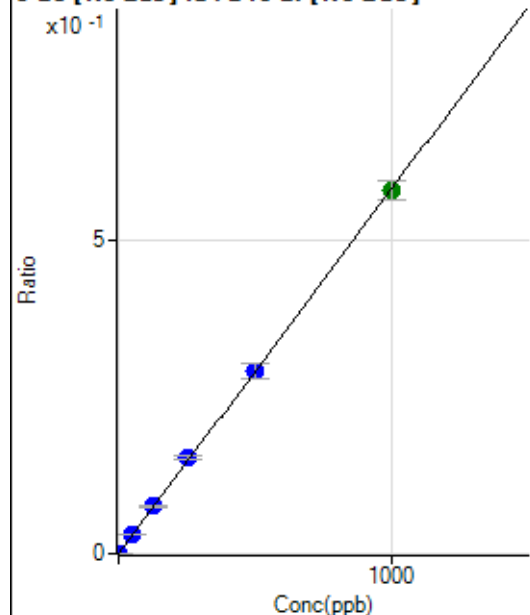


Batch Folder: D:\Agilent\ICPMH\1\DATA\P7120522MS.b\
Analysis File: P7120522MS.batch.bin
DA Date-Time: 2022-12-05 11:06:14
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2022-12-05 10:10:47
2	005CALS.d	S02	2022-12-05 10:13:38
3	006CALS.d	S03	2022-12-05 10:16:32
4	007CALS.d	S04	2022-12-05 10:19:19
5	008CALS.d	S05	2022-12-05 10:22:04
6	009CALS.d	S06	2022-12-05 10:24:48
7	010CALS.d	S07	2022-12-05 10:27:35
8	011CALS.d	S08	2022-12-05 10:30:19

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	86.67	0.0000	P	25.3
2	☐	1.000	1.034	1847.90	0.0006	P	3.0
3	☐	50.000	53.613	95036.00	0.0312	P	3.6
4	☐	125.000	129.712	232655.60	0.0753	P	6.4
5	☐	250.000	265.085	465089.32	0.1539	P	4.5
6	☐	500.000	501.051	896590.75	0.2909	P	7.5
7	☐	1000.000	994.934	1780894.52	0.5777	A	5.1
8	☐			908.93	0.0003	P	6.6

$$y = 5.8062\text{E-}004 * x + 2.9017\text{E-}005$$

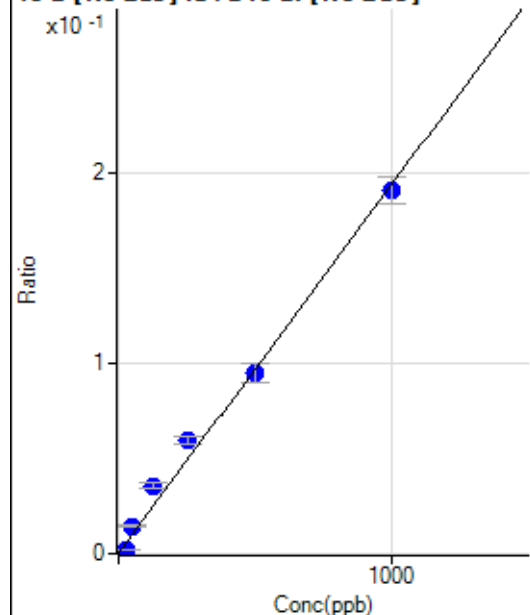
$$R = 0.9999$$

$$DL = 0.03794$$

$$BEC = 0.04998$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	786.15	0.0003	P	3.1
2	☐	25.000	8.067	5356.61	0.0018	P	3.8
3	☐	50.000	74.149	44575.97	0.0146	P	7.3
4	☐	125.000	182.849	110051.50	0.0357	P	9.5
5	☐	250.000	307.530	180583.93	0.0598	P	7.5
6	☐	500.000	488.430	291971.07	0.0948	P	10.2
7	☐	1000.000	983.387	587468.76	0.1906	P	7.3
8	☐			23640.86	0.0085	P	9.1

$$y = 1.9358\text{E-}004 * x + 2.6256\text{E-}004$$

$$R = 0.9961$$

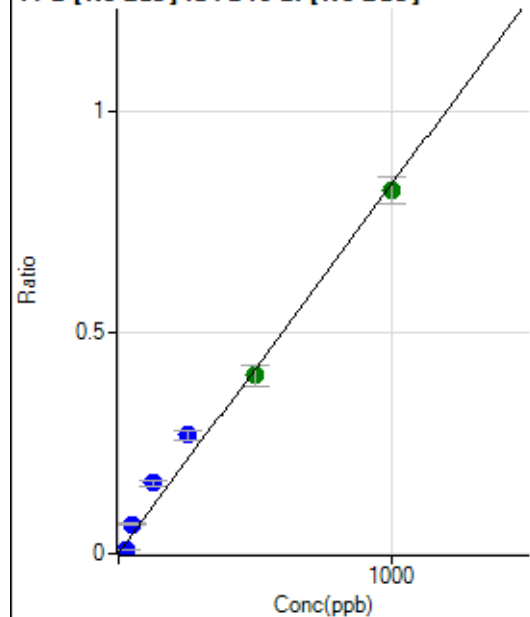
$$DL = 0.1256$$

$$BEC = 1.356$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	3189.29	0.0011	P	4.0
2	☐	25.000	8.771	24584.02	0.0084	P	7.1
3	☐	50.000	77.999	201299.14	0.0660	P	6.4
4	☐	125.000	190.309	492366.30	0.1595	P	8.9
5	☐	250.000	319.588	806792.50	0.2672	P	8.1
6	☐	500.000	481.750	1237926.03	0.4022	A	11.7
7	☐	1000.000	982.570	2524263.53	0.8191	A	7.3
8	☐			102395.13	0.0367	P	8.3

$$y = 8.3259\text{E-}004 * x + 0.0011$$

$$R = 0.9947$$

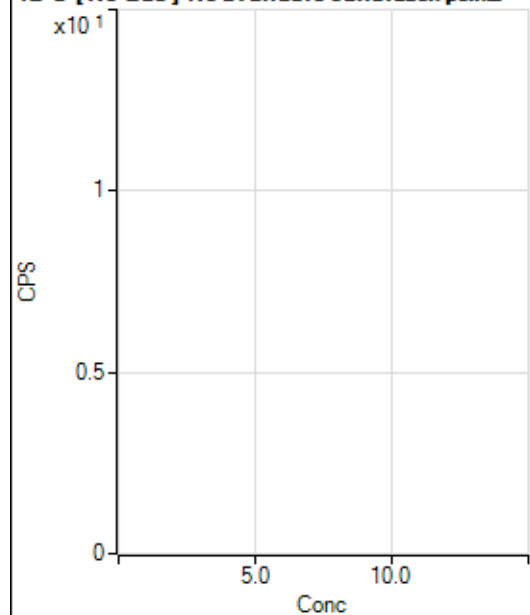
$$DL = 0.1536$$

$$BEC = 1.278$$

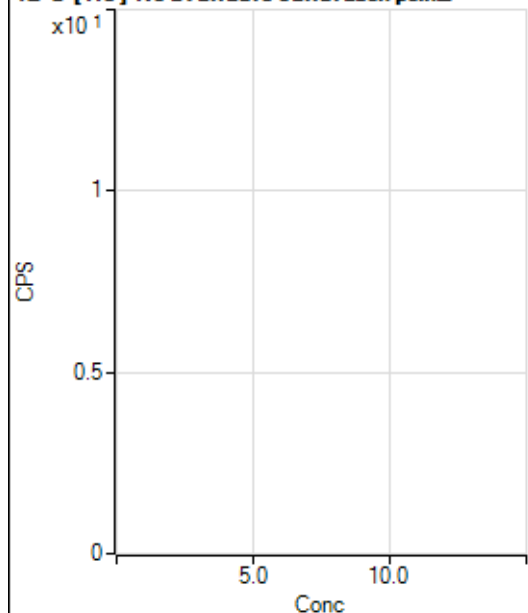
Weight: <None>

Min Conc: 0

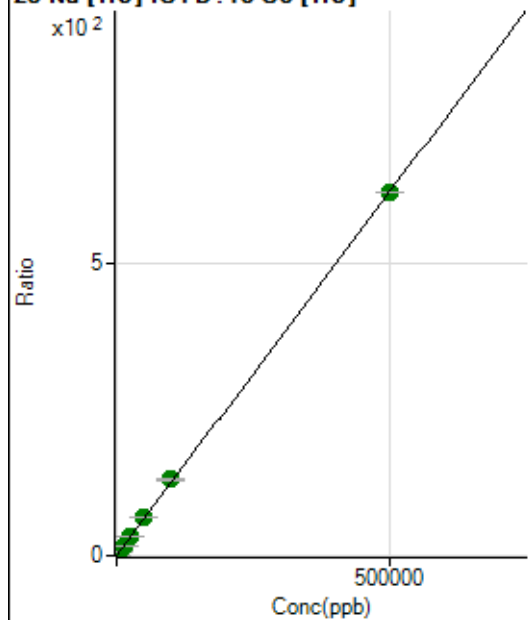
12 C [No Gas] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	110202.35	0.2894	P	0.8
2	☐	500.000	490.593	339125.37	0.9006	P	0.6
3	☐	5000.000	5222.218	2574673.87	6.7951	A	1.2
4	☐	12500.000	13085.786	6194322.24	16.5912	A	1.0
5	☐	25000.000	25907.960	12077421.10	32.5646	A	1.3
6	☐	50000.000	51633.520	23867068.82	64.6126	A	0.5
7	☐	100000.00	104337.86	48940332.57	130.2697	A	0.3
8	☐	500000.00	498906.82	242299210.9	621.8092	A	0.1

$$y = 0.0012 * x + 0.2894$$

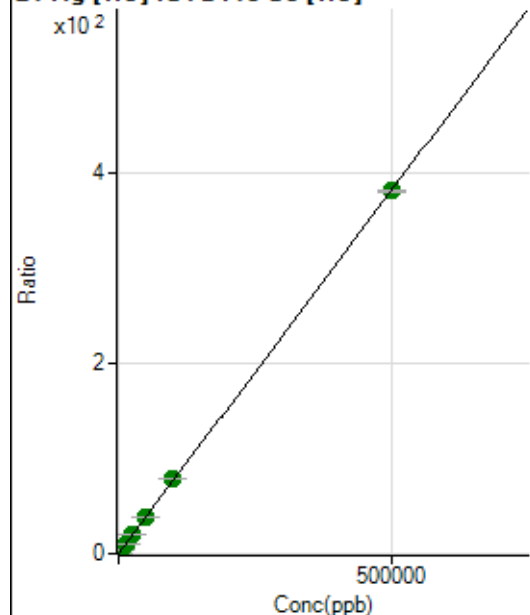
$$R = 1.0000$$

$$DL = 5.53$$

$$BEC = 232.3$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	3859.81	0.0101	P	3.8
2	☐	500.000	484.250	143198.06	0.3803	P	0.4
3	☐	5000.000	5257.552	1526558.13	4.0288	A	0.4
4	☐	12500.000	12931.357	3693983.30	9.8942	A	1.2
5	☐	25000.000	26002.036	7374857.23	19.8848	A	0.2
6	☐	50000.000	51116.747	14436302.75	39.0813	A	0.4
7	☐	100000.00	102459.58	29425793.71	78.3253	A	0.7
8	☐	500000.00	499332.96	148724684.8	381.6763	A	0.7

$$y = 7.6435\text{E-}004 * x + 0.0101$$

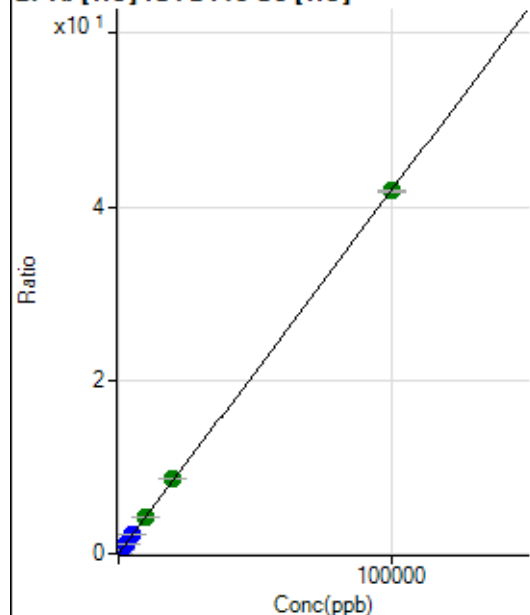
$$R = 1.0000$$

$$DL = 1.509$$

$$BEC = 13.26$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	4576.70	0.0120	P	5.1
2	☐	20.000	70.737	15682.23	0.0416	P	2.3
3	☐	1000.000	1112.412	181091.50	0.4779	P	0.8
4	☐	2500.000	2667.275	421569.18	1.1291	P	0.6
5	☐	5000.000	5210.664	813847.83	2.1944	P	0.4
6	☐	10000.000	10215.649	1584956.88	4.2906	A	1.0
7	☐	20000.000	20444.479	3221395.24	8.5747	A	0.4
8	☐	100000.00	99873.690	16304455.81	41.8418	A	0.9

$$y = 4.1883\text{E-}004 * x + 0.0120$$

$$R = 1.0000$$

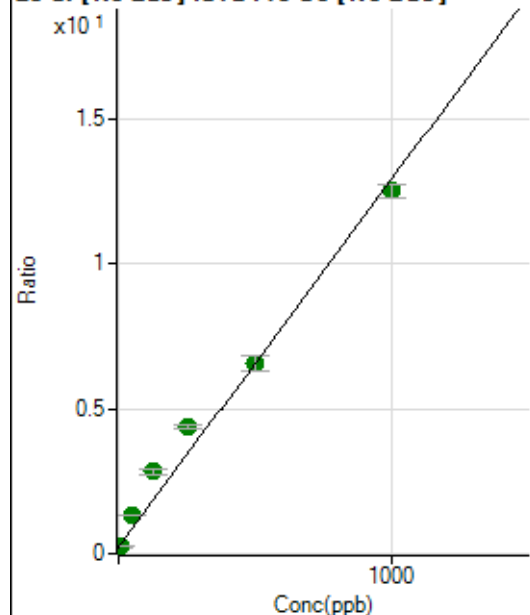
$$DL = 4.434$$

$$BEC = 28.71$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1267840.24	0.2264	A	0.9
2	☐	10.000	1.281	1318457.40	0.2426	A	3.7
3	☐	50.000	85.059	7348944.18	1.3055	A	1.3
4	☐	125.000	205.141	16201947.93	2.8291	A	6.6
5	☐	250.000	328.094	24383973.12	4.3891	A	2.4
6	☐	500.000	500.025	36747636.24	6.5705	A	8.8
7	☐	1000.000	968.781	71160450.90	12.5178	A	4.0
8	☐			2026116.65	0.3621	A	5.9

$$y = 0.0127 * x + 0.2264$$

$$R = 0.9936$$

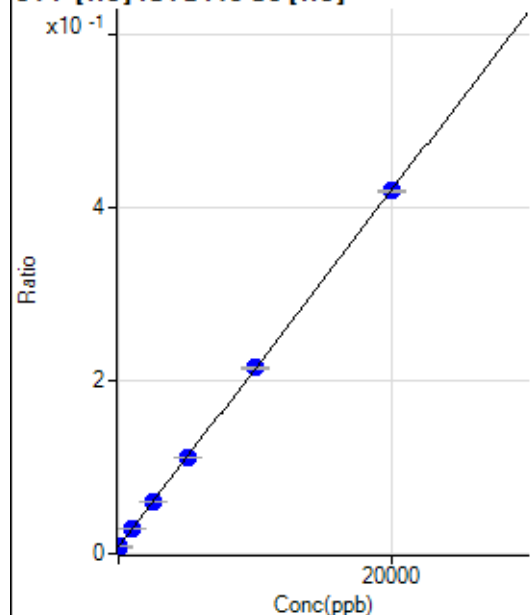
$$DL = 0.4766$$

$$BEC = 17.84$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-18.678	2861.46	0.0075	P	3.6
2	☐	0.000	18.678	3119.84	0.0083	P	0.8
3	☐	1000.000	1012.572	10909.67	0.0288	P	1.9
4	☐	2500.000	2508.443	22272.12	0.0597	P	0.2
5	☐	5000.000	5009.668	41264.43	0.1113	P	1.0
6	☐	10000.000	10060.995	79595.81	0.2155	P	0.8
7	☐	20000.000	19965.402	157723.27	0.4198	P	0.7
8	☐			2886.45	0.0074	P	7.4

