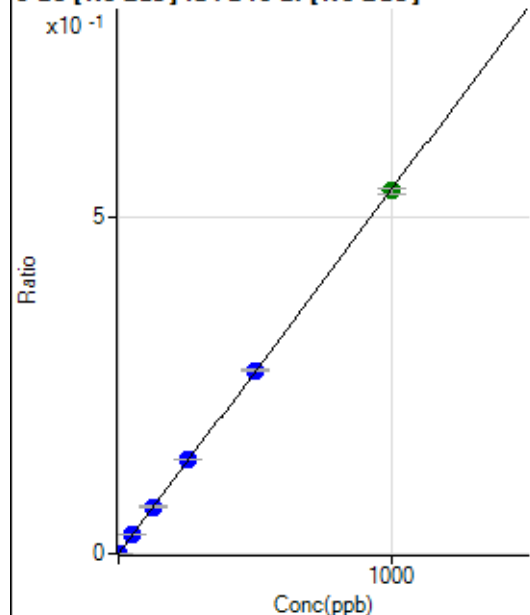


Calibration for 006CALS.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P8121323-MS.b\  
 Analysis File: P8121323-MS.batch.bin  
 DA Date-Time: 2023-12-13 17:24:26  
 Calibration Title:  
 Calibration Method: External Calibration  
 VIS Interpolation Fit:

| Level | Standard Data File | Sample Name | Acq. Date-Time      |
|-------|--------------------|-------------|---------------------|
| 1     | 004CALB.d          | S00         | 2023-12-13 13:21:35 |
| 2     | 006CALS.d          | S02         | 2023-12-13 13:28:26 |
| 3     | 007CALS.d          | S03         | 2023-12-13 13:31:50 |
| 4     | 008CALS.d          | S04         | 2023-12-13 13:35:07 |
| 5     | 009CALS.d          | S05         | 2023-12-13 13:38:14 |
| 6     | 010CALS.d          | S06         | 2023-12-13 13:41:18 |
| 7     | 011CALS.d          | S07         | 2023-12-13 13:44:19 |
| 8     | 012CALS.d          | S08         | 2023-12-13 13:47:23 |

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 67.07      | 0.0000 | P   | 7.3  |
| 2 | <input type="checkbox"/> | 1.000    | 0.921      | 1526.56    | 0.0005 | P   | 4.6  |
| 3 | <input type="checkbox"/> | 50.000   | 50.562     | 82022.83   | 0.0274 | P   | 1.6  |
| 4 | <input type="checkbox"/> | 125.000  | 128.787    | 196318.54  | 0.0699 | P   | 3.7  |
| 5 | <input type="checkbox"/> | 250.000  | 256.872    | 370629.71  | 0.1393 | P   | 0.4  |
| 6 | <input type="checkbox"/> | 500.000  | 502.791    | 704612.30  | 0.2726 | P   | 1.2  |
| 7 | <input type="checkbox"/> | 1000.000 | 996.385    | 1341580.89 | 0.5403 | A   | 1.4  |
| 8 | <input type="checkbox"/> |          |            | 216.64     | 0.0001 | P   | 12.0 |

$$y = 5.4221\text{E-}004 * x + 2.3348\text{E-}005$$

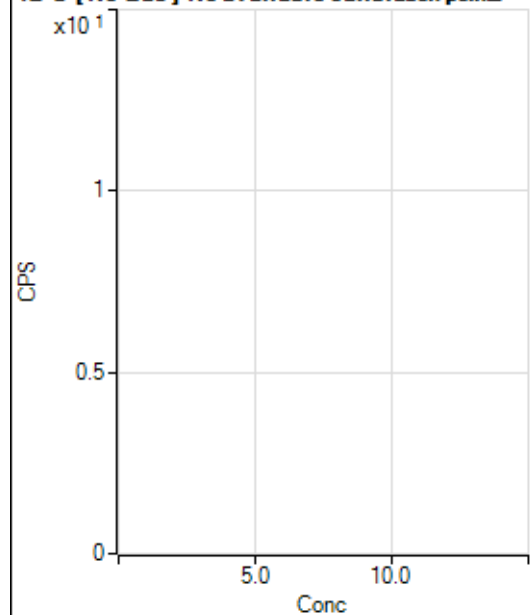
$$R = 1.0000$$

$$DL = 0.009488$$

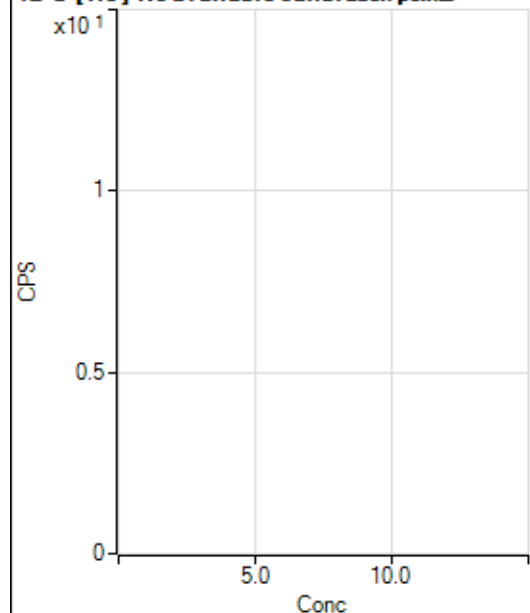
$$BEC = 0.04306$$

Weight: &lt;None&gt;

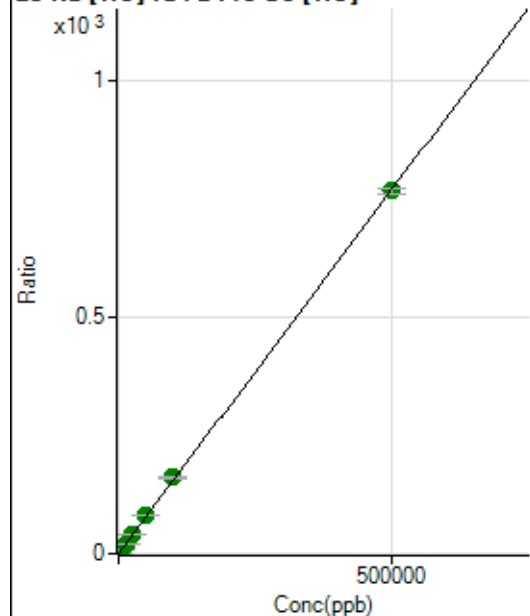
Min Conc: 0

**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"/> |       |            | 1772075.30 |       | A   | 0.1 |
| 2 | <input type="checkbox"/> |       |            | 2026564.62 |       | A   | 0.6 |
| 3 | <input type="checkbox"/> |       |            | 2018338.23 |       | A   | 0.9 |
| 4 | <input type="checkbox"/> |       |            | 1976135.30 |       | A   | 1.9 |
| 5 | <input type="checkbox"/> |       |            | 1933847.09 |       | A   | 0.7 |
| 6 | <input type="checkbox"/> |       |            | 1945947.14 |       | A   | 1.2 |
| 7 | <input type="checkbox"/> |       |            | 2196681.15 |       | A   | 3.3 |
| 8 | <input type="checkbox"/> |       |            | 1942566.26 |       | A   | 2.4 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS      | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|----------|-------|----------|-----|
| 1 | <input type="checkbox"/> |       |            | 22229.15 |       | P        | 0.8 |
| 2 | <input type="checkbox"/> |       |            | 25938.56 |       | P        | 0.7 |
| 3 | <input type="checkbox"/> |       |            | 25036.96 |       | P        | 1.3 |
| 4 | <input type="checkbox"/> |       |            | 24961.30 |       | P        | 1.3 |
| 5 | <input type="checkbox"/> |       |            | 24557.25 |       | P        | 1.0 |
| 6 | <input type="checkbox"/> |       |            | 26141.05 |       | P        | 0.6 |
| 7 | <input type="checkbox"/> |       |            | 30066.31 |       | P        | 1.2 |
| 8 | <input type="checkbox"/> |       |            | 29786.85 |       | P        | 2.6 |

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio    | Det<br>. | RSD |
|---|--------------------------|-----------|------------|-------------|----------|----------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 12842.38    | 0.0840   | P        | 1.3 |
| 2 | <input type="checkbox"/> | 500.000   | 484.830    | 123435.19   | 0.8307   | P        | 8.0 |
| 3 | <input type="checkbox"/> | 5000.000  | 5274.652   | 1234247.79  | 8.2072   | A        | 0.7 |
| 4 | <input type="checkbox"/> | 12500.000 | 13002.054  | 2886078.57  | 20.1078  | A        | 1.5 |
| 5 | <input type="checkbox"/> | 25000.000 | 26293.192  | 5532534.08  | 40.5768  | A        | 1.2 |
| 6 | <input type="checkbox"/> | 50000.000 | 52050.392  | 10727132.76 | 80.2441  | A        | 1.8 |
| 7 | <input type="checkbox"/> | 100000.00 | 104406.64  | 20911203.85 | 160.8753 | A        | 0.5 |
| 8 | <input type="checkbox"/> | 500000.00 | 498833.68  | 104908028.4 | 768.3123 | A        | 1.5 |

$$y = 0.0015 * x + 0.0840$$

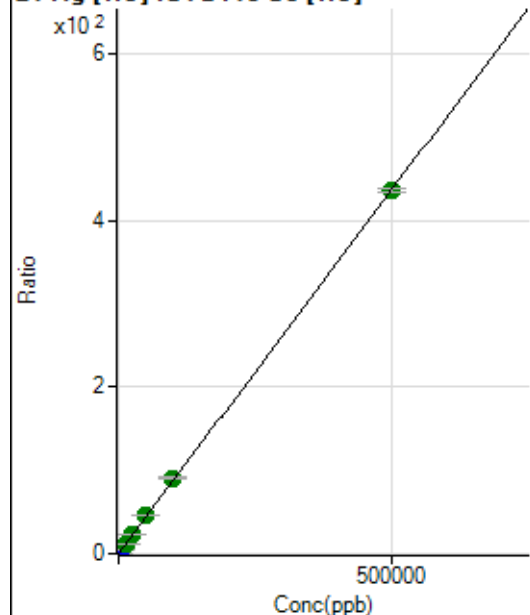
$$R = 1.0000$$

$$DL = 2.173$$

$$BEC = 54.54$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS         | Ratio    | Det. | RSD  |
|---|--------------------------|-----------|------------|-------------|----------|------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 140.00      | 0.0009   | P    | 29.8 |
| 2 | <input type="checkbox"/> | 500.000   | 489.514    | 63572.51    | 0.4279   | P    | 8.8  |
| 3 | <input type="checkbox"/> | 5000.000  | 5171.387   | 678510.00   | 4.5121   | P    | 1.2  |
| 4 | <input type="checkbox"/> | 12500.000 | 13196.029  | 1652293.57  | 11.5122  | A    | 1.2  |
| 5 | <input type="checkbox"/> | 25000.000 | 26457.362  | 3147044.46  | 23.0805  | A    | 1.4  |
| 6 | <input type="checkbox"/> | 50000.000 | 52013.919  | 6066605.47  | 45.3743  | A    | 1.0  |
| 7 | <input type="checkbox"/> | 100000.00 | 103991.26  | 11791320.24 | 90.7159  | A    | 0.9  |
| 8 | <input type="checkbox"/> | 500000.00 | 498908.38  | 59431349.11 | 435.2149 | A    | 1.0  |

$$y = 8.7233\text{E-}004 * x + 9.1574\text{E-}004$$

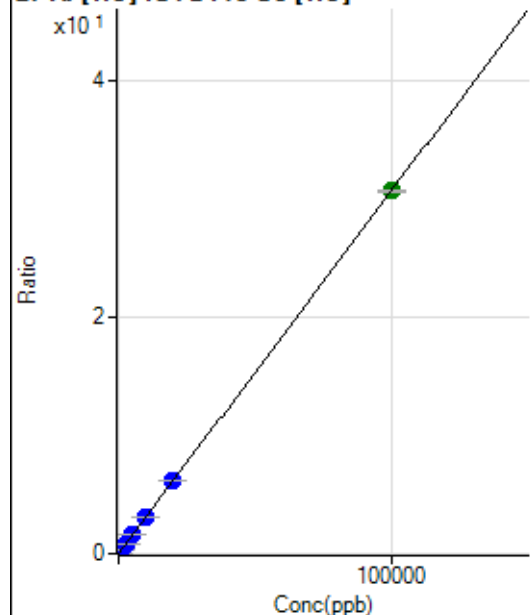
$$R = 1.0000$$

$$DL = 0.9377$$

$$BEC = 1.05$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS        | Ratio   | Det. | RSD  |
|---|--------------------------|-----------|------------|------------|---------|------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 92.22      | 0.0006  | P    | 33.6 |
| 2 | <input type="checkbox"/> | 20.000    | 20.701     | 1031.16    | 0.0070  | P    | 13.3 |
| 3 | <input type="checkbox"/> | 1000.000  | 1026.378   | 47468.35   | 0.3156  | P    | 0.7  |
| 4 | <input type="checkbox"/> | 2500.000  | 2564.571   | 113072.26  | 0.7878  | P    | 0.9  |
| 5 | <input type="checkbox"/> | 5000.000  | 5110.878   | 213981.08  | 1.5694  | P    | 1.2  |
| 6 | <input type="checkbox"/> | 10000.000 | 10123.891  | 415533.22  | 3.1081  | P    | 0.2  |
| 7 | <input type="checkbox"/> | 20000.000 | 20112.498  | 802543.14  | 6.1741  | P    | 0.5  |
| 8 | <input type="checkbox"/> | 100000.00 | 99957.689  | 4190249.76 | 30.6825 | A    | 0.7  |

$$y = 3.0695\text{E-}004 * x + 6.0323\text{E-}004$$

$$R = 1.0000$$

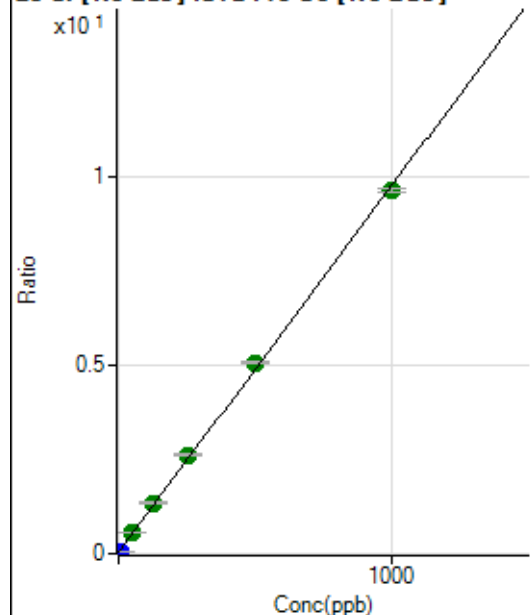
$$DL = 1.982$$

$$BEC = 1.965$$

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      | 168803.71   | 0.0385 | P    | 3.1 |
| 2 | <input type="checkbox"/> | 10.000   | 0.649      | 202267.25   | 0.0448 | P    | 1.3 |
| 3 | <input type="checkbox"/> | 50.000   | 55.053     | 2546275.85  | 0.5733 | A    | 2.0 |
| 4 | <input type="checkbox"/> | 125.000  | 134.851    | 5810100.05  | 1.3485 | A    | 2.8 |
| 5 | <input type="checkbox"/> | 250.000  | 264.536    | 10790348.31 | 2.6083 | A    | 1.4 |
| 6 | <input type="checkbox"/> | 500.000  | 517.145    | 20170317.75 | 5.0623 | A    | 1.3 |
| 7 | <input type="checkbox"/> | 1000.000 | 986.403    | 37914431.94 | 9.6208 | A    | 1.0 |
| 8 | <input type="checkbox"/> |          |            | 310858.93   | 0.0816 | P    | 2.3 |

$$y = 0.0097 * x + 0.0385$$

$$R = 0.9995$$

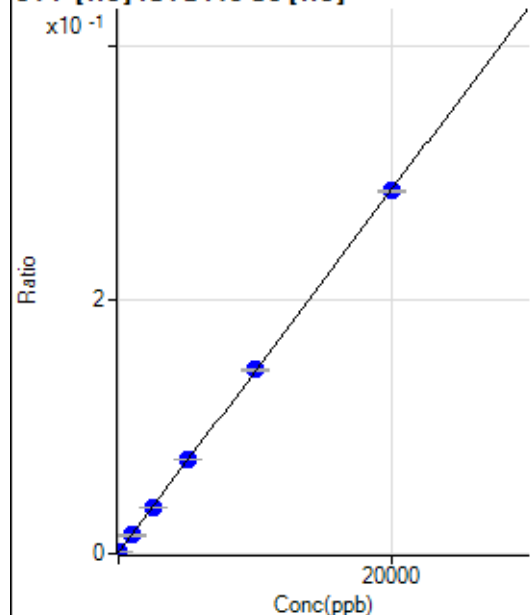
$$DL = 0.3671$$

$$BEC = 3.964$$

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     | -9.059     | 127.78   | 0.0008 | P    | 9.1  |
| 2 | <input type="checkbox"/> | 0.000     | 9.059      | 164.45   | 0.0011 | P    | 16.1 |
| 3 | <input type="checkbox"/> | 1000.000  | 948.986    | 2183.52  | 0.0145 | P    | 1.9  |
| 4 | <input type="checkbox"/> | 2500.000  | 2493.972   | 5251.00  | 0.0366 | P    | 0.3  |
| 5 | <input type="checkbox"/> | 5000.000  | 5105.258   | 10074.68 | 0.0739 | P    | 0.7  |
| 6 | <input type="checkbox"/> | 10000.000 | 10082.252  | 19379.71 | 0.1450 | P    | 0.5  |
| 7 | <input type="checkbox"/> | 20000.000 | 19935.864  | 37134.21 | 0.2857 | P    | 0.6  |
| 8 | <input type="checkbox"/> |           |            | 120.00   | 0.0009 | P    | 13.1 |

$$y = 1.4282E-005 * x + 9.6504E-004$$

$$R = 1.0000$$

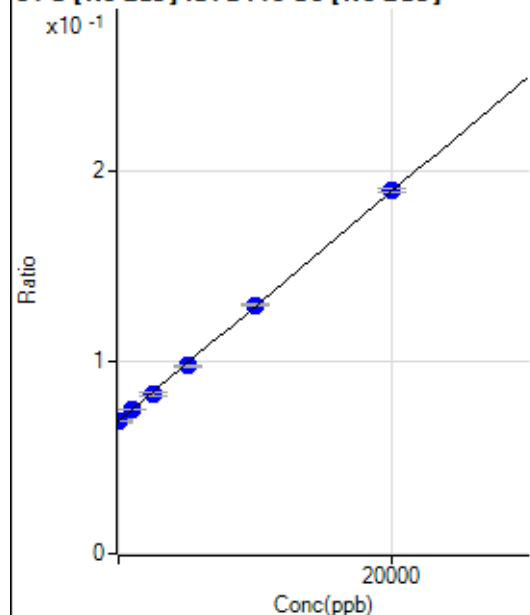
$$DL = 26.5$$

$$BEC = 67.57$$

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<br>. | RSD |
|---|--------------------------|-----------|------------|-----------|--------|----------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 25.650     | 304271.88 | 0.0694 | P        | 3.2 |
| 2 | <input type="checkbox"/> | 0.000     | -25.650    | 311943.06 | 0.0691 | P        | 0.8 |
| 3 | <input type="checkbox"/> | 1000.000  | 1025.789   | 334986.84 | 0.0754 | P        | 0.7 |
| 4 | <input type="checkbox"/> | 2500.000  | 2281.886   | 357398.13 | 0.0829 | P        | 2.2 |
| 5 | <input type="checkbox"/> | 5000.000  | 4787.394   | 405199.51 | 0.0980 | P        | 1.4 |
| 6 | <input type="checkbox"/> | 10000.000 | 10079.408  | 516666.93 | 0.1297 | P        | 0.5 |
| 7 | <input type="checkbox"/> | 20000.000 | 20039.422  | 746192.64 | 0.1894 | P        | 1.1 |
| 8 | <input type="checkbox"/> |           |            | 259354.99 | 0.0681 | P        | 1.1 |

$$y = 5.9924\text{E-}006 * x + 0.0693$$

$$R = 0.9999$$

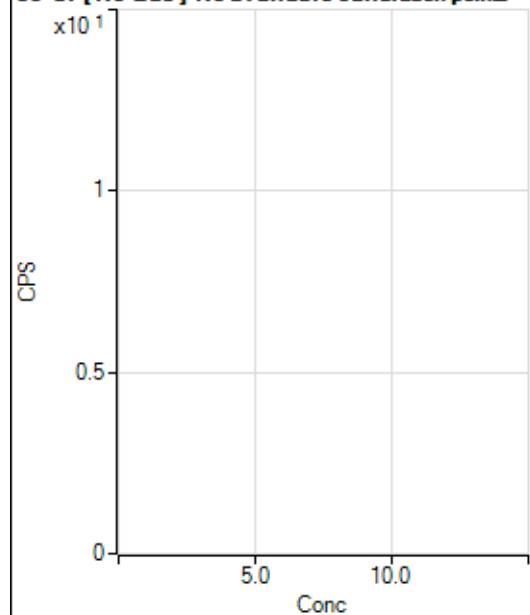
$$DL = 699.2$$

$$BEC = 1.156\text{E}+04$$

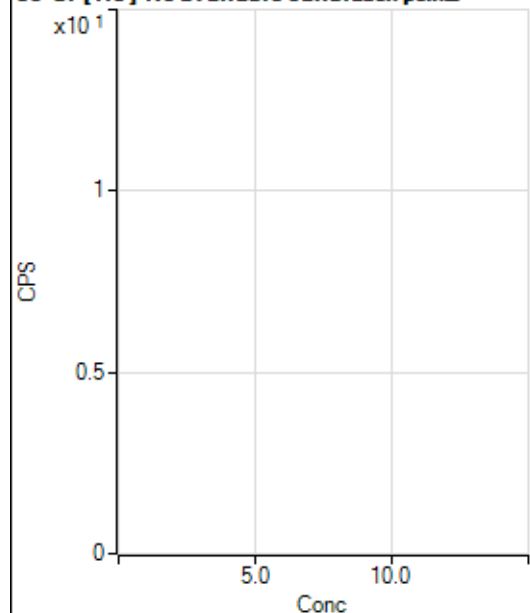
Weight: &lt;None&gt;

