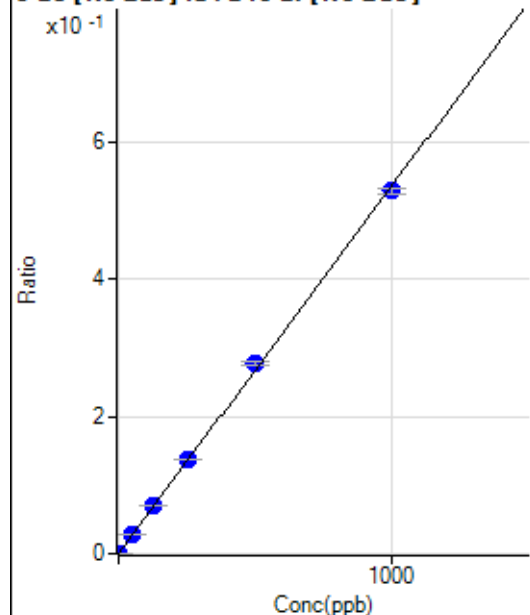


Batch Folder: C:\Agilent\ICPMH\1\DATA\P7080421EPA.b\  
Analysis File: P7080421EPA.batch.bin  
DA Date-Time: 2021-08-04 15:08:16  
Calibration Title:  
Calibration Method: External Calibration  
VIS Interpolation Fit:

| Level | Standard Data File | Sample Name | Acq. Date-Time      |
|-------|--------------------|-------------|---------------------|
| 1     | 003CALB.d          | S00         | 2021-08-04 11:34:04 |
| 2     | 005CAL.S.d         | S02         | 2021-08-04 11:40:12 |
| 3     | 006CAL.S.d         | S03         | 2021-08-04 11:43:15 |
| 4     | 007CAL.S.d         | S04         | 2021-08-04 11:46:18 |
| 5     | 008CAL.S.d         | S05         | 2021-08-04 11:49:19 |
| 6     | 009CAL.S.d         | S06         | 2021-08-04 11:52:18 |
| 7     | 010CAL.S.d         | S07         | 2021-08-04 11:55:11 |
| 8     | 011CAL.S.d         | S08         | 2021-08-04 11:58:04 |

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 70.37      | 0.0000 | P    | 36.5 |
| 2 | <input type="checkbox"/> | 1.000    | 1.000      | 1651.96    | 0.0006 | P    | 7.1  |
| 3 | <input type="checkbox"/> | 50.000   | 51.853     | 82770.28   | 0.0278 | P    | 1.8  |
| 4 | <input type="checkbox"/> | 125.000  | 129.909    | 200602.45  | 0.0696 | P    | 1.0  |
| 5 | <input type="checkbox"/> | 250.000  | 257.526    | 392495.55  | 0.1380 | P    | 1.1  |
| 6 | <input type="checkbox"/> | 500.000  | 519.477    | 736874.25  | 0.2784 | P    | 2.5  |
| 7 | <input type="checkbox"/> | 1000.000 | 987.674    | 1342416.45 | 0.5294 | P    | 1.9  |
| 8 | <input type="checkbox"/> |          |            | 266.67     | 0.0001 | P    | 5.4  |

$$y = 5.3595\text{E-}004 * x + 2.3825\text{E-}005$$

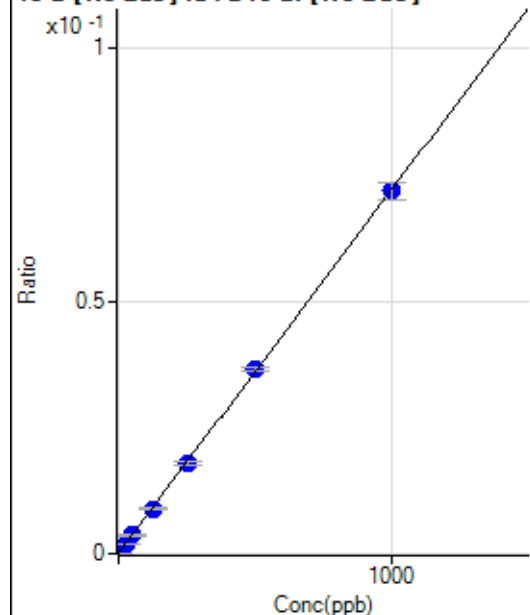
$$R = 0.9997$$

$$DL = 0.04869$$

$$BEC = 0.04445$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS       | Ratio  | Det. | RSD |
|---|--------------------------|----------|------------|-----------|--------|------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 325.01    | 0.0001 | P    | 8.8 |
| 2 | <input type="checkbox"/> | 25.000   | 24.777     | 5592.84   | 0.0019 | P    | 5.0 |
| 3 | <input type="checkbox"/> | 50.000   | 49.492     | 10920.86  | 0.0037 | P    | 7.3 |
| 4 | <input type="checkbox"/> | 125.000  | 122.618    | 25733.51  | 0.0089 | P    | 6.2 |
| 5 | <input type="checkbox"/> | 250.000  | 248.172    | 51075.37  | 0.0180 | P    | 4.1 |
| 6 | <input type="checkbox"/> | 500.000  | 506.801    | 96836.55  | 0.0366 | P    | 2.8 |
| 7 | <input type="checkbox"/> | 1000.000 | 997.385    | 182331.15 | 0.0719 | P    | 4.5 |
| 8 | <input type="checkbox"/> |          |            | 8986.21   | 0.0038 | P    | 9.2 |

$$y = 7.1948\text{E-}005 * x + 1.1000\text{E-}004$$

$$R = 1.0000$$

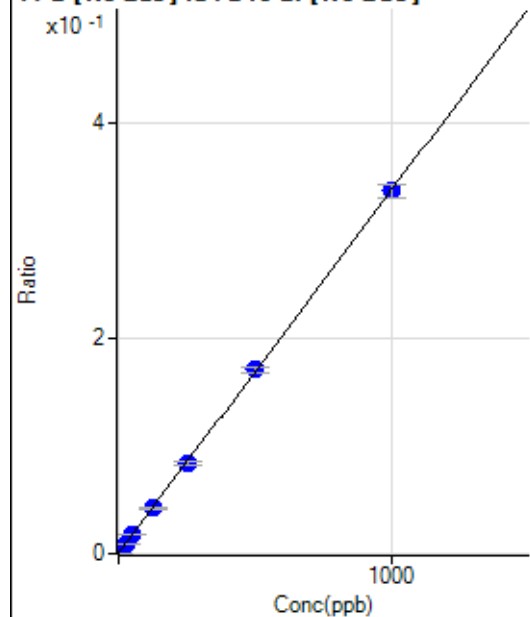
$$DL = 0.4037$$

$$BEC = 1.529$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS       | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|-----------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 1794.60   | 0.0006 | P   | 4.1 |
| 2 | <input type="checkbox"/> | 25.000   | 23.635     | 25279.96  | 0.0086 | P   | 5.2 |
| 3 | <input type="checkbox"/> | 50.000   | 49.846     | 51685.94  | 0.0174 | P   | 4.0 |
| 4 | <input type="checkbox"/> | 125.000  | 124.842    | 122683.51 | 0.0426 | P   | 4.3 |
| 5 | <input type="checkbox"/> | 250.000  | 247.118    | 237961.57 | 0.0837 | P   | 4.1 |
| 6 | <input type="checkbox"/> | 500.000  | 505.809    | 451985.28 | 0.1707 | P   | 2.7 |
| 7 | <input type="checkbox"/> | 1000.000 | 997.878    | 852873.81 | 0.3362 | P   | 3.9 |
| 8 | <input type="checkbox"/> |          |            | 41992.39  | 0.0176 | P   | 7.6 |

$$y = 3.3629\text{E-}004 * x + 6.0754\text{E-}004$$

$$R = 1.0000$$

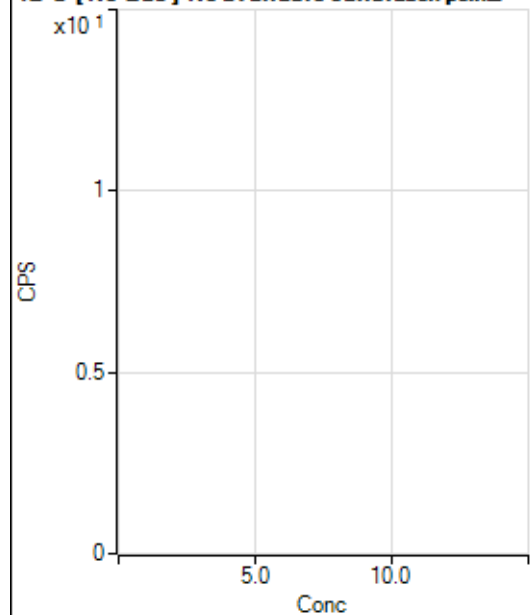
$$DL = 0.2234$$

$$BEC = 1.807$$

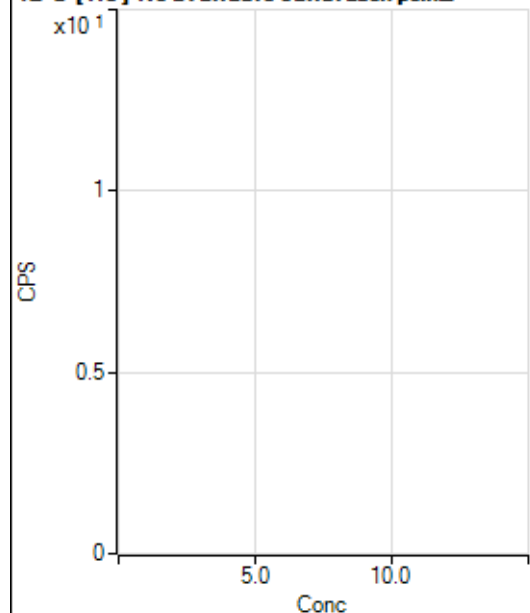
Weight: &lt;None&gt;

Min Conc: 0

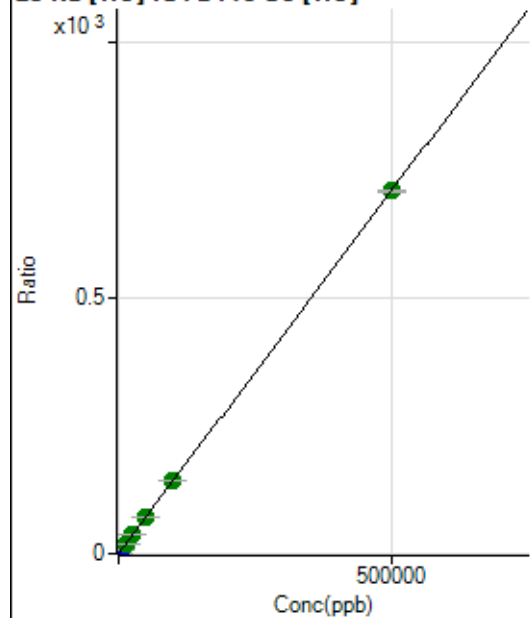
12 C [No Gas] No available calibration points



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

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

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

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio    | Det | RSD |
|---|--------------------------|-----------|------------|-------------|----------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 14017.96    | 0.0388   | P   | 1.6 |
| 2 | <input type="checkbox"/> | 500.000   | 489.778    | 266847.08   | 0.7333   | P   | 0.8 |
| 3 | <input type="checkbox"/> | 5000.000  | 5018.823   | 2614420.65  | 7.1563   | P   | 2.4 |
| 4 | <input type="checkbox"/> | 12500.000 | 12729.165  | 6220142.63  | 18.0909  | A   | 0.2 |
| 5 | <input type="checkbox"/> | 25000.000 | 25630.408  | 11986335.86 | 36.3871  | A   | 0.1 |
| 6 | <input type="checkbox"/> | 50000.000 | 49882.545  | 22396142.17 | 70.7808  | A   | 1.7 |
| 7 | <input type="checkbox"/> | 100000.00 | 100972.60  | 42161258.58 | 143.2353 | A   | 1.3 |
| 8 | <input type="checkbox"/> | 500000.00 | 499779.79  | 217342946.5 | 708.8127 | A   | 0.3 |

$$y = 0.0014 * x + 0.0388$$

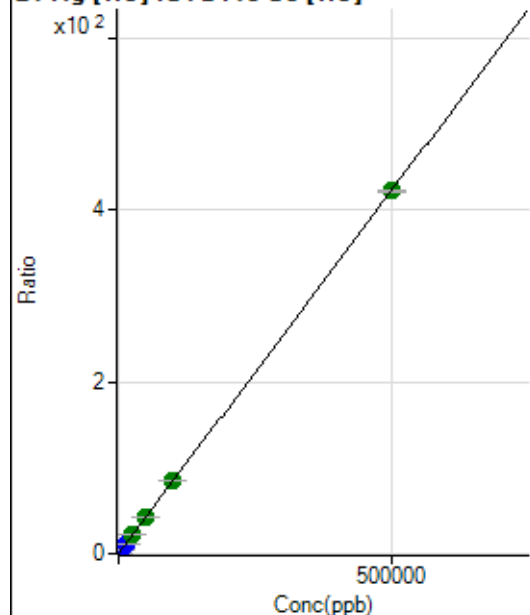
$$R = 1.0000$$

$$DL = 1.292$$

$$BEC = 27.33$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio    | Det | RSD |
|---|--------------------------|-----------|------------|-------------|----------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 605.58      | 0.0017   | P   | 7.0 |
| 2 | <input type="checkbox"/> | 500.000   | 481.862    | 148895.17   | 0.4092   | P   | 0.9 |
| 3 | <input type="checkbox"/> | 5000.000  | 5069.474   | 1566856.78  | 4.2889   | P   | 2.4 |
| 4 | <input type="checkbox"/> | 12500.000 | 12939.684  | 3762998.70  | 10.9446  | P   | 0.2 |
| 5 | <input type="checkbox"/> | 25000.000 | 25685.954  | 7156002.59  | 21.7240  | A   | 0.9 |
| 6 | <input type="checkbox"/> | 50000.000 | 50144.284  | 13418408.55 | 42.4082  | A   | 2.0 |
| 7 | <input type="checkbox"/> | 100000.00 | 101198.65  | 25192630.95 | 85.5843  | A   | 1.2 |
| 8 | <input type="checkbox"/> | 500000.00 | 499699.87  | 129580425.1 | 422.5924 | A   | 0.5 |

$$y = 8.4569\text{E-}004 * x + 0.0017$$

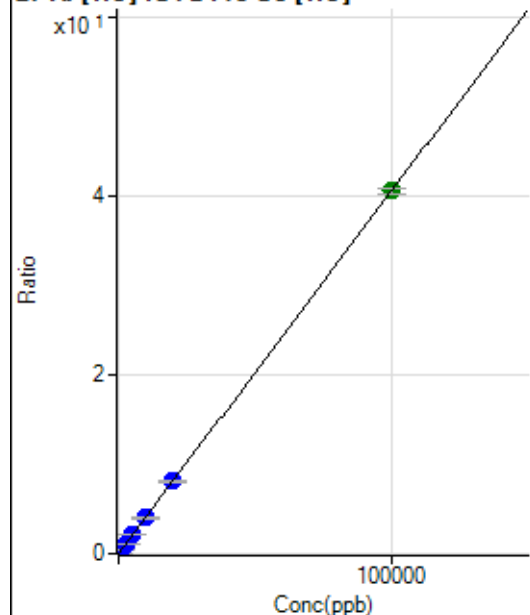
$$R = 1.0000$$

$$DL = 0.4169$$

$$BEC = 1.98$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio   | Det | RSD   |
|---|--------------------------|-----------|------------|-------------|---------|-----|-------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 330.99      | 0.0009  | P   | 108.4 |
| 2 | <input type="checkbox"/> | 20.000    | 18.032     | 2992.04     | 0.0082  | P   | 9.9   |
| 3 | <input type="checkbox"/> | 1000.000  | 989.100    | 146759.71   | 0.4017  | P   | 2.5   |
| 4 | <input type="checkbox"/> | 2500.000  | 2544.145   | 354775.92   | 1.0318  | P   | 0.3   |
| 5 | <input type="checkbox"/> | 5000.000  | 5090.515   | 679782.15   | 2.0637  | P   | 0.8   |
| 6 | <input type="checkbox"/> | 10000.000 | 9851.152   | 1263374.89  | 3.9927  | P   | 1.3   |
| 7 | <input type="checkbox"/> | 20000.000 | 19926.938  | 2376915.68  | 8.0756  | P   | 1.5   |
| 8 | <input type="checkbox"/> | 100000.00 | 100023.97  | 12429065.64 | 40.5318 | A   | 1.7   |

$$y = 4.0521\text{E-}004 * x + 9.1931\text{E-}004$$

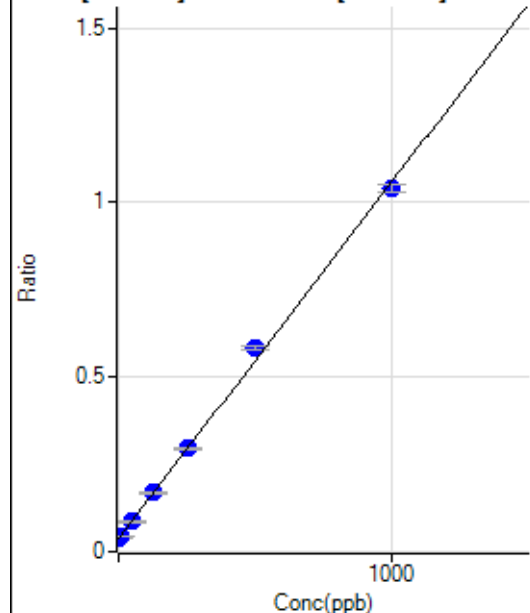
$$R = 1.0000$$

$$DL = 7.375$$

$$BEC = 2.269$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 183469.80  | 0.0373 | P   | 1.0 |
| 2 | <input type="checkbox"/> | 10.000   | 8.129      | 225010.15  | 0.0456 | P   | 2.5 |
| 3 | <input type="checkbox"/> | 50.000   | 48.182     | 421616.79  | 0.0865 | P   | 2.7 |
| 4 | <input type="checkbox"/> | 125.000  | 128.084    | 786408.89  | 0.1681 | P   | 0.8 |
| 5 | <input type="checkbox"/> | 250.000  | 253.667    | 1364845.44 | 0.2963 | P   | 2.2 |
| 6 | <input type="checkbox"/> | 500.000  | 534.891    | 2486707.65 | 0.5833 | P   | 1.6 |
| 7 | <input type="checkbox"/> | 1000.000 | 981.362    | 4194743.54 | 1.0390 | P   | 2.2 |
| 8 | <input type="checkbox"/> |          |            | 285535.35  | 0.0719 | P   | 1.9 |

$$y = 0.0010 * x + 0.0373$$

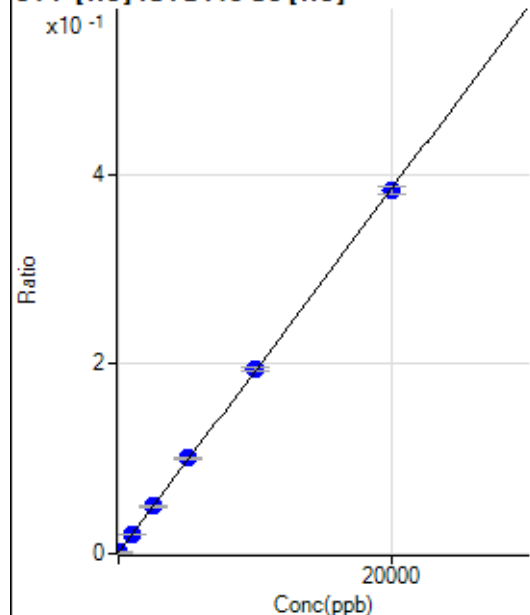
R = 0.9990

DL = 1.129

BEC = 36.59

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS       | Ratio  | Det | RSD  |
|---|--------------------------|-----------|------------|-----------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000     | -0.472     | 363.90    | 0.0010 | P   | 20.2 |
| 2 | <input type="checkbox"/> | 0.000     | 0.472      | 372.24    | 0.0010 | P   | 10.8 |
| 3 | <input type="checkbox"/> | 1000.000  | 1016.788   | 7493.74   | 0.0205 | P   | 1.4  |
| 4 | <input type="checkbox"/> | 2500.000  | 2539.426   | 17087.95  | 0.0497 | P   | 1.5  |
| 5 | <input type="checkbox"/> | 5000.000  | 5198.722   | 33165.14  | 0.1007 | P   | 1.7  |
| 6 | <input type="checkbox"/> | 10000.000 | 10102.513  | 61602.47  | 0.1947 | P   | 1.4  |
| 7 | <input type="checkbox"/> | 20000.000 | 19893.295  | 112537.78 | 0.3824 | P   | 2.2  |
| 8 | <input type="checkbox"/> |           |            | 358.35    | 0.0012 | P   | 9.4  |

