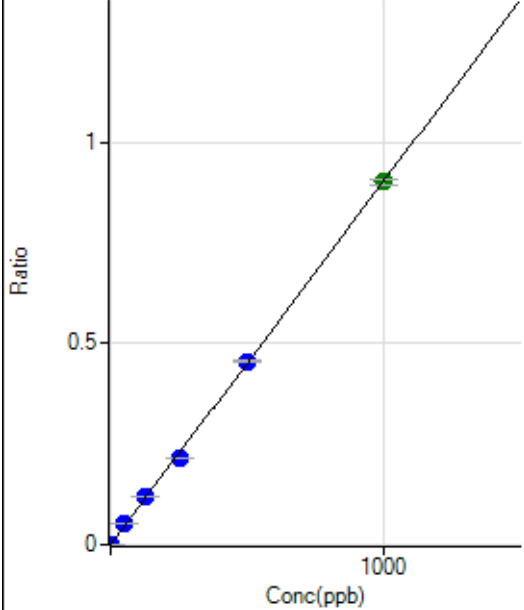


# Calibration for 006CALS.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P7122024MS3.b\  
 Analysis File: P7122024MS3.batch.bin  
 DA Date-Time: 2024-12-22 13:13:44  
 Calibration Title:  
 Calibration Method: External Calibration  
 VIS Interpolation Fit:

| Level | Standard Data File | Sample Name | Acq. Date-Time      |
|-------|--------------------|-------------|---------------------|
| 1     | 004CALB.d          | S00         | 2024-12-20 19:34:02 |
| 2     | 006CALS.d          | S02         | 2024-12-20 19:40:37 |
| 3     | 007CALS.d          | S03         | 2024-12-20 19:43:53 |
| 4     | 008CALS.d          | S04         | 2024-12-20 19:46:53 |
| 5     | 009CALS.d          | S05         | 2024-12-20 19:49:43 |
| 6     | 010CALS.d          | S06         | 2024-12-20 19:52:31 |
| 7     | 011CALS.d          | S07         | 2024-12-20 19:55:15 |
| 8     | 012CALS.d          | S08         | 2024-12-20 19:58:02 |

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      | 46.67      | 0.0000 | P   | 24. |
| 2 | <input type="checkbox"/> | 1.000    | 1.217      | 1852.35    | 0.0011 | P   | 4.6 |
| 3 | <input type="checkbox"/> | 50.000   | 58.282     | 90647.77   | 0.0526 | P   | 0.7 |
| 4 | <input type="checkbox"/> | 125.000  | 134.060    | 215835.83  | 0.1210 | P   | 0.5 |
| 5 | <input type="checkbox"/> | 250.000  | 237.938    | 393516.41  | 0.2147 | P   | 1.3 |
| 6 | <input type="checkbox"/> | 500.000  | 505.411    | 828087.06  | 0.4560 | P   | 0.9 |
| 7 | <input type="checkbox"/> | 1000.000 | 998.763    | 1616751.61 | 0.9012 | A   | 1.7 |
| 8 | <input type="checkbox"/> |          |            | 408.90     | 0.0002 | P   | 6.3 |

$y = 9.0224E-004 * x + 2.8768E-005$

R = 0.9998

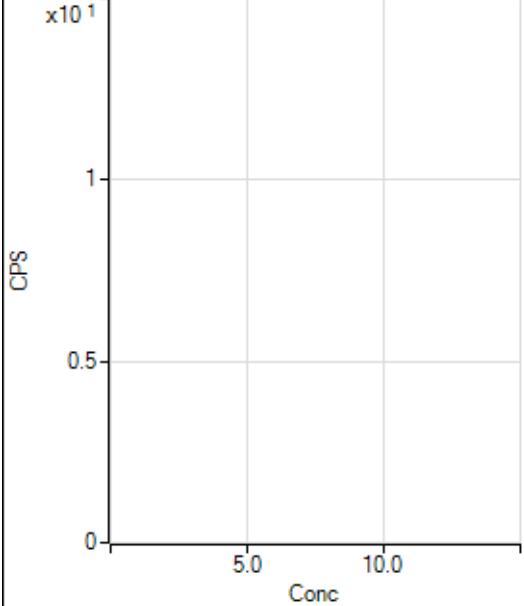
DL = 0.02373

BEC = 0.03189

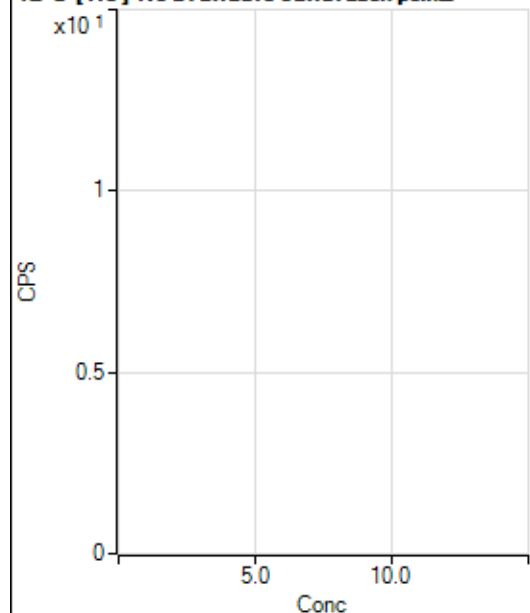
Weight: <None>

Min Conc: 0

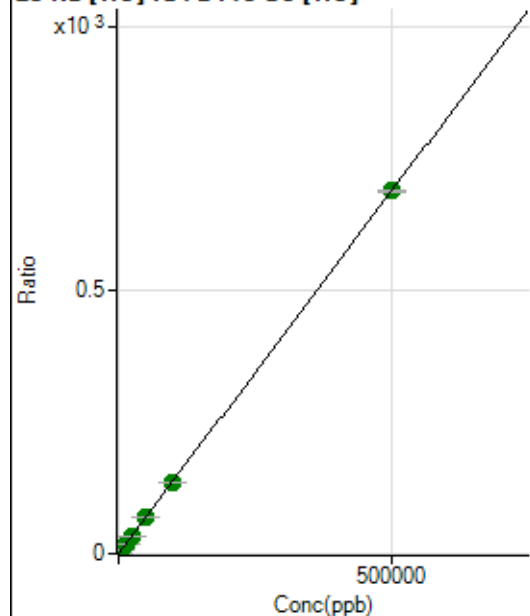
12 C [No Gas] No available calibration points



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

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

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

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS          | Ratio    | Det | RSD |
|---|--------------------------|-----------|------------|--------------|----------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 22565.52     | 0.0333   | P   | 2.1 |
| 2 | <input type="checkbox"/> | 500.000   | 500.614    | 490171.95    | 0.7221   | P   | 0.4 |
| 3 | <input type="checkbox"/> | 5000.000  | 5182.962   | 4790752.18   | 7.1643   | A   | 1.1 |
| 4 | <input type="checkbox"/> | 12500.000 | 12436.980  | 10886854.84  | 17.1448  | A   | 0.6 |
| 5 | <input type="checkbox"/> | 25000.000 | 23092.117  | 19072719.86  | 31.8047  | A   | 0.4 |
| 6 | <input type="checkbox"/> | 50000.000 | 49790.253  | 39113560.25  | 68.5374  | A   | 0.3 |
| 7 | <input type="checkbox"/> | 100000.00 | 98767.027  | 75795918.87  | 135.9223 | A   | 0.2 |
| 8 | <input type="checkbox"/> | 500000.00 | 500362.70  | 409808393.89 | 688.4592 | A   | 0.2 |

$$y = 0.0014 * x + 0.0333$$

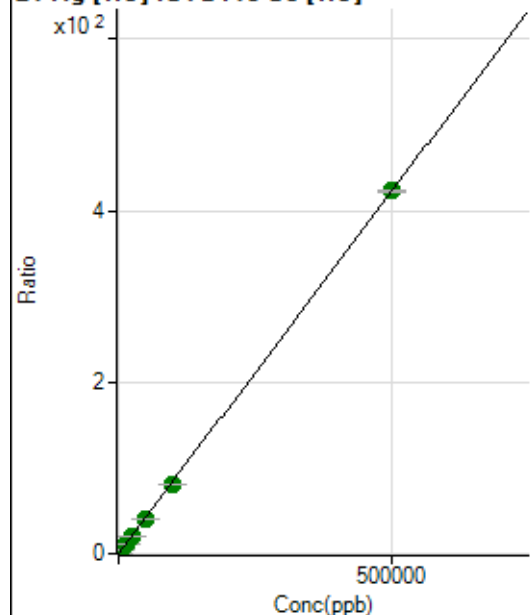
$$R = 1.0000$$

$$DL = 1.496$$

$$BEC = 24.23$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS          | Ratio    | Det | RSD |
|---|--------------------------|-----------|------------|--------------|----------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 888.92       | 0.0013   | P   | 1.9 |
| 2 | <input type="checkbox"/> | 500.000   | 529.917    | 304719.61    | 0.4489   | P   | 0.4 |
| 3 | <input type="checkbox"/> | 5000.000  | 5139.996   | 2904132.87   | 4.3428   | A   | 0.5 |
| 4 | <input type="checkbox"/> | 12500.000 | 12199.300  | 6543951.29   | 10.3055  | A   | 0.5 |
| 5 | <input type="checkbox"/> | 25000.000 | 22647.612  | 11471692.47  | 19.1307  | A   | 0.6 |
| 6 | <input type="checkbox"/> | 50000.000 | 48950.686  | 23596490.76  | 41.3477  | A   | 0.4 |
| 7 | <input type="checkbox"/> | 100000.00 | 96589.470  | 45496003.21  | 81.5860  | A   | 0.1 |
| 8 | <input type="checkbox"/> | 500000.00 | 500910.74  | 251848045.14 | 423.0977 | A   | 0.5 |

$$y = 8.4465\text{E-}004 * x + 0.0013$$

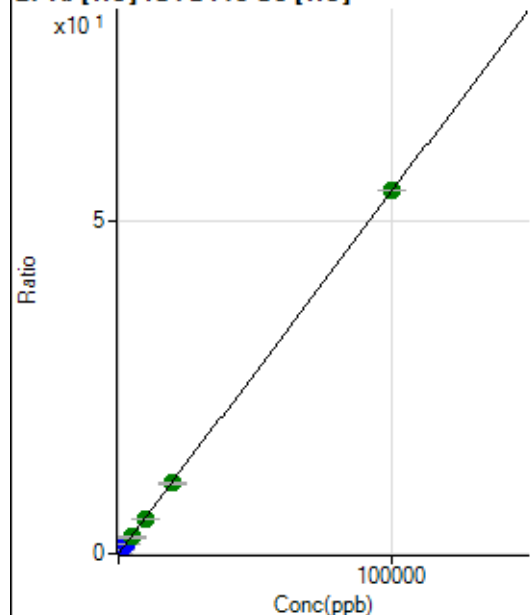
$$R = 1.0000$$

$$DL = 0.08852$$

$$BEC = 1.554$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS         | Ratio   | Det | RSD |
|---|--------------------------|-----------|------------|-------------|---------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 291.12      | 0.0004  | P   | 12. |
| 2 | <input type="checkbox"/> | 20.000    | 19.854     | 7647.52     | 0.0113  | P   | 1.9 |
| 3 | <input type="checkbox"/> | 1000.000  | 1006.658   | 367663.48   | 0.5498  | P   | 0.7 |
| 4 | <input type="checkbox"/> | 2500.000  | 2402.211   | 832753.46   | 1.3114  | P   | 0.6 |
| 5 | <input type="checkbox"/> | 5000.000  | 4526.719   | 1481636.18  | 2.4708  | A   | 1.0 |
| 6 | <input type="checkbox"/> | 10000.000 | 9775.161   | 3044726.00  | 5.3351  | A   | 0.6 |
| 7 | <input type="checkbox"/> | 20000.000 | 19384.052  | 5899331.09  | 10.5791 | A   | 0.3 |
| 8 | <input type="checkbox"/> | 100000.00 | 100171.71  | 32541572.01 | 54.6683 | A   | 0.1 |

$$y = 5.4574\text{E-}004 * x + 4.2998\text{E-}004$$

$$R = 1.0000$$

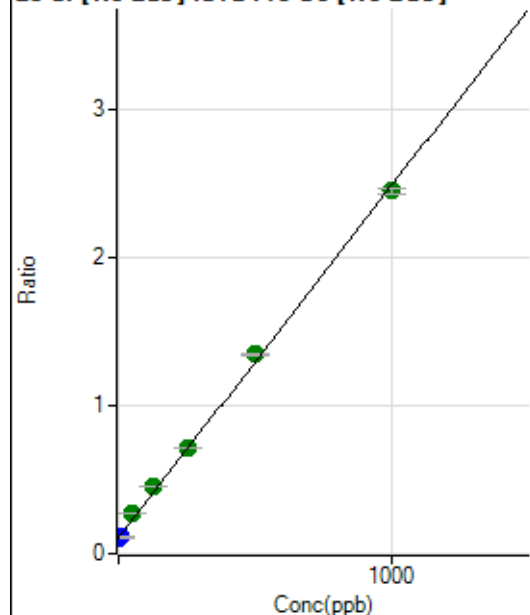
$$DL = 0.2965$$

$$BEC = 0.7879$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|-------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 770092.57   | 0.1072 | P   | 1.9 |
| 2 | <input type="checkbox"/> | 10.000   | 1.432      | 806257.60   | 0.1106 | P   | 1.5 |
| 3 | <input type="checkbox"/> | 50.000   | 69.391     | 2004457.31  | 0.2718 | A   | 1.4 |
| 4 | <input type="checkbox"/> | 125.000  | 144.733    | 3233969.85  | 0.4506 | A   | 1.2 |
| 5 | <input type="checkbox"/> | 250.000  | 253.549    | 4897207.91  | 0.7089 | A   | 0.3 |
| 6 | <input type="checkbox"/> | 500.000  | 521.207    | 8925995.98  | 1.3441 | A   | 1.1 |
| 7 | <input type="checkbox"/> | 1000.000 | 985.159    | 15668970.46 | 2.4452 | A   | 1.4 |
| 8 | <input type="checkbox"/> |          |            | 702463.29   | 0.1101 | P   | 0.8 |

$$y = 0.0024 * x + 0.1072$$

$$R = 0.9993$$

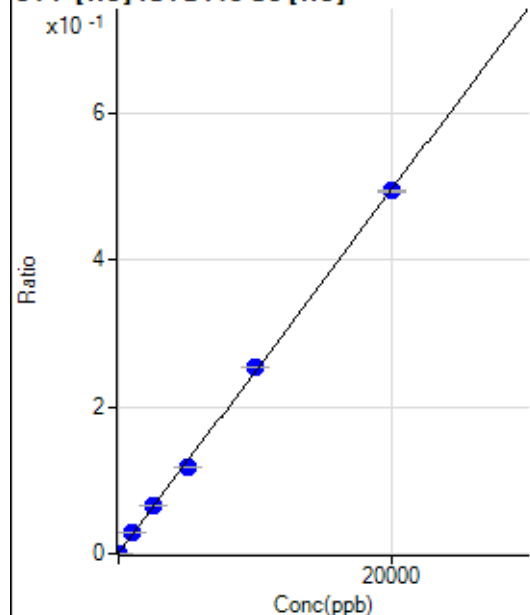
$$DL = 2.618$$

$$BEC = 45.15$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS       | Ratio  | Det | RSD |
|---|--------------------------|-----------|------------|-----------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000     | -16.835    | 177.78    | 0.0003 | P   | 18. |
| 2 | <input type="checkbox"/> | 0.000     | 16.835     | 743.36    | 0.0011 | P   | 8.9 |
| 3 | <input type="checkbox"/> | 1000.000  | 1091.582   | 18504.61  | 0.0277 | P   | 0.5 |
| 4 | <input type="checkbox"/> | 2500.000  | 2640.712   | 41893.86  | 0.0660 | P   | 1.3 |
| 5 | <input type="checkbox"/> | 5000.000  | 4728.105   | 70512.49  | 0.1176 | P   | 0.9 |
| 6 | <input type="checkbox"/> | 10000.000 | 10216.094  | 144550.21 | 0.2533 | P   | 0.6 |
| 7 | <input type="checkbox"/> | 20000.000 | 19937.759  | 275302.07 | 0.4937 | P   | 0.3 |
| 8 | <input type="checkbox"/> |           |            | 298.89    | 0.0005 | P   | 13. |

$$y = 2.4727E-005 * x + 6.7882E-004$$

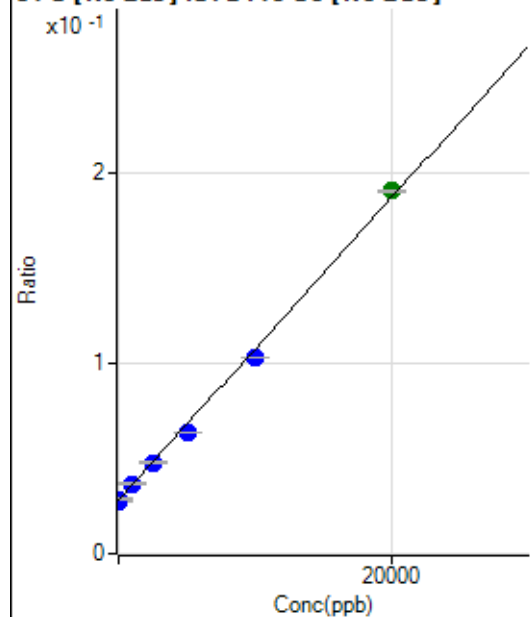
$$R = 0.9998$$

$$DL = 8.852$$

$$BEC = 27.45$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS        | Ratio  | Det | RSD |
|---|--------------------------|-----------|------------|------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000     | -65.957    | 199004.35  | 0.0277 | P   | 2.7 |
| 2 | <input type="checkbox"/> | 0.000     | 65.957     | 209621.40  | 0.0287 | P   | 1.3 |
| 3 | <input type="checkbox"/> | 1000.000  | 1051.896   | 269731.04  | 0.0366 | P   | 1.9 |
| 4 | <input type="checkbox"/> | 2500.000  | 2473.028   | 343627.33  | 0.0479 | P   | 0.5 |
| 5 | <input type="checkbox"/> | 5000.000  | 4431.741   | 438364.75  | 0.0635 | P   | 0.6 |
| 6 | <input type="checkbox"/> | 10000.000 | 9419.080   | 684773.68  | 0.1031 | P   | 0.8 |
| 7 | <input type="checkbox"/> | 20000.000 | 20433.301  | 1221954.67 | 0.1907 | A   | 0.8 |
| 8 | <input type="checkbox"/> |           |            | 186843.35  | 0.0293 | P   | 3.3 |

$$y = 7.9513E-006 * x + 0.0282$$

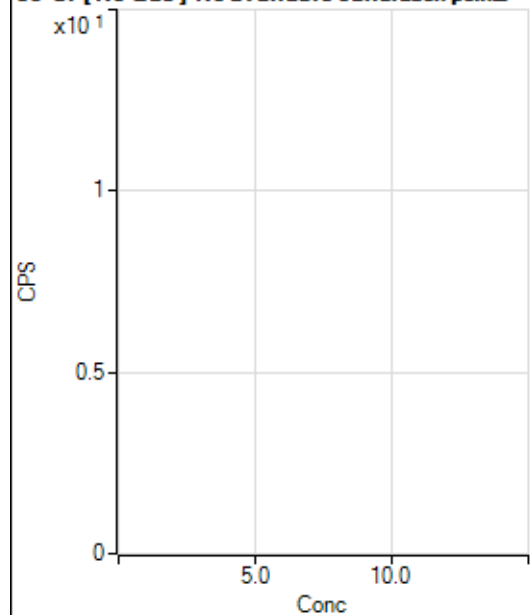
R = 0.9989

DL = 212.5

BEC = 3549

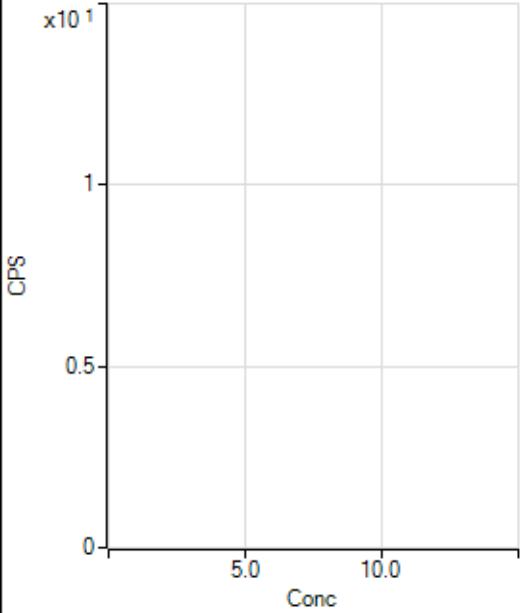
Weight: <None>

Min Conc: 0

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

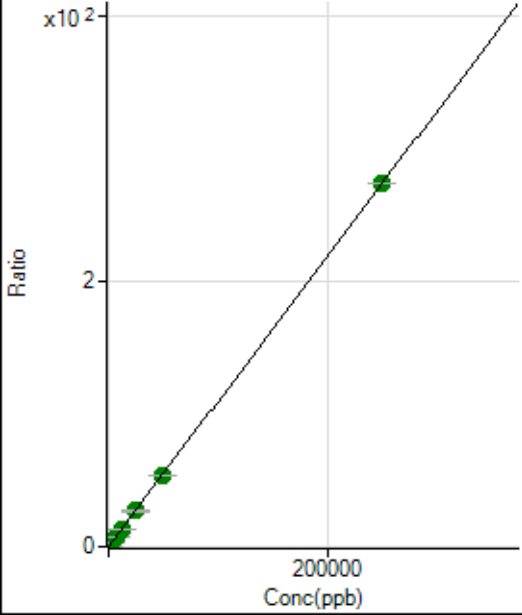
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS | Ratio | Det | RSD |
|---|--------------------------|-------|------------|-----|-------|-----|-----|
| 1 | <input type="checkbox"/> |       |            |     |       |     |     |
| 2 | <input type="checkbox"/> |       |            |     | 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