Min Conc: 0

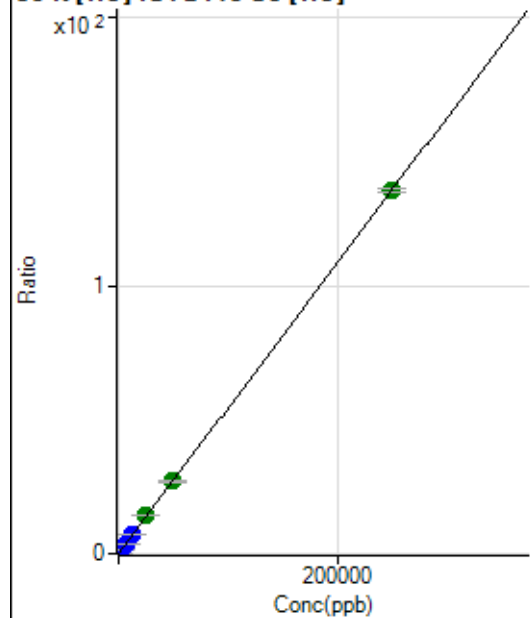
35 Cl [No Gas] No available calibration points



|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS      | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|----------|-------|----------|-----|
| 1 | <input type="checkbox"/> |       |            | 62550.45 |       | P        | 5.3 |
| 2 | <input type="checkbox"/> |       |            | 74473.84 |       | P        | 3.4 |
| 3 | <input type="checkbox"/> |       |            | 76896.30 |       | P        | 5.0 |
| 4 | <input type="checkbox"/> |       |            | 76224.08 |       | P        | 4.6 |
| 5 | <input type="checkbox"/> |       |            | 73245.49 |       | P        | 5.2 |
| 6 | <input type="checkbox"/> |       |            | 76317.64 |       | P        | 3.9 |
| 7 | <input type="checkbox"/> |       |            | 80321.14 |       | P        | 2.3 |
| 8 | <input type="checkbox"/> |       |            | 80066.64 |       | P        | 1.5 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 416.67 |       | P        | 1.4  |
| 2 | <input type="checkbox"/> |       |            | 495.57 |       | P        | 10.3 |
| 3 | <input type="checkbox"/> |       |            | 498.90 |       | P        | 4.8  |
| 4 | <input type="checkbox"/> |       |            | 537.79 |       | P        | 4.4  |
| 5 | <input type="checkbox"/> |       |            | 486.68 |       | P        | 12.1 |
| 6 | <input type="checkbox"/> |       |            | 561.13 |       | P        | 7.4  |
| 7 | <input type="checkbox"/> |       |            | 556.68 |       | P        | 7.3  |
| 8 | <input type="checkbox"/> |       |            | 618.91 |       | P        | 13.1 |

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio    | Det<br>. | RSD |
|---|--------------------------|-----------|------------|-------------|----------|----------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 7811.07     | 0.0511   | P        | 3.7 |
| 2 | <input type="checkbox"/> | 500.000   | 480.691    | 46228.28    | 0.3113   | P        | 9.1 |
| 3 | <input type="checkbox"/> | 2500.000  | 2543.274   | 214674.23   | 1.4276   | P        | 1.5 |
| 4 | <input type="checkbox"/> | 6250.000  | 6295.297   | 496340.47   | 3.4584   | P        | 1.5 |
| 5 | <input type="checkbox"/> | 12500.000 | 12574.899  | 934964.34   | 6.8572   | P        | 1.1 |
| 6 | <input type="checkbox"/> | 25000.000 | 25990.474  | 1887545.89  | 14.1182  | A        | 0.6 |
| 7 | <input type="checkbox"/> | 50000.000 | 49901.196  | 3517207.93  | 27.0598  | A        | 2.2 |
| 8 | <input type="checkbox"/> | 250000.00 | 249915.44  | 18481795.28 | 135.3160 | A        | 1.0 |

$$y = 5.4124\text{E-}004 * x + 0.0511$$

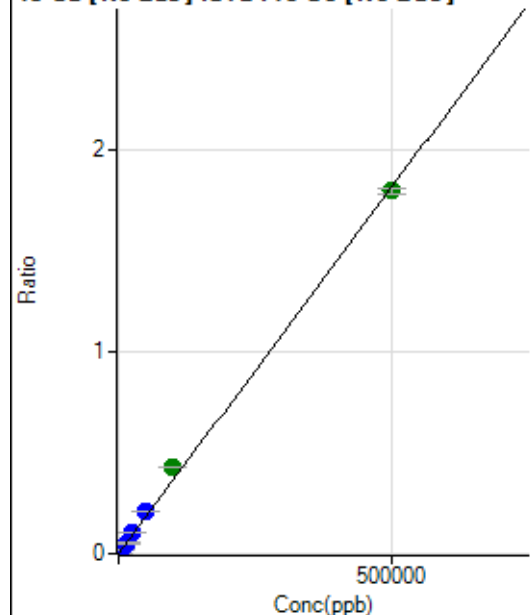
$$R = 1.0000$$

$$DL = 10.56$$

$$BEC = 94.39$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS        | Ratio  | Det. | RSD  |
|---|--------------------------|-----------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 196.67     | 0.0000 | P    | 22.1 |
| 2 | <input type="checkbox"/> | 500.000   | 462.168    | 7755.50    | 0.0017 | P    | 3.9  |
| 3 | <input type="checkbox"/> | 5000.000  | 5888.642   | 94913.06   | 0.0214 | P    | 1.4  |
| 4 | <input type="checkbox"/> | 12500.000 | 14406.875  | 224895.91  | 0.0522 | P    | 4.1  |
| 5 | <input type="checkbox"/> | 25000.000 | 28847.224  | 432285.69  | 0.1045 | P    | 1.9  |
| 6 | <input type="checkbox"/> | 50000.000 | 57133.574  | 824578.22  | 0.2069 | P    | 0.2  |
| 7 | <input type="checkbox"/> | 100000.00 | 118769.93  | 1695165.16 | 0.4301 | A    | 0.1  |
| 8 | <input type="checkbox"/> | 500000.00 | 495283.77  | 6834337.47 | 1.7936 | A    | 1.5  |

$$y = 3.6212\text{E-}006 * x + 4.4687\text{E-}005$$

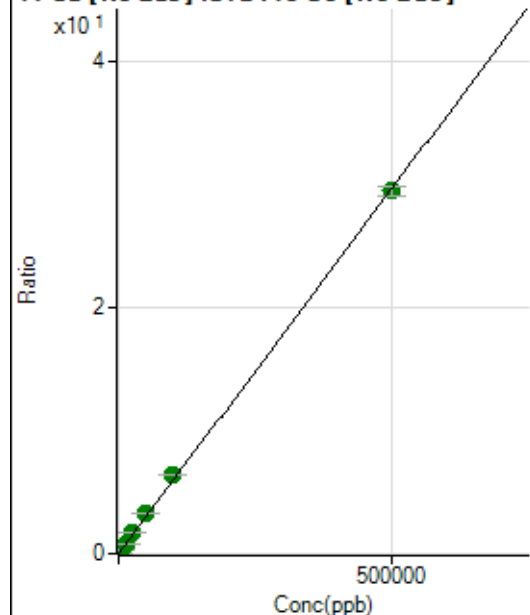
$$R = 0.9992$$

$$DL = 8.169$$

$$BEC = 12.34$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS         | Ratio   | Det. | RSD |
|---|--------------------------|-----------|------------|-------------|---------|------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 22955.14    | 0.0052  | P    | 5.4 |
| 2 | <input type="checkbox"/> | 500.000   | 459.333    | 146434.62   | 0.0324  | P    | 0.6 |
| 3 | <input type="checkbox"/> | 5000.000  | 5722.834   | 1528633.21  | 0.3442  | A    | 1.2 |
| 4 | <input type="checkbox"/> | 12500.000 | 13902.414  | 3568772.76  | 0.8286  | A    | 4.0 |
| 5 | <input type="checkbox"/> | 25000.000 | 27816.149  | 6835864.41  | 1.6525  | A    | 1.2 |
| 6 | <input type="checkbox"/> | 50000.000 | 54932.858  | 12983319.39 | 3.2584  | A    | 0.6 |
| 7 | <input type="checkbox"/> | 100000.00 | 108701.79  | 25389416.84 | 6.4427  | A    | 0.8 |
| 8 | <input type="checkbox"/> | 500000.00 | 497583.29  | 112271321.6 | 29.4726 | A    | 2.3 |

$$y = 5.9221\text{E-}005 * x + 0.0052$$

$$R = 0.9998$$

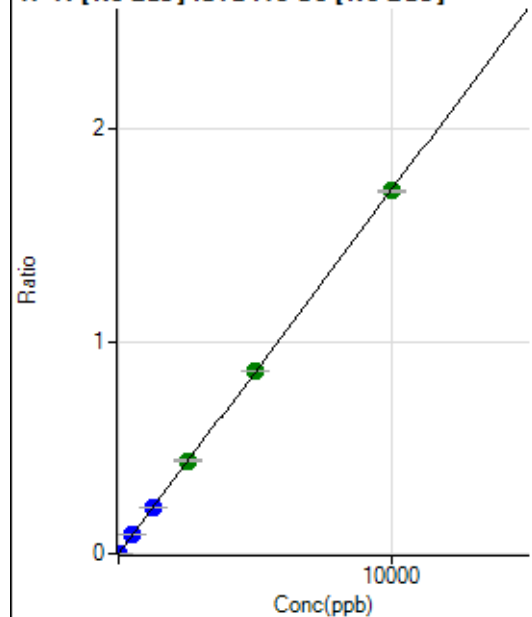
$$DL = 14.25$$

$$BEC = 88.47$$

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<br>. | RSD  |
|---|--------------------------|-----------|------------|------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 76.67      | 0.0000 | P        | 31.5 |
| 2 | <input type="checkbox"/> | 5.000     | 4.652      | 3674.95    | 0.0008 | P        | 1.1  |
| 3 | <input type="checkbox"/> | 500.000   | 508.984    | 387188.71  | 0.0872 | P        | 2.2  |
| 4 | <input type="checkbox"/> | 1250.000  | 1268.012   | 935409.94  | 0.2172 | P        | 3.8  |
| 5 | <input type="checkbox"/> | 2500.000  | 2555.301   | 1810373.48 | 0.4376 | A        | 1.4  |
| 6 | <input type="checkbox"/> | 5000.000  | 5016.038   | 3422925.19 | 0.8590 | A        | 0.4  |
| 7 | <input type="checkbox"/> | 10000.000 | 9975.455   | 6732653.65 | 1.7083 | A        | 0.7  |
| 8 | <input type="checkbox"/> |           |            | 1174.50    | 0.0003 | P        | 6.9  |

$$y = 1.7125\text{E-}004 * x + 1.7522\text{E-}005$$

$$R = 1.0000$$

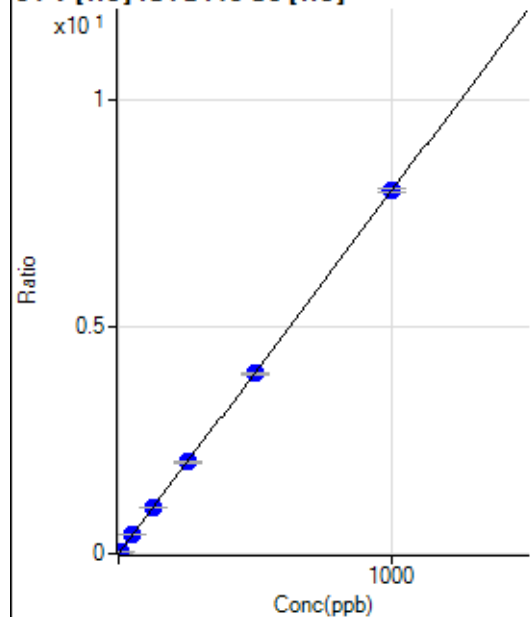
$$DL = 0.09676$$

$$BEC = 0.1023$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 16.67      | 0.0001 | P        | 20.1 |
| 2 | <input type="checkbox"/> | 5.000    | 4.935      | 5886.82    | 0.0396 | P        | 7.6  |
| 3 | <input type="checkbox"/> | 50.000   | 50.844     | 61185.59   | 0.4069 | P        | 0.9  |
| 4 | <input type="checkbox"/> | 125.000  | 126.188    | 144899.82  | 1.0096 | P        | 1.2  |
| 5 | <input type="checkbox"/> | 250.000  | 253.231    | 276227.55  | 2.0259 | P        | 1.3  |
| 6 | <input type="checkbox"/> | 500.000  | 497.780    | 532378.87  | 3.9823 | P        | 1.0  |
| 7 | <input type="checkbox"/> | 1000.000 | 1000.112   | 1039935.70 | 8.0008 | P        | 1.2  |
| 8 | <input type="checkbox"/> |          |            | 300.01     | 0.0022 | P        | 6.8  |

$$y = 0.0080 * x + 1.0902\text{E-}004$$

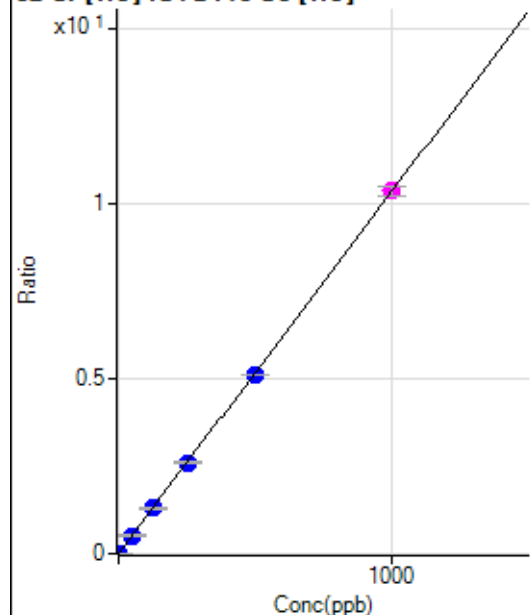
$$R = 1.0000$$

$$DL = 0.008207$$

$$BEC = 0.01363$$

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      | 864.48     | 0.0057  | P   | 7.2 |
| 2 | <input type="checkbox"/> | 2.000    | 1.939      | 3818.32    | 0.0257  | P   | 8.4 |
| 3 | <input type="checkbox"/> | 50.000   | 49.716     | 78118.48   | 0.5195  | P   | 1.3 |
| 4 | <input type="checkbox"/> | 125.000  | 125.085    | 186338.38  | 1.2985  | P   | 2.5 |
| 5 | <input type="checkbox"/> | 250.000  | 250.721    | 354069.89  | 2.5970  | P   | 1.7 |
| 6 | <input type="checkbox"/> | 500.000  | 493.417    | 682519.50  | 5.1053  | P   | 0.8 |
| 7 | <input type="checkbox"/> | 1000.000 | 1003.115   | 1348233.52 | 10.3733 | M   | 3.0 |
| 8 | <input type="checkbox"/> |          |            | 8089.02    | 0.0592  | P   | 1.8 |

$$y = 0.0103 * x + 0.0057$$

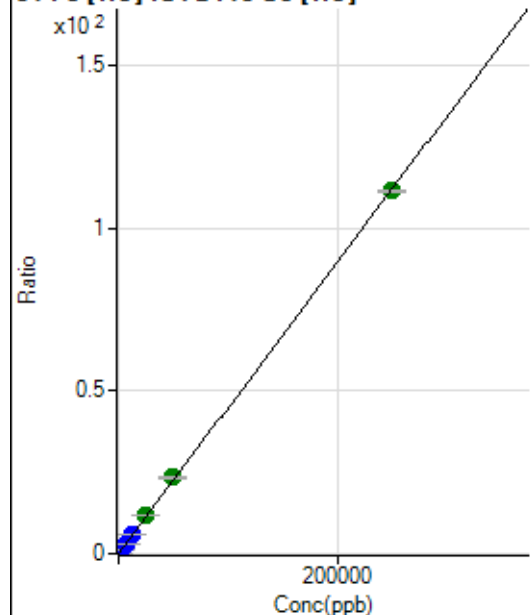
$$R = 1.0000$$

$$DL = 0.1188$$

$$BEC = 0.5471$$

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      | 270.01      | 0.0018   | P   | 5.5 |
| 2 | <input type="checkbox"/> | 50.000    | 54.134     | 3857.22     | 0.0260   | P   | 8.3 |
| 3 | <input type="checkbox"/> | 2500.000  | 2662.514   | 179204.12   | 1.1916   | P   | 0.5 |
| 4 | <input type="checkbox"/> | 6250.000  | 6605.912   | 423960.31   | 2.9539   | P   | 1.2 |
| 5 | <input type="checkbox"/> | 12500.000 | 13136.002  | 800643.41   | 5.8722   | P   | 1.3 |
| 6 | <input type="checkbox"/> | 25000.000 | 26665.522  | 1593420.76  | 11.9185  | A   | 0.1 |
| 7 | <input type="checkbox"/> | 50000.000 | 52485.539  | 3048945.40  | 23.4573  | A   | 1.2 |
| 8 | <input type="checkbox"/> | 250000.00 | 249294.01  | 15215340.05 | 111.4101 | A   | 0.3 |

$$y = 4.4690E-004 * x + 0.0018$$

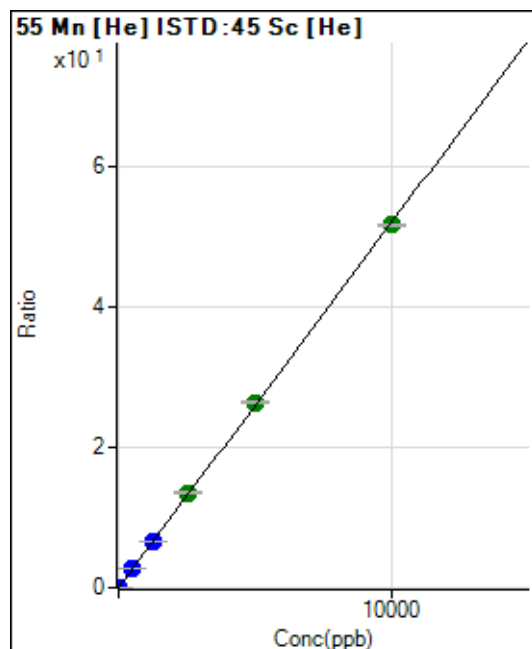
$$R = 0.9999$$

$$DL = 0.6512$$

$$BEC = 3.952$$

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      | 71.11      | 0.0005  | P    | 31.1 |
| 2 | <input type="checkbox"/> | 1.000     | 0.994      | 834.48     | 0.0056  | P    | 16.9 |
| 3 | <input type="checkbox"/> | 500.000   | 503.616    | 394518.47  | 2.6232  | P    | 0.2  |
| 4 | <input type="checkbox"/> | 1250.000  | 1248.423   | 933176.21  | 6.5021  | P    | 1.7  |
| 5 | <input type="checkbox"/> | 2500.000  | 2600.246   | 1846518.88 | 13.5422 | A    | 0.9  |
| 6 | <input type="checkbox"/> | 5000.000  | 5077.960   | 3535551.61 | 26.4459 | A    | 0.6  |
| 7 | <input type="checkbox"/> | 10000.000 | 9935.975   | 6726158.37 | 51.7459 | A    | 0.7  |
| 8 | <input type="checkbox"/> |           |            | 3819.44    | 0.0280  | P    | 2.9  |

$$y = 0.0052 * x + 4.6498E-004$$

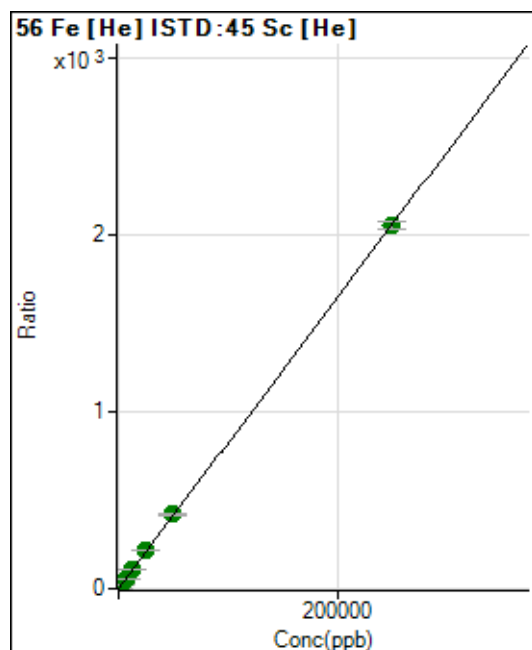
$$R = 0.9999$$

$$DL = 0.0833$$

$$BEC = 0.08928$$

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      | 2229.08     | 0.0146    | P    | 1.2 |
| 2 | <input type="checkbox"/> | 50.000    | 50.019     | 63201.50    | 0.4254    | P    | 8.3 |
| 3 | <input type="checkbox"/> | 2500.000  | 2680.190   | 3312571.37  | 22.0258   | A    | 0.5 |
| 4 | <input type="checkbox"/> | 6250.000  | 6550.870   | 7724286.13  | 53.8139   | A    | 0.4 |
| 5 | <input type="checkbox"/> | 12500.000 | 13284.120  | 14876483.11 | 109.1110  | A    | 1.5 |
| 6 | <input type="checkbox"/> | 25000.000 | 26000.177  | 28547432.91 | 213.5423  | A    | 1.4 |
| 7 | <input type="checkbox"/> | 50000.000 | 51077.069  | 54524510.86 | 419.4874  | A    | 1.3 |
| 8 | <input type="checkbox"/> | 250000.00 | 249636.03  | 279921991.3 | 2,050.162 | A    | 2.0 |