$$y = 2.0632E-005 * x + 0.0079$$

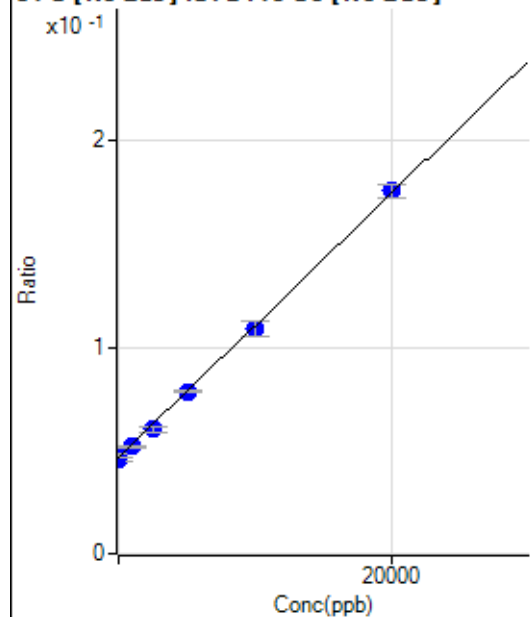
$$R = 1.0000$$

$$DL = 24.49$$

$$BEC = 382.9$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-121.526	256596.77	0.0458	P	3.2
2	☐	0.000	121.526	257508.65	0.0474	P	2.6
3	☐	1000.000	801.988	291222.23	0.0517	P	0.9
4	☐	2500.000	2151.513	345913.36	0.0604	P	4.8
5	☐	5000.000	4975.665	435813.87	0.0784	P	1.2
6	☐	10000.000	9797.947	611728.44	0.1093	P	6.9
7	☐	20000.000	20160.571	998382.01	0.1756	P	4.0
8	☐			248100.53	0.0443	P	1.2

$$y = 6.3996E-006 * x + 0.0466$$

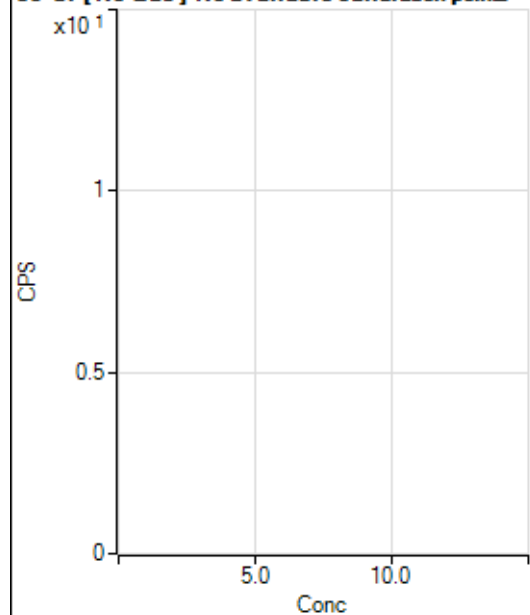
$$R = 0.9997$$

$$DL = 636$$

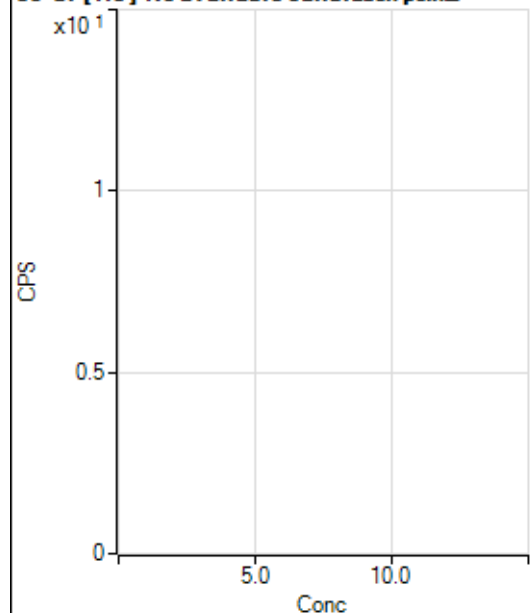
$$BEC = 7282$$

Weight: <None>

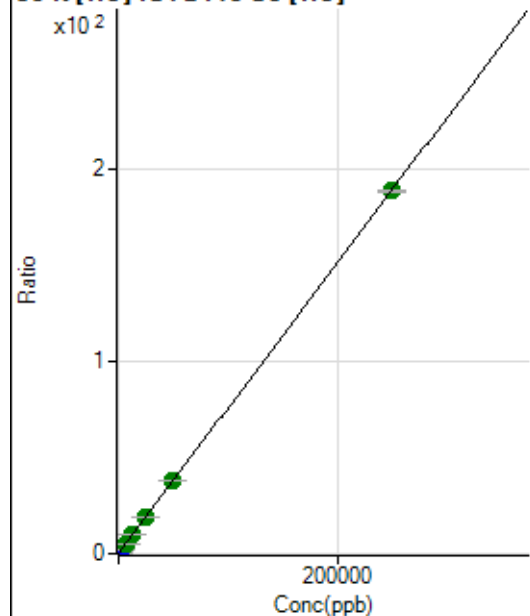
Min Conc: 0

35 Cl [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	53015.14	0.1392	P	2.0
2	☐	500.000	510.224	197314.96	0.5240	P	1.4
3	☐	2500.000	2751.474	838988.56	2.2142	P	0.3
4	☐	6250.000	6374.015	1846642.88	4.9460	A	1.2
5	☐	12500.000	12566.391	3566271.48	9.6158	A	0.5
6	☐	25000.000	24833.560	6969138.26	18.8667	A	0.2
7	☐	50000.000	50512.679	14363109.52	38.2318	A	0.2
8	☐	250000.00	249905.15	73489150.25	188.5973	A	0.8

$$y = 7.5412\text{E-}004 * x + 0.1392$$

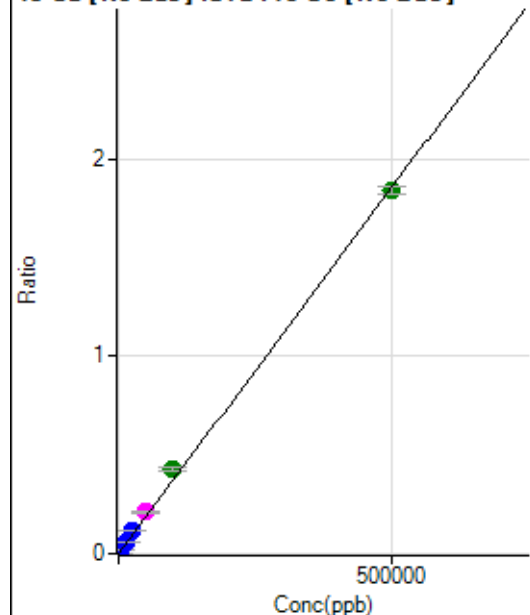
$$R = 1.0000$$

$$DL = 11.17$$

$$BEC = 184.6$$

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	663.92	0.0001	P	5.0
2	☐	500.000	511.474	10965.38	0.0020	P	1.1
3	☐	5000.000	6266.454	131587.74	0.0234	P	3.2
4	☐	12500.000	15116.703	321871.60	0.0562	P	7.8
5	☐	25000.000	31216.436	644295.38	0.1160	P	2.7
6	☐	50000.000	57109.753	1187831.69	0.2121	M	4.2
7	☐	100000.00	115284.65	2432727.40	0.4280	A	4.5
8	☐	500000.00	495843.17	10299383.22	1.8403	A	2.0

$$y = 3.7113\text{E-}006 * x + 1.1844\text{E-}004$$

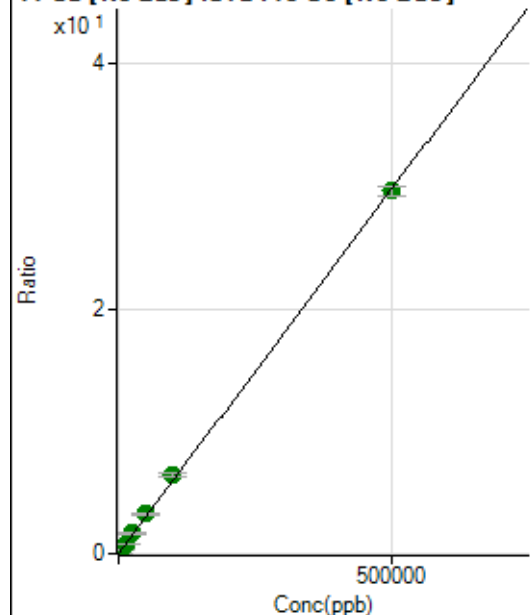
$$R = 0.9994$$

$$DL = 4.802$$

$$BEC = 31.91$$

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	53994.09	0.0096	P	2.0
2	☐	500.000	511.060	217746.47	0.0401	P	1.2
3	☐	5000.000	5622.931	1937847.83	0.3442	A	2.6
4	☐	12500.000	13423.417	4628735.30	0.8084	A	7.4
5	☐	25000.000	27834.452	9255435.19	1.6660	A	2.4
6	☐	50000.000	53956.939	18018021.58	3.2204	A	7.6
7	☐	100000.00	107658.89	36466109.49	6.4161	A	5.1
8	☐	500000.00	497901.47	165861012.0	29.6381	A	3.0

$$y = 5.9507\text{E-}005 * x + 0.0096$$

$$R = 0.9999$$

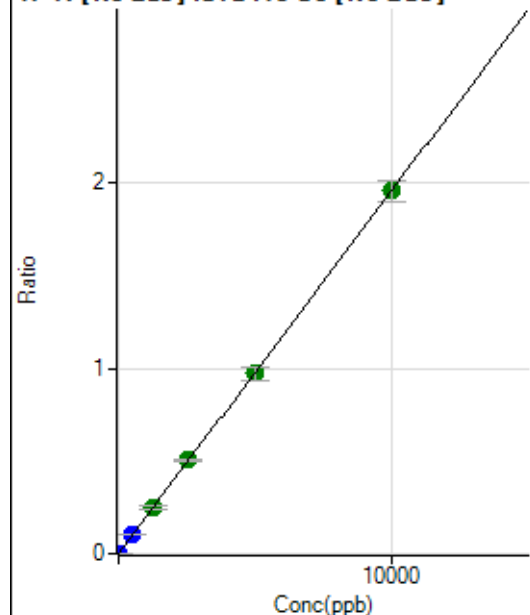
$$DL = 9.835$$

$$BEC = 162$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	341.68	0.0001	P	4.5
2	☐	5.000	4.434	5053.76	0.0009	P	9.1
3	☐	500.000	533.985	589242.97	0.1047	P	2.0
4	☐	1250.000	1257.056	1410197.24	0.2463	A	8.0
5	☐	2500.000	2577.507	2805731.66	0.5050	A	2.4
6	☐	5000.000	4957.851	5434279.20	0.9714	A	7.9
7	☐	10000.000	9999.117	11132834.71	1.9590	A	5.9
8	☐			3417.15	0.0006	P	10.8

$$y = 1.9591\text{E-}004 * x + 6.1034\text{E-}005$$

$$R = 1.0000$$

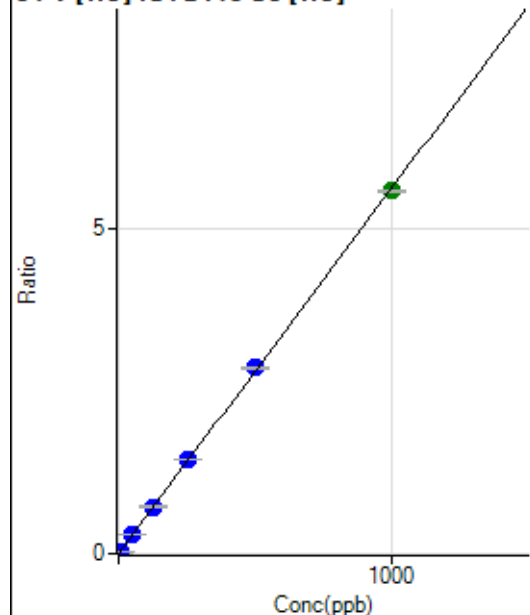
$$DL = 0.0422$$

$$BEC = 0.3115$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	14.44	0.0000	P	14.2
2	☐	5.000	4.861	10273.57	0.0273	P	0.7
3	☐	50.000	51.581	109553.93	0.2891	P	0.2
4	☐	125.000	128.767	269444.12	0.7217	P	0.8
5	☐	250.000	257.633	535517.82	1.4439	P	0.1
6	☐	500.000	508.400	1052494.51	2.8493	P	0.5
7	☐	1000.000	993.342	2091470.25	5.5671	A	0.7
8	☐			802.25	0.0021	P	7.1

$$y = 0.0056 * x + 3.7961\text{E-}005$$

$$R = 0.9999$$

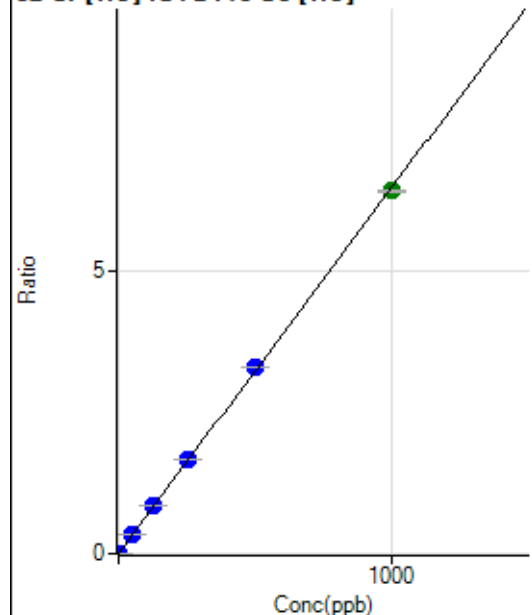
$$DL = 0.002889$$

$$BEC = 0.006773$$

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	762.25	0.0020	P	9.3
2	☐	2.000	1.936	5462.14	0.0145	P	4.4
3	☐	50.000	52.409	128977.71	0.3404	P	0.9
4	☐	125.000	130.869	316227.95	0.8470	P	0.4
5	☐	250.000	259.797	622872.21	1.6794	P	0.1
6	☐	500.000	509.381	1215616.44	3.2909	P	0.8
7	☐	1000.000	992.006	2407062.92	6.4071	A	0.3
8	☐			15386.81	0.0395	P	2.2

$$y = 0.0065 * x + 0.0020$$

$$R = 0.9999$$

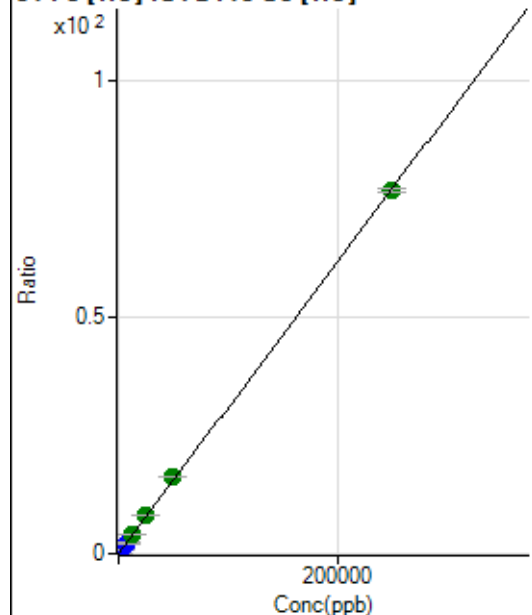
$$DL = 0.0863$$

$$BEC = 0.3101$$

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	1354.79	0.0036	P	13.7
2	☐	50.000	55.187	7733.24	0.0205	P	1.6
3	☐	2500.000	2908.309	340414.32	0.8984	P	0.3
4	☐	6250.000	7235.936	832534.33	2.2299	P	0.6
5	☐	12500.000	13679.459	1562307.71	4.2125	A	0.9
6	☐	25000.000	26884.803	3056843.35	8.2755	A	0.9
7	☐	50000.000	52978.365	6125168.81	16.3041	A	0.5
8	☐	250000.00	249128.14	29869904.69	76.6559	A	1.2

