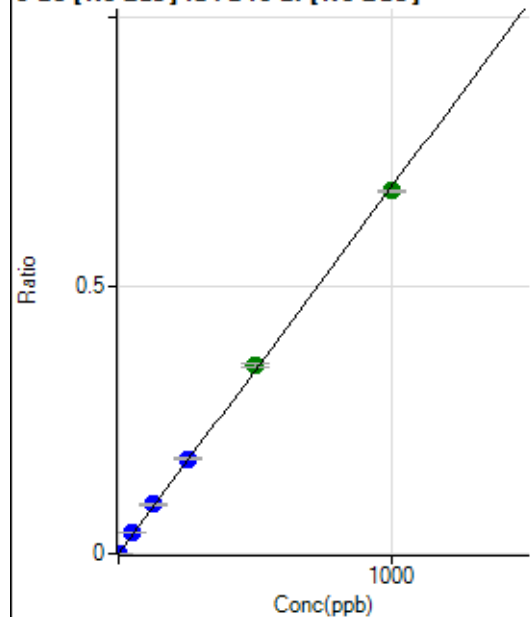


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8102721 MS.b\
Analysis File: P8102721 MS.batch.bin
DA Date-Time: 2021-10-27 16:33:00
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2021-10-27 11:36:10
2	005CALS.d	S02	2021-10-27 11:42:20
3	006CALS.d	S03	2021-10-27 11:45:25
4	007CALS.d	S04	2021-10-27 11:48:28
5	008CALS.d	S05	2021-10-27 11:51:34
6	009CALS.d	S06	2021-10-27 11:54:37
7	010CALS.d	S07	2021-10-27 11:57:43
8	011CALS.d	S08	2021-10-27 12:00:46

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	65.99	0.0000	P	9.0
2	☐	1.000	1.041	3302.40	0.0007	P	1.7
3	☐	50.000	57.031	184067.29	0.0390	P	1.2
4	☐	125.000	133.901	440611.43	0.0916	P	2.7
5	☐	250.000	258.984	825769.22	0.1772	P	1.9
6	☐	500.000	513.898	1680449.01	0.3516	A	2.4
7	☐	1000.000	989.341	3152278.25	0.6769	A	0.6
8	☐			431.92	0.0001	P	11.4

$$y = 6.8416\text{E-}004 * x + 1.3960\text{E-}005$$

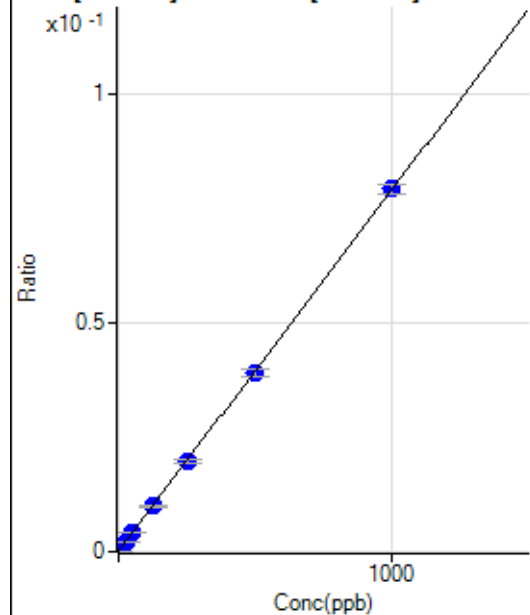
$$R = 0.9998$$

$$DL = 0.00548$$

$$BEC = 0.0204$$

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	569.90	0.0001	P	3.9
2	☐	25.000	23.841	9095.05	0.0020	P	1.6
3	☐	50.000	52.702	20140.57	0.0043	P	5.9
4	☐	125.000	124.856	47871.41	0.0100	P	5.7
5	☐	250.000	248.182	91637.34	0.0197	P	4.6
6	☐	500.000	493.760	186417.97	0.0390	P	4.2
7	☐	1000.000	1003.486	368761.95	0.0792	P	3.0
8	☐			36607.14	0.0077	P	9.5

$$y = 7.8776\text{E-}005 * x + 1.2075\text{E-}004$$

$$R = 1.0000$$

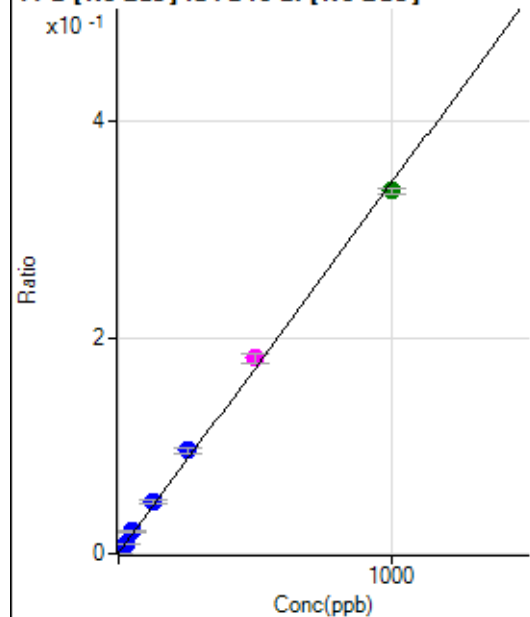
$$DL = 0.1808$$

$$BEC = 1.533$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	2632.39	0.0006	P	4.7
2	☐	25.000	26.266	43510.53	0.0096	P	3.2
3	☐	50.000	58.563	97243.43	0.0206	P	6.9
4	☐	125.000	137.987	230044.35	0.0479	P	6.2
5	☐	250.000	276.688	444360.70	0.0954	P	4.2
6	☐	500.000	525.699	863470.02	0.1807	M	5.2
7	☐	1000.000	978.395	1564230.89	0.3359	A	1.8
8	☐			171738.79	0.0363	P	9.8

$$y = 3.4276E-004 * x + 5.5786E-004$$

$$R = 0.9991$$

$$DL = 0.228$$

$$BEC = 1.628$$

Weight: <None>

Min Conc: 0

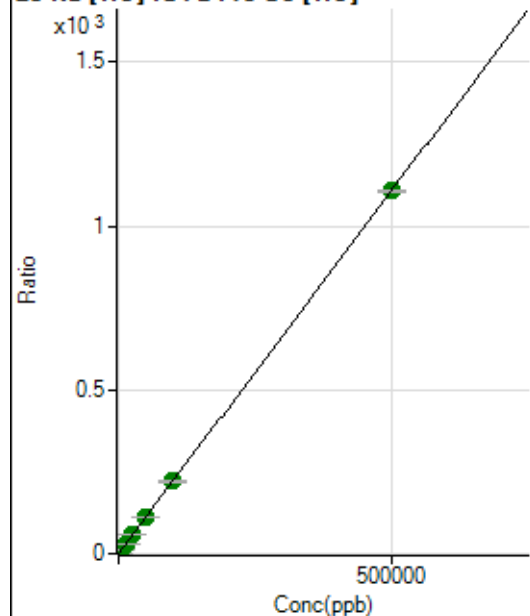
12 C [No Gas] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			7346717.78		A	0.7
2	☐			7315525.34		A	1.4
3	☐			8013568.67		A	2.3
4	☐			8055508.95		A	1.4
5	☐			7871419.53		A	1.2
6	☐			8095131.00		A	2.1
7	☐			8903398.98		A	2.7
8	☐			7896595.14		A	2.1

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			72574.52		P	1.0
2	☐			71290.33		P	1.1
3	☐			85102.37		P	0.7
4	☐			79227.78		P	0.8
5	☐			79275.12		P	0.9
6	☐			82794.70		P	0.9
7	☐			94964.94		P	1.2
8	☐			89656.61		P	1.0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	23589.01	0.0793	P	0.7
2	☐	500.000	476.018	318448.64	1.1330	P	1.2
3	☐	5000.000	5381.406	3423524.77	11.9917	A	0.9
4	☐	12500.000	12857.812	8007298.44	28.5416	A	1.4
5	☐	25000.000	25810.432	15127670.65	57.2138	A	0.9
6	☐	50000.000	50235.577	30071831.57	111.2817	A	0.8
7	☐	100000.00	100212.12	57274673.50	221.9107	A	3.3
8	☐	500000.00	499880.76	289283517.5	1,106.624	A	0.7

$$y = 0.0022 * x + 0.0793$$

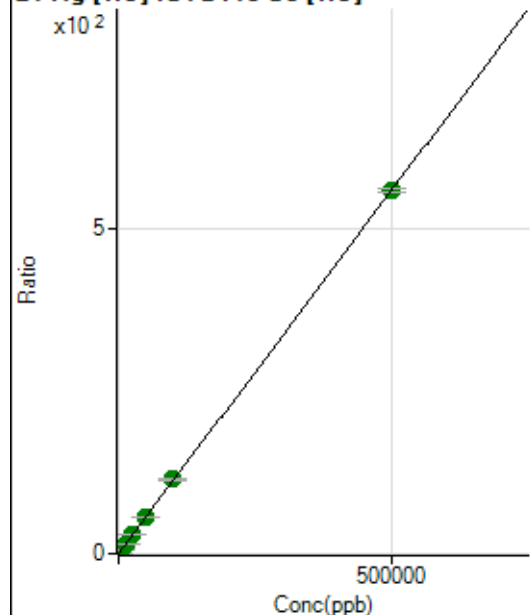
$$R = 1.0000$$

$$DL = 0.756$$

$$BEC = 35.83$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	455.57	0.0015	P	12.3
2	☐	500.000	491.767	155031.03	0.5516	P	1.5
3	☐	5000.000	5592.082	1785315.99	6.2567	A	2.4
4	☐	12500.000	13379.105	4198950.48	14.9672	A	1.3
5	☐	25000.000	25665.789	7590942.70	28.7109	A	1.5
6	☐	50000.000	50617.566	15301077.08	56.6216	A	0.5
7	☐	100000.00	102162.02	29497423.92	114.2784	A	2.6
8	☐	500000.00	499444.66	146042500.4	558.6727	A	1.2

