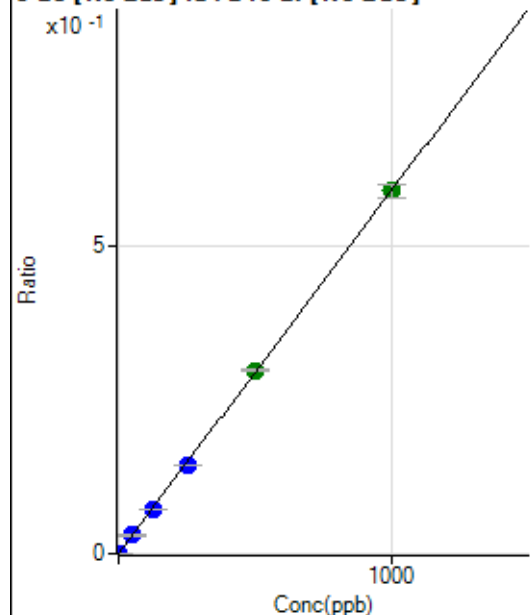


Calibration for 008CALS.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P8052124-ML.b\
 Analysis File: P8052124-ML.batch.bin
 DA Date-Time: 2024-05-21 18:56:09
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2024-05-21 13:21:58
2	006CALS.d	S02	2024-05-21 13:28:42
3	007CALS.d	S03	2024-05-21 13:32:03
4	008CALS.d	S04	2024-05-21 13:35:11
5	009CALS.d	S05	2024-05-21 13:38:13
6	010CALS.d	S06	2024-05-21 13:41:18
7	011CALS.d	S07	2024-05-21 13:44:20
8	012CALS.d	S08	2024-05-21 13:47:24

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	253.30	0.0000	P	5.3
2	☐	1.000	0.934	3343.72	0.0006	P	2.0
3	☐	50.000	50.592	163374.23	0.0300	P	2.8
4	☐	125.000	121.455	401440.77	0.0719	P	2.0
5	☐	250.000	244.007	783422.37	0.1444	P	0.7
6	☐	500.000	505.209	1552972.78	0.2989	A	0.7
7	☐	1000.000	999.307	2943306.81	0.5911	A	3.5
8	☐			1061.58	0.0002	P	15.8

$$y = 5.9145E-004 * x + 4.4912E-005$$

$$R = 1.0000$$

$$DL = 0.01213$$

$$BEC = 0.07594$$

Weight: <None>

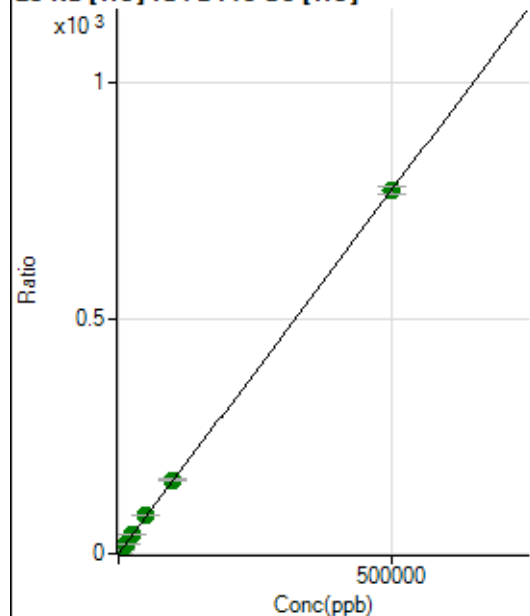
Min Conc: 0

12 C [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			4583945.63		A	0.3
2	☐			4611584.38		A	1.6
3	☐			4521961.42		A	1.8
4	☐			4579493.82		A	1.5
5	☐			4654982.19		A	1.3
6	☐			4983481.42		A	2.5
7	☐			4915332.91		A	3.2
8	☐			4532817.08		A	1.9

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			44792.63		P	0.6
2	☐			46113.24		P	0.5
3	☐			44626.46		P	1.0
4	☐			45036.61		P	1.9
5	☐			47124.22		P	0.4
6	☐			50078.40		P	1.4
7	☐			51480.88		P	1.4
8	☐			53162.51		P	1.6

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	32437.13	0.1178	P	0.6
2	☐	500.000	470.192	234128.56	0.8432	P	1.9
3	☐	5000.000	5408.260	2313694.20	8.4618	A	0.4
4	☐	12500.000	13381.915	5645797.55	20.7636	A	2.2
5	☐	25000.000	26328.726	11044078.03	40.7382	A	0.8
6	☐	50000.000	52412.207	21388821.21	80.9802	A	1.6
7	☐	100000.00	101557.37	42196878.82	156.8022	A	2.0
8	☐	500000.00	499354.76	207003948.0	770.5305	A	2.2

$$y = 0.0015 * x + 0.1178$$

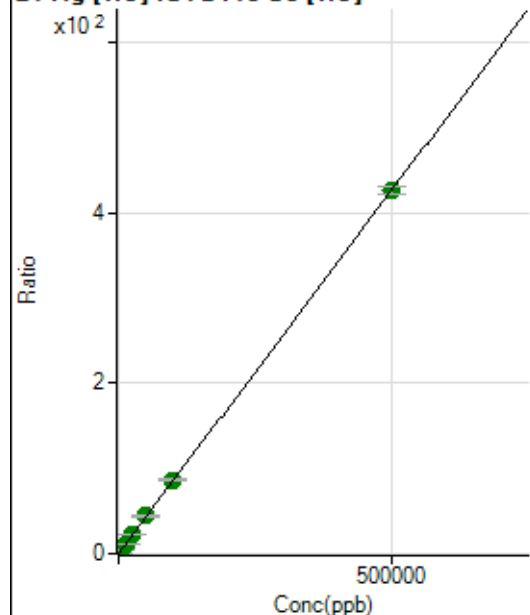
$$R = 1.0000$$

$$DL = 1.302$$

$$BEC = 76.35$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	336.68	0.0012	P	60.3
2	☐	500.000	479.877	113842.74	0.4100	P	2.7
3	☐	5000.000	5427.849	1264622.06	4.6249	A	1.7
4	☐	12500.000	13414.425	3107456.10	11.4282	A	2.2
5	☐	25000.000	26498.648	6119872.83	22.5738	A	1.7
6	☐	50000.000	51785.959	11651131.77	44.1146	A	2.3
7	☐	100000.00	101007.83	23149172.71	86.0438	A	3.2
8	☐	500000.00	499517.78	114318574.9	425.5106	A	2.0

$$y = 8.5184\text{E-}004 * x + 0.0012$$

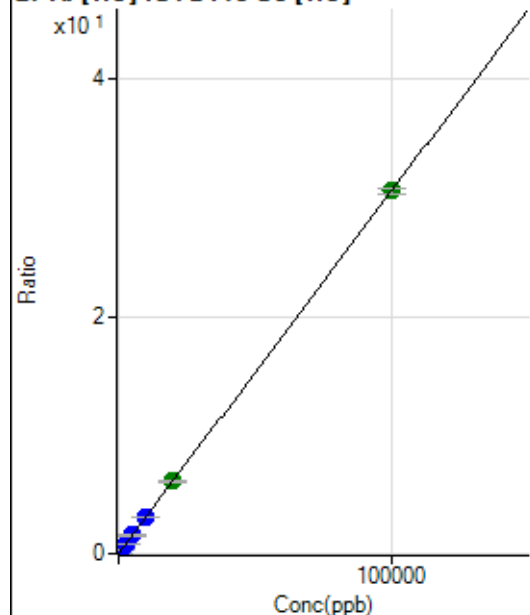
$$R = 1.0000$$

$$DL = 2.599$$

$$BEC = 1.437$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	132.22	0.0005	P	42.8
2	☐	20.000	18.717	1723.45	0.0062	P	4.3
3	☐	1000.000	1024.383	85815.82	0.3139	P	1.2
4	☐	2500.000	2538.395	211300.17	0.7770	P	1.0
5	☐	5000.000	5037.924	417936.97	1.5417	P	0.3
6	☐	10000.000	9948.364	803981.01	3.0439	P	1.5
7	☐	20000.000	19937.094	1641068.68	6.0996	A	3.3
8	☐	100000.00	100014.64	8220128.21	30.5969	A	1.9

$$y = 3.0592\text{E-}004 * x + 4.7967\text{E-}004$$

$$R = 1.0000$$

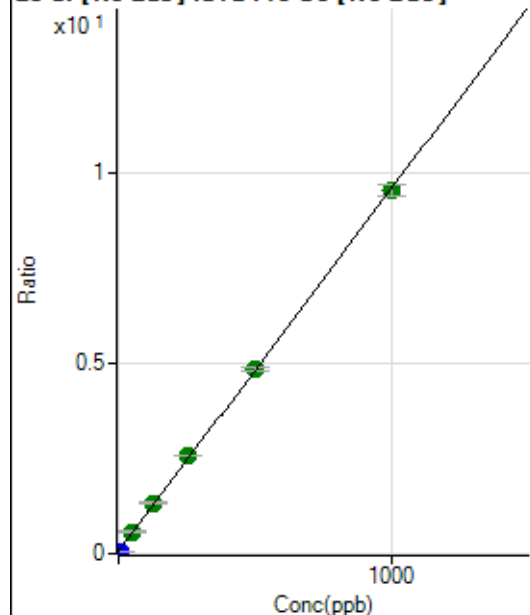
$$DL = 2.015$$

$$BEC = 1.568$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	545694.29	0.0614	P	3.5
2	☐	10.000	0.463	590504.78	0.0658	P	0.7
3	☐	50.000	53.779	5078616.45	0.5735	A	5.4
4	☐	125.000	132.116	11812572.74	1.3194	A	2.8
5	☐	250.000	264.277	22857839.10	2.5778	A	1.5
6	☐	500.000	504.058	42925732.14	4.8610	A	1.9
7	☐	1000.000	993.419	80084461.59	9.5206	A	3.2
8	☐			1516443.69	0.1809	A	2.8

$$y = 0.0095 * x + 0.0614$$

$$R = 0.9998$$

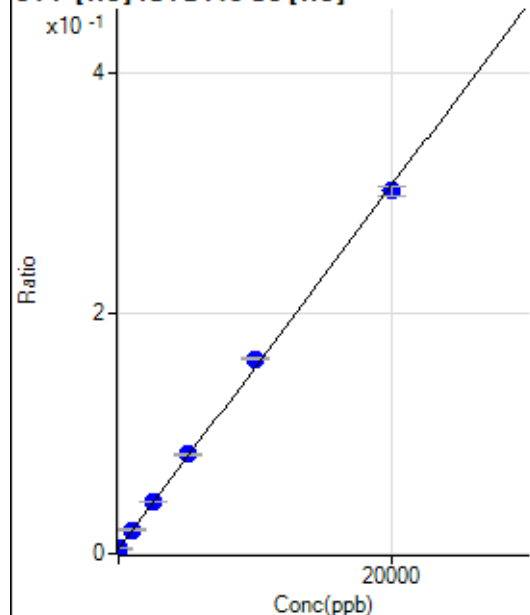
$$DL = 0.6707$$

$$BEC = 6.451$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	-14.978	1048.94	0.0038	P	4.7
2	☐	0.000	14.978	1184.51	0.0043	P	5.4
3	☐	1000.000	1036.676	5394.39	0.0197	P	3.9
4	☐	2500.000	2575.945	11701.46	0.0430	P	1.2
5	☐	5000.000	5192.115	22399.58	0.0826	P	1.2
6	☐	10000.000	10466.724	42909.95	0.1625	P	1.7
7	☐	20000.000	19707.282	81347.67	0.3023	P	2.8
8	☐			1113.39	0.0041	P	9.4

$$y = 1.5136E-005 * x + 0.0040$$

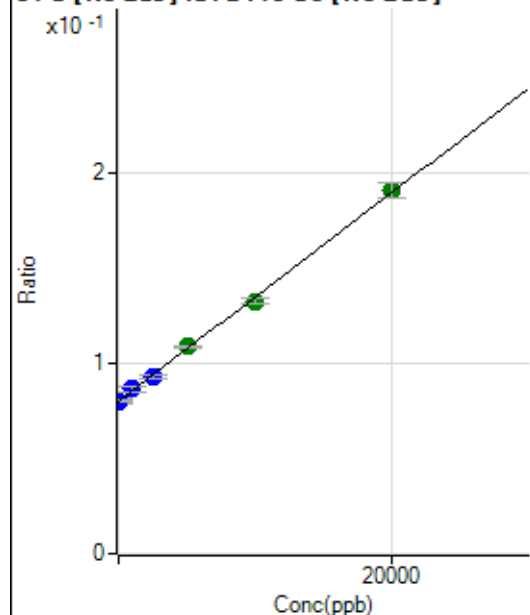
$$R = 0.9995$$

$$DL = 40.39$$

$$BEC = 266.7$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	10.892	714026.36	0.0804	P	4.1
2	☐	0.000	-10.892	719975.15	0.0803	P	0.6
3	☐	1000.000	1146.563	767225.21	0.0866	P	4.1
4	☐	2500.000	2320.225	833120.82	0.0930	P	1.7
5	☐	5000.000	5219.283	966022.91	0.1089	A	0.8
6	☐	10000.000	9603.555	1174170.60	0.1330	A	2.7
7	☐	20000.000	20158.545	1604810.13	0.1908	A	4.2
8	☐			592689.63	0.0708	P	3.4

$$y = 5.4825E-006 * x + 0.0803$$

$$R = 0.9996$$

$$DL = 1041$$

$$BEC = 1.465E+04$$

Weight: <None>

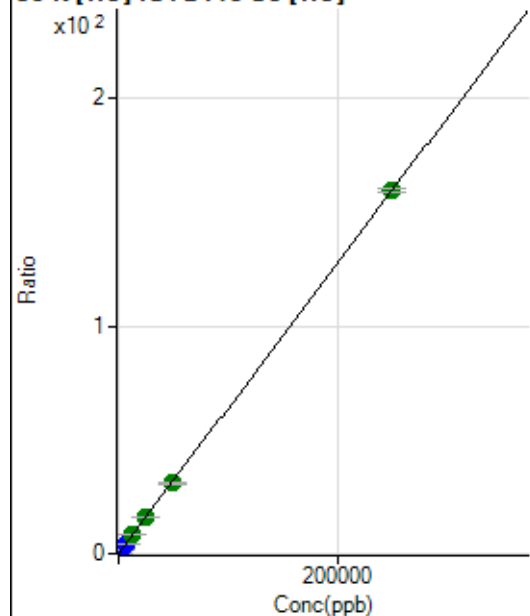
Min Conc: 0

35 Cl [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			391734.97		P	0.6
2	☐			391812.19		P	1.1
3	☐			402806.92		P	0.4
4	☐			400761.52		P	0.6
5	☐			380335.94		P	1.2
6	☐			363223.96		P	0.8
7	☐			333064.69		P	0.6
8	☐			289061.16		P	0.8

