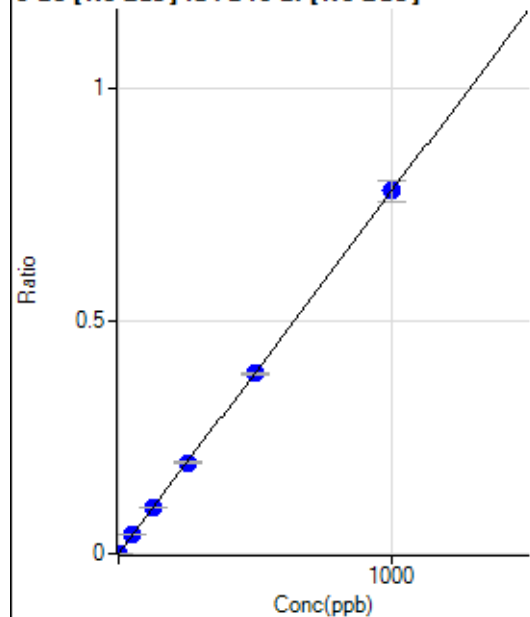


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8112320 MS.b\
Analysis File: P8112320 MS.batch.bin
DA Date-Time: 2020-11-24 01:11:26
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2020-11-23 14:58:24
2	004CALS.d	S02	2020-11-23 15:01:38
3	005CALS.d	S03	2020-11-23 15:04:50
4	006CALS.d	S04	2020-11-23 15:08:03
5	007CALS.d	S05	2020-11-23 15:11:12
6	008CALS.d	S06	2020-11-23 15:14:16
7	009CALS.d	S07	2020-11-23 15:17:14
8	011CALS.d	S08	2020-11-23 15:23:16

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	119.98	0.0001	P	8.5
2	☐	1.000	0.914	834.53	0.0008	P	1.3
3	☐	50.000	51.329	40769.24	0.0400	P	1.9
4	☐	125.000	125.908	102865.78	0.0980	P	1.5
5	☐	250.000	250.932	207181.14	0.1951	P	1.5
6	☐	500.000	496.330	418759.44	0.3859	P	1.7
7	☐	1000.000	1001.422	820362.45	0.7784	P	5.7
8	☐			1037.17	0.0010	P	2.0

$$y = 7.7719\text{E-}004 * x + 1.1537\text{E-}004$$

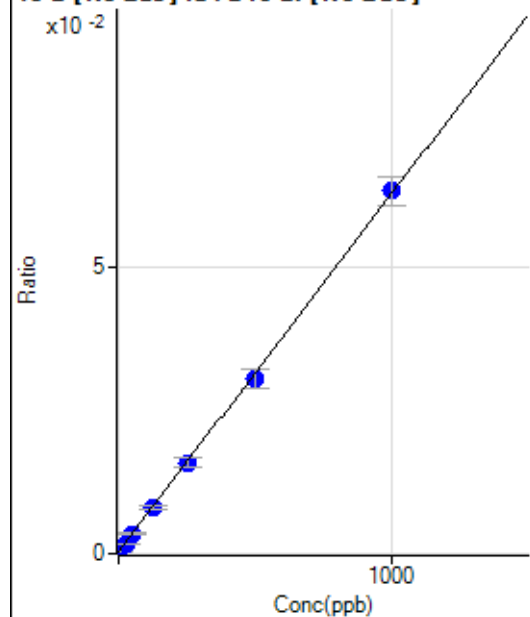
$$R = 1.0000$$

$$DL = 0.03785$$

$$BEC = 0.1485$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	361.27	0.0003	P	5.1
2	☐	25.000	21.651	1717.10	0.0017	P	7.5
3	☐	50.000	49.606	3508.41	0.0034	P	9.3
4	☐	125.000	122.929	8435.44	0.0080	P	7.3
5	☐	250.000	249.502	16907.72	0.0159	P	9.0
6	☐	500.000	484.337	33188.89	0.0306	P	10.5
7	☐	1000.000	1008.318	66806.36	0.0633	P	8.1
8	☐			11193.40	0.0108	P	9.2

$$y = 6.2473\text{E-}005 * x + 3.4735\text{E-}004$$

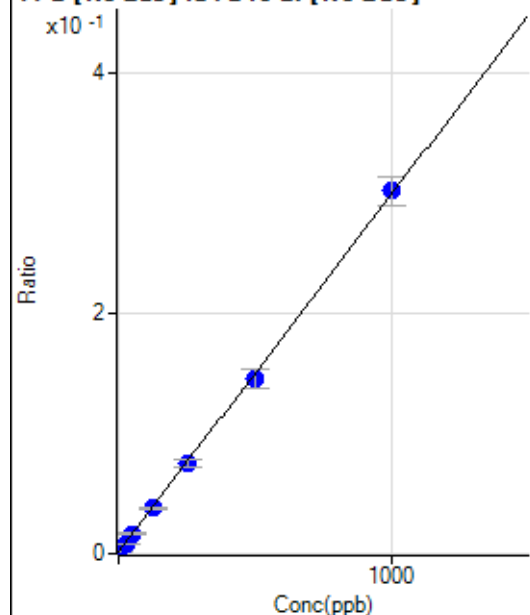
$$R = 0.9998$$

$$DL = 0.8432$$

$$BEC = 5.56$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1581.78	0.0015	P	1.6
2	☐	25.000	21.939	8142.66	0.0081	P	6.2
3	☐	50.000	49.587	16597.43	0.0163	P	9.3
4	☐	125.000	121.800	39751.73	0.0378	P	7.2
5	☐	250.000	246.014	79434.36	0.0749	P	8.9
6	☐	500.000	484.341	158222.39	0.1459	P	10.2
7	☐	1000.000	1009.323	318994.42	0.3024	P	8.0
8	☐			52953.09	0.0510	P	9.0

$$y = 2.9810\text{E-}004 * x + 0.0015$$

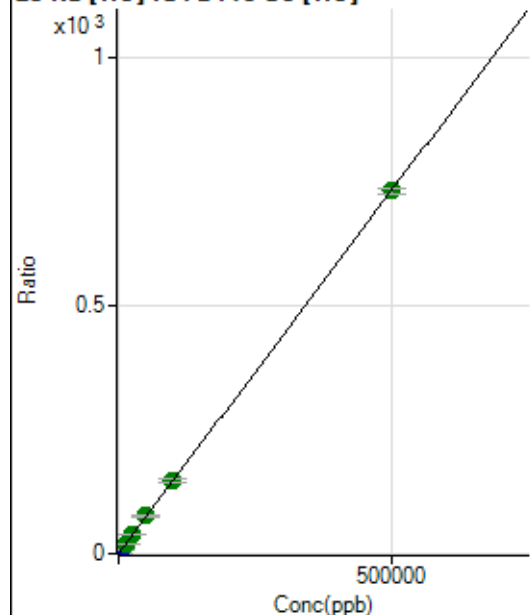
$$R = 0.9998$$

$$DL = 0.2446$$

$$BEC = 5.099$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	30635.54	0.3672	P	1.8
2	☐	500.000	495.010	91270.97	1.0917	P	0.6
3	☐	5000.000	5186.129	691810.95	7.9579	P	4.5
4	☐	12500.000	13458.763	1676241.66	20.0663	A	4.2
5	☐	25000.000	25832.696	3321589.70	38.1777	A	1.4
6	☐	50000.000	51966.714	6631262.56	76.4293	A	2.4
7	☐	100000.00	100402.42	12998815.40	147.3231	A	6.1
8	☐	500000.00	499655.38	63418313.22	731.6976	A	1.9

$$y = 0.0015 * x + 0.3672$$

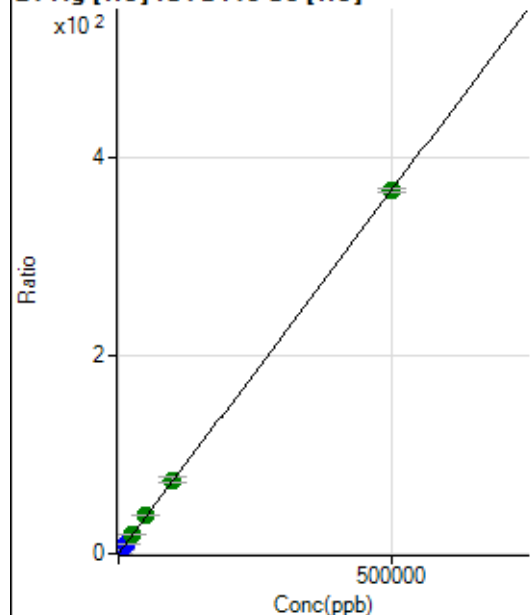
$$R = 1.0000$$

$$DL = 13.89$$

$$BEC = 250.8$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	700.03	0.0084	P	11.3
2	☐	500.000	495.458	31066.85	0.3716	P	2.0
3	☐	5000.000	5266.826	336389.44	3.8695	P	4.5
4	☐	12500.000	13889.440	851071.13	10.1906	P	5.0
5	☐	25000.000	26512.950	1691830.99	19.4448	A	0.6
6	☐	50000.000	53265.164	3388791.05	39.0566	A	2.1
7	☐	100000.00	101469.04	6562567.03	74.3944	A	6.7
8	☐	500000.00	499266.62	31725554.53	366.0161	A	1.2

$$y = 7.3309E-004 * x + 0.0084$$

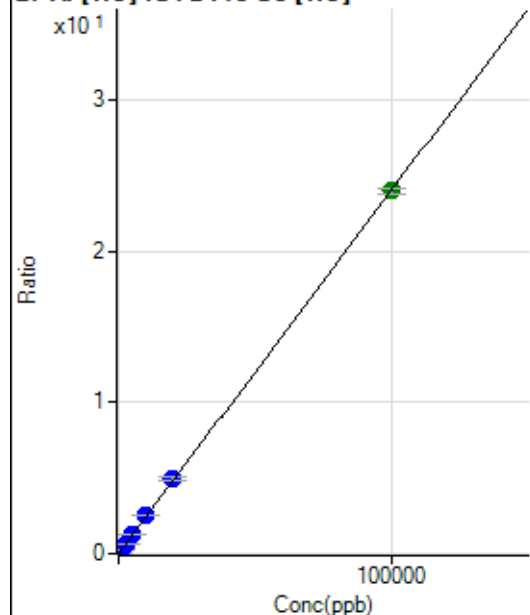
$$R = 1.0000$$

$$DL = 3.888$$

$$BEC = 11.44$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	430.78	0.0052	P	1.6
2	☐	20.000	19.298	819.09	0.0098	P	1.4
3	☐	1000.000	1019.112	21724.24	0.2499	P	4.6
4	☐	2500.000	2720.460	54994.85	0.6585	P	4.8
5	☐	5000.000	5228.220	109692.43	1.2607	P	0.7
6	☐	10000.000	10598.673	221295.98	2.5504	P	1.9
7	☐	20000.000	20485.774	434469.90	4.9248	P	6.4
8	☐	100000.00	99825.864	2078368.57	23.9781	A	1.2

$$y = 2.4015E-004 * x + 0.0052$$

$$R = 1.0000$$

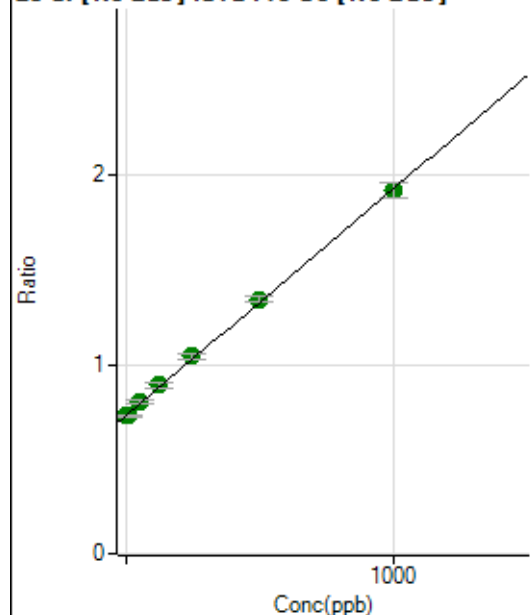
$$DL = 1.059$$

$$BEC = 21.5$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1333097.33	0.7274	A	1.7
2	☐	10.000	1.527	1350043.36	0.7293	A	1.6
3	☐	50.000	60.694	1468351.37	0.8004	A	2.7
4	☐	125.000	135.224	1674425.55	0.8900	A	3.7
5	☐	250.000	263.725	2023849.05	1.0445	A	2.9
6	☐	500.000	512.814	2638175.84	1.3439	A	1.8
7	☐	1000.000	988.434	3728146.96	1.9157	A	4.3
8	☐			1709975.67	0.8841	A	0.8

$$y = 0.0012 * x + 0.7274$$

R = 0.9996

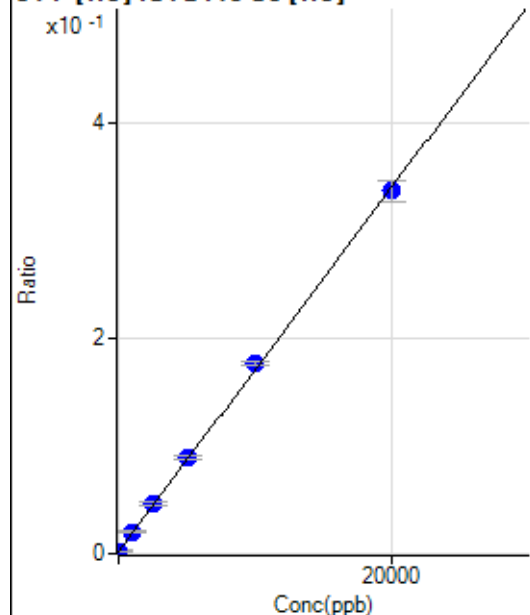
DL = 30.03

BEC = 605.1

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	9.960	216.67	0.0026	P	26.5
2	☐	0.000	-9.960	188.89	0.0023	P	13.3
3	☐	1000.000	1021.677	1705.70	0.0196	P	8.8
4	☐	2500.000	2597.128	3856.18	0.0462	P	6.8
5	☐	5000.000	5141.184	7749.52	0.0891	P	3.5
6	☐	10000.000	10291.317	15258.38	0.1758	P	1.9
7	☐	20000.000	19805.821	29664.11	0.3362	P	6.0
8	☐			219.45	0.0025	P	8.0

$$y = 1.6851E-005 * x + 0.0024$$

R = 0.9998

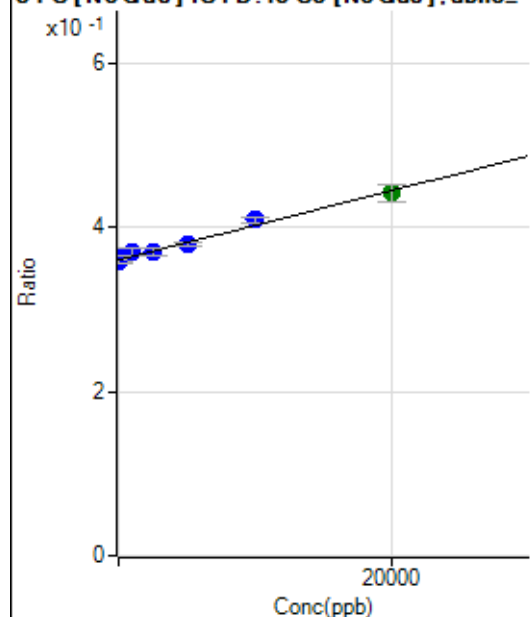
DL = 88.06

BEC = 144

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	455.277	664307.10	0.3625	P	1.8
2	☐	0.000	-455.277	663942.81	0.3587	P	1.2
3	☐	1000.000	2337.883	679648.39	0.3705	P	2.5
4	☐	2500.000	2418.456	697818.18	0.3708	P	2.4
5	☐	5000.000	4575.904	736243.75	0.3799	P	1.2
6	☐	10000.000	11472.012	802727.91	0.4091	P	1.9
7	☐	20000.000	19313.317	860329.41	0.4422	A	4.5
8	☐			634603.31	0.3281	P	1.2

