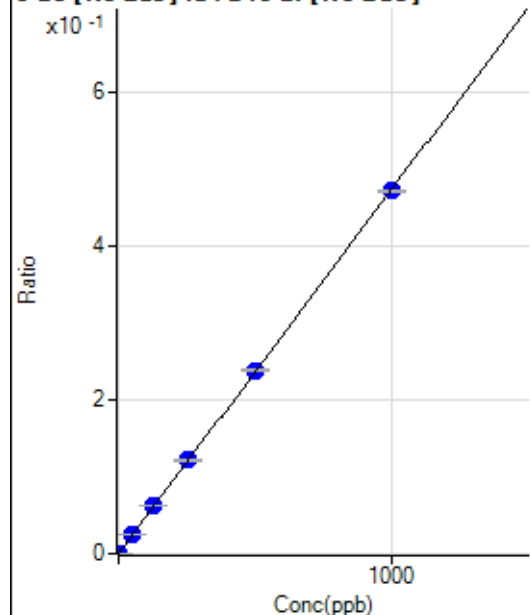


Batch Folder: D:\ICP-MS Data\P7121517-MS.b\
Analysis File: P7121517-MS.batch.bin
DA Date-Time: 2017-12-15 18:13:20
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2017-12-15 11:54:02
2			
3	005CALS.d	S02	2017-12-15 12:02:05
4	006CALS.d	S03	2017-12-15 12:05:57
5	007CALS.d	S04	2017-12-15 12:09:49
6	008CALS.d	S05	2017-12-15 12:13:41
7	009CALS.d	S06	2017-12-15 12:17:29
8	010CALS.d	S07	2017-12-15 12:21:16
9	011CALS.d	S08	2017-12-15 12:25:01

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	140.74	0.0000	P	31.3
2	☐	0.100					
3	☐	1.000	0.960	1705.70	0.0005	P	6.8
4	☐	50.000	52.246	84029.67	0.0248	P	1.3
5	☐	125.000	130.032	206608.33	0.0616	P	0.9
6	☐	250.000	256.238	397651.67	0.1213	P	1.8
7	☐	500.000	502.356	763240.35	0.2378	P	1.0
8	☐	1000.000	996.521	1459452.39	0.4716	P	0.4
9	☐			2472.49	0.0008	P	8.7

$$y = 4.7321\text{E-}004 * x + 4.0392\text{E-}005$$

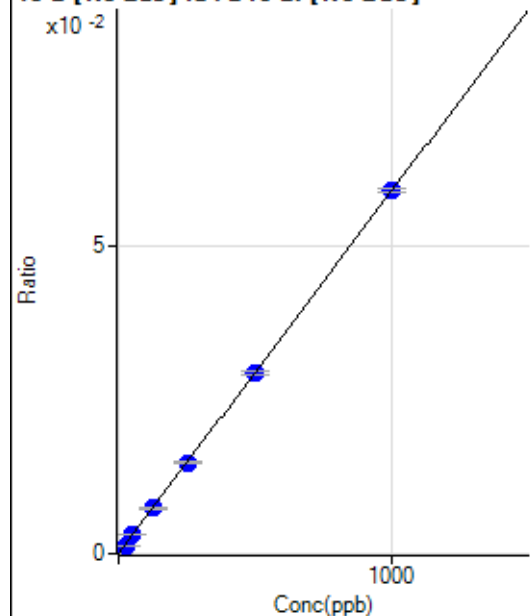
$$R = 1.0000$$

$$DL = 0.0801$$

$$BEC = 0.08536$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	138.90	0.0000	P	22.0
2	☐	2.500					
3	☐	25.000	20.532	4300.79	0.0012	P	3.4
4	☐	50.000	50.217	10159.35	0.0030	P	1.5
5	☐	125.000	125.793	24957.47	0.0074	P	4.0
6	☐	250.000	249.575	48258.36	0.0147	P	1.6
7	☐	500.000	499.190	94382.49	0.0294	P	1.9
8	☐	1000.000	1000.513	182240.98	0.0589	P	0.9
9	☐			6357.14	0.0022	P	10.1

$$y = 5.8819\text{E-}005 * x + 3.9873\text{E-}005$$

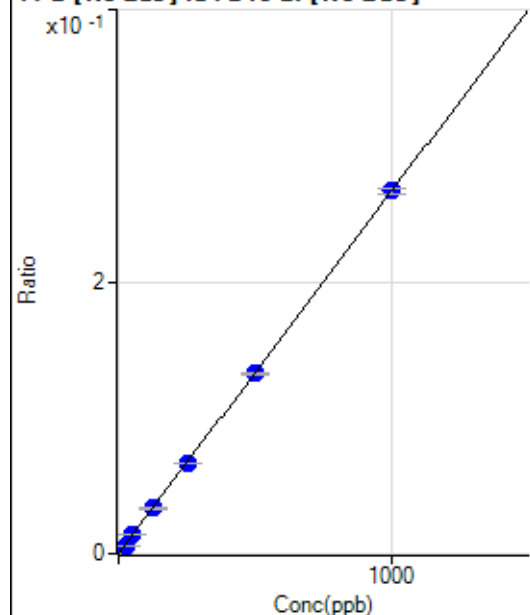
$$R = 1.0000$$

$$DL = 0.4479$$

$$BEC = 0.6779$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	600.04	0.0002	P	7.0
2	☐	2.500					
3	☐	25.000	21.173	20030.57	0.0058	P	3.8
4	☐	50.000	50.043	45806.31	0.0135	P	0.5
5	☐	125.000	124.235	111584.45	0.0333	P	1.2
6	☐	250.000	249.216	218136.33	0.0665	P	1.6
7	☐	500.000	498.109	426351.86	0.1328	P	1.1
8	☐	1000.000	1001.331	825656.67	0.2668	P	1.7
9	☐			27528.82	0.0094	P	8.8

$$y = 2.6628\text{E-}004 * x + 1.7242\text{E-}004$$

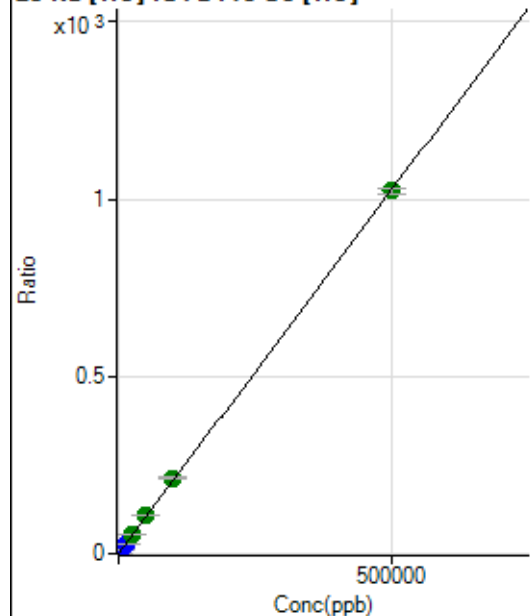
$$R = 1.0000$$

$$DL = 0.1365$$

$$BEC = 0.6475$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	25015.98	0.2020	P	0.8
2	☐	50.000					
3	☐	500.000	453.138	139027.71	1.1314	P	1.6
4	☐	5000.000	5222.333	1338788.92	10.9124	P	1.1
5	☐	12500.000	13283.205	3267167.87	27.4444	P	3.8
6	☐	25000.000	26284.430	6268484.38	54.1084	A	2.0
7	☐	50000.000	52315.934	12126534.30	107.4961	A	0.9
8	☐	100000.00	104354.73	23296055.90	214.2218	A	2.8
9	☐	500000.00	498811.48	111454069.1	1,023.208	A	1.3

$$y = 0.0021 * x + 0.2020$$

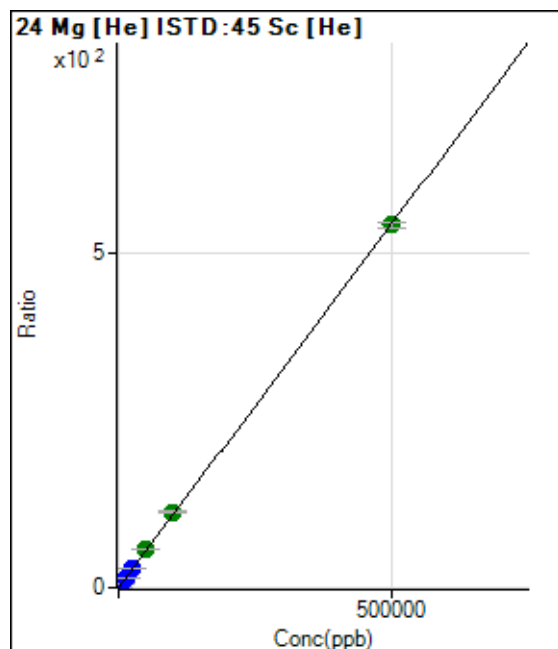
$$R = 1.0000$$

$$DL = 2.352$$

$$BEC = 98.51$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	10876.57	0.0879	P	10.9
2	☐	50.000					
3	☐	500.000	441.074	69528.40	0.5658	P	2.0
4	☐	5000.000	5169.154	697914.39	5.6887	P	1.2
5	☐	12500.000	13091.848	1699140.95	14.2729	P	3.8
6	☐	25000.000	26173.711	3295463.70	28.4471	P	2.3
7	☐	50000.000	52114.902	6379779.66	56.5543	A	1.1
8	☐	100000.00	104071.33	12272689.60	112.8491	A	2.5
9	☐	500000.00	498899.12	58890224.93	540.6445	A	1.3

$$y = 0.0011 * x + 0.0879$$

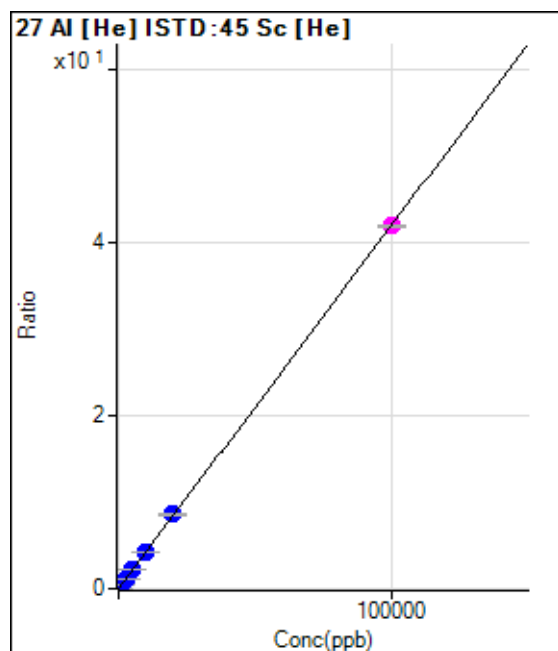
$$R = 1.0000$$

$$DL = 26.56$$

$$BEC = 81.12$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	8.33	0.0001	P	100.
2	☐	2.000					
3	☐	20.000	20.203	1050.08	0.0086	P	10.6
4	☐	1000.000	1043.956	53808.80	0.4386	P	2.0
5	☐	2500.000	2599.633	129974.91	1.0922	P	5.3
6	☐	5000.000	5158.743	251052.99	2.1672	P	2.6
7	☐	10000.000	10263.320	486396.88	4.3116	P	0.7
8	☐	20000.000	20583.849	940409.71	8.6472	P	2.6
9	☐	100000.00	99846.030	4569131.52	41.9448	M	0.7

$$y = 4.2009E-004 * x + 6.7505E-005$$

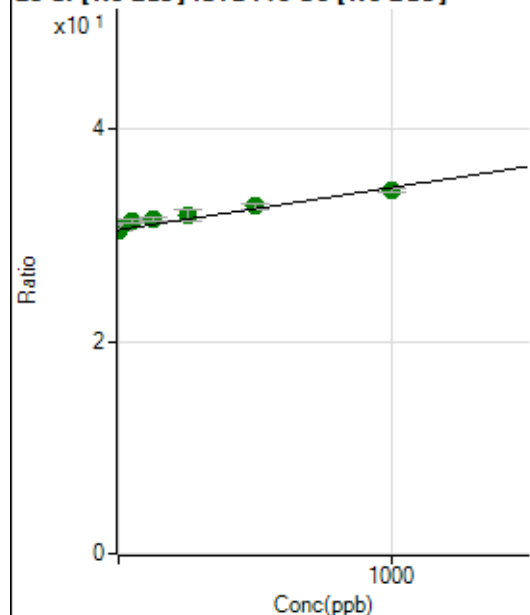
$$R = 1.0000$$

$$DL = 0.4848$$

$$BEC = 0.1607$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	94953944.48	30.5074	A	1.0
2	☐	1.000					
3	☐	10.000	79.378	95160863.93	30.8238	A	0.9
4	☐	50.000	189.522	93931026.40	31.2628	A	1.2
5	☐	125.000	260.914	94235200.02	31.5473	A	0.9
6	☐	250.000	359.513	92857322.91	31.9402	A	3.4
7	☐	500.000	557.214	93983253.49	32.7282	A	1.5
8	☐	1000.000	919.355	96024177.84	34.1714	A	0.9
9	☐			92424613.87	34.1335	A	0.6

$$y = 0.0040 * x + 30.5074$$

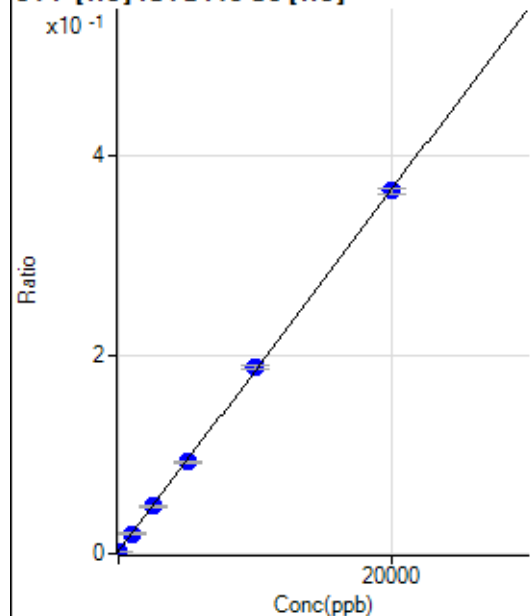
$$R = 0.9829$$

$$DL = 236$$

$$BEC = 7655$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-7.855	261.13	0.0021	P	24.0
2	☐	0.000					
3	☐	0.000	7.855	294.46	0.0024	P	4.7
4	☐	1000.000	956.062	2411.42	0.0197	P	9.5
5	☐	2500.000	2484.526	5656.83	0.0475	P	2.8
6	☐	5000.000	4938.121	10682.02	0.0922	P	0.8
7	☐	10000.000	10186.806	21182.36	0.1878	P	1.7
8	☐	20000.000	19926.198	39717.67	0.3652	P	1.9
9	☐			283.35	0.0026	P	19.6

$$y = 1.8213E-005 * x + 0.0023$$

$$R = 0.9999$$

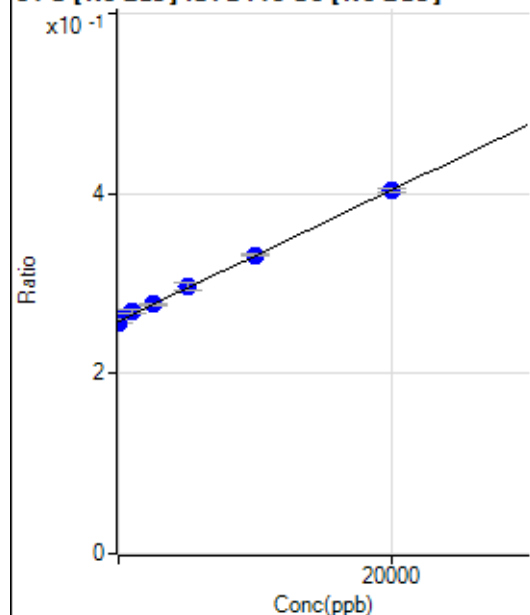
$$DL = 51.07$$

$$BEC = 123.6$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-319.580	797494.48	0.2562	P	0.6
2	☐	0.000					
3	☐	0.000	319.580	805398.09	0.2609	P	0.7
4	☐	1000.000	1416.465	807797.67	0.2689	P	1.7
5	☐	2500.000	2575.351	828362.55	0.2773	P	0.9
6	☐	5000.000	5315.888	864322.35	0.2973	P	3.1
7	☐	10000.000	10073.579	953286.97	0.3319	P	0.9
8	☐	20000.000	19853.997	1133037.90	0.4032	P	1.2
9	☐			768066.68	0.2837	P	1.1

