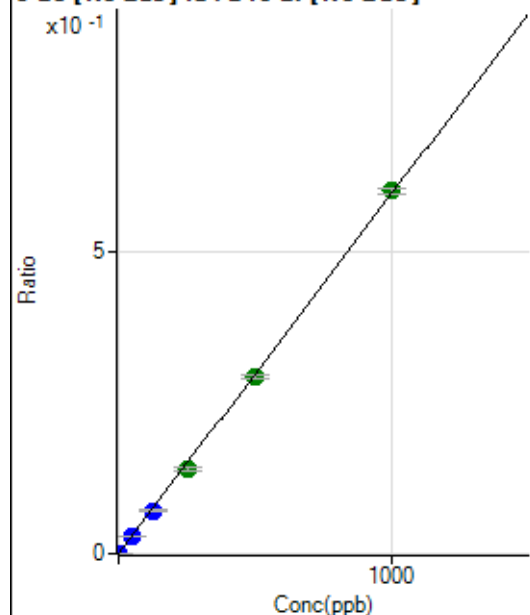


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8041022-MS.b\
Analysis File: P8041022-MS.batch.bin
DA Date-Time: 2022-04-11 11:31:23
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2022-04-10 12:40:15
2	006CALS.d	S02	2022-04-10 12:46:24
3	007CALS.d	S03	2022-04-10 12:49:27
4	008CALS.d	S04	2022-04-10 12:52:33
5	009CALS.d	S05	2022-04-10 12:55:36
6	010CALS.d	S06	2022-04-10 12:58:42
7	011CALS.d	S07	2022-04-10 13:01:45
8	012CALS.d	S08	2022-04-10 13:04:51

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	33.32	0.0000	P	29.3
2	☐	1.000	1.003	5143.90	0.0006	P	5.9
3	☐	50.000	47.188	253889.02	0.0282	P	2.7
4	☐	125.000	118.906	635680.72	0.0709	P	3.8
5	☐	250.000	236.203	1299798.63	0.1409	A	3.8
6	☐	500.000	491.735	2613669.12	0.2934	A	2.8
7	☐	1000.000	1008.484	5402098.28	0.6017	A	1.4
8	☐			561.23	0.0001	P	6.0

$$y = 5.9660\text{E-}004 * x + 3.6731\text{E-}006$$

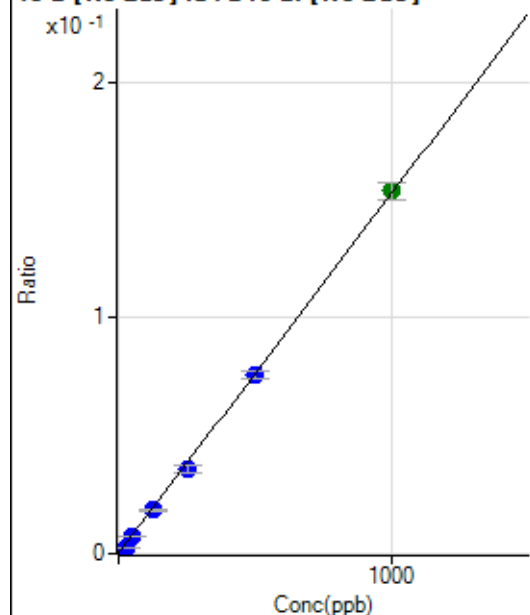
$$R = 0.9998$$

$$DL = 0.005408$$

$$BEC = 0.006157$$

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	1436.46	0.0002	P	4.1
2	☐	25.000	13.626	19158.26	0.0022	P	1.7
3	☐	50.000	47.782	67218.14	0.0075	P	3.1
4	☐	125.000	119.496	164900.17	0.0184	P	5.6
5	☐	250.000	233.298	329106.94	0.0358	P	10.1
6	☐	500.000	496.659	676901.57	0.0760	P	3.7
7	☐	1000.000	1006.929	1381604.32	0.1539	A	5.0
8	☐			113128.83	0.0136	P	5.3

$$y = 1.5264\text{E-}004 * x + 1.5803\text{E-}004$$

$$R = 0.9998$$

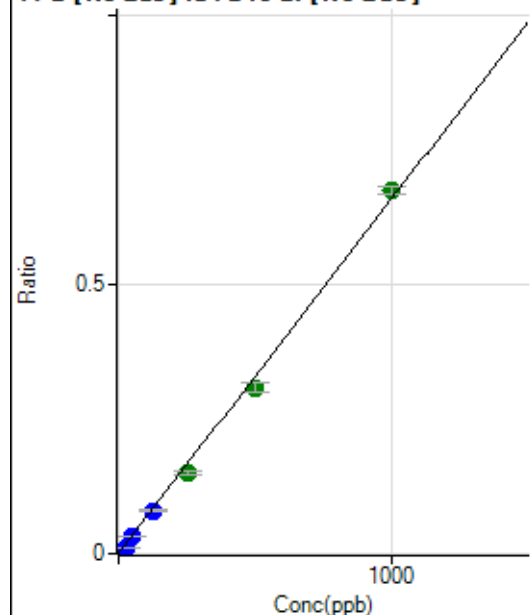
$$DL = 0.1276$$

$$BEC = 1.035$$

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	6252.80	0.0007	P	4.4
2	☐	25.000	14.333	86639.50	0.0101	P	2.6
3	☐	50.000	47.984	291126.18	0.0323	P	4.1
4	☐	125.000	120.884	719121.71	0.0803	P	5.7
5	☐	250.000	226.848	1383426.45	0.1500	A	5.2
6	☐	500.000	467.744	2751301.21	0.3086	A	5.7
7	☐	1000.000	1022.798	6049732.31	0.6740	A	2.0
8	☐			510807.67	0.0613	P	6.2

$$y = 6.5830E-004 * x + 6.8852E-004$$

$$R = 0.9990$$

$$DL = 0.1385$$

$$BEC = 1.046$$

Weight: <None>

Min Conc: 0

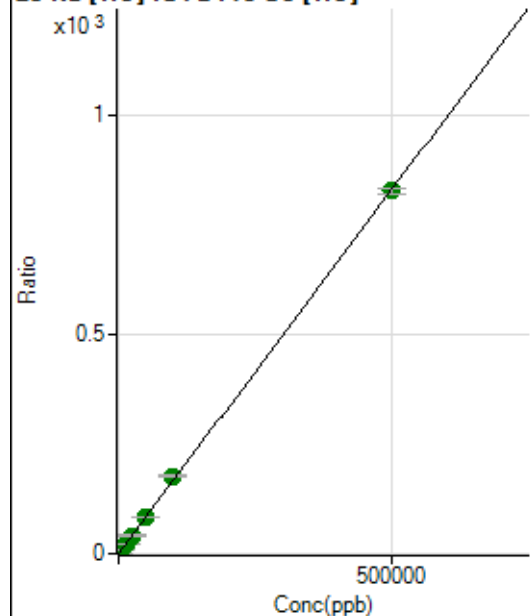
12 C [No Gas] No available calibration points



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			10498981.23		A	1.2
2	☐			10096860.29		A	0.4
3	☐			9377543.53		A	1.8
4	☐			9178787.79		A	1.9
5	☐			9190265.40		A	0.5
6	☐			9740801.43		A	1.6
7	☐			10751366.21		A	3.1
8	☐			9403950.04		A	2.6

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			101321.66		P	1.6
2	☐			96788.58		P	1.1
3	☐			90503.49		P	2.0
4	☐			89439.13		P	3.2
5	☐			90632.66		P	0.6
6	☐			98643.23		P	1.6
7	☐			116951.16		P	2.0
8	☐			107562.06		P	0.5

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	17160.50	0.0563	P	2.6
2	☐	500.000	458.028	253552.96	0.8165	P	1.9
3	☐	5000.000	4835.809	2472672.21	8.0827	A	2.8
4	☐	12500.000	12438.802	6370844.63	20.7020	A	1.6
5	☐	25000.000	25036.809	12578055.14	41.6120	A	1.5
6	☐	50000.000	50563.137	25995403.88	83.9801	A	0.5
7	☐	100000.00	106109.39	56946783.22	176.1749	A	2.2
8	☐	500000.00	498723.18	263428328.1	827.8287	A	1.5

$$y = 0.0017 * x + 0.0563$$

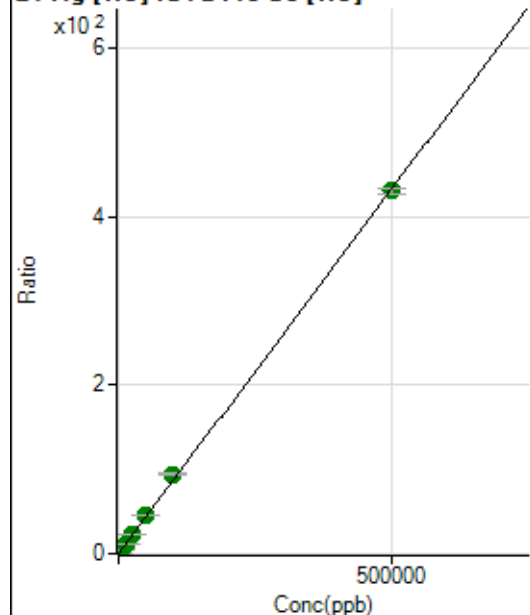
$$R = 0.9999$$

$$DL = 2.62$$

$$BEC = 33.9$$

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	394.46	0.0013	P	34.1
2	☐	500.000	490.599	132182.30	0.4257	P	1.3
3	☐	5000.000	5176.575	1370515.54	4.4793	A	1.7
4	☐	12500.000	12928.100	3441858.58	11.1847	A	0.9
5	☐	25000.000	25924.490	6777696.12	22.4273	A	2.6
6	☐	50000.000	52387.581	14028293.02	45.3191	A	1.1
7	☐	100000.00	109136.62	30514361.45	94.4098	A	1.5
8	☐	500000.00	497875.23	137055093.3	430.6878	A	1.7

$$y = 8.6505\text{E-}004 * x + 0.0013$$

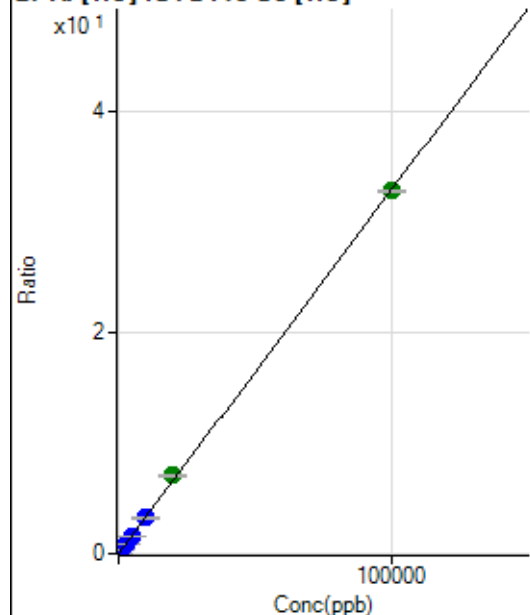
$$R = 0.9998$$

$$DL = 1.531$$

$$BEC = 1.498$$

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	329.13	0.0011	P	6.8
2	☐	20.000	16.617	2031.15	0.0065	P	1.5
3	☐	1000.000	980.218	98896.02	0.3232	P	1.3
4	☐	2500.000	2463.482	249463.36	0.8107	P	1.1
5	☐	5000.000	4962.012	493114.63	1.6318	P	2.1
6	☐	10000.000	9779.730	995215.81	3.2151	P	1.1
7	☐	20000.000	21502.278	2283860.43	7.0676	A	1.7
8	☐	100000.00	99724.582	10429418.42	32.7746	A	0.5

$$y = 3.2864\text{E-}004 * x + 0.0011$$

$$R = 0.9999$$

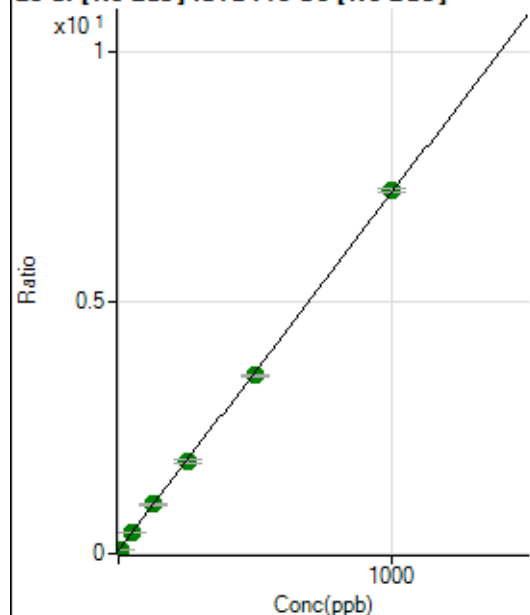
$$DL = 0.6704$$

$$BEC = 3.286$$

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	834219.98	0.0698	P	1.1
2	☐	10.000	0.929	915005.52	0.0764	A	3.5
3	☐	50.000	51.197	5205555.63	0.4341	A	2.1
4	☐	125.000	128.531	11969437.50	0.9845	A	5.2
5	☐	250.000	249.742	22639702.07	1.8471	A	3.2
6	☐	500.000	488.091	42945428.39	3.5434	A	1.8
7	☐	1000.000	1005.609	88560633.23	7.2265	A	0.9
8	☐			1186277.95	0.1026	A	3.1

$$y = 0.0071 * x + 0.0698$$

$$R = 0.9998$$

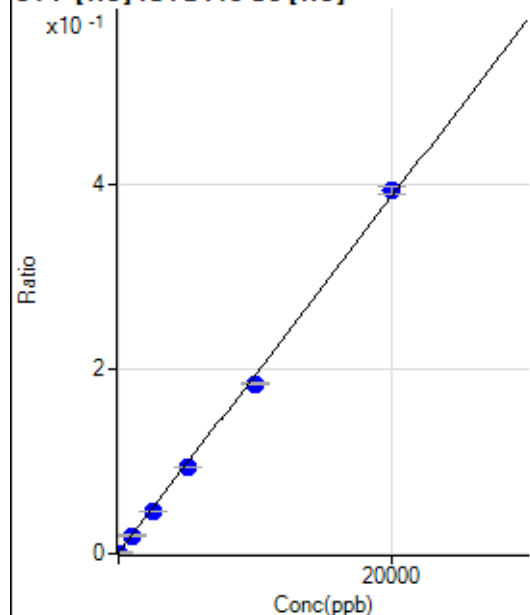
$$DL = 0.3296$$

$$BEC = 9.803$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-7.137	227.78	0.0007	P	14.8
2	☐	0.000	7.137	316.68	0.0010	P	26.5
3	☐	1000.000	975.255	6012.51	0.0197	P	8.0
4	☐	2500.000	2322.356	14029.38	0.0456	P	3.2
5	☐	5000.000	4778.293	28072.43	0.0929	P	0.7
6	☐	10000.000	9506.033	56924.76	0.1839	P	0.6
7	☐	20000.000	20325.853	126735.11	0.3922	P	2.3
8	☐			244.45	0.0008	P	18.1