$$y = 0.0011 * x + 0.0015$$

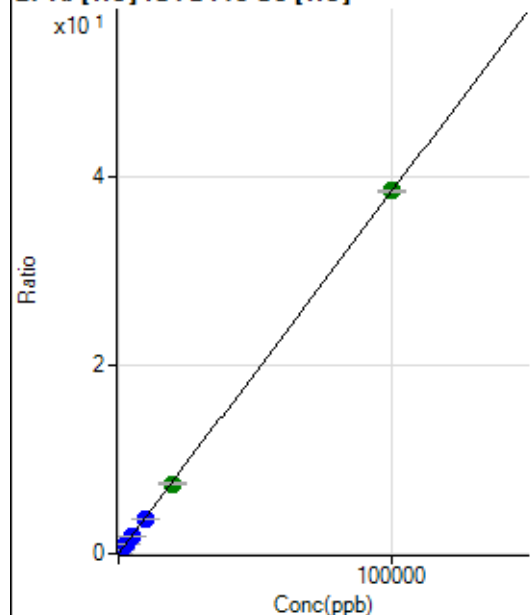
$$R = 1.0000$$

$$DL = 0.5047$$

$$BEC = 1.37$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	155.40	0.0005	P	12.3
2	☐	20.000	18.449	2142.81	0.0076	P	0.5
3	☐	1000.000	1024.214	112664.71	0.3947	P	0.5
4	☐	2500.000	2476.261	267517.09	0.9535	P	0.3
5	☐	5000.000	4865.712	495263.42	1.8731	P	0.5
6	☐	10000.000	9477.128	985752.01	3.6478	P	0.6
7	☐	20000.000	19303.838	1918063.85	7.4296	A	1.1
8	☐	100000.00	100198.58	10080549.53	38.5618	A	0.7

$$y = 3.8485E-004 * x + 5.2271E-004$$

$$R = 1.0000$$

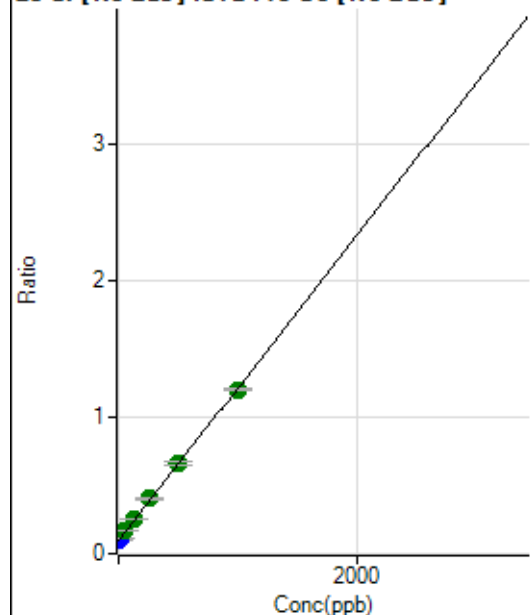
$$DL = 0.5028$$

$$BEC = 1.358$$

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	755223.05	0.0939	P	1.8
2	☐	10.000	16.376	854401.79	0.1123	P	0.5
3	☐	50.000	68.509	1360859.73	0.1707	A	2.6
4	☐	125.000	143.585	2030061.96	0.2548	A	0.8
5	☐	250.000	274.315	3107382.34	0.4013	A	0.6
6	☐	500.000	507.012	5354220.60	0.6620	A	3.0
7	☐	1000.000	987.103	9470405.94	1.1999	A	1.9
8	☐			1626896.90	0.2076	A	3.0

$$y = 0.0011 * x + 0.0939$$

$$R = 0.9996$$

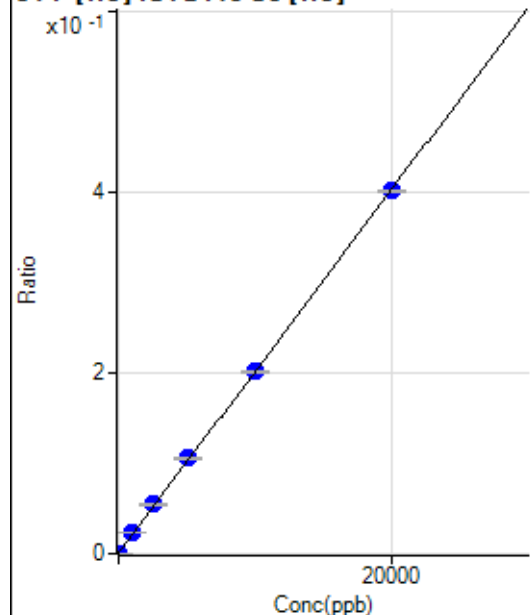
$$DL = 4.438$$

$$BEC = 83.84$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-6.713	119.45	0.0004	P	18.0
2	☐	0.000	6.713	188.90	0.0007	P	6.9
3	☐	1000.000	1102.066	6484.96	0.0227	P	1.3
4	☐	2500.000	2677.436	15272.42	0.0544	P	0.6
5	☐	5000.000	5225.256	27955.40	0.1057	P	1.2
6	☐	10000.000	9976.197	54419.68	0.2014	P	0.7
7	☐	20000.000	19928.305	103717.41	0.4017	P	0.9
8	☐			175.00	0.0007	P	17.1

$$y = 2.0131E-005 * x + 5.3701E-004$$

$$R = 0.9999$$

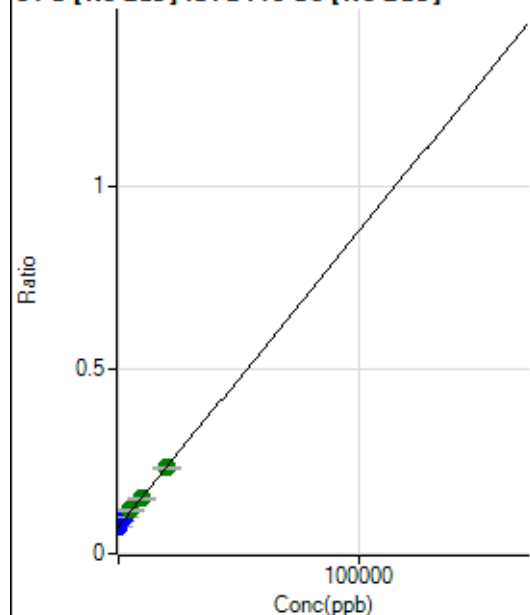
$$DL = 8.861$$

$$BEC = 26.68$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	-36.705	591648.04	0.0736	P	2.6
2	☐	0.000	36.705	564355.10	0.0742	P	2.4
3	☐	1000.000	1699.710	697742.44	0.0875	P	1.9
4	☐	2500.000	3414.178	806663.25	0.1013	P	0.8
5	☐	5000.000	5609.133	920633.70	0.1189	A	3.1
6	☐	10000.000	9505.561	1213882.20	0.1501	A	2.2
7	☐	20000.000	19945.678	1845022.07	0.2338	A	3.2
8	☐			527553.08	0.0673	P	1.0

$$y = 8.0173E-006 * x + 0.0739$$

$$R = 0.9979$$

$$DL = 698.9$$

$$BEC = 9216$$

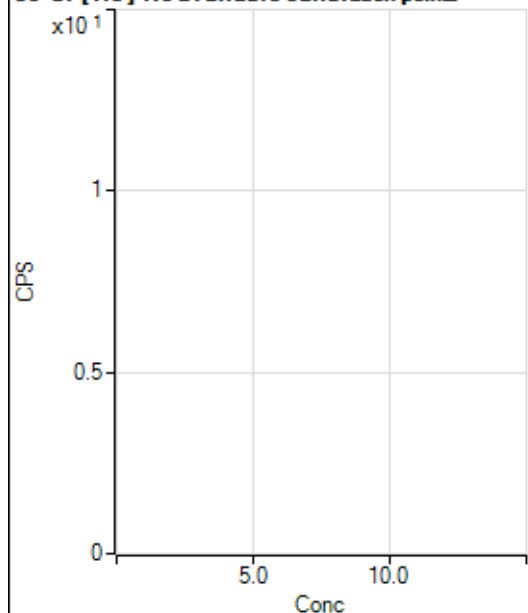
Weight: <None>

Min Conc: 0

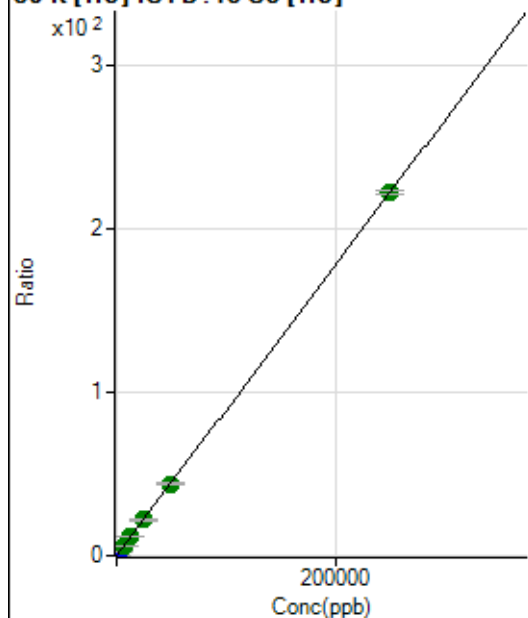
35 Cl [No Gas] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			460204.33		P	1.3
2	☐			396131.00		P	0.3
3	☐			394867.84		P	1.2
4	☐			375990.16		P	1.2
5	☐			351070.91		P	2.1
6	☐			357579.28		P	1.2
7	☐			352174.59		P	0.7
8	☐			341312.67		P	1.1

