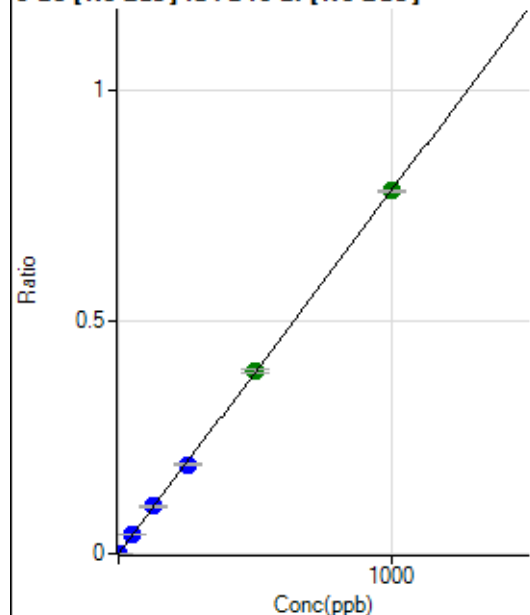


Calibration for 005CALS.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P7050422 MS.b\  
 Analysis File: P7050422 MS.batch.bin  
 DA Date-Time: 2022-05-04 18:26:00  
 Calibration Title:  
 Calibration Method: External Calibration  
 VIS Interpolation Fit:

| Level | Standard Data File | Sample Name | Acq. Date-Time      |
|-------|--------------------|-------------|---------------------|
| 1     | 003CALB.d          | S00         | 2022-05-04 15:23:47 |
| 2     | 004CALS.d          | S02         | 2022-05-04 15:26:41 |
| 3     | 005CALS.d          | S03         | 2022-05-04 15:29:33 |
| 4     | 006CALS.d          | S04         | 2022-05-04 15:32:19 |
| 5     | 007CALS.d          | S05         | 2022-05-04 15:35:04 |
| 6     | 008CALS.d          | S06         | 2022-05-04 15:37:51 |
| 7     | 009CALS.d          | S07         | 2022-05-04 15:40:35 |
| 8     | 010CALS.d          | S08         | 2022-05-04 15:43:23 |

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 40.00      | 0.0000 | P   | 8.3 |
| 2 | <input type="checkbox"/> | 1.000    | 1.102      | 2960.31    | 0.0009 | P   | 3.0 |
| 3 | <input type="checkbox"/> | 50.000   | 51.511     | 138583.39  | 0.0403 | P   | 1.5 |
| 4 | <input type="checkbox"/> | 125.000  | 129.905    | 346756.83  | 0.1016 | P   | 2.0 |
| 5 | <input type="checkbox"/> | 250.000  | 245.644    | 669734.19  | 0.1921 | P   | 1.2 |
| 6 | <input type="checkbox"/> | 500.000  | 502.328    | 1321994.14 | 0.3929 | A   | 1.7 |
| 7 | <input type="checkbox"/> | 1000.000 | 999.236    | 2554992.11 | 0.7815 | A   | 0.8 |
| 8 | <input type="checkbox"/> |          |            | 457.79     | 0.0002 | P   | 6.8 |

$$y = 7.8210E-004 * x + 1.1874E-005$$

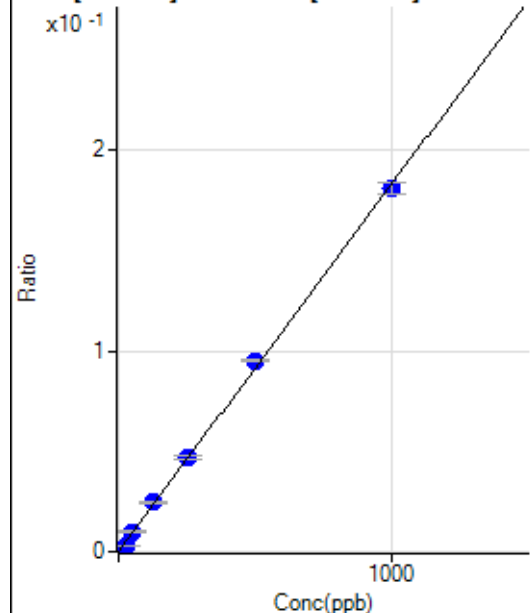
$$R = 1.0000$$

$$DL = 0.003797$$

$$BEC = 0.01518$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS       | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|-----------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 288.90    | 0.0001 | P   | 5.4 |
| 2 | <input type="checkbox"/> | 25.000   | 14.467     | 9261.31   | 0.0027 | P   | 1.2 |
| 3 | <input type="checkbox"/> | 50.000   | 53.946     | 34249.47  | 0.0100 | P   | 3.0 |
| 4 | <input type="checkbox"/> | 125.000  | 133.502    | 83639.85  | 0.0245 | P   | 4.7 |
| 5 | <input type="checkbox"/> | 250.000  | 256.885    | 164102.18 | 0.0471 | P   | 5.5 |
| 6 | <input type="checkbox"/> | 500.000  | 519.334    | 320125.57 | 0.0951 | P   | 1.5 |
| 7 | <input type="checkbox"/> | 1000.000 | 987.615    | 590993.69 | 0.1808 | P   | 3.2 |
| 8 | <input type="checkbox"/> |          |            | 18850.80  | 0.0065 | P   | 9.9 |

$$y = 1.8298E-004 * x + 8.5736E-005$$

$$R = 0.9995$$

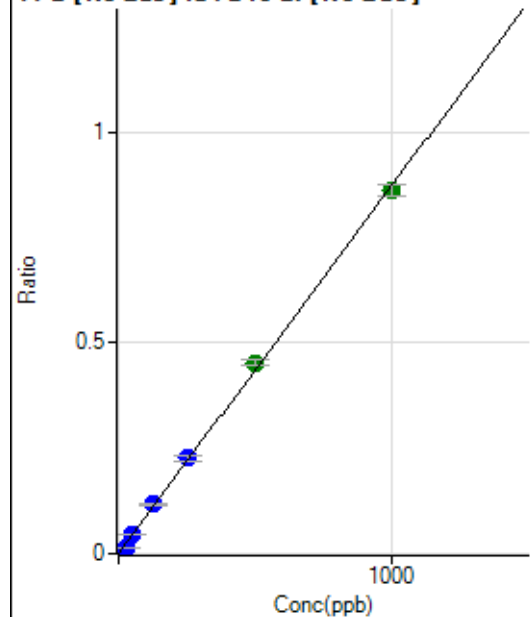
$$DL = 0.07591$$

$$BEC = 0.4686$$

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      | 1530.68    | 0.0005 | P   | 6.3  |
| 2 | <input type="checkbox"/> | 25.000   | 14.355     | 44002.04   | 0.0130 | P   | 3.6  |
| 3 | <input type="checkbox"/> | 50.000   | 52.529     | 159207.68  | 0.0463 | P   | 5.1  |
| 4 | <input type="checkbox"/> | 125.000  | 133.876    | 400065.85  | 0.1172 | P   | 3.6  |
| 5 | <input type="checkbox"/> | 250.000  | 259.068    | 789142.55  | 0.2264 | P   | 5.0  |
| 6 | <input type="checkbox"/> | 500.000  | 520.050    | 1528674.48 | 0.4541 | A   | 3.4  |
| 7 | <input type="checkbox"/> | 1000.000 | 986.738    | 2815176.97 | 0.8612 | A   | 3.1  |
| 8 | <input type="checkbox"/> |          |            | 91026.95   | 0.0313 | P   | 10.0 |

$$y = 8.7230E-004 * x + 4.5425E-004$$

$$R = 0.9995$$

$$DL = 0.09864$$

$$BEC = 0.5207$$

Weight: &lt;None&gt;

Min Conc: 0

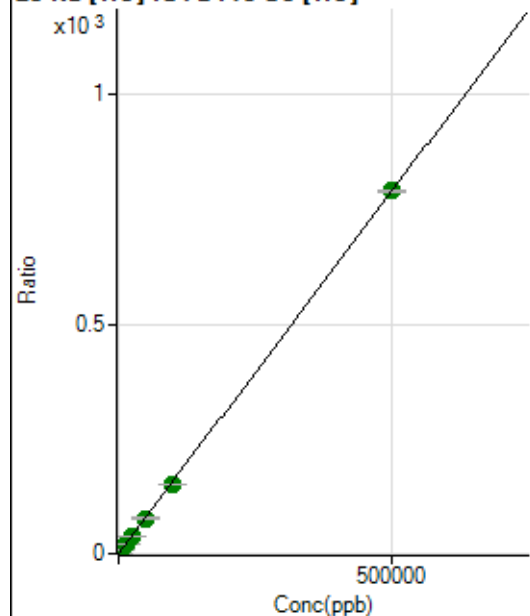
12 C [No Gas] No available calibration points



|   | 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      | 26912.56     | 0.0416   | P   | 1.1 |
| 2 | <input type="checkbox"/> | 500.000   | 473.914    | 515447.46    | 0.7890   | P   | 1.3 |
| 3 | <input type="checkbox"/> | 5000.000  | 4986.462   | 5063339.12   | 7.9057   | A   | 0.2 |
| 4 | <input type="checkbox"/> | 12500.000 | 12671.881  | 12419662.89  | 20.0265  | A   | 0.1 |
| 5 | <input type="checkbox"/> | 25000.000 | 24535.960  | 23814285.72  | 38.7374  | A   | 0.8 |
| 6 | <input type="checkbox"/> | 50000.000 | 49026.925  | 45455688.52  | 77.3622  | A   | 0.3 |
| 7 | <input type="checkbox"/> | 100000.00 | 96096.712  | 89192402.92  | 151.5963 | A   | 0.9 |
| 8 | <input type="checkbox"/> | 500000.00 | 500897.03  | 479526232.94 | 790.0093 | A   | 0.6 |

$$y = 0.0016 * x + 0.0416$$

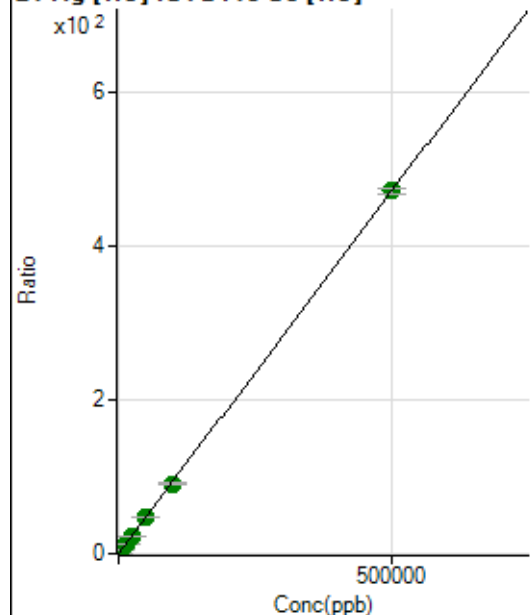
$$R = 1.0000$$

$$DL = 0.8402$$

$$BEC = 26.36$$

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      | 444.45       | 0.0007   | P   | 9.6 |
| 2 | <input type="checkbox"/> | 500.000   | 488.633    | 301331.30    | 0.4612   | P   | 0.9 |
| 3 | <input type="checkbox"/> | 5000.000  | 5084.208   | 3069403.11   | 4.7925   | A   | 0.8 |
| 4 | <input type="checkbox"/> | 12500.000 | 12903.755  | 7542703.01   | 12.1623  | A   | 0.9 |
| 5 | <input type="checkbox"/> | 25000.000 | 24923.737  | 14441192.45  | 23.4911  | A   | 0.4 |
| 6 | <input type="checkbox"/> | 50000.000 | 49502.026  | 27413532.32  | 46.6559  | A   | 0.2 |
| 7 | <input type="checkbox"/> | 100000.00 | 96819.832  | 53688291.01  | 91.2524  | A   | 1.0 |
| 8 | <input type="checkbox"/> | 500000.00 | 500678.72  | 286429450.85 | 471.8854 | A   | 1.4 |

$$y = 9.4249\text{E-}004 * x + 6.8672\text{E-}004$$

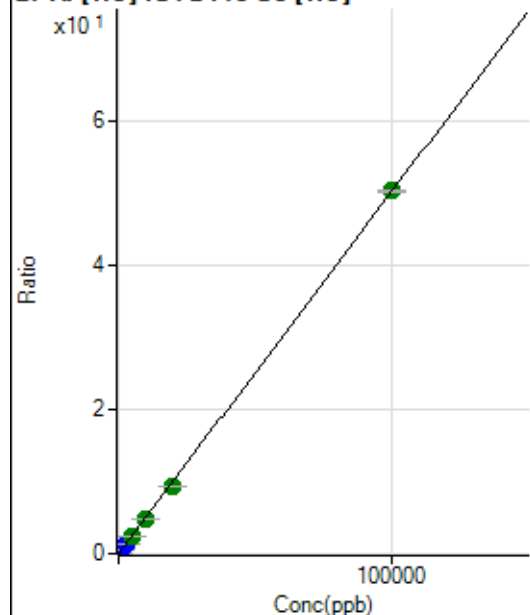
$$R = 1.0000$$

$$DL = 0.2102$$

$$BEC = 0.7286$$

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      | 224.08      | 0.0003  | P   | 18.3 |
| 2 | <input type="checkbox"/> | 20.000    | 19.648     | 6671.95     | 0.0102  | P   | 3.3  |
| 3 | <input type="checkbox"/> | 1000.000  | 1005.728   | 323668.53   | 0.5054  | P   | 0.2  |
| 4 | <input type="checkbox"/> | 2500.000  | 2432.273   | 757650.62   | 1.2217  | P   | 0.3  |
| 5 | <input type="checkbox"/> | 5000.000  | 4804.535   | 1483358.82  | 2.4129  | A   | 0.2  |
| 6 | <input type="checkbox"/> | 10000.000 | 9519.594   | 2808948.67  | 4.7805  | A   | 0.7  |
| 7 | <input type="checkbox"/> | 20000.000 | 18799.364  | 5554287.10  | 9.4403  | A   | 0.7  |
| 8 | <input type="checkbox"/> | 100000.00 | 100299.57  | 30570975.68 | 50.3651 | A   | 0.2  |

$$y = 5.0214\text{E-}004 * x + 3.4595\text{E-}004$$

$$R = 0.9999$$

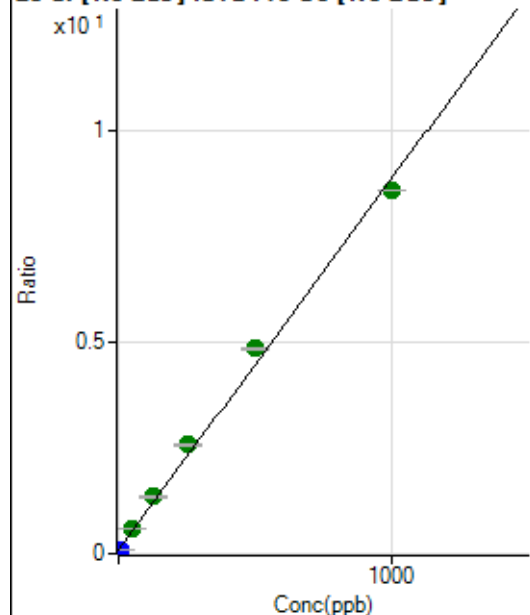
$$DL = 0.3773$$

$$BEC = 0.689$$

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      | 739093.72   | 0.0901 | P   | 0.8 |
| 2 | <input type="checkbox"/> | 10.000   | 1.348      | 839173.62   | 0.1019 | P   | 1.2 |
| 3 | <input type="checkbox"/> | 50.000   | 59.179     | 5019721.64  | 0.6088 | A   | 0.5 |
| 4 | <input type="checkbox"/> | 125.000  | 142.873    | 10871403.80 | 1.3425 | A   | 1.7 |
| 5 | <input type="checkbox"/> | 250.000  | 283.127    | 20600913.66 | 2.5721 | A   | 1.2 |
| 6 | <input type="checkbox"/> | 500.000  | 543.265    | 38216826.55 | 4.8525 | A   | 0.7 |
| 7 | <input type="checkbox"/> | 1000.000 | 967.479    | 66048247.31 | 8.5714 | A   | 0.1 |
| 8 | <input type="checkbox"/> |          |            | 1191042.19  | 0.1591 | A   | 1.7 |

$$y = 0.0088 * x + 0.0901$$

$$R = 0.9977$$

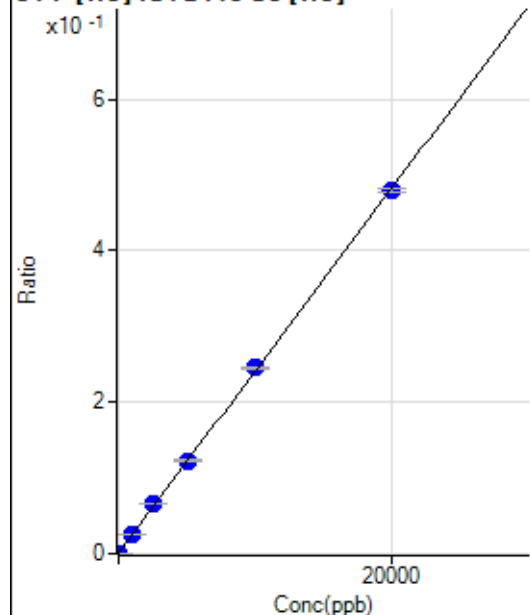
$$DL = 0.2338$$

$$BEC = 10.27$$

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     | -12.004    | 338.90    | 0.0005 | P   | 9.7 |
| 2 | <input type="checkbox"/> | 0.000     | 12.004     | 719.48    | 0.0011 | P   | 9.6 |
| 3 | <input type="checkbox"/> | 1000.000  | 1035.725   | 16484.20  | 0.0257 | P   | 3.3 |
| 4 | <input type="checkbox"/> | 2500.000  | 2706.765   | 40902.66  | 0.0660 | P   | 1.6 |
| 5 | <input type="checkbox"/> | 5000.000  | 5050.564   | 75215.42  | 0.1224 | P   | 2.0 |
| 6 | <input type="checkbox"/> | 10000.000 | 10173.340  | 144325.73 | 0.2456 | P   | 1.0 |
| 7 | <input type="checkbox"/> | 20000.000 | 19873.057  | 281860.40 | 0.4791 | P   | 1.2 |
| 8 | <input type="checkbox"/> |           |            | 455.57    | 0.0008 | P   | 9.3 |

$$y = 2.4065E-005 * x + 8.1211E-004$$

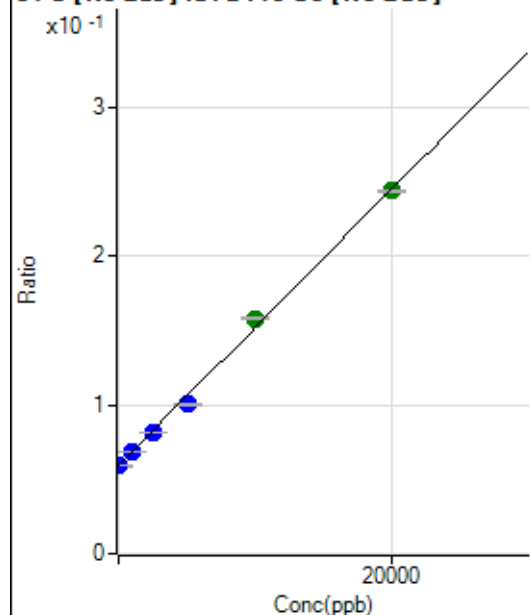
$$R = 0.9999$$

$$DL = 9.755$$

$$BEC = 33.75$$

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     | -30.413    | 486057.15  | 0.0592 | P   | 1.4 |
| 2 | <input type="checkbox"/> | 0.000     | 30.413     | 492532.95  | 0.0598 | P   | 1.0 |
| 3 | <input type="checkbox"/> | 1000.000  | 987.977    | 566236.17  | 0.0687 | P   | 0.9 |
| 4 | <input type="checkbox"/> | 2500.000  | 2333.881   | 657390.36  | 0.0812 | P   | 0.8 |
| 5 | <input type="checkbox"/> | 5000.000  | 4390.529   | 803142.08  | 0.1003 | P   | 0.8 |
| 6 | <input type="checkbox"/> | 10000.000 | 10626.303  | 1245733.09 | 0.1582 | A   | 1.2 |
| 7 | <input type="checkbox"/> | 20000.000 | 19860.582  | 1879521.64 | 0.2439 | A   | 0.4 |
| 8 | <input type="checkbox"/> |           |            | 369338.87  | 0.0493 | P   | 0.8 |

$$y = 9.2850E-006 * x + 0.0595$$

R = 0.9988

DL = 225.9

BEC = 6409

Weight: &lt;None&gt;

