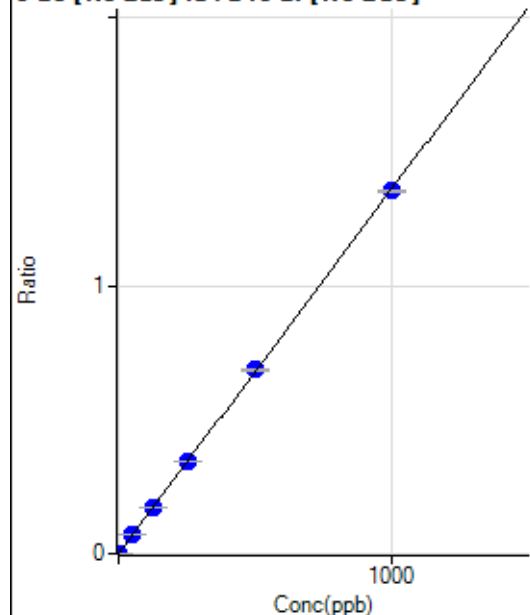


Batch Folder: D:\ICP-MS Data\P7061917.b\  
Analysis File: P7061917.batch.bin  
DA Date-Time: 2017-06-19 12:49:55  
Calibration Title:  
Calibration Method: External Calibration  
VIS Interpolation Fit:

| Level | Standard Data File | Sample Name | Acq. Date-Time      |
|-------|--------------------|-------------|---------------------|
| 1     | 003CALB.d          | S00         | 2017-06-19 11:03:37 |
| 2     |                    |             |                     |
| 3     | 005CALS.d          | S02         | 2017-06-19 11:11:36 |
| 4     | 006CALS.d          | S03         | 2017-06-19 11:15:23 |
| 5     | 007CALS.d          | S04         | 2017-06-19 11:19:22 |
| 6     | 008CALS.d          | S05         | 2017-06-19 11:23:03 |
| 7     | 009CALS.d          | S06         | 2017-06-19 11:26:40 |
| 8     | 010CALS.d          | S07         | 2017-06-19 11:30:14 |
| 9     | 011CALS.d          | S08         | 2017-06-19 11:33:43 |

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



|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD |
|---|--------------------------|----------|------------|------------|--------|------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 168.53     | 0.0001 | P    | 3.7 |
| 2 | <input type="checkbox"/> | 0.100    |            |            |        |      |     |
| 3 | <input type="checkbox"/> | 1.000    | 0.894      | 1709.40    | 0.0013 | P    | 1.3 |
| 4 | <input type="checkbox"/> | 50.000   | 51.454     | 89056.12   | 0.0701 | P    | 1.5 |
| 5 | <input type="checkbox"/> | 125.000  | 128.384    | 220970.48  | 0.1746 | P    | 0.4 |
| 6 | <input type="checkbox"/> | 250.000  | 252.864    | 432604.55  | 0.3438 | P    | 0.7 |
| 7 | <input type="checkbox"/> | 500.000  | 505.854    | 847776.80  | 0.6876 | P    | 1.2 |
| 8 | <input type="checkbox"/> | 1000.000 | 995.861    | 1667475.05 | 1.3536 | P    | 0.7 |
| 9 | <input type="checkbox"/> |          |            | 959.32     | 0.0008 | P    | 8.7 |

$$y = 0.0014 * x + 1.3284E-004$$

$$R = 1.0000$$

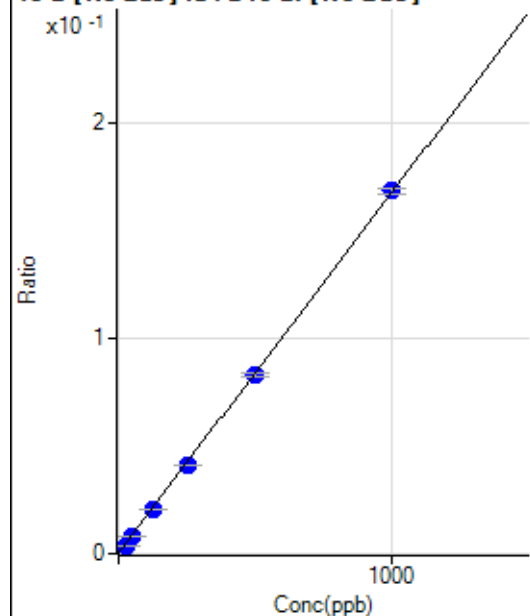
$$DL = 0.01094$$

$$BEC = 0.09774$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS       | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-----------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 433.36    | 0.0003 | P    | 19.2 |
| 2 | <input type="checkbox"/> | 2.500    |            |           |        |      |      |
| 3 | <input type="checkbox"/> | 25.000   | 20.223     | 4712.04   | 0.0037 | P    | 3.8  |
| 4 | <input type="checkbox"/> | 50.000   | 48.064     | 10629.16  | 0.0084 | P    | 2.1  |
| 5 | <input type="checkbox"/> | 125.000  | 121.088    | 26003.79  | 0.0205 | P    | 1.5  |
| 6 | <input type="checkbox"/> | 250.000  | 242.460    | 51343.37  | 0.0408 | P    | 0.8  |
| 7 | <input type="checkbox"/> | 500.000  | 493.794    | 102014.48 | 0.0827 | P    | 2.5  |
| 8 | <input type="checkbox"/> | 1000.000 | 1005.693   | 207160.70 | 0.1682 | P    | 1.9  |
| 9 | <input type="checkbox"/> |          |            | 11666.09  | 0.0097 | P    | 8.8  |

$$y = 1.6688E-004 * x + 3.4159E-004$$

$$R = 0.9999$$

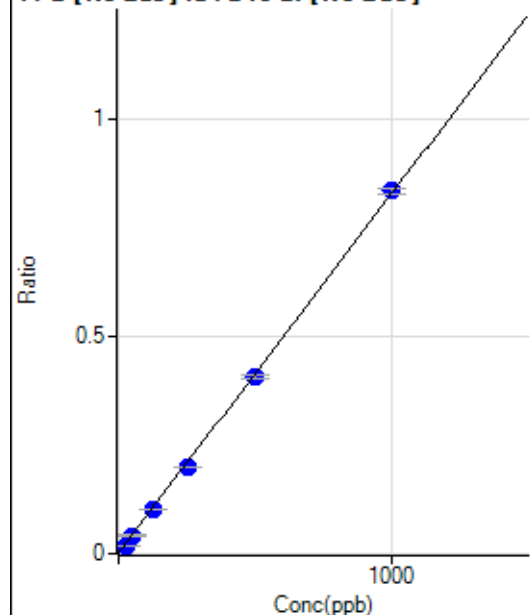
$$DL = 1.178$$

$$BEC = 2.047$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 1955.76    | 0.0015 | P   | 8.5 |
| 2 | <input type="checkbox"/> | 2.500    |            |            |        |     |     |
| 3 | <input type="checkbox"/> | 25.000   | 20.800     | 23769.39   | 0.0187 | P   | 1.9 |
| 4 | <input type="checkbox"/> | 50.000   | 48.536     | 52985.22   | 0.0417 | P   | 2.6 |
| 5 | <input type="checkbox"/> | 125.000  | 120.369    | 127945.73  | 0.1011 | P   | 1.1 |
| 6 | <input type="checkbox"/> | 250.000  | 240.115    | 251853.67  | 0.2002 | P   | 1.0 |
| 7 | <input type="checkbox"/> | 500.000  | 489.663    | 501224.84  | 0.4066 | P   | 2.4 |
| 8 | <input type="checkbox"/> | 1000.000 | 1008.397   | 1029375.13 | 0.8356 | P   | 1.3 |
| 9 | <input type="checkbox"/> |          |            | 58227.90   | 0.0486 | P   | 7.0 |

$$y = 8.2715E-004 * x + 0.0015$$

$$R = 0.9999$$

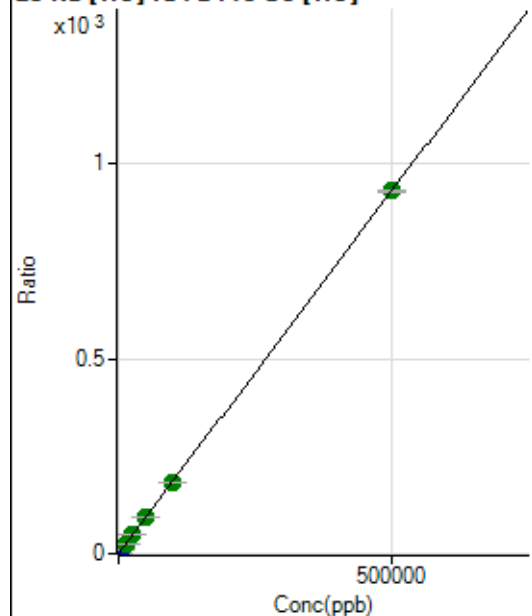
$$DL = 0.477$$

$$BEC = 1.864$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio    | Det | RSD |
|---|--------------------------|-----------|------------|-------------|----------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 16871.15    | 0.0751   | P   | 2.0 |
| 2 | <input type="checkbox"/> | 50.000    |            |             |          |     |     |
| 3 | <input type="checkbox"/> | 500.000   | 451.548    | 201834.53   | 0.9137   | P   | 0.6 |
| 4 | <input type="checkbox"/> | 5000.000  | 5076.565   | 2134048.57  | 9.5033   | P   | 0.4 |
| 5 | <input type="checkbox"/> | 12500.000 | 12682.857  | 5203324.55  | 23.6298  | A   | 1.6 |
| 6 | <input type="checkbox"/> | 25000.000 | 25506.201  | 10201084.52 | 47.4454  | A   | 1.0 |
| 7 | <input type="checkbox"/> | 50000.000 | 50214.278  | 20739076.16 | 93.3333  | A   | 2.3 |
| 8 | <input type="checkbox"/> | 100000.00 | 97620.489  | 40861959.94 | 181.3764 | A   | 1.0 |
| 9 | <input type="checkbox"/> | 500000.00 | 500423.87  | 224039941.1 | 929.4649 | A   | 0.8 |

$$y = 0.0019 * x + 0.0751$$

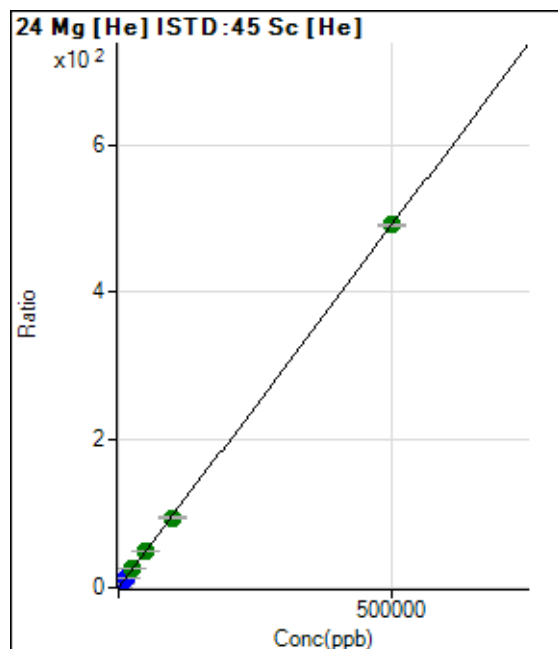
$$R = 1.0000$$

$$DL = 2.418$$

$$BEC = 40.44$$

Weight: &lt;None&gt;

Min Conc: 0



|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio    | Det | RSD |
|---|--------------------------|-----------|------------|-------------|----------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 986.18      | 0.0044   | P   | 6.1 |
| 2 | <input type="checkbox"/> | 50.000    |            |             |          |     |     |
| 3 | <input type="checkbox"/> | 500.000   | 447.828    | 98031.03    | 0.4438   | P   | 1.7 |
| 4 | <input type="checkbox"/> | 5000.000  | 5082.955   | 1120937.64  | 4.9918   | P   | 0.7 |
| 5 | <input type="checkbox"/> | 12500.000 | 12754.066  | 2756740.40  | 12.5187  | P   | 1.2 |
| 6 | <input type="checkbox"/> | 25000.000 | 25441.478  | 5368183.97  | 24.9675  | A   | 1.4 |
| 7 | <input type="checkbox"/> | 50000.000 | 50087.142  | 10922200.42 | 49.1498  | A   | 1.8 |
| 8 | <input type="checkbox"/> | 100000.00 | 96767.739  | 21391681.55 | 94.9528  | A   | 0.9 |
| 9 | <input type="checkbox"/> | 500000.00 | 500608.53  | 118400987.3 | 491.2008 | A   | 0.4 |

$$y = 9.8120\text{E-}004 * x + 0.0044$$

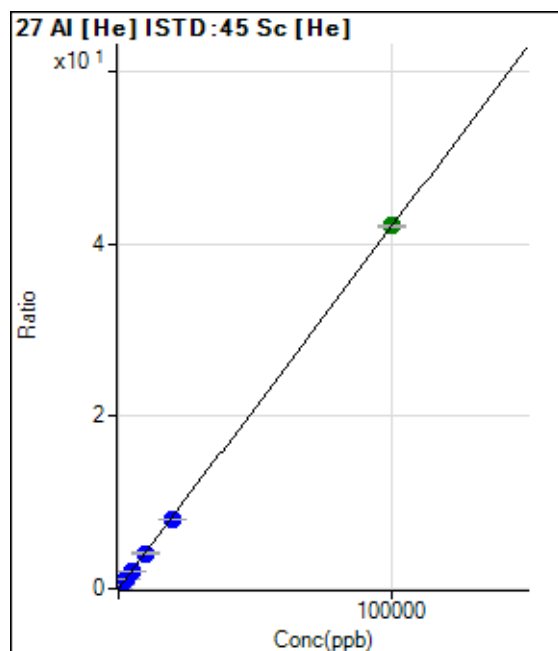
$$R = 1.0000$$

$$DL = 0.8241$$

$$BEC = 4.473$$

Weight: <None>

Min Conc: 0



|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio   | Det | RSD  |
|---|--------------------------|-----------|------------|-------------|---------|-----|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 36.11       | 0.0002  | P   | 81.4 |
| 2 | <input type="checkbox"/> | 2.000     |            |             |         |     |      |
| 3 | <input type="checkbox"/> | 20.000    | 17.686     | 1675.17     | 0.0076  | P   | 6.7  |
| 4 | <input type="checkbox"/> | 1000.000  | 983.654    | 92750.75    | 0.4130  | P   | 0.4  |
| 5 | <input type="checkbox"/> | 2500.000  | 2448.579   | 226371.90   | 1.0279  | P   | 0.6  |
| 6 | <input type="checkbox"/> | 5000.000  | 4935.505   | 445450.78   | 2.0718  | P   | 0.9  |
| 7 | <input type="checkbox"/> | 10000.000 | 9746.697   | 909137.97   | 4.0912  | P   | 1.8  |
| 8 | <input type="checkbox"/> | 20000.000 | 19089.296  | 1805138.87  | 8.0126  | P   | 1.0  |
| 9 | <input type="checkbox"/> | 100000.00 | 100212.14  | 10138860.64 | 42.0629 | A   | 0.5  |

$$y = 4.1974\text{E-}004 * x + 1.6079\text{E-}004$$

$$R = 1.0000$$

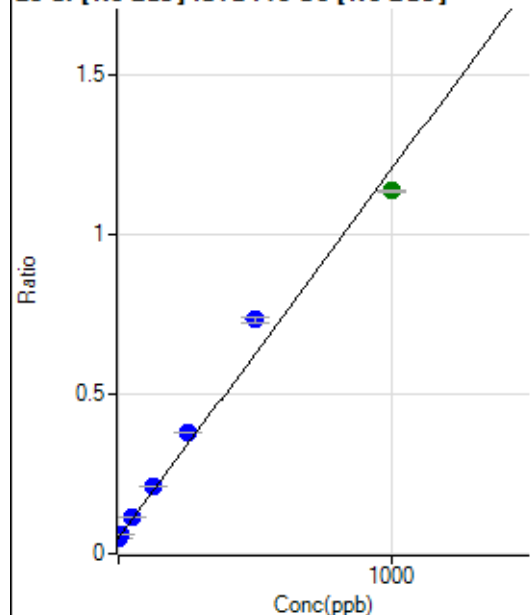
$$DL = 0.9357$$

$$BEC = 0.3831$$

Weight: <None>

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD |
|---|--------------------------|----------|------------|------------|--------|------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 258640.19  | 0.0491 | P    | 0.2 |
| 2 | <input type="checkbox"/> | 1.000    |            |            |        |      |     |
| 3 | <input type="checkbox"/> | 10.000   | 9.291      | 308896.57  | 0.0599 | P    | 0.8 |
| 4 | <input type="checkbox"/> | 50.000   | 56.085     | 594330.59  | 0.1139 | P    | 0.3 |
| 5 | <input type="checkbox"/> | 125.000  | 141.523    | 1114707.14 | 0.2126 | P    | 0.9 |
| 6 | <input type="checkbox"/> | 250.000  | 287.597    | 1958912.85 | 0.3814 | P    | 0.4 |
| 7 | <input type="checkbox"/> | 500.000  | 592.938    | 3683838.80 | 0.7341 | P    | 2.4 |
| 8 | <input type="checkbox"/> | 1000.000 | 941.769    | 5901068.02 | 1.1371 | A    | 0.7 |
| 9 | <input type="checkbox"/> |          |            | 493166.55  | 0.0908 | P    | 0.8 |

$$y = 0.0012 * x + 0.0491$$

$$R = 0.9923$$

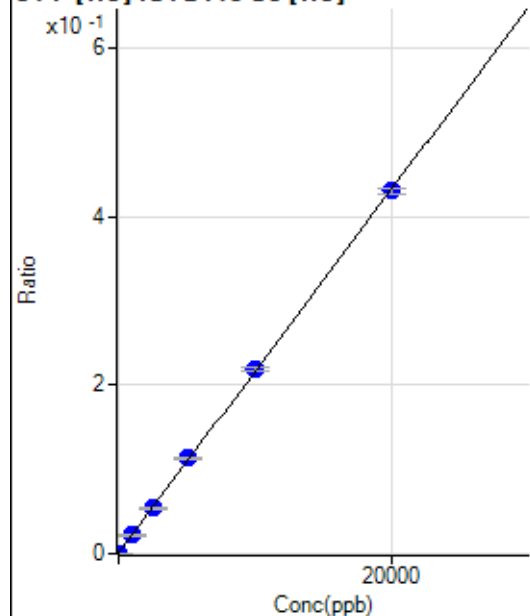
$$DL = 0.2227$$

$$BEC = 42.52$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS      | Ratio  | Det. | RSD  |
|---|--------------------------|-----------|------------|----------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000     | -3.499     | 152.79   | 0.0007 | P    | 34.7 |
| 2 | <input type="checkbox"/> | 0.000     |            |          |        |      |      |
| 3 | <input type="checkbox"/> | 0.000     | 3.499      | 183.34   | 0.0008 | P    | 33.2 |
| 4 | <input type="checkbox"/> | 1000.000  | 985.933    | 4953.82  | 0.0221 | P    | 7.1  |
| 5 | <input type="checkbox"/> | 2500.000  | 2479.062   | 11960.82 | 0.0543 | P    | 2.6  |
| 6 | <input type="checkbox"/> | 5000.000  | 5217.304   | 24401.25 | 0.1135 | P    | 1.0  |
| 7 | <input type="checkbox"/> | 10000.000 | 10077.085  | 48552.27 | 0.2185 | P    | 2.4  |
| 8 | <input type="checkbox"/> | 20000.000 | 19910.452  | 97090.94 | 0.4310 | P    | 1.8  |
| 9 | <input type="checkbox"/> |           |            | 238.90   | 0.0010 | P    | 13.1 |