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2964.27		P	2.8
2	☐			2661.43		P	3.8
3	☐			2591.96		P	4.4
4	☐			2486.40		P	3.4
5	☐			2205.78		P	5.9
6	☐			2119.65		P	1.9
7	☐			2222.46		P	11.3
8	☐			2094.66		P	12.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	26675.24	0.0897	P	0.7
2	☐	500.000	470.719	142468.95	0.5069	P	0.9
3	☐	2500.000	2738.279	718550.04	2.5166	P	1.0
4	☐	6250.000	6524.976	1647727.60	5.8727	A	1.6
5	☐	12500.000	12779.396	3018414.28	11.4159	A	0.4
6	☐	25000.000	24462.756	5882638.85	21.7707	A	2.2
7	☐	50000.000	49306.818	11303749.12	43.7897	A	2.0
8	☐	250000.00	250169.19	57983674.91	221.8115	A	0.9

$$y = 8.8629E-004 * x + 0.0897$$

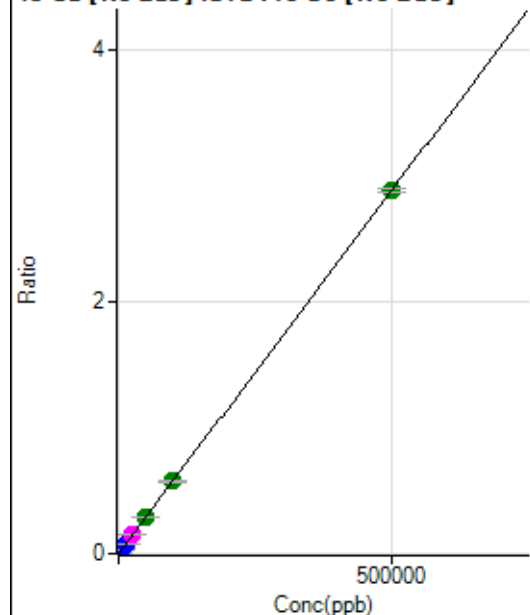
$$R = 1.0000$$

$$DL = 2.231$$

$$BEC = 101.2$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	443.70	0.0001	P	6.3
2	☐	500.000	443.691	19887.97	0.0026	P	1.8
3	☐	5000.000	5381.077	247855.38	0.0311	P	1.6
4	☐	12500.000	12841.978	590393.16	0.0741	P	0.7
5	☐	25000.000	25725.612	1149264.66	0.1484	M	0.3
6	☐	50000.000	50832.589	2371323.30	0.2932	A	1.5
7	☐	100000.00	99892.760	4546979.19	0.5761	A	2.5
8	☐	500000.00	499889.60	22585350.83	2.8827	A	1.0

$$y = 5.7665E-006 * x + 5.5192E-005$$

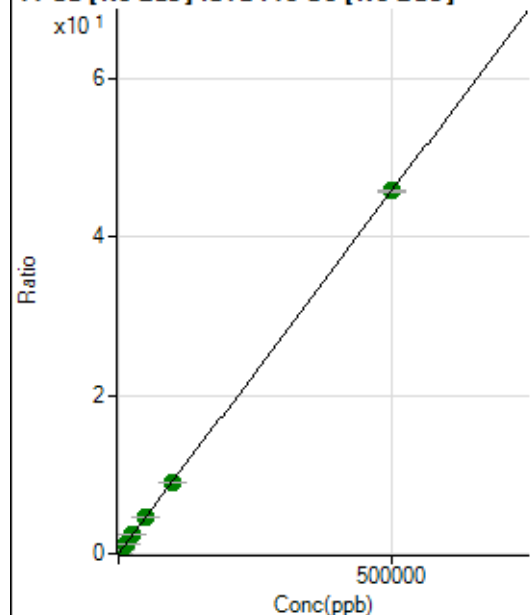
$$R = 1.0000$$

$$DL = 1.823$$

$$BEC = 9.571$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	39394.93	0.0049	P	1.3
2	☐	500.000	457.145	355386.94	0.0467	P	1.0
3	☐	5000.000	5367.054	3953718.92	0.4957	A	1.0
4	☐	12500.000	13096.371	9580891.05	1.2025	A	1.3
5	☐	25000.000	25724.419	18255479.35	2.3574	A	0.4
6	☐	50000.000	50084.281	37085040.68	4.5850	A	1.6
7	☐	100000.00	98010.144	70781764.89	8.9678	A	1.5
8	☐	500000.00	500334.78	358535130.3	45.7599	A	0.8

$$y = 9.1449E-005 * x + 0.0049$$

$$R = 1.0000$$

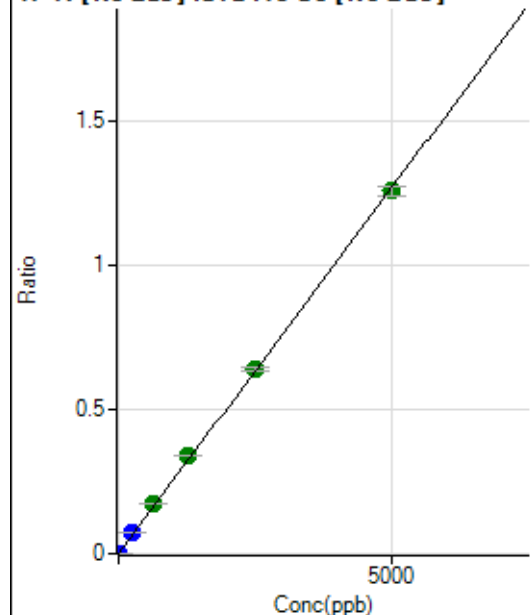
$$DL = 2.161$$

$$BEC = 53.58$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	327.79	0.0000	P	9.4
2	☐	5.000	5.033	10039.95	0.0013	P	2.9
3	☐	250.000	283.887	575241.30	0.0721	P	1.6
4	☐	625.000	679.591	1375375.17	0.1726	A	1.1
5	☐	1250.000	1343.873	2643471.46	0.3414	A	0.7
6	☐	2500.000	2514.555	5165695.21	0.6387	A	1.8
7	☐	5000.000	4960.736	9945209.86	1.2600	A	2.4
8	☐			1989.08	0.0003	P	0.8

$$y = 2.5398\text{E-}004 * x + 4.0793\text{E-}005$$

$$R = 0.9998$$

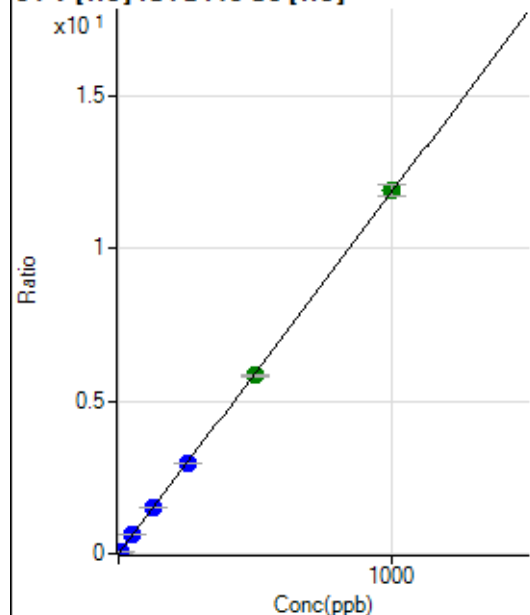
$$DL = 0.04528$$

$$BEC = 0.1606$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	8.89	0.0000	P	21.2
2	☐	5.000	4.680	15566.35	0.0554	P	0.3
3	☐	50.000	52.419	176922.10	0.6200	P	1.5
4	☐	125.000	126.048	418239.49	1.4908	P	0.6
5	☐	250.000	248.969	778570.48	2.9445	P	0.6
6	☐	500.000	492.467	1573898.26	5.8243	A	0.7
7	☐	1000.000	1003.774	3063991.76	11.8713	A	3.3
8	☐			623.35	0.0024	P	6.4