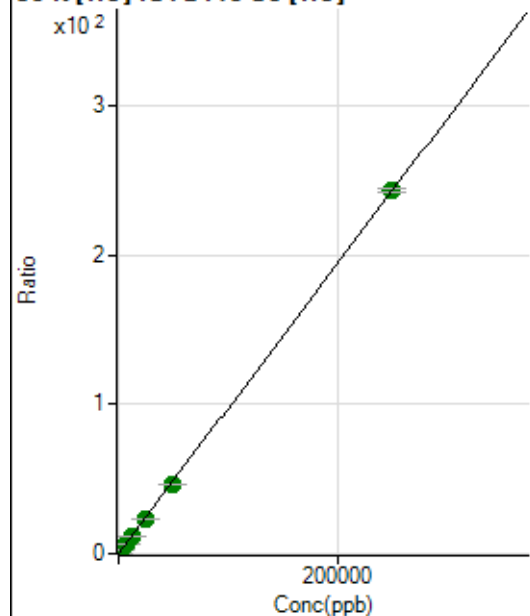
Min Conc: 0

**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      | 66417.51     | 0.1026   | P   | 1.8 |
| 2 | <input type="checkbox"/> | 500.000   | 494.582    | 379877.69    | 0.5815   | P   | 1.0 |
| 3 | <input type="checkbox"/> | 2500.000  | 2455.301   | 1588322.55   | 2.4799   | A   | 1.2 |
| 4 | <input type="checkbox"/> | 6250.000  | 6199.883   | 3786576.99   | 6.1056   | A   | 0.8 |
| 5 | <input type="checkbox"/> | 12500.000 | 12054.223  | 7238129.85   | 11.7741  | A   | 0.5 |
| 6 | <input type="checkbox"/> | 25000.000 | 23836.728  | 13621591.80  | 23.1826  | A   | 0.7 |
| 7 | <input type="checkbox"/> | 50000.000 | 47687.014  | 27226248.18  | 46.2757  | A   | 1.2 |
| 8 | <input type="checkbox"/> | 250000.00 | 250602.92  | 147345601.91 | 242.7497 | A   | 1.1 |

$$y = 9.6825E-004 * x + 0.1026$$

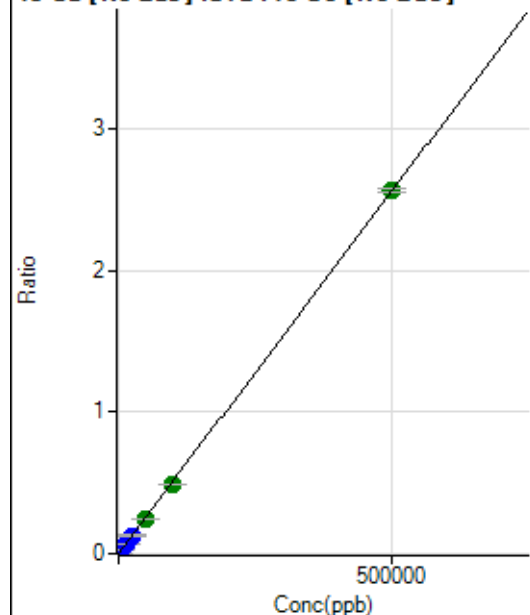
$$R = 0.9999$$

$$DL = 5.582$$

$$BEC = 105.9$$

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      | 286.12      | 0.0000 | P   | 10.8 |
| 2 | <input type="checkbox"/> | 500.000   | 493.252    | 21078.96    | 0.0026 | P   | 2.5  |
| 3 | <input type="checkbox"/> | 5000.000  | 5116.638   | 216177.37   | 0.0262 | P   | 0.9  |
| 4 | <input type="checkbox"/> | 12500.000 | 12840.839  | 532431.44   | 0.0658 | P   | 1.6  |
| 5 | <input type="checkbox"/> | 25000.000 | 25073.130  | 1028038.85  | 0.1284 | P   | 1.5  |
| 6 | <input type="checkbox"/> | 50000.000 | 47680.682  | 1922074.52  | 0.2441 | A   | 0.3  |
| 7 | <input type="checkbox"/> | 100000.00 | 96303.627  | 3798017.45  | 0.4929 | A   | 0.6  |
| 8 | <input type="checkbox"/> | 500000.00 | 500957.86  | 19195983.42 | 2.5638 | A   | 1.0  |

$$y = 5.1178\text{E-}006 * x + 3.4826\text{E-}005$$

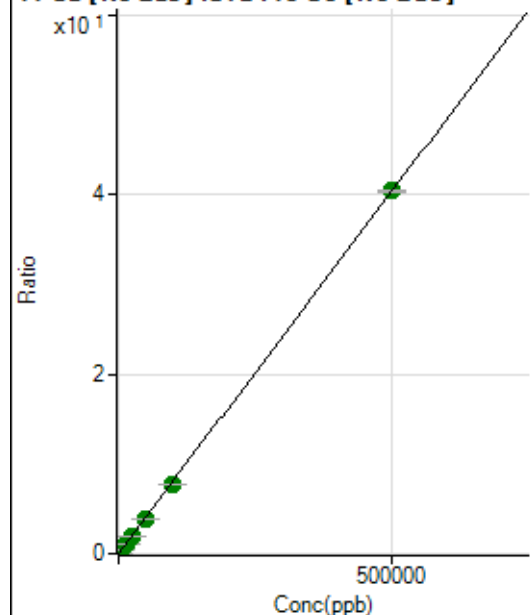
$$R = 1.0000$$

$$DL = 2.206$$

$$BEC = 6.805$$

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      | 22097.28     | 0.0027  | P   | 1.6 |
| 2 | <input type="checkbox"/> | 500.000   | 495.546    | 351146.10    | 0.0426  | P   | 1.5 |
| 3 | <input type="checkbox"/> | 5000.000  | 4887.793   | 3269817.52   | 0.3966  | A   | 0.3 |
| 4 | <input type="checkbox"/> | 12500.000 | 12198.366  | 7982598.96   | 0.9858  | A   | 1.2 |
| 5 | <input type="checkbox"/> | 25000.000 | 23940.737  | 15475115.97  | 1.9321  | A   | 1.4 |
| 6 | <input type="checkbox"/> | 50000.000 | 47887.486  | 30414653.81  | 3.8619  | A   | 0.4 |
| 7 | <input type="checkbox"/> | 100000.00 | 96070.810  | 59681799.94  | 7.7450  | A   | 0.7 |
| 8 | <input type="checkbox"/> | 500000.00 | 501058.72  | 302355195.64 | 40.3830 | A   | 0.8 |

$$y = 8.0590\text{E-}005 * x + 0.0027$$

$$R = 1.0000$$

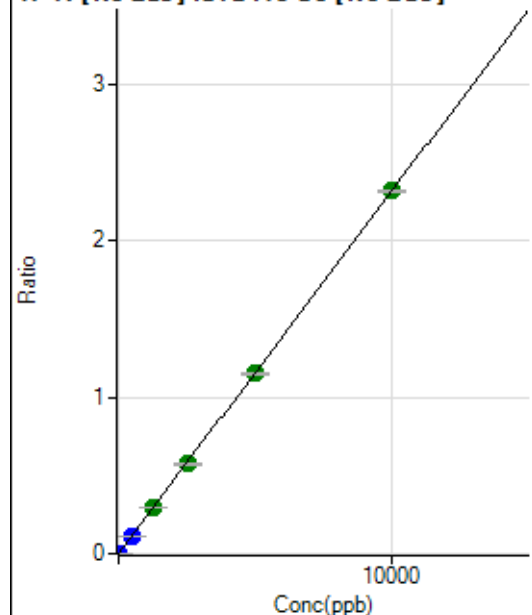
$$DL = 1.584$$

$$BEC = 33.41$$

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      | 158.34      | 0.0000 | P   | 30.3 |
| 2 | <input type="checkbox"/> | 5.000     | 4.963      | 9608.84     | 0.0012 | P   | 1.2  |
| 3 | <input type="checkbox"/> | 500.000   | 495.899    | 945202.45   | 0.1146 | P   | 0.7  |
| 4 | <input type="checkbox"/> | 1250.000  | 1277.625   | 2391429.28  | 0.2953 | A   | 1.8  |
| 5 | <input type="checkbox"/> | 2500.000  | 2470.333   | 4573674.84  | 0.5710 | A   | 0.9  |
| 6 | <input type="checkbox"/> | 5000.000  | 4976.425   | 9059234.40  | 1.1503 | A   | 0.8  |
| 7 | <input type="checkbox"/> | 10000.000 | 10015.956  | 17838820.54 | 2.3151 | A   | 0.8  |
| 8 | <input type="checkbox"/> |           |            | 3447.71     | 0.0005 | P   | 4.7  |

$$y = 2.3114\text{E-}004 * x + 1.9237\text{E-}005$$

$$R = 1.0000$$

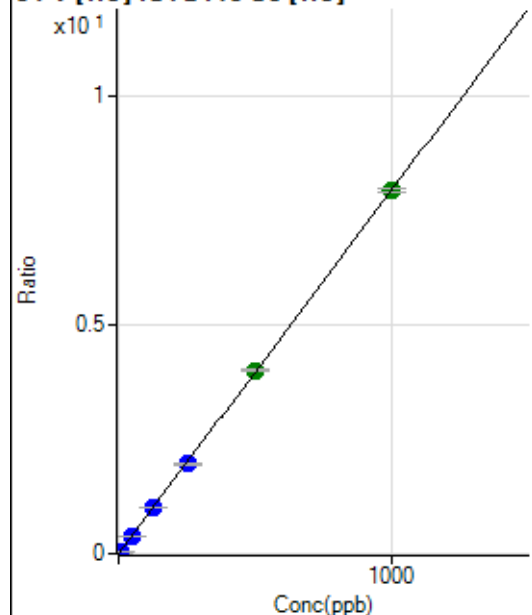
$$DL = 0.07566$$

$$BEC = 0.08323$$

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      | 57.78      | 0.0001 | P   | 35.1 |
| 2 | <input type="checkbox"/> | 5.000    | 4.868      | 25322.41   | 0.0388 | P   | 2.0  |
| 3 | <input type="checkbox"/> | 50.000   | 49.775     | 253305.70  | 0.3955 | P   | 1.2  |
| 4 | <input type="checkbox"/> | 125.000  | 126.995    | 625712.24  | 1.0090 | P   | 0.2  |
| 5 | <input type="checkbox"/> | 250.000  | 246.128    | 1202063.90 | 1.9554 | P   | 0.5  |
| 6 | <input type="checkbox"/> | 500.000  | 504.546    | 2355147.78 | 4.0083 | A   | 1.0  |
| 7 | <input type="checkbox"/> | 1000.000 | 998.458    | 4667091.73 | 7.9320 | A   | 1.2  |
| 8 | <input type="checkbox"/> |          |            | 1205.62    | 0.0020 | P   | 3.6  |

$$y = 0.0079 * x + 8.9224\text{E-}005$$

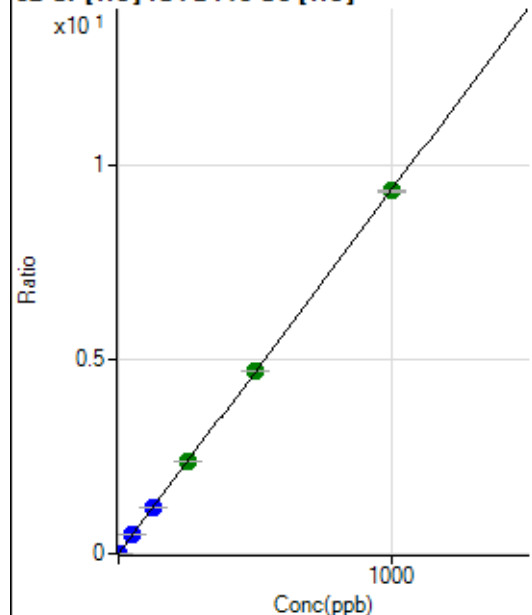
$$R = 1.0000$$

$$DL = 0.01182$$

$$BEC = 0.01123$$

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      | 2499.12    | 0.0039 | P   | 2.9 |
| 2 | <input type="checkbox"/> | 2.000    | 1.923      | 14267.95   | 0.0218 | P   | 0.6 |
| 3 | <input type="checkbox"/> | 50.000   | 50.184     | 303029.28  | 0.4731 | P   | 0.1 |
| 4 | <input type="checkbox"/> | 125.000  | 127.344    | 740896.73  | 1.1947 | P   | 0.2 |
| 5 | <input type="checkbox"/> | 250.000  | 252.543    | 1454177.72 | 2.3655 | A   | 0.4 |
| 6 | <input type="checkbox"/> | 500.000  | 502.749    | 2764650.90 | 4.7052 | A   | 0.2 |
| 7 | <input type="checkbox"/> | 1000.000 | 997.688    | 5491552.63 | 9.3335 | A   | 0.4 |
| 8 | <input type="checkbox"/> |          |            | 53444.39   | 0.0880 | P   | 0.7 |

$$y = 0.0094 * x + 0.0039$$

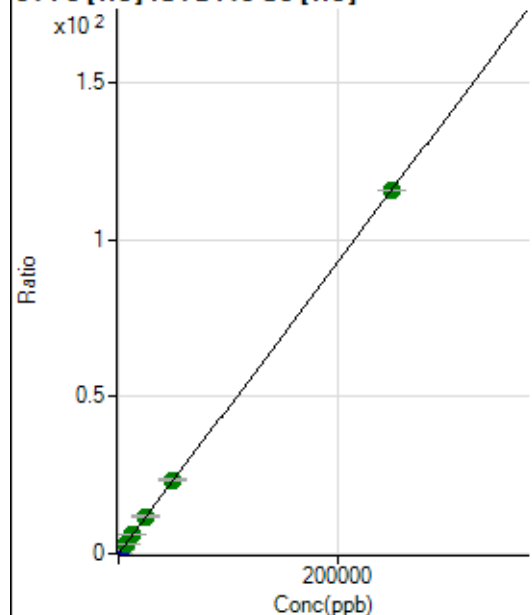
$$R = 1.0000$$

$$DL = 0.03572$$

$$BEC = 0.4128$$

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      | 1751.91     | 0.0027   | P   | 3.3 |
| 2 | <input type="checkbox"/> | 50.000    | 51.039     | 17200.81    | 0.0263   | P   | 0.7 |
| 3 | <input type="checkbox"/> | 2500.000  | 2613.221   | 776371.41   | 1.2122   | P   | 0.8 |
| 4 | <input type="checkbox"/> | 6250.000  | 6677.174   | 1918287.40  | 3.0931   | A   | 0.7 |
| 5 | <input type="checkbox"/> | 12500.000 | 12845.871  | 3656703.52  | 5.9482   | A   | 1.3 |
| 6 | <input type="checkbox"/> | 25000.000 | 25688.248  | 6987695.68  | 11.8921  | A   | 1.0 |
| 7 | <input type="checkbox"/> | 50000.000 | 50901.372  | 13862819.10 | 23.5616  | A   | 0.6 |
| 8 | <input type="checkbox"/> | 250000.00 | 249721.79  | 70157230.59 | 115.5826 | A   | 0.0 |

$$y = 4.6283E-004 * x + 0.0027$$

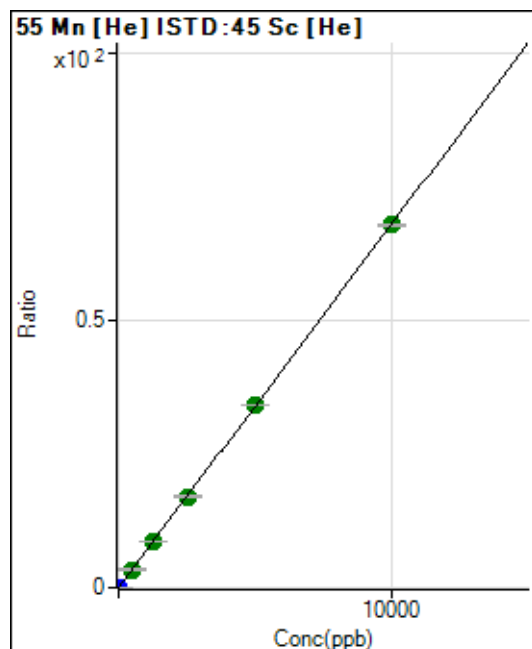
$$R = 1.0000$$

$$DL = 0.5838$$

$$BEC = 5.846$$

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      | 255.56      | 0.0004  | P   | 4.9 |
| 2 | <input type="checkbox"/> | 1.000     | 0.967      | 4556.28     | 0.0070  | P   | 0.5 |
| 3 | <input type="checkbox"/> | 500.000   | 501.210    | 2185032.52  | 3.4116  | A   | 0.6 |
| 4 | <input type="checkbox"/> | 1250.000  | 1277.263   | 5391397.35  | 8.6934  | A   | 0.7 |
| 5 | <input type="checkbox"/> | 2500.000  | 2510.853   | 10505921.65 | 17.0892 | A   | 0.9 |
| 6 | <input type="checkbox"/> | 5000.000  | 5023.517   | 20089650.95 | 34.1904 | A   | 0.4 |
| 7 | <input type="checkbox"/> | 10000.000 | 9982.060   | 39971799.41 | 67.9382 | A   | 0.8 |
| 8 | <input type="checkbox"/> |           |            | 26608.02    | 0.0438  | P   | 1.0 |

$$y = 0.0068 * x + 3.9464E-004$$

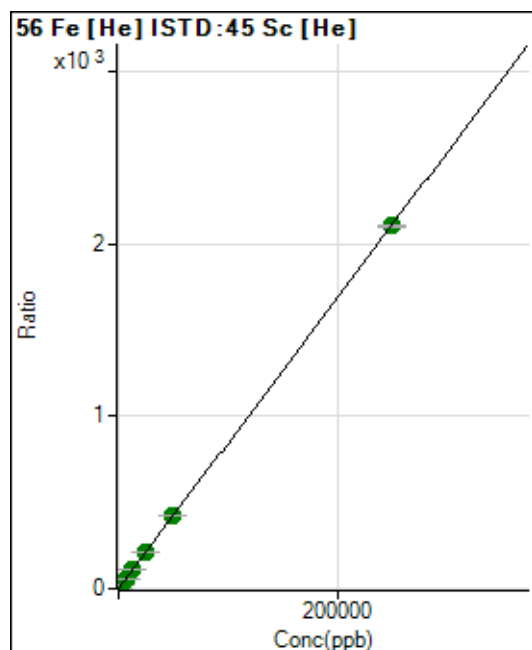
$$R = 1.0000$$

$$DL = 0.008461$$

$$BEC = 0.05798$$

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      | 16880.03     | 0.0261    | P   | 1.8 |
| 2 | <input type="checkbox"/> | 50.000    | 49.884     | 291662.17    | 0.4464    | P   | 0.1 |
| 3 | <input type="checkbox"/> | 2500.000  | 2573.514   | 13905759.57  | 21.7120   | A   | 0.3 |
| 4 | <input type="checkbox"/> | 6250.000  | 6499.477   | 33981177.61  | 54.7944   | A   | 0.7 |
| 5 | <input type="checkbox"/> | 12500.000 | 12771.266  | 66176139.90  | 107.6441  | A   | 0.9 |
| 6 | <input type="checkbox"/> | 25000.000 | 25365.818  | 125607787.06 | 213.7730  | A   | 0.7 |
| 7 | <input type="checkbox"/> | 50000.000 | 50378.719  | 249783642.62 | 424.5460  | A   | 1.0 |
| 8 | <input type="checkbox"/> | 250000.00 | 249867.13  | 1278041806.3 | 2,105.549 | A   | 0.4 |

$$y = 0.0084 * x + 0.0261$$

$$R = 1.0000$$

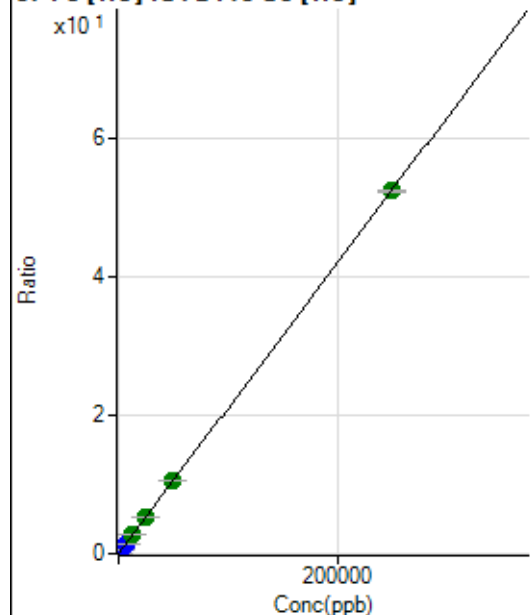
$$DL = 0.1661$$

$$BEC = 3.094$$

Weight: <None>

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio   | Det | RSD  |
|---|--------------------------|-----------|------------|-------------|---------|-----|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 516.69      | 0.0008  | P   | 12.5 |
| 2 | <input type="checkbox"/> | 50.000    | 51.968     | 7642.79     | 0.0117  | P   | 6.3  |
| 3 | <input type="checkbox"/> | 2500.000  | 2547.020   | 342640.12   | 0.5350  | P   | 0.8  |
| 4 | <input type="checkbox"/> | 6250.000  | 6467.991   | 841740.18   | 1.3573  | P   | 1.1  |
| 5 | <input type="checkbox"/> | 12500.000 | 12682.406  | 1635649.67  | 2.6607  | A   | 1.4  |
| 6 | <input type="checkbox"/> | 25000.000 | 25618.711  | 3157466.82  | 5.3738  | A   | 0.9  |
| 7 | <input type="checkbox"/> | 50000.000 | 50049.800  | 6176509.57  | 10.4977 | A   | 1.1  |
| 8 | <input type="checkbox"/> | 250000.00 | 249913.12  | 31815288.67 | 52.4151 | A   | 0.6  |

