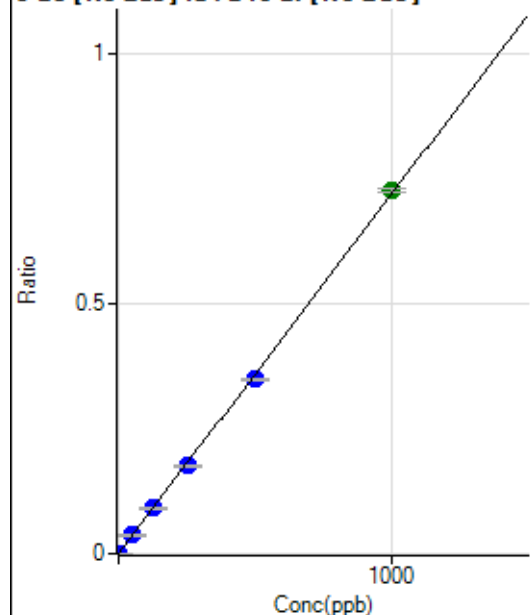


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8040124-MS.b\
Analysis File: P8040124-MS.batch.bin
DA Date-Time: 2024-04-01 14:38:22
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2024-04-01 09:58:36
2	006CALS.d	S02	2024-04-01 10:05:27
3	007CALS.d	S03	2024-04-01 10:08:51
4	008CALS.d	S04	2024-04-01 10:12:10
5	009CALS.d	S05	2024-04-01 10:15:17
6	010CALS.d	S06	2024-04-01 10:18:24
7	011CALS.d	S07	2024-04-01 10:21:25
8	012CALS.d	S08	2024-04-01 10:24:29

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	62.91	0.0000	P	41.0
2	☐	1.000	0.978	1515.72	0.0007	P	0.7
3	☐	50.000	51.508	73539.18	0.0370	P	4.3
4	☐	125.000	126.143	174961.03	0.0906	P	3.7
5	☐	250.000	243.532	339507.55	0.1749	P	0.6
6	☐	500.000	484.716	654860.04	0.3481	P	1.1
7	☐	1000.000	1009.041	1322743.51	0.7246	A	1.2
8	☐			591.61	0.0004	P	4.5

$$y = 7.1808\text{E-}004 * x + 2.4116\text{E-}005$$

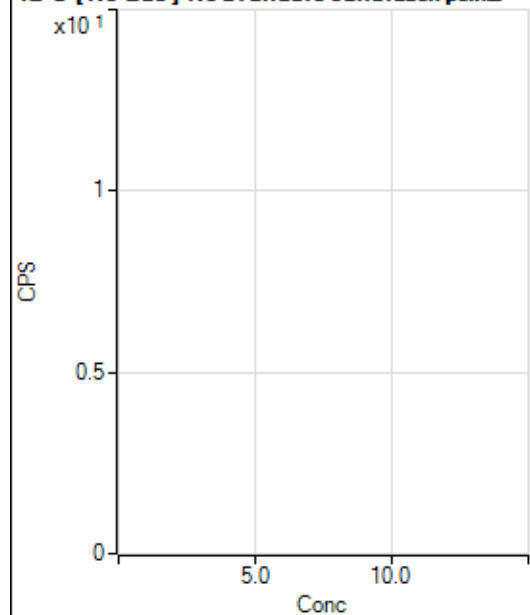
$$R = 0.9998$$

$$DL = 0.04135$$

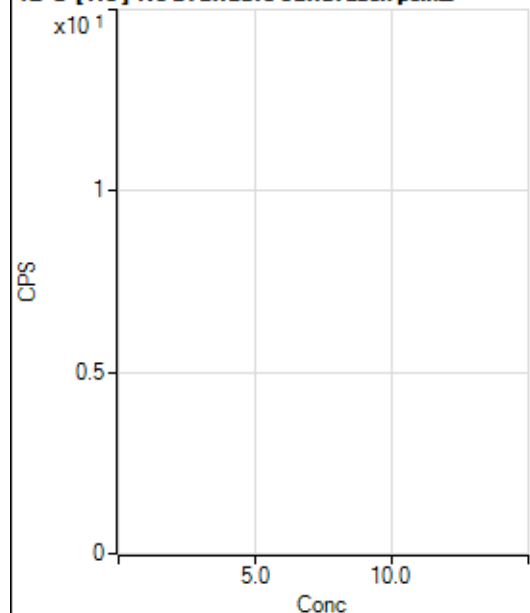
$$BEC = 0.03358$$

Weight: <None>

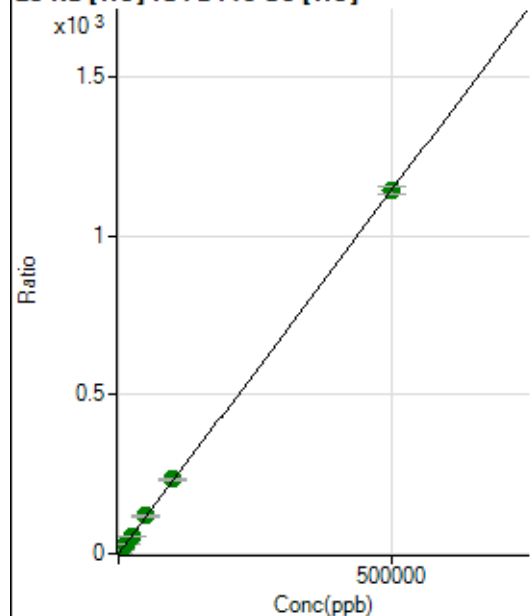
Min Conc: 0

12 C [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐			1426316.66		A	5.7
2	☐			1330314.66		A	2.0
3	☐			1378698.38		A	0.8
4	☐			1430350.03		A	1.3
5	☐			1504654.54		A	2.7
6	☐			1785843.76		A	2.2
7	☐			1928194.87		A	4.2
8	☐			1961529.90		A	6.3

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			15410.39		P	2.2
2	☐			15689.55		P	1.3
3	☐			15808.59		P	2.6
4	☐			16929.85		P	1.5
5	☐			18716.43		P	1.8
6	☐			22501.74		P	0.9
7	☐			26138.82		P	0.1
8	☐			30401.46		P	3.6

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	11942.73	0.1239	P	2.1
2	☐	500.000	453.838	114026.91	1.1604	P	1.0
3	☐	5000.000	5061.046	1085570.43	11.6831	A	1.1
4	☐	12500.000	12452.890	2539492.82	28.5657	A	0.7
5	☐	25000.000	24582.250	5002250.90	56.2686	A	1.4
6	☐	50000.000	52499.984	9835558.19	120.0314	A	6.5
7	☐	100000.00	101948.32	20205205.39	232.9690	A	2.1
8	☐	500000.00	499381.83	97746887.43	1,140.688	A	2.3

$$y = 0.0023 * x + 0.1239$$

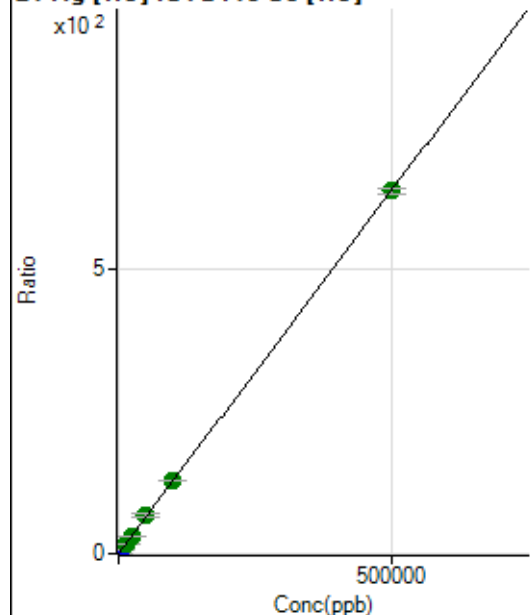
$$R = 1.0000$$

$$DL = 3.362$$

$$BEC = 54.24$$

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	124.45	0.0013	P	19.7
2	☐	500.000	462.180	57952.32	0.5898	P	1.1
3	☐	5000.000	4995.338	591117.86	6.3618	P	0.7
4	☐	12500.000	12345.361	1397568.57	15.7206	A	2.7
5	☐	25000.000	24491.905	2772621.83	31.1867	A	0.8
6	☐	50000.000	53519.691	5579245.82	68.1476	A	8.6
7	☐	100000.00	100829.25	11135402.75	128.3866	A	0.5
8	☐	500000.00	499511.53	54494252.52	636.0265	A	1.3

$$y = 0.0013 * x + 0.0013$$

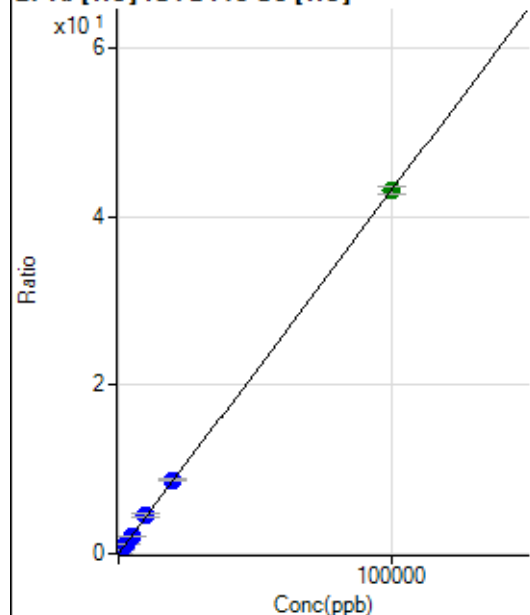
$$R = 1.0000$$

$$DL = 0.5989$$

$$BEC = 1.013$$

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	34.44	0.0004	P	29.7
2	☐	20.000	20.477	902.26	0.0092	P	12.6
3	☐	1000.000	996.529	39944.75	0.4299	P	1.6
4	☐	2500.000	2460.467	94313.41	1.0609	P	0.9
5	☐	5000.000	4895.084	187618.34	2.1103	P	1.1
6	☐	10000.000	10563.618	373003.22	4.5535	P	7.2
7	☐	20000.000	20355.015	760966.18	8.7739	P	1.3
8	☐	100000.00	99878.904	3688341.44	43.0507	A	2.0

$$y = 4.3103E-004 * x + 3.5721E-004$$

$$R = 1.0000$$

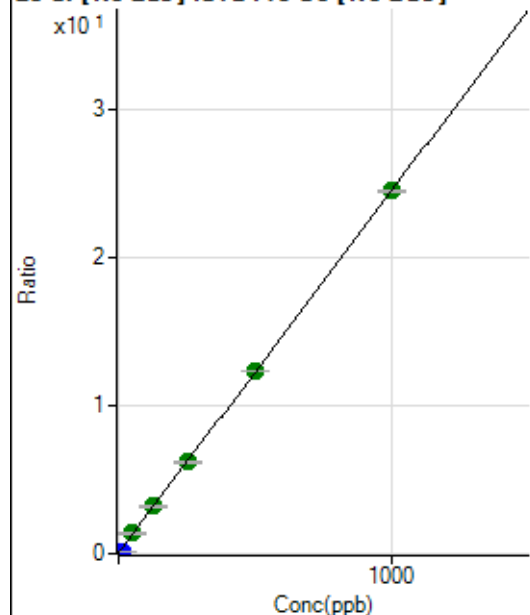
$$DL = 0.7375$$

$$BEC = 0.8287$$

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	384708.01	0.0940	P	31.0
2	☐	10.000	-1.104	204841.46	0.0671	P	1.7
3	☐	50.000	52.269	3928301.75	1.3712	A	1.4
4	☐	125.000	127.077	9077686.05	3.1990	A	3.8
5	☐	250.000	249.826	17468350.43	6.1982	A	2.5
6	☐	500.000	500.809	34241937.82	12.3306	A	0.8
7	☐	1000.000	999.377	66660417.90	24.5124	A	0.7
8	☐			1397614.94	0.5657	A	7.3

$$y = 0.0244 * x + 0.0940$$

$$R = 0.9999$$

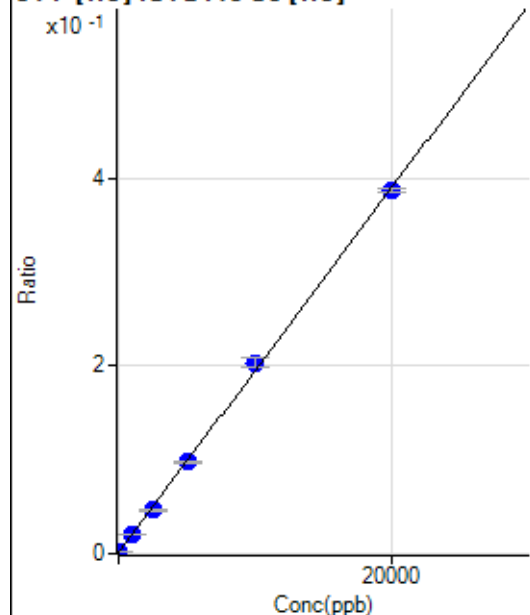
$$DL = 3.583$$

$$BEC = 3.848$$

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	-16.293	132.23	0.0014	P	10.5
2	☐	0.000	16.293	196.67	0.0020	P	14.2
3	☐	1000.000	953.845	1875.70	0.0202	P	4.6
4	☐	2500.000	2321.614	4153.97	0.0467	P	2.9
5	☐	5000.000	4961.739	8707.13	0.0979	P	1.9
6	☐	10000.000	10409.197	16690.84	0.2036	P	5.7
7	☐	20000.000	19829.573	33509.77	0.3864	P	1.1
8	☐			156.67	0.0018	P	5.9

$$y = 1.9399E-005 * x + 0.0017$$

$$R = 0.9996$$

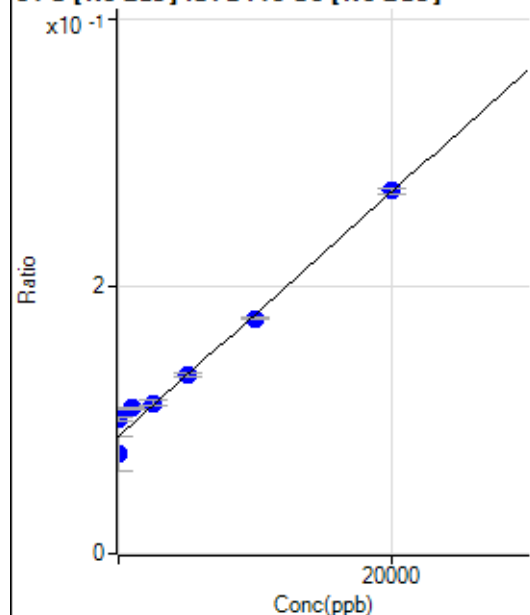
$$DL = 33.05$$

$$BEC = 86.94$$

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	-1382.341	278735.19	0.0753	P	34.2
2	☐	0.000	1382.341	307383.27	0.1006	P	2.5
3	☐	1000.000	2275.716	311788.00	0.1088	P	1.5
4	☐	2500.000	2723.008	320366.68	0.1129	P	4.6
5	☐	5000.000	5077.442	379063.91	0.1345	P	2.3
6	☐	10000.000	9630.171	489333.71	0.1762	P	1.1
7	☐	20000.000	20073.892	739351.08	0.2719	P	1.7
8	☐			259124.66	0.1049	P	4.5

$$y = 9.1628\text{E-}006 * x + 0.0880$$

$$R = 0.9915$$

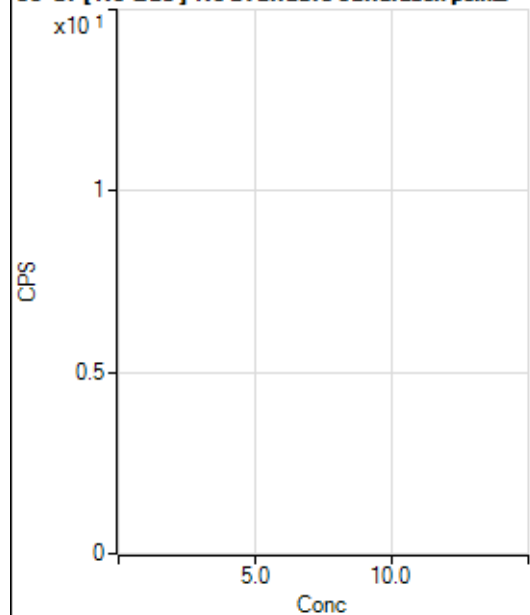
$$DL = 4632$$

$$BEC = 9601$$

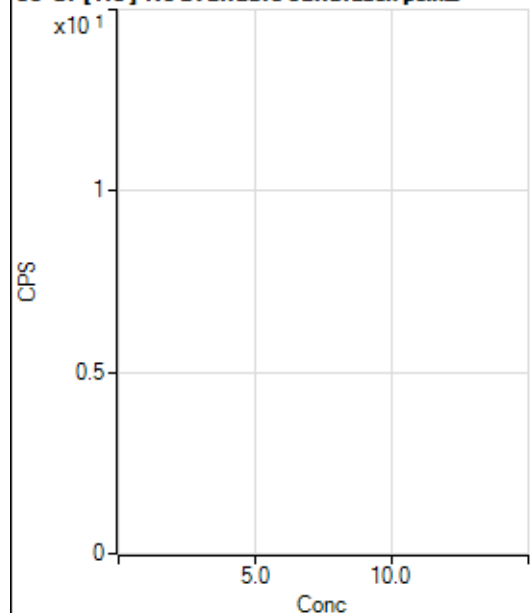
Weight: <None>

Min Conc: 0

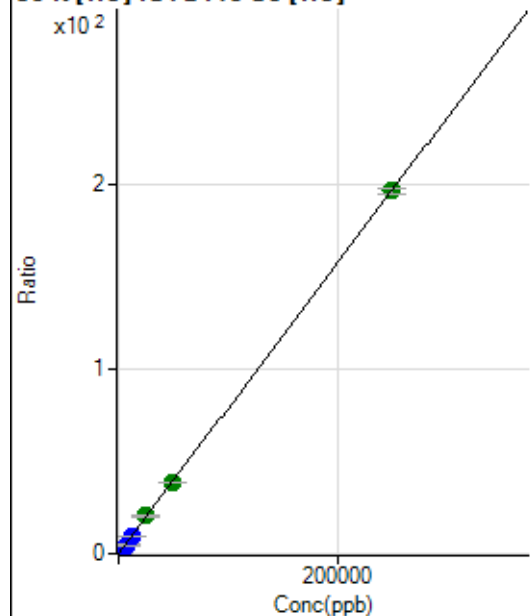
35 Cl [No Gas] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐			101242.94		P	10.0
2	☐			111370.82		P	1.1
3	☐			109464.12		P	1.7
4	☐			107482.70		P	1.1
5	☐			109870.47		P	1.1
6	☐			137553.30		P	0.6
7	☐			120642.73		P	0.8
8	☐			110400.12		P	2.5