$$y = 2.1608E-005 * x + 7.5503E-004$$

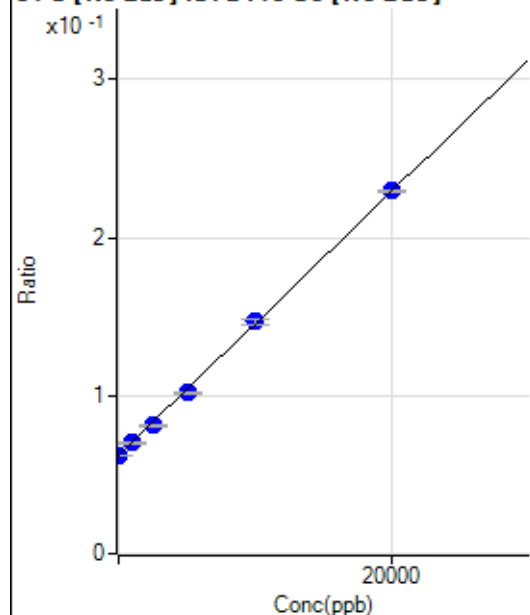
$$R = 0.9999$$

$$DL = 35.48$$

$$BEC = 34.94$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>ct</sub>          | Conc.     | Calc Conc. | CPS        | Ratio  | Det. | RSD |
|---|--------------------------|-----------|------------|------------|--------|------|-----|
| 1 | <input type="checkbox"/> | 0.000     | -35.008    | 325885.14  | 0.0619 | P    | 1.2 |
| 2 | <input type="checkbox"/> | 0.000     |            |            |        |      |     |
| 3 | <input type="checkbox"/> | 0.000     | 35.008     | 322443.94  | 0.0625 | P    | 0.1 |
| 4 | <input type="checkbox"/> | 1000.000  | 939.533    | 365336.67  | 0.0700 | P    | 0.6 |
| 5 | <input type="checkbox"/> | 2500.000  | 2250.499   | 424440.21  | 0.0810 | P    | 1.6 |
| 6 | <input type="checkbox"/> | 5000.000  | 4720.136   | 521679.05  | 0.1016 | P    | 1.6 |
| 7 | <input type="checkbox"/> | 10000.000 | 10126.974  | 736067.65  | 0.1467 | P    | 2.0 |
| 8 | <input type="checkbox"/> | 20000.000 | 20040.690  | 1190448.39 | 0.2294 | P    | 0.8 |
| 9 | <input type="checkbox"/> |           |            | 316895.96  | 0.0583 | P    | 1.0 |

$$y = 8.3438\text{E-}006 * x + 0.0622$$

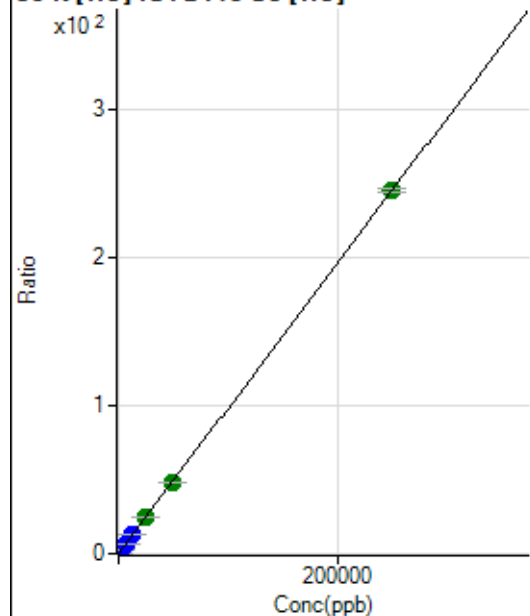
$$R = 0.9998$$

$$DL = 144.9$$

$$BEC = 7453$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>ct</sub>          | Conc.     | Calc Conc. | CPS         | Ratio    | Det. | RSD |
|---|--------------------------|-----------|------------|-------------|----------|------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 27111.90    | 0.1207   | P    | 1.9 |
| 2 | <input type="checkbox"/> | 50.000    |            |             |          |      |     |
| 3 | <input type="checkbox"/> | 500.000   | 434.116    | 120589.79   | 0.5459   | P    | 1.3 |
| 4 | <input type="checkbox"/> | 2500.000  | 2466.471   | 569618.71   | 2.5366   | P    | 0.2 |
| 5 | <input type="checkbox"/> | 6250.000  | 6181.541   | 1359938.68  | 6.1755   | P    | 1.1 |
| 6 | <input type="checkbox"/> | 12500.000 | 12572.896  | 2673932.37  | 12.4359  | P    | 0.9 |
| 7 | <input type="checkbox"/> | 25000.000 | 24828.159  | 5430584.89  | 24.4400  | A    | 2.4 |
| 8 | <input type="checkbox"/> | 50000.000 | 48685.024  | 10770532.36 | 47.8079  | A    | 0.9 |
| 9 | <input type="checkbox"/> | 250000.00 | 250278.71  | 59118291.60 | 245.2699 | A    | 0.9 |

$$y = 9.7950\text{E-}004 * x + 0.1207$$

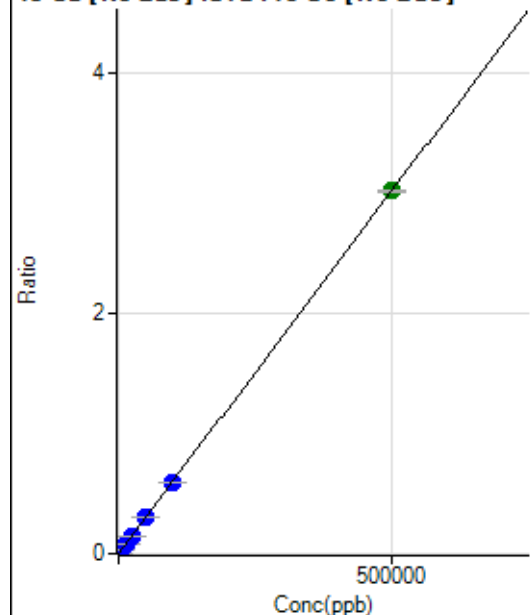
$$R = 1.0000$$

$$DL = 7.124$$

$$BEC = 123.2$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|-----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 255.57      | 0.0000 | P    | 21.4 |
| 2 | <input type="checkbox"/> | 50.000    |            |             |        |      |      |
| 3 | <input type="checkbox"/> | 500.000   | 428.934    | 13592.90    | 0.0026 | P    | 3.1  |
| 4 | <input type="checkbox"/> | 5000.000  | 4970.500   | 156540.46   | 0.0300 | P    | 0.7  |
| 5 | <input type="checkbox"/> | 12500.000 | 12292.141  | 388604.60   | 0.0741 | P    | 1.6  |
| 6 | <input type="checkbox"/> | 25000.000 | 24562.635  | 760571.60   | 0.1481 | P    | 1.0  |
| 7 | <input type="checkbox"/> | 50000.000 | 49932.749  | 1510141.34  | 0.3010 | P    | 2.7  |
| 8 | <input type="checkbox"/> | 100000.00 | 97563.499  | 3051504.86  | 0.5880 | P    | 0.4  |
| 9 | <input type="checkbox"/> | 500000.00 | 500521.45  | 16391481.79 | 3.0164 | A    | 0.5  |

$$y = 6.0265\text{E-}006 * x + 4.8508\text{E-}005$$

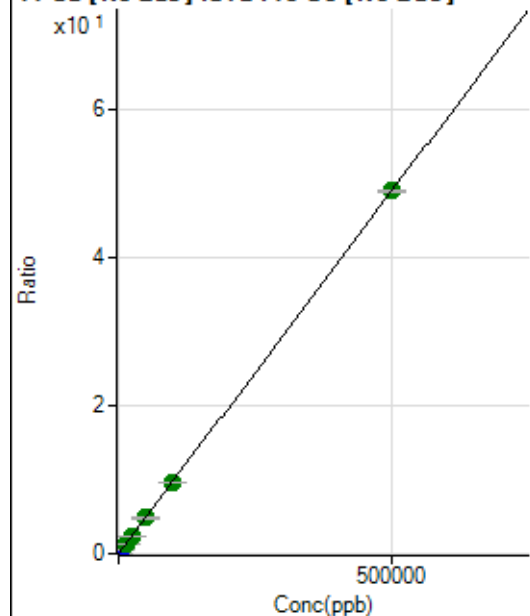
$$R = 1.0000$$

$$DL = 5.162$$

$$BEC = 8.049$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio   | Det. | RSD |
|---|--------------------------|-----------|------------|-------------|---------|------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 10462.56    | 0.0020  | P    | 6.7 |
| 2 | <input type="checkbox"/> | 50.000    |            |             |         |      |     |
| 3 | <input type="checkbox"/> | 500.000   | 436.847    | 230913.37   | 0.0447  | P    | 0.3 |
| 4 | <input type="checkbox"/> | 5000.000  | 4983.077   | 2554828.55  | 0.4897  | P    | 0.5 |
| 5 | <input type="checkbox"/> | 12500.000 | 12271.799  | 6306949.79  | 1.2030  | A    | 1.1 |
| 6 | <input type="checkbox"/> | 25000.000 | 24514.831  | 12333500.36 | 2.4012  | A    | 1.0 |
| 7 | <input type="checkbox"/> | 50000.000 | 49648.986  | 24390538.22 | 4.8610  | A    | 2.8 |
| 8 | <input type="checkbox"/> | 100000.00 | 97276.606  | 49416348.32 | 9.5222  | A    | 0.5 |
| 9 | <input type="checkbox"/> | 500000.00 | 500609.97  | 266244292.0 | 48.9956 | A    | 0.3 |

$$y = 9.7868\text{E-}005 * x + 0.0020$$

$$R = 1.0000$$

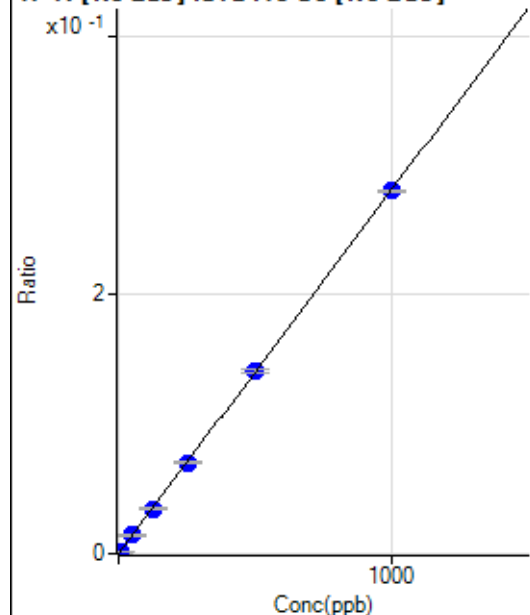
$$DL = 4.079$$

$$BEC = 20.31$$

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      | 202.79     | 0.0000 | P   | 26.5 |
| 2 | <input type="checkbox"/> | 0.500    |            |            |        |     |      |
| 3 | <input type="checkbox"/> | 5.000    | 4.451      | 6649.01    | 0.0013 | P   | 2.2  |
| 4 | <input type="checkbox"/> | 50.000   | 50.207     | 73748.71   | 0.0141 | P   | 0.6  |
| 5 | <input type="checkbox"/> | 125.000  | 123.921    | 182618.60  | 0.0348 | P   | 0.8  |
| 6 | <input type="checkbox"/> | 250.000  | 251.039    | 362237.09  | 0.0705 | P   | 1.5  |
| 7 | <input type="checkbox"/> | 500.000  | 504.495    | 711026.36  | 0.1417 | P   | 2.0  |
| 8 | <input type="checkbox"/> | 1000.000 | 997.620    | 1453821.57 | 0.2801 | P   | 0.9  |
| 9 | <input type="checkbox"/> |          |            | 2656.23    | 0.0005 | P   | 12.4 |

$$y = 2.8077\text{E-}004 * x + 3.8493\text{E-}005$$

$$R = 1.0000$$

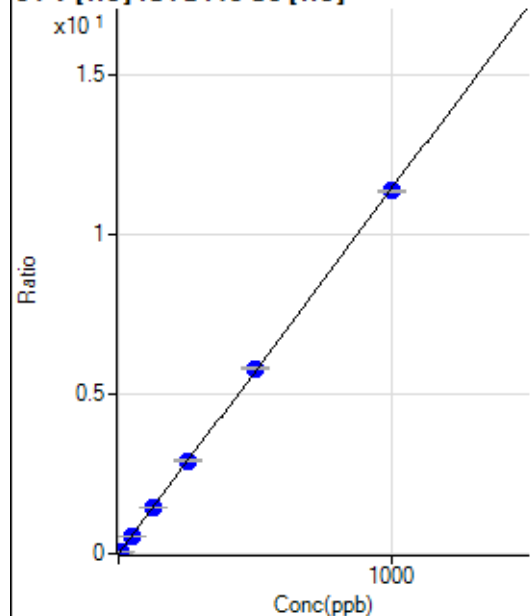
$$DL = 0.1091$$

$$BEC = 0.1371$$

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      | 12.22      | 0.0001  | P   | 82.7 |
| 2 | <input type="checkbox"/> | 0.500    |            |            |         |     |      |
| 3 | <input type="checkbox"/> | 5.000    | 4.469      | 11313.41   | 0.0512  | P   | 1.5  |
| 4 | <input type="checkbox"/> | 50.000   | 49.854     | 128190.67  | 0.5709  | P   | 0.2  |
| 5 | <input type="checkbox"/> | 125.000  | 126.356    | 318592.40  | 1.4468  | P   | 1.2  |
| 6 | <input type="checkbox"/> | 250.000  | 255.240    | 628363.59  | 2.9224  | P   | 1.1  |
| 7 | <input type="checkbox"/> | 500.000  | 508.361    | 1293441.81 | 5.8205  | P   | 1.7  |
| 8 | <input type="checkbox"/> | 1000.000 | 994.350    | 2564917.19 | 11.3848 | P   | 0.4  |
| 9 | <input type="checkbox"/> |          |            | 1512.33    | 0.0063  | P   | 6.4  |

$$y = 0.0114 * x + 5.4191\text{E-}005$$

$$R = 0.9999$$

$$DL = 0.01174$$

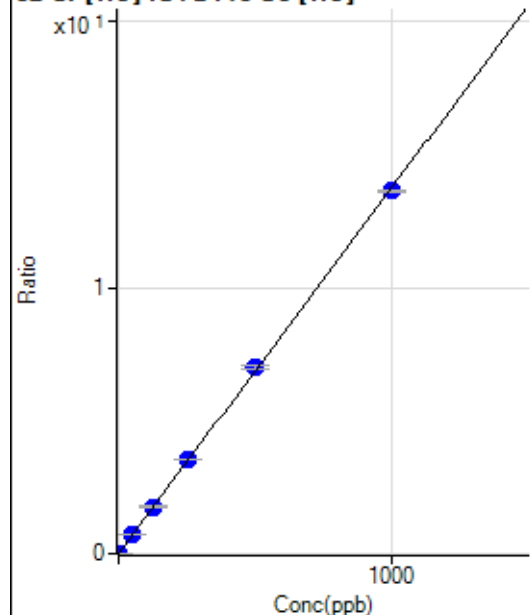
$$BEC = 0.004733$$

Weight: &lt;None&gt;

Min Conc: 0



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



|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS        | Ratio   | Det. | RSD  |
|---|--------------------------|----------|------------|------------|---------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 616.69     | 0.0027  | P    | 10.6 |
| 2 | <input type="checkbox"/> | 0.200    |            |            |         |      |      |
| 3 | <input type="checkbox"/> | 2.000    | 1.940      | 6487.08    | 0.0294  | P    | 1.5  |
| 4 | <input type="checkbox"/> | 50.000   | 51.025     | 157886.81  | 0.7031  | P    | 1.0  |
| 5 | <input type="checkbox"/> | 125.000  | 128.451    | 388825.26  | 1.7658  | P    | 2.0  |
| 6 | <input type="checkbox"/> | 250.000  | 258.193    | 762580.62  | 3.5466  | P    | 0.7  |
| 7 | <input type="checkbox"/> | 500.000  | 510.297    | 1557062.91 | 7.0070  | P    | 1.9  |
| 8 | <input type="checkbox"/> | 1000.000 | 992.321    | 3069161.31 | 13.6231 | P    | 0.9  |
| 9 | <input type="checkbox"/> |          |            | 78671.91   | 0.3264  | P    | 0.9  |

$$y = 0.0137 * x + 0.0027$$

$$R = 0.9999$$

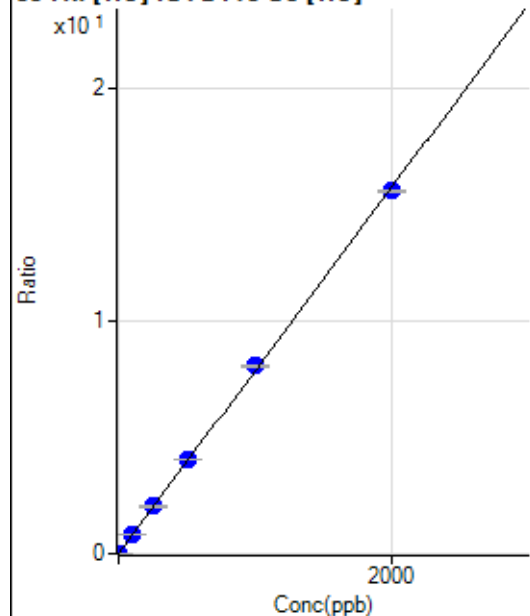
$$DL = 0.06391$$

$$BEC = 0.2001$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS        | Ratio   | Det. | RSD |
|---|--------------------------|----------|------------|------------|---------|------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 664.47     | 0.0030  | P    | 4.8 |
| 2 | <input type="checkbox"/> | 0.100    |            |            |         |      |     |
| 3 | <input type="checkbox"/> | 1.000    | 0.826      | 2085.74    | 0.0094  | P    | 4.0 |
| 4 | <input type="checkbox"/> | 100.000  | 102.019    | 180633.40  | 0.8044  | P    | 0.4 |
| 5 | <input type="checkbox"/> | 250.000  | 257.116    | 445433.88  | 2.0228  | P    | 1.4 |
| 6 | <input type="checkbox"/> | 500.000  | 516.979    | 873880.30  | 4.0642  | P    | 0.8 |
| 7 | <input type="checkbox"/> | 1000.000 | 1025.096   | 1790269.16 | 8.0559  | P    | 1.4 |
| 8 | <input type="checkbox"/> | 2000.000 | 1982.217   | 3508895.30 | 15.5748 | P    | 0.5 |
| 9 | <input type="checkbox"/> |          |            | 15419.39   | 0.0640  | P    | 2.1 |

$$y = 0.0079 * x + 0.0030$$

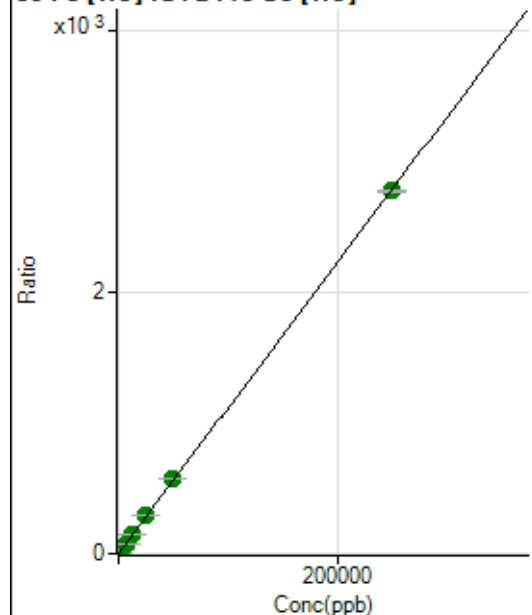
$$R = 0.9998$$

$$DL = 0.0537$$

$$BEC = 0.3765$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio     | Det | RSD |
|---|--------------------------|-----------|------------|-------------|-----------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 6101.43     | 0.0272    | P   | 1.3 |
| 2 | <input type="checkbox"/> | 5.000     |            |             |           |     |     |
| 3 | <input type="checkbox"/> | 50.000    | 47.009     | 121535.51   | 0.5502    | P   | 0.4 |
| 4 | <input type="checkbox"/> | 2500.000  | 2633.257   | 6585400.84  | 29.3261   | A   | 0.5 |
| 5 | <input type="checkbox"/> | 6250.000  | 6628.870   | 16247191.45 | 73.7833   | A   | 1.6 |
| 6 | <input type="checkbox"/> | 12500.000 | 13428.273  | 32131254.89 | 149.4370  | A   | 1.1 |
| 7 | <input type="checkbox"/> | 25000.000 | 26355.096  | 65176530.62 | 293.2674  | A   | 1.0 |
| 8 | <input type="checkbox"/> | 50000.000 | 51048.857  | 127971115.8 | 568.0227  | A   | 0.4 |
| 9 | <input type="checkbox"/> | 250000.00 | 249597.50  | 669405074.2 | 2,777.175 | A   | 0.6 |