$$y = 2.0973E-004 * x + 7.9822E-004$$

R = 1.0000

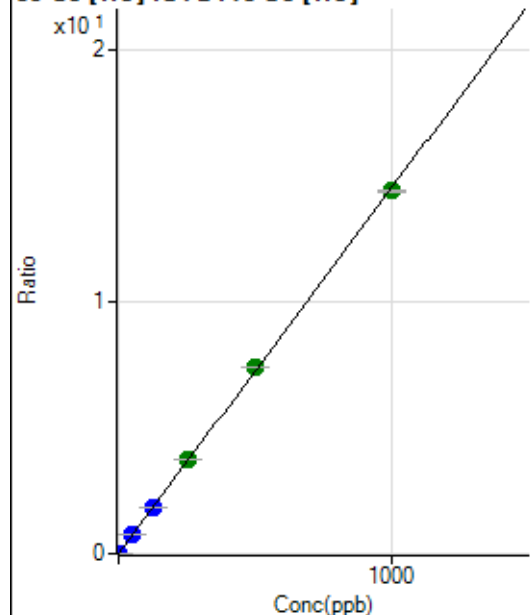
DL = 1.422

BEC = 3.806

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio   | Det | RSD |
|---|--------------------------|----------|------------|------------|---------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 144.45     | 0.0002  | P   | 7.0 |
| 2 | <input type="checkbox"/> | 1.000    | 0.990      | 9532.00    | 0.0146  | P   | 1.4 |
| 3 | <input type="checkbox"/> | 50.000   | 50.099     | 466007.66  | 0.7276  | P   | 0.6 |
| 4 | <input type="checkbox"/> | 125.000  | 127.055    | 1144115.05 | 1.8449  | P   | 1.2 |
| 5 | <input type="checkbox"/> | 250.000  | 257.312    | 2296840.68 | 3.7361  | A   | 1.1 |
| 6 | <input type="checkbox"/> | 500.000  | 511.346    | 4362342.88 | 7.4245  | A   | 0.4 |
| 7 | <input type="checkbox"/> | 1000.000 | 992.237    | 8476551.33 | 14.4065 | A   | 0.9 |
| 8 | <input type="checkbox"/> |          |            | 22865.27   | 0.0377  | P   | 1.6 |

$$y = 0.0145 * x + 2.2314E-004$$

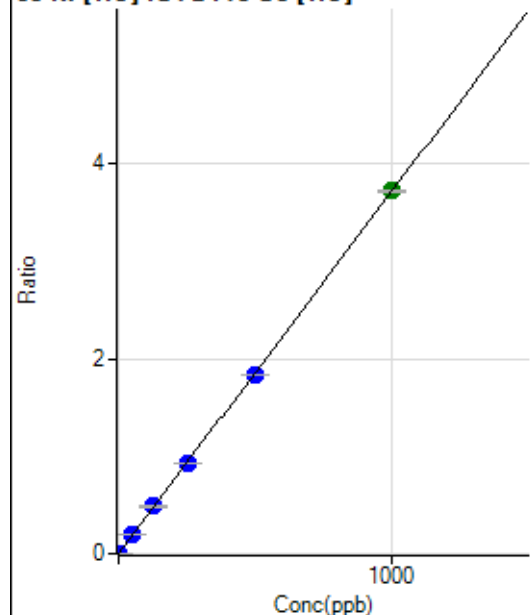
R = 0.9999

DL = 0.003225

BEC = 0.01537

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      | 271.12     | 0.0004 | P   | 20.7 |
| 2 | <input type="checkbox"/> | 1.000    | 1.001      | 2701.38    | 0.0041 | P   | 3.2  |
| 3 | <input type="checkbox"/> | 50.000   | 51.075     | 121641.71  | 0.1899 | P   | 0.2  |
| 4 | <input type="checkbox"/> | 125.000  | 130.285    | 300046.02  | 0.4838 | P   | 0.5  |
| 5 | <input type="checkbox"/> | 250.000  | 250.669    | 572026.48  | 0.9305 | P   | 0.4  |
| 6 | <input type="checkbox"/> | 500.000  | 493.289    | 1075658.88 | 1.8307 | P   | 0.5  |
| 7 | <input type="checkbox"/> | 1000.000 | 1002.474   | 2188797.14 | 3.7200 | A   | 0.6  |
| 8 | <input type="checkbox"/> |          |            | 20941.40   | 0.0345 | P   | 1.4  |

$$y = 0.0037 * x + 4.1858E-004$$

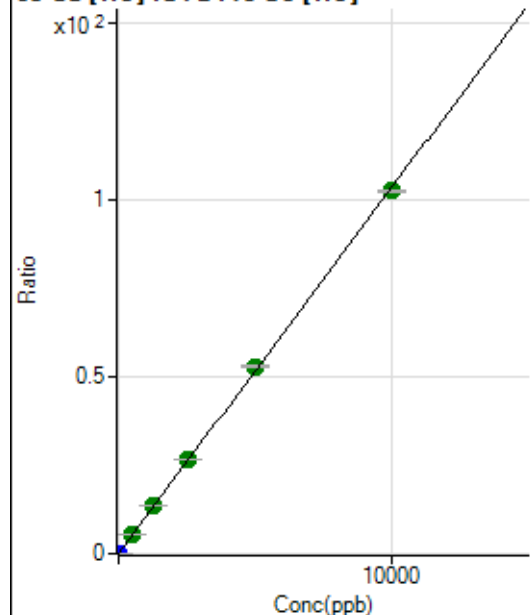
$$R = 1.0000$$

$$DL = 0.07005$$

$$BEC = 0.1128$$

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      | 952.26      | 0.0015   | P   | 1.2 |
| 2 | <input type="checkbox"/> | 2.000     | 2.029      | 14686.20    | 0.0225   | P   | 2.4 |
| 3 | <input type="checkbox"/> | 500.000   | 527.782    | 3500214.36  | 5.4651   | A   | 0.4 |
| 4 | <input type="checkbox"/> | 1250.000  | 1329.957   | 8539159.59  | 13.7694  | A   | 0.3 |
| 5 | <input type="checkbox"/> | 2500.000  | 2568.356   | 16345854.76 | 26.5894  | A   | 0.6 |
| 6 | <input type="checkbox"/> | 5000.000  | 5110.206   | 31083922.59 | 52.9030  | A   | 1.0 |
| 7 | <input type="checkbox"/> | 10000.000 | 9916.424   | 60400282.43 | 102.6577 | A   | 0.5 |
| 8 | <input type="checkbox"/> |           |            | 26509.06    | 0.0437   | P   | 0.3 |

$$y = 0.0104 * x + 0.0015$$

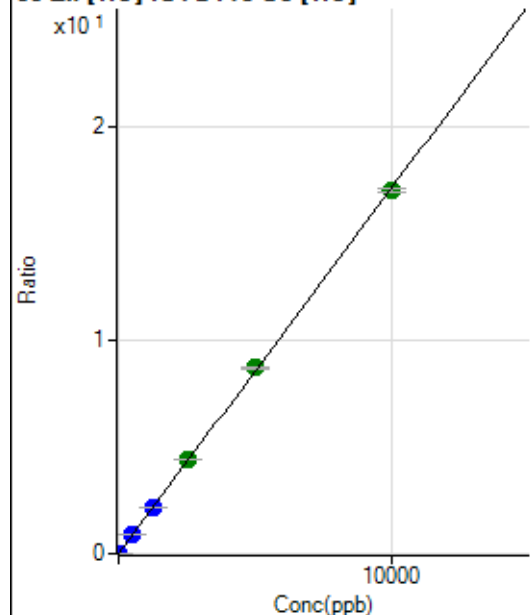
$$R = 0.9999$$

$$DL = 0.004911$$

$$BEC = 0.1421$$

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      | 330.01      | 0.0005  | P   | 15.3 |
| 2 | <input type="checkbox"/> | 2.000     | 2.219      | 2815.85     | 0.0043  | P   | 0.9  |
| 3 | <input type="checkbox"/> | 500.000   | 507.899    | 557291.01   | 0.8701  | P   | 0.5  |
| 4 | <input type="checkbox"/> | 1250.000  | 1284.906   | 1364687.50  | 2.2005  | P   | 0.3  |
| 5 | <input type="checkbox"/> | 2500.000  | 2579.152   | 2715089.35  | 4.4166  | A   | 0.4  |
| 6 | <input type="checkbox"/> | 5000.000  | 5095.344   | 5126304.47  | 8.7248  | A   | 0.9  |
| 7 | <input type="checkbox"/> | 10000.000 | 9927.782   | 10001356.03 | 16.9990 | A   | 1.0  |
| 8 | <input type="checkbox"/> |           |            | 16171.08    | 0.0266  | P   | 1.7  |

$$y = 0.0017 * x + 5.0987E-004$$

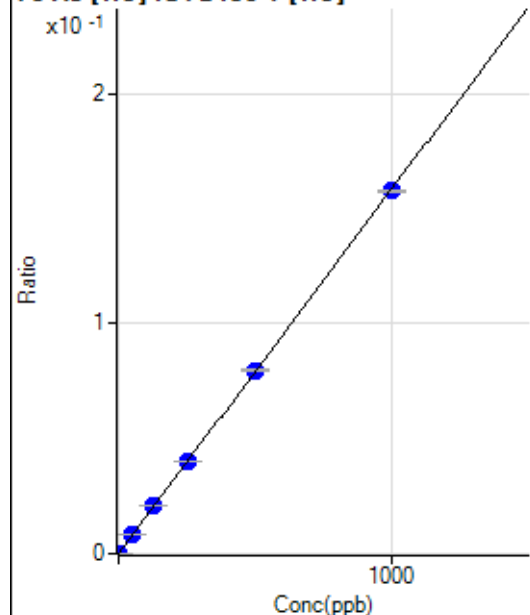
$$R = 0.9999$$

$$DL = 0.1363$$

$$BEC = 0.2978$$

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      | 17.90     | 0.0000 | P   | 41.7 |
| 2 | <input type="checkbox"/> | 1.000    | 1.049      | 718.54    | 0.0002 | P   | 5.7  |
| 3 | <input type="checkbox"/> | 50.000   | 52.588     | 33858.14  | 0.0083 | P   | 0.6  |
| 4 | <input type="checkbox"/> | 125.000  | 130.679    | 83708.67  | 0.0207 | P   | 1.0  |
| 5 | <input type="checkbox"/> | 250.000  | 255.271    | 160744.01 | 0.0404 | P   | 0.3  |
| 6 | <input type="checkbox"/> | 500.000  | 503.913    | 309668.78 | 0.0798 | P   | 0.8  |
| 7 | <input type="checkbox"/> | 1000.000 | 995.887    | 610566.32 | 0.1578 | P   | 0.6  |
| 8 | <input type="checkbox"/> |          |            | 311.11    | 0.0001 | P   | 4.3  |

$$y = 1.5841E-004 * x + 4.2811E-006$$

$$R = 1.0000$$

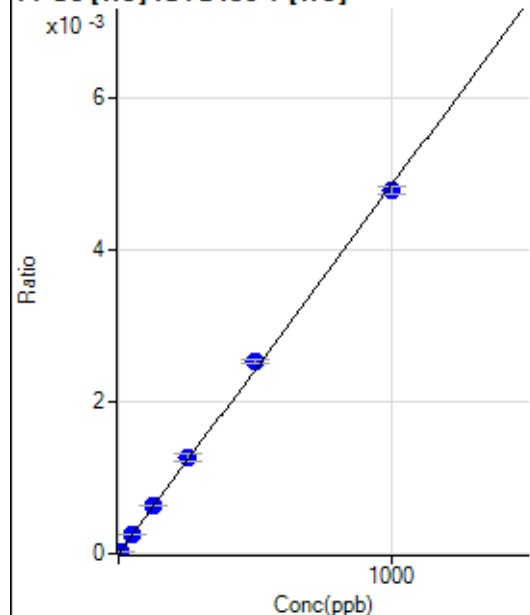
$$DL = 0.0338$$

$$BEC = 0.02703$$

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    | 4.787      | 97.78    | 0.0000 | P    | 7.9  |
| 3 | <input type="checkbox"/> | 50.000   | 52.454     | 1032.27  | 0.0003 | P    | 5.1  |
| 4 | <input type="checkbox"/> | 125.000  | 130.050    | 2546.91  | 0.0006 | P    | 2.6  |
| 5 | <input type="checkbox"/> | 250.000  | 261.270    | 5028.69  | 0.0013 | P    | 7.4  |
| 6 | <input type="checkbox"/> | 500.000  | 522.633    | 9818.88  | 0.0025 | P    | 2.0  |
| 7 | <input type="checkbox"/> | 1000.000 | 985.113    | 18464.92 | 0.0048 | P    | 2.0  |
| 8 | <input type="checkbox"/> |          |            | 7.78     | 0.0000 | P    | 89.3 |

$$y = 4.8434\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9995$$

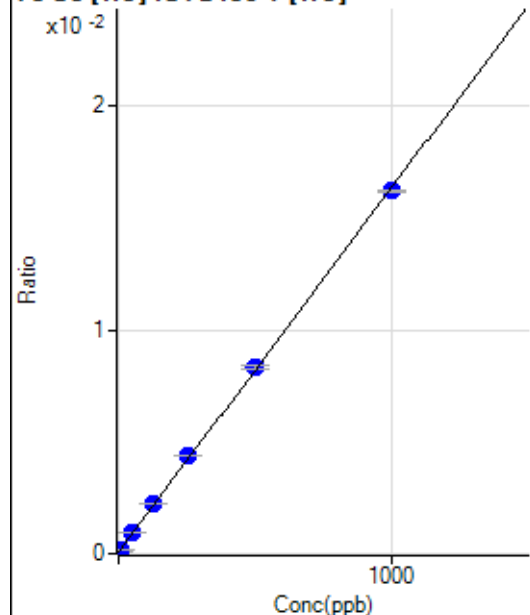
$$DL = 0$$

$$BEC = 0$$

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      | 283.34   | 0.0001 | P    | 11.2 |
| 2 | <input type="checkbox"/> | 5.000    | 5.038      | 631.50   | 0.0001 | P    | 2.6  |
| 3 | <input type="checkbox"/> | 50.000   | 54.099     | 3851.75  | 0.0009 | P    | 4.1  |
| 4 | <input type="checkbox"/> | 125.000  | 131.406    | 8921.24  | 0.0022 | P    | 0.8  |
| 5 | <input type="checkbox"/> | 250.000  | 263.312    | 17303.94 | 0.0044 | P    | 0.6  |
| 6 | <input type="checkbox"/> | 500.000  | 508.151    | 32346.25 | 0.0083 | P    | 1.2  |
| 7 | <input type="checkbox"/> | 1000.000 | 991.591    | 62725.48 | 0.0162 | P    | 0.3  |
| 8 | <input type="checkbox"/> |          |            | 322.84   | 0.0001 | P    | 11.4 |

$$y = 1.6276\text{E-}005 * x + 6.7779\text{E-}005$$

$$R = 0.9998$$

$$DL = 1.403$$

$$BEC = 4.164$$

Weight: &lt;None&gt;

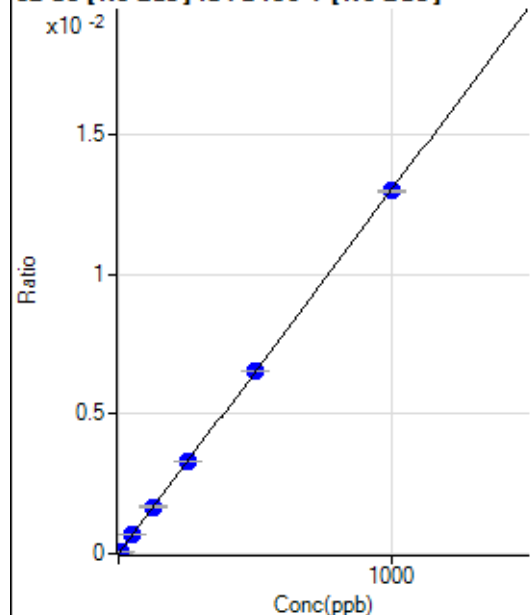
Min Conc: 0

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS      | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|----------|-------|----------|-----|
| 1 | <input type="checkbox"/> |       |            | 13114.48 |       | P        | 2.0 |
| 2 | <input type="checkbox"/> |       |            | 12986.55 |       | P        | 0.5 |
| 3 | <input type="checkbox"/> |       |            | 13195.16 |       | P        | 1.1 |
| 4 | <input type="checkbox"/> |       |            | 12366.62 |       | P        | 2.2 |
| 5 | <input type="checkbox"/> |       |            | 12224.80 |       | P        | 1.1 |
| 6 | <input type="checkbox"/> |       |            | 11957.87 |       | P        | 2.4 |
| 7 | <input type="checkbox"/> |       |            | 11688.25 |       | P        | 0.9 |
| 8 | <input type="checkbox"/> |       |            | 12455.58 |       | P        | 1.8 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 46.71  |       | P        | 32.7 |
| 2 | <input type="checkbox"/> |       |            | 70.07  |       | P        | 24.7 |
| 3 | <input type="checkbox"/> |       |            | 46.71  |       | P        | 61.9 |
| 4 | <input type="checkbox"/> |       |            | 63.40  |       | P        | 63.8 |
| 5 | <input type="checkbox"/> |       |            | 40.04  |       | P        | 43.3 |
| 6 | <input type="checkbox"/> |       |            | 63.40  |       | P        | 39.7 |
| 7 | <input type="checkbox"/> |       |            | 76.74  |       | P        | 15.1 |
| 8 | <input type="checkbox"/> |       |            | 110.11 |       | P        | 56.8 |

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS       | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-----------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 73.25     | 0.0000 | P    | 204. |
| 2 | <input type="checkbox"/> | 5.000    | 5.254      | 1253.01   | 0.0001 | P    | 6.4  |
| 3 | <input type="checkbox"/> | 50.000   | 52.167     | 11831.01  | 0.0007 | P    | 1.4  |
| 4 | <input type="checkbox"/> | 125.000  | 129.151    | 28289.36  | 0.0017 | P    | 1.2  |
| 5 | <input type="checkbox"/> | 250.000  | 254.593    | 56087.19  | 0.0033 | P    | 1.0  |
| 6 | <input type="checkbox"/> | 500.000  | 501.585    | 108696.06 | 0.0065 | P    | 0.4  |
| 7 | <input type="checkbox"/> | 1000.000 | 997.431    | 211978.87 | 0.0130 | P    | 0.4  |
| 8 | <input type="checkbox"/> |          |            | 205.80    | 0.0000 | P    | 100. |

$$y = 1.3025\text{E-}005 * x + 4.2813\text{E-}006$$

$$R = 1.0000$$

$$DL = 2.014$$

$$BEC = 0.3287$$

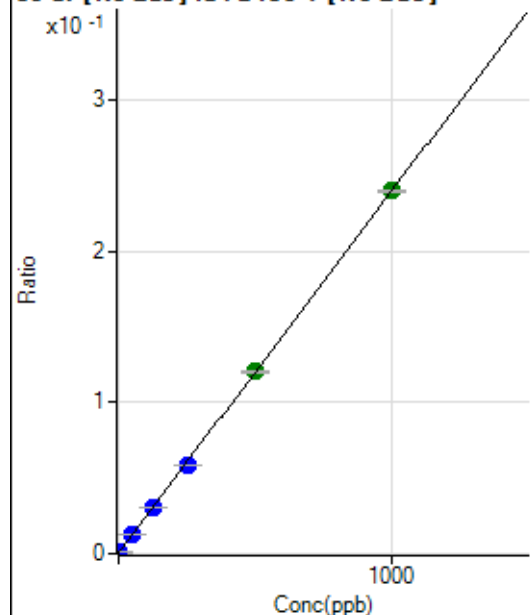
Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc. | Calc Conc. | CPS     | Ratio | Det. | RSD |
|---|--------------------------|-------|------------|---------|-------|------|-----|
| 1 | <input type="checkbox"/> |       |            | 5300.99 |       | P    | 3.2 |
| 2 | <input type="checkbox"/> |       |            | 5255.43 |       | P    | 0.5 |
| 3 | <input type="checkbox"/> |       |            | 5204.30 |       | P    | 1.6 |
| 4 | <input type="checkbox"/> |       |            | 5429.94 |       | P    | 3.5 |
| 5 | <input type="checkbox"/> |       |            | 5172.06 |       | P    | 3.4 |
| 6 | <input type="checkbox"/> |       |            | 4869.74 |       | P    | 3.2 |
| 7 | <input type="checkbox"/> |       |            | 4891.96 |       | P    | 2.7 |
| 8 | <input type="checkbox"/> |       |            | 4834.17 |       | P    | 2.5 |

