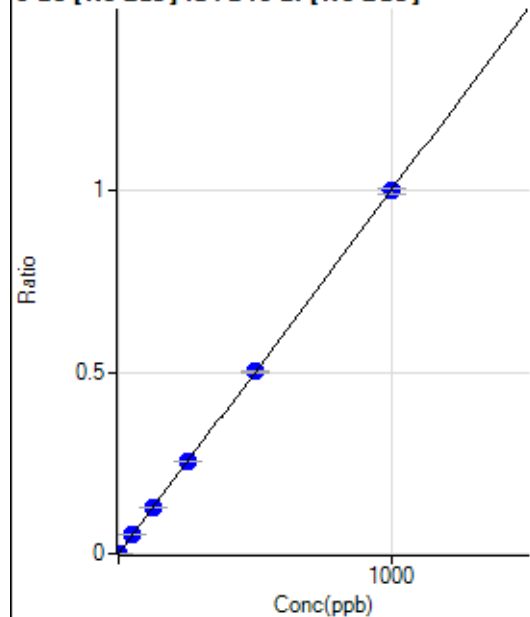


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8050820 MS.b\
Analysis File: P8050820 MS.batch.bin
DA Date-Time: 2020-05-08 12:13:56
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	005CALB.d	S00	2020-05-08 11:33:24
2	006CALS.d	S02	2020-05-08 11:36:35
3	008CALS.d	S03	2020-05-08 11:42:56
4	009CALS.d	S04	2020-05-08 11:46:04
5	010CALS.d	S05	2020-05-08 11:49:11
6	011CALS.d	S06	2020-05-08 11:52:09
7	012CALS.d	S07	2020-05-08 11:55:10
8	013CALS.d	S08	2020-05-08 11:58:08

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	95.98	0.0002	P	23.5
2	☐	1.000	0.942	661.22	0.0011	P	7.0
3	☐	50.000	50.476	31053.01	0.0507	P	0.3
4	☐	125.000	126.473	81812.36	0.1268	P	0.2
5	☐	250.000	254.489	162722.63	0.2549	P	0.4
6	☐	500.000	501.315	322187.33	0.5020	P	1.1
7	☐	1000.000	998.012	636817.12	0.9992	P	1.5
8	☐			1216.48	0.0020	P	3.1

$$y = 0.0010 * x + 1.5810E-004$$

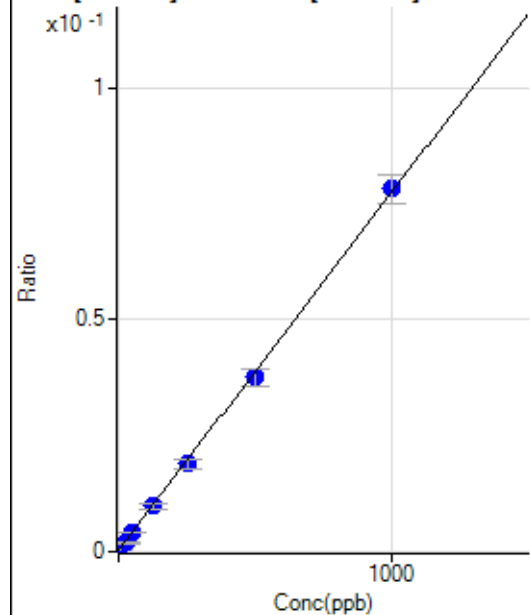
$$R = 1.0000$$

$$DL = 0.1112$$

$$BEC = 0.1579$$

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	191.30	0.0003	P	18.2
2	☐	25.000	20.225	1124.49	0.0019	P	14.0
3	☐	50.000	49.569	2532.39	0.0041	P	8.9
4	☐	125.000	122.758	6306.79	0.0098	P	10.4
5	☐	250.000	242.760	12148.00	0.0190	P	11.0
6	☐	500.000	483.983	24146.42	0.0376	P	10.0
7	☐	1000.000	1010.240	49843.01	0.0781	P	8.3
8	☐			9365.16	0.0152	P	9.8

$$y = 7.7028E-005 * x + 3.1682E-004$$

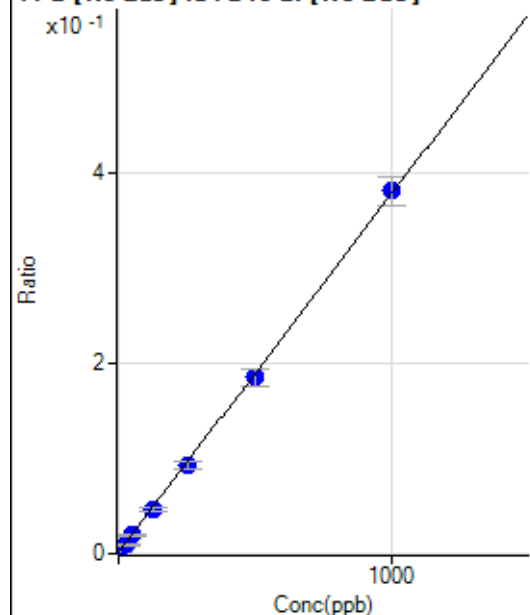
$$R = 0.9998$$

$$DL = 2.25$$

$$BEC = 4.113$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	831.86	0.0014	P	2.5
2	☐	25.000	20.783	5510.64	0.0092	P	15.0
3	☐	50.000	48.681	12051.91	0.0197	P	10.3
4	☐	125.000	122.040	30506.83	0.0473	P	8.2
5	☐	250.000	243.323	59324.91	0.0929	P	9.2
6	☐	500.000	487.396	118603.59	0.1847	P	9.6
7	☐	1000.000	1008.513	242807.06	0.3806	P	7.7
8	☐			44880.02	0.0728	P	10.1

$$y = 3.7606\text{E-}004 * x + 0.0014$$

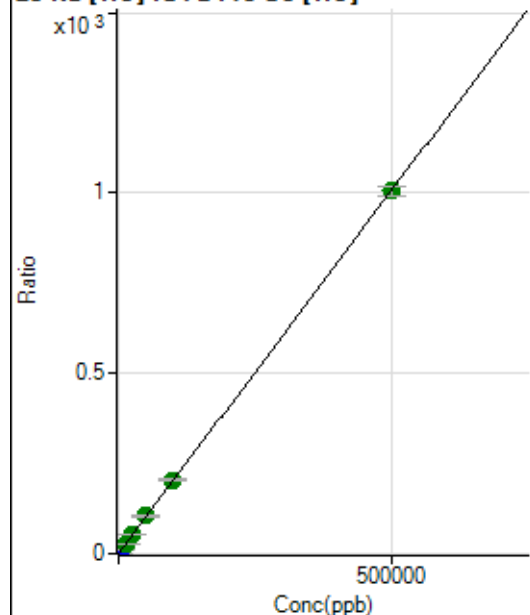
$$R = 0.9999$$

$$DL = 0.2762$$

$$BEC = 3.657$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	20890.34	0.4482	P	1.5
2	☐	500.000	503.319	68351.92	1.4614	P	1.1
3	☐	5000.000	5334.412	528204.89	11.1870	P	3.5
4	☐	12500.000	13065.190	1301342.63	26.7500	A	0.9
5	☐	25000.000	25757.446	2524308.89	52.3010	A	0.9
6	☐	50000.000	51463.213	4891548.68	104.0497	A	2.7
7	☐	100000.00	101290.00	9574454.56	204.3569	A	3.4
8	☐	500000.00	499540.32	44977701.01	1,006.081	A	2.4

$$y = 0.0020 * x + 0.4482$$

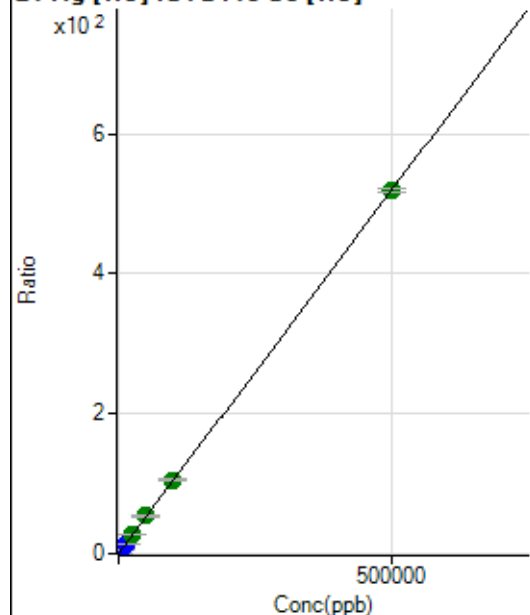
$$R = 1.0000$$

$$DL = 9.951$$

$$BEC = 222.6$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	261.12	0.0056	P	16.2
2	☐	500.000	497.043	24395.95	0.5216	P	1.7
3	☐	5000.000	5385.809	264266.33	5.5970	P	3.5
4	☐	12500.000	13131.305	663455.53	13.6382	P	1.4
5	☐	25000.000	25922.248	1299221.08	26.9175	A	1.2
6	☐	50000.000	51980.577	2537757.65	53.9706	A	1.6
7	☐	100000.00	101639.73	4944724.07	105.5256	A	1.7
8	☐	500000.00	499408.24	23182547.91	518.4798	A	1.2

$$y = 0.0010 * x + 0.0056$$

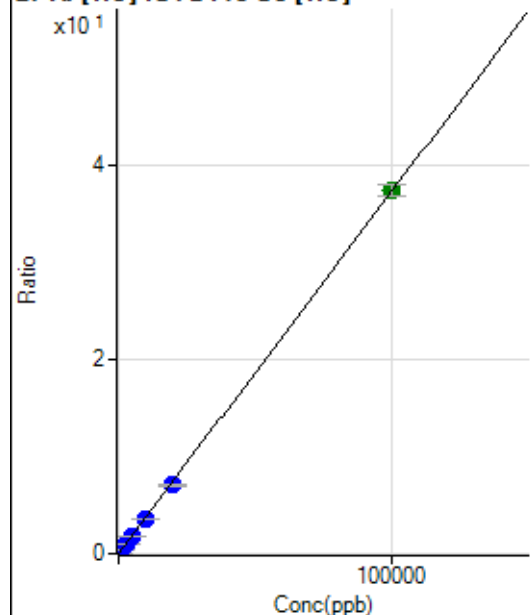
$$R = 1.0000$$

$$DL = 2.621$$

$$BEC = 5.397$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	317.95	0.0068	P	10.8
2	☐	20.000	15.064	581.90	0.0124	P	1.8
3	☐	1000.000	980.114	17595.80	0.3725	P	2.8
4	☐	2500.000	2437.209	44568.19	0.9162	P	2.2
5	☐	5000.000	4765.726	86151.05	1.7850	P	1.0
6	☐	10000.000	9641.359	169463.51	3.6043	P	2.0
7	☐	20000.000	18934.222	331349.54	7.0717	P	2.2
8	☐	100000.00	100262.50	1672736.04	37.4176	A	3.2

$$y = 3.7313E-004 * x + 0.0068$$

$$R = 0.9999$$

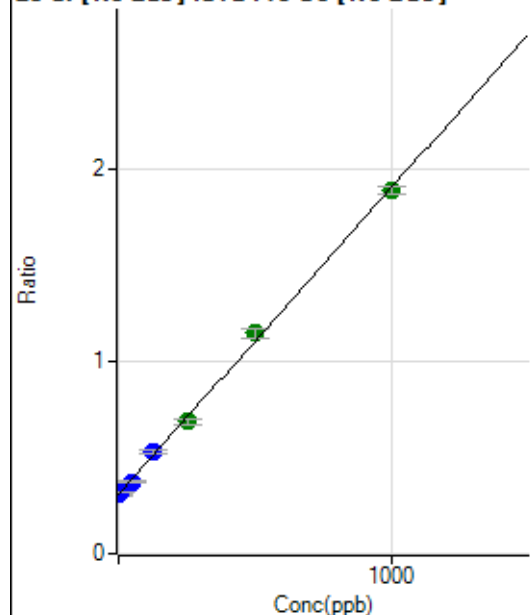
$$DL = 5.934$$

$$BEC = 18.28$$

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	457225.59	0.3092	P	2.6
2	☐	10.000	9.688	476501.31	0.3247	P	0.3
3	☐	50.000	41.054	562759.75	0.3748	P	1.3
4	☐	125.000	139.418	841287.65	0.5319	P	3.9
5	☐	250.000	237.190	1077969.92	0.6881	A	4.5
6	☐	500.000	526.454	1779965.60	1.1501	A	4.2
7	☐	1000.000	988.624	2903318.64	1.8883	A	2.0
8	☐			952455.23	0.6320	P	7.0

$$y = 0.0016 * x + 0.3092$$

$$R = 0.9992$$

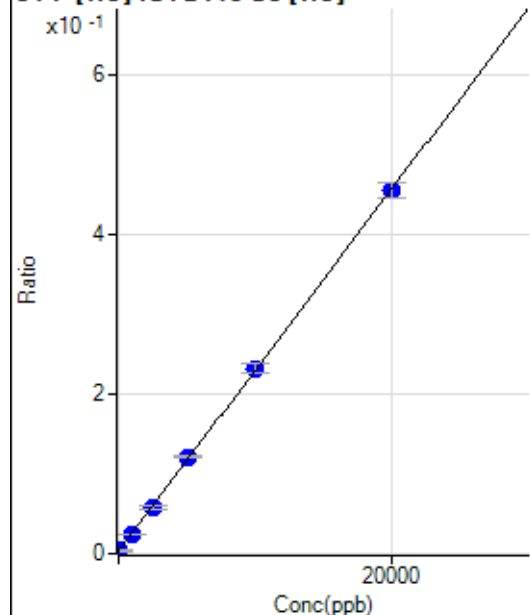
$$DL = 15.39$$

$$BEC = 193.6$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	-31.228	108.34	0.0023	P	40.4
2	☐	0.000	31.228	175.01	0.0037	P	18.9
3	☐	1000.000	916.858	1127.85	0.0239	P	5.3
4	☐	2500.000	2439.925	2842.02	0.0584	P	8.5
5	☐	5000.000	5219.676	5868.00	0.1216	P	1.9
6	☐	10000.000	10094.861	10918.27	0.2323	P	5.1
7	☐	20000.000	19909.317	21324.45	0.4552	P	4.2
8	☐			111.11	0.0025	P	10.2

$$y = 2.2711E-005 * x + 0.0030$$

$$R = 0.9999$$

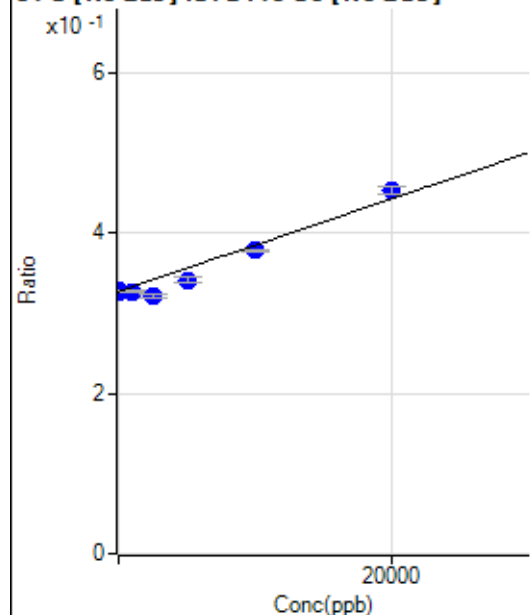
$$DL = 108.8$$

$$BEC = 133.5$$

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	85.654	485107.95	0.3281	P	3.5
2	☐	0.000	-85.654	480082.73	0.3271	P	0.9
3	☐	1000.000	-34.575	491677.61	0.3274	P	0.9
4	☐	2500.000	-1000.748	509181.33	0.3218	P	0.9
5	☐	5000.000	2330.189	534406.10	0.3411	P	2.1
6	☐	10000.000	8923.181	586740.02	0.3792	P	0.6
7	☐	20000.000	21695.185	696328.79	0.4531	P	2.2
8	☐			458274.92	0.3041	P	0.6

