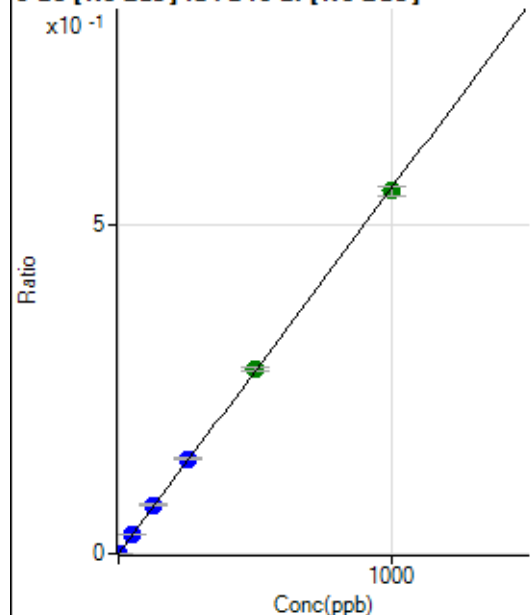


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8082922-MS.b\  
Analysis File: P8082922-MS.batch.bin  
DA Date-Time: 2022-08-29 14:52:23  
Calibration Title:  
Calibration Method: External Calibration  
VIS Interpolation Fit:

| Level | Standard Data File | Sample Name | Acq. Date-Time      |
|-------|--------------------|-------------|---------------------|
| 1     | 006CALB.d          | S00         | 2022-08-29 13:22:01 |
| 2     | 007CALS.d          | S02         | 2022-08-29 13:25:11 |
| 3     | 008CALS.d          | S03         | 2022-08-29 13:28:23 |
| 4     | 009CALS.d          | S04         | 2022-08-29 13:31:29 |
| 5     | 010CALS.d          | S05         | 2022-08-29 13:34:38 |
| 6     | 011CALS.d          | S06         | 2022-08-29 13:37:44 |
| 7     | 012CALS.d          | S07         | 2022-08-29 13:40:53 |
| 8     | 013CALS.d          | S08         | 2022-08-29 13:43:59 |

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 18.33      | 0.0000 | P    | 32.2 |
| 2 | <input type="checkbox"/> | 1.000    | 1.078      | 3343.72    | 0.0006 | P    | 0.6  |
| 3 | <input type="checkbox"/> | 50.000   | 50.953     | 162256.92  | 0.0283 | P    | 2.4  |
| 4 | <input type="checkbox"/> | 125.000  | 133.009    | 403761.55  | 0.0737 | P    | 2.6  |
| 5 | <input type="checkbox"/> | 250.000  | 259.772    | 799007.57  | 0.1440 | P    | 2.2  |
| 6 | <input type="checkbox"/> | 500.000  | 507.185    | 1563052.81 | 0.2812 | A    | 1.9  |
| 7 | <input type="checkbox"/> | 1000.000 | 992.916    | 2964157.92 | 0.5505 | A    | 2.9  |
| 8 | <input type="checkbox"/> |          |            | 432.45     | 0.0001 | P    | 4.0  |

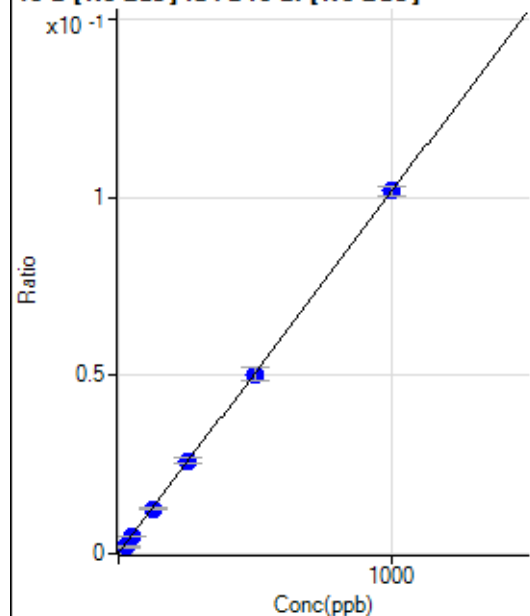
$$y = 5.5440\text{E-}004 * x + 3.2960\text{E-}006$$

$$R = 0.9999$$

$$DL = 0.00575$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS       | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-----------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 536.57    | 0.0001 | P    | 3.1  |
| 2 | <input type="checkbox"/> | 25.000   | 17.987     | 10716.50  | 0.0019 | P    | 5.5  |
| 3 | <input type="checkbox"/> | 50.000   | 47.345     | 28214.27  | 0.0049 | P    | 3.3  |
| 4 | <input type="checkbox"/> | 125.000  | 123.538    | 69271.23  | 0.0127 | P    | 5.3  |
| 5 | <input type="checkbox"/> | 250.000  | 255.550    | 144622.15 | 0.0261 | P    | 6.3  |
| 6 | <input type="checkbox"/> | 500.000  | 494.848    | 279852.45 | 0.0504 | P    | 8.1  |
| 7 | <input type="checkbox"/> | 1000.000 | 1001.679   | 549124.96 | 0.1020 | P    | 2.9  |
| 8 | <input type="checkbox"/> |          |            | 38665.97  | 0.0076 | P    | 12.1 |

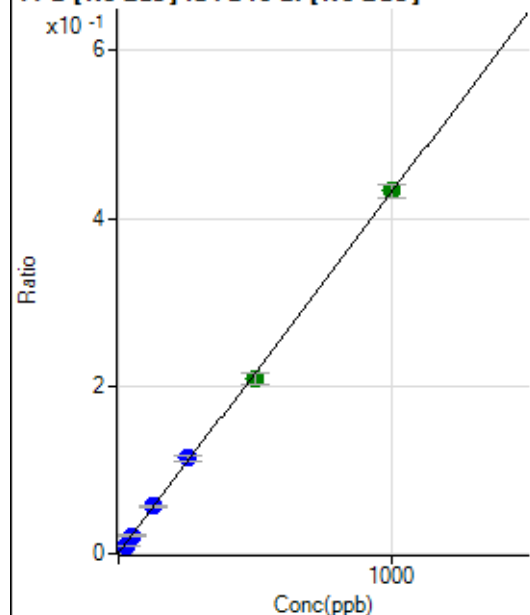
$$y = 1.0169\text{E-}004 * x + 9.6876\text{E-}005$$

$$R = 0.9999$$

$$DL = 0.08859$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 2256.40    | 0.0004 | P    | 6.0  |
| 2 | <input type="checkbox"/> | 25.000   | 18.913     | 47557.70   | 0.0085 | P    | 5.5  |
| 3 | <input type="checkbox"/> | 50.000   | 49.237     | 124088.51  | 0.0216 | P    | 3.3  |
| 4 | <input type="checkbox"/> | 125.000  | 130.772    | 310209.98  | 0.0567 | P    | 5.3  |
| 5 | <input type="checkbox"/> | 250.000  | 263.067    | 630072.94  | 0.1136 | P    | 5.8  |
| 6 | <input type="checkbox"/> | 500.000  | 483.211    | 1157272.29 | 0.2084 | A    | 6.6  |
| 7 | <input type="checkbox"/> | 1000.000 | 1004.596   | 2330642.42 | 0.4328 | A    | 3.6  |
| 8 | <input type="checkbox"/> |          |            | 173174.55  | 0.0339 | P    | 12.3 |

$$y = 4.3040E-004 * x + 4.0756E-004$$

$$R = 0.9997$$

$$DL = 0.1717$$

Weight: &lt;None&gt;

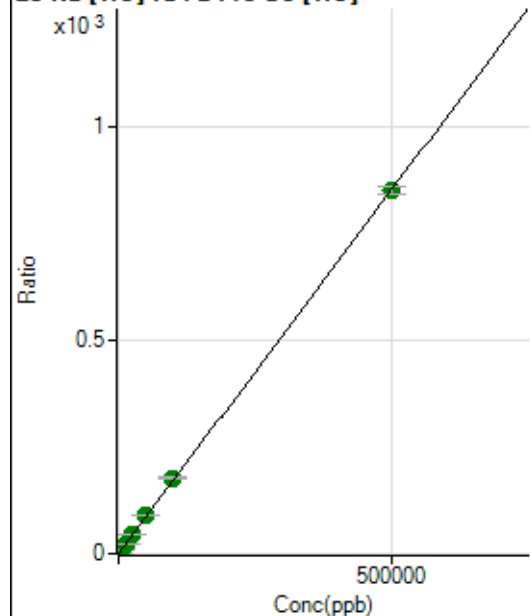
Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc. | Calc Conc. | CPS        | Ratio | Det. | RSD |
|---|--------------------------|-------|------------|------------|-------|------|-----|
| 1 | <input type="checkbox"/> |       |            | 5636572.48 |       | A    | 0.1 |
| 2 | <input type="checkbox"/> |       |            | 5644118.40 |       | A    | 1.9 |
| 3 | <input type="checkbox"/> |       |            | 5475218.22 |       | A    | 1.8 |
| 4 | <input type="checkbox"/> |       |            | 5673832.85 |       | A    | 1.2 |
| 5 | <input type="checkbox"/> |       |            | 6064877.48 |       | A    | 0.8 |
| 6 | <input type="checkbox"/> |       |            | 6408838.16 |       | A    | 1.5 |
| 7 | <input type="checkbox"/> |       |            | 7081795.21 |       | A    | 0.4 |
| 8 | <input type="checkbox"/> |       |            | 5925469.40 |       | A    | 1.1 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS      | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|----------|-------|----------|-----|
| 1 | <input type="checkbox"/> |       |            | 49288.70 |       | P        | 0.8 |
| 2 | <input type="checkbox"/> |       |            | 50484.49 |       | P        | 1.0 |
| 3 | <input type="checkbox"/> |       |            | 48790.17 |       | P        | 3.2 |
| 4 | <input type="checkbox"/> |       |            | 49734.78 |       | P        | 1.4 |
| 5 | <input type="checkbox"/> |       |            | 55388.53 |       | P        | 1.0 |
| 6 | <input type="checkbox"/> |       |            | 60963.01 |       | P        | 1.7 |
| 7 | <input type="checkbox"/> |       |            | 65862.57 |       | P        | 1.3 |
| 8 | <input type="checkbox"/> |       |            | 56972.30 |       | P        | 1.7 |

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio    | Det<br>. | RSD |
|---|--------------------------|-----------|------------|-------------|----------|----------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 17049.33    | 0.1109   | P        | 2.4 |
| 2 | <input type="checkbox"/> | 500.000   | 493.311    | 148669.10   | 0.9525   | P        | 4.5 |
| 3 | <input type="checkbox"/> | 5000.000  | 5262.763   | 1441120.49  | 9.0890   | A        | 2.0 |
| 4 | <input type="checkbox"/> | 12500.000 | 13197.512  | 3518568.35  | 22.6253  | A        | 3.0 |
| 5 | <input type="checkbox"/> | 25000.000 | 26761.271  | 7147649.81  | 45.7646  | A        | 3.6 |
| 6 | <input type="checkbox"/> | 50000.000 | 52510.623  | 14048901.88 | 89.6919  | A        | 2.2 |
| 7 | <input type="checkbox"/> | 100000.00 | 104177.47  | 27844844.37 | 177.8335 | A        | 2.4 |
| 8 | <input type="checkbox"/> | 500000.00 | 498805.32  | 128677858.4 | 851.0526 | A        | 2.3 |

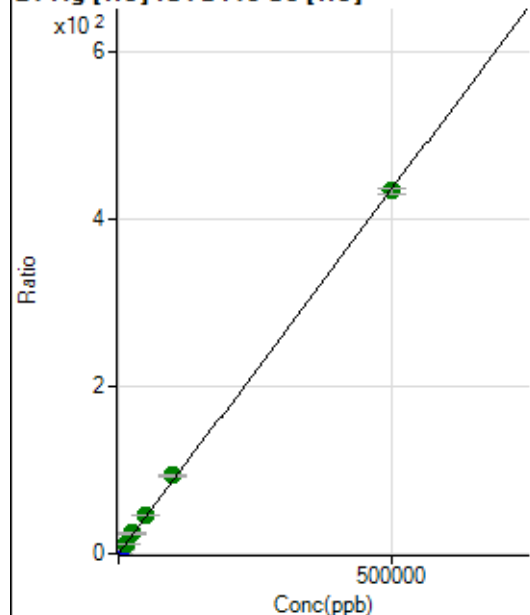
$$y = 0.0017 * x + 0.1109$$

$$R = 1.0000$$

$$DL = 4.706$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio    | Det | RSD  |
|---|--------------------------|-----------|------------|-------------|----------|-----|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 200.00      | 0.0013   | P   | 22.1 |
| 2 | <input type="checkbox"/> | 500.000   | 539.154    | 73413.80    | 0.4704   | P   | 4.9  |
| 3 | <input type="checkbox"/> | 5000.000  | 5406.129   | 745860.41   | 4.7047   | P   | 3.6  |
| 4 | <input type="checkbox"/> | 12500.000 | 13892.979  | 1879573.89  | 12.0884  | A   | 5.9  |
| 5 | <input type="checkbox"/> | 25000.000 | 28142.937  | 3824084.24  | 24.4861  | A   | 4.3  |
| 6 | <input type="checkbox"/> | 50000.000 | 53518.363  | 7294020.13  | 46.5632  | A   | 1.1  |
| 7 | <input type="checkbox"/> | 100000.00 | 107424.61  | 14631969.95 | 93.4625  | A   | 3.0  |
| 8 | <input type="checkbox"/> | 500000.00 | 497967.16  | 65504004.93 | 433.2409 | A   | 1.4  |

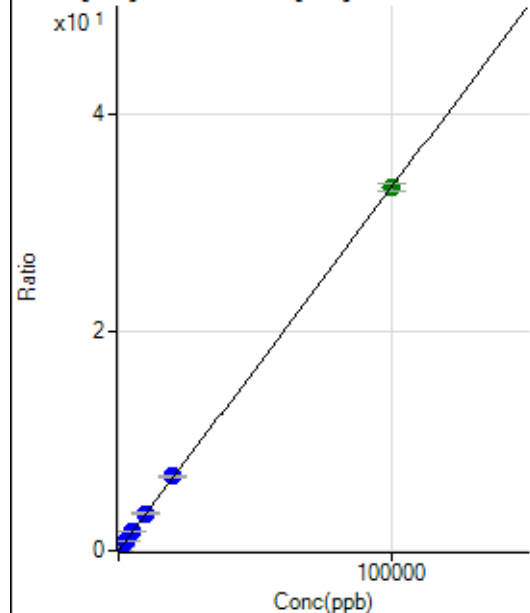
$$y = 8.7002\text{E-}004 * x + 0.0013$$

$$R = 0.9999$$

$$DL = 0.9974$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS        | Ratio   | Det | RSD  |
|---|--------------------------|-----------|------------|------------|---------|-----|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 93.74      | 0.0006  | P   | 18.8 |
| 2 | <input type="checkbox"/> | 20.000    | 20.159     | 1141.99    | 0.0073  | P   | 3.7  |
| 3 | <input type="checkbox"/> | 1000.000  | 1039.639   | 54921.95   | 0.3464  | P   | 3.5  |
| 4 | <input type="checkbox"/> | 2500.000  | 2618.032   | 135518.93  | 0.8714  | P   | 2.4  |
| 5 | <input type="checkbox"/> | 5000.000  | 5250.175   | 272824.93  | 1.7469  | P   | 3.4  |
| 6 | <input type="checkbox"/> | 10000.000 | 10308.313  | 537212.58  | 3.4293  | P   | 1.6  |
| 7 | <input type="checkbox"/> | 20000.000 | 20493.947  | 1067296.54 | 6.8171  | P   | 3.0  |
| 8 | <input type="checkbox"/> | 100000.00 | 99854.523  | 5020599.05 | 33.2132 | A   | 2.2  |

$$y = 3.3261\text{E-}004 * x + 6.1010\text{E-}004$$

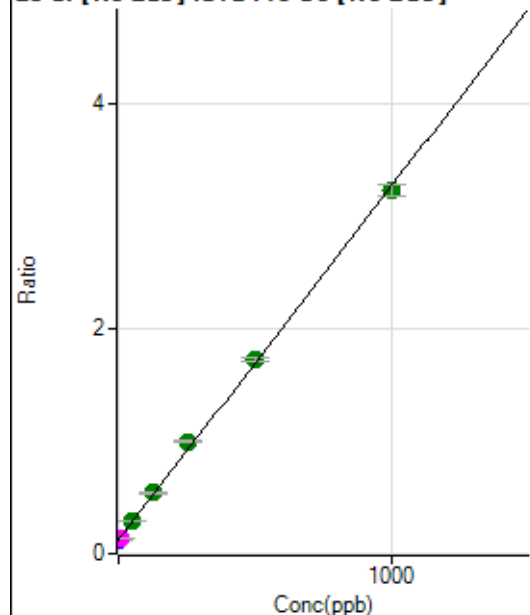
$$R = 1.0000$$

$$DL = 1.036$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD |
|---|--------------------------|----------|------------|-------------|--------|------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 794657.48   | 0.1239 | P    | 2.3 |
| 2 | <input type="checkbox"/> | 10.000   | 3.482      | 874657.61   | 0.1348 | M    | 1.4 |
| 3 | <input type="checkbox"/> | 50.000   | 52.530     | 1922263.04  | 0.2889 | A    | 2.0 |
| 4 | <input type="checkbox"/> | 125.000  | 132.254    | 3558510.11  | 0.5393 | A    | 1.5 |
| 5 | <input type="checkbox"/> | 250.000  | 278.345    | 6413852.36  | 0.9981 | A    | 0.6 |
| 6 | <input type="checkbox"/> | 500.000  | 511.629    | 11575615.97 | 1.7308 | A    | 1.8 |
| 7 | <input type="checkbox"/> | 1000.000 | 986.131    | 21330280.16 | 3.2212 | A    | 3.1 |
| 8 | <input type="checkbox"/> |          |            | 1097395.31  | 0.1748 | A    | 4.4 |

$$y = 0.0031 * x + 0.1239$$

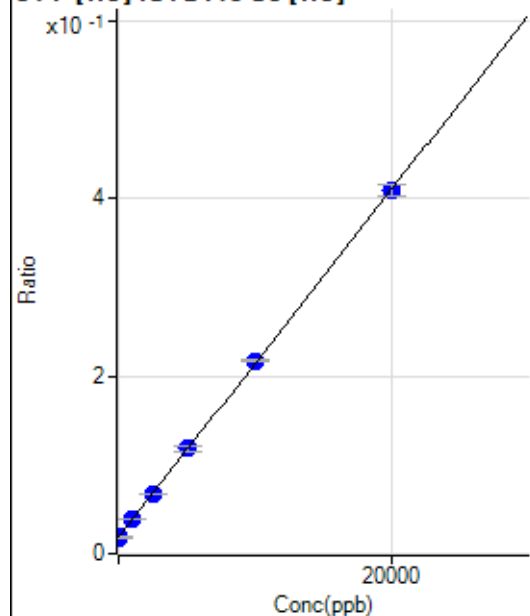
$$R = 0.9993$$

$$DL = 2.686$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS      | Ratio  | Det. | RSD  |
|---|--------------------------|-----------|------------|----------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000     | -11.128    | 2797.56  | 0.0182 | P    | 12.2 |
| 2 | <input type="checkbox"/> | 0.000     | 11.128     | 2914.27  | 0.0187 | P    | 6.6  |
| 3 | <input type="checkbox"/> | 1000.000  | 1041.134   | 6154.28  | 0.0388 | P    | 3.6  |
| 4 | <input type="checkbox"/> | 2500.000  | 2486.381   | 10437.35 | 0.0671 | P    | 0.1  |
| 5 | <input type="checkbox"/> | 5000.000  | 5092.684   | 18442.75 | 0.1181 | P    | 4.5  |
| 6 | <input type="checkbox"/> | 10000.000 | 10126.443  | 33929.37 | 0.2166 | P    | 1.2  |
| 7 | <input type="checkbox"/> | 20000.000 | 19913.253  | 63883.26 | 0.4081 | P    | 3.3  |
| 8 | <input type="checkbox"/> |           |            | 2680.87  | 0.0177 | P    | 9.4  |

$$y = 1.9567E-005 * x + 0.0185$$

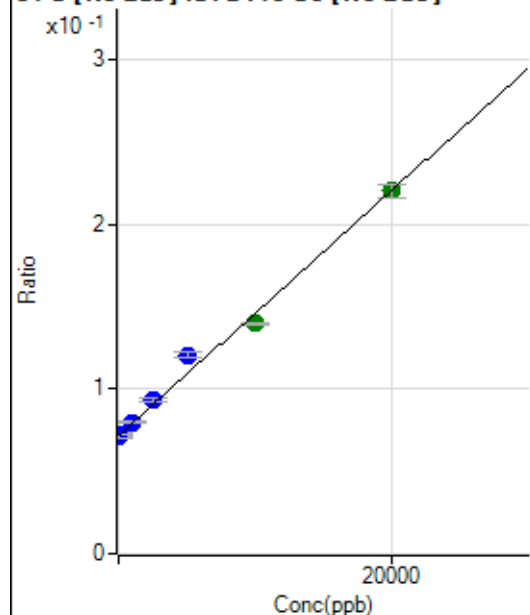
$$R = 1.0000$$

$$DL = 264.5$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS        | Ratio  | Det. | RSD |
|---|--------------------------|-----------|------------|------------|--------|------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 51.657     | 463479.67  | 0.0723 | P    | 3.7 |
| 2 | <input type="checkbox"/> | 0.000     | -51.657    | 463809.91  | 0.0715 | P    | 2.4 |
| 3 | <input type="checkbox"/> | 1000.000  | 1035.175   | 529592.89  | 0.0796 | P    | 1.3 |
| 4 | <input type="checkbox"/> | 2500.000  | 2917.324   | 617412.37  | 0.0936 | P    | 3.0 |
| 5 | <input type="checkbox"/> | 5000.000  | 6573.987   | 775996.25  | 0.1208 | P    | 2.4 |
| 6 | <input type="checkbox"/> | 10000.000 | 9168.337   | 937000.31  | 0.1401 | A    | 0.7 |
| 7 | <input type="checkbox"/> | 20000.000 | 19968.410  | 1459540.99 | 0.2204 | A    | 3.8 |
| 8 | <input type="checkbox"/> |           |            | 382039.78  | 0.0609 | P    | 1.3 |

$$y = 7.4396E-006 * x + 0.0719$$

$$R = 0.9951$$

$$DL = 883.9$$

Weight: &lt;None&gt;