$$y = 1.9171E-005 * x + 0.0010$$

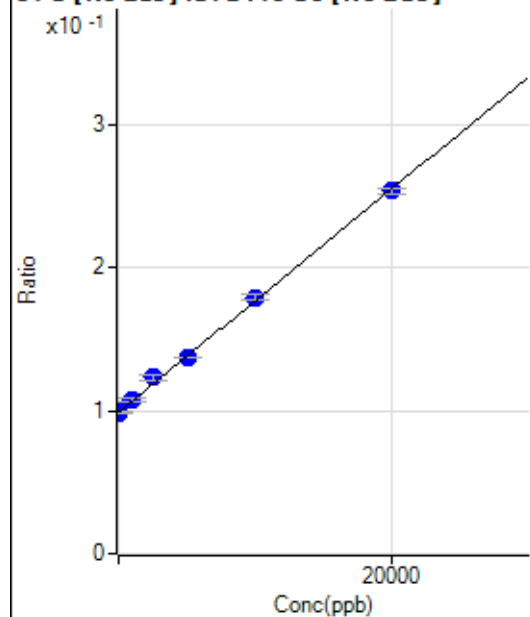
R = 0.9999

DL = 24.53

BEC = 52.88

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS        | Ratio  | Det | RSD |
|---|--------------------------|-----------|------------|------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000     | 83.152     | 488410.27  | 0.0994 | P   | 0.9 |
| 2 | <input type="checkbox"/> | 0.000     | -83.152    | 483724.76  | 0.0981 | P   | 1.2 |
| 3 | <input type="checkbox"/> | 1000.000  | 1119.979   | 523919.86  | 0.1075 | P   | 2.4 |
| 4 | <input type="checkbox"/> | 2500.000  | 3109.117   | 575478.90  | 0.1230 | P   | 2.7 |
| 5 | <input type="checkbox"/> | 5000.000  | 4953.085   | 633144.86  | 0.1374 | P   | 0.2 |
| 6 | <input type="checkbox"/> | 10000.000 | 10243.643  | 761624.62  | 0.1787 | P   | 2.2 |
| 7 | <input type="checkbox"/> | 20000.000 | 19807.769  | 1022703.38 | 0.2533 | P   | 1.2 |
| 8 | <input type="checkbox"/> |           |            | 391178.68  | 0.0985 | P   | 0.3 |

$$y = 7.8017\text{E-}006 * x + 0.0988$$

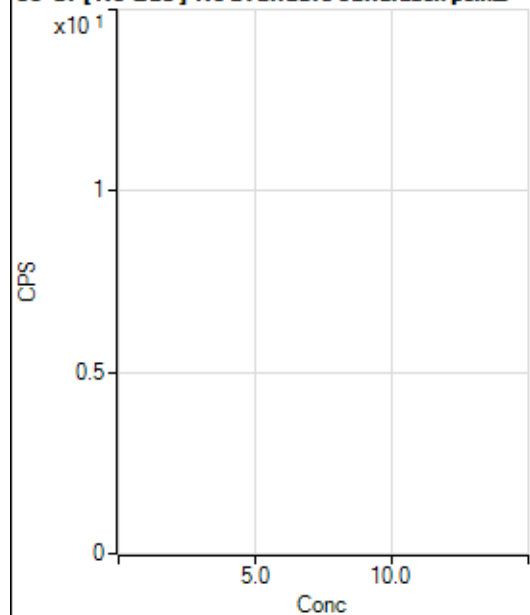
$$R = 0.9994$$

$$DL = 384.6$$

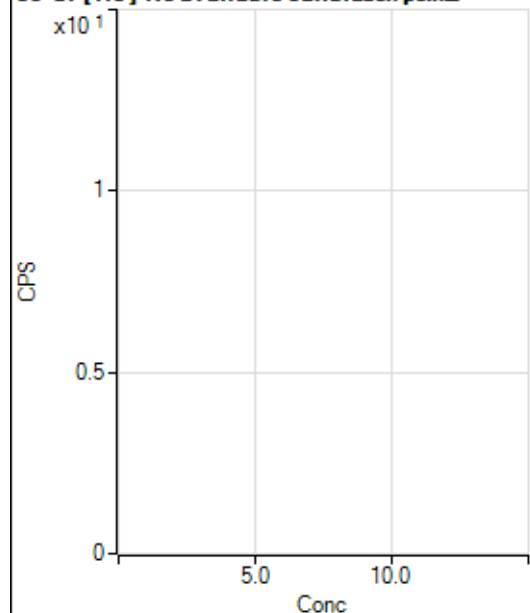
$$BEC = 1.266\text{E}+04$$

Weight: &lt;None&gt;

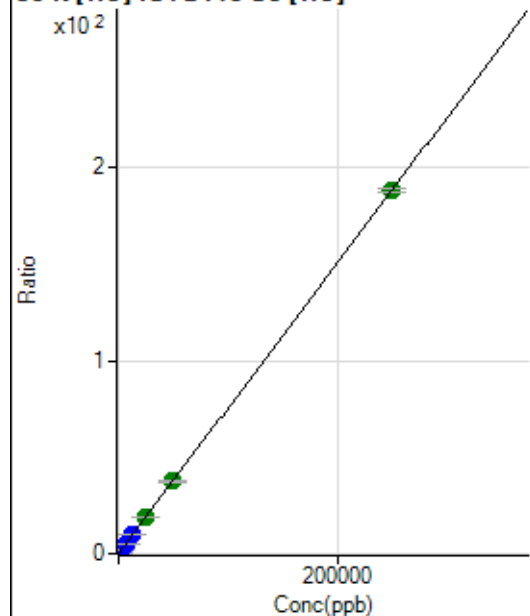
Min Conc: 0

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

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

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

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

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio    | Det | RSD |
|---|--------------------------|-----------|------------|-------------|----------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 43943.41    | 0.1215   | P   | 1.8 |
| 2 | <input type="checkbox"/> | 500.000   | 511.834    | 184162.53   | 0.5061   | P   | 1.7 |
| 3 | <input type="checkbox"/> | 2500.000  | 2645.823   | 770733.02   | 2.1097   | P   | 2.4 |
| 4 | <input type="checkbox"/> | 6250.000  | 6766.903   | 1790102.23  | 5.2064   | P   | 0.3 |
| 5 | <input type="checkbox"/> | 12500.000 | 13416.972  | 3361114.14  | 10.2035  | P   | 0.6 |
| 6 | <input type="checkbox"/> | 25000.000 | 24684.340  | 5907520.14  | 18.6702  | A   | 1.4 |
| 7 | <input type="checkbox"/> | 50000.000 | 49656.542  | 11018911.19 | 37.4352  | A   | 1.2 |
| 8 | <input type="checkbox"/> | 250000.00 | 250040.00  | 57651235.32 | 188.0103 | A   | 0.9 |

$$y = 7.5144\text{E-}004 * x + 0.1215$$

$$R = 1.0000$$

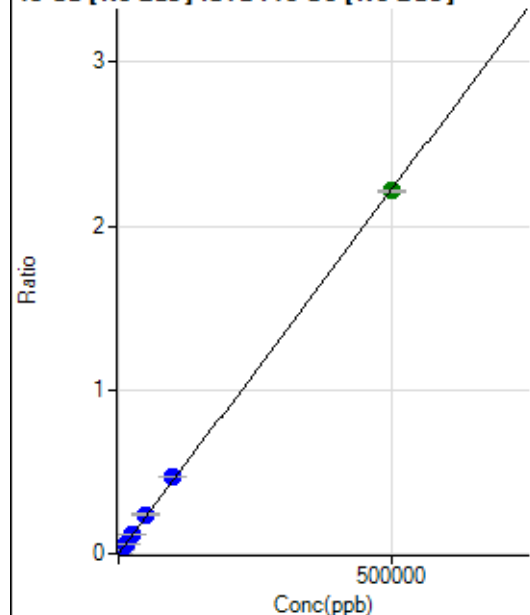
$$DL = 8.839$$

$$BEC = 161.7$$

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      | 150.00     | 0.0000 | P   | 25.1 |
| 2 | <input type="checkbox"/> | 500.000   | 507.890    | 11274.02   | 0.0023 | P   | 3.8  |
| 3 | <input type="checkbox"/> | 5000.000  | 5343.844   | 115844.57  | 0.0238 | P   | 1.9  |
| 4 | <input type="checkbox"/> | 12500.000 | 13572.580  | 282222.81  | 0.0603 | P   | 1.1  |
| 5 | <input type="checkbox"/> | 25000.000 | 26625.016  | 545121.30  | 0.1183 | P   | 0.3  |
| 6 | <input type="checkbox"/> | 50000.000 | 54042.879  | 1023464.06 | 0.2401 | P   | 1.9  |
| 7 | <input type="checkbox"/> | 100000.00 | 105417.71  | 1890939.58 | 0.4684 | P   | 1.1  |
| 8 | <input type="checkbox"/> | 500000.00 | 498400.65  | 8790483.79 | 2.2143 | A   | 0.4  |

$$y = 4.4427E-006 * x + 3.0577E-005$$

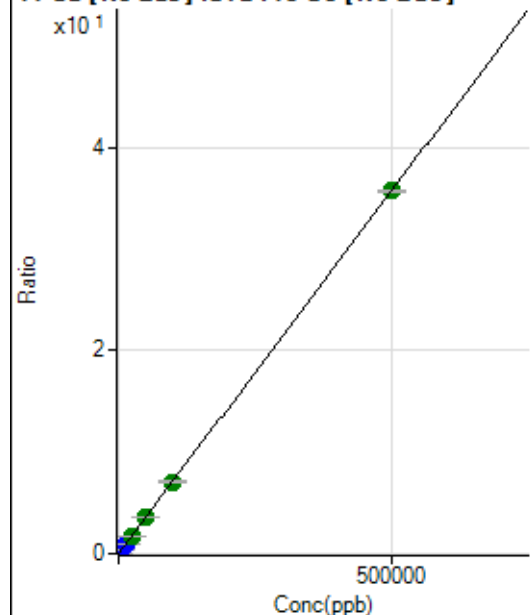
$$R = 0.9999$$

$$DL = 5.177$$

$$BEC = 6.883$$

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      | 5156.57     | 0.0010  | P   | 3.6 |
| 2 | <input type="checkbox"/> | 500.000   | 500.878    | 181581.37   | 0.0368  | P   | 1.0 |
| 3 | <input type="checkbox"/> | 5000.000  | 5292.630   | 1848060.96  | 0.3792  | P   | 1.6 |
| 4 | <input type="checkbox"/> | 12500.000 | 13277.842  | 4443213.99  | 0.9498  | P   | 0.8 |
| 5 | <input type="checkbox"/> | 25000.000 | 24863.852  | 8189776.14  | 1.7776  | A   | 0.5 |
| 6 | <input type="checkbox"/> | 50000.000 | 50906.909  | 15507155.04 | 3.6384  | A   | 2.6 |
| 7 | <input type="checkbox"/> | 100000.00 | 99070.708  | 28582860.01 | 7.0797  | A   | 1.2 |
| 8 | <input type="checkbox"/> | 500000.00 | 500079.60  | 141852462.8 | 35.7318 | A   | 0.7 |

$$y = 7.1450E-005 * x + 0.0010$$

$$R = 1.0000$$

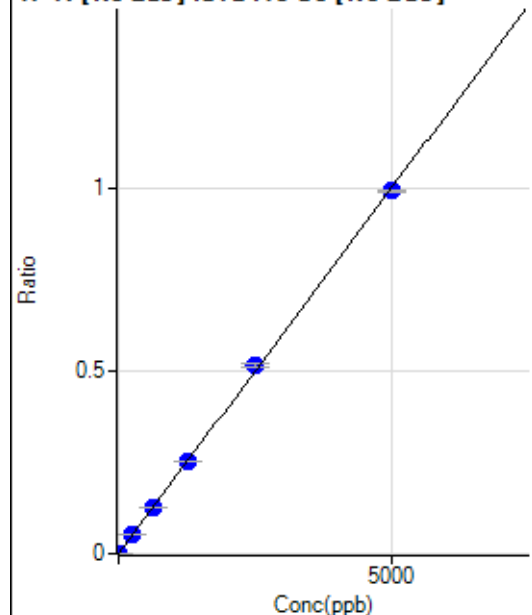
$$DL = 1.583$$

$$BEC = 14.69$$

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      | 52.78      | 0.0000 | P   | 33.0 |
| 2 | <input type="checkbox"/> | 5.000    | 4.720      | 4709.19    | 0.0010 | P   | 5.1  |
| 3 | <input type="checkbox"/> | 250.000  | 253.668    | 247537.80  | 0.0508 | P   | 0.6  |
| 4 | <input type="checkbox"/> | 625.000  | 631.562    | 591414.72  | 0.1264 | P   | 1.9  |
| 5 | <input type="checkbox"/> | 1250.000 | 1252.542   | 1155196.09 | 0.2507 | P   | 0.3  |
| 6 | <input type="checkbox"/> | 2500.000 | 2573.132   | 2195484.08 | 0.5151 | P   | 1.8  |
| 7 | <input type="checkbox"/> | 5000.000 | 4961.795   | 4009946.88 | 0.9932 | P   | 0.8  |
| 8 | <input type="checkbox"/> |          |            | 747.26     | 0.0002 | P   | 13.7 |

$$y = 2.0017E-004 * x + 1.0743E-005$$

$$R = 0.9998$$

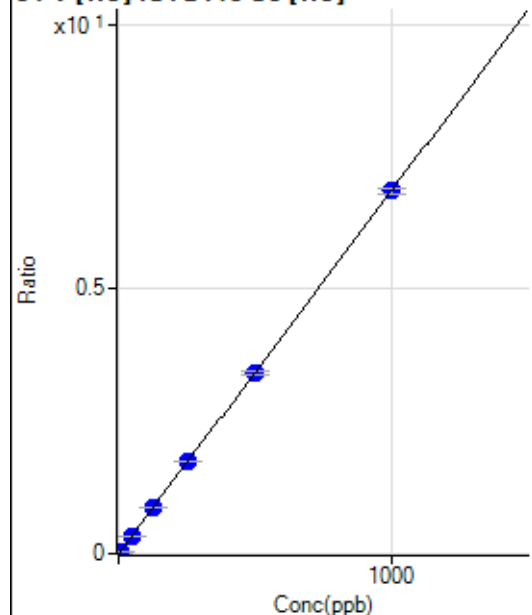
$$DL = 0.0531$$

$$BEC = 0.05367$$

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      | 5.56       | 0.0000 | P   | 34.3 |
| 2 | <input type="checkbox"/> | 5.000    | 4.990      | 12460.89   | 0.0342 | P   | 1.0  |
| 3 | <input type="checkbox"/> | 50.000   | 49.702     | 124550.80  | 0.3409 | P   | 2.4  |
| 4 | <input type="checkbox"/> | 125.000  | 127.650    | 301042.11  | 0.8756 | P   | 0.4  |
| 5 | <input type="checkbox"/> | 250.000  | 255.492    | 577266.52  | 1.7524 | P   | 0.6  |
| 6 | <input type="checkbox"/> | 500.000  | 497.001    | 1078653.24 | 3.4090 | P   | 1.8  |
| 7 | <input type="checkbox"/> | 1000.000 | 999.810    | 2018581.77 | 6.8577 | P   | 1.6  |
| 8 | <input type="checkbox"/> |          |            | 357.79     | 0.0012 | P   | 3.7  |

$$y = 0.0069 * x + 1.5343E-005$$

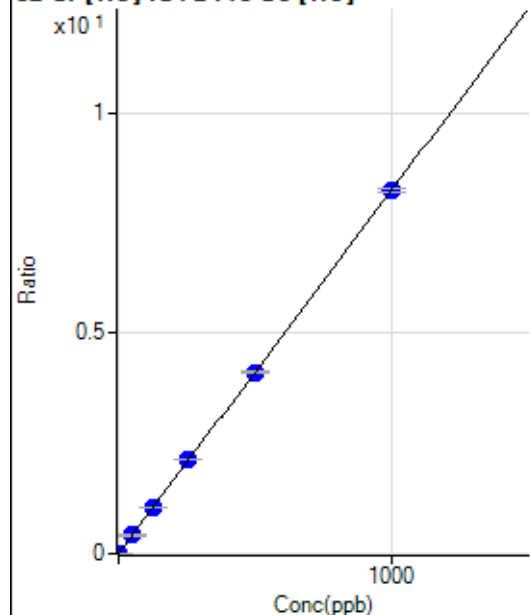
$$R = 1.0000$$

$$DL = 0.002302$$

$$BEC = 0.002237$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 1371.19    | 0.0038 | P   | 1.0 |
| 2 | <input type="checkbox"/> | 2.000    | 2.070      | 7584.23    | 0.0208 | P   | 2.3 |
| 3 | <input type="checkbox"/> | 50.000   | 50.393     | 153027.36  | 0.4189 | P   | 2.9 |
| 4 | <input type="checkbox"/> | 125.000  | 128.078    | 364044.33  | 1.0588 | P   | 0.2 |
| 5 | <input type="checkbox"/> | 250.000  | 257.397    | 699680.54  | 2.1241 | P   | 0.3 |
| 6 | <input type="checkbox"/> | 500.000  | 498.608    | 1300778.69 | 4.1110 | P   | 1.6 |
| 7 | <input type="checkbox"/> | 1000.000 | 998.442    | 2422043.83 | 8.2283 | P   | 1.2 |
| 8 | <input type="checkbox"/> |          |            | 6563.73    | 0.0214 | P   | 2.8 |

$$y = 0.0082 * x + 0.0038$$

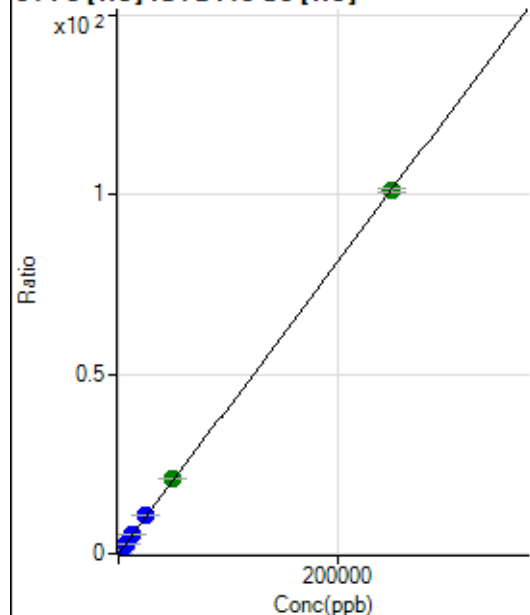
$$R = 1.0000$$

$$DL = 0.01381$$

$$BEC = 0.4602$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio    | Det | RSD |
|---|--------------------------|-----------|------------|-------------|----------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 994.39      | 0.0027   | P   | 4.4 |
| 2 | <input type="checkbox"/> | 50.000    | 56.494     | 9335.94     | 0.0257   | P   | 5.1 |
| 3 | <input type="checkbox"/> | 2500.000  | 2660.030   | 394998.22   | 1.0812   | P   | 2.1 |
| 4 | <input type="checkbox"/> | 6250.000  | 6787.897   | 947109.21   | 2.7547   | P   | 0.5 |
| 5 | <input type="checkbox"/> | 12500.000 | 13635.731  | 1821927.11  | 5.5309   | P   | 0.4 |
| 6 | <input type="checkbox"/> | 25000.000 | 26354.992  | 3381667.59  | 10.6875  | P   | 1.5 |
| 7 | <input type="checkbox"/> | 50000.000 | 51897.982  | 6194546.36  | 21.0431  | A   | 0.6 |
| 8 | <input type="checkbox"/> | 250000.00 | 249413.06  | 31008488.44 | 101.1190 | A   | 1.2 |

$$y = 4.0542E-004 * x + 0.0027$$

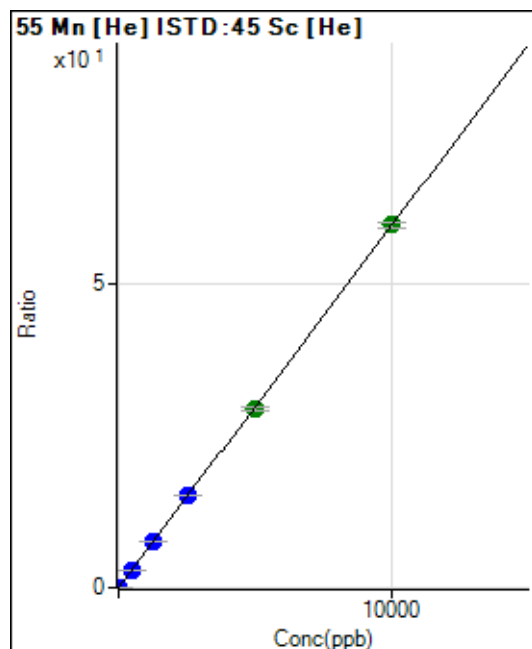
$$R = 1.0000$$

$$DL = 0.9013$$

$$BEC = 6.783$$

Weight: &lt;None&gt;