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			2370.22		P	6.0
2	☐			2421.34		P	2.6
3	☐			2399.12		P	2.4
4	☐			2362.44		P	2.0
5	☐			2301.32		P	2.2
6	☐			2262.42		P	6.2
7	☐			2074.61		P	1.6
8	☐			1880.15		P	3.0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	24352.82	0.0885	P	2.1
2	☐	500.000	445.727	103337.63	0.3722	P	2.1
3	☐	2500.000	2416.728	444807.79	1.6268	P	0.7
4	☐	6250.000	6063.481	1073600.83	3.9481	P	1.3
5	☐	12500.000	12594.719	2197322.60	8.1055	A	0.5
6	☐	25000.000	25025.638	4230662.75	16.0183	A	1.9
7	☐	50000.000	48489.755	8327899.39	30.9542	A	3.3
8	☐	250000.00	250300.35	42834063.81	159.4149	A	1.0

$$y = 6.3654E-004 * x + 0.0885$$

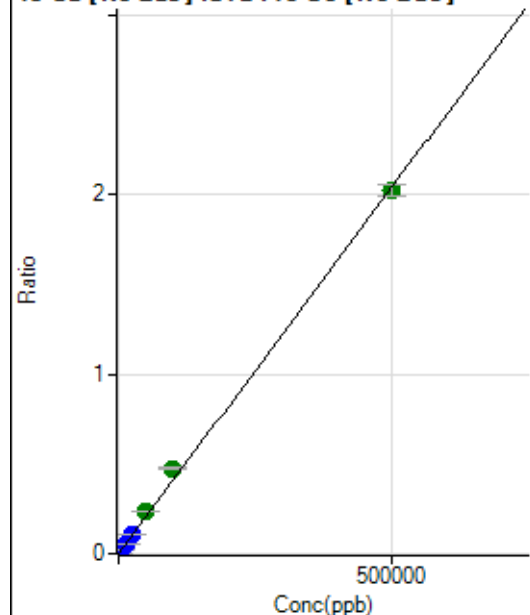
$$R = 1.0000$$

$$DL = 8.565$$

$$BEC = 139$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	557.80	0.0001	P	6.7
2	☐	500.000	453.638	17135.84	0.0019	P	1.9
3	☐	5000.000	5482.810	198347.53	0.0224	P	4.2
4	☐	12500.000	13527.212	493815.72	0.0552	P	2.0
5	☐	25000.000	27048.730	977353.76	0.1102	P	0.9
6	☐	50000.000	57800.438	2079122.58	0.2355	A	2.4
7	☐	100000.00	116815.42	4001315.53	0.4758	A	3.9
8	☐	500000.00	495723.97	16912147.39	2.0189	A	3.3

$$y = 4.0725\text{E-}006 * x + 6.2831\text{E-}005$$

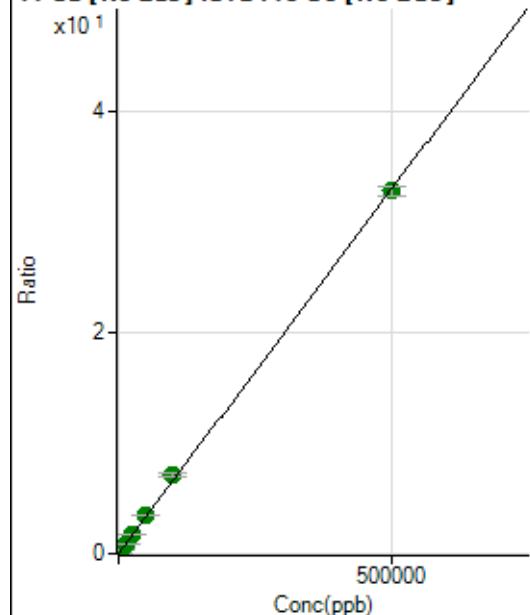
$$R = 0.9993$$

$$DL = 3.102$$

$$BEC = 15.43$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	21960.14	0.0025	P	3.7
2	☐	500.000	448.605	286773.56	0.0320	P	0.2
3	☐	5000.000	5502.517	3226683.59	0.3643	A	4.5
4	☐	12500.000	13337.425	7876560.51	0.8795	A	1.2
5	☐	25000.000	26776.616	15634778.24	1.7632	A	1.7
6	☐	50000.000	53261.439	30946478.99	3.5047	A	2.6
7	☐	100000.00	108225.53	59856059.66	7.1189	A	4.6
8	☐	500000.00	497914.00	274292431.4	32.7430	A	2.9

$$y = 6.5755\text{E-}005 * x + 0.0025$$

$$R = 0.9998$$

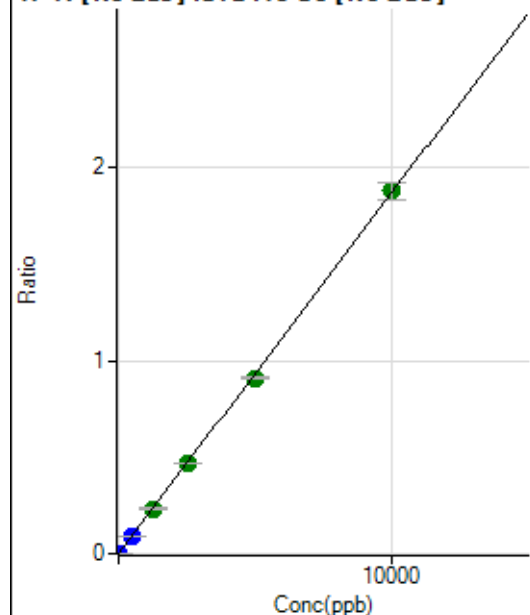
$$DL = 4.201$$

$$BEC = 37.59$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	198.89	0.0000	P	19.6
2	☐	5.000	4.590	7891.14	0.0009	P	2.4
3	☐	500.000	490.934	812300.62	0.0917	P	4.8
4	☐	1250.000	1253.464	2096774.19	0.2341	A	1.0
5	☐	2500.000	2503.422	4146326.47	0.4676	A	0.7
6	☐	5000.000	4867.092	8028022.94	0.9091	A	1.4
7	☐	10000.000	10065.619	15806055.46	1.8800	A	4.9
8	☐			4637.72	0.0006	P	26.9

$$y = 1.8677E-004 * x + 2.2479E-005$$

$$R = 0.9999$$

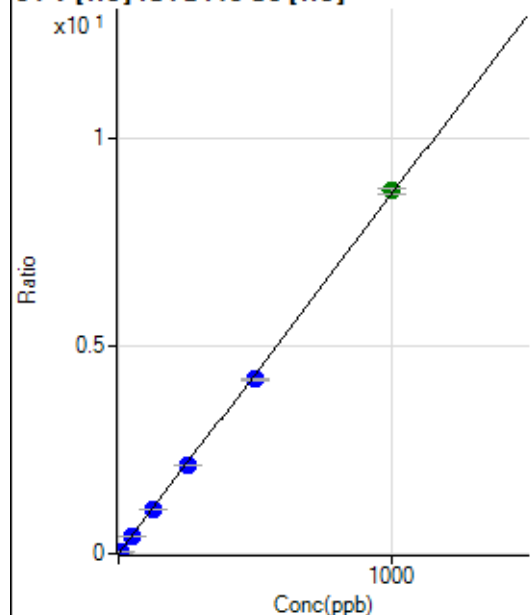
$$DL = 0.07066$$

$$BEC = 0.1204$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	20.00	0.0001	P	88.5
2	☐	5.000	4.696	11285.66	0.0407	P	4.0
3	☐	50.000	48.809	115364.95	0.4219	P	1.7
4	☐	125.000	123.566	290465.99	1.0681	P	0.3
5	☐	250.000	244.285	572400.17	2.1114	P	0.4
6	☐	500.000	485.333	1107998.54	4.1948	P	1.5
7	☐	1000.000	1009.002	2346880.38	8.7209	A	1.9
8	☐			1020.05	0.0038	P	3.5

$$y = 0.0086 * x + 7.2631E-005$$

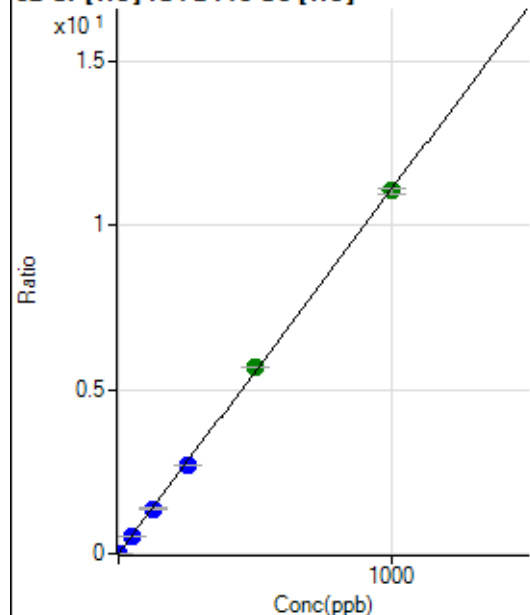
$$R = 0.9998$$

$$DL = 0.02232$$

$$BEC = 0.008403$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1032.28	0.0037	P	1.3
2	☐	2.000	1.865	6781.69	0.0244	P	2.7
3	☐	50.000	48.609	148393.64	0.5427	P	0.8
4	☐	125.000	123.234	372601.14	1.3702	P	0.9
5	☐	250.000	243.283	732281.60	2.7013	P	0.7
6	☐	500.000	512.283	1501384.68	5.6839	A	0.8
7	☐	1000.000	995.828	2972877.80	11.0454	A	1.5
8	☐			41158.05	0.1532	P	2.1

$$y = 0.0111 * x + 0.0037$$

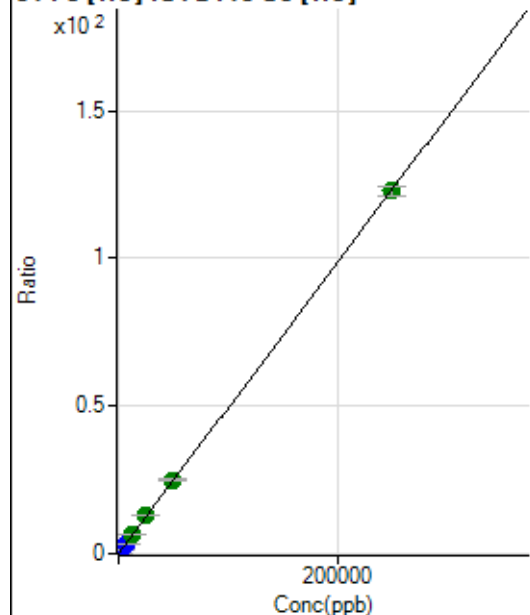
$$R = 0.9999$$

$$DL = 0.01365$$

$$BEC = 0.3381$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	685.58	0.0025	P	8.3
2	☐	50.000	48.188	7267.45	0.0262	P	4.5
3	☐	2500.000	2608.515	351339.15	1.2849	P	1.0
4	☐	6250.000	6471.068	865786.89	3.1839	P	1.8
5	☐	12500.000	13355.991	1780756.78	6.5689	A	0.6
6	☐	25000.000	26059.682	3384543.49	12.8145	A	1.8
7	☐	50000.000	50524.774	6685147.75	24.8426	A	2.1
8	☐	250000.00	249739.66	32984775.90	122.7852	A	2.6

$$y = 4.9164E-004 * x + 0.0025$$

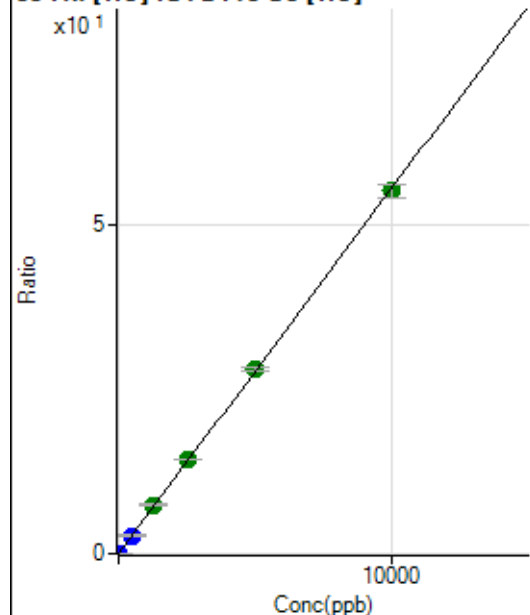
$$R = 1.0000$$

$$DL = 1.266$$

$$BEC = 5.062$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	237.78	0.0009	P	13.4
2	☐	1.000	0.934	1681.23	0.0061	P	4.4
3	☐	500.000	498.797	758502.85	2.7741	P	1.0
4	☐	1250.000	1341.198	2028268.46	7.4577	A	1.3
5	☐	2500.000	2578.274	3886141.85	14.3357	A	1.2
6	☐	5000.000	5064.209	7437023.43	28.1572	A	1.5
7	☐	10000.000	9936.987	14863599.09	55.2491	A	3.4
8	☐			8965.13	0.0334	P	1.7

$$y = 0.0056 * x + 8.6389E-004$$

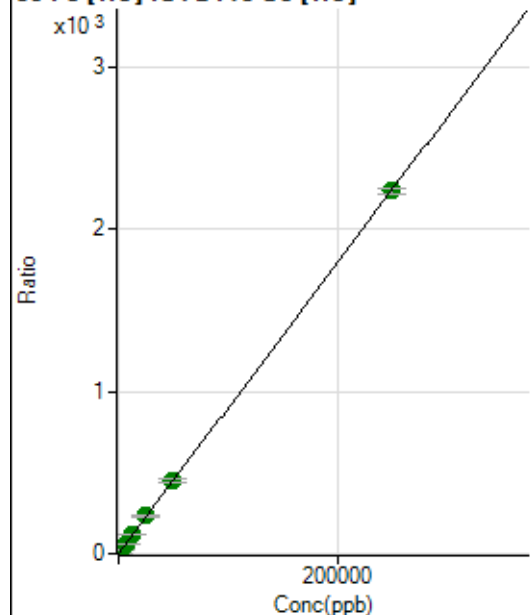
$$R = 0.9999$$

$$DL = 0.06264$$

$$BEC = 0.1554$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	7187.75	0.0261	P	11.9
2	☐	50.000	47.724	125872.54	0.4533	P	2.1
3	☐	2500.000	2650.723	6495008.23	23.7548	A	1.0
4	☐	6250.000	6603.536	16083110.73	59.1394	A	0.5
5	☐	12500.000	12999.806	31553674.53	116.3972	A	1.9
6	☐	25000.000	25866.075	61161100.20	231.5730	A	2.1
7	☐	50000.000	50311.071	121169799.3	450.3987	A	3.4
8	☐	250000.00	249815.84	600820968.8	2,236.317	A	1.8

