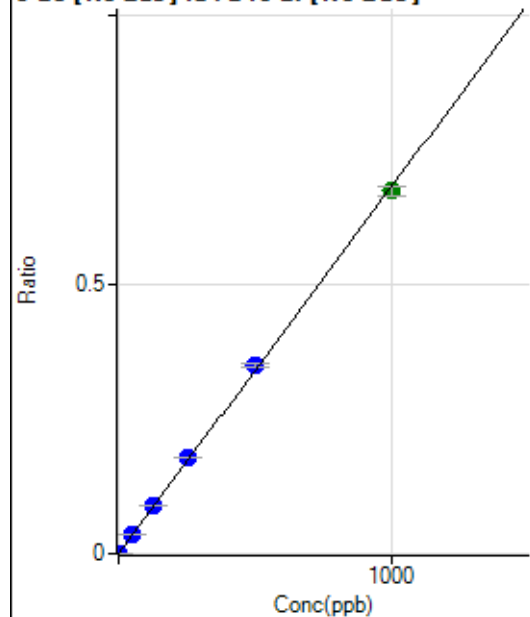


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8022924 MS.b\
Analysis File: P8022924 MS.batch.bin
DA Date-Time: 2024-02-29 22:42:26
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2024-02-29 12:40:53
2	005CALS.d	S02	2024-02-29 12:44:18
3	006CALS.d	S03	2024-02-29 12:47:45
4	007CALS.d	S04	2024-02-29 12:51:01
5	008CALS.d	S05	2024-02-29 12:54:11
6	009CALS.d	S06	2024-02-29 12:57:15
7	010CALS.d	S07	2024-02-29 13:00:19
8	011CALS.d	S08	2024-02-29 13:03:21

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	41.25	0.0000	P	17.0
2	☐	1.000	1.032	1499.06	0.0007	P	5.5
3	☐	50.000	52.659	72703.47	0.0359	P	2.2
4	☐	125.000	131.530	166020.52	0.0896	P	0.2
5	☐	250.000	261.591	309795.70	0.1782	P	1.5
6	☐	500.000	515.008	594968.32	0.3509	P	1.9
7	☐	1000.000	988.649	1118801.64	0.6735	A	2.4
8	☐			848.27	0.0005	P	72.5

$$y = 6.8125E-004 * x + 1.9578E-005$$

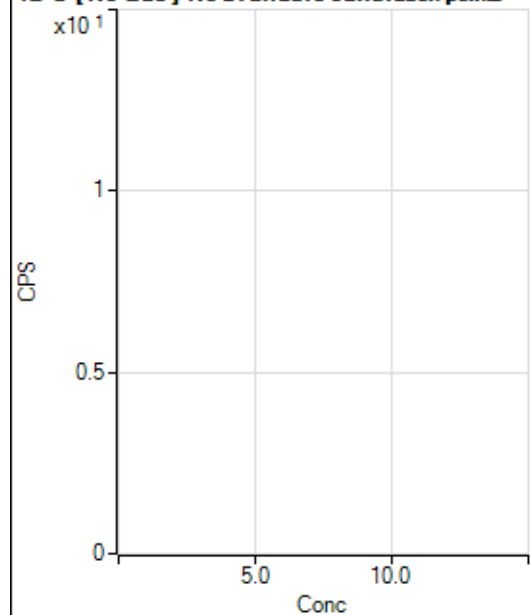
$$R = 0.9997$$

$$DL = 0.01464$$

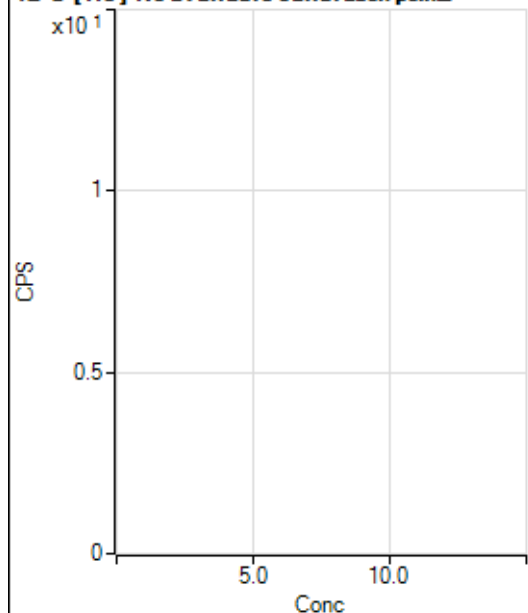
$$BEC = 0.02874$$

Weight: <None>

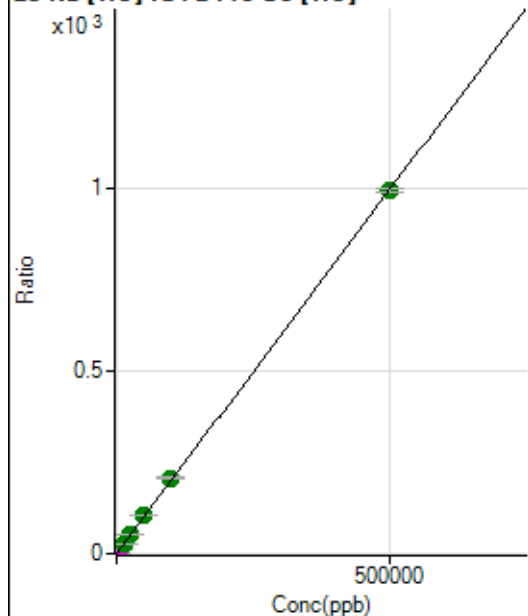
Min Conc: 0

12 C [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1776199.52		A	1.8
2	☐			1703665.27		A	1.1
3	☐			1662976.63		A	2.8
4	☐			1540384.75		A	0.8
5	☐			1475374.88		A	0.9
6	☐			1542072.46		A	4.3
7	☐			1619408.20		A	3.6
8	☐			1535420.89		A	3.8

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			23287.40		P	1.5
2	☐			22091.09		P	1.6
3	☐			22183.50		P	1.4
4	☐			20682.37		P	0.9
5	☐			20651.24		P	1.3
6	☐			22064.45		P	2.5
7	☐			23592.37		P	0.4
8	☐			26432.70		P	2.7

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	10400.46	0.1050	P	2.4
2	☐	500.000	498.204	113577.99	1.0946	P	0.4
3	☐	5000.000	5460.298	1068329.70	10.9505	M	1.4
4	☐	12500.000	13514.293	2432107.58	26.9477	A	1.9
5	☐	25000.000	26681.742	4601030.97	53.1014	A	1.8
6	☐	50000.000	53112.213	9059560.28	105.5988	A	1.1
7	☐	100000.00	104242.33	17668919.46	207.1556	A	2.6
8	☐	500000.00	498726.26	95741279.68	990.6965	A	1.1

$$y = 0.0020 * x + 0.1050$$

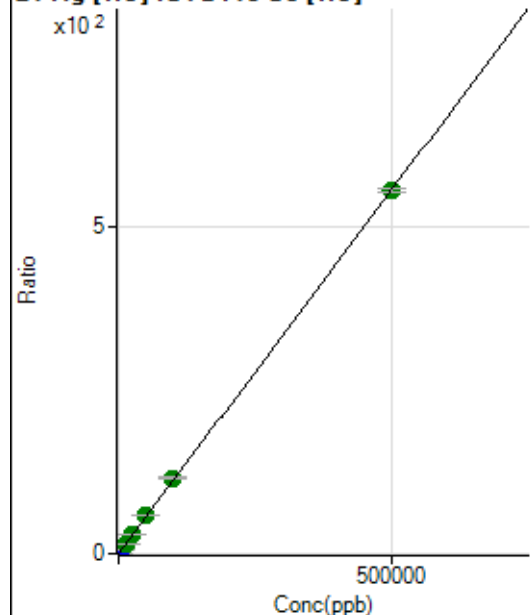
$$R = 1.0000$$

$$DL = 3.838$$

$$BEC = 52.86$$

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	117.78	0.0012	P	22.3
2	☐	500.000	505.806	58476.69	0.5635	P	1.4
3	☐	5000.000	5402.351	586001.01	6.0072	P	0.2
4	☐	12500.000	13543.077	1358804.25	15.0575	A	3.1
5	☐	25000.000	26697.187	2571960.88	29.6813	A	1.2
6	☐	50000.000	52456.768	5003758.60	58.3191	A	1.0
7	☐	100000.00	103361.12	9800840.83	114.9112	A	2.7
8	☐	500000.00	498967.13	53610946.42	554.7195	A	1.2

$$y = 0.0011 * x + 0.0012$$

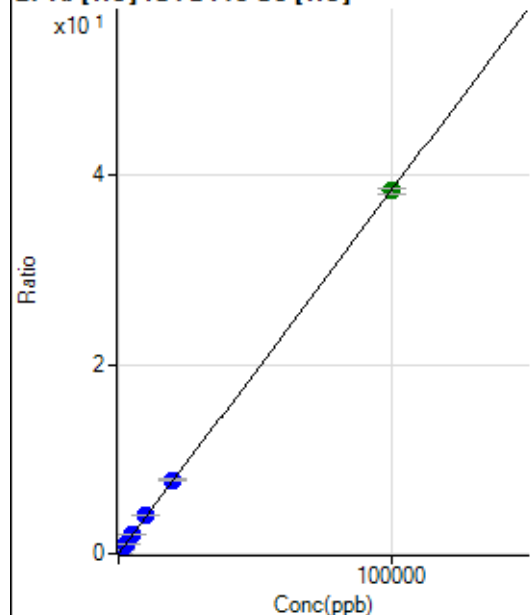
$$R = 1.0000$$

$$DL = 0.7173$$

$$BEC = 1.074$$

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	38.89	0.0004	P	29.6
2	☐	20.000	18.789	788.92	0.0076	P	3.7
3	☐	1000.000	1057.293	39603.84	0.4061	P	2.6
4	☐	2500.000	2681.903	92915.27	1.0294	P	1.7
5	☐	5000.000	5223.582	173712.52	2.0047	P	1.6
6	☐	10000.000	10480.076	345057.67	4.0216	P	0.3
7	☐	20000.000	20361.678	666530.43	7.8132	P	1.0
8	☐	100000.00	99863.357	3703545.08	38.3182	A	1.7

$$y = 3.8370E-004 * x + 3.9531E-004$$

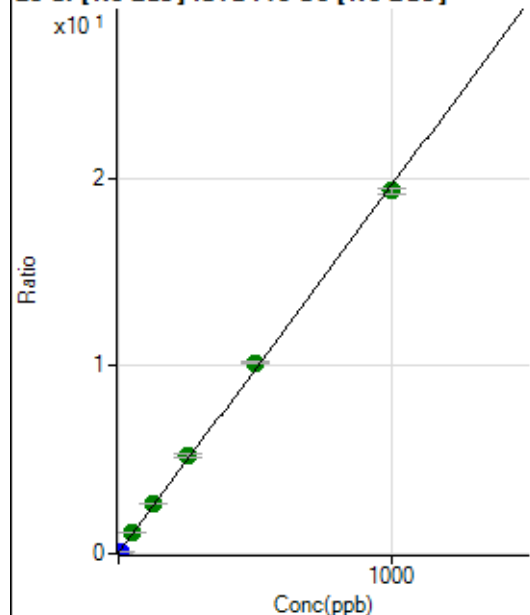
$$R = 1.0000$$

$$DL = 0.9163$$

$$BEC = 1.03$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	150837.85	0.0453	P	1.6
2	☐	10.000	0.384	171377.04	0.0529	P	3.4
3	☐	50.000	54.956	3620205.43	1.1216	A	0.4
4	☐	125.000	135.065	8068126.27	2.6903	A	1.1
5	☐	250.000	266.404	14901258.53	5.2623	A	3.5
6	☐	500.000	517.900	28391965.41	10.1874	A	1.3
7	☐	1000.000	985.539	54725796.96	19.3452	A	1.6
8	☐			603976.57	0.2192	P	11.1

$$y = 0.0196 * x + 0.0453$$

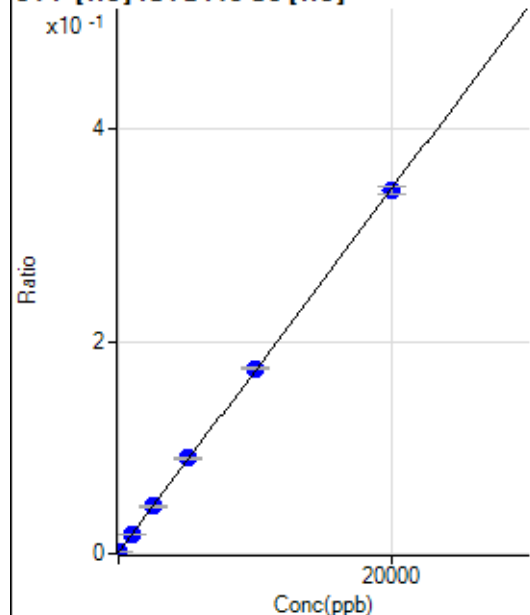
$$R = 0.9994$$

$$DL = 0.1089$$

$$BEC = 2.315$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-9.846	108.89	0.0011	P	11.5
2	☐	0.000	9.846	148.89	0.0014	P	20.4
3	☐	1000.000	990.972	1780.13	0.0182	P	1.8
4	☐	2500.000	2529.799	4028.37	0.0446	P	3.7
5	☐	5000.000	5178.340	7798.82	0.0900	P	2.3
6	☐	10000.000	10122.896	14992.30	0.1747	P	0.8
7	☐	20000.000	19890.693	29180.43	0.3421	P	2.0
8	☐			88.89	0.0009	P	37.0

$$y = 1.7136E-005 * x + 0.0013$$

$$R = 0.9999$$

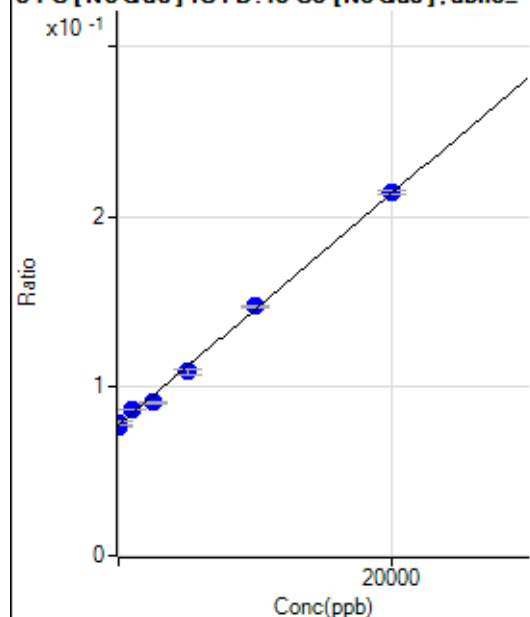
$$DL = 36.74$$

$$BEC = 73.93$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	-168.912	252523.59	0.0759	P	1.3
2	☐	0.000	168.912	253594.84	0.0782	P	2.3
3	☐	1000.000	1302.242	277479.04	0.0860	P	0.8
4	☐	2500.000	1923.489	270524.07	0.0902	P	1.1
5	☐	5000.000	4608.971	307403.81	0.1085	P	2.8
6	☐	10000.000	10247.722	409845.44	0.1471	P	1.2
7	☐	20000.000	20030.848	604968.53	0.2139	P	1.1
8	☐			207828.40	0.0755	P	4.9

$$y = 6.8306E-006 * x + 0.0771$$

$$R = 0.9990$$

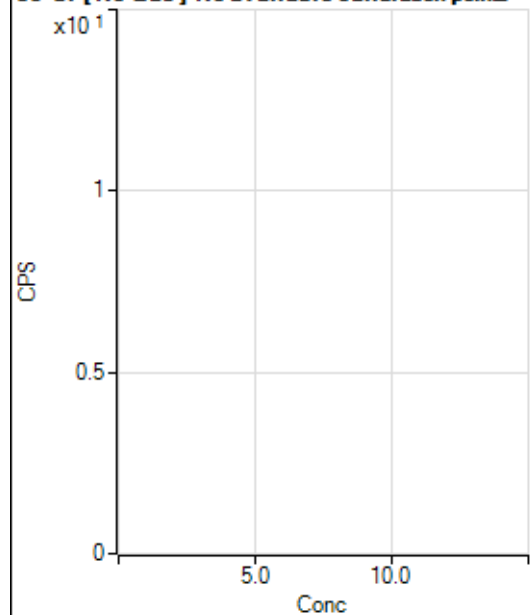
$$DL = 616$$

$$BEC = 1.128E+04$$

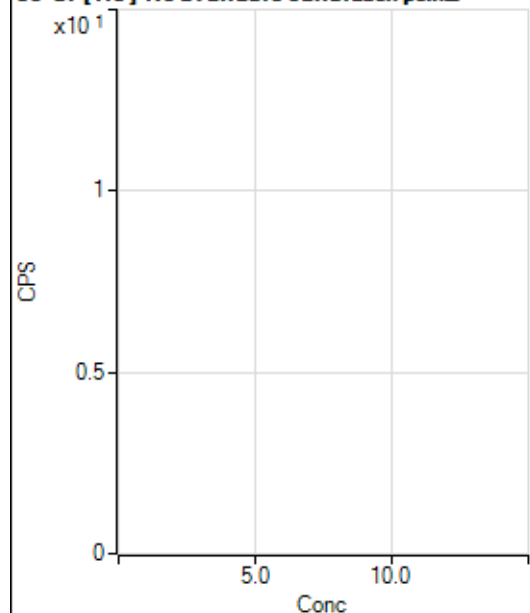
Weight: <None>

Min Conc: 0

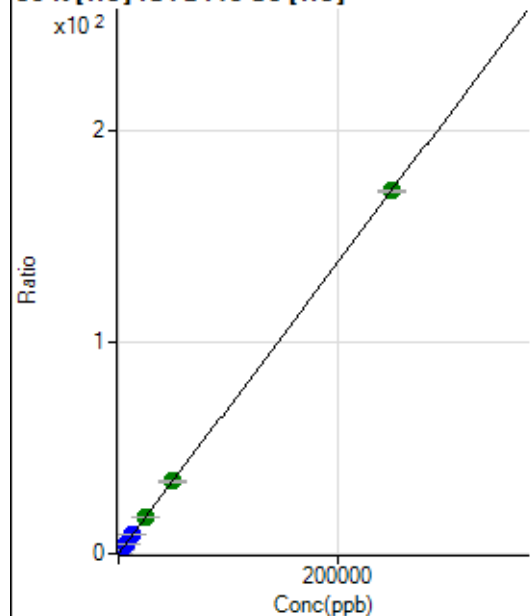
35 Cl [No Gas] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			129487.65		P	4.6
2	☐			126886.03		P	3.6
3	☐			142126.50		P	4.4
4	☐			134263.71		P	3.2
5	☐			126187.56		P	3.0
6	☐			127496.18		P	1.4
7	☐			142567.46		P	1.4
8	☐			115889.07		P	0.8