$$y = 3.0768E-004 * x + 0.0036$$

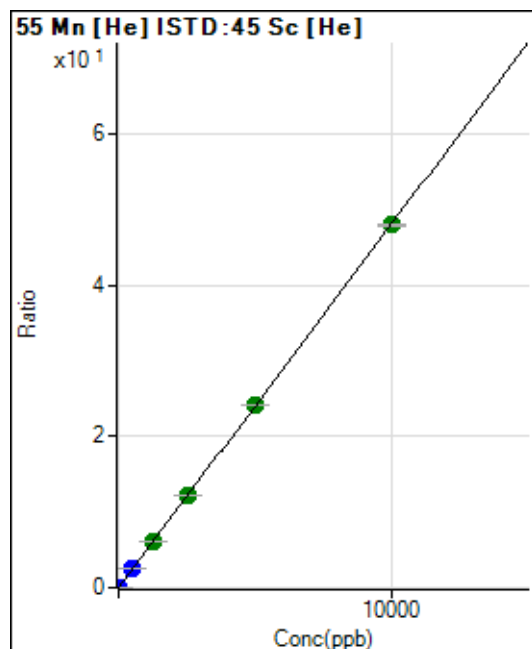
$$R = 0.9999$$

$$DL = 4.753$$

$$BEC = 11.56$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1457.87	0.0038	P	1.6
2	☐	1.000	0.403	2172.40	0.0058	P	5.4
3	☐	500.000	527.352	963639.88	2.5431	P	0.2
4	☐	1250.000	1269.542	2283755.12	6.1170	A	1.1
5	☐	2500.000	2534.826	4528224.52	12.2096	A	0.8
6	☐	5000.000	5019.968	8930265.08	24.1761	A	0.7
7	☐	10000.000	9977.499	18050695.84	48.0477	A	0.7
8	☐			21209.45	0.0544	P	2.0

$$y = 0.0048 * x + 0.0038$$

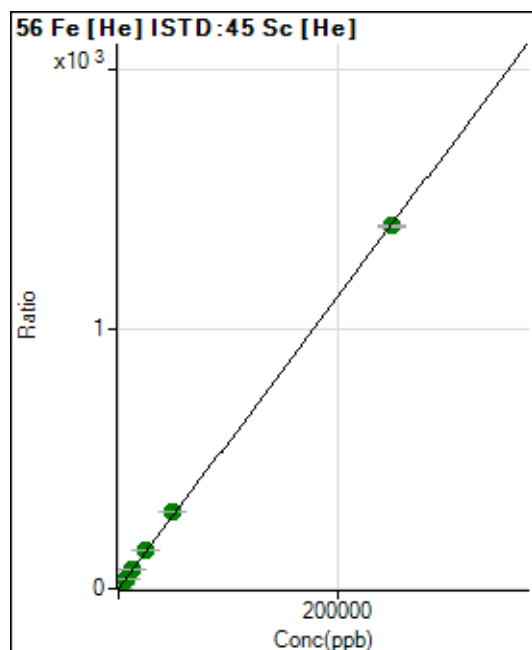
$$R = 1.0000$$

$$DL = 0.03801$$

$$BEC = 0.7951$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	7568.70	0.0199	P	1.1
2	☐	50.000	52.999	119290.55	0.3168	P	0.9
3	☐	2500.000	2705.255	5750115.87	15.1754	A	1.0
4	☐	6250.000	6851.759	14338746.50	38.4052	A	0.4
5	☐	12500.000	13528.688	28116159.66	75.8110	A	1.1
6	☐	25000.000	26477.410	54798802.15	148.3530	A	0.9
7	☐	50000.000	52862.517	111266233.0	296.1691	A	0.8
8	☐	250000.00	249211.22	544037175.1	1,396.164	A	0.2

$$y = 0.0056 * x + 0.0199$$

$$R = 0.9999$$

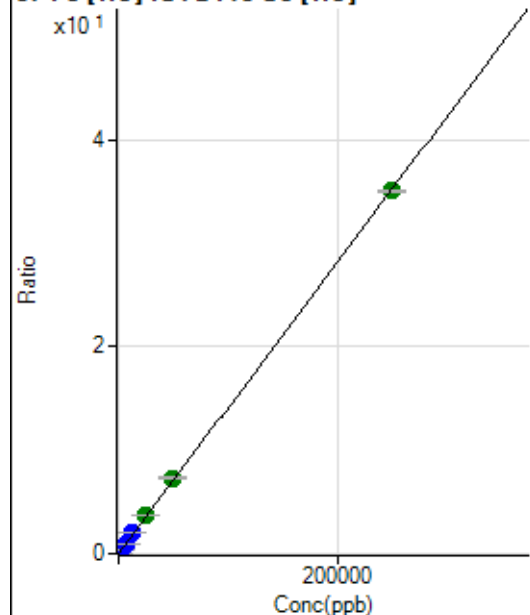
$$DL = 0.1173$$

$$BEC = 3.548$$

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	566.69	0.0015	P	9.4
2	☐	50.000	57.559	3609.77	0.0096	P	5.2
3	☐	2500.000	2808.192	150276.23	0.3966	P	0.8
4	☐	6250.000	7030.374	369845.02	0.9906	P	0.5
5	☐	12500.000	14014.800	731852.14	1.9733	P	0.4
6	☐	25000.000	26073.082	1355567.20	3.6698	A	1.1
7	☐	50000.000	52084.031	2753568.26	7.3294	A	0.9
8	☐	250000.00	249377.55	13672357.60	35.0875	A	0.4

$$y = 1.4069\text{E-}004 * x + 0.0015$$

$$R = 1.0000$$

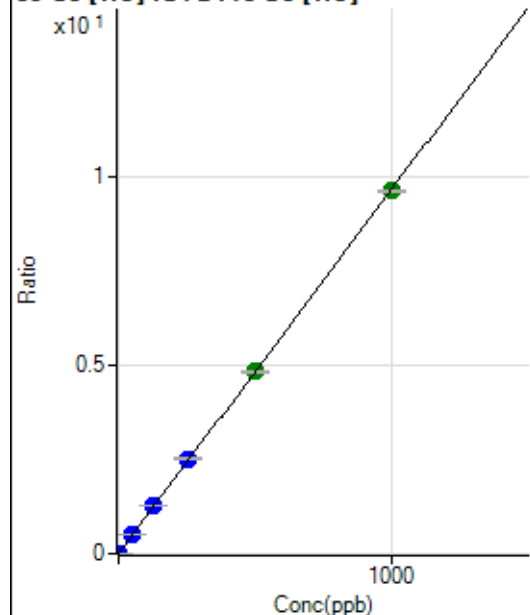
$$DL = 2.993$$

$$BEC = 10.58$$

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	74.44	0.0002	P	37.0
2	☐	1.000	0.979	3640.48	0.0097	P	2.9
3	☐	50.000	52.907	193963.13	0.5119	P	0.5
4	☐	125.000	131.907	476374.29	1.2760	P	0.8
5	☐	250.000	261.296	937346.48	2.5274	P	0.5
6	☐	500.000	499.714	1785286.17	4.8333	A	1.7
7	☐	1000.000	996.310	3620188.28	9.6362	A	0.5
8	☐			4545.17	0.0117	P	2.8

$$y = 0.0097 * x + 1.9585\text{E-}004$$

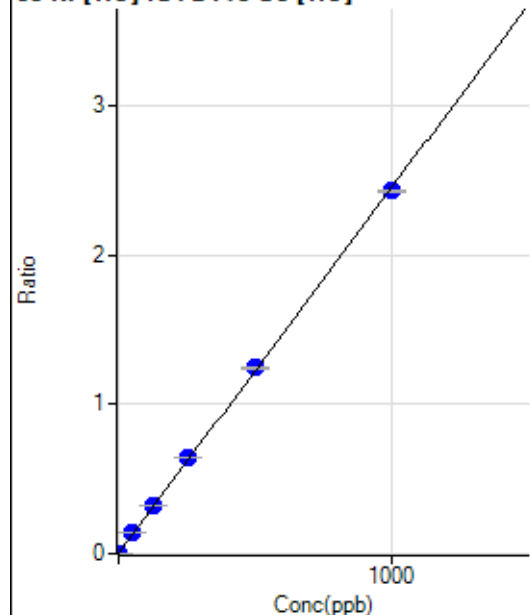
$$R = 0.9999$$

$$DL = 0.02249$$

$$BEC = 0.02025$$

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	692.24	0.0018	P	4.0
2	☐	1.000	0.640	1275.63	0.0034	P	0.5
3	☐	50.000	55.291	52060.02	0.1374	P	0.4
4	☐	125.000	132.665	122128.78	0.3271	P	0.6
5	☐	250.000	262.007	238947.16	0.6443	P	0.4
6	☐	500.000	508.362	461115.03	1.2483	P	0.7
7	☐	1000.000	991.595	914130.33	2.4332	P	0.3
8	☐			3532.67	0.0091	P	1.9

$$y = 0.0025 * x + 0.0018$$

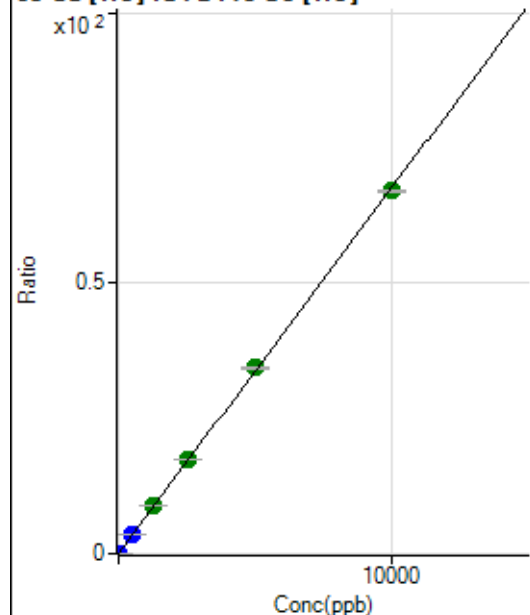
$$R = 0.9999$$

$$DL = 0.089$$

$$BEC = 0.7413$$

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	8035.56	0.0211	P	3.8
2	☐	2.000	-0.461	6777.14	0.0180	P	3.9
3	☐	500.000	536.288	1380256.19	3.6427	P	0.7
4	☐	1250.000	1321.399	3339565.16	8.9446	A	1.0
5	☐	2500.000	2592.152	6500127.61	17.5262	A	0.6
6	☐	5000.000	5085.030	12692320.92	34.3608	A	0.8
7	☐	10000.000	9923.708	25184707.40	67.0369	A	0.2
8	☐			7549.74	0.0194	P	2.5

$$y = 0.0068 * x + 0.0211$$

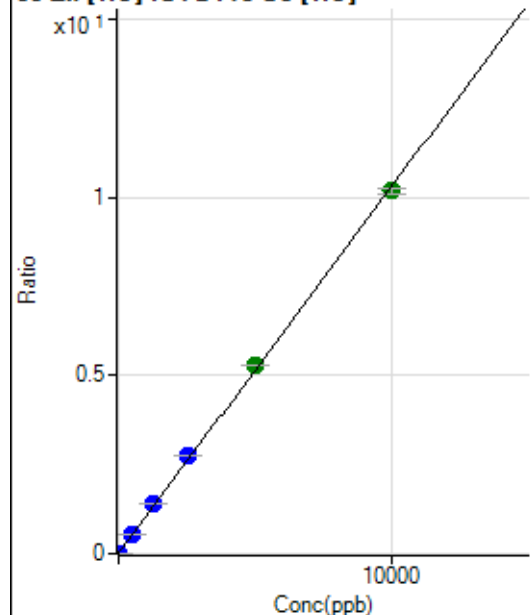
$$R = 0.9999$$

$$DL = 0.3533$$

$$BEC = 3.125$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	3242.60	0.0085	P	5.5
2	☐	2.000	-4.514	1457.86	0.0039	P	5.5
3	☐	500.000	538.700	213384.38	0.5632	P	0.9
4	☐	1250.000	1337.356	517266.82	1.3855	P	0.7
5	☐	2500.000	2660.294	1019007.35	2.7475	P	0.6
6	☐	5000.000	5123.717	1951802.09	5.2839	A	0.2
7	☐	10000.000	9885.215	3826760.22	10.1863	A	1.9
8	☐			4366.24	0.0112	P	1.1

$$y = 0.0010 * x + 0.0085$$

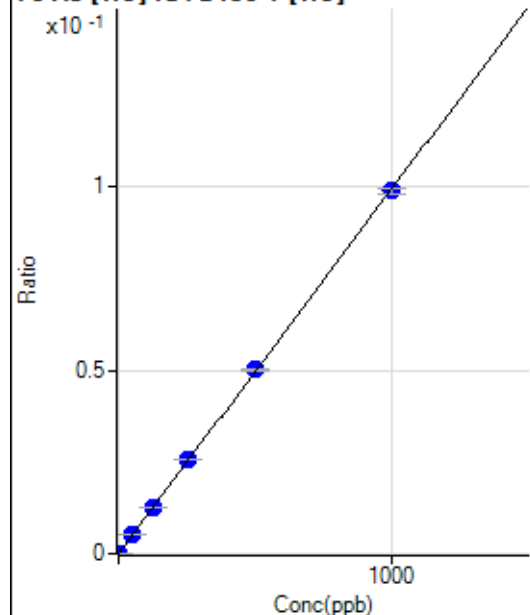
$$R = 0.9997$$

$$DL = 1.375$$

$$BEC = 8.274$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	3.09	0.0000	P	125.
2	☐	1.000	1.002	253.71	0.0001	P	8.7
3	☐	50.000	51.268	13079.85	0.0051	P	3.0
4	☐	125.000	128.281	32297.90	0.0127	P	0.9
5	☐	250.000	256.707	64263.15	0.0255	P	0.6
6	☐	500.000	504.821	125925.57	0.0501	P	1.2
7	☐	1000.000	995.439	253696.86	0.0988	P	1.3
8	☐			94.45	0.0000	P	11.6

$$y = 9.9286E-005 * x + 1.2138E-006$$

$$R = 1.0000$$

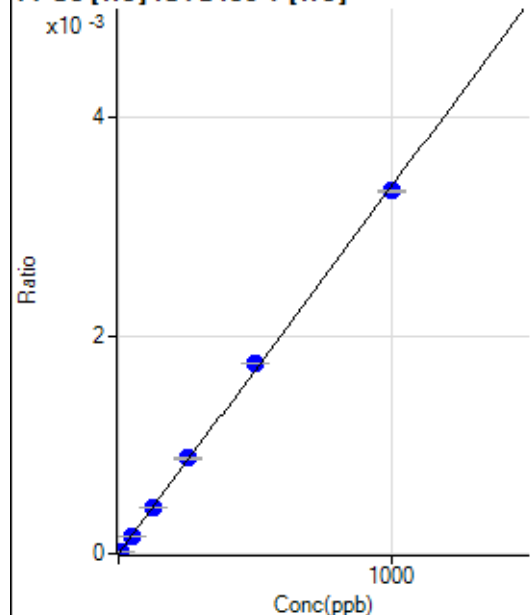
$$DL = 0.04591$$

$$BEC = 0.01223$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	5.908	50.00	0.0000	P	44.5
3	☐	50.000	47.637	412.23	0.0002	P	7.1
4	☐	125.000	127.392	1087.83	0.0004	P	0.5
5	☐	250.000	260.415	2211.30	0.0009	P	2.8
6	☐	500.000	518.107	4384.02	0.0017	P	0.6
7	☐	1000.000	988.157	8542.53	0.0033	P	0.7
8	☐			8.89	0.0000	P	57.8

$$y = 3.3675\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9997$$

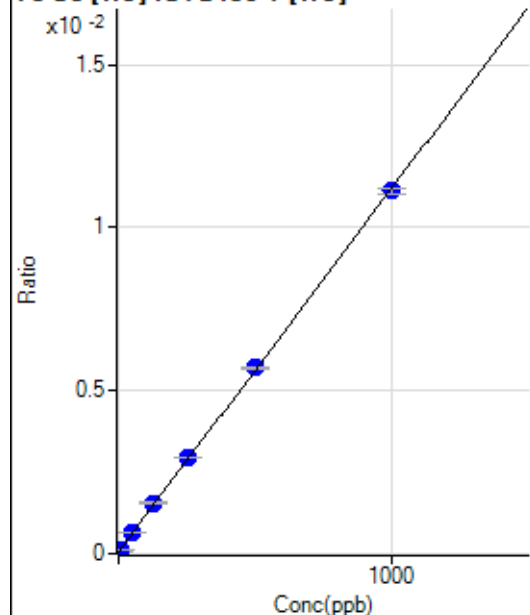
$$DL = 0$$

$$BEC = 0$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	158.64	0.0001	P	13.5
2	☐	5.000	4.868	293.83	0.0001	P	7.4
3	☐	50.000	52.550	1662.45	0.0006	P	4.8
4	☐	125.000	133.003	3910.42	0.0015	P	3.4
5	☐	250.000	257.301	7376.55	0.0029	P	0.3
6	☐	500.000	506.286	14310.63	0.0057	P	1.7
7	☐	1000.000	993.905	28549.65	0.0111	P	1.6
8	☐			172.84	0.0001	P	0.2