$$y = 0.0118 * x + 2.9873\text{E-}005$$

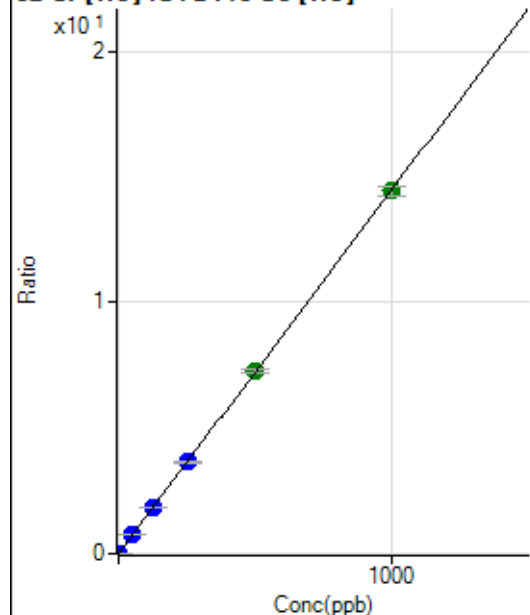
$$R = 1.0000$$

$$DL = 0.001607$$

$$BEC = 0.002526$$

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	1021.16	0.0034	P	2.9
2	☐	2.000	1.881	8608.23	0.0306	P	3.1
3	☐	50.000	53.015	219805.39	0.7700	P	0.2
4	☐	125.000	127.189	516901.82	1.8424	P	1.1
5	☐	250.000	251.139	961038.87	3.6346	P	0.8
6	☐	500.000	502.303	1963696.10	7.2661	A	1.3
7	☐	1000.000	998.140	3726008.31	14.4353	A	2.7
8	☐			13600.99	0.0520	P	2.6

$$y = 0.0145 * x + 0.0034$$

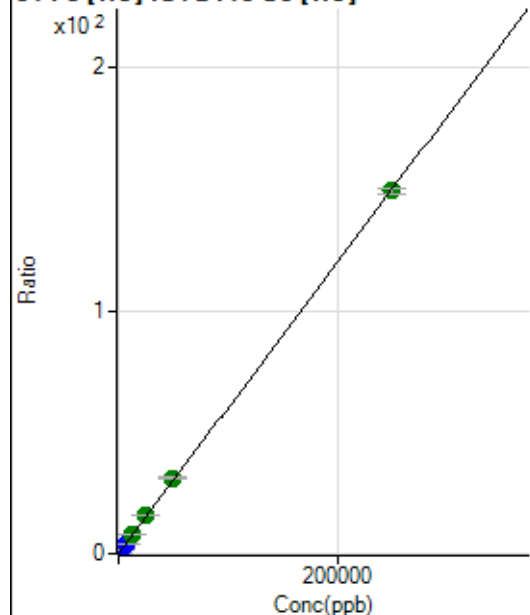
$$R = 1.0000$$

$$DL = 0.02032$$

$$BEC = 0.2375$$

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	785.22	0.0026	P	9.4
2	☐	50.000	48.304	8869.58	0.0316	P	2.6
3	☐	2500.000	2810.454	481061.44	1.6855	P	0.8
4	☐	6250.000	6726.356	1130716.52	4.0302	P	0.4
5	☐	12500.000	13372.788	2117990.27	8.0100	A	1.8
6	☐	25000.000	26111.571	4226005.71	15.6376	A	0.9
7	☐	50000.000	52032.949	8043006.08	31.1588	A	2.3
8	☐	250000.00	249423.60	39042622.17	149.3517	A	1.4

$$y = 5.9878E-004 * x + 0.0026$$

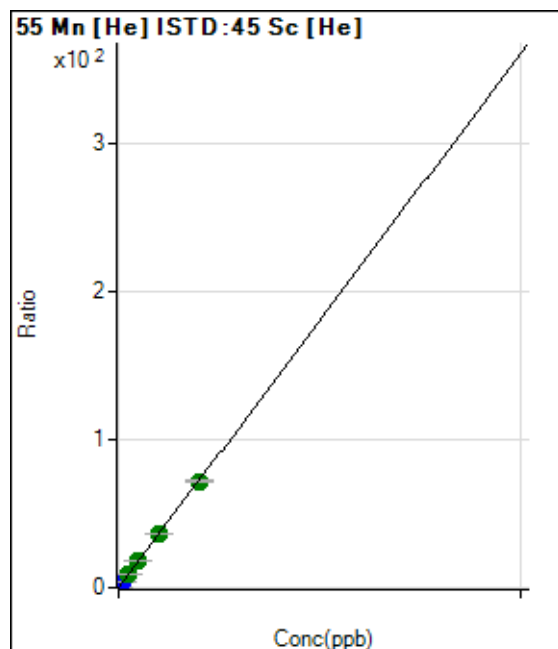
$$R = 1.0000$$

$$DL = 1.247$$

$$BEC = 4.409$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	185.56	0.0006	P	11.7
2	☐	1.000	1.001	2194.64	0.0078	P	5.2
3	☐	500.000	537.609	1102277.93	3.8625	P	1.4
4	☐	1250.000	1324.736	2670258.87	9.5167	A	1.9
5	☐	2500.000	2565.766	4873811.80	18.4315	A	2.0
6	☐	5000.000	4992.910	9692375.34	35.8667	A	0.6
7	☐	10000.000	9975.881	18499799.30	71.6613	A	1.7
8	☐			28342.59	0.1084	P	2.6

$$y = 0.0072 * x + 6.2380E-004$$

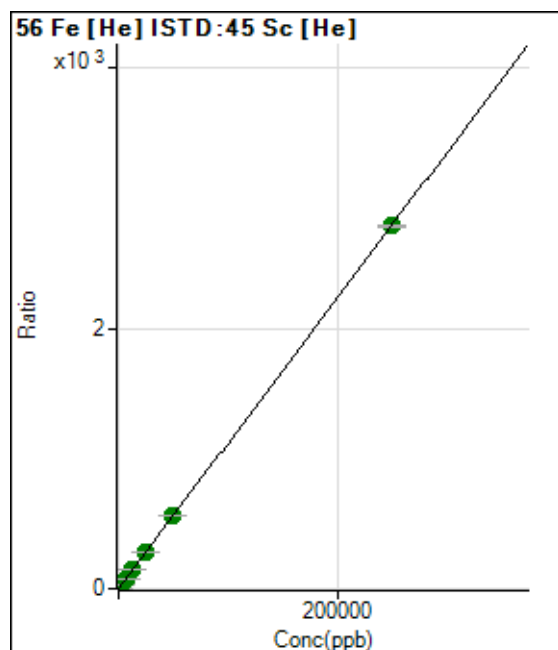
$$R = 1.0000$$

$$DL = 0.03036$$

$$BEC = 0.08684$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6121.78	0.0206	P	1.7
2	☐	50.000	46.679	152158.34	0.5413	P	1.5
3	☐	2500.000	2712.777	8640634.74	30.2838	A	2.2
4	☐	6250.000	6548.926	20503743.28	73.0792	A	0.5
5	☐	12500.000	12948.743	38201327.24	144.4744	A	1.6
6	☐	25000.000	24982.035	75316794.27	278.7156	A	1.1
7	☐	50000.000	50308.974	144889706.9	561.2583	A	1.7
8	☐	250000.00	249907.96	728804453.3	2.787.948	A	0.2

$$y = 0.0112 * x + 0.0206$$

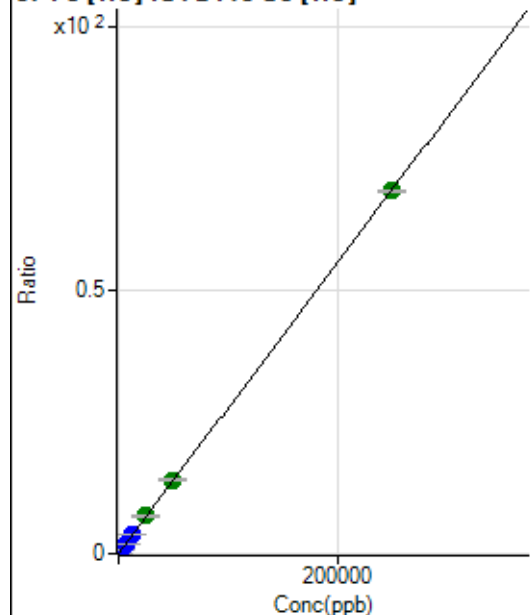
$$R = 1.0000$$

$$DL = 0.0957$$

$$BEC = 1.845$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	305.57	0.0010	P	18.4
2	☐	50.000	50.451	4198.84	0.0149	P	5.8
3	☐	2500.000	2674.170	210927.45	0.7389	P	0.6
4	☐	6250.000	6463.998	500633.21	1.7845	P	0.8
5	☐	12500.000	12824.071	935822.80	3.5393	P	0.7
6	☐	25000.000	25926.301	1933355.64	7.1544	A	1.8
7	☐	50000.000	50411.274	3590571.12	13.9101	A	2.4
8	☐	250000.00	249801.82	18017723.79	68.9244	A	0.4

$$y = 2.7591\text{E-}004 * x + 0.0010$$

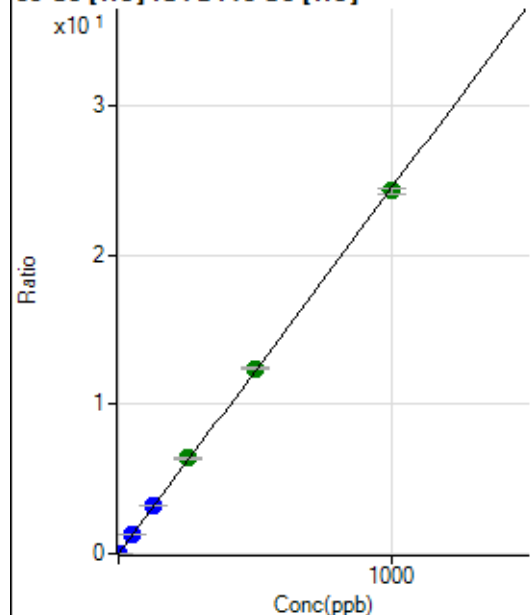
$$R = 1.0000$$

$$DL = 2.06$$

$$BEC = 3.726$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	121.11	0.0004	P	12.4
2	☐	1.000	0.944	6604.93	0.0235	P	5.4
3	☐	50.000	54.180	378442.87	1.3261	P	1.5
4	☐	125.000	130.233	894125.24	3.1870	P	0.5
5	☐	250.000	261.112	1689381.28	6.3895	A	0.8
6	☐	500.000	507.354	3354984.26	12.4147	A	1.0
7	☐	1000.000	992.682	6270662.75	24.2901	A	1.8
8	☐			15302.75	0.0585	P	0.9

