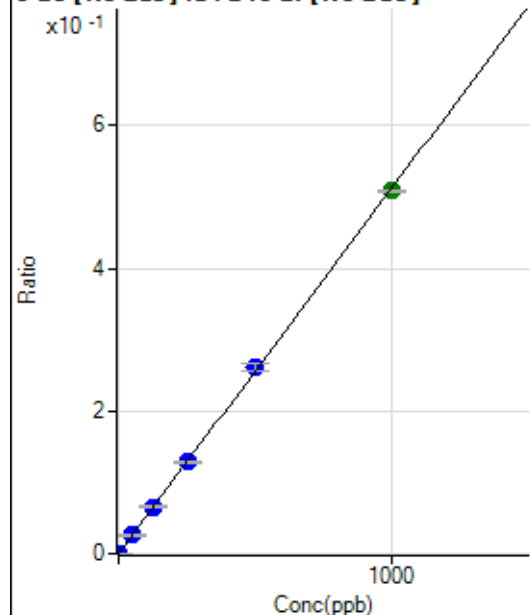


Batch Folder: D:\P8072318MS.b\  
Analysis File: P8072318MS.batch.bin  
DA Date-Time: 2018-07-23 19:20:21  
Calibration Title:  
Calibration Method: External Calibration  
VIS Interpolation Fit:

| Level | Standard Data File | Sample Name | Acq. Date-Time      |
|-------|--------------------|-------------|---------------------|
| 1     | 003CALB.d          | S00         | 2018-07-23 13:27:57 |
| 2     |                    |             |                     |
| 3     | 005CALS.d          | S02         | 2018-07-23 13:35:23 |
| 4     | 006CALS.d          | S03         | 2018-07-23 13:39:05 |
| 5     | 007CALS.d          | S04         | 2018-07-23 13:42:46 |
| 6     | 008CALS.d          | S05         | 2018-07-23 13:46:20 |
| 7     | 009CALS.d          | S06         | 2018-07-23 13:49:50 |
| 8     | 010CALS.d          | S07         | 2018-07-23 13:53:16 |
| 9     | 011CALS.d          | S08         | 2018-07-23 13:56:37 |

**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      | 137.04     | 0.0001 | P   | 9.0  |
| 2 | <input type="checkbox"/> | 0.100    |            |            |        |     |      |
| 3 | <input type="checkbox"/> | 1.000    | 0.995      | 1396.40    | 0.0006 | P   | 11.3 |
| 4 | <input type="checkbox"/> | 50.000   | 50.322     | 67515.49   | 0.0258 | P   | 1.9  |
| 5 | <input type="checkbox"/> | 125.000  | 128.843    | 161353.04  | 0.0660 | P   | 6.6  |
| 6 | <input type="checkbox"/> | 250.000  | 250.352    | 321612.01  | 0.1281 | P   | 0.5  |
| 7 | <input type="checkbox"/> | 500.000  | 511.464    | 639405.31  | 0.2617 | P   | 4.2  |
| 8 | <input type="checkbox"/> | 1000.000 | 993.683    | 1262707.71 | 0.5084 | A   | 0.6  |
| 9 | <input type="checkbox"/> |          |            | 718.56     | 0.0003 | P   | 15.3 |

$$y = 5.1155\text{E-}004 * x + 5.3595\text{E-}005$$

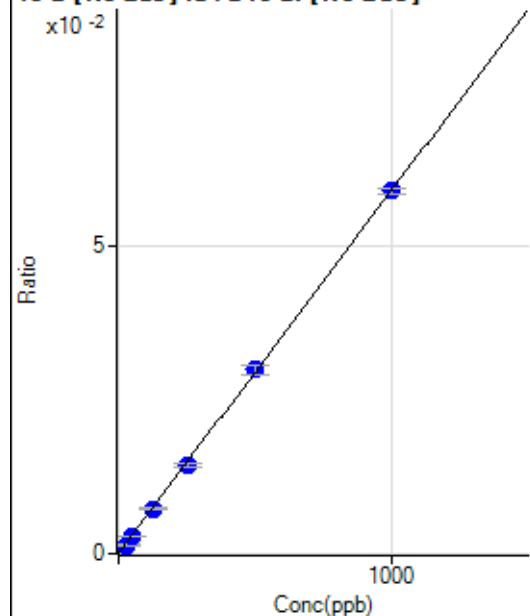
$$R = 0.9999$$

$$DL = 0.0282$$

$$BEC = 0.1048$$

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      | 177.79    | 0.0001 | P   | 10.0 |
| 2 | <input type="checkbox"/> | 2.500    |            |           |        |     |      |
| 3 | <input type="checkbox"/> | 25.000   | 22.338     | 3433.89   | 0.0014 | P   | 6.2  |
| 4 | <input type="checkbox"/> | 50.000   | 47.216     | 7446.66   | 0.0028 | P   | 3.6  |
| 5 | <input type="checkbox"/> | 125.000  | 122.647    | 17820.03  | 0.0073 | P   | 5.6  |
| 6 | <input type="checkbox"/> | 250.000  | 244.193    | 36213.46  | 0.0144 | P   | 3.5  |
| 7 | <input type="checkbox"/> | 500.000  | 505.933    | 72809.95  | 0.0298 | P   | 5.5  |
| 8 | <input type="checkbox"/> | 1000.000 | 998.985    | 146033.73 | 0.0588 | P   | 1.5  |
| 9 | <input type="checkbox"/> |          |            | 7266.03   | 0.0029 | P   | 10.6 |

$$y = 5.8784\text{E-}005 * x + 6.9523\text{E-}005$$

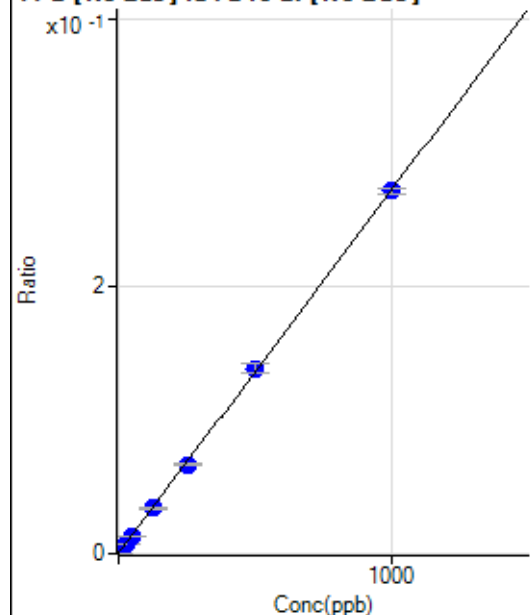
$$R = 1.0000$$

$$DL = 0.3557$$

$$BEC = 1.183$$

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      | 1008.42   | 0.0004 | P   | 9.2 |
| 2 | <input type="checkbox"/> | 2.500    |            |           |        |     |     |
| 3 | <input type="checkbox"/> | 25.000   | 23.270     | 16682.48  | 0.0067 | P   | 4.0 |
| 4 | <input type="checkbox"/> | 50.000   | 47.576     | 34854.71  | 0.0133 | P   | 3.1 |
| 5 | <input type="checkbox"/> | 125.000  | 124.075    | 83442.19  | 0.0341 | P   | 5.3 |
| 6 | <input type="checkbox"/> | 250.000  | 243.369    | 166937.36 | 0.0665 | P   | 2.7 |
| 7 | <input type="checkbox"/> | 500.000  | 507.933    | 338001.83 | 0.1384 | P   | 5.0 |
| 8 | <input type="checkbox"/> | 1000.000 | 997.971    | 674259.52 | 0.2715 | P   | 1.9 |
| 9 | <input type="checkbox"/> |          |            | 32585.28  | 0.0131 | P   | 7.0 |

$$y = 2.7161\text{E-}004 * x + 3.9424\text{E-}004$$

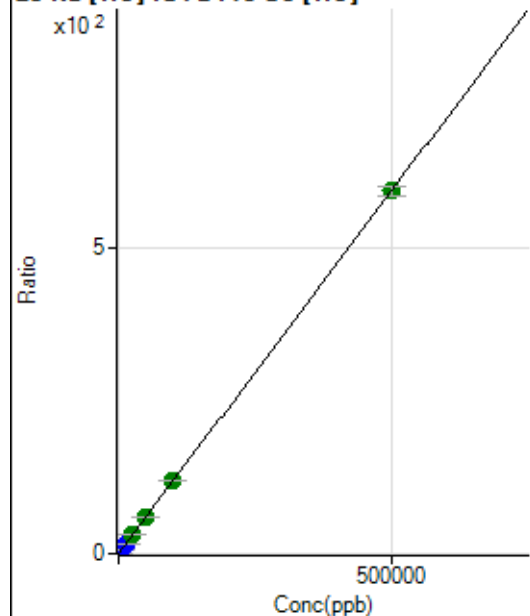
$$R = 0.9999$$

$$DL = 0.4008$$

$$BEC = 1.452$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS         | Ratio    | Det | RSD |
|---|--------------------------|-----------|------------|-------------|----------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 3731.22     | 0.0720   | P   | 4.2 |
| 2 | <input type="checkbox"/> | 50.000    |            |             |          |     |     |
| 3 | <input type="checkbox"/> | 500.000   | 500.078    | 34481.66    | 0.6672   | P   | 1.9 |
| 4 | <input type="checkbox"/> | 5000.000  | 4975.240   | 325263.90   | 5.9936   | P   | 0.4 |
| 5 | <input type="checkbox"/> | 12500.000 | 12684.312  | 772595.89   | 15.1691  | P   | 1.0 |
| 6 | <input type="checkbox"/> | 25000.000 | 25801.291  | 1575096.58  | 30.7812  | A   | 2.3 |
| 7 | <input type="checkbox"/> | 50000.000 | 49362.824  | 2985110.68  | 58.8246  | A   | 0.8 |
| 8 | <input type="checkbox"/> | 100000.00 | 100272.77  | 5993943.62  | 119.4186 | A   | 0.4 |
| 9 | <input type="checkbox"/> | 500000.00 | 499964.73  | 31518390.63 | 595.1400 | A   | 2.7 |

$$y = 0.0012 * x + 0.0720$$

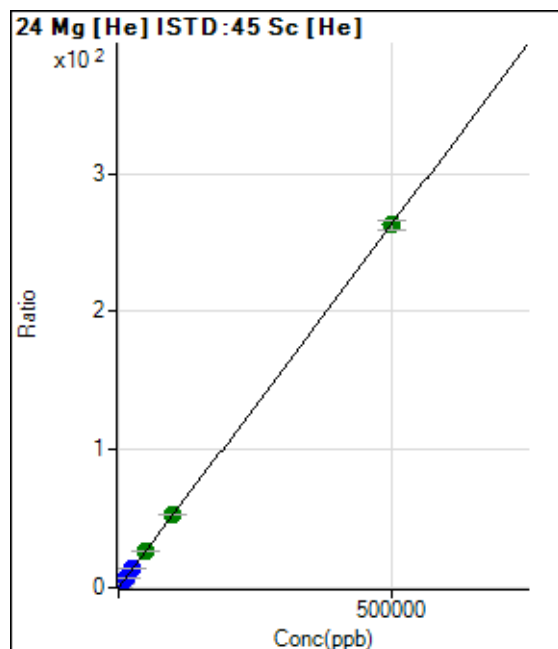
$$R = 1.0000$$

$$DL = 7.568$$

$$BEC = 60.45$$

Weight: &lt;None&gt;

Min Conc: 0



|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS         | Ratio    | Det | RSD  |
|---|--------------------------|-----------|------------|-------------|----------|-----|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 330.58      | 0.0064   | P   | 17.0 |
| 2 | <input type="checkbox"/> | 50.000    |            |             |          |     |      |
| 3 | <input type="checkbox"/> | 500.000   | 485.687    | 13532.02    | 0.2618   | P   | 1.8  |
| 4 | <input type="checkbox"/> | 5000.000  | 4943.287   | 141404.76   | 2.6059   | P   | 2.1  |
| 5 | <input type="checkbox"/> | 12500.000 | 12700.890  | 340512.82   | 6.6854   | P   | 0.9  |
| 6 | <input type="checkbox"/> | 25000.000 | 25542.706  | 687700.05   | 13.4385  | P   | 1.5  |
| 7 | <input type="checkbox"/> | 50000.000 | 50535.548  | 1348844.22  | 26.5815  | A   | 1.4  |
| 8 | <input type="checkbox"/> | 100000.00 | 100615.49  | 2656052.32  | 52.9171  | A   | 0.5  |
| 9 | <input type="checkbox"/> | 500000.00 | 499791.77  | 13919485.55 | 262.8321 | A   | 2.7  |

$$y = 5.2587\text{E-}004 * x + 0.0064$$

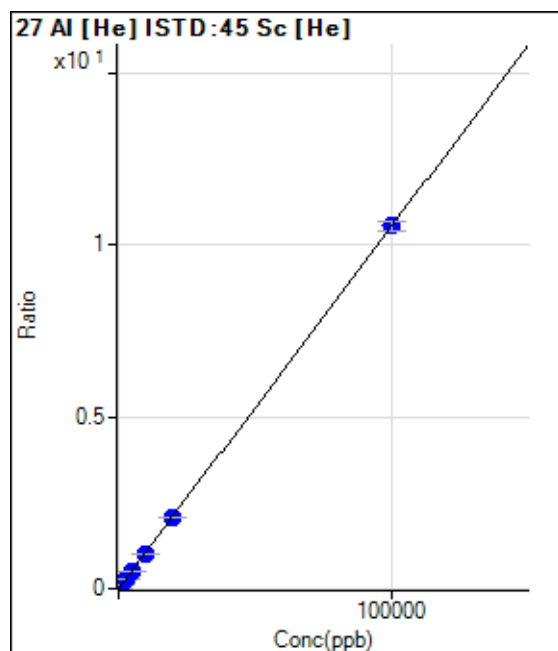
R = 1.0000

DL = 6.197

BEC = 12.15

Weight: <None>

Min Conc: 0



|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS       | Ratio   | Det | RSD  |
|---|--------------------------|-----------|------------|-----------|---------|-----|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 11.11     | 0.0002  | P   | 67.1 |
| 2 | <input type="checkbox"/> | 2.000     |            |           |         |     |      |
| 3 | <input type="checkbox"/> | 20.000    | 24.141     | 142.23    | 0.0028  | P   | 20.9 |
| 4 | <input type="checkbox"/> | 1000.000  | 968.926    | 5555.62   | 0.1024  | P   | 3.1  |
| 5 | <input type="checkbox"/> | 2500.000  | 2508.440   | 13483.22  | 0.2647  | P   | 2.0  |
| 6 | <input type="checkbox"/> | 5000.000  | 4995.184   | 26970.24  | 0.5270  | P   | 0.6  |
| 7 | <input type="checkbox"/> | 10000.000 | 9622.583   | 51502.91  | 1.0150  | P   | 2.0  |
| 8 | <input type="checkbox"/> | 20000.000 | 19507.551  | 103268.59 | 2.0574  | P   | 0.7  |
| 9 | <input type="checkbox"/> | 100000.00 | 100136.57  | 559294.50 | 10.5604 | P   | 2.6  |

$$y = 1.0546\text{E-}004 * x + 2.1232\text{E-}004$$

R = 1.0000

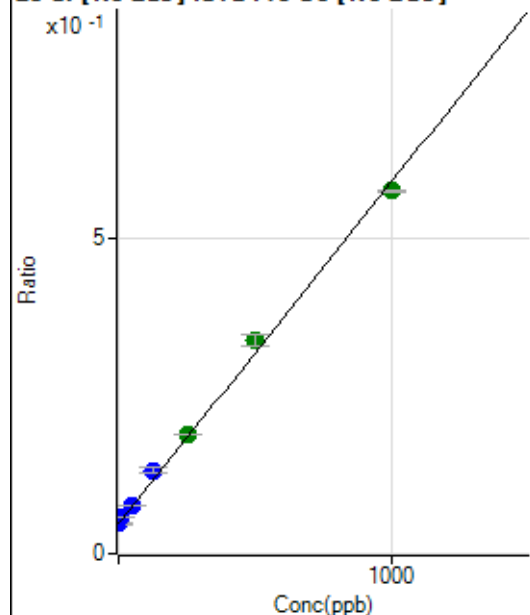
DL = 4.054

BEC = 2.013

Weight: <None>

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 347061.05  | 0.0475 | P   | 1.0 |
| 2 | <input type="checkbox"/> | 1.000    |            |            |        |     |     |
| 3 | <input type="checkbox"/> | 10.000   | 18.350     | 414219.47  | 0.0575 | P   | 1.9 |
| 4 | <input type="checkbox"/> | 50.000   | 53.501     | 577084.26  | 0.0765 | P   | 1.2 |
| 5 | <input type="checkbox"/> | 125.000  | 156.611    | 920899.71  | 0.1325 | P   | 8.4 |
| 6 | <input type="checkbox"/> | 250.000  | 261.400    | 1374640.82 | 0.1893 | A   | 1.2 |
| 7 | <input type="checkbox"/> | 500.000  | 539.083    | 2369368.95 | 0.3399 | A   | 5.4 |
| 8 | <input type="checkbox"/> | 1000.000 | 973.398    | 4161167.45 | 0.5755 | A   | 0.7 |
| 9 | <input type="checkbox"/> |          |            | 501925.32  | 0.0692 | P   | 2.0 |

$$y = 5.4242\text{E-}004 * x + 0.0475$$

$$R = 0.9984$$

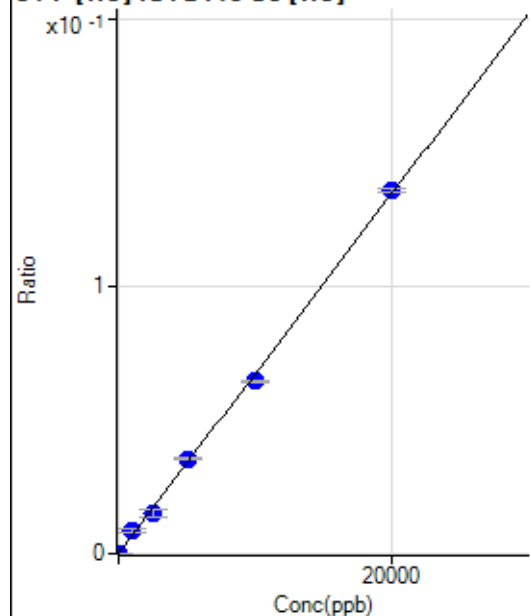
$$DL = 2.64$$

$$BEC = 87.59$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS     | Ratio  | Det | RSD   |
|---|--------------------------|-----------|------------|---------|--------|-----|-------|
| 1 | <input type="checkbox"/> | 0.000     | 4.100      | 5.55    | 0.0001 | P   | 86.7  |
| 2 | <input type="checkbox"/> | 0.000     |            |         |        |     |       |
| 3 | <input type="checkbox"/> | 0.000     | -4.100     | 2.78    | 0.0001 | P   | 173.2 |
| 4 | <input type="checkbox"/> | 1000.000  | 1273.998   | 469.47  | 0.0087 | P   | 13.5  |
| 5 | <input type="checkbox"/> | 2500.000  | 2225.310   | 766.73  | 0.0151 | P   | 17.0  |
| 6 | <input type="checkbox"/> | 5000.000  | 5266.858   | 1819.65 | 0.0355 | P   | 3.0   |
| 7 | <input type="checkbox"/> | 10000.000 | 9565.423   | 3272.76 | 0.0645 | P   | 0.8   |
| 8 | <input type="checkbox"/> | 20000.000 | 20171.211  | 6821.42 | 0.1359 | P   | 1.2   |
| 9 | <input type="checkbox"/> |           |            | 11.11   | 0.0002 | P   | 86.6  |

$$y = 6.7336\text{E-}006 * x + 8.0680\text{E-}005$$

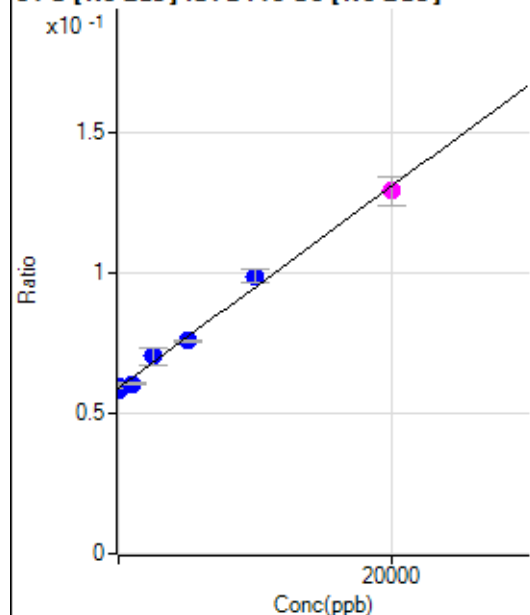
$$R = 0.9993$$

$$DL = 41.38$$

$$BEC = 11.98$$

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     | -194.769   | 426054.28 | 0.0583 | P   | 0.9 |
| 2 | <input type="checkbox"/> | 0.000     |            |           |        |     |     |
| 3 | <input type="checkbox"/> | 0.000     | 194.769    | 430480.36 | 0.0597 | P   | 2.1 |
| 4 | <input type="checkbox"/> | 1000.000  | 360.508    | 454839.49 | 0.0603 | P   | 0.8 |
| 5 | <input type="checkbox"/> | 2500.000  | 3132.745   | 488373.15 | 0.0703 | P   | 9.0 |
| 6 | <input type="checkbox"/> | 5000.000  | 4634.907   | 549412.09 | 0.0757 | P   | 0.9 |
| 7 | <input type="checkbox"/> | 10000.000 | 11055.798  | 688081.28 | 0.0987 | P   | 5.1 |
| 8 | <input type="checkbox"/> | 20000.000 | 19516.256  | 933091.19 | 0.1291 | M   | 7.8 |
| 9 | <input type="checkbox"/> |           |            | 405524.55 | 0.0559 | P   | 2.0 |