$$y = 4.2247\text{E-}006 * x + 0.3606$$

$$R = 0.9928$$

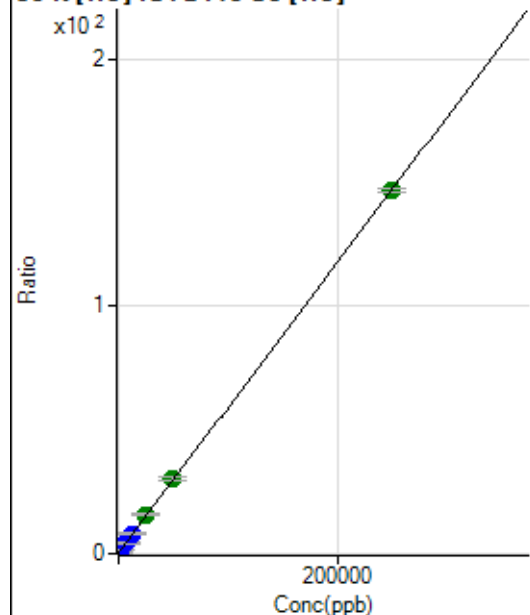
$$DL = 3814$$

$$BEC = 8.535\text{E}+04$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	29669.92	0.3556	P	0.5
2	☐	500.000	496.316	54057.30	0.6466	P	1.5
3	☐	2500.000	2580.528	162400.36	1.8687	P	5.5
4	☐	6250.000	6870.238	366154.95	4.3842	P	4.9
5	☐	12500.000	13226.236	705752.74	8.1112	P	1.4
6	☐	25000.000	26297.541	1368807.64	15.7760	A	2.3
7	☐	50000.000	50994.535	2669258.93	30.2580	A	6.6
8	☐	250000.00	249618.72	12718048.64	146.7283	A	1.1

$$y = 5.8639\text{E-}004 * x + 0.3556$$

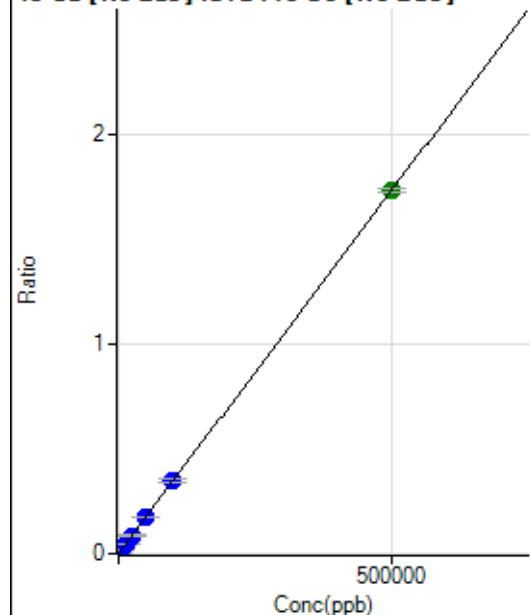
$$R = 1.0000$$

$$DL = 9.264$$

$$BEC = 606.4$$

Weight: <None>

Min Conc: 0

43 Ca [No Gas] ISTD:45 Sc [No Gas]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	355.38	0.0002	P	7.9
2	☐	500.000	487.740	3487.50	0.0019	P	1.7
3	☐	5000.000	5205.645	33451.01	0.0182	P	1.9
4	☐	12500.000	12864.331	84230.19	0.0448	P	3.7
5	☐	25000.000	25106.628	168960.52	0.0872	P	1.7
6	☐	50000.000	50815.473	345939.23	0.1763	P	1.7
7	☐	100000.00	101089.29	681854.92	0.3505	P	4.8
8	☐	500000.00	499684.11	3349476.50	1.7317	A	1.1

$$y = 3.4651E-006 * x + 1.9383E-004$$

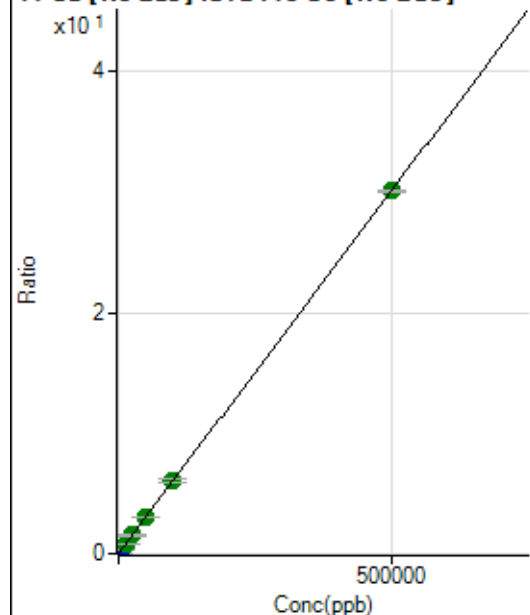
$$R = 1.0000$$

$$DL = 13.3$$

$$BEC = 55.94$$

Weight: <None>

Min Conc: 0

44 Ca [No Gas] ISTD:45 Sc [No Gas]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	22704.98	0.0124	P	2.5
2	☐	500.000	479.780	76395.92	0.0413	P	0.7
3	☐	5000.000	5240.438	601427.13	0.3278	P	2.3
4	☐	12500.000	12917.489	1486196.56	0.7899	A	3.3
5	☐	25000.000	25008.511	2940874.06	1.5177	A	2.1
6	☐	50000.000	50294.023	5966340.78	3.0396	A	1.1
7	☐	100000.00	100076.75	11739925.97	6.0360	A	5.6
8	☐	500000.00	499941.99	58231999.01	30.1039	A	0.9

$$y = 6.0190E-005 * x + 0.0124$$

$$R = 1.0000$$

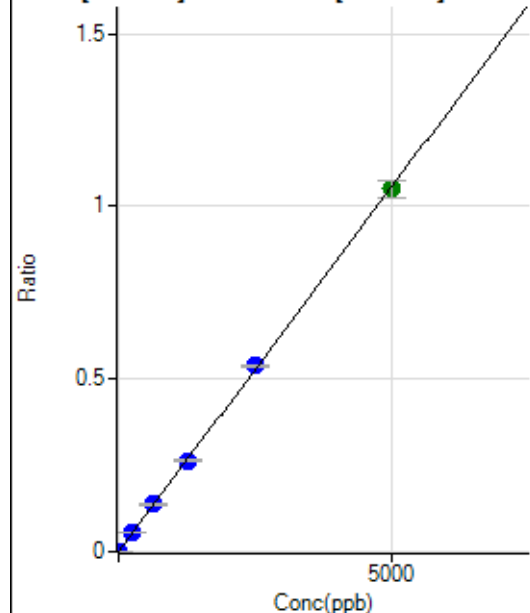
$$DL = 15.34$$

$$BEC = 205.9$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	616.70	0.0003	P	2.1
2	☐	5.000	4.763	2483.62	0.0013	P	10.1
3	☐	250.000	256.077	99760.95	0.0544	P	2.4
4	☐	625.000	645.724	257035.27	0.1366	P	3.6
5	☐	1250.000	1246.041	510198.13	0.2633	P	1.3
6	☐	2500.000	2545.880	1054990.32	0.5376	P	1.4
7	☐	5000.000	4975.155	2043072.16	1.0502	A	4.8
8	☐			1594.58	0.0008	P	6.0

$$y = 2.1102\text{E-}004 * x + 3.3649\text{E-}004$$

$$R = 0.9999$$

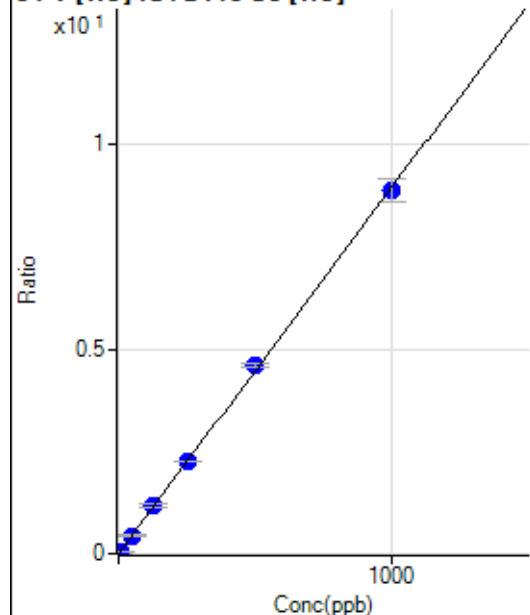
$$DL = 0.1028$$

$$BEC = 1.595$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	7.78	0.0001	P	24.3
2	☐	5.000	4.904	3677.18	0.0440	P	2.5
3	☐	50.000	49.005	38106.24	0.4386	P	6.3
4	☐	125.000	131.087	97943.38	1.1731	P	5.8
5	☐	250.000	252.265	196417.36	2.2574	P	0.8
6	☐	500.000	514.463	399441.37	4.6037	P	2.1
7	☐	1000.000	991.491	782755.24	8.8723	P	6.3
8	☐			371.12	0.0043	P	8.4

$$y = 0.0089 * x + 9.3174\text{E-}005$$

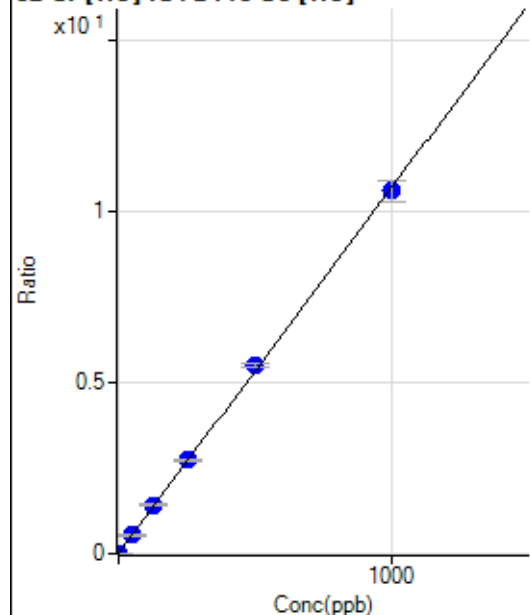
$$R = 0.9998$$

$$DL = 0.007577$$

$$BEC = 0.01041$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	514.46	0.0062	P	8.9
2	☐	2.000	1.929	2235.75	0.0267	P	7.5
3	☐	50.000	49.665	46539.97	0.5357	P	6.6
4	☐	125.000	132.122	118153.01	1.4150	P	5.4
5	☐	250.000	254.634	236781.27	2.7213	P	0.8
6	☐	500.000	512.746	474923.49	5.4735	P	1.9
7	☐	1000.000	991.595	933526.13	10.5795	P	5.9
8	☐			9161.91	0.1057	P	1.0

$$y = 0.0107 * x + 0.0062$$

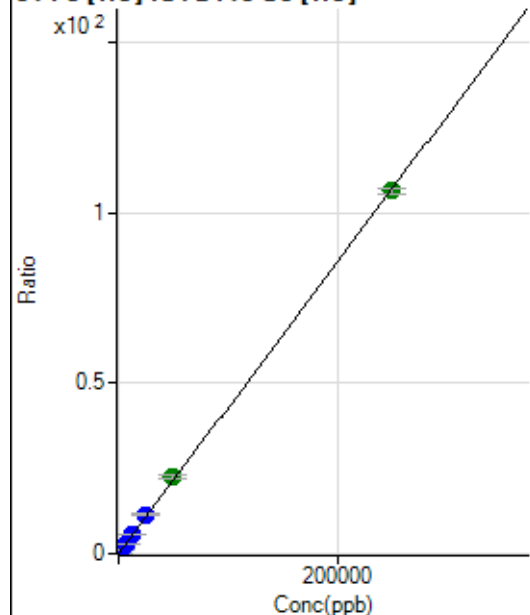
$$R = 0.9998$$

$$DL = 0.1551$$

$$BEC = 0.5783$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	416.68	0.0050	P	24.4
2	☐	50.000	49.966	2203.91	0.0264	P	4.5
3	☐	2500.000	2615.242	97604.65	1.1232	P	5.7
4	☐	6250.000	6944.646	248445.91	2.9743	P	4.4
5	☐	12500.000	13348.664	497042.39	5.7125	P	0.5
6	☐	25000.000	27031.871	1003258.66	11.5631	P	2.5
7	☐	50000.000	52998.436	1999490.42	22.6657	A	6.6
8	☐	250000.00	249136.17	9233248.70	106.5288	A	1.5

$$y = 4.2757E-004 * x + 0.0050$$

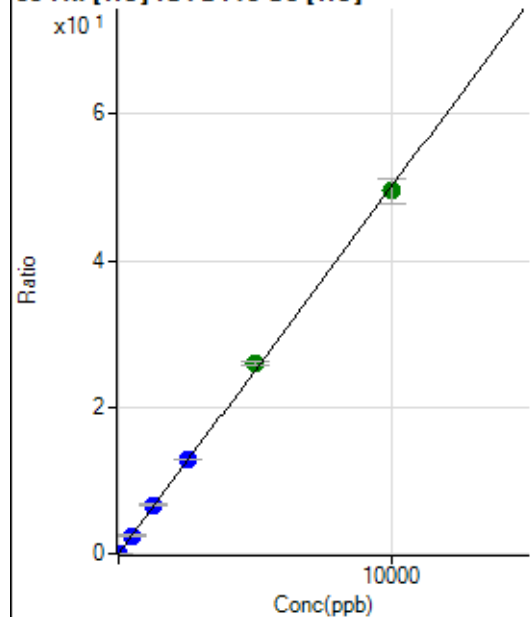
$$R = 0.9999$$

$$DL = 8.557$$

$$BEC = 11.69$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	107.78	0.0013	P	12.4
2	☐	1.000	0.960	510.02	0.0061	P	3.0
3	☐	500.000	497.493	216751.70	2.4935	P	4.7
4	☐	1250.000	1322.744	553506.91	6.6276	P	4.9
5	☐	2500.000	2558.030	1115073.65	12.8157	P	0.7
6	☐	5000.000	5181.341	2252211.83	25.9572	A	2.1
7	☐	10000.000	9885.855	4368125.53	49.5244	A	7.0
8	☐			5979.08	0.0690	P	2.3

$$y = 0.0050 * x + 0.0013$$

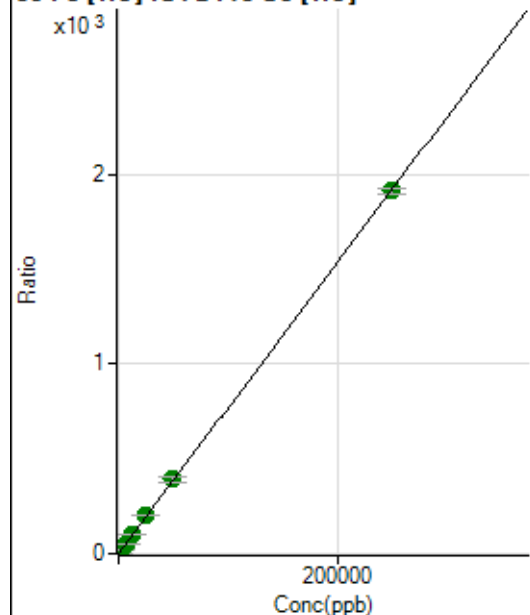
$$R = 0.9997$$

$$DL = 0.09574$$

$$BEC = 0.2578$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	3055.94	0.0366	P	4.5
2	☐	50.000	50.113	35156.52	0.4205	P	1.0
3	☐	2500.000	2585.933	1724866.79	19.8456	A	5.2
4	☐	6250.000	6773.672	4337403.54	51.9250	A	4.3
5	☐	12500.000	13060.129	8708139.26	100.0811	A	0.4
6	☐	25000.000	26445.646	17581603.98	202.6182	A	1.5
7	☐	50000.000	51176.207	34590266.28	392.0617	A	6.3
8	☐	250000.00	249578.23	165712775.9	1,911.880	A	1.6