35 Cl [He] No available calibration points



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

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



|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS          | Ratio    | Det | RSD |
|---|--------------------------|-----------|------------|--------------|----------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 70571.36     | 0.1042   | P   | 0.3 |
| 2 | <input type="checkbox"/> | 500.000   | 539.420    | 471167.34    | 0.6941   | P   | 0.5 |
| 3 | <input type="checkbox"/> | 2500.000  | 2656.075   | 2012087.75   | 3.0088   | A   | 0.5 |
| 4 | <input type="checkbox"/> | 6250.000  | 6270.521   | 4420555.35   | 6.9614   | A   | 1.2 |
| 5 | <input type="checkbox"/> | 12500.000 | 11406.594  | 7542640.93   | 12.5779  | A   | 0.4 |
| 6 | <input type="checkbox"/> | 25000.000 | 24519.057  | 15360827.55  | 26.9171  | A   | 0.9 |
| 7 | <input type="checkbox"/> | 50000.000 | 48681.511  | 29744713.17  | 53.3399  | A   | 0.7 |
| 8 | <input type="checkbox"/> | 250000.00 | 250364.31  | 163034792.02 | 273.8902 | A   | 0.1 |

$y = 0.0011 * x + 0.1042$

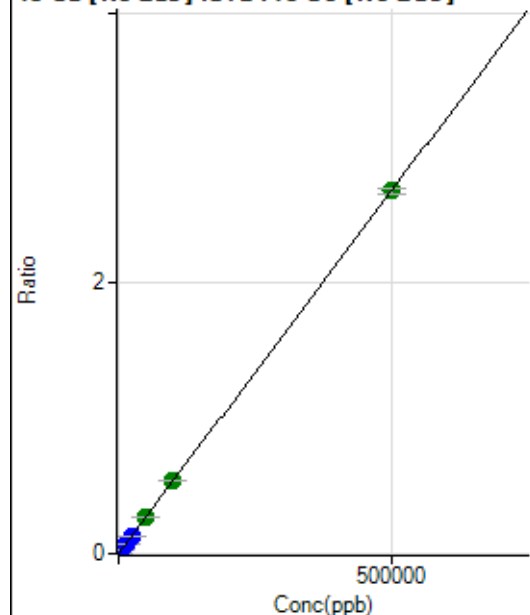
$R = 1.0000$

$DL = 0.9409$

$BEC = 95.32$

Weight: <None>

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS         | Ratio  | Det | RSD |
|---|--------------------------|-----------|------------|-------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 457.79      | 0.0001 | P   | 7.5 |
| 2 | <input type="checkbox"/> | 500.000   | 544.452    | 21765.71    | 0.0030 | P   | 0.5 |
| 3 | <input type="checkbox"/> | 5000.000  | 5493.163   | 217769.48   | 0.0295 | P   | 0.4 |
| 4 | <input type="checkbox"/> | 12500.000 | 13035.132  | 502284.11   | 0.0700 | P   | 0.4 |
| 5 | <input type="checkbox"/> | 25000.000 | 24141.538  | 895046.23   | 0.1296 | P   | 0.6 |
| 6 | <input type="checkbox"/> | 50000.000 | 50447.945  | 1797720.06  | 0.2707 | A   | 0.4 |
| 7 | <input type="checkbox"/> | 100000.00 | 99933.490  | 3435539.15  | 0.5361 | A   | 1.0 |
| 8 | <input type="checkbox"/> | 500000.00 | 499993.07  | 17113429.05 | 2.6822 | A   | 1.5 |

$$y = 5.3643\text{E-}006 * x + 6.3650\text{E-}005$$

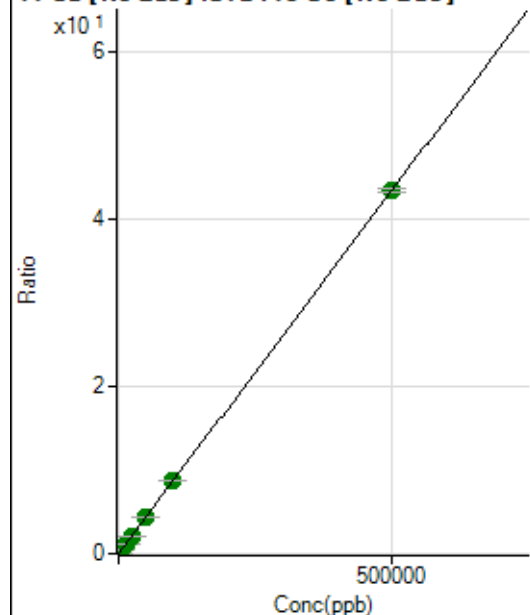
$$R = 1.0000$$

$$DL = 2.655$$

$$BEC = 11.87$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS          | Ratio   | Det | RSD |
|---|--------------------------|-----------|------------|--------------|---------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 14653.13     | 0.0020  | P   | 1.1 |
| 2 | <input type="checkbox"/> | 500.000   | 551.257    | 363938.57    | 0.0499  | P   | 1.1 |
| 3 | <input type="checkbox"/> | 5000.000  | 5321.117   | 3422188.66   | 0.4641  | A   | 0.7 |
| 4 | <input type="checkbox"/> | 12500.000 | 12614.663  | 7875456.62   | 1.0973  | A   | 0.5 |
| 5 | <input type="checkbox"/> | 25000.000 | 23355.350  | 14022924.65  | 2.0299  | A   | 0.7 |
| 6 | <input type="checkbox"/> | 50000.000 | 50477.788  | 29120865.40  | 4.3849  | A   | 0.8 |
| 7 | <input type="checkbox"/> | 100000.00 | 100074.84  | 55691208.61  | 8.6914  | A   | 1.4 |
| 8 | <input type="checkbox"/> | 500000.00 | 500013.35  | 277021231.43 | 43.4174 | A   | 1.0 |

$$y = 8.6828\text{E-}005 * x + 0.0020$$

$$R = 1.0000$$

$$DL = 0.7973$$

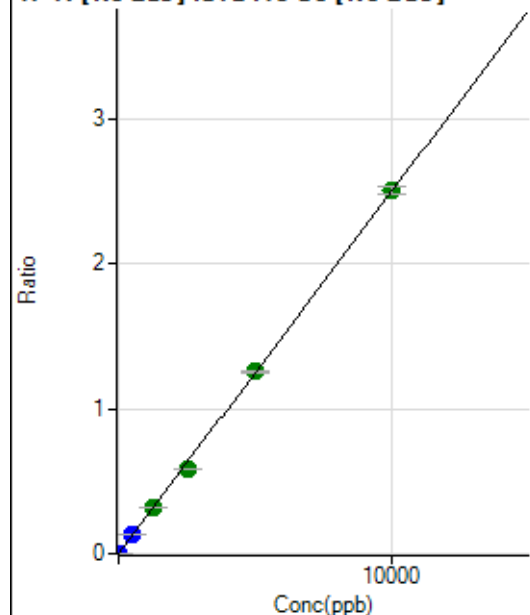
$$BEC = 23.48$$

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      | 78.89       | 0.0000 | P   | 14. |
| 2 | <input type="checkbox"/> | 5.000     | 5.340      | 9795.47     | 0.0013 | P   | 1.7 |
| 3 | <input type="checkbox"/> | 500.000   | 526.933    | 969511.76   | 0.1315 | P   | 0.5 |
| 4 | <input type="checkbox"/> | 1250.000  | 1267.938   | 2270157.52  | 0.3163 | A   | 0.5 |
| 5 | <input type="checkbox"/> | 2500.000  | 2347.497   | 4045799.77  | 0.5857 | A   | 0.4 |
| 6 | <input type="checkbox"/> | 5000.000  | 5029.386   | 8332663.42  | 1.2547 | A   | 1.0 |
| 7 | <input type="checkbox"/> | 10000.000 | 10019.844  | 16016210.60 | 2.4997 | A   | 2.0 |
| 8 | <input type="checkbox"/> |           |            | 2110.17     | 0.0003 | P   | 7.2 |

$$y = 2.4948\text{E-}004 * x + 1.0989\text{E-}005$$

$$R = 0.9998$$

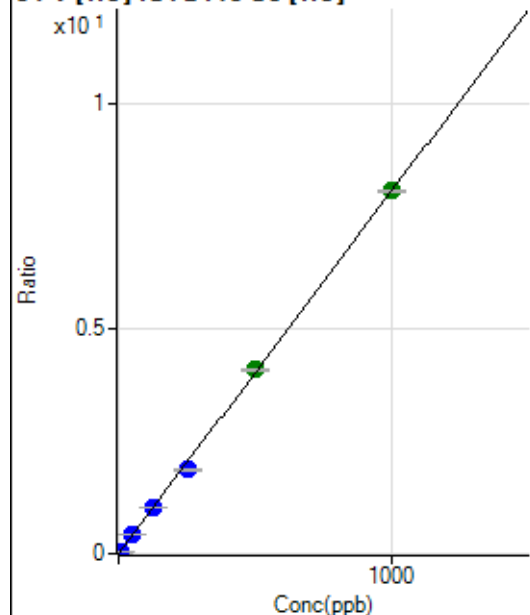
$$DL = 0.01866$$

$$BEC = 0.04405$$

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      | 23.33      | 0.0000 | P   | 0.2 |
| 2 | <input type="checkbox"/> | 5.000    | 5.341      | 29177.14   | 0.0430 | P   | 1.5 |
| 3 | <input type="checkbox"/> | 50.000   | 52.864     | 284275.21  | 0.4251 | P   | 0.8 |
| 4 | <input type="checkbox"/> | 125.000  | 125.820    | 642464.81  | 1.0117 | P   | 0.5 |
| 5 | <input type="checkbox"/> | 250.000  | 231.045    | 1114036.26 | 1.8579 | P   | 0.9 |
| 6 | <input type="checkbox"/> | 500.000  | 507.339    | 2328139.25 | 4.0795 | A   | 0.6 |
| 7 | <input type="checkbox"/> | 1000.000 | 1000.822   | 4487731.70 | 8.0476 | A   | 0.3 |
| 8 | <input type="checkbox"/> |          |            | 1012.27    | 0.0017 | P   | 3.7 |

$$y = 0.0080 * x + 3.4459\text{E-}005$$

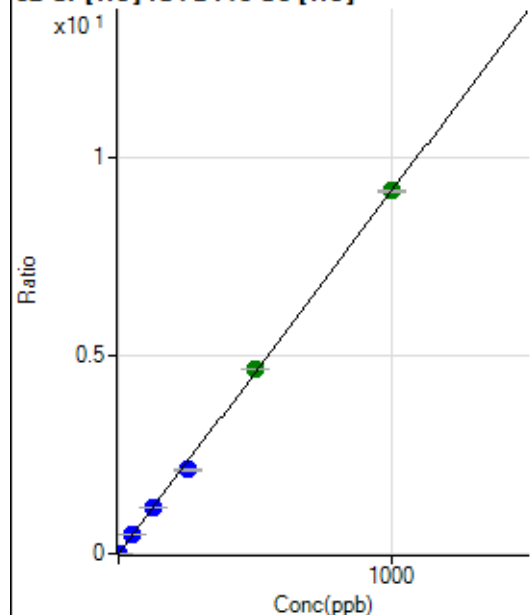
$$R = 0.9997$$

$$DL = 2.24\text{E-}05$$

$$BEC = 0.004285$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 1683.44    | 0.0025 | P   | 6.4 |
| 2 | <input type="checkbox"/> | 2.000    | 2.116      | 14851.84   | 0.0219 | P   | 1.6 |
| 3 | <input type="checkbox"/> | 50.000   | 52.450     | 323141.85  | 0.4832 | P   | 0.7 |
| 4 | <input type="checkbox"/> | 125.000  | 125.594    | 732566.87  | 1.1536 | P   | 0.2 |
| 5 | <input type="checkbox"/> | 250.000  | 230.688    | 1269375.81 | 2.1169 | P   | 0.8 |
| 6 | <input type="checkbox"/> | 500.000  | 507.942    | 2658300.32 | 4.6581 | A   | 0.6 |
| 7 | <input type="checkbox"/> | 1000.000 | 1000.660   | 5115932.60 | 9.1742 | A   | 0.4 |
| 8 | <input type="checkbox"/> |          |            | 9319.54    | 0.0157 | P   | 8.1 |

$$y = 0.0092 * x + 0.0025$$

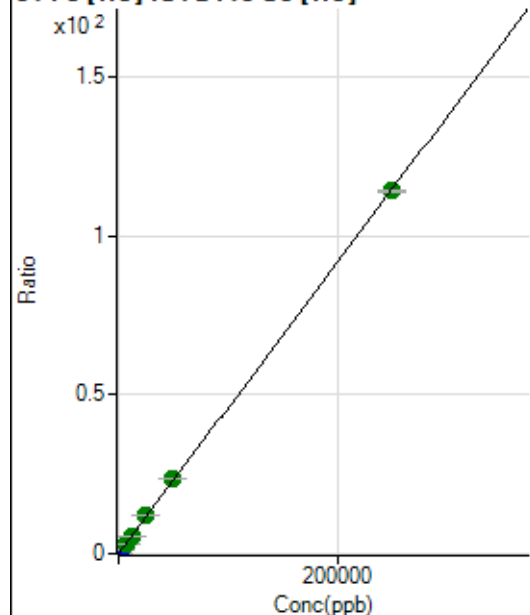
$$R = 0.9997$$

$$DL = 0.05239$$

$$BEC = 0.2713$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS         | Ratio    | Det | RSD |
|---|--------------------------|-----------|------------|-------------|----------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 3182.59     | 0.0047   | P   | 2.8 |
| 2 | <input type="checkbox"/> | 50.000    | 57.543     | 21059.29    | 0.0310   | P   | 1.0 |
| 3 | <input type="checkbox"/> | 2500.000  | 2810.313   | 862782.66   | 1.2902   | P   | 0.7 |
| 4 | <input type="checkbox"/> | 6250.000  | 6720.359   | 1955070.37  | 3.0788   | A   | 0.6 |
| 5 | <input type="checkbox"/> | 12500.000 | 12253.073  | 3363599.36  | 5.6096   | A   | 1.3 |
| 6 | <input type="checkbox"/> | 25000.000 | 26561.449  | 6936382.40  | 12.1546  | A   | 0.7 |
| 7 | <input type="checkbox"/> | 50000.000 | 51989.684  | 13264376.89 | 23.7862  | A   | 0.2 |
| 8 | <input type="checkbox"/> | 250000.00 | 249443.40  | 67921725.65 | 114.1070 | A   | 0.6 |

$$y = 4.5743E-004 * x + 0.0047$$

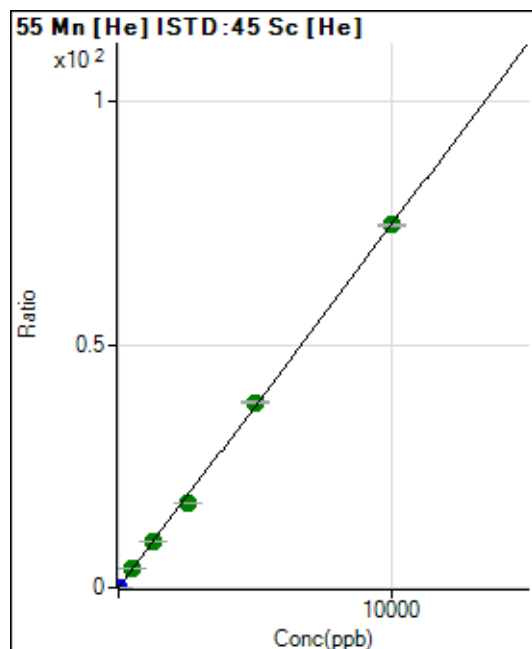
$$R = 0.9999$$

$$DL = 0.8676$$

$$BEC = 10.28$$

Weight: &lt;None&gt;

Min Conc: 0



|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS         | Ratio   | Det | RSD |
|---|--------------------------|-----------|------------|-------------|---------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 751.14      | 0.0011  | P   | 11. |
| 2 | <input type="checkbox"/> | 1.000     | 0.957      | 5606.65     | 0.0083  | P   | 3.8 |
| 3 | <input type="checkbox"/> | 500.000   | 531.605    | 2658257.25  | 3.9754  | A   | 1.4 |
| 4 | <input type="checkbox"/> | 1250.000  | 1256.803   | 5967126.23  | 9.3969  | A   | 0.3 |
| 5 | <input type="checkbox"/> | 2500.000  | 2338.282   | 10482886.65 | 17.4820 | A   | 1.0 |
| 6 | <input type="checkbox"/> | 5000.000  | 5093.652   | 21731951.90 | 38.0810 | A   | 0.8 |
| 7 | <input type="checkbox"/> | 10000.000 | 9991.173   | 41652816.88 | 74.6945 | A   | 0.2 |
| 8 | <input type="checkbox"/> |           |            | 20557.60    | 0.0345  | P   | 3.6 |

$$y = 0.0075 * x + 0.0011$$

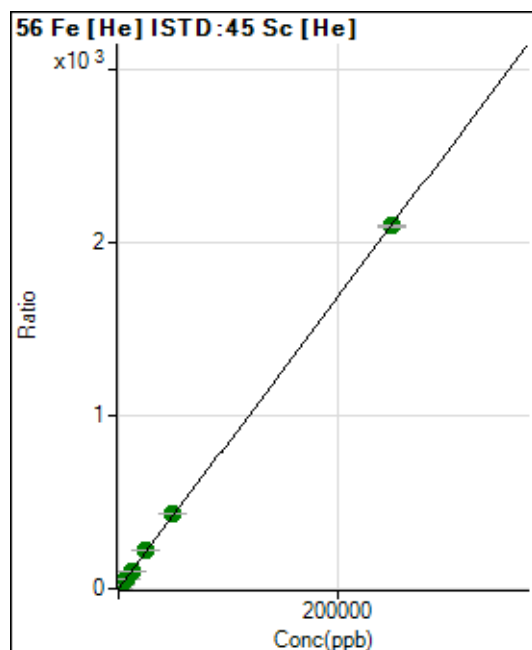
$$R = 0.9998$$

$$DL = 0.05157$$

$$BEC = 0.1484$$

Weight: <None>

Min Conc: 0



|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS          | Ratio     | Det | RSD |
|---|--------------------------|-----------|------------|--------------|-----------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 22947.53     | 0.0339    | P   | 0.4 |
| 2 | <input type="checkbox"/> | 50.000    | 56.355     | 344664.44    | 0.5078    | P   | 0.5 |
| 3 | <input type="checkbox"/> | 2500.000  | 2750.192   | 15485811.58  | 23.1588   | A   | 1.6 |
| 4 | <input type="checkbox"/> | 6250.000  | 6512.332   | 34793724.76  | 54.7926   | A   | 0.1 |
| 5 | <input type="checkbox"/> | 12500.000 | 12128.469  | 61170031.86  | 102.0157  | A   | 1.3 |
| 6 | <input type="checkbox"/> | 25000.000 | 26250.797  | 125987065.90 | 220.7627  | A   | 0.5 |
| 7 | <input type="checkbox"/> | 50000.000 | 51610.148  | 242013458.61 | 433.9959  | A   | 0.4 |
| 8 | <input type="checkbox"/> | 250000.00 | 249562.40  | 1249117341.3 | 2,098.470 | A   | 0.2 |

$$y = 0.0084 * x + 0.0339$$

$$R = 1.0000$$

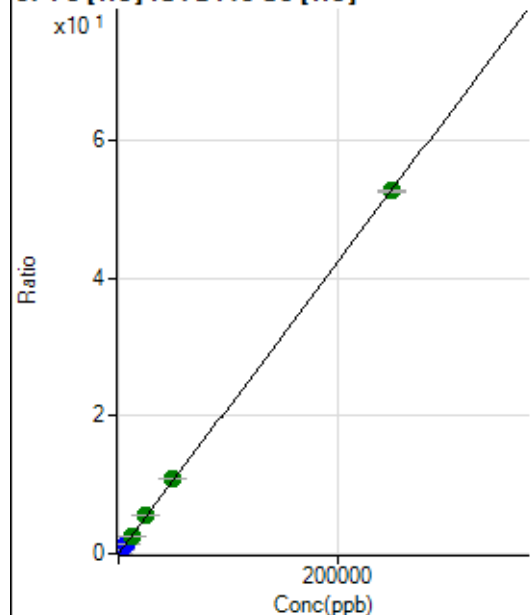
$$DL = 0.05402$$

$$BEC = 4.031$$

Weight: <None>

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS         | Ratio   | Det | RSD |
|---|--------------------------|-----------|------------|-------------|---------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 1384.52     | 0.0020  | P   | 3.3 |
| 2 | <input type="checkbox"/> | 50.000    | 56.544     | 9497.52     | 0.0140  | P   | 1.1 |
| 3 | <input type="checkbox"/> | 2500.000  | 2761.423   | 391489.92   | 0.5854  | P   | 0.9 |
| 4 | <input type="checkbox"/> | 6250.000  | 6602.678   | 887074.39   | 1.3970  | P   | 0.3 |
| 5 | <input type="checkbox"/> | 12500.000 | 12074.045  | 1530898.50  | 2.5529  | A   | 0.3 |
| 6 | <input type="checkbox"/> | 25000.000 | 26043.107  | 3141082.97  | 5.5041  | A   | 0.3 |
| 7 | <input type="checkbox"/> | 50000.000 | 51425.364  | 6059608.17  | 10.8664 | A   | 0.2 |
| 8 | <input type="checkbox"/> | 250000.00 | 249620.48  | 31392560.92 | 52.7382 | A   | 0.2 |

