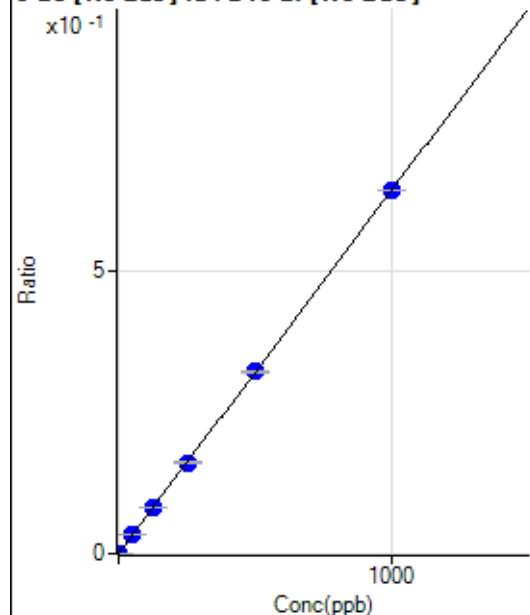


Batch Folder: D:\ICP-MS Data\P711012019 MS.b\  
Analysis File: P711012019 MS.batch.bin  
DA Date-Time: 2019-11-01 23:47:51  
Calibration Title:  
Calibration Method: External Calibration  
VIS Interpolation Fit:

| Level | Standard Data File | Sample Name | Acq. Date-Time      |
|-------|--------------------|-------------|---------------------|
| 1     | 003CALB.d          | S00         | 2019-11-01 12:34:45 |
| 2     | 004CALS.d          | S01         | 2019-11-01 12:38:19 |
| 3     | 005CALS.d          | S02         | 2019-11-01 12:42:57 |
| 4     | 006CALS.d          | S03         | 2019-11-01 12:46:51 |
| 5     | 007CALS.d          | S04         | 2019-11-01 12:50:53 |
| 6     | 008CALS.d          | S05         | 2019-11-01 12:54:41 |
| 7     | 009CALS.d          | S06         | 2019-11-01 12:58:28 |
| 8     | 010CALS.d          | S07         | 2019-11-01 13:02:12 |
| 9     | 011CALS.d          | S08         | 2019-11-01 13:05:56 |

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

|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 51.85      | 0.0000 | P    | 6.5  |
| 2 | <input type="checkbox"/> | 0.100    | 0.102      | 403.72     | 0.0001 | P    | 6.4  |
| 3 | <input type="checkbox"/> | 1.000    | 1.029      | 3606.07    | 0.0007 | P    | 2.8  |
| 4 | <input type="checkbox"/> | 50.000   | 50.767     | 176948.46  | 0.0325 | P    | 0.6  |
| 5 | <input type="checkbox"/> | 125.000  | 126.927    | 439440.84  | 0.0813 | P    | 0.9  |
| 6 | <input type="checkbox"/> | 250.000  | 251.483    | 856972.02  | 0.1610 | P    | 0.2  |
| 7 | <input type="checkbox"/> | 500.000  | 500.852    | 1671816.79 | 0.3207 | P    | 0.3  |
| 8 | <input type="checkbox"/> | 1000.000 | 998.924    | 3286831.27 | 0.6397 | P    | 0.1  |
| 9 | <input type="checkbox"/> |          |            | 422.24     | 0.0001 | P    | 21.1 |

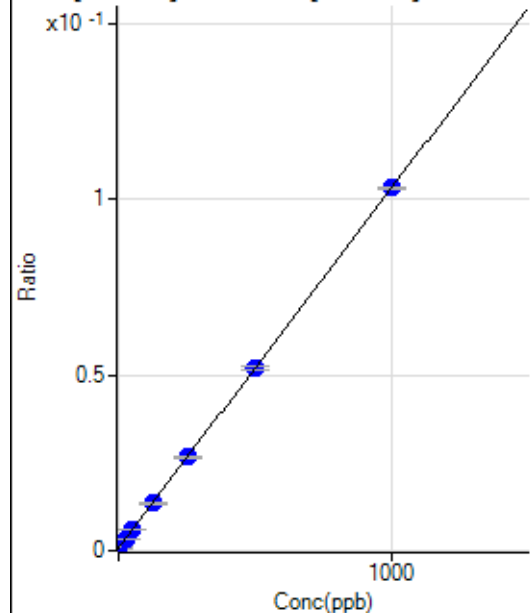
$$y = 6.4035\text{E-}004 * x + 9.7833\text{E-}006$$

$$R = 1.0000$$

$$DL = 0.002993$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS       | Ratio  | Det. | RSD |
|---|--------------------------|----------|------------|-----------|--------|------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 4025.70   | 0.0008 | P    | 2.5 |
| 2 | <input type="checkbox"/> | 2.500    | 1.752      | 5028.85   | 0.0009 | P    | 5.3 |
| 3 | <input type="checkbox"/> | 25.000   | 24.680     | 17733.22  | 0.0033 | P    | 1.2 |
| 4 | <input type="checkbox"/> | 50.000   | 51.567     | 32897.83  | 0.0060 | P    | 3.2 |
| 5 | <input type="checkbox"/> | 125.000  | 123.878    | 72758.88  | 0.0135 | P    | 1.0 |
| 6 | <input type="checkbox"/> | 250.000  | 251.625    | 141293.79 | 0.0266 | P    | 2.0 |
| 7 | <input type="checkbox"/> | 500.000  | 499.138    | 270684.13 | 0.0519 | P    | 1.7 |
| 8 | <input type="checkbox"/> | 1000.000 | 1000.096   | 530718.83 | 0.1033 | P    | 0.6 |
| 9 | <input type="checkbox"/> |          |            | 25536.32  | 0.0052 | P    | 6.7 |

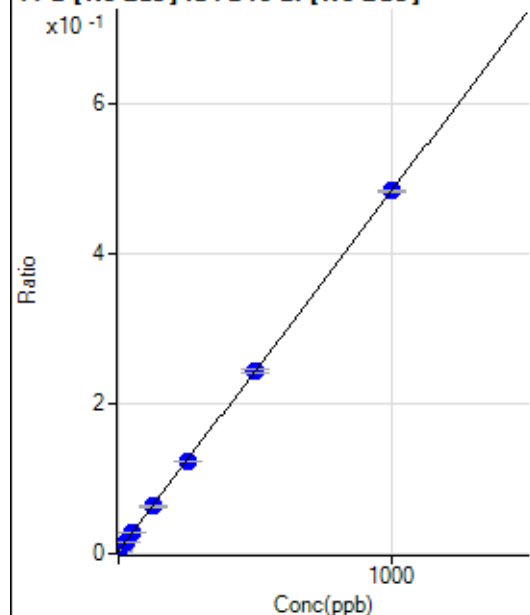
$$y = 1.0252\text{E-}004 * x + 7.5936\text{E-}004$$

$$R = 1.0000$$

$$DL = 0.5504$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 18347.99   | 0.0035 | P   | 3.2 |
| 2 | <input type="checkbox"/> | 2.500    | 1.870      | 23352.07   | 0.0044 | P   | 0.7 |
| 3 | <input type="checkbox"/> | 25.000   | 24.252     | 81559.39   | 0.0151 | P   | 1.0 |
| 4 | <input type="checkbox"/> | 50.000   | 52.270     | 155672.14  | 0.0286 | P   | 0.6 |
| 5 | <input type="checkbox"/> | 125.000  | 124.735    | 343102.66  | 0.0635 | P   | 2.5 |
| 6 | <input type="checkbox"/> | 250.000  | 248.841    | 655450.24  | 0.1232 | P   | 1.3 |
| 7 | <input type="checkbox"/> | 500.000  | 499.770    | 1271358.11 | 0.2439 | P   | 1.5 |
| 8 | <input type="checkbox"/> | 1000.000 | 1000.344   | 2490810.75 | 0.4847 | P   | 0.6 |
| 9 | <input type="checkbox"/> |          |            | 117242.19  | 0.0239 | P   | 5.4 |

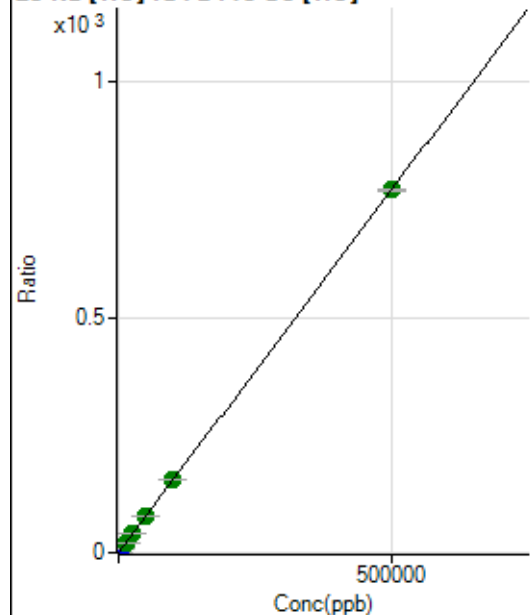
$$y = 4.8111E-004 * x + 0.0035$$

$$R = 1.0000$$

$$DL = 0.6872$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio    | Det | RSD |
|---|--------------------------|-----------|------------|-------------|----------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 9041.99     | 0.0247   | P   | 2.0 |
| 2 | <input type="checkbox"/> | 50.000    | 49.929     | 38012.97    | 0.1017   | P   | 3.5 |
| 3 | <input type="checkbox"/> | 500.000   | 527.666    | 305383.64   | 0.8384   | P   | 0.2 |
| 4 | <input type="checkbox"/> | 5000.000  | 5125.891   | 2906288.32  | 7.9297   | P   | 0.7 |
| 5 | <input type="checkbox"/> | 12500.000 | 12722.342  | 7092869.86  | 19.6447  | A   | 0.6 |
| 6 | <input type="checkbox"/> | 25000.000 | 25498.810  | 14159891.29 | 39.3481  | A   | 0.5 |
| 7 | <input type="checkbox"/> | 50000.000 | 49933.683  | 28161965.21 | 77.0307  | A   | 0.8 |
| 8 | <input type="checkbox"/> | 100000.00 | 99926.564  | 57517930.45 | 154.1281 | A   | 0.9 |
| 9 | <input type="checkbox"/> | 500000.00 | 499989.53  | 295294789.9 | 771.0920 | A   | 0.4 |

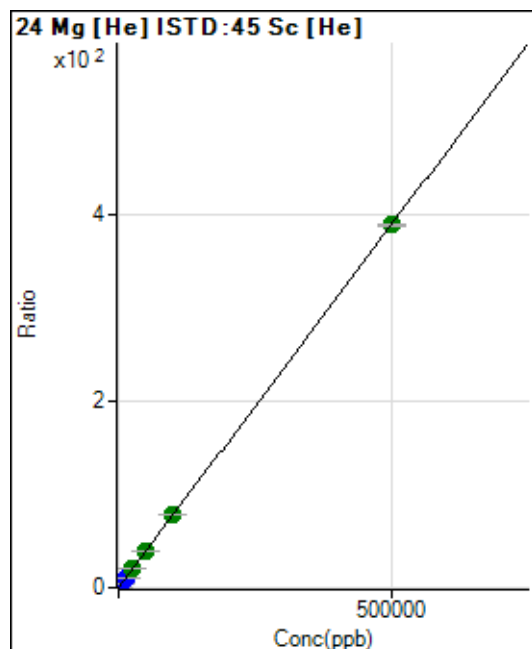
$$y = 0.0015 * x + 0.0247$$

$$R = 1.0000$$

$$DL = 0.9828$$

Weight: &lt;None&gt;

Min Conc: 0



|   | R <sub>ct</sub>          | Conc.     | Calc Conc. | CPS         | Ratio    | Det. | RSD  |
|---|--------------------------|-----------|------------|-------------|----------|------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 516.70      | 0.0014   | P    | 10.1 |
| 2 | <input type="checkbox"/> | 50.000    | 55.161     | 16551.37    | 0.0443   | P    | 3.2  |
| 3 | <input type="checkbox"/> | 500.000   | 561.169    | 159309.86   | 0.4374   | P    | 1.2  |
| 4 | <input type="checkbox"/> | 5000.000  | 5229.954   | 1489915.12  | 4.0650   | P    | 0.1  |
| 5 | <input type="checkbox"/> | 12500.000 | 13019.007  | 3652810.67  | 10.1169  | P    | 0.6  |
| 6 | <input type="checkbox"/> | 25000.000 | 25966.621  | 7260881.15  | 20.1769  | A    | 0.9  |
| 7 | <input type="checkbox"/> | 50000.000 | 50519.281  | 14350591.81 | 39.2537  | A    | 1.1  |
| 8 | <input type="checkbox"/> | 100000.00 | 100860.73  | 29245877.04 | 78.3679  | A    | 0.8  |
| 9 | <input type="checkbox"/> | 500000.00 | 499712.25  | 148690293.6 | 388.2663 | A    | 0.5  |

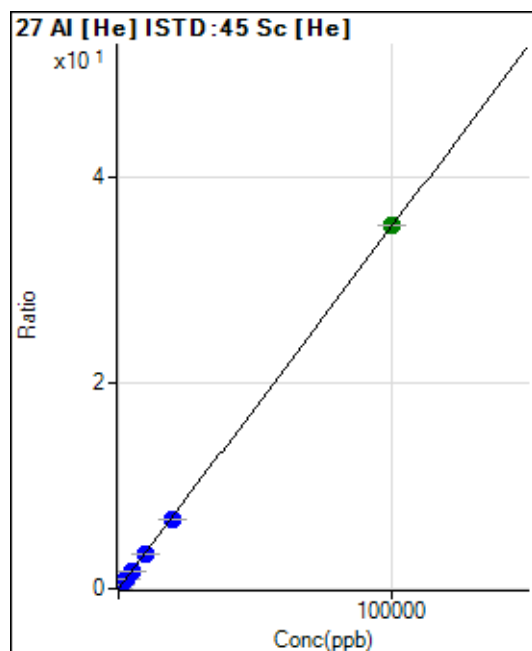
$$y = 7.7698\text{E-}004 * x + 0.0014$$

$$R = 1.0000$$

$$DL = 0.5526$$

Weight: <None>

Min Conc: 0



|   | R <sub>ct</sub>          | Conc.     | Calc Conc. | CPS         | Ratio   | Det. | RSD  |
|---|--------------------------|-----------|------------|-------------|---------|------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 66.67       | 0.0002  | P    | 57.7 |
| 2 | <input type="checkbox"/> | 2.000     | 1.931      | 322.24      | 0.0009  | P    | 17.3 |
| 3 | <input type="checkbox"/> | 20.000    | 21.688     | 2847.60     | 0.0078  | P    | 4.8  |
| 4 | <input type="checkbox"/> | 1000.000  | 980.089    | 126525.83   | 0.3452  | P    | 0.9  |
| 5 | <input type="checkbox"/> | 2500.000  | 2426.672   | 308520.24   | 0.8545  | P    | 0.5  |
| 6 | <input type="checkbox"/> | 5000.000  | 4864.709   | 616365.66   | 1.7128  | P    | 0.7  |
| 7 | <input type="checkbox"/> | 10000.000 | 9462.885   | 1217985.29  | 3.3316  | P    | 0.8  |
| 8 | <input type="checkbox"/> | 20000.000 | 19177.677  | 2519615.51  | 6.7516  | P    | 0.9  |
| 9 | <input type="checkbox"/> | 100000.00 | 100226.97  | 13512697.01 | 35.2847 | A    | 0.0  |

$$y = 3.5205\text{E-}004 * x + 1.8221\text{E-}004$$

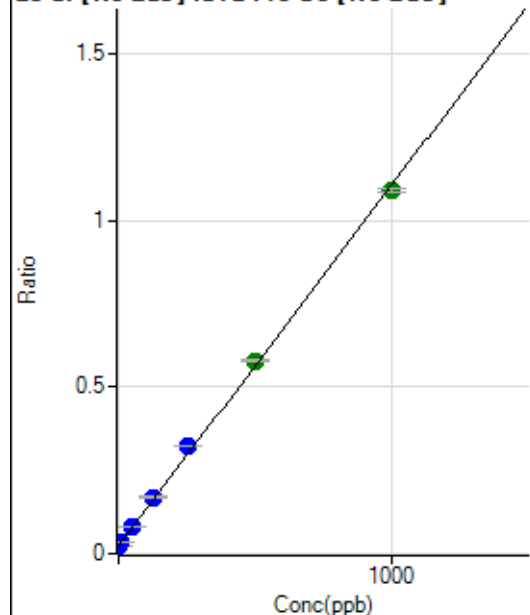
$$R = 1.0000$$

$$DL = 0.8966$$

Weight: <None>

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det<br>. | RSD |
|---|--------------------------|----------|------------|-------------|--------|----------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 209138.69   | 0.0222 | P        | 0.5 |
| 2 | <input type="checkbox"/> | 1.000    | 1.388      | 222817.56   | 0.0237 | P        | 0.9 |
| 3 | <input type="checkbox"/> | 10.000   | 9.379      | 303953.31   | 0.0323 | P        | 0.7 |
| 4 | <input type="checkbox"/> | 50.000   | 52.726     | 745276.54   | 0.0794 | P        | 1.8 |
| 5 | <input type="checkbox"/> | 125.000  | 136.240    | 1574592.46  | 0.1700 | P        | 1.8 |
| 6 | <input type="checkbox"/> | 250.000  | 277.398    | 2956050.44  | 0.3231 | P        | 1.1 |
| 7 | <input type="checkbox"/> | 500.000  | 514.379    | 5328552.94  | 0.5802 | A        | 0.9 |
| 8 | <input type="checkbox"/> | 1000.000 | 984.426    | 10080251.61 | 1.0901 | A        | 1.1 |
| 9 | <input type="checkbox"/> |          |            | 1588978.35  | 0.1747 | P        | 1.6 |

$$y = 0.0011 * x + 0.0222$$

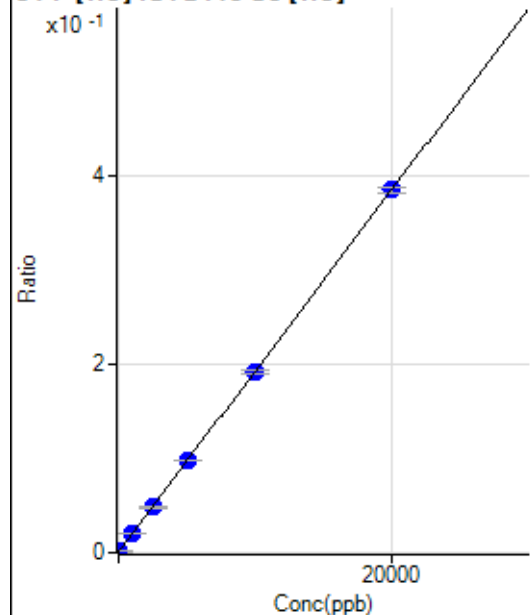
$$R = 0.9994$$

$$DL = 0.332$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS       | Ratio  | Det<br>. | RSD  |
|---|--------------------------|-----------|------------|-----------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000     | -23.549    | 80.56     | 0.0002 | P        | 66.4 |
| 2 | <input type="checkbox"/> | 0.000     | -14.870    | 144.45    | 0.0004 | P        | 44.1 |
| 3 | <input type="checkbox"/> | 0.000     | 38.418     | 513.92    | 0.0014 | P        | 9.4  |
| 4 | <input type="checkbox"/> | 1000.000  | 1023.023   | 7452.17   | 0.0203 | P        | 1.3  |
| 5 | <input type="checkbox"/> | 2500.000  | 2490.003   | 17519.24  | 0.0485 | P        | 3.0  |
| 6 | <input type="checkbox"/> | 5000.000  | 5048.177   | 35153.72  | 0.0977 | P        | 1.0  |
| 7 | <input type="checkbox"/> | 10000.000 | 9951.930   | 70160.13  | 0.1919 | P        | 1.9  |
| 8 | <input type="checkbox"/> | 20000.000 | 20012.089  | 143772.97 | 0.3853 | P        | 1.5  |
| 9 | <input type="checkbox"/> |           |            | 141.67    | 0.0004 | P        | 12.2 |