$$y = 5.7815\text{E-}006 * x + 0.3276$$

$$R = 0.9826$$

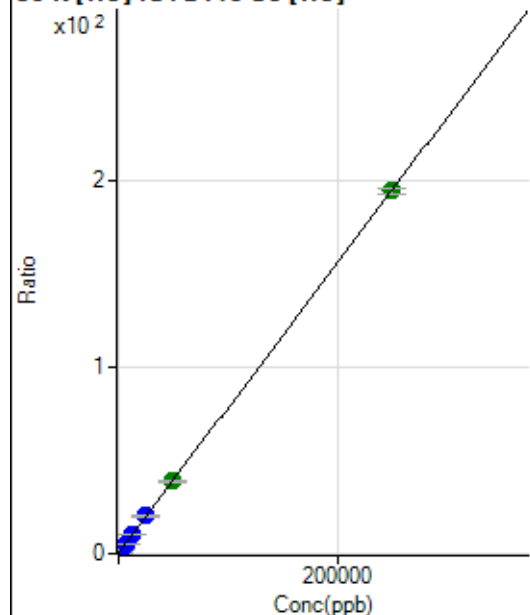
$$DL = 3720$$

$$BEC = 5.667\text{E}+04$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	16629.36	0.3568	P	2.9
2	☐	500.000	486.256	34327.60	0.7340	P	1.8
3	☐	2500.000	2632.531	113236.73	2.3988	P	3.9
4	☐	6250.000	6442.379	260461.45	5.3540	P	1.1
5	☐	12500.000	12775.300	495484.68	10.2663	P	0.4
6	☐	25000.000	25682.140	953417.41	20.2778	P	2.0
7	☐	50000.000	49522.073	1816548.98	38.7699	A	2.5
8	☐	250000.00	250007.49	8686124.41	194.2818	A	1.9

$$y = 7.7568\text{E-}004 * x + 0.3568$$

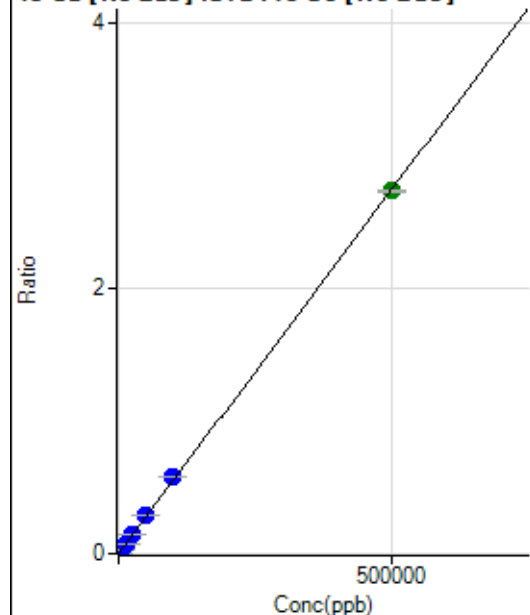
$$R = 1.0000$$

$$DL = 39.87$$

$$BEC = 460$$

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	391.68	0.0003	P	14.9
2	☐	500.000	491.680	4342.44	0.0030	P	12.6
3	☐	5000.000	5165.576	42867.26	0.0285	P	2.5
4	☐	12500.000	12953.276	112620.19	0.0712	P	1.1
5	☐	25000.000	26349.802	226444.61	0.1445	P	2.0
6	☐	50000.000	52741.266	447196.53	0.2890	P	0.5
7	☐	100000.00	104894.88	883206.88	0.5746	P	0.9
8	☐	500000.00	498666.42	4114478.87	2.7305	A	0.5

$$y = 5.4750\text{E-}006 * x + 2.6563\text{E-}004$$

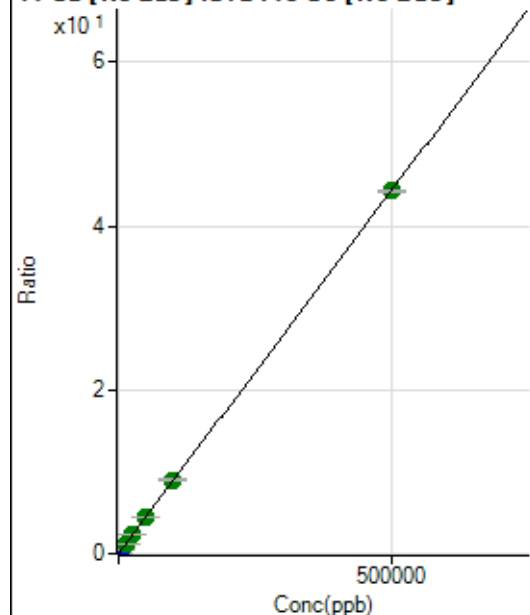
$$R = 0.9999$$

$$DL = 21.75$$

$$BEC = 48.52$$

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	25083.44	0.0170	P	5.0
2	☐	500.000	514.393	91783.76	0.0625	P	0.8
3	☐	5000.000	5216.778	719475.49	0.4791	P	1.5
4	☐	12500.000	12635.810	1798079.40	1.1364	A	0.2
5	☐	25000.000	25855.050	3615207.85	2.3075	A	2.5
6	☐	50000.000	50593.549	6961435.14	4.4992	A	0.9
7	☐	100000.00	101659.75	13869450.31	9.0232	A	1.3
8	☐	500000.00	499560.36	66714970.24	44.2741	A	0.3

$$y = 8.8592\text{E-}005 * x + 0.0170$$

$$R = 1.0000$$

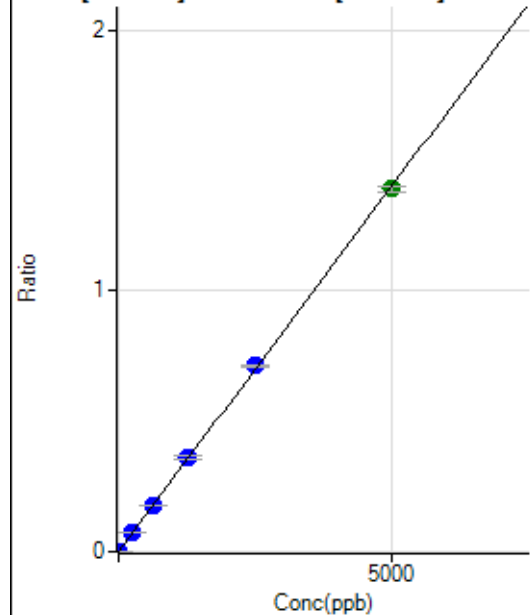
$$DL = 28.57$$

$$BEC = 191.6$$

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	411.13	0.0003	P	8.0
2	☐	5.000	5.083	2497.51	0.0017	P	4.6
3	☐	250.000	253.289	106941.35	0.0712	P	1.5
4	☐	625.000	634.692	281667.89	0.1780	P	1.2
5	☐	1250.000	1288.090	565604.84	0.3610	P	2.7
6	☐	2500.000	2543.628	1102704.18	0.7127	P	0.5
7	☐	5000.000	4967.287	2138862.33	1.3915	A	1.4
8	☐			3820.05	0.0025	P	7.6

$$y = 2.8008\text{E-}004 * x + 2.7793\text{E-}004$$

$$R = 0.9999$$

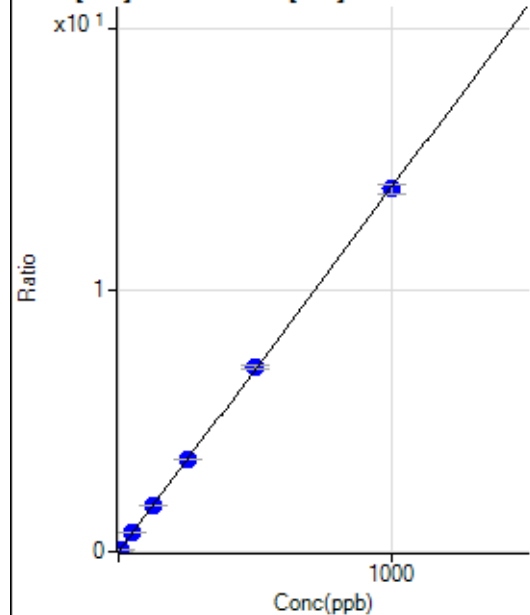
$$DL = 0.2381$$

$$BEC = 0.9923$$

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	31.11	0.0007	P	50.4
2	☐	5.000	5.061	3328.19	0.0712	P	3.0
3	☐	50.000	51.494	33894.64	0.7179	P	4.0
4	☐	125.000	126.936	86045.35	1.7686	P	1.3
5	☐	250.000	252.382	169687.36	3.5159	P	0.4
6	☐	500.000	506.660	331781.35	7.0575	P	2.8
7	☐	1000.000	995.757	649843.54	13.8697	P	2.8
8	☐			1182.28	0.0264	P	8.1

$$y = 0.0139 * x + 6.6664\text{E-}004$$

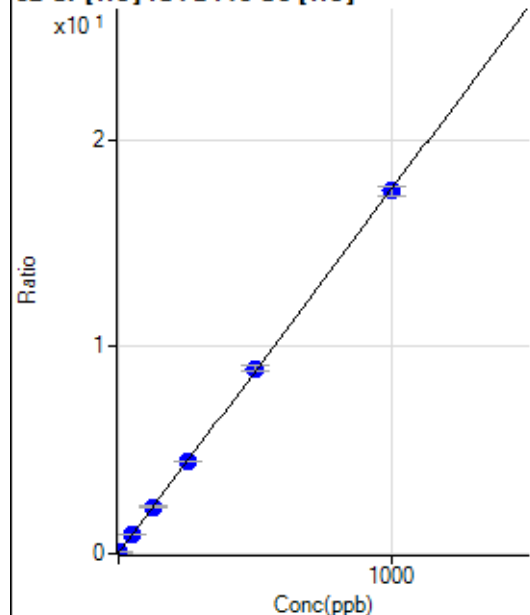
$$R = 1.0000$$

$$DL = 0.07238$$

$$BEC = 0.04786$$

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	1075.61	0.0231	P	6.4
2	☐	2.000	1.850	2602.48	0.0556	P	3.8
3	☐	50.000	50.881	43377.81	0.9188	P	3.5
4	☐	125.000	127.035	109904.60	2.2593	P	1.7
5	☐	250.000	251.459	214755.16	4.4496	P	0.3
6	☐	500.000	507.959	421495.69	8.9650	P	2.4
7	☐	1000.000	995.358	822040.99	17.5449	P	2.7
8	☐			23448.15	0.5245	P	2.7

$$y = 0.0176 * x + 0.0231$$

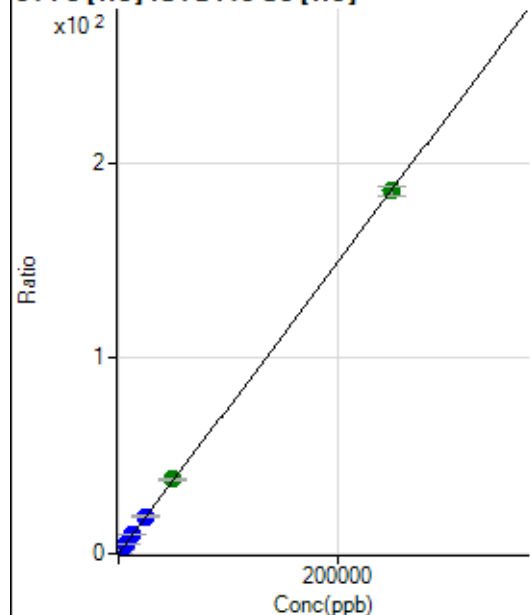
$$R = 1.0000$$

$$DL = 0.2518$$

$$BEC = 1.311$$

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	333.34	0.0072	P	14.6
2	☐	50.000	53.838	2207.62	0.0472	P	9.2
3	☐	2500.000	2620.869	92316.21	1.9565	P	5.5
4	☐	6250.000	6394.190	231720.02	4.7631	P	1.2
5	☐	12500.000	12741.350	457739.62	9.4841	P	0.1
6	☐	25000.000	25525.316	892883.50	18.9928	P	2.8
7	☐	50000.000	51054.456	1779591.04	37.9812	A	2.7
8	☐	250000.00	249719.69	8304147.87	185.7475	A	2.5

$$y = 7.4380E-004 * x + 0.0072$$

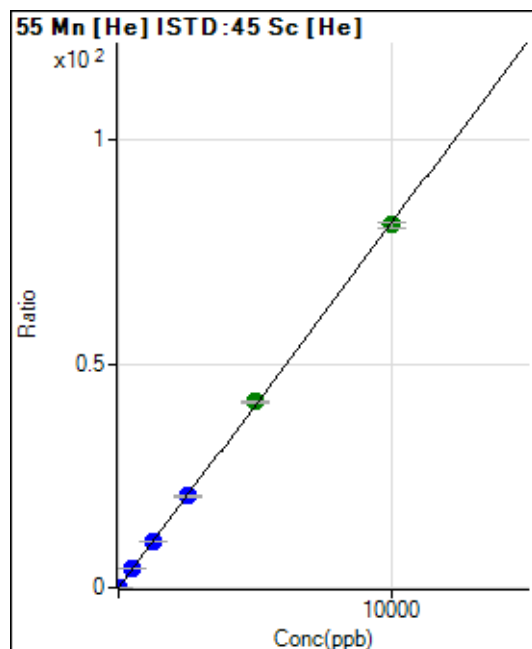
$$R = 1.0000$$

$$DL = 4.211$$

$$BEC = 9.619$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	108.89	0.0023	P	4.4
2	☐	1.000	0.924	461.12	0.0099	P	5.1
3	☐	500.000	515.872	198356.17	4.2018	P	4.3
4	☐	1250.000	1267.958	502225.34	10.3241	P	1.6
5	☐	2500.000	2511.698	986922.51	20.4487	P	0.8
6	☐	5000.000	5089.923	1948327.19	41.4366	A	1.9
7	☐	10000.000	9949.076	3795034.87	80.9924	A	1.9
8	☐			9102.97	0.2036	P	2.3

$$y = 0.0081 * x + 0.0023$$

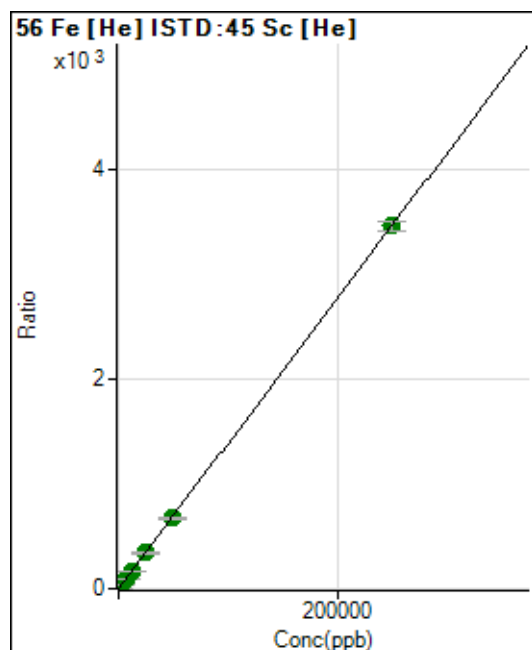
$$R = 0.9999$$

$$DL = 0.03787$$

$$BEC = 0.287$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	2252.07	0.0483	P	4.7
2	☐	50.000	50.849	35219.62	0.7530	P	1.2
3	☐	2500.000	2547.199	1669105.42	35.3495	A	3.2
4	☐	6250.000	6260.916	4223071.74	86.8173	A	2.1
5	☐	12500.000	12224.248	8178870.44	169.4621	A	0.2
6	☐	25000.000	24890.444	16218056.15	345.0007	A	3.1
7	☐	50000.000	48634.646	31582623.85	674.0675	A	2.6
8	☐	250000.00	250297.06	155072820.1	3,468.872	A	2.7

