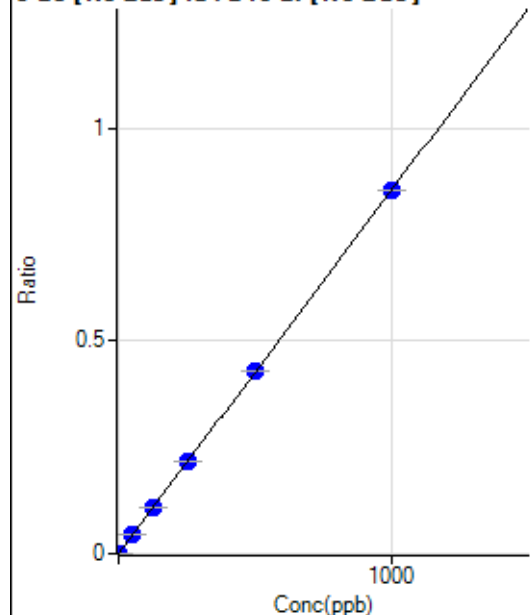


Batch Folder: C:\Agilent\ICPMH\1\DATA\P7101621 MS.b\  
Analysis File: P7101621 MS.batch.bin  
DA Date-Time: 2021-11-03 16:33:35  
Calibration Title:  
Calibration Method: External Calibration  
VIS Interpolation Fit:

| Level | Standard Data File | Sample Name | Acq. Date-Time      |
|-------|--------------------|-------------|---------------------|
| 1     | 004CALB.d          | S00         | 2021-10-16 12:56:20 |
| 2     | 006CALS.d          | S02         | 2021-10-16 13:02:40 |
| 3     | 007CALS.d          | S03         | 2021-10-16 13:05:50 |
| 4     | 008CALS.d          | S04         | 2021-10-16 13:09:00 |
| 5     | 009CALS.d          | S05         | 2021-10-16 13:12:08 |
| 6     | 010CALS.d          | S06         | 2021-10-16 13:15:13 |
| 7     | 011CALS.d          | S07         | 2021-10-16 13:18:14 |
| 8     | 012CALS.d          | S08         | 2021-10-16 13:21:14 |

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 41.11      | 0.0000 | P   | 25.3 |
| 2 | <input type="checkbox"/> | 1.000    | 1.041      | 2111.28    | 0.0009 | P   | 3.4  |
| 3 | <input type="checkbox"/> | 50.000   | 51.992     | 101806.34  | 0.0444 | P   | 0.9  |
| 4 | <input type="checkbox"/> | 125.000  | 126.906    | 242375.07  | 0.1083 | P   | 0.3  |
| 5 | <input type="checkbox"/> | 250.000  | 252.258    | 456008.09  | 0.2153 | P   | 0.5  |
| 6 | <input type="checkbox"/> | 500.000  | 501.854    | 869969.44  | 0.4284 | P   | 0.6  |
| 7 | <input type="checkbox"/> | 1000.000 | 998.171    | 1720566.57 | 0.8520 | P   | 0.1  |
| 8 | <input type="checkbox"/> |          |            | 555.57     | 0.0003 | P   | 10.5 |

$$y = 8.5355\text{E-}004 * x + 1.7747\text{E-}005$$

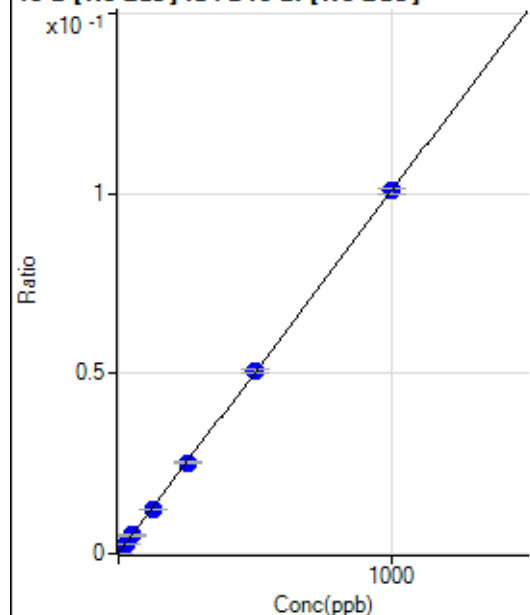
$$R = 1.0000$$

$$DL = 0.01577$$

$$BEC = 0.02079$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS       | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-----------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 433.58    | 0.0002 | P   | 16.9 |
| 2 | <input type="checkbox"/> | 25.000   | 22.493     | 5707.25   | 0.0024 | P   | 2.3  |
| 3 | <input type="checkbox"/> | 50.000   | 49.613     | 11869.94  | 0.0052 | P   | 4.2  |
| 4 | <input type="checkbox"/> | 125.000  | 120.480    | 27517.25  | 0.0123 | P   | 3.9  |
| 5 | <input type="checkbox"/> | 250.000  | 248.697    | 53349.25  | 0.0252 | P   | 2.7  |
| 6 | <input type="checkbox"/> | 500.000  | 501.685    | 102828.74 | 0.0506 | P   | 2.0  |
| 7 | <input type="checkbox"/> | 1000.000 | 1000.130   | 203484.17 | 0.1008 | P   | 1.8  |
| 8 | <input type="checkbox"/> |          |            | 5370.83   | 0.0027 | P   | 14.3 |

$$y = 1.0056\text{E-}004 * x + 1.8709\text{E-}004$$

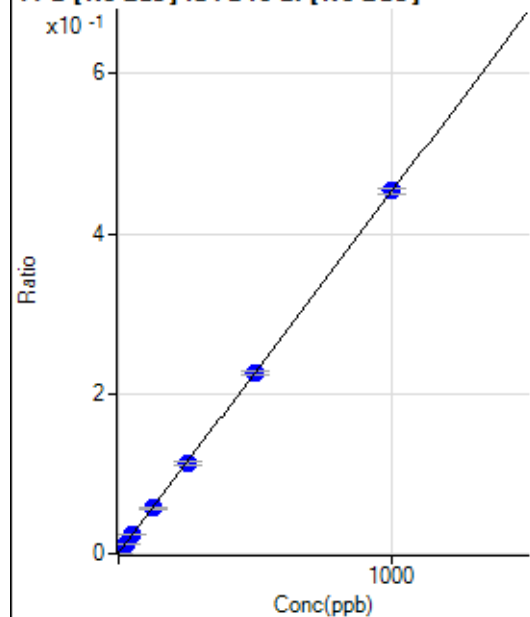
$$R = 1.0000$$

$$DL = 0.9419$$

$$BEC = 1.86$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS       | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-----------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 2077.97   | 0.0009 | P    | 3.4  |
| 2 | <input type="checkbox"/> | 25.000   | 23.832     | 27161.03  | 0.0117 | P    | 2.8  |
| 3 | <input type="checkbox"/> | 50.000   | 50.632     | 54470.58  | 0.0238 | P    | 2.3  |
| 4 | <input type="checkbox"/> | 125.000  | 123.526    | 126737.13 | 0.0567 | P    | 3.2  |
| 5 | <input type="checkbox"/> | 250.000  | 249.005    | 239899.97 | 0.1133 | P    | 3.0  |
| 6 | <input type="checkbox"/> | 500.000  | 496.427    | 456906.53 | 0.2250 | P    | 2.2  |
| 7 | <input type="checkbox"/> | 1000.000 | 1002.217   | 915498.11 | 0.4533 | P    | 1.9  |
| 8 | <input type="checkbox"/> |          |            | 26409.81  | 0.0131 | P    | 10.6 |

$$y = 4.5145\text{E-}004 * x + 8.9617\text{E-}004$$

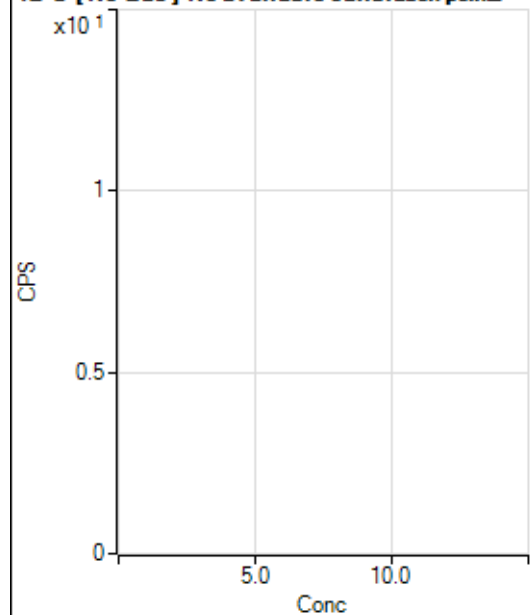
$$R = 1.0000$$

$$DL = 0.2019$$

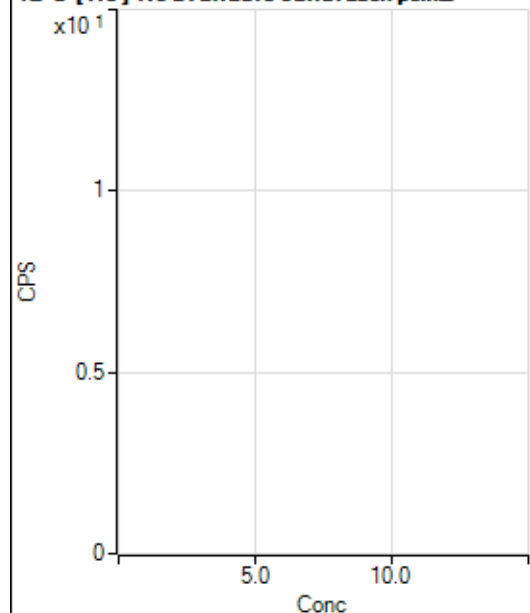
$$BEC = 1.985$$

Weight: &lt;None&gt;

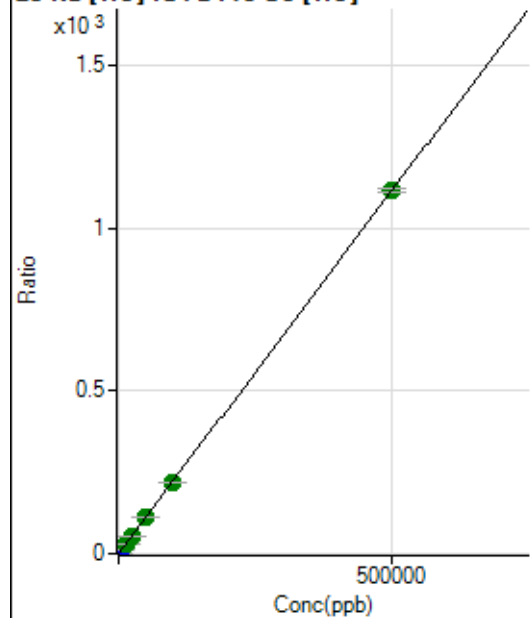
Min Conc: 0

**12 C [No Gas] No available calibration points**

|   | R <sub>j</sub><br>ct     | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|--------------------------|-------|------------|-----|-------|------|-----|
| 1 | <input type="checkbox"/> |       |            |     |       |      |     |
| 2 | <input type="checkbox"/> |       |            |     |       |      |     |
| 3 | <input type="checkbox"/> |       |            |     |       |      |     |
| 4 | <input type="checkbox"/> |       |            |     |       |      |     |
| 5 | <input type="checkbox"/> |       |            |     |       |      |     |
| 6 | <input type="checkbox"/> |       |            |     |       |      |     |
| 7 | <input type="checkbox"/> |       |            |     |       |      |     |
| 8 | <input type="checkbox"/> |       |            |     |       |      |     |

**12 C [He] No available calibration points**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-----|-------|----------|-----|
| 1 | <input type="checkbox"/> |       |            |     |       |          |     |
| 2 | <input type="checkbox"/> |       |            |     |       |          |     |
| 3 | <input type="checkbox"/> |       |            |     |       |          |     |
| 4 | <input type="checkbox"/> |       |            |     |       |          |     |
| 5 | <input type="checkbox"/> |       |            |     |       |          |     |
| 6 | <input type="checkbox"/> |       |            |     |       |          |     |
| 7 | <input type="checkbox"/> |       |            |     |       |          |     |
| 8 | <input type="checkbox"/> |       |            |     |       |          |     |

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio     | Det<br>. | RSD |
|---|--------------------------|-----------|------------|-------------|-----------|----------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 12622.12    | 0.0421    | P        | 0.8 |
| 2 | <input type="checkbox"/> | 500.000   | 474.799    | 330206.57   | 1.1005    | P        | 0.8 |
| 3 | <input type="checkbox"/> | 5000.000  | 5022.322   | 3256895.47  | 11.2379   | P        | 0.3 |
| 4 | <input type="checkbox"/> | 12500.000 | 12411.936  | 7659069.96  | 27.7108   | A        | 0.9 |
| 5 | <input type="checkbox"/> | 25000.000 | 24788.858  | 14715586.90 | 55.3016   | A        | 0.5 |
| 6 | <input type="checkbox"/> | 50000.000 | 49908.726  | 28868975.18 | 111.2989  | A        | 0.7 |
| 7 | <input type="checkbox"/> | 100000.00 | 98766.980  | 58275148.99 | 220.2141  | A        | 0.8 |
| 8 | <input type="checkbox"/> | 500000.00 | 500268.29  | 304690010.5 | 1,115.243 | A        | 0.9 |

$$y = 0.0022 * x + 0.0421$$

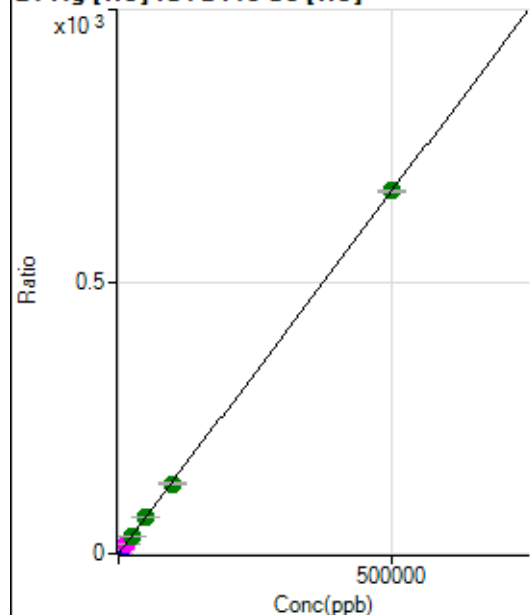
$$R = 1.0000$$

$$DL = 0.4396$$

$$BEC = 18.87$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS         | Ratio    | Det | RSD  |
|---|--------------------------|-----------|------------|-------------|----------|-----|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 238.89      | 0.0008   | P   | 22.9 |
| 2 | <input type="checkbox"/> | 500.000   | 466.519    | 186916.07   | 0.6229   | P   | 0.4  |
| 3 | <input type="checkbox"/> | 5000.000  | 4999.049   | 1932291.71  | 6.6673   | P   | 0.2  |
| 4 | <input type="checkbox"/> | 12500.000 | 12455.540  | 4590929.56  | 16.6110  | M   | 1.7  |
| 5 | <input type="checkbox"/> | 25000.000 | 24814.493  | 8805752.68  | 33.0924  | A   | 1.1  |
| 6 | <input type="checkbox"/> | 50000.000 | 49415.932  | 17093035.80 | 65.9000  | A   | 0.4  |
| 7 | <input type="checkbox"/> | 100000.00 | 96691.453  | 34122312.57 | 128.9448 | A   | 1.1  |
| 8 | <input type="checkbox"/> | 500000.00 | 500730.54  | 182439433.7 | 667.7557 | A   | 0.8  |

$$y = 0.0013 * x + 7.9709E-004$$

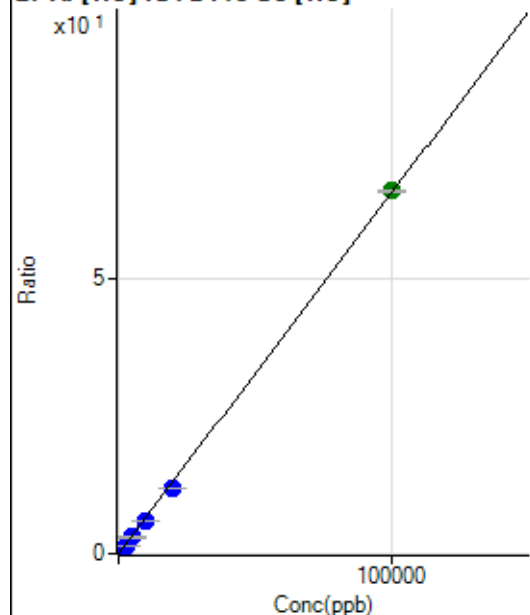
$$R = 1.0000$$

$$DL = 0.4099$$

$$BEC = 0.5977$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS         | Ratio   | Det | RSD  |
|---|--------------------------|-----------|------------|-------------|---------|-----|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 144.45      | 0.0005  | P   | 34.7 |
| 2 | <input type="checkbox"/> | 20.000    | 19.163     | 3924.64     | 0.0131  | P   | 4.5  |
| 3 | <input type="checkbox"/> | 1000.000  | 944.002    | 180058.41   | 0.6213  | P   | 0.7  |
| 4 | <input type="checkbox"/> | 2500.000  | 2307.660   | 419578.60   | 1.5181  | P   | 1.1  |
| 5 | <input type="checkbox"/> | 5000.000  | 4541.376   | 794828.83   | 2.9871  | P   | 1.0  |
| 6 | <input type="checkbox"/> | 10000.000 | 9112.572   | 1554517.03  | 5.9932  | P   | 0.3  |
| 7 | <input type="checkbox"/> | 20000.000 | 18000.360  | 3132734.27  | 11.8382 | P   | 0.7  |
| 8 | <input type="checkbox"/> | 100000.00 | 100516.97  | 18060627.72 | 66.1041 | A   | 0.8  |

$$y = 6.5764E-004 * x + 4.8101E-004$$

$$R = 0.9998$$

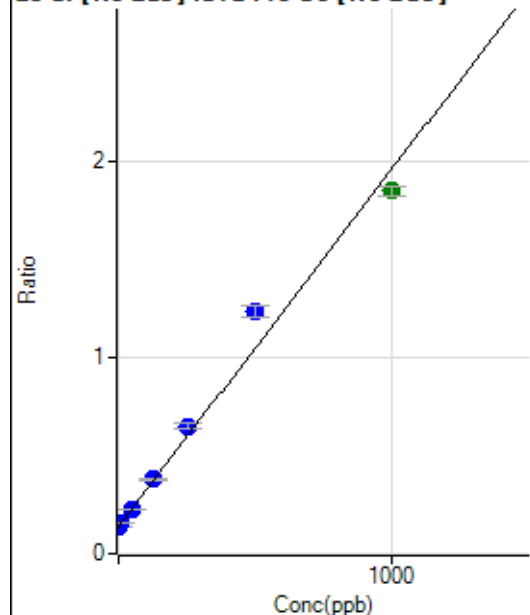
$$DL = 0.7613$$

$$BEC = 0.7314$$

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      | 464231.55  | 0.1390 | P   | 0.7 |
| 2 | <input type="checkbox"/> | 10.000   | 7.790      | 513930.64  | 0.1532 | P   | 0.3 |
| 3 | <input type="checkbox"/> | 50.000   | 49.848     | 755976.92  | 0.2297 | P   | 0.4 |
| 4 | <input type="checkbox"/> | 125.000  | 131.991    | 1213556.95 | 0.3793 | P   | 3.7 |
| 5 | <input type="checkbox"/> | 250.000  | 279.931    | 1962497.44 | 0.6487 | P   | 4.7 |
| 6 | <input type="checkbox"/> | 500.000  | 603.041    | 3584755.25 | 1.2369 | P   | 5.2 |
| 7 | <input type="checkbox"/> | 1000.000 | 940.152    | 5387463.01 | 1.8507 | A   | 2.4 |
| 8 | <input type="checkbox"/> |          |            | 610239.94  | 0.2044 | P   | 1.4 |

$$y = 0.0018 * x + 0.1390$$

$$R = 0.9910$$

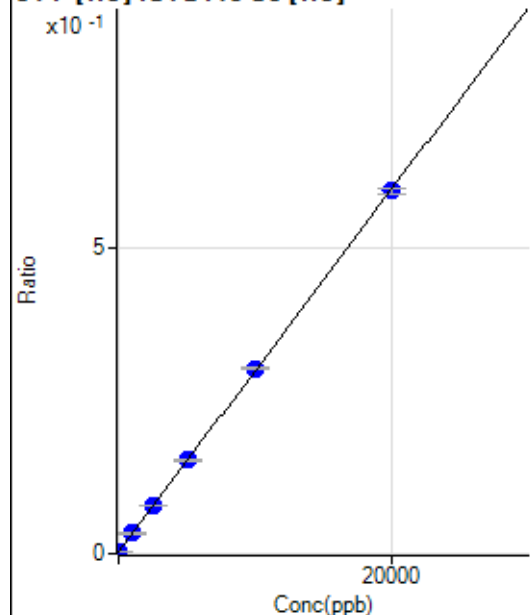
$$DL = 1.561$$

$$BEC = 76.33$$

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     | 1.487      | 827.82    | 0.0028 | P   | 25.5 |
| 2 | <input type="checkbox"/> | 0.000     | -1.487     | 800.04    | 0.0027 | P   | 11.6 |
| 3 | <input type="checkbox"/> | 1000.000  | 1031.090   | 9653.42   | 0.0333 | P   | 4.7  |
| 4 | <input type="checkbox"/> | 2500.000  | 2588.111   | 21977.72  | 0.0795 | P   | 1.0  |
| 5 | <input type="checkbox"/> | 5000.000  | 5058.160   | 40666.75  | 0.1528 | P   | 1.1  |
| 6 | <input type="checkbox"/> | 10000.000 | 10113.053  | 78542.37  | 0.3028 | P   | 1.1  |
| 7 | <input type="checkbox"/> | 20000.000 | 19916.365  | 157118.28 | 0.5937 | P   | 1.6  |
| 8 | <input type="checkbox"/> |           |            | 836.15    | 0.0031 | P   | 4.7  |