$$y = 1.9218E-005 * x + 6.7224E-004$$

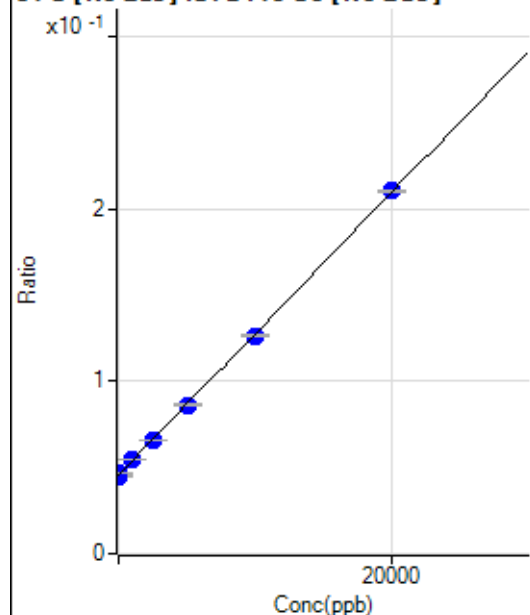
$$R = 1.0000$$

$$DL = 23.33$$

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     | -168.690   | 418040.48  | 0.0443 | P    | 0.6 |
| 2 | <input type="checkbox"/> | 0.000     | -1.447     | 429971.89  | 0.0457 | P    | 0.8 |
| 3 | <input type="checkbox"/> | 0.000     | 170.137    | 442546.50  | 0.0471 | P    | 0.2 |
| 4 | <input type="checkbox"/> | 1000.000  | 1099.989   | 513755.94  | 0.0547 | P    | 0.8 |
| 5 | <input type="checkbox"/> | 2500.000  | 2459.024   | 610038.19  | 0.0658 | P    | 0.4 |
| 6 | <input type="checkbox"/> | 5000.000  | 4923.904   | 787124.88  | 0.0860 | P    | 0.9 |
| 7 | <input type="checkbox"/> | 10000.000 | 9850.118   | 1160720.60 | 0.1264 | P    | 0.3 |
| 8 | <input type="checkbox"/> | 20000.000 | 20094.087  | 1944528.04 | 0.2103 | P    | 0.6 |
| 9 | <input type="checkbox"/> |           |            | 392480.78  | 0.0431 | P    | 1.4 |

$$y = 8.1904\text{E-}006 * x + 0.0457$$

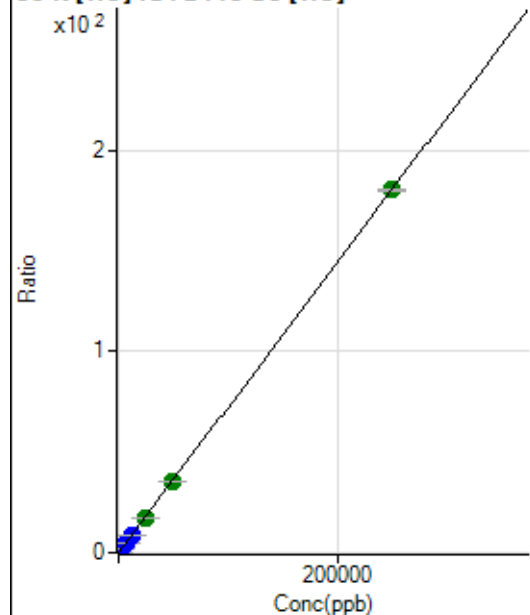
$$R = 0.9998$$

$$DL = 83.65$$

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      | 19204.75    | 0.0524   | P    | 2.0 |
| 2 | <input type="checkbox"/> | 50.000    | 49.367     | 32873.32    | 0.0879   | P    | 3.4 |
| 3 | <input type="checkbox"/> | 500.000   | 518.661    | 155020.70   | 0.4256   | P    | 1.0 |
| 4 | <input type="checkbox"/> | 2500.000  | 2471.783   | 671008.79   | 1.8308   | P    | 0.9 |
| 5 | <input type="checkbox"/> | 6250.000  | 6195.167   | 1628308.07  | 4.5098   | P    | 0.4 |
| 6 | <input type="checkbox"/> | 12500.000 | 12371.799  | 3222132.95  | 8.9538   | P    | 0.7 |
| 7 | <input type="checkbox"/> | 25000.000 | 24266.103  | 6402429.96  | 17.5116  | A    | 0.4 |
| 8 | <input type="checkbox"/> | 50000.000 | 48822.845  | 13128947.00 | 35.1800  | A    | 0.4 |
| 9 | <input type="checkbox"/> | 250000.00 | 250316.84  | 68991516.12 | 180.1530 | A    | 0.5 |

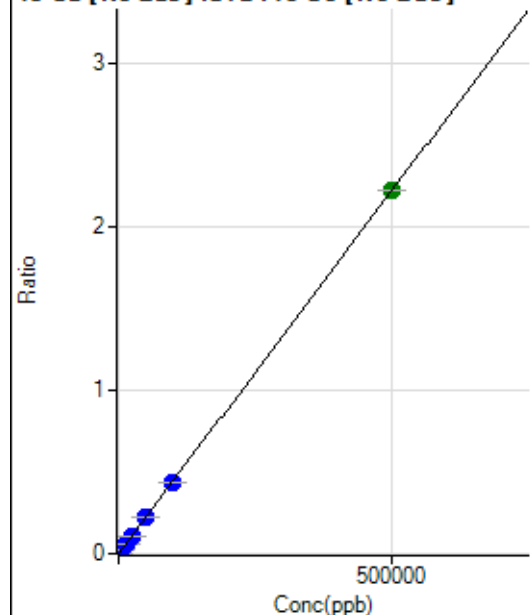
$$y = 7.1949\text{E-}004 * x + 0.0524$$

$$R = 1.0000$$

$$DL = 4.45$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>ct</sub>          | Conc.     | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|-----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 202.79      | 0.0000 | P    | 16.3 |
| 2 | <input type="checkbox"/> | 50.000    | 53.342     | 2430.86     | 0.0003 | P    | 4.0  |
| 3 | <input type="checkbox"/> | 500.000   | 523.182    | 22028.19    | 0.0023 | P    | 0.8  |
| 4 | <input type="checkbox"/> | 5000.000  | 4983.644   | 207961.08   | 0.0221 | P    | 1.9  |
| 5 | <input type="checkbox"/> | 12500.000 | 12523.654  | 515331.49   | 0.0556 | P    | 1.1  |
| 6 | <input type="checkbox"/> | 25000.000 | 24909.340  | 1012040.74  | 0.1106 | P    | 1.2  |
| 7 | <input type="checkbox"/> | 50000.000 | 49527.202  | 2019813.76  | 0.2199 | P    | 0.3  |
| 8 | <input type="checkbox"/> | 100000.00 | 98677.659  | 4051676.61  | 0.4382 | P    | 0.6  |
| 9 | <input type="checkbox"/> | 500000.00 | 500315.83  | 20210411.04 | 2.2215 | A    | 0.1  |

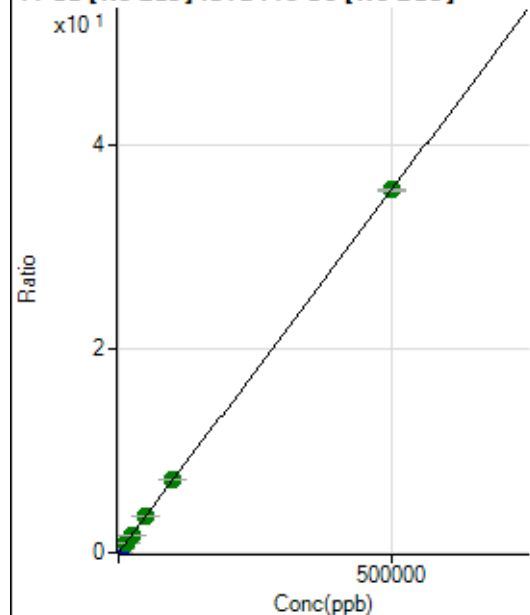
$$y = 4.4401\text{E-}006 * x + 2.1495\text{E-}005$$

$$R = 1.0000$$

$$DL = 2.361$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>ct</sub>          | Conc.     | Calc Conc. | CPS         | Ratio   | Det. | RSD |
|---|--------------------------|-----------|------------|-------------|---------|------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 11330.30    | 0.0012  | P    | 1.4 |
| 2 | <input type="checkbox"/> | 50.000    | 52.006     | 46140.49    | 0.0049  | P    | 0.9 |
| 3 | <input type="checkbox"/> | 500.000   | 512.265    | 353938.00   | 0.0377  | P    | 0.3 |
| 4 | <input type="checkbox"/> | 5000.000  | 5042.388   | 3381836.88  | 0.3602  | P    | 0.5 |
| 5 | <input type="checkbox"/> | 12500.000 | 12533.311  | 8277283.17  | 0.8935  | A    | 0.5 |
| 6 | <input type="checkbox"/> | 25000.000 | 24914.755  | 16238331.09 | 1.7749  | A    | 0.6 |
| 7 | <input type="checkbox"/> | 50000.000 | 49717.664  | 32517834.75 | 3.5407  | A    | 0.1 |
| 8 | <input type="checkbox"/> | 100000.00 | 99832.245  | 65731432.03 | 7.1084  | A    | 0.2 |
| 9 | <input type="checkbox"/> | 500000.00 | 500064.77  | 323878196.1 | 35.6016 | A    | 0.6 |

$$y = 7.1191\text{E-}005 * x + 0.0012$$

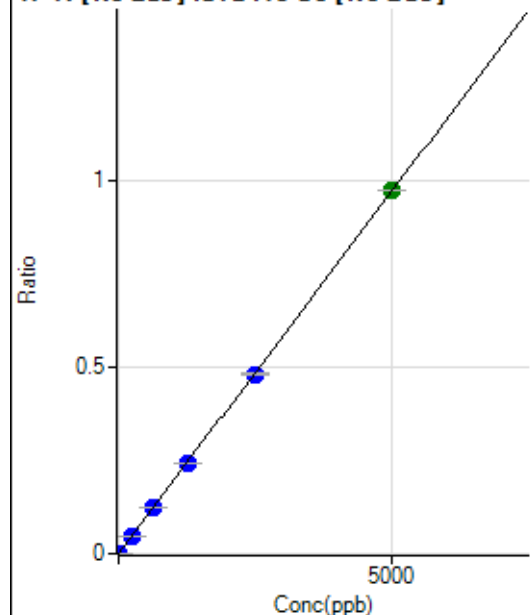
$$R = 1.0000$$

$$DL = 0.7224$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 119.45     | 0.0000 | P    | 14.6 |
| 2 | <input type="checkbox"/> | 0.500    | 0.522      | 1072.30    | 0.0001 | P    | 5.5  |
| 3 | <input type="checkbox"/> | 5.000    | 5.409      | 9973.18    | 0.0011 | P    | 1.1  |
| 4 | <input type="checkbox"/> | 250.000  | 247.254    | 450296.35  | 0.0480 | P    | 0.5  |
| 5 | <input type="checkbox"/> | 625.000  | 625.796    | 1124311.13 | 0.1214 | P    | 0.3  |
| 6 | <input type="checkbox"/> | 1250.000 | 1244.378   | 2207664.18 | 0.2413 | P    | 0.4  |
| 7 | <input type="checkbox"/> | 2500.000 | 2481.508   | 4419315.85 | 0.4812 | P    | 0.2  |
| 8 | <input type="checkbox"/> | 5000.000 | 5010.689   | 8984594.39 | 0.9716 | A    | 0.1  |
| 9 | <input type="checkbox"/> |          |            | 3906.24    | 0.0004 | P    | 4.0  |

$$y = 1.9391\text{E-}004 * x + 1.2666\text{E-}005$$

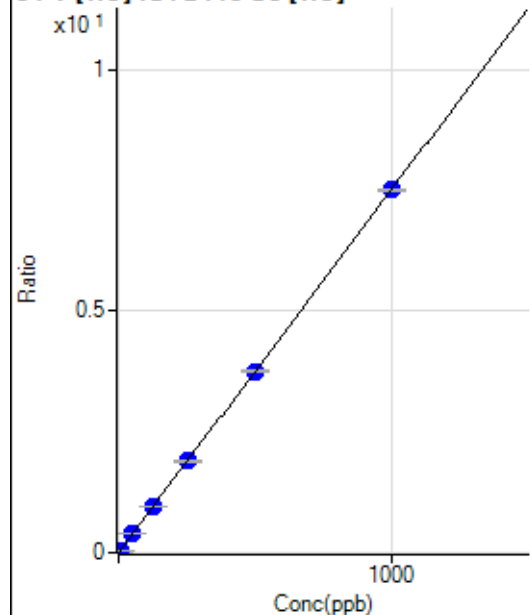
$$R = 1.0000$$

$$DL = 0.02859$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 14.44      | 0.0000 | P    | 13.9 |
| 2 | <input type="checkbox"/> | 0.500    | 0.558      | 1582.33    | 0.0042 | P    | 3.9  |
| 3 | <input type="checkbox"/> | 5.000    | 5.484      | 15025.63   | 0.0413 | P    | 1.3  |
| 4 | <input type="checkbox"/> | 50.000   | 50.958     | 140376.93  | 0.3830 | P    | 0.7  |
| 5 | <input type="checkbox"/> | 125.000  | 125.733    | 341199.85  | 0.9450 | P    | 0.3  |
| 6 | <input type="checkbox"/> | 250.000  | 251.864    | 681182.29  | 1.8929 | P    | 0.9  |
| 7 | <input type="checkbox"/> | 500.000  | 499.939    | 1373612.46 | 3.7573 | P    | 1.0  |
| 8 | <input type="checkbox"/> | 1000.000 | 999.422    | 2803071.35 | 7.5111 | P    | 0.5  |
| 9 | <input type="checkbox"/> |          |            | 795.59     | 0.0021 | P    | 3.1  |

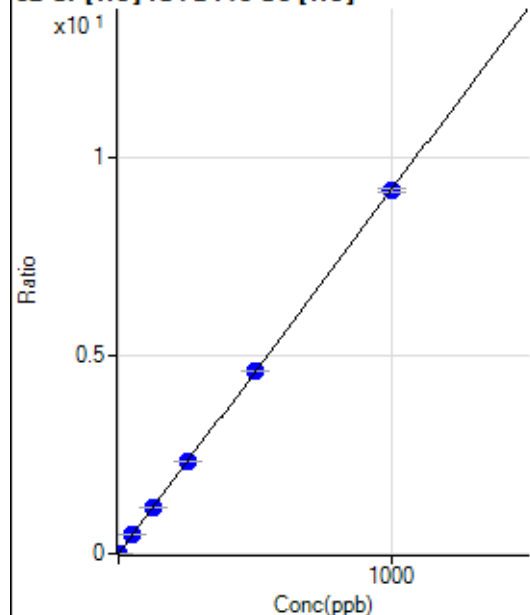
$$y = 0.0075 * x + 3.9432\text{E-}005$$

$$R = 1.0000$$

$$DL = 0.00218$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD |
|---|--------------------------|----------|------------|------------|--------|------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 1393.43    | 0.0038 | P    | 5.3 |
| 2 | <input type="checkbox"/> | 0.200    | 0.211      | 2146.86    | 0.0057 | P    | 4.2 |
| 3 | <input type="checkbox"/> | 2.000    | 2.170      | 8648.23    | 0.0237 | P    | 0.7 |
| 4 | <input type="checkbox"/> | 50.000   | 51.636     | 175327.60  | 0.4784 | P    | 0.9 |
| 5 | <input type="checkbox"/> | 125.000  | 128.465    | 427677.22  | 1.1845 | P    | 0.4 |
| 6 | <input type="checkbox"/> | 250.000  | 255.235    | 845542.55  | 2.3496 | P    | 0.6 |
| 7 | <input type="checkbox"/> | 500.000  | 502.513    | 1689886.54 | 4.6223 | P    | 0.8 |
| 8 | <input type="checkbox"/> | 1000.000 | 996.919    | 3420700.09 | 9.1663 | P    | 1.0 |
| 9 | <input type="checkbox"/> |          |            | 130945.05  | 0.3419 | P    | 0.7 |

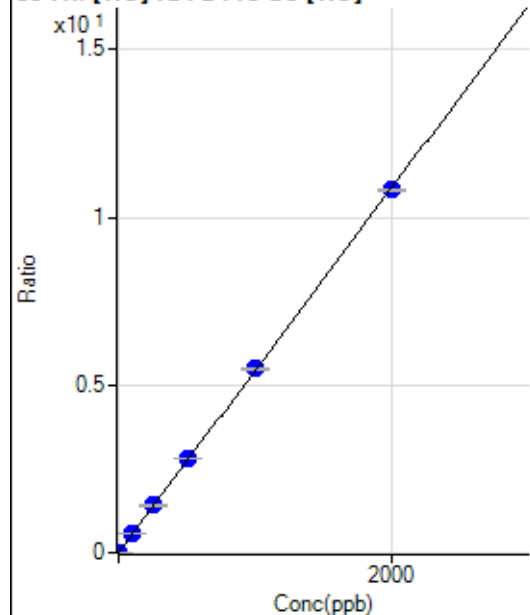
$$y = 0.0092 * x + 0.0038$$

$$R = 1.0000$$

$$DL = 0.06586$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS        | Ratio   | Det. | RSD |
|---|--------------------------|----------|------------|------------|---------|------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 314.45     | 0.0009  | P    | 9.7 |
| 2 | <input type="checkbox"/> | 0.100    | 0.105      | 533.35     | 0.0014  | P    | 7.2 |
| 3 | <input type="checkbox"/> | 1.000    | 1.141      | 2571.38    | 0.0071  | P    | 2.0 |
| 4 | <input type="checkbox"/> | 100.000  | 104.090    | 207573.92  | 0.5663  | P    | 0.8 |
| 5 | <input type="checkbox"/> | 250.000  | 258.797    | 507951.96  | 1.4068  | P    | 0.4 |
| 6 | <input type="checkbox"/> | 500.000  | 514.173    | 1005530.89 | 2.7942  | P    | 0.7 |
| 7 | <input type="checkbox"/> | 1000.000 | 1009.897   | 2006092.26 | 5.4873  | P    | 1.0 |
| 8 | <input type="checkbox"/> | 2000.000 | 1990.204   | 4035334.11 | 10.8131 | P    | 0.5 |
| 9 | <input type="checkbox"/> |          |            | 17116.77   | 0.0447  | P    | 0.7 |

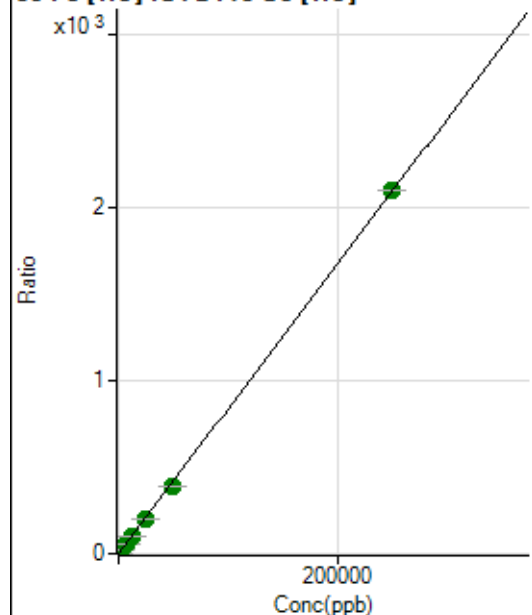
$$y = 0.0054 * x + 8.5805E-004$$

$$R = 0.9999$$

$$DL = 0.04608$$

Weight: &lt;None&gt;

Min Conc: 0

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

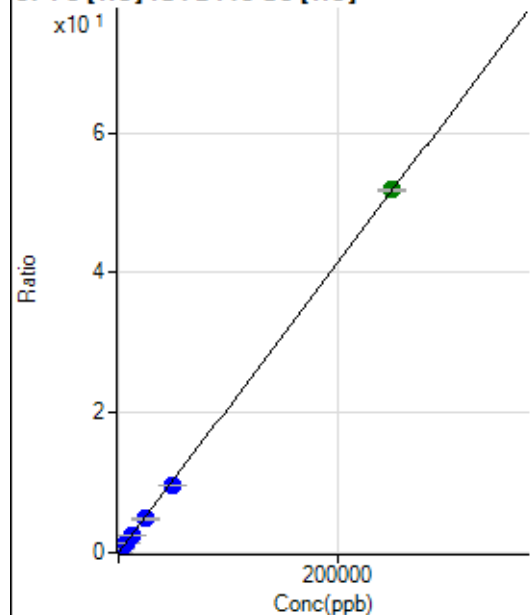
$$y = 0.0084 * x + 0.0138$$

$$R = 0.9999$$

$$DL = 0.09365$$

Weight: &lt;None&gt;