$$y = 0.0082 * x + 0.0146$$

$$R = 1.0000$$

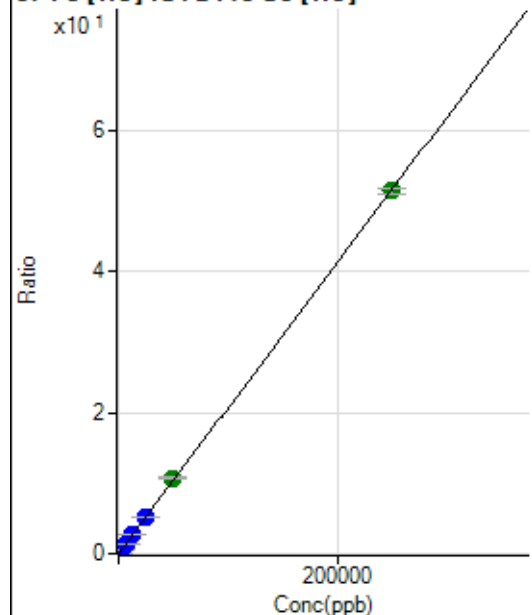
$$DL = 0.06535$$

$$BEC = 1.775$$

Weight: <None>

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS        | Ratio   | Det<br>. | RSD  |
|---|--------------------------|-----------|------------|------------|---------|----------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 113.33     | 0.0007  | P        | 16.5 |
| 2 | <input type="checkbox"/> | 50.000    | 51.060     | 1676.78    | 0.0113  | P        | 7.5  |
| 3 | <input type="checkbox"/> | 2500.000  | 2592.143   | 80559.34   | 0.5357  | P        | 1.5  |
| 4 | <input type="checkbox"/> | 6250.000  | 6457.358   | 191381.35  | 1.3334  | P        | 0.6  |
| 5 | <input type="checkbox"/> | 12500.000 | 13016.776  | 366380.77  | 2.6871  | P        | 1.2  |
| 6 | <input type="checkbox"/> | 25000.000 | 25357.647  | 699734.68  | 5.2339  | P        | 0.2  |
| 7 | <input type="checkbox"/> | 50000.000 | 51698.586  | 1386749.43 | 10.6700 | A        | 2.7  |
| 8 | <input type="checkbox"/> | 250000.00 | 249592.57  | 7033438.37 | 51.5104 | A        | 1.8  |

$$y = 2.0637E-004 * x + 7.4133E-004$$

$$R = 1.0000$$

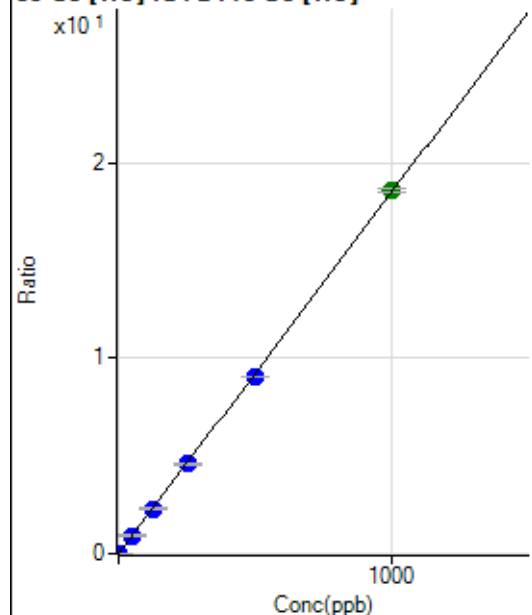
$$DL = 1.778$$

$$BEC = 3.592$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio   | Det<br>. | RSD  |
|---|--------------------------|----------|------------|------------|---------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 114.44     | 0.0007  | P        | 27.7 |
| 2 | <input type="checkbox"/> | 1.000    | 1.032      | 2940.33    | 0.0198  | P        | 12.4 |
| 3 | <input type="checkbox"/> | 50.000   | 50.401     | 140189.02  | 0.9322  | P        | 0.6  |
| 4 | <input type="checkbox"/> | 125.000  | 125.020    | 331703.03  | 2.3112  | P        | 1.6  |
| 5 | <input type="checkbox"/> | 250.000  | 248.647    | 626673.50  | 4.5960  | P        | 1.1  |
| 6 | <input type="checkbox"/> | 500.000  | 492.002    | 1215728.08 | 9.0934  | P        | 0.1  |
| 7 | <input type="checkbox"/> | 1000.000 | 1004.315   | 2412677.69 | 18.5614 | A        | 0.9  |
| 8 | <input type="checkbox"/> |          |            | 6367.05    | 0.0466  | P        | 5.7  |

$$y = 0.0185 * x + 7.4842E-004$$

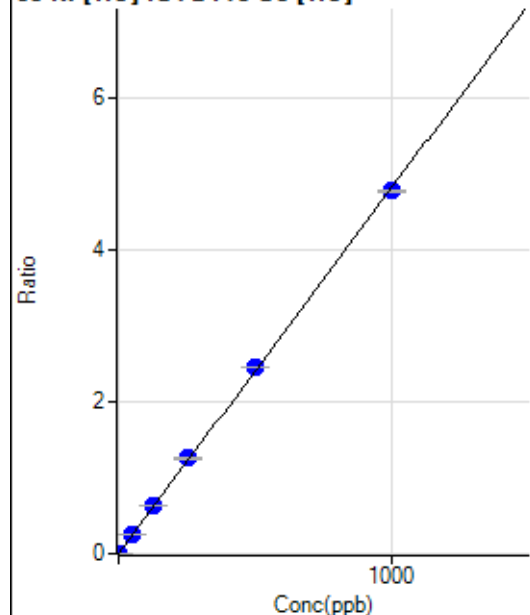
$$R = 1.0000$$

$$DL = 0.0336$$

$$BEC = 0.0405$$

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      | 63.33     | 0.0004 | P   | 5.4 |
| 2 | <input type="checkbox"/> | 1.000    | 0.980      | 763.36    | 0.0051 | P   | 5.3 |
| 3 | <input type="checkbox"/> | 50.000   | 52.948     | 38338.30  | 0.2549 | P   | 0.8 |
| 4 | <input type="checkbox"/> | 125.000  | 131.640    | 90892.88  | 0.6332 | P   | 0.3 |
| 5 | <input type="checkbox"/> | 250.000  | 260.290    | 170671.48 | 1.2517 | P   | 0.6 |
| 6 | <input type="checkbox"/> | 500.000  | 508.626    | 326936.70 | 2.4455 | P   | 0.4 |
| 7 | <input type="checkbox"/> | 1000.000 | 992.137    | 619988.34 | 4.7698 | P   | 0.6 |
| 8 | <input type="checkbox"/> |          |            | 2983.68   | 0.0218 | P   | 2.1 |

$$y = 0.0048 * x + 4.1423E-004$$

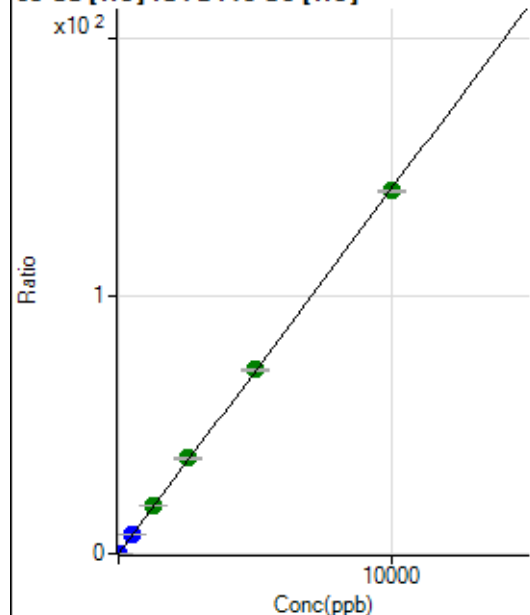
$$R = 0.9999$$

$$DL = 0.01395$$

$$BEC = 0.08617$$

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      | 573.35      | 0.0037   | P   | 2.1 |
| 2 | <input type="checkbox"/> | 2.000     | 1.881      | 4518.54     | 0.0304   | P   | 8.0 |
| 3 | <input type="checkbox"/> | 500.000   | 509.800    | 1087084.67  | 7.2291   | P   | 1.3 |
| 4 | <input type="checkbox"/> | 1250.000  | 1323.277   | 2692367.96  | 18.7583  | A   | 1.4 |
| 5 | <input type="checkbox"/> | 2500.000  | 2613.695   | 5050453.23  | 37.0472  | A   | 2.8 |
| 6 | <input type="checkbox"/> | 5000.000  | 5042.606   | 9555174.23  | 71.4718  | A   | 1.0 |
| 7 | <input type="checkbox"/> | 10000.000 | 9940.624   | 18313128.34 | 140.8906 | A   | 0.8 |
| 8 | <input type="checkbox"/> |           |            | 4539.68     | 0.0332   | P   | 6.1 |

$$y = 0.0142 * x + 0.0037$$

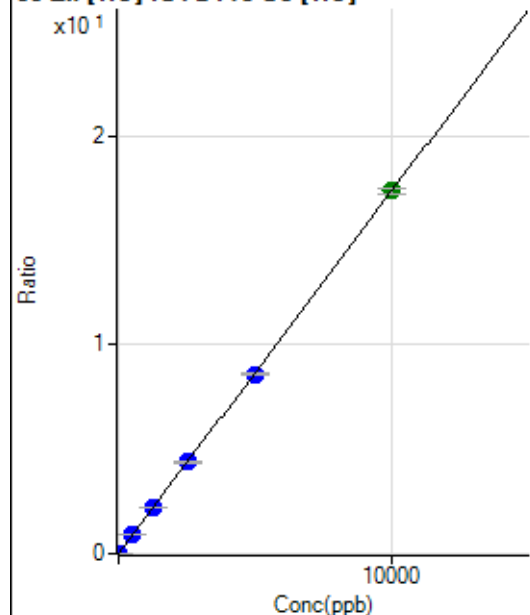
$$R = 0.9999$$

$$DL = 0.01684$$

$$BEC = 0.2646$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS        | Ratio   | Det | RSD |
|---|--------------------------|-----------|------------|------------|---------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 463.35     | 0.0030  | P   | 2.2 |
| 2 | <input type="checkbox"/> | 5.000     | 4.727      | 1672.34    | 0.0112  | P   | 5.7 |
| 3 | <input type="checkbox"/> | 500.000   | 513.453    | 134357.53  | 0.8935  | P   | 2.1 |
| 4 | <input type="checkbox"/> | 1250.000  | 1263.612   | 314949.59  | 2.1946  | P   | 1.8 |
| 5 | <input type="checkbox"/> | 2500.000  | 2537.015   | 600306.85  | 4.4031  | P   | 1.9 |
| 6 | <input type="checkbox"/> | 5000.000  | 4952.036   | 1148524.85 | 8.5915  | P   | 1.4 |
| 7 | <input type="checkbox"/> | 10000.000 | 10012.354  | 2257358.09 | 17.3678 | A   | 1.7 |
| 8 | <input type="checkbox"/> |           |            | 2732.51    | 0.0200  | P   | 7.0 |

$$y = 0.0017 * x + 0.0030$$

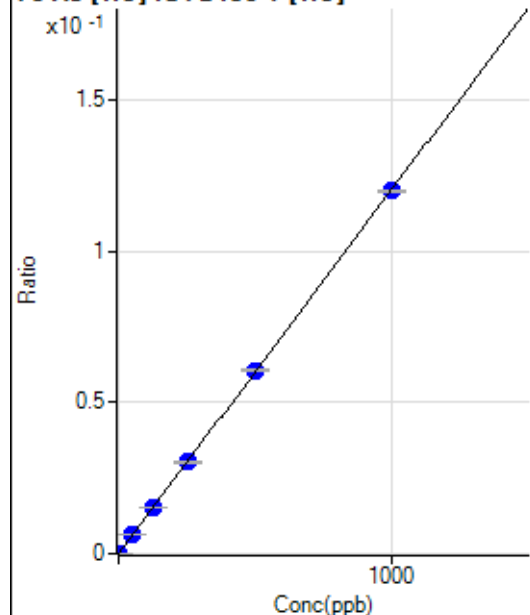
$$R = 1.0000$$

$$DL = 0.1174$$

$$BEC = 1.747$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS       | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-----------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 2.22      | 0.0000 | P   | 86.6 |
| 2 | <input type="checkbox"/> | 1.000    | 0.915      | 116.67    | 0.0001 | P   | 40.0 |
| 3 | <input type="checkbox"/> | 50.000   | 52.520     | 6900.64   | 0.0063 | P   | 2.7  |
| 4 | <input type="checkbox"/> | 125.000  | 126.963    | 15861.26  | 0.0153 | P   | 2.5  |
| 5 | <input type="checkbox"/> | 250.000  | 253.267    | 29984.26  | 0.0305 | P   | 2.1  |
| 6 | <input type="checkbox"/> | 500.000  | 503.405    | 57963.14  | 0.0607 | P   | 1.2  |
| 7 | <input type="checkbox"/> | 1000.000 | 997.110    | 111250.05 | 0.1201 | P   | 0.4  |
| 8 | <input type="checkbox"/> |          |            | 80.00     | 0.0001 | P   | 12.4 |

$$y = 1.2049E-004 * x + 2.0294E-006$$

$$R = 1.0000$$

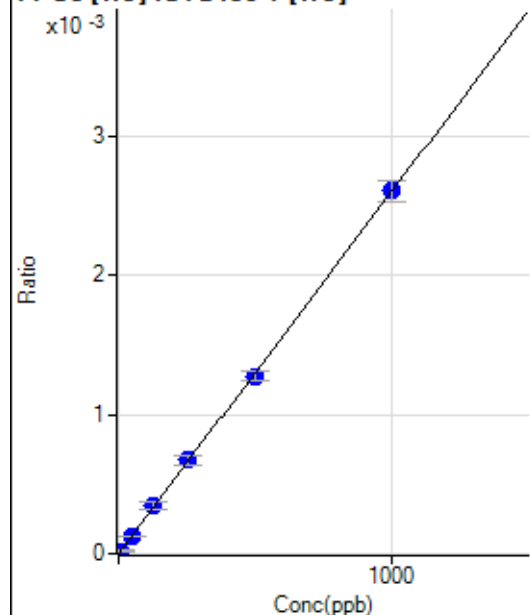
$$DL = 0.04376$$

$$BEC = 0.01684$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS     | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|---------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 0.00    | 0.0000 | P        |      |
| 2 | <input type="checkbox"/> | 5.000    | 6.182      | 17.78   | 0.0000 | P        | 73.4 |
| 3 | <input type="checkbox"/> | 50.000   | 46.306     | 131.11  | 0.0001 | P        | 0.7  |
| 4 | <input type="checkbox"/> | 125.000  | 132.987    | 357.79  | 0.0003 | P        | 16.2 |
| 5 | <input type="checkbox"/> | 250.000  | 258.180    | 658.91  | 0.0007 | P        | 9.0  |
| 6 | <input type="checkbox"/> | 500.000  | 489.338    | 1214.51 | 0.0013 | P        | 5.2  |
| 7 | <input type="checkbox"/> | 1000.000 | 1002.467   | 2410.23 | 0.0026 | P        | 6.1  |
| 8 | <input type="checkbox"/> |          |            | 14.44   | 0.0000 | P        | 12.6 |

$$y = 2.5972\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9998$$

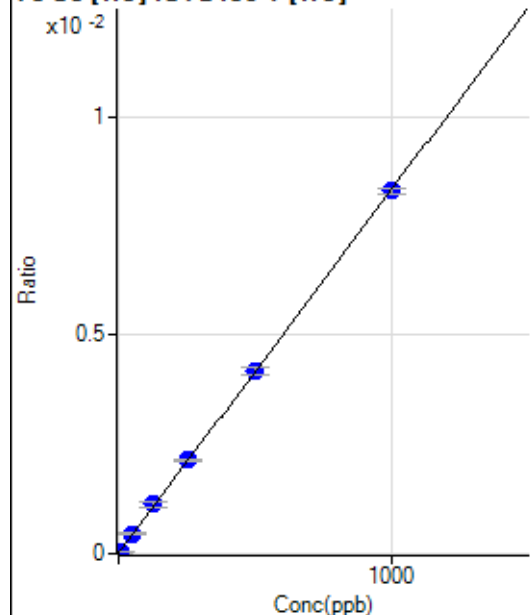
$$DL = 0$$

$$BEC = 0$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS     | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|---------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 8.89    | 0.0000 | P        | 56.8 |
| 2 | <input type="checkbox"/> | 5.000    | 5.961      | 62.22   | 0.0001 | P        | 26.0 |
| 3 | <input type="checkbox"/> | 50.000   | 54.524     | 503.35  | 0.0005 | P        | 17.0 |
| 4 | <input type="checkbox"/> | 125.000  | 134.343    | 1166.72 | 0.0011 | P        | 8.9  |
| 5 | <input type="checkbox"/> | 250.000  | 255.710    | 2096.85 | 0.0021 | P        | 2.8  |
| 6 | <input type="checkbox"/> | 500.000  | 501.378    | 3991.71 | 0.0042 | P        | 5.2  |
| 7 | <input type="checkbox"/> | 1000.000 | 996.485    | 7679.95 | 0.0083 | P        | 1.4  |
| 8 | <input type="checkbox"/> |          |            | 56.67   | 0.0001 | P        | 24.7 |

$$y = 8.3150\text{E-}006 * x + 8.0710\text{E-}006$$

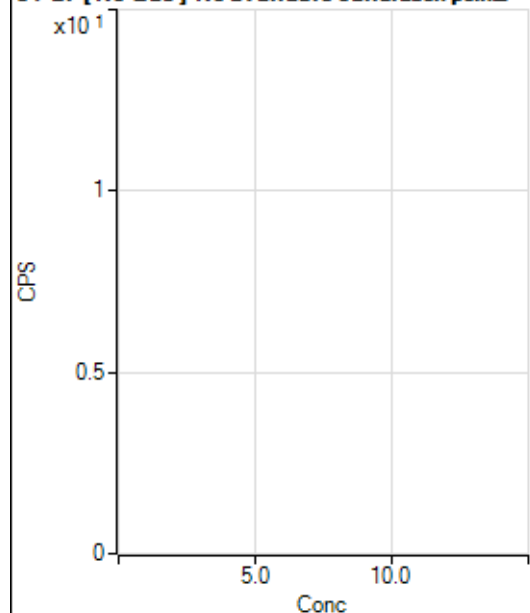
$$R = 1.0000$$

$$DL = 1.655$$

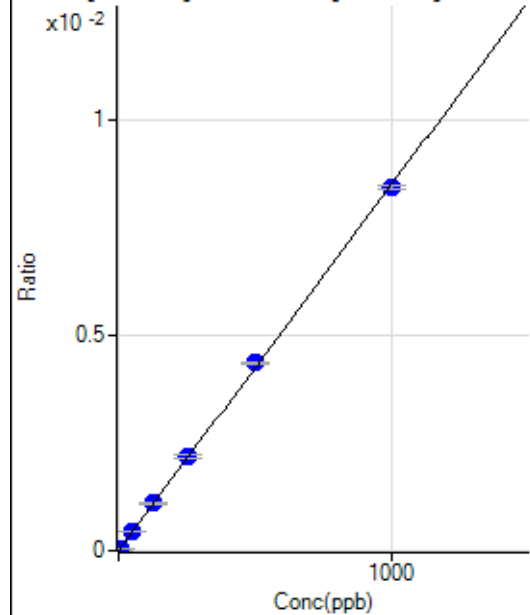
$$BEC = 0.9706$$

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"/> |       |            | 2217.98 |       | P        | 4.1 |
| 2 | <input type="checkbox"/> |       |            | 2211.31 |       | P        | 2.7 |
| 3 | <input type="checkbox"/> |       |            | 2085.73 |       | P        | 3.5 |
| 4 | <input type="checkbox"/> |       |            | 1942.38 |       | P        | 3.1 |
| 5 | <input type="checkbox"/> |       |            | 1816.80 |       | P        | 4.7 |
| 6 | <input type="checkbox"/> |       |            | 1809.02 |       | P        | 3.8 |
| 7 | <input type="checkbox"/> |       |            | 1799.03 |       | P        | 7.6 |
| 8 | <input type="checkbox"/> |       |            | 3277.08 |       | P        | 3.8 |

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS      | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|----------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 18.89    | 0.0000 | P        | 147. |
| 2 | <input type="checkbox"/> | 5.000    | 4.507      | 430.02   | 0.0000 | P        | 11.2 |
| 3 | <input type="checkbox"/> | 50.000   | 52.294     | 4860.96  | 0.0004 | P        | 4.8  |
| 4 | <input type="checkbox"/> | 125.000  | 129.847    | 11502.70 | 0.0011 | P        | 4.2  |
| 5 | <input type="checkbox"/> | 250.000  | 257.691    | 22165.68 | 0.0022 | P        | 4.1  |
| 6 | <input type="checkbox"/> | 500.000  | 513.146    | 42707.65 | 0.0044 | P        | 1.0  |
| 7 | <input type="checkbox"/> | 1000.000 | 990.786    | 81138.98 | 0.0084 | P        | 1.1  |
| 8 | <input type="checkbox"/> |          |            | 402.24   | 0.0000 | P        | 6.2  |

$$y = 8.5106E-006 * x + 1.8128E-006$$

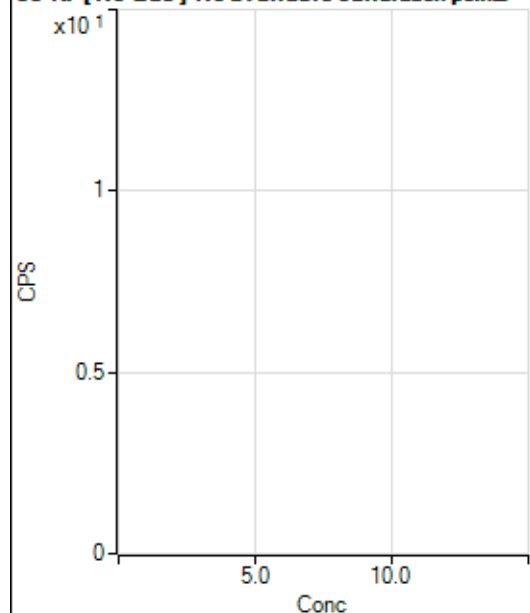
$$R = 0.9998$$

$$DL = 0.9445$$

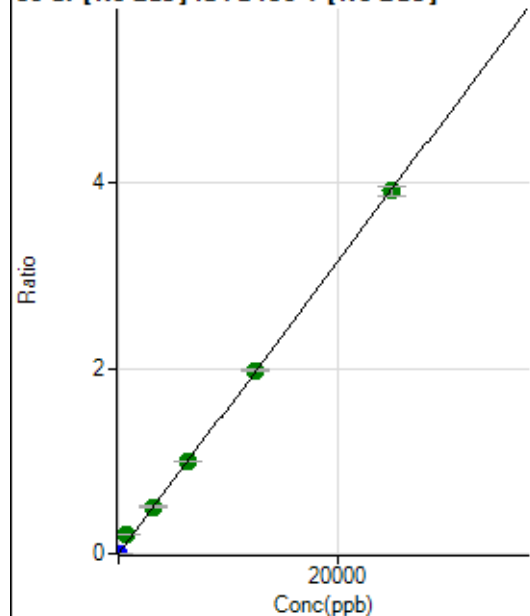
$$BEC = 0.213$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 158.89 |       | P        | 4.8  |
| 2 | <input type="checkbox"/> |       |            | 170.00 |       | P        | 12.9 |
| 3 | <input type="checkbox"/> |       |            | 182.22 |       | P        | 28.4 |
| 4 | <input type="checkbox"/> |       |            | 150.00 |       | P        | 12.4 |
| 5 | <input type="checkbox"/> |       |            | 134.45 |       | P        | 5.2  |
| 6 | <input type="checkbox"/> |       |            | 151.11 |       | P        | 6.7  |
| 7 | <input type="checkbox"/> |       |            | 150.00 |       | P        | 9.7  |
| 8 | <input type="checkbox"/> |       |            | 165.56 |       | P        | 10.1 |