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			691.14		P	2.8
2	☐			740.02		P	2.8
3	☐			834.48		P	5.4
4	☐			772.25		P	2.4
5	☐			708.91		P	2.9
6	☐			797.81		P	3.4
7	☐			832.26		P	4.7
8	☐			798.92		P	8.8

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	5296.58	0.0535	P	3.8
2	☐	500.000	484.404	39975.29	0.3852	P	0.5
3	☐	2500.000	2561.614	176345.01	1.8077	P	1.6
4	☐	6250.000	6371.598	398659.70	4.4168	P	1.3
5	☐	12500.000	12666.543	756232.82	8.7276	P	1.8
6	☐	25000.000	25509.274	1503290.95	17.5224	A	1.0
7	☐	50000.000	50221.993	2937875.65	34.4457	A	2.7
8	☐	250000.00	249892.72	16545177.12	171.1812	A	0.8

$$y = 6.8480\text{E-}004 * x + 0.0535$$

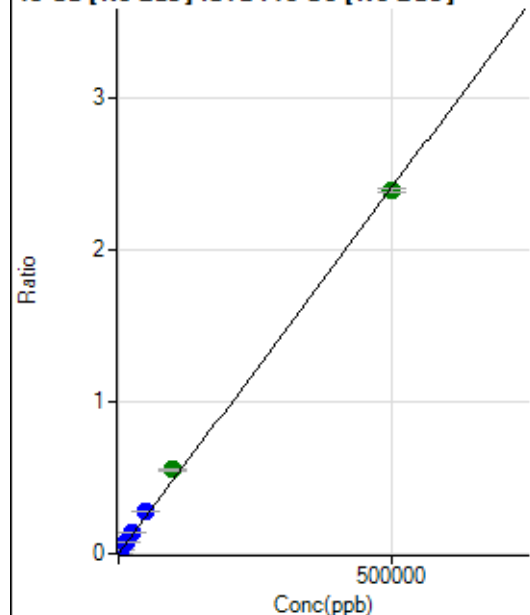
$$R = 1.0000$$

$$DL = 8.876$$

$$BEC = 78.12$$

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	143.34	0.0000	P	18.5
2	☐	500.000	496.086	7887.78	0.0024	P	6.3
3	☐	5000.000	5982.237	93234.25	0.0289	P	0.3
4	☐	12500.000	14679.895	212357.11	0.0708	P	1.5
5	☐	25000.000	29427.648	401952.72	0.1419	P	2.1
6	☐	50000.000	58239.796	782600.53	0.2808	P	1.7
7	☐	100000.00	114596.39	1562556.21	0.5525	A	2.1
8	☐	500000.00	495971.04	6581286.85	2.3911	A	1.2

$$y = 4.8210\text{E-}006 * x + 4.3132\text{E-}005$$

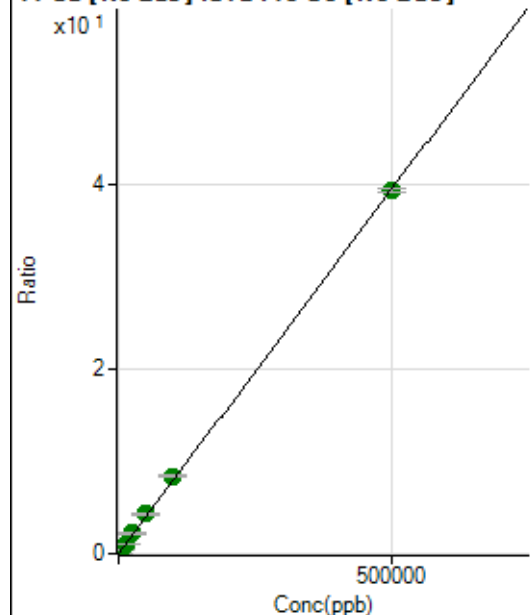
$$R = 0.9995$$

$$DL = 4.952$$

$$BEC = 8.947$$

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	13443.12	0.0040	P	1.3
2	☐	500.000	500.371	141017.12	0.0435	P	3.5
3	☐	5000.000	5718.490	1468926.04	0.4550	A	1.5
4	☐	12500.000	13947.433	3310640.30	1.1040	A	1.6
5	☐	25000.000	27722.263	6202742.82	2.1904	A	3.3
6	☐	50000.000	54478.814	11985067.04	4.3006	A	1.6
7	☐	100000.00	106681.51	23807105.20	8.4176	A	1.4
8	☐	500000.00	498036.33	108117056.1	39.2822	A	0.9

$$y = 7.8866\text{E-}005 * x + 0.0040$$

$$R = 0.9999$$

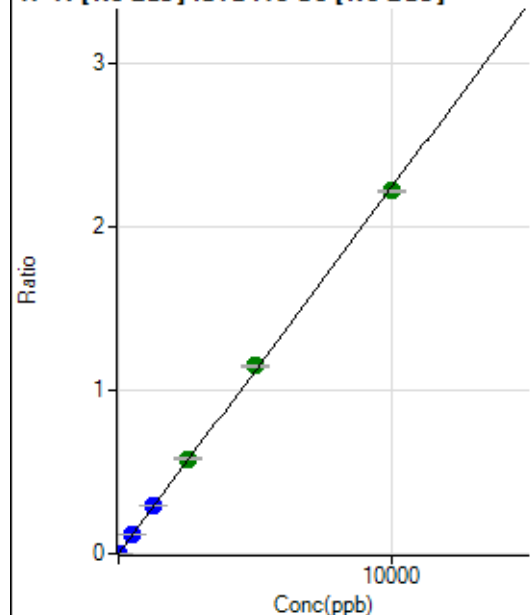
$$DL = 2.037$$

$$BEC = 51.24$$

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	46.67	0.0000	P	28.4
2	☐	5.000	5.111	3759.42	0.0012	P	7.2
3	☐	500.000	521.986	378045.55	0.1171	P	0.1
4	☐	1250.000	1299.537	874322.83	0.2916	P	1.4
5	☐	2500.000	2595.346	1648857.01	0.5823	A	3.4
6	☐	5000.000	5123.961	3203655.89	1.1496	A	1.5
7	☐	10000.000	9906.891	6286567.27	2.2226	A	0.7
8	☐			4896.83	0.0018	P	67.7

$$y = 2.2435E-004 * x + 1.4029E-005$$

$$R = 0.9998$$

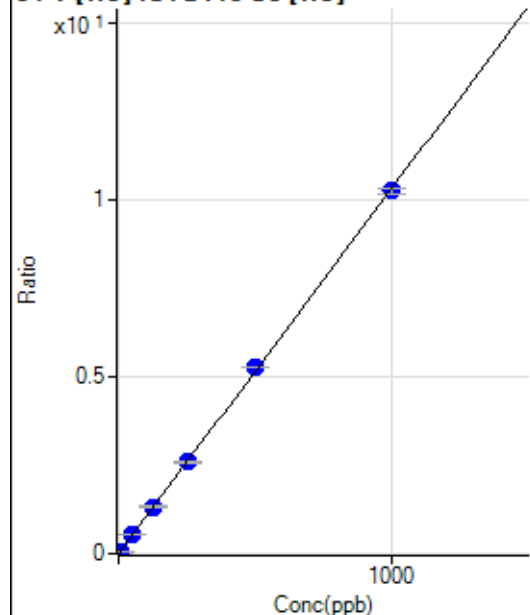
$$DL = 0.05337$$

$$BEC = 0.06253$$

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	4.44	0.0000	P	39.1
2	☐	5.000	5.155	5522.23	0.0532	P	1.9
3	☐	50.000	51.602	51933.72	0.5324	P	1.1
4	☐	125.000	128.772	119905.83	1.3285	P	1.8
5	☐	250.000	251.527	224846.39	2.5949	P	1.3
6	☐	500.000	509.864	451291.94	5.2599	P	0.5
7	☐	1000.000	994.134	874816.20	10.2558	P	1.7
8	☐			371.12	0.0038	P	14.6

$$y = 0.0103 * x + 4.4393E-005$$

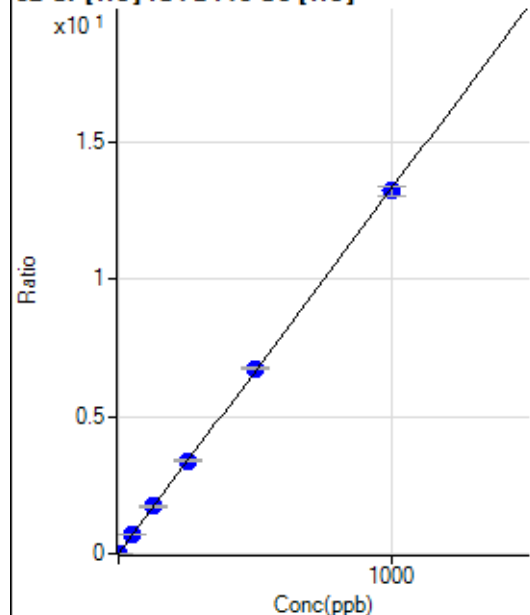
$$R = 0.9999$$

$$DL = 0.005045$$

$$BEC = 0.004303$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	651.13	0.0066	P	4.2
2	☐	2.000	1.984	3411.55	0.0329	P	7.8
3	☐	50.000	52.009	67953.67	0.6966	P	1.1
4	☐	125.000	129.923	156175.65	1.7304	P	2.0
5	☐	250.000	255.109	293861.46	3.3914	P	1.5
6	☐	500.000	507.893	578701.84	6.7454	P	1.3
7	☐	1000.000	994.061	1125524.77	13.1960	P	2.4
8	☐			28057.54	0.2903	P	1.0

$$y = 0.0133 * x + 0.0066$$

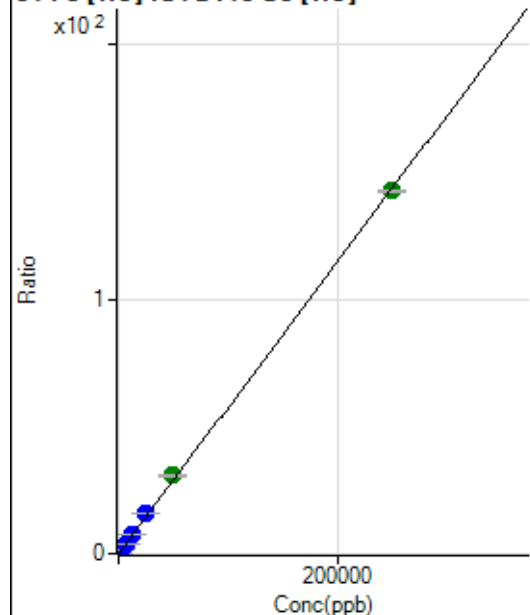
$$R = 0.9999$$

$$DL = 0.06276$$

$$BEC = 0.4953$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	176.67	0.0018	P	11.3
2	☐	50.000	54.126	3400.44	0.0328	P	0.8
3	☐	2500.000	2760.942	154378.22	1.5827	P	1.9
4	☐	6250.000	6900.448	356769.82	3.9530	P	1.9
5	☐	12500.000	13556.025	672754.43	7.7640	P	1.4
6	☐	25000.000	27180.279	1335545.05	15.5654	P	0.6
7	☐	50000.000	53877.716	2631864.53	30.8525	A	1.7
8	☐	250000.00	248934.75	13777334.38	142.5432	A	0.7

$$y = 5.7261E-004 * x + 0.0018$$

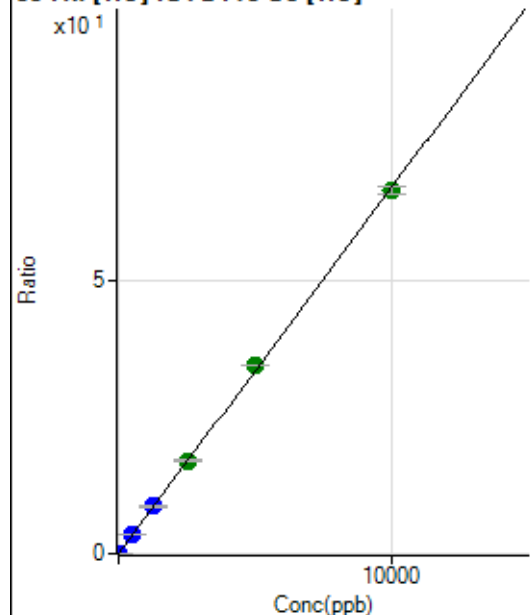
$$R = 0.9999$$

$$DL = 1.054$$

$$BEC = 3.105$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	30.00	0.0003	P	35.4
2	☐	1.000	0.970	706.69	0.0068	P	14.0
3	☐	500.000	517.141	337862.37	3.4634	P	0.3
4	☐	1250.000	1290.649	780120.07	8.6434	P	1.6
5	☐	2500.000	2547.691	1478445.79	17.0614	A	1.0
6	☐	5000.000	5140.232	2953283.04	34.4228	A	0.7
7	☐	10000.000	9912.023	5661985.54	66.3779	A	2.1
8	☐			5345.49	0.0553	P	3.0

$$y = 0.0067 * x + 3.0494E-004$$

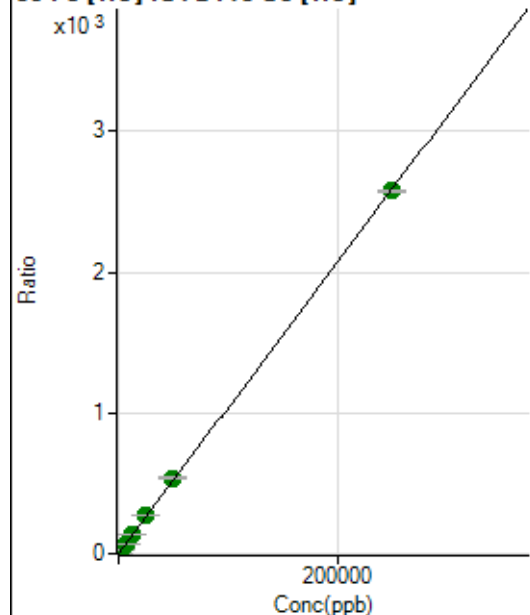
$$R = 0.9998$$

$$DL = 0.0484$$

$$BEC = 0.04554$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1095.61	0.0111	P	5.1
2	☐	50.000	52.346	57295.48	0.5522	P	2.0
3	☐	2500.000	2775.632	2800371.28	28.7058	A	1.0
4	☐	6250.000	6763.201	6310661.78	69.9296	A	2.8
5	☐	12500.000	13404.340	12009748.71	138.5861	A	0.9
6	☐	25000.000	26794.371	23765654.65	277.0133	A	0.9
7	☐	50000.000	52018.932	45873958.76	537.7867	A	1.6
8	☐	250000.00	249355.97	249142667.4	2.577.871	A	0.4