$$y = 3.5893\text{E-}006 * x + 0.0590$$

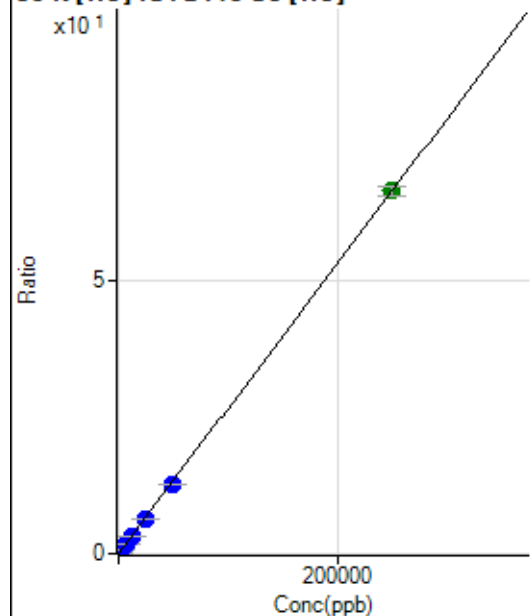
$$R = 0.9963$$

$$DL = 749.9$$

$$BEC = 1.644\text{E}+04$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS        | Ratio   | Det | RSD  |
|---|--------------------------|-----------|------------|------------|---------|-----|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 2047.47    | 0.0395  | P   | 10.0 |
| 2 | <input type="checkbox"/> | 50.000    |            |            |         |     |      |
| 3 | <input type="checkbox"/> | 500.000   | 510.531    | 9053.28    | 0.1752  | P   | 2.6  |
| 4 | <input type="checkbox"/> | 2500.000  | 2389.729   | 36607.05   | 0.6746  | P   | 1.7  |
| 5 | <input type="checkbox"/> | 6250.000  | 6220.063   | 86197.30   | 1.6924  | P   | 1.5  |
| 6 | <input type="checkbox"/> | 12500.000 | 12232.599  | 168375.94  | 3.2902  | P   | 1.1  |
| 7 | <input type="checkbox"/> | 25000.000 | 23541.506  | 319459.43  | 6.2954  | P   | 0.8  |
| 8 | <input type="checkbox"/> | 50000.000 | 48037.029  | 642706.43  | 12.8048 | P   | 0.6  |
| 9 | <input type="checkbox"/> | 250000.00 | 250553.64  | 3528491.57 | 66.6211 | A   | 2.5  |

$$y = 2.6574\text{E-}004 * x + 0.0395$$

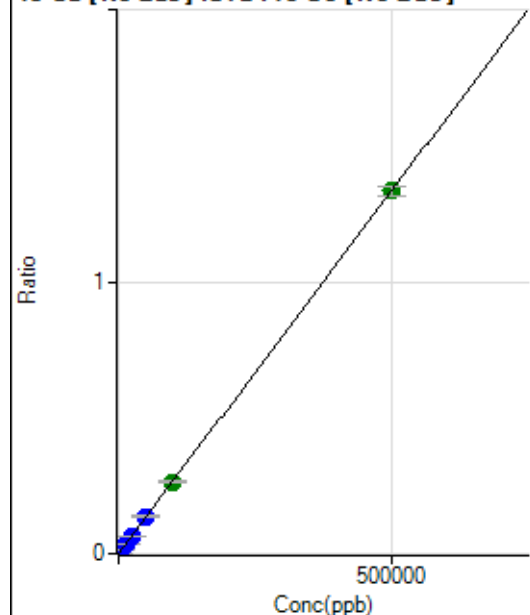
$$R = 1.0000$$

$$DL = 44.76$$

$$BEC = 148.7$$

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      | 652.83     | 0.0001 | P   | 15.6 |
| 2 | <input type="checkbox"/> | 50.000    |            |            |        |     |      |
| 3 | <input type="checkbox"/> | 500.000   | 483.484    | 9942.84    | 0.0014 | P   | 4.4  |
| 4 | <input type="checkbox"/> | 5000.000  | 4928.453   | 99859.71   | 0.0132 | P   | 1.6  |
| 5 | <input type="checkbox"/> | 12500.000 | 12831.752  | 238627.22  | 0.0343 | P   | 9.1  |
| 6 | <input type="checkbox"/> | 25000.000 | 24601.424  | 477443.36  | 0.0657 | P   | 1.3  |
| 7 | <input type="checkbox"/> | 50000.000 | 51010.503  | 949405.85  | 0.1362 | P   | 5.9  |
| 8 | <input type="checkbox"/> | 100000.00 | 99139.187  | 1913745.60 | 0.2647 | A   | 1.3  |
| 9 | <input type="checkbox"/> | 500000.00 | 500083.47  | 9674155.34 | 1.3347 | A   | 2.7  |

$$y = 2.6689\text{E-}006 * x + 8.9404\text{E-}005$$

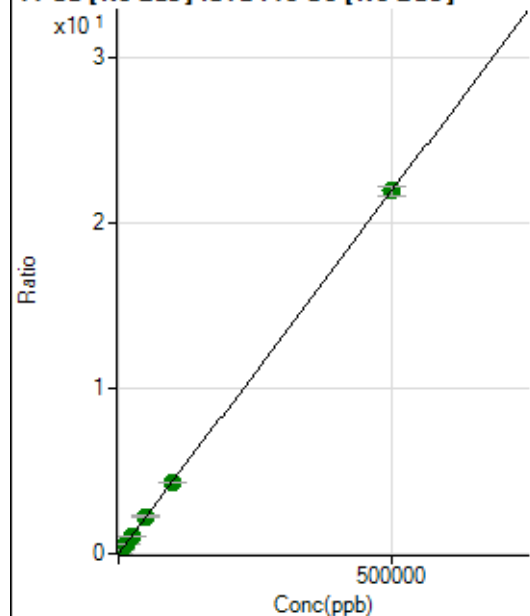
$$R = 1.0000$$

$$DL = 15.66$$

$$BEC = 33.5$$

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      | 19614.37    | 0.0027  | P   | 1.4 |
| 2 | <input type="checkbox"/> | 50.000    |            |             |         |     |     |
| 3 | <input type="checkbox"/> | 500.000   | 474.061    | 169173.47   | 0.0235  | P   | 2.9 |
| 4 | <input type="checkbox"/> | 5000.000  | 5000.974   | 1673879.19  | 0.2220  | A   | 0.7 |
| 5 | <input type="checkbox"/> | 12500.000 | 12771.826  | 3911478.99  | 0.5627  | A   | 8.7 |
| 6 | <input type="checkbox"/> | 25000.000 | 24445.873  | 7803540.45  | 1.0746  | A   | 1.1 |
| 7 | <input type="checkbox"/> | 50000.000 | 50580.020  | 15476867.71 | 2.2205  | A   | 5.6 |
| 8 | <input type="checkbox"/> | 100000.00 | 97441.103  | 30913642.36 | 4.2753  | A   | 0.8 |
| 9 | <input type="checkbox"/> | 500000.00 | 500474.70  | 159068750.7 | 21.9478 | A   | 2.9 |

$$y = 4.3849\text{E-}005 * x + 0.0027$$

$$R = 1.0000$$

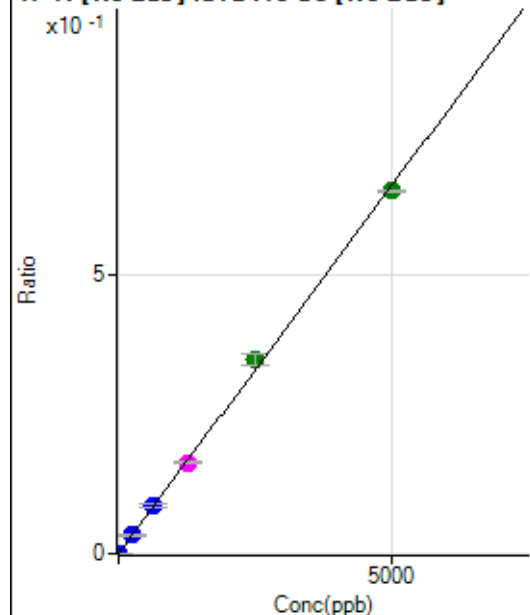
$$DL = 2.572$$

$$BEC = 61.23$$

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      | 152.78     | 0.0000 | P   | 28.6 |
| 2 | <input type="checkbox"/> | 0.500    |            |            |        |     |      |
| 3 | <input type="checkbox"/> | 5.000    | 5.221      | 5120.60    | 0.0007 | P   | 4.3  |
| 4 | <input type="checkbox"/> | 250.000  | 249.041    | 248218.63  | 0.0329 | P   | 1.6  |
| 5 | <input type="checkbox"/> | 625.000  | 651.764    | 598711.82  | 0.0861 | P   | 8.4  |
| 6 | <input type="checkbox"/> | 1250.000 | 1241.467   | 1191039.42 | 0.1640 | M   | 0.7  |
| 7 | <input type="checkbox"/> | 2500.000 | 2632.880   | 2423768.83 | 0.3478 | A   | 6.1  |
| 8 | <input type="checkbox"/> | 5000.000 | 4932.395   | 4711350.71 | 0.6516 | A   | 0.4  |
| 9 | <input type="checkbox"/> |          |            | 2561.46    | 0.0004 | P   | 6.6  |

$$y = 1.3209\text{E-}004 * x + 2.0942\text{E-}005$$

$$R = 0.9995$$

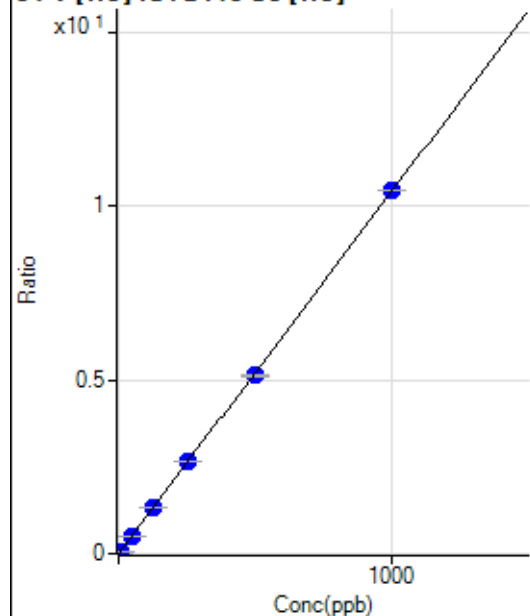
$$DL = 0.1361$$

$$BEC = 0.1585$$

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      | 2.22      | 0.0000  | P   | 86.7 |
| 2 | <input type="checkbox"/> | 0.500    |            |           |         |     |      |
| 3 | <input type="checkbox"/> | 5.000    | 4.658      | 2508.05   | 0.0485  | P   | 6.0  |
| 4 | <input type="checkbox"/> | 50.000   | 49.431     | 27933.63  | 0.5147  | P   | 1.4  |
| 5 | <input type="checkbox"/> | 125.000  | 127.258    | 67486.18  | 1.3251  | P   | 2.0  |
| 6 | <input type="checkbox"/> | 250.000  | 254.249    | 135483.02 | 2.6474  | P   | 1.2  |
| 7 | <input type="checkbox"/> | 500.000  | 492.665    | 260321.53 | 5.1300  | P   | 1.0  |
| 8 | <input type="checkbox"/> | 1000.000 | 1002.353   | 523870.72 | 10.4372 | P   | 0.1  |
| 9 | <input type="checkbox"/> |          |            | 211.12    | 0.0040  | P   | 8.6  |

$$y = 0.0104 * x + 4.2979\text{E-}005$$

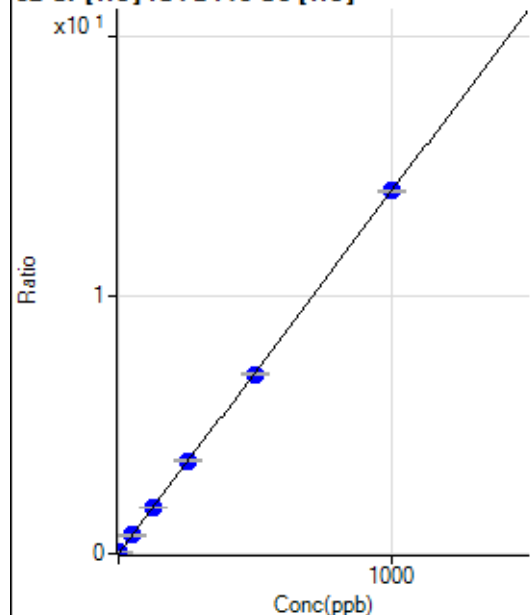
$$R = 0.9999$$

$$DL = 0.01074$$

$$BEC = 0.004128$$

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      | 348.90    | 0.0067  | P   | 2.7 |
| 2 | <input type="checkbox"/> | 0.200    |            |           |         |     |     |
| 3 | <input type="checkbox"/> | 2.000    | 2.242      | 1971.29   | 0.0381  | P   | 3.3 |
| 4 | <input type="checkbox"/> | 50.000   | 50.025     | 38411.62  | 0.7079  | P   | 1.5 |
| 5 | <input type="checkbox"/> | 125.000  | 128.287    | 91917.02  | 1.8047  | P   | 1.3 |
| 6 | <input type="checkbox"/> | 250.000  | 256.344    | 184207.44 | 3.5995  | P   | 1.1 |
| 7 | <input type="checkbox"/> | 500.000  | 495.106    | 352474.97 | 6.9459  | P   | 0.7 |
| 8 | <input type="checkbox"/> | 1000.000 | 1000.448   | 704134.40 | 14.0286 | P   | 0.2 |
| 9 | <input type="checkbox"/> |          |            | 26880.46  | 0.5075  | P   | 1.6 |

$$y = 0.0140 * x + 0.0067$$

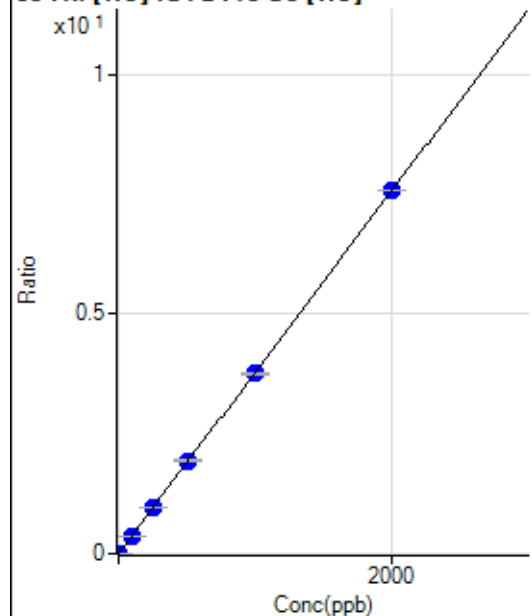
$$R = 1.0000$$

$$DL = 0.03884$$

$$BEC = 0.4799$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS       | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-----------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 100.00    | 0.0019 | P   | 12.0 |
| 2 | <input type="checkbox"/> | 0.100    |            |           |        |     |      |
| 3 | <input type="checkbox"/> | 1.000    | 1.059      | 306.68    | 0.0059 | P   | 12.1 |
| 4 | <input type="checkbox"/> | 100.000  | 98.922     | 20401.80  | 0.3759 | P   | 1.6  |
| 5 | <input type="checkbox"/> | 250.000  | 256.590    | 49500.76  | 0.9720 | P   | 1.9  |
| 6 | <input type="checkbox"/> | 500.000  | 509.412    | 98646.05  | 1.9278 | P   | 2.0  |
| 7 | <input type="checkbox"/> | 1000.000 | 991.863    | 190383.26 | 3.7517 | P   | 0.4  |
| 8 | <input type="checkbox"/> | 2000.000 | 2000.946   | 379785.18 | 7.5665 | P   | 0.1  |
| 9 | <input type="checkbox"/> |          |            | 1930.17   | 0.0365 | P   | 5.9  |

$$y = 0.0038 * x + 0.0019$$

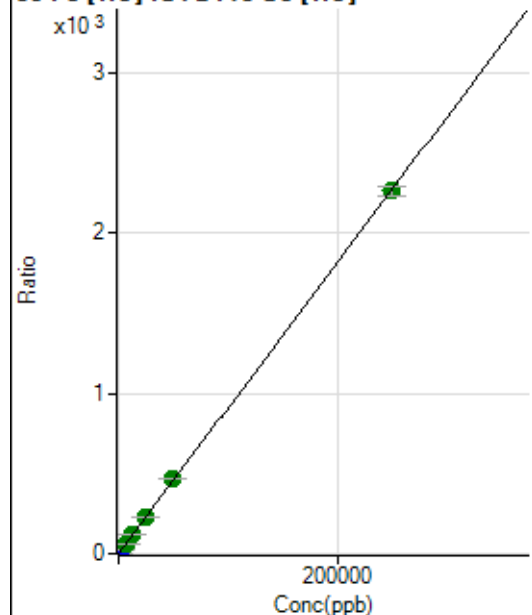
$$R = 1.0000$$

$$DL = 0.1835$$

$$BEC = 0.5087$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio     | Det | RSD |
|---|--------------------------|-----------|------------|-------------|-----------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 1101.93     | 0.0212    | P   | 3.6 |
| 2 | <input type="checkbox"/> | 5.000     |            |             |           |     |     |
| 3 | <input type="checkbox"/> | 50.000    | 52.904     | 25852.14    | 0.5003    | P   | 3.6 |
| 4 | <input type="checkbox"/> | 2500.000  | 2573.856   | 1265904.37  | 23.3279   | P   | 1.1 |
| 5 | <input type="checkbox"/> | 6250.000  | 6673.303   | 3078693.47  | 60.4490   | A   | 1.4 |
| 6 | <input type="checkbox"/> | 12500.000 | 13261.444  | 6145917.85  | 120.1057  | A   | 2.1 |
| 7 | <input type="checkbox"/> | 25000.000 | 25481.690  | 11709984.52 | 230.7619  | A   | 0.9 |
| 8 | <input type="checkbox"/> | 50000.000 | 51505.082  | 23410373.91 | 466.4078  | A   | 0.7 |
| 9 | <input type="checkbox"/> | 250000.00 | 249601.42  | 119699884.1 | 2,260.201 | A   | 2.6 |

$$y = 0.0091 * x + 0.0212$$

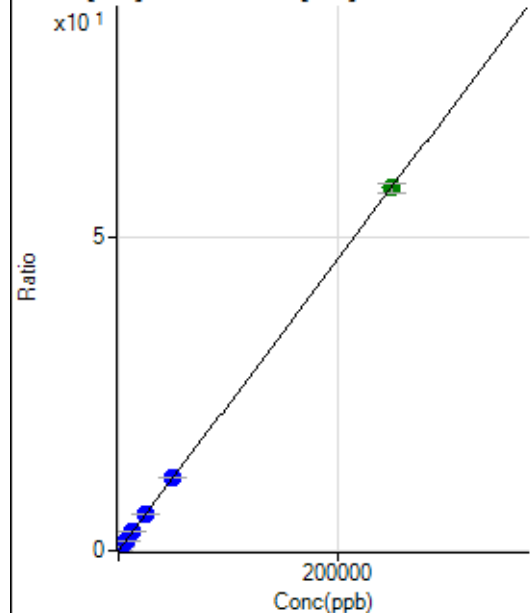
$$R = 1.0000$$

$$DL = 0.2514$$

$$BEC = 2.346$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS        | Ratio   | Det | RSD  |
|---|--------------------------|-----------|------------|------------|---------|-----|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 24.08      | 0.0005  | P   | 70.2 |
| 2 | <input type="checkbox"/> | 5.000     |            |            |         |     |      |
| 3 | <input type="checkbox"/> | 50.000    | 51.057     | 635.22     | 0.0123  | P   | 8.6  |
| 4 | <input type="checkbox"/> | 2500.000  | 2566.984   | 32297.19   | 0.5952  | P   | 0.9  |
| 5 | <input type="checkbox"/> | 6250.000  | 6509.737   | 76829.45   | 1.5086  | P   | 1.9  |
| 6 | <input type="checkbox"/> | 12500.000 | 13101.635  | 155344.33  | 3.0357  | P   | 1.8  |
| 7 | <input type="checkbox"/> | 25000.000 | 25159.821  | 295811.59  | 5.8292  | P   | 0.4  |
| 8 | <input type="checkbox"/> | 50000.000 | 50823.250  | 591005.85  | 11.7747 | P   | 0.4  |
| 9 | <input type="checkbox"/> | 250000.00 | 249782.12  | 3064756.72 | 57.8676 | A   | 2.6  |