$$y = 0.0111 * x + 0.0272$$

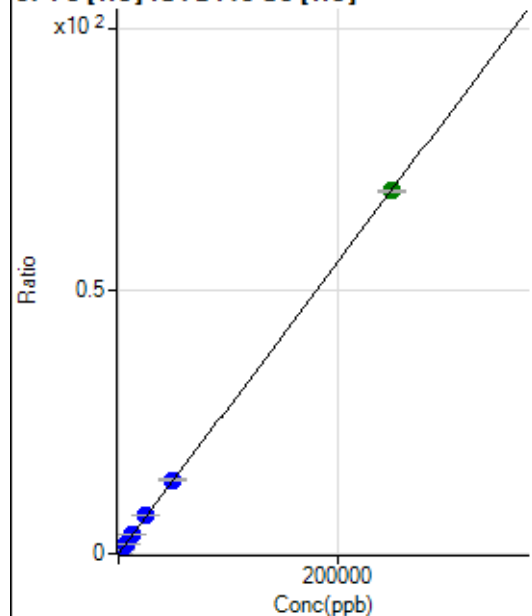
$$R = 1.0000$$

$$DL = 0.09244$$

$$BEC = 2.441$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio   | Det | RSD  |
|---|--------------------------|-----------|------------|-------------|---------|-----|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 166.67      | 0.0007  | P   | 12.5 |
| 2 | <input type="checkbox"/> | 5.000     |            |             |         |     |      |
| 3 | <input type="checkbox"/> | 50.000    | 50.856     | 3270.82     | 0.0148  | P   | 5.0  |
| 4 | <input type="checkbox"/> | 2500.000  | 2633.609   | 163711.88   | 0.7290  | P   | 0.7  |
| 5 | <input type="checkbox"/> | 6250.000  | 6639.461   | 404469.08   | 1.8368  | P   | 1.9  |
| 6 | <input type="checkbox"/> | 12500.000 | 13355.489  | 794272.66   | 3.6941  | P   | 1.2  |
| 7 | <input type="checkbox"/> | 25000.000 | 26366.892  | 1620518.11  | 7.2922  | P   | 1.6  |
| 8 | <input type="checkbox"/> | 50000.000 | 50921.464  | 3172644.86  | 14.0825 | P   | 0.7  |
| 9 | <input type="checkbox"/> | 250000.00 | 249625.17  | 16639137.29 | 69.0318 | A   | 0.8  |

$$y = 2.7654E-004 * x + 7.4226E-004$$

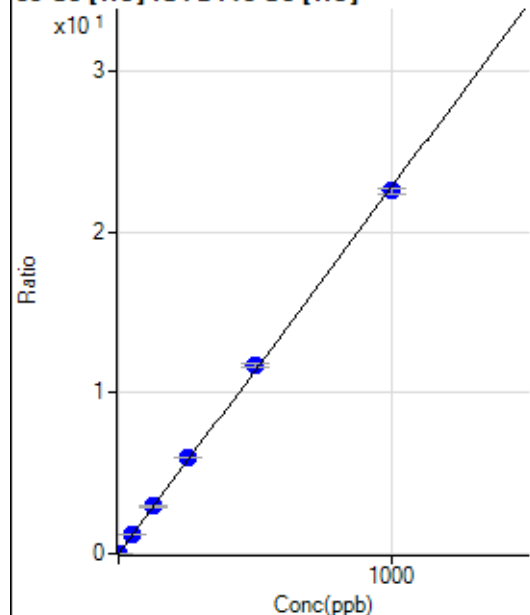
$$R = 1.0000$$

$$DL = 1.011$$

$$BEC = 2.684$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS        | Ratio   | Det. | RSD |
|---|--------------------------|----------|------------|------------|---------|------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 130.00     | 0.0006  | P    | 7.1 |
| 2 | <input type="checkbox"/> | 0.100    |            |            |         |      |     |
| 3 | <input type="checkbox"/> | 1.000    | 0.950      | 4914.23    | 0.0222  | P    | 3.3 |
| 4 | <input type="checkbox"/> | 50.000   | 51.808     | 265407.46  | 1.1819  | P    | 0.7 |
| 5 | <input type="checkbox"/> | 125.000  | 129.528    | 650479.42  | 2.9541  | P    | 1.7 |
| 6 | <input type="checkbox"/> | 250.000  | 260.526    | 1277409.68 | 5.9411  | P    | 0.6 |
| 7 | <input type="checkbox"/> | 500.000  | 513.853    | 2603802.76 | 11.7174 | P    | 1.9 |
| 8 | <input type="checkbox"/> | 1000.000 | 989.786    | 5084566.62 | 22.5696 | P    | 1.3 |
| 9 | <input type="checkbox"/> |          |            | 9122.97    | 0.0378  | P    | 2.4 |

$$y = 0.0228 * x + 5.7852E-004$$

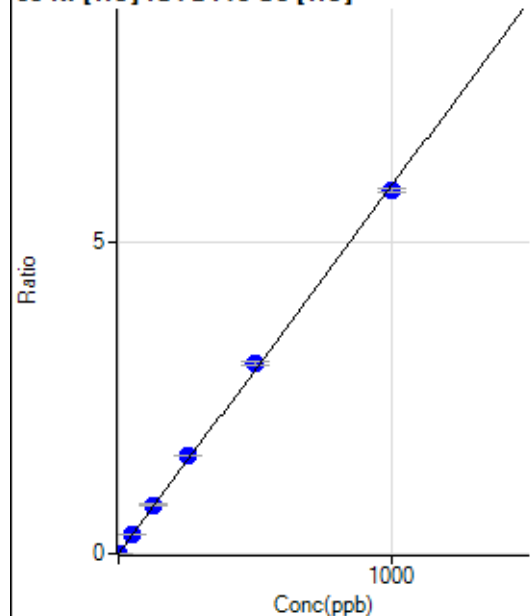
$$R = 0.9998$$

$$DL = 0.005371$$

$$BEC = 0.02537$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD |
|---|--------------------------|----------|------------|------------|--------|------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 410.01     | 0.0018 | P    | 9.5 |
| 2 | <input type="checkbox"/> | 0.100    |            |            |        |      |     |
| 3 | <input type="checkbox"/> | 1.000    | 1.040      | 1759.02    | 0.0080 | P    | 6.0 |
| 4 | <input type="checkbox"/> | 50.000   | 52.917     | 70505.20   | 0.3140 | P    | 1.1 |
| 5 | <input type="checkbox"/> | 125.000  | 132.146    | 172053.10  | 0.7813 | P    | 1.5 |
| 6 | <input type="checkbox"/> | 250.000  | 264.985    | 336484.71  | 1.5649 | P    | 0.5 |
| 7 | <input type="checkbox"/> | 500.000  | 517.124    | 678296.97  | 3.0523 | P    | 1.6 |
| 8 | <input type="checkbox"/> | 1000.000 | 986.653    | 1311604.49 | 5.8220 | P    | 1.0 |
| 9 | <input type="checkbox"/> |          |            | 20250.87   | 0.0840 | P    | 0.8 |

$$y = 0.0059 * x + 0.0018$$

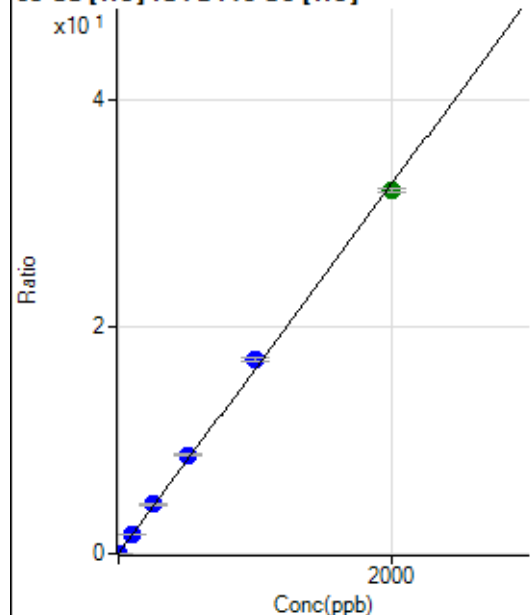
$$R = 0.9996$$

$$DL = 0.08842$$

$$BEC = 0.3093$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio   | Det. | RSD |
|---|--------------------------|----------|------------|------------|---------|------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 1899.04    | 0.0085  | P    | 4.6 |
| 2 | <input type="checkbox"/> | 0.200    |            |            |         |      |     |
| 3 | <input type="checkbox"/> | 2.000    | 2.110      | 9457.62    | 0.0428  | P    | 3.0 |
| 4 | <input type="checkbox"/> | 100.000  | 106.325    | 390821.61  | 1.7404  | P    | 0.2 |
| 5 | <input type="checkbox"/> | 250.000  | 266.936    | 959288.28  | 4.3566  | P    | 2.0 |
| 6 | <input type="checkbox"/> | 500.000  | 533.757    | 1871221.62 | 8.7029  | P    | 0.9 |
| 7 | <input type="checkbox"/> | 1000.000 | 1049.606   | 3801160.08 | 17.1056 | P    | 1.9 |
| 8 | <input type="checkbox"/> | 2000.000 | 1964.325   | 7210393.57 | 32.0056 | A    | 1.1 |
| 9 | <input type="checkbox"/> |          |            | 16630.74   | 0.0690  | P    | 1.4 |

$$y = 0.0163 * x + 0.0085$$

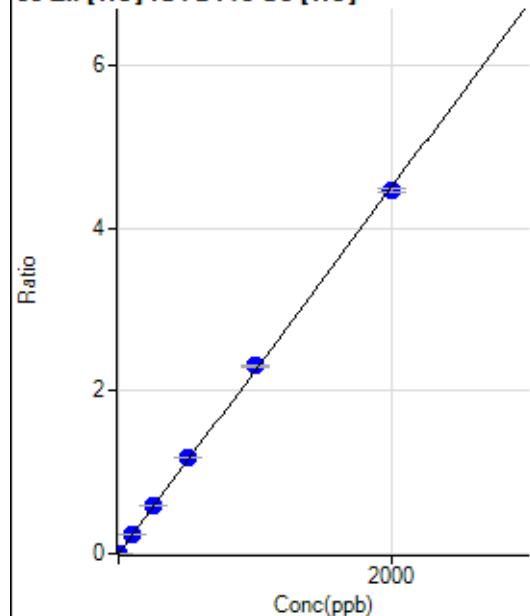
$$R = 0.9994$$

$$DL = 0.07237$$

$$BEC = 0.519$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD |
|---|--------------------------|----------|------------|------------|--------|------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 281.12     | 0.0013 | P    | 6.6 |
| 2 | <input type="checkbox"/> | 0.200    |            |            |        |      |     |
| 3 | <input type="checkbox"/> | 2.000    | 2.034      | 1286.75    | 0.0058 | P    | 1.5 |
| 4 | <input type="checkbox"/> | 100.000  | 106.571    | 54102.14   | 0.2409 | P    | 1.8 |
| 5 | <input type="checkbox"/> | 250.000  | 261.941    | 130005.74  | 0.5904 | P    | 1.2 |
| 6 | <input type="checkbox"/> | 500.000  | 525.029    | 254166.88  | 1.1820 | P    | 0.3 |
| 7 | <input type="checkbox"/> | 1000.000 | 1023.981   | 512030.71  | 2.3042 | P    | 1.8 |
| 8 | <input type="checkbox"/> | 2000.000 | 1979.931   | 1003455.14 | 4.4541 | P    | 0.9 |
| 9 | <input type="checkbox"/> |          |            | 6126.94    | 0.0254 | P    | 2.7 |

$$y = 0.0022 * x + 0.0013$$

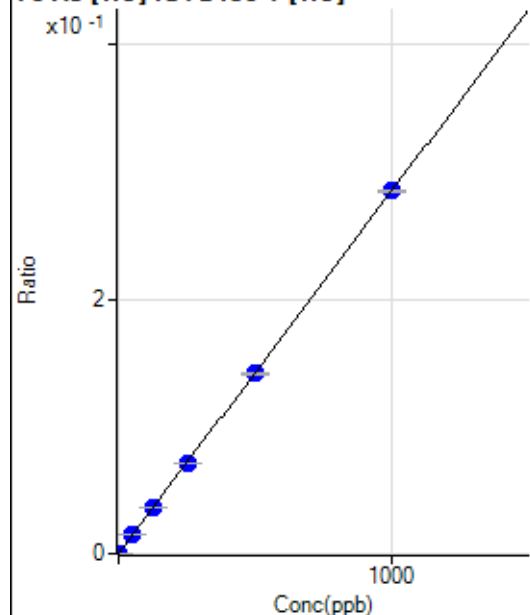
$$R = 0.9998$$

$$DL = 0.1107$$

$$BEC = 0.5564$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS       | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-----------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 19.75     | 0.0000 | P    | 29.3 |
| 2 | <input type="checkbox"/> | 0.100    |            |           |        |      |      |
| 3 | <input type="checkbox"/> | 1.000    | 0.841      | 326.55    | 0.0003 | P    | 11.5 |
| 4 | <input type="checkbox"/> | 50.000   | 50.822     | 18700.97  | 0.0145 | P    | 0.6  |
| 5 | <input type="checkbox"/> | 125.000  | 125.594    | 45727.08  | 0.0358 | P    | 0.4  |
| 6 | <input type="checkbox"/> | 250.000  | 251.181    | 90241.03  | 0.0716 | P    | 0.4  |
| 7 | <input type="checkbox"/> | 500.000  | 497.223    | 184693.48 | 0.1416 | P    | 0.7  |
| 8 | <input type="checkbox"/> | 1000.000 | 1000.978   | 363581.63 | 0.2851 | P    | 0.3  |
| 9 | <input type="checkbox"/> |          |            | 300.63    | 0.0002 | P    | 5.6  |

$$y = 2.8482\text{E-}004 * x + 1.5160\text{E-}005$$

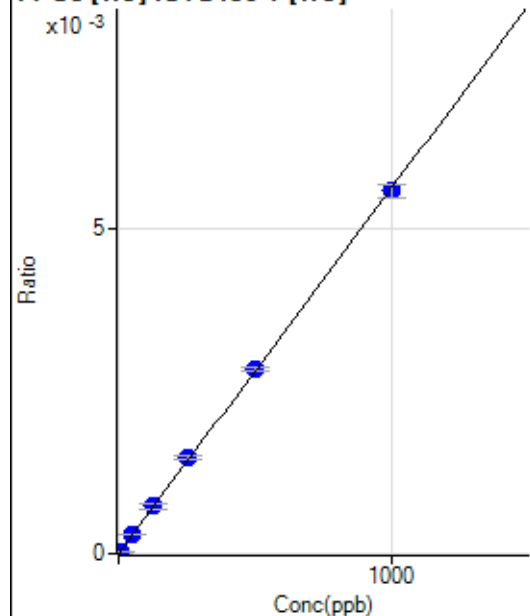
$$R = 1.0000$$

$$DL = 0.04676$$

$$BEC = 0.05323$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS     | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|---------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 3.33    | 0.0000 | P    | 0.6  |
| 2 | <input type="checkbox"/> | 0.500    |            |         |        |      |      |
| 3 | <input type="checkbox"/> | 5.000    | 5.101      | 40.00   | 0.0000 | P    | 24.7 |
| 4 | <input type="checkbox"/> | 50.000   | 52.905     | 386.68  | 0.0003 | P    | 6.1  |
| 5 | <input type="checkbox"/> | 125.000  | 129.316    | 931.16  | 0.0007 | P    | 10.4 |
| 6 | <input type="checkbox"/> | 250.000  | 263.118    | 1866.82 | 0.0015 | P    | 4.1  |
| 7 | <input type="checkbox"/> | 500.000  | 506.938    | 3716.10 | 0.0028 | P    | 2.2  |
| 8 | <input type="checkbox"/> | 1000.000 | 992.566    | 7109.63 | 0.0056 | P    | 3.8  |
| 9 | <input type="checkbox"/> |          |            | 11.11   | 0.0000 | P    | 45.3 |

$$y = 5.6151\text{E-}006 * x + 2.5528\text{E-}006$$

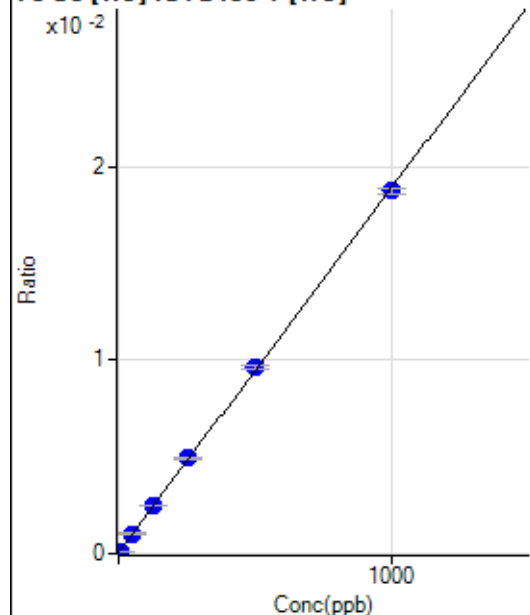
$$R = 0.9999$$

$$DL = 0.008562$$

$$BEC = 0.4546$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS      | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|----------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 74.08    | 0.0001 | P   | 5.6 |
| 2 | <input type="checkbox"/> | 0.500    |            |          |        |     |     |
| 3 | <input type="checkbox"/> | 5.000    | 4.685      | 185.81   | 0.0001 | P   | 2.9 |
| 4 | <input type="checkbox"/> | 50.000   | 52.125     | 1339.58  | 0.0010 | P   | 6.9 |
| 5 | <input type="checkbox"/> | 125.000  | 130.395    | 3209.03  | 0.0025 | P   | 1.1 |
| 6 | <input type="checkbox"/> | 250.000  | 259.047    | 6221.75  | 0.0049 | P   | 2.5 |
| 7 | <input type="checkbox"/> | 500.000  | 509.700    | 12585.16 | 0.0097 | P   | 1.6 |
| 8 | <input type="checkbox"/> | 1000.000 | 992.109    | 23887.60 | 0.0187 | P   | 1.4 |
| 9 | <input type="checkbox"/> |          |            | 95.68    | 0.0001 | P   | 6.8 |

$$y = 1.8824\text{E-}005 * x + 5.6799\text{E-}005$$

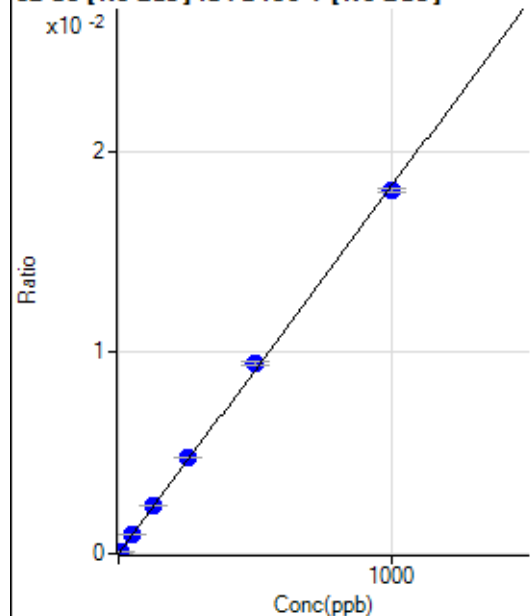
$$R = 0.9999$$

$$DL = 0.5061$$

$$BEC = 3.017$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS       | Ratio  | Det | RSD   |
|---|--------------------------|----------|------------|-----------|--------|-----|-------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | -52.66    | 0.0000 | P   | -185. |
| 2 | <input type="checkbox"/> | 0.500    |            |           |        |     |       |
| 3 | <input type="checkbox"/> | 5.000    | 4.408      | 703.20    | 0.0001 | P   | 11.4  |
| 4 | <input type="checkbox"/> | 50.000   | 52.598     | 8898.71   | 0.0010 | P   | 0.5   |
| 5 | <input type="checkbox"/> | 125.000  | 130.406    | 22227.38  | 0.0024 | P   | 1.7   |
| 6 | <input type="checkbox"/> | 250.000  | 260.105    | 43598.07  | 0.0048 | P   | 0.7   |
| 7 | <input type="checkbox"/> | 500.000  | 518.388    | 84859.06  | 0.0095 | P   | 1.5   |
| 8 | <input type="checkbox"/> | 1000.000 | 987.477    | 166864.95 | 0.0181 | P   | 0.9   |
| 9 | <input type="checkbox"/> |          |            | 172.85    | 0.0000 | P   | 54.8  |

