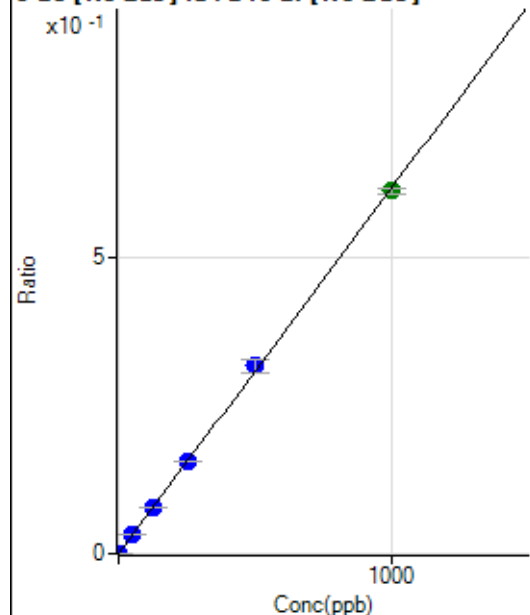


Calibration for 007CALS.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P8031724MS.b\
 Analysis File: P8031724MS.batch.bin
 DA Date-Time: 2024-03-17 17:58:33
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2024-03-17 15:27:37
2	006CALS.d	S02	2024-03-17 15:34:28
3	007CALS.d	S03	2024-03-17 15:37:52
4	008CALS.d	S04	2024-03-17 15:41:13
5	009CALS.d	S05	2024-03-17 15:44:21
6	010CALS.d	S06	2024-03-17 15:47:27
7	011CALS.d	S07	2024-03-17 15:50:29
8	012CALS.d	S08	2024-03-17 15:53:33

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	30.00	0.0000	P	12.0
2	☐	1.000	0.983	1307.40	0.0006	P	2.9
3	☐	50.000	50.277	63080.39	0.0311	P	1.2
4	☐	125.000	125.283	152454.13	0.0775	P	1.0
5	☐	250.000	251.823	299642.52	0.1557	P	0.9
6	☐	500.000	513.388	598088.94	0.3174	P	7.1
7	☐	1000.000	992.801	1196304.50	0.6138	A	1.9
8	☐			205.81	0.0001	P	15.0

$$y = 6.1824\text{E-}004 * x + 1.4979\text{E-}005$$

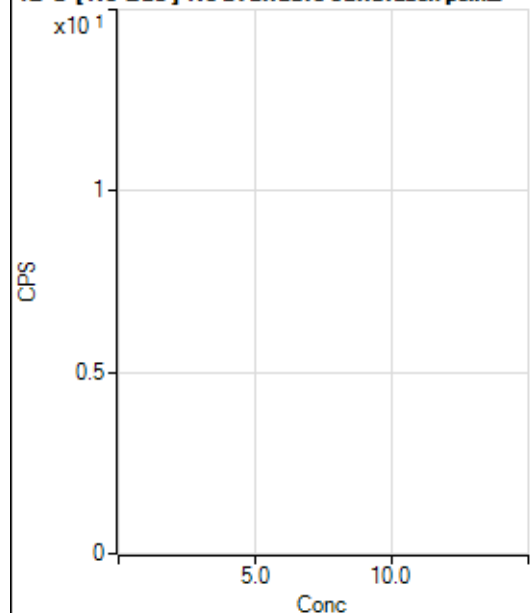
$$R = 0.9999$$

$$DL = 0.0087$$

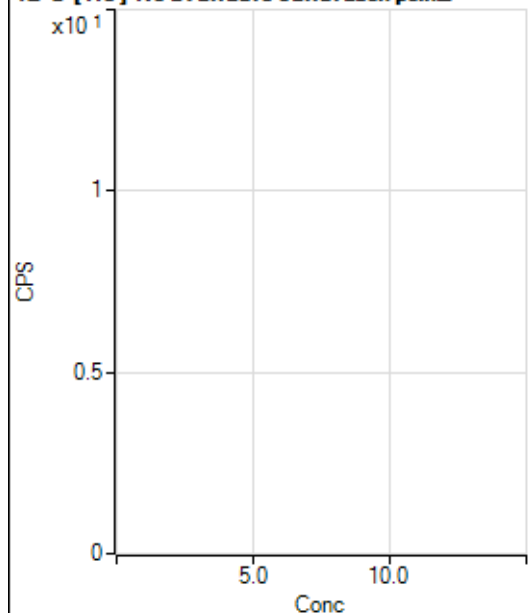
$$BEC = 0.02423$$

Weight: <None>

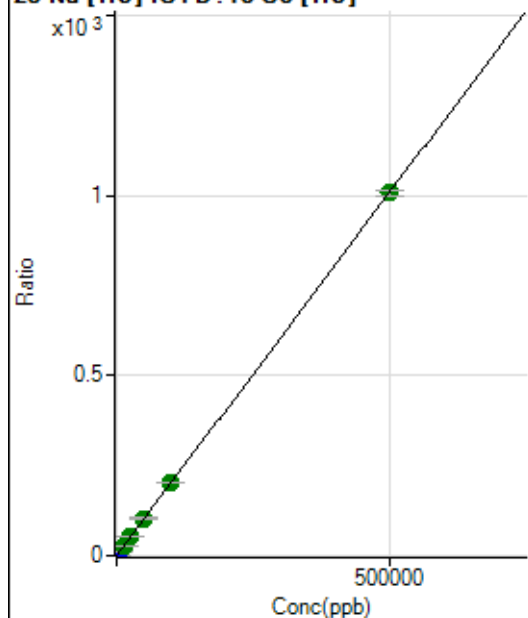
Min Conc: 0

12 C [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			1453077.20		A	1.0
2	☐			1403875.83		A	0.2
3	☐			1387557.95		A	0.7
4	☐			1369816.71		A	1.2
5	☐			1381465.24		A	0.1
6	☐			1480181.89		A	3.9
7	☐			1634751.43		A	3.5
8	☐			1585902.44		A	5.8

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			18597.44		P	2.1
2	☐			18036.72		P	1.6
3	☐			17559.47		P	1.0
4	☐			17572.83		P	1.3
5	☐			18328.21		P	0.7
6	☐			20045.98		P	0.5
7	☐			22832.26		P	2.1
8	☐			24147.64		P	1.1

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	5643.35	0.0635	P	1.5
2	☐	500.000	465.534	90443.40	1.0037	P	1.0
3	☐	5000.000	5768.775	929002.27	11.7141	P	19.8
4	☐	12500.000	13000.160	2258762.39	26.3185	A	1.6
5	☐	25000.000	26211.340	4543093.68	52.9996	A	0.8
6	☐	50000.000	51530.258	8973527.30	104.1334	A	0.7
7	☐	100000.00	101308.63	18089576.67	204.6652	A	1.0
8	☐	500000.00	499504.52	93797003.05	1,008.856	A	1.4

$$y = 0.0020 * x + 0.0635$$

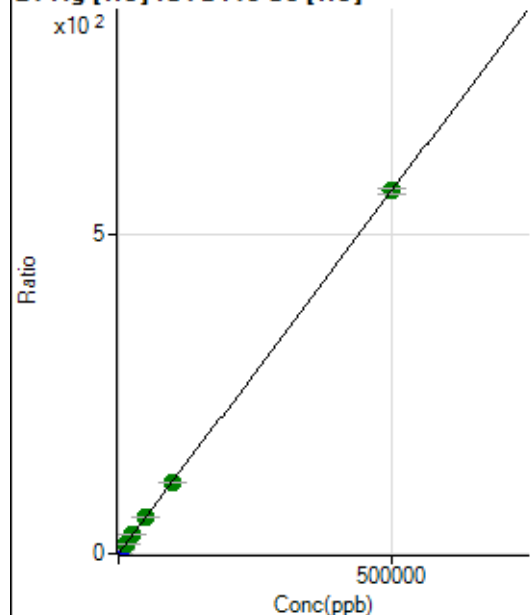
$$R = 1.0000$$

$$DL = 1.374$$

$$BEC = 31.45$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	97.78	0.0011	P	33.6
2	☐	500.000	471.425	48409.97	0.5372	P	0.8
3	☐	5000.000	5624.885	507591.60	6.3980	P	19.5
4	☐	12500.000	12929.539	1262049.37	14.7053	A	0.7
5	☐	25000.000	25638.668	2499432.34	29.1588	A	0.8
6	☐	50000.000	50638.258	4962555.79	57.5896	A	0.8
7	☐	100000.00	98707.875	9921980.75	112.2570	A	0.9
8	☐	500000.00	500145.70	52882165.88	568.7936	A	1.5

$$y = 0.0011 * x + 0.0011$$

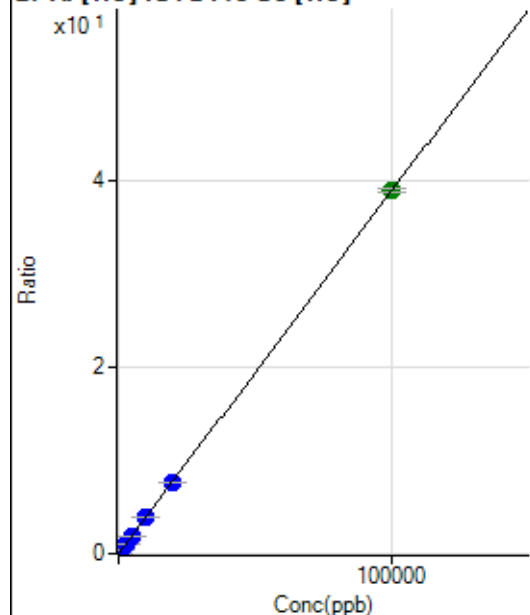
$$R = 1.0000$$

$$DL = 0.9723$$

$$BEC = 0.9651$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	46.66	0.0005	P	11.2
2	☐	20.000	18.615	698.91	0.0078	P	8.1
3	☐	1000.000	1138.908	35096.84	0.4431	P	20.8
4	☐	2500.000	2510.963	83780.40	0.9763	P	1.1
5	☐	5000.000	5002.042	166658.56	1.9443	P	0.4
6	☐	10000.000	9986.190	334442.07	3.8811	P	0.5
7	☐	20000.000	19680.855	676019.23	7.6484	P	0.6
8	☐	100000.00	100063.44	3615331.68	38.8848	A	0.9

$$y = 3.8860E-004 * x + 5.2466E-004$$

$$R = 1.0000$$

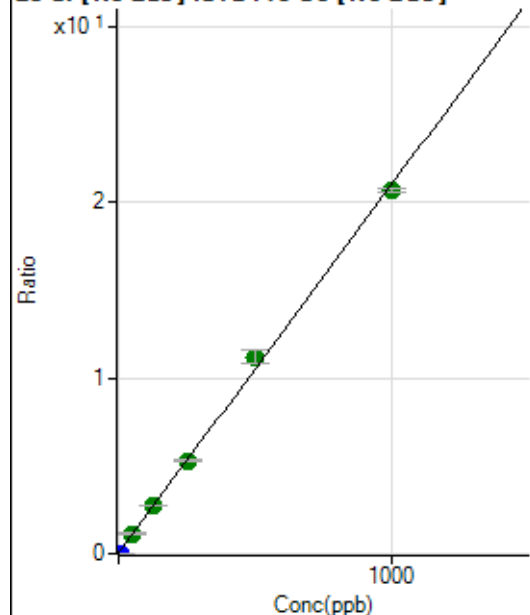
$$DL = 0.452$$

$$BEC = 1.35$$

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	128834.87	0.0447	P	1.0
2	☐	10.000	0.233	144644.86	0.0496	P	0.9
3	☐	50.000	52.505	3256347.87	1.1460	A	1.0
4	☐	125.000	128.600	7710031.41	2.7420	A	3.2
5	☐	250.000	249.286	15066156.03	5.2733	A	1.8
6	☐	500.000	533.059	30443856.21	11.2253	A	7.7
7	☐	1000.000	983.172	59338008.56	20.6661	A	1.2
8	☐			585027.91	0.2046	P	5.6

$$y = 0.0210 * x + 0.0447$$

$$R = 0.9991$$

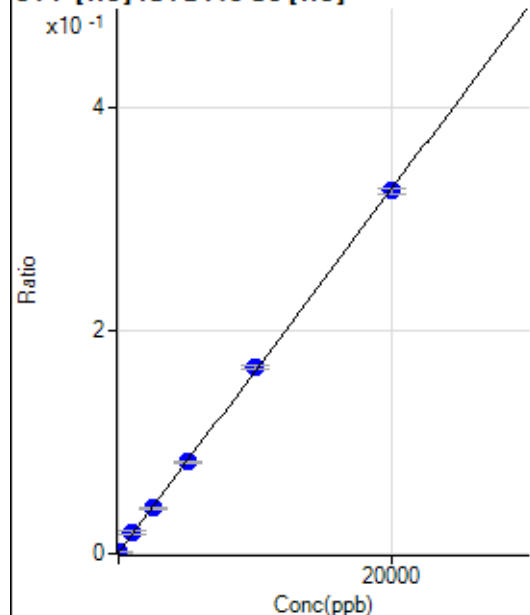
$$DL = 0.06273$$

$$BEC = 2.131$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-16.439	44.44	0.0005	P	41.9
2	☐	0.000	16.439	93.33	0.0010	P	22.2
3	☐	1000.000	1127.700	1521.21	0.0191	P	18.6
4	☐	2500.000	2446.487	3483.79	0.0406	P	1.5
5	☐	5000.000	4993.079	7032.88	0.0821	P	1.6
6	☐	10000.000	10204.090	14381.66	0.1669	P	1.4
7	☐	20000.000	19899.990	28701.78	0.3247	P	1.7
8	☐			50.00	0.0005	P	29.5

$$y = 1.6280E-005 * x + 7.6895E-004$$

$$R = 0.9999$$

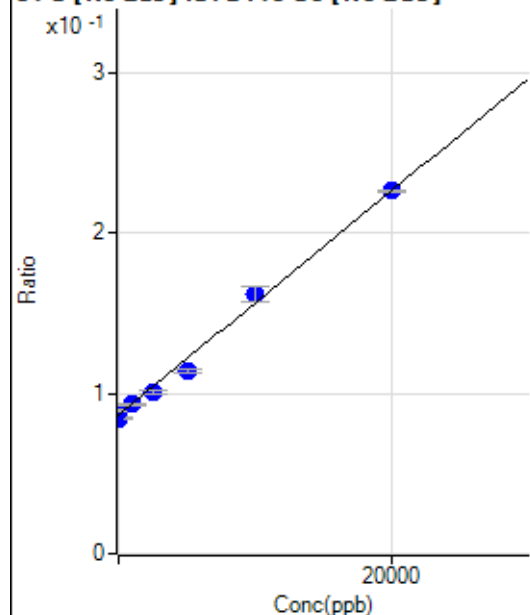
$$DL = 40.53$$

$$BEC = 47.23$$

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	-340.817	243293.46	0.0844	P	1.3
2	☐	0.000	340.817	260135.68	0.0892	P	1.8
3	☐	1000.000	962.102	265795.13	0.0935	P	1.6
4	☐	2500.000	1966.740	282785.12	0.1006	P	2.9
5	☐	5000.000	3933.382	326645.00	0.1143	P	1.8
6	☐	10000.000	10729.376	439431.46	0.1619	P	5.9
7	☐	20000.000	19970.519	650686.06	0.2266	P	0.6
8	☐			209605.19	0.0734	P	2.0

$$y = 7.0012\text{E-}006 * x + 0.0868$$

$$R = 0.9970$$

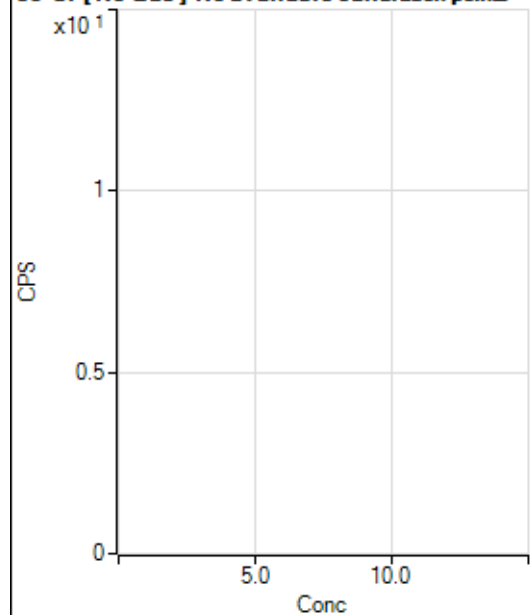
$$DL = 567.2$$

$$BEC = 1.24\text{E}+04$$

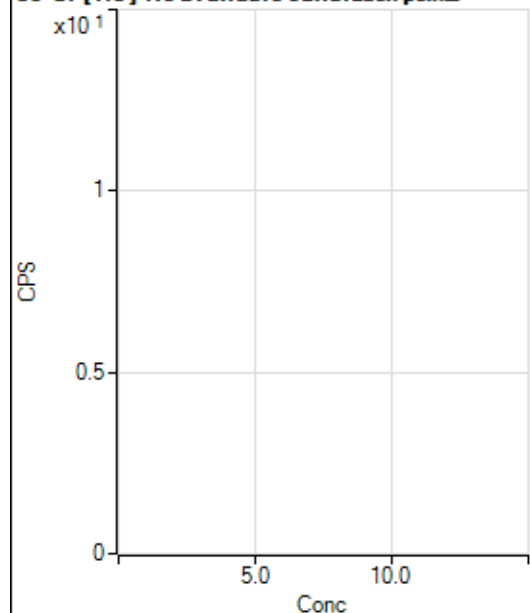
Weight: <None>

Min Conc: 0

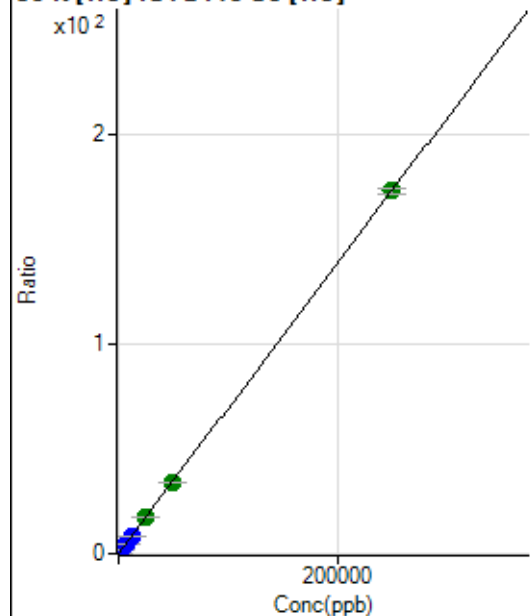
35 Cl [No Gas] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			140191.99		P	1.6
2	☐			69459.86		P	1.2
3	☐			69036.72		P	1.6
4	☐			67764.07		P	1.0
5	☐			67063.21		P	0.8
6	☐			70874.42		P	0.3
7	☐			83365.69		P	0.8
8	☐			72144.06		P	2.5