$$y = 7.2865E-006 * x + 0.2585$$

$$R = 0.9994$$

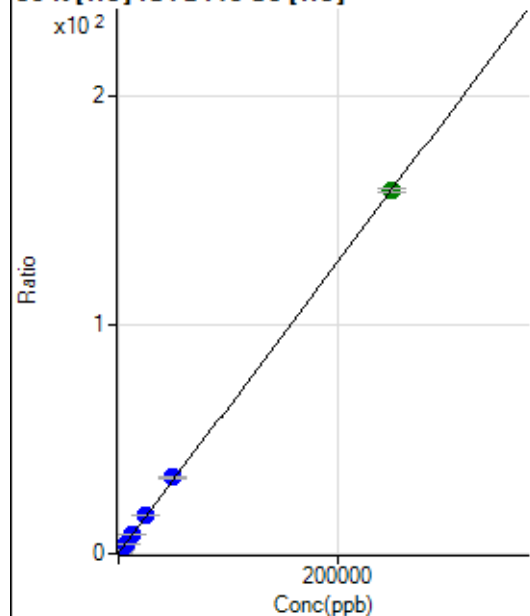
$$DL = 689.6$$

$$BEC = 3.548E+04$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	26630.31	0.2151	P	2.8
2	☐	50.000					
3	☐	500.000	441.473	60814.21	0.4949	P	1.9
4	☐	2500.000	2597.063	228334.91	1.8611	P	0.6
5	☐	6250.000	6518.457	517415.73	4.3464	P	3.9
6	☐	12500.000	13008.225	980008.76	8.4595	P	2.2
7	☐	25000.000	25851.238	1872576.82	16.5992	P	0.7
8	☐	50000.000	52020.511	3608977.86	33.1849	P	2.5
9	☐	250000.00	249477.79	17246458.03	158.3304	A	1.2

$$y = 6.3379E-004 * x + 0.2151$$

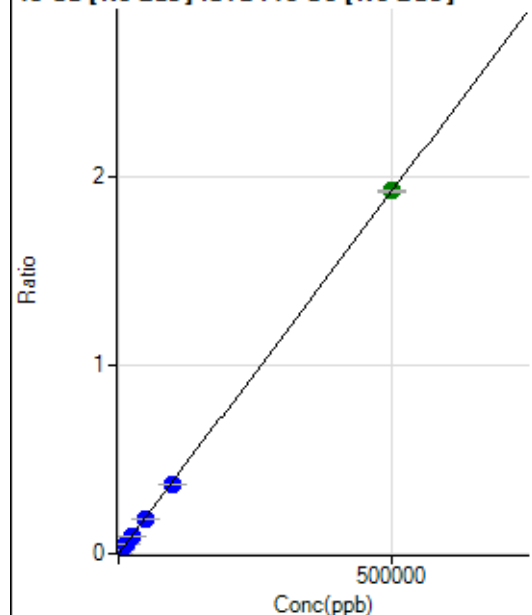
$$R = 1.0000$$

$$DL = 28.45$$

$$BEC = 339.4$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	177.79	0.0001	P	22.6
2	☐	50.000					
3	☐	500.000	414.835	5106.66	0.0017	P	1.0
4	☐	5000.000	4959.226	57532.26	0.0191	P	0.7
5	☐	12500.000	12155.948	139945.38	0.0469	P	1.3
6	☐	25000.000	24455.605	273864.66	0.0942	P	3.2
7	☐	50000.000	48196.260	532953.13	0.1856	P	1.2
8	☐	100000.00	95725.675	1035647.44	0.3686	P	0.9
9	☐	500000.00	501071.55	5222993.09	1.9289	A	0.7

$$y = 3.8495E-006 * x + 5.7168E-005$$

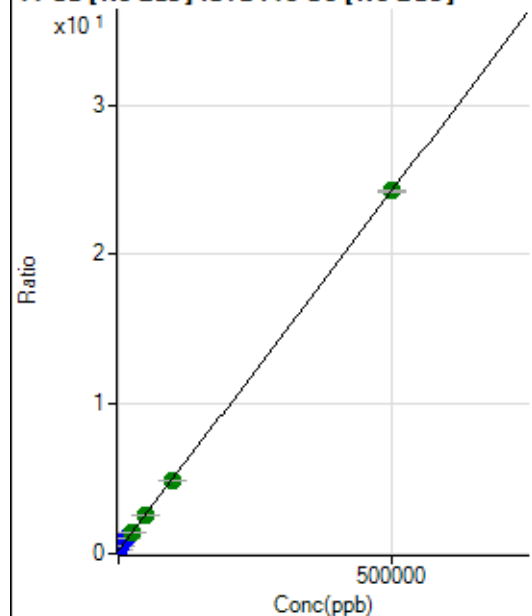
$$R = 1.0000$$

$$DL = 10.09$$

$$BEC = 14.85$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	673162.47	0.2163	P	0.8
2	☐	50.000					
3	☐	500.000	443.021	733395.80	0.2376	P	0.4
4	☐	5000.000	6497.978	1587394.10	0.5283	P	1.3
5	☐	12500.000	16170.406	2965717.23	0.9928	P	0.9
6	☐	25000.000	25258.785	4155609.25	1.4293	A	3.0
7	☐	50000.000	48944.141	7371046.61	2.5668	A	1.2
8	☐	100000.00	97194.418	13724228.09	4.8839	A	0.8
9	☐	500000.00	500547.08	65675187.58	24.2546	A	0.5

$$y = 4.8024E-005 * x + 0.2163$$

$$R = 0.9999$$

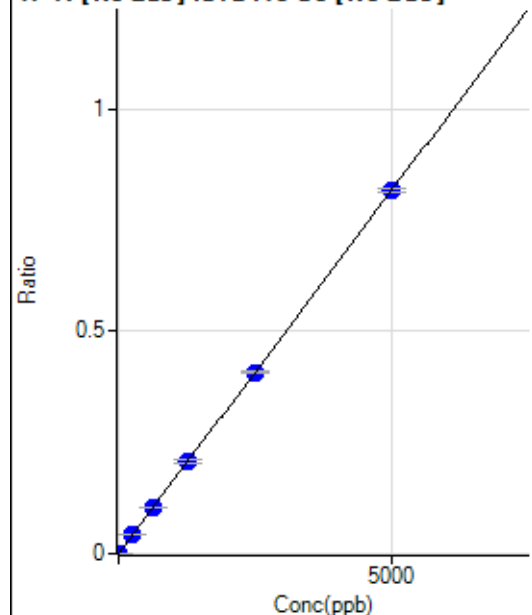
$$DL = 111.5$$

$$BEC = 4503$$

Weight: <None>

Min Conc: 0

47 Ti [No Gas] ISTD:45 Sc [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	572.26	0.0002	P	8.0
2	☐	0.500					
3	☐	5.000	4.225	2697.59	0.0009	P	6.4
4	☐	250.000	255.053	125681.77	0.0418	P	0.8
5	☐	625.000	629.239	307453.07	0.1029	P	0.4
6	☐	1250.000	1267.297	602162.46	0.2071	P	2.8
7	☐	2500.000	2497.202	1171423.33	0.4079	P	1.3
8	☐	5000.000	4996.293	2292895.23	0.8160	P	0.9
9	☐			1252.88	0.0005	P	3.2

$$y = 1.6328\text{E-}004 * x + 1.8391\text{E-}004$$

$$R = 1.0000$$

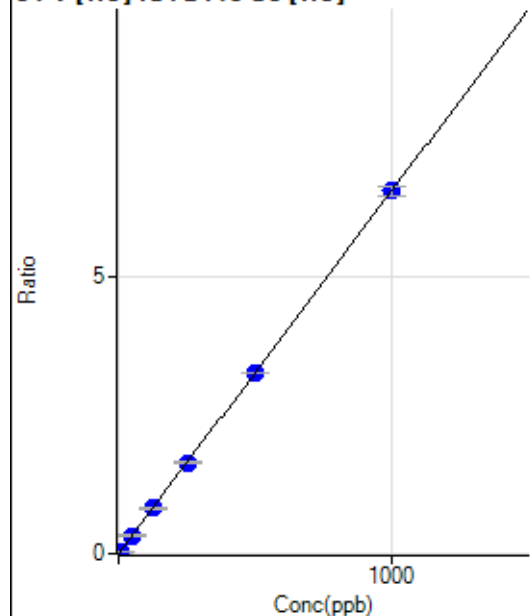
$$DL = 0.2709$$

$$BEC = 1.126$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	11.11	0.0001	P	69.2
2	☐	0.500					
3	☐	5.000	4.325	3490.46	0.0284	P	1.7
4	☐	50.000	50.017	40181.43	0.3275	P	1.5
5	☐	125.000	125.629	97921.04	0.8225	P	3.8
6	☐	250.000	251.545	190763.59	1.6469	P	3.0
7	☐	500.000	498.002	367800.16	3.2603	P	0.6
8	☐	1000.000	1000.537	712327.05	6.5502	P	2.7
9	☐			140.00	0.0013	P	16.8

$$y = 0.0065 * x + 8.9733\text{E-}005$$

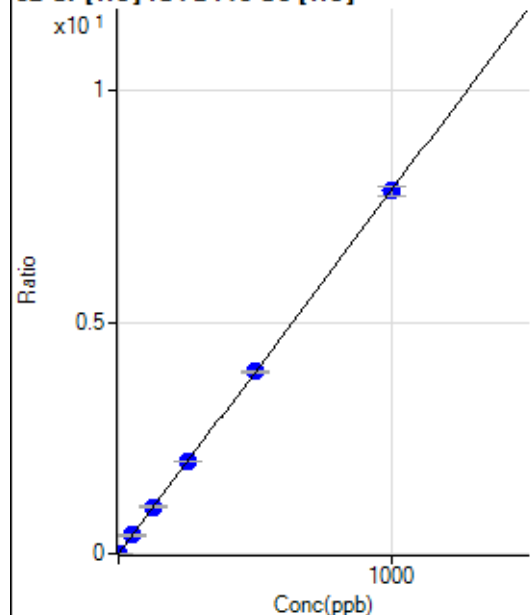
$$R = 1.0000$$

$$DL = 0.02846$$

$$BEC = 0.01371$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	113.34	0.0009	P	7.0
2	☐	0.200					
3	☐	2.000	1.901	1944.60	0.0158	P	3.1
4	☐	50.000	50.579	48791.75	0.3977	P	2.0
5	☐	125.000	127.495	119180.05	1.0012	P	4.1
6	☐	250.000	253.475	230506.87	1.9895	P	1.5
7	☐	500.000	500.934	443444.49	3.9310	P	1.2
8	☐	1000.000	998.324	851876.56	7.8332	P	2.6
9	☐			7297.46	0.0670	P	1.8

$$y = 0.0078 * x + 9.1495E-004$$

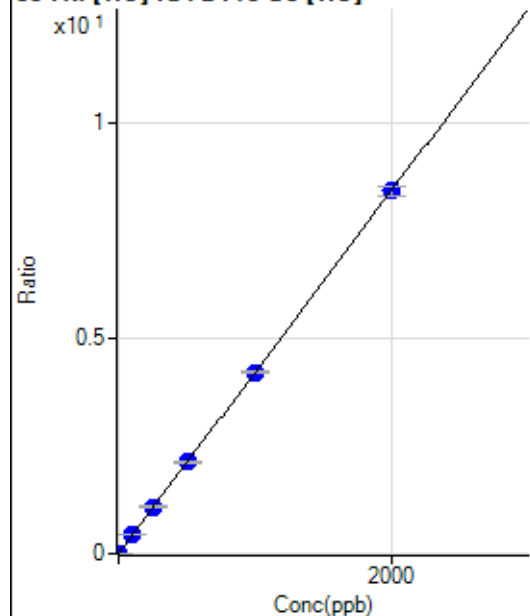
$$R = 1.0000$$

$$DL = 0.02451$$

$$BEC = 0.1166$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	118.89	0.0010	P	10.5
2	☐	0.100					
3	☐	1.000	0.791	526.69	0.0043	P	6.1
4	☐	100.000	101.545	52528.01	0.4281	P	0.6
5	☐	250.000	254.837	127716.92	1.0730	P	4.4
6	☐	500.000	505.129	246281.38	2.1259	P	2.0
7	☐	1000.000	998.861	474126.18	4.2028	P	0.7
8	☐	2000.000	1998.606	914451.22	8.4085	P	2.4
9	☐			2277.99	0.0209	P	4.4

$$y = 0.0042 * x + 9.5961E-004$$

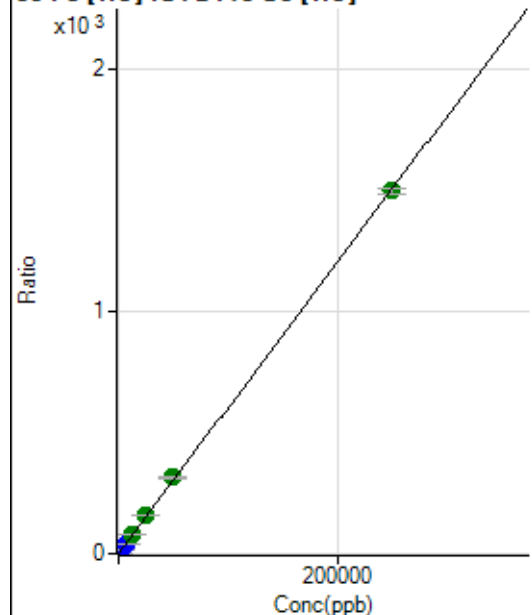
$$R = 1.0000$$

$$DL = 0.07196$$

$$BEC = 0.2281$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	8221.02	0.0664	P	4.9
2	☐	5.000					
3	☐	50.000	45.886	42023.60	0.3420	P	2.6
4	☐	2500.000	2681.930	1984409.53	16.1752	P	1.3
5	☐	6250.000	6785.585	4860130.66	40.8234	P	3.6
6	☐	12500.000	13425.919	9349771.39	80.7079	A	2.2
7	☐	25000.000	26491.156	17957281.42	159.1830	A	0.9
8	☐	50000.000	52706.864	34437620.45	316.6451	A	2.2
9	☐	250000.00	249248.00	163079144.3	1,497.150	A	1.2