$$y = 2.9676E-005 * x + 0.0027$$

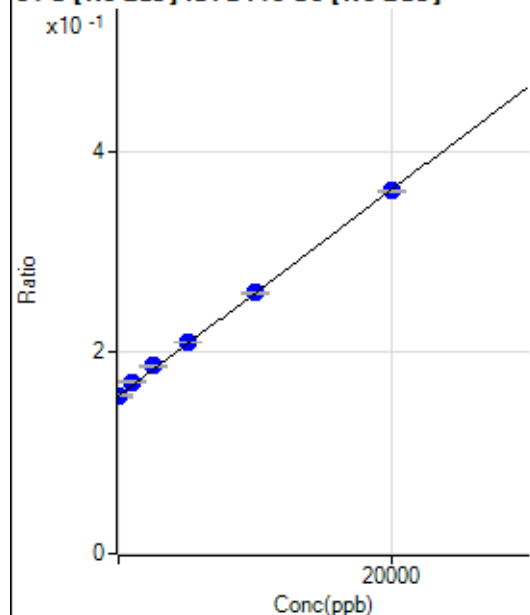
$$R = 1.0000$$

$$DL = 51.15$$

$$BEC = 91.4$$

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     | -57.802    | 522362.34  | 0.1564 | P   | 1.3 |
| 2 | <input type="checkbox"/> | 0.000     | 57.802     | 528728.99  | 0.1576 | P   | 0.4 |
| 3 | <input type="checkbox"/> | 1000.000  | 1363.729   | 562613.97  | 0.1710 | P   | 1.4 |
| 4 | <input type="checkbox"/> | 2500.000  | 2933.896   | 598749.91  | 0.1871 | P   | 0.6 |
| 5 | <input type="checkbox"/> | 5000.000  | 5224.883   | 637356.09  | 0.2106 | P   | 0.6 |
| 6 | <input type="checkbox"/> | 10000.000 | 10003.031  | 752587.56  | 0.2596 | P   | 0.6 |
| 7 | <input type="checkbox"/> | 20000.000 | 19869.840  | 1050500.08 | 0.3609 | P   | 0.7 |
| 8 | <input type="checkbox"/> |           |            | 431519.54  | 0.1445 | P   | 0.6 |

$$y = 1.0262\text{E-}005 * x + 0.1570$$

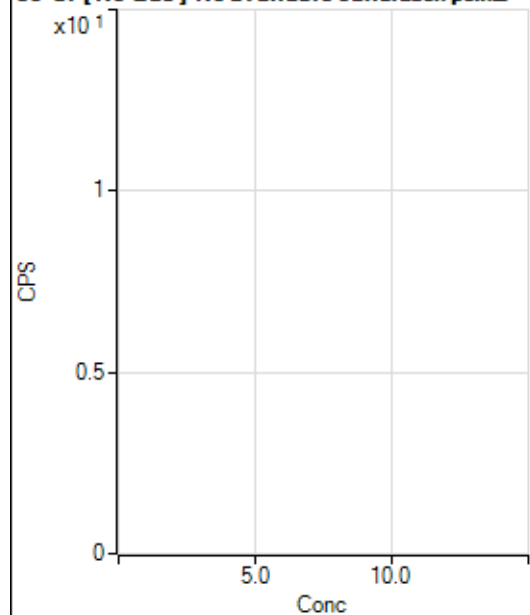
$$R = 0.9997$$

$$DL = 380$$

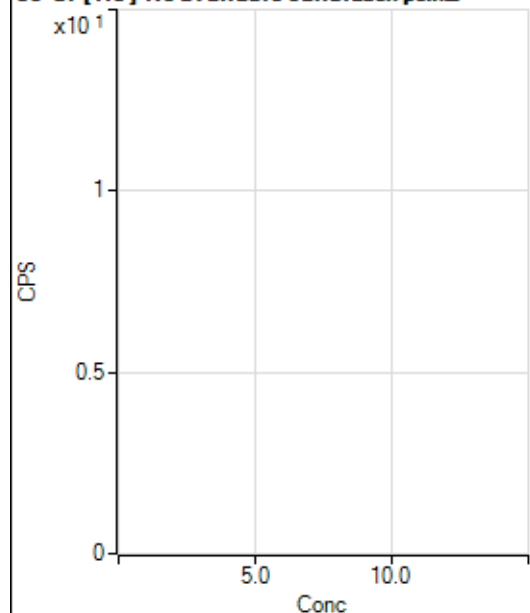
$$BEC = 1.53\text{E}+04$$

Weight: &lt;None&gt;

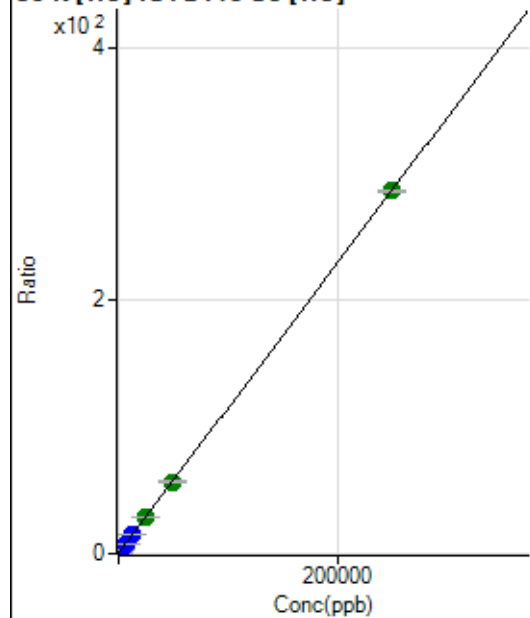
Min Conc: 0

**35 Cl [No Gas] No available calibration points**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS | Ratio | Det | RSD |
|---|--------------------------|-------|------------|-----|-------|-----|-----|
| 1 | <input type="checkbox"/> |       |            |     |       |     |     |
| 2 | <input type="checkbox"/> |       |            |     |       |     |     |
| 3 | <input type="checkbox"/> |       |            |     |       |     |     |
| 4 | <input type="checkbox"/> |       |            |     |       |     |     |
| 5 | <input type="checkbox"/> |       |            |     |       |     |     |
| 6 | <input type="checkbox"/> |       |            |     |       |     |     |
| 7 | <input type="checkbox"/> |       |            |     |       |     |     |
| 8 | <input type="checkbox"/> |       |            |     |       |     |     |

**35 Cl [He] No available calibration points**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-----|-------|----------|-----|
| 1 | <input type="checkbox"/> |       |            |     |       |          |     |
| 2 | <input type="checkbox"/> |       |            |     |       |          |     |
| 3 | <input type="checkbox"/> |       |            |     |       |          |     |
| 4 | <input type="checkbox"/> |       |            |     |       |          |     |
| 5 | <input type="checkbox"/> |       |            |     |       |          |     |
| 6 | <input type="checkbox"/> |       |            |     |       |          |     |
| 7 | <input type="checkbox"/> |       |            |     |       |          |     |
| 8 | <input type="checkbox"/> |       |            |     |       |          |     |

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio    | Det<br>. | RSD |
|---|--------------------------|-----------|------------|-------------|----------|----------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 75527.73    | 0.2517   | P        | 1.6 |
| 2 | <input type="checkbox"/> | 500.000   | 506.479    | 249452.29   | 0.8313   | P        | 0.4 |
| 3 | <input type="checkbox"/> | 2500.000  | 2715.938   | 973780.56   | 3.3600   | P        | 0.4 |
| 4 | <input type="checkbox"/> | 6250.000  | 6671.504   | 2179940.02  | 7.8870   | P        | 0.6 |
| 5 | <input type="checkbox"/> | 12500.000 | 13223.041  | 4093854.21  | 15.3850  | P        | 0.7 |
| 6 | <input type="checkbox"/> | 25000.000 | 24862.349  | 7445585.84  | 28.7057  | A        | 0.4 |
| 7 | <input type="checkbox"/> | 50000.000 | 49455.264  | 15044230.55 | 56.8514  | A        | 1.7 |
| 8 | <input type="checkbox"/> | 250000.00 | 250073.85  | 78266180.22 | 286.4517 | A        | 0.4 |

$$y = 0.0011 * x + 0.2517$$

$$R = 1.0000$$

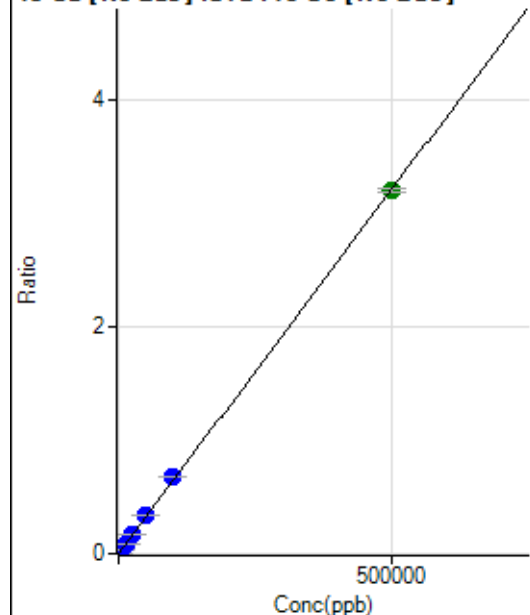
$$DL = 10.84$$

$$BEC = 219.9$$

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      | 180.56     | 0.0001 | P    | 25.1 |
| 2 | <input type="checkbox"/> | 500.000   | 501.017    | 10962.67   | 0.0033 | P    | 1.6  |
| 3 | <input type="checkbox"/> | 5000.000  | 5387.467   | 113870.87  | 0.0346 | P    | 0.5  |
| 4 | <input type="checkbox"/> | 12500.000 | 13172.121  | 270507.52  | 0.0845 | P    | 0.8  |
| 5 | <input type="checkbox"/> | 25000.000 | 26381.599  | 512176.10  | 0.1692 | P    | 0.7  |
| 6 | <input type="checkbox"/> | 50000.000 | 52722.591  | 980255.02  | 0.3382 | P    | 0.3  |
| 7 | <input type="checkbox"/> | 100000.00 | 106781.04  | 1993602.60 | 0.6849 | P    | 0.2  |
| 8 | <input type="checkbox"/> | 500000.00 | 498281.77  | 9542215.15 | 3.1956 | A    | 1.0  |

$$y = 6.4132\text{E-}006 * x + 5.4025\text{E-}005$$

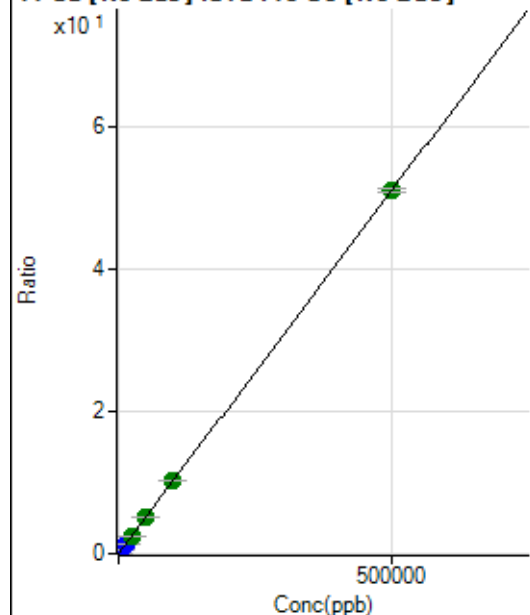
$$R = 0.9999$$

$$DL = 6.338$$

$$BEC = 8.424$$

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      | 10392.81    | 0.0031  | P    | 5.9 |
| 2 | <input type="checkbox"/> | 500.000   | 508.637    | 184375.41   | 0.0549  | P    | 1.1 |
| 3 | <input type="checkbox"/> | 5000.000  | 5363.743   | 1808940.62  | 0.5497  | P    | 0.2 |
| 4 | <input type="checkbox"/> | 12500.000 | 13200.012  | 4315024.23  | 1.3483  | P    | 0.3 |
| 5 | <input type="checkbox"/> | 25000.000 | 24676.989  | 7620129.08  | 2.5179  | A    | 0.4 |
| 6 | <input type="checkbox"/> | 50000.000 | 49748.854  | 14704972.72 | 5.0730  | A    | 0.1 |
| 7 | <input type="checkbox"/> | 100000.00 | 100593.54  | 29850601.01 | 10.2545 | A    | 0.8 |
| 8 | <input type="checkbox"/> | 500000.00 | 499901.40  | 152129163.1 | 50.9476 | A    | 1.1 |

$$y = 1.0191\text{E-}004 * x + 0.0031$$

$$R = 1.0000$$

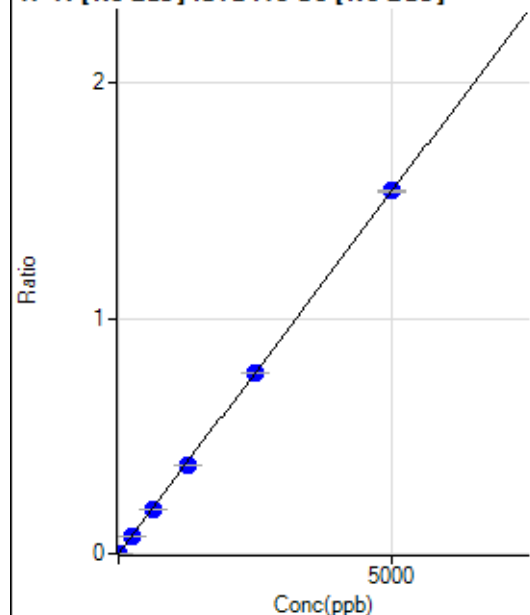
$$DL = 5.409$$

$$BEC = 30.54$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 69.45      | 0.0000 | P   | 39.2 |
| 2 | <input type="checkbox"/> | 5.000    | 4.991      | 5223.29    | 0.0016 | P   | 2.7  |
| 3 | <input type="checkbox"/> | 250.000  | 251.338    | 254582.35  | 0.0774 | P   | 0.5  |
| 4 | <input type="checkbox"/> | 625.000  | 616.951    | 607677.43  | 0.1899 | P   | 0.3  |
| 5 | <input type="checkbox"/> | 1250.000 | 1230.282   | 1145846.30 | 0.3786 | P   | 0.0  |
| 6 | <input type="checkbox"/> | 2500.000 | 2492.200   | 2223173.90 | 0.7670 | P   | 0.1  |
| 7 | <input type="checkbox"/> | 5000.000 | 5009.769   | 4487818.46 | 1.5417 | P   | 0.3  |
| 8 | <input type="checkbox"/> |          |            | 1022.28    | 0.0003 | P   | 3.4  |

$$y = 3.0773\text{E-}004 * x + 2.0818\text{E-}005$$

$$R = 1.0000$$

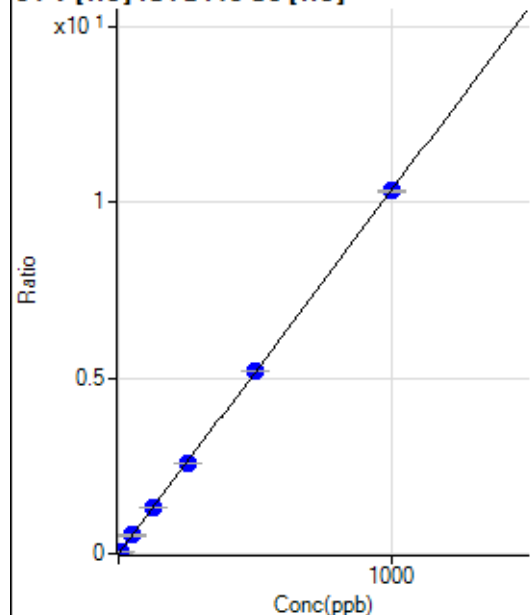
$$DL = 0.07946$$

$$BEC = 0.06765$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio   | Det | RSD  |
|---|--------------------------|----------|------------|------------|---------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 13.33      | 0.0000  | P   | 49.5 |
| 2 | <input type="checkbox"/> | 5.000    | 5.006      | 15539.39   | 0.0518  | P   | 0.1  |
| 3 | <input type="checkbox"/> | 50.000   | 50.360     | 150854.51  | 0.5205  | P   | 0.9  |
| 4 | <input type="checkbox"/> | 125.000  | 125.627    | 358874.66  | 1.2984  | P   | 1.0  |
| 5 | <input type="checkbox"/> | 250.000  | 249.254    | 685486.53  | 2.5761  | P   | 0.5  |
| 6 | <input type="checkbox"/> | 500.000  | 503.497    | 1349692.48 | 5.2037  | P   | 0.4  |
| 7 | <input type="checkbox"/> | 1000.000 | 998.341    | 2730414.23 | 10.3179 | P   | 0.9  |
| 8 | <input type="checkbox"/> |          |            | 726.69     | 0.0027  | P   | 7.9  |

$$y = 0.0103 * x + 4.4414\text{E-}005$$

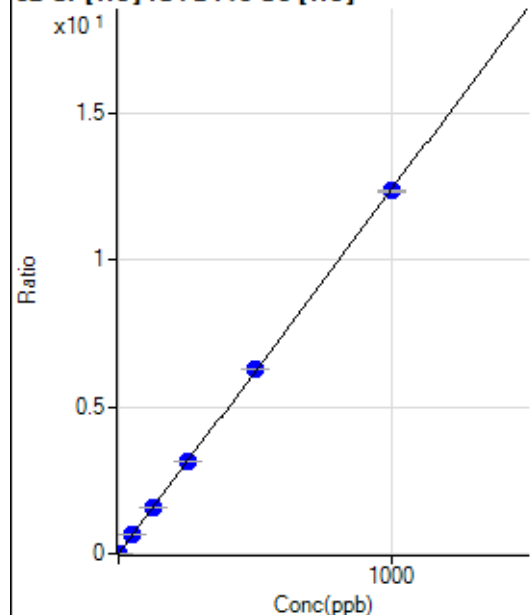
$$R = 1.0000$$

$$DL = 0.006386$$

$$BEC = 0.004297$$

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      | 1215.62    | 0.0041  | P   | 2.2 |
| 2 | <input type="checkbox"/> | 2.000    | 2.044      | 8813.83    | 0.0294  | P   | 1.4 |
| 3 | <input type="checkbox"/> | 50.000   | 51.541     | 186210.66  | 0.6425  | P   | 0.6 |
| 4 | <input type="checkbox"/> | 125.000  | 127.476    | 437580.47  | 1.5831  | P   | 0.3 |
| 5 | <input type="checkbox"/> | 250.000  | 252.150    | 832234.09  | 3.1275  | P   | 0.4 |
| 6 | <input type="checkbox"/> | 500.000  | 505.762    | 1626045.79 | 6.2691  | P   | 0.4 |
| 7 | <input type="checkbox"/> | 1000.000 | 996.195    | 3266683.18 | 12.3443 | P   | 0.5 |
| 8 | <input type="checkbox"/> |          |            | 9287.44    | 0.0340  | P   | 1.8 |

$$y = 0.0124 * x + 0.0041$$

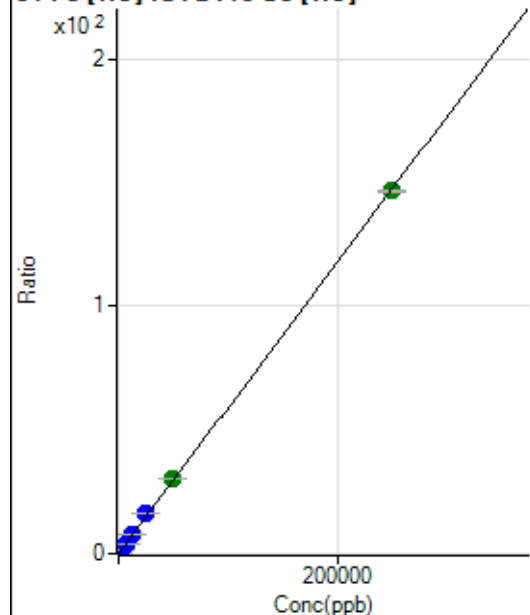
$$R = 1.0000$$

$$DL = 0.02127$$

$$BEC = 0.3271$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio    | Det | RSD |
|---|--------------------------|-----------|------------|-------------|----------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 1394.84     | 0.0047   | P   | 6.1 |
| 2 | <input type="checkbox"/> | 50.000    | 54.701     | 11058.83    | 0.0369   | P   | 3.0 |
| 3 | <input type="checkbox"/> | 2500.000  | 2760.678   | 472410.45   | 1.6300   | P   | 0.7 |
| 4 | <input type="checkbox"/> | 6250.000  | 6839.590   | 1114307.85  | 4.0316   | P   | 0.7 |
| 5 | <input type="checkbox"/> | 12500.000 | 13568.612  | 2126920.05  | 7.9934   | P   | 1.5 |
| 6 | <input type="checkbox"/> | 25000.000 | 27227.516  | 4159167.04  | 16.0353  | P   | 0.2 |
| 7 | <input type="checkbox"/> | 50000.000 | 51877.132  | 8083972.23  | 30.5482  | A   | 0.8 |
| 8 | <input type="checkbox"/> | 250000.00 | 249331.04  | 40108212.22 | 146.8023 | A   | 0.8 |

$$y = 5.8877E-004 * x + 0.0047$$

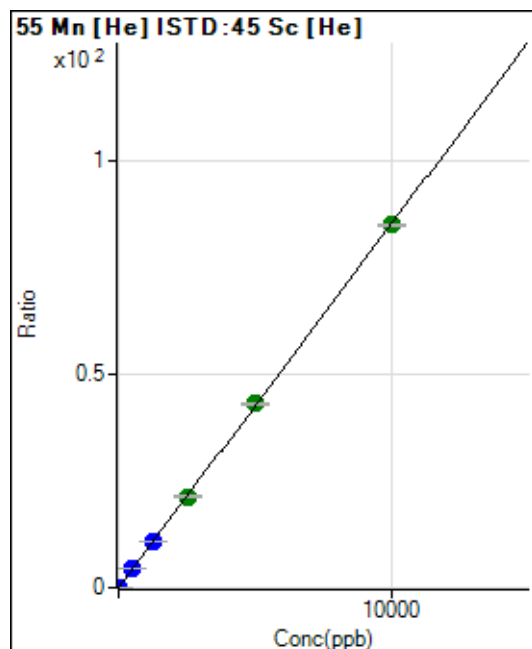
$$R = 0.9999$$

$$DL = 1.434$$

$$BEC = 7.899$$

Weight: &lt;None&gt;