$$y = 2.1127E-004 * x + 0.0020$$

$$R = 1.0000$$

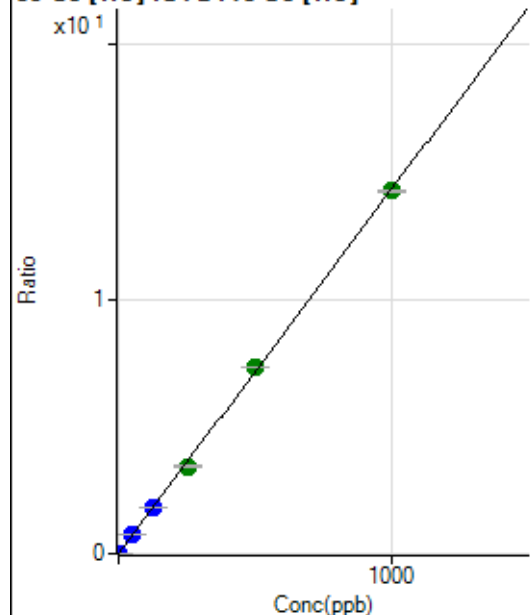
$$DL = 0.9635$$

$$BEC = 9.68$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio   | Det | RSD |
|---|--------------------------|----------|------------|------------|---------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 151.11     | 0.0002  | P   | 1.1 |
| 2 | <input type="checkbox"/> | 1.000    | 1.127      | 11096.39   | 0.0163  | P   | 1.2 |
| 3 | <input type="checkbox"/> | 50.000   | 52.889     | 506107.12  | 0.7568  | P   | 0.8 |
| 4 | <input type="checkbox"/> | 125.000  | 126.002    | 1144761.78 | 1.8028  | P   | 0.3 |
| 5 | <input type="checkbox"/> | 250.000  | 240.014    | 2059110.66 | 3.4338  | A   | 1.1 |
| 6 | <input type="checkbox"/> | 500.000  | 512.781    | 4186477.61 | 7.3359  | A   | 0.5 |
| 7 | <input type="checkbox"/> | 1000.000 | 995.836    | 7944325.99 | 14.2464 | A   | 0.5 |
| 8 | <input type="checkbox"/> |          |            | 22501.40   | 0.0378  | P   | 0.6 |

$$y = 0.0143 * x + 2.2320E-004$$

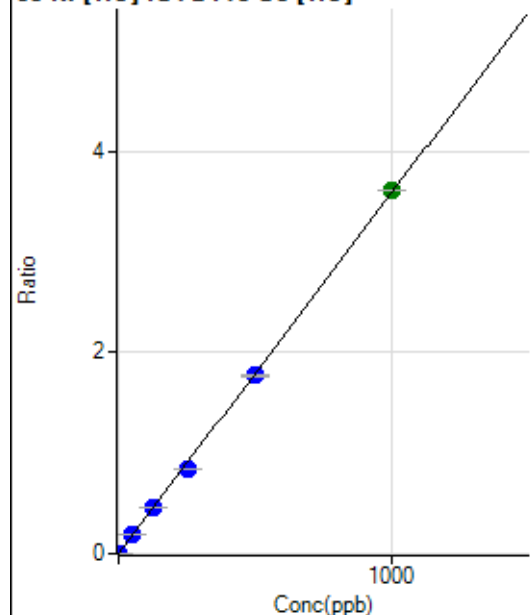
$$R = 0.9998$$

$$DL = 0.000533$$

$$BEC = 0.0156$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 493.35     | 0.0007 | P   | 11. |
| 2 | <input type="checkbox"/> | 1.000    | 1.142      | 3271.50    | 0.0048 | P   | 6.0 |
| 3 | <input type="checkbox"/> | 50.000   | 54.247     | 130430.12  | 0.1951 | P   | 1.8 |
| 4 | <input type="checkbox"/> | 125.000  | 128.204    | 292103.78  | 0.4600 | P   | 0.1 |
| 5 | <input type="checkbox"/> | 250.000  | 233.874    | 502799.96  | 0.8386 | P   | 1.4 |
| 6 | <input type="checkbox"/> | 500.000  | 494.531    | 1011431.80 | 1.7723 | P   | 0.6 |
| 7 | <input type="checkbox"/> | 1000.000 | 1006.153   | 2010399.41 | 3.6051 | A   | 0.1 |
| 8 | <input type="checkbox"/> |          |            | 8325.71    | 0.0140 | P   | 3.5 |

$$y = 0.0036 * x + 7.2867E-004$$

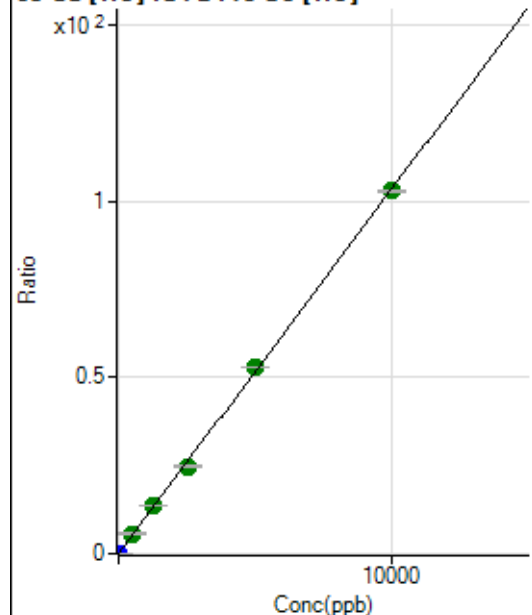
$$R = 0.9998$$

$$DL = 0.06725$$

$$BEC = 0.2034$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio    | Det | RSD |
|---|--------------------------|-----------|------------|-------------|----------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 1184.50     | 0.0017   | P   | 2.1 |
| 2 | <input type="checkbox"/> | 2.000     | 1.986      | 15123.28    | 0.0223   | P   | 1.8 |
| 3 | <input type="checkbox"/> | 500.000   | 553.144    | 3824004.60  | 5.7184   | A   | 0.7 |
| 4 | <input type="checkbox"/> | 1250.000  | 1321.174   | 8671581.88  | 13.6560  | A   | 0.2 |
| 5 | <input type="checkbox"/> | 2500.000  | 2401.277   | 14882459.50 | 24.8187  | A   | 0.7 |
| 6 | <input type="checkbox"/> | 5000.000  | 5111.027   | 30145872.05 | 52.8238  | A   | 0.7 |
| 7 | <input type="checkbox"/> | 10000.000 | 9957.613   | 57387919.15 | 102.9128 | A   | 0.5 |
| 8 | <input type="checkbox"/> |           |            | 10566.04    | 0.0178   | P   | 3.9 |

$$y = 0.0103 * x + 0.0017$$

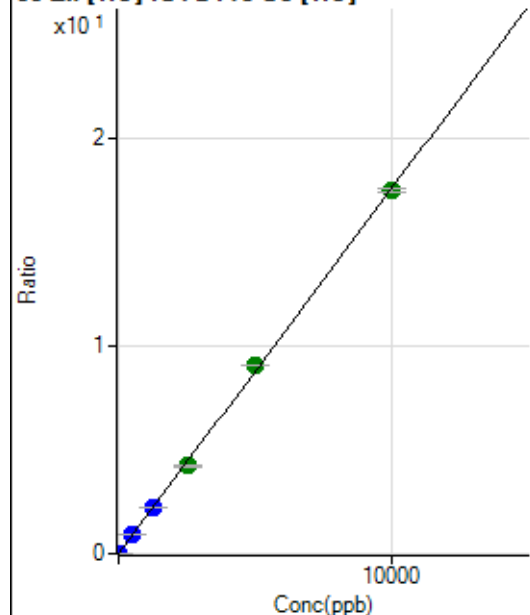
$$R = 0.9998$$

$$DL = 0.0106$$

$$BEC = 0.1693$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS        | Ratio   | Det | RSD |
|---|--------------------------|-----------|------------|------------|---------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 883.37     | 0.0013  | P   | 8.2 |
| 2 | <input type="checkbox"/> | 5.000     | 5.041      | 6888.30    | 0.0101  | P   | 1.8 |
| 3 | <input type="checkbox"/> | 500.000   | 527.930    | 620111.15  | 0.9273  | P   | 1.1 |
| 4 | <input type="checkbox"/> | 1250.000  | 1267.703   | 1412853.88 | 2.2250  | P   | 0.4 |
| 5 | <input type="checkbox"/> | 2500.000  | 2409.198   | 2534699.67 | 4.2273  | A   | 1.7 |
| 6 | <input type="checkbox"/> | 5000.000  | 5155.679   | 5161704.58 | 9.0448  | A   | 0.6 |
| 7 | <input type="checkbox"/> | 10000.000 | 9941.252   | 9724474.79 | 17.4392 | A   | 1.2 |
| 8 | <input type="checkbox"/> |           |            | 10440.40   | 0.0175  | P   | 1.6 |

$$y = 0.0018 * x + 0.0013$$

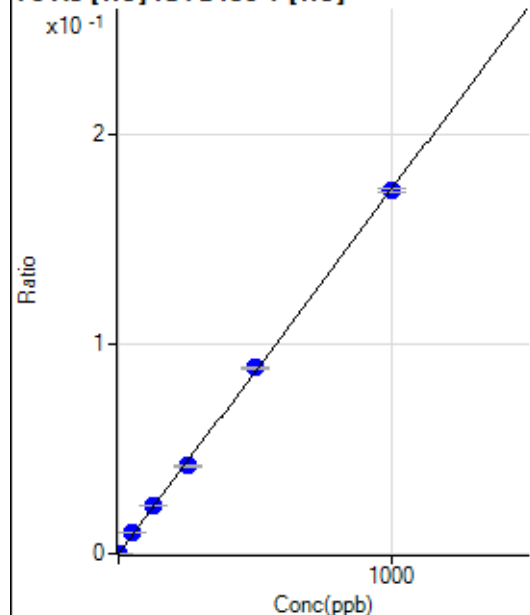
$$R = 0.9998$$

$$DL = 0.1833$$

$$BEC = 0.7439$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS       | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|-----------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 11.11     | 0.0000 | P   | 45. |
| 2 | <input type="checkbox"/> | 1.000    | 1.205      | 943.37    | 0.0002 | P   | 6.4 |
| 3 | <input type="checkbox"/> | 50.000   | 56.110     | 42957.51  | 0.0098 | P   | 0.4 |
| 4 | <input type="checkbox"/> | 125.000  | 132.687    | 97878.62  | 0.0231 | P   | 0.9 |
| 5 | <input type="checkbox"/> | 250.000  | 240.703    | 170104.42 | 0.0419 | P   | 0.9 |
| 6 | <input type="checkbox"/> | 500.000  | 510.345    | 348114.43 | 0.0888 | P   | 0.6 |
| 7 | <input type="checkbox"/> | 1000.000 | 995.885    | 664626.59 | 0.1732 | P   | 1.0 |
| 8 | <input type="checkbox"/> |          |            | 396.67    | 0.0001 | P   | 8.3 |

$$y = 1.7392E-004 * x + 2.5126E-006$$

$$R = 0.9998$$

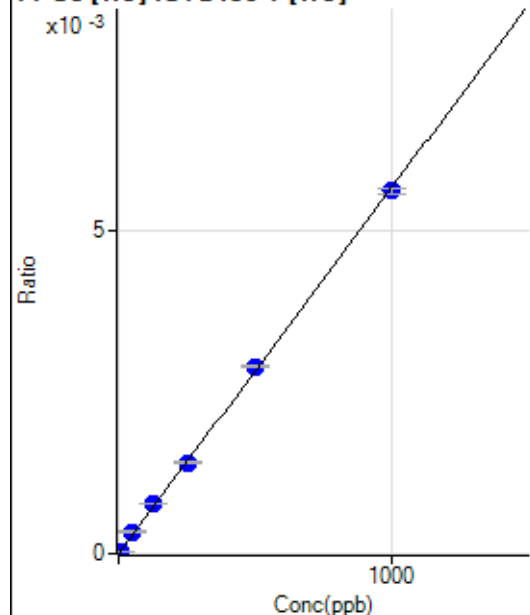
$$DL = 0.01989$$

$$BEC = 0.01445$$

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    | 5.201      | 131.11   | 0.0000 | P   | 5.1 |
| 3 | <input type="checkbox"/> | 50.000   | 59.430     | 1480.09  | 0.0003 | P   | 10. |
| 4 | <input type="checkbox"/> | 125.000  | 136.647    | 3281.50  | 0.0008 | P   | 2.9 |
| 5 | <input type="checkbox"/> | 250.000  | 249.432    | 5738.93  | 0.0014 | P   | 2.6 |
| 6 | <input type="checkbox"/> | 500.000  | 512.597    | 11381.11 | 0.0029 | P   | 1.6 |
| 7 | <input type="checkbox"/> | 1000.000 | 991.915    | 21547.97 | 0.0056 | P   | 1.7 |
| 8 | <input type="checkbox"/> |          |            | 8.89     | 0.0000 | P   | 94. |

$$y = 5.6616\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9998$$

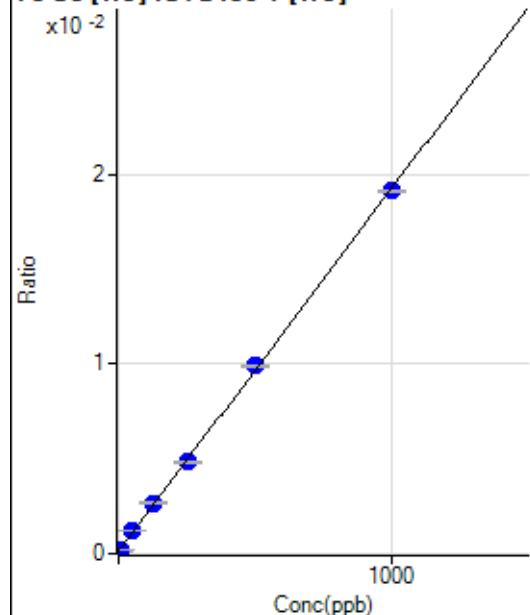
$$DL = 0$$

$$BEC = 0$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS      | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|----------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 565.57   | 0.0001 | P   | 6.3 |
| 2 | <input type="checkbox"/> | 5.000    | 5.916      | 1072.27  | 0.0002 | P   | 1.5 |
| 3 | <input type="checkbox"/> | 50.000   | 56.315     | 5299.89  | 0.0012 | P   | 1.3 |
| 4 | <input type="checkbox"/> | 125.000  | 133.369    | 11352.20 | 0.0027 | P   | 2.0 |
| 5 | <input type="checkbox"/> | 250.000  | 246.299    | 19647.55 | 0.0048 | P   | 1.7 |
| 6 | <input type="checkbox"/> | 500.000  | 511.241    | 38822.95 | 0.0099 | P   | 1.6 |
| 7 | <input type="checkbox"/> | 1000.000 | 993.938    | 73393.84 | 0.0191 | P   | 0.8 |
| 8 | <input type="checkbox"/> |          |            | 503.35   | 0.0001 | P   | 10. |

$$y = 1.9114\text{E-}005 * x + 1.2783\text{E-}004$$

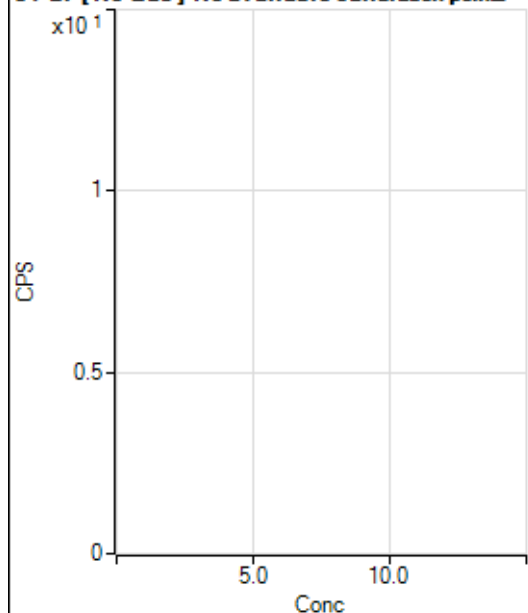
$$R = 0.9999$$

$$DL = 1.265$$

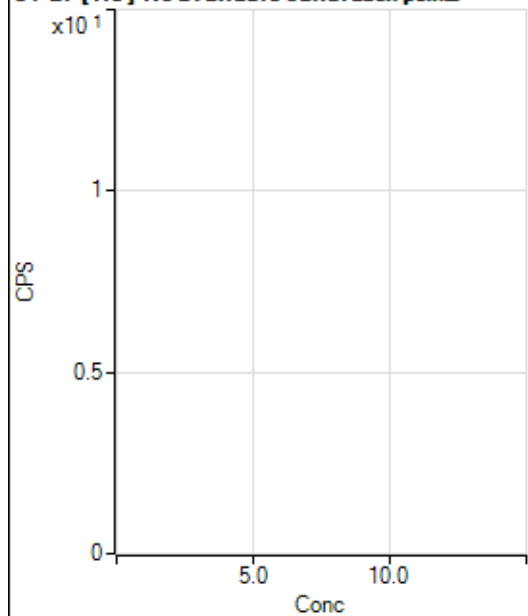
$$BEC = 6.688$$

Weight: &lt;None&gt;

Min Conc: 0

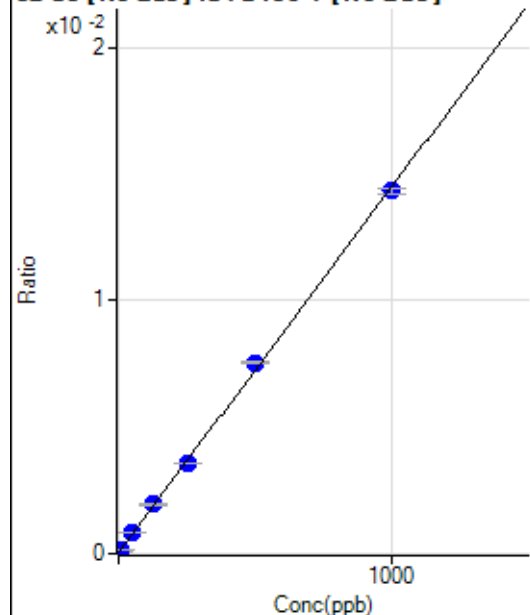
**81 Br [ No Gas ] No available calibration points**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS      | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|----------|-------|----------|-----|
| 1 | <input type="checkbox"/> |       |            | 17540.54 |       | P        | 0.5 |
| 2 | <input type="checkbox"/> |       |            | 18027.80 |       | P        | 1.6 |
| 3 | <input type="checkbox"/> |       |            | 17620.64 |       | P        | 1.4 |
| 4 | <input type="checkbox"/> |       |            | 16790.76 |       | P        | 0.9 |
| 5 | <input type="checkbox"/> |       |            | 15899.76 |       | P        | 1.5 |
| 6 | <input type="checkbox"/> |       |            | 15002.15 |       | P        | 1.9 |
| 7 | <input type="checkbox"/> |       |            | 14292.57 |       | P        | 3.7 |
| 8 | <input type="checkbox"/> |       |            | 14818.64 |       | P        | 2.9 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|--------|-------|----------|-----|
| 1 | <input type="checkbox"/> |       |            | 177.78 |       | P        | 5.7 |
| 2 | <input type="checkbox"/> |       |            | 172.22 |       | P        | 7.8 |
| 3 | <input type="checkbox"/> |       |            | 113.34 |       | P        | 7.8 |
| 4 | <input type="checkbox"/> |       |            | 97.78  |       | P        | 30. |
| 5 | <input type="checkbox"/> |       |            | 90.00  |       | P        | 7.4 |
| 6 | <input type="checkbox"/> |       |            | 92.22  |       | P        | 10. |
| 7 | <input type="checkbox"/> |       |            | 105.55 |       | P        | 12. |
| 8 | <input type="checkbox"/> |       |            | 168.89 |       | P        | 10. |



