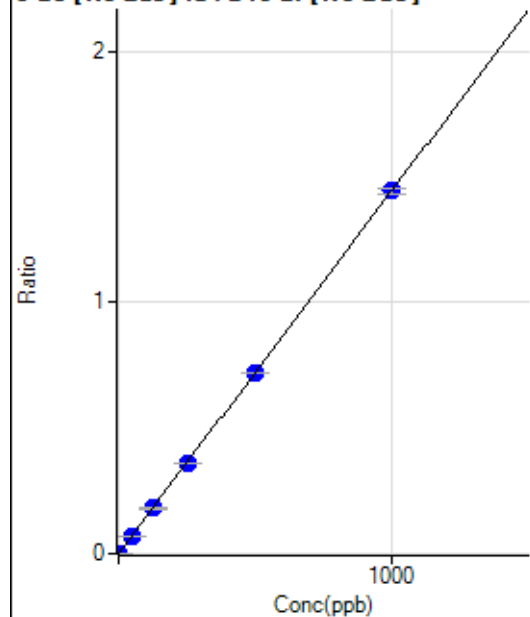


Calibration for 006CALS.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\P7081521MS.b\
 Analysis File: P7081521MS.batch.bin
 DA Date-Time: 2021-08-15 12:24:16
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	002CALB.d	S00	2021-08-15 08:43:38
2	003CALS.d	S02	2021-08-15 08:46:49
3	004CALS.d	S03	2021-08-15 08:49:59
4	005CALS.d	S04	2021-08-15 08:53:09
5	006CALS.d	S05	2021-08-15 08:56:18
6	007CALS.d	S06	2021-08-15 08:59:24
7	008CALS.d	S07	2021-08-15 09:02:26
8	009CALS.d	S08	2021-08-15 09:05:24

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	164.82	0.0002	P	17.9
2	☐	1.000	1.051	1668.64	0.0017	P	4.9
3	☐	50.000	49.029	71649.96	0.0709	P	0.8
4	☐	125.000	125.373	180631.45	0.1809	P	2.4
5	☐	250.000	248.975	355155.39	0.3592	P	1.1
6	☐	500.000	499.025	700920.87	0.7197	P	0.6
7	☐	1000.000	1000.746	1363433.81	1.4432	P	1.5
8	☐			931.53	0.0009	P	10.2

$$y = 0.0014 * x + 1.6851E-004$$

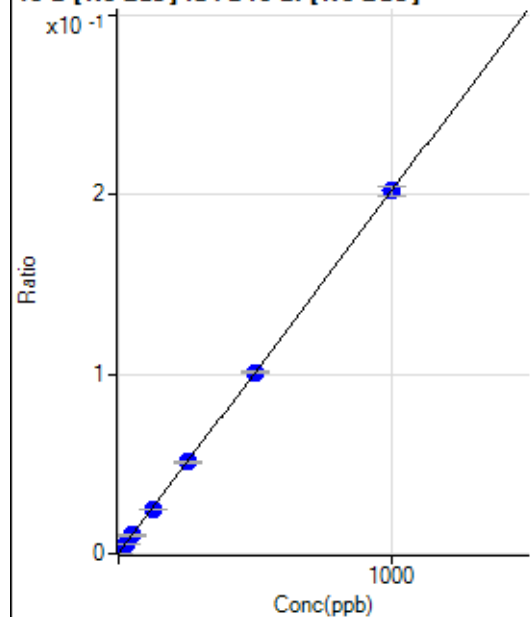
$$R = 1.0000$$

$$DL = 0.06287$$

$$BEC = 0.1169$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	147.22	0.0002	P	13.8
2	☐	25.000	24.583	5064.86	0.0051	P	2.4
3	☐	50.000	49.722	10298.18	0.0102	P	4.4
4	☐	125.000	122.773	24879.26	0.0249	P	1.4
5	☐	250.000	252.248	50473.36	0.0510	P	1.2
6	☐	500.000	499.152	98228.59	0.1009	P	0.7
7	☐	1000.000	1000.165	190779.21	0.2020	P	2.7
8	☐			2764.22	0.0027	P	2.9

$$y = 2.0177E-004 * x + 1.5037E-004$$

$$R = 1.0000$$

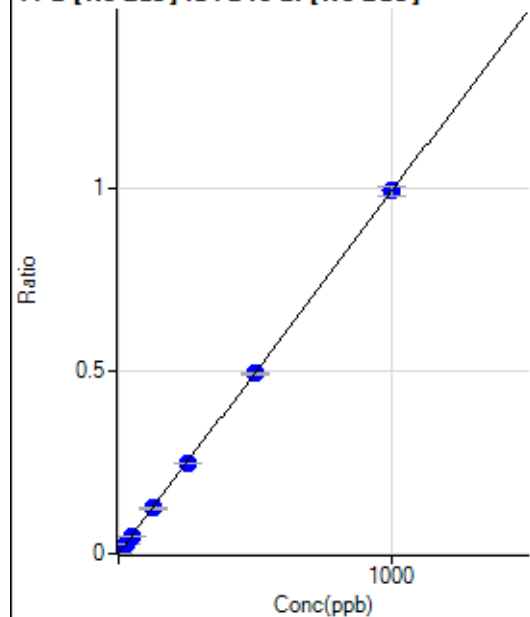
$$DL = 0.3086$$

$$BEC = 0.7452$$

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	669.47	0.0007	P	0.6
2	☐	25.000	24.985	25240.99	0.0255	P	2.6
3	☐	50.000	48.998	49832.55	0.0493	P	0.9
4	☐	125.000	125.115	124575.09	0.1248	P	2.4
5	☐	250.000	248.589	244501.57	0.2473	P	1.6
6	☐	500.000	497.481	481262.37	0.4942	P	0.7
7	☐	1000.000	1001.648	939298.27	0.9943	P	2.5
8	☐			12755.60	0.0122	P	2.7

$$y = 9.9198E-004 * x + 6.8396E-004$$

$$R = 1.0000$$

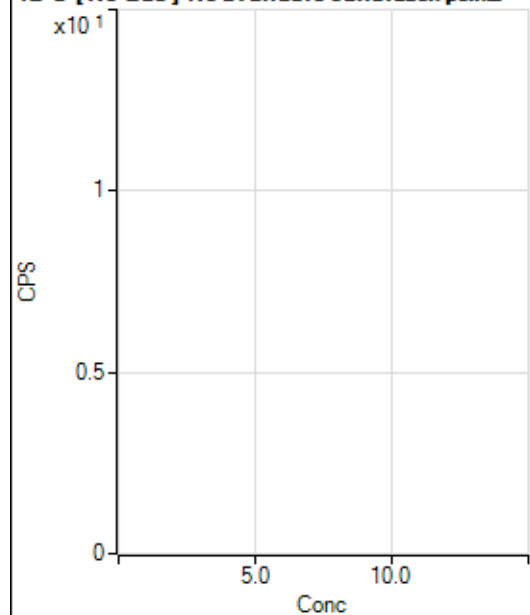
$$DL = 0.01262$$

$$BEC = 0.6895$$

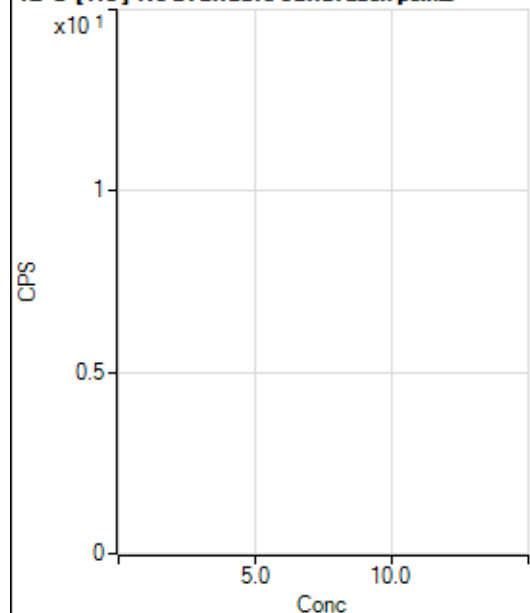
Weight: <None>

Min Conc: 0

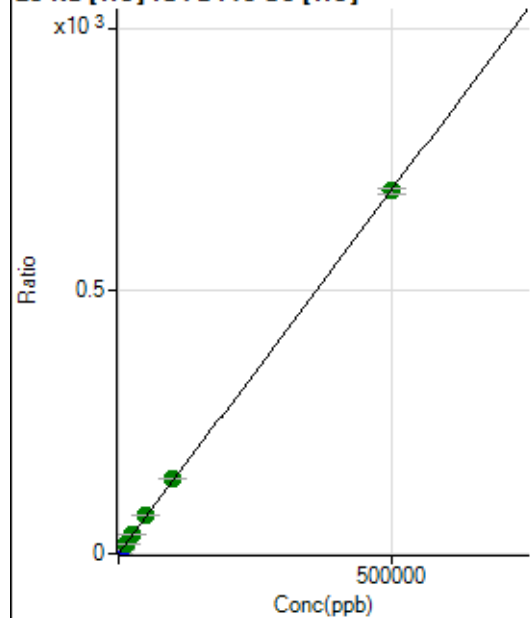
12 C [No Gas] No available calibration points



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	25341.28	0.0782	P	1.5
2	☐	500.000	581.829	287572.00	0.8831	P	1.0
3	☐	5000.000	5598.016	2450651.33	7.8222	P	1.7
4	☐	12500.000	13546.613	5825796.92	18.8179	A	1.9
5	☐	25000.000	26487.038	11322495.83	36.7189	A	0.5
6	☐	50000.000	52954.102	22532084.70	73.3320	A	1.1
7	☐	100000.00	102902.92	44167553.77	142.4285	A	1.2
8	☐	500000.00	499017.42	203681211.4	690.3917	A	1.8

$$y = 0.0014 * x + 0.0782$$

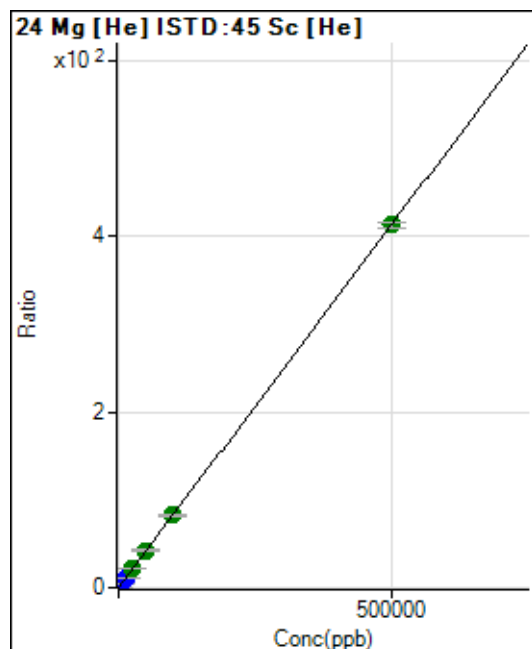
$$R = 1.0000$$

$$DL = 2.472$$

$$BEC = 56.53$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1622.35	0.0050	P	9.4
2	☐	500.000	547.087	148834.37	0.4570	P	0.3
3	☐	5000.000	5448.604	1412056.92	4.5070	P	1.4
4	☐	12500.000	13440.359	3439606.85	11.1102	P	1.2
5	☐	25000.000	25893.516	6598712.95	21.3997	A	0.4
6	☐	50000.000	51368.687	13042789.18	42.4488	A	1.2
7	☐	100000.00	99415.919	25475100.39	82.1482	A	0.9
8	☐	500000.00	499907.23	121861774.9	413.0572	A	1.7

$$y = 8.2626\text{E-}004 * x + 0.0050$$

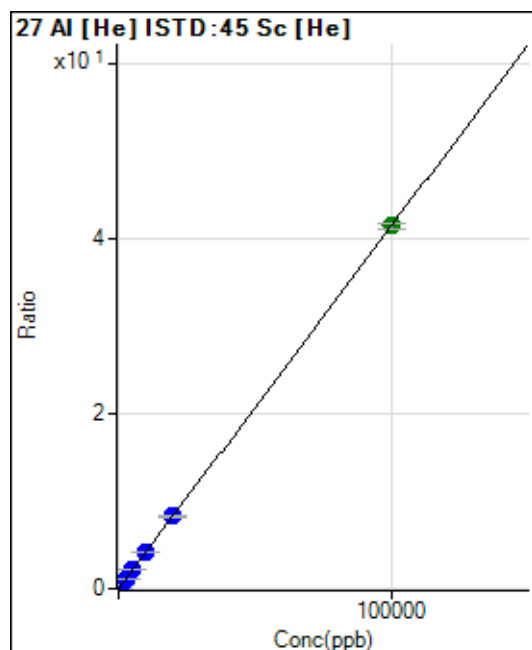
$$R = 1.0000$$

$$DL = 1.713$$

$$BEC = 6.059$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	263.90	0.0008	P	6.5
2	☐	20.000	22.429	3297.66	0.0101	P	8.4
3	☐	1000.000	1070.435	139505.74	0.4453	P	0.6
4	☐	2500.000	2618.455	336829.59	1.0880	P	1.1
5	☐	5000.000	5190.123	664734.71	2.1557	P	0.8
6	☐	10000.000	10212.307	1303084.74	4.2409	P	0.3
7	☐	20000.000	19928.600	2566089.79	8.2751	P	1.5
8	☐	100000.00	99979.877	12247194.54	41.5120	A	1.7

$$y = 4.1520\text{E-}004 * x + 8.1437\text{E-}004$$

$$R = 1.0000$$

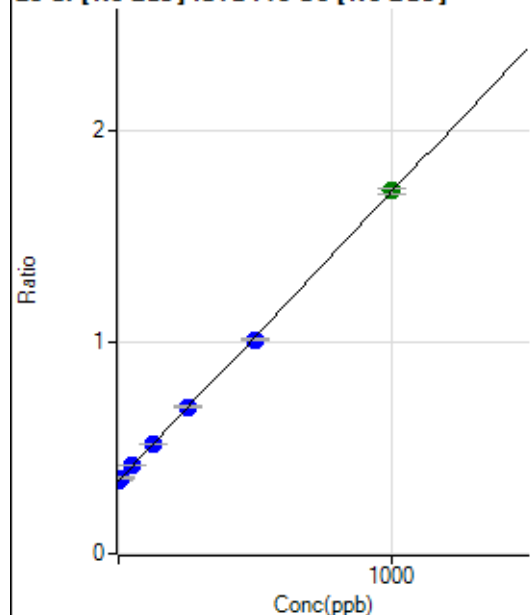
$$DL = 0.3854$$

$$BEC = 1.961$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1132544.54	0.3440	P	0.8
2	☐	10.000	9.790	1177678.90	0.3574	P	1.5
3	☐	50.000	54.355	1358164.77	0.4182	P	0.5
4	☐	125.000	127.487	1667494.58	0.5180	P	1.0
5	☐	250.000	256.316	2223892.95	0.6938	P	1.1
6	☐	500.000	489.561	3253353.83	1.0120	P	0.5
7	☐	1000.000	1003.114	5426891.40	1.7126	A	1.6
8	☐			1286053.93	0.4176	P	2.1

$$y = 0.0014 * x + 0.3440$$

$$R = 0.9999$$

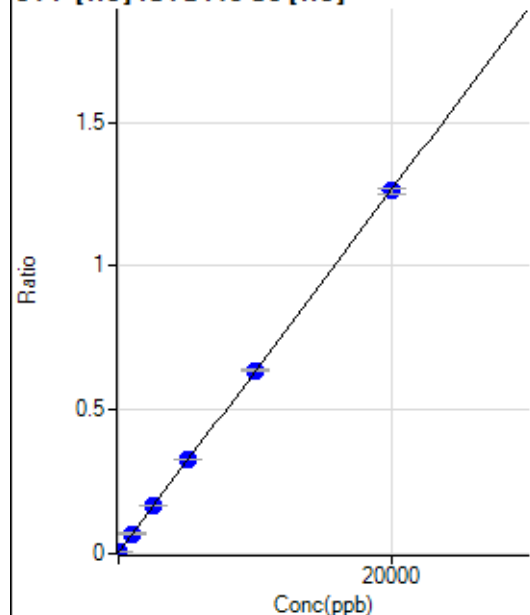
$$DL = 5.771$$

$$BEC = 252.2$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-4.500	1450.11	0.0045	P	6.3
2	☐	0.000	4.500	1641.80	0.0050	P	4.9
3	☐	1000.000	1032.130	21866.53	0.0698	P	2.5
4	☐	2500.000	2535.966	50934.42	0.1645	P	0.5
5	☐	5000.000	5092.299	100389.16	0.3256	P	0.3
6	☐	10000.000	10055.515	196107.10	0.6382	P	1.2
7	☐	20000.000	19943.065	391085.48	1.2611	P	1.3
8	☐			1458.45	0.0049	P	9.9