$$y = 0.0139 * x + 0.0483$$

$$R = 1.0000$$

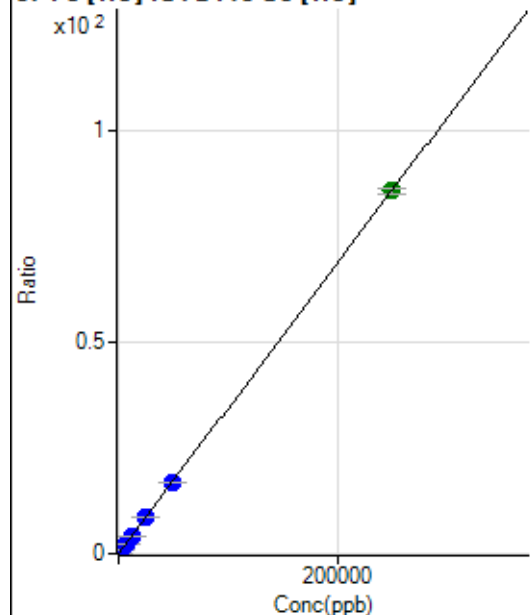
$$DL = 0.494$$

$$BEC = 3.487$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	81.48	0.0017	P	16.0
2	☐	50.000	50.663	894.49	0.0191	P	1.5
3	☐	2500.000	2549.444	41376.88	0.8761	P	2.5
4	☐	6250.000	6366.107	106285.62	2.1852	P	2.8
5	☐	12500.000	12418.929	205653.96	4.2611	P	0.4
6	☐	25000.000	25112.875	405019.85	8.6148	P	2.4
7	☐	50000.000	49139.641	789759.29	16.8553	P	2.3
8	☐	250000.00	250161.44	3836017.01	85.8004	A	1.9

$$y = 3.4297\text{E-}004 * x + 0.0017$$

R = 1.0000

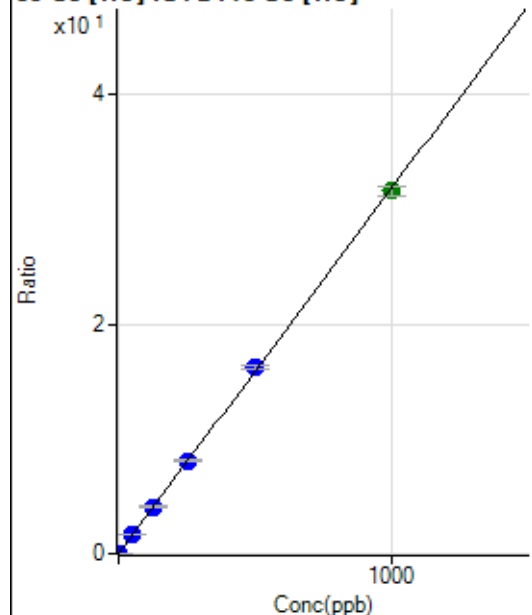
DL = 2.447

BEC = 5.099

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	134.45	0.0029	P	11.5
2	☐	1.000	1.015	1644.56	0.0352	P	4.7
3	☐	50.000	52.040	78263.55	1.6579	P	4.5
4	☐	125.000	128.655	199187.94	4.0945	P	1.4
5	☐	250.000	255.201	391851.63	8.1191	P	0.5
6	☐	500.000	509.793	762359.24	16.2160	P	2.6
7	☐	1000.000	993.245	1480129.73	31.5913	A	2.9
8	☐			5006.48	0.1120	P	2.8

$$y = 0.0318 * x + 0.0029$$

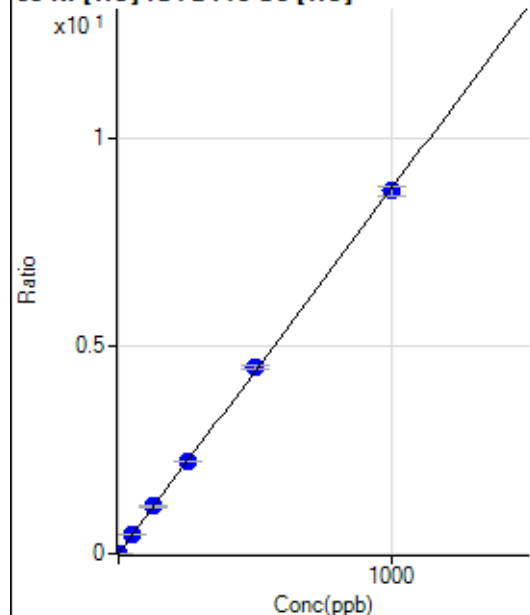
R = 0.9999

DL = 0.03137

BEC = 0.09071

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	151.11	0.0032	P	4.8
2	☐	1.000	1.076	593.35	0.0127	P	3.0
3	☐	50.000	51.800	21627.62	0.4581	P	3.7
4	☐	125.000	129.064	55287.98	1.1365	P	1.8
5	☐	250.000	252.118	107000.57	2.2171	P	1.1
6	☐	500.000	510.595	210924.17	4.4867	P	2.9
7	☐	1000.000	993.575	408934.68	8.7278	P	2.4
8	☐			7603.21	0.1700	P	2.0

$$y = 0.0088 * x + 0.0032$$

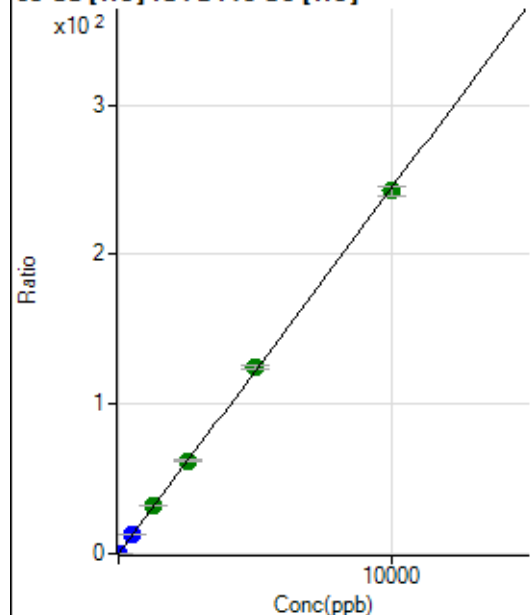
$$R = 0.9999$$

$$DL = 0.05329$$

$$BEC = 0.3692$$

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	357.79	0.0077	P	6.3
2	☐	2.000	2.040	2690.28	0.0575	P	5.6
3	☐	500.000	526.881	608201.63	12.8830	P	3.9
4	☐	1250.000	1304.462	1551067.16	31.8846	A	1.4
5	☐	2500.000	2550.621	3008546.58	62.3367	A	0.9
6	☐	5000.000	5099.743	5858957.20	124.6290	A	2.9
7	☐	10000.000	9929.321	11368919.83	242.6484	A	2.6
8	☐			22771.67	0.5094	P	3.0

$$y = 0.0244 * x + 0.0077$$

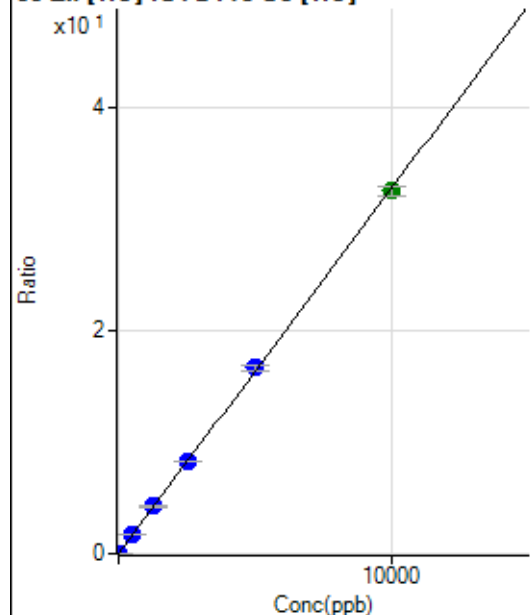
$$R = 0.9999$$

$$DL = 0.05974$$

$$BEC = 0.3142$$

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	115.56	0.0025	P	14.5
2	☐	2.000	2.328	472.23	0.0101	P	1.9
3	☐	500.000	525.332	81267.91	1.7213	P	3.7
4	☐	1250.000	1290.579	205539.23	4.2252	P	1.6
5	☐	2500.000	2542.345	401591.69	8.3209	P	0.5
6	☐	5000.000	5100.962	784713.12	16.6926	P	3.1
7	☐	10000.000	9932.594	1522812.23	32.5015	A	2.6
8	☐			11722.71	0.2622	P	2.6

$$y = 0.0033 * x + 0.0025$$

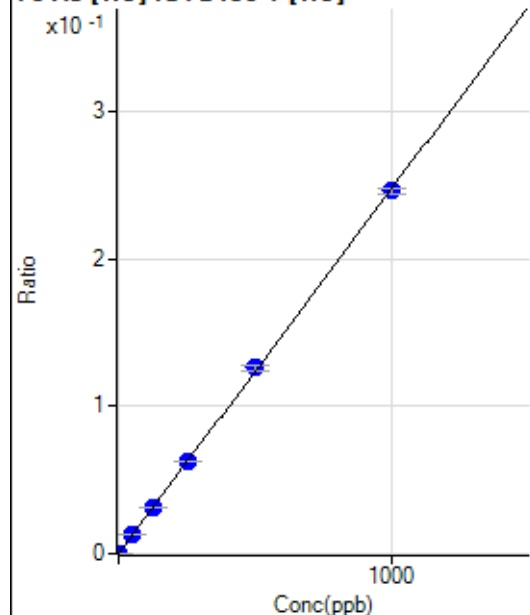
$$R = 0.9999$$

$$DL = 0.33$$

$$BEC = 0.758$$

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	20.67	0.0000	P	32.7
2	☐	1.000	0.909	118.34	0.0003	P	14.0
3	☐	50.000	51.396	5560.66	0.0128	P	1.1
4	☐	125.000	124.645	14185.53	0.0309	P	1.0
5	☐	250.000	252.126	28031.78	0.0624	P	0.5
6	☐	500.000	509.545	55051.24	0.1260	P	3.7
7	☐	1000.000	994.671	108052.98	0.2460	P	1.4
8	☐			225.36	0.0005	P	8.0

$$y = 2.4726E-004 * x + 4.8086E-005$$

$$R = 0.9999$$

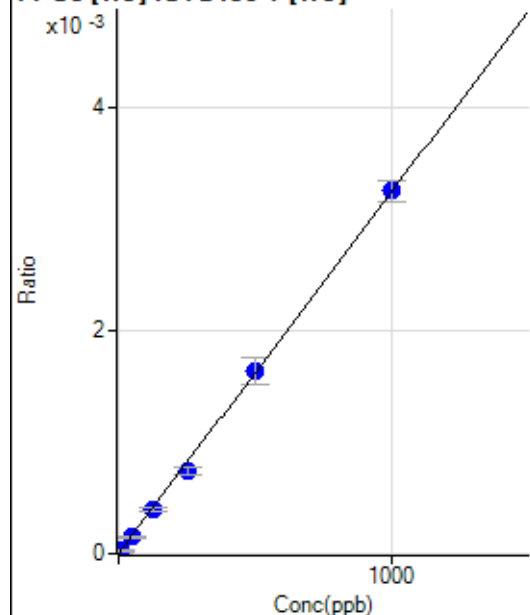
$$DL = 0.1907$$

$$BEC = 0.1945$$

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	8.704	13.33	0.0000	P	66.5
3	☐	50.000	45.636	65.56	0.0002	P	9.4
4	☐	125.000	121.560	182.23	0.0004	P	5.5
5	☐	250.000	228.029	333.34	0.0007	P	9.5
6	☐	500.000	505.693	715.58	0.0016	P	15.1
7	☐	1000.000	1003.276	1430.09	0.0033	P	6.2
8	☐			7.78	0.0000	P	26.3

$$y = 3.2421\text{E-}006 * x + 2.5886\text{E-}006$$

$$R = 0.9997$$

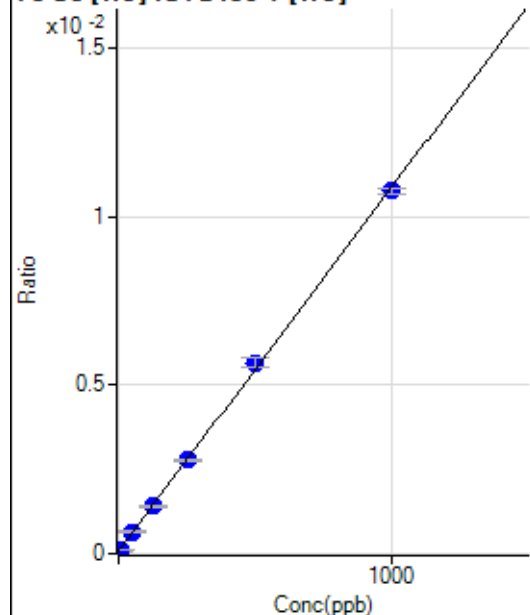
$$DL = 4.149$$

$$BEC = 0.7984$$

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	32.67	0.0001	P	6.8
2	☐	5.000	4.988	56.34	0.0001	P	6.9
3	☐	50.000	53.230	283.36	0.0007	P	6.4
4	☐	125.000	124.751	654.08	0.0014	P	3.5
5	☐	250.000	250.904	1251.19	0.0028	P	2.1
6	☐	500.000	517.971	2475.14	0.0057	P	5.1
7	☐	1000.000	990.658	4731.61	0.0108	P	1.4
8	☐			40.67	0.0001	P	11.7

$$y = 1.0796\text{E-}005 * x + 7.6037\text{E-}005$$

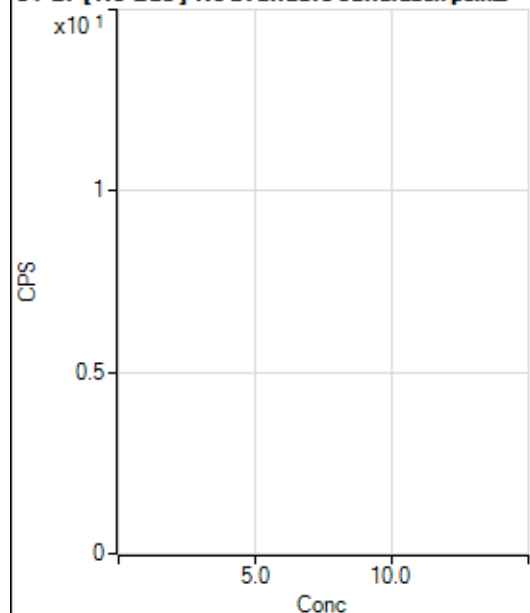
$$R = 0.9998$$

$$DL = 1.427$$

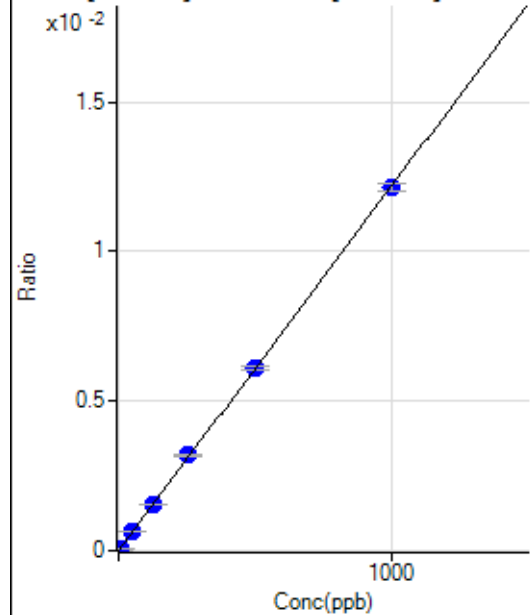
$$BEC = 7.043$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1878.73		P	5.4
2	☐			1795.31		P	9.4
3	☐			2155.73		P	3.1
4	☐			1872.06		P	6.6
5	☐			1885.41		P	7.4
6	☐			1922.12		P	2.4
7	☐			1888.75		P	8.3
8	☐			1885.42		P	3.4