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio  | Det<br>. | RSD  |
|---|--------------------------|-----------|------------|-------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 405.57      | 0.0000 | P        | 4.8  |
| 2 | <input type="checkbox"/> | 1.000     | 0.939      | 1985.71     | 0.0002 | P        | 2.7  |
| 3 | <input type="checkbox"/> | 625.000   | 1293.940   | 2211967.24  | 0.2033 | A        | 2.6  |
| 4 | <input type="checkbox"/> | 3125.000  | 3180.371   | 5192394.44  | 0.4996 | A        | 3.5  |
| 5 | <input type="checkbox"/> | 6250.000  | 6338.218   | 10055673.88 | 0.9956 | A        | 0.4  |
| 6 | <input type="checkbox"/> | 12500.000 | 12565.561  | 19294702.63 | 1.9738 | A        | 1.2  |
| 7 | <input type="checkbox"/> | 25000.000 | 24921.520  | 37658930.27 | 3.9147 | A        | 2.6  |
| 8 | <input type="checkbox"/> |           |            | 4784.27     | 0.0005 | P        | 12.8 |

$$y = 1.5708E-004 * x + 3.8072E-005$$

$$R = 0.9997$$

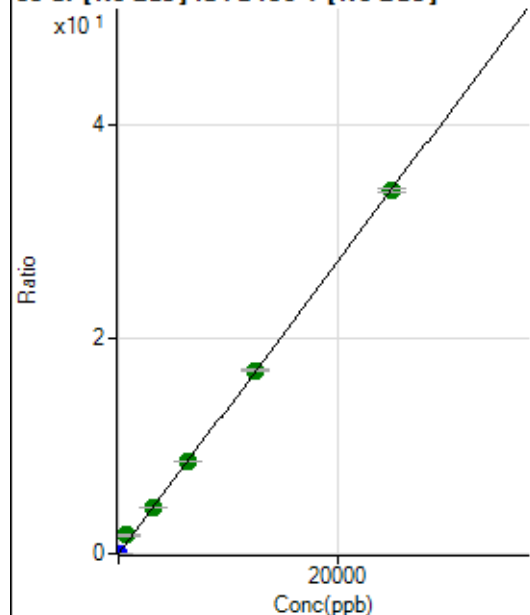
$$DL = 0.0351$$

$$BEC = 0.2424$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio   | Det<br>. | RSD  |
|---|--------------------------|-----------|------------|-------------|---------|----------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 1237.85     | 0.0001  | P        | 5.2  |
| 2 | <input type="checkbox"/> | 1.000     | 0.915      | 14524.36    | 0.0014  | P        | 1.4  |
| 3 | <input type="checkbox"/> | 625.000   | 1259.668   | 18591012.50 | 1.7082  | A        | 1.3  |
| 4 | <input type="checkbox"/> | 3125.000  | 3182.296   | 44852275.44 | 4.3152  | A        | 2.9  |
| 5 | <input type="checkbox"/> | 6250.000  | 6355.958   | 87043898.70 | 8.6185  | A        | 0.0  |
| 6 | <input type="checkbox"/> | 12500.000 | 12581.385  | 166769344.1 | 17.0600 | A        | 0.6  |
| 7 | <input type="checkbox"/> | 25000.000 | 24909.789  | 324945857.3 | 33.7768 | A        | 0.9  |
| 8 | <input type="checkbox"/> |           |            | 38368.54    | 0.0042  | P        | 16.3 |

$$y = 0.0014 * x + 1.1624E-004$$

$$R = 0.9997$$

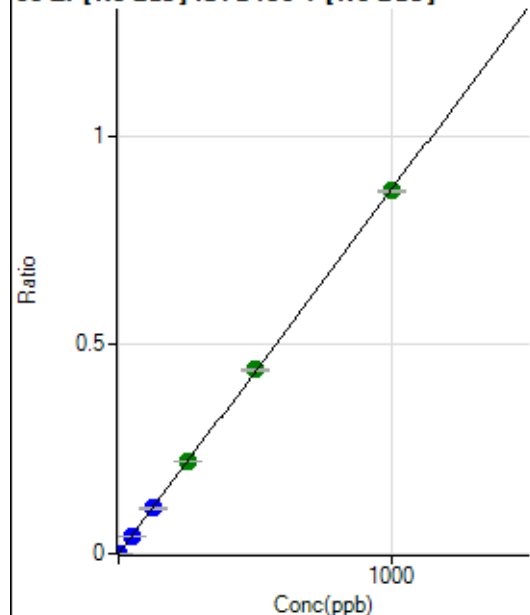
$$DL = 0.01339$$

$$BEC = 0.08572$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det<br>. | RSD |
|---|--------------------------|----------|------------|------------|--------|----------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 437.79     | 0.0000 | P        | 8.6 |
| 2 | <input type="checkbox"/> | 1.000    | 0.876      | 8611.64    | 0.0008 | P        | 2.4 |
| 3 | <input type="checkbox"/> | 50.000   | 49.372     | 468545.53  | 0.0431 | P        | 2.2 |
| 4 | <input type="checkbox"/> | 125.000  | 125.173    | 1134100.76 | 0.1091 | P        | 2.6 |
| 5 | <input type="checkbox"/> | 250.000  | 252.985    | 2226619.67 | 0.2205 | A        | 0.6 |
| 6 | <input type="checkbox"/> | 500.000  | 505.566    | 4306621.39 | 0.4405 | A        | 1.1 |
| 7 | <input type="checkbox"/> | 1000.000 | 996.481    | 8353821.89 | 0.8683 | A        | 0.5 |
| 8 | <input type="checkbox"/> |          |            | 3703.86    | 0.0004 | P        | 6.9 |

$$y = 8.7132E-004 * x + 4.1034E-005$$

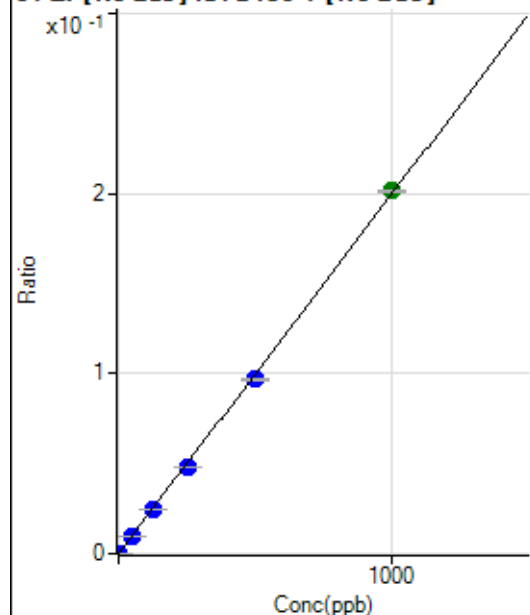
$$R = 1.0000$$

$$DL = 0.01219$$

$$BEC = 0.04709$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 94.44      | 0.0000 | P        | 15.8 |
| 2 | <input type="checkbox"/> | 1.000    | 0.844      | 1895.70    | 0.0002 | P        | 4.2  |
| 3 | <input type="checkbox"/> | 50.000   | 48.328     | 104901.44  | 0.0096 | P        | 3.1  |
| 4 | <input type="checkbox"/> | 125.000  | 123.162    | 255289.58  | 0.0246 | P        | 2.0  |
| 5 | <input type="checkbox"/> | 250.000  | 241.216    | 485663.70  | 0.0481 | P        | 0.7  |
| 6 | <input type="checkbox"/> | 500.000  | 484.898    | 944864.33  | 0.0967 | P        | 1.3  |
| 7 | <input type="checkbox"/> | 1000.000 | 1010.060   | 1937097.47 | 0.2013 | A        | 0.4  |
| 8 | <input type="checkbox"/> |          |            | 802.26     | 0.0001 | P        | 6.2  |

$$y = 1.9932\text{E-}004 * x + 8.8507\text{E-}006$$

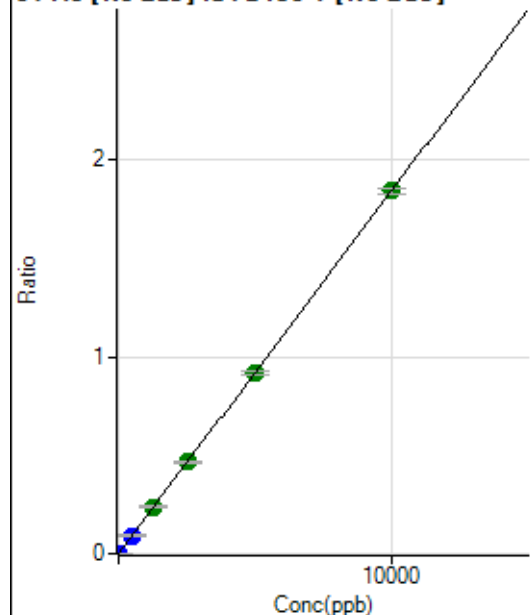
$$R = 0.9998$$

$$DL = 0.02111$$

$$BEC = 0.0444$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio  | Det<br>. | RSD |
|---|--------------------------|-----------|------------|-------------|--------|----------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 154.45      | 0.0000 | P        | 7.8 |
| 2 | <input type="checkbox"/> | 5.000     | 5.116      | 10241.64    | 0.0010 | P        | 2.9 |
| 3 | <input type="checkbox"/> | 500.000   | 500.979    | 1004568.95  | 0.0923 | P        | 2.0 |
| 4 | <input type="checkbox"/> | 1250.000  | 1289.541   | 2470359.48  | 0.2376 | A        | 1.4 |
| 5 | <input type="checkbox"/> | 2500.000  | 2519.711   | 4688473.96  | 0.4643 | A        | 1.3 |
| 6 | <input type="checkbox"/> | 5000.000  | 4978.142   | 8965525.91  | 0.9172 | A        | 1.9 |
| 7 | <input type="checkbox"/> | 10000.000 | 10001.010  | 17726788.76 | 1.8426 | A        | 1.4 |
| 8 | <input type="checkbox"/> |           |            | 4278.49     | 0.0005 | P        | 6.6 |

$$y = 1.8424\text{E-}004 * x + 1.4513\text{E-}005$$

$$R = 1.0000$$

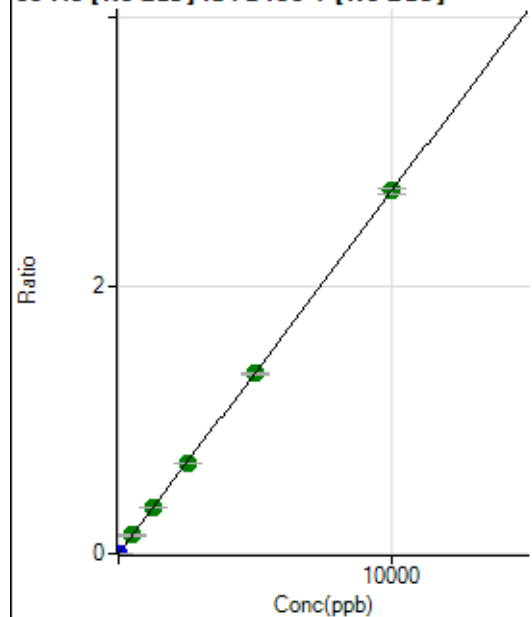
$$DL = 0.01841$$

$$BEC = 0.07877$$

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<br>. | RSD  |
|---|--------------------------|-----------|------------|-------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 54.44       | 0.0000 | P        | 14.9 |
| 2 | <input type="checkbox"/> | 5.000     | 4.308      | 12527.96    | 0.0012 | P        | 1.4  |
| 3 | <input type="checkbox"/> | 500.000   | 504.332    | 1485036.45  | 0.1365 | A        | 1.5  |
| 4 | <input type="checkbox"/> | 1250.000  | 1275.723   | 3588669.64  | 0.3452 | A        | 1.1  |
| 5 | <input type="checkbox"/> | 2500.000  | 2496.676   | 6822028.16  | 0.6755 | A        | 1.3  |
| 6 | <input type="checkbox"/> | 5000.000  | 4967.345   | 13137985.64 | 1.3440 | A        | 1.1  |
| 7 | <input type="checkbox"/> | 10000.000 | 10013.727  | 26064603.50 | 2.7094 | A        | 1.6  |
| 8 | <input type="checkbox"/> |           |            | 4902.05     | 0.0005 | P        | 6.6  |

$$y = 2.7056E-004 * x + 5.1089E-006$$

$$R = 1.0000$$

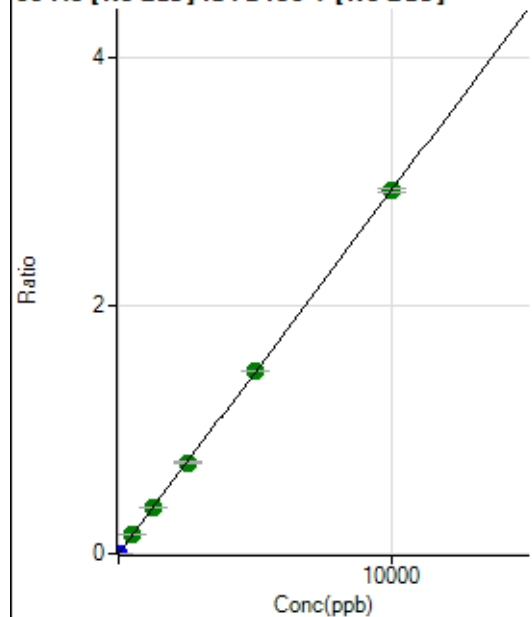
$$DL = 0.008433$$

$$BEC = 0.01888$$

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<br>. | RSD  |
|---|--------------------------|-----------|------------|-------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 145.56      | 0.0000 | P        | 29.9 |
| 2 | <input type="checkbox"/> | 5.000     | 4.470      | 14140.62    | 0.0013 | P        | 2.2  |
| 3 | <input type="checkbox"/> | 500.000   | 510.109    | 1623982.18  | 0.1492 | A        | 1.4  |
| 4 | <input type="checkbox"/> | 1250.000  | 1274.784   | 3876424.84  | 0.3729 | A        | 1.9  |
| 5 | <input type="checkbox"/> | 2500.000  | 2513.376   | 7424589.12  | 0.7352 | A        | 1.7  |
| 6 | <input type="checkbox"/> | 5000.000  | 5016.123   | 14343159.65 | 1.4673 | A        | 0.4  |
| 7 | <input type="checkbox"/> | 10000.000 | 9984.991   | 28098036.25 | 2.9207 | A        | 1.2  |
| 8 | <input type="checkbox"/> |           |            | 5462.26     | 0.0006 | P        | 8.0  |

$$y = 2.9251E-004 * x + 1.3647E-005$$

$$R = 1.0000$$

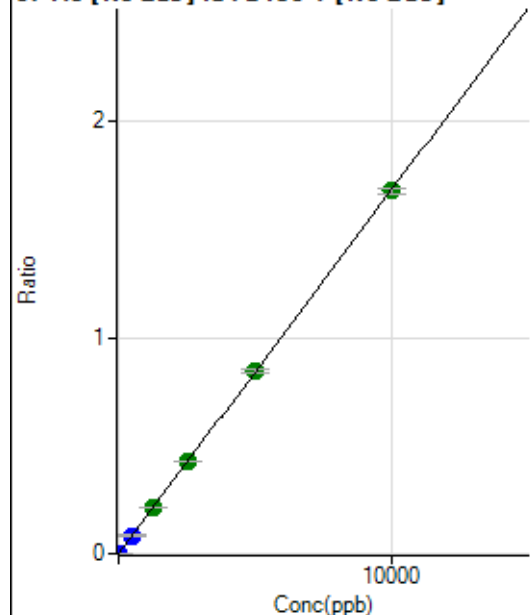
$$DL = 0.04186$$

$$BEC = 0.04666$$

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<br>. | RSD  |
|---|--------------------------|-----------|------------|-------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 34.45       | 0.0000 | P        | 39.2 |
| 2 | <input type="checkbox"/> | 5.000     | 4.280      | 7735.56     | 0.0007 | P        | 1.9  |
| 3 | <input type="checkbox"/> | 500.000   | 498.991    | 912962.35   | 0.0839 | P        | 2.3  |
| 4 | <input type="checkbox"/> | 1250.000  | 1258.692   | 2199944.85  | 0.2116 | A        | 2.3  |
| 5 | <input type="checkbox"/> | 2500.000  | 2544.661   | 4320823.72  | 0.4279 | A        | 1.4  |
| 6 | <input type="checkbox"/> | 5000.000  | 5025.270   | 8259379.11  | 0.8449 | A        | 1.5  |
| 7 | <input type="checkbox"/> | 10000.000 | 9975.164   | 16134610.03 | 1.6772 | A        | 1.7  |
| 8 | <input type="checkbox"/> |           |            | 2991.51     | 0.0003 | P        | 9.1  |

$$y = 1.6814\text{E-}004 * x + 3.2388\text{E-}006$$

$$R = 1.0000$$

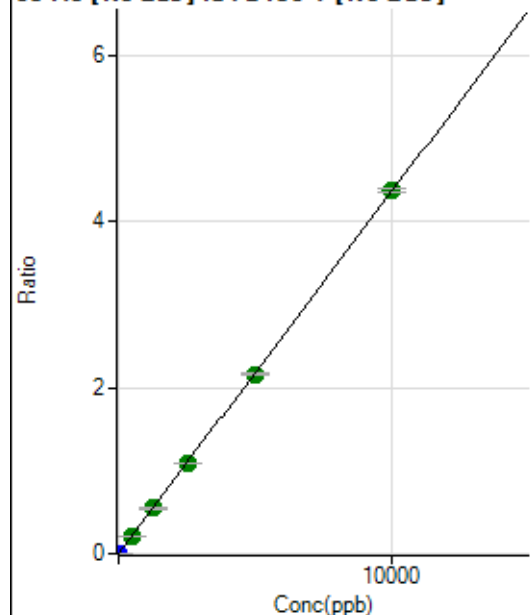
$$DL = 0.02263$$

$$BEC = 0.01926$$

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<br>. | RSD  |
|---|--------------------------|-----------|------------|-------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 110.00      | 0.0000 | P        | 17.0 |
| 2 | <input type="checkbox"/> | 5.000     | 4.300      | 20142.55    | 0.0019 | P        | 1.0  |
| 3 | <input type="checkbox"/> | 500.000   | 497.158    | 2355196.00  | 0.2164 | A        | 1.9  |
| 4 | <input type="checkbox"/> | 1250.000  | 1254.538   | 5676330.68  | 0.5461 | A        | 2.5  |
| 5 | <input type="checkbox"/> | 2500.000  | 2490.919   | 10949938.17 | 1.0843 | A        | 1.2  |
| 6 | <input type="checkbox"/> | 5000.000  | 4956.577   | 21090707.60 | 2.1575 | A        | 0.9  |
| 7 | <input type="checkbox"/> | 10000.000 | 10023.557  | 41975634.93 | 4.3631 | A        | 1.0  |
| 8 | <input type="checkbox"/> |           |            | 7382.12     | 0.0008 | P        | 10.7 |

$$y = 4.3528\text{E-}004 * x + 1.0330\text{E-}005$$

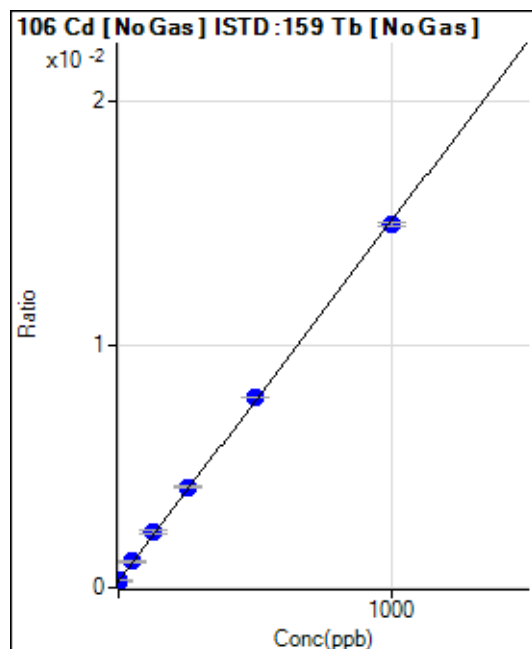
$$R = 1.0000$$

$$DL = 0.0121$$

$$BEC = 0.02373$$

Weight: &lt;None&gt;