Min Conc: 0



|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS         | Ratio   | Det. | RSD  |
|---|--------------------------|-----------|------------|-------------|---------|------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 158.89      | 0.0004  | P    | 17.8 |
| 2 | <input type="checkbox"/> | 1.000     | 0.988      | 2305.76     | 0.0063  | P    | 0.4  |
| 3 | <input type="checkbox"/> | 500.000   | 493.814    | 1077302.40  | 2.9488  | P    | 2.2  |
| 4 | <input type="checkbox"/> | 1250.000  | 1267.272   | 2601624.28  | 7.5667  | P    | 0.1  |
| 5 | <input type="checkbox"/> | 2500.000  | 2534.911   | 4985629.44  | 15.1352 | P    | 0.7  |
| 6 | <input type="checkbox"/> | 5000.000  | 4938.544   | 9329628.40  | 29.4862 | A    | 2.1  |
| 7 | <input type="checkbox"/> | 10000.000 | 10020.150  | 17609152.65 | 59.8261 | A    | 1.7  |
| 8 | <input type="checkbox"/> |           |            | 9230.75     | 0.0301  | P    | 4.9  |

$$y = 0.0060 * x + 4.3945E-004$$

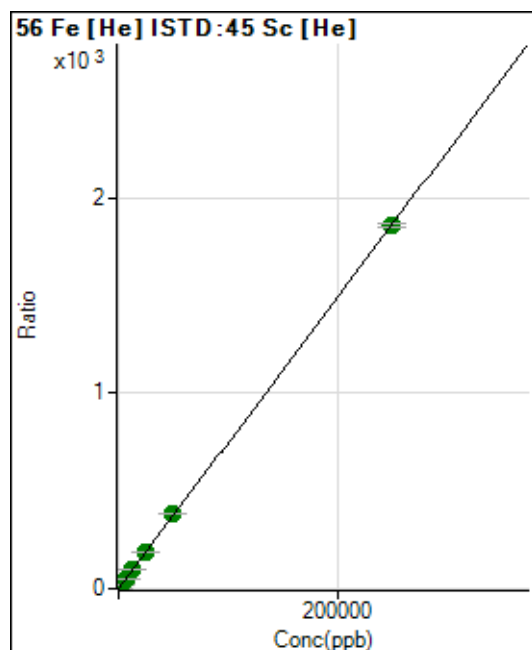
$$R = 1.0000$$

$$DL = 0.03936$$

$$BEC = 0.0736$$

Weight: <None>

Min Conc: 0



|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS         | Ratio     | Det. | RSD |
|---|--------------------------|-----------|------------|-------------|-----------|------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 6105.06     | 0.0169    | P    | 3.0 |
| 2 | <input type="checkbox"/> | 50.000    | 51.941     | 146599.27   | 0.4029    | P    | 0.6 |
| 3 | <input type="checkbox"/> | 2500.000  | 2519.872   | 6848209.24  | 18.7436   | A    | 1.5 |
| 4 | <input type="checkbox"/> | 6250.000  | 6516.747   | 16657350.60 | 48.4469   | A    | 0.5 |
| 5 | <input type="checkbox"/> | 12500.000 | 13046.832  | 31945679.19 | 96.9761   | A    | 0.9 |
| 6 | <input type="checkbox"/> | 25000.000 | 25432.519  | 59808863.84 | 189.0219  | A    | 1.5 |
| 7 | <input type="checkbox"/> | 50000.000 | 51641.691  | 112963076.6 | 383.7988  | A    | 1.8 |
| 8 | <input type="checkbox"/> | 250000.00 | 249594.20  | 568801516.4 | 1.854.908 | A    | 0.9 |

$$y = 0.0074 * x + 0.0169$$

$$R = 1.0000$$

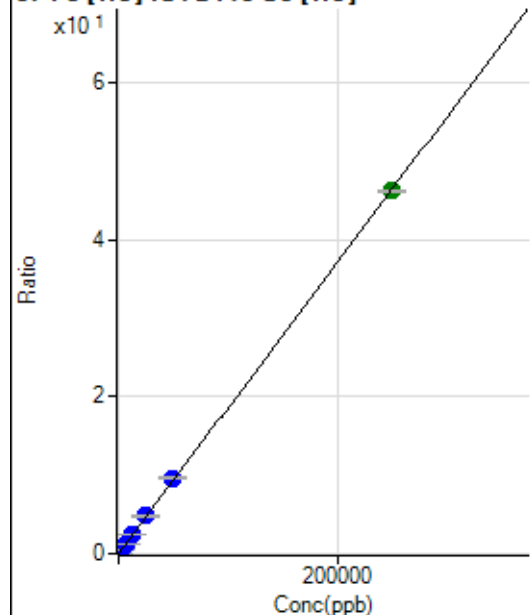
$$DL = 0.2043$$

$$BEC = 2.272$$

Weight: <None>

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS         | Ratio   | Det | RSD |
|---|--------------------------|-----------|------------|-------------|---------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 222.23      | 0.0006  | P   | 9.7 |
| 2 | <input type="checkbox"/> | 50.000    | 53.745     | 3846.86     | 0.0106  | P   | 3.9 |
| 3 | <input type="checkbox"/> | 2500.000  | 2589.019   | 175434.69   | 0.4802  | P   | 1.7 |
| 4 | <input type="checkbox"/> | 6250.000  | 6656.815   | 424177.68   | 1.2337  | P   | 0.9 |
| 5 | <input type="checkbox"/> | 12500.000 | 13283.689  | 810715.64   | 2.4611  | P   | 0.5 |
| 6 | <input type="checkbox"/> | 25000.000 | 25829.673  | 1514080.17  | 4.7850  | P   | 1.3 |
| 7 | <input type="checkbox"/> | 50000.000 | 51903.637  | 2829933.74  | 9.6147  | P   | 1.4 |
| 8 | <input type="checkbox"/> | 250000.00 | 249486.05  | 14170320.22 | 46.2128 | A   | 0.4 |

$$y = 1.8523E-004 * x + 6.1484E-004$$

$$R = 1.0000$$

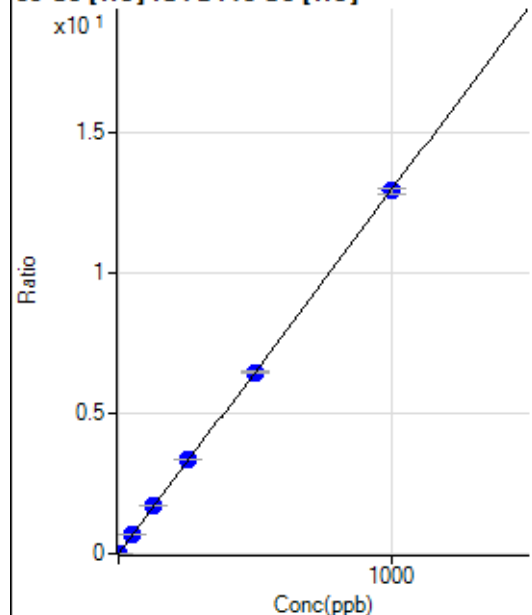
$$DL = 0.9638$$

$$BEC = 3.319$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio   | Det | RSD  |
|---|--------------------------|----------|------------|------------|---------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 103.33     | 0.0003  | P   | 13.7 |
| 2 | <input type="checkbox"/> | 1.000    | 1.023      | 4935.32    | 0.0136  | P   | 2.1  |
| 3 | <input type="checkbox"/> | 50.000   | 51.083     | 242355.13  | 0.6634  | P   | 2.4  |
| 4 | <input type="checkbox"/> | 125.000  | 129.927    | 579972.21  | 1.6868  | P   | 0.5  |
| 5 | <input type="checkbox"/> | 250.000  | 258.453    | 1105254.93 | 3.3552  | P   | 0.6  |
| 6 | <input type="checkbox"/> | 500.000  | 499.372    | 2051220.61 | 6.4826  | P   | 0.9  |
| 7 | <input type="checkbox"/> | 1000.000 | 997.531    | 3811407.69 | 12.9491 | P   | 1.5  |
| 8 | <input type="checkbox"/> |          |            | 5887.90    | 0.0192  | P   | 1.5  |

$$y = 0.0130 * x + 2.8543E-004$$

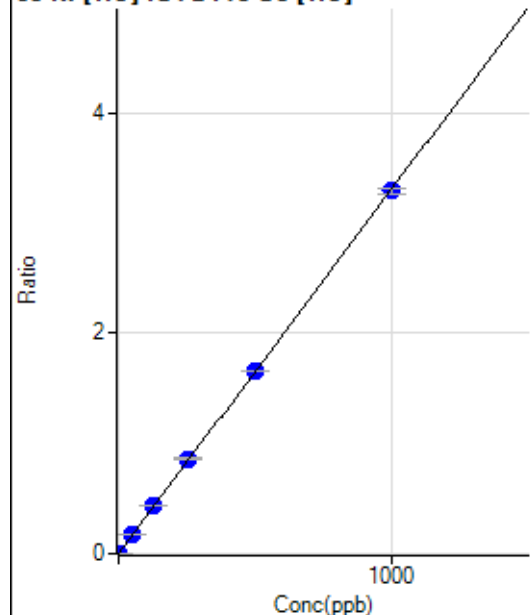
$$R = 1.0000$$

$$DL = 0.009054$$

$$BEC = 0.02199$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS       | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-----------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 191.11    | 0.0005 | P   | 10.5 |
| 2 | <input type="checkbox"/> | 1.000    | 1.064      | 1472.31   | 0.0040 | P   | 5.9  |
| 3 | <input type="checkbox"/> | 50.000   | 51.575     | 62498.96  | 0.1711 | P   | 2.6  |
| 4 | <input type="checkbox"/> | 125.000  | 131.041    | 149179.26 | 0.4339 | P   | 1.1  |
| 5 | <input type="checkbox"/> | 250.000  | 260.771    | 284231.77 | 0.8629 | P   | 0.7  |
| 6 | <input type="checkbox"/> | 500.000  | 501.424    | 524836.53 | 1.6587 | P   | 0.8  |
| 7 | <input type="checkbox"/> | 1000.000 | 995.761    | 969389.42 | 3.2934 | P   | 1.8  |
| 8 | <input type="checkbox"/> |          |            | 1933.48   | 0.0063 | P   | 4.5  |

$$y = 0.0033 * x + 5.2836E-004$$

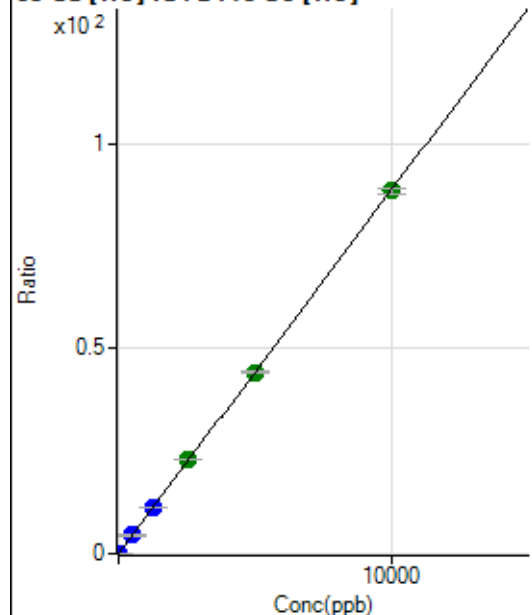
$$R = 0.9999$$

$$DL = 0.05022$$

$$BEC = 0.1598$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio   | Det | RSD |
|---|--------------------------|-----------|------------|-------------|---------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 808.92      | 0.0022  | P   | 7.0 |
| 2 | <input type="checkbox"/> | 2.000     | 1.920      | 7007.29     | 0.0193  | P   | 2.3 |
| 3 | <input type="checkbox"/> | 500.000   | 506.225    | 1640952.62  | 4.4916  | P   | 2.3 |
| 4 | <input type="checkbox"/> | 1250.000  | 1282.207   | 3910433.48  | 11.3732 | P   | 0.3 |
| 5 | <input type="checkbox"/> | 2500.000  | 2598.856   | 7592813.92  | 23.0496 | A   | 0.4 |
| 6 | <input type="checkbox"/> | 5000.000  | 4994.311   | 14014965.21 | 44.2932 | A   | 1.4 |
| 7 | <input type="checkbox"/> | 10000.000 | 9973.793   | 26034586.00 | 88.4526 | A   | 1.6 |
| 8 | <input type="checkbox"/> |           |            | 6020.18     | 0.0196  | P   | 4.7 |

$$y = 0.0089 * x + 0.0022$$

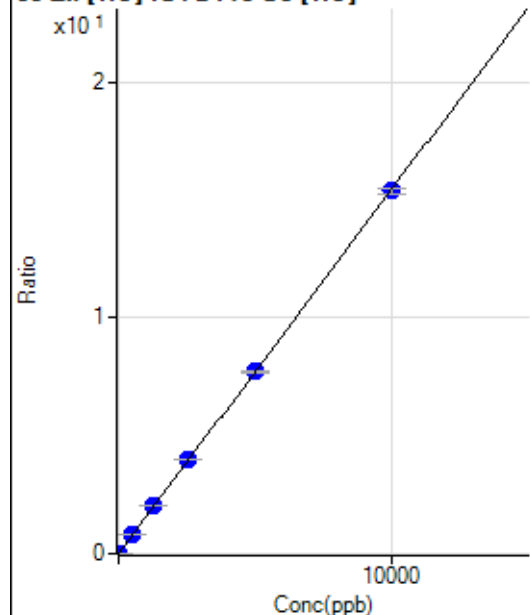
$$R = 0.9999$$

$$DL = 0.05329$$

$$BEC = 0.2521$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS        | Ratio   | Det | RSD  |
|---|--------------------------|-----------|------------|------------|---------|-----|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 537.79     | 0.0015  | P   | 11.5 |
| 2 | <input type="checkbox"/> | 2.000     | 1.986      | 1657.89    | 0.0046  | P   | 0.8  |
| 3 | <input type="checkbox"/> | 500.000   | 507.734    | 287194.06  | 0.7861  | P   | 2.3  |
| 4 | <input type="checkbox"/> | 1250.000  | 1300.887   | 691697.75  | 2.0118  | P   | 0.4  |
| 5 | <input type="checkbox"/> | 2500.000  | 2593.361   | 1320626.16 | 4.0091  | P   | 0.5  |
| 6 | <input type="checkbox"/> | 5000.000  | 5009.772   | 2450130.05 | 7.7433  | P   | 1.1  |
| 7 | <input type="checkbox"/> | 10000.000 | 9965.026   | 4532994.13 | 15.4008 | P   | 1.6  |
| 8 | <input type="checkbox"/> |           |            | 5674.49    | 0.0185  | P   | 3.1  |

$$y = 0.0015 * x + 0.0015$$

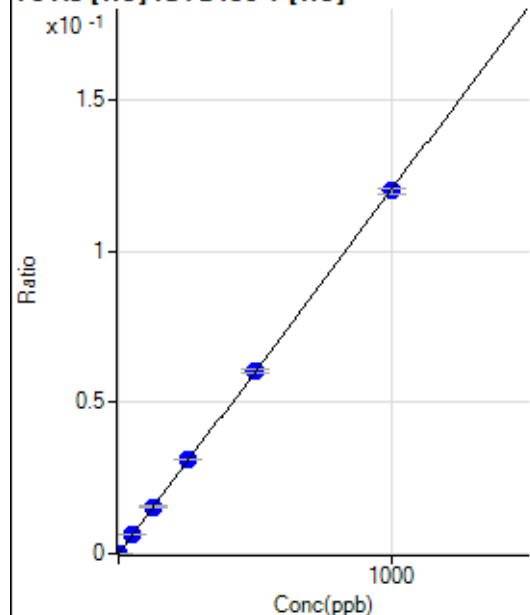
$$R = 0.9999$$

$$DL = 0.3328$$

$$BEC = 0.9623$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS       | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-----------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 3.71      | 0.0000 | P   | 86.6 |
| 2 | <input type="checkbox"/> | 1.000    | 1.008      | 328.40    | 0.0001 | P   | 5.2  |
| 3 | <input type="checkbox"/> | 50.000   | 51.107     | 16778.83  | 0.0062 | P   | 2.4  |
| 4 | <input type="checkbox"/> | 125.000  | 129.348    | 40184.82  | 0.0156 | P   | 0.7  |
| 5 | <input type="checkbox"/> | 250.000  | 257.057    | 76921.92  | 0.0310 | P   | 0.5  |
| 6 | <input type="checkbox"/> | 500.000  | 501.985    | 144652.25 | 0.0605 | P   | 1.3  |
| 7 | <input type="checkbox"/> | 1000.000 | 996.644    | 269683.34 | 0.1201 | P   | 1.9  |
| 8 | <input type="checkbox"/> |          |            | 123.46    | 0.0001 | P   | 6.1  |

$$y = 1.2050E-004 * x + 1.3805E-006$$

$$R = 1.0000$$

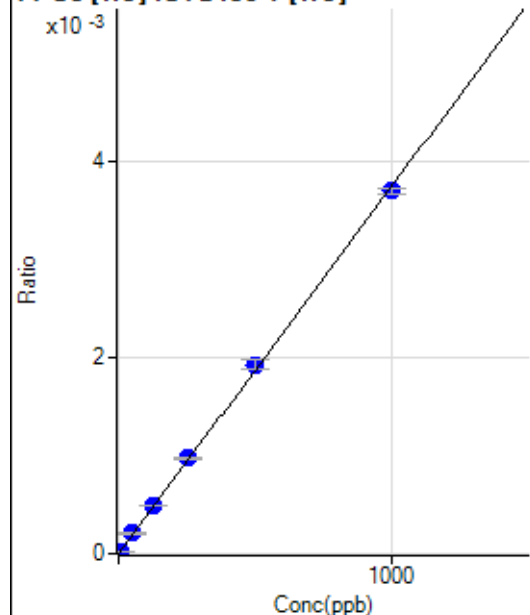
$$DL = 0.02976$$

$$BEC = 0.01146$$

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      | 0.00    | 0.0000 | P    |      |
| 2 | <input type="checkbox"/> | 5.000    | 4.771      | 47.78   | 0.0000 | P    | 34.3 |
| 3 | <input type="checkbox"/> | 50.000   | 55.711     | 568.90  | 0.0002 | P    | 6.8  |
| 4 | <input type="checkbox"/> | 125.000  | 130.272    | 1257.85 | 0.0005 | P    | 1.8  |
| 5 | <input type="checkbox"/> | 250.000  | 260.349    | 2421.34 | 0.0010 | P    | 2.7  |
| 6 | <input type="checkbox"/> | 500.000  | 515.993    | 4620.78 | 0.0019 | P    | 5.3  |
| 7 | <input type="checkbox"/> | 1000.000 | 988.473    | 8314.68 | 0.0037 | P    | 1.7  |
| 8 | <input type="checkbox"/> |          |            | 2.22    | 0.0000 | P    | 86.6 |

$$y = 3.7457\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9997$$

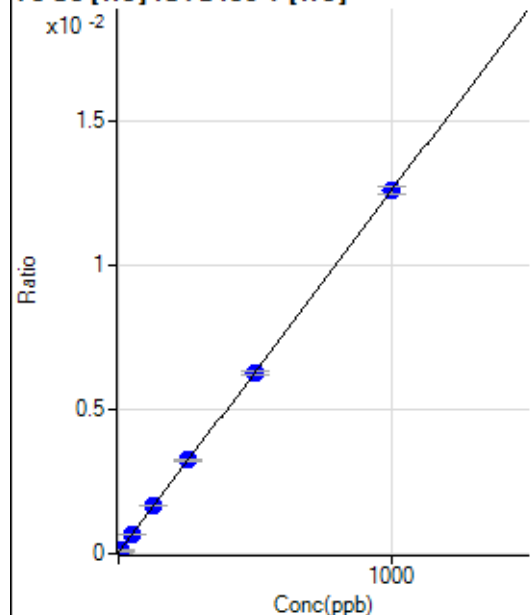
$$DL = 0$$

$$BEC = 0$$

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      | 87.65    | 0.0000 | P    | 11.6 |
| 2 | <input type="checkbox"/> | 5.000    | 5.578      | 274.69   | 0.0001 | P    | 12.8 |
| 3 | <input type="checkbox"/> | 50.000   | 49.128     | 1768.02  | 0.0006 | P    | 4.1  |
| 4 | <input type="checkbox"/> | 125.000  | 129.357    | 4268.55  | 0.0017 | P    | 1.0  |
| 5 | <input type="checkbox"/> | 250.000  | 256.041    | 8059.67  | 0.0032 | P    | 0.9  |
| 6 | <input type="checkbox"/> | 500.000  | 496.609    | 14979.99 | 0.0063 | P    | 2.0  |
| 7 | <input type="checkbox"/> | 1000.000 | 999.681    | 28237.27 | 0.0126 | P    | 2.1  |
| 8 | <input type="checkbox"/> |          |            | 97.53    | 0.0000 | P    | 21.1 |

$$y = 1.2549\text{E-}005 * x + 3.2695\text{E-}005$$

$$R = 1.0000$$

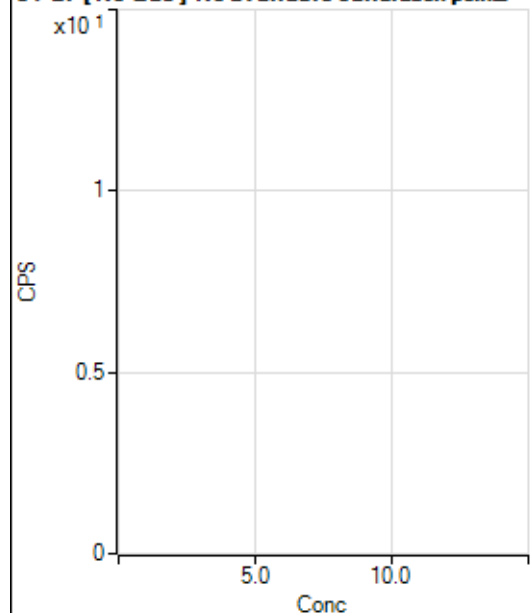
$$DL = 0.9037$$

$$BEC = 2.605$$

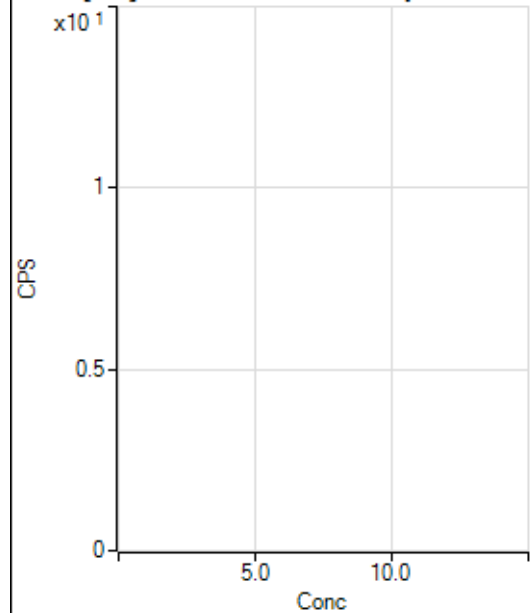
Weight: &lt;None&gt;