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	-44.45	0.0000	P	-47.
2	☐	5.000	6.345	249.14	0.0001	P	36.0
3	☐	50.000	51.739	2425.64	0.0006	P	3.4
4	☐	125.000	125.571	6272.58	0.0015	P	2.3
5	☐	250.000	261.486	12908.86	0.0032	P	0.5
6	☐	500.000	502.978	25025.27	0.0061	P	1.8
7	☐	1000.000	995.474	49329.23	0.0121	P	2.4
8	☐			75.47	0.0000	P	69.2

$$y = 1.2195E-005 * x - 1.1636E-005$$

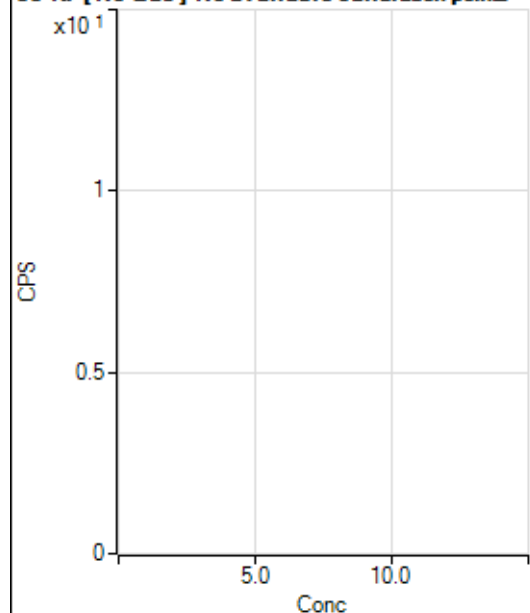
$$R = 0.9999$$

$$DL = 1.361$$

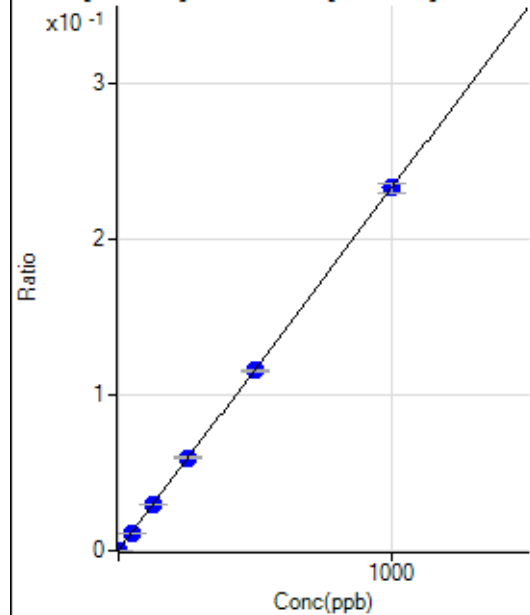
$$BEC = -0.9542$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			533.35		P	2.3
2	☐			453.35		P	14.0
3	☐			457.79		P	5.8
4	☐			508.90		P	7.9
5	☐			426.68		P	7.7
6	☐			486.68		P	9.7
7	☐			496.68		P	12.8
8	☐			431.13		P	11.5

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	750.04	0.0002	P	4.2
2	☐	1.000	1.025	1650.14	0.0004	P	5.2
3	☐	50.000	49.253	45714.17	0.0117	P	0.9
4	☐	125.000	126.303	122287.74	0.0296	P	1.1
5	☐	250.000	255.082	242280.64	0.0596	P	1.4
6	☐	500.000	496.460	473670.17	0.1159	P	1.0
7	☐	1000.000	1000.374	948842.62	0.2333	P	2.6
8	☐			4022.91	0.0010	P	5.2

$$y = 2.3301\text{E-}004 * x + 1.9532\text{E-}004$$

$$R = 1.0000$$

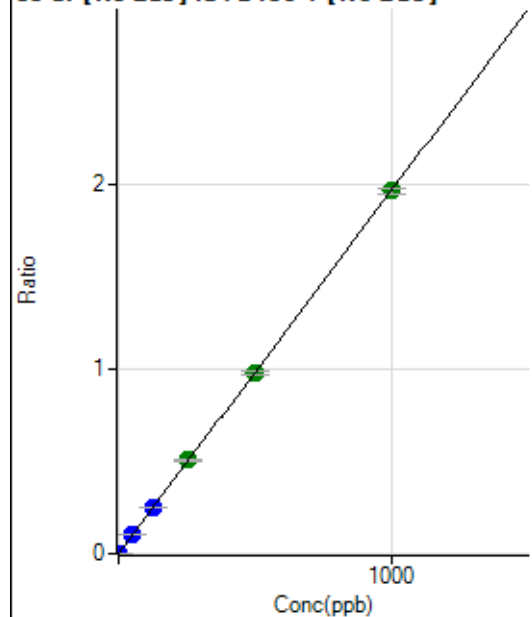
$$DL = 0.1068$$

$$BEC = 0.8383$$

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	352.79	0.0001	P	14.7
2	☐	1.000	1.034	8099.79	0.0021	P	4.2
3	☐	50.000	51.367	396746.24	0.1013	P	1.4
4	☐	125.000	127.502	1037408.08	0.2513	P	0.6
5	☐	250.000	257.119	2058663.28	0.5067	A	1.8
6	☐	500.000	498.358	4014318.75	0.9820	A	1.5
7	☐	1000.000	998.660	8004417.80	1.9678	A	1.4
8	☐			29943.80	0.0075	P	2.6

$$y = 0.0020 * x + 9.1640E-005$$

$$R = 1.0000$$

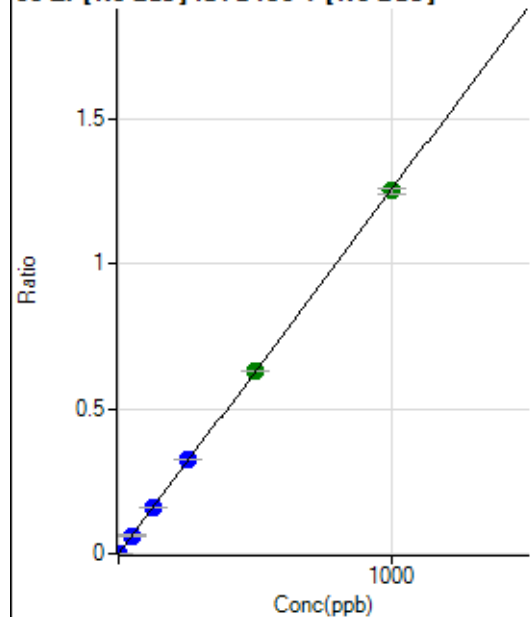
$$DL = 0.02046$$

$$BEC = 0.04651$$

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	166.67	0.0000	P	24.4
2	☐	1.000	0.979	4842.64	0.0013	P	4.3
3	☐	50.000	50.054	246508.68	0.0629	P	1.0
4	☐	125.000	126.725	657496.67	0.1593	P	0.6
5	☐	250.000	259.644	1325732.19	0.3263	P	0.2
6	☐	500.000	501.553	2576449.99	0.6303	A	0.5
7	☐	1000.000	996.594	5093910.97	1.2523	A	1.7
8	☐			9005.93	0.0022	P	1.8

$$y = 0.0013 * x + 4.3375E-005$$

$$R = 0.9999$$

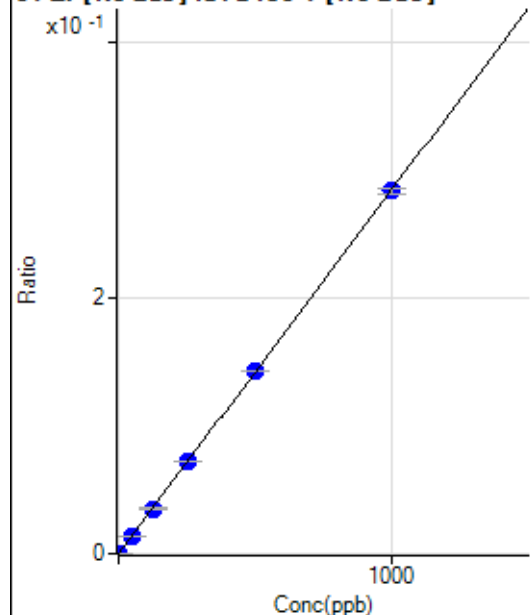
$$DL = 0.0253$$

$$BEC = 0.03452$$

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	36.11	0.0000	P	12.5
2	☐	1.000	0.955	1069.52	0.0003	P	10.9
3	☐	50.000	49.069	54668.89	0.0140	P	0.9
4	☐	125.000	123.991	145523.58	0.0353	P	1.6
5	☐	250.000	254.247	293677.29	0.0723	P	0.6
6	☐	500.000	502.628	584099.84	0.1429	P	0.6
7	☐	1000.000	997.797	1153820.10	0.2837	P	1.2
8	☐			1950.20	0.0005	P	3.5

$$y = 2.8427E-004 * x + 9.3948E-006$$

$$R = 1.0000$$

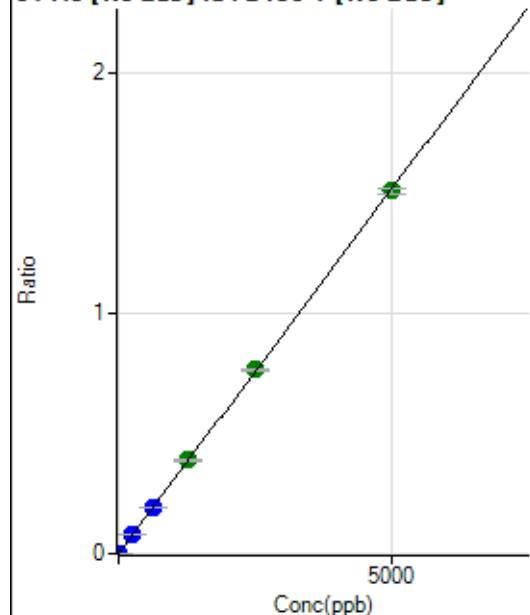
$$DL = 0.0124$$

$$BEC = 0.03305$$

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	72.23	0.0000	P	11.8
2	☐	5.000	5.240	6101.49	0.0016	P	2.6
3	☐	250.000	253.986	301243.85	0.0769	P	1.0
4	☐	625.000	634.859	793429.89	0.1922	P	1.3
5	☐	1250.000	1286.081	1581997.47	0.3894	A	1.1
6	☐	2500.000	2522.233	3121555.74	0.7636	A	1.0
7	☐	5000.000	4978.432	6130764.63	1.5072	A	1.7
8	☐			13690.37	0.0034	P	3.0

$$y = 3.0275E-004 * x + 1.8781E-005$$

$$R = 1.0000$$

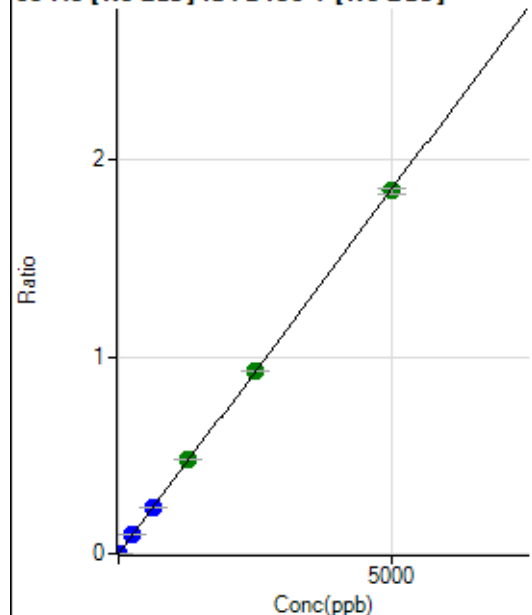
$$DL = 0.02195$$

$$BEC = 0.06203$$

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	27.78	0.0000	P	35.4
2	☐	5.000	5.424	7643.93	0.0020	P	3.3
3	☐	250.000	254.840	368796.72	0.0942	P	0.7
4	☐	625.000	635.342	968942.65	0.2347	P	1.4
5	☐	1250.000	1287.746	1933059.46	0.4758	A	0.8
6	☐	2500.000	2513.323	3795924.91	0.9286	A	0.4
7	☐	5000.000	4982.367	7488028.12	1.8408	A	1.3
8	☐			17856.33	0.0045	P	0.3

$$y = 3.6947E-004 * x + 7.2489E-006$$

$$R = 1.0000$$

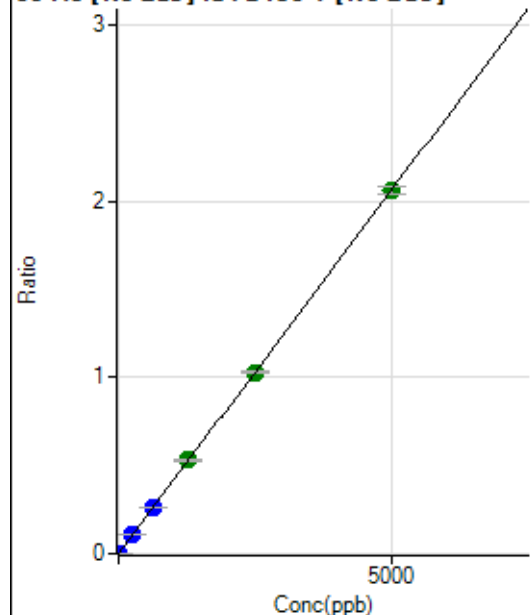
$$DL = 0.02086$$

$$BEC = 0.01962$$

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	72.23	0.0000	P	46.1
2	☐	5.000	5.435	8597.32	0.0023	P	4.1
3	☐	250.000	254.820	412030.30	0.1052	P	0.6
4	☐	625.000	635.319	1082490.93	0.2622	P	1.0
5	☐	1250.000	1284.496	2154091.30	0.5302	A	1.5
6	☐	2500.000	2499.313	4217058.12	1.0316	A	1.1
7	☐	5000.000	4990.188	8377675.36	2.0597	A	2.1
8	☐			19288.83	0.0048	P	4.3

$$y = 4.1275E-004 * x + 1.8807E-005$$

$$R = 1.0000$$

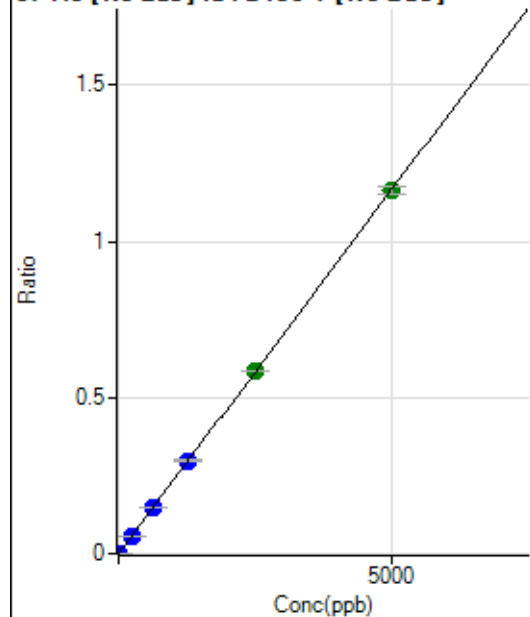
$$DL = 0.06295$$

$$BEC = 0.04556$$

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	8.33	0.0000	P	2.6
2	☐	5.000	5.276	4678.67	0.0012	P	5.7
3	☐	250.000	249.857	227970.37	0.0582	P	0.3
4	☐	625.000	626.394	602309.25	0.1459	P	1.1
5	☐	1250.000	1279.772	1211212.09	0.2981	P	0.8
6	☐	2500.000	2511.267	2391346.62	0.5850	A	0.8
7	☐	5000.000	4986.756	4724953.97	1.1616	A	2.1
8	☐			11101.98	0.0028	P	0.5