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 8463.78    | 0.0005 | P   | 0.5 |
| 2 | <input type="checkbox"/> | 1.000    | 1.026      | 12719.69   | 0.0007 | P   | 4.3 |
| 3 | <input type="checkbox"/> | 50.000   | 48.633     | 209917.52  | 0.0121 | P   | 0.4 |
| 4 | <input type="checkbox"/> | 125.000  | 124.792    | 509248.22  | 0.0304 | P   | 0.3 |
| 5 | <input type="checkbox"/> | 250.000  | 242.327    | 987931.14  | 0.0585 | P   | 0.5 |
| 6 | <input type="checkbox"/> | 500.000  | 501.298    | 2002975.72 | 0.1205 | A   | 0.5 |
| 7 | <input type="checkbox"/> | 1000.000 | 1001.363   | 3917161.20 | 0.2401 | A   | 0.7 |
| 8 | <input type="checkbox"/> |          |            | 33188.22   | 0.0021 | P   | 1.9 |

$$y = 2.3932E-004 * x + 4.9281E-004$$

$$R = 1.0000$$

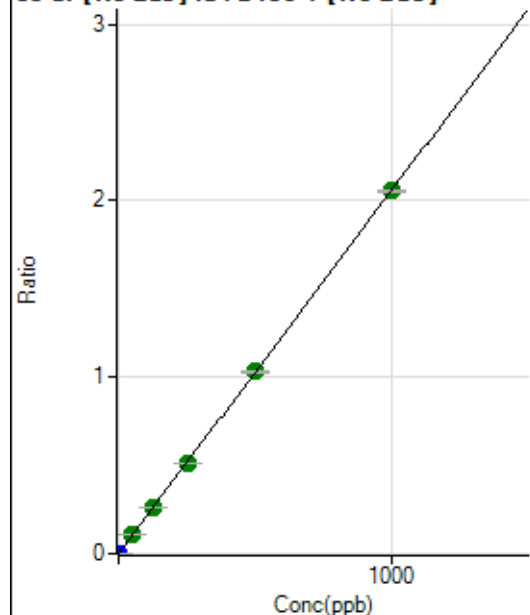
$$DL = 0.03012$$

$$BEC = 2.059$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 522.24      | 0.0000 | P   | 14.6 |
| 2 | <input type="checkbox"/> | 1.000    | 0.977      | 35117.65    | 0.0020 | P   | 1.3  |
| 3 | <input type="checkbox"/> | 50.000   | 50.774     | 1807172.07  | 0.1044 | A   | 0.8  |
| 4 | <input type="checkbox"/> | 125.000  | 128.136    | 4420743.81  | 0.2635 | A   | 0.5  |
| 5 | <input type="checkbox"/> | 250.000  | 249.148    | 8654736.04  | 0.5124 | A   | 0.9  |
| 6 | <input type="checkbox"/> | 500.000  | 501.165    | 17135733.37 | 1.0306 | A   | 0.9  |
| 7 | <input type="checkbox"/> | 1000.000 | 999.200    | 33517120.89 | 2.0548 | A   | 0.6  |
| 8 | <input type="checkbox"/> |          |            | 224752.17   | 0.0142 | P   | 1.7  |

$$y = 0.0021 * x + 3.0451E-005$$

$$R = 1.0000$$

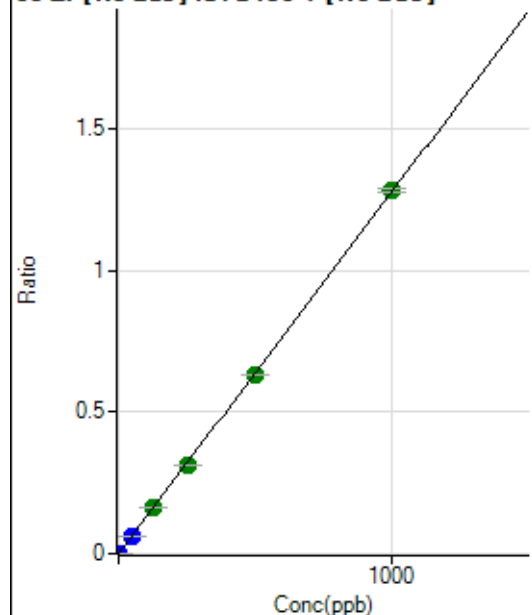
$$DL = 0.006476$$

$$BEC = 0.01481$$

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      | 1127.85     | 0.0001 | P   | 9.0 |
| 2 | <input type="checkbox"/> | 1.000    | 0.946      | 21944.62    | 0.0013 | P   | 2.4 |
| 3 | <input type="checkbox"/> | 50.000   | 48.854     | 1081009.53  | 0.0625 | P   | 0.5 |
| 4 | <input type="checkbox"/> | 125.000  | 126.792    | 2718141.03  | 0.1620 | A   | 0.6 |
| 5 | <input type="checkbox"/> | 250.000  | 245.834    | 5305641.92  | 0.3141 | A   | 0.7 |
| 6 | <input type="checkbox"/> | 500.000  | 494.281    | 10499884.69 | 0.6315 | A   | 0.4 |
| 7 | <input type="checkbox"/> | 1000.000 | 1003.735   | 20915719.91 | 1.2823 | A   | 1.2 |
| 8 | <input type="checkbox"/> |          |            | 11490.89    | 0.0007 | P   | 3.1 |

$$y = 0.0013 * x + 6.5602E-005$$

$$R = 1.0000$$

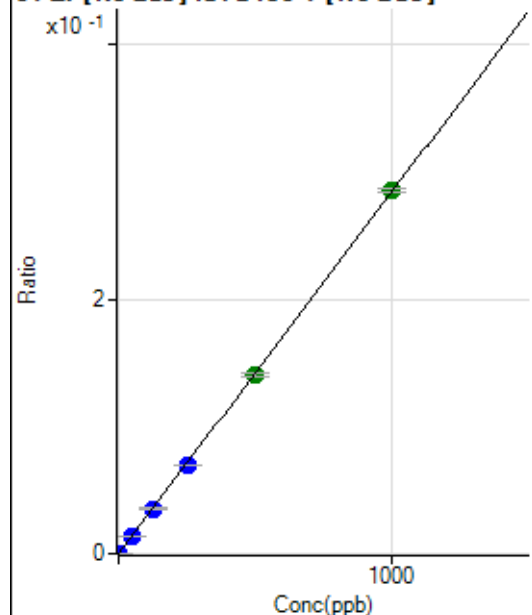
$$DL = 0.01386$$

$$BEC = 0.05136$$

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      | 208.34     | 0.0000 | P   | 14.0 |
| 2 | <input type="checkbox"/> | 1.000    | 0.964      | 4923.18    | 0.0003 | P   | 2.7  |
| 3 | <input type="checkbox"/> | 50.000   | 49.077     | 241417.71  | 0.0140 | P   | 0.4  |
| 4 | <input type="checkbox"/> | 125.000  | 124.939    | 595487.06  | 0.0355 | P   | 0.9  |
| 5 | <input type="checkbox"/> | 250.000  | 243.215    | 1167127.22 | 0.0691 | P   | 0.9  |
| 6 | <input type="checkbox"/> | 500.000  | 495.640    | 2341077.22 | 0.1408 | A   | 1.8  |
| 7 | <input type="checkbox"/> | 1000.000 | 1003.930   | 4651370.03 | 0.2852 | A   | 1.0  |
| 8 | <input type="checkbox"/> |          |            | 2530.82    | 0.0002 | P   | 4.7  |

$$y = 2.8403E-004 * x + 1.2107E-005$$

$$R = 1.0000$$

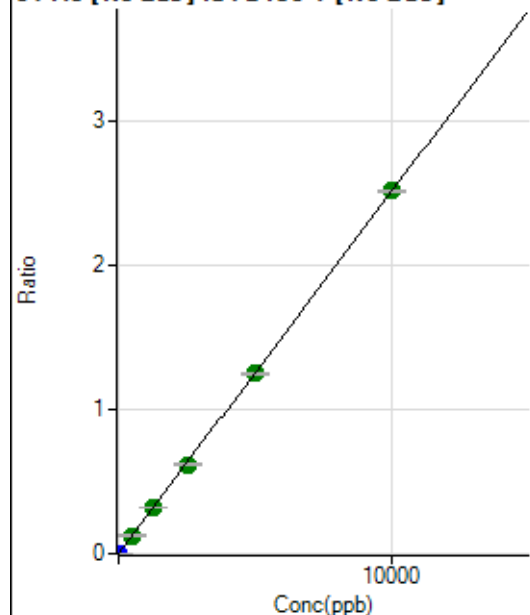
$$DL = 0.01794$$

$$BEC = 0.04263$$

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      | 455.58      | 0.0000 | P   | 2.8 |
| 2 | <input type="checkbox"/> | 5.000     | 5.672      | 24941.19    | 0.0014 | P   | 0.5 |
| 3 | <input type="checkbox"/> | 500.000   | 502.531    | 2179251.20  | 0.1259 | A   | 0.8 |
| 4 | <input type="checkbox"/> | 1250.000  | 1269.364   | 5335438.49  | 0.3181 | A   | 1.6 |
| 5 | <input type="checkbox"/> | 2500.000  | 2466.155   | 10437856.48 | 0.6179 | A   | 0.5 |
| 6 | <input type="checkbox"/> | 5000.000  | 4971.982   | 20713735.19 | 1.2458 | A   | 0.7 |
| 7 | <input type="checkbox"/> | 10000.000 | 10019.923  | 40950668.62 | 2.5105 | A   | 0.6 |
| 8 | <input type="checkbox"/> |           |            | 14793.93    | 0.0009 | P   | 4.8 |

$$y = 2.5055\text{E-}004 * x + 2.6525\text{E-}005$$

$$R = 1.0000$$

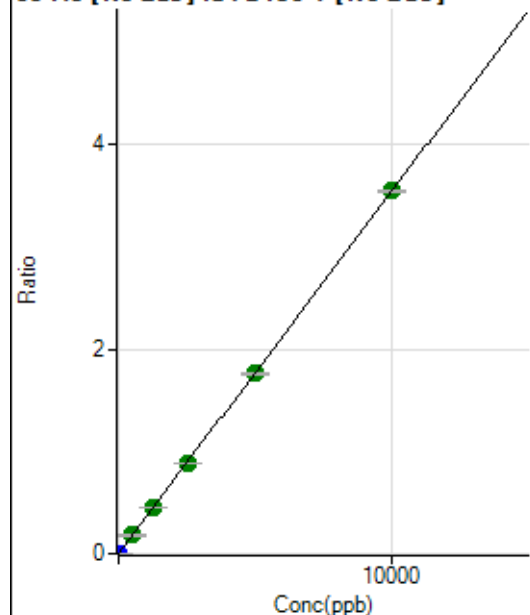
$$DL = 0.008769$$

$$BEC = 0.1059$$

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      | 161.11      | 0.0000 | P   | 34.6 |
| 2 | <input type="checkbox"/> | 5.000     | 5.014      | 30735.75    | 0.0018 | P   | 1.1  |
| 3 | <input type="checkbox"/> | 500.000   | 504.539    | 3089757.19  | 0.1786 | A   | 0.3  |
| 4 | <input type="checkbox"/> | 1250.000  | 1269.881   | 7538852.60  | 0.4494 | A   | 0.2  |
| 5 | <input type="checkbox"/> | 2500.000  | 2480.771   | 14829968.56 | 0.8779 | A   | 0.8  |
| 6 | <input type="checkbox"/> | 5000.000  | 4967.792   | 29231327.04 | 1.7581 | A   | 0.6  |
| 7 | <input type="checkbox"/> | 10000.000 | 10018.199  | 57830902.34 | 3.5453 | A   | 0.6  |
| 8 | <input type="checkbox"/> |           |            | 18692.96    | 0.0012 | P   | 5.4  |

$$y = 3.5389\text{E-}004 * x + 9.3951\text{E-}006$$

$$R = 1.0000$$

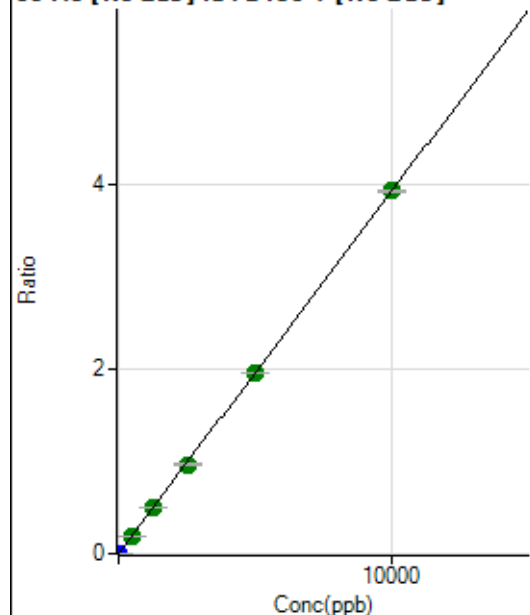
$$DL = 0.02752$$

$$BEC = 0.02655$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio  | Det | RSD  |
|---|--------------------------|-----------|------------|-------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 252.79      | 0.0000 | P   | 29.6 |
| 2 | <input type="checkbox"/> | 5.000     | 5.064      | 34404.97    | 0.0020 | P   | 1.0  |
| 3 | <input type="checkbox"/> | 500.000   | 500.967    | 3393987.60  | 0.1961 | A   | 0.9  |
| 4 | <input type="checkbox"/> | 1250.000  | 1277.031   | 8387175.45  | 0.5000 | A   | 0.7  |
| 5 | <input type="checkbox"/> | 2500.000  | 2465.273   | 16303701.58 | 0.9652 | A   | 0.8  |
| 6 | <input type="checkbox"/> | 5000.000  | 4976.893   | 32398389.96 | 1.9485 | A   | 0.2  |
| 7 | <input type="checkbox"/> | 10000.000 | 10016.808  | 63972191.01 | 3.9217 | A   | 0.7  |
| 8 | <input type="checkbox"/> |           |            | 26037.61    | 0.0016 | P   | 4.9  |

$$y = 3.9151E-004 * x + 1.4660E-005$$

$$R = 1.0000$$

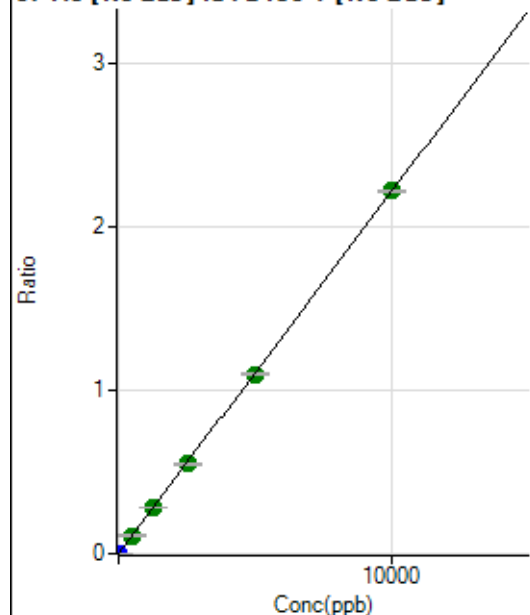
$$DL = 0.0332$$

$$BEC = 0.03744$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio  | Det | RSD  |
|---|--------------------------|-----------|------------|-------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 86.11       | 0.0000 | P   | 21.0 |
| 2 | <input type="checkbox"/> | 5.000     | 4.899      | 18751.35    | 0.0011 | P   | 1.0  |
| 3 | <input type="checkbox"/> | 500.000   | 501.785    | 1920134.42  | 0.1110 | A   | 1.4  |
| 4 | <input type="checkbox"/> | 1250.000  | 1279.008   | 4744843.60  | 0.2828 | A   | 0.3  |
| 5 | <input type="checkbox"/> | 2500.000  | 2476.129   | 9249656.28  | 0.5476 | A   | 1.0  |
| 6 | <input type="checkbox"/> | 5000.000  | 4964.103   | 18253042.60 | 1.0978 | A   | 0.8  |
| 7 | <input type="checkbox"/> | 10000.000 | 10020.201  | 36145955.67 | 2.2159 | A   | 0.7  |
| 8 | <input type="checkbox"/> |           |            | 11699.40    | 0.0007 | P   | 4.4  |

$$y = 2.2114E-004 * x + 5.0065E-006$$

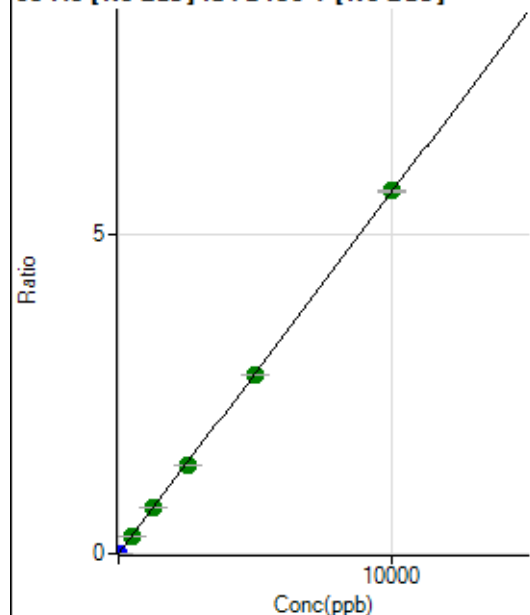
$$R = 1.0000$$

$$DL = 0.01429$$

$$BEC = 0.02264$$

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      | 213.90      | 0.0000 | P   | 13.4 |
| 2 | <input type="checkbox"/> | 5.000     | 4.852      | 47567.00    | 0.0028 | P   | 0.9  |
| 3 | <input type="checkbox"/> | 500.000   | 496.179    | 4864385.70  | 0.2811 | A   | 1.7  |
| 4 | <input type="checkbox"/> | 1250.000  | 1275.494   | 12121189.42 | 0.7226 | A   | 0.8  |
| 5 | <input type="checkbox"/> | 2500.000  | 2449.745   | 23441685.59 | 1.3878 | A   | 0.7  |
| 6 | <input type="checkbox"/> | 5000.000  | 4937.618   | 46507884.37 | 2.7971 | A   | 0.5  |
| 7 | <input type="checkbox"/> | 10000.000 | 10040.759  | 92783859.71 | 5.6880 | A   | 0.5  |
| 8 | <input type="checkbox"/> |           |            | 28623.11    | 0.0018 | P   | 5.2  |

$$y = 5.6649\text{E-}004 * x + 1.2441\text{E-}005$$

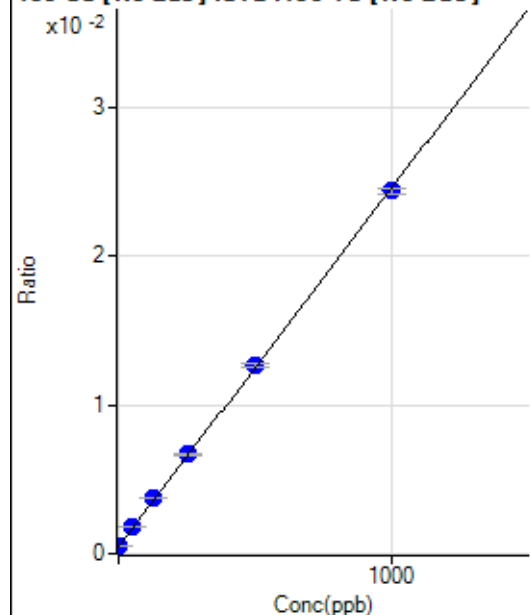
$$R = 0.9999$$

$$DL = 0.008813$$

$$BEC = 0.02196$$

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      | 6095.90   | 0.0005 | P   | 2.4 |
| 2 | <input type="checkbox"/> | 1.000    | 1.199      | 6565.53   | 0.0005 | P   | 2.2 |
| 3 | <input type="checkbox"/> | 50.000   | 55.100     | 23614.14  | 0.0018 | P   | 1.8 |
| 4 | <input type="checkbox"/> | 125.000  | 134.131    | 48080.44  | 0.0037 | P   | 0.3 |
| 5 | <input type="checkbox"/> | 250.000  | 257.783    | 88156.80  | 0.0067 | P   | 1.1 |
| 6 | <input type="checkbox"/> | 500.000  | 507.786    | 166693.94 | 0.0127 | P   | 1.6 |
| 7 | <input type="checkbox"/> | 1000.000 | 992.764    | 318425.58 | 0.0244 | P   | 1.5 |
| 8 | <input type="checkbox"/> |          |            | 5770.73   | 0.0005 | P   | 2.7 |