Min Conc: 0

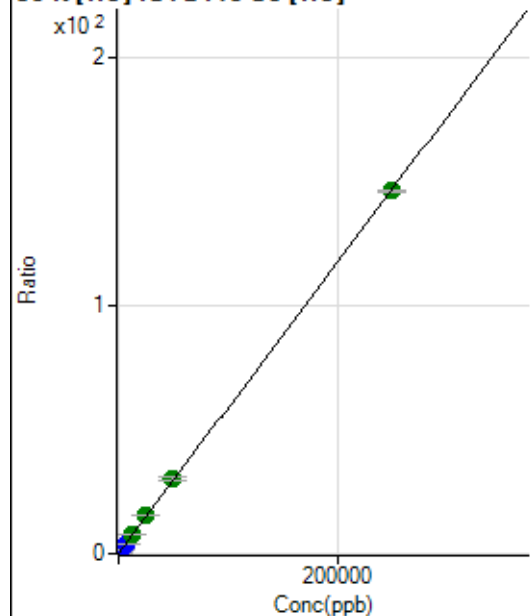
35 Cl [No Gas] No available calibration points



|   | R <sub>j</sub><br>ct     | Conc. | Calc Conc. | CPS       | Ratio | Det. | RSD |
|---|--------------------------|-------|------------|-----------|-------|------|-----|
| 1 | <input type="checkbox"/> |       |            | 243013.02 |       | P    | 0.8 |
| 2 | <input type="checkbox"/> |       |            | 242612.59 |       | P    | 0.8 |
| 3 | <input type="checkbox"/> |       |            | 255603.20 |       | P    | 0.5 |
| 4 | <input type="checkbox"/> |       |            | 264246.00 |       | P    | 1.1 |
| 5 | <input type="checkbox"/> |       |            | 264805.02 |       | P    | 0.3 |
| 6 | <input type="checkbox"/> |       |            | 257551.47 |       | P    | 0.4 |
| 7 | <input type="checkbox"/> |       |            | 258281.95 |       | P    | 0.5 |
| 8 | <input type="checkbox"/> |       |            | 246111.05 |       | P    | 0.2 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS     | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|---------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 1233.42 |       | P        | 3.6  |
| 2 | <input type="checkbox"/> |       |            | 1208.42 |       | P        | 12.8 |
| 3 | <input type="checkbox"/> |       |            | 1313.98 |       | P        | 4.1  |
| 4 | <input type="checkbox"/> |       |            | 1489.01 |       | P        | 4.6  |
| 5 | <input type="checkbox"/> |       |            | 1338.99 |       | P        | 7.7  |
| 6 | <input type="checkbox"/> |       |            | 1230.64 |       | P        | 13.6 |
| 7 | <input type="checkbox"/> |       |            | 1205.64 |       | P        | 8.6  |
| 8 | <input type="checkbox"/> |       |            | 1241.76 |       | P        | 8.1  |

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio    | Det<br>. | RSD |
|---|--------------------------|-----------|------------|-------------|----------|----------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 13765.26    | 0.0896   | P        | 3.4 |
| 2 | <input type="checkbox"/> | 500.000   | 496.710    | 59442.63    | 0.3809   | P        | 5.1 |
| 3 | <input type="checkbox"/> | 2500.000  | 2585.749   | 254649.87   | 1.6059   | P        | 2.6 |
| 4 | <input type="checkbox"/> | 6250.000  | 6468.916   | 603917.69   | 3.8831   | P        | 2.2 |
| 5 | <input type="checkbox"/> | 12500.000 | 13454.494  | 1246511.76  | 7.9796   | A        | 0.5 |
| 6 | <input type="checkbox"/> | 25000.000 | 26220.971  | 2422827.61  | 15.4661  | A        | 2.4 |
| 7 | <input type="checkbox"/> | 50000.000 | 51579.024  | 4747787.78  | 30.3365  | A        | 4.6 |
| 8 | <input type="checkbox"/> | 250000.00 | 249508.05  | 22135189.56 | 146.4059 | A        | 0.8 |

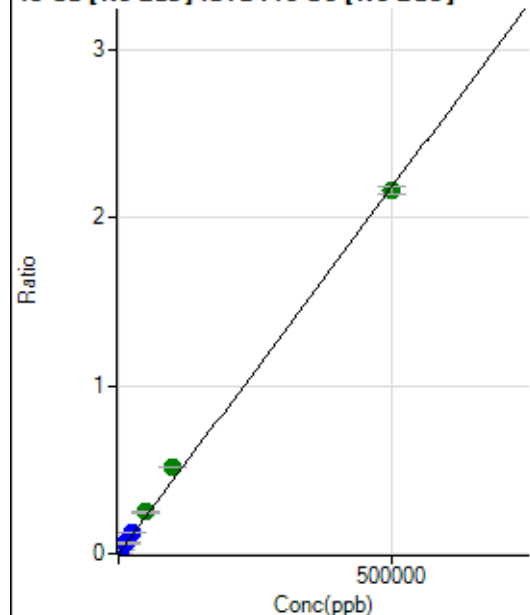
$$y = 5.8642\text{E-}004 * x + 0.0896$$

$$R = 1.0000$$

$$DL = 15.69$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio  | Det. | RSD |
|---|--------------------------|-----------|------------|-------------|--------|------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 270.39      | 0.0000 | P    | 8.1 |
| 2 | <input type="checkbox"/> | 500.000   | 497.624    | 14341.61    | 0.0022 | P    | 1.8 |
| 3 | <input type="checkbox"/> | 5000.000  | 5730.183   | 166402.95   | 0.0250 | P    | 2.5 |
| 4 | <input type="checkbox"/> | 12500.000 | 14520.128  | 417658.14   | 0.0633 | P    | 2.5 |
| 5 | <input type="checkbox"/> | 25000.000 | 29278.705  | 819871.44   | 0.1276 | P    | 1.6 |
| 6 | <input type="checkbox"/> | 50000.000 | 57041.091  | 1662049.57  | 0.2485 | A    | 2.6 |
| 7 | <input type="checkbox"/> | 100000.00 | 118004.16  | 3405382.20  | 0.5141 | A    | 1.3 |
| 8 | <input type="checkbox"/> | 500000.00 | 495423.32  | 13549670.69 | 2.1583 | A    | 2.3 |

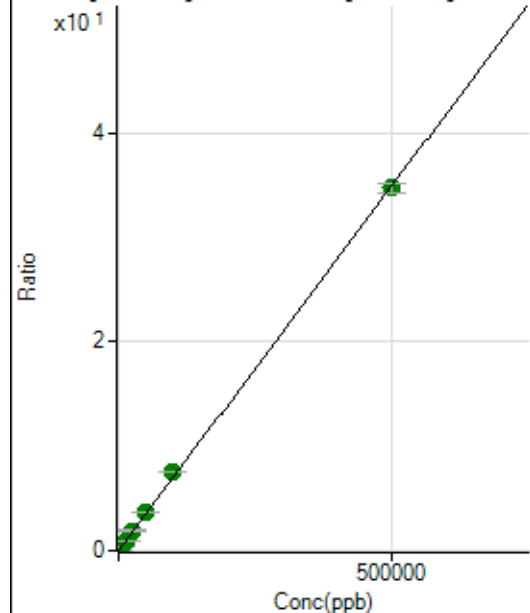
$$y = 4.3564\text{E-}006 * x + 4.2090\text{E-}005$$

$$R = 0.9993$$

$$DL = 2.336$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio   | Det. | RSD |
|---|--------------------------|-----------|------------|-------------|---------|------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 10798.14    | 0.0017  | P    | 3.5 |
| 2 | <input type="checkbox"/> | 500.000   | 492.977    | 234270.62   | 0.0361  | P    | 2.0 |
| 3 | <input type="checkbox"/> | 5000.000  | 5438.038   | 2538144.82  | 0.3814  | A    | 1.8 |
| 4 | <input type="checkbox"/> | 12500.000 | 13748.826  | 6344936.68  | 0.9616  | A    | 2.5 |
| 5 | <input type="checkbox"/> | 25000.000 | 27664.731  | 12420585.36 | 1.9332  | A    | 3.0 |
| 6 | <input type="checkbox"/> | 50000.000 | 52673.994  | 24614095.57 | 3.6794  | A    | 0.7 |
| 7 | <input type="checkbox"/> | 100000.00 | 108291.70  | 50100760.82 | 7.5626  | A    | 0.9 |
| 8 | <input type="checkbox"/> | 500000.00 | 497905.43  | 218248885.9 | 34.7654 | A    | 2.3 |

$$y = 6.9820\text{E-}005 * x + 0.0017$$

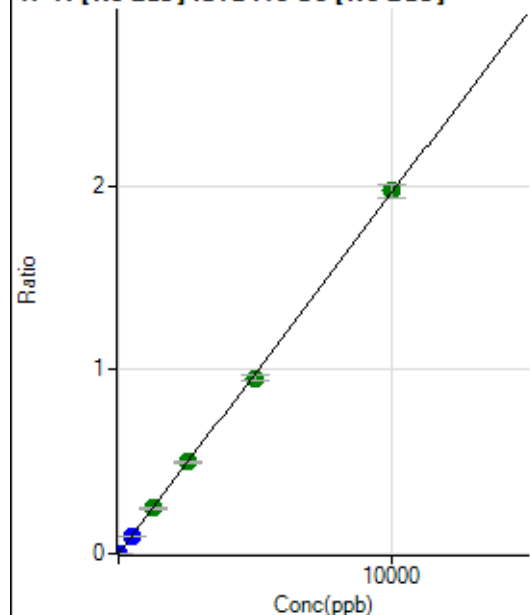
$$R = 0.9998$$

$$DL = 2.533$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio  | Det | RSD  |
|---|--------------------------|-----------|------------|-------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 233.34      | 0.0000 | P   | 37.5 |
| 2 | <input type="checkbox"/> | 5.000     | 5.116      | 6740.67     | 0.0010 | P   | 3.9  |
| 3 | <input type="checkbox"/> | 500.000   | 497.676    | 649385.64   | 0.0976 | P   | 1.7  |
| 4 | <input type="checkbox"/> | 1250.000  | 1257.426   | 1626567.65  | 0.2465 | A   | 2.1  |
| 5 | <input type="checkbox"/> | 2500.000  | 2554.539   | 3217020.51  | 0.5007 | A   | 2.3  |
| 6 | <input type="checkbox"/> | 5000.000  | 4863.046   | 6373722.02  | 0.9532 | A   | 3.0  |
| 7 | <input type="checkbox"/> | 10000.000 | 10054.030  | 13047435.36 | 1.9705 | A   | 3.7  |
| 8 | <input type="checkbox"/> |           |            | 1702.94     | 0.0003 | P   | 15.3 |

$$y = 1.9599\text{E-}004 * x + 3.6306\text{E-}005$$

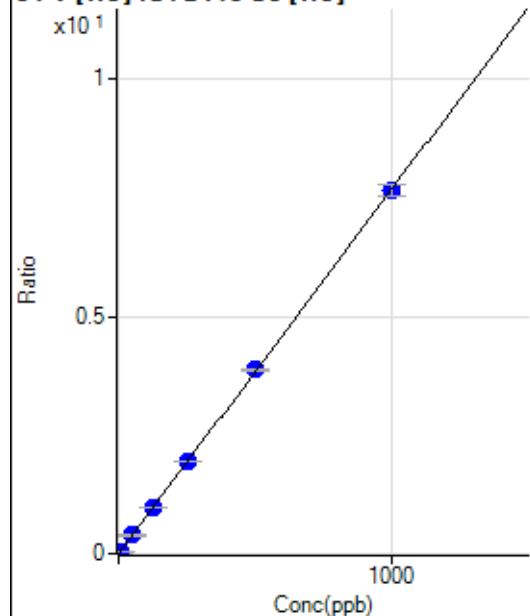
$$R = 0.9998$$

$$DL = 0.2084$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 3.33       | 0.0000 | P   | 3.5  |
| 2 | <input type="checkbox"/> | 5.000    | 4.971      | 5955.74    | 0.0382 | P   | 4.9  |
| 3 | <input type="checkbox"/> | 50.000   | 50.515     | 61457.05   | 0.3876 | P   | 1.4  |
| 4 | <input type="checkbox"/> | 125.000  | 127.757    | 152453.27  | 0.9802 | P   | 1.9  |
| 5 | <input type="checkbox"/> | 250.000  | 253.386    | 303670.26  | 1.9441 | P   | 2.0  |
| 6 | <input type="checkbox"/> | 500.000  | 504.752    | 606680.79  | 3.8727 | P   | 0.7  |
| 7 | <input type="checkbox"/> | 1000.000 | 996.407    | 1196837.27 | 7.6449 | P   | 3.2  |
| 8 | <input type="checkbox"/> |          |            | 306.67     | 0.0020 | P   | 10.2 |

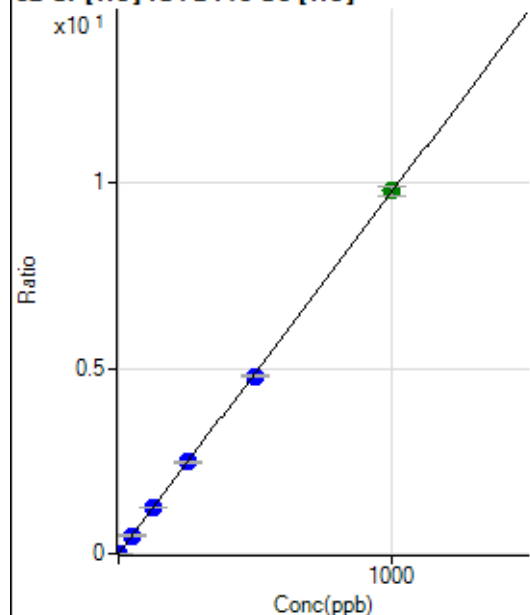
$$y = 0.0077 * x + 2.1672\text{E-}005$$

$$R = 1.0000$$

$$DL = 0.0002971$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 512.23     | 0.0033 | P   | 5.0 |
| 2 | <input type="checkbox"/> | 2.000    | 1.955      | 3490.46    | 0.0224 | P   | 6.9 |
| 3 | <input type="checkbox"/> | 50.000   | 50.111     | 77883.29   | 0.4912 | P   | 2.1 |
| 4 | <input type="checkbox"/> | 125.000  | 127.471    | 193543.49  | 1.2444 | P   | 2.1 |
| 5 | <input type="checkbox"/> | 250.000  | 252.588    | 384625.59  | 2.4626 | P   | 2.6 |
| 6 | <input type="checkbox"/> | 500.000  | 490.385    | 748476.25  | 4.7778 | P   | 1.1 |
| 7 | <input type="checkbox"/> | 1000.000 | 1003.846   | 1530923.99 | 9.7770 | A   | 2.5 |
| 8 | <input type="checkbox"/> |          |            | 4259.56    | 0.0282 | P   | 1.5 |

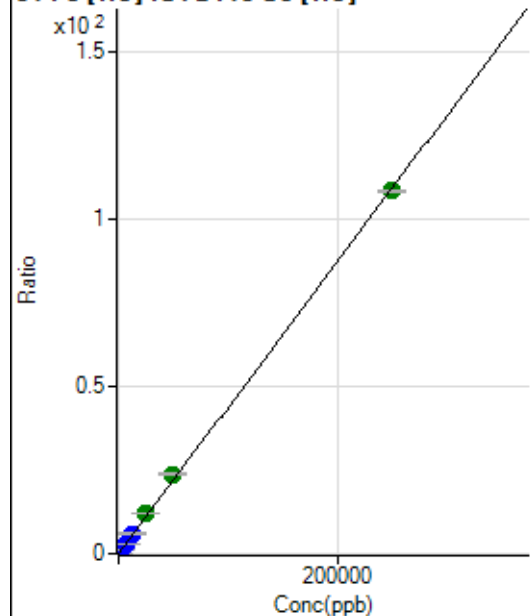
$$y = 0.0097 * x + 0.0033$$

$$R = 0.9999$$

$$DL = 0.05129$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio    | Det | RSD  |
|---|--------------------------|-----------|------------|-------------|----------|-----|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 601.88      | 0.0039   | P   | 10.9 |
| 2 | <input type="checkbox"/> | 50.000    | 51.732     | 4128.44     | 0.0264   | P   | 4.6  |
| 3 | <input type="checkbox"/> | 2500.000  | 2692.980   | 186511.77   | 1.1764   | P   | 2.5  |
| 4 | <input type="checkbox"/> | 6250.000  | 6828.388   | 463024.42   | 2.9769   | P   | 1.2  |
| 5 | <input type="checkbox"/> | 12500.000 | 13620.054  | 926711.39   | 5.9338   | P   | 3.6  |
| 6 | <input type="checkbox"/> | 25000.000 | 27625.133  | 1884709.43  | 12.0314  | A   | 1.6  |
| 7 | <input type="checkbox"/> | 50000.000 | 54397.242  | 3708420.77  | 23.6874  | A   | 3.2  |
| 8 | <input type="checkbox"/> | 250000.00 | 248785.64  | 16375824.90 | 108.3203 | A   | 0.7  |

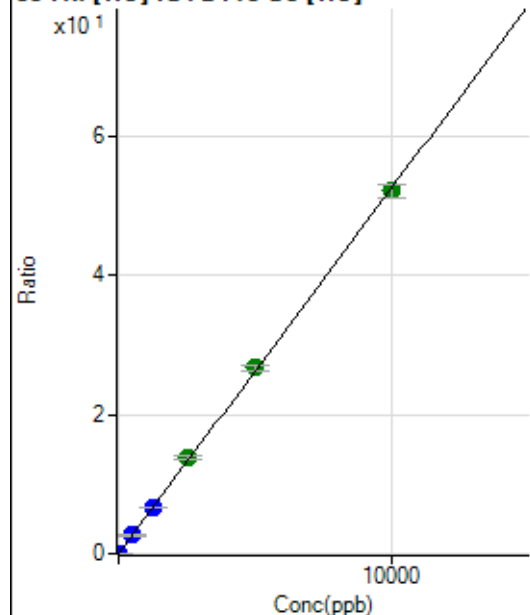
$$y = 4.3538E-004 * x + 0.0039$$

$$R = 0.9998$$

$$DL = 2.938$$

Weight: &lt;None&gt;

Min Conc: 0

**<sup>55</sup>Mn [He] ISTD:45 Sc [He]**

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS        | Ratio   | Det. | RSD  |
|---|--------------------------|-----------|------------|------------|---------|------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 50.00      | 0.0003  | P    | 31.7 |
| 2 | <input type="checkbox"/> | 1.000     | 1.064      | 922.26     | 0.0059  | P    | 5.8  |
| 3 | <input type="checkbox"/> | 500.000   | 500.500    | 416597.66  | 2.6274  | P    | 1.6  |
| 4 | <input type="checkbox"/> | 1250.000  | 1264.656   | 1032408.57 | 6.6384  | P    | 2.5  |
| 5 | <input type="checkbox"/> | 2500.000  | 2613.316   | 2142317.00 | 13.7173 | A    | 3.6  |
| 6 | <input type="checkbox"/> | 5000.000  | 5082.332   | 4178861.29 | 26.6769 | A    | 3.7  |
| 7 | <input type="checkbox"/> | 10000.000 | 9928.648   | 8159100.71 | 52.1146 | A    | 3.5  |
| 8 | <input type="checkbox"/> |           |            | 4404.06    | 0.0291  | P    | 3.4  |