$$y = 1.1128\text{E-}005 * x + 6.2430\text{E-}005$$

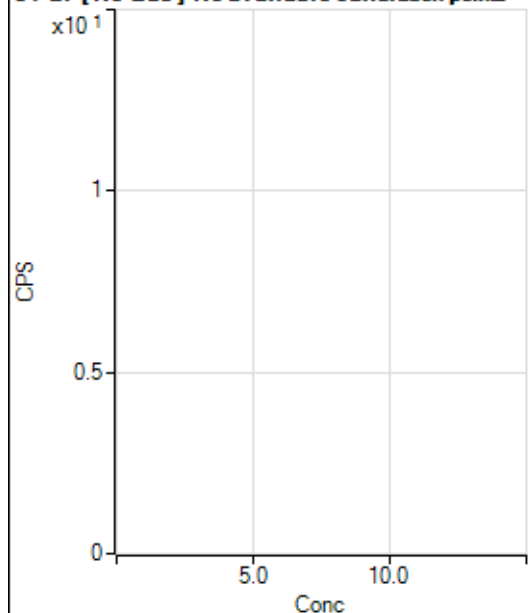
$$R = 0.9999$$

$$DL = 2.265$$

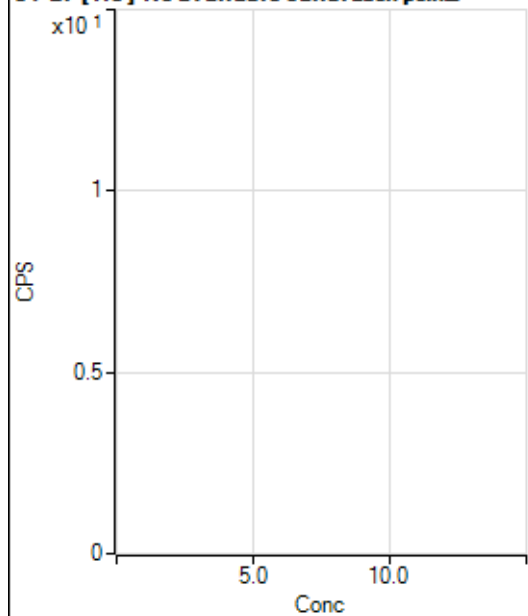
$$BEC = 5.61$$

Weight: <None>

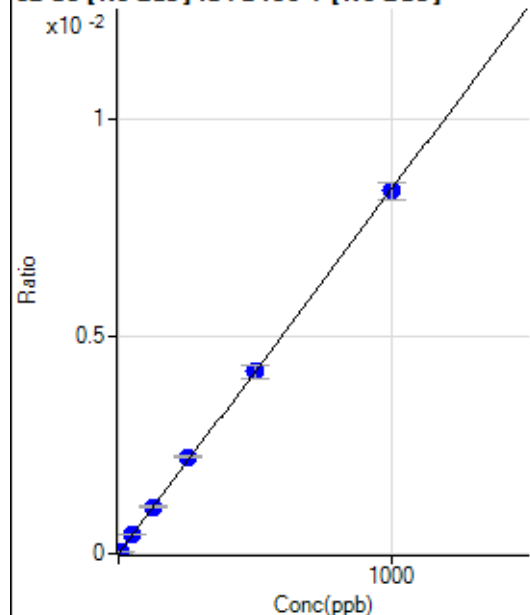
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			21613.54		P	0.8
2	☐			22451.01		P	1.9
3	☐			22047.54		P	2.2
4	☐			21560.71		P	0.4
5	☐			20851.38		P	0.1
6	☐			21310.24		P	2.4
7	☐			21699.87		P	1.5
8	☐			22506.48		P	3.9

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			160.17		P	6.2
2	☐			163.51		P	7.1
3	☐			150.15		P	35.3
4	☐			206.88		P	15.6
5	☐			153.49		P	22.9
6	☐			190.20		P	19.0
7	☐			146.82		P	30.7
8	☐			173.52		P	20.3

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	11.93	0.0000	P	241.
2	☐	5.000	5.359	579.20	0.0000	P	7.5
3	☐	50.000	53.234	5912.14	0.0004	P	3.1
4	☐	125.000	129.017	14459.84	0.0011	P	7.6
5	☐	250.000	265.578	28911.66	0.0022	P	2.2
6	☐	500.000	499.494	55791.13	0.0042	P	7.0
7	☐	1000.000	995.693	111249.28	0.0083	P	4.7
8	☐			187.75	0.0000	P	12.5

$$y = 8.3848\text{E-}006 * x + 9.0557\text{E-}007$$

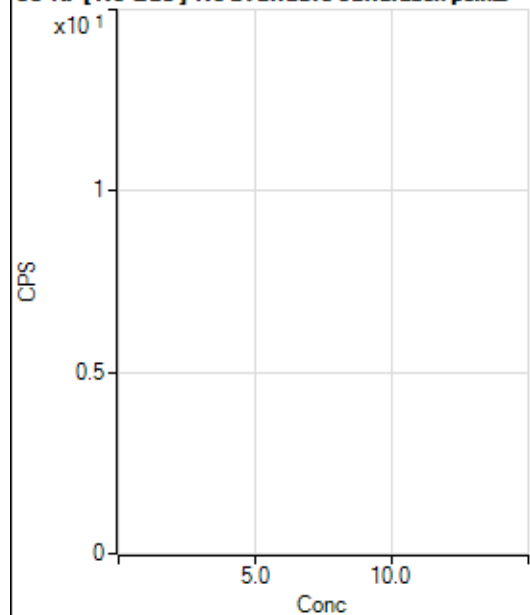
$$R = 0.9999$$

$$DL = 0.7815$$

$$BEC = 0.108$$

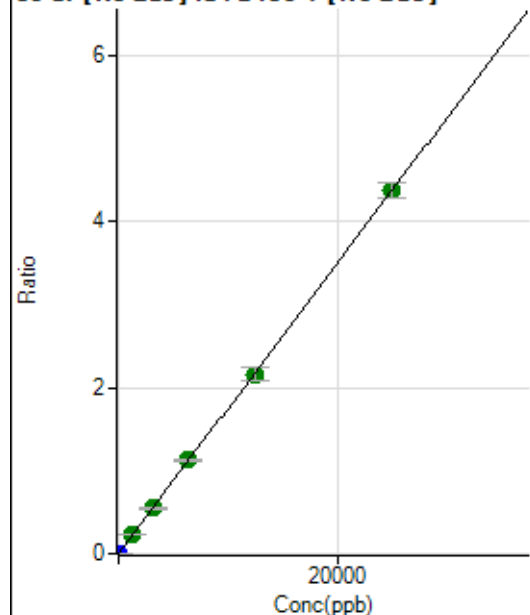
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			288.89		P	1.3
2	☐			264.45		P	15.6
3	☐			301.12		P	7.5
4	☐			268.89		P	13.7
5	☐			280.01		P	8.6
6	☐			321.12		P	4.8
7	☐			291.12		P	14.5
8	☐			326.67		P	3.1

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	488.91	0.0000	P	5.4
2	☐	1.000	1.043	2769.77	0.0002	P	2.3
3	☐	1250.000	1287.260	2969190.30	0.2246	A	4.1
4	☐	3125.000	3135.357	7307489.66	0.5470	A	6.8
5	☐	6250.000	6472.885	14656777.06	1.1293	A	2.6
6	☐	12500.000	12350.778	28695933.97	2.1548	A	7.3
7	☐	25000.000	25015.732	58156020.74	4.3644	A	4.1
8	☐			22001.33	0.0017	P	3.0

$$y = 1.7447\text{E-}004 * x + 3.7107\text{E-}005$$

R = 0.9999

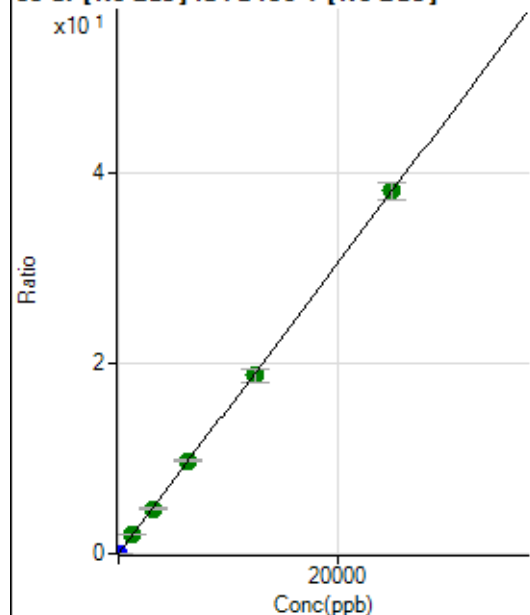
DL = 0.03466

BEC = 0.2127

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	608.36	0.0000	P	5.5
2	☐	1.000	0.988	19552.33	0.0015	P	0.8
3	☐	1250.000	1286.567	25818285.47	1.9531	A	3.3
4	☐	3125.000	3110.453	63076284.05	4.7219	A	6.7
5	☐	6250.000	6418.336	126449612.5	9.7435	A	1.1
6	☐	12500.000	12289.440	248495644.4	18.6563	A	6.7
7	☐	25000.000	25063.186	506963733.5	38.0477	A	4.7
8	☐			185888.50	0.0143	P	2.3

$$y = 0.0015 * x + 4.6175\text{E-}005$$

R = 0.9999

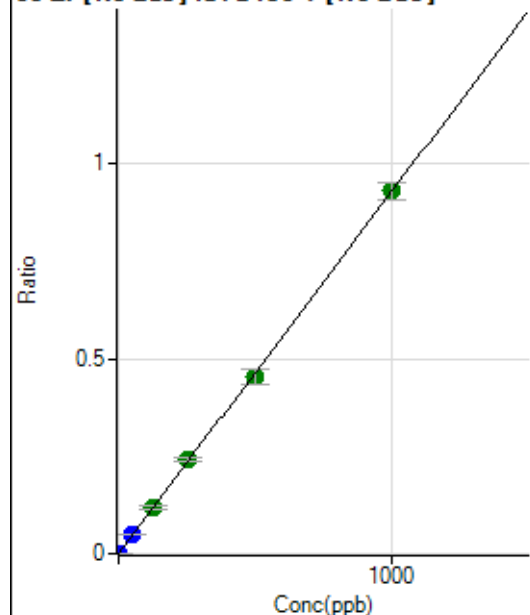
DL = 0.005005

BEC = 0.03042

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	475.02	0.0000	P	20.8
2	☐	1.000	0.958	11702.16	0.0009	P	0.9
3	☐	50.000	53.508	656923.03	0.0497	P	3.3
4	☐	125.000	125.723	1558971.04	0.1167	A	7.5
5	☐	250.000	259.374	3124855.06	0.2408	A	3.0
6	☐	500.000	489.088	6044147.84	0.4540	A	8.4
7	☐	1000.000	1002.847	12402239.34	0.9308	A	4.7
8	☐			4462.00	0.0003	P	8.3

$$y = 9.2815E-004 * x + 3.6145E-005$$

$$R = 0.9999$$

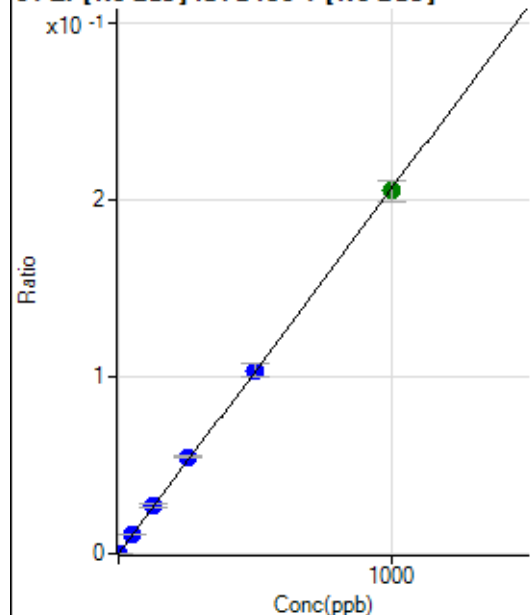
$$DL = 0.02434$$

$$BEC = 0.03894$$

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	94.45	0.0000	P	43.2
2	☐	1.000	0.993	2678.10	0.0002	P	2.8
3	☐	50.000	53.173	144984.41	0.0110	P	2.6
4	☐	125.000	129.511	356617.62	0.0267	P	7.8
5	☐	250.000	265.811	711198.43	0.0548	P	2.1
6	☐	500.000	501.815	1377611.77	0.1034	P	7.4
7	☐	1000.000	994.417	2730950.78	0.2050	A	5.6
8	☐			916.71	0.0001	P	8.6

$$y = 2.0613E-004 * x + 7.1452E-006$$

$$R = 0.9999$$

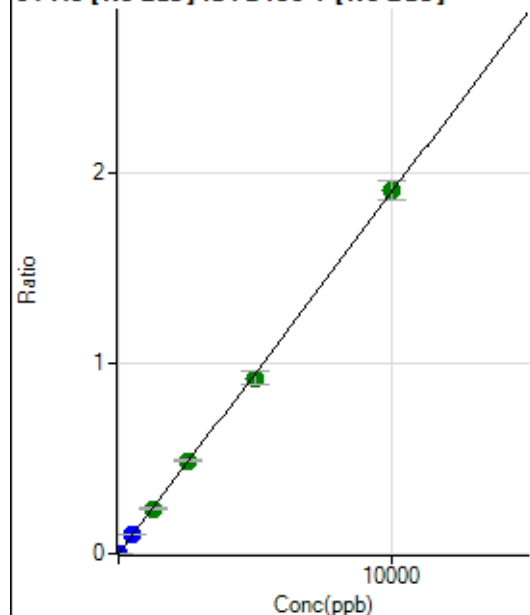
$$DL = 0.04496$$

$$BEC = 0.03466$$

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	194.45	0.0000	P	33.2
2	☐	5.000	5.698	13867.98	0.0011	P	3.2
3	☐	500.000	537.194	1348441.34	0.1020	P	3.5
4	☐	1250.000	1247.249	3163545.08	0.2368	A	6.9
5	☐	2500.000	2580.087	6358075.23	0.4899	A	1.4
6	☐	5000.000	4867.146	12307176.32	0.9242	A	7.4
7	☐	10000.000	10044.889	25410292.06	1.9073	A	5.4
8	☐			9514.53	0.0007	P	7.2

$$y = 1.8988\text{E-}004 * x + 1.4725\text{E-}005$$

$$R = 0.9998$$

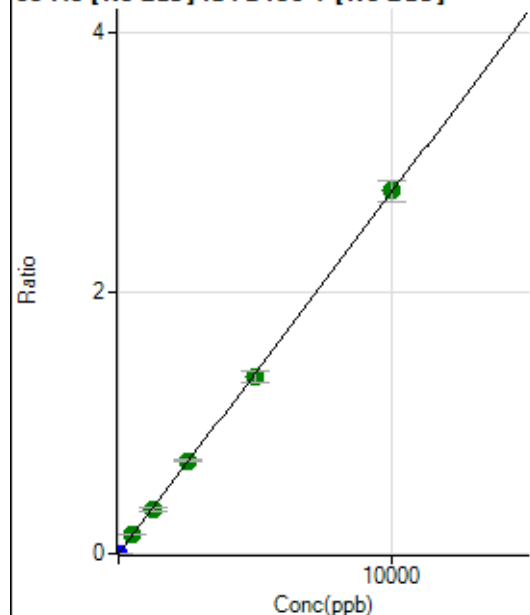
$$DL = 0.07734$$

$$BEC = 0.07755$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	16.67	0.0000	P	1.5
2	☐	5.000	4.699	16487.44	0.0013	P	1.3
3	☐	500.000	514.371	1885470.85	0.1426	A	2.3
4	☐	1250.000	1239.930	4592363.38	0.3438	A	7.1
5	☐	2500.000	2561.114	9216520.69	0.7102	A	1.9
6	☐	5000.000	4888.770	18054373.84	1.3556	A	7.0
7	☐	10000.000	10040.877	37091161.94	2.7842	A	5.8
8	☐			12934.06	0.0010	P	8.6