$$y = 0.0103 * x + 0.0111$$

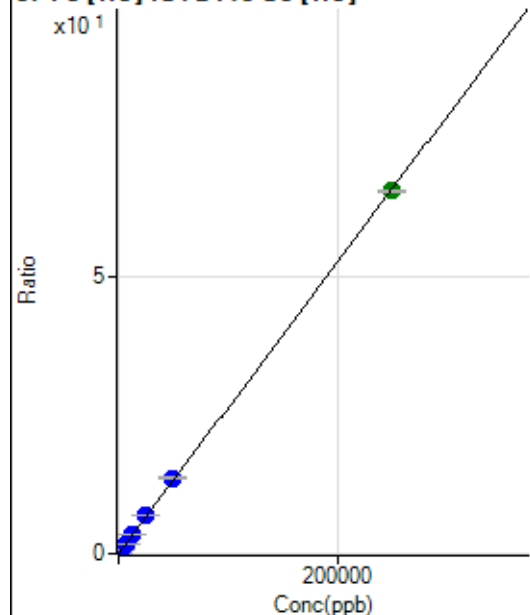
$$R = 1.0000$$

$$DL = 0.1629$$

$$BEC = 1.071$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	66.66	0.0007	P	26.4
2	☐	50.000	54.578	1556.77	0.0150	P	6.1
3	☐	2500.000	2723.300	69824.28	0.7158	P	0.9
4	☐	6250.000	6801.590	161267.87	1.7868	P	1.6
5	☐	12500.000	13500.708	307241.01	3.5459	P	1.8
6	☐	25000.000	26879.055	605622.68	7.0591	P	0.9
7	☐	50000.000	52179.072	1168783.56	13.7028	P	2.2
8	☐	250000.00	249310.22	6327063.80	65.4691	A	0.9

$$y = 2.6260\text{E-}004 * x + 6.7709\text{E-}004$$

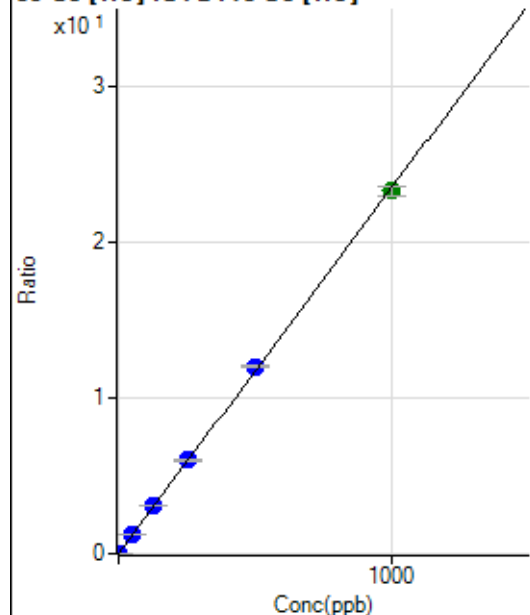
$$R = 0.9999$$

$$DL = 2.043$$

$$BEC = 2.578$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	71.11	0.0007	P	15.4
2	☐	1.000	1.030	2588.03	0.0249	P	7.1
3	☐	50.000	52.617	120808.66	1.2384	P	0.2
4	☐	125.000	130.751	277683.47	3.0763	P	1.4
5	☐	250.000	256.013	521869.58	6.0228	P	1.4
6	☐	500.000	511.143	1031539.90	12.0241	P	1.4
7	☐	1000.000	992.075	1990369.73	23.3368	A	2.8
8	☐			5742.32	0.0594	P	3.1

$$y = 0.0235 * x + 7.1856\text{E-}004$$

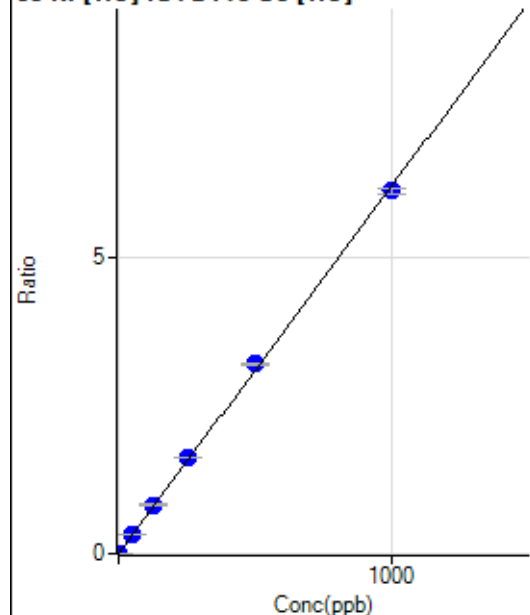
$$R = 0.9999$$

$$DL = 0.01414$$

$$BEC = 0.03055$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	45.56	0.0005	P	16.2
2	☐	1.000	1.134	778.92	0.0075	P	6.0
3	☐	50.000	53.746	32651.92	0.3347	P	1.5
4	☐	125.000	133.233	74824.22	0.8290	P	1.6
5	☐	250.000	260.873	140629.45	1.6228	P	0.7
6	☐	500.000	516.771	275759.02	3.2142	P	0.7
7	☐	1000.000	987.680	523967.06	6.1427	P	1.8
8	☐			8334.75	0.0862	P	4.0

$$y = 0.0062 * x + 4.5884E-004$$

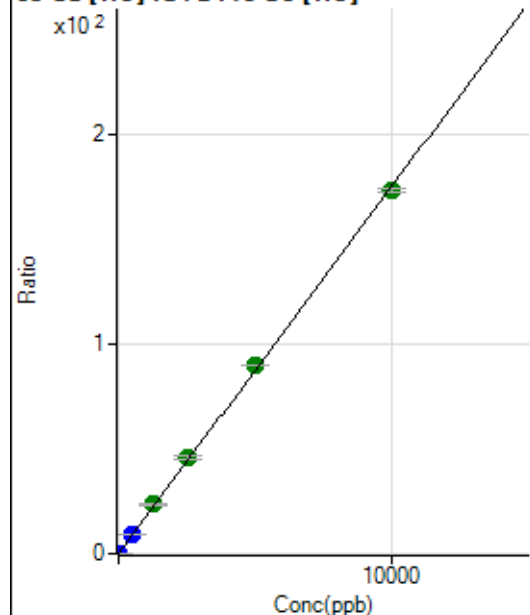
$$R = 0.9997$$

$$DL = 0.03579$$

$$BEC = 0.07378$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	546.68	0.0055	P	6.0
2	☐	2.000	2.004	4206.22	0.0405	P	4.9
3	☐	500.000	534.777	912474.73	9.3549	P	1.4
4	☐	1250.000	1342.508	2118901.29	23.4764	A	1.8
5	☐	2500.000	2629.339	3982961.74	45.9739	A	2.7
6	☐	5000.000	5135.267	7703639.26	89.7847	A	0.5
7	☐	10000.000	9886.730	14746224.92	172.8538	A	1.0
8	☐			4879.77	0.0505	P	2.6

$$y = 0.0175 * x + 0.0055$$

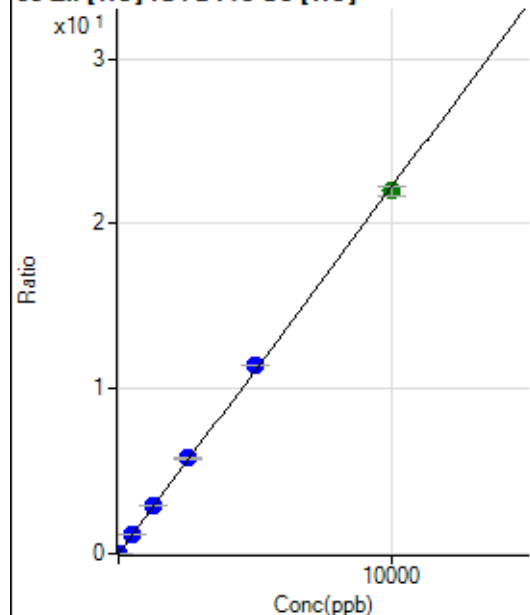
$$R = 0.9998$$

$$DL = 0.05698$$

$$BEC = 0.3151$$

Weight: <None>

Min Conc: 0

⁶⁶Zn [He] ISTD: ⁴⁵Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	197.78	0.0020	P	18.6
2	☐	2.000	5.257	1418.97	0.0137	P	8.1
3	☐	500.000	535.893	116347.46	1.1928	P	1.2
4	☐	1250.000	1324.925	265909.26	2.9461	P	1.6
5	☐	2500.000	2596.119	500013.43	5.7709	P	1.9
6	☐	5000.000	5136.022	979378.20	11.4148	P	0.5
7	☐	10000.000	9896.799	1875843.62	21.9938	A	2.8
8	☐			2732.52	0.0283	P	2.3

$$y = 0.0022 * x + 0.0020$$

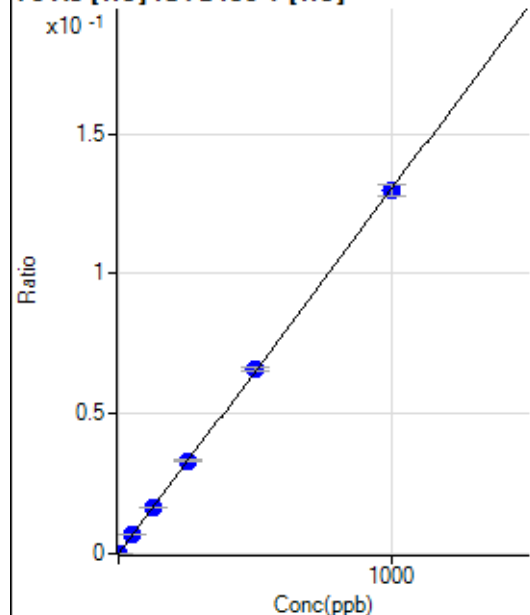
$$R = 0.9998$$

$$DL = 0.5022$$

$$BEC = 0.9004$$

Weight: <None>

Min Conc: 0

⁷⁵As [He] ISTD: ⁸⁹Y [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2.22	0.0000	P	173.
2	☐	1.000	0.959	112.22	0.0001	P	22.3
3	☐	50.000	51.693	5634.52	0.0067	P	2.7
4	☐	125.000	126.017	12926.02	0.0164	P	1.1
5	☐	250.000	253.938	24971.10	0.0331	P	1.8
6	☐	500.000	507.640	49330.38	0.0661	P	2.3
7	☐	1000.000	994.984	94399.15	0.1296	P	3.0
8	☐			77.78	0.0001	P	26.8

$$y = 1.3025E-004 * x + 2.5185E-006$$

$$R = 0.9999$$

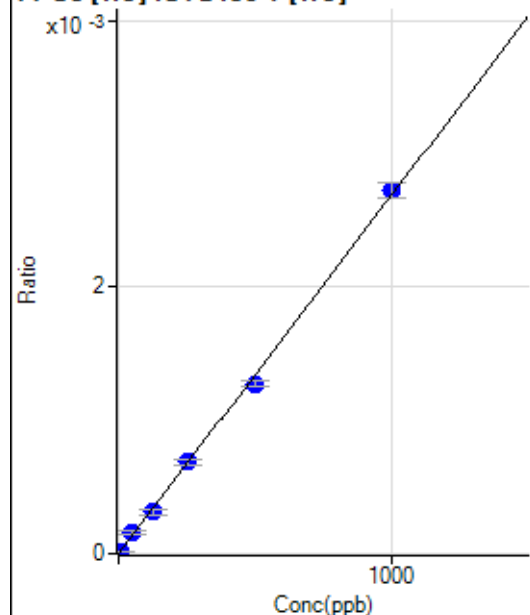
$$DL = 0.1005$$

$$BEC = 0.01934$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	4.697	11.11	0.0000	P	69.5
3	☐	50.000	57.718	130.00	0.0002	P	16.2
4	☐	125.000	116.435	246.67	0.0003	P	13.5
5	☐	250.000	255.971	520.02	0.0007	P	6.3
6	☐	500.000	473.858	951.15	0.0013	P	4.0
7	☐	1000.000	1012.265	1984.60	0.0027	P	4.2
8	☐			12.22	0.0000	P	41.2

$$y = 2.6909\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9994$$

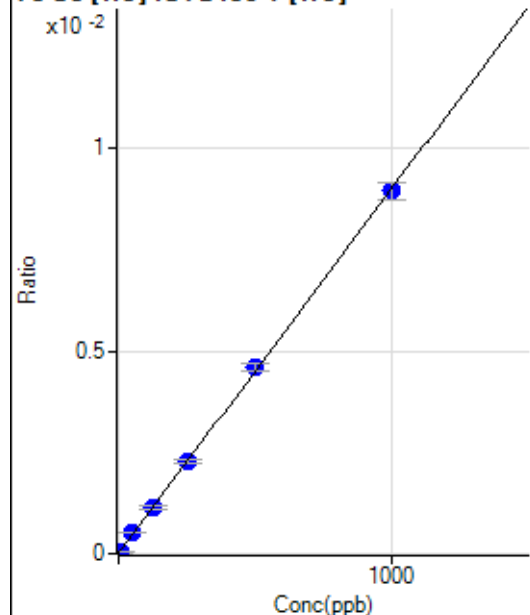
$$DL = 0$$

$$BEC = 0$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	12.22	0.0000	P	39.3
2	☐	5.000	3.861	43.33	0.0000	P	30.4
3	☐	50.000	56.992	441.12	0.0005	P	3.0
4	☐	125.000	125.725	902.26	0.0011	P	6.1
5	☐	250.000	249.784	1707.90	0.0023	P	4.5
6	☐	500.000	510.660	3439.35	0.0046	P	3.8
7	☐	1000.000	994.290	6526.02	0.0090	P	4.4
8	☐			56.67	0.0001	P	15.9

$$y = 8.9976\text{E-}006 * x + 1.4461\text{E-}005$$

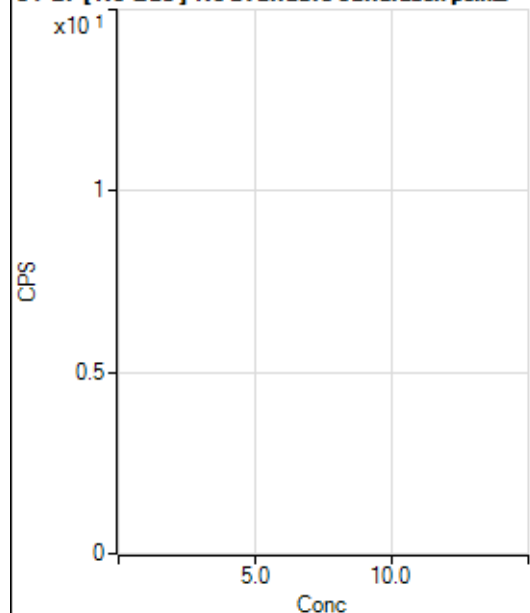
$$R = 0.9999$$

$$DL = 1.893$$

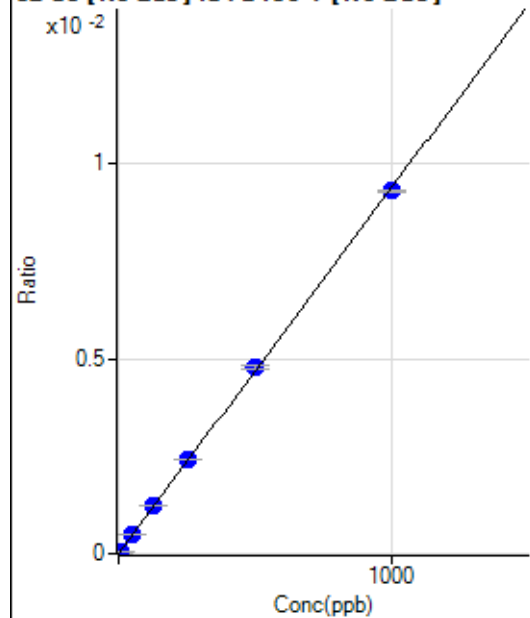
$$BEC = 1.607$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2001.27		P	5.7
2	☐			1997.94		P	0.7
3	☐			1857.92		P	2.9
4	☐			1607.89		P	4.5
5	☐			1512.32		P	1.5
6	☐			1558.99		P	4.5
7	☐			1674.56		P	6.9
8	☐			2959.24		P	10.4