$$y = 6.2999E-005 * x + 0.0048$$

$$R = 1.0000$$

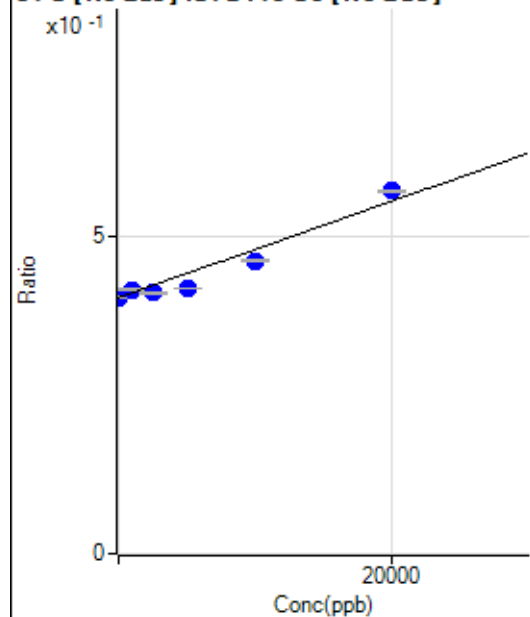
$$DL = 12.53$$

$$BEC = 75.54$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-69.140	1327996.82	0.4034	P	0.8
2	☐	0.000	69.140	1332816.68	0.4045	P	1.2
3	☐	1000.000	1608.740	1351540.98	0.4162	P	0.7
4	☐	2500.000	968.259	1324130.86	0.4113	P	0.5
5	☐	5000.000	1955.181	1342606.30	0.4188	P	0.5
6	☐	10000.000	7591.932	1483944.51	0.4616	P	0.5
7	☐	20000.000	22126.270	1812301.41	0.5719	P	0.7
8	☐			1114596.48	0.3622	P	4.9

$$y = 7.5914\text{E-}006 * x + 0.4040$$

$$R = 0.9764$$

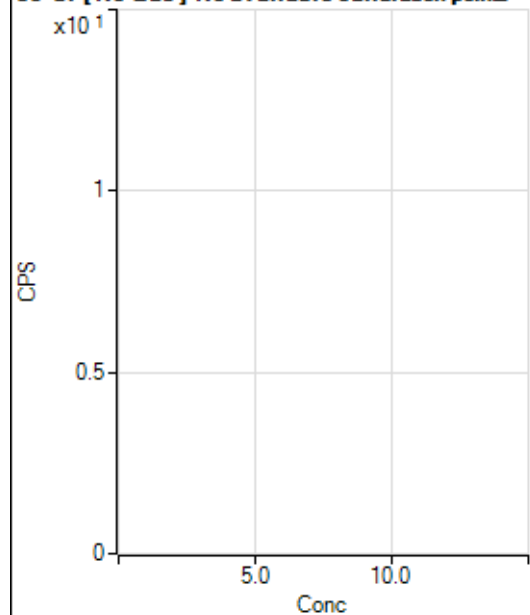
$$DL = 1639$$

$$BEC = 5.321\text{E}+04$$

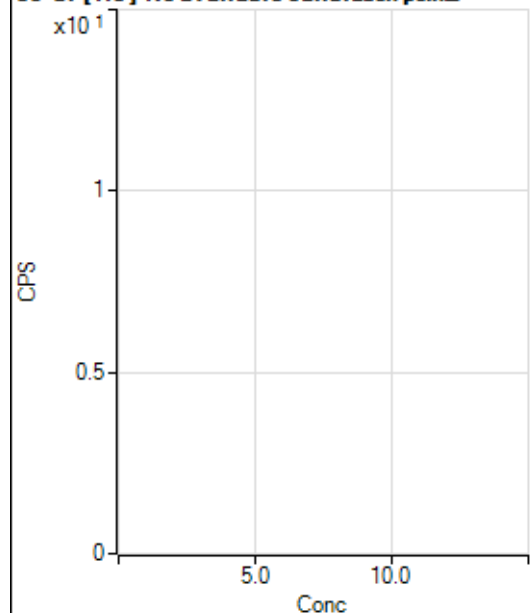
Weight: <None>

Min Conc: 0

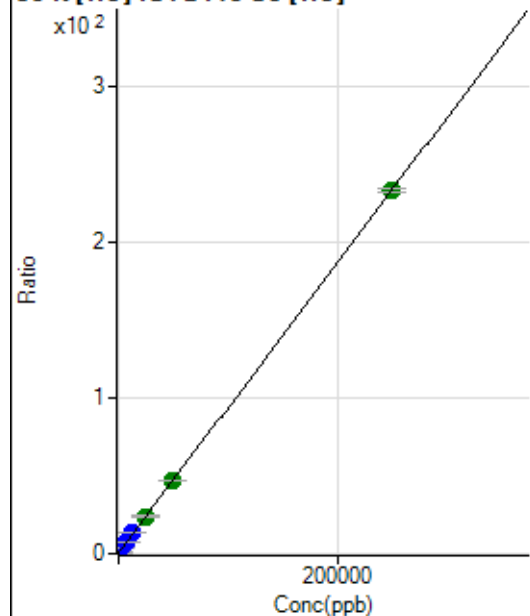
35 Cl [No Gas] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	165296.94	0.5101	P	1.0
2	☐	500.000	580.036	341817.70	1.0496	P	0.5
3	☐	2500.000	2834.821	985976.80	3.1471	P	1.5
4	☐	6250.000	6943.776	2157602.15	6.9692	P	0.7
5	☐	12500.000	13772.292	4107607.90	13.3211	P	0.3
6	☐	25000.000	25335.299	7398126.21	24.0771	A	0.4
7	☐	50000.000	49898.200	14552332.44	46.9255	A	0.7
8	☐	250000.00	249902.36	68734584.17	232.9699	A	1.1

$$y = 9.3020\text{E-}004 * x + 0.5101$$

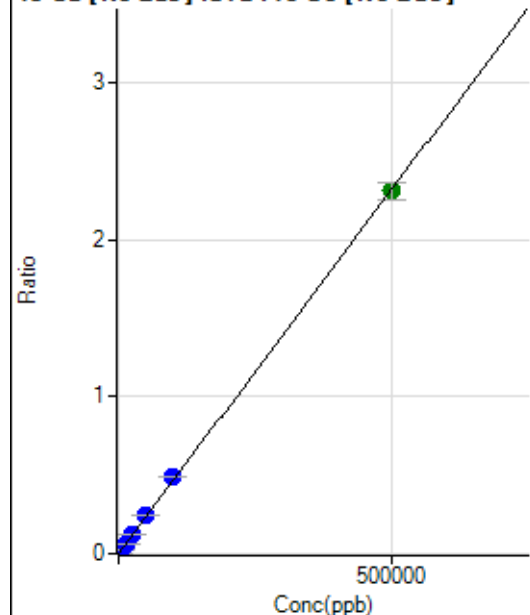
$$R = 1.0000$$

$$DL = 16.56$$

$$BEC = 548.4$$

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	508.35	0.0002	P	22.9
2	☐	500.000	580.363	9389.30	0.0028	P	3.7
3	☐	5000.000	5434.143	82459.64	0.0254	P	2.0
4	☐	12500.000	13573.278	203433.81	0.0632	P	0.9
5	☐	25000.000	26951.223	401747.97	0.1253	P	1.1
6	☐	50000.000	53202.896	794872.51	0.2472	P	0.5
7	☐	100000.00	105745.18	1556693.43	0.4913	P	1.8
8	☐	500000.00	498401.85	7124808.84	2.3149	A	4.5

$$y = 4.6444\text{E-}006 * x + 1.5442\text{E-}004$$

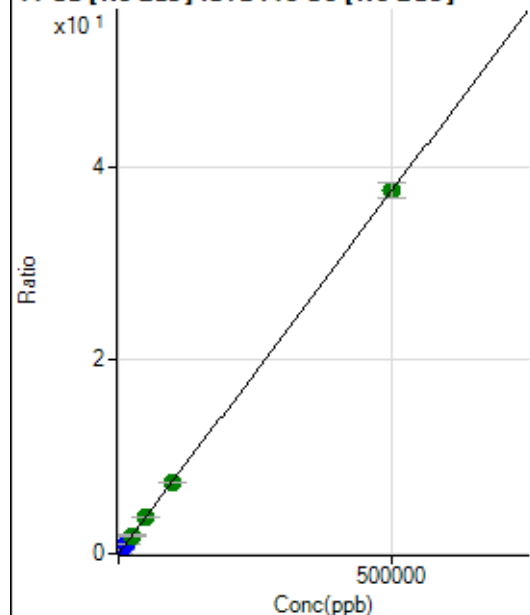
$$R = 0.9999$$

$$DL = 22.83$$

$$BEC = 33.25$$

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	25466.81	0.0077	P	1.8
2	☐	500.000	565.229	164988.03	0.0501	P	1.9
3	☐	5000.000	5451.518	1351168.37	0.4161	P	0.6
4	☐	12500.000	13461.641	3270669.60	1.0160	P	1.6
5	☐	25000.000	24902.987	6003570.36	1.8730	A	2.1
6	☐	50000.000	49432.390	11927910.77	3.7102	A	0.7
7	☐	100000.00	98383.026	23374631.25	7.3766	A	1.2
8	☐	500000.00	500356.38	115376047.0	37.4844	A	4.2

$$y = 7.4900\text{E-}005 * x + 0.0077$$

$$R = 1.0000$$

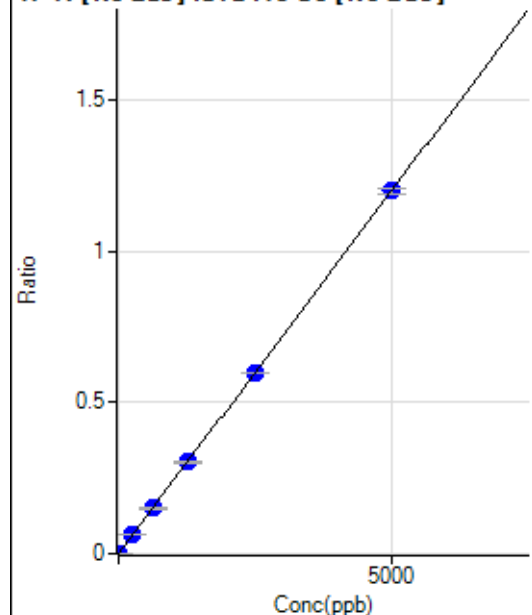
$$DL = 5.656$$

$$BEC = 103.3$$

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	266.67	0.0001	P	13.7
2	☐	5.000	5.070	4267.41	0.0013	P	5.5
3	☐	250.000	255.085	198694.03	0.0612	P	0.9
4	☐	625.000	624.878	482111.52	0.1498	P	1.2
5	☐	1250.000	1262.937	970017.16	0.3026	P	1.1
6	☐	2500.000	2491.867	1919178.86	0.5970	P	0.5
7	☐	5000.000	5000.593	3795829.21	1.1979	P	1.3
8	☐			1322.32	0.0004	P	4.2

$$y = 2.3954\text{E-}004 * x + 8.0968\text{E-}005$$

R = 1.0000

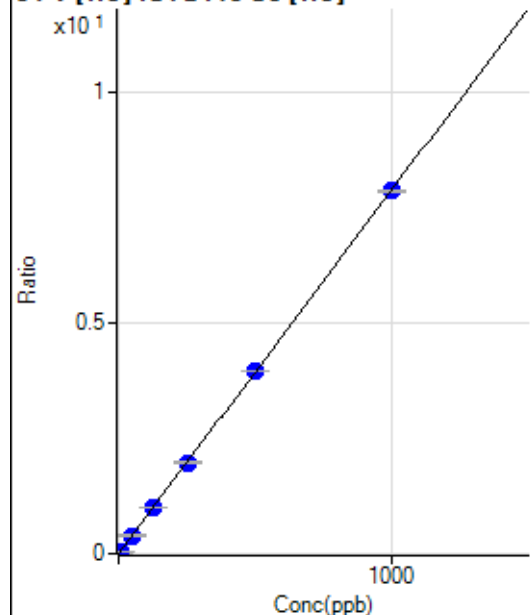
DL = 0.1394

BEC = 0.338

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	17.78	0.0001	P	47.0
2	☐	5.000	5.260	13517.38	0.0415	P	1.7
3	☐	50.000	50.213	124008.88	0.3958	P	1.5
4	☐	125.000	126.082	307662.94	0.9938	P	0.7
5	☐	250.000	250.716	609337.25	1.9761	P	0.5
6	☐	500.000	502.823	1217715.03	3.9631	P	0.1
7	☐	1000.000	998.262	2439957.48	7.8679	P	0.5
8	☐			642.24	0.0022	P	5.5

$$y = 0.0079 * x + 5.4849\text{E-}005$$

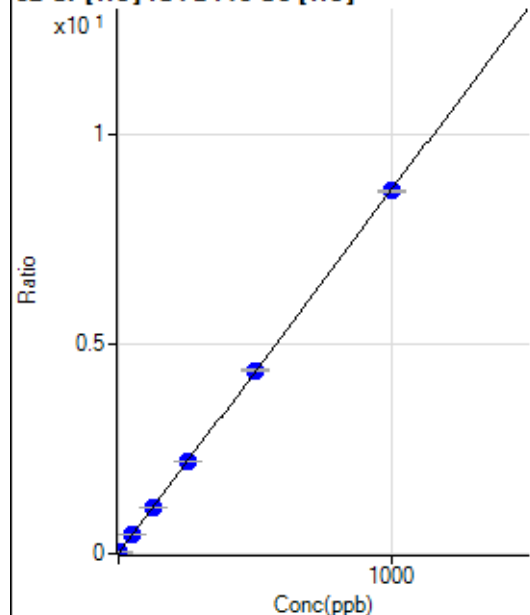
R = 1.0000

DL = 0.009813

BEC = 0.006959

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	2055.72	0.0063	P	1.6
2	☐	2.000	2.131	8084.50	0.0248	P	1.7
3	☐	50.000	51.246	141239.85	0.4508	P	1.2
4	☐	125.000	128.054	345803.69	1.1170	P	0.5
5	☐	250.000	251.793	675342.13	2.1902	P	0.5
6	☐	500.000	503.949	1344932.01	4.3772	P	0.8
7	☐	1000.000	997.133	2683972.88	8.6546	P	0.2
8	☐			6783.83	0.0230	P	3.7

$$y = 0.0087 * x + 0.0063$$

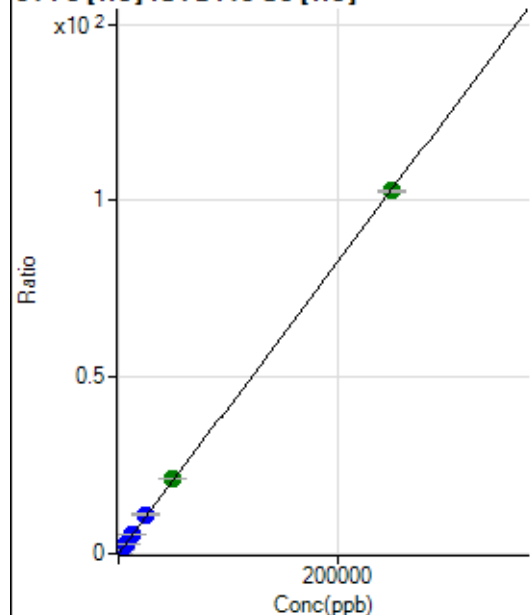
$$R = 1.0000$$

$$DL = 0.03593$$

$$BEC = 0.7315$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	3781.08	0.0117	P	9.1
2	☐	50.000	58.373	11629.90	0.0357	P	4.5
3	☐	2500.000	2767.409	360886.89	1.1518	P	1.2
4	☐	6250.000	6868.575	879713.77	2.8415	P	0.7
5	☐	12500.000	13411.865	1707469.38	5.5374	P	0.2
6	☐	25000.000	26978.135	3418802.12	11.1267	P	0.9
7	☐	50000.000	51648.819	6602595.02	21.2910	A	1.2
8	☐	250000.00	249408.68	30323157.72	102.7684	A	0.6

$$y = 4.1200E-004 * x + 0.0117$$

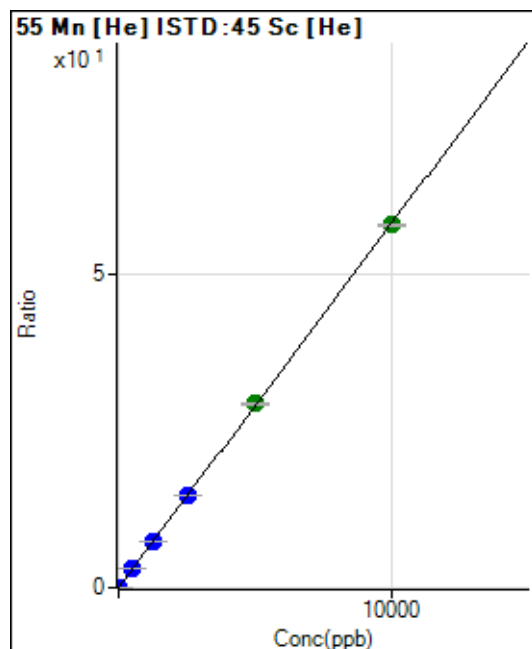
$$R = 1.0000$$

$$DL = 7.721$$

$$BEC = 28.32$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	410.01	0.0013	P	14.2
2	☐	1.000	1.111	2513.57	0.0077	P	2.4
3	☐	500.000	522.724	951540.05	3.0372	P	1.6
4	☐	1250.000	1285.833	2312386.68	7.4692	P	0.6
5	☐	2500.000	2539.459	4548195.97	14.7500	P	0.3
6	☐	5000.000	5047.592	9007995.63	29.3168	A	1.1
7	☐	10000.000	9960.724	17940793.62	57.8515	A	0.4
8	☐			10034.61	0.0340	P	1.4

