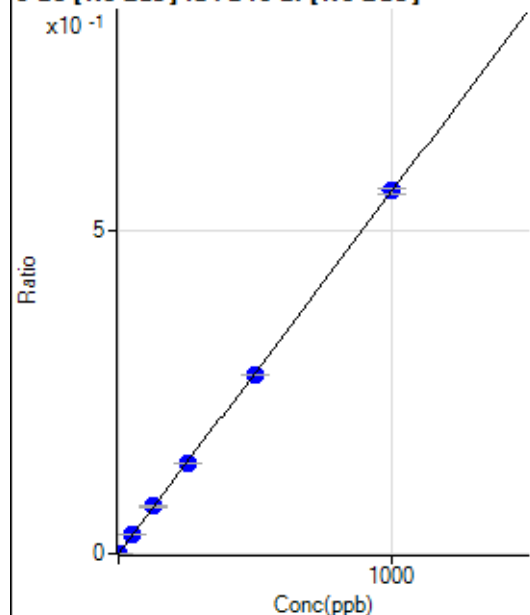


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8010621 MS.b\
Analysis File: P8010621 MS.batch.bin
DA Date-Time: 2021-01-08 14:08:39
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	002CALB.d	S00	2021-01-06 14:33:30
2	004CALS.d	S02	2021-01-06 14:40:07
3	005CALS.d	S03	2021-01-06 14:43:16
4	006CALS.d	S04	2021-01-06 14:46:28
5	007CALS.d	S05	2021-01-06 14:49:31
6	008CALS.d	S06	2021-01-06 14:52:32
7	009CALS.d	S07	2021-01-06 14:55:30
8	010CALS.d	S08	2021-01-06 14:58:31

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	111.98	0.0001	P	5.6
2	☐	1.000	0.969	903.85	0.0006	P	5.2
3	☐	50.000	51.940	41732.37	0.0292	P	2.3
4	☐	125.000	130.121	105504.34	0.0730	P	3.1
5	☐	250.000	249.560	207584.36	0.1399	P	1.3
6	☐	500.000	494.271	421970.94	0.2770	P	0.6
7	☐	1000.000	1002.237	844221.14	0.5616	P	1.5
8	☐			830.53	0.0005	P	11.3

$$y = 5.6029\text{E-}004 * x + 7.9745\text{E-}005$$

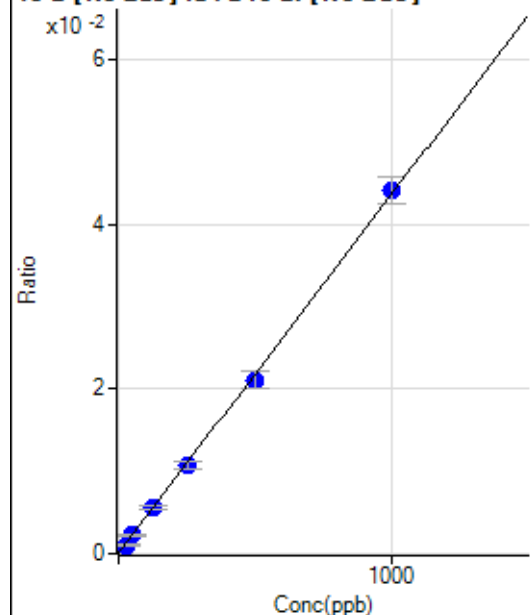
$$R = 1.0000$$

$$DL = 0.02395$$

$$BEC = 0.1423$$

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	89.98	0.0001	P	20.3
2	☐	25.000	22.343	1507.12	0.0010	P	3.5
3	☐	50.000	50.394	3235.07	0.0023	P	8.6
4	☐	125.000	125.630	8010.62	0.0055	P	7.4
5	☐	250.000	246.106	16012.22	0.0108	P	8.7
6	☐	500.000	481.957	32090.59	0.0211	P	9.7
7	☐	1000.000	1009.963	66306.31	0.0441	P	7.4
8	☐			10729.15	0.0071	P	7.4

$$y = 4.3596\text{E-}005 * x + 6.3912\text{E-}005$$

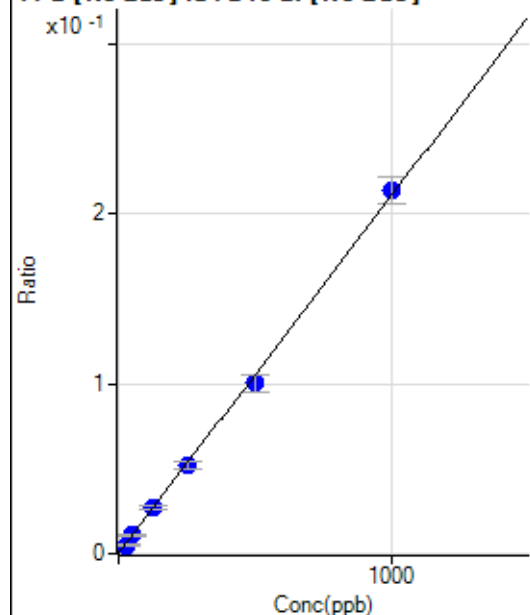
$$R = 0.9997$$

$$DL = 0.8934$$

$$BEC = 1.466$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	371.93	0.0003	P	14.1
2	☐	25.000	22.190	7169.68	0.0049	P	8.5
3	☐	50.000	50.291	15533.81	0.0109	P	7.7
4	☐	125.000	126.668	38952.35	0.0269	P	7.9
5	☐	250.000	245.262	77027.14	0.0519	P	7.8
6	☐	500.000	475.789	152992.57	0.1005	P	9.7
7	☐	1000.000	1013.137	321278.61	0.2137	P	7.5
8	☐			51593.82	0.0340	P	8.1

$$y = 2.1062E-004 * x + 2.6439E-004$$

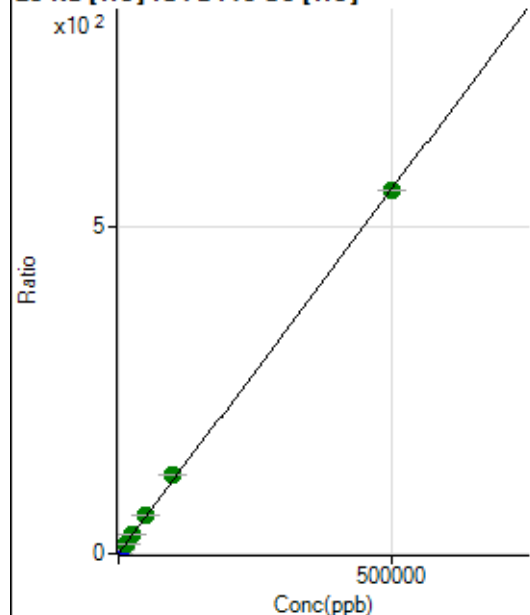
$$R = 0.9995$$

$$DL = 0.5319$$

$$BEC = 1.255$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	36501.73	0.3263	P	1.6
2	☐	500.000	537.414	103202.27	0.9233	P	5.0
3	☐	5000.000	5646.255	727580.26	6.5983	P	1.9
4	☐	12500.000	13652.159	1733498.28	15.4913	A	2.4
5	☐	25000.000	26078.912	3384881.11	29.2951	A	3.5
6	☐	50000.000	53079.437	6710114.69	59.2876	A	1.0
7	☐	100000.00	107989.02	13624281.21	120.2818	A	1.3
8	☐	500000.00	498005.00	62626522.23	553.5160	A	0.2

$$y = 0.0011 * x + 0.3263$$

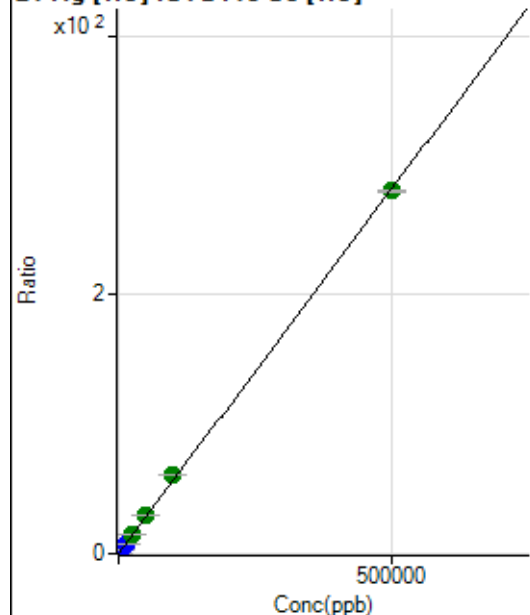
$$R = 0.9999$$

$$DL = 14.21$$

$$BEC = 293.8$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	500.02	0.0045	P	6.7
2	☐	500.000	539.367	34449.62	0.3083	P	5.9
3	☐	5000.000	5715.369	355459.34	3.2237	P	2.3
4	☐	12500.000	13942.502	879369.74	7.8577	P	0.9
5	☐	25000.000	26920.028	1752458.70	15.1674	A	3.6
6	☐	50000.000	54039.313	3445670.48	30.4426	A	0.1
7	☐	100000.00	108707.33	6936004.75	61.2348	A	0.5
8	☐	500000.00	497715.34	31719725.02	280.3468	A	0.5

$$y = 5.6326\text{E-}004 * x + 0.0045$$

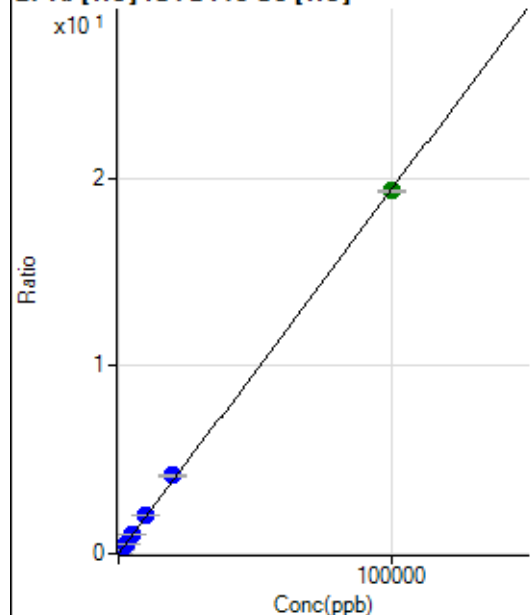
$$R = 0.9998$$

$$DL = 1.584$$

$$BEC = 7.939$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	368.71	0.0033	P	5.8
2	☐	20.000	21.370	831.59	0.0074	P	8.2
3	☐	1000.000	1094.641	23788.44	0.2157	P	1.6
4	☐	2500.000	2697.799	58957.13	0.5268	P	1.2
5	☐	5000.000	5170.463	116326.53	1.0067	P	2.9
6	☐	10000.000	10643.347	234141.22	2.0687	P	0.8
7	☐	20000.000	21408.562	470962.97	4.1578	P	1.0
8	☐	100000.00	99639.538	2188152.81	19.3394	A	0.7

$$y = 1.9406\text{E-}004 * x + 0.0033$$

$$R = 0.9999$$

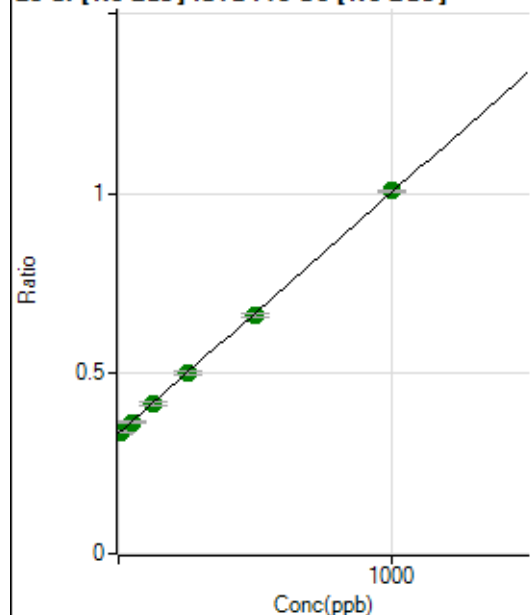
$$DL = 2.973$$

$$BEC = 16.98$$

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	922767.69	0.3345	A	3.1
2	☐	10.000	5.091	944704.50	0.3379	A	0.7
3	☐	50.000	44.138	1019280.70	0.3640	A	1.5
4	☐	125.000	122.550	1163233.36	0.4163	A	2.0
5	☐	250.000	250.109	1419927.84	0.5015	A	1.3
6	☐	500.000	488.596	1926863.91	0.6608	A	1.9
7	☐	1000.000	1006.323	2848659.20	1.0066	A	0.5
8	☐			1097202.27	0.3858	A	1.5

$$y = 6.6791\text{E-}004 * x + 0.3345$$

R = 0.9999

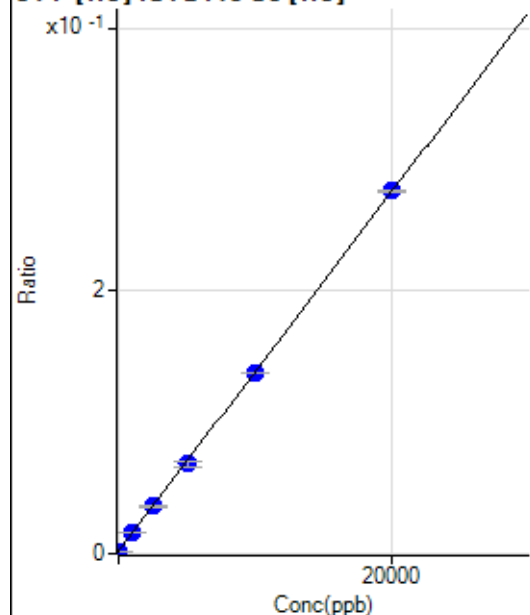
DL = 46.03

BEC = 500.8

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	9.368	222.23	0.0020	P	5.2
2	☐	0.000	-9.368	191.67	0.0017	P	42.8
3	☐	1000.000	1011.596	1730.71	0.0157	P	1.0
4	☐	2500.000	2495.490	4028.44	0.0360	P	4.7
5	☐	5000.000	4856.602	7888.43	0.0683	P	5.6
6	☐	10000.000	9943.962	15603.22	0.1379	P	0.6
7	☐	20000.000	20063.853	31292.67	0.2763	P	0.2
8	☐			188.90	0.0017	P	17.2

$$y = 1.3677\text{E-}005 * x + 0.0019$$

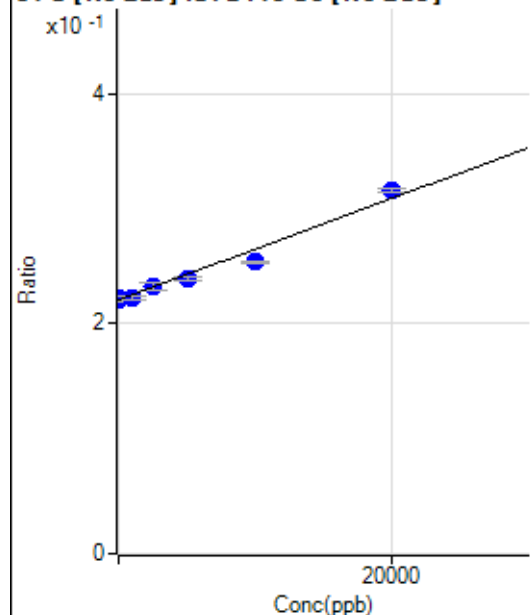
R = 1.0000

DL = 92.69

BEC = 135.9

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	203.292	611609.36	0.2216	P	1.3
2	☐	0.000	-203.292	614641.79	0.2198	P	1.0
3	☐	1000.000	361.798	622653.28	0.2223	P	1.8
4	☐	2500.000	2503.562	647472.82	0.2318	P	2.9
5	☐	5000.000	4114.920	676301.38	0.2389	P	1.0
6	☐	10000.000	7547.975	740644.67	0.2540	P	0.7
7	☐	20000.000	21478.747	892474.14	0.3154	P	1.1
8	☐			564554.78	0.1985	P	0.2