$$y = 1.9252E-005 * x + 8.8456E-004$$

$$R = 0.9995$$

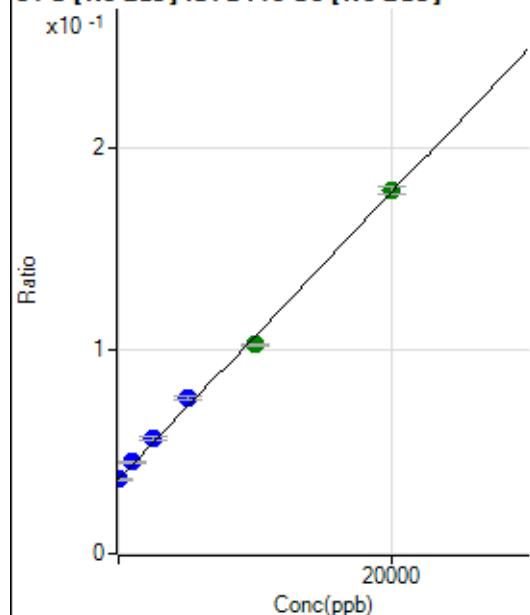
$$DL = 29.71$$

$$BEC = 45.95$$

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	2.853	438461.97	0.0367	P	1.5
2	☐	0.000	-2.853	438782.36	0.0366	P	2.7
3	☐	1000.000	1209.157	541883.62	0.0452	P	1.2
4	☐	2500.000	2864.343	692032.95	0.0569	P	2.3
5	☐	5000.000	5659.908	939337.29	0.0767	P	3.0
6	☐	10000.000	9372.969	1247361.86	0.1029	A	1.2
7	☐	20000.000	20092.538	2189786.81	0.1787	A	2.1
8	☐			385537.90	0.0333	P	0.9

$$y = 7.0708\text{E-}006 * x + 0.0366$$

R = 0.9986

DL = 328.9

BEC = 5183

Weight: <None>

Min Conc: 0

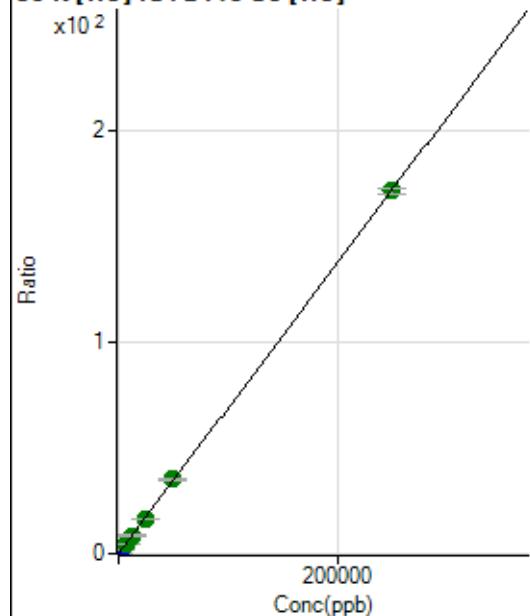
35 Cl [No Gas] No available calibration points



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			277095.19		P	0.8
2	☐			232491.15		P	1.8
3	☐			213412.72		P	1.2
4	☐			198996.92		P	0.9
5	☐			183342.33		P	0.4
6	☐			175159.95		P	1.1
7	☐			175970.12		P	1.0
8	☐			165490.72		P	2.4

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1605.69		P	12.5
2	☐			1558.47		P	4.3
3	☐			1305.65		P	4.7
4	☐			1225.08		P	12.6
5	☐			1119.52		P	5.3
6	☐			1194.53		P	12.9
7	☐			1122.29		P	4.1
8	☐			1022.29		P	13.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	18531.79	0.0608	P	1.1
2	☐	500.000	450.606	114802.65	0.3697	P	1.2
3	☐	2500.000	2422.048	526746.25	1.7214	P	0.2
4	☐	6250.000	6341.004	1356522.32	4.4083	A	1.6
5	☐	12500.000	12453.026	2598421.43	8.5987	A	2.3
6	☐	25000.000	23794.797	5068645.51	16.3748	A	3.1
7	☐	50000.000	51055.173	11332300.60	35.0649	A	1.9
8	☐	250000.00	249910.43	54546369.27	171.4027	A	1.4

$$y = 6.8561E-004 * x + 0.0608$$

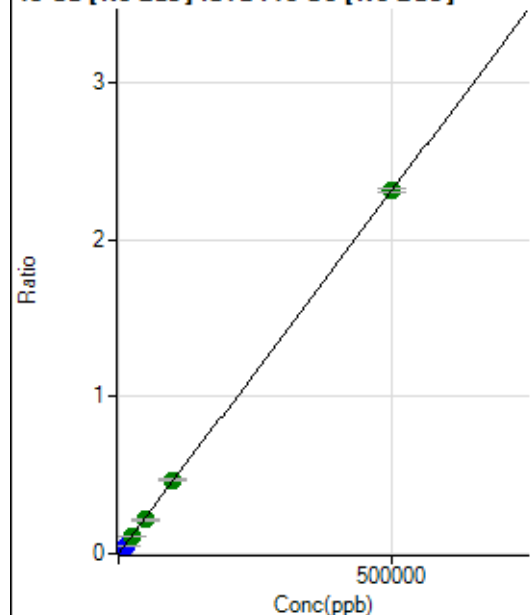
$$R = 1.0000$$

$$DL = 3.027$$

$$BEC = 88.65$$

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	298.72	0.0000	P	5.5
2	☐	500.000	445.568	24963.03	0.0021	P	1.3
3	☐	5000.000	4688.392	259953.17	0.0217	P	1.8
4	☐	12500.000	11609.449	652545.14	0.0537	P	2.5
5	☐	25000.000	23177.148	1312205.57	0.1071	A	2.1
6	☐	50000.000	46454.059	2601092.44	0.2146	A	1.6
7	☐	100000.00	101616.03	5751509.82	0.4694	A	3.2
8	☐	500000.00	500147.96	26713435.03	2.3103	A	0.9

$$y = 4.6193\text{E-}006 * x + 2.4979\text{E-}005$$

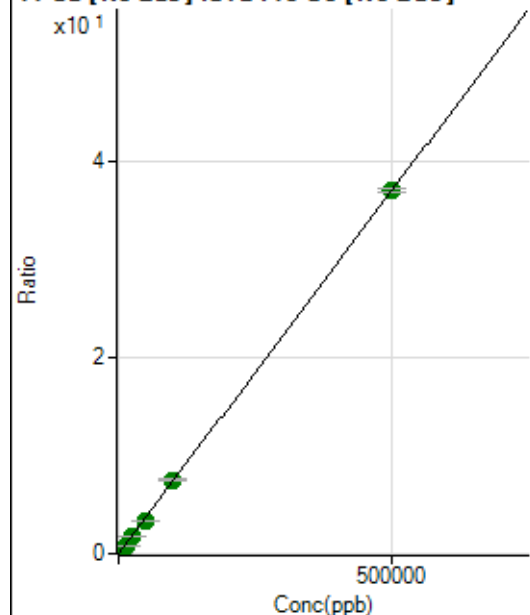
$$R = 1.0000$$

$$DL = 0.8877$$

$$BEC = 5.408$$

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	15865.23	0.0013	P	1.3
2	☐	500.000	449.434	414996.84	0.0346	P	1.8
3	☐	5000.000	4695.478	4188508.57	0.3493	A	0.3
4	☐	12500.000	11631.923	10503346.45	0.8634	A	0.6
5	☐	25000.000	22643.282	20585656.40	1.6794	A	0.7
6	☐	50000.000	46031.286	41360472.59	3.4126	A	0.7
7	☐	100000.00	101511.19	92187777.87	7.5242	A	2.0
8	☐	500000.00	500237.26	428623036.2	37.0732	A	1.1

$$y = 7.4108\text{E-}005 * x + 0.0013$$

$$R = 1.0000$$

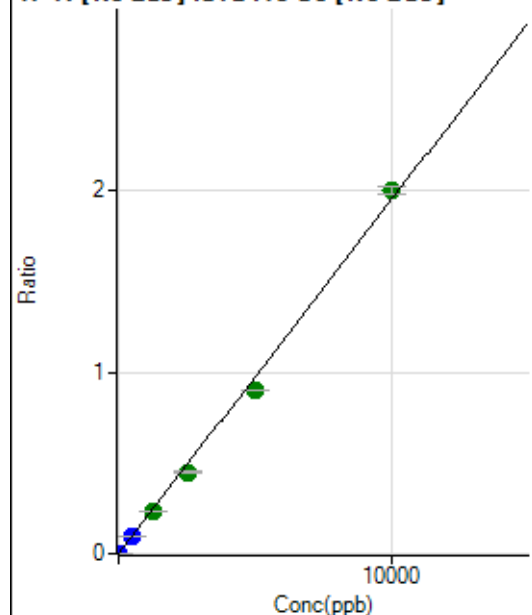
$$DL = 0.7023$$

$$BEC = 17.9$$

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	433.35	0.0000	P	12.5
2	☐	5.000	4.720	11460.39	0.0010	P	3.7
3	☐	500.000	482.276	1128292.04	0.0941	P	0.7
4	☐	1250.000	1204.170	2857310.42	0.2349	A	1.5
5	☐	2500.000	2304.315	5507307.76	0.4495	A	2.2
6	☐	5000.000	4614.339	10907849.63	0.9000	A	0.6
7	☐	10000.000	10248.367	24489660.10	1.9988	A	2.1
8	☐			4109.05	0.0004	P	2.2

$$y = 1.9504E-004 * x + 3.6237E-005$$

$$R = 0.9987$$

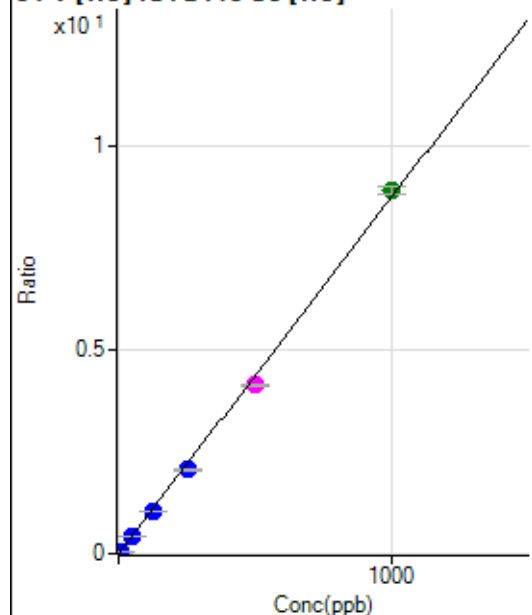
$$DL = 0.06995$$

$$BEC = 0.1858$$

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	5.56	0.0000	P	91.3
2	☐	5.000	4.576	12432.17	0.0400	P	0.5
3	☐	50.000	46.725	125021.46	0.4086	P	2.2
4	☐	125.000	118.413	318673.07	1.0356	P	0.2
5	☐	250.000	236.666	625456.06	2.0697	P	2.1
6	☐	500.000	472.745	1279738.53	4.1343	M	1.8
7	☐	1000.000	1017.950	2876522.32	8.9022	A	2.1
8	☐			533.35	0.0017	P	5.6

$$y = 0.0087 * x + 1.8241E-005$$

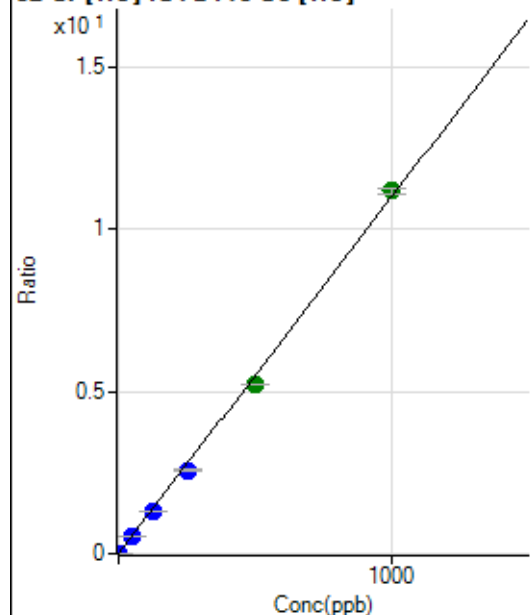
$$R = 0.9994$$

$$DL = 0.005713$$

$$BEC = 0.002086$$

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	1514.54	0.0050	P	6.5
2	☐	2.000	1.749	7513.17	0.0242	P	2.9
3	☐	50.000	46.656	158446.04	0.5179	P	2.7
4	☐	125.000	117.466	398937.20	1.2964	P	1.0
5	☐	250.000	233.001	775644.72	2.5667	P	1.8
6	☐	500.000	475.492	1619744.09	5.2327	A	0.6
7	☐	1000.000	1017.613	3617109.91	11.1930	A	1.5
8	☐			30685.21	0.0964	P	1.6

$$y = 0.0110 * x + 0.0050$$

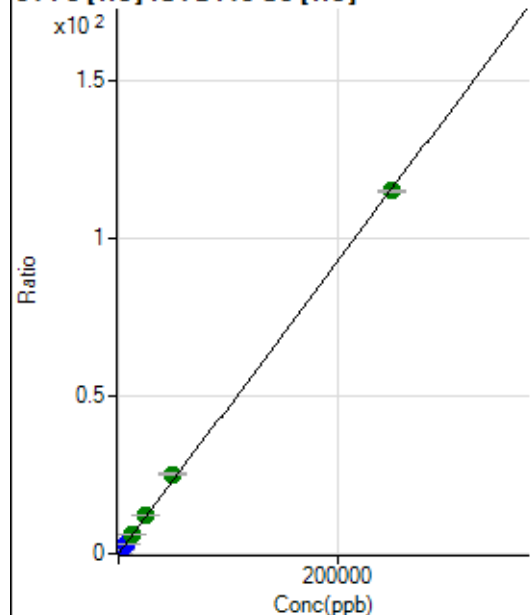
$$R = 0.9994$$

$$DL = 0.08871$$

$$BEC = 0.4519$$

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	750.03	0.0025	P	5.1
2	☐	50.000	48.900	7778.17	0.0251	P	5.6
3	☐	2500.000	2596.118	367831.58	1.2021	P	0.9
4	☐	6250.000	6503.250	925544.63	3.0076	P	0.3
5	☐	12500.000	13601.671	1900205.58	6.2878	A	1.8
6	☐	25000.000	25989.458	3718297.45	12.0122	A	0.7
7	☐	50000.000	54722.922	8173148.16	25.2900	A	1.4
8	☐	250000.00	248894.09	36597980.91	115.0168	A	0.6

$$y = 4.6210E-004 * x + 0.0025$$

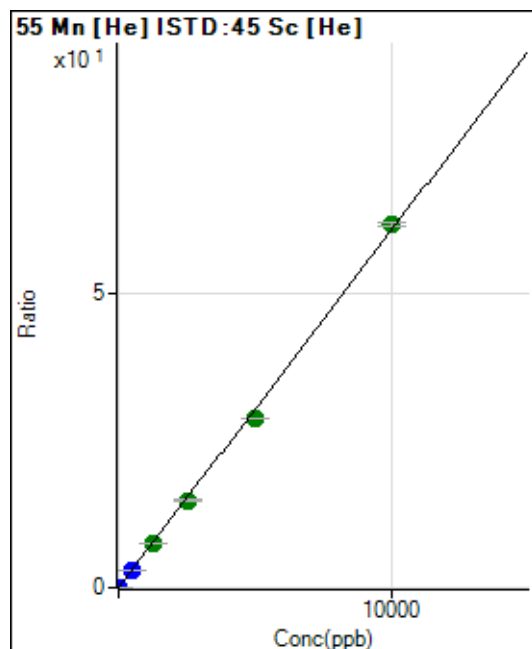
$$R = 0.9998$$

$$DL = 0.8126$$

$$BEC = 5.322$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	113.33	0.0004	P	40.1
2	☐	1.000	0.912	1837.92	0.0059	P	3.0
3	☐	500.000	477.463	888455.60	2.9040	P	2.3
4	☐	1250.000	1224.134	2290930.66	7.4448	A	0.9
5	☐	2500.000	2425.483	4457188.02	14.7507	A	2.6
6	☐	5000.000	4752.116	8945683.89	28.8998	A	0.3
7	☐	10000.000	10146.931	19943742.34	61.7078	A	1.1
8	☐			9439.87	0.0297	P	1.2