$$y = 0.0090 * x + 0.0261$$

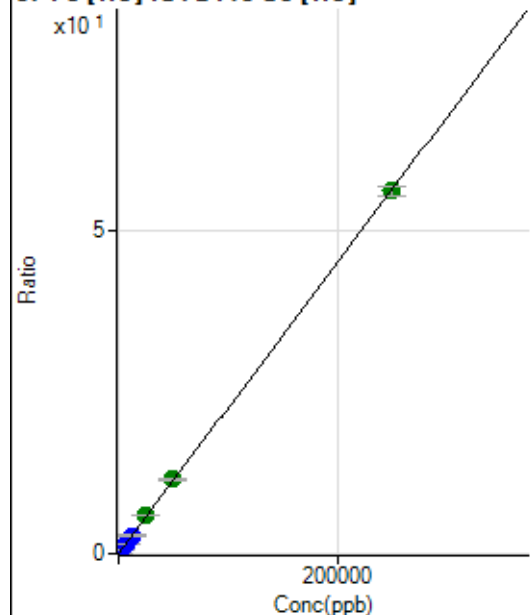
$$R = 1.0000$$

$$DL = 1.038$$

$$BEC = 2.919$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	421.12	0.0015	P	22.5
2	☐	50.000	47.847	3409.33	0.0123	P	3.6
3	☐	2500.000	2542.893	156669.07	0.5730	P	1.0
4	☐	6250.000	6374.646	390007.96	1.4341	P	0.4
5	☐	12500.000	12547.301	764833.32	2.8213	P	0.3
6	☐	25000.000	26518.414	1574379.58	5.9611	A	2.2
7	☐	50000.000	51014.974	3084962.98	11.4663	A	3.1
8	☐	250000.00	249639.25	15071729.50	56.1038	A	2.5

$$y = 2.2473E-004 * x + 0.0015$$

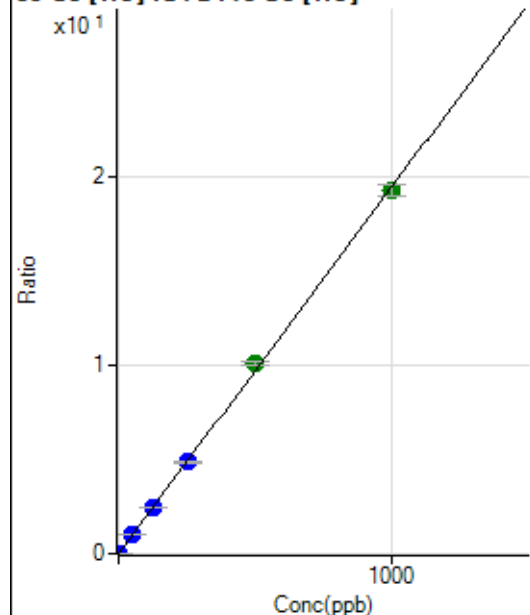
$$R = 1.0000$$

$$DL = 4.578$$

$$BEC = 6.792$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	133.34	0.0005	P	39.5
2	☐	1.000	0.992	5500.01	0.0198	P	2.2
3	☐	50.000	50.549	269440.50	0.9854	P	0.8
4	☐	125.000	127.146	673872.06	2.4780	P	0.5
5	☐	250.000	250.449	1323057.66	4.8805	P	1.0
6	☐	500.000	518.600	2668965.62	10.1055	A	2.1
7	☐	1000.000	990.292	5191655.58	19.2965	A	3.1
8	☐			13179.51	0.0491	P	2.0

$$y = 0.0195 * x + 4.8435E-004$$

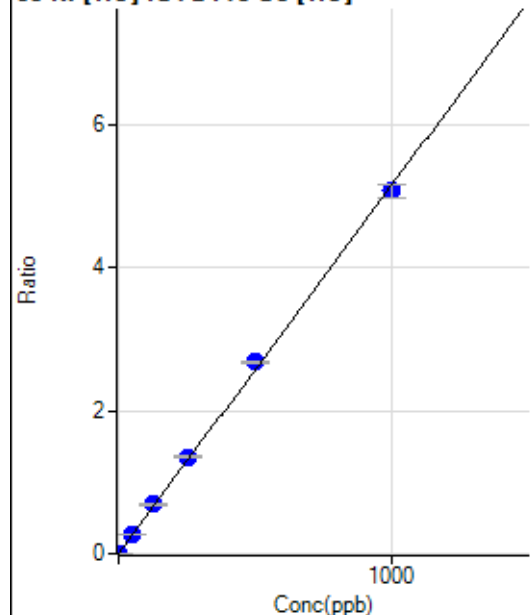
$$R = 0.9997$$

$$DL = 0.02945$$

$$BEC = 0.02486$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	334.45	0.0012	P	4.3
2	☐	1.000	0.955	1700.12	0.0061	P	2.0
3	☐	50.000	53.627	75668.86	0.2767	P	1.0
4	☐	125.000	134.408	188102.01	0.6918	P	2.5
5	☐	250.000	262.217	365541.33	1.3485	P	1.7
6	☐	500.000	520.074	706116.41	2.6733	P	1.5
7	☐	1000.000	985.551	1362580.88	5.0649	P	3.5
8	☐			14551.99	0.0542	P	3.5

$$y = 0.0051 * x + 0.0012$$

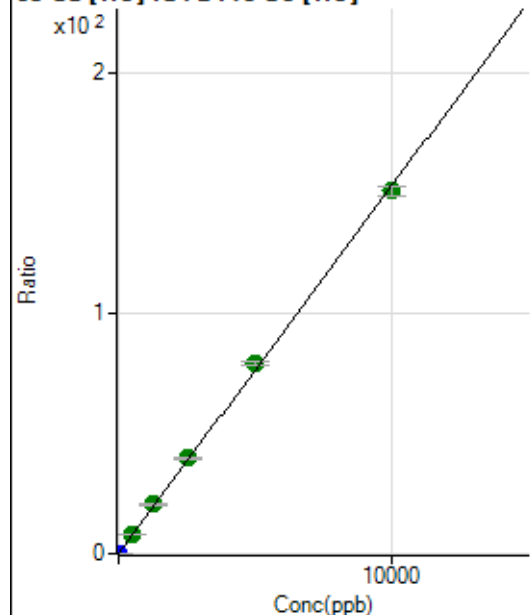
$$R = 0.9996$$

$$DL = 0.03036$$

$$BEC = 0.2364$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	4208.45	0.0153	P	2.1
2	☐	2.000	1.921	12389.94	0.0446	P	3.4
3	☐	500.000	537.236	2248149.95	8.2226	A	2.0
4	☐	1250.000	1334.521	5547881.10	20.4026	A	1.7
5	☐	2500.000	2589.996	10730168.59	39.5823	A	1.1
6	☐	5000.000	5185.786	20928262.19	79.2378	A	1.8
7	☐	10000.000	9872.181	40584307.45	150.8312	A	3.0
8	☐			12416.69	0.0462	P	4.6

$$y = 0.0153 * x + 0.0153$$

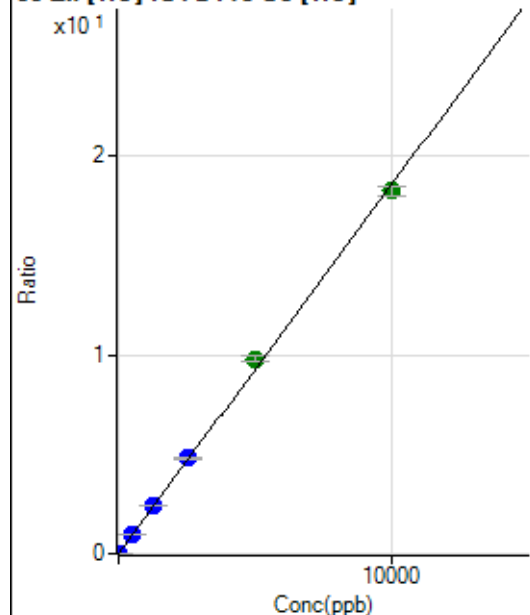
$$R = 0.9997$$

$$DL = 0.06431$$

$$BEC = 1$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	536.68	0.0019	P	1.6
2	☐	2.000	4.728	2977.01	0.0107	P	4.0
3	☐	500.000	520.985	264840.04	0.9686	P	1.0
4	☐	1250.000	1303.689	658287.87	2.4209	P	1.6
5	☐	2500.000	2583.949	1300267.81	4.7963	P	0.8
6	☐	5000.000	5269.862	2582799.65	9.7799	A	2.9
7	☐	10000.000	9836.320	4911463.57	18.2528	A	2.4
8	☐			2226.87	0.0083	P	3.7

$$y = 0.0019 * x + 0.0019$$

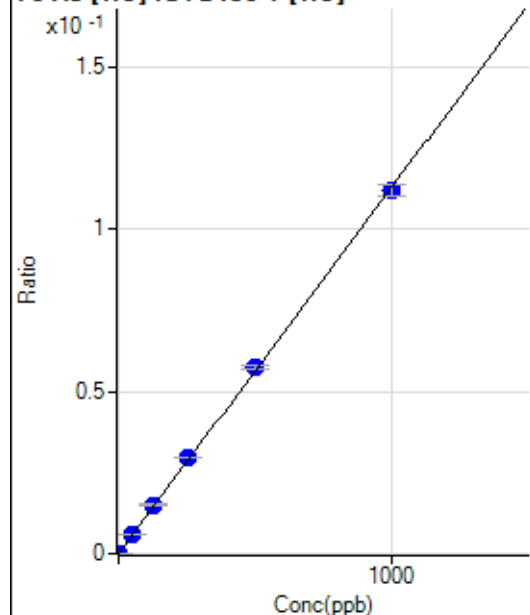
$$R = 0.9994$$

$$DL = 0.05164$$

$$BEC = 1.051$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1.11	0.0000	P	173.2
2	☐	1.000	1.066	290.01	0.0001	P	6.1
3	☐	50.000	51.708	14167.23	0.0058	P	2.6
4	☐	125.000	132.105	35650.65	0.0149	P	2.9
5	☐	250.000	261.536	70392.59	0.0295	P	1.0
6	☐	500.000	509.760	136850.55	0.0575	P	1.1
7	☐	1000.000	991.262	268557.95	0.1119	P	3.3
8	☐			184.45	0.0001	P	13.2

$$y = 1.1288E-004 * x + 4.5943E-007$$

$$R = 0.9998$$

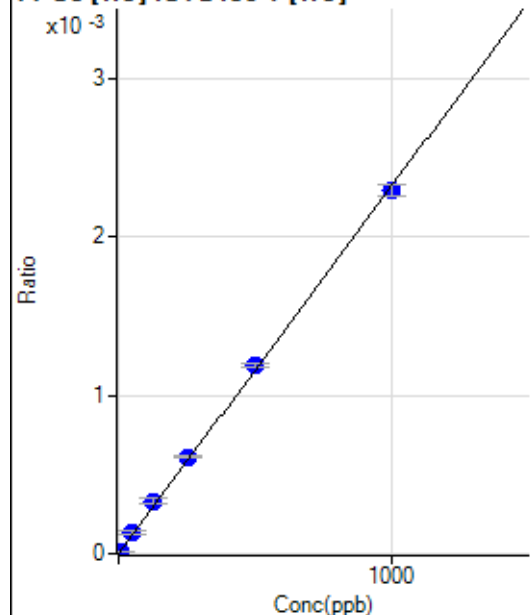
$$DL = 0.02115$$

$$BEC = 0.00407$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	5.374	30.00	0.0000	P	17.6
3	☐	50.000	57.594	324.45	0.0001	P	22.5
4	☐	125.000	141.376	784.47	0.0003	P	11.1
5	☐	250.000	263.932	1458.98	0.0006	P	3.1
6	☐	500.000	513.628	2832.54	0.0012	P	2.1
7	☐	1000.000	987.275	5495.57	0.0023	P	3.3
8	☐			3.33	0.0000	P	101.1

$$y = 2.3188\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9997$$

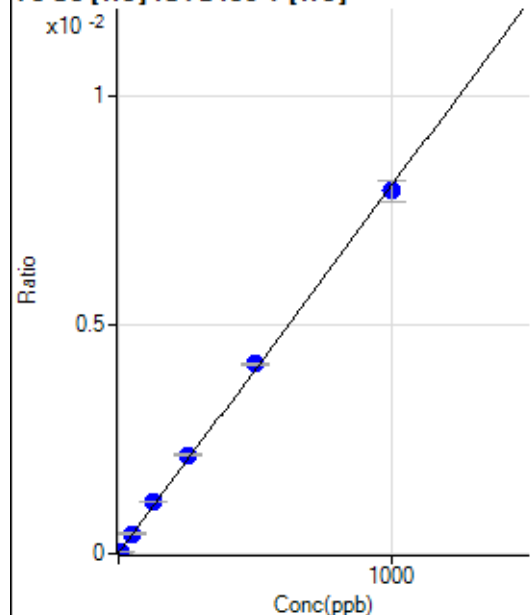
$$DL = 0$$

$$BEC = 0$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	27.78	0.0000	P	31.5
2	☐	5.000	4.904	122.23	0.0001	P	13.7
3	☐	50.000	53.224	1063.39	0.0004	P	5.9
4	☐	125.000	139.744	2705.85	0.0011	P	3.1
5	☐	250.000	267.139	5133.21	0.0022	P	1.0
6	☐	500.000	514.672	9837.98	0.0041	P	0.8
7	☐	1000.000	986.376	18992.95	0.0079	P	5.7
8	☐			36.67	0.0000	P	30.7

$$y = 8.0147\text{E-}006 * x + 1.1597\text{E-}005$$

$$R = 0.9996$$

$$DL = 1.367$$

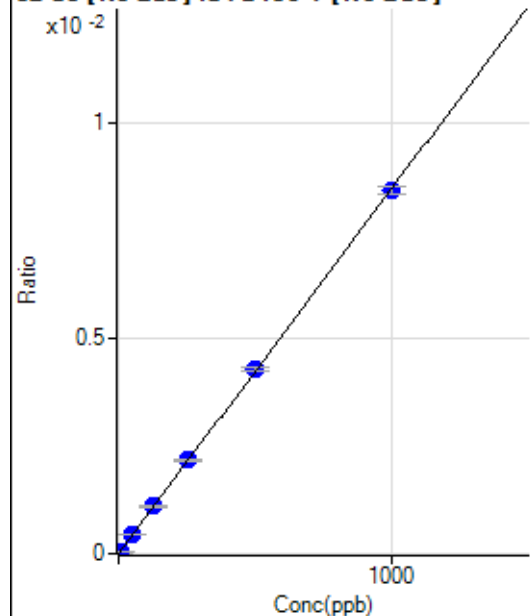
$$BEC = 1.447$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			6552.71		P	2.9
2	☐			6587.19		P	1.9
3	☐			6338.18		P	1.6
4	☐			6100.28		P	3.0
5	☐			6279.26		P	5.1
6	☐			6215.89		P	2.1
7	☐			6038.03		P	3.4
8	☐			6385.96		P	1.3