$$y = 4.4065\text{E-}006 * x + 0.2207$$

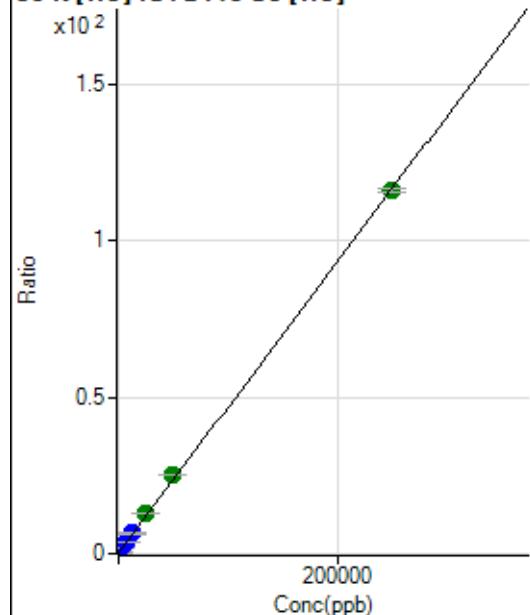
$$R = 0.9887$$

$$DL = 1721$$

$$BEC = 5.009\text{E}+04$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	27916.48	0.2496	P	3.6
2	☐	500.000	528.986	55362.17	0.4951	P	3.2
3	☐	2500.000	2870.439	174376.98	1.5814	P	2.0
4	☐	6250.000	7001.241	391451.88	3.4979	P	1.1
5	☐	12500.000	13390.652	746787.58	6.4624	P	2.7
6	☐	25000.000	27173.301	1455166.98	12.8570	A	1.1
7	☐	50000.000	53438.982	2836692.71	25.0433	A	0.3
8	☐	250000.00	249027.79	13100954.98	115.7891	A	1.1

$$y = 4.6396\text{E-}004 * x + 0.2496$$

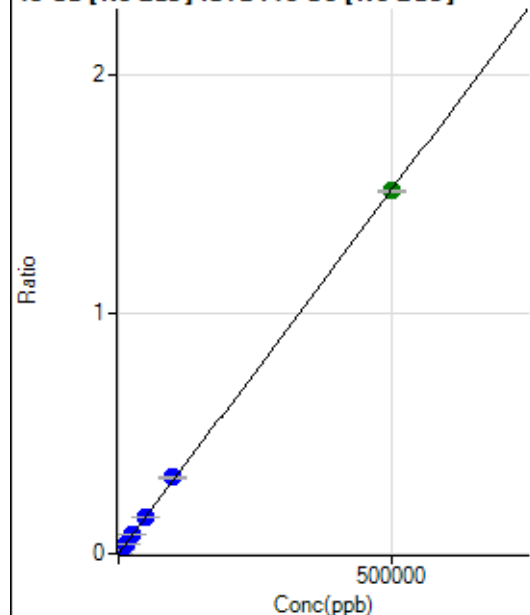
$$R = 0.9999$$

$$DL = 58.08$$

$$BEC = 538$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	273.72	0.0001	P	7.4
2	☐	500.000	494.253	4465.98	0.0016	P	1.7
3	☐	5000.000	5086.932	43460.84	0.0155	P	1.5
4	☐	12500.000	12913.399	109621.52	0.0392	P	3.0
5	☐	25000.000	25449.145	218678.93	0.0772	P	1.0
6	☐	50000.000	50358.377	445376.98	0.1527	P	0.8
7	☐	100000.00	104815.97	899328.82	0.3178	P	0.9
8	☐	500000.00	498967.31	4301398.58	1.5125	A	0.7

$$y = 3.0311\text{E-}006 * x + 9.9234\text{E-}005$$

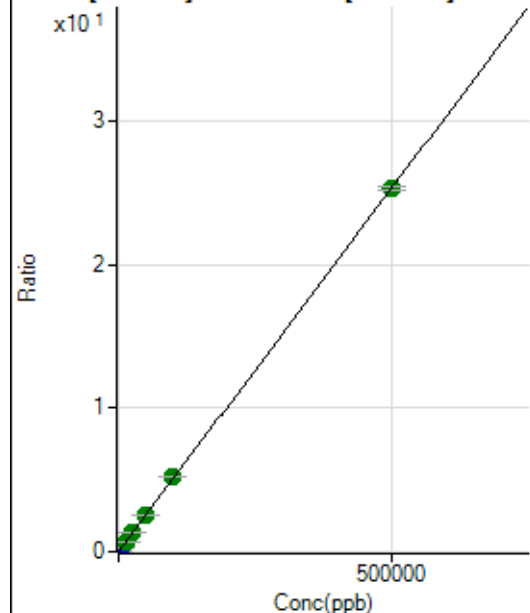
$$R = 0.9999$$

$$DL = 7.222$$

$$BEC = 32.74$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	16563.86	0.0060	P	0.4
2	☐	500.000	503.353	88068.65	0.0315	P	0.9
3	☐	5000.000	5138.717	745839.73	0.2663	P	1.4
4	☐	12500.000	12969.054	1851740.36	0.6630	A	4.0
5	☐	25000.000	25287.166	3643742.53	1.2870	A	1.0
6	☐	50000.000	49267.544	7295157.28	2.5017	A	0.2
7	☐	100000.00	103307.95	14825412.47	5.2392	A	1.5
8	☐	500000.00	499384.18	71958951.08	25.3032	A	1.0

$$y = 5.0657\text{E-}005 * x + 0.0060$$

$$R = 1.0000$$

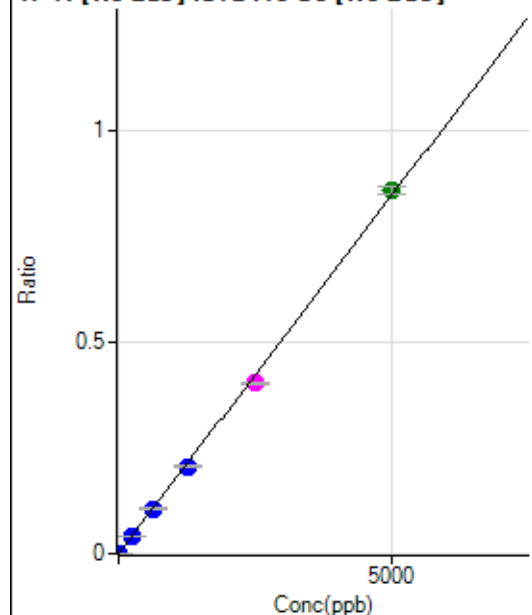
$$DL = 1.387$$

$$BEC = 118.5$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	386.13	0.0001	P	10.4
2	☐	5.000	5.121	2814.25	0.0010	P	4.8
3	☐	250.000	245.444	116690.73	0.0417	P	1.2
4	☐	625.000	625.403	295991.65	0.1059	P	3.0
5	☐	1250.000	1213.388	581603.52	0.2054	P	1.4
6	☐	2500.000	2384.003	1176510.19	0.4035	M	0.8
7	☐	5000.000	5067.329	2426230.26	0.8575	A	2.2
8	☐			1636.25	0.0006	P	11.6

$$y = 1.6919\text{E-}004 * x + 1.3996\text{E-}004$$

$$R = 0.9996$$

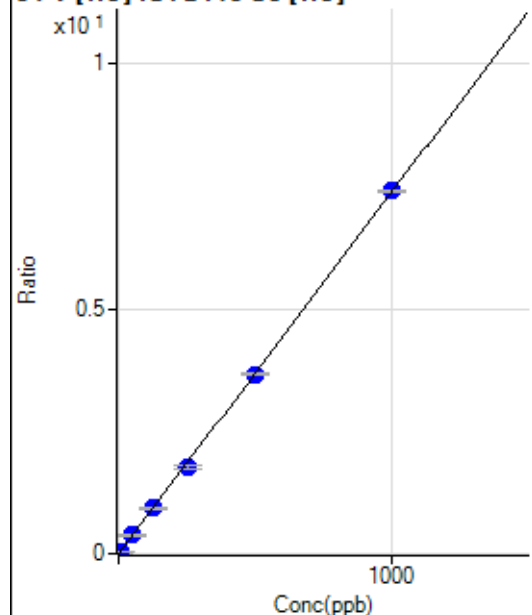
$$DL = 0.2581$$

$$BEC = 0.8273$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	16.67	0.0001	P	20.5
2	☐	5.000	4.936	4083.96	0.0365	P	4.7
3	☐	50.000	50.731	41245.99	0.3740	P	1.6
4	☐	125.000	125.102	103186.22	0.9221	P	2.0
5	☐	250.000	239.903	204310.03	1.7682	P	3.2
6	☐	500.000	496.731	414356.77	3.6610	P	0.6
7	☐	1000.000	1004.110	838200.21	7.4003	P	0.8
8	☐			253.34	0.0022	P	28.6

$$y = 0.0074 * x + 1.4910\text{E-}004$$

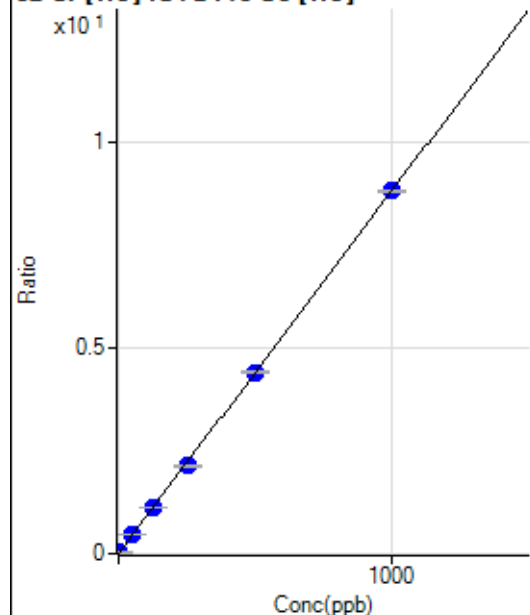
$$R = 0.9999$$

$$DL = 0.01244$$

$$BEC = 0.02023$$

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	705.58	0.0063	P	6.5
2	☐	2.000	1.989	2654.72	0.0238	P	7.9
3	☐	50.000	53.053	52052.03	0.4721	P	2.8
4	☐	125.000	126.805	125292.77	1.1196	P	1.3
5	☐	250.000	241.990	246229.52	2.1309	P	3.0
6	☐	500.000	500.695	498252.66	4.4022	P	0.5
7	☐	1000.000	1001.277	996436.46	8.7971	P	0.4
8	☐			4450.74	0.0393	P	3.7

$$y = 0.0088 * x + 0.0063$$

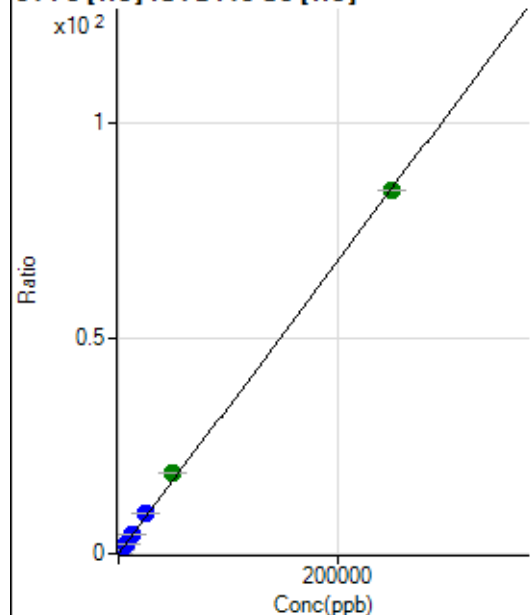
$$R = 1.0000$$

$$DL = 0.1396$$

$$BEC = 0.7187$$

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	455.57	0.0041	P	7.7
2	☐	50.000	55.107	2539.16	0.0227	P	8.5
3	☐	2500.000	2844.827	106710.11	0.9677	P	1.7
4	☐	6250.000	6954.698	264075.67	2.3598	P	1.3
5	☐	12500.000	13353.460	523095.55	4.5272	P	3.3
6	☐	25000.000	27402.620	1050993.10	9.2859	P	0.7
7	☐	50000.000	55156.267	2116657.67	18.6867	A	0.9
8	☐	250000.00	248664.74	9530284.24	84.2321	A	0.1

$$y = 3.3872E-004 * x + 0.0041$$

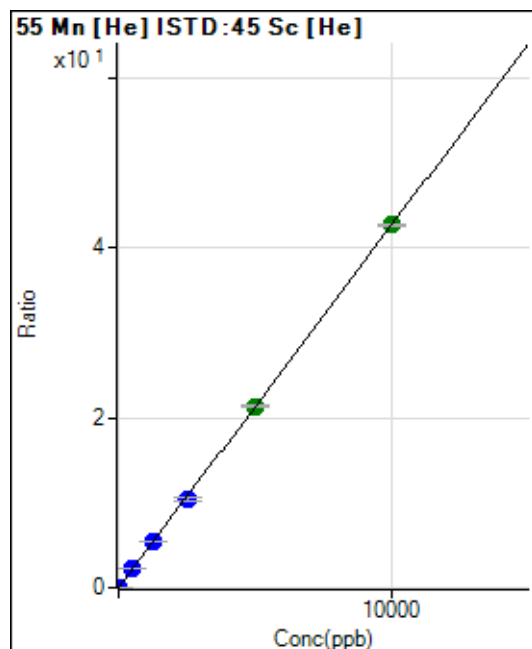
$$R = 0.9998$$

$$DL = 2.76$$

$$BEC = 12.02$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	90.00	0.0008	P	14.0
2	☐	1.000	1.011	572.24	0.0051	P	6.9
3	☐	500.000	512.232	240649.45	2.1825	P	2.3
4	☐	1250.000	1266.500	603743.36	5.3950	P	1.3
5	☐	2500.000	2429.302	1195521.81	10.3476	P	3.8
6	☐	5000.000	5008.966	2414677.22	21.3347	A	1.0
7	☐	10000.000	10010.517	4829645.48	42.6371	A	0.6
8	☐			3478.25	0.0308	P	10.8

$$y = 0.0043 * x + 8.0508E-004$$

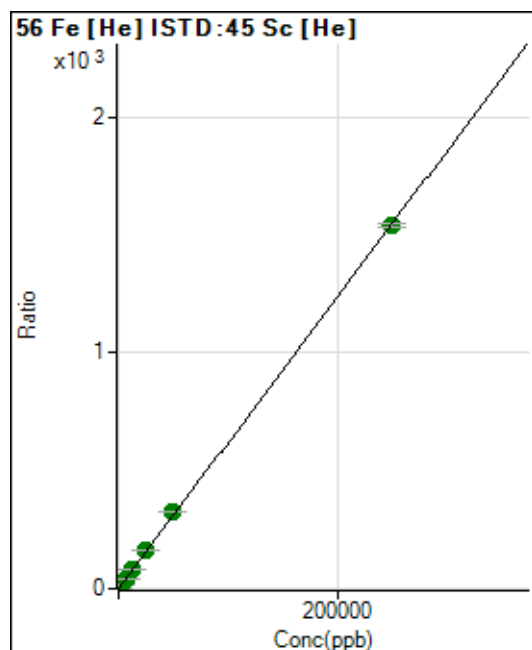
$$R = 1.0000$$

$$DL = 0.07917$$

$$BEC = 0.189$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	2824.40	0.0253	P	6.5
2	☐	50.000	53.788	39998.83	0.3577	P	3.4
3	☐	2500.000	2779.564	1896870.12	17.2037	A	2.7
4	☐	6250.000	6784.906	4695203.40	41.9577	A	2.0
5	☐	12500.000	13021.189	9299910.85	80.4995	A	4.2
6	☐	25000.000	26745.276	18711029.59	165.3178	A	0.5
7	☐	50000.000	53244.358	37275728.15	329.0888	A	0.5
8	☐	250000.00	249134.37	174216129.8	1,539.738	A	1.0