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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS       | Ratio  | Det. | RSD |
|---|--------------------------|----------|------------|-----------|--------|------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 585.99    | 0.0000 | P    | 2.5 |
| 2 | <input type="checkbox"/> | 5.000    | 5.347      | 1770.77   | 0.0001 | P    | 3.1 |
| 3 | <input type="checkbox"/> | 50.000   | 56.396     | 13283.64  | 0.0009 | P    | 3.0 |
| 4 | <input type="checkbox"/> | 125.000  | 131.800    | 29579.93  | 0.0019 | P    | 1.1 |
| 5 | <input type="checkbox"/> | 250.000  | 243.850    | 52339.71  | 0.0036 | P    | 0.8 |
| 6 | <input type="checkbox"/> | 500.000  | 520.682    | 106394.40 | 0.0076 | P    | 1.0 |
| 7 | <input type="checkbox"/> | 1000.000 | 990.025    | 199249.59 | 0.0143 | P    | 1.8 |
| 8 | <input type="checkbox"/> |          |            | 625.99    | 0.0000 | P    | 5.3 |

$$y = 1.4427\text{E-}005 * x + 3.8691\text{E-}005$$

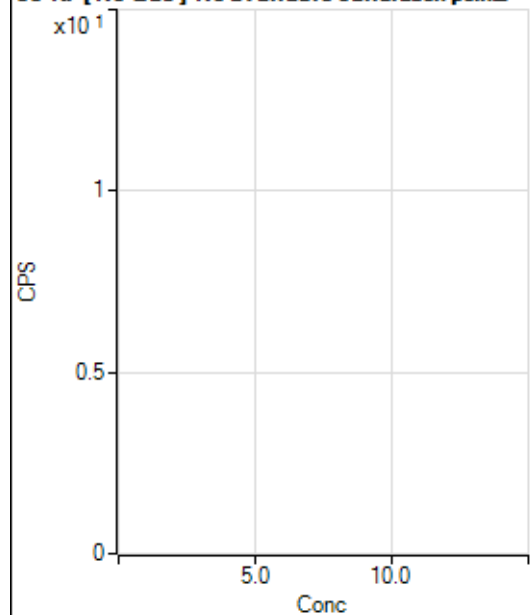
$$R = 0.9996$$

$$DL = 0.203$$

$$BEC = 2.682$$

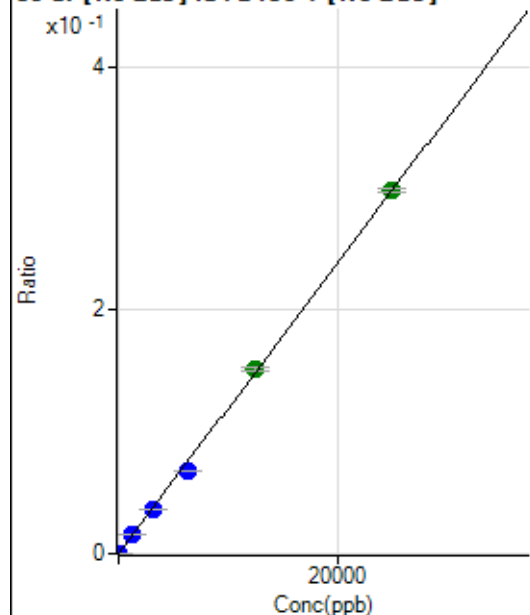
Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc. | Calc Conc. | CPS    | Ratio | Det. | RSD |
|---|--------------------------|-------|------------|--------|-------|------|-----|
| 1 | <input type="checkbox"/> |       |            | 236.67 |       | P    | 11. |
| 2 | <input type="checkbox"/> |       |            | 246.67 |       | P    | 13. |
| 3 | <input type="checkbox"/> |       |            | 201.11 |       | P    | 7.7 |
| 4 | <input type="checkbox"/> |       |            | 221.11 |       | P    | 6.3 |
| 5 | <input type="checkbox"/> |       |            | 234.45 |       | P    | 11. |
| 6 | <input type="checkbox"/> |       |            | 211.11 |       | P    | 14. |
| 7 | <input type="checkbox"/> |       |            | 218.89 |       | P    | 7.2 |
| 8 | <input type="checkbox"/> |       |            | 218.89 |       | P    | 9.3 |

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



|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS        | Ratio  | Det | RSD |
|---|--------------------------|-----------|------------|------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 444.46     | 0.0000 | P   | 1.0 |
| 2 | <input type="checkbox"/> | 1.000     | 26.522     | 5270.98    | 0.0003 | P   | 2.2 |
| 3 | <input type="checkbox"/> | 1250.000  | 1296.543   | 240858.77  | 0.0155 | P   | 0.9 |
| 4 | <input type="checkbox"/> | 3125.000  | 3071.644   | 557459.16  | 0.0366 | P   | 1.2 |
| 5 | <input type="checkbox"/> | 6250.000  | 5684.926   | 995489.20  | 0.0677 | P   | 0.9 |
| 6 | <input type="checkbox"/> | 12500.000 | 12728.746  | 2133740.80 | 0.1514 | A   | 1.6 |
| 7 | <input type="checkbox"/> | 25000.000 | 25031.237  | 4142944.00 | 0.2978 | A   | 1.2 |
| 8 | <input type="checkbox"/> |           |            | 12478.71   | 0.0009 | P   | 3.5 |

$$y = 1.1895E-005 * x + 2.9346E-005$$

R = 0.9996

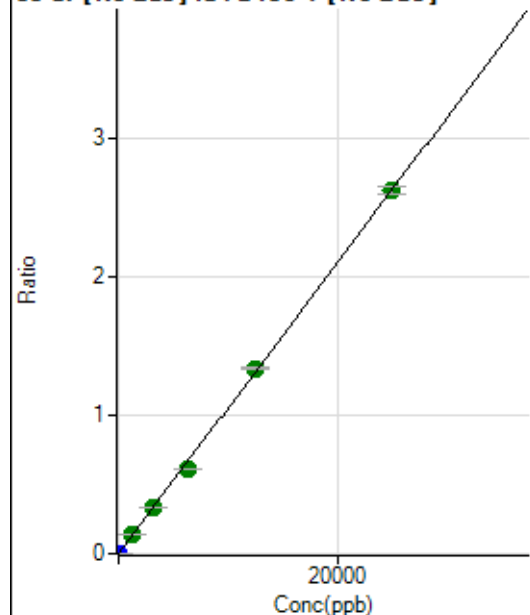
DL = 0.07504

BEC = 2.467

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio  | Det | RSD |
|---|--------------------------|-----------|------------|-------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 354.45      | 0.0000 | P   | 7.0 |
| 2 | <input type="checkbox"/> | 1.000     | 26.115     | 42136.85    | 0.0028 | P   | 1.8 |
| 3 | <input type="checkbox"/> | 1250.000  | 1328.250   | 2167336.43  | 0.1390 | A   | 0.5 |
| 4 | <input type="checkbox"/> | 3125.000  | 3159.854   | 5041877.15  | 0.3307 | A   | 1.4 |
| 5 | <input type="checkbox"/> | 6250.000  | 5841.206   | 8996169.45  | 0.6114 | A   | 0.7 |
| 6 | <input type="checkbox"/> | 12500.000 | 12725.706  | 18767416.94 | 1.3319 | A   | 0.9 |
| 7 | <input type="checkbox"/> | 25000.000 | 24981.075  | 36372392.52 | 2.6146 | A   | 2.2 |
| 8 | <input type="checkbox"/> |           |            | 104485.22   | 0.0078 | P   | 1.5 |

$$y = 1.0466E-004 * x + 2.3395E-005$$

R = 0.9998

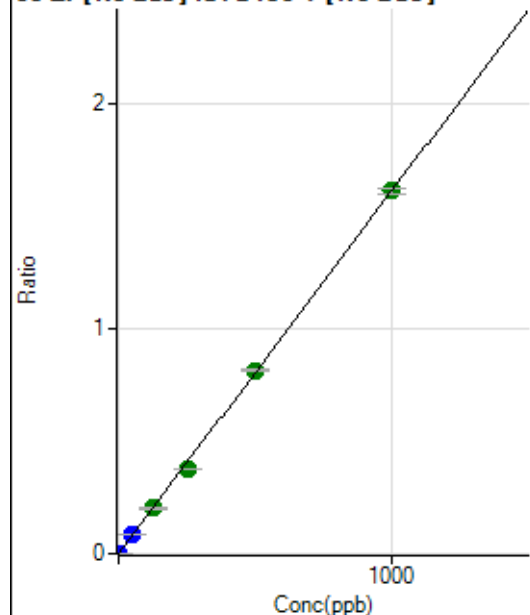
DL = 0.04717

BEC = 0.2235

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      | 691.14      | 0.0000 | P   | 2.0 |
| 2 | <input type="checkbox"/> | 1.000    | 1.045      | 26427.16    | 0.0017 | P   | 2.3 |
| 3 | <input type="checkbox"/> | 50.000   | 51.228     | 1287371.49  | 0.0826 | P   | 1.1 |
| 4 | <input type="checkbox"/> | 125.000  | 125.275    | 3078105.40  | 0.2019 | A   | 1.1 |
| 5 | <input type="checkbox"/> | 250.000  | 233.197    | 5529998.87  | 0.3758 | A   | 0.6 |
| 6 | <input type="checkbox"/> | 500.000  | 506.100    | 11491911.50 | 0.8156 | A   | 0.7 |
| 7 | <input type="checkbox"/> | 1000.000 | 1001.055   | 22442299.67 | 1.6131 | A   | 1.3 |
| 8 | <input type="checkbox"/> |          |            | 13689.80    | 0.0010 | P   | 1.2 |

$$y = 0.0016 * x + 4.5634E-005$$

$$R = 0.9998$$

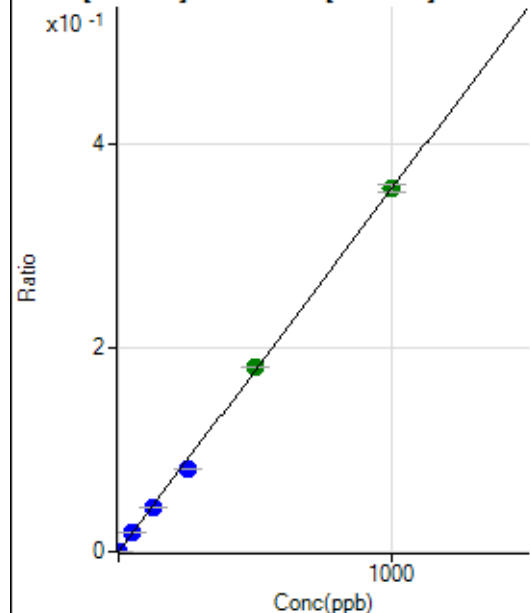
$$DL = 0.001727$$

$$BEC = 0.02832$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 166.67     | 0.0000 | P   | 13. |
| 2 | <input type="checkbox"/> | 1.000    | 1.054      | 5911.24    | 0.0004 | P   | 1.9 |
| 3 | <input type="checkbox"/> | 50.000   | 52.025     | 289241.47  | 0.0186 | P   | 0.7 |
| 4 | <input type="checkbox"/> | 125.000  | 123.424    | 670890.55  | 0.0440 | P   | 1.1 |
| 5 | <input type="checkbox"/> | 250.000  | 229.123    | 1201981.38 | 0.0817 | P   | 0.6 |
| 6 | <input type="checkbox"/> | 500.000  | 510.058    | 2562210.20 | 0.1818 | A   | 0.5 |
| 7 | <input type="checkbox"/> | 1000.000 | 1000.286   | 4960517.67 | 0.3566 | A   | 2.0 |
| 8 | <input type="checkbox"/> |          |            | 3040.35    | 0.0002 | P   | 1.6 |

$$y = 3.5646E-004 * x + 1.1008E-005$$

$$R = 0.9997$$

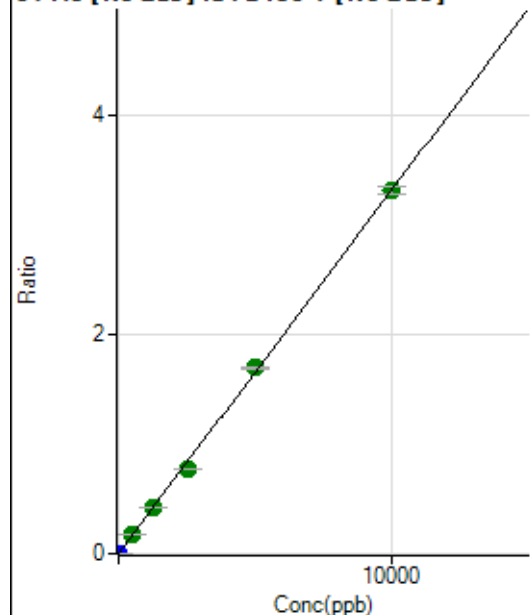
$$DL = 0.01246$$

$$BEC = 0.03088$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS         | Ratio  | Det | RSD |
|---|--------------------------|-----------|------------|-------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 302.23      | 0.0000 | P   | 3.4 |
| 2 | <input type="checkbox"/> | 5.000     | 6.196      | 31678.67    | 0.0021 | P   | 1.9 |
| 3 | <input type="checkbox"/> | 500.000   | 527.502    | 2724067.46  | 0.1748 | A   | 1.5 |
| 4 | <input type="checkbox"/> | 1250.000  | 1258.771   | 6357474.21  | 0.4170 | A   | 1.3 |
| 5 | <input type="checkbox"/> | 2500.000  | 2323.999   | 11329454.28 | 0.7699 | A   | 1.0 |
| 6 | <input type="checkbox"/> | 5000.000  | 5108.780   | 23848166.31 | 1.6924 | A   | 0.6 |
| 7 | <input type="checkbox"/> | 10000.000 | 9987.138   | 46026699.31 | 3.3085 | A   | 2.0 |
| 8 | <input type="checkbox"/> |           |            | 11475.71    | 0.0009 | P   | 3.6 |

$$y = 3.3127\text{E-}004 * x + 1.9959\text{E-}005$$

$$R = 0.9997$$

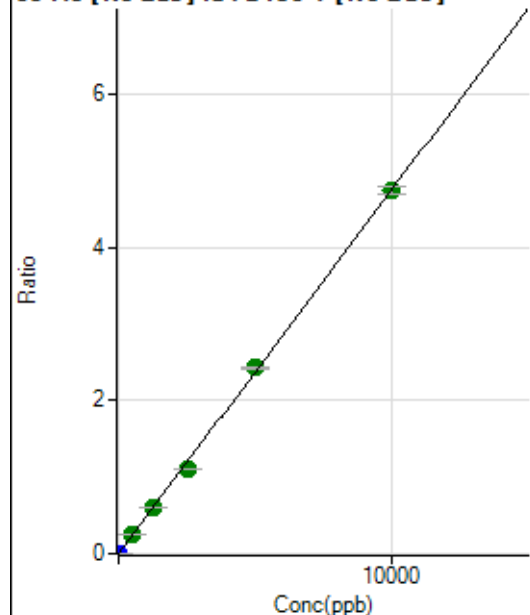
$$DL = 0.006058$$

$$BEC = 0.06025$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS         | Ratio  | Det | RSD |
|---|--------------------------|-----------|------------|-------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 196.67      | 0.0000 | P   | 7.6 |
| 2 | <input type="checkbox"/> | 5.000     | 5.188      | 37863.30    | 0.0025 | P   | 1.2 |
| 3 | <input type="checkbox"/> | 500.000   | 530.730    | 3929393.21  | 0.2521 | A   | 0.6 |
| 4 | <input type="checkbox"/> | 1250.000  | 1272.141   | 9210731.95  | 0.6042 | A   | 1.0 |
| 5 | <input type="checkbox"/> | 2500.000  | 2327.304   | 16264113.51 | 1.1053 | A   | 0.9 |
| 6 | <input type="checkbox"/> | 5000.000  | 5116.442   | 34238478.66 | 2.4299 | A   | 0.9 |
| 7 | <input type="checkbox"/> | 10000.000 | 9980.649   | 65939699.02 | 4.7399 | A   | 2.1 |
| 8 | <input type="checkbox"/> |           |            | 10397.10    | 0.0008 | P   | 6.7 |

$$y = 4.7491\text{E-}004 * x + 1.2988\text{E-}005$$

$$R = 0.9997$$

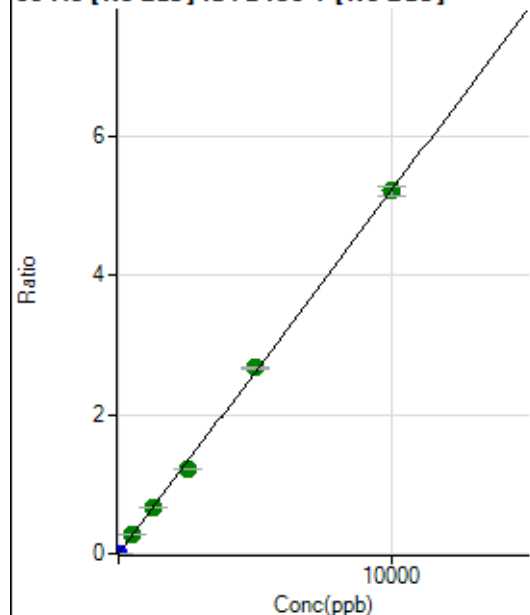
$$DL = 0.006261$$

$$BEC = 0.02735$$

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      | 306.67      | 0.0000 | P   | 15. |
| 2 | <input type="checkbox"/> | 5.000     | 5.286      | 42465.91    | 0.0028 | P   | 0.8 |
| 3 | <input type="checkbox"/> | 500.000   | 533.392    | 4338331.60  | 0.2783 | A   | 0.4 |
| 4 | <input type="checkbox"/> | 1250.000  | 1261.106   | 10031107.28 | 0.6580 | A   | 0.8 |
| 5 | <input type="checkbox"/> | 2500.000  | 2325.373   | 17852814.87 | 1.2132 | A   | 0.5 |
| 6 | <input type="checkbox"/> | 5000.000  | 5112.404   | 37584251.39 | 2.6673 | A   | 0.9 |
| 7 | <input type="checkbox"/> | 10000.000 | 9984.397   | 72464842.26 | 5.2091 | A   | 2.4 |
| 8 | <input type="checkbox"/> |           |            | 22705.49    | 0.0017 | P   | 2.5 |

$$y = 5.2172\text{E-}004 * x + 2.0233\text{E-}005$$

$$R = 0.9997$$

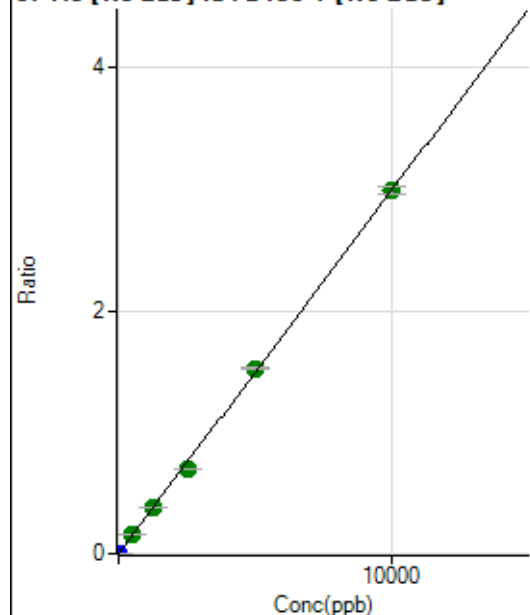
$$DL = 0.01762$$

$$BEC = 0.03878$$

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      | 130.00      | 0.0000 | P   | 11. |
| 2 | <input type="checkbox"/> | 5.000     | 5.176      | 23779.41    | 0.0016 | P   | 1.8 |
| 3 | <input type="checkbox"/> | 500.000   | 530.532    | 2472544.37  | 0.1586 | A   | 1.2 |
| 4 | <input type="checkbox"/> | 1250.000  | 1261.479   | 5748948.46  | 0.3771 | A   | 1.1 |
| 5 | <input type="checkbox"/> | 2500.000  | 2313.043   | 10174969.36 | 0.6914 | A   | 0.7 |
| 6 | <input type="checkbox"/> | 5000.000  | 5098.653   | 21474888.01 | 1.5241 | A   | 1.0 |
| 7 | <input type="checkbox"/> | 10000.000 | 9994.451   | 41560911.33 | 2.9875 | A   | 2.1 |
| 8 | <input type="checkbox"/> |           |            | 6299.18     | 0.0005 | P   | 6.1 |

$$y = 2.9891\text{E-}004 * x + 8.5844\text{E-}006$$

$$R = 0.9997$$

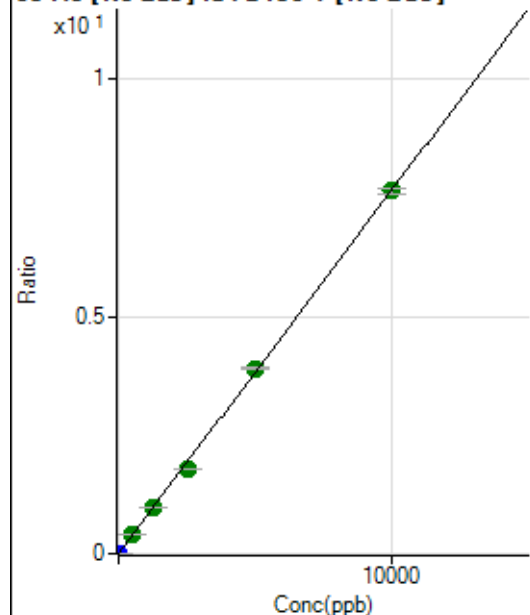
$$DL = 0.01019$$

$$BEC = 0.02872$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>ct</sub>          | Conc.     | Calc Conc. | CPS          | Ratio  | Det. | RSD |
|---|--------------------------|-----------|------------|--------------|--------|------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 288.89       | 0.0000 | P    | 13. |
| 2 | <input type="checkbox"/> | 5.000     | 5.221      | 61406.04     | 0.0040 | P    | 0.6 |
| 3 | <input type="checkbox"/> | 500.000   | 531.483    | 6344756.50   | 0.4070 | A    | 0.3 |
| 4 | <input type="checkbox"/> | 1250.000  | 1263.990   | 14755655.61  | 0.9680 | A    | 2.1 |
| 5 | <input type="checkbox"/> | 2500.000  | 2333.411   | 26294909.33  | 1.7869 | A    | 0.7 |
| 6 | <input type="checkbox"/> | 5000.000  | 5095.998   | 54987593.07  | 3.9024 | A    | 1.0 |
| 7 | <input type="checkbox"/> | 10000.000 | 9990.325   | 106432112.86 | 7.6504 | A    | 1.9 |
| 8 | <input type="checkbox"/> |           |            | 15580.65     | 0.0012 | P    | 7.9 |