$$y = 2.3295E-004 * x + 2.1691E-006$$

$$R = 1.0000$$

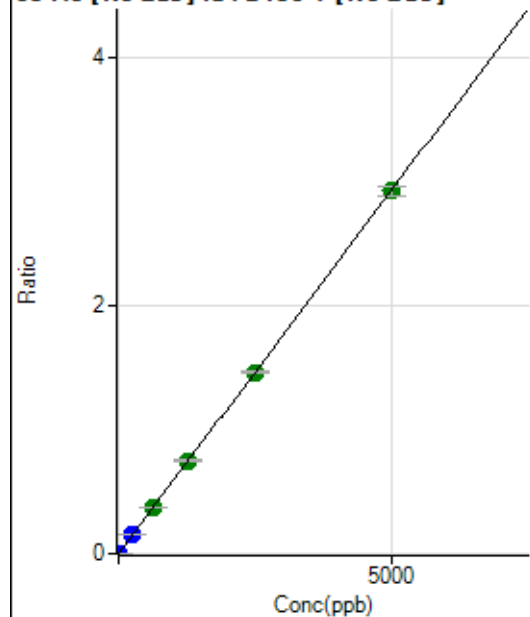
$$DL = 0.0007152$$

$$BEC = 0.009312$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	5.479	12202.91	0.0032	P	3.3
3	☐	250.000	256.505	588550.69	0.1503	P	1.0
4	☐	625.000	631.485	1527144.35	0.3700	A	0.6
5	☐	1250.000	1280.134	3046973.90	0.7500	A	0.9
6	☐	2500.000	2499.042	5984587.02	1.4641	A	1.4
7	☐	5000.000	4991.809	11894341.85	2.9244	A	2.3
8	☐			27756.10	0.0069	P	1.4

$$y = 5.8585E-004 * x + 0.0000E+000$$

$$R = 1.0000$$

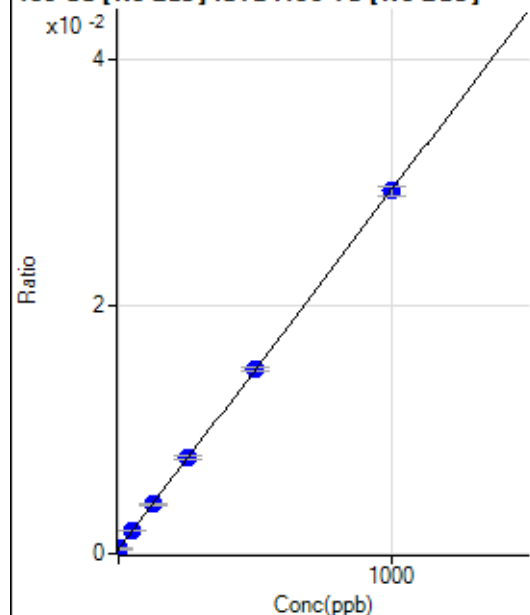
$$DL = 0$$

$$BEC = 0$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	894.50	0.0004	P	13.8
2	☐	1.000	1.069	961.17	0.0004	P	8.7
3	☐	50.000	51.868	4767.62	0.0019	P	3.2
4	☐	125.000	124.681	10626.59	0.0040	P	4.7
5	☐	250.000	254.987	20738.31	0.0078	P	2.5
6	☐	500.000	501.667	39880.45	0.0149	P	1.7
7	☐	1000.000	997.866	78430.85	0.0294	P	2.9
8	☐			955.61	0.0004	P	9.9

$$y = 2.9053E-005 * x + 3.6367E-004$$

R = 1.0000

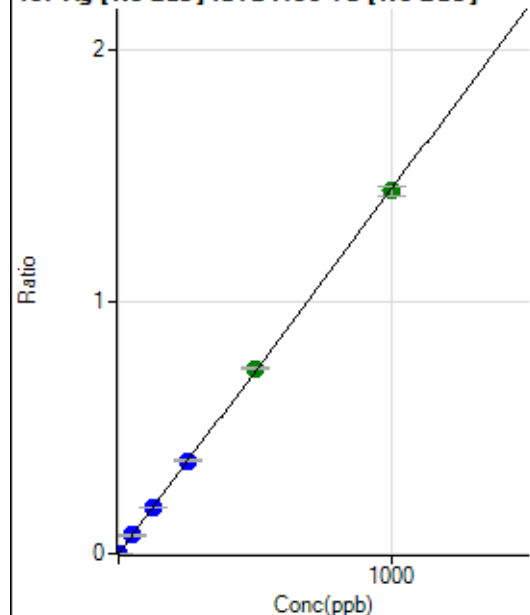
DL = 5.199

BEC = 12.52

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	19.45	0.0000	P	23.8
2	☐	1.000	0.988	3503.33	0.0014	P	4.6
3	☐	50.000	50.278	185931.38	0.0729	P	1.1
4	☐	125.000	126.933	490829.86	0.1841	P	1.0
5	☐	250.000	254.608	985503.96	0.3693	P	1.7
6	☐	500.000	507.550	1965536.29	0.7362	A	0.9
7	☐	1000.000	994.817	3855210.55	1.4429	A	3.0
8	☐			6507.29	0.0025	P	6.2

$$y = 0.0015 * x + 7.9110E-006$$

R = 0.9999

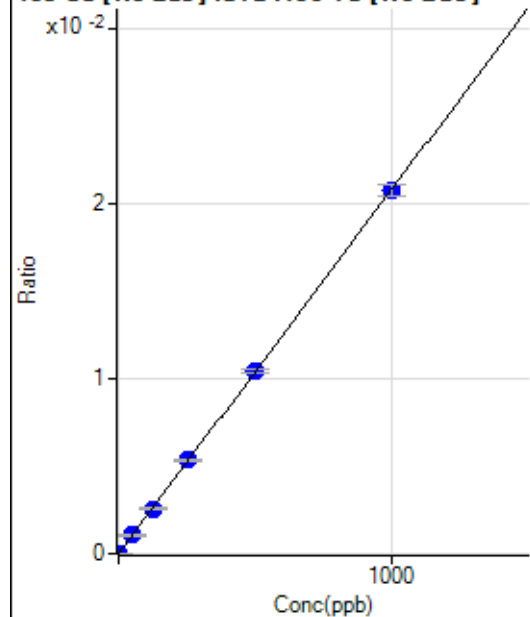
DL = 0.003894

BEC = 0.005454

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	11.11	0.0000	P	109.
2	☐	1.000	0.877	55.56	0.0000	P	19.1
3	☐	50.000	50.147	2672.51	0.0010	P	2.0
4	☐	125.000	123.588	6867.05	0.0026	P	2.0
5	☐	250.000	256.201	14240.85	0.0053	P	1.0
6	☐	500.000	503.782	27993.73	0.0105	P	2.2
7	☐	1000.000	996.728	55427.43	0.0207	P	3.1
8	☐			130.56	0.0000	P	9.4

$$y = 2.0805\text{E-}005 * x + 4.5924\text{E-}006$$

$$R = 1.0000$$

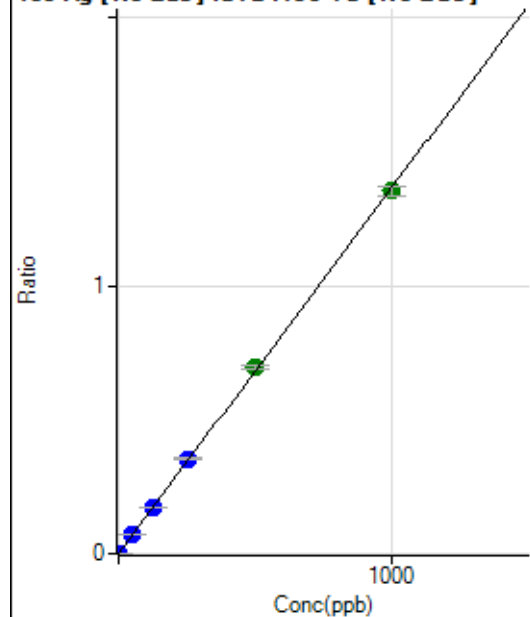
$$DL = 0.7275$$

$$BEC = 0.2207$$

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	13.89	0.0000	P	71.4
2	☐	1.000	1.041	3464.43	0.0014	P	5.8
3	☐	50.000	51.218	177936.76	0.0698	P	2.7
4	☐	125.000	128.466	466778.00	0.1751	P	0.4
5	☐	250.000	257.977	938256.20	0.3516	P	2.0
6	☐	500.000	510.079	1855833.35	0.6952	A	1.8
7	☐	1000.000	992.472	3614342.27	1.3526	A	2.4
8	☐			5995.91	0.0023	P	4.1

$$y = 0.0014 * x + 5.7093\text{E-}006$$

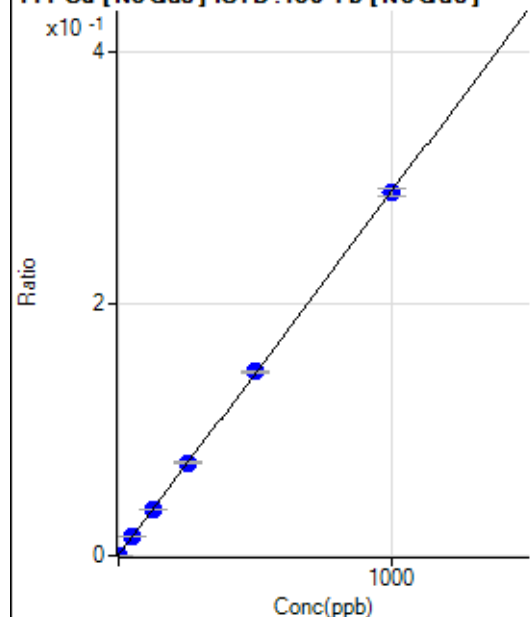
$$R = 0.9999$$

$$DL = 0.008977$$

$$BEC = 0.004189$$

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	701.70	0.0003	P	16.6
2	☐	1.000	0.988	1388.13	0.0006	P	8.6
3	☐	50.000	50.373	37781.10	0.0148	P	2.0
4	☐	125.000	127.292	98685.63	0.0370	P	1.0
5	☐	250.000	254.717	196912.89	0.0738	P	1.9
6	☐	500.000	504.400	389342.60	0.1458	P	1.2
7	☐	1000.000	996.316	769027.33	0.2878	P	2.1
8	☐			1898.45	0.0007	P	3.7

$$y = 2.8856E-004 * x + 2.8518E-004$$

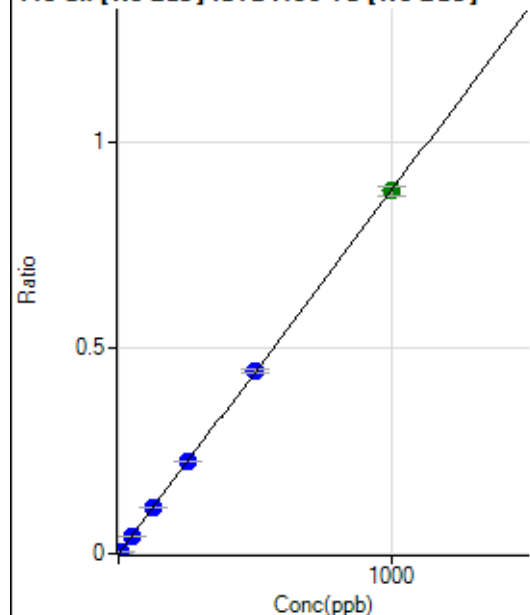
$$R = 1.0000$$

$$DL = 0.4914$$

$$BEC = 0.9883$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	233.34	0.0001	P	21.8
2	☐	5.000	5.211	11405.05	0.0047	P	4.4
3	☐	50.000	49.488	111481.86	0.0437	P	1.7
4	☐	125.000	126.132	296761.78	0.1113	P	0.4
5	☐	250.000	253.363	596508.40	0.2235	P	0.9
6	☐	500.000	501.438	1180672.74	0.4423	P	1.6
7	☐	1000.000	998.323	2352503.68	0.8804	A	2.4
8	☐			5529.04	0.0021	P	4.5

$$y = 8.8178E-004 * x + 9.4785E-005$$

$$R = 1.0000$$

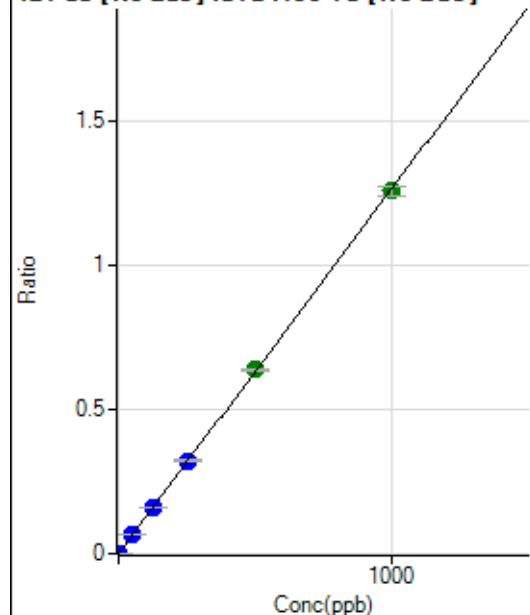
$$DL = 0.07026$$

$$BEC = 0.1075$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	27.78	0.0000	P	35.5
2	☐	2.000	2.035	6282.16	0.0026	P	2.0
3	☐	50.000	50.983	164210.74	0.0644	P	2.2
4	☐	125.000	127.193	428408.62	0.1607	P	0.9
5	☐	250.000	255.356	861035.49	0.3226	P	0.8
6	☐	500.000	506.042	1706866.01	0.6393	A	0.9
7	☐	1000.000	995.317	3359945.95	1.2574	A	2.5
8	☐			7327.13	0.0028	P	1.8

$$y = 0.0013 * x + 1.1345E-005$$

$$R = 1.0000$$

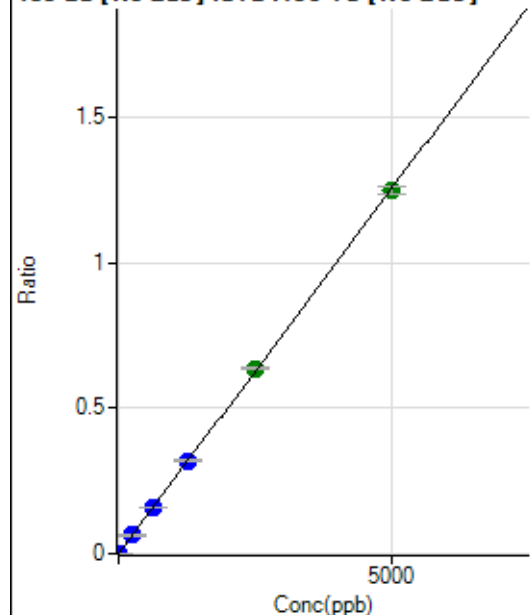
$$DL = 0.009556$$

$$BEC = 0.00898$$

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	41.67	0.0000	P	52.0
2	☐	10.000	10.169	6237.73	0.0026	P	2.5
3	☐	250.000	252.346	161200.57	0.0632	P	2.4
4	☐	625.000	634.985	424173.66	0.1591	P	0.9
5	☐	1250.000	1277.141	853992.96	0.3200	P	1.4
6	☐	2500.000	2538.503	1698104.70	0.6360	A	1.1
7	☐	5000.000	4972.598	3329283.41	1.2459	A	2.1
8	☐			10912.98	0.0042	P	0.8