$$y = 1.8293\text{E-}005 * x - 5.5977\text{E-}006$$

$$R = 0.9997$$

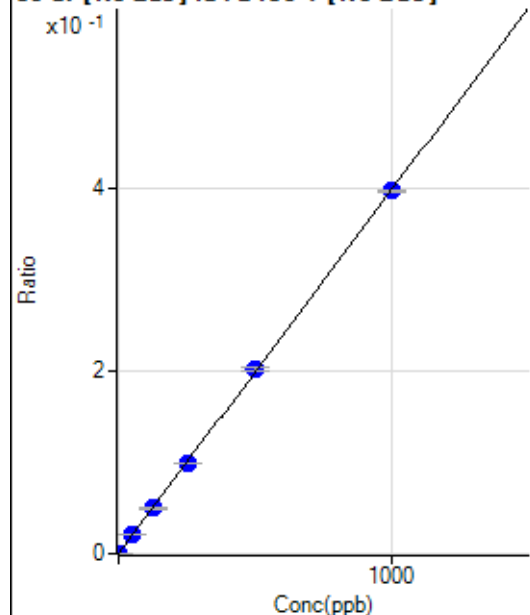
$$DL = 1.707$$

$$BEC = -0.306$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD |
|---|--------------------------|----------|------------|------------|--------|------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 2278.06    | 0.0002 | P    | 6.6 |
| 2 | <input type="checkbox"/> | 0.100    |            |            |        |      |     |
| 3 | <input type="checkbox"/> | 1.000    | 0.890      | 5609.67    | 0.0006 | P    | 3.0 |
| 4 | <input type="checkbox"/> | 50.000   | 50.004     | 187792.64  | 0.0202 | P    | 0.9 |
| 5 | <input type="checkbox"/> | 125.000  | 123.834    | 463552.10  | 0.0496 | P    | 1.1 |
| 6 | <input type="checkbox"/> | 250.000  | 247.359    | 907282.63  | 0.0989 | P    | 0.3 |
| 7 | <input type="checkbox"/> | 500.000  | 506.238    | 1809878.21 | 0.2021 | P    | 2.2 |
| 8 | <input type="checkbox"/> | 1000.000 | 997.687    | 3679135.46 | 0.3981 | P    | 0.4 |
| 9 | <input type="checkbox"/> |          |            | 126189.42  | 0.0137 | P    | 1.1 |

$$y = 3.9883\text{E-}004 * x + 2.4393\text{E-}004$$

$$R = 1.0000$$

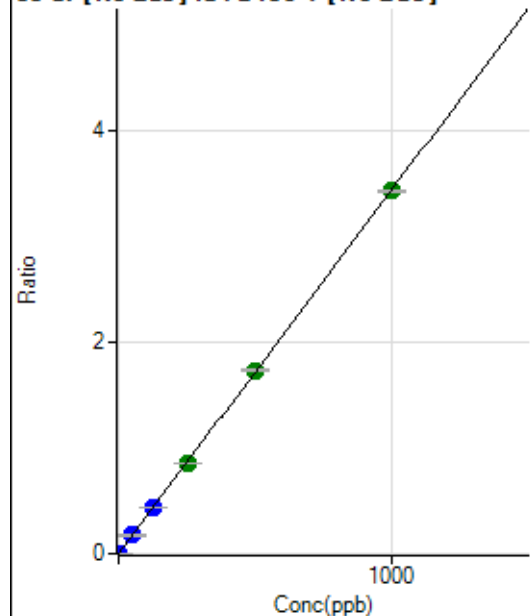
$$DL = 0.1208$$

$$BEC = 0.6116$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD |
|---|--------------------------|----------|------------|-------------|--------|------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 211.12      | 0.0000 | P    | 7.0 |
| 2 | <input type="checkbox"/> | 0.100    |            |             |        |      |     |
| 3 | <input type="checkbox"/> | 1.000    | 0.908      | 29484.08    | 0.0031 | P    | 1.9 |
| 4 | <input type="checkbox"/> | 50.000   | 50.388     | 1612498.55  | 0.1733 | P    | 0.7 |
| 5 | <input type="checkbox"/> | 125.000  | 125.870    | 4043775.26  | 0.4330 | P    | 1.2 |
| 6 | <input type="checkbox"/> | 250.000  | 247.837    | 7820684.03  | 0.8525 | A    | 0.4 |
| 7 | <input type="checkbox"/> | 500.000  | 504.777    | 15545995.49 | 1.7362 | A    | 1.7 |
| 8 | <input type="checkbox"/> | 1000.000 | 998.024    | 31721778.49 | 3.4328 | A    | 0.4 |
| 9 | <input type="checkbox"/> |          |            | 1078829.65  | 0.1168 | P    | 0.4 |

$$y = 0.0034 * x + 2.2626\text{E-}005$$

$$R = 1.0000$$

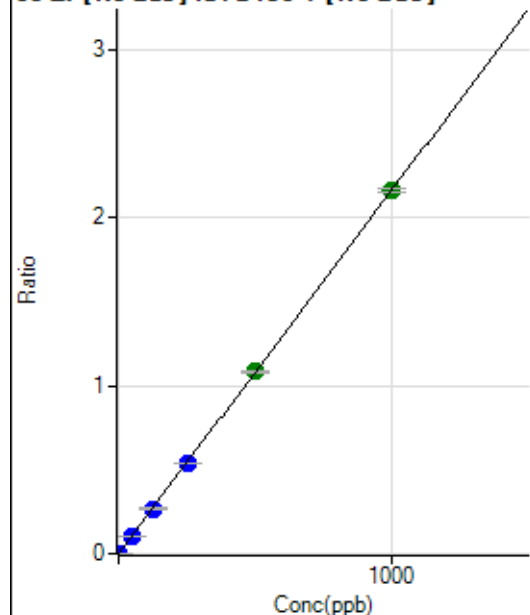
$$DL = 0.001388$$

$$BEC = 0.006578$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD |
|---|--------------------------|----------|------------|-------------|--------|------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 958.41      | 0.0001 | P    | 1.7 |
| 2 | <input type="checkbox"/> | 0.100    |            |             |        |      |     |
| 3 | <input type="checkbox"/> | 1.000    | 0.796      | 17080.29    | 0.0018 | P    | 2.5 |
| 4 | <input type="checkbox"/> | 50.000   | 48.964     | 985911.56   | 0.1060 | P    | 0.9 |
| 5 | <input type="checkbox"/> | 125.000  | 124.034    | 2506007.59  | 0.2683 | P    | 1.1 |
| 6 | <input type="checkbox"/> | 250.000  | 251.203    | 4984335.70  | 0.5433 | P    | 0.2 |
| 7 | <input type="checkbox"/> | 500.000  | 501.219    | 9706119.58  | 1.0839 | A    | 1.2 |
| 8 | <input type="checkbox"/> | 1000.000 | 999.263    | 19968018.50 | 2.1609 | A    | 1.0 |
| 9 | <input type="checkbox"/> |          |            | 7418.90     | 0.0008 | P    | 7.0 |

$$y = 0.0022 * x + 1.0268E-004$$

$$R = 1.0000$$

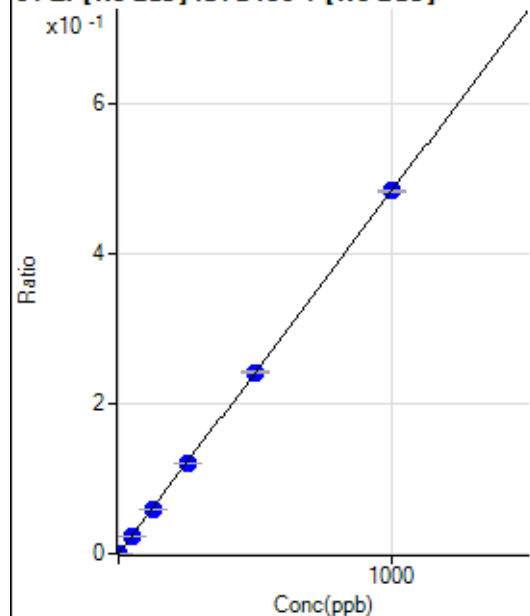
$$DL = 0.002398$$

$$BEC = 0.04748$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 144.45     | 0.0000 | P    | 23.2 |
| 2 | <input type="checkbox"/> | 0.100    |            |            |        |      |      |
| 3 | <input type="checkbox"/> | 1.000    | 0.804      | 3778.44    | 0.0004 | P    | 6.2  |
| 4 | <input type="checkbox"/> | 50.000   | 49.042     | 220402.06  | 0.0237 | P    | 1.3  |
| 5 | <input type="checkbox"/> | 125.000  | 122.724    | 553512.28  | 0.0593 | P    | 1.7  |
| 6 | <input type="checkbox"/> | 250.000  | 246.800    | 1093276.20 | 0.1192 | P    | 0.1  |
| 7 | <input type="checkbox"/> | 500.000  | 501.091    | 2166372.96 | 0.2419 | P    | 1.5  |
| 8 | <input type="checkbox"/> | 1000.000 | 1000.587   | 4464068.80 | 0.4831 | P    | 0.9  |
| 9 | <input type="checkbox"/> |          |            | 1569.60    | 0.0002 | P    | 8.8  |

$$y = 4.8280E-004 * x + 1.5472E-005$$

$$R = 1.0000$$

$$DL = 0.02226$$

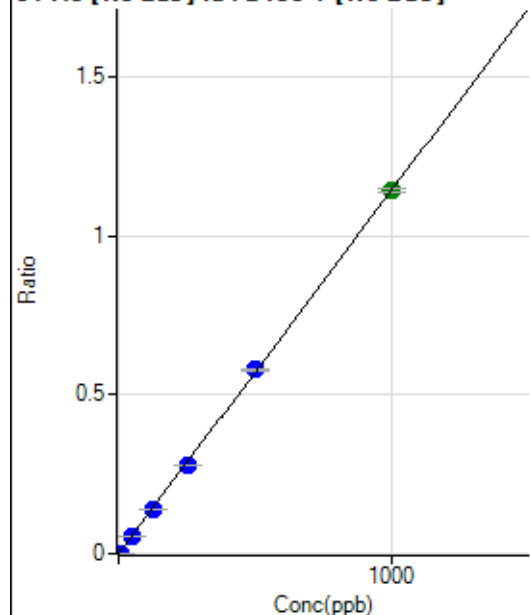
$$BEC = 0.03205$$

Weight: &lt;None&gt;

Min Conc: 0



94 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      | 322.24      | 0.0000 | P    | 8.1 |
| 2 | <input type="checkbox"/> | 0.500    |            |             |        |      |     |
| 3 | <input type="checkbox"/> | 5.000    | 1.850      | 20159.45    | 0.0022 | P    | 2.4 |
| 4 | <input type="checkbox"/> | 50.000   | 48.554     | 517415.45   | 0.0556 | P    | 0.5 |
| 5 | <input type="checkbox"/> | 125.000  | 122.053    | 1305256.83  | 0.1398 | P    | 1.9 |
| 6 | <input type="checkbox"/> | 250.000  | 245.407    | 2577672.28  | 0.2810 | P    | 0.1 |
| 7 | <input type="checkbox"/> | 500.000  | 505.702    | 5183895.56  | 0.5790 | P    | 1.8 |
| 8 | <input type="checkbox"/> | 1000.000 | 998.754    | 10565525.85 | 1.1434 | A    | 1.2 |
| 9 | <input type="checkbox"/> |          |            | 17620.74    | 0.0019 | P    | 0.8 |

$$y = 0.0011 * x + 3.4502E-005$$

$$R = 1.0000$$

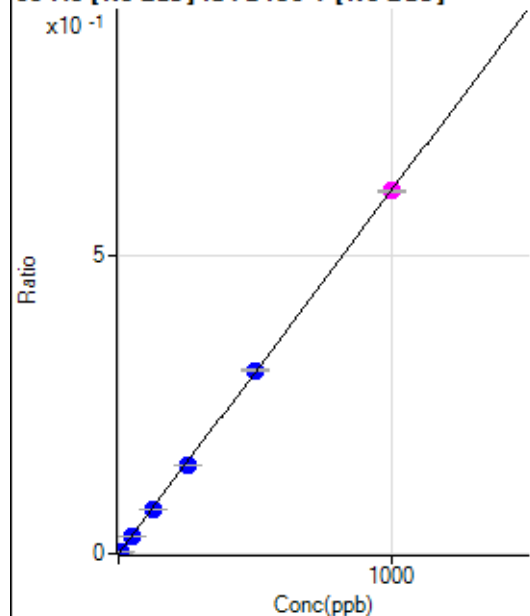
$$DL = 0.007339$$

$$BEC = 0.03014$$

Weight: &lt;None&gt;

Min Conc: 0

95 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      | 133.34     | 0.0000 | P    | 5.9 |
| 2 | <input type="checkbox"/> | 0.500    |            |            |        |      |     |
| 3 | <input type="checkbox"/> | 5.000    | 4.317      | 24833.52   | 0.0027 | P    | 1.8 |
| 4 | <input type="checkbox"/> | 50.000   | 49.033     | 278718.49  | 0.0300 | P    | 1.2 |
| 5 | <input type="checkbox"/> | 125.000  | 122.497    | 698903.70  | 0.0748 | P    | 1.0 |
| 6 | <input type="checkbox"/> | 250.000  | 245.495    | 1375665.30 | 0.1500 | P    | 0.3 |
| 7 | <input type="checkbox"/> | 500.000  | 505.178    | 2762723.87 | 0.3086 | P    | 1.8 |
| 8 | <input type="checkbox"/> | 1000.000 | 998.902    | 5637658.37 | 0.6101 | M    | 0.7 |
| 9 | <input type="checkbox"/> |          |            | 25429.04   | 0.0028 | P    | 0.7 |

$$y = 6.1076E-004 * x + 1.4283E-005$$

$$R = 1.0000$$

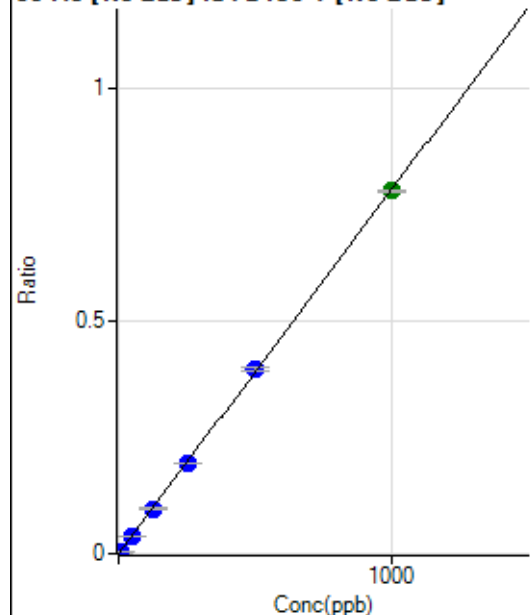
$$DL = 0.004164$$

$$BEC = 0.02339$$

Weight: &lt;None&gt;

Min Conc: 0

96 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      | 250.01     | 0.0000 | P    | 10.3 |
| 2 | <input type="checkbox"/> | 0.500    |            |            |        |      |      |
| 3 | <input type="checkbox"/> | 5.000    | 3.786      | 28022.90   | 0.0030 | P    | 2.3  |
| 4 | <input type="checkbox"/> | 50.000   | 49.440     | 360462.32  | 0.0387 | P    | 1.2  |
| 5 | <input type="checkbox"/> | 125.000  | 123.746    | 905428.70  | 0.0969 | P    | 1.4  |
| 6 | <input type="checkbox"/> | 250.000  | 247.902    | 1781414.90 | 0.1942 | P    | 1.0  |
| 7 | <input type="checkbox"/> | 500.000  | 507.817    | 3561173.69 | 0.3978 | P    | 2.3  |
| 8 | <input type="checkbox"/> | 1000.000 | 996.807    | 7214474.47 | 0.7807 | A    | 0.3  |
| 9 | <input type="checkbox"/> |          |            | 34139.12   | 0.0037 | P    | 1.3  |

$$y = 7.8321\text{E-}004 * x + 2.6790\text{E-}005$$

$$R = 1.0000$$

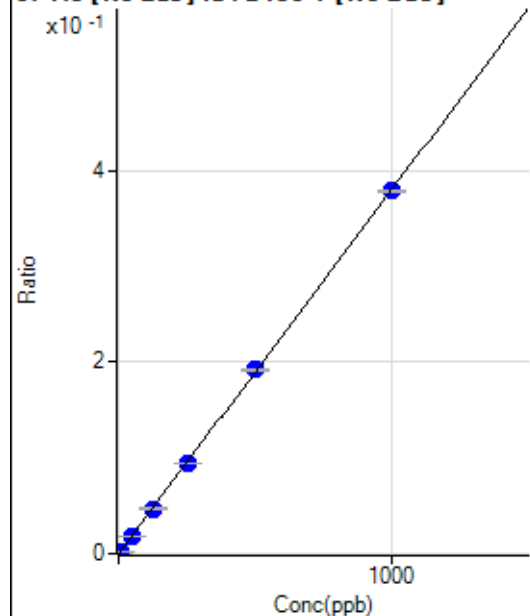
$$DL = 0.01061$$

$$BEC = 0.03421$$

Weight: &lt;None&gt;

Min Conc: 0

97 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      | 125.01     | 0.0000 | P    | 6.3 |
| 2 | <input type="checkbox"/> | 0.500    |            |            |        |      |     |
| 3 | <input type="checkbox"/> | 5.000    | 4.367      | 15645.35   | 0.0017 | P    | 1.9 |
| 4 | <input type="checkbox"/> | 50.000   | 49.623     | 175273.10  | 0.0188 | P    | 0.9 |
| 5 | <input type="checkbox"/> | 125.000  | 123.794    | 438801.00  | 0.0470 | P    | 1.3 |
| 6 | <input type="checkbox"/> | 250.000  | 248.089    | 863640.19  | 0.0941 | P    | 0.8 |
| 7 | <input type="checkbox"/> | 500.000  | 505.820    | 1718500.73 | 0.1919 | P    | 1.8 |
| 8 | <input type="checkbox"/> | 1000.000 | 997.741    | 3498180.29 | 0.3786 | P    | 0.9 |
| 9 | <input type="checkbox"/> |          |            | 15884.43   | 0.0017 | P    | 3.3 |

$$y = 3.7942\text{E-}004 * x + 1.3390\text{E-}005$$

$$R = 1.0000$$

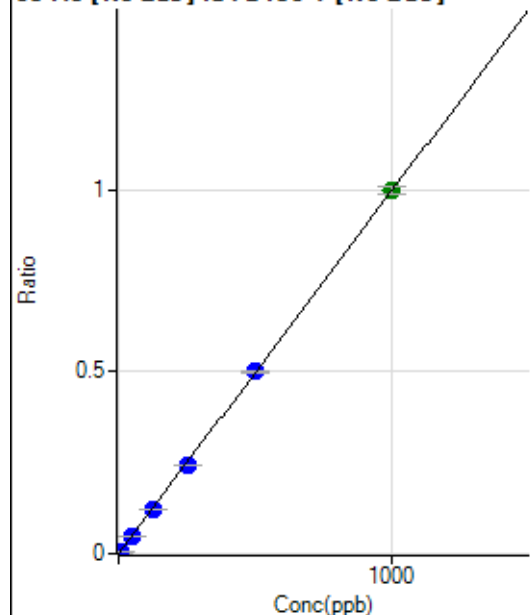
$$DL = 0.006722$$

$$BEC = 0.03529$$

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      | 186.12     | 0.0000 | P    | 23.0 |
| 2 | <input type="checkbox"/> | 0.500    |            |            |        |      |      |
| 3 | <input type="checkbox"/> | 5.000    | 4.261      | 39895.75   | 0.0043 | P    | 2.5  |
| 4 | <input type="checkbox"/> | 50.000   | 48.934     | 453054.70  | 0.0487 | P    | 0.9  |
| 5 | <input type="checkbox"/> | 125.000  | 121.688    | 1130856.47 | 0.1211 | P    | 1.2  |
| 6 | <input type="checkbox"/> | 250.000  | 244.630    | 2232814.65 | 0.2434 | P    | 0.7  |
| 7 | <input type="checkbox"/> | 500.000  | 501.441    | 4466955.96 | 0.4989 | P    | 1.5  |
| 8 | <input type="checkbox"/> | 1000.000 | 1001.093   | 9202756.28 | 0.9960 | A    | 2.0  |
| 9 | <input type="checkbox"/> |          |            | 40976.88   | 0.0044 | P    | 1.6  |

$$y = 9.9484\text{E-}004 * x + 1.9944\text{E-}005$$

$$R = 1.0000$$

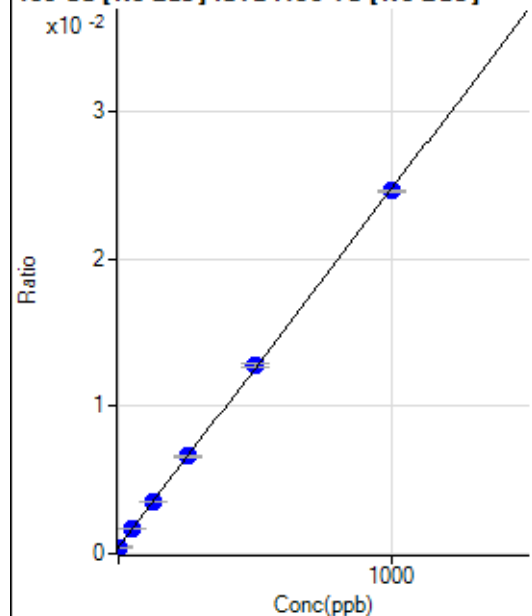
$$DL = 0.01385$$

$$BEC = 0.02005$$

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      | 5476.30   | 0.0004 | P    | 8.0 |
| 2 | <input type="checkbox"/> | 0.100    |            |           |        |      |     |
| 3 | <input type="checkbox"/> | 1.000    | -1.494     | 5115.03   | 0.0004 | P    | 3.1 |
| 4 | <input type="checkbox"/> | 50.000   | 49.300     | 20262.52  | 0.0016 | P    | 1.7 |
| 5 | <input type="checkbox"/> | 125.000  | 126.382    | 43545.69  | 0.0035 | P    | 0.5 |
| 6 | <input type="checkbox"/> | 250.000  | 252.876    | 80954.14  | 0.0066 | P    | 1.8 |
| 7 | <input type="checkbox"/> | 500.000  | 509.417    | 154489.66 | 0.0128 | P    | 1.8 |
| 8 | <input type="checkbox"/> | 1000.000 | 994.437    | 301395.98 | 0.0246 | P    | 0.4 |
| 9 | <input type="checkbox"/> |          |            | 4261.96   | 0.0004 | P    | 4.6 |