$$y = 0.0058 * x + 0.0013$$

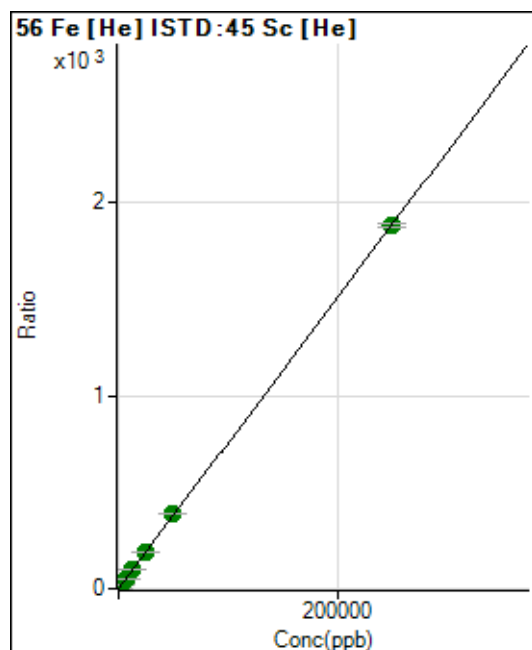
$$R = 1.0000$$

$$DL = 0.09288$$

$$BEC = 0.2179$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	11804.89	0.0364	P	1.4
2	☐	50.000	56.800	151100.98	0.4640	P	0.9
3	☐	2500.000	2601.390	6146804.94	19.6196	A	1.7
4	☐	6250.000	6422.297	14979020.94	48.3833	A	0.6
5	☐	12500.000	12859.155	29860797.20	96.8397	A	0.8
6	☐	25000.000	25700.493	59459000.87	193.5089	A	0.5
7	☐	50000.000	51092.716	119291118.4	384.6608	A	0.3
8	☐	250000.00	249688.12	554603990.1	1,879.680	A	1.2

$$y = 0.0075 * x + 0.0364$$

$$R = 1.0000$$

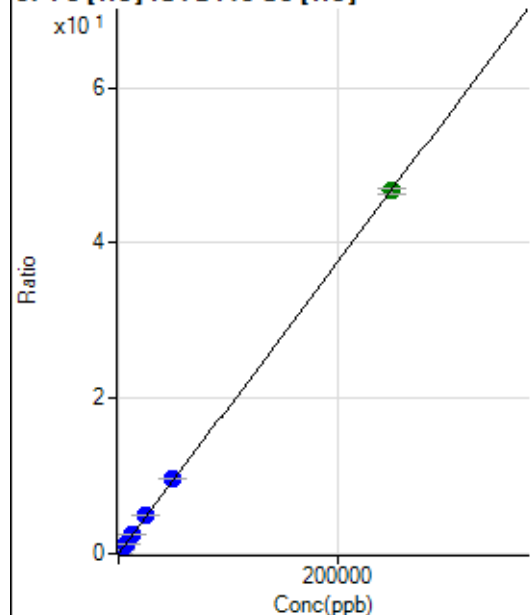
$$DL = 0.2064$$

$$BEC = 4.839$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1514.92	0.0047	P	5.7
2	☐	50.000	56.949	4993.52	0.0153	P	1.8
3	☐	2500.000	2676.419	158412.03	0.5056	P	1.5
4	☐	6250.000	6592.542	383464.09	1.2386	P	0.4
5	☐	12500.000	13198.112	763180.77	2.4750	P	0.8
6	☐	25000.000	26096.213	1502265.77	4.8891	P	0.2
7	☐	50000.000	51708.766	3002857.56	9.6831	P	0.7
8	☐	250000.00	249503.39	13779111.88	46.7047	A	1.6

$$y = 1.8717\text{E-}004 * x + 0.0047$$

R = 1.0000

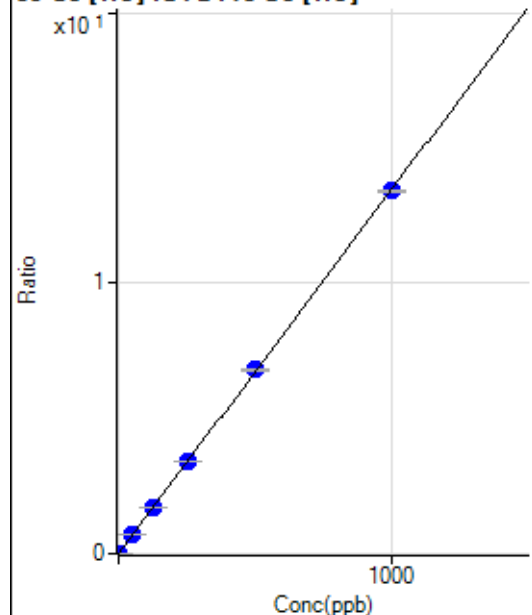
DL = 4.244

BEC = 24.97

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	116.67	0.0004	P	22.2
2	☐	1.000	1.109	4979.78	0.0153	P	3.1
3	☐	50.000	51.991	219506.53	0.7006	P	0.4
4	☐	125.000	127.997	533807.60	1.7242	P	0.9
5	☐	250.000	252.678	1049448.71	3.4034	P	0.8
6	☐	500.000	504.560	2088114.87	6.7958	P	0.3
7	☐	1000.000	996.576	4162474.21	13.4223	P	0.5
8	☐			6188.04	0.0210	P	2.0

$$y = 0.0135 * x + 3.5996\text{E-}004$$

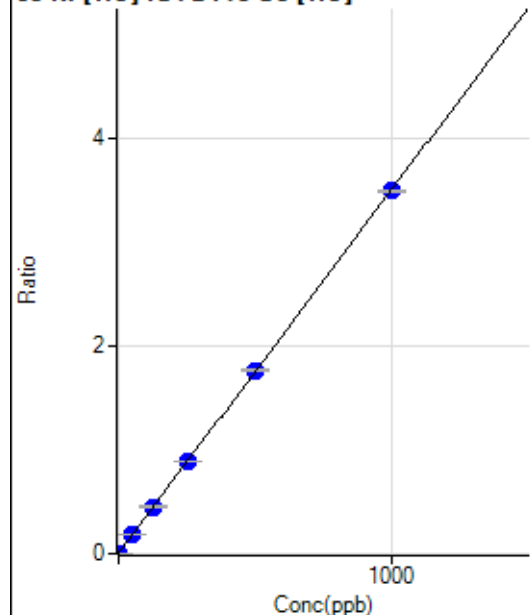
R = 1.0000

DL = 0.01779

BEC = 0.02673

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1474.53	0.0046	P	2.1
2	☐	1.000	1.106	2739.18	0.0084	P	4.2
3	☐	50.000	52.229	58562.98	0.1869	P	0.9
4	☐	125.000	128.222	140015.31	0.4523	P	0.3
5	☐	250.000	253.832	274689.52	0.8908	P	1.2
6	☐	500.000	502.983	541032.35	1.7608	P	0.7
7	☐	1000.000	997.037	1081015.89	3.4859	P	0.9
8	☐			3258.17	0.0110	P	2.8

$$y = 0.0035 * x + 0.0046$$

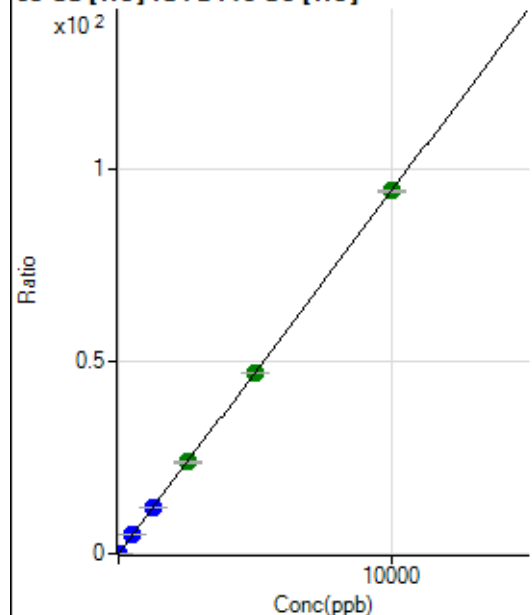
$$R = 1.0000$$

$$DL = 0.08109$$

$$BEC = 1.303$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	3395.98	0.0105	P	2.6
2	☐	2.000	2.010	9576.52	0.0294	P	2.6
3	☐	500.000	509.780	1507715.50	4.8120	P	1.0
4	☐	1250.000	1262.180	3683773.80	11.8988	P	0.5
5	☐	2500.000	2523.010	7330912.05	23.7744	A	1.2
6	☐	5000.000	4983.464	14425892.84	46.9491	A	0.5
7	☐	10000.000	10000.504	29215065.40	94.2040	A	0.7
8	☐			11591.33	0.0393	P	1.4

$$y = 0.0094 * x + 0.0105$$

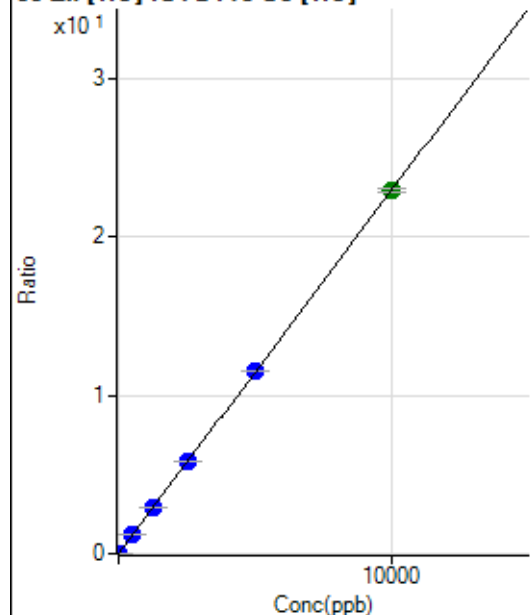
$$R = 1.0000$$

$$DL = 0.08572$$

$$BEC = 1.113$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	596.68	0.0018	P	5.3
2	☐	2.000	2.119	2181.29	0.0067	P	1.4
3	☐	500.000	514.962	370492.05	1.1825	P	0.3
4	☐	1250.000	1275.347	905788.31	2.9258	P	0.7
5	☐	2500.000	2528.879	1788355.03	5.7997	P	0.2
6	☐	5000.000	5005.542	3526734.70	11.4778	P	0.2
7	☐	10000.000	9986.093	7100352.81	22.8964	A	1.1
8	☐			19384.06	0.0657	P	1.7

$$y = 0.0023 * x + 0.0018$$

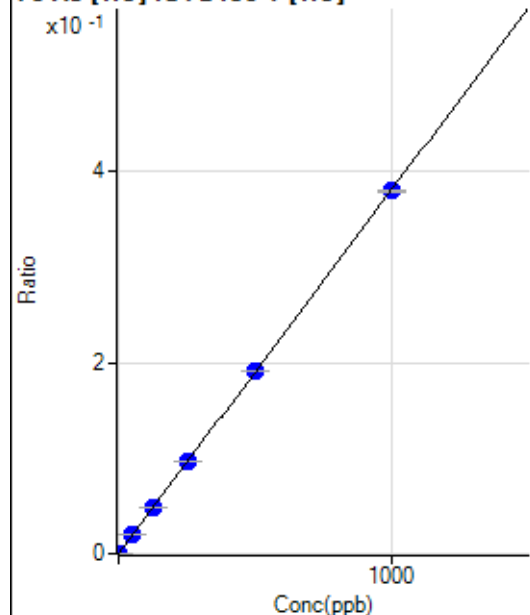
$$R = 1.0000$$

$$DL = 0.1286$$

$$BEC = 0.8031$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	15.43	0.0000	P	30.6
2	☐	1.000	1.080	964.85	0.0004	P	5.7
3	☐	50.000	50.600	43000.94	0.0193	P	0.4
4	☐	125.000	127.492	107276.48	0.0486	P	0.8
5	☐	250.000	252.039	211909.49	0.0960	P	0.5
6	☐	500.000	503.357	423799.98	0.1917	P	0.5
7	☐	1000.000	997.470	846829.46	0.3799	P	0.3
8	☐			363.59	0.0002	P	2.1

$$y = 3.8082E-004 * x + 6.6660E-006$$

$$R = 1.0000$$

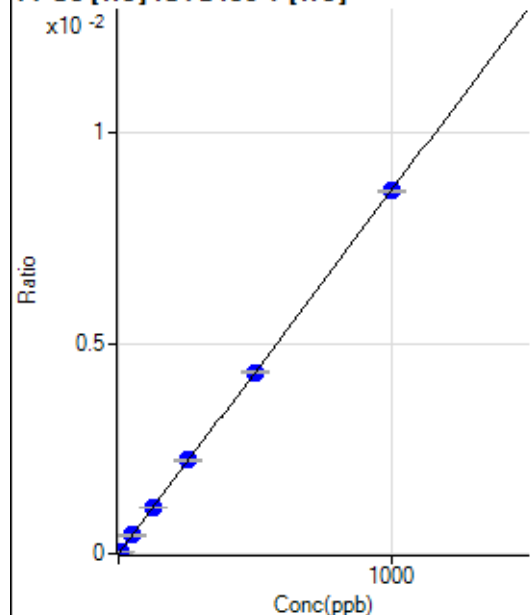
$$DL = 0.01608$$

$$BEC = 0.0175$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1.11	0.0000	P	173.
2	☐	5.000	4.961	100.00	0.0000	P	17.9
3	☐	50.000	50.588	974.49	0.0004	P	6.9
4	☐	125.000	126.192	2406.89	0.0011	P	0.5
5	☐	250.000	257.734	4910.87	0.0022	P	1.0
6	☐	500.000	498.785	9516.54	0.0043	P	0.6
7	☐	1000.000	998.496	19209.49	0.0086	P	0.8
8	☐			4.44	0.0000	P	42.7

$$y = 8.6291\text{E-}006 * x + 4.7866\text{E-}007$$

$$R = 1.0000$$

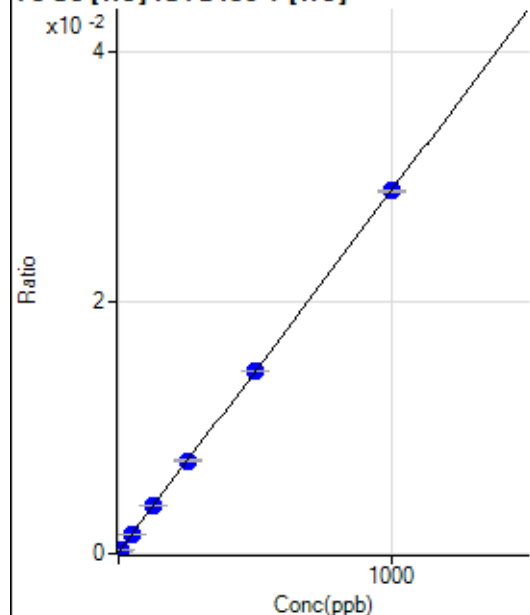
$$DL = 0.2882$$

$$BEC = 0.05547$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	279.63	0.0001	P	5.5
2	☐	5.000	6.016	678.42	0.0003	P	4.9
3	☐	50.000	49.767	3465.25	0.0016	P	2.9
4	☐	125.000	126.998	8342.55	0.0038	P	0.5
5	☐	250.000	252.415	16305.48	0.0074	P	1.4
6	☐	500.000	501.072	32151.52	0.0145	P	0.6
7	☐	1000.000	998.617	64346.65	0.0289	P	0.6
8	☐			267.29	0.0001	P	4.4

$$y = 2.8783\text{E-}005 * x + 1.2072\text{E-}004$$

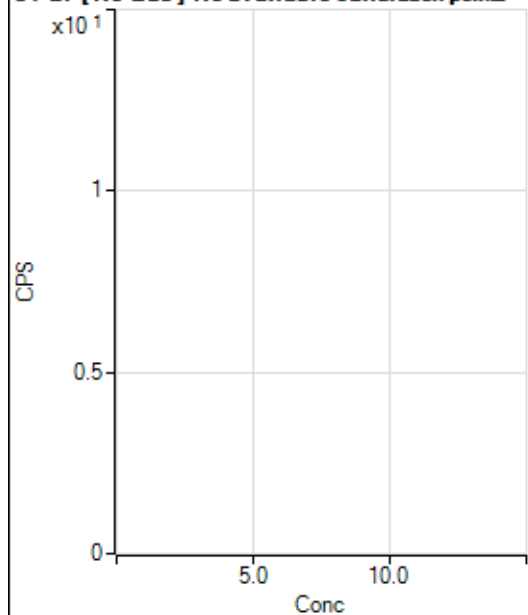
$$R = 1.0000$$

$$DL = 0.6904$$

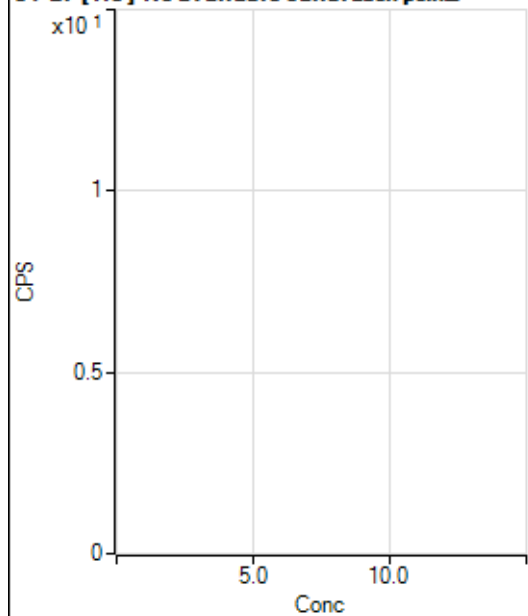
$$BEC = 4.194$$

Weight: <None>

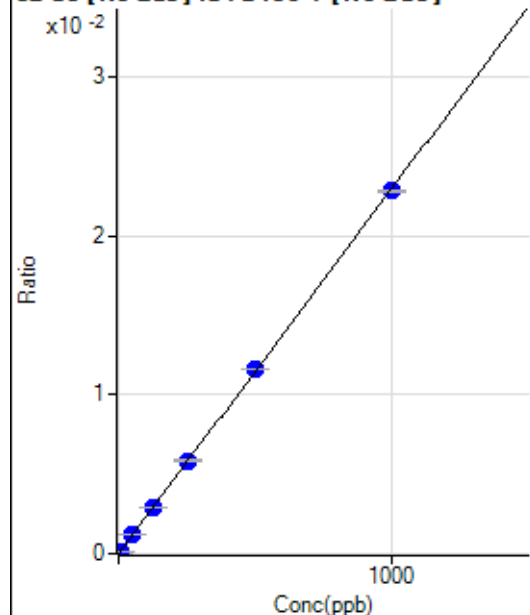
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1125.08		P	2.0
2	☐			1013.95		P	17.7
3	☐			991.73		P	5.2
4	☐			1152.86		P	7.1
5	☐			1147.30		P	5.9
6	☐			1175.08		P	10.7
7	☐			1238.97		P	6.8
8	☐			1680.70		P	8.7