$$y = 2.4095\text{E-}005 * x + 4.7146\text{E-}004$$

$$R = 0.9999$$

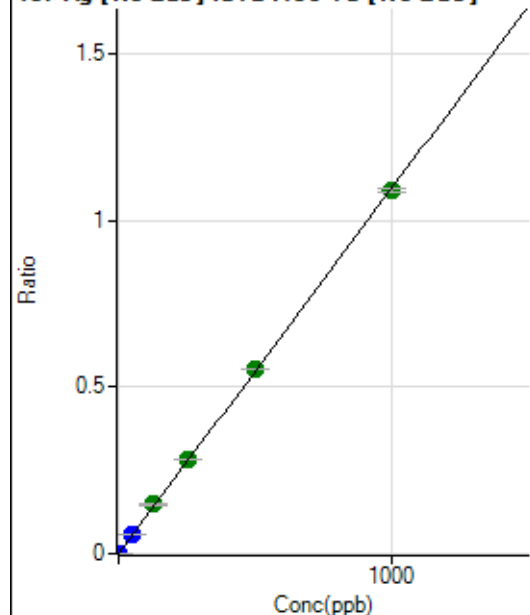
$$DL = 1.397$$

$$BEC = 19.57$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 100.01      | 0.0000 | P   | 13.2 |
| 2 | <input type="checkbox"/> | 1.000    | 0.876      | 12714.25    | 0.0010 | P   | 10.8 |
| 3 | <input type="checkbox"/> | 50.000   | 52.143     | 750356.68   | 0.0572 | P   | 1.3  |
| 4 | <input type="checkbox"/> | 125.000  | 135.072    | 1922410.07  | 0.1481 | A   | 1.2  |
| 5 | <input type="checkbox"/> | 250.000  | 257.834    | 3728618.05  | 0.2827 | A   | 0.6  |
| 6 | <input type="checkbox"/> | 500.000  | 505.790    | 7274053.89  | 0.5545 | A   | 0.8  |
| 7 | <input type="checkbox"/> | 1000.000 | 993.781    | 14222171.85 | 1.0894 | A   | 1.1  |
| 8 | <input type="checkbox"/> |          |            | 5431.73     | 0.0004 | P   | 1.8  |

$$y = 0.0011 * x + 7.7237E-006$$

$$R = 0.9999$$

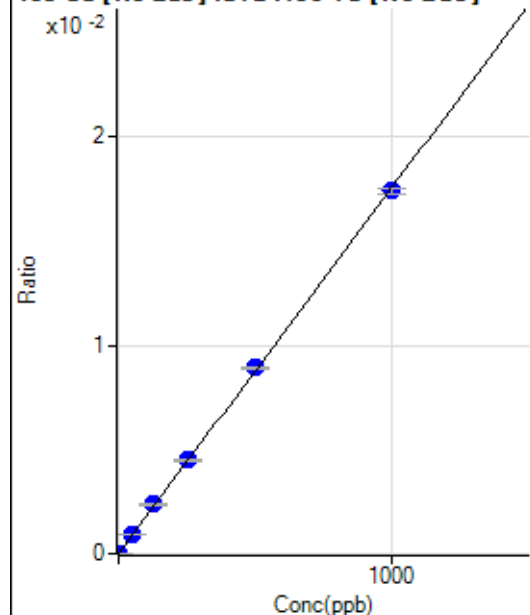
$$DL = 0.002787$$

$$BEC = 0.007046$$

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      | 70.83     | 0.0000 | P   | 25.0 |
| 2 | <input type="checkbox"/> | 1.000    | 1.021      | 306.95    | 0.0000 | P   | 7.4  |
| 3 | <input type="checkbox"/> | 50.000   | 54.806     | 12687.62  | 0.0010 | P   | 0.3  |
| 4 | <input type="checkbox"/> | 125.000  | 134.488    | 30689.57  | 0.0024 | P   | 1.7  |
| 5 | <input type="checkbox"/> | 250.000  | 256.557    | 59425.30  | 0.0045 | P   | 1.6  |
| 6 | <input type="checkbox"/> | 500.000  | 508.662    | 117098.78 | 0.0089 | P   | 0.5  |
| 7 | <input type="checkbox"/> | 1000.000 | 992.604    | 227308.38 | 0.0174 | P   | 1.7  |
| 8 | <input type="checkbox"/> |          |            | 155.56    | 0.0000 | P   | 14.6 |

$$y = 1.7537E-005 * x + 5.4713E-006$$

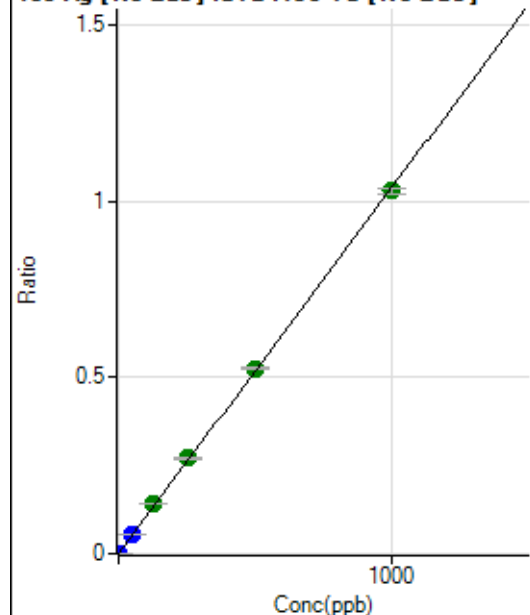
$$R = 0.9999$$

$$DL = 0.2336$$

$$BEC = 0.312$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 22.22       | 0.0000 | P   | 77.4 |
| 2 | <input type="checkbox"/> | 1.000    | 0.874      | 11946.96    | 0.0009 | P   | 9.3  |
| 3 | <input type="checkbox"/> | 50.000   | 52.083     | 710160.08   | 0.0541 | P   | 1.8  |
| 4 | <input type="checkbox"/> | 125.000  | 136.969    | 1847295.40  | 0.1423 | A   | 1.3  |
| 5 | <input type="checkbox"/> | 250.000  | 260.928    | 3575705.59  | 0.2711 | A   | 0.7  |
| 6 | <input type="checkbox"/> | 500.000  | 507.187    | 6912135.74  | 0.5269 | A   | 0.8  |
| 7 | <input type="checkbox"/> | 1000.000 | 992.074    | 13453622.26 | 1.0306 | A   | 1.7  |
| 8 | <input type="checkbox"/> |          |            | 5270.55     | 0.0004 | P   | 5.7  |

$$y = 0.0010 * x + 1.7165E-006$$

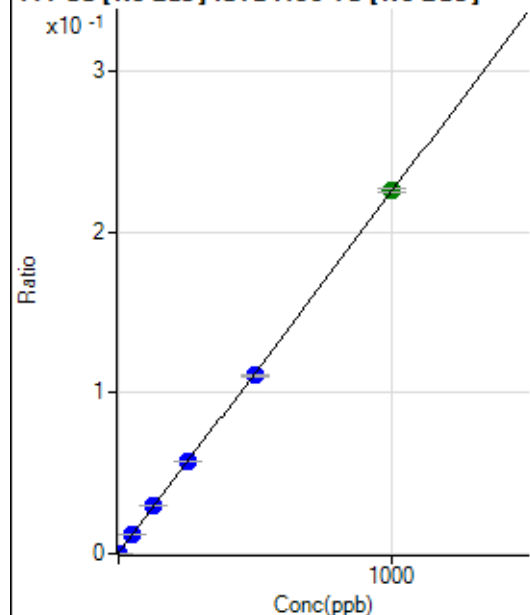
$$R = 0.9998$$

$$DL = 0.003839$$

$$BEC = 0.001652$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 4270.33    | 0.0003 | P   | 2.3 |
| 2 | <input type="checkbox"/> | 1.000    | 1.060      | 7459.16    | 0.0006 | P   | 3.6 |
| 3 | <input type="checkbox"/> | 50.000   | 52.140     | 158153.30  | 0.0120 | P   | 1.0 |
| 4 | <input type="checkbox"/> | 125.000  | 132.278    | 390258.82  | 0.0301 | P   | 1.4 |
| 5 | <input type="checkbox"/> | 250.000  | 252.200    | 752101.27  | 0.0570 | P   | 0.3 |
| 6 | <input type="checkbox"/> | 500.000  | 491.494    | 1453604.80 | 0.1108 | P   | 0.3 |
| 7 | <input type="checkbox"/> | 1000.000 | 1002.686   | 2946367.00 | 0.2257 | A   | 1.2 |
| 8 | <input type="checkbox"/> |          |            | 4908.44    | 0.0004 | P   | 2.9 |

$$y = 2.2476E-004 * x + 3.3027E-004$$

$$R = 0.9999$$

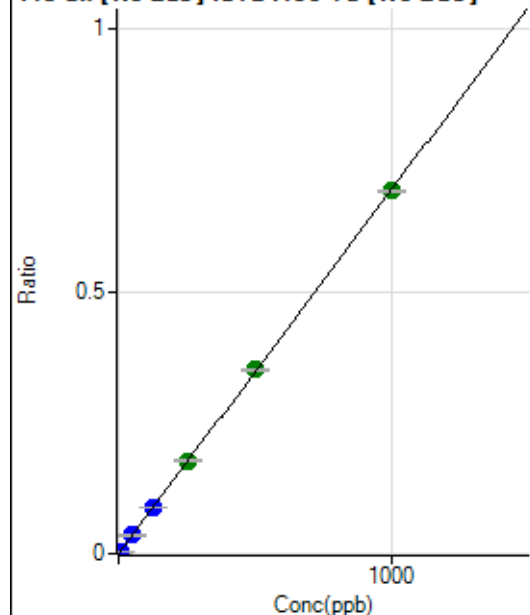
$$DL = 0.1031$$

$$BEC = 1.469$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 908.39     | 0.0001 | P   | 5.6 |
| 2 | <input type="checkbox"/> | 5.000    | 4.962      | 46146.89   | 0.0035 | P   | 0.6 |
| 3 | <input type="checkbox"/> | 50.000   | 50.292     | 459427.84  | 0.0350 | P   | 0.9 |
| 4 | <input type="checkbox"/> | 125.000  | 126.168    | 1138597.86 | 0.0877 | P   | 1.5 |
| 5 | <input type="checkbox"/> | 250.000  | 254.263    | 2330553.83 | 0.1767 | A   | 2.4 |
| 6 | <input type="checkbox"/> | 500.000  | 504.475    | 4597978.75 | 0.3505 | A   | 0.4 |
| 7 | <input type="checkbox"/> | 1000.000 | 996.537    | 9037668.26 | 0.6923 | A   | 0.7 |
| 8 | <input type="checkbox"/> |          |            | 8216.46    | 0.0007 | P   | 1.9 |

$$y = 6.9459E-004 * x + 7.0207E-005$$

$$R = 1.0000$$

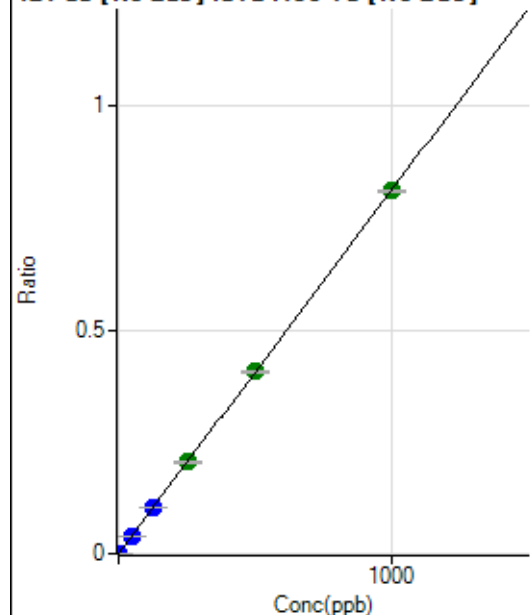
$$DL = 0.01713$$

$$BEC = 0.1011$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 86.11       | 0.0000 | P   | 39.3 |
| 2 | <input type="checkbox"/> | 2.000    | 1.974      | 21113.29    | 0.0016 | P   | 3.3  |
| 3 | <input type="checkbox"/> | 50.000   | 49.467     | 527151.89   | 0.0402 | P   | 1.5  |
| 4 | <input type="checkbox"/> | 125.000  | 125.934    | 1327211.83  | 0.1022 | P   | 1.5  |
| 5 | <input type="checkbox"/> | 250.000  | 252.663    | 2705597.24  | 0.2051 | A   | 1.1  |
| 6 | <input type="checkbox"/> | 500.000  | 501.433    | 5340349.43  | 0.4070 | A   | 0.9  |
| 7 | <input type="checkbox"/> | 1000.000 | 998.528    | 10582100.58 | 0.8106 | A   | 0.3  |
| 8 | <input type="checkbox"/> |          |            | 7315.93     | 0.0006 | P   | 2.0  |

$$y = 8.1176E-004 * x + 6.6402E-006$$

$$R = 1.0000$$

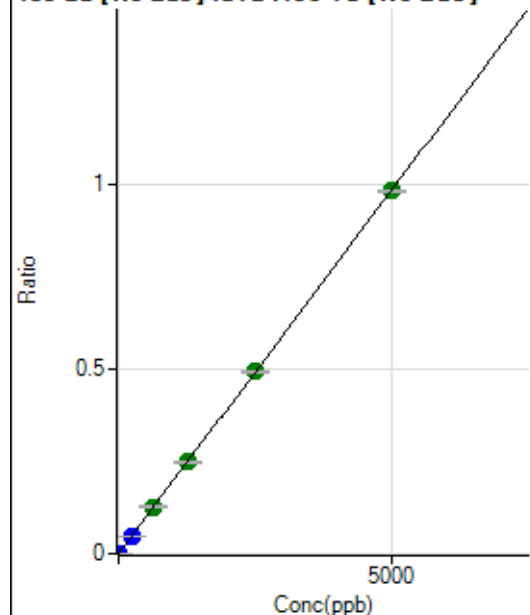
$$DL = 0.009644$$

$$BEC = 0.00818$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 50.00       | 0.0000 | P   | 27.8 |
| 2 | <input type="checkbox"/> | 10.000   | 9.634      | 24889.10    | 0.0019 | P   | 2.1  |
| 3 | <input type="checkbox"/> | 250.000  | 244.631    | 630956.12   | 0.0481 | P   | 2.0  |
| 4 | <input type="checkbox"/> | 625.000  | 644.242    | 1643391.83  | 0.1266 | A   | 1.7  |
| 5 | <input type="checkbox"/> | 1250.000 | 1260.448   | 3266939.64  | 0.2477 | A   | 1.0  |
| 6 | <input type="checkbox"/> | 2500.000 | 2503.852   | 6454551.58  | 0.4920 | A   | 0.9  |
| 7 | <input type="checkbox"/> | 5000.000 | 4993.326   | 12808611.66 | 0.9811 | A   | 0.6  |
| 8 | <input type="checkbox"/> |          |            | 6707.32     | 0.0005 | P   | 6.2  |

$$y = 1.9649\text{E-}004 * x + 3.8565\text{E-}006$$

$$R = 1.0000$$

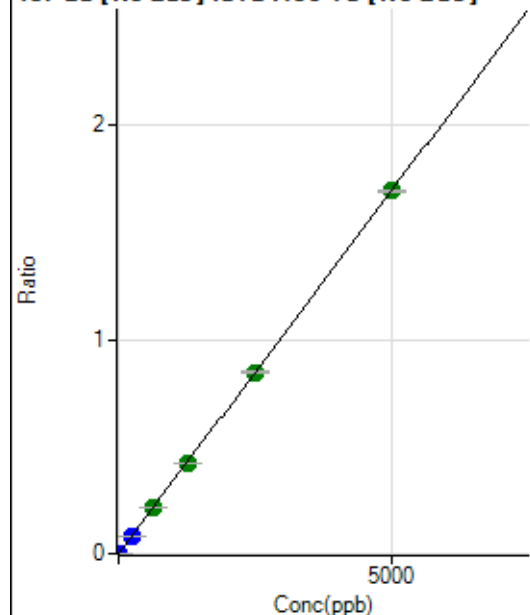
$$DL = 0.01637$$

$$BEC = 0.01963$$

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      | 61.11       | 0.0000 | P   | 43.1 |
| 2 | <input type="checkbox"/> | 10.000   | 9.582      | 42661.98    | 0.0033 | P   | 0.6  |
| 3 | <input type="checkbox"/> | 250.000  | 247.375    | 1100120.07  | 0.0838 | P   | 1.4  |
| 4 | <input type="checkbox"/> | 625.000  | 645.133    | 2837651.54  | 0.2186 | A   | 1.1  |
| 5 | <input type="checkbox"/> | 1250.000 | 1249.730   | 5585299.74  | 0.4234 | A   | 0.8  |
| 6 | <input type="checkbox"/> | 2500.000 | 2496.815   | 11098179.41 | 0.8459 | A   | 0.6  |
| 7 | <input type="checkbox"/> | 5000.000 | 4999.275   | 22112361.61 | 1.6938 | A   | 0.6  |
| 8 | <input type="checkbox"/> |          |            | 11421.55    | 0.0009 | P   | 2.0  |

$$y = 3.3880\text{E-}004 * x + 4.7158\text{E-}006$$

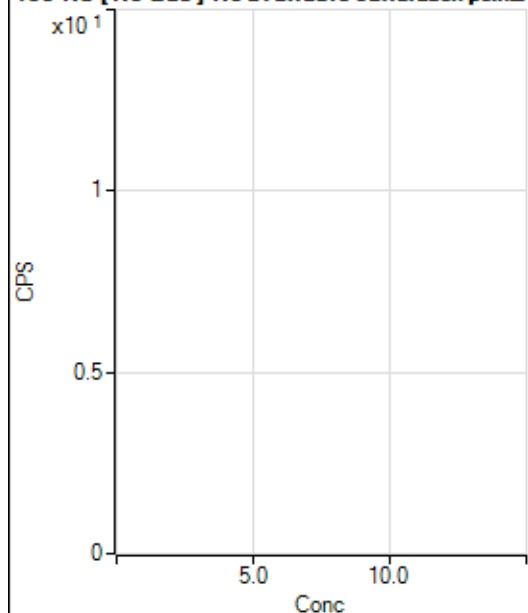
$$R = 1.0000$$

$$DL = 0.01802$$

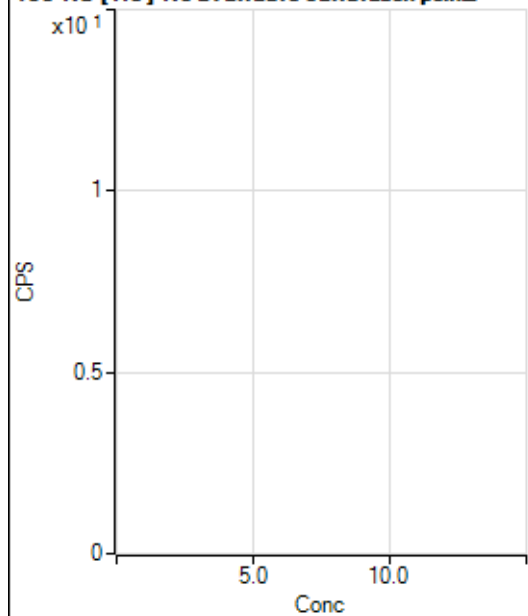
$$BEC = 0.01392$$

Weight: &lt;None&gt;