Min Conc: 0

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

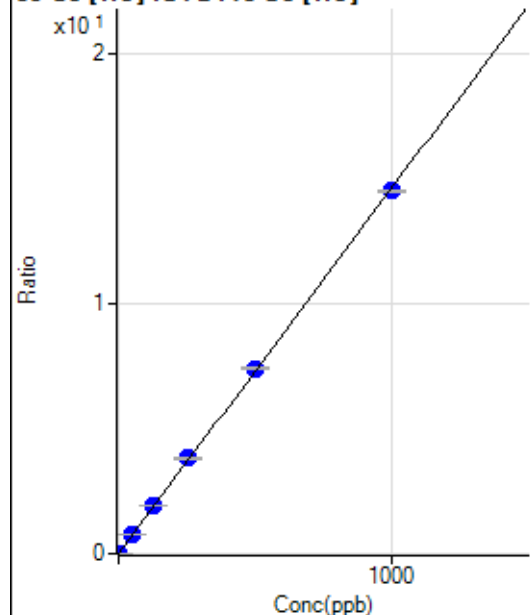
$$y = 2.0656E-004 * x + 7.3759E-004$$

$$R = 0.9999$$

$$DL = 1.526$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio   | Det<br>. | RSD  |
|---|--------------------------|----------|------------|------------|---------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 104.45     | 0.0003  | P        | 16.5 |
| 2 | <input type="checkbox"/> | 0.100    | 0.097      | 634.47     | 0.0017  | P        | 7.1  |
| 3 | <input type="checkbox"/> | 1.000    | 1.097      | 5939.07    | 0.0163  | P        | 0.9  |
| 4 | <input type="checkbox"/> | 50.000   | 53.118     | 284456.77  | 0.7761  | P        | 0.8  |
| 5 | <input type="checkbox"/> | 125.000  | 131.435    | 693259.82  | 1.9200  | P        | 0.2  |
| 6 | <input type="checkbox"/> | 250.000  | 260.740    | 1370589.60 | 3.8087  | P        | 0.5  |
| 7 | <input type="checkbox"/> | 500.000  | 506.479    | 2704623.64 | 7.3979  | P        | 0.8  |
| 8 | <input type="checkbox"/> | 1000.000 | 993.115    | 5413317.98 | 14.5057 | P        | 0.8  |
| 9 | <input type="checkbox"/> |          |            | 13436.33   | 0.0351  | P        | 0.4  |

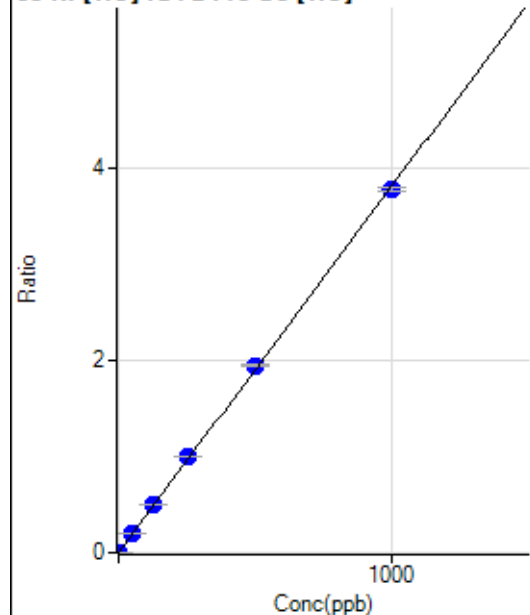
$$y = 0.0146 * x + 2.8518E-004$$

$$R = 0.9999$$

$$DL = 0.009684$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 41.11      | 0.0001 | P        | 25.7 |
| 2 | <input type="checkbox"/> | 0.100    | 0.115      | 205.56     | 0.0005 | P        | 23.1 |
| 3 | <input type="checkbox"/> | 1.000    | 1.170      | 1662.34    | 0.0046 | P        | 2.2  |
| 4 | <input type="checkbox"/> | 50.000   | 53.971     | 75300.14   | 0.2054 | P        | 0.8  |
| 5 | <input type="checkbox"/> | 125.000  | 132.108    | 181507.78  | 0.5027 | P        | 0.9  |
| 6 | <input type="checkbox"/> | 250.000  | 261.838    | 358519.67  | 0.9963 | P        | 0.7  |
| 7 | <input type="checkbox"/> | 500.000  | 510.541    | 710153.27  | 1.9425 | P        | 0.8  |
| 8 | <input type="checkbox"/> | 1000.000 | 990.683    | 1406581.86 | 3.7691 | P        | 0.9  |
| 9 | <input type="checkbox"/> |          |            | 36965.58   | 0.0965 | P        | 0.9  |

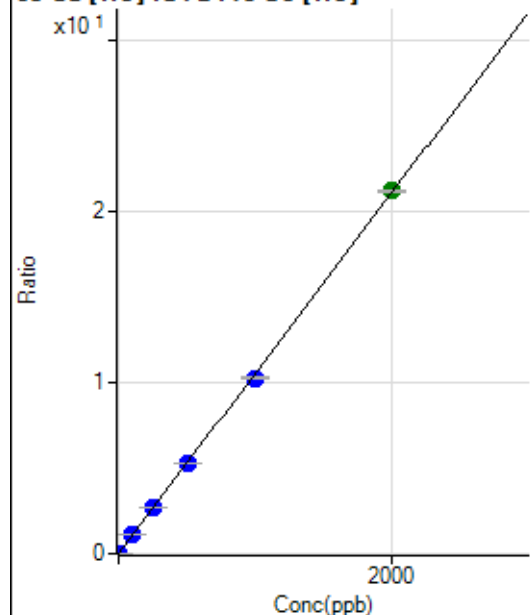
$$y = 0.0038 * x + 1.1212E-004$$

$$R = 0.9998$$

$$DL = 0.0227$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio   | Det | RSD |
|---|--------------------------|----------|------------|------------|---------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 894.49     | 0.0024  | P   | 4.6 |
| 2 | <input type="checkbox"/> | 0.200    | 0.207      | 1725.68    | 0.0046  | P   | 0.9 |
| 3 | <input type="checkbox"/> | 2.000    | 2.167      | 9190.78    | 0.0252  | P   | 1.6 |
| 4 | <input type="checkbox"/> | 100.000  | 102.709    | 396823.03  | 1.0827  | P   | 1.0 |
| 5 | <input type="checkbox"/> | 250.000  | 253.772    | 964593.20  | 2.6716  | P   | 0.9 |
| 6 | <input type="checkbox"/> | 500.000  | 503.418    | 1906330.42 | 5.2974  | P   | 0.3 |
| 7 | <input type="checkbox"/> | 1000.000 | 973.101    | 3742577.41 | 10.2375 | P   | 1.3 |
| 8 | <input type="checkbox"/> | 2000.000 | 2011.988   | 7898313.43 | 21.1645 | A   | 0.7 |
| 9 | <input type="checkbox"/> |          |            | 14530.73   | 0.0379  | P   | 2.6 |

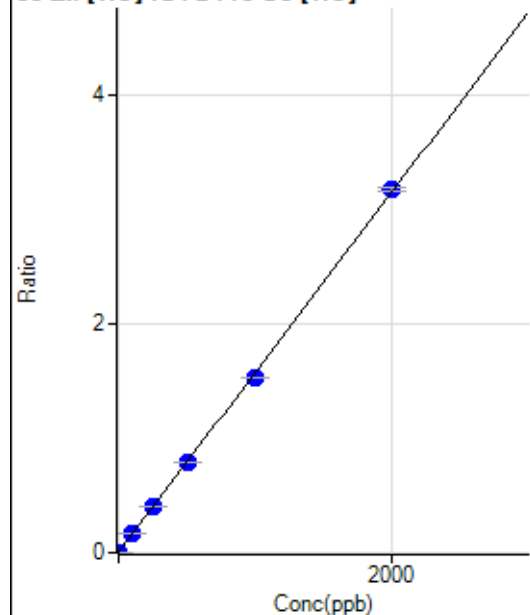
$$y = 0.0105 * x + 0.0024$$

$$R = 0.9999$$

$$DL = 0.03194$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                            | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD |
|---|-------------------------------------|----------|------------|------------|--------|-----|-----|
| 1 | <input type="checkbox"/>            | 0.000    | 0.000      | 1395.65    | 0.0038 | P   | 5.8 |
| 2 | <input checked="" type="checkbox"/> | 0.200    |            |            |        |     |     |
| 3 | <input type="checkbox"/>            | 2.000    | 2.479      | 2809.21    | 0.0077 | P   | 1.9 |
| 4 | <input type="checkbox"/>            | 100.000  | 103.665    | 61254.65   | 0.1671 | P   | 1.4 |
| 5 | <input type="checkbox"/>            | 250.000  | 254.004    | 145871.40  | 0.4040 | P   | 0.3 |
| 6 | <input type="checkbox"/>            | 500.000  | 500.565    | 285177.74  | 0.7925 | P   | 0.6 |
| 7 | <input type="checkbox"/>            | 1000.000 | 969.723    | 559968.38  | 1.5316 | P   | 0.6 |
| 8 | <input type="checkbox"/>            | 2000.000 | 2014.313   | 1185756.69 | 3.1774 | P   | 1.0 |
| 9 | <input type="checkbox"/>            |          |            | 17150.30   | 0.0448 | P   | 1.2 |

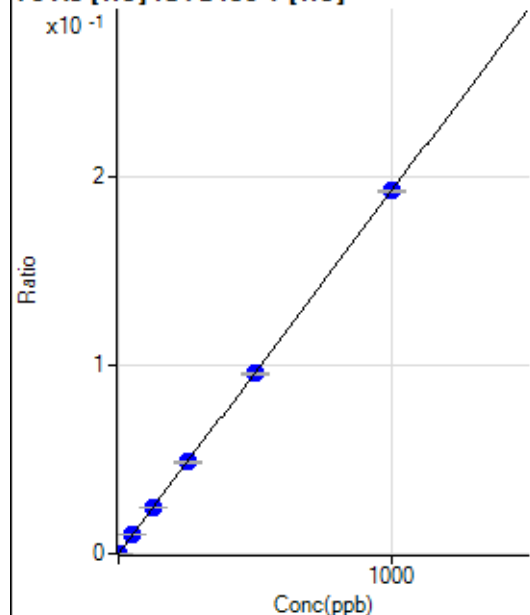
$$y = 0.0016 * x + 0.0038$$

$$R = 0.9998$$

$$DL = 0.42$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS       | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-----------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 5.56      | 0.0000 | P    | 32.9 |
| 2 | <input type="checkbox"/> | 0.100    | 0.079      | 33.95     | 0.0000 | P    | 37.5 |
| 3 | <input type="checkbox"/> | 1.000    | 1.142      | 407.42    | 0.0002 | P    | 4.8  |
| 4 | <input type="checkbox"/> | 50.000   | 51.258     | 18195.41  | 0.0099 | P    | 2.0  |
| 5 | <input type="checkbox"/> | 125.000  | 127.538    | 44538.31  | 0.0246 | P    | 0.7  |
| 6 | <input type="checkbox"/> | 250.000  | 252.075    | 88337.03  | 0.0486 | P    | 0.3  |
| 7 | <input type="checkbox"/> | 500.000  | 498.076    | 177276.60 | 0.0960 | P    | 1.0  |
| 8 | <input type="checkbox"/> | 1000.000 | 1000.063   | 357545.56 | 0.1927 | P    | 0.4  |
| 9 | <input type="checkbox"/> |          |            | 166.67    | 0.0001 | P    | 10.0 |

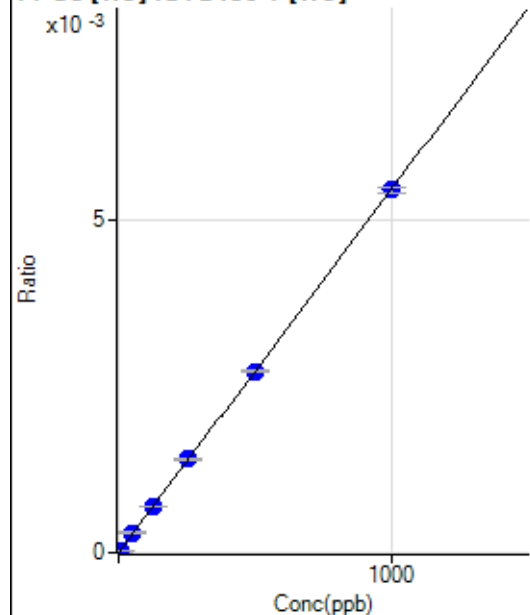
$$y = 1.9272\text{E-}004 * x + 3.0191\text{E-}006$$

$$R = 1.0000$$

$$DL = 0.01547$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS      | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|----------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 2.22     | 0.0000 | P    | 173. |
| 2 | <input type="checkbox"/> | 0.500    | 0.435      | 6.67     | 0.0000 | P    | 86.6 |
| 3 | <input type="checkbox"/> | 5.000    | 4.453      | 46.66    | 0.0000 | P    | 33.3 |
| 4 | <input type="checkbox"/> | 50.000   | 55.298     | 560.02   | 0.0003 | P    | 10.0 |
| 5 | <input type="checkbox"/> | 125.000  | 127.350    | 1265.63  | 0.0007 | P    | 1.2  |
| 6 | <input type="checkbox"/> | 250.000  | 258.376    | 2574.71  | 0.0014 | P    | 2.5  |
| 7 | <input type="checkbox"/> | 500.000  | 497.985    | 5038.74  | 0.0027 | P    | 1.2  |
| 8 | <input type="checkbox"/> | 1000.000 | 998.358    | 10143.70 | 0.0055 | P    | 1.7  |
| 9 | <input type="checkbox"/> |          |            | 7.78     | 0.0000 | P    | 49.2 |

$$y = 5.4757\text{E-}006 * x + 1.2128\text{E-}006$$

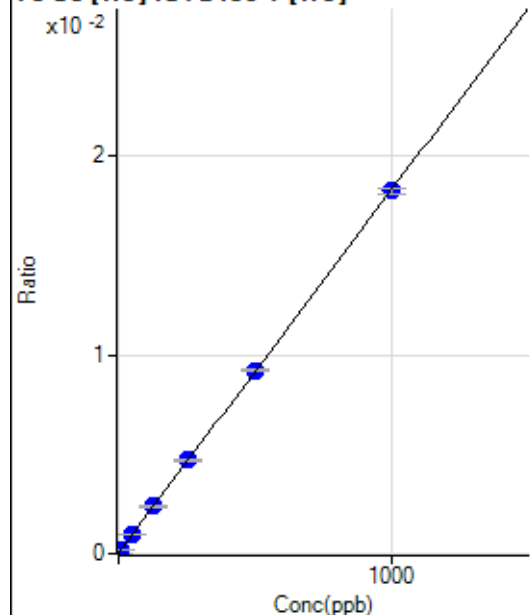
$$R = 1.0000$$

$$DL = 1.151$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS      | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|----------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 74.69    | 0.0000 | P   | 22.5 |
| 2 | <input type="checkbox"/> | 0.500    | 0.215      | 82.72    | 0.0000 | P   | 12.4 |
| 3 | <input type="checkbox"/> | 5.000    | 5.987      | 273.46   | 0.0001 | P   | 4.1  |
| 4 | <input type="checkbox"/> | 50.000   | 52.160     | 1826.67  | 0.0010 | P   | 1.7  |
| 5 | <input type="checkbox"/> | 125.000  | 127.818    | 4298.20  | 0.0024 | P   | 2.8  |
| 6 | <input type="checkbox"/> | 250.000  | 255.019    | 8531.59  | 0.0047 | P   | 0.8  |
| 7 | <input type="checkbox"/> | 500.000  | 501.915    | 16983.47 | 0.0092 | P   | 1.2  |
| 8 | <input type="checkbox"/> | 1000.000 | 997.323    | 33823.34 | 0.0182 | P   | 1.6  |
| 9 | <input type="checkbox"/> |          |            | 78.40    | 0.0000 | P   | 21.2 |

$$y = 1.8241\text{E-}005 * x + 4.0591\text{E-}005$$

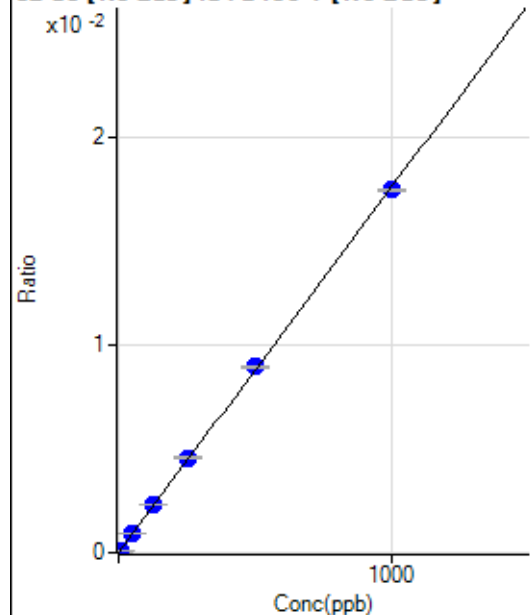
$$R = 1.0000$$

$$DL = 1.501$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS       | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-----------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 85.18     | 0.0000 | P   | 137. |
| 2 | <input type="checkbox"/> | 0.500    | 0.361      | 178.86    | 0.0000 | P   | 101. |
| 3 | <input type="checkbox"/> | 5.000    | 5.762      | 1545.67   | 0.0001 | P   | 10.1 |
| 4 | <input type="checkbox"/> | 50.000   | 53.289     | 13505.36  | 0.0009 | P   | 0.7  |
| 5 | <input type="checkbox"/> | 125.000  | 130.359    | 32773.18  | 0.0023 | P   | 0.4  |
| 6 | <input type="checkbox"/> | 250.000  | 260.067    | 64416.21  | 0.0046 | P   | 0.3  |
| 7 | <input type="checkbox"/> | 500.000  | 507.934    | 126085.26 | 0.0089 | P   | 0.5  |
| 8 | <input type="checkbox"/> | 1000.000 | 992.678    | 248271.79 | 0.0174 | P   | 0.4  |
| 9 | <input type="checkbox"/> |          |            | 257.34    | 0.0000 | P   | 41.1 |

$$y = 1.7562\text{E-}005 * x + 5.9784\text{E-}006$$

$$R = 0.9999$$

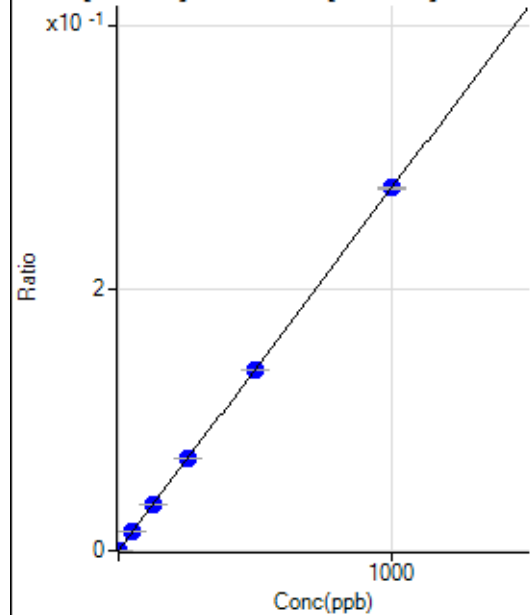
$$DL = 1.405$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS     | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|---------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 1500.10 |       | P        | 2.6  |
| 2 | <input type="checkbox"/> |       |            | 1546.77 |       | P        | 11.3 |
| 3 | <input type="checkbox"/> |       |            | 1520.11 |       | P        | 5.5  |
| 4 | <input type="checkbox"/> |       |            | 1427.88 |       | P        | 1.5  |
| 5 | <input type="checkbox"/> |       |            | 1521.22 |       | P        | 5.4  |
| 6 | <input type="checkbox"/> |       |            | 1484.55 |       | P        | 7.2  |
| 7 | <input type="checkbox"/> |       |            | 1506.77 |       | P        | 0.7  |
| 8 | <input type="checkbox"/> |       |            | 1428.98 |       | P        | 1.5  |
| 9 | <input type="checkbox"/> |       |            | 1579.00 |       | P        | 5.2  |