Min Conc: 0



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS       | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|-----------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 2465.80   | 0.0003 | P   | 4.1 |
| 2 | <input type="checkbox"/> | 1.000    | 2.171      | 2804.76   | 0.0003 | P   | 4.4 |
| 3 | <input type="checkbox"/> | 50.000   | 55.399     | 10372.90  | 0.0011 | P   | 2.3 |
| 4 | <input type="checkbox"/> | 125.000  | 136.763    | 21612.57  | 0.0023 | P   | 4.9 |
| 5 | <input type="checkbox"/> | 250.000  | 261.410    | 38558.34  | 0.0041 | P   | 1.3 |
| 6 | <input type="checkbox"/> | 500.000  | 512.763    | 71690.58  | 0.0079 | P   | 0.1 |
| 7 | <input type="checkbox"/> | 1000.000 | 989.024    | 135435.21 | 0.0149 | P   | 1.0 |
| 8 | <input type="checkbox"/> |          |            | 2493.59   | 0.0003 | P   | 1.6 |

$$y = 1.4834\text{E-}005 * x + 2.5746\text{E-}004$$

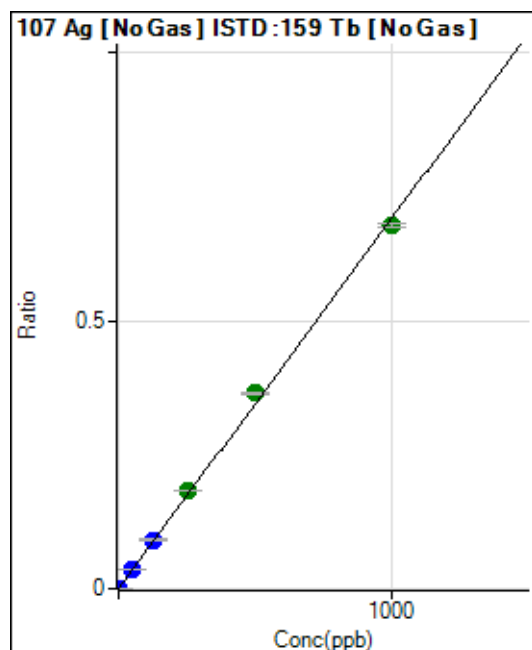
R = 0.9998

DL = 2.159

BEC = 17.36

Weight: <None>

Min Conc: 0



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 52.22      | 0.0000 | P   | 32.3 |
| 2 | <input type="checkbox"/> | 1.000    | 0.934      | 6289.27    | 0.0006 | P   | 3.2  |
| 3 | <input type="checkbox"/> | 50.000   | 53.428     | 354165.04  | 0.0369 | P   | 2.5  |
| 4 | <input type="checkbox"/> | 125.000  | 130.871    | 853315.16  | 0.0903 | P   | 4.7  |
| 5 | <input type="checkbox"/> | 250.000  | 265.393    | 1706688.54 | 0.1830 | A   | 0.8  |
| 6 | <input type="checkbox"/> | 500.000  | 528.757    | 3324377.24 | 0.3647 | A   | 0.6  |
| 7 | <input type="checkbox"/> | 1000.000 | 980.868    | 6136764.42 | 0.6765 | A   | 1.1  |
| 8 | <input type="checkbox"/> |          |            | 1385.64    | 0.0002 | P   | 5.1  |

$$y = 6.8964\text{E-}004 * x + 5.4671\text{E-}006$$

R = 0.9992

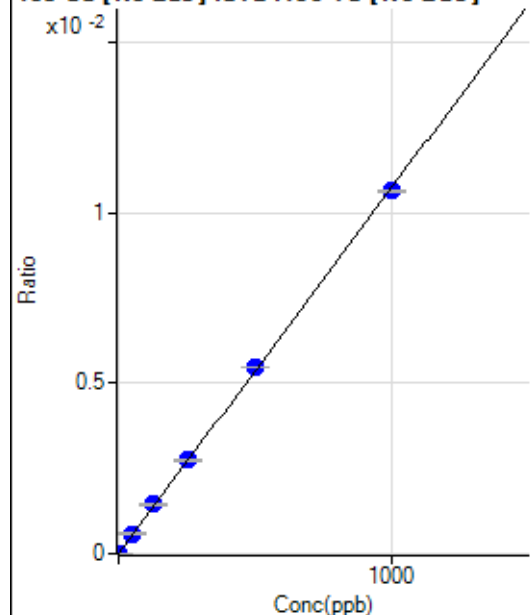
DL = 0.007693

BEC = 0.007927

Weight: <None>

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      | 11.11    | 0.0000 | P   | 74.7 |
| 2 | <input type="checkbox"/> | 1.000    | 1.126      | 127.78   | 0.0000 | P   | 14.3 |
| 3 | <input type="checkbox"/> | 50.000   | 54.373     | 5613.42  | 0.0006 | P   | 2.7  |
| 4 | <input type="checkbox"/> | 125.000  | 134.257    | 13624.61 | 0.0014 | P   | 2.9  |
| 5 | <input type="checkbox"/> | 250.000  | 257.401    | 25737.45 | 0.0028 | P   | 2.0  |
| 6 | <input type="checkbox"/> | 500.000  | 510.019    | 49855.42 | 0.0055 | P   | 0.3  |
| 7 | <input type="checkbox"/> | 1000.000 | 991.764    | 96467.18 | 0.0106 | P   | 0.5  |
| 8 | <input type="checkbox"/> |          |            | 101.11   | 0.0000 | P   | 37.7 |

$$y = 1.0721\text{E-}005 * x + 1.1533\text{E-}006$$

$$R = 0.9999$$

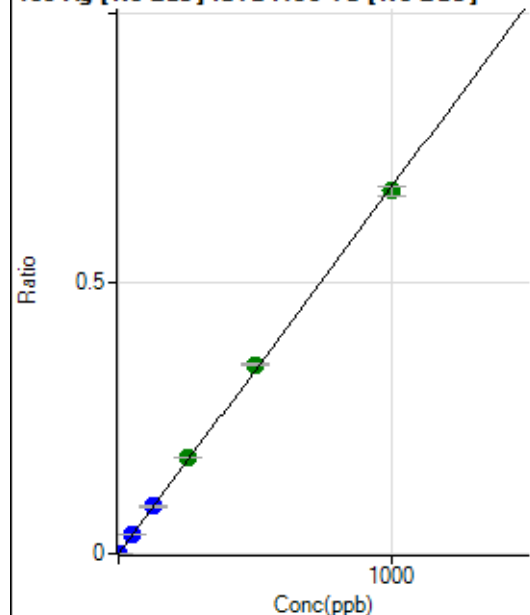
$$DL = 0.2412$$

$$BEC = 0.1076$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 14.44      | 0.0000 | P   | 67.0 |
| 2 | <input type="checkbox"/> | 1.000    | 0.945      | 6222.57    | 0.0006 | P   | 2.5  |
| 3 | <input type="checkbox"/> | 50.000   | 52.544     | 342657.58  | 0.0357 | P   | 2.3  |
| 4 | <input type="checkbox"/> | 125.000  | 128.561    | 824855.66  | 0.0872 | P   | 3.9  |
| 5 | <input type="checkbox"/> | 250.000  | 261.402    | 1653735.24 | 0.1774 | A   | 1.1  |
| 6 | <input type="checkbox"/> | 500.000  | 514.650    | 3183341.62 | 0.3492 | A   | 1.3  |
| 7 | <input type="checkbox"/> | 1000.000 | 989.252    | 6089574.77 | 0.6712 | A   | 2.4  |
| 8 | <input type="checkbox"/> |          |            | 1294.52    | 0.0001 | P   | 4.2  |

$$y = 6.7850\text{E-}004 * x + 1.5153\text{E-}006$$

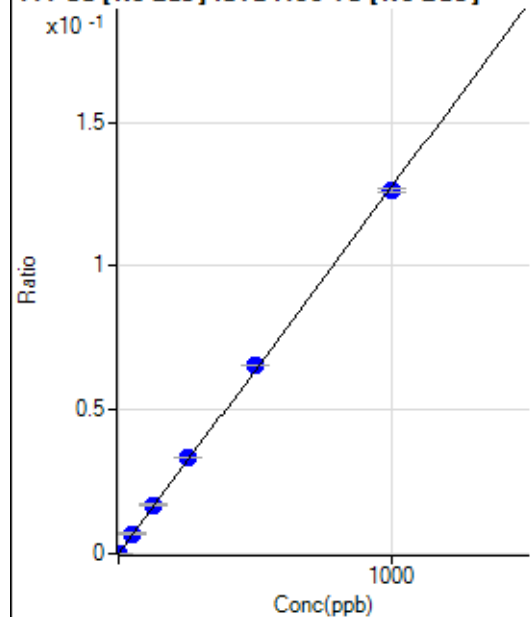
$$R = 0.9998$$

$$DL = 0.004486$$

$$BEC = 0.002233$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 247.69     | 0.0000 | P   | 1.9 |
| 2 | <input type="checkbox"/> | 1.000    | 1.039      | 1532.22    | 0.0002 | P   | 1.5 |
| 3 | <input type="checkbox"/> | 50.000   | 54.541     | 67022.38   | 0.0070 | P   | 2.8 |
| 4 | <input type="checkbox"/> | 125.000  | 133.306    | 160800.41  | 0.0170 | P   | 4.7 |
| 5 | <input type="checkbox"/> | 250.000  | 261.645    | 311078.06  | 0.0334 | P   | 0.3 |
| 6 | <input type="checkbox"/> | 500.000  | 512.814    | 595818.63  | 0.0654 | P   | 0.6 |
| 7 | <input type="checkbox"/> | 1000.000 | 989.416    | 1143803.38 | 0.1261 | P   | 1.1 |
| 8 | <input type="checkbox"/> |          |            | 905.28     | 0.0001 | P   | 5.0 |

$$y = 1.2740\text{E-}004 * x + 2.5868\text{E-}005$$

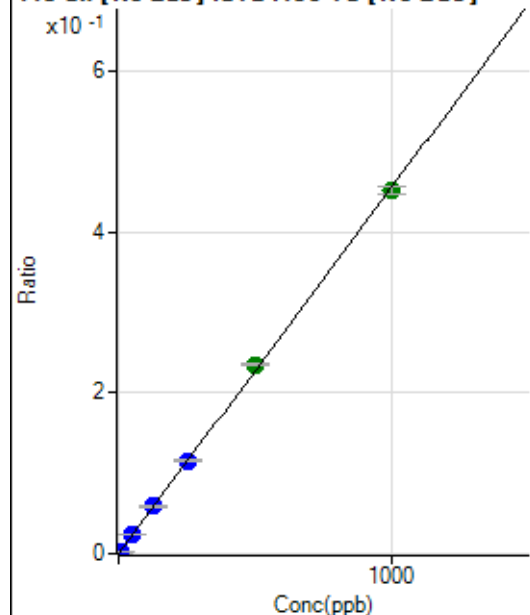
$$R = 0.9998$$

$$DL = 0.01152$$

$$BEC = 0.203$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 466.68     | 0.0000 | P   | 4.9 |
| 2 | <input type="checkbox"/> | 5.000    | 4.669      | 21042.95   | 0.0022 | P   | 3.2 |
| 3 | <input type="checkbox"/> | 50.000   | 51.875     | 227418.28  | 0.0237 | P   | 2.5 |
| 4 | <input type="checkbox"/> | 125.000  | 128.656    | 554219.34  | 0.0586 | P   | 4.2 |
| 5 | <input type="checkbox"/> | 250.000  | 252.425    | 1071707.75 | 0.1150 | P   | 2.4 |
| 6 | <input type="checkbox"/> | 500.000  | 515.985    | 2141765.82 | 0.2349 | A   | 0.5 |
| 7 | <input type="checkbox"/> | 1000.000 | 990.852    | 4092302.54 | 0.4511 | A   | 2.0 |
| 8 | <input type="checkbox"/> |          |            | 3013.69    | 0.0003 | P   | 5.2 |

$$y = 4.5523\text{E-}004 * x + 4.8726\text{E-}005$$

$$R = 0.9998$$

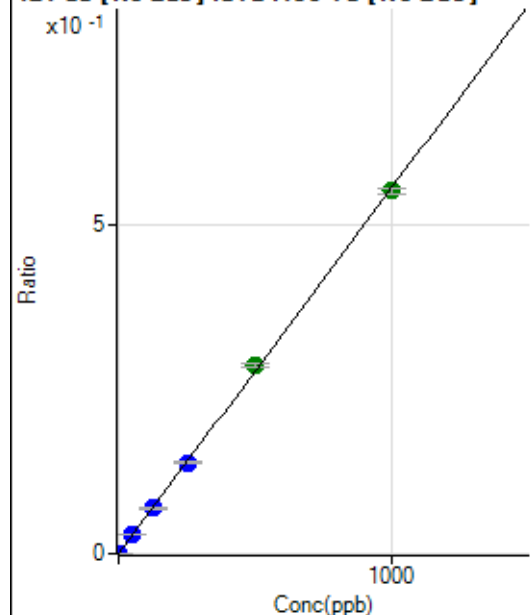
$$DL = 0.01565$$

$$BEC = 0.107$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 56.67      | 0.0000 | P    | 38.1 |
| 2 | <input type="checkbox"/> | 2.000    | 1.883      | 10199.42   | 0.0011 | P    | 4.1  |
| 3 | <input type="checkbox"/> | 50.000   | 50.975     | 272780.06  | 0.0284 | P    | 2.9  |
| 4 | <input type="checkbox"/> | 125.000  | 125.990    | 663347.04  | 0.0701 | P    | 3.8  |
| 5 | <input type="checkbox"/> | 250.000  | 248.675    | 1290764.65 | 0.1385 | P    | 2.2  |
| 6 | <input type="checkbox"/> | 500.000  | 515.063    | 2614245.50 | 0.2868 | A    | 1.9  |
| 7 | <input type="checkbox"/> | 1000.000 | 992.627    | 5013334.37 | 0.5526 | A    | 1.9  |
| 8 | <input type="checkbox"/> |          |            | 3869.48    | 0.0004 | P    | 17.9 |

$$y = 5.5674\text{E-}004 * x + 5.9384\text{E-}006$$

$$R = 0.9998$$

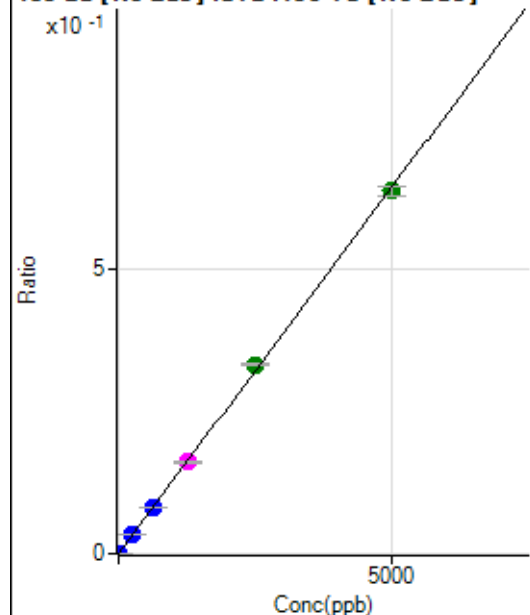
$$DL = 0.0122$$

$$BEC = 0.01067$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 72.22      | 0.0000 | P    | 22.6 |
| 2 | <input type="checkbox"/> | 10.000   | 9.089      | 11360.43   | 0.0012 | P    | 3.2  |
| 3 | <input type="checkbox"/> | 250.000  | 253.083    | 312049.55  | 0.0325 | P    | 2.6  |
| 4 | <input type="checkbox"/> | 625.000  | 629.796    | 764083.57  | 0.0808 | P    | 3.3  |
| 5 | <input type="checkbox"/> | 1250.000 | 1250.757   | 1496225.34 | 0.1604 | M    | 1.7  |
| 6 | <input type="checkbox"/> | 2500.000 | 2585.807   | 3023697.84 | 0.3317 | A    | 0.5  |
| 7 | <input type="checkbox"/> | 5000.000 | 4956.155   | 5766935.47 | 0.6357 | A    | 2.3  |
| 8 | <input type="checkbox"/> |          |            | 3131.51    | 0.0004 | P    | 2.0  |

$$y = 1.2827\text{E-}004 * x + 7.5382\text{E-}006$$

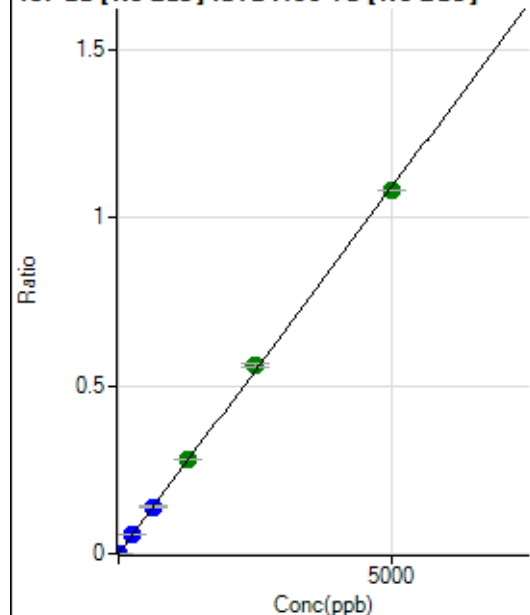
$$R = 0.9998$$

$$DL = 0.03977$$

$$BEC = 0.05877$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det<br>. | RSD |
|---|--------------------------|----------|------------|------------|--------|----------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 92.23      | 0.0000 | P        | 9.4 |
| 2 | <input type="checkbox"/> | 10.000   | 9.337      | 19782.34   | 0.0020 | P        | 2.2 |
| 3 | <input type="checkbox"/> | 250.000  | 258.408    | 541100.86  | 0.0563 | P        | 2.8 |
| 4 | <input type="checkbox"/> | 625.000  | 642.038    | 1322293.69 | 0.1399 | P        | 5.1 |
| 5 | <input type="checkbox"/> | 1250.000 | 1288.666   | 2617642.08 | 0.2808 | A        | 1.4 |
| 6 | <input type="checkbox"/> | 2500.000 | 2572.087   | 5108293.05 | 0.5604 | A        | 1.3 |
| 7 | <input type="checkbox"/> | 5000.000 | 4951.741   | 9786954.58 | 1.0788 | A        | 0.1 |
| 8 | <input type="checkbox"/> |          |            | 5387.80    | 0.0006 | P        | 4.9 |

$$y = 2.1786E-004 * x + 9.6277E-006$$

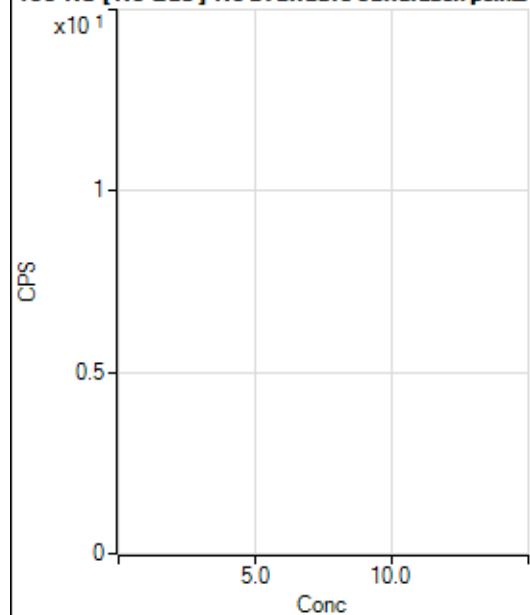
$$R = 0.9998$$

$$DL = 0.01252$$

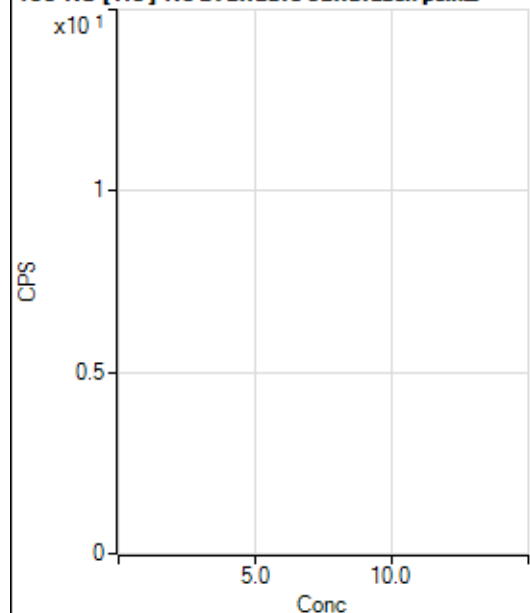
$$BEC = 0.04419$$

Weight: &lt;None&gt;

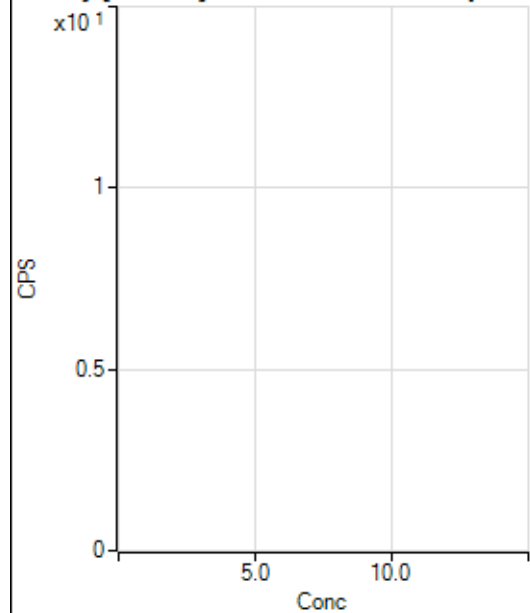
Min Conc: 0

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

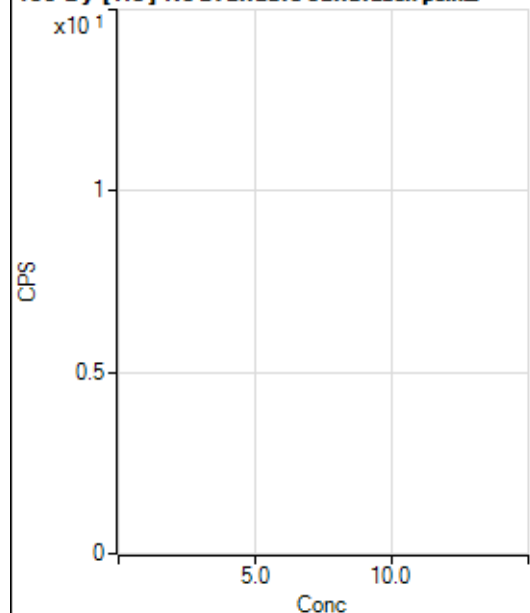
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 12.22  |       | P        | 56.8 |
| 2 | <input type="checkbox"/> |       |            | 14.45  |       | P        | 48.0 |
| 3 | <input type="checkbox"/> |       |            | 38.89  |       | P        | 13.1 |
| 4 | <input type="checkbox"/> |       |            | 75.55  |       | P        | 17.8 |
| 5 | <input type="checkbox"/> |       |            | 111.11 |       | P        | 4.6  |
| 6 | <input type="checkbox"/> |       |            | 146.67 |       | P        | 31.8 |
| 7 | <input type="checkbox"/> |       |            | 333.34 |       | P        | 5.6  |
| 8 | <input type="checkbox"/> |       |            | 187.78 |       | P        | 9.1  |