Min Conc: 0



|   | R <sub>ct</sub>          | Conc.     | Calc Conc. | CPS         | Ratio   | Det. | RSD |
|---|--------------------------|-----------|------------|-------------|---------|------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 251.12      | 0.0008  | P    | 7.9 |
| 2 | <input type="checkbox"/> | 1.000     | 0.998      | 2803.63     | 0.0093  | P    | 4.2 |
| 3 | <input type="checkbox"/> | 500.000   | 506.424    | 1251569.50  | 4.3185  | P    | 0.6 |
| 4 | <input type="checkbox"/> | 1250.000  | 1262.444   | 2975159.85  | 10.7641 | P    | 0.6 |
| 5 | <input type="checkbox"/> | 2500.000  | 2503.602   | 5680004.43  | 21.3459 | A    | 0.8 |
| 6 | <input type="checkbox"/> | 5000.000  | 5057.885   | 11184814.97 | 43.1230 | A    | 1.1 |
| 7 | <input type="checkbox"/> | 10000.000 | 9968.281   | 22490995.77 | 84.9878 | A    | 0.4 |
| 8 | <input type="checkbox"/> |           |            | 35267.75    | 0.1291  | P    | 0.9 |

$$y = 0.0085 * x + 8.3734E-004$$

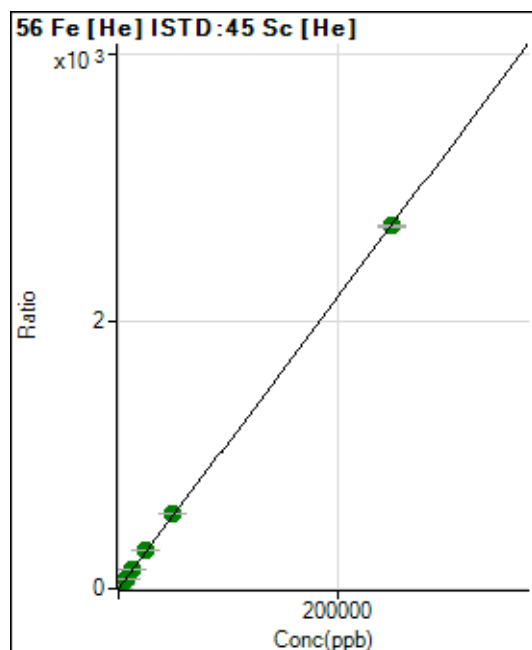
$$R = 1.0000$$

$$DL = 0.02328$$

$$BEC = 0.09821$$

Weight: <None>

Min Conc: 0



|   | R <sub>ct</sub>          | Conc.     | Calc Conc. | CPS         | Ratio    | Det. | RSD |
|---|--------------------------|-----------|------------|-------------|----------|------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 7435.31     | 0.0248   | P    | 5.3 |
| 2 | <input type="checkbox"/> | 50.000    | 52.128     | 177862.45   | 0.5928   | P    | 2.3 |
| 3 | <input type="checkbox"/> | 2500.000  | 2622.789   | 8290521.13  | 28.6060  | A    | 0.7 |
| 4 | <input type="checkbox"/> | 6250.000  | 6480.427   | 19525619.19 | 70.6438  | A    | 0.7 |
| 5 | <input type="checkbox"/> | 12500.000 | 12921.611  | 37473720.75 | 140.8351 | A    | 1.9 |
| 6 | <input type="checkbox"/> | 25000.000 | 26031.716  | 73582636.83 | 283.6996 | A    | 0.8 |
| 7 | <input type="checkbox"/> | 50000.000 | 51576.710  | 148743664.4 | 562.0704 | A    | 0.4 |
| 8 | <input type="checkbox"/> | 250000.00 | 249553.41  | 742994801.7 | 2.719477 | A    | 0.7 |

$$y = 0.0109 * x + 0.0248$$

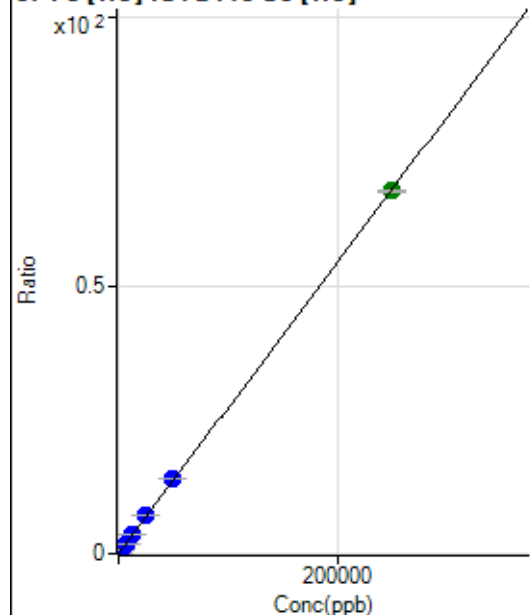
$$R = 1.0000$$

$$DL = 0.3587$$

$$BEC = 2.275$$

Weight: <None>

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS         | Ratio   | Det | RSD  |
|---|--------------------------|-----------|------------|-------------|---------|-----|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 375.94      | 0.0013  | P   | 14.2 |
| 2 | <input type="checkbox"/> | 50.000    | 51.997     | 4608.21     | 0.0154  | P   | 2.3  |
| 3 | <input type="checkbox"/> | 2500.000  | 2648.117   | 208581.68   | 0.7197  | P   | 0.6  |
| 4 | <input type="checkbox"/> | 6250.000  | 6552.531   | 491706.12   | 1.7790  | P   | 1.0  |
| 5 | <input type="checkbox"/> | 12500.000 | 13010.634  | 939620.71   | 3.5312  | P   | 0.7  |
| 6 | <input type="checkbox"/> | 25000.000 | 26163.660  | 1841489.22  | 7.0997  | P   | 0.2  |
| 7 | <input type="checkbox"/> | 50000.000 | 51579.009  | 3703546.18  | 13.9951 | P   | 0.5  |
| 8 | <input type="checkbox"/> | 250000.00 | 249533.25  | 18496836.76 | 67.7019 | A   | 0.7  |

$$y = 2.7131E-004 * x + 0.0013$$

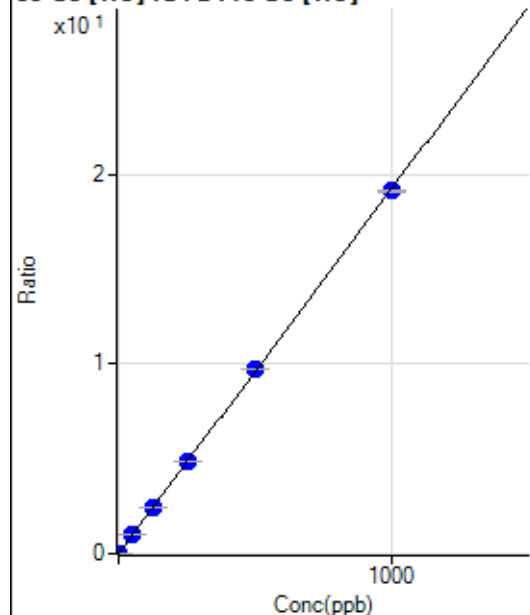
$$R = 1.0000$$

$$DL = 1.972$$

$$BEC = 4.616$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio   | Det | RSD  |
|---|--------------------------|----------|------------|------------|---------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 53.33      | 0.0002  | P   | 17.8 |
| 2 | <input type="checkbox"/> | 1.000    | 1.011      | 5890.12    | 0.0196  | P   | 3.3  |
| 3 | <input type="checkbox"/> | 50.000   | 51.919     | 289495.99  | 0.9989  | P   | 0.2  |
| 4 | <input type="checkbox"/> | 125.000  | 128.479    | 683140.93  | 2.4716  | P   | 0.8  |
| 5 | <input type="checkbox"/> | 250.000  | 253.570    | 1298000.62 | 4.8779  | P   | 0.5  |
| 6 | <input type="checkbox"/> | 500.000  | 507.702    | 2533197.58 | 9.7664  | P   | 0.1  |
| 7 | <input type="checkbox"/> | 1000.000 | 994.726    | 5063710.48 | 19.1350 | P   | 0.7  |
| 8 | <input type="checkbox"/> |          |            | 13545.20   | 0.0496  | P   | 1.5  |

$$y = 0.0192 * x + 1.7751E-004$$

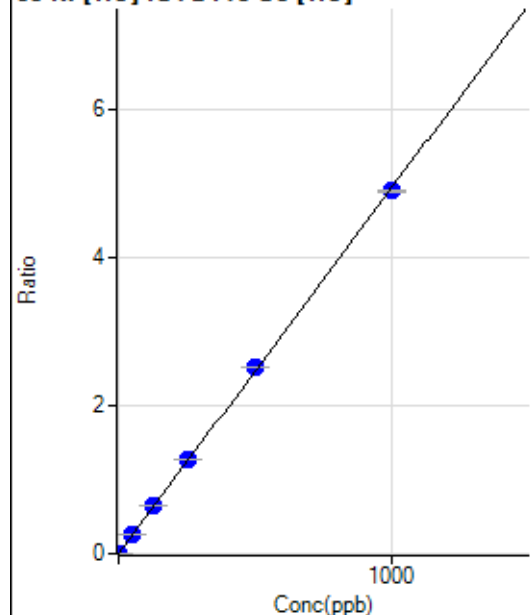
$$R = 0.9999$$

$$DL = 0.004917$$

$$BEC = 0.009228$$

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      | 128.89     | 0.0004 | P   | 10.0 |
| 2 | <input type="checkbox"/> | 1.000    | 1.079      | 1730.12    | 0.0058 | P   | 2.1  |
| 3 | <input type="checkbox"/> | 50.000   | 52.763     | 75766.36   | 0.2614 | P   | 1.2  |
| 4 | <input type="checkbox"/> | 125.000  | 130.775    | 178921.64  | 0.6473 | P   | 0.9  |
| 5 | <input type="checkbox"/> | 250.000  | 255.948    | 337016.85  | 1.2665 | P   | 0.5  |
| 6 | <input type="checkbox"/> | 500.000  | 510.202    | 654722.55  | 2.5242 | P   | 0.2  |
| 7 | <input type="checkbox"/> | 1000.000 | 992.552    | 1299406.23 | 4.9103 | P   | 0.8  |
| 8 | <input type="checkbox"/> |          |            | 4806.38    | 0.0176 | P   | 4.7  |

$$y = 0.0049 * x + 4.2979E-004$$

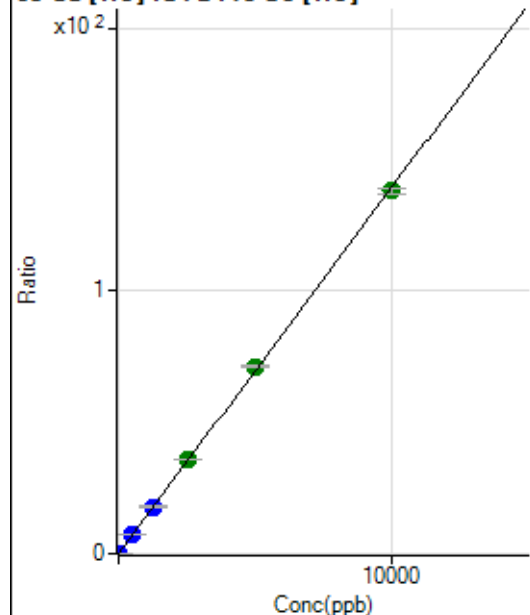
$$R = 0.9999$$

$$DL = 0.026$$

$$BEC = 0.08689$$

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      | 964.49      | 0.0032   | P   | 8.0 |
| 2 | <input type="checkbox"/> | 2.000     | 1.859      | 8734.91     | 0.0291   | P   | 3.1 |
| 3 | <input type="checkbox"/> | 500.000   | 519.768    | 2099096.64  | 7.2429   | P   | 0.5 |
| 4 | <input type="checkbox"/> | 1250.000  | 1284.688   | 4946706.80  | 17.8972  | P   | 0.7 |
| 5 | <input type="checkbox"/> | 2500.000  | 2576.939   | 9551949.86  | 35.8965  | A   | 0.6 |
| 6 | <input type="checkbox"/> | 5000.000  | 5121.279   | 18502510.42 | 71.3358  | A   | 0.9 |
| 7 | <input type="checkbox"/> | 10000.000 | 9914.801   | 36545630.29 | 138.1032 | A   | 1.4 |
| 8 | <input type="checkbox"/> |           |            | 13080.38    | 0.0479   | P   | 3.2 |

$$y = 0.0139 * x + 0.0032$$

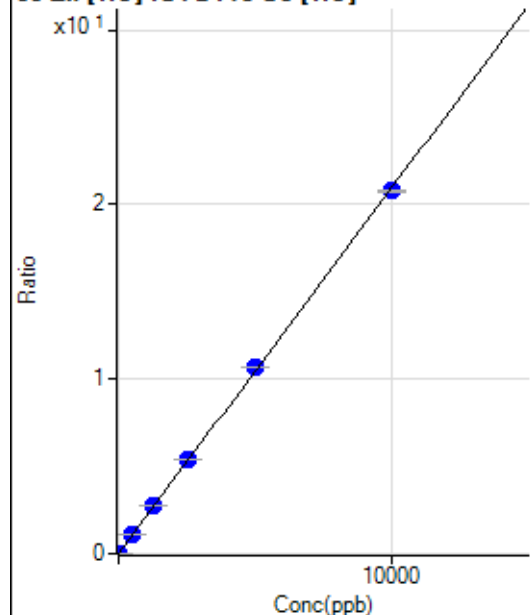
$$R = 0.9999$$

$$DL = 0.05518$$

$$BEC = 0.2307$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS        | Ratio   | Det | RSD |
|---|--------------------------|-----------|------------|------------|---------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 722.25     | 0.0024  | P   | 2.5 |
| 2 | <input type="checkbox"/> | 2.000     | 2.499      | 2292.42    | 0.0076  | P   | 4.0 |
| 3 | <input type="checkbox"/> | 500.000   | 525.173    | 319452.73  | 1.1023  | P   | 0.3 |
| 4 | <input type="checkbox"/> | 1250.000  | 1295.923   | 750804.92  | 2.7164  | P   | 0.7 |
| 5 | <input type="checkbox"/> | 2500.000  | 2563.552   | 1429255.64 | 5.3712  | P   | 0.5 |
| 6 | <input type="checkbox"/> | 5000.000  | 5102.744   | 2772437.08 | 10.6889 | P   | 0.3 |
| 7 | <input type="checkbox"/> | 10000.000 | 9925.740   | 5501531.44 | 20.7896 | P   | 0.8 |
| 8 | <input type="checkbox"/> |           |            | 12244.08   | 0.0448  | P   | 0.4 |

$$y = 0.0021 * x + 0.0024$$

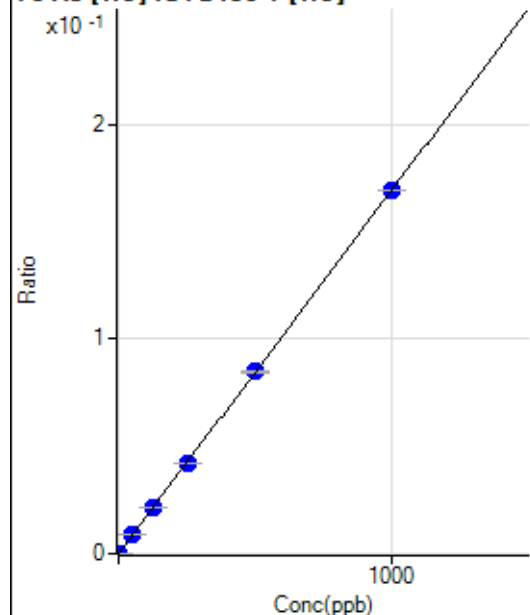
$$R = 0.9999$$

$$DL = 0.08703$$

$$BEC = 1.149$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS       | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-----------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 11.11     | 0.0000 | P   | 15.5 |
| 2 | <input type="checkbox"/> | 1.000    | 1.039      | 408.65    | 0.0002 | P   | 9.3  |
| 3 | <input type="checkbox"/> | 50.000   | 51.065     | 19080.42  | 0.0086 | P   | 1.2  |
| 4 | <input type="checkbox"/> | 125.000  | 127.141    | 45758.52  | 0.0215 | P   | 0.6  |
| 5 | <input type="checkbox"/> | 250.000  | 249.957    | 87212.64  | 0.0423 | P   | 0.1  |
| 6 | <input type="checkbox"/> | 500.000  | 501.313    | 172354.82 | 0.0847 | P   | 0.7  |
| 7 | <input type="checkbox"/> | 1000.000 | 999.033    | 346510.89 | 0.1689 | P   | 0.1  |
| 8 | <input type="checkbox"/> |          |            | 182.10    | 0.0001 | P   | 15.0 |

$$y = 1.6902E-004 * x + 4.8724E-006$$

$$R = 1.0000$$

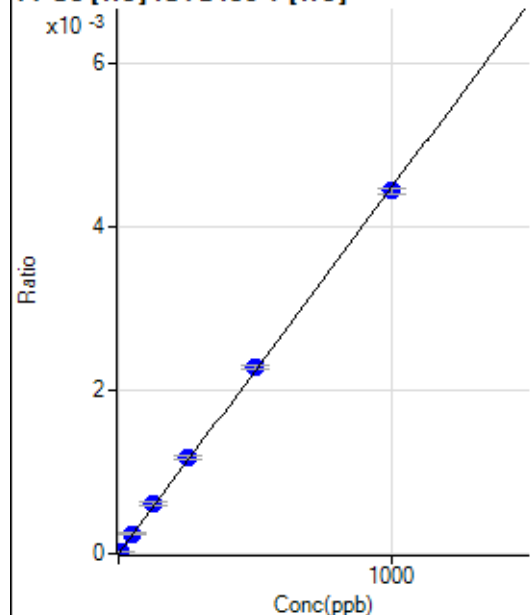
$$DL = 0.01338$$

$$BEC = 0.02883$$

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      | 0.00    | 0.0000 | P   |      |
| 2 | <input type="checkbox"/> | 5.000    | 4.827      | 48.89   | 0.0000 | P   | 26.5 |
| 3 | <input type="checkbox"/> | 50.000   | 54.822     | 542.24  | 0.0002 | P   | 8.2  |
| 4 | <input type="checkbox"/> | 125.000  | 136.163    | 1296.74 | 0.0006 | P   | 10.6 |
| 5 | <input type="checkbox"/> | 250.000  | 260.822    | 2409.12 | 0.0012 | P   | 3.7  |
| 6 | <input type="checkbox"/> | 500.000  | 509.312    | 4635.24 | 0.0023 | P   | 1.4  |
| 7 | <input type="checkbox"/> | 1000.000 | 991.003    | 9099.60 | 0.0044 | P   | 1.6  |
| 8 | <input type="checkbox"/> |          |            | 4.44    | 0.0000 | P   | 115. |

$$y = 4.4745\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9998$$

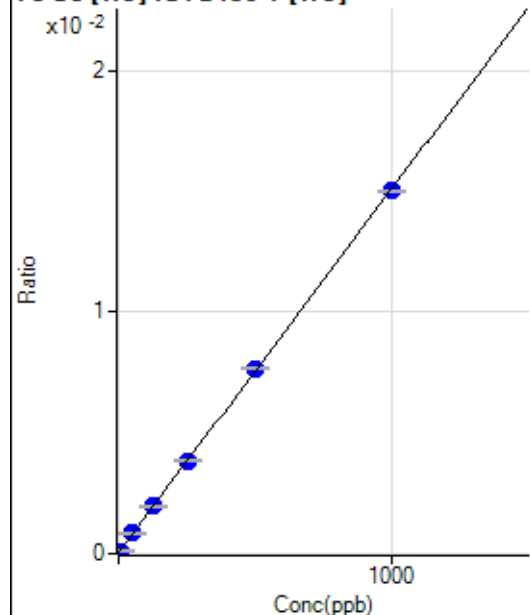
$$DL = 0$$

$$BEC = 0$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS      | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|----------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 103.09   | 0.0000 | P   | 6.0  |
| 2 | <input type="checkbox"/> | 5.000    | 4.782      | 265.43   | 0.0001 | P   | 6.3  |
| 3 | <input type="checkbox"/> | 50.000   | 52.573     | 1847.66  | 0.0008 | P   | 2.9  |
| 4 | <input type="checkbox"/> | 125.000  | 127.098    | 4167.29  | 0.0020 | P   | 2.0  |
| 5 | <input type="checkbox"/> | 250.000  | 252.543    | 7935.53  | 0.0038 | P   | 1.5  |
| 6 | <input type="checkbox"/> | 500.000  | 507.407    | 15620.14 | 0.0077 | P   | 0.5  |
| 7 | <input type="checkbox"/> | 1000.000 | 995.271    | 30818.98 | 0.0150 | P   | 0.8  |
| 8 | <input type="checkbox"/> |          |            | 107.41   | 0.0001 | P   | 16.3 |

$$y = 1.5045\text{E-}005 * x + 4.5240\text{E-}005$$

$$R = 1.0000$$

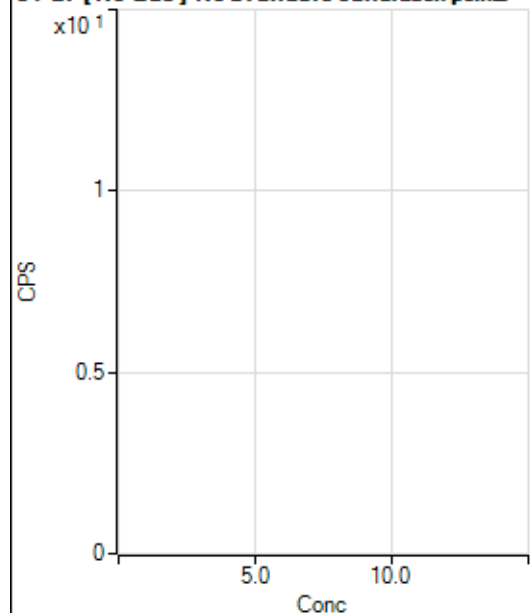
$$DL = 0.5415$$

$$BEC = 3.007$$

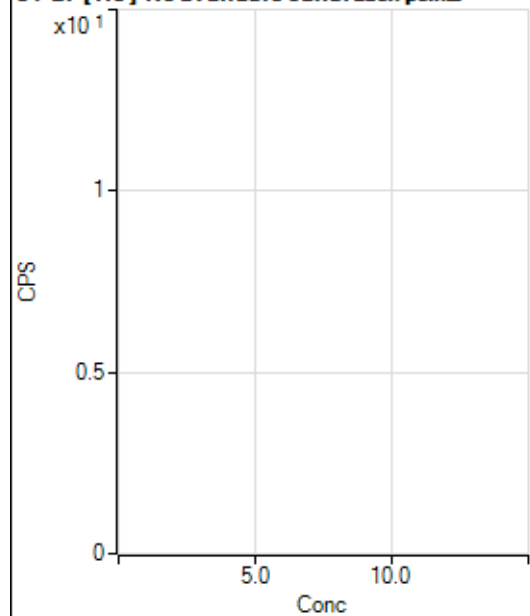
Weight: &lt;None&gt;