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			36.70		P	15.7
2	☐			46.71		P	53.9
3	☐			23.36		P	65.5
4	☐			33.37		P	45.8
5	☐			70.07		P	86.9
6	☐			26.69		P	94.4
7	☐			56.72		P	40.8
8	☐			73.41		P	41.7

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	-45.23	0.0000	P	-7.2
2	☐	5.000	5.401	983.67	0.0001	P	7.2
3	☐	50.000	50.804	9471.36	0.0012	P	0.6
4	☐	125.000	127.103	23433.14	0.0029	P	1.5
5	☐	250.000	255.011	46885.28	0.0059	P	1.1
6	☐	500.000	506.890	92426.23	0.0116	P	0.5
7	☐	1000.000	994.998	184440.03	0.0229	P	0.6
8	☐			39.26	0.0000	P	59.1

$$y = 2.2973E-005 * x - 5.5701E-006$$

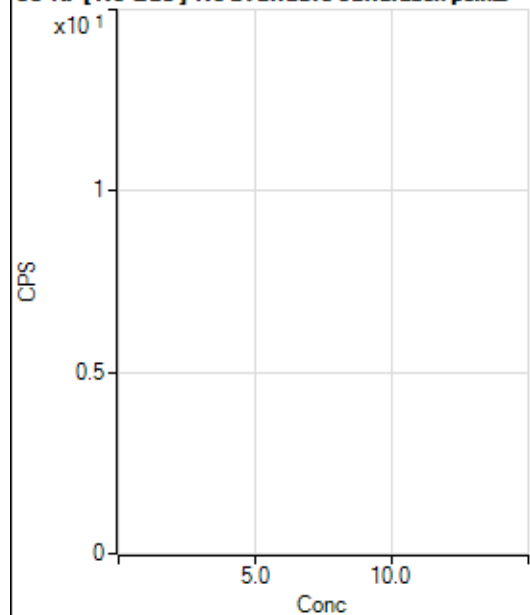
$$R = 1.0000$$

$$DL = 0.05232$$

$$BEC = -0.2425$$

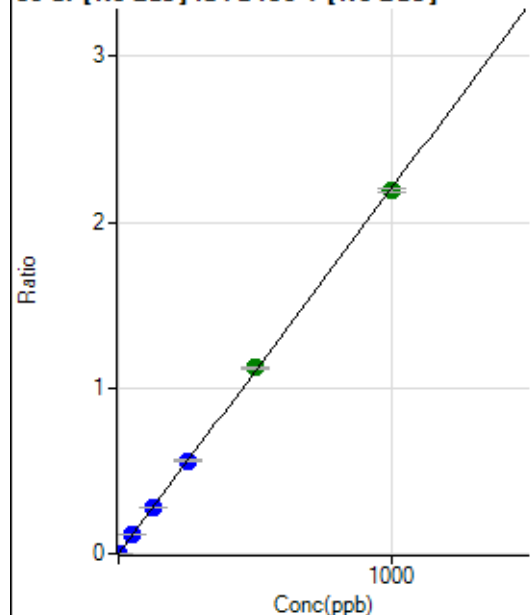
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			863.37		P	1.5
2	☐			830.03		P	7.9
3	☐			872.26		P	5.8
4	☐			805.59		P	4.1
5	☐			832.26		P	8.8
6	☐			844.48		P	8.3
7	☐			890.04		P	2.3
8	☐			820.03		P	2.1

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1419.55	0.0002	P	9.6
2	☐	1.000	0.117	3586.67	0.0004	P	1.9
3	☐	50.000	52.198	939680.89	0.1152	P	0.8
4	☐	125.000	127.552	2262220.32	0.2813	P	1.0
5	☐	250.000	255.061	4505192.11	0.5624	P	2.0
6	☐	500.000	510.455	8936736.31	1.1254	A	1.1
7	☐	1000.000	993.079	17668904.91	2.1893	A	1.1
8	☐			8608.35	0.0011	P	3.4

$$y = 0.0022 * x + 1.7483E-004$$

$$R = 0.9999$$

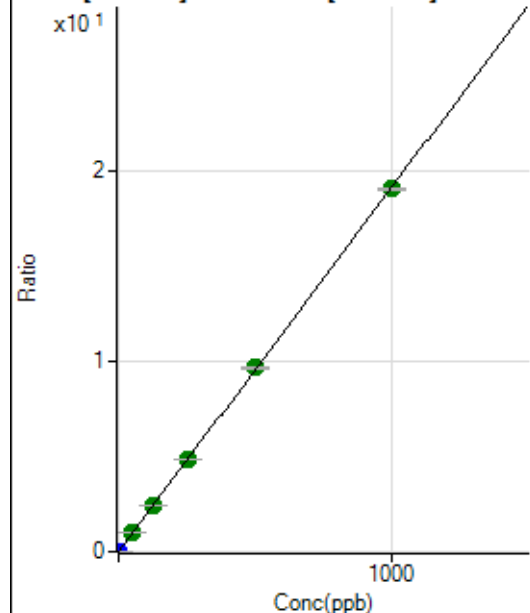
$$DL = 0.02293$$

$$BEC = 0.07931$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	750.04	0.0001	P	13.4
2	☐	1.000	0.116	19229.95	0.0023	P	2.5
3	☐	50.000	51.355	8009556.25	0.9823	A	1.3
4	☐	125.000	126.504	19454460.33	2.4195	A	1.2
5	☐	250.000	252.744	38723446.35	4.8339	A	1.0
6	☐	500.000	504.706	76651014.21	9.6528	A	1.0
7	☐	1000.000	996.706	153849971.4	19.0624	A	0.3
8	☐			61498.40	0.0080	P	1.6

$$y = 0.0191 * x + 9.2349E-005$$

$$R = 1.0000$$

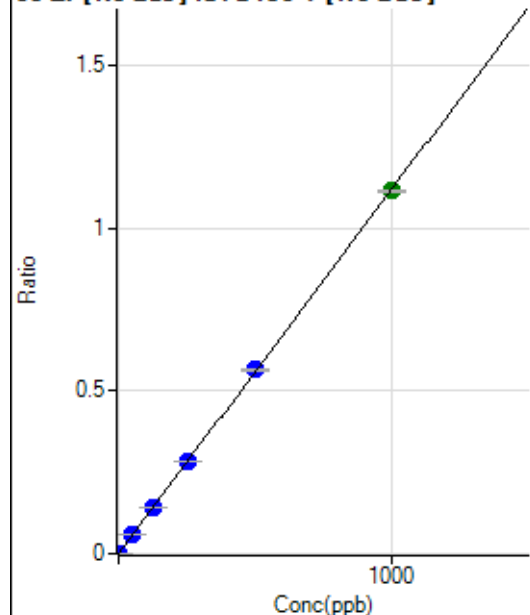
$$DL = 0.001939$$

$$BEC = 0.004829$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	577.80	0.0001	P	14.6
2	☐	1.000	1.038	10223.34	0.0012	P	4.0
3	☐	50.000	50.639	462305.35	0.0567	P	0.2
4	☐	125.000	127.261	1144789.36	0.1424	P	0.4
5	☐	250.000	253.213	2268654.78	0.2832	P	1.5
6	☐	500.000	504.938	4484095.89	0.5647	P	0.7
7	☐	1000.000	996.413	8992877.28	1.1142	A	0.8
8	☐			7015.78	0.0009	P	0.5

$$y = 0.0011 * x + 7.1166E-005$$

$$R = 1.0000$$

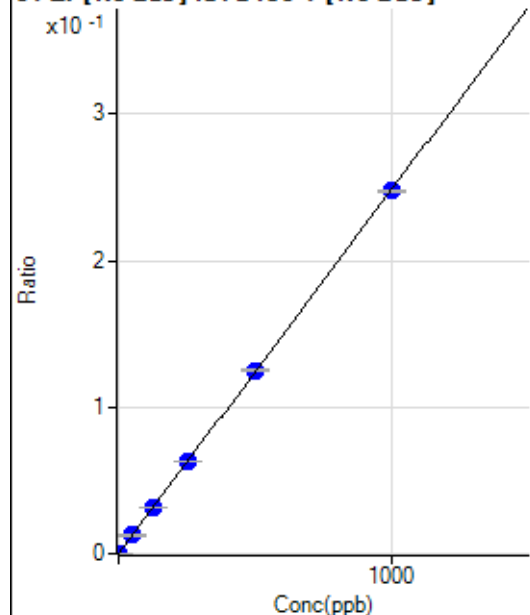
$$DL = 0.02795$$

$$BEC = 0.06365$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	113.89	0.0000	P	48.5
2	☐	1.000	1.024	2228.01	0.0003	P	11.6
3	☐	50.000	50.304	102047.95	0.0125	P	0.8
4	☐	125.000	127.817	255508.13	0.0318	P	0.7
5	☐	250.000	252.868	503480.40	0.0629	P	1.5
6	☐	500.000	504.366	995397.09	0.1253	P	0.4
7	☐	1000.000	996.733	1999155.08	0.2477	P	0.4
8	☐			1530.67	0.0002	P	9.1

$$y = 2.4850E-004 * x + 1.4016E-005$$

$$R = 1.0000$$

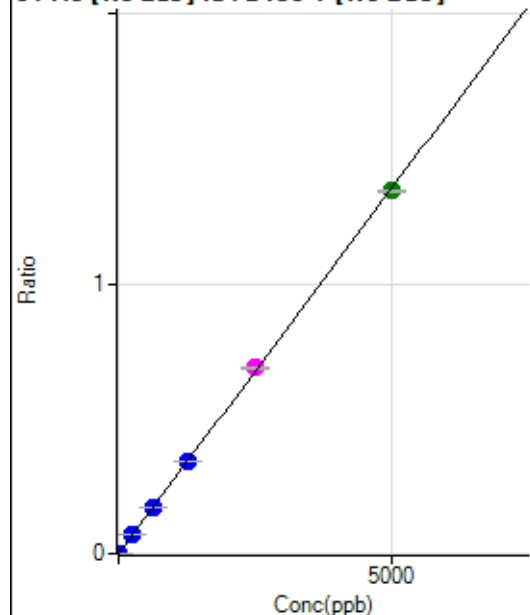
$$DL = 0.08205$$

$$BEC = 0.0564$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	255.56	0.0000	P	8.1
2	☐	5.000	5.299	12161.02	0.0015	P	2.3
3	☐	250.000	253.858	560428.42	0.0687	P	1.1
4	☐	625.000	633.059	1377826.73	0.1714	P	0.5
5	☐	1250.000	1270.946	2755597.87	0.3440	P	0.9
6	☐	2500.000	2549.205	5478520.09	0.6899	M	1.1
7	☐	5000.000	4968.960	10853047.12	1.3448	A	0.7
8	☐			4906.51	0.0006	P	2.0

$$y = 2.7062\text{E-}004 * x + 3.1469\text{E-}005$$

R = 0.9999

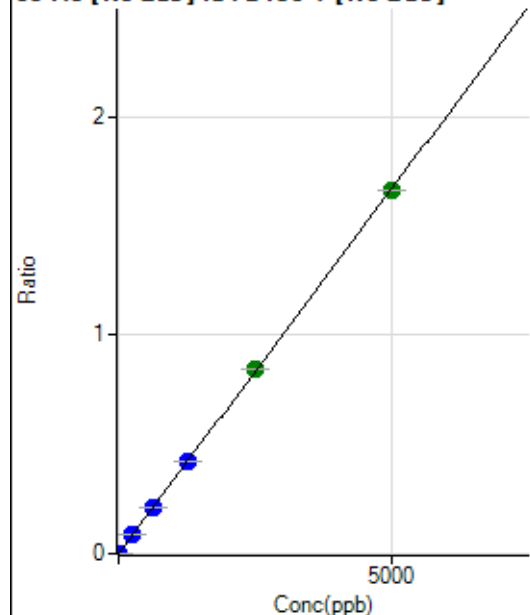
DL = 0.02839

BEC = 0.1163

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	33.34	0.0000	P	43.2
2	☐	5.000	5.238	14527.15	0.0018	P	0.6
3	☐	250.000	254.890	692938.21	0.0850	P	2.1
4	☐	625.000	630.696	1690980.44	0.2103	P	0.7
5	☐	1250.000	1270.211	3392752.07	0.4235	P	1.2
6	☐	2500.000	2537.274	6718021.11	0.8460	A	0.4
7	☐	5000.000	4975.354	13388861.93	1.6589	A	0.2
8	☐			3775.60	0.0005	P	0.4

$$y = 3.3343\text{E-}004 * x + 4.1032\text{E-}006$$

R = 0.9999

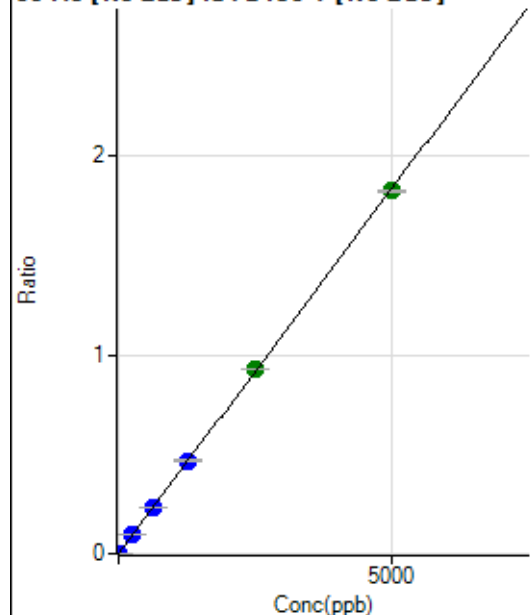
DL = 0.01595

BEC = 0.01231

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	86.11	0.0000	P	38.8
2	☐	5.000	5.147	15759.04	0.0019	P	3.4
3	☐	250.000	254.690	761935.82	0.0935	P	2.0
4	☐	625.000	635.188	1873947.37	0.2330	P	1.0
5	☐	1250.000	1278.634	3757837.67	0.4691	P	1.7
6	☐	2500.000	2533.013	7379700.60	0.9293	A	0.8
7	☐	5000.000	4974.827	14730535.05	1.8252	A	0.3
8	☐			4739.80	0.0006	P	6.1