$$y = 0.0062 * x + 0.0253$$

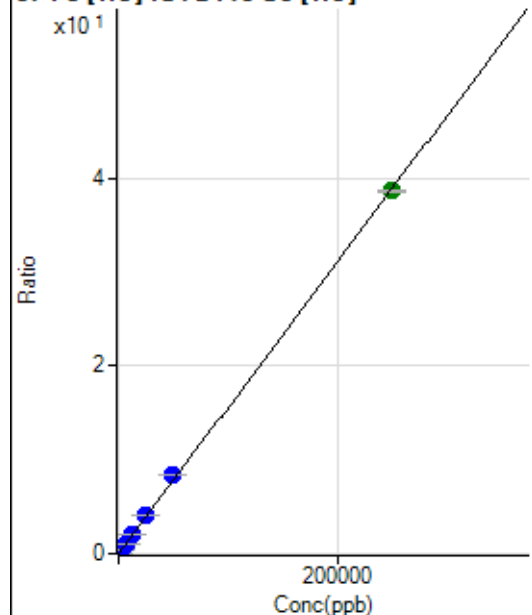
$$R = 0.9999$$

$$DL = 0.792$$

$$BEC = 4.087$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	133.34	0.0012	P	8.6
2	☐	50.000	51.358	1024.13	0.0092	P	13.6
3	☐	2500.000	2763.580	47454.81	0.4304	P	2.5
4	☐	6250.000	6803.891	118388.52	1.0578	P	1.2
5	☐	12500.000	13090.985	235054.26	2.0342	P	3.1
6	☐	25000.000	26832.096	471761.09	4.1682	P	1.3
7	☐	50000.000	53698.567	944727.07	8.3406	P	0.3
8	☐	250000.00	249031.04	4375901.75	38.6760	A	0.6

$$y = 1.5530\text{E-}004 * x + 0.0012$$

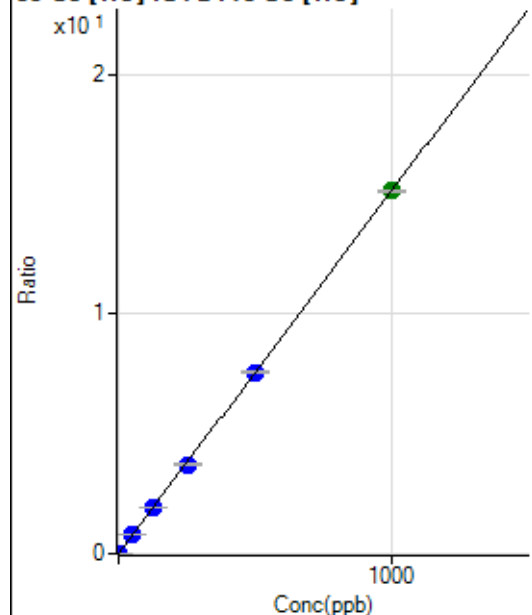
$$R = 0.9999$$

$$DL = 1.977$$

$$BEC = 7.677$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	55.55	0.0005	P	30.8
2	☐	1.000	1.021	1781.24	0.0159	P	5.7
3	☐	50.000	52.038	86826.00	0.7874	P	2.2
4	☐	125.000	127.837	216376.64	1.9337	P	2.0
5	☐	250.000	245.239	428600.05	3.7090	P	2.9
6	☐	500.000	500.965	857456.20	7.5761	P	1.2
7	☐	1000.000	1000.251	1713357.37	15.1264	A	0.5
8	☐			2591.38	0.0229	P	4.9

$$y = 0.0151 * x + 4.9717\text{E-}004$$

$$R = 1.0000$$

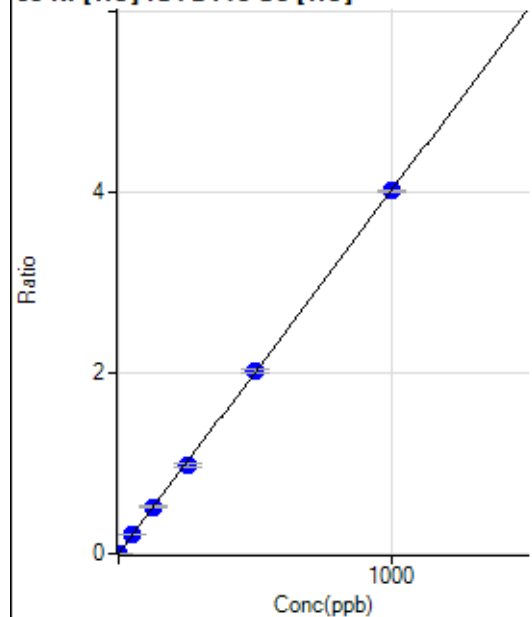
$$DL = 0.03035$$

$$BEC = 0.03288$$

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	232.23	0.0021	P	16.6
2	☐	1.000	0.985	674.47	0.0060	P	10.2
3	☐	50.000	52.975	23714.28	0.2151	P	2.5
4	☐	125.000	128.189	57903.89	0.5175	P	2.7
5	☐	250.000	244.559	113852.36	0.9854	P	3.6
6	☐	500.000	503.379	229301.68	2.0260	P	1.3
7	☐	1000.000	999.123	455259.72	4.0193	P	0.7
8	☐			1502.32	0.0133	P	4.3

$$y = 0.0040 * x + 0.0021$$

$$R = 1.0000$$

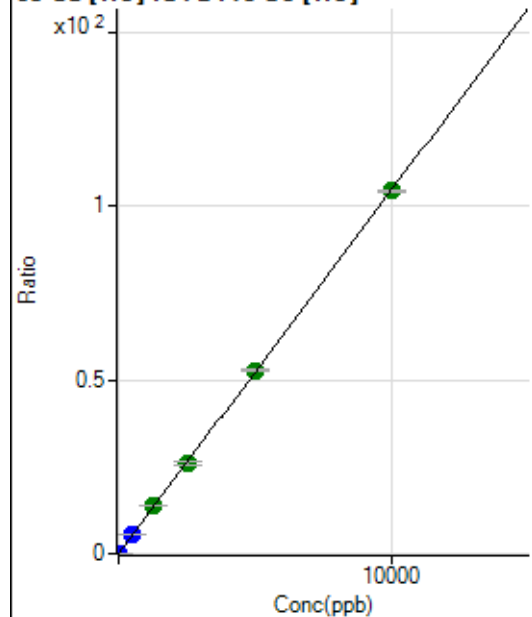
$$DL = 0.2566$$

$$BEC = 0.516$$

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	636.69	0.0057	P	5.9
2	☐	2.000	2.238	3254.67	0.0291	P	2.1
3	☐	500.000	531.744	613788.21	5.5660	P	1.5
4	☐	1250.000	1309.436	1532943.87	13.6980	A	1.3
5	☐	2500.000	2487.417	3006205.20	26.0158	A	3.0
6	☐	5000.000	5033.380	5957745.94	52.6381	A	0.9
7	☐	10000.000	9977.439	11817899.77	104.3366	A	0.5
8	☐			8300.54	0.0734	P	13.2

$$y = 0.0105 * x + 0.0057$$

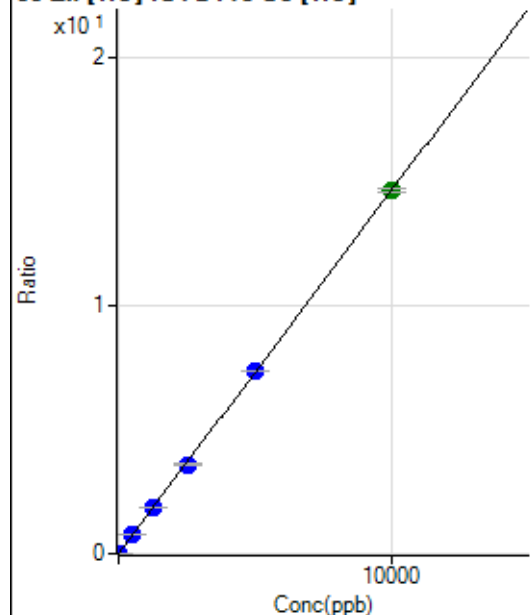
$$R = 1.0000$$

$$DL = 0.09684$$

$$BEC = 0.5442$$

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	165.56	0.0015	P	7.1
2	☐	2.000	1.888	474.46	0.0042	P	7.5
3	☐	500.000	524.493	84879.95	0.7697	P	1.5
4	☐	1250.000	1282.107	210305.39	1.8794	P	2.1
5	☐	2500.000	2460.603	416643.14	3.6056	P	2.9
6	☐	5000.000	5028.620	833800.75	7.3670	P	0.9
7	☐	10000.000	9990.301	1657551.62	14.6345	A	1.1
8	☐			2037.94	0.0180	P	6.9

$$y = 0.0015 * x + 0.0015$$

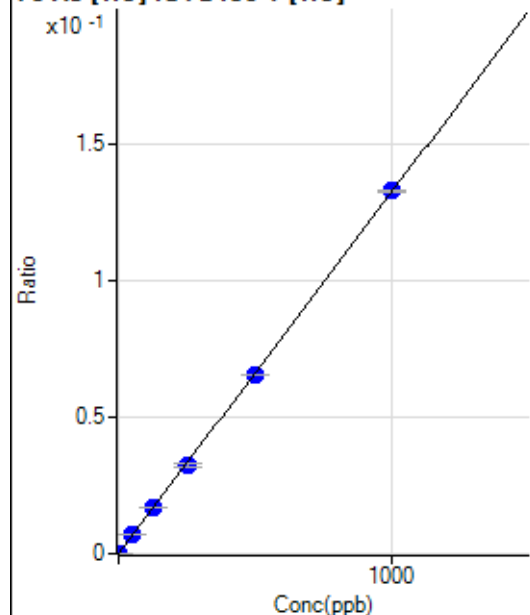
$$R = 1.0000$$

$$DL = 0.2144$$

$$BEC = 1.011$$

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	14.67	0.0000	P	17.1
2	☐	1.000	0.928	127.34	0.0001	P	4.2
3	☐	50.000	50.865	6128.29	0.0068	P	1.3
4	☐	125.000	126.180	15379.55	0.0167	P	1.7
5	☐	250.000	245.035	30769.74	0.0325	P	3.6
6	☐	500.000	494.578	61598.48	0.0656	P	0.5
7	☐	1000.000	1003.761	124931.73	0.1331	P	0.5
8	☐			76.34	0.0001	P	26.2

$$y = 1.3254E-004 * x + 1.6059E-005$$

$$R = 1.0000$$

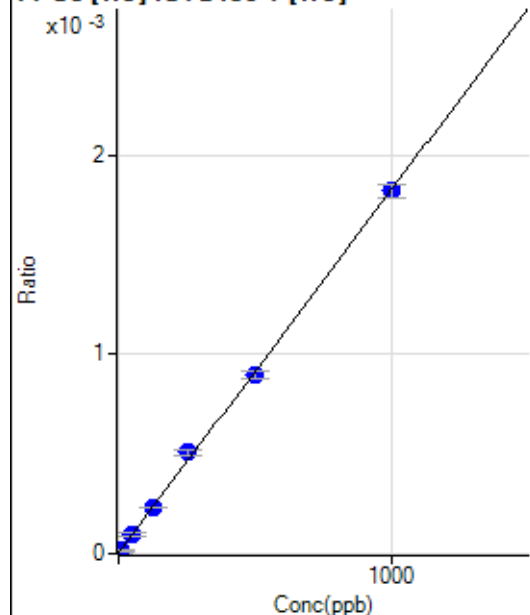
$$DL = 0.06219$$

$$BEC = 0.1212$$

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	3.33	0.0000	P	100.
2	☐	5.000	7.933	16.67	0.0000	P	60.5
3	☐	50.000	50.923	87.78	0.0001	P	24.6
4	☐	125.000	125.236	213.33	0.0002	P	2.5
5	☐	250.000	277.231	483.35	0.0005	P	5.6
6	☐	500.000	492.561	847.81	0.0009	P	4.3
7	☐	1000.000	996.822	1711.23	0.0018	P	3.6
8	☐			5.56	0.0000	P	91.3

$$y = 1.8248\text{E-}006 * x + 3.6604\text{E-}006$$

$$R = 0.9995$$

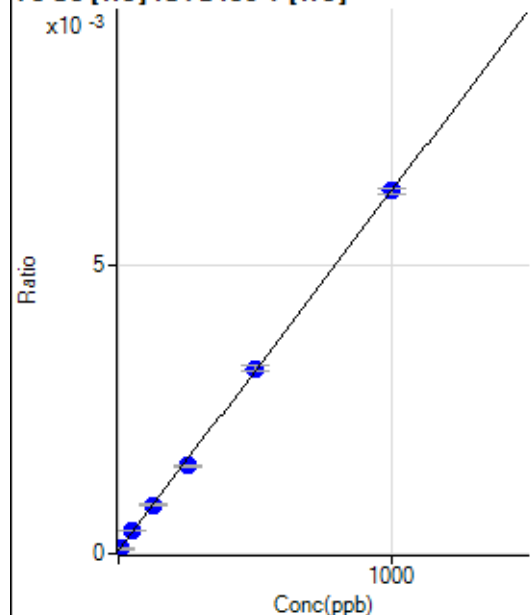
$$DL = 6.019$$

$$BEC = 2.006$$

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	51.67	0.0001	P	21.1
2	☐	5.000	4.508	77.68	0.0001	P	4.7
3	☐	50.000	55.184	363.71	0.0004	P	4.2
4	☐	125.000	125.596	772.44	0.0008	P	3.3
5	☐	250.000	235.807	1448.56	0.0015	P	2.2
6	☐	500.000	506.892	3026.64	0.0032	P	3.2
7	☐	1000.000	999.771	5914.51	0.0063	P	1.4
8	☐			49.01	0.0001	P	16.4

$$y = 6.2435\text{E-}006 * x + 5.6567\text{E-}005$$

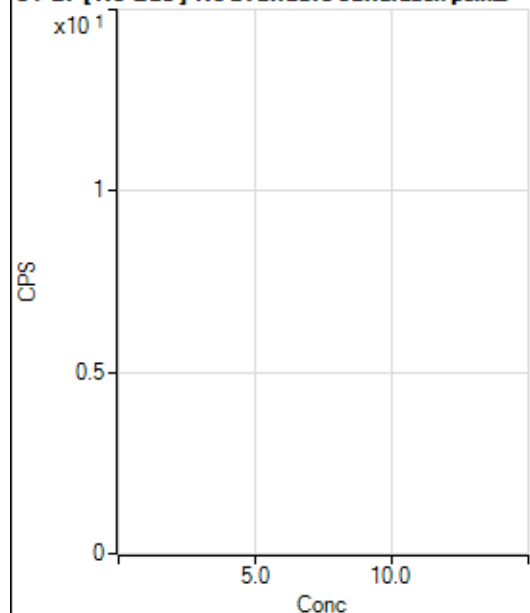
$$R = 0.9998$$

$$DL = 5.737$$

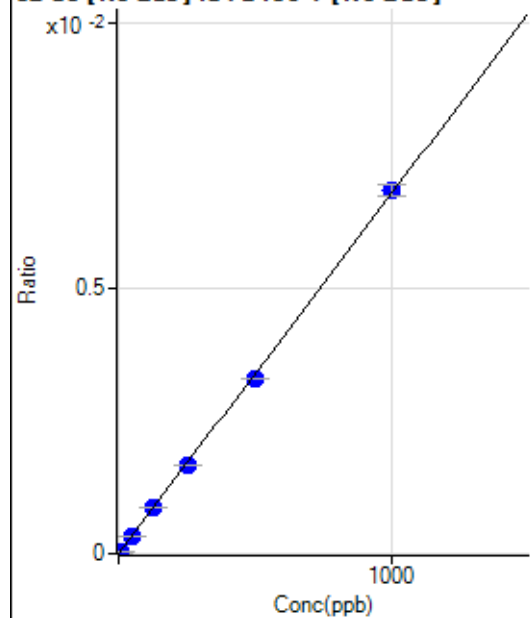
$$BEC = 9.06$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3260.41		P	12.5
2	☐			3223.69		P	7.5
3	☐			3133.61		P	9.2
4	☐			3156.96		P	7.0
5	☐			3176.97		P	4.6
6	☐			3383.91		P	2.3
7	☐			3143.59		P	8.8
8	☐			3670.95		P	1.4