$$y = 7.6578\text{E-}004 * x + 1.9073\text{E-}005$$

$$R = 0.9998$$

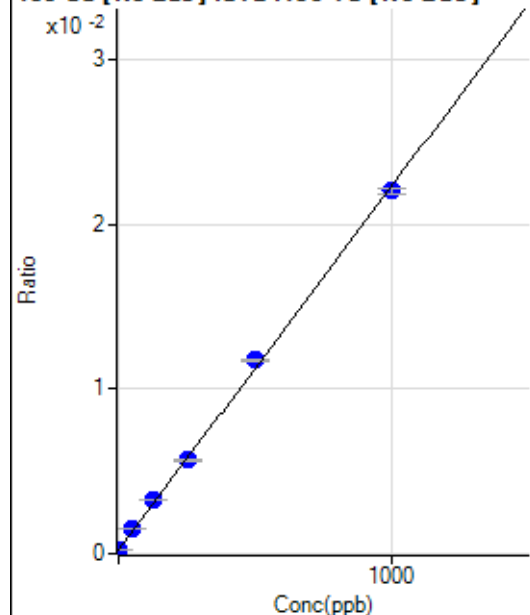
$$DL = 0.0102$$

$$BEC = 0.02491$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS       | Ratio  | Det. | RSD |
|---|--------------------------|----------|------------|-----------|--------|------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 3472.67   | 0.0002 | P    | 5.5 |
| 2 | <input type="checkbox"/> | 1.000    | 1.575      | 4077.28   | 0.0003 | P    | 2.3 |
| 3 | <input type="checkbox"/> | 50.000   | 59.284     | 25051.68  | 0.0015 | P    | 1.2 |
| 4 | <input type="checkbox"/> | 125.000  | 138.448    | 53119.88  | 0.0033 | P    | 0.2 |
| 5 | <input type="checkbox"/> | 250.000  | 247.096    | 90957.87  | 0.0057 | P    | 0.6 |
| 6 | <input type="checkbox"/> | 500.000  | 521.960    | 185302.42 | 0.0118 | P    | 0.7 |
| 7 | <input type="checkbox"/> | 1000.000 | 987.600    | 346837.91 | 0.0220 | P    | 1.8 |
| 8 | <input type="checkbox"/> |          |            | 3633.82   | 0.0002 | P    | 1.5 |

$$y = 2.2094\text{E-}005 * x + 2.1902\text{E-}004$$

$$R = 0.9996$$

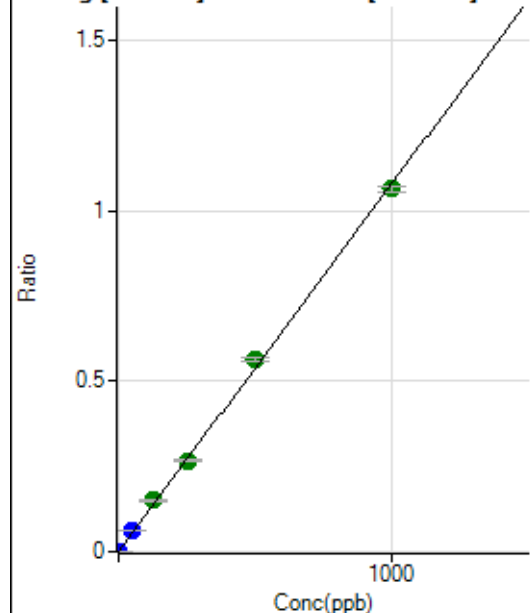
$$DL = 1.629$$

$$BEC = 9.913$$

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      | 100.00      | 0.0000 | P   | 9.3 |
| 2 | <input type="checkbox"/> | 1.000    | 1.104      | 19252.85    | 0.0012 | P   | 1.4 |
| 3 | <input type="checkbox"/> | 50.000   | 56.824     | 1005511.03  | 0.0614 | P   | 1.7 |
| 4 | <input type="checkbox"/> | 125.000  | 138.791    | 2429152.93  | 0.1499 | A   | 2.2 |
| 5 | <input type="checkbox"/> | 250.000  | 247.648    | 4284291.50  | 0.2675 | A   | 1.5 |
| 6 | <input type="checkbox"/> | 500.000  | 523.269    | 8911152.85  | 0.5651 | A   | 1.3 |
| 7 | <input type="checkbox"/> | 1000.000 | 986.888    | 16773530.31 | 1.0659 | A   | 1.9 |
| 8 | <input type="checkbox"/> |          |            | 3223.73     | 0.0002 | P   | 10. |

$$y = 0.0011 * x + 6.3108E-006$$

$$R = 0.9995$$

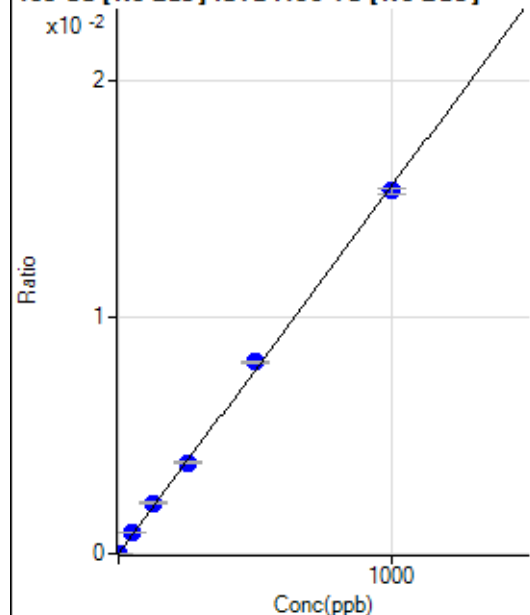
$$DL = 0.00163$$

$$BEC = 0.005843$$

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      | 7.78      | 0.0000 | P   | 64. |
| 2 | <input type="checkbox"/> | 1.000    | 1.109      | 284.45    | 0.0000 | P   | 15. |
| 3 | <input type="checkbox"/> | 50.000   | 59.039     | 15016.75  | 0.0009 | P   | 1.8 |
| 4 | <input type="checkbox"/> | 125.000  | 138.588    | 34856.25  | 0.0022 | P   | 1.6 |
| 5 | <input type="checkbox"/> | 250.000  | 248.275    | 61715.98  | 0.0039 | P   | 0.9 |
| 6 | <input type="checkbox"/> | 500.000  | 521.169    | 127520.16 | 0.0081 | P   | 1.4 |
| 7 | <input type="checkbox"/> | 1000.000 | 987.696    | 241204.02 | 0.0153 | P   | 1.6 |
| 8 | <input type="checkbox"/> |          |            | 95.56     | 0.0000 | P   | 12. |

$$y = 1.5517E-005 * x + 4.8842E-007$$

$$R = 0.9996$$

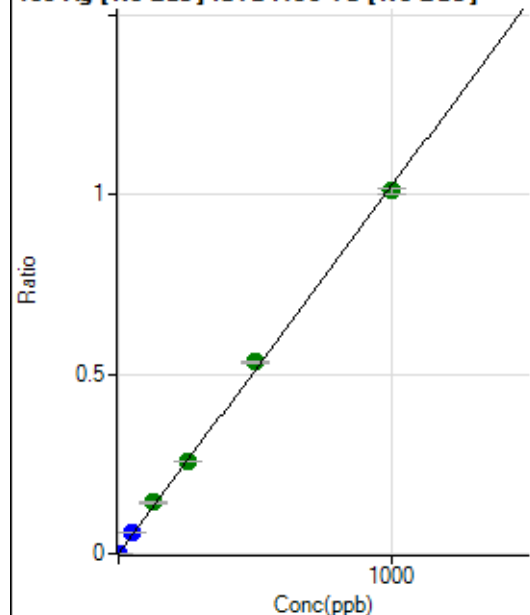
$$DL = 0.06118$$

$$BEC = 0.03148$$

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      | 43.33       | 0.0000 | P   | 29. |
| 2 | <input type="checkbox"/> | 1.000    | 1.107      | 18237.13    | 0.0011 | P   | 0.6 |
| 3 | <input type="checkbox"/> | 50.000   | 57.209     | 958576.97   | 0.0585 | P   | 1.6 |
| 4 | <input type="checkbox"/> | 125.000  | 139.179    | 2306722.86  | 0.1423 | A   | 1.4 |
| 5 | <input type="checkbox"/> | 250.000  | 249.970    | 4095063.27  | 0.2557 | A   | 0.5 |
| 6 | <input type="checkbox"/> | 500.000  | 521.664    | 8413100.01  | 0.5335 | A   | 0.4 |
| 7 | <input type="checkbox"/> | 1000.000 | 987.043    | 15886750.74 | 1.0095 | A   | 1.8 |
| 8 | <input type="checkbox"/> |          |            | 2902.55     | 0.0002 | P   | 13. |

$$y = 0.0010 * x + 2.7406E-006$$

$$R = 0.9996$$

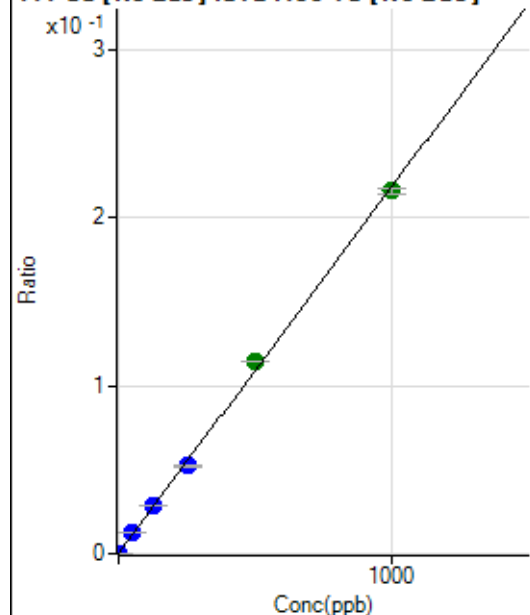
$$DL = 0.002345$$

$$BEC = 0.00268$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 2436.54    | 0.0002 | P   | 5.3 |
| 2 | <input type="checkbox"/> | 1.000    | 1.266      | 6905.65    | 0.0004 | P   | 1.7 |
| 3 | <input type="checkbox"/> | 50.000   | 56.553     | 204765.13  | 0.0125 | P   | 1.8 |
| 4 | <input type="checkbox"/> | 125.000  | 132.284    | 470442.49  | 0.0290 | P   | 0.8 |
| 5 | <input type="checkbox"/> | 250.000  | 238.324    | 835787.84  | 0.0522 | P   | 0.2 |
| 6 | <input type="checkbox"/> | 500.000  | 523.807    | 1805537.20 | 0.1145 | A   | 0.3 |
| 7 | <input type="checkbox"/> | 1000.000 | 989.777    | 3402768.19 | 0.2162 | A   | 1.6 |
| 8 | <input type="checkbox"/> |          |            | 3033.46    | 0.0002 | P   | 1.8 |

$$y = 2.1830E-004 * x + 1.5367E-004$$

$$R = 0.9995$$

$$DL = 0.1117$$

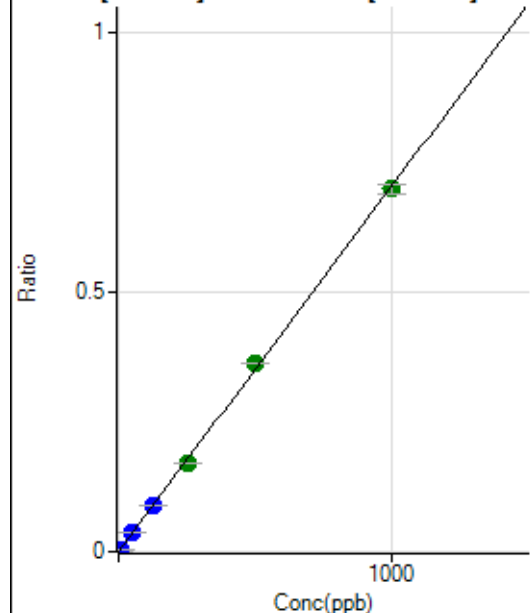
$$BEC = 0.704$$

Weight: &lt;None&gt;

Min Conc: 0



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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|-------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 1574.54     | 0.0001 | P   | 5.1 |
| 2 | <input type="checkbox"/> | 5.000    | 5.584      | 64768.03    | 0.0040 | P   | 0.3 |
| 3 | <input type="checkbox"/> | 50.000   | 54.282     | 627970.17   | 0.0383 | P   | 1.5 |
| 4 | <input type="checkbox"/> | 125.000  | 127.637    | 1458408.00  | 0.0900 | P   | 1.2 |
| 5 | <input type="checkbox"/> | 250.000  | 242.118    | 2733144.57  | 0.1706 | A   | 0.5 |
| 6 | <input type="checkbox"/> | 500.000  | 515.935    | 5731673.94  | 0.3635 | A   | 1.0 |
| 7 | <input type="checkbox"/> | 1000.000 | 993.456    | 11012879.97 | 0.6998 | A   | 2.3 |
| 8 | <input type="checkbox"/> |          |            | 4501.86     | 0.0003 | P   | 2.0 |

$$y = 7.0434\text{E-}004 * x + 9.9370\text{E-}005$$

$$R = 0.9998$$

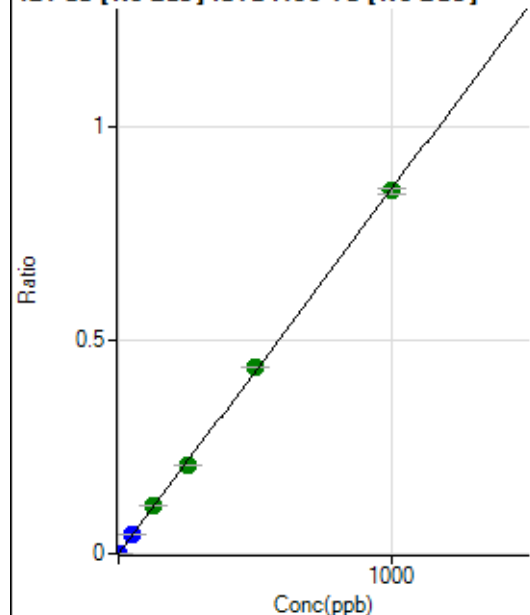
$$DL = 0.02172$$

$$BEC = 0.1411$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|-------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 58.89       | 0.0000 | P   | 44. |
| 2 | <input type="checkbox"/> | 2.000    | 2.195      | 30195.01    | 0.0019 | P   | 1.4 |
| 3 | <input type="checkbox"/> | 50.000   | 53.612     | 750928.79   | 0.0458 | P   | 1.6 |
| 4 | <input type="checkbox"/> | 125.000  | 132.756    | 1839324.16  | 0.1135 | A   | 0.8 |
| 5 | <input type="checkbox"/> | 250.000  | 243.285    | 3331512.03  | 0.2080 | A   | 0.8 |
| 6 | <input type="checkbox"/> | 500.000  | 511.240    | 6892047.74  | 0.4371 | A   | 0.7 |
| 7 | <input type="checkbox"/> | 1000.000 | 994.908    | 13386233.83 | 0.8506 | A   | 1.5 |
| 8 | <input type="checkbox"/> |          |            | 6440.39     | 0.0004 | P   | 3.1 |

$$y = 8.5493\text{E-}004 * x + 3.7008\text{E-}006$$

$$R = 0.9998$$

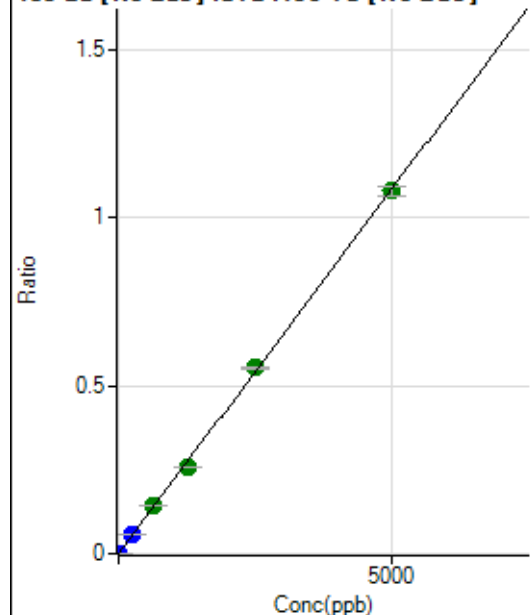
$$DL = 0.005833$$

$$BEC = 0.004329$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|-------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 57.78       | 0.0000 | P   | 16. |
| 2 | <input type="checkbox"/> | 10.000   | 10.712     | 37393.52    | 0.0023 | P   | 0.7 |
| 3 | <input type="checkbox"/> | 250.000  | 266.982    | 949092.02   | 0.0579 | P   | 1.8 |
| 4 | <input type="checkbox"/> | 625.000  | 658.492    | 2315604.44  | 0.1429 | A   | 2.0 |
| 5 | <input type="checkbox"/> | 1250.000 | 1196.140   | 4157459.94  | 0.2596 | A   | 0.5 |
| 6 | <input type="checkbox"/> | 2500.000 | 2555.419   | 8743018.62  | 0.5545 | A   | 1.4 |
| 7 | <input type="checkbox"/> | 5000.000 | 4980.719   | 17007110.02 | 1.0808 | A   | 2.3 |
| 8 | <input type="checkbox"/> |          |            | 7064.03     | 0.0005 | P   | 0.7 |

$$y = 2.1699\text{E-}004 * x + 3.6399\text{E-}006$$

$$R = 0.9998$$

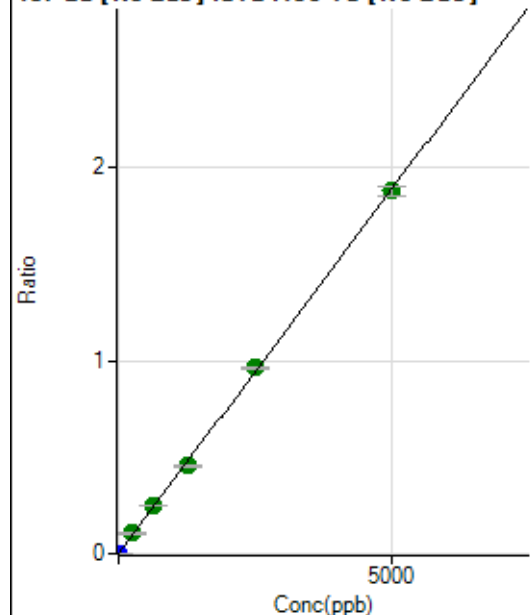
$$DL = 0.008287$$

$$BEC = 0.01677$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|-------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 96.67       | 0.0000 | P   | 13. |
| 2 | <input type="checkbox"/> | 10.000   | 10.654     | 64668.23    | 0.0040 | P   | 0.7 |
| 3 | <input type="checkbox"/> | 250.000  | 278.364    | 1720764.14  | 0.1050 | A   | 1.5 |
| 4 | <input type="checkbox"/> | 625.000  | 658.585    | 4027035.50  | 0.2485 | A   | 1.8 |
| 5 | <input type="checkbox"/> | 1250.000 | 1202.517   | 7267876.21  | 0.4537 | A   | 0.7 |
| 6 | <input type="checkbox"/> | 2500.000 | 2550.776   | 15176752.14 | 0.9625 | A   | 0.7 |
| 7 | <input type="checkbox"/> | 5000.000 | 4980.865   | 29574605.67 | 1.8794 | A   | 2.3 |
| 8 | <input type="checkbox"/> |          |            | 12664.60    | 0.0008 | P   | 3.5 |

$$y = 3.7732\text{E-}004 * x + 6.0988\text{E-}006$$

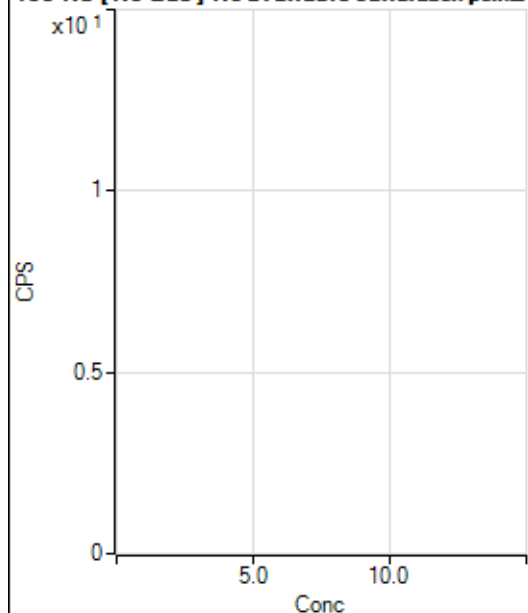
$$R = 0.9998$$

$$DL = 0.006666$$

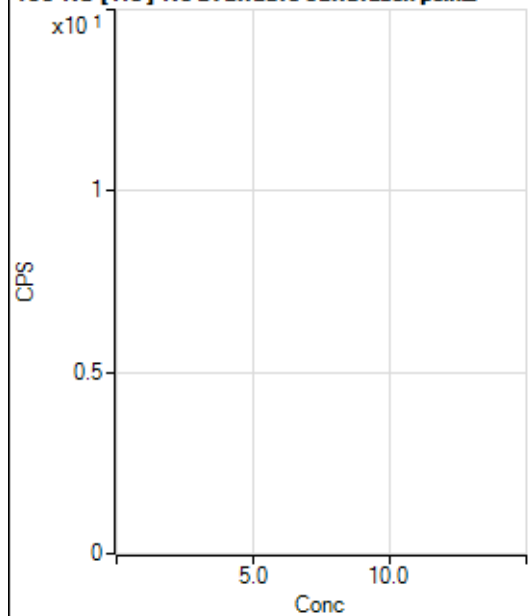
$$BEC = 0.01616$$

Weight: &lt;None&gt;