$$y = 2.4283\text{E-}005 * x + 4.4951\text{E-}004$$

$$R = 0.9999$$

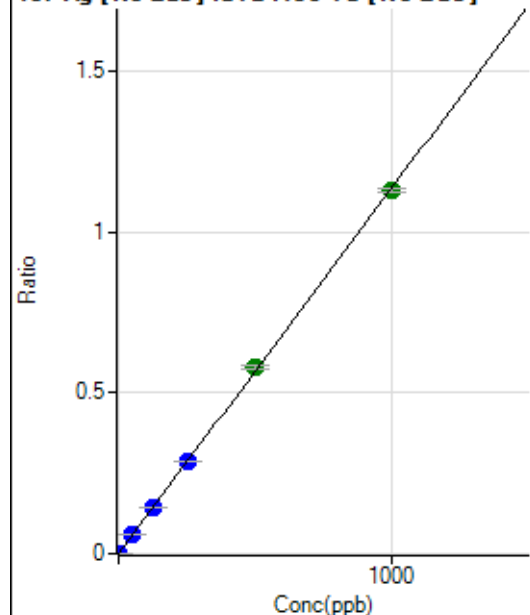
$$DL = 4.42$$

$$BEC = 18.51$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 283.35      | 0.0000 | P    | 25.2 |
| 2 | <input type="checkbox"/> | 0.100    |            |             |        |      |      |
| 3 | <input type="checkbox"/> | 1.000    | 1.219      | 17425.44    | 0.0014 | P    | 3.0  |
| 4 | <input type="checkbox"/> | 50.000   | 52.065     | 727935.26   | 0.0592 | P    | 0.7  |
| 5 | <input type="checkbox"/> | 125.000  | 128.597    | 1807943.34  | 0.1461 | P    | 0.4  |
| 6 | <input type="checkbox"/> | 250.000  | 254.354    | 3548935.28  | 0.2889 | P    | 0.7  |
| 7 | <input type="checkbox"/> | 500.000  | 510.230    | 6983791.22  | 0.5795 | A    | 1.9  |
| 8 | <input type="checkbox"/> | 1000.000 | 993.243    | 13822963.33 | 1.1281 | A    | 1.1  |
| 9 | <input type="checkbox"/> |          |            | 2903.21     | 0.0002 | P    | 4.9  |

$$y = 0.0011 * x + 2.3258E-005$$

$$R = 0.9999$$

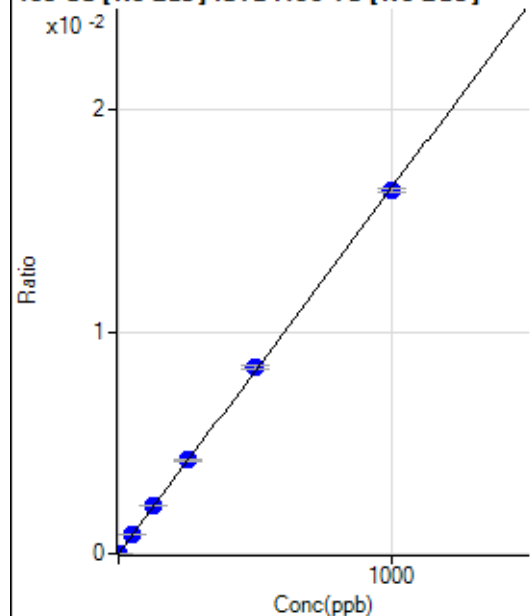
$$DL = 0.01545$$

$$BEC = 0.02048$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS       | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-----------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 5.56      | 0.0000 | P    | 43.0 |
| 2 | <input type="checkbox"/> | 0.100    |            |           |        |      |      |
| 3 | <input type="checkbox"/> | 1.000    | 1.014      | 212.51    | 0.0000 | P    | 7.7  |
| 4 | <input type="checkbox"/> | 50.000   | 52.403     | 10634.73  | 0.0009 | P    | 1.9  |
| 5 | <input type="checkbox"/> | 125.000  | 131.956    | 26925.89  | 0.0022 | P    | 1.1  |
| 6 | <input type="checkbox"/> | 250.000  | 255.542    | 51751.28  | 0.0042 | P    | 1.2  |
| 7 | <input type="checkbox"/> | 500.000  | 510.462    | 101406.66 | 0.0084 | P    | 2.0  |
| 8 | <input type="checkbox"/> | 1000.000 | 992.394    | 200449.47 | 0.0164 | P    | 1.0  |
| 9 | <input type="checkbox"/> |          |            | 87.50     | 0.0000 | P    | 16.2 |

$$y = 1.6484E-005 * x + 4.5581E-007$$

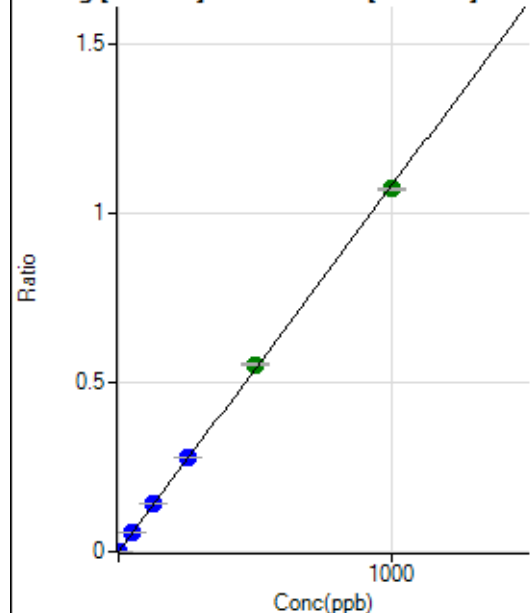
$$R = 0.9999$$

$$DL = 0.03571$$

$$BEC = 0.02765$$

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      | 244.46      | 0.0000 | P    | 15.2 |
| 2 | <input type="checkbox"/> | 0.100    |            |             |        |      |      |
| 3 | <input type="checkbox"/> | 1.000    | 1.201      | 16324.02    | 0.0013 | P    | 1.7  |
| 4 | <input type="checkbox"/> | 50.000   | 52.496     | 698459.59   | 0.0568 | P    | 0.2  |
| 5 | <input type="checkbox"/> | 125.000  | 129.781    | 1736358.63  | 0.1403 | P    | 0.7  |
| 6 | <input type="checkbox"/> | 250.000  | 257.446    | 3418466.57  | 0.2783 | P    | 0.9  |
| 7 | <input type="checkbox"/> | 500.000  | 510.978    | 6656566.21  | 0.5523 | A    | 1.1  |
| 8 | <input type="checkbox"/> | 1000.000 | 991.927    | 13137571.22 | 1.0722 | A    | 0.6  |
| 9 | <input type="checkbox"/> |          |            | 3384.21     | 0.0003 | P    | 34.5 |

$$y = 0.0011 * x + 2.0049E-005$$

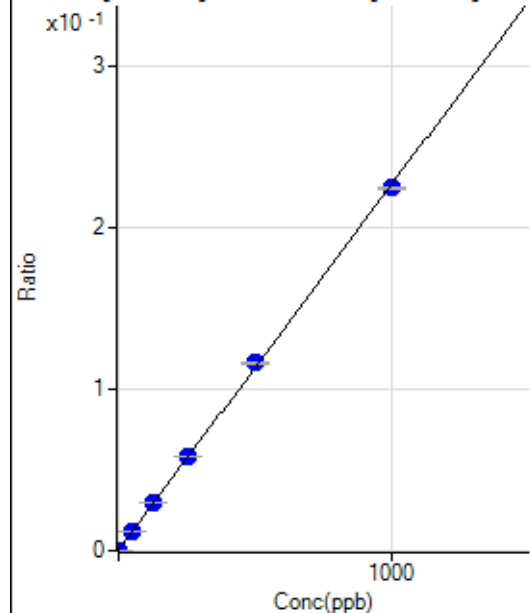
$$R = 0.9999$$

$$DL = 0.008463$$

$$BEC = 0.01855$$

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      | 3847.58    | 0.0003 | P    | 8.2 |
| 2 | <input type="checkbox"/> | 0.100    |            |            |        |      |     |
| 3 | <input type="checkbox"/> | 1.000    | 0.756      | 6027.90    | 0.0005 | P    | 3.5 |
| 4 | <input type="checkbox"/> | 50.000   | 52.653     | 150510.93  | 0.0122 | P    | 0.7 |
| 5 | <input type="checkbox"/> | 125.000  | 130.148    | 368435.81  | 0.0298 | P    | 0.6 |
| 6 | <input type="checkbox"/> | 250.000  | 257.048    | 718449.88  | 0.0585 | P    | 1.1 |
| 7 | <input type="checkbox"/> | 500.000  | 512.759    | 1402265.06 | 0.1164 | P    | 1.5 |
| 8 | <input type="checkbox"/> | 1000.000 | 991.082    | 2752159.82 | 0.2246 | P    | 0.7 |
| 9 | <input type="checkbox"/> |          |            | 3737.44    | 0.0003 | P    | 2.7 |

$$y = 2.2631E-004 * x + 3.1582E-004$$

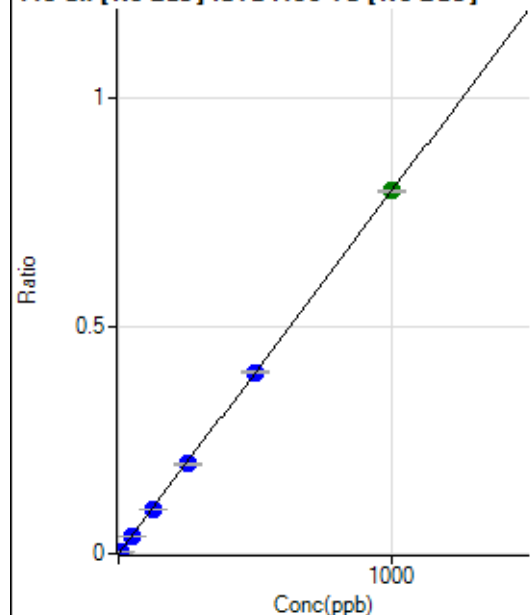
$$R = 0.9998$$

$$DL = 0.3413$$

$$BEC = 1.395$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 1111.21    | 0.0001 | P    | 11.0 |
| 2 | <input type="checkbox"/> | 0.500    |            |            |        |      |      |
| 3 | <input type="checkbox"/> | 5.000    | 4.388      | 44393.28   | 0.0036 | P    | 2.4  |
| 4 | <input type="checkbox"/> | 50.000   | 49.585     | 487080.63  | 0.0396 | P    | 0.8  |
| 5 | <input type="checkbox"/> | 125.000  | 123.106    | 1214606.46 | 0.0981 | P    | 0.7  |
| 6 | <input type="checkbox"/> | 250.000  | 246.745    | 2415144.69 | 0.1966 | P    | 0.8  |
| 7 | <input type="checkbox"/> | 500.000  | 500.462    | 4804675.89 | 0.3987 | P    | 1.6  |
| 8 | <input type="checkbox"/> | 1000.000 | 1000.843   | 9768493.27 | 0.7972 | A    | 0.5  |
| 9 | <input type="checkbox"/> |          |            | 14410.70   | 0.0012 | P    | 2.3  |

$$y = 7.9647\text{E-}004 * x + 9.1217\text{E-}005$$

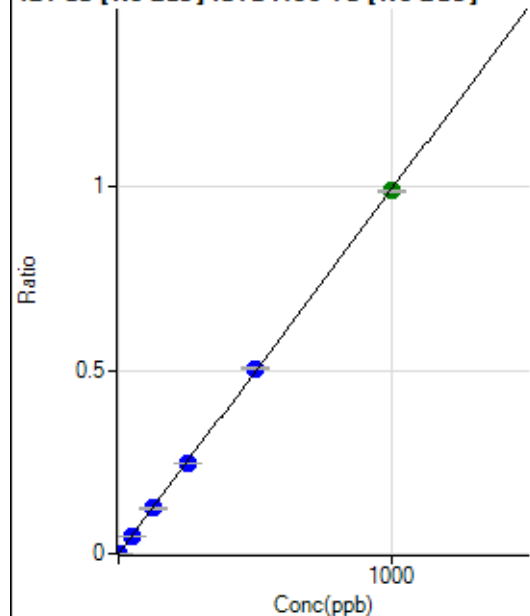
$$R = 1.0000$$

$$DL = 0.0379$$

$$BEC = 0.1145$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 536.15      | 0.0000 | P    | 18.9 |
| 2 | <input type="checkbox"/> | 0.200    |            |             |        |      |      |
| 3 | <input type="checkbox"/> | 2.000    | 1.781      | 22413.22    | 0.0018 | P    | 0.7  |
| 4 | <input type="checkbox"/> | 50.000   | 49.447     | 603961.90   | 0.0491 | P    | 0.4  |
| 5 | <input type="checkbox"/> | 125.000  | 124.356    | 1526900.33  | 0.1234 | P    | 0.6  |
| 6 | <input type="checkbox"/> | 250.000  | 248.984    | 3033748.24  | 0.2470 | P    | 0.7  |
| 7 | <input type="checkbox"/> | 500.000  | 508.802    | 6081524.14  | 0.5047 | P    | 1.6  |
| 8 | <input type="checkbox"/> | 1000.000 | 995.962    | 12103415.46 | 0.9878 | A    | 0.4  |
| 9 | <input type="checkbox"/> |          |            | 42515.50    | 0.0035 | P    | 3.5  |

$$y = 9.9176\text{E-}004 * x + 4.3998\text{E-}005$$

$$R = 0.9999$$

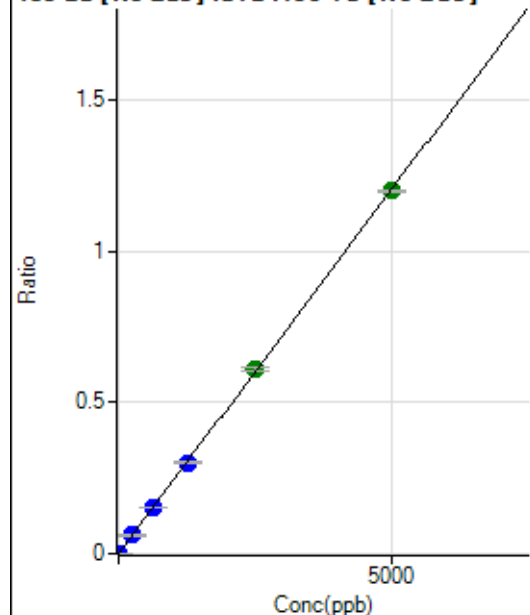
$$DL = 0.02516$$

$$BEC = 0.04436$$

Weight: &lt;None&gt;

Min Conc: 0

135 Ba [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      | 125.00      | 0.0000 | P    | 40.4 |
| 2 | <input type="checkbox"/> | 1.000    |            |             |        |      |      |
| 3 | <input type="checkbox"/> | 10.000   | 8.765      | 26259.23    | 0.0021 | P    | 3.9  |
| 4 | <input type="checkbox"/> | 250.000  | 251.219    | 744723.08   | 0.0605 | P    | 0.9  |
| 5 | <input type="checkbox"/> | 625.000  | 626.145    | 1866723.00  | 0.1508 | P    | 0.6  |
| 6 | <input type="checkbox"/> | 1250.000 | 1248.569   | 3694376.99  | 0.3008 | P    | 1.0  |
| 7 | <input type="checkbox"/> | 2500.000 | 2536.831   | 7364197.65  | 0.6111 | A    | 1.3  |
| 8 | <input type="checkbox"/> | 5000.000 | 4981.741   | 14703374.46 | 1.2000 | A    | 0.8  |
| 9 | <input type="checkbox"/> |          |            | 7469.01     | 0.0006 | P    | 8.1  |

$$y = 2.4088\text{E-}004 * x + 1.0256\text{E-}005$$

$$R = 1.0000$$

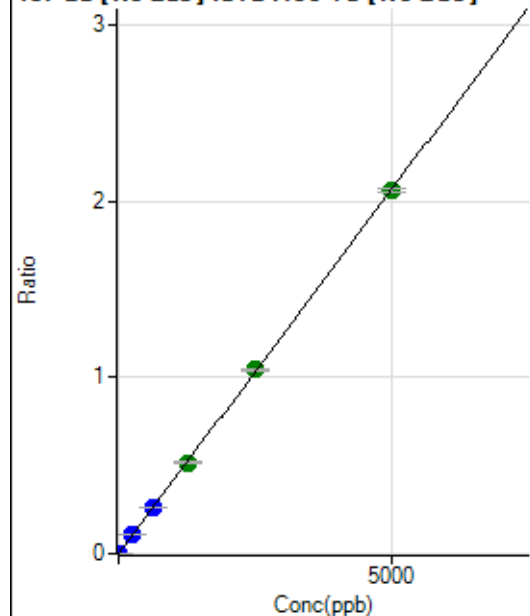
$$DL = 0.0516$$

$$BEC = 0.04258$$

Weight: &lt;None&gt;

Min Conc: 0

137 Ba [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      | 202.79      | 0.0000 | P    | 24.8 |
| 2 | <input type="checkbox"/> | 1.000    |            |             |        |      |      |
| 3 | <input type="checkbox"/> | 10.000   | 8.836      | 45405.82    | 0.0037 | P    | 1.6  |
| 4 | <input type="checkbox"/> | 250.000  | 255.566    | 1299676.57  | 0.1056 | P    | 0.5  |
| 5 | <input type="checkbox"/> | 625.000  | 636.537    | 3255489.12  | 0.2630 | P    | 1.0  |
| 6 | <input type="checkbox"/> | 1250.000 | 1248.543   | 6337574.62  | 0.5159 | A    | 1.1  |
| 7 | <input type="checkbox"/> | 2500.000 | 2531.356   | 12606180.14 | 1.0460 | A    | 1.3  |
| 8 | <input type="checkbox"/> | 5000.000 | 4982.968   | 25230088.58 | 2.0591 | A    | 1.2  |
| 9 | <input type="checkbox"/> |          |            | 13017.76    | 0.0011 | P    | 3.5  |

$$y = 4.1322\text{E-}004 * x + 1.6659\text{E-}005$$

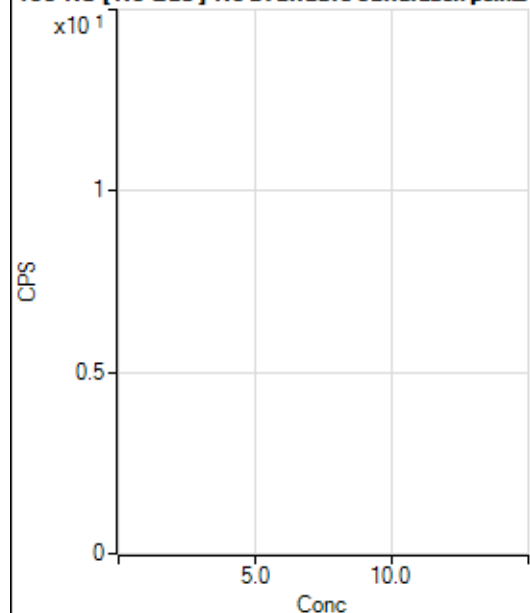
$$R = 1.0000$$

$$DL = 0.02993$$

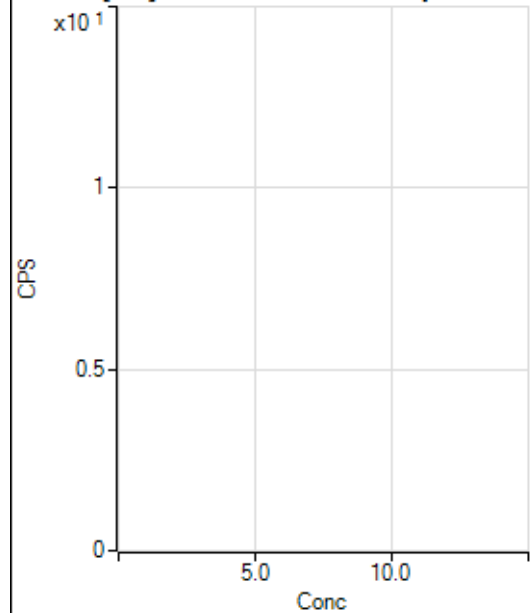
$$BEC = 0.04031$$

Weight: &lt;None&gt;