$$y = 0.0060 * x + 0.0664$$

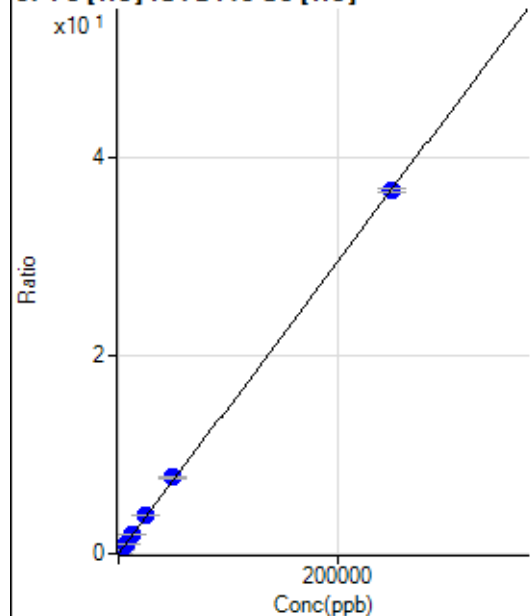
$$R = 0.9999$$

$$DL = 1.613$$

$$BEC = 11.06$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	205.57	0.0017	P	23.5
2	☐	5.000					
3	☐	50.000	46.972	1050.07	0.0085	P	11.1
4	☐	2500.000	2693.840	48675.43	0.3967	P	0.5
5	☐	6250.000	6711.518	117367.02	0.9859	P	4.2
6	☐	12500.000	13282.859	225868.01	1.9497	P	2.1
7	☐	25000.000	26380.717	436635.79	3.8706	P	0.9
8	☐	50000.000	52529.167	838042.72	7.7054	P	2.1
9	☐	250000.00	249303.47	3982744.39	36.5636	P	1.2

$$y = 1.4666E-004 * x + 0.0017$$

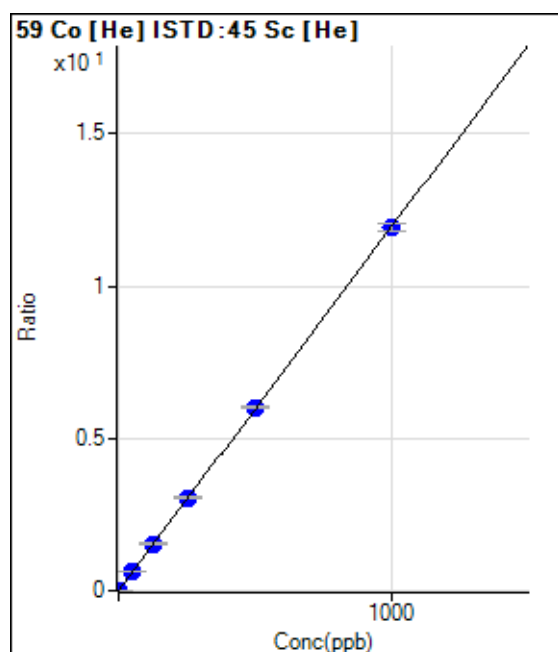
$$R = 0.9999$$

$$DL = 7.98$$

$$BEC = 11.32$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	117.78	0.0010	P	9.4
2	☐	0.100					
3	☐	1.000	0.882	1411.20	0.0115	P	4.6
4	☐	50.000	51.350	75367.85	0.6144	P	2.1
5	☐	125.000	127.836	181915.93	1.5280	P	3.7
6	☐	250.000	254.588	352400.64	3.0422	P	2.7
7	☐	500.000	502.206	676866.25	6.0002	P	1.1
8	☐	1000.000	997.328	1295803.83	11.9148	P	2.3
9	☐			1570.11	0.0144	P	3.8

$$y = 0.0119 * x + 9.5164E-004$$

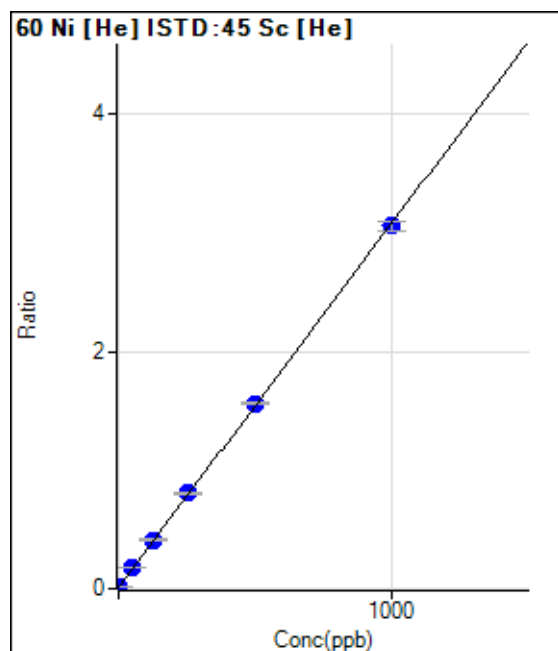
$$R = 1.0000$$

$$DL = 0.02255$$

$$BEC = 0.07966$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1158.95	0.0094	P	9.2
2	☐	0.100					
3	☐	1.000	1.295	1637.90	0.0133	P	4.8
4	☐	50.000	56.614	22448.51	0.1830	P	0.8
5	☐	125.000	130.832	48876.88	0.4106	P	3.8
6	☐	250.000	258.501	92918.39	0.8021	P	2.1
7	☐	500.000	506.534	176283.63	1.5627	P	0.8
8	☐	1000.000	993.548	332339.70	3.0561	P	2.9
9	☐			2998.13	0.0275	P	1.3

$$y = 0.0031 * x + 0.0094$$

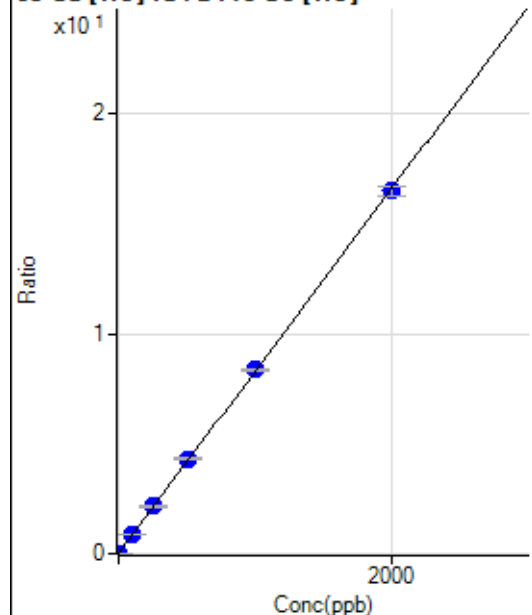
$$R = 0.9999$$

$$DL = 0.8419$$

$$BEC = 3.053$$

Weight: <None>

Min Conc: 0

⁶³Cu [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1634.56	0.0132	P	3.5
2	☐	0.200					
3	☐	2.000	1.778	3433.78	0.0279	P	3.7
4	☐	100.000	104.004	107476.13	0.8760	P	0.7
5	☐	250.000	260.502	258849.03	2.1743	P	3.8
6	☐	500.000	516.424	497823.08	4.2974	P	2.4
7	☐	1000.000	1010.870	947500.35	8.3992	P	1.0
8	☐	2000.000	1988.946	1795809.33	16.5132	P	2.7
9	☐			3764.99	0.0346	P	2.4

$$y = 0.0083 * x + 0.0132$$

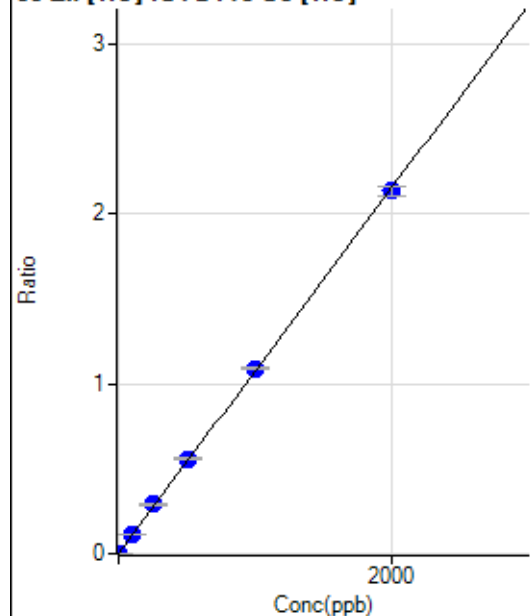
$$R = 0.9999$$

$$DL = 0.167$$

$$BEC = 1.591$$

Weight: <None>

Min Conc: 0

⁶⁶Zn [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	88.89	0.0007	P	12.3
2	☐	0.200					
3	☐	2.000	2.028	355.57	0.0029	P	11.3
4	☐	100.000	108.516	14382.78	0.1172	P	0.9
5	☐	250.000	270.635	34679.04	0.2913	P	3.7
6	☐	500.000	518.954	64630.02	0.5579	P	2.5
7	☐	1000.000	1014.225	122920.42	1.0897	P	1.7
8	☐	2000.000	1985.144	231871.40	2.1322	P	2.7
9	☐			2445.80	0.0225	P	1.2

$$y = 0.0011 * x + 7.1801E-004$$

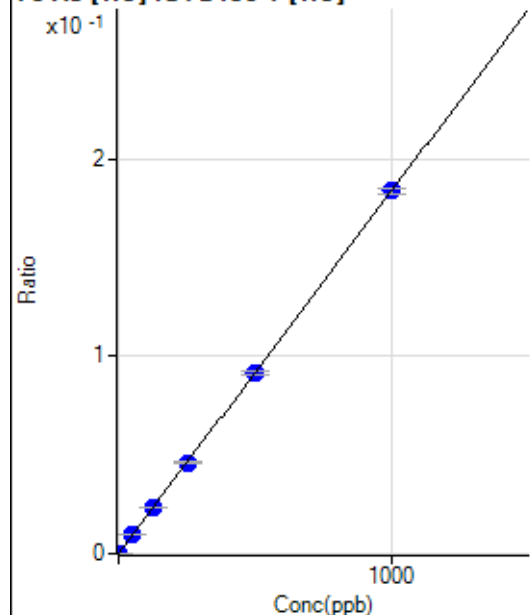
$$R = 0.9999$$

$$DL = 0.2462$$

$$BEC = 0.6687$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	4.32	0.0000	P	99.4
2	☐	0.100					
3	☐	1.000	0.867	74.07	0.0002	P	7.9
4	☐	50.000	51.324	4111.73	0.0094	P	1.9
5	☐	125.000	127.611	10020.20	0.0235	P	2.3
6	☐	250.000	251.516	19047.75	0.0462	P	1.8
7	☐	500.000	497.893	37323.09	0.0915	P	1.3
8	☐	1000.000	1000.282	71658.48	0.1838	P	1.7
9	☐			29.63	0.0001	P	43.2

$$y = 1.8370\text{E-}004 * x + 9.7814\text{E-}006$$

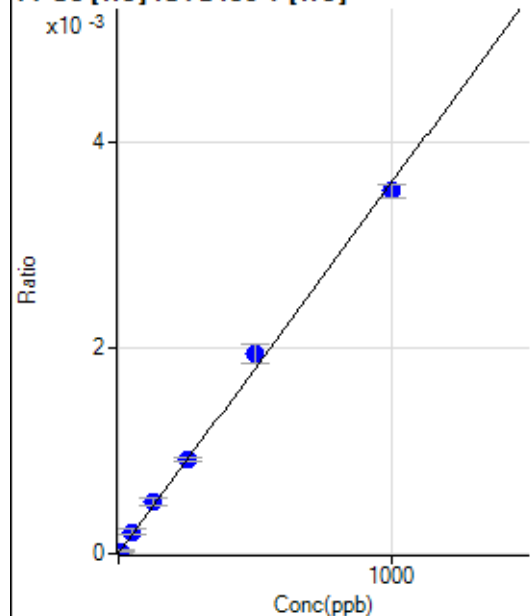
$$R = 1.0000$$

$$DL = 0.1588$$

$$BEC = 0.05325$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1.11	0.0000	P	173.
2	☐	0.500					
3	☐	5.000	4.928	8.89	0.0000	P	78.1
4	☐	50.000	58.907	93.34	0.0002	P	18.6
5	☐	125.000	138.775	214.45	0.0005	P	12.9
6	☐	250.000	254.686	378.90	0.0009	P	4.5
7	☐	500.000	536.615	788.92	0.0019	P	9.7
8	☐	1000.000	978.354	1373.42	0.0035	P	3.5
9	☐			0.00	0.0000	P	

$$y = 3.5975\text{E-}006 * x + 2.5180\text{E-}006$$

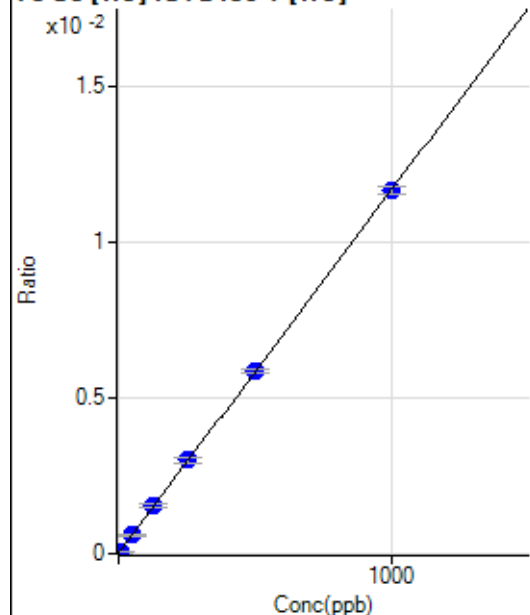
$$R = 0.9989$$

$$DL = 3.637$$

$$BEC = 0.6999$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5.56	0.0000	P	32.8
2	☐	0.500					
3	☐	5.000	4.837	30.25	0.0001	P	19.5
4	☐	50.000	50.658	262.97	0.0006	P	9.4
5	☐	125.000	132.397	665.45	0.0016	P	8.1
6	☐	250.000	255.742	1235.25	0.0030	P	7.1
7	☐	500.000	500.490	2389.11	0.0059	P	1.7
8	☐	1000.000	997.363	4545.20	0.0117	P	2.2
9	☐			14.81	0.0000	P	13.5

$$y = 1.1674\text{E-}005 * x + 1.2535\text{E-}005$$

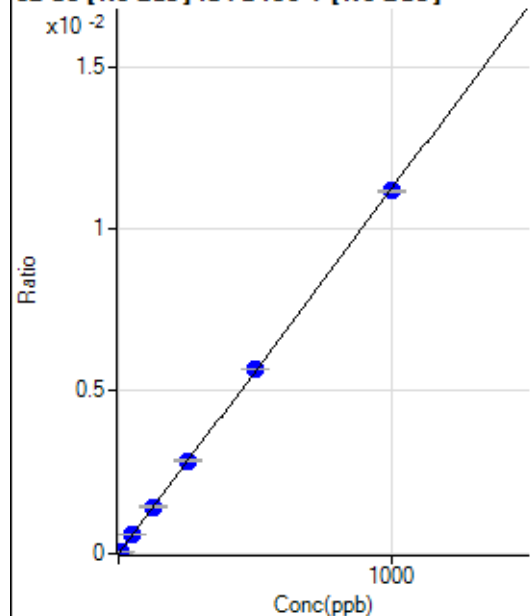
$$R = 1.0000$$

$$DL = 1.058$$

$$BEC = 1.074$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	-44.57	0.0000	P	-50.
2	☐	0.500					
3	☐	5.000	4.072	126.34	0.0000	P	14.6
4	☐	50.000	52.880	2127.63	0.0006	P	0.4
5	☐	125.000	128.502	5195.69	0.0014	P	1.9
6	☐	250.000	255.702	10159.30	0.0029	P	2.9
7	☐	500.000	505.861	19963.23	0.0057	P	0.8
8	☐	1000.000	995.067	38400.62	0.0112	P	0.5
9	☐			-15.19	0.0000	P	-41.