Min Conc: 0

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

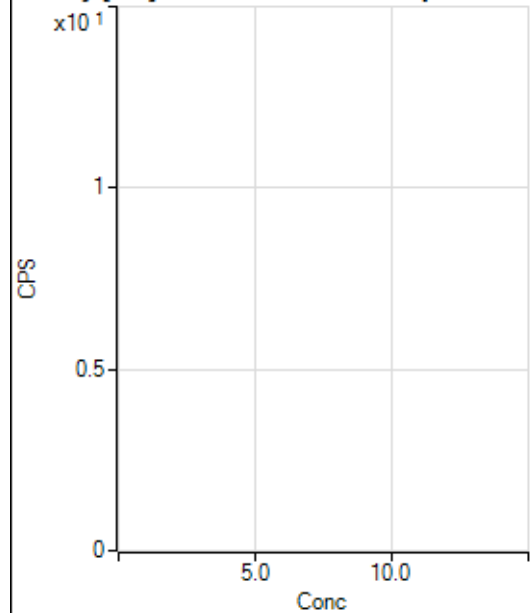
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 0.00   |       | P        |      |
| 2 | <input type="checkbox"/> |       |            | 6.67   |       | P        | 0.0  |
| 3 | <input type="checkbox"/> |       |            | 60.00  |       | P        | 48.4 |
| 4 | <input type="checkbox"/> |       |            | 100.00 |       | P        | 35.3 |
| 5 | <input type="checkbox"/> |       |            | 186.67 |       | P        | 29.2 |
| 6 | <input type="checkbox"/> |       |            | 415.57 |       | P        | 5.2  |
| 7 | <input type="checkbox"/> |       |            | 793.37 |       | P        | 2.2  |
| 8 | <input type="checkbox"/> |       |            | 131.11 |       | P        | 20.5 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 0.00   |       | P        |      |
| 2 | <input type="checkbox"/> |       |            | 1.11   |       | P        | 173. |
| 3 | <input type="checkbox"/> |       |            | 11.11  |       | P        | 17.3 |
| 4 | <input type="checkbox"/> |       |            | 21.11  |       | P        | 36.5 |
| 5 | <input type="checkbox"/> |       |            | 52.22  |       | P        | 26.6 |
| 6 | <input type="checkbox"/> |       |            | 74.45  |       | P        | 14.4 |
| 7 | <input type="checkbox"/> |       |            | 175.56 |       | P        | 5.5  |
| 8 | <input type="checkbox"/> |       |            | 63.33  |       | P        | 41.1 |

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

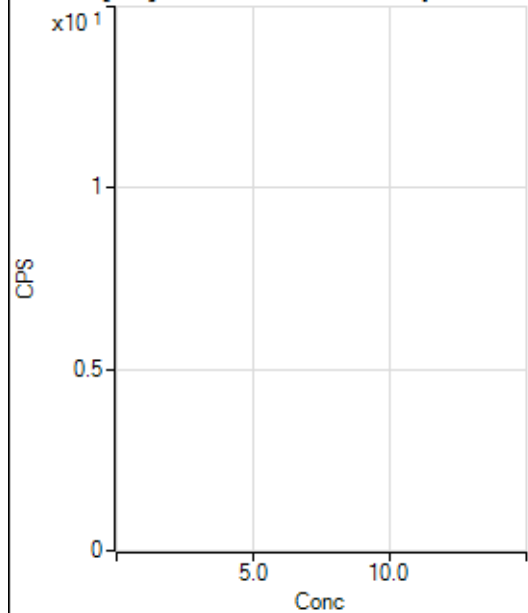
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS     | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|---------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 25.00   |       | P        | 57.7 |
| 2 | <input type="checkbox"/> |       |            | 27.78   |       | P        | 69.3 |
| 3 | <input type="checkbox"/> |       |            | 61.11   |       | P        | 28.4 |
| 4 | <input type="checkbox"/> |       |            | 127.78  |       | P        | 21.0 |
| 5 | <input type="checkbox"/> |       |            | 205.56  |       | P        | 9.4  |
| 6 | <input type="checkbox"/> |       |            | 319.45  |       | P        | 13.4 |
| 7 | <input type="checkbox"/> |       |            | 675.03  |       | P        | 8.6  |
| 8 | <input type="checkbox"/> |       |            | 1291.76 |       | P        | 4.9  |

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

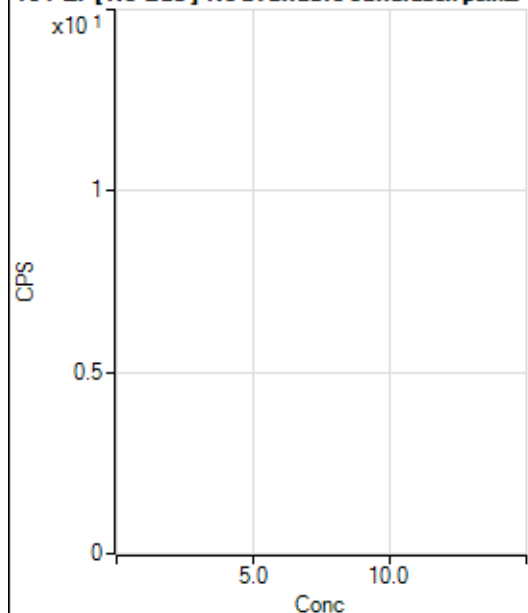
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 15.56  |       | P        | 12.4 |
| 2 | <input type="checkbox"/> |       |            | 6.67   |       | P        | 50.0 |
| 3 | <input type="checkbox"/> |       |            | 36.67  |       | P        | 24.0 |
| 4 | <input type="checkbox"/> |       |            | 102.22 |       | P        | 6.8  |
| 5 | <input type="checkbox"/> |       |            | 153.34 |       | P        | 14.3 |
| 6 | <input type="checkbox"/> |       |            | 282.23 |       | P        | 18.1 |
| 7 | <input type="checkbox"/> |       |            | 556.68 |       | P        | 3.7  |
| 8 | <input type="checkbox"/> |       |            | 806.70 |       | P        | 4.6  |

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

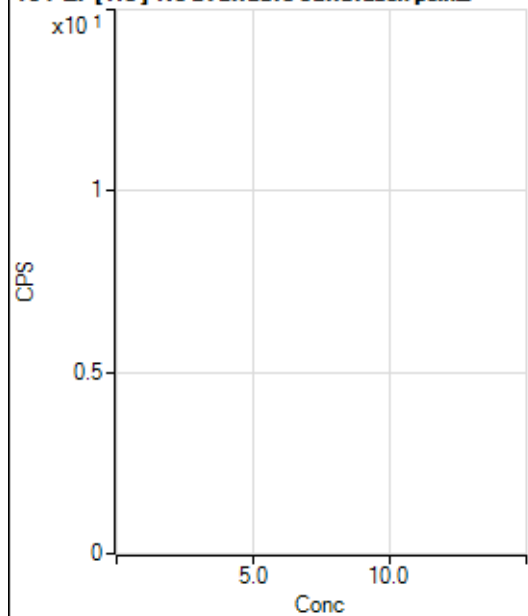
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 63.89  |       | P        | 41.9 |
| 2 | <input type="checkbox"/> |       |            | 130.56 |       | P        | 13.3 |
| 3 | <input type="checkbox"/> |       |            | 127.78 |       | P        | 13.6 |
| 4 | <input type="checkbox"/> |       |            | 158.34 |       | P        | 24.1 |
| 5 | <input type="checkbox"/> |       |            | 186.12 |       | P        | 6.8  |
| 6 | <input type="checkbox"/> |       |            | 352.79 |       | P        | 25.5 |
| 7 | <input type="checkbox"/> |       |            | 488.91 |       | P        | 5.2  |
| 8 | <input type="checkbox"/> |       |            | 872.27 |       | P        | 3.6  |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 236.67 |       | P        | 7.8  |
| 2 | <input type="checkbox"/> |       |            | 252.23 |       | P        | 2.8  |
| 3 | <input type="checkbox"/> |       |            | 216.67 |       | P        | 2.7  |
| 4 | <input type="checkbox"/> |       |            | 242.23 |       | P        | 10.4 |
| 5 | <input type="checkbox"/> |       |            | 256.67 |       | P        | 13.7 |
| 6 | <input type="checkbox"/> |       |            | 345.56 |       | P        | 4.9  |
| 7 | <input type="checkbox"/> |       |            | 538.90 |       | P        | 9.2  |
| 8 | <input type="checkbox"/> |       |            | 845.59 |       | P        | 4.5  |

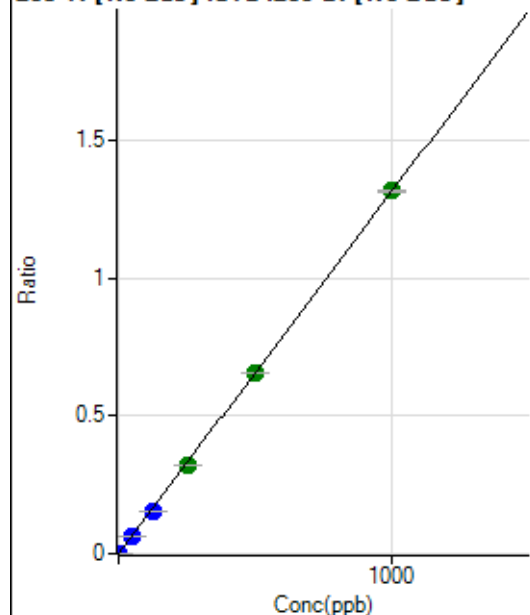
**164 Er [ No Gas ] No available calibration points**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 83.33  |       | P        | 26.5 |
| 2 | <input type="checkbox"/> |       |            | 83.34  |       | P        | 40.0 |
| 3 | <input type="checkbox"/> |       |            | 100.00 |       | P        | 8.3  |
| 4 | <input type="checkbox"/> |       |            | 69.45  |       | P        | 36.7 |
| 5 | <input type="checkbox"/> |       |            | 122.23 |       | P        | 30.7 |
| 6 | <input type="checkbox"/> |       |            | 138.90 |       | P        | 6.9  |
| 7 | <input type="checkbox"/> |       |            | 244.45 |       | P        | 11.0 |
| 8 | <input type="checkbox"/> |       |            | 191.68 |       | P        | 15.1 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 48.89  |       | P        | 28.4 |
| 2 | <input type="checkbox"/> |       |            | 52.22  |       | P        | 13.3 |
| 3 | <input type="checkbox"/> |       |            | 65.56  |       | P        | 14.7 |
| 4 | <input type="checkbox"/> |       |            | 73.33  |       | P        | 15.7 |
| 5 | <input type="checkbox"/> |       |            | 72.22  |       | P        | 16.2 |
| 6 | <input type="checkbox"/> |       |            | 134.45 |       | P        | 18.9 |
| 7 | <input type="checkbox"/> |       |            | 174.45 |       | P        | 17.3 |
| 8 | <input type="checkbox"/> |       |            | 108.89 |       | P        | 18.7 |

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      | 991.73      | 0.0001 | P   | 11.7 |
| 2 | <input type="checkbox"/> | 1.000    | 0.857      | 10348.63    | 0.0012 | P   | 3.7  |
| 3 | <input type="checkbox"/> | 50.000   | 45.629     | 498613.85   | 0.0600 | P   | 1.0  |
| 4 | <input type="checkbox"/> | 125.000  | 116.798    | 1276337.70  | 0.1534 | P   | 1.8  |
| 5 | <input type="checkbox"/> | 250.000  | 245.123    | 2685460.33  | 0.3218 | A   | 1.1  |
| 6 | <input type="checkbox"/> | 500.000  | 498.824    | 5388496.17  | 0.6547 | A   | 0.3  |
| 7 | <input type="checkbox"/> | 1000.000 | 1003.051   | 10745615.78 | 1.3164 | A   | 0.8  |
| 8 | <input type="checkbox"/> |          |            | 5245.62     | 0.0007 | P   | 2.3  |

$$y = 0.0013 * x + 1.2046E-004$$

R = 1.0000

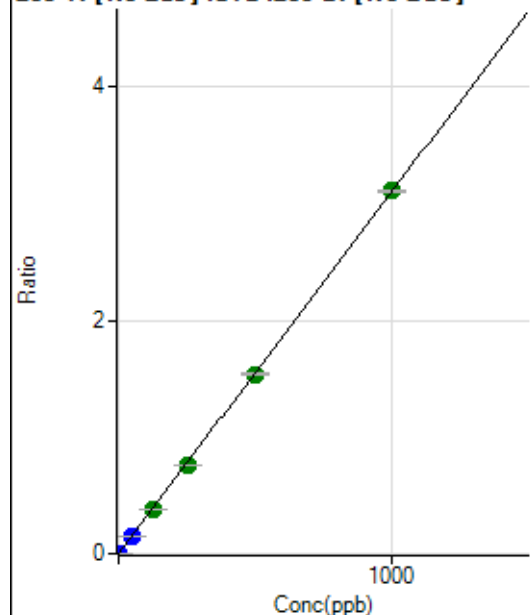
DL = 0.03234

BEC = 0.0918

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      | 2052.98     | 0.0002 | P   | 2.2 |
| 2 | <input type="checkbox"/> | 1.000    | 0.900      | 25271.40    | 0.0030 | P   | 2.0 |
| 3 | <input type="checkbox"/> | 50.000   | 45.835     | 1183343.73  | 0.1424 | P   | 0.5 |
| 4 | <input type="checkbox"/> | 125.000  | 123.878    | 3198640.57  | 0.3844 | A   | 1.3 |
| 5 | <input type="checkbox"/> | 250.000  | 245.592    | 6357746.67  | 0.7618 | A   | 0.7 |
| 6 | <input type="checkbox"/> | 500.000  | 496.051    | 12662530.58 | 1.5385 | A   | 0.5 |
| 7 | <input type="checkbox"/> | 1000.000 | 1003.425   | 25402031.82 | 3.1118 | A   | 0.4 |
| 8 | <input type="checkbox"/> |          |            | 11924.95    | 0.0017 | P   | 6.7 |

$$y = 0.0031 * x + 2.4904E-004$$

R = 1.0000

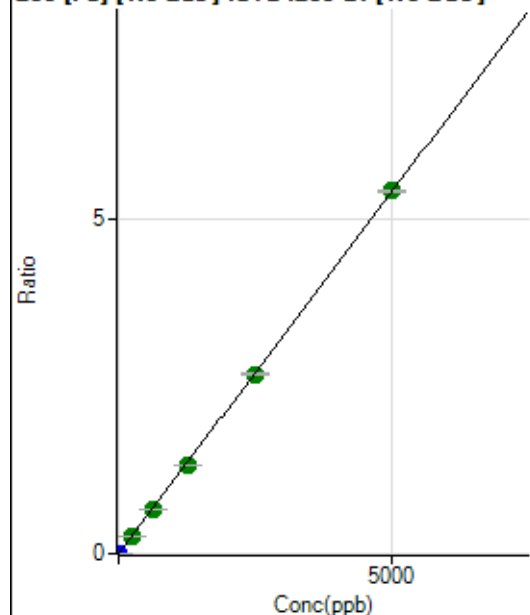
DL = 0.005366

BEC = 0.08031

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      | 575.95      | 0.0001 | P   | 13.7 |
| 2 | <input type="checkbox"/> | 1.000    | 0.875      | 8439.79     | 0.0010 | P   | 2.4  |
| 3 | <input type="checkbox"/> | 250.000  | 246.037    | 2208026.08  | 0.2657 | A   | 1.2  |
| 4 | <input type="checkbox"/> | 625.000  | 620.516    | 5575168.64  | 0.6699 | A   | 1.3  |
| 5 | <input type="checkbox"/> | 1250.000 | 1222.631   | 11015810.89 | 1.3200 | A   | 0.8  |
| 6 | <input type="checkbox"/> | 2500.000 | 2480.151   | 22037100.73 | 2.6775 | A   | 0.9  |
| 7 | <input type="checkbox"/> | 5000.000 | 5017.525   | 44217456.08 | 5.4167 | A   | 0.5  |
| 8 | <input type="checkbox"/> |          |            | 12259.38    | 0.0017 | P   | 5.4  |

$$y = 0.0011 * x + 6.9883E-005$$

$$R = 1.0000$$

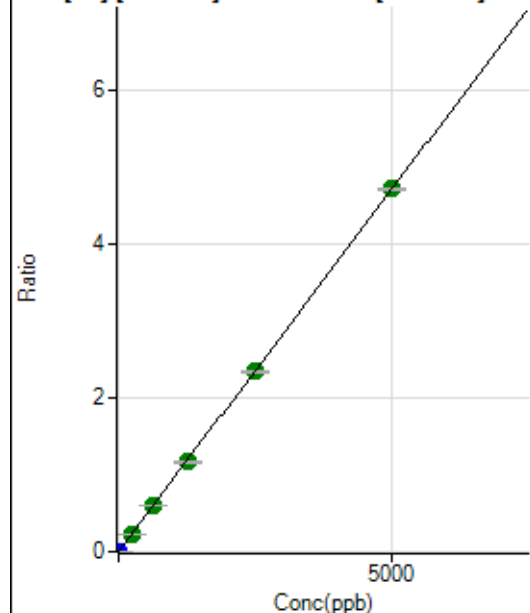
$$DL = 0.02666$$

$$BEC = 0.06473$$

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      | 462.98      | 0.0001 | P   | 7.3 |
| 2 | <input type="checkbox"/> | 1.000    | 0.849      | 7126.05     | 0.0009 | P   | 3.1 |
| 3 | <input type="checkbox"/> | 250.000  | 247.252    | 1937816.41  | 0.2332 | A   | 0.6 |
| 4 | <input type="checkbox"/> | 625.000  | 625.480    | 4907764.81  | 0.5898 | A   | 0.4 |
| 5 | <input type="checkbox"/> | 1250.000 | 1237.166   | 9734884.71  | 1.1665 | A   | 0.5 |
| 6 | <input type="checkbox"/> | 2500.000 | 2487.545   | 19302741.63 | 2.3453 | A   | 1.3 |
| 7 | <input type="checkbox"/> | 5000.000 | 5009.514   | 38555182.81 | 4.7231 | A   | 0.4 |
| 8 | <input type="checkbox"/> |          |            | 10020.51    | 0.0014 | P   | 2.3 |

$$y = 9.4281E-004 * x + 5.6161E-005$$

$$R = 1.0000$$

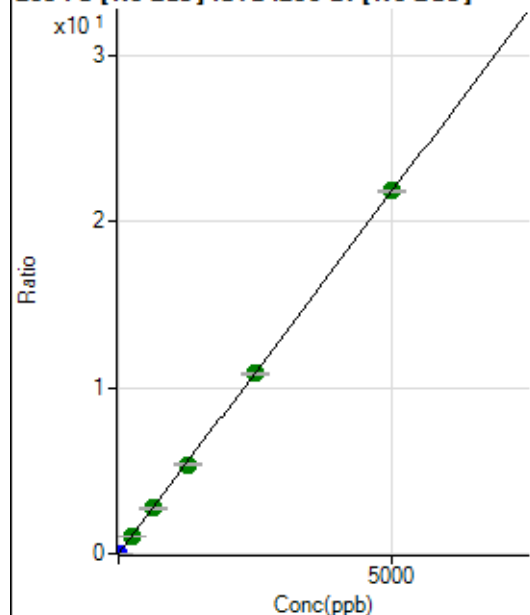
$$DL = 0.01313$$

$$BEC = 0.05957$$

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      | 2281.60      | 0.0003  | P   | 1.7 |
| 2 | <input type="checkbox"/> | 1.000    | 0.870      | 33845.02     | 0.0041  | P   | 1.5 |
| 3 | <input type="checkbox"/> | 250.000  | 247.333    | 8963633.68   | 1.0785  | A   | 0.6 |
| 4 | <input type="checkbox"/> | 625.000  | 624.323    | 22652028.05  | 2.7220  | A   | 0.6 |
| 5 | <input type="checkbox"/> | 1250.000 | 1232.739   | 44852754.71  | 5.3744  | A   | 0.5 |
| 6 | <input type="checkbox"/> | 2500.000 | 2486.456   | 89217629.08  | 10.8400 | A   | 0.9 |
| 7 | <input type="checkbox"/> | 5000.000 | 5011.305   | 178340132.69 | 21.8471 | A   | 0.5 |
| 8 | <input type="checkbox"/> |          |            | 48017.41     | 0.0067  | P   | 3.1 |

$$y = 0.0044 * x + 2.7675E-004$$

$$R = 1.0000$$

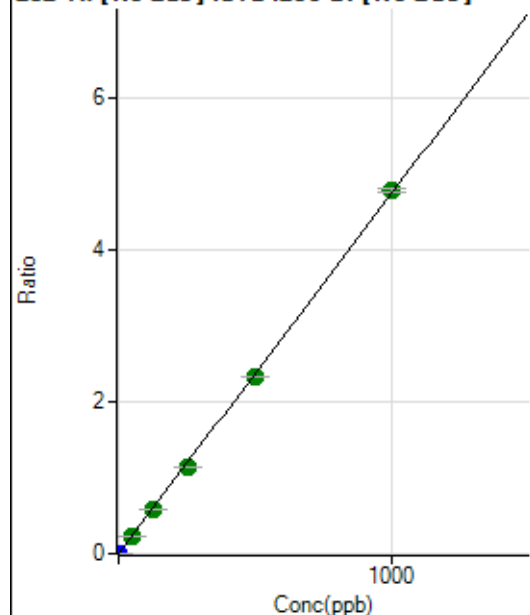
$$DL = 0.003153$$

$$BEC = 0.06348$$

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      | 96.30       | 0.0000 | P   | 26.2 |
| 2 | <input type="checkbox"/> | 1.000    | 0.782      | 30884.30    | 0.0037 | P   | 1.9  |
| 3 | <input type="checkbox"/> | 50.000   | 46.694     | 1837389.59  | 0.2211 | A   | 1.4  |
| 4 | <input type="checkbox"/> | 125.000  | 121.673    | 4793509.08  | 0.5760 | A   | 0.2  |
| 5 | <input type="checkbox"/> | 250.000  | 239.190    | 9450199.29  | 1.1324 | A   | 1.1  |
| 6 | <input type="checkbox"/> | 500.000  | 491.899    | 19166268.02 | 2.3287 | A   | 0.5  |
| 7 | <input type="checkbox"/> | 1000.000 | 1007.334   | 38928228.19 | 4.7688 | A   | 1.2  |
| 8 | <input type="checkbox"/> |          |            | 3871.01     | 0.0005 | P   | 12.3 |