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1.11	0.0000	P	17700.
2	☐	5.000	4.877	902.29	0.0000	P	1.2
3	☐	50.000	53.812	9770.38	0.0005	P	5.3
4	☐	125.000	129.952	24640.09	0.0011	P	3.5
5	☐	250.000	256.254	47618.50	0.0022	P	1.0
6	☐	500.000	506.156	91998.20	0.0043	P	1.9
7	☐	1000.000	994.549	175232.84	0.0084	P	2.0
8	☐			105.56	0.0000	P	28.5

$$y = 8.4683\text{E-}006 * x + 1.1441\text{E-}008$$

$$R = 0.9999$$

$$DL = 0.7174$$

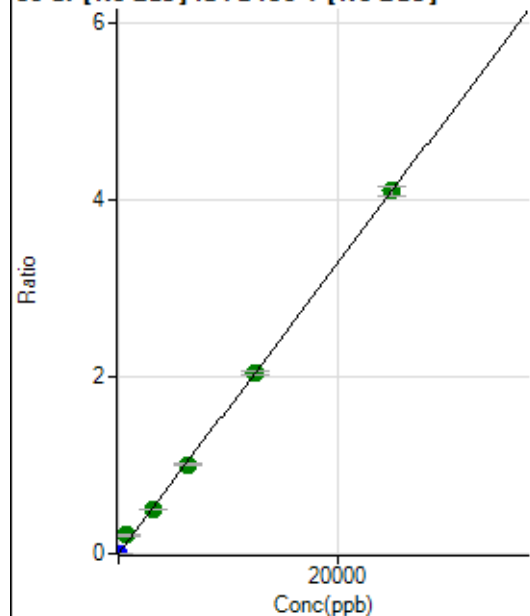
$$BEC = 0.001351$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			305.56		P	7.4
2	☐			300.00		P	10.7
3	☐			324.45		P	1.6
4	☐			306.67		P	2.9
5	☐			303.34		P	14.3
6	☐			280.01		P	6.6
7	☐			331.12		P	14.3
8	☐			318.90		P	8.9

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	524.46	0.0000	P	10.9
2	☐	1.000	0.937	3877.24	0.0002	P	5.0
3	☐	625.000	1267.510	4449459.69	0.2075	A	5.2
4	☐	3125.000	3053.652	11197475.80	0.5000	A	0.7
5	☐	6250.000	6171.188	22169297.17	1.0104	A	2.2
6	☐	12500.000	12443.207	43723871.57	2.0373	A	2.4
7	☐	25000.000	25040.955	85293432.62	4.0998	A	2.6
8	☐			26433.50	0.0013	P	20.7

$$y = 1.6372E-004 * x + 2.4192E-005$$

$$R = 0.9996$$

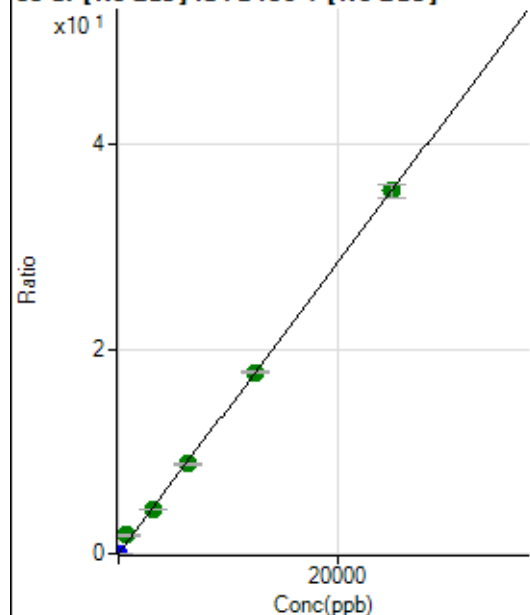
$$DL = 0.04848$$

$$BEC = 0.1478$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	588.91	0.0000	P	13.8
2	☐	1.000	0.930	29402.11	0.0013	P	2.3
3	☐	625.000	1260.157	38343417.21	1.7882	A	4.4
4	☐	3125.000	3011.573	95705017.46	4.2734	A	0.7
5	☐	6250.000	6181.293	192465301.5	8.7711	A	1.5
6	☐	12500.000	12517.954	381262163.2	17.7627	A	1.5
7	☐	25000.000	25006.499	738111606.7	35.4836	A	3.4
8	☐			215153.07	0.0103	P	26.1

$$y = 0.0014 * x + 2.7218E-005$$

$$R = 0.9996$$

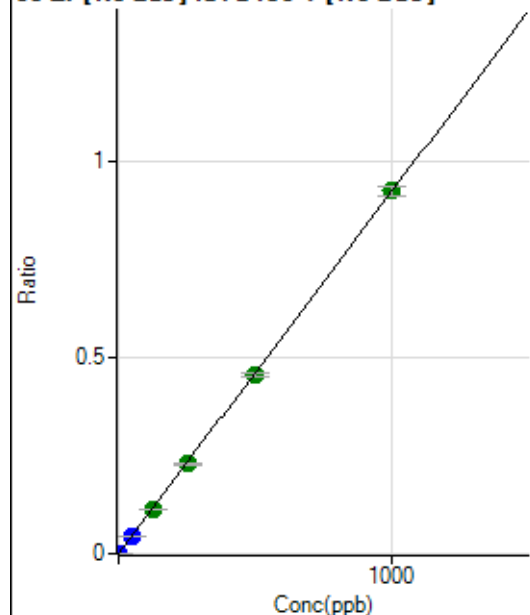
$$DL = 0.007947$$

$$BEC = 0.01918$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1201.18	0.0001	P	5.2
2	☐	1.000	0.849	18302.11	0.0008	P	3.4
3	☐	50.000	48.778	965233.38	0.0450	P	4.1
4	☐	125.000	122.590	2531391.79	0.1130	A	1.9
5	☐	250.000	248.094	5017675.90	0.2287	A	2.7
6	☐	500.000	496.005	9812981.87	0.4572	A	1.9
7	☐	1000.000	1002.837	19228379.16	0.9243	A	2.9
8	☐			12430.44	0.0006	P	8.9

$$y = 9.2163E-004 * x + 5.5403E-005$$

$$R = 1.0000$$

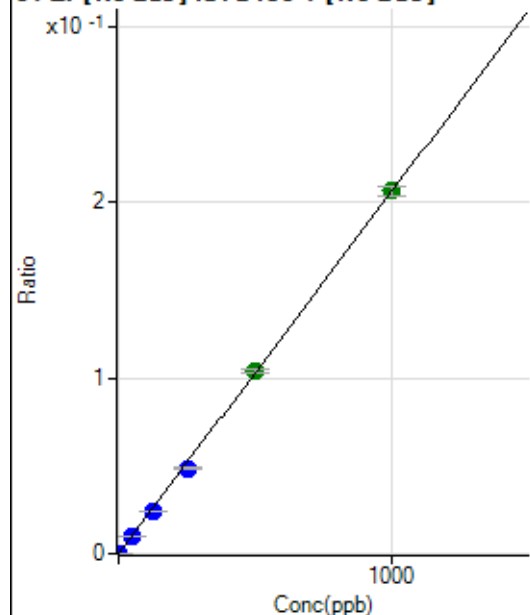
$$DL = 0.009408$$

$$BEC = 0.06011$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	161.11	0.0000	P	19.6
2	☐	1.000	0.834	3910.59	0.0002	P	0.8
3	☐	50.000	48.721	215121.88	0.0100	P	4.4
4	☐	125.000	115.659	533065.81	0.0238	P	2.0
5	☐	250.000	235.521	1063292.00	0.0485	P	3.2
6	☐	500.000	505.041	2230574.78	0.1039	A	1.8
7	☐	1000.000	1002.331	4290970.07	0.2062	A	2.6
8	☐			2650.30	0.0001	P	13.3

$$y = 2.0576\text{E-}004 * x + 7.4600\text{E-}006$$

$$R = 0.9998$$

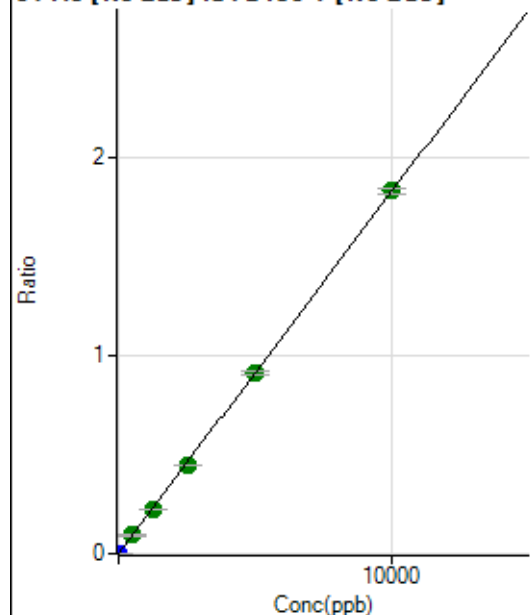
$$DL = 0.02131$$

$$BEC = 0.03626$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	330.01	0.0000	P	3.6
2	☐	5.000	5.228	21176.28	0.0010	P	1.6
3	☐	500.000	514.886	2016218.25	0.0940	A	4.5
4	☐	1250.000	1208.335	4941026.25	0.2206	A	1.6
5	☐	2500.000	2446.327	9801520.69	0.4467	A	1.2
6	☐	5000.000	4988.257	19550287.49	0.9108	A	1.7
7	☐	10000.000	10023.753	38084132.77	1.8302	A	1.5
8	☐			20011.94	0.0010	P	15.7

$$y = 1.8259\text{E-}004 * x + 1.5218\text{E-}005$$

$$R = 1.0000$$

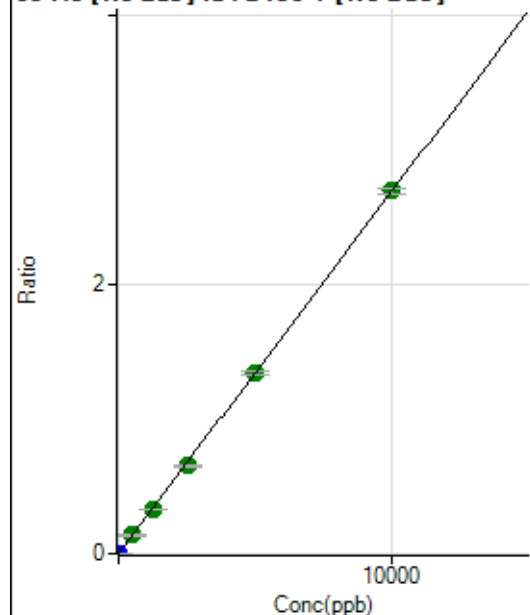
$$DL = 0.008983$$

$$BEC = 0.08335$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	116.67	0.0000	P	9.4
2	☐	5.000	4.442	26181.48	0.0012	P	1.8
3	☐	500.000	511.758	2948879.47	0.1375	A	4.2
4	☐	1250.000	1210.545	7284378.16	0.3253	A	1.2
5	☐	2500.000	2423.168	14286578.40	0.6511	A	1.5
6	☐	5000.000	4992.703	28795631.52	1.3415	A	1.3
7	☐	10000.000	10027.201	56061358.61	2.6943	A	1.8
8	☐			26801.90	0.0013	P	16.5

$$y = 2.6870\text{E-}004 * x + 5.3630\text{E-}006$$

$$R = 1.0000$$

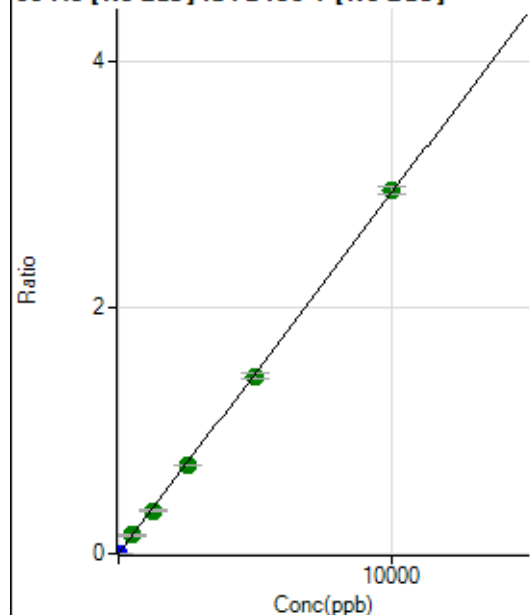
$$DL = 0.005644$$

$$BEC = 0.01996$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	217.78	0.0000	P	15.5
2	☐	5.000	4.363	28127.47	0.0013	P	1.7
3	☐	500.000	513.147	3224027.42	0.1503	A	3.8
4	☐	1250.000	1197.178	7853213.42	0.3507	A	2.2
5	☐	2500.000	2446.713	15728880.18	0.7167	A	1.1
6	☐	5000.000	4926.063	30972012.87	1.4430	A	2.5
7	☐	10000.000	10056.236	61290902.97	2.9459	A	2.1
8	☐			30313.63	0.0015	P	14.8

$$y = 2.9294\text{E-}004 * x + 1.0055\text{E-}005$$

$$R = 0.9999$$

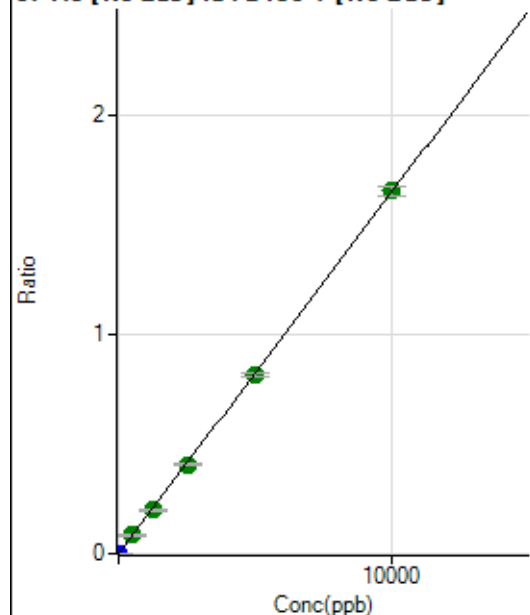
$$DL = 0.016$$

$$BEC = 0.03432$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	88.89	0.0000	P	11.0
2	☐	5.000	4.432	16016.03	0.0007	P	1.6
3	☐	500.000	511.113	1804217.99	0.0841	A	3.0
4	☐	1250.000	1206.264	4444880.63	0.1985	A	2.3
5	☐	2500.000	2471.754	8925629.38	0.4067	A	0.8
6	☐	5000.000	4947.150	17471411.68	0.8141	A	2.6
7	☐	10000.000	10038.398	34366530.05	1.6519	A	2.5
8	☐			16369.47	0.0008	P	15.8