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			928.93		P	1.5
2	☐			418.90		P	8.7
3	☐			448.90		P	14.0
4	☐			455.57		P	3.0
5	☐			446.68		P	5.4
6	☐			430.01		P	8.1
7	☐			555.57		P	7.9
8	☐			511.13		P	8.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	4451.84	0.0501	P	4.1
2	☐	500.000	450.352	32614.61	0.3619	P	1.0
3	☐	2500.000	2703.940	152483.37	1.9223	P	19.6
4	☐	6250.000	6002.882	361000.31	4.2065	P	0.9
5	☐	12500.000	12002.302	716639.86	8.3604	P	0.4
6	☐	25000.000	24634.542	1474119.23	17.1069	A	1.2
7	☐	50000.000	48988.720	3002465.76	33.9697	A	0.5
8	☐	250000.00	250267.92	16115101.43	173.3345	A	1.4

$$y = 6.9240\text{E-}004 * x + 0.0501$$

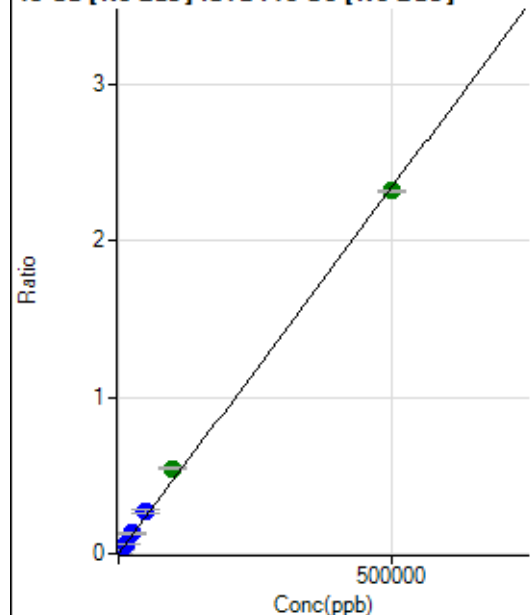
$$R = 1.0000$$

$$DL = 8.859$$

$$BEC = 72.36$$

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	117.78	0.0000	P	11.3
2	☐	500.000	481.142	6678.27	0.0023	P	3.9
3	☐	5000.000	5793.258	77076.26	0.0271	P	0.6
4	☐	12500.000	14136.624	185955.13	0.0661	P	2.4
5	☐	25000.000	27642.664	369309.82	0.1293	P	0.5
6	☐	50000.000	58389.108	740443.31	0.2730	P	7.4
7	☐	100000.00	116343.96	1561633.73	0.5439	A	1.8
8	☐	500000.00	495711.33	6618144.69	2.3173	A	0.7

$$y = 4.6745\text{E-}006 * x + 4.0881\text{E-}005$$

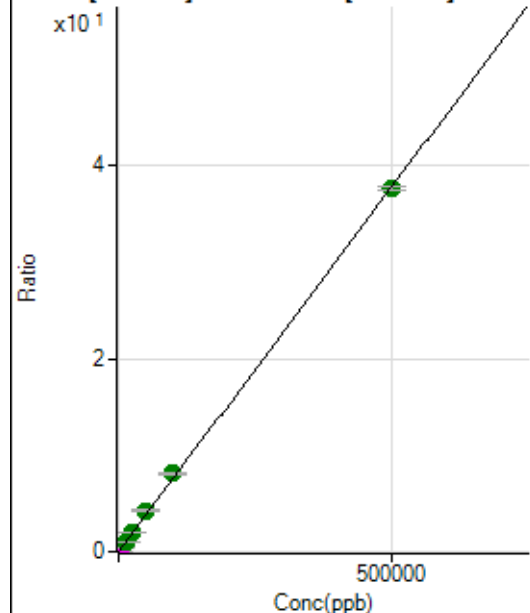
$$R = 0.9993$$

$$DL = 2.972$$

$$BEC = 8.745$$

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	8329.22	0.0029	P	0.6
2	☐	500.000	460.168	109785.09	0.0376	P	1.6
3	☐	5000.000	5464.067	1180758.60	0.4155	M	2.3
4	☐	12500.000	13709.065	2919003.60	1.0381	A	3.2
5	☐	25000.000	26747.010	5779085.19	2.0226	A	1.0
6	☐	50000.000	55781.641	11439973.58	4.2151	A	6.0
7	☐	100000.00	107543.36	23325306.32	8.1238	A	2.3
8	☐	500000.00	497790.98	107351145.0	37.5927	A	1.1

$$y = 7.5513\text{E-}005 * x + 0.0029$$

$$R = 0.9998$$

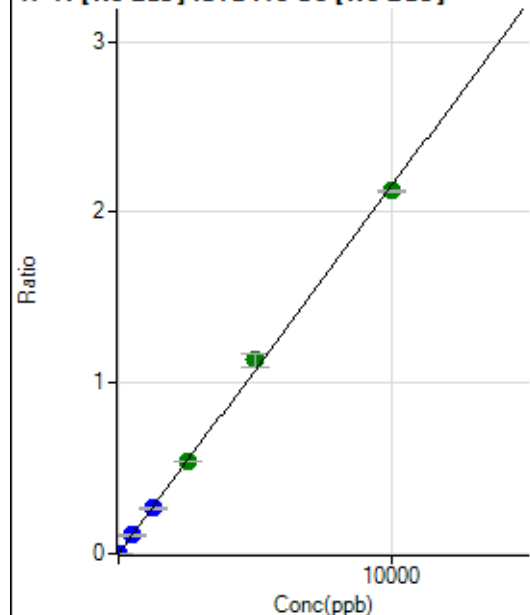
$$DL = 0.6744$$

$$BEC = 38.26$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	51.11	0.0000	P	7.7
2	☐	5.000	4.663	2980.34	0.0010	P	5.3
3	☐	500.000	503.408	308027.70	0.1084	P	2.6
4	☐	1250.000	1245.498	754252.43	0.2682	P	2.7
5	☐	2500.000	2498.284	1537163.66	0.5380	A	0.9
6	☐	5000.000	5260.296	3073925.82	1.1328	A	6.2
7	☐	10000.000	9870.673	6103142.62	2.1255	A	0.5
8	☐			1514.54	0.0005	P	7.8

$$y = 2.1534\text{E-}004 * x + 1.7733\text{E-}005$$

$$R = 0.9995$$

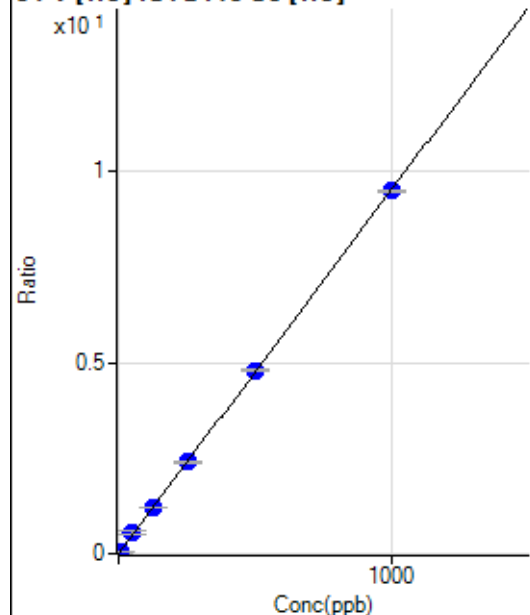
$$DL = 0.01891$$

$$BEC = 0.08235$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	6.67	0.0001	P	50.2
2	☐	5.000	4.796	4117.30	0.0457	P	2.0
3	☐	50.000	56.012	42274.45	0.5327	P	19.2
4	☐	125.000	125.562	102472.25	1.1941	P	1.0
5	☐	250.000	251.757	205212.35	2.3941	P	0.8
6	☐	500.000	504.392	413320.51	4.7966	P	1.0
7	☐	1000.000	996.995	837986.36	9.4809	P	0.6
8	☐			405.57	0.0044	P	5.9

$$y = 0.0095 * x + 7.4974\text{E-}005$$

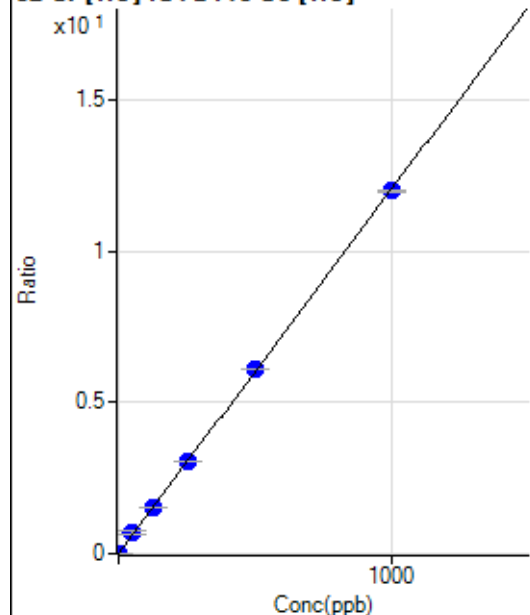
$$R = 1.0000$$

$$DL = 0.01187$$

$$BEC = 0.007884$$

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	507.79	0.0057	P	11.4
2	☐	2.000	1.943	2622.49	0.0291	P	1.5
3	☐	50.000	57.064	54860.30	0.6927	P	20.9
4	☐	125.000	127.294	131991.48	1.5381	P	1.3
5	☐	250.000	253.772	262342.39	3.0607	P	1.0
6	☐	500.000	505.766	525158.19	6.0942	P	0.1
7	☐	1000.000	995.534	1059768.54	11.9901	P	0.6
8	☐			35105.23	0.3776	P	1.8

$$y = 0.0120 * x + 0.0057$$

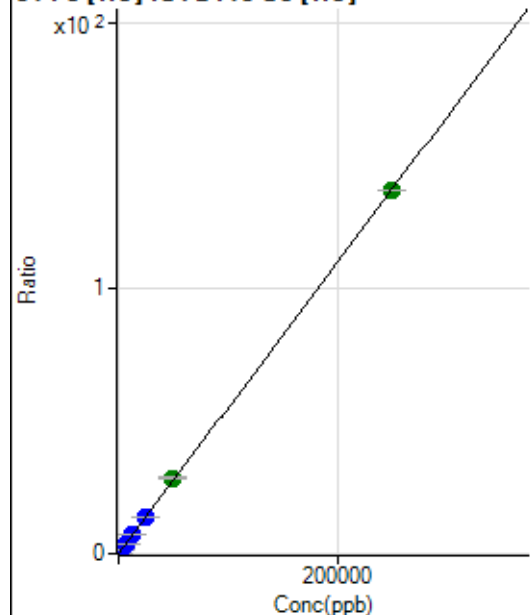
$$R = 1.0000$$

$$DL = 0.1627$$

$$BEC = 0.475$$

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	201.11	0.0023	P	23.3
2	☐	50.000	51.552	2749.18	0.0305	P	2.0
3	☐	2500.000	2886.862	125691.43	1.5841	P	19.4
4	☐	6250.000	6490.826	305421.69	3.5589	P	0.2
5	☐	12500.000	12800.141	601378.17	7.0161	P	0.8
6	☐	25000.000	25504.188	1204428.06	13.9773	P	0.9
7	☐	50000.000	52202.594	2528485.71	28.6067	A	0.9
8	☐	250000.00	249484.16	12710213.56	136.7070	A	0.1

$$y = 5.4795E-004 * x + 0.0023$$

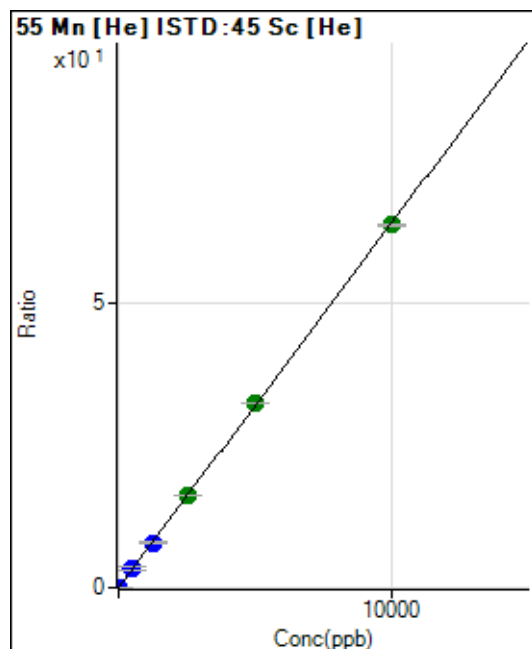
$$R = 1.0000$$

$$DL = 2.883$$

$$BEC = 4.127$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	30.00	0.0003	P	20.1
2	☐	1.000	0.999	605.57	0.0067	P	0.8
3	☐	500.000	547.089	277111.69	3.4942	P	19.8
4	☐	1250.000	1237.364	678152.01	7.9024	P	0.9
5	☐	2500.000	2535.270	1387843.92	16.1911	A	0.6
6	☐	5000.000	5076.015	2793452.29	32.4168	A	0.1
7	☐	10000.000	9952.400	5617717.48	63.5584	A	0.8
8	☐			5355.49	0.0576	P	0.9

$$y = 0.0064 * x + 3.3799E-004$$

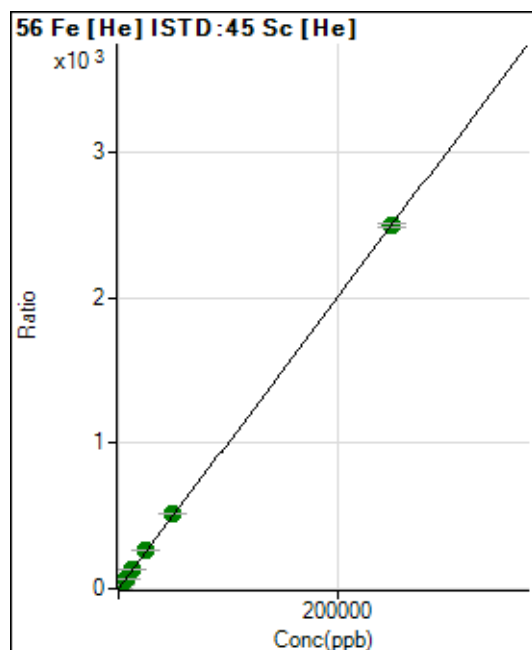
$$R = 0.9999$$

$$DL = 0.03188$$

$$BEC = 0.05293$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1622.33	0.0183	P	3.6
2	☐	50.000	50.029	46750.78	0.5188	P	1.2
3	☐	2500.000	3033.785	2408194.13	30.3708	A	19.9
4	☐	6250.000	6630.276	5694509.15	66.3532	A	0.3
5	☐	12500.000	13151.263	11279564.00	131.5947	A	1.0
6	☐	25000.000	25988.511	22407522.16	260.0295	A	0.2
7	☐	50000.000	51344.498	45405909.88	513.7124	A	0.8
8	☐	250000.00	249584.84	232157563.2	2.497.077	A	0.9