Min Conc: 0

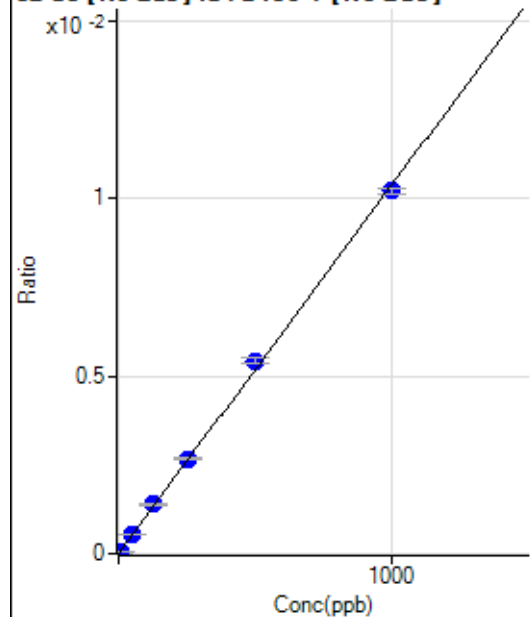


**81 Br [ No Gas ] No available calibration points**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS     | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|---------|-------|----------|-----|
| 1 | <input type="checkbox"/> |       |            | 8861.31 |       | P        | 1.5 |
| 2 | <input type="checkbox"/> |       |            | 8625.03 |       | P        | 6.3 |
| 3 | <input type="checkbox"/> |       |            | 8344.31 |       | P        | 2.3 |
| 4 | <input type="checkbox"/> |       |            | 8227.60 |       | P        | 5.5 |
| 5 | <input type="checkbox"/> |       |            | 7796.77 |       | P        | 4.9 |
| 6 | <input type="checkbox"/> |       |            | 7221.45 |       | P        | 3.3 |
| 7 | <input type="checkbox"/> |       |            | 6543.33 |       | P        | 7.4 |
| 8 | <input type="checkbox"/> |       |            | 6523.87 |       | P        | 2.2 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS   | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|-------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 33.37 |       | P        | 45.8 |
| 2 | <input type="checkbox"/> |       |            | 63.40 |       | P        | 32.9 |
| 3 | <input type="checkbox"/> |       |            | 33.37 |       | P        | 34.6 |
| 4 | <input type="checkbox"/> |       |            | 20.02 |       | P        | 50.0 |
| 5 | <input type="checkbox"/> |       |            | 63.40 |       | P        | 48.2 |
| 6 | <input type="checkbox"/> |       |            | 43.38 |       | P        | 53.3 |
| 7 | <input type="checkbox"/> |       |            | 46.71 |       | P        | 32.7 |
| 8 | <input type="checkbox"/> |       |            | 73.41 |       | P        | 70.0 |

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS       | Ratio  | Det | RSD   |
|---|--------------------------|----------|------------|-----------|--------|-----|-------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 57.08     | 0.0000 | P   | 74.2  |
| 2 | <input type="checkbox"/> | 5.000    | 5.021      | 698.82    | 0.0001 | P   | 9.4   |
| 3 | <input type="checkbox"/> | 50.000   | 51.948     | 6727.95   | 0.0005 | P   | 1.7   |
| 4 | <input type="checkbox"/> | 125.000  | 132.797    | 16496.14  | 0.0014 | P   | 1.2   |
| 5 | <input type="checkbox"/> | 250.000  | 258.009    | 31658.99  | 0.0027 | P   | 0.7   |
| 6 | <input type="checkbox"/> | 500.000  | 523.638    | 59969.14  | 0.0054 | P   | 2.4   |
| 7 | <input type="checkbox"/> | 1000.000 | 985.107    | 110708.32 | 0.0102 | P   | 1.4   |
| 8 | <input type="checkbox"/> |          |            | -30.21    | 0.0000 | P   | -170. |

$$y = 1.0370E-005 * x + 4.5987E-006$$

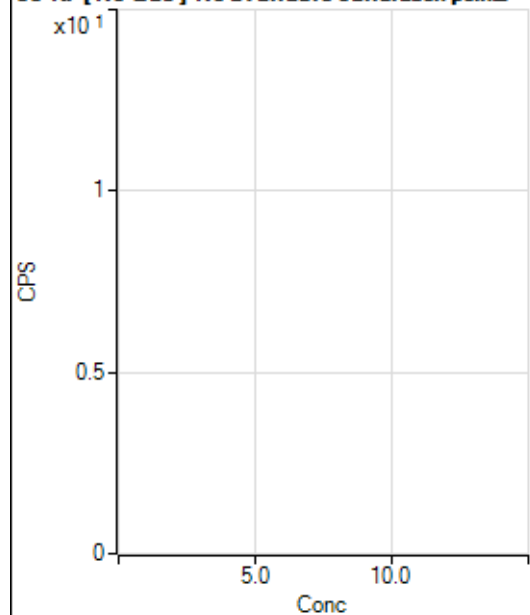
$$R = 0.9995$$

$$DL = 0.9876$$

$$BEC = 0.4435$$

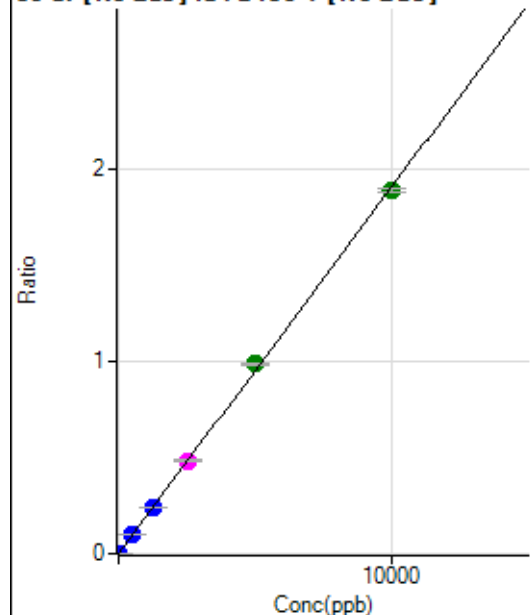
Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det | RSD  |
|---|--------------------------|-------|------------|--------|-------|-----|------|
| 1 | <input type="checkbox"/> |       |            | 710.03 |       | P   | 1.7  |
| 2 | <input type="checkbox"/> |       |            | 688.91 |       | P   | 3.1  |
| 3 | <input type="checkbox"/> |       |            | 723.36 |       | P   | 20.3 |
| 4 | <input type="checkbox"/> |       |            | 765.58 |       | P   | 7.1  |
| 5 | <input type="checkbox"/> |       |            | 671.13 |       | P   | 3.7  |
| 6 | <input type="checkbox"/> |       |            | 610.02 |       | P   | 9.3  |
| 7 | <input type="checkbox"/> |       |            | 616.68 |       | P   | 7.7  |
| 8 | <input type="checkbox"/> |       |            | 657.80 |       | P   | 4.1  |

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



|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|-----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 1216.75     | 0.0001 | P    | 12.2 |
| 2 | <input type="checkbox"/> | 1.000     | 1.066      | 3720.01     | 0.0003 | P    | 2.0  |
| 3 | <input type="checkbox"/> | 500.000   | 509.223    | 1201825.91  | 0.0971 | P    | 0.8  |
| 4 | <input type="checkbox"/> | 1250.000  | 1262.602   | 2871384.29  | 0.2405 | P    | 0.5  |
| 5 | <input type="checkbox"/> | 2500.000  | 2542.156   | 5718730.99  | 0.4841 | M    | 0.3  |
| 6 | <input type="checkbox"/> | 5000.000  | 5170.970   | 10865664.22 | 0.9847 | A    | 1.7  |
| 7 | <input type="checkbox"/> | 10000.000 | 9901.939   | 20423352.02 | 1.8855 | A    | 0.9  |
| 8 | <input type="checkbox"/> |           |            | 6432.15     | 0.0006 | P    | 2.7  |

$$y = 1.9040\text{E-}004 * x + 9.8505\text{E-}005$$

$$R = 0.9998$$

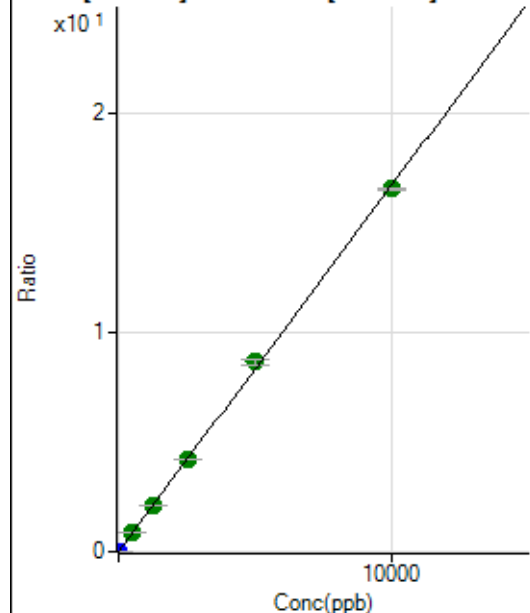
$$DL = 0.1889$$

$$BEC = 0.5173$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio   | Det. | RSD |
|---|--------------------------|-----------|------------|-------------|---------|------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 633.37      | 0.0001  | P    | 9.6 |
| 2 | <input type="checkbox"/> | 1.000     | 1.041      | 22092.35    | 0.0018  | P    | 3.2 |
| 3 | <input type="checkbox"/> | 500.000   | 507.009    | 10488008.92 | 0.8470  | A    | 0.7 |
| 4 | <input type="checkbox"/> | 1250.000  | 1268.499   | 25298633.38 | 2.1190  | A    | 0.6 |
| 5 | <input type="checkbox"/> | 2500.000  | 2508.953   | 49504501.80 | 4.1911  | A    | 0.9 |
| 6 | <input type="checkbox"/> | 5000.000  | 5176.889   | 95413322.96 | 8.6476  | A    | 2.5 |
| 7 | <input type="checkbox"/> | 10000.000 | 9906.655   | 179253613.7 | 16.5483 | A    | 0.2 |
| 8 | <input type="checkbox"/> |           |            | 47172.57    | 0.0045  | P    | 0.6 |

$$y = 0.0017 * x + 5.1287\text{E-}005$$

$$R = 0.9998$$

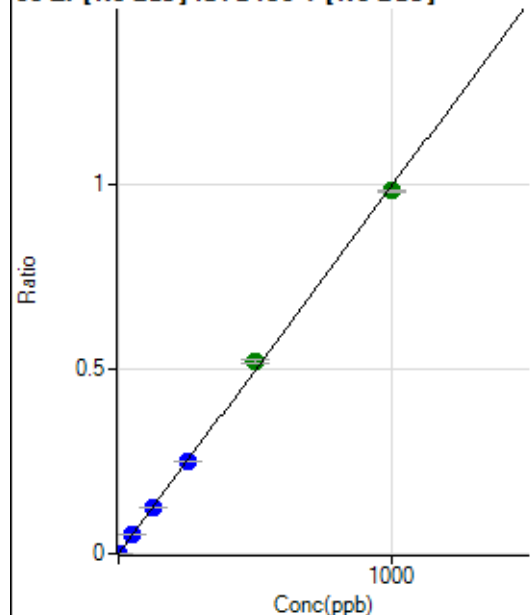
$$DL = 0.008888$$

$$BEC = 0.0307$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|-------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 791.70      | 0.0001 | P   | 8.1 |
| 2 | <input type="checkbox"/> | 1.000    | 0.956      | 12508.50    | 0.0010 | P   | 1.5 |
| 3 | <input type="checkbox"/> | 50.000   | 50.340     | 619726.10   | 0.0500 | P   | 0.5 |
| 4 | <input type="checkbox"/> | 125.000  | 126.902    | 1505191.24  | 0.1261 | P   | 0.1 |
| 5 | <input type="checkbox"/> | 250.000  | 251.543    | 2950870.42  | 0.2498 | P   | 1.0 |
| 6 | <input type="checkbox"/> | 500.000  | 523.230    | 5732766.49  | 0.5196 | A   | 2.8 |
| 7 | <input type="checkbox"/> | 1000.000 | 987.744    | 10624220.03 | 0.9808 | A   | 0.6 |
| 8 | <input type="checkbox"/> |          |            | 2425.27     | 0.0002 | P   | 2.5 |

$$y = 9.9291\text{E-}004 * x + 6.4105\text{E-}005$$

$$R = 0.9996$$

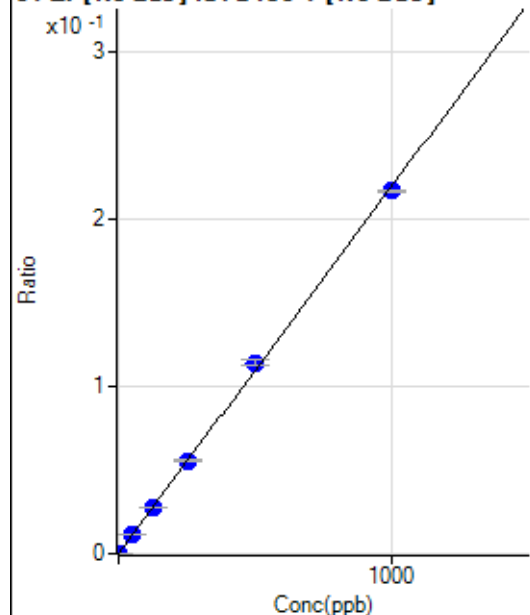
$$DL = 0.01565$$

$$BEC = 0.06456$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 102.78     | 0.0000 | P   | 20.9 |
| 2 | <input type="checkbox"/> | 1.000    | 0.949      | 2675.32    | 0.0002 | P   | 1.0  |
| 3 | <input type="checkbox"/> | 50.000   | 50.644     | 137882.95  | 0.0111 | P   | 0.3  |
| 4 | <input type="checkbox"/> | 125.000  | 128.126    | 336188.93  | 0.0282 | P   | 0.2  |
| 5 | <input type="checkbox"/> | 250.000  | 253.138    | 656996.72  | 0.0556 | P   | 1.4  |
| 6 | <input type="checkbox"/> | 500.000  | 520.946    | 1262733.08 | 0.1145 | P   | 3.3  |
| 7 | <input type="checkbox"/> | 1000.000 | 988.320    | 2352093.85 | 0.2171 | P   | 0.5  |
| 8 | <input type="checkbox"/> |          |            | 580.59     | 0.0001 | P   | 5.6  |

$$y = 2.1970\text{E-}004 * x + 8.3311\text{E-}006$$

$$R = 0.9997$$

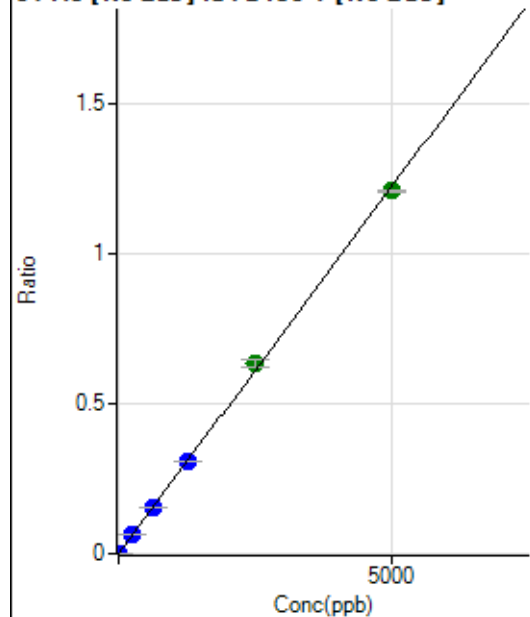
$$DL = 0.02382$$

$$BEC = 0.03792$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 297.23      | 0.0000 | P    | 11.6 |
| 2 | <input type="checkbox"/> | 5.000    | 4.882      | 15016.54    | 0.0012 | P    | 1.9  |
| 3 | <input type="checkbox"/> | 250.000  | 253.287    | 766706.91   | 0.0619 | P    | 0.6  |
| 4 | <input type="checkbox"/> | 625.000  | 638.784    | 1863947.09  | 0.1561 | P    | 0.1  |
| 5 | <input type="checkbox"/> | 1250.000 | 1258.442   | 3632502.34  | 0.3075 | P    | 1.3  |
| 6 | <input type="checkbox"/> | 2500.000 | 2601.062   | 7011869.69  | 0.6356 | A    | 3.7  |
| 7 | <input type="checkbox"/> | 5000.000 | 4945.471   | 13090533.45 | 1.2085 | A    | 0.4  |
| 8 | <input type="checkbox"/> |          |            | 3542.23     | 0.0003 | P    | 3.9  |

$$y = 2.4436E-004 * x + 2.4059E-005$$

$$R = 0.9997$$

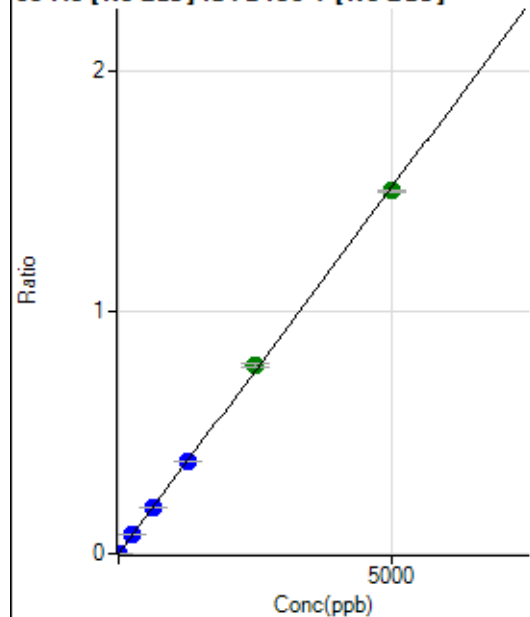
$$DL = 0.03421$$

$$BEC = 0.09846$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 30.55       | 0.0000 | P    | 16.7 |
| 2 | <input type="checkbox"/> | 5.000    | 4.789      | 17919.87    | 0.0015 | P    | 2.3  |
| 3 | <input type="checkbox"/> | 250.000  | 254.861    | 955691.44   | 0.0772 | P    | 0.9  |
| 4 | <input type="checkbox"/> | 625.000  | 636.520    | 2301258.93  | 0.1928 | P    | 0.9  |
| 5 | <input type="checkbox"/> | 1250.000 | 1261.070   | 4510688.12  | 0.3819 | P    | 1.1  |
| 6 | <input type="checkbox"/> | 2500.000 | 2580.462   | 8622211.39  | 0.7814 | A    | 2.3  |
| 7 | <input type="checkbox"/> | 5000.000 | 4955.318   | 16254427.45 | 1.5006 | A    | 0.4  |
| 8 | <input type="checkbox"/> |          |            | 4787.06     | 0.0005 | P    | 13.6 |

$$y = 3.0282E-004 * x + 2.4781E-006$$

$$R = 0.9998$$

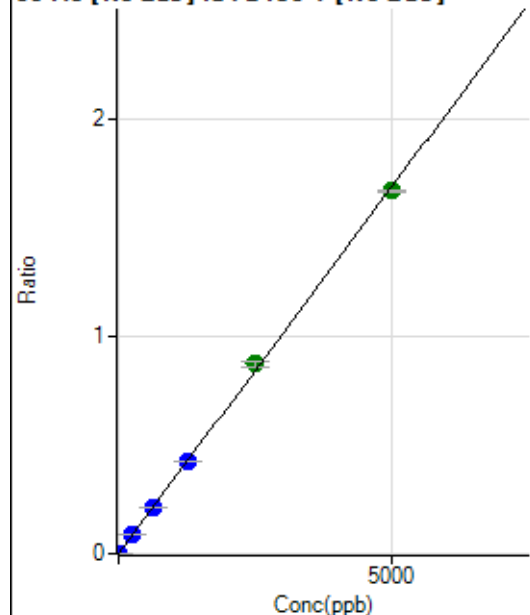
$$DL = 0.004107$$

$$BEC = 0.008184$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 122.22      | 0.0000 | P    | 30.3 |
| 2 | <input type="checkbox"/> | 5.000    | 4.825      | 20200.80    | 0.0016 | P    | 2.5  |
| 3 | <input type="checkbox"/> | 250.000  | 253.957    | 1060702.04  | 0.0857 | P    | 1.1  |
| 4 | <input type="checkbox"/> | 625.000  | 635.357    | 2558530.81  | 0.2143 | P    | 0.4  |
| 5 | <input type="checkbox"/> | 1250.000 | 1260.328   | 5020904.76  | 0.4251 | P    | 1.0  |
| 6 | <input type="checkbox"/> | 2500.000 | 2590.509   | 9638826.26  | 0.8737 | A    | 3.4  |
| 7 | <input type="checkbox"/> | 5000.000 | 4950.671   | 18086441.73 | 1.6697 | A    | 0.5  |
| 8 | <input type="checkbox"/> |          |            | 6004.19     | 0.0006 | P    | 7.2  |

$$y = 3.3726E-004 * x + 9.8789E-006$$

$$R = 0.9998$$

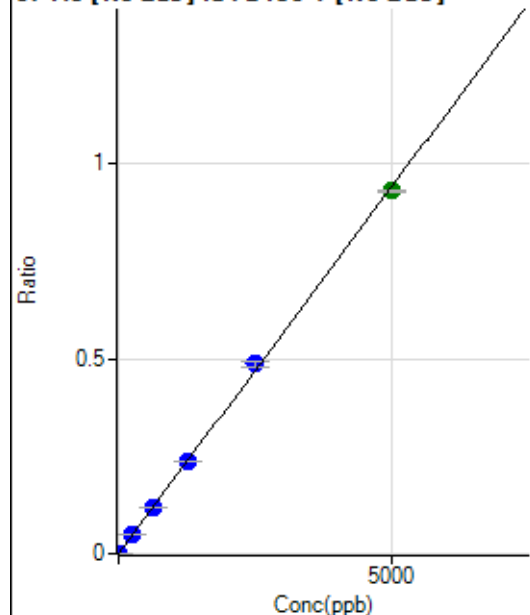
$$DL = 0.02659$$

$$BEC = 0.02929$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 33.33       | 0.0000 | P    | 23.9 |
| 2 | <input type="checkbox"/> | 5.000    | 4.768      | 11104.55    | 0.0009 | P    | 4.4  |
| 3 | <input type="checkbox"/> | 250.000  | 256.163    | 597190.02   | 0.0482 | P    | 1.0  |
| 4 | <input type="checkbox"/> | 625.000  | 639.511    | 1437477.87  | 0.1204 | P    | 0.3  |
| 5 | <input type="checkbox"/> | 1250.000 | 1263.954   | 2810765.45  | 0.2380 | P    | 0.6  |
| 6 | <input type="checkbox"/> | 2500.000 | 2591.241   | 5382414.27  | 0.4878 | P    | 2.7  |
| 7 | <input type="checkbox"/> | 5000.000 | 4948.769   | 10091927.66 | 0.9317 | A    | 0.3  |
| 8 | <input type="checkbox"/> |          |            | 2775.35     | 0.0003 | P    | 3.9  |