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			735.58		P	8.8
2	☐			668.91		P	6.0
3	☐			661.13		P	4.4
4	☐			647.80		P	16.4
5	☐			737.81		P	2.6
6	☐			860.03		P	3.0
7	☐			795.59		P	1.3
8	☐			824.48		P	1.4

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	7202.97	0.0747	P	1.4
2	☐	500.000	445.980	41700.04	0.4244	P	0.2
3	☐	2500.000	2383.503	180572.88	1.9434	P	0.9
4	☐	6250.000	5866.746	415544.12	4.6742	P	1.0
5	☐	12500.000	11901.592	836167.54	9.4055	P	1.2
6	☐	25000.000	25913.484	1670211.03	20.3908	A	7.4
7	☐	50000.000	49190.947	3351357.07	38.6403	A	1.5
8	☐	250000.00	250111.23	16806035.03	196.1614	A	1.7

$$y = 7.8400E-004 * x + 0.0747$$

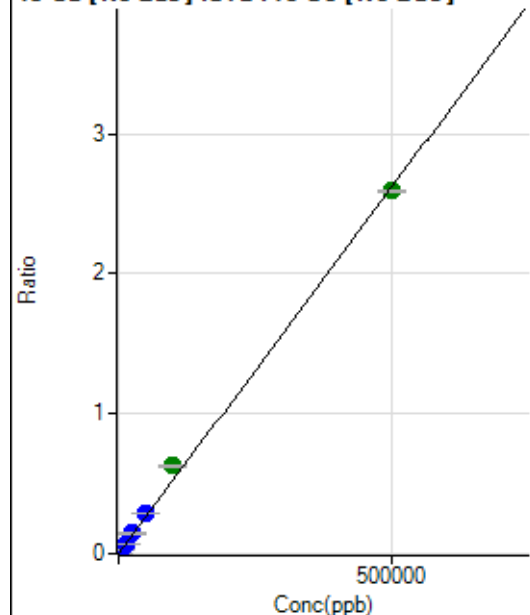
$$R = 1.0000$$

$$DL = 3.94$$

$$BEC = 95.3$$

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	161.11	0.0000	P	20.5
2	☐	500.000	468.553	7618.78	0.0025	P	3.6
3	☐	5000.000	5804.497	87157.63	0.0304	P	0.6
4	☐	12500.000	14083.468	209361.93	0.0738	P	2.5
5	☐	25000.000	27635.776	407773.47	0.1447	P	2.1
6	☐	50000.000	55153.120	801702.59	0.2887	P	0.8
7	☐	100000.00	120068.07	1708668.15	0.6284	A	2.4
8	☐	500000.00	495291.68	6400094.28	2.5922	A	0.6

$$y = 5.2337\text{E-}006 * x + 4.2431\text{E-}005$$

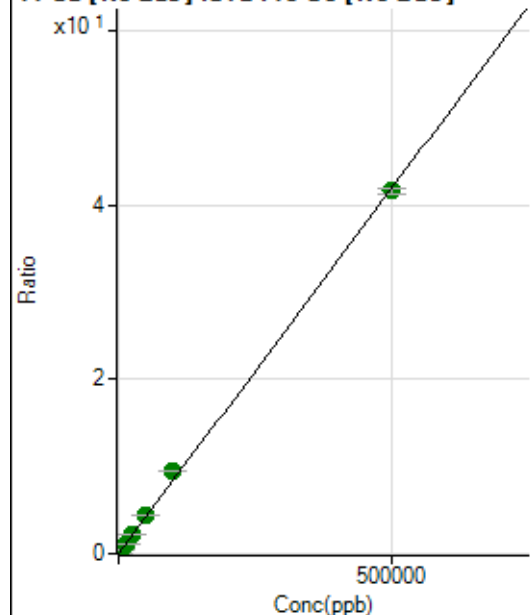
$$R = 0.9991$$

$$DL = 4.979$$

$$BEC = 8.107$$

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	21854.51	0.0059	P	31.9
2	☐	500.000	477.937	140270.81	0.0459	P	1.6
3	☐	5000.000	5697.651	1384743.03	0.4833	A	1.3
4	☐	12500.000	13693.753	3273730.05	1.1532	A	2.4
5	☐	25000.000	26755.540	6333515.60	2.2476	A	3.2
6	☐	50000.000	53360.726	12431093.70	4.4767	A	1.4
7	☐	100000.00	113046.10	25770232.40	9.4774	A	1.6
8	☐	500000.00	496930.13	102823962.9	41.6409	A	1.7

$$y = 8.3785\text{E-}005 * x + 0.0059$$

$$R = 0.9996$$

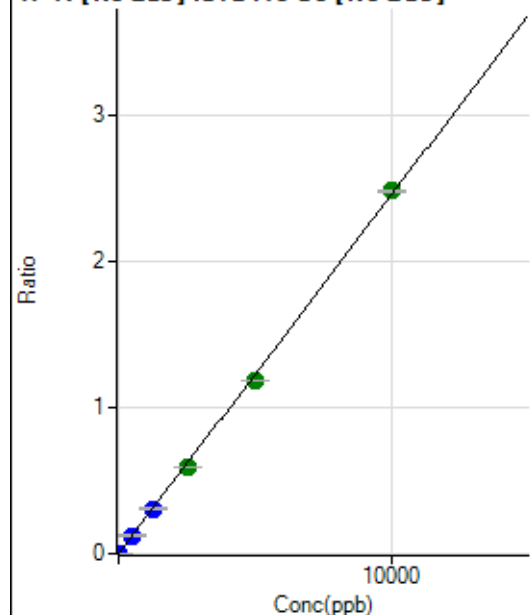
$$DL = 67.08$$

$$BEC = 70.17$$

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	70.00	0.0000	P	31.2
2	☐	5.000	4.658	3546.03	0.0012	P	1.2
3	☐	500.000	508.673	357416.66	0.1248	P	0.7
4	☐	1250.000	1237.721	861285.58	0.3035	P	3.9
5	☐	2500.000	2428.261	1678924.94	0.5955	A	0.5
6	☐	5000.000	4823.516	3284954.22	1.1828	A	0.5
7	☐	10000.000	10107.278	6740685.31	2.4785	A	0.2
8	☐			3658.38	0.0015	P	7.9

$$y = 2.4522\text{E-}004 * x + 1.8614\text{E-}005$$

$$R = 0.9997$$

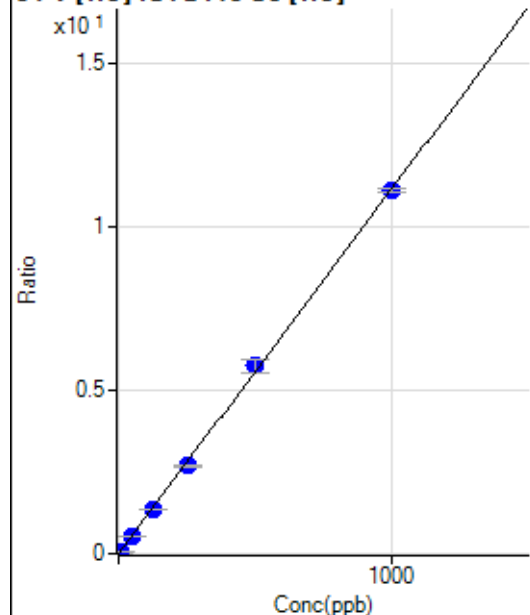
$$DL = 0.07098$$

$$BEC = 0.07591$$

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	11.11	0.0001	P	44.7
2	☐	5.000	4.719	5173.20	0.0526	P	2.8
3	☐	50.000	48.414	50087.15	0.5391	P	0.9
4	☐	125.000	120.547	119314.31	1.3421	P	1.4
5	☐	250.000	240.165	237703.66	2.6737	P	0.7
6	☐	500.000	515.014	469668.77	5.7334	P	7.2
7	☐	1000.000	995.589	961268.95	11.0834	P	1.2
8	☐			970.05	0.0113	P	20.8

$$y = 0.0111 * x + 1.1493\text{E-}004$$

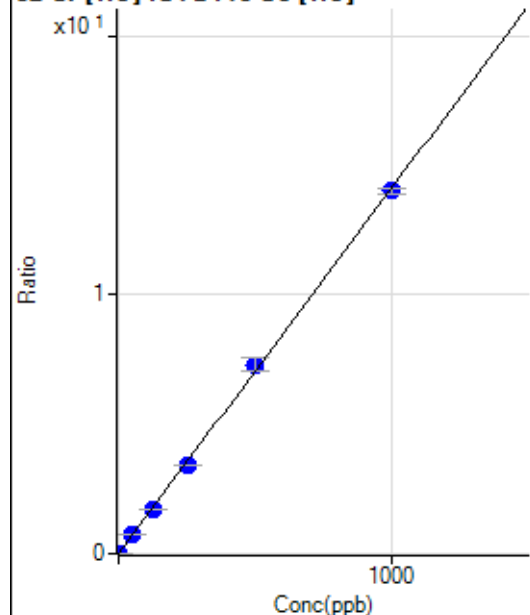
$$R = 0.9998$$

$$DL = 0.01385$$

$$BEC = 0.01032$$

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	553.35	0.0057	P	3.6
2	☐	2.000	1.904	3202.61	0.0326	P	5.6
3	☐	50.000	50.161	66270.24	0.7132	P	1.0
4	☐	125.000	121.872	153322.70	1.7246	P	0.9
5	☐	250.000	242.794	304938.61	3.4302	P	1.2
6	☐	500.000	518.208	599412.45	7.3146	P	6.3
7	☐	1000.000	993.081	1215297.36	14.0124	P	1.3
8	☐			26618.16	0.3106	P	1.0

$$y = 0.0141 * x + 0.0057$$

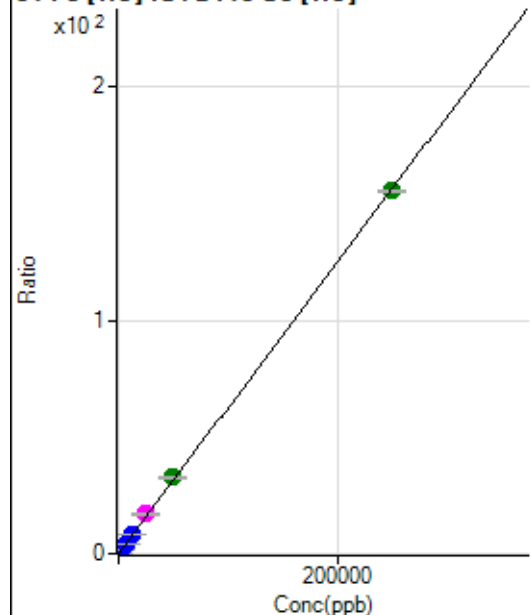
$$R = 0.9997$$

$$DL = 0.04404$$

$$BEC = 0.4068$$

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	211.12	0.0022	P	10.1
2	☐	50.000	48.816	3205.95	0.0326	P	3.8
3	☐	2500.000	2565.383	148834.78	1.6018	P	0.8
4	☐	6250.000	6374.111	353535.16	3.9767	P	0.9
5	☐	12500.000	12704.308	704431.09	7.9238	P	1.0
6	☐	25000.000	27305.066	1394878.83	17.0279	M	7.3
7	☐	50000.000	52551.131	2842219.44	32.7698	A	1.5
8	☐	250000.00	249245.29	13316936.88	155.4160	A	0.7

$$y = 6.2354E-004 * x + 0.0022$$

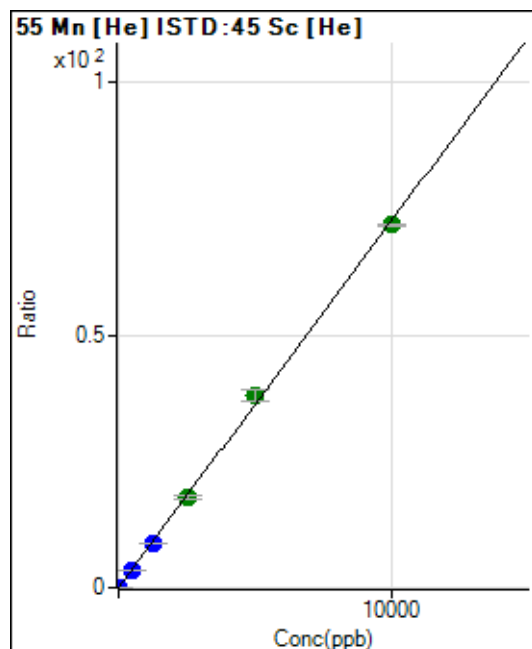
$$R = 0.9999$$

$$DL = 1.062$$

$$BEC = 3.514$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	61.11	0.0006	P	20.3
2	☐	1.000	0.920	718.92	0.0073	P	7.6
3	☐	500.000	491.200	331666.99	3.5695	P	0.8
4	☐	1250.000	1203.402	777365.68	8.7442	P	0.6
5	☐	2500.000	2468.253	1594182.09	17.9342	A	2.5
6	☐	5000.000	5251.965	3128212.17	38.1597	A	5.4
7	☐	10000.000	9888.219	6231257.06	71.8452	A	0.8
8	☐			8725.15	0.1017	P	15.4

$$y = 0.0073 * x + 6.3348E-004$$

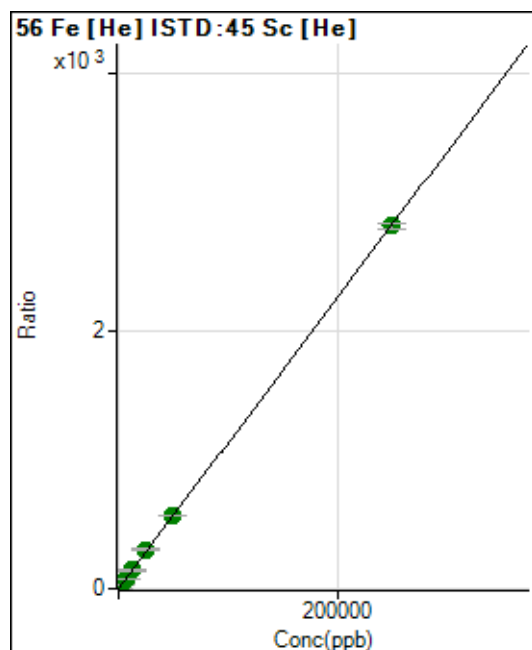
$$R = 0.9995$$

$$DL = 0.05303$$

$$BEC = 0.08719$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1432.31	0.0149	P	10.4
2	☐	50.000	47.896	54574.99	0.5554	P	1.0
3	☐	2500.000	2583.876	2710858.68	29.1755	A	0.4
4	☐	6250.000	6379.380	6401804.70	72.0101	A	0.6
5	☐	12500.000	12606.940	12650521.76	142.2920	A	1.4
6	☐	25000.000	26996.258	24951644.35	304.6843	A	7.9
7	☐	50000.000	50706.393	49633825.37	572.2679	A	0.5
8	☐	250000.00	249649.67	241439538.6	2,817.465	A	1.9