$$y = 0.0061 * x + 3.7228E-004$$

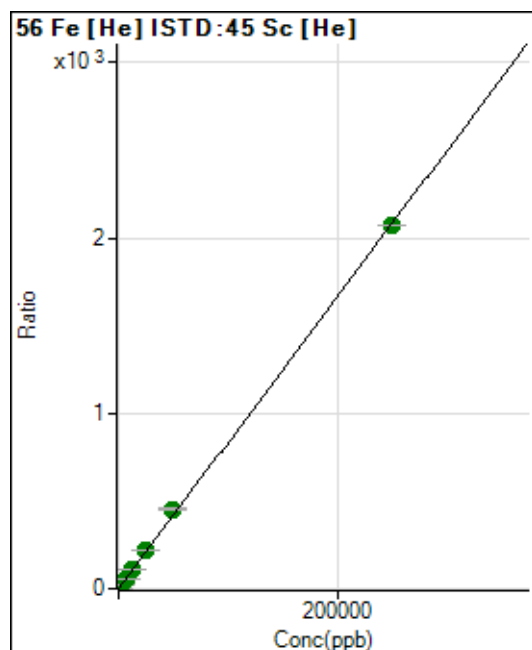
$$R = 0.9995$$

$$DL = 0.07365$$

$$BEC = 0.06122$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6442.32	0.0211	P	1.1
2	☐	50.000	49.309	133758.07	0.4307	P	0.3
3	☐	2500.000	2614.237	6650757.79	21.7365	A	1.7
4	☐	6250.000	6512.102	16652386.02	54.1145	A	1.2
5	☐	12500.000	13113.000	32918251.90	108.9455	A	3.0
6	☐	25000.000	25937.290	66698008.43	215.4717	A	0.4
7	☐	50000.000	54710.161	146861236.6	454.4763	A	2.3
8	☐	250000.00	248925.89	657972673.9	2.067.747	A	0.1

$$y = 0.0083 * x + 0.0211$$

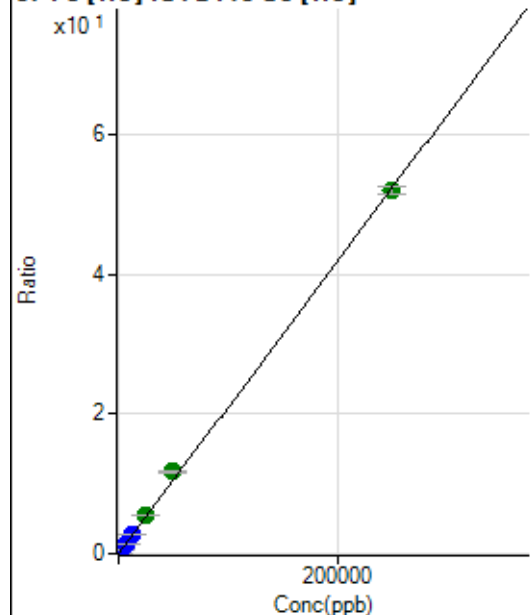
$$R = 0.9998$$

$$DL = 0.08388$$

$$BEC = 2.544$$

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	168.52	0.0006	P	28.0
2	☐	50.000	46.646	3200.41	0.0103	P	3.8
3	☐	2500.000	2583.103	165415.25	0.5406	P	1.5
4	☐	6250.000	6439.493	414508.68	1.3469	P	1.2
5	☐	12500.000	12791.385	808225.93	2.6750	P	3.1
6	☐	25000.000	25990.026	1682281.29	5.4346	A	1.9
7	☐	50000.000	56349.247	3807700.49	11.7822	A	1.2
8	☐	250000.00	248611.01	16539804.54	51.9806	A	1.9

$$y = 2.0908\text{E-}004 * x + 5.5332\text{E-}004$$

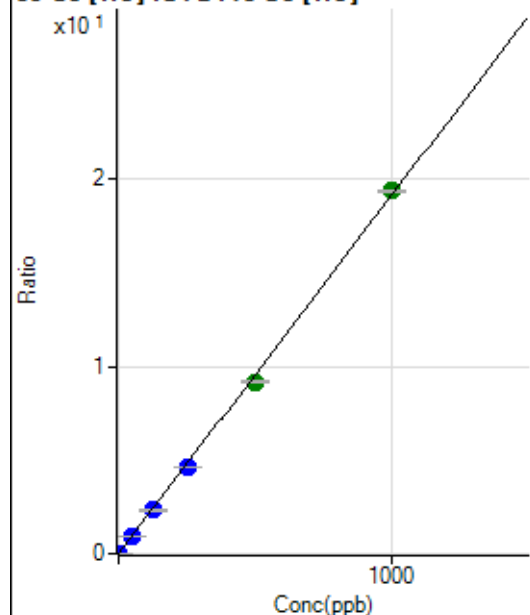
$$R = 0.9996$$

$$DL = 2.224$$

$$BEC = 2.646$$

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	91.11	0.0003	P	24.0
2	☐	1.000	0.920	5564.48	0.0179	P	2.3
3	☐	50.000	48.414	283850.91	0.9276	P	0.9
4	☐	125.000	121.103	713867.98	2.3199	P	1.5
5	☐	250.000	241.238	1396585.86	4.6209	P	1.5
6	☐	500.000	480.224	2847391.49	9.1985	A	1.7
7	☐	1000.000	1012.645	6269016.43	19.3964	A	0.4
8	☐			16025.80	0.0504	P	1.6

$$y = 0.0192 * x + 2.9908\text{E-}004$$

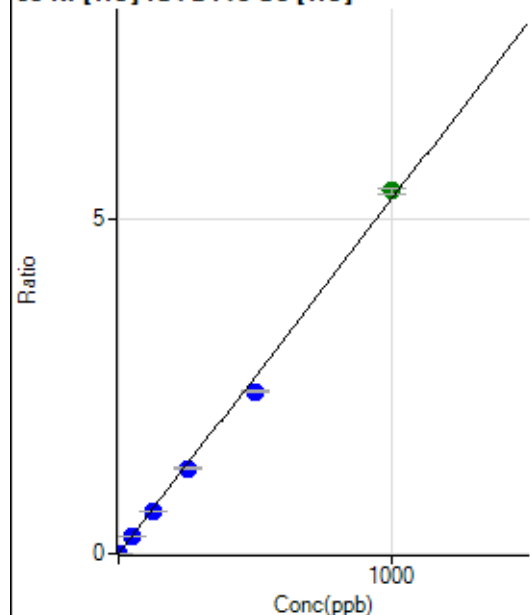
$$R = 0.9997$$

$$DL = 0.01125$$

$$BEC = 0.01561$$

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	80.00	0.0003	P	18.5
2	☐	1.000	0.933	1616.78	0.0052	P	3.5
3	☐	50.000	48.514	78754.72	0.2574	P	1.2
4	☐	125.000	118.961	194100.58	0.6308	P	0.6
5	☐	250.000	239.813	384187.85	1.2713	P	1.8
6	☐	500.000	458.335	752029.87	2.4295	P	0.8
7	☐	1000.000	1024.208	1754474.10	5.4286	A	1.9
8	☐			11415.80	0.0359	P	2.9

$$y = 0.0053 * x + 2.6219E-004$$

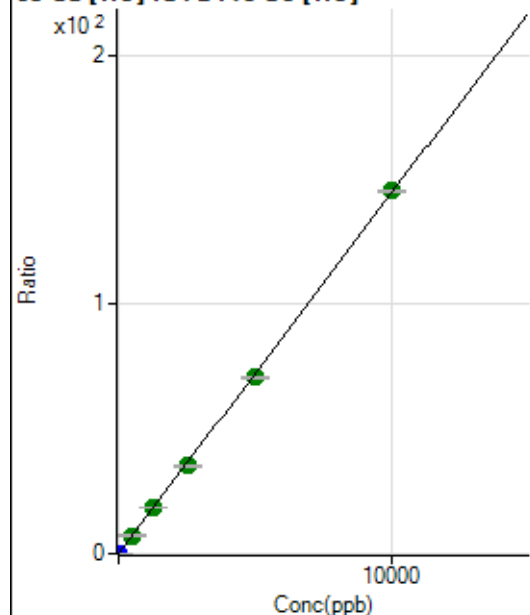
$$R = 0.9987$$

$$DL = 0.02746$$

$$BEC = 0.04947$$

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	821.15	0.0027	P	3.4
2	☐	2.000	1.951	9597.77	0.0309	P	2.0
3	☐	500.000	503.150	2227306.98	7.2801	A	2.3
4	☐	1250.000	1266.031	5635986.79	18.3143	A	0.7
5	☐	2500.000	2435.398	10646192.27	35.2277	A	1.7
6	☐	5000.000	4896.818	21924646.62	70.8292	A	1.3
7	☐	10000.000	10065.580	47052751.52	145.5890	A	0.8
8	☐			12392.16	0.0389	P	1.5

$$y = 0.0145 * x + 0.0027$$

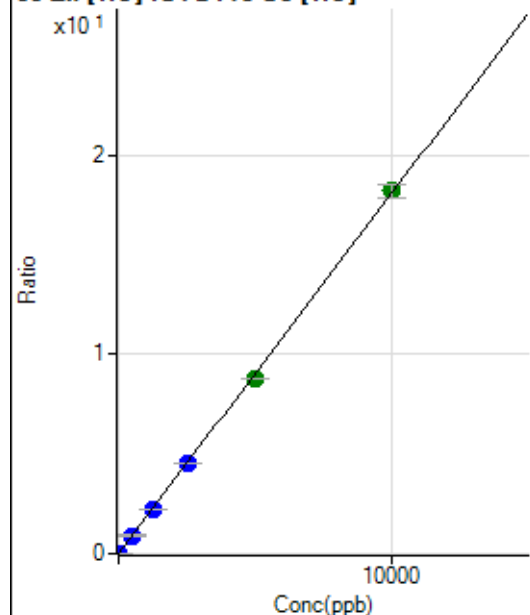
$$R = 0.9999$$

$$DL = 0.01926$$

$$BEC = 0.1862$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	187.78	0.0006	P	7.3
2	☐	2.000	2.171	1411.19	0.0045	P	3.3
3	☐	500.000	503.675	279113.10	0.9123	P	1.8
4	☐	1250.000	1236.870	689095.98	2.2393	P	0.5
5	☐	2500.000	2505.961	1370914.72	4.5364	P	1.7
6	☐	5000.000	4861.067	2723697.98	8.7990	A	0.8
7	☐	10000.000	10069.434	5888311.51	18.2261	A	3.5
8	☐			5855.70	0.0184	P	2.5

$$y = 0.0018 * x + 6.1566E-004$$

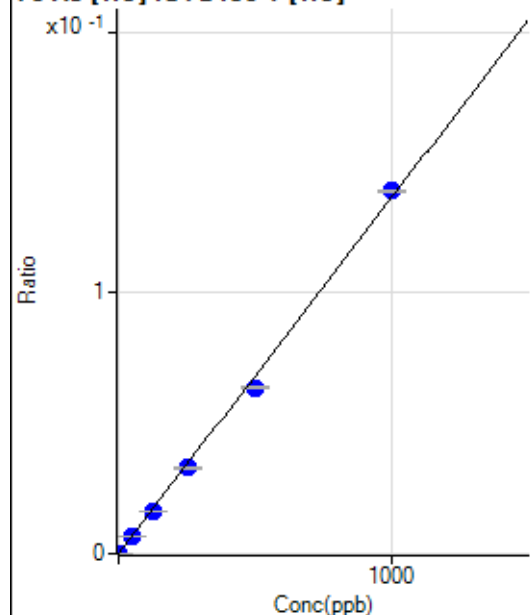
$$R = 0.9999$$

$$DL = 0.07496$$

$$BEC = 0.3401$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	8.67	0.0000	P	35.0
2	☐	1.000	0.975	320.04	0.0001	P	2.5
3	☐	50.000	49.059	15585.48	0.0067	P	2.5
4	☐	125.000	119.804	38537.84	0.0164	P	1.1
5	☐	250.000	241.504	75829.81	0.0330	P	3.0
6	☐	500.000	466.901	153151.84	0.0637	P	1.3
7	☐	1000.000	1019.370	342209.08	0.1392	P	0.8
8	☐			135.35	0.0001	P	22.4

$$y = 1.3652E-004 * x + 3.7941E-006$$

$$R = 0.9992$$

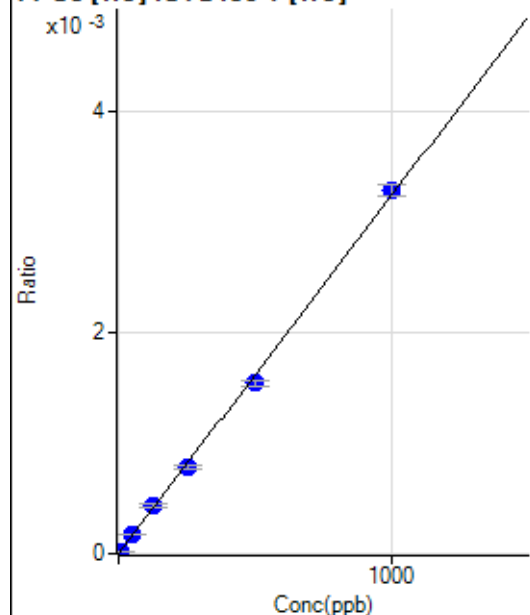
$$DL = 0.02919$$

$$BEC = 0.02779$$

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	6.141	46.67	0.0000	P	27.3
3	☐	50.000	53.550	404.45	0.0002	P	9.0
4	☐	125.000	134.162	1025.60	0.0004	P	4.9
5	☐	250.000	240.970	1799.02	0.0008	P	4.3
6	☐	500.000	475.684	3709.42	0.0015	P	3.5
7	☐	1000.000	1013.087	8086.86	0.0033	P	3.3
8	☐			2.22	0.0000	P	86.7

$$y = 3.2455\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9994$$

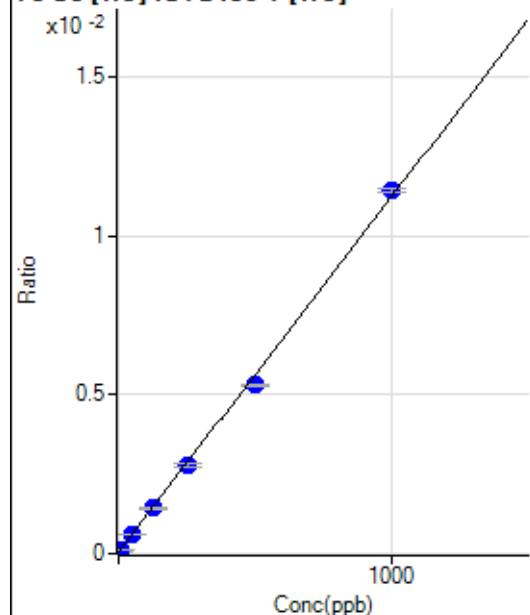
$$DL = 0$$

$$BEC = 0$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	122.34	0.0001	P	8.3
2	☐	5.000	5.396	266.36	0.0001	P	2.4
3	☐	50.000	49.860	1422.55	0.0006	P	0.5
4	☐	125.000	123.059	3369.75	0.0014	P	1.9
5	☐	250.000	243.388	6383.43	0.0028	P	4.9
6	☐	500.000	469.666	12755.06	0.0053	P	1.7
7	☐	1000.000	1017.068	28114.12	0.0114	P	1.1
8	☐			124.34	0.0001	P	8.0

$$y = 1.1189\text{E-}005 * x + 5.3576\text{E-}005$$

$$R = 0.9993$$

$$DL = 1.186$$

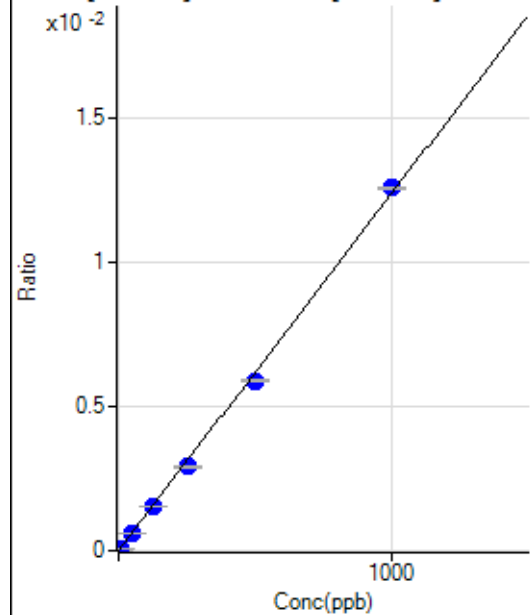
$$BEC = 4.788$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			73347.62		P	3.9
2	☐			73549.81		P	2.0
3	☐			77107.63		P	2.3
4	☐			70558.92		P	2.2
5	☐			70925.54		P	2.0
6	☐			72574.55		P	2.3
7	☐			71013.95		P	1.4
8	☐			74320.25		P	4.1