$$y = 0.0245 * x + 4.0727\text{E-}004$$

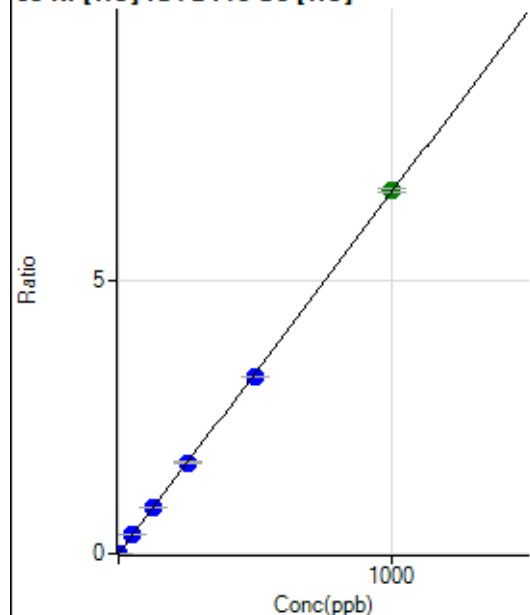
$$R = 0.9999$$

$$DL = 0.006197$$

$$BEC = 0.01664$$

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	291.12	0.0010	P	10.6
2	☐	1.000	0.925	1996.83	0.0071	P	4.2
3	☐	50.000	53.644	101583.51	0.3559	P	0.8
4	☐	125.000	129.331	240348.30	0.8567	P	0.7
5	☐	250.000	251.012	439355.57	1.6618	P	1.7
6	☐	500.000	489.946	876283.50	3.2427	P	0.7
7	☐	1000.000	1004.050	1715337.09	6.6442	A	0.9
8	☐			6331.47	0.0242	P	2.6

$$y = 0.0066 * x + 9.7858E-004$$

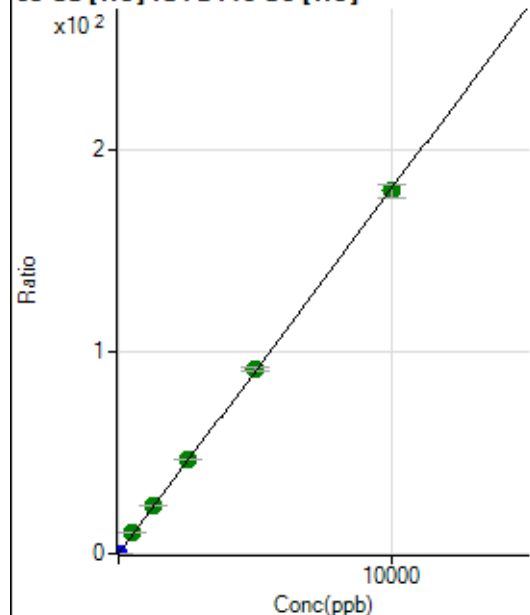
$$R = 0.9999$$

$$DL = 0.04682$$

$$BEC = 0.1479$$

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	1041.16	0.0035	P	7.8
2	☐	2.000	2.006	11195.63	0.0398	P	3.1
3	☐	500.000	561.796	2903938.78	10.1771	A	2.4
4	☐	1250.000	1324.500	6729298.16	23.9891	A	2.1
5	☐	2500.000	2575.317	12331738.84	46.6403	A	1.0
6	☐	5000.000	5052.677	24729290.19	91.5032	A	1.6
7	☐	10000.000	9942.430	46470495.97	180.0525	A	3.4
8	☐			11197.84	0.0428	P	0.7

$$y = 0.0181 * x + 0.0035$$

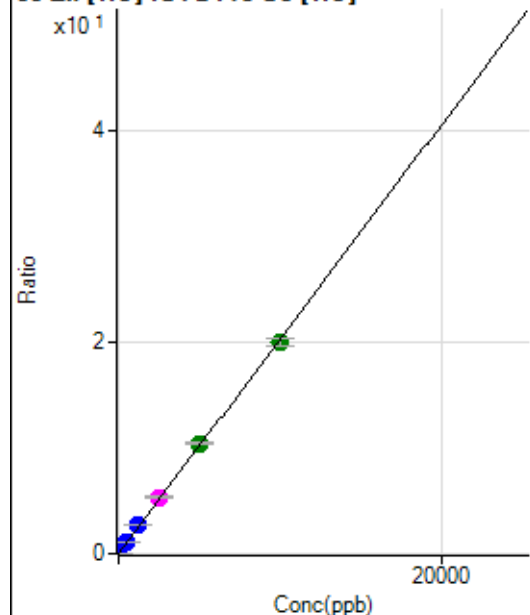
$$R = 0.9999$$

$$DL = 0.04511$$

$$BEC = 0.1933$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	706.69	0.0024	P	4.9
2	☐	2.000	2.214	1929.04	0.0069	P	6.8
3	☐	500.000	557.210	323080.79	1.1322	P	1.7
4	☐	1250.000	1327.908	756102.29	2.6949	P	0.5
5	☐	2500.000	2623.824	1407429.82	5.3225	M	1.8
6	☐	5000.000	5129.750	2811505.06	10.4036	A	1.2
7	☐	10000.000	9891.570	5177023.60	20.0588	A	3.5
8	☐			11072.20	0.0424	P	0.2

$$y = 0.0020 * x + 0.0024$$

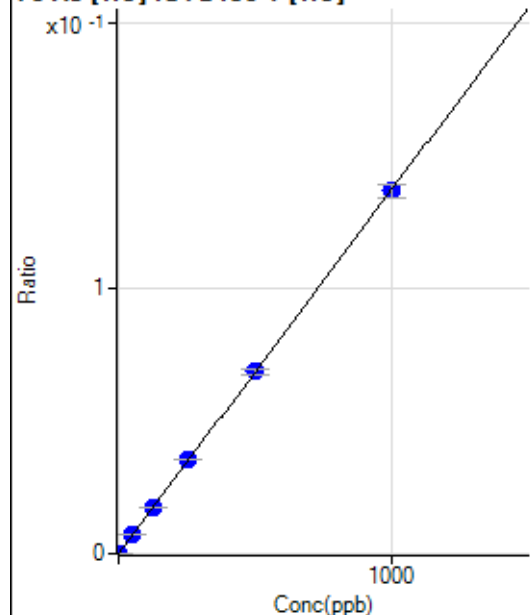
$$R = 0.9998$$

$$DL = 0.1716$$

$$BEC = 1.172$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	9.67	0.0000	P	37.3
2	☐	1.000	1.085	378.38	0.0002	P	7.1
3	☐	50.000	55.035	19269.71	0.0076	P	1.3
4	☐	125.000	128.531	45551.24	0.0177	P	0.6
5	☐	250.000	259.038	84729.78	0.0356	P	0.7
6	☐	500.000	499.620	168787.27	0.0686	P	2.2
7	☐	1000.000	997.237	322045.50	0.1370	P	3.6
8	☐			102.01	0.0000	P	6.2

$$y = 1.3733E-004 * x + 3.6183E-006$$

$$R = 1.0000$$

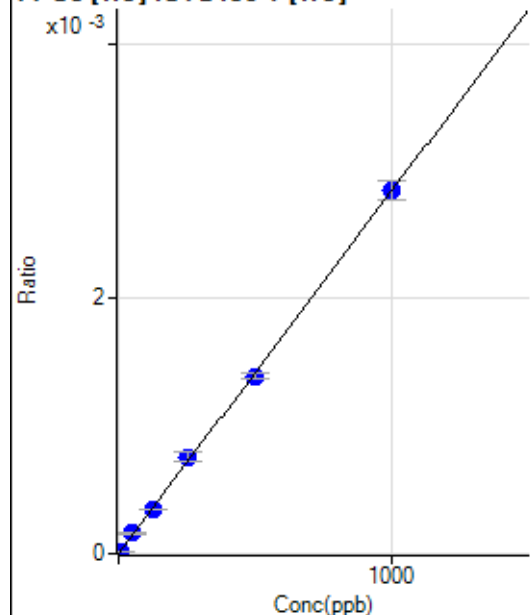
$$DL = 0.02947$$

$$BEC = 0.02635$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	3.944	27.78	0.0000	P	8.1
3	☐	50.000	56.048	405.57	0.0002	P	4.8
4	☐	125.000	122.443	897.82	0.0003	P	1.2
5	☐	250.000	267.451	1810.14	0.0008	P	8.6
6	☐	500.000	489.513	3423.80	0.0014	P	3.2
7	☐	1000.000	1000.903	6687.21	0.0028	P	5.4
8	☐			4.44	0.0000	P	113.4