$$y = 0.0113 * x + 0.0149$$

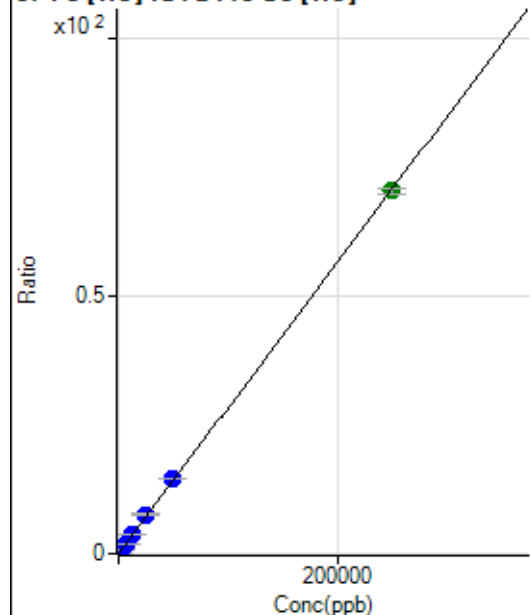
$$R = 1.0000$$

$$DL = 0.411$$

$$BEC = 1.317$$

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	94.44	0.0010	P	23.9
2	☐	50.000	48.044	1428.97	0.0145	P	4.7
3	☐	2500.000	2584.193	67869.43	0.7304	P	0.8
4	☐	6250.000	6394.678	160560.02	1.8060	P	1.0
5	☐	12500.000	12701.564	318826.01	3.5863	P	1.0
6	☐	25000.000	27079.118	626304.74	7.6447	P	6.9
7	☐	50000.000	51820.373	1268767.37	14.6286	P	0.6
8	☐	250000.00	249413.47	6031782.62	70.4042	A	1.8

$$y = 2.8228\text{E-}004 * x + 9.8114\text{E-}004$$

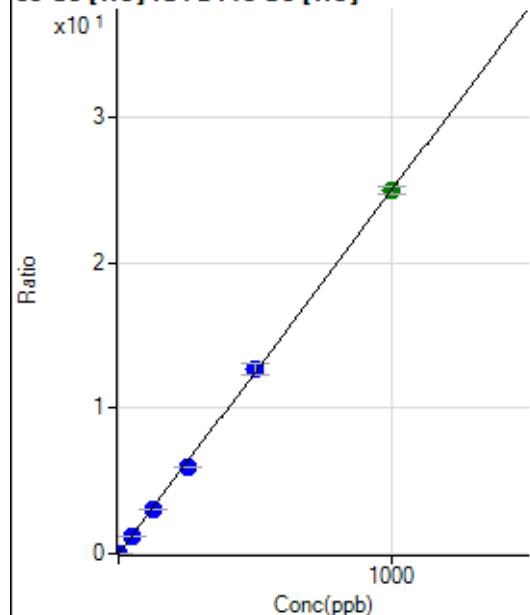
$$R = 0.9999$$

$$DL = 2.489$$

$$BEC = 3.476$$

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	160.00	0.0017	P	5.2
2	☐	1.000	0.971	2548.03	0.0259	P	2.3
3	☐	50.000	49.164	114316.69	1.2304	P	0.9
4	☐	125.000	120.265	267354.99	3.0074	P	0.2
5	☐	250.000	238.156	529279.94	5.9537	P	1.3
6	☐	500.000	509.399	1043333.03	12.7326	P	6.5
7	☐	1000.000	998.895	2165342.71	24.9662	A	2.1
8	☐			6444.87	0.0752	P	4.6

$$y = 0.0250 * x + 0.0017$$

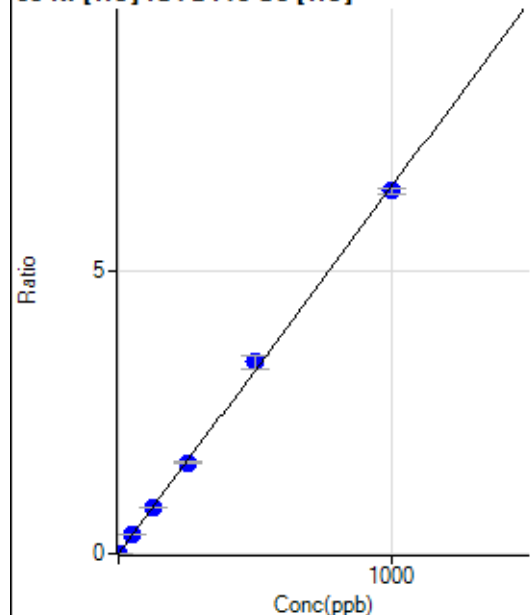
$$R = 0.9999$$

$$DL = 0.01033$$

$$BEC = 0.0664$$

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	57.78	0.0006	P	37.9
2	☐	1.000	1.024	710.03	0.0072	P	5.0
3	☐	50.000	51.689	31126.25	0.3350	P	0.9
4	☐	125.000	125.466	72216.51	0.8123	P	1.7
5	☐	250.000	248.331	142875.45	1.6072	P	1.5
6	☐	500.000	523.538	277537.76	3.3877	P	6.9
7	☐	1000.000	988.506	554717.33	6.3958	P	1.3
8	☐			8093.49	0.0944	P	4.1

$$y = 0.0065 * x + 6.0095E-004$$

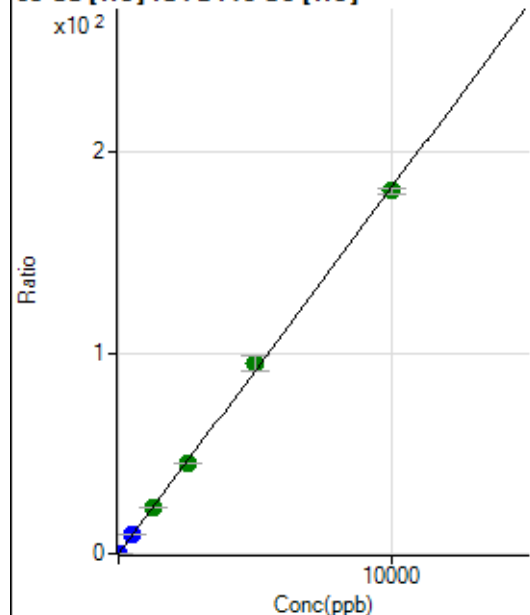
$$R = 0.9996$$

$$DL = 0.1055$$

$$BEC = 0.09289$$

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	857.81	0.0089	P	11.1
2	☐	2.000	1.905	4284.02	0.0436	P	1.9
3	☐	500.000	507.009	859033.46	9.2455	P	0.4
4	☐	1250.000	1265.530	2050441.90	23.0642	A	1.0
5	☐	2500.000	2462.518	3989153.21	44.8709	A	0.7
6	☐	5000.000	5193.410	7748491.41	94.6221	A	8.0
7	☐	10000.000	9910.374	15660428.80	180.5555	A	1.6
8	☐			14430.56	0.1681	P	20.5

$$y = 0.0182 * x + 0.0089$$

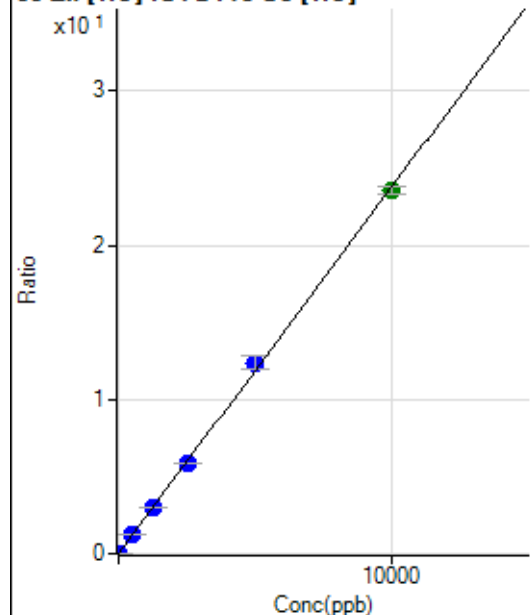
$$R = 0.9997$$

$$DL = 0.162$$

$$BEC = 0.4884$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	265.56	0.0028	P	11.2
2	☐	2.000	5.006	1438.97	0.0146	P	1.2
3	☐	500.000	509.442	112671.46	1.2126	P	0.3
4	☐	1250.000	1237.569	261530.70	2.9418	P	0.7
5	☐	2500.000	2459.033	519428.96	5.8427	P	1.0
6	☐	5000.000	5220.054	1015964.92	12.3998	P	6.7
7	☐	10000.000	9901.296	2039768.60	23.5173	A	2.0
8	☐			3114.84	0.0363	P	14.1

$$y = 0.0024 * x + 0.0028$$

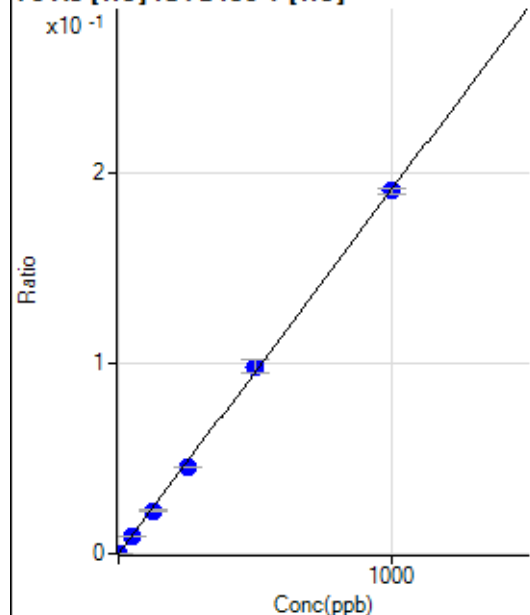
$$R = 0.9996$$

$$DL = 0.3905$$

$$BEC = 1.16$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1.11	0.0000	P	173.2
2	☐	1.000	0.892	110.00	0.0002	P	21.6
3	☐	50.000	46.907	5521.14	0.0090	P	2.5
4	☐	125.000	117.684	13144.00	0.0225	P	2.7
5	☐	250.000	239.230	26836.76	0.0458	P	0.5
6	☐	500.000	513.713	52643.51	0.0984	P	7.0
7	☐	1000.000	996.905	106495.38	0.1909	P	1.9
8	☐			142.22	0.0003	P	26.1

$$y = 1.9149E-004 * x + 1.7606E-006$$

$$R = 0.9998$$

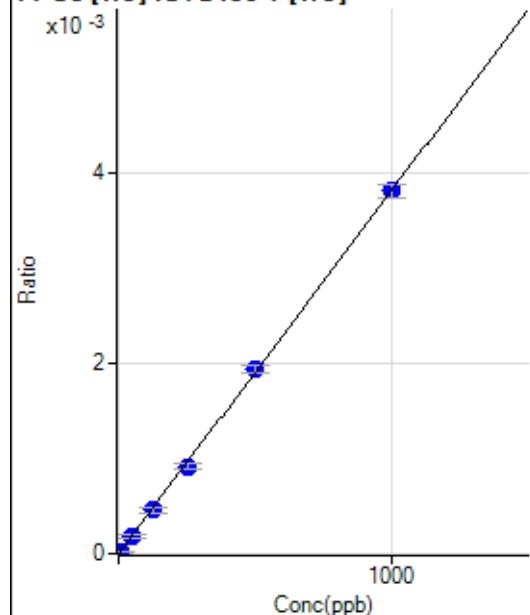
$$DL = 0.04777$$

$$BEC = 0.009194$$

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	2.22	0.0000	P	173.2
2	☐	5.000	5.494	15.55	0.0000	P	44.4
3	☐	50.000	49.030	116.67	0.0002	P	20.5
4	☐	125.000	118.873	265.56	0.0005	P	11.8
5	☐	250.000	240.068	536.68	0.0009	P	6.1
6	☐	500.000	508.131	1037.83	0.0019	P	3.6
7	☐	1000.000	999.229	2121.29	0.0038	P	4.0
8	☐			1.11	0.0000	P	173.2

$$y = 3.8023\text{E-}006 * x + 3.4970\text{E-}006$$

$$R = 0.9999$$

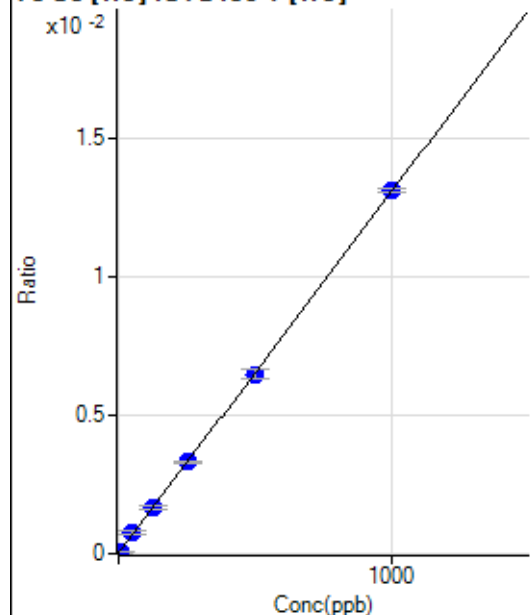
$$DL = 4.779$$

$$BEC = 0.9197$$

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	57.0
2	☐	5.000	4.921	53.33	0.0001	P	19.1
3	☐	50.000	56.635	466.68	0.0008	P	10.9
4	☐	125.000	126.219	973.38	0.0017	P	6.2
5	☐	250.000	252.049	1941.27	0.0033	P	3.0
6	☐	500.000	494.610	3473.79	0.0065	P	5.1
7	☐	1000.000	1001.699	7315.30	0.0131	P	1.2
8	☐			17.78	0.0000	P	77.1

$$y = 1.3072\text{E-}005 * x + 1.9355\text{E-}005$$

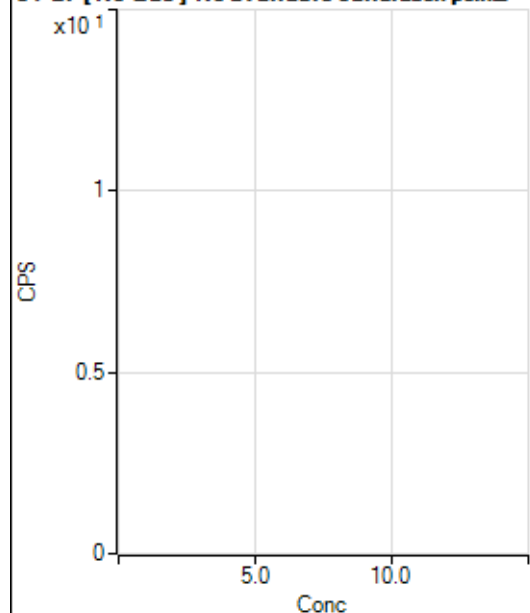
$$R = 1.0000$$

$$DL = 2.532$$

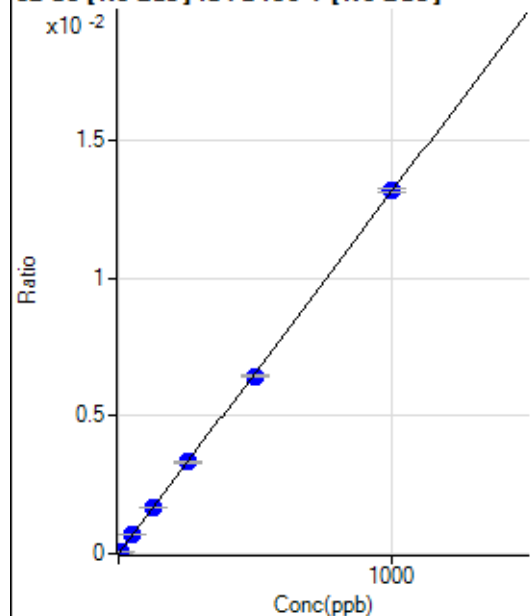
$$BEC = 1.481$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2194.64		P	9.3
2	☐			2279.10		P	4.9
3	☐			2234.65		P	5.1
4	☐			2094.63		P	5.9
5	☐			2020.16		P	6.9
6	☐			1840.14		P	3.2
7	☐			1935.71		P	8.1
8	☐			1684.56		P	3.1