$$y = 1.1245\text{E-}005 * x - 1.1775\text{E-}005$$

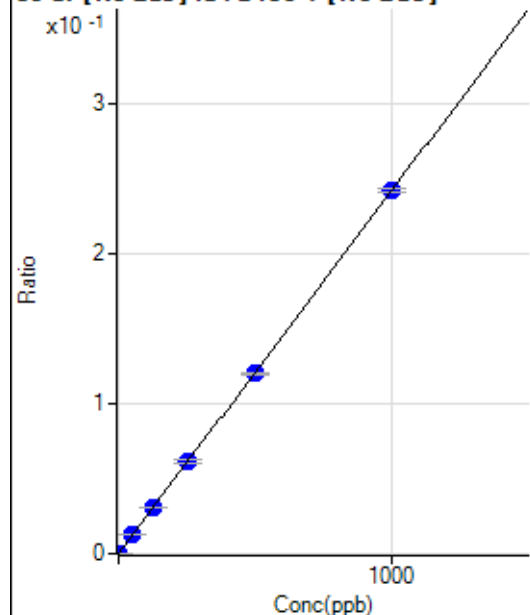
$$R = 1.0000$$

$$DL = 1.575$$

$$BEC = -1.047$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	177.79	0.0000	P	30.3
2	☐	0.100					
3	☐	1.000	0.916	997.30	0.0003	P	17.3
4	☐	50.000	51.100	45252.98	0.0124	P	0.6
5	☐	125.000	126.914	111373.87	0.0307	P	0.2
6	☐	250.000	254.013	217960.85	0.0614	P	3.3
7	☐	500.000	497.422	422949.58	0.1203	P	1.1
8	☐	1000.000	999.991	830463.44	0.2417	P	1.0
9	☐			27440.93	0.0083	P	0.8

$$y = 2.4169\text{E-}004 * x + 4.7141\text{E-}005$$

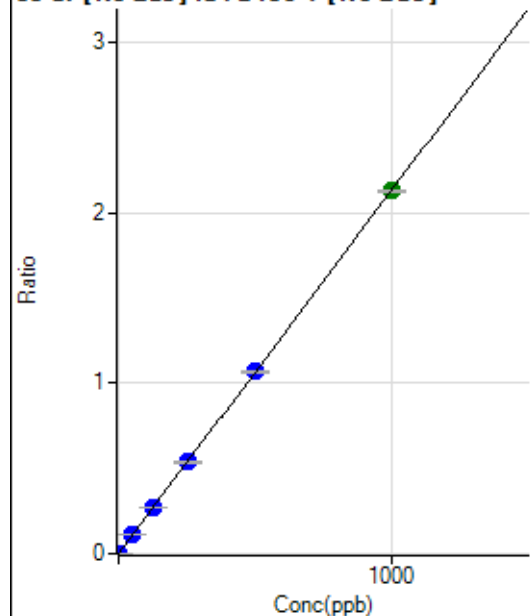
$$R = 1.0000$$

$$DL = 0.177$$

$$BEC = 0.195$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	313.91	0.0001	P	21.0
2	☐	0.100					
3	☐	1.000	0.874	7232.68	0.0019	P	3.9
4	☐	50.000	50.631	394406.96	0.1081	P	1.5
5	☐	125.000	125.356	969470.89	0.2674	P	0.5
6	☐	250.000	252.969	1914252.71	0.5396	P	2.9
7	☐	500.000	500.864	3756557.50	1.0682	P	1.3
8	☐	1000.000	998.750	7317639.83	2.1300	A	0.4
9	☐			241416.37	0.0732	P	0.5

$$y = 0.0021 * x + 8.3188\text{E-}005$$

$$R = 1.0000$$

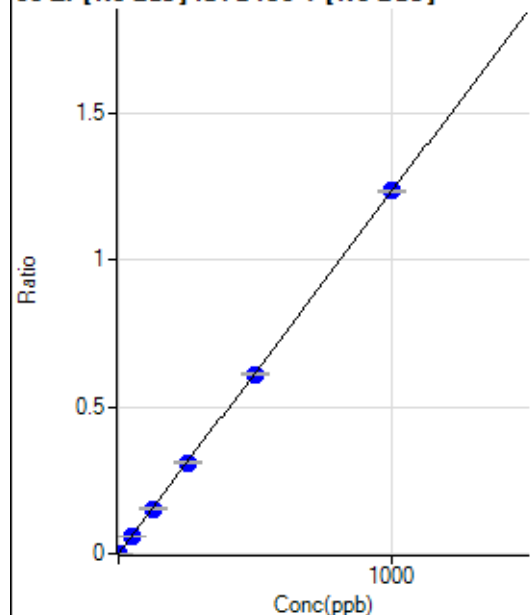
$$DL = 0.02461$$

$$BEC = 0.03901$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	225.01	0.0001	P	22.5
2	☐	0.100					
3	☐	1.000	0.753	3670.08	0.0010	P	4.3
4	☐	50.000	49.604	223537.69	0.0612	P	1.0
5	☐	125.000	124.566	557206.62	0.1537	P	0.4
6	☐	250.000	250.214	1095156.90	0.3087	P	2.6
7	☐	500.000	496.168	2152313.70	0.6120	P	1.3
8	☐	1000.000	1001.937	4245697.44	1.2358	P	0.5
9	☐			808.40	0.0002	P	10.6

$$y = 0.0012 * x + 5.9620E-005$$

$$R = 1.0000$$

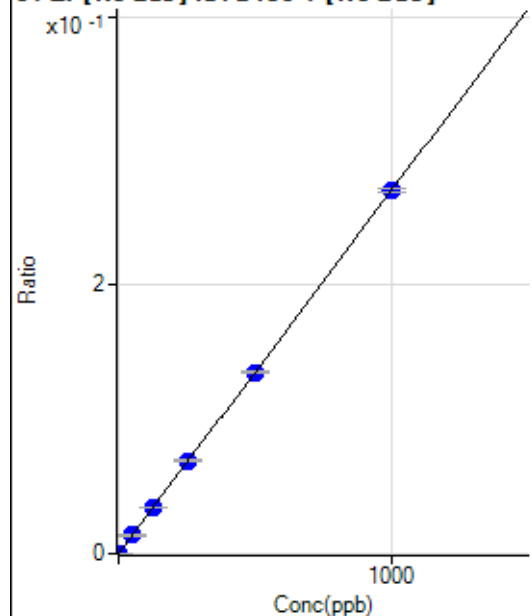
$$DL = 0.0326$$

$$BEC = 0.04834$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	52.78	0.0000	P	24.3
2	☐	0.100					
3	☐	1.000	0.842	897.29	0.0002	P	16.6
4	☐	50.000	50.311	49692.74	0.0136	P	1.1
5	☐	125.000	126.529	124050.44	0.0342	P	0.5
6	☐	250.000	255.013	244627.29	0.0690	P	2.8
7	☐	500.000	499.484	474891.78	0.1350	P	0.9
8	☐	1000.000	998.798	927617.85	0.2700	P	0.9
9	☐			197.23	0.0001	P	12.9

$$y = 2.7032E-004 * x + 1.3982E-005$$

$$R = 1.0000$$

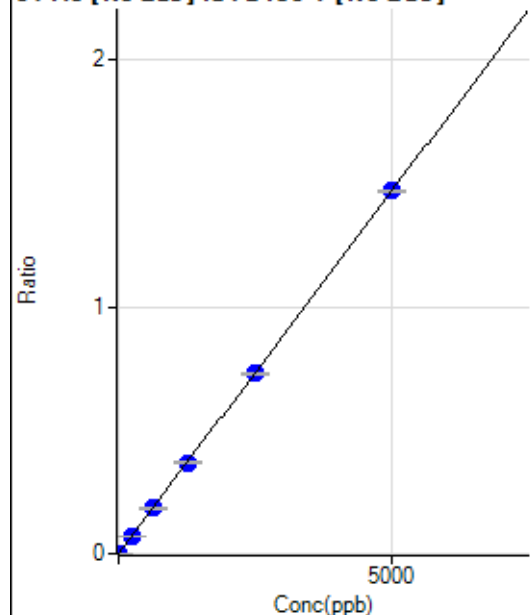
$$DL = 0.03766$$

$$BEC = 0.05172$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	122.23	0.0000	P	59.4
2	☐	0.500					
3	☐	5.000	4.198	4692.65	0.0013	P	3.8
4	☐	250.000	249.346	267075.88	0.0732	P	1.1
5	☐	625.000	623.647	663293.71	0.1830	P	0.7
6	☐	1250.000	1252.541	1303605.25	0.3674	P	2.8
7	☐	2500.000	2484.491	2562935.89	0.7288	P	1.2
8	☐	5000.000	5007.322	5045987.83	1.4688	P	0.8
9	☐			2405.86	0.0007	P	7.3

$$y = 2.9332\text{E-}004 * x + 3.2432\text{E-}005$$

$$R = 1.0000$$

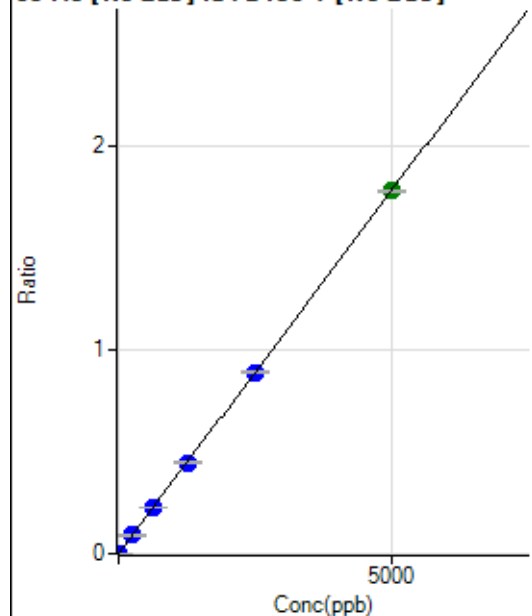
$$DL = 0.197$$

$$BEC = 0.1106$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	38.89	0.0000	P	45.3
2	☐	0.500					
3	☐	5.000	4.468	5954.28	0.0016	P	4.0
4	☐	250.000	252.870	329101.40	0.0902	P	1.6
5	☐	625.000	626.911	810357.05	0.2235	P	0.3
6	☐	1250.000	1258.012	1591409.92	0.4485	P	2.5
7	☐	2500.000	2500.153	3134821.64	0.8914	P	1.0
8	☐	5000.000	4997.539	6121376.87	1.7818	A	0.4
9	☐			4220.26	0.0013	P	2.4

$$y = 3.5653\text{E-}004 * x + 1.0316\text{E-}005$$

$$R = 1.0000$$

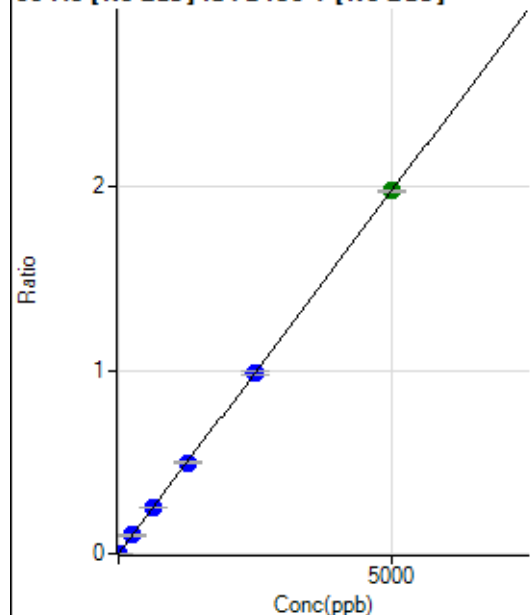
$$DL = 0.03931$$

$$BEC = 0.02893$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	61.11	0.0000	P	15.8
2	☐	0.500					
3	☐	5.000	4.235	6276.62	0.0017	P	4.3
4	☐	250.000	252.441	364257.25	0.0998	P	0.9
5	☐	625.000	626.489	897755.54	0.2476	P	0.5
6	☐	1250.000	1257.061	1762925.15	0.4969	P	2.5
7	☐	2500.000	2492.101	3463931.46	0.9850	P	1.4
8	☐	5000.000	5001.877	6791973.33	1.9770	A	0.4
9	☐			4345.28	0.0013	P	3.0

$$y = 3.9525\text{E-}004 * x + 1.6185\text{E-}005$$

$$R = 1.0000$$

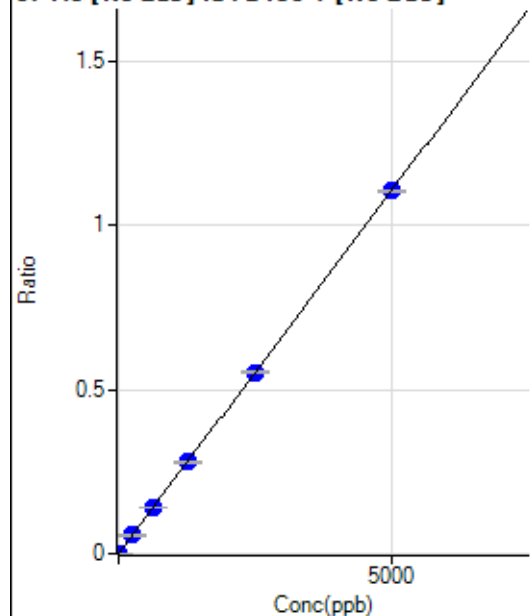
$$DL = 0.0194$$

$$BEC = 0.04095$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	33.33	0.0000	P	89.5
2	☐	0.500					
3	☐	5.000	4.292	3558.94	0.0010	P	7.6
4	☐	250.000	253.404	204641.28	0.0561	P	1.8
5	☐	625.000	630.249	505495.66	0.1394	P	0.7
6	☐	1250.000	1260.096	989081.21	0.2788	P	2.6
7	☐	2500.000	2498.292	1943615.69	0.5527	P	1.2
8	☐	5000.000	4997.504	3798145.62	1.1056	P	0.7
9	☐			2411.42	0.0007	P	4.8

$$y = 2.2122\text{E-}004 * x + 8.8015\text{E-}006$$

$$R = 1.0000$$

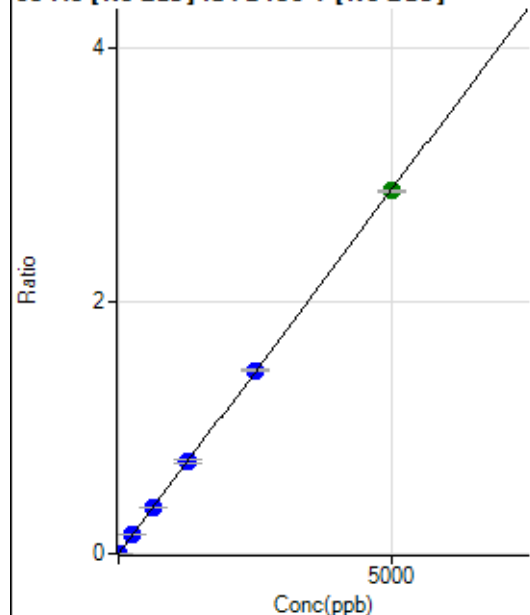
$$DL = 0.1069$$

$$BEC = 0.03979$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	61.11	0.0000	P	20.6
2	☐	0.500					
3	☐	5.000	4.199	9044.90	0.0024	P	1.4
4	☐	250.000	252.387	530915.42	0.1455	P	0.8
5	☐	625.000	626.859	1309610.54	0.3612	P	0.5
6	☐	1250.000	1264.622	2585467.83	0.7287	P	2.9
7	☐	2500.000	2520.213	5107125.94	1.4523	P	1.3
8	☐	5000.000	4985.887	9870530.95	2.8731	A	0.4
9	☐			6207.17	0.0019	P	1.7