$$y = 2.3167E-004 * x + 4.6687E-004$$

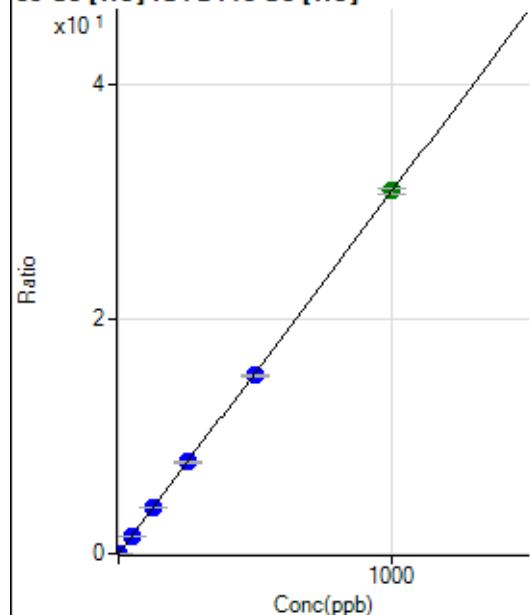
$$R = 1.0000$$

$$DL = 4.246$$

$$BEC = 2.015$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio   | Det | RSD |
|---|--------------------------|----------|------------|------------|---------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 84.45      | 0.0016  | P   | 6.8 |
| 2 | <input type="checkbox"/> | 0.100    |            |            |         |     |     |
| 3 | <input type="checkbox"/> | 1.000    | 1.028      | 1723.47    | 0.0334  | P   | 5.9 |
| 4 | <input type="checkbox"/> | 50.000   | 49.626     | 83220.13   | 1.5335  | P   | 0.8 |
| 5 | <input type="checkbox"/> | 125.000  | 126.474    | 198920.25  | 3.9058  | P   | 1.7 |
| 6 | <input type="checkbox"/> | 250.000  | 254.137    | 401538.24  | 7.8466  | P   | 1.4 |
| 7 | <input type="checkbox"/> | 500.000  | 492.164    | 771061.84  | 15.1942 | P   | 0.3 |
| 8 | <input type="checkbox"/> | 1000.000 | 1002.718   | 1553695.10 | 30.9545 | A   | 1.6 |
| 9 | <input type="checkbox"/> |          |            | 19484.98   | 0.3679  | P   | 2.1 |

$$y = 0.0309 * x + 0.0016$$

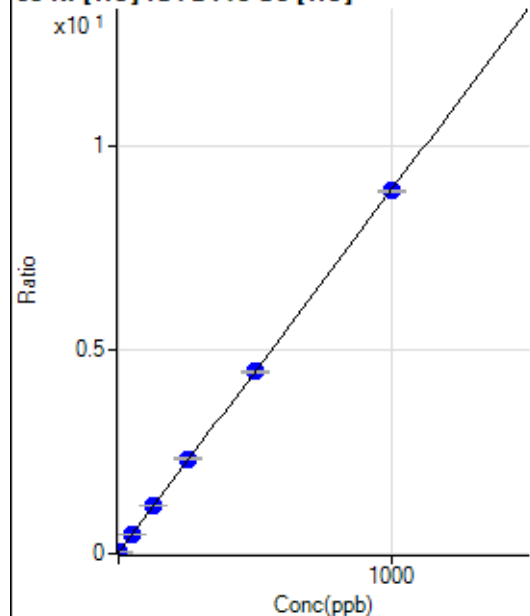
$$R = 0.9999$$

$$DL = 0.01073$$

$$BEC = 0.05278$$

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      | 1162.29   | 0.0224 | P   | 2.4 |
| 2 | <input type="checkbox"/> | 0.100    |            |           |        |     |     |
| 3 | <input type="checkbox"/> | 1.000    | 0.958      | 1599.01   | 0.0309 | P   | 3.4 |
| 4 | <input type="checkbox"/> | 50.000   | 49.642     | 25240.83  | 0.4651 | P   | 1.5 |
| 5 | <input type="checkbox"/> | 125.000  | 130.415    | 60379.23  | 1.1855 | P   | 1.6 |
| 6 | <input type="checkbox"/> | 250.000  | 259.467    | 119566.61 | 2.3365 | P   | 1.5 |
| 7 | <input type="checkbox"/> | 500.000  | 499.219    | 227080.24 | 4.4748 | P   | 0.5 |
| 8 | <input type="checkbox"/> | 1000.000 | 997.365    | 447598.52 | 8.9176 | P   | 0.5 |
| 9 | <input type="checkbox"/> |          |            | 15164.01  | 0.2863 | P   | 0.8 |

$$y = 0.0089 * x + 0.0224$$

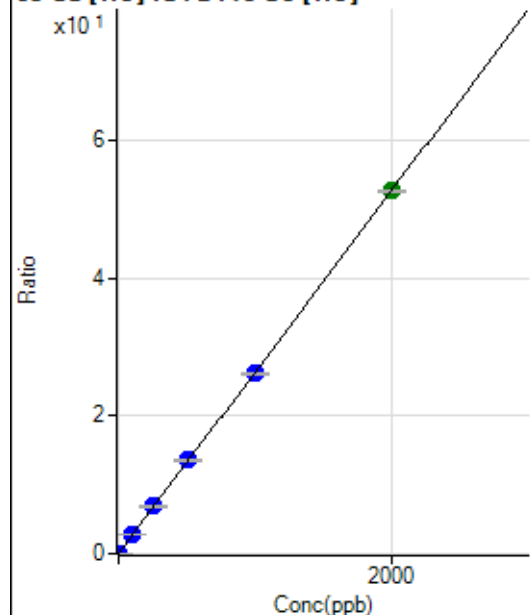
$$R = 0.9999$$

$$DL = 0.1783$$

$$BEC = 2.512$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio   | Det | RSD |
|---|--------------------------|----------|------------|------------|---------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 1560.12    | 0.0301  | P   | 7.0 |
| 2 | <input type="checkbox"/> | 0.200    |            |            |         |     |     |
| 3 | <input type="checkbox"/> | 2.000    | 2.058      | 4360.75    | 0.0844  | P   | 1.9 |
| 4 | <input type="checkbox"/> | 100.000  | 100.859    | 146018.28  | 2.6908  | P   | 1.1 |
| 5 | <input type="checkbox"/> | 250.000  | 258.629    | 349013.79  | 6.8529  | P   | 1.7 |
| 6 | <input type="checkbox"/> | 500.000  | 515.327    | 697225.40  | 13.6247 | P   | 1.4 |
| 7 | <input type="checkbox"/> | 1000.000 | 991.585    | 1328959.65 | 26.1887 | P   | 0.6 |
| 8 | <input type="checkbox"/> | 2000.000 | 1999.254   | 2648759.16 | 52.7717 | A   | 0.9 |
| 9 | <input type="checkbox"/> |          |            | 7305.37    | 0.1379  | P   | 2.8 |

$$y = 0.0264 * x + 0.0301$$

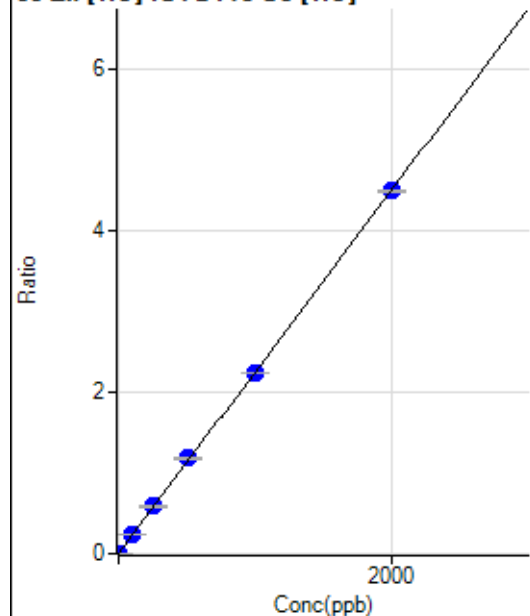
$$R = 0.9999$$

$$DL = 0.2391$$

$$BEC = 1.141$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS       | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-----------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 125.56    | 0.0024 | P   | 12.5 |
| 2 | <input type="checkbox"/> | 0.200    |            |           |        |     |      |
| 3 | <input type="checkbox"/> | 2.000    | 2.108      | 370.01    | 0.0072 | P   | 13.2 |
| 4 | <input type="checkbox"/> | 100.000  | 102.648    | 12658.19  | 0.2332 | P   | 0.3  |
| 5 | <input type="checkbox"/> | 250.000  | 259.623    | 29852.30  | 0.5862 | P   | 3.5  |
| 6 | <input type="checkbox"/> | 500.000  | 526.106    | 60665.27  | 1.1855 | P   | 1.6  |
| 7 | <input type="checkbox"/> | 1000.000 | 990.702    | 113175.79 | 2.2302 | P   | 0.3  |
| 8 | <input type="checkbox"/> | 2000.000 | 1996.787   | 225498.03 | 4.4926 | P   | 0.4  |
| 9 | <input type="checkbox"/> |          |            | 1905.72   | 0.0360 | P   | 7.7  |

$$y = 0.0022 * x + 0.0024$$

$$R = 0.9999$$

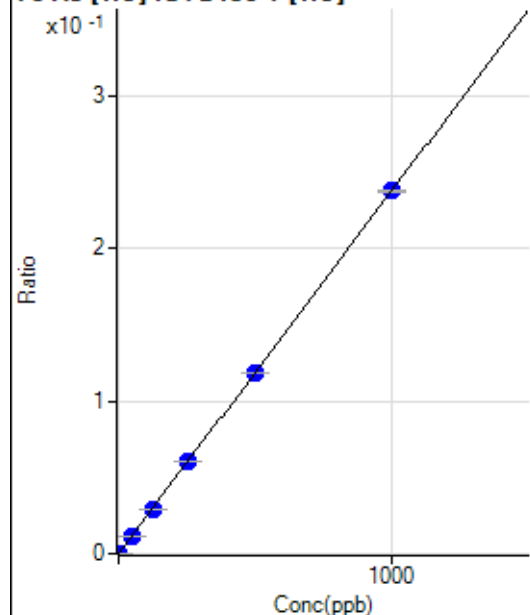
$$DL = 0.4057$$

$$BEC = 1.078$$

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      | 8.03     | 0.0000 | P   | 28.2 |
| 2 | <input type="checkbox"/> | 0.100    |            |          |        |     |      |
| 3 | <input type="checkbox"/> | 1.000    | 0.997      | 90.12    | 0.0003 | P   | 8.3  |
| 4 | <input type="checkbox"/> | 50.000   | 50.013     | 4372.34  | 0.0119 | P   | 0.5  |
| 5 | <input type="checkbox"/> | 125.000  | 123.571    | 10282.92 | 0.0294 | P   | 1.4  |
| 6 | <input type="checkbox"/> | 250.000  | 253.047    | 21194.72 | 0.0602 | P   | 0.3  |
| 7 | <input type="checkbox"/> | 500.000  | 497.535    | 40877.57 | 0.1183 | P   | 0.4  |
| 8 | <input type="checkbox"/> | 1000.000 | 1000.649   | 81120.60 | 0.2380 | P   | 0.4  |
| 9 | <input type="checkbox"/> |          |            | 138.89   | 0.0004 | P   | 26.2 |

$$y = 2.3779\text{E-}004 * x + 2.3019\text{E-}005$$

$$R = 1.0000$$

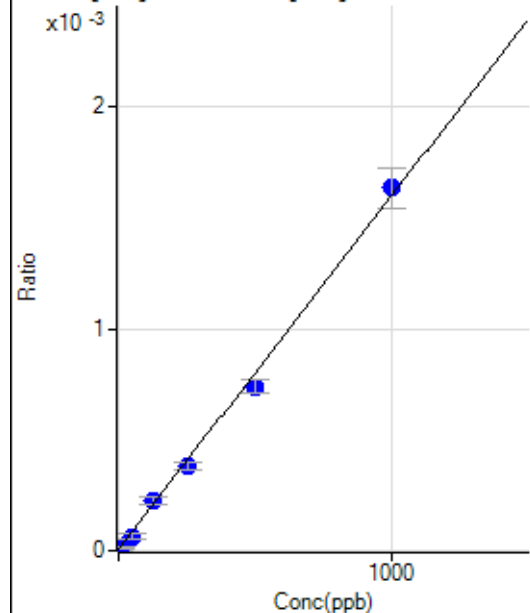
$$DL = 0.08179$$

$$BEC = 0.0968$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS    | Ratio  | Det | RSD   |
|---|--------------------------|----------|------------|--------|--------|-----|-------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 2.22   | 0.0000 | P   | 173.2 |
| 2 | <input type="checkbox"/> | 0.500    |            |        |        |     |       |
| 3 | <input type="checkbox"/> | 5.000    | 2.089      | 3.33   | 0.0000 | P   | 99.8  |
| 4 | <input type="checkbox"/> | 50.000   | 36.004     | 23.33  | 0.0001 | P   | 37.8  |
| 5 | <input type="checkbox"/> | 125.000  | 137.539    | 78.89  | 0.0002 | P   | 12.8  |
| 6 | <input type="checkbox"/> | 250.000  | 235.770    | 134.45 | 0.0004 | P   | 8.9   |
| 7 | <input type="checkbox"/> | 500.000  | 460.086    | 255.56 | 0.0007 | P   | 8.8   |
| 8 | <input type="checkbox"/> | 1000.000 | 1022.662   | 557.80 | 0.0016 | P   | 11.2  |
| 9 | <input type="checkbox"/> |          |            | 1.11   | 0.0000 | P   | 173.2 |

$$y = 1.5941\text{E-}006 * x + 6.1920\text{E-}006$$

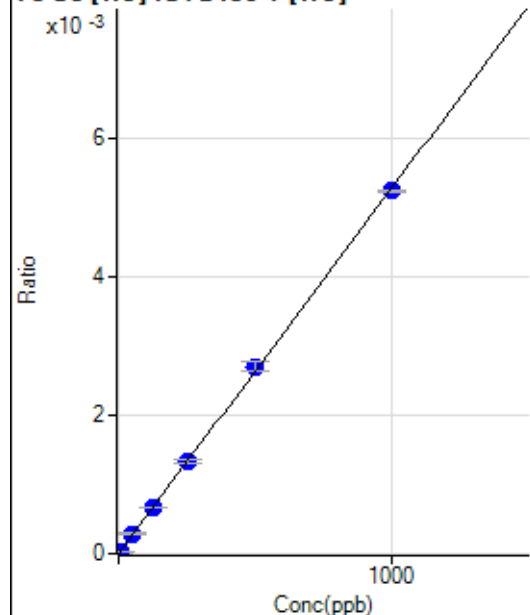
$$R = 0.9986$$

$$DL = 20.18$$

$$BEC = 3.884$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS     | Ratio  | Det | RSD   |
|---|--------------------------|----------|------------|---------|--------|-----|-------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 0.62    | 0.0000 | P   | 173.2 |
| 2 | <input type="checkbox"/> | 0.500    |            |         |        |     |       |
| 3 | <input type="checkbox"/> | 5.000    | 3.741      | 7.41    | 0.0000 | P   | 44.1  |
| 4 | <input type="checkbox"/> | 50.000   | 53.903     | 104.94  | 0.0003 | P   | 5.6   |
| 5 | <input type="checkbox"/> | 125.000  | 124.508    | 230.25  | 0.0007 | P   | 0.7   |
| 6 | <input type="checkbox"/> | 250.000  | 250.368    | 465.44  | 0.0013 | P   | 3.9   |
| 7 | <input type="checkbox"/> | 500.000  | 512.754    | 934.61  | 0.0027 | P   | 5.4   |
| 8 | <input type="checkbox"/> | 1000.000 | 993.404    | 1786.55 | 0.0052 | P   | 0.6   |
| 9 | <input type="checkbox"/> |          |            | 1.85    | 0.0000 | P   | 99.2  |

$$y = 5.2739\text{E-}006 * x + 1.7314\text{E-}006$$

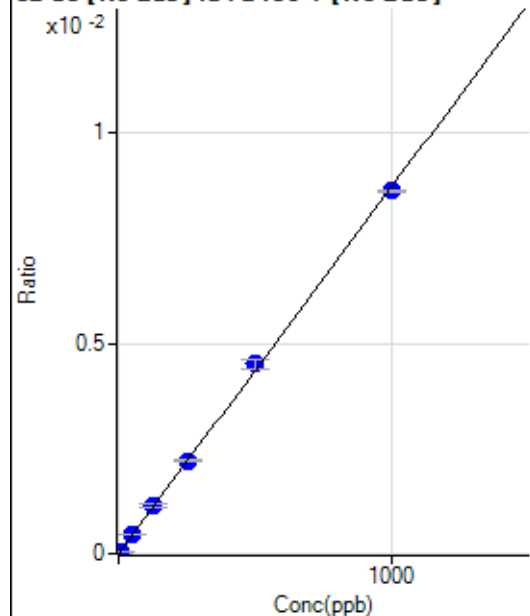
$$R = 0.9999$$

$$DL = 1.706$$

$$BEC = 0.3283$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS       | Ratio  | Det | RSD    |
|---|--------------------------|----------|------------|-----------|--------|-----|--------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | -2.18     | 0.0000 | P   | -1363. |
| 2 | <input type="checkbox"/> | 0.500    |            |           |        |     |        |
| 3 | <input type="checkbox"/> | 5.000    | 5.132      | 556.81    | 0.0000 | P   | 10.3   |
| 4 | <input type="checkbox"/> | 50.000   | 50.856     | 5860.89   | 0.0004 | P   | 1.2    |
| 5 | <input type="checkbox"/> | 125.000  | 132.266    | 14038.39  | 0.0012 | P   | 7.3    |
| 6 | <input type="checkbox"/> | 250.000  | 253.671    | 28213.67  | 0.0022 | P   | 1.9    |
| 7 | <input type="checkbox"/> | 500.000  | 517.196    | 55953.93  | 0.0045 | P   | 5.4    |
| 8 | <input type="checkbox"/> | 1000.000 | 989.533    | 111334.93 | 0.0086 | P   | 0.6    |
| 9 | <input type="checkbox"/> |          |            | 83.99     | 0.0000 | P   | 47.3   |

$$y = 8.7205\text{E-}006 * x - 1.6403\text{E-}007$$

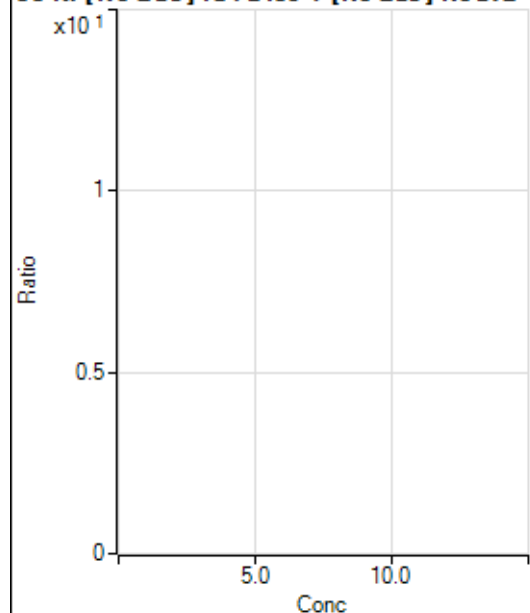
$$R = 0.9998$$

$$DL = 0.7695$$

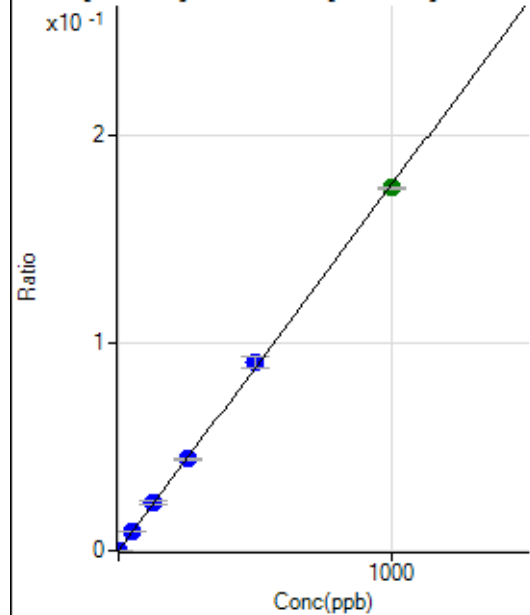
$$BEC = -0.01881$$

Weight: &lt;None&gt;