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	-38.95	0.0000	P	-48.
2	☐	5.000	4.849	216.39	0.0000	P	10.6
3	☐	50.000	50.060	2552.78	0.0003	P	2.6
4	☐	125.000	128.173	6662.00	0.0009	P	2.6
5	☐	250.000	246.176	12977.63	0.0017	P	0.5
6	☐	500.000	485.426	26281.01	0.0033	P	0.4
7	☐	1000.000	1007.844	53265.39	0.0068	P	3.0
8	☐			67.69	0.0000	P	82.6

$$y = 6.7764E-006 * x - 5.1370E-006$$

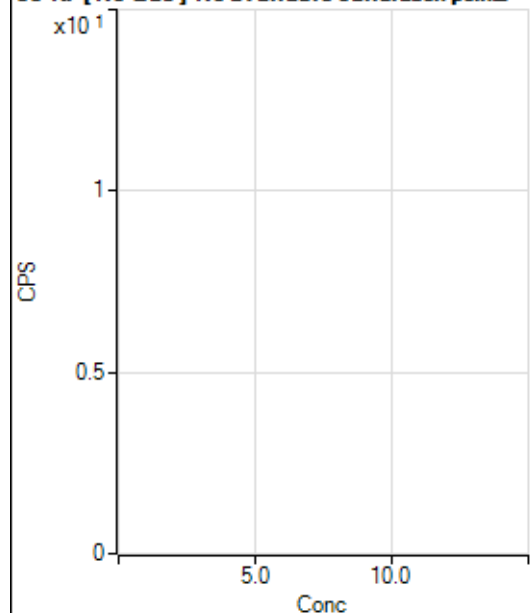
$$R = 0.9998$$

$$DL = 1.113$$

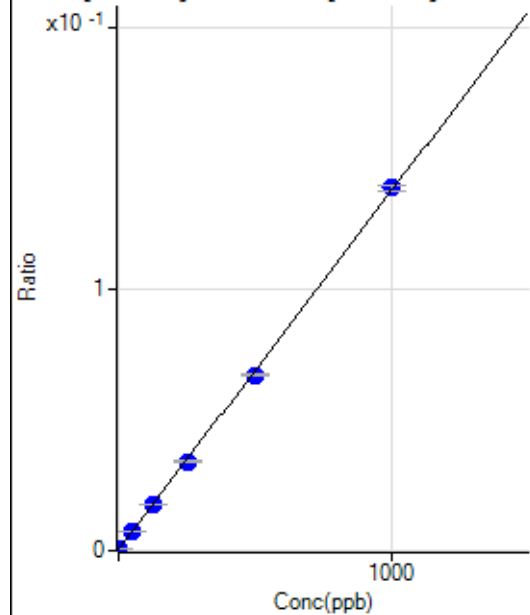
$$BEC = -0.7581$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1897.93		P	5.2
2	☐			1929.04		P	4.5
3	☐			1836.81		P	3.5
4	☐			1854.59		P	7.5
5	☐			1940.15		P	1.2
6	☐			1801.25		P	1.1
7	☐			1775.69		P	3.5
8	☐			1805.69		P	2.4

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	3122.66	0.0004	P	3.9
2	☐	1.000	0.798	4056.26	0.0005	P	3.2
3	☐	50.000	50.725	56344.45	0.0074	P	1.7
4	☐	125.000	125.206	135797.64	0.0176	P	1.4
5	☐	250.000	245.982	266709.18	0.0342	P	0.5
6	☐	500.000	485.272	536334.96	0.0670	P	1.2
7	☐	1000.000	1008.307	1083820.12	0.1388	P	1.7
8	☐			9053.14	0.0012	P	2.4

$$y = 1.3728\text{E-}004 * x + 4.1019\text{E-}004$$

$$R = 0.9998$$

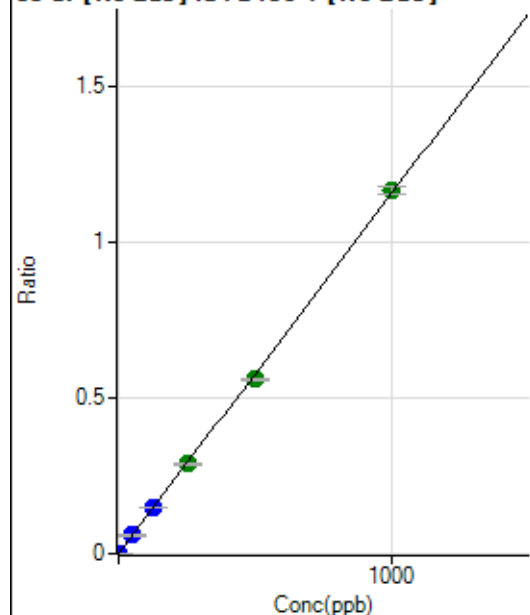
$$DL = 0.3479$$

$$BEC = 2.988$$

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	250.01	0.0000	P	13.0
2	☐	1.000	0.997	9250.58	0.0012	P	1.6
3	☐	50.000	50.804	449092.77	0.0588	P	1.0
4	☐	125.000	127.834	1140709.60	0.1478	P	0.9
5	☐	250.000	249.208	2248376.85	0.2882	A	1.6
6	☐	500.000	483.775	4475606.83	0.5593	A	1.2
7	☐	1000.000	1007.916	9096980.41	1.1653	A	2.1
8	☐			52566.21	0.0068	P	0.4

$$y = 0.0012 * x + 3.2823E-005$$

$$R = 0.9998$$

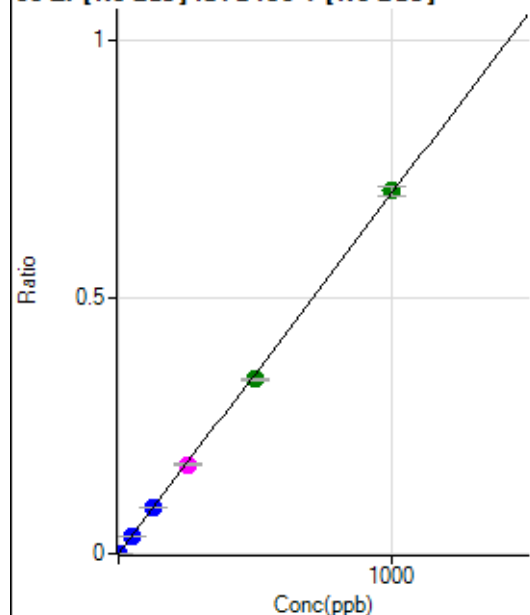
$$DL = 0.01105$$

$$BEC = 0.02839$$

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	283.35	0.0000	P	14.1
2	☐	1.000	0.973	5623.50	0.0007	P	2.0
3	☐	50.000	50.438	270984.17	0.0355	P	0.3
4	☐	125.000	127.933	693621.98	0.0899	P	2.0
5	☐	250.000	247.495	1356722.94	0.1739	M	1.8
6	☐	500.000	484.845	2725136.93	0.3406	A	0.8
7	☐	1000.000	1007.815	5525435.41	0.7079	A	2.6
8	☐			4309.12	0.0006	P	4.1

$$y = 7.0234E-004 * x + 3.7260E-005$$

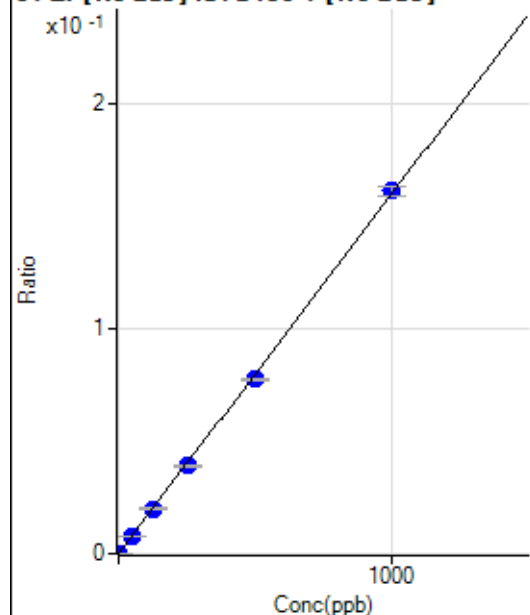
$$R = 0.9998$$

$$DL = 0.0224$$

$$BEC = 0.05305$$

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	55.56	0.0000	P	22.4
2	☐	1.000	0.976	1275.09	0.0002	P	8.9
3	☐	50.000	49.186	60191.50	0.0079	P	0.9
4	☐	125.000	124.975	154353.52	0.0200	P	1.2
5	☐	250.000	243.601	304214.44	0.0390	P	1.2
6	☐	500.000	484.715	620614.01	0.0776	P	0.7
7	☐	1000.000	1009.286	1260547.30	0.1615	P	2.6
8	☐			938.95	0.0001	P	12.6

$$y = 1.6000\text{E-}004 * x + 7.2888\text{E-}006$$

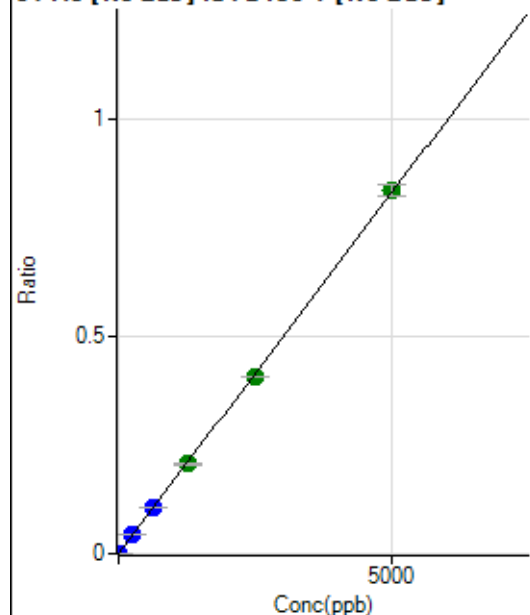
$$R = 0.9998$$

$$DL = 0.03061$$

$$BEC = 0.04556$$

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	136.12	0.0000	P	14.4
2	☐	5.000	4.862	6440.56	0.0008	P	0.2
3	☐	250.000	255.359	324179.63	0.0424	P	1.0
4	☐	625.000	639.937	820166.99	0.1063	P	1.6
5	☐	1250.000	1242.774	1610618.39	0.2064	A	0.7
6	☐	2500.000	2444.434	3248383.36	0.4060	A	0.2
7	☐	5000.000	5027.454	6516698.71	0.8349	A	3.1
8	☐			4592.56	0.0006	P	12.8

$$y = 1.6607\text{E-}004 * x + 1.7861\text{E-}005$$

$$R = 0.9999$$

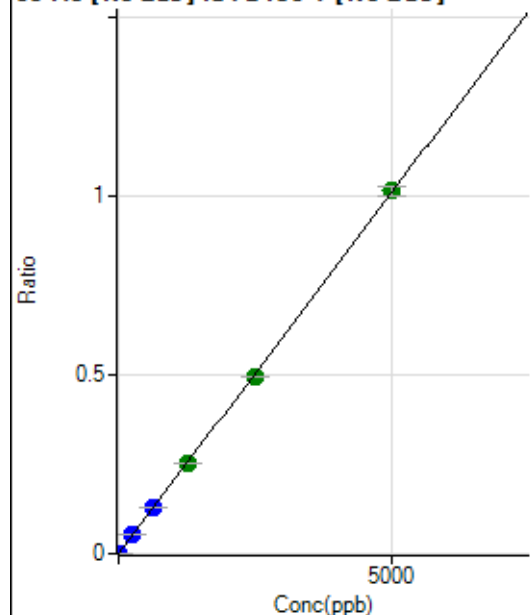
$$DL = 0.04634$$

$$BEC = 0.1076$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	86.11	0.0000	P	27.1
2	☐	5.000	5.110	8127.63	0.0010	P	0.4
3	☐	250.000	254.657	392364.30	0.0513	P	0.9
4	☐	625.000	644.247	1002235.54	0.1299	P	1.0
5	☐	1250.000	1250.434	1966895.53	0.2521	A	1.6
6	☐	2500.000	2443.757	3941940.63	0.4926	A	0.3
7	☐	5000.000	5025.374	7908037.94	1.0130	A	2.4
8	☐			5445.67	0.0007	P	8.0

$$y = 2.0158\text{E-}004 * x + 1.1288\text{E-}005$$

$$R = 0.9999$$

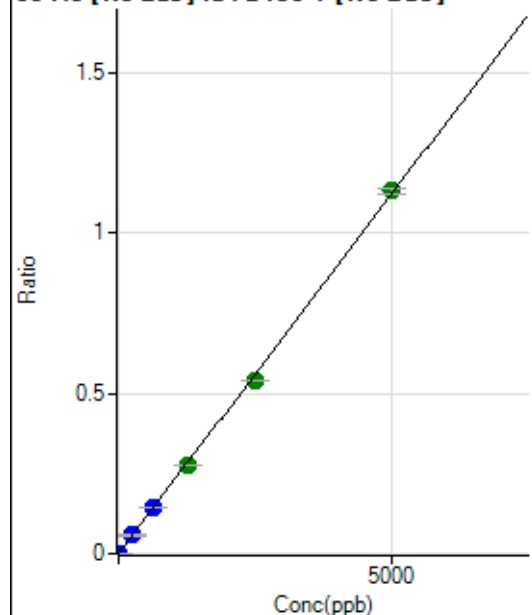
$$DL = 0.04549$$

$$BEC = 0.05599$$

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	125.00	0.0000	P	19.7
2	☐	5.000	5.095	9047.67	0.0012	P	1.3
3	☐	250.000	254.770	436843.05	0.0572	P	0.8
4	☐	625.000	637.824	1104208.41	0.1431	P	1.7
5	☐	1250.000	1236.706	2164833.53	0.2774	A	1.1
6	☐	2500.000	2408.285	4322881.22	0.5402	A	0.6
7	☐	5000.000	5047.340	8839186.40	1.1322	A	1.7
8	☐			6132.10	0.0008	P	8.1

$$y = 2.2432\text{E-}004 * x + 1.6407\text{E-}005$$

$$R = 0.9997$$

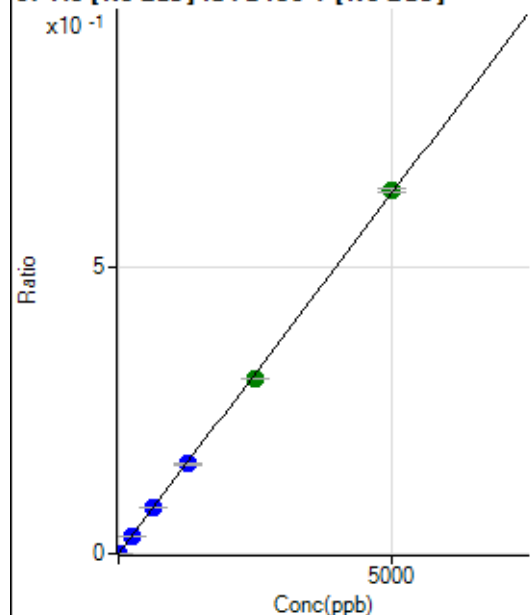
$$DL = 0.04318$$

$$BEC = 0.07314$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	41.66	0.0000	P	34.9
2	☐	5.000	4.862	4825.98	0.0006	P	3.2
3	☐	250.000	251.334	242124.82	0.0317	P	0.4
4	☐	625.000	638.664	621238.72	0.0805	P	2.5
5	☐	1250.000	1246.667	1226206.03	0.1571	P	1.4
6	☐	2500.000	2427.032	2448000.94	0.3059	A	0.4
7	☐	5000.000	5035.543	4955776.72	0.6347	A	1.0
8	☐			3247.71	0.0004	P	10.0