$$y = 3.6688\text{E-}004 * x + 1.0598\text{E-}005$$

$$R = 0.9999$$

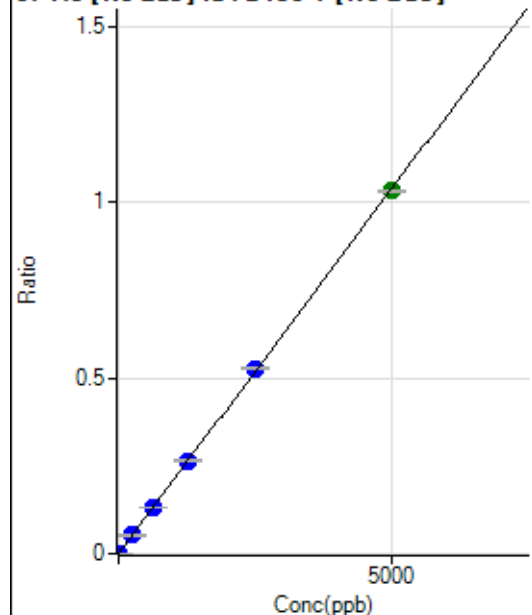
$$DL = 0.03367$$

$$BEC = 0.02889$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	91.67	0.0000	P	47.0
2	☐	5.000	5.066	8822.36	0.0011	P	1.9
3	☐	250.000	251.515	425816.88	0.0522	P	1.2
4	☐	625.000	634.829	1059738.84	0.1318	P	0.9
5	☐	1250.000	1266.376	2105863.26	0.2629	P	2.1
6	☐	2500.000	2539.072	4185655.09	0.5271	P	1.0
7	☐	5000.000	4975.066	8335181.26	1.0328	A	0.7
8	☐			2250.23	0.0003	P	5.5

$$y = 2.0759\text{E-}004 * x + 1.1280\text{E-}005$$

$$R = 0.9999$$

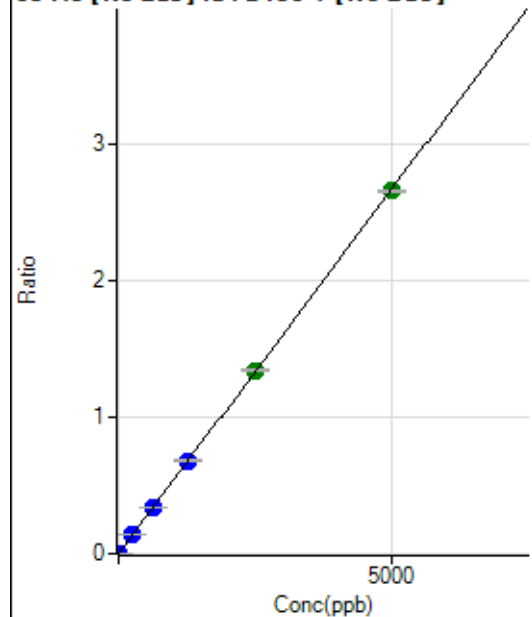
$$DL = 0.07658$$

$$BEC = 0.05434$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	41.67	0.0000	P	69.4
2	☐	5.000	5.183	22988.50	0.0028	P	2.9
3	☐	250.000	255.958	1113471.17	0.1366	P	1.8
4	☐	625.000	639.189	2742169.07	0.3410	P	0.3
5	☐	1250.000	1278.760	5465186.67	0.6822	P	1.5
6	☐	2500.000	2518.885	10671520.46	1.3439	A	1.3
7	☐	5000.000	4981.296	21449117.84	2.6576	A	0.5
8	☐			5503.98	0.0007	P	4.7

$$y = 5.3352\text{E-}004 * x + 5.1363\text{E-}006$$

$$R = 1.0000$$

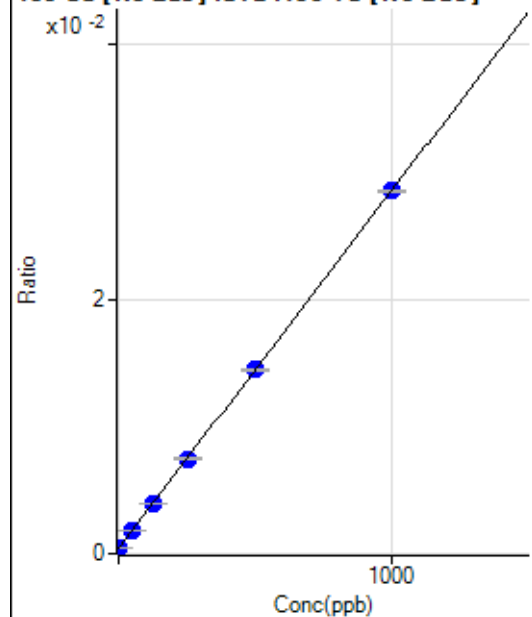
$$DL = 0.02003$$

$$BEC = 0.009627$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2733.67	0.0004	P	5.9
2	☐	1.000	2.053	3122.67	0.0005	P	2.8
3	☐	50.000	50.987	12152.72	0.0018	P	1.2
4	☐	125.000	125.928	26127.35	0.0040	P	2.3
5	☐	250.000	251.153	49185.84	0.0075	P	1.1
6	☐	500.000	499.218	93968.47	0.0144	P	0.8
7	☐	1000.000	999.937	183712.97	0.0285	P	0.3
8	☐			2553.07	0.0004	P	7.5

$$y = 2.8114\text{E-}005 * x + 4.1269\text{E-}004$$

$$R = 1.0000$$

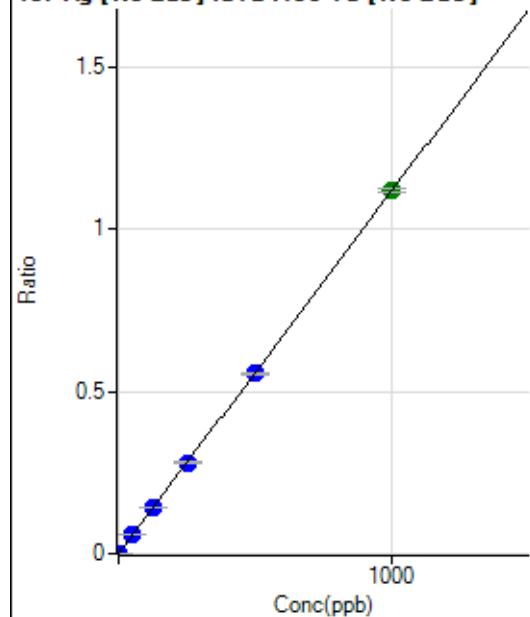
$$DL = 2.612$$

$$BEC = 14.68$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	80.56	0.0000	P	22.6
2	☐	1.000	1.048	7835.68	0.0012	P	0.9
3	☐	50.000	52.135	382771.03	0.0582	P	1.3
4	☐	125.000	126.336	931258.40	0.1409	P	1.3
5	☐	250.000	251.391	1845122.09	0.2804	P	0.5
6	☐	500.000	496.298	3599873.17	0.5535	P	0.5
7	☐	1000.000	1001.229	7191506.24	1.1166	A	1.0
8	☐			1914.07	0.0003	P	1.8

$$y = 0.0011 * x + 1.2177E-005$$

$$R = 1.0000$$

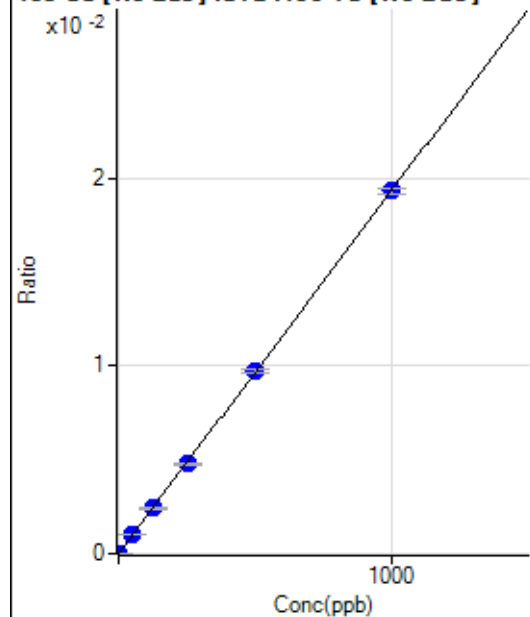
$$DL = 0.007389$$

$$BEC = 0.01092$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	29.17	0.0000	P	66.5
2	☐	1.000	0.931	148.61	0.0000	P	16.0
3	☐	50.000	52.593	6714.16	0.0010	P	3.9
4	☐	125.000	124.644	15938.26	0.0024	P	2.6
5	☐	250.000	246.948	31415.33	0.0048	P	1.3
6	☐	500.000	502.178	63101.79	0.0097	P	1.7
7	☐	1000.000	999.589	124344.80	0.0193	P	1.7
8	☐			148.61	0.0000	P	14.9

$$y = 1.9313E-005 * x + 4.4193E-006$$

$$R = 1.0000$$

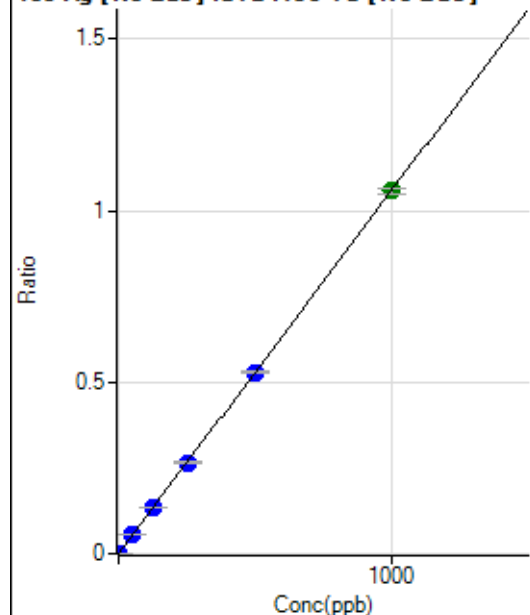
$$DL = 0.4564$$

$$BEC = 0.2288$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	25.00	0.0000	P	56.7
2	☐	1.000	1.025	7218.71	0.0011	P	6.4
3	☐	50.000	51.875	361130.08	0.0549	P	1.6
4	☐	125.000	127.022	887937.75	0.1343	P	1.0
5	☐	250.000	251.219	1748635.11	0.2657	P	1.5
6	☐	500.000	499.770	3437785.71	0.5286	P	1.0
7	☐	1000.000	999.464	6807374.11	1.0571	A	1.5
8	☐			1802.94	0.0003	P	3.4

$$y = 0.0011 * x + 3.7615E-006$$

$$R = 1.0000$$

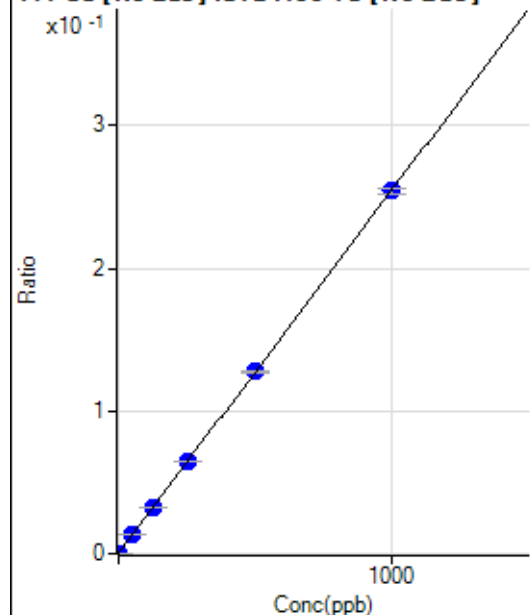
$$DL = 0.006051$$

$$BEC = 0.003557$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1902.87	0.0003	P	5.5
2	☐	1.000	1.191	3916.70	0.0006	P	4.4
3	☐	50.000	50.993	87229.83	0.0133	P	2.1
4	☐	125.000	125.110	212147.75	0.0321	P	1.4
5	☐	250.000	251.809	423255.75	0.0643	P	0.5
6	☐	500.000	500.447	829446.68	0.1275	P	0.7
7	☐	1000.000	999.261	1638054.08	0.2544	P	1.3
8	☐			2045.62	0.0003	P	8.9

$$y = 2.5426E-004 * x + 2.8727E-004$$

$$R = 1.0000$$

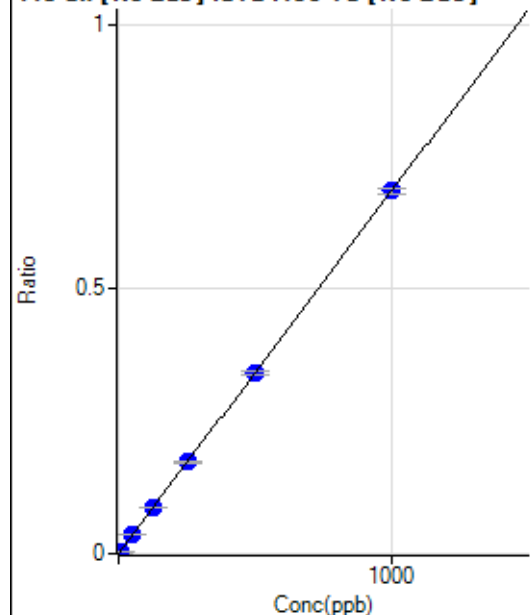
$$DL = 0.1861$$

$$BEC = 1.13$$

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	688.93	0.0001	P	2.6
2	☐	5.000	5.276	24686.08	0.0037	P	1.2
3	☐	50.000	51.468	232842.62	0.0354	P	0.5
4	☐	125.000	126.304	572725.57	0.0867	P	1.1
5	☐	250.000	252.058	1137400.78	0.1728	P	0.5
6	☐	500.000	497.606	2218296.17	0.3411	P	1.6
7	☐	1000.000	1000.445	4415669.46	0.6857	P	1.5
8	☐			2800.35	0.0004	P	13.0

$$y = 6.8525\text{E-}004 * x + 1.0402\text{E-}004$$

$$R = 1.0000$$

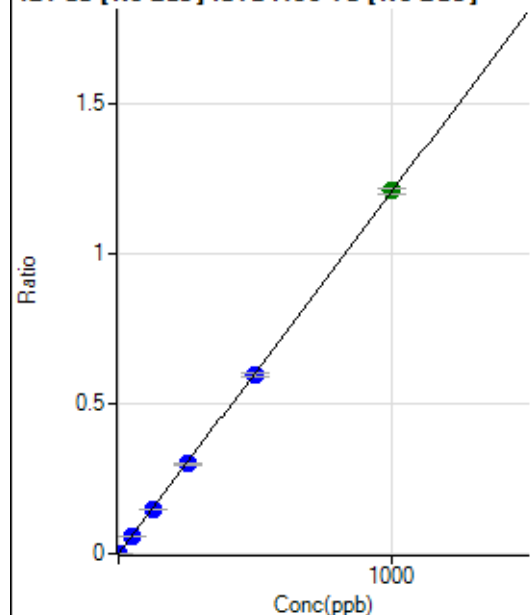
$$DL = 0.01207$$

$$BEC = 0.1518$$

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	125.01	0.0000	P	12.4
2	☐	2.000	2.051	16557.40	0.0025	P	2.8
3	☐	50.000	50.119	398414.58	0.0605	P	0.7
4	☐	125.000	123.576	986174.89	0.1492	P	1.3
5	☐	250.000	247.960	1970245.49	0.2994	P	1.1
6	☐	500.000	494.721	3884525.00	0.5973	P	2.0
7	☐	1000.000	1003.321	7800672.31	1.2113	A	1.6
8	☐			15620.19	0.0025	P	9.0

$$y = 0.0012 * x + 1.8885\text{E-}005$$

$$R = 1.0000$$

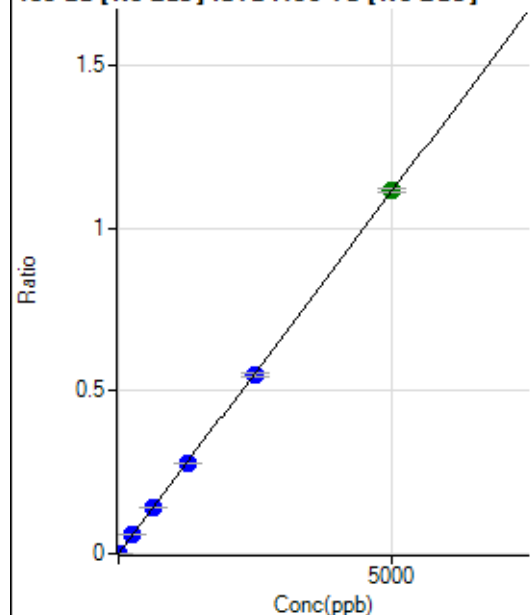
$$DL = 0.005825$$

$$BEC = 0.01564$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	169.45	0.0000	P	30.2
2	☐	10.000	10.767	16037.34	0.0024	P	2.6
3	☐	250.000	256.069	374448.54	0.0569	P	1.1
4	☐	625.000	629.565	924148.60	0.1398	P	0.7
5	☐	1250.000	1250.187	1827183.20	0.2776	P	0.7
6	☐	2500.000	2469.703	3566912.15	0.5484	P	1.3
7	☐	5000.000	5014.226	7170978.20	1.1135	A	1.0
8	☐			68625.17	0.0110	P	5.5