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	-44.45	0.0000	P	-163.
2	☐	5.000	5.422	436.68	0.0001	P	8.0
3	☐	50.000	53.433	4359.67	0.0007	P	5.2
4	☐	125.000	127.387	10315.10	0.0017	P	1.7
5	☐	250.000	252.753	20374.00	0.0033	P	3.1
6	☐	500.000	491.550	39793.46	0.0065	P	1.3
7	☐	1000.000	1003.065	79173.98	0.0132	P	0.9
8	☐			45.55	0.0000	P	74.3

$$y = 1.3143E-005 * x - 4.1124E-006$$

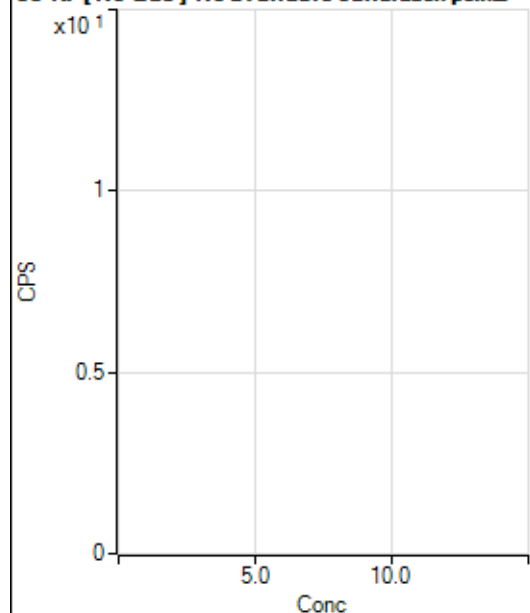
$$R = 0.9999$$

$$DL = 1.537$$

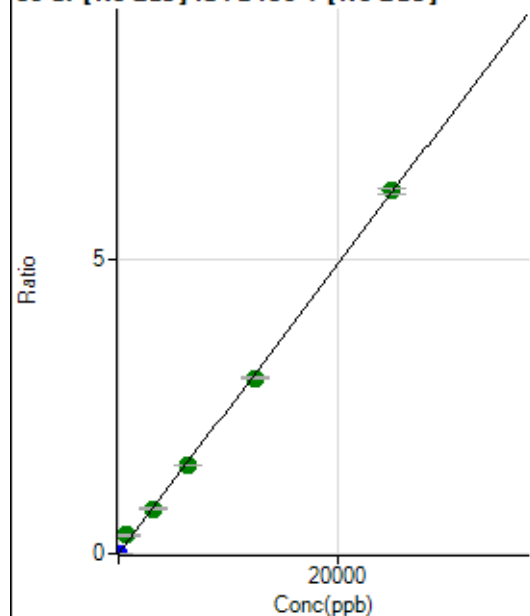
$$BEC = -0.3129$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			437.80		P	60.2
2	☐			157.78		P	2.4
3	☐			168.89		P	8.2
4	☐			126.67		P	7.9
5	☐			133.34		P	7.5
6	☐			130.00		P	10.3
7	☐			142.23		P	5.9
8	☐			126.67		P	9.5

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	693.36	0.0001	P	41.3
2	☐	1.000	0.690	1596.78	0.0002	P	5.1
3	☐	625.000	1288.535	1968140.77	0.3149	A	3.4
4	☐	3125.000	3131.168	4723669.55	0.7652	A	3.7
5	☐	6250.000	6135.285	9209461.39	1.4993	A	1.6
6	☐	12500.000	12193.533	18364161.67	2.9797	A	1.9
7	☐	25000.000	25164.553	36940914.73	6.1492	A	1.6
8	☐			16315.30	0.0030	P	5.7

$$y = 2.4436E-004 * x + 7.7095E-005$$

$$R = 0.9995$$

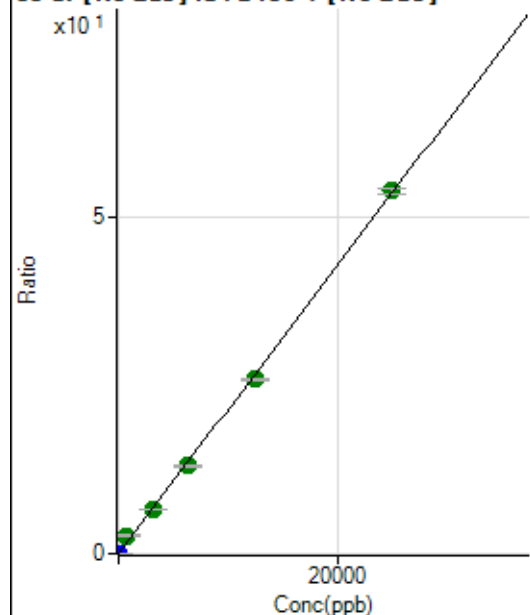
$$DL = 0.3908$$

$$BEC = 0.3155$$

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	485.57	0.0001	P	28.8
2	☐	1.000	0.947	13537.75	0.0021	P	0.5
3	☐	625.000	1254.370	16733361.56	2.6784	A	3.9
4	☐	3125.000	3087.297	40697392.17	6.5920	A	3.3
5	☐	6250.000	6111.616	80181162.14	13.0494	A	1.3
6	☐	12500.000	12133.026	159678695.4	25.9062	A	0.8
7	☐	25000.000	25207.062	323329237.4	53.8215	A	1.3
8	☐			137283.79	0.0254	P	8.7

$$y = 0.0021 * x + 6.0327E-005$$

$$R = 0.9994$$

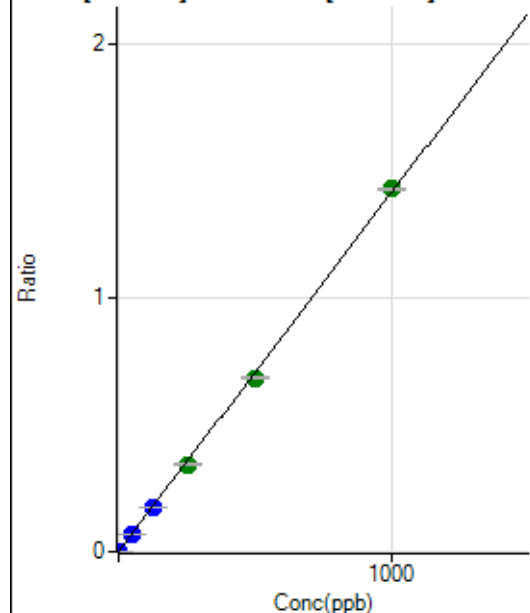
$$DL = 0.02438$$

$$BEC = 0.02825$$

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	438.90	0.0001	P	7.6
2	☐	1.000	0.889	8512.66	0.0013	P	1.7
3	☐	50.000	49.817	440890.44	0.0705	P	2.8
4	☐	125.000	122.728	1072773.74	0.1737	P	2.4
5	☐	250.000	242.642	2109017.62	0.3434	A	2.7
6	☐	500.000	483.365	4216336.50	0.6841	A	1.0
7	☐	1000.000	1010.450	8590638.06	1.4299	A	0.4
8	☐			6354.94	0.0012	P	7.0

$$y = 0.0014 * x + 5.1959E-005$$

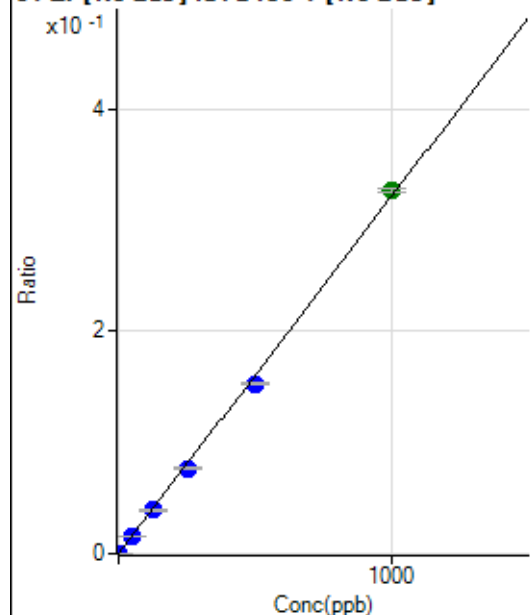
$$R = 0.9998$$

$$DL = 0.00836$$

$$BEC = 0.03672$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	84.45	0.0000	P	13.1
2	☐	1.000	0.912	1965.72	0.0003	P	2.9
3	☐	50.000	48.713	97736.65	0.0156	P	3.2
4	☐	125.000	122.387	242464.56	0.0393	P	4.2
5	☐	250.000	239.186	471461.00	0.0768	P	2.1
6	☐	500.000	474.294	938137.66	0.1522	P	1.3
7	☐	1000.000	1015.947	1958512.25	0.3260	A	1.1
8	☐			1407.87	0.0003	P	8.1

$$y = 3.2089\text{E-}004 * x + 9.7833\text{E-}006$$

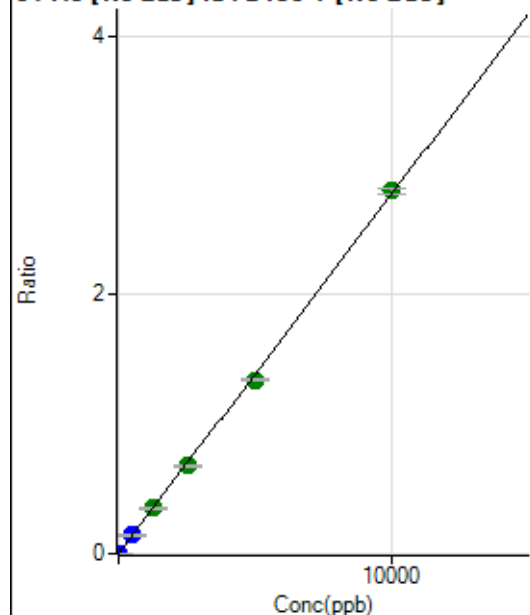
$$R = 0.9994$$

$$DL = 0.01199$$

$$BEC = 0.03049$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	120.00	0.0000	P	33.1
2	☐	5.000	5.503	10022.58	0.0015	P	1.5
3	☐	500.000	510.404	885666.39	0.1417	P	3.4
4	☐	1250.000	1274.631	2184879.03	0.3540	A	4.1
5	☐	2500.000	2456.617	4190098.41	0.6822	A	2.1
6	☐	5000.000	4836.971	8278668.90	1.3432	A	1.3
7	☐	10000.000	10088.761	16830141.97	2.8016	A	1.5
8	☐			12529.59	0.0023	P	8.3

$$y = 2.7769\text{E-}004 * x + 1.3444\text{E-}005$$

$$R = 0.9998$$

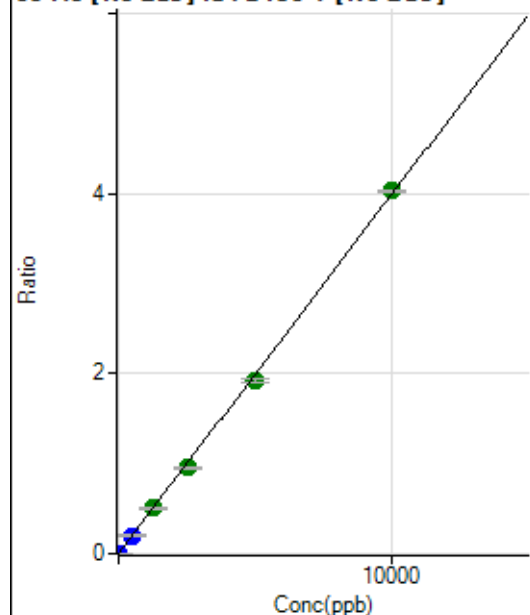
$$DL = 0.04805$$

$$BEC = 0.04841$$

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	25.56	0.0000	P	7.9
2	☐	5.000	4.708	12237.69	0.0019	P	1.0
3	☐	500.000	504.912	1259823.22	0.2016	P	3.0
4	☐	1250.000	1265.060	3118091.38	0.5051	A	3.7
5	☐	2500.000	2405.334	5899432.90	0.9604	A	2.1
6	☐	5000.000	4831.899	11890205.93	1.9293	A	1.9
7	☐	10000.000	10105.589	24239970.19	4.0349	A	0.6
8	☐			17012.48	0.0031	P	1.1

$$y = 3.9928\text{E-}004 * x + 2.9848\text{E-}006$$

$$R = 0.9997$$

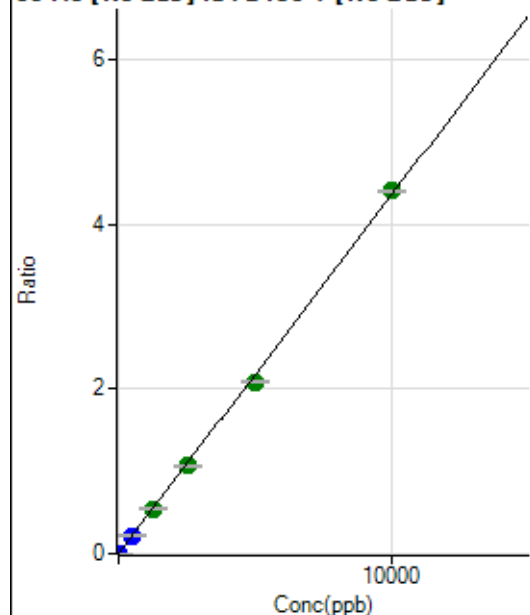
$$DL = 0.001776$$

$$BEC = 0.007476$$

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	82.22	0.0000	P	27.6
2	☐	5.000	4.777	13601.18	0.0021	P	3.1
3	☐	500.000	501.117	1364616.34	0.2184	P	3.5
4	☐	1250.000	1257.073	3382616.79	0.5479	A	3.1
5	☐	2500.000	2443.957	6541142.33	1.0651	A	2.7
6	☐	5000.000	4795.052	12880043.70	2.0898	A	1.4
7	☐	10000.000	10115.545	26484521.83	4.4085	A	0.6
8	☐			18746.07	0.0035	P	2.9

$$y = 4.3582\text{E-}004 * x + 1.0214\text{E-}005$$

$$R = 0.9997$$

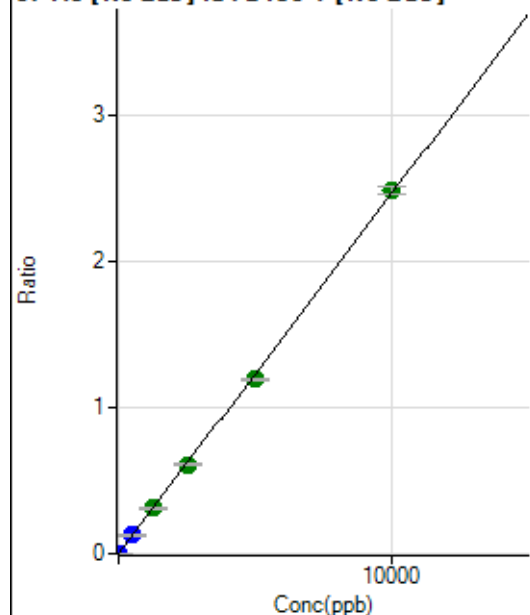
$$DL = 0.01941$$

$$BEC = 0.02344$$

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	24.44	0.0000	P	24.6
2	☐	5.000	4.878	7816.72	0.0012	P	2.4
3	☐	500.000	511.963	786634.14	0.1259	P	2.7
4	☐	1250.000	1271.654	1929912.49	0.3126	A	3.9
5	☐	2500.000	2473.603	3734609.15	0.6082	A	2.9
6	☐	5000.000	4838.067	7331065.65	1.1895	A	1.6
7	☐	10000.000	10084.261	14893976.58	2.4793	A	2.1
8	☐			10328.69	0.0019	P	4.1

$$y = 2.4586E-004 * x + 2.9059E-006$$

$$R = 0.9998$$

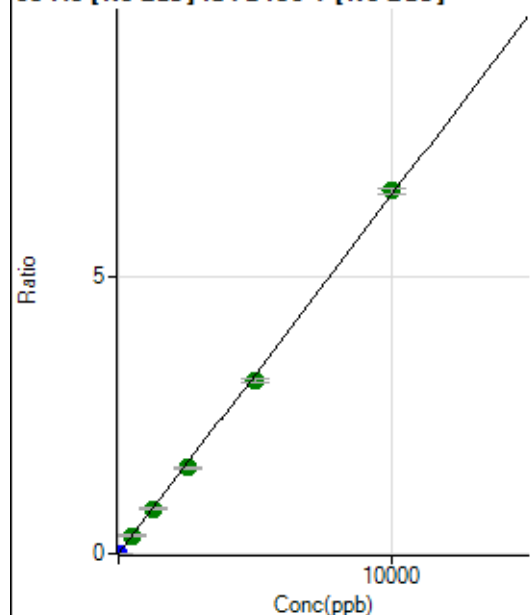
$$DL = 0.00873$$

$$BEC = 0.01182$$

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	58.89	0.0000	P	35.5
2	☐	5.000	4.592	19361.39	0.0030	P	1.4
3	☐	500.000	506.175	2047288.32	0.3276	A	2.6
4	☐	1250.000	1241.199	4958110.00	0.8032	A	3.9
5	☐	2500.000	2403.489	9552862.43	1.5554	A	2.3
6	☐	5000.000	4813.484	19198668.60	3.1150	A	1.7
7	☐	10000.000	10118.177	39335568.02	6.5478	A	1.4
8	☐			26256.04	0.0049	P	3.7