$$y = 1.2605\text{E-}004 * x + 5.4749\text{E-}006$$

$$R = 0.9998$$

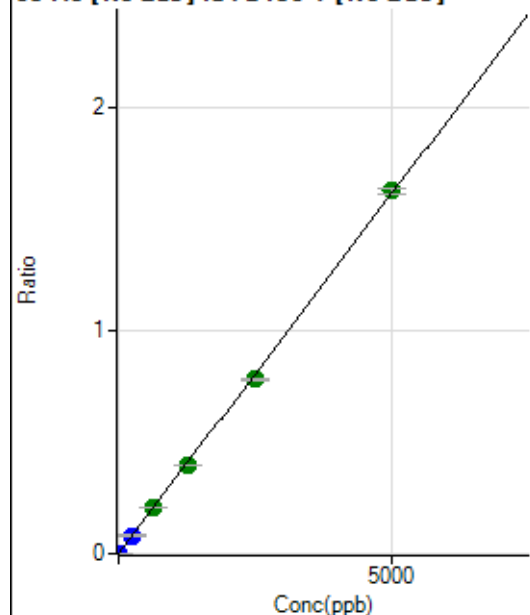
$$DL = 0.04546$$

$$BEC = 0.04344$$

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	122.23	0.0000	P	14.7
2	☐	5.000	5.014	12745.12	0.0016	P	1.9
3	☐	250.000	253.191	624135.99	0.0817	P	0.6
4	☐	625.000	636.257	1583654.46	0.2052	A	1.5
5	☐	1250.000	1231.781	3100125.31	0.3973	A	1.5
6	☐	2500.000	2420.595	6247633.95	0.7807	A	0.9
7	☐	5000.000	5042.690	12697334.48	1.6264	A	1.9
8	☐			8441.70	0.0011	P	4.9

$$y = 3.2253\text{E-}004 * x + 1.6062\text{E-}005$$

$$R = 0.9998$$

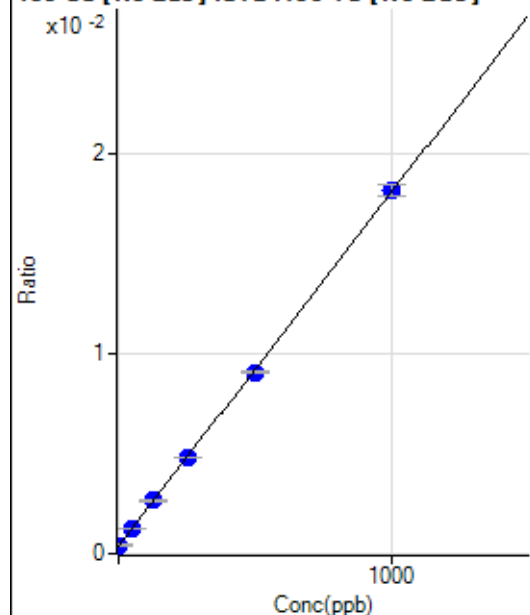
$$DL = 0.02199$$

$$BEC = 0.0498$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1677.93	0.0004	P	4.3
2	☐	1.000	2.513	1883.52	0.0004	P	13.1
3	☐	50.000	50.871	5645.75	0.0013	P	2.8
4	☐	125.000	129.322	11919.33	0.0027	P	2.4
5	☐	250.000	249.415	21581.25	0.0048	P	0.5
6	☐	500.000	491.345	42187.25	0.0091	P	1.6
7	☐	1000.000	1003.888	82231.15	0.0181	P	3.0
8	☐			1941.86	0.0004	P	3.5

$$y = 1.7677\text{E-}005 * x + 3.7888\text{E-}004$$

$$R = 0.9999$$

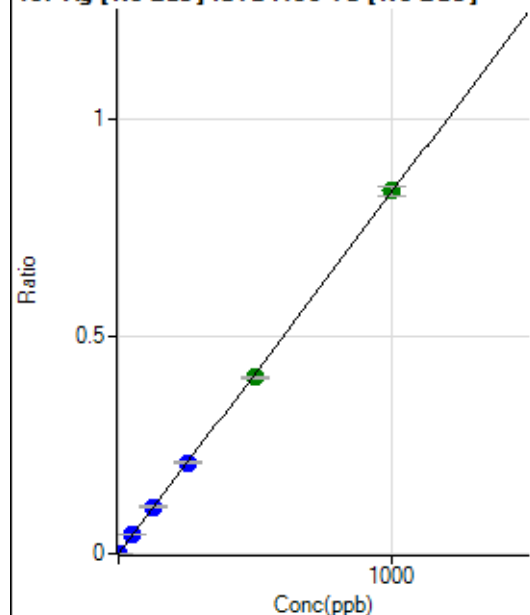
$$DL = 2.762$$

$$BEC = 21.43$$

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	44.45	0.0000	P	66.1
2	☐	1.000	0.997	3733.96	0.0008	P	8.0
3	☐	50.000	51.070	187752.94	0.0425	P	1.6
4	☐	125.000	130.325	485040.94	0.1084	P	1.9
5	☐	250.000	252.758	947988.89	0.2103	P	1.1
6	☐	500.000	488.123	1890385.42	0.4061	A	1.8
7	☐	1000.000	1004.530	3792487.76	0.8358	A	2.5
8	☐			2878.16	0.0006	P	10.7

$$y = 8.3203\text{E-}004 * x + 1.0012\text{E-}005$$

$$R = 0.9999$$

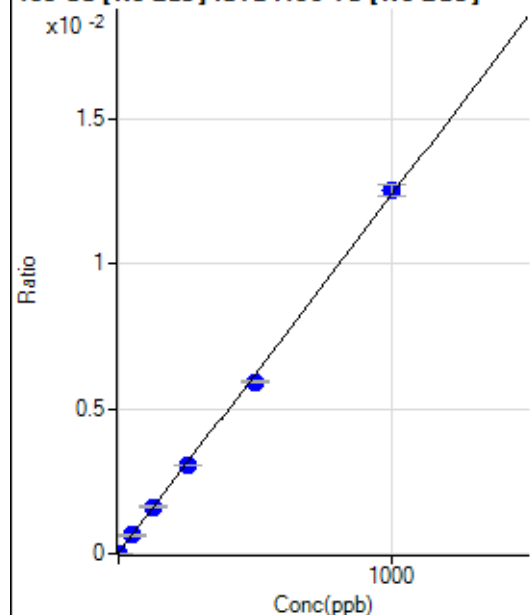
$$DL = 0.02386$$

$$BEC = 0.01203$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	90.28	0.0000	P	7.2
2	☐	1.000	0.297	106.95	0.0000	P	5.2
3	☐	50.000	49.529	2790.60	0.0006	P	2.2
4	☐	125.000	128.675	7192.24	0.0016	P	4.0
5	☐	250.000	244.458	13691.63	0.0030	P	0.4
6	☐	500.000	478.496	27579.03	0.0059	P	1.4
7	☐	1000.000	1011.702	56738.33	0.0125	P	3.2
8	☐			90.28	0.0000	P	16.7

$$y = 1.2341\text{E-}005 * x + 2.0373\text{E-}005$$

$$R = 0.9996$$

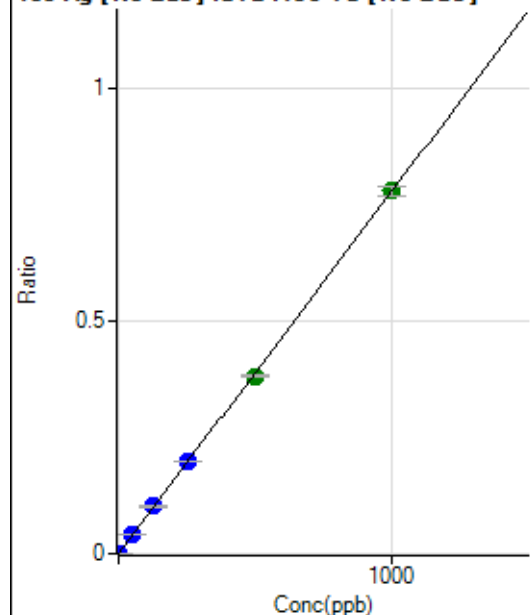
$$DL = 0.3541$$

$$BEC = 1.651$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	38.89	0.0000	P	49.4
2	☐	1.000	1.030	3603.34	0.0008	P	1.1
3	☐	50.000	52.488	180431.61	0.0408	P	1.0
4	☐	125.000	131.024	455888.17	0.1019	P	2.9
5	☐	250.000	256.929	900975.45	0.1999	P	0.5
6	☐	500.000	490.214	1774954.73	0.3814	A	1.4
7	☐	1000.000	1002.284	3538087.97	0.7797	A	2.8
8	☐			2583.64	0.0006	P	5.2

$$y = 7.7795\text{E-}004 * x + 8.7814\text{E-}006$$

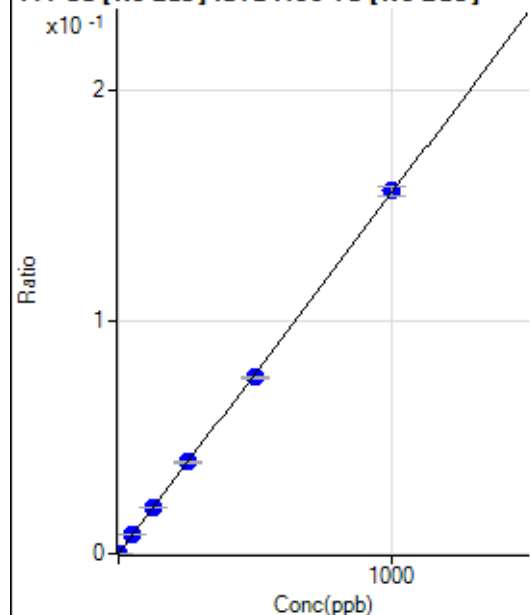
$$R = 0.9999$$

$$DL = 0.01673$$

$$BEC = 0.01129$$

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	147.65	0.0000	P	20.8
2	☐	1.000	1.292	1042.70	0.0002	P	6.4
3	☐	50.000	50.735	35007.87	0.0079	P	1.0
4	☐	125.000	127.306	88708.70	0.0198	P	2.0
5	☐	250.000	253.141	177614.31	0.0394	P	0.4
6	☐	500.000	487.407	352986.05	0.0758	P	1.3
7	☐	1000.000	1005.186	709497.50	0.1564	P	2.6
8	☐			692.12	0.0002	P	9.3

$$y = 1.5553\text{E-}004 * x + 3.3338\text{E-}005$$

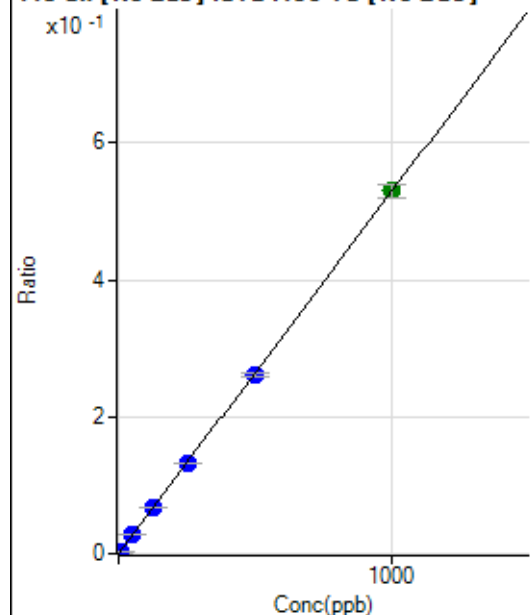
$$R = 0.9999$$

$$DL = 0.1336$$

$$BEC = 0.2144$$

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	280.57	0.0001	P	14.2
2	☐	5.000	4.881	11749.80	0.0026	P	3.4
3	☐	50.000	50.727	118665.12	0.0269	P	0.7
4	☐	125.000	127.615	301843.32	0.0675	P	0.8
5	☐	250.000	250.562	596847.30	0.1324	P	1.2
6	☐	500.000	493.711	1214142.04	0.2609	P	1.4
7	☐	1000.000	1002.642	2403133.89	0.5297	A	3.4
8	☐			1905.74	0.0004	P	6.9

$$y = 5.2826\text{E-}004 * x + 6.3516\text{E-}005$$

$$R = 1.0000$$

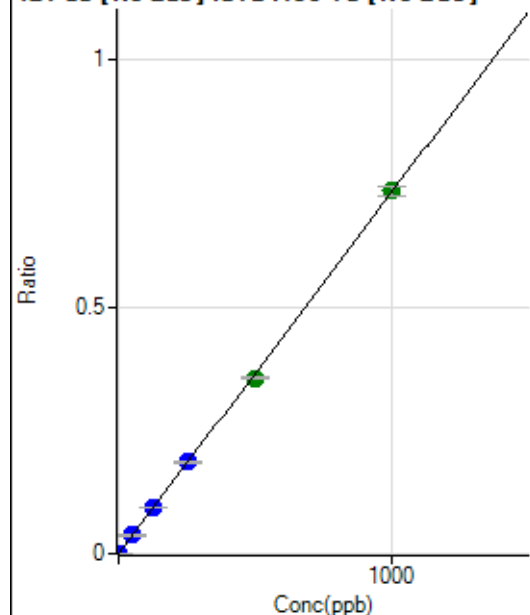
$$DL = 0.05115$$

$$BEC = 0.1202$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	100.00	0.0000	P	14.9
2	☐	2.000	1.987	6557.29	0.0015	P	2.0
3	☐	50.000	50.964	164612.93	0.0373	P	2.7
4	☐	125.000	129.433	423225.35	0.0946	P	0.6
5	☐	250.000	253.502	835116.71	0.1853	P	0.7
6	☐	500.000	487.063	1656694.63	0.3560	A	1.5
7	☐	1000.000	1004.991	3332219.52	0.7345	A	2.9
8	☐			3578.36	0.0008	P	2.2

$$y = 7.3078\text{E-}004 * x + 2.2609\text{E-}005$$

$$R = 0.9999$$

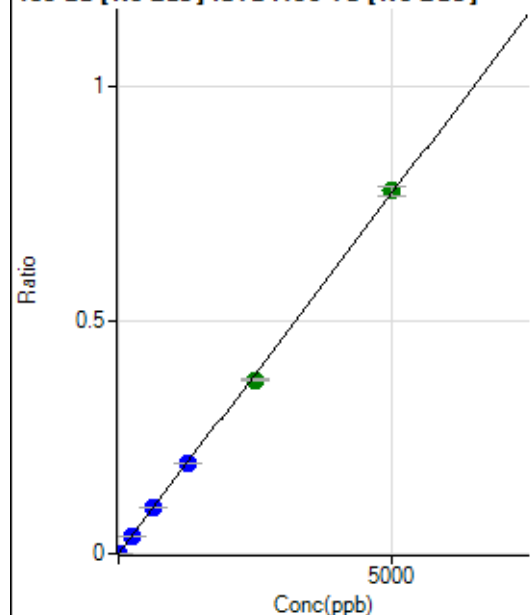
$$DL = 0.01384$$

$$BEC = 0.03094$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	30.55	0.0000	P	17.8
2	☐	10.000	9.810	6760.19	0.0015	P	3.5
3	☐	250.000	251.915	171696.89	0.0389	P	1.1
4	☐	625.000	639.415	441144.38	0.0986	P	2.5
5	☐	1250.000	1250.562	869476.28	0.1929	P	0.8
6	☐	2500.000	2412.162	1731710.67	0.3721	A	1.6
7	☐	5000.000	5041.881	3528978.94	0.7777	A	2.5
8	☐			2283.59	0.0005	P	9.2