$$y = 2.2206\text{E-}004 * x + 2.5595\text{E-}005$$

$$R = 1.0000$$

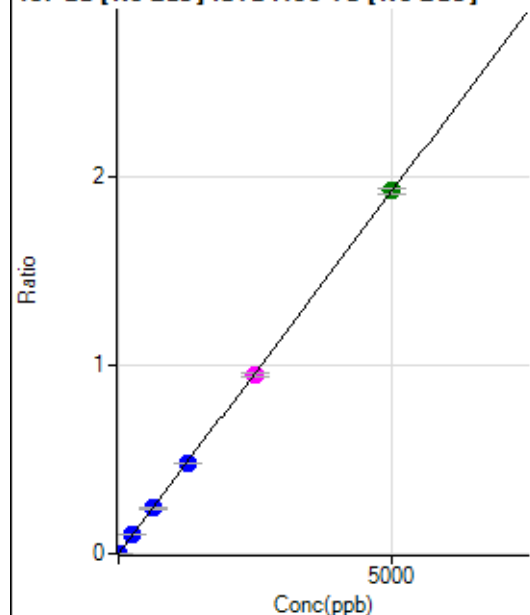
$$DL = 0.1043$$

$$BEC = 0.1153$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	202.78	0.0000	P	20.3
2	☐	10.000	10.640	27366.20	0.0041	P	1.3
3	☐	250.000	255.166	646211.34	0.0982	P	1.4
4	☐	625.000	626.103	1591856.59	0.2409	P	0.8
5	☐	1250.000	1245.468	3152902.18	0.4791	P	0.3
6	☐	2500.000	2480.136	6204487.77	0.9540	M	2.1
7	☐	5000.000	5010.668	12411405.49	1.9273	A	1.5
8	☐			117479.70	0.0187	P	5.0

$$y = 3.8463\text{E-}004 * x + 3.0585\text{E-}005$$

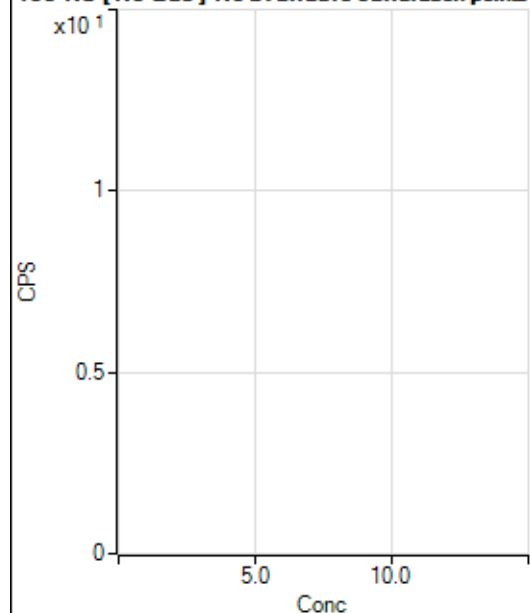
$$R = 1.0000$$

$$DL = 0.04846$$

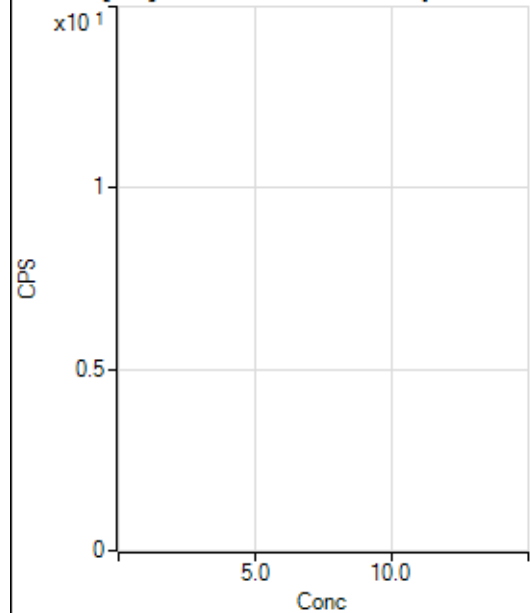
$$BEC = 0.07952$$

Weight: <None>

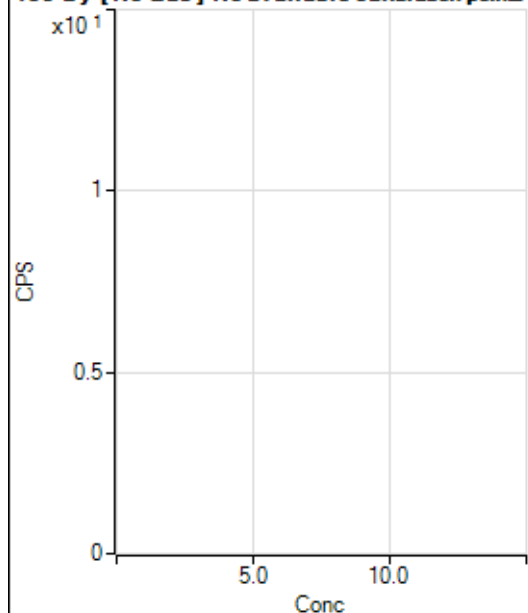
Min Conc: 0

150 Nd [No Gas] No available calibration points

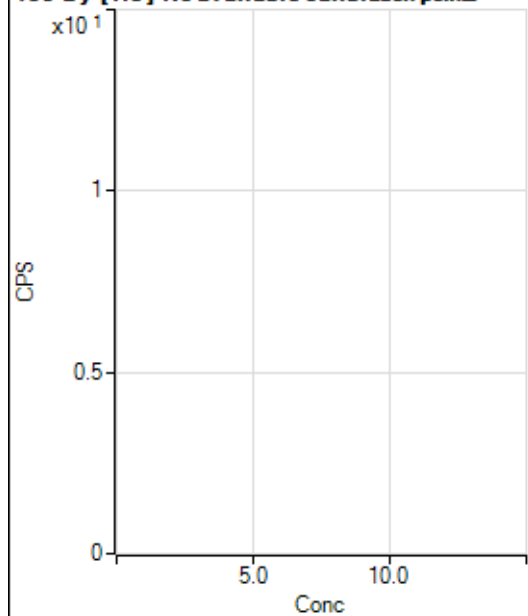
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.89		P	43.3
2	☐			15.56		P	65.5
3	☐			31.11		P	32.7
4	☐			60.00		P	38.5
5	☐			91.12		P	4.2
6	☐			184.45		P	18.5
7	☐			366.68		P	25.0
8	☐			46.67		P	28.6

150 Nd [He] No available calibration points

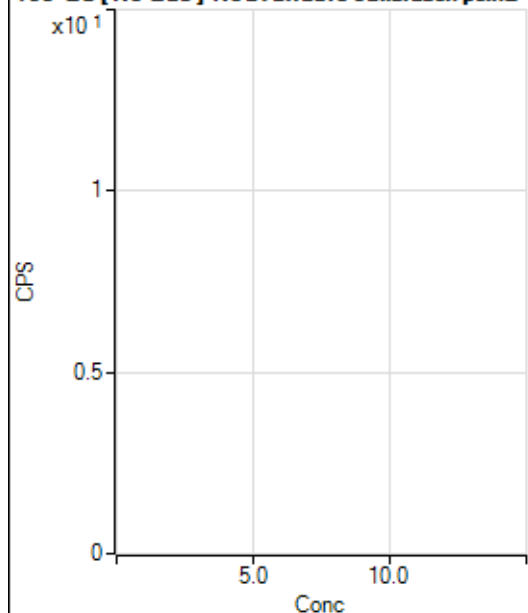
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.
2	☐			2.22		P	86.6
3	☐			3.33		P	100.
4	☐			8.89		P	57.3
5	☐			25.56		P	39.8
6	☐			48.89		P	3.9
7	☐			64.45		P	16.6
8	☐			11.11		P	17.3

156 Dy [No Gas] No available calibration points

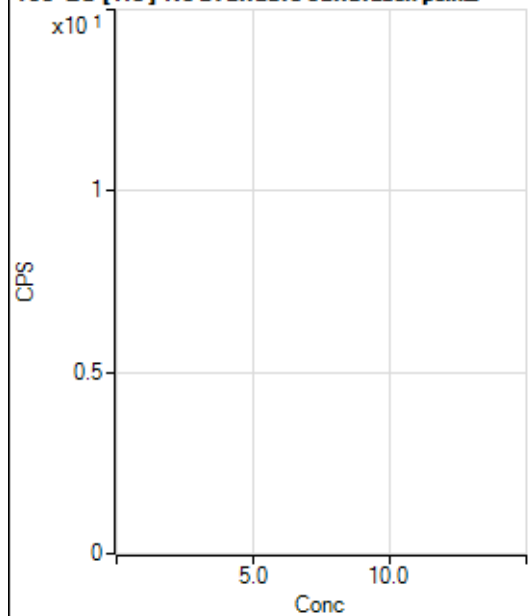
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			13.89		P	34.7
2	☐			8.33		P	0.0
3	☐			41.67		P	0.0
4	☐			58.33		P	14.3
5	☐			111.11		P	17.3
6	☐			180.56		P	17.5
7	☐			327.79		P	3.9
8	☐			897.28		P	7.5

156 Dy [He] No available calibration points

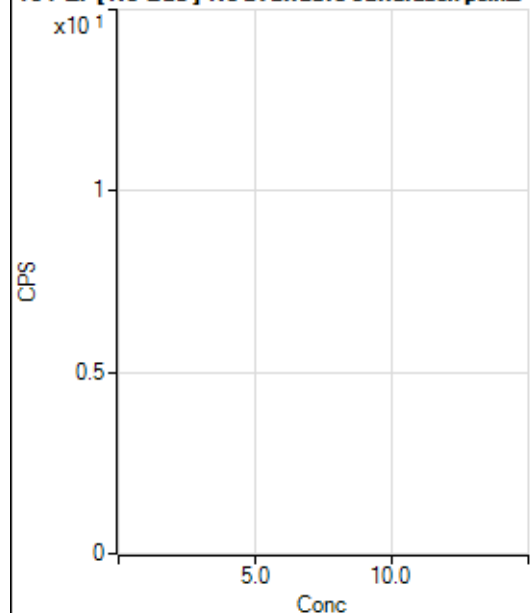
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	86.6
2	☐			4.44		P	43.4
3	☐			34.44		P	14.8
4	☐			52.22		P	19.5
5	☐			85.55		P	35.4
6	☐			181.12		P	7.4
7	☐			316.67		P	9.5
8	☐			682.25		P	4.5

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

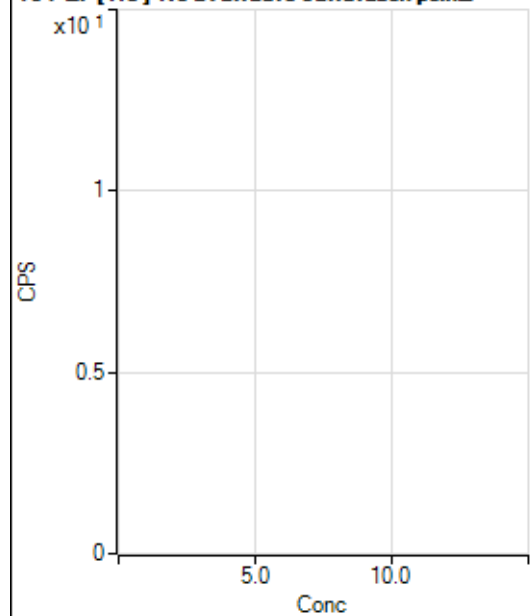
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			61.11		P	68.6
2	☐			38.89		P	65.5
3	☐			61.11		P	34.3
4	☐			108.34		P	50.4
5	☐			105.56		P	24.1
6	☐			233.34		P	9.4
7	☐			366.68		P	24.1
8	☐			969.50		P	7.8

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			114.45		P	29.8
2	☐			123.33		P	28.1
3	☐			124.44		P	23.1
4	☐			120.00		P	14.4
5	☐			168.89		P	12.7
6	☐			214.45		P	5.5
7	☐			353.34		P	12.8
8	☐			853.37		P	3.9

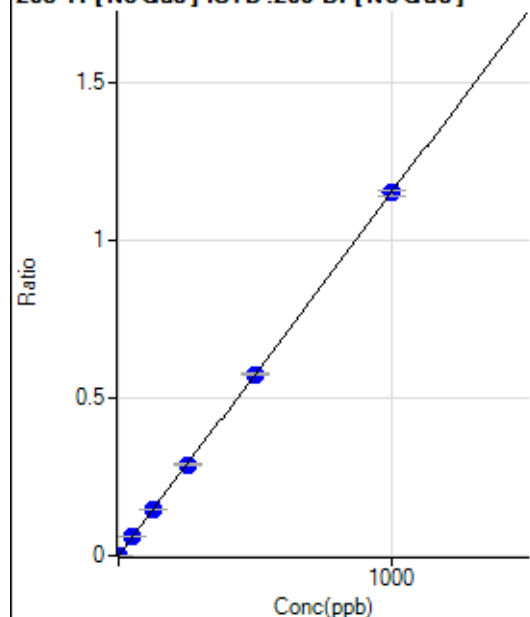
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			58.33		P	0.0
2	☐			55.56		P	62.4
3	☐			61.11		P	56.8
4	☐			38.89		P	44.6
5	☐			50.00		P	50.0
6	☐			91.67		P	24.1
7	☐			91.67		P	48.1
8	☐			158.34		P	34.5

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			36.67		P	32.8
2	☐			35.56		P	42.3
3	☐			37.78		P	27.0
4	☐			22.22		P	45.8
5	☐			47.78		P	10.7
6	☐			53.33		P	21.7
7	☐			73.33		P	7.9
8	☐			110.00		P	24.2

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	94.45	0.0000	P	19.3
2	☐	1.000	1.035	5554.09	0.0012	P	6.7
3	☐	50.000	50.803	267393.32	0.0585	P	1.4
4	☐	125.000	125.896	660804.50	0.1449	P	0.8
5	☐	250.000	251.534	1301839.28	0.2896	P	1.0
6	☐	500.000	499.909	2557960.99	0.5755	P	0.6
7	☐	1000.000	999.510	5042689.91	1.1506	P	1.8
8	☐			897.28	0.0002	P	34.8

$$y = 0.0012 * x + 2.0521E-005$$

$$R = 1.0000$$

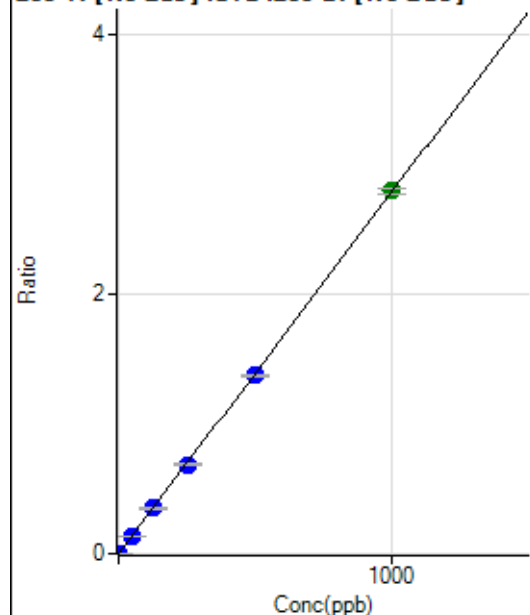
$$DL = 0.01035$$

$$BEC = 0.01783$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	200.01	0.0000	P	22.5
2	☐	1.000	0.999	12923.31	0.0028	P	2.3
3	☐	50.000	50.293	639218.61	0.1399	P	0.5
4	☐	125.000	125.167	1586556.22	0.3480	P	0.6
5	☐	250.000	247.321	3091355.08	0.6876	P	0.8
6	☐	500.000	492.545	6086417.32	1.3693	P	0.9
7	☐	1000.000	1004.362	12237473.54	2.7922	A	1.7
8	☐			2222.47	0.0005	P	12.7

$$y = 0.0028 * x + 4.3461E-005$$

$$R = 1.0000$$

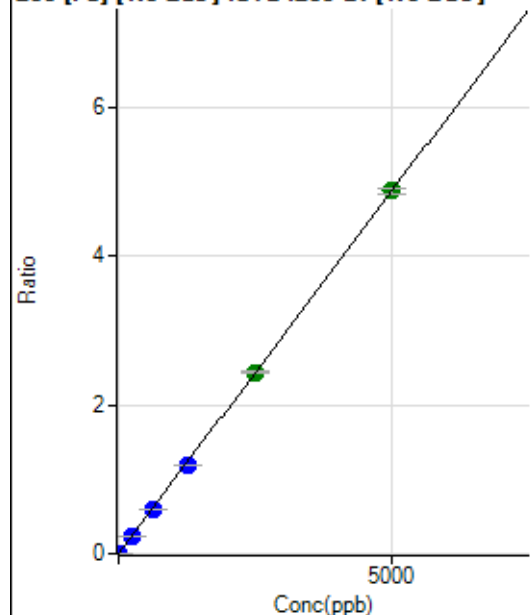
$$DL = 0.01054$$

$$BEC = 0.01563$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	687.07	0.0001	P	8.8
2	☐	1.000	1.030	5280.78	0.0012	P	4.1
3	☐	250.000	244.531	1088782.13	0.2382	P	1.6
4	☐	625.000	608.318	2700714.88	0.5924	P	1.4
5	☐	1250.000	1218.887	5335853.07	1.1868	P	0.9
6	☐	2500.000	2504.822	10840021.19	2.4388	A	0.5
7	☐	5000.000	5007.726	21367506.04	4.8756	A	1.3
8	☐			16942.49	0.0040	P	7.4