Min Conc: 0

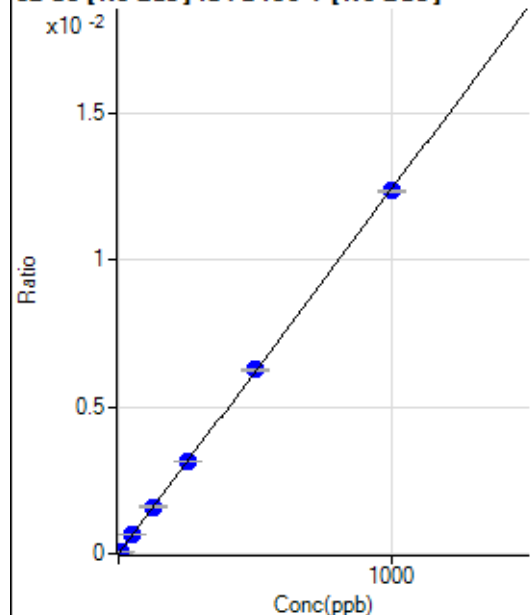


**81 Br [ No Gas ] No available calibration points**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS     | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|---------|-------|----------|-----|
| 1 | <input type="checkbox"/> |       |            | 6198.73 |       | P        | 2.4 |
| 2 | <input type="checkbox"/> |       |            | 6112.58 |       | P        | 2.9 |
| 3 | <input type="checkbox"/> |       |            | 6001.39 |       | P        | 4.5 |
| 4 | <input type="checkbox"/> |       |            | 5473.40 |       | P        | 2.9 |
| 5 | <input type="checkbox"/> |       |            | 5326.12 |       | P        | 2.4 |
| 6 | <input type="checkbox"/> |       |            | 5062.11 |       | P        | 2.7 |
| 7 | <input type="checkbox"/> |       |            | 5187.18 |       | P        | 2.9 |
| 8 | <input type="checkbox"/> |       |            | 5590.10 |       | P        | 3.5 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS   | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|-------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 40.04 |       | P        | 43.3 |
| 2 | <input type="checkbox"/> |       |            | 50.05 |       | P        | 20.0 |
| 3 | <input type="checkbox"/> |       |            | 63.40 |       | P        | 18.2 |
| 4 | <input type="checkbox"/> |       |            | 70.07 |       | P        | 49.5 |
| 5 | <input type="checkbox"/> |       |            | 53.39 |       | P        | 47.2 |
| 6 | <input type="checkbox"/> |       |            | 50.05 |       | P        | 87.2 |
| 7 | <input type="checkbox"/> |       |            | 56.72 |       | P        | 97.2 |
| 8 | <input type="checkbox"/> |       |            | 63.40 |       | P        | 50.8 |

**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      | -25.48   | 0.0000 | P    | -44. |
| 2 | <input type="checkbox"/> | 5.000    | 5.596      | 551.35   | 0.0001 | P    | 15.1 |
| 3 | <input type="checkbox"/> | 50.000   | 52.724     | 5329.96  | 0.0007 | P    | 2.2  |
| 4 | <input type="checkbox"/> | 125.000  | 129.234    | 12826.08 | 0.0016 | P    | 0.4  |
| 5 | <input type="checkbox"/> | 250.000  | 253.988    | 24422.56 | 0.0031 | P    | 0.5  |
| 6 | <input type="checkbox"/> | 500.000  | 505.222    | 47288.09 | 0.0063 | P    | 0.8  |
| 7 | <input type="checkbox"/> | 1000.000 | 995.723    | 93841.65 | 0.0124 | P    | 0.2  |
| 8 | <input type="checkbox"/> |          |            | 87.65    | 0.0000 | P    | 37.1 |

$$y = 1.2407E-005 * x - 3.1029E-006$$

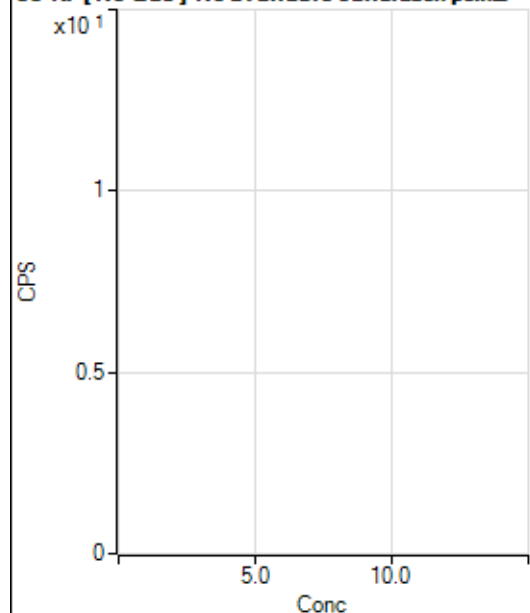
$$R = 1.0000$$

$$DL = 0.3347$$

$$BEC = -0.2501$$

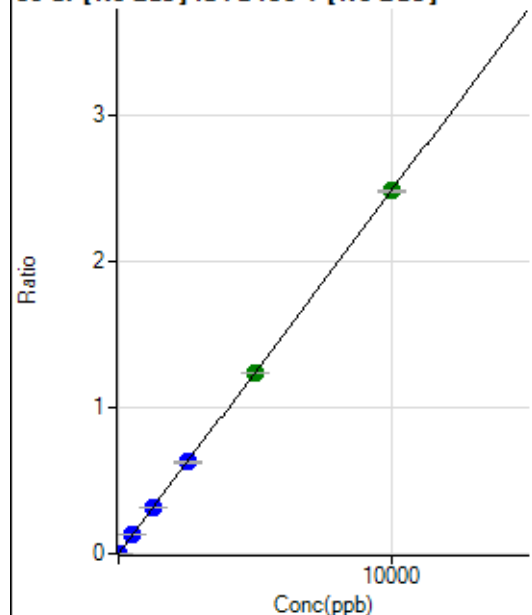
Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det. | RSD  |
|---|--------------------------|-------|------------|--------|-------|------|------|
| 1 | <input type="checkbox"/> |       |            | 552.24 |       | P    | 1.8  |
| 2 | <input type="checkbox"/> |       |            | 521.13 |       | P    | 10.7 |
| 3 | <input type="checkbox"/> |       |            | 547.79 |       | P    | 13.6 |
| 4 | <input type="checkbox"/> |       |            | 516.68 |       | P    | 2.6  |
| 5 | <input type="checkbox"/> |       |            | 525.57 |       | P    | 5.1  |
| 6 | <input type="checkbox"/> |       |            | 514.46 |       | P    | 23.1 |
| 7 | <input type="checkbox"/> |       |            | 484.46 |       | P    | 10.3 |
| 8 | <input type="checkbox"/> |       |            | 477.79 |       | P    | 4.0  |

86 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      | 888.94      | 0.0001 | P    | 5.9 |
| 2 | <input type="checkbox"/> | 1.000     | 1.147      | 3269.91     | 0.0004 | P    | 8.5 |
| 3 | <input type="checkbox"/> | 500.000   | 511.270    | 1042496.66  | 0.1273 | P    | 1.3 |
| 4 | <input type="checkbox"/> | 1250.000  | 1265.344   | 2524636.08  | 0.3150 | P    | 0.5 |
| 5 | <input type="checkbox"/> | 2500.000  | 2519.156   | 4863925.20  | 0.6270 | P    | 1.3 |
| 6 | <input type="checkbox"/> | 5000.000  | 4992.169   | 9377665.84  | 1.2424 | A    | 0.5 |
| 7 | <input type="checkbox"/> | 10000.000 | 9996.645   | 18902405.63 | 2.4878 | A    | 0.5 |
| 8 | <input type="checkbox"/> |           |            | 14449.27    | 0.0019 | P    | 1.8 |

$$y = 2.4885E-004 * x + 1.0827E-004$$

$$R = 1.0000$$

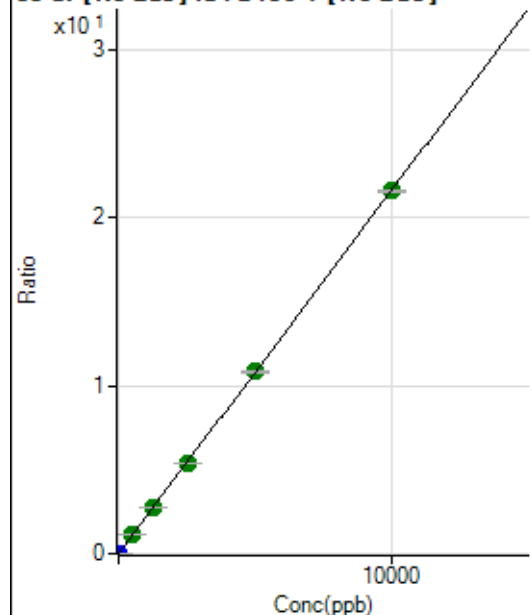
$$DL = 0.07706$$

$$BEC = 0.4351$$

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      | 247.23      | 0.0000  | P    | 5.2 |
| 2 | <input type="checkbox"/> | 1.000     | 1.083      | 19708.39    | 0.0024  | P    | 2.0 |
| 3 | <input type="checkbox"/> | 500.000   | 512.956    | 9082576.16  | 1.1094  | A    | 1.2 |
| 4 | <input type="checkbox"/> | 1250.000  | 1256.539   | 21781067.15 | 2.7175  | A    | 0.3 |
| 5 | <input type="checkbox"/> | 2500.000  | 2493.794   | 41839705.80 | 5.3933  | A    | 1.3 |
| 6 | <input type="checkbox"/> | 5000.000  | 5021.859   | 81973703.92 | 10.8607 | A    | 1.2 |
| 7 | <input type="checkbox"/> | 10000.000 | 9989.157   | 164144074.5 | 21.6034 | A    | 0.9 |
| 8 | <input type="checkbox"/> |           |            | 122109.74   | 0.0159  | P    | 0.9 |

$$y = 0.0022 * x + 3.0127E-005$$

$$R = 1.0000$$

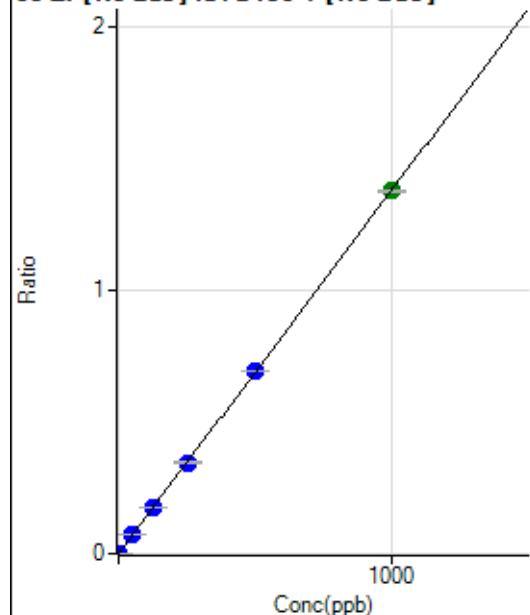
$$DL = 0.00217$$

$$BEC = 0.01393$$

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      | 438.91      | 0.0001 | P    | 10.0 |
| 2 | <input type="checkbox"/> | 1.000    | 0.936      | 11140.72    | 0.0013 | P    | 3.7  |
| 3 | <input type="checkbox"/> | 50.000   | 50.953     | 574422.95   | 0.0702 | P    | 1.0  |
| 4 | <input type="checkbox"/> | 125.000  | 126.279    | 1393070.47  | 0.1738 | P    | 0.6  |
| 5 | <input type="checkbox"/> | 250.000  | 250.372    | 2672903.27  | 0.3446 | P    | 1.1  |
| 6 | <input type="checkbox"/> | 500.000  | 501.283    | 5206651.98  | 0.6898 | P    | 0.3  |
| 7 | <input type="checkbox"/> | 1000.000 | 999.058    | 10445369.33 | 1.3747 | A    | 0.3  |
| 8 | <input type="checkbox"/> |          |            | 5781.89     | 0.0008 | P    | 5.4  |

$$y = 0.0014 * x + 5.3522E-005$$

$$R = 1.0000$$

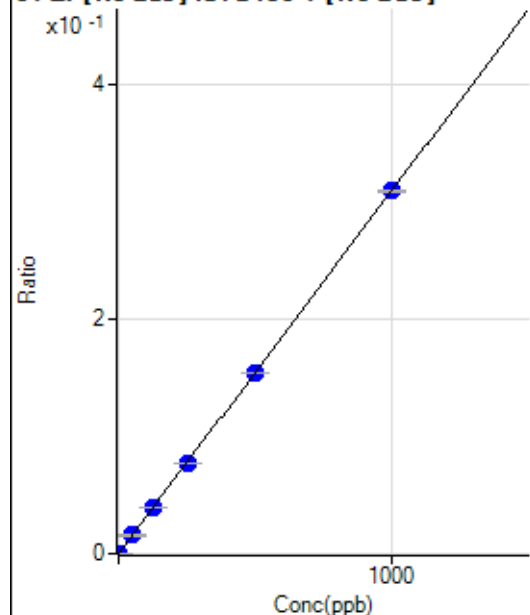
$$DL = 0.01164$$

$$BEC = 0.0389$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 86.11      | 0.0000 | P    | 12.0 |
| 2 | <input type="checkbox"/> | 1.000    | 0.924      | 2464.17    | 0.0003 | P    | 7.4  |
| 3 | <input type="checkbox"/> | 50.000   | 50.680     | 128574.68  | 0.0157 | P    | 1.7  |
| 4 | <input type="checkbox"/> | 125.000  | 125.771    | 312268.70  | 0.0390 | P    | 0.5  |
| 5 | <input type="checkbox"/> | 250.000  | 249.345    | 599142.73  | 0.0772 | P    | 0.6  |
| 6 | <input type="checkbox"/> | 500.000  | 499.309    | 1167241.47 | 0.1546 | P    | 0.4  |
| 7 | <input type="checkbox"/> | 1000.000 | 1000.379   | 2354041.18 | 0.3098 | P    | 0.2  |
| 8 | <input type="checkbox"/> |          |            | 1397.33    | 0.0002 | P    | 2.2  |

$$y = 3.0969E-004 * x + 1.0500E-005$$

$$R = 1.0000$$

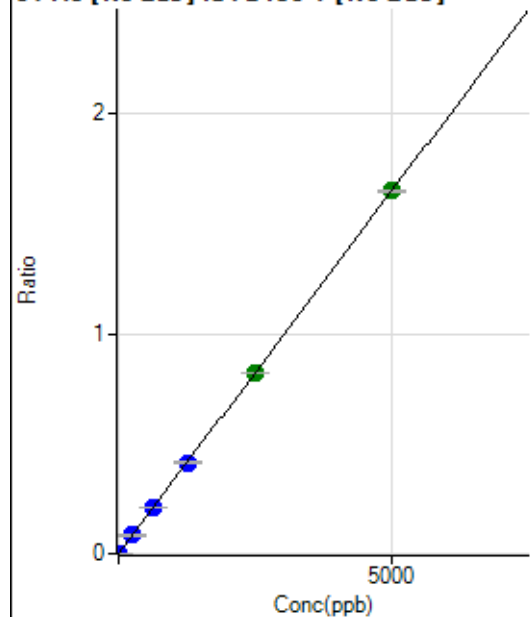
$$DL = 0.01219$$

$$BEC = 0.03391$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 133.34      | 0.0000 | P    | 15.5 |
| 2 | <input type="checkbox"/> | 5.000    | 4.976      | 13770.80    | 0.0017 | P    | 3.4  |
| 3 | <input type="checkbox"/> | 250.000  | 253.563    | 684788.18   | 0.0836 | P    | 1.5  |
| 4 | <input type="checkbox"/> | 625.000  | 628.953    | 1662822.85  | 0.2075 | P    | 0.3  |
| 5 | <input type="checkbox"/> | 1250.000 | 1251.602   | 3202369.34  | 0.4128 | P    | 1.4  |
| 6 | <input type="checkbox"/> | 2500.000 | 2486.574   | 6190600.49  | 0.8201 | A    | 0.3  |
| 7 | <input type="checkbox"/> | 5000.000 | 5005.640   | 12544542.90 | 1.6510 | A    | 0.8  |
| 8 | <input type="checkbox"/> |          |            | 4825.93     | 0.0006 | P    | 4.2  |

$$y = 3.2982\text{E-}004 * x + 1.6227\text{E-}005$$

$$R = 1.0000$$

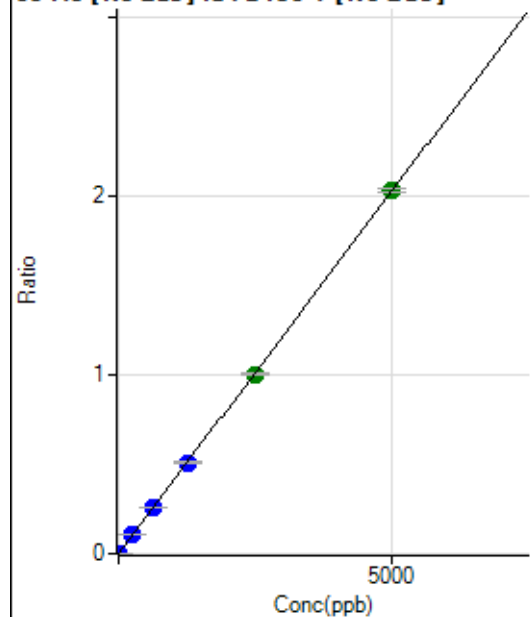
$$DL = 0.02282$$

$$BEC = 0.0492$$

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      | 19.45       | 0.0000 | P    | 23.8 |
| 2 | <input type="checkbox"/> | 5.000    | 5.007      | 16865.86    | 0.0020 | P    | 1.3  |
| 3 | <input type="checkbox"/> | 250.000  | 254.768    | 844742.89   | 0.1032 | P    | 1.4  |
| 4 | <input type="checkbox"/> | 625.000  | 628.612    | 2040603.97  | 0.2546 | P    | 0.5  |
| 5 | <input type="checkbox"/> | 1250.000 | 1252.614   | 3935278.95  | 0.5073 | P    | 1.6  |
| 6 | <input type="checkbox"/> | 2500.000 | 2478.405   | 7576320.66  | 1.0038 | A    | 0.7  |
| 7 | <input type="checkbox"/> | 5000.000 | 5009.454   | 15415394.27 | 2.0289 | A    | 1.0  |
| 8 | <input type="checkbox"/> |          |            | 5195.51     | 0.0007 | P    | 4.7  |

$$y = 4.0501\text{E-}004 * x + 2.3665\text{E-}006$$

$$R = 1.0000$$

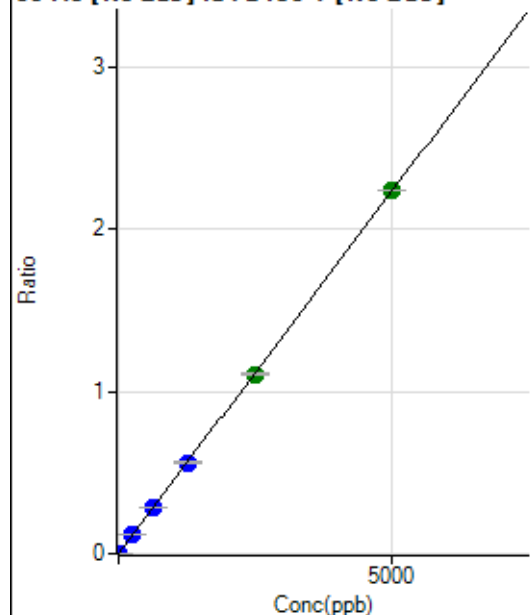
$$DL = 0.004176$$

$$BEC = 0.005843$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 72.22       | 0.0000 | P    | 23.9 |
| 2 | <input type="checkbox"/> | 5.000    | 5.038      | 18737.70    | 0.0023 | P    | 4.0  |
| 3 | <input type="checkbox"/> | 250.000  | 254.417    | 929039.33   | 0.1135 | P    | 1.6  |
| 4 | <input type="checkbox"/> | 625.000  | 630.352    | 2253506.82  | 0.2812 | P    | 0.5  |
| 5 | <input type="checkbox"/> | 1250.000 | 1254.334   | 4339879.83  | 0.5595 | P    | 1.4  |
| 6 | <input type="checkbox"/> | 2500.000 | 2474.490   | 8330348.71  | 1.1037 | A    | 1.0  |
| 7 | <input type="checkbox"/> | 5000.000 | 5010.781   | 16981306.11 | 2.2349 | A    | 0.2  |
| 8 | <input type="checkbox"/> |          |            | 6676.73     | 0.0009 | P    | 1.8  |