$$y = 2.7728\text{E-}004 * x + 1.2660\text{E-}006$$

$$R = 0.9999$$

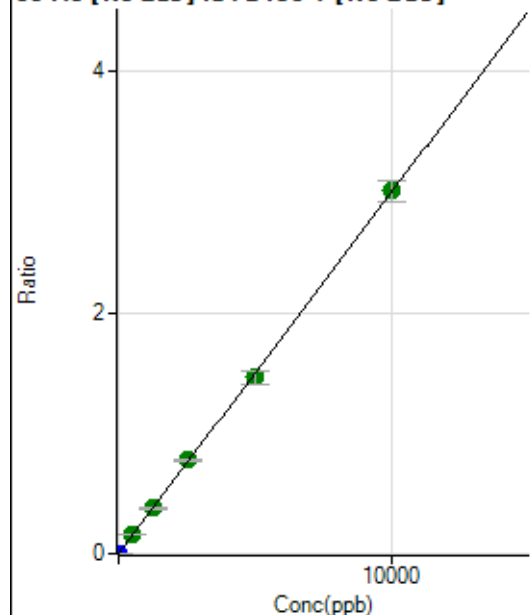
$$DL = 0.0002021$$

$$BEC = 0.004566$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	88.89	0.0000	P	36.0
2	☐	5.000	4.789	18250.70	0.0014	P	2.1
3	☐	500.000	515.348	2043776.89	0.1546	A	2.4
4	☐	1250.000	1250.750	5011786.44	0.3752	A	6.8
5	☐	2500.000	2585.258	10064751.53	0.7755	A	2.3
6	☐	5000.000	4883.956	19507171.79	1.4651	A	7.9
7	☐	10000.000	10035.846	40105433.54	3.0105	A	5.8
8	☐			23071.63	0.0018	P	5.1

$$y = 2.9997E-004 * x + 6.7567E-006$$

$$R = 0.9999$$

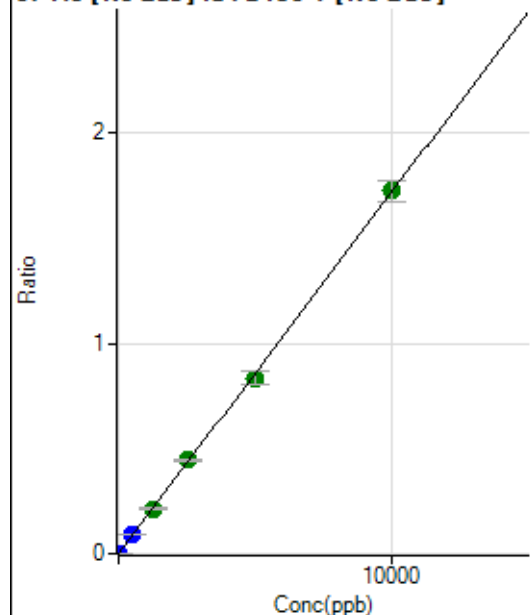
$$DL = 0.02433$$

$$BEC = 0.02252$$

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	13.89	0.0000	P	123.
2	☐	5.000	4.775	10378.96	0.0008	P	4.9
3	☐	500.000	533.434	1211372.60	0.0916	P	3.1
4	☐	1250.000	1249.190	2866217.01	0.2146	A	7.4
5	☐	2500.000	2586.350	5766290.88	0.4443	A	1.3
6	☐	5000.000	4869.312	11136472.30	0.8365	A	8.4
7	☐	10000.000	10042.186	22983447.04	1.7252	A	5.5
8	☐			8305.37	0.0006	P	9.8

$$y = 1.7179E-004 * x + 1.0427E-006$$

$$R = 0.9998$$

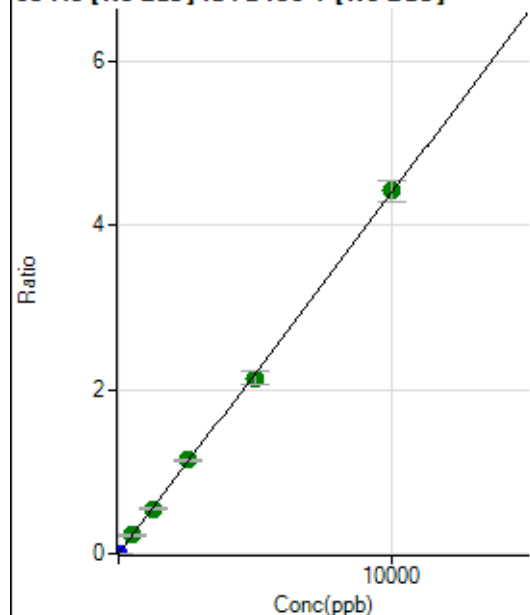
$$DL = 0.02257$$

$$BEC = 0.00607$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	41.67	0.0000	P	69.0
2	☐	5.000	4.749	26435.51	0.0021	P	2.3
3	☐	500.000	513.479	2984746.07	0.2258	A	3.5
4	☐	1250.000	1242.213	7295712.57	0.5462	A	7.0
5	☐	2500.000	2588.019	14768213.87	1.1379	A	1.6
6	☐	5000.000	4853.912	28417418.00	2.1342	A	7.9
7	☐	10000.000	10051.339	58878290.90	4.4195	A	5.6
8	☐			19897.51	0.0015	P	9.6

$$y = 4.3969\text{E-}004 * x + 3.1509\text{E-}006$$

$$R = 0.9998$$

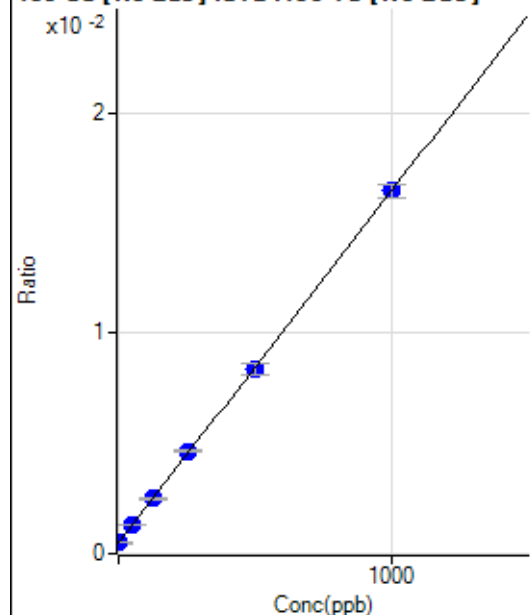
$$DL = 0.01484$$

$$BEC = 0.007166$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5256.64	0.0005	P	8.2
2	☐	1.000	0.915	5256.64	0.0005	P	1.6
3	☐	50.000	51.436	14385.32	0.0013	P	3.6
4	☐	125.000	125.644	28139.01	0.0025	P	5.6
5	☐	250.000	261.507	51176.93	0.0047	P	2.3
6	☐	500.000	494.038	93901.10	0.0084	P	5.7
7	☐	1000.000	999.952	184471.26	0.0165	P	3.9
8	☐			5026.01	0.0005	P	2.4

$$y = 1.5989\text{E-}005 * x + 4.8890\text{E-}004$$

$$R = 0.9999$$

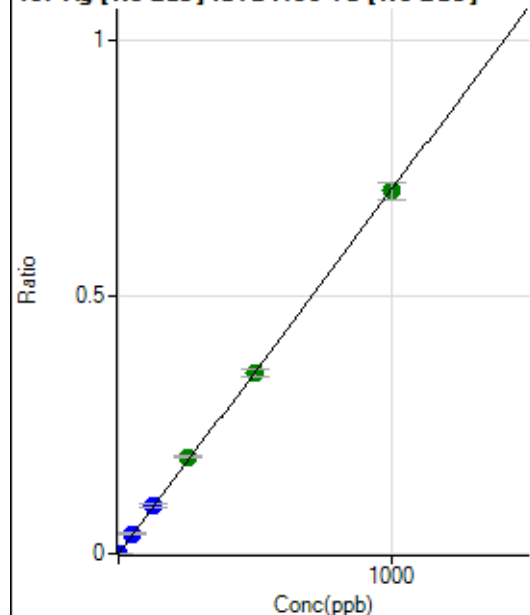
$$DL = 7.535$$

$$BEC = 30.58$$

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	69.44	0.0000	P	13.5
2	☐	1.000	1.063	7916.25	0.0008	P	1.8
3	☐	50.000	54.722	424829.18	0.0387	P	4.6
4	☐	125.000	130.743	1042114.14	0.0925	P	6.5
5	☐	250.000	266.410	2066010.64	0.1885	A	2.8
6	☐	500.000	496.296	3932111.42	0.3512	A	5.1
7	☐	1000.000	996.795	7896389.33	0.7054	A	4.9
8	☐			4292.40	0.0004	P	2.5

$$y = 7.0764\text{E-}004 * x + 6.4587\text{E-}006$$

$$R = 0.9998$$

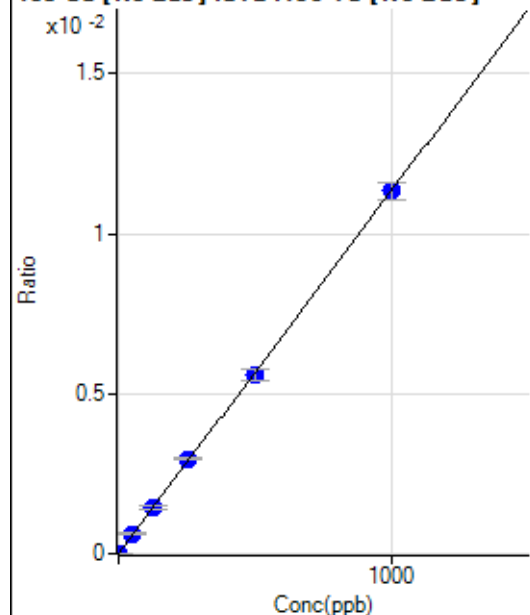
$$DL = 0.003684$$

$$BEC = 0.009127$$

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	18.06	0.0000	P	51.6
2	☐	1.000	0.965	131.95	0.0000	P	17.6
3	☐	50.000	55.001	6858.65	0.0006	P	5.9
4	☐	125.000	128.046	16369.11	0.0015	P	8.0
5	☐	250.000	261.093	32465.56	0.0030	P	1.7
6	☐	500.000	494.670	62811.53	0.0056	P	6.3
7	☐	1000.000	999.261	126876.78	0.0113	P	4.9
8	☐			94.45	0.0000	P	18.3

$$y = 1.1341\text{E-}005 * x + 1.6709\text{E-}006$$

$$R = 0.9999$$

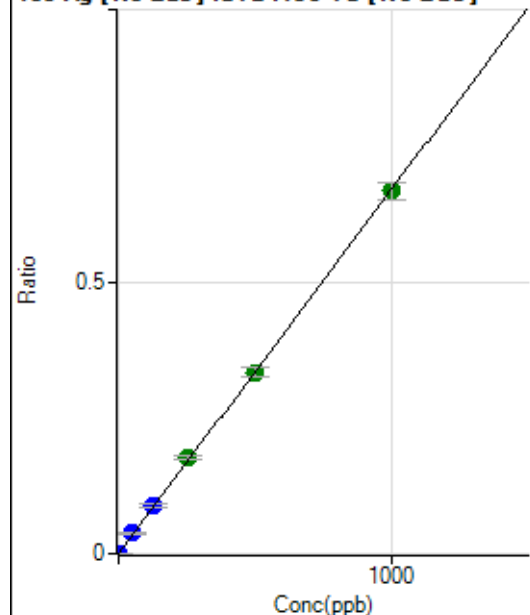
$$DL = 0.2279$$

$$BEC = 0.1473$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	22.22	0.0000	P	79.0
2	☐	1.000	1.067	7479.88	0.0007	P	4.5
3	☐	50.000	55.517	408029.09	0.0372	P	4.3
4	☐	125.000	131.275	990519.92	0.0880	P	6.8
5	☐	250.000	263.762	1936435.24	0.1767	A	2.8
6	☐	500.000	498.895	3741641.01	0.3342	A	5.9
7	☐	1000.000	996.052	7470675.60	0.6673	A	4.4
8	☐			4039.55	0.0004	P	6.5

$$y = 6.6996\text{E-}004 * x + 2.0816\text{E-}006$$

$$R = 0.9999$$

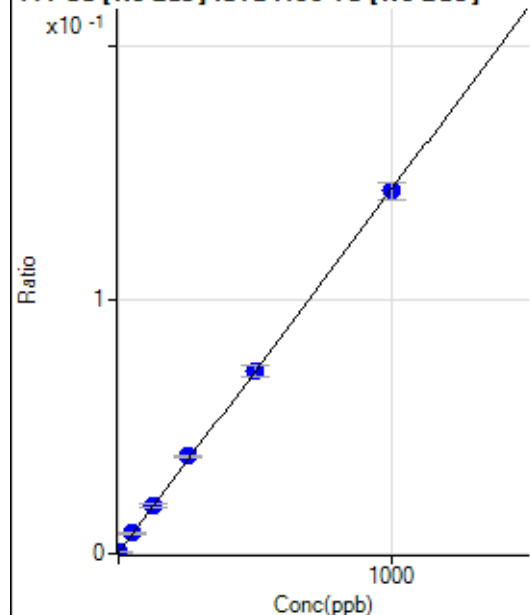
$$DL = 0.007361$$

$$BEC = 0.003107$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	3679.51	0.0003	P	8.2
2	☐	1.000	1.089	5202.68	0.0005	P	2.3
3	☐	50.000	53.922	88566.06	0.0081	P	5.3
4	☐	125.000	129.784	213425.03	0.0190	P	7.6
5	☐	250.000	265.951	421696.72	0.0385	P	2.3
6	☐	500.000	498.662	804278.01	0.0719	P	6.3
7	☐	1000.000	995.887	1602578.88	0.1432	P	5.0
8	☐			4189.63	0.0004	P	3.1

$$y = 1.4341\text{E-}004 * x + 3.4222\text{E-}004$$

$$R = 0.9999$$

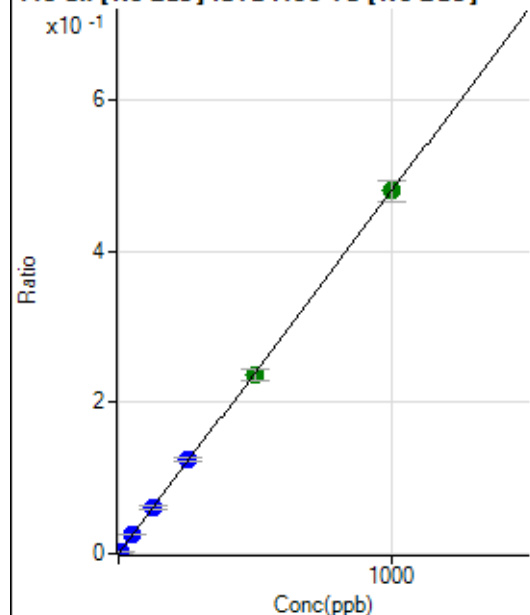
$$DL = 0.5889$$

$$BEC = 2.386$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	847.27	0.0001	P	11.7
2	☐	5.000	5.187	26758.85	0.0026	P	2.0
3	☐	50.000	53.444	281658.62	0.0257	P	4.5
4	☐	125.000	126.835	684924.70	0.0608	P	7.7
5	☐	250.000	260.577	1368634.48	0.1249	P	2.8
6	☐	500.000	493.007	2643626.60	0.2362	A	7.2
7	☐	1000.000	1000.450	5364752.16	0.4793	A	5.7
8	☐			7997.04	0.0007	P	9.1

$$y = 4.7897\text{E-}004 * x + 7.8757\text{E-}005$$

$$R = 0.9999$$

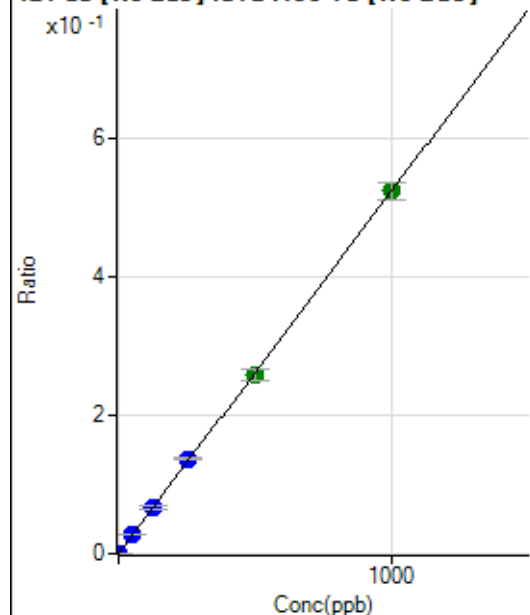
$$DL = 0.05755$$

$$BEC = 0.1644$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	44.44	0.0000	P	40.2
2	☐	2.000	2.054	11274.14	0.0011	P	3.0
3	☐	50.000	52.521	301909.80	0.0275	P	4.8
4	☐	125.000	126.024	743593.99	0.0660	P	7.6
5	☐	250.000	262.201	1505641.48	0.1374	P	2.2
6	☐	500.000	492.328	2887317.51	0.2580	A	6.8
7	☐	1000.000	1000.532	5868813.93	0.5243	A	5.1
8	☐			4992.64	0.0005	P	1.6