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	-35.56	0.0000	P	-79.
2	☐	5.000	5.131	401.13	0.0000	P	11.6
3	☐	50.000	53.341	4500.81	0.0005	P	1.1
4	☐	125.000	131.386	10455.19	0.0012	P	1.8
5	☐	250.000	255.773	19523.89	0.0024	P	0.6
6	☐	500.000	511.584	38525.50	0.0048	P	2.1
7	☐	1000.000	991.799	74805.63	0.0093	P	0.5
8	☐			410.01	0.0001	P	10.5

$$y = 9.3910E-006 * x - 3.8490E-006$$

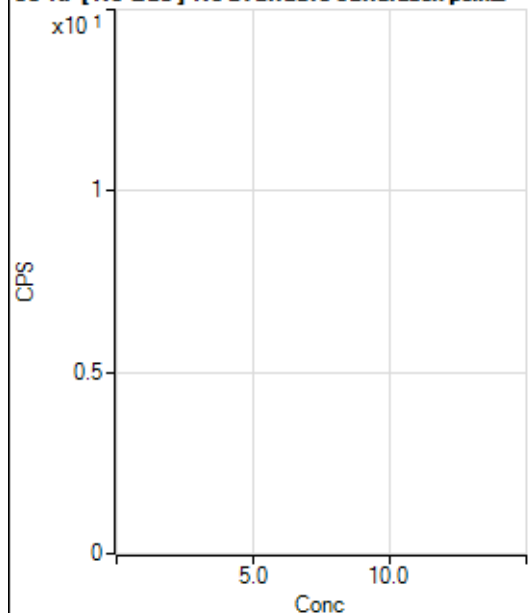
$$R = 0.9999$$

$$DL = 0.9811$$

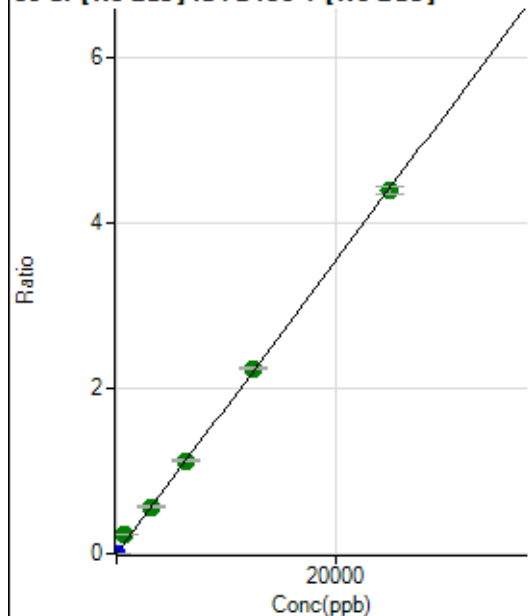
$$BEC = -0.4099$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			183.34		P	10.9
2	☐			164.45		P	2.3
3	☐			145.56		P	8.7
4	☐			127.78		P	13.1
5	☐			123.34		P	14.3
6	☐			134.45		P	22.5
7	☐			133.34		P	9.0
8	☐			177.78		P	4.3

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	320.01	0.0000	P	7.9
2	☐	1.000	1.001	1909.04	0.0002	P	4.2
3	☐	625.000	1310.212	2098813.06	0.2318	A	1.1
4	☐	3125.000	3205.818	4820780.38	0.5672	A	1.5
5	☐	6250.000	6341.294	9131034.17	1.1219	A	2.0
6	☐	12500.000	12701.844	18035212.65	2.2471	A	1.4
7	☐	25000.000	24849.022	35318451.70	4.3961	A	2.1
8	☐			24316.87	0.0030	P	74.2

$$y = 1.7691E-004 * x + 3.4542E-005$$

$$R = 0.9996$$

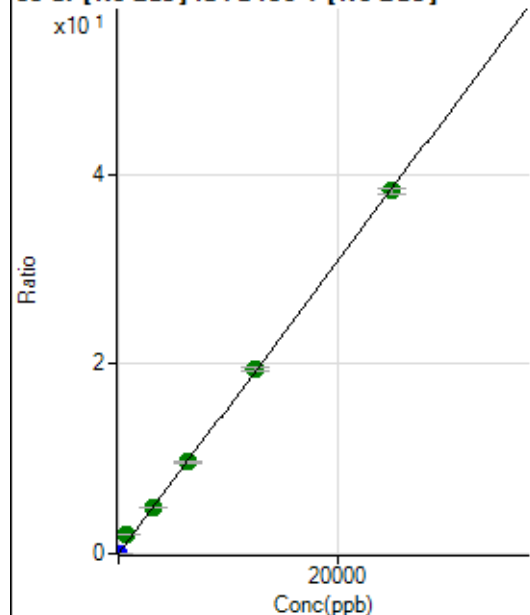
$$DL = 0.04621$$

$$BEC = 0.1952$$

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	503.35	0.0001	P	10.6
2	☐	1.000	1.000	14380.82	0.0016	P	3.4
3	☐	625.000	1282.232	17874100.57	1.9741	A	0.2
4	☐	3125.000	3159.116	41335188.27	4.8638	A	2.2
5	☐	6250.000	6315.410	79139428.82	9.7231	A	2.0
6	☐	12500.000	12672.898	156591611.0	19.5110	A	1.6
7	☐	25000.000	24876.503	307721828.7	38.2993	A	1.3
8	☐			216168.13	0.0268	P	72.1

$$y = 0.0015 * x + 5.4346E-005$$

$$R = 0.9997$$

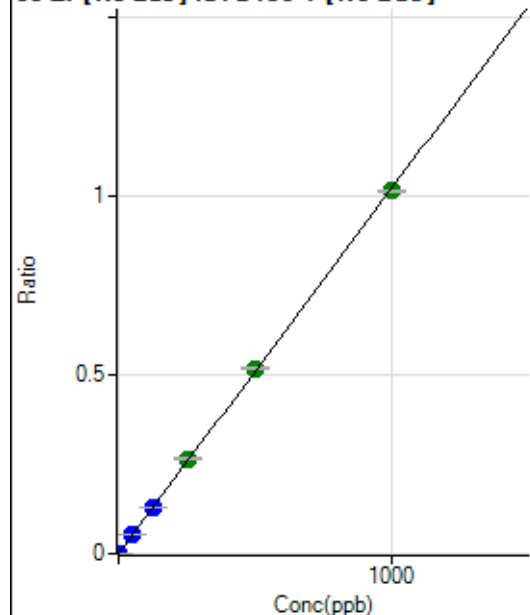
$$DL = 0.01124$$

$$BEC = 0.0353$$

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	306.67	0.0000	P	9.1
2	☐	1.000	0.953	9063.02	0.0010	P	4.1
3	☐	50.000	50.802	469506.22	0.0519	P	0.8
4	☐	125.000	127.613	1106719.58	0.1302	P	1.8
5	☐	250.000	258.534	2146891.63	0.2638	A	1.8
6	☐	500.000	507.267	4153362.75	0.5175	A	1.1
7	☐	1000.000	993.866	8146375.09	1.0139	A	0.8
8	☐			8404.39	0.0010	P	54.1

$$y = 0.0010 * x + 3.3116E-005$$

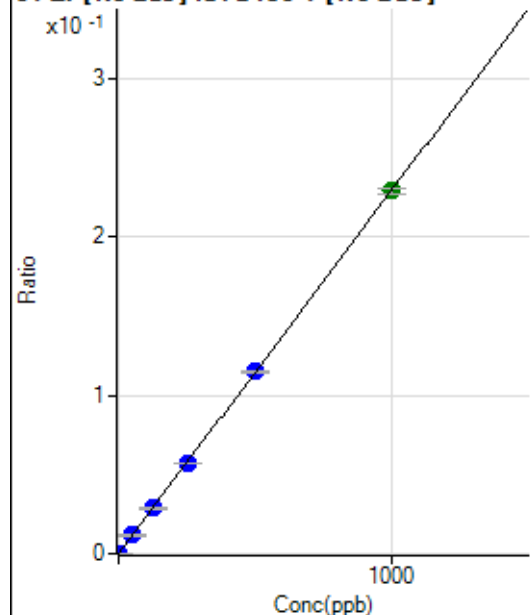
$$R = 0.9999$$

$$DL = 0.008854$$

$$BEC = 0.03246$$

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	54.44	0.0000	P	15.5
2	☐	1.000	0.962	2039.06	0.0002	P	3.7
3	☐	50.000	50.313	104340.20	0.0115	P	1.2
4	☐	125.000	125.988	245180.91	0.0289	P	2.6
5	☐	250.000	248.314	462826.90	0.0569	P	0.7
6	☐	500.000	502.181	922791.11	0.1150	P	0.8
7	☐	1000.000	999.192	1837974.36	0.2288	A	1.5
8	☐			1851.29	0.0002	P	55.7

$$y = 2.2895E-004 * x + 5.8778E-006$$

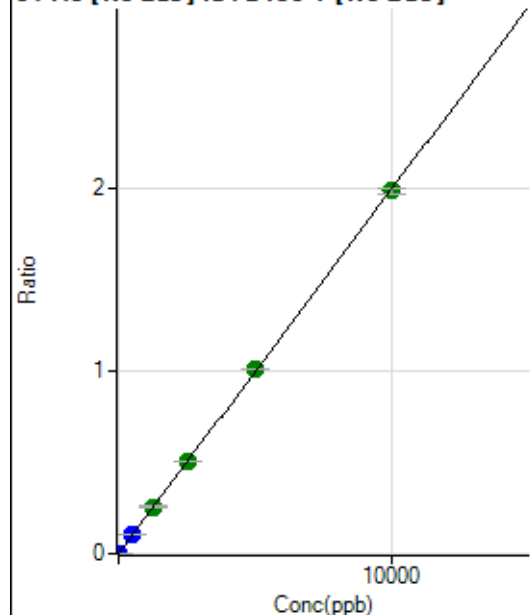
$$R = 1.0000$$

$$DL = 0.01194$$

$$BEC = 0.02567$$

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	143.34	0.0000	P	1.9
2	☐	5.000	5.869	10693.08	0.0012	P	3.5
3	☐	500.000	512.649	925529.37	0.1022	P	0.7
4	☐	1250.000	1281.157	2170844.50	0.2555	A	3.2
5	☐	2500.000	2532.785	4111059.83	0.5050	A	0.8
6	☐	5000.000	5061.727	8099768.77	1.0092	A	0.7
7	☐	10000.000	9956.413	15949260.60	1.9851	A	1.9
8	☐			16069.80	0.0020	P	54.3

$$y = 1.9938E-004 * x + 1.5473E-005$$

$$R = 1.0000$$

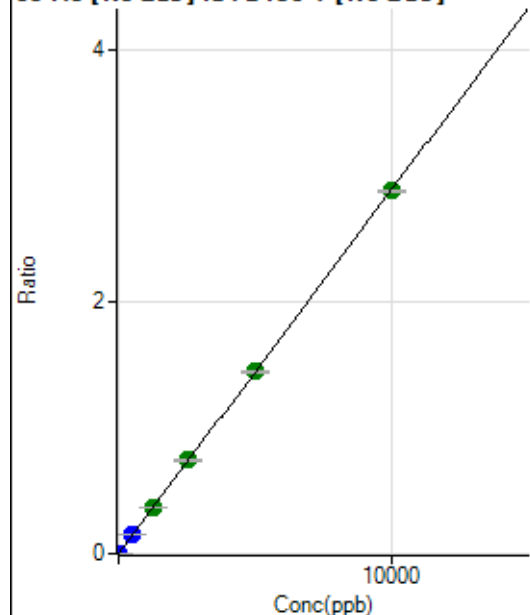
$$DL = 0.004459$$

$$BEC = 0.07761$$

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	37.78	0.0000	P	21.7
2	☐	5.000	4.881	12774.86	0.0014	P	2.0
3	☐	500.000	509.570	1334579.10	0.1474	P	0.7
4	☐	1250.000	1275.614	3136091.13	0.3690	A	2.1
5	☐	2500.000	2565.026	6038812.41	0.7420	A	2.1
6	☐	5000.000	5016.352	11645466.91	1.4510	A	1.2
7	☐	10000.000	9971.887	23176572.43	2.8845	A	0.4
8	☐			22616.42	0.0028	P	52.2

$$y = 2.8926\text{E-}004 * x + 4.0758\text{E-}006$$

$$R = 1.0000$$

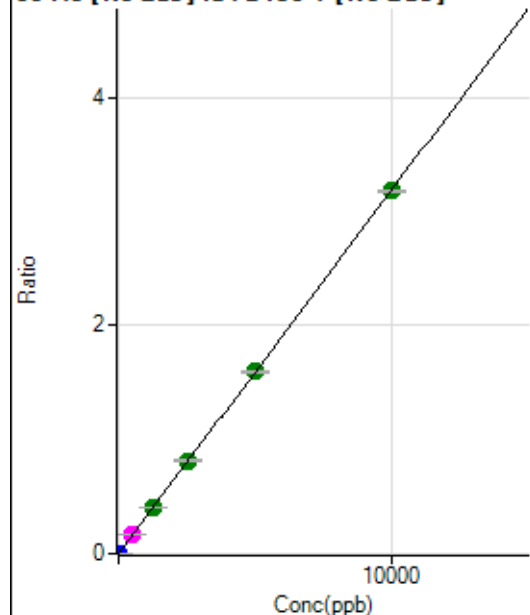
$$DL = 0.009184$$

$$BEC = 0.01409$$

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	95.56	0.0000	P	5.3
2	☐	5.000	4.922	14242.97	0.0016	P	3.9
3	☐	500.000	505.517	1459190.31	0.1612	M	0.6
4	☐	1250.000	1269.717	3440020.02	0.4048	A	2.9
5	☐	2500.000	2549.035	6614463.17	0.8126	A	1.3
6	☐	5000.000	5007.226	12811153.56	1.5963	A	1.2
7	☐	10000.000	9981.388	25567233.23	3.1820	A	0.6
8	☐			24963.31	0.0031	P	48.1

$$y = 3.1879\text{E-}004 * x + 1.0316\text{E-}005$$

$$R = 1.0000$$

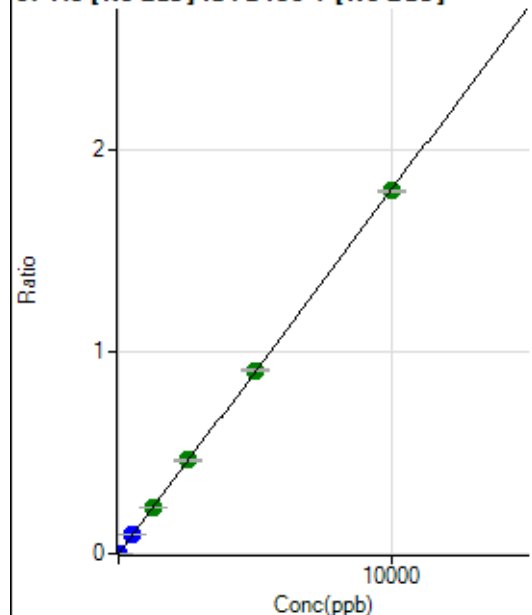
$$DL = 0.00513$$

$$BEC = 0.03236$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	21.11	0.0000	P	24.3
2	☐	5.000	4.974	8094.65	0.0009	P	3.9
3	☐	500.000	510.767	832429.41	0.0919	P	0.2
4	☐	1250.000	1272.492	1946785.35	0.2291	A	1.6
5	☐	2500.000	2570.322	3765574.63	0.4627	A	2.0
6	☐	5000.000	5027.214	7262558.02	0.9049	A	0.8
7	☐	10000.000	9965.463	14413985.34	1.7938	A	0.8
8	☐			14272.67	0.0018	P	51.3

$$y = 1.8000\text{E-}004 * x + 2.2797\text{E-}006$$

$$R = 1.0000$$

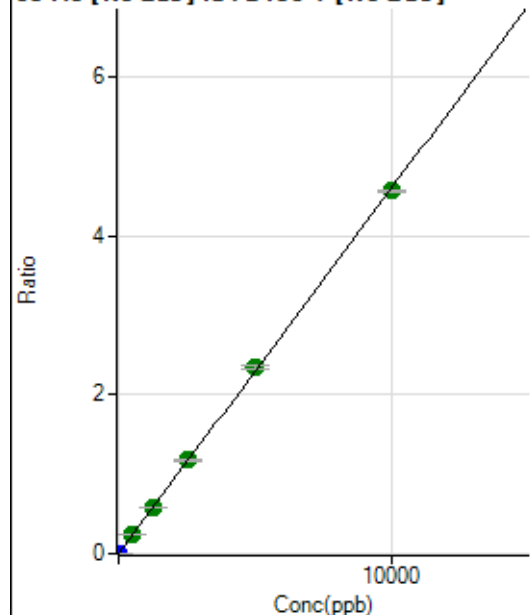
$$DL = 0.009229$$

$$BEC = 0.01266$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	76.67	0.0000	P	26.2
2	☐	5.000	4.936	20523.08	0.0023	P	4.5
3	☐	500.000	520.248	2164281.01	0.2390	A	0.7
4	☐	1250.000	1279.563	4997288.78	0.5879	A	1.0
5	☐	2500.000	2570.327	9611927.56	1.1809	A	1.6
6	☐	5000.000	5098.190	18798089.72	2.3423	A	1.4
7	☐	10000.000	9928.615	36652380.29	4.5615	A	0.3
8	☐			36480.08	0.0045	P	52.9