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

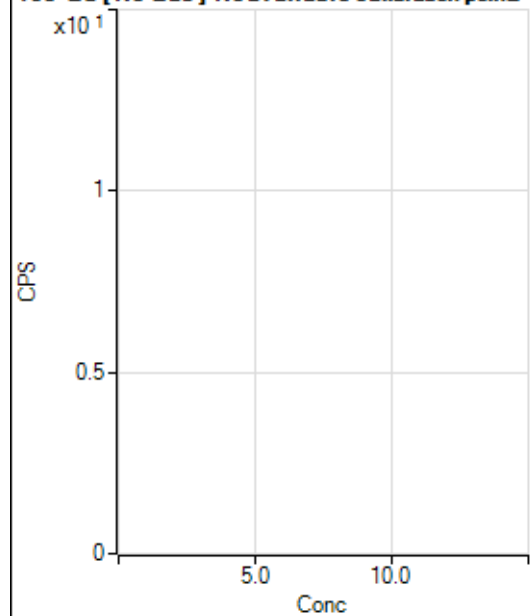
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS   | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|-------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 2.22  |       | P        | 86.6 |
| 2 | <input type="checkbox"/> |       |            | 1.11  |       | P        | 173. |
| 3 | <input type="checkbox"/> |       |            | 4.45  |       | P        | 86.6 |
| 4 | <input type="checkbox"/> |       |            | 6.67  |       | P        | 50.0 |
| 5 | <input type="checkbox"/> |       |            | 12.22 |       | P        | 41.7 |
| 6 | <input type="checkbox"/> |       |            | 22.22 |       | P        | 34.7 |
| 7 | <input type="checkbox"/> |       |            | 45.55 |       | P        | 8.5  |
| 8 | <input type="checkbox"/> |       |            | 73.33 |       | P        | 31.8 |

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

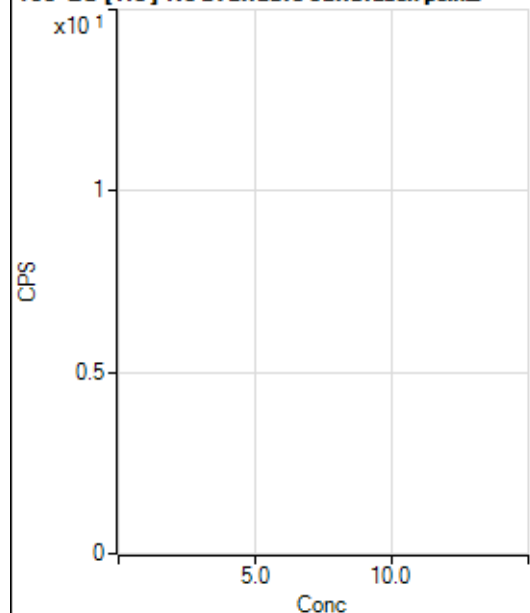
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS     | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|---------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 26.67   |       | P        | 12.5 |
| 2 | <input type="checkbox"/> |       |            | 25.55   |       | P        | 15.1 |
| 3 | <input type="checkbox"/> |       |            | 51.11   |       | P        | 7.5  |
| 4 | <input type="checkbox"/> |       |            | 82.22   |       | P        | 8.4  |
| 5 | <input type="checkbox"/> |       |            | 104.45  |       | P        | 26.8 |
| 6 | <input type="checkbox"/> |       |            | 202.23  |       | P        | 8.5  |
| 7 | <input type="checkbox"/> |       |            | 377.79  |       | P        | 6.7  |
| 8 | <input type="checkbox"/> |       |            | 1112.28 |       | P        | 4.3  |

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

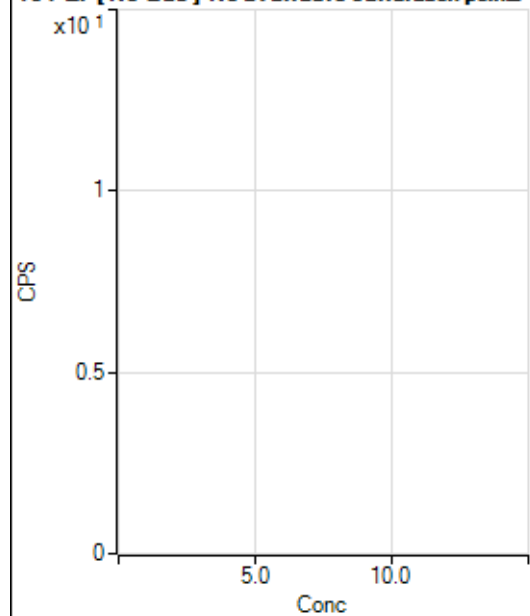
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 1.11   |       | P        | 173. |
| 2 | <input type="checkbox"/> |       |            | 8.89   |       | P        | 57.3 |
| 3 | <input type="checkbox"/> |       |            | 22.22  |       | P        | 37.8 |
| 4 | <input type="checkbox"/> |       |            | 37.78  |       | P        | 35.7 |
| 5 | <input type="checkbox"/> |       |            | 47.78  |       | P        | 10.7 |
| 6 | <input type="checkbox"/> |       |            | 104.45 |       | P        | 19.5 |
| 7 | <input type="checkbox"/> |       |            | 193.34 |       | P        | 10.5 |
| 8 | <input type="checkbox"/> |       |            | 500.02 |       | P        | 7.3  |

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

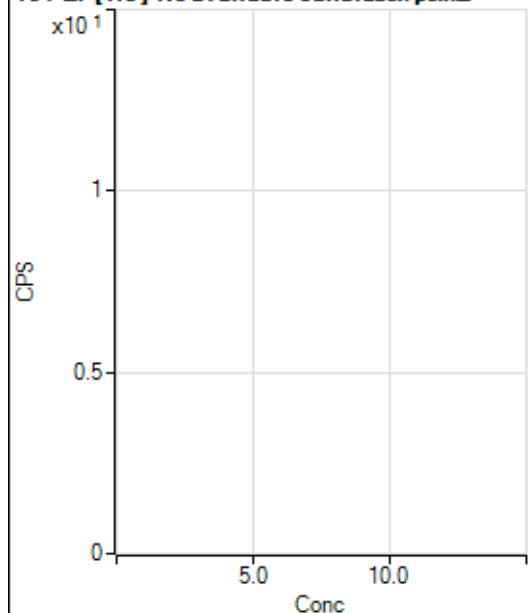
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS     | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|---------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 58.89   |       | P        | 37.7 |
| 2 | <input type="checkbox"/> |       |            | 57.78   |       | P        | 20.3 |
| 3 | <input type="checkbox"/> |       |            | 77.78   |       | P        | 15.0 |
| 4 | <input type="checkbox"/> |       |            | 103.33  |       | P        | 24.4 |
| 5 | <input type="checkbox"/> |       |            | 131.12  |       | P        | 8.2  |
| 6 | <input type="checkbox"/> |       |            | 202.23  |       | P        | 2.5  |
| 7 | <input type="checkbox"/> |       |            | 348.90  |       | P        | 12.9 |
| 8 | <input type="checkbox"/> |       |            | 1280.07 |       | P        | 6.5  |

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

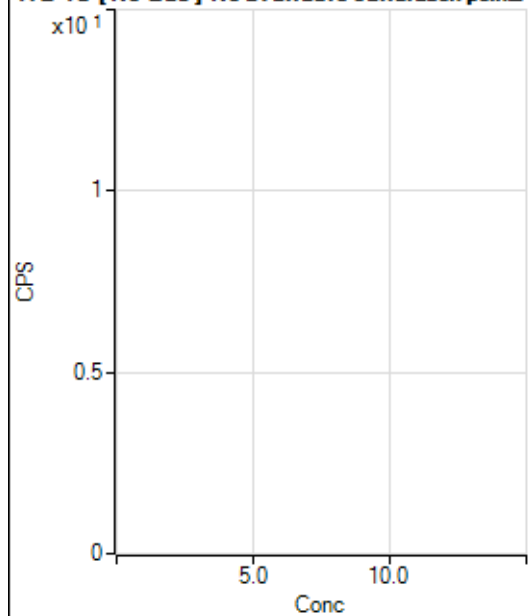
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 152.22 |       | P        | 10.3 |
| 2 | <input type="checkbox"/> |       |            | 132.22 |       | P        | 12.7 |
| 3 | <input type="checkbox"/> |       |            | 137.78 |       | P        | 13.8 |
| 4 | <input type="checkbox"/> |       |            | 136.67 |       | P        | 20.0 |
| 5 | <input type="checkbox"/> |       |            | 147.78 |       | P        | 7.2  |
| 6 | <input type="checkbox"/> |       |            | 201.11 |       | P        | 11.0 |
| 7 | <input type="checkbox"/> |       |            | 262.23 |       | P        | 5.1  |
| 8 | <input type="checkbox"/> |       |            | 750.03 |       | P        | 7.0  |

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

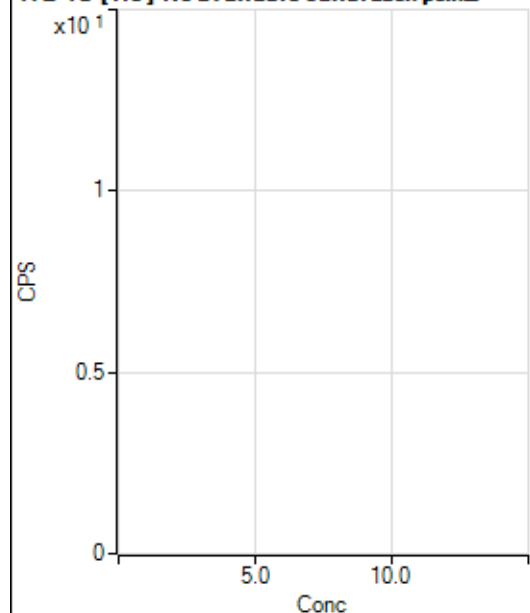
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 80.00  |       | P        | 20.8 |
| 2 | <input type="checkbox"/> |       |            | 80.00  |       | P        | 19.1 |
| 3 | <input type="checkbox"/> |       |            | 57.78  |       | P        | 6.7  |
| 4 | <input type="checkbox"/> |       |            | 73.33  |       | P        | 27.7 |
| 5 | <input type="checkbox"/> |       |            | 85.55  |       | P        | 8.1  |
| 6 | <input type="checkbox"/> |       |            | 106.67 |       | P        | 9.4  |
| 7 | <input type="checkbox"/> |       |            | 144.45 |       | P        | 9.3  |
| 8 | <input type="checkbox"/> |       |            | 196.67 |       | P        | 16.7 |

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

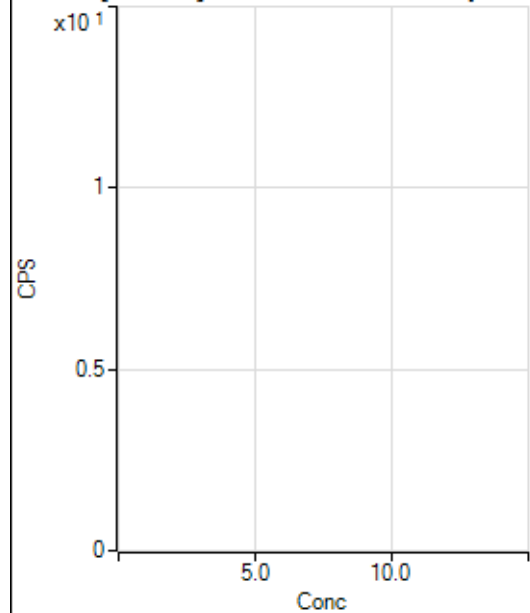
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS   | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|-------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 30.00 |       | P        | 11.1 |
| 2 | <input type="checkbox"/> |       |            | 23.33 |       | P        | 37.8 |
| 3 | <input type="checkbox"/> |       |            | 22.22 |       | P        | 22.9 |
| 4 | <input type="checkbox"/> |       |            | 26.67 |       | P        | 21.7 |
| 5 | <input type="checkbox"/> |       |            | 30.00 |       | P        | 38.5 |
| 6 | <input type="checkbox"/> |       |            | 52.22 |       | P        | 36.9 |
| 7 | <input type="checkbox"/> |       |            | 65.56 |       | P        | 37.5 |
| 8 | <input type="checkbox"/> |       |            | 84.44 |       | P        | 14.9 |

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

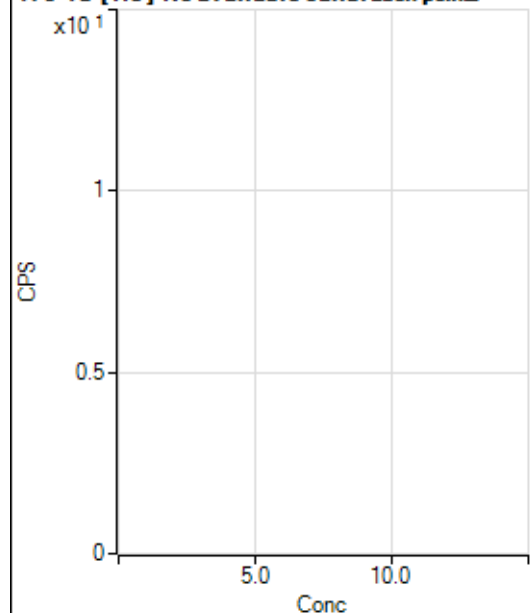
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 72.22  |       | P        | 17.5 |
| 2 | <input type="checkbox"/> |       |            | 67.78  |       | P        | 17.3 |
| 3 | <input type="checkbox"/> |       |            | 87.78  |       | P        | 21.6 |
| 4 | <input type="checkbox"/> |       |            | 77.78  |       | P        | 2.5  |
| 5 | <input type="checkbox"/> |       |            | 110.00 |       | P        | 18.9 |
| 6 | <input type="checkbox"/> |       |            | 153.34 |       | P        | 11.5 |
| 7 | <input type="checkbox"/> |       |            | 208.89 |       | P        | 15.2 |
| 8 | <input type="checkbox"/> |       |            | 167.78 |       | P        | 14.1 |

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

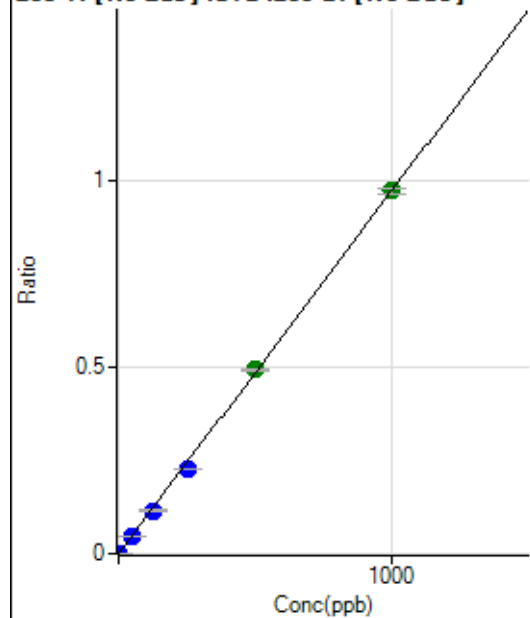
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 23.33  |       | P        | 14.3 |
| 2 | <input type="checkbox"/> |       |            | 23.33  |       | P        | 28.6 |
| 3 | <input type="checkbox"/> |       |            | 30.00  |       | P        | 0.0  |
| 4 | <input type="checkbox"/> |       |            | 34.44  |       | P        | 22.3 |
| 5 | <input type="checkbox"/> |       |            | 47.78  |       | P        | 4.0  |
| 6 | <input type="checkbox"/> |       |            | 66.67  |       | P        | 35.0 |
| 7 | <input type="checkbox"/> |       |            | 106.67 |       | P        | 9.4  |
| 8 | <input type="checkbox"/> |       |            | 72.22  |       | P        | 30.7 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS      | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|----------|-------|----------|-----|
| 1 | <input type="checkbox"/> |       |            | 968.93   |       | P        | 3.4 |
| 2 | <input type="checkbox"/> |       |            | 1062.28  |       | P        | 7.1 |
| 3 | <input type="checkbox"/> |       |            | 2342.45  |       | P        | 0.5 |
| 4 | <input type="checkbox"/> |       |            | 4252.96  |       | P        | 0.7 |
| 5 | <input type="checkbox"/> |       |            | 7145.33  |       | P        | 2.3 |
| 6 | <input type="checkbox"/> |       |            | 13481.42 |       | P        | 1.3 |
| 7 | <input type="checkbox"/> |       |            | 25670.59 |       | P        | 1.6 |
| 8 | <input type="checkbox"/> |       |            | 1052.28  |       | P        | 4.6 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS      | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|----------|-------|----------|-----|
| 1 | <input type="checkbox"/> |       |            | 11958.82 |       | P        | 1.0 |
| 2 | <input type="checkbox"/> |       |            | 11694.20 |       | P        | 8.7 |
| 3 | <input type="checkbox"/> |       |            | 12626.15 |       | P        | 2.2 |
| 4 | <input type="checkbox"/> |       |            | 12817.45 |       | P        | 2.7 |
| 5 | <input type="checkbox"/> |       |            | 13587.11 |       | P        | 0.5 |
| 6 | <input type="checkbox"/> |       |            | 15739.47 |       | P        | 1.2 |
| 7 | <input type="checkbox"/> |       |            | 20763.09 |       | P        | 1.1 |
| 8 | <input type="checkbox"/> |       |            | 11294.91 |       | P        | 1.8 |

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 90.00      | 0.0000 | P        | 19.9 |
| 2 | <input type="checkbox"/> | 1.000    | 0.838      | 5713.54    | 0.0008 | P        | 0.6  |
| 3 | <input type="checkbox"/> | 50.000   | 47.214     | 312752.87  | 0.0460 | P        | 1.9  |
| 4 | <input type="checkbox"/> | 125.000  | 118.910    | 768925.67  | 0.1158 | P        | 5.2  |
| 5 | <input type="checkbox"/> | 250.000  | 233.438    | 1495455.79 | 0.2273 | P        | 0.4  |
| 6 | <input type="checkbox"/> | 500.000  | 508.155    | 3151898.46 | 0.4949 | A        | 1.3  |
| 7 | <input type="checkbox"/> | 1000.000 | 1000.964   | 6070203.52 | 0.9748 | A        | 1.5  |
| 8 | <input type="checkbox"/> |          |            | 2251.33    | 0.0004 | P        | 5.0  |

$$y = 9.7381\text{E-}004 * x + 1.3567\text{E-}005$$

$$R = 0.9998$$

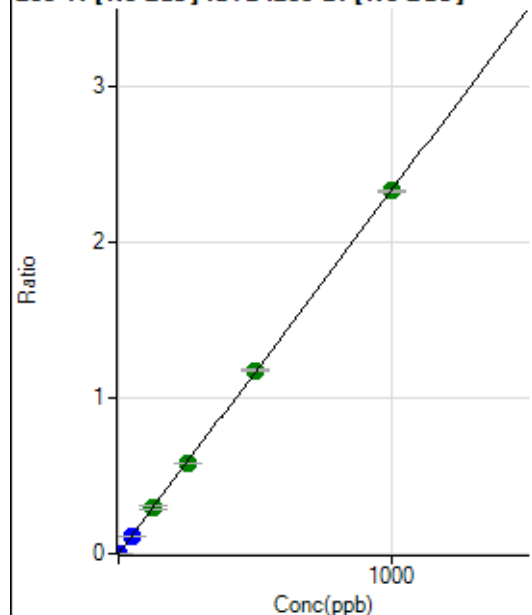
$$DL = 0.008324$$

$$BEC = 0.01393$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD |
|---|--------------------------|----------|------------|-------------|--------|------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 226.67      | 0.0000 | P    | 4.6 |
| 2 | <input type="checkbox"/> | 1.000    | 0.843      | 13780.76    | 0.0020 | P    | 2.5 |
| 3 | <input type="checkbox"/> | 50.000   | 47.232     | 750029.51   | 0.1103 | P    | 2.4 |
| 4 | <input type="checkbox"/> | 125.000  | 126.856    | 1966252.56  | 0.2962 | A    | 5.7 |
| 5 | <input type="checkbox"/> | 250.000  | 248.323    | 3813855.64  | 0.5798 | A    | 1.5 |
| 6 | <input type="checkbox"/> | 500.000  | 503.631    | 7488778.22  | 1.1758 | A    | 1.0 |
| 7 | <input type="checkbox"/> | 1000.000 | 998.510    | 14516823.53 | 2.3311 | A    | 0.4 |
| 8 | <input type="checkbox"/> |          |            | 5297.80     | 0.0009 | P    | 4.0 |

$$y = 0.0023 * x + 3.4112E-005$$

$$R = 1.0000$$

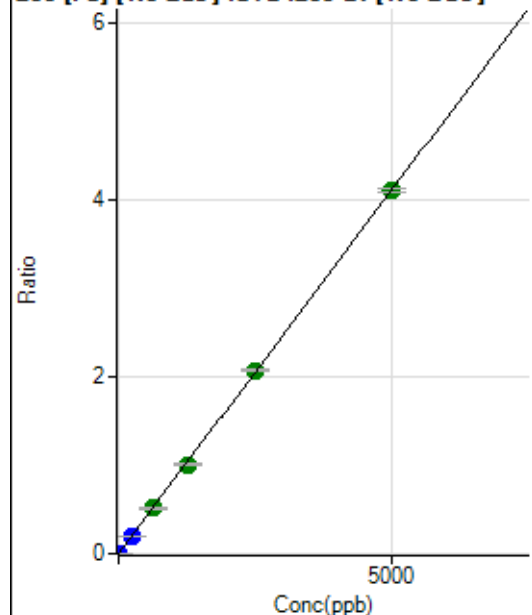
$$DL = 0.002023$$

$$BEC = 0.01461$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 262.23      | 0.0000 | P    | 18.4 |
| 2 | <input type="checkbox"/> | 1.000    | 0.794      | 4758.70     | 0.0007 | P    | 0.6  |
| 3 | <input type="checkbox"/> | 250.000  | 234.456    | 1307810.01  | 0.1923 | P    | 1.7  |
| 4 | <input type="checkbox"/> | 625.000  | 625.246    | 3403700.30  | 0.5128 | A    | 6.3  |
| 5 | <input type="checkbox"/> | 1250.000 | 1230.456   | 6638411.71  | 1.0091 | A    | 0.8  |
| 6 | <input type="checkbox"/> | 2500.000 | 2524.709   | 13187318.83 | 2.0705 | A    | 1.5  |
| 7 | <input type="checkbox"/> | 5000.000 | 4993.278   | 25501259.90 | 4.0950 | A    | 1.0  |
| 8 | <input type="checkbox"/> |          |            | 12793.08    | 0.0022 | P    | 2.6  |