$$y = 6.4713E-004 * x + 6.5864E-006$$

$$R = 0.9997$$

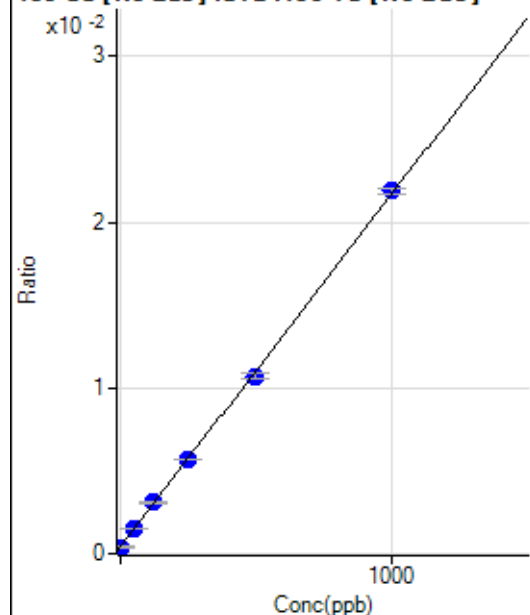
$$DL = 0.01083$$

$$BEC = 0.01018$$

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	3270.45	0.0004	P	3.4
2	☐	1.000	0.615	2628.05	0.0004	P	7.4
3	☐	50.000	51.450	9676.81	0.0015	P	0.8
4	☐	125.000	126.945	19967.83	0.0031	P	1.3
5	☐	250.000	249.525	37496.50	0.0057	P	0.7
6	☐	500.000	483.891	70417.35	0.0107	P	3.2
7	☐	1000.000	1007.858	140376.87	0.0219	P	1.7
8	☐			1909.04	0.0003	P	5.3

$$y = 2.1333\text{E-}005 * x + 3.7890\text{E-}004$$

$$R = 0.9998$$

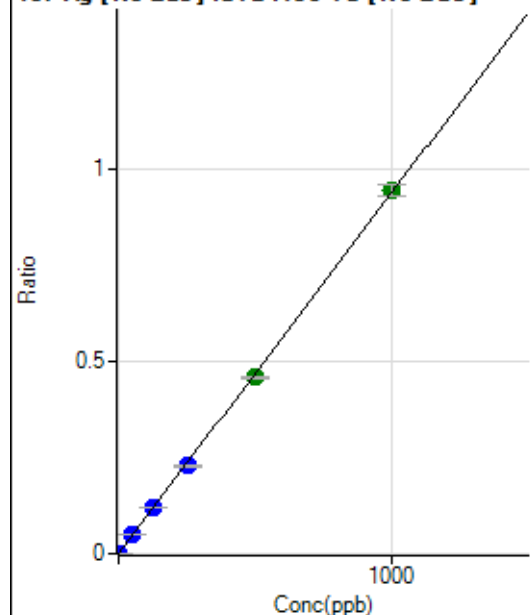
$$DL = 1.815$$

$$BEC = 17.76$$

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	105.56	0.0000	P	38.9
2	☐	1.000	0.957	6096.96	0.0009	P	2.2
3	☐	50.000	52.312	321728.25	0.0491	P	2.2
4	☐	125.000	127.368	773010.54	0.1195	P	1.4
5	☐	250.000	244.311	1507264.16	0.2293	P	2.2
6	☐	500.000	489.056	3021078.77	0.4590	A	1.6
7	☐	1000.000	1006.483	6059223.10	0.9446	A	3.1
8	☐			1232.29	0.0002	P	3.8

$$y = 9.3848\text{E-}004 * x + 1.1571\text{E-}005$$

$$R = 0.9999$$

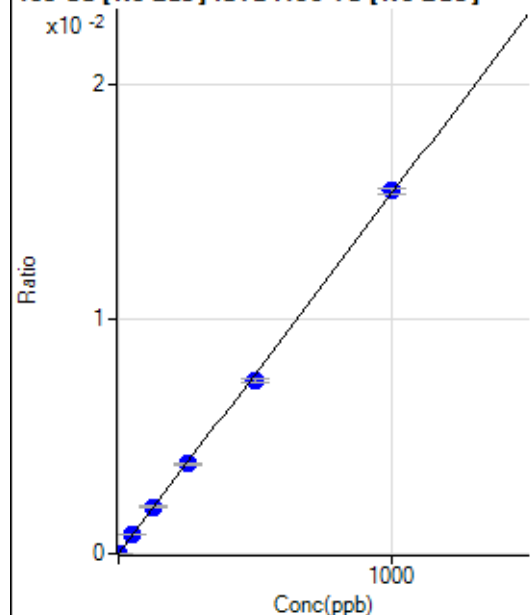
$$DL = 0.0144$$

$$BEC = 0.01233$$

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	15.56	0.0000	P	7.4
2	☐	1.000	0.890	103.33	0.0000	P	14.5
3	☐	50.000	52.832	5322.19	0.0008	P	1.4
4	☐	125.000	129.394	12843.84	0.0020	P	2.8
5	☐	250.000	249.150	25132.97	0.0038	P	2.4
6	☐	500.000	482.546	48730.40	0.0074	P	1.8
7	☐	1000.000	1008.249	99236.14	0.0155	P	1.8
8	☐			145.56	0.0000	P	36.0

$$y = 1.5339\text{E-}005 * x + 1.7693\text{E-}006$$

$$R = 0.9998$$

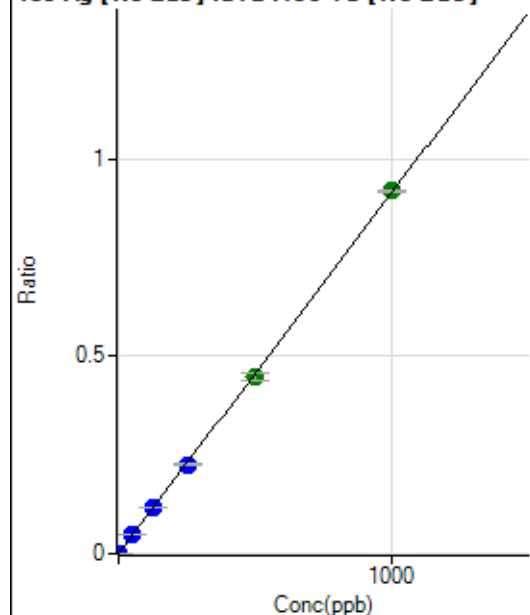
$$DL = 0.02562$$

$$BEC = 0.1153$$

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	41.11	0.0000	P	76.9
2	☐	1.000	0.966	5949.12	0.0009	P	2.3
3	☐	50.000	52.303	313477.48	0.0478	P	2.4
4	☐	125.000	128.896	762349.61	0.1179	P	2.3
5	☐	250.000	246.117	1480043.92	0.2251	P	1.8
6	☐	500.000	489.620	2946559.64	0.4479	A	3.9
7	☐	1000.000	1005.559	5901835.26	0.9198	A	0.8
8	☐			1206.74	0.0002	P	6.7

$$y = 9.1472\text{E-}004 * x + 4.4868\text{E-}006$$

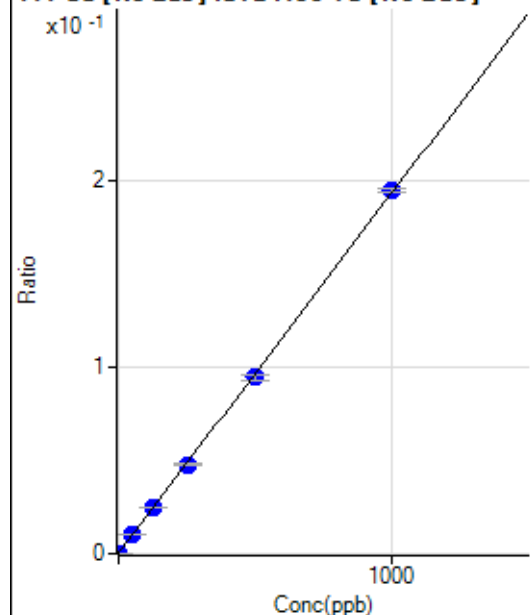
$$R = 0.9999$$

$$DL = 0.01132$$

$$BEC = 0.004905$$

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	2297.31	0.0003	P	3.4
2	☐	1.000	0.986	3060.71	0.0005	P	5.9
3	☐	50.000	52.194	67803.12	0.0103	P	1.5
4	☐	125.000	128.901	162729.86	0.0252	P	0.5
5	☐	250.000	245.736	313759.95	0.0477	P	2.2
6	☐	500.000	487.543	621433.53	0.0944	P	2.8
7	☐	1000.000	1006.697	1249266.87	0.1947	P	1.2
8	☐			1824.46	0.0003	P	5.7

$$y = 1.9315E-004 * x + 2.6614E-004$$

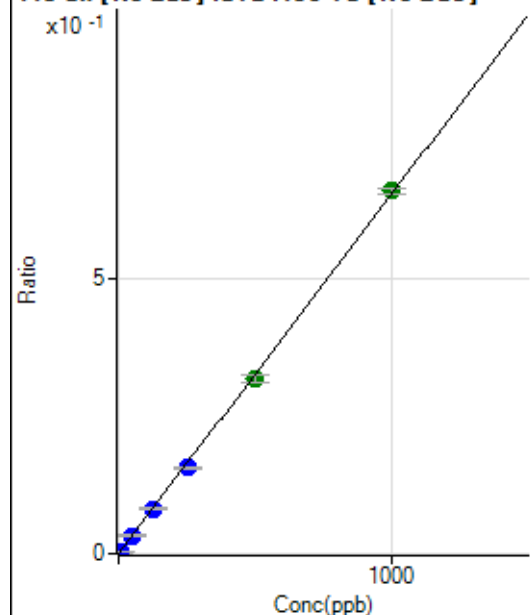
$$R = 0.9999$$

$$DL = 0.1421$$

$$BEC = 1.378$$

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	534.46	0.0001	P	17.6
2	☐	5.000	4.771	21257.72	0.0032	P	2.1
3	☐	50.000	50.253	214910.20	0.0328	P	2.6
4	☐	125.000	124.723	525865.58	0.0813	P	1.7
5	☐	250.000	239.354	1025540.42	0.1560	P	2.3
6	☐	500.000	486.736	2086971.31	0.3172	A	3.6
7	☐	1000.000	1009.317	4219561.15	0.6577	A	1.8
8	☐			5122.15	0.0009	P	0.8

$$y = 6.5155E-004 * x + 6.3455E-005$$

$$R = 0.9998$$

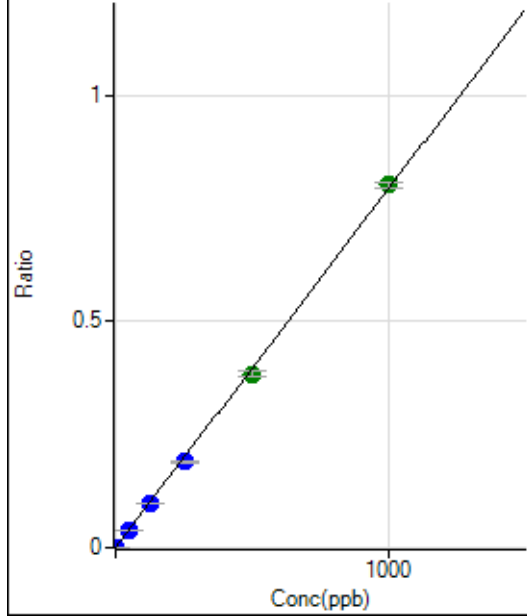
$$DL = 0.05145$$

$$BEC = 0.09739$$

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	82.22	0.0000	P	18.9
2	☐	2.000	1.880	10049.34	0.0015	P	1.8
3	☐	50.000	50.111	260333.00	0.0397	P	2.7
4	☐	125.000	123.538	633443.77	0.0980	P	1.1
5	☐	250.000	240.113	1251575.14	0.1904	P	1.9
6	☐	500.000	483.892	2524404.89	0.3837	A	3.3
7	☐	1000.000	1010.703	5141789.86	0.8013	A	1.5
8	☐			5009.89	0.0008	P	4.3

$$y = 7.9285\text{E-}004 * x + 9.1916\text{E-}006$$

$$R = 0.9997$$

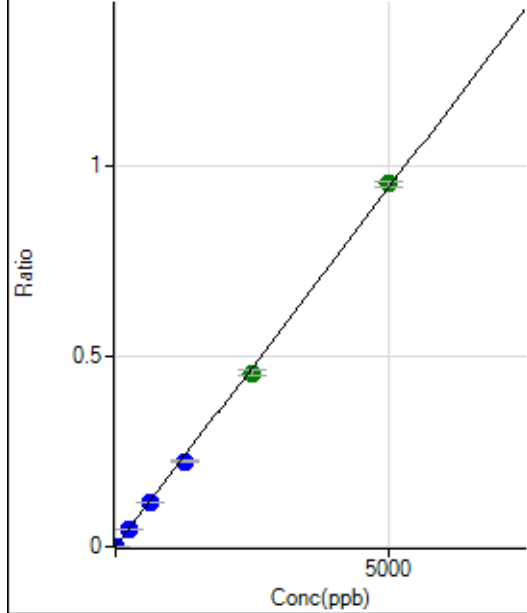
$$DL = 0.006587$$

$$BEC = 0.01159$$

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	95.56	0.0000	P	17.5
2	☐	10.000	9.456	12039.87	0.0018	P	2.8
3	☐	250.000	248.526	307453.54	0.0469	P	2.8
4	☐	625.000	612.999	748475.30	0.1158	P	1.6
5	☐	1250.000	1187.348	1473560.57	0.2242	P	2.7
6	☐	2500.000	2417.049	3002980.34	0.4564	A	3.3
7	☐	5000.000	5058.713	6127899.35	0.9551	A	1.9
8	☐			4021.82	0.0007	P	1.1

$$y = 1.8881\text{E-}004 * x + 1.1348\text{E-}005$$

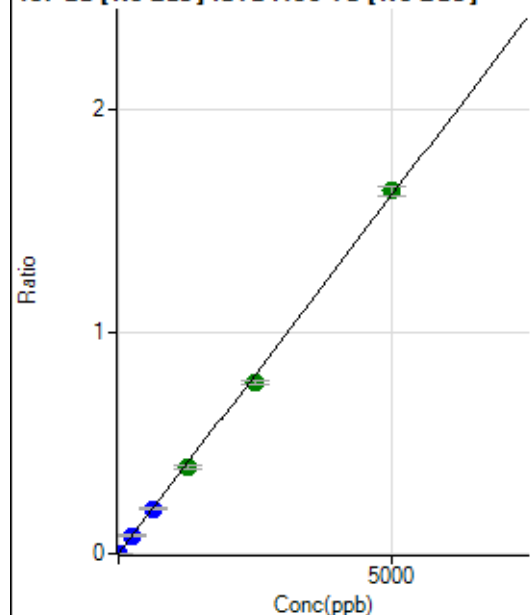
$$R = 0.9997$$

$$DL = 0.03148$$

$$BEC = 0.0601$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	84.45	0.0000	P	35.1
2	☐	10.000	9.421	20463.36	0.0031	P	2.3
3	☐	250.000	253.667	536871.46	0.0819	P	2.2
4	☐	625.000	627.569	1310885.68	0.2027	P	1.2
5	☐	1250.000	1206.868	2562477.18	0.3898	A	2.6
6	☐	2500.000	2395.181	5091637.60	0.7737	A	2.3
7	☐	5000.000	5062.689	10490758.59	1.6353	A	2.4
8	☐			6957.66	0.0012	P	3.5