$$y = 1.8826E-004 * x + 2.6956E-006$$

$$R = 0.9997$$

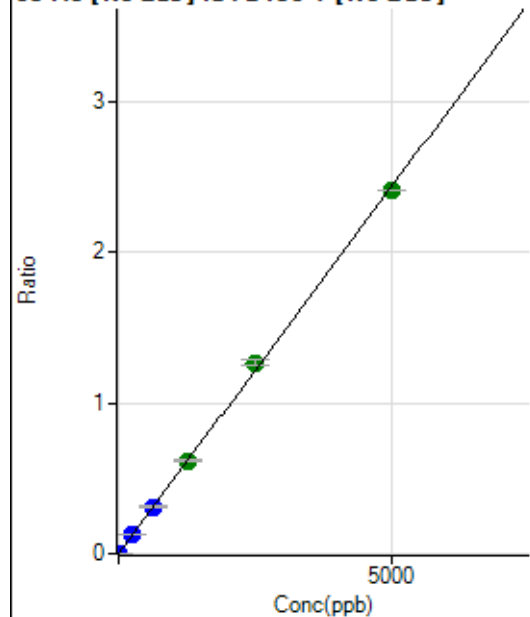
$$DL = 0.01027$$

$$BEC = 0.01432$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 97.23       | 0.0000 | P   | 12.1 |
| 2 | <input type="checkbox"/> | 5.000    | 4.869      | 29377.87    | 0.0024 | P   | 2.2  |
| 3 | <input type="checkbox"/> | 250.000  | 255.284    | 1540652.31  | 0.1244 | P   | 1.5  |
| 4 | <input type="checkbox"/> | 625.000  | 641.251    | 3731549.04  | 0.3125 | P   | 0.4  |
| 5 | <input type="checkbox"/> | 1250.000 | 1268.018   | 7299784.97  | 0.6180 | A   | 1.0  |
| 6 | <input type="checkbox"/> | 2500.000 | 2598.854   | 13973514.55 | 1.2666 | A   | 3.2  |
| 7 | <input type="checkbox"/> | 5000.000 | 4943.773   | 26099030.62 | 2.4094 | A   | 0.0  |
| 8 | <input type="checkbox"/> |          |            | 7410.44     | 0.0007 | P   | 3.4  |

$$y = 4.8736\text{E-}004 * x + 7.8699\text{E-}006$$

$$R = 0.9997$$

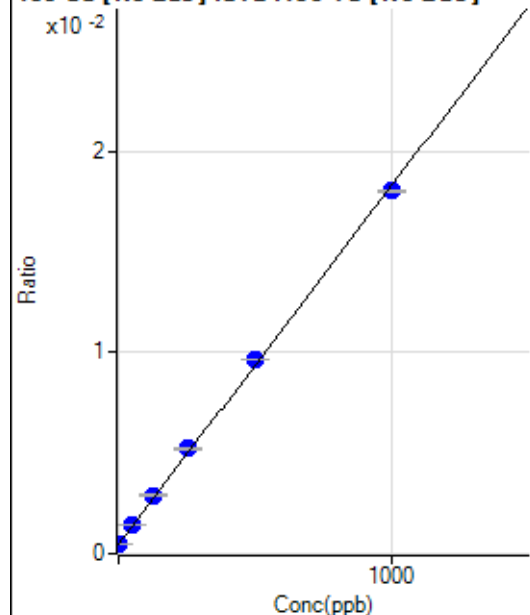
$$DL = 0.005869$$

$$BEC = 0.01615$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS       | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|-----------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 5729.08   | 0.0005 | P   | 6.4 |
| 2 | <input type="checkbox"/> | 1.000    | 1.115      | 5973.66   | 0.0005 | P   | 3.3 |
| 3 | <input type="checkbox"/> | 50.000   | 55.601     | 18212.02  | 0.0015 | P   | 2.1 |
| 4 | <input type="checkbox"/> | 125.000  | 136.214    | 35595.33  | 0.0029 | P   | 2.6 |
| 5 | <input type="checkbox"/> | 250.000  | 267.333    | 64008.04  | 0.0052 | P   | 1.7 |
| 6 | <input type="checkbox"/> | 500.000  | 516.569    | 114377.60 | 0.0097 | P   | 0.1 |
| 7 | <input type="checkbox"/> | 1000.000 | 985.700    | 211696.86 | 0.0180 | P   | 0.8 |
| 8 | <input type="checkbox"/> |          |            | 5098.27   | 0.0005 | P   | 3.9 |

$$y = 1.7817\text{E-}005 * x + 4.6378\text{E-}004$$

$$R = 0.9996$$

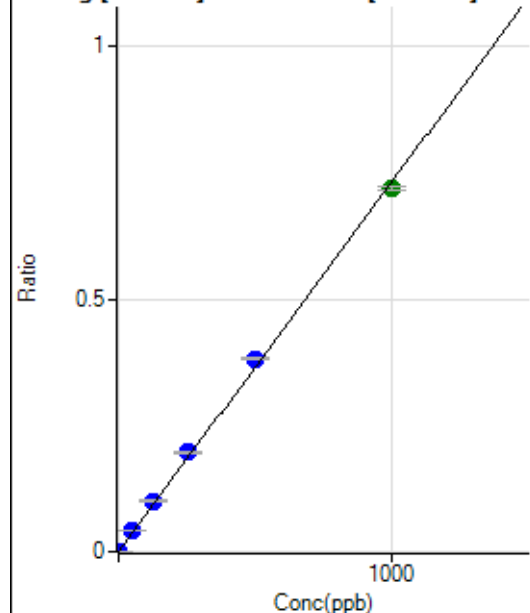
$$DL = 4.996$$

$$BEC = 26.03$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 355.57     | 0.0000 | P   | 32.2 |
| 2 | <input type="checkbox"/> | 1.000    | 1.064      | 9970.42    | 0.0008 | P   | 1.6  |
| 3 | <input type="checkbox"/> | 50.000   | 55.598     | 509450.25  | 0.0407 | P   | 0.3  |
| 4 | <input type="checkbox"/> | 125.000  | 137.365    | 1237404.22 | 0.1005 | P   | 0.9  |
| 5 | <input type="checkbox"/> | 250.000  | 268.184    | 2402155.24 | 0.1962 | P   | 0.7  |
| 6 | <input type="checkbox"/> | 500.000  | 522.182    | 4518287.69 | 0.3819 | P   | 0.8  |
| 7 | <input type="checkbox"/> | 1000.000 | 982.538    | 8438603.23 | 0.7186 | A   | 1.1  |
| 8 | <input type="checkbox"/> |          |            | 2072.44    | 0.0002 | P   | 3.3  |

$$y = 7.3130E-004 * x + 2.8741E-005$$

$$R = 0.9994$$

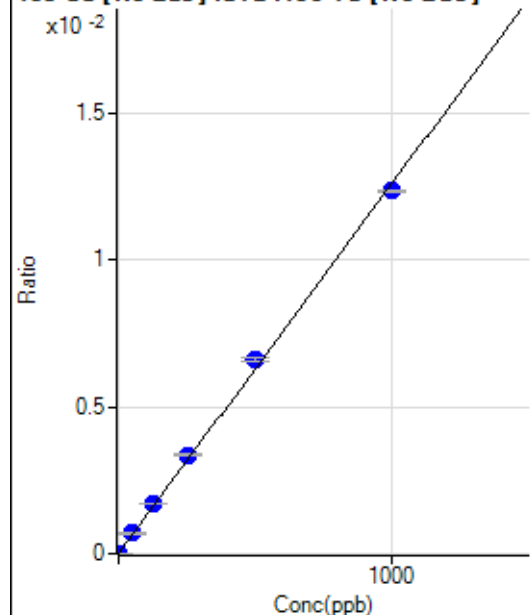
$$DL = 0.03802$$

$$BEC = 0.0393$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS       | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-----------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 36.11     | 0.0000 | P   | 63.7 |
| 2 | <input type="checkbox"/> | 1.000    | 1.215      | 225.01    | 0.0000 | P   | 3.6  |
| 3 | <input type="checkbox"/> | 50.000   | 54.484     | 8622.14   | 0.0007 | P   | 1.8  |
| 4 | <input type="checkbox"/> | 125.000  | 133.483    | 20722.21  | 0.0017 | P   | 0.8  |
| 5 | <input type="checkbox"/> | 250.000  | 267.523    | 41266.75  | 0.0034 | P   | 1.5  |
| 6 | <input type="checkbox"/> | 500.000  | 525.102    | 78218.95  | 0.0066 | P   | 1.6  |
| 7 | <input type="checkbox"/> | 1000.000 | 981.783    | 145145.59 | 0.0124 | P   | 0.4  |
| 8 | <input type="checkbox"/> |          |            | 125.00    | 0.0000 | P   | 26.8 |

$$y = 1.2585E-005 * x + 2.9221E-006$$

$$R = 0.9993$$

$$DL = 0.444$$

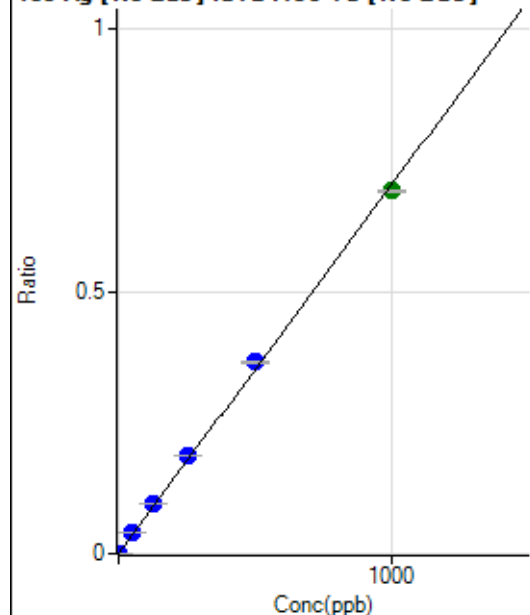
$$BEC = 0.2322$$

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      | 333.35     | 0.0000 | P   | 41.7 |
| 2 | <input type="checkbox"/> | 1.000    | 1.061      | 9536.78    | 0.0008 | P   | 2.9  |
| 3 | <input type="checkbox"/> | 50.000   | 55.996     | 492769.92  | 0.0394 | P   | 1.6  |
| 4 | <input type="checkbox"/> | 125.000  | 136.594    | 1181776.51 | 0.0960 | P   | 0.5  |
| 5 | <input type="checkbox"/> | 250.000  | 265.833    | 2286983.45 | 0.1867 | P   | 0.2  |
| 6 | <input type="checkbox"/> | 500.000  | 520.588    | 4326321.37 | 0.3657 | P   | 0.7  |
| 7 | <input type="checkbox"/> | 1000.000 | 983.999    | 8117044.63 | 0.6912 | A   | 0.6  |
| 8 | <input type="checkbox"/> |          |            | 2091.88    | 0.0002 | P   | 1.3  |

$$y = 7.0238\text{E-}004 * x + 2.6934\text{E-}005$$

$$R = 0.9995$$

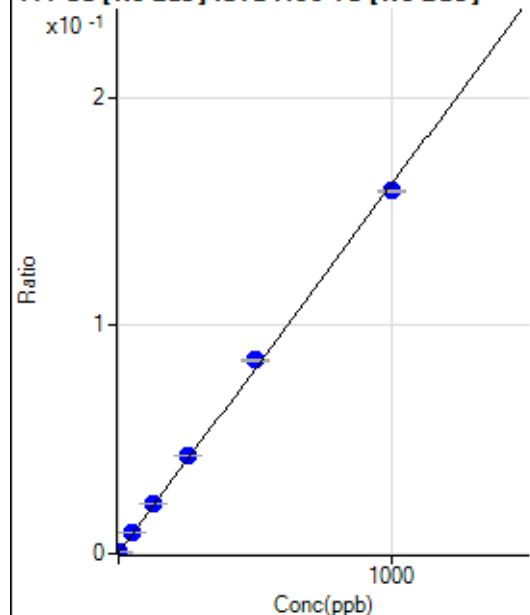
$$DL = 0.04802$$

$$BEC = 0.03835$$

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      | 3996.19    | 0.0003 | P   | 6.6 |
| 2 | <input type="checkbox"/> | 1.000    | 1.081      | 6149.24    | 0.0005 | P   | 5.2 |
| 3 | <input type="checkbox"/> | 50.000   | 55.181     | 115549.55  | 0.0092 | P   | 0.4 |
| 4 | <input type="checkbox"/> | 125.000  | 136.066    | 274387.52  | 0.0223 | P   | 0.4 |
| 5 | <input type="checkbox"/> | 250.000  | 265.357    | 528394.22  | 0.0431 | P   | 0.9 |
| 6 | <input type="checkbox"/> | 500.000  | 523.299    | 1002976.81 | 0.0848 | P   | 0.4 |
| 7 | <input type="checkbox"/> | 1000.000 | 982.869    | 1866626.83 | 0.1589 | P   | 0.3 |
| 8 | <input type="checkbox"/> |          |            | 3724.35    | 0.0003 | P   | 3.5 |

$$y = 1.6138\text{E-}004 * x + 3.2350\text{E-}004$$

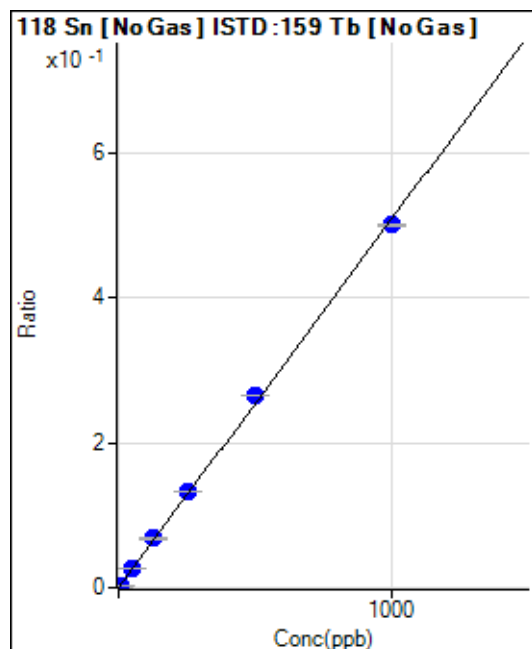
$$R = 0.9994$$

$$DL = 0.399$$

$$BEC = 2.005$$

Weight: &lt;None&gt;

Min Conc: 0



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD |
|---|--------------------------|----------|------------|------------|--------|------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 744.48     | 0.0001 | P    | 3.1 |
| 2 | <input type="checkbox"/> | 5.000    | 5.100      | 32707.96   | 0.0026 | P    | 2.0 |
| 3 | <input type="checkbox"/> | 50.000   | 53.583     | 341110.38  | 0.0272 | P    | 1.4 |
| 4 | <input type="checkbox"/> | 125.000  | 133.471    | 834572.72  | 0.0678 | P    | 0.9 |
| 5 | <input type="checkbox"/> | 250.000  | 261.595    | 1626004.41 | 0.1328 | P    | 1.1 |
| 6 | <input type="checkbox"/> | 500.000  | 521.557    | 3131259.47 | 0.2647 | P    | 0.2 |
| 7 | <input type="checkbox"/> | 1000.000 | 985.084    | 5869942.10 | 0.4998 | P    | 0.6 |
| 8 | <input type="checkbox"/> |          |            | 2147.45    | 0.0002 | P    | 5.7 |

$$y = 5.0733\text{E-}004 * x + 6.0294\text{E-}005$$

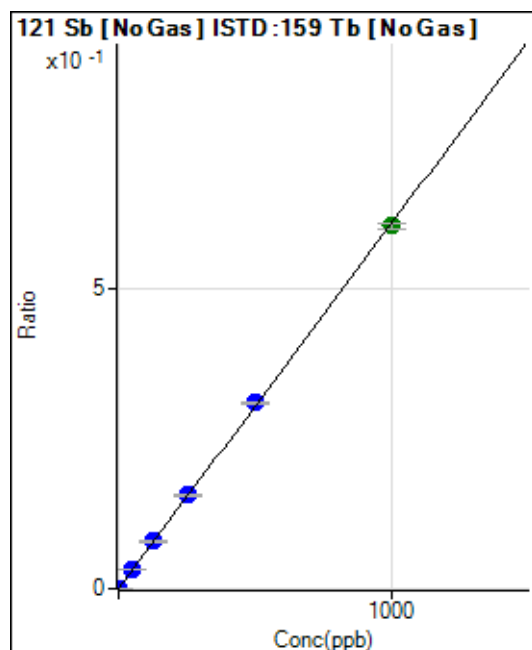
$$R = 0.9996$$

$$DL = 0.0111$$

$$BEC = 0.1188$$

Weight: <None>

Min Conc: 0



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 80.56      | 0.0000 | P    | 15.3 |
| 2 | <input type="checkbox"/> | 2.000    | 1.986      | 15013.93   | 0.0012 | P    | 2.5  |
| 3 | <input type="checkbox"/> | 50.000   | 51.996     | 396319.85  | 0.0317 | P    | 1.3  |
| 4 | <input type="checkbox"/> | 125.000  | 129.372    | 969731.00  | 0.0787 | P    | 0.7  |
| 5 | <input type="checkbox"/> | 250.000  | 255.564    | 1904974.15 | 0.1556 | P    | 0.9  |
| 6 | <input type="checkbox"/> | 500.000  | 509.014    | 3665419.57 | 0.3098 | P    | 0.8  |
| 7 | <input type="checkbox"/> | 1000.000 | 993.456    | 7100969.43 | 0.6047 | A    | 1.4  |
| 8 | <input type="checkbox"/> |          |            | 6562.85    | 0.0006 | P    | 5.8  |

$$y = 6.0865\text{E-}004 * x + 6.5198\text{E-}006$$

$$R = 0.9999$$

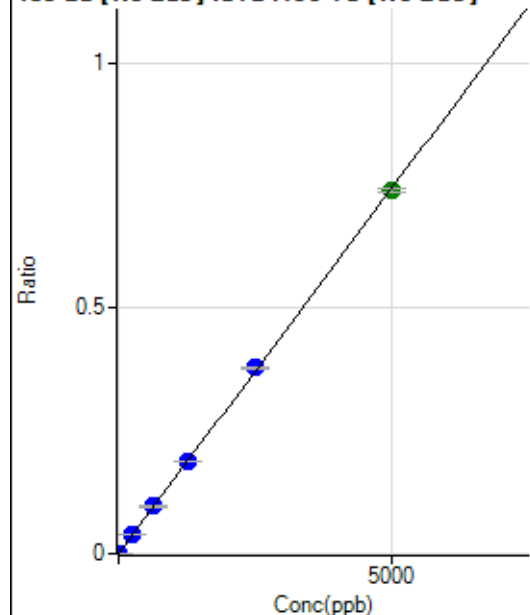
$$DL = 0.004902$$

$$BEC = 0.01071$$

Weight: <None>

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 63.89      | 0.0000 | P   | 20.6 |
| 2 | <input type="checkbox"/> | 10.000   | 10.286     | 18960.53   | 0.0015 | P   | 1.8  |
| 3 | <input type="checkbox"/> | 250.000  | 259.822    | 483821.36  | 0.0386 | P   | 1.2  |
| 4 | <input type="checkbox"/> | 625.000  | 645.742    | 1182572.67 | 0.0960 | P   | 0.9  |
| 5 | <input type="checkbox"/> | 1250.000 | 1267.826   | 2308897.58 | 0.1885 | P   | 1.1  |
| 6 | <input type="checkbox"/> | 2500.000 | 2544.647   | 4476943.33 | 0.3784 | P   | 0.8  |
| 7 | <input type="checkbox"/> | 5000.000 | 4970.136   | 8679793.51 | 0.7391 | A   | 1.0  |
| 8 | <input type="checkbox"/> |          |            | 2475.28    | 0.0002 | P   | 9.2  |

$$y = 1.4871E-004 * x + 5.1788E-006$$

$$R = 0.9999$$

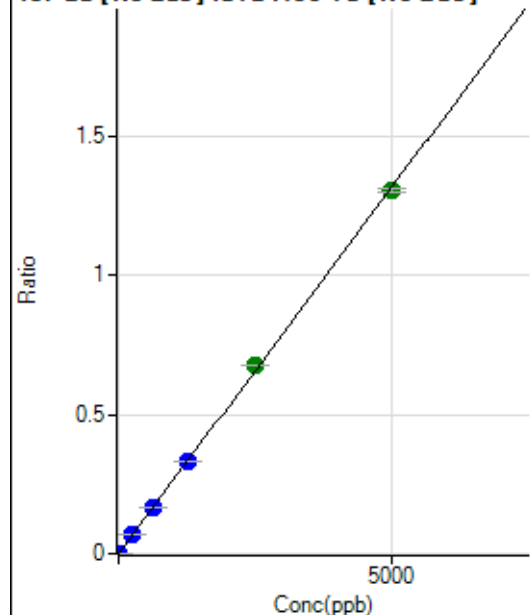
$$DL = 0.02149$$

$$BEC = 0.03483$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 113.89      | 0.0000 | P   | 10.6 |
| 2 | <input type="checkbox"/> | 10.000   | 10.103     | 32989.66    | 0.0027 | P   | 0.8  |
| 3 | <input type="checkbox"/> | 250.000  | 258.614    | 852994.37   | 0.0681 | P   | 0.4  |
| 4 | <input type="checkbox"/> | 625.000  | 639.704    | 2075019.30  | 0.1685 | P   | 0.8  |
| 5 | <input type="checkbox"/> | 1250.000 | 1262.959   | 4073892.49  | 0.3327 | P   | 1.0  |
| 6 | <input type="checkbox"/> | 2500.000 | 2578.182   | 8034268.32  | 0.6791 | A   | 0.6  |
| 7 | <input type="checkbox"/> | 5000.000 | 4955.400   | 15328281.59 | 1.3052 | A   | 1.0  |
| 8 | <input type="checkbox"/> |          |            | 4323.00     | 0.0004 | P   | 5.9  |

$$y = 2.6339E-004 * x + 9.2188E-006$$

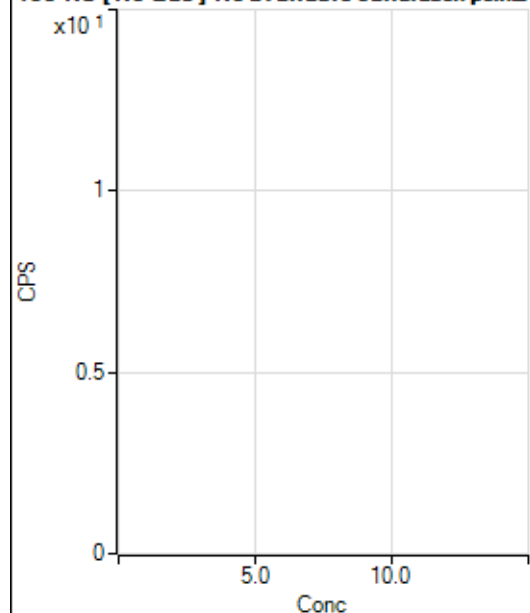
$$R = 0.9998$$

$$DL = 0.01117$$

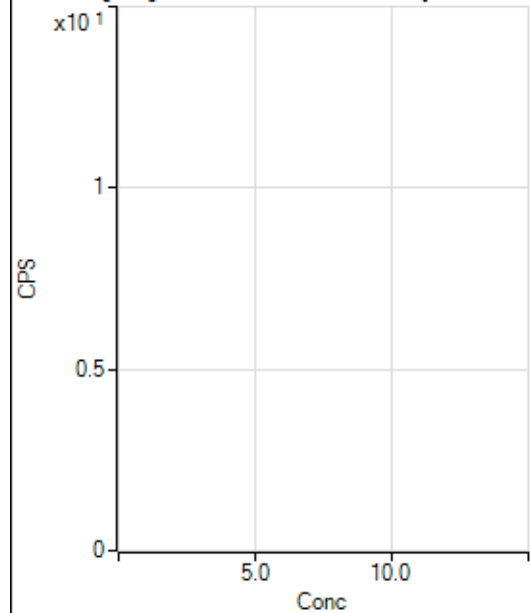
$$BEC = 0.035$$

Weight: &lt;None&gt;