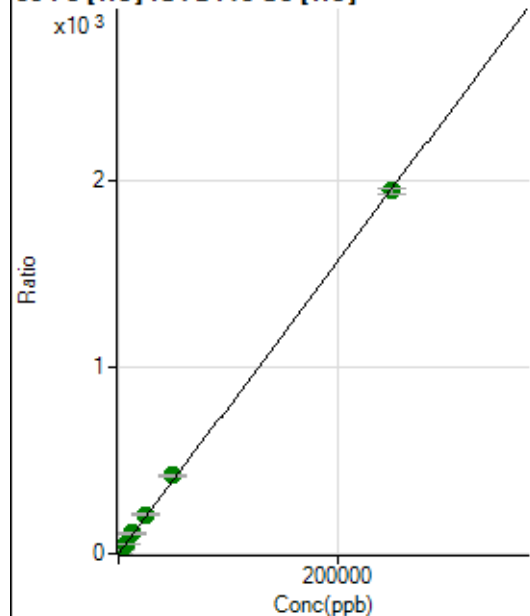
$$y = 0.0052 * x + 3.2443E-004$$

$$R = 0.9999$$

$$DL = 0.05872$$

Weight: &lt;None&gt;

Min Conc: 0

**<sup>56</sup>Fe [He] ISTD:45 Sc [He]**

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio     | Det. | RSD |
|---|--------------------------|-----------|------------|-------------|-----------|------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 3141.15     | 0.0205    | P    | 6.8 |
| 2 | <input type="checkbox"/> | 50.000    | 52.726     | 67665.88    | 0.4334    | P    | 2.7 |
| 3 | <input type="checkbox"/> | 2500.000  | 2784.483   | 3461350.02  | 21.8270   | A    | 0.9 |
| 4 | <input type="checkbox"/> | 6250.000  | 6990.703   | 8517130.52  | 54.7678   | A    | 3.6 |
| 5 | <input type="checkbox"/> | 12500.000 | 13920.030  | 17027989.73 | 109.0345  | A    | 3.9 |
| 6 | <input type="checkbox"/> | 25000.000 | 26949.181  | 33066250.04 | 211.0717  | A    | 2.5 |
| 7 | <input type="checkbox"/> | 50000.000 | 53739.200  | 65916368.60 | 420.8765  | A    | 2.0 |
| 8 | <input type="checkbox"/> | 250000.00 | 248964.87  | 294781532.5 | 1,949.777 | A    | 1.5 |

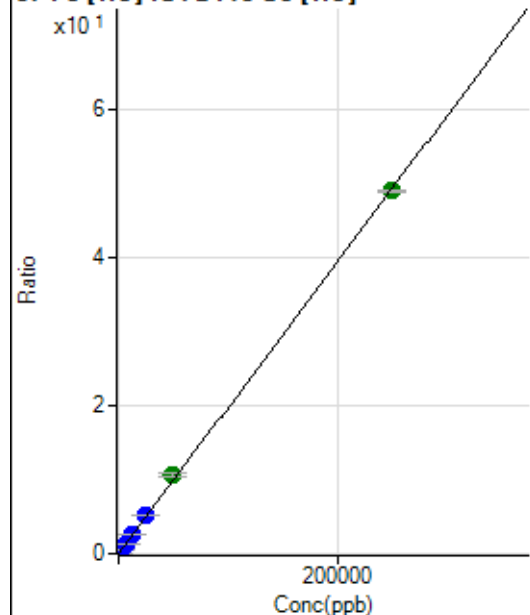
$$y = 0.0078 * x + 0.0205$$

$$R = 0.9999$$

$$DL = 0.5312$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS        | Ratio   | Det | RSD  |
|---|--------------------------|-----------|------------|------------|---------|-----|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 103.71     | 0.0007  | P   | 23.9 |
| 2 | <input type="checkbox"/> | 50.000    | 54.198     | 1770.51    | 0.0113  | P   | 5.7  |
| 3 | <input type="checkbox"/> | 2500.000  | 2655.074   | 82909.60   | 0.5229  | P   | 1.8  |
| 4 | <input type="checkbox"/> | 6250.000  | 6643.083   | 203303.26  | 1.3073  | P   | 3.5  |
| 5 | <input type="checkbox"/> | 12500.000 | 13308.395  | 408936.10  | 2.6184  | P   | 3.4  |
| 6 | <input type="checkbox"/> | 25000.000 | 26115.637  | 804768.21  | 5.1375  | P   | 2.2  |
| 7 | <input type="checkbox"/> | 50000.000 | 54089.368  | 1665756.98 | 10.6397 | A   | 3.0  |
| 8 | <input type="checkbox"/> | 250000.00 | 249018.76  | 7405255.83 | 48.9811 | A   | 0.6  |

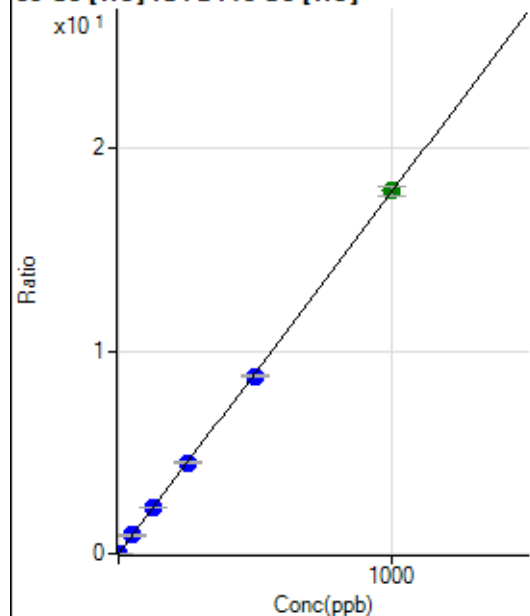
$$y = 1.9669\text{E-}004 * x + 6.7802\text{E-}004$$

$$R = 0.9999$$

$$DL = 2.471$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio   | Det | RSD  |
|---|--------------------------|----------|------------|------------|---------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 38.89      | 0.0003  | P   | 16.4 |
| 2 | <input type="checkbox"/> | 1.000    | 1.028      | 2900.33    | 0.0186  | P   | 3.6  |
| 3 | <input type="checkbox"/> | 50.000   | 51.016     | 144259.46  | 0.9099  | P   | 2.8  |
| 4 | <input type="checkbox"/> | 125.000  | 127.289    | 353040.01  | 2.2700  | P   | 2.2  |
| 5 | <input type="checkbox"/> | 250.000  | 251.722    | 701075.19  | 4.4888  | P   | 2.9  |
| 6 | <input type="checkbox"/> | 500.000  | 491.382    | 1372609.98 | 8.7623  | P   | 1.1  |
| 7 | <input type="checkbox"/> | 1000.000 | 1003.542   | 2801850.34 | 17.8948 | A   | 2.4  |
| 8 | <input type="checkbox"/> |          |            | 9809.04    | 0.0649  | P   | 1.6  |

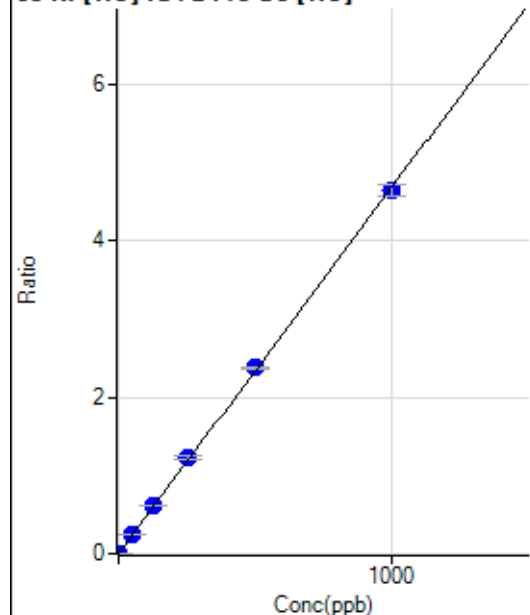
$$y = 0.0178 * x + 2.5381\text{E-}004$$

$$R = 0.9999$$

$$DL = 0.006988$$

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      | 56.67     | 0.0004 | P        | 20.8 |
| 2 | <input type="checkbox"/> | 1.000    | 1.078      | 843.36    | 0.0054 | P        | 7.4  |
| 3 | <input type="checkbox"/> | 50.000   | 52.986     | 39296.53  | 0.2479 | P        | 2.2  |
| 4 | <input type="checkbox"/> | 125.000  | 131.718    | 95746.71  | 0.6156 | P        | 1.7  |
| 5 | <input type="checkbox"/> | 250.000  | 262.080    | 191238.14 | 1.2245 | P        | 3.9  |
| 6 | <input type="checkbox"/> | 500.000  | 509.117    | 372580.40 | 2.3785 | P        | 1.1  |
| 7 | <input type="checkbox"/> | 1000.000 | 991.432    | 725047.53 | 4.6313 | P        | 3.2  |
| 8 | <input type="checkbox"/> |          |            | 2749.18   | 0.0182 | P        | 2.6  |

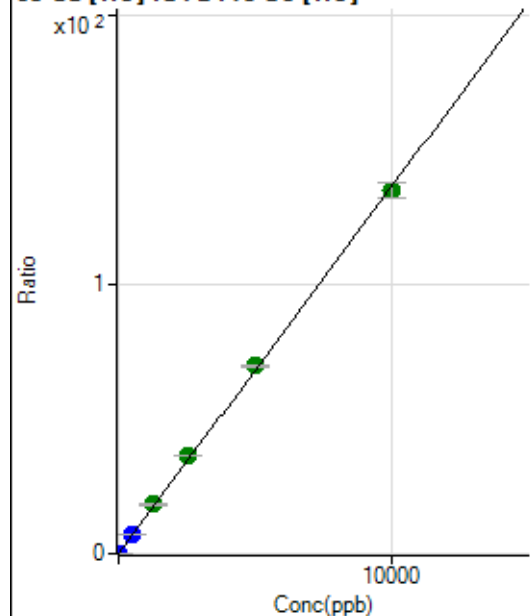
$$y = 0.0047 * x + 3.6852E-004$$

$$R = 0.9998$$

$$DL = 0.04919$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio    | Det<br>. | RSD |
|---|--------------------------|-----------|------------|-------------|----------|----------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 1083.38     | 0.0071   | P        | 4.2 |
| 2 | <input type="checkbox"/> | 2.000     | 2.042      | 5451.10     | 0.0349   | P        | 4.5 |
| 3 | <input type="checkbox"/> | 500.000   | 518.840    | 1123906.45  | 7.0884   | P        | 2.1 |
| 4 | <input type="checkbox"/> | 1250.000  | 1343.307   | 2852397.01  | 18.3410  | A        | 3.3 |
| 5 | <input type="checkbox"/> | 2500.000  | 2677.706   | 5709711.24  | 36.5534  | A        | 1.4 |
| 6 | <input type="checkbox"/> | 5000.000  | 5112.329   | 10932188.45 | 69.7821  | A        | 1.0 |
| 7 | <input type="checkbox"/> | 10000.000 | 9886.804   | 21123187.05 | 134.9459 | A        | 4.2 |
| 8 | <input type="checkbox"/> |           |            | 4469.63     | 0.0296   | P        | 1.8 |

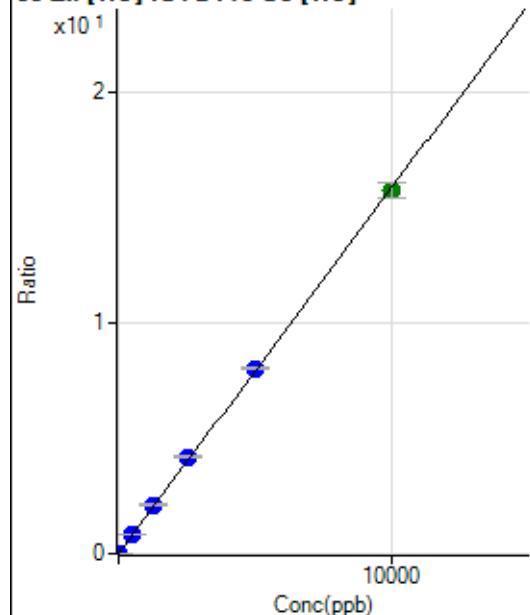
$$y = 0.0136 * x + 0.0071$$

$$R = 0.9997$$

$$DL = 0.06582$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS        | Ratio   | Det. | RSD  |
|---|--------------------------|-----------|------------|------------|---------|------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 145.56     | 0.0009  | P    | 22.5 |
| 2 | <input type="checkbox"/> | 2.000     | 2.358      | 731.14     | 0.0047  | P    | 6.0  |
| 3 | <input type="checkbox"/> | 500.000   | 536.475    | 134712.05  | 0.8496  | P    | 1.7  |
| 4 | <input type="checkbox"/> | 1250.000  | 1329.399   | 327219.15  | 2.1039  | P    | 1.8  |
| 5 | <input type="checkbox"/> | 2500.000  | 2642.328   | 652965.02  | 4.1807  | P    | 2.7  |
| 6 | <input type="checkbox"/> | 5000.000  | 5065.033   | 1255258.44 | 8.0131  | P    | 1.6  |
| 7 | <input type="checkbox"/> | 10000.000 | 9920.153   | 2456401.61 | 15.6932 | A    | 4.3  |
| 8 | <input type="checkbox"/> |           |            | 1992.39    | 0.0132  | P    | 1.4  |

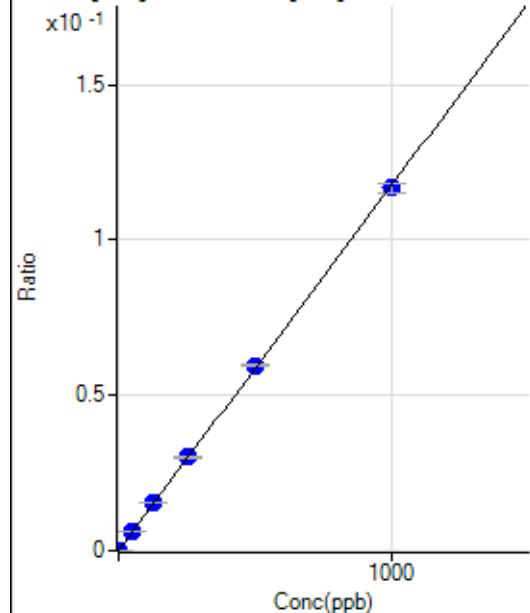
$$y = 0.0016 * x + 9.4516E-004$$

$$R = 0.9998$$

$$DL = 0.403$$

Weight: &lt;None&gt;

Min Conc: 0

**<sup>75</sup>As [He] ISTD: <sup>89</sup>Y [He]**

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS       | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-----------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 3.00      | 0.0000 | P    | 34.3 |
| 2 | <input type="checkbox"/> | 1.000    | 1.110      | 152.35    | 0.0001 | P    | 12.9 |
| 3 | <input type="checkbox"/> | 50.000   | 52.473     | 7005.79   | 0.0062 | P    | 1.6  |
| 4 | <input type="checkbox"/> | 125.000  | 131.843    | 17431.50  | 0.0155 | P    | 1.0  |
| 5 | <input type="checkbox"/> | 250.000  | 256.536    | 34877.69  | 0.0302 | P    | 3.0  |
| 6 | <input type="checkbox"/> | 500.000  | 507.847    | 68429.28  | 0.0597 | P    | 1.4  |
| 7 | <input type="checkbox"/> | 1000.000 | 993.464    | 133883.57 | 0.1168 | P    | 2.9  |
| 8 | <input type="checkbox"/> |          |            | 92.01     | 0.0001 | P    | 9.0  |

$$y = 1.1758E-004 * x + 2.7275E-006$$

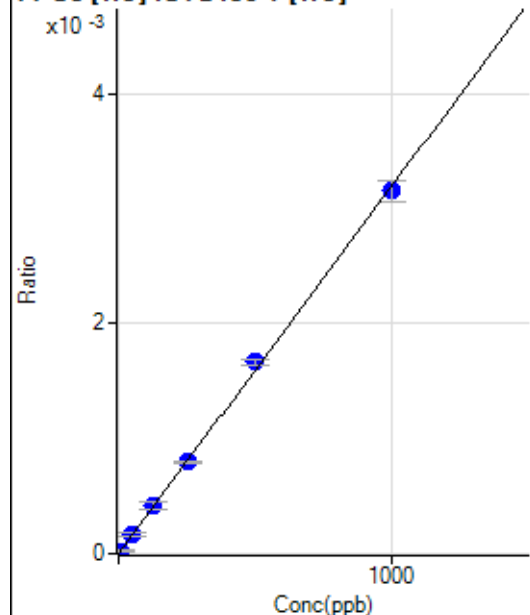
$$R = 0.9999$$

$$DL = 0.02385$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS     | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|---------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 0.00    | 0.0000 | P   |      |
| 2 | <input type="checkbox"/> | 5.000    | 7.324      | 26.67   | 0.0000 | P   | 34.1 |
| 3 | <input type="checkbox"/> | 50.000   | 51.241     | 185.56  | 0.0002 | P   | 19.3 |
| 4 | <input type="checkbox"/> | 125.000  | 129.875    | 465.57  | 0.0004 | P   | 15.5 |
| 5 | <input type="checkbox"/> | 250.000  | 249.605    | 921.15  | 0.0008 | P   | 1.0  |
| 6 | <input type="checkbox"/> | 500.000  | 522.306    | 1910.15 | 0.0017 | P   | 3.1  |
| 7 | <input type="checkbox"/> | 1000.000 | 988.263    | 3612.73 | 0.0032 | P   | 5.7  |
| 8 | <input type="checkbox"/> |          |            | 2.22    | 0.0000 | P   | 86.6 |

$$y = 3.1911\text{E-}006 * x + 0.0000\text{E+}000$$

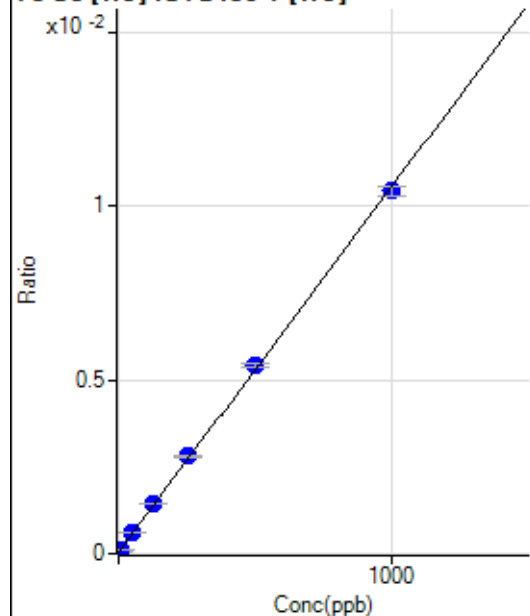
$$R = 0.9996$$

$$DL = 0$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS      | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|----------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 47.67    | 0.0000 | P   | 10.1 |
| 2 | <input type="checkbox"/> | 5.000    | 4.828      | 107.34   | 0.0001 | P   | 12.5 |
| 3 | <input type="checkbox"/> | 50.000   | 52.226     | 672.75   | 0.0006 | P   | 2.9  |
| 4 | <input type="checkbox"/> | 125.000  | 133.651    | 1629.60  | 0.0014 | P   | 1.8  |
| 5 | <input type="checkbox"/> | 250.000  | 262.677    | 3246.38  | 0.0028 | P   | 1.3  |
| 6 | <input type="checkbox"/> | 500.000  | 513.337    | 6239.35  | 0.0054 | P   | 1.9  |
| 7 | <input type="checkbox"/> | 1000.000 | 988.970    | 11976.30 | 0.0105 | P   | 2.9  |
| 8 | <input type="checkbox"/> |          |            | 46.67    | 0.0000 | P   | 12.7 |

$$y = 1.0524\text{E-}005 * x + 4.3058\text{E-}005$$

$$R = 0.9998$$

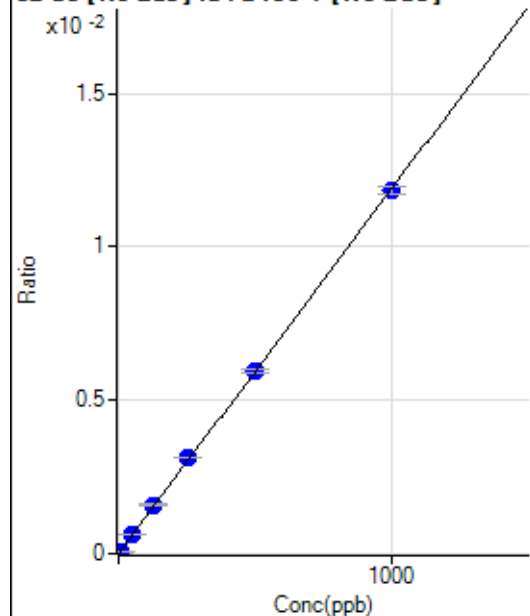
$$DL = 1.24$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS      | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|----------|-------|----------|-----|
| 1 | <input type="checkbox"/> |       |            | 70413.32 |       | P        | 2.2 |
| 2 | <input type="checkbox"/> |       |            | 69068.34 |       | P        | 3.2 |
| 3 | <input type="checkbox"/> |       |            | 71626.70 |       | P        | 1.8 |
| 4 | <input type="checkbox"/> |       |            | 69530.39 |       | P        | 1.2 |
| 5 | <input type="checkbox"/> |       |            | 67964.83 |       | P        | 1.4 |
| 6 | <input type="checkbox"/> |       |            | 68632.70 |       | P        | 1.8 |
| 7 | <input type="checkbox"/> |       |            | 71400.25 |       | P        | 2.6 |
| 8 | <input type="checkbox"/> |       |            | 65168.62 |       | P        | 3.8 |