$$y = 3.2300\text{E-}004 * x + 1.0255\text{E-}005$$

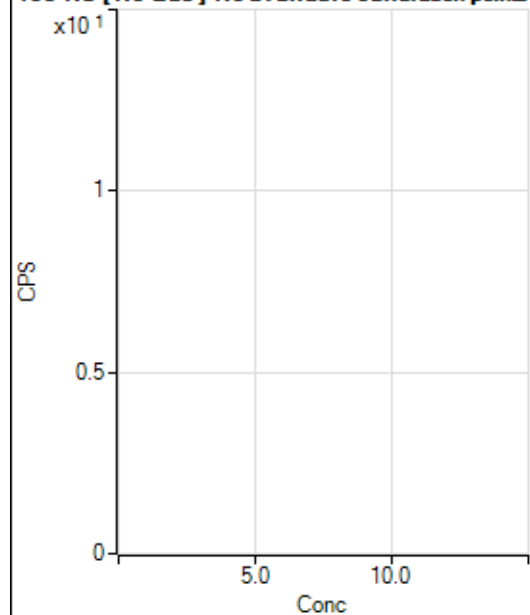
$$R = 0.9996$$

$$DL = 0.03348$$

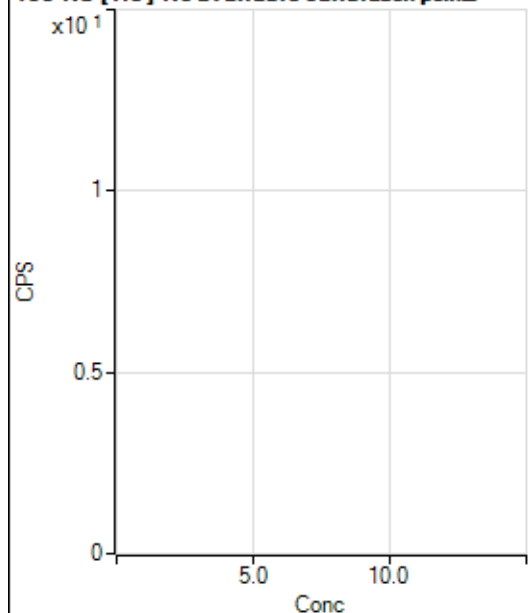
$$BEC = 0.03175$$

Weight: <None>

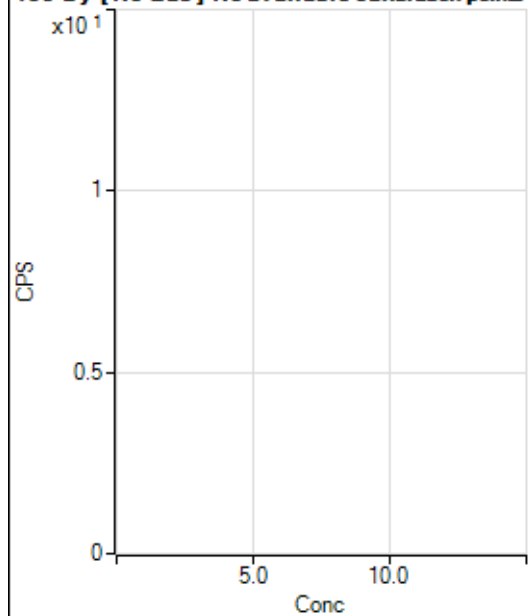
Min Conc: 0

150 Nd [No Gas] No available calibration points

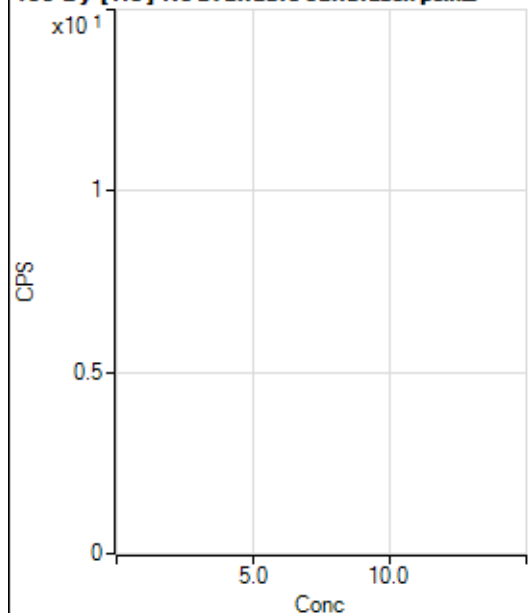
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			12.22		P	56.8
2	☐			11.11		P	45.8
3	☐			21.11		P	9.1
4	☐			71.11		P	26.7
5	☐			151.12		P	8.9
6	☐			262.23		P	21.2
7	☐			466.68		P	8.1
8	☐			107.78		P	25.8

150 Nd [He] No available calibration points

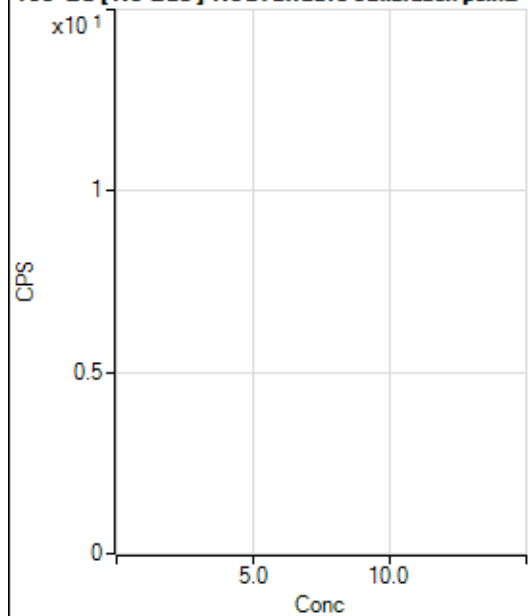
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			1.11		P	173.2
3	☐			4.44		P	43.4
4	☐			7.78		P	49.5
5	☐			8.89		P	21.6
6	☐			34.44		P	43.6
7	☐			73.33		P	27.7
8	☐			43.33		P	7.7

156 Dy [No Gas] No available calibration points

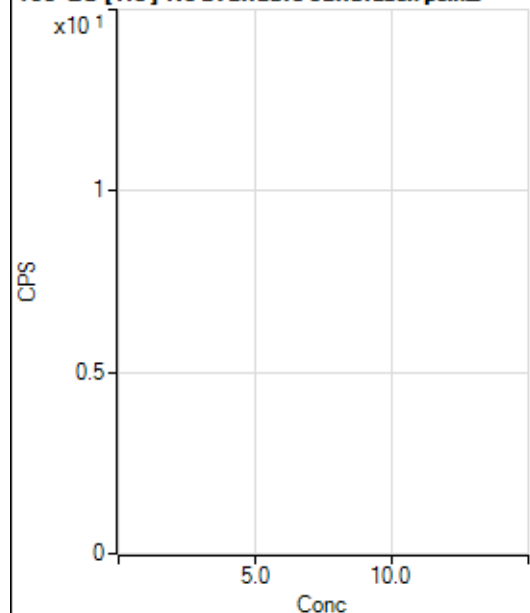
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.55		P	124.9
2	☐			15.56		P	12.4
3	☐			38.89		P	17.8
4	☐			45.56		P	11.2
5	☐			135.56		P	7.9
6	☐			195.56		P	14.5
7	☐			397.79		P	7.8
8	☐			180.00		P	8.1

156 Dy [He] No available calibration points

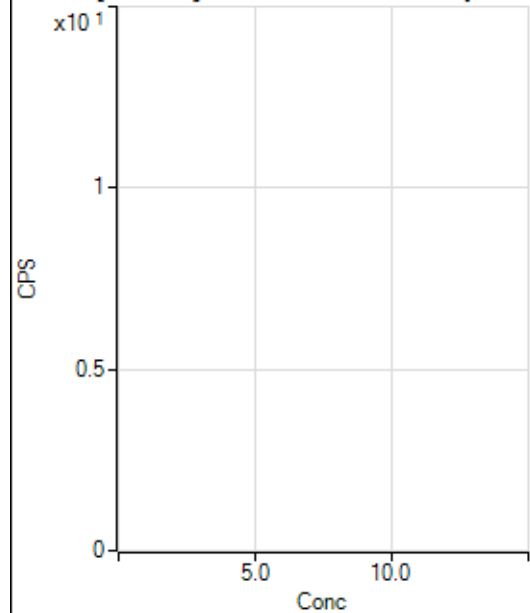
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.2
2	☐			4.44		P	43.4
3	☐			10.00		P	33.3
4	☐			27.78		P	50.0
5	☐			41.11		P	26.1
6	☐			107.78		P	1.8
7	☐			203.34		P	14.0
8	☐			74.44		P	12.9

160 Gd [No Gas] Noavailable calibration poin_

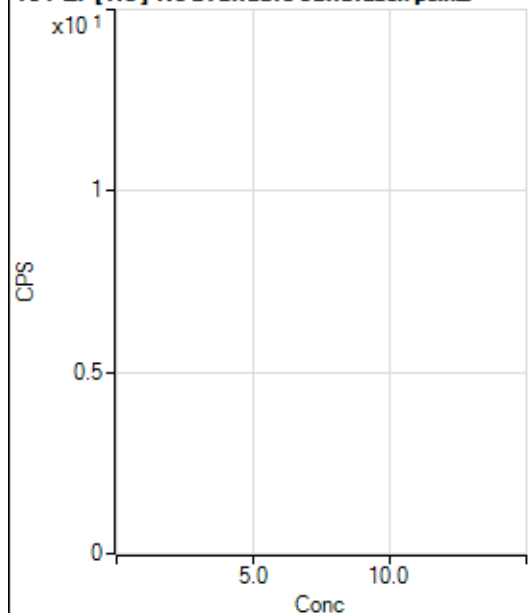
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			106.67		P	33.8
2	☐			77.78		P	29.2
3	☐			95.56		P	19.2
4	☐			126.67		P	13.9
5	☐			162.23		P	14.6
6	☐			225.56		P	10.1
7	☐			450.01		P	7.1
8	☐			203.34		P	16.1

160 Gd [He] No available calibration points

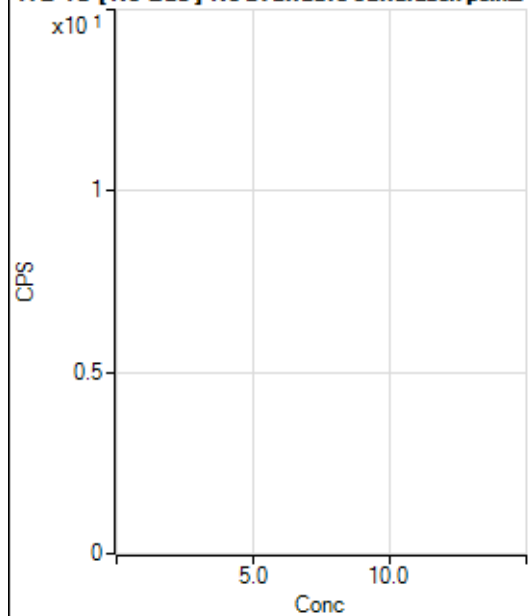
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			128.89		P	12.8
2	☐			97.78		P	12.0
3	☐			114.44		P	23.5
4	☐			107.78		P	14.6
5	☐			136.67		P	25.8
6	☐			137.78		P	7.0
7	☐			260.00		P	17.2
8	☐			164.45		P	10.0

164 Er [No Gas] No available calibration points

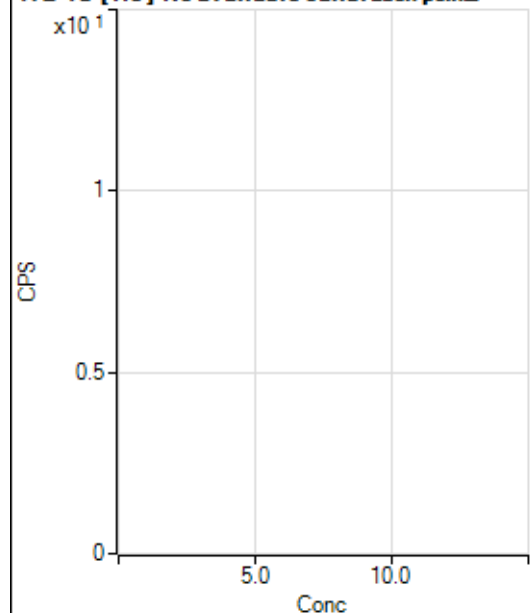
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			78.89		P	23.3
2	☐			46.67		P	25.8
3	☐			37.78		P	28.4
4	☐			53.33		P	22.5
5	☐			96.67		P	19.2
6	☐			146.67		P	14.9
7	☐			235.56		P	21.5
8	☐			198.89		P	5.4

164 Er [He] No available calibration points

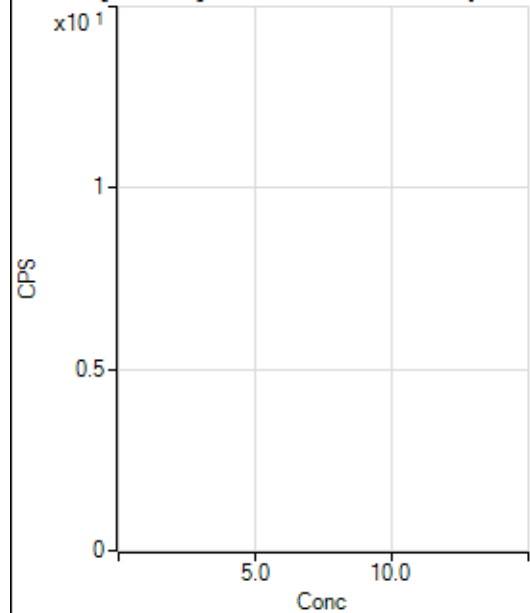
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			7.78		P	65.5
2	☐			16.67		P	20.0
3	☐			22.22		P	45.8
4	☐			24.45		P	28.4
5	☐			31.11		P	22.3
6	☐			41.11		P	33.8
7	☐			76.67		P	4.4
8	☐			83.34		P	31.2

172 Yb [No Gas] No available calibration points

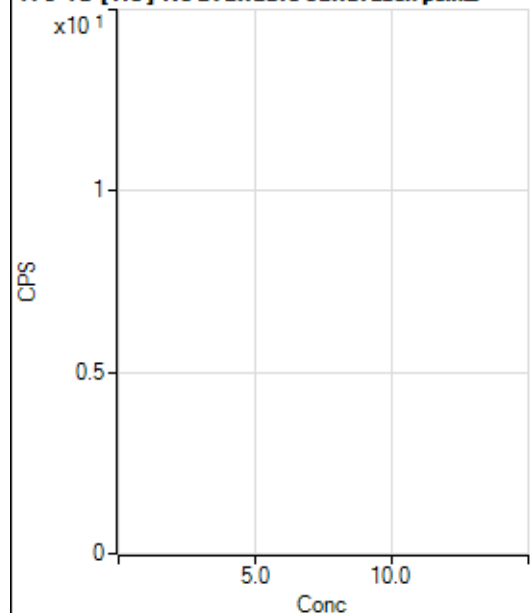
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			48.89		P	44.4
2	☐			38.89		P	26.2
3	☐			44.45		P	35.4
4	☐			63.34		P	18.2
5	☐			81.11		P	23.4
6	☐			136.67		P	22.0
7	☐			191.12		P	11.9
8	☐			256.67		P	11.5

172 Yb [He] No available calibration points

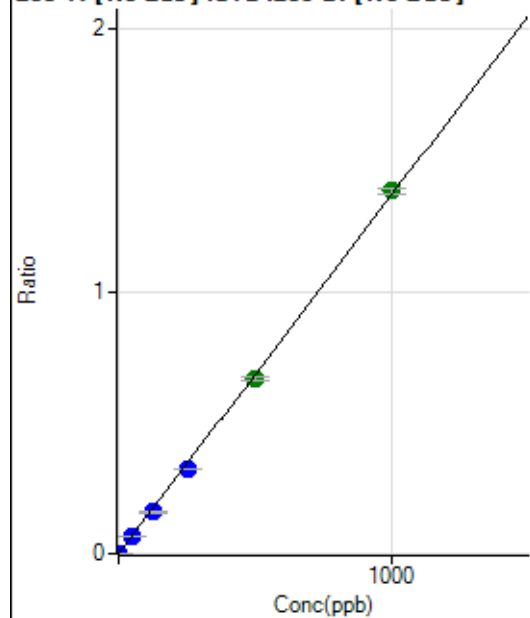
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			18.89		P	27.0
2	☐			22.22		P	17.3
3	☐			22.22		P	31.2
4	☐			27.78		P	13.9
5	☐			27.78		P	30.2
6	☐			37.78		P	28.4
7	☐			81.11		P	15.6
8	☐			123.33		P	33.2

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1569.01		P	30.6
2	☐			1124.51		P	3.8
3	☐			2332.45		P	5.9
4	☐			3983.98		P	1.0
5	☐			7157.57		P	2.2
6	☐			13455.84		P	1.7
7	☐			26675.95		P	1.4
8	☐			1021.16		P	6.2

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8330.47		P	2.5
2	☐			8838.60		P	2.0
3	☐			8846.36		P	0.2
4	☐			9211.08		P	0.9
5	☐			10450.90		P	3.3
6	☐			11952.18		P	3.4
7	☐			17226.91		P	1.1
8	☐			8023.62		P	2.5