Min Conc: 0

**83 Kr [No Gas] ISTD:89 Y [No Gas] No av.**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio  | Det | RSD  |
|---|--------------------------|-------|------------|--------|--------|-----|------|
| 1 | <input type="checkbox"/> |       |            | 332.23 | 0.0000 | P   | 3.7  |
| 2 | <input type="checkbox"/> |       |            |        |        |     |      |
| 3 | <input type="checkbox"/> |       |            | 344.46 | 0.0000 | P   | 14.3 |
| 4 | <input type="checkbox"/> |       |            | 361.13 | 0.0000 | P   | 5.2  |
| 5 | <input type="checkbox"/> |       |            | 333.34 | 0.0000 | P   | 10.4 |
| 6 | <input type="checkbox"/> |       |            | 313.35 | 0.0000 | P   | 12.5 |
| 7 | <input type="checkbox"/> |       |            | 360.01 | 0.0000 | P   | 4.5  |
| 8 | <input type="checkbox"/> |       |            | 348.90 | 0.0000 | P   | 20.1 |
| 9 | <input type="checkbox"/> |       |            | 374.46 | 0.0000 | P   | 8.1  |

**86 Sr [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      | 513.92     | 0.0000 | P   | 17.2 |
| 2 | <input type="checkbox"/> | 0.100    |            |            |        |     |      |
| 3 | <input type="checkbox"/> | 1.000    | 1.075      | 2864.33    | 0.0002 | P   | 7.8  |
| 4 | <input type="checkbox"/> | 50.000   | 50.016     | 116975.93  | 0.0088 | P   | 0.2  |
| 5 | <input type="checkbox"/> | 125.000  | 130.779    | 280840.53  | 0.0231 | P   | 7.2  |
| 6 | <input type="checkbox"/> | 250.000  | 249.679    | 561353.49  | 0.0440 | P   | 1.7  |
| 7 | <input type="checkbox"/> | 500.000  | 515.500    | 1126638.60 | 0.0908 | P   | 5.6  |
| 8 | <input type="checkbox"/> | 1000.000 | 991.607    | 2253532.17 | 0.1747 | A   | 0.7  |
| 9 | <input type="checkbox"/> |          |            | 11858.47   | 0.0009 | P   | 4.5  |

$$y = 1.7610E-004 * x + 4.0090E-005$$

$$R = 0.9998$$

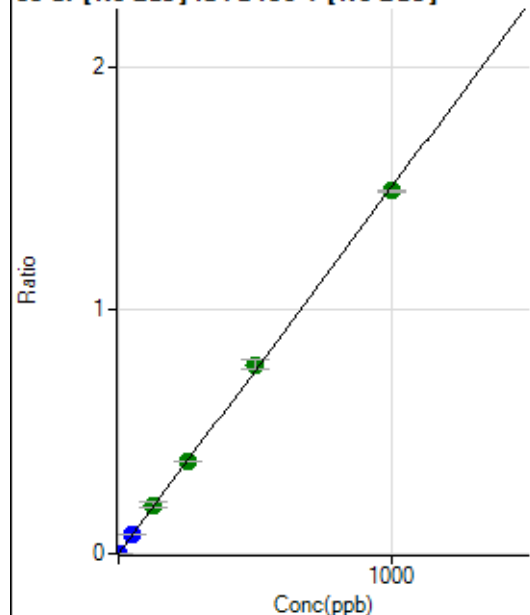
$$DL = 0.1175$$

$$BEC = 0.2277$$

Weight: <None>

Min Conc: 0

88 Sr [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      | 177.79      | 0.0000 | P   | 21.6 |
| 2 | <input type="checkbox"/> | 0.100    |            |             |        |     |      |
| 3 | <input type="checkbox"/> | 1.000    | 1.033      | 19575.93    | 0.0016 | P   | 6.2  |
| 4 | <input type="checkbox"/> | 50.000   | 50.460     | 1004857.83  | 0.0760 | P   | 0.7  |
| 5 | <input type="checkbox"/> | 125.000  | 133.345    | 2443012.18  | 0.2008 | A   | 8.8  |
| 6 | <input type="checkbox"/> | 250.000  | 252.372    | 4848349.20  | 0.3801 | A   | 1.0  |
| 7 | <input type="checkbox"/> | 500.000  | 516.335    | 9646494.31  | 0.7776 | A   | 5.7  |
| 8 | <input type="checkbox"/> | 1000.000 | 990.173    | 19240319.00 | 1.4912 | A   | 0.2  |
| 9 | <input type="checkbox"/> |          |            | 95192.20    | 0.0076 | P   | 1.2  |

$$y = 0.0015 * x + 1.3846E-005$$

$$R = 0.9998$$

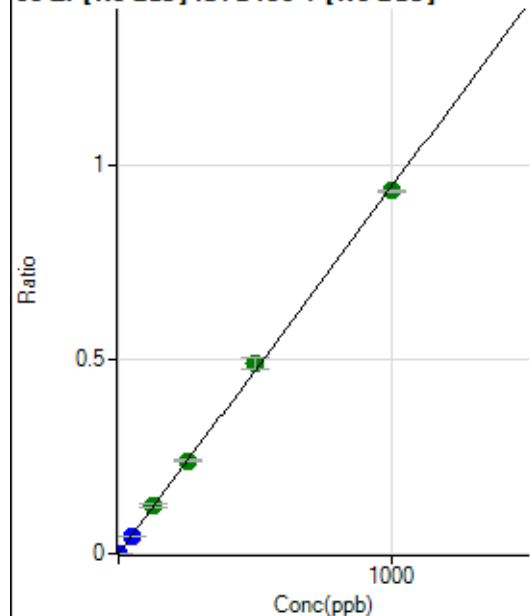
$$DL = 0.005965$$

$$BEC = 0.009194$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|-------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 1036.20     | 0.0001 | P   | 9.2 |
| 2 | <input type="checkbox"/> | 0.100    |            |             |        |     |     |
| 3 | <input type="checkbox"/> | 1.000    | 0.985      | 12628.58    | 0.0010 | P   | 1.4 |
| 4 | <input type="checkbox"/> | 50.000   | 49.465     | 618944.66   | 0.0468 | P   | 0.7 |
| 5 | <input type="checkbox"/> | 125.000  | 133.032    | 1530127.54  | 0.1258 | A   | 8.5 |
| 6 | <input type="checkbox"/> | 250.000  | 252.845    | 3047973.70  | 0.2390 | A   | 1.9 |
| 7 | <input type="checkbox"/> | 500.000  | 518.630    | 6079877.48  | 0.4901 | A   | 5.6 |
| 8 | <input type="checkbox"/> | 1000.000 | 988.996    | 12057350.44 | 0.9345 | A   | 0.4 |
| 9 | <input type="checkbox"/> |          |            | 3956.31     | 0.0003 | P   | 8.4 |

$$y = 9.4482E-004 * x + 8.0731E-005$$

$$R = 0.9997$$

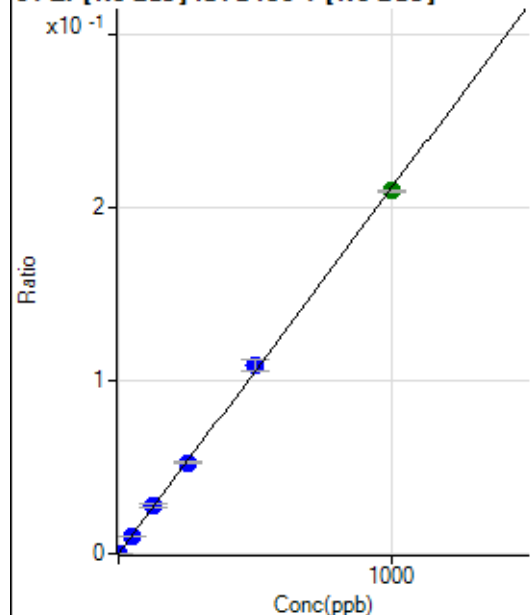
$$DL = 0.02362$$

$$BEC = 0.08545$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 194.46     | 0.0000 | P   | 18.3 |
| 2 | <input type="checkbox"/> | 0.100    |            |            |        |     |      |
| 3 | <input type="checkbox"/> | 1.000    | 1.040      | 2928.23    | 0.0002 | P   | 2.2  |
| 4 | <input type="checkbox"/> | 50.000   | 49.160     | 137350.58  | 0.0104 | P   | 0.2  |
| 5 | <input type="checkbox"/> | 125.000  | 129.981    | 334024.64  | 0.0274 | P   | 7.6  |
| 6 | <input type="checkbox"/> | 250.000  | 248.197    | 668210.66  | 0.0524 | P   | 1.7  |
| 7 | <input type="checkbox"/> | 500.000  | 514.846    | 1347866.49 | 0.1087 | P   | 5.8  |
| 8 | <input type="checkbox"/> | 1000.000 | 992.447    | 2702252.25 | 0.2094 | A   | 0.5  |
| 9 | <input type="checkbox"/> |          |            | 902.85     | 0.0001 | P   | 7.3  |

$$y = 2.1102\text{E-}004 * x + 1.5165\text{E-}005$$

$$R = 0.9998$$

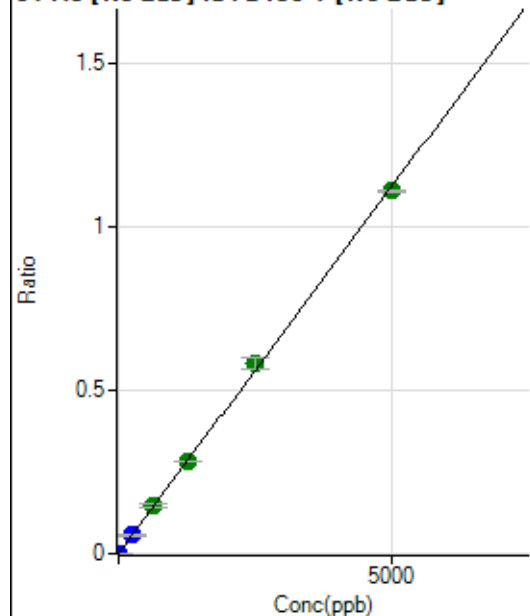
$$DL = 0.0394$$

$$BEC = 0.07187$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|-------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 463.92      | 0.0000 | P   | 7.5 |
| 2 | <input type="checkbox"/> | 0.500    |            |             |        |     |     |
| 3 | <input type="checkbox"/> | 5.000    | 5.018      | 14499.96    | 0.0012 | P   | 3.2 |
| 4 | <input type="checkbox"/> | 250.000  | 249.016    | 738991.55   | 0.0559 | P   | 1.0 |
| 5 | <input type="checkbox"/> | 625.000  | 663.154    | 1811085.04  | 0.1488 | A   | 7.6 |
| 6 | <input type="checkbox"/> | 1250.000 | 1267.544   | 3627742.09  | 0.2844 | A   | 0.3 |
| 7 | <input type="checkbox"/> | 2500.000 | 2594.862   | 7221446.43  | 0.5821 | A   | 5.7 |
| 8 | <input type="checkbox"/> | 5000.000 | 4943.463   | 14308379.14 | 1.1090 | A   | 0.4 |
| 9 | <input type="checkbox"/> |          |            | 19267.13    | 0.0015 | P   | 9.6 |

$$y = 2.2432\text{E-}004 * x + 3.6146\text{E-}005$$

$$R = 0.9997$$

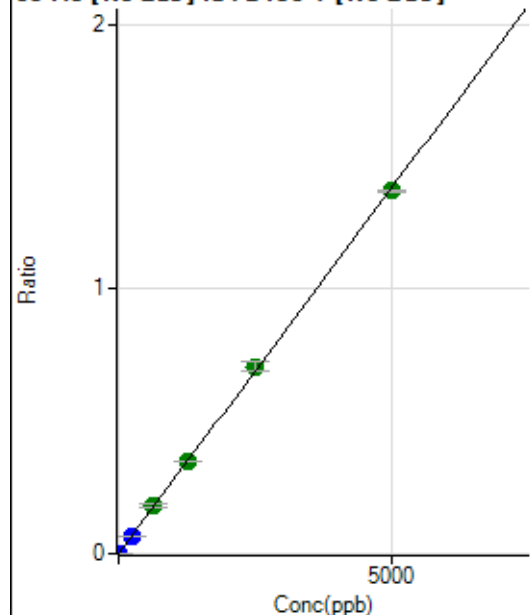
$$DL = 0.03637$$

$$BEC = 0.1611$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 141.67      | 0.0000 | P   | 11.9 |
| 2 | <input type="checkbox"/> | 0.500    |            |             |        |     |      |
| 3 | <input type="checkbox"/> | 5.000    | 4.918      | 17100.40    | 0.0014 | P   | 2.5  |
| 4 | <input type="checkbox"/> | 250.000  | 245.207    | 895965.48   | 0.0678 | P   | 1.5  |
| 5 | <input type="checkbox"/> | 625.000  | 652.992    | 2195838.35  | 0.1805 | A   | 8.2  |
| 6 | <input type="checkbox"/> | 1250.000 | 1255.238   | 4424919.24  | 0.3469 | A   | 0.8  |
| 7 | <input type="checkbox"/> | 2500.000 | 2562.806   | 8786806.45  | 0.7082 | A   | 5.3  |
| 8 | <input type="checkbox"/> | 5000.000 | 4964.028   | 17699173.49 | 1.3718 | A   | 0.6  |
| 9 | <input type="checkbox"/> |          |            | 30964.20    | 0.0025 | P   | 5.7  |

$$y = 2.7634\text{E-}004 * x + 1.1044\text{E-}005$$

$$R = 0.9999$$

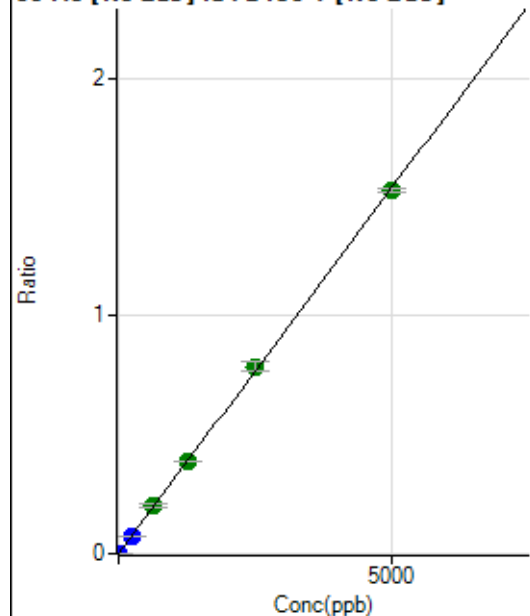
$$DL = 0.01431$$

$$BEC = 0.03996$$

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      | 294.46      | 0.0000 | P   | 24.3 |
| 2 | <input type="checkbox"/> | 0.500    |            |             |        |     |      |
| 3 | <input type="checkbox"/> | 5.000    | 4.853      | 18905.55    | 0.0015 | P   | 2.5  |
| 4 | <input type="checkbox"/> | 250.000  | 246.947    | 1003979.16  | 0.0759 | P   | 0.9  |
| 5 | <input type="checkbox"/> | 625.000  | 659.665    | 2468579.89  | 0.2028 | A   | 7.6  |
| 6 | <input type="checkbox"/> | 1250.000 | 1261.411   | 4946566.00  | 0.3878 | A   | 1.5  |
| 7 | <input type="checkbox"/> | 2500.000 | 2559.300   | 9761408.90  | 0.7868 | A   | 5.5  |
| 8 | <input type="checkbox"/> | 5000.000 | 4963.317   | 19687287.07 | 1.5259 | A   | 1.0  |
| 9 | <input type="checkbox"/> |          |            | 35489.18    | 0.0028 | P   | 4.4  |

$$y = 3.0742\text{E-}004 * x + 2.2970\text{E-}005$$

$$R = 0.9999$$

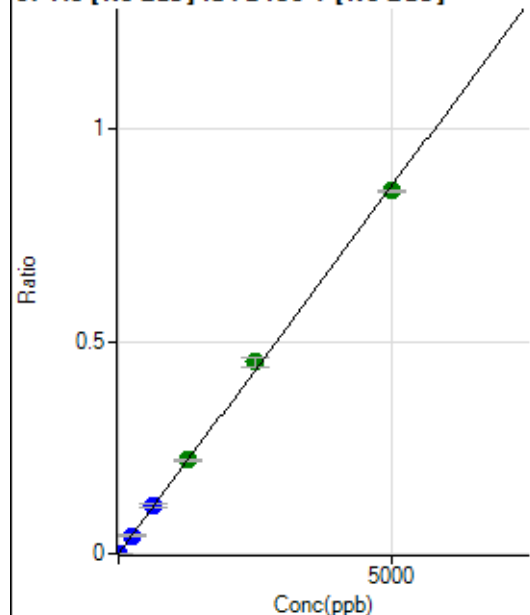
$$DL = 0.0544$$

$$BEC = 0.07472$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 111.12      | 0.0000 | P   | 41.0 |
| 2 | <input type="checkbox"/> | 0.500    |            |             |        |     |      |
| 3 | <input type="checkbox"/> | 5.000    | 4.760      | 10376.64    | 0.0008 | P   | 5.4  |
| 4 | <input type="checkbox"/> | 250.000  | 247.346    | 565530.61   | 0.0428 | P   | 1.1  |
| 5 | <input type="checkbox"/> | 625.000  | 648.579    | 1364574.35  | 0.1122 | P   | 8.3  |
| 6 | <input type="checkbox"/> | 1250.000 | 1270.890   | 2803258.88  | 0.2198 | A   | 0.7  |
| 7 | <input type="checkbox"/> | 2500.000 | 2606.963   | 5591748.95  | 0.4508 | A   | 5.8  |
| 8 | <input type="checkbox"/> | 5000.000 | 4938.481   | 11017598.86 | 0.8539 | A   | 0.4  |
| 9 | <input type="checkbox"/> |          |            | 19453.55    | 0.0015 | P   | 5.6  |

$$y = 1.7291\text{E-}004 * x + 8.6529\text{E-}006$$

$$R = 0.9996$$

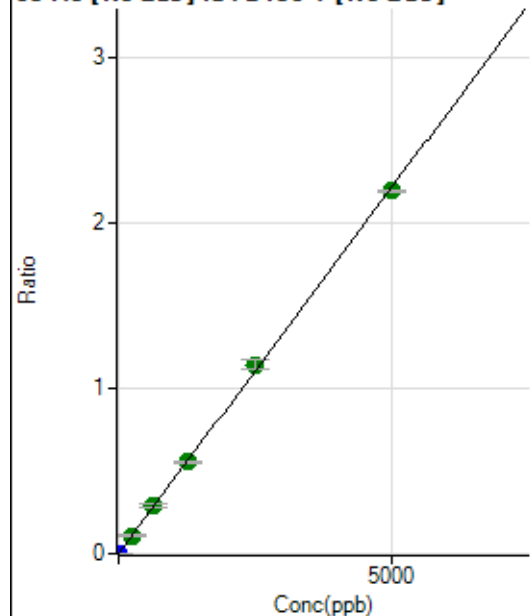
$$DL = 0.06162$$

$$BEC = 0.05004$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|-------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 261.13      | 0.0000 | P   | 6.4 |
| 2 | <input type="checkbox"/> | 0.500    |            |             |        |     |     |
| 3 | <input type="checkbox"/> | 5.000    | 4.852      | 27066.94    | 0.0022 | P   | 3.9 |
| 4 | <input type="checkbox"/> | 250.000  | 249.028    | 1457828.43  | 0.1103 | A   | 1.2 |
| 5 | <input type="checkbox"/> | 625.000  | 656.074    | 3534057.07  | 0.2905 | A   | 8.4 |
| 6 | <input type="checkbox"/> | 1250.000 | 1250.403   | 7061201.46  | 0.5536 | A   | 1.7 |
| 7 | <input type="checkbox"/> | 2500.000 | 2579.141   | 14166194.24 | 1.1419 | A   | 5.4 |
| 8 | <input type="checkbox"/> | 5000.000 | 4956.493   | 28312261.05 | 2.1943 | A   | 0.7 |
| 9 | <input type="checkbox"/> |          |            | 50439.34    | 0.0040 | P   | 3.7 |

$$y = 4.4272\text{E-}004 * x + 2.0351\text{E-}005$$

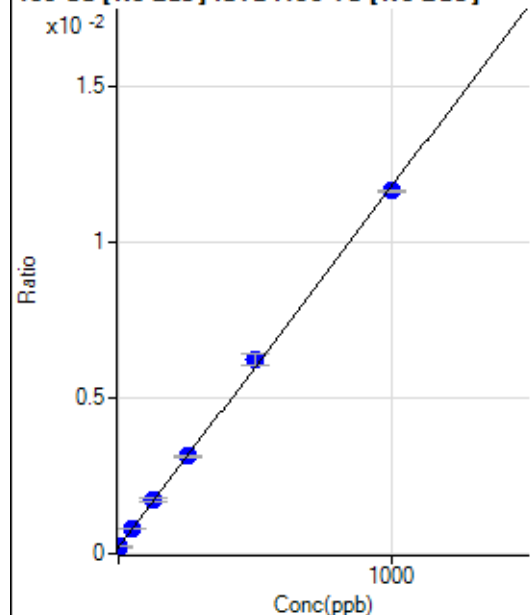
$$R = 0.9998$$

$$DL = 0.008833$$

$$BEC = 0.04597$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS       | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|-----------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 3408.92   | 0.0002 | P   | 3.1 |
| 2 | <input type="checkbox"/> | 0.100    |            |           |        |     |     |
| 3 | <input type="checkbox"/> | 1.000    | 1.210      | 3536.74   | 0.0002 | P   | 3.4 |
| 4 | <input type="checkbox"/> | 50.000   | 51.245     | 13448.90  | 0.0008 | P   | 3.0 |
| 5 | <input type="checkbox"/> | 125.000  | 132.297    | 27314.81  | 0.0017 | P   | 7.0 |
| 6 | <input type="checkbox"/> | 250.000  | 251.888    | 51348.50  | 0.0031 | P   | 3.1 |
| 7 | <input type="checkbox"/> | 500.000  | 520.726    | 101004.54 | 0.0062 | P   | 6.3 |
| 8 | <input type="checkbox"/> | 1000.000 | 988.191    | 195588.51 | 0.0116 | P   | 0.6 |
| 9 | <input type="checkbox"/> |          |            | 3436.71   | 0.0002 | P   | 5.4 |