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	-300.26	0.0000	P	-55.
2	☐	5.000	6.055	1576.38	0.0001	P	17.0
3	☐	50.000	48.593	15043.67	0.0006	P	0.6
4	☐	125.000	123.274	37693.55	0.0015	P	1.4
5	☐	250.000	236.027	74086.32	0.0029	P	1.8
6	☐	500.000	474.392	150275.30	0.0059	P	1.1
7	☐	1000.000	1016.578	328098.08	0.0126	P	0.5
8	☐			157.21	0.0000	P	97.4

$$y = 1.2410E-005 * x - 1.2078E-005$$

$$R = 0.9994$$

$$DL = 1.629$$

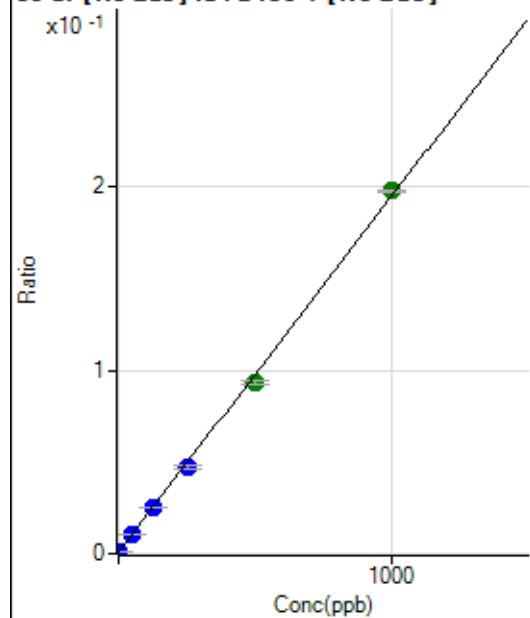
$$BEC = -0.9732$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			13837.59		P	0.8
2	☐			13392.63		P	0.5
3	☐			14124.50		P	0.9
4	☐			14097.83		P	5.7
5	☐			13319.23		P	1.8
6	☐			12743.36		P	0.7
7	☐			13629.50		P	1.5
8	☐			13432.66		P	2.0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	22026.23	0.0009	P	3.4
2	☐	1.000	0.749	26027.56	0.0010	P	2.5
3	☐	50.000	48.159	260418.78	0.0102	P	0.8
4	☐	125.000	123.207	615375.64	0.0248	P	1.0
5	☐	250.000	238.737	1197938.32	0.0472	P	3.8
6	☐	500.000	475.629	2381608.39	0.0931	A	1.6
7	☐	1000.000	1015.318	5147077.46	0.1977	A	0.5
8	☐			53648.09	0.0022	P	1.6

$$y = 1.9385E-004 * x + 8.9504E-004$$

$$R = 0.9995$$

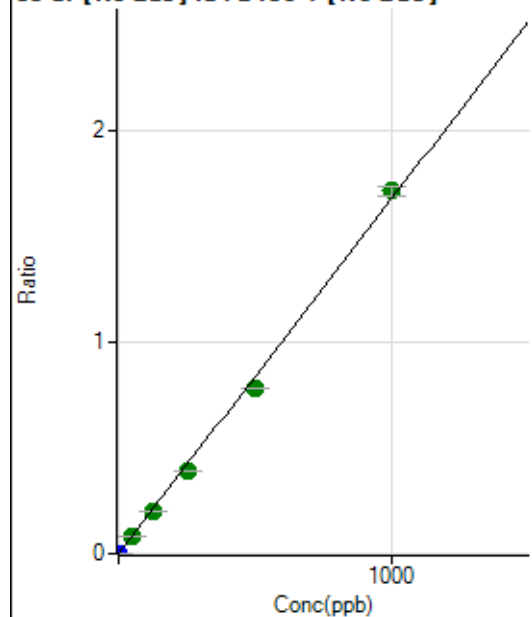
$$DL = 0.4763$$

$$BEC = 4.617$$

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	491.69	0.0000	P	16.2
2	☐	1.000	0.938	39930.22	0.0016	P	2.7
3	☐	50.000	48.376	2070178.62	0.0813	A	2.1
4	☐	125.000	119.138	4973294.99	0.2003	A	1.6
5	☐	250.000	231.572	9886986.33	0.3892	A	0.8
6	☐	500.000	465.394	20009708.09	0.7822	A	0.1
7	☐	1000.000	1022.724	44748829.82	1.7190	A	2.6
8	☐			291771.88	0.0117	P	2.2

$$y = 0.0017 * x + 2.0002E-005$$

$$R = 0.9989$$

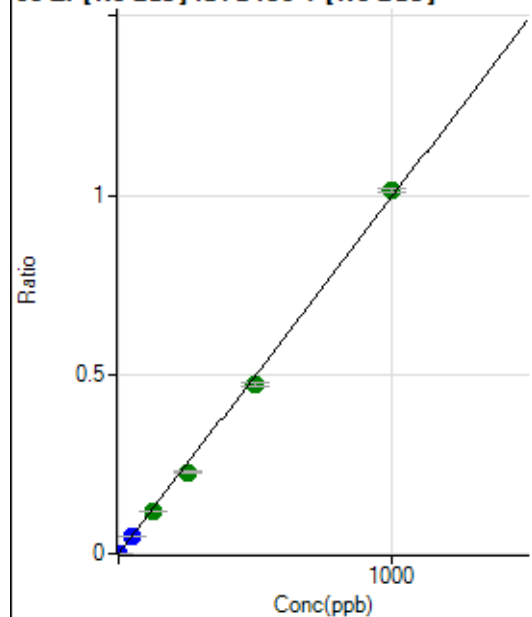
$$DL = 0.005785$$

$$BEC = 0.0119$$

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	1152.86	0.0000	P	6.8
2	☐	1.000	0.899	23551.04	0.0009	P	2.3
3	☐	50.000	48.318	1224253.44	0.0481	P	1.6
4	☐	125.000	119.096	2942299.54	0.1185	A	1.4
5	☐	250.000	229.002	5784907.38	0.2278	A	2.2
6	☐	500.000	475.987	12107819.72	0.4734	A	2.3
7	☐	1000.000	1018.078	26356941.73	1.0124	A	1.0
8	☐			13265.10	0.0005	P	0.3

$$y = 9.9442E-004 * x + 4.6859E-005$$

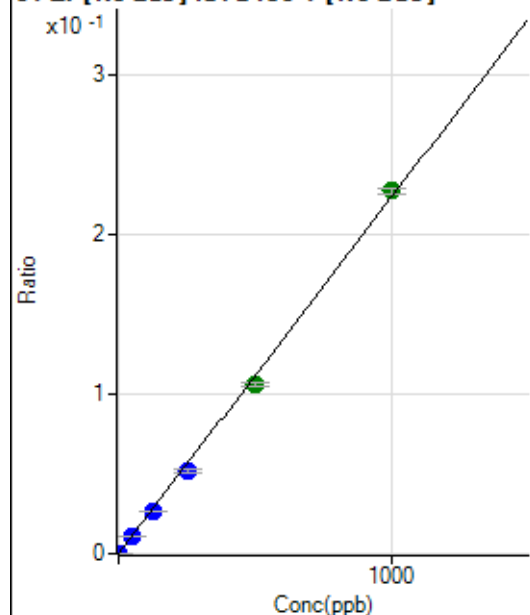
$$R = 0.9993$$

$$DL = 0.009677$$

$$BEC = 0.04712$$

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	191.67	0.0000	P	11.2
2	☐	1.000	0.893	5192.77	0.0002	P	4.4
3	☐	50.000	47.663	271459.71	0.0107	P	0.3
4	☐	125.000	120.101	667042.89	0.0269	P	1.0
5	☐	250.000	231.683	1315715.79	0.0518	P	2.5
6	☐	500.000	475.430	2718936.17	0.1063	A	2.1
7	☐	1000.000	1017.594	5922641.19	0.2275	A	1.7
8	☐			2955.96	0.0001	P	6.7

$$y = 2.2357\text{E-}004 * x + 7.7732\text{E-}006$$

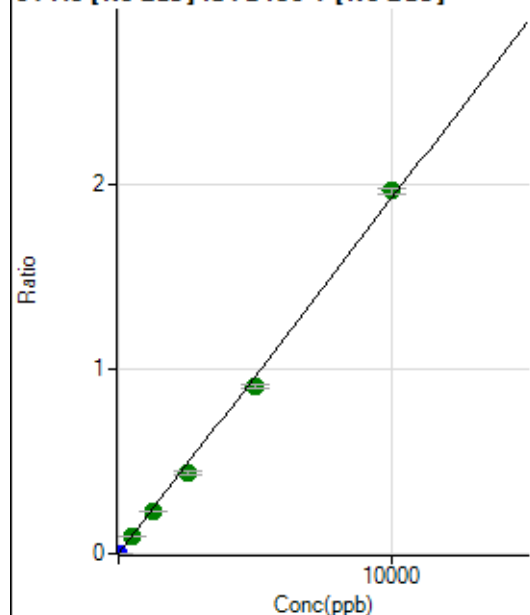
$$R = 0.9994$$

$$DL = 0.01166$$

$$BEC = 0.03477$$

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	411.13	0.0000	P	4.5
2	☐	5.000	5.592	27335.96	0.0011	P	2.6
3	☐	500.000	472.891	2316425.99	0.0910	A	1.5
4	☐	1250.000	1187.060	5672189.97	0.2284	A	0.8
5	☐	2500.000	2274.812	11115928.20	0.4377	A	2.8
6	☐	5000.000	4701.829	23138006.42	0.9046	A	1.6
7	☐	10000.000	10214.605	51160951.49	1.9652	A	1.5
8	☐			18259.77	0.0007	P	2.8

$$y = 1.9239\text{E-}004 * x + 1.6708\text{E-}005$$

$$R = 0.9991$$

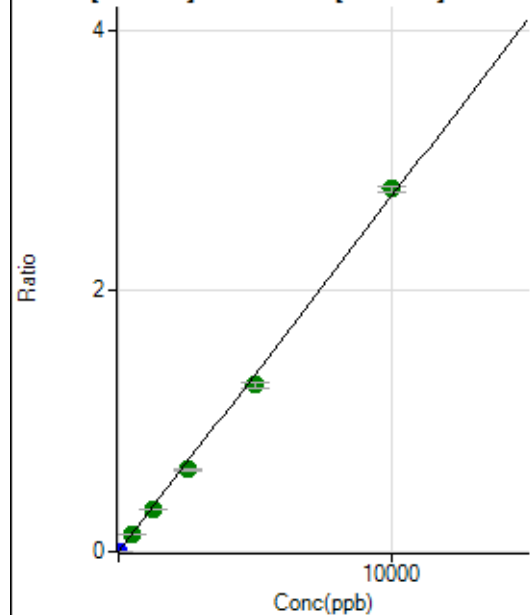
$$DL = 0.01163$$

$$BEC = 0.08685$$

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	83.33	0.0000	P	28.0
2	☐	5.000	4.775	32650.18	0.0013	P	0.6
3	☐	500.000	469.241	3255281.78	0.1279	A	0.2
4	☐	1250.000	1206.481	8165632.99	0.3288	A	0.6
5	☐	2500.000	2301.860	15934010.43	0.6273	A	1.1
6	☐	5000.000	4685.785	32661119.13	1.2769	A	2.7
7	☐	10000.000	10213.620	72456211.34	2.7833	A	1.4
8	☐			20980.24	0.0008	P	4.5

$$y = 2.7251E-004 * x + 3.3945E-006$$

$$R = 0.9991$$

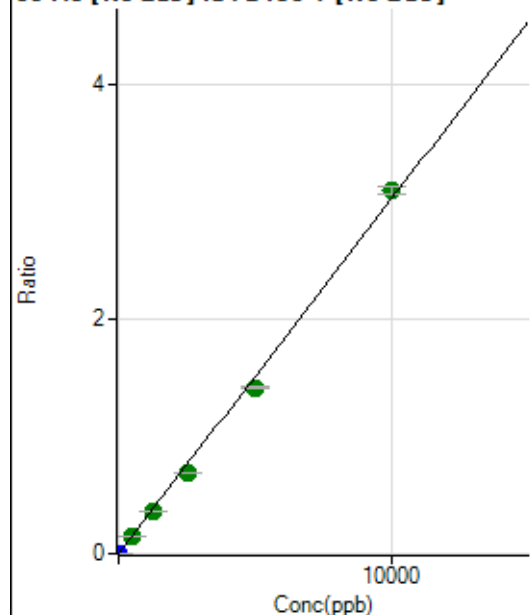
$$DL = 0.01045$$

$$BEC = 0.01246$$

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	511.14	0.0000	P	10.9
2	☐	5.000	4.821	36966.69	0.0015	P	2.6
3	☐	500.000	464.714	3574930.42	0.1404	A	1.0
4	☐	1250.000	1190.954	8938319.99	0.3599	A	1.4
5	☐	2500.000	2279.136	17493514.80	0.6887	A	1.8
6	☐	5000.000	4675.718	36140568.17	1.4129	A	1.0
7	☐	10000.000	10226.502	80442759.44	3.0902	A	2.2
8	☐			64550.60	0.0026	P	3.1