$$y = 5.7624\text{E-}004 * x + 1.6178\text{E-}005$$

$$R = 1.0000$$

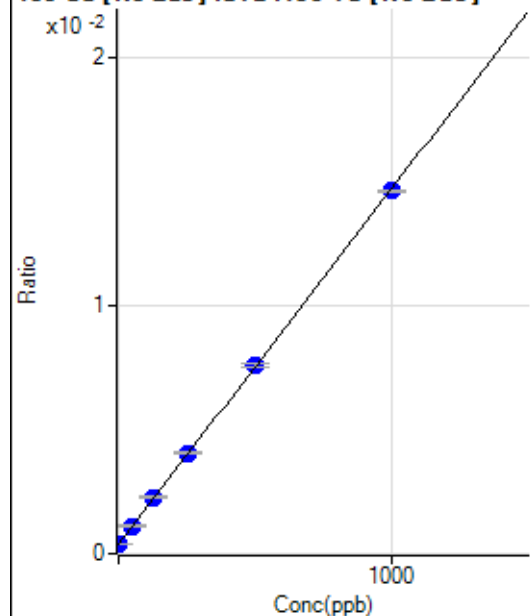
$$DL = 0.01738$$

$$BEC = 0.02808$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2272.51	0.0004	P	3.9
2	☐	0.100					
3	☐	1.000	1.066	2339.17	0.0004	P	11.4
4	☐	50.000	50.413	6412.84	0.0011	P	5.3
5	☐	125.000	131.888	13226.17	0.0023	P	4.2
6	☐	250.000	257.497	23439.58	0.0041	P	2.6
7	☐	500.000	505.475	43824.29	0.0076	P	1.6
8	☐	1000.000	994.506	82906.59	0.0146	P	0.4
9	☐			2003.02	0.0004	P	15.6

$$y = 1.4316\text{E-}005 * x + 3.7849\text{E-}004$$

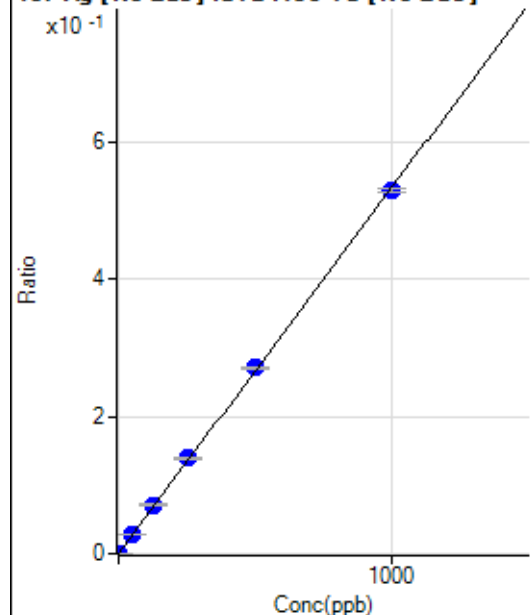
$$R = 0.9999$$

$$DL = 3.099$$

$$BEC = 26.44$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	63.89	0.0000	P	41.8
2	☐	0.100					
3	☐	1.000	0.981	3164.39	0.0005	P	0.5
4	☐	50.000	54.315	168485.57	0.0289	P	0.4
5	☐	125.000	133.804	415486.83	0.0712	P	0.4
6	☐	250.000	261.708	803044.81	0.1393	P	2.3
7	☐	500.000	507.706	1554621.54	0.2701	P	0.9
8	☐	1000.000	991.904	2993693.32	0.5278	P	0.9
9	☐			283.35	0.0001	P	20.8

$$y = 5.3208\text{E-}004 * x + 1.0630\text{E-}005$$

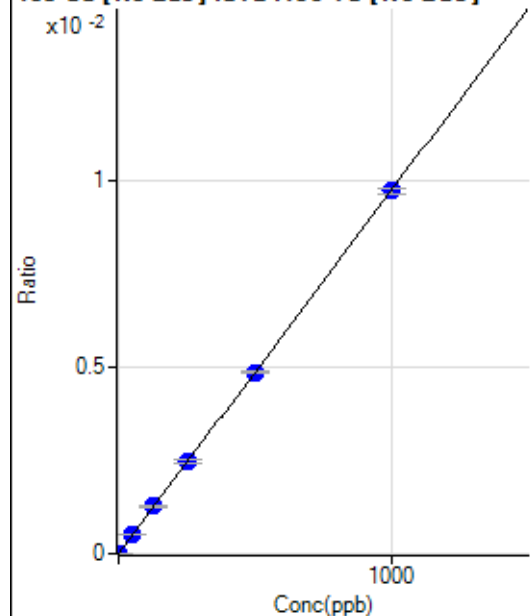
$$R = 0.9999$$

$$DL = 0.02507$$

$$BEC = 0.01998$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4.17	0.0000	P	99.3
2	☐	0.100					
3	☐	1.000	0.673	43.06	0.0000	P	14.8
4	☐	50.000	53.599	3046.22	0.0005	P	1.9
5	☐	125.000	130.448	7417.36	0.0013	P	2.7
6	☐	250.000	254.208	14279.66	0.0025	P	3.3
7	☐	500.000	499.764	28015.52	0.0049	P	0.8
8	☐	1000.000	998.205	55150.19	0.0097	P	1.3
9	☐			22.22	0.0000	P	54.2

$$y = 9.7398\text{E-}006 * x + 6.8963\text{E-}007$$

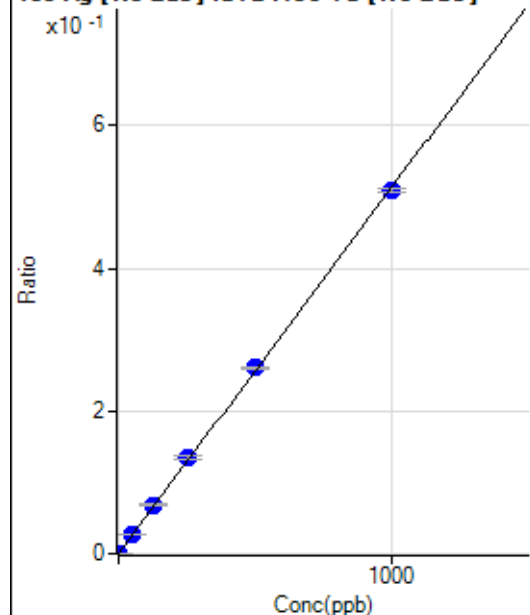
$$R = 1.0000$$

$$DL = 0.211$$

$$BEC = 0.07081$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	19.44	0.0000	P	66.0
2	☐	0.100					
3	☐	1.000	0.936	2872.65	0.0005	P	2.1
4	☐	50.000	53.937	161289.68	0.0277	P	0.5
5	☐	125.000	133.322	399143.89	0.0684	P	1.4
6	☐	250.000	262.065	775333.62	0.1345	P	2.6
7	☐	500.000	508.568	1501558.21	0.2609	P	1.1
8	☐	1000.000	991.463	2885386.44	0.5087	P	0.9
9	☐			302.79	0.0001	P	4.7

$$y = 5.1306\text{E-}004 * x + 3.2495\text{E-}006$$

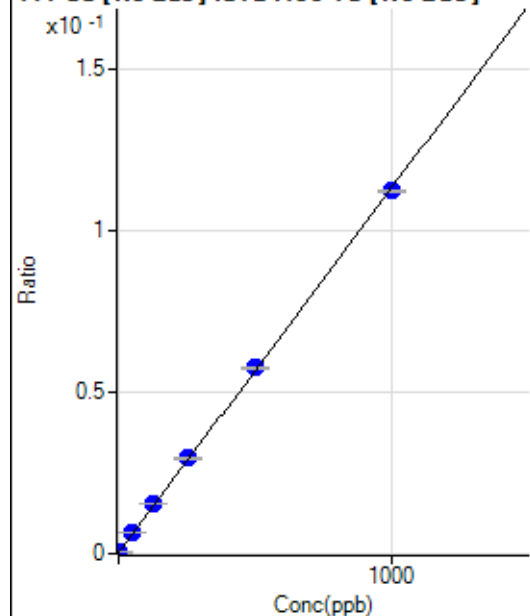
$$R = 0.9998$$

$$DL = 0.01253$$

$$BEC = 0.006334$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1592.01	0.0003	P	3.9
2	☐	0.100					
3	☐	1.000	0.977	2229.53	0.0004	P	10.8
4	☐	50.000	54.359	37265.20	0.0064	P	0.9
5	☐	125.000	132.954	89020.57	0.0153	P	1.0
6	☐	250.000	259.604	170315.88	0.0295	P	2.7
7	☐	500.000	507.767	330998.91	0.0575	P	1.0
8	☐	1000.000	992.504	636299.86	0.1122	P	0.5
9	☐			1506.00	0.0003	P	13.6

$$y = 1.1275\text{E-}004 * x + 2.6515\text{E-}004$$

$$R = 0.9999$$

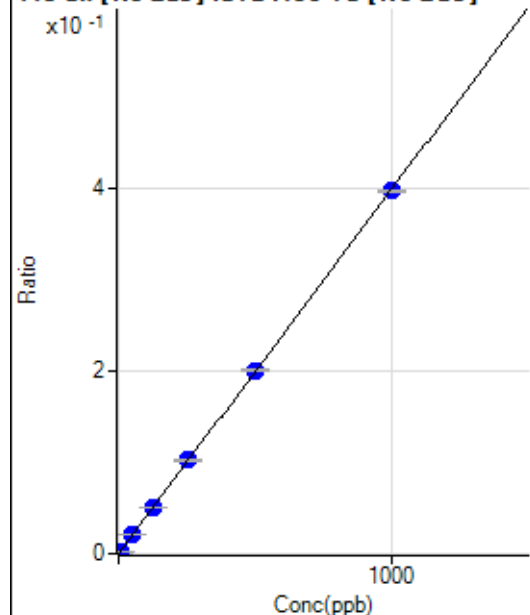
$$DL = 0.2744$$

$$BEC = 2.352$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	822.44	0.0001	P	17.3
2	☐	0.500					
3	☐	5.000	4.122	10548.79	0.0018	P	1.4
4	☐	50.000	51.688	120572.30	0.0207	P	1.7
5	☐	125.000	127.247	296049.15	0.0507	P	1.0
6	☐	250.000	256.140	588104.02	0.1020	P	2.8
7	☐	500.000	504.023	1154170.39	0.2006	P	0.9
8	☐	1000.000	996.093	2247554.89	0.3962	P	0.8
9	☐			3031.03	0.0006	P	12.1

$$y = 3.9765E-004 * x + 1.3679E-004$$

$$R = 1.0000$$

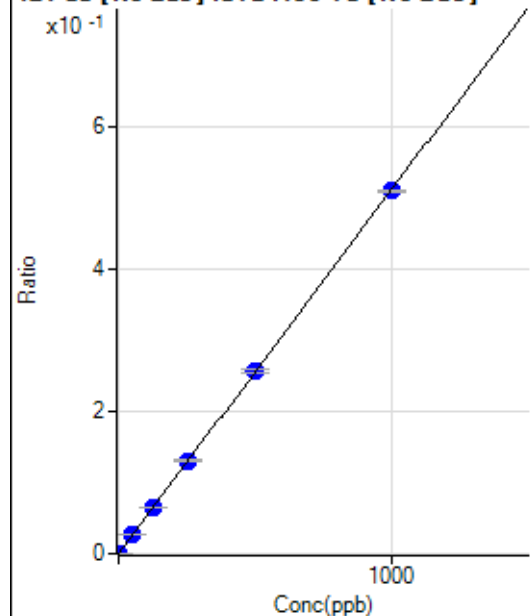
$$DL = 0.1787$$

$$BEC = 0.344$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	16.67	0.0000	P	49.1
2	☐	0.200					
3	☐	2.000	1.701	5179.00	0.0009	P	4.2
4	☐	50.000	51.434	153133.10	0.0263	P	1.4
5	☐	125.000	128.087	381801.09	0.0654	P	0.4
6	☐	250.000	254.940	750946.28	0.1302	P	2.9
7	☐	500.000	502.842	1478121.88	0.2569	P	1.4
8	☐	1000.000	996.887	2888489.04	0.5092	P	0.8
9	☐			7491.18	0.0014	P	4.0

$$y = 5.1082E-004 * x + 2.7667E-006$$

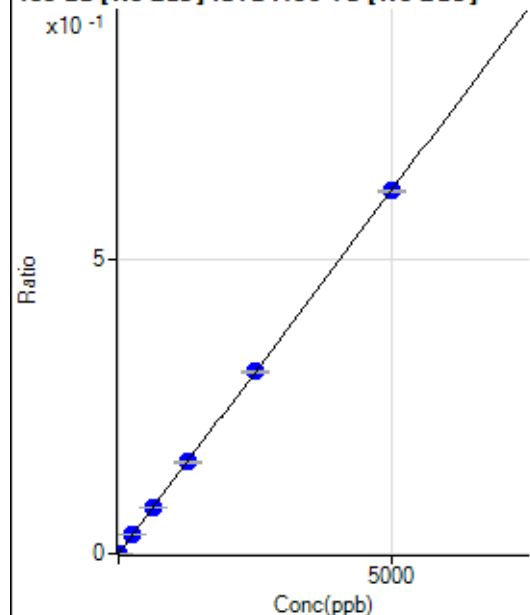
$$R = 1.0000$$

$$DL = 0.00797$$

$$BEC = 0.005416$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	16.67	0.0000	P	86.6
2	☐	1.000					
3	☐	10.000	8.557	6304.45	0.0011	P	4.7
4	☐	250.000	259.498	187080.00	0.0321	P	1.1
5	☐	625.000	639.587	461667.65	0.0791	P	0.6
6	☐	1250.000	1267.673	904291.10	0.1568	P	2.3
7	☐	2500.000	2501.009	1780350.78	0.3094	P	1.1
8	☐	5000.000	4992.782	3503273.99	0.6176	P	0.8
9	☐			1405.69	0.0003	P	9.3

$$y = 1.2370\text{E-}004 * x + 2.7663\text{E-}006$$

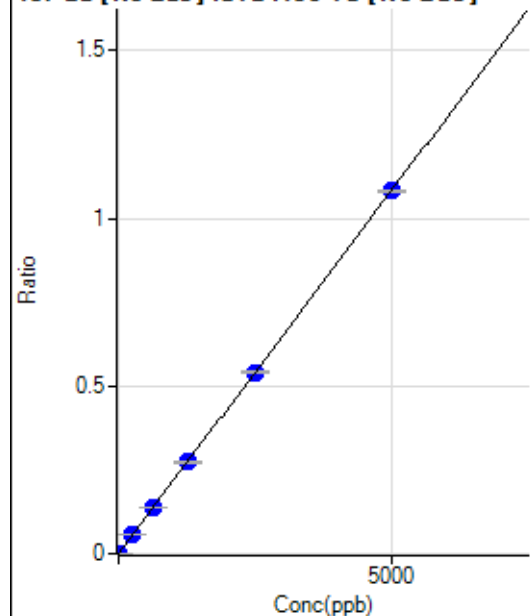
$$R = 1.0000$$

$$DL = 0.05811$$

$$BEC = 0.02236$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	25.00	0.0000	P	34.1
2	☐	1.000					
3	☐	10.000	8.502	10963.11	0.0018	P	1.7
4	☐	250.000	255.445	322433.89	0.0553	P	1.4
5	☐	625.000	628.580	794409.96	0.1361	P	0.9
6	☐	1250.000	1262.318	1576436.56	0.2734	P	2.9
7	☐	2500.000	2499.028	3114706.15	0.5413	P	1.2
8	☐	5000.000	4996.690	6138611.29	1.0822	P	0.8
9	☐			2397.53	0.0004	P	4.1