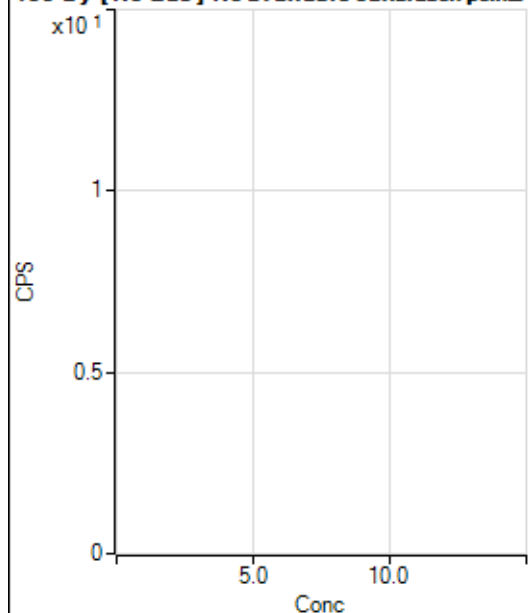
Min Conc: 0

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

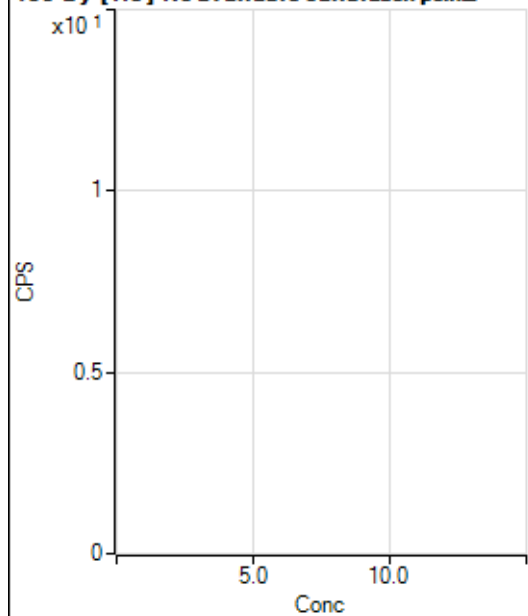
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD   |
|---|--------------------------|-------|------------|--------|-------|----------|-------|
| 1 | <input type="checkbox"/> |       |            | 4.44   |       | P        | 173.2 |
| 2 | <input type="checkbox"/> |       |            | 4.45   |       | P        | 86.6  |
| 3 | <input type="checkbox"/> |       |            | 75.56  |       | P        | 45.3  |
| 4 | <input type="checkbox"/> |       |            | 84.45  |       | P        | 37.3  |
| 5 | <input type="checkbox"/> |       |            | 251.12 |       | P        | 12.5  |
| 6 | <input type="checkbox"/> |       |            | 451.13 |       | P        | 0.9   |
| 7 | <input type="checkbox"/> |       |            | 786.71 |       | P        | 11.1  |
| 8 | <input type="checkbox"/> |       |            | 22.22  |       | P        | 96.4  |

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

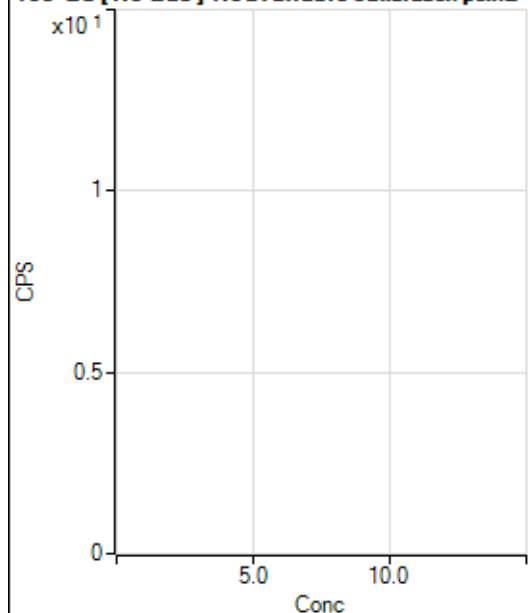
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD   |
|---|--------------------------|-------|------------|--------|-------|----------|-------|
| 1 | <input type="checkbox"/> |       |            | 1.11   |       | P        | 173.2 |
| 2 | <input type="checkbox"/> |       |            | 0.00   |       | P        |       |
| 3 | <input type="checkbox"/> |       |            | 8.89   |       | P        | 57.3  |
| 4 | <input type="checkbox"/> |       |            | 22.22  |       | P        | 8.7   |
| 5 | <input type="checkbox"/> |       |            | 32.22  |       | P        | 15.8  |
| 6 | <input type="checkbox"/> |       |            | 71.11  |       | P        | 41.0  |
| 7 | <input type="checkbox"/> |       |            | 115.56 |       | P        | 18.5  |
| 8 | <input type="checkbox"/> |       |            | 14.44  |       | P        | 35.3  |

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

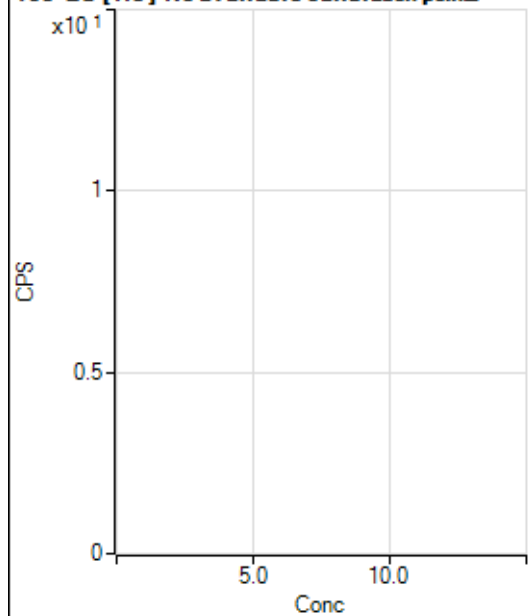
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS     | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|---------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 11.11   |       | P        | 86.6 |
| 2 | <input type="checkbox"/> |       |            | 5.55    |       | P        | 86.6 |
| 3 | <input type="checkbox"/> |       |            | 36.11   |       | P        | 58.1 |
| 4 | <input type="checkbox"/> |       |            | 94.45   |       | P        | 18.4 |
| 5 | <input type="checkbox"/> |       |            | 175.01  |       | P        | 29.7 |
| 6 | <input type="checkbox"/> |       |            | 316.68  |       | P        | 5.3  |
| 7 | <input type="checkbox"/> |       |            | 544.47  |       | P        | 13.2 |
| 8 | <input type="checkbox"/> |       |            | 1308.43 |       | P        | 9.3  |

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

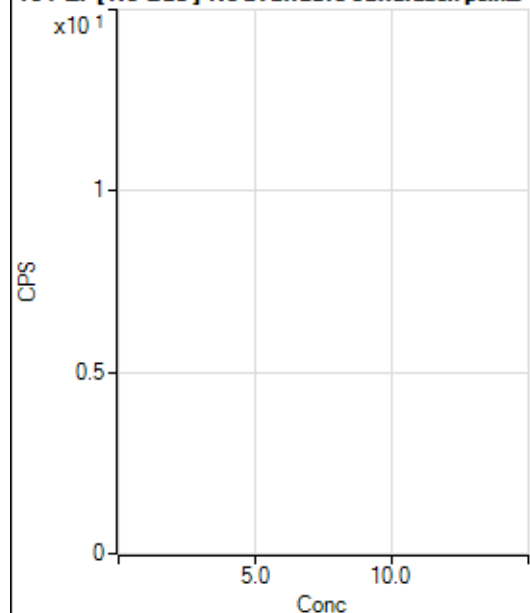
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 6.67   |       | P        | 50.0 |
| 2 | <input type="checkbox"/> |       |            | 0.00   |       | P        |      |
| 3 | <input type="checkbox"/> |       |            | 30.00  |       | P        | 48.4 |
| 4 | <input type="checkbox"/> |       |            | 72.22  |       | P        | 41.9 |
| 5 | <input type="checkbox"/> |       |            | 112.22 |       | P        | 29.8 |
| 6 | <input type="checkbox"/> |       |            | 214.45 |       | P        | 4.7  |
| 7 | <input type="checkbox"/> |       |            | 390.01 |       | P        | 2.3  |
| 8 | <input type="checkbox"/> |       |            | 876.70 |       | P        | 1.7  |

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

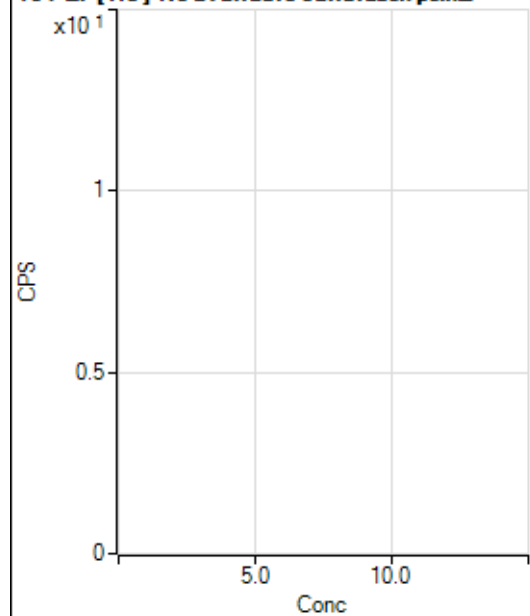
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS     | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|---------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 50.00   |       | P        | 16.7 |
| 2 | <input type="checkbox"/> |       |            | 41.67   |       | P        | 34.6 |
| 3 | <input type="checkbox"/> |       |            | 75.00   |       | P        | 19.3 |
| 4 | <input type="checkbox"/> |       |            | 116.67  |       | P        | 18.9 |
| 5 | <input type="checkbox"/> |       |            | 175.00  |       | P        | 14.3 |
| 6 | <input type="checkbox"/> |       |            | 258.34  |       | P        | 18.0 |
| 7 | <input type="checkbox"/> |       |            | 469.46  |       | P        | 9.1  |
| 8 | <input type="checkbox"/> |       |            | 1472.34 |       | P        | 2.8  |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS     | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|---------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 157.78  |       | P        | 12.7 |
| 2 | <input type="checkbox"/> |       |            | 172.23  |       | P        | 16.7 |
| 3 | <input type="checkbox"/> |       |            | 217.78  |       | P        | 7.9  |
| 4 | <input type="checkbox"/> |       |            | 205.56  |       | P        | 10.4 |
| 5 | <input type="checkbox"/> |       |            | 261.12  |       | P        | 2.9  |
| 6 | <input type="checkbox"/> |       |            | 316.68  |       | P        | 10.2 |
| 7 | <input type="checkbox"/> |       |            | 442.23  |       | P        | 9.1  |
| 8 | <input type="checkbox"/> |       |            | 1137.84 |       | P        | 2.8  |

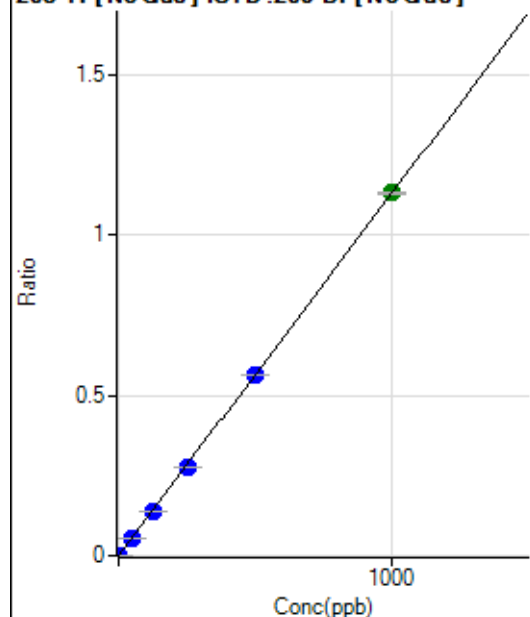
**164 Er [ No Gas ] No available calibration points**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 86.11  |       | P        | 34.0 |
| 2 | <input type="checkbox"/> |       |            | 86.11  |       | P        | 47.7 |
| 3 | <input type="checkbox"/> |       |            | 94.45  |       | P        | 18.4 |
| 4 | <input type="checkbox"/> |       |            | 77.78  |       | P        | 34.4 |
| 5 | <input type="checkbox"/> |       |            | 80.56  |       | P        | 43.1 |
| 6 | <input type="checkbox"/> |       |            | 113.89 |       | P        | 15.2 |
| 7 | <input type="checkbox"/> |       |            | 158.34 |       | P        | 22.9 |
| 8 | <input type="checkbox"/> |       |            | 252.79 |       | P        | 3.8  |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 46.67  |       | P        | 32.7 |
| 2 | <input type="checkbox"/> |       |            | 42.22  |       | P        | 47.6 |
| 3 | <input type="checkbox"/> |       |            | 55.56  |       | P        | 13.9 |
| 4 | <input type="checkbox"/> |       |            | 72.22  |       | P        | 7.0  |
| 5 | <input type="checkbox"/> |       |            | 58.89  |       | P        | 8.6  |
| 6 | <input type="checkbox"/> |       |            | 78.89  |       | P        | 29.7 |
| 7 | <input type="checkbox"/> |       |            | 111.11 |       | P        | 20.4 |
| 8 | <input type="checkbox"/> |       |            | 157.78 |       | P        | 12.7 |

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 186.12     | 0.0000 | P   | 11.3 |
| 2 | <input type="checkbox"/> | 1.000    | 0.972      | 9648.15    | 0.0011 | P   | 1.9  |
| 3 | <input type="checkbox"/> | 50.000   | 49.286     | 485353.75  | 0.0556 | P   | 1.1  |
| 4 | <input type="checkbox"/> | 125.000  | 121.561    | 1175757.79 | 0.1371 | P   | 1.5  |
| 5 | <input type="checkbox"/> | 250.000  | 245.898    | 2348017.28 | 0.2774 | P   | 0.9  |
| 6 | <input type="checkbox"/> | 500.000  | 498.082    | 4604167.46 | 0.5619 | P   | 0.5  |
| 7 | <input type="checkbox"/> | 1000.000 | 1002.450   | 9151219.13 | 1.1308 | A   | 0.5  |
| 8 | <input type="checkbox"/> |          |            | 2908.75    | 0.0004 | P   | 17.8 |

$$y = 0.0011 * x + 2.1531E-005$$

$$R = 1.0000$$

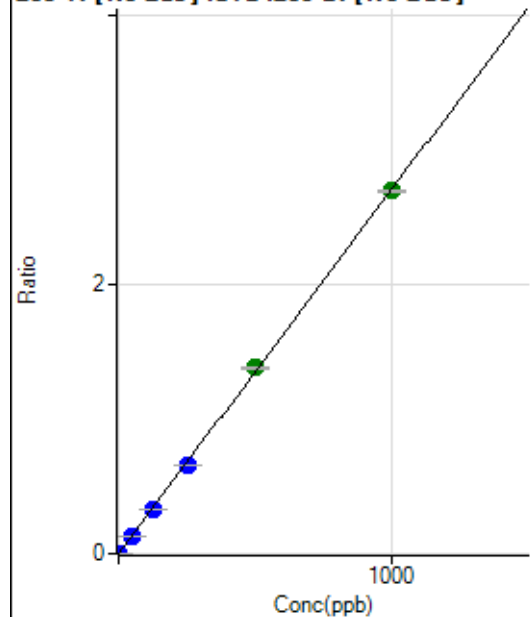
$$DL = 0.006485$$

$$BEC = 0.01909$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 480.57      | 0.0001 | P   | 5.3  |
| 2 | <input type="checkbox"/> | 1.000    | 0.932      | 22199.59    | 0.0026 | P   | 0.3  |
| 3 | <input type="checkbox"/> | 50.000   | 48.795     | 1151030.60  | 0.1319 | P   | 0.8  |
| 4 | <input type="checkbox"/> | 125.000  | 121.724    | 2820096.75  | 0.3289 | P   | 1.7  |
| 5 | <input type="checkbox"/> | 250.000  | 243.712    | 5574220.87  | 0.6586 | P   | 0.8  |
| 6 | <input type="checkbox"/> | 500.000  | 510.787    | 11308428.29 | 1.3802 | A   | 1.6  |
| 7 | <input type="checkbox"/> | 1000.000 | 996.649    | 21792278.61 | 2.6930 | A   | 0.8  |
| 8 | <input type="checkbox"/> |          |            | 7221.58     | 0.0010 | P   | 15.6 |

$$y = 0.0027 * x + 5.5575E-005$$

$$R = 0.9999$$

$$DL = 0.003293$$

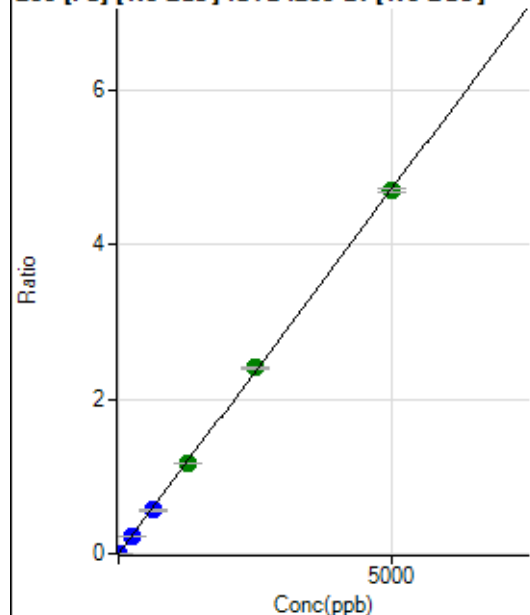
$$BEC = 0.02057$$

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      | 1709.40     | 0.0002 | P   | 7.0 |
| 2 | <input type="checkbox"/> | 1.000    | 0.949      | 9440.54     | 0.0011 | P   | 2.1 |
| 3 | <input type="checkbox"/> | 250.000  | 239.339    | 1973407.35  | 0.2261 | P   | 1.1 |
| 4 | <input type="checkbox"/> | 625.000  | 596.069    | 4825673.89  | 0.5629 | P   | 1.2 |
| 5 | <input type="checkbox"/> | 1250.000 | 1245.245   | 9951598.03  | 1.1757 | A   | 1.0 |
| 6 | <input type="checkbox"/> | 2500.000 | 2554.175   | 19758631.23 | 2.4114 | A   | 1.1 |
| 7 | <input type="checkbox"/> | 5000.000 | 4978.251   | 38031984.18 | 4.6998 | A   | 1.0 |
| 8 | <input type="checkbox"/> |          |            | 19375.44    | 0.0027 | P   | 4.5 |