$$y = 9.7359\text{E-}004 * x + 1.4952\text{E-}004$$

$$R = 1.0000$$

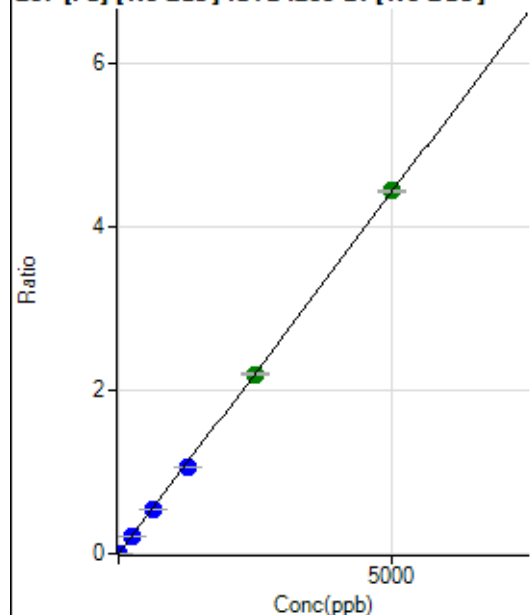
$$DL = 0.04042$$

$$BEC = 0.1536$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	562.98	0.0001	P	9.2
2	☐	1.000	1.063	4862.08	0.0011	P	2.1
3	☐	250.000	244.519	987421.94	0.2160	P	1.2
4	☐	625.000	603.309	2429323.84	0.5329	P	1.4
5	☐	1250.000	1204.256	4781341.14	1.0635	P	0.6
6	☐	2500.000	2484.659	9752577.19	2.1941	A	0.7
7	☐	5000.000	5022.092	19436075.66	4.4348	A	0.8
8	☐			15379.54	0.0036	P	7.3

$$y = 8.8303\text{E-}004 * x + 1.2249\text{E-}004$$

$$R = 0.9999$$

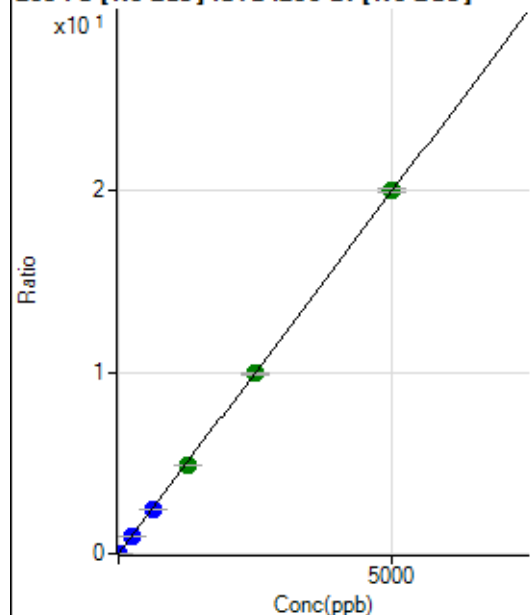
$$DL = 0.03826$$

$$BEC = 0.1387$$

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	2733.50	0.0006	P	5.4
2	☐	1.000	1.047	21825.94	0.0048	P	1.6
3	☐	250.000	244.857	4459792.75	0.9758	P	1.4
4	☐	625.000	607.887	11039973.80	2.4216	P	0.8
5	☐	1250.000	1228.975	22007761.72	4.8952	A	0.8
6	☐	2500.000	2487.378	44034474.14	9.9069	A	0.3
7	☐	5000.000	5013.963	87517358.21	19.9694	A	1.0
8	☐			68965.35	0.0162	P	6.9

$$y = 0.0040 * x + 5.9466E-004$$

$$R = 1.0000$$

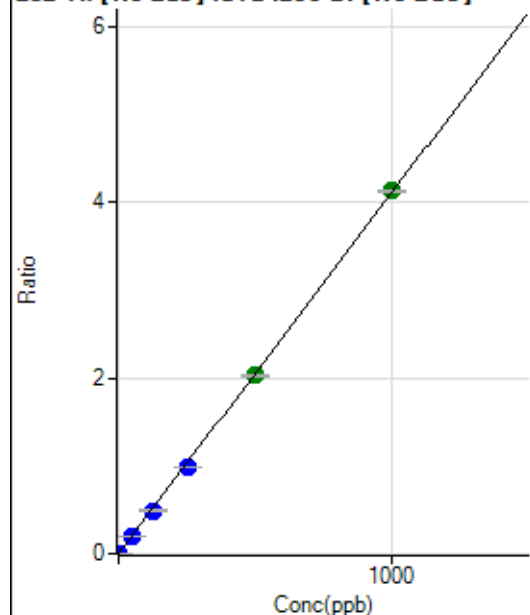
$$DL = 0.02407$$

$$BEC = 0.1493$$

Weight: <None>

Min Conc: 0

232 Th [No Gas] ISTD :209 Bi [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	166.67	0.0000	P	7.5
2	☐	1.000	-0.003	103.71	0.0000	P	13.0
3	☐	50.000	46.984	880881.06	0.1927	P	1.0
4	☐	125.000	119.564	2235690.28	0.4904	P	1.0
5	☐	250.000	239.858	4422484.01	0.9838	P	1.8
6	☐	500.000	495.155	9026522.95	2.0308	A	0.9
7	☐	1000.000	1005.789	18078385.36	4.1250	A	0.6
8	☐			2470.65	0.0006	P	3.4

$$y = 0.0041 * x + 3.6272E-005$$

$$R = 0.9999$$

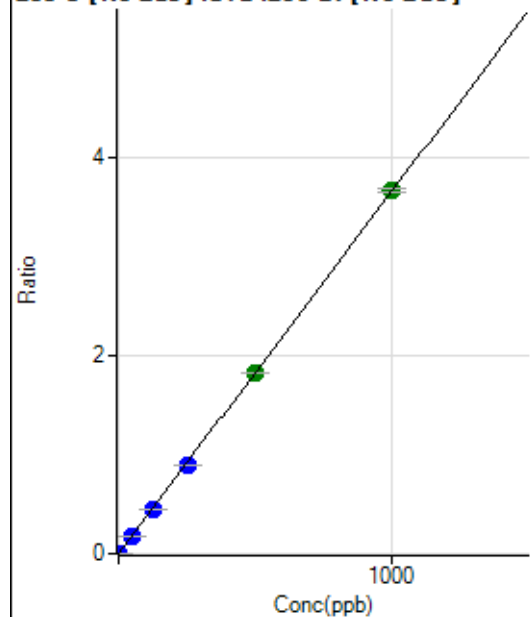
$$DL = 0.00198$$

$$BEC = 0.008844$$

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	19.44	0.0000	P	99.5
2	☐	1.000	0.952	15943.43	0.0035	P	2.3
3	☐	50.000	48.326	806918.13	0.1765	P	0.1
4	☐	125.000	121.946	2031005.21	0.4455	P	0.5
5	☐	250.000	244.267	4011682.08	0.8924	P	1.6
6	☐	500.000	498.330	8091804.00	1.8205	A	0.6
7	☐	1000.000	1002.734	16054513.03	3.6632	A	1.1
8	☐			2089.12	0.0005	P	3.5

$$y = 0.0037 * x + 4.2437E-006$$

$$R = 1.0000$$

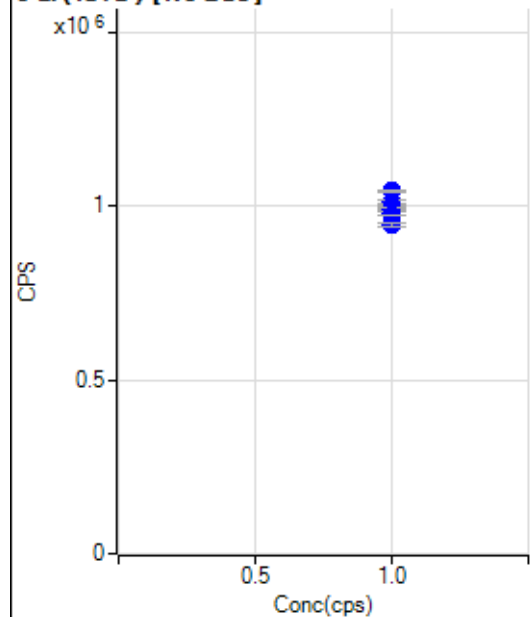
$$DL = 0.003466$$

$$BEC = 0.001162$$

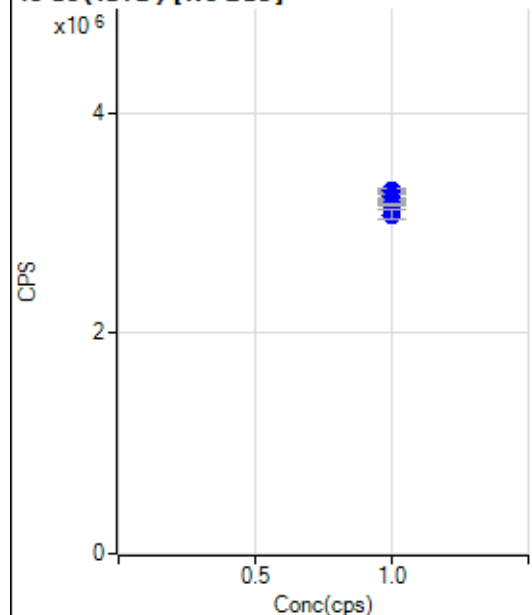
Weight: <None>

Min Conc: 0

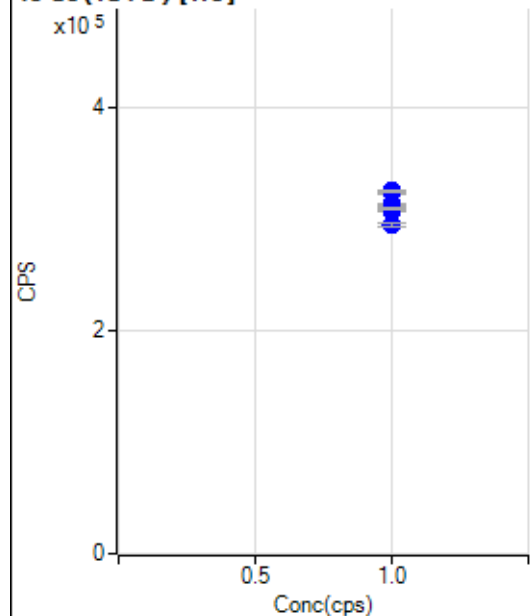
6 Li (ISTD) [No Gas]



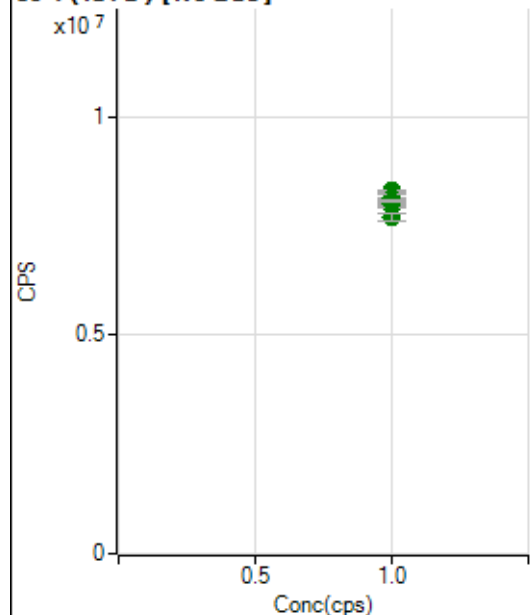
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		978820.17		P	1.4
2	☐	1.000		991111.88		P	0.3
3	☐	1.000		1011057.51		P	1.2
4	☐	1.000		998280.14		P	0.3
5	☐	1.000		988837.05		P	0.8
6	☐	1.000		973865.90		P	0.2
7	☐	1.000		944838.42		P	1.0
8	☐	1.000		1042580.17		P	0.7

45 Sc (ISTD) [No Gas]

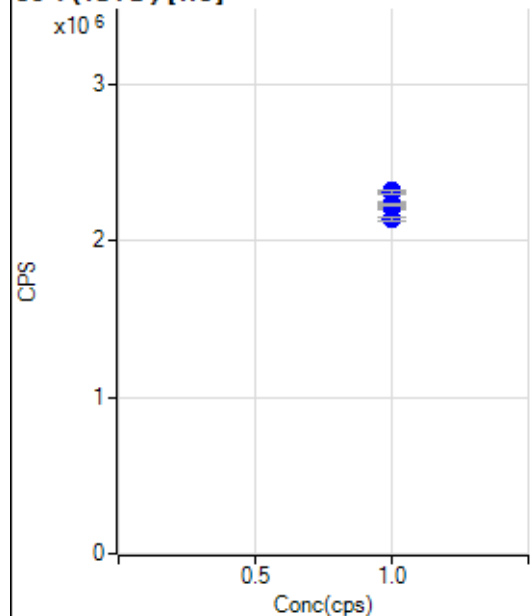
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3291869.88		P	0.6
2	☐	1.000		3295414.33		P	1.0
3	☐	1.000		3247661.69		P	0.7
4	☐	1.000		3219297.94		P	0.5
5	☐	1.000		3205875.64		P	1.1
6	☐	1.000		3214868.04		P	0.3
7	☐	1.000		3168827.21		P	0.4
8	☐	1.000		3080629.99		P	3.1

45 Sc (ISTD) [He]

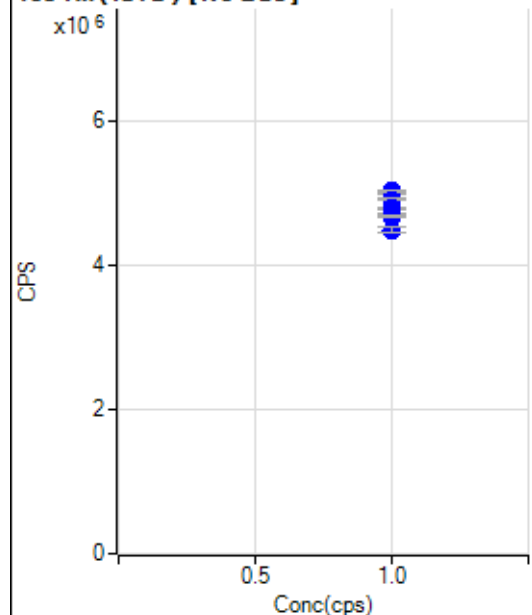
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		324050.85		P	0.3
2	☐	1.000		325646.61		P	0.4
3	☐	1.000		313326.10		P	0.9
4	☐	1.000		309591.70		P	0.1
5	☐	1.000		308353.55		P	0.3
6	☐	1.000		307266.83		P	0.3
7	☐	1.000		310124.37		P	0.8
8	☐	1.000		295060.02		P	1.1

89 Y (ISTD) [No Gas]

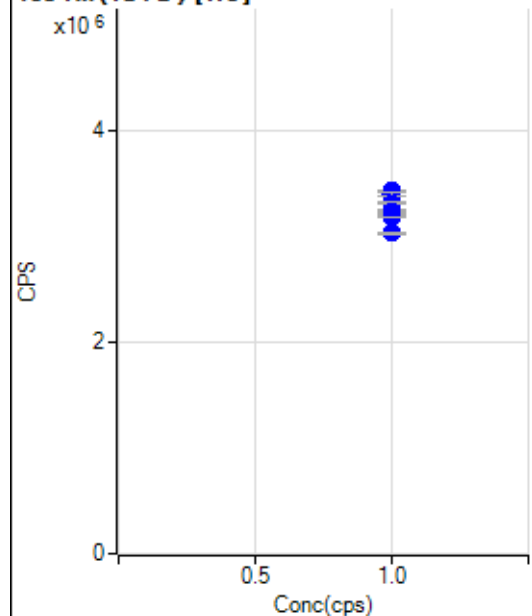
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8120748.84		A	0.2
2	☐	1.000		8298915.36		A	0.6
3	☐	1.000		8154385.23		A	1.2
4	☐	1.000		8040936.34		A	0.5
5	☐	1.000		8011243.49		A	0.9
6	☐	1.000		7940984.81		A	0.3
7	☐	1.000		8070797.80		A	0.4
8	☐	1.000		7701077.18		A	1.9