$$y = 2.1659\text{E-}004 * x + 4.1722\text{E-}006$$

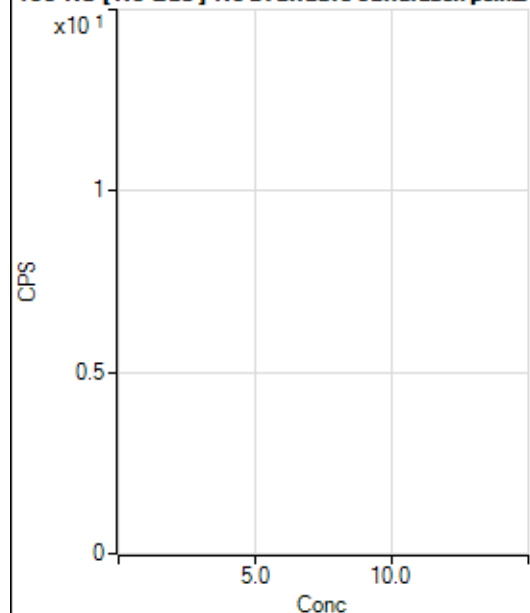
$$R = 1.0000$$

$$DL = 0.01969$$

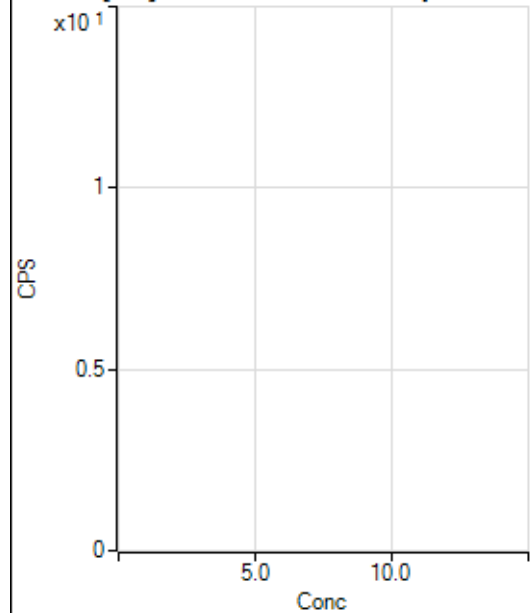
$$BEC = 0.01926$$

Weight: <None>

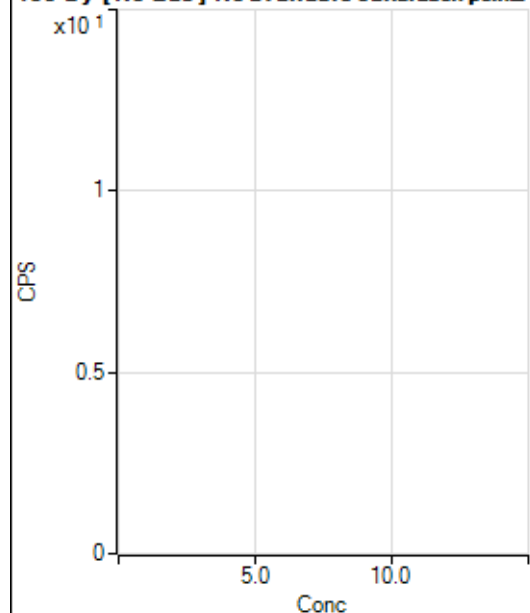
Min Conc: 0

150 Nd [No Gas] No available calibration points

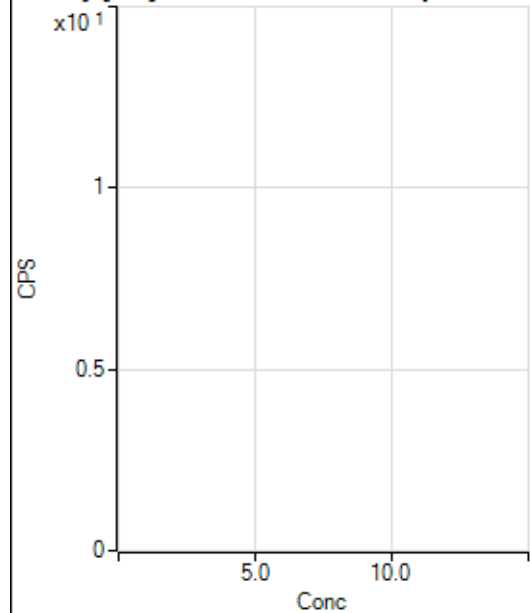
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐						
3	☐			2.22		P	173.
4	☐			20.00		P	33.4
5	☐			51.12		P	7.5
6	☐			108.89		P	35.9
7	☐			200.01		P	3.3
8	☐			388.91		P	17.5
9	☐			42.22		P	18.2

150 Nd [He] No available calibration points

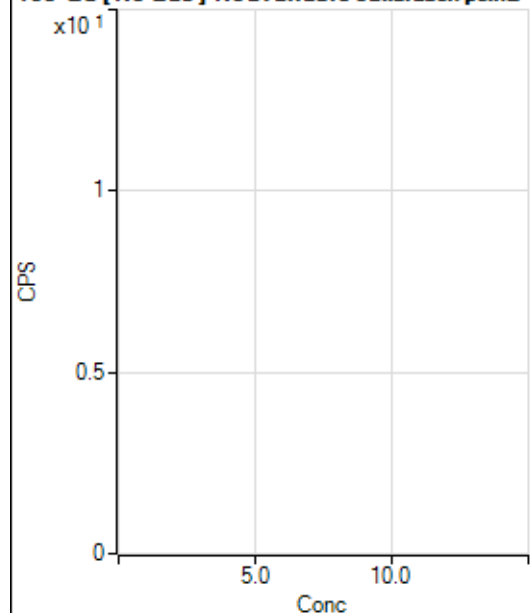
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐						
3	☐			0.00		P	
4	☐			0.00		P	
5	☐			4.45		P	86.6
6	☐			4.44		P	43.4
7	☐			12.22		P	56.8
8	☐			16.67		P	20.0
9	☐			7.78		P	65.5

156 Dy [No Gas] No available calibration points

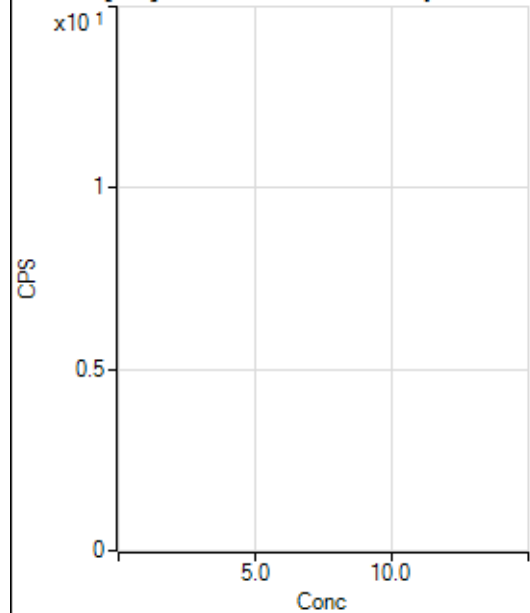
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			11.11		P	114.
2	☐						
3	☐			13.89		P	34.7
4	☐			25.00		P	33.3
5	☐			19.44		P	89.2
6	☐			27.78		P	45.8
7	☐			52.78		P	24.1
8	☐			69.45		P	30.2
9	☐			38.89		P	32.7

156 Dy [He] No available calibration points

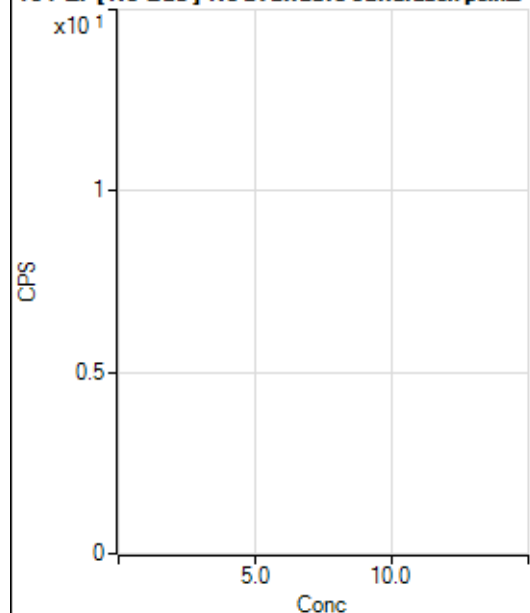
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.
2	☐						
3	☐			3.33		P	173.
4	☐			3.33		P	0.0
5	☐			1.11		P	173.
6	☐			5.55		P	69.3
7	☐			15.56		P	12.4
8	☐			16.67		P	40.0
9	☐			8.89		P	57.3

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

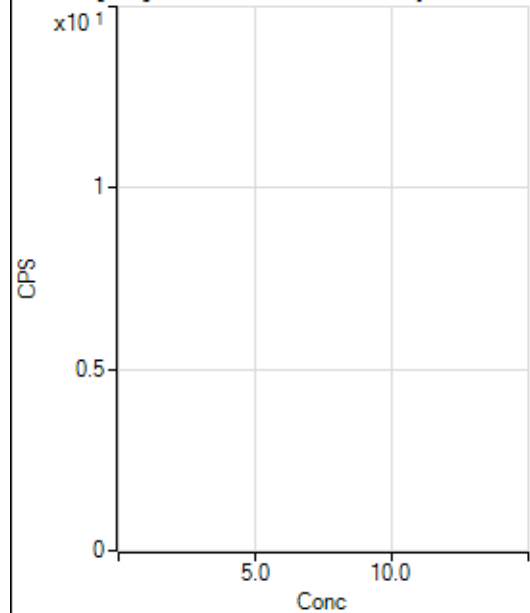
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			13.89		P	34.7
2	☐						
3	☐			11.11		P	43.3
4	☐			19.44		P	89.2
5	☐			25.00		P	66.7
6	☐			38.89		P	12.4
7	☐			16.67		P	100.
8	☐			11.11		P	43.3
9	☐			41.67		P	34.6

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			17.78		P	60.3
2	☐						
3	☐			20.00		P	33.4
4	☐			14.45		P	48.0
5	☐			14.45		P	74.2
6	☐			17.78		P	57.3
7	☐			18.89		P	20.4
8	☐			11.11		P	34.6
9	☐			21.11		P	24.1

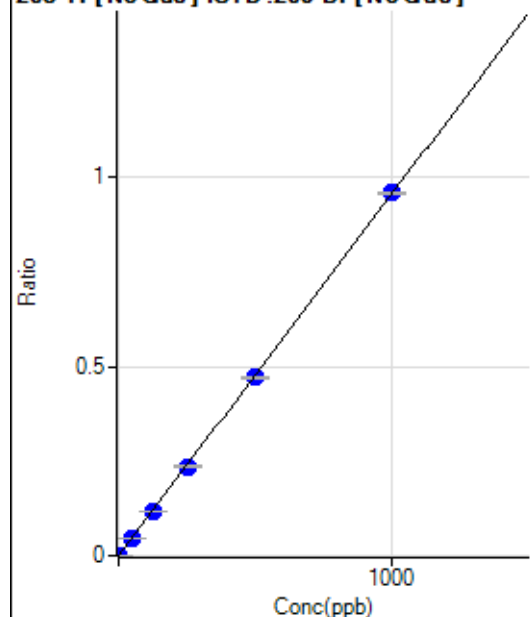
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.55		P	86.6
2	☐						
3	☐			16.67		P	50.0
4	☐			22.22		P	114.
5	☐			19.44		P	89.2
6	☐			16.67		P	50.0
7	☐			2.78		P	173.
8	☐			33.33		P	43.3
9	☐			22.22		P	43.3

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	0.0
2	☐						
3	☐			12.22		P	41.7
4	☐			4.44		P	43.4
5	☐			5.55		P	69.3
6	☐			8.89		P	57.3
7	☐			10.00		P	57.7
8	☐			14.44		P	58.1
9	☐			12.22		P	15.7

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	66.67	0.0000	P	11.7
2	☐	0.100					
3	☐	1.000	0.846	3617.36	0.0008	P	6.0
4	☐	50.000	49.154	201344.13	0.0470	P	2.0
5	☐	125.000	121.812	496723.09	0.1165	P	0.6
6	☐	250.000	247.067	983691.28	0.2362	P	2.7
7	☐	500.000	494.517	1945286.44	0.4728	P	1.1
8	☐	1000.000	1003.915	3826334.46	0.9598	P	0.3
9	☐			886.18	0.0002	P	7.6

$$y = 9.5602\text{E-}004 * x + 1.4941\text{E-}005$$

$$R = 1.0000$$

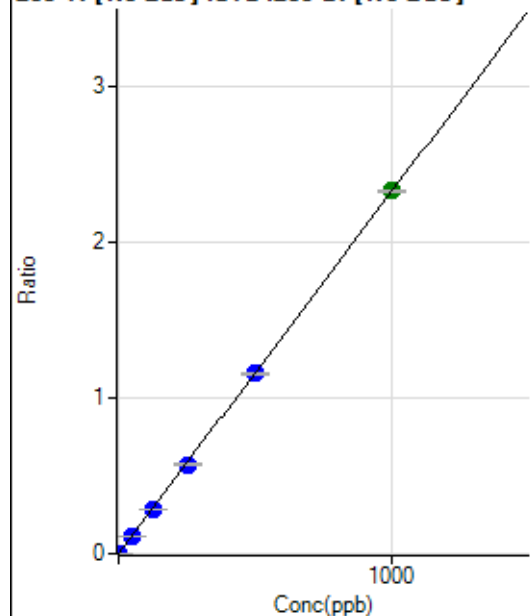
$$DL = 0.005497$$

$$BEC = 0.01563$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	122.23	0.0000	P	28.2
2	☐	0.100					
3	☐	1.000	0.842	8708.76	0.0020	P	2.9
4	☐	50.000	48.973	487524.98	0.1138	P	1.4
5	☐	125.000	121.645	1205476.20	0.2827	P	1.0
6	☐	250.000	246.974	2389771.21	0.5739	P	2.7
7	☐	500.000	496.997	4751289.17	1.1548	P	1.3
8	☐	1000.000	1002.729	9288235.88	2.3298	A	0.2
9	☐			2241.97	0.0006	P	4.6

$$y = 0.0023 * x + 2.7401\text{E-}005$$

$$R = 1.0000$$

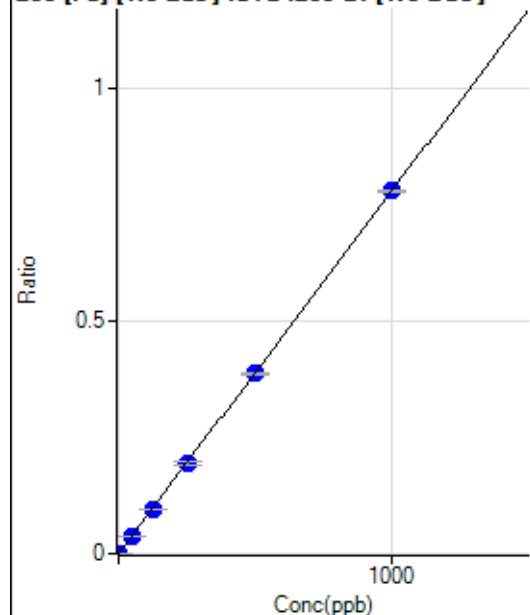
$$DL = 0.009969$$

$$BEC = 0.01179$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	148.15	0.0000	P	11.6
2	☐	0.100					
3	☐	1.000	0.850	3054.16	0.0007	P	1.1
4	☐	50.000	49.831	166360.82	0.0388	P	1.3
5	☐	125.000	123.132	409057.86	0.0959	P	0.7
6	☐	250.000	250.393	812076.63	0.1950	P	2.9
7	☐	500.000	497.418	1593857.21	0.3874	P	1.1
8	☐	1000.000	1001.435	3108993.07	0.7798	P	0.4
9	☐			4239.70	0.0012	P	2.9