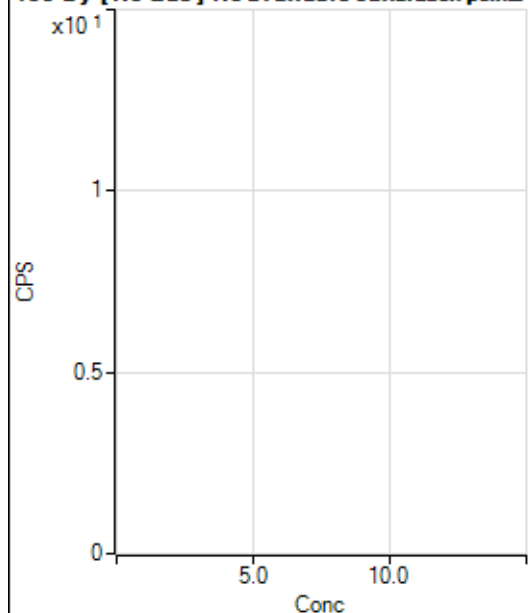
Min Conc: 0

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

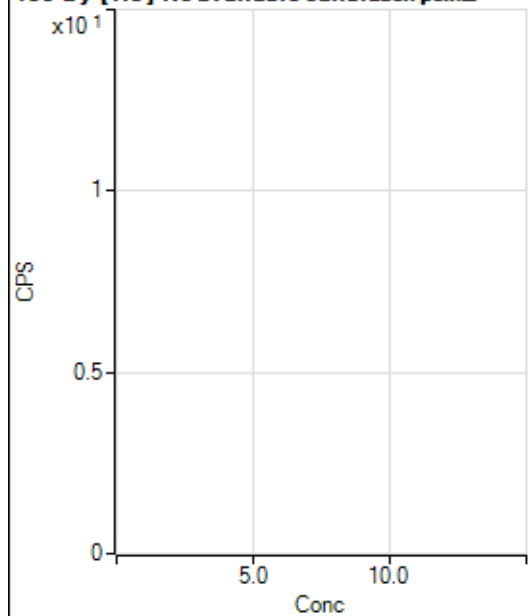
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|--------|-------|----------|-----|
| 1 | <input type="checkbox"/> |       |            | 8.89   |       | P        | 57. |
| 2 | <input type="checkbox"/> |       |            | 5.56   |       | P        | 91. |
| 3 | <input type="checkbox"/> |       |            | 62.22  |       | P        | 22. |
| 4 | <input type="checkbox"/> |       |            | 128.89 |       | P        | 14. |
| 5 | <input type="checkbox"/> |       |            | 203.34 |       | P        | 4.9 |
| 6 | <input type="checkbox"/> |       |            | 474.46 |       | P        | 19. |
| 7 | <input type="checkbox"/> |       |            | 913.38 |       | P        | 4.1 |
| 8 | <input type="checkbox"/> |       |            | 276.67 |       | P        | 7.9 |

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

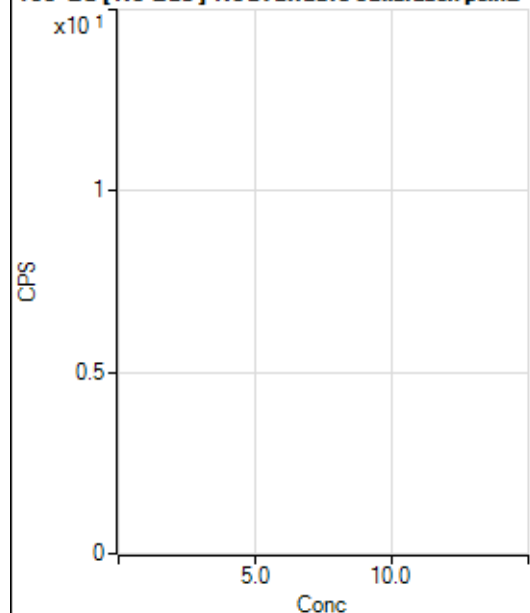
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|--------|-------|----------|-----|
| 1 | <input type="checkbox"/> |       |            | 5.56   |       | P        | 34. |
| 2 | <input type="checkbox"/> |       |            | 2.22   |       | P        | 86. |
| 3 | <input type="checkbox"/> |       |            | 17.78  |       | P        | 57. |
| 4 | <input type="checkbox"/> |       |            | 26.67  |       | P        | 12. |
| 5 | <input type="checkbox"/> |       |            | 52.22  |       | P        | 9.7 |
| 6 | <input type="checkbox"/> |       |            | 120.00 |       | P        | 21. |
| 7 | <input type="checkbox"/> |       |            | 184.45 |       | P        | 13. |
| 8 | <input type="checkbox"/> |       |            | 198.89 |       | P        | 9.2 |

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

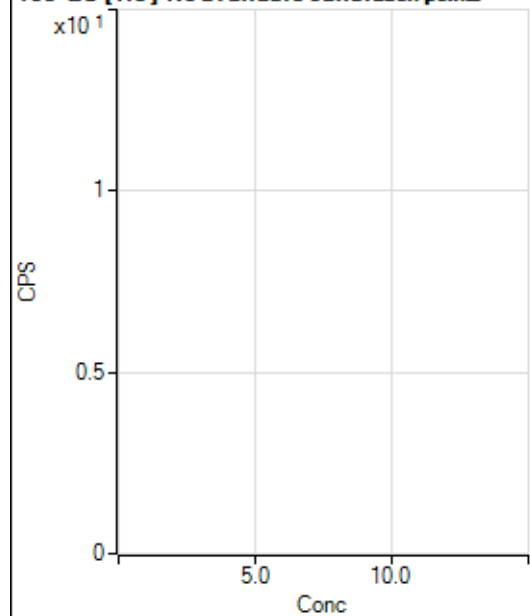
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|--------|-------|----------|-----|
| 1 | <input type="checkbox"/> |       |            | 10.00  |       | P        | 66. |
| 2 | <input type="checkbox"/> |       |            | 18.89  |       | P        | 27. |
| 3 | <input type="checkbox"/> |       |            | 32.22  |       | P        | 6.0 |
| 4 | <input type="checkbox"/> |       |            | 63.33  |       | P        | 36. |
| 5 | <input type="checkbox"/> |       |            | 68.89  |       | P        | 11. |
| 6 | <input type="checkbox"/> |       |            | 140.00 |       | P        | 2.4 |
| 7 | <input type="checkbox"/> |       |            | 248.89 |       | P        | 4.3 |
| 8 | <input type="checkbox"/> |       |            | 463.35 |       | P        | 4.4 |

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

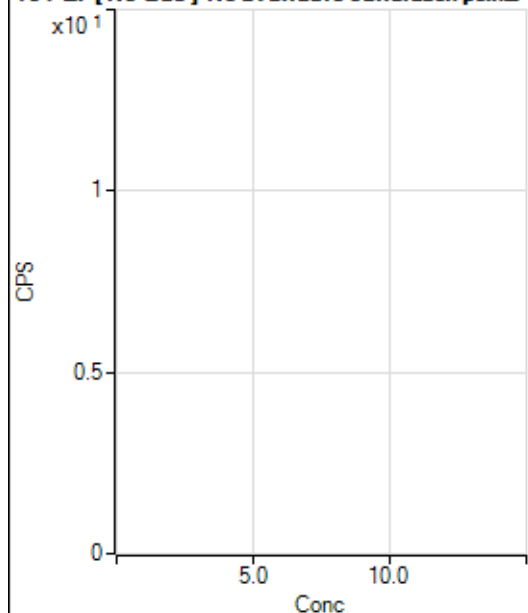
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|--------|-------|----------|-----|
| 1 | <input type="checkbox"/> |       |            | 5.55   |       | P        | 69. |
| 2 | <input type="checkbox"/> |       |            | 7.78   |       | P        | 24. |
| 3 | <input type="checkbox"/> |       |            | 55.56  |       | P        | 13. |
| 4 | <input type="checkbox"/> |       |            | 135.56 |       | P        | 6.2 |
| 5 | <input type="checkbox"/> |       |            | 223.34 |       | P        | 13. |
| 6 | <input type="checkbox"/> |       |            | 433.35 |       | P        | 12. |
| 7 | <input type="checkbox"/> |       |            | 846.70 |       | P        | 3.9 |
| 8 | <input type="checkbox"/> |       |            | 361.12 |       | P        | 11. |

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

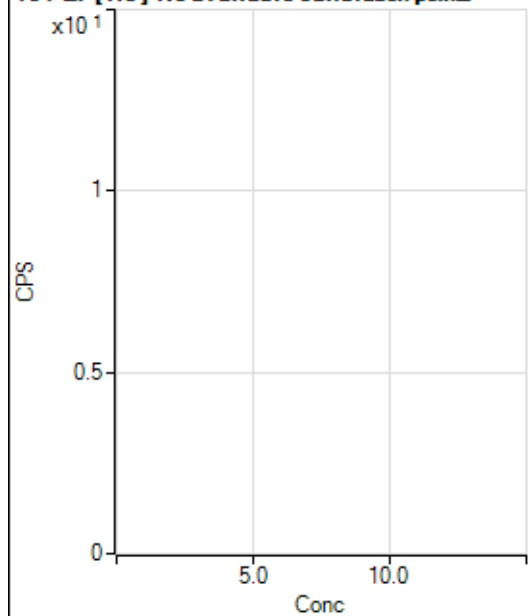
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|--------|-------|----------|-----|
| 1 | <input type="checkbox"/> |       |            | 60.00  |       | P        | 27. |
| 2 | <input type="checkbox"/> |       |            | 55.56  |       | P        | 17. |
| 3 | <input type="checkbox"/> |       |            | 54.45  |       | P        | 28. |
| 4 | <input type="checkbox"/> |       |            | 56.67  |       | P        | 21. |
| 5 | <input type="checkbox"/> |       |            | 94.44  |       | P        | 18. |
| 6 | <input type="checkbox"/> |       |            | 123.34 |       | P        | 9.7 |
| 7 | <input type="checkbox"/> |       |            | 187.78 |       | P        | 7.2 |
| 8 | <input type="checkbox"/> |       |            | 561.13 |       | P        | 7.6 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|--------|-------|----------|-----|
| 1 | <input type="checkbox"/> |       |            | 646.69 |       | P        | 8.5 |
| 2 | <input type="checkbox"/> |       |            | 637.80 |       | P        | 8.1 |
| 3 | <input type="checkbox"/> |       |            | 638.91 |       | P        | 1.6 |
| 4 | <input type="checkbox"/> |       |            | 636.69 |       | P        | 4.3 |
| 5 | <input type="checkbox"/> |       |            | 686.69 |       | P        | 3.0 |
| 6 | <input type="checkbox"/> |       |            | 663.35 |       | P        | 5.6 |
| 7 | <input type="checkbox"/> |       |            | 688.91 |       | P        | 5.2 |
| 8 | <input type="checkbox"/> |       |            | 938.93 |       | P        | 8.0 |

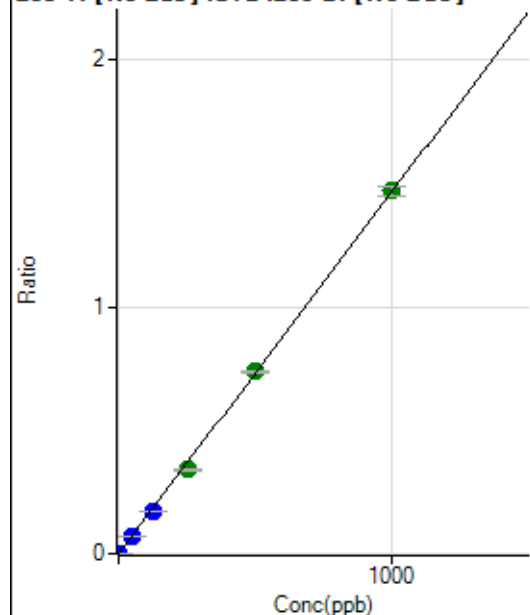
**164 Er [ No Gas ] No available calibration points**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|--------|-------|----------|-----|
| 1 | <input type="checkbox"/> |       |            | 53.33  |       | P        | 22. |
| 2 | <input type="checkbox"/> |       |            | 50.00  |       | P        | 30. |
| 3 | <input type="checkbox"/> |       |            | 72.22  |       | P        | 25. |
| 4 | <input type="checkbox"/> |       |            | 76.67  |       | P        | 28. |
| 5 | <input type="checkbox"/> |       |            | 81.11  |       | P        | 20. |
| 6 | <input type="checkbox"/> |       |            | 122.22 |       | P        | 24. |
| 7 | <input type="checkbox"/> |       |            | 182.22 |       | P        | 5.9 |
| 8 | <input type="checkbox"/> |       |            | 535.57 |       | P        | 9.5 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|--------|-------|----------|-----|
| 1 | <input type="checkbox"/> |       |            | 56.67  |       | P        | 17. |
| 2 | <input type="checkbox"/> |       |            | 50.00  |       | P        | 17. |
| 3 | <input type="checkbox"/> |       |            | 46.67  |       | P        | 14. |
| 4 | <input type="checkbox"/> |       |            | 54.44  |       | P        | 27. |
| 5 | <input type="checkbox"/> |       |            | 67.78  |       | P        | 18. |
| 6 | <input type="checkbox"/> |       |            | 101.11 |       | P        | 8.3 |
| 7 | <input type="checkbox"/> |       |            | 143.34 |       | P        | 10. |
| 8 | <input type="checkbox"/> |       |            | 385.57 |       | P        | 10. |

203 TI [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      | 138.89      | 0.0000 | P   | 4.1 |
| 2 | <input type="checkbox"/> | 1.000    | 0.986      | 13431.17    | 0.0015 | P   | 2.0 |
| 3 | <input type="checkbox"/> | 50.000   | 48.689     | 680995.16   | 0.0713 | P   | 0.8 |
| 4 | <input type="checkbox"/> | 125.000  | 116.000    | 1601784.92  | 0.1698 | P   | 1.4 |
| 5 | <input type="checkbox"/> | 250.000  | 231.583    | 3195983.39  | 0.3391 | A   | 1.0 |
| 6 | <input type="checkbox"/> | 500.000  | 503.082    | 6869597.82  | 0.7365 | A   | 0.8 |
| 7 | <input type="checkbox"/> | 1000.000 | 1004.254   | 13368414.39 | 1.4703 | A   | 2.5 |
| 8 | <input type="checkbox"/> |          |            | 1697.90     | 0.0002 | P   | 19. |

$$y = 0.0015 * x + 1.5143E-005$$

$$R = 0.9998$$

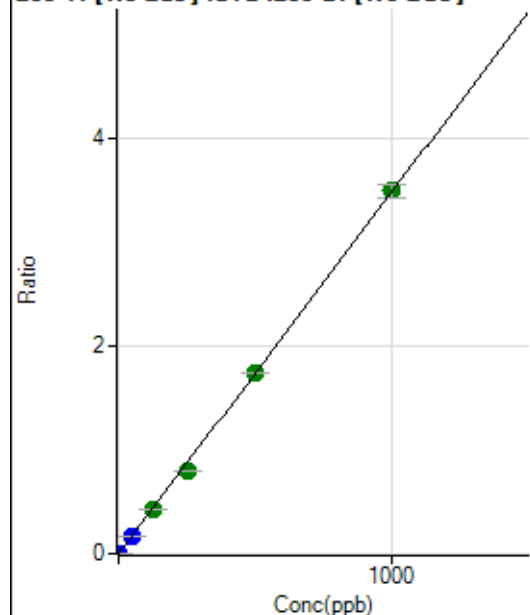
$$DL = 0.001264$$

$$BEC = 0.01034$$

Weight: &lt;None&gt;

Min Conc: 0

205 TI [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      | 323.34      | 0.0000 | P   | 12. |
| 2 | <input type="checkbox"/> | 1.000    | 0.979      | 31641.20    | 0.0034 | P   | 1.2 |
| 3 | <input type="checkbox"/> | 50.000   | 48.119     | 1595948.46  | 0.1671 | P   | 1.2 |
| 4 | <input type="checkbox"/> | 125.000  | 124.690    | 4083451.88  | 0.4329 | A   | 0.2 |
| 5 | <input type="checkbox"/> | 250.000  | 230.763    | 7552454.26  | 0.8012 | A   | 0.7 |
| 6 | <input type="checkbox"/> | 500.000  | 501.220    | 16231079.34 | 1.7402 | A   | 0.2 |
| 7 | <input type="checkbox"/> | 1000.000 | 1004.332   | 31698055.64 | 3.4869 | A   | 3.7 |
| 8 | <input type="checkbox"/> |          |            | 3817.25     | 0.0005 | P   | 14. |

$$y = 0.0035 * x + 3.5214E-005$$

$$R = 0.9998$$

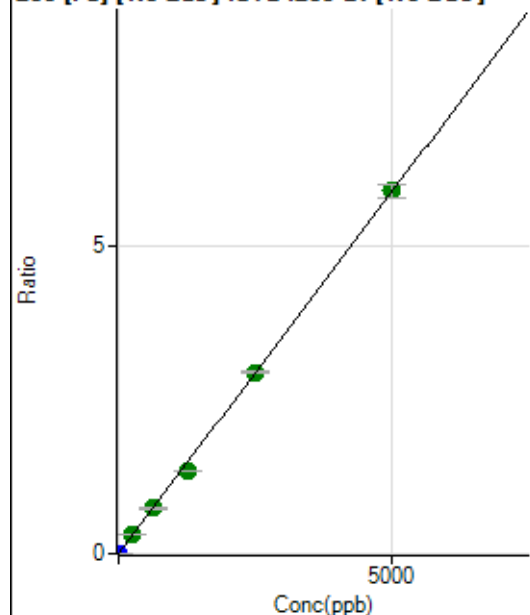
$$DL = 0.003787$$

$$BEC = 0.01014$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|-------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 505.57      | 0.0001 | P   | 7.7 |
| 2 | <input type="checkbox"/> | 1.000    | 0.958      | 10868.87    | 0.0012 | P   | 2.9 |
| 3 | <input type="checkbox"/> | 250.000  | 260.857    | 2926437.59  | 0.3064 | A   | 1.0 |
| 4 | <input type="checkbox"/> | 625.000  | 625.095    | 6923846.91  | 0.7341 | A   | 1.0 |
| 5 | <input type="checkbox"/> | 1250.000 | 1153.723   | 12771701.48 | 1.3549 | A   | 0.6 |
| 6 | <input type="checkbox"/> | 2500.000 | 2510.454   | 27497255.70 | 2.9482 | A   | 0.6 |
| 7 | <input type="checkbox"/> | 5000.000 | 5018.288   | 53574643.65 | 5.8932 | A   | 3.6 |
| 8 | <input type="checkbox"/> |          |            | 12870.64    | 0.0016 | P   | 3.3 |

$$y = 0.0012 * x + 5.5073E-005$$

$$R = 0.9998$$

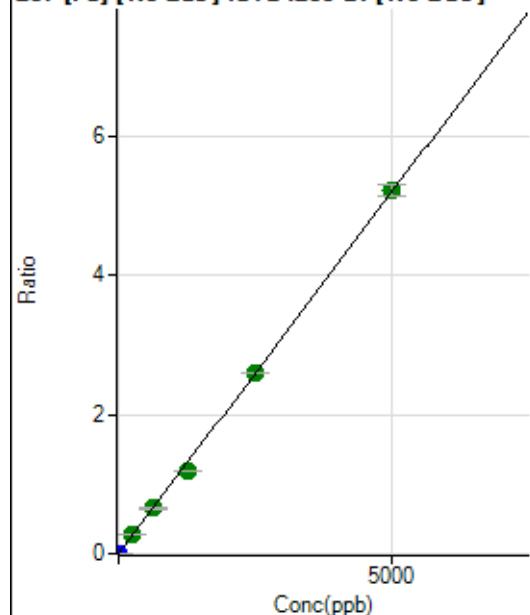
$$DL = 0.01078$$

$$BEC = 0.0469$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|-------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 446.68      | 0.0000 | P   | 15. |
| 2 | <input type="checkbox"/> | 1.000    | 0.971      | 9732.44     | 0.0011 | P   | 3.3 |
| 3 | <input type="checkbox"/> | 250.000  | 259.215    | 2569332.69  | 0.2690 | A   | 1.0 |
| 4 | <input type="checkbox"/> | 625.000  | 625.900    | 6125613.52  | 0.6494 | A   | 0.6 |
| 5 | <input type="checkbox"/> | 1250.000 | 1152.556   | 11273123.30 | 1.1959 | A   | 0.6 |
| 6 | <input type="checkbox"/> | 2500.000 | 2504.107   | 24232541.31 | 2.5981 | A   | 0.7 |
| 7 | <input type="checkbox"/> | 5000.000 | 5021.734   | 47368312.07 | 5.2102 | A   | 3.2 |
| 8 | <input type="checkbox"/> |          |            | 10673.17    | 0.0013 | P   | 5.0 |

$$y = 0.0010 * x + 4.8640E-005$$

$$R = 0.9998$$

$$DL = 0.02163$$

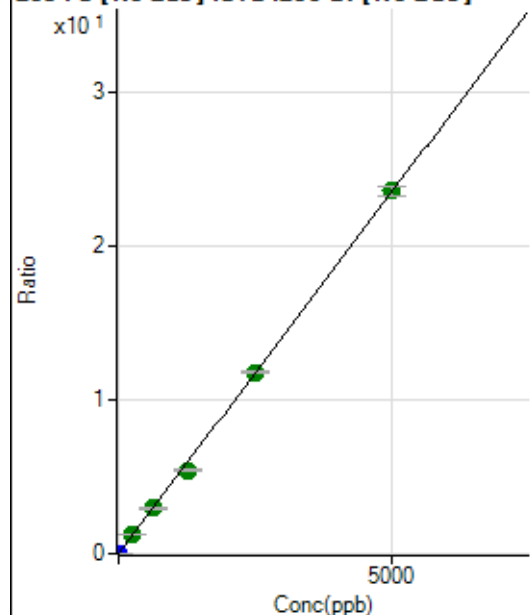
$$BEC = 0.04688$$

Weight: &lt;None&gt;