**82 Se [ 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      | 42.53     | 0.0000 | P        | 161. |
| 2 | <input type="checkbox"/> | 5.000    | 4.989      | 895.81    | 0.0001 | P        | 14.2 |
| 3 | <input type="checkbox"/> | 50.000   | 52.034     | 9171.99   | 0.0006 | P        | 1.7  |
| 4 | <input type="checkbox"/> | 125.000  | 134.229    | 22810.78  | 0.0016 | P        | 0.7  |
| 5 | <input type="checkbox"/> | 250.000  | 263.373    | 44928.40  | 0.0031 | P        | 0.9  |
| 6 | <input type="checkbox"/> | 500.000  | 501.008    | 87470.48  | 0.0060 | P        | 1.7  |
| 7 | <input type="checkbox"/> | 1000.000 | 994.897    | 172857.63 | 0.0118 | P        | 2.2  |
| 8 | <input type="checkbox"/> |          |            | 221.68    | 0.0000 | P        | 20.9 |

$$y = 1.1882E-005 * x + 2.9868E-006$$

$$R = 0.9999$$

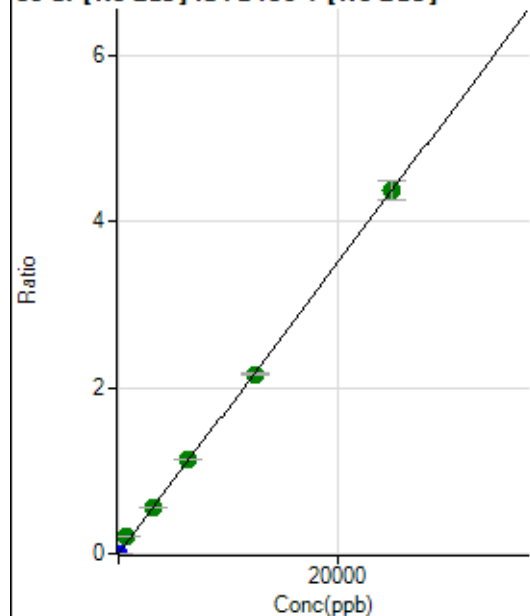
$$DL = 1.215$$

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"/> |       |            | 583.69 |       | P        | 1.3 |
| 2 | <input type="checkbox"/> |       |            | 567.86 |       | P        | 7.3 |
| 3 | <input type="checkbox"/> |       |            | 585.77 |       | P        | 2.3 |
| 4 | <input type="checkbox"/> |       |            | 581.61 |       | P        | 4.9 |
| 5 | <input type="checkbox"/> |       |            | 591.61 |       | P        | 4.5 |
| 6 | <input type="checkbox"/> |       |            | 565.77 |       | P        | 2.2 |
| 7 | <input type="checkbox"/> |       |            | 592.86 |       | P        | 7.4 |
| 8 | <input type="checkbox"/> |       |            | 620.77 |       | P        | 6.5 |

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio  | Det<br>. | RSD  |
|---|--------------------------|-----------|------------|-------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 897.28      | 0.0001 | P        | 21.0 |
| 2 | <input type="checkbox"/> | 1.000     | 0.971      | 3336.61     | 0.0002 | P        | 4.0  |
| 3 | <input type="checkbox"/> | 625.000   | 1230.745   | 3171775.90  | 0.2148 | A        | 1.6  |
| 4 | <input type="checkbox"/> | 3125.000  | 3171.121   | 7901958.77  | 0.5535 | A        | 0.6  |
| 5 | <input type="checkbox"/> | 6250.000  | 6437.837   | 16116918.24 | 1.1235 | A        | 0.2  |
| 6 | <input type="checkbox"/> | 12500.000 | 12360.232  | 31681256.96 | 2.1571 | A        | 1.2  |
| 7 | <input type="checkbox"/> | 25000.000 | 25002.016  | 63749472.95 | 4.3632 | A        | 5.3  |
| 8 | <input type="checkbox"/> |           |            | 16674.47    | 0.0012 | P        | 1.5  |

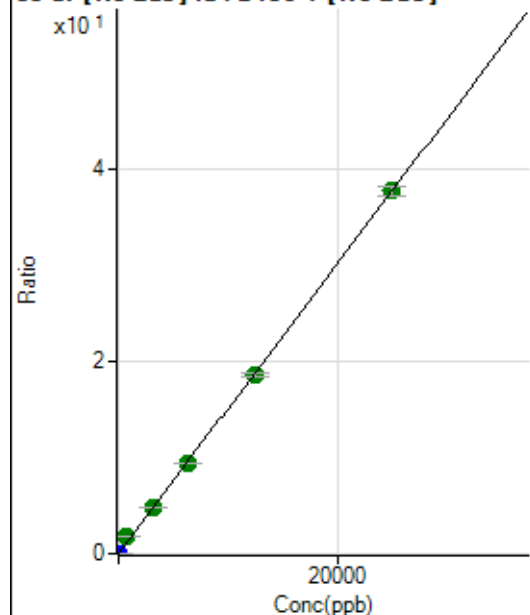
$$y = 1.7451E-004 * x + 6.2507E-005$$

$$R = 0.9997$$

$$DL = 0.2262$$

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      | 341.68      | 0.0000  | P    | 7.2 |
| 2 | <input type="checkbox"/> | 1.000     | 0.967      | 21291.80    | 0.0015  | P    | 3.8 |
| 3 | <input type="checkbox"/> | 625.000   | 1229.938   | 27334351.30 | 1.8514  | A    | 2.4 |
| 4 | <input type="checkbox"/> | 3125.000  | 3137.018   | 67414751.51 | 4.7220  | A    | 0.4 |
| 5 | <input type="checkbox"/> | 6250.000  | 6229.552   | 134509857.1 | 9.3771  | A    | 1.0 |
| 6 | <input type="checkbox"/> | 12500.000 | 12350.658  | 273020892.2 | 18.5910 | A    | 2.6 |
| 7 | <input type="checkbox"/> | 25000.000 | 25063.157  | 551530645.6 | 37.7266 | A    | 2.5 |
| 8 | <input type="checkbox"/> |           |            | 135396.57   | 0.0096  | P    | 1.6 |

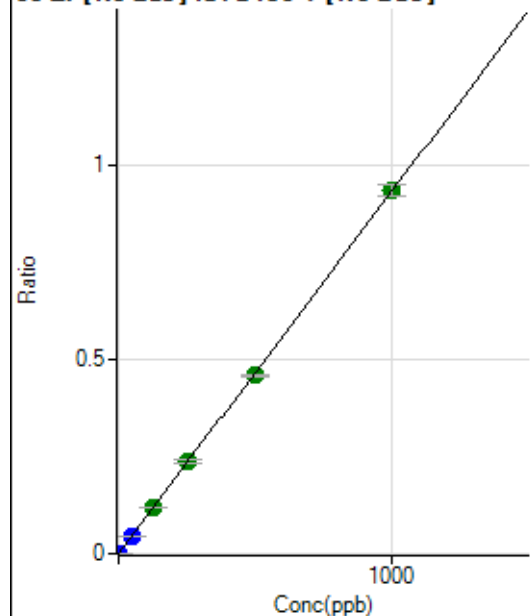
$$y = 0.0015 * x + 2.3818E-005$$

$$R = 0.9997$$

$$DL = 0.003416$$

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      | 569.47      | 0.0000 | P    | 3.3 |
| 2 | <input type="checkbox"/> | 1.000    | 0.954      | 13381.83    | 0.0009 | P    | 3.0 |
| 3 | <input type="checkbox"/> | 50.000   | 48.316     | 666342.25   | 0.0451 | P    | 1.9 |
| 4 | <input type="checkbox"/> | 125.000  | 127.962    | 1705450.04  | 0.1195 | A    | 1.9 |
| 5 | <input type="checkbox"/> | 250.000  | 254.972    | 3413348.69  | 0.2380 | A    | 2.9 |
| 6 | <input type="checkbox"/> | 500.000  | 491.808    | 6743312.96  | 0.4590 | A    | 1.1 |
| 7 | <input type="checkbox"/> | 1000.000 | 1002.567   | 13676607.43 | 0.9357 | A    | 3.3 |
| 8 | <input type="checkbox"/> |          |            | 6207.14     | 0.0004 | P    | 2.4 |

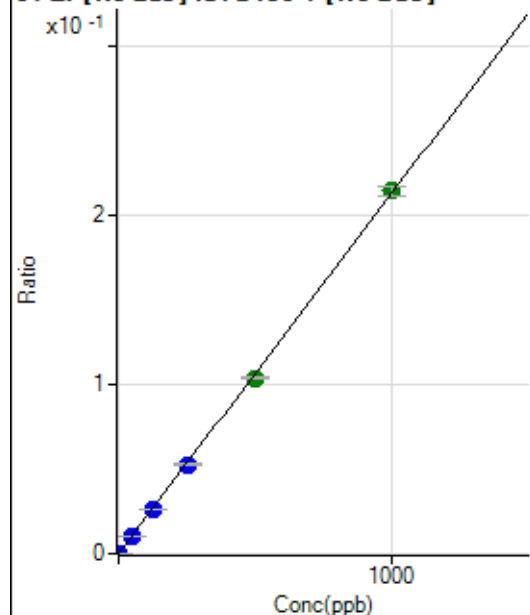
$$y = 9.3329E-004 * x + 3.9691E-005$$

$$R = 0.9999$$

$$DL = 0.004198$$

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      | 105.56     | 0.0000 | P        | 31.1 |
| 2 | <input type="checkbox"/> | 1.000    | 0.904      | 2872.60    | 0.0002 | P        | 7.5  |
| 3 | <input type="checkbox"/> | 50.000   | 47.672     | 149861.60  | 0.0102 | P        | 1.7  |
| 4 | <input type="checkbox"/> | 125.000  | 123.250    | 374447.40  | 0.0262 | P        | 2.5  |
| 5 | <input type="checkbox"/> | 250.000  | 248.077    | 757183.36  | 0.0528 | P        | 1.2  |
| 6 | <input type="checkbox"/> | 500.000  | 487.415    | 1523235.00 | 0.1037 | A        | 1.5  |
| 7 | <input type="checkbox"/> | 1000.000 | 1007.108   | 3132475.42 | 0.2143 | A        | 2.5  |
| 8 | <input type="checkbox"/> |          |            | 1461.24    | 0.0001 | P        | 7.2  |

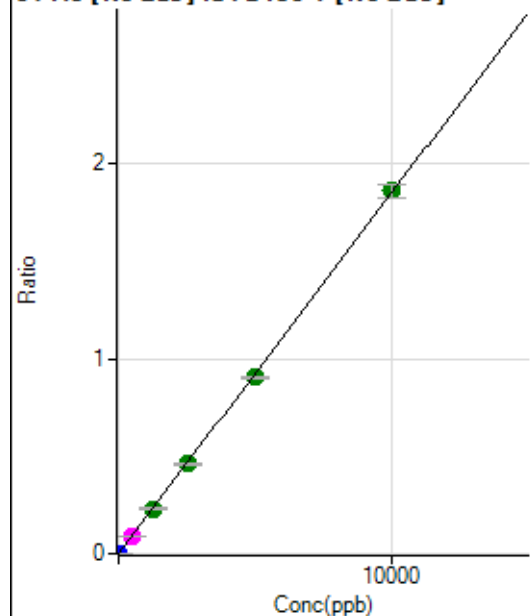
$$y = 2.1277E-004 * x + 7.3719E-006$$

$$R = 0.9999$$

$$DL = 0.0323$$

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      | 152.78      | 0.0000 | P        | 26.4 |
| 2 | <input type="checkbox"/> | 5.000     | 5.955      | 15984.59    | 0.0011 | P        | 1.2  |
| 3 | <input type="checkbox"/> | 500.000   | 491.176    | 1339909.28  | 0.0908 | M        | 0.3  |
| 4 | <input type="checkbox"/> | 1250.000  | 1249.722   | 3296789.94  | 0.2309 | A        | 2.1  |
| 5 | <input type="checkbox"/> | 2500.000  | 2488.325   | 6593978.10  | 0.4597 | A        | 2.4  |
| 6 | <input type="checkbox"/> | 5000.000  | 4881.196   | 13246075.47 | 0.9018 | A        | 0.9  |
| 7 | <input type="checkbox"/> | 10000.000 | 10062.796  | 27175143.31 | 1.8592 | A        | 3.5  |
| 8 | <input type="checkbox"/> |           |            | 9879.04     | 0.0007 | P        | 8.0  |

$$y = 1.8476E-004 * x + 1.0638E-005$$

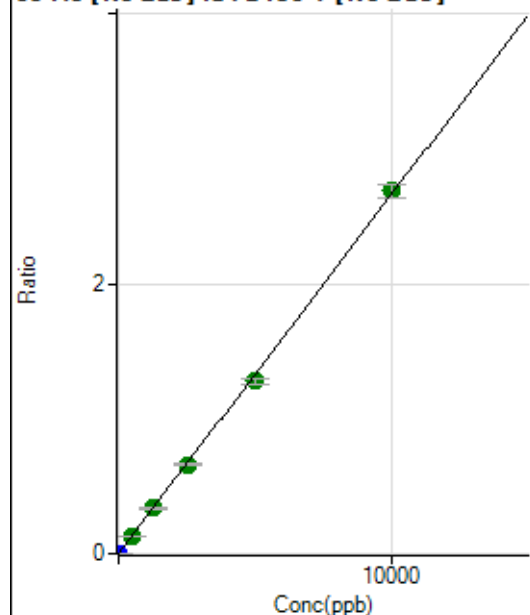
$$R = 0.9999$$

$$DL = 0.04554$$

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      | 30.55       | 0.0000 | P    | 95.2 |
| 2 | <input type="checkbox"/> | 5.000     | 4.976      | 19077.40    | 0.0013 | P    | 2.5  |
| 3 | <input type="checkbox"/> | 500.000   | 491.920    | 1931944.81  | 0.1309 | A    | 2.6  |
| 4 | <input type="checkbox"/> | 1250.000  | 1261.944   | 4793114.17  | 0.3357 | A    | 1.9  |
| 5 | <input type="checkbox"/> | 2500.000  | 2485.036   | 9482438.41  | 0.6611 | A    | 1.5  |
| 6 | <input type="checkbox"/> | 5000.000  | 4802.225   | 18761561.01 | 1.2776 | A    | 2.7  |
| 7 | <input type="checkbox"/> | 10000.000 | 10101.540  | 39275102.27 | 2.6874 | A    | 3.8  |
| 8 | <input type="checkbox"/> |           |            | 11612.26    | 0.0008 | P    | 6.1  |

$$y = 2.6604E-004 * x + 2.1307E-006$$

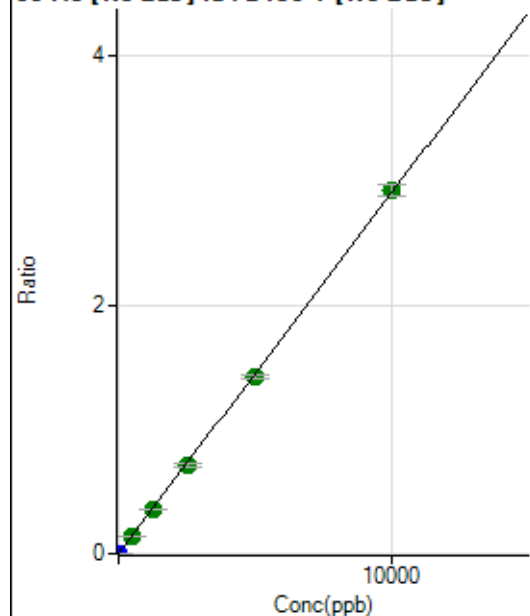
$$R = 0.9997$$

$$DL = 0.02288$$

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      | 227.79      | 0.0000 | P    | 19.9 |
| 2 | <input type="checkbox"/> | 5.000     | 5.087      | 21444.87    | 0.0015 | P    | 2.5  |
| 3 | <input type="checkbox"/> | 500.000   | 483.504    | 2069577.22  | 0.1402 | A    | 1.2  |
| 4 | <input type="checkbox"/> | 1250.000  | 1238.094   | 5123868.69  | 0.3589 | A    | 1.5  |
| 5 | <input type="checkbox"/> | 2500.000  | 2454.750   | 10206145.98 | 0.7116 | A    | 2.8  |
| 6 | <input type="checkbox"/> | 5000.000  | 4903.855   | 20875959.32 | 1.4216 | A    | 3.1  |
| 7 | <input type="checkbox"/> | 10000.000 | 10061.698  | 42636970.75 | 2.9168 | A    | 3.1  |
| 8 | <input type="checkbox"/> |           |            | 31385.85    | 0.0022 | P    | 3.0  |

$$y = 2.8989E-004 * x + 1.5851E-005$$

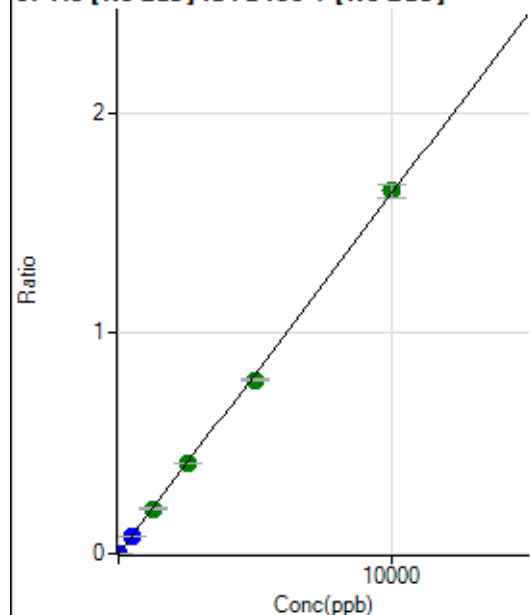
$$R = 0.9999$$

$$DL = 0.03265$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio  | Det | RSD  |
|---|--------------------------|-----------|------------|-------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 8.33        | 0.0000 | P   | 99.4 |
| 2 | <input type="checkbox"/> | 5.000     | 5.101      | 11999.92    | 0.0008 | P   | 0.8  |
| 3 | <input type="checkbox"/> | 500.000   | 490.076    | 1182105.80  | 0.0801 | P   | 0.2  |
| 4 | <input type="checkbox"/> | 1250.000  | 1254.875   | 2927376.19  | 0.2050 | A   | 2.1  |
| 5 | <input type="checkbox"/> | 2500.000  | 2513.764   | 5891138.80  | 0.4107 | A   | 0.8  |
| 6 | <input type="checkbox"/> | 5000.000  | 4830.981   | 11592310.59 | 0.7893 | A   | 1.4  |
| 7 | <input type="checkbox"/> | 10000.000 | 10080.955  | 24071121.02 | 1.6471 | A   | 3.8  |
| 8 | <input type="checkbox"/> |           |            | 7786.49     | 0.0006 | P   | 5.5  |

$$y = 1.6338\text{E-}004 * x + 5.8080\text{E-}007$$

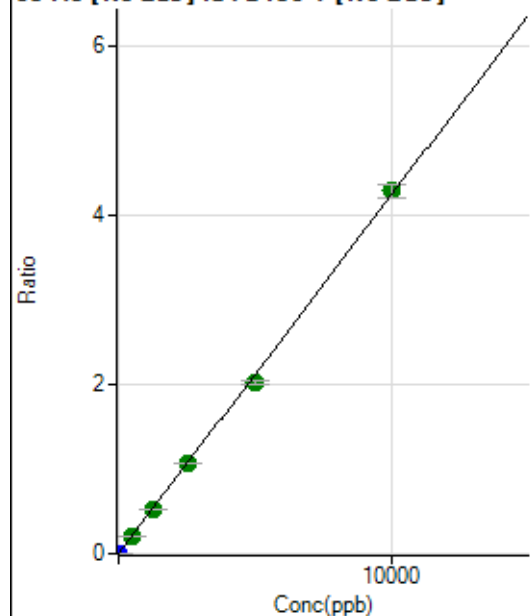
$$R = 0.9998$$

$$DL = 0.0106$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio  | Det | RSD  |
|---|--------------------------|-----------|------------|-------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 44.44       | 0.0000 | P   | 28.3 |
| 2 | <input type="checkbox"/> | 5.000     | 4.927      | 30147.45    | 0.0021 | P   | 2.6  |
| 3 | <input type="checkbox"/> | 500.000   | 480.022    | 3009409.08  | 0.2038 | A   | 1.6  |
| 4 | <input type="checkbox"/> | 1250.000  | 1232.761   | 7473812.93  | 0.5235 | A   | 2.0  |
| 5 | <input type="checkbox"/> | 2500.000  | 2517.843   | 15335069.44 | 1.0692 | A   | 1.6  |
| 6 | <input type="checkbox"/> | 5000.000  | 4780.528   | 29812422.89 | 2.0300 | A   | 2.0  |
| 7 | <input type="checkbox"/> | 10000.000 | 10108.429  | 62733692.37 | 4.2924 | A   | 3.6  |
| 8 | <input type="checkbox"/> |           |            | 17927.71    | 0.0013 | P   | 9.4  |