$$y = 4.4602E-004 * x + 8.8006E-006$$

$$R = 1.0000$$

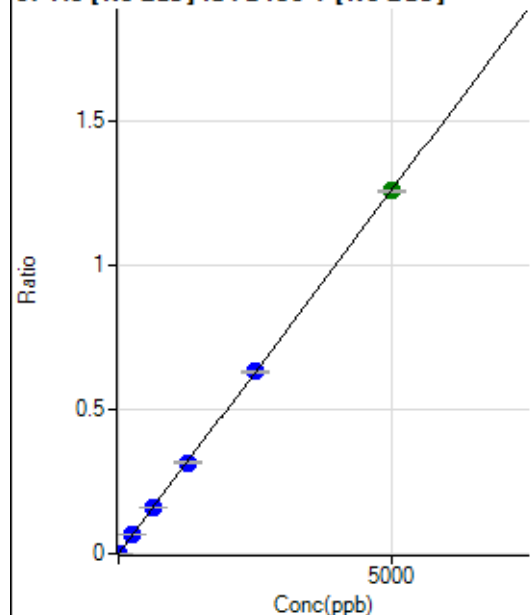
$$DL = 0.01415$$

$$BEC = 0.01973$$

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      | 5.56       | 0.0000 | P    | 173. |
| 2 | <input type="checkbox"/> | 5.000    | 5.039      | 10534.72   | 0.0013 | P    | 0.6  |
| 3 | <input type="checkbox"/> | 250.000  | 256.505    | 528226.40  | 0.0645 | P    | 1.2  |
| 4 | <input type="checkbox"/> | 625.000  | 631.888    | 1273964.88 | 0.1589 | P    | 0.5  |
| 5 | <input type="checkbox"/> | 1250.000 | 1255.718   | 2450279.72 | 0.3159 | P    | 1.1  |
| 6 | <input type="checkbox"/> | 2500.000 | 2507.552   | 4760739.38 | 0.6307 | P    | 0.9  |
| 7 | <input type="checkbox"/> | 5000.000 | 4993.608   | 9543866.71 | 1.2561 | A    | 0.5  |
| 8 | <input type="checkbox"/> |          |            | 3050.42    | 0.0004 | P    | 11.7 |

$$y = 2.5154E-004 * x + 6.7462E-007$$

$$R = 1.0000$$

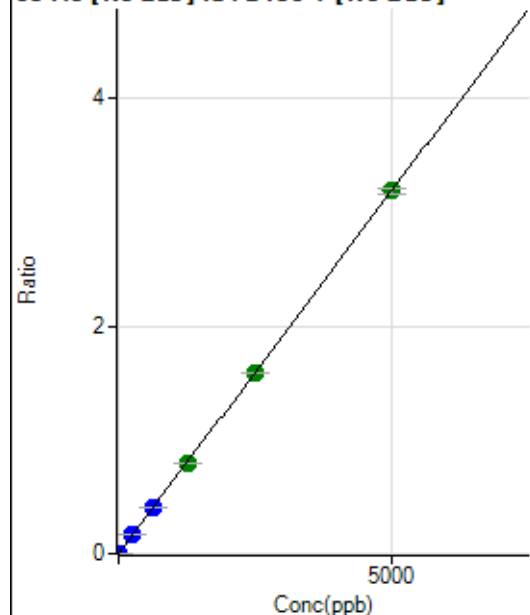
$$DL = 0.01394$$

$$BEC = 0.002682$$

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<br>. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 66.67       | 0.0000 | P        | 45.9 |
| 2 | <input type="checkbox"/> | 5.000    | 4.989      | 26494.62    | 0.0032 | P        | 1.8  |
| 3 | <input type="checkbox"/> | 250.000  | 256.719    | 1340056.10  | 0.1637 | P        | 1.6  |
| 4 | <input type="checkbox"/> | 625.000  | 636.346    | 3252030.63  | 0.4057 | P        | 0.3  |
| 5 | <input type="checkbox"/> | 1250.000 | 1247.597   | 6171563.46  | 0.7955 | A        | 0.1  |
| 6 | <input type="checkbox"/> | 2500.000 | 2495.260   | 12008568.93 | 1.5910 | A        | 0.6  |
| 7 | <input type="checkbox"/> | 5000.000 | 5001.216   | 24227931.45 | 3.1887 | A        | 1.4  |
| 8 | <input type="checkbox"/> |          |            | 7477.13     | 0.0010 | P        | 1.9  |

$$y = 6.3759\text{E-}004 * x + 8.1492\text{E-}006$$

$$R = 1.0000$$

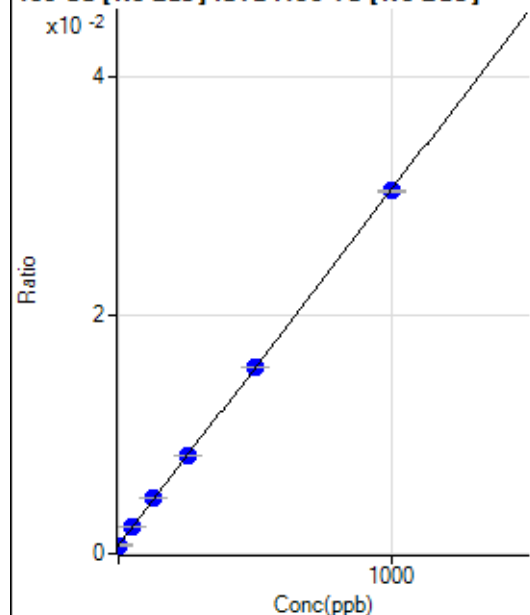
$$DL = 0.0176$$

$$BEC = 0.01278$$

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<br>. | RSD |
|---|--------------------------|----------|------------|-----------|--------|----------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 4150.73   | 0.0007 | P        | 4.5 |
| 2 | <input type="checkbox"/> | 1.000    | 1.169      | 4364.70   | 0.0007 | P        | 2.5 |
| 3 | <input type="checkbox"/> | 50.000   | 54.641     | 13932.12  | 0.0023 | P        | 0.6 |
| 4 | <input type="checkbox"/> | 125.000  | 134.524    | 28203.56  | 0.0047 | P        | 1.1 |
| 5 | <input type="checkbox"/> | 250.000  | 253.700    | 48661.56  | 0.0083 | P        | 0.6 |
| 6 | <input type="checkbox"/> | 500.000  | 502.507    | 90020.68  | 0.0157 | P        | 0.2 |
| 7 | <input type="checkbox"/> | 1000.000 | 996.399    | 175453.24 | 0.0305 | P        | 0.7 |
| 8 | <input type="checkbox"/> |          |            | 4231.32   | 0.0008 | P        | 1.1 |

$$y = 2.9897\text{E-}005 * x + 6.8912\text{E-}004$$

$$R = 1.0000$$

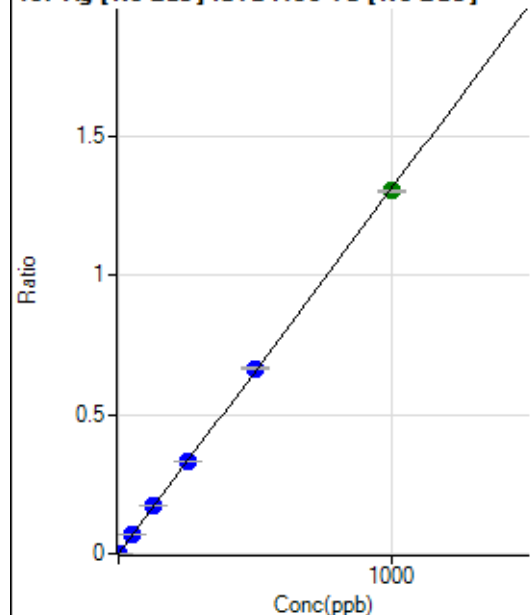
$$DL = 3.138$$

$$BEC = 23.05$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 61.11      | 0.0000 | P    | 41.8 |
| 2 | <input type="checkbox"/> | 1.000    | 1.013      | 8060.81    | 0.0013 | P    | 2.8  |
| 3 | <input type="checkbox"/> | 50.000   | 54.358     | 427174.81  | 0.0712 | P    | 0.8  |
| 4 | <input type="checkbox"/> | 125.000  | 131.075    | 1028011.63 | 0.1717 | P    | 0.4  |
| 5 | <input type="checkbox"/> | 250.000  | 254.913    | 1963986.00 | 0.3339 | P    | 0.3  |
| 6 | <input type="checkbox"/> | 500.000  | 507.515    | 3809001.60 | 0.6648 | P    | 0.8  |
| 7 | <input type="checkbox"/> | 1000.000 | 994.037    | 7496273.69 | 1.3022 | A    | 0.4  |
| 8 | <input type="checkbox"/> |          |            | 3377.69    | 0.0006 | P    | 51.2 |

$$y = 0.0013 * x + 1.0157E-005$$

$$R = 0.9999$$

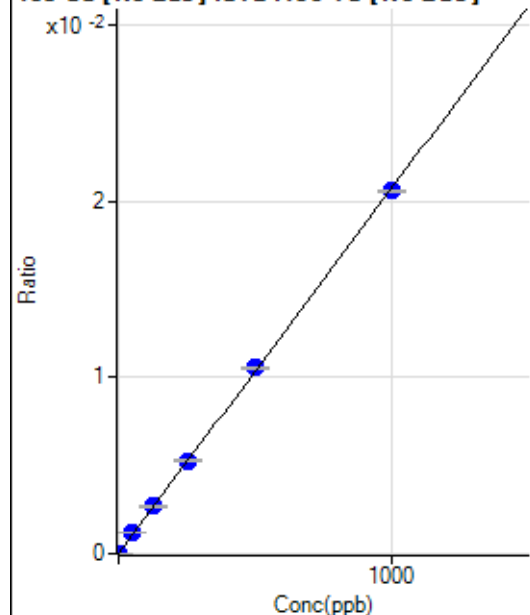
$$DL = 0.00973$$

$$BEC = 0.007754$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS       | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-----------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 44.44     | 0.0000 | P    | 32.7 |
| 2 | <input type="checkbox"/> | 1.000    | 1.088      | 180.56    | 0.0000 | P    | 20.5 |
| 3 | <input type="checkbox"/> | 50.000   | 55.481     | 6942.06   | 0.0012 | P    | 1.6  |
| 4 | <input type="checkbox"/> | 125.000  | 129.522    | 16116.17  | 0.0027 | P    | 1.7  |
| 5 | <input type="checkbox"/> | 250.000  | 255.099    | 31139.67  | 0.0053 | P    | 1.3  |
| 6 | <input type="checkbox"/> | 500.000  | 508.584    | 60436.15  | 0.0105 | P    | 1.4  |
| 7 | <input type="checkbox"/> | 1000.000 | 993.594    | 118597.21 | 0.0206 | P    | 0.3  |
| 8 | <input type="checkbox"/> |          |            | 125.00    | 0.0000 | P    | 24.0 |

$$y = 2.0727E-005 * x + 7.3766E-006$$

$$R = 0.9999$$

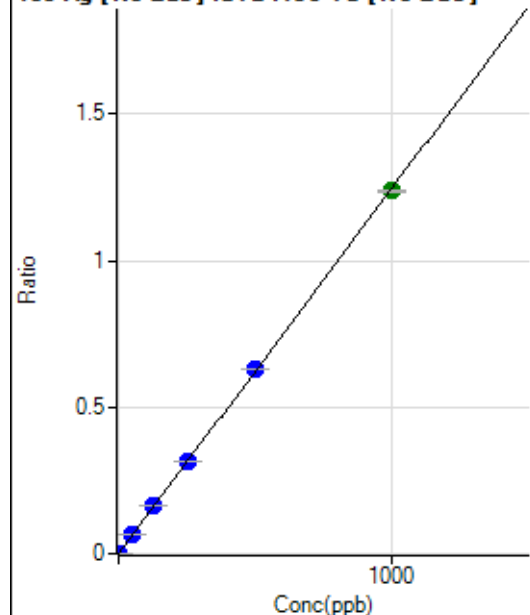
$$DL = 0.3487$$

$$BEC = 0.3559$$

Weight: &lt;None&gt;

Min Conc: 0



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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 16.67      | 0.0000 | P        | 50.3 |
| 2 | <input type="checkbox"/> | 1.000    | 1.039      | 7810.70    | 0.0013 | P        | 4.1  |
| 3 | <input type="checkbox"/> | 50.000   | 53.980     | 403035.66  | 0.0672 | P        | 0.5  |
| 4 | <input type="checkbox"/> | 125.000  | 131.360    | 978902.12  | 0.1635 | P        | 0.4  |
| 5 | <input type="checkbox"/> | 250.000  | 255.077    | 1867336.20 | 0.3175 | P        | 0.5  |
| 6 | <input type="checkbox"/> | 500.000  | 506.093    | 3609149.95 | 0.6300 | P        | 0.8  |
| 7 | <input type="checkbox"/> | 1000.000 | 994.690    | 7127521.00 | 1.2381 | A        | 0.4  |
| 8 | <input type="checkbox"/> |          |            | 1994.64    | 0.0004 | P        | 2.0  |

$$y = 0.0012 * x + 2.7699E-006$$

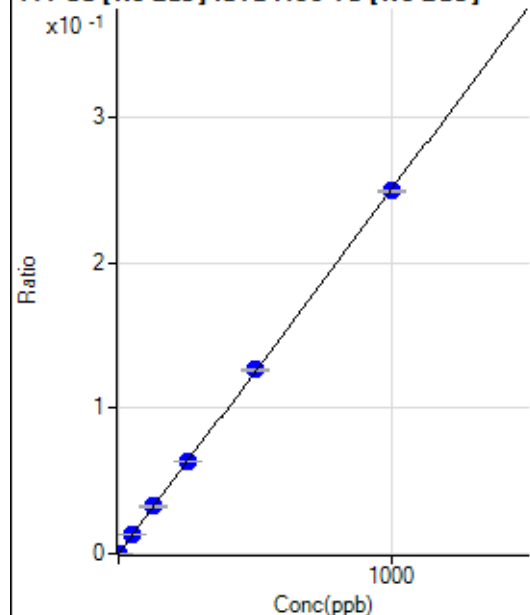
$$R = 0.9999$$

$$DL = 0.003361$$

$$BEC = 0.002225$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det<br>. | RSD |
|---|--------------------------|----------|------------|------------|--------|----------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 396.46     | 0.0001 | P        | 6.4 |
| 2 | <input type="checkbox"/> | 1.000    | 0.998      | 1901.85    | 0.0003 | P        | 5.3 |
| 3 | <input type="checkbox"/> | 50.000   | 53.619     | 80790.05   | 0.0135 | P        | 0.3 |
| 4 | <input type="checkbox"/> | 125.000  | 129.645    | 194410.72  | 0.0325 | P        | 1.1 |
| 5 | <input type="checkbox"/> | 250.000  | 252.492    | 371593.45  | 0.0632 | P        | 0.3 |
| 6 | <input type="checkbox"/> | 500.000  | 504.786    | 723311.43  | 0.1263 | P        | 0.4 |
| 7 | <input type="checkbox"/> | 1000.000 | 996.222    | 1433958.60 | 0.2491 | P        | 0.7 |
| 8 | <input type="checkbox"/> |          |            | 837.03     | 0.0002 | P        | 6.4 |

$$y = 2.4998E-004 * x + 6.5819E-005$$

$$R = 1.0000$$

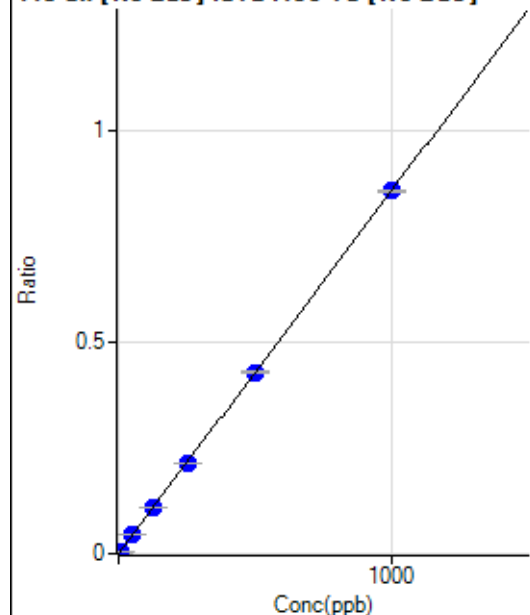
$$DL = 0.05032$$

$$BEC = 0.2633$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 897.28     | 0.0001 | P   | 4.6 |
| 2 | <input type="checkbox"/> | 5.000    | 5.074      | 27101.51   | 0.0045 | P   | 2.1 |
| 3 | <input type="checkbox"/> | 50.000   | 52.321     | 269752.32  | 0.0450 | P   | 0.4 |
| 4 | <input type="checkbox"/> | 125.000  | 126.810    | 651272.04  | 0.1088 | P   | 0.0 |
| 5 | <input type="checkbox"/> | 250.000  | 248.971    | 1255267.85 | 0.2134 | P   | 0.4 |
| 6 | <input type="checkbox"/> | 500.000  | 500.161    | 2455734.00 | 0.4286 | P   | 0.4 |
| 7 | <input type="checkbox"/> | 1000.000 | 999.834    | 4931772.37 | 0.8567 | P   | 0.3 |
| 8 | <input type="checkbox"/> |          |            | 2789.23    | 0.0005 | P   | 1.2 |

$$y = 8.5669\text{E-}004 * x + 1.4899\text{E-}004$$

$$R = 1.0000$$

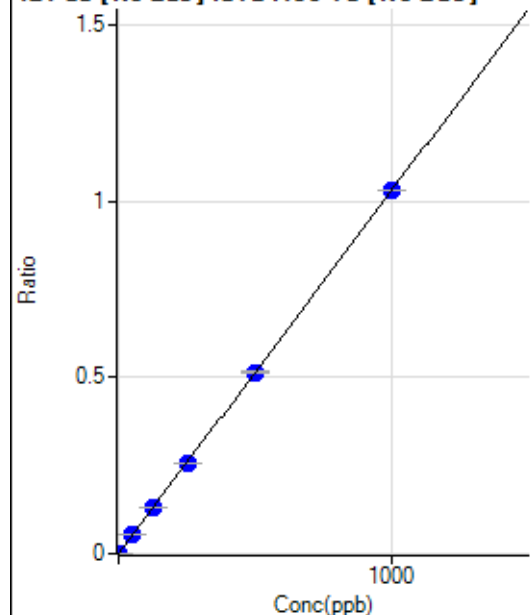
$$DL = 0.02383$$

$$BEC = 0.1739$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 75.00      | 0.0000 | P   | 33.0 |
| 2 | <input type="checkbox"/> | 2.000    | 1.986      | 12419.68   | 0.0021 | P   | 3.8  |
| 3 | <input type="checkbox"/> | 50.000   | 51.469     | 318404.38  | 0.0531 | P   | 0.3  |
| 4 | <input type="checkbox"/> | 125.000  | 126.151    | 778817.49  | 0.1301 | P   | 0.5  |
| 5 | <input type="checkbox"/> | 250.000  | 249.090    | 1510618.50 | 0.2569 | P   | 0.9  |
| 6 | <input type="checkbox"/> | 500.000  | 500.555    | 2957152.43 | 0.5162 | P   | 0.6  |
| 7 | <input type="checkbox"/> | 1000.000 | 999.733    | 5934419.27 | 1.0309 | P   | 0.1  |
| 8 | <input type="checkbox"/> |          |            | 3695.04    | 0.0007 | P   | 6.9  |

$$y = 0.0010 * x + 1.2447\text{E-}005$$

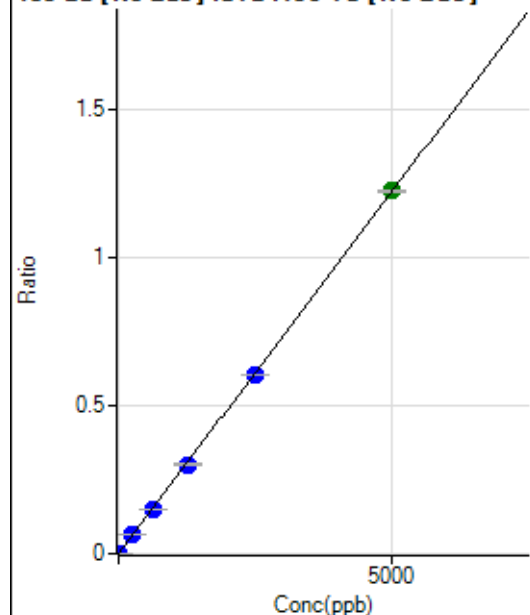
$$R = 1.0000$$

$$DL = 0.01196$$

$$BEC = 0.01207$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 30.56      | 0.0000 | P    | 56.3 |
| 2 | <input type="checkbox"/> | 10.000   | 9.952      | 14702.54   | 0.0024 | P    | 2.5  |
| 3 | <input type="checkbox"/> | 250.000  | 253.511    | 371900.20  | 0.0620 | P    | 0.3  |
| 4 | <input type="checkbox"/> | 625.000  | 622.115    | 910869.10  | 0.1521 | P    | 0.8  |
| 5 | <input type="checkbox"/> | 1250.000 | 1235.773   | 1777374.74 | 0.3022 | P    | 0.8  |
| 6 | <input type="checkbox"/> | 2500.000 | 2472.375   | 3464095.86 | 0.6046 | P    | 0.2  |
| 7 | <input type="checkbox"/> | 5000.000 | 5017.555   | 7063873.77 | 1.2271 | A    | 0.6  |
| 8 | <input type="checkbox"/> |          |            | 2811.48    | 0.0005 | P    | 2.5  |

$$y = 2.4456\text{E-}004 * x + 5.0672\text{E-}006$$

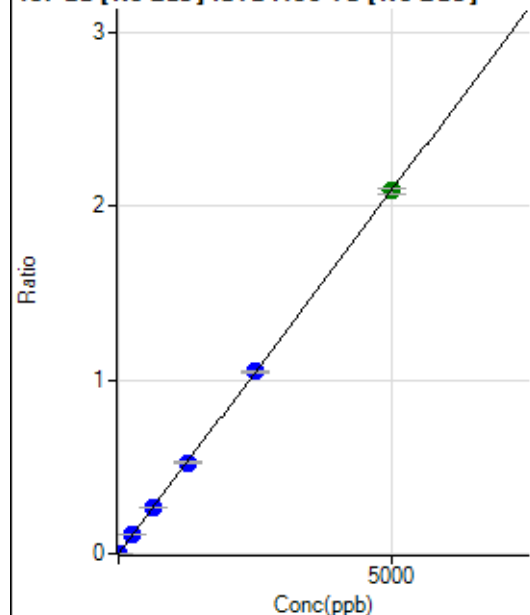
$$R = 1.0000$$

$$DL = 0.03501$$

$$BEC = 0.02072$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 44.44       | 0.0000 | P    | 22.0 |
| 2 | <input type="checkbox"/> | 10.000   | 9.821      | 24783.59    | 0.0041 | P    | 0.2  |
| 3 | <input type="checkbox"/> | 250.000  | 256.498    | 642886.83   | 0.1072 | P    | 0.8  |
| 4 | <input type="checkbox"/> | 625.000  | 628.027    | 1571046.74  | 0.2624 | P    | 0.8  |
| 5 | <input type="checkbox"/> | 1250.000 | 1252.896   | 3078783.08  | 0.5235 | P    | 1.1  |
| 6 | <input type="checkbox"/> | 2500.000 | 2504.906   | 5996517.62  | 1.0467 | P    | 0.4  |
| 7 | <input type="checkbox"/> | 5000.000 | 4996.120   | 12017284.04 | 2.0876 | A    | 1.3  |
| 8 | <input type="checkbox"/> |          |            | 4973.26     | 0.0009 | P    | 3.0  |

$$y = 4.1784\text{E-}004 * x + 7.3844\text{E-}006$$

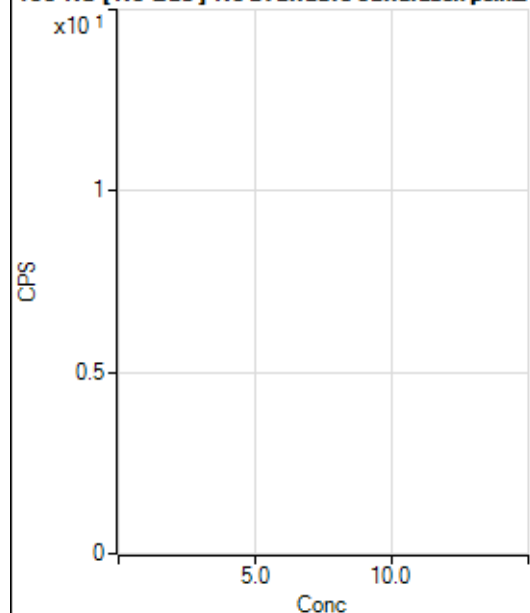
$$R = 1.0000$$

$$DL = 0.01167$$

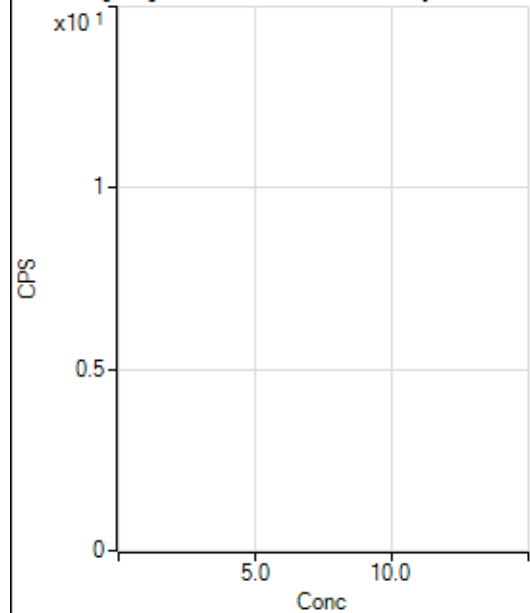
$$BEC = 0.01767$$

Weight: &lt;None&gt;