Min Conc: 0

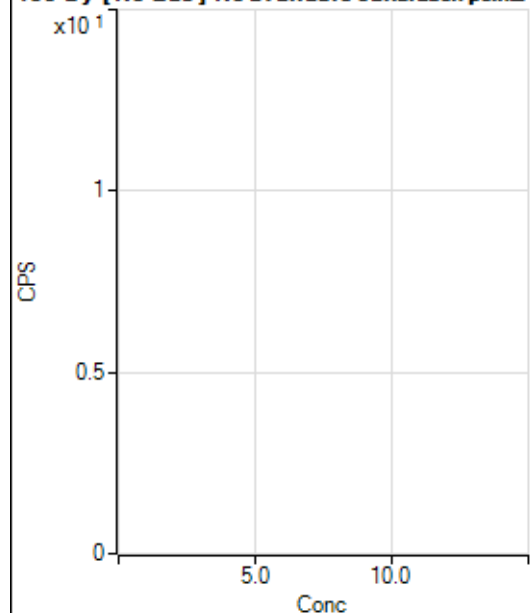
**150 Nd [ No Gas ] No available calibration points**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS     | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|---------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 13.33   |       | P        | 50.0 |
| 2 | <input type="checkbox"/> |       |            |         |       |          |      |
| 3 | <input type="checkbox"/> |       |            | 8.89    |       | P        | 86.6 |
| 4 | <input type="checkbox"/> |       |            | 57.78   |       | P        | 6.7  |
| 5 | <input type="checkbox"/> |       |            | 135.56  |       | P        | 39.4 |
| 6 | <input type="checkbox"/> |       |            | 235.57  |       | P        | 18.2 |
| 7 | <input type="checkbox"/> |       |            | 464.47  |       | P        | 23.4 |
| 8 | <input type="checkbox"/> |       |            | 1048.96 |       | P        | 5.1  |
| 9 | <input type="checkbox"/> |       |            | 220.01  |       | P        | 12.1 |

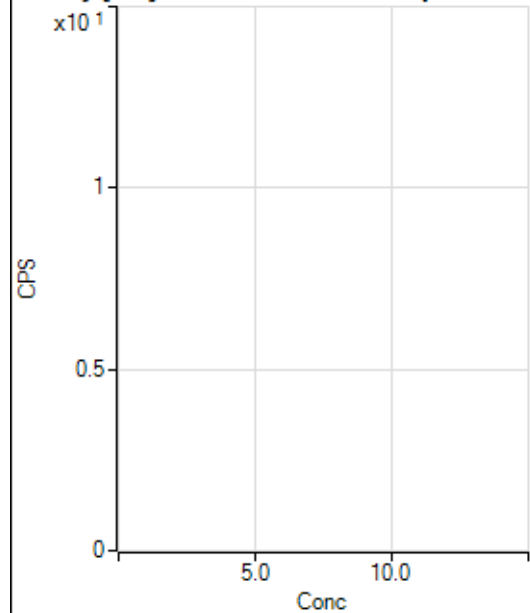
**150 Nd [ He ] No available calibration points**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD   |
|---|--------------------------|-------|------------|--------|-------|----------|-------|
| 1 | <input type="checkbox"/> |       |            | 1.11   |       | P        | 173.2 |
| 2 | <input type="checkbox"/> |       |            |        |       |          |       |
| 3 | <input type="checkbox"/> |       |            | 1.11   |       | P        | 173.2 |
| 4 | <input type="checkbox"/> |       |            | 2.22   |       | P        | 173.2 |
| 5 | <input type="checkbox"/> |       |            | 15.56  |       | P        | 32.7  |
| 6 | <input type="checkbox"/> |       |            | 16.67  |       | P        | 60.0  |
| 7 | <input type="checkbox"/> |       |            | 50.00  |       | P        | 37.1  |
| 8 | <input type="checkbox"/> |       |            | 110.00 |       | P        | 16.9  |
| 9 | <input type="checkbox"/> |       |            | 63.33  |       | P        | 51.8  |

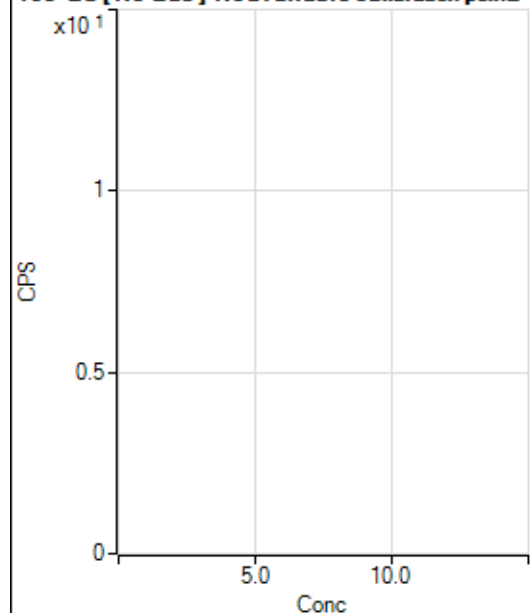


**156 Dy [ No Gas ] No available calibration points**

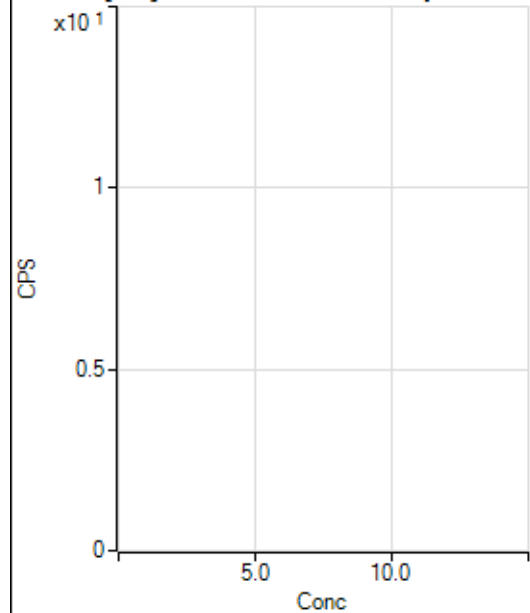
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 55.56  |       | P        | 22.9 |
| 2 | <input type="checkbox"/> |       |            |        |       |          |      |
| 3 | <input type="checkbox"/> |       |            | 22.22  |       | P        | 57.3 |
| 4 | <input type="checkbox"/> |       |            | 75.00  |       | P        | 19.2 |
| 5 | <input type="checkbox"/> |       |            | 55.56  |       | P        | 56.8 |
| 6 | <input type="checkbox"/> |       |            | 105.56 |       | P        | 43.5 |
| 7 | <input type="checkbox"/> |       |            | 191.67 |       | P        | 7.5  |
| 8 | <input type="checkbox"/> |       |            | 375.02 |       | P        | NaN  |
| 9 | <input type="checkbox"/> |       |            | 252.79 |       | P        | 10.1 |

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

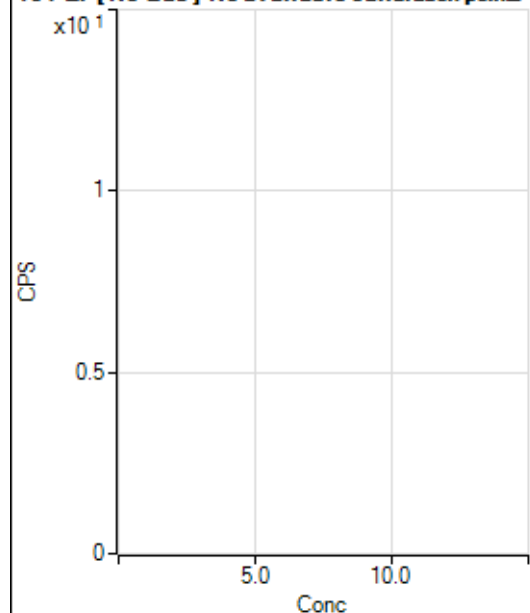
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 3.33   |       | P        | 0.0  |
| 2 | <input type="checkbox"/> |       |            |        |       |          |      |
| 3 | <input type="checkbox"/> |       |            | 5.56   |       | P        | 91.6 |
| 4 | <input type="checkbox"/> |       |            | 10.00  |       | P        | 57.7 |
| 5 | <input type="checkbox"/> |       |            | 16.67  |       | P        | 40.0 |
| 6 | <input type="checkbox"/> |       |            | 31.11  |       | P        | 50.6 |
| 7 | <input type="checkbox"/> |       |            | 64.44  |       | P        | 33.7 |
| 8 | <input type="checkbox"/> |       |            | 143.34 |       | P        | 12.1 |
| 9 | <input type="checkbox"/> |       |            | 108.89 |       | P        | 4.7  |

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

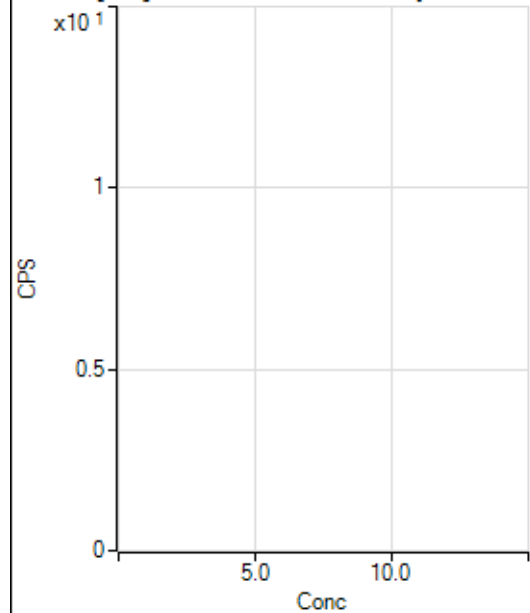
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 238.90 |       | P        | 21.0 |
| 2 | <input type="checkbox"/> |       |            |        |       |          |      |
| 3 | <input type="checkbox"/> |       |            | 150.01 |       | P        | 5.6  |
| 4 | <input type="checkbox"/> |       |            | 177.79 |       | P        | 22.2 |
| 5 | <input type="checkbox"/> |       |            | 208.35 |       | P        | 20.8 |
| 6 | <input type="checkbox"/> |       |            | 197.23 |       | P        | 12.2 |
| 7 | <input type="checkbox"/> |       |            | 244.46 |       | P        | 12.9 |
| 8 | <input type="checkbox"/> |       |            | 238.90 |       | P        | 8.8  |
| 9 | <input type="checkbox"/> |       |            | 280.57 |       | P        | 14.7 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 88.89  |       | P        | 26.6 |
| 2 | <input type="checkbox"/> |       |            |        |       |          |      |
| 3 | <input type="checkbox"/> |       |            | 95.56  |       | P        | 15.7 |
| 4 | <input type="checkbox"/> |       |            | 93.34  |       | P        | 12.9 |
| 5 | <input type="checkbox"/> |       |            | 85.56  |       | P        | 19.6 |
| 6 | <input type="checkbox"/> |       |            | 91.11  |       | P        | 43.7 |
| 7 | <input type="checkbox"/> |       |            | 134.45 |       | P        | 17.4 |
| 8 | <input type="checkbox"/> |       |            | 197.78 |       | P        | 16.2 |
| 9 | <input type="checkbox"/> |       |            | 164.45 |       | P        | 20.0 |

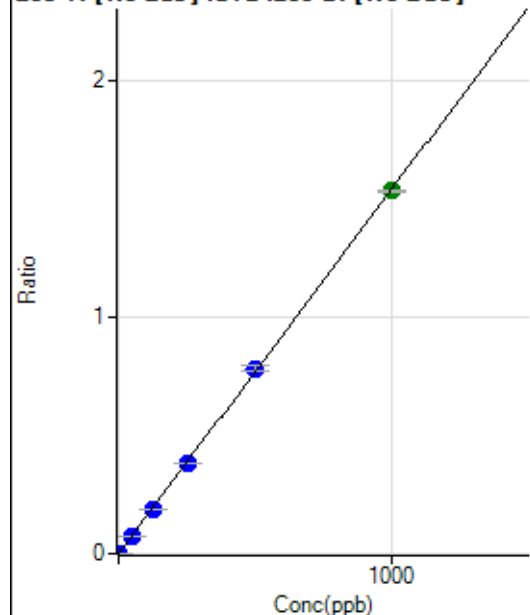
**164 Er [ No Gas ] No available calibration points**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS   | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|-------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 19.44 |       | P        | 49.5 |
| 2 | <input type="checkbox"/> |       |            |       |       |          |      |
| 3 | <input type="checkbox"/> |       |            | 47.22 |       | P        | 27.0 |
| 4 | <input type="checkbox"/> |       |            | 44.45 |       | P        | 39.0 |
| 5 | <input type="checkbox"/> |       |            | 38.89 |       | P        | 44.6 |
| 6 | <input type="checkbox"/> |       |            | 33.33 |       | P        | 0.0  |
| 7 | <input type="checkbox"/> |       |            | 52.78 |       | P        | 36.5 |
| 8 | <input type="checkbox"/> |       |            | 97.23 |       | P        | 35.7 |
| 9 | <input type="checkbox"/> |       |            | 97.23 |       | P        | 35.7 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS   | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|-------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 18.89 |       | P        | 27.0 |
| 2 | <input type="checkbox"/> |       |            |       |       |          |      |
| 3 | <input type="checkbox"/> |       |            | 30.00 |       | P        | 19.2 |
| 4 | <input type="checkbox"/> |       |            | 25.56 |       | P        | 30.1 |
| 5 | <input type="checkbox"/> |       |            | 8.89  |       | P        | 78.1 |
| 6 | <input type="checkbox"/> |       |            | 15.56 |       | P        | 32.7 |
| 7 | <input type="checkbox"/> |       |            | 25.55 |       | P        | 27.1 |
| 8 | <input type="checkbox"/> |       |            | 52.22 |       | P        | 20.5 |
| 9 | <input type="checkbox"/> |       |            | 45.55 |       | P        | 8.5  |

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 191.68      | 0.0000 | P    | 19.0 |
| 2 | <input type="checkbox"/> | 0.100    |            |             |        |      |      |
| 3 | <input type="checkbox"/> | 1.000    | 0.894      | 11377.55    | 0.0014 | P    | 1.3  |
| 4 | <input type="checkbox"/> | 50.000   | 48.486     | 609050.30   | 0.0747 | P    | 1.1  |
| 5 | <input type="checkbox"/> | 125.000  | 123.413    | 1532655.37  | 0.1901 | P    | 0.7  |
| 6 | <input type="checkbox"/> | 250.000  | 248.350    | 3034132.99  | 0.3826 | P    | 1.1  |
| 7 | <input type="checkbox"/> | 500.000  | 509.059    | 6052591.15  | 0.7842 | P    | 2.9  |
| 8 | <input type="checkbox"/> | 1000.000 | 996.158    | 11866406.51 | 1.5345 | A    | 0.3  |
| 9 | <input type="checkbox"/> |          |            | 6154.49     | 0.0009 | P    | 5.8  |

$$y = 0.0015 * x + 2.3816E-005$$

$$R = 0.9999$$

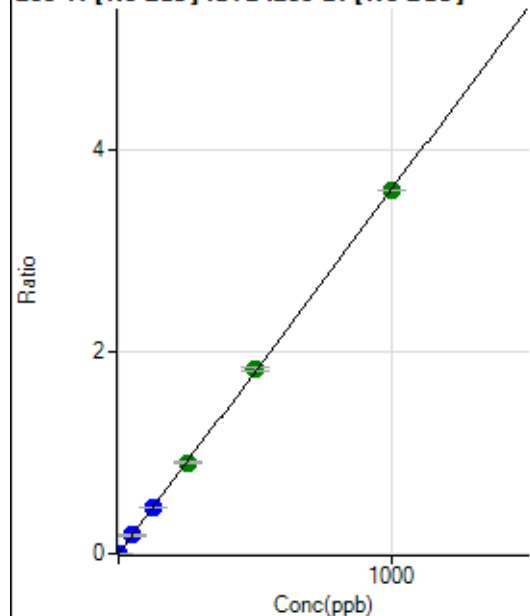
$$DL = 0.008805$$

$$BEC = 0.01546$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 544.49      | 0.0001 | P    | 15.0 |
| 2 | <input type="checkbox"/> | 0.100    |            |             |        |      |      |
| 3 | <input type="checkbox"/> | 1.000    | 0.900      | 26981.03    | 0.0033 | P    | 1.2  |
| 4 | <input type="checkbox"/> | 50.000   | 50.166     | 1479319.78  | 0.1815 | P    | 0.8  |
| 5 | <input type="checkbox"/> | 125.000  | 126.741    | 3694757.90  | 0.4583 | P    | 0.4  |
| 6 | <input type="checkbox"/> | 250.000  | 250.202    | 7175423.94  | 0.9047 | A    | 0.9  |
| 7 | <input type="checkbox"/> | 500.000  | 507.024    | 14152171.50 | 1.8333 | A    | 2.4  |
| 8 | <input type="checkbox"/> | 1000.000 | 996.211    | 27855970.07 | 3.6021 | A    | 0.1  |
| 9 | <input type="checkbox"/> |          |            | 15287.22    | 0.0022 | P    | 5.2  |

$$y = 0.0036 * x + 6.7643E-005$$

$$R = 1.0000$$

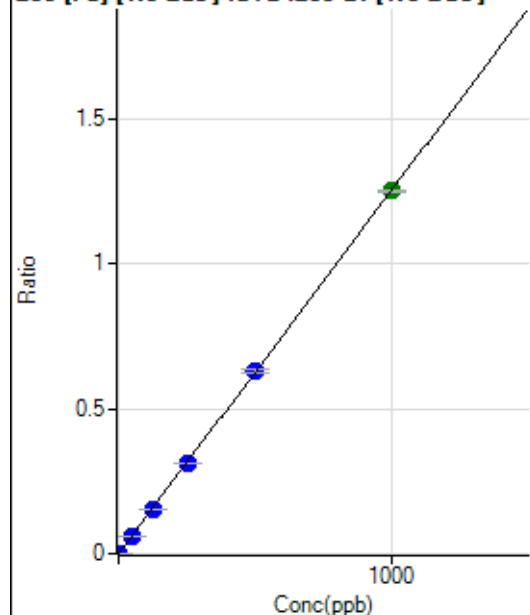
$$DL = 0.008433$$

$$BEC = 0.01871$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD |
|---|--------------------------|----------|------------|------------|--------|------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 1624.23    | 0.0002 | P    | 7.7 |
| 2 | <input type="checkbox"/> | 0.100    |            |            |        |      |     |
| 3 | <input type="checkbox"/> | 1.000    | 0.879      | 10589.68   | 0.0013 | P    | 2.4 |
| 4 | <input type="checkbox"/> | 50.000   | 48.833     | 501060.58  | 0.0615 | P    | 0.7 |
| 5 | <input type="checkbox"/> | 125.000  | 123.111    | 1246563.97 | 0.1546 | P    | 0.3 |
| 6 | <input type="checkbox"/> | 250.000  | 248.068    | 2469581.39 | 0.3114 | P    | 0.7 |
| 7 | <input type="checkbox"/> | 500.000  | 503.755    | 4879299.24 | 0.6321 | P    | 2.7 |
| 8 | <input type="checkbox"/> | 1000.000 | 998.900    | 9691576.37 | 1.2532 | A    | 0.5 |
| 9 | <input type="checkbox"/> |          |            | 20052.54   | 0.0029 | P    | 0.8 |