$$y = 2.5055E-004 * x + 1.6943E-005$$

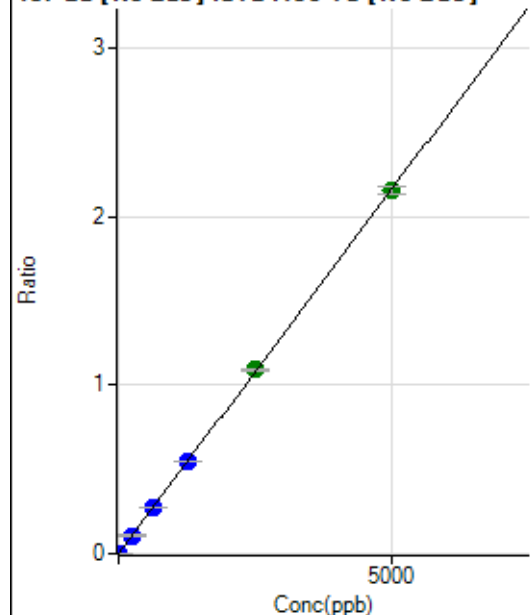
$$R = 0.9999$$

$$DL = 0.1056$$

$$BEC = 0.06762$$

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	105.56	0.0000	P	36.6
2	☐	10.000	10.441	11085.41	0.0046	P	4.1
3	☐	250.000	249.125	274802.81	0.1078	P	2.1
4	☐	625.000	632.390	729333.32	0.2736	P	1.2
5	☐	1250.000	1267.894	1463727.40	0.5485	P	1.2
6	☐	2500.000	2525.474	2916601.93	1.0924	A	0.5
7	☐	5000.000	4981.909	5758460.24	2.1549	A	2.0
8	☐			19433.85	0.0074	P	0.8

$$y = 4.3254\text{E-}004 * x + 4.2951\text{E-}005$$

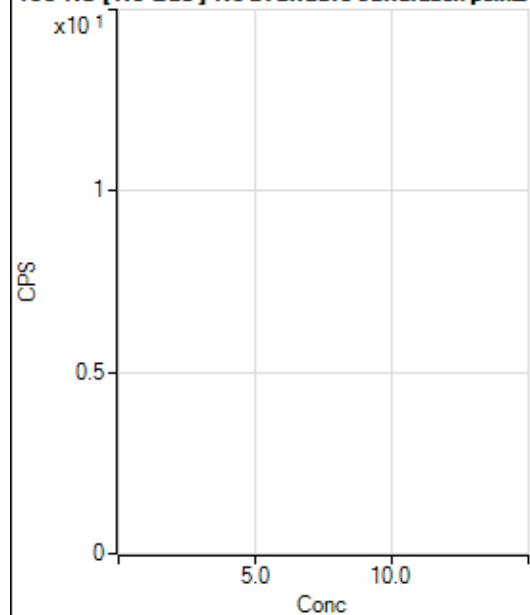
$$R = 1.0000$$

$$DL = 0.1089$$

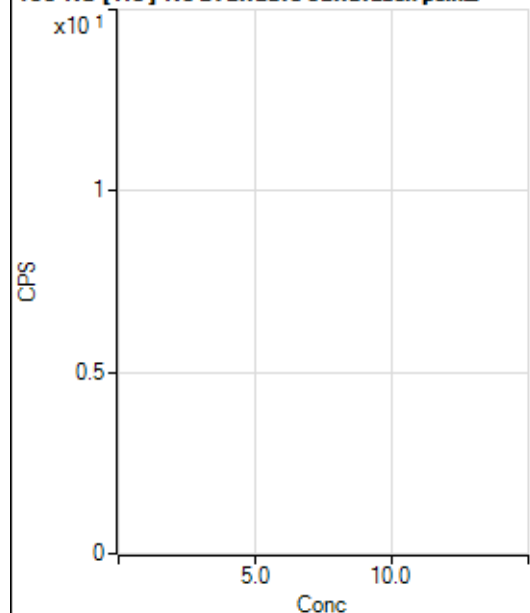
$$BEC = 0.0993$$

Weight: <None>

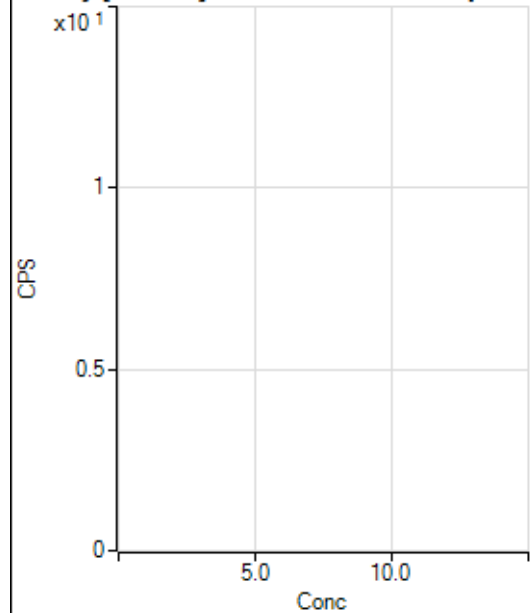
Min Conc: 0

150 Nd [No Gas] No available calibration points

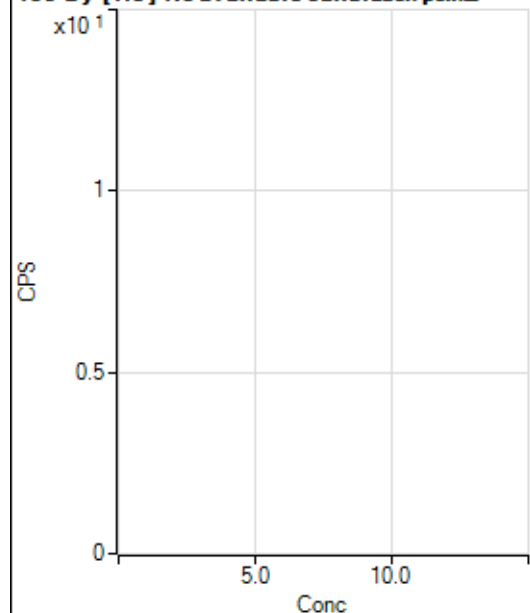
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	173.
2	☐			0.00		P	
3	☐			17.78		P	43.3
4	☐			26.67		P	43.3
5	☐			44.45		P	48.2
6	☐			53.33		P	25.0
7	☐			97.78		P	19.7
8	☐			31.11		P	24.7

150 Nd [He] No available calibration points

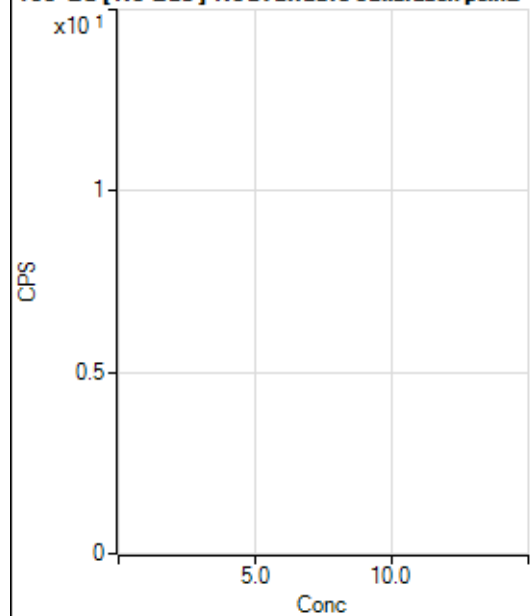
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			0.00		P	
3	☐			2.22		P	86.6
4	☐			3.33		P	100.
5	☐			1.11		P	173.
6	☐			2.22		P	86.6
7	☐			8.89		P	57.3
8	☐			10.00		P	57.7

156 Dy [No Gas] No available calibration points

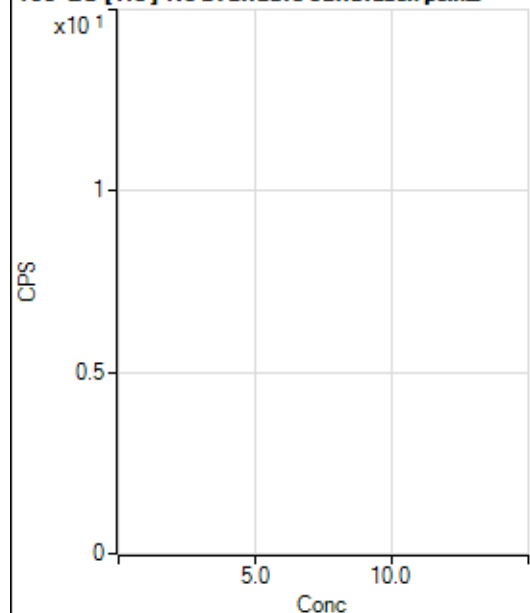
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.56		P	173.
2	☐			11.11		P	43.3
3	☐			19.45		P	107.
4	☐			25.00		P	33.3
5	☐			22.22		P	43.3
6	☐			41.67		P	52.9
7	☐			69.45		P	68.2
8	☐			186.12		P	22.5

156 Dy [He] No available calibration points

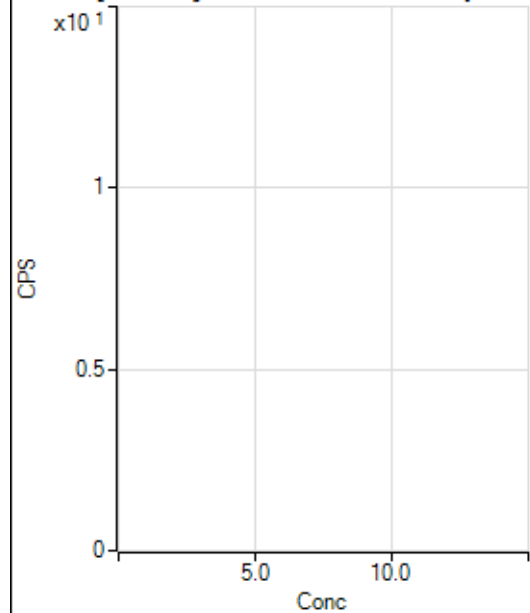
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			3.33		P	173.
3	☐			5.55		P	124.
4	☐			4.45		P	86.6
5	☐			12.22		P	31.5
6	☐			12.22		P	15.7
7	☐			31.11		P	27.0
8	☐			71.11		P	7.2

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

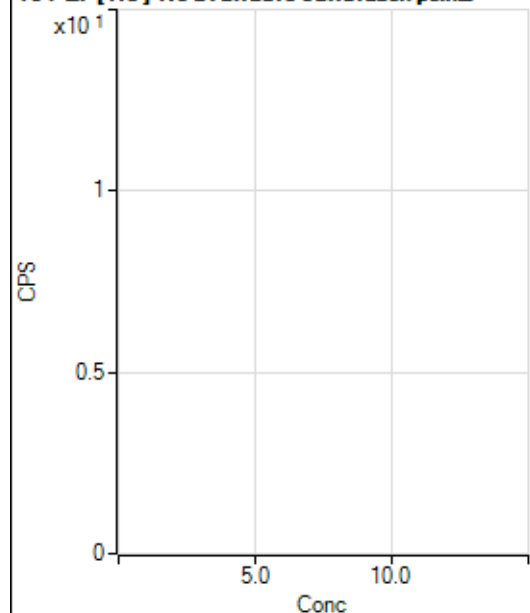
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			36.11		P	26.7
2	☐			19.44		P	65.5
3	☐			16.67		P	50.0
4	☐			27.78		P	45.8
5	☐			41.67		P	60.0
6	☐			58.34		P	65.5
7	☐			80.56		P	23.9
8	☐			191.68		P	11.5

160 Gd [He] No available calibration points

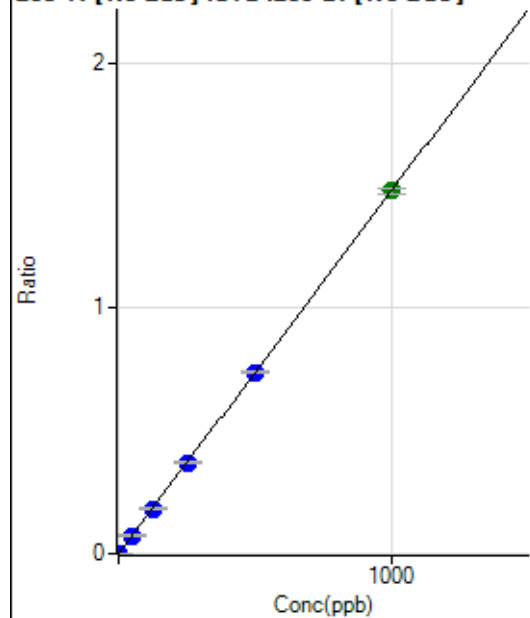
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			7.78		P	65.5
2	☐			6.67		P	50.0
3	☐			11.11		P	45.8
4	☐			11.11		P	45.8
5	☐			13.33		P	66.1
6	☐			17.78		P	10.8
7	☐			22.22		P	22.9
8	☐			108.89		P	11.6

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			13.89		P	34.7
2	☐			19.44		P	49.5
3	☐			11.11		P	43.3
4	☐			27.78		P	105.
5	☐			36.11		P	53.3
6	☐			27.78		P	75.5
7	☐			19.44		P	89.2
8	☐			27.78		P	34.6

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.
2	☐			3.33		P	100.
3	☐			10.00		P	88.2
4	☐			4.44		P	114.
5	☐			8.89		P	78.1
6	☐			14.44		P	35.3
7	☐			4.45		P	86.6
8	☐			20.00		P	50.0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	266.68	0.0002	P	15.7
2	☐	1.000	0.984	2383.63	0.0016	P	2.3
3	☐	50.000	49.930	111005.02	0.0740	P	1.3
4	☐	125.000	124.008	292591.01	0.1835	P	1.3
5	☐	250.000	250.948	585273.20	0.3712	P	0.7
6	☐	500.000	500.031	1175456.44	0.7394	P	0.9
7	☐	1000.000	999.875	2341782.02	1.4783	A	1.5
8	☐			4687.08	0.0031	P	6.7

$$y = 0.0015 * x + 1.8203E-004$$

$$R = 1.0000$$

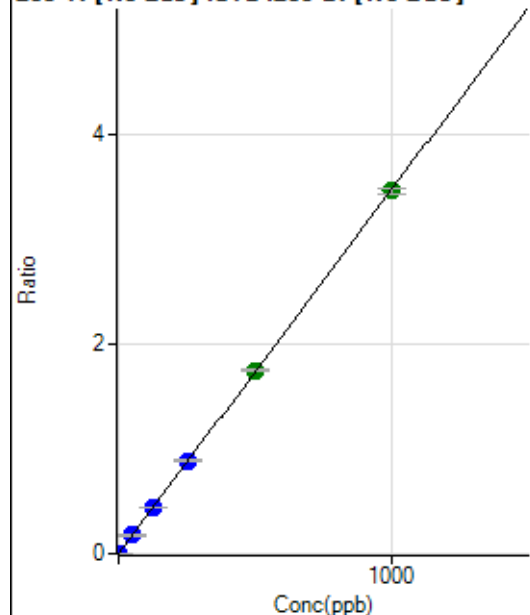
$$DL = 0.05787$$

$$BEC = 0.1231$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	672.26	0.0005	P	0.9
2	☐	1.000	1.012	5776.45	0.0040	P	0.5
3	☐	50.000	50.171	261512.49	0.1743	P	0.8
4	☐	125.000	125.184	692425.92	0.4343	P	0.1
5	☐	250.000	255.331	1395880.79	0.8853	P	1.4
6	☐	500.000	503.564	2775224.69	1.7456	A	0.4
7	☐	1000.000	996.854	5472869.78	3.4550	A	1.6
8	☐			11099.54	0.0074	P	3.2

$$y = 0.0035 * x + 4.5972E-004$$

$$R = 1.0000$$

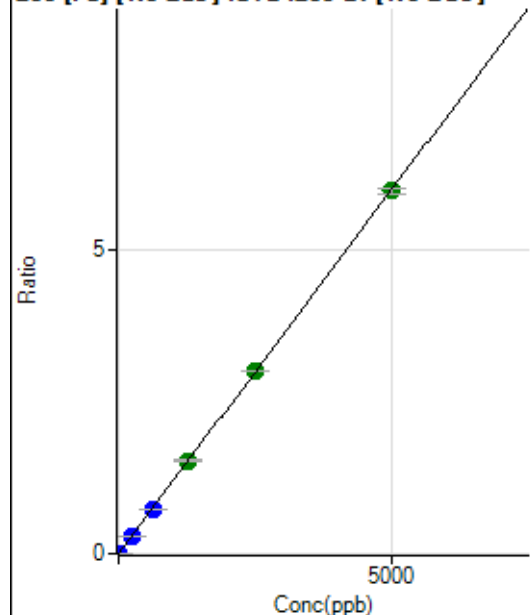
$$DL = 0.003715$$

$$BEC = 0.1327$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	292.60	0.0002	P	19.0
2	☐	1.000	0.983	2009.46	0.0014	P	2.6
3	☐	250.000	247.278	445711.52	0.2971	P	1.4
4	☐	625.000	618.067	1183606.15	0.7423	P	0.8
5	☐	1250.000	1274.764	2413512.93	1.5309	A	2.6
6	☐	2500.000	2517.620	4806588.19	3.0233	A	0.2
7	☐	5000.000	4986.002	9483991.07	5.9872	A	1.9
8	☐			23278.52	0.0156	P	1.9