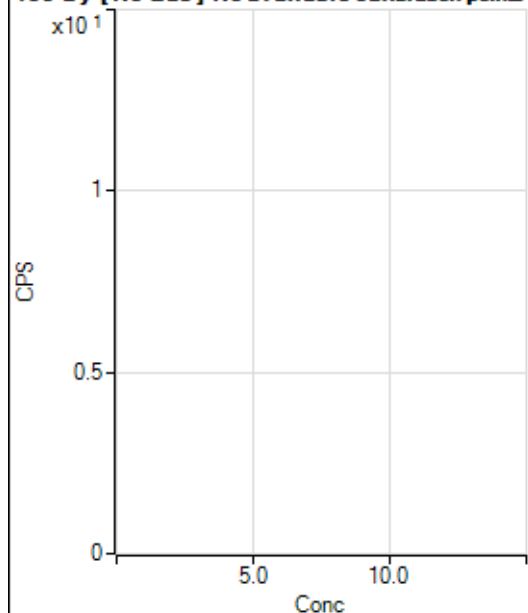
Min Conc: 0

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

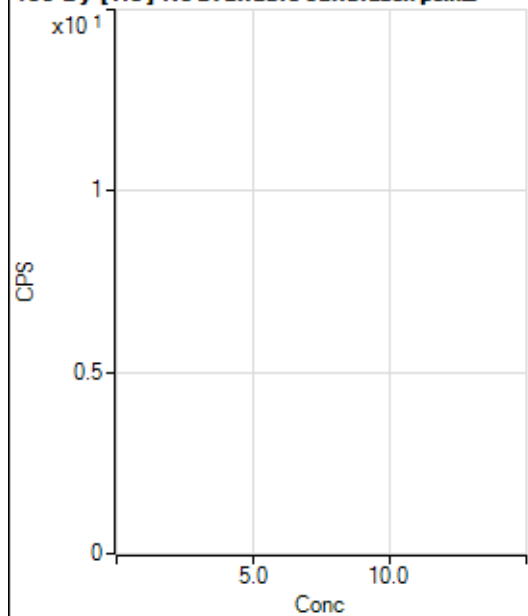
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 8.89   |       | P        | 43.3 |
| 2 | <input type="checkbox"/> |       |            | 11.11  |       | P        | 34.6 |
| 3 | <input type="checkbox"/> |       |            | 53.34  |       | P        | 33.1 |
| 4 | <input type="checkbox"/> |       |            | 77.78  |       | P        | 13.1 |
| 5 | <input type="checkbox"/> |       |            | 140.01 |       | P        | 40.7 |
| 6 | <input type="checkbox"/> |       |            | 304.45 |       | P        | 3.3  |
| 7 | <input type="checkbox"/> |       |            | 564.47 |       | P        | 4.1  |
| 8 | <input type="checkbox"/> |       |            | 60.00  |       | P        | 11.1 |

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

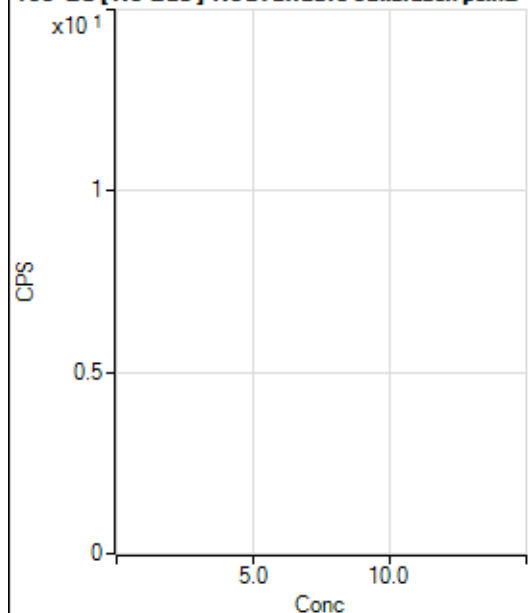
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 0.00   |       | P        |      |
| 2 | <input type="checkbox"/> |       |            | 1.11   |       | P        | 173. |
| 3 | <input type="checkbox"/> |       |            | 7.78   |       | P        | 99.0 |
| 4 | <input type="checkbox"/> |       |            | 18.89  |       | P        | 27.0 |
| 5 | <input type="checkbox"/> |       |            | 35.56  |       | P        | 5.4  |
| 6 | <input type="checkbox"/> |       |            | 64.45  |       | P        | 45.2 |
| 7 | <input type="checkbox"/> |       |            | 122.23 |       | P        | 17.7 |
| 8 | <input type="checkbox"/> |       |            | 44.44  |       | P        | 18.9 |

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

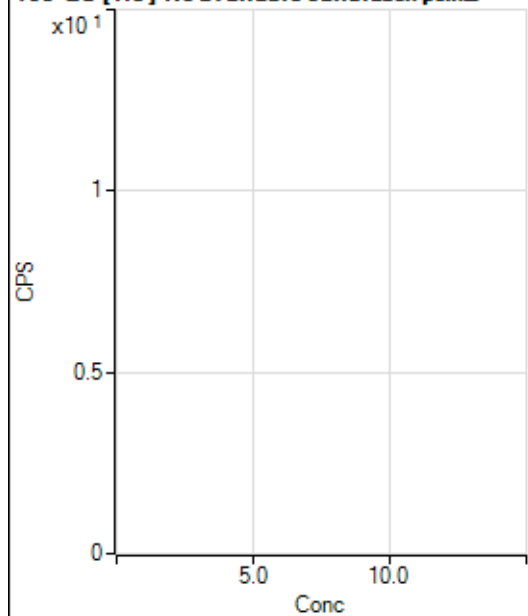
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS     | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|---------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 2.78    |       | P        | 173. |
| 2 | <input type="checkbox"/> |       |            | 2.78    |       | P        | 173. |
| 3 | <input type="checkbox"/> |       |            | 25.00   |       | P        | 57.7 |
| 4 | <input type="checkbox"/> |       |            | 52.78   |       | P        | 50.8 |
| 5 | <input type="checkbox"/> |       |            | 97.23   |       | P        | 13.1 |
| 6 | <input type="checkbox"/> |       |            | 205.56  |       | P        | 28.8 |
| 7 | <input type="checkbox"/> |       |            | 361.13  |       | P        | 8.1  |
| 8 | <input type="checkbox"/> |       |            | 1163.97 |       | P        | 3.6  |

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

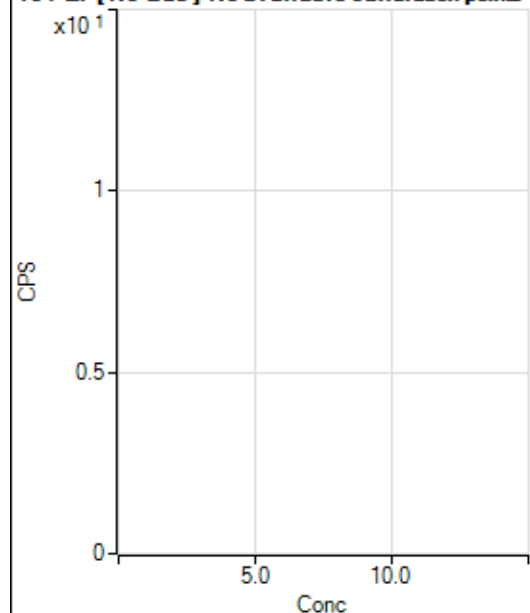
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 1.11   |       | P        | 173. |
| 2 | <input type="checkbox"/> |       |            | 6.67   |       | P        | 50.0 |
| 3 | <input type="checkbox"/> |       |            | 15.55  |       | P        | 44.6 |
| 4 | <input type="checkbox"/> |       |            | 58.89  |       | P        | 22.9 |
| 5 | <input type="checkbox"/> |       |            | 90.00  |       | P        | 45.1 |
| 6 | <input type="checkbox"/> |       |            | 202.23 |       | P        | 13.7 |
| 7 | <input type="checkbox"/> |       |            | 372.23 |       | P        | 8.5  |
| 8 | <input type="checkbox"/> |       |            | 932.26 |       | P        | 5.2  |

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

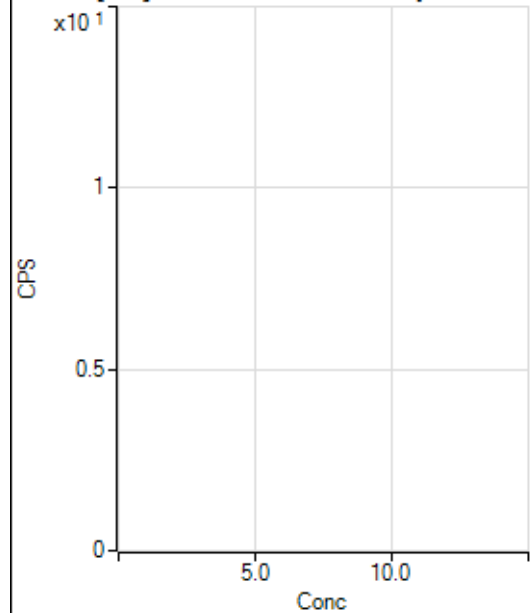
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS     | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|---------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 83.34   |       | P        | 52.0 |
| 2 | <input type="checkbox"/> |       |            | 88.89   |       | P        | 28.6 |
| 3 | <input type="checkbox"/> |       |            | 66.67   |       | P        | 12.5 |
| 4 | <input type="checkbox"/> |       |            | 116.67  |       | P        | 28.6 |
| 5 | <input type="checkbox"/> |       |            | 133.34  |       | P        | 25.0 |
| 6 | <input type="checkbox"/> |       |            | 180.56  |       | P        | 9.6  |
| 7 | <input type="checkbox"/> |       |            | 236.12  |       | P        | 17.4 |
| 8 | <input type="checkbox"/> |       |            | 1022.29 |       | P        | 7.6  |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS     | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|---------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 148.89  |       | P        | 7.2  |
| 2 | <input type="checkbox"/> |       |            | 172.22  |       | P        | 9.7  |
| 3 | <input type="checkbox"/> |       |            | 165.56  |       | P        | 11.6 |
| 4 | <input type="checkbox"/> |       |            | 200.00  |       | P        | 1.7  |
| 5 | <input type="checkbox"/> |       |            | 202.23  |       | P        | 9.1  |
| 6 | <input type="checkbox"/> |       |            | 240.00  |       | P        | 1.4  |
| 7 | <input type="checkbox"/> |       |            | 335.57  |       | P        | 8.0  |
| 8 | <input type="checkbox"/> |       |            | 1077.83 |       | P        | 3.9  |

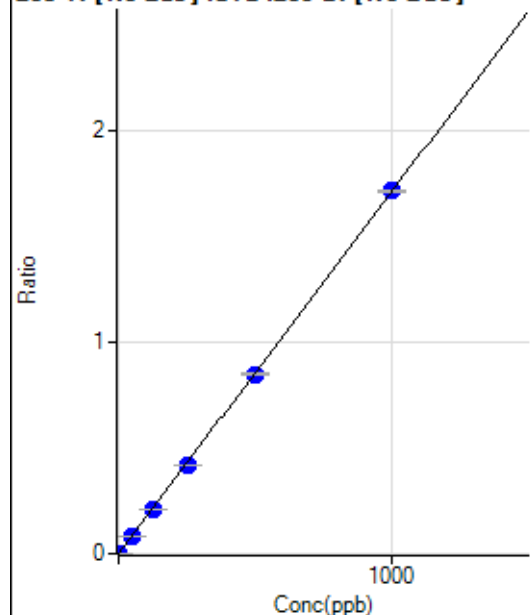
**164 Er [ No Gas ] No available calibration points**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 36.11  |       | P        | 35.3 |
| 2 | <input type="checkbox"/> |       |            | 38.89  |       | P        | 44.6 |
| 3 | <input type="checkbox"/> |       |            | 50.00  |       | P        | 44.1 |
| 4 | <input type="checkbox"/> |       |            | 63.89  |       | P        | 49.4 |
| 5 | <input type="checkbox"/> |       |            | 66.67  |       | P        | 37.5 |
| 6 | <input type="checkbox"/> |       |            | 50.00  |       | P        | 16.7 |
| 7 | <input type="checkbox"/> |       |            | 86.11  |       | P        | 36.6 |
| 8 | <input type="checkbox"/> |       |            | 183.34 |       | P        | 12.0 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 18.89  |       | P        | 36.7 |
| 2 | <input type="checkbox"/> |       |            | 33.33  |       | P        | 20.0 |
| 3 | <input type="checkbox"/> |       |            | 33.34  |       | P        | 45.8 |
| 4 | <input type="checkbox"/> |       |            | 41.11  |       | P        | 41.6 |
| 5 | <input type="checkbox"/> |       |            | 37.78  |       | P        | 28.4 |
| 6 | <input type="checkbox"/> |       |            | 50.00  |       | P        | 17.6 |
| 7 | <input type="checkbox"/> |       |            | 57.78  |       | P        | 6.7  |
| 8 | <input type="checkbox"/> |       |            | 156.67 |       | P        | 27.2 |

203 TI [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      | 147.23     | 0.0000 | P    | 13.3 |
| 2 | <input type="checkbox"/> | 1.000    | 0.945      | 5907.02    | 0.0017 | P    | 3.0  |
| 3 | <input type="checkbox"/> | 50.000   | 49.248     | 298049.18  | 0.0842 | P    | 0.2  |
| 4 | <input type="checkbox"/> | 125.000  | 121.822    | 739078.12  | 0.2082 | P    | 0.9  |
| 5 | <input type="checkbox"/> | 250.000  | 245.730    | 1465850.35 | 0.4199 | P    | 0.2  |
| 6 | <input type="checkbox"/> | 500.000  | 496.318    | 2884879.10 | 0.8480 | P    | 0.7  |
| 7 | <input type="checkbox"/> | 1000.000 | 1003.344   | 5746824.09 | 1.7143 | P    | 0.6  |
| 8 | <input type="checkbox"/> |          |            | 2814.28    | 0.0009 | P    | 9.2  |

$$y = 0.0017 * x + 4.1218E-005$$

$$R = 1.0000$$

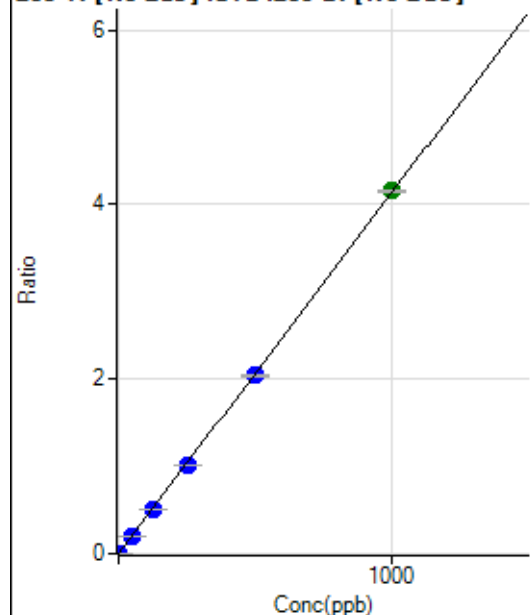
$$DL = 0.009626$$

$$BEC = 0.02412$$

Weight: &lt;None&gt;

Min Conc: 0

205 TI [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      | 302.79      | 0.0001 | P    | 2.1  |
| 2 | <input type="checkbox"/> | 1.000    | 0.960      | 14458.21    | 0.0041 | P    | 2.2  |
| 3 | <input type="checkbox"/> | 50.000   | 48.662     | 712263.95   | 0.2012 | P    | 0.5  |
| 4 | <input type="checkbox"/> | 125.000  | 120.512    | 1768392.27  | 0.4981 | P    | 0.4  |
| 5 | <input type="checkbox"/> | 250.000  | 244.352    | 3525557.11  | 1.0099 | P    | 0.3  |
| 6 | <input type="checkbox"/> | 500.000  | 493.215    | 6933902.06  | 2.0383 | P    | 0.4  |
| 7 | <input type="checkbox"/> | 1000.000 | 1005.432   | 13929322.36 | 4.1551 | A    | 0.3  |
| 8 | <input type="checkbox"/> |          |            | 7160.44     | 0.0024 | P    | 12.7 |

$$y = 0.0041 * x + 8.4756E-005$$

$$R = 0.9999$$

$$DL = 0.001276$$

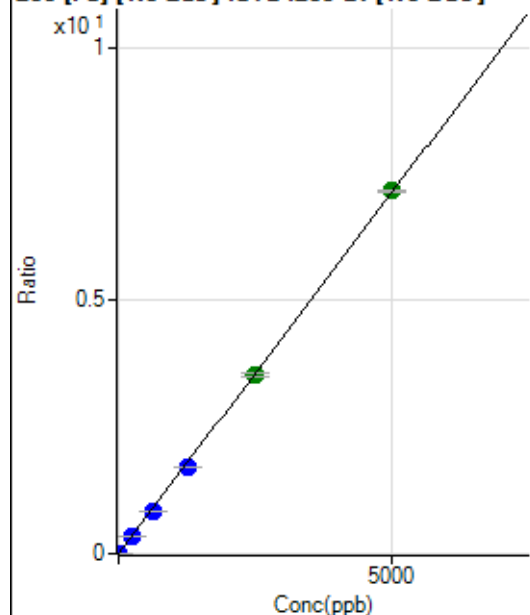
$$BEC = 0.02051$$

Weight: &lt;None&gt;