$$y = 3.0217E-004 * x + 2.0795E-005$$

$$R = 0.9990$$

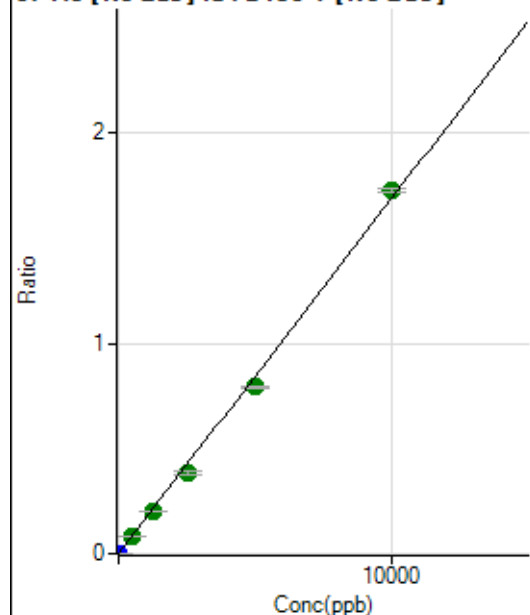
$$DL = 0.02257$$

$$BEC = 0.06882$$

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	58.34	0.0000	P	41.0
2	☐	5.000	4.761	20173.46	0.0008	P	1.4
3	☐	500.000	471.965	2028413.09	0.0797	A	1.2
4	☐	1250.000	1194.547	5008331.14	0.2017	A	3.0
5	☐	2500.000	2279.425	9774799.52	0.3849	A	3.3
6	☐	5000.000	4693.236	20270385.87	0.7924	A	0.4
7	☐	10000.000	10216.859	44905773.23	1.7250	A	0.9
8	☐			12975.88	0.0005	P	0.9

$$y = 1.6884\text{E-}004 * x + 2.3536\text{E-}006$$

$$R = 0.9990$$

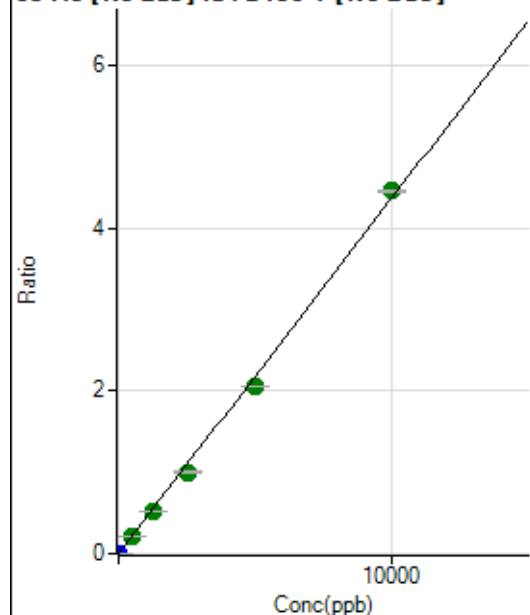
$$DL = 0.01713$$

$$BEC = 0.01394$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	175.01	0.0000	P	16.8
2	☐	5.000	4.774	52391.71	0.0021	P	2.4
3	☐	500.000	468.550	5211849.03	0.2048	A	2.0
4	☐	1250.000	1205.253	13080512.79	0.5267	A	0.9
5	☐	2500.000	2289.998	25419672.10	1.0007	A	2.9
6	☐	5000.000	4691.484	52443113.67	2.0502	A	0.3
7	☐	10000.000	10213.924	116196116.4	4.4635	A	0.3
8	☐			29100.62	0.0012	P	3.7

$$y = 4.3700\text{E-}004 * x + 7.0884\text{E-}006$$

$$R = 0.9991$$

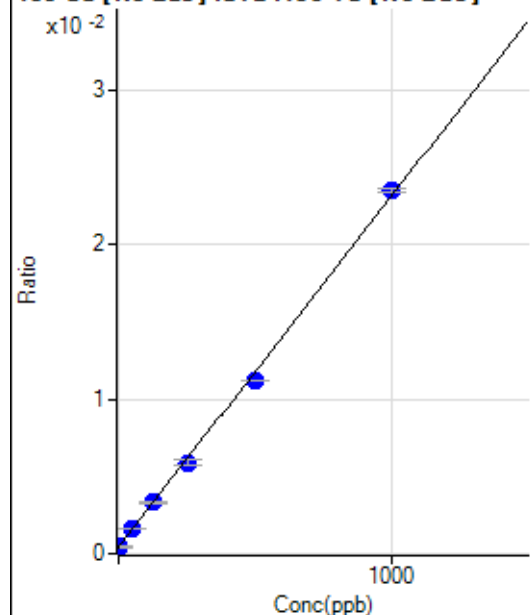
$$DL = 0.008168$$

$$BEC = 0.01622$$

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	7338.26	0.0004	P	4.2
2	☐	1.000	0.111	7324.36	0.0004	P	7.4
3	☐	50.000	51.780	26665.35	0.0016	P	2.0
4	☐	125.000	127.362	56218.61	0.0033	P	3.4
5	☐	250.000	240.844	103296.26	0.0059	P	5.4
6	☐	500.000	474.129	197742.91	0.0112	P	0.7
7	☐	1000.000	1014.841	426620.05	0.0235	P	1.2
8	☐			7185.38	0.0004	P	3.4

$$y = 2.2719E-005 * x + 4.3478E-004$$

R = 0.9994

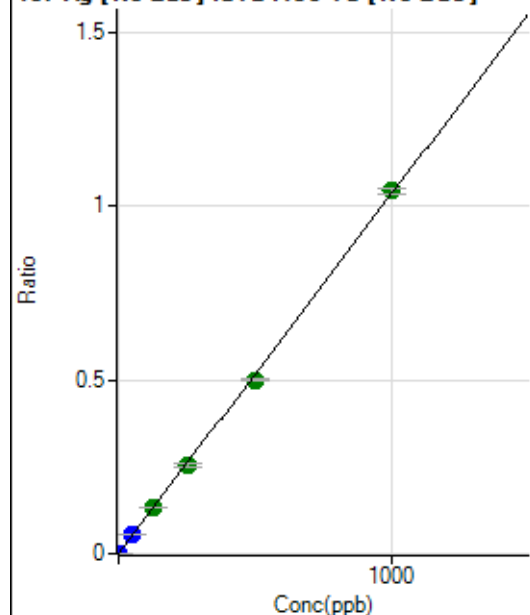
DL = 2.396

BEC = 19.14

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	141.67	0.0000	P	15.2
2	☐	1.000	1.037	18142.92	0.0011	P	3.7
3	☐	50.000	54.499	934812.25	0.0565	P	0.3
4	☐	125.000	129.144	2261556.63	0.1338	A	1.4
5	☐	250.000	245.617	4451952.96	0.2545	A	4.3
6	☐	500.000	483.548	8843470.34	0.5011	A	1.5
7	☐	1000.000	1008.579	18980547.99	1.0452	A	1.6
8	☐			5554.05	0.0003	P	6.7

$$y = 0.0010 * x + 8.3875E-006$$

R = 0.9998

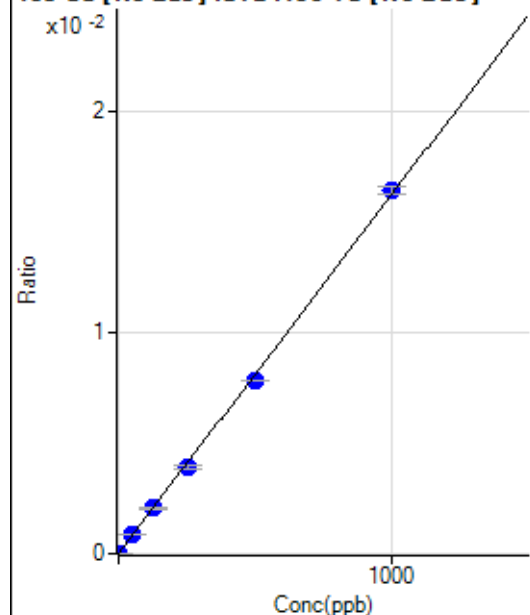
DL = 0.0037

BEC = 0.008094

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	93.06	0.0000	P	33.1
2	☐	1.000	1.018	369.45	0.0000	P	6.7
3	☐	50.000	53.050	14324.27	0.0009	P	2.8
4	☐	125.000	125.959	34579.80	0.0020	P	3.7
5	☐	250.000	240.757	68360.49	0.0039	P	4.0
6	☐	500.000	482.099	138004.10	0.0078	P	0.5
7	☐	1000.000	1010.989	297689.31	0.0164	P	2.2
8	☐			188.89	0.0000	P	8.0

$$y = 1.6210\text{E-}005 * x + 5.4992\text{E-}006$$

$$R = 0.9997$$

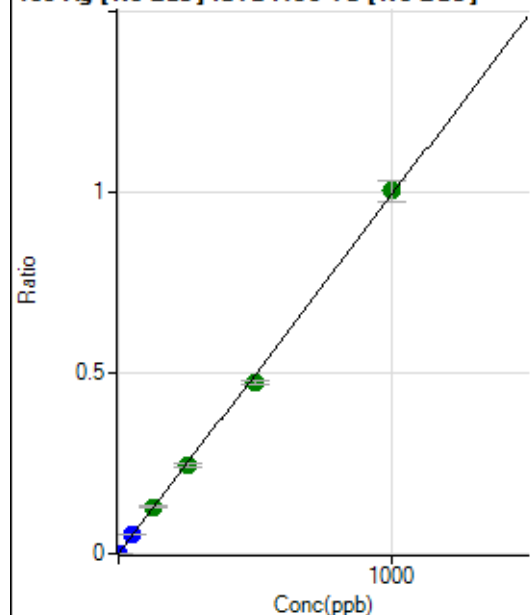
$$DL = 0.3366$$

$$BEC = 0.3392$$

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	58.33	0.0000	P	75.0
2	☐	1.000	0.998	16610.45	0.0010	P	5.1
3	☐	50.000	53.497	877084.30	0.0530	P	0.6
4	☐	125.000	129.993	2175498.18	0.1288	A	2.7
5	☐	250.000	244.923	4244168.63	0.2426	A	3.8
6	☐	500.000	477.939	8353116.51	0.4734	A	2.0
7	☐	1000.000	1011.501	18184538.43	1.0020	A	5.6
8	☐			5256.71	0.0003	P	7.5

$$y = 9.9059\text{E-}004 * x + 3.4473\text{E-}006$$

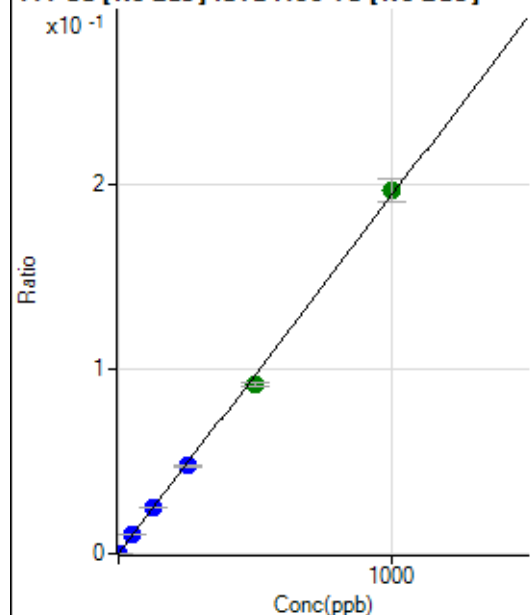
$$R = 0.9996$$

$$DL = 0.007833$$

$$BEC = 0.00348$$

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	1455.29	0.0001	P	6.2
2	☐	1.000	1.002	4703.97	0.0003	P	2.7
3	☐	50.000	52.540	170197.19	0.0103	P	1.0
4	☐	125.000	128.903	424083.30	0.0251	P	3.1
5	☐	250.000	244.905	833133.74	0.0476	P	2.3
6	☐	500.000	474.655	1626860.53	0.0922	A	2.1
7	☐	1000.000	1013.331	3570652.51	0.1968	A	6.3
8	☐			2242.39	0.0001	P	1.7

$$y = 1.9408\text{E-}004 * x + 8.6241\text{E-}005$$

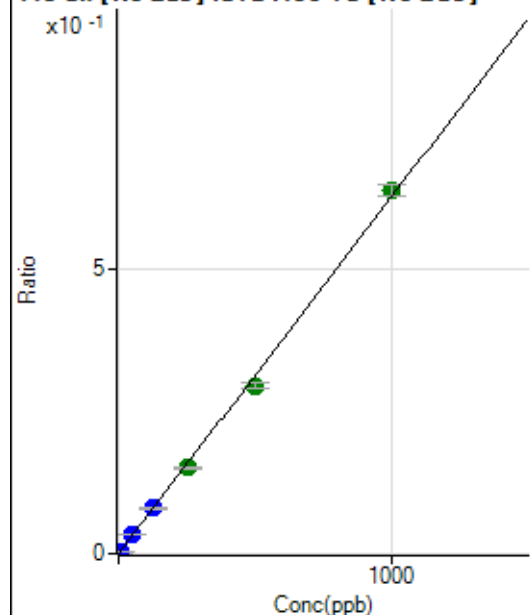
$$R = 0.9995$$

$$DL = 0.08326$$

$$BEC = 0.4444$$

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	1802.94	0.0001	P	10.8
2	☐	5.000	4.982	54244.84	0.0032	P	5.0
3	☐	50.000	52.912	552260.52	0.0334	P	1.0
4	☐	125.000	127.018	1350705.90	0.0800	P	4.1
5	☐	250.000	240.691	2649682.31	0.1514	A	1.2
6	☐	500.000	470.457	5219032.93	0.2959	A	3.7
7	☐	1000.000	1016.701	11606922.14	0.6392	A	3.2
8	☐			53572.58	0.0031	P	0.9

$$y = 6.2863\text{E-}004 * x + 1.0681\text{E-}004$$

$$R = 0.9993$$

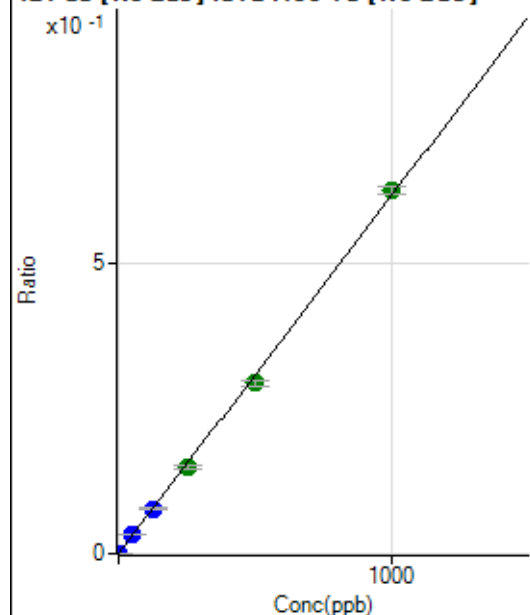
$$DL = 0.05509$$

$$BEC = 0.1699$$

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	119.45	0.0000	P	25.1
2	☐	2.000	1.914	19928.89	0.0012	P	4.0
3	☐	50.000	52.037	532279.98	0.0322	P	0.5
4	☐	125.000	125.750	1312342.11	0.0777	P	4.4
5	☐	250.000	243.349	2630113.21	0.1504	A	4.3
6	☐	500.000	475.896	5187948.94	0.2941	A	3.1
7	☐	1000.000	1013.519	11371946.09	0.6263	A	2.2
8	☐			5898.64	0.0003	P	6.4