$$y = 1.1553\text{E-}005 * x + 2.0964\text{E-}004$$

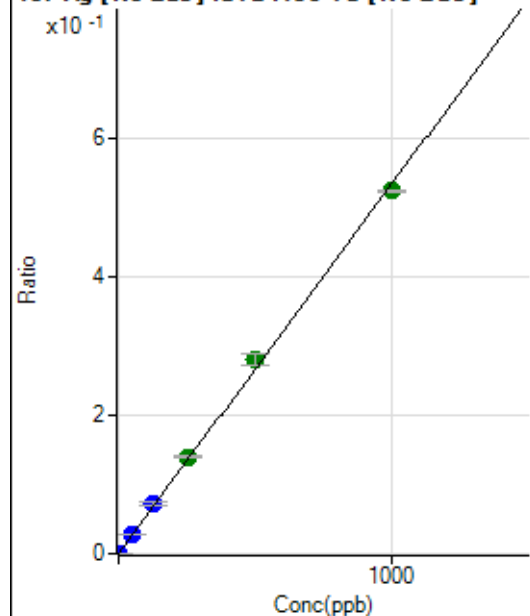
$$R = 0.9997$$

$$DL = 1.664$$

$$BEC = 18.15$$

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      | 105.56     | 0.0000 | P   | 37.4 |
| 2 | <input type="checkbox"/> | 0.100    |            |            |        |     |      |
| 3 | <input type="checkbox"/> | 1.000    | 1.095      | 9334.17    | 0.0006 | P   | 8.5  |
| 4 | <input type="checkbox"/> | 50.000   | 52.250     | 467219.52  | 0.0278 | P   | 0.9  |
| 5 | <input type="checkbox"/> | 125.000  | 133.618    | 1118796.68 | 0.0712 | P   | 7.4  |
| 6 | <input type="checkbox"/> | 250.000  | 262.887    | 2306344.45 | 0.1401 | A   | 0.7  |
| 7 | <input type="checkbox"/> | 500.000  | 526.770    | 4554860.39 | 0.2807 | A   | 5.8  |
| 8 | <input type="checkbox"/> | 1000.000 | 982.203    | 8804710.44 | 0.5234 | A   | 0.7  |
| 9 | <input type="checkbox"/> |          |            | 977.86     | 0.0001 | P   | 5.3  |

$$y = 5.3286\text{E-}004 * x + 6.4927\text{E-}006$$

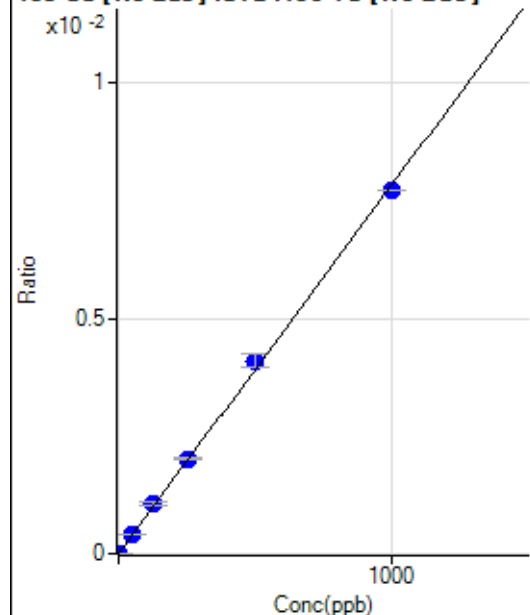
$$R = 0.9993$$

$$DL = 0.01367$$

$$BEC = 0.01218$$

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      | 12.50     | 0.0000 | P   | 33.8 |
| 2 | <input type="checkbox"/> | 0.100    |            |           |        |     |      |
| 3 | <input type="checkbox"/> | 1.000    | 1.023      | 138.89    | 0.0000 | P   | 11.8 |
| 4 | <input type="checkbox"/> | 50.000   | 52.312     | 6883.85   | 0.0004 | P   | 2.8  |
| 5 | <input type="checkbox"/> | 125.000  | 133.781    | 16458.97  | 0.0010 | P   | 8.4  |
| 6 | <input type="checkbox"/> | 250.000  | 257.874    | 33244.05  | 0.0020 | P   | 0.9  |
| 7 | <input type="checkbox"/> | 500.000  | 524.018    | 66538.65  | 0.0041 | P   | 7.2  |
| 8 | <input type="checkbox"/> | 1000.000 | 984.809    | 129696.94 | 0.0077 | P   | 0.1  |
| 9 | <input type="checkbox"/> |          |            | 68.06     | 0.0000 | P   | 16.6 |

$$y = 7.8276E-006 * x + 7.7004E-007$$

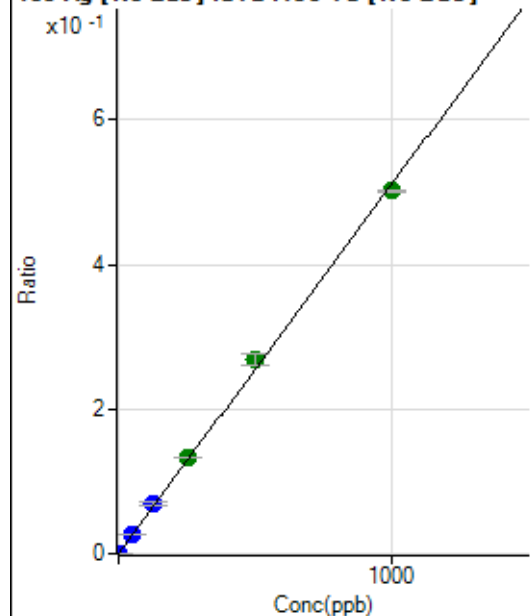
$$R = 0.9995$$

$$DL = 0.09981$$

$$BEC = 0.09837$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 44.45      | 0.0000 | P   | 39.3 |
| 2 | <input type="checkbox"/> | 0.100    |            |            |        |     |      |
| 3 | <input type="checkbox"/> | 1.000    | 1.017      | 8258.50    | 0.0005 | P   | 3.5  |
| 4 | <input type="checkbox"/> | 50.000   | 52.193     | 447165.47  | 0.0267 | P   | 0.1  |
| 5 | <input type="checkbox"/> | 125.000  | 133.159    | 1068299.13 | 0.0680 | P   | 7.4  |
| 6 | <input type="checkbox"/> | 250.000  | 261.665    | 2199534.77 | 0.1336 | A   | 1.1  |
| 7 | <input type="checkbox"/> | 500.000  | 525.880    | 4357233.74 | 0.2685 | A   | 5.7  |
| 8 | <input type="checkbox"/> | 1000.000 | 983.014    | 8443753.83 | 0.5019 | A   | 0.3  |
| 9 | <input type="checkbox"/> |          |            | 952.86     | 0.0001 | P   | 25.0 |

$$y = 5.1059E-004 * x + 2.7346E-006$$

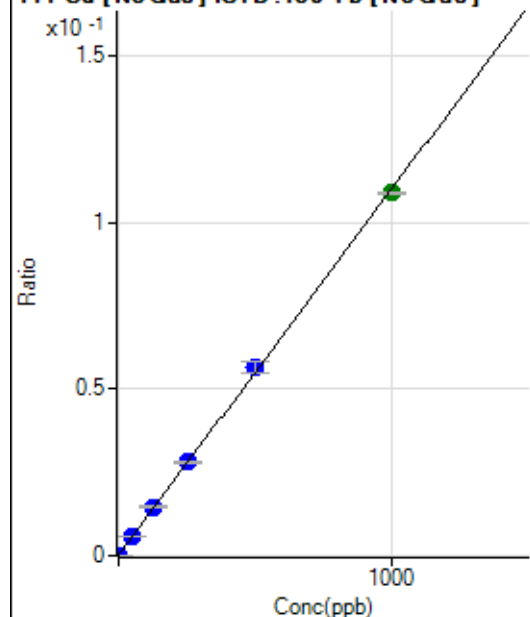
$$R = 0.9994$$

$$DL = 0.006308$$

$$BEC = 0.005356$$

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 | RSD |
|---|--------------------------|----------|------------|------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 2387.21    | 0.0001 | P   | 3.2 |
| 2 | <input type="checkbox"/> | 0.100    |            |            |        |     |     |
| 3 | <input type="checkbox"/> | 1.000    | 1.016      | 4085.59    | 0.0003 | P   | 5.0 |
| 4 | <input type="checkbox"/> | 50.000   | 51.526     | 97327.36   | 0.0058 | P   | 1.2 |
| 5 | <input type="checkbox"/> | 125.000  | 132.258    | 230428.48  | 0.0147 | P   | 6.7 |
| 6 | <input type="checkbox"/> | 250.000  | 253.663    | 460663.29  | 0.0280 | P   | 1.7 |
| 7 | <input type="checkbox"/> | 500.000  | 515.733    | 920644.25  | 0.0567 | P   | 6.1 |
| 8 | <input type="checkbox"/> | 1000.000 | 990.234    | 1830572.66 | 0.1088 | A   | 0.3 |
| 9 | <input type="checkbox"/> |          |            | 2852.53    | 0.0002 | P   | 7.5 |

$$y = 1.0974\text{E-}004 * x + 1.4681\text{E-}004$$

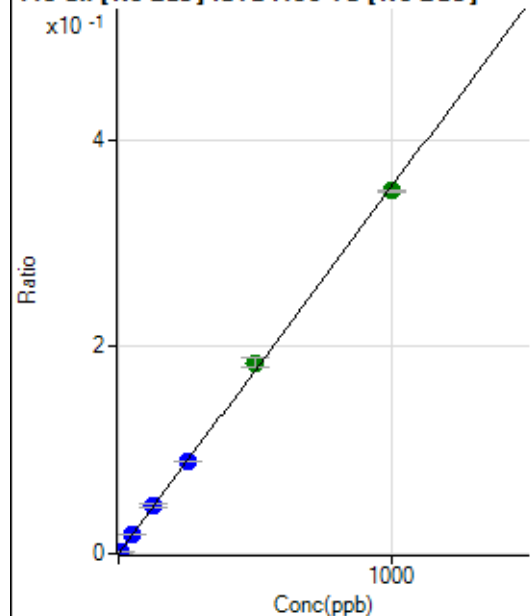
$$R = 0.9998$$

$$DL = 0.1278$$

$$BEC = 1.338$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 1297.35    | 0.0001 | P   | 7.5 |
| 2 | <input type="checkbox"/> | 0.500    |            |            |        |     |     |
| 3 | <input type="checkbox"/> | 5.000    | 5.051      | 29569.98   | 0.0019 | P   | 1.2 |
| 4 | <input type="checkbox"/> | 50.000   | 50.103     | 299199.27  | 0.0178 | P   | 1.5 |
| 5 | <input type="checkbox"/> | 125.000  | 130.358    | 726934.04  | 0.0463 | P   | 7.6 |
| 6 | <input type="checkbox"/> | 250.000  | 251.284    | 1467033.54 | 0.0891 | P   | 1.7 |
| 7 | <input type="checkbox"/> | 500.000  | 520.246    | 2992926.56 | 0.1844 | A   | 5.5 |
| 8 | <input type="checkbox"/> | 1000.000 | 988.881    | 5896002.09 | 0.3505 | A   | 0.3 |
| 9 | <input type="checkbox"/> |          |            | 15106.40   | 0.0009 | P   | 5.5 |

$$y = 3.5434\text{E-}004 * x + 7.9815\text{E-}005$$

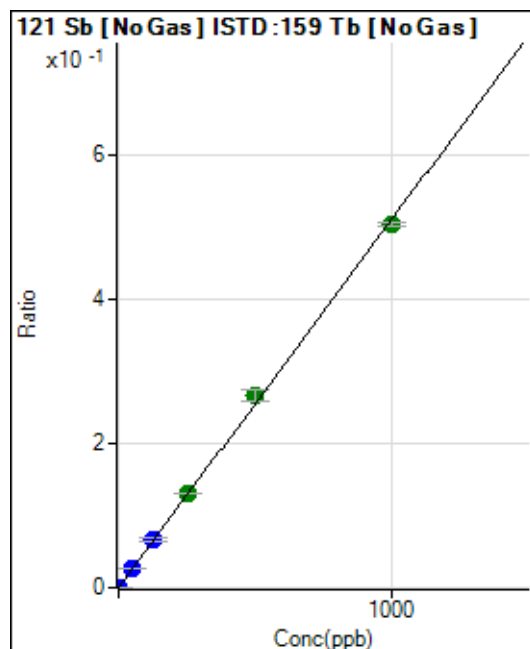
$$R = 0.9997$$

$$DL = 0.05039$$

$$BEC = 0.2253$$

Weight: &lt;None&gt;

Min Conc: 0



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD |
|---|--------------------------|----------|------------|------------|--------|------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 180.56     | 0.0000 | P    | 7.8 |
| 2 | <input type="checkbox"/> | 0.200    |            |            |        |      |     |
| 3 | <input type="checkbox"/> | 2.000    | 2.014      | 16424.72   | 0.0010 | P    | 1.0 |
| 4 | <input type="checkbox"/> | 50.000   | 50.138     | 429318.35  | 0.0256 | P    | 1.3 |
| 5 | <input type="checkbox"/> | 125.000  | 132.669    | 1063545.57 | 0.0677 | P    | 7.5 |
| 6 | <input type="checkbox"/> | 250.000  | 255.796    | 2148401.72 | 0.1305 | A    | 1.6 |
| 7 | <input type="checkbox"/> | 500.000  | 522.595    | 4325833.56 | 0.2666 | A    | 6.1 |
| 8 | <input type="checkbox"/> | 1000.000 | 986.288    | 8464777.19 | 0.5032 | A    | 0.9 |
| 9 | <input type="checkbox"/> |          |            | 23688.60   | 0.0015 | P    | 4.7 |

$$y = 5.1016\text{E-}004 * x + 1.1111\text{E-}005$$

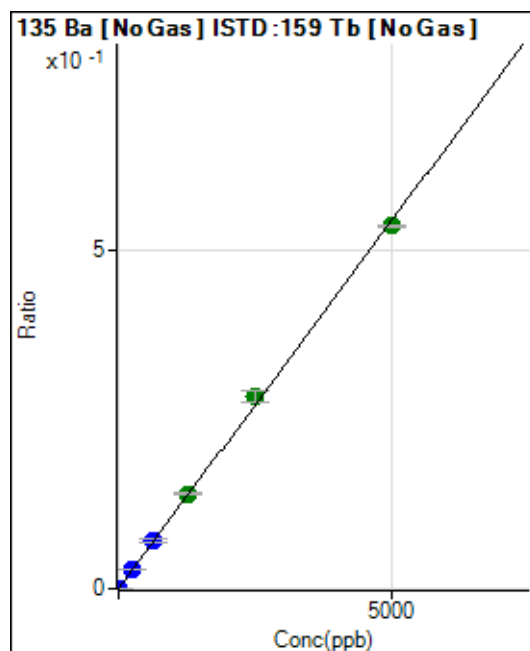
$$R = 0.9996$$

$$DL = 0.005113$$

$$BEC = 0.02178$$

Weight: <None>

Min Conc: 0



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 50.00      | 0.0000 | P    | 1.0  |
| 2 | <input type="checkbox"/> | 1.000    |            |            |        |      |      |
| 3 | <input type="checkbox"/> | 10.000   | 9.928      | 17078.44   | 0.0011 | P    | 2.7  |
| 4 | <input type="checkbox"/> | 250.000  | 255.200    | 464381.60  | 0.0277 | P    | 0.7  |
| 5 | <input type="checkbox"/> | 625.000  | 657.658    | 1120422.86 | 0.0713 | P    | 7.8  |
| 6 | <input type="checkbox"/> | 1250.000 | 1283.947   | 2292218.50 | 0.1392 | A    | 1.8  |
| 7 | <input type="checkbox"/> | 2500.000 | 2608.159   | 4589546.24 | 0.2829 | A    | 6.0  |
| 8 | <input type="checkbox"/> | 5000.000 | 4933.091   | 8999933.79 | 0.5350 | A    | 0.5  |
| 9 | <input type="checkbox"/> |          |            | 1664.08    | 0.0001 | P    | 14.3 |

$$y = 1.0845\text{E-}004 * x + 3.0757\text{E-}006$$

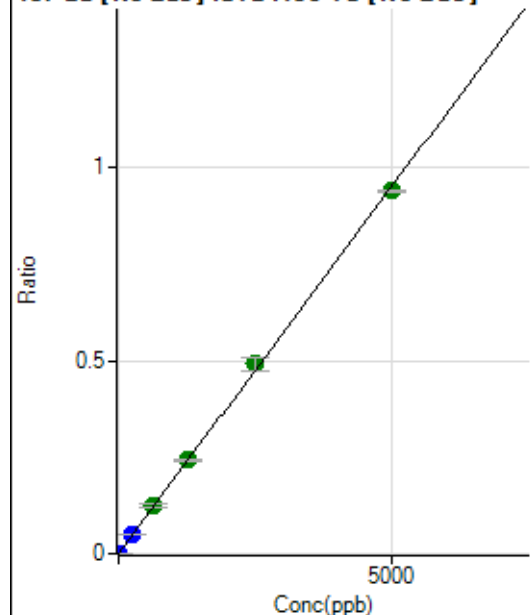
$$R = 0.9996$$

$$DL = 0.0008674$$

$$BEC = 0.02836$$

Weight: <None>

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 69.45       | 0.0000 | P   | 24.2 |
| 2 | <input type="checkbox"/> | 1.000    |            |             |        |     |      |
| 3 | <input type="checkbox"/> | 10.000   | 10.082     | 30349.68    | 0.0019 | P   | 1.6  |
| 4 | <input type="checkbox"/> | 250.000  | 255.746    | 814854.28   | 0.0486 | P   | 0.5  |
| 5 | <input type="checkbox"/> | 625.000  | 663.049    | 1978194.64  | 0.1259 | A   | 7.5  |
| 6 | <input type="checkbox"/> | 1250.000 | 1277.900   | 3994809.38  | 0.2427 | A   | 1.3  |
| 7 | <input type="checkbox"/> | 2500.000 | 2585.829   | 7965987.33  | 0.4910 | A   | 6.4  |
| 8 | <input type="checkbox"/> | 5000.000 | 4945.067   | 15796893.76 | 0.9390 | A   | 0.6  |
| 9 | <input type="checkbox"/> |          |            | 2850.44     | 0.0002 | P   | 15.0 |

$$y = 1.8989E-004 * x + 4.2654E-006$$

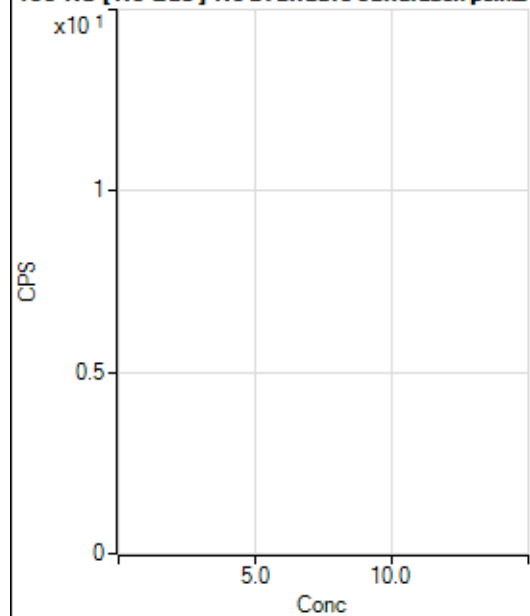
$$R = 0.9997$$

$$DL = 0.01629$$

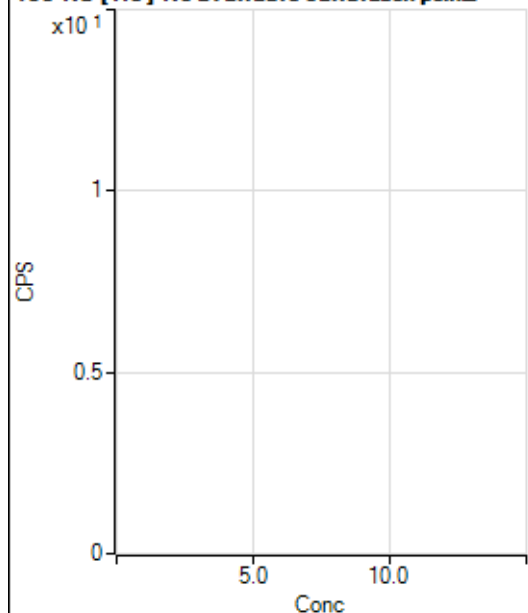
$$BEC = 0.02246$$

Weight: &lt;None&gt;