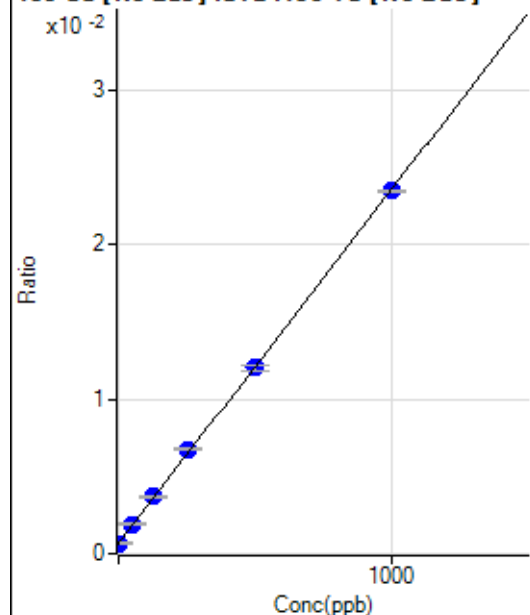
$$y = 4.2463\text{E-}004 * x + 3.0958\text{E-}006$$

$$R = 0.9996$$

$$DL = 0.006185$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS       | Ratio  | Det. | RSD |
|---|--------------------------|----------|------------|-----------|--------|------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 5856.96   | 0.0007 | P    | 4.7 |
| 2 | <input type="checkbox"/> | 1.000    | 0.743      | 6009.81   | 0.0007 | P    | 3.1 |
| 3 | <input type="checkbox"/> | 50.000   | 55.067     | 17817.58  | 0.0019 | P    | 5.2 |
| 4 | <input type="checkbox"/> | 125.000  | 131.824    | 34068.02  | 0.0037 | P    | 3.0 |
| 5 | <input type="checkbox"/> | 250.000  | 266.627    | 62246.94  | 0.0068 | P    | 2.6 |
| 6 | <input type="checkbox"/> | 500.000  | 496.750    | 114394.66 | 0.0120 | P    | 2.7 |
| 7 | <input type="checkbox"/> | 1000.000 | 996.362    | 226205.15 | 0.0235 | P    | 0.6 |
| 8 | <input type="checkbox"/> |          |            | 5562.39   | 0.0006 | P    | 2.6 |

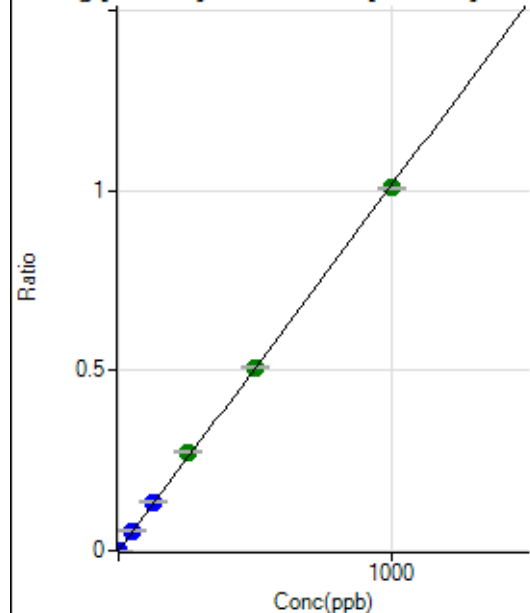
$$y = 2.2900\text{E-}005 * x + 6.6624\text{E-}004$$

$$R = 0.9998$$

$$DL = 4.14$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 130.56     | 0.0000 | P    | 21.1 |
| 2 | <input type="checkbox"/> | 1.000    | 1.107      | 10020.62   | 0.0011 | P    | 2.2  |
| 3 | <input type="checkbox"/> | 50.000   | 54.189     | 508575.59  | 0.0550 | P    | 4.1  |
| 4 | <input type="checkbox"/> | 125.000  | 133.288    | 1250788.63 | 0.1353 | P    | 2.0  |
| 5 | <input type="checkbox"/> | 250.000  | 270.372    | 2522525.27 | 0.2744 | A    | 2.1  |
| 6 | <input type="checkbox"/> | 500.000  | 501.633    | 4836802.80 | 0.5091 | A    | 1.5  |
| 7 | <input type="checkbox"/> | 1000.000 | 992.845    | 9706907.42 | 1.0077 | A    | 0.7  |
| 8 | <input type="checkbox"/> |          |            | 3464.50    | 0.0004 | P    | 3.4  |

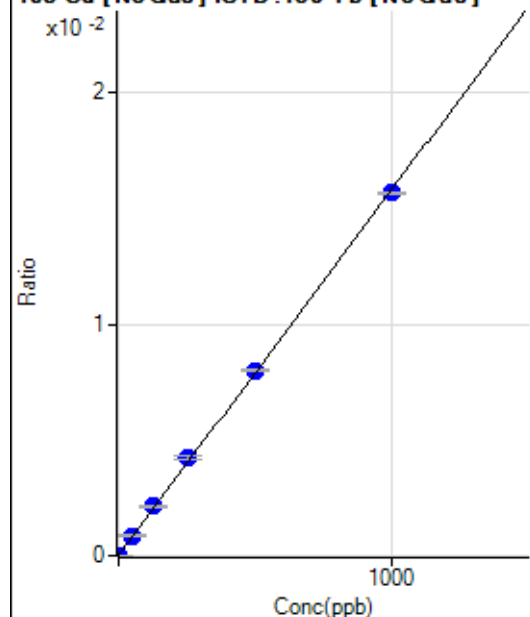
$$y = 0.0010 * x + 1.4861\text{E-}005$$

$$R = 0.9998$$

$$DL = 0.00928$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS       | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-----------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 131.95    | 0.0000 | P    | 3.2  |
| 2 | <input type="checkbox"/> | 1.000    | 0.720      | 231.95    | 0.0000 | P    | 12.1 |
| 3 | <input type="checkbox"/> | 50.000   | 53.204     | 7900.96   | 0.0009 | P    | 6.5  |
| 4 | <input type="checkbox"/> | 125.000  | 133.260    | 19589.08  | 0.0021 | P    | 1.2  |
| 5 | <input type="checkbox"/> | 250.000  | 267.060    | 38896.54  | 0.0042 | P    | 2.5  |
| 6 | <input type="checkbox"/> | 500.000  | 505.276    | 75932.88  | 0.0080 | P    | 0.9  |
| 7 | <input type="checkbox"/> | 1000.000 | 991.905    | 151011.56 | 0.0157 | P    | 0.6  |
| 8 | <input type="checkbox"/> |          |            | 115.28    | 0.0000 | P    | 17.7 |

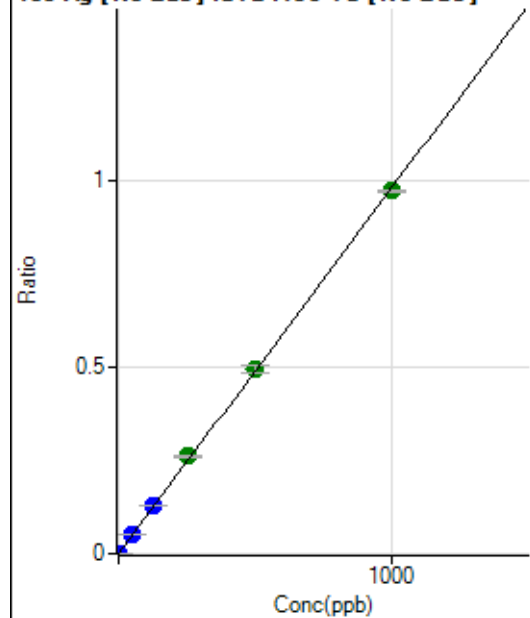
$$y = 1.5788\text{E-}005 * x + 1.4995\text{E-}005$$

$$R = 0.9998$$

$$DL = 0.08993$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 86.12      | 0.0000 | P    | 7.5  |
| 2 | <input type="checkbox"/> | 1.000    | 1.083      | 9411.80    | 0.0011 | P    | 4.0  |
| 3 | <input type="checkbox"/> | 50.000   | 53.315     | 482334.40  | 0.0522 | P    | 4.1  |
| 4 | <input type="checkbox"/> | 125.000  | 131.395    | 1188515.98 | 0.1286 | P    | 0.8  |
| 5 | <input type="checkbox"/> | 250.000  | 267.480    | 2405550.70 | 0.2617 | A    | 2.5  |
| 6 | <input type="checkbox"/> | 500.000  | 504.065    | 4684040.73 | 0.4932 | A    | 3.7  |
| 7 | <input type="checkbox"/> | 1000.000 | 992.632    | 9355199.52 | 0.9712 | A    | 0.8  |
| 8 | <input type="checkbox"/> |          |            | 3214.42    | 0.0004 | P    | 10.6 |

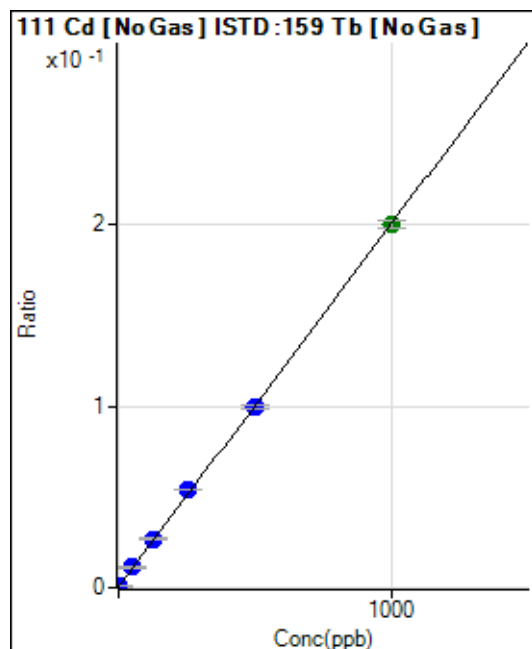
$$y = 9.7837\text{E-}004 * x + 9.7991\text{E-}006$$

$$R = 0.9998$$

$$DL = 0.002245$$

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      | 4018.62    | 0.0005 | P    | 5.0 |
| 2 | <input type="checkbox"/> | 1.000    | 1.163      | 6068.29    | 0.0007 | P    | 1.6 |
| 3 | <input type="checkbox"/> | 50.000   | 53.646     | 103401.62  | 0.0112 | P    | 4.2 |
| 4 | <input type="checkbox"/> | 125.000  | 132.295    | 248810.51  | 0.0269 | P    | 0.6 |
| 5 | <input type="checkbox"/> | 250.000  | 265.576    | 492454.20  | 0.0536 | P    | 0.3 |
| 6 | <input type="checkbox"/> | 500.000  | 497.143    | 948772.47  | 0.0999 | P    | 1.9 |
| 7 | <input type="checkbox"/> | 1000.000 | 996.440    | 1923658.99 | 0.1997 | A    | 2.2 |
| 8 | <input type="checkbox"/> |          |            | 4164.38    | 0.0005 | P    | 2.2 |

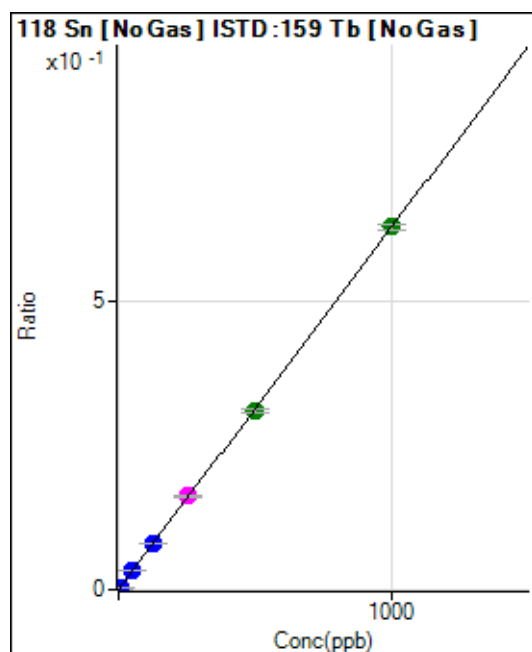
$$y = 1.9998\text{E-}004 * x + 4.5714\text{E-}004$$

$$R = 0.9999$$

$$DL = 0.3451$$

Weight: <None>

Min Conc: 0



|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD |
|---|--------------------------|----------|------------|------------|--------|------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 4014.59    | 0.0005 | P    | 5.1 |
| 2 | <input type="checkbox"/> | 5.000    | 5.155      | 32536.88   | 0.0037 | P    | 2.4 |
| 3 | <input type="checkbox"/> | 50.000   | 50.570     | 298309.82  | 0.0323 | P    | 3.0 |
| 4 | <input type="checkbox"/> | 125.000  | 126.907    | 742146.84  | 0.0803 | P    | 2.5 |
| 5 | <input type="checkbox"/> | 250.000  | 256.876    | 1489601.04 | 0.1620 | M    | 1.1 |
| 6 | <input type="checkbox"/> | 500.000  | 493.391    | 2951990.62 | 0.3108 | A    | 2.6 |
| 7 | <input type="checkbox"/> | 1000.000 | 1001.318   | 6071958.64 | 0.6302 | A    | 1.3 |
| 8 | <input type="checkbox"/> |          |            | 7099.32    | 0.0008 | P    | 3.7 |

$$y = 6.2895\text{E-}004 * x + 4.5661\text{E-}004$$

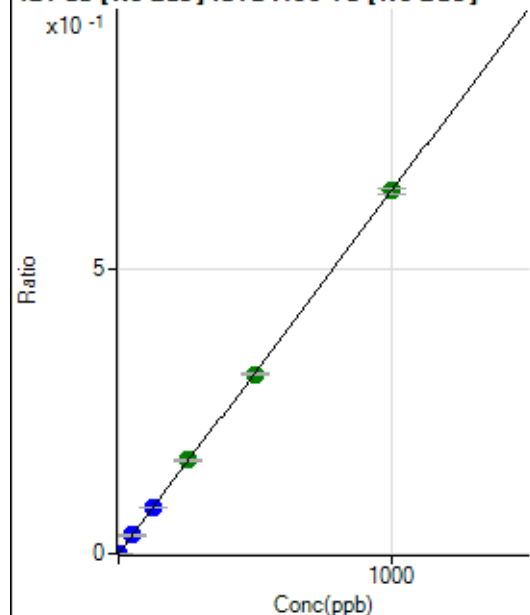
$$R = 0.9999$$

$$DL = 0.1102$$

Weight: <None>

Min Conc: 0

121 Sb [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      | 44.45      | 0.0000 | P        | 12.8 |
| 2 | <input type="checkbox"/> | 2.000    | 2.154      | 12102.92   | 0.0014 | P        | 1.8  |
| 3 | <input type="checkbox"/> | 50.000   | 50.464     | 296861.92  | 0.0321 | P        | 2.4  |
| 4 | <input type="checkbox"/> | 125.000  | 127.473    | 749617.08  | 0.0811 | P        | 1.4  |
| 5 | <input type="checkbox"/> | 250.000  | 257.393    | 1505090.95 | 0.1637 | A        | 0.9  |
| 6 | <input type="checkbox"/> | 500.000  | 494.968    | 2991417.19 | 0.3148 | A        | 0.6  |
| 7 | <input type="checkbox"/> | 1000.000 | 1000.335   | 6130018.06 | 0.6363 | A        | 1.4  |
| 8 | <input type="checkbox"/> |          |            | 5426.27    | 0.0006 | P        | 13.4 |

$$y = 6.3605E-004 * x + 5.0608E-006$$

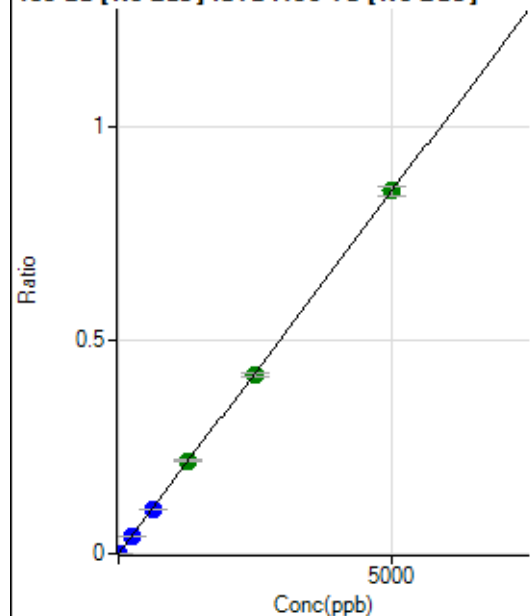
$$R = 1.0000$$

$$DL = 0.003044$$

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<br>. | RSD  |
|---|--------------------------|----------|------------|------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 16.67      | 0.0000 | P        | 49.6 |
| 2 | <input type="checkbox"/> | 10.000   | 9.971      | 14916.93   | 0.0017 | P        | 2.6  |
| 3 | <input type="checkbox"/> | 250.000  | 247.952    | 389416.94  | 0.0421 | P        | 2.5  |
| 4 | <input type="checkbox"/> | 625.000  | 617.691    | 969801.13  | 0.1049 | P        | 0.2  |
| 5 | <input type="checkbox"/> | 1250.000 | 1284.474   | 2005609.70 | 0.2181 | A        | 1.9  |
| 6 | <input type="checkbox"/> | 2500.000 | 2470.131   | 3986005.95 | 0.4195 | A        | 2.1  |
| 7 | <input type="checkbox"/> | 5000.000 | 5007.332   | 8193903.05 | 0.8504 | A        | 2.4  |
| 8 | <input type="checkbox"/> |          |            | 3725.72    | 0.0004 | P        | 11.4 |

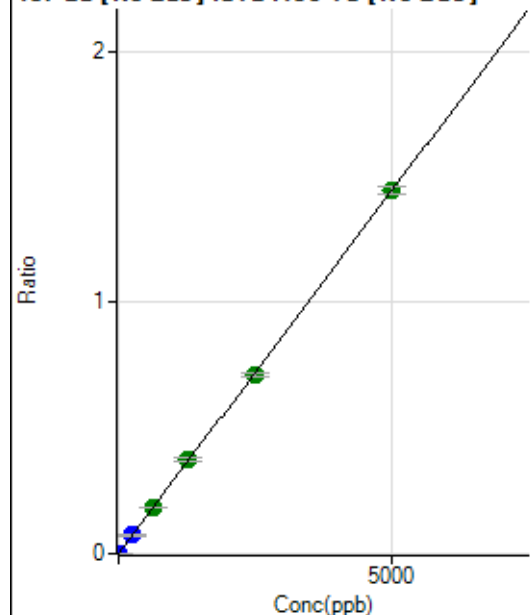
$$y = 1.6983E-004 * x + 1.8956E-006$$

$$R = 0.9999$$

$$DL = 0.0166$$

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      | 61.11       | 0.0000 | P        | 30.6 |
| 2 | <input type="checkbox"/> | 10.000   | 9.974      | 25416.17    | 0.0029 | P        | 2.4  |
| 3 | <input type="checkbox"/> | 250.000  | 253.128    | 676420.91   | 0.0731 | P        | 2.0  |
| 4 | <input type="checkbox"/> | 625.000  | 645.828    | 1725147.09  | 0.1866 | A        | 0.4  |
| 5 | <input type="checkbox"/> | 1250.000 | 1294.768   | 3438563.62  | 0.3741 | A        | 3.7  |
| 6 | <input type="checkbox"/> | 2500.000 | 2467.853   | 6773804.45  | 0.7131 | A        | 2.0  |
| 7 | <input type="checkbox"/> | 5000.000 | 5002.122   | 13924979.57 | 1.4453 | A        | 2.1  |
| 8 | <input type="checkbox"/> |          |            | 6690.96     | 0.0007 | P        | 5.8  |