$$y = 0.0100 * x + 0.0183$$

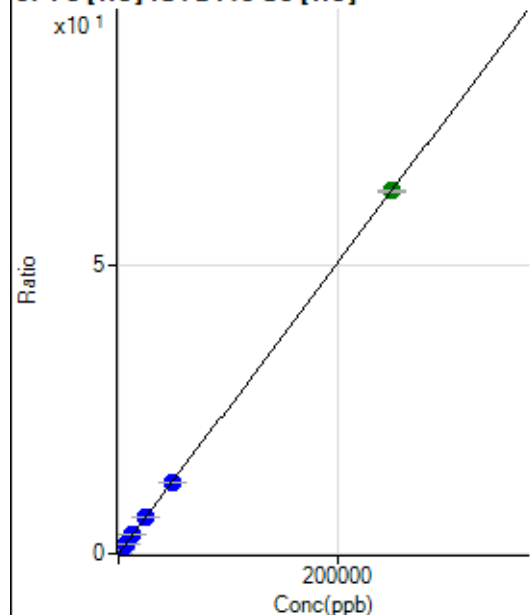
$$R = 1.0000$$

$$DL = 0.1993$$

$$BEC = 1.825$$

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	76.66	0.0009	P	8.0
2	☐	50.000	48.352	1174.51	0.0130	P	2.7
3	☐	2500.000	2824.863	56448.95	0.7118	P	19.8
4	☐	6250.000	6401.175	138338.36	1.6119	P	0.6
5	☐	12500.000	12784.153	275859.40	3.2184	P	0.9
6	☐	25000.000	25119.566	544851.81	6.3230	P	1.1
7	☐	50000.000	49304.172	1096865.46	12.4098	P	0.6
8	☐	250000.00	250105.97	5852560.54	62.9479	A	0.3

$$y = 2.5168\text{E-}004 * x + 8.6295\text{E-}004$$

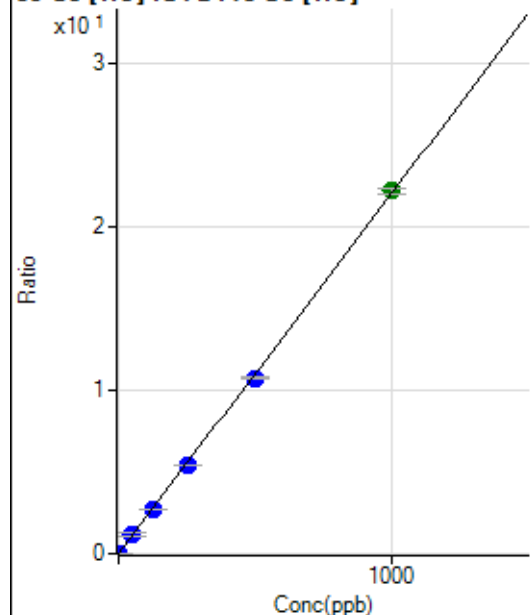
$$R = 1.0000$$

$$DL = 0.8232$$

$$BEC = 3.429$$

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	41.11	0.0005	P	19.2
2	☐	1.000	0.908	1844.59	0.0205	P	3.9
3	☐	50.000	55.083	96301.72	1.2135	P	19.3
4	☐	125.000	123.335	233135.06	2.7166	P	0.9
5	☐	250.000	244.805	462139.79	5.3917	P	1.2
6	☐	500.000	487.164	924532.35	10.7291	P	1.0
7	☐	1000.000	1007.671	1961500.94	22.1921	A	1.8
8	☐			5265.47	0.0566	P	2.3

$$y = 0.0220 * x + 4.6292\text{E-}004$$

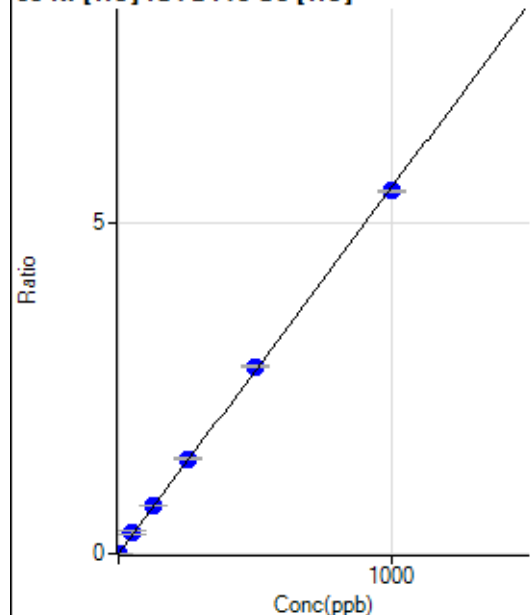
$$R = 0.9998$$

$$DL = 0.01209$$

$$BEC = 0.02102$$

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	24.45	0.0003	P	68.9
2	☐	1.000	1.048	546.68	0.0061	P	6.4
3	☐	50.000	57.781	25345.94	0.3194	P	19.2
4	☐	125.000	130.520	61884.85	0.7211	P	0.9
5	☐	250.000	258.879	122571.27	1.4300	P	1.2
6	☐	500.000	510.664	243053.59	2.8206	P	0.8
7	☐	1000.000	991.369	483961.41	5.4755	P	0.2
8	☐			10448.35	0.1124	P	3.4

$$y = 0.0055 * x + 2.7634E-004$$

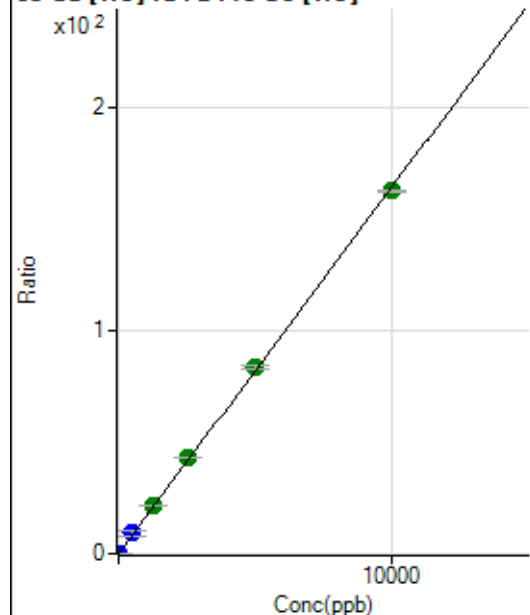
$$R = 0.9999$$

$$DL = 0.1034$$

$$BEC = 0.05004$$

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	484.46	0.0055	P	4.7
2	☐	2.000	1.872	3261.52	0.0362	P	4.9
3	☐	500.000	553.032	720384.24	9.0831	P	19.7
4	☐	1250.000	1329.955	1873853.44	21.8359	A	1.3
5	☐	2500.000	2635.839	3708914.21	43.2712	A	1.0
6	☐	5000.000	5083.988	7191268.50	83.4562	A	1.8
7	☐	10000.000	9911.400	14380272.28	162.6954	A	0.8
8	☐			5458.88	0.0587	P	5.3

$$y = 0.0164 * x + 0.0055$$

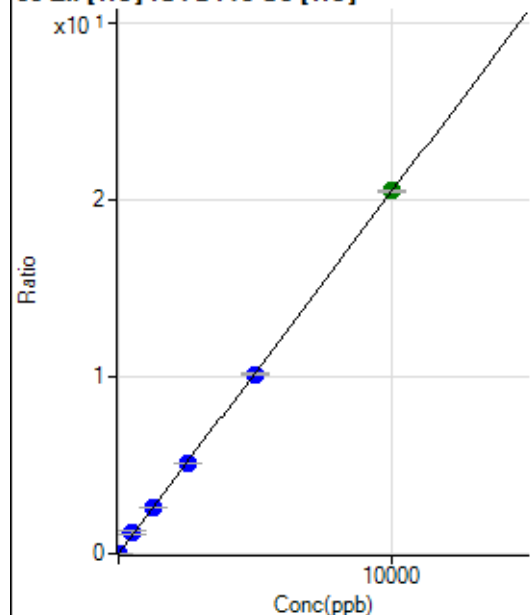
$$R = 0.9998$$

$$DL = 0.04638$$

$$BEC = 0.3321$$

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	176.67	0.0020	P	19.0
2	☐	2.000	4.844	1072.28	0.0119	P	3.4
3	☐	500.000	562.219	91394.49	1.1521	P	19.5
4	☐	1250.000	1260.402	221432.40	2.5803	P	1.1
5	☐	2500.000	2485.201	435942.43	5.0858	P	0.3
6	☐	5000.000	4945.319	871895.90	10.1183	P	1.1
7	☐	10000.000	10026.628	1813061.54	20.5128	A	0.7
8	☐			3496.02	0.0376	P	0.5

$$y = 0.0020 * x + 0.0020$$

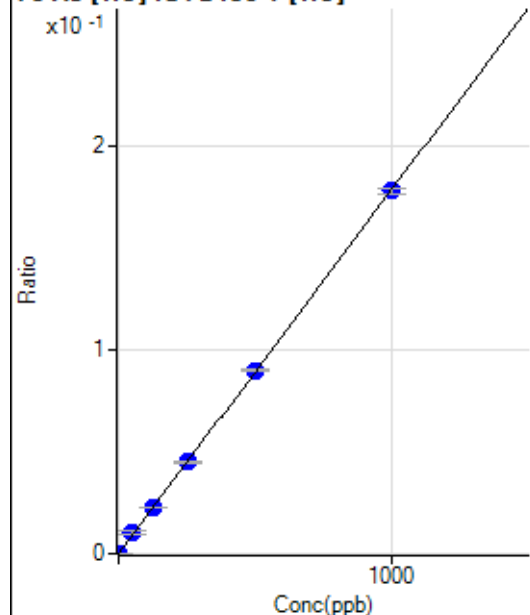
$$R = 1.0000$$

$$DL = 0.556$$

$$BEC = 0.9733$$

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	0.00	0.0000	P	
2	☐	1.000	0.756	71.11	0.0001	P	23.6
3	☐	50.000	56.398	4687.49	0.0100	P	18.3
4	☐	125.000	125.401	11360.22	0.0223	P	1.8
5	☐	250.000	251.428	22531.41	0.0448	P	1.8
6	☐	500.000	503.890	45443.04	0.0897	P	1.1
7	☐	1000.000	997.328	91433.24	0.1776	P	1.4
8	☐			62.22	0.0001	P	23.8

$$y = 1.7809E-004 * x + 0.0000E+000$$

$$R = 1.0000$$

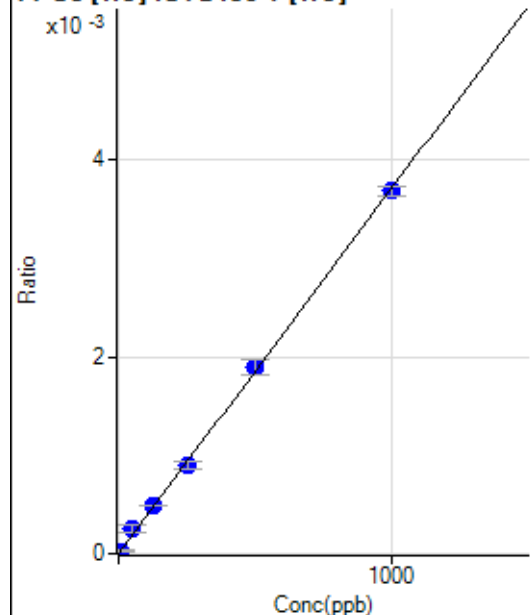
$$DL = 0$$

$$BEC = 0$$

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	0.00	0.0000	P	
2	☐	5.000	7.385	14.44	0.0000	P	53.6
3	☐	50.000	69.343	117.78	0.0003	P	34.4
4	☐	125.000	131.436	247.78	0.0005	P	3.1
5	☐	250.000	244.216	455.57	0.0009	P	8.1
6	☐	500.000	512.039	961.16	0.0019	P	8.0
7	☐	1000.000	993.643	1895.71	0.0037	P	2.5
8	☐			10.00	0.0000	P	33.3

$$y = 3.7061\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9997$$

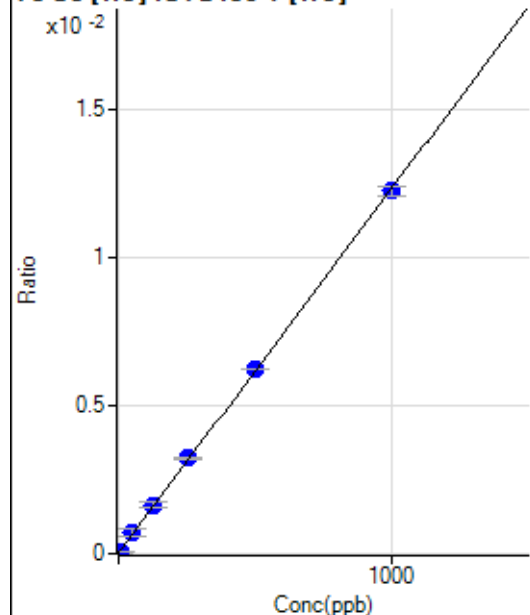
$$DL = 0$$

$$BEC = 0$$

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	12.22	0.0000	P	68.0
2	☐	5.000	4.264	40.00	0.0001	P	29.4
3	☐	50.000	57.439	334.45	0.0007	P	33.9
4	☐	125.000	132.098	836.70	0.0016	P	9.3
5	☐	250.000	260.363	1620.11	0.0032	P	3.1
6	☐	500.000	503.935	3144.83	0.0062	P	0.5
7	☐	1000.000	994.186	6295.92	0.0122	P	2.6
8	☐			41.11	0.0001	P	18.9

$$y = 1.2277\text{E-}005 * x + 2.3289\text{E-}005$$

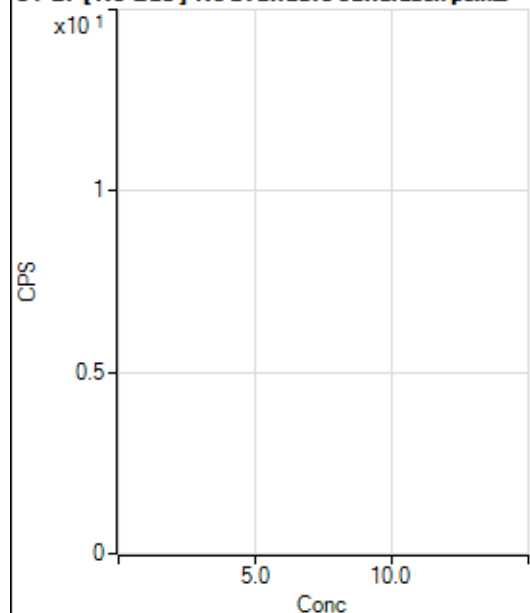
$$R = 0.9999$$

$$DL = 3.871$$

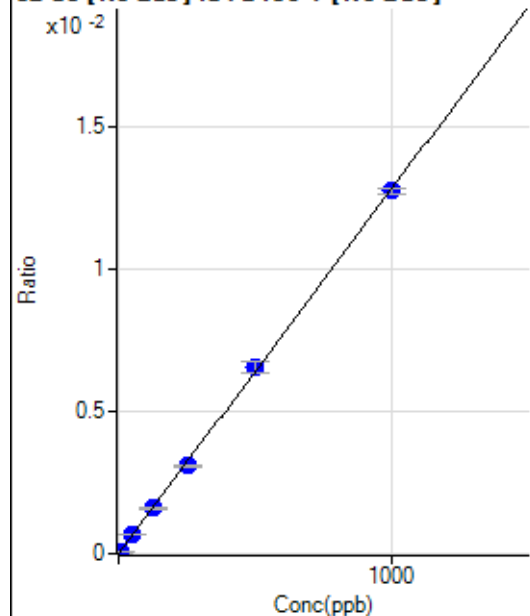
$$BEC = 1.897$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1812.36		P	7.5
2	☐			1859.03		P	7.3
3	☐			1716.79		P	3.4
4	☐			1701.23		P	7.6
5	☐			1725.68		P	0.3
6	☐			1692.34		P	2.7
7	☐			1799.02		P	6.4
8	☐			3230.40		P	10.7