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 2464.22    | 0.0002 | P        | 10.9 |
| 2 | <input type="checkbox"/> | 0.100    | 0.095      | 2858.74    | 0.0002 | P        | 7.9  |
| 3 | <input type="checkbox"/> | 1.000    | 0.975      | 6359.97    | 0.0004 | P        | 3.8  |
| 4 | <input type="checkbox"/> | 50.000   | 50.993     | 204550.28  | 0.0143 | P        | 0.2  |
| 5 | <input type="checkbox"/> | 125.000  | 125.985    | 499624.66  | 0.0350 | P        | 0.4  |
| 6 | <input type="checkbox"/> | 250.000  | 251.972    | 983333.63  | 0.0698 | P        | 0.3  |
| 7 | <input type="checkbox"/> | 500.000  | 497.488    | 1944614.89 | 0.1377 | P        | 0.7  |
| 8 | <input type="checkbox"/> | 1000.000 | 1000.590   | 3939557.81 | 0.2767 | P        | 0.3  |
| 9 | <input type="checkbox"/> |          |            | 18011.89   | 0.0013 | P        | 0.5  |

$$y = 2.7639\text{E-}004 * x + 1.7150\text{E-}004$$

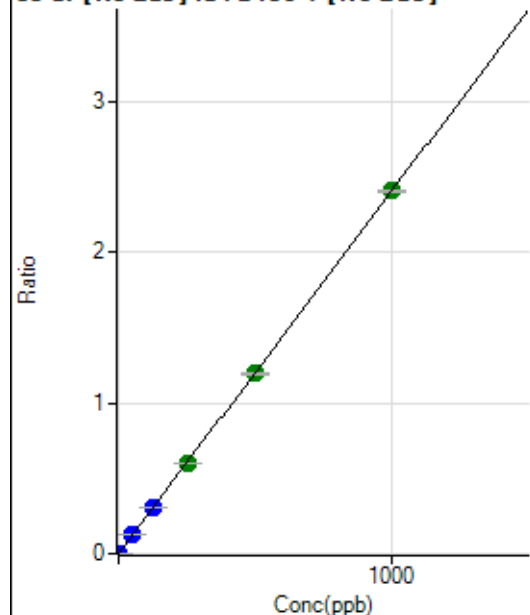
$$R = 1.0000$$

$$DL = 0.2025$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 313.91      | 0.0000 | P    | 14.3 |
| 2 | <input type="checkbox"/> | 0.100    | 0.101      | 3820.13     | 0.0003 | P    | 5.9  |
| 3 | <input type="checkbox"/> | 1.000    | 1.025      | 35815.12    | 0.0025 | P    | 1.3  |
| 4 | <input type="checkbox"/> | 50.000   | 50.550     | 1740815.10  | 0.1214 | P    | 0.3  |
| 5 | <input type="checkbox"/> | 125.000  | 125.581    | 4305853.31  | 0.3016 | P    | 0.4  |
| 6 | <input type="checkbox"/> | 250.000  | 249.830    | 8449867.20  | 0.5999 | A    | 0.3  |
| 7 | <input type="checkbox"/> | 500.000  | 497.008    | 16857391.70 | 1.1934 | A    | 0.5  |
| 8 | <input type="checkbox"/> | 1000.000 | 1001.438   | 34233345.56 | 2.4047 | A    | 0.3  |
| 9 | <input type="checkbox"/> |          |            | 137040.49   | 0.0101 | P    | 1.4  |

$$y = 0.0024 * x + 2.1818E-005$$

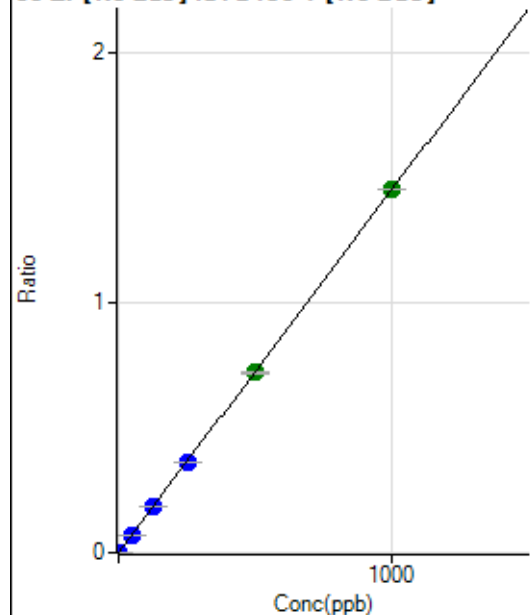
$$R = 1.0000$$

$$DL = 0.003908$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 913.96      | 0.0001 | P    | 11.5 |
| 2 | <input type="checkbox"/> | 0.100    | 0.088      | 2772.61     | 0.0002 | P    | 0.6  |
| 3 | <input type="checkbox"/> | 1.000    | 0.929      | 20348.45    | 0.0014 | P    | 2.3  |
| 4 | <input type="checkbox"/> | 50.000   | 49.980     | 1039461.04  | 0.0725 | P    | 0.7  |
| 5 | <input type="checkbox"/> | 125.000  | 125.401    | 2595679.83  | 0.1818 | P    | 0.1  |
| 6 | <input type="checkbox"/> | 250.000  | 251.114    | 5126561.57  | 0.3640 | P    | 0.5  |
| 7 | <input type="checkbox"/> | 500.000  | 497.509    | 10184509.60 | 0.7211 | A    | 0.6  |
| 8 | <input type="checkbox"/> | 1000.000 | 1000.918   | 20650924.94 | 1.4506 | A    | 0.2  |
| 9 | <input type="checkbox"/> |          |            | 5445.70     | 0.0004 | P    | 2.0  |

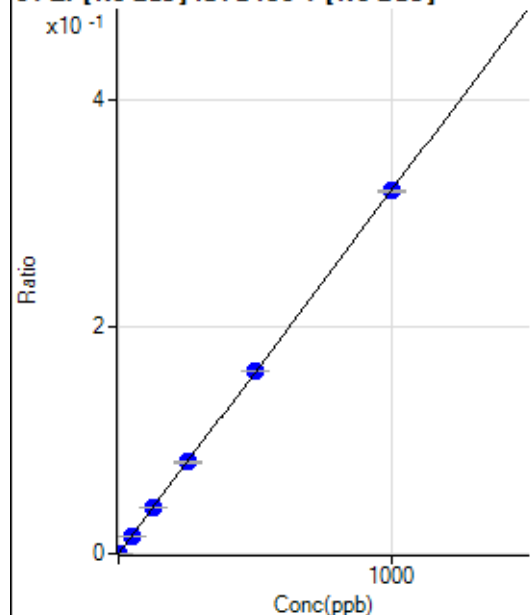
$$y = 0.0014 * x + 6.3594E-005$$

$$R = 1.0000$$

$$DL = 0.01518$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 175.01     | 0.0000 | P        | 10.5 |
| 2 | <input type="checkbox"/> | 0.100    | 0.094      | 611.15     | 0.0000 | P        | 9.1  |
| 3 | <input type="checkbox"/> | 1.000    | 0.916      | 4406.43    | 0.0003 | P        | 2.6  |
| 4 | <input type="checkbox"/> | 50.000   | 49.923     | 229306.24  | 0.0160 | P        | 1.3  |
| 5 | <input type="checkbox"/> | 125.000  | 126.032    | 576177.79  | 0.0404 | P        | 1.1  |
| 6 | <input type="checkbox"/> | 250.000  | 252.265    | 1137510.85 | 0.0808 | P        | 0.8  |
| 7 | <input type="checkbox"/> | 500.000  | 501.027    | 2265471.73 | 0.1604 | P        | 0.1  |
| 8 | <input type="checkbox"/> | 1000.000 | 998.795    | 4551723.58 | 0.3197 | P        | 0.3  |
| 9 | <input type="checkbox"/> |          |            | 1172.32    | 0.0001 | P        | 2.5  |

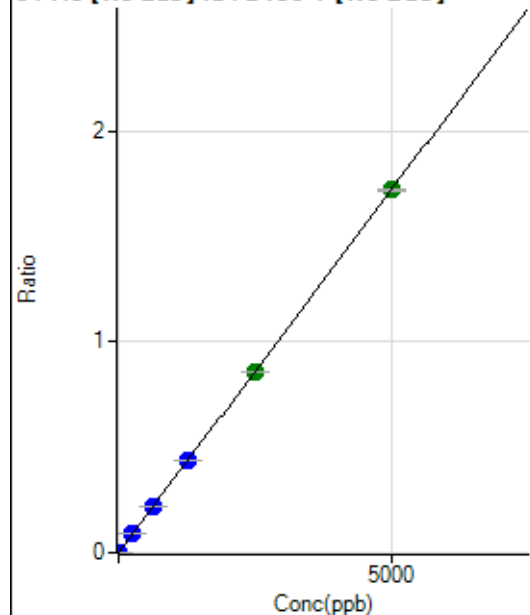
$$y = 3.2010\text{E-}004 * x + 1.2180\text{E-}005$$

$$R = 1.0000$$

$$DL = 0.012$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 388.91      | 0.0000 | P        | 13.4 |
| 2 | <input type="checkbox"/> | 0.500    | 0.481      | 2786.51     | 0.0002 | P        | 4.5  |
| 3 | <input type="checkbox"/> | 5.000    | 5.181      | 26113.52    | 0.0018 | P        | 2.5  |
| 4 | <input type="checkbox"/> | 250.000  | 252.478    | 1246322.42  | 0.0869 | P        | 0.4  |
| 5 | <input type="checkbox"/> | 625.000  | 629.444    | 3093353.23  | 0.2167 | P        | 1.2  |
| 6 | <input type="checkbox"/> | 1250.000 | 1264.500   | 6129937.07  | 0.4352 | P        | 0.7  |
| 7 | <input type="checkbox"/> | 2500.000 | 2494.824   | 12128009.65 | 0.8586 | A        | 0.5  |
| 8 | <input type="checkbox"/> | 5000.000 | 4998.284   | 24489037.87 | 1.7202 | A        | 0.6  |
| 9 | <input type="checkbox"/> |          |            | 23904.12    | 0.0018 | P        | 3.0  |

$$y = 3.4416\text{E-}004 * x + 2.7070\text{E-}005$$

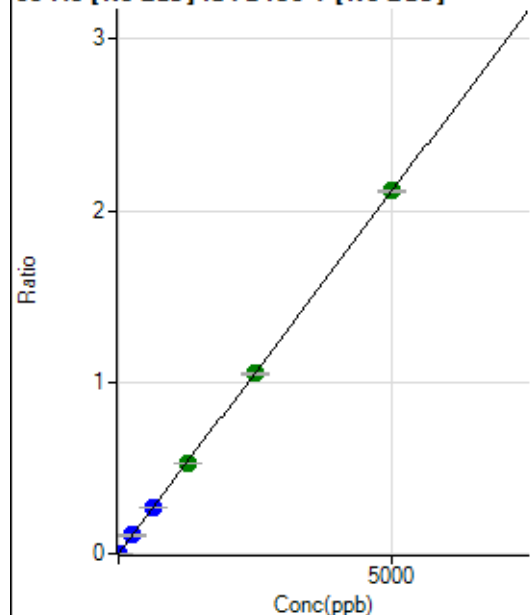
$$R = 1.0000$$

$$DL = 0.03171$$

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      | 113.90      | 0.0000 | P    | 14.5 |
| 2 | <input type="checkbox"/> | 0.500    | 0.516      | 3264.42     | 0.0002 | P    | 5.5  |
| 3 | <input type="checkbox"/> | 5.000    | 5.142      | 31438.35    | 0.0022 | P    | 1.3  |
| 4 | <input type="checkbox"/> | 250.000  | 252.299    | 1527771.12  | 0.1065 | P    | 0.3  |
| 5 | <input type="checkbox"/> | 625.000  | 630.567    | 3801953.95  | 0.2663 | P    | 0.6  |
| 6 | <input type="checkbox"/> | 1250.000 | 1241.663   | 7385138.19  | 0.5243 | A    | 0.7  |
| 7 | <input type="checkbox"/> | 2500.000 | 2485.010   | 14821845.64 | 1.0494 | A    | 0.9  |
| 8 | <input type="checkbox"/> | 5000.000 | 5008.768   | 30110864.91 | 2.1151 | A    | 0.3  |
| 9 | <input type="checkbox"/> |          |            | 36948.74    | 0.0027 | P    | 2.1  |

$$y = 4.2228\text{E-}004 * x + 7.9159\text{E-}006$$

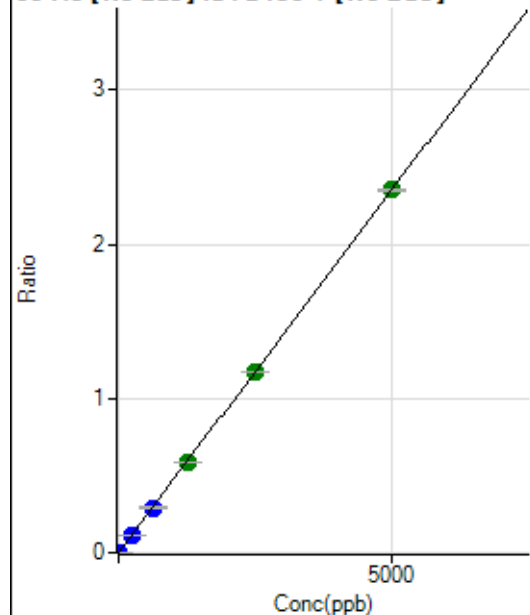
$$R = 1.0000$$

$$DL = 0.008127$$

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      | 216.68      | 0.0000 | P    | 11.1 |
| 2 | <input type="checkbox"/> | 0.500    | 0.515      | 3714.51     | 0.0003 | P    | 5.9  |
| 3 | <input type="checkbox"/> | 5.000    | 5.084      | 34679.18    | 0.0024 | P    | 3.5  |
| 4 | <input type="checkbox"/> | 250.000  | 251.058    | 1692141.86  | 0.1180 | P    | 0.5  |
| 5 | <input type="checkbox"/> | 625.000  | 622.670    | 4178602.78  | 0.2927 | P    | 0.8  |
| 6 | <input type="checkbox"/> | 1250.000 | 1242.424   | 8224711.73  | 0.5839 | A    | 0.4  |
| 7 | <input type="checkbox"/> | 2500.000 | 2490.592   | 16533565.48 | 1.1706 | A    | 0.6  |
| 8 | <input type="checkbox"/> | 5000.000 | 5006.837   | 33500347.62 | 2.3532 | A    | 0.2  |
| 9 | <input type="checkbox"/> |          |            | 56209.05    | 0.0041 | P    | 1.7  |

$$y = 4.6999\text{E-}004 * x + 1.5080\text{E-}005$$

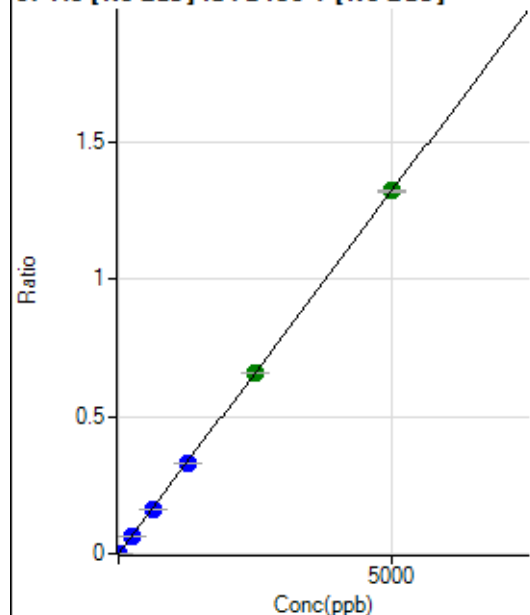
$$R = 1.0000$$

$$DL = 0.01073$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 108.34      | 0.0000 | P        | 16.0 |
| 2 | <input type="checkbox"/> | 0.500    | 0.530      | 2133.58     | 0.0001 | P        | 5.2  |
| 3 | <input type="checkbox"/> | 5.000    | 5.020      | 19230.22    | 0.0013 | P        | 2.7  |
| 4 | <input type="checkbox"/> | 250.000  | 249.315    | 944082.21   | 0.0658 | P        | 0.9  |
| 5 | <input type="checkbox"/> | 625.000  | 621.762    | 2344244.72  | 0.1642 | P        | 0.4  |
| 6 | <input type="checkbox"/> | 1250.000 | 1244.559   | 4628826.97  | 0.3286 | P        | 0.4  |
| 7 | <input type="checkbox"/> | 2500.000 | 2491.181   | 9291298.47  | 0.6578 | A        | 0.5  |
| 8 | <input type="checkbox"/> | 5000.000 | 5006.209   | 18819183.76 | 1.3219 | A        | 0.4  |
| 9 | <input type="checkbox"/> |          |            | 22487.94    | 0.0017 | P        | 2.8  |

$$y = 2.6405E-004 * x + 7.5391E-006$$

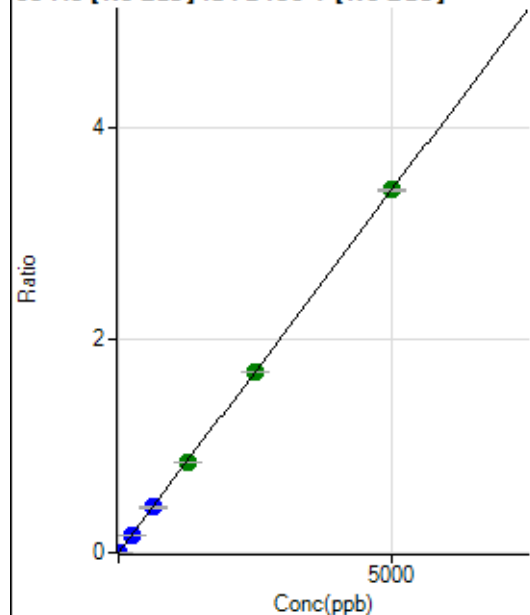
$$R = 1.0000$$

$$DL = 0.01369$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det<br>. | RSD |
|---|--------------------------|----------|------------|-------------|--------|----------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 175.01      | 0.0000 | P        | 7.4 |
| 2 | <input type="checkbox"/> | 0.500    | 0.497      | 5073.31     | 0.0004 | P        | 3.6 |
| 3 | <input type="checkbox"/> | 5.000    | 5.176      | 51067.39    | 0.0035 | P        | 1.3 |
| 4 | <input type="checkbox"/> | 250.000  | 249.615    | 2439742.37  | 0.1701 | P        | 0.5 |
| 5 | <input type="checkbox"/> | 625.000  | 625.557    | 6087841.06  | 0.4264 | P        | 0.7 |
| 6 | <input type="checkbox"/> | 1250.000 | 1243.713   | 11939970.14 | 0.8477 | A        | 0.2 |
| 7 | <input type="checkbox"/> | 2500.000 | 2489.797   | 23969911.65 | 1.6970 | A        | 0.4 |
| 8 | <input type="checkbox"/> | 5000.000 | 5006.623   | 48579947.61 | 3.4125 | A        | 0.2 |
| 9 | <input type="checkbox"/> |          |            | 58897.91    | 0.0043 | P        | 1.9 |

$$y = 6.8159E-004 * x + 1.2166E-005$$

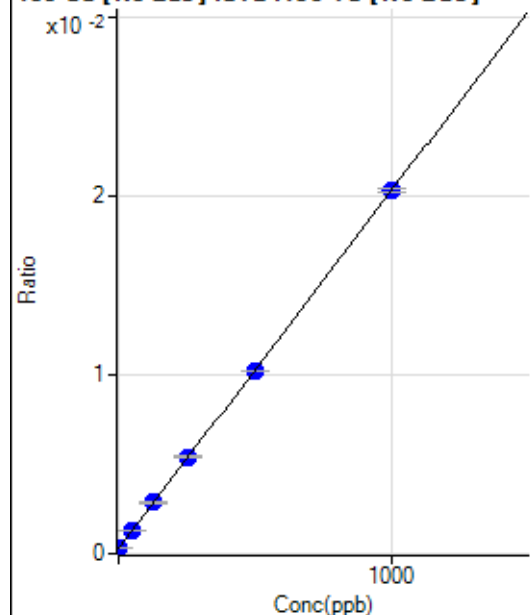
$$R = 1.0000$$

$$DL = 0.003945$$

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      | 4939.95   | 0.0003 | P    | 4.5 |
| 2 | <input type="checkbox"/> | 0.100    | 0.812      | 5265.10   | 0.0003 | P    | 0.9 |
| 3 | <input type="checkbox"/> | 1.000    | 1.350      | 5431.80   | 0.0003 | P    | 5.9 |
| 4 | <input type="checkbox"/> | 50.000   | 52.196     | 23459.14  | 0.0013 | P    | 1.6 |
| 5 | <input type="checkbox"/> | 125.000  | 128.733    | 50423.99  | 0.0029 | P    | 1.0 |
| 6 | <input type="checkbox"/> | 250.000  | 255.999    | 94278.81  | 0.0054 | P    | 1.4 |
| 7 | <input type="checkbox"/> | 500.000  | 497.520    | 180469.84 | 0.0102 | P    | 0.4 |
| 8 | <input type="checkbox"/> | 1000.000 | 999.163    | 358422.67 | 0.0203 | P    | 1.1 |
| 9 | <input type="checkbox"/> |          |            | 4906.61   | 0.0003 | P    | 3.6 |