Min Conc: 0



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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|-------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 512.98      | 0.0001 | P   | 4.9 |
| 2 | <input type="checkbox"/> | 1.000    | 0.941      | 5291.89     | 0.0015 | P   | 7.2 |
| 3 | <input type="checkbox"/> | 250.000  | 238.483    | 1202935.46  | 0.3398 | P   | 0.4 |
| 4 | <input type="checkbox"/> | 625.000  | 590.458    | 2985886.99  | 0.8410 | P   | 0.2 |
| 5 | <input type="checkbox"/> | 1250.000 | 1198.877   | 5961049.50  | 1.7075 | P   | 0.2 |
| 6 | <input type="checkbox"/> | 2500.000 | 2473.682   | 11984398.07 | 3.5230 | A   | 1.6 |
| 7 | <input type="checkbox"/> | 5000.000 | 5030.834   | 24018003.78 | 7.1648 | A   | 0.8 |
| 8 | <input type="checkbox"/> |          |            | 13521.86    | 0.0045 | P   | 1.4 |

$$y = 0.0014 * x + 1.4360E-004$$

$$R = 0.9999$$

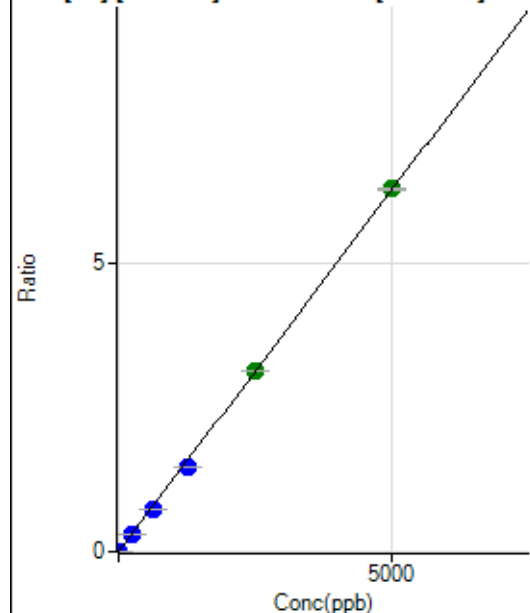
$$DL = 0.01473$$

$$BEC = 0.1008$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|-------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 457.42      | 0.0001 | P   | 3.9 |
| 2 | <input type="checkbox"/> | 1.000    | 0.925      | 4591.62     | 0.0013 | P   | 1.9 |
| 3 | <input type="checkbox"/> | 250.000  | 235.479    | 1045357.97  | 0.2953 | P   | 0.8 |
| 4 | <input type="checkbox"/> | 625.000  | 579.925    | 2580977.31  | 0.7270 | P   | 0.5 |
| 5 | <input type="checkbox"/> | 1250.000 | 1171.822   | 5127901.68  | 1.4689 | P   | 0.3 |
| 6 | <input type="checkbox"/> | 2500.000 | 2505.629   | 10683732.88 | 3.1406 | A   | 0.6 |
| 7 | <input type="checkbox"/> | 5000.000 | 5023.091   | 21105844.22 | 6.2960 | A   | 0.6 |
| 8 | <input type="checkbox"/> |          |            | 11716.43    | 0.0039 | P   | 1.8 |

$$y = 0.0013 * x + 1.2802E-004$$

$$R = 0.9999$$

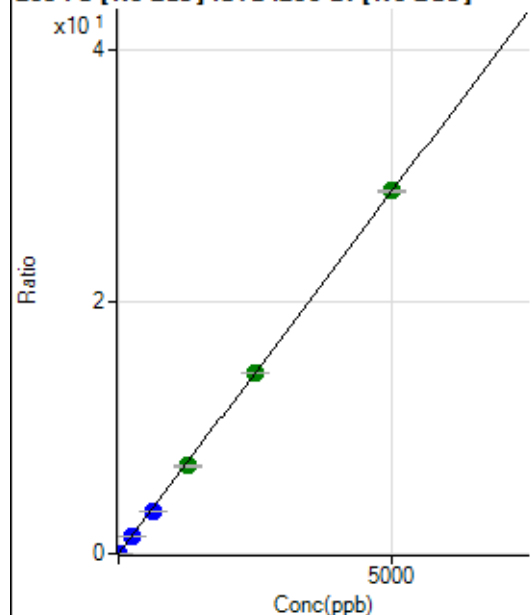
$$DL = 0.01191$$

$$BEC = 0.1021$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio   | Det. | RSD |
|---|--------------------------|----------|------------|-------------|---------|------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 2105.66     | 0.0006  | P    | 2.4 |
| 2 | <input type="checkbox"/> | 1.000    | 0.931      | 21179.21    | 0.0059  | P    | 2.0 |
| 3 | <input type="checkbox"/> | 250.000  | 236.860    | 4816327.69  | 1.3604  | P    | 0.8 |
| 4 | <input type="checkbox"/> | 625.000  | 587.208    | 11970692.39 | 3.3718  | P    | 0.3 |
| 5 | <input type="checkbox"/> | 1250.000 | 1211.624   | 24285988.62 | 6.9566  | A    | 0.6 |
| 6 | <input type="checkbox"/> | 2500.000 | 2499.023   | 48808162.09 | 14.3477 | A    | 0.3 |
| 7 | <input type="checkbox"/> | 5000.000 | 5015.464   | 96528056.10 | 28.7948 | A    | 0.6 |
| 8 | <input type="checkbox"/> |          |            | 54023.33    | 0.0179  | P    | 0.6 |

$$y = 0.0057 * x + 5.8932E-004$$

$$R = 1.0000$$

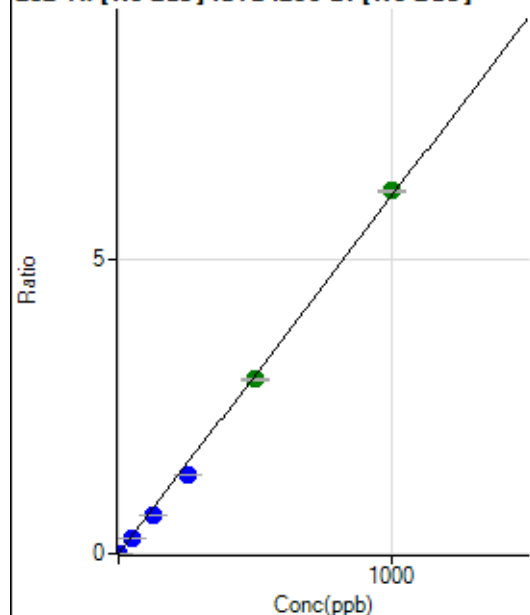
$$DL = 0.007402$$

$$BEC = 0.1027$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 94.45       | 0.0000 | P    | 15.4 |
| 2 | <input type="checkbox"/> | 1.000    | -0.001     | 72.23       | 0.0000 | P    | 35.4 |
| 3 | <input type="checkbox"/> | 50.000   | 43.555     | 937821.46   | 0.2649 | P    | 0.8  |
| 4 | <input type="checkbox"/> | 125.000  | 109.008    | 2353549.20  | 0.6629 | P    | 0.8  |
| 5 | <input type="checkbox"/> | 250.000  | 222.647    | 4726915.64  | 1.3540 | P    | 0.2  |
| 6 | <input type="checkbox"/> | 500.000  | 488.158    | 10098577.19 | 2.9686 | A    | 1.1  |
| 7 | <input type="checkbox"/> | 1000.000 | 1015.081   | 20693683.10 | 6.1730 | A    | 0.5  |
| 8 | <input type="checkbox"/> |          |            | 6083.03     | 0.0020 | P    | 10.3 |

$$y = 0.0061 * x + 2.6431E-005$$

$$R = 0.9995$$

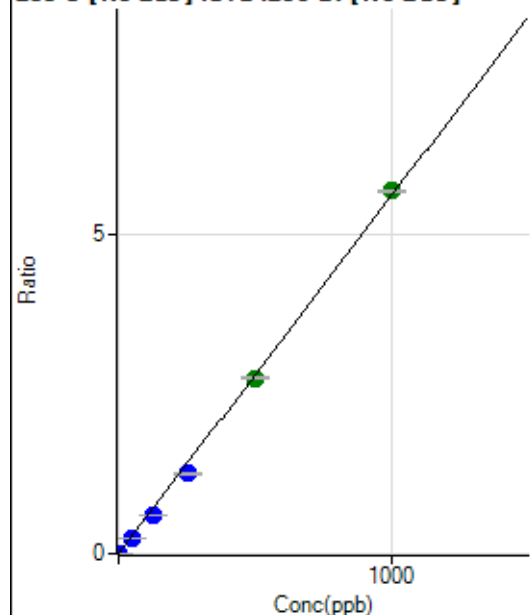
$$DL = 0.002005$$

$$BEC = 0.004346$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 8.33        | 0.0000 | P   | 100. |
| 2 | <input type="checkbox"/> | 1.000    | 0.858      | 17178.57    | 0.0048 | P   | 1.5  |
| 3 | <input type="checkbox"/> | 50.000   | 43.772     | 869627.86   | 0.2456 | P   | 0.4  |
| 4 | <input type="checkbox"/> | 125.000  | 109.950    | 2190482.62  | 0.6170 | P   | 0.1  |
| 5 | <input type="checkbox"/> | 250.000  | 223.016    | 4368982.74  | 1.2515 | P   | 0.2  |
| 6 | <input type="checkbox"/> | 500.000  | 490.855    | 9370010.11  | 2.7545 | A   | 0.9  |
| 7 | <input type="checkbox"/> | 1000.000 | 1013.511   | 19066112.93 | 5.6874 | A   | 0.8  |
| 8 | <input type="checkbox"/> |          |            | 3219.94     | 0.0011 | P   | 7.6  |

$$y = 0.0056 * x + 2.3390E-006$$

$$R = 0.9995$$

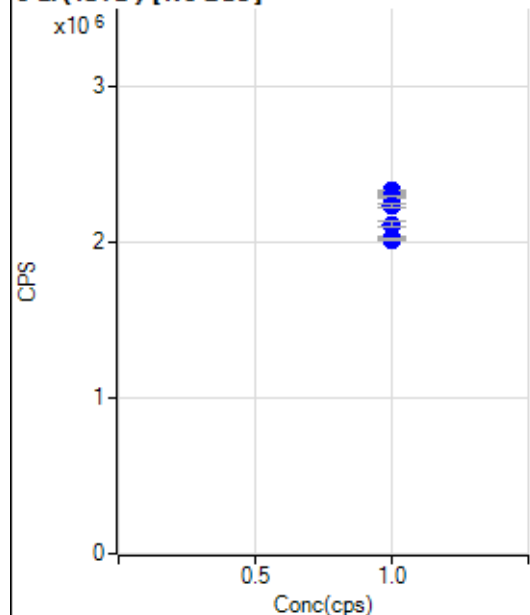
$$DL = 0.001254$$

$$BEC = 0.0004168$$

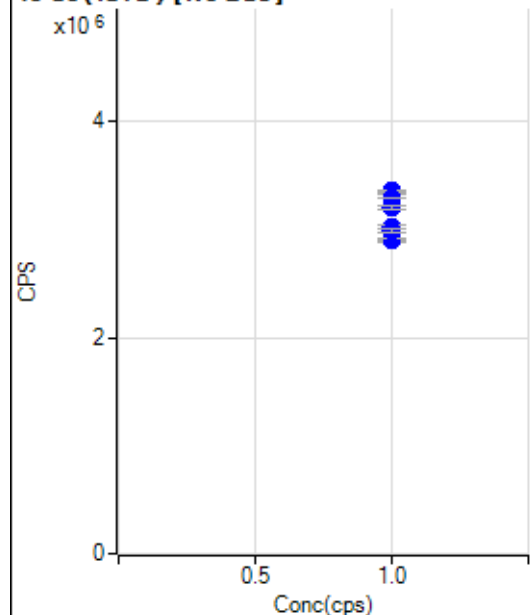
Weight: &lt;None&gt;

Min Conc: 0

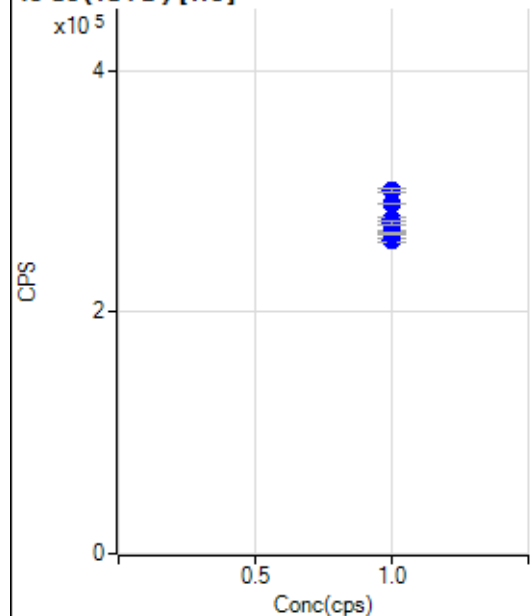
6 Li (ISTD) [No Gas]



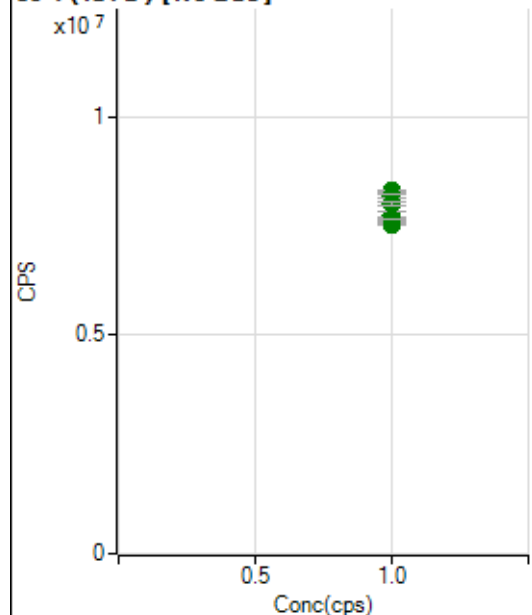
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det | RSD |
|---|--------------------------|-------|------------|------------|-------|-----|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 2318581.82 |       | P   | 0.6 |
| 2 | <input type="checkbox"/> | 1.000 |            | 2330451.63 |       | P   | 0.3 |
| 3 | <input type="checkbox"/> | 1.000 |            | 2293174.74 |       | P   | 0.2 |
| 4 | <input type="checkbox"/> | 1.000 |            | 2237195.16 |       | P   | 1.0 |
| 5 | <input type="checkbox"/> | 1.000 |            | 2117745.54 |       | P   | 1.3 |
| 6 | <input type="checkbox"/> | 1.000 |            | 2030863.44 |       | P   | 0.8 |
| 7 | <input type="checkbox"/> | 1.000 |            | 2019416.79 |       | P   | 0.2 |
| 8 | <input type="checkbox"/> | 1.000 |            | 2023260.72 |       | P   | 0.7 |

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

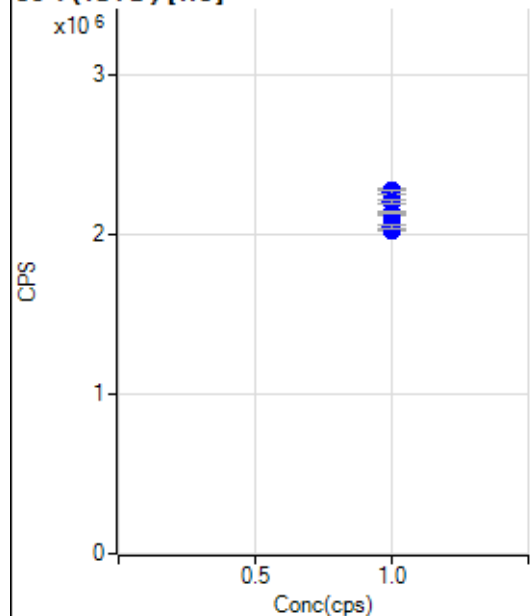
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 3340408.18 |       | P        | 0.5 |
| 2 | <input type="checkbox"/> | 1.000 |            | 3355505.16 |       | P        | 0.2 |
| 3 | <input type="checkbox"/> | 1.000 |            | 3290611.79 |       | P        | 0.3 |
| 4 | <input type="checkbox"/> | 1.000 |            | 3200342.11 |       | P        | 1.1 |
| 5 | <input type="checkbox"/> | 1.000 |            | 3026379.85 |       | P        | 0.9 |
| 6 | <input type="checkbox"/> | 1.000 |            | 2898694.85 |       | P        | 0.6 |
| 7 | <input type="checkbox"/> | 1.000 |            | 2910972.56 |       | P        | 0.1 |
| 8 | <input type="checkbox"/> | 1.000 |            | 2986233.57 |       | P        | 1.2 |

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

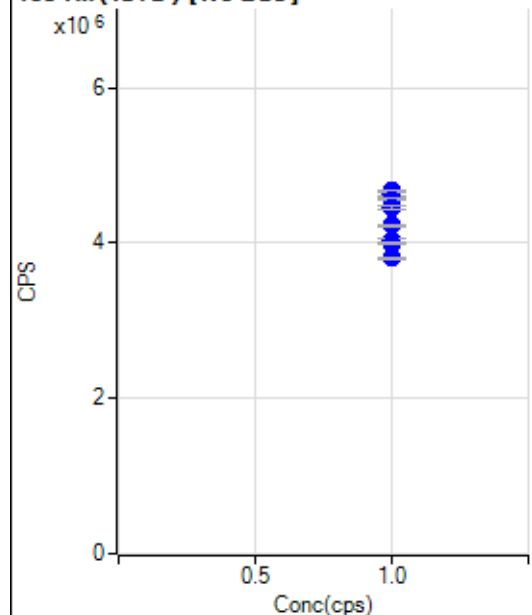
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS       | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-----------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 300066.05 |       | P        | 1.1 |
| 2 | <input type="checkbox"/> | 1.000 |            | 300067.26 |       | P        | 1.1 |
| 3 | <input type="checkbox"/> | 1.000 |            | 289815.42 |       | P        | 0.2 |
| 4 | <input type="checkbox"/> | 1.000 |            | 276405.59 |       | P        | 0.9 |
| 5 | <input type="checkbox"/> | 1.000 |            | 266103.33 |       | P        | 0.7 |
| 6 | <input type="checkbox"/> | 1.000 |            | 259377.89 |       | P        | 0.7 |
| 7 | <input type="checkbox"/> | 1.000 |            | 264635.28 |       | P        | 0.4 |
| 8 | <input type="checkbox"/> | 1.000 |            | 273221.12 |       | P        | 1.0 |

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

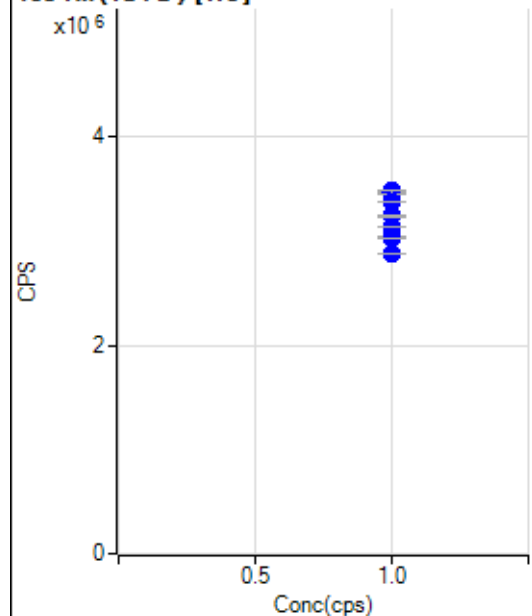
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 8206909.81 |       | A        | 1.2 |
| 2 | <input type="checkbox"/> | 1.000 |            | 8307731.27 |       | A        | 0.6 |
| 3 | <input type="checkbox"/> | 1.000 |            | 8187779.53 |       | A        | 1.4 |
| 4 | <input type="checkbox"/> | 1.000 |            | 8015085.78 |       | A        | 0.6 |
| 5 | <input type="checkbox"/> | 1.000 |            | 7758448.56 |       | A        | 1.7 |
| 6 | <input type="checkbox"/> | 1.000 |            | 7548114.61 |       | A        | 0.7 |
| 7 | <input type="checkbox"/> | 1.000 |            | 7598177.60 |       | A        | 0.3 |
| 8 | <input type="checkbox"/> | 1.000 |            | 7662025.16 |       | A        | 0.5 |

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

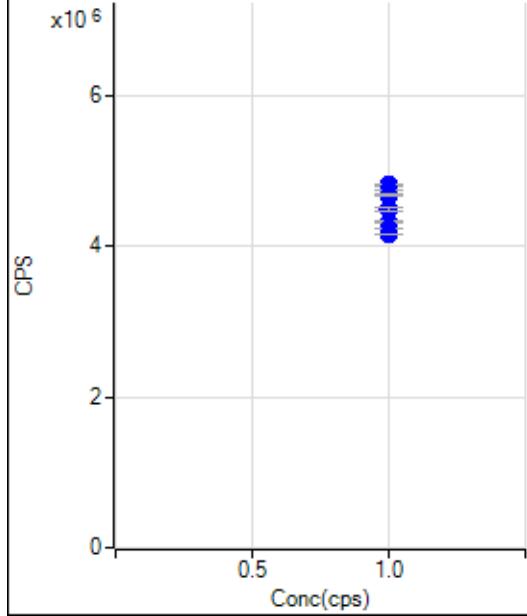
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 2277555.57 |       | P        | 1.4 |
| 2 | <input type="checkbox"/> | 1.000 |            | 2266116.84 |       | P        | 1.1 |
| 3 | <input type="checkbox"/> | 1.000 |            | 2209553.65 |       | P        | 0.8 |
| 4 | <input type="checkbox"/> | 1.000 |            | 2128843.49 |       | P        | 0.3 |
| 5 | <input type="checkbox"/> | 1.000 |            | 2064030.56 |       | P        | 0.5 |
| 6 | <input type="checkbox"/> | 1.000 |            | 2034001.08 |       | P        | 0.8 |
| 7 | <input type="checkbox"/> | 1.000 |            | 2051996.05 |       | P        | 0.6 |
| 8 | <input type="checkbox"/> | 1.000 |            | 2140214.71 |       | P        | 0.9 |

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

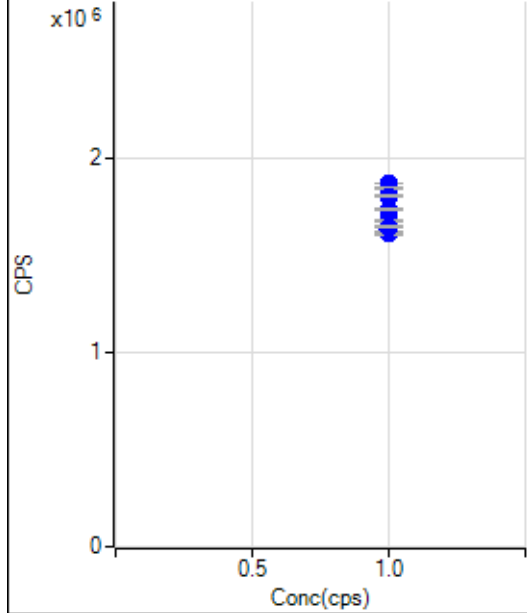
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 4630628.92 |       | P        | 0.7 |
| 2 | <input type="checkbox"/> | 1.000 |            | 4670918.78 |       | P        | 0.3 |
| 3 | <input type="checkbox"/> | 1.000 |            | 4566088.51 |       | P        | 0.3 |
| 4 | <input type="checkbox"/> | 1.000 |            | 4463267.78 |       | P        | 1.0 |
| 5 | <input type="checkbox"/> | 1.000 |            | 4226313.20 |       | P        | 0.6 |
| 6 | <input type="checkbox"/> | 1.000 |            | 4036846.92 |       | P        | 0.7 |
| 7 | <input type="checkbox"/> | 1.000 |            | 3996367.82 |       | P        | 0.1 |
| 8 | <input type="checkbox"/> | 1.000 |            | 3802034.73 |       | P        | 0.2 |