$$y = 4.5943\text{E-}004 * x + 8.2726\text{E-}006$$

$$R = 0.9999$$

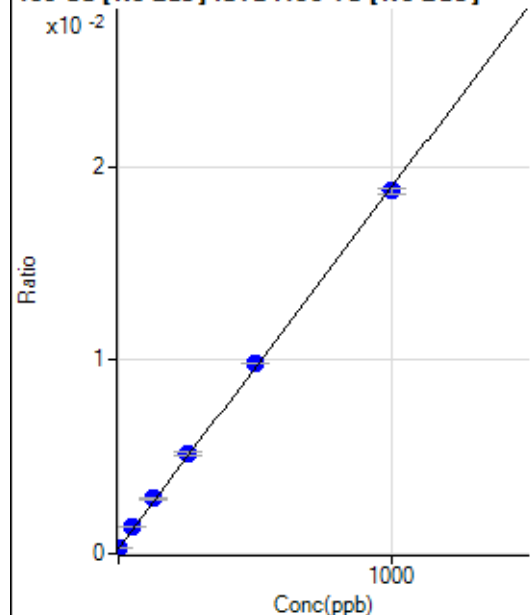
$$DL = 0.01416$$

$$BEC = 0.01801$$

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	2320.22	0.0003	P	3.3
2	☐	1.000	0.639	2372.46	0.0003	P	3.6
3	☐	50.000	55.595	9741.30	0.0014	P	1.4
4	☐	125.000	135.227	19529.50	0.0028	P	1.1
5	☐	250.000	260.766	34808.43	0.0052	P	5.4
6	☐	500.000	511.638	66327.49	0.0098	P	0.7
7	☐	1000.000	989.932	126623.78	0.0188	P	1.7
8	☐			2071.29	0.0003	P	5.7

$$y = 1.8622\text{E-}005 * x + 3.2124\text{E-}004$$

$$R = 0.9998$$

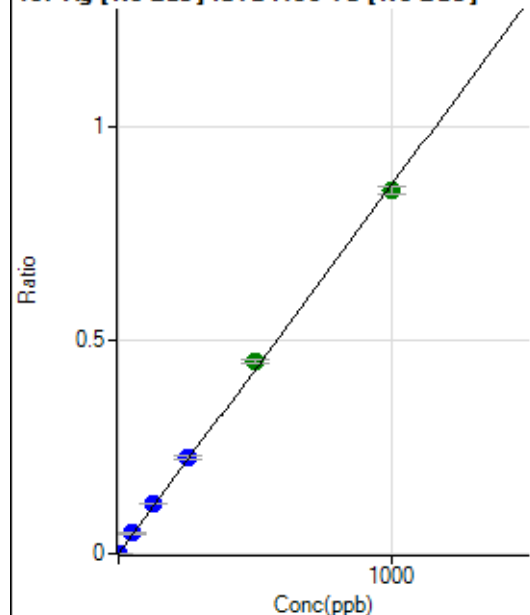
$$DL = 1.725$$

$$BEC = 17.25$$

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	67.78	0.0000	P	32.2
2	☐	1.000	1.029	6380.43	0.0009	P	2.2
3	☐	50.000	54.817	339571.78	0.0473	P	1.2
4	☐	125.000	134.918	800441.13	0.1164	P	1.7
5	☐	250.000	262.079	1520790.03	0.2261	P	3.5
6	☐	500.000	522.170	3033282.39	0.4504	A	1.4
7	☐	1000.000	984.414	5732790.82	0.8492	A	2.0
8	☐			2020.19	0.0003	P	42.0

$$y = 8.6259\text{E-}004 * x + 9.3877\text{E-}006$$

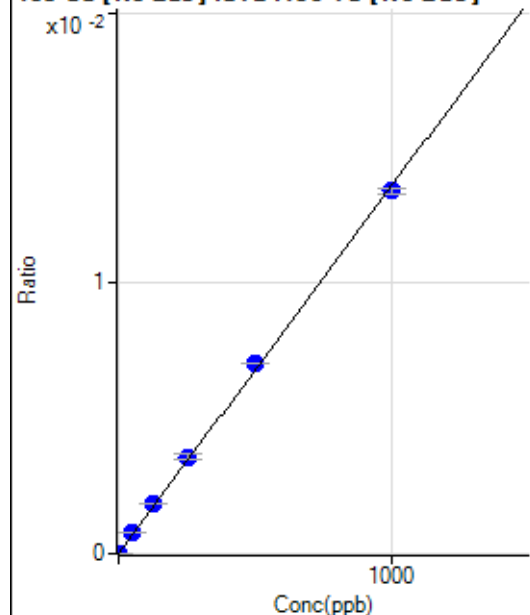
$$R = 0.9995$$

$$DL = 0.01051$$

$$BEC = 0.01088$$

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	10.00	0.0000	P	33.1
2	☐	1.000	1.035	110.00	0.0000	P	8.6
3	☐	50.000	56.379	5511.15	0.0008	P	2.4
4	☐	125.000	136.173	12739.34	0.0019	P	3.1
5	☐	250.000	263.352	24080.01	0.0036	P	4.6
6	☐	500.000	516.353	47270.71	0.0070	P	0.3
7	☐	1000.000	986.770	90554.97	0.0134	P	1.3
8	☐			130.00	0.0000	P	32.7

$$y = 1.3591\text{E-}005 * x + 1.3838\text{E-}006$$

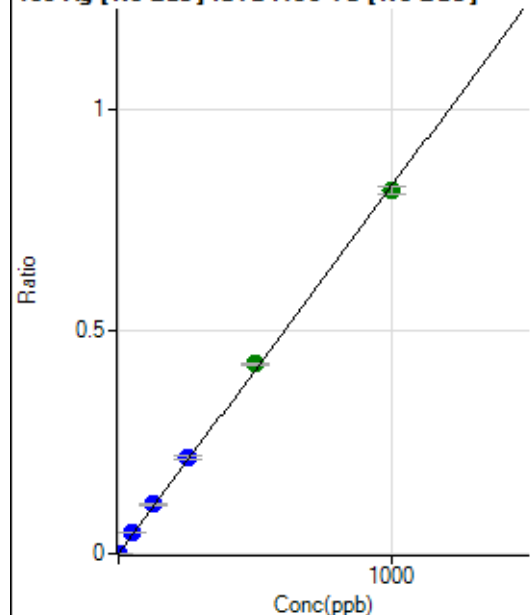
$$R = 0.9997$$

$$DL = 0.1012$$

$$BEC = 0.1018$$

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	22.22	0.0000	P	60.8
2	☐	1.000	1.048	6188.11	0.0009	P	3.1
3	☐	50.000	55.165	327503.56	0.0456	P	0.6
4	☐	125.000	134.500	764746.64	0.1112	P	1.7
5	☐	250.000	262.071	1456815.72	0.2167	P	5.2
6	☐	500.000	516.077	2873457.11	0.4267	A	0.8
7	☐	1000.000	987.498	5511497.63	0.8164	A	2.0
8	☐			1893.51	0.0003	P	42.2

$$y = 8.2674\text{E-}004 * x + 3.0793\text{E-}006$$

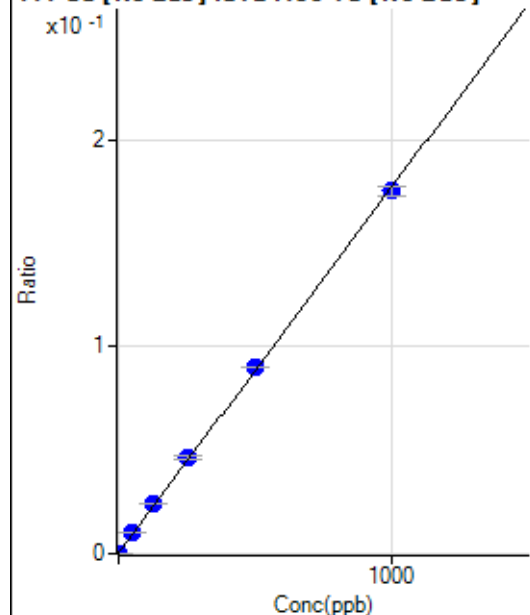
$$R = 0.9997$$

$$DL = 0.006799$$

$$BEC = 0.003725$$

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	1630.49	0.0002	P	3.5
2	☐	1.000	1.154	3058.26	0.0004	P	3.8
3	☐	50.000	54.970	71366.64	0.0099	P	1.7
4	☐	125.000	134.557	165112.24	0.0240	P	1.2
5	☐	250.000	263.188	314381.63	0.0467	P	3.9
6	☐	500.000	509.563	607987.77	0.0903	P	0.4
7	☐	1000.000	990.478	1183146.59	0.1753	P	2.7
8	☐			2795.67	0.0004	P	23.4

$$y = 1.7673\text{E-}004 * x + 2.2574\text{E-}004$$

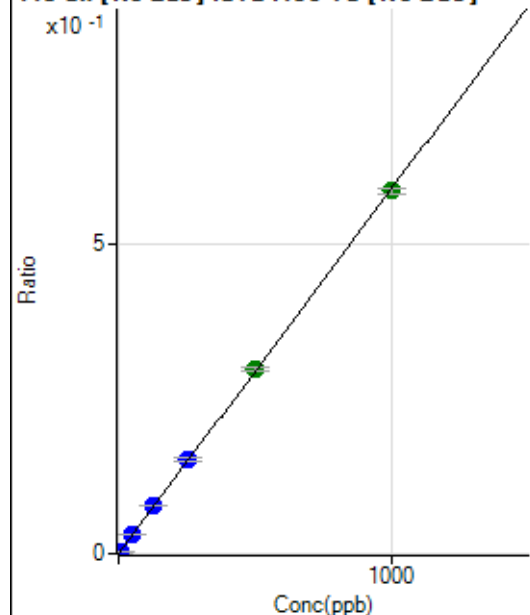
$$R = 0.9998$$

$$DL = 0.1354$$

$$BEC = 1.277$$

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	452.23	0.0001	P	7.2
2	☐	5.000	5.174	22155.82	0.0031	P	1.7
3	☐	50.000	52.977	224755.19	0.0313	P	1.4
4	☐	125.000	130.663	530368.14	0.0771	P	0.8
5	☐	250.000	256.867	1019131.91	0.1515	P	4.3
6	☐	500.000	505.823	2009178.88	0.2983	A	1.3
7	☐	1000.000	994.514	3959743.31	0.5865	A	1.5
8	☐			5380.12	0.0008	P	34.1

$$y = 5.8969\text{E-}004 * x + 6.2602\text{E-}005$$

$$R = 0.9999$$

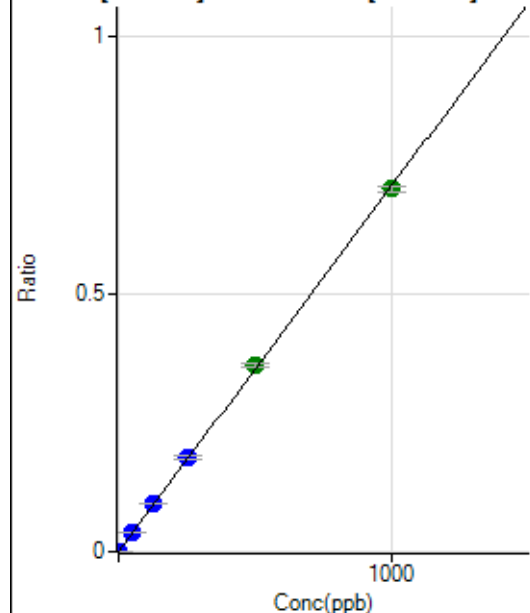
$$DL = 0.02306$$

$$BEC = 0.1062$$

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	24.44	0.0000	P	20.7
2	☐	2.000	2.049	10357.33	0.0015	P	1.8
3	☐	50.000	52.184	265606.13	0.0370	P	1.8
4	☐	125.000	130.461	636042.52	0.0925	P	1.4
5	☐	250.000	257.818	1229226.89	0.1828	P	4.1
6	☐	500.000	509.903	2434110.14	0.3615	A	1.6
7	☐	1000.000	992.302	4748989.51	0.7034	A	1.6
8	☐			5442.44	0.0008	P	48.3

$$y = 7.0887\text{E-}004 * x + 3.3832\text{E-}006$$

$$R = 0.9999$$

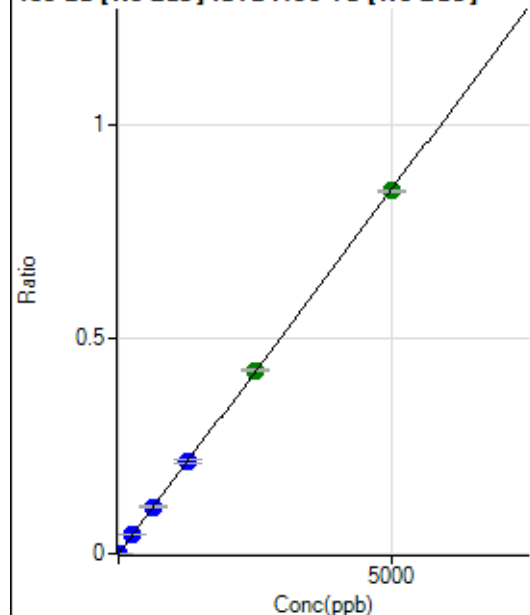
$$DL = 0.002957$$

$$BEC = 0.004773$$

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	72.22	0.0000	P	27.7
2	☐	10.000	10.099	12250.08	0.0017	P	3.6
3	☐	250.000	258.428	314654.80	0.0438	P	1.1
4	☐	625.000	643.856	750806.41	0.1092	P	1.3
5	☐	1250.000	1274.977	1453635.87	0.2162	P	4.8
6	☐	2500.000	2517.492	2874432.59	0.4268	A	0.8
7	☐	5000.000	4982.231	5703791.03	0.8447	A	0.6
8	☐			6099.45	0.0009	P	43.2

$$y = 1.6954\text{E-}004 * x + 9.9977\text{E-}006$$

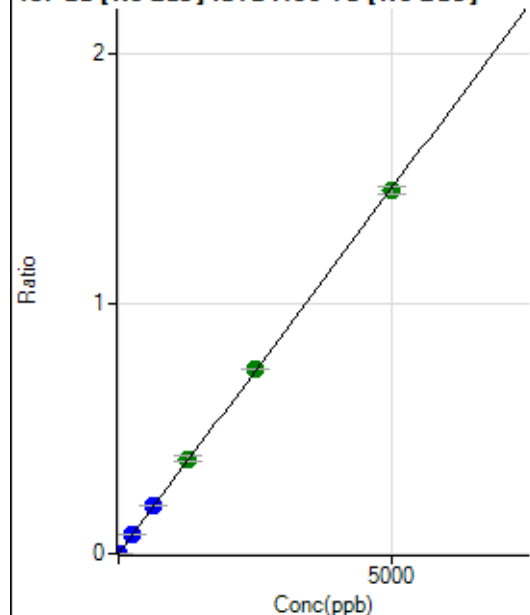
$$R = 1.0000$$

$$DL = 0.04909$$

$$BEC = 0.05897$$

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	60.00	0.0000	P	14.7
2	☐	10.000	10.109	21063.19	0.0030	P	2.5
3	☐	250.000	263.032	551570.55	0.0768	P	1.1
4	☐	625.000	653.453	1312536.48	0.1908	P	1.1
5	☐	1250.000	1302.301	2556899.70	0.3803	A	5.7
6	☐	2500.000	2531.438	4978672.95	0.7393	A	0.3
7	☐	5000.000	4966.997	9792561.66	1.4505	A	2.0
8	☐			10536.14	0.0016	P	48.0