$$y = 2.0022\text{E-}005 * x + 2.8048\text{E-}004$$

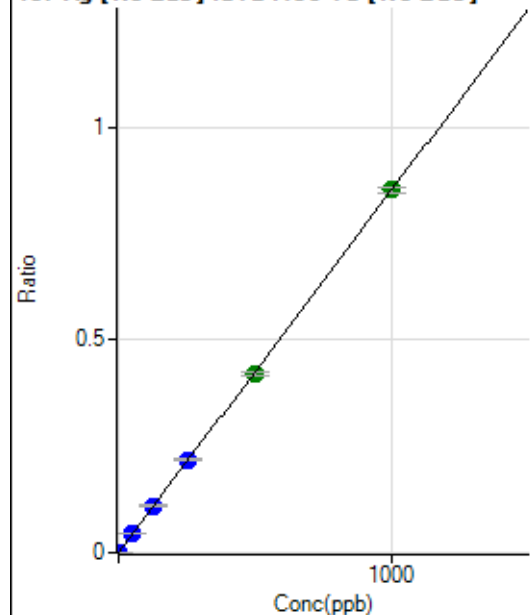
$$R = 1.0000$$

$$DL = 1.898$$

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      | 177.79      | 0.0000 | P    | 18.1 |
| 2 | <input type="checkbox"/> | 0.100    | 0.106      | 1775.19     | 0.0001 | P    | 9.8  |
| 3 | <input type="checkbox"/> | 1.000    | 1.027      | 15634.27    | 0.0009 | P    | 3.1  |
| 4 | <input type="checkbox"/> | 50.000   | 52.793     | 795774.61   | 0.0450 | P    | 0.5  |
| 5 | <input type="checkbox"/> | 125.000  | 129.009    | 1938077.47  | 0.1099 | P    | 1.6  |
| 6 | <input type="checkbox"/> | 250.000  | 256.567    | 3809906.33  | 0.2185 | P    | 1.4  |
| 7 | <input type="checkbox"/> | 500.000  | 493.504    | 7404242.00  | 0.4202 | A    | 1.2  |
| 8 | <input type="checkbox"/> | 1000.000 | 1000.966   | 15059124.12 | 0.8523 | A    | 1.3  |
| 9 | <input type="checkbox"/> |          |            | 2711.50     | 0.0002 | P    | 8.7  |

$$y = 8.5148\text{E-}004 * x + 1.0100\text{E-}005$$

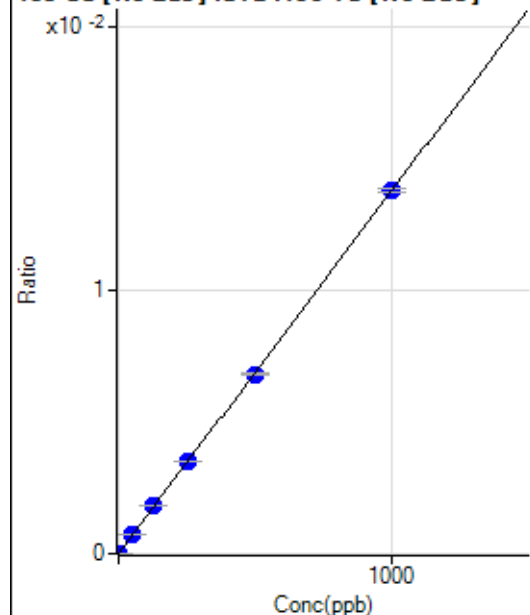
$$R = 0.9999$$

$$DL = 0.006424$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS       | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-----------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 19.45     | 0.0000 | P    | 24.3 |
| 2 | <input type="checkbox"/> | 0.100    | 0.136      | 52.78     | 0.0000 | P    | 19.2 |
| 3 | <input type="checkbox"/> | 1.000    | 1.021      | 268.06    | 0.0000 | P    | 16.3 |
| 4 | <input type="checkbox"/> | 50.000   | 51.920     | 12672.56  | 0.0007 | P    | 1.1  |
| 5 | <input type="checkbox"/> | 125.000  | 131.062    | 31854.19  | 0.0018 | P    | 1.9  |
| 6 | <input type="checkbox"/> | 250.000  | 255.181    | 61293.29  | 0.0035 | P    | 0.9  |
| 7 | <input type="checkbox"/> | 500.000  | 495.453    | 120228.41 | 0.0068 | P    | 0.5  |
| 8 | <input type="checkbox"/> | 1000.000 | 1000.125   | 243327.62 | 0.0138 | P    | 1.2  |
| 9 | <input type="checkbox"/> |          |            | 81.95     | 0.0000 | P    | 3.3  |

$$y = 1.3769\text{E-}005 * x + 1.1036\text{E-}006$$

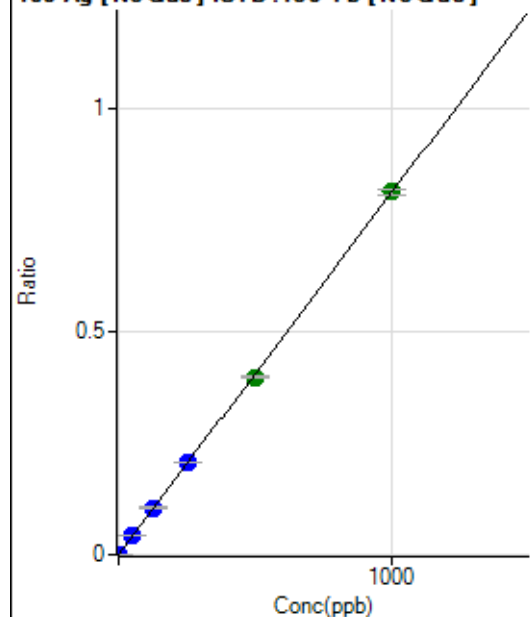
$$R = 1.0000$$

$$DL = 0.05842$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 102.78      | 0.0000 | P    | 24.6 |
| 2 | <input type="checkbox"/> | 0.100    | 0.105      | 1616.84     | 0.0001 | P    | 2.7  |
| 3 | <input type="checkbox"/> | 1.000    | 1.033      | 14919.53    | 0.0008 | P    | 1.7  |
| 4 | <input type="checkbox"/> | 50.000   | 52.613     | 756202.81   | 0.0427 | P    | 1.0  |
| 5 | <input type="checkbox"/> | 125.000  | 130.156    | 1864434.16  | 0.1057 | P    | 1.4  |
| 6 | <input type="checkbox"/> | 250.000  | 255.707    | 3620807.03  | 0.2076 | P    | 1.5  |
| 7 | <input type="checkbox"/> | 500.000  | 490.456    | 7016972.03  | 0.3982 | A    | 1.2  |
| 8 | <input type="checkbox"/> | 1000.000 | 1002.570   | 14382720.29 | 0.8140 | A    | 1.3  |
| 9 | <input type="checkbox"/> |          |            | 2611.46     | 0.0002 | P    | 3.4  |

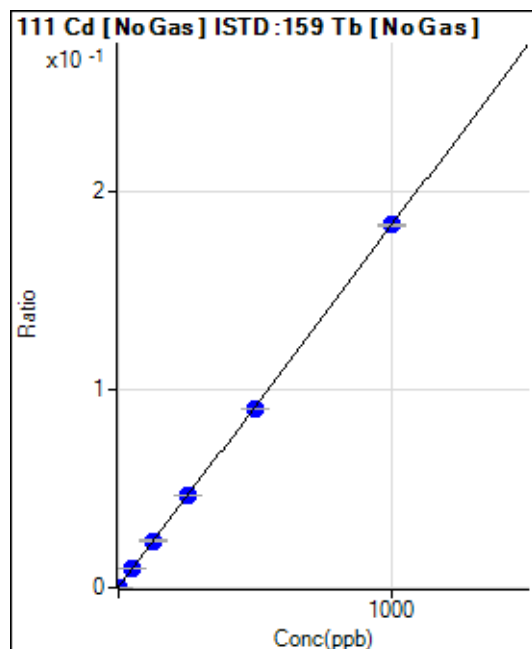
$$y = 8.1194\text{E-}004 * x + 5.8355\text{E-}006$$

$$R = 0.9999$$

$$DL = 0.005309$$

Weight: &lt;None&gt;

Min Conc: 0



|   | R <sub>ct</sub>                     | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD |
|---|-------------------------------------|----------|------------|------------|--------|------|-----|
| 1 | <input type="checkbox"/>            | 0.000    | 0.000      | 3481.85    | 0.0002 | P    | 4.5 |
| 2 | <input checked="" type="checkbox"/> | 0.100    |            |            |        |      |     |
| 3 | <input type="checkbox"/>            | 1.000    | 1.059      | 6903.96    | 0.0004 | P    | 2.2 |
| 4 | <input type="checkbox"/>            | 50.000   | 52.441     | 172822.69  | 0.0098 | P    | 0.7 |
| 5 | <input type="checkbox"/>            | 125.000  | 128.678    | 417621.22  | 0.0237 | P    | 1.1 |
| 6 | <input type="checkbox"/>            | 250.000  | 255.564    | 816521.09  | 0.0468 | P    | 0.7 |
| 7 | <input type="checkbox"/>            | 500.000  | 493.415    | 1589586.39 | 0.0902 | P    | 0.7 |
| 8 | <input type="checkbox"/>            | 1000.000 | 1001.320   | 3231111.63 | 0.1829 | P    | 0.6 |
| 9 | <input type="checkbox"/>            |          |            | 4110.64    | 0.0002 | P    | 3.0 |

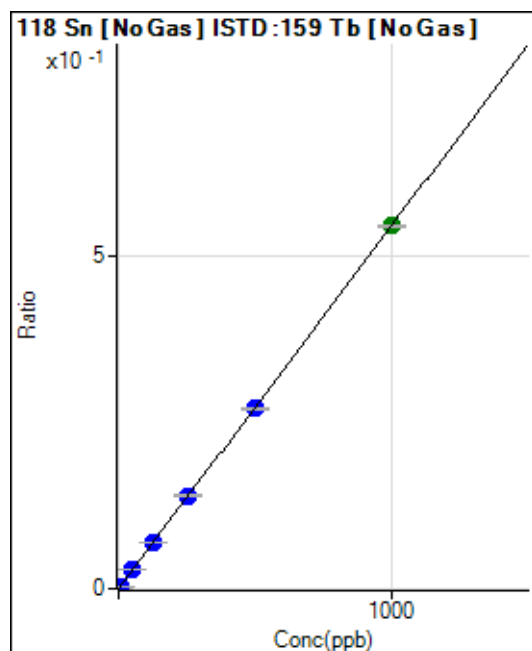
$$y = 1.8243\text{E-}004 * x + 1.9769\text{E-}004$$

$$R = 0.9999$$

$$DL = 0.1456$$

Weight: <None>

Min Conc: 0



|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 1275.12    | 0.0001 | P    | 14.9 |
| 2 | <input type="checkbox"/> | 0.500    | 0.533      | 6451.76    | 0.0004 | P    | 2.8  |
| 3 | <input type="checkbox"/> | 5.000    | 5.373      | 53159.92   | 0.0030 | P    | 1.4  |
| 4 | <input type="checkbox"/> | 50.000   | 51.264     | 497142.16  | 0.0281 | P    | 0.4  |
| 5 | <input type="checkbox"/> | 125.000  | 127.125    | 1227057.27 | 0.0695 | P    | 0.5  |
| 6 | <input type="checkbox"/> | 250.000  | 255.030    | 2431881.17 | 0.1395 | P    | 1.7  |
| 7 | <input type="checkbox"/> | 500.000  | 497.163    | 4788980.49 | 0.2718 | P    | 0.7  |
| 8 | <input type="checkbox"/> | 1000.000 | 999.830    | 9656261.50 | 0.5465 | A    | 0.4  |
| 9 | <input type="checkbox"/> |          |            | 4953.88    | 0.0003 | P    | 3.0  |

$$y = 5.4653\text{E-}004 * x + 7.2435\text{E-}005$$

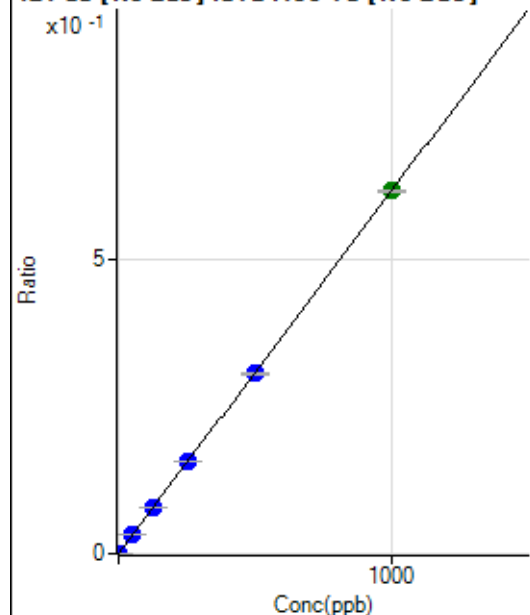
$$R = 1.0000$$

$$DL = 0.05918$$

Weight: <None>

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 116.67      | 0.0000 | P    | 25.3 |
| 2 | <input type="checkbox"/> | 0.200    | 0.207      | 2372.53     | 0.0001 | P    | 2.2  |
| 3 | <input type="checkbox"/> | 2.000    | 2.033      | 22201.64    | 0.0013 | P    | 2.0  |
| 4 | <input type="checkbox"/> | 50.000   | 50.926     | 554291.32   | 0.0313 | P    | 0.5  |
| 5 | <input type="checkbox"/> | 125.000  | 126.713    | 1374704.34  | 0.0779 | P    | 0.6  |
| 6 | <input type="checkbox"/> | 250.000  | 254.596    | 2730052.17  | 0.1565 | P    | 0.7  |
| 7 | <input type="checkbox"/> | 500.000  | 497.241    | 5387175.55  | 0.3057 | P    | 1.0  |
| 8 | <input type="checkbox"/> | 1000.000 | 999.970    | 10863703.54 | 0.6148 | A    | 0.4  |
| 9 | <input type="checkbox"/> |          |            | 10490.47    | 0.0006 | P    | 4.3  |

$$y = 6.1485\text{E-}004 * x + 6.6201\text{E-}006$$

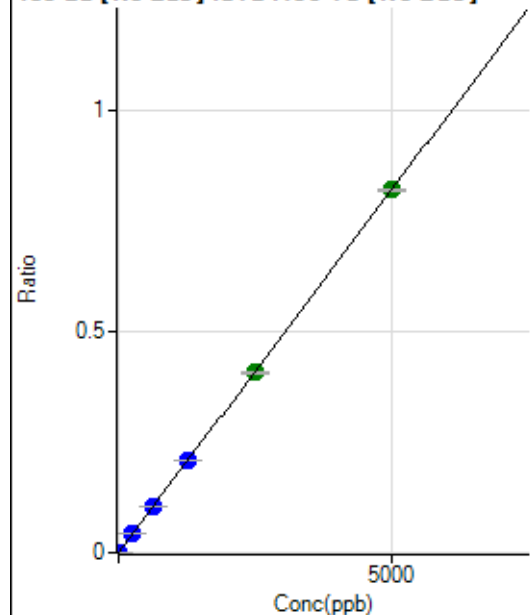
$$R = 1.0000$$

$$DL = 0.008169$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD |
|---|--------------------------|----------|------------|-------------|--------|------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 111.12      | 0.0000 | P    | 8.7 |
| 2 | <input type="checkbox"/> | 1.000    | 1.047      | 3161.62     | 0.0002 | P    | 4.1 |
| 3 | <input type="checkbox"/> | 10.000   | 10.642     | 30990.96    | 0.0018 | P    | 0.6 |
| 4 | <input type="checkbox"/> | 250.000  | 255.374    | 742434.40   | 0.0419 | P    | 1.0 |
| 5 | <input type="checkbox"/> | 625.000  | 635.019    | 1840202.08  | 0.1043 | P    | 0.4 |
| 6 | <input type="checkbox"/> | 1250.000 | 1265.720   | 3625587.84  | 0.2079 | P    | 0.1 |
| 7 | <input type="checkbox"/> | 2500.000 | 2487.280   | 7198334.45  | 0.4085 | A    | 0.8 |
| 8 | <input type="checkbox"/> | 5000.000 | 5000.908   | 14512660.22 | 0.8214 | A    | 0.9 |
| 9 | <input type="checkbox"/> |          |            | 3147.73     | 0.0002 | P    | 3.8 |

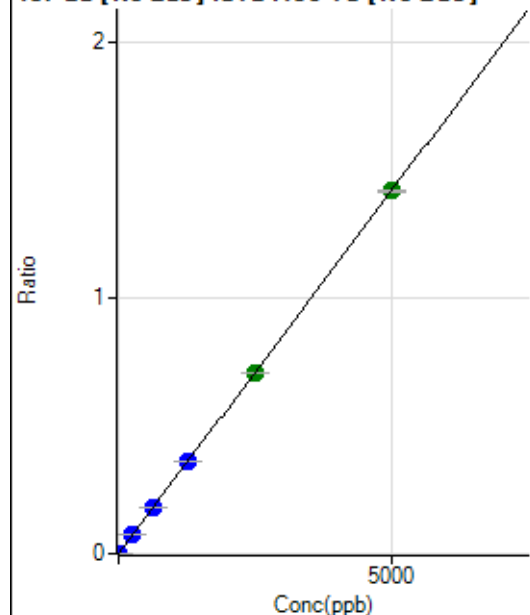
$$y = 1.6424\text{E-}004 * x + 6.3100\text{E-}006$$

$$R = 1.0000$$

$$DL = 0.01004$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 130.56      | 0.0000 | P        | 22.0 |
| 2 | <input type="checkbox"/> | 1.000    | 1.083      | 5590.26     | 0.0003 | P        | 3.1  |
| 3 | <input type="checkbox"/> | 10.000   | 10.543     | 53046.64    | 0.0030 | P        | 2.9  |
| 4 | <input type="checkbox"/> | 250.000  | 254.783    | 1281291.02  | 0.0724 | P        | 0.6  |
| 5 | <input type="checkbox"/> | 625.000  | 636.395    | 3190023.12  | 0.1808 | P        | 0.8  |
| 6 | <input type="checkbox"/> | 1250.000 | 1264.812   | 6267025.75  | 0.3594 | P        | 0.6  |
| 7 | <input type="checkbox"/> | 2500.000 | 2494.138   | 12486544.64 | 0.7086 | A        | 0.6  |
| 8 | <input type="checkbox"/> | 5000.000 | 4997.563   | 25088257.85 | 1.4199 | A        | 0.5  |
| 9 | <input type="checkbox"/> |          |            | 5251.21     | 0.0003 | P        | 7.2  |

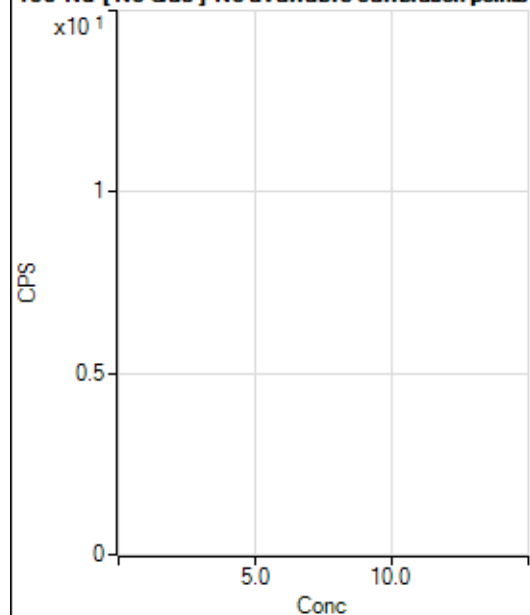
$$y = 2.8411\text{E-}004 * x + 7.4085\text{E-}006$$

$$R = 1.0000$$

$$DL = 0.01718$$

Weight: &lt;None&gt;