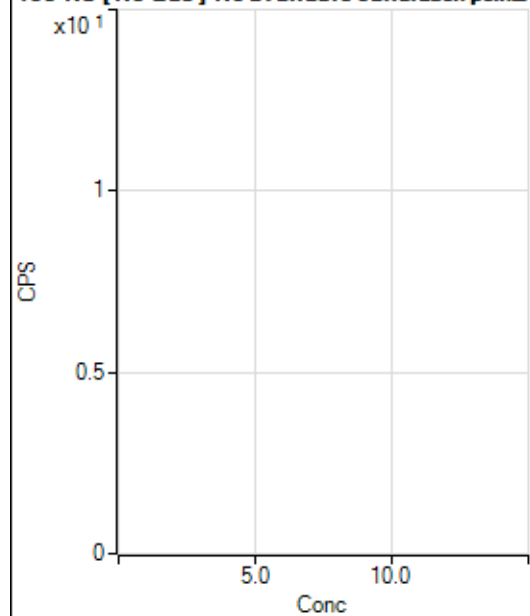
$$y = 2.8893E-004 * x + 6.9366E-006$$

$$R = 0.9999$$

$$DL = 0.02201$$

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"/> |       |            | 11.11  |       | P        | 34.6 |
| 2 | <input type="checkbox"/> |       |            | 20.00  |       | P        | 33.4 |
| 3 | <input type="checkbox"/> |       |            | 55.56  |       | P        | 45.4 |
| 4 | <input type="checkbox"/> |       |            | 126.67 |       | P        | 22.9 |
| 5 | <input type="checkbox"/> |       |            | 197.78 |       | P        | 10.8 |
| 6 | <input type="checkbox"/> |       |            | 388.90 |       | P        | 8.8  |
| 7 | <input type="checkbox"/> |       |            | 822.27 |       | P        | 11.6 |
| 8 | <input type="checkbox"/> |       |            | 84.45  |       | P        | 9.1  |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS   | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|-------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 1.11  |       | P        | 173. |
| 2 | <input type="checkbox"/> |       |            | 0.00  |       | P        |      |
| 3 | <input type="checkbox"/> |       |            | 2.22  |       | P        | 86.6 |
| 4 | <input type="checkbox"/> |       |            | 3.33  |       | P        | 0.0  |
| 5 | <input type="checkbox"/> |       |            | 8.89  |       | P        | 57.3 |
| 6 | <input type="checkbox"/> |       |            | 21.11 |       | P        | 24.1 |
| 7 | <input type="checkbox"/> |       |            | 31.11 |       | P        | 12.4 |
| 8 | <input type="checkbox"/> |       |            | 18.89 |       | P        | 53.9 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 8.33   |       | P        | 100. |
| 2 | <input type="checkbox"/> |       |            | 5.55   |       | P        | 86.6 |
| 3 | <input type="checkbox"/> |       |            | 22.22  |       | P        | 43.3 |
| 4 | <input type="checkbox"/> |       |            | 38.89  |       | P        | 32.7 |
| 5 | <input type="checkbox"/> |       |            | 75.00  |       | P        | 11.1 |
| 6 | <input type="checkbox"/> |       |            | 188.90 |       | P        | 25.9 |
| 7 | <input type="checkbox"/> |       |            | 419.46 |       | P        | 13.5 |
| 8 | <input type="checkbox"/> |       |            | 791.71 |       | P        | 14.6 |

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

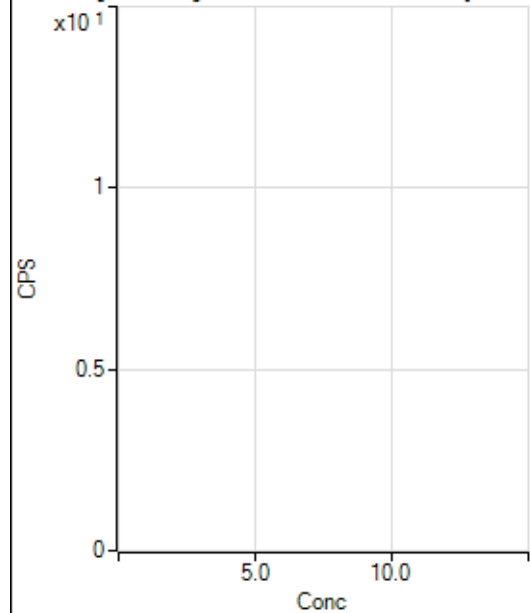
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 2.22   |       | P        | 86.6 |
| 2 | <input type="checkbox"/> |       |            | 2.22   |       | P        | 86.6 |
| 3 | <input type="checkbox"/> |       |            | 5.56   |       | P        | 34.7 |
| 4 | <input type="checkbox"/> |       |            | 15.56  |       | P        | 53.9 |
| 5 | <input type="checkbox"/> |       |            | 31.11  |       | P        | 22.3 |
| 6 | <input type="checkbox"/> |       |            | 55.56  |       | P        | 15.1 |
| 7 | <input type="checkbox"/> |       |            | 78.89  |       | P        | 9.8  |
| 8 | <input type="checkbox"/> |       |            | 212.23 |       | P        | 14.1 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 66.67  |       | P        | 50.0 |
| 2 | <input type="checkbox"/> |       |            | 72.23  |       | P        | 46.6 |
| 3 | <input type="checkbox"/> |       |            | 88.89  |       | P        | 28.6 |
| 4 | <input type="checkbox"/> |       |            | 97.23  |       | P        | 9.9  |
| 5 | <input type="checkbox"/> |       |            | 108.33 |       | P        | 26.6 |
| 6 | <input type="checkbox"/> |       |            | 163.89 |       | P        | 28.9 |
| 7 | <input type="checkbox"/> |       |            | 233.34 |       | P        | 25.0 |
| 8 | <input type="checkbox"/> |       |            | 538.91 |       | P        | 1.8  |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 75.56  |       | P        | 59.9 |
| 2 | <input type="checkbox"/> |       |            | 78.89  |       | P        | 16.0 |
| 3 | <input type="checkbox"/> |       |            | 58.89  |       | P        | 17.3 |
| 4 | <input type="checkbox"/> |       |            | 84.44  |       | P        | 26.3 |
| 5 | <input type="checkbox"/> |       |            | 101.11 |       | P        | 16.6 |
| 6 | <input type="checkbox"/> |       |            | 111.11 |       | P        | 20.0 |
| 7 | <input type="checkbox"/> |       |            | 117.78 |       | P        | 8.6  |
| 8 | <input type="checkbox"/> |       |            | 266.67 |       | P        | 20.6 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS   | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|-------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 30.56 |       | P        | 56.8 |
| 2 | <input type="checkbox"/> |       |            | 22.22 |       | P        | 114. |
| 3 | <input type="checkbox"/> |       |            | 27.78 |       | P        | 91.7 |
| 4 | <input type="checkbox"/> |       |            | 50.00 |       | P        | 16.7 |
| 5 | <input type="checkbox"/> |       |            | 41.67 |       | P        | 34.6 |
| 6 | <input type="checkbox"/> |       |            | 75.00 |       | P        | 29.4 |
| 7 | <input type="checkbox"/> |       |            | 80.56 |       | P        | 33.3 |
| 8 | <input type="checkbox"/> |       |            | 61.11 |       | P        | 28.4 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS   | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|-------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 8.89  |       | P        | 57.3 |
| 2 | <input type="checkbox"/> |       |            | 14.44 |       | P        | 70.5 |
| 3 | <input type="checkbox"/> |       |            | 14.44 |       | P        | 13.4 |
| 4 | <input type="checkbox"/> |       |            | 18.89 |       | P        | 66.8 |
| 5 | <input type="checkbox"/> |       |            | 11.11 |       | P        | 62.5 |
| 6 | <input type="checkbox"/> |       |            | 20.00 |       | P        | 44.1 |
| 7 | <input type="checkbox"/> |       |            | 26.66 |       | P        | 21.7 |
| 8 | <input type="checkbox"/> |       |            | 26.67 |       | P        | 12.5 |

**172 Yb [ No Gas ] No available calibration points**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 44.44  |       | P        | 28.6 |
| 2 | <input type="checkbox"/> |       |            | 50.00  |       | P        | 100. |
| 3 | <input type="checkbox"/> |       |            | 52.78  |       | P        | 63.8 |
| 4 | <input type="checkbox"/> |       |            | 55.56  |       | P        | 22.9 |
| 5 | <input type="checkbox"/> |       |            | 44.45  |       | P        | 78.1 |
| 6 | <input type="checkbox"/> |       |            | 63.89  |       | P        | 41.9 |
| 7 | <input type="checkbox"/> |       |            | 108.34 |       | P        | 27.7 |
| 8 | <input type="checkbox"/> |       |            | 172.23 |       | P        | 31.1 |

**172 Yb [He] No available calibration points**

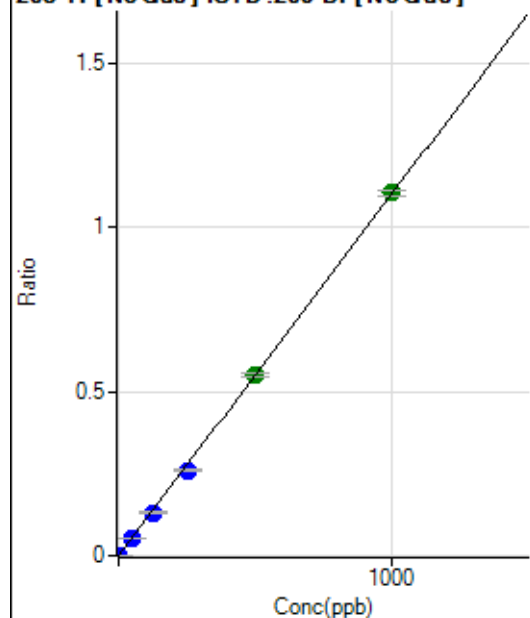
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS   | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|-------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 12.96 |       | P        | 89.2 |
| 2 | <input type="checkbox"/> |       |            | 16.67 |       | P        | 57.7 |
| 3 | <input type="checkbox"/> |       |            | 33.33 |       | P        | 16.7 |
| 4 | <input type="checkbox"/> |       |            | 22.22 |       | P        | 66.1 |
| 5 | <input type="checkbox"/> |       |            | 29.63 |       | P        | 43.3 |
| 6 | <input type="checkbox"/> |       |            | 38.89 |       | P        | 14.3 |
| 7 | <input type="checkbox"/> |       |            | 38.89 |       | P        | 42.9 |
| 8 | <input type="checkbox"/> |       |            | 57.41 |       | P        | 40.3 |

**176 Yb [No Gas] No available calibration points**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS      | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|----------|-------|----------|-----|
| 1 | <input type="checkbox"/> |       |            | 1650.15  |       | P        | 7.9 |
| 2 | <input type="checkbox"/> |       |            | 1864.07  |       | P        | 4.1 |
| 3 | <input type="checkbox"/> |       |            | 2572.54  |       | P        | 2.2 |
| 4 | <input type="checkbox"/> |       |            | 3403.31  |       | P        | 2.5 |
| 5 | <input type="checkbox"/> |       |            | 4942.74  |       | P        | 2.4 |
| 6 | <input type="checkbox"/> |       |            | 8191.64  |       | P        | 2.9 |
| 7 | <input type="checkbox"/> |       |            | 15437.22 |       | P        | 3.1 |
| 8 | <input type="checkbox"/> |       |            | 1827.95  |       | P        | 5.4 |

**176 Yb [He] No available calibration points**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS      | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|----------|-------|----------|-----|
| 1 | <input type="checkbox"/> |       |            | 6057.06  |       | P        | 1.3 |
| 2 | <input type="checkbox"/> |       |            | 5957.00  |       | P        | 4.4 |
| 3 | <input type="checkbox"/> |       |            | 6373.88  |       | P        | 2.8 |
| 4 | <input type="checkbox"/> |       |            | 6359.07  |       | P        | 2.2 |
| 5 | <input type="checkbox"/> |       |            | 7022.36  |       | P        | 5.2 |
| 6 | <input type="checkbox"/> |       |            | 8541.81  |       | P        | 2.8 |
| 7 | <input type="checkbox"/> |       |            | 10819.44 |       | P        | 0.8 |
| 8 | <input type="checkbox"/> |       |            | 5673.55  |       | P        | 2.1 |

**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      | 213.90     | 0.0000 | P        | 17.6 |
| 2 | <input type="checkbox"/> | 1.000    | 0.938      | 5420.73    | 0.0011 | P        | 4.8  |
| 3 | <input type="checkbox"/> | 50.000   | 46.113     | 262947.50  | 0.0508 | P        | 0.1  |
| 4 | <input type="checkbox"/> | 125.000  | 119.635    | 662193.82  | 0.1316 | P        | 1.5  |
| 5 | <input type="checkbox"/> | 250.000  | 236.347    | 1335298.91 | 0.2600 | P        | 1.7  |
| 6 | <input type="checkbox"/> | 500.000  | 500.757    | 2833381.53 | 0.5508 | A        | 2.0  |
| 7 | <input type="checkbox"/> | 1000.000 | 1003.900   | 5675784.81 | 1.1042 | A        | 1.8  |
| 8 | <input type="checkbox"/> |          |            | 2083.57    | 0.0005 | P        | 9.7  |

$$y = 0.0011 * x + 4.3547E-005$$

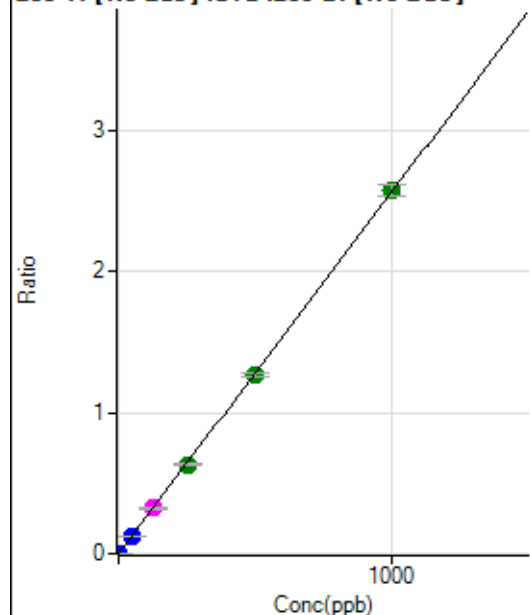
$$R = 0.9999$$

$$DL = 0.02088$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 619.48      | 0.0001 | P        | 10.1 |
| 2 | <input type="checkbox"/> | 1.000    | 0.946      | 12851.21    | 0.0025 | P        | 3.4  |
| 3 | <input type="checkbox"/> | 50.000   | 48.318     | 642082.24   | 0.1239 | P        | 2.2  |
| 4 | <input type="checkbox"/> | 125.000  | 125.249    | 1615710.94  | 0.3211 | M        | 1.4  |
| 5 | <input type="checkbox"/> | 250.000  | 245.187    | 3227584.75  | 0.6284 | A        | 2.3  |
| 6 | <input type="checkbox"/> | 500.000  | 494.764    | 6522647.93  | 1.2680 | A        | 1.2  |
| 7 | <input type="checkbox"/> | 1000.000 | 1003.874   | 13224031.46 | 2.5726 | A        | 3.0  |
| 8 | <input type="checkbox"/> |          |            | 4601.03     | 0.0010 | P        | 3.6  |

$$y = 0.0026 * x + 1.2629E-004$$

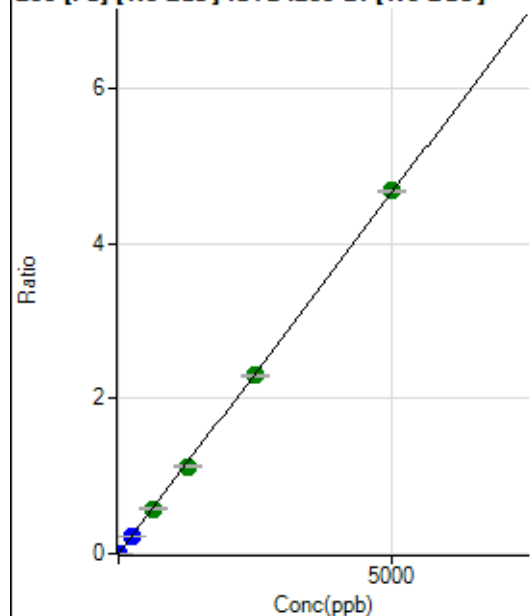
$$R = 1.0000$$

$$DL = 0.01486$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 701.88      | 0.0001 | P        | 10.6 |
| 2 | <input type="checkbox"/> | 1.000    | 0.874      | 4826.91     | 0.0010 | P        | 5.4  |
| 3 | <input type="checkbox"/> | 250.000  | 230.508    | 1112691.22  | 0.2148 | P        | 1.3  |
| 4 | <input type="checkbox"/> | 625.000  | 625.939    | 2933946.85  | 0.5831 | A        | 1.1  |
| 5 | <input type="checkbox"/> | 1250.000 | 1207.631   | 5778330.34  | 1.1249 | A        | 0.9  |
| 6 | <input type="checkbox"/> | 2500.000 | 2467.397   | 11822004.43 | 2.2981 | A        | 1.2  |
| 7 | <input type="checkbox"/> | 5000.000 | 5027.751   | 24070317.67 | 4.6827 | A        | 0.5  |
| 8 | <input type="checkbox"/> |          |            | 4751.15     | 0.0011 | P        | 11.9 |

$$y = 9.3134E-004 * x + 1.4303E-004$$

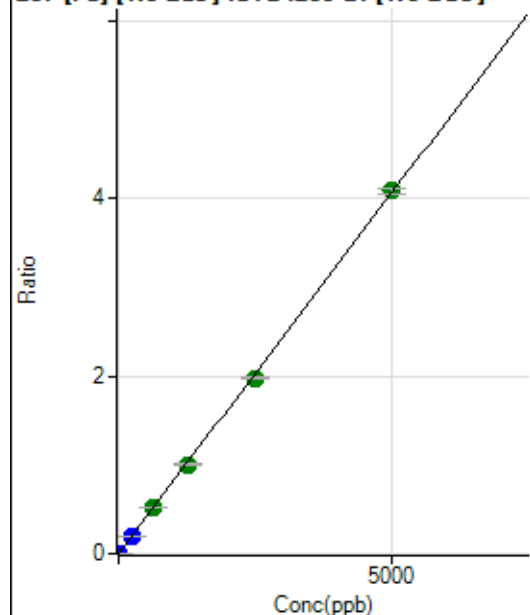
$$R = 0.9999$$

$$DL = 0.04899$$

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      | 659.29      | 0.0001 | P    | 2.3 |
| 2 | <input type="checkbox"/> | 1.000    | 0.894      | 4336.00     | 0.0009 | P    | 3.5 |
| 3 | <input type="checkbox"/> | 250.000  | 230.648    | 970465.50   | 0.1873 | P    | 0.5 |
| 4 | <input type="checkbox"/> | 625.000  | 635.953    | 2597902.34  | 0.5163 | A    | 1.5 |
| 5 | <input type="checkbox"/> | 1250.000 | 1239.103   | 5166090.22  | 1.0058 | A    | 2.5 |
| 6 | <input type="checkbox"/> | 2500.000 | 2437.033   | 10175656.94 | 1.9781 | A    | 1.2 |
| 7 | <input type="checkbox"/> | 5000.000 | 5033.806   | 21001398.39 | 4.0857 | A    | 1.3 |
| 8 | <input type="checkbox"/> |          |            | 3861.89     | 0.0009 | P    | 5.2 |

$$y = 8.1162E-004 * x + 1.3415E-004$$

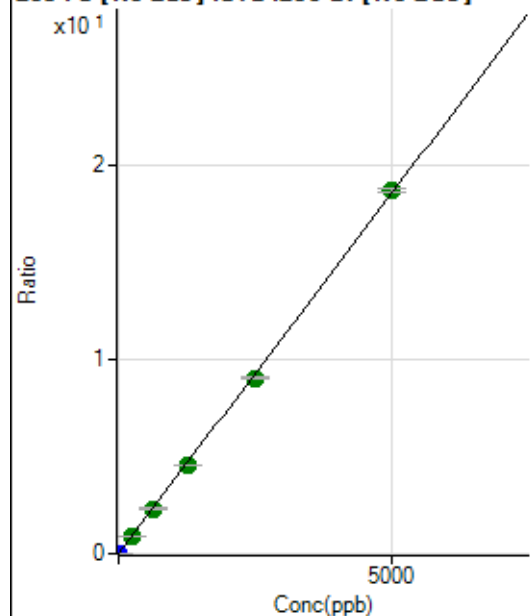
$$R = 0.9999$$

$$DL = 0.01128$$

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      | 2868.69     | 0.0006  | P    | 5.3 |
| 2 | <input type="checkbox"/> | 1.000    | 0.889      | 19578.39    | 0.0039  | P    | 1.3 |
| 3 | <input type="checkbox"/> | 250.000  | 236.830    | 4555058.80  | 0.8792  | A    | 0.6 |
| 4 | <input type="checkbox"/> | 625.000  | 625.283    | 11674305.06 | 2.3204  | A    | 1.4 |
| 5 | <input type="checkbox"/> | 1250.000 | 1226.831   | 23383638.66 | 4.5522  | A    | 1.7 |
| 6 | <input type="checkbox"/> | 2500.000 | 2439.326   | 46558442.01 | 9.0506  | A    | 1.0 |
| 7 | <input type="checkbox"/> | 5000.000 | 5036.752   | 96056812.10 | 18.6872 | A    | 1.0 |
| 8 | <input type="checkbox"/> |          |            | 18085.86    | 0.0041  | P    | 8.3 |