$$y = 2.9203E-004 * x + 8.3072E-006$$

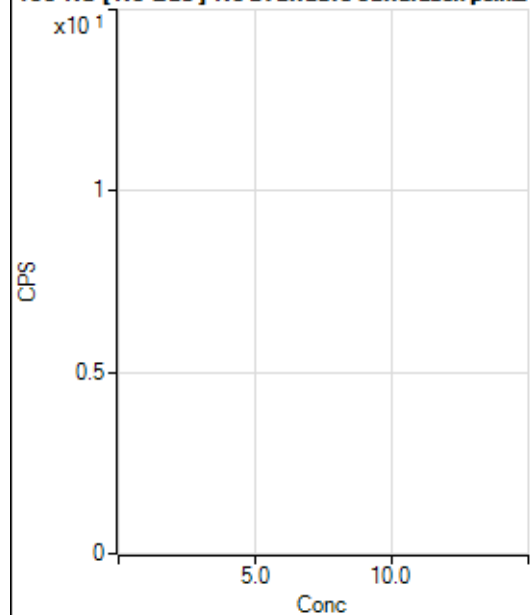
$$R = 0.9999$$

$$DL = 0.01258$$

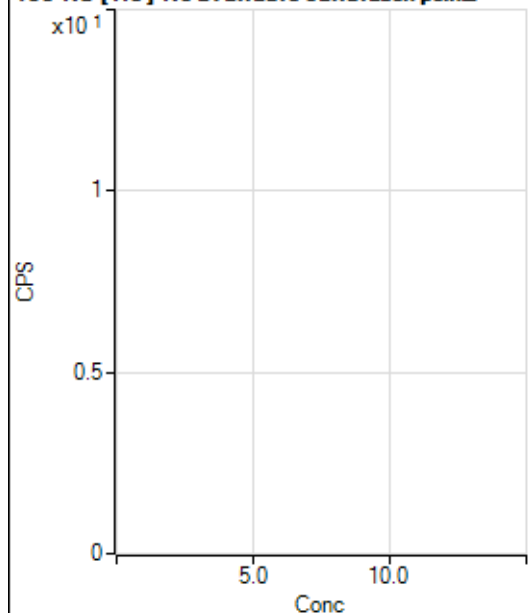
$$BEC = 0.02845$$

Weight: <None>

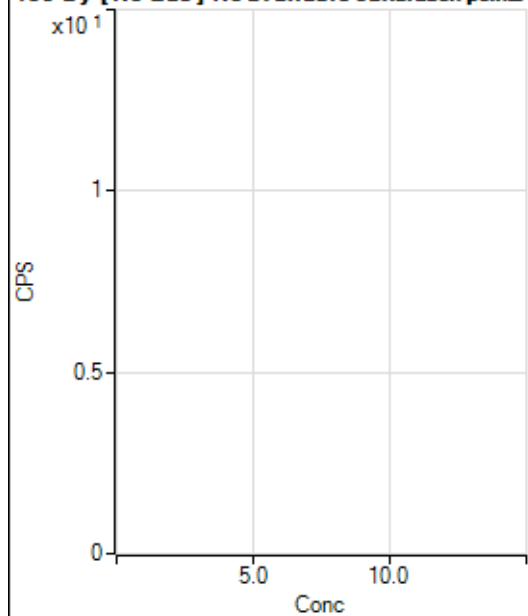
Min Conc: 0

150 Nd [No Gas] No available calibration points

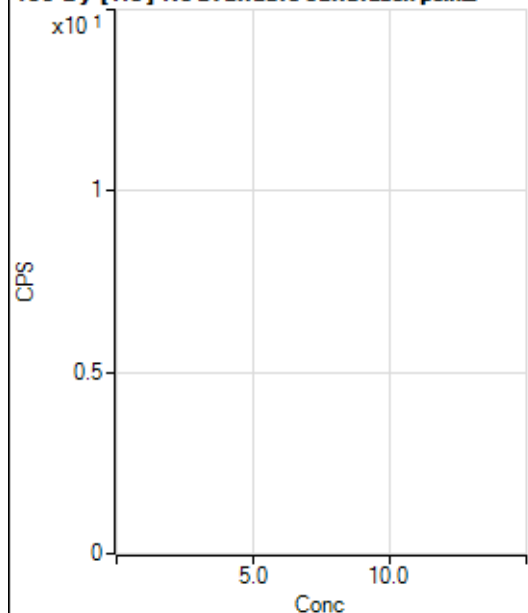
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.89		P	57.3
2	☐			11.11		P	69.3
3	☐			35.55		P	19.5
4	☐			58.89		P	34.1
5	☐			104.45		P	12.1
6	☐			158.89		P	10.8
7	☐			372.23		P	9.9
8	☐			222.23		P	17.4

150 Nd [He] No available calibration points

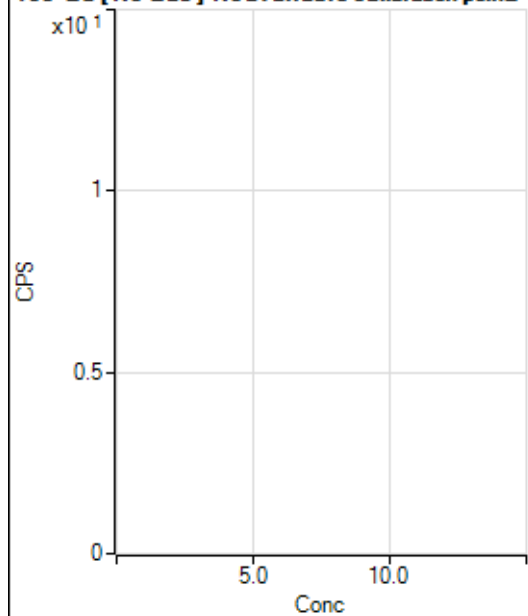
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	86.6
2	☐			2.22		P	86.6
3	☐			4.44		P	43.4
4	☐			8.89		P	78.1
5	☐			16.67		P	60.0
6	☐			28.89		P	43.7
7	☐			53.33		P	22.5
8	☐			53.33		P	33.1

156 Dy [No Gas] No available calibration points

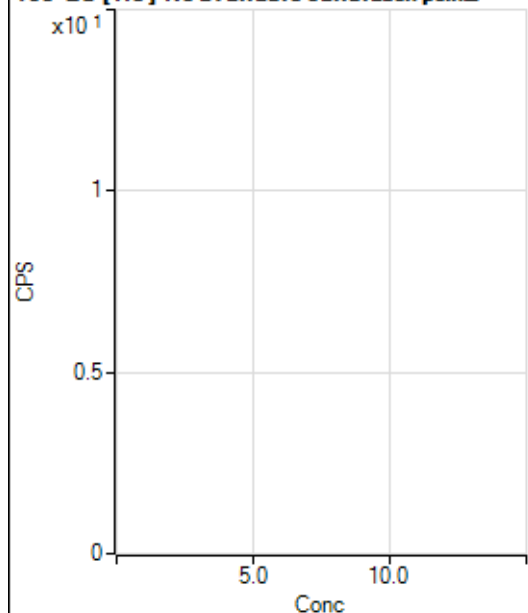
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			10.00		P	57.7
2	☐			13.33		P	90.2
3	☐			20.00		P	16.7
4	☐			51.11		P	3.8
5	☐			100.00		P	6.7
6	☐			201.11		P	18.2
7	☐			393.34		P	8.1
8	☐			1154.50		P	1.9

156 Dy [He] No available calibration points

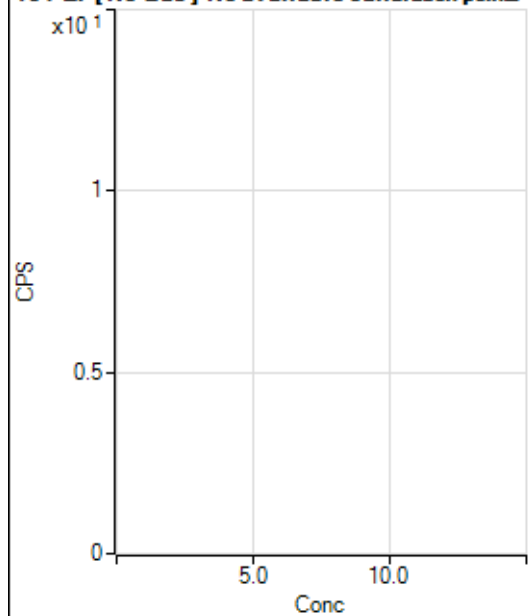
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			3.33		P	0.0
3	☐			16.67		P	20.0
4	☐			24.44		P	31.5
5	☐			45.55		P	34.6
6	☐			92.22		P	5.5
7	☐			178.89		P	19.9
8	☐			477.79		P	10.0

160 Gd [No Gas] Noavailable calibration poin_

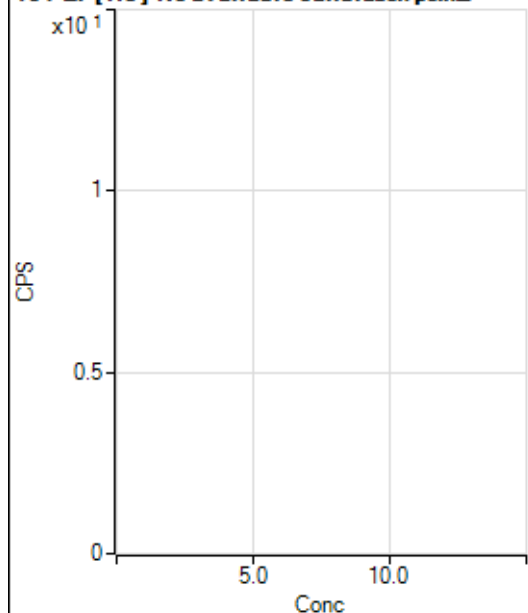
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			50.00		P	6.7
2	☐			33.33		P	10.0
3	☐			53.33		P	34.8
4	☐			72.22		P	29.7
5	☐			108.89		P	24.7
6	☐			182.23		P	7.6
7	☐			366.68		P	16.1
8	☐			1261.18		P	8.0

160 Gd [He] No available calibration points

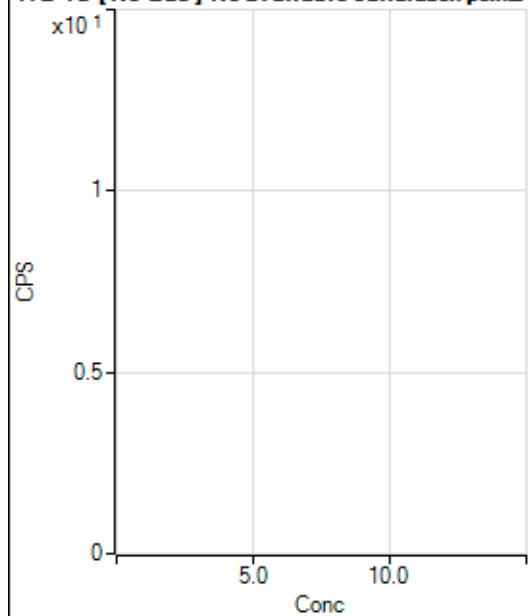
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			84.45		P	33.1
2	☐			81.11		P	21.1
3	☐			108.89		P	15.4
4	☐			106.67		P	29.8
5	☐			128.89		P	24.0
6	☐			180.00		P	11.3
7	☐			247.78		P	7.9
8	☐			684.47		P	4.9

164 Er [No Gas] No available calibration points

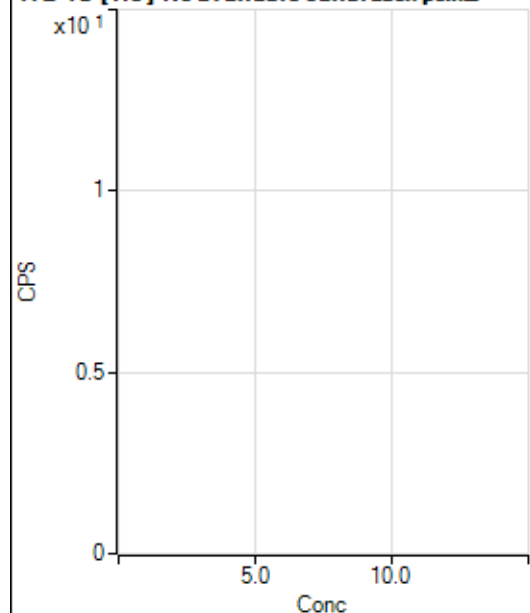
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			58.89		P	11.8
2	☐			62.22		P	25.3
3	☐			61.11		P	31.0
4	☐			75.56		P	13.5
5	☐			80.00		P	43.9
6	☐			118.89		P	1.6
7	☐			193.33		P	10.8
8	☐			235.56		P	26.2

164 Er [He] No available calibration points

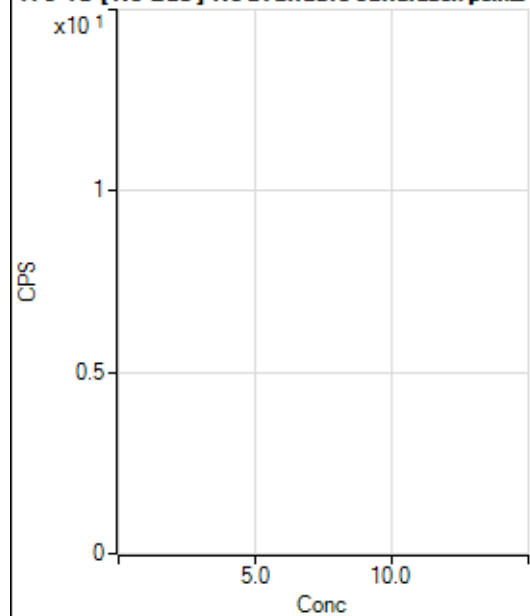
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			24.44		P	39.4
2	☐			15.55		P	44.6
3	☐			21.11		P	87.0
4	☐			35.56		P	21.6
5	☐			35.56		P	14.3
6	☐			44.45		P	37.7
7	☐			75.56		P	6.7
8	☐			73.33		P	20.8

172 Yb [No Gas] No available calibration points

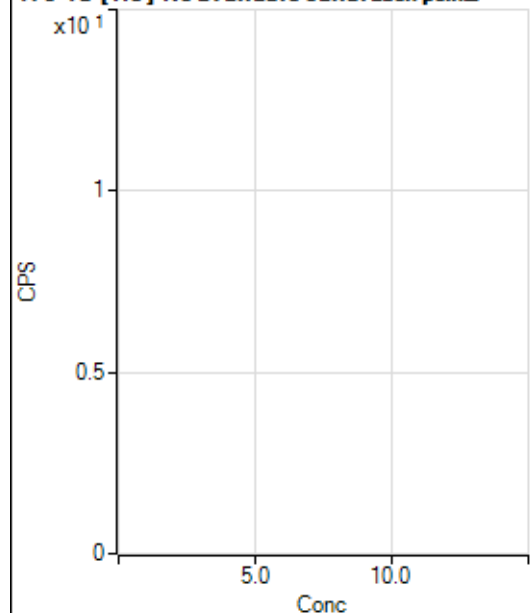
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			47.78		P	8.1
2	☐			42.22		P	18.2
3	☐			57.78		P	21.8
4	☐			60.00		P	9.6
5	☐			70.00		P	17.2
6	☐			96.67		P	10.3
7	☐			167.78		P	27.4
8	☐			131.11		P	16.5

172 Yb [He] No available calibration points

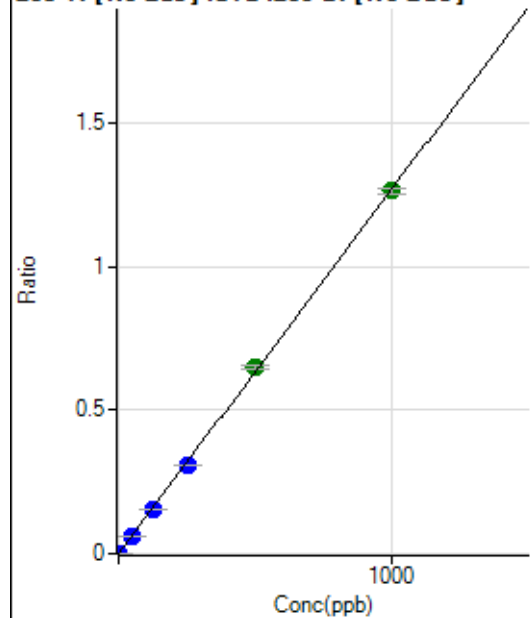
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			22.22		P	45.8
2	☐			20.00		P	28.9
3	☐			15.55		P	44.6
4	☐			23.33		P	14.3
5	☐			34.45		P	39.1
6	☐			36.67		P	9.1
7	☐			81.11		P	35.4
8	☐			57.78		P	35.3

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			784.48		P	2.8
2	☐			692.25		P	6.8
3	☐			2064.63		P	4.4
4	☐			3843.93		P	3.8
5	☐			6898.52		P	0.8
6	☐			13106.62		P	1.0
7	☐			25408.95		P	2.1
8	☐			700.03		P	7.4

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			9274.50		P	4.3
2	☐			9943.83		P	3.4
3	☐			9864.88		P	3.2
4	☐			10347.47		P	3.5
5	☐			10962.42		P	0.3
6	☐			13402.46		P	1.1
7	☐			17512.83		P	2.8
8	☐			9145.47		P	3.9