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	462.24	0.0001	P	17.9
2	☐	1.000	0.849	5775.79	0.0012	P	5.0
3	☐	50.000	47.786	292819.57	0.0654	P	3.4
4	☐	125.000	117.137	721358.65	0.1602	P	4.8
5	☐	250.000	234.402	1428660.12	0.3204	P	0.8
6	☐	500.000	486.331	3018210.86	0.6647	A	2.2
7	☐	1000.000	1011.828	5949559.56	1.3829	A	1.8
8	☐			3377.19	0.0009	P	4.3

$$y = 0.0014 * x + 7.8162E-005$$

$$R = 0.9997$$

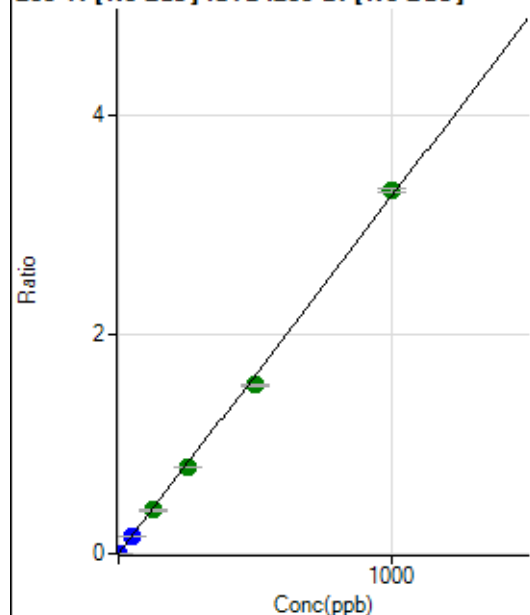
$$DL = 0.03071$$

$$BEC = 0.05719$$

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	1103.40	0.0002	P	1.8
2	☐	1.000	0.889	14319.12	0.0031	P	5.4
3	☐	50.000	48.104	701145.16	0.1566	P	3.2
4	☐	125.000	122.122	1790244.42	0.3972	A	3.0
5	☐	250.000	242.110	3510686.30	0.7873	A	0.3
6	☐	500.000	473.000	6982970.73	1.5380	A	0.8
7	☐	1000.000	1015.927	14211144.93	3.3032	A	1.1
8	☐			8067.25	0.0022	P	4.5

$$y = 0.0033 * x + 1.8112E-004$$

$$R = 0.9994$$

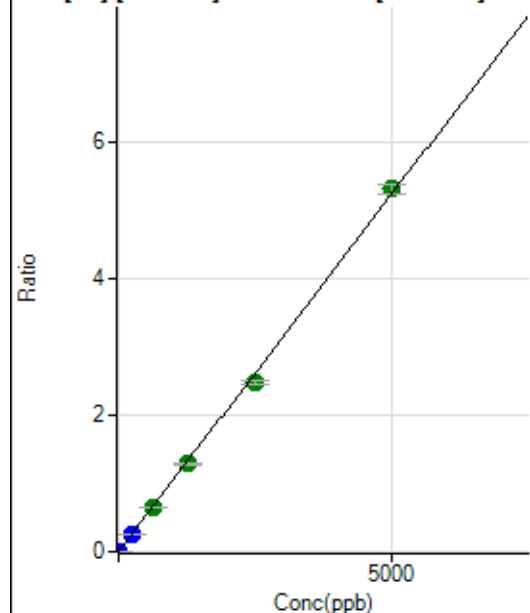
$$DL = 0.003077$$

$$BEC = 0.05571$$

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	1413.47	0.0002	P	4.1
2	☐	1.000	0.906	5493.44	0.0012	P	3.4
3	☐	250.000	242.185	1135178.59	0.2535	P	3.1
4	☐	625.000	622.982	2937488.91	0.6517	A	2.5
5	☐	1250.000	1227.879	5727025.68	1.2843	A	1.3
6	☐	2500.000	2359.785	11205597.61	2.4681	A	2.4
7	☐	5000.000	5076.281	22834113.83	5.3090	A	3.0
8	☐			12445.60	0.0033	P	5.6

$$y = 0.0010 * x + 2.2974E-004$$

$$R = 0.9994$$

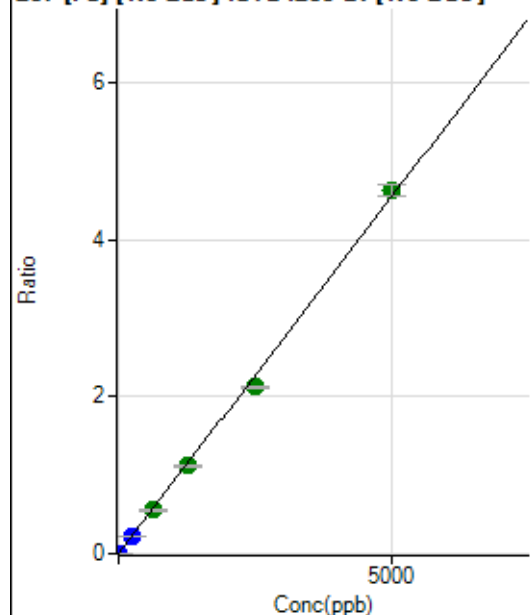
$$DL = 0.02702$$

$$BEC = 0.2197$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1261.23	0.0002	P	18.8
2	☐	1.000	0.902	4757.59	0.0010	P	5.4
3	☐	250.000	245.548	999583.11	0.2232	P	2.6
4	☐	625.000	618.826	2532301.79	0.5622	A	4.4
5	☐	1250.000	1231.297	4986359.37	1.1184	A	1.4
6	☐	2500.000	2340.769	9651883.33	2.1260	A	1.3
7	☐	5000.000	5085.286	19863481.51	4.6184	A	3.1
8	☐			11170.08	0.0030	P	1.1

$$y = 9.0815\text{E-}004 * x + 2.0100\text{E-}004$$

$$R = 0.9993$$

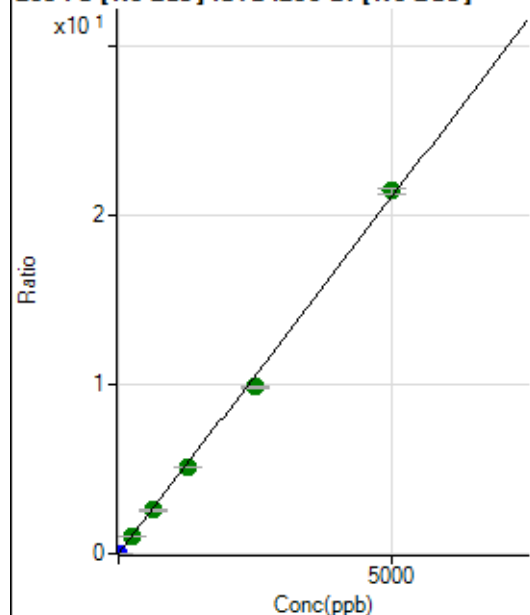
$$DL = 0.1251$$

$$BEC = 0.2213$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	5631.91	0.0009	P	8.5
2	☐	1.000	0.891	21739.56	0.0047	P	3.2
3	☐	250.000	246.538	4648502.43	1.0380	A	3.0
4	☐	625.000	614.641	11651407.14	2.5865	A	4.2
5	☐	1250.000	1212.267	22741313.90	5.1006	A	0.8
6	☐	2500.000	2344.137	44774840.58	9.8621	A	1.1
7	☐	5000.000	5088.833	92093514.04	21.4083	A	1.7
8	☐			50159.05	0.0134	P	3.3

$$y = 0.0042 * x + 9.1004\text{E-}004$$

$$R = 0.9993$$

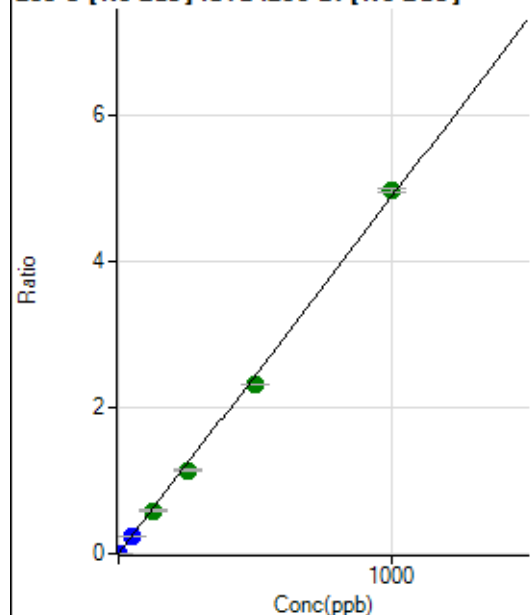
$$DL = 0.05546$$

$$BEC = 0.2163$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	114.45	0.0000	P	30.4
2	☐	1.000	0.848	19394.92	0.0042	P	3.0
3	☐	50.000	46.692	1020453.13	0.2279	P	3.2
4	☐	125.000	121.319	2668622.84	0.5921	A	2.7
5	☐	250.000	234.319	5098783.81	1.1436	A	0.8
6	☐	500.000	474.461	10513395.68	2.3155	A	0.7
7	☐	1000.000	1017.315	21363083.15	4.9648	A	1.0
8	☐			9849.38	0.0026	P	1.7

$$y = 0.0049 * x + 1.7772E-005$$

$$R = 0.9994$$

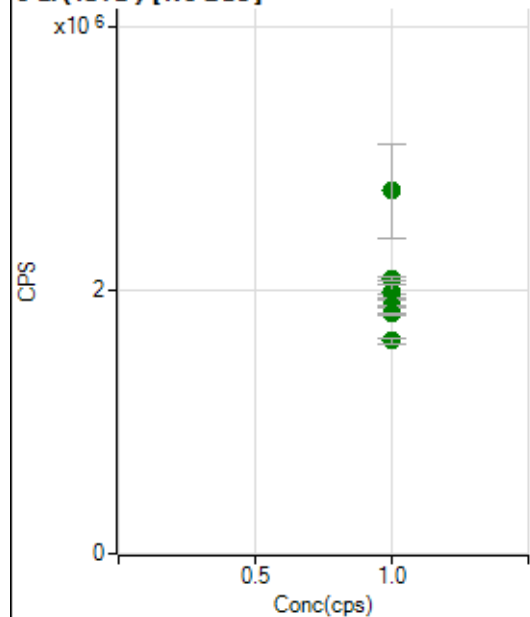
$$DL = 0.003326$$

$$BEC = 0.003642$$

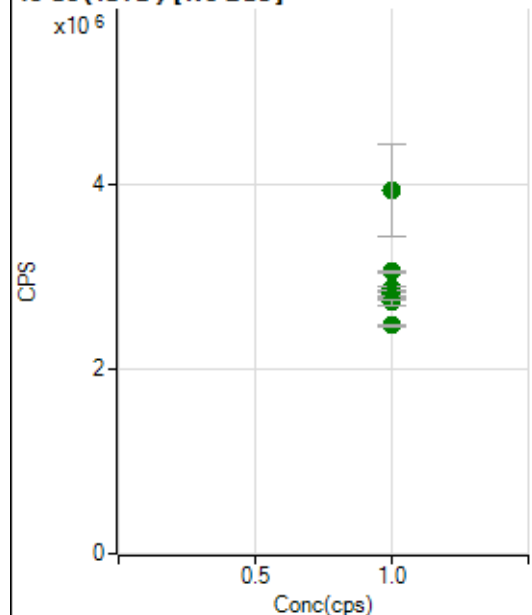
Weight: <None>

Min Conc: 0

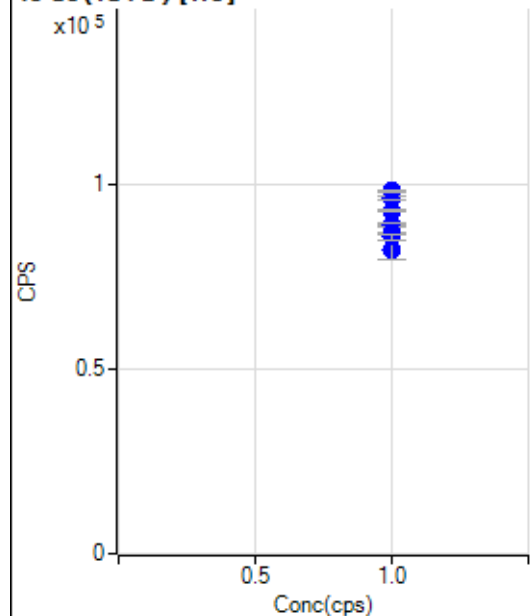
6 Li (ISTD) [No Gas]



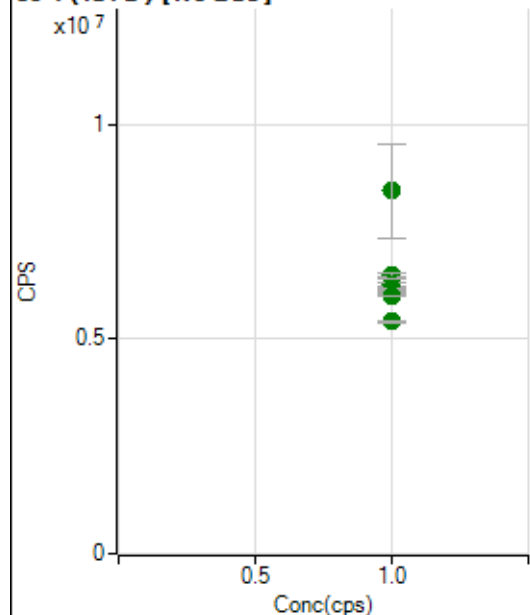
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2758174.18		A	26.3
2	☐	1.000		2086113.67		A	1.2
3	☐	1.000		1990125.85		A	5.7
4	☐	1.000		1933131.39		A	4.4
5	☐	1.000		1941238.15		A	1.0
6	☐	1.000		1881440.54		A	1.0
7	☐	1.000		1825625.06		A	0.9
8	☐	1.000		1616361.24		A	2.6

45 Sc (ISTD) [No Gas]

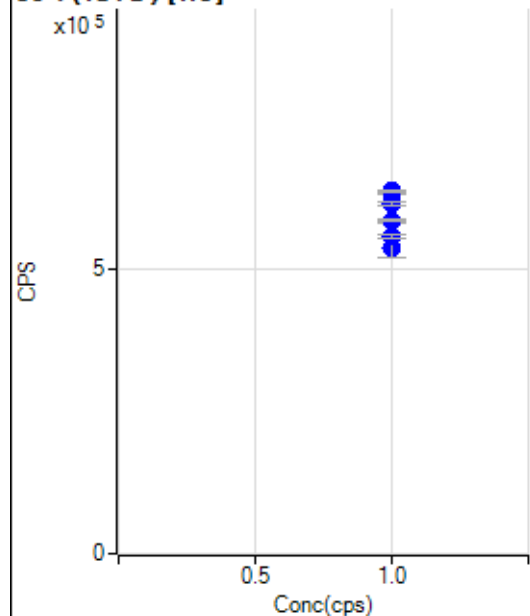
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3929021.95		A	25.6
2	☐	1.000		3054804.50		A	1.1
3	☐	1.000		2865275.10		A	2.3
4	☐	1.000		2840756.45		A	4.3
5	☐	1.000		2819568.71		A	2.8
6	☐	1.000		2777151.14		A	1.1
7	☐	1.000		2719627.55		A	1.7
8	☐	1.000		2469070.52		A	1.3

45 Sc (ISTD) [He]

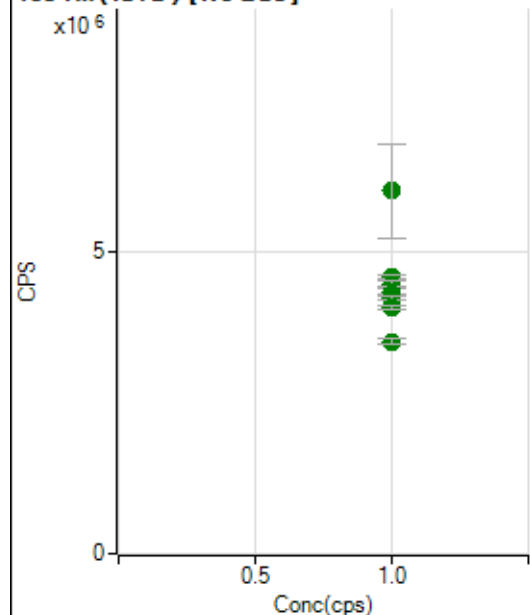
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		96411.62		P	1.1
2	☐	1.000		98265.26		P	0.6
3	☐	1.000		92914.59		P	0.5
4	☐	1.000		88900.68		P	0.2
5	☐	1.000		88907.23		P	1.1
6	☐	1.000		82160.80		P	6.2
7	☐	1.000		86732.95		P	0.4
8	☐	1.000		85688.06		P	1.5

89 Y (ISTD) [No Gas]

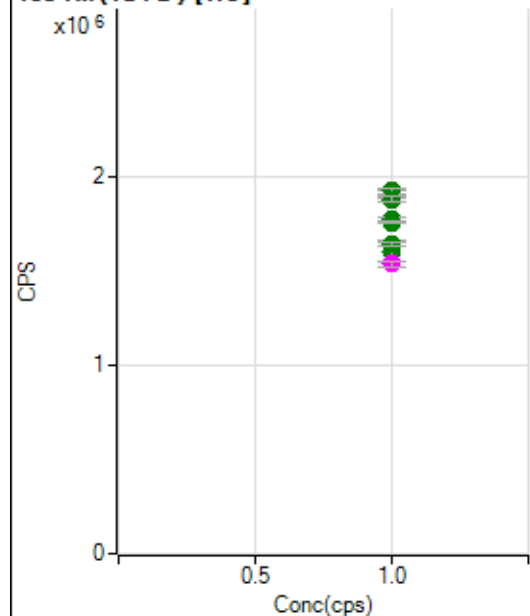
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8454785.99		A	26.0
2	☐	1.000		6500721.43		A	0.9
3	☐	1.000		6254668.58		A	4.6
4	☐	1.000		6178963.03		A	3.9
5	☐	1.000		6144484.56		A	3.0
6	☐	1.000		6164133.24		A	1.3
7	☐	1.000		6007623.45		A	0.4
8	☐	1.000		5401907.32		A	1.5