$$y = 0.0013 * x + 2.0179E-004$$

$$R = 1.0000$$

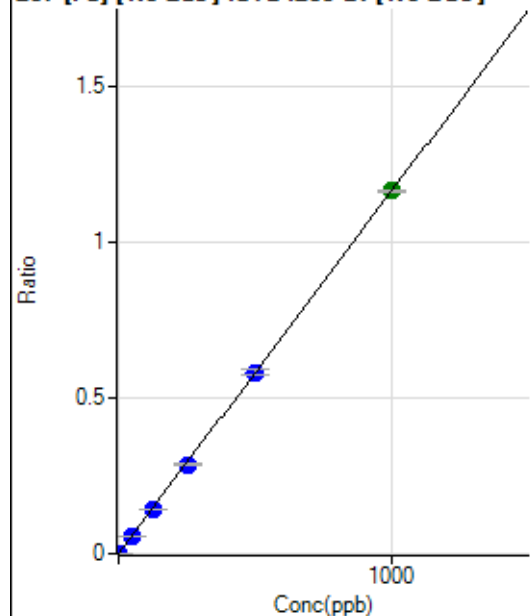
$$DL = 0.03729$$

$$BEC = 0.1609$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD |
|---|--------------------------|----------|------------|------------|--------|------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 1540.88    | 0.0002 | P    | 9.6 |
| 2 | <input type="checkbox"/> | 0.100    |            |            |        |      |     |
| 3 | <input type="checkbox"/> | 1.000    | 0.854      | 9631.50    | 0.0012 | P    | 1.2 |
| 4 | <input type="checkbox"/> | 50.000   | 48.423     | 461297.12  | 0.0566 | P    | 0.4 |
| 5 | <input type="checkbox"/> | 125.000  | 121.923    | 1146128.83 | 0.1422 | P    | 0.2 |
| 6 | <input type="checkbox"/> | 250.000  | 245.983    | 2273391.89 | 0.2866 | P    | 0.8 |
| 7 | <input type="checkbox"/> | 500.000  | 500.886    | 4503797.61 | 0.5835 | P    | 2.9 |
| 8 | <input type="checkbox"/> | 1000.000 | 1001.025   | 9016341.87 | 1.1659 | A    | 0.3 |
| 9 | <input type="checkbox"/> |          |            | 17549.04   | 0.0025 | P    | 1.4 |

$$y = 0.0012 * x + 1.9144E-004$$

$$R = 1.0000$$

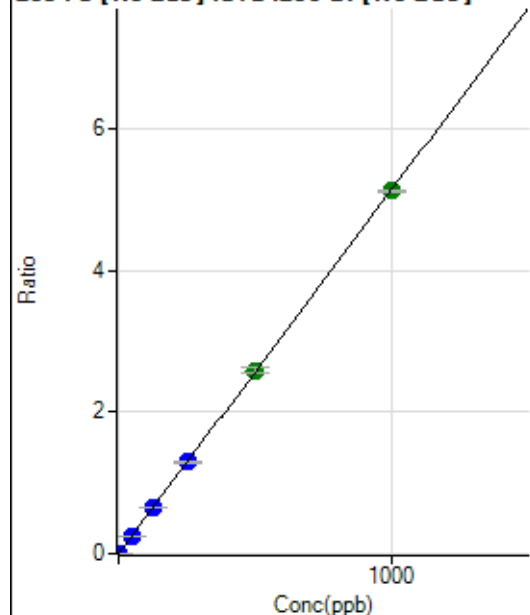
$$DL = 0.04759$$

$$BEC = 0.1644$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|-------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 6734.21     | 0.0008 | P   | 2.3 |
| 2 | <input type="checkbox"/> | 0.100    |            |             |        |     |     |
| 3 | <input type="checkbox"/> | 1.000    | 0.885      | 43721.99    | 0.0054 | P   | 0.3 |
| 4 | <input type="checkbox"/> | 50.000   | 49.082     | 2063946.92  | 0.2532 | P   | 0.4 |
| 5 | <input type="checkbox"/> | 125.000  | 124.220    | 5154724.06  | 0.6394 | P   | 0.2 |
| 6 | <input type="checkbox"/> | 250.000  | 251.436    | 10258261.48 | 1.2934 | P   | 0.7 |
| 7 | <input type="checkbox"/> | 500.000  | 504.761    | 20037121.52 | 2.5958 | A   | 2.6 |
| 8 | <input type="checkbox"/> | 1000.000 | 997.404    | 39659120.79 | 5.1284 | A   | 0.4 |
| 9 | <input type="checkbox"/> |          |            | 80679.34    | 0.0115 | P   | 0.7 |

$$y = 0.0051 * x + 8.3667E-004$$

$$R = 1.0000$$

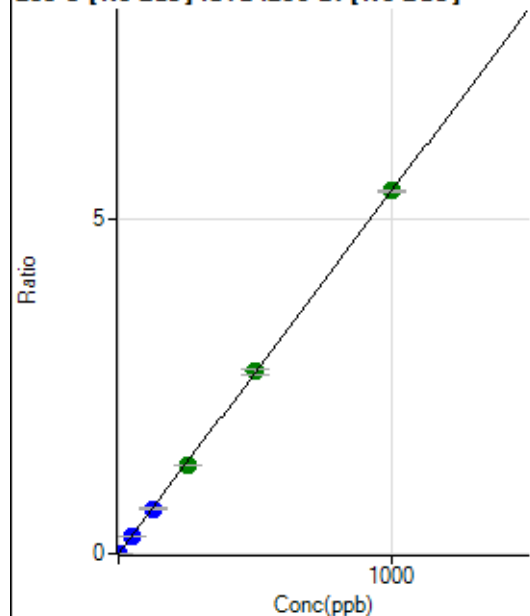
$$DL = 0.01117$$

$$BEC = 0.1627$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 430.59      | 0.0001 | P   | 16.5 |
| 2 | <input type="checkbox"/> | 0.100    |            |             |        |     |      |
| 3 | <input type="checkbox"/> | 1.000    | 0.861      | 38399.21    | 0.0047 | P   | 0.6  |
| 4 | <input type="checkbox"/> | 50.000   | 48.308     | 2137905.15  | 0.2622 | P   | 0.8  |
| 5 | <input type="checkbox"/> | 125.000  | 124.222    | 5435345.91  | 0.6742 | P   | 0.8  |
| 6 | <input type="checkbox"/> | 250.000  | 245.250    | 10557059.09 | 1.3311 | A   | 0.5  |
| 7 | <input type="checkbox"/> | 500.000  | 501.777    | 21023340.92 | 2.7234 | A   | 2.4  |
| 8 | <input type="checkbox"/> | 1000.000 | 1000.481   | 41991838.79 | 5.4300 | A   | 0.2  |
| 9 | <input type="checkbox"/> |          |            | 11872.62    | 0.0017 | P   | 5.0  |

$$y = 0.0054 * x + 5.3501E-005$$

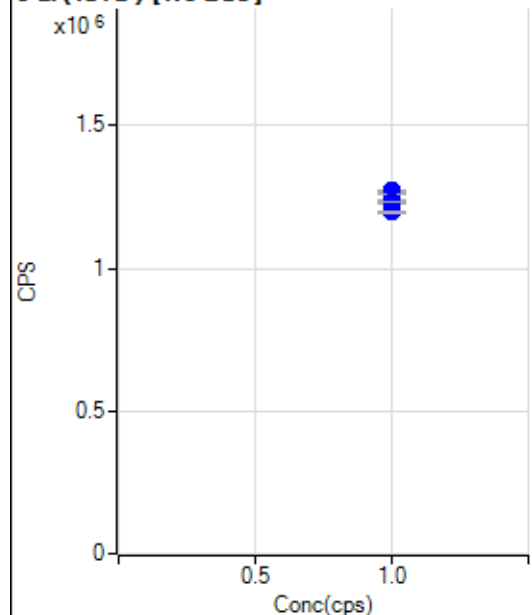
$$R = 1.0000$$

$$DL = 0.004887$$

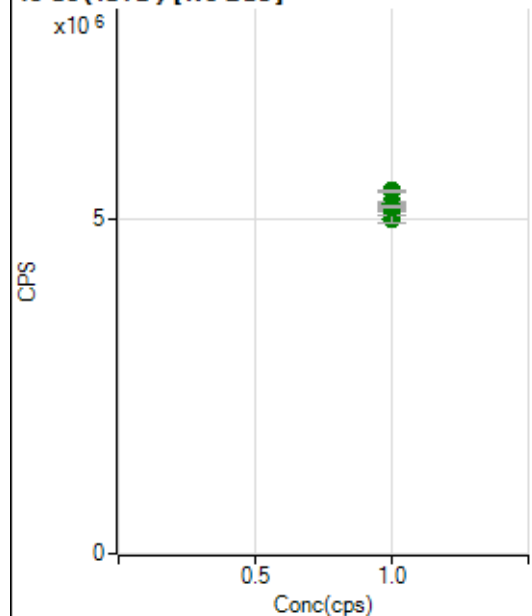
$$BEC = 0.009858$$

Weight: &lt;None&gt;

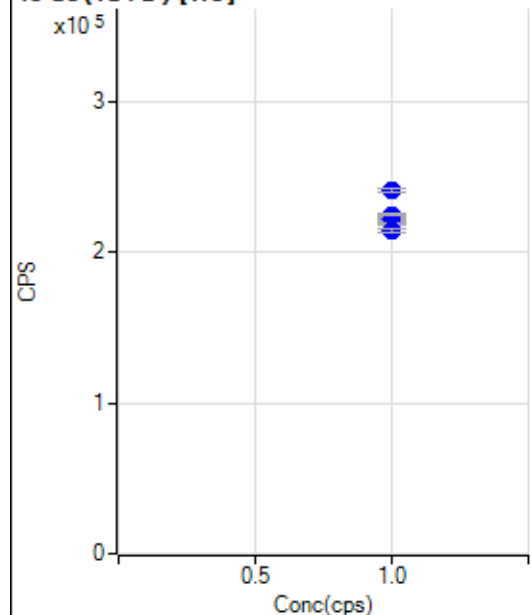
Min Conc: 0

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

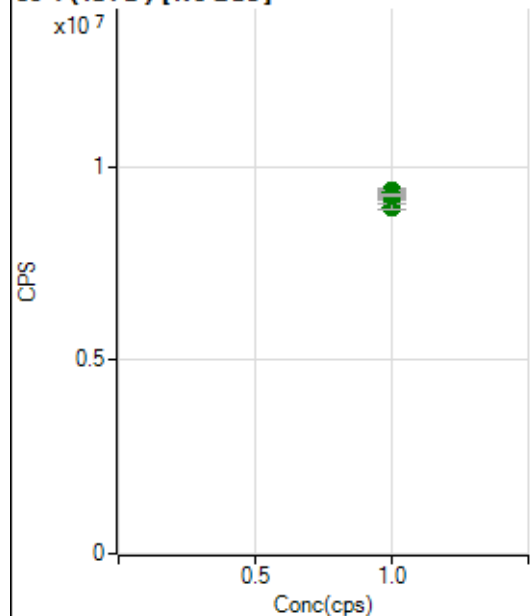
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 1268572.24 |       | P        | 0.1 |
| 2 | <input type="checkbox"/> | 1.000 |            |            |       |          |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 1267951.88 |       | P        | 0.3 |
| 4 | <input type="checkbox"/> | 1.000 |            | 1271102.37 |       | P        | 0.5 |
| 5 | <input type="checkbox"/> | 1.000 |            | 1265446.98 |       | P        | 0.5 |
| 6 | <input type="checkbox"/> | 1.000 |            | 1258301.59 |       | P        | 0.2 |
| 7 | <input type="checkbox"/> | 1.000 |            | 1232979.33 |       | P        | 1.1 |
| 8 | <input type="checkbox"/> | 1.000 |            | 1231883.37 |       | P        | 0.3 |
| 9 | <input type="checkbox"/> | 1.000 |            | 1197845.63 |       | P        | 0.4 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 5265656.58 |       | A        | 0.4 |
| 2 | <input type="checkbox"/> | 1.000 |            |            |       |          |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 5161167.61 |       | A        | 0.6 |
| 4 | <input type="checkbox"/> | 1.000 |            | 5217409.53 |       | A        | 0.5 |
| 5 | <input type="checkbox"/> | 1.000 |            | 5243206.50 |       | A        | 1.3 |
| 6 | <input type="checkbox"/> | 1.000 |            | 5136520.08 |       | A        | 0.5 |
| 7 | <input type="checkbox"/> | 1.000 |            | 5019663.70 |       | A        | 2.2 |
| 8 | <input type="checkbox"/> | 1.000 |            | 5189614.09 |       | A        | 0.7 |
| 9 | <input type="checkbox"/> | 1.000 |            | 5434021.69 |       | A        | 0.4 |

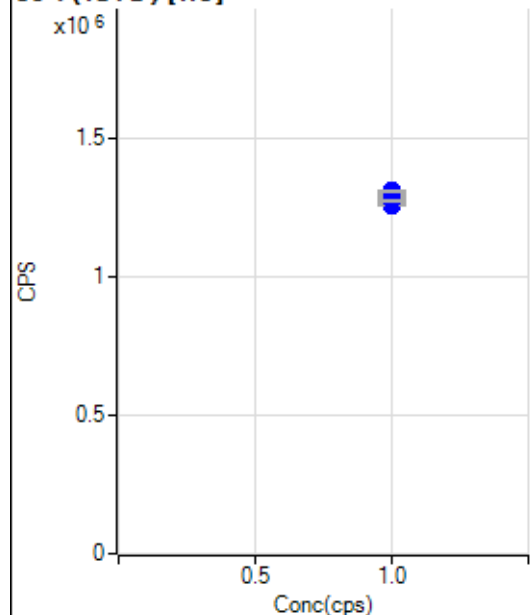
**45 Sc (ISTD) [He]**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS       | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-----------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 224646.06 |       | P        | 0.7 |
| 2 | <input type="checkbox"/> | 1.000 |            |           |       |          |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 220889.54 |       | P        | 0.4 |
| 4 | <input type="checkbox"/> | 1.000 |            | 224559.00 |       | P        | 0.2 |
| 5 | <input type="checkbox"/> | 1.000 |            | 220238.40 |       | P        | 1.6 |
| 6 | <input type="checkbox"/> | 1.000 |            | 215021.45 |       | P        | 1.0 |
| 7 | <input type="checkbox"/> | 1.000 |            | 222272.07 |       | P        | 2.0 |
| 8 | <input type="checkbox"/> | 1.000 |            | 225295.43 |       | P        | 0.6 |
| 9 | <input type="checkbox"/> | 1.000 |            | 241049.20 |       | P        | 1.1 |

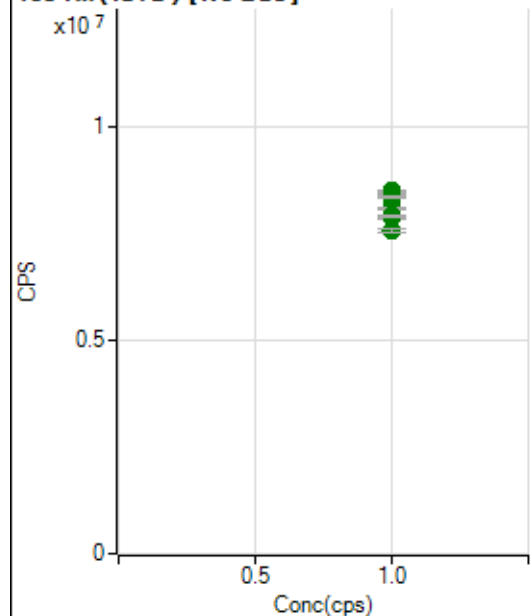
**89 Y (ISTD) [No Gas]**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 9334981.25 |       | A        | 1.0 |
| 2 | <input type="checkbox"/> | 1.000 |            |            |       |          |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 9368074.93 |       | A        | 1.1 |
| 4 | <input type="checkbox"/> | 1.000 |            | 9302950.70 |       | A        | 0.7 |
| 5 | <input type="checkbox"/> | 1.000 |            | 9340464.79 |       | A        | 1.1 |
| 6 | <input type="checkbox"/> | 1.000 |            | 9174009.31 |       | A        | 0.4 |
| 7 | <input type="checkbox"/> | 1.000 |            | 8955630.14 |       | A        | 1.8 |
| 8 | <input type="checkbox"/> | 1.000 |            | 9240687.99 |       | A        | 0.4 |
| 9 | <input type="checkbox"/> | 1.000 |            | 9237417.22 |       | A        | 0.5 |

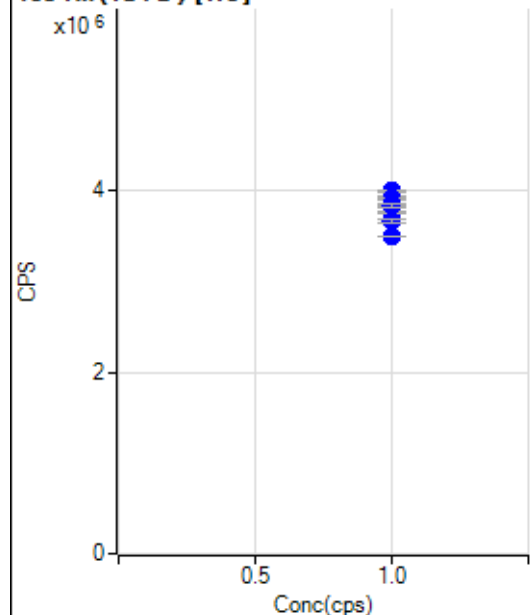


**89 Y(ISTD) [He]**

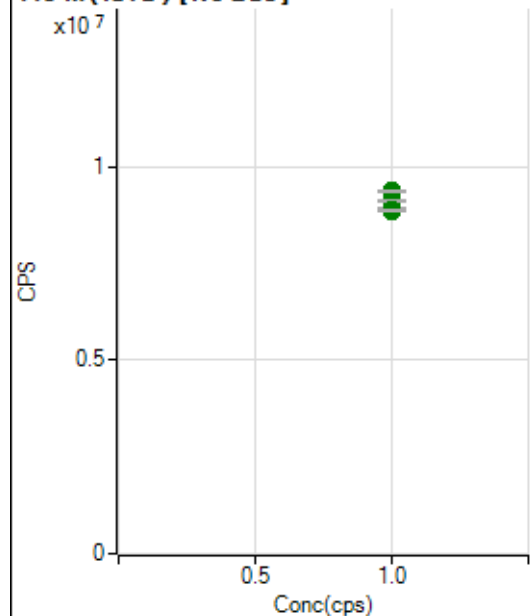
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 1304464.73 |       | P        | 0.6 |
| 2 | <input type="checkbox"/> | 1.000 |            |            |       |          |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 1281398.19 |       | P        | 0.6 |
| 4 | <input type="checkbox"/> | 1.000 |            | 1290590.81 |       | P        | 0.1 |
| 5 | <input type="checkbox"/> | 1.000 |            | 1277768.60 |       | P        | 0.5 |
| 6 | <input type="checkbox"/> | 1.000 |            | 1261146.41 |       | P        | 0.7 |
| 7 | <input type="checkbox"/> | 1.000 |            | 1304107.55 |       | P        | 1.2 |
| 8 | <input type="checkbox"/> | 1.000 |            | 1275237.55 |       | P        | 0.6 |
| 9 | <input type="checkbox"/> | 1.000 |            | 1311031.91 |       | P        | 0.5 |

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

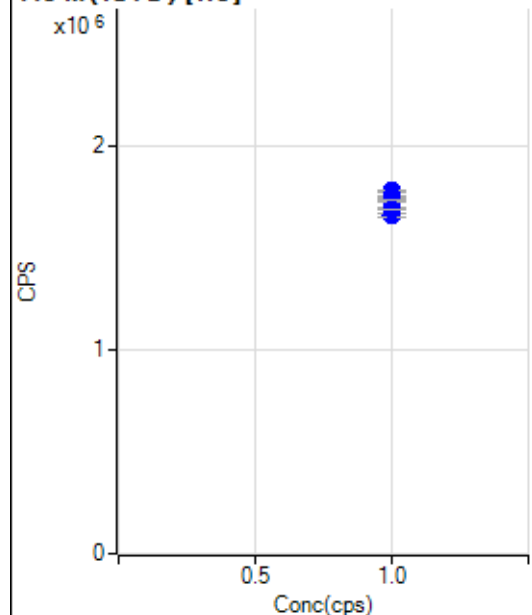
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 8447013.90 |       | A        | 0.3 |
| 2 | <input type="checkbox"/> | 1.000 |            |            |       |          |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 8487362.51 |       | A        | 0.2 |
| 4 | <input type="checkbox"/> | 1.000 |            | 8407350.54 |       | A        | 0.6 |
| 5 | <input type="checkbox"/> | 1.000 |            | 8335879.79 |       | A        | 0.6 |
| 6 | <input type="checkbox"/> | 1.000 |            | 8090619.28 |       | A        | 0.7 |
| 7 | <input type="checkbox"/> | 1.000 |            | 7861469.54 |       | A        | 1.4 |
| 8 | <input type="checkbox"/> | 1.000 |            | 7899534.99 |       | A        | 0.6 |
| 9 | <input type="checkbox"/> | 1.000 |            | 7546865.71 |       | A        | 1.0 |