$$y = 2.8422\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9997$$

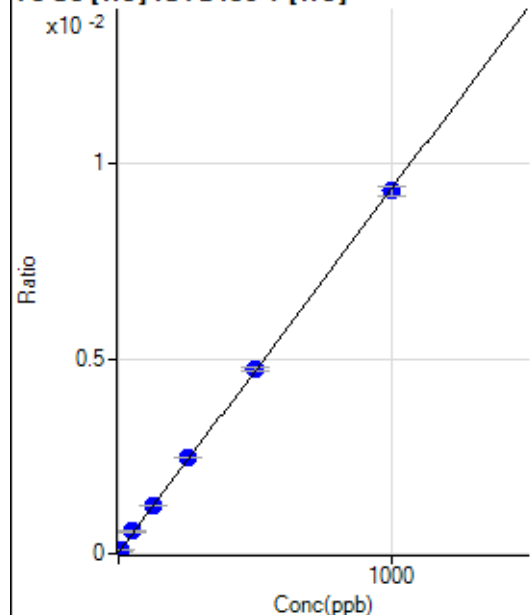
$$DL = 0$$

$$BEC = 0$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	91.34	0.0000	P	17.6
2	☐	5.000	6.171	227.03	0.0001	P	7.0
3	☐	50.000	57.572	1453.89	0.0006	P	3.5
4	☐	125.000	130.227	3219.36	0.0012	P	1.1
5	☐	250.000	262.465	5905.84	0.0025	P	0.6
6	☐	500.000	502.423	11600.28	0.0047	P	2.4
7	☐	1000.000	994.634	21877.83	0.0093	P	2.8
8	☐			86.68	0.0000	P	4.3

$$y = 9.3185\text{E-}006 * x + 3.4103\text{E-}005$$

$$R = 0.9999$$

$$DL = 1.931$$

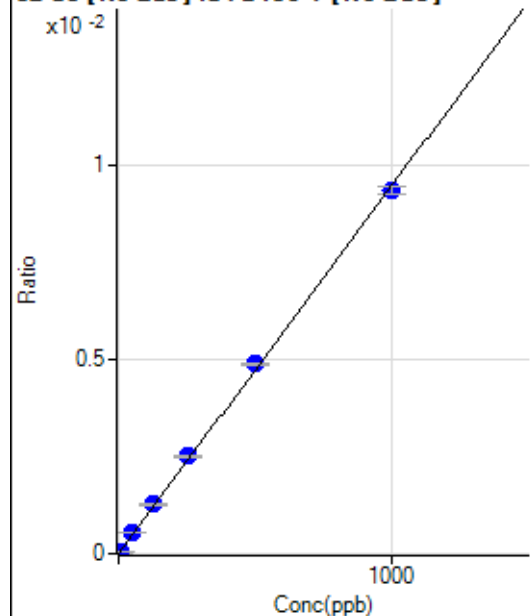
$$BEC = 3.66$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			29595.27		P	2.2
2	☐			27916.84		P	1.6
3	☐			27873.24		P	1.9
4	☐			27545.70		P	2.7
5	☐			26709.96		P	4.5
6	☐			27024.03		P	3.0
7	☐			27726.06		P	5.6
8	☐			27294.96		P	0.6

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	-119.85	0.0000	P	-117.
2	☐	5.000	5.055	856.68	0.0000	P	6.1
3	☐	50.000	56.979	11431.58	0.0005	P	2.2
4	☐	125.000	133.795	26916.85	0.0013	P	0.7
5	☐	250.000	264.845	52312.35	0.0025	P	1.6
6	☐	500.000	515.537	103839.77	0.0049	P	1.6
7	☐	1000.000	987.072	198294.90	0.0093	P	2.3
8	☐			124.00	0.0000	P	78.1

$$y = 9.4674E-006 * x - 5.6244E-006$$

$$R = 0.9997$$

$$DL = 2.085$$

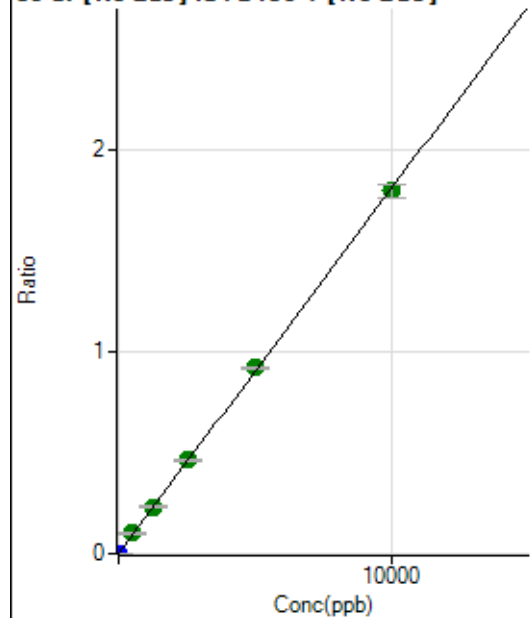
$$BEC = -0.5941$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4245.13		P	2.3
2	☐			4229.58		P	0.8
3	☐			4246.24		P	2.7
4	☐			4170.66		P	1.8
5	☐			4274.03		P	4.0
6	☐			4008.40		P	2.3
7	☐			4259.58		P	5.6
8	☐			4245.13		P	0.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	6735.12	0.0003	P	0.7
2	☐	1.000	1.016	10067.75	0.0005	P	4.0
3	☐	500.000	551.629	2140222.47	0.0999	A	1.0
4	☐	1250.000	1286.181	4964827.19	0.2326	A	0.8
5	☐	2500.000	2569.718	9713067.23	0.4644	A	2.6
6	☐	5000.000	5081.780	19555641.76	0.9181	A	0.7
7	☐	10000.000	9934.576	38092600.16	1.7944	A	3.9
8	☐			31355.34	0.0015	P	3.3

$$y = 1.8060E-004 * x + 3.1266E-004$$

$$R = 0.9999$$

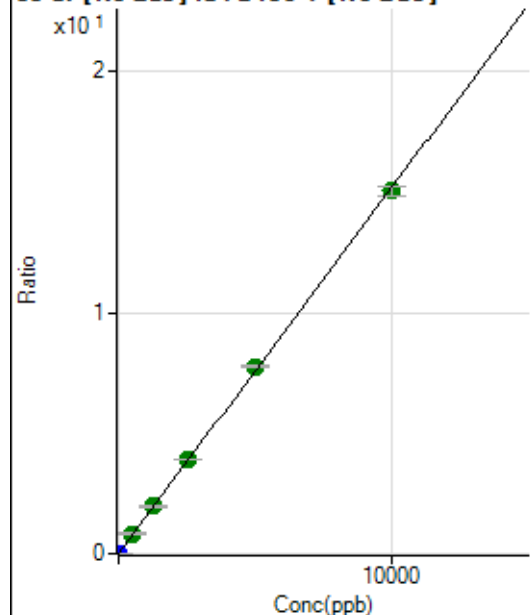
$$DL = 0.03597$$

$$BEC = 1.731$$

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	483.36	0.0000	P	25.9
2	☐	1.000	1.005	31388.83	0.0015	P	4.1
3	☐	500.000	547.003	17778849.18	0.8302	A	2.2
4	☐	1250.000	1295.640	41978219.00	1.9665	A	1.7
5	☐	2500.000	2581.946	81970867.80	3.9188	A	1.3
6	☐	5000.000	5106.461	165088755.0	7.7505	A	1.2
7	☐	10000.000	9918.228	319608265.4	15.0537	A	2.5
8	☐			214295.77	0.0100	P	1.5

$$y = 0.0015 * x + 2.2490E-005$$

$$R = 0.9999$$

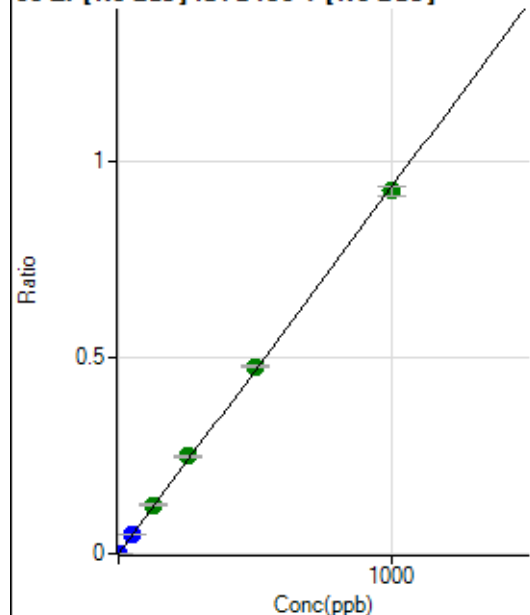
$$DL = 0.0115$$

$$BEC = 0.01482$$

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	877.82	0.0000	P	6.6
2	☐	1.000	0.967	19160.85	0.0009	P	3.4
3	☐	50.000	54.491	1091518.32	0.0510	P	1.7
4	☐	125.000	133.273	2659848.45	0.1246	A	1.9
5	☐	250.000	264.995	5181023.86	0.2477	A	2.7
6	☐	500.000	511.084	10177350.92	0.4778	A	0.5
7	☐	1000.000	989.451	19635473.70	0.9249	A	2.7
8	☐			9628.61	0.0005	P	0.3