$$y = 7.7870\text{E-}004 * x + 3.3238\text{E-}005$$

$$R = 1.0000$$

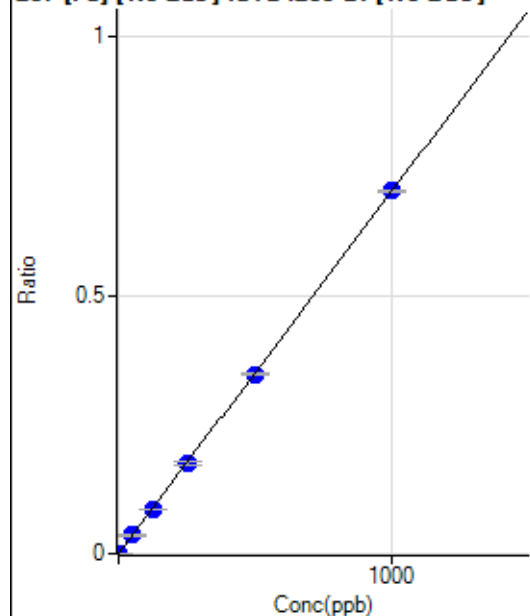
$$DL = 0.01479$$

$$BEC = 0.04268$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	120.37	0.0000	P	9.0
2	☐	0.100					
3	☐	1.000	0.896	2872.62	0.0007	P	4.3
4	☐	50.000	50.483	151532.68	0.0354	P	2.2
5	☐	125.000	123.935	370244.99	0.0868	P	0.8
6	☐	250.000	250.834	731523.82	0.1757	P	3.2
7	☐	500.000	495.768	1428533.05	0.3472	P	1.4
8	☐	1000.000	1002.017	2797483.72	0.7017	P	0.5
9	☐			3656.17	0.0010	P	1.9

$$y = 7.0027\text{E-}004 * x + 2.6983\text{E-}005$$

$$R = 1.0000$$

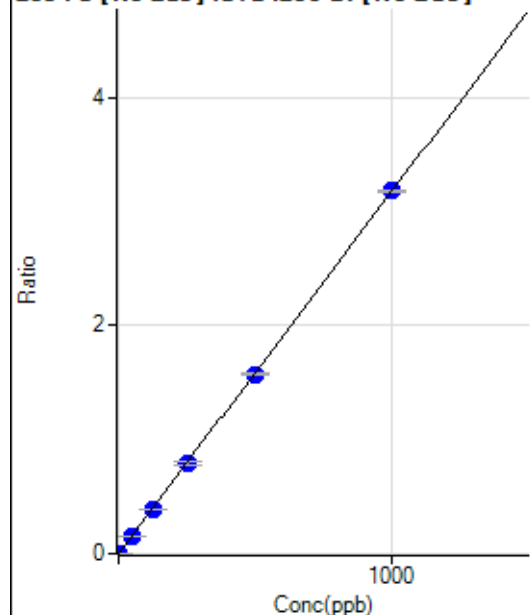
$$DL = 0.01045$$

$$BEC = 0.03853$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	574.09	0.0001	P	16.0
2	☐	0.100					
3	☐	1.000	0.859	12541.59	0.0029	P	4.3
4	☐	50.000	49.873	678525.92	0.1584	P	1.9
5	☐	125.000	123.208	1668179.29	0.3912	P	0.8
6	☐	250.000	249.749	3300970.72	0.7928	P	3.3
7	☐	500.000	495.043	6464880.47	1.5713	P	1.3
8	☐	1000.000	1002.772	12688119.12	3.1826	P	0.4
9	☐			16915.83	0.0047	P	1.1

$$y = 0.0032 * x + 1.2883E-004$$

$$R = 1.0000$$

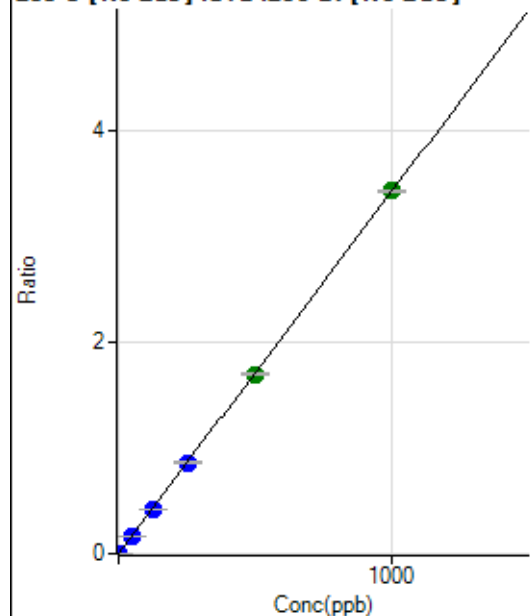
$$DL = 0.01945$$

$$BEC = 0.04059$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	77.78	0.0000	P	25.5
2	☐	0.100					
3	☐	1.000	0.806	12184.07	0.0028	P	0.9
4	☐	50.000	49.178	720491.11	0.1682	P	1.3
5	☐	125.000	122.856	1791931.22	0.4202	P	0.5
6	☐	250.000	251.556	3582400.88	0.8603	P	3.0
7	☐	500.000	495.147	6967447.29	1.6933	A	0.9
8	☐	1000.000	1002.347	13665968.97	3.4279	A	0.5
9	☐			794.51	0.0002	P	5.0

$$y = 0.0034 * x + 1.7462E-005$$

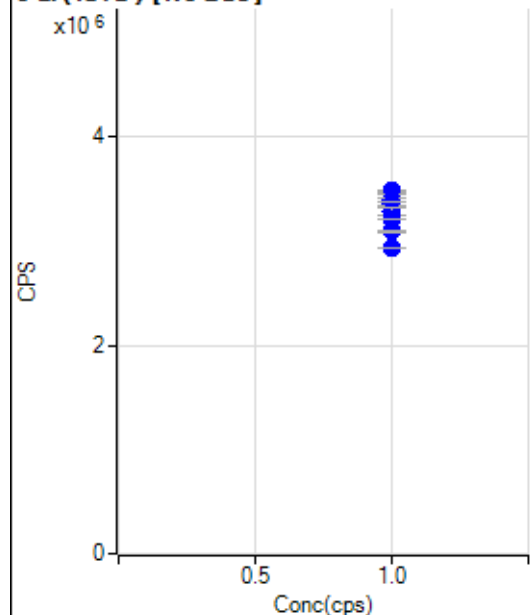
$$R = 1.0000$$

$$DL = 0.003906$$

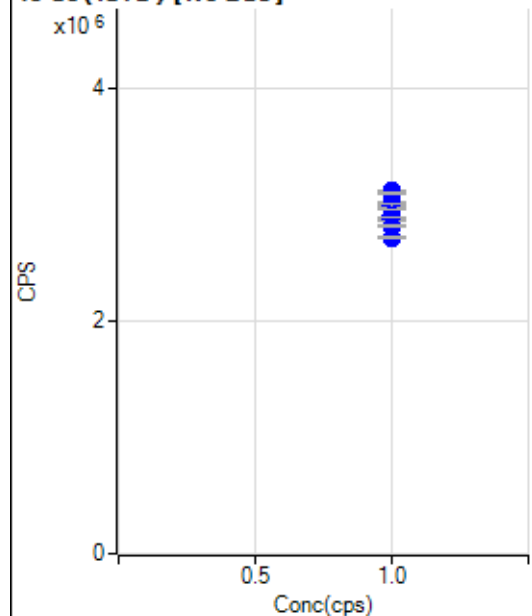
$$BEC = 0.005106$$

Weight: <None>

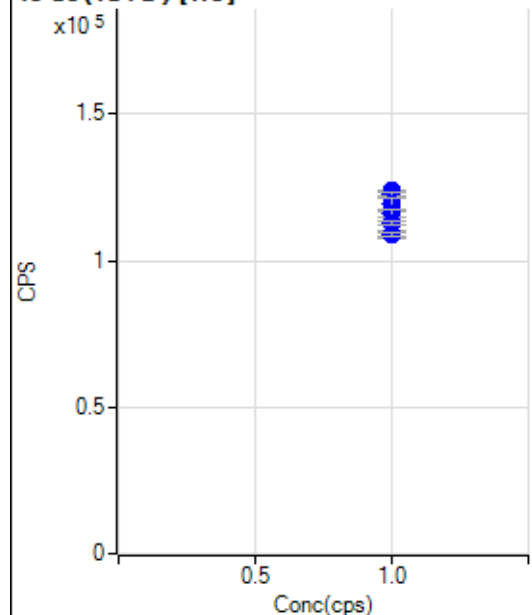
Min Conc: 0

6 Li (ISTD) [No Gas]

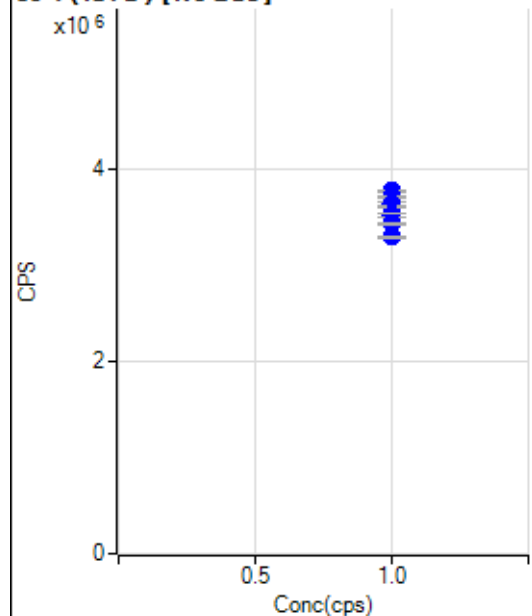
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3480249.60		P	0.6
2	☐	1.000					
3	☐	1.000		3447387.76		P	0.1
4	☐	1.000		3393517.31		P	0.7
5	☐	1.000		3355697.52		P	0.8
6	☐	1.000		3279168.04		P	2.0
7	☐	1.000		3210255.30		P	0.4
8	☐	1.000		3094731.79		P	0.5
9	☐	1.000		2928854.40		P	0.2

45 Sc (ISTD) [No Gas]

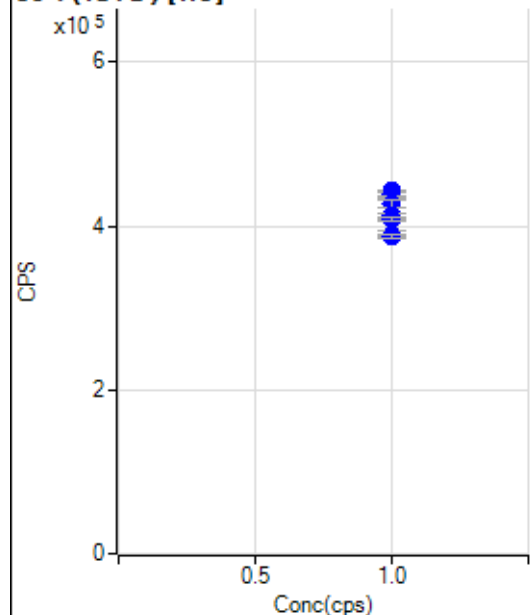
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3112608.70		P	0.6
2	☐	1.000					
3	☐	1.000		3087343.23		P	0.5
4	☐	1.000		3004819.38		P	1.2
5	☐	1.000		2987265.10		P	1.0
6	☐	1.000		2909092.71		P	2.8
7	☐	1.000		2872025.32		P	1.4
8	☐	1.000		2810195.89		P	0.9
9	☐	1.000		2707790.81		P	0.5

45 Sc (ISTD) [He]

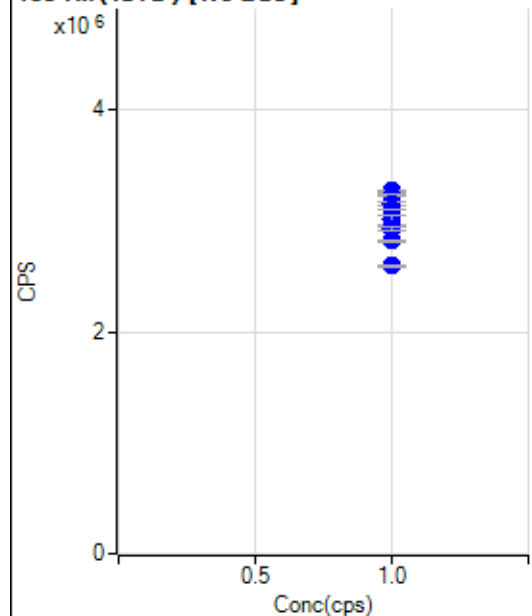
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		123827.89		P	0.8
2	☐	1.000					
3	☐	1.000		122909.49		P	1.9
4	☐	1.000		122696.22		P	1.3
5	☐	1.000		119155.86		P	3.6
6	☐	1.000		115884.00		P	2.2
7	☐	1.000		112815.32		P	1.0
8	☐	1.000		108794.19		P	2.3
9	☐	1.000		108938.28		P	1.3

89 Y (ISTD) [No Gas]

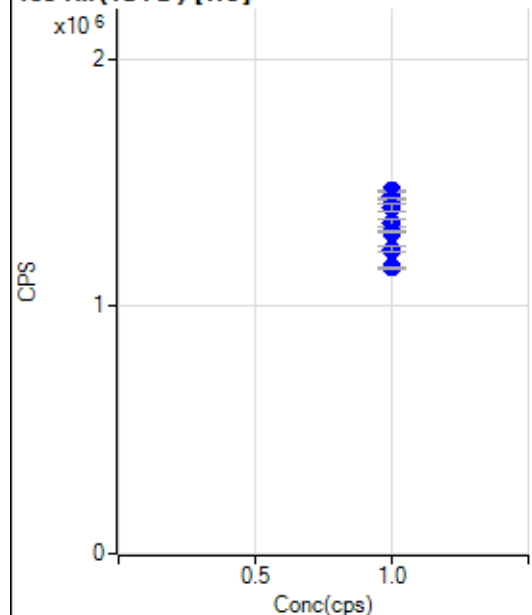
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3776204.22		P	0.7
2	☐	1.000					
3	☐	1.000		3713625.60		P	0.2
4	☐	1.000		3650294.21		P	1.0
5	☐	1.000		3625369.98		P	0.4
6	☐	1.000		3549582.38		P	2.6
7	☐	1.000		3516991.37		P	1.1
8	☐	1.000		3435522.73		P	0.3
9	☐	1.000		3298613.60		P	0.5

89 Y(ISTD) [He]

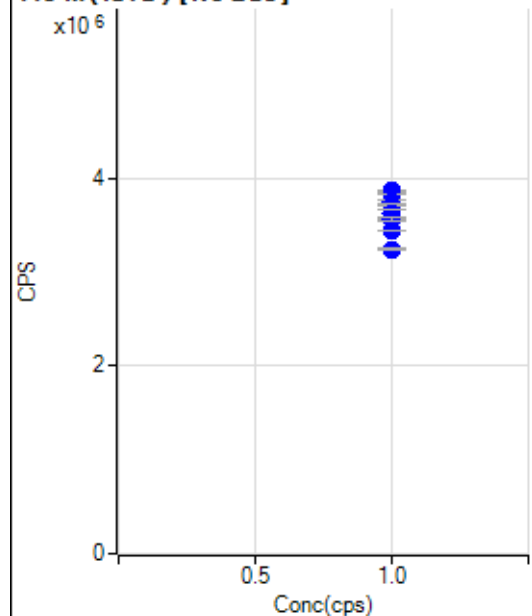
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		442790.71		P	0.6
2	☐	1.000					
3	☐	1.000		438299.53		P	1.3
4	☐	1.000		435642.87		P	0.8
5	☐	1.000		427403.99		P	2.2
6	☐	1.000		412262.55		P	2.0
7	☐	1.000		408055.86		P	0.8
8	☐	1.000		390039.73		P	1.9
9	☐	1.000		387188.49		P	1.0