$$y = 0.0047 * x + 1.1721E-005$$

$$R = 0.9999$$

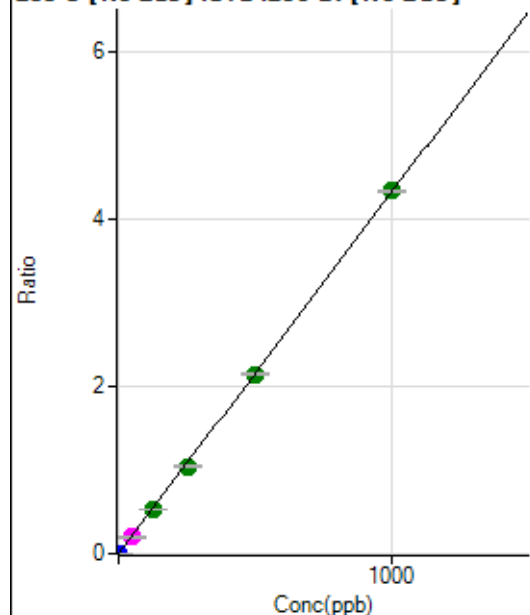
$$DL = 0.001949$$

$$BEC = 0.002476$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 86.11       | 0.0000 | P   | 18.5 |
| 2 | <input type="checkbox"/> | 1.000    | 0.807      | 29091.22    | 0.0035 | P   | 0.8  |
| 3 | <input type="checkbox"/> | 50.000   | 45.463     | 1633004.81  | 0.1965 | M   | 7.2  |
| 4 | <input type="checkbox"/> | 125.000  | 122.164    | 4394099.06  | 0.5281 | A   | 1.8  |
| 5 | <input type="checkbox"/> | 250.000  | 241.664    | 8718438.65  | 1.0447 | A   | 0.9  |
| 6 | <input type="checkbox"/> | 500.000  | 496.964    | 17680299.53 | 2.1483 | A   | 1.6  |
| 7 | <input type="checkbox"/> | 1000.000 | 1004.183   | 35434448.71 | 4.3408 | A   | 0.9  |
| 8 | <input type="checkbox"/> |          |            | 4122.98     | 0.0006 | P   | 10.5 |

$$y = 0.0043 * x + 1.0420E-005$$

$$R = 1.0000$$

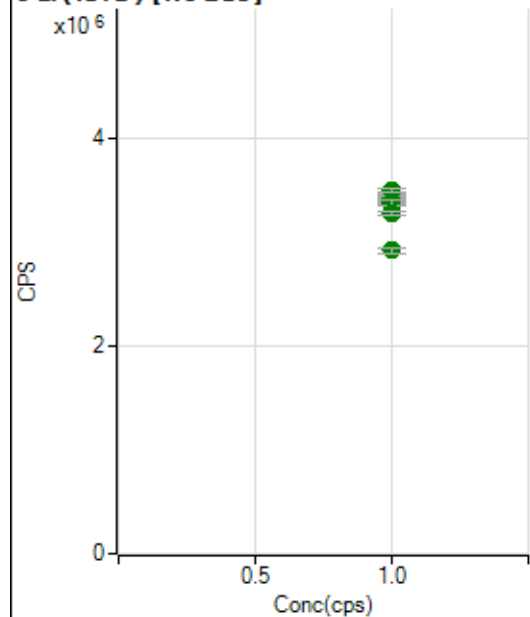
$$DL = 0.001339$$

$$BEC = 0.00241$$

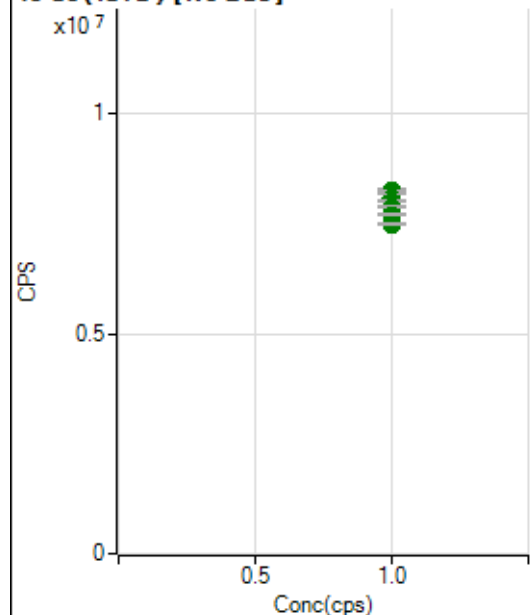
Weight: &lt;None&gt;

Min Conc: 0

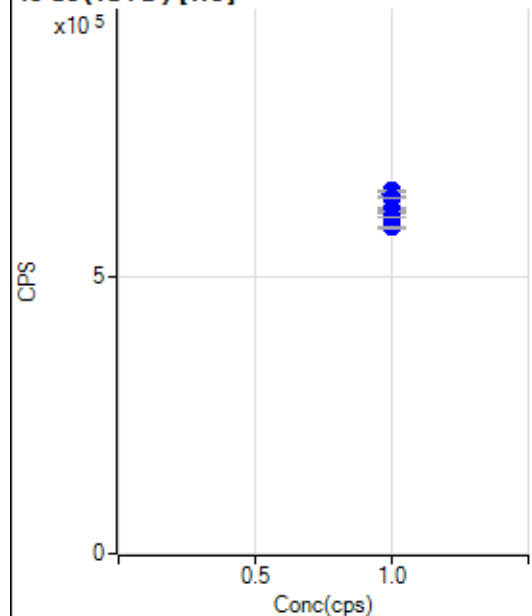
6 Li (ISTD) [No Gas]



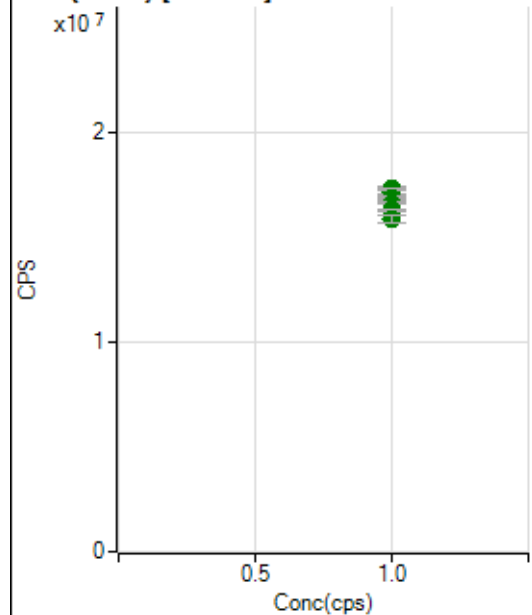
|   | R <sub>j</sub><br>ct     | Conc. | Calc Conc. | CPS        | Ratio | Det | RSD |
|---|--------------------------|-------|------------|------------|-------|-----|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 3368938.67 |       | A   | 0.9 |
| 2 | <input type="checkbox"/> | 1.000 |            | 3389313.18 |       | A   | 2.0 |
| 3 | <input type="checkbox"/> | 1.000 |            | 3439276.06 |       | A   | 1.1 |
| 4 | <input type="checkbox"/> | 1.000 |            | 3413105.37 |       | A   | 1.1 |
| 5 | <input type="checkbox"/> | 1.000 |            | 3486096.30 |       | A   | 0.9 |
| 6 | <input type="checkbox"/> | 1.000 |            | 3365499.43 |       | A   | 1.7 |
| 7 | <input type="checkbox"/> | 1.000 |            | 3269387.80 |       | A   | 0.9 |
| 8 | <input type="checkbox"/> | 1.000 |            | 2911950.83 |       | A   | 1.7 |

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

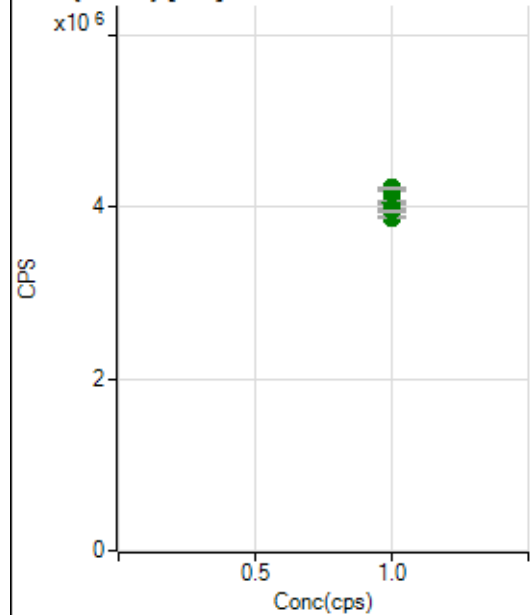
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 8208069.74 |       | A        | 1.4 |
| 2 | <input type="checkbox"/> | 1.000 |            | 8238508.21 |       | A        | 1.4 |
| 3 | <input type="checkbox"/> | 1.000 |            | 8244693.07 |       | A        | 0.4 |
| 4 | <input type="checkbox"/> | 1.000 |            | 8098919.32 |       | A        | 1.5 |
| 5 | <input type="checkbox"/> | 1.000 |            | 8009738.91 |       | A        | 0.4 |
| 6 | <input type="checkbox"/> | 1.000 |            | 7875526.97 |       | A        | 0.6 |
| 7 | <input type="checkbox"/> | 1.000 |            | 7705639.82 |       | A        | 0.7 |
| 8 | <input type="checkbox"/> | 1.000 |            | 7487306.41 |       | A        | 0.7 |

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

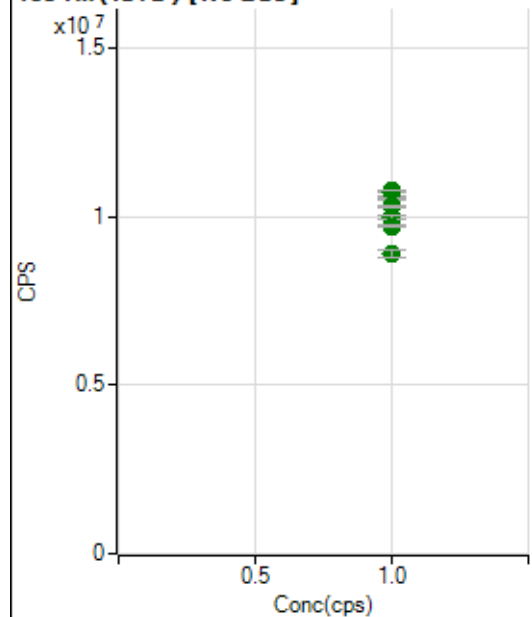
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS       | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-----------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 647454.38 |       | P        | 0.6 |
| 2 | <input type="checkbox"/> | 1.000 |            | 653327.31 |       | P        | 0.4 |
| 3 | <input type="checkbox"/> | 1.000 |            | 640463.56 |       | P        | 0.1 |
| 4 | <input type="checkbox"/> | 1.000 |            | 620162.44 |       | P        | 0.5 |
| 5 | <input type="checkbox"/> | 1.000 |            | 614757.44 |       | P        | 0.4 |
| 6 | <input type="checkbox"/> | 1.000 |            | 587573.08 |       | P        | 0.6 |
| 7 | <input type="checkbox"/> | 1.000 |            | 588374.58 |       | P        | 0.6 |
| 8 | <input type="checkbox"/> | 1.000 |            | 606988.12 |       | P        | 0.1 |

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

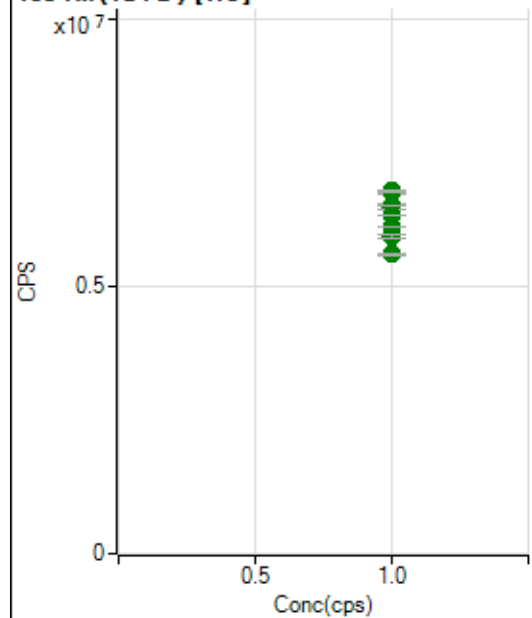
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 17174629.47 |       | A        | 2.4 |
| 2 | <input type="checkbox"/> | 1.000 |            | 17228725.02 |       | A        | 1.5 |
| 3 | <input type="checkbox"/> | 1.000 |            | 17303980.43 |       | A        | 0.7 |
| 4 | <input type="checkbox"/> | 1.000 |            | 16775176.14 |       | A        | 0.3 |
| 5 | <input type="checkbox"/> | 1.000 |            | 16891855.17 |       | A        | 0.5 |
| 6 | <input type="checkbox"/> | 1.000 |            | 16627414.89 |       | A        | 0.8 |
| 7 | <input type="checkbox"/> | 1.000 |            | 16312014.62 |       | A        | 0.6 |
| 8 | <input type="checkbox"/> | 1.000 |            | 15876262.13 |       | A        | 2.6 |

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

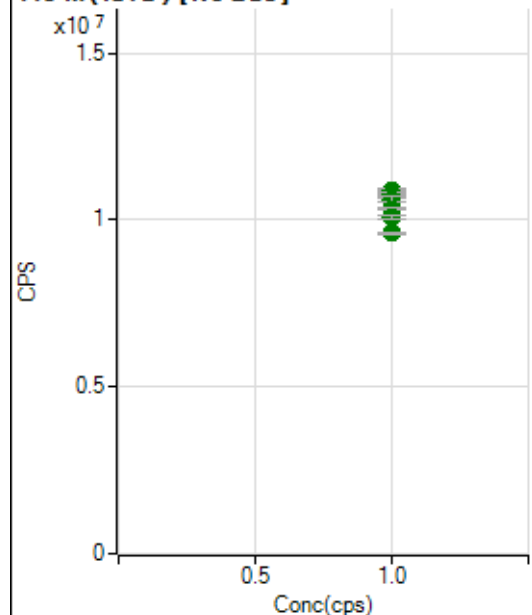
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 4179577.33 |       | A        | 0.4 |
| 2 | <input type="checkbox"/> | 1.000 |            | 4216338.34 |       | A        | 0.8 |
| 3 | <input type="checkbox"/> | 1.000 |            | 4062338.79 |       | A        | 0.7 |
| 4 | <input type="checkbox"/> | 1.000 |            | 4043194.80 |       | A        | 1.2 |
| 5 | <input type="checkbox"/> | 1.000 |            | 3974715.57 |       | A        | 0.4 |
| 6 | <input type="checkbox"/> | 1.000 |            | 3879299.98 |       | A        | 0.8 |
| 7 | <input type="checkbox"/> | 1.000 |            | 3870192.55 |       | A        | 0.4 |
| 8 | <input type="checkbox"/> | 1.000 |            | 3948501.95 |       | A        | 0.7 |

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

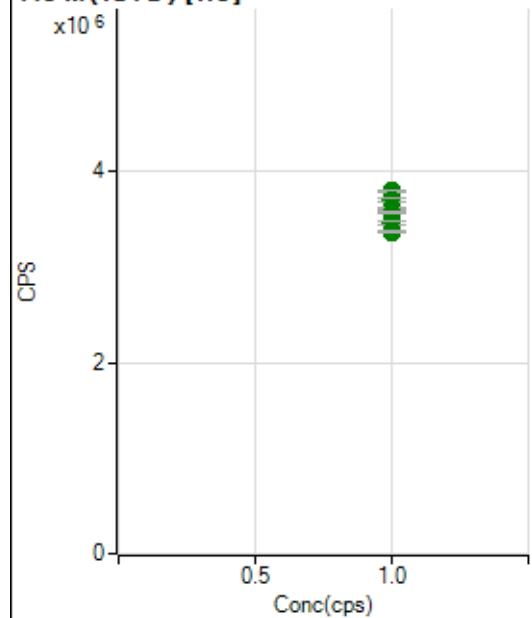
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det. | RSD |
|---|--------------------------|-------|------------|-------------|-------|------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 10720872.06 |       | A    | 1.6 |
| 2 | <input type="checkbox"/> | 1.000 |            | 10777612.76 |       | A    | 0.8 |
| 3 | <input type="checkbox"/> | 1.000 |            | 10717947.97 |       | A    | 1.3 |
| 4 | <input type="checkbox"/> | 1.000 |            | 10516589.77 |       | A    | 0.6 |
| 5 | <input type="checkbox"/> | 1.000 |            | 10314687.83 |       | A    | 0.9 |
| 6 | <input type="checkbox"/> | 1.000 |            | 9985812.70  |       | A    | 1.1 |
| 7 | <input type="checkbox"/> | 1.000 |            | 9733503.95  |       | A    | 0.3 |
| 8 | <input type="checkbox"/> | 1.000 |            | 8902783.27  |       | A    | 2.4 |

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

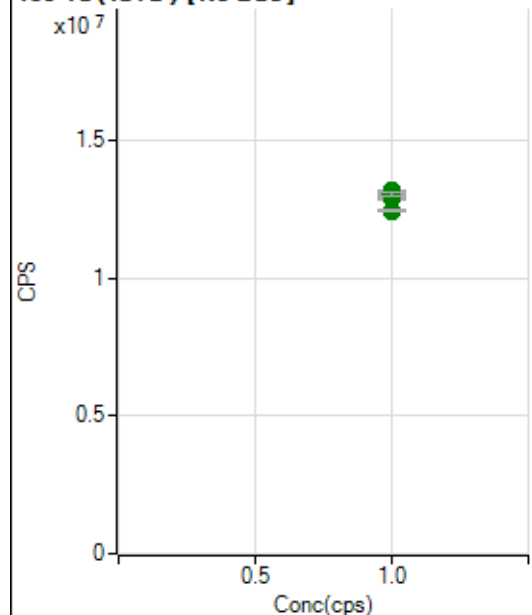
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det. | RSD |
|---|--------------------------|-------|------------|------------|-------|------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 6762854.62 |       | A    | 1.0 |
| 2 | <input type="checkbox"/> | 1.000 |            | 6790587.47 |       | A    | 0.8 |
| 3 | <input type="checkbox"/> | 1.000 |            | 6525003.03 |       | A    | 0.7 |
| 4 | <input type="checkbox"/> | 1.000 |            | 6481836.50 |       | A    | 0.8 |
| 5 | <input type="checkbox"/> | 1.000 |            | 6333645.53 |       | A    | 0.4 |
| 6 | <input type="checkbox"/> | 1.000 |            | 6131100.19 |       | A    | 0.2 |
| 7 | <input type="checkbox"/> | 1.000 |            | 5937116.78 |       | A    | 0.9 |
| 8 | <input type="checkbox"/> | 1.000 |            | 5604393.39 |       | A    | 0.4 |

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

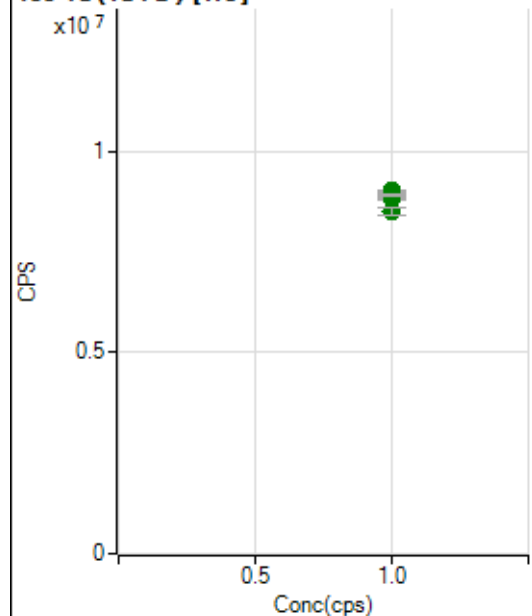
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 10828906.88 |       | A        | 1.2 |
| 2 | <input type="checkbox"/> | 1.000 |            | 10868870.89 |       | A        | 1.5 |
| 3 | <input type="checkbox"/> | 1.000 |            | 10771206.98 |       | A        | 0.9 |
| 4 | <input type="checkbox"/> | 1.000 |            | 10600698.85 |       | A        | 1.0 |
| 5 | <input type="checkbox"/> | 1.000 |            | 10615808.47 |       | A        | 1.7 |
| 6 | <input type="checkbox"/> | 1.000 |            | 10340237.06 |       | A        | 0.5 |
| 7 | <input type="checkbox"/> | 1.000 |            | 10078441.12 |       | A        | 0.9 |
| 8 | <input type="checkbox"/> | 1.000 |            | 9592323.13  |       | A        | 0.7 |