$$y = 9.3470E-004 * x + 4.0755E-005$$

$$R = 0.9998$$

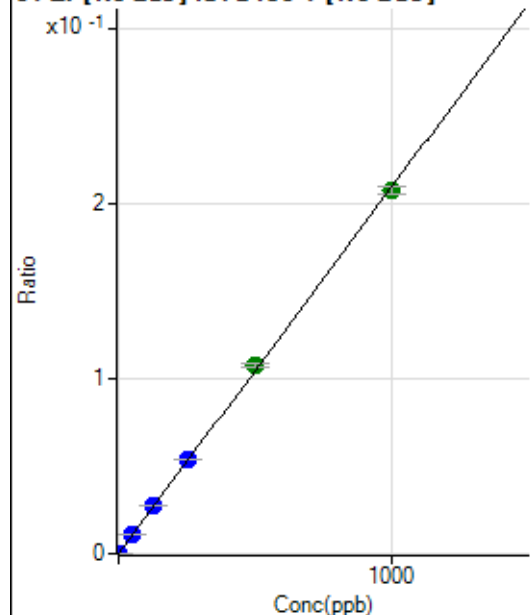
$$DL = 0.008569$$

$$BEC = 0.0436$$

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	213.89	0.0000	P	10.6
2	☐	1.000	0.961	4281.33	0.0002	P	1.7
3	☐	50.000	53.676	240542.70	0.0112	P	1.3
4	☐	125.000	130.936	584567.69	0.0274	P	0.9
5	☐	250.000	257.269	1125187.16	0.0538	P	0.5
6	☐	500.000	514.210	2290094.45	0.1075	A	2.8
7	☐	1000.000	990.152	4395906.22	0.2070	A	2.2
8	☐			2219.68	0.0001	P	5.0

$$y = 2.0909\text{E-}004 * x + 9.9355\text{E-}006$$

$$R = 0.9998$$

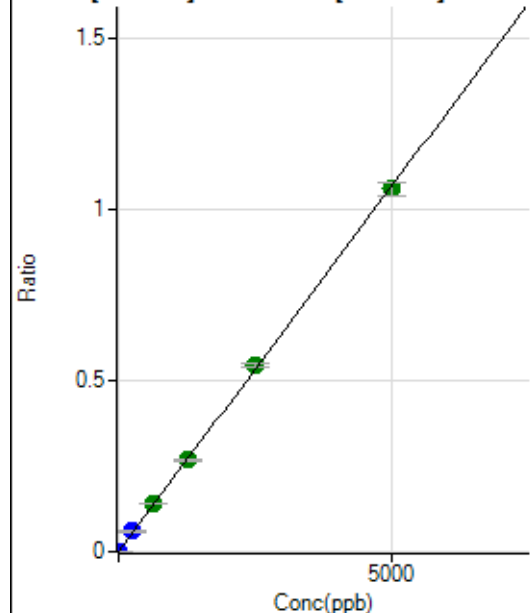
$$DL = 0.01514$$

$$BEC = 0.04752$$

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	361.12	0.0000	P	23.4
2	☐	5.000	4.953	21770.43	0.0011	P	2.0
3	☐	250.000	276.512	1262973.83	0.0590	P	1.0
4	☐	625.000	657.380	2991739.78	0.1402	A	2.9
5	☐	1250.000	1253.000	5586904.25	0.2672	A	1.6
6	☐	2500.000	2554.924	11603141.93	0.5448	A	1.8
7	☐	5000.000	4966.415	22478017.51	1.0589	A	3.5
8	☐			8174.85	0.0004	P	4.8

$$y = 2.1321\text{E-}004 * x + 1.6760\text{E-}005$$

$$R = 0.9999$$

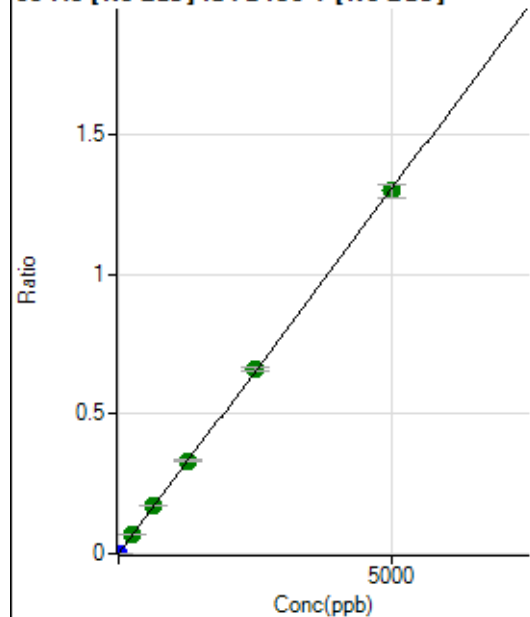
$$DL = 0.05529$$

$$BEC = 0.0786$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	86.11	0.0000	P	29.8
2	☐	5.000	5.016	26637.29	0.0013	P	3.8
3	☐	250.000	274.104	1531395.14	0.0715	A	1.2
4	☐	625.000	649.986	3619048.43	0.1696	A	1.1
5	☐	1250.000	1269.741	6925143.21	0.3312	A	2.7
6	☐	2500.000	2532.001	14068671.32	0.6605	A	1.5
7	☐	5000.000	4974.736	27545819.71	1.2977	A	3.8
8	☐			8005.27	0.0004	P	3.4

$$y = 2.6086\text{E-}004 * x + 3.9888\text{E-}006$$

$$R = 1.0000$$

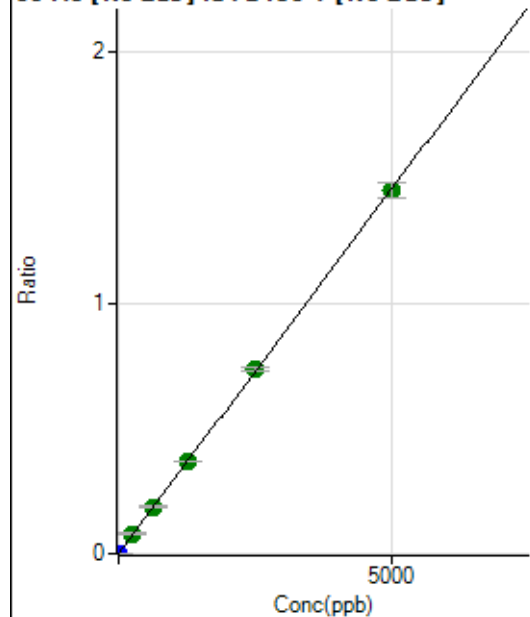
$$DL = 0.01369$$

$$BEC = 0.01529$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	163.90	0.0000	P	30.2
2	☐	5.000	5.073	30069.39	0.0015	P	3.8
3	☐	250.000	276.467	1721108.63	0.0804	A	1.2
4	☐	625.000	644.559	3999015.33	0.1874	A	0.9
5	☐	1250.000	1269.524	7717863.37	0.3690	A	1.0
6	☐	2500.000	2530.425	15665430.21	0.7355	A	2.4
7	☐	5000.000	4976.138	30699746.87	1.4463	A	4.2
8	☐			22082.13	0.0010	P	2.7

$$y = 2.9066\text{E-}004 * x + 7.6128\text{E-}006$$

$$R = 1.0000$$

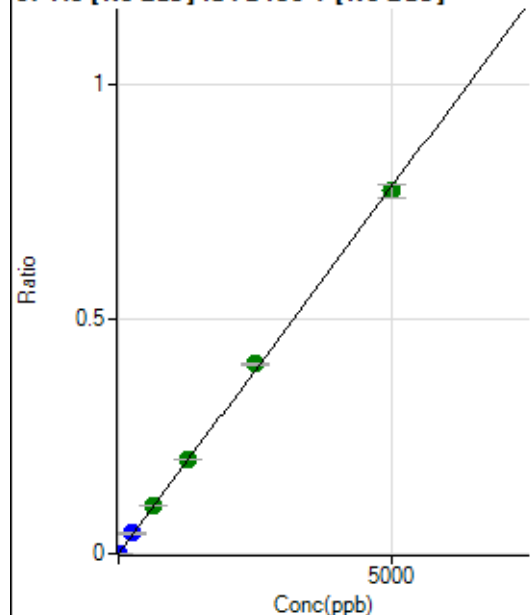
$$DL = 0.0237$$

$$BEC = 0.02619$$

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	41.67	0.0000	P	34.7
2	☐	5.000	4.928	15653.80	0.0008	P	1.0
3	☐	250.000	276.414	924056.34	0.0432	P	2.2
4	☐	625.000	654.548	2181070.93	0.1022	A	1.1
5	☐	1250.000	1282.572	4187412.46	0.2002	A	1.5
6	☐	2500.000	2584.162	8592988.64	0.4034	A	1.7
7	☐	5000.000	4944.762	16385871.37	0.7720	A	3.8
8	☐			4762.05	0.0002	P	3.1

$$y = 1.5611\text{E-}004 * x + 1.9343\text{E-}006$$

$$R = 0.9998$$

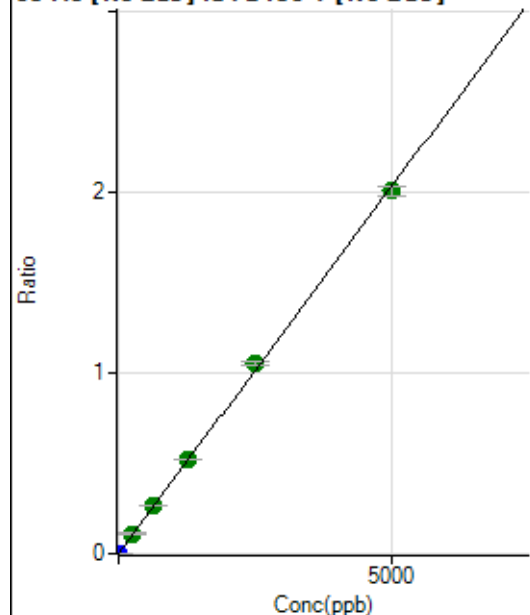
$$DL = 0.01288$$

$$BEC = 0.01239$$

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	119.45	0.0000	P	29.3
2	☐	5.000	4.875	40348.50	0.0020	P	2.4
3	☐	250.000	273.184	2377984.62	0.1111	A	2.9
4	☐	625.000	651.570	5653726.56	0.2649	A	2.3
5	☐	1250.000	1282.547	10903267.34	0.5214	A	1.3
6	☐	2500.000	2588.637	22412910.57	1.0523	A	2.4
7	☐	5000.000	4943.064	42663184.98	2.0094	A	2.4
8	☐			11591.29	0.0005	P	3.9