$$y = 1.5425\text{E-}004 * x + 6.9218\text{E-}006$$

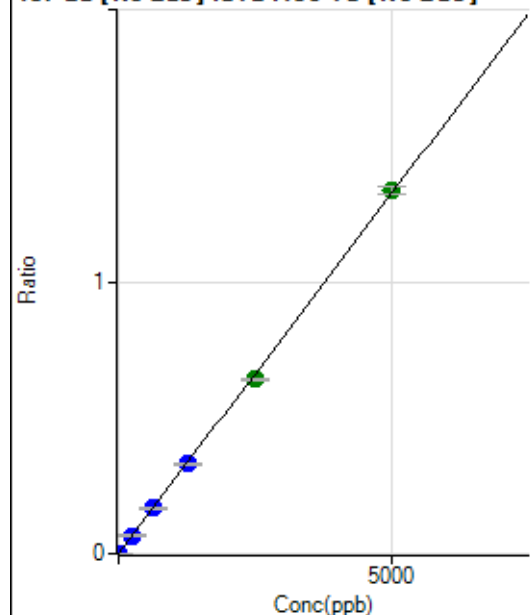
$$R = 0.9998$$

$$DL = 0.0239$$

$$BEC = 0.04487$$

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	52.78	0.0000	P	49.1
2	☐	10.000	10.398	12294.80	0.0028	P	2.7
3	☐	250.000	252.170	294955.73	0.0668	P	1.8
4	☐	625.000	635.531	752476.11	0.1683	P	3.1
5	☐	1250.000	1247.675	1488702.82	0.3303	P	1.5
6	☐	2500.000	2420.341	2982216.65	0.6408	A	1.2
7	☐	5000.000	5038.985	6053435.33	1.3340	A	2.2
8	☐			4072.96	0.0009	P	11.2

$$y = 2.6473E-004 * x + 1.1997E-005$$

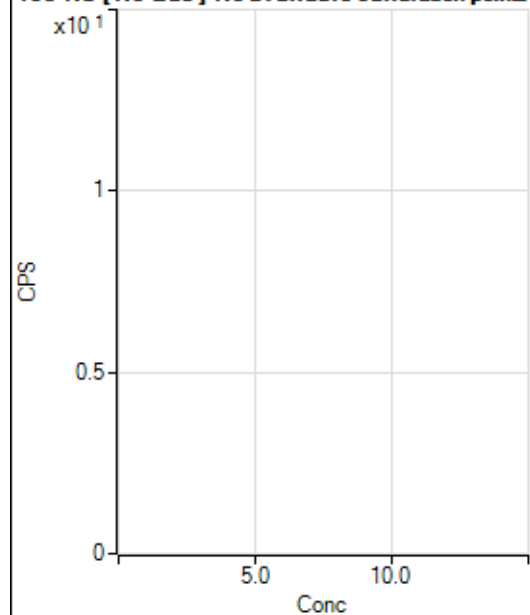
$$R = 0.9998$$

$$DL = 0.06678$$

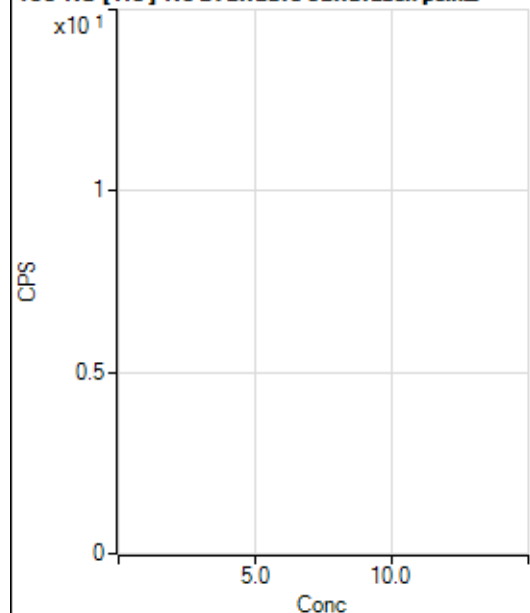
$$BEC = 0.04532$$

Weight: <None>

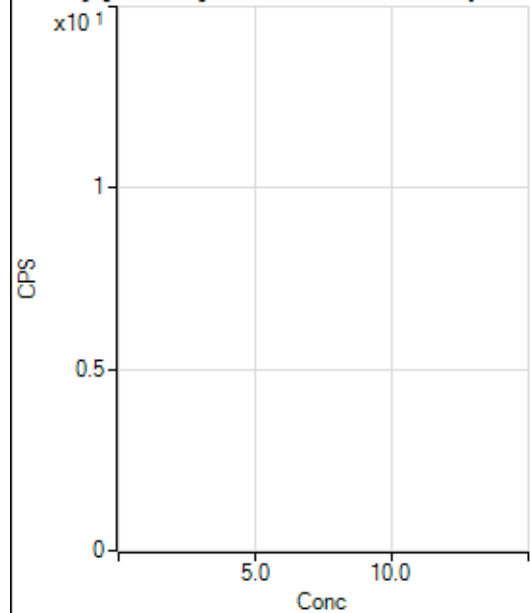
Min Conc: 0

150 Nd [No Gas] No available calibration points

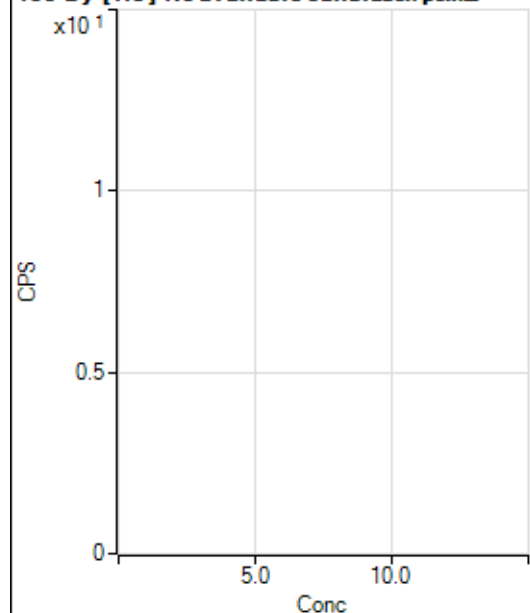
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐			6.67		P	100.
2	☐			6.67		P	0.0
3	☐			8.89		P	114.
4	☐			22.22		P	34.7
5	☐			44.44		P	60.6
6	☐			86.67		P	7.7
7	☐			177.78		P	27.6
8	☐			40.00		P	44.1

150 Nd [He] No available calibration points

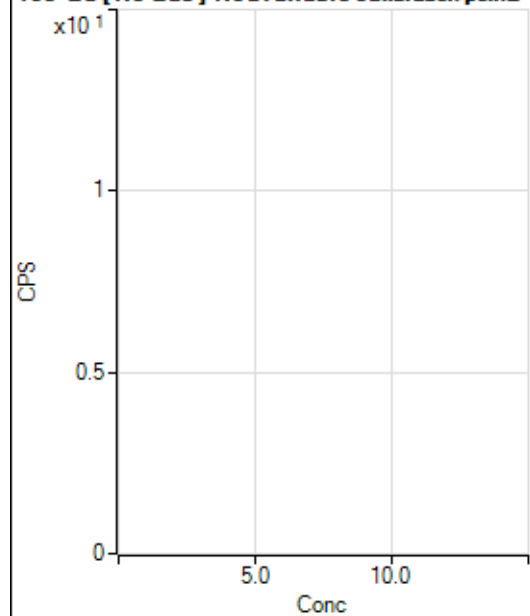
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			0.00		P	
3	☐			0.00		P	
4	☐			1.11		P	173.
5	☐			3.33		P	173.
6	☐			8.89		P	43.3
7	☐			13.34		P	86.6
8	☐			5.56		P	91.6

156 Dy [No Gas] No available calibration points

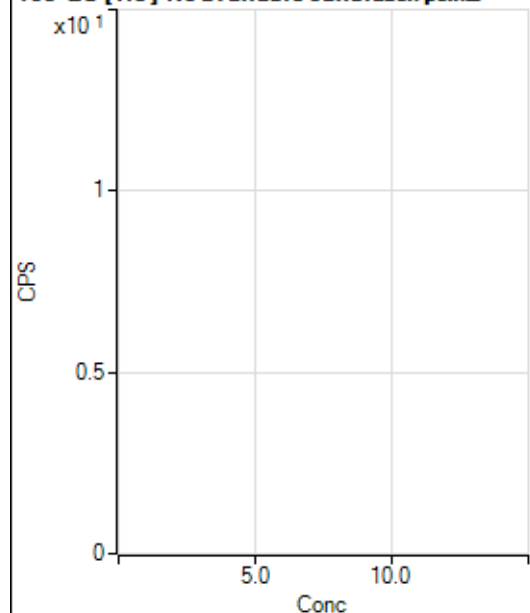
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.78		P	173.
2	☐			13.89		P	69.3
3	☐			16.67		P	100.
4	☐			19.44		P	65.5
5	☐			66.67		P	25.0
6	☐			58.34		P	28.6
7	☐			80.56		P	72.7
8	☐			716.71		P	10.5

156 Dy [He] No available calibration points

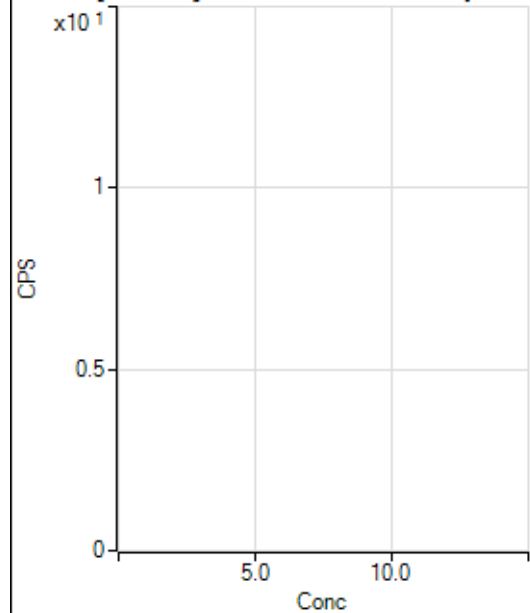
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	173.
2	☐			7.78		P	49.5
3	☐			7.78		P	107.
4	☐			4.44		P	43.4
5	☐			13.33		P	43.3
6	☐			17.78		P	75.8
7	☐			36.67		P	24.0
8	☐			394.45		P	7.6

160 Gd [No Gas] Noavailable calibration poin_

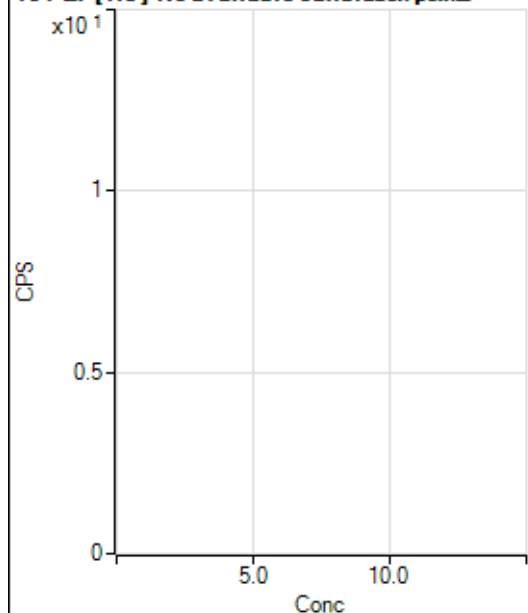
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			44.44		P	28.6
2	☐			25.00		P	57.7
3	☐			27.78		P	62.5
4	☐			38.89		P	44.6
5	☐			27.78		P	62.5
6	☐			33.33		P	50.0
7	☐			80.56		P	21.5
8	☐			797.27		P	14.1

160 Gd [He] No available calibration points

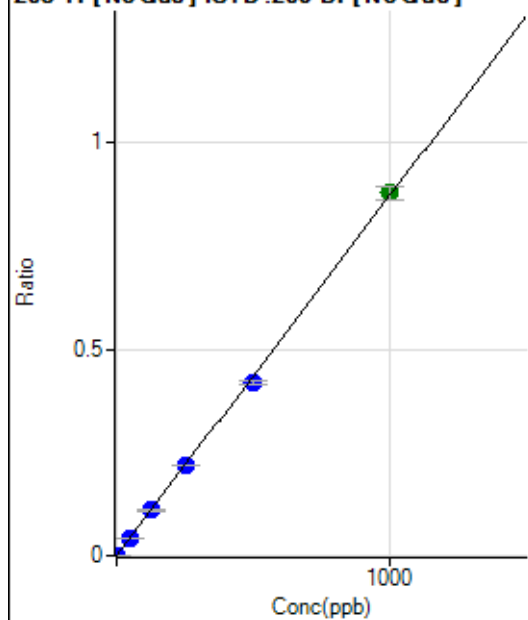
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.89		P	21.6
2	☐			11.11		P	45.8
3	☐			14.44		P	35.3
4	☐			15.55		P	68.9
5	☐			16.66		P	34.6
6	☐			28.89		P	13.3
7	☐			54.45		P	12.7
8	☐			446.68		P	7.2

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			22.22		P	57.3
2	☐			27.78		P	69.3
3	☐			19.45		P	24.7
4	☐			36.11		P	58.1
5	☐			36.11		P	48.0
6	☐			22.22		P	86.6
7	☐			61.11		P	20.8
8	☐			161.12		P	23.3

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			12.22		P	41.7
2	☐			5.56		P	34.7
3	☐			5.55		P	124.
4	☐			10.00		P	88.2
5	☐			15.55		P	44.6
6	☐			18.89		P	20.4
7	☐			25.56		P	19.9
8	☐			48.89		P	34.3

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	152.78	0.0001	P	11.5
2	☐	1.000	0.898	2044.67	0.0008	P	7.1
3	☐	50.000	48.456	101266.12	0.0423	P	3.0
4	☐	125.000	125.717	263158.09	0.1096	P	3.9
5	☐	250.000	249.417	522091.21	0.2175	P	0.7
6	☐	500.000	483.070	1057684.95	0.4211	P	2.3
7	☐	1000.000	1008.599	2102509.85	0.8792	A	3.5
8	☐			1994.65	0.0008	P	6.1

$$y = 8.7167E-004 * x + 6.4867E-005$$

$$R = 0.9998$$

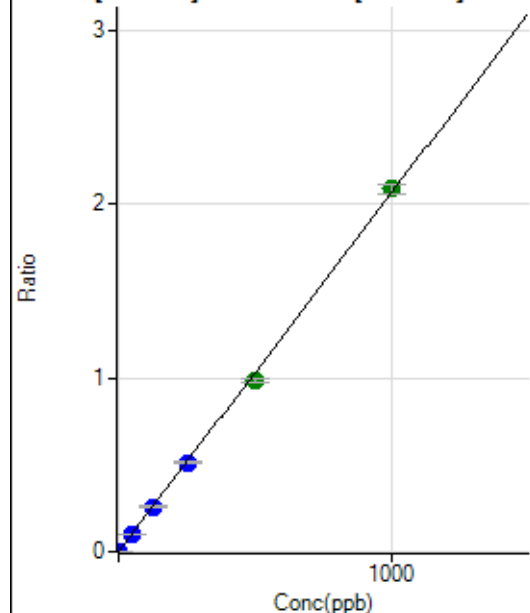
$$DL = 0.02561$$

$$BEC = 0.07442$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	361.13	0.0002	P	15.4
2	☐	1.000	0.947	5090.04	0.0021	P	4.9
3	☐	50.000	49.107	243352.60	0.1016	P	2.1
4	☐	125.000	125.159	621153.07	0.2588	P	3.9
5	☐	250.000	248.286	1232110.04	0.5133	P	1.3
6	☐	500.000	478.330	2483134.93	0.9887	A	2.4
7	☐	1000.000	1011.288	4999429.45	2.0901	A	2.5
8	☐			5304.01	0.0022	P	8.9