89 Y (ISTD) [He]

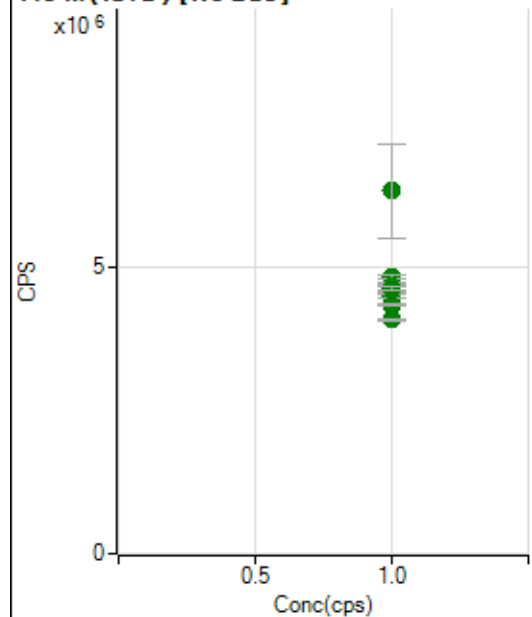
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		632299.63		P	0.5
2	☐	1.000		637501.87		P	0.3
3	☐	1.000		614642.67		P	1.1
4	☐	1.000		583203.12		P	0.4
5	☐	1.000		585789.98		P	0.4
6	☐	1.000		536764.70		P	6.5
7	☐	1.000		557859.85		P	0.9
8	☐	1.000		558250.51		P	1.5

103 Rh (ISTD) [No Gas]

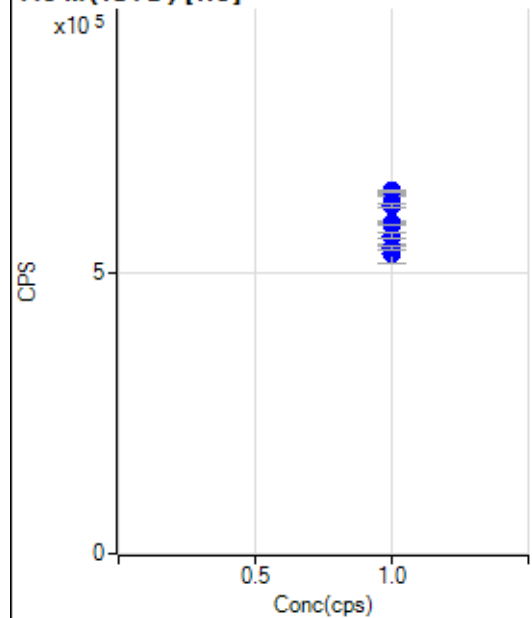
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5991453.32		A	25.8
2	☐	1.000		4580690.90		A	1.5
3	☐	1.000		4444427.54		A	3.5
4	☐	1.000		4334418.06		A	3.1
5	☐	1.000		4275746.40		A	0.8
6	☐	1.000		4234633.27		A	1.3
7	☐	1.000		4056387.96		A	1.5
8	☐	1.000		3507435.68		A	2.6

103 Rh (ISTD) [He]

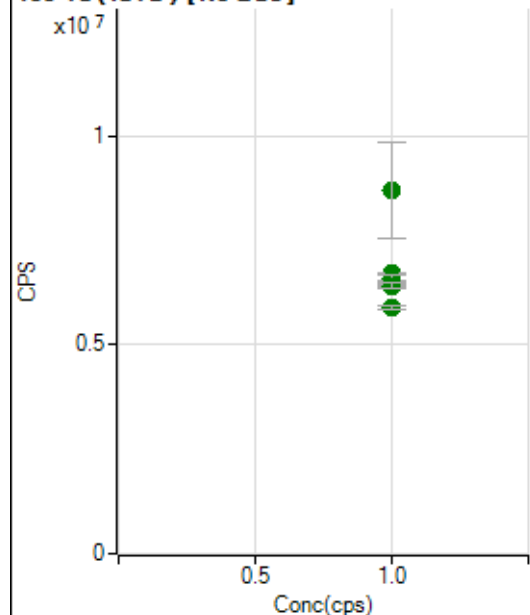
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1905756.15		A	2.3
2	☐	1.000		1920406.71		A	1.9
3	☐	1.000		1874049.35		A	1.5
4	☐	1.000		1768593.72		A	1.5
5	☐	1.000		1753615.76		A	0.3
6	☐	1.000		1600441.64		A	7.0
7	☐	1.000		1638359.82		A	1.1
8	☐	1.000		1532130.65		M	2.2

115 In (ISTD) [No Gas]

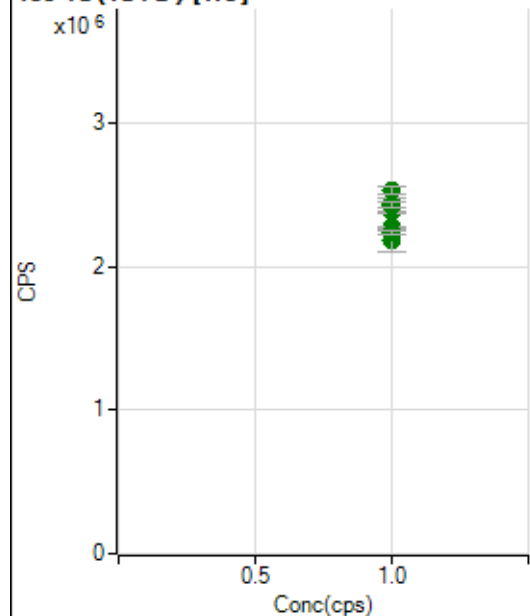
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6328802.60		A	26.2
2	☐	1.000		4836310.19		A	1.4
3	☐	1.000		4650681.46		A	3.4
4	☐	1.000		4625434.32		A	3.5
5	☐	1.000		4488171.28		A	1.2
6	☐	1.000		4621252.04		A	1.7
7	☐	1.000		4332180.96		A	0.8
8	☐	1.000		4086399.67		A	0.5

115 In (ISTD) [He]

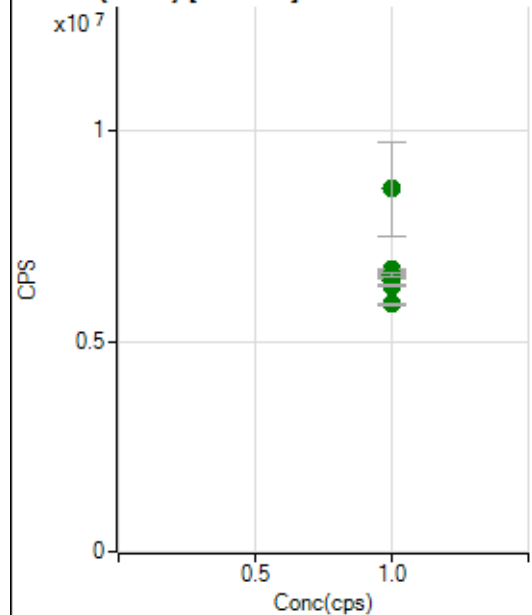
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		638292.17		P	0.4
2	☐	1.000		645870.00		P	0.8
3	☐	1.000		619492.95		P	1.1
4	☐	1.000		589962.69		P	0.6
5	☐	1.000		585129.31		P	0.2
6	☐	1.000		534188.08		P	7.0
7	☐	1.000		543496.50		P	0.9
8	☐	1.000		566144.71		P	1.5

159 Tb (ISTD) [No Gas]

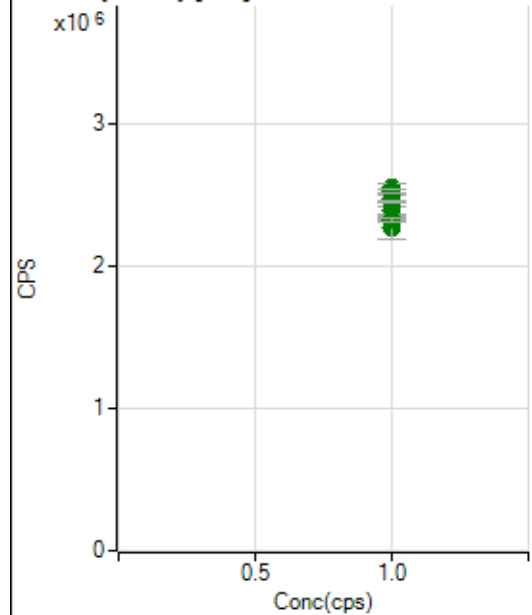
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8682356.95		A	26.5
2	☐	1.000		6702255.32		A	1.0
3	☐	1.000		6554947.19		A	3.5
4	☐	1.000		6467482.19		A	1.9
5	☐	1.000		6576669.90		A	3.3
6	☐	1.000		6584261.36		A	3.1
7	☐	1.000		6416928.86		A	1.6
8	☐	1.000		5892272.06		A	1.9

159 Tb (ISTD) [He]

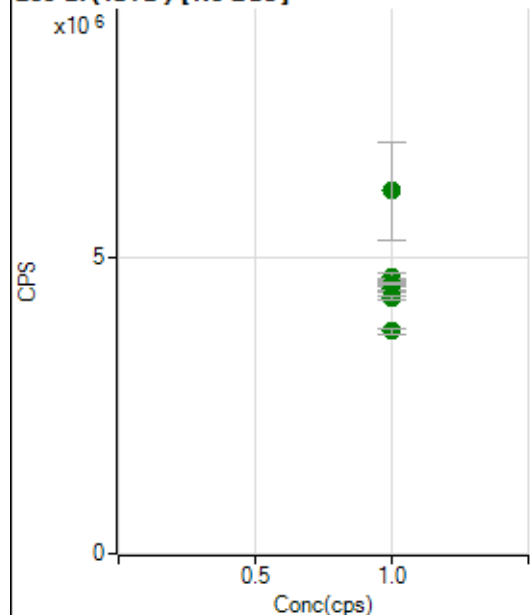
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2441858.44		A	2.4
2	☐	1.000		2524470.24		A	2.0
3	☐	1.000		2425445.61		A	1.9
4	☐	1.000		2380591.96		A	0.6
5	☐	1.000		2423169.90		A	1.6
6	☐	1.000		2184374.38		A	8.2
7	☐	1.000		2271017.10		A	0.6
8	☐	1.000		2238110.28		A	0.9

165 Ho (ISTD) [No Gas]

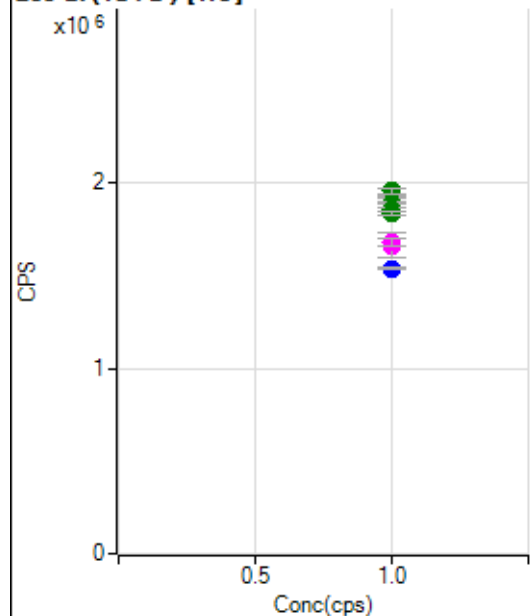
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8627872.58		A	25.9
2	☐	1.000		6707992.19		A	0.3
3	☐	1.000		6454809.63		A	4.7
4	☐	1.000		6535020.46		A	5.1
5	☐	1.000		6519415.39		A	1.4
6	☐	1.000		6586163.86		A	1.7
7	☐	1.000		6325310.25		A	0.5
8	☐	1.000		5891503.39		A	0.6

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2551514.08		A	2.5
2	☐	1.000		2523862.08		A	1.7
3	☐	1.000		2480595.43		A	2.4
4	☐	1.000		2397203.75		A	2.2
5	☐	1.000		2451830.47		A	0.5
6	☐	1.000		2272307.33		A	6.9
7	☐	1.000		2345735.50		A	1.5
8	☐	1.000		2325122.33		A	0.8

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6108654.94		A	26.7
2	☐	1.000		4667845.83		A	3.1
3	☐	1.000		4481286.05		A	3.7
4	☐	1.000		4510876.60		A	4.9
5	☐	1.000		4458790.14		A	1.5
6	☐	1.000		4540317.30		A	0.8
7	☐	1.000		4302752.54		A	2.1
8	☐	1.000		3740799.35		A	1.9

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1926731.40		A	0.5
2	☐	1.000		1955204.80		A	1.3
3	☐	1.000		1890008.88		A	0.4
4	☐	1.000		1854816.45		A	0.7
5	☐	1.000		1836860.37		A	1.3
6	☐	1.000		1661312.84		M	7.9
7	☐	1.000		1679435.46		M	2.5
8	☐	1.000		1534285.15		P	0.6

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP8040124-MS.b
Acq. Date-Time 2024-04-01 09:21:39
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		6817	68167.74			0.844	5.000
24		45311	453111.58			0.548	5.000
25		5967	59665.22			0.596	5.000
26		7021	70212.67			0.401	5.000
59		46585	465854.99			0.510	5.000
113		5820	58203.43			0.776	5.000
115		71919	719193.21			1.037	5.000
206		20417	204172.19			1.154	5.000
207		18567	185673.83			1.604	5.000
208		44959	449587.25			1.378	5.000
220		0	1.00			50.000	

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

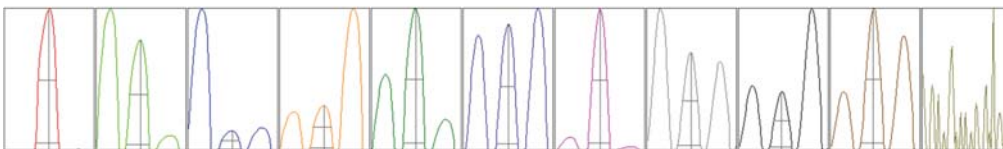
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	6892	6766	6866	6780	6780
24	45432	44929	45452	45199	45544
25	5986	5908	5975	6000	5963
26	7039	7006	7015	7059	6987
59	46511	46264	46714	46899	46539
113	5813	5746	5859	5851	5833
115	70904	71342	72475	72352	72524
206	20141	20181	20618	20551	20595
207	18311	18217	18600	18868	18841
208	44298	44286	45244	45391	45574

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	12339.20	9.00	8.90 - 9.10	
24	80247.85	24.00	23.90 - 24.10	
25	10753.72	25.00	24.90 - 25.10	
26	12534.92	26.00	25.90 - 26.10	
59	87595.12	59.00	58.90 - 59.10	
113	11974.50	113.05	112.90 - 113.10	
115	149778.75	115.05	114.90 - 115.10	
206	41694.12	206.00	205.90 - 206.10	
207	37965.27	206.95	206.90 - 207.10	
208	91639.77	207.95	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.59	0.773	0.900	
24	0.59	0.780	0.900	
25	0.59	0.742	0.900	
26	0.59	0.768	0.900	
59	0.56	0.732	0.900	
113	0.49	0.724	0.900	
115	0.50	0.722	0.900	
206	0.50	0.762	0.900	
207	0.50	0.750	0.900	
208	0.50	0.774	0.900	
220				

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	8.9 V	Deflect	13.4 V
Extract 2	-195.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-110 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	140 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	1.0 mm	Torch V	-1.0 mm
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EM

Discriminator	4.4 mV	Analog HV	2317 V	Pulse HV	1701 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		10040	100404.75			2.956	
89		5898	58978.53			2.158	
205		12999	129988.38			2.758	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	9915	9617	10109	10416	10146
89	5823	5756	6010	6052	5848
205	12611	12633	13194	13412	13144

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	8.9 V	Deflect	2.6 V
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US EPA Tune Check Report

Extract 2	-195.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-110 V	Cell Exit	-70 V		
Cell Parameters					
Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	4.5 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		
QP Parameters					
Mass Gain	124	Axis Gain	0.9992	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	0.01		
Hardware Settings					
Torch					
Torch H	1.0 mm	Torch V	-1.0 mm		
EM					
Discriminator	4.4 mV	Analog HV	2317 V	Pulse HV	1701 V