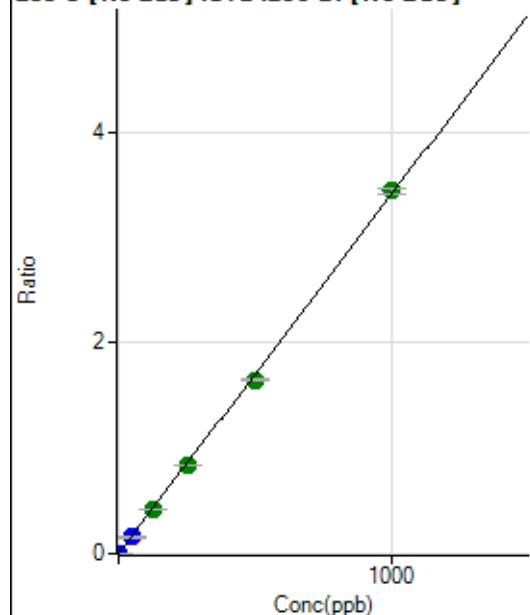
$$y = 0.0037 * x + 5.8426E-004$$

$$R = 0.9999$$

$$DL = 0.02494$$

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      | 11.11       | 0.0000 | P        | 112. |
| 2 | <input type="checkbox"/> | 1.000    | 0.903      | 15515.46    | 0.0031 | P        | 2.4  |
| 3 | <input type="checkbox"/> | 50.000   | 45.644     | 805682.00   | 0.1555 | P        | 0.7  |
| 4 | <input type="checkbox"/> | 125.000  | 123.395    | 2115288.98  | 0.4204 | A        | 1.3  |
| 5 | <input type="checkbox"/> | 250.000  | 246.673    | 4317351.49  | 0.8404 | A        | 0.7  |
| 6 | <input type="checkbox"/> | 500.000  | 482.858    | 8462965.73  | 1.6452 | A        | 1.5  |
| 7 | <input type="checkbox"/> | 1000.000 | 1009.821   | 17685027.65 | 3.4406 | A        | 1.4  |
| 8 | <input type="checkbox"/> |          |            | 1102.93     | 0.0003 | P        | 13.1 |

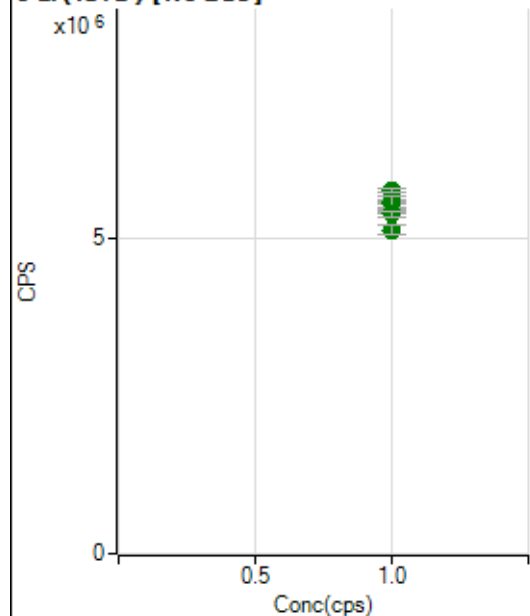
$$y = 0.0034 * x + 2.2544E-006$$

$$R = 0.9998$$

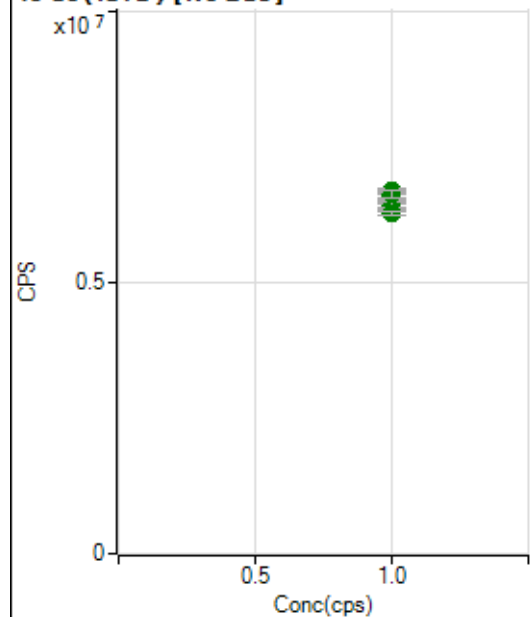
$$DL = 0.002237$$

Weight: &lt;None&gt;

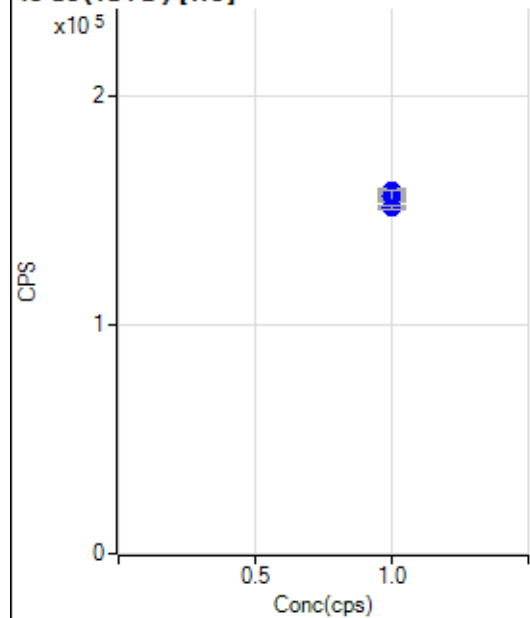
Min Conc: 0

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

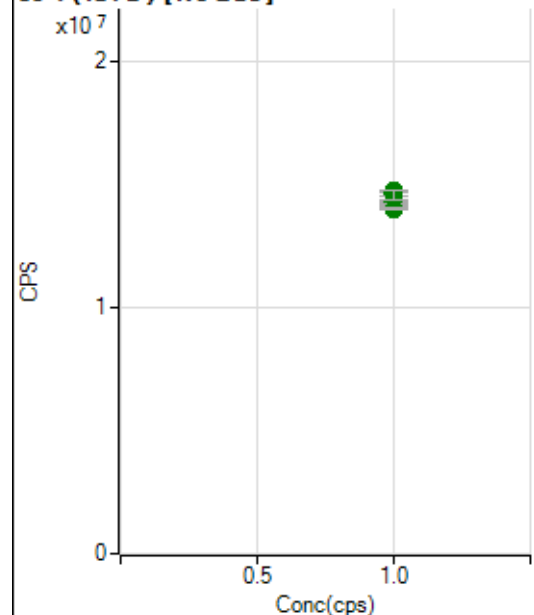
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 5540766.16 |       | A        | 2.0 |
| 2 | <input type="checkbox"/> | 1.000 |            | 5565705.49 |       | A        | 1.2 |
| 3 | <input type="checkbox"/> | 1.000 |            | 5743919.47 |       | A        | 1.1 |
| 4 | <input type="checkbox"/> | 1.000 |            | 5477807.21 |       | A        | 3.3 |
| 5 | <input type="checkbox"/> | 1.000 |            | 5549544.18 |       | A        | 2.2 |
| 6 | <input type="checkbox"/> | 1.000 |            | 5561166.95 |       | A        | 3.5 |
| 7 | <input type="checkbox"/> | 1.000 |            | 5385954.52 |       | A        | 1.6 |
| 8 | <input type="checkbox"/> | 1.000 |            | 5120878.86 |       | A        | 2.7 |

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

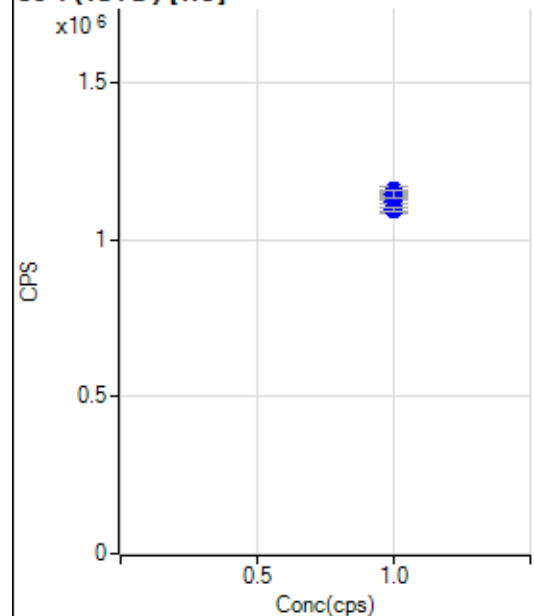
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 6417647.54 |       | A        | 2.2 |
| 2 | <input type="checkbox"/> | 1.000 |            | 6489458.38 |       | A        | 1.6 |
| 3 | <input type="checkbox"/> | 1.000 |            | 6655957.05 |       | A        | 1.2 |
| 4 | <input type="checkbox"/> | 1.000 |            | 6600211.08 |       | A        | 1.9 |
| 5 | <input type="checkbox"/> | 1.000 |            | 6426494.07 |       | A        | 1.7 |
| 6 | <input type="checkbox"/> | 1.000 |            | 6689275.39 |       | A        | 1.8 |
| 7 | <input type="checkbox"/> | 1.000 |            | 6624851.36 |       | A        | 2.3 |
| 8 | <input type="checkbox"/> | 1.000 |            | 6278395.11 |       | A        | 1.0 |

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

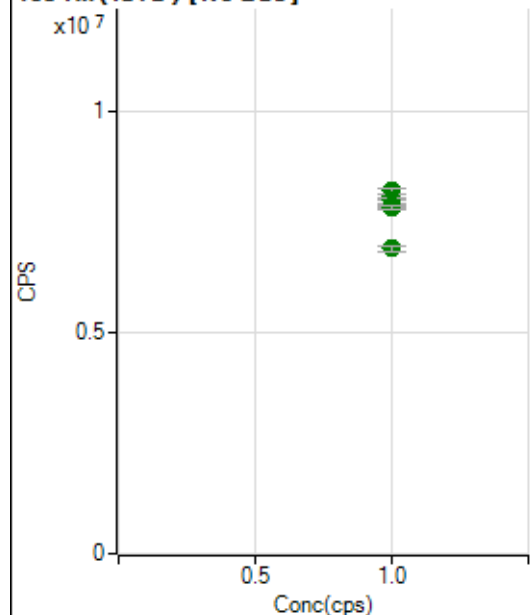
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS       | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-----------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 153779.88 |       | P        | 3.5 |
| 2 | <input type="checkbox"/> | 1.000 |            | 156204.20 |       | P        | 2.6 |
| 3 | <input type="checkbox"/> | 1.000 |            | 158571.65 |       | P        | 1.5 |
| 4 | <input type="checkbox"/> | 1.000 |            | 155542.68 |       | P        | 1.0 |
| 5 | <input type="checkbox"/> | 1.000 |            | 156219.02 |       | P        | 1.2 |
| 6 | <input type="checkbox"/> | 1.000 |            | 156654.75 |       | P        | 0.9 |
| 7 | <input type="checkbox"/> | 1.000 |            | 156653.34 |       | P        | 3.2 |
| 8 | <input type="checkbox"/> | 1.000 |            | 151182.88 |       | P        | 0.9 |

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

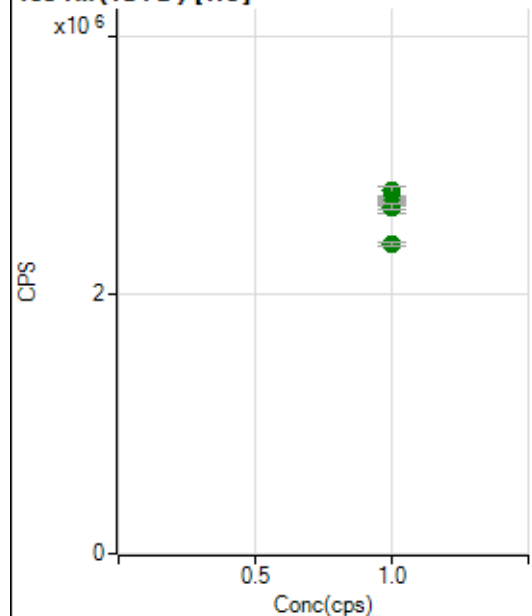
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 14350953.54 |       | A        | 1.1 |
| 2 | <input type="checkbox"/> | 1.000 |            | 14389066.59 |       | A        | 0.5 |
| 3 | <input type="checkbox"/> | 1.000 |            | 14763285.75 |       | A        | 0.5 |
| 4 | <input type="checkbox"/> | 1.000 |            | 14276711.59 |       | A        | 1.2 |
| 5 | <input type="checkbox"/> | 1.000 |            | 14344500.62 |       | A        | 1.1 |
| 6 | <input type="checkbox"/> | 1.000 |            | 14688676.45 |       | A        | 1.4 |
| 7 | <input type="checkbox"/> | 1.000 |            | 14624845.48 |       | A        | 2.8 |
| 8 | <input type="checkbox"/> | 1.000 |            | 14041201.32 |       | A        | 0.4 |

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

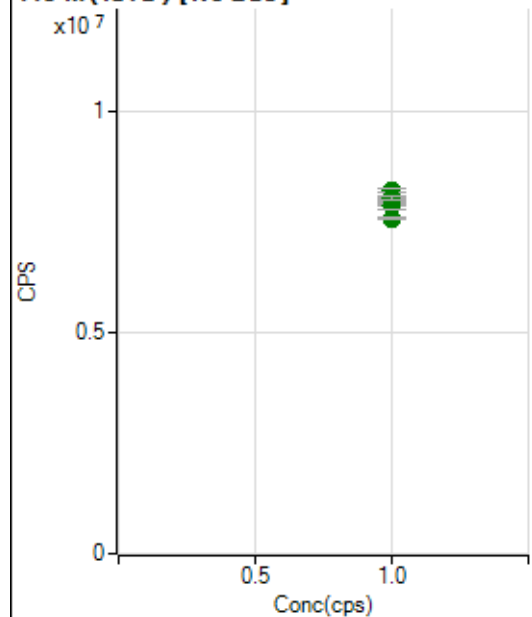
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 1104780.97 |       | P        | 3.7 |
| 2 | <input type="checkbox"/> | 1.000 |            | 1143873.99 |       | P        | 1.4 |
| 3 | <input type="checkbox"/> | 1.000 |            | 1135059.65 |       | P        | 0.8 |
| 4 | <input type="checkbox"/> | 1.000 |            | 1124295.99 |       | P        | 1.4 |
| 5 | <input type="checkbox"/> | 1.000 |            | 1156555.30 |       | P        | 1.9 |
| 6 | <input type="checkbox"/> | 1.000 |            | 1145914.50 |       | P        | 0.6 |
| 7 | <input type="checkbox"/> | 1.000 |            | 1146452.67 |       | P        | 2.2 |
| 8 | <input type="checkbox"/> | 1.000 |            | 1098830.09 |       | P        | 0.9 |

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

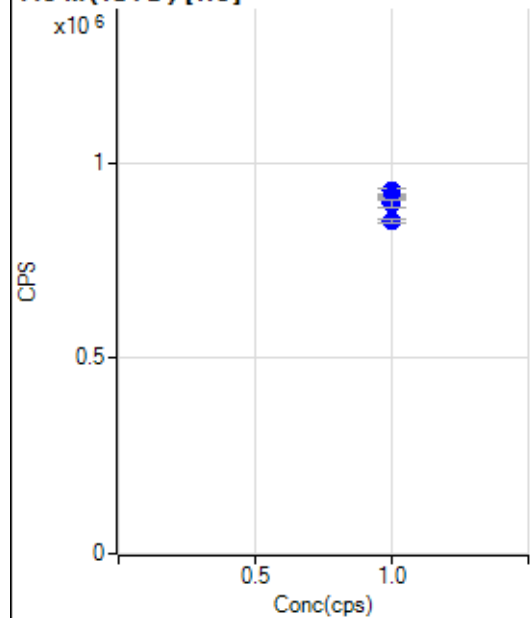
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 7926076.30 |       | A        | 2.5 |
| 2 | <input type="checkbox"/> | 1.000 |            | 8060913.98 |       | A        | 1.9 |
| 3 | <input type="checkbox"/> | 1.000 |            | 8196813.03 |       | A        | 1.4 |
| 4 | <input type="checkbox"/> | 1.000 |            | 7974981.69 |       | A        | 1.3 |
| 5 | <input type="checkbox"/> | 1.000 |            | 7885414.93 |       | A        | 0.6 |
| 6 | <input type="checkbox"/> | 1.000 |            | 7848599.05 |       | A        | 1.6 |
| 7 | <input type="checkbox"/> | 1.000 |            | 7832847.05 |       | A        | 0.9 |
| 8 | <input type="checkbox"/> | 1.000 |            | 6891874.90 |       | A        | 2.2 |

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

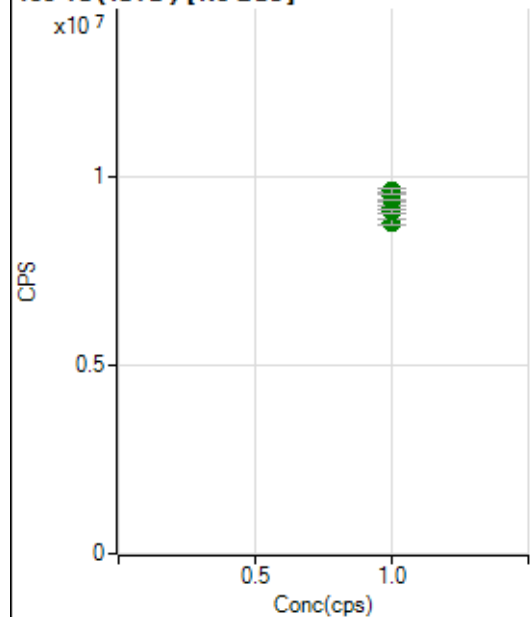
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 2676068.03 |       | A        | 3.1 |
| 2 | <input type="checkbox"/> | 1.000 |            | 2801965.72 |       | A        | 2.9 |
| 3 | <input type="checkbox"/> | 1.000 |            | 2728885.64 |       | A        | 2.0 |
| 4 | <input type="checkbox"/> | 1.000 |            | 2732217.03 |       | A        | 1.4 |
| 5 | <input type="checkbox"/> | 1.000 |            | 2736744.42 |       | A        | 0.7 |
| 6 | <input type="checkbox"/> | 1.000 |            | 2703092.32 |       | A        | 0.6 |
| 7 | <input type="checkbox"/> | 1.000 |            | 2677450.74 |       | A        | 1.7 |
| 8 | <input type="checkbox"/> | 1.000 |            | 2390889.86 |       | A        | 0.9 |