$$y = 0.0012 * x + 2.0018E-004$$

$$R = 1.0000$$

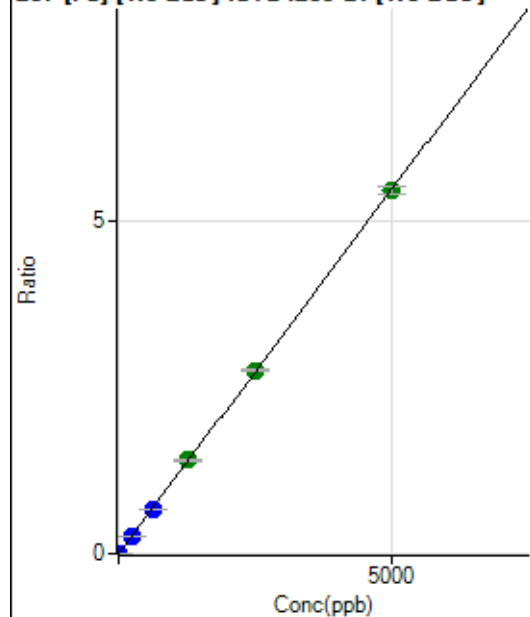
$$DL = 0.09526$$

$$BEC = 0.1667$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	292.60	0.0002	P	12.9
2	☐	1.000	1.010	1898.32	0.0013	P	7.2
3	☐	250.000	245.463	403012.23	0.2687	P	2.2
4	☐	625.000	608.810	1061936.83	0.6661	P	1.1
5	☐	1250.000	1282.623	2211989.30	1.4030	A	2.2
6	☐	2500.000	2516.053	4375209.65	2.7520	A	0.8
7	☐	5000.000	4986.068	8638320.33	5.4535	A	2.0
8	☐			20919.01	0.0140	P	1.3

$$y = 0.0011 * x + 2.0043E-004$$

$$R = 1.0000$$

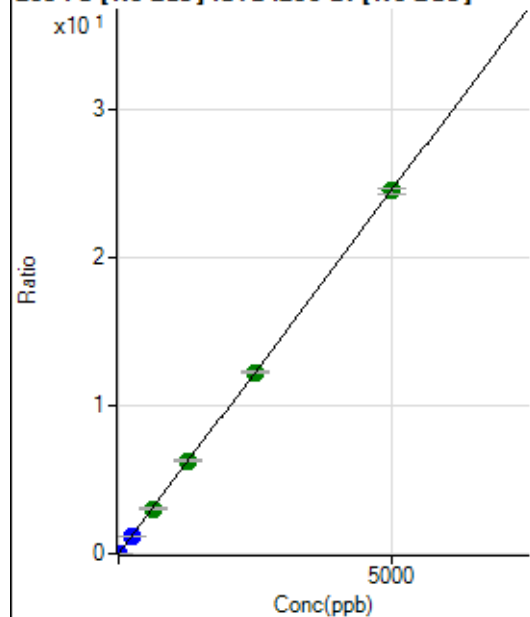
$$DL = 0.07089$$

$$BEC = 0.1833$$

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	1244.50	0.0009	P	8.2
2	☐	1.000	0.994	8332.69	0.0057	P	4.7
3	☐	250.000	246.194	1810777.54	1.2071	P	1.4
4	☐	625.000	619.838	4843419.80	3.0378	A	1.1
5	☐	1250.000	1274.605	9847784.30	6.2459	A	1.7
6	☐	2500.000	2500.242	19477605.24	12.2510	A	0.3
7	☐	5000.000	4994.563	38765518.81	24.4722	A	1.5
8	☐			94747.95	0.0634	P	0.4

$$y = 0.0049 * x + 8.5192E-004$$

$$R = 1.0000$$

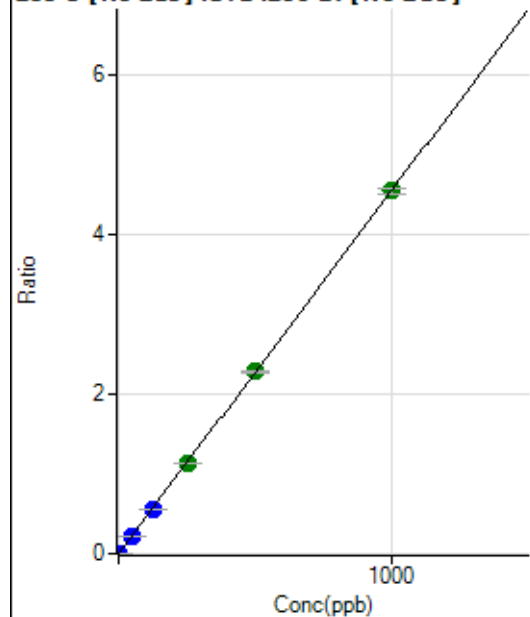
$$DL = 0.04257$$

$$BEC = 0.1739$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	172.23	0.0001	P	18.5
2	☐	1.000	1.016	6902.08	0.0047	P	1.0
3	☐	50.000	47.998	327720.69	0.2185	P	1.8
4	☐	125.000	123.380	895107.65	0.5614	P	0.3
5	☐	250.000	249.211	1787796.29	1.1338	A	1.5
6	☐	500.000	501.305	3625657.72	2.2806	A	1.6
7	☐	1000.000	999.847	7204909.36	4.5486	A	1.9
8	☐			11683.49	0.0078	P	2.9

$$y = 0.0045 * x + 1.1749E-004$$

$$R = 1.0000$$

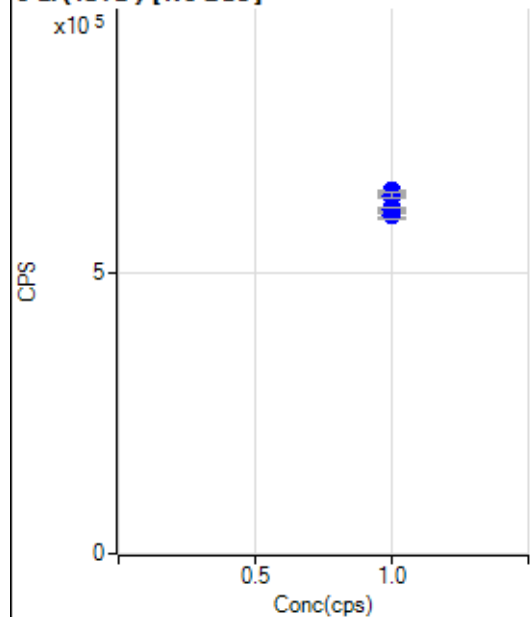
$$DL = 0.0143$$

$$BEC = 0.02583$$

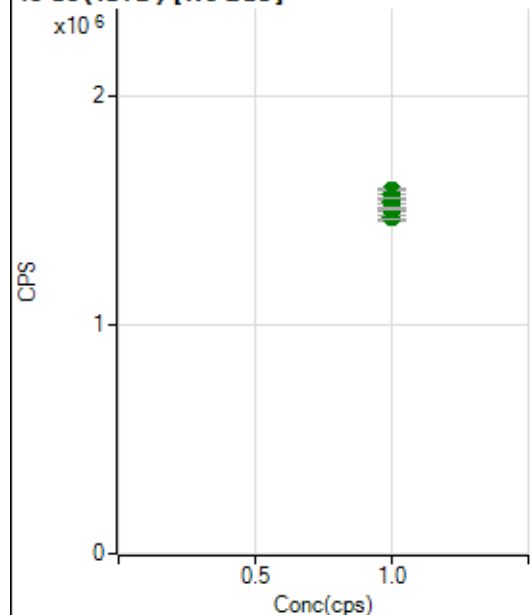
Weight: <None>

Min Conc: 0

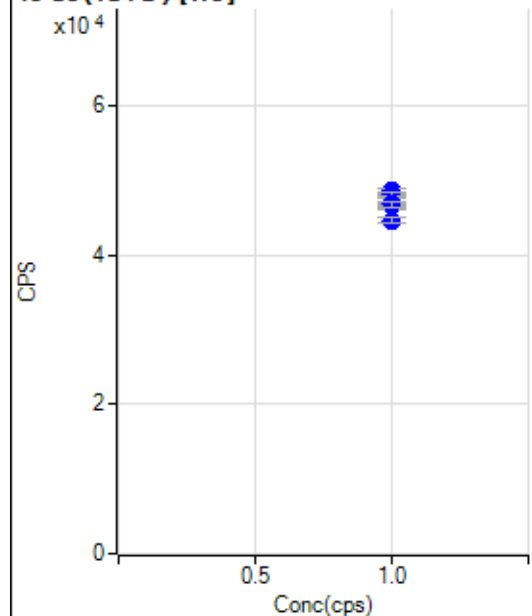
6 Li (ISTD) [No Gas]



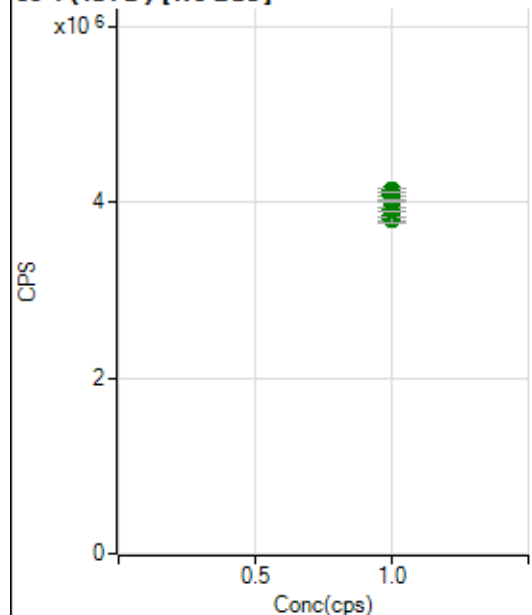
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		604958.35		P	2.3
2	☐	1.000		600681.12		P	1.9
3	☐	1.000		612649.92		P	1.0
4	☐	1.000		645415.58		P	0.5
5	☐	1.000		638382.45		P	1.1
6	☐	1.000		641879.97		P	1.0
7	☐	1.000		637427.63		P	1.4
8	☐	1.000		616390.50		P	0.4

45 Sc (ISTD) [No Gas]

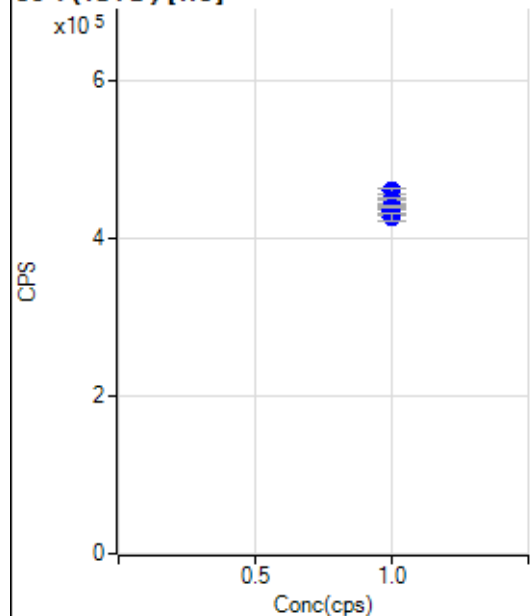
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1479644.47		A	3.5
2	☐	1.000		1467612.17		A	0.7
3	☐	1.000		1501746.78		A	1.2
4	☐	1.000		1582238.08		A	1.5
5	☐	1.000		1567188.09		A	2.1
6	☐	1.000		1547303.73		A	1.0
7	☐	1.000		1537261.98		A	1.4
8	☐	1.000		1506860.93		A	0.3

45 Sc (ISTD) [He]

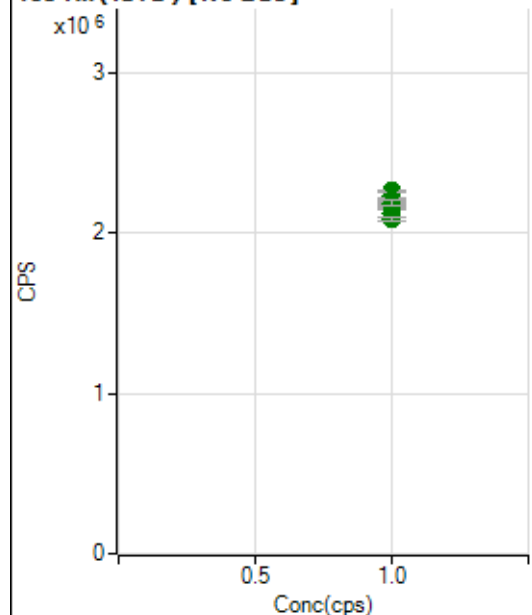
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		46608.64		P	0.4
2	☐	1.000		46770.29		P	0.2
3	☐	1.000		47259.91		P	4.5
4	☐	1.000		48653.14		P	1.6
5	☐	1.000		48264.02		P	0.8
6	☐	1.000		47033.38		P	2.5
7	☐	1.000		46865.01		P	1.4
8	☐	1.000		44718.44		P	1.8

89 Y (ISTD) [No Gas]

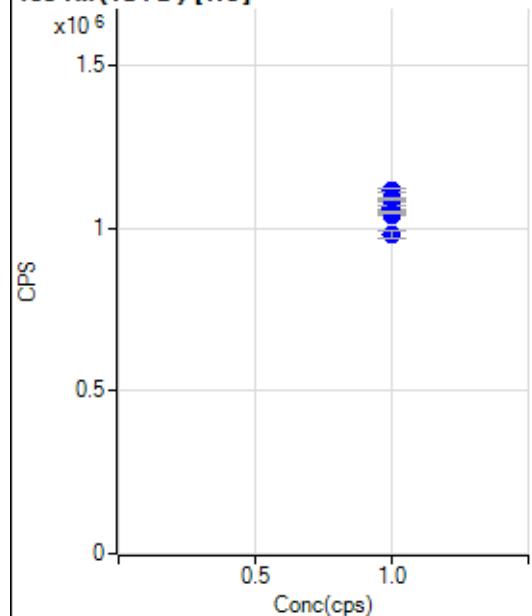
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3841989.70		A	2.5
2	☐	1.000		3802356.92		A	1.7
3	☐	1.000		3916705.60		A	0.6
4	☐	1.000		4128033.38		A	1.0
5	☐	1.000		4062878.76		A	0.2
6	☐	1.000		4087884.49		A	0.8
7	☐	1.000		4068374.63		A	1.8
8	☐	1.000		4009259.00		A	0.6

89 Y (ISTD) [He]

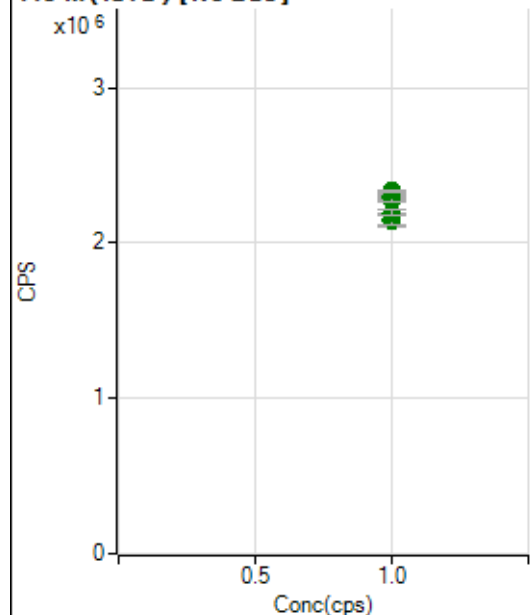
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		429555.78		P	0.5
2	☐	1.000		433712.14		P	0.8
3	☐	1.000		435990.65		P	3.3
4	☐	1.000		459584.07		P	1.4
5	☐	1.000		449306.68		P	0.7
6	☐	1.000		437110.37		P	3.2
7	☐	1.000		439254.60		P	0.6
8	☐	1.000		425606.32		P	2.1