$$y = 6.1791\text{E-}004 * x + 7.0532\text{E-}006$$

$$R = 0.9995$$

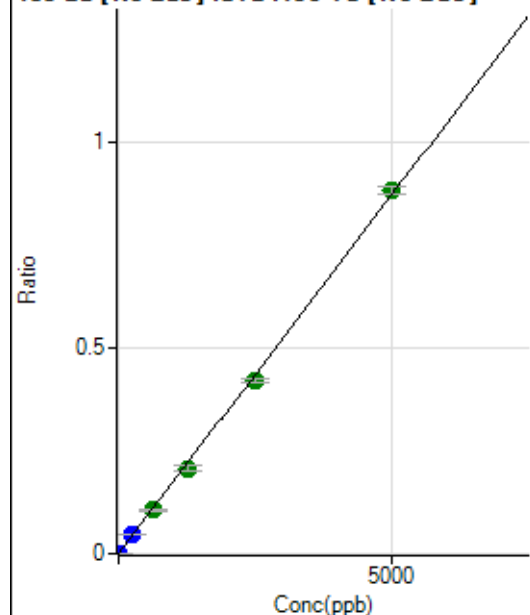
$$DL = 0.008596$$

$$BEC = 0.01141$$

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	47.22	0.0000	P	20.5
2	☐	10.000	9.693	28310.77	0.0017	P	5.1
3	☐	250.000	257.189	741109.41	0.0448	P	0.7
4	☐	625.000	613.568	1803892.86	0.1068	A	4.8
5	☐	1250.000	1189.940	3622825.25	0.2072	A	5.7
6	☐	2500.000	2413.013	7412292.96	0.4201	A	2.0
7	☐	5000.000	5059.579	15995141.15	0.8809	A	2.2
8	☐			7332.77	0.0004	P	2.4

$$y = 1.7410\text{E-}004 * x + 2.7972\text{E-}006$$

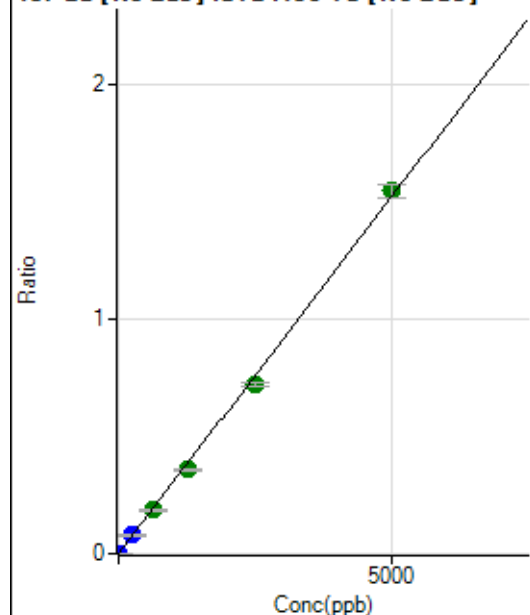
$$R = 0.9997$$

$$DL = 0.009878$$

$$BEC = 0.01607$$

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	75.00	0.0000	P	31.4
2	☐	10.000	9.682	49318.68	0.0029	P	3.5
3	☐	250.000	256.492	1288711.48	0.0779	P	1.5
4	☐	625.000	611.218	3134380.21	0.1856	A	3.4
5	☐	1250.000	1175.802	6245581.48	0.3570	A	2.3
6	☐	2500.000	2368.590	12686775.72	0.7191	A	3.0
7	☐	5000.000	5085.654	28029733.96	1.5439	A	3.4
8	☐			12773.05	0.0007	P	5.3

$$y = 3.0358E-004 * x + 4.4571E-006$$

$$R = 0.9994$$

$$DL = 0.01382$$

$$BEC = 0.01468$$

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	0.0
2	☐			13.33		P	100.
3	☐			60.00		P	38.5
4	☐			157.78		P	6.5
5	☐			268.90		P	14.3
6	☐			568.92		P	4.1
7	☐			1313.43		P	1.0
8	☐			202.23		P	33.8

150 Nd [He] No available calibration points

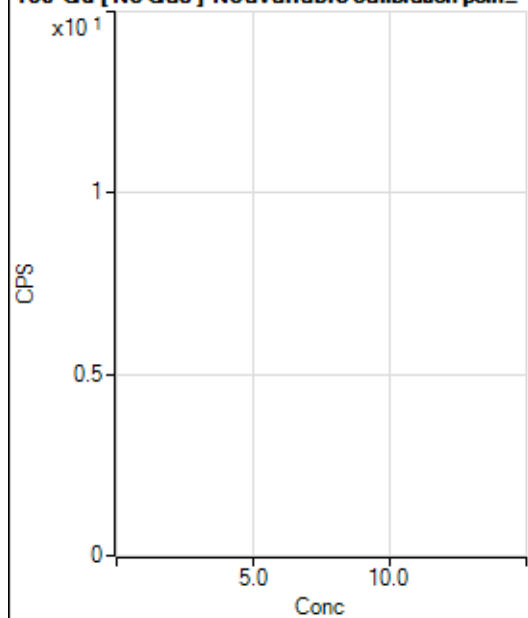
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	173.
2	☐			6.67		P	0.0
3	☐			5.55		P	69.3
4	☐			10.00		P	33.3
5	☐			18.89		P	40.7
6	☐			43.33		P	23.1
7	☐			81.11		P	36.8
8	☐			37.78		P	44.4

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.33		P	173.
2	☐			16.67		P	50.0
3	☐			69.45		P	18.3
4	☐			88.89		P	21.6
5	☐			222.23		P	17.7
6	☐			425.02		P	3.4
7	☐			861.17		P	8.2
8	☐			1639.04		P	6.2

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6.67		P	0.0
2	☐			4.44		P	114.
3	☐			21.11		P	50.8
4	☐			37.78		P	28.4
5	☐			64.44		P	3.0
6	☐			117.78		P	4.3
7	☐			281.12		P	10.4
8	☐			413.34		P	8.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			91.67		P	15.7
2	☐			94.45		P	31.0
3	☐			127.78		P	27.2
4	☐			141.67		P	15.6
5	☐			272.23		P	13.8
6	☐			330.57		P	20.2
7	☐			688.93		P	3.0
8	☐			997.29		P	9.6

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			106.67		P	11.3
2	☐			110.00		P	24.1
3	☐			102.23		P	21.7
4	☐			140.00		P	32.0
5	☐			152.23		P	5.5
6	☐			180.00		P	9.3
7	☐			356.68		P	5.6
8	☐			444.46		P	10.2

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			119.45		P	14.5
2	☐			80.56		P	43.1
3	☐			91.67		P	31.5
4	☐			150.00		P	14.7
5	☐			186.12		P	32.4
6	☐			216.67		P	20.4
7	☐			302.79		P	19.5
8	☐			169.45		P	20.5

164 Er [He] No available calibration points

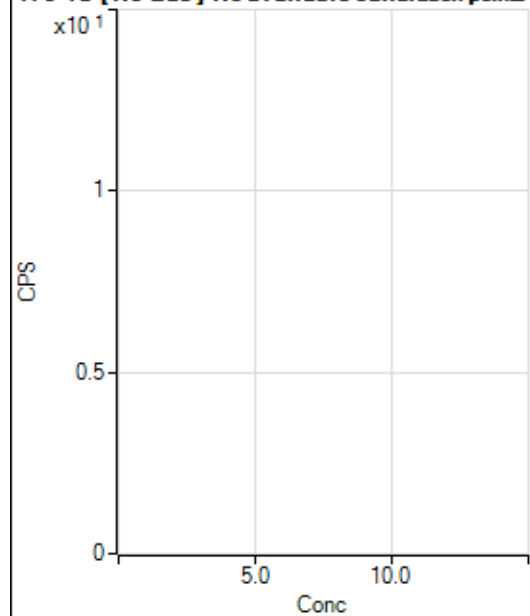
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			36.67		P	15.7
2	☐			46.67		P	0.0
3	☐			40.00		P	16.7
4	☐			42.22		P	48.2
5	☐			50.00		P	20.0
6	☐			65.55		P	24.0
7	☐			112.22		P	12.0
8	☐			70.00		P	16.5

172 Yb [No Gas] No available calibration points

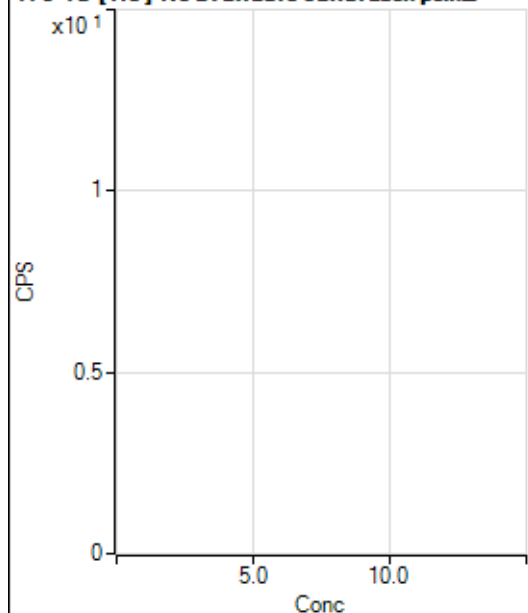
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			91.67		P	32.8
2	☐			52.78		P	24.1
3	☐			125.01		P	35.3
4	☐			97.22		P	21.6
5	☐			130.56		P	45.3
6	☐			172.23		P	17.0
7	☐			225.01		P	28.9
8	☐			288.90		P	15.9

172 Yb [He] No available calibration points

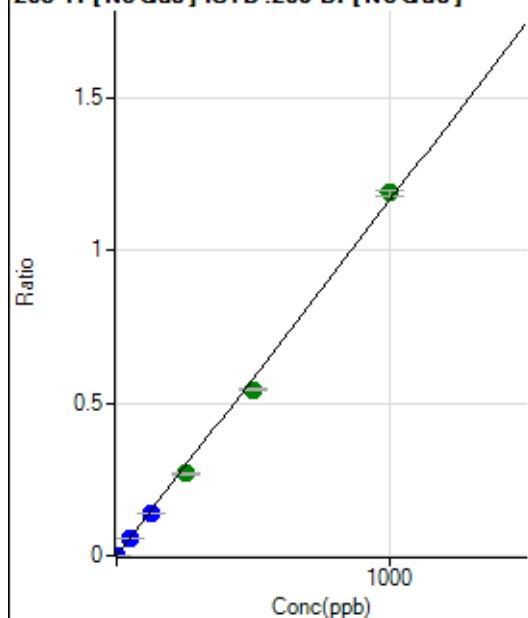
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			51.86		P	12.4
2	☐			27.78		P	40.0
3	☐			27.78		P	20.0
4	☐			33.33		P	16.7
5	☐			46.30		P	6.9
6	☐			72.22		P	30.8
7	☐			109.26		P	16.3
8	☐			107.41		P	21.5

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2428.07		P	9.9
2	☐			2225.27		P	10.4
3	☐			4350.84		P	5.7
4	☐			7457.88		P	7.2
5	☐			13562.91		P	2.4
6	☐			24746.00		P	3.2
7	☐			51892.03		P	3.4
8	☐			2461.42		P	3.1

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			7046.46		P	4.7
2	☐			7298.43		P	3.6
3	☐			7783.91		P	4.4
4	☐			9242.28		P	4.8
5	☐			10943.62		P	3.2
6	☐			15933.95		P	0.1
7	☐			25840.47		P	3.2
8	☐			7224.33		P	3.7

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	577.81	0.0001	P	7.5
2	☐	1.000	0.908	10485.13	0.0011	P	2.8
3	☐	50.000	47.885	522056.30	0.0557	P	1.5
4	☐	125.000	117.877	1292266.80	0.1370	P	1.8
5	☐	250.000	230.417	2614524.39	0.2677	A	2.3
6	☐	500.000	468.305	5269691.52	0.5440	A	0.6
7	☐	1000.000	1021.739	11446638.02	1.1867	A	1.6
8	☐			3758.99	0.0005	P	7.7

$$y = 0.0012 * x + 6.1768E-005$$

$$R = 0.9991$$

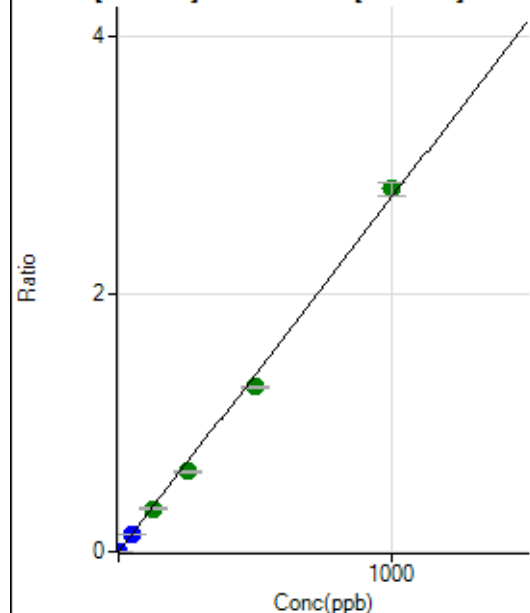
$$DL = 0.01194$$

$$BEC = 0.05318$$

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	1391.78	0.0001	P	11.9
2	☐	1.000	0.901	24671.48	0.0026	P	1.3
3	☐	50.000	48.592	1253711.69	0.1338	P	3.4
4	☐	125.000	120.066	3115159.01	0.3303	A	3.5
5	☐	250.000	226.120	6073973.14	0.6219	A	2.4
6	☐	500.000	464.602	12373366.07	1.2775	A	2.0
7	☐	1000.000	1024.356	27156196.61	2.8166	A	3.4
8	☐			9070.11	0.0012	P	4.6

$$y = 0.0027 * x + 1.4925E-004$$

$$R = 0.9988$$

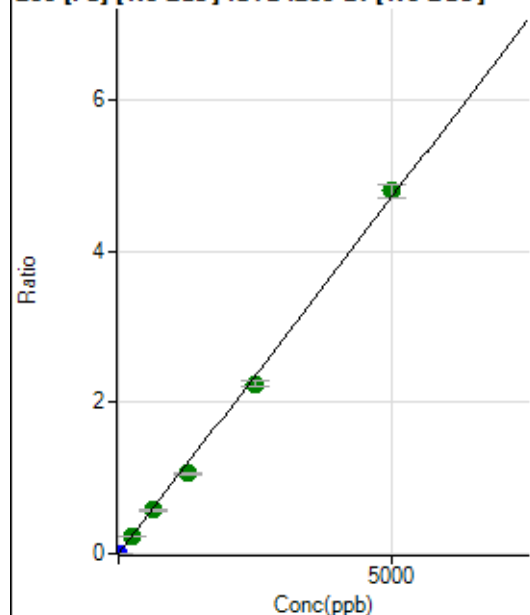
$$DL = 0.01939$$

$$BEC = 0.05428$$

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	883.38	0.0001	P	9.3
2	☐	1.000	0.908	8918.06	0.0009	P	1.9
3	☐	250.000	240.653	2126031.05	0.2268	A	3.7
4	☐	625.000	612.622	5444602.21	0.5772	A	4.2
5	☐	1250.000	1126.702	10370599.08	1.0615	A	3.0
6	☐	2500.000	2381.518	21727313.22	2.2436	A	3.2
7	☐	5000.000	5092.080	46251389.00	4.7971	A	3.6
8	☐			9066.32	0.0012	P	2.0