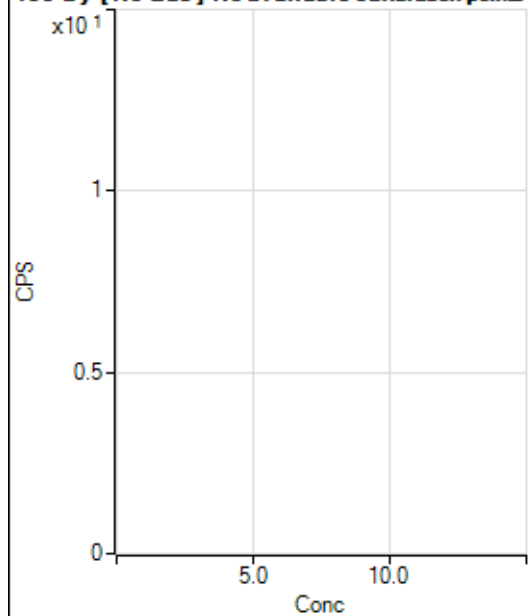
Min Conc: 0

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

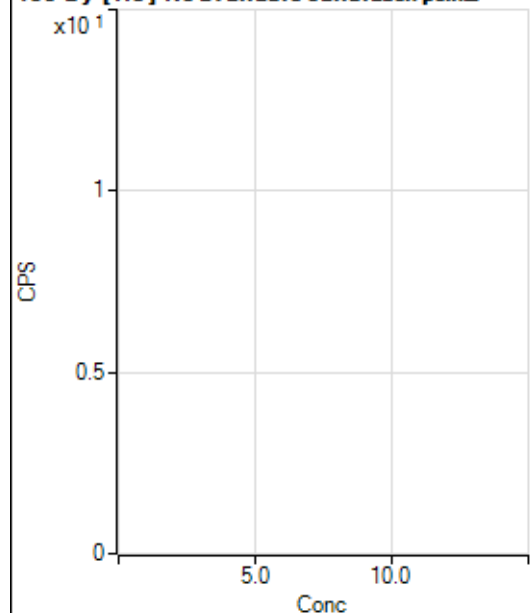
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det | RSD   |
|---|--------------------------|-------|------------|--------|-------|-----|-------|
| 1 | <input type="checkbox"/> |       |            | 8.89   |       | P   | 86.6  |
| 2 | <input type="checkbox"/> |       |            |        |       |     |       |
| 3 | <input type="checkbox"/> |       |            | 6.67   |       | P   | 100.0 |
| 4 | <input type="checkbox"/> |       |            | 40.00  |       | P   | 44.1  |
| 5 | <input type="checkbox"/> |       |            | 88.89  |       | P   | 45.8  |
| 6 | <input type="checkbox"/> |       |            | 128.90 |       | P   | 10.8  |
| 7 | <input type="checkbox"/> |       |            | 202.23 |       | P   | 12.5  |
| 8 | <input type="checkbox"/> |       |            | 408.91 |       | P   | 17.1  |
| 9 | <input type="checkbox"/> |       |            | 117.78 |       | P   | 29.0  |

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

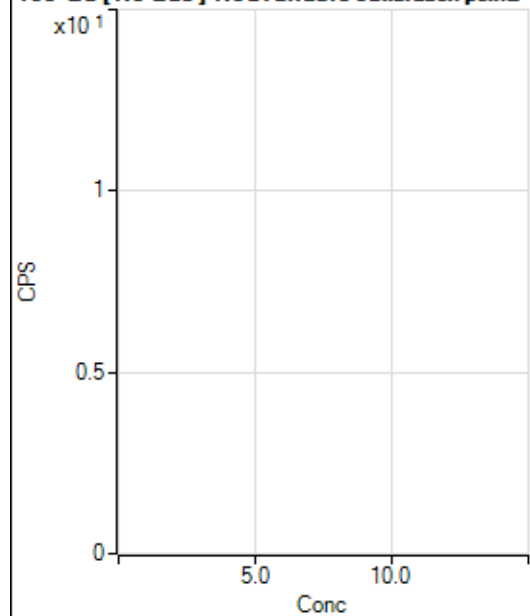
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS   | Ratio | Det<br>. | RSD   |
|---|--------------------------|-------|------------|-------|-------|----------|-------|
| 1 | <input type="checkbox"/> |       |            | 0.00  |       | P        |       |
| 2 | <input type="checkbox"/> |       |            |       |       |          |       |
| 3 | <input type="checkbox"/> |       |            | 0.00  |       | P        |       |
| 4 | <input type="checkbox"/> |       |            | 2.22  |       | P        | 86.6  |
| 5 | <input type="checkbox"/> |       |            | 2.22  |       | P        | 86.6  |
| 6 | <input type="checkbox"/> |       |            | 6.66  |       | P        | 86.6  |
| 7 | <input type="checkbox"/> |       |            | 3.33  |       | P        | 100.1 |
| 8 | <input type="checkbox"/> |       |            | 13.33 |       | P        | 25.0  |
| 9 | <input type="checkbox"/> |       |            | 22.22 |       | P        | 60.6  |

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

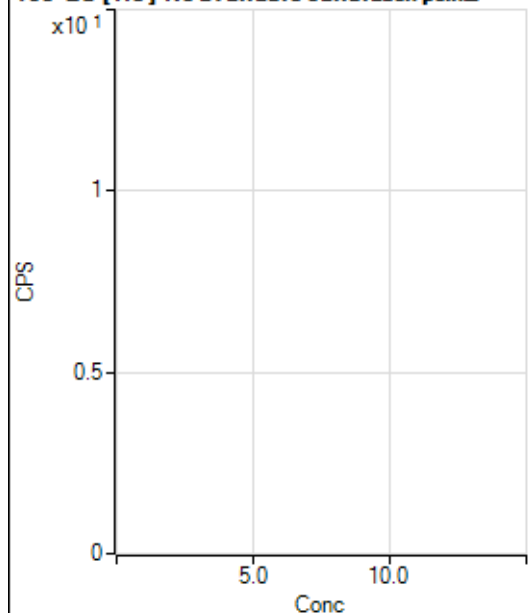
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 19.45  |       | P        | 24.7 |
| 2 | <input type="checkbox"/> |       |            |        |       |          |      |
| 3 | <input type="checkbox"/> |       |            | 16.67  |       | P        | 50.0 |
| 4 | <input type="checkbox"/> |       |            | 27.78  |       | P        | 34.6 |
| 5 | <input type="checkbox"/> |       |            | 36.11  |       | P        | 35.3 |
| 6 | <input type="checkbox"/> |       |            | 72.23  |       | P        | 46.6 |
| 7 | <input type="checkbox"/> |       |            | 75.00  |       | P        | 29.4 |
| 8 | <input type="checkbox"/> |       |            | 136.12 |       | P        | 18.7 |
| 9 | <input type="checkbox"/> |       |            | 97.23  |       | P        | 26.2 |

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

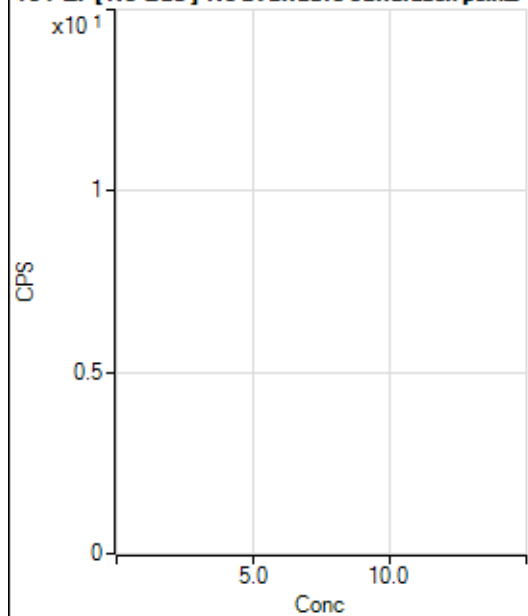
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS   | Ratio | Det<br>. | RSD   |
|---|--------------------------|-------|------------|-------|-------|----------|-------|
| 1 | <input type="checkbox"/> |       |            | 2.22  |       | P        | 173.2 |
| 2 | <input type="checkbox"/> |       |            |       |       |          |       |
| 3 | <input type="checkbox"/> |       |            | 2.22  |       | P        | 86.6  |
| 4 | <input type="checkbox"/> |       |            | 3.33  |       | P        | 100.1 |
| 5 | <input type="checkbox"/> |       |            | 2.22  |       | P        | 86.6  |
| 6 | <input type="checkbox"/> |       |            | 6.67  |       | P        | 0.0   |
| 7 | <input type="checkbox"/> |       |            | 1.11  |       | P        | 173.2 |
| 8 | <input type="checkbox"/> |       |            | 11.11 |       | P        | 45.8  |
| 9 | <input type="checkbox"/> |       |            | 16.67 |       | P        | 40.0  |

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

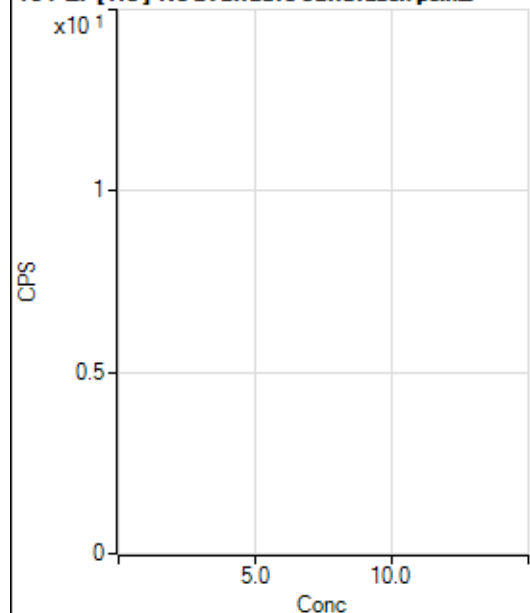
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 169.45 |       | P        | 29.6 |
| 2 | <input type="checkbox"/> |       |            |        |       |          |      |
| 3 | <input type="checkbox"/> |       |            | 152.78 |       | P        | 33.3 |
| 4 | <input type="checkbox"/> |       |            | 200.01 |       | P        | 14.4 |
| 5 | <input type="checkbox"/> |       |            | 147.23 |       | P        | 18.2 |
| 6 | <input type="checkbox"/> |       |            | 169.45 |       | P        | 11.4 |
| 7 | <input type="checkbox"/> |       |            | 113.89 |       | P        | 22.4 |
| 8 | <input type="checkbox"/> |       |            | 127.79 |       | P        | 3.8  |
| 9 | <input type="checkbox"/> |       |            | 169.45 |       | P        | 5.7  |

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

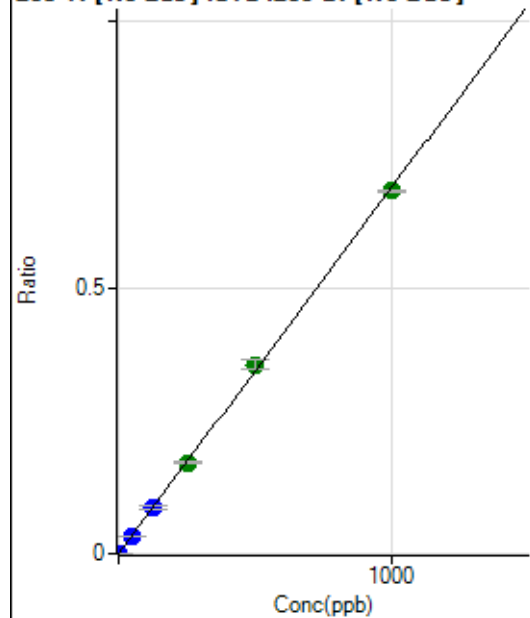
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS   | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|-------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 16.67 |       | P        | NaN  |
| 2 | <input type="checkbox"/> |       |            |       |       |          |      |
| 3 | <input type="checkbox"/> |       |            | 25.55 |       | P        | 52.7 |
| 4 | <input type="checkbox"/> |       |            | 10.00 |       | P        | 66.7 |
| 5 | <input type="checkbox"/> |       |            | 20.00 |       | P        | 16.7 |
| 6 | <input type="checkbox"/> |       |            | 27.78 |       | P        | 34.6 |
| 7 | <input type="checkbox"/> |       |            | 17.78 |       | P        | 57.3 |
| 8 | <input type="checkbox"/> |       |            | 22.22 |       | P        | 22.9 |
| 9 | <input type="checkbox"/> |       |            | 28.89 |       | P        | 29.0 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS   | Ratio | Det<br>. | RSD   |
|---|--------------------------|-------|------------|-------|-------|----------|-------|
| 1 | <input type="checkbox"/> |       |            | 44.45 |       | P        | 10.8  |
| 2 | <input type="checkbox"/> |       |            |       |       |          |       |
| 3 | <input type="checkbox"/> |       |            | 88.90 |       | P        | 30.1  |
| 4 | <input type="checkbox"/> |       |            | 55.56 |       | P        | 8.7   |
| 5 | <input type="checkbox"/> |       |            | 41.67 |       | P        | 103.9 |
| 6 | <input type="checkbox"/> |       |            | 50.00 |       | P        | 16.7  |
| 7 | <input type="checkbox"/> |       |            | 44.45 |       | P        | 39.0  |
| 8 | <input type="checkbox"/> |       |            | 91.67 |       | P        | 32.8  |
| 9 | <input type="checkbox"/> |       |            | 50.00 |       | P        | 50.0  |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS   | Ratio | Det | RSD  |
|---|--------------------------|-------|------------|-------|-------|-----|------|
| 1 | <input type="checkbox"/> |       |            | 10.00 |       | P   | 66.7 |
| 2 | <input type="checkbox"/> |       |            |       |       |     |      |
| 3 | <input type="checkbox"/> |       |            | 11.11 |       | P   | 34.6 |
| 4 | <input type="checkbox"/> |       |            | 6.66  |       | P   | 86.6 |
| 5 | <input type="checkbox"/> |       |            | 8.89  |       | P   | 21.6 |
| 6 | <input type="checkbox"/> |       |            | 4.45  |       | P   | 86.6 |
| 7 | <input type="checkbox"/> |       |            | 8.89  |       | P   | 43.3 |
| 8 | <input type="checkbox"/> |       |            | 10.00 |       | P   | 88.2 |
| 9 | <input type="checkbox"/> |       |            | 10.00 |       | P   | 33.3 |

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 213.90     | 0.0000 | P   | 8.1 |
| 2 | <input type="checkbox"/> | 0.100    |            |            |        |     |     |
| 3 | <input type="checkbox"/> | 1.000    | 0.992      | 7066.20    | 0.0007 | P   | 2.2 |
| 4 | <input type="checkbox"/> | 50.000   | 49.290     | 355605.03  | 0.0339 | P   | 2.4 |
| 5 | <input type="checkbox"/> | 125.000  | 127.676    | 865762.16  | 0.0879 | P   | 8.6 |
| 6 | <input type="checkbox"/> | 250.000  | 249.462    | 1777651.64 | 0.1717 | A   | 0.5 |
| 7 | <input type="checkbox"/> | 500.000  | 517.151    | 3607269.70 | 0.3560 | A   | 5.5 |
| 8 | <input type="checkbox"/> | 1000.000 | 991.260    | 7103587.66 | 0.6823 | A   | 0.7 |
| 9 | <input type="checkbox"/> |          |            | 4342.63    | 0.0005 | P   | 8.0 |

$$y = 6.8832E-004 * x + 2.0605E-005$$

$$R = 0.9998$$

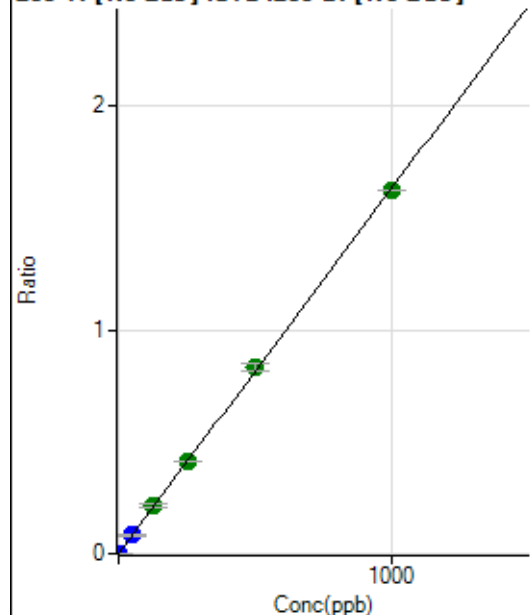
$$DL = 0.007264$$

$$BEC = 0.02994$$

Weight: <None>

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 413.91      | 0.0000 | P   | 14.1 |
| 2 | <input type="checkbox"/> | 0.100    |            |             |        |     |      |
| 3 | <input type="checkbox"/> | 1.000    | 0.999      | 16781.33    | 0.0017 | P   | 2.0  |
| 4 | <input type="checkbox"/> | 50.000   | 50.163     | 857570.66   | 0.0819 | P   | 2.1  |
| 5 | <input type="checkbox"/> | 125.000  | 130.835    | 2102890.98  | 0.2135 | A   | 8.2  |
| 6 | <input type="checkbox"/> | 250.000  | 250.768    | 4234633.91  | 0.4091 | A   | 0.2  |
| 7 | <input type="checkbox"/> | 500.000  | 511.060    | 8449178.23  | 0.8337 | A   | 4.9  |
| 8 | <input type="checkbox"/> | 1000.000 | 993.541    | 16872693.78 | 1.6207 | A   | 0.1  |
| 9 | <input type="checkbox"/> |          |            | 10084.99    | 0.0011 | P   | 5.2  |

$$y = 0.0016 * x + 3.9896E-005$$

$$R = 0.9999$$

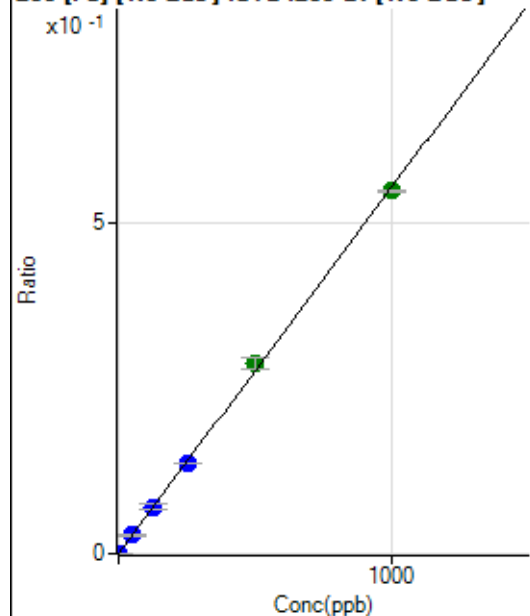
$$DL = 0.01035$$

$$BEC = 0.02446$$

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      | 346.31     | 0.0000 | P   | 8.3 |
| 2 | <input type="checkbox"/> | 0.100    |            |            |        |     |     |
| 3 | <input type="checkbox"/> | 1.000    | 1.008      | 5940.47    | 0.0006 | P   | 0.5 |
| 4 | <input type="checkbox"/> | 50.000   | 49.969     | 290010.84  | 0.0277 | P   | 1.2 |
| 5 | <input type="checkbox"/> | 125.000  | 128.587    | 701037.10  | 0.0712 | P   | 8.8 |
| 6 | <input type="checkbox"/> | 250.000  | 247.192    | 1416204.23 | 0.1368 | P   | 0.7 |
| 7 | <input type="checkbox"/> | 500.000  | 518.846    | 2909042.28 | 0.2871 | A   | 5.9 |
| 8 | <input type="checkbox"/> | 1000.000 | 990.832    | 5708271.89 | 0.5483 | A   | 0.4 |
| 9 | <input type="checkbox"/> |          |            | 35229.04   | 0.0037 | P   | 2.7 |