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

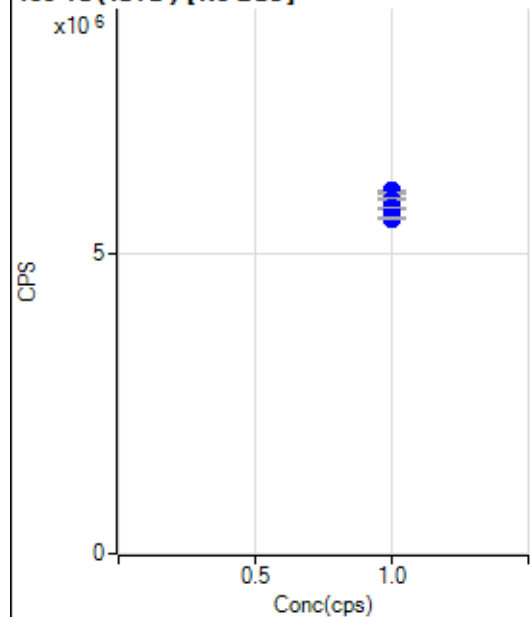
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 3478434.74 |       | P        | 0.3 |
| 2 | <input type="checkbox"/> | 1.000 |            | 3467422.07 |       | P        | 0.9 |
| 3 | <input type="checkbox"/> | 1.000 |            | 3373082.00 |       | P        | 0.5 |
| 4 | <input type="checkbox"/> | 1.000 |            | 3236435.12 |       | P        | 0.5 |
| 5 | <input type="checkbox"/> | 1.000 |            | 3130903.11 |       | P        | 0.4 |
| 6 | <input type="checkbox"/> | 1.000 |            | 3037853.01 |       | P        | 0.8 |
| 7 | <input type="checkbox"/> | 1.000 |            | 3019572.70 |       | P        | 0.1 |
| 8 | <input type="checkbox"/> | 1.000 |            | 2879844.37 |       | P        | 0.3 |

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

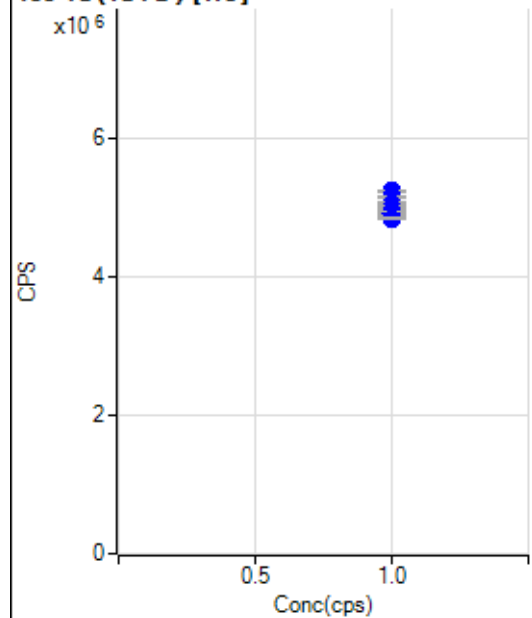
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 4807023.38 |       | P        | 0.5 |
| 2 | <input type="checkbox"/> | 1.000 |            | 4810334.01 |       | P        | 0.1 |
| 3 | <input type="checkbox"/> | 1.000 |            | 4740368.35 |       | P        | 0.2 |
| 4 | <input type="checkbox"/> | 1.000 |            | 4676948.03 |       | P        | 0.8 |
| 5 | <input type="checkbox"/> | 1.000 |            | 4483447.77 |       | P        | 1.2 |
| 6 | <input type="checkbox"/> | 1.000 |            | 4320316.80 |       | P        | 0.6 |
| 7 | <input type="checkbox"/> | 1.000 |            | 4239473.58 |       | P        | 0.1 |
| 8 | <input type="checkbox"/> | 1.000 |            | 4154854.00 |       | P        | 0.5 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 1868233.16 |       | P        | 0.1 |
| 2 | <input type="checkbox"/> | 1.000 |            | 1848567.49 |       | P        | 0.2 |
| 3 | <input type="checkbox"/> | 1.000 |            | 1804594.26 |       | P        | 0.3 |
| 4 | <input type="checkbox"/> | 1.000 |            | 1736847.31 |       | P        | 0.3 |
| 5 | <input type="checkbox"/> | 1.000 |            | 1679185.59 |       | P        | 0.5 |
| 6 | <input type="checkbox"/> | 1.000 |            | 1636983.22 |       | P        | 1.1 |
| 7 | <input type="checkbox"/> | 1.000 |            | 1612212.04 |       | P        | 0.5 |
| 8 | <input type="checkbox"/> | 1.000 |            | 1646823.70 |       | P        | 0.6 |

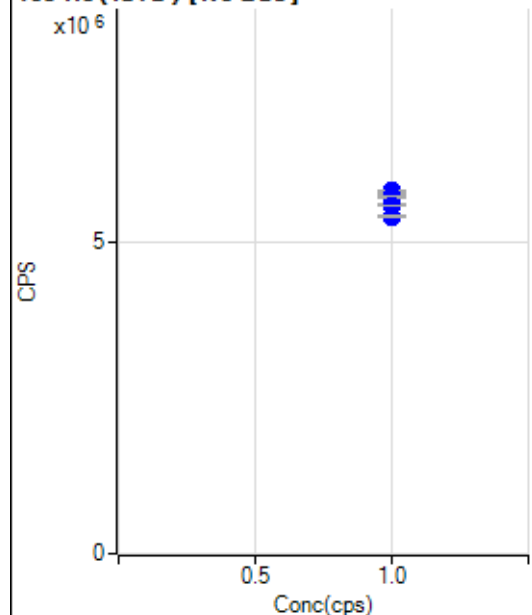
**159 Tb (ISTD) [No Gas]**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 6022335.95 |       | P        | 0.5 |
| 2 | <input type="checkbox"/> | 1.000 |            | 6028764.28 |       | P        | 0.8 |
| 3 | <input type="checkbox"/> | 1.000 |            | 5998147.62 |       | P        | 0.3 |
| 4 | <input type="checkbox"/> | 1.000 |            | 5986726.99 |       | P        | 0.2 |
| 5 | <input type="checkbox"/> | 1.000 |            | 5881213.18 |       | P        | 0.6 |
| 6 | <input type="checkbox"/> | 1.000 |            | 5729187.13 |       | P        | 0.3 |
| 7 | <input type="checkbox"/> | 1.000 |            | 5756708.94 |       | P        | 0.4 |
| 8 | <input type="checkbox"/> | 1.000 |            | 5569457.83 |       | P        | 0.6 |

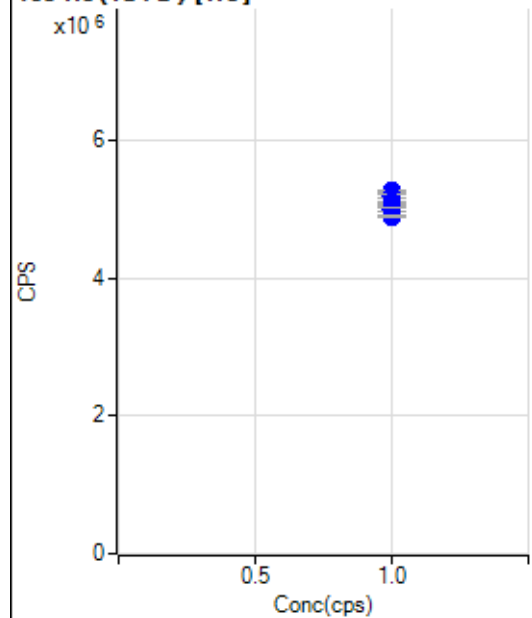
**159 Tb (ISTD) [He]**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 5230764.05 |       | P        | 0.6 |
| 2 | <input type="checkbox"/> | 1.000 |            | 5247876.24 |       | P        | 0.3 |
| 3 | <input type="checkbox"/> | 1.000 |            | 5162804.85 |       | P        | 0.5 |
| 4 | <input type="checkbox"/> | 1.000 |            | 5072724.75 |       | P        | 0.2 |
| 5 | <input type="checkbox"/> | 1.000 |            | 5013150.41 |       | P        | 0.4 |
| 6 | <input type="checkbox"/> | 1.000 |            | 4947988.99 |       | P        | 0.7 |
| 7 | <input type="checkbox"/> | 1.000 |            | 4930243.29 |       | P        | 1.1 |
| 8 | <input type="checkbox"/> | 1.000 |            | 4844931.31 |       | P        | 0.4 |

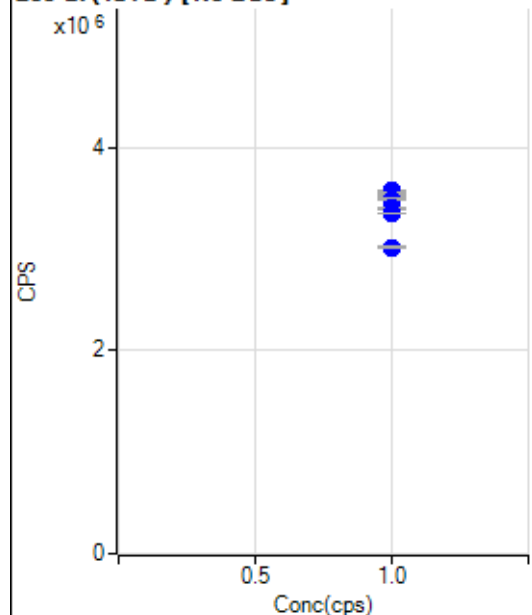


**165 Ho (ISTD) [No Gas]**

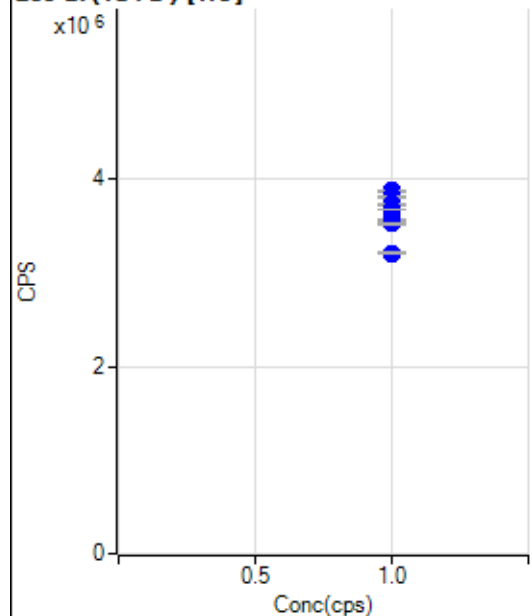
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 5822662.00 |       | P        | 0.3 |
| 2 | <input type="checkbox"/> | 1.000 |            | 5825426.30 |       | P        | 0.2 |
| 3 | <input type="checkbox"/> | 1.000 |            | 5795383.11 |       | P        | 0.3 |
| 4 | <input type="checkbox"/> | 1.000 |            | 5835375.75 |       | P        | 0.6 |
| 5 | <input type="checkbox"/> | 1.000 |            | 5741353.73 |       | P        | 0.9 |
| 6 | <input type="checkbox"/> | 1.000 |            | 5612938.25 |       | P        | 0.9 |
| 7 | <input type="checkbox"/> | 1.000 |            | 5603895.54 |       | P        | 0.3 |
| 8 | <input type="checkbox"/> | 1.000 |            | 5426303.39 |       | P        | 0.7 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 5262778.32 |       | P        | 0.4 |
| 2 | <input type="checkbox"/> | 1.000 |            | 5252695.10 |       | P        | 0.4 |
| 3 | <input type="checkbox"/> | 1.000 |            | 5188491.80 |       | P        | 0.5 |
| 4 | <input type="checkbox"/> | 1.000 |            | 5101392.15 |       | P        | 0.2 |
| 5 | <input type="checkbox"/> | 1.000 |            | 5064406.77 |       | P        | 0.7 |
| 6 | <input type="checkbox"/> | 1.000 |            | 4988865.55 |       | P        | 1.0 |
| 7 | <input type="checkbox"/> | 1.000 |            | 5019234.02 |       | P        | 0.3 |
| 8 | <input type="checkbox"/> | 1.000 |            | 4892846.94 |       | P        | 0.1 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 3572745.16 |       | P        | 0.5 |
| 2 | <input type="checkbox"/> | 1.000 |            | 3567195.43 |       | P        | 0.4 |
| 3 | <input type="checkbox"/> | 1.000 |            | 3540438.77 |       | P        | 0.6 |
| 4 | <input type="checkbox"/> | 1.000 |            | 3550253.73 |       | P        | 0.3 |
| 5 | <input type="checkbox"/> | 1.000 |            | 3491079.57 |       | P        | 0.2 |
| 6 | <input type="checkbox"/> | 1.000 |            | 3401810.12 |       | P        | 0.6 |
| 7 | <input type="checkbox"/> | 1.000 |            | 3352332.90 |       | P        | 0.5 |
| 8 | <input type="checkbox"/> | 1.000 |            | 3013334.54 |       | P        | 0.5 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 3864565.91 |       | P        | 0.7 |
| 2 | <input type="checkbox"/> | 1.000 |            | 3871294.28 |       | P        | 0.4 |
| 3 | <input type="checkbox"/> | 1.000 |            | 3808840.29 |       | P        | 0.7 |
| 4 | <input type="checkbox"/> | 1.000 |            | 3731685.08 |       | P        | 0.5 |
| 5 | <input type="checkbox"/> | 1.000 |            | 3672281.16 |       | P        | 0.3 |
| 6 | <input type="checkbox"/> | 1.000 |            | 3560393.39 |       | P        | 0.9 |
| 7 | <input type="checkbox"/> | 1.000 |            | 3521955.09 |       | P        | 0.9 |
| 8 | <input type="checkbox"/> | 1.000 |            | 3209845.54 |       | P        | 0.5 |

US EPA Tune Check Sample Report

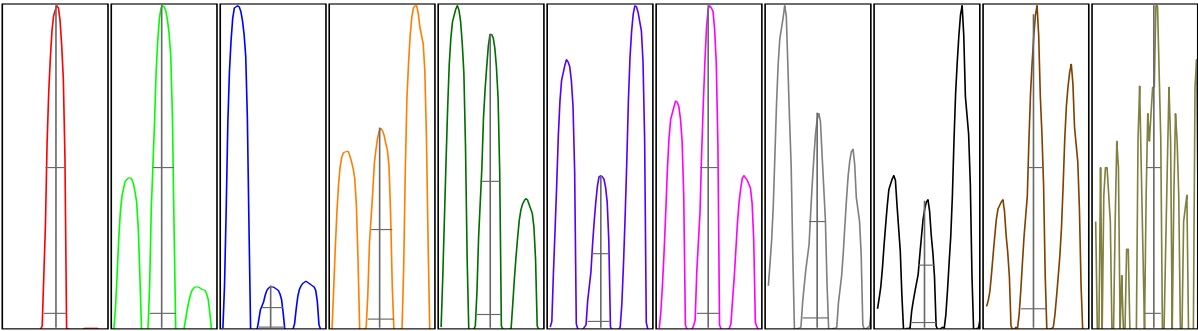
Batch Folder C:\Agilent\ICPMH\1\DATA\P7101621 MS.b  
Report Comment  
Instrument Name G8403A JP14410463

[No Gas]

| Mass | Count<br>(Mean) | RSD%<br>(Actual) | RSD%<br>(Required) | RSD%<br>(Flag) |
|------|-----------------|------------------|--------------------|----------------|
| 9    | 10570           | 0.33             | 5.00               |                |
| 24   | 76942           | 0.53             | 5.00               |                |
| 25   | 10446           | 0.24             | 5.00               |                |
| 26   | 11267           | 0.62             | 5.00               |                |
| 59   | 19209           | 0.52             | 5.00               |                |
| 113  | 9419            | 0.59             | 5.00               |                |
| 115  | 27951           | 0.78             | 5.00               |                |
| 206  | 11419           | 0.54             | 5.00               |                |
| 207  | 9573            | 0.76             | 5.00               |                |
| 208  | 23565           | 0.78             | 5.00               |                |
| 220  | 0               | 64.95            |                    |                |

|      | Replicate 1<br>Count | Replicate 2<br>Count | Replicate 3<br>Count | Replicate 4<br>Count | Replicate 5<br>Count |
|------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Mass |                      |                      |                      |                      |                      |
| 9    | 10585                | 10565                | 10513                | 10576                | 10608                |
| 24   | 77513                | 76866                | 76519                | 77188                | 76626                |
| 25   | 10464                | 10461                | 10468                | 10421                | 10415                |
| 26   | 11359                | 11220                | 11185                | 11310                | 11260                |
| 59   | 19333                | 19257                | 19202                | 19193                | 19060                |
| 113  | 9473                 | 9475                 | 9405                 | 9345                 | 9397                 |
| 115  | 28270                | 28049                | 27917                | 27797                | 27720                |
| 206  | 11454                | 11416                | 11497                | 11396                | 11334                |
| 207  | 9666                 | 9594                 | 9522                 | 9602                 | 9482                 |
| 208  | 23811                | 23702                | 23427                | 23505                | 23379                |
| 220  | 0                    | 0                    | 1                    | 0                    | 0                    |

Integration Time [sec] = 0.1



| Mass | Peak<br>Height | Axis<br>(Actual) | Axis<br>(Required) | Axis<br>(Flag) | Width-X%<br>(Actual) | Width-X%<br>(Required) | Width-<br>X%<br>(Flag) |
|------|----------------|------------------|--------------------|----------------|----------------------|------------------------|------------------------|
| 9    | 19697          | 9.05             | 8.9 - 9.1          |                | 0.689                | 0.900                  |                        |
| 24   | 133285         | 23.95            | 23.9 - 24.1        |                | 0.774                | 0.900                  |                        |
| 25   | 17561          | 24.95            | 24.9 - 25.1        |                | 0.782                | 0.900                  |                        |
| 26   | 19783          | 25.95            | 25.9 - 26.1        |                | 0.776                | 0.900                  |                        |
| 59   | 35901          | 59.00            | 58.9 - 59.1        |                | 0.729                | 0.900                  |                        |
| 113  | 18412          | 113.05           | 112.9 - 113.1      |                | 0.691                | 0.900                  |                        |
| 115  | 55423          | 115.00           | 114.9 - 115.1      |                | 0.689                | 0.900                  |                        |
| 206  | 25005          | 206.00           | 205.9 - 206.1      |                | 0.768                | 0.900                  |                        |
| 207  | 20616          | 206.95           | 206.9 - 207.1      |                | 0.730                | 0.900                  |                        |
| 208  | 51149          | 207.95           | 207.9 - 208.1      |                | 0.768                | 0.900                  |                        |
| 220  | 1              | 220.30           | -                  |                | 0.490                |                        |                        |

X% = 5 Integration Time [sec] = 0.1 Acquisition Time [sec] = 256.8 Y Axis = Linear

Tune Parameters

## Plasma Paramters ##

| ParameterName | Value | Unit | ParameterName  | Value | Unit  | ParameterName       | Value | Unit         |
|---------------|-------|------|----------------|-------|-------|---------------------|-------|--------------|
| RF Power      | 1600  | W    | Carrier Gas    | 0.72  | L/min | S/C Temp            |       | 2 °C         |
| RF Matching   | 1.80  | V    | Option Gas     | 0.0   | %     | Gas Switch          |       | Dilution Gas |
| Smpl Depth    | 9.0   | mm   | Nebulizer Pump | 0.10  | rpm   | Makeup/Dilution Gas |       | 0.42 L/min   |

## Lenses Parameters ##

| ParameterName | Value  | Unit | ParameterName | Value | Unit | ParameterName | Value | Unit |
|---------------|--------|------|---------------|-------|------|---------------|-------|------|
| Extract 1     | 0.0    | V    | Omega Lens    | 10.5  | V    | Deflect       | 13.6  | V    |
| Extract 2     | -250.0 | V    | Cell Entrance | -30   | V    | Plate Bias    | -35   | V    |
| Omega Bias    | -90    | V    | Cell Exit     | -50   | V    |               |       |      |

## Cell Parameters ##

| ParameterName | Value | Unit   | ParameterName | Value | Unit | ParameterName         | Value | Unit  |
|---------------|-------|--------|---------------|-------|------|-----------------------|-------|-------|
| Use Gas       | No    |        | OctP Bias     | -8.0  | V    | Energy Discrimination |       | 5.0 V |
| He Flow       | 0.0   | mL/min | OctP RF       | 140   | V    |                       |       |       |

[He]

| Mass | Count<br>(Mean) | RSD%<br>(Actual) | RSD%<br>(Required) |
|------|-----------------|------------------|--------------------|
| 59   | 7815            | 0.60             |                    |
| 89   | 30336           | 0.52             |                    |
| 205  | 17254           | 0.60             |                    |

|      | Replicate 1<br>Count | Replicate 2<br>Count | Replicate 3<br>Count | Replicate 4<br>Count | Replicate 5<br>Count |
|------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Mass |                      |                      |                      |                      |                      |
| 59   | 7755                 | 7807                 | 7885                 | 7806                 | 7825                 |
| 89   | 30068                | 30368                | 30483                | 30359                | 30402                |
| 205  | 17116                | 17208                | 17391                | 17308                | 17248                |

Integration Time [sec] = 0.1

Tune Parameters

## Plasma Paramters ##

| ParameterName | Value | Unit | ParameterName  | Value | Unit  | ParameterName       | Value | Unit         |
|---------------|-------|------|----------------|-------|-------|---------------------|-------|--------------|
| RF Power      | 1600  | W    | Carrier Gas    | 0.72  | L/min | S/C Temp            |       | 2 °C         |
| RF Matching   | 1.80  | V    | Option Gas     | 0.0   | %     | Gas Switch          |       | Dilution Gas |
| Smpl Depth    | 9.0   | mm   | Nebulizer Pump | 0.10  | rpm   | Makeup/Dilution Gas |       | 0.42 L/min   |

## Lenses Parameters ##

| ParameterName | Value  | Unit | ParameterName | Value | Unit | ParameterName | Value | Unit |
|---------------|--------|------|---------------|-------|------|---------------|-------|------|
| Extract 1     | 0.0    | V    | Omega Lens    | 11.0  | V    | Deflect       | 2.6   | V    |
| Extract 2     | -210.0 | V    | Cell Entrance | -40   | V    | Plate Bias    | -60   | V    |
| Omega Bias    | -95    | V    | Cell Exit     | -60   | V    |               |       |      |

## Cell Parameters ##

| ParameterName | Value | Unit   | ParameterName | Value | Unit | ParameterName         | Value | Unit  |
|---------------|-------|--------|---------------|-------|------|-----------------------|-------|-------|
| Use Gas       | Yes   |        | OctP Bias     | -18.0 | V    | Energy Discrimination |       | 5.0 V |
| He Flow       | 3.9   | mL/min | OctP RF       | 200   | V    |                       |       |       |