$$y = 5.2398\text{E-}004 * x + 4.1526\text{E-}006$$

$$R = 0.9999$$

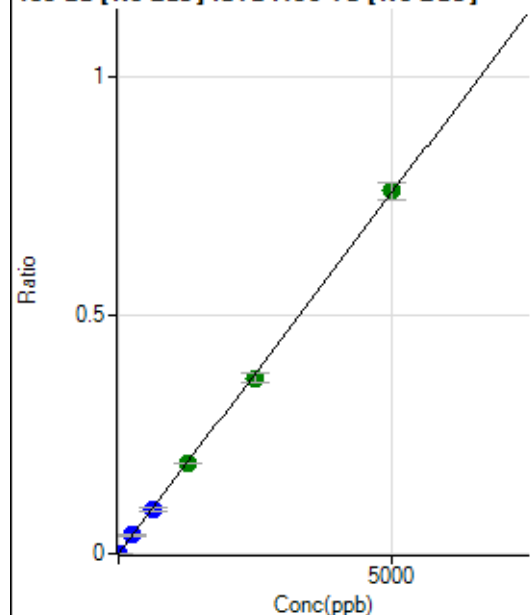
$$DL = 0.009547$$

$$BEC = 0.007925$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	100.00	0.0000	P	28.5
2	☐	10.000	9.466	15013.81	0.0014	P	4.1
3	☐	250.000	256.647	424955.26	0.0387	P	4.4
4	☐	625.000	615.669	1046236.41	0.0929	P	7.8
5	☐	1250.000	1255.633	2076659.46	0.1895	A	1.1
6	☐	2500.000	2435.154	4113920.62	0.3675	A	6.0
7	☐	5000.000	5031.850	8500917.81	0.7594	A	4.9
8	☐			5387.27	0.0005	P	3.5

$$y = 1.5091\text{E-}004 * x + 9.2792\text{E-}006$$

$$R = 0.9999$$

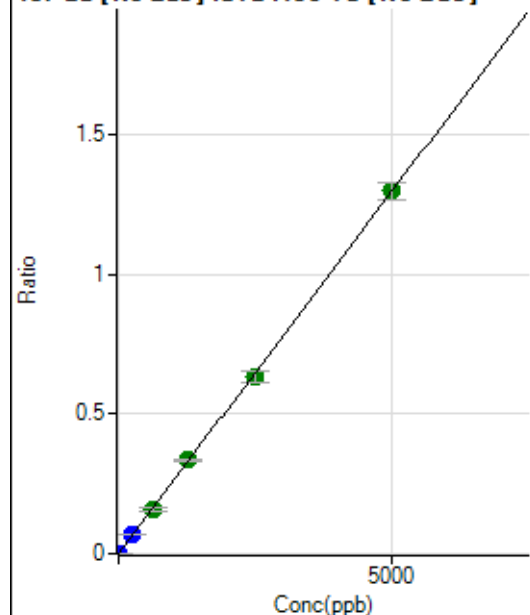
$$DL = 0.05251$$

$$BEC = 0.06149$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	177.78	0.0000	P	30.0
2	☐	10.000	9.556	26024.43	0.0025	P	0.7
3	☐	250.000	259.081	736805.19	0.0672	P	3.9
4	☐	625.000	613.115	1789139.19	0.1589	A	8.3
5	☐	1250.000	1289.356	3662186.06	0.3342	A	0.8
6	☐	2500.000	2452.355	7114570.12	0.6356	A	6.3
7	☐	5000.000	5015.016	14551095.81	1.2998	A	4.5
8	☐			8916.93	0.0008	P	5.2

$$y = 2.5918\text{E-}004 * x + 1.6498\text{E-}005$$

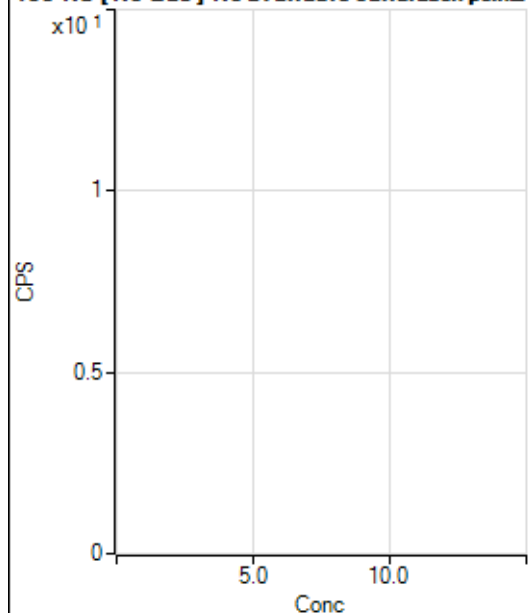
$$R = 0.9999$$

$$DL = 0.05732$$

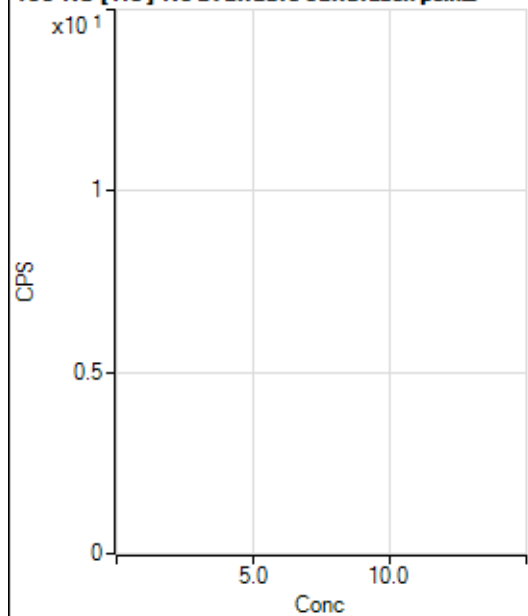
$$BEC = 0.06365$$

Weight: <None>

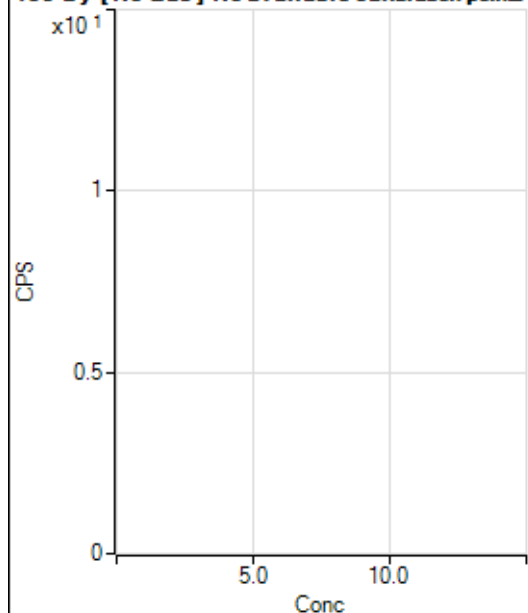
Min Conc: 0

150 Nd [No Gas] No available calibration points

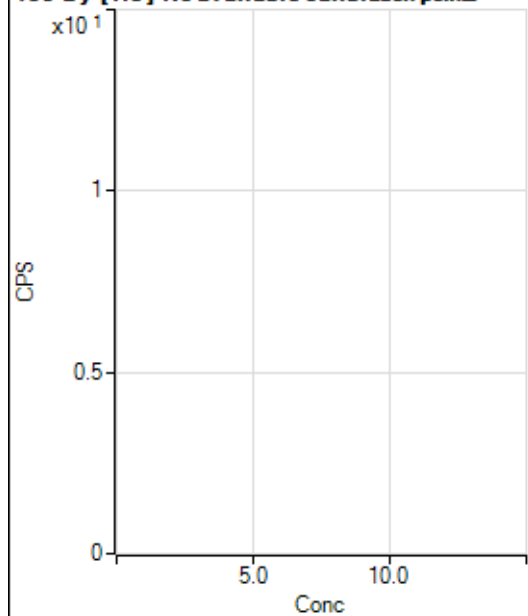
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			15.56		P	89.2
2	☐			2.22		P	173.
3	☐			62.22		P	24.7
4	☐			115.56		P	34.8
5	☐			320.01		P	11.0
6	☐			491.13		P	20.6
7	☐			1017.84		P	7.1
8	☐			80.00		P	22.1

150 Nd [He] No available calibration points

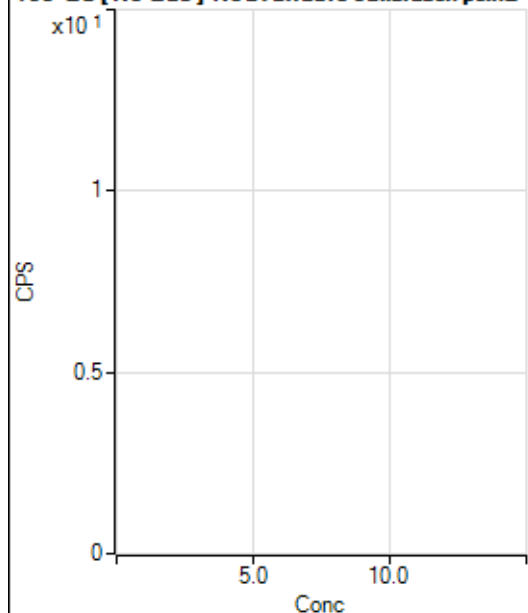
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	86.6
2	☐			2.22		P	173.
3	☐			12.22		P	56.8
4	☐			26.67		P	21.7
5	☐			50.00		P	24.0
6	☐			103.33		P	11.6
7	☐			170.01		P	9.0
8	☐			24.44		P	31.5

156 Dy [No Gas] No available calibration points

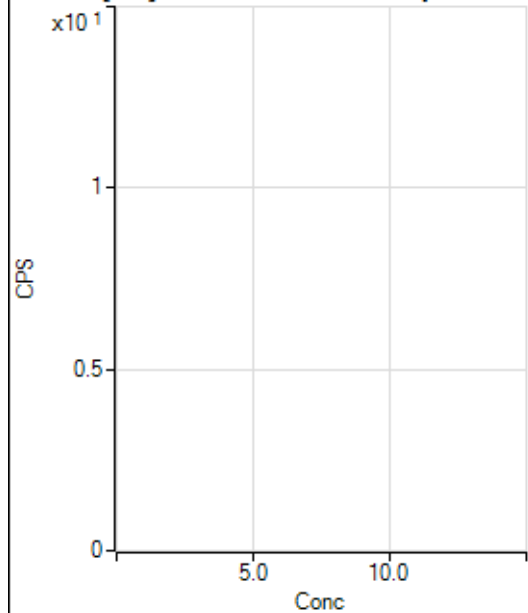
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			33.33		P	66.1
2	☐			30.55		P	68.6
3	☐			44.45		P	10.8
4	☐			75.00		P	11.1
5	☐			133.34		P	6.3
6	☐			194.45		P	27.9
7	☐			533.36		P	16.5
8	☐			1466.78		P	4.0

156 Dy [He] No available calibration points

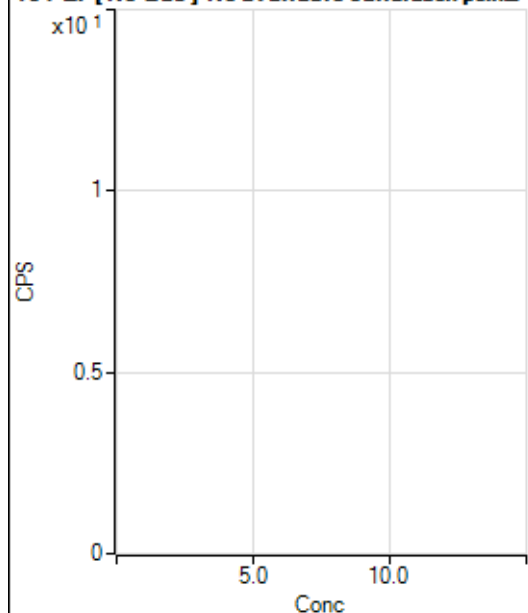
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6.67		P	100.
2	☐			5.56		P	34.7
3	☐			24.45		P	15.8
4	☐			74.44		P	18.6
5	☐			106.67		P	8.3
6	☐			222.23		P	4.6
7	☐			408.90		P	20.0
8	☐			817.81		P	3.1

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

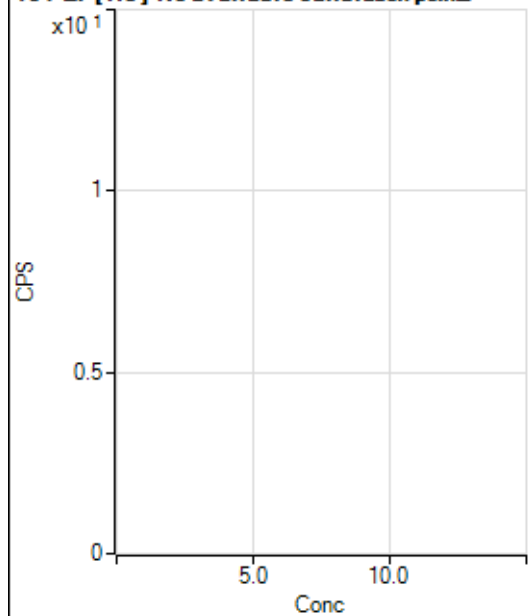
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			52.78		P	36.5
2	☐			38.89		P	12.4
3	☐			66.67		P	21.7
4	☐			113.89		P	11.2
5	☐			97.23		P	27.6
6	☐			158.34		P	22.9
7	☐			277.79		P	36.3
8	☐			1536.24		P	9.8

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			336.68		P	18.3
2	☐			265.56		P	11.4
3	☐			347.79		P	9.5
4	☐			296.68		P	11.8
5	☐			334.45		P	4.5
6	☐			405.56		P	15.1
7	☐			455.57		P	0.4
8	☐			1215.62		P	4.5

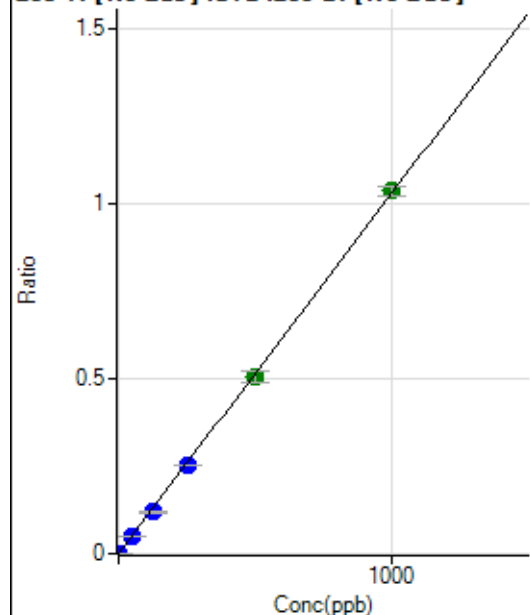
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			41.67		P	0.0
2	☐			41.67		P	40.0
3	☐			44.45		P	10.8
4	☐			69.45		P	18.3
5	☐			111.12		P	4.3
6	☐			94.45		P	31.0
7	☐			191.67		P	35.6
8	☐			102.78		P	54.0

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			24.44		P	20.8
2	☐			26.67		P	25.0
3	☐			27.78		P	69.3
4	☐			30.00		P	44.4
5	☐			42.22		P	16.4
6	☐			67.78		P	22.2
7	☐			102.22		P	30.3
8	☐			43.33		P	7.7