$$y = 5.5333E-004 * x + 3.3366E-005$$

$$R = 0.9997$$

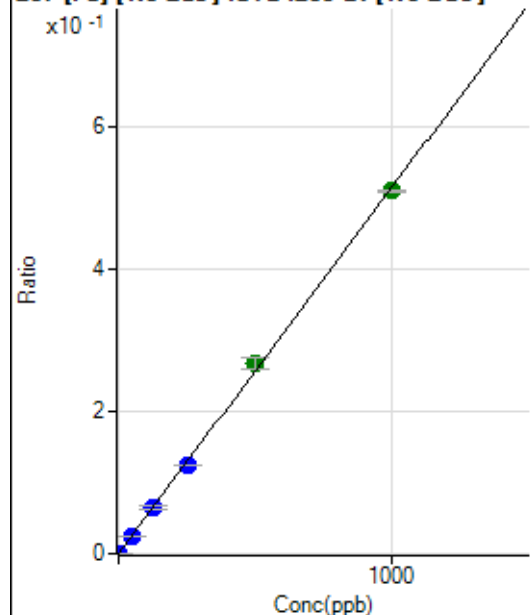
$$DL = 0.01507$$

$$BEC = 0.0603$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 342.61     | 0.0000 | P   | 8.8 |
| 2 | <input type="checkbox"/> | 0.100    |            |            |        |     |     |
| 3 | <input type="checkbox"/> | 1.000    | 1.022      | 5603.26    | 0.0006 | P   | 2.8 |
| 4 | <input type="checkbox"/> | 50.000   | 48.478     | 261099.73  | 0.0249 | P   | 1.0 |
| 5 | <input type="checkbox"/> | 125.000  | 126.007    | 637512.82  | 0.0647 | P   | 8.7 |
| 6 | <input type="checkbox"/> | 250.000  | 241.812    | 1285427.45 | 0.1242 | P   | 1.2 |
| 7 | <input type="checkbox"/> | 500.000  | 519.989    | 2705452.98 | 0.2670 | A   | 5.7 |
| 8 | <input type="checkbox"/> | 1000.000 | 992.003    | 5302850.93 | 0.5094 | A   | 0.2 |
| 9 | <input type="checkbox"/> |          |            | 29820.79   | 0.0031 | P   | 3.3 |

$$y = 5.1343\text{E-}004 * x + 3.3001\text{E-}005$$

$$R = 0.9997$$

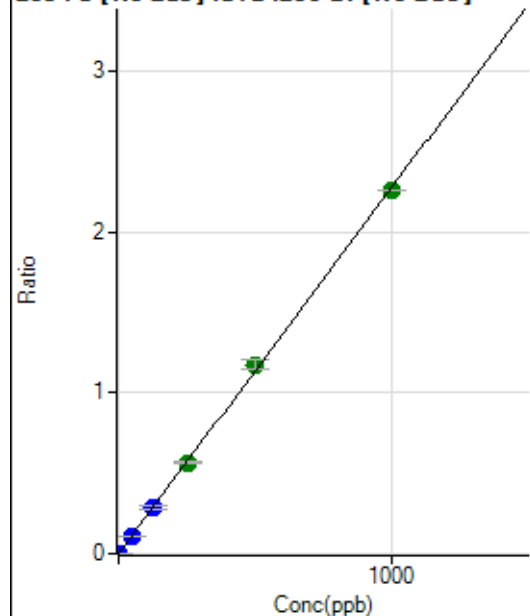
$$DL = 0.01695$$

$$BEC = 0.06428$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|-------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 1542.68     | 0.0001 | P   | 2.8 |
| 2 | <input type="checkbox"/> | 0.100    |            |             |        |     |     |
| 3 | <input type="checkbox"/> | 1.000    | 0.997      | 24304.22    | 0.0024 | P   | 2.3 |
| 4 | <input type="checkbox"/> | 50.000   | 49.321     | 1177925.29  | 0.1124 | P   | 1.2 |
| 5 | <input type="checkbox"/> | 125.000  | 127.753    | 2866071.17  | 0.2910 | P   | 8.7 |
| 6 | <input type="checkbox"/> | 250.000  | 248.710    | 5862729.17  | 0.5664 | A   | 1.3 |
| 7 | <input type="checkbox"/> | 500.000  | 516.976    | 11928854.49 | 1.1772 | A   | 5.4 |
| 8 | <input type="checkbox"/> | 1000.000 | 991.524    | 23503746.24 | 2.2576 | A   | 0.2 |
| 9 | <input type="checkbox"/> |          |            | 138143.28   | 0.0145 | P   | 4.2 |

$$y = 0.0023 * x + 1.4863\text{E-}004$$

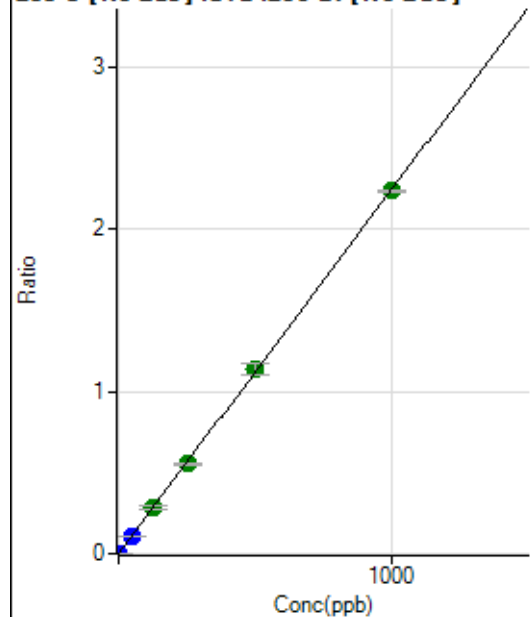
$$R = 0.9998$$

$$DL = 0.005512$$

$$BEC = 0.06528$$

Weight: &lt;None&gt;

Min Conc: 0

**238 U [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      | 163.90      | 0.0000 | P    | 14.9 |
| 2 | <input type="checkbox"/> | 0.100    |            |             |        |      |      |
| 3 | <input type="checkbox"/> | 1.000    | 0.941      | 21377.68    | 0.0021 | P    | 1.3  |
| 4 | <input type="checkbox"/> | 50.000   | 48.150     | 1132038.03  | 0.1081 | P    | 1.6  |
| 5 | <input type="checkbox"/> | 125.000  | 126.958    | 2806696.72  | 0.2849 | A    | 8.2  |
| 6 | <input type="checkbox"/> | 250.000  | 245.954    | 5712977.08  | 0.5519 | A    | 0.9  |
| 7 | <input type="checkbox"/> | 500.000  | 507.748    | 11543135.33 | 1.1394 | A    | 6.0  |
| 8 | <input type="checkbox"/> | 1000.000 | 996.985    | 23290948.78 | 2.2372 | A    | 0.4  |
| 9 | <input type="checkbox"/> |          |            | 1961.38     | 0.0002 | P    | 13.3 |

$$y = 0.0022 * x + 1.5778E-005$$

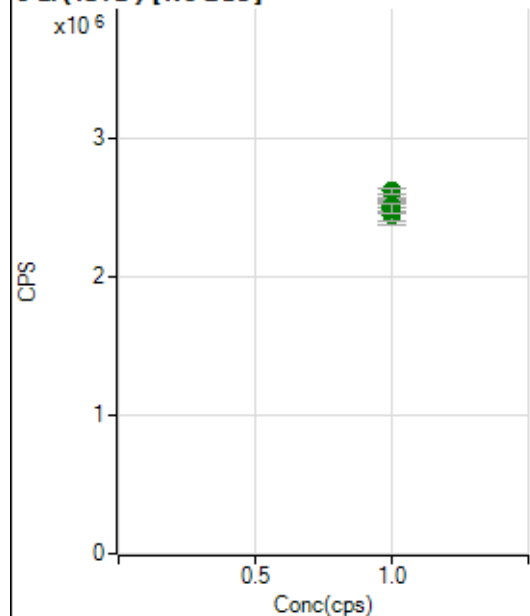
$$R = 0.9999$$

$$DL = 0.003135$$

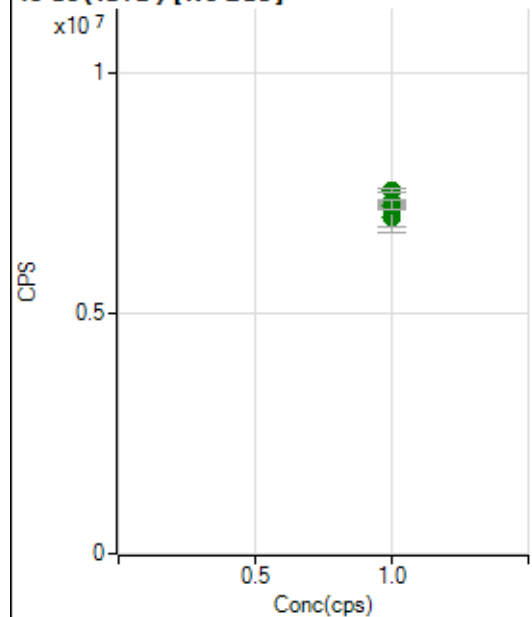
$$BEC = 0.007031$$

Weight: &lt;None&gt;

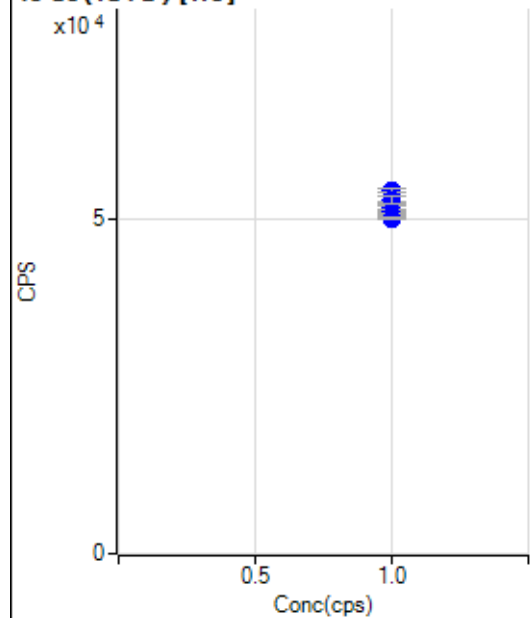
Min Conc: 0

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

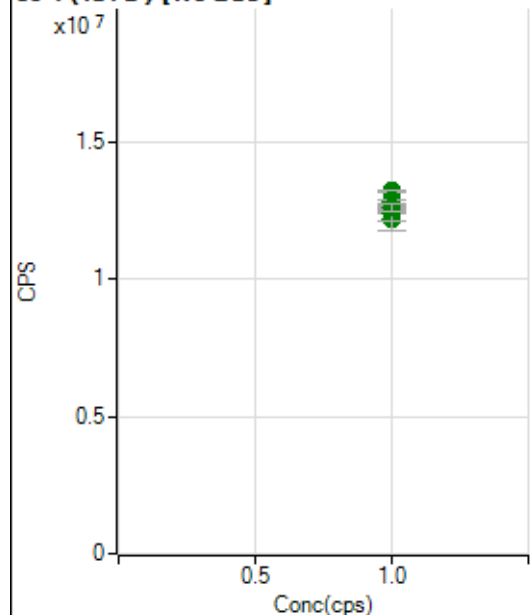
|   | R <sub>j</sub><br>ct     | Conc. | Calc Conc. | CPS        | Ratio | Det. | RSD |
|---|--------------------------|-------|------------|------------|-------|------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 2557745.49 |       | A    | 0.5 |
| 2 | <input type="checkbox"/> | 1.000 |            |            |       |      |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 2485073.64 |       | A    | 1.5 |
| 4 | <input type="checkbox"/> | 1.000 |            | 2617679.84 |       | A    | 1.5 |
| 5 | <input type="checkbox"/> | 1.000 |            | 2453391.40 |       | A    | 6.8 |
| 6 | <input type="checkbox"/> | 1.000 |            | 2510172.38 |       | A    | 0.8 |
| 7 | <input type="checkbox"/> | 1.000 |            | 2446253.28 |       | A    | 4.3 |
| 8 | <input type="checkbox"/> | 1.000 |            | 2483844.84 |       | A    | 0.9 |
| 9 | <input type="checkbox"/> | 1.000 |            | 2491068.33 |       | A    | 2.5 |

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

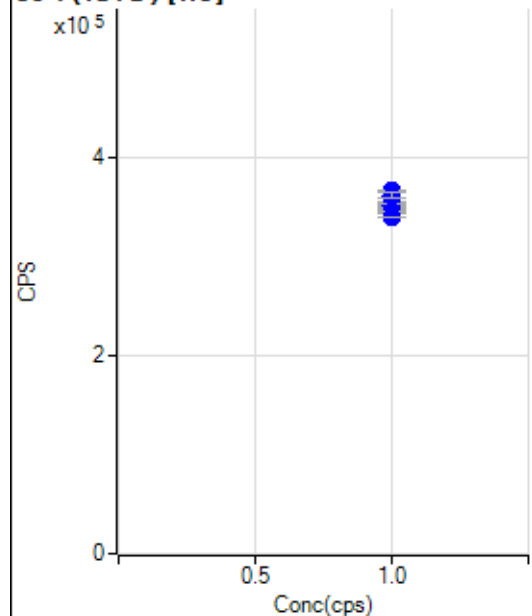
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det | RSD |
|---|--------------------------|-------|------------|------------|-------|-----|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 7305431.68 |       | A   | 1.0 |
| 2 | <input type="checkbox"/> | 1.000 |            |            |       |     |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 7210058.23 |       | A   | 1.9 |
| 4 | <input type="checkbox"/> | 1.000 |            | 7541325.95 |       | A   | 1.0 |
| 5 | <input type="checkbox"/> | 1.000 |            | 6985091.04 |       | A   | 8.4 |
| 6 | <input type="checkbox"/> | 1.000 |            | 7262263.88 |       | A   | 1.1 |
| 7 | <input type="checkbox"/> | 1.000 |            | 6984136.70 |       | A   | 5.5 |
| 8 | <input type="checkbox"/> | 1.000 |            | 7230788.01 |       | A   | 0.7 |
| 9 | <input type="checkbox"/> | 1.000 |            | 7251728.46 |       | A   | 2.9 |

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

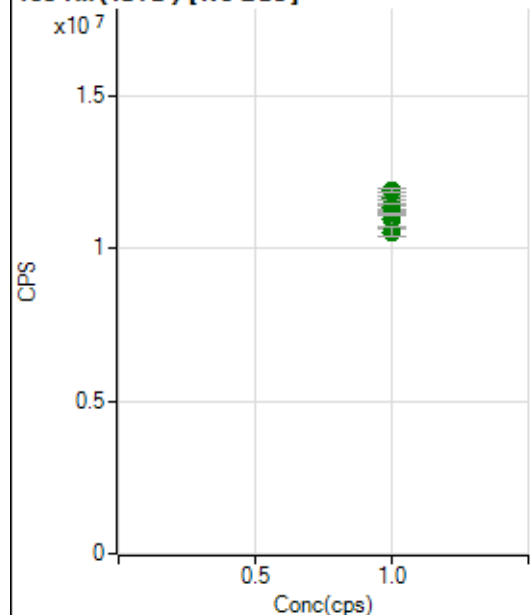
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS      | Ratio | Det | RSD |
|---|--------------------------|-------|------------|----------|-------|-----|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 51892.39 |       | P   | 2.7 |
| 2 | <input type="checkbox"/> | 1.000 |            |          |       |     |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 51691.57 |       | P   | 1.8 |
| 4 | <input type="checkbox"/> | 1.000 |            | 54269.84 |       | P   | 1.1 |
| 5 | <input type="checkbox"/> | 1.000 |            | 50936.46 |       | P   | 1.3 |
| 6 | <input type="checkbox"/> | 1.000 |            | 51179.60 |       | P   | 1.2 |
| 7 | <input type="checkbox"/> | 1.000 |            | 50746.98 |       | P   | 0.7 |
| 8 | <input type="checkbox"/> | 1.000 |            | 50192.78 |       | P   | 0.1 |
| 9 | <input type="checkbox"/> | 1.000 |            | 52979.71 |       | P   | 2.2 |

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

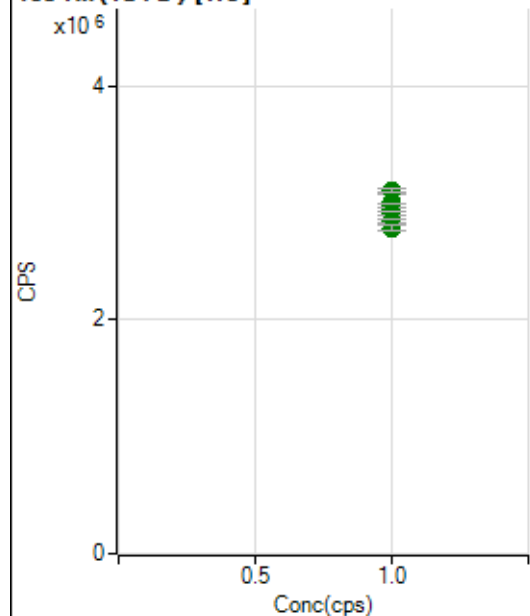
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det | RSD |
|---|--------------------------|-------|------------|-------------|-------|-----|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 12829931.06 |       | A   | 0.8 |
| 2 | <input type="checkbox"/> | 1.000 |            |             |       |     |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 12481932.18 |       | A   | 1.1 |
| 4 | <input type="checkbox"/> | 1.000 |            | 13221089.94 |       | A   | 0.7 |
| 5 | <input type="checkbox"/> | 1.000 |            | 12216746.21 |       | A   | 7.4 |
| 6 | <input type="checkbox"/> | 1.000 |            | 12757339.25 |       | A   | 1.8 |
| 7 | <input type="checkbox"/> | 1.000 |            | 12429125.51 |       | A   | 5.1 |
| 8 | <input type="checkbox"/> | 1.000 |            | 12902429.25 |       | A   | 0.1 |
| 9 | <input type="checkbox"/> | 1.000 |            | 12593328.42 |       | A   | 2.4 |

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

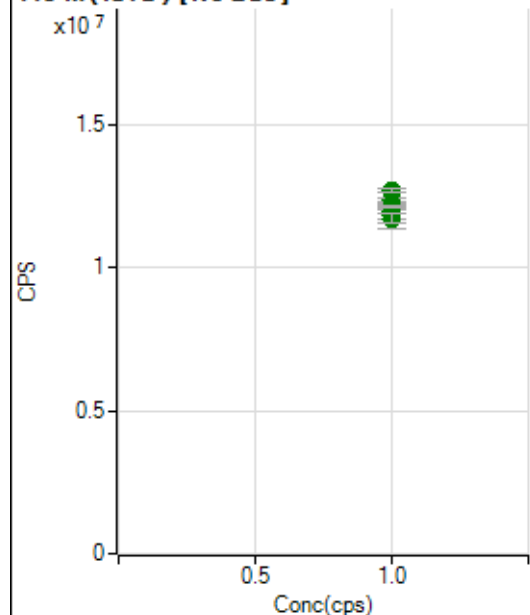
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS       | Ratio | Det | RSD |
|---|--------------------------|-------|------------|-----------|-------|-----|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 350017.14 |       | P   | 3.8 |
| 2 | <input type="checkbox"/> | 1.000 |            |           |       |     |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 346337.08 |       | P   | 1.7 |
| 4 | <input type="checkbox"/> | 1.000 |            | 366944.34 |       | P   | 0.4 |
| 5 | <input type="checkbox"/> | 1.000 |            | 349707.77 |       | P   | 1.2 |
| 6 | <input type="checkbox"/> | 1.000 |            | 352106.27 |       | P   | 0.9 |
| 7 | <input type="checkbox"/> | 1.000 |            | 345452.10 |       | P   | 0.5 |
| 8 | <input type="checkbox"/> | 1.000 |            | 340890.53 |       | P   | 0.1 |
| 9 | <input type="checkbox"/> | 1.000 |            | 361967.79 |       | P   | 1.6 |

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

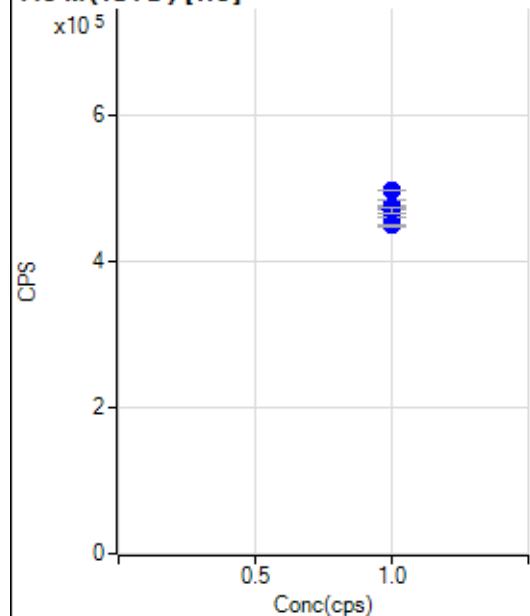
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det | RSD |
|---|--------------------------|-------|------------|-------------|-------|-----|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 11654319.27 |       | A   | 1.0 |
| 2 | <input type="checkbox"/> | 1.000 |            |             |       |     |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 11326847.30 |       | A   | 1.1 |
| 4 | <input type="checkbox"/> | 1.000 |            | 11874899.57 |       | A   | 0.9 |
| 5 | <input type="checkbox"/> | 1.000 |            | 11048494.86 |       | A   | 7.8 |
| 6 | <input type="checkbox"/> | 1.000 |            | 11348971.87 |       | A   | 1.4 |
| 7 | <input type="checkbox"/> | 1.000 |            | 10936951.29 |       | A   | 5.3 |
| 8 | <input type="checkbox"/> | 1.000 |            | 11117407.71 |       | A   | 0.8 |
| 9 | <input type="checkbox"/> | 1.000 |            | 10535219.33 |       | A   | 2.7 |