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	-45.56	0.0000	P	-3.0
2	☐	5.000	5.899	387.79	0.0001	P	5.2
3	☐	50.000	51.879	3710.57	0.0007	P	2.1
4	☐	125.000	126.232	9035.29	0.0016	P	3.8
5	☐	250.000	242.503	17595.73	0.0031	P	2.1
6	☐	500.000	512.715	35696.81	0.0066	P	5.9
7	☐	1000.000	995.264	72120.60	0.0128	P	1.7
8	☐			378.90	0.0001	P	7.2

$$y = 1.2834E-005 * x - 8.0446E-006$$

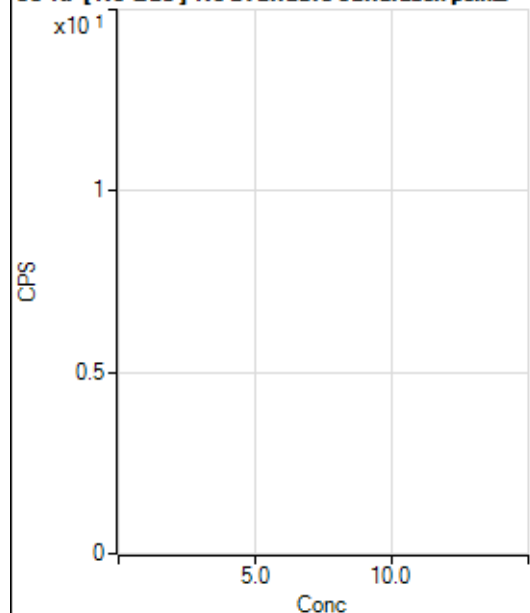
$$R = 0.9998$$

$$DL = 0.05625$$

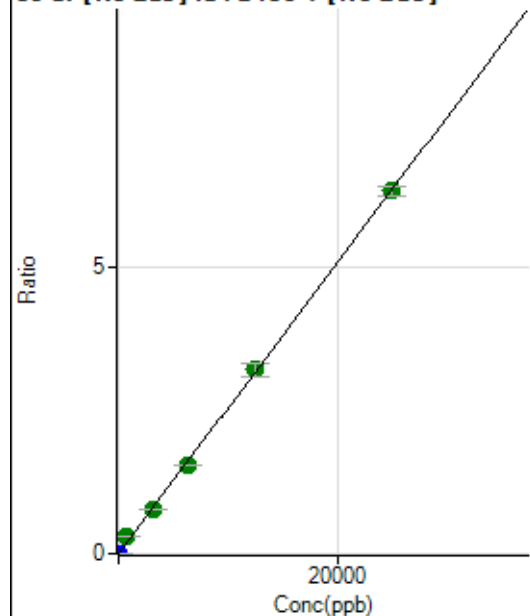
$$BEC = -0.6268$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			155.56		P	8.7
2	☐			130.00		P	11.8
3	☐			134.45		P	23.6
4	☐			131.11		P	20.4
5	☐			117.78		P	14.2
6	☐			121.11		P	10.4
7	☐			143.34		P	16.3
8	☐			153.33		P	16.4

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	234.45	0.0000	P	14.2
2	☐	1.000	0.930	1589.00	0.0003	P	4.2
3	☐	625.000	1243.675	1778296.05	0.3153	A	1.9
4	☐	3125.000	3055.760	4341897.12	0.7746	A	2.8
5	☐	6250.000	6052.149	8695297.86	1.5340	A	0.5
6	☐	12500.000	12645.609	17400837.10	3.2053	A	7.0
7	☐	25000.000	24969.846	35756738.91	6.3290	A	2.6
8	☐			4657.49	0.0008	P	13.1

$$y = 2.5346E-004 * x + 4.1464E-005$$

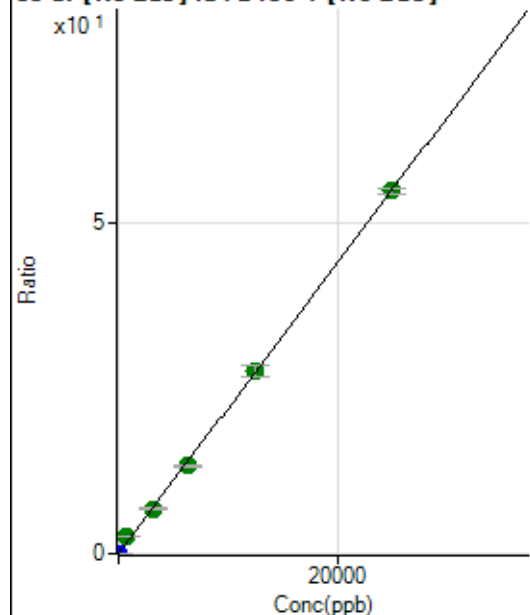
$$R = 0.9996$$

$$DL = 0.06958$$

$$BEC = 0.1636$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	354.45	0.0001	P	14.7
2	☐	1.000	0.907	11741.68	0.0020	P	1.0
3	☐	625.000	1227.637	15169167.97	2.6892	A	0.6
4	☐	3125.000	3074.104	37743419.44	6.7339	A	3.4
5	☐	6250.000	6038.180	74975288.88	13.2267	A	2.3
6	☐	12500.000	12603.447	149915985.5	27.6080	A	6.5
7	☐	25000.000	24992.527	309306217.6	54.7464	A	1.5
8	☐			39856.13	0.0071	P	12.3

$$y = 0.0022 * x + 6.2570E-005$$

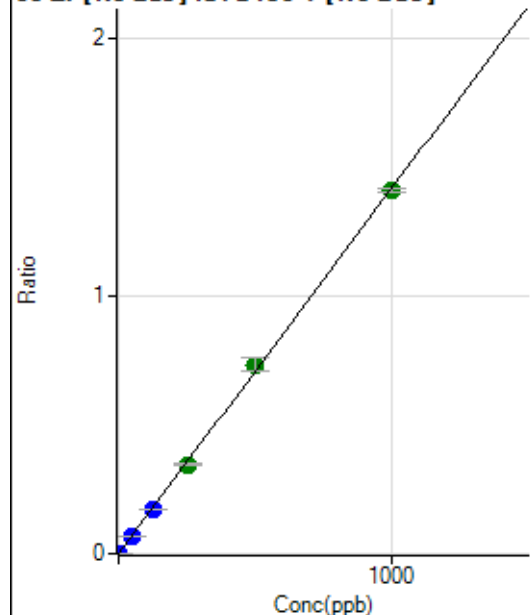
$$R = 0.9996$$

$$DL = 0.0126$$

$$BEC = 0.02856$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	243.34	0.0000	P	6.2
2	☐	1.000	0.861	7230.84	0.0013	P	2.2
3	☐	50.000	48.214	385169.16	0.0683	P	0.1
4	☐	125.000	120.019	952483.05	0.1699	P	2.5
5	☐	250.000	244.790	1964091.25	0.3465	A	1.1
6	☐	500.000	516.483	3968408.10	0.7310	A	7.2
7	☐	1000.000	993.773	7946974.12	1.4066	A	1.2
8	☐			3229.29	0.0006	P	5.2

$$y = 0.0014 * x + 4.3004E-005$$

$$R = 0.9998$$

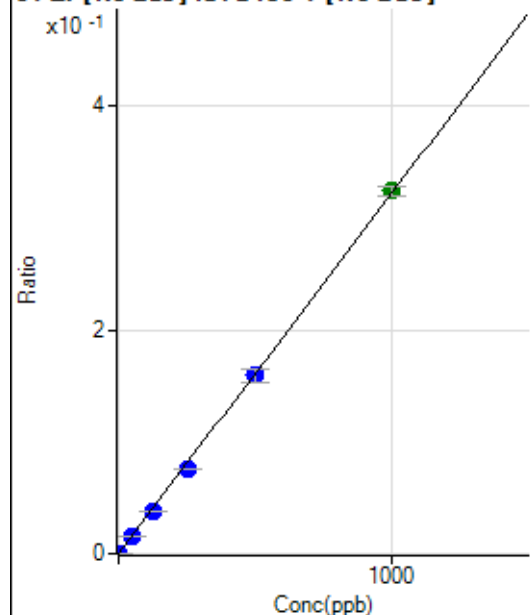
$$DL = 0.005684$$

$$BEC = 0.03038$$

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	54.45	0.0000	P	31.2
2	☐	1.000	0.895	1705.68	0.0003	P	1.3
3	☐	50.000	48.025	87236.13	0.0155	P	0.9
4	☐	125.000	118.012	212963.39	0.0380	P	2.6
5	☐	250.000	234.645	428092.37	0.0755	P	0.7
6	☐	500.000	494.331	863533.94	0.1591	P	7.5
7	☐	1000.000	1007.646	1832168.34	0.3243	A	2.9
8	☐			776.70	0.0001	P	5.6

$$y = 3.2183\text{E-}004 * x + 9.6305\text{E-}006$$

$$R = 0.9998$$

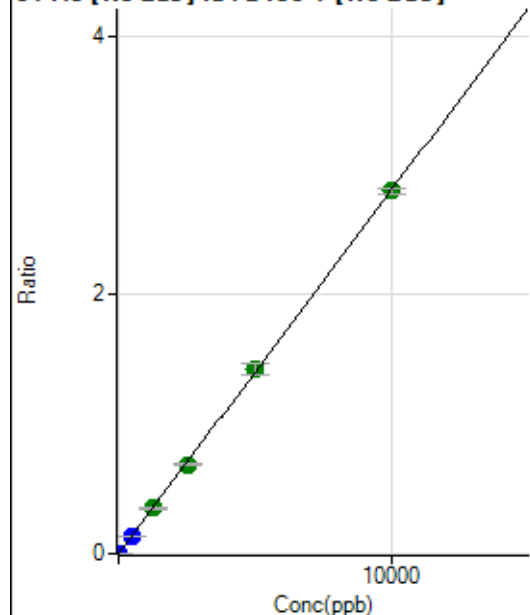
$$DL = 0.02799$$

$$BEC = 0.02992$$

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	91.11	0.0000	P	12.5
2	☐	5.000	5.330	8663.88	0.0015	P	4.2
3	☐	500.000	485.654	769009.28	0.1363	P	0.5
4	☐	1250.000	1250.612	1967443.27	0.3510	A	3.8
5	☐	2500.000	2455.715	3907044.56	0.6893	A	2.0
6	☐	5000.000	5067.439	7723361.13	1.4223	A	6.6
7	☐	10000.000	9977.992	15823059.90	2.8006	A	1.6
8	☐			8374.81	0.0015	P	5.6

$$y = 2.8068\text{E-}004 * x + 1.6110\text{E-}005$$

$$R = 1.0000$$

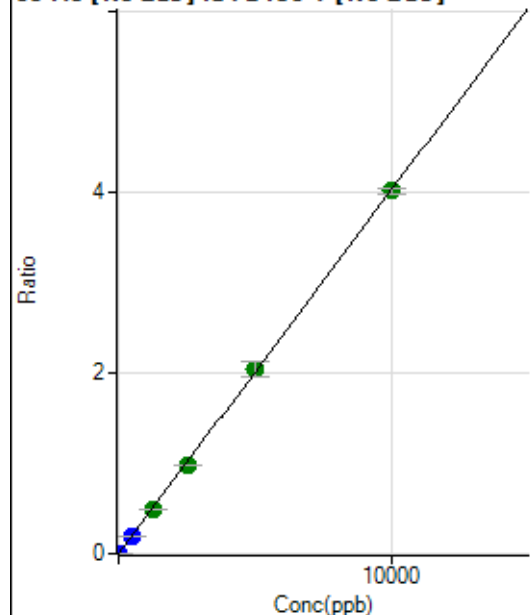
$$DL = 0.02147$$

$$BEC = 0.0574$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	16.67	0.0000	P	73.4
2	☐	5.000	4.502	10393.96	0.0018	P	3.1
3	☐	500.000	483.276	1096745.04	0.1944	P	0.6
4	☐	1250.000	1228.625	2771488.26	0.4943	A	1.2
5	☐	2500.000	2447.434	5580977.42	0.9846	A	0.4
6	☐	5000.000	5085.931	11102491.78	2.0461	A	8.2
7	☐	10000.000	9973.684	22670218.00	4.0125	A	1.3
8	☐			11976.36	0.0021	P	2.6

$$y = 4.0231\text{E-}004 * x + 2.9602\text{E-}006$$

$$R = 0.9999$$

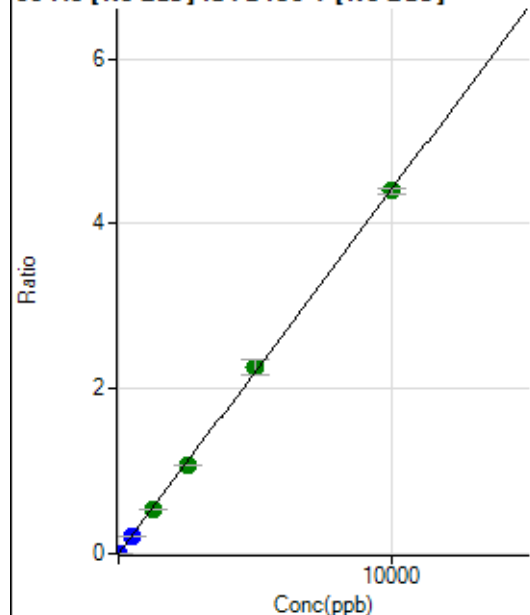
$$DL = 0.01621$$

$$BEC = 0.007358$$

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	44.44	0.0000	P	4.3
2	☐	5.000	4.491	11399.21	0.0020	P	2.7
3	☐	500.000	480.636	1196436.54	0.2121	P	0.5
4	☐	1250.000	1224.209	3028536.20	0.5402	A	2.2
5	☐	2500.000	2426.178	6068779.01	1.0706	A	1.5
6	☐	5000.000	5118.297	12256180.79	2.2586	A	8.0
7	☐	10000.000	9963.499	24841416.85	4.3967	A	1.3
8	☐			12929.43	0.0023	P	2.0

$$y = 4.4128\text{E-}004 * x + 7.8504\text{E-}006$$

$$R = 0.9999$$

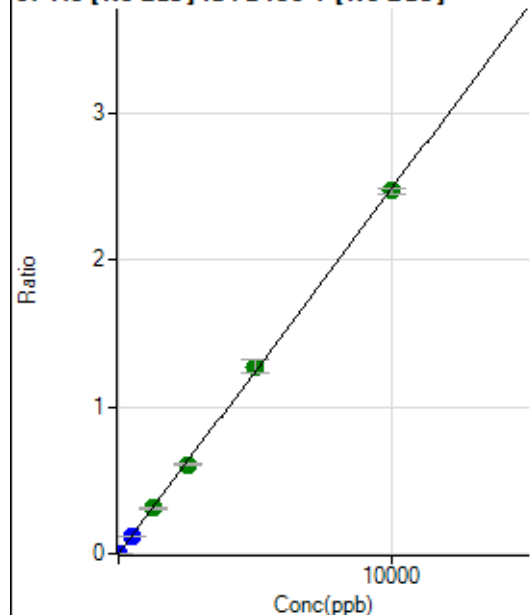
$$DL = 0.002299$$

$$BEC = 0.01779$$

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	18.89	0.0000	P	36.7
2	☐	5.000	4.499	6419.34	0.0011	P	3.5
3	☐	500.000	485.781	680307.51	0.1206	P	0.2
4	☐	1250.000	1242.498	1729161.21	0.3085	A	2.7
5	☐	2500.000	2445.072	3440822.03	0.6070	A	1.6
6	☐	5000.000	5136.659	6920843.72	1.2752	A	7.7
7	☐	10000.000	9947.051	13952119.65	2.4695	A	1.4
8	☐			7404.26	0.0013	P	0.9

$$y = 2.4826E-004 * x + 3.3377E-006$$

$$R = 0.9998$$

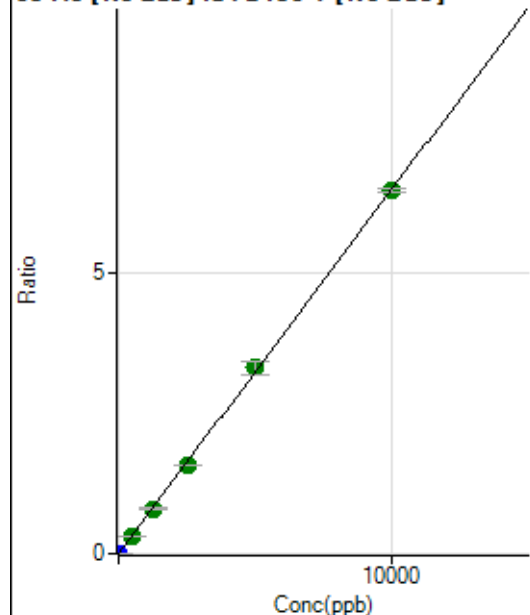
$$DL = 0.01479$$

$$BEC = 0.01344$$

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	41.11	0.0000	P	24.8
2	☐	5.000	4.471	16700.15	0.0029	P	2.0
3	☐	500.000	496.148	1820218.32	0.3227	A	1.2
4	☐	1250.000	1230.251	4485913.99	0.8001	A	1.9
5	☐	2500.000	2418.731	8916358.69	1.5730	A	0.9
6	☐	5000.000	5109.541	18038584.59	3.3230	A	7.3
7	☐	10000.000	9968.208	36627481.40	6.4829	A	1.1
8	☐			18817.31	0.0034	P	3.9