$$y = 1.6456\text{E-}004 * x + 4.0985\text{E-}006$$

$$R = 1.0000$$

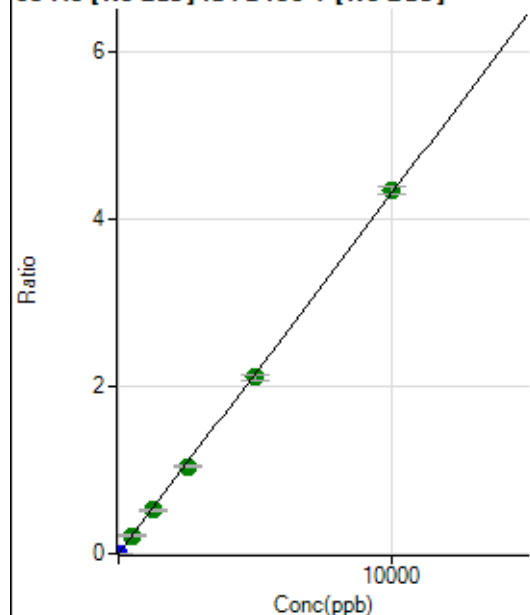
$$DL = 0.008195$$

$$BEC = 0.02491$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	183.34	0.0000	P	25.5
2	☐	5.000	4.354	41192.21	0.0019	P	1.3
3	☐	500.000	505.109	4671240.73	0.2178	A	4.4
4	☐	1250.000	1203.374	11622140.38	0.5190	A	1.6
5	☐	2500.000	2428.020	22976632.16	1.0471	A	1.5
6	☐	5000.000	4896.937	45321648.21	2.1119	A	3.3
7	☐	10000.000	10075.100	90398827.54	4.3451	A	2.3
8	☐			42172.39	0.0020	P	17.7

$$y = 4.3127\text{E-}004 * x + 8.3980\text{E-}006$$

$$R = 0.9999$$

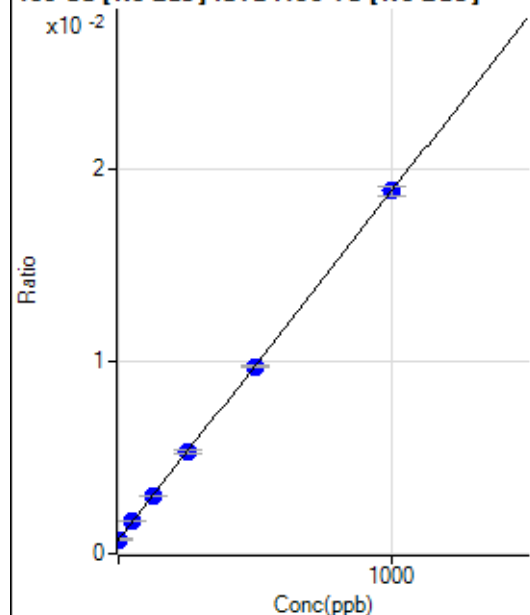
$$DL = 0.01492$$

$$BEC = 0.01947$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	11958.70	0.0007	P	0.9
2	☐	1.000	-0.047	11948.62	0.0007	P	5.5
3	☐	50.000	53.699	27608.85	0.0017	P	2.4
4	☐	125.000	123.540	50162.12	0.0030	P	1.3
5	☐	250.000	252.827	88014.46	0.0053	P	2.8
6	☐	500.000	497.185	160594.51	0.0097	P	1.5
7	☐	1000.000	1000.699	297825.12	0.0189	P	2.6
8	☐			10504.10	0.0007	P	3.0

$$y = 1.8123\text{E-}005 * x + 7.3209\text{E-}004$$

$$R = 1.0000$$

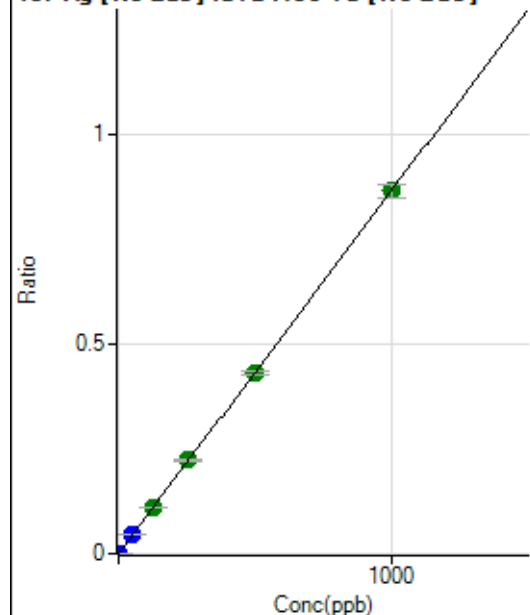
$$DL = 1.102$$

$$BEC = 40.4$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	151.12	0.0000	P	16.7
2	☐	1.000	0.917	13129.70	0.0008	P	2.6
3	☐	50.000	51.611	723427.71	0.0447	P	3.8
4	☐	125.000	125.916	1841074.52	0.1090	A	0.8
5	☐	250.000	257.199	3689662.27	0.2227	A	0.7
6	☐	500.000	496.858	7090940.94	0.4302	A	2.1
7	☐	1000.000	999.576	13659899.93	0.8655	A	3.4
8	☐			2370.30	0.0002	P	26.3

$$y = 8.6588\text{E-}004 * x + 9.2843\text{E-}006$$

$$R = 1.0000$$

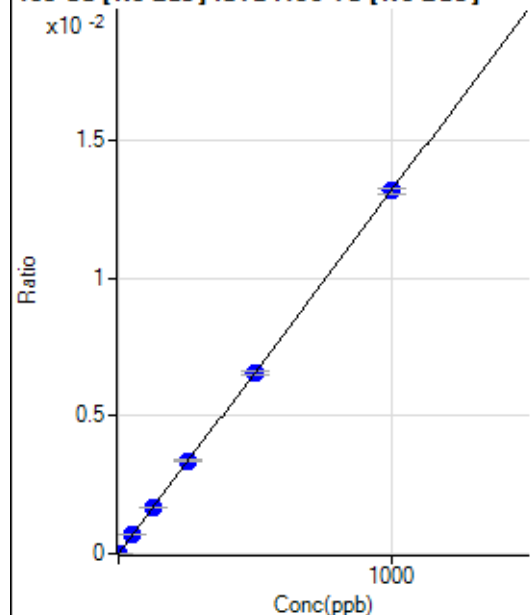
$$DL = 0.005373$$

$$BEC = 0.01072$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	23.33	0.0000	P	21.5
2	☐	1.000	1.040	247.78	0.0000	P	23.1
3	☐	50.000	53.290	11394.80	0.0007	P	3.7
4	☐	125.000	127.665	28446.13	0.0017	P	1.0
5	☐	250.000	256.203	55965.48	0.0034	P	2.5
6	☐	500.000	497.021	108025.23	0.0066	P	2.3
7	☐	1000.000	999.441	208072.45	0.0132	P	1.6
8	☐			176.67	0.0000	P	10.2

$$y = 1.3185\text{E-}005 * x + 1.4227\text{E-}006$$

$$R = 1.0000$$

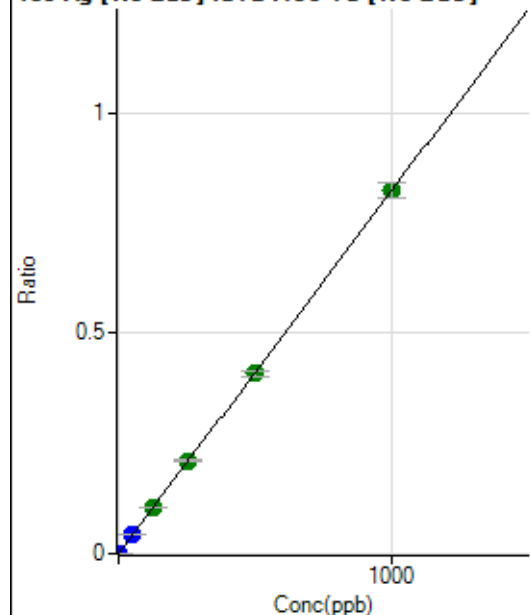
$$DL = 0.06959$$

$$BEC = 0.1079$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	60.00	0.0000	P	13.2
2	☐	1.000	0.937	12674.82	0.0008	P	1.0
3	☐	50.000	52.147	694977.73	0.0429	P	3.7
4	☐	125.000	126.676	1761247.42	0.1043	A	0.7
5	☐	250.000	254.847	3475630.51	0.2098	A	2.1
6	☐	500.000	496.937	6742308.30	0.4092	A	3.6
7	☐	1000.000	1000.003	12992266.75	0.8234	A	4.3
8	☐			2221.37	0.0001	P	14.3

$$y = 8.2338\text{E-}004 * x + 3.6818\text{E-}006$$

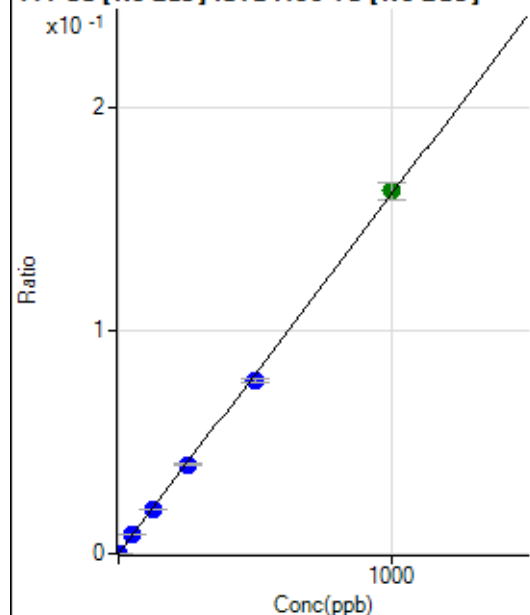
$$R = 1.0000$$

$$DL = 0.001772$$

$$BEC = 0.004472$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	2390.96	0.0001	P	0.9
2	☐	1.000	0.962	4918.80	0.0003	P	4.1
3	☐	50.000	51.510	136315.21	0.0084	P	4.3
4	☐	125.000	122.963	336089.61	0.0199	P	0.5
5	☐	250.000	247.618	661411.98	0.0399	P	2.3
6	☐	500.000	482.230	1279539.26	0.0776	P	2.3
7	☐	1000.000	1009.660	2562089.09	0.1624	A	4.9
8	☐			2722.74	0.0002	P	7.2

$$y = 1.6069E-004 * x + 1.4637E-004$$

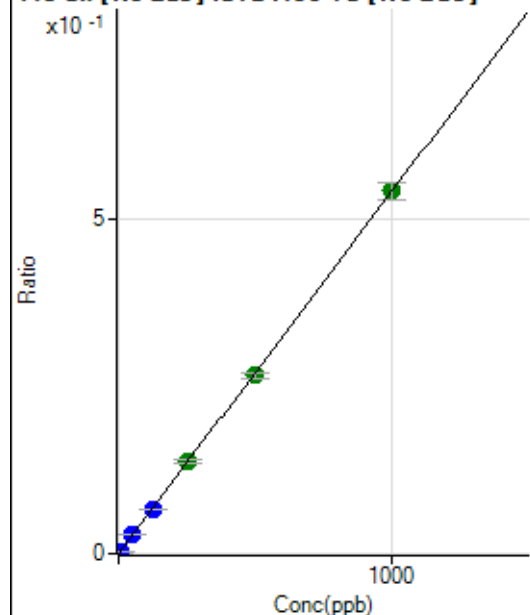
$$R = 0.9998$$

$$DL = 0.02478$$

$$BEC = 0.9109$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	2126.44	0.0001	P	27.4
2	☐	5.000	4.743	44143.29	0.0027	P	3.7
3	☐	50.000	51.267	451811.83	0.0279	P	3.8
4	☐	125.000	122.469	1123000.64	0.0665	P	1.1
5	☐	250.000	256.040	2299963.47	0.1389	A	3.7
6	☐	500.000	491.714	4393713.65	0.2666	A	3.4
7	☐	1000.000	1002.887	8578892.65	0.5437	A	4.4
8	☐			8108.15	0.0005	P	9.3

$$y = 5.4200E-004 * x + 1.3042E-004$$

$$R = 0.9999$$

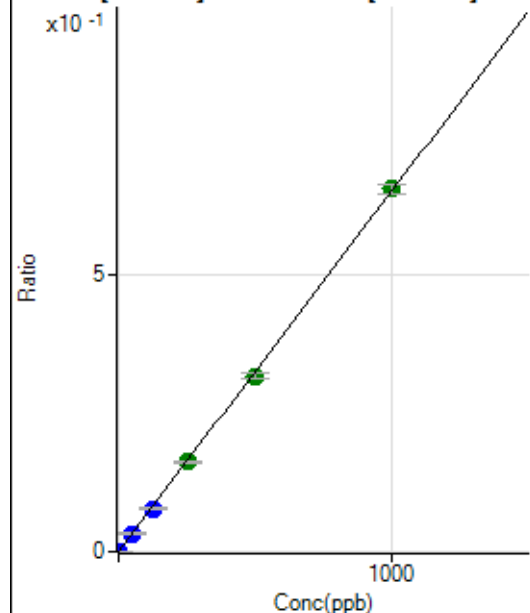
$$DL = 0.1977$$

$$BEC = 0.2406$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	61.11	0.0000	P	23.6
2	☐	2.000	1.880	20091.52	0.0012	P	1.7
3	☐	50.000	50.001	527564.77	0.0326	P	3.6
4	☐	125.000	119.866	1319267.06	0.0781	P	0.4
5	☐	250.000	248.998	2688057.37	0.1623	A	2.4
6	☐	500.000	488.044	5242322.21	0.3181	A	3.2
7	☐	1000.000	1006.870	10358682.90	0.6563	A	3.0
8	☐			9325.59	0.0006	P	8.1

$$y = 6.5182\text{E-}004 * x + 3.7238\text{E-}006$$

$$R = 0.9999$$

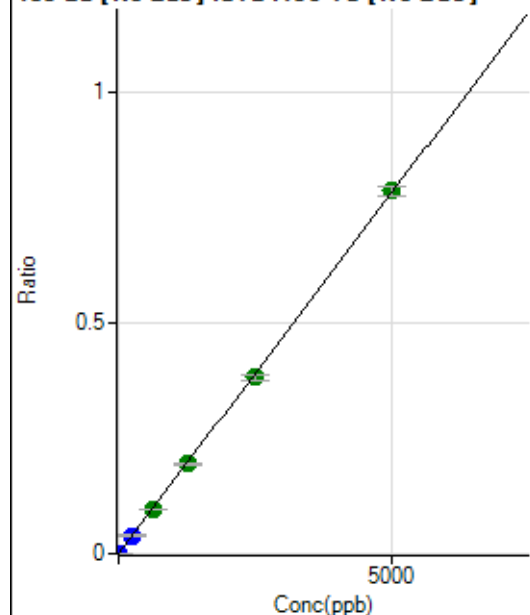
$$DL = 0.004044$$

$$BEC = 0.005713$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	67.78	0.0000	P	21.8
2	☐	10.000	9.263	23757.66	0.0015	P	1.3
3	☐	250.000	252.950	640619.93	0.0396	P	3.8
4	☐	625.000	620.632	1639651.40	0.0971	A	1.0
5	☐	1250.000	1248.349	3234774.92	0.1953	A	2.6
6	☐	2500.000	2448.100	6312486.44	0.3830	A	3.0
7	☐	5000.000	5026.763	12415001.62	0.7865	A	2.7
8	☐			6588.58	0.0004	P	19.0