Min Conc: 0

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

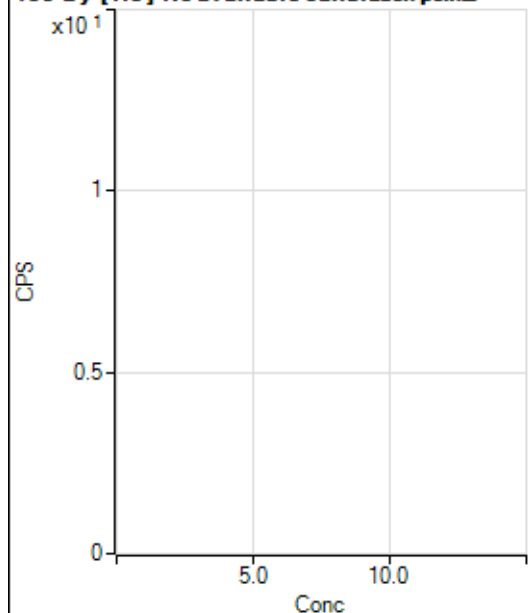
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 17.78  |       | P        | 21.7 |
| 2 | <input type="checkbox"/> |       |            | 11.11  |       | P        | 91.7 |
| 3 | <input type="checkbox"/> |       |            | 15.56  |       | P        | 65.5 |
| 4 | <input type="checkbox"/> |       |            | 46.67  |       | P        | 51.5 |
| 5 | <input type="checkbox"/> |       |            | 160.01 |       | P        | 19.1 |
| 6 | <input type="checkbox"/> |       |            | 244.46 |       | P        | 7.9  |
| 7 | <input type="checkbox"/> |       |            | 506.69 |       | P        | 9.9  |
| 8 | <input type="checkbox"/> |       |            | 980.07 |       | P        | 9.5  |
| 9 | <input type="checkbox"/> |       |            | 115.56 |       | P        | 23.3 |

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

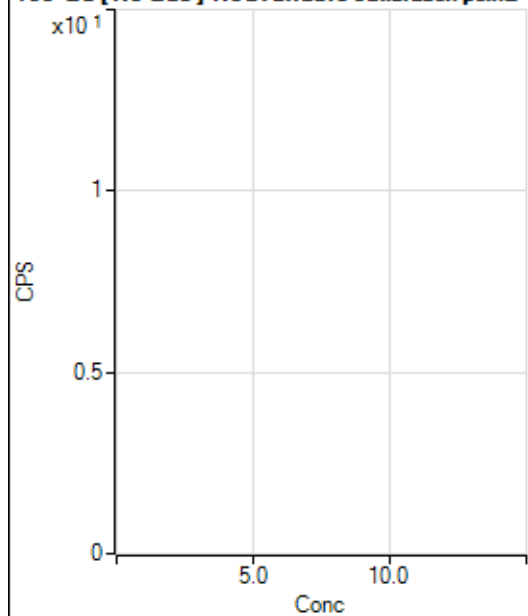
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 10.00  |       | P        | 33.3 |
| 2 | <input type="checkbox"/> |       |            | 11.11  |       | P        | 17.3 |
| 3 | <input type="checkbox"/> |       |            | 6.66   |       | P        | 86.6 |
| 4 | <input type="checkbox"/> |       |            | 10.00  |       | P        | 0.0  |
| 5 | <input type="checkbox"/> |       |            | 21.11  |       | P        | 45.6 |
| 6 | <input type="checkbox"/> |       |            | 30.00  |       | P        | 44.4 |
| 7 | <input type="checkbox"/> |       |            | 40.00  |       | P        | 8.3  |
| 8 | <input type="checkbox"/> |       |            | 101.11 |       | P        | 12.5 |
| 9 | <input type="checkbox"/> |       |            | 42.22  |       | P        | 25.4 |

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

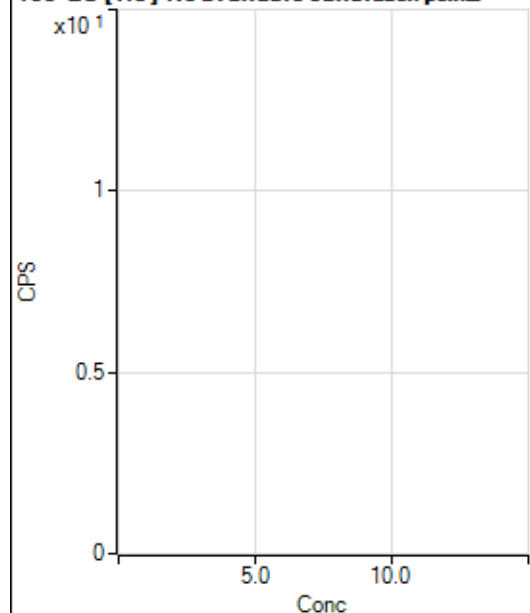
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 61.11  |       | P        | 20.8 |
| 2 | <input type="checkbox"/> |       |            | 52.78  |       | P        | 48.2 |
| 3 | <input type="checkbox"/> |       |            | 25.00  |       | P        | 57.7 |
| 4 | <input type="checkbox"/> |       |            | 38.89  |       | P        | 12.4 |
| 5 | <input type="checkbox"/> |       |            | 88.89  |       | P        | 53.3 |
| 6 | <input type="checkbox"/> |       |            | 97.23  |       | P        | 55.1 |
| 7 | <input type="checkbox"/> |       |            | 152.79 |       | P        | 13.7 |
| 8 | <input type="checkbox"/> |       |            | 219.46 |       | P        | 8.8  |
| 9 | <input type="checkbox"/> |       |            | 111.12 |       | P        | 49.9 |

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

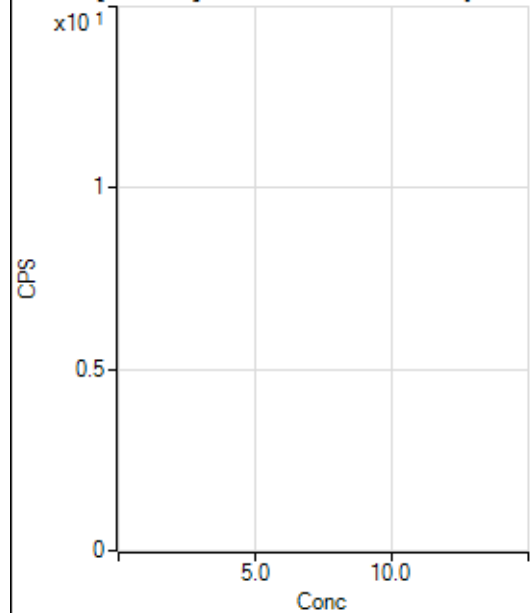
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 28.89  |       | P        | 17.6 |
| 2 | <input type="checkbox"/> |       |            | 30.00  |       | P        | 44.4 |
| 3 | <input type="checkbox"/> |       |            | 21.11  |       | P        | 24.1 |
| 4 | <input type="checkbox"/> |       |            | 35.55  |       | P        | 37.9 |
| 5 | <input type="checkbox"/> |       |            | 53.33  |       | P        | 12.5 |
| 6 | <input type="checkbox"/> |       |            | 98.89  |       | P        | 7.8  |
| 7 | <input type="checkbox"/> |       |            | 150.00 |       | P        | 2.2  |
| 8 | <input type="checkbox"/> |       |            | 260.01 |       | P        | 9.7  |
| 9 | <input type="checkbox"/> |       |            | 34.44  |       | P        | 29.6 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 138.90 |       | P        | 24.2 |
| 2 | <input type="checkbox"/> |       |            | 97.23  |       | P        | 34.6 |
| 3 | <input type="checkbox"/> |       |            | 77.78  |       | P        | 22.3 |
| 4 | <input type="checkbox"/> |       |            | 105.56 |       | P        | 16.4 |
| 5 | <input type="checkbox"/> |       |            | 133.34 |       | P        | 53.4 |
| 6 | <input type="checkbox"/> |       |            | 119.45 |       | P        | 40.9 |
| 7 | <input type="checkbox"/> |       |            | 127.79 |       | P        | 3.8  |
| 8 | <input type="checkbox"/> |       |            | 169.45 |       | P        | 11.4 |
| 9 | <input type="checkbox"/> |       |            | 125.01 |       | P        | 17.6 |

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

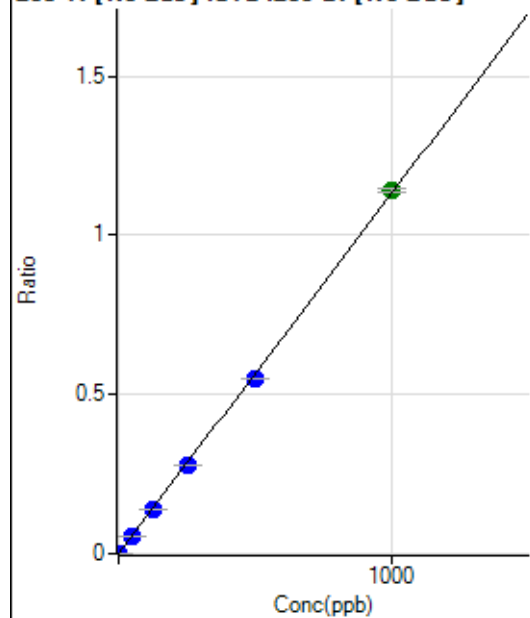
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 276.68 |       | P        | 6.0  |
| 2 | <input type="checkbox"/> |       |            | 262.23 |       | P        | 11.1 |
| 3 | <input type="checkbox"/> |       |            | 255.56 |       | P        | 17.7 |
| 4 | <input type="checkbox"/> |       |            | 277.79 |       | P        | 9.0  |
| 5 | <input type="checkbox"/> |       |            | 294.45 |       | P        | 5.4  |
| 6 | <input type="checkbox"/> |       |            | 282.23 |       | P        | 4.9  |
| 7 | <input type="checkbox"/> |       |            | 288.89 |       | P        | 25.2 |
| 8 | <input type="checkbox"/> |       |            | 310.01 |       | P        | 12.7 |
| 9 | <input type="checkbox"/> |       |            | 271.12 |       | P        | 12.6 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 127.78 |       | P        | 21.0 |
| 2 | <input type="checkbox"/> |       |            | 122.23 |       | P        | 27.6 |
| 3 | <input type="checkbox"/> |       |            | 97.23  |       | P        | 13.1 |
| 4 | <input type="checkbox"/> |       |            | 125.00 |       | P        | 35.3 |
| 5 | <input type="checkbox"/> |       |            | 97.23  |       | P        | 55.8 |
| 6 | <input type="checkbox"/> |       |            | 94.45  |       | P        | 5.1  |
| 7 | <input type="checkbox"/> |       |            | 125.01 |       | P        | 33.3 |
| 8 | <input type="checkbox"/> |       |            | 113.89 |       | P        | 22.4 |
| 9 | <input type="checkbox"/> |       |            | 88.90  |       | P        | 37.9 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS   | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|-------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 50.00 |       | P        | 37.1 |
| 2 | <input type="checkbox"/> |       |            | 53.34 |       | P        | 10.8 |
| 3 | <input type="checkbox"/> |       |            | 63.33 |       | P        | 22.9 |
| 4 | <input type="checkbox"/> |       |            | 73.34 |       | P        | 31.8 |
| 5 | <input type="checkbox"/> |       |            | 53.34 |       | P        | 33.1 |
| 6 | <input type="checkbox"/> |       |            | 75.56 |       | P        | 10.2 |
| 7 | <input type="checkbox"/> |       |            | 64.45 |       | P        | 32.9 |
| 8 | <input type="checkbox"/> |       |            | 68.89 |       | P        | 26.6 |
| 9 | <input type="checkbox"/> |       |            | 53.33 |       | P        | 22.5 |

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 500.03      | 0.0000 | P        | 15.6 |
| 2 | <input type="checkbox"/> | 0.100    | 0.097      | 1691.85     | 0.0002 | P        | 1.2  |
| 3 | <input type="checkbox"/> | 1.000    | 0.957      | 12292.29    | 0.0011 | P        | 2.3  |
| 4 | <input type="checkbox"/> | 50.000   | 48.288     | 589492.89   | 0.0547 | P        | 0.8  |
| 5 | <input type="checkbox"/> | 125.000  | 121.911    | 1478534.35  | 0.1379 | P        | 1.1  |
| 6 | <input type="checkbox"/> | 250.000  | 246.191    | 2905400.63  | 0.2784 | P        | 0.7  |
| 7 | <input type="checkbox"/> | 500.000  | 487.925    | 5689906.08  | 0.5518 | P        | 0.0  |
| 8 | <input type="checkbox"/> | 1000.000 | 1007.461   | 11454782.63 | 1.1393 | A        | 1.0  |
| 9 | <input type="checkbox"/> |          |            | 3244.98     | 0.0004 | P        | 4.0  |

$$y = 0.0011 * x + 4.6464E-005$$

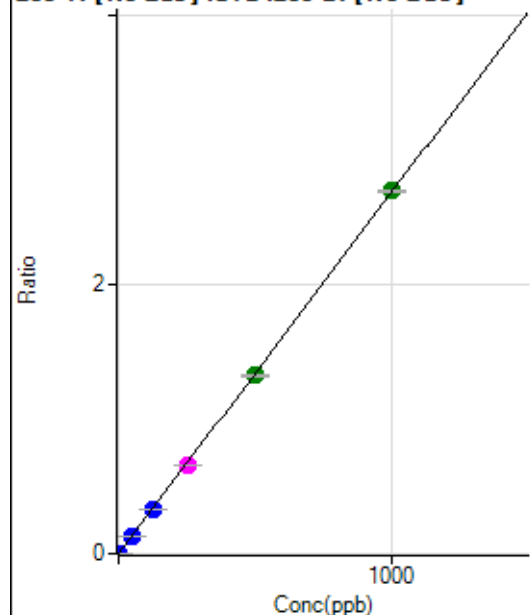
$$R = 0.9999$$

$$DL = 0.0192$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD |
|---|--------------------------|----------|------------|-------------|--------|------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 761.17      | 0.0001 | P    | 8.2 |
| 2 | <input type="checkbox"/> | 0.100    | 0.100      | 3661.77     | 0.0003 | P    | 7.9 |
| 3 | <input type="checkbox"/> | 1.000    | 0.976      | 29294.28    | 0.0027 | P    | 2.2 |
| 4 | <input type="checkbox"/> | 50.000   | 49.073     | 1421755.88  | 0.1318 | P    | 0.1 |
| 5 | <input type="checkbox"/> | 125.000  | 122.883    | 3537579.42  | 0.3299 | P    | 0.7 |
| 6 | <input type="checkbox"/> | 250.000  | 245.525    | 6878173.59  | 0.6592 | M    | 0.9 |
| 7 | <input type="checkbox"/> | 500.000  | 494.258    | 13682195.79 | 1.3269 | A    | 0.8 |
| 8 | <input type="checkbox"/> | 1000.000 | 1004.301   | 27107543.31 | 2.6961 | A    | 0.8 |
| 9 | <input type="checkbox"/> |          |            | 7738.67     | 0.0009 | P    | 5.2 |

$$y = 0.0027 * x + 7.0720E-005$$

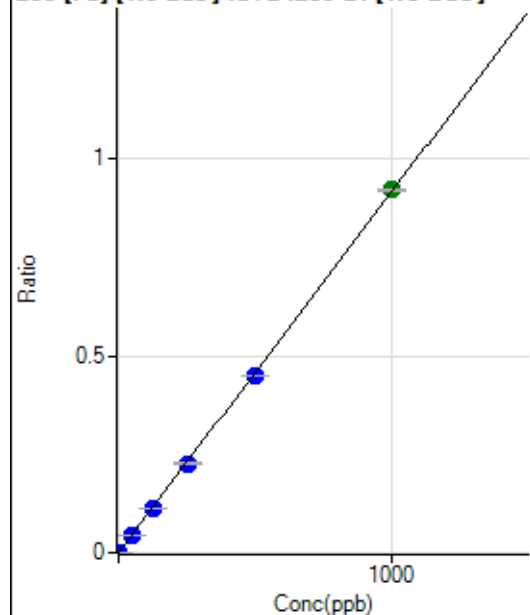
$$R = 1.0000$$

$$DL = 0.006455$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD |
|---|--------------------------|----------|------------|------------|--------|------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 1133.41    | 0.0001 | P    | 7.7 |
| 2 | <input type="checkbox"/> | 0.100    | 0.096      | 2092.82    | 0.0002 | P    | 3.7 |
| 3 | <input type="checkbox"/> | 1.000    | 0.960      | 10717.56   | 0.0010 | P    | 1.3 |
| 4 | <input type="checkbox"/> | 50.000   | 48.841     | 483519.99  | 0.0448 | P    | 0.5 |
| 5 | <input type="checkbox"/> | 125.000  | 122.333    | 1202097.18 | 0.1121 | P    | 0.7 |
| 6 | <input type="checkbox"/> | 250.000  | 247.226    | 2363136.54 | 0.2265 | P    | 1.1 |
| 7 | <input type="checkbox"/> | 500.000  | 490.160    | 4629115.50 | 0.4489 | P    | 0.7 |
| 8 | <input type="checkbox"/> | 1000.000 | 1006.005   | 9262651.71 | 0.9212 | A    | 0.3 |
| 9 | <input type="checkbox"/> |          |            | 24090.72   | 0.0028 | P    | 0.9 |

$$y = 9.1564E-004 * x + 1.0529E-004$$

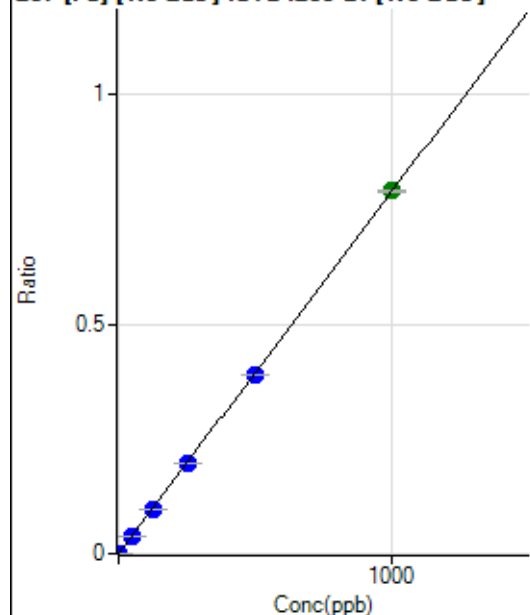
$$R = 0.9999$$

$$DL = 0.02657$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 1100.08    | 0.0001 | P   | 10.3 |
| 2 | <input type="checkbox"/> | 0.100    | 0.082      | 1805.74    | 0.0002 | P   | 4.2  |
| 3 | <input type="checkbox"/> | 1.000    | 0.975      | 9468.44    | 0.0009 | P   | 1.2  |
| 4 | <input type="checkbox"/> | 50.000   | 49.390     | 420467.72  | 0.0390 | P   | 0.9  |
| 5 | <input type="checkbox"/> | 125.000  | 122.824    | 1037678.08 | 0.0968 | P   | 1.1  |
| 6 | <input type="checkbox"/> | 250.000  | 248.948    | 2045817.00 | 0.1961 | P   | 0.6  |
| 7 | <input type="checkbox"/> | 500.000  | 494.706    | 4016508.22 | 0.3895 | P   | 0.4  |
| 8 | <input type="checkbox"/> | 1000.000 | 1003.213   | 7940900.81 | 0.7898 | A   | 0.2  |
| 9 | <input type="checkbox"/> |          |            | 21413.97   | 0.0025 | P   | 0.9  |

$$y = 7.8715E-004 * x + 1.0214E-004$$

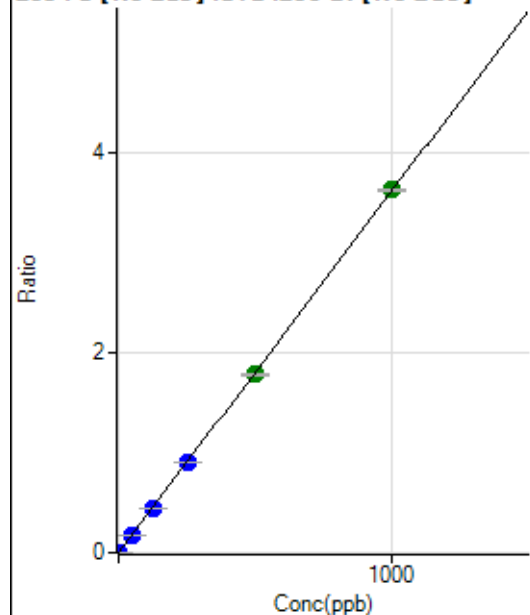
$$R = 1.0000$$

$$DL = 0.04015$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|-------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 4228.15     | 0.0004 | P   | 5.6 |
| 2 | <input type="checkbox"/> | 0.100    | 0.094      | 7915.95     | 0.0007 | P   | 2.4 |
| 3 | <input type="checkbox"/> | 1.000    | 0.964      | 42167.67    | 0.0039 | P   | 0.4 |
| 4 | <input type="checkbox"/> | 50.000   | 49.051     | 1914560.89  | 0.1775 | P   | 0.5 |
| 5 | <input type="checkbox"/> | 125.000  | 122.591    | 4749725.31  | 0.4430 | P   | 0.6 |
| 6 | <input type="checkbox"/> | 250.000  | 248.416    | 9362749.08  | 0.8973 | P   | 0.6 |
| 7 | <input type="checkbox"/> | 500.000  | 492.456    | 18338102.18 | 1.7784 | A   | 0.3 |
| 8 | <input type="checkbox"/> | 1000.000 | 1004.517   | 36469202.96 | 3.6271 | A   | 0.3 |
| 9 | <input type="checkbox"/> |          |            | 95094.04    | 0.0110 | P   | 0.6 |