$$y = 9.4206E-004 * x + 9.4689E-005$$

$$R = 0.9992$$

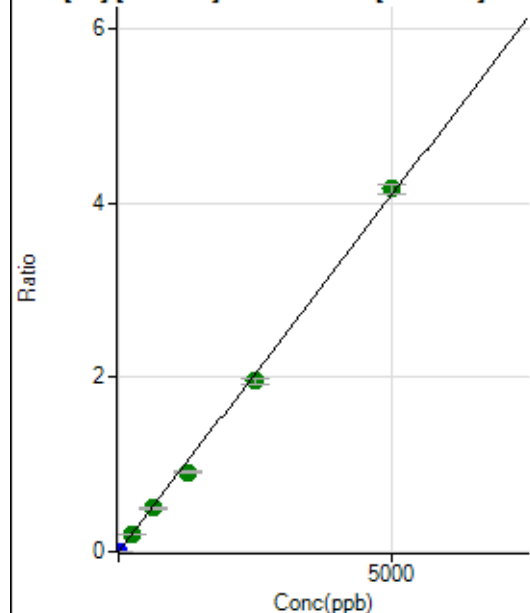
$$DL = 0.02818$$

$$BEC = 0.1005$$

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	872.27	0.0001	P	10.2
2	☐	1.000	0.884	7678.38	0.0008	P	2.8
3	☐	250.000	239.322	1839133.35	0.1961	A	0.8
4	☐	625.000	606.929	4690258.27	0.4972	A	4.4
5	☐	1250.000	1115.532	8926808.30	0.9138	A	1.9
6	☐	2500.000	2393.450	18985434.22	1.9604	A	3.5
7	☐	5000.000	5089.685	40196399.51	4.1687	A	2.5
8	☐			7824.75	0.0010	P	2.0

$$y = 8.1904\text{E-}004 * x + 9.3540\text{E-}005$$

$$R = 0.9993$$

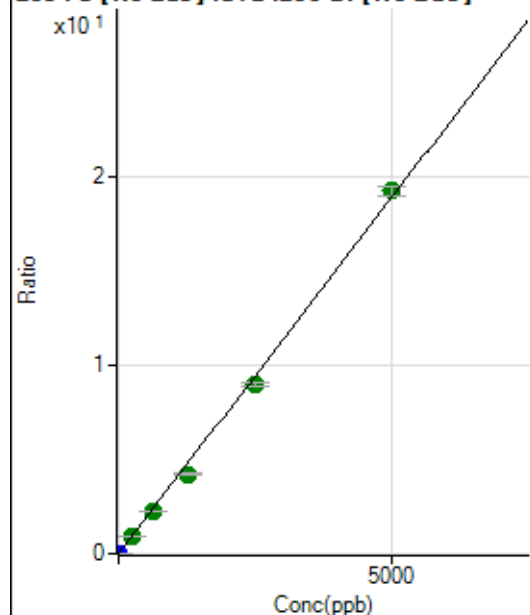
$$DL = 0.03505$$

$$BEC = 0.1142$$

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	3757.69	0.0004	P	3.3
2	☐	1.000	0.899	35712.72	0.0038	P	1.9
3	☐	250.000	237.955	8447374.34	0.9008	A	1.4
4	☐	625.000	595.730	21268997.99	2.2546	A	3.1
5	☐	1250.000	1113.999	41183428.24	4.2156	A	1.9
6	☐	2500.000	2382.277	87311439.68	9.0146	A	2.3
7	☐	5000.000	5097.123	185964990.7	19.2871	A	2.9
8	☐			35849.70	0.0046	P	2.5

$$y = 0.0038 * x + 4.0239\text{E-}004$$

$$R = 0.9992$$

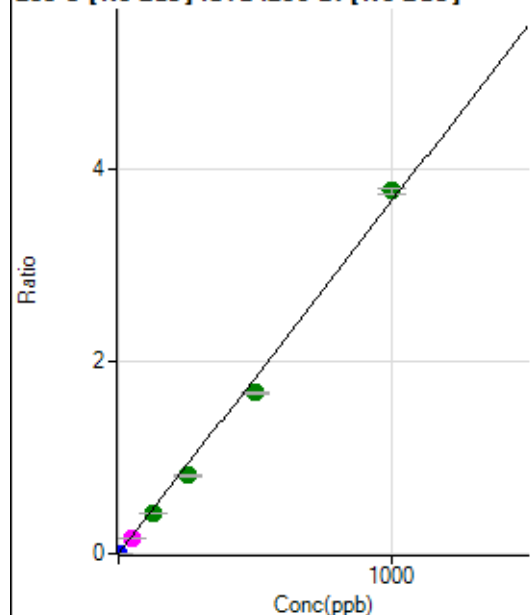
$$DL = 0.01053$$

$$BEC = 0.1063$$

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	47.23	0.0000	P	57.3
2	☐	1.000	0.847	29240.08	0.0031	P	3.3
3	☐	50.000	45.451	1564111.97	0.1669	M	3.4
4	☐	125.000	114.420	3963800.09	0.4201	A	0.8
5	☐	250.000	221.837	7955642.19	0.8144	A	1.0
6	☐	500.000	457.421	16266481.96	1.6793	A	1.5
7	☐	1000.000	1029.880	36464157.06	3.7809	A	1.6
8	☐			3267.19	0.0004	P	11.9

$$y = 0.0037 * x + 5.0601E-006$$

$$R = 0.9983$$

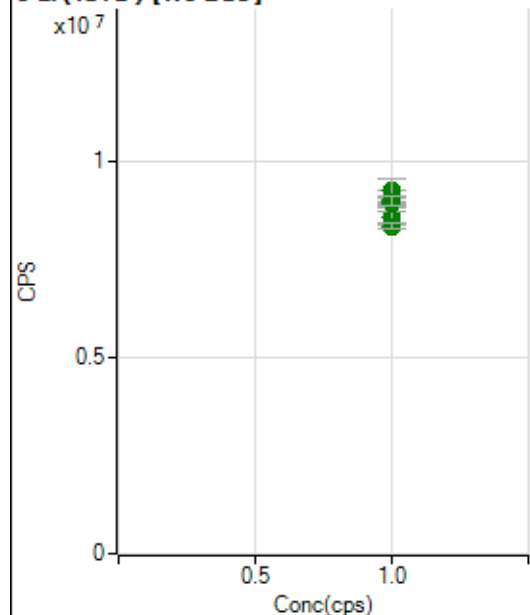
$$DL = 0.002369$$

$$BEC = 0.001378$$

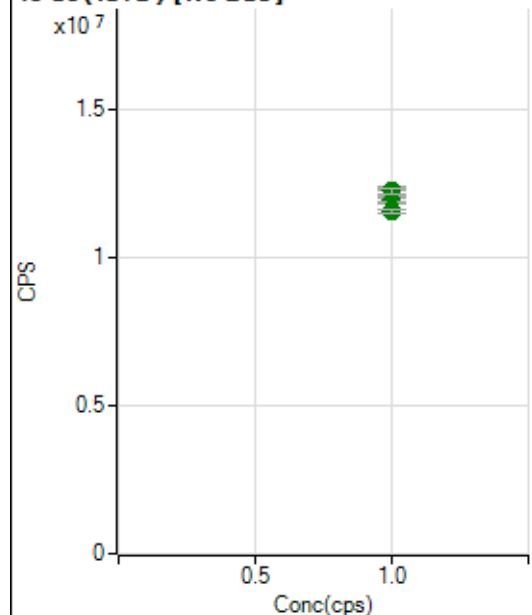
Weight: <None>

Min Conc: 0

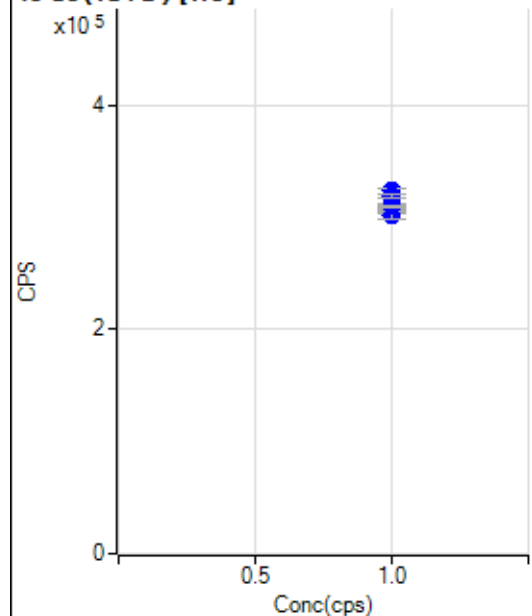
6 Li (ISTD) [No Gas]



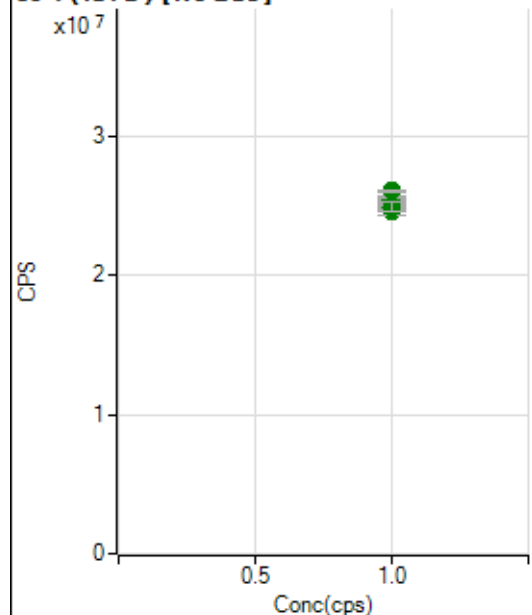
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9086304.33		A	3.4
2	☐	1.000		8558841.30		A	4.2
3	☐	1.000		9019179.07		A	1.3
4	☐	1.000		8966980.70		A	3.2
5	☐	1.000		9237210.47		A	6.4
6	☐	1.000		8913446.46		A	2.8
7	☐	1.000		8979198.14		A	2.8
8	☐	1.000		8333770.69		A	1.5

45 Sc (ISTD) [No Gas]

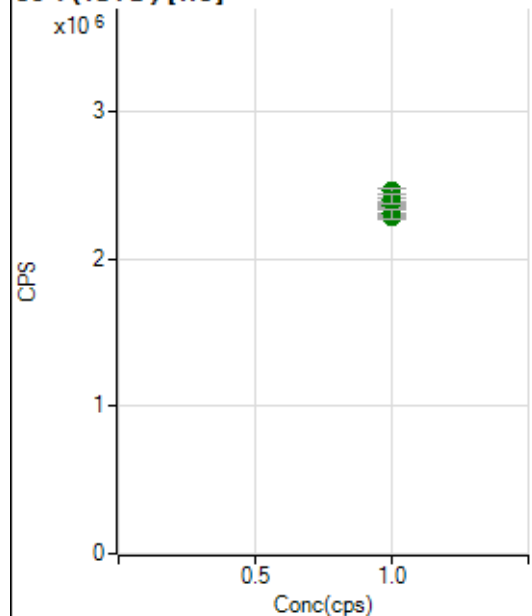
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11958074.13		A	0.7
2	☐	1.000		11985577.46		A	2.4
3	☐	1.000		11991378.57		A	1.4
4	☐	1.000		12166386.63		A	2.0
5	☐	1.000		12256788.98		A	2.1
6	☐	1.000		12119964.68		A	0.3
7	☐	1.000		12254697.87		A	1.7
8	☐	1.000		11562201.63		A	0.9

45 Sc (ISTD) [He]

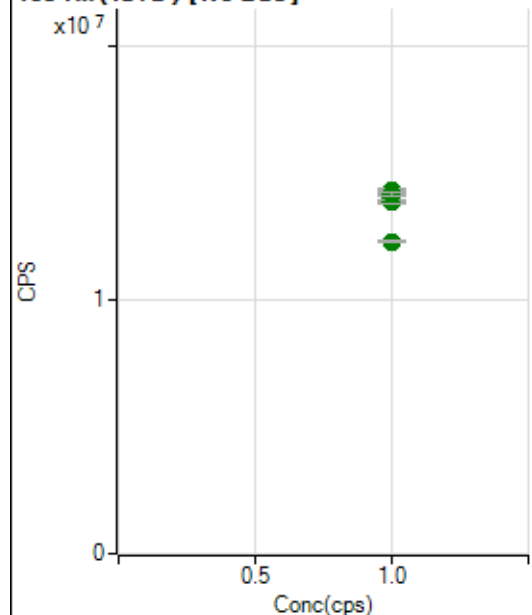
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		304912.26		P	0.8
2	☐	1.000		310540.45		P	1.3
3	☐	1.000		306011.35		P	1.6
4	☐	1.000		307730.23		P	0.6
5	☐	1.000		302281.76		P	2.3
6	☐	1.000		309542.10		P	0.3
7	☐	1.000		323214.52		P	1.9
8	☐	1.000		318208.56		P	0.9

89 Y (ISTD) [No Gas]

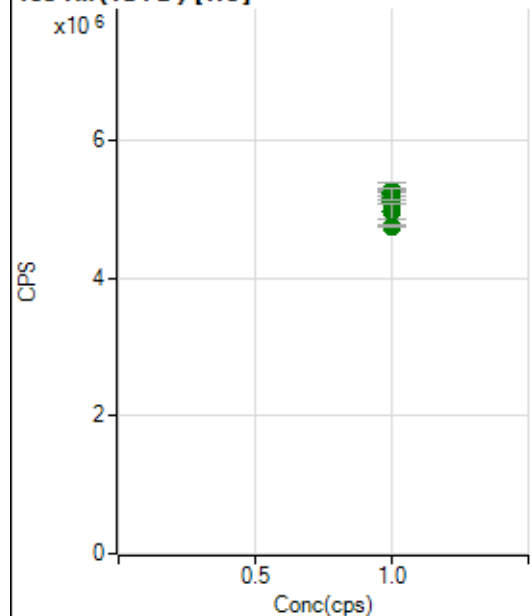
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		24624038.80		A	2.6
2	☐	1.000		25024343.24		A	1.3
3	☐	1.000		25455945.73		A	1.0
4	☐	1.000		24836151.30		A	0.9
5	☐	1.000		25402921.29		A	1.5
6	☐	1.000		25580230.18		A	0.9
7	☐	1.000		26032906.56		A	0.5
8	☐	1.000		24863897.13		A	2.8

89 Y (ISTD) [He]

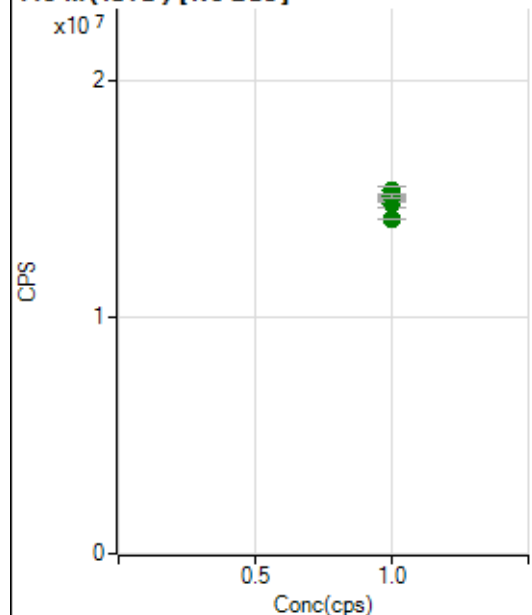
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2283714.64		A	0.8
2	☐	1.000		2337277.10		A	2.2
3	☐	1.000		2326673.37		A	2.2
4	☐	1.000		2355959.53		A	1.1
5	☐	1.000		2301132.33		A	3.1
6	☐	1.000		2402824.93		A	1.0
7	☐	1.000		2459189.53		A	1.6
8	☐	1.000		2403140.22		A	2.4