$$y = 1.5647\text{E-}004 * x + 4.1604\text{E-}006$$

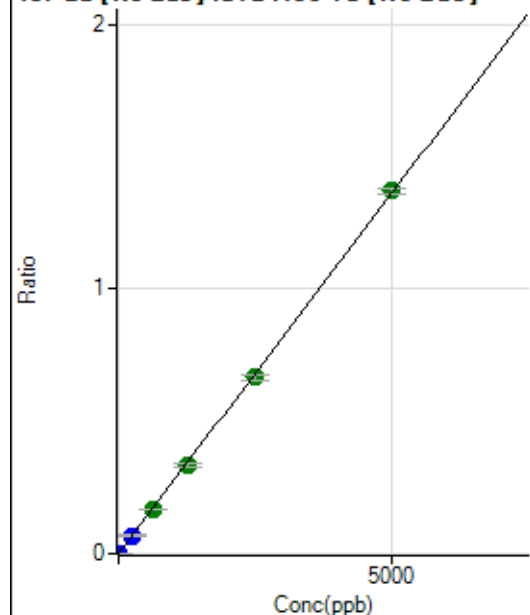
$$R = 0.9999$$

$$DL = 0.01742$$

$$BEC = 0.02659$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	94.44	0.0000	P	23.0
2	☐	10.000	9.354	41677.41	0.0026	P	2.9
3	☐	250.000	252.616	1112286.48	0.0687	P	3.8
4	☐	625.000	620.481	2850066.49	0.1688	A	0.7
5	☐	1250.000	1227.006	5527847.14	0.3338	A	2.6
6	☐	2500.000	2442.146	10947400.95	0.6643	A	3.3
7	☐	5000.000	5035.111	21623631.90	1.3697	A	1.9
8	☐			10979.56	0.0007	P	16.4

$$y = 2.7203\text{E-}004 * x + 5.7849\text{E-}006$$

$$R = 0.9999$$

$$DL = 0.01466$$

$$BEC = 0.02127$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

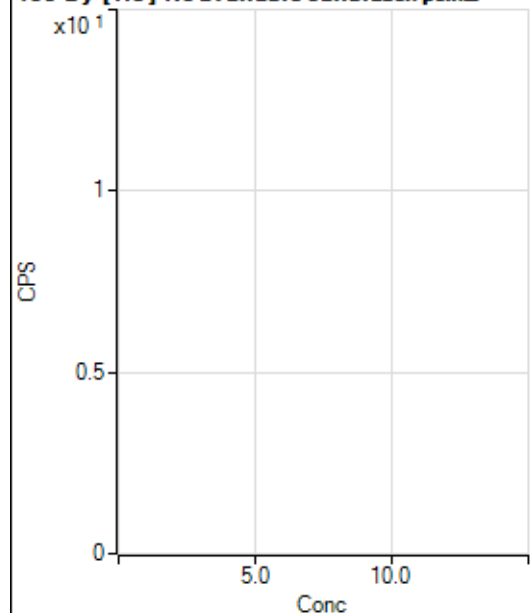
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			20.00		P	16.7
2	☐			21.11		P	24.1
3	☐			63.33		P	24.1
4	☐			154.45		P	10.9
5	☐			260.01		P	5.9
6	☐			484.46		P	5.7
7	☐			922.27		P	7.9
8	☐			250.01		P	17.3

150 Nd [He] No available calibration points

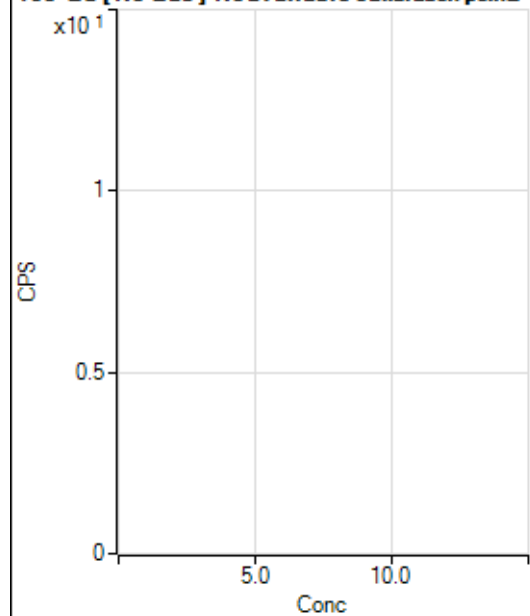
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			5.56		P	34.7
2	☐			5.55		P	69.3
3	☐			14.44		P	53.3
4	☐			21.11		P	24.1
5	☐			32.22		P	23.9
6	☐			44.44		P	18.9
7	☐			88.89		P	11.5
8	☐			94.44		P	19.4

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			17.78		P	10.8
2	☐			35.55		P	19.5
3	☐			41.11		P	36.6
4	☐			77.78		P	13.8
5	☐			123.33		P	15.0
6	☐			223.34		P	14.2
7	☐			412.23		P	6.9
8	☐			315.56		P	9.0

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			6.66		P	86.6
2	☐			13.33		P	66.1
3	☐			12.22		P	15.7
4	☐			48.89		P	10.4
5	☐			86.67		P	7.7
6	☐			148.89		P	12.7
7	☐			264.45		P	2.9
8	☐			163.34		P	10.2

160 Gd [No Gas] Noavailable calibration poin_

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			347.79		P	13.9
2	☐			341.12		P	12.2
3	☐			306.67		P	19.6
4	☐			337.79		P	11.5
5	☐			334.45		P	7.6
6	☐			383.34		P	12.3
7	☐			482.24		P	5.1
8	☐			606.69		P	18.2

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			351.12		P	11.0
2	☐			385.56		P	14.7
3	☐			353.34		P	14.3
4	☐			391.12		P	19.8
5	☐			371.12		P	9.3
6	☐			415.56		P	8.0
7	☐			444.46		P	14.9
8	☐			541.13		P	9.6

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			116.67		P	15.1
2	☐			125.56		P	8.5
3	☐			130.00		P	2.6
4	☐			166.67		P	19.1
5	☐			187.78		P	15.1
6	☐			218.89		P	8.4
7	☐			286.67		P	15.6
8	☐			496.68		P	8.9

164 Er [He] No available calibration points

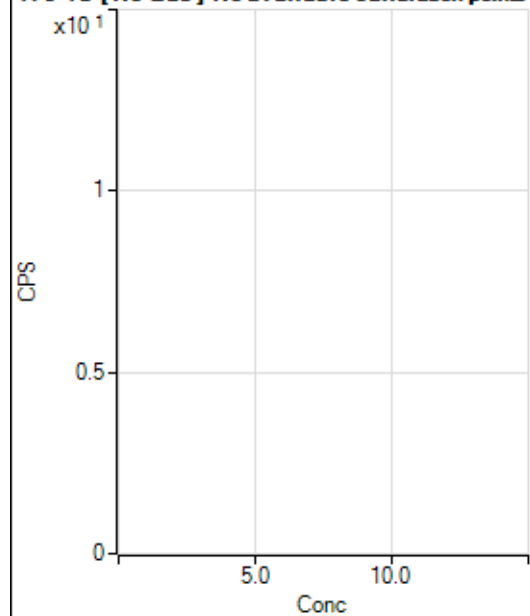
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			51.11		P	39.8
2	☐			53.33		P	22.5
3	☐			68.89		P	32.9
4	☐			67.78		P	24.3
5	☐			80.00		P	25.0
6	☐			110.00		P	13.2
7	☐			147.78		P	3.4
8	☐			211.11		P	14.9

172 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			123.34		P	8.1
2	☐			97.78		P	19.7
3	☐			127.78		P	5.4
4	☐			153.34		P	5.8
5	☐			201.11		P	14.3
6	☐			300.01		P	2.2
7	☐			455.57		P	12.8
8	☐			533.35		P	8.3

172 Yb [He] No available calibration points

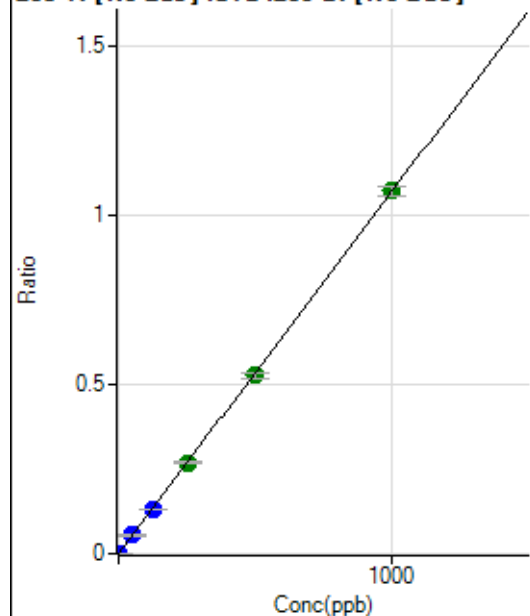
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			56.67		P	40.8
2	☐			68.89		P	7.4
3	☐			65.56		P	15.5
4	☐			81.11		P	22.6
5	☐			95.56		P	19.2
6	☐			143.34		P	12.9
7	☐			240.00		P	6.4
8	☐			281.12		P	7.6

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			4354.11		P	5.1
2	☐			4389.68		P	4.8
3	☐			6268.23		P	1.3
4	☐			9694.76		P	1.6
5	☐			15110.96		P	0.9
6	☐			25254.25		P	0.9
7	☐			45847.14		P	2.3
8	☐			4018.43		P	2.4

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			27261.61		P	3.2
2	☐			27643.46		P	3.3
3	☐			28818.35		P	1.2
4	☐			30803.90		P	1.5
5	☐			33347.80		P	0.7
6	☐			37744.96		P	1.7
7	☐			48608.21		P	2.0
8	☐			28404.21		P	1.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	524.46	0.0001	P	4.2
2	☐	1.000	0.930	10221.89	0.0010	P	1.1
3	☐	50.000	50.583	526133.32	0.0542	P	3.9
4	☐	125.000	121.246	1308838.45	0.1298	P	1.7
5	☐	250.000	252.390	2663865.83	0.2701	A	2.7
6	☐	500.000	493.256	5092542.18	0.5279	A	3.2
7	☐	1000.000	1003.215	9800576.80	1.0736	A	2.3
8	☐			3032.69	0.0004	P	28.9

$$y = 0.0011 * x + 5.3606E-005$$

$$R = 1.0000$$

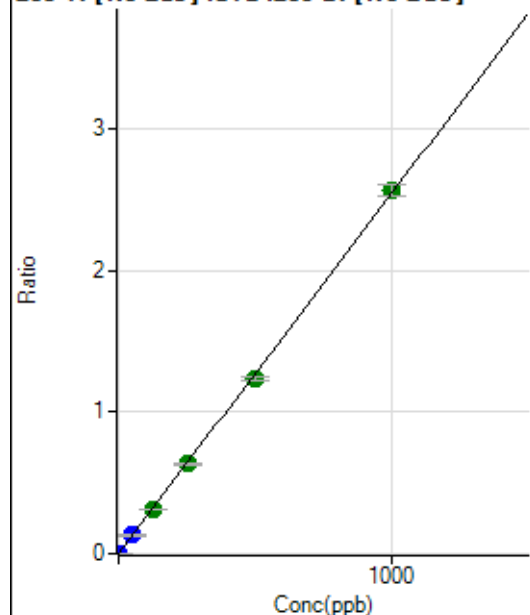
$$DL = 0.006248$$

$$BEC = 0.0501$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1267.85	0.0001	P	7.2
2	☐	1.000	0.934	24389.68	0.0025	P	2.3
3	☐	50.000	50.885	1257131.64	0.1295	P	3.6
4	☐	125.000	122.769	3147294.33	0.3121	A	2.4
5	☐	250.000	248.974	6241576.78	0.6329	A	2.2
6	☐	500.000	485.885	11914626.90	1.2350	A	2.2
7	☐	1000.000	1007.549	23373144.10	2.5608	A	3.2
8	☐			7367.18	0.0009	P	29.6

$$y = 0.0025 * x + 1.2964E-004$$

$$R = 0.9998$$

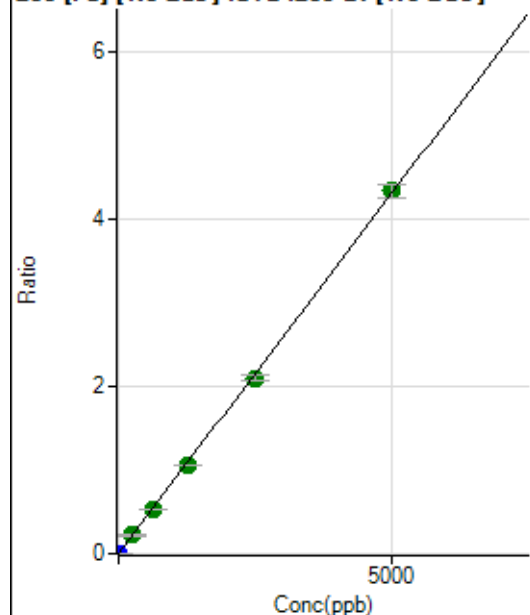
$$DL = 0.01102$$

$$BEC = 0.05101$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	400.01	0.0000	P	15.9
2	☐	1.000	0.929	8194.90	0.0008	P	4.3
3	☐	250.000	258.002	2157594.41	0.2222	A	3.9
4	☐	625.000	609.236	5289628.29	0.5246	A	2.4
5	☐	1250.000	1228.939	10436275.05	1.0582	A	1.7
6	☐	2500.000	2441.112	20277915.53	2.1019	A	2.6
7	☐	5000.000	5036.280	39577996.63	4.3364	A	3.6
8	☐			21997.58	0.0026	P	14.0

$$y = 8.6103E-004 * x + 4.0710E-005$$

$$R = 0.9999$$

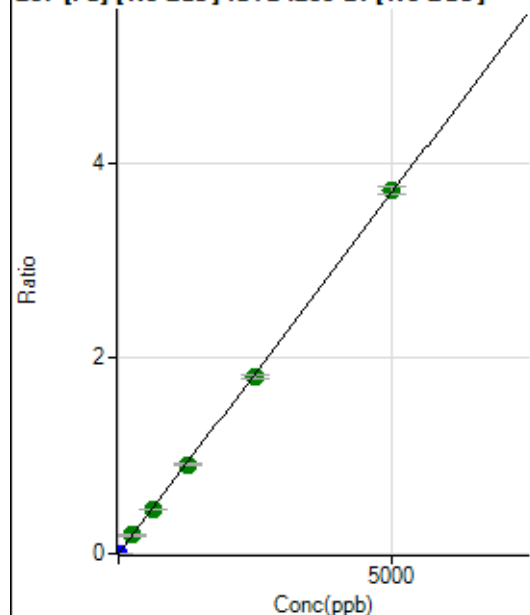
$$DL = 0.02258$$

$$BEC = 0.04728$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	354.45	0.0000	P	10.9
2	☐	1.000	0.932	7060.88	0.0007	P	3.7
3	☐	250.000	257.016	1844101.98	0.1899	A	3.2
4	☐	625.000	613.239	4567662.64	0.4530	A	2.2
5	☐	1250.000	1229.934	8959547.16	0.9085	A	2.1
6	☐	2500.000	2448.884	17451249.74	1.8088	A	2.6
7	☐	5000.000	5031.694	33929709.22	3.7166	A	2.1
8	☐			18871.75	0.0022	P	16.9