$$y = 6.5035E-004 * x + 7.2470E-006$$

$$R = 0.9999$$

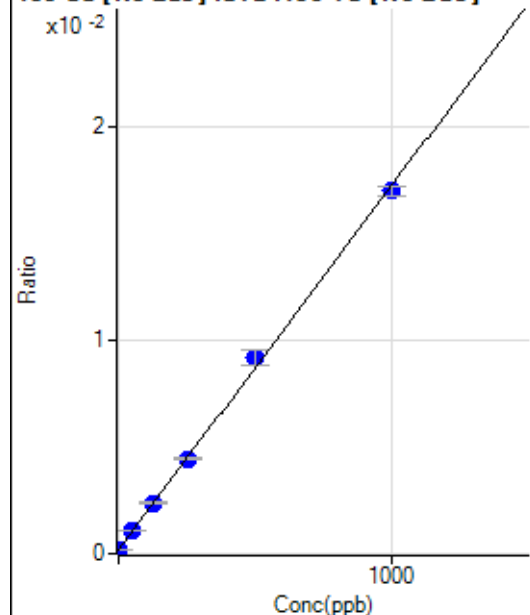
$$DL = 0.008292$$

$$BEC = 0.01114$$

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	1295.63	0.0002	P	10.1
2	☐	1.000	1.686	1537.88	0.0002	P	2.2
3	☐	50.000	52.708	7627.72	0.0011	P	1.4
4	☐	125.000	128.836	16448.78	0.0024	P	5.6
5	☐	250.000	250.466	31446.95	0.0045	P	1.6
6	☐	500.000	526.898	62512.95	0.0092	P	7.3
7	☐	1000.000	985.819	123009.27	0.0170	P	2.6
8	☐			1255.63	0.0002	P	9.0

$$y = 1.7060\text{E-}005 * x + 1.8756\text{E-}004$$

$$R = 0.9995$$

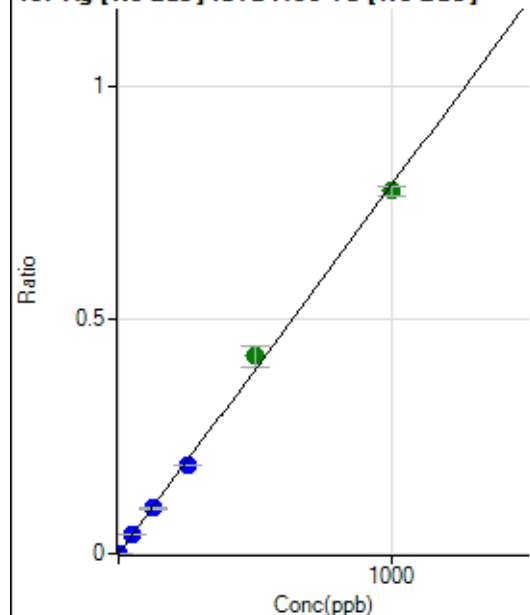
$$DL = 3.336$$

$$BEC = 10.99$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	61.11	0.0000	P	26.5
2	☐	1.000	0.913	5171.02	0.0007	P	6.6
3	☐	50.000	50.069	276901.85	0.0395	P	0.4
4	☐	125.000	124.079	674419.17	0.0978	P	2.5
5	☐	250.000	240.921	1338237.11	0.1898	P	0.6
6	☐	500.000	535.365	2869530.13	0.4218	A	10.1
7	☐	1000.000	984.699	5611736.10	0.7758	A	2.6
8	☐			1135.62	0.0002	P	4.9

$$y = 7.8784\text{E-}004 * x + 8.8383\text{E-}006$$

$$R = 0.9990$$

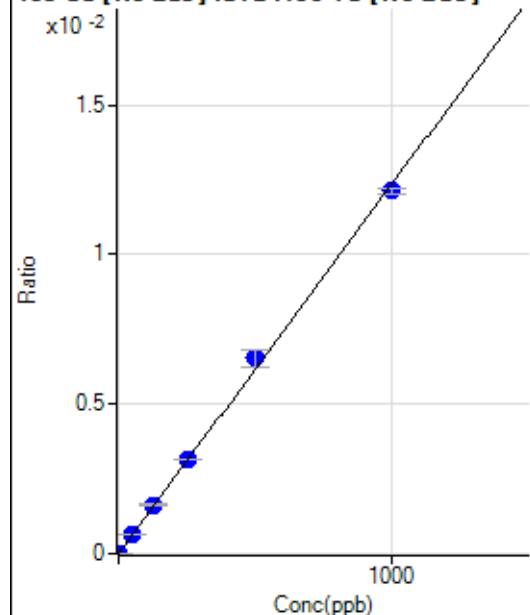
$$DL = 0.008925$$

$$BEC = 0.01122$$

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	1.11	0.0000	P	173.
2	☐	1.000	1.053	93.33	0.0000	P	20.5
3	☐	50.000	52.198	4517.46	0.0006	P	2.5
4	☐	125.000	130.781	11121.23	0.0016	P	4.7
5	☐	250.000	255.294	22193.53	0.0031	P	1.4
6	☐	500.000	529.496	44432.47	0.0065	P	9.3
7	☐	1000.000	983.096	87694.32	0.0121	P	1.3
8	☐			84.44	0.0000	P	20.7

$$y = 1.2330\text{E-}005 * x + 1.6202\text{E-}007$$

$$R = 0.9993$$

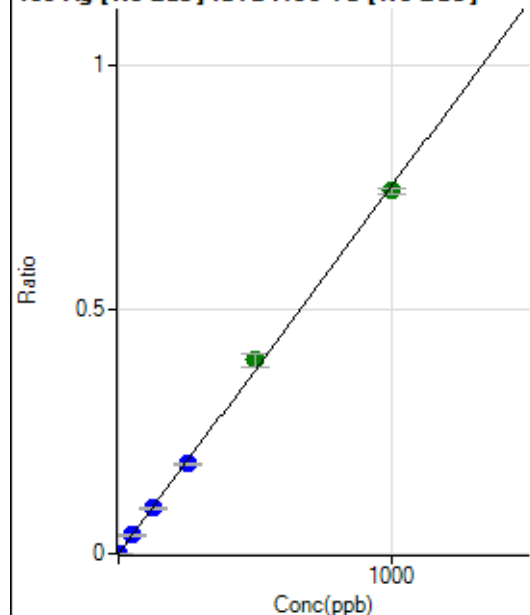
$$DL = 0.06828$$

$$BEC = 0.01314$$

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	50.00	0.0000	P	29.7
2	☐	1.000	0.898	4858.68	0.0007	P	2.2
3	☐	50.000	49.750	263007.35	0.0375	P	1.0
4	☐	125.000	124.061	644644.49	0.0934	P	2.2
5	☐	250.000	243.601	1293479.29	0.1835	P	0.5
6	☐	500.000	528.233	2710566.63	0.3978	A	7.0
7	☐	1000.000	987.613	5380946.24	0.7438	A	1.7
8	☐			1046.72	0.0002	P	7.5

$$y = 7.5314\text{E-}004 * x + 7.2526\text{E-}006$$

$$R = 0.9994$$

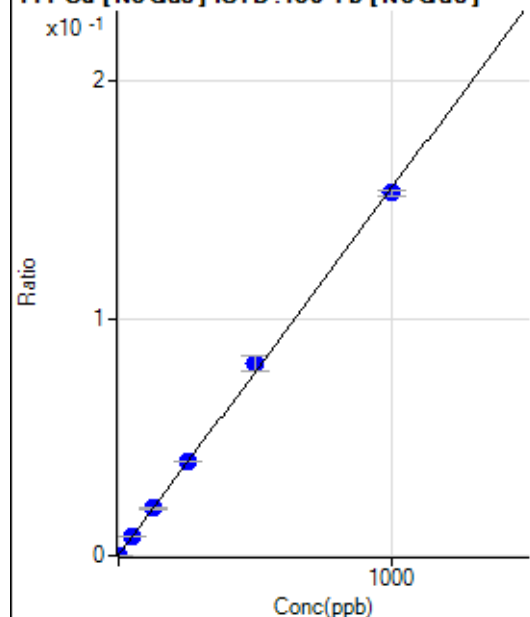
$$DL = 0.008573$$

$$BEC = 0.00963$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	912.83	0.0001	P	10.8
2	☐	1.000	1.021	2061.23	0.0003	P	2.1
3	☐	50.000	52.357	57748.90	0.0082	P	1.4
4	☐	125.000	129.232	138743.61	0.0201	P	3.3
5	☐	250.000	254.495	278359.91	0.0395	P	0.6
6	☐	500.000	521.863	550354.55	0.0808	P	8.2
7	☐	1000.000	987.298	1105353.27	0.1528	P	1.7
8	☐			1506.53	0.0002	P	2.0

$$y = 1.5463\text{E-}004 * x + 1.3214\text{E-}004$$

$$R = 0.9996$$

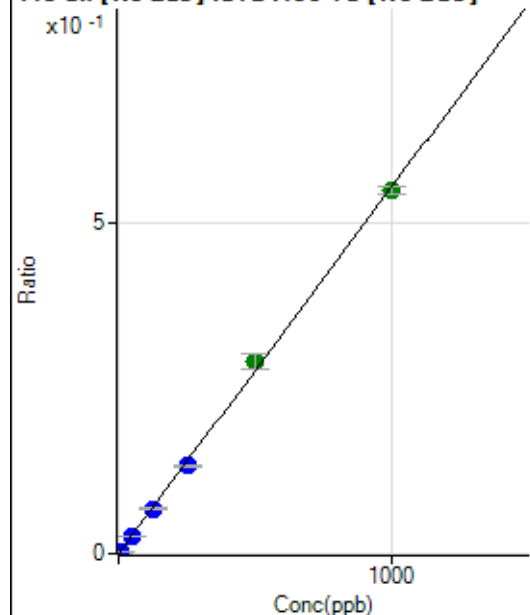
$$DL = 0.2757$$

$$BEC = 0.8545$$

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	560.02	0.0001	P	13.2
2	☐	5.000	4.572	18554.88	0.0026	P	1.5
3	☐	50.000	49.038	190991.65	0.0272	P	0.8
4	☐	125.000	122.674	468825.96	0.0680	P	2.5
5	☐	250.000	238.942	932663.96	0.1323	P	1.0
6	☐	500.000	526.199	1983359.35	0.2912	A	7.9
7	☐	1000.000	990.006	3963121.19	0.5479	A	2.2
8	☐			4731.98	0.0007	P	2.4

$$y = 5.5332\text{E-}004 * x + 8.1169\text{E-}005$$

$$R = 0.9994$$

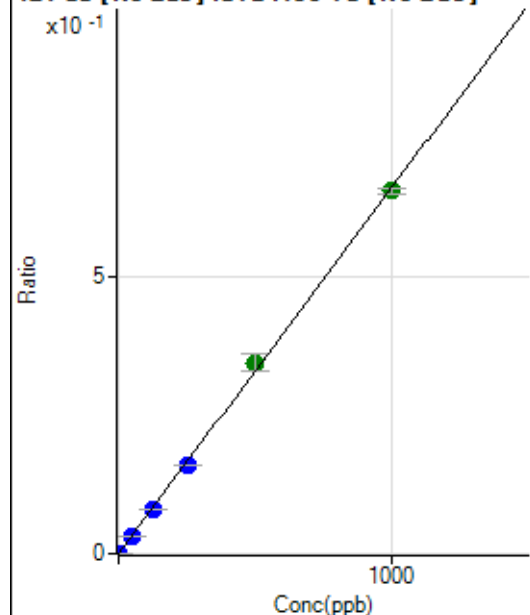
$$DL = 0.05791$$

$$BEC = 0.1467$$

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	28.89	0.0000	P	28.1
2	☐	2.000	1.833	8649.47	0.0012	P	0.8
3	☐	50.000	48.770	226448.98	0.0323	P	0.1
4	☐	125.000	121.046	552453.03	0.0801	P	2.3
5	☐	250.000	239.824	1118527.06	0.1587	P	0.3
6	☐	500.000	521.863	2349559.64	0.3452	A	9.2
7	☐	1000.000	992.168	4748029.93	0.6563	A	1.9
8	☐			3758.33	0.0005	P	7.3

$$y = 6.6151E-004 * x + 4.1779E-006$$

$$R = 0.9996$$

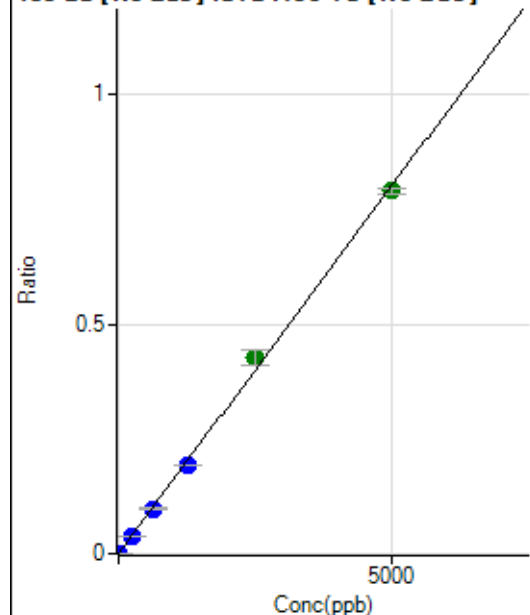
$$DL = 0.005325$$

$$BEC = 0.006316$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	44.45	0.0000	P	24.5
2	☐	10.000	9.137	10441.89	0.0015	P	1.8
3	☐	250.000	243.465	273608.95	0.0390	P	0.5
4	☐	625.000	611.198	675006.58	0.0979	P	3.4
5	☐	1250.000	1199.923	1354460.14	0.1921	P	0.7
6	☐	2500.000	2660.082	2901018.08	0.4259	A	7.5
7	☐	5000.000	4934.532	5715258.25	0.7901	A	1.9
8	☐			3009.26	0.0004	P	4.8

$$y = 1.6011E-004 * x + 6.4429E-006$$

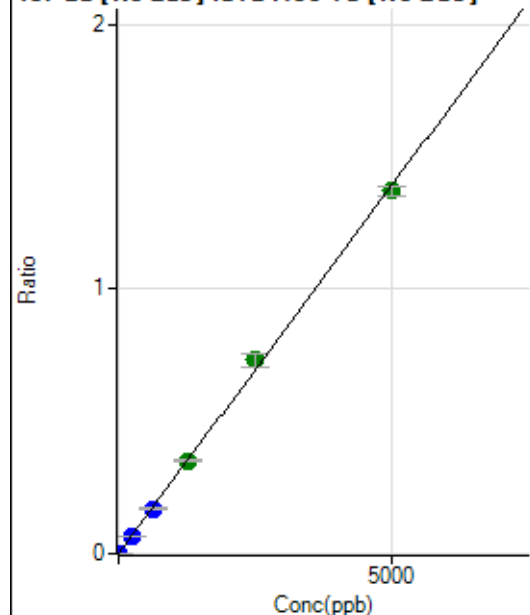
$$R = 0.9992$$

$$DL = 0.02962$$

$$BEC = 0.04024$$

Weight: <None>

Min Conc: 0

¹³⁷Ba [No Gas] ISTD : ¹⁵⁹Tb [No Gas]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	54.44	0.0000	P	20.5
2	☐	10.000	9.045	17924.22	0.0025	P	1.0
3	☐	250.000	246.190	480288.25	0.0684	P	0.5
4	☐	625.000	614.159	1177690.71	0.1707	P	2.4
5	☐	1250.000	1267.211	2483208.35	0.3522	A	1.0
6	☐	2500.000	2631.885	4985630.03	0.7315	A	6.5
7	☐	5000.000	4931.302	9914431.24	1.3707	A	2.5
8	☐			5299.98	0.0008	P	5.9