Min Conc: 0



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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS          | Ratio   | Det | RSD |
|---|--------------------------|----------|------------|--------------|---------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 2013.42      | 0.0002  | P   | 5.8 |
| 2 | <input type="checkbox"/> | 1.000    | 0.965      | 43773.36     | 0.0048  | P   | 1.6 |
| 3 | <input type="checkbox"/> | 250.000  | 260.348    | 11680571.37  | 1.2230  | A   | 1.3 |
| 4 | <input type="checkbox"/> | 625.000  | 625.520    | 27711602.29  | 2.9380  | A   | 0.2 |
| 5 | <input type="checkbox"/> | 1250.000 | 1155.173   | 51144249.38  | 5.4256  | A   | 0.4 |
| 6 | <input type="checkbox"/> | 2500.000 | 2509.631   | 109935798.36 | 11.7869 | A   | 0.6 |
| 7 | <input type="checkbox"/> | 5000.000 | 5018.309   | 214283349.58 | 23.5690 | A   | 2.9 |
| 8 | <input type="checkbox"/> |          |            | 49768.06     | 0.0063  | P   | 3.2 |

$$y = 0.0047 * x + 2.1940E-004$$

$$R = 0.9998$$

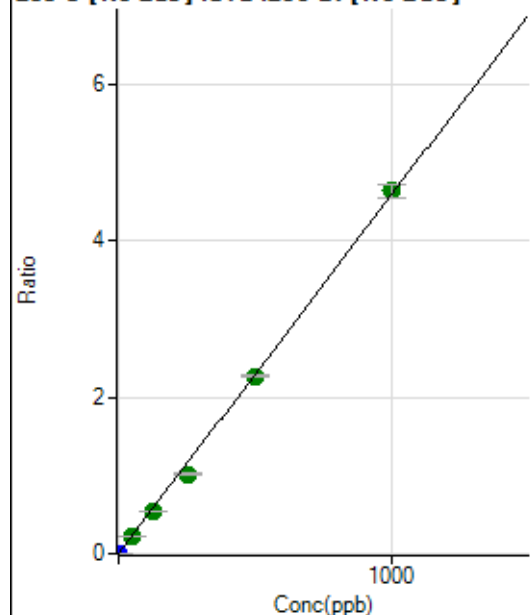
$$DL = 0.008173$$

$$BEC = 0.04672$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|-------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 27.78       | 0.0000 | P   | 29. |
| 2 | <input type="checkbox"/> | 1.000    | 0.903      | 38244.75    | 0.0042 | P   | 1.2 |
| 3 | <input type="checkbox"/> | 50.000   | 49.066     | 2152862.85  | 0.2254 | A   | 1.5 |
| 4 | <input type="checkbox"/> | 125.000  | 119.146    | 5162200.37  | 0.5473 | A   | 0.8 |
| 5 | <input type="checkbox"/> | 250.000  | 222.091    | 9617136.80  | 1.0203 | A   | 1.1 |
| 6 | <input type="checkbox"/> | 500.000  | 493.942    | 21162954.41 | 2.2691 | A   | 1.5 |
| 7 | <input type="checkbox"/> | 1000.000 | 1010.785   | 42210751.59 | 4.6434 | A   | 3.7 |
| 8 | <input type="checkbox"/> |          |            | 3695.00     | 0.0005 | P   | 9.7 |

$$y = 0.0046 * x + 3.0347E-006$$

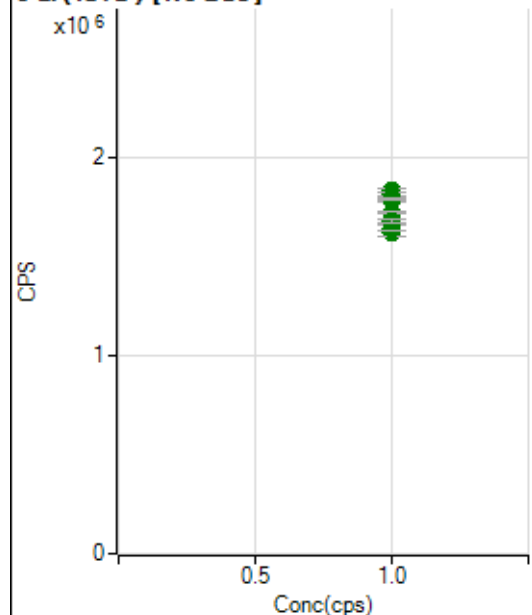
$$R = 0.9995$$

$$DL = 0.000577$$

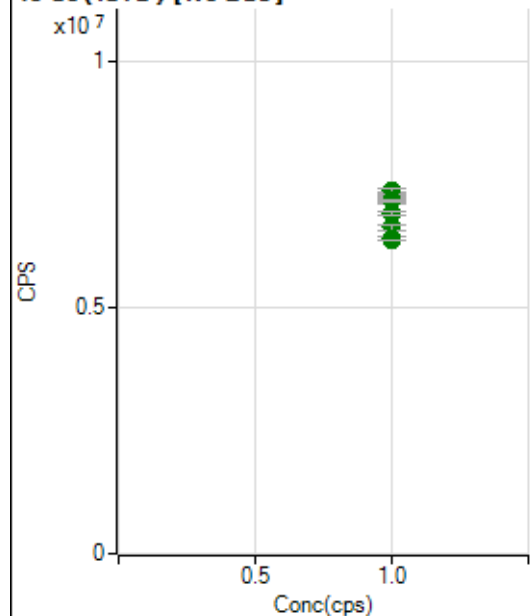
$$BEC = 0.0006606$$

Weight: &lt;None&gt;

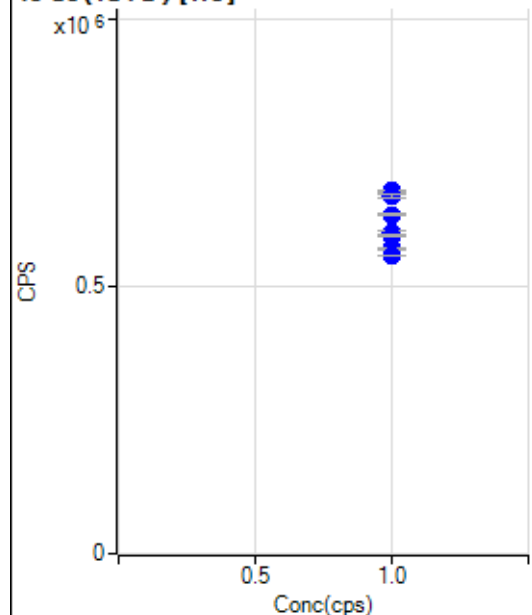
Min Conc: 0

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

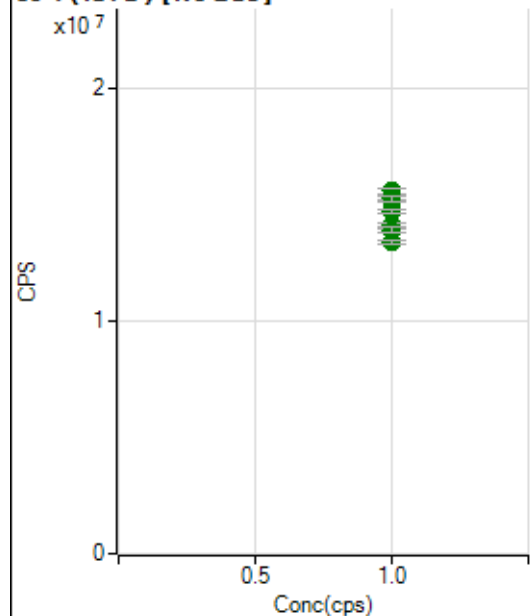
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det. | RSD |
|---|--------------------------|-------|------------|------------|-------|------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 1619578.22 |       | A    | 1.5 |
| 2 | <input type="checkbox"/> | 1.000 |            | 1643384.70 |       | A    | 1.6 |
| 3 | <input type="checkbox"/> | 1.000 |            | 1722925.44 |       | A    | 0.6 |
| 4 | <input type="checkbox"/> | 1.000 |            | 1783998.83 |       | A    | 0.4 |
| 5 | <input type="checkbox"/> | 1.000 |            | 1832961.81 |       | A    | 1.0 |
| 6 | <input type="checkbox"/> | 1.000 |            | 1815997.98 |       | A    | 1.3 |
| 7 | <input type="checkbox"/> | 1.000 |            | 1794230.70 |       | A    | 0.7 |
| 8 | <input type="checkbox"/> | 1.000 |            | 1680283.72 |       | A    | 1.0 |

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

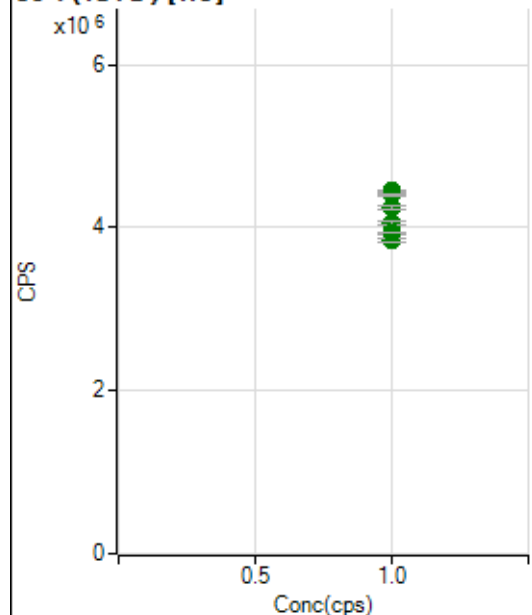
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det. | RSD |
|---|--------------------------|-------|------------|------------|-------|------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 7188004.75 |       | A    | 1.6 |
| 2 | <input type="checkbox"/> | 1.000 |            | 7293436.70 |       | A    | 1.1 |
| 3 | <input type="checkbox"/> | 1.000 |            | 7374666.49 |       | A    | 1.4 |
| 4 | <input type="checkbox"/> | 1.000 |            | 7176658.09 |       | A    | 0.6 |
| 5 | <input type="checkbox"/> | 1.000 |            | 6908327.33 |       | A    | 1.1 |
| 6 | <input type="checkbox"/> | 1.000 |            | 6641654.90 |       | A    | 1.7 |
| 7 | <input type="checkbox"/> | 1.000 |            | 6408616.16 |       | A    | 1.7 |
| 8 | <input type="checkbox"/> | 1.000 |            | 6380531.99 |       | A    | 0.3 |

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

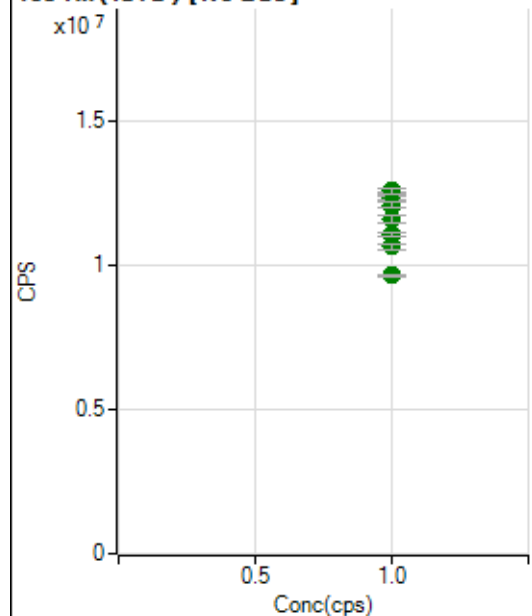
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS       | Ratio | Det. | RSD |
|---|--------------------------|-------|------------|-----------|-------|------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 677033.85 |       | P    | 0.2 |
| 2 | <input type="checkbox"/> | 1.000 |            | 678810.05 |       | P    | 0.6 |
| 3 | <input type="checkbox"/> | 1.000 |            | 668739.39 |       | P    | 0.9 |
| 4 | <input type="checkbox"/> | 1.000 |            | 635005.27 |       | P    | 0.4 |
| 5 | <input type="checkbox"/> | 1.000 |            | 599680.97 |       | P    | 1.4 |
| 6 | <input type="checkbox"/> | 1.000 |            | 570691.92 |       | P    | 0.6 |
| 7 | <input type="checkbox"/> | 1.000 |            | 557646.01 |       | P    | 0.5 |
| 8 | <input type="checkbox"/> | 1.000 |            | 595254.26 |       | P    | 0.4 |

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

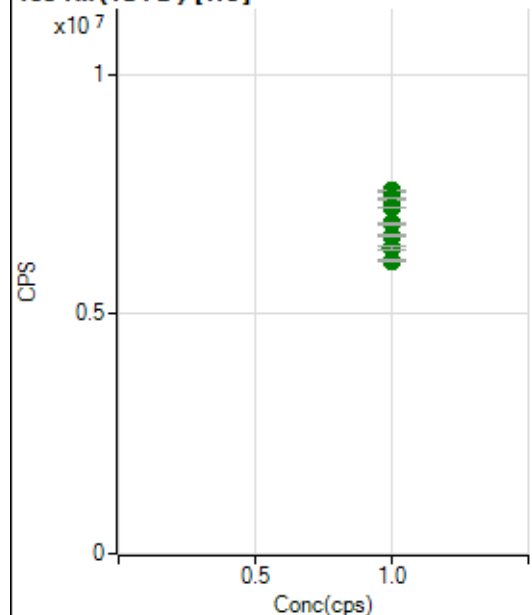
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det. | RSD |
|---|--------------------------|-------|------------|-------------|-------|------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 15144960.05 |       | A    | 0.8 |
| 2 | <input type="checkbox"/> | 1.000 |            | 15287194.91 |       | A    | 0.9 |
| 3 | <input type="checkbox"/> | 1.000 |            | 15588694.91 |       | A    | 1.5 |
| 4 | <input type="checkbox"/> | 1.000 |            | 15246390.88 |       | A    | 1.4 |
| 5 | <input type="checkbox"/> | 1.000 |            | 14715564.92 |       | A    | 1.1 |
| 6 | <input type="checkbox"/> | 1.000 |            | 14091845.48 |       | A    | 1.4 |
| 7 | <input type="checkbox"/> | 1.000 |            | 13914381.74 |       | A    | 1.5 |
| 8 | <input type="checkbox"/> | 1.000 |            | 13379062.16 |       | A    | 0.9 |

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

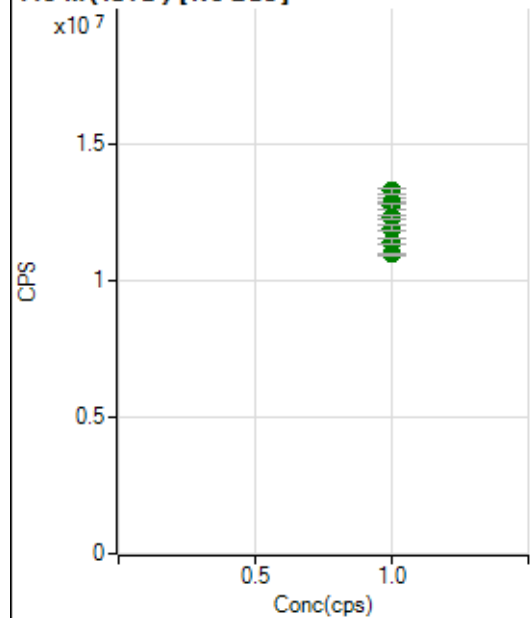
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det. | RSD |
|---|--------------------------|-------|------------|------------|-------|------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 4425118.06 |       | A    | 0.4 |
| 2 | <input type="checkbox"/> | 1.000 |            | 4451146.88 |       | A    | 0.8 |
| 3 | <input type="checkbox"/> | 1.000 |            | 4400920.45 |       | A    | 0.9 |
| 4 | <input type="checkbox"/> | 1.000 |            | 4241041.29 |       | A    | 0.8 |
| 5 | <input type="checkbox"/> | 1.000 |            | 4063295.18 |       | A    | 1.1 |
| 6 | <input type="checkbox"/> | 1.000 |            | 3921967.75 |       | A    | 0.8 |
| 7 | <input type="checkbox"/> | 1.000 |            | 3837414.70 |       | A    | 1.1 |
| 8 | <input type="checkbox"/> | 1.000 |            | 3936150.49 |       | A    | 0.3 |

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

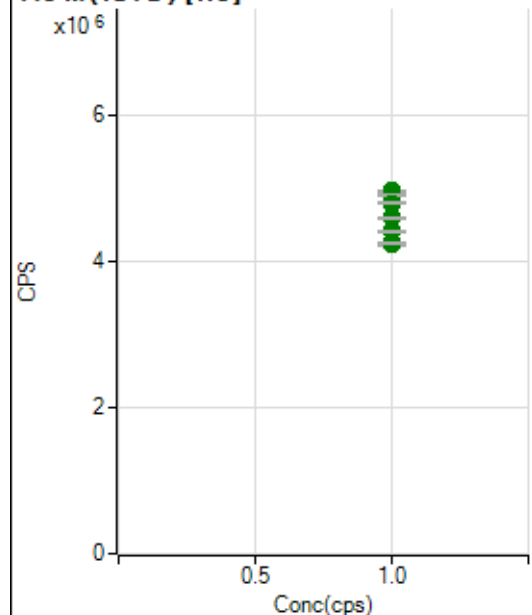
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det. | RSD |
|---|--------------------------|-------|------------|-------------|-------|------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 12291593.99 |       | A    | 1.1 |
| 2 | <input type="checkbox"/> | 1.000 |            | 12463312.73 |       | A    | 0.8 |
| 3 | <input type="checkbox"/> | 1.000 |            | 12560933.29 |       | A    | 1.7 |
| 4 | <input type="checkbox"/> | 1.000 |            | 12074796.21 |       | A    | 1.8 |
| 5 | <input type="checkbox"/> | 1.000 |            | 11606871.35 |       | A    | 2.2 |
| 6 | <input type="checkbox"/> | 1.000 |            | 11053496.09 |       | A    | 1.5 |
| 7 | <input type="checkbox"/> | 1.000 |            | 10632527.13 |       | A    | 2.1 |
| 8 | <input type="checkbox"/> | 1.000 |            | 9639573.68  |       | A    | 0.9 |

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

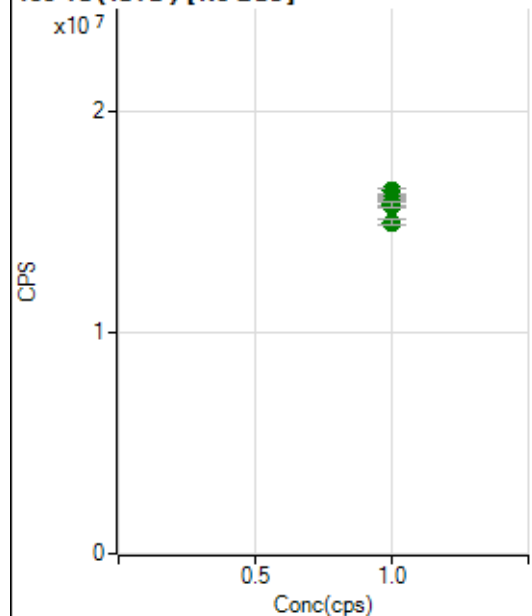
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det. | RSD |
|---|--------------------------|-------|------------|------------|-------|------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 7544151.07 |       | A    | 0.6 |
| 2 | <input type="checkbox"/> | 1.000 |            | 7564707.94 |       | A    | 0.2 |
| 3 | <input type="checkbox"/> | 1.000 |            | 7397755.51 |       | A    | 0.6 |
| 4 | <input type="checkbox"/> | 1.000 |            | 7219188.50 |       | A    | 0.3 |
| 5 | <input type="checkbox"/> | 1.000 |            | 6883897.68 |       | A    | 0.5 |
| 6 | <input type="checkbox"/> | 1.000 |            | 6634004.14 |       | A    | 0.8 |
| 7 | <input type="checkbox"/> | 1.000 |            | 6370203.38 |       | A    | 1.1 |
| 8 | <input type="checkbox"/> | 1.000 |            | 6097062.83 |       | A    | 0.6 |