89 Y (ISTD) [He]

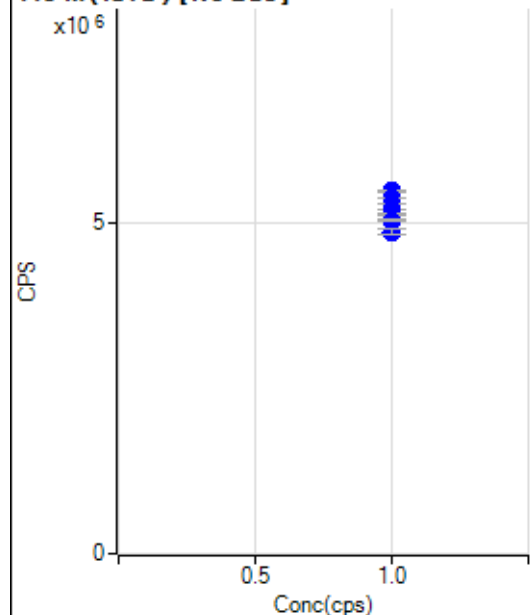
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2316635.57		P	0.4
2	☐	1.000		2308459.90		P	0.7
3	☐	1.000		2230830.45		P	0.9
4	☐	1.000		2209408.47		P	1.4
5	☐	1.000		2207679.53		P	0.2
6	☐	1.000		2210822.97		P	0.4
7	☐	1.000		2229327.83		P	0.4
8	☐	1.000		2138188.37		P	0.8

103 Rh (ISTD) [No Gas]

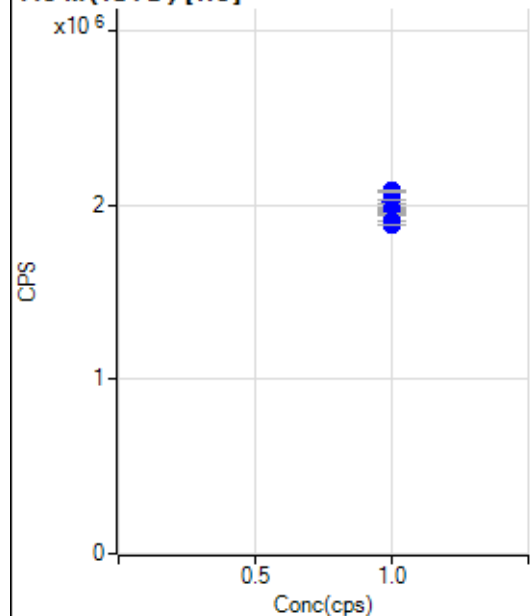
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4997755.31		P	0.3
2	☐	1.000		5022286.52		P	0.3
3	☐	1.000		4904893.85		P	0.5
4	☐	1.000		4788457.54		P	0.6
5	☐	1.000		4768090.35		P	0.4
6	☐	1.000		4707161.39		P	0.5
7	☐	1.000		4669119.58		P	0.5
8	☐	1.000		4475282.61		P	1.9

103 Rh (ISTD) [He]

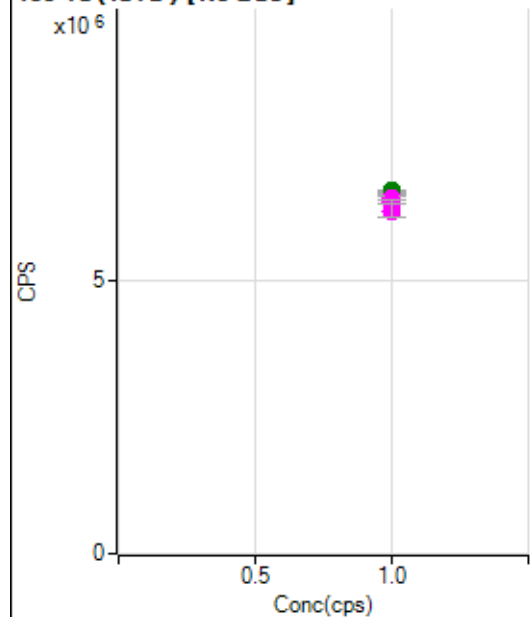
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3431464.71		P	0.9
2	☐	1.000		3406350.92		P	0.9
3	☐	1.000		3316242.94		P	0.7
4	☐	1.000		3245880.96		P	1.1
5	☐	1.000		3237363.77		P	0.5
6	☐	1.000		3194183.21		P	0.7
7	☐	1.000		3178107.11		P	0.1
8	☐	1.000		3031088.88		P	0.2

115 In (ISTD) [No Gas]

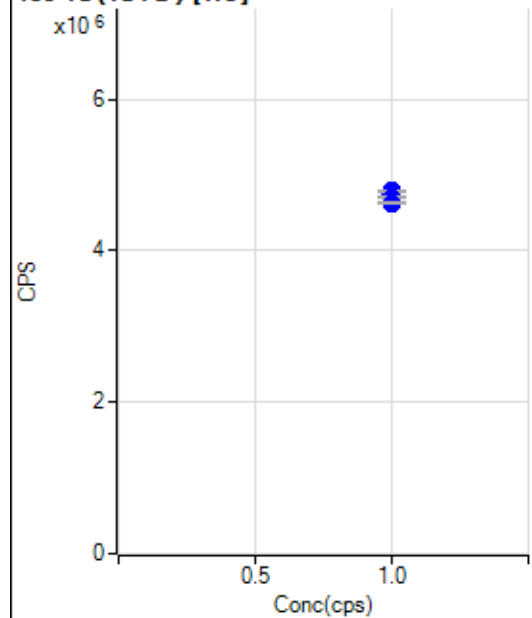
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5495139.59		P	0.2
2	☐	1.000		5489845.13		P	0.4
3	☐	1.000		5393745.19		P	0.1
4	☐	1.000		5301274.75		P	0.4
5	☐	1.000		5212689.04		P	0.3
6	☐	1.000		5149339.90		P	0.5
7	☐	1.000		5052693.40		P	0.3
8	☐	1.000		4878287.29		P	2.0

115 In (ISTD) [He]

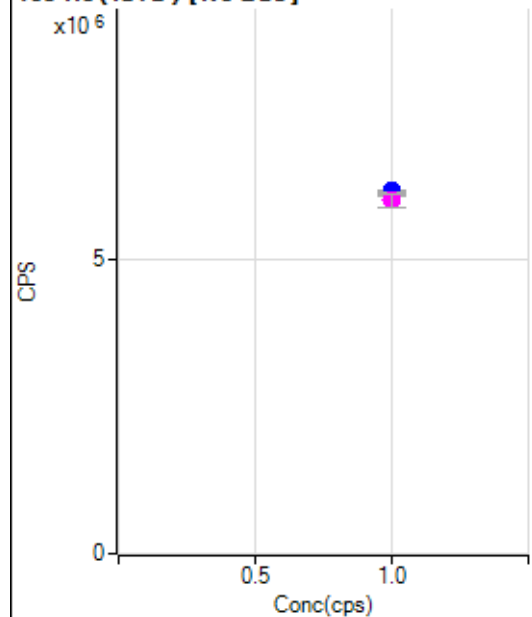
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2080225.06		P	0.3
2	☐	1.000		2077580.81		P	0.6
3	☐	1.000		2018783.38		P	0.8
4	☐	1.000		1979147.19		P	0.8
5	☐	1.000		1958050.33		P	0.1
6	☐	1.000		1945208.36		P	0.3
7	☐	1.000		1909918.12		P	0.3
8	☐	1.000		1881576.61		P	0.1

159 Tb (ISTD) [No Gas]

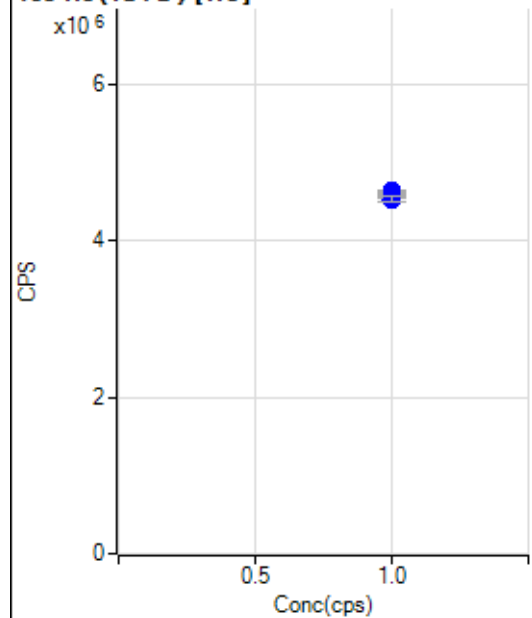
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6624416.85		A	1.1
2	☐	1.000		6637720.74		A	0.9
3	☐	1.000		6582853.65		M	1.6
4	☐	1.000		6609351.08		A	0.3
5	☐	1.000		6581226.85		A	0.3
6	☐	1.000		6504144.97		M	0.9
7	☐	1.000		6440691.29		M	1.4
8	☐	1.000		6274348.31		M	3.6

159 Tb (ISTD) [He]

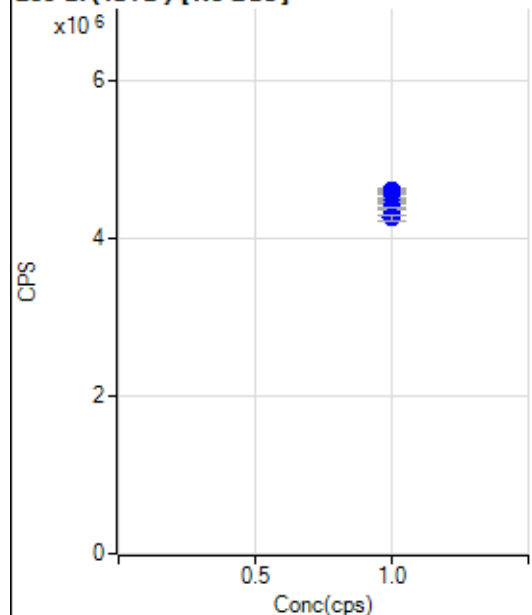
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4778310.52		P	0.4
2	☐	1.000		4788867.36		P	0.5
3	☐	1.000		4748859.41		P	0.7
4	☐	1.000		4743576.66		P	0.8
5	☐	1.000		4780568.57		P	0.3
6	☐	1.000		4694567.64		P	0.2
7	☐	1.000		4705315.28		P	0.8
8	☐	1.000		4629710.94		P	0.2

165 Ho (ISTD) [No Gas]

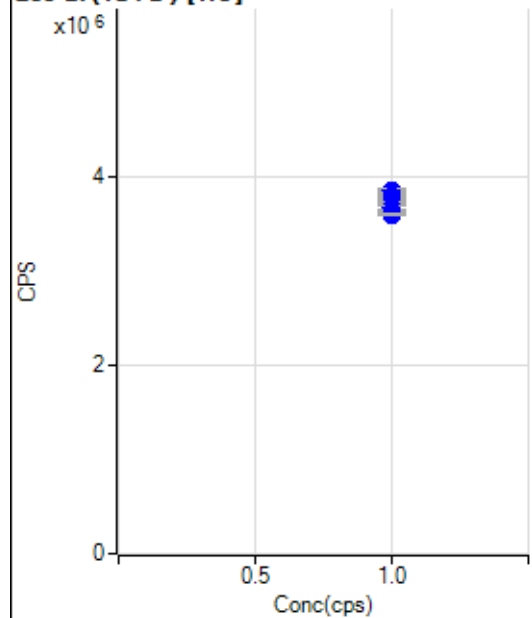
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6115811.23		P	0.8
2	☐	1.000		6149974.63		P	0.1
3	☐	1.000		6119668.87		P	1.0
4	☐	1.000		6134226.72		P	0.8
5	☐	1.000		6123673.87		P	0.7
6	☐	1.000		6094950.95		P	0.7
7	☐	1.000		6097151.16		P	1.2
8	☐	1.000		5983466.02		M	3.7

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4640091.04		P	0.8
2	☐	1.000		4636160.28		P	1.0
3	☐	1.000		4611497.29		P	0.5
4	☐	1.000		4593507.50		P	1.4
5	☐	1.000		4592587.71		P	0.5
6	☐	1.000		4552418.09		P	0.6
7	☐	1.000		4561482.12		P	0.7
8	☐	1.000		4533251.91		P	1.5

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4596954.69		P	0.9
2	☐	1.000		4580675.48		P	0.9
3	☐	1.000		4570514.24		P	0.3
4	☐	1.000		4558994.27		P	0.3
5	☐	1.000		4495951.29		P	1.0
6	☐	1.000		4444819.45		P	0.1
7	☐	1.000		4382541.43		P	0.6
8	☐	1.000		4256034.52		P	1.7

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3858194.53		P	0.3
2	☐	1.000		3857720.36		P	0.9
3	☐	1.000		3811143.76		P	0.3
4	☐	1.000		3779179.42		P	0.6
5	☐	1.000		3734984.49		P	0.7
6	☐	1.000		3680539.18		P	0.7
7	☐	1.000		3637963.28		P	0.4
8	☐	1.000		3605509.67		P	0.4

US EPA Tune Check Sample Report

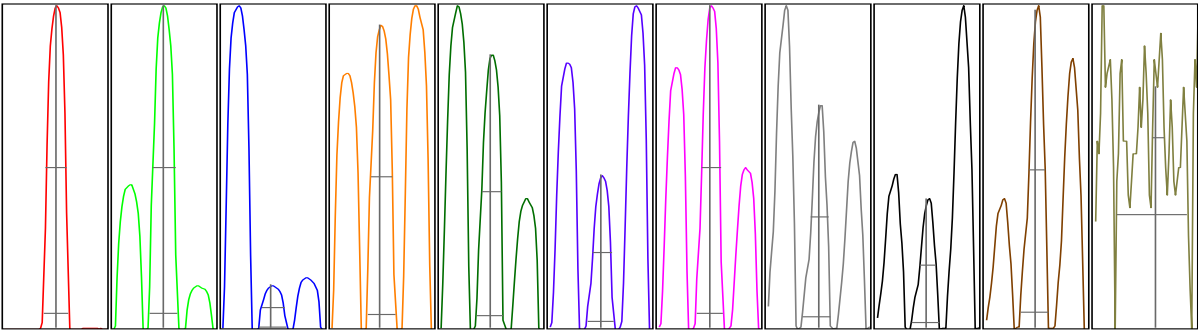
Batch Folder C:\Agilent\ICPMH\1\DATA\P7081521MS.b
Report Comment
Instrument Name G8403A JP14410463

[No Gas]

Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)	RSD% (Flag)
9	6284	2.39	5.00	
24	62560	2.00	5.00	
25	8584	2.09	5.00	
26	9922	2.52	5.00	
59	13627	2.38	5.00	
113	8542	2.31	5.00	
115	22552	2.84	5.00	
206	9407	2.53	5.00	
207	7862	2.16	5.00	
208	19460	2.12	5.00	
220	1	22.56		

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
9	6341	6370	6453	6091	6166
24	63010	63332	63957	61055	61446
25	8661	8661	8798	8360	8442
26	9971	10116	10191	9606	9727
59	13753	13904	13914	13219	13346
113	8643	8621	8769	8289	8389
115	22881	22883	23250	21805	21942
206	9444	9394	9764	9107	9323
207	7897	7878	8082	7607	7846
208	19708	19456	19886	18799	19450
220	1	1	1	1	1

Integration Time [sec] = 0.1



Mass	Peak Height	Axis (Actual)	Axis (Required)	Axis (Flag)	Width-X% (Actual)	Width-X% (Required)	Width- X% (Flag)
9	11033	9.05	8.9 - 9.1		0.738	0.900	
24	102896	24.00	23.9 - 24.1		0.821	0.900	
25	13753	24.95	24.9 - 25.1		0.790	0.900	
26	16342	25.95	25.9 - 26.1		0.824	0.900	
59	23677	59.00	58.9 - 59.1		0.779	0.900	
113	15963	113.05	112.9 - 113.1		0.776	0.900	
115	41573	115.05	114.9 - 115.1		0.776	0.900	
206	18896	206.05	205.9 - 206.1		0.812	0.900	
207	15804	207.00	206.9 - 207.1		0.805	0.900	
208	38923	208.00	207.9 - 208.1		0.816	0.900	
220	1	220.35	-		2.051		

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

Tune Parameters

Plasma Paramters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
RF Power	1600	W	Carrier Gas	0.72	L/min	S/C Temp		2 °C
RF Matching	1.80	V	Option Gas	0.0	%	Gas Switch		Dilution Gas
Smpl Depth	9.0	mm	Nebulizer Pump	0.10	rpm	Makeup/Dilution Gas		0.42 L/min

Lenses Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Extract 1	0.0	V	Omega Lens	10.3	V	Deflect	14.6	V
Extract 2	-195.0	V	Cell Entrance	-30	V	Plate Bias	-35	V
Omega Bias	-95	V	Cell Exit	-50	V			

Cell Parameters

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

[He]

Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)
59	5848	0.57	
89	26530	0.23	
205	11486	0.60	

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
59	5890	5877	5839	5817	5819
89	26489	26566	26478	26497	26622
205	11518	11456	11399	11477	11583

Integration Time [sec] = 0.1

Tune Parameters

Plasma Paramters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
RF Power	1600	W	Carrier Gas	0.72	L/min	S/C Temp		2 °C
RF Matching	1.80	V	Option Gas	0.0	%	Gas Switch		Dilution Gas
Smpl Depth	9.0	mm	Nebulizer Pump	0.10	rpm	Makeup/Dilution Gas		0.42 L/min

Lenses Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Extract 1	0.0	V	Omega Lens	10.2	V	Deflect	3.4	V
Extract 2	-200.0	V	Cell Entrance	-40	V	Plate Bias	-60	V
Omega Bias	-105	V	Cell Exit	-60	V			

Cell Parameters

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