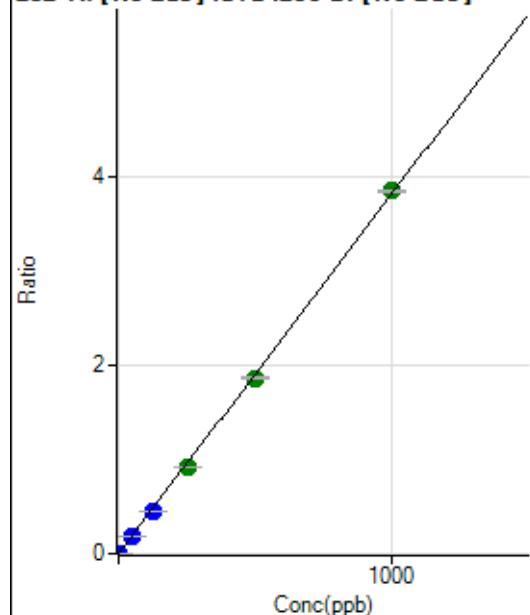
$$y = 0.0036 * x + 3.9275E-004$$

$$R = 1.0000$$

$$DL = 0.01838$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det<br>. | RSD |
|---|--------------------------|----------|------------|-------------|--------|----------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 1750.17     | 0.0002 | P        | 7.2 |
| 2 | <input type="checkbox"/> | 0.100    | 0.084      | 5214.16     | 0.0005 | P        | 1.6 |
| 3 | <input type="checkbox"/> | 1.000    | 0.859      | 37426.46    | 0.0034 | P        | 1.0 |
| 4 | <input type="checkbox"/> | 50.000   | 46.832     | 1927271.40  | 0.1787 | P        | 1.1 |
| 5 | <input type="checkbox"/> | 125.000  | 119.365    | 4880061.13  | 0.4552 | P        | 0.1 |
| 6 | <input type="checkbox"/> | 250.000  | 239.743    | 9537512.37  | 0.9140 | A        | 0.8 |
| 7 | <input type="checkbox"/> | 500.000  | 487.523    | 19163529.71 | 1.8585 | A        | 1.1 |
| 8 | <input type="checkbox"/> | 1000.000 | 1009.666   | 38697647.86 | 3.8488 | A        | 0.2 |
| 9 | <input type="checkbox"/> |          |            | 7539.43     | 0.0009 | P        | 1.5 |

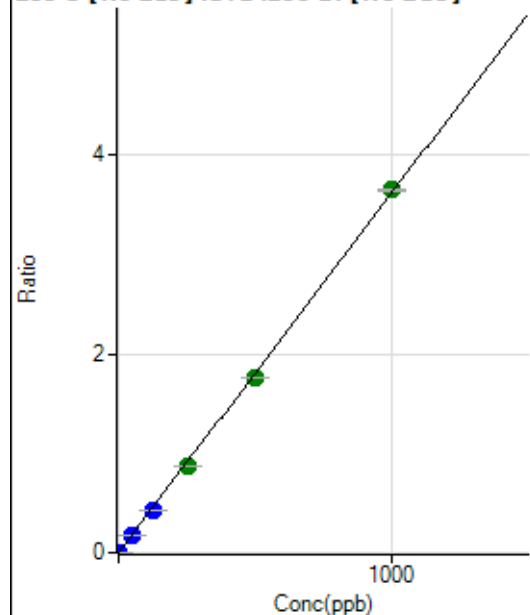
$$y = 0.0038 * x + 1.6263E-004$$

$$R = 0.9998$$

$$DL = 0.009216$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det<br>. | RSD |
|---|--------------------------|----------|------------|-------------|--------|----------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 2125.28     | 0.0002 | P        | 1.3 |
| 2 | <input type="checkbox"/> | 0.100    | 0.088      | 5604.25     | 0.0005 | P        | 2.9 |
| 3 | <input type="checkbox"/> | 1.000    | 0.916      | 38258.16    | 0.0035 | P        | 1.5 |
| 4 | <input type="checkbox"/> | 50.000   | 47.718     | 1865093.48  | 0.1729 | P        | 0.4 |
| 5 | <input type="checkbox"/> | 125.000  | 119.982    | 4658186.09  | 0.4345 | P        | 0.2 |
| 6 | <input type="checkbox"/> | 250.000  | 242.441    | 9158314.79  | 0.8777 | A        | 0.2 |
| 7 | <input type="checkbox"/> | 500.000  | 486.837    | 18171267.59 | 1.7622 | A        | 0.6 |
| 8 | <input type="checkbox"/> | 1000.000 | 1009.213   | 36727541.10 | 3.6529 | A        | 0.8 |
| 9 | <input type="checkbox"/> |          |            | 4564.91     | 0.0005 | P        | 3.6 |

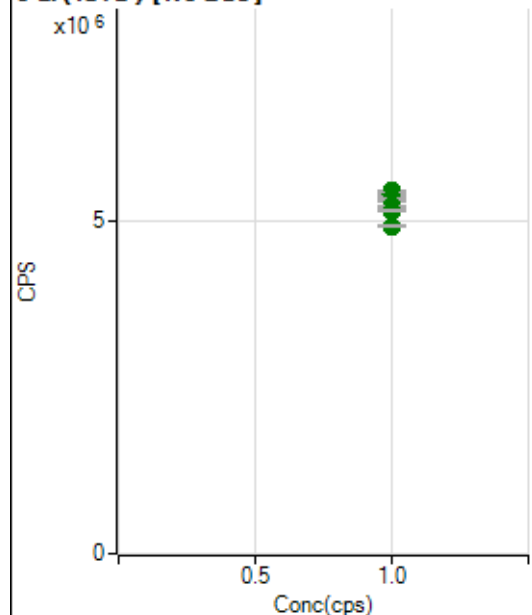
$$y = 0.0036 * x + 1.9740E-004$$

$$R = 0.9998$$

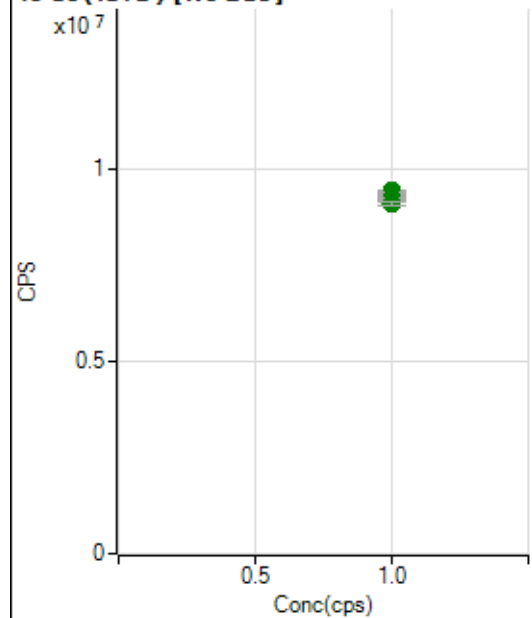
$$DL = 0.002164$$

Weight: &lt;None&gt;

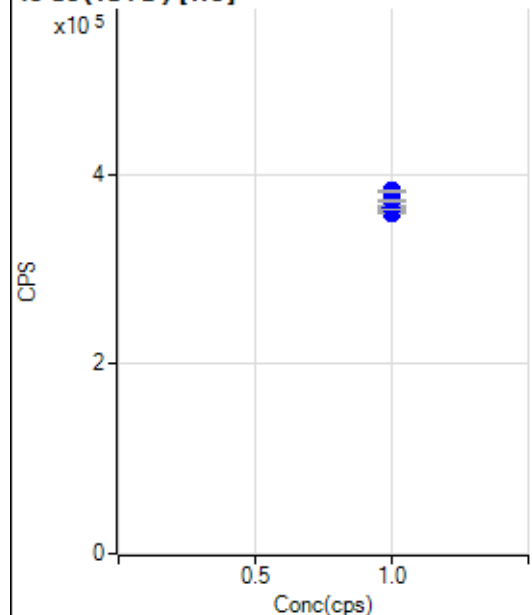
Min Conc: 0

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

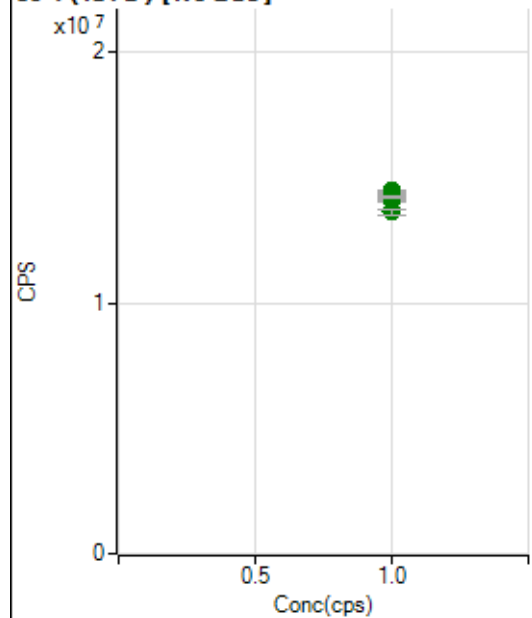
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 5301042.04 |       | A        | 0.8 |
| 2 | <input type="checkbox"/> | 1.000 |            | 5355347.49 |       | A        | 0.5 |
| 3 | <input type="checkbox"/> | 1.000 |            | 5390939.57 |       | A        | 0.2 |
| 4 | <input type="checkbox"/> | 1.000 |            | 5441483.88 |       | A        | 0.2 |
| 5 | <input type="checkbox"/> | 1.000 |            | 5406290.27 |       | A        | 1.0 |
| 6 | <input type="checkbox"/> | 1.000 |            | 5321320.62 |       | A        | 0.7 |
| 7 | <input type="checkbox"/> | 1.000 |            | 5212586.69 |       | A        | 0.5 |
| 8 | <input type="checkbox"/> | 1.000 |            | 5138339.96 |       | A        | 0.5 |
| 9 | <input type="checkbox"/> | 1.000 |            | 4917340.55 |       | A        | 0.9 |

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

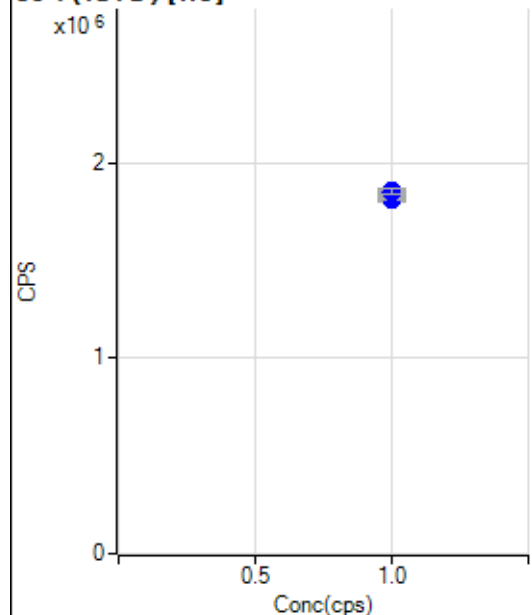
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 9431320.35 |       | A        | 0.6 |
| 2 | <input type="checkbox"/> | 1.000 |            | 9409400.56 |       | A        | 0.3 |
| 3 | <input type="checkbox"/> | 1.000 |            | 9395721.82 |       | A        | 0.3 |
| 4 | <input type="checkbox"/> | 1.000 |            | 9389581.63 |       | A        | 0.6 |
| 5 | <input type="checkbox"/> | 1.000 |            | 9264465.75 |       | A        | 0.8 |
| 6 | <input type="checkbox"/> | 1.000 |            | 9148826.25 |       | A        | 0.1 |
| 7 | <input type="checkbox"/> | 1.000 |            | 9184070.78 |       | A        | 0.1 |
| 8 | <input type="checkbox"/> | 1.000 |            | 9247030.59 |       | A        | 0.3 |
| 9 | <input type="checkbox"/> | 1.000 |            | 9097830.76 |       | A        | 1.6 |

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

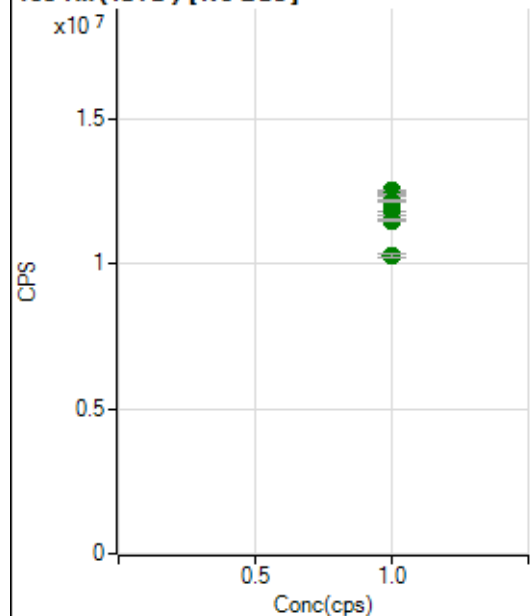
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS       | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-----------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 366447.46 |       | P        | 0.5 |
| 2 | <input type="checkbox"/> | 1.000 |            | 373875.80 |       | P        | 0.3 |
| 3 | <input type="checkbox"/> | 1.000 |            | 364233.48 |       | P        | 1.2 |
| 4 | <input type="checkbox"/> | 1.000 |            | 366523.95 |       | P        | 0.9 |
| 5 | <input type="checkbox"/> | 1.000 |            | 361067.92 |       | P        | 0.7 |
| 6 | <input type="checkbox"/> | 1.000 |            | 359862.80 |       | P        | 0.1 |
| 7 | <input type="checkbox"/> | 1.000 |            | 365614.77 |       | P        | 1.2 |
| 8 | <input type="checkbox"/> | 1.000 |            | 373198.30 |       | P        | 0.7 |
| 9 | <input type="checkbox"/> | 1.000 |            | 382962.58 |       | P        | 0.7 |

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

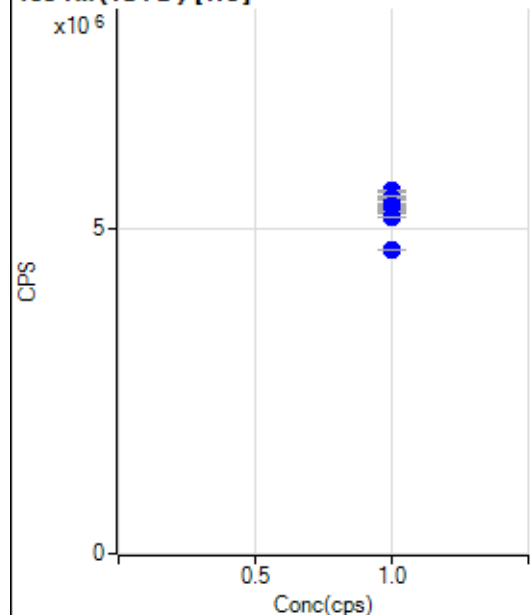
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 14378752.01 |       | A        | 1.0 |
| 2 | <input type="checkbox"/> | 1.000 |            | 14457374.92 |       | A        | 0.8 |
| 3 | <input type="checkbox"/> | 1.000 |            | 14425670.90 |       | A        | 0.7 |
| 4 | <input type="checkbox"/> | 1.000 |            | 14338866.45 |       | A        | 0.5 |
| 5 | <input type="checkbox"/> | 1.000 |            | 14278029.09 |       | A        | 0.3 |
| 6 | <input type="checkbox"/> | 1.000 |            | 14085015.62 |       | A        | 0.4 |
| 7 | <input type="checkbox"/> | 1.000 |            | 14124723.82 |       | A        | 0.4 |
| 8 | <input type="checkbox"/> | 1.000 |            | 14236181.73 |       | A        | 0.6 |
| 9 | <input type="checkbox"/> | 1.000 |            | 13616110.21 |       | A        | 1.4 |

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

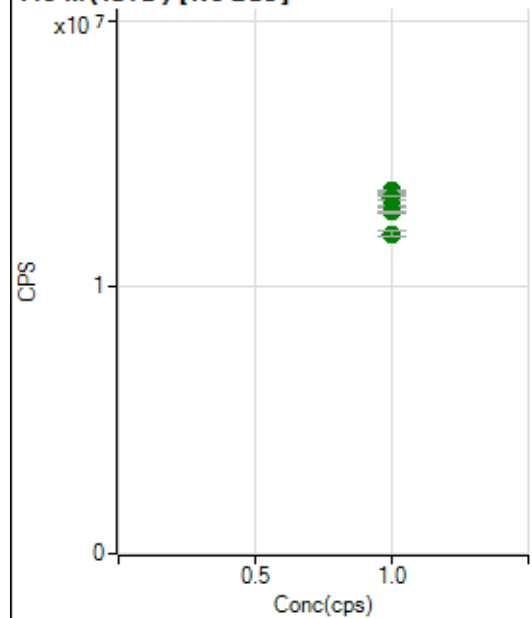
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 1838741.07 |       | P        | 0.5 |
| 2 | <input type="checkbox"/> | 1.000 |            | 1858363.41 |       | P        | 0.5 |
| 3 | <input type="checkbox"/> | 1.000 |            | 1825818.62 |       | P        | 1.1 |
| 4 | <input type="checkbox"/> | 1.000 |            | 1841500.01 |       | P        | 0.6 |
| 5 | <input type="checkbox"/> | 1.000 |            | 1811840.17 |       | P        | 0.6 |
| 6 | <input type="checkbox"/> | 1.000 |            | 1818256.54 |       | P        | 0.4 |
| 7 | <input type="checkbox"/> | 1.000 |            | 1846872.98 |       | P        | 1.1 |
| 8 | <input type="checkbox"/> | 1.000 |            | 1855114.12 |       | P        | 0.1 |
| 9 | <input type="checkbox"/> | 1.000 |            | 1856657.04 |       | P        | 1.2 |

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

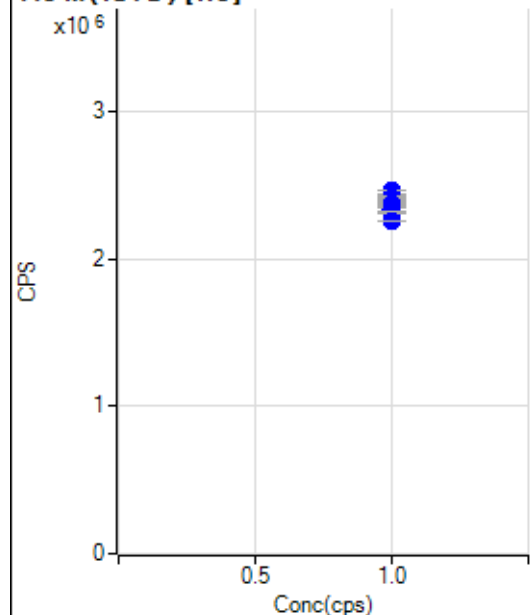
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 12365914.95 |       | A        | 0.2 |
| 2 | <input type="checkbox"/> | 1.000 |            | 12505642.73 |       | A        | 0.4 |
| 3 | <input type="checkbox"/> | 1.000 |            | 12472806.70 |       | A        | 0.6 |
| 4 | <input type="checkbox"/> | 1.000 |            | 12358943.07 |       | A        | 0.6 |
| 5 | <input type="checkbox"/> | 1.000 |            | 12148635.52 |       | A        | 0.7 |
| 6 | <input type="checkbox"/> | 1.000 |            | 11794494.10 |       | A        | 0.4 |
| 7 | <input type="checkbox"/> | 1.000 |            | 11665200.09 |       | A        | 0.3 |
| 8 | <input type="checkbox"/> | 1.000 |            | 11483006.25 |       | A        | 0.8 |
| 9 | <input type="checkbox"/> | 1.000 |            | 10296917.85 |       | A        | 1.2 |