$$y = 7.3862E-004 * x + 3.6103E-005$$

$$R = 0.9999$$

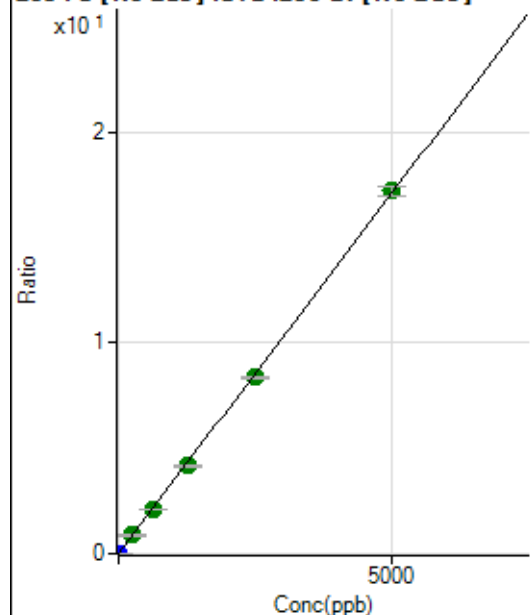
$$DL = 0.01601$$

$$BEC = 0.04888$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1555.61	0.0002	P	8.6
2	☐	1.000	0.932	32586.40	0.0033	P	1.9
3	☐	250.000	256.203	8501860.88	0.8755	A	3.7
4	☐	625.000	611.475	21067619.23	2.0893	A	1.8
5	☐	1250.000	1220.642	41129463.97	4.1705	A	2.0
6	☐	2500.000	2443.647	80549522.13	8.3488	A	1.9
7	☐	5000.000	5036.897	157088488.4	17.2086	A	2.6
8	☐			87384.10	0.0104	P	14.9

$$y = 0.0034 * x + 1.5854E-004$$

$$R = 0.9999$$

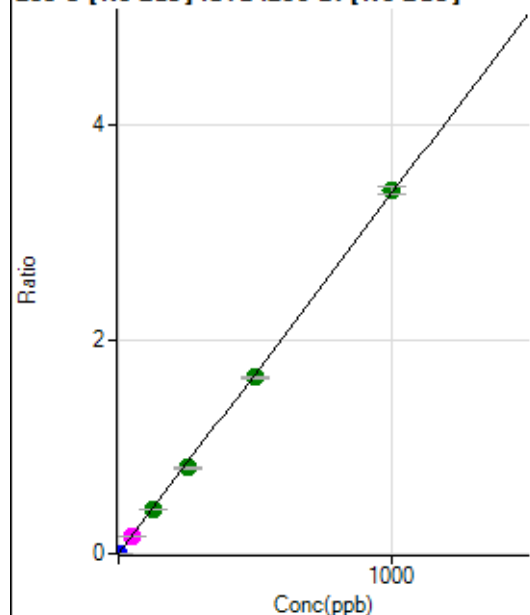
$$DL = 0.01194$$

$$BEC = 0.0464$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	60.00	0.0000	P	40.8
2	☐	1.000	0.906	29724.89	0.0030	P	1.6
3	☐	50.000	49.283	1607283.66	0.1655	M	2.8
4	☐	125.000	121.713	4121288.13	0.4087	A	0.6
5	☐	250.000	239.766	7939246.97	0.8050	A	2.0
6	☐	500.000	490.087	15876961.71	1.6455	A	0.7
7	☐	1000.000	1007.962	30897356.48	3.3842	A	2.0
8	☐			5800.39	0.0007	P	35.7

$$y = 0.0034 * x + 6.1636E-006$$

$$R = 0.9999$$

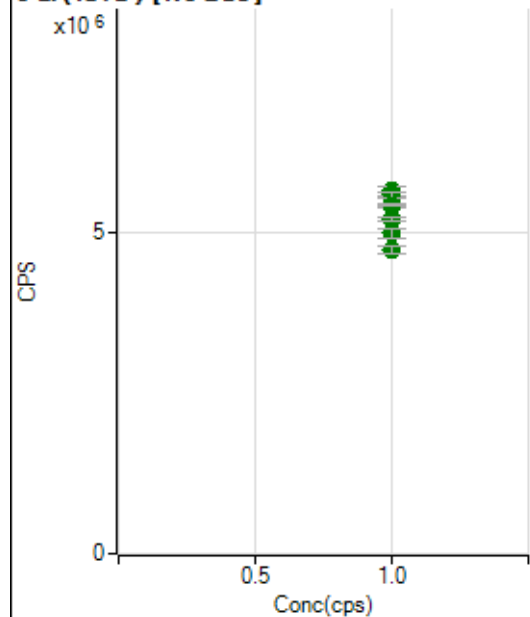
$$DL = 0.002246$$

$$BEC = 0.001836$$

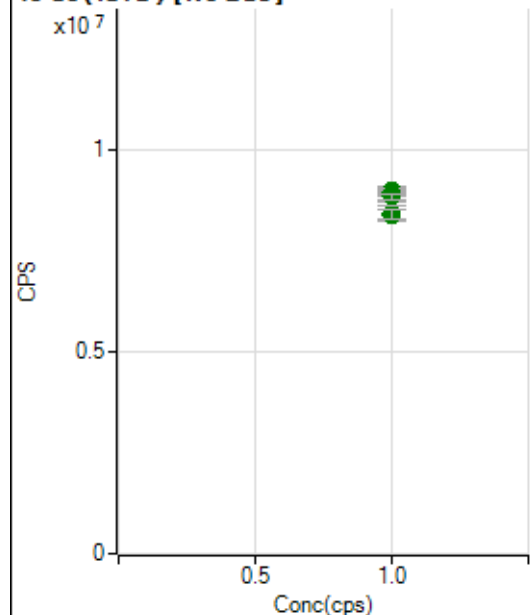
Weight: <None>

Min Conc: 0

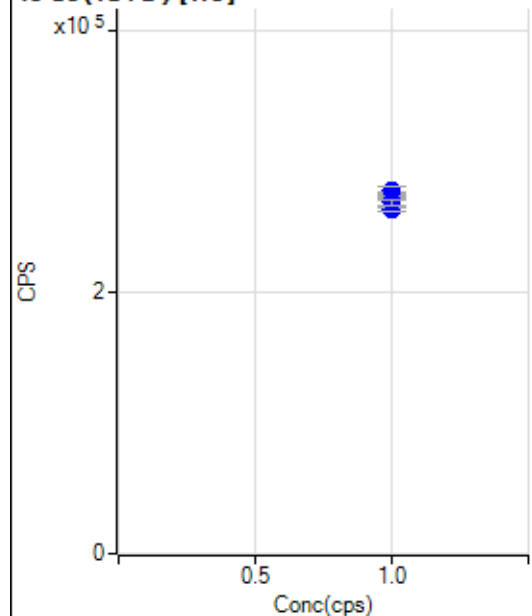
6 Li (ISTD) [No Gas]



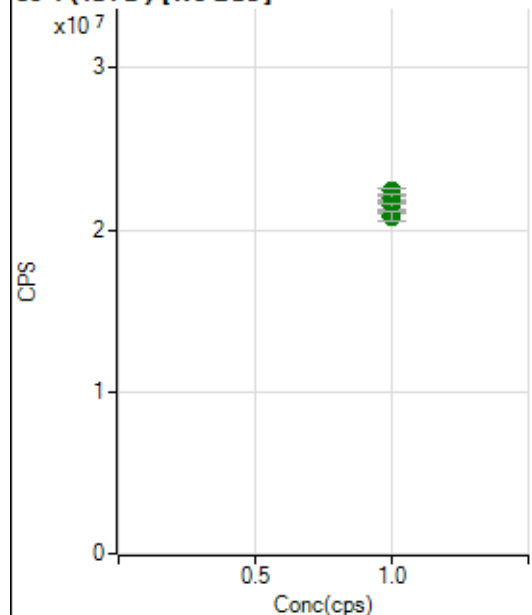
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		5643052.29		A	2.7
2	☐	1.000		5596046.08		A	1.1
3	☐	1.000		5454366.65		A	2.7
4	☐	1.000		5586096.02		A	1.6
5	☐	1.000		5426919.72		A	0.9
6	☐	1.000		5196667.30		A	0.9
7	☐	1.000		4981932.89		A	3.1
8	☐	1.000		4733794.06		A	2.8

45 Sc (ISTD) [No Gas]

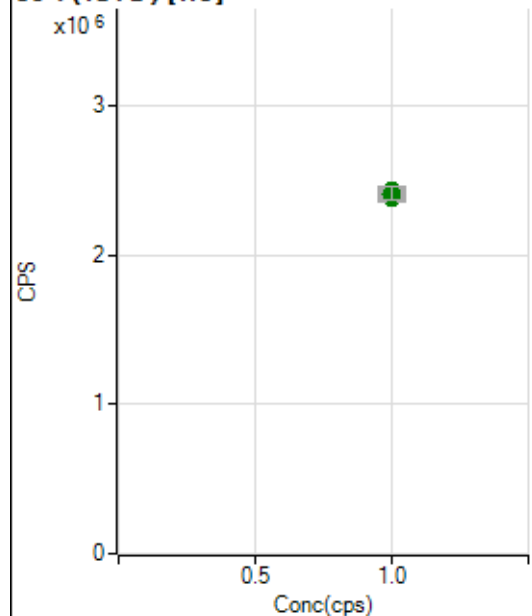
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		8891859.52		A	3.8
2	☐	1.000		8970187.16		A	0.7
3	☐	1.000		8867832.09		A	3.9
4	☐	1.000		8955432.02		A	1.6
5	☐	1.000		8867649.59		A	0.6
6	☐	1.000		8832487.99		A	1.6
7	☐	1.000		8418244.11		A	4.0
8	☐	1.000		8381262.65		A	2.6

45 Sc (ISTD) [He]

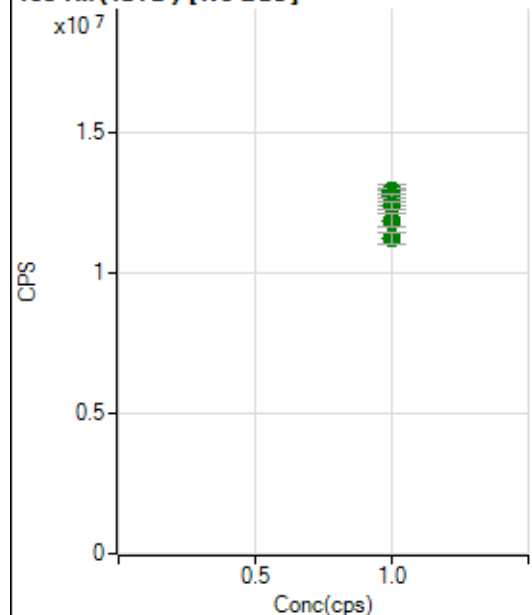
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		275367.11		P	1.3
2	☐	1.000		277729.66		P	2.0
3	☐	1.000		273432.27		P	0.7
4	☐	1.000		271957.09		P	1.2
5	☐	1.000		271091.99		P	0.5
6	☐	1.000		264159.39		P	1.3
7	☐	1.000		269208.76		P	3.0
8	☐	1.000		268728.46		P	2.0

89 Y (ISTD) [No Gas]

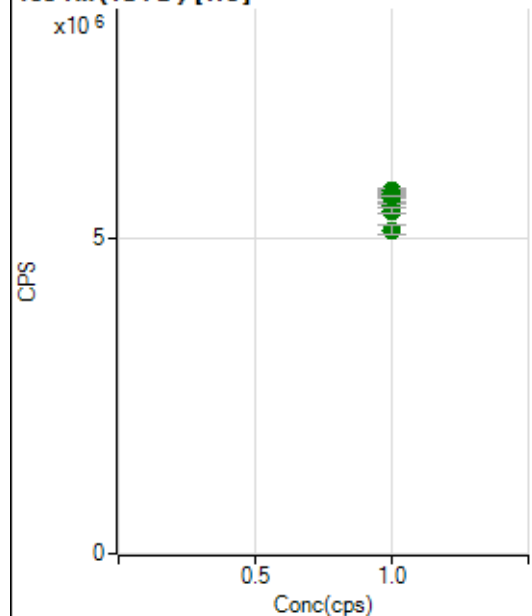
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		21702122.87		A	3.8
2	☐	1.000		21841483.70		A	2.1
3	☐	1.000		21466793.57		A	3.8
4	☐	1.000		22397200.78		A	1.5
5	☐	1.000		21946141.89		A	1.9
6	☐	1.000		21467944.12		A	1.8
7	☐	1.000		20812360.94		A	2.3
8	☐	1.000		20836576.63		A	2.8

89 Y (ISTD) [He]

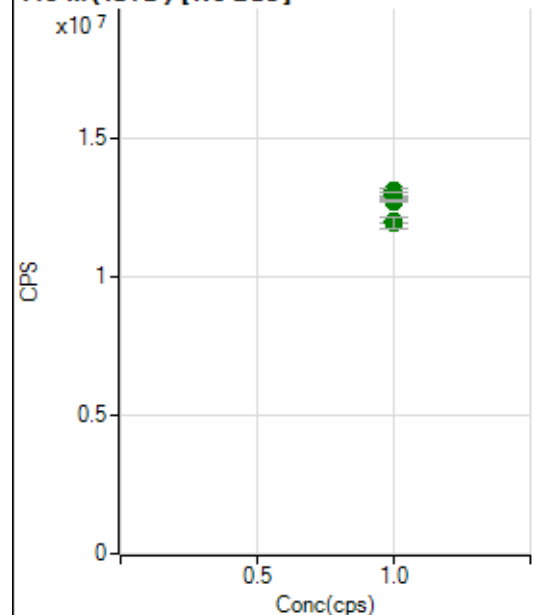
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2401387.83		A	1.3
2	☐	1.000		2402103.61		A	2.6
3	☐	1.000		2427145.28		A	0.7
4	☐	1.000		2391344.49		A	1.6
5	☐	1.000		2384505.37		A	1.1
6	☐	1.000		2378277.12		A	0.4
7	☐	1.000		2401888.23		A	3.5
8	☐	1.000		2411863.92		A	3.9