$$y = 2.7795E-004 * x + 7.8770E-006$$

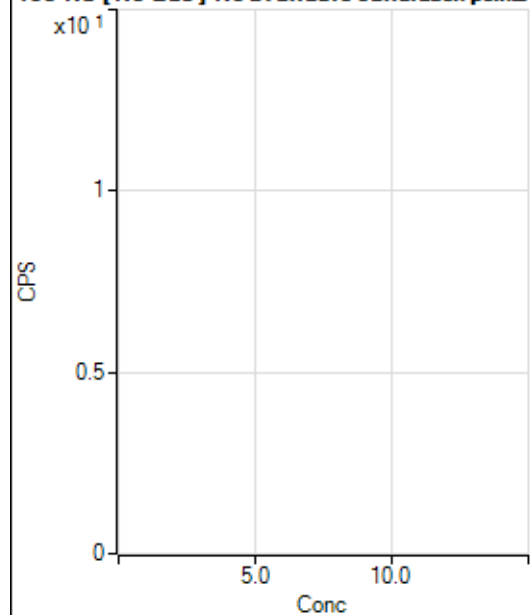
$$R = 0.9995$$

$$DL = 0.01741$$

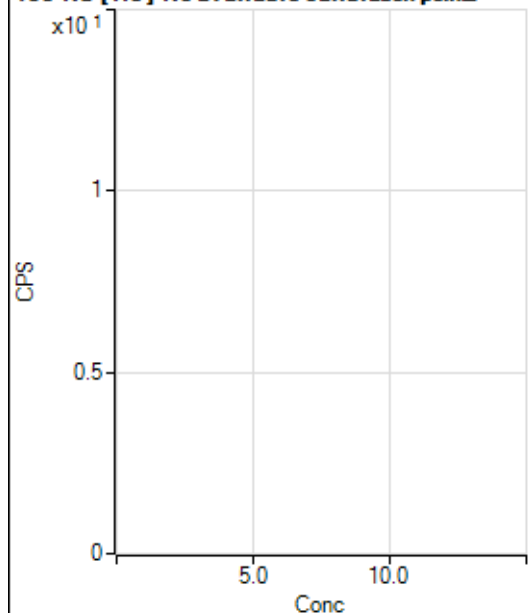
$$BEC = 0.02834$$

Weight: <None>

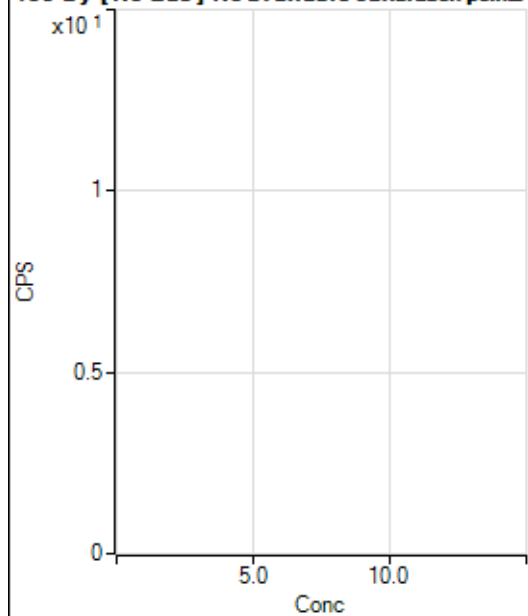
Min Conc: 0

¹⁵⁰Nd [No Gas] No available calibration points

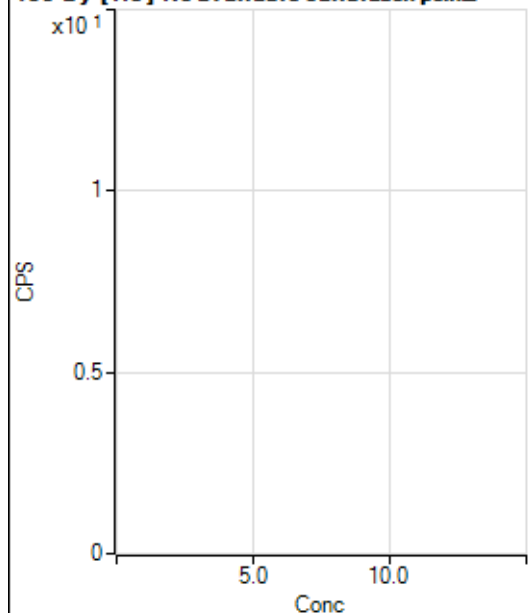
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			11.11		P	69.3
2	☐			7.78		P	49.5
3	☐			28.89		P	24.0
4	☐			35.55		P	37.9
5	☐			102.22		P	29.6
6	☐			203.34		P	11.5
7	☐			362.23		P	4.7
8	☐			177.78		P	1.1

150 Nd [He] No available calibration points

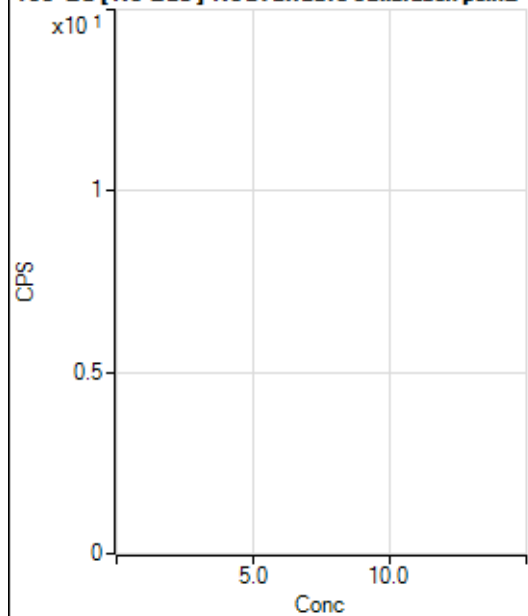
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.
2	☐			1.11		P	173.
3	☐			4.44		P	114.
4	☐			13.33		P	25.0
5	☐			16.67		P	20.0
6	☐			25.56		P	32.8
7	☐			60.00		P	16.7
8	☐			43.33		P	40.7

156 Dy [No Gas] No available calibration points

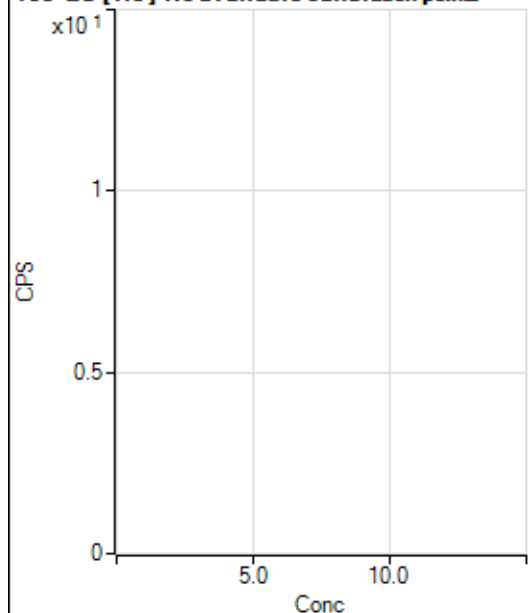
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.89		P	21.6
2	☐			8.89		P	43.3
3	☐			28.89		P	48.0
4	☐			61.11		P	17.5
5	☐			97.78		P	22.2
6	☐			177.78		P	2.9
7	☐			332.23		P	24.7
8	☐			1080.06		P	3.1

156 Dy [He] No available calibration points

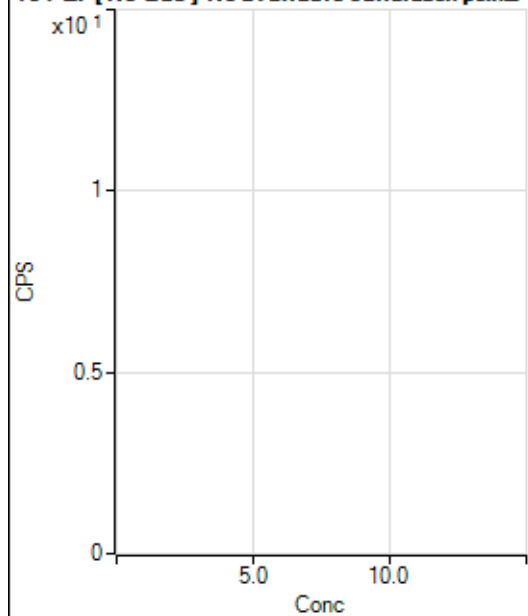
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			0.00		P	
3	☐			10.00		P	33.3
4	☐			14.44		P	58.1
5	☐			55.56		P	25.0
6	☐			102.22		P	8.2
7	☐			158.89		P	7.4
8	☐			477.79		P	4.4

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

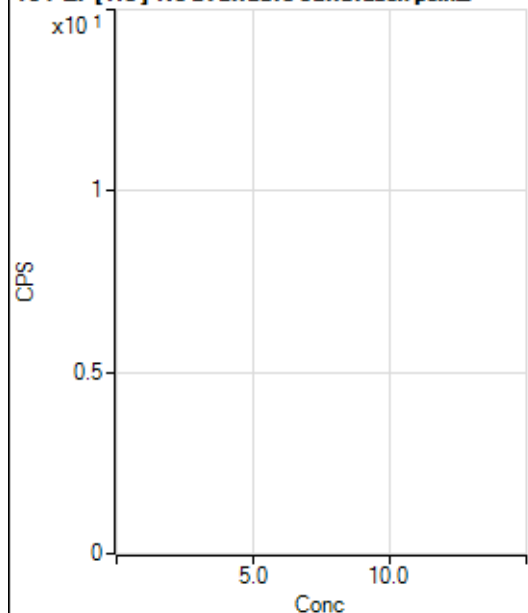
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			28.89		P	29.0
2	☐			25.55		P	27.1
3	☐			43.33		P	40.7
4	☐			74.45		P	14.4
5	☐			94.45		P	28.5
6	☐			184.45		P	2.8
7	☐			362.23		P	10.2
8	☐			1226.74		P	2.6

160 Gd [He] No available calibration points

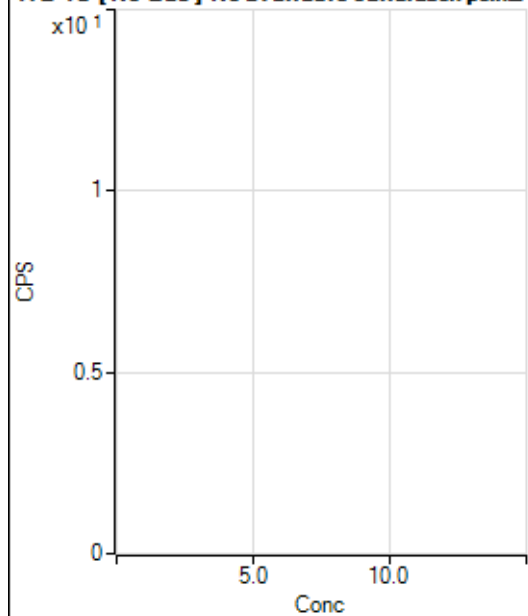
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			61.11		P	19.2
2	☐			76.67		P	26.4
3	☐			75.56		P	11.1
4	☐			73.33		P	19.8
5	☐			84.44		P	30.7
6	☐			157.78		P	6.8
7	☐			210.01		P	13.6
8	☐			563.35		P	5.9

164 Er [No Gas] No available calibration points

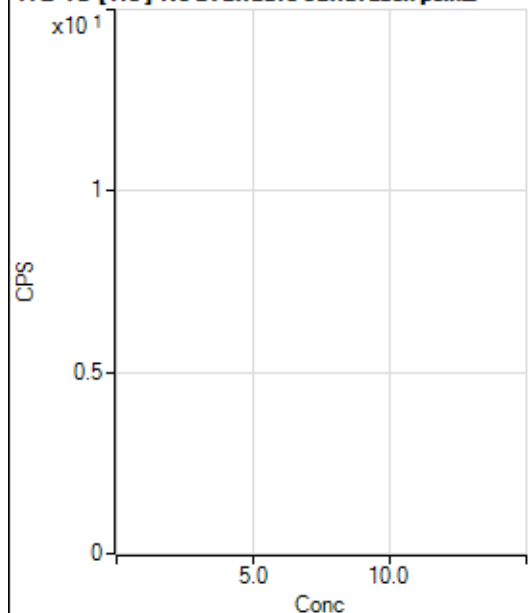
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			47.78		P	21.3
2	☐			40.00		P	16.7
3	☐			47.78		P	17.6
4	☐			65.56		P	2.9
5	☐			72.22		P	10.7
6	☐			113.33		P	10.2
7	☐			173.34		P	3.3
8	☐			188.89		P	29.3

164 Er [He] No available calibration points

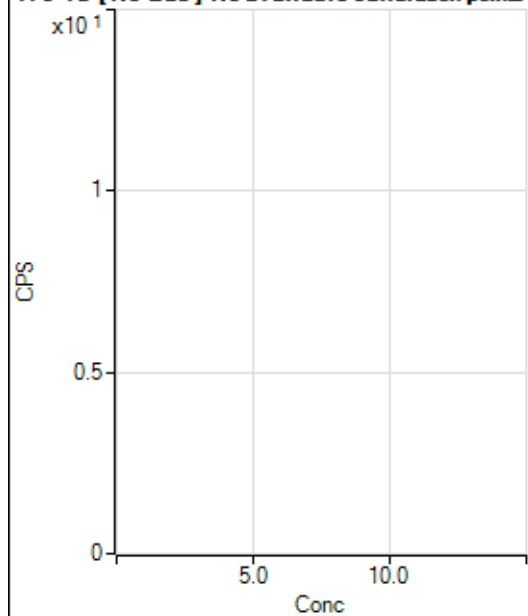
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			17.78		P	21.7
2	☐			12.22		P	56.8
3	☐			20.00		P	28.9
4	☐			20.00		P	16.7
5	☐			42.22		P	24.1
6	☐			45.56		P	40.3
7	☐			62.22		P	18.8
8	☐			61.11		P	6.3

172 Yb [No Gas] No available calibration points

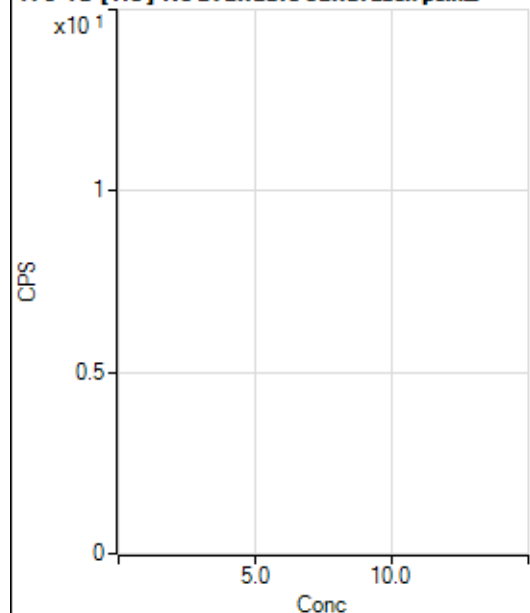
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			42.22		P	44.9
2	☐			30.00		P	11.1
3	☐			43.33		P	30.8
4	☐			64.45		P	16.6
5	☐			74.44		P	11.3
6	☐			126.67		P	9.5
7	☐			167.78		P	20.1
8	☐			182.22		P	20.2

172 Yb [He] No available calibration points

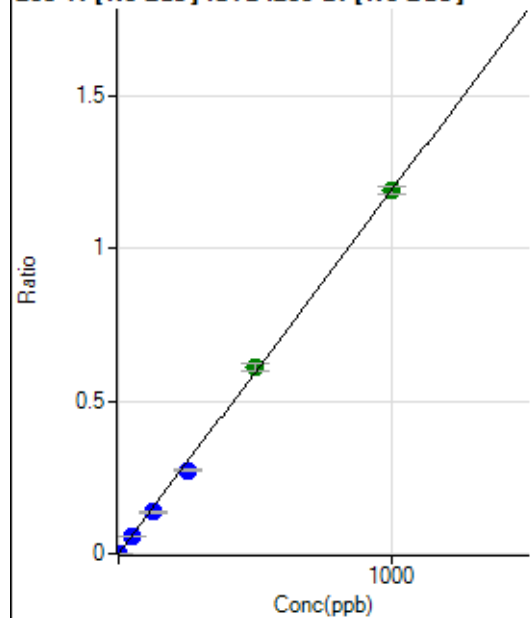
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			16.67		P	20.0
2	☐			24.45		P	43.8
3	☐			13.33		P	75.0
4	☐			27.78		P	13.9
5	☐			30.00		P	67.6
6	☐			52.22		P	16.1
7	☐			82.22		P	16.4
8	☐			68.89		P	28.3

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			664.47		P	2.9
2	☐			682.25		P	4.1
3	☐			1812.37		P	2.7
4	☐			3420.48		P	3.7
5	☐			6272.65		P	1.9
6	☐			12023.36		P	0.8
7	☐			24366.97		P	0.5
8	☐			694.47		P	13.0