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

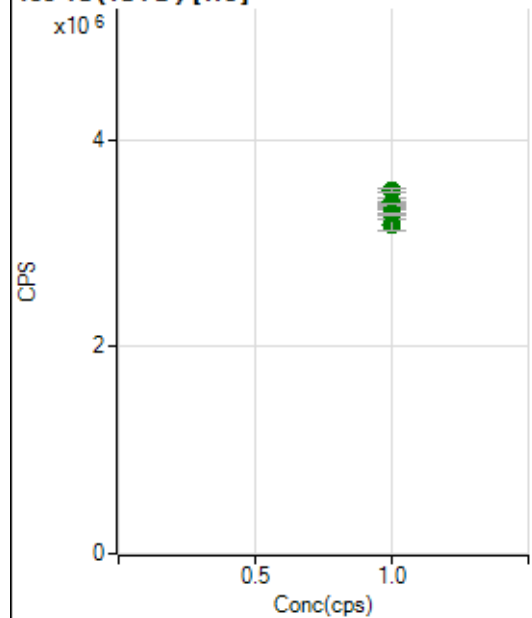
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 7953523.76 |       | A        | 2.1 |
| 2 | <input type="checkbox"/> | 1.000 |            | 7847113.59 |       | A        | 1.5 |
| 3 | <input type="checkbox"/> | 1.000 |            | 8186882.29 |       | A        | 1.0 |
| 4 | <input type="checkbox"/> | 1.000 |            | 8003070.75 |       | A        | 1.6 |
| 5 | <input type="checkbox"/> | 1.000 |            | 7860542.23 |       | A        | 2.3 |
| 6 | <input type="checkbox"/> | 1.000 |            | 7986742.71 |       | A        | 1.4 |
| 7 | <input type="checkbox"/> | 1.000 |            | 8034683.32 |       | A        | 1.3 |
| 8 | <input type="checkbox"/> | 1.000 |            | 7569204.98 |       | A        | 0.2 |

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

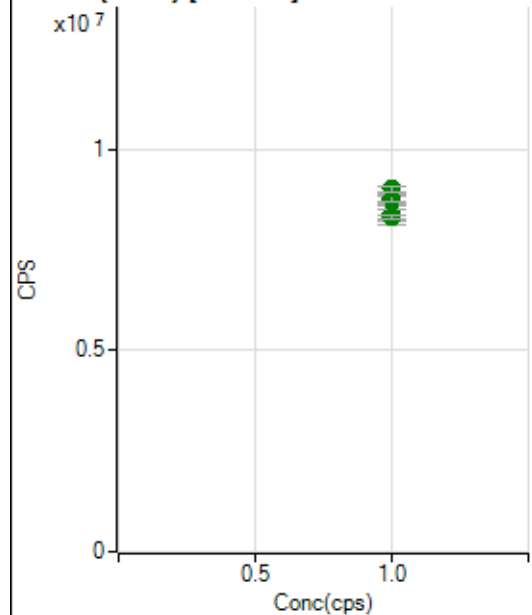
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS       | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-----------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 902684.03 |       | P        | 3.4 |
| 2 | <input type="checkbox"/> | 1.000 |            | 928208.04 |       | P        | 1.5 |
| 3 | <input type="checkbox"/> | 1.000 |            | 916840.20 |       | P        | 0.9 |
| 4 | <input type="checkbox"/> | 1.000 |            | 912580.46 |       | P        | 0.5 |
| 5 | <input type="checkbox"/> | 1.000 |            | 915298.74 |       | P        | 0.5 |
| 6 | <input type="checkbox"/> | 1.000 |            | 907713.24 |       | P        | 0.3 |
| 7 | <input type="checkbox"/> | 1.000 |            | 897122.75 |       | P        | 2.1 |
| 8 | <input type="checkbox"/> | 1.000 |            | 850540.08 |       | P        | 1.2 |

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

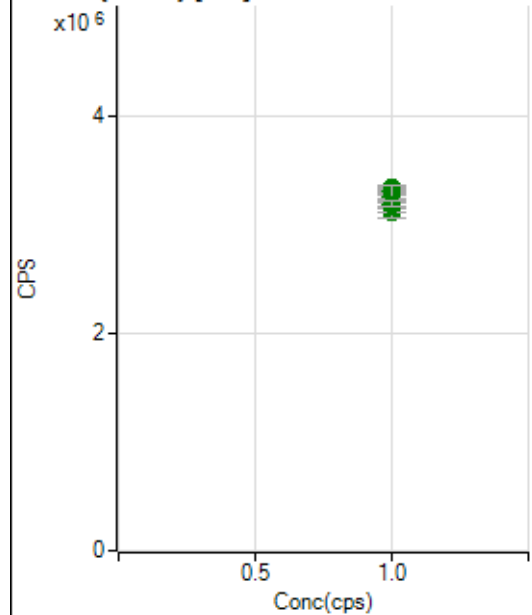
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 8796138.27 |       | A        | 1.8 |
| 2 | <input type="checkbox"/> | 1.000 |            | 8799293.20 |       | A        | 2.0 |
| 3 | <input type="checkbox"/> | 1.000 |            | 9250797.78 |       | A        | 2.5 |
| 4 | <input type="checkbox"/> | 1.000 |            | 9244717.15 |       | A        | 0.3 |
| 5 | <input type="checkbox"/> | 1.000 |            | 9193335.91 |       | A        | 1.0 |
| 6 | <input type="checkbox"/> | 1.000 |            | 9501775.07 |       | A        | 1.8 |
| 7 | <input type="checkbox"/> | 1.000 |            | 9633289.93 |       | A        | 1.4 |
| 8 | <input type="checkbox"/> | 1.000 |            | 9089896.18 |       | A        | 1.6 |

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

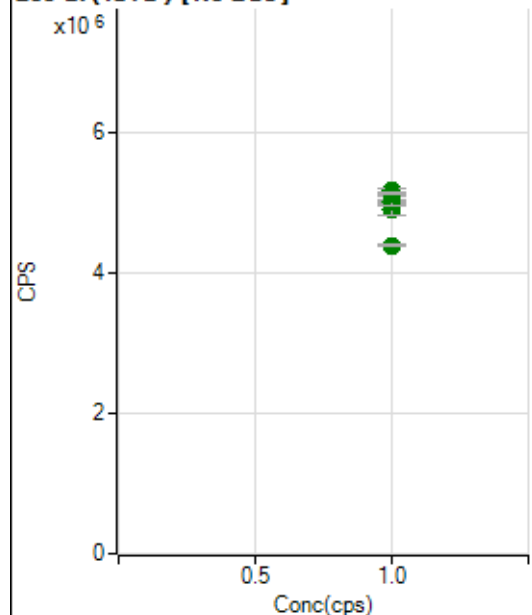
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 3182385.13 |       | A        | 3.4 |
| 2 | <input type="checkbox"/> | 1.000 |            | 3390272.80 |       | A        | 3.2 |
| 3 | <input type="checkbox"/> | 1.000 |            | 3319079.05 |       | A        | 0.1 |
| 4 | <input type="checkbox"/> | 1.000 |            | 3361233.18 |       | A        | 1.9 |
| 5 | <input type="checkbox"/> | 1.000 |            | 3398192.62 |       | A        | 2.5 |
| 6 | <input type="checkbox"/> | 1.000 |            | 3369907.38 |       | A        | 0.2 |
| 7 | <input type="checkbox"/> | 1.000 |            | 3502921.16 |       | A        | 0.9 |
| 8 | <input type="checkbox"/> | 1.000 |            | 3280623.21 |       | A        | 0.8 |

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

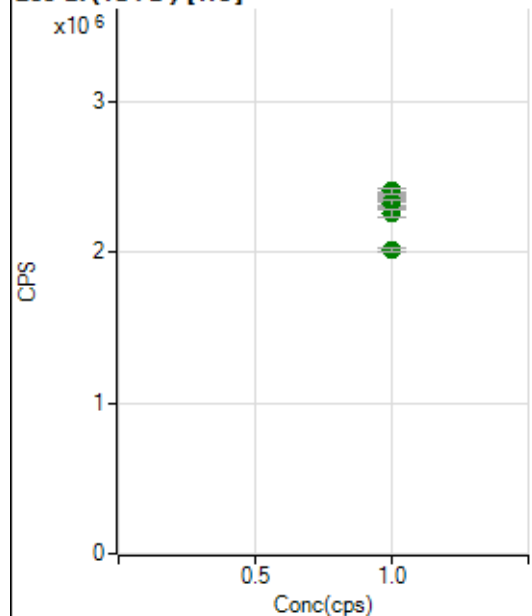
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 8415643.85 |       | A        | 4.1 |
| 2 | <input type="checkbox"/> | 1.000 |            | 8320544.11 |       | A        | 4.2 |
| 3 | <input type="checkbox"/> | 1.000 |            | 8751009.83 |       | A        | 2.7 |
| 4 | <input type="checkbox"/> | 1.000 |            | 8775850.72 |       | A        | 2.1 |
| 5 | <input type="checkbox"/> | 1.000 |            | 8736835.18 |       | A        | 2.3 |
| 6 | <input type="checkbox"/> | 1.000 |            | 8801746.20 |       | A        | 1.9 |
| 7 | <input type="checkbox"/> | 1.000 |            | 9021103.24 |       | A        | 1.8 |
| 8 | <input type="checkbox"/> | 1.000 |            | 8315539.77 |       | A        | 1.4 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 3109067.28 |       | A        | 3.0 |
| 2 | <input type="checkbox"/> | 1.000 |            | 3167240.54 |       | A        | 3.9 |
| 3 | <input type="checkbox"/> | 1.000 |            | 3255879.64 |       | A        | 1.0 |
| 4 | <input type="checkbox"/> | 1.000 |            | 3184776.24 |       | A        | 1.2 |
| 5 | <input type="checkbox"/> | 1.000 |            | 3336539.01 |       | A        | 0.5 |
| 6 | <input type="checkbox"/> | 1.000 |            | 3299909.85 |       | A        | 0.7 |
| 7 | <input type="checkbox"/> | 1.000 |            | 3299564.95 |       | A        | 3.6 |
| 8 | <input type="checkbox"/> | 1.000 |            | 3185792.21 |       | A        | 1.7 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 4915241.49 |       | A        | 3.1 |
| 2 | <input type="checkbox"/> | 1.000 |            | 5041864.54 |       | A        | 0.5 |
| 3 | <input type="checkbox"/> | 1.000 |            | 5180318.53 |       | A        | 1.8 |
| 4 | <input type="checkbox"/> | 1.000 |            | 5032372.36 |       | A        | 2.7 |
| 5 | <input type="checkbox"/> | 1.000 |            | 5136838.25 |       | A        | 1.3 |
| 6 | <input type="checkbox"/> | 1.000 |            | 5144213.19 |       | A        | 0.1 |
| 7 | <input type="checkbox"/> | 1.000 |            | 5140284.68 |       | A        | 0.3 |
| 8 | <input type="checkbox"/> | 1.000 |            | 4406795.04 |       | A        | 1.1 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 2339387.67 |       | A        | 3.9 |
| 2 | <input type="checkbox"/> | 1.000 |            | 2335881.25 |       | A        | 1.6 |
| 3 | <input type="checkbox"/> | 1.000 |            | 2346444.96 |       | A        | 0.8 |
| 4 | <input type="checkbox"/> | 1.000 |            | 2393318.82 |       | A        | 1.0 |
| 5 | <input type="checkbox"/> | 1.000 |            | 2408895.82 |       | A        | 1.6 |
| 6 | <input type="checkbox"/> | 1.000 |            | 2327900.12 |       | A        | 2.3 |
| 7 | <input type="checkbox"/> | 1.000 |            | 2260682.92 |       | A        | 2.3 |
| 8 | <input type="checkbox"/> | 1.000 |            | 2016056.43 |       | A        | 1.0 |

# US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP8082922-MS.b

Acq. Date-Time 2022-08-29 11:31:00

Report Comment ---

Instrument Name G8403A SG19224459

[No Gas]

## Sensitivity

| Mass | Conc. [ug/l] | Count | CPS       | Resp (Required) [cps/ug/l] | Resp (Flag) | RSD%   | RSD% (Required) |
|------|--------------|-------|-----------|----------------------------|-------------|--------|-----------------|
| 9    |              | 8120  | 81204.79  |                            |             | 0.833  | 5.000           |
| 24   |              | 89095 | 890945.94 |                            |             | 0.779  | 5.000           |
| 25   |              | 11739 | 117387.80 |                            |             | 0.996  | 5.000           |
| 26   |              | 13568 | 135681.67 |                            |             | 0.398  | 5.000           |
| 59   |              | 44062 | 440619.82 |                            |             | 0.652  | 5.000           |
| 113  |              | 2278  | 22776.45  |                            |             | 1.422  | 5.000           |
| 115  |              | 51390 | 513901.53 |                            |             | 0.638  | 5.000           |
| 206  |              | 9337  | 93373.63  |                            |             | 1.621  | 5.000           |
| 207  |              | 8449  | 84489.48  |                            |             | 1.095  | 5.000           |
| 208  |              | 20128 | 201279.09 |                            |             | 0.784  | 5.000           |
| 220  |              | 0     | 4.90      |                            |             | 42.930 |                 |

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

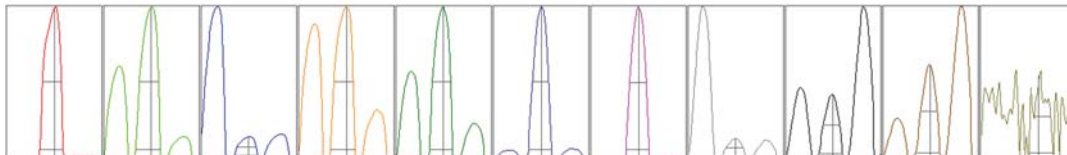
| Mass | Rep#1 Count | Rep#2 Count | Rep#3 Count | Rep#4 Count | Rep#5 Count |
|------|-------------|-------------|-------------|-------------|-------------|
| 9    | 8193        | 8031        | 8131        | 8174        | 8074        |
| 24   | 89885       | 89526       | 89328       | 88375       | 88358       |
| 25   | 11556       | 11725       | 11748       | 11790       | 11875       |
| 26   | 13617       | 13556       | 13530       | 13631       | 13507       |
| 59   | 44328       | 44205       | 43583       | 44160       | 44034       |
| 113  | 2274        | 2311        | 2293        | 2225        | 2284        |
| 115  | 51539       | 51865       | 51357       | 51034       | 51156       |
| 206  | 9331        | 9218        | 9198        | 9362        | 9577        |
| 207  | 8413        | 8540        | 8339        | 8403        | 8551        |
| 208  | 20032       | 20077       | 20099       | 20027       | 20405       |

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

Integration Time [sec] 0.1

## Resolution/Axis



| Mass | Peak Height | Axis   | Axis (Required) | Axis (Flag) |
|------|-------------|--------|-----------------|-------------|
| 9    | 14787.65    | 9.05   | 8.90 - 9.10     |             |
| 24   | 154631.89   | 24.00  | 23.90 - 24.10   |             |
| 25   | 20650.07    | 25.00  | 24.90 - 25.10   |             |
| 26   | 23375.99    | 26.05  | 25.90 - 26.10   |             |
| 59   | 81680.71    | 59.00  | 58.90 - 59.10   |             |
| 113  | 4661.80     | 113.05 | 112.90 - 113.10 |             |
| 115  | 103691.63   | 115.05 | 114.90 - 115.10 |             |
| 206  | 18562.56    | 206.00 | 205.90 - 206.10 |             |
| 207  | 16840.17    | 207.00 | 206.90 - 207.10 |             |
| 208  | 39991.09    | 208.00 | 207.90 - 208.10 |             |
| 220  | 0.75        | 220.35 | -               |             |

| Mass | W-50% | W-5%  | W-5% (Required) | W-5% (Flag) |
|------|-------|-------|-----------------|-------------|
| 9    | 0.58  | 0.734 | 0.900           |             |
| 24   | 0.60  | 0.781 | 0.900           |             |
| 25   | 0.60  | 0.740 | 0.900           |             |
| 26   | 0.61  | 0.783 | 0.900           |             |
| 59   | 0.57  | 0.735 | 0.900           |             |
| 113  | 0.50  | 0.726 | 0.900           |             |
| 115  | 0.51  | 0.723 | 0.900           |             |
| 206  | 0.53  | 0.767 | 0.900           |             |
| 207  | 0.53  | 0.740 | 0.900           |             |
| 208  | 0.52  | 0.764 | 0.900           |             |
| 220  | 0.51  | 0.738 |                 |             |

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

## Tune Parameters

### Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.87 L/min Dilution Gas 0.40 L/min

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|              |         |                |          |               |            |
|--------------|---------|----------------|----------|---------------|------------|
| RF Power     | 1600 W  | Option Gas     | ---      | Auxiliary Gas | 0.90 L/min |
| RF Matching  | 1.40 V  | Nebulizer Pump | 0.10 rps | Plasma Gas    | 15.0 L/min |
| Sample Depth | 10.0 mm | S/C Temp       | 2 °C     |               |            |

## Lens Parameters

|            |          |               |       |            |        |
|------------|----------|---------------|-------|------------|--------|
| Extract 1  | -6.0 V   | Omega Lens    | 9.7 V | Deflect    | 15.2 V |
| Extract 2  | -155.0 V | Cell Entrance | -30 V | Plate Bias | -50 V  |
| Omega Bias | -80 V    | Cell Exit     | -50 V |            |        |

## Cell Parameters

|         |            |              |        |                       |       |
|---------|------------|--------------|--------|-----------------------|-------|
| Use Gas | No         | 3rd Gas Flow | ---    | Energy Discrimination | 4.0 V |
| He Flow | 0.0 mL/min | OctP Bias    | -8.0 V |                       |       |
| H2 Flow | ---        | OctP RF      | 140 V  |                       |       |

## QP Parameters

|             |     |             |        |         |        |
|-------------|-----|-------------|--------|---------|--------|
| Mass Gain   | 124 | Axis Gain   | 0.9993 | QP Bias | -4.0 V |
| Mass Offset | 125 | Axis Offset | 0.00   |         |        |

## Hardware Settings

### Torch

|         |        |         |         |
|---------|--------|---------|---------|
| Torch H | 0.8 mm | Torch V | -1.0 mm |
|---------|--------|---------|---------|

### EM

|               |        |           |        |          |        |
|---------------|--------|-----------|--------|----------|--------|
| Discriminator | 4.4 mV | Analog HV | 2303 V | Pulse HV | 1627 V |
|---------------|--------|-----------|--------|----------|--------|

[He]

## Sensitivity

| Mass | Conc. [ug/l] | Count | CPS       | Resp (Required) [cps/ug/l] | Resp (Flag) | RSD%  | RSD% (Required) |
|------|--------------|-------|-----------|----------------------------|-------------|-------|-----------------|
| 59   |              | 6745  | 67454.18  |                            |             | 0.837 |                 |
| 89   |              | 12165 | 121648.09 |                            |             | 0.959 |                 |
| 205  |              | 34526 | 345260.68 |                            |             | 1.453 |                 |

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

| Mass | Rep#1 Count | Rep#2 Count | Rep#3 Count | Rep#4 Count | Rep#5 Count |
|------|-------------|-------------|-------------|-------------|-------------|
| 59   | 6682        | 6761        | 6765        | 6821        | 6697        |
| 89   | 12224       | 12300       | 11987       | 12137       | 12177       |
| 205  | 34816       | 34956       | 34178       | 34863       | 33817       |

Integration Time [sec] 0.1

## Tune Parameters

### Plasma Parameters

|              |         |                |            |               |            |
|--------------|---------|----------------|------------|---------------|------------|
| Plasma Mode  | ---     | Nebulizer Gas  | 0.87 L/min | Dilution Gas  | 0.40 L/min |
| RF Power     | 1600 W  | Option Gas     | ---        | Auxiliary Gas | 0.90 L/min |
| RF Matching  | 1.40 V  | Nebulizer Pump | 0.10 rps   | Plasma Gas    | 15.0 L/min |
| Sample Depth | 10.0 mm | S/C Temp       | 2 °C       |               |            |

### Lens Parameters

|           |        |            |       |         |       |
|-----------|--------|------------|-------|---------|-------|
| Extract 1 | -6.0 V | Omega Lens | 9.7 V | Deflect | 4.8 V |
|-----------|--------|------------|-------|---------|-------|

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|            |          |               |       |            |       |
|------------|----------|---------------|-------|------------|-------|
| Extract 2  | -155.0 V | Cell Entrance | -50 V | Plate Bias | -60 V |
| Omega Bias | -80 V    | Cell Exit     | -70 V |            |       |

## Cell Parameters

|         |            |              |         |                       |       |
|---------|------------|--------------|---------|-----------------------|-------|
| Use Gas | Yes        | 3rd Gas Flow | ---     | Energy Discrimination | 5.0 V |
| He Flow | 4.5 mL/min | OctP Bias    | -18.0 V |                       |       |
| H2 Flow | ---        | OctP RF      | 200 V   |                       |       |

## QP Parameters

|             |     |             |        |         |         |
|-------------|-----|-------------|--------|---------|---------|
| Mass Gain   | 124 | Axis Gain   | 0.9993 | QP Bias | -13.0 V |
| Mass Offset | 125 | Axis Offset | 0.00   |         |         |

## Hardware Settings

### Torch

|         |        |         |         |
|---------|--------|---------|---------|
| Torch H | 0.8 mm | Torch V | -1.0 mm |
|---------|--------|---------|---------|

### EM

|               |        |           |        |          |        |
|---------------|--------|-----------|--------|----------|--------|
| Discriminator | 4.4 mV | Analog HV | 2303 V | Pulse HV | 1627 V |
|---------------|--------|-----------|--------|----------|--------|