$$y = 0.0077 * x + 0.0366$$

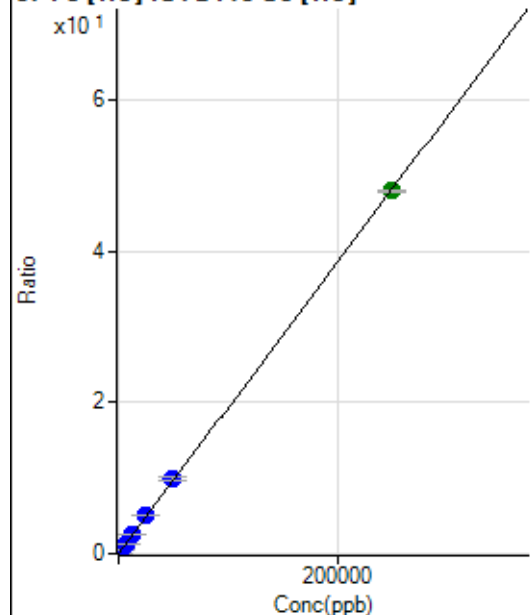
$$R = 1.0000$$

$$DL = 0.6392$$

$$BEC = 4.781$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	129.63	0.0016	P	33.6
2	☐	50.000	50.109	935.24	0.0112	P	1.2
3	☐	2500.000	2575.701	43156.05	0.4966	P	5.9
4	☐	6250.000	6851.714	110123.75	1.3186	P	4.8
5	☐	12500.000	13257.348	221859.64	2.5498	P	0.9
6	☐	25000.000	26778.005	446776.19	5.1487	P	1.4
7	☐	50000.000	51665.125	876289.23	9.9325	P	6.3
8	☐	250000.00	249435.50	4156017.89	47.9473	A	0.8

$$y = 1.9222\text{E-}004 * x + 0.0016$$

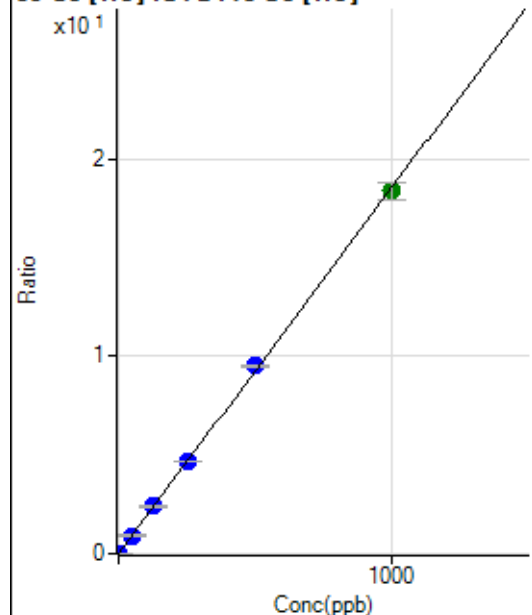
$$R = 1.0000$$

$$DL = 8.141$$

$$BEC = 8.086$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	84.44	0.0010	P	9.5
2	☐	1.000	0.896	1472.32	0.0176	P	5.2
3	☐	50.000	49.883	80428.81	0.9254	P	5.0
4	☐	125.000	130.855	202639.50	2.4258	P	4.3
5	☐	250.000	252.366	406963.90	4.6774	P	1.5
6	☐	500.000	513.339	825515.14	9.5132	P	1.2
7	☐	1000.000	992.013	1623103.00	18.3831	A	4.4
8	☐			3460.46	0.0399	P	2.7

$$y = 0.0185 * x + 0.0010$$

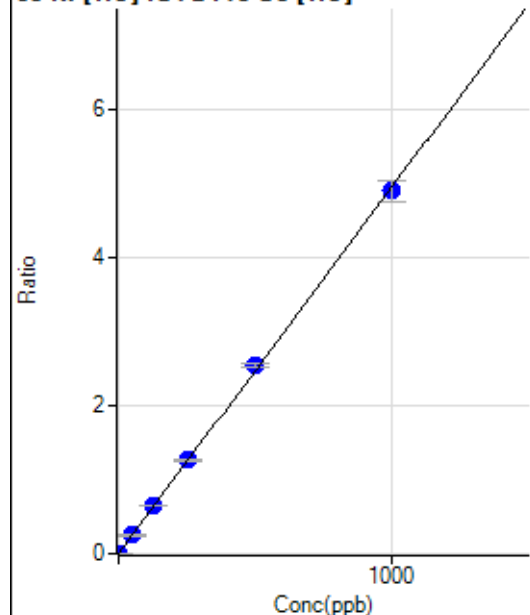
$$R = 0.9998$$

$$DL = 0.01556$$

$$BEC = 0.0546$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	120.00	0.0014	P	12.5
2	☐	1.000	1.061	558.91	0.0067	P	3.6
3	☐	50.000	50.363	21772.34	0.2504	P	3.9
4	☐	125.000	131.293	54350.07	0.6504	P	3.3
5	☐	250.000	254.726	109680.89	1.2606	P	0.8
6	☐	500.000	514.118	220626.72	2.5428	P	2.2
7	☐	1000.000	990.955	432375.74	4.8999	P	5.8
8	☐			3235.95	0.0373	P	6.6

$$y = 0.0049 * x + 0.0014$$

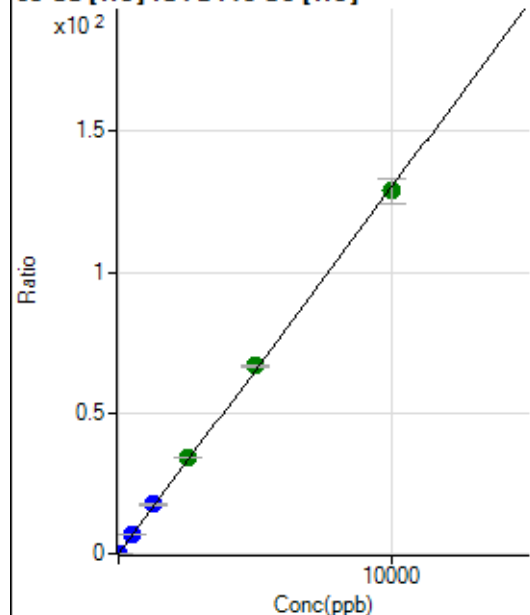
$$R = 0.9998$$

$$DL = 0.1089$$

$$BEC = 0.291$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	600.02	0.0072	P	2.1
2	☐	2.000	1.955	2729.18	0.0326	P	3.4
3	☐	500.000	512.118	580222.24	6.6757	P	5.1
4	☐	1250.000	1349.485	1468519.07	17.5794	P	4.1
5	☐	2500.000	2606.780	2954052.66	33.9511	A	0.4
6	☐	5000.000	5121.683	5787850.89	66.6986	A	1.2
7	☐	10000.000	9899.422	11371352.47	128.9114	A	6.7
8	☐			11166.70	0.1288	P	2.0

$$y = 0.0130 * x + 0.0072$$

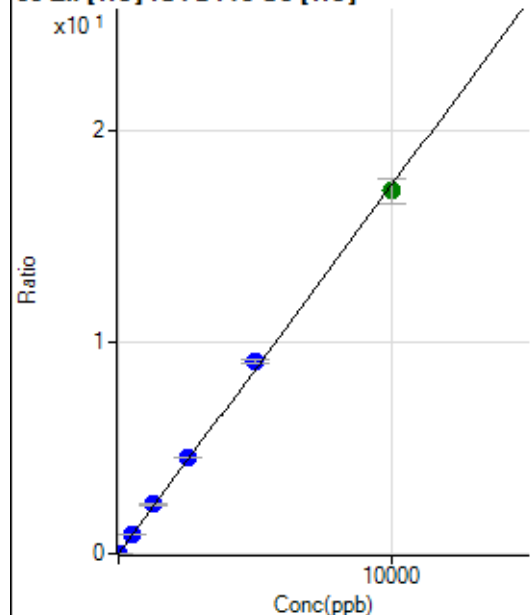
$$R = 0.9998$$

$$DL = 0.034$$

$$BEC = 0.5522$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	77.78	0.0009	P	19.6
2	☐	2.000	2.174	394.45	0.0047	P	2.6
3	☐	500.000	511.038	77417.55	0.8908	P	5.3
4	☐	1250.000	1343.250	195486.24	2.3399	P	3.8
5	☐	2500.000	2604.392	394661.49	4.5359	P	0.3
6	☐	5000.000	5226.515	789734.31	9.1017	P	1.9
7	☐	10000.000	9848.436	1512726.16	17.1497	A	6.8
8	☐			5238.80	0.0604	P	2.6

$$y = 0.0017 * x + 9.3244E-004$$

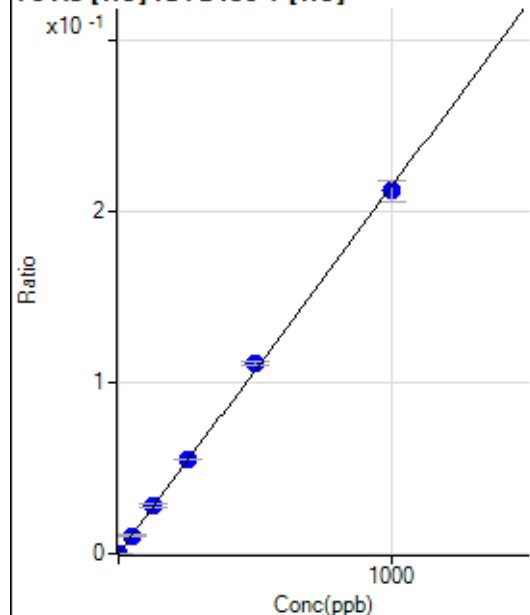
$$R = 0.9995$$

$$DL = 0.3145$$

$$BEC = 0.5355$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	5.00	0.0000	P	34.6
2	☐	1.000	1.020	117.01	0.0002	P	4.7
3	☐	50.000	49.359	5677.38	0.0106	P	4.8
4	☐	125.000	131.468	14380.42	0.0282	P	5.3
5	☐	250.000	257.313	29270.78	0.0552	P	0.5
6	☐	500.000	517.964	58838.54	0.1110	P	2.3
7	☐	1000.000	988.413	114896.55	0.2119	P	6.0
8	☐			91.34	0.0002	P	6.8

$$y = 2.1436E-004 * x + 9.8217E-006$$

$$R = 0.9997$$

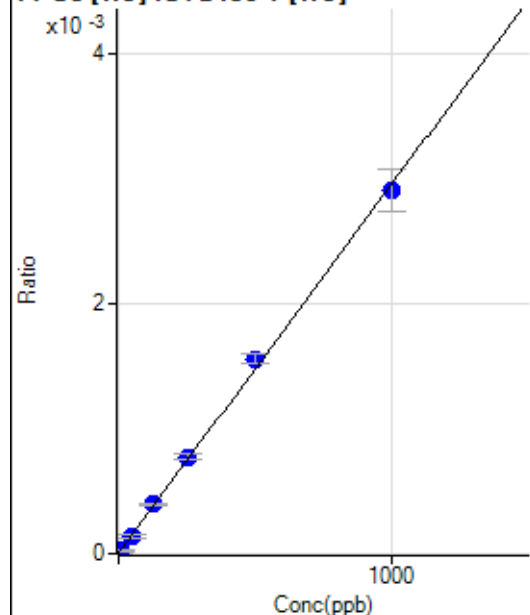
$$DL = 0.04752$$

$$BEC = 0.04582$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	2.22	0.0000	P	86.6
2	☐	5.000	8.072	14.45	0.0000	P	48.0
3	☐	50.000	44.463	72.22	0.0001	P	23.2
4	☐	125.000	132.086	201.11	0.0004	P	5.8
5	☐	250.000	261.623	412.23	0.0008	P	7.2
6	☐	500.000	527.593	827.81	0.0016	P	4.3
7	☐	1000.000	982.673	1572.33	0.0029	P	11.5
8	☐			8.89	0.0000	P	57.4

$$y = 2.9524\text{E-}006 * x + 4.3603\text{E-}006$$

$$R = 0.9993$$

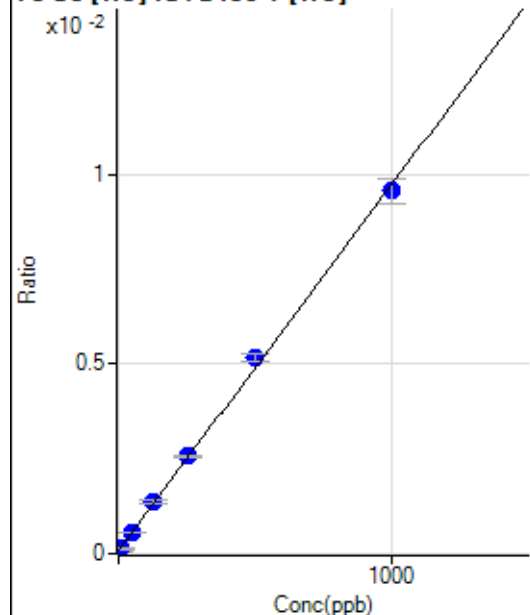
$$DL = 3.837$$

$$BEC = 1.477$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	41.00	0.0001	P	28.7
2	☐	5.000	5.068	66.34	0.0001	P	20.2
3	☐	50.000	51.611	311.03	0.0006	P	1.5
4	☐	125.000	133.694	700.09	0.0014	P	4.6
5	☐	250.000	258.478	1367.20	0.0026	P	1.3
6	☐	500.000	526.957	2738.55	0.0052	P	3.7
7	☐	1000.000	983.235	5191.15	0.0096	P	6.6
8	☐			58.01	0.0001	P	19.4

$$y = 9.6570\text{E-}006 * x + 8.0551\text{E-}005$$

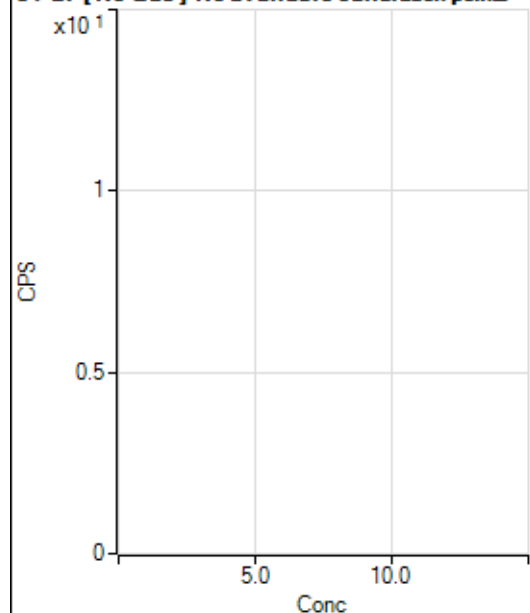
$$R = 0.9994$$

$$DL = 7.189$$

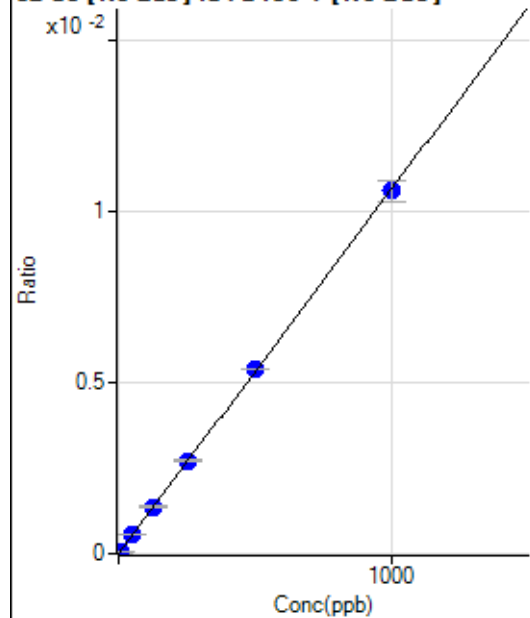
$$BEC = 8.341$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			3460.67		P	9.3
2	☐			3497.39		P	3.5
3	☐			3267.10		P	2.9
4	☐			3353.86		P	3.5
5	☐			3380.56		P	2.6
6	☐			3460.67		P	7.5
7	☐			3570.80		P	3.9
8	☐			3787.76		P	6.4