103 Rh (ISTD) [No Gas]

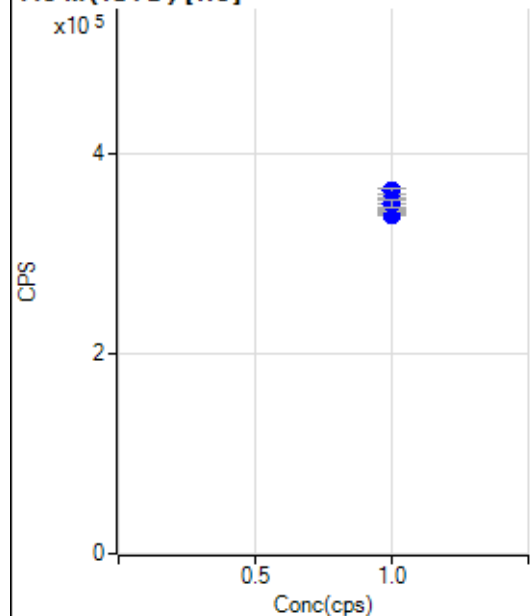
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2124128.13		A	2.7
2	☐	1.000		2119009.95		A	3.6
3	☐	1.000		2182992.60		A	0.6
4	☐	1.000		2264463.25		A	0.3
5	☐	1.000		2230653.87		A	2.1
6	☐	1.000		2207911.96		A	1.3
7	☐	1.000		2189818.13		A	1.3
8	☐	1.000		2086366.21		A	0.9

103 Rh (ISTD) [He]

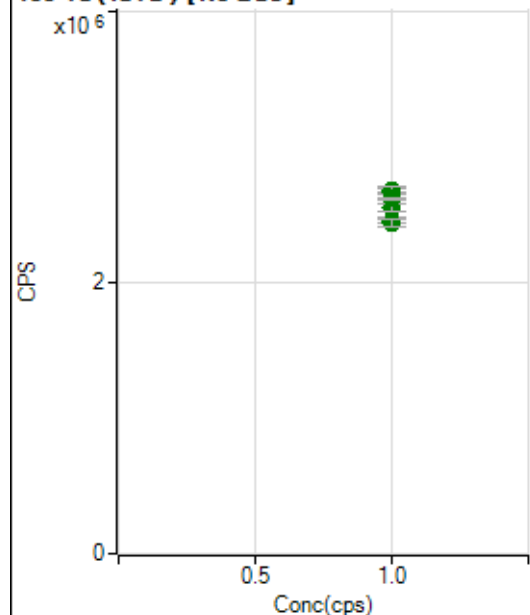
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1042652.93		P	0.6
2	☐	1.000		1055875.22		P	0.9
3	☐	1.000		1064187.16		P	3.2
4	☐	1.000		1115433.13		P	1.2
5	☐	1.000		1091904.07		P	0.4
6	☐	1.000		1056361.31		P	2.5
7	☐	1.000		1049174.00		P	0.5
8	☐	1.000		983485.12		P	2.3

115 In (ISTD) [No Gas]

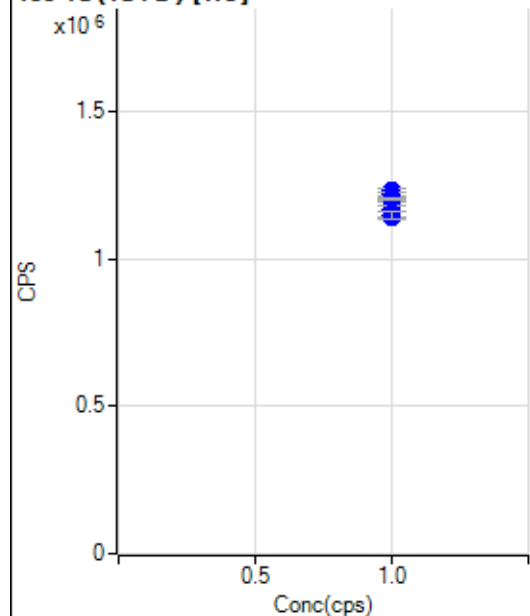
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2143965.85		A	3.1
2	☐	1.000		2150787.49		A	3.5
3	☐	1.000		2196424.48		A	1.3
4	☐	1.000		2296131.34		A	1.1
5	☐	1.000		2300689.10		A	1.6
6	☐	1.000		2283467.62		A	0.5
7	☐	1.000		2288951.68		A	2.0
8	☐	1.000		2336345.23		A	0.2

115 In (ISTD) [He]

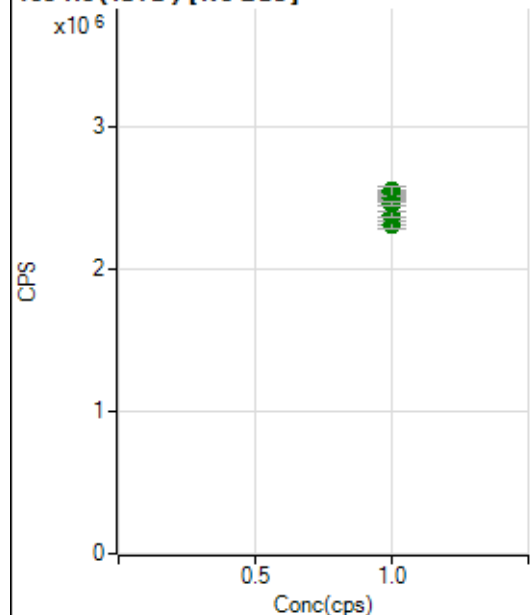
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		338778.37		P	0.3
2	☐	1.000		343137.49		P	1.3
3	☐	1.000		346644.54		P	3.8
4	☐	1.000		362793.35		P	1.4
5	☐	1.000		354657.50		P	0.2
6	☐	1.000		344911.00		P	3.1
7	☐	1.000		343450.06		P	0.5
8	☐	1.000		350297.67		P	2.1

159 Tb (ISTD) [No Gas]

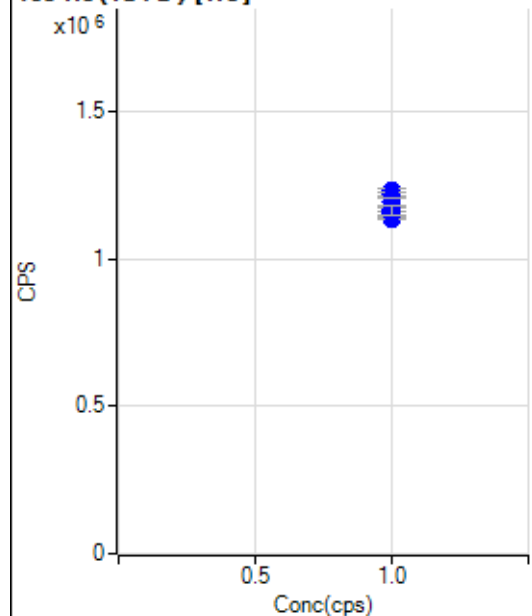
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2455227.62		A	2.0
2	☐	1.000		2432955.90		A	2.2
3	☐	1.000		2549724.67		A	1.8
4	☐	1.000		2665932.22		A	0.1
5	☐	1.000		2669089.35		A	1.5
6	☐	1.000		2669970.78		A	1.2
7	☐	1.000		2673018.22		A	2.2
8	☐	1.000		2614316.21		A	0.5

159 Tb (ISTD) [He]

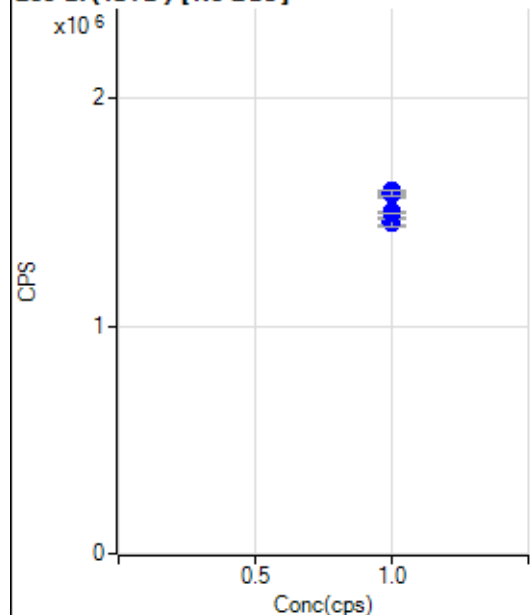
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1139430.07		P	0.5
2	☐	1.000		1147699.51		P	1.6
3	☐	1.000		1166986.16		P	4.1
4	☐	1.000		1229467.98		P	1.0
5	☐	1.000		1217306.53		P	0.9
6	☐	1.000		1197385.87		P	2.6
7	☐	1.000		1203524.53		P	0.3
8	☐	1.000		1149575.37		P	2.2

165 Ho (ISTD) [No Gas]

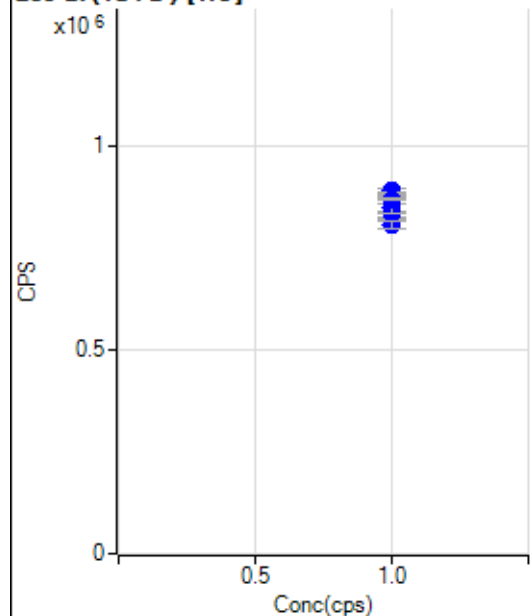
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2338329.72		A	2.6
2	☐	1.000		2316881.93		A	2.2
3	☐	1.000		2380075.79		A	1.7
4	☐	1.000		2519888.32		A	1.4
5	☐	1.000		2501692.15		A	1.4
6	☐	1.000		2543785.45		A	0.9
7	☐	1.000		2551076.36		A	2.6
8	☐	1.000		2465409.11		A	1.2

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1137517.29		P	0.4
2	☐	1.000		1153808.29		P	1.2
3	☐	1.000		1166459.80		P	2.8
4	☐	1.000		1230630.31		P	0.9
5	☐	1.000		1221031.48		P	0.9
6	☐	1.000		1192961.85		P	2.9
7	☐	1.000		1206582.28		P	0.2
8	☐	1.000		1163624.70		P	2.6

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1462397.46		P	2.1
2	☐	1.000		1456311.28		P	2.2
3	☐	1.000		1500192.44		P	0.7
4	☐	1.000		1594410.48		P	0.8
5	☐	1.000		1576944.04		P	1.5
6	☐	1.000		1589855.05		P	0.7
7	☐	1.000		1584345.03		P	1.8
8	☐	1.000		1495444.27		P	0.2

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		821933.82		P	0.7
2	☐	1.000		835022.10		P	0.7
3	☐	1.000		845583.78		P	3.1
4	☐	1.000		888043.74		P	1.3
5	☐	1.000		882912.12		P	0.7
6	☐	1.000		864670.39		P	2.1
7	☐	1.000		867004.30		P	0.5
8	☐	1.000		804133.95		P	2.2

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8050820 MS.b
Acq. Date-Time 2020-05-08 10:54:38
Report Comment ---
Instrument Name G8403A SG19224459

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		3838	38382.05			1.198	5.000
24		49670	496700.86			0.567	5.000
25		6831	68310.51			0.901	5.000
26		8047	80465.89			0.633	5.000
59		28787	287874.51			0.578	5.000
113		4640	46404.36			0.141	5.000
115		14473	144733.32			1.567	5.000
206		5154	51544.49			0.585	5.000
207		4292	42919.20			0.657	5.000
208		10538	105375.31			1.009	5.000
220		1	5.20			41.133	

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

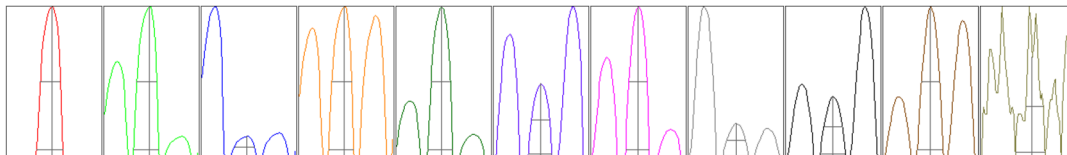
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	3810	3820	3832	3810	3919
24	49934	49857	49361	49368	49830
25	6787	6834	6764	6848	6923
26	7995	8020	8064	8028	8126
59	28800	28786	28604	28697	29050
113	4635	4632	4647	4643	4646
115	14742	14674	14414	14214	14323
206	5116	5142	5143	5188	5183
207	4273	4293	4272	4282	4340
208	10435	10533	10438	10599	10683

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	6350.77	8.95	8.90 - 9.10	
24	84051.86	23.95	23.90 - 24.10	
25	11398.32	24.95	24.90 - 25.10	
26	13276.24	25.95	25.90 - 26.10	
59	49772.05	58.95	58.90 - 59.10	
113	8634.45	113.00	112.90 - 113.10	
115	26774.20	115.00	114.90 - 115.10	
206	9340.76	206.05	205.90 - 206.10	
207	7813.39	207.00	206.90 - 207.10	
208	19413.99	208.00	207.90 - 208.10	
220	0.70	220.15	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.64	0.826	0.900	
24	0.64	0.789	0.900	
25	0.64	0.818	0.900	
26	0.64	0.789	0.900	
59	0.61	0.785	0.900	
113	0.57	0.736	0.900	
115	0.56	0.737	0.900	
206	0.58	0.799	0.900	
207	0.58	0.805	0.900	
208	0.57	0.815	0.900	
220	0.58	0.936		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode HMI Nebulizer Gas 0.51 L/min Dilution Gas 0.46 L/min

US EPA Tune Check Report

RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	10.5 V	Deflect	14.8 V
Extract 2	-235.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-110 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	160 V		

QP Parameters

Mass Gain	122	Axis Gain	0.9995	QP Bias	-4.0 V
Mass Offset	123	Axis Offset	-0.05		

Hardware Settings

Torch

Torch H	0.3 mm	Torch V	0.0 mm
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EM

Discriminator	4.0 mV	Analog HV	2169 V	Pulse HV	1203 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		6909	69093.19			1.777	
89		13648	136478.32			2.047	
205		14049	140486.82			1.647	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	6793	7027	6927	7028	6772
89	13356	13866	13703	13954	13360
205	14022	14187	14115	14255	13665

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	HMI	Nebulizer Gas	0.51 L/min	Dilution Gas	0.46 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	10.5 V	Deflect	4.0 V
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US EPA Tune Check Report

Extract 2	-235.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-110 V	Cell Exit	-70 V		
Cell Parameters					
Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	4.5 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		
QP Parameters					
Mass Gain	122	Axis Gain	0.9995	QP Bias	-13.0 V
Mass Offset	123	Axis Offset	-0.05		
Hardware Settings					
Torch					
Torch H	0.3 mm	Torch V	0.0 mm		
EM					
Discriminator	4.0 mV	Analog HV	2169 V	Pulse HV	1203 V