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

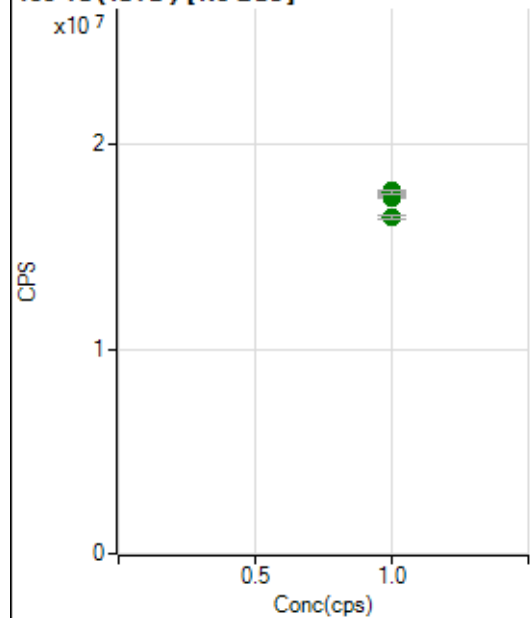
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 5445071.03 |       | P        | 0.4 |
| 2 | <input type="checkbox"/> | 1.000 |            | 5573215.20 |       | P        | 0.8 |
| 3 | <input type="checkbox"/> | 1.000 |            | 5464615.34 |       | P        | 1.1 |
| 4 | <input type="checkbox"/> | 1.000 |            | 5473452.70 |       | P        | 0.4 |
| 5 | <input type="checkbox"/> | 1.000 |            | 5350620.69 |       | P        | 0.6 |
| 6 | <input type="checkbox"/> | 1.000 |            | 5306614.64 |       | P        | 0.6 |
| 7 | <input type="checkbox"/> | 1.000 |            | 5247113.88 |       | P        | 0.5 |
| 8 | <input type="checkbox"/> | 1.000 |            | 5170584.47 |       | P        | 0.1 |
| 9 | <input type="checkbox"/> | 1.000 |            | 4670899.62 |       | P        | 0.3 |

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

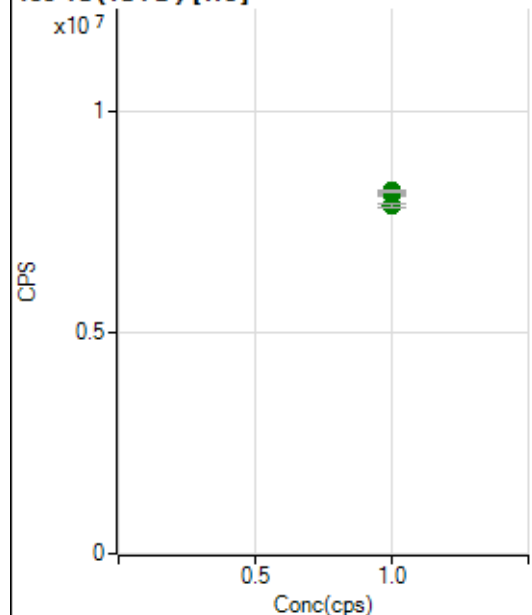
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 13430052.27 |       | A        | 0.5 |
| 2 | <input type="checkbox"/> | 1.000 |            | 13507869.88 |       | A        | 0.3 |
| 3 | <input type="checkbox"/> | 1.000 |            | 13492751.25 |       | A        | 0.4 |
| 4 | <input type="checkbox"/> | 1.000 |            | 13603237.94 |       | A        | 0.8 |
| 5 | <input type="checkbox"/> | 1.000 |            | 13324772.08 |       | A        | 1.0 |
| 6 | <input type="checkbox"/> | 1.000 |            | 13046156.54 |       | A        | 0.6 |
| 7 | <input type="checkbox"/> | 1.000 |            | 13026652.94 |       | A        | 0.4 |
| 8 | <input type="checkbox"/> | 1.000 |            | 12818284.00 |       | A        | 0.5 |
| 9 | <input type="checkbox"/> | 1.000 |            | 12002400.97 |       | A        | 1.4 |

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

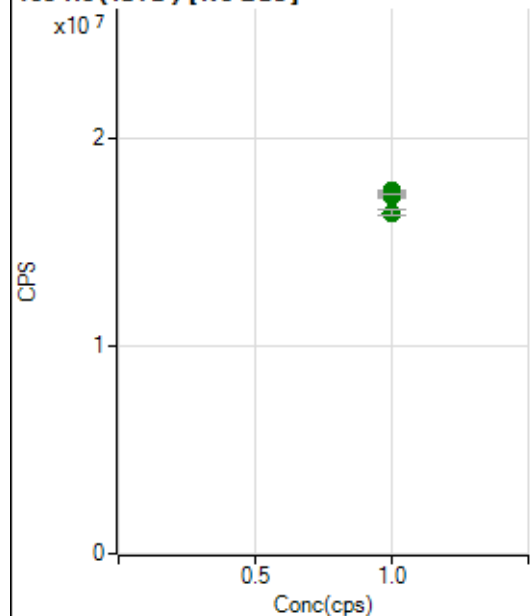
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 2396755.75 |       | P        | 0.2 |
| 2 | <input type="checkbox"/> | 1.000 |            | 2459918.01 |       | P        | 0.1 |
| 3 | <input type="checkbox"/> | 1.000 |            | 2409280.34 |       | P        | 2.1 |
| 4 | <input type="checkbox"/> | 1.000 |            | 2415320.23 |       | P        | 0.5 |
| 5 | <input type="checkbox"/> | 1.000 |            | 2367352.14 |       | P        | 0.8 |
| 6 | <input type="checkbox"/> | 1.000 |            | 2359470.03 |       | P        | 0.3 |
| 7 | <input type="checkbox"/> | 1.000 |            | 2336750.22 |       | P        | 0.8 |
| 8 | <input type="checkbox"/> | 1.000 |            | 2316687.61 |       | P        | 0.4 |
| 9 | <input type="checkbox"/> | 1.000 |            | 2258182.07 |       | P        | 0.3 |

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

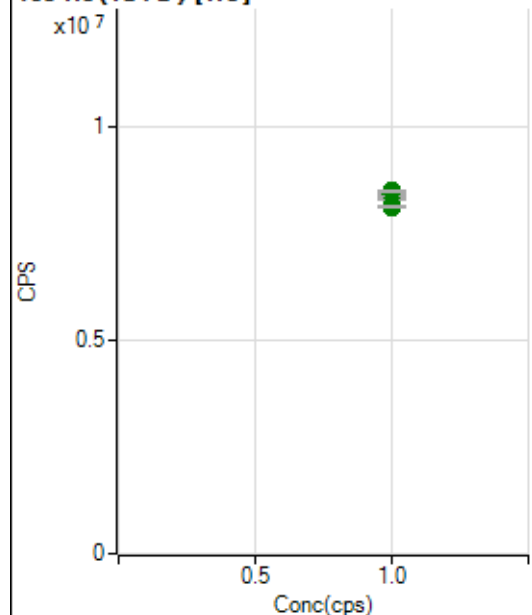
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 17610500.43 |       | A        | 0.5 |
| 2 | <input type="checkbox"/> | 1.000 |            | 17744085.99 |       | A        | 0.7 |
| 3 | <input type="checkbox"/> | 1.000 |            | 17667506.68 |       | A        | 0.8 |
| 4 | <input type="checkbox"/> | 1.000 |            | 17698710.15 |       | A        | 0.7 |
| 5 | <input type="checkbox"/> | 1.000 |            | 17642761.96 |       | A        | 0.8 |
| 6 | <input type="checkbox"/> | 1.000 |            | 17439893.07 |       | A        | 0.7 |
| 7 | <input type="checkbox"/> | 1.000 |            | 17620966.26 |       | A        | 0.7 |
| 8 | <input type="checkbox"/> | 1.000 |            | 17669456.26 |       | A        | 0.7 |
| 9 | <input type="checkbox"/> | 1.000 |            | 16492467.11 |       | A        | 1.2 |

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

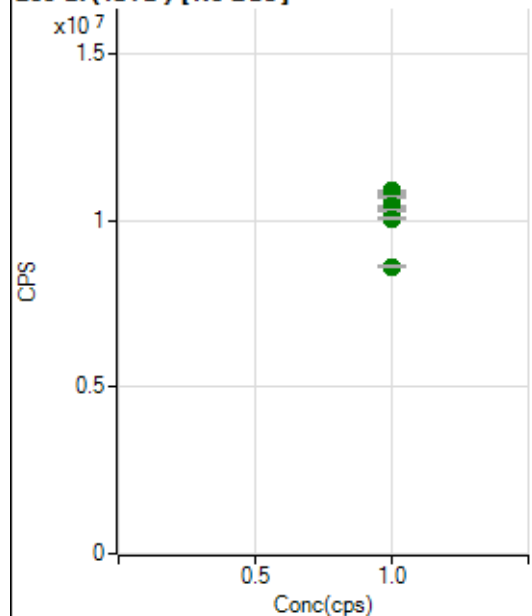
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 8193850.36 |       | A        | 0.8 |
| 2 | <input type="checkbox"/> | 1.000 |            | 8215187.65 |       | A        | 0.8 |
| 3 | <input type="checkbox"/> | 1.000 |            | 8197980.50 |       | A        | 0.3 |
| 4 | <input type="checkbox"/> | 1.000 |            | 8162421.06 |       | A        | 0.7 |
| 5 | <input type="checkbox"/> | 1.000 |            | 8123721.34 |       | A        | 0.4 |
| 6 | <input type="checkbox"/> | 1.000 |            | 8170719.67 |       | A        | 0.3 |
| 7 | <input type="checkbox"/> | 1.000 |            | 8168254.60 |       | A        | 0.3 |
| 8 | <input type="checkbox"/> | 1.000 |            | 8212653.56 |       | A        | 0.5 |
| 9 | <input type="checkbox"/> | 1.000 |            | 7879395.09 |       | A        | 0.7 |

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

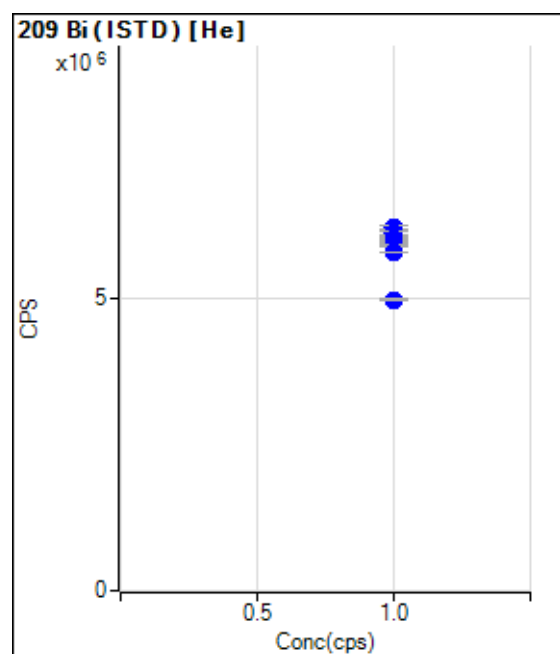
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 17360322.44 |       | A        | 0.8 |
| 2 | <input type="checkbox"/> | 1.000 |            | 17363123.65 |       | A        | 0.4 |
| 3 | <input type="checkbox"/> | 1.000 |            | 17279813.58 |       | A        | 0.9 |
| 4 | <input type="checkbox"/> | 1.000 |            | 17443949.35 |       | A        | 0.3 |
| 5 | <input type="checkbox"/> | 1.000 |            | 17441651.09 |       | A        | 0.5 |
| 6 | <input type="checkbox"/> | 1.000 |            | 17181064.45 |       | A        | 1.0 |
| 7 | <input type="checkbox"/> | 1.000 |            | 17254047.43 |       | A        | 0.1 |
| 8 | <input type="checkbox"/> | 1.000 |            | 17307572.44 |       | A        | 0.2 |
| 9 | <input type="checkbox"/> | 1.000 |            | 16411396.37 |       | A        | 1.3 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 8358705.43 |       | A        | 0.8 |
| 2 | <input type="checkbox"/> | 1.000 |            | 8437258.90 |       | A        | 0.3 |
| 3 | <input type="checkbox"/> | 1.000 |            | 8377053.76 |       | A        | 0.2 |
| 4 | <input type="checkbox"/> | 1.000 |            | 8401314.94 |       | A        | 0.4 |
| 5 | <input type="checkbox"/> | 1.000 |            | 8310643.00 |       | A        | 0.5 |
| 6 | <input type="checkbox"/> | 1.000 |            | 8437134.04 |       | A        | 0.2 |
| 7 | <input type="checkbox"/> | 1.000 |            | 8430056.26 |       | A        | 0.7 |
| 8 | <input type="checkbox"/> | 1.000 |            | 8499965.85 |       | A        | 0.2 |
| 9 | <input type="checkbox"/> | 1.000 |            | 8131189.81 |       | A        | 0.6 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 10765992.96 |       | A        | 1.0 |
| 2 | <input type="checkbox"/> | 1.000 |            | 10827275.25 |       | A        | 0.1 |
| 3 | <input type="checkbox"/> | 1.000 |            | 10889529.21 |       | A        | 0.3 |
| 4 | <input type="checkbox"/> | 1.000 |            | 10786721.65 |       | A        | 0.5 |
| 5 | <input type="checkbox"/> | 1.000 |            | 10721819.15 |       | A        | 0.5 |
| 6 | <input type="checkbox"/> | 1.000 |            | 10434776.58 |       | A        | 0.5 |
| 7 | <input type="checkbox"/> | 1.000 |            | 10311631.93 |       | A        | 0.4 |
| 8 | <input type="checkbox"/> | 1.000 |            | 10054594.16 |       | A        | 0.4 |
| 9 | <input type="checkbox"/> | 1.000 |            | 8625355.43  |       | A        | 1.1 |



|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 6027719.63 |       | P        | 0.7 |
| 2 | <input type="checkbox"/> | 1.000 |            | 6186582.06 |       | P        | 1.1 |
| 3 | <input type="checkbox"/> | 1.000 |            | 6098684.56 |       | P        | 1.3 |
| 4 | <input type="checkbox"/> | 1.000 |            | 6092995.26 |       | P        | 0.8 |
| 5 | <input type="checkbox"/> | 1.000 |            | 5997168.94 |       | P        | 0.4 |
| 6 | <input type="checkbox"/> | 1.000 |            | 5948798.80 |       | P        | 0.4 |
| 7 | <input type="checkbox"/> | 1.000 |            | 5888456.72 |       | P        | 0.5 |
| 8 | <input type="checkbox"/> | 1.000 |            | 5771059.29 |       | P        | 0.3 |
| 9 | <input type="checkbox"/> | 1.000 |            | 4967174.61 |       | P        | 0.6 |

US EPA Tune Check Sample Report

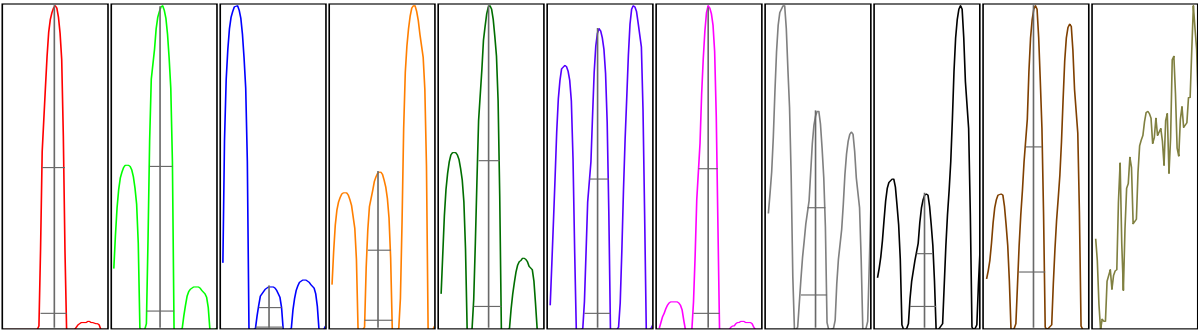
Batch Folder D:\ICP-MS Data\P711012019 MS.b  
Report Comment  
Instrument Name G8403A JP14410463

[No Gas]

| Mass | Count<br>(Mean) | RSD%<br>(Actual) | RSD%<br>(Required) | RSD%<br>(Flag) |
|------|-----------------|------------------|--------------------|----------------|
| 9    | 14763           | 0.37             | 5.00               |                |
| 24   | 136924          | 0.35             | 5.00               |                |
| 25   | 18273           | 0.37             | 5.00               |                |
| 26   | 21323           | 0.26             | 5.00               |                |
| 59   | 100941          | 0.36             | 5.00               |                |
| 113  | 13337           | 0.61             | 5.00               |                |
| 115  | 162794          | 1.21             | 5.00               |                |
| 206  | 36208           | 0.52             | 5.00               |                |
| 207  | 34583           | 0.58             | 5.00               |                |
| 208  | 78197           | 0.17             | 5.00               |                |
| 220  | 77              | 2.40             |                    |                |

| Mass | Replicate 1<br>Count | Replicate 2<br>Count | Replicate 3<br>Count | Replicate 4<br>Count | Replicate 5<br>Count |
|------|----------------------|----------------------|----------------------|----------------------|----------------------|
| 9    | 14747                | 14822                | 14743                | 14812                | 14691                |
| 24   | 137383               | 137475               | 136467               | 136464               | 136830               |
| 25   | 18385                | 18284                | 18210                | 18242                | 18242                |
| 26   | 21324                | 21375                | 21307                | 21237                | 21369                |
| 59   | 101166               | 101418               | 100667               | 100919               | 100536               |
| 113  | 13208                | 13380                | 13420                | 13364                | 13315                |
| 115  | 159997               | 162202               | 164621               | 164740               | 162409               |
| 206  | 36161                | 36458                | 36341                | 36000                | 36079                |
| 207  | 34815                | 34767                | 34533                | 34359                | 34441                |
| 208  | 78048                | 78347                | 78103                | 78175                | 78312                |
| 220  | 77                   | 79                   | 79                   | 75                   | 75                   |

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    | 24860          | 9.00             | 8.9 - 9.1          |                | 0.781                | 0.900                  |                        |
| 24   | 217479         | 23.90            | 23.9 - 24.1        |                | 0.787                | 0.900                  |                        |
| 25   | 28985          | 24.90            | 24.9 - 25.1        |                | 0.788                | 0.900                  |                        |
| 26   | 33508          | 25.90            | 25.9 - 26.1        |                | 0.788                | 0.900                  |                        |
| 59   | 168721         | 58.95            | 58.9 - 59.1        |                | 0.804                | 0.900                  |                        |
| 113  | 24836          | 112.95           | 112.9 - 113.1      |                | 0.765                | 0.900                  |                        |
| 115  | 305852         | 115.00           | 114.9 - 115.1      |                | 0.763                | 0.900                  |                        |
| 206  | 67630          | 205.95           | 205.9 - 206.1      |                | 0.767                | 0.900                  |                        |
| 207  | 61040          | 206.95           | 206.9 - 207.1      |                | 0.742                | 0.900                  |                        |
| 208  | 145396         | 207.95           | 207.9 - 208.1      |                | 0.759                | 0.900                  |                        |
| 220  |                |                  | -                  |                |                      |                        |                        |

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

Tune Parameters

## Plasma Paramters ##

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

## Lenses Parameters ##

| ParameterName | Value  | Unit | ParameterName | Value | Unit | ParameterName | Value | Unit |
|---------------|--------|------|---------------|-------|------|---------------|-------|------|
| Extract 1     | 0.0    | V    | Omega Lens    | 6.9   | V    | Deflect       | 13.8  | V    |
| Extract 2     | -125.0 | V    | Cell Entrance | -30   | V    | Plate Bias    | -35   | V    |
| Omega Bias    | -60    | 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       | 180   | V    |                       |       |       |

[He]

| Mass | Count<br>(Mean) | RSD%<br>(Actual) | RSD%<br>(Required) |
|------|-----------------|------------------|--------------------|
| 59   | 23505           | 0.62             |                    |
| 89   | 21205           | 0.40             |                    |
| 205  | 30359           | 0.67             |                    |

| Mass | Replicate 1<br>Count | Replicate 2<br>Count | Replicate 3<br>Count | Replicate 4<br>Count | Replicate 5<br>Count |
|------|----------------------|----------------------|----------------------|----------------------|----------------------|
| 59   | 23351                | 23354                | 23615                | 23538                | 23666                |
| 89   | 21279                | 21145                | 21110                | 21308                | 21184                |
| 205  | 30274                | 30495                | 30245                | 30144                | 30639                |

Integration Time [sec] = 0.1

Tune Parameters

## Plasma Paramters ##

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

## Lenses Parameters ##

| ParameterName | Value  | Unit | ParameterName | Value | Unit | ParameterName | Value | Unit |
|---------------|--------|------|---------------|-------|------|---------------|-------|------|
| Extract 1     | 0.0    | V    | Omega Lens    | 7.3   | V    | Deflect       | 2.0   | V    |
| Extract 2     | -130.0 | V    | Cell Entrance | -40   | V    | Plate Bias    | -60   | V    |
| Omega Bias    | -60    | V    | Cell Exit     | -60   | V    |               |       |      |

## Cell Parameters ##

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