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	2.39	0.0000	P	1970.
2	☐	5.000	5.059	233.13	0.0001	P	8.2
3	☐	50.000	51.921	2351.91	0.0006	P	4.2
4	☐	125.000	128.763	5880.91	0.0014	P	1.1
5	☐	250.000	253.925	11804.57	0.0027	P	1.6
6	☐	500.000	506.116	23970.52	0.0054	P	0.7
7	☐	1000.000	995.394	46848.69	0.0106	P	6.0
8	☐			54.86	0.0000	P	15.9

$$y = 1.0657E-005 * x + 6.5683E-007$$

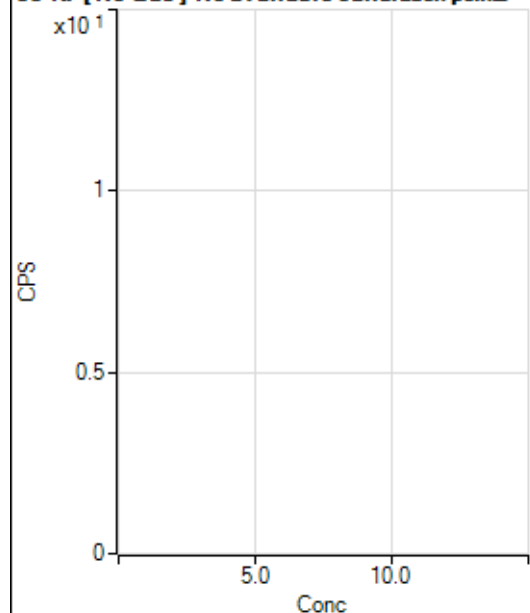
$$R = 1.0000$$

$$DL = 3.644$$

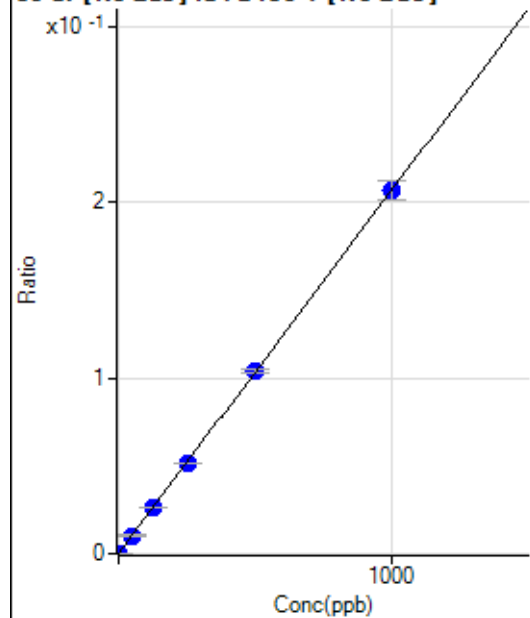
$$BEC = 0.06163$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			362.23		P	16.0
2	☐			350.01		P	9.7
3	☐			394.45		P	9.3
4	☐			382.23		P	18.6
5	☐			415.56		P	4.7
6	☐			364.45		P	5.6
7	☐			366.67		P	9.2
8	☐			367.79		P	4.6

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	636.15	0.0002	P	14.5
2	☐	1.000	0.871	1411.23	0.0003	P	10.8
3	☐	50.000	49.379	43975.47	0.0104	P	2.1
4	☐	125.000	128.328	114256.94	0.0267	P	0.8
5	☐	250.000	248.786	224887.65	0.0516	P	1.7
6	☐	500.000	502.326	461975.86	0.1040	P	1.4
7	☐	1000.000	998.756	912379.61	0.2066	P	5.2
8	☐			5804.12	0.0013	P	3.9

$$y = 2.0667E-004 * x + 1.5051E-004$$

$$R = 1.0000$$

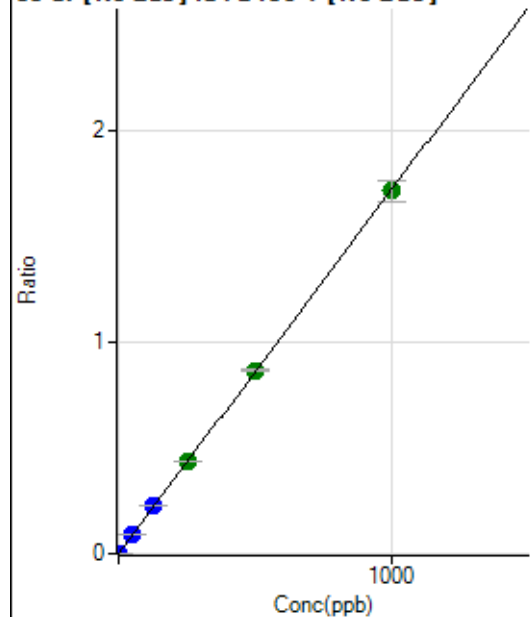
$$DL = 0.3165$$

$$BEC = 0.7283$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	138.89	0.0000	P	25.8
2	☐	1.000	0.958	7171.46	0.0017	P	2.1
3	☐	50.000	51.400	375280.55	0.0884	P	1.9
4	☐	125.000	130.045	957547.68	0.2235	P	0.7
5	☐	250.000	253.230	1898183.31	0.4352	A	1.3
6	☐	500.000	503.434	3844887.41	0.8652	A	1.0
7	☐	1000.000	996.775	7564589.06	1.7131	A	6.0
8	☐			45538.75	0.0105	P	1.6

$$y = 0.0017 * x + 3.2888E-005$$

$$R = 1.0000$$

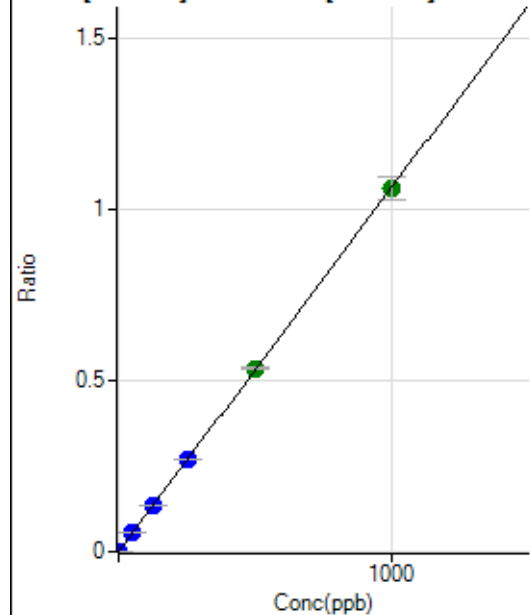
$$DL = 0.0148$$

$$BEC = 0.01914$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	222.23	0.0001	P	19.3
2	☐	1.000	0.954	4548.10	0.0011	P	10.2
3	☐	50.000	50.664	228775.88	0.0539	P	1.6
4	☐	125.000	127.915	582295.49	0.1359	P	0.4
5	☐	250.000	253.485	1174520.10	0.2693	P	1.3
6	☐	500.000	504.217	2380327.96	0.5356	A	1.4
7	☐	1000.000	996.623	4674731.92	1.0587	A	6.2
8	☐			2883.70	0.0007	P	10.3

$$y = 0.0011 * x + 5.2566E-005$$

$$R = 1.0000$$

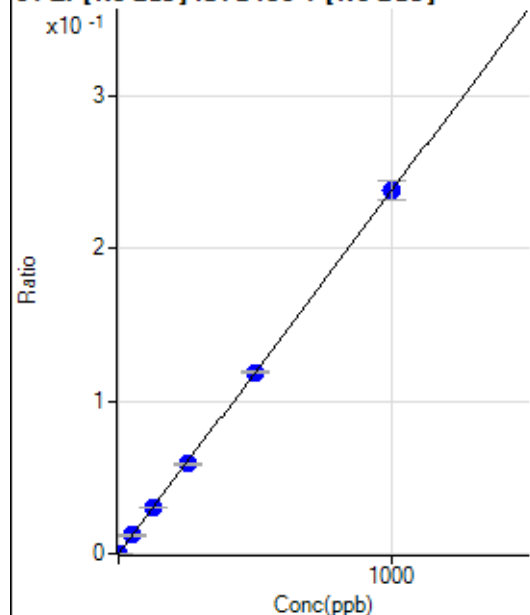
$$DL = 0.02872$$

$$BEC = 0.04949$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	55.56	0.0000	P	18.7
2	☐	1.000	1.011	1083.40	0.0003	P	12.9
3	☐	50.000	51.102	51696.37	0.0122	P	3.2
4	☐	125.000	128.832	131411.14	0.0307	P	1.4
5	☐	250.000	247.470	256920.59	0.0589	P	0.8
6	☐	500.000	500.042	528871.08	0.1190	P	0.4
7	☐	1000.000	1000.077	1051269.82	0.2380	P	5.4
8	☐			788.93	0.0002	P	8.7

$$y = 2.3799\text{E-}004 * x + 1.3157\text{E-}005$$

$$R = 1.0000$$

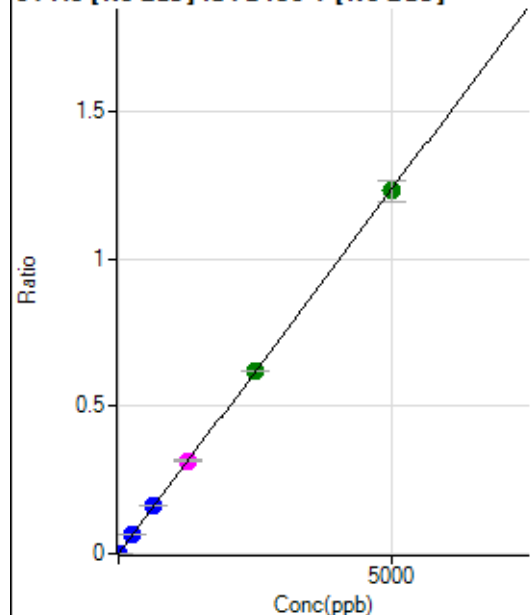
$$DL = 0.03096$$

$$BEC = 0.05528$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	116.67	0.0000	P	66.7
2	☐	5.000	4.812	5201.09	0.0012	P	6.5
3	☐	250.000	257.508	270715.86	0.0637	P	2.5
4	☐	625.000	652.891	692198.14	0.1616	P	0.7
5	☐	1250.000	1274.796	1375883.30	0.3155	M	1.4
6	☐	2500.000	2515.641	2766297.16	0.6225	A	0.1
7	☐	5000.000	4982.119	5444466.83	1.2329	A	5.8
8	☐			3908.99	0.0009	P	3.6

$$y = 2.4745\text{E-}004 * x + 2.7728\text{E-}005$$

$$R = 1.0000$$

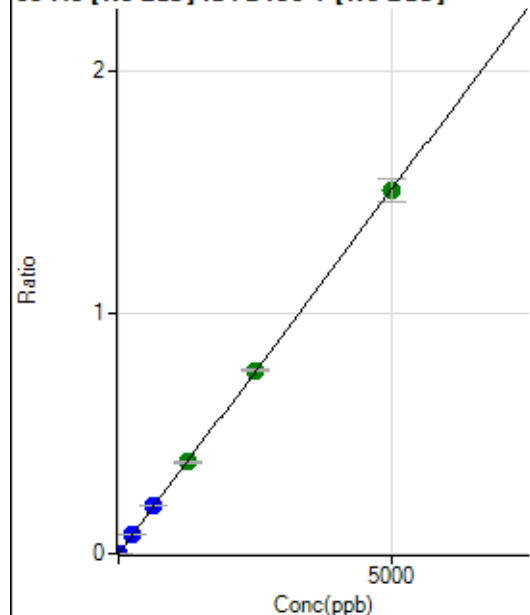
$$DL = 0.2241$$

$$BEC = 0.1121$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	33.33	0.0000	P	26.2
2	☐	5.000	4.888	6334.96	0.0015	P	5.2
3	☐	250.000	255.908	328246.33	0.0773	P	1.8
4	☐	625.000	650.822	841916.69	0.1965	P	0.8
5	☐	1250.000	1260.359	1659918.92	0.3806	A	1.2
6	☐	2500.000	2520.341	3381985.19	0.7611	A	0.4
7	☐	5000.000	4983.717	6645036.65	1.5050	A	6.3
8	☐			5067.76	0.0012	P	8.7

$$y = 3.0198\text{E-}004 * x + 7.8976\text{E-}006$$

$$R = 1.0000$$

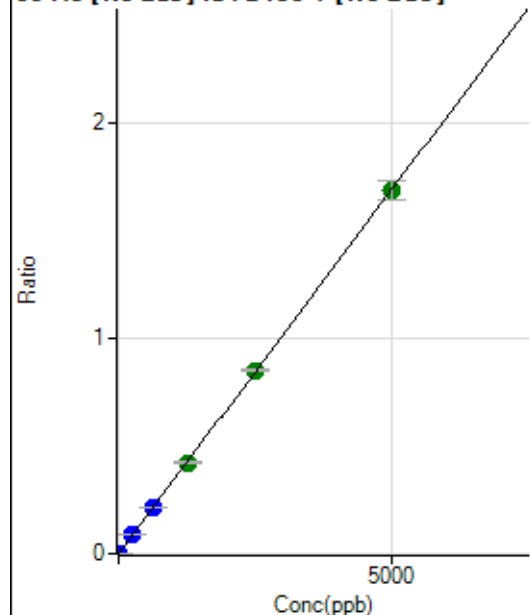
$$DL = 0.02053$$

$$BEC = 0.02615$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	36.11	0.0000	P	12.6
2	☐	5.000	4.714	6824.07	0.0016	P	2.8
3	☐	250.000	253.540	363168.17	0.0855	P	1.2
4	☐	625.000	644.759	931460.17	0.2174	P	0.6
5	☐	1250.000	1249.811	1838110.17	0.4215	A	1.8
6	☐	2500.000	2521.088	3778013.71	0.8502	A	0.8
7	☐	5000.000	4986.857	7428089.75	1.6817	A	5.4
8	☐			6112.63	0.0014	P	6.8

$$y = 3.3723\text{E-}004 * x + 8.5340\text{E-}006$$

$$R = 1.0000$$

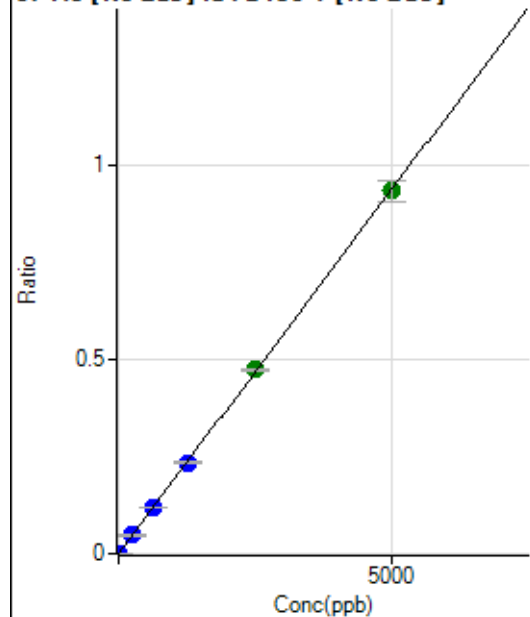
$$DL = 0.009579$$

$$BEC = 0.02531$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	2.78	0.0000	P	173.2
2	☐	5.000	4.955	3964.58	0.0009	P	3.8
3	☐	250.000	251.310	199872.43	0.0471	P	1.8
4	☐	625.000	637.010	511011.14	0.1193	P	1.2
5	☐	1250.000	1252.573	1023007.60	0.2346	P	1.4
6	☐	2500.000	2527.560	2103432.30	0.4733	A	1.5
7	☐	5000.000	4984.010	4122203.13	0.9334	A	6.0
8	☐			2961.52	0.0007	P	1.7