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6754.01		P	2.8
2	☐			6879.65		P	2.5
3	☐			6674.01		P	16.0
4	☐			7799.03		P	1.5
5	☐			8606.20		P	0.1
6	☐			10645.49		P	0.4
7	☐			15554.81		P	0.2
8	☐			7021.94		P	3.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	81.11	0.0000	P	25.3
2	☐	1.000	0.857	5157.74	0.0010	P	4.3
3	☐	50.000	45.376	272006.53	0.0540	P	1.1
4	☐	125.000	114.768	666003.51	0.1366	P	3.6
5	☐	250.000	229.437	1348897.63	0.2731	P	2.2
6	☐	500.000	514.606	2914578.29	0.6125	A	4.7
7	☐	1000.000	999.348	5880790.47	1.1895	A	2.1
8	☐			2066.85	0.0005	P	7.7

$$y = 0.0012 * x + 1.6604E-005$$

$$R = 0.9996$$

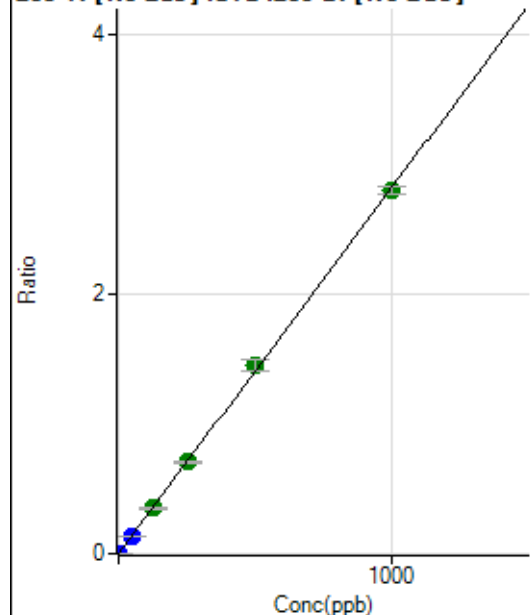
$$DL = 0.01059$$

$$BEC = 0.01395$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	183.33	0.0000	P	11.6
2	☐	1.000	0.842	11998.97	0.0024	P	1.2
3	☐	50.000	46.099	654500.16	0.1300	P	0.3
4	☐	125.000	124.066	1705639.09	0.3498	A	2.2
5	☐	250.000	251.319	3499260.47	0.7085	A	2.7
6	☐	500.000	515.372	6906257.61	1.4528	A	7.1
7	☐	1000.000	992.296	13830062.57	2.7972	A	2.1
8	☐			5009.92	0.0011	P	8.3

$$y = 0.0028 * x + 3.7507E-005$$

$$R = 0.9998$$

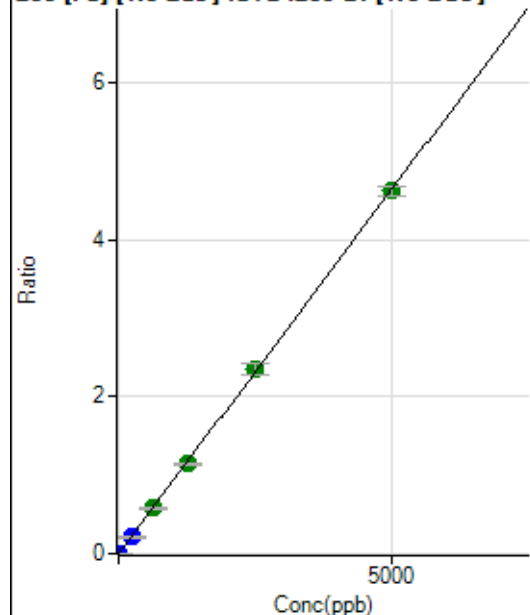
$$DL = 0.004636$$

$$BEC = 0.01331$$

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	461.12	0.0001	P	7.9
2	☐	1.000	0.867	4468.60	0.0009	P	1.4
3	☐	250.000	225.562	1053474.28	0.2092	P	1.0
4	☐	625.000	624.833	2825872.28	0.5794	A	1.8
5	☐	1250.000	1230.403	5635285.27	1.1409	A	2.1
6	☐	2500.000	2544.265	11218174.97	2.3591	A	6.3
7	☐	5000.000	4984.009	22847956.60	4.6212	A	2.3
8	☐			12351.55	0.0028	P	7.5

$$y = 9.2719E-004 * x + 9.4314E-005$$

$$R = 0.9999$$

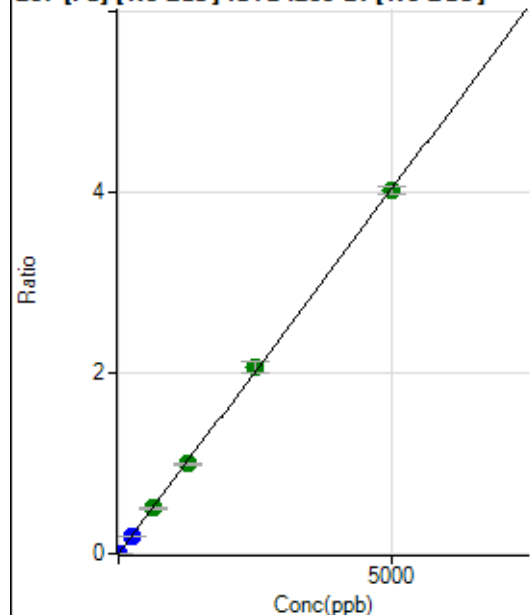
$$DL = 0.0241$$

$$BEC = 0.1017$$

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	398.90	0.0001	P	2.4
2	☐	1.000	0.940	4168.50	0.0008	P	3.0
3	☐	250.000	228.023	924683.03	0.1837	P	1.2
4	☐	625.000	624.681	2451868.84	0.5030	A	3.9
5	☐	1250.000	1227.284	4880801.80	0.9881	A	1.8
6	☐	2500.000	2559.234	9795151.11	2.0605	A	7.0
7	☐	5000.000	4977.201	19811519.43	4.0071	A	2.1
8	☐			10450.98	0.0024	P	5.7

$$y = 8.0507\text{E-}004 * x + 8.1592\text{E-}005$$

$$R = 0.9999$$

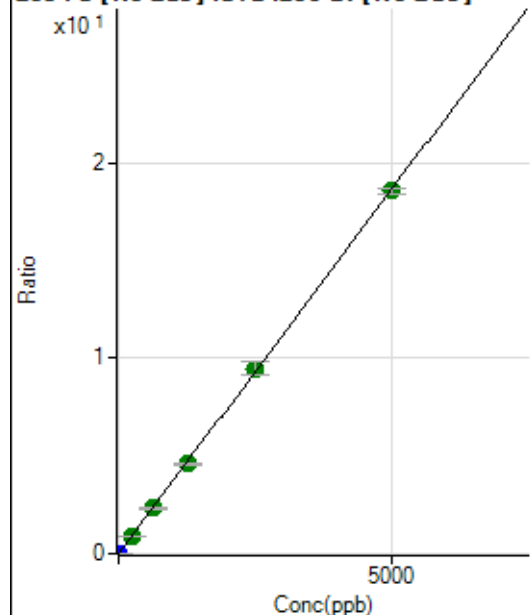
$$DL = 0.007197$$

$$BEC = 0.1013$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1822.30	0.0004	P	5.9
2	☐	1.000	0.904	18593.22	0.0037	P	1.0
3	☐	250.000	237.662	4456792.78	0.8851	A	0.1
4	☐	625.000	621.630	11285435.75	2.3145	A	2.7
5	☐	1250.000	1230.748	22633714.81	4.5821	A	1.2
6	☐	2500.000	2547.909	45099230.16	9.4855	A	6.6
7	☐	5000.000	4981.897	91703616.97	18.5464	A	1.5
8	☐			48945.76	0.0110	P	5.4

$$y = 0.0037 * x + 3.7271\text{E-}004$$

$$R = 0.9999$$

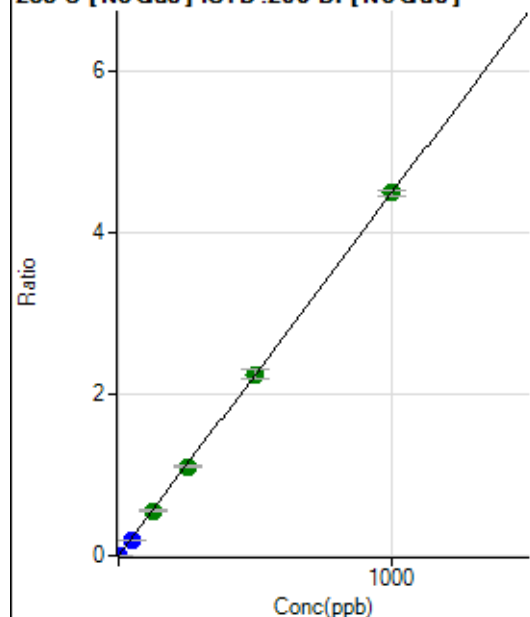
$$DL = 0.01777$$

$$BEC = 0.1001$$

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	127.78	0.0000	P	9.9
2	☐	1.000	0.829	18613.70	0.0037	P	0.8
3	☐	50.000	44.237	998061.92	0.1982	P	0.4
4	☐	125.000	123.562	2698558.71	0.5536	A	4.1
5	☐	250.000	244.936	5420500.20	1.0974	A	1.7
6	☐	500.000	501.038	10676852.83	2.2448	A	5.7
7	☐	1000.000	1001.215	22179698.28	4.4857	A	1.9
8	☐			5533.51	0.0012	P	9.4

$$y = 0.0045 * x + 2.6124E-005$$

$$R = 1.0000$$

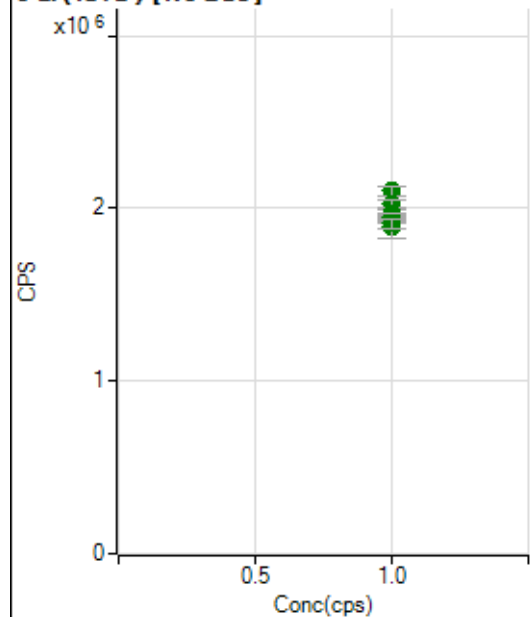
$$DL = 0.001733$$

$$BEC = 0.005831$$

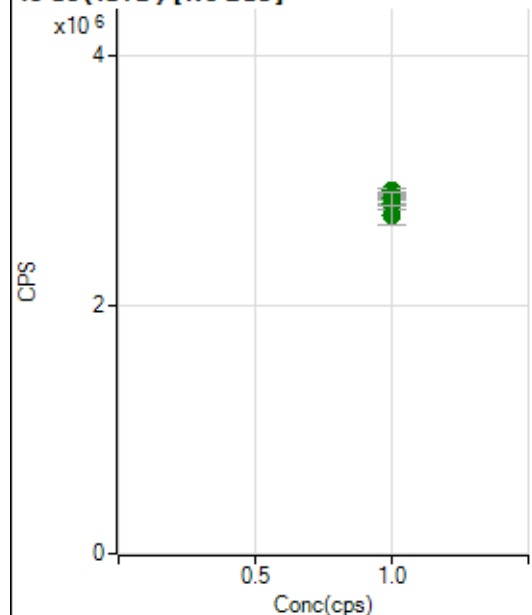
Weight: <None>

Min Conc: 0

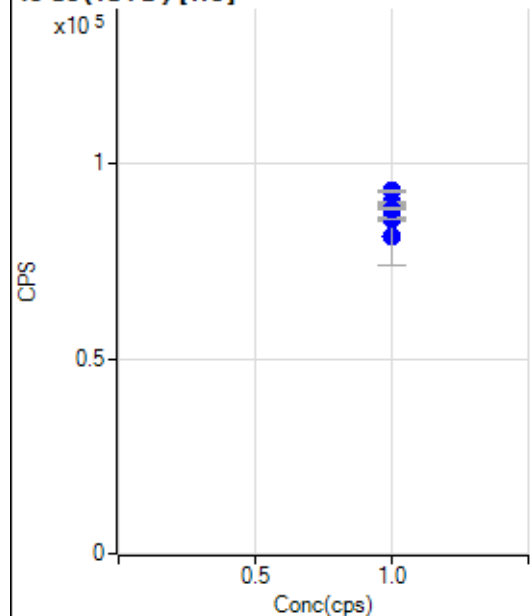
6 Li (ISTD) [No Gas]



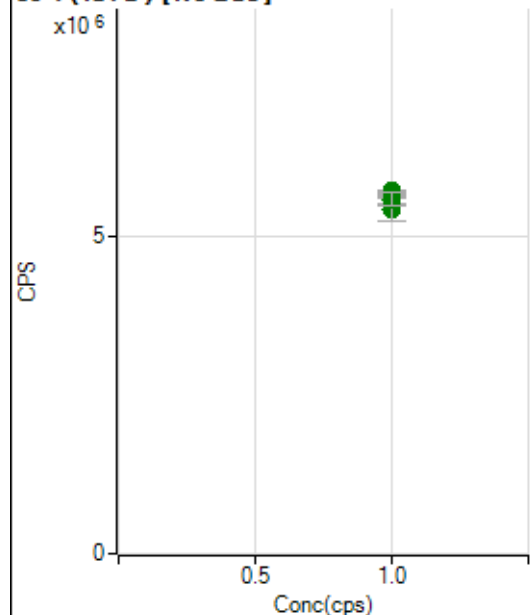
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2001863.46		A	0.7
2	☐	1.000		2100539.62		A	3.0
3	☐	1.000		2028750.47		A	2.2
4	☐	1.000		1968013.87		A	0.8
5	☐	1.000		1924502.90		A	0.5
6	☐	1.000		1889867.30		A	6.3
7	☐	1.000		1949546.70		A	2.6
8	☐	1.000		1911012.45		A	3.3

45 Sc (ISTD) [No Gas]

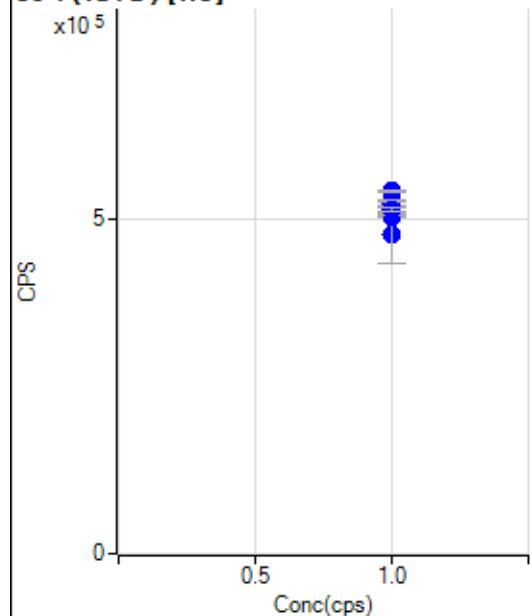
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2882486.35		A	0.7
2	☐	1.000		2917250.34		A	1.4
3	☐	1.000		2841879.16		A	1.7
4	☐	1.000		2813430.90		A	2.7
5	☐	1.000		2857228.53		A	0.9
6	☐	1.000		2720413.54		A	6.0
7	☐	1.000		2871384.96		A	0.5
8	☐	1.000		2856348.98		A	3.6

45 Sc (ISTD) [He]

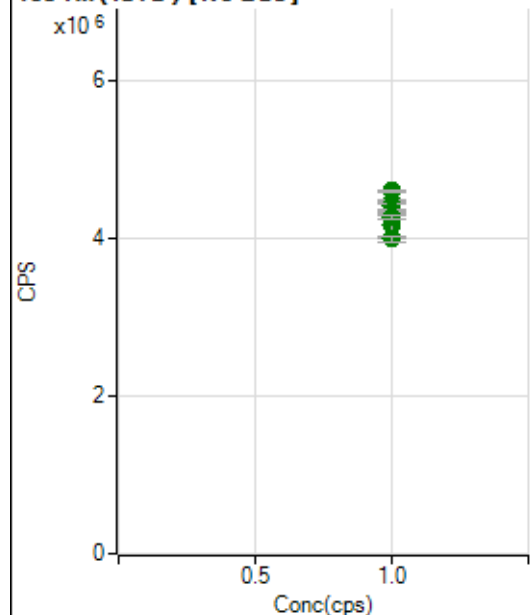
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		88863.61		P	1.2
2	☐	1.000		90113.60		P	0.6
3	☐	1.000		81201.61		P	17.7
4	☐	1.000		85819.96		P	0.8
5	☐	1.000		85719.16		P	1.1
6	☐	1.000		86172.86		P	0.5
7	☐	1.000		88387.12		P	0.2
8	☐	1.000		92973.85		P	0.5

89 Y (ISTD) [No Gas]

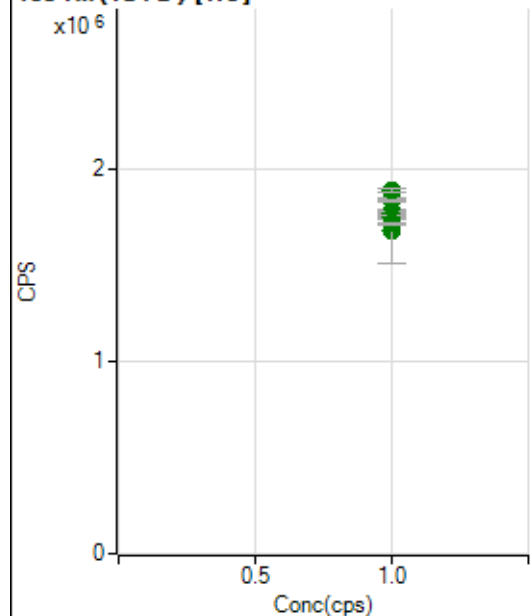
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5661616.65		A	1.4
2	☐	1.000		5730014.29		A	0.5
3	☐	1.000		5640876.93		A	0.6
4	☐	1.000		5608087.14		A	2.5
5	☐	1.000		5668135.19		A	0.4
6	☐	1.000		5446149.68		A	6.8
7	☐	1.000		5650070.89		A	0.5
8	☐	1.000		5598767.07		A	3.5