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	166.67	0.0000	P	16.2
2	☐	1.000	0.900	6101.53	0.0010	P	2.8
3	☐	50.000	48.892	335550.92	0.0504	P	3.4
4	☐	125.000	116.732	828227.72	0.1203	P	5.2
5	☐	250.000	245.308	1675742.57	0.2528	P	0.8
6	☐	500.000	489.993	3397785.23	0.5050	A	6.4
7	☐	1000.000	1007.266	6817219.60	1.0380	A	2.8
8	☐			1686.27	0.0003	P	11.2

$$y = 0.0010 * x + 2.5178E-005$$

$$R = 0.9999$$

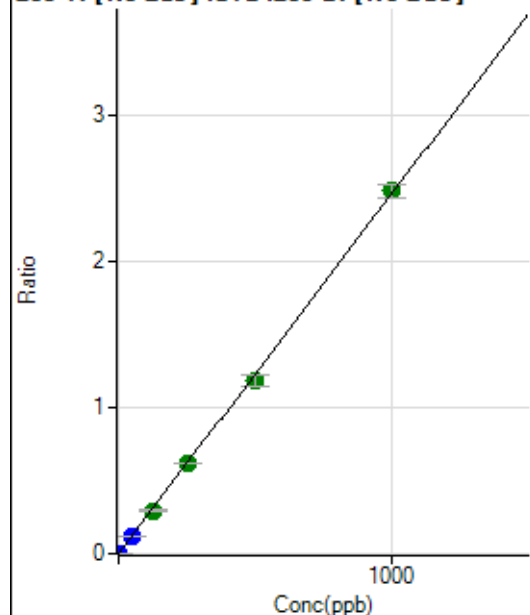
$$DL = 0.01191$$

$$BEC = 0.02443$$

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	266.68	0.0000	P	5.5
2	☐	1.000	0.909	14555.36	0.0023	P	4.4
3	☐	50.000	48.334	791970.59	0.1190	P	4.2
4	☐	125.000	120.066	2034160.64	0.2955	A	5.2
5	☐	250.000	252.167	4113370.36	0.6206	A	1.1
6	☐	500.000	482.822	7994836.98	1.1882	A	6.5
7	☐	1000.000	1008.747	16302043.07	2.4824	A	3.5
8	☐			3936.78	0.0007	P	11.4

$$y = 0.0025 * x + 4.0230E-005$$

$$R = 0.9998$$

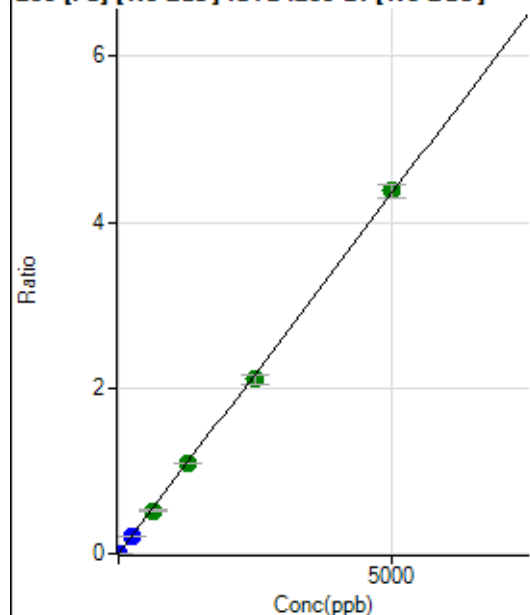
$$DL = 0.002701$$

$$BEC = 0.01635$$

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	703.73	0.0001	P	5.2
2	☐	1.000	0.817	5225.17	0.0008	P	1.6
3	☐	250.000	238.779	1381465.26	0.2075	P	3.6
4	☐	625.000	596.120	3565555.49	0.5180	A	5.1
5	☐	1250.000	1259.684	7254032.45	1.0944	A	0.5
6	☐	2500.000	2422.261	14160751.94	2.1044	A	6.1
7	☐	5000.000	5040.620	28757000.64	4.3790	A	3.4
8	☐			7887.63	0.0014	P	4.5

$$y = 8.6872\text{E-}004 * x + 1.0625\text{E-}004$$

$$R = 0.9998$$

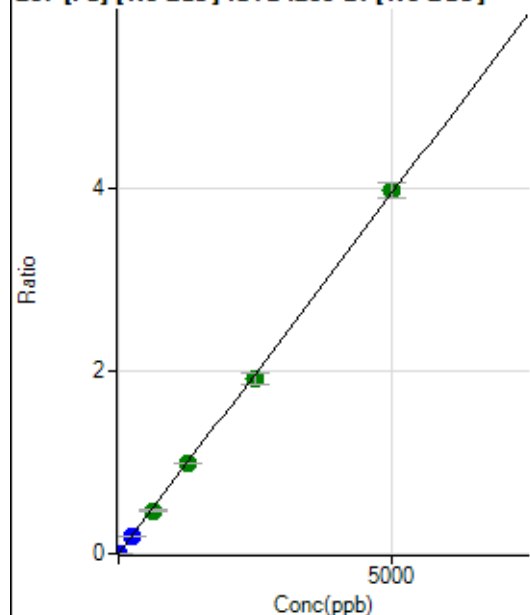
$$DL = 0.01898$$

$$BEC = 0.1223$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	555.58	0.0001	P	5.0
2	☐	1.000	0.815	4637.90	0.0007	P	3.0
3	☐	250.000	236.964	1240999.32	0.1864	P	3.2
4	☐	625.000	596.793	3230222.87	0.4694	A	6.7
5	☐	1250.000	1257.318	6554460.74	0.9888	A	1.6
6	☐	2500.000	2422.643	12819915.91	1.9052	A	6.4
7	☐	5000.000	5041.027	26030851.74	3.9643	A	4.2
8	☐			7079.74	0.0012	P	3.6

$$y = 7.8639\text{E-}004 * x + 8.3768\text{E-}005$$

$$R = 0.9998$$

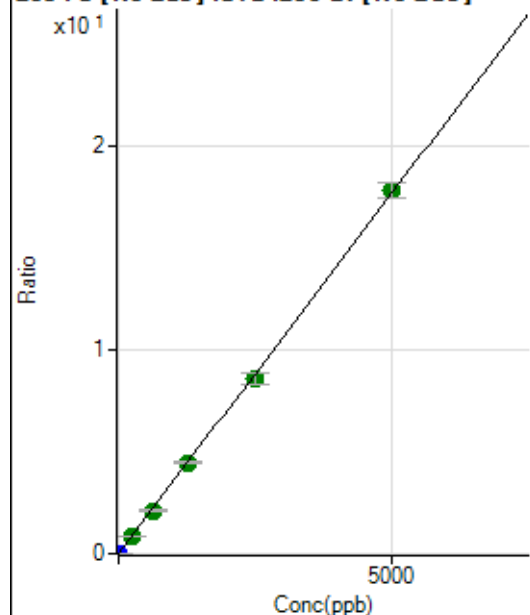
$$DL = 0.01604$$

$$BEC = 0.1065$$

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	2676.08	0.0004	P	0.8
2	☐	1.000	0.826	21232.83	0.0033	P	1.3
3	☐	250.000	243.191	5716589.70	0.8588	A	3.3
4	☐	625.000	598.408	14537586.46	2.1126	A	6.9
5	☐	1250.000	1262.039	29530061.25	4.4550	A	1.7
6	☐	2500.000	2421.889	57519500.48	8.5489	A	6.7
7	☐	5000.000	5039.710	116809503.3	17.7889	A	4.3
8	☐			31807.71	0.0054	P	5.2

$$y = 0.0035 * x + 4.0376E-004$$

$$R = 0.9998$$

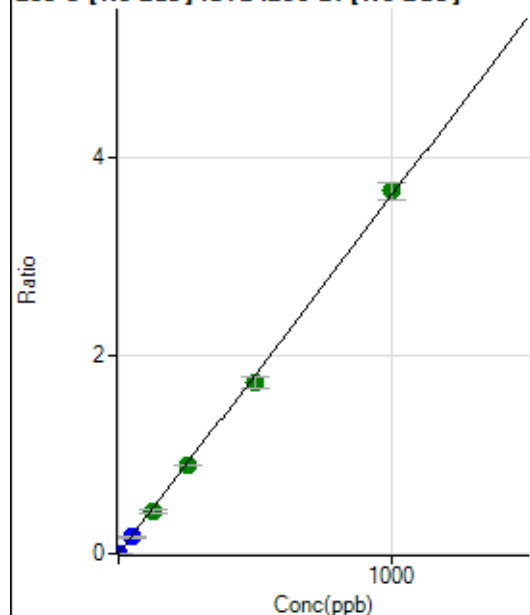
$$DL = 0.002765$$

$$BEC = 0.1144$$

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	61.11	0.0000	P	49.4
2	☐	1.000	0.866	20054.48	0.0031	P	1.3
3	☐	50.000	45.873	1101627.25	0.1655	P	3.9
4	☐	125.000	117.439	2915795.29	0.4237	A	6.5
5	☐	250.000	246.824	5902558.08	0.8905	A	1.8
6	☐	500.000	477.094	11579248.44	1.7212	A	7.2
7	☐	1000.000	1013.399	24007731.26	3.6560	A	4.5
8	☐			3681.18	0.0006	P	14.4

$$y = 0.0036 * x + 9.2562E-006$$

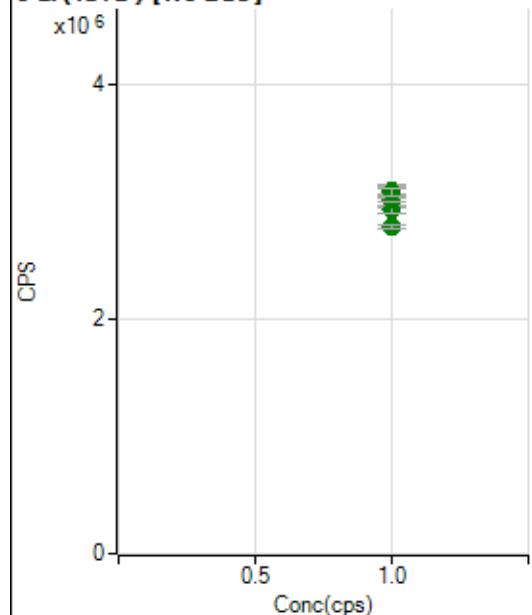
$$R = 0.9996$$

$$DL = 0.003803$$

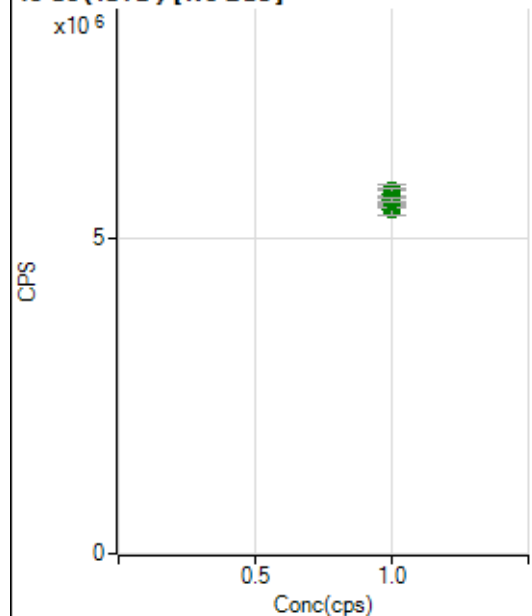
$$BEC = 0.002566$$

Weight: <None>

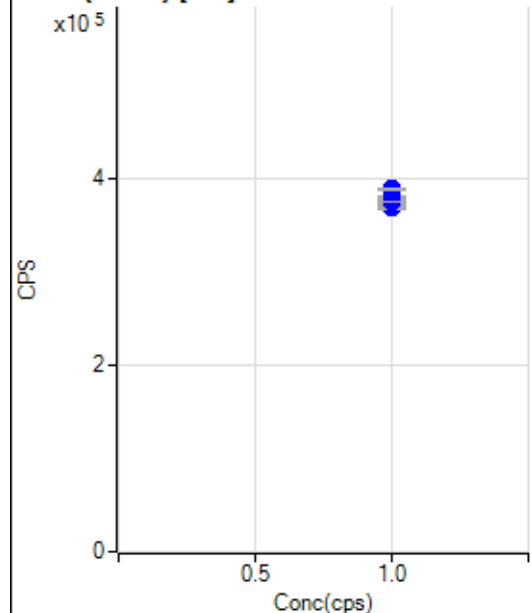
Min Conc: 0

6 Li (ISTD) [No Gas]

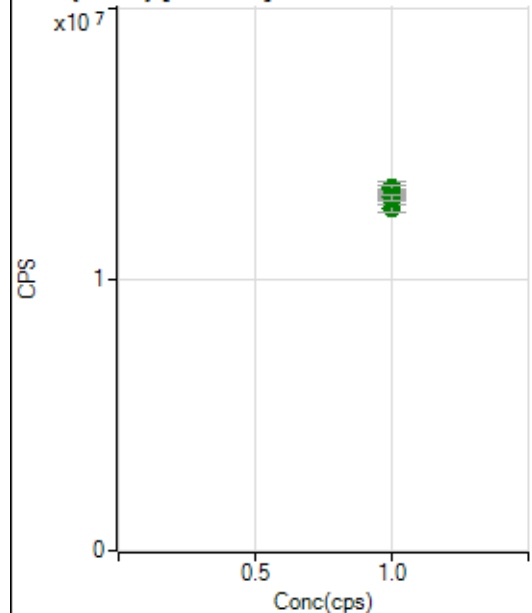
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2995880.79		A	2.9
2	☐	1.000		2936185.89		A	1.9
3	☐	1.000		3050757.87		A	1.1
4	☐	1.000		3091256.80		A	2.5
5	☐	1.000		3022919.36		A	1.9
6	☐	1.000		3087817.63		A	4.1
7	☐	1.000		3084539.12		A	2.0
8	☐	1.000		2789879.13		A	1.1

45 Sc (ISTD) [No Gas]

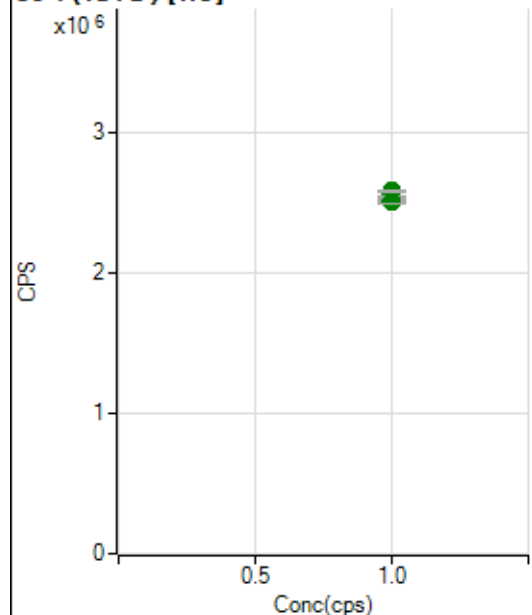
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5601764.71		A	2.2
2	☐	1.000		5437198.46		A	2.6
3	☐	1.000		5628965.96		A	0.4
4	☐	1.000		5737046.65		A	4.0
5	☐	1.000		5555602.70		A	0.3
6	☐	1.000		5608552.14		A	4.8
7	☐	1.000		5688632.90		A	2.6
8	☐	1.000		5596971.93		A	0.7

45 Sc (ISTD) [He]

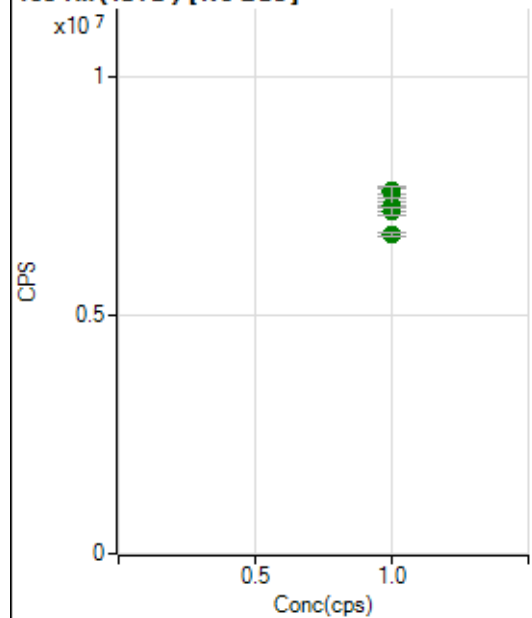
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		380774.99		P	0.9
2	☐	1.000		376568.28		P	0.6
3	☐	1.000		378919.20		P	0.6
4	☐	1.000		373350.99		P	0.4
5	☐	1.000		370879.90		P	0.3
6	☐	1.000		369390.89		P	0.5
7	☐	1.000		375685.10		P	0.2
8	☐	1.000		389667.34		P	0.4

89 Y (ISTD) [No Gas]

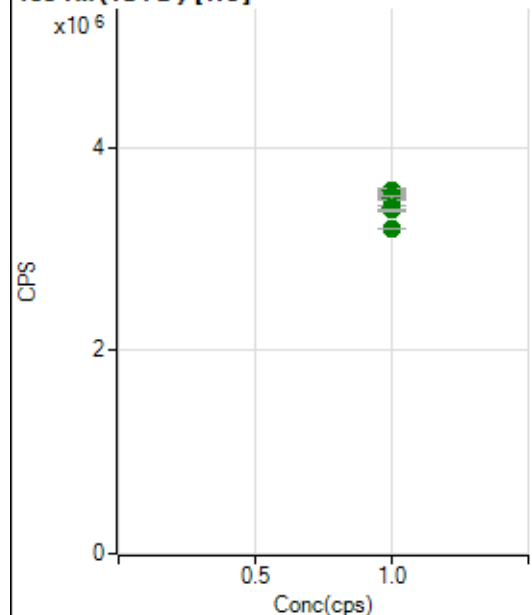
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		13168863.97		A	1.5
2	☐	1.000		12643782.17		A	2.0
3	☐	1.000		13221280.64		A	1.2
4	☐	1.000		13379610.91		A	3.6
5	☐	1.000		12977674.39		A	0.3
6	☐	1.000		13344903.97		A	4.3
7	☐	1.000		13332291.74		A	2.0
8	☐	1.000		13014185.22		A	1.6