$$y = 1.8727\text{E-}004 * x + 6.6607\text{E-}007$$

$$R = 1.0000$$

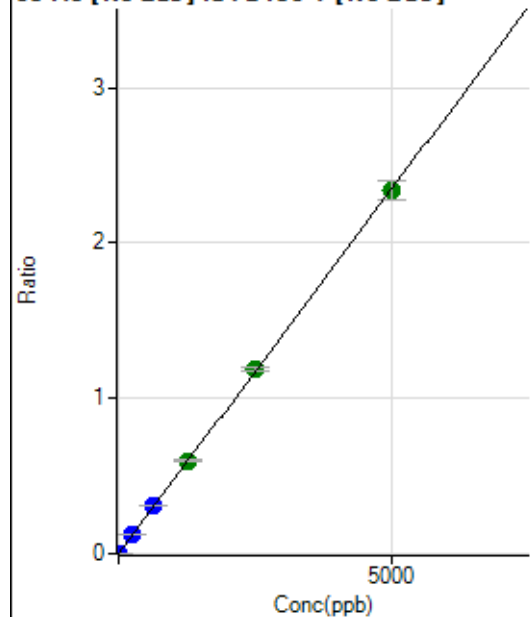
$$DL = 0.01848$$

$$BEC = 0.003557$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	19.44	0.0000	P	49.9
2	☐	5.000	4.790	9614.74	0.0023	P	5.0
3	☐	250.000	258.438	515036.50	0.1213	P	2.7
4	☐	625.000	656.519	1319834.27	0.3081	P	0.5
5	☐	1250.000	1278.299	2616180.57	0.5999	A	1.9
6	☐	2500.000	2523.211	5261576.29	1.1841	A	2.0
7	☐	5000.000	4976.958	10317511.86	2.3356	A	5.4
8	☐			8191.53	0.0019	P	3.6

$$y = 4.6929\text{E-}004 * x + 4.6087\text{E-}006$$

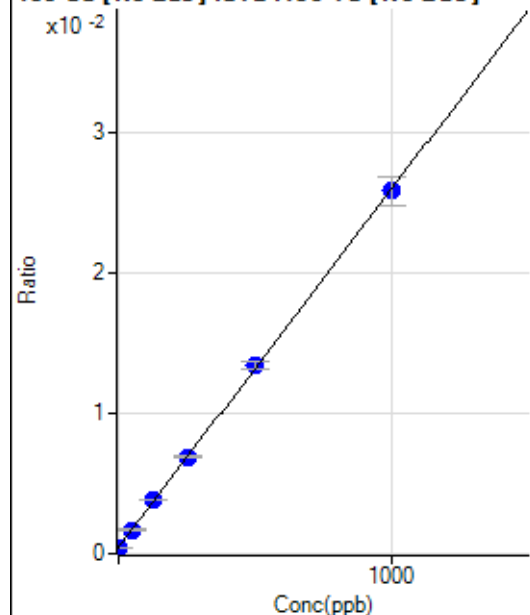
$$R = 1.0000$$

$$DL = 0.0147$$

$$BEC = 0.009821$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1105.63	0.0004	P	9.1
2	☐	1.000	0.128	1100.08	0.0005	P	11.0
3	☐	50.000	48.242	4103.48	0.0017	P	4.3
4	☐	125.000	132.201	9573.01	0.0038	P	1.3
5	☐	250.000	252.435	17480.93	0.0069	P	1.7
6	☐	500.000	507.433	34179.12	0.0134	P	3.7
7	☐	1000.000	994.864	66039.13	0.0259	P	7.9
8	☐			1283.44	0.0005	P	8.7

$$y = 2.5575E-005 * x + 4.4991E-004$$

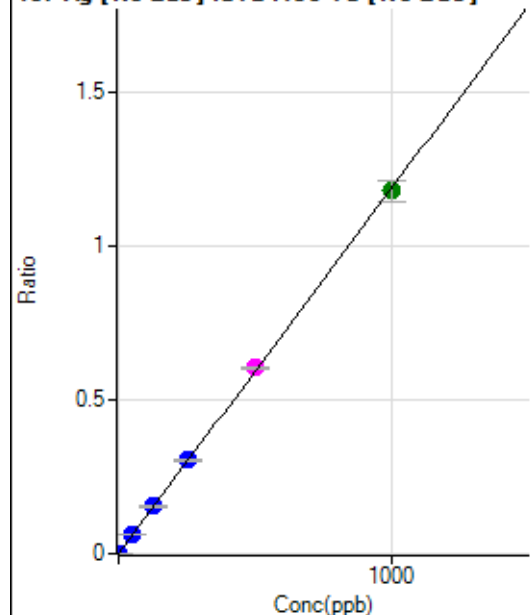
$$R = 0.9999$$

$$DL = 4.819$$

$$BEC = 17.59$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	75.00	0.0000	P	51.9
2	☐	1.000	0.972	2878.17	0.0012	P	7.4
3	☐	50.000	51.879	150386.03	0.0617	P	2.1
4	☐	125.000	129.263	384028.69	0.1537	P	0.7
5	☐	250.000	256.928	773022.11	0.3054	P	1.5
6	☐	500.000	508.493	1538843.62	0.6044	M	1.5
7	☐	1000.000	993.395	3013709.94	1.1808	A	5.8
8	☐			2436.39	0.0010	P	4.4

$$y = 0.0012 * x + 3.0629E-005$$

$$R = 0.9999$$

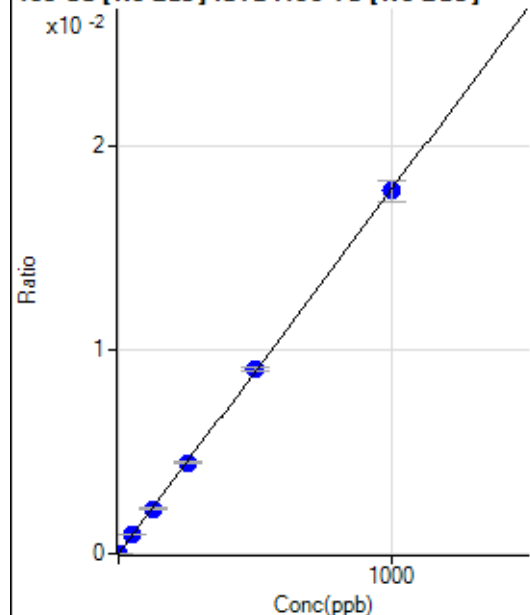
$$DL = 0.0401$$

$$BEC = 0.02577$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	4.17	0.0000	P	99.4
2	☐	1.000	1.510	69.45	0.0000	P	3.8
3	☐	50.000	52.536	2287.72	0.0009	P	1.7
4	☐	125.000	123.876	5524.79	0.0022	P	3.0
5	☐	250.000	250.700	11318.64	0.0045	P	1.6
6	☐	500.000	507.163	23026.26	0.0090	P	2.4
7	☐	1000.000	996.257	45350.61	0.0178	P	5.5
8	☐			70.83	0.0000	P	16.9

$$y = 1.7832\text{E-}005 * x + 1.6764\text{E-}006$$

$$R = 1.0000$$

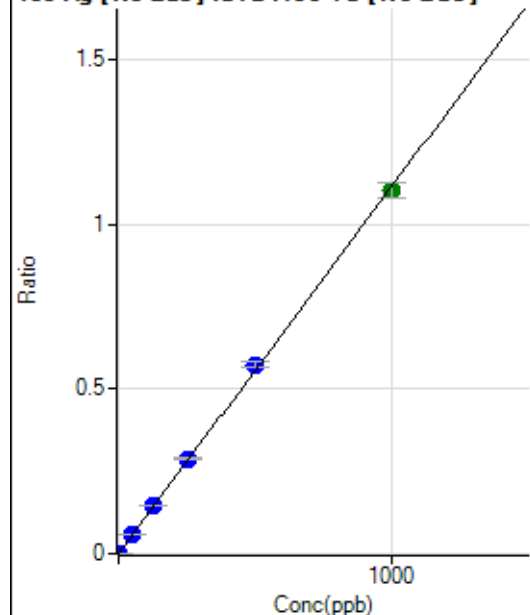
$$DL = 0.2804$$

$$BEC = 0.09401$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	27.78	0.0000	P	75.5
2	☐	1.000	0.991	2703.12	0.0011	P	4.9
3	☐	50.000	52.784	143218.08	0.0587	P	0.3
4	☐	125.000	131.015	364320.26	0.1458	P	0.9
5	☐	250.000	258.235	727279.62	0.2874	P	1.2
6	☐	500.000	516.199	1462243.10	0.5744	P	2.5
7	☐	1000.000	988.951	2810181.44	1.1005	A	4.2
8	☐			2594.77	0.0010	P	3.9

$$y = 0.0011 * x + 1.1267\text{E-}005$$

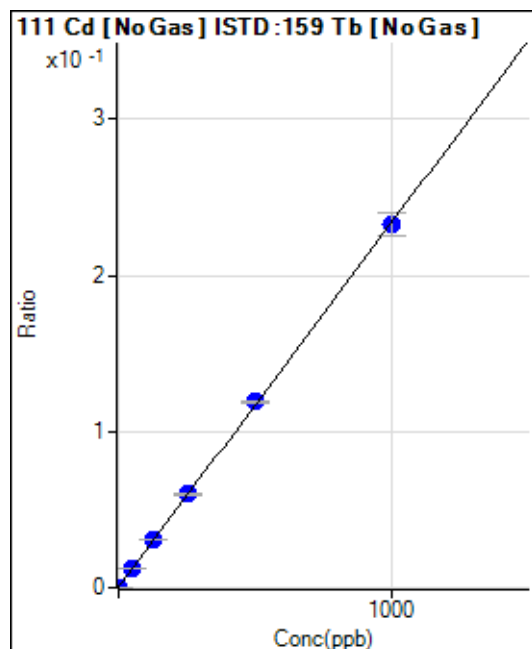
$$R = 0.9998$$

$$DL = 0.02295$$

$$BEC = 0.01013$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	776.58	0.0003	P	9.1
2	☐	1.000	1.010	1339.52	0.0006	P	10.6
3	☐	50.000	51.097	29854.91	0.0122	P	2.0
4	☐	125.000	129.910	76579.80	0.0306	P	1.5
5	☐	250.000	254.771	151342.76	0.0598	P	1.7
6	☐	500.000	508.411	302998.67	0.1190	P	1.2
7	☐	1000.000	993.933	593009.80	0.2324	P	6.2
8	☐			1329.40	0.0005	P	2.7

$$y = 2.3348\text{E-}004 * x + 3.1602\text{E-}004$$

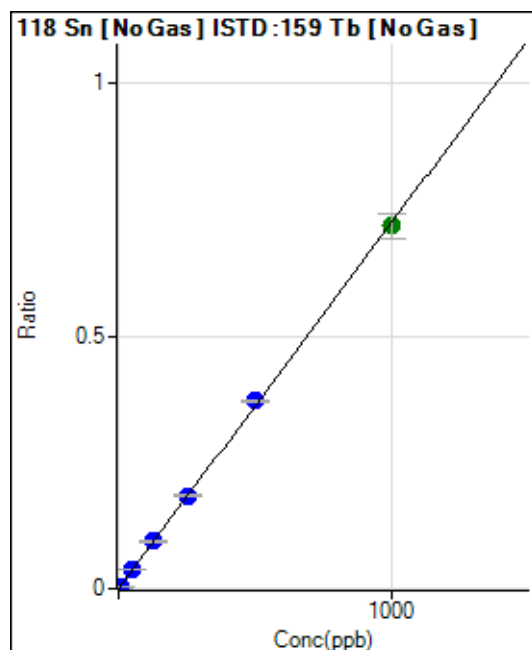
$$R = 0.9999$$

$$DL = 0.3699$$

$$BEC = 1.354$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	275.01	0.0001	P	4.2
2	☐	5.000	4.775	8666.86	0.0036	P	3.5
3	☐	50.000	51.740	91616.82	0.0376	P	2.4
4	☐	125.000	128.684	233136.82	0.0933	P	1.3
5	☐	250.000	254.588	466907.04	0.1845	P	1.2
6	☐	500.000	513.631	947205.09	0.3721	P	1.4
7	☐	1000.000	991.491	1832272.13	0.7181	A	6.6
8	☐			1816.85	0.0007	P	9.7

$$y = 7.2417\text{E-}004 * x + 1.1194\text{E-}004$$

$$R = 0.9998$$

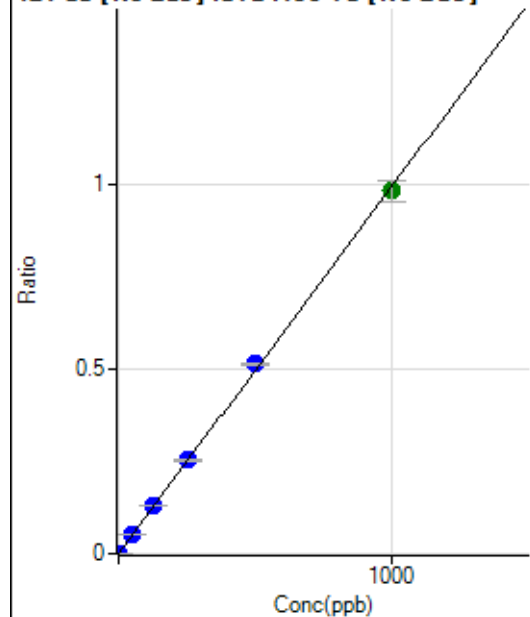
$$DL = 0.01955$$

$$BEC = 0.1546$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	27.78	0.0000	P	17.3
2	☐	2.000	1.976	4795.42	0.0020	P	5.0
3	☐	50.000	52.146	126310.75	0.0518	P	2.2
4	☐	125.000	128.859	319932.21	0.1280	P	0.6
5	☐	250.000	254.978	641159.56	0.2533	P	1.1
6	☐	500.000	517.848	1309803.00	0.5145	P	1.1
7	☐	1000.000	989.242	2508391.22	0.9828	A	5.7
8	☐			3008.75	0.0012	P	5.6

$$y = 9.9349\text{E-}004 * x + 1.1314\text{E-}005$$

$$R = 0.9997$$

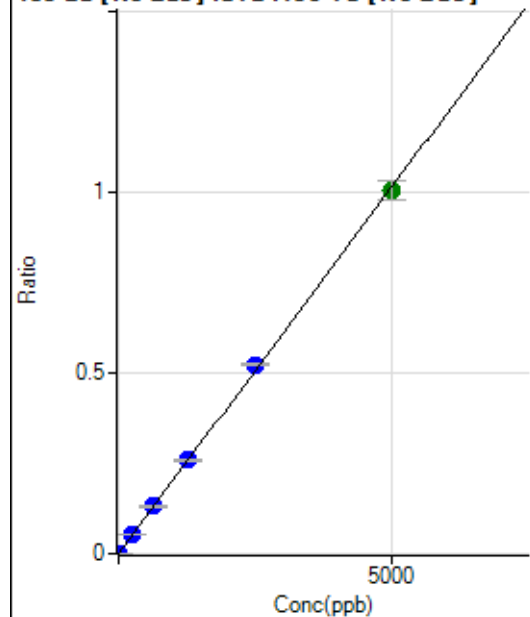
$$DL = 0.005897$$

$$BEC = 0.01139$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	25.00	0.0000	P	66.6
2	☐	10.000	9.460	4684.28	0.0019	P	0.4
3	☐	250.000	256.446	126821.98	0.0520	P	2.9
4	☐	625.000	643.869	326403.17	0.1306	P	1.2
5	☐	1250.000	1274.498	654366.93	0.2585	P	1.4
6	☐	2500.000	2578.835	1331805.35	0.5231	P	1.4
7	☐	5000.000	4951.778	2564129.33	1.0045	A	5.3
8	☐			5818.08	0.0023	P	5.6