$$y = 9.4403\text{E-}004 * x + 1.9764\text{E-}004$$

$$R = 0.9999$$

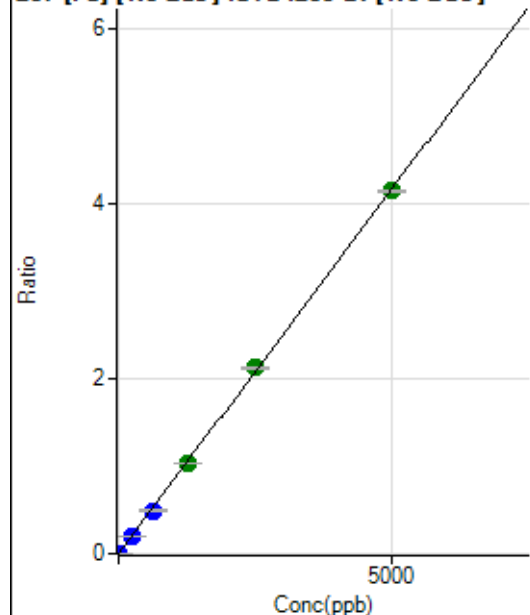
$$DL = 0.04417$$

$$BEC = 0.2094$$

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      | 1392.69     | 0.0002 | P   | 10.0 |
| 2 | <input type="checkbox"/> | 1.000    | 0.916      | 7980.31     | 0.0009 | P   | 1.3  |
| 3 | <input type="checkbox"/> | 250.000  | 236.449    | 1721753.34  | 0.1973 | P   | 1.4  |
| 4 | <input type="checkbox"/> | 625.000  | 588.895    | 4210440.52  | 0.4912 | P   | 1.9  |
| 5 | <input type="checkbox"/> | 1250.000 | 1249.644   | 8820235.44  | 1.0421 | A   | 0.5  |
| 6 | <input type="checkbox"/> | 2500.000 | 2548.008   | 17409179.09 | 2.1246 | A   | 0.7  |
| 7 | <input type="checkbox"/> | 5000.000 | 4981.276   | 33610791.72 | 4.1534 | A   | 0.7  |
| 8 | <input type="checkbox"/> |          |            | 16948.03    | 0.0023 | P   | 3.0  |

$$y = 8.3377\text{E-}004 * x + 1.6090\text{E-}004$$

$$R = 0.9999$$

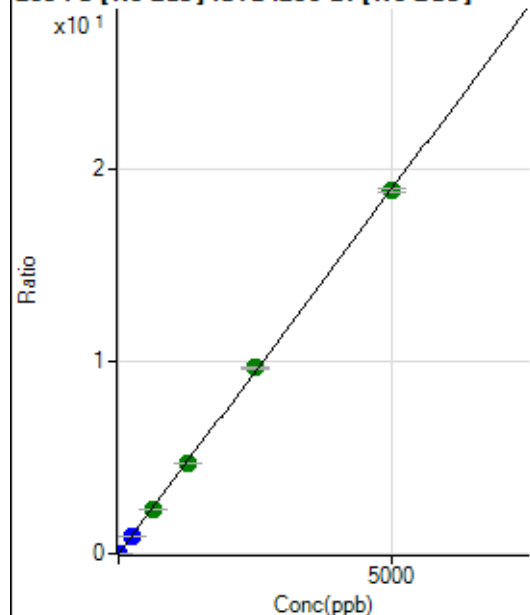
$$DL = 0.05768$$

$$BEC = 0.193$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS         | Ratio   | Det. | RSD |
|---|--------------------------|----------|------------|-------------|---------|------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 6428.50     | 0.0007  | P    | 4.6 |
| 2 | <input type="checkbox"/> | 1.000    | 0.925      | 36605.26    | 0.0042  | P    | 0.7 |
| 3 | <input type="checkbox"/> | 250.000  | 237.938    | 7858803.98  | 0.9006  | P    | 1.2 |
| 4 | <input type="checkbox"/> | 625.000  | 610.035    | 19783841.96 | 2.3078  | A    | 1.4 |
| 5 | <input type="checkbox"/> | 1250.000 | 1245.388   | 39870293.66 | 4.7105  | A    | 0.5 |
| 6 | <input type="checkbox"/> | 2500.000 | 2551.160   | 79058950.15 | 9.6487  | A    | 1.2 |
| 7 | <input type="checkbox"/> | 5000.000 | 4978.047   | 152349898.0 | 18.8266 | A    | 0.9 |
| 8 | <input type="checkbox"/> |          |            | 76430.36    | 0.0105  | P    | 2.4 |

$$y = 0.0038 * x + 7.4293E-004$$

$$R = 0.9999$$

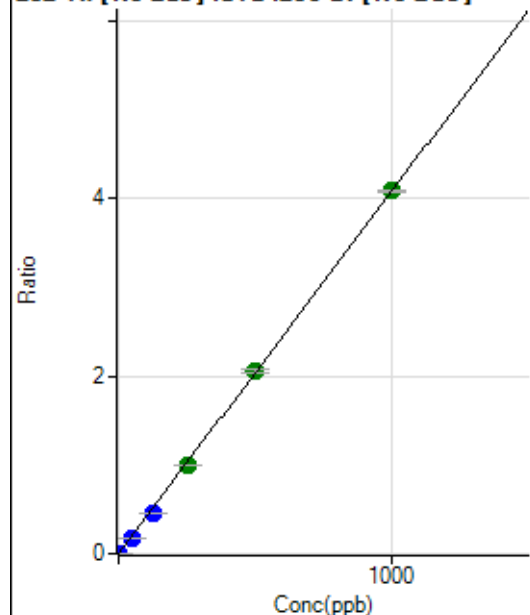
$$DL = 0.02695$$

$$BEC = 0.1965$$

Weight: &lt;None&gt;

Min Conc: 0

232 Th [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      | 179.63      | 0.0000 | P    | 15.3 |
| 2 | <input type="checkbox"/> | 1.000    | -0.001     | 133.34      | 0.0000 | P    | 15.5 |
| 3 | <input type="checkbox"/> | 50.000   | 43.598     | 1552059.41  | 0.1779 | P    | 0.8  |
| 4 | <input type="checkbox"/> | 125.000  | 109.730    | 3837248.15  | 0.4476 | P    | 1.5  |
| 5 | <input type="checkbox"/> | 250.000  | 243.977    | 8423286.88  | 0.9952 | A    | 0.7  |
| 6 | <input type="checkbox"/> | 500.000  | 504.001    | 16843948.18 | 2.0558 | A    | 1.7  |
| 7 | <input type="checkbox"/> | 1000.000 | 1001.735   | 33065878.75 | 4.0860 | A    | 0.7  |
| 8 | <input type="checkbox"/> |          |            | 3063.39     | 0.0004 | P    | 13.7 |

$$y = 0.0041 * x + 2.0762E-005$$

$$R = 0.9999$$

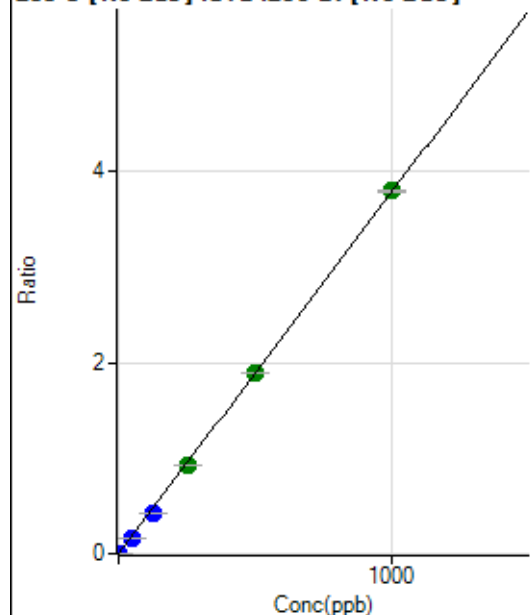
$$DL = 0.002332$$

$$BEC = 0.00509$$

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      | 55.56       | 0.0000 | P   | 68.3 |
| 2 | <input type="checkbox"/> | 1.000    | 0.843      | 27575.40    | 0.0032 | P   | 2.4  |
| 3 | <input type="checkbox"/> | 50.000   | 44.245     | 1461690.05  | 0.1675 | P   | 0.7  |
| 4 | <input type="checkbox"/> | 125.000  | 111.207    | 3609225.77  | 0.4210 | P   | 0.9  |
| 5 | <input type="checkbox"/> | 250.000  | 244.350    | 7829253.64  | 0.9250 | A   | 0.6  |
| 6 | <input type="checkbox"/> | 500.000  | 499.279    | 15486942.19 | 1.8900 | A   | 0.6  |
| 7 | <input type="checkbox"/> | 1000.000 | 1003.785   | 30749878.99 | 3.7998 | A   | 0.3  |
| 8 | <input type="checkbox"/> |          |            | 2880.97     | 0.0004 | P   | 2.6  |

$$y = 0.0038 * x + 6.4513E-006$$

$$R = 0.9999$$

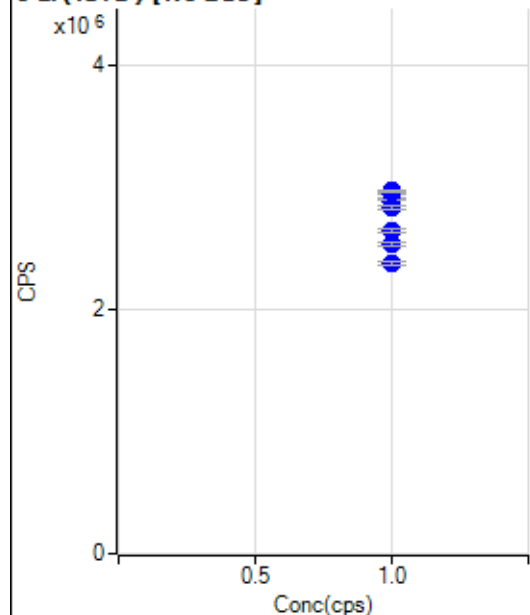
$$DL = 0.003493$$

$$BEC = 0.001704$$

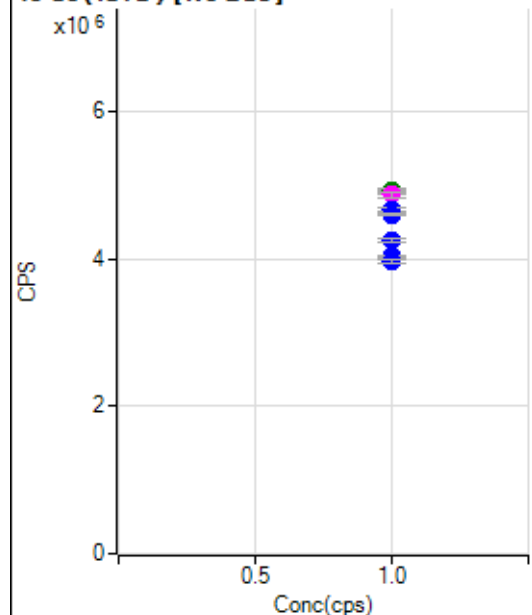
Weight: &lt;None&gt;

Min Conc: 0

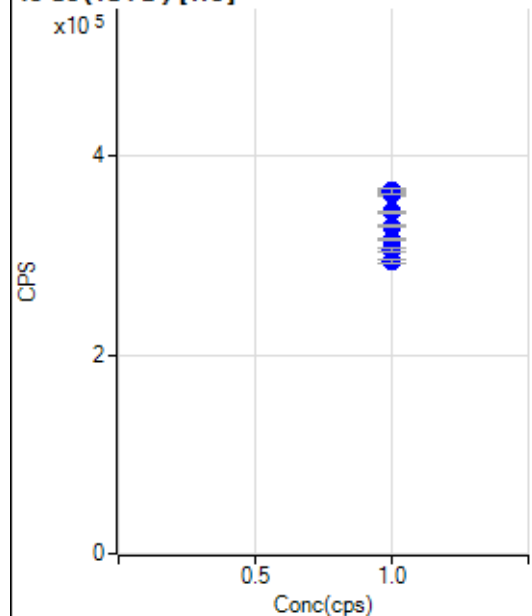
6 Li (ISTD) [No Gas]



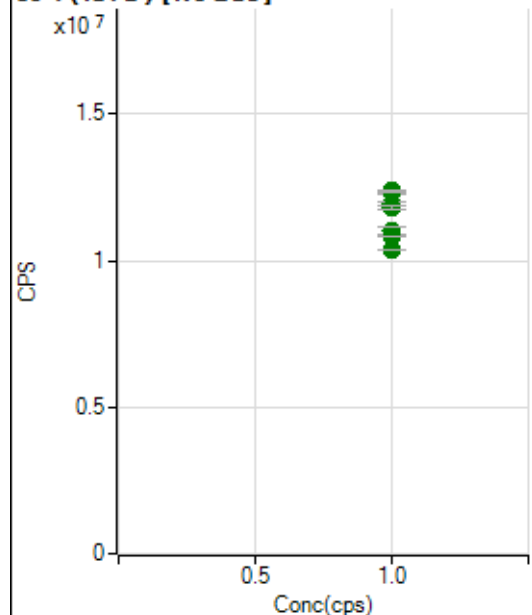
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det | RSD |
|---|--------------------------|-------|------------|------------|-------|-----|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 2954051.03 |       | P   | 0.6 |
| 2 | <input type="checkbox"/> | 1.000 |            | 2953217.04 |       | P   | 2.4 |
| 3 | <input type="checkbox"/> | 1.000 |            | 2976020.44 |       | P   | 0.8 |
| 4 | <input type="checkbox"/> | 1.000 |            | 2880395.37 |       | P   | 1.3 |
| 5 | <input type="checkbox"/> | 1.000 |            | 2843514.89 |       | P   | 1.3 |
| 6 | <input type="checkbox"/> | 1.000 |            | 2647086.32 |       | P   | 1.4 |
| 7 | <input type="checkbox"/> | 1.000 |            | 2536318.37 |       | P   | 1.4 |
| 8 | <input type="checkbox"/> | 1.000 |            | 2386048.80 |       | P   | 1.6 |

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

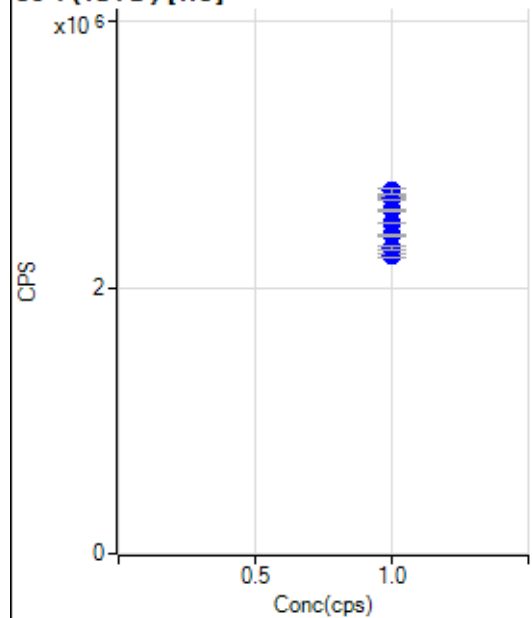
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 4912576.21 |       | M        | 1.1 |
| 2 | <input type="checkbox"/> | 1.000 |            | 4929528.19 |       | A        | 0.9 |
| 3 | <input type="checkbox"/> | 1.000 |            | 4874361.49 |       | M        | 1.8 |
| 4 | <input type="checkbox"/> | 1.000 |            | 4678518.33 |       | P        | 1.4 |
| 5 | <input type="checkbox"/> | 1.000 |            | 4607350.07 |       | P        | 0.5 |
| 6 | <input type="checkbox"/> | 1.000 |            | 4263005.15 |       | P        | 1.6 |
| 7 | <input type="checkbox"/> | 1.000 |            | 4037561.02 |       | P        | 0.9 |
| 8 | <input type="checkbox"/> | 1.000 |            | 3970053.86 |       | P        | 1.1 |

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

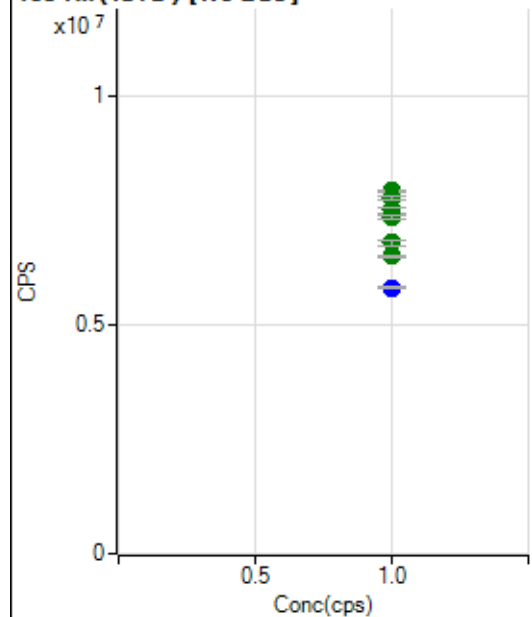
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS       | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-----------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 361697.89 |       | P        | 1.1 |
| 2 | <input type="checkbox"/> | 1.000 |            | 363883.72 |       | P        | 0.8 |
| 3 | <input type="checkbox"/> | 1.000 |            | 365411.44 |       | P        | 1.4 |
| 4 | <input type="checkbox"/> | 1.000 |            | 343824.62 |       | P        | 0.7 |
| 5 | <input type="checkbox"/> | 1.000 |            | 329411.02 |       | P        | 0.5 |
| 6 | <input type="checkbox"/> | 1.000 |            | 316430.81 |       | P        | 0.6 |
| 7 | <input type="checkbox"/> | 1.000 |            | 294375.95 |       | P        | 1.7 |
| 8 | <input type="checkbox"/> | 1.000 |            | 306624.01 |       | P        | 1.2 |

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

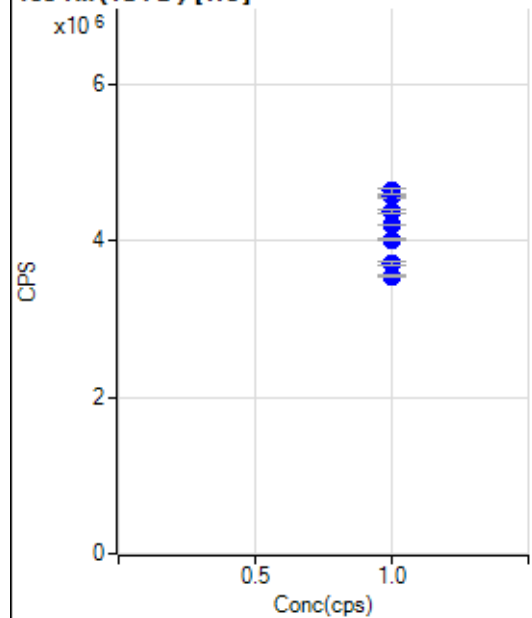
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 12344477.45 |       | A        | 1.1 |
| 2 | <input type="checkbox"/> | 1.000 |            | 12338130.51 |       | A        | 0.9 |
| 3 | <input type="checkbox"/> | 1.000 |            | 12383107.73 |       | A        | 0.6 |
| 4 | <input type="checkbox"/> | 1.000 |            | 11939563.01 |       | A        | 1.1 |
| 5 | <input type="checkbox"/> | 1.000 |            | 11812331.21 |       | A        | 0.7 |
| 6 | <input type="checkbox"/> | 1.000 |            | 11037703.45 |       | A        | 2.3 |
| 7 | <input type="checkbox"/> | 1.000 |            | 10832146.37 |       | A        | 0.2 |
| 8 | <input type="checkbox"/> | 1.000 |            | 10381254.85 |       | A        | 0.2 |

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

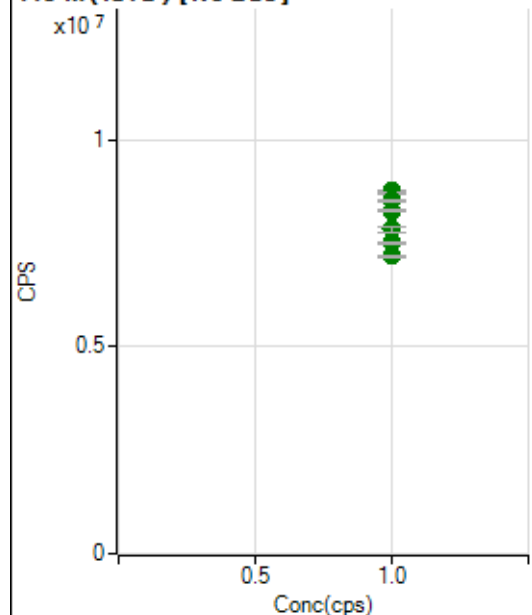
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 2679687.83 |       | P        | 0.6 |
| 2 | <input type="checkbox"/> | 1.000 |            | 2672857.04 |       | P        | 1.0 |
| 3 | <input type="checkbox"/> | 1.000 |            | 2724484.60 |       | P        | 1.5 |
| 4 | <input type="checkbox"/> | 1.000 |            | 2577840.76 |       | P        | 0.9 |
| 5 | <input type="checkbox"/> | 1.000 |            | 2483139.82 |       | P        | 0.5 |
| 6 | <input type="checkbox"/> | 1.000 |            | 2391231.96 |       | P        | 0.6 |
| 7 | <input type="checkbox"/> | 1.000 |            | 2245480.83 |       | P        | 1.3 |
| 8 | <input type="checkbox"/> | 1.000 |            | 2295284.90 |       | P        | 0.9 |

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

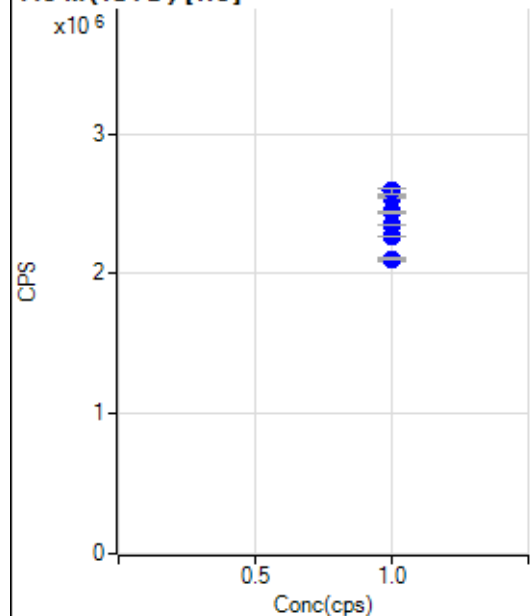
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 7940434.81 |       | A        | 0.6 |
| 2 | <input type="checkbox"/> | 1.000 |            | 7831497.80 |       | A        | 1.8 |
| 3 | <input type="checkbox"/> | 1.000 |            | 7794842.87 |       | A        | 1.2 |
| 4 | <input type="checkbox"/> | 1.000 |            | 7518638.36 |       | A        | 1.4 |
| 5 | <input type="checkbox"/> | 1.000 |            | 7365996.49 |       | A        | 1.0 |
| 6 | <input type="checkbox"/> | 1.000 |            | 6800096.56 |       | A        | 1.6 |
| 7 | <input type="checkbox"/> | 1.000 |            | 6510443.24 |       | A        | 0.8 |
| 8 | <input type="checkbox"/> | 1.000 |            | 5817790.33 |       | P        | 0.8 |