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	338.90	0.0001	P	8.0
2	☐	1.000	0.916	6158.19	0.0012	P	1.9
3	☐	50.000	49.196	310996.94	0.0625	P	1.7
4	☐	125.000	120.788	748904.91	0.1534	P	0.3
5	☐	250.000	242.827	1472608.87	0.3083	P	0.6
6	☐	500.000	511.769	3026276.80	0.6497	A	1.8
7	☐	1000.000	996.475	5877747.76	1.2649	A	1.3
8	☐			5333.64	0.0012	P	50.7

$$y = 0.0013 * x + 6.6604E-005$$

$$R = 0.9999$$

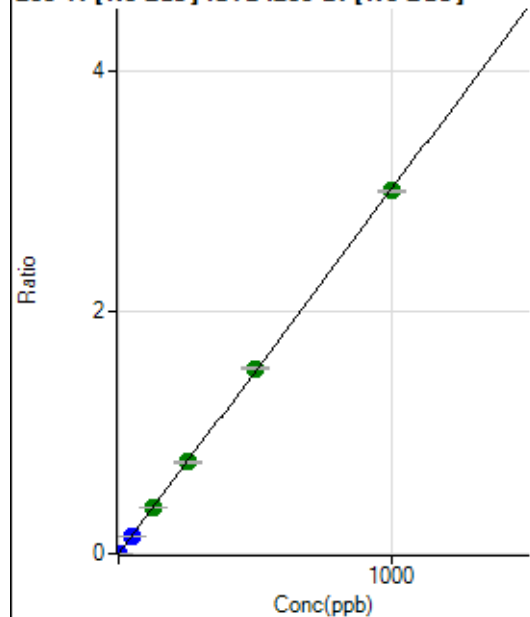
$$DL = 0.0126$$

$$BEC = 0.05247$$

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	710.03	0.0001	P	9.7
2	☐	1.000	0.936	14838.59	0.0030	P	2.6
3	☐	50.000	49.365	741141.93	0.1490	P	2.8
4	☐	125.000	126.203	1858813.29	0.3807	A	0.3
5	☐	250.000	251.837	3627707.97	0.7596	A	1.6
6	☐	500.000	508.026	7136753.64	1.5321	A	1.4
7	☐	1000.000	995.409	13949444.51	3.0018	A	0.6
8	☐			13109.44	0.0030	P	50.1

$$y = 0.0030 * x + 1.3956E-004$$

$$R = 0.9999$$

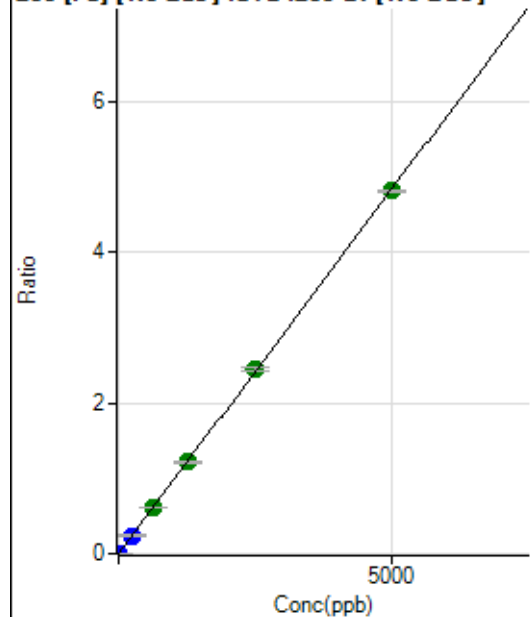
$$DL = 0.01345$$

$$BEC = 0.04628$$

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	274.45	0.0001	P	7.8
2	☐	1.000	0.960	4914.32	0.0010	P	4.1
3	☐	250.000	247.539	1189593.40	0.2392	P	2.7
4	☐	625.000	631.755	2979680.37	0.6103	A	0.6
5	☐	1250.000	1257.094	5799605.05	1.2143	A	1.7
6	☐	2500.000	2533.790	11400580.94	2.4475	A	1.6
7	☐	5000.000	4980.610	22356020.22	4.8109	A	0.7
8	☐			23513.19	0.0055	P	43.7

$$y = 9.6592E-004 * x + 5.3941E-005$$

$$R = 1.0000$$

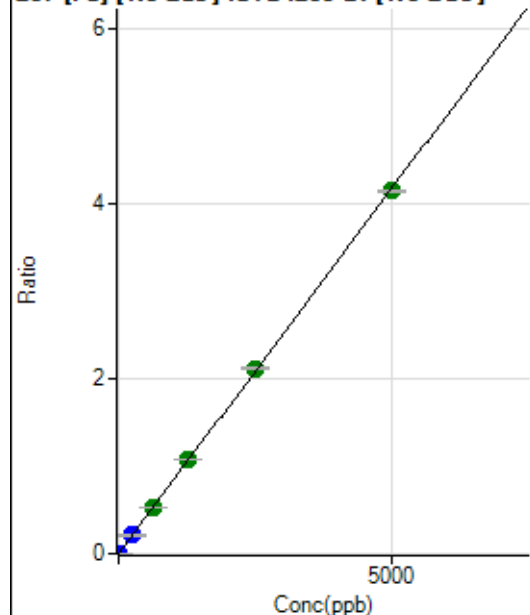
$$DL = 0.0131$$

$$BEC = 0.05584$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	250.01	0.0000	P	9.8
2	☐	1.000	1.019	4509.73	0.0009	P	1.2
3	☐	250.000	250.654	1041339.80	0.2093	P	2.5
4	☐	625.000	635.261	2590097.55	0.5305	A	0.9
5	☐	1250.000	1282.598	5115868.54	1.0710	A	0.3
6	☐	2500.000	2538.116	9872704.92	2.1193	A	0.7
7	☐	5000.000	4971.477	19290345.13	4.1512	A	0.7
8	☐			20276.32	0.0047	P	40.6

$$y = 8.3499\text{E-}004 * x + 4.9135\text{E-}005$$

$$R = 0.9999$$

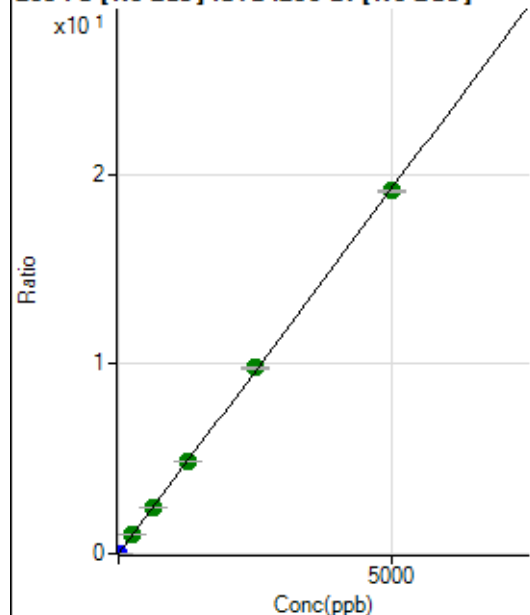
$$DL = 0.01733$$

$$BEC = 0.05884$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1093.37	0.0002	P	2.6
2	☐	1.000	0.993	20235.31	0.0040	P	3.5
3	☐	250.000	252.594	4843437.18	0.9735	A	1.4
4	☐	625.000	631.322	11878202.33	2.4328	A	0.0
5	☐	1250.000	1268.061	23339803.68	4.8863	A	1.0
6	☐	2500.000	2548.117	45736503.27	9.8185	A	1.3
7	☐	5000.000	4970.506	89000826.86	19.1524	A	0.6
8	☐			93316.95	0.0217	P	43.1

$$y = 0.0039 * x + 2.1491\text{E-}004$$

$$R = 0.9999$$

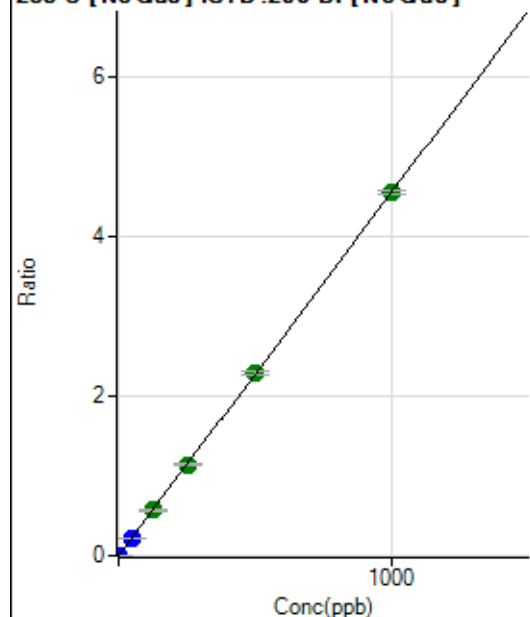
$$DL = 0.004401$$

$$BEC = 0.05577$$

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	26.67	0.0000	P	64.9
2	☐	1.000	0.904	20629.12	0.0041	P	2.4
3	☐	50.000	48.511	1098242.15	0.2208	P	2.4
4	☐	125.000	124.943	2776266.80	0.5686	A	1.7
5	☐	250.000	249.977	5432656.97	1.1376	A	3.0
6	☐	500.000	502.618	10654882.20	2.2874	A	1.4
7	☐	1000.000	998.778	21122911.49	4.5453	A	1.0
8	☐			16954.67	0.0039	P	55.8

$$y = 0.0046 * x + 5.2409E-006$$

$$R = 1.0000$$

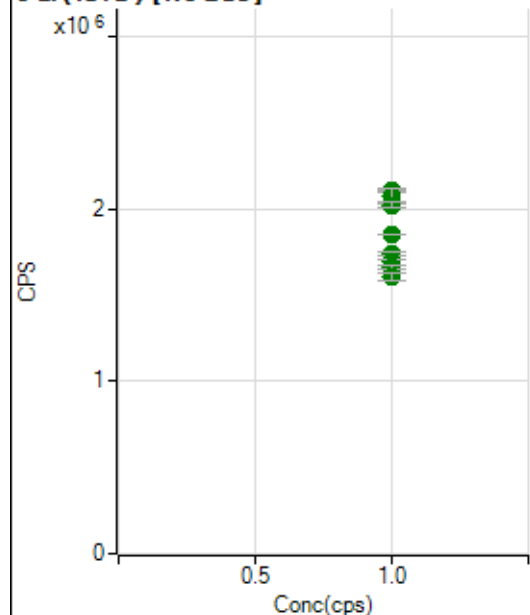
$$DL = 0.002241$$

$$BEC = 0.001152$$

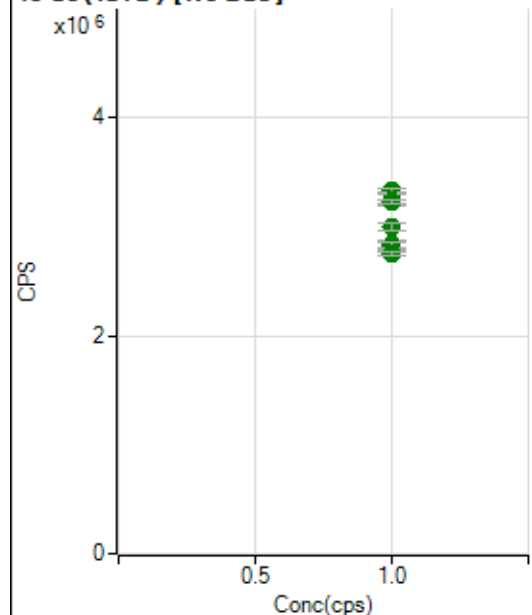
Weight: <None>

Min Conc: 0

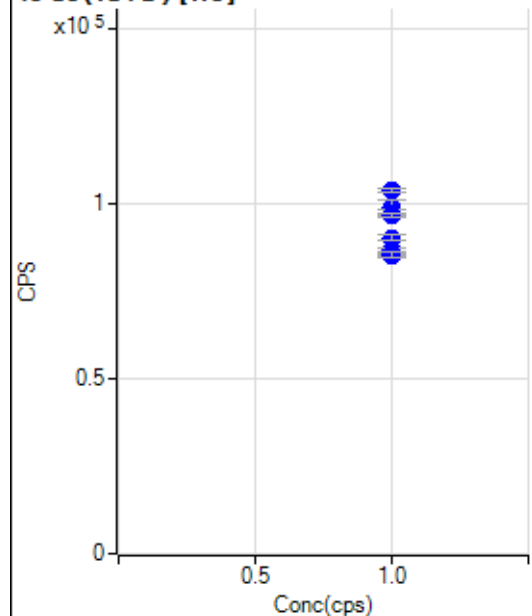
6 Li (ISTD) [No Gas]



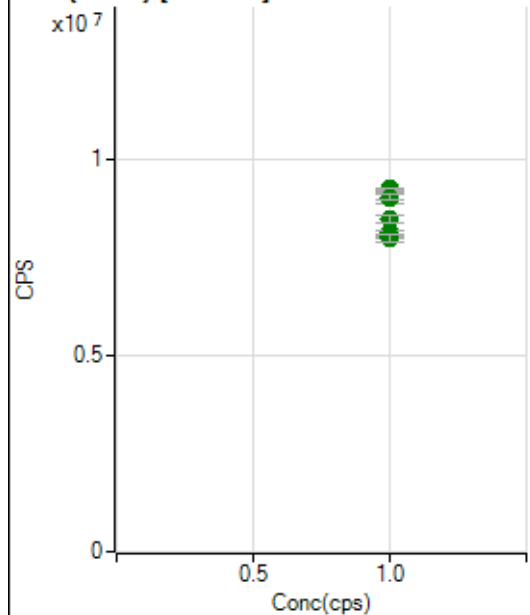
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2107276.18		A	0.7
2	☐	1.000		2078358.10		A	4.2
3	☐	1.000		2025874.32		A	1.7
4	☐	1.000		1852428.58		A	0.4
5	☐	1.000		1738383.97		A	1.1
6	☐	1.000		1696097.17		A	1.8
7	☐	1.000		1661531.14		A	1.7
8	☐	1.000		1605771.30		A	3.0

45 Sc (ISTD) [No Gas]

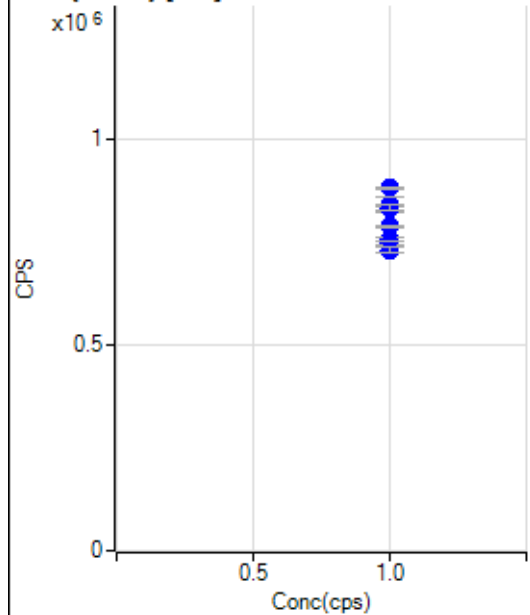
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3326876.72		A	1.1
2	☐	1.000		3243650.89		A	3.0
3	☐	1.000		3227857.21		A	1.1
4	☐	1.000		2999409.50		A	2.2
5	☐	1.000		2833252.60		A	2.4
6	☐	1.000		2786998.85		A	0.5
7	☐	1.000		2828724.02		A	1.8
8	☐	1.000		2752571.70		A	1.7

45 Sc (ISTD) [He]

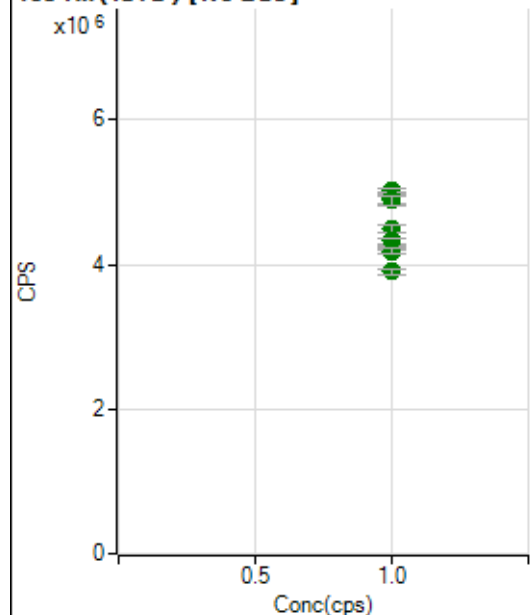
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		99093.68		P	4.0
2	☐	1.000		103769.32		P	1.2
3	☐	1.000		97552.03		P	1.5
4	☐	1.000		90274.63		P	1.9
5	☐	1.000		86664.92		P	1.9
6	☐	1.000		85798.47		P	1.1
7	☐	1.000		85317.45		P	1.8
8	☐	1.000		96648.90		P	1.3

89 Y (ISTD) [No Gas]

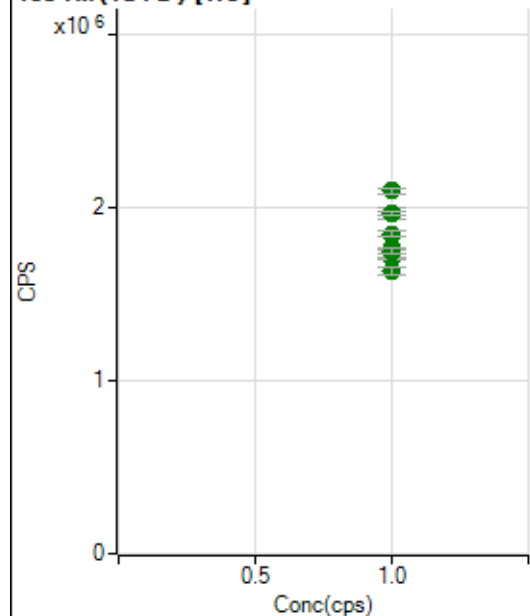
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9263189.72		A	0.5
2	☐	1.000		9025711.26		A	3.4
3	☐	1.000		9054170.01		A	1.2
4	☐	1.000		8501413.28		A	2.3
5	☐	1.000		8140916.61		A	1.8
6	☐	1.000		8025974.05		A	0.6
7	☐	1.000		8035118.35		A	1.1
8	☐	1.000		7979933.15		A	2.5