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

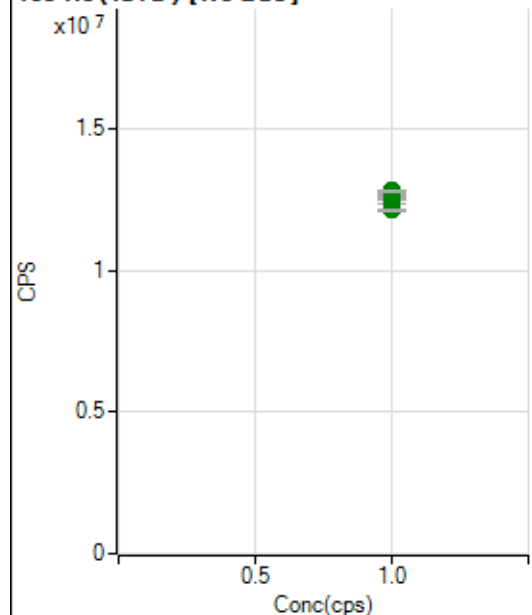
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 3791660.14 |       | A        | 0.6 |
| 2 | <input type="checkbox"/> | 1.000 |            | 3798230.88 |       | A        | 0.4 |
| 3 | <input type="checkbox"/> | 1.000 |            | 3699982.01 |       | A        | 1.0 |
| 4 | <input type="checkbox"/> | 1.000 |            | 3614248.48 |       | A        | 1.1 |
| 5 | <input type="checkbox"/> | 1.000 |            | 3570074.02 |       | A        | 0.8 |
| 6 | <input type="checkbox"/> | 1.000 |            | 3461341.44 |       | A        | 0.7 |
| 7 | <input type="checkbox"/> | 1.000 |            | 3367863.96 |       | A        | 0.7 |
| 8 | <input type="checkbox"/> | 1.000 |            | 3378172.91 |       | A        | 0.6 |

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

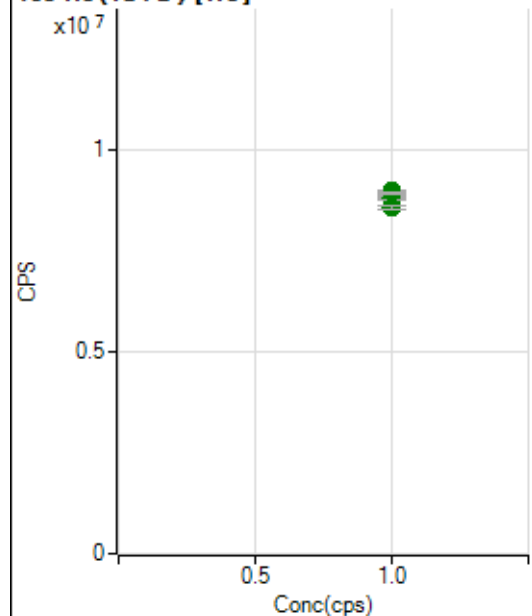
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det. | RSD |
|---|--------------------------|-------|------------|-------------|-------|------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 12932464.53 |       | A    | 1.4 |
| 2 | <input type="checkbox"/> | 1.000 |            | 13123026.05 |       | A    | 1.2 |
| 3 | <input type="checkbox"/> | 1.000 |            | 13125905.22 |       | A    | 0.6 |
| 4 | <input type="checkbox"/> | 1.000 |            | 12983018.42 |       | A    | 0.8 |
| 5 | <input type="checkbox"/> | 1.000 |            | 13191218.00 |       | A    | 0.4 |
| 6 | <input type="checkbox"/> | 1.000 |            | 13119189.11 |       | A    | 0.6 |
| 7 | <input type="checkbox"/> | 1.000 |            | 13055384.95 |       | A    | 0.9 |
| 8 | <input type="checkbox"/> | 1.000 |            | 12471889.81 |       | A    | 0.9 |

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

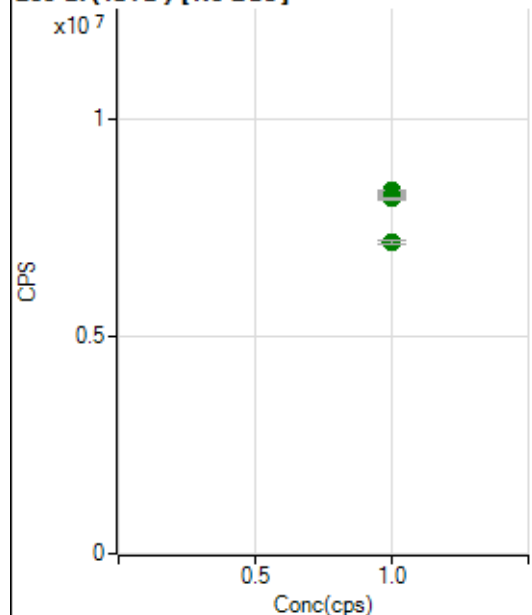
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det. | RSD |
|---|--------------------------|-------|------------|------------|-------|------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 8857849.45 |       | A    | 1.2 |
| 2 | <input type="checkbox"/> | 1.000 |            | 9012552.99 |       | A    | 0.6 |
| 3 | <input type="checkbox"/> | 1.000 |            | 8891410.08 |       | A    | 1.0 |
| 4 | <input type="checkbox"/> | 1.000 |            | 8897762.92 |       | A    | 0.5 |
| 5 | <input type="checkbox"/> | 1.000 |            | 8958024.59 |       | A    | 1.1 |
| 6 | <input type="checkbox"/> | 1.000 |            | 8948392.02 |       | A    | 0.4 |
| 7 | <input type="checkbox"/> | 1.000 |            | 8913222.78 |       | A    | 0.9 |
| 8 | <input type="checkbox"/> | 1.000 |            | 8503677.51 |       | A    | 1.7 |

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

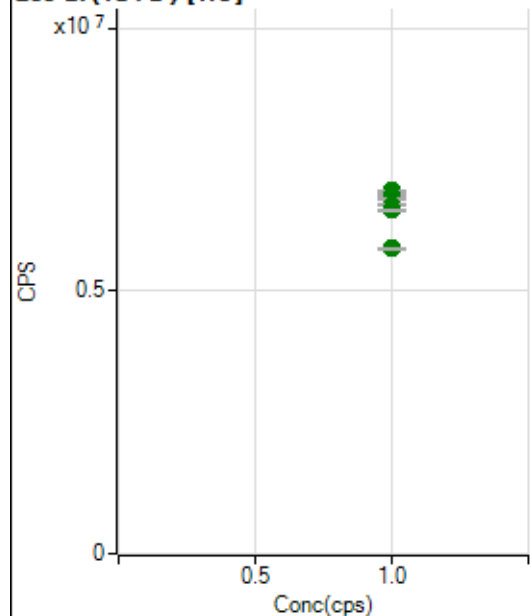
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det. | RSD |
|---|--------------------------|-------|------------|-------------|-------|------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 12515494.67 |       | A    | 1.8 |
| 2 | <input type="checkbox"/> | 1.000 |            | 12528031.75 |       | A    | 0.8 |
| 3 | <input type="checkbox"/> | 1.000 |            | 12684424.67 |       | A    | 0.9 |
| 4 | <input type="checkbox"/> | 1.000 |            | 12666136.90 |       | A    | 0.7 |
| 5 | <input type="checkbox"/> | 1.000 |            | 12813417.45 |       | A    | 0.4 |
| 6 | <input type="checkbox"/> | 1.000 |            | 12711144.67 |       | A    | 0.3 |
| 7 | <input type="checkbox"/> | 1.000 |            | 12825726.06 |       | A    | 0.2 |
| 8 | <input type="checkbox"/> | 1.000 |            | 12159200.79 |       | A    | 0.6 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det. | RSD |
|---|--------------------------|-------|------------|------------|-------|------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 8805809.73 |       | A    | 0.4 |
| 2 | <input type="checkbox"/> | 1.000 |            | 8916972.23 |       | A    | 0.9 |
| 3 | <input type="checkbox"/> | 1.000 |            | 8977217.78 |       | A    | 0.5 |
| 4 | <input type="checkbox"/> | 1.000 |            | 8891732.78 |       | A    | 0.8 |
| 5 | <input type="checkbox"/> | 1.000 |            | 8896466.88 |       | A    | 0.5 |
| 6 | <input type="checkbox"/> | 1.000 |            | 8816484.87 |       | A    | 1.5 |
| 7 | <input type="checkbox"/> | 1.000 |            | 8922348.13 |       | A    | 0.9 |
| 8 | <input type="checkbox"/> | 1.000 |            | 8562927.86 |       | A    | 0.8 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det. | RSD |
|---|--------------------------|-------|------------|------------|-------|------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 8245617.17 |       | A    | 2.1 |
| 2 | <input type="checkbox"/> | 1.000 |            | 8314525.64 |       | A    | 0.7 |
| 3 | <input type="checkbox"/> | 1.000 |            | 8311022.44 |       | A    | 0.7 |
| 4 | <input type="checkbox"/> | 1.000 |            | 8321837.65 |       | A    | 1.2 |
| 5 | <input type="checkbox"/> | 1.000 |            | 8345729.81 |       | A    | 0.5 |
| 6 | <input type="checkbox"/> | 1.000 |            | 8230493.76 |       | A    | 0.5 |
| 7 | <input type="checkbox"/> | 1.000 |            | 8163173.91 |       | A    | 0.3 |
| 8 | <input type="checkbox"/> | 1.000 |            | 7153417.25 |       | A    | 1.1 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det. | RSD |
|---|--------------------------|-------|------------|------------|-------|------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 6883971.22 |       | A    | 0.1 |
| 2 | <input type="checkbox"/> | 1.000 |            | 6902965.66 |       | A    | 0.1 |
| 3 | <input type="checkbox"/> | 1.000 |            | 6907024.06 |       | A    | 0.1 |
| 4 | <input type="checkbox"/> | 1.000 |            | 6824878.99 |       | A    | 0.9 |
| 5 | <input type="checkbox"/> | 1.000 |            | 6764690.73 |       | A    | 0.5 |
| 6 | <input type="checkbox"/> | 1.000 |            | 6635809.00 |       | A    | 0.5 |
| 7 | <input type="checkbox"/> | 1.000 |            | 6543757.47 |       | A    | 0.8 |
| 8 | <input type="checkbox"/> | 1.000 |            | 5806055.33 |       | A    | 0.8 |

# US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7050422 MS.b

Acq. Date-Time 2022-05-04 14:44:58

Report Comment ---

Instrument Name G8403A JP14410463

[No Gas]

## Sensitivity

| Mass | Conc. [ug/l] | Count  | CPS        | Resp (Required) [cps/ug/l] | Resp (Flag) | RSD%   | RSD% (Required) |
|------|--------------|--------|------------|----------------------------|-------------|--------|-----------------|
| 9    |              | 12172  | 121721.60  |                            |             | 1.115  | 5.000           |
| 24   |              | 120004 | 1200042.46 |                            |             | 0.414  | 5.000           |
| 25   |              | 15648  | 156481.85  |                            |             | 1.046  | 5.000           |
| 26   |              | 17932  | 179324.26  |                            |             | 0.913  | 5.000           |
| 59   |              | 29885  | 298848.20  |                            |             | 0.825  | 5.000           |
| 113  |              | 12877  | 128772.88  |                            |             | 1.081  | 5.000           |
| 115  |              | 40749  | 407490.27  |                            |             | 1.884  | 5.000           |
| 206  |              | 15961  | 159614.53  |                            |             | 1.075  | 5.000           |
| 207  |              | 13605  | 136046.59  |                            |             | 0.554  | 5.000           |
| 208  |              | 32923  | 329229.26  |                            |             | 0.734  | 5.000           |
| 220  |              | 0      | 2.40       |                            |             | 40.074 |                 |

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

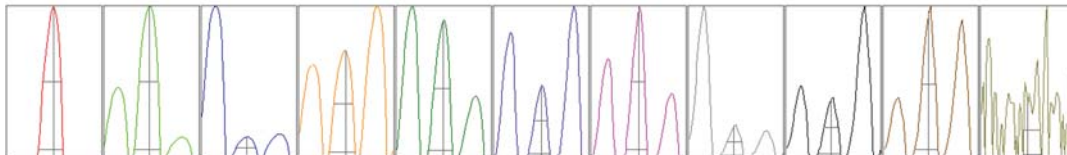
| Mass | Rep#1 Count | Rep#2 Count | Rep#3 Count | Rep#4 Count | Rep#5 Count |
|------|-------------|-------------|-------------|-------------|-------------|
| 9    | 12008       | 12384       | 12131       | 12173       | 12165       |
| 24   | 119882      | 120847      | 119980      | 119754      | 119558      |
| 25   | 15511       | 15924       | 15541       | 15629       | 15636       |
| 26   | 17718       | 18167       | 17982       | 17871       | 17924       |
| 59   | 29671       | 30274       | 29901       | 29672       | 29907       |
| 113  | 12797       | 13118       | 12873       | 12779       | 12819       |
| 115  | 40663       | 41995       | 40836       | 40194       | 40056       |
| 206  | 15946       | 16252       | 15830       | 15836       | 15943       |
| 207  | 13634       | 13719       | 13545       | 13533       | 13591       |
| 208  | 32789       | 33340       | 32897       | 32732       | 32856       |

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

Integration Time [sec] 0.1

## Resolution/Axis



| Mass | Peak Height | Axis   | Axis (Required) | Axis (Flag) |
|------|-------------|--------|-----------------|-------------|
| 9    | 23014.40    | 9.00   | 8.90 - 9.10     |             |
| 24   | 207044.52   | 23.95  | 23.90 - 24.10   |             |
| 25   | 26908.42    | 24.95  | 24.90 - 25.10   |             |
| 26   | 31167.58    | 26.00  | 25.90 - 26.10   |             |
| 59   | 61199.27    | 59.00  | 58.90 - 59.10   |             |
| 113  | 31203.02    | 113.05 | 112.90 - 113.10 |             |
| 115  | 100008.20   | 115.05 | 114.90 - 115.10 |             |
| 206  | 35129.51    | 205.95 | 205.90 - 206.10 |             |
| 207  | 30078.58    | 206.95 | 206.90 - 207.10 |             |
| 208  | 75052.18    | 207.95 | 207.90 - 208.10 |             |
| 220  | 0.25        | 220.00 | -               |             |

| Mass | W-50% | W-5%  | W-5% (Required) | W-5% (Flag) |
|------|-------|-------|-----------------|-------------|
| 9    | 0.56  | 0.773 | 0.900           |             |
| 24   | 0.61  | 0.816 | 0.900           |             |
| 25   | 0.61  | 0.788 | 0.900           |             |
| 26   | 0.60  | 0.818 | 0.900           |             |
| 59   | 0.50  | 0.759 | 0.900           |             |
| 113  | 0.42  | 0.677 | 0.900           |             |
| 115  | 0.42  | 0.676 | 0.900           |             |
| 206  | 0.46  | 0.737 | 0.900           |             |
| 207  | 0.45  | 0.726 | 0.900           |             |
| 208  | 0.44  | 0.746 | 0.900           |             |
| 220  | 0.51  | 0.546 |                 |             |

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

## Tune Parameters

### Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.73 L/min Dilution Gas 0.40 L/min

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

## Lens Parameters

|            |          |               |       |            |        |
|------------|----------|---------------|-------|------------|--------|
| Extract 1  | 0.0 V    | Omega Lens    | 8.0 V | Deflect    | 14.0 V |
| Extract 2  | -140.0 V | Cell Entrance | -30 V | Plate Bias | -35 V  |
| Omega Bias | -65 V    | Cell Exit     | -50 V |            |        |

## Cell Parameters

|         |            |              |        |                       |       |
|---------|------------|--------------|--------|-----------------------|-------|
| Use Gas | No         | 3rd Gas Flow | ---    | Energy Discrimination | 5.0 V |
| He Flow | 0.0 mL/min | OctP Bias    | -8.0 V |                       |       |
| H2 Flow | ---        | OctP RF      | 200 V  |                       |       |

## QP Parameters

|             |     |             |        |         |        |
|-------------|-----|-------------|--------|---------|--------|
| Mass Gain   | 123 | Axis Gain   | 1.0001 | QP Bias | -3.0 V |
| Mass Offset | 125 | Axis Offset | -0.01  |         |        |

## Hardware Settings

### Torch

|         |         |         |        |
|---------|---------|---------|--------|
| Torch H | -0.8 mm | Torch V | 0.9 mm |
|---------|---------|---------|--------|

### EM

|               |        |           |        |          |        |
|---------------|--------|-----------|--------|----------|--------|
| Discriminator | 3.1 mV | Analog HV | 2167 V | Pulse HV | 1420 V |
|---------------|--------|-----------|--------|----------|--------|

[He]

## Sensitivity

| Mass | Conc. [ug/l] | Count | CPS       | Resp (Required) [cps/ug/l] | Resp (Flag) | RSD%  | RSD% (Required) |
|------|--------------|-------|-----------|----------------------------|-------------|-------|-----------------|
| 59   |              | 10049 | 100493.90 |                            |             | 0.837 |                 |
| 89   |              | 49974 | 499736.40 |                            |             | 0.842 |                 |
| 205  |              | 56034 | 560344.83 |                            |             | 0.635 |                 |

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

| Mass | Rep#1 Count | Rep#2 Count | Rep#3 Count | Rep#4 Count | Rep#5 Count |
|------|-------------|-------------|-------------|-------------|-------------|
| 59   | 10111       | 10128       | 10059       | 9915        | 10034       |
| 89   | 50363       | 50459       | 49864       | 49502       | 49680       |
| 205  | 56424       | 56413       | 55823       | 55677       | 55837       |

Integration Time [sec] 0.1

## Tune Parameters

### Plasma Parameters

|              |        |                |            |               |            |
|--------------|--------|----------------|------------|---------------|------------|
| Plasma Mode  | ---    | Nebulizer Gas  | 0.73 L/min | Dilution Gas  | 0.40 L/min |
| RF Power     | 1600 W | Option Gas     | ---        | Auxiliary Gas | 0.90 L/min |
| RF Matching  | 1.80 V | Nebulizer Pump | 0.10 rps   | Plasma Gas    | 15.0 L/min |
| Sample Depth | 9.0 mm | S/C Temp       | 2 °C       |               |            |

### Lens Parameters

|           |       |            |       |         |       |
|-----------|-------|------------|-------|---------|-------|
| Extract 1 | 0.0 V | Omega Lens | 9.3 V | Deflect | 3.4 V |
|-----------|-------|------------|-------|---------|-------|

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|            |          |               |       |            |       |
|------------|----------|---------------|-------|------------|-------|
| Extract 2  | -165.0 V | Cell Entrance | -40 V | Plate Bias | -60 V |
| Omega Bias | -70 V    | Cell Exit     | -60 V |            |       |

## Cell Parameters

|         |            |              |         |                       |       |
|---------|------------|--------------|---------|-----------------------|-------|
| Use Gas | Yes        | 3rd Gas Flow | ---     | Energy Discrimination | 5.0 V |
| He Flow | 3.9 mL/min | OctP Bias    | -18.0 V |                       |       |
| H2 Flow | ---        | OctP RF      | 200 V   |                       |       |

## QP Parameters

|             |     |             |        |         |         |
|-------------|-----|-------------|--------|---------|---------|
| Mass Gain   | 123 | Axis Gain   | 1.0001 | QP Bias | -13.0 V |
| Mass Offset | 125 | Axis Offset | -0.01  |         |         |

## Hardware Settings

### Torch

|         |         |         |        |
|---------|---------|---------|--------|
| Torch H | -0.8 mm | Torch V | 0.9 mm |
|---------|---------|---------|--------|

### EM

|               |        |           |        |          |        |
|---------------|--------|-----------|--------|----------|--------|
| Discriminator | 3.1 mV | Analog HV | 2167 V | Pulse HV | 1420 V |
|---------------|--------|-----------|--------|----------|--------|