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

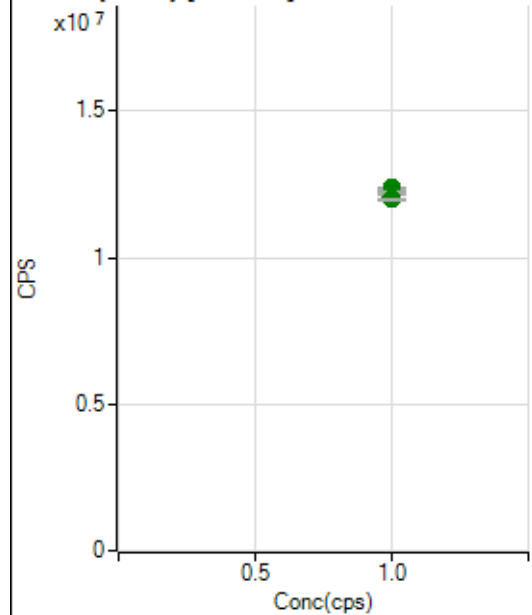
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 3996236.71 |       | P        | 0.9 |
| 2 | <input type="checkbox"/> | 1.000 |            |            |       |          |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 3924314.46 |       | P        | 0.7 |
| 4 | <input type="checkbox"/> | 1.000 |            | 3915770.60 |       | P        | 0.4 |
| 5 | <input type="checkbox"/> | 1.000 |            | 3846907.82 |       | P        | 0.7 |
| 6 | <input type="checkbox"/> | 1.000 |            | 3758707.62 |       | P        | 0.8 |
| 7 | <input type="checkbox"/> | 1.000 |            | 3830163.69 |       | P        | 0.8 |
| 8 | <input type="checkbox"/> | 1.000 |            | 3670481.68 |       | P        | 1.1 |
| 9 | <input type="checkbox"/> | 1.000 |            | 3494206.86 |       | P        | 0.5 |

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

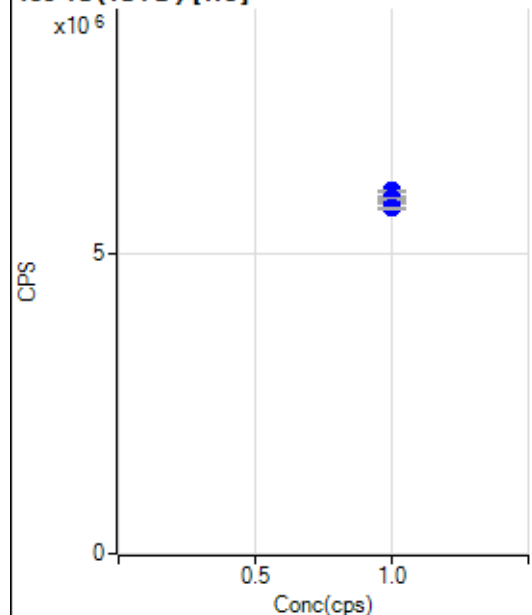
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 9363969.72 |       | A        | 0.2 |
| 2 | <input type="checkbox"/> | 1.000 |            |            |       |          |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 9342796.60 |       | A        | 0.6 |
| 4 | <input type="checkbox"/> | 1.000 |            | 9364211.96 |       | A        | 0.7 |
| 5 | <input type="checkbox"/> | 1.000 |            | 9338752.82 |       | A        | 0.4 |
| 6 | <input type="checkbox"/> | 1.000 |            | 9103793.48 |       | A        | 0.6 |
| 7 | <input type="checkbox"/> | 1.000 |            | 8897710.33 |       | A        | 1.0 |
| 8 | <input type="checkbox"/> | 1.000 |            | 8857326.02 |       | A        | 0.4 |
| 9 | <input type="checkbox"/> | 1.000 |            | 8863419.56 |       | A        | 0.2 |

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

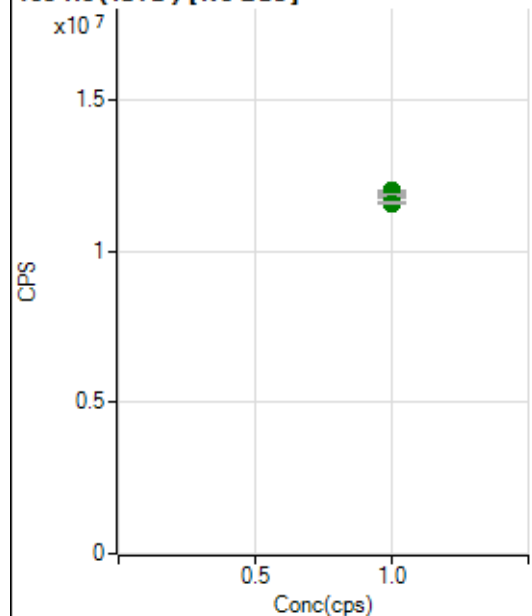
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 1780318.32 |       | P        | 0.5 |
| 2 | <input type="checkbox"/> | 1.000 |            |            |       |          |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 1755024.08 |       | P        | 0.4 |
| 4 | <input type="checkbox"/> | 1.000 |            | 1755456.22 |       | P        | 0.5 |
| 5 | <input type="checkbox"/> | 1.000 |            | 1733405.78 |       | P        | 0.9 |
| 6 | <input type="checkbox"/> | 1.000 |            | 1692849.98 |       | P        | 1.0 |
| 7 | <input type="checkbox"/> | 1.000 |            | 1730592.80 |       | P        | 0.4 |
| 8 | <input type="checkbox"/> | 1.000 |            | 1661694.74 |       | P        | 0.7 |
| 9 | <input type="checkbox"/> | 1.000 |            | 1690728.94 |       | P        | 0.3 |

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

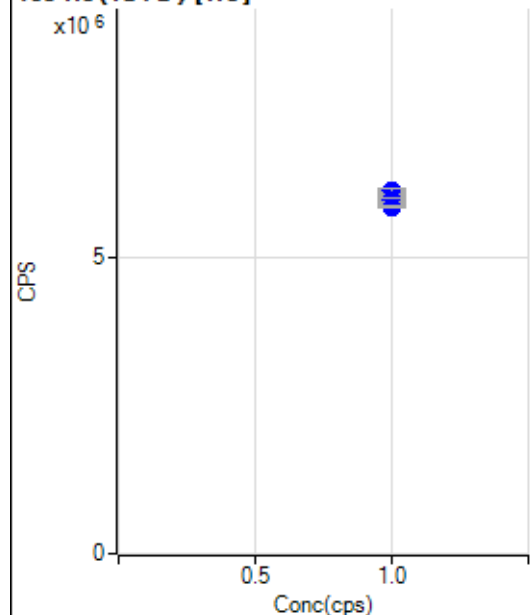
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 12185473.98 |       | A        | 0.6 |
| 2 | <input type="checkbox"/> | 1.000 |            |             |       |          |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 12379048.70 |       | A        | 0.5 |
| 4 | <input type="checkbox"/> | 1.000 |            | 12304918.43 |       | A        | 0.2 |
| 5 | <input type="checkbox"/> | 1.000 |            | 12376288.15 |       | A        | 0.4 |
| 6 | <input type="checkbox"/> | 1.000 |            | 12283889.82 |       | A        | 0.5 |
| 7 | <input type="checkbox"/> | 1.000 |            | 12052645.51 |       | A        | 1.3 |
| 8 | <input type="checkbox"/> | 1.000 |            | 12253064.40 |       | A        | 0.3 |
| 9 | <input type="checkbox"/> | 1.000 |            | 12002485.10 |       | A        | 0.5 |

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

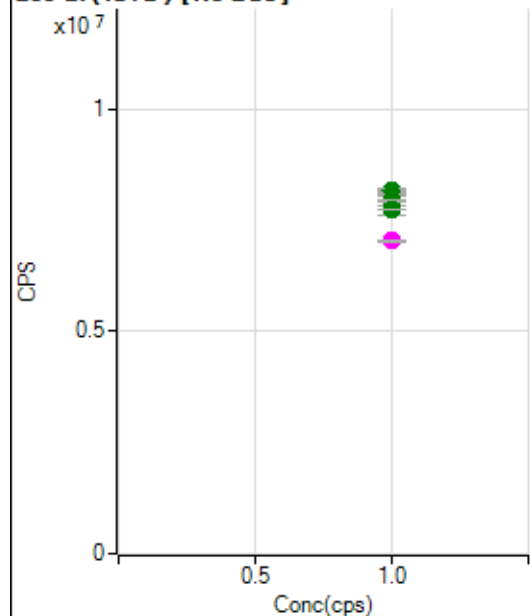
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 6025149.42 |       | P        | 0.5 |
| 2 | <input type="checkbox"/> | 1.000 |            |            |       |          |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 5916313.32 |       | P        | 0.6 |
| 4 | <input type="checkbox"/> | 1.000 |            | 5960815.88 |       | P        | 0.1 |
| 5 | <input type="checkbox"/> | 1.000 |            | 5925289.28 |       | P        | 0.5 |
| 6 | <input type="checkbox"/> | 1.000 |            | 5837634.77 |       | P        | 0.5 |
| 7 | <input type="checkbox"/> | 1.000 |            | 6040483.31 |       | P        | 0.6 |
| 8 | <input type="checkbox"/> | 1.000 |            | 5911704.77 |       | P        | 0.9 |
| 9 | <input type="checkbox"/> | 1.000 |            | 5748483.80 |       | P        | 0.1 |

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

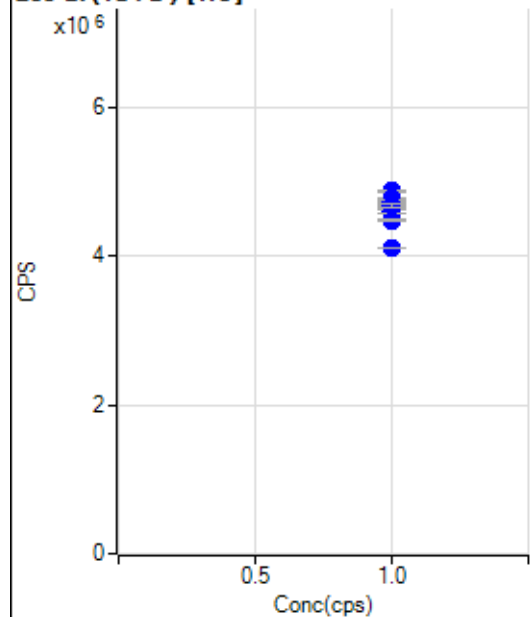
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 11838945.93 |       | A        | 0.3 |
| 2 | <input type="checkbox"/> | 1.000 |            |             |       |          |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 11871929.00 |       | A        | 0.7 |
| 4 | <input type="checkbox"/> | 1.000 |            | 11917198.88 |       | A        | 0.8 |
| 5 | <input type="checkbox"/> | 1.000 |            | 12007886.81 |       | A        | 0.3 |
| 6 | <input type="checkbox"/> | 1.000 |            | 11827154.95 |       | A        | 0.6 |
| 7 | <input type="checkbox"/> | 1.000 |            | 11661017.28 |       | A        | 1.6 |
| 8 | <input type="checkbox"/> | 1.000 |            | 11883420.75 |       | A        | 0.2 |
| 9 | <input type="checkbox"/> | 1.000 |            | 11608185.50 |       | A        | 0.7 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 6099379.08 |       | P        | 0.4 |
| 2 | <input type="checkbox"/> | 1.000 |            |            |       |          |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 5981309.49 |       | P        | 0.2 |
| 4 | <input type="checkbox"/> | 1.000 |            | 6029597.13 |       | P        | 0.2 |
| 5 | <input type="checkbox"/> | 1.000 |            | 6001355.60 |       | P        | 0.8 |
| 6 | <input type="checkbox"/> | 1.000 |            | 5918864.43 |       | P        | 0.4 |
| 7 | <input type="checkbox"/> | 1.000 |            | 6109973.59 |       | P        | 1.3 |
| 8 | <input type="checkbox"/> | 1.000 |            | 5958184.29 |       | P        | 0.8 |
| 9 | <input type="checkbox"/> | 1.000 |            | 5842828.59 |       | P        | 0.2 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 8048741.41 |       | A        | 0.1 |
| 2 | <input type="checkbox"/> | 1.000 |            |            |       |          |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 8120160.85 |       | A        | 0.8 |
| 4 | <input type="checkbox"/> | 1.000 |            | 8152871.13 |       | A        | 1.0 |
| 5 | <input type="checkbox"/> | 1.000 |            | 8061340.92 |       | A        | 0.1 |
| 6 | <input type="checkbox"/> | 1.000 |            | 7931173.15 |       | A        | 0.6 |
| 7 | <input type="checkbox"/> | 1.000 |            | 7722643.22 |       | A        | 2.7 |
| 8 | <input type="checkbox"/> | 1.000 |            | 7733234.12 |       | A        | 0.3 |
| 9 | <input type="checkbox"/> | 1.000 |            | 7033343.72 |       | M        | 0.6 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 4873202.08 |       | P        | 0.7 |
| 2 | <input type="checkbox"/> | 1.000 |            |            |       |          |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 4743273.37 |       | P        | 0.2 |
| 4 | <input type="checkbox"/> | 1.000 |            | 4770095.07 |       | P        | 0.0 |
| 5 | <input type="checkbox"/> | 1.000 |            | 4714026.91 |       | P        | 1.5 |
| 6 | <input type="checkbox"/> | 1.000 |            | 4598255.31 |       | P        | 0.6 |
| 7 | <input type="checkbox"/> | 1.000 |            | 4675081.70 |       | P        | 1.1 |
| 8 | <input type="checkbox"/> | 1.000 |            | 4478572.89 |       | P        | 0.7 |
| 9 | <input type="checkbox"/> | 1.000 |            | 4111143.30 |       | P        | 0.2 |

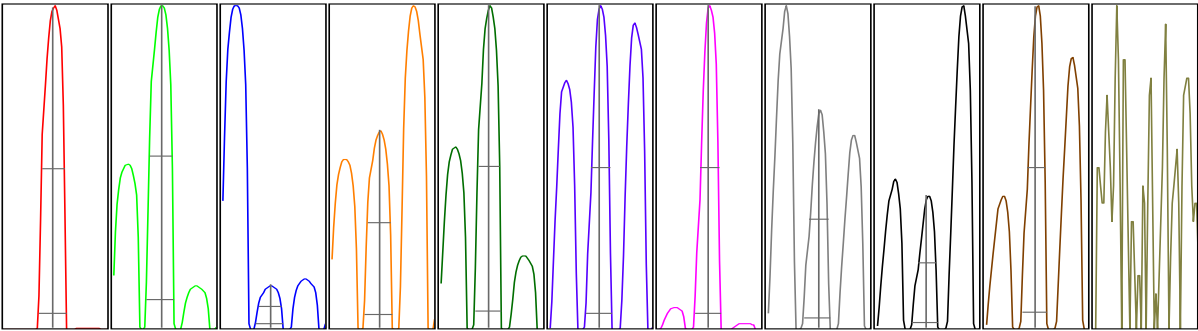
US EPA Tune Check Sample Report

Batch Folder D:\ICP-MS Data\P7061917.b  
Report Comment  
Instrument Name G8403A JP14410463

| [No Gas] |                 |                  |                    |                |  |
|----------|-----------------|------------------|--------------------|----------------|--|
| Mass     | Count<br>(Mean) | RSD%<br>(Actual) | RSD%<br>(Required) | RSD%<br>(Flag) |  |
| 9        | 7956            | 0.39             | 5.00               |                |  |
| 24       | 123456          | 0.32             | 5.00               |                |  |
| 25       | 16477           | 0.47             | 5.00               |                |  |
| 26       | 19418           | 0.33             | 5.00               |                |  |
| 59       | 90333           | 0.31             | 5.00               |                |  |
| 113      | 13391           | 0.46             | 5.00               |                |  |
| 115      | 187922          | 0.42             | 5.00               |                |  |
| 206      | 37966           | 0.55             | 5.00               |                |  |
| 207      | 33604           | 0.62             | 5.00               |                |  |
| 208      | 81453           | 0.57             | 5.00               |                |  |
| 220      | 0               | 56.52            |                    |                |  |

| Mass | Replicate 1<br>Count | Replicate 2<br>Count | Replicate 3<br>Count | Replicate 4<br>Count | Replicate 5<br>Count |
|------|----------------------|----------------------|----------------------|----------------------|----------------------|
| 9    | 7934                 | 7972                 | 7914                 | 7968                 | 7992                 |
| 24   | 123012               | 123444               | 123224               | 123559               | 124043               |
| 25   | 16374                | 16486                | 16434                | 16575                | 16515                |
| 26   | 19317                | 19442                | 19404                | 19437                | 19490                |
| 59   | 89901                | 90339                | 90270                | 90637                | 90516                |
| 113  | 13413                | 13396                | 13421                | 13440                | 13283                |
| 115  | 187561               | 189014               | 186949               | 188337               | 187749               |
| 206  | 37692                | 37932                | 38077                | 38244                | 37887                |
| 207  | 33252                | 33601                | 33798                | 33668                | 33703                |
| 208  | 80852                | 81380                | 81201                | 81922                | 81911                |
| 220  | 0                    | 1                    | 0                    | 0                    | 0                    |

Integration Time [sec] = 0.1



| Mass | Peak<br>Height | Axis<br>(Actual) | Axis<br>(Required) | Axis<br>(Flag) | Width-X%<br>(Actual) | Width-X%<br>(Required) | Width-<br>X%<br>(Flag) |
|------|----------------|------------------|--------------------|----------------|----------------------|------------------------|------------------------|
| 9    | 12800          | 8.95             | 8.9 - 9.1          |                | 0.819                | 0.900                  |                        |
| 24   | 194064         | 23.95            | 23.9 - 24.1        |                | 0.811                | 0.900                  |                        |
| 25   | 26030          | 24.95            | 24.9 - 25.1        |                | 0.798                | 0.900                  |                        |
| 26   | 30383          | 25.95            | 25.9 - 26.1        |                | 0.817                | 0.900                  |                        |
| 59   | 151478         | 58.95            | 58.9 - 59.1        |                | 0.782                | 0.900                  |                        |
| 113  | 25730          | 113.00           | 112.9 - 113.1      |                | 0.760                | 0.900                  |                        |
| 115  | 362114         | 115.00           | 114.9 - 115.1      |                | 0.765                | 0.900                  |                        |
| 206  | 75029          | 206.05           | 205.9 - 206.1      |                | 0.777                | 0.900                  |                        |
| 207  | 66256          | 207.00           | 206.9 - 207.1      |                | 0.740                | 0.900                  |                        |
| 208  | 160841         | 208.00           | 207.9 - 208.1      |                | 0.737                | 0.900                  |                        |
| 220  |                |                  | -                  |                |                      |                        |                        |

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

Tune Parameters

## Plasma Paramters ##

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

## Lenses Parameters ##

| ParameterName | Value  | Unit | ParameterName | Value | Unit | ParameterName | Value | Unit |
|---------------|--------|------|---------------|-------|------|---------------|-------|------|
| Extract 1     | 0.0    | V    | Omega Lens    | 9.2   | V    | Deflect       | 13.6  | V    |
| Extract 2     | -165.0 | V    | Cell Entrance | -30   | V    | Plate Bias    | -35   | V    |
| Omega Bias    | -80    | V    | Cell Exit     | -50   | V    |               |       |      |

## Cell Parameters ##

| ParameterName | Value | Unit   | ParameterName | Value | Unit | ParameterName         | Value | Unit |
|---------------|-------|--------|---------------|-------|------|-----------------------|-------|------|
| Use Gas       | No    |        | OctP Bias     | -8.0  | V    | Energy Discrimination | 5.0   | V    |
| He Flow       | 0.0   | mL/min | OctP RF       | 200   | V    |                       |       |      |

[He]

| Mass | Count<br>(Mean) | RSD%<br>(Actual) | RSD%<br>(Required) |
|------|-----------------|------------------|--------------------|
| 59   | 22396           | 2.14             |                    |
| 89   | 6277            | 2.59             |                    |
| 205  | 32669           | 2.40             |                    |

| Mass | Replicate 1<br>Count | Replicate 2<br>Count | Replicate 3<br>Count | Replicate 4<br>Count | Replicate 5<br>Count |
|------|----------------------|----------------------|----------------------|----------------------|----------------------|
| 59   | 22643                | 22597                | 22583                | 22618                | 21540                |
| 89   | 6405                 | 6304                 | 6350                 | 6330                 | 5993                 |
| 205  | 33263                | 32900                | 32990                | 32900                | 31290                |

Integration Time [sec] = 0.1

Tune Parameters

## Plasma Paramters ##

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

## Lenses Parameters ##

| ParameterName | Value  | Unit | ParameterName | Value | Unit | ParameterName | Value | Unit |
|---------------|--------|------|---------------|-------|------|---------------|-------|------|
| Extract 1     | 0.0    | V    | Omega Lens    | 9.4   | V    | Deflect       | 2.0   | V    |
| Extract 2     | -160.0 | V    | Cell Entrance | -40   | V    | Plate Bias    | -60   | V    |
| Omega Bias    | -75    | V    | Cell Exit     | -60   | V    |               |       |      |

## Cell Parameters ##

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