89 Y (ISTD) [He]

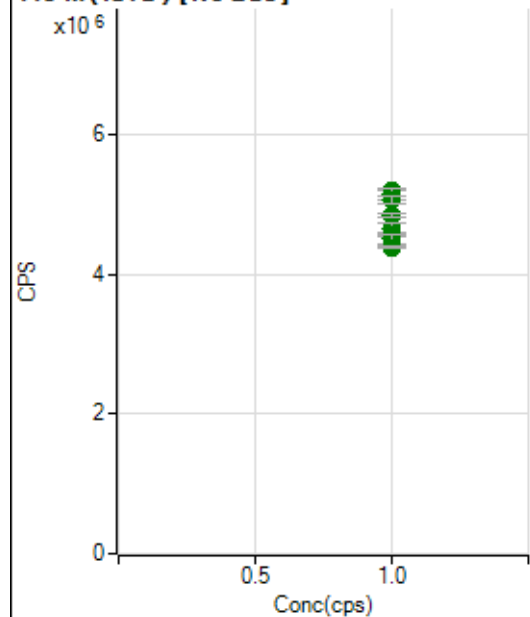
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		840394.87		P	4.5
2	☐	1.000		880152.68		P	0.4
3	☐	1.000		836523.15		P	0.7
4	☐	1.000		787431.57		P	0.4
5	☐	1.000		755018.95		P	1.1
6	☐	1.000		746107.48		P	0.8
7	☐	1.000		728730.95		P	2.2
8	☐	1.000		831775.80		P	1.7

103 Rh (ISTD) [No Gas]

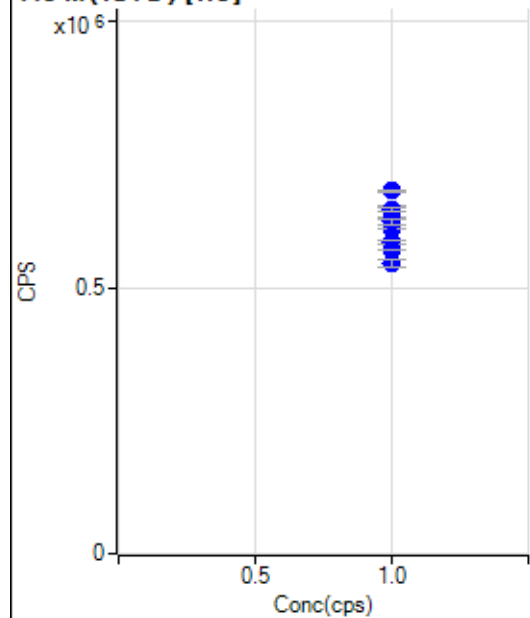
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5015161.59		A	1.7
2	☐	1.000		4915324.65		A	3.1
3	☐	1.000		4884285.65		A	2.6
4	☐	1.000		4496923.82		A	2.1
5	☐	1.000		4323451.88		A	1.7
6	☐	1.000		4231134.31		A	1.1
7	☐	1.000		4179008.76		A	2.1
8	☐	1.000		3902745.53		A	1.9

103 Rh (ISTD) [He]

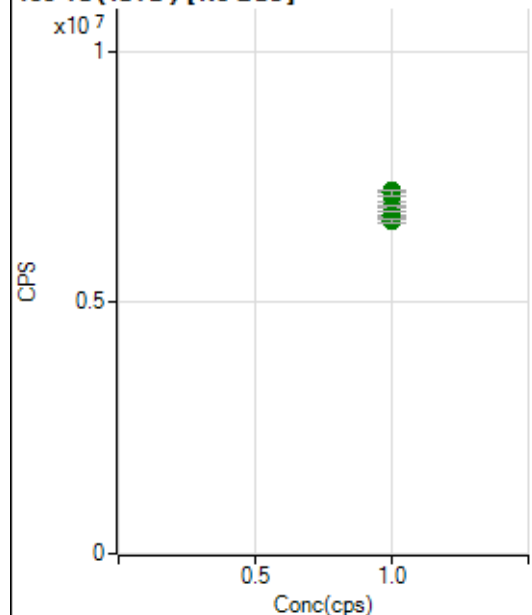
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1964341.93		A	3.4
2	☐	1.000		2094889.33		A	1.5
3	☐	1.000		1961311.10		A	1.2
4	☐	1.000		1845983.91		A	1.7
5	☐	1.000		1761233.90		A	0.4
6	☐	1.000		1705457.95		A	0.7
7	☐	1.000		1636524.66		A	2.9
8	☐	1.000		1748523.88		A	1.8

115 In (ISTD) [No Gas]

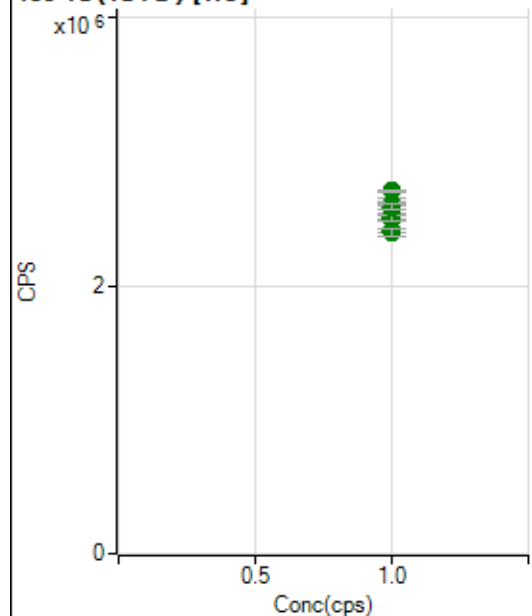
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5200650.98		A	0.1
2	☐	1.000		5149461.97		A	2.9
3	☐	1.000		5078589.25		A	2.1
4	☐	1.000		4857179.67		A	1.3
5	☐	1.000		4665217.26		A	3.0
6	☐	1.000		4563714.93		A	0.5
7	☐	1.000		4508616.37		A	2.8
8	☐	1.000		4395632.74		A	1.0

115 In (ISTD) [He]

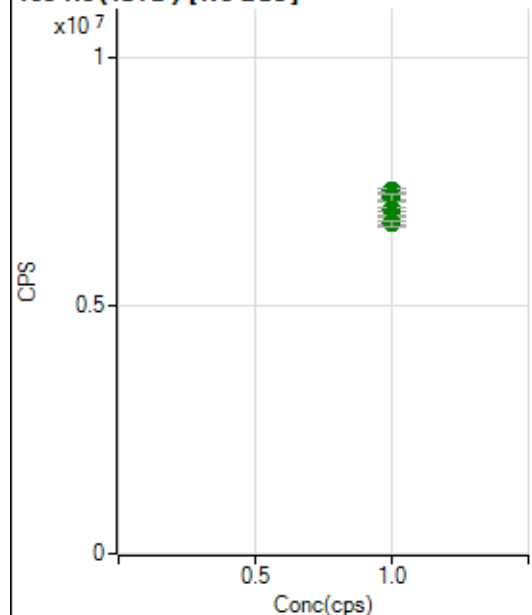
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		643353.25		P	3.0
2	☐	1.000		681489.06		P	0.5
3	☐	1.000		647248.06		P	1.0
4	☐	1.000		609936.67		P	0.2
5	☐	1.000		585216.67		P	0.7
6	☐	1.000		570942.69		P	0.3
7	☐	1.000		545552.99		P	3.0
8	☐	1.000		623324.63		P	1.4

159 Tb (ISTD) [No Gas]

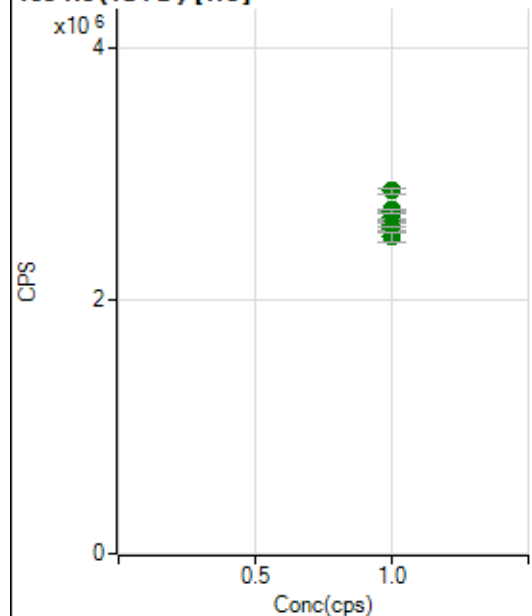
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7223122.53		A	0.2
2	☐	1.000		7117470.66		A	2.7
3	☐	1.000		7180668.44		A	1.7
4	☐	1.000		6878267.26		A	1.3
5	☐	1.000		6733582.19		A	4.2
6	☐	1.000		6734525.18		A	0.6
7	☐	1.000		6752651.43		A	1.9
8	☐	1.000		6625138.03		A	1.2

159 Tb (ISTD) [He]

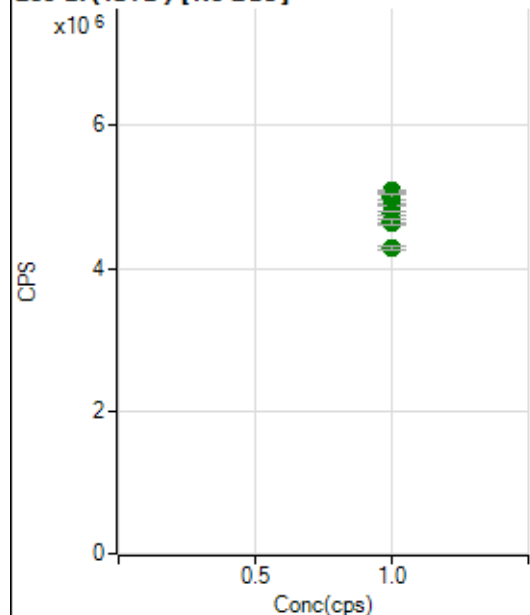
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2597017.13		A	4.3
2	☐	1.000		2705300.83		A	0.7
3	☐	1.000		2607677.06		A	1.3
4	☐	1.000		2511543.61		A	1.0
5	☐	1.000		2500333.28		A	2.0
6	☐	1.000		2407423.05		A	0.9
7	☐	1.000		2393499.77		A	2.3
8	☐	1.000		2586526.96		A	1.6

165 Ho (ISTD) [No Gas]

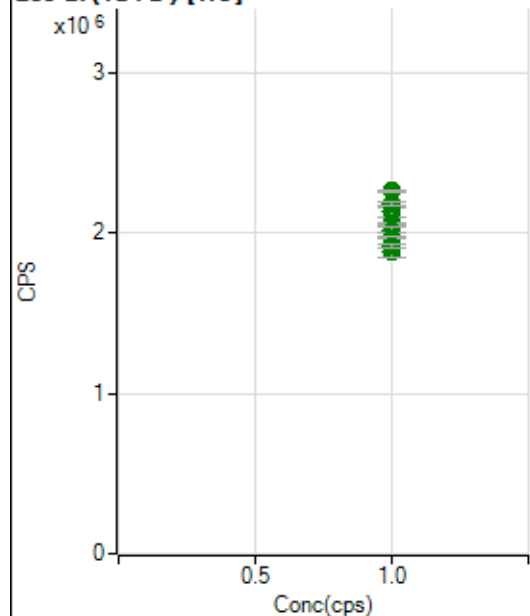
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7303720.66		A	1.4
2	☐	1.000		7199523.71		A	2.1
3	☐	1.000		7164548.64		A	1.7
4	☐	1.000		6931831.91		A	1.1
5	☐	1.000		6759147.82		A	4.2
6	☐	1.000		6787988.65		A	0.6
7	☐	1.000		6799687.95		A	0.7
8	☐	1.000		6646496.43		A	1.9

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2665499.16		A	4.2
2	☐	1.000		2869114.89		A	1.3
3	☐	1.000		2715603.50		A	0.9
4	☐	1.000		2638619.98		A	0.4
5	☐	1.000		2594011.11		A	1.1
6	☐	1.000		2567208.80		A	0.9
7	☐	1.000		2504326.79		A	2.9
8	☐	1.000		2705684.28		A	1.3

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5087312.22		A	0.4
2	☐	1.000		5009987.25		A	2.2
3	☐	1.000		4976448.74		A	2.6
4	☐	1.000		4882530.34		A	0.1
5	☐	1.000		4776852.71		A	1.5
6	☐	1.000		4658549.13		A	0.9
7	☐	1.000		4647252.29		A	1.4
8	☐	1.000		4289032.19		A	1.3

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2133792.35		A	3.0
2	☐	1.000		2264221.23		A	0.4
3	☐	1.000		2184128.27		A	0.8
4	☐	1.000		2058470.16		A	0.7
5	☐	1.000		2018916.53		A	1.8
6	☐	1.000		1969967.61		A	0.7
7	☐	1.000		1880093.24		A	2.9
8	☐	1.000		1919073.79		A	1.4

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP8022924 MS.b

Acq. Date-Time 2024-02-29 11:45:20

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		8023	80234.64			1.854	5.000
24		73469	734689.84			3.271	5.000
25		9891	98908.48			1.878	5.000
26		11400	114004.95			1.664	5.000
59		55348	553483.72			1.664	5.000
113		6692	66922.24			1.469	5.000
115		83631	836306.77			1.589	5.000
206		24015	240149.70			1.428	5.000
207		21706	217063.91			1.526	5.000
208		52922	529217.65			1.245	5.000
220		0	0.80			71.261	

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

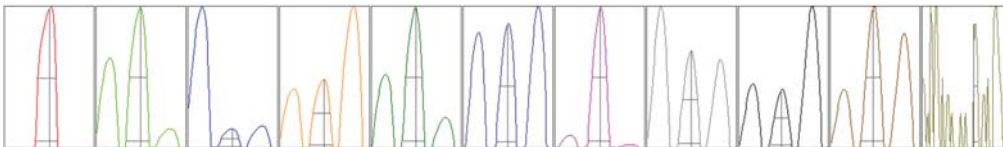
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	8216	8099	8028	7954	7821
24	76565	73776	74374	72602	70028
25	10059	10000	10002	9769	9625
26	11616	11429	11533	11278	11147
59	56507	55209	55825	55183	54017
113	6767	6654	6809	6671	6560
115	84768	83568	85166	82384	82268
206	24125	23858	24529	23956	23607
207	21823	21580	22127	21773	21229
208	53338	52431	53518	53305	52016

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	14242.03	9.05	8.90 - 9.10	
24	132422.16	24.00	23.90 - 24.10	
25	17814.53	25.00	24.90 - 25.10	
26	20836.31	26.00	25.90 - 26.10	
59	108156.96	59.00	58.90 - 59.10	
113	13967.44	113.00	112.90 - 113.10	
115	176833.54	115.05	114.90 - 115.10	
206	49568.40	206.00	205.90 - 206.10	
207	44952.10	206.95	206.90 - 207.10	
208	108158.86	207.95	207.90 - 208.10	
220	0.35	220.25	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.60	0.739	0.900	
24	0.59	0.782	0.900	
25	0.58	0.779	0.900	
26	0.57	0.783	0.900	
59	0.54	0.761	0.900	
113	0.49	0.684	0.900	
115	0.49	0.727	0.900	
206	0.49	0.737	0.900	
207	0.49	0.766	0.900	
208	0.49	0.770	0.900	
220	0.14	0.194		

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	10.2 V	Deflect	14.6 V
Extract 2	-190.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-105 V	Cell Exit	-50 V		

Cell Parameters

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

QP Parameters

Mass Gain	124	Axis Gain	0.9992	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	0.9 mm	Torch V	-0.9 mm
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EM

Discriminator	4.4 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		11682	116817.77			0.591	
89		8759	87587.55			1.045	
205		15644	156436.44			0.297	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	11706	11735	11711	11561	11696
89	8766	8656	8860	8677	8835
205	15637	15640	15579	15652	15710

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	10.2 V	Deflect	3.8 V
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US EPA Tune Check Report

Extract 2	-190.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-105 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	190 V		
QP Parameters					
Mass Gain	124	Axis Gain	0.9992	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.01		
Hardware Settings					
Torch					
Torch H	0.9 mm	Torch V	-0.9 mm		
EM					
Discriminator	4.4 mV	Analog HV	2314 V	Pulse HV	1694 V