$$y = 8.2009E-004 * x + 3.9479E-005$$

$$R = 1.0000$$

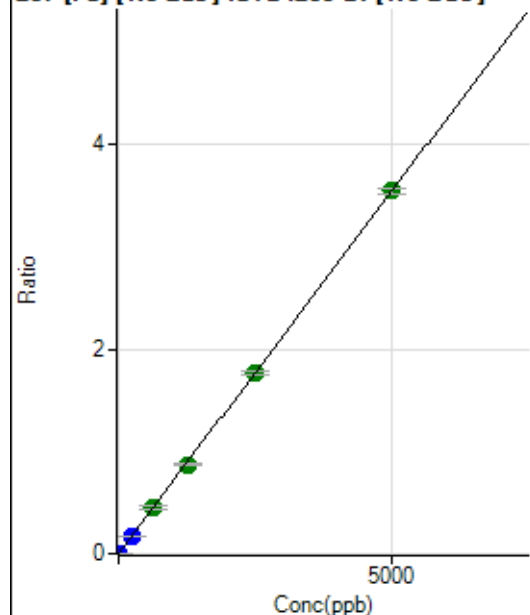
$$DL = 0.02658$$

$$BEC = 0.04814$$

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<br>. | RSD |
|---|--------------------------|----------|------------|-------------|--------|----------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 183.33      | 0.0000 | P        | 7.2 |
| 2 | <input type="checkbox"/> | 1.000    | 0.829      | 4234.07     | 0.0006 | P        | 3.4 |
| 3 | <input type="checkbox"/> | 250.000  | 235.325    | 1134040.75  | 0.1668 | P        | 2.5 |
| 4 | <input type="checkbox"/> | 625.000  | 633.228    | 2978469.19  | 0.4487 | A        | 6.1 |
| 5 | <input type="checkbox"/> | 1250.000 | 1233.117   | 5747755.33  | 0.8738 | A        | 2.1 |
| 6 | <input type="checkbox"/> | 2500.000 | 2489.349   | 11234664.14 | 1.7639 | A        | 1.9 |
| 7 | <input type="checkbox"/> | 5000.000 | 5009.251   | 22103637.45 | 3.5494 | A        | 1.4 |
| 8 | <input type="checkbox"/> |          |            | 10918.02    | 0.0019 | P        | 4.2 |

$$y = 7.0857E-004 * x + 2.7600E-005$$

$$R = 1.0000$$

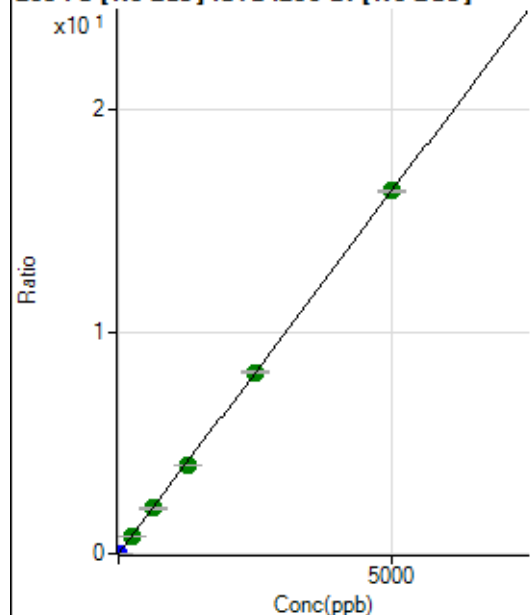
$$DL = 0.008383$$

$$BEC = 0.03895$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio   | Det<br>. | RSD |
|---|--------------------------|----------|------------|-------------|---------|----------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 961.13      | 0.0001  | P        | 5.5 |
| 2 | <input type="checkbox"/> | 1.000    | 0.807      | 19134.60    | 0.0028  | P        | 1.5 |
| 3 | <input type="checkbox"/> | 250.000  | 243.121    | 5399335.99  | 0.7940  | A        | 2.4 |
| 4 | <input type="checkbox"/> | 625.000  | 625.303    | 13555928.82 | 2.0420  | A        | 5.7 |
| 5 | <input type="checkbox"/> | 1250.000 | 1224.000   | 26291928.91 | 3.9969  | A        | 1.4 |
| 6 | <input type="checkbox"/> | 2500.000 | 2502.500   | 52047495.89 | 8.1717  | A        | 1.0 |
| 7 | <input type="checkbox"/> | 5000.000 | 5005.556   | 101787963.2 | 16.3451 | A        | 0.5 |
| 8 | <input type="checkbox"/> |          |            | 49982.31    | 0.0087  | P        | 2.5 |

$$y = 0.0033 * x + 1.4469E-004$$

$$R = 1.0000$$

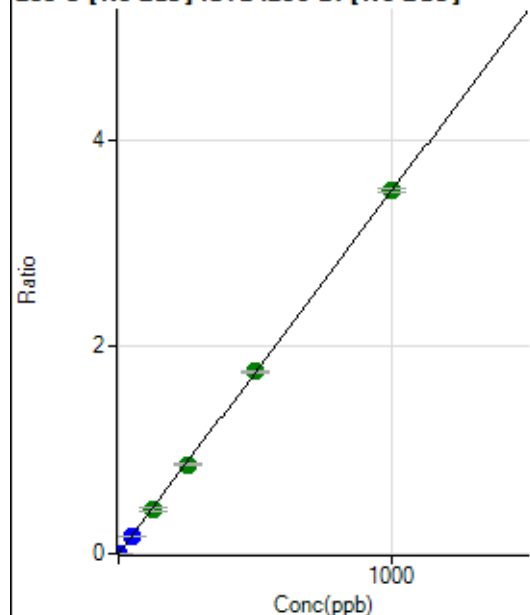
$$DL = 0.007311$$

$$BEC = 0.04431$$

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      | 76.67       | 0.0000 | P    | 27.5 |
| 2 | <input type="checkbox"/> | 1.000    | 0.811      | 19629.73    | 0.0029 | P    | 1.2  |
| 3 | <input type="checkbox"/> | 50.000   | 45.489     | 1083659.59  | 0.1593 | P    | 1.3  |
| 4 | <input type="checkbox"/> | 125.000  | 121.911    | 2835853.78  | 0.4270 | A    | 4.6  |
| 5 | <input type="checkbox"/> | 250.000  | 245.006    | 5644905.75  | 0.8582 | A    | 1.5  |
| 6 | <input type="checkbox"/> | 500.000  | 502.532    | 11211267.68 | 1.7602 | A    | 0.6  |
| 7 | <input type="checkbox"/> | 1000.000 | 1000.595   | 21825949.95 | 3.5048 | A    | 0.9  |
| 8 | <input type="checkbox"/> |          |            | 5706.90     | 0.0010 | P    | 7.5  |

$$y = 0.0035 * x + 1.1565E-005$$

$$R = 1.0000$$

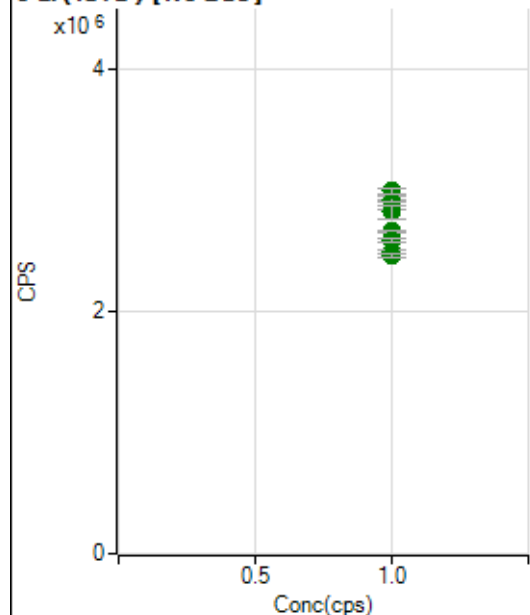
$$DL = 0.002722$$

$$BEC = 0.003302$$

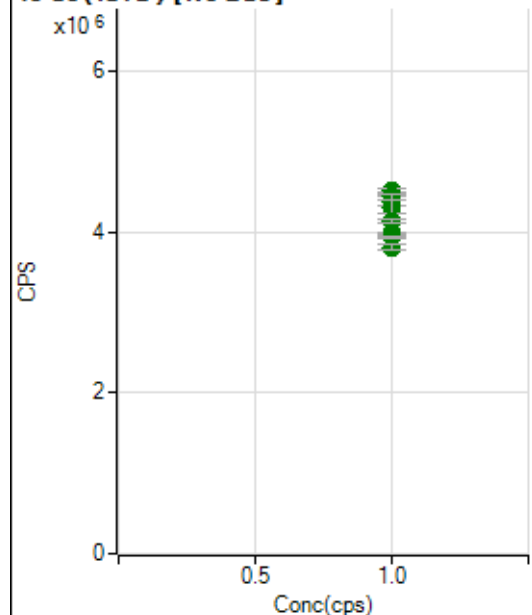
Weight: &lt;None&gt;

Min Conc: 0

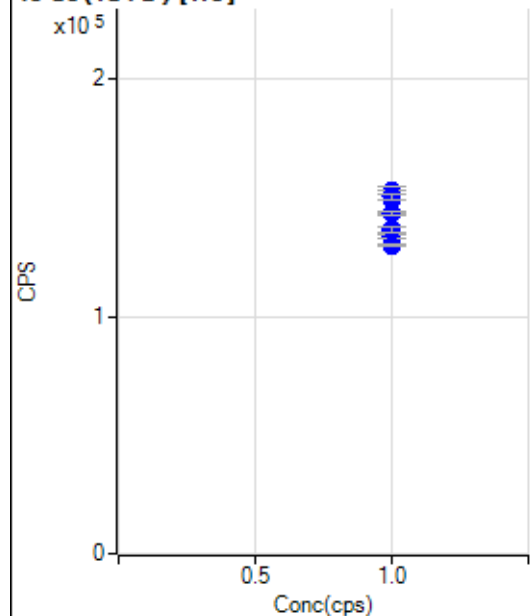
6 Li (ISTD) [No Gas]



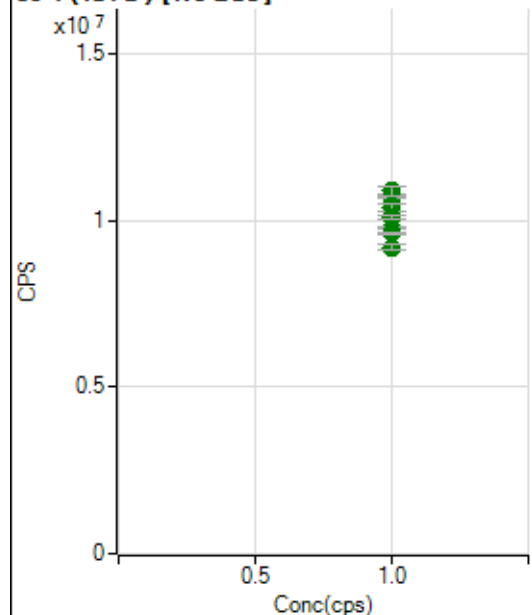
|   | R <sub>j</sub><br>ct     | Conc. | Calc Conc. | CPS        | Ratio | Det. | RSD |
|---|--------------------------|-------|------------|------------|-------|------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 2873116.07 |       | A    | 2.8 |
| 2 | <input type="checkbox"/> | 1.000 |            | 2922490.69 |       | A    | 1.4 |
| 3 | <input type="checkbox"/> | 1.000 |            | 2989748.19 |       | A    | 1.4 |
| 4 | <input type="checkbox"/> | 1.000 |            | 2813363.68 |       | A    | 4.2 |
| 5 | <input type="checkbox"/> | 1.000 |            | 2660583.13 |       | A    | 0.6 |
| 6 | <input type="checkbox"/> | 1.000 |            | 2584603.20 |       | A    | 1.0 |
| 7 | <input type="checkbox"/> | 1.000 |            | 2483426.58 |       | A    | 1.2 |
| 8 | <input type="checkbox"/> | 1.000 |            | 2450196.00 |       | A    | 1.4 |

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

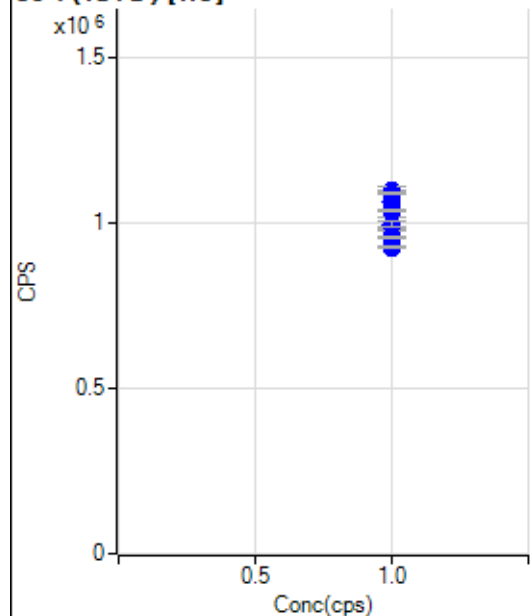
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 4385907.99 |       | A        | 3.0 |
| 2 | <input type="checkbox"/> | 1.000 |            | 4513768.82 |       | A        | 1.0 |
| 3 | <input type="checkbox"/> | 1.000 |            | 4442407.02 |       | A        | 1.9 |
| 4 | <input type="checkbox"/> | 1.000 |            | 4311439.73 |       | A        | 3.7 |
| 5 | <input type="checkbox"/> | 1.000 |            | 4136890.08 |       | A        | 0.9 |
| 6 | <input type="checkbox"/> | 1.000 |            | 3984632.16 |       | A        | 0.5 |
| 7 | <input type="checkbox"/> | 1.000 |            | 3940974.87 |       | A        | 0.8 |
| 8 | <input type="checkbox"/> | 1.000 |            | 3810503.48 |       | A        | 2.2 |

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

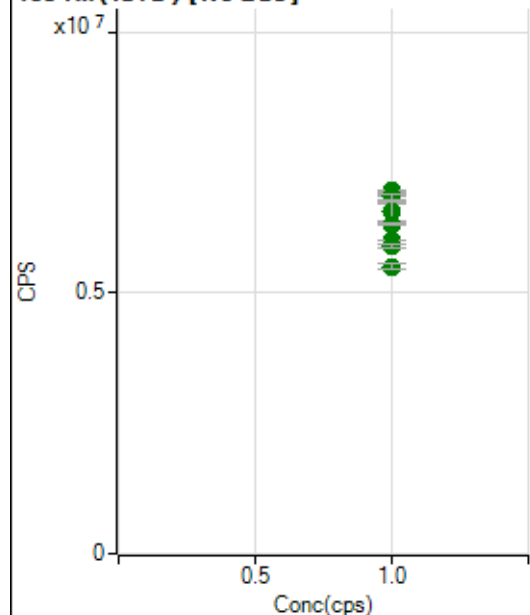
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS       | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-----------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 152900.34 |       | P        | 0.1 |
| 2 | <input type="checkbox"/> | 1.000 |            | 149208.83 |       | P        | 7.6 |
| 3 | <input type="checkbox"/> | 1.000 |            | 150391.12 |       | P        | 1.3 |
| 4 | <input type="checkbox"/> | 1.000 |            | 143539.59 |       | P        | 1.5 |
| 5 | <input type="checkbox"/> | 1.000 |            | 136364.48 |       | P        | 1.6 |
| 6 | <input type="checkbox"/> | 1.000 |            | 133693.60 |       | P        | 1.0 |
| 7 | <input type="checkbox"/> | 1.000 |            | 129988.02 |       | P        | 1.0 |
| 8 | <input type="checkbox"/> | 1.000 |            | 136569.72 |       | P        | 2.0 |

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

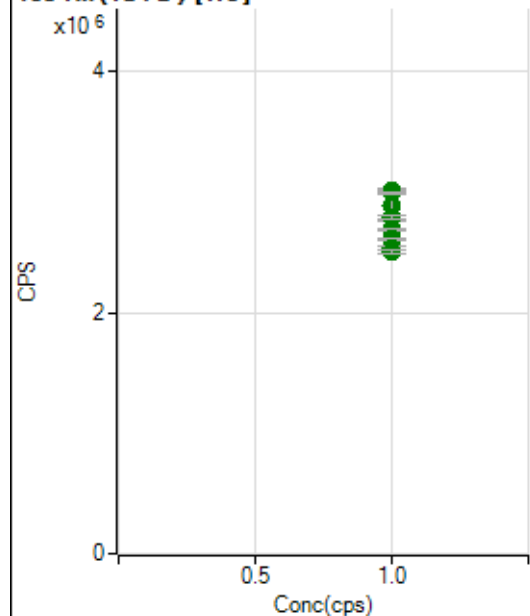
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 10655226.85 |       | A        | 2.4 |
| 2 | <input type="checkbox"/> | 1.000 |            | 10702095.12 |       | A        | 0.4 |
| 3 | <input type="checkbox"/> | 1.000 |            | 10885315.12 |       | A        | 2.5 |
| 4 | <input type="checkbox"/> | 1.000 |            | 10398554.50 |       | A        | 2.3 |
| 5 | <input type="checkbox"/> | 1.000 |            | 10099608.32 |       | A        | 0.8 |
| 6 | <input type="checkbox"/> | 1.000 |            | 9775678.68  |       | A        | 0.8 |
| 7 | <input type="checkbox"/> | 1.000 |            | 9620873.88  |       | A        | 0.8 |
| 8 | <input type="checkbox"/> | 1.000 |            | 9176278.20  |       | A        | 1.9 |

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

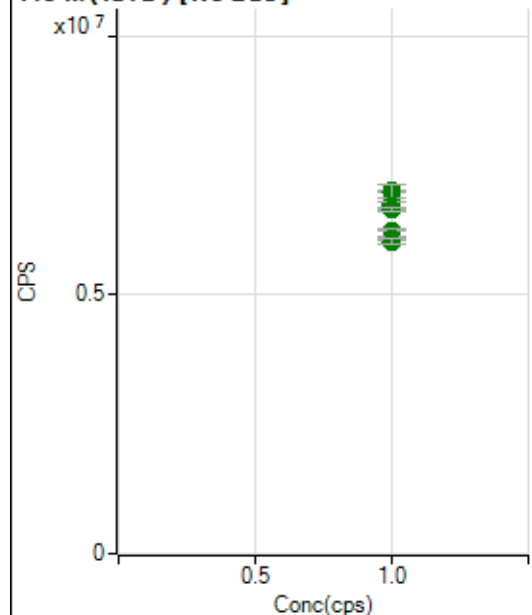
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 1097723.87 |       | P        | 0.8 |
| 2 | <input type="checkbox"/> | 1.000 |            | 1064849.28 |       | P        | 9.0 |
| 3 | <input type="checkbox"/> | 1.000 |            | 1090184.64 |       | P        | 0.9 |
| 4 | <input type="checkbox"/> | 1.000 |            | 1036581.13 |       | P        | 0.6 |
| 5 | <input type="checkbox"/> | 1.000 |            | 982549.34  |       | P        | 0.5 |
| 6 | <input type="checkbox"/> | 1.000 |            | 955626.29  |       | P        | 0.8 |
| 7 | <input type="checkbox"/> | 1.000 |            | 925966.94  |       | P        | 0.6 |
| 8 | <input type="checkbox"/> | 1.000 |            | 997379.87  |       | P        | 1.4 |

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

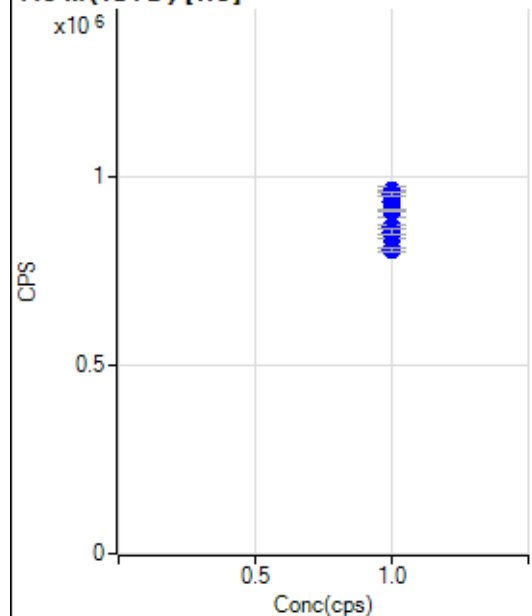
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 6788642.26 |       | A        | 2.4 |
| 2 | <input type="checkbox"/> | 1.000 |            | 6959148.16 |       | A        | 0.8 |
| 3 | <input type="checkbox"/> | 1.000 |            | 6842349.41 |       | A        | 1.5 |
| 4 | <input type="checkbox"/> | 1.000 |            | 6569086.85 |       | A        | 5.3 |
| 5 | <input type="checkbox"/> | 1.000 |            | 6321319.35 |       | A        | 0.8 |
| 6 | <input type="checkbox"/> | 1.000 |            | 6019369.84 |       | A        | 0.3 |
| 7 | <input type="checkbox"/> | 1.000 |            | 5908902.76 |       | A        | 1.3 |
| 8 | <input type="checkbox"/> | 1.000 |            | 5513592.87 |       | A        | 2.5 |