103 Rh (ISTD) [No Gas]

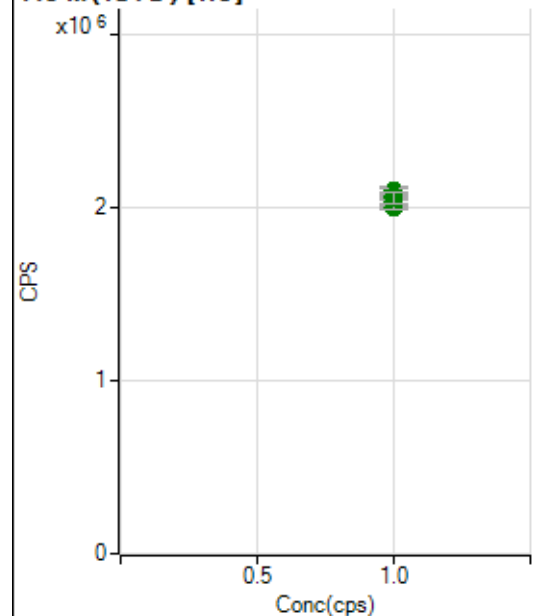
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		12799855.64		A	4.8
2	☐	1.000		12859714.95		A	1.4
3	☐	1.000		12656803.01		A	4.4
4	☐	1.000		12908138.69		A	1.3
5	☐	1.000		12710700.78		A	1.1
6	☐	1.000		12396388.98		A	1.9
7	☐	1.000		11869357.60		A	3.6
8	☐	1.000		11206647.89		A	3.4

103 Rh (ISTD) [He]

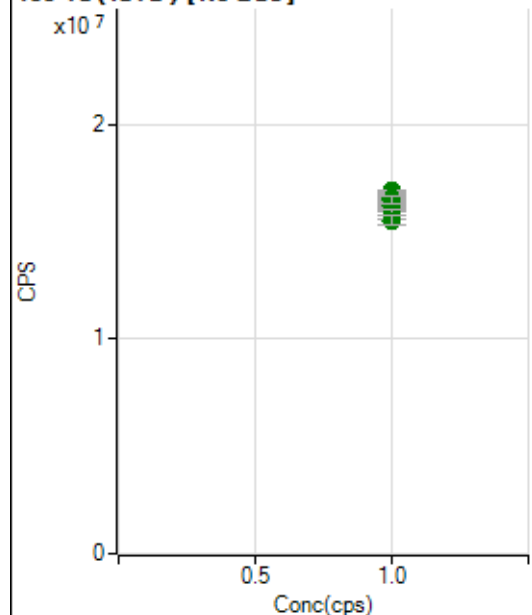
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		5698323.94		A	1.3
2	☐	1.000		5735033.25		A	1.8
3	☐	1.000		5672612.48		A	1.9
4	☐	1.000		5654514.64		A	0.0
5	☐	1.000		5610337.42		A	1.5
6	☐	1.000		5500962.28		A	1.5
7	☐	1.000		5418605.89		A	1.9
8	☐	1.000		5111746.66		A	3.1

115 In (ISTD) [No Gas]

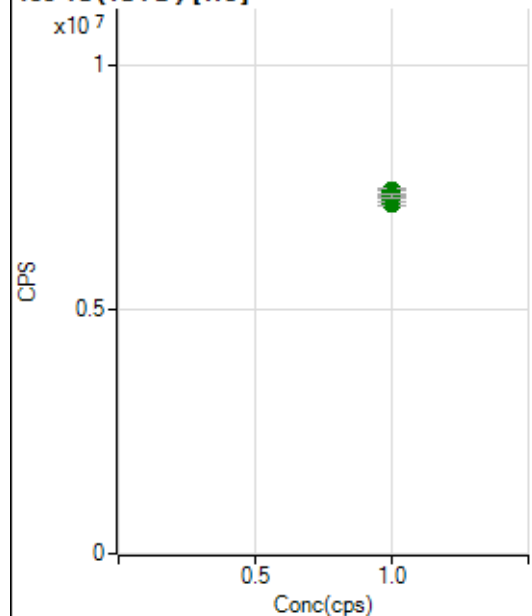
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		12877508.20		A	2.3
2	☐	1.000		12845565.05		A	0.9
3	☐	1.000		12898199.73		A	2.2
4	☐	1.000		13073219.17		A	1.0
5	☐	1.000		12938673.27		A	1.3
6	☐	1.000		12707825.49		A	0.3
7	☐	1.000		12011648.71		A	2.0
8	☐	1.000		11918776.37		A	3.7

115 In (ISTD) [He]

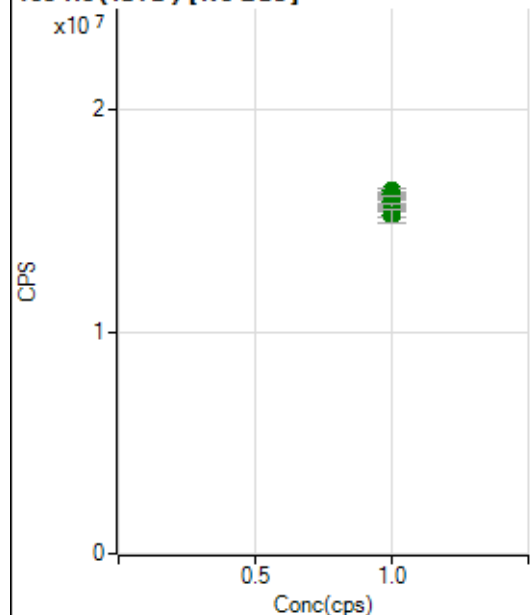
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2055759.73		A	0.8
2	☐	1.000		2096510.45		A	2.3
3	☐	1.000		2085021.35		A	2.7
4	☐	1.000		2066728.44		A	2.0
5	☐	1.000		2032195.75		A	1.6
6	☐	1.000		2003580.43		A	0.4
7	☐	1.000		2005329.69		A	2.1
8	☐	1.000		2056771.21		A	3.0

159 Tb (ISTD) [No Gas]

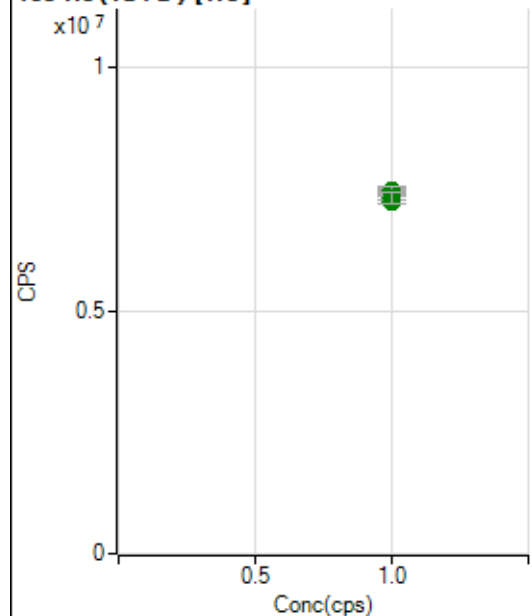
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		16331955.03		A	3.1
2	☐	1.000		16346333.93		A	1.3
3	☐	1.000		16199998.93		A	3.8
4	☐	1.000		16884705.16		A	0.9
5	☐	1.000		16566383.64		A	2.0
6	☐	1.000		16487126.70		A	2.4
7	☐	1.000		15792943.24		A	3.1
8	☐	1.000		15519469.49		A	2.5

159 Tb (ISTD) [He]

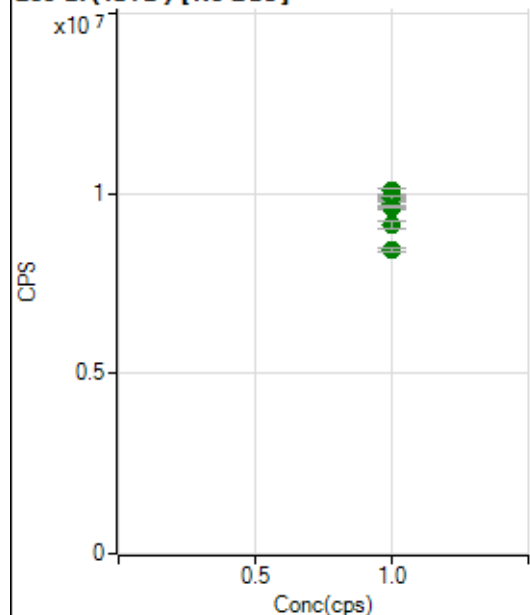
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		7170791.07		A	0.9
2	☐	1.000		7413296.21		A	2.2
3	☐	1.000		7272648.36		A	1.2
4	☐	1.000		7293202.46		A	2.1
5	☐	1.000		7403709.61		A	1.4
6	☐	1.000		7299418.99		A	2.1
7	☐	1.000		7441563.15		A	1.6
8	☐	1.000		7336707.04		A	1.1

165 Ho (ISTD) [No Gas]

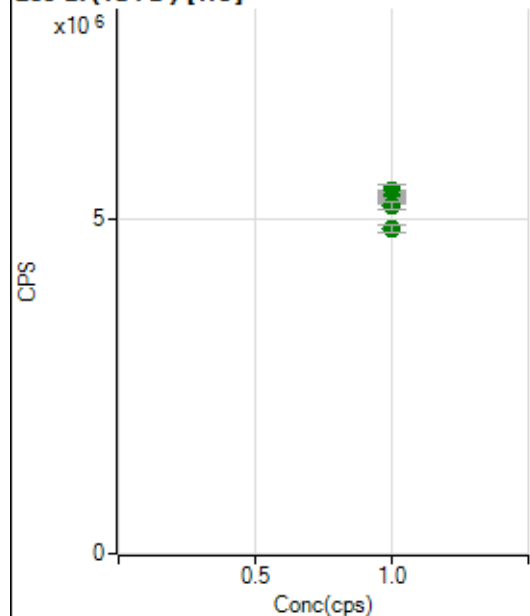
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		15901093.23		A	3.7
2	☐	1.000		15827794.21		A	1.7
3	☐	1.000		15728139.77		A	4.4
4	☐	1.000		16337826.56		A	1.0
5	☐	1.000		16152592.26		A	1.8
6	☐	1.000		16109168.79		A	0.4
7	☐	1.000		15477895.88		A	4.2
8	☐	1.000		15213148.80		A	3.9

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		7252224.47		A	0.9
2	☐	1.000		7436269.47		A	2.0
3	☐	1.000		7445954.75		A	0.6
4	☐	1.000		7336725.93		A	1.5
5	☐	1.000		7430260.03		A	1.0
6	☐	1.000		7247126.28		A	1.5
7	☐	1.000		7469937.11		A	2.3
8	☐	1.000		7331954.06		A	3.0

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		9793074.64		A	3.5
2	☐	1.000		9747437.91		A	1.3
3	☐	1.000		9719639.02		A	3.6
4	☐	1.000		10085690.13		A	1.7
5	☐	1.000		9864451.59		A	1.8
6	☐	1.000		9649056.87		A	1.0
7	☐	1.000		9132714.24		A	2.7
8	☐	1.000		8424847.72		A	1.2

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		5299229.19		A	0.5
2	☐	1.000		5419961.34		A	3.2
3	☐	1.000		5386149.74		A	2.1
4	☐	1.000		5380551.79		A	0.3
5	☐	1.000		5303736.52		A	0.9
6	☐	1.000		5185553.54		A	1.4
7	☐	1.000		5207038.92		A	2.3
8	☐	1.000		4864658.75		A	2.4

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP8052124-ML.b

Acq. Date-Time 2024-05-21 12:31:06

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		18834	188342.12			2.758	5.000
24		150688	1506884.89			2.058	5.000
25		20493	204925.12			2.191	5.000
26		23779	237785.93			1.768	5.000
59		145990	1459904.69			2.724	5.000
113		16017	160169.22			2.455	5.000
115		198745	1987446.44			2.397	5.000
206		45238	452383.57			3.017	5.000
207		40827	408273.12			3.093	5.000
208		96579	965792.85			3.067	5.000
220		0	3.90			36.712	

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

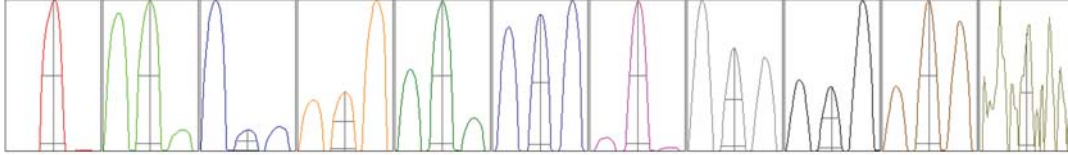
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	17943	18824	19087	19088	19228
24	145370	152846	152936	151293	150997
25	19742	20443	20757	20642	20878
26	23085	23672	24047	24026	24063
59	139638	144703	147622	148484	149505
113	15339	16039	16134	16277	16295
115	190640	200277	202556	201607	198642
206	42984	45174	45610	45804	46620
207	38891	40322	41232	41587	42105
208	91809	95762	97527	98846	98952

US EPA Tune Check Report

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
220	0	1	0	1	0

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	32516.95	9.05	8.90 - 9.10	
24	247010.07	24.00	23.90 - 24.10	
25	33909.11	25.00	24.90 - 25.10	
26	39266.40	26.00	25.90 - 26.10	
59	257796.53	59.00	58.90 - 59.10	
113	31623.32	113.05	112.90 - 113.10	
115	392782.49	115.05	114.90 - 115.10	
206	88209.96	206.00	205.90 - 206.10	
207	79859.07	207.00	206.90 - 207.10	
208	185433.66	208.00	207.90 - 208.10	
220	0.70	220.00	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.62	0.780	0.900	
24	0.65	0.788	0.900	
25	0.64	0.778	0.900	
26	0.64	0.786	0.900	
59	0.60	0.742	0.900	
113	0.53	0.688	0.900	
115	0.52	0.730	0.900	
206	0.54	0.769	0.900	
207	0.53	0.739	0.900	
208	0.54	0.776	0.900	
220	0.38	0.487		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.85 L/min Dilution Gas 0.40 L/min

US EPA Tune Check Report

RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	9.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	11.3 V	Deflect	13.8 V
Extract 2	-210.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-105 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	130 V		

QP Parameters

Mass Gain	126	Axis Gain	0.9992	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	0.06		

Hardware Settings

Torch

Torch H	1.1 mm	Torch V	-1.0 mm
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EM

Discriminator	3.8 mV	Analog HV	2139 V	Pulse HV	938 V
---------------	--------	-----------	--------	----------	-------

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		31326	313263.81			3.370	
89		23489	234892.91			3.113	
205		37253	372528.31			2.416	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	31959	32862	30797	30699	30315
89	23865	24592	23046	23129	22815
205	36720	38848	36843	37045	36808

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.85 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	9.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	11.3 V	Deflect	3.4 V
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US EPA Tune Check Report

Extract 2	-210.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-105 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	126	Axis Gain	0.9992	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	0.06		

Hardware Settings

Torch

Torch H	1.1 mm	Torch V	-1.0 mm
---------	--------	---------	---------

EM

Discriminator	3.8 mV	Analog HV	2139 V	Pulse HV	938 V
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