89 Y (ISTD) [He]

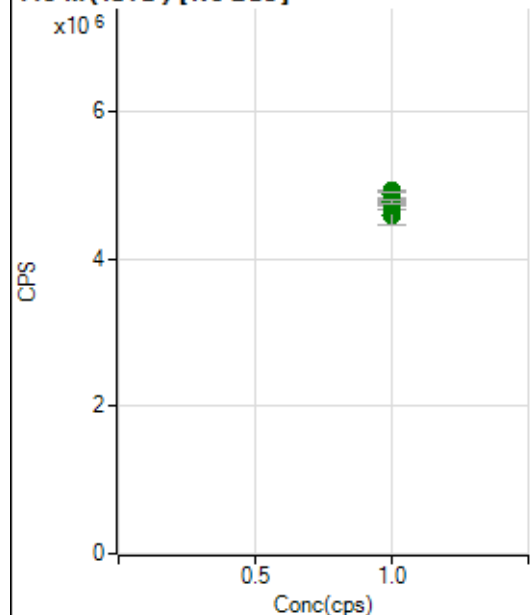
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		523098.51		P	1.0
2	☐	1.000		528198.56		P	0.6
3	☐	1.000		476712.39		P	17.2
4	☐	1.000		508709.07		P	0.4
5	☐	1.000		503223.79		P	0.5
6	☐	1.000		506402.46		P	0.5
7	☐	1.000		514818.66		P	0.6
8	☐	1.000		542567.99		P	0.5

103 Rh (ISTD) [No Gas]

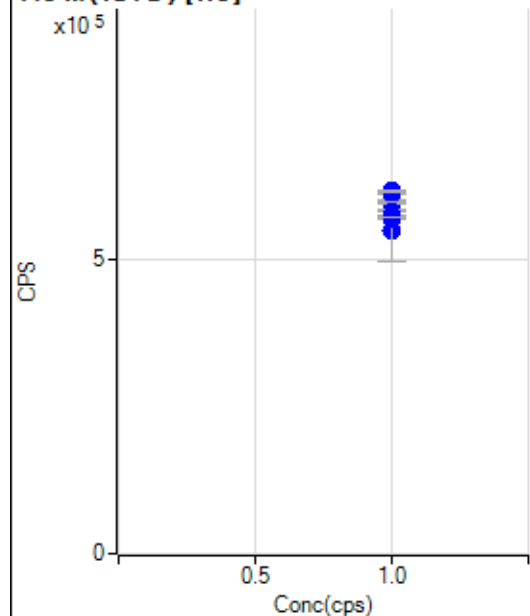
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4471863.23		A	0.5
2	☐	1.000		4603984.65		A	0.5
3	☐	1.000		4410810.63		A	1.6
4	☐	1.000		4374517.36		A	3.3
5	☐	1.000		4351200.46		A	0.4
6	☐	1.000		4163628.30		A	7.3
7	☐	1.000		4269849.14		A	1.3
8	☐	1.000		3997293.31		A	1.9

103 Rh (ISTD) [He]

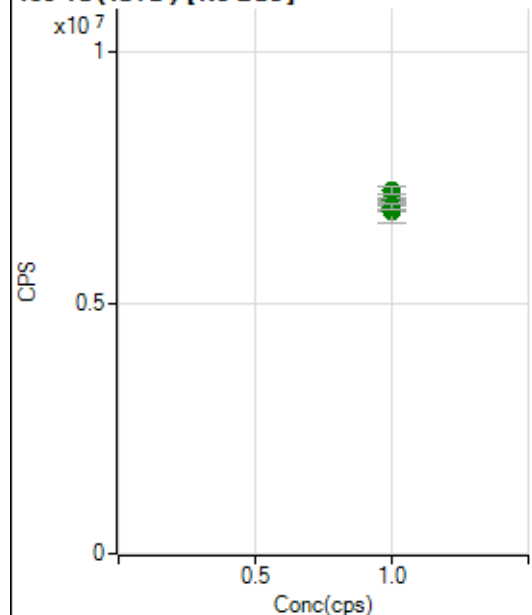
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1844339.68		A	1.1
2	☐	1.000		1886438.03		A	1.1
3	☐	1.000		1675016.52		A	19.5
4	☐	1.000		1781838.39		A	1.2
5	☐	1.000		1754330.72		A	0.5
6	☐	1.000		1769148.15		A	1.1
7	☐	1.000		1751361.24		A	0.8
8	☐	1.000		1717395.93		A	0.4

115 In (ISTD) [No Gas]

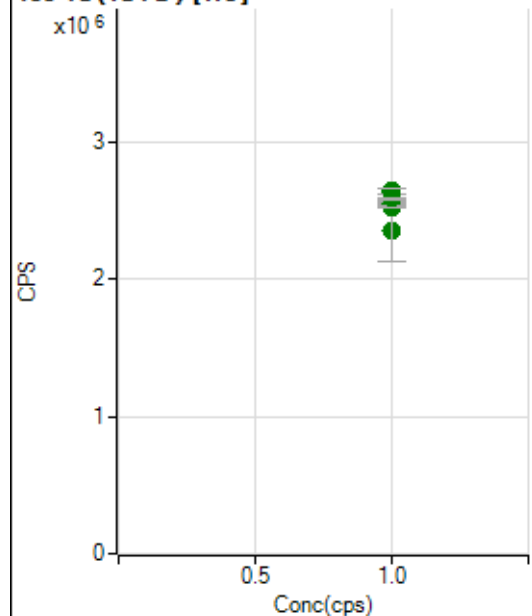
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4880124.67		A	1.6
2	☐	1.000		4925711.14		A	0.8
3	☐	1.000		4873589.89		A	1.8
4	☐	1.000		4738024.88		A	2.2
5	☐	1.000		4764362.03		A	1.5
6	☐	1.000		4600621.51		A	6.3
7	☐	1.000		4721995.16		A	0.3
8	☐	1.000		4775224.29		A	1.5

115 In (ISTD) [He]

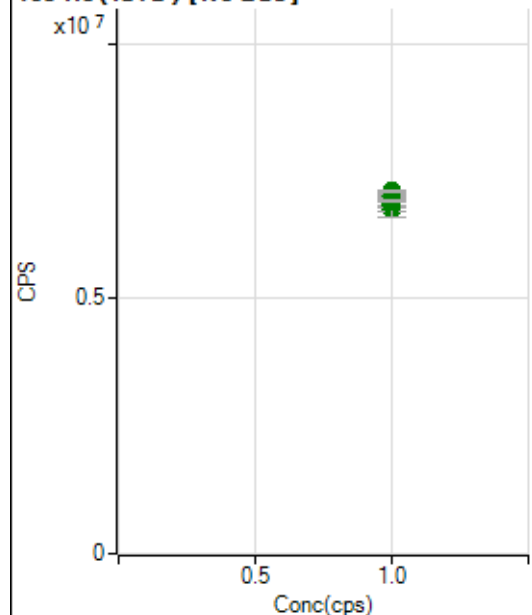
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		597496.09		P	0.9
2	☐	1.000		610830.91		P	0.2
3	☐	1.000		546868.27		P	18.0
4	☐	1.000		581165.77		P	0.5
5	☐	1.000		574060.32		P	0.5
6	☐	1.000		568518.04		P	0.3
7	☐	1.000		571070.35		P	0.3
8	☐	1.000		615861.01		P	0.5

159 Tb (ISTD) [No Gas]

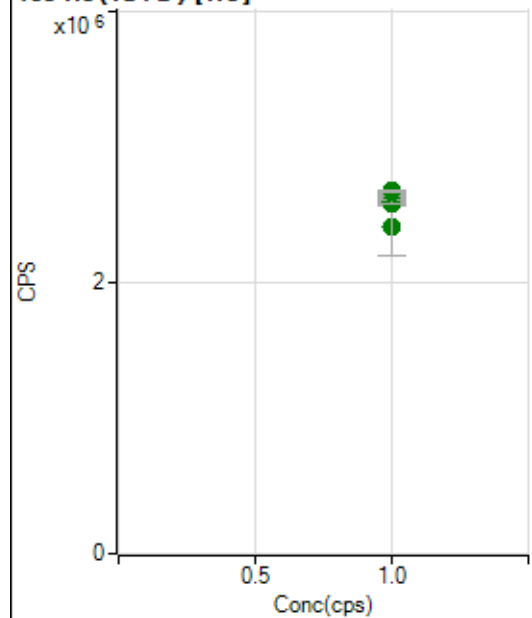
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6902631.22		A	1.1
2	☐	1.000		7107733.57		A	1.3
3	☐	1.000		7018159.13		A	0.7
4	☐	1.000		6901633.86		A	2.7
5	☐	1.000		7050199.20		A	0.8
6	☐	1.000		6835788.79		A	7.1
7	☐	1.000		7235875.73		A	2.1
8	☐	1.000		6912591.91		A	1.8

159 Tb (ISTD) [He]

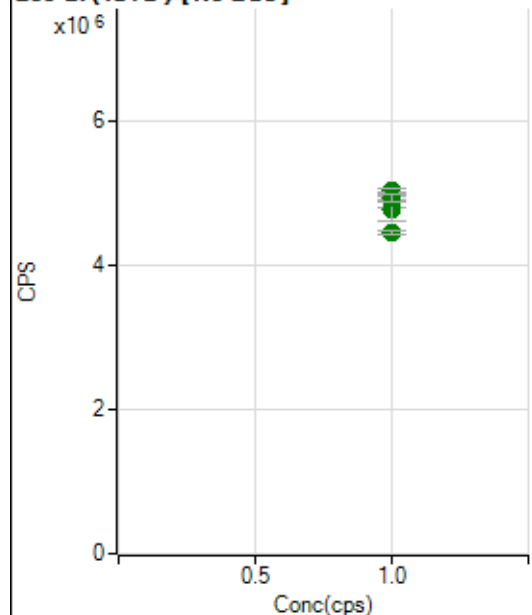
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2563722.36		A	2.3
2	☐	1.000		2645311.70		A	1.5
3	☐	1.000		2350841.96		A	19.2
4	☐	1.000		2537450.50		A	1.2
5	☐	1.000		2552791.46		A	0.7
6	☐	1.000		2529964.33		A	0.6
7	☐	1.000		2638085.27		A	1.5
8	☐	1.000		2590413.90		A	0.4

165 Ho (ISTD) [No Gas]

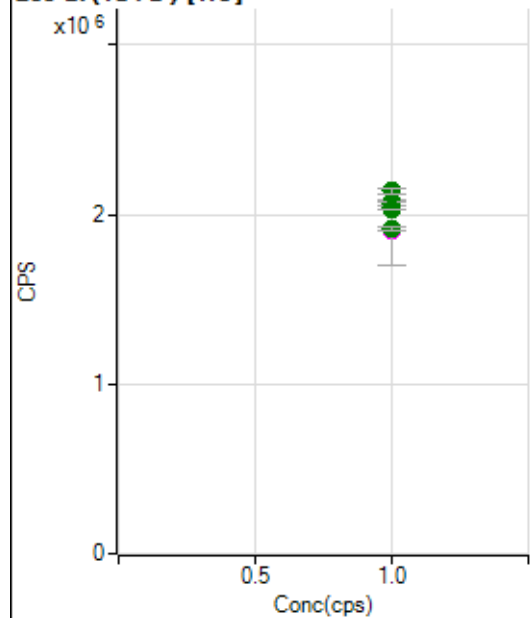
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6766016.77		A	1.2
2	☐	1.000		7027127.40		A	0.6
3	☐	1.000		7007212.46		A	2.3
4	☐	1.000		6871468.72		A	3.0
5	☐	1.000		6864630.38		A	1.5
6	☐	1.000		6829722.68		A	6.4
7	☐	1.000		7111825.73		A	0.6
8	☐	1.000		6915198.44		A	1.0

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2643588.97		A	1.2
2	☐	1.000		2632992.34		A	1.5
3	☐	1.000		2416823.80		A	17.6
4	☐	1.000		2587964.73		A	1.0
5	☐	1.000		2593038.23		A	1.7
6	☐	1.000		2593931.05		A	1.2
7	☐	1.000		2663310.41		A	1.5
8	☐	1.000		2677336.54		A	0.6

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4889234.13		A	0.7
2	☐	1.000		4974038.22		A	0.4
3	☐	1.000		5035271.49		A	1.1
4	☐	1.000		4879031.87		A	3.5
5	☐	1.000		4939828.64		A	0.8
6	☐	1.000		4767112.92		A	6.0
7	☐	1.000		4945613.81		A	2.2
8	☐	1.000		4447701.84		A	1.4

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2080834.19		A	1.0
2	☐	1.000		2139763.68		A	1.5
3	☐	1.000		1909733.79		M	21.7
4	☐	1.000		2066450.06		A	1.5
5	☐	1.000		2040148.51		A	0.8
6	☐	1.000		2064345.35		A	1.5
7	☐	1.000		2029140.42		A	0.5
8	☐	1.000		1914491.60		A	1.3

US EPA Tune Check Report

Operator Name

Jaswal

Acq/Data Batch

D:\Agilent\ICPMH\1\DATA\IP8031724MS.b

Acq. Date-Time

2024-03-17 14:57:50

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		8084	80835.47			0.225	5.000
24		72584	725840.80			0.475	5.000
25		9606	96059.21			0.428	5.000
26		11269	112688.39			0.625	5.000
59		50907	509072.82			0.361	5.000
113		6666	66661.80			0.461	5.000
115		89445	894454.02			0.617	5.000
206		25507	255073.30			1.317	5.000
207		23076	230756.93			1.148	5.000
208		55187	551870.31			0.949	5.000
220		0	1.40			29.881	

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

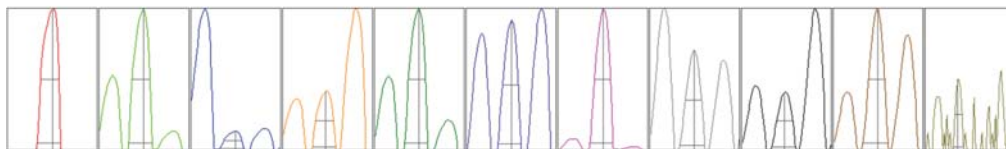
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	8077	8109	8088	8058	8085
24	72619	72946	72862	72107	72386
25	9632	9662	9564	9600	9572
26	11330	11351	11260	11193	11210
59	50735	50993	50797	50823	51188
113	6683	6631	6641	6670	6706
115	89329	88596	90101	89563	89639
206	25200	25254	25461	25580	26041
207	22837	22887	23094	23052	23509
208	54653	54679	55259	55473	55870

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	13841.16	9.05	8.90 - 9.10	
24	128128.28	24.00	23.90 - 24.10	
25	16888.54	25.00	24.90 - 25.10	
26	19292.21	25.95	25.90 - 26.10	
59	94130.91	59.00	58.90 - 59.10	
113	13139.76	113.05	112.90 - 113.10	
115	174332.32	115.05	114.90 - 115.10	
206	48369.63	206.00	205.90 - 206.10	
207	43442.74	206.95	206.90 - 207.10	
208	105476.42	208.00	207.90 - 208.10	
220	0.40	219.60	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.62	0.779	0.900	
24	0.60	0.785	0.900	
25	0.60	0.804	0.900	
26	0.61	0.785	0.900	
59	0.57	0.771	0.900	
113	0.52	0.770	0.900	
115	0.53	0.770	0.900	
206	0.54	0.826	0.900	
207	0.54	0.783	0.900	
208	0.53	0.844	0.900	
220	0.25	0.340		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode ---

Nebulizer Gas 0.85 L/min

Dilution Gas 0.40 L/min

US EPA Tune Check Report

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

Lens Parameters

Extract 1	-6.0 V	Omega Lens	9.8 V	Deflect	14.0 V
Extract 2	-180.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-100 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	123	Axis Gain	0.9993	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	0.00		

Hardware Settings

Torch

Torch H	0.9 mm	Torch V	-0.8 mm
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EM

Discriminator	4.6 mV	Analog HV	2314 V	Pulse HV	1694 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		10850	108498.45			0.387	
89		8773	87727.70			0.612	
205		16513	165133.54			1.410	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	10800	10865	10871	10813	10900
89	8778	8755	8695	8795	8841
205	16494	16297	16285	16674	16817

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.85 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	9.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	9.8 V	Deflect	3.6 V
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US EPA Tune Check Report

Extract 2	-180.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-100 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	123	Axis Gain	0.9993	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	0.00		
Hardware Settings					
Torch					
Torch H	0.9 mm	Torch V	-0.8 mm		
EM					
Discriminator	4.6 mV	Analog HV	2314 V	Pulse HV	1694 V