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

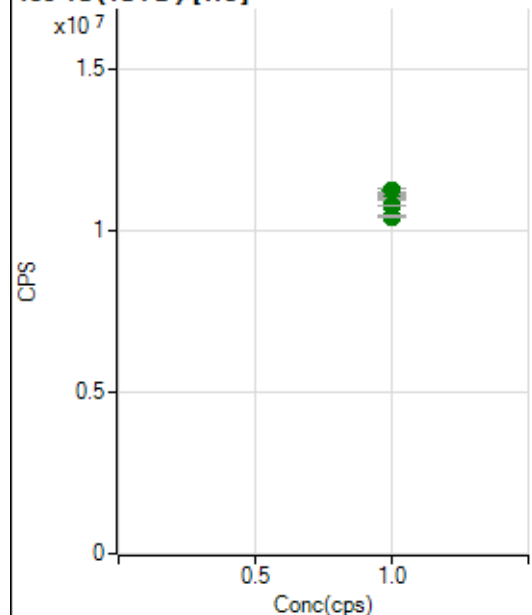
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det. | RSD |
|---|--------------------------|-------|------------|-------------|-------|------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 12930252.70 |       | A    | 1.3 |
| 2 | <input type="checkbox"/> | 1.000 |            | 12896628.40 |       | A    | 0.6 |
| 3 | <input type="checkbox"/> | 1.000 |            | 13300705.44 |       | A    | 1.4 |
| 4 | <input type="checkbox"/> | 1.000 |            | 12753770.92 |       | A    | 1.6 |
| 5 | <input type="checkbox"/> | 1.000 |            | 12340233.39 |       | A    | 1.3 |
| 6 | <input type="checkbox"/> | 1.000 |            | 11937288.67 |       | A    | 1.8 |
| 7 | <input type="checkbox"/> | 1.000 |            | 11438073.93 |       | A    | 1.6 |
| 8 | <input type="checkbox"/> | 1.000 |            | 10965560.06 |       | A    | 0.9 |

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

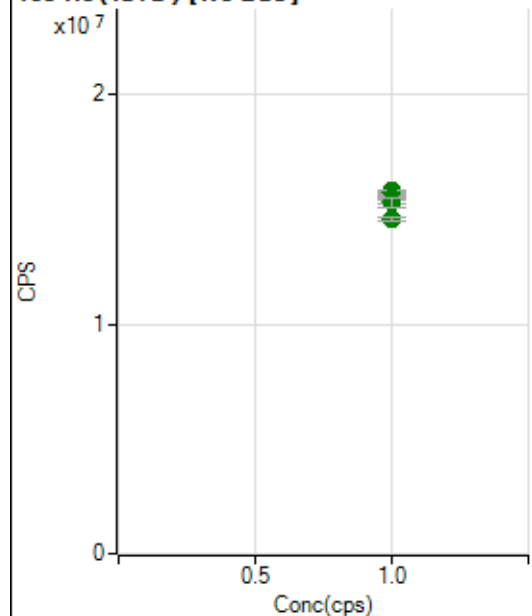
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det. | RSD |
|---|--------------------------|-------|------------|------------|-------|------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 4926219.05 |       | A    | 0.5 |
| 2 | <input type="checkbox"/> | 1.000 |            | 4963812.68 |       | A    | 0.6 |
| 3 | <input type="checkbox"/> | 1.000 |            | 4910507.43 |       | A    | 0.7 |
| 4 | <input type="checkbox"/> | 1.000 |            | 4795595.50 |       | A    | 0.8 |
| 5 | <input type="checkbox"/> | 1.000 |            | 4591093.40 |       | A    | 0.8 |
| 6 | <input type="checkbox"/> | 1.000 |            | 4413570.25 |       | A    | 0.4 |
| 7 | <input type="checkbox"/> | 1.000 |            | 4233898.47 |       | A    | 1.0 |
| 8 | <input type="checkbox"/> | 1.000 |            | 4250247.02 |       | A    | 0.6 |

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

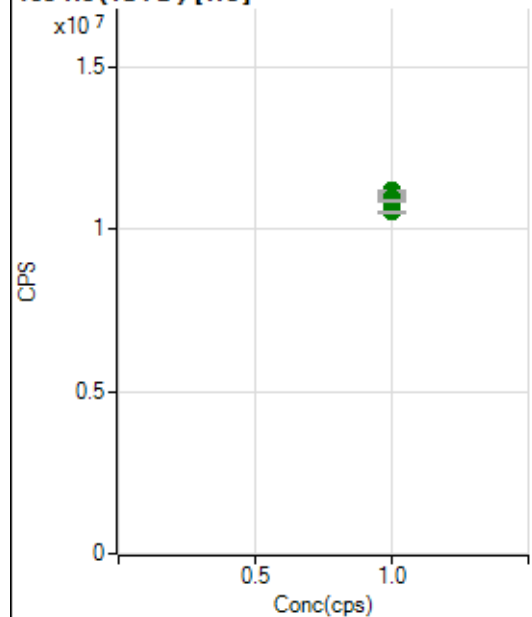
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det. | RSD |
|---|--------------------------|-------|------------|-------------|-------|------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 15851956.15 |       | A    | 1.4 |
| 2 | <input type="checkbox"/> | 1.000 |            | 16062252.40 |       | A    | 0.6 |
| 3 | <input type="checkbox"/> | 1.000 |            | 16384853.64 |       | A    | 1.6 |
| 4 | <input type="checkbox"/> | 1.000 |            | 16205370.59 |       | A    | 0.7 |
| 5 | <input type="checkbox"/> | 1.000 |            | 16017650.73 |       | A    | 0.6 |
| 6 | <input type="checkbox"/> | 1.000 |            | 15769274.77 |       | A    | 1.2 |
| 7 | <input type="checkbox"/> | 1.000 |            | 15740170.60 |       | A    | 1.6 |
| 8 | <input type="checkbox"/> | 1.000 |            | 14971583.94 |       | A    | 2.1 |

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

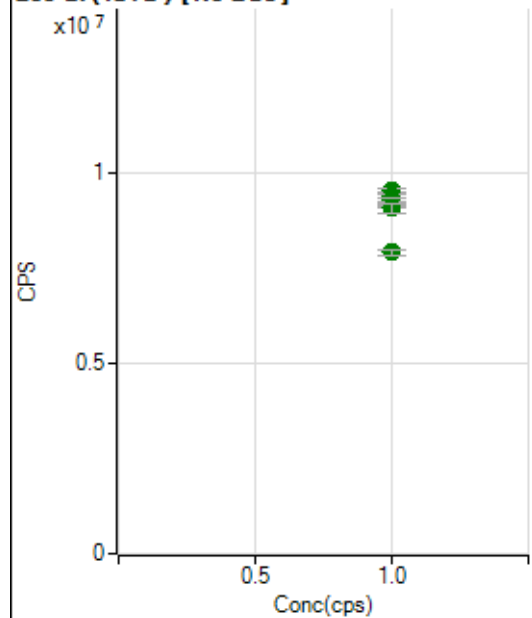
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 11075431.78 |       | A        | 0.4 |
| 2 | <input type="checkbox"/> | 1.000 |            | 11142985.11 |       | A        | 0.4 |
| 3 | <input type="checkbox"/> | 1.000 |            | 11213349.00 |       | A        | 1.6 |
| 4 | <input type="checkbox"/> | 1.000 |            | 11164659.97 |       | A        | 0.6 |
| 5 | <input type="checkbox"/> | 1.000 |            | 11089683.45 |       | A        | 0.6 |
| 6 | <input type="checkbox"/> | 1.000 |            | 10939267.06 |       | A        | 0.6 |
| 7 | <input type="checkbox"/> | 1.000 |            | 10768290.26 |       | A        | 0.3 |
| 8 | <input type="checkbox"/> | 1.000 |            | 10424314.29 |       | A        | 0.7 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 15359306.58 |       | A        | 1.2 |
| 2 | <input type="checkbox"/> | 1.000 |            | 15503175.33 |       | A        | 0.8 |
| 3 | <input type="checkbox"/> | 1.000 |            | 15810737.40 |       | A        | 0.9 |
| 4 | <input type="checkbox"/> | 1.000 |            | 15751051.15 |       | A        | 1.1 |
| 5 | <input type="checkbox"/> | 1.000 |            | 15502304.49 |       | A        | 1.0 |
| 6 | <input type="checkbox"/> | 1.000 |            | 15372536.44 |       | A        | 1.3 |
| 7 | <input type="checkbox"/> | 1.000 |            | 15299067.41 |       | A        | 2.4 |
| 8 | <input type="checkbox"/> | 1.000 |            | 14572659.23 |       | A        | 0.8 |

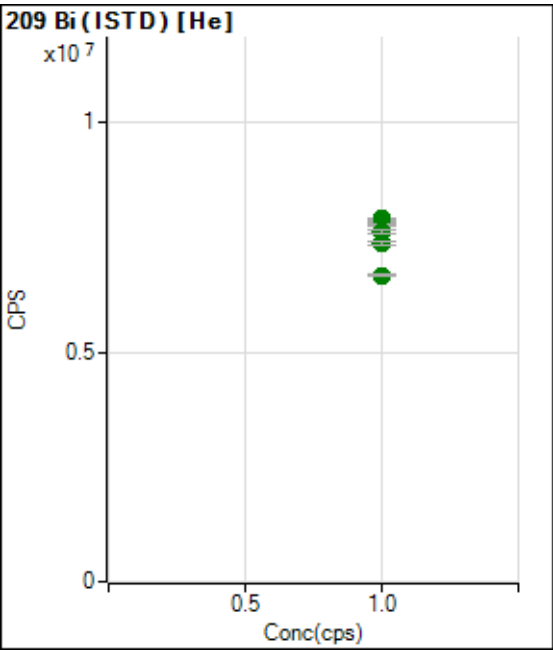
**165 Ho (ISTD) [He]**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det. | RSD |
|---|--------------------------|-------|------------|-------------|-------|------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 11043742.20 |       | A    | 0.5 |
| 2 | <input type="checkbox"/> | 1.000 |            | 11053959.84 |       | A    | 0.2 |
| 3 | <input type="checkbox"/> | 1.000 |            | 11167963.17 |       | A    | 0.4 |
| 4 | <input type="checkbox"/> | 1.000 |            | 11181822.06 |       | A    | 0.8 |
| 5 | <input type="checkbox"/> | 1.000 |            | 11157090.67 |       | A    | 0.4 |
| 6 | <input type="checkbox"/> | 1.000 |            | 10948960.81 |       | A    | 0.2 |
| 7 | <input type="checkbox"/> | 1.000 |            | 10862834.35 |       | A    | 0.8 |
| 8 | <input type="checkbox"/> | 1.000 |            | 10536679.01 |       | A    | 0.5 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det. | RSD |
|---|--------------------------|-------|------------|------------|-------|------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 9175289.24 |       | A    | 1.4 |
| 2 | <input type="checkbox"/> | 1.000 |            | 9211328.47 |       | A    | 0.5 |
| 3 | <input type="checkbox"/> | 1.000 |            | 9552048.82 |       | A    | 1.3 |
| 4 | <input type="checkbox"/> | 1.000 |            | 9432123.13 |       | A    | 1.3 |
| 5 | <input type="checkbox"/> | 1.000 |            | 9426476.11 |       | A    | 0.8 |
| 6 | <input type="checkbox"/> | 1.000 |            | 9327404.17 |       | A    | 1.4 |
| 7 | <input type="checkbox"/> | 1.000 |            | 9095953.96 |       | A    | 2.4 |
| 8 | <input type="checkbox"/> | 1.000 |            | 7939278.36 |       | A    | 1.8 |





|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 7745851.76 |       | A        | 0.2 |
| 2 | <input type="checkbox"/> | 1.000 |            | 7814808.84 |       | A        | 1.6 |
| 3 | <input type="checkbox"/> | 1.000 |            | 7895642.66 |       | A        | 0.9 |
| 4 | <input type="checkbox"/> | 1.000 |            | 7851958.22 |       | A        | 0.8 |
| 5 | <input type="checkbox"/> | 1.000 |            | 7770839.95 |       | A        | 0.4 |
| 6 | <input type="checkbox"/> | 1.000 |            | 7612779.75 |       | A        | 1.1 |
| 7 | <input type="checkbox"/> | 1.000 |            | 7384555.45 |       | A        | 1.1 |
| 8 | <input type="checkbox"/> | 1.000 |            | 6665806.01 |       | A        | 0.8 |

# US EPA Tune Check Report

Operator Name                   Jaswal

Acq/Data Batch                 D:\Agilent\ICPMH\1\DATA\IP7122024MS3.b

Acq. Date-Time                2024-12-20 18:50:35

Report Comment               ---

Instrument Name                G8403A JP14410463

[No Gas]

Sensitivity

| Mass | Conc. [ug/l] | Count  | CPS        | Resp (Required) [cps/ug/l] | Resp (Flag) | RSD%   | RSD% (Required) |
|------|--------------|--------|------------|----------------------------|-------------|--------|-----------------|
| 9    |              | 9831   | 98312.28   |                            |             | 0.246  | 5.000           |
| 24   |              | 74697  | 746969.95  |                            |             | 0.443  | 5.000           |
| 25   |              | 9210   | 92099.22   |                            |             | 0.291  | 5.000           |
| 26   |              | 10483  | 104828.05  |                            |             | 0.146  | 5.000           |
| 59   |              | 119088 | 1190878.26 |                            |             | 0.800  | 5.000           |
| 113  |              | 15342  | 153423.64  |                            |             | 0.462  | 5.000           |
| 115  |              | 197377 | 1973767.87 |                            |             | 0.974  | 5.000           |
| 206  |              | 38456  | 384563.63  |                            |             | 0.739  | 5.000           |
| 207  |              | 33388  | 333878.86  |                            |             | 0.518  | 5.000           |
| 208  |              | 81095  | 810946.57  |                            |             | 2.663  | 5.000           |
| 220  |              | 0      | 2.60       |                            |             | 34.401 |                 |

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

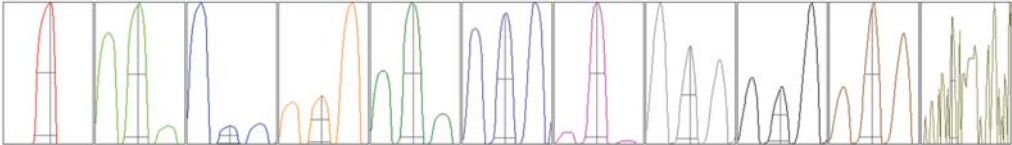
| Mass | Rep#1 Count | Rep#2 Count | Rep#3 Count | Rep#4 Count | Rep#5 Count |
|------|-------------|-------------|-------------|-------------|-------------|
| 9    | 9873        | 9826        | 9811        | 9830        | 9817        |
| 24   | 75080       | 74201       | 74897       | 74620       | 74687       |
| 25   | 9223        | 9228        | 9195        | 9170        | 9234        |
| 26   | 10484       | 10507       | 10466       | 10484       | 10473       |
| 59   | 120365      | 119761      | 118813      | 118067      | 118434      |
| 113  | 15429       | 15406       | 15297       | 15269       | 15310       |
| 115  | 200596      | 195467      | 196955      | 197245      | 196621      |
| 206  | 38790       | 38631       | 38514       | 38267       | 38079       |
| 207  | 33575       | 33574       | 33241       | 33237       | 33313       |
| 208  | 80907       | 84873       | 79726       | 80010       | 79957       |

# US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



| Mass | Peak Height | Axis   | Axis (Required) | Axis (Flag) |
|------|-------------|--------|-----------------|-------------|
| 9    | 17184.37    | 9.10   | 8.90 - 9.10     |             |
| 24   | 124173.64   | 23.95  | 23.90 - 24.10   |             |
| 25   | 15738.05    | 24.95  | 24.90 - 25.10   |             |
| 26   | 18044.16    | 25.95  | 25.90 - 26.10   |             |
| 59   | 206375.88   | 58.95  | 58.90 - 59.10   |             |
| 113  | 30496.29    | 112.95 | 112.90 - 113.10 |             |
| 115  | 384653.24   | 114.95 | 114.90 - 115.10 |             |
| 206  | 82002.28    | 206.00 | 205.90 - 206.10 |             |
| 207  | 69525.60    | 206.95 | 206.90 - 207.10 |             |
| 208  | 169827.91   | 207.95 | 207.90 - 208.10 |             |
| 220  | 0.45        | 219.55 | -               |             |

| Mass | W-50% | W-5%  | W-5% (Required) | W-5% (Flag) |
|------|-------|-------|-----------------|-------------|
| 9    | 0.60  | 0.735 | 0.900           |             |
| 24   | 0.63  | 0.804 | 0.900           |             |
| 25   | 0.61  | 0.733 | 0.900           |             |
| 26   | 0.61  | 0.741 | 0.900           |             |
| 59   | 0.60  | 0.785 | 0.900           |             |
| 113  | 0.52  | 0.728 | 0.900           |             |
| 115  | 0.51  | 0.743 | 0.900           |             |
| 206  | 0.49  | 0.719 | 0.900           |             |
| 207  | 0.50  | 0.728 | 0.900           |             |
| 208  | 0.49  | 0.738 | 0.900           |             |
| 220  | 0.17  | 0.242 |                 |             |

Integration Time [sec] 0.1  
Acquisition Time [sec] 256.770000000002  
Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.82 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  | 1.80 V | Nebulizer Pump | 0.10 rps | Plasma Gas    | 15.0 L/min |
| Sample Depth | 9.0 mm | S/C Temp       | 2 °C     |               |            |

## Lens Parameters

|            |          |               |       |            |        |
|------------|----------|---------------|-------|------------|--------|
| Extract 1  | 0.0 V    | Omega Lens    | 8.0 V | Deflect    | 15.8 V |
| Extract 2  | -135.0 V | Cell Entrance | -30 V | Plate Bias | -35 V  |
| Omega Bias | -65 V    | Cell Exit     | -50 V |            |        |

## Cell Parameters

|         |            |              |        |                       |       |
|---------|------------|--------------|--------|-----------------------|-------|
| Use Gas | No         | 3rd Gas Flow | ---    | Energy Discrimination | 5.0 V |
| He Flow | 0.0 mL/min | OctP Bias    | -8.0 V |                       |       |
| H2 Flow | ---        | OctP RF      | 190 V  |                       |       |

## QP Parameters

|             |     |             |        |         |        |
|-------------|-----|-------------|--------|---------|--------|
| Mass Gain   | 136 | Axis Gain   | 0.9976 | QP Bias | -3.0 V |
| Mass Offset | 130 | Axis Offset | 0.12   |         |        |

## Hardware Settings

### Torch

|         |        |         |        |
|---------|--------|---------|--------|
| Torch H | 0.3 mm | Torch V | 0.4 mm |
|---------|--------|---------|--------|

### EM

|               |        |           |        |          |        |
|---------------|--------|-----------|--------|----------|--------|
| Discriminator | 4.8 mV | Analog HV | 2237 V | Pulse HV | 1013 V |
|---------------|--------|-----------|--------|----------|--------|

[He]

## Sensitivity

| Mass | Conc. [ug/l] | Count | CPS       | Resp (Required) [cps/ug/l] | Resp (Flag) | RSD%  | RSD% (Required) |
|------|--------------|-------|-----------|----------------------------|-------------|-------|-----------------|
| 59   |              | 39033 | 390334.74 |                            |             | 0.598 |                 |
| 89   |              | 44918 | 449184.16 |                            |             | 0.794 |                 |
| 205  |              | 42573 | 425732.60 |                            |             | 0.742 |                 |

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

| Mass | Rep#1 Count | Rep#2 Count | Rep#3 Count | Rep#4 Count | Rep#5 Count |
|------|-------------|-------------|-------------|-------------|-------------|
| 59   | 39443       | 38976       | 38882       | 38976       | 38890       |
| 89   | 45419       | 45138       | 44632       | 44832       | 44571       |
| 205  | 42930       | 42529       | 42083       | 42746       | 42579       |

Integration Time [sec] 0.1

## Tune Parameters

### Plasma Parameters

|              |        |                |            |               |            |
|--------------|--------|----------------|------------|---------------|------------|
| Plasma Mode  | ---    | Nebulizer Gas  | 0.82 L/min | Dilution Gas  | 0.40 L/min |
| RF Power     | 1600 W | Option Gas     | ---        | Auxiliary Gas | 0.90 L/min |
| RF Matching  | 1.80 V | Nebulizer Pump | 0.10 rps   | Plasma Gas    | 15.0 L/min |
| Sample Depth | 9.0 mm | S/C Temp       | 2 °C       |               |            |

## Lens Parameters

|           |       |            |       |         |       |
|-----------|-------|------------|-------|---------|-------|
| Extract 1 | 0.0 V | Omega Lens | 9.1 V | Deflect | 3.6 V |
|-----------|-------|------------|-------|---------|-------|

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|                   |            |               |         |                       |         |
|-------------------|------------|---------------|---------|-----------------------|---------|
| Extract 2         | -155.0 V   | Cell Entrance | -40 V   | Plate Bias            | -60 V   |
| Omega Bias        | -75 V      | Cell Exit     | -60 V   |                       |         |
| Cell Parameters   |            |               |         |                       |         |
| Use Gas           | Yes        | 3rd Gas Flow  | ---     | Energy Discrimination | 5.0 V   |
| He Flow           | 3.9 mL/min | OctP Bias     | -18.0 V |                       |         |
| H2 Flow           | ---        | OctP RF       | 200 V   |                       |         |
| QP Parameters     |            |               |         |                       |         |
| Mass Gain         | 136        | Axis Gain     | 0.9976  | QP Bias               | -13.0 V |
| Mass Offset       | 130        | Axis Offset   | 0.12    |                       |         |
| Hardware Settings |            |               |         |                       |         |
| Torch             |            |               |         |                       |         |
| Torch H           | 0.3 mm     | Torch V       | 0.4 mm  |                       |         |
| EM                |            |               |         |                       |         |
| Discriminator     | 4.8 mV     | Analog HV     | 2237 V  | Pulse HV              | 1013 V  |