$$y = 2.0286\text{E-}004 * x + 1.0221\text{E-}005$$

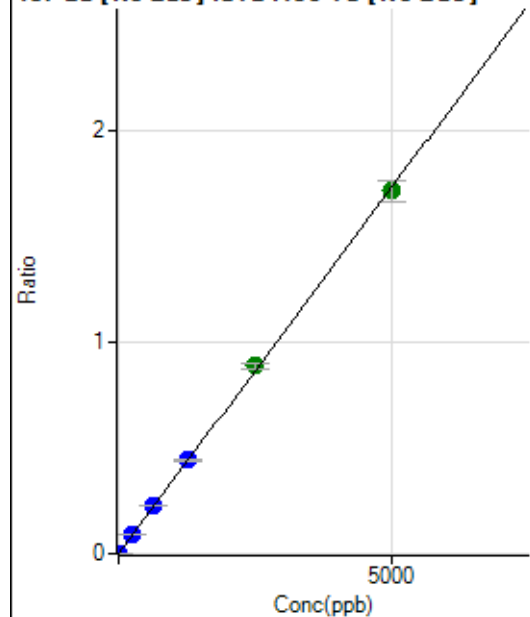
$$R = 0.9998$$

$$DL = 0.1007$$

$$BEC = 0.05039$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	52.78	0.0000	P	22.8
2	☐	10.000	9.884	8336.09	0.0034	P	3.2
3	☐	250.000	258.786	217852.91	0.0894	P	1.5
4	☐	625.000	648.722	559691.49	0.2240	P	1.5
5	☐	1250.000	1280.109	1118399.92	0.4420	P	2.8
6	☐	2500.000	2563.951	2253576.24	0.8852	A	2.8
7	☐	5000.000	4957.093	4368067.85	1.7114	A	5.7
8	☐			9570.33	0.0038	P	6.1

$$y = 3.4525E-004 * x + 2.1462E-005$$

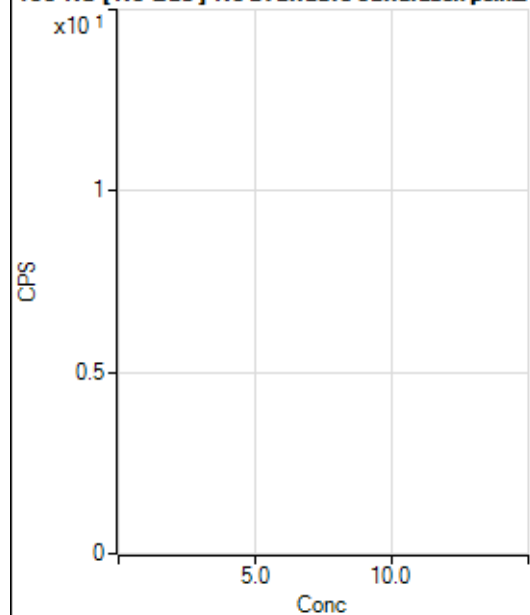
$$R = 0.9999$$

$$DL = 0.04258$$

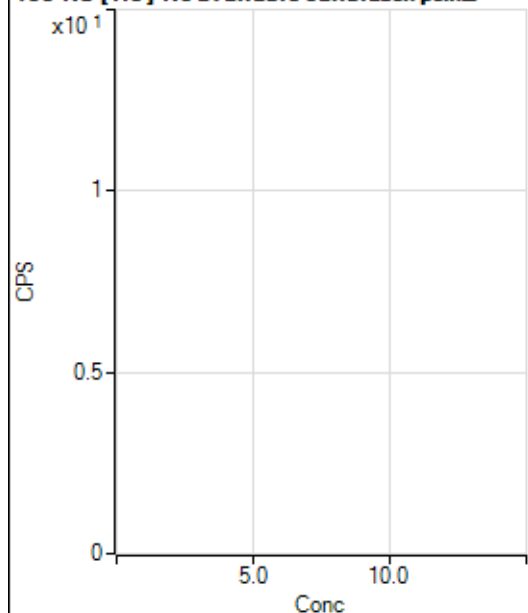
$$BEC = 0.06216$$

Weight: <None>

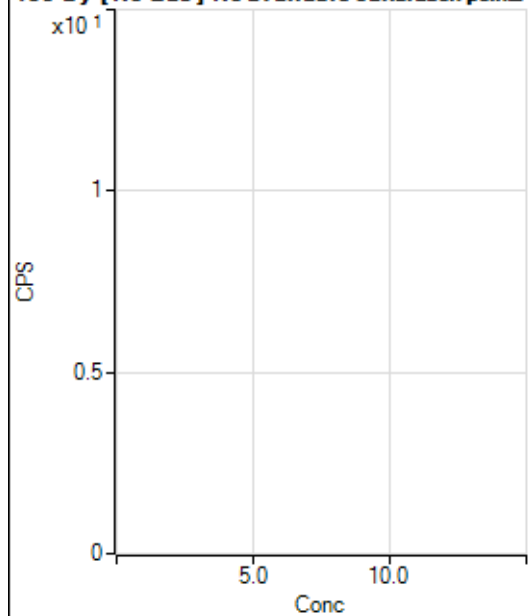
Min Conc: 0

150 Nd [No Gas] No available calibration points

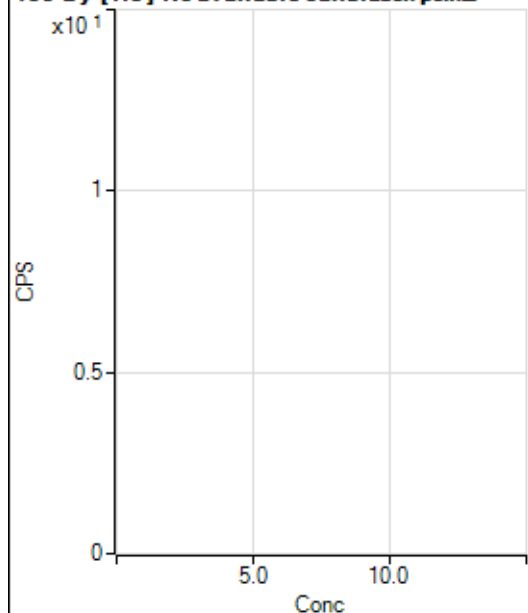
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			22.22		P	17.3
2	☐			4.44		P	173.2
3	☐			13.33		P	50.0
4	☐			8.89		P	43.3
5	☐			42.22		P	39.7
6	☐			73.33		P	32.8
7	☐			124.45		P	13.5
8	☐			24.45		P	83.3

150 Nd [He] No available calibration points

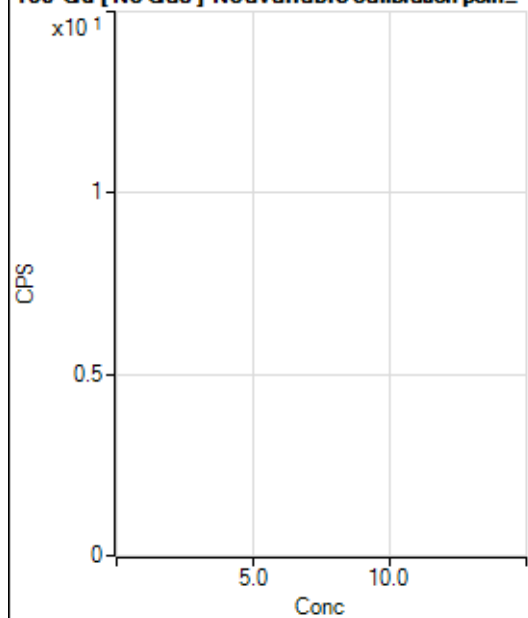
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			0.00		P	
2	☐			0.00		P	
3	☐			1.11		P	173.2
4	☐			2.22		P	86.6
5	☐			1.11		P	173.2
6	☐			3.33		P	100.1
7	☐			13.33		P	100.0
8	☐			2.22		P	86.6

156 Dy [No Gas] No available calibration points

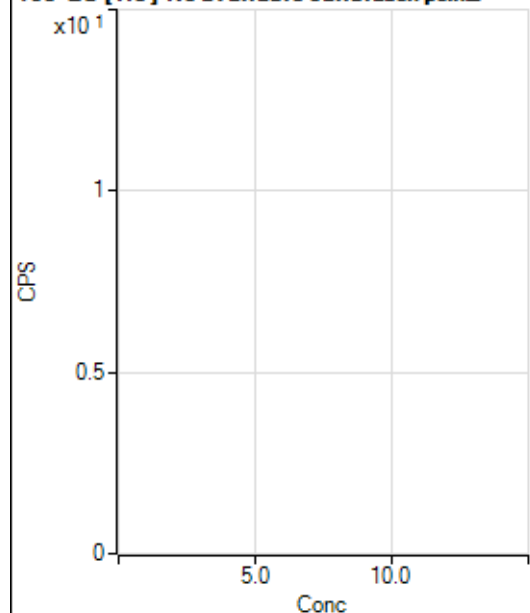
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			16.66		P	86.6
2	☐			25.00		P	88.2
3	☐			19.44		P	89.2
4	☐			19.44		P	99.0
5	☐			44.44		P	21.7
6	☐			44.45		P	57.3
7	☐			66.67		P	21.7
8	☐			125.01		P	17.6

156 Dy [He] No available calibration points

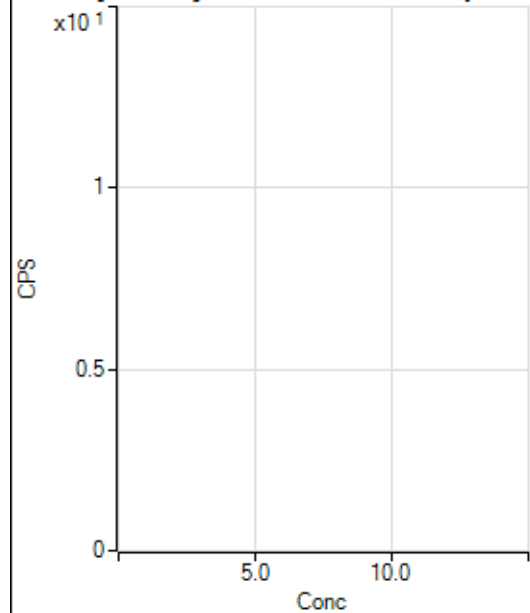
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			6.67		P	50.0
2	☐			3.33		P	173.2
3	☐			1.11		P	173.2
4	☐			4.44		P	114.6
5	☐			10.00		P	0.0
6	☐			8.89		P	78.1
7	☐			23.33		P	14.3
8	☐			77.78		P	10.8

160 Gd [No Gas] Noavailable calibration poin_

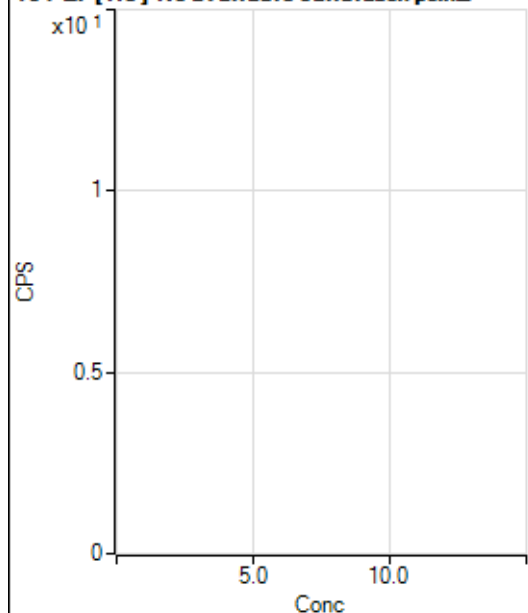
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			44.45		P	10.8
2	☐			36.11		P	58.1
3	☐			25.00		P	0.0
4	☐			33.34		P	43.3
5	☐			50.00		P	33.3
6	☐			50.00		P	57.7
7	☐			47.22		P	36.7
8	☐			197.23		P	17.1

160 Gd [He] No available calibration points

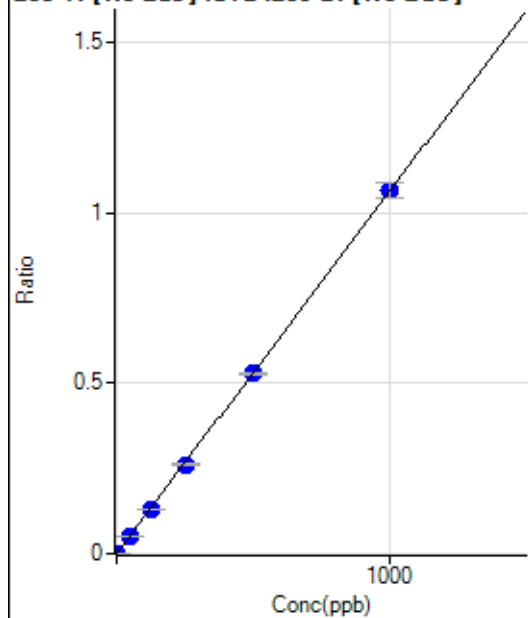
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			8.89		P	57.3
2	☐			5.56		P	34.7
3	☐			12.22		P	56.8
4	☐			11.11		P	62.5
5	☐			10.00		P	66.7
6	☐			24.45		P	43.8
7	☐			33.33		P	45.8
8	☐			82.22		P	13.0

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			13.89		P	124.9
2	☐			16.66		P	86.6
3	☐			8.33		P	0.0
4	☐			25.00		P	33.3
5	☐			33.33		P	25.0
6	☐			13.89		P	34.7
7	☐			36.11		P	35.3
8	☐			47.22		P	10.2

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			6.67		P	50.0
2	☐			1.11		P	173.2
3	☐			3.33		P	100.1
4	☐			4.44		P	43.4
5	☐			10.00		P	33.3
6	☐			7.78		P	24.7
7	☐			13.33		P	50.0
8	☐			25.55		P	27.1

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	25.00	0.0000	P	56.5
2	☐	1.000	0.933	1200.10	0.0010	P	6.8
3	☐	50.000	50.057	62383.83	0.0532	P	1.0
4	☐	125.000	124.125	159418.02	0.1319	P	0.6
5	☐	250.000	245.980	316647.69	0.2614	P	1.7
6	☐	500.000	498.479	646024.06	0.5296	P	1.1
7	☐	1000.000	1001.872	1278791.55	1.0644	P	4.3
8	☐			1494.57	0.0013	P	10.0

$$y = 0.0011 * x + 2.1169E-005$$

$$R = 1.0000$$

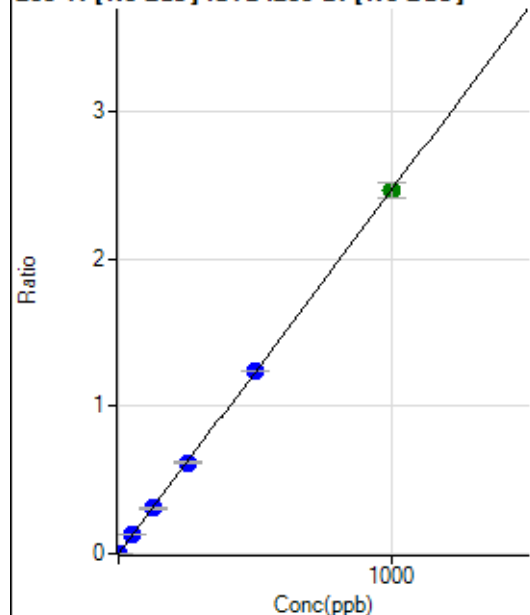
$$DL = 0.03377$$

$$BEC = 0.01993$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	22.22	0.0000	P	22.6
2	☐	1.000	0.934	2755.93	0.0023	P	7.6
3	☐	50.000	50.784	147065.42	0.1254	P	0.3
4	☐	125.000	124.850	372644.43	0.3083	P	1.2
5	☐	250.000	250.591	749655.95	0.6188	P	2.1
6	☐	500.000	503.592	1516875.94	1.2435	P	0.6
7	☐	1000.000	998.036	2960922.64	2.4644	A	4.2
8	☐			3570.05	0.0031	P	6.8

$$y = 0.0025 * x + 1.8926E-005$$

$$R = 1.0000$$

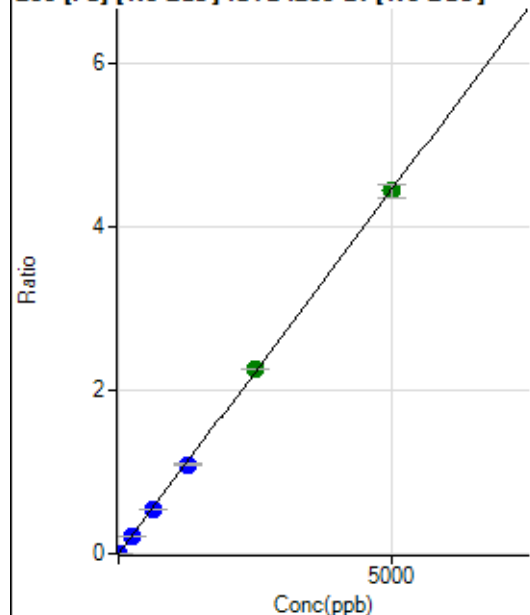
$$DL = 0.005195$$

$$BEC = 0.007665$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	181.49	0.0002	P	13.2
2	☐	1.000	0.978	1214.89	0.0010	P	10.1
3	☐	250.000	247.980	259135.57	0.2210	P	2.4
4	☐	625.000	616.664	664138.47	0.5495	P	0.4
5	☐	1250.000	1224.474	1321626.85	1.0909	P	1.6
6	☐	2500.000	2537.937	2758045.58	2.2609	A	0.6
7	☐	5000.000	4988.556	5339986.64	4.4438	A	3.6
8	☐			7052.05	0.0062	P	2.1