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

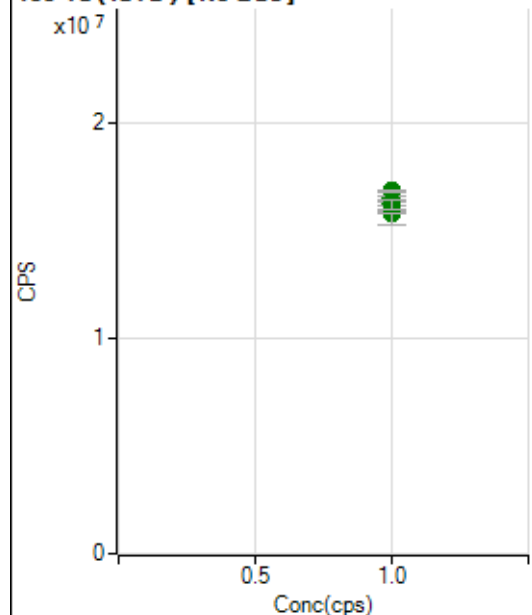
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det | RSD |
|---|--------------------------|-------|------------|------------|-------|-----|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 3014630.54 |       | A   | 3.8 |
| 2 | <input type="checkbox"/> | 1.000 |            |            |       |     |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 2948728.46 |       | A   | 1.5 |
| 4 | <input type="checkbox"/> | 1.000 |            | 3105603.08 |       | A   | 1.2 |
| 5 | <input type="checkbox"/> | 1.000 |            | 2974777.07 |       | A   | 1.0 |
| 6 | <input type="checkbox"/> | 1.000 |            | 2981463.05 |       | A   | 1.2 |
| 7 | <input type="checkbox"/> | 1.000 |            | 2920541.31 |       | A   | 1.1 |
| 8 | <input type="checkbox"/> | 1.000 |            | 2848400.24 |       | A   | 1.1 |
| 9 | <input type="checkbox"/> | 1.000 |            | 2789782.14 |       | A   | 1.5 |

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

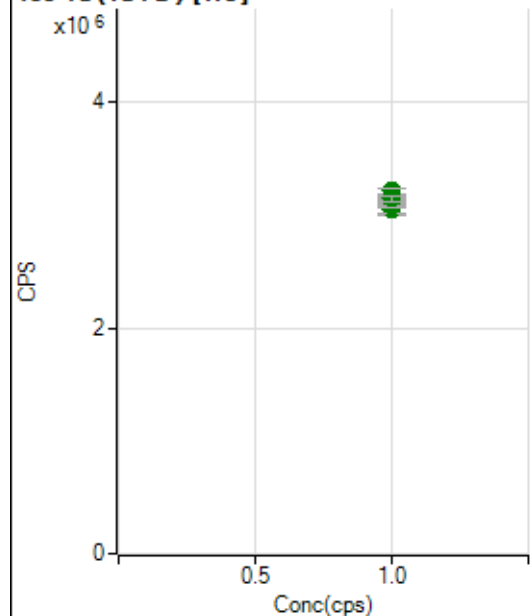
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 12407210.15 |       | A        | 1.0 |
| 2 | <input type="checkbox"/> | 1.000 |            |             |       |          |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 12088781.52 |       | A        | 0.9 |
| 4 | <input type="checkbox"/> | 1.000 |            | 12691449.40 |       | A        | 1.0 |
| 5 | <input type="checkbox"/> | 1.000 |            | 11808911.56 |       | A        | 7.1 |
| 6 | <input type="checkbox"/> | 1.000 |            | 12244681.09 |       | A        | 0.8 |
| 7 | <input type="checkbox"/> | 1.000 |            | 11979058.93 |       | A        | 4.8 |
| 8 | <input type="checkbox"/> | 1.000 |            | 12155870.88 |       | A        | 0.3 |
| 9 | <input type="checkbox"/> | 1.000 |            | 11733884.26 |       | A        | 2.7 |

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

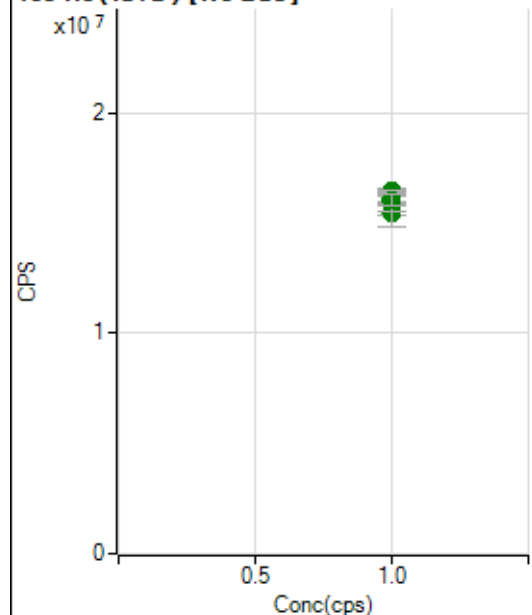
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS       | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-----------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 476079.30 |       | P        | 4.0 |
| 2 | <input type="checkbox"/> | 1.000 |            |           |       |          |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 471307.22 |       | P        | 2.4 |
| 4 | <input type="checkbox"/> | 1.000 |            | 497414.06 |       | P        | 0.2 |
| 5 | <input type="checkbox"/> | 1.000 |            | 475547.54 |       | P        | 1.2 |
| 6 | <input type="checkbox"/> | 1.000 |            | 474610.56 |       | P        | 0.9 |
| 7 | <input type="checkbox"/> | 1.000 |            | 461305.19 |       | P        | 0.5 |
| 8 | <input type="checkbox"/> | 1.000 |            | 449680.95 |       | P        | 0.6 |
| 9 | <input type="checkbox"/> | 1.000 |            | 470812.00 |       | P        | 1.8 |

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

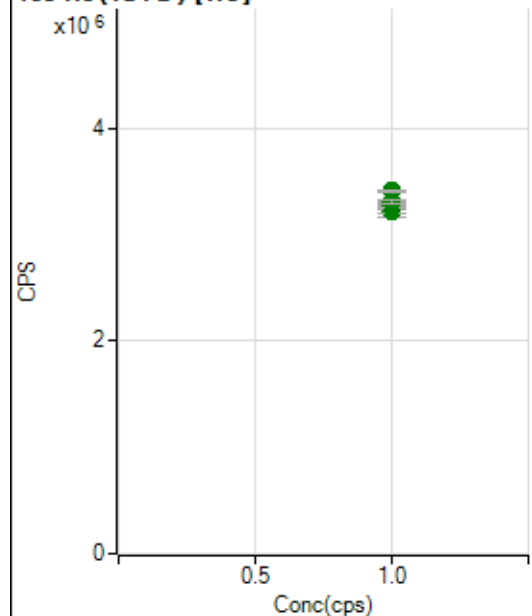
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 16257641.84 |       | A        | 1.0 |
| 2 | <input type="checkbox"/> | 1.000 |            |             |       |          |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 15817274.76 |       | A        | 0.3 |
| 4 | <input type="checkbox"/> | 1.000 |            | 16777947.67 |       | A        | 0.7 |
| 5 | <input type="checkbox"/> | 1.000 |            | 15766316.71 |       | A        | 7.0 |
| 6 | <input type="checkbox"/> | 1.000 |            | 16464376.42 |       | A        | 1.6 |
| 7 | <input type="checkbox"/> | 1.000 |            | 16262672.40 |       | A        | 5.7 |
| 8 | <input type="checkbox"/> | 1.000 |            | 16822968.50 |       | A        | 0.4 |
| 9 | <input type="checkbox"/> | 1.000 |            | 16191683.37 |       | A        | 2.7 |

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

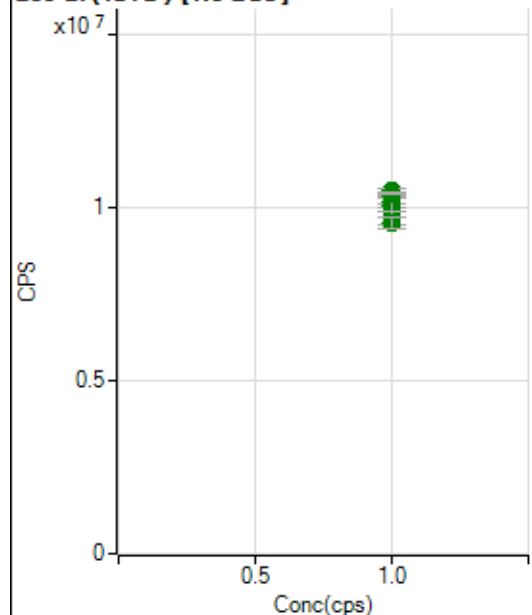
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 3081601.24 |       | A        | 5.0 |
| 2 | <input type="checkbox"/> | 1.000 |            |            |       |          |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 3052526.62 |       | A        | 2.1 |
| 4 | <input type="checkbox"/> | 1.000 |            | 3216212.76 |       | A        | 1.3 |
| 5 | <input type="checkbox"/> | 1.000 |            | 3120654.95 |       | A        | 1.5 |
| 6 | <input type="checkbox"/> | 1.000 |            | 3147389.92 |       | A        | 1.3 |
| 7 | <input type="checkbox"/> | 1.000 |            | 3145259.02 |       | A        | 0.4 |
| 8 | <input type="checkbox"/> | 1.000 |            | 3084607.18 |       | A        | 0.6 |
| 9 | <input type="checkbox"/> | 1.000 |            | 3147335.44 |       | A        | 2.0 |

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

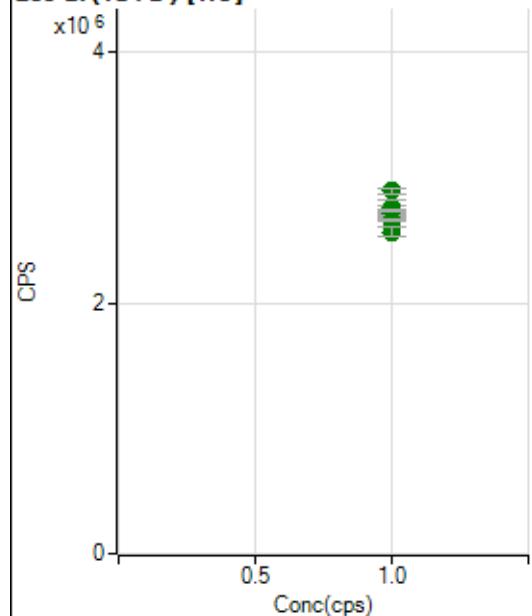
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 15903494.45 |       | A        | 0.9 |
| 2 | <input type="checkbox"/> | 1.000 |            |             |       |          |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 15430085.76 |       | A        | 0.9 |
| 4 | <input type="checkbox"/> | 1.000 |            | 16431527.97 |       | A        | 1.2 |
| 5 | <input type="checkbox"/> | 1.000 |            | 15413760.76 |       | A        | 7.4 |
| 6 | <input type="checkbox"/> | 1.000 |            | 16093342.90 |       | A        | 1.1 |
| 7 | <input type="checkbox"/> | 1.000 |            | 15921247.06 |       | A        | 5.3 |
| 8 | <input type="checkbox"/> | 1.000 |            | 16452725.37 |       | A        | 0.7 |
| 9 | <input type="checkbox"/> | 1.000 |            | 16037580.91 |       | A        | 3.2 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 3237848.84 |       | A        | 4.3 |
| 2 | <input type="checkbox"/> | 1.000 |            |            |       |          |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 3219712.03 |       | A        | 1.1 |
| 4 | <input type="checkbox"/> | 1.000 |            | 3408924.88 |       | A        | 0.4 |
| 5 | <input type="checkbox"/> | 1.000 |            | 3255337.41 |       | A        | 0.7 |
| 6 | <input type="checkbox"/> | 1.000 |            | 3303337.62 |       | A        | 0.7 |
| 7 | <input type="checkbox"/> | 1.000 |            | 3286438.98 |       | A        | 0.4 |
| 8 | <input type="checkbox"/> | 1.000 |            | 3262789.67 |       | A        | 1.1 |
| 9 | <input type="checkbox"/> | 1.000 |            | 3306325.26 |       | A        | 1.5 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 10381113.46 |       | A        | 0.8 |
| 2 | <input type="checkbox"/> | 1.000 |            |             |       |          |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 10049927.28 |       | A        | 1.3 |
| 4 | <input type="checkbox"/> | 1.000 |            | 10477404.36 |       | A        | 1.5 |
| 5 | <input type="checkbox"/> | 1.000 |            | 9895964.44  |       | A        | 8.2 |
| 6 | <input type="checkbox"/> | 1.000 |            | 10351720.96 |       | A        | 1.3 |
| 7 | <input type="checkbox"/> | 1.000 |            | 10152463.74 |       | A        | 5.2 |
| 8 | <input type="checkbox"/> | 1.000 |            | 10410977.42 |       | A        | 0.3 |
| 9 | <input type="checkbox"/> | 1.000 |            | 9542918.12  |       | A        | 3.3 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 2766204.14 |       | A        | 4.2 |
| 2 | <input type="checkbox"/> | 1.000 |            |            |       |          |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 2713015.81 |       | A        | 2.2 |
| 4 | <input type="checkbox"/> | 1.000 |            | 2892489.99 |       | A        | 1.7 |
| 5 | <input type="checkbox"/> | 1.000 |            | 2716764.72 |       | A        | 0.9 |
| 6 | <input type="checkbox"/> | 1.000 |            | 2748310.10 |       | A        | 1.9 |
| 7 | <input type="checkbox"/> | 1.000 |            | 2736883.22 |       | A        | 0.5 |
| 8 | <input type="checkbox"/> | 1.000 |            | 2657997.98 |       | A        | 1.0 |
| 9 | <input type="checkbox"/> | 1.000 |            | 2563309.56 |       | A        | 2.8 |

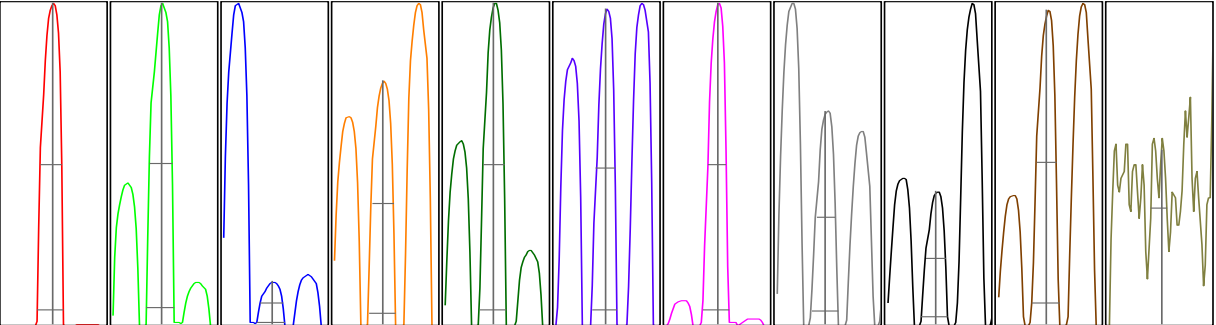
US EPA Tune Check Sample Report

Batch Folder D:\P8072318MS.b  
Report Comment  
Instrument Name G8403A JP17141814

| [No Gas] |                 |                  |                    |                |
|----------|-----------------|------------------|--------------------|----------------|
| Mass     | Count<br>(Mean) | RSD%<br>(Actual) | RSD%<br>(Required) | RSD%<br>(Flag) |
| 9        | 6942            | 0.87             | 5.00               |                |
| 24       | 110522          | 1.18             | 5.00               |                |
| 25       | 14864           | 1.07             | 5.00               |                |
| 26       | 17166           | 1.05             | 5.00               |                |
| 59       | 67559           | 1.03             | 5.00               |                |
| 113      | 9737            | 1.97             | 5.00               |                |
| 115      | 127949          | 3.67             | 5.00               |                |
| 206      | 28094           | 0.36             | 5.00               |                |
| 207      | 25494           | 1.02             | 5.00               |                |
| 208      | 60965           | 1.40             | 5.00               |                |
| 220      | 1               | 23.51            |                    |                |

| Mass | Replicate 1<br>Count | Replicate 2<br>Count | Replicate 3<br>Count | Replicate 4<br>Count | Replicate 5<br>Count |
|------|----------------------|----------------------|----------------------|----------------------|----------------------|
| 9    | 7013                 | 6964                 | 6846                 | 6951                 | 6937                 |
| 24   | 111524               | 111125               | 108260               | 111092               | 110610               |
| 25   | 15023                | 14857                | 14611                | 14968                | 14861                |
| 26   | 17369                | 17153                | 16897                | 17288                | 17126                |
| 59   | 67203                | 68282                | 66964                | 68351                | 66995                |
| 113  | 9808                 | 10004                | 9659                 | 9734                 | 9481                 |
| 115  | 130360               | 133986               | 128181               | 125637               | 121581               |
| 206  | 28198                | 28052                | 28057                | 27965                | 28196                |
| 207  | 25676                | 25214                | 25590                | 25224                | 25766                |
| 208  | 61573                | 59533                | 61585                | 60866                | 61267                |
| 220  | 1                    | 1                    | 1                    | 1                    | 1                    |

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    | 11966          | 9.00             | 8.9 - 9.1          |                | 0.739                | 0.900                  |                        |
| 24   | 182005         | 23.95            | 23.9 - 24.1        |                | 0.785                | 0.900                  |                        |
| 25   | 24664          | 24.95            | 24.9 - 25.1        |                | 0.787                | 0.900                  |                        |
| 26   | 28801          | 25.95            | 25.9 - 26.1        |                | 0.783                | 0.900                  |                        |
| 59   | 118550         | 58.95            | 58.9 - 59.1        |                | 0.772                | 0.900                  |                        |
| 113  | 18476          | 113.00           | 112.9 - 113.1      |                | 0.725                | 0.900                  |                        |
| 115  | 240246         | 115.05           | 114.9 - 115.1      |                | 0.760                | 0.900                  |                        |
| 206  | 50853          | 205.95           | 205.9 - 206.1      |                | 0.776                | 0.900                  |                        |
| 207  | 46295          | 206.95           | 206.9 - 207.1      |                | 0.745                | 0.900                  |                        |
| 208  | 111580         | 207.95           | 207.9 - 208.1      |                | 0.775                | 0.900                  |                        |
| 220  | 1              | 220.10           | -                  |                |                      |                        |                        |

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

Tune Parameters

## Plasma Paramters ##

| ParameterName | Value | Unit | ParameterName    | Value | Unit  | ParameterName | Value | Unit |
|---------------|-------|------|------------------|-------|-------|---------------|-------|------|
| Plasma Mode   |       | HMI  | Aerosol Dilution |       | HMI-8 |               |       |      |

## Lenses Parameters ##

| ParameterName | Value  | Unit | ParameterName | Value | Unit | ParameterName | Value | Unit |
|---------------|--------|------|---------------|-------|------|---------------|-------|------|
| Extract 1     | 0.0    | V    | Omega Lens    | 9.3   | V    | Deflect       | 13.4  | V    |
| Extract 2     | -220.0 | V    | Cell Entrance | -30   | V    | Plate Bias    | -35   | V    |
| Omega Bias    | -95    | 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       | 190   | V    |                       |       |      |

[He]

| Mass | Count<br>(Mean) | RSD%<br>(Actual) | RSD%<br>(Required) |
|------|-----------------|------------------|--------------------|
| 59   | 8047            | 1.94             |                    |
| 89   | 7869            | 1.60             |                    |
| 205  | 12777           | 2.02             |                    |

| Mass | Replicate 1<br>Count | Replicate 2<br>Count | Replicate 3<br>Count | Replicate 4<br>Count | Replicate 5<br>Count |
|------|----------------------|----------------------|----------------------|----------------------|----------------------|
| 59   | 7823                 | 7991                 | 8134                 | 8050                 | 8238                 |
| 89   | 7734                 | 7762                 | 7932                 | 7874                 | 8041                 |
| 205  | 12406                | 12643                | 12908                | 12857                | 13073                |

Integration Time [sec] = 0.1

Tune Parameters

## Plasma Paramters ##

| ParameterName | Value | Unit | ParameterName    | Value | Unit  | ParameterName | Value | Unit |
|---------------|-------|------|------------------|-------|-------|---------------|-------|------|
| Plasma Mode   |       | HMI  | Aerosol Dilution |       | HMI-8 |               |       |      |

## Lenses Parameters ##

| ParameterName | Value  | Unit | ParameterName | Value | Unit | ParameterName | Value | Unit |
|---------------|--------|------|---------------|-------|------|---------------|-------|------|
| Extract 1     | 0.0    | V    | Omega Lens    | 9.3   | V    | Deflect       | 2.0   | V    |
| Extract 2     | -220.0 | 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       | 5.0   | mL/min | OctP RF       | 200   | V    |                       |       |      |