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

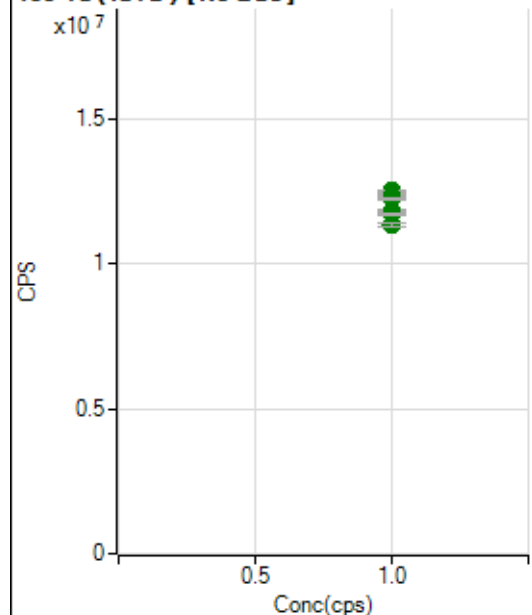
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 4586339.86 |       | P        | 0.6 |
| 2 | <input type="checkbox"/> | 1.000 |            | 4571729.97 |       | P        | 1.0 |
| 3 | <input type="checkbox"/> | 1.000 |            | 4635384.41 |       | P        | 1.4 |
| 4 | <input type="checkbox"/> | 1.000 |            | 4378540.04 |       | P        | 0.9 |
| 5 | <input type="checkbox"/> | 1.000 |            | 4201074.24 |       | P        | 0.3 |
| 6 | <input type="checkbox"/> | 1.000 |            | 4012867.44 |       | P        | 0.4 |
| 7 | <input type="checkbox"/> | 1.000 |            | 3714636.16 |       | P        | 1.3 |
| 8 | <input type="checkbox"/> | 1.000 |            | 3545841.96 |       | P        | 0.7 |

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

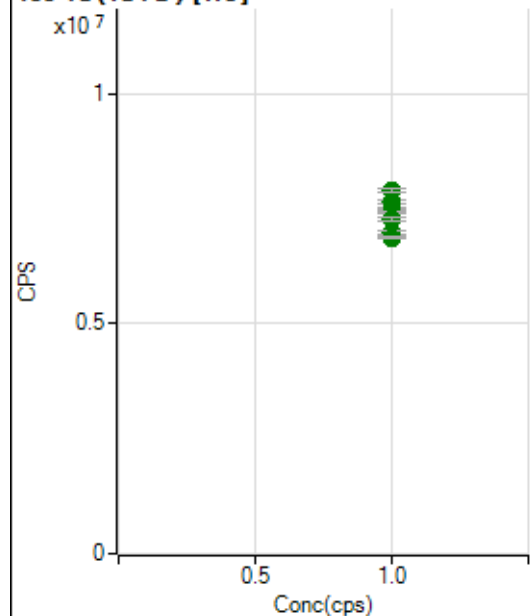
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 8768844.64 |       | A        | 0.6 |
| 2 | <input type="checkbox"/> | 1.000 |            | 8733917.42 |       | A        | 1.5 |
| 3 | <input type="checkbox"/> | 1.000 |            | 8733613.69 |       | A        | 0.5 |
| 4 | <input type="checkbox"/> | 1.000 |            | 8530553.43 |       | A        | 1.0 |
| 5 | <input type="checkbox"/> | 1.000 |            | 8293356.35 |       | A        | 0.6 |
| 6 | <input type="checkbox"/> | 1.000 |            | 7850193.70 |       | A        | 1.7 |
| 7 | <input type="checkbox"/> | 1.000 |            | 7513442.54 |       | A        | 1.0 |
| 8 | <input type="checkbox"/> | 1.000 |            | 7190554.68 |       | A        | 0.8 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 2550814.85 |       | P        | 0.3 |
| 2 | <input type="checkbox"/> | 1.000 |            | 2544401.18 |       | P        | 0.5 |
| 3 | <input type="checkbox"/> | 1.000 |            | 2592590.11 |       | P        | 1.5 |
| 4 | <input type="checkbox"/> | 1.000 |            | 2440258.76 |       | P        | 0.3 |
| 5 | <input type="checkbox"/> | 1.000 |            | 2353253.00 |       | P        | 0.2 |
| 6 | <input type="checkbox"/> | 1.000 |            | 2269120.18 |       | P        | 0.4 |
| 7 | <input type="checkbox"/> | 1.000 |            | 2097596.82 |       | P        | 1.3 |
| 8 | <input type="checkbox"/> | 1.000 |            | 2104941.51 |       | P        | 0.5 |

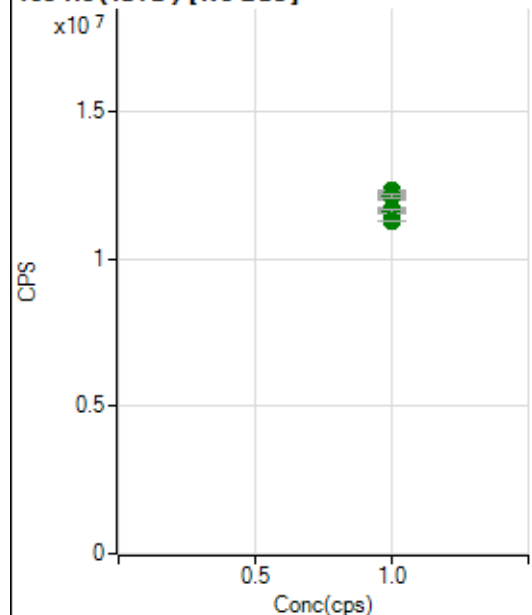
**159 Tb (ISTD) [No Gas]**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 12349613.98 |       | A        | 0.8 |
| 2 | <input type="checkbox"/> | 1.000 |            | 12356148.43 |       | A        | 2.0 |
| 3 | <input type="checkbox"/> | 1.000 |            | 12520885.09 |       | A        | 0.6 |
| 4 | <input type="checkbox"/> | 1.000 |            | 12314062.73 |       | A        | 0.6 |
| 5 | <input type="checkbox"/> | 1.000 |            | 12246559.40 |       | A        | 0.4 |
| 6 | <input type="checkbox"/> | 1.000 |            | 11831224.82 |       | A        | 0.6 |
| 7 | <input type="checkbox"/> | 1.000 |            | 11744168.44 |       | A        | 0.6 |
| 8 | <input type="checkbox"/> | 1.000 |            | 11326974.55 |       | A        | 1.1 |

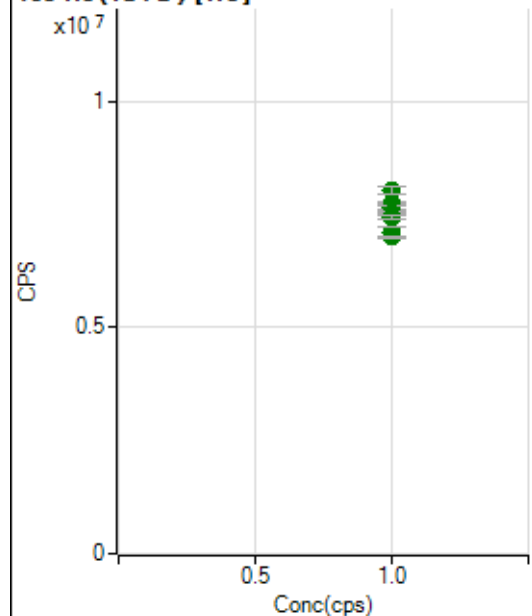
**159 Tb (ISTD) [He]**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 7655662.59 |       | A        | 1.2 |
| 2 | <input type="checkbox"/> | 1.000 |            | 7604302.53 |       | A        | 0.3 |
| 3 | <input type="checkbox"/> | 1.000 |            | 7890852.03 |       | A        | 1.1 |
| 4 | <input type="checkbox"/> | 1.000 |            | 7519158.36 |       | A        | 0.6 |
| 5 | <input type="checkbox"/> | 1.000 |            | 7430598.64 |       | A        | 0.6 |
| 6 | <input type="checkbox"/> | 1.000 |            | 7284393.43 |       | A        | 0.8 |
| 7 | <input type="checkbox"/> | 1.000 |            | 7000683.44 |       | A        | 1.1 |
| 8 | <input type="checkbox"/> | 1.000 |            | 6874046.84 |       | A        | 0.2 |

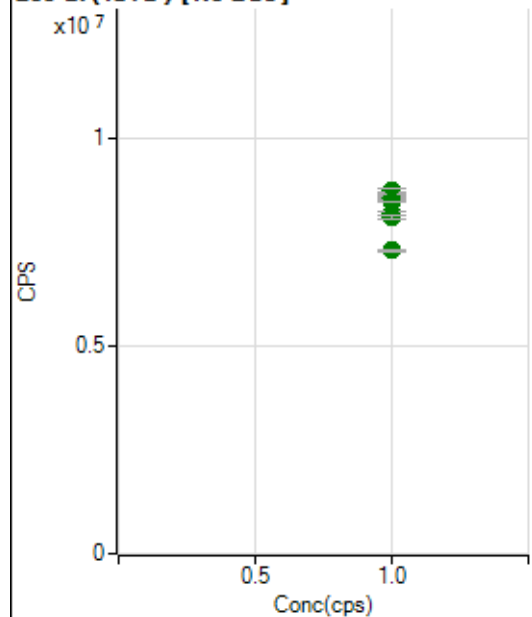


**165 Ho (ISTD) [No Gas]**

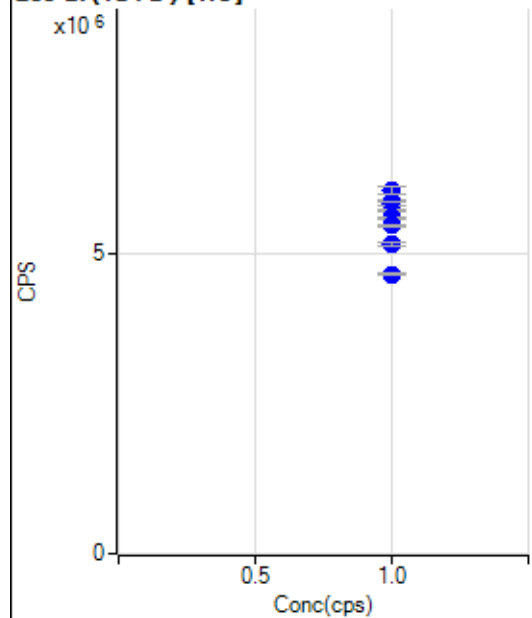
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 12199500.24 |       | A        | 1.2 |
| 2 | <input type="checkbox"/> | 1.000 |            | 12216396.21 |       | A        | 1.9 |
| 3 | <input type="checkbox"/> | 1.000 |            | 12310345.23 |       | A        | 0.8 |
| 4 | <input type="checkbox"/> | 1.000 |            | 12140951.07 |       | A        | 1.9 |
| 5 | <input type="checkbox"/> | 1.000 |            | 12113443.57 |       | A        | 1.0 |
| 6 | <input type="checkbox"/> | 1.000 |            | 11675757.19 |       | A        | 1.3 |
| 7 | <input type="checkbox"/> | 1.000 |            | 11627209.69 |       | A        | 1.3 |
| 8 | <input type="checkbox"/> | 1.000 |            | 11302808.44 |       | A        | 0.2 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 7739837.66 |       | A        | 1.0 |
| 2 | <input type="checkbox"/> | 1.000 |            | 7705484.82 |       | A        | 0.7 |
| 3 | <input type="checkbox"/> | 1.000 |            | 8021156.62 |       | A        | 2.2 |
| 4 | <input type="checkbox"/> | 1.000 |            | 7650142.32 |       | A        | 0.7 |
| 5 | <input type="checkbox"/> | 1.000 |            | 7543719.54 |       | A        | 0.5 |
| 6 | <input type="checkbox"/> | 1.000 |            | 7438640.65 |       | A        | 1.0 |
| 7 | <input type="checkbox"/> | 1.000 |            | 7118855.73 |       | A        | 2.6 |
| 8 | <input type="checkbox"/> | 1.000 |            | 6999205.11 |       | A        | 0.5 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 8650280.15 |       | A        | 1.0 |
| 2 | <input type="checkbox"/> | 1.000 |            | 8629519.52 |       | A        | 1.8 |
| 3 | <input type="checkbox"/> | 1.000 |            | 8727170.50 |       | A        | 1.1 |
| 4 | <input type="checkbox"/> | 1.000 |            | 8573760.36 |       | A        | 1.4 |
| 5 | <input type="checkbox"/> | 1.000 |            | 8464193.35 |       | A        | 0.4 |
| 6 | <input type="checkbox"/> | 1.000 |            | 8194490.78 |       | A        | 1.2 |
| 7 | <input type="checkbox"/> | 1.000 |            | 8092582.31 |       | A        | 0.6 |
| 8 | <input type="checkbox"/> | 1.000 |            | 7286811.90 |       | A        | 0.9 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 5891403.73 |       | P        | 0.3 |
| 2 | <input type="checkbox"/> | 1.000 |            | 5844768.25 |       | P        | 0.8 |
| 3 | <input type="checkbox"/> | 1.000 |            | 6061080.88 |       | P        | 2.0 |
| 4 | <input type="checkbox"/> | 1.000 |            | 5732431.58 |       | P        | 0.4 |
| 5 | <input type="checkbox"/> | 1.000 |            | 5610355.68 |       | P        | 0.2 |
| 6 | <input type="checkbox"/> | 1.000 |            | 5478490.06 |       | P        | 0.5 |
| 7 | <input type="checkbox"/> | 1.000 |            | 5179190.44 |       | P        | 1.5 |
| 8 | <input type="checkbox"/> | 1.000 |            | 4671583.37 |       | P        | 0.5 |

US EPA Tune Check Sample Report

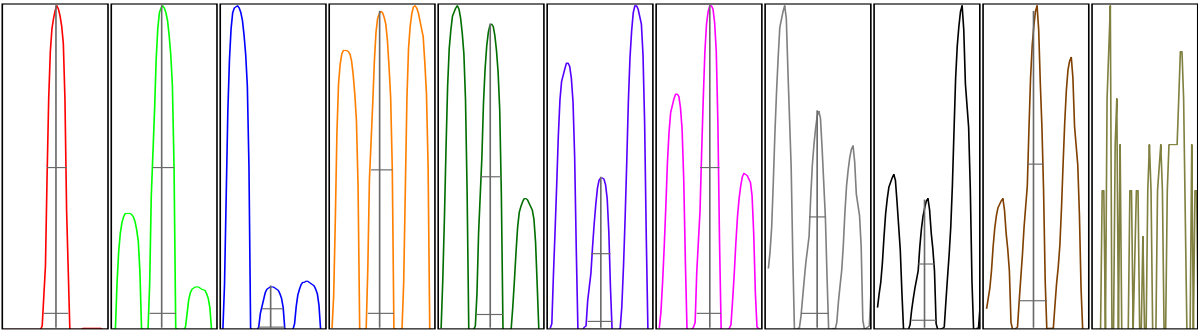
Batch Folder C:\Agilent\ICPMH\1\DATA\P7080421EPA.b  
Report Comment  
Instrument Name G8403A JP14410463

[No Gas]

| Mass | Count<br>(Mean) | RSD%<br>(Actual) | RSD%<br>(Required) | RSD%<br>(Flag) |
|------|-----------------|------------------|--------------------|----------------|
| 9    | 8150            | 0.59             | 5.00               |                |
| 24   | 100852          | 0.11             | 5.00               |                |
| 25   | 13242           | 0.20             | 5.00               |                |
| 26   | 15162           | 0.38             | 5.00               |                |
| 59   | 19048           | 0.33             | 5.00               |                |
| 113  | 11578           | 0.27             | 5.00               |                |
| 115  | 33922           | 1.38             | 5.00               |                |
| 206  | 17621           | 0.82             | 5.00               |                |
| 207  | 14867           | 0.66             | 5.00               |                |
| 208  | 36179           | 0.64             | 5.00               |                |
| 220  | 0               | 67.42            |                    |                |

| Mass | Replicate 1<br>Count | Replicate 2<br>Count | Replicate 3<br>Count | Replicate 4<br>Count | Replicate 5<br>Count |
|------|----------------------|----------------------|----------------------|----------------------|----------------------|
| 9    | 8066                 | 8158                 | 8167                 | 8192                 | 8167                 |
| 24   | 100693               | 100834               | 100932               | 100977               | 100823               |
| 25   | 13274                | 13239                | 13201                | 13256                | 13238                |
| 26   | 15190                | 15231                | 15170                | 15139                | 15079                |
| 59   | 19002                | 19131                | 18979                | 19089                | 19041                |
| 113  | 11583                | 11578                | 11530                | 11618                | 11581                |
| 115  | 34606                | 34115                | 33838                | 33675                | 33374                |
| 206  | 17414                | 17530                | 17686                | 17759                | 17716                |
| 207  | 14720                | 14884                | 14943                | 14962                | 14828                |
| 208  | 35990                | 36278                | 36287                | 36449                | 35891                |
| 220  | 0                    | 0                    | 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    | 14690          | 9.05             | 8.9 - 9.1          |                | 0.733                | 0.900                  |                        |
| 24   | 167185         | 23.95            | 23.9 - 24.1        |                | 0.778                | 0.900                  |                        |
| 25   | 21787          | 24.95            | 24.9 - 25.1        |                | 0.754                | 0.900                  |                        |
| 26   | 24823          | 25.95            | 25.9 - 26.1        |                | 0.783                | 0.900                  |                        |
| 59   | 33137          | 59.00            | 58.9 - 59.1        |                | 0.776                | 0.900                  |                        |
| 113  | 22279          | 113.05           | 112.9 - 113.1      |                | 0.733                | 0.900                  |                        |
| 115  | 65317          | 115.05           | 114.9 - 115.1      |                | 0.731                | 0.900                  |                        |
| 206  | 37068          | 206.00           | 205.9 - 206.1      |                | 0.777                | 0.900                  |                        |
| 207  | 30694          | 206.95           | 206.9 - 207.1      |                | 0.734                | 0.900                  |                        |
| 208  | 76042          | 207.95           | 207.9 - 208.1      |                | 0.768                | 0.900                  |                        |
| 220  | 0              | 219.65           | -                  |                | 0.300                |                        |                        |

X% = 5 Integration Time [sec] = 0.1 Acquisition Time [sec] = 256.8 Y Axis = Linear

Tune Parameters

## Plasma Paramters ##

| ParameterName | Value | Unit | ParameterName  | Value | Unit  | ParameterName       | Value | Unit         |
|---------------|-------|------|----------------|-------|-------|---------------------|-------|--------------|
| RF Power      | 1600  | W    | Carrier Gas    | 0.72  | 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 |       | 0.42 L/min   |

## Lenses Parameters ##

| ParameterName | Value  | Unit | ParameterName | Value | Unit | ParameterName | Value | Unit |
|---------------|--------|------|---------------|-------|------|---------------|-------|------|
| Extract 1     | 0.0    | V    | Omega Lens    | 9.4   | V    | Deflect       | 13.6  | V    |
| Extract 2     | -120.0 | V    | Cell Entrance | -30   | V    | Plate Bias    | -35   | V    |
| Omega Bias    | -65    | 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       | 170   | V    |                       |       |       |

[He]

| Mass | Count<br>(Mean) | RSD%<br>(Actual) | RSD%<br>(Required) |
|------|-----------------|------------------|--------------------|
| 59   | 6388            | 0.58             |                    |
| 89   | 28896           | 0.53             |                    |
| 205  | 17812           | 0.86             |                    |

| Mass | Replicate 1<br>Count | Replicate 2<br>Count | Replicate 3<br>Count | Replicate 4<br>Count | Replicate 5<br>Count |
|------|----------------------|----------------------|----------------------|----------------------|----------------------|
| 59   | 6430                 | 6412                 | 6366                 | 6336                 | 6394                 |
| 89   | 28879                | 29074                | 28939                | 28653                | 28936                |
| 205  | 18064                | 17705                | 17694                | 17850                | 17748                |

Integration Time [sec] = 0.1

Tune Parameters

## Plasma Paramters ##

| ParameterName | Value | Unit | ParameterName  | Value | Unit  | ParameterName       | Value | Unit         |
|---------------|-------|------|----------------|-------|-------|---------------------|-------|--------------|
| RF Power      | 1600  | W    | Carrier Gas    | 0.72  | 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 |       | 0.42 L/min   |

## Lenses Parameters ##

| ParameterName | Value  | Unit | ParameterName | Value | Unit | ParameterName | Value | Unit |
|---------------|--------|------|---------------|-------|------|---------------|-------|------|
| Extract 1     | 0.0    | V    | Omega Lens    | 10.2  | V    | Deflect       | 1.4   | V    |
| Extract 2     | -150.0 | V    | Cell Entrance | -40   | V    | Plate Bias    | -60   | V    |
| Omega Bias    | -95    | V    | Cell Exit     | -60   | V    |               |       |      |

## Cell Parameters ##

| ParameterName | Value | Unit   | ParameterName | Value | Unit | ParameterName         | Value | Unit  |
|---------------|-------|--------|---------------|-------|------|-----------------------|-------|-------|
| Use Gas       | Yes   |        | OctP Bias     | -18.0 | V    | Energy Discrimination |       | 5.0 V |
| He Flow       | 3.9   | mL/min | OctP RF       | 200   | V    |                       |       |       |