$$y = 8.9077E-004 * x + 1.5412E-004$$

$$R = 0.9999$$

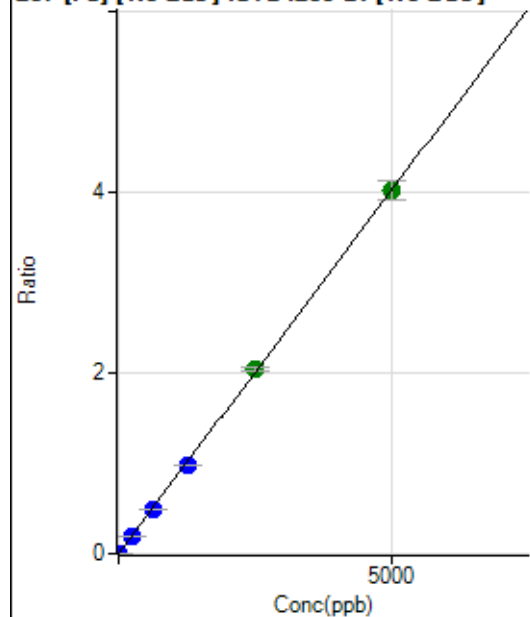
$$DL = 0.06844$$

$$BEC = 0.173$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	174.08	0.0001	P	5.3
2	☐	1.000	0.924	1055.62	0.0009	P	9.4
3	☐	250.000	244.425	230583.12	0.1967	P	2.1
4	☐	625.000	609.165	592212.64	0.4900	P	1.0
5	☐	1250.000	1215.949	1184723.71	0.9779	P	1.4
6	☐	2500.000	2535.838	2487355.09	2.0392	A	2.4
7	☐	5000.000	4992.852	4822066.43	4.0148	A	5.2
8	☐			6177.53	0.0054	P	3.3

$$y = 8.0409\text{E-}004 * x + 1.4792\text{E-}004$$

$$R = 0.9999$$

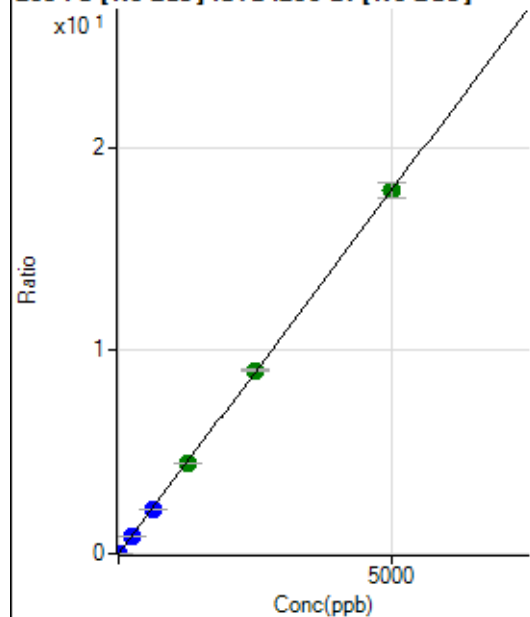
$$DL = 0.02943$$

$$BEC = 0.184$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	751.88	0.0006	P	1.7
2	☐	1.000	0.904	4594.83	0.0039	P	3.9
3	☐	250.000	246.882	1037425.25	0.8849	P	1.9
4	☐	625.000	616.231	2668531.21	2.2078	P	0.7
5	☐	1250.000	1239.249	5378492.99	4.4392	A	0.9
6	☐	2500.000	2524.649	11031023.83	9.0432	A	0.8
7	☐	5000.000	4991.615	21479545.91	17.8791	A	4.4
8	☐			27843.59	0.0244	P	2.5

$$y = 0.0036 * x + 6.3930\text{E-}004$$

$$R = 1.0000$$

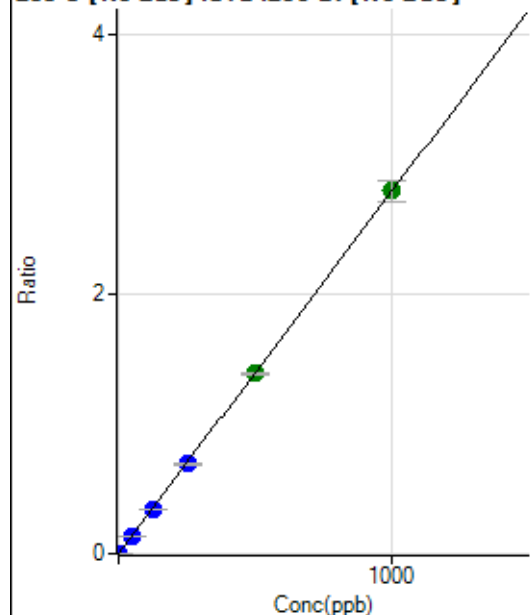
$$DL = 0.009103$$

$$BEC = 0.1785$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	19.44	0.0000	P	49.6
2	☐	1.000	0.942	3131.03	0.0026	P	5.3
3	☐	50.000	49.394	161366.87	0.1376	P	1.2
4	☐	125.000	123.575	416134.74	0.3443	P	1.1
5	☐	250.000	247.111	834017.00	0.6884	P	2.4
6	☐	500.000	496.925	1688789.09	1.3844	A	1.1
7	☐	1000.000	1002.468	3353939.53	2.7928	A	5.8
8	☐			1441.79	0.0013	P	2.0

$$y = 0.0028 * x + 1.6540E-005$$

$$R = 1.0000$$

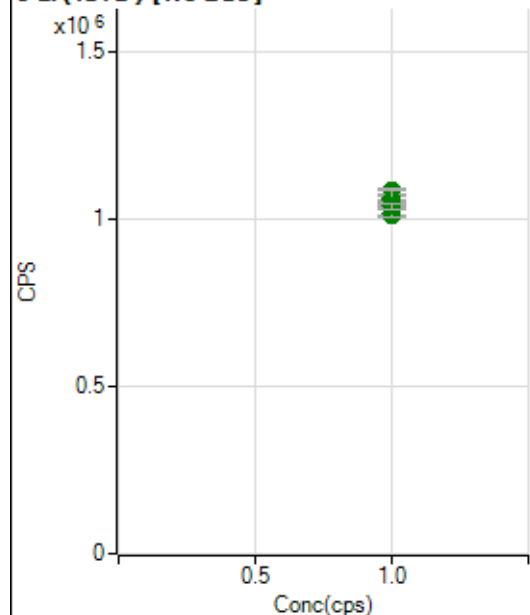
$$DL = 0.008837$$

$$BEC = 0.005937$$

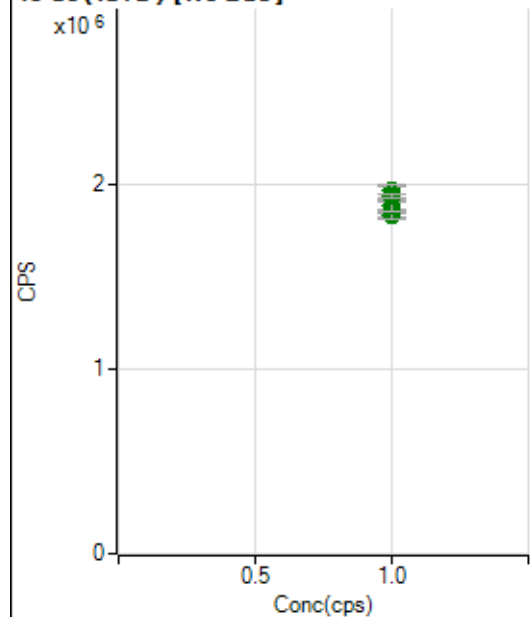
Weight: <None>

Min Conc: 0

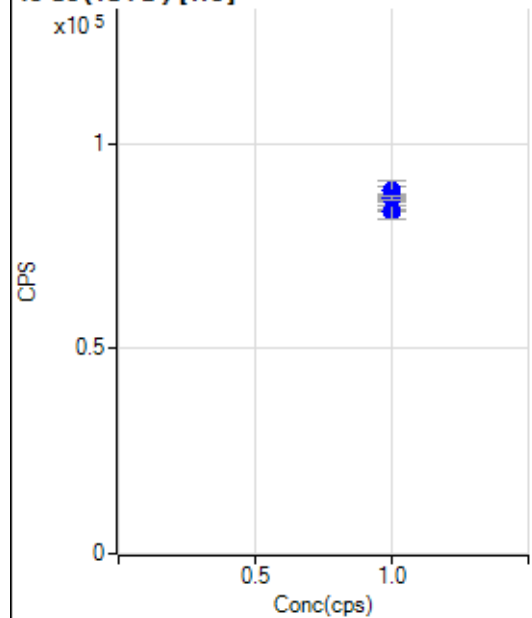
6 Li (ISTD) [No Gas]



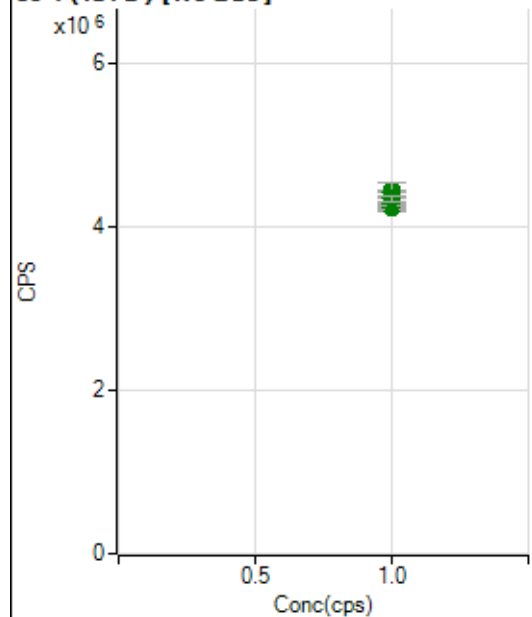
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1040476.54		A	1.3
2	☐	1.000		1010168.07		A	0.9
3	☐	1.000		1019244.38		A	2.0
4	☐	1.000		1050114.65		A	1.6
5	☐	1.000		1061871.07		A	1.5
6	☐	1.000		1085442.69		A	1.4
7	☐	1.000		1056038.16		A	5.4
8	☐	1.000		1038871.14		A	1.3

45 Sc (ISTD) [No Gas]

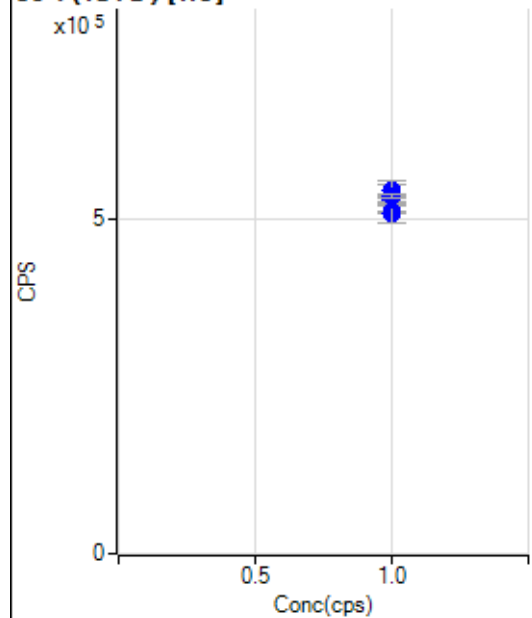
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1832875.35		A	1.8
2	☐	1.000		1851256.33		A	0.9
3	☐	1.000		1835428.24		A	2.9
4	☐	1.000		1882794.26		A	3.1
5	☐	1.000		1938024.80		A	1.1
6	☐	1.000		1962876.55		A	2.1
7	☐	1.000		1948257.68		A	4.6
8	☐	1.000		1934314.07		A	1.1

45 Sc (ISTD) [He]

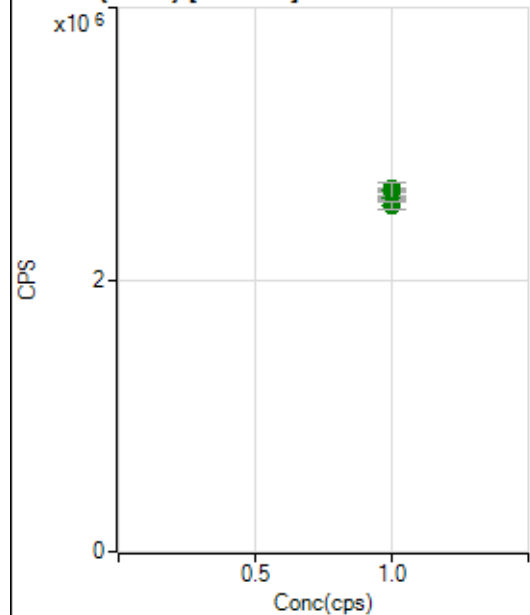
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		83443.69		P	0.4
2	☐	1.000		83605.63		P	0.3
3	☐	1.000		87069.82		P	5.2
4	☐	1.000		83649.88		P	4.9
5	☐	1.000		87009.30		P	0.7
6	☐	1.000		86789.21		P	1.9
7	☐	1.000		88448.68		P	6.0
8	☐	1.000		86683.91		P	1.2

89 Y (ISTD) [No Gas]

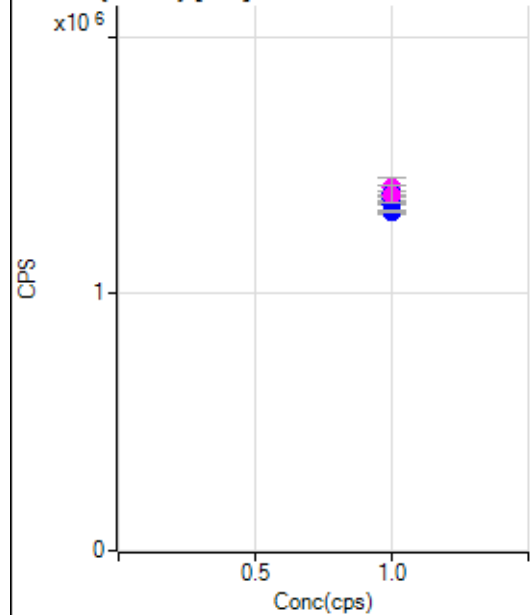
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		4229077.37		A	1.2
2	☐	1.000		4269953.27		A	1.0
3	☐	1.000		4247581.50		A	1.8
4	☐	1.000		4283824.80		A	0.8
5	☐	1.000		4361390.39		A	0.7
6	☐	1.000		4443620.52		A	0.6
7	☐	1.000		4424946.36		A	5.2
8	☐	1.000		4352693.44		A	1.6