103 Rh (ISTD) [No Gas]

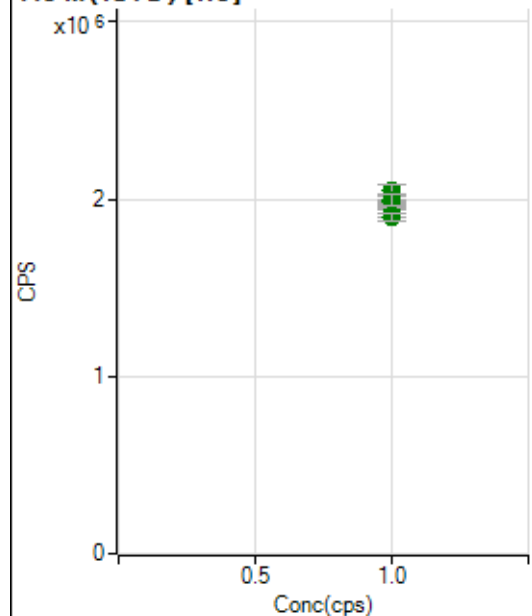
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		14044296.84		A	0.9
2	☐	1.000		14027900.14		A	2.5
3	☐	1.000		14307034.87		A	0.5
4	☐	1.000		14027050.31		A	1.0
5	☐	1.000		14254814.73		A	2.5
6	☐	1.000		13889964.37		A	0.7
7	☐	1.000		14158909.87		A	0.9
8	☐	1.000		12303557.74		A	0.7

103 Rh (ISTD) [He]

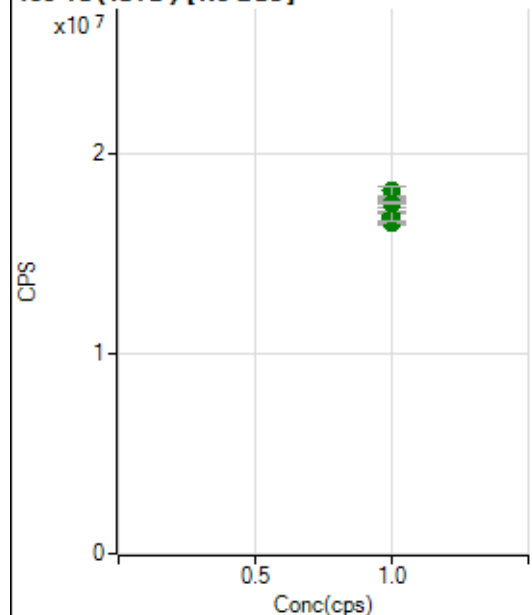
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5111128.19		A	1.5
2	☐	1.000		5270170.41		A	4.6
3	☐	1.000		5160947.08		A	1.4
4	☐	1.000		5217417.01		A	1.3
5	☐	1.000		4972214.33		A	4.5
6	☐	1.000		5241629.23		A	1.5
7	☐	1.000		5226903.57		A	2.9
8	☐	1.000		4750593.85		A	0.6

115 In (ISTD) [No Gas]

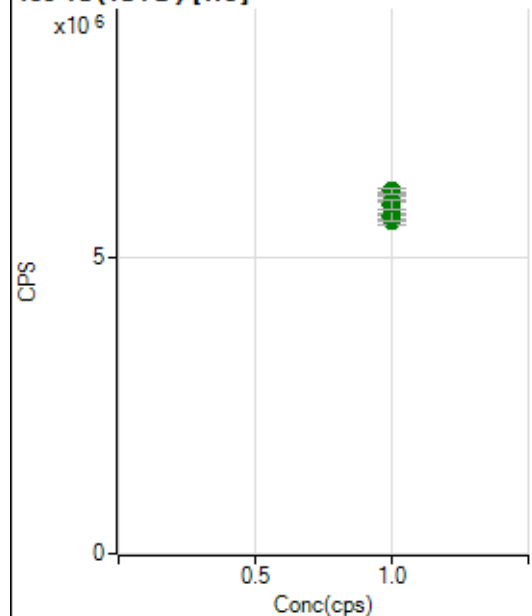
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		14813339.70		A	2.7
2	☐	1.000		14968777.22		A	1.3
3	☐	1.000		15030920.37		A	1.6
4	☐	1.000		14963595.93		A	1.9
5	☐	1.000		15322202.00		A	2.4
6	☐	1.000		14901965.83		A	0.4
7	☐	1.000		15102833.31		A	1.3
8	☐	1.000		14124581.78		A	0.1

115 In (ISTD) [He]

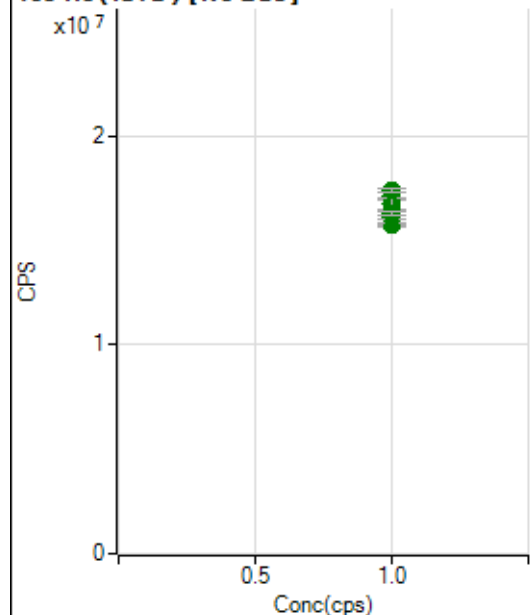
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1941764.74		A	1.7
2	☐	1.000		2046886.98		A	3.3
3	☐	1.000		1987008.52		A	0.1
4	☐	1.000		1983802.98		A	0.8
5	☐	1.000		1922205.73		A	2.2
6	☐	1.000		1958679.11		A	0.9
7	☐	1.000		1993898.14		A	3.1
8	☐	1.000		1898899.75		A	2.4

159 Tb (ISTD) [No Gas]

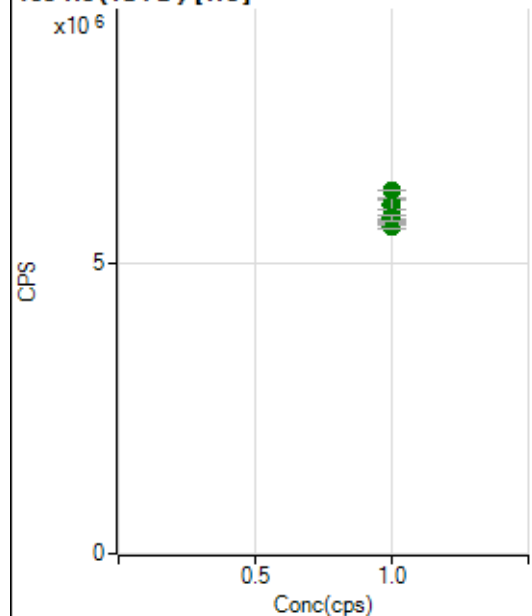
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		16888736.42		A	2.2
2	☐	1.000		16767478.78		A	3.7
3	☐	1.000		16550100.59		A	0.5
4	☐	1.000		16903073.22		A	3.1
5	☐	1.000		17502641.41		A	2.4
6	☐	1.000		17646456.41		A	1.4
7	☐	1.000		18164307.23		A	2.4
8	☐	1.000		17551496.55		A	0.9

159 Tb (ISTD) [He]

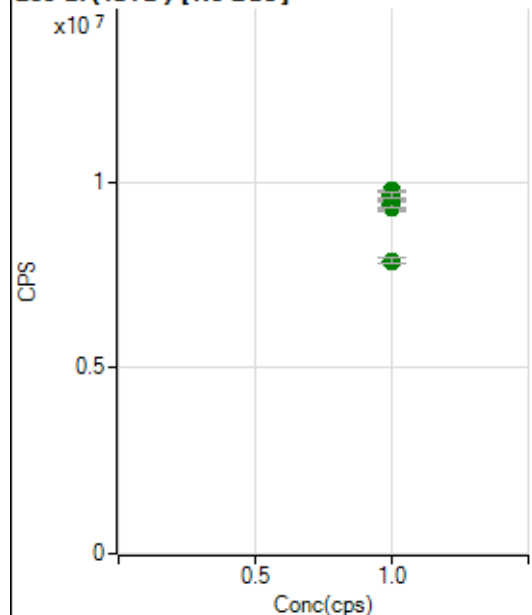
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5613531.69		A	1.5
2	☐	1.000		5693819.22		A	0.9
3	☐	1.000		5751983.46		A	0.3
4	☐	1.000		5881268.53		A	2.2
5	☐	1.000		5717779.64		A	3.4
6	☐	1.000		6069660.60		A	1.1
7	☐	1.000		6134205.81		A	1.6
8	☐	1.000		5908726.51		A	2.6

165 Ho (ISTD) [No Gas]

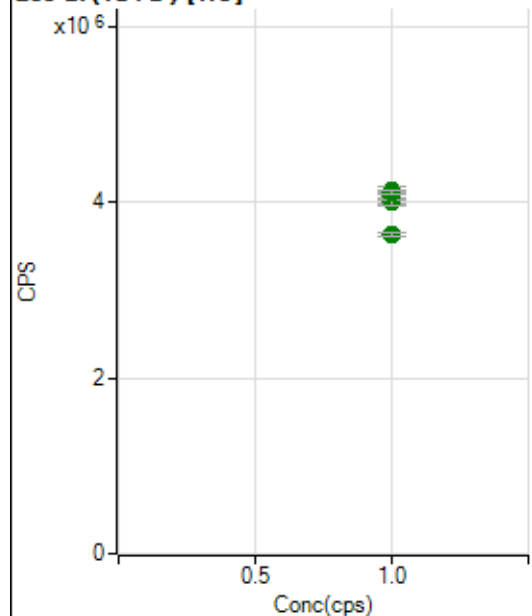
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		15768671.01		A	0.4
2	☐	1.000		15829536.64		A	2.5
3	☐	1.000		15796393.58		A	0.2
4	☐	1.000		16117584.91		A	1.2
5	☐	1.000		17131352.47		A	2.0
6	☐	1.000		16750278.50		A	3.0
7	☐	1.000		17352885.80		A	1.2
8	☐	1.000		16270366.51		A	1.5

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5608725.47		A	1.2
2	☐	1.000		5780659.08		A	1.0
3	☐	1.000		5758733.32		A	2.1
4	☐	1.000		5997035.61		A	2.7
5	☐	1.000		5822041.65		A	3.8
6	☐	1.000		6013875.39		A	3.4
7	☐	1.000		6241654.98		A	0.2
8	☐	1.000		5781508.73		A	1.9

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9341887.43		A	2.7
2	☐	1.000		9391660.97		A	2.0
3	☐	1.000		9378539.93		A	2.4
4	☐	1.000		9437095.69		A	2.3
5	☐	1.000		9768474.37		A	0.7
6	☐	1.000		9688107.01		A	2.2
7	☐	1.000		9645460.69		A	1.9
8	☐	1.000		7880784.33		A	2.0

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4000899.18		A	1.2
2	☐	1.000		4012062.37		A	1.7
3	☐	1.000		4074961.43		A	2.3
4	☐	1.000		4080513.45		A	1.2
5	☐	1.000		3997508.83		A	2.0
6	☐	1.000		4129233.45		A	2.0
7	☐	1.000		4115428.90		A	1.3
8	☐	1.000		3637184.63		A	1.5

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP8041022-MS.b

Acq. Date-Time 2022-04-10 12:04:05

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		25030	250297.03			1.812	5.000
24		162457	1624574.87			1.720	5.000
25		21812	218115.23			1.396	5.000
26		25294	252942.16			2.438	5.000
59		37092	370918.30			2.608	5.000
113		17267	172672.99			2.140	5.000
115		52477	524772.99			4.541	5.000
206		19920	199200.48			2.157	5.000
207		16585	165850.38			2.559	5.000
208		41955	419554.81			2.230	5.000
220		1	6.20			13.494	

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

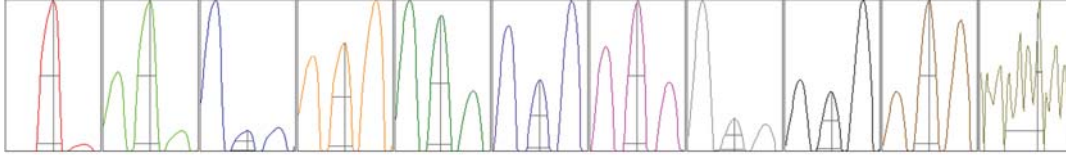
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	25247	25204	24220	25275	25202
24	162134	163175	157846	165035	164097
25	21932	21820	21302	22111	21892
26	25591	25577	24208	25696	25399
59	37568	37527	35363	37459	37542
113	17398	17555	16620	17408	17356
115	55271	54625	49650	51611	51230
206	19996	20221	19172	20023	20189
207	16511	16742	15882	16850	16940
208	42217	42527	40299	42473	42262

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	44496.57	9.05	8.90 - 9.10	
24	294651.30	24.00	23.90 - 24.10	
25	39520.48	25.00	24.90 - 25.10	
26	44854.16	26.00	25.90 - 26.10	
59	68739.35	58.95	58.90 - 59.10	
113	34491.07	113.00	112.90 - 113.10	
115	105473.62	115.00	114.90 - 115.10	
206	39280.29	206.00	205.90 - 206.10	
207	32393.46	207.00	206.90 - 207.10	
208	82348.71	208.00	207.90 - 208.10	
220	1.05	220.35	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.60	0.780	0.900	
24	0.58	0.781	0.900	
25	0.59	0.770	0.900	
26	0.60	0.745	0.900	
59	0.57	0.772	0.900	
113	0.52	0.694	0.900	
115	0.52	0.723	0.900	
206	0.51	0.765	0.900	
207	0.52	0.771	0.900	
208	0.52	0.776	0.900	
220	0.20	1.202		

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	1.40 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	9.0 V	Deflect	15.4 V
Extract 2	-145.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-75 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	170 V		

QP Parameters

Mass Gain	123	Axis Gain	0.9993	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	-0.03		

Hardware Settings

Torch

Torch H	-0.4 mm	Torch V	-0.1 mm
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EM

Discriminator	4.0 mV	Analog HV	2292 V	Pulse HV	1648 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		6392	63917.62			0.332	
89		22835	228348.20			0.560	
205		38179	381785.93			1.297	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	6400	6369	6398	6420	6372
89	22930	22788	23003	22761	22692
205	37950	37827	38663	37694	38758

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.75 L/min	Dilution Gas	0.40 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	9.0 V	Deflect	4.2 V
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US EPA Tune Check Report

Extract 2	-145.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-75 V	Cell Exit	-70 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	4.5 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		

QP Parameters

Mass Gain	123	Axis Gain	0.9993	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.03		

Hardware Settings

Torch

Torch H	-0.4 mm	Torch V	-0.1 mm
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EM

Discriminator	4.0 mV	Analog HV	2292 V	Pulse HV	1648 V
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