89 Y (ISTD) [He]

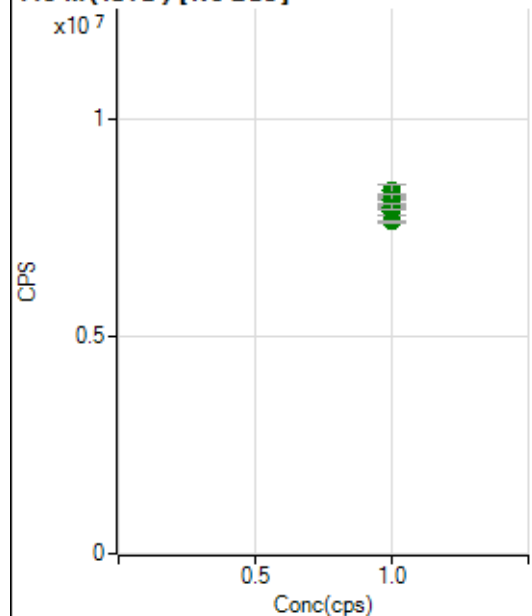
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2541829.53		A	0.5
2	☐	1.000		2519028.47		A	1.1
3	☐	1.000		2569868.99		A	1.9
4	☐	1.000		2535754.35		A	1.1
5	☐	1.000		2521299.91		A	0.6
6	☐	1.000		2512556.60		A	1.5
7	☐	1.000		2567141.11		A	1.2
8	☐	1.000		2585317.84		A	0.8

103 Rh (ISTD) [No Gas]

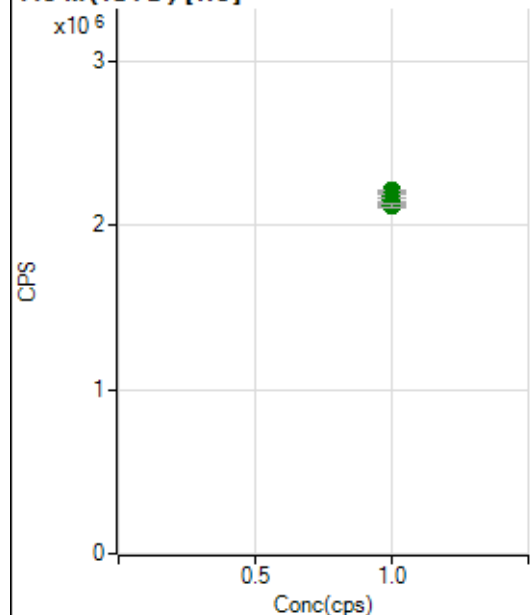
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7620612.25		A	1.3
2	☐	1.000		7288239.61		A	2.9
3	☐	1.000		7552444.06		A	0.5
4	☐	1.000		7590288.57		A	3.0
5	☐	1.000		7280829.89		A	0.7
6	☐	1.000		7326324.06		A	3.5
7	☐	1.000		7179156.63		A	2.4
8	☐	1.000		6700464.48		A	1.1

103 Rh (ISTD) [He]

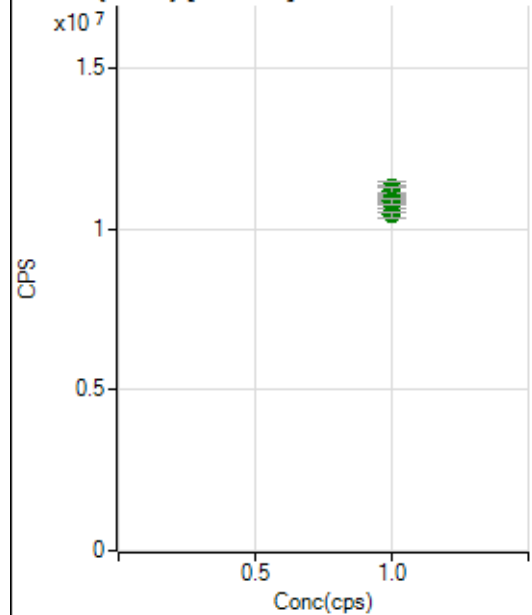
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3571986.51		A	0.3
2	☐	1.000		3551260.05		A	0.8
3	☐	1.000		3570571.20		A	1.5
4	☐	1.000		3516696.37		A	1.0
5	☐	1.000		3499508.04		A	1.3
6	☐	1.000		3410128.04		A	1.0
7	☐	1.000		3380049.98		A	0.5
8	☐	1.000		3199389.15		A	0.5

115 In (ISTD) [No Gas]

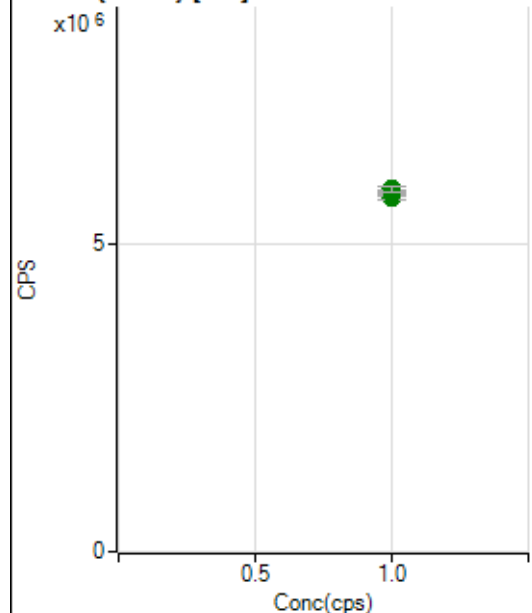
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8227274.04		A	1.2
2	☐	1.000		7842541.33		A	2.2
3	☐	1.000		8176783.98		A	0.9
4	☐	1.000		8333983.16		A	3.6
5	☐	1.000		7969275.17		A	0.8
6	☐	1.000		8111437.99		A	3.7
7	☐	1.000		7970715.53		A	1.5
8	☐	1.000		7620062.95		A	0.8

115 In (ISTD) [He]

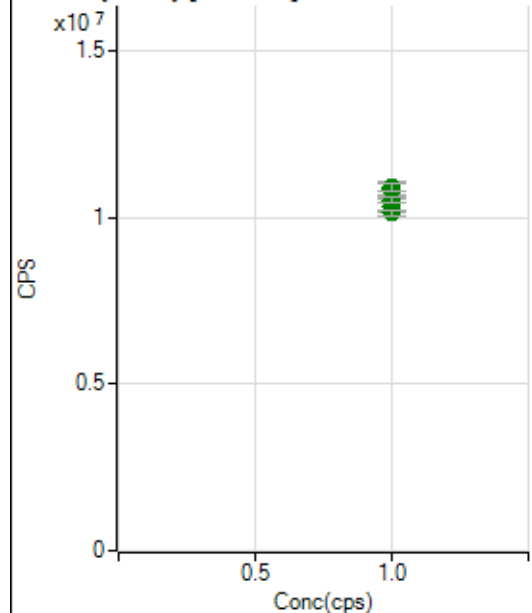
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2209820.16		A	0.6
2	☐	1.000		2195476.94		A	0.4
3	☐	1.000		2211281.92		A	0.1
4	☐	1.000		2179042.12		A	0.7
5	☐	1.000		2160575.81		A	1.0
6	☐	1.000		2137181.88		A	0.5
7	☐	1.000		2128949.82		A	0.6
8	☐	1.000		2124024.14		A	1.4

159 Tb (ISTD) [No Gas]

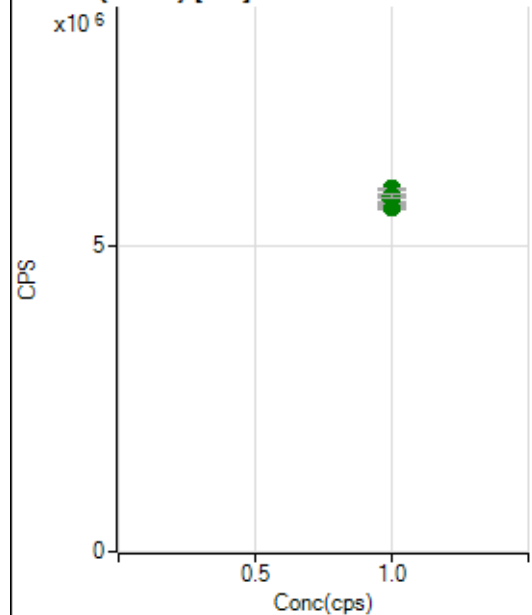
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10748286.44		A	1.6
2	☐	1.000		10437589.57		A	1.8
3	☐	1.000		10976126.50		A	2.2
4	☐	1.000		11281221.36		A	3.7
5	☐	1.000		10958538.59		A	0.3
6	☐	1.000		11207540.53		A	3.0
7	☐	1.000		11200511.78		A	1.6
8	☐	1.000		10868715.81		A	1.5

159 Tb (ISTD) [He]

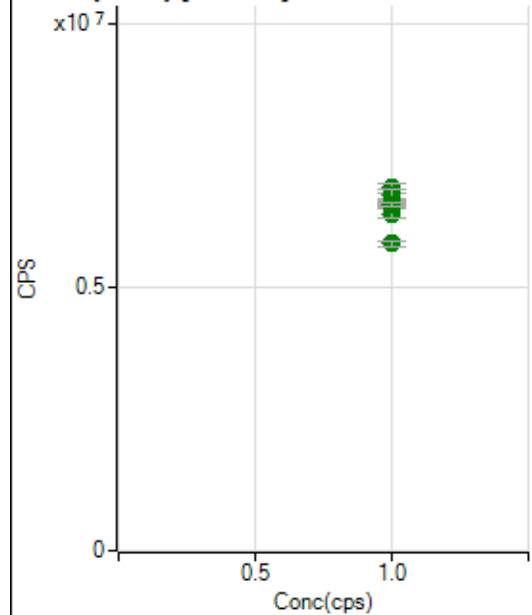
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5830984.50		A	0.7
2	☐	1.000		5758048.39		A	0.8
3	☐	1.000		5856696.51		A	1.1
4	☐	1.000		5813496.79		A	0.1
5	☐	1.000		5872287.55		A	0.3
6	☐	1.000		5850362.27		A	0.3
7	☐	1.000		5863180.75		A	0.2
8	☐	1.000		5903332.14		A	1.3

165 Ho (ISTD) [No Gas]

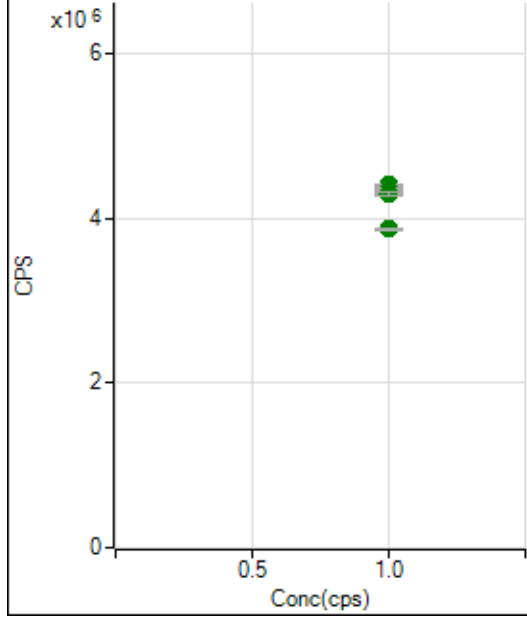
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10328911.37		A	2.9
2	☐	1.000		10166755.34		A	1.8
3	☐	1.000		10526950.68		A	0.9
4	☐	1.000		10880836.30		A	3.6
5	☐	1.000		10632807.48		A	1.1
6	☐	1.000		10859847.76		A	4.0
7	☐	1.000		10903279.63		A	2.0
8	☐	1.000		10544539.56		A	1.4

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5637964.85		A	1.1
2	☐	1.000		5641504.15		A	0.2
3	☐	1.000		5764517.69		A	1.2
4	☐	1.000		5693724.08		A	0.4
5	☐	1.000		5833424.08		A	0.4
6	☐	1.000		5795279.01		A	0.3
7	☐	1.000		5932621.51		A	0.6
8	☐	1.000		5820054.43		A	0.9

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6627997.54		A	2.0
2	☐	1.000		6400140.88		A	3.0
3	☐	1.000		6658327.68		A	1.2
4	☐	1.000		6890201.01		A	2.8
5	☐	1.000		6628157.13		A	0.6
6	☐	1.000		6738752.05		A	3.5
7	☐	1.000		6568815.11		A	1.4
8	☐	1.000		5834158.46		A	1.6

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4367550.77		A	0.9
2	☐	1.000		4324469.90		A	0.7
3	☐	1.000		4403666.53		A	0.7
4	☐	1.000		4344428.58		A	0.5
5	☐	1.000		4347689.17		A	0.4
6	☐	1.000		4287611.84		A	0.8
7	☐	1.000		4294916.88		A	0.7
8	☐	1.000		3863532.68		A	0.8

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7120522MS.b
Acq. Date-Time 2022-12-05 09:46:59
Report Comment ---
Instrument Name G8403A JP14410463

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		9723	97231.44			0.655	5.000
24		237976	2379757.71			0.271	5.000
25		32705	327045.02			0.455	5.000
26		37109	371088.51			0.557	5.000
59		61060	610602.31			0.455	5.000
113		6624	66235.34			0.499	5.000
115		84166	841655.68			0.837	5.000
206		20385	203850.97			0.594	5.000
207		18479	184786.61			0.498	5.000
208		43426	434262.74			0.489	5.000
220		0	3.60			24.845	

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

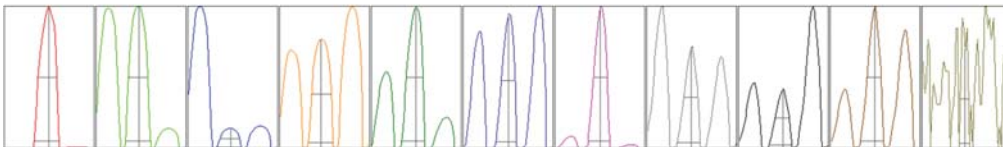
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	9659	9680	9791	9694	9793
24	237413	238326	238883	237349	237907
25	32534	32721	32647	32681	32940
26	36871	37021	37283	37005	37364
59	60684	61077	61389	60904	61247
113	6584	6661	6648	6597	6628
115	84269	83830	85352	83683	83694
206	20199	20484	20410	20339	20493
207	18374	18513	18431	18458	18617
208	43146	43293	43495	43499	43698

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	16677.74	9.00	8.90 - 9.10	
24	383350.88	23.95	23.90 - 24.10	
25	52797.63	24.95	24.90 - 25.10	
26	58759.28	25.90	25.90 - 26.10	
59	114296.04	59.00	58.90 - 59.10	
113	14647.18	113.05	112.90 - 113.10	
115	186823.83	115.05	114.90 - 115.10	
206	43633.45	206.00	205.90 - 206.10	
207	39727.76	207.00	206.90 - 207.10	
208	94272.40	208.00	207.90 - 208.10	
220	0.45	219.95	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.62	0.826	0.900	
24	0.66	0.831	0.900	
25	0.65	0.805	0.900	
26	0.67	0.826	0.900	
59	0.56	0.773	0.900	
113	0.46	0.691	0.900	
115	0.46	0.721	0.900	
206	0.46	0.770	0.900	
207	0.47	0.765	0.900	
208	0.47	0.776	0.900	
220	0.28	0.343		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode ---

Nebulizer Gas 0.78 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	0.0 V	Omega Lens	8.8 V	Deflect	15.8 V
Extract 2	-110.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-70 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 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	1.0002	QP Bias	-3.0 V
Mass Offset	124	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	-0.4 mm	Torch V	0.8 mm
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EM

Discriminator	3.1 mV	Analog HV	2240 V	Pulse HV	1473 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		15545	155449.39			1.620	
89		51061	510605.18			2.427	
205		16881	168813.09			1.684	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	15196	15446	15528	15696	15859
89	49595	50088	51047	52141	52433
205	16538	16769	16753	17229	17117

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.78 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	0.0 V	Omega Lens	9.7 V	Deflect	3.4 V
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US EPA Tune Check Report

Extract 2	-140.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-85 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.9 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		

QP Parameters

Mass Gain	123	Axis Gain	1.0002	QP Bias	-13.0 V
Mass Offset	124	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	-0.4 mm	Torch V	0.8 mm
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EM

Discriminator	3.1 mV	Analog HV	2240 V	Pulse HV	1473 V
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