89 Y (ISTD) [He]

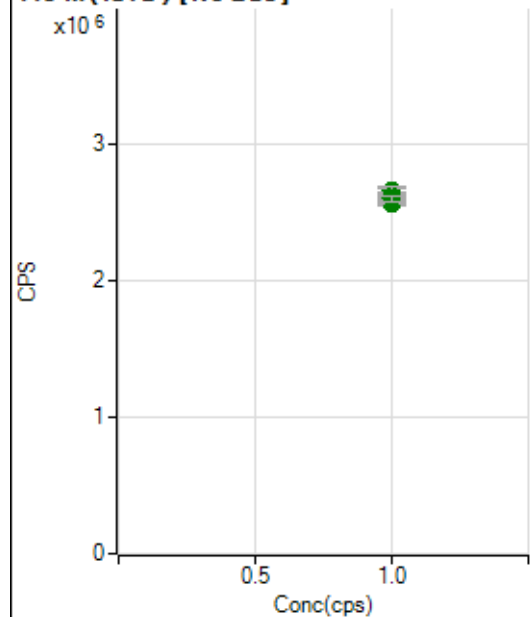
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		508999.11		P	0.1
2	☐	1.000		512410.23		P	0.1
3	☐	1.000		537024.82		P	5.5
4	☐	1.000		511152.77		P	5.8
5	☐	1.000		530577.04		P	1.0
6	☐	1.000		530080.12		P	2.4
7	☐	1.000		543582.49		P	6.1
8	☐	1.000		535116.28		P	1.3

103 Rh (ISTD) [No Gas]

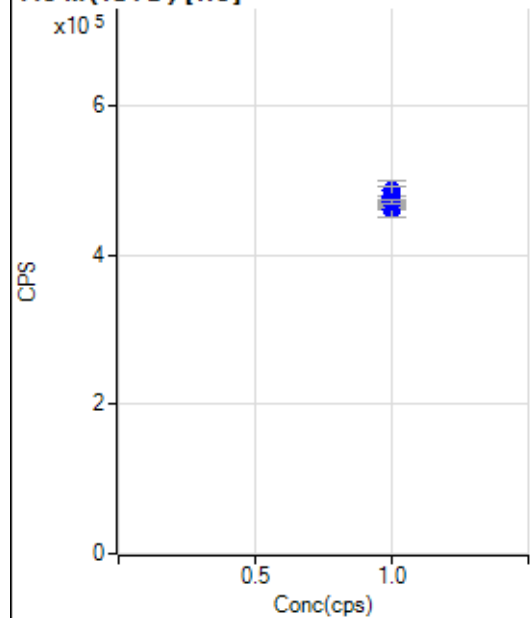
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2614295.33		A	1.9
2	☐	1.000		2610107.37		A	0.3
3	☐	1.000		2598148.06		A	1.4
4	☐	1.000		2618334.91		A	0.4
5	☐	1.000		2664094.74		A	0.6
6	☐	1.000		2668040.92		A	0.5
7	☐	1.000		2652827.88		A	4.6
8	☐	1.000		2541681.98		A	2.2

103 Rh (ISTD) [He]

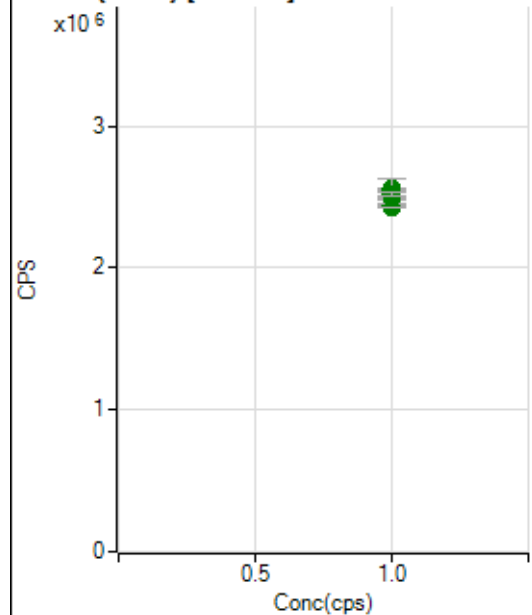
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1352400.32		P	0.7
2	☐	1.000		1358362.52		P	0.6
3	☐	1.000		1412810.81		M	5.4
4	☐	1.000		1345614.88		P	5.1
5	☐	1.000		1389694.53		P	1.3
6	☐	1.000		1370409.13		P	2.3
7	☐	1.000		1386604.14		M	5.0
8	☐	1.000		1321017.87		P	0.6

115 In (ISTD) [No Gas]

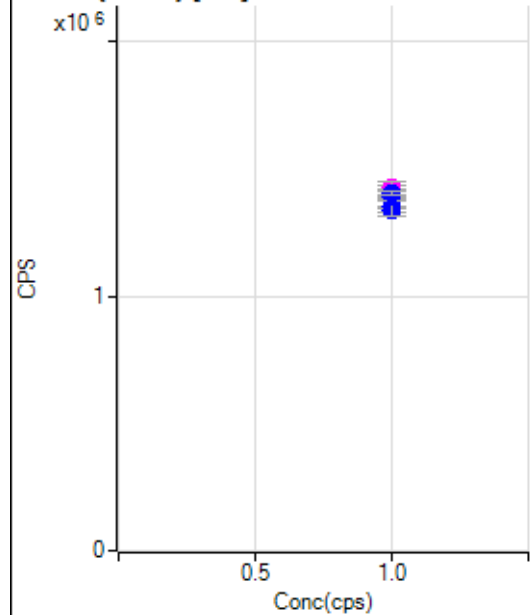
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2572327.86		A	1.4
2	☐	1.000		2586015.19		A	2.3
3	☐	1.000		2569563.45		A	0.7
4	☐	1.000		2636407.73		A	0.4
5	☐	1.000		2641431.59		A	0.5
6	☐	1.000		2661519.30		A	0.9
7	☐	1.000		2625614.81		A	4.9
8	☐	1.000		2605871.00		A	1.8

115 In (ISTD) [He]

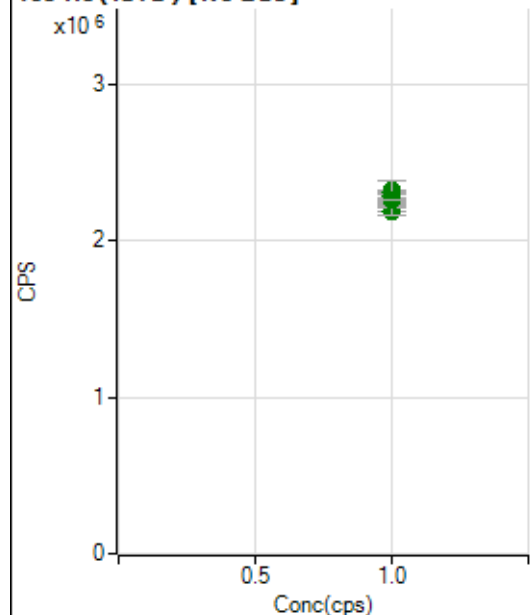
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		461098.57		P	0.2
2	☐	1.000		464022.45		P	0.4
3	☐	1.000		486268.70		P	5.9
4	☐	1.000		462611.71		P	5.0
5	☐	1.000		477030.53		P	0.9
6	☐	1.000		472290.84		P	2.9
7	☐	1.000		478391.53		P	6.3
8	☐	1.000		470969.02		P	1.3

159 Tb (ISTD) [No Gas]

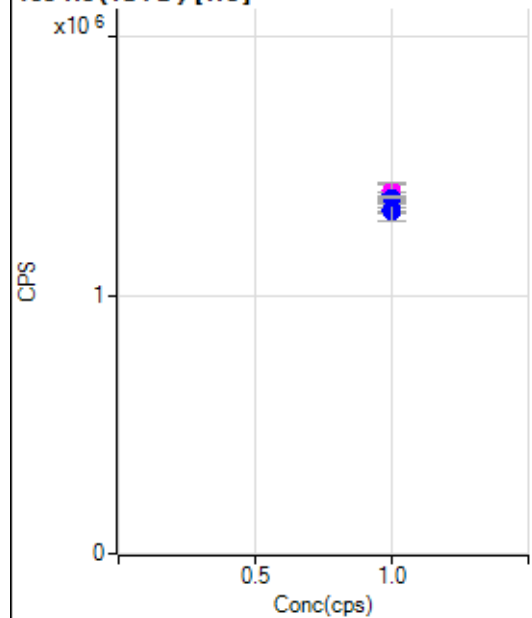
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2455384.62		A	1.9
2	☐	1.000		2428038.30		A	0.7
3	☐	1.000		2437948.07		A	1.2
4	☐	1.000		2498907.10		A	0.7
5	☐	1.000		2531233.57		A	1.6
6	☐	1.000		2545984.89		A	0.9
7	☐	1.000		2557336.09		A	5.2
8	☐	1.000		2519260.48		A	1.2

159 Tb (ISTD) [He]

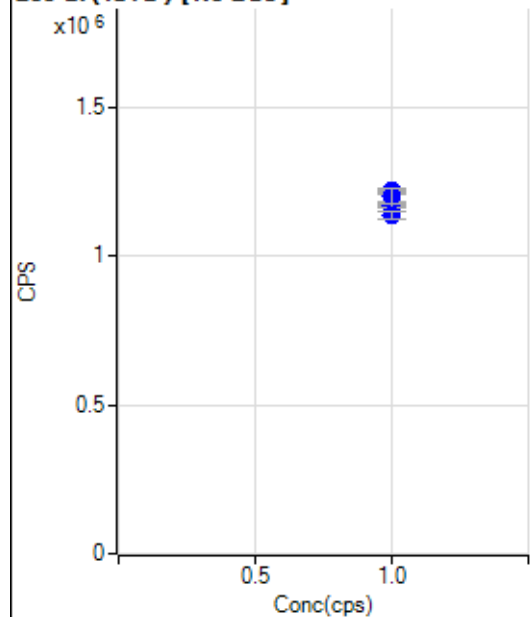
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1335962.81		P	0.7
2	☐	1.000		1346893.99		P	0.4
3	☐	1.000		1405636.06		M	3.9
4	☐	1.000		1351059.25		P	5.2
5	☐	1.000		1408050.25		P	1.5
6	☐	1.000		1391719.44		P	3.1
7	☐	1.000		1423959.96		M	4.0
8	☐	1.000		1402421.64		P	1.4

165 Ho (ISTD) [No Gas]

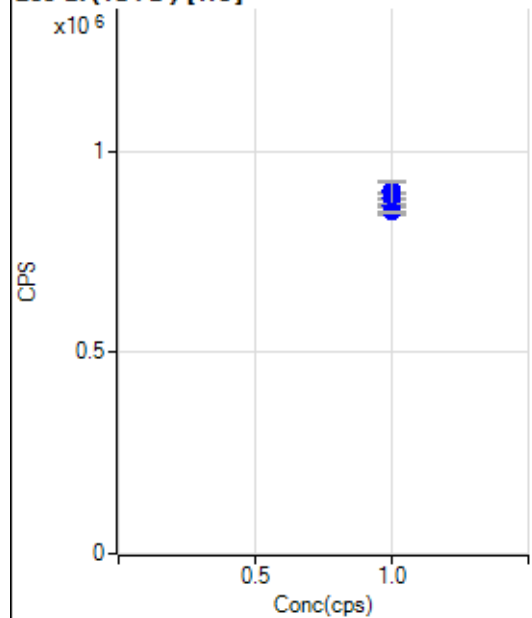
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2228360.36		A	0.5
2	☐	1.000		2205143.19		A	1.8
3	☐	1.000		2184118.39		A	2.2
4	☐	1.000		2285393.76		A	0.7
5	☐	1.000		2278659.84		A	2.5
6	☐	1.000		2316245.41		A	0.3
7	☐	1.000		2311223.49		A	6.0
8	☐	1.000		2255497.47		A	0.2

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1320820.72		P	0.7
2	☐	1.000		1329766.13		P	0.9
3	☐	1.000		1392225.17		P	5.5
4	☐	1.000		1322739.70		P	5.1
5	☐	1.000		1388373.69		P	1.5
6	☐	1.000		1377983.63		P	2.5
7	☐	1.000		1403534.50		M	4.8
8	☐	1.000		1376803.45		P	0.6

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1176257.84		P	1.4
2	☐	1.000		1185338.32		P	0.1
3	☐	1.000		1172628.78		P	1.8
4	☐	1.000		1208700.43		P	0.4
5	☐	1.000		1211615.39		P	0.8
6	☐	1.000		1219866.74		P	0.7
7	☐	1.000		1203040.03		P	4.7
8	☐	1.000		1139469.45		P	2.0

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		862244.97		P	0.6
2	☐	1.000		869564.71		P	0.3
3	☐	1.000		901366.84		P	5.3
4	☐	1.000		862940.49		P	4.9
5	☐	1.000		896932.70		P	0.7
6	☐	1.000		882647.45		P	3.0
7	☐	1.000		896363.83		P	5.7
8	☐	1.000		848212.04		P	0.8

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8112320 MS.b
Acq. Date-Time 2020-11-23 14:19:48
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		2719	27186.79			0.514	5.000
24		32475	324746.69			1.414	5.000
25		4233	42328.31			0.962	5.000
26		4917	49168.82			1.179	5.000
59		14584	145843.83			1.099	5.000
113		1844	18441.05			0.998	5.000
115		5570	55698.41			1.178	5.000
206		1539	15386.60			1.506	5.000
207		1287	12868.92			1.241	5.000
208		3110	31100.34			1.160	5.000
220		1	12.50			18.547	

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

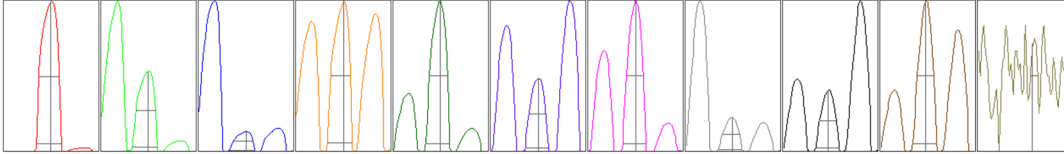
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	2713	2703	2710	2731	2735
24	32675	32163	31828	32858	32849
25	4232	4202	4188	4291	4251
26	4931	4910	4823	4941	4979
59	14630	14446	14389	14697	14760
113	1827	1832	1834	1862	1866
115	5631	5526	5477	5611	5604
206	1531	1505	1549	1568	1540
207	1272	1272	1283	1301	1306
208	3141	3051	3117	3105	3136

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	4530.49	9.00	8.90 - 9.10	
24	55258.55	24.00	23.90 - 24.10	
25	7244.58	25.05	24.90 - 25.10	
26	8440.12	26.05	25.90 - 26.10	
59	27081.53	59.00	58.90 - 59.10	
113	3598.76	113.05	112.90 - 113.10	
115	11080.86	115.05	114.90 - 115.10	
206	2993.16	206.00	205.90 - 206.10	
207	2501.72	206.95	206.90 - 207.10	
208	6242.38	207.95	207.90 - 208.10	
220	1.45	220.25	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.64	0.787	0.900	
24	0.62	0.785	0.900	
25	0.62	0.787	0.900	
26	0.63	0.786	0.900	
59	0.57	0.766	0.900	
113	0.53	0.731	0.900	
115	0.52	0.733	0.900	
206	0.54	0.742	0.900	
207	0.53	0.748	0.900	
208	0.52	0.765	0.900	
220	0.22			

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode HMI Nebulizer Gas 0.52 L/min Dilution Gas 0.47 L/min

US EPA Tune Check Report

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

Lens Parameters

Extract 1	-6.0 V	Omega Lens	8.4 V	Deflect	12.8 V
Extract 2	-205.0 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	190 V		

QP Parameters

Mass Gain	123	Axis Gain	0.9990	QP Bias	-4.0 V
Mass Offset	123	Axis Offset	0.00		

Hardware Settings

Torch

Torch H	0.9 mm	Torch V	-0.2 mm
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EM

Discriminator	3.9 mV	Analog HV	2180 V	Pulse HV	1331 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		3528	35281.60			3.286	
89		7653	76530.30			3.698	
205		5042	50423.22			2.987	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	3322	3560	3576	3581	3601
89	7154	7699	7826	7794	7791
205	4775	5109	5088	5138	5101

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	HMI	Nebulizer Gas	0.52 L/min	Dilution Gas	0.47 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	8.4 V	Deflect	4.8 V
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US EPA Tune Check Report

Extract 2	-205.0 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	123	Axis Gain	0.9990	QP Bias	-13.0 V
Mass Offset	123	Axis Offset	0.00		
Hardware Settings					
Torch					
Torch H	0.9 mm	Torch V	-0.2 mm		
EM					
Discriminator	3.9 mV	Analog HV	2180 V	Pulse HV	1331 V