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

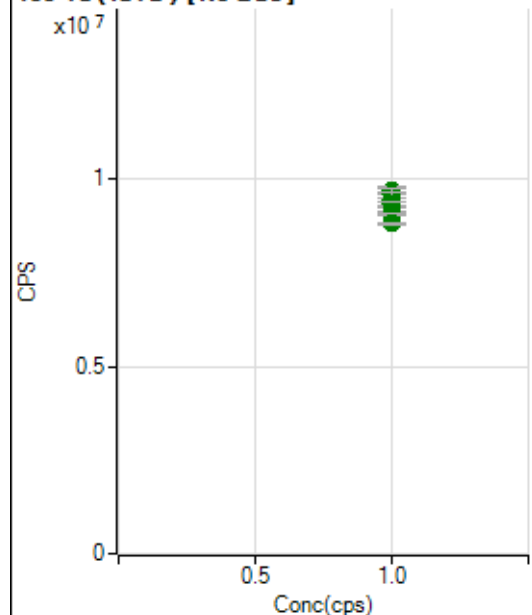
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 3010657.49 |       | A        | 0.1 |
| 2 | <input type="checkbox"/> | 1.000 |            | 2889573.07 |       | A        | 9.4 |
| 3 | <input type="checkbox"/> | 1.000 |            | 2995476.72 |       | A        | 0.8 |
| 4 | <input type="checkbox"/> | 1.000 |            | 2793517.67 |       | A        | 1.0 |
| 5 | <input type="checkbox"/> | 1.000 |            | 2695875.36 |       | A        | 0.5 |
| 6 | <input type="checkbox"/> | 1.000 |            | 2615315.81 |       | A        | 0.5 |
| 7 | <input type="checkbox"/> | 1.000 |            | 2540112.10 |       | A        | 1.0 |
| 8 | <input type="checkbox"/> | 1.000 |            | 2504867.26 |       | A        | 0.9 |

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

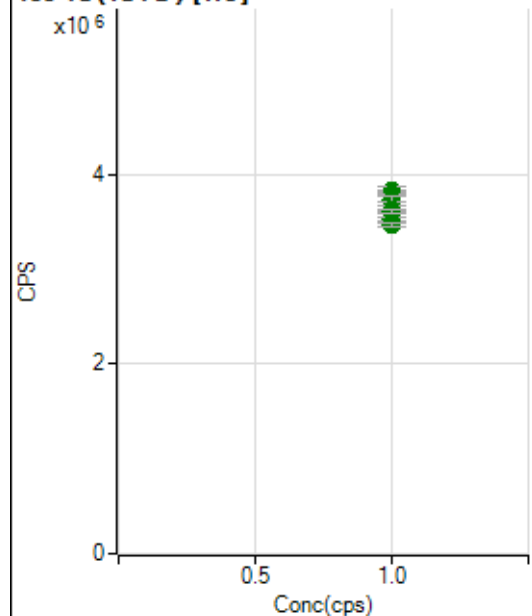
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 6778762.09 |       | A        | 2.5 |
| 2 | <input type="checkbox"/> | 1.000 |            | 7011594.78 |       | A        | 0.4 |
| 3 | <input type="checkbox"/> | 1.000 |            | 7001616.63 |       | A        | 3.7 |
| 4 | <input type="checkbox"/> | 1.000 |            | 6735691.10 |       | A        | 2.3 |
| 5 | <input type="checkbox"/> | 1.000 |            | 6668210.03 |       | A        | 1.2 |
| 6 | <input type="checkbox"/> | 1.000 |            | 6254469.10 |       | A        | 0.4 |
| 7 | <input type="checkbox"/> | 1.000 |            | 6096450.99 |       | A        | 1.4 |
| 8 | <input type="checkbox"/> | 1.000 |            | 6029093.49 |       | A        | 1.6 |

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

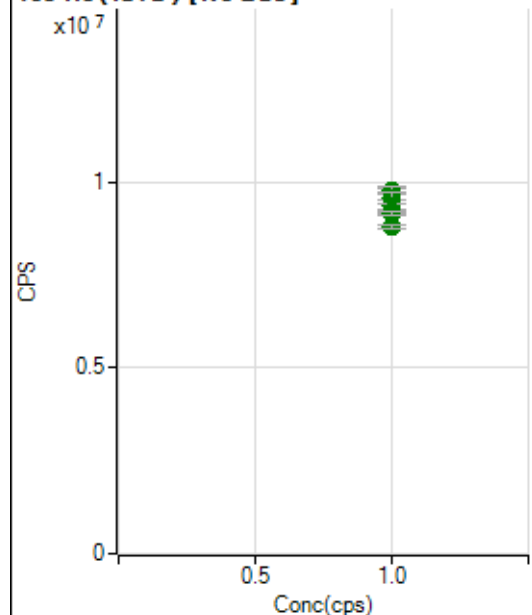
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS       | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-----------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 963718.64 |       | P        | 0.4 |
| 2 | <input type="checkbox"/> | 1.000 |            | 934551.48 |       | P        | 9.2 |
| 3 | <input type="checkbox"/> | 1.000 |            | 954750.32 |       | P        | 1.1 |
| 4 | <input type="checkbox"/> | 1.000 |            | 909337.92 |       | P        | 0.5 |
| 5 | <input type="checkbox"/> | 1.000 |            | 866955.14 |       | P        | 1.0 |
| 6 | <input type="checkbox"/> | 1.000 |            | 836725.41 |       | P        | 0.4 |
| 7 | <input type="checkbox"/> | 1.000 |            | 807294.33 |       | P        | 1.1 |
| 8 | <input type="checkbox"/> | 1.000 |            | 855095.96 |       | P        | 1.7 |

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

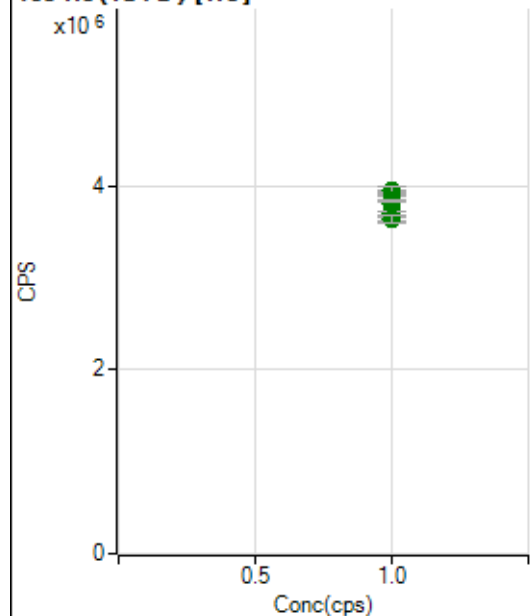
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 9573954.51 |       | A        | 1.3 |
| 2 | <input type="checkbox"/> | 1.000 |            | 9682157.08 |       | A        | 2.1 |
| 3 | <input type="checkbox"/> | 1.000 |            | 9614698.12 |       | A        | 2.7 |
| 4 | <input type="checkbox"/> | 1.000 |            | 9466042.08 |       | A        | 4.1 |
| 5 | <input type="checkbox"/> | 1.000 |            | 9325243.54 |       | A        | 1.9 |
| 6 | <input type="checkbox"/> | 1.000 |            | 9116285.07 |       | A        | 0.4 |
| 7 | <input type="checkbox"/> | 1.000 |            | 9072271.46 |       | A        | 0.6 |
| 8 | <input type="checkbox"/> | 1.000 |            | 8802756.54 |       | A        | 0.8 |

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

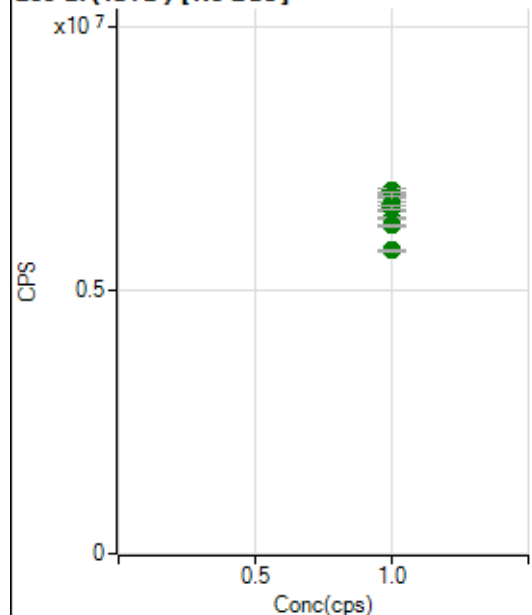
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 3823128.66 |       | A        | 0.6 |
| 2 | <input type="checkbox"/> | 1.000 |            | 3713880.61 |       | A        | 8.9 |
| 3 | <input type="checkbox"/> | 1.000 |            | 3779660.60 |       | A        | 0.9 |
| 4 | <input type="checkbox"/> | 1.000 |            | 3735255.78 |       | A        | 1.4 |
| 5 | <input type="checkbox"/> | 1.000 |            | 3637060.26 |       | A        | 1.4 |
| 6 | <input type="checkbox"/> | 1.000 |            | 3528596.89 |       | A        | 1.4 |
| 7 | <input type="checkbox"/> | 1.000 |            | 3474009.29 |       | A        | 1.2 |
| 8 | <input type="checkbox"/> | 1.000 |            | 3599182.31 |       | A        | 1.2 |

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

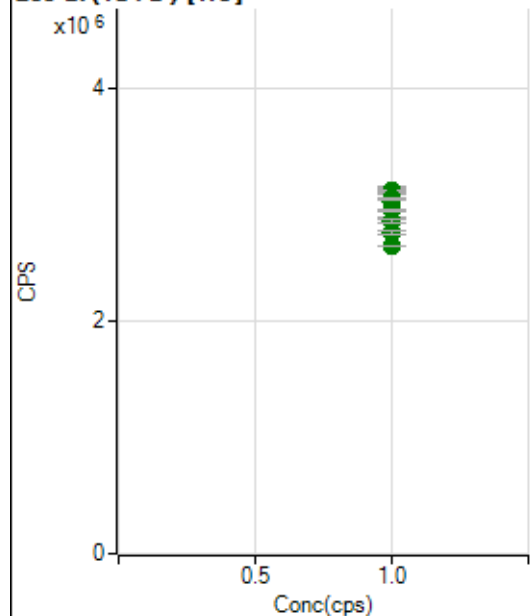
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 9376792.50 |       | A        | 3.1 |
| 2 | <input type="checkbox"/> | 1.000 |            | 9769055.48 |       | A        | 1.0 |
| 3 | <input type="checkbox"/> | 1.000 |            | 9767084.09 |       | A        | 2.2 |
| 4 | <input type="checkbox"/> | 1.000 |            | 9591620.69 |       | A        | 3.2 |
| 5 | <input type="checkbox"/> | 1.000 |            | 9364297.43 |       | A        | 1.6 |
| 6 | <input type="checkbox"/> | 1.000 |            | 9198868.05 |       | A        | 0.8 |
| 7 | <input type="checkbox"/> | 1.000 |            | 9141914.79 |       | A        | 1.1 |
| 8 | <input type="checkbox"/> | 1.000 |            | 8807456.19 |       | A        | 1.1 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 3922630.74 |       | A        | 0.9 |
| 2 | <input type="checkbox"/> | 1.000 |            | 3807915.99 |       | A        | 7.6 |
| 3 | <input type="checkbox"/> | 1.000 |            | 3946951.71 |       | A        | 2.4 |
| 4 | <input type="checkbox"/> | 1.000 |            | 3847451.36 |       | A        | 0.5 |
| 5 | <input type="checkbox"/> | 1.000 |            | 3703662.16 |       | A        | 0.6 |
| 6 | <input type="checkbox"/> | 1.000 |            | 3632454.15 |       | A        | 1.4 |
| 7 | <input type="checkbox"/> | 1.000 |            | 3633359.32 |       | A        | 1.3 |
| 8 | <input type="checkbox"/> | 1.000 |            | 3648025.67 |       | A        | 2.4 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 6645779.83 |       | A        | 1.5 |
| 2 | <input type="checkbox"/> | 1.000 |            | 6886966.98 |       | A        | 1.3 |
| 3 | <input type="checkbox"/> | 1.000 |            | 6801407.12 |       | A        | 1.3 |
| 4 | <input type="checkbox"/> | 1.000 |            | 6649428.37 |       | A        | 4.3 |
| 5 | <input type="checkbox"/> | 1.000 |            | 6578181.71 |       | A        | 0.9 |
| 6 | <input type="checkbox"/> | 1.000 |            | 6369132.54 |       | A        | 0.3 |
| 7 | <input type="checkbox"/> | 1.000 |            | 6227473.31 |       | A        | 0.1 |
| 8 | <input type="checkbox"/> | 1.000 |            | 5751666.30 |       | A        | 0.5 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 3119504.50 |       | A        | 1.7 |
| 2 | <input type="checkbox"/> | 1.000 |            | 3024048.84 |       | A        | 9.1 |
| 3 | <input type="checkbox"/> | 1.000 |            | 3119721.31 |       | A        | 0.3 |
| 4 | <input type="checkbox"/> | 1.000 |            | 3053418.74 |       | A        | 0.5 |
| 5 | <input type="checkbox"/> | 1.000 |            | 2956892.11 |       | A        | 0.5 |
| 6 | <input type="checkbox"/> | 1.000 |            | 2862730.79 |       | A        | 1.4 |
| 7 | <input type="checkbox"/> | 1.000 |            | 2761256.59 |       | A        | 1.3 |
| 8 | <input type="checkbox"/> | 1.000 |            | 2650433.63 |       | A        | 0.2 |

# US EPA Tune Check Report

Operator Name Jaswal  
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8121323-MS.b  
Acq. Date-Time 2023-12-13 12:41:46  
Report Comment ---  
Instrument Name G8403A SG19224459

[No Gas]

## Sensitivity

| Mass | Conc. [ug/l] | Count  | CPS        | Resp (Required) [cps/ug/l] | Resp (Flag) | RSD%   | RSD% (Required) |
|------|--------------|--------|------------|----------------------------|-------------|--------|-----------------|
| 9    |              | 9607   | 96070.03   |                            |             | 0.795  | 5.000           |
| 24   |              | 69036  | 690361.10  |                            |             | 1.589  | 5.000           |
| 25   |              | 9119   | 91194.26   |                            |             | 0.679  | 5.000           |
| 26   |              | 10637  | 106371.82  |                            |             | 1.444  | 5.000           |
| 59   |              | 66663  | 666626.50  |                            |             | 0.732  | 5.000           |
| 113  |              | 8194   | 81944.64   |                            |             | 0.897  | 5.000           |
| 115  |              | 104274 | 1042740.80 |                            |             | 1.146  | 5.000           |
| 206  |              | 30153  | 301528.67  |                            |             | 1.186  | 5.000           |
| 207  |              | 27018  | 270178.22  |                            |             | 1.502  | 5.000           |
| 208  |              | 65875  | 658747.71  |                            |             | 0.934  | 5.000           |
| 220  |              | 0      | 1.20       |                            |             | 91.287 |                 |

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

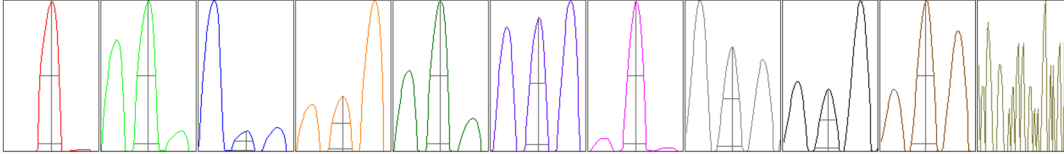
| Mass | Rep#1 Count | Rep#2 Count | Rep#3 Count | Rep#4 Count | Rep#5 Count |
|------|-------------|-------------|-------------|-------------|-------------|
| 9    | 9565        | 9656        | 9492        | 9670        | 9653        |
| 24   | 69663       | 70384       | 67919       | 67904       | 69310       |
| 25   | 9034        | 9176        | 9107        | 9096        | 9184        |
| 26   | 10434       | 10723       | 10542       | 10659       | 10827       |
| 59   | 65920       | 67069       | 66411       | 66943       | 66969       |
| 113  | 8100        | 8301        | 8212        | 8165        | 8194        |
| 115  | 103985      | 103643      | 105804      | 102806      | 105131      |
| 206  | 29563       | 30371       | 30416       | 30065       | 30350       |
| 207  | 26380       | 27401       | 27184       | 26869       | 27254       |
| 208  | 64814       | 66209       | 66255       | 65856       | 66239       |

# US EPA Tune Check Report

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

Integration Time [sec] 0.1

## Resolution/Axis



| Mass | Peak Height | Axis   | Axis (Required) | Axis (Flag) |
|------|-------------|--------|-----------------|-------------|
| 9    | 17513.32    | 9.05   | 8.90 - 9.10     |             |
| 24   | 126909.30   | 24.00  | 23.90 - 24.10   |             |
| 25   | 16678.50    | 25.05  | 24.90 - 25.10   |             |
| 26   | 19411.73    | 26.00  | 25.90 - 26.10   |             |
| 59   | 127676.94   | 59.00  | 58.90 - 59.10   |             |
| 113  | 16809.37    | 113.05 | 112.90 - 113.10 |             |
| 115  | 213777.77   | 115.05 | 114.90 - 115.10 |             |
| 206  | 59315.83    | 206.00 | 205.90 - 206.10 |             |
| 207  | 52834.35    | 206.95 | 206.90 - 207.10 |             |
| 208  | 127889.15   | 207.95 | 207.90 - 208.10 |             |
| 220  | 0.00        | 219.85 | -               |             |

| Mass | W-50% | W-5%  | W-5% (Required) | W-5% (Flag) |
|------|-------|-------|-----------------|-------------|
| 9    | 0.59  | 0.737 | 0.900           |             |
| 24   | 0.57  | 0.779 | 0.900           |             |
| 25   | 0.58  | 0.737 | 0.900           |             |
| 26   | 0.58  | 0.741 | 0.900           |             |
| 59   | 0.55  | 0.730 | 0.900           |             |
| 113  | 0.50  | 0.730 | 0.900           |             |
| 115  | 0.50  | 0.729 | 0.900           |             |
| 206  | 0.51  | 0.779 | 0.900           |             |
| 207  | 0.52  | 0.777 | 0.900           |             |
| 208  | 0.53  | 0.808 | 0.900           |             |
| 220  | 0.30  | 0.300 |                 |             |

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

## Tune Parameters

### Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.85 L/min Dilution Gas 0.40 L/min

# US EPA Tune Check Report

|              |        |                |          |               |            |
|--------------|--------|----------------|----------|---------------|------------|
| 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  | -6.0 V   | Omega Lens    | 11.0 V | Deflect    | 14.6 V |
| Extract 2  | -245.0 V | Cell Entrance | -30 V  | Plate Bias | -50 V  |
| Omega Bias | -120 V   | Cell Exit     | -50 V  |            |        |

## Cell Parameters

|         |            |              |        |                       |       |
|---------|------------|--------------|--------|-----------------------|-------|
| Use Gas | No         | 3rd Gas Flow | ---    | Energy Discrimination | 4.0 V |
| He Flow | 0.0 mL/min | OctP Bias    | -8.0 V |                       |       |
| H2 Flow | ---        | OctP RF      | 150 V  |                       |       |

## QP Parameters

|             |     |             |        |         |        |
|-------------|-----|-------------|--------|---------|--------|
| Mass Gain   | 123 | Axis Gain   | 0.9992 | QP Bias | -4.0 V |
| Mass Offset | 125 | Axis Offset | 0.01   |         |        |

## Hardware Settings

### Torch

|         |        |         |         |
|---------|--------|---------|---------|
| Torch H | 1.3 mm | Torch V | -1.1 mm |
|---------|--------|---------|---------|

### EM

|               |        |           |        |          |        |
|---------------|--------|-----------|--------|----------|--------|
| Discriminator | 4.6 mV | Analog HV | 2305 V | Pulse HV | 1658 V |
|---------------|--------|-----------|--------|----------|--------|

[He]

## Sensitivity

| Mass | Conc. [ug/l] | Count | CPS       | Resp (Required) [cps/ug/l] | Resp (Flag) | RSD%  | RSD% (Required) |
|------|--------------|-------|-----------|----------------------------|-------------|-------|-----------------|
| 59   |              | 14909 | 149088.89 |                            |             | 3.484 |                 |
| 89   |              | 10365 | 103648.52 |                            |             | 3.671 |                 |
| 205  |              | 20157 | 201568.48 |                            |             | 3.104 |                 |

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

| Mass | Rep#1 Count | Rep#2 Count | Rep#3 Count | Rep#4 Count | Rep#5 Count |
|------|-------------|-------------|-------------|-------------|-------------|
| 59   | 15164       | 15237       | 15000       | 13992       | 15151       |
| 89   | 10525       | 10613       | 10517       | 9690        | 10480       |
| 205  | 20487       | 20545       | 20393       | 19049       | 20311       |

Integration Time [sec] 0.1

## Tune Parameters

### Plasma Parameters

|              |        |                |            |               |            |
|--------------|--------|----------------|------------|---------------|------------|
| Plasma Mode  | ---    | Nebulizer Gas  | 0.85 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 | -6.0 V | Omega Lens | 11.0 V | Deflect | 3.4 V |
|-----------|--------|------------|--------|---------|-------|

# US EPA Tune Check Report

|                          |            |               |         |                       |         |
|--------------------------|------------|---------------|---------|-----------------------|---------|
| Extract 2                | -245.0 V   | Cell Entrance | -50 V   | Plate Bias            | -60 V   |
| Omega Bias               | -120 V     | Cell Exit     | -70 V   |                       |         |
| <b>Cell Parameters</b>   |            |               |         |                       |         |
| Use Gas                  | Yes        | 3rd Gas Flow  | ---     | Energy Discrimination | 5.0 V   |
| He Flow                  | 4.5 mL/min | OctP Bias     | -18.0 V |                       |         |
| H2 Flow                  | ---        | OctP RF       | 200 V   |                       |         |
| <b>QP Parameters</b>     |            |               |         |                       |         |
| Mass Gain                | 123        | Axis Gain     | 0.9992  | QP Bias               | -13.0 V |
| Mass Offset              | 125        | Axis Offset   | 0.01    |                       |         |
| <b>Hardware Settings</b> |            |               |         |                       |         |
| <b>Torch</b>             |            |               |         |                       |         |
| Torch H                  | 1.3 mm     | Torch V       | -1.1 mm |                       |         |
| <b>EM</b>                |            |               |         |                       |         |
| Discriminator            | 4.6 mV     | Analog HV     | 2305 V  | Pulse HV              | 1658 V  |