103 Rh(ISTD) [No Gas]

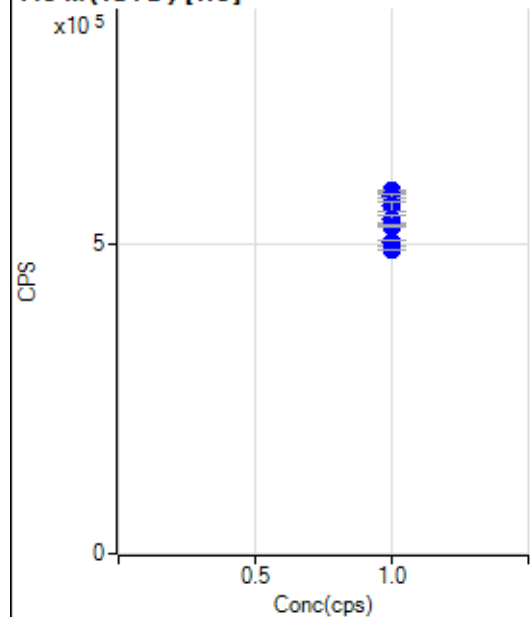
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3268411.49		P	0.6
2	☐	1.000					
3	☐	1.000		3230198.94		P	0.4
4	☐	1.000		3146469.86		P	1.2
5	☐	1.000		3096324.16		P	0.1
6	☐	1.000		3005811.74		P	2.5
7	☐	1.000		2931729.75		P	1.0
8	☐	1.000		2817754.23		P	0.5
9	☐	1.000		2592998.26		P	0.5

103 Rh (ISTD) [He]

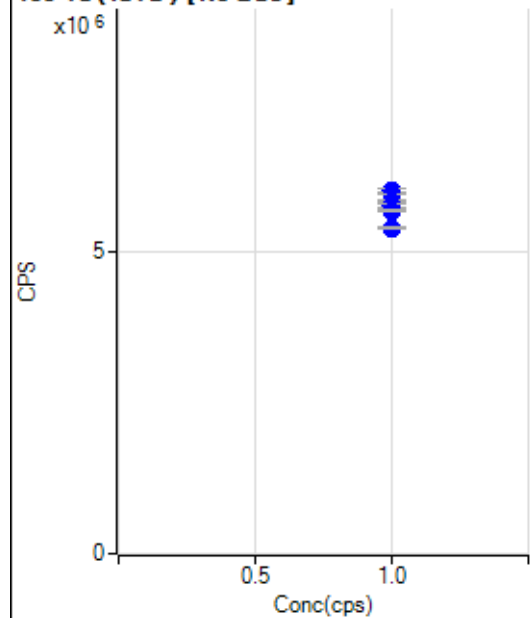
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1465671.52		P	0.4
2	☐	1.000					
3	☐	1.000		1444406.85		P	1.7
4	☐	1.000		1432823.05		P	0.7
5	☐	1.000		1395911.66		P	2.2
6	☐	1.000		1338993.80		P	2.3
7	☐	1.000		1299034.68		P	0.7
8	☐	1.000		1228537.93		P	1.8
9	☐	1.000		1154552.49		P	0.5

115 In (ISTD) [No Gas]

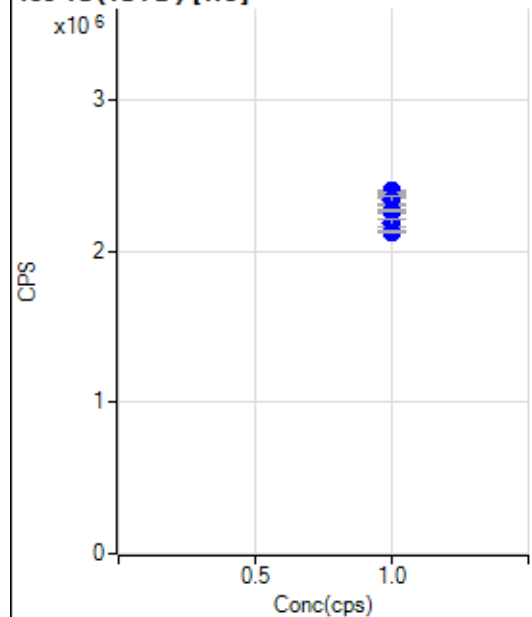
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3869302.01		P	0.5
2	☐	1.000					
3	☐	1.000		3832845.38		P	0.1
4	☐	1.000		3748396.29		P	1.4
5	☐	1.000		3716821.50		P	0.4
6	☐	1.000		3624560.59		P	3.1
7	☐	1.000		3576147.98		P	1.1
8	☐	1.000		3445501.44		P	0.6
9	☐	1.000		3244543.60		P	0.6

115 In (ISTD) [He]

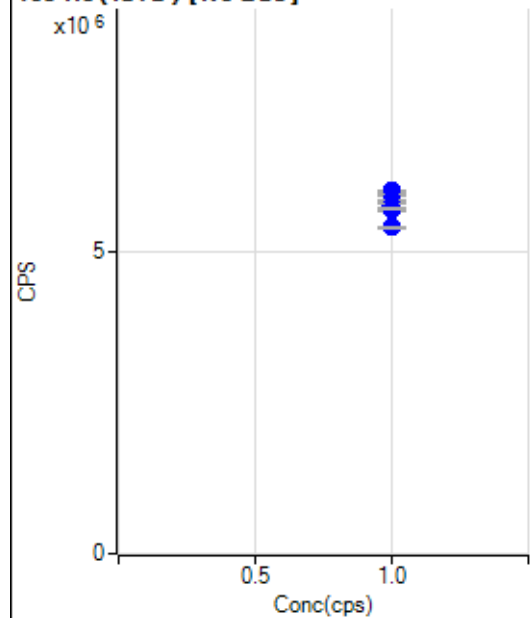
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		584959.66		P	0.8
2	☐	1.000					
3	☐	1.000		575517.67		P	1.2
4	☐	1.000		577117.84		P	0.8
5	☐	1.000		561120.39		P	2.8
6	☐	1.000		539006.52		P	1.9
7	☐	1.000		527989.06		P	0.6
8	☐	1.000		501290.04		P	2.0
9	☐	1.000		489538.54		P	0.4

159 Tb (ISTD) [No Gas]

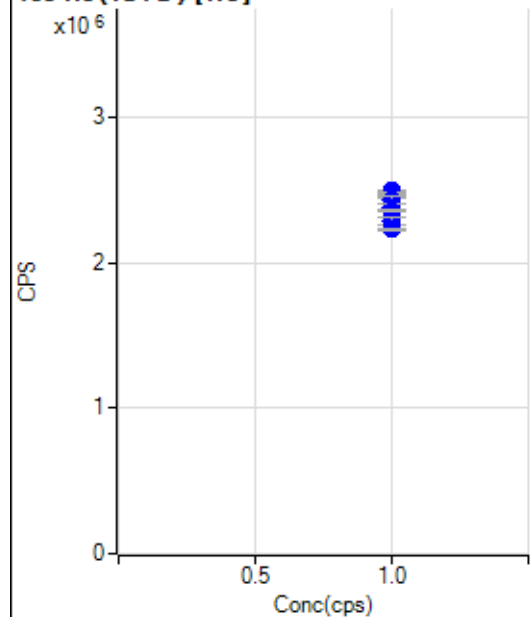
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6004946.51		P	1.1
2	☐	1.000					
3	☐	1.000		5940324.01		P	0.1
4	☐	1.000		5827827.34		P	0.7
5	☐	1.000		5835144.63		P	0.4
6	☐	1.000		5768952.00		P	2.7
7	☐	1.000		5754982.55		P	0.9
8	☐	1.000		5672489.36		P	0.7
9	☐	1.000		5389259.64		P	0.5

159 Tb (ISTD) [He]

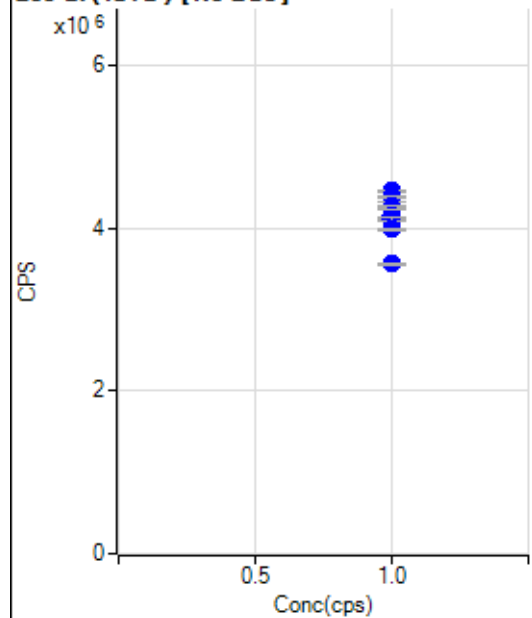
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2398916.66		P	0.4
2	☐	1.000					
3	☐	1.000		2366758.09		P	1.2
4	☐	1.000		2381304.88		P	0.7
5	☐	1.000		2337776.04		P	2.5
6	☐	1.000		2279730.24		P	2.3
7	☐	1.000		2268799.78		P	0.2
8	☐	1.000		2190831.55		P	2.2
9	☐	1.000		2128329.88		P	0.4

165 Ho (ISTD) [No Gas]

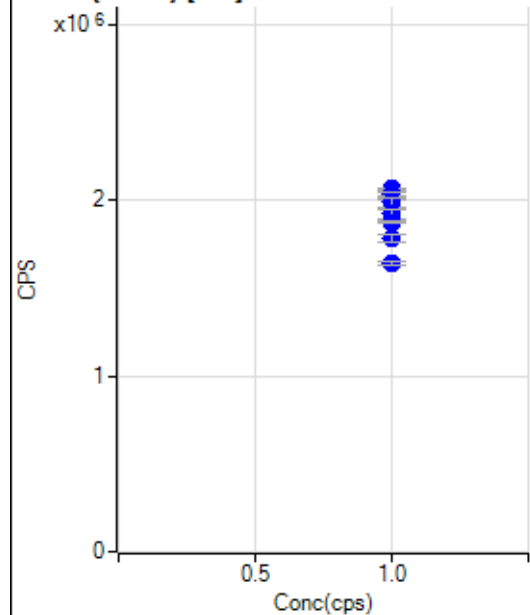
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6000769.06		P	0.7
2	☐	1.000					
3	☐	1.000		5936272.53		P	0.4
4	☐	1.000		5827499.30		P	0.9
5	☐	1.000		5842147.96		P	0.2
6	☐	1.000		5740497.13		P	2.3
7	☐	1.000		5767443.84		P	1.1
8	☐	1.000		5702263.23		P	0.5
9	☐	1.000		5395533.19		P	0.9

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2494482.12		P	0.7
2	☐	1.000					
3	☐	1.000		2458112.48		P	1.5
4	☐	1.000		2476447.45		P	0.8
5	☐	1.000		2432002.32		P	2.2
6	☐	1.000		2375602.52		P	2.4
7	☐	1.000		2357473.57		P	0.5
8	☐	1.000		2286578.16		P	2.4
9	☐	1.000		2230288.98		P	0.8

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4459623.82		P	0.8
2	☐	1.000					
3	☐	1.000		4391502.16		P	0.4
4	☐	1.000		4284174.42		P	1.7
5	☐	1.000		4264894.28		P	0.7
6	☐	1.000		4166525.73		P	2.9
7	☐	1.000		4114908.03		P	1.2
8	☐	1.000		3986692.03		P	0.2
9	☐	1.000		3566306.37		P	0.6

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2063954.59		P	0.4
2	☐	1.000					
3	☐	1.000		2020134.45		P	2.2
4	☐	1.000		2033452.66		P	1.2
5	☐	1.000		1986813.84		P	2.8
6	☐	1.000		1920488.53		P	2.7
7	☐	1.000		1874290.06		P	0.6
8	☐	1.000		1783251.59		P	3.0
9	☐	1.000		1640535.08		P	1.1

US EPA Tune Check Sample Report

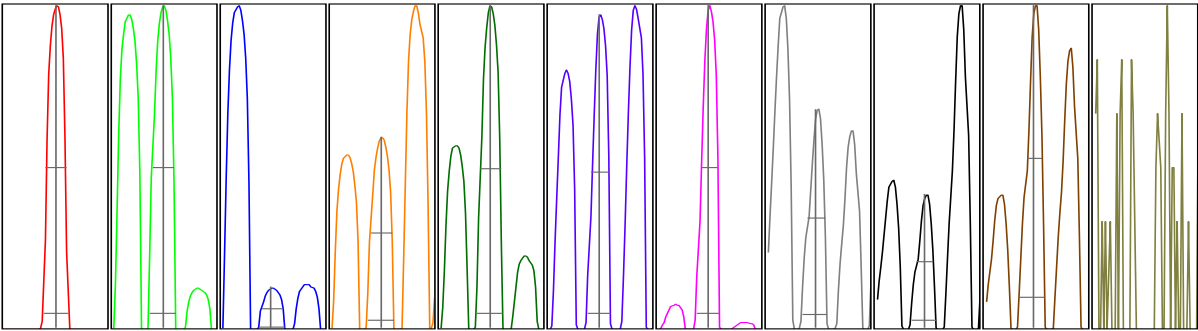
Batch Folder D:\ICP-MS Data\P7121517-MS.b
Report Comment
Instrument Name G8403A JP14410463

[No Gas]

Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)	RSD% (Flag)
9	7954	0.49	5.00	
24	76338	0.71	5.00	
25	9665	0.68	5.00	
26	10654	0.69	5.00	
59	26440	0.52	5.00	
113	3224	0.30	5.00	
115	43094	0.65	5.00	
206	13313	0.38	5.00	
207	12126	0.59	5.00	
208	28371	0.66	5.00	
220	0	108.65		

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
9	7904	7944	7940	7976	8007
24	76559	77046	76428	75608	76051
25	9690	9753	9660	9572	9648
26	10669	10757	10625	10555	10664
59	26284	26304	26480	26580	26550
113	3236	3221	3212	3232	3221
115	43471	43263	43087	42870	42781
206	13340	13254	13264	13359	13349
207	12125	12055	12057	12214	12180
208	28145	28290	28330	28446	28643
220	0	0	0	0	0

Integration Time [sec] = 0.1



Mass	Peak Height	Axis (Actual)	Axis (Required)	Axis (Flag)	Width-X% (Actual)	Width-X% (Required)	Width- X% (Flag)
9	14341	9.05	8.9 - 9.1		0.735	0.900	
24	126995	24.00	23.9 - 24.1		0.784	0.900	
25	16076	24.95	24.9 - 25.1		0.751	0.900	
26	17706	26.00	25.9 - 26.1		0.784	0.900	
59	47305	59.00	58.9 - 59.1		0.774	0.900	
113	6509	113.00	112.9 - 113.1		0.687	0.900	
115	87729	115.00	114.9 - 115.1		0.687	0.900	
206	27226	205.95	205.9 - 206.1		0.735	0.900	
207	24632	206.95	206.9 - 207.1		0.730	0.900	
208	59409	207.95	207.9 - 208.1		0.741	0.900	
220	0	219.55	-		0.175		

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

Tune Parameters

Plasma Paramters

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

Lenses Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Extract 1	0.0	V	Omega Lens	6.9	V	Deflect	12.2	V
Extract 2	-110.0	V	Cell Entrance	-30	V	Plate Bias	-35	V
Omega Bias	-60	V	Cell Exit	-50	V			

Cell Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Use Gas	No		OctP Bias	-8.0	V	Energy Discrimination	5.0	V
He Flow	0.0	mL/min	OctP RF	140	V			

[He]

Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)
59	6923	0.45	
89	55404	0.67	
205	10232	0.75	

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
59	6932	6924	6898	6892	6969
89	55461	55417	55134	55029	55978
205	10286	10177	10279	10126	10295

Integration Time [sec] = 0.1

Tune Parameters

Plasma Paramters

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

Lenses Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Extract 1	0.0	V	Omega Lens	7.1	V	Deflect	1.2	V
Extract 2	-125.0	V	Cell Entrance	-40	V	Plate Bias	-60	V
Omega Bias	-70	V	Cell Exit	-60	V			

Cell Parameters

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