$$y = 0.0021 * x + 1.5332E-004$$

$$R = 0.9997$$

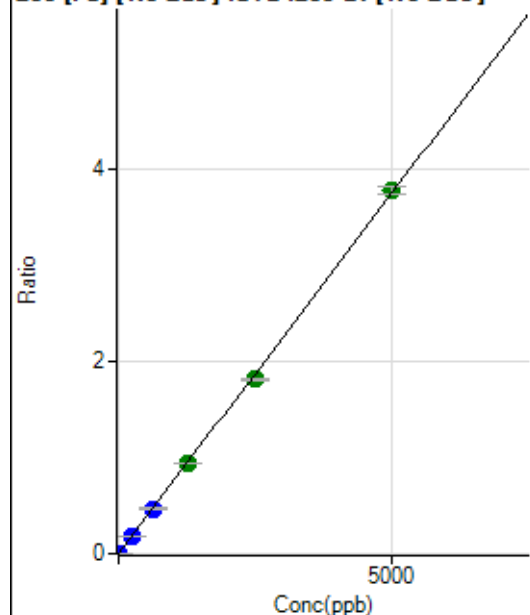
$$DL = 0.03435$$

$$BEC = 0.07419$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	196.30	0.0001	P	5.0
2	☐	1.000	0.868	1766.82	0.0007	P	2.7
3	☐	250.000	241.971	432996.64	0.1809	P	3.4
4	☐	625.000	619.037	1110380.31	0.4627	P	4.0
5	☐	1250.000	1246.945	2237242.73	0.9319	A	0.5
6	☐	2500.000	2424.954	4551777.01	1.8121	A	1.3
7	☐	5000.000	5039.434	9007567.62	3.7658	A	2.1
8	☐			12608.22	0.0053	P	7.2

$$y = 7.4725E-004 * x + 8.3353E-005$$

$$R = 0.9998$$

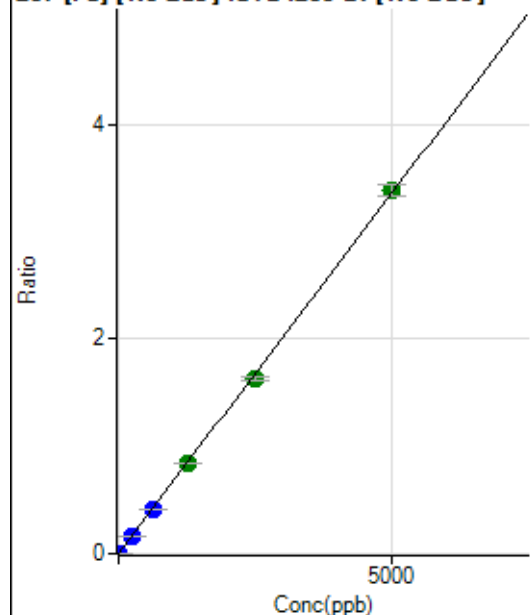
$$DL = 0.01661$$

$$BEC = 0.1115$$

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	200.01	0.0001	P	14.2
2	☐	1.000	0.855	1590.87	0.0007	P	0.9
3	☐	250.000	239.006	384423.27	0.1606	P	2.7
4	☐	625.000	612.510	987534.04	0.4114	P	3.1
5	☐	1250.000	1253.659	2020991.48	0.8420	A	1.7
6	☐	2500.000	2430.204	4099140.66	1.6320	A	1.6
7	☐	5000.000	5036.094	8088253.48	3.3820	A	3.2
8	☐			11169.79	0.0047	P	5.8

$$y = 6.7153\text{E-}004 * x + 8.4931\text{E-}005$$

$$R = 0.9999$$

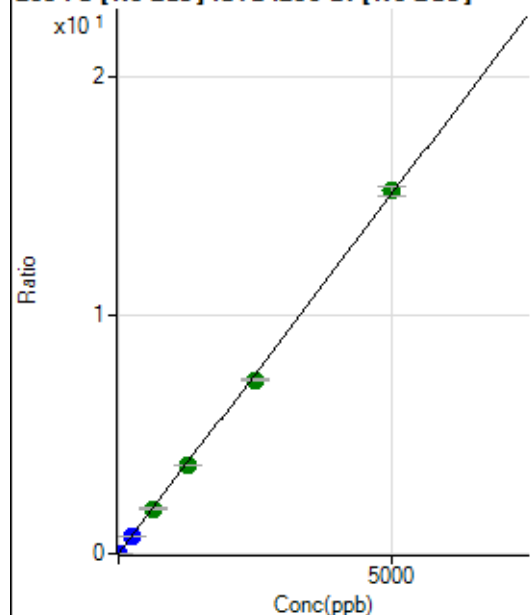
$$DL = 0.05388$$

$$BEC = 0.1265$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	850.03	0.0004	P	8.5
2	☐	1.000	0.883	7299.12	0.0030	P	0.2
3	☐	250.000	240.983	1740382.62	0.7270	P	2.5
4	☐	625.000	623.215	4511977.43	1.8795	A	2.6
5	☐	1250.000	1239.608	8973735.82	3.7381	A	0.5
6	☐	2500.000	2416.054	18298987.21	7.2853	A	1.4
7	☐	5000.000	5045.245	36384526.16	15.2129	A	2.6
8	☐			50309.10	0.0212	P	4.8

$$y = 0.0030 * x + 3.6074\text{E-}004$$

$$R = 0.9998$$

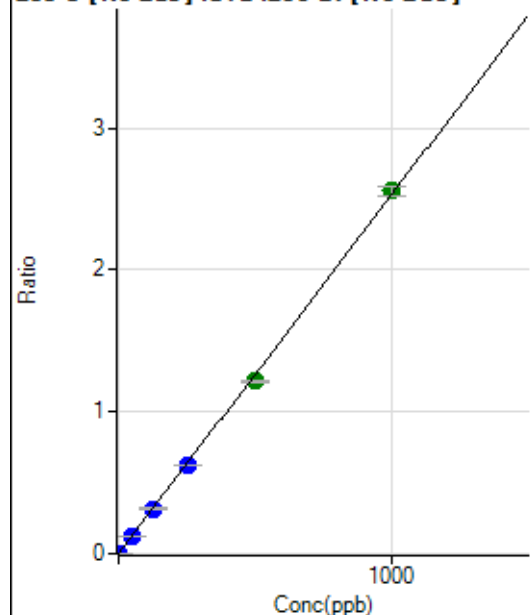
$$DL = 0.03035$$

$$BEC = 0.1196$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	94.45	0.0000	P	9.7
2	☐	1.000	0.948	5882.10	0.0024	P	4.5
3	☐	50.000	48.472	293576.48	0.1226	P	3.0
4	☐	125.000	123.528	749865.39	0.3125	P	4.5
5	☐	250.000	246.626	1497584.18	0.6238	P	0.6
6	☐	500.000	480.196	3050538.22	1.2146	A	1.7
7	☐	1000.000	1011.006	6115645.49	2.5571	A	2.7
8	☐			3236.62	0.0014	P	10.4

$$y = 0.0025 * x + 4.0082E-005$$

$$R = 0.9997$$

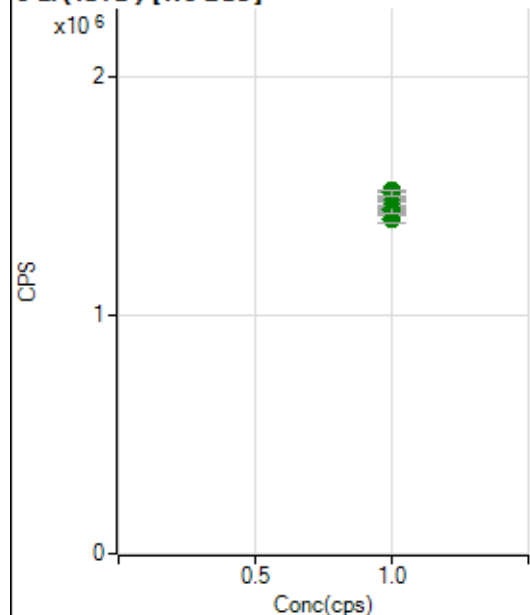
$$DL = 0.004612$$

$$BEC = 0.01585$$

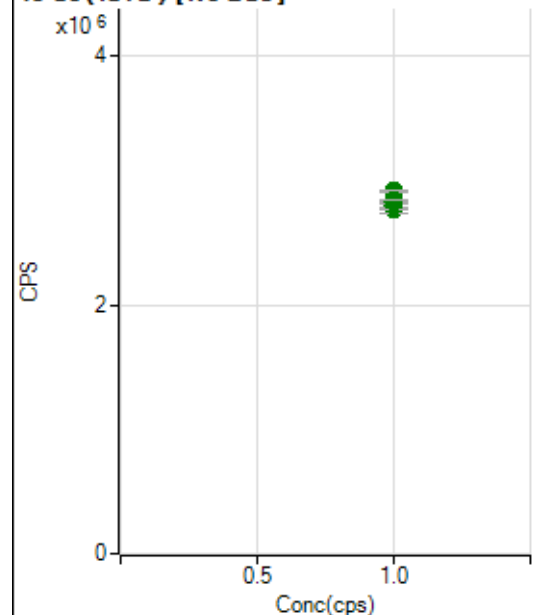
Weight: <None>

Min Conc: 0

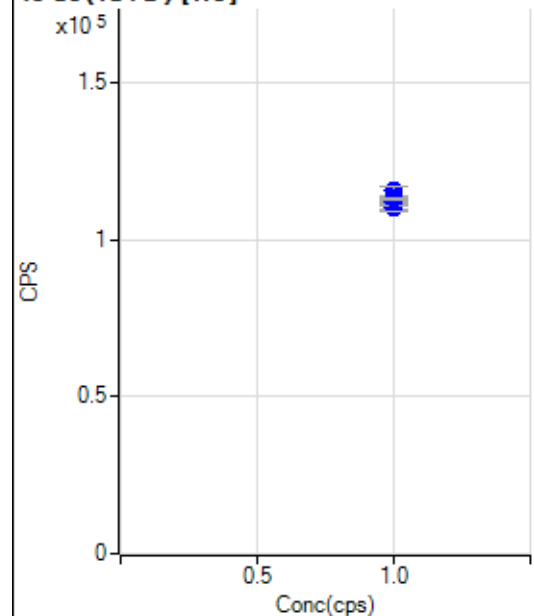
6 Li (ISTD) [No Gas]



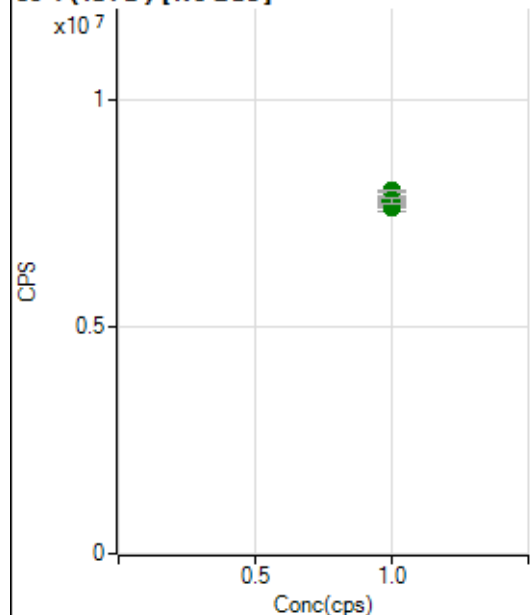
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1404583.89		A	2.4
2	☐	1.000		1451823.22		A	0.6
3	☐	1.000		1430351.10		A	1.1
4	☐	1.000		1446252.30		A	2.3
5	☐	1.000		1483826.13		A	0.6
6	☐	1.000		1523323.58		A	0.7
7	☐	1.000		1503460.86		A	1.8
8	☐	1.000		1516009.18		A	1.5

45 Sc (ISTD) [No Gas]

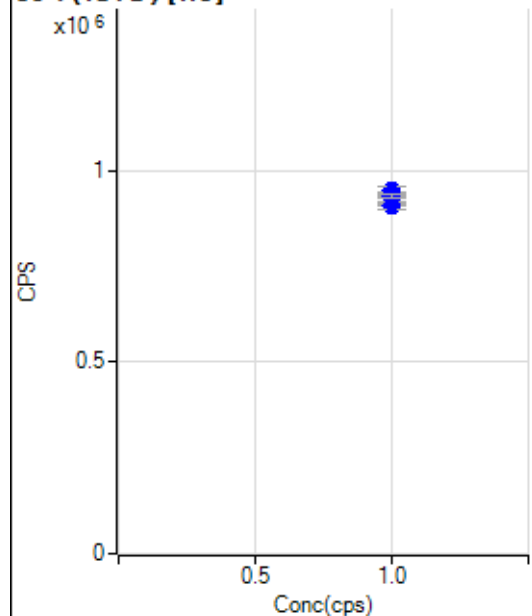
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2759916.02		A	1.8
2	☐	1.000		2795967.22		A	0.9
3	☐	1.000		2800939.96		A	1.3
4	☐	1.000		2794914.52		A	2.5
5	☐	1.000		2831348.98		A	0.7
6	☐	1.000		2916028.81		A	0.8
7	☐	1.000		2829963.85		A	1.0
8	☐	1.000		2843870.93		A	0.4

45 Sc (ISTD) [He]

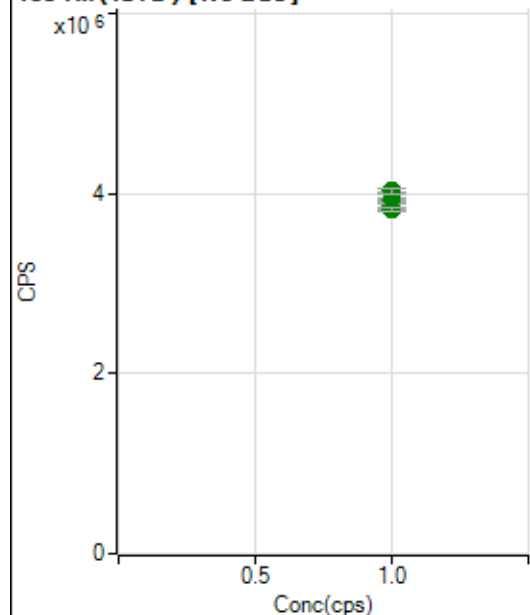
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		111853.15		P	0.7
2	☐	1.000		111930.94		P	4.2
3	☐	1.000		110292.55		P	1.7
4	☐	1.000		111920.41		P	1.3
5	☐	1.000		115612.99		P	2.6
6	☐	1.000		113185.50		P	0.8
7	☐	1.000		113269.78		P	0.8
8	☐	1.000		113143.13		P	0.5

89 Y (ISTD) [No Gas]

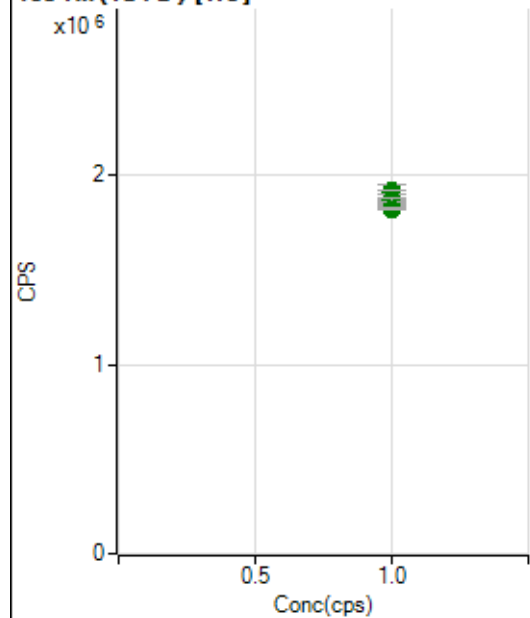
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7614367.60		A	1.4
2	☐	1.000		7804265.93		A	0.5
3	☐	1.000		7641500.58		A	0.4
4	☐	1.000		7716918.63		A	0.8
5	☐	1.000		7803746.34		A	1.2
6	☐	1.000		8001920.23		A	0.7
7	☐	1.000		7809050.44		A	2.5
8	☐	1.000		7781944.61		A	1.7

89 Y (ISTD) [He]

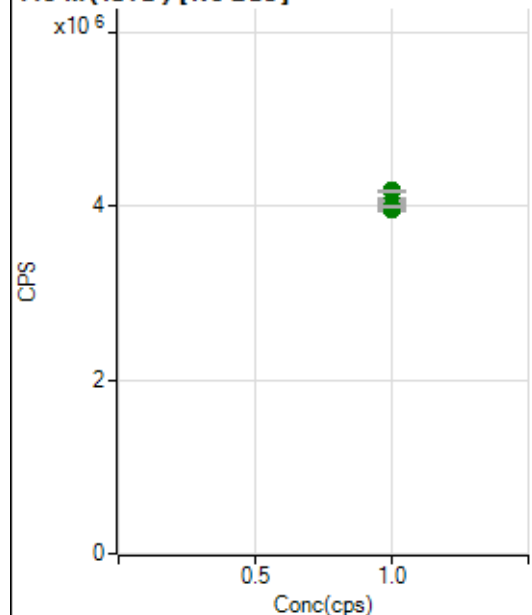
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		913185.29		P	0.5
2	☐	1.000		916017.58		P	3.7
3	☐	1.000		907018.28		P	2.0
4	☐	1.000		918761.71		P	0.3
5	☐	1.000		947613.74		P	2.8
6	☐	1.000		939487.14		P	0.4
7	☐	1.000		938974.99		P	0.6
8	☐	1.000		933931.14		P	1.1

103 Rh (ISTD) [No Gas]

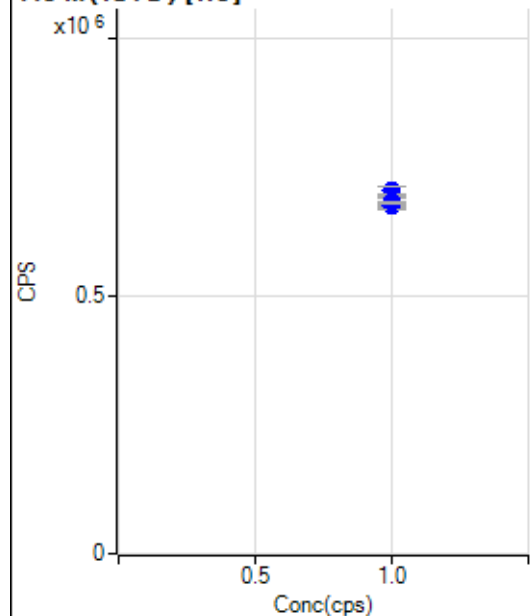
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3885905.16		A	2.0
2	☐	1.000		4008479.86		A	0.7
3	☐	1.000		3947309.77		A	0.4
4	☐	1.000		3932259.94		A	1.5
5	☐	1.000		3904002.65		A	0.6
6	☐	1.000		4031456.34		A	1.8
7	☐	1.000		3859060.24		A	1.8
8	☐	1.000		3821352.17		A	1.3

103 Rh (ISTD) [He]

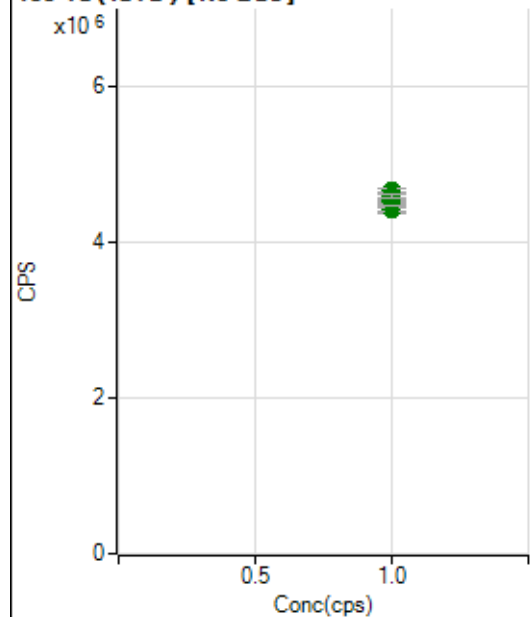
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1854686.01		A	1.2
2	☐	1.000		1851476.17		A	3.2
3	☐	1.000		1854999.40		A	1.8
4	☐	1.000		1847889.31		A	0.3
5	☐	1.000		1917011.41		A	3.6
6	☐	1.000		1910438.17		A	0.9
7	☐	1.000		1869522.47		A	1.2
8	☐	1.000		1823792.07		A	1.0

115 In (ISTD) [No Gas]

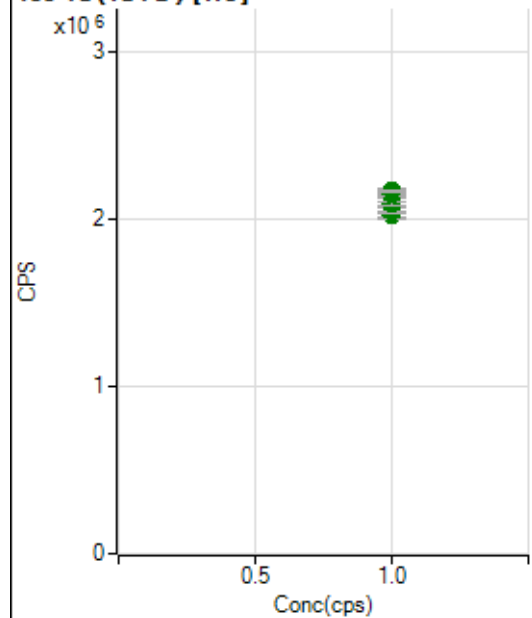
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3961064.68		A	0.8
2	☐	1.000		4054554.27		A	1.8
3	☐	1.000		3974166.37		A	0.9
4	☐	1.000		4044585.24		A	0.2
5	☐	1.000		4047488.36		A	1.0
6	☐	1.000		4174042.21		A	0.7
7	☐	1.000		4002966.21		A	2.0
8	☐	1.000		3991645.78		A	0.4

115 In (ISTD) [He]

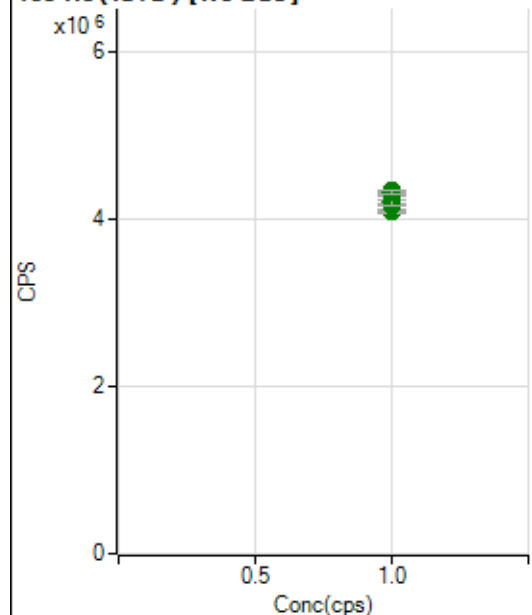
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		680317.86		P	1.2
2	☐	1.000		681438.21		P	3.1
3	☐	1.000		674842.65		P	1.7
4	☐	1.000		684533.59		P	0.0
5	☐	1.000		704652.94		P	2.8
6	☐	1.000		696376.17		P	0.6
7	☐	1.000		682339.42		P	0.7
8	☐	1.000		682608.66		P	0.5

159 Tb (ISTD) [No Gas]

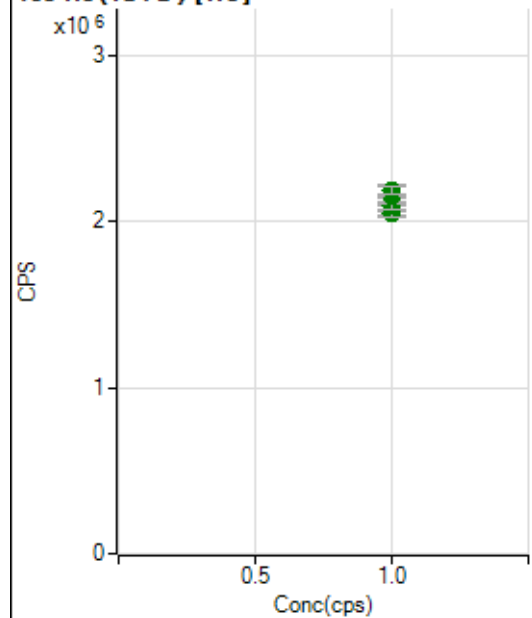
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4426120.77		A	2.4
2	☐	1.000		4447786.29		A	0.8
3	☐	1.000		4418109.66		A	1.2
4	☐	1.000		4473659.10		A	1.7
5	☐	1.000		4507626.11		A	1.6
6	☐	1.000		4654602.92		A	1.1
7	☐	1.000		4539640.80		A	3.0
8	☐	1.000		4589386.77		A	0.7

159 Tb (ISTD) [He]

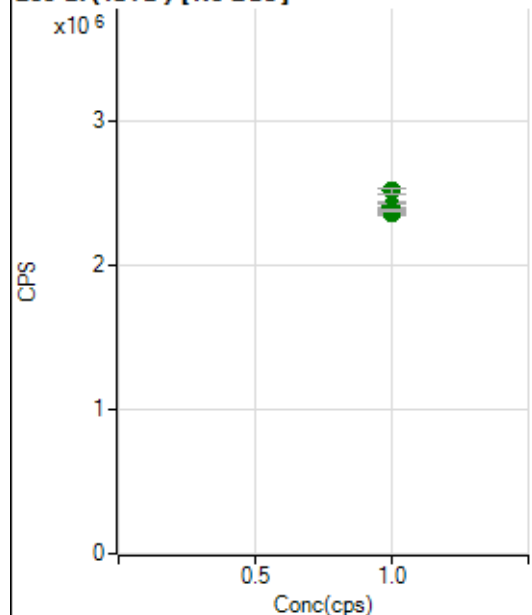
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2028474.17		A	1.2
2	☐	1.000		2037644.59		A	2.9
3	☐	1.000		2045546.57		A	0.6
4	☐	1.000		2090798.15		A	1.2
5	☐	1.000		2160480.28		A	2.8
6	☐	1.000		2163220.89		A	0.5
7	☐	1.000		2149623.75		A	1.3
8	☐	1.000		2171995.64		A	0.6

165 Ho (ISTD) [No Gas]

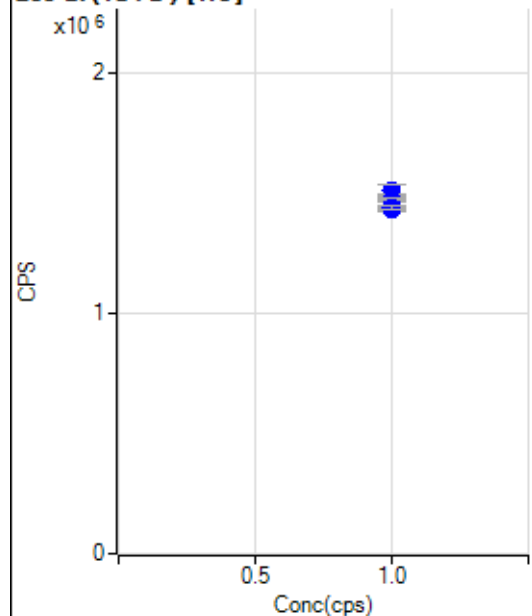
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4091223.31		A	0.8
2	☐	1.000		4196991.24		A	1.1
3	☐	1.000		4080962.72		A	0.8
4	☐	1.000		4150889.46		A	1.5
5	☐	1.000		4160263.59		A	0.4
6	☐	1.000		4333209.87		A	0.3
7	☐	1.000		4213824.27		A	2.2
8	☐	1.000		4320218.67		A	0.9

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2044188.77		A	1.9
2	☐	1.000		2066575.68		A	3.2
3	☐	1.000		2043968.89		A	2.3
4	☐	1.000		2088764.73		A	1.5
5	☐	1.000		2166983.06		A	4.6
6	☐	1.000		2150730.73		A	0.5
7	☐	1.000		2161902.66		A	0.4
8	☐	1.000		2182843.37		A	2.1

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2355539.15		A	0.7
2	☐	1.000		2413465.57		A	1.1
3	☐	1.000		2395217.57		A	3.1
4	☐	1.000		2401863.75		A	3.0
5	☐	1.000		2400771.15		A	1.5
6	☐	1.000		2512176.46		A	1.9
7	☐	1.000		2392749.67		A	2.7
8	☐	1.000		2374689.86		A	0.7

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1429825.66		P	0.8
2	☐	1.000		1443166.65		P	2.7
3	☐	1.000		1433815.07		P	2.0
4	☐	1.000		1464986.46		P	0.6
5	☐	1.000		1508414.30		P	3.2
6	☐	1.000		1492986.30		P	0.2
7	☐	1.000		1474929.82		P	0.9
8	☐	1.000		1439425.24		P	1.2

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8010621 MS.b
Acq. Date-Time 2021-01-06 13:57:51
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		2915	29150.97			3.375	5.000
24		34217	342170.67			3.602	5.000
25		4554	45537.34			3.325	5.000
26		5245	52448.52			3.012	5.000
59		5785	57849.48			2.913	5.000
113		2669	26685.11			3.523	5.000
115		9380	93802.80			4.095	5.000
206		2923	29225.92			2.888	5.000
207		2453	24532.70			2.839	5.000
208		5942	59423.37			2.598	5.000
220		1	9.30			18.468	

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

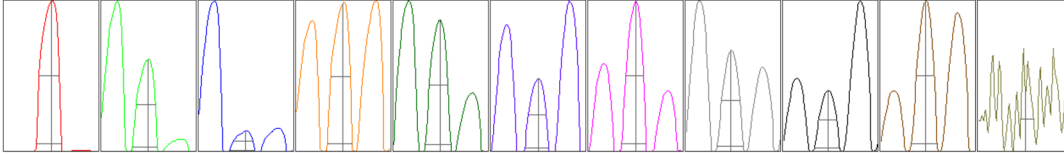
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	2954	2956	2990	2743	2933
24	34915	34538	34956	32035	34641
25	4620	4574	4643	4288	4643
26	5298	5327	5305	4963	5330
59	5820	5858	5880	5487	5880
113	2710	2711	2725	2501	2694
115	9693	9578	9578	8740	9313
206	2986	2950	2969	2776	2931
207	2480	2475	2498	2330	2485
208	6023	6003	6029	5668	5989

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	1	1

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	4902.63	9.05	8.90 - 9.10	
24	59314.64	24.00	23.90 - 24.10	
25	7822.85	25.00	24.90 - 25.10	
26	8901.03	26.00	25.90 - 26.10	
59	10442.03	59.00	58.90 - 59.10	
113	5020.59	113.05	112.90 - 113.10	
115	17795.62	115.05	114.90 - 115.10	
206	5312.57	205.95	205.90 - 206.10	
207	4442.33	206.95	206.90 - 207.10	
208	10937.02	207.95	207.90 - 208.10	
220	1.05	220.05	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.63	0.786	0.900	
24	0.61	0.786	0.900	
25	0.62	0.789	0.900	
26	0.63	0.787	0.900	
59	0.58	0.813	0.900	
113	0.55	0.737	0.900	
115	0.55	0.772	0.900	
206	0.58	0.826	0.900	
207	0.57	0.790	0.900	
208	0.57	0.809	0.900	
220	0.40			

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	11.0 V	Deflect	14.6 V
Extract 2	-230.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-115 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	180 V		

QP Parameters

Mass Gain	122	Axis Gain	0.9990	QP Bias	-4.0 V
Mass Offset	123	Axis Offset	0.00		

Hardware Settings

Torch

Torch H	0.6 mm	Torch V	-0.3 mm
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EM

Discriminator	3.9 mV	Analog HV	2183 V	Pulse HV	1350 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		1405	14047.60			3.544	
89		48108	481084.72			3.075	
205		2631	26311.06			3.388	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	1435	1436	1423	1413	1317
89	48851	48581	48995	48636	45479
205	2667	2683	2674	2658	2473

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	11.0 V	Deflect	4.0 V
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US EPA Tune Check Report

Extract 2	-230.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-115 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	122	Axis Gain	0.9990	QP Bias	-13.0 V
Mass Offset	123	Axis Offset	0.00		
Hardware Settings					
Torch					
Torch H	0.6 mm	Torch V	-0.3 mm		
EM					
Discriminator	3.9 mV	Analog HV	2183 V	Pulse HV	1350 V