$$y = 4.0651\text{E-}004 * x + 5.5490\text{E-}006$$

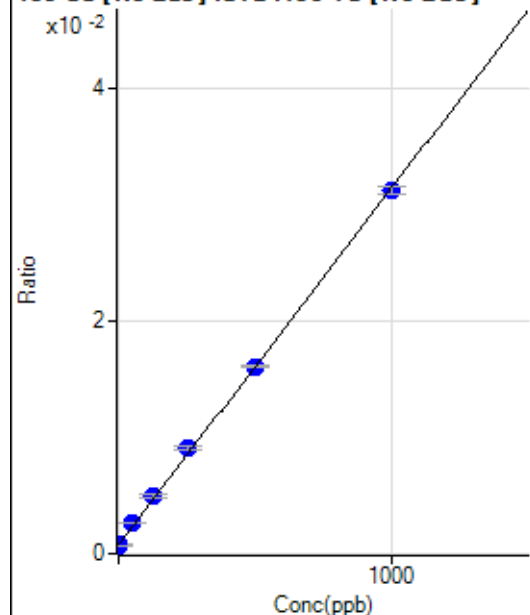
$$R = 0.9997$$

$$DL = 0.01199$$

$$BEC = 0.01365$$

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	6190.44	0.0008	P	4.6
2	☐	1.000	-0.973	5592.95	0.0007	P	3.6
3	☐	50.000	60.862	21297.41	0.0026	P	1.4
4	☐	125.000	139.387	40853.17	0.0050	P	6.8
5	☐	250.000	270.193	73944.34	0.0091	P	4.3
6	☐	500.000	500.271	142208.62	0.0161	P	1.1
7	☐	1000.000	992.477	267830.95	0.0312	P	2.1
8	☐			6057.05	0.0007	P	1.9

$$y = 3.0696E-005 * x + 7.5724E-004$$

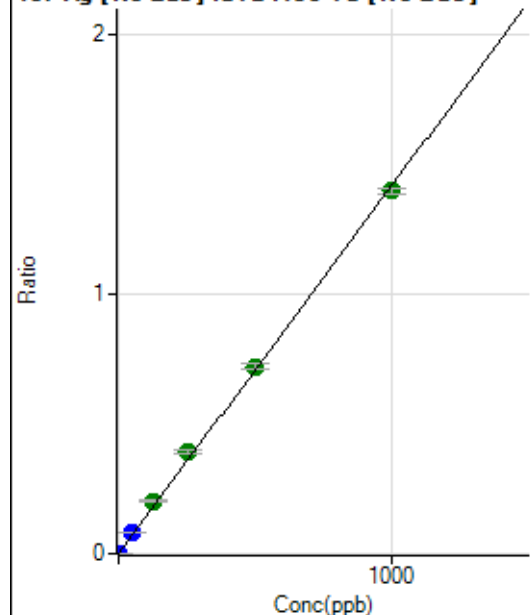
$$R = 0.9997$$

$$DL = 3.43$$

$$BEC = 24.67$$

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	111.11	0.0000	P	38.2
2	☐	1.000	1.034	11338.32	0.0015	P	3.2
3	☐	50.000	58.931	676341.84	0.0834	P	0.5
4	☐	125.000	143.016	1642358.86	0.2023	A	3.3
5	☐	250.000	277.258	3205250.05	0.3922	A	3.0
6	☐	500.000	507.554	6334031.82	0.7179	A	3.0
7	☐	1000.000	986.710	11976884.29	1.3956	A	1.4
8	☐			3214.35	0.0004	P	1.3

$$y = 0.0014 * x + 1.3579E-005$$

$$R = 0.9995$$

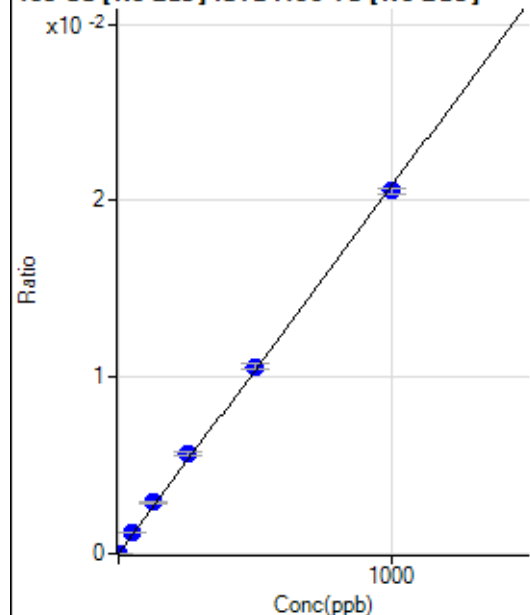
$$DL = 0.01101$$

$$BEC = 0.009601$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	47.22	0.0000	P	14.9
2	☐	1.000	1.284	250.00	0.0000	P	9.3
3	☐	50.000	58.658	9949.55	0.0012	P	3.2
4	☐	125.000	138.978	23528.64	0.0029	P	2.7
5	☐	250.000	270.906	46093.68	0.0056	P	4.0
6	☐	500.000	510.080	93693.45	0.0106	P	2.9
7	☐	1000.000	987.553	176333.64	0.0206	P	1.2
8	☐			162.50	0.0000	P	6.2

$$y = 2.0808\text{E-}005 * x + 5.7853\text{E-}006$$

$$R = 0.9996$$

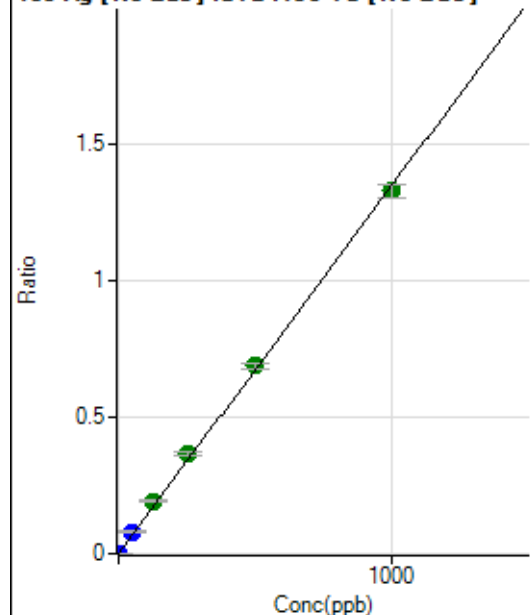
$$DL = 0.1242$$

$$BEC = 0.278$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	50.00	0.0000	P	17.6
2	☐	1.000	1.011	10512.61	0.0014	P	6.7
3	☐	50.000	59.584	651204.52	0.0803	P	1.8
4	☐	125.000	143.714	1572327.40	0.1936	A	3.2
5	☐	250.000	270.436	2976097.61	0.3644	A	4.7
6	☐	500.000	511.254	6077660.47	0.6888	A	2.8
7	☐	1000.000	986.446	11398178.47	1.3291	A	3.7
8	☐			3097.66	0.0004	P	7.5

$$y = 0.0013 * x + 6.1230\text{E-}006$$

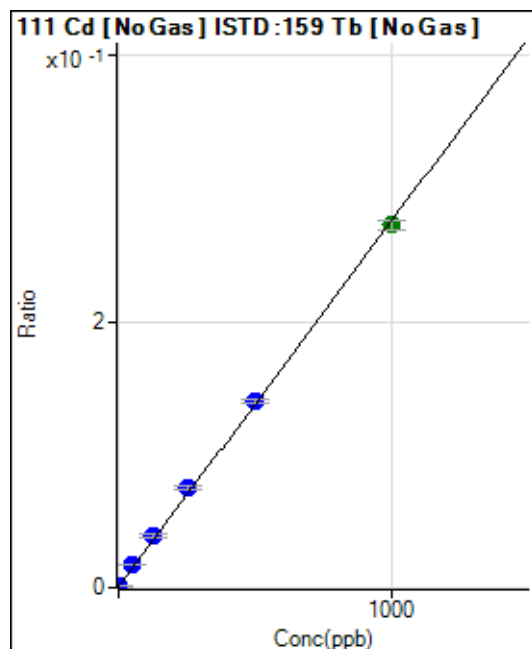
$$R = 0.9996$$

$$DL = 0.002394$$

$$BEC = 0.004545$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	4319.70	0.0005	P	4.8
2	☐	1.000	0.896	5958.33	0.0008	P	3.5
3	☐	50.000	59.643	137438.61	0.0169	P	1.8
4	☐	125.000	138.871	314435.42	0.0388	P	5.7
5	☐	250.000	270.551	612753.75	0.0750	P	3.8
6	☐	500.000	506.600	1234963.43	0.1400	P	2.2
7	☐	1000.000	989.346	2340042.40	0.2728	A	2.9
8	☐			4830.38	0.0006	P	1.0

$$y = 2.7524\text{E-}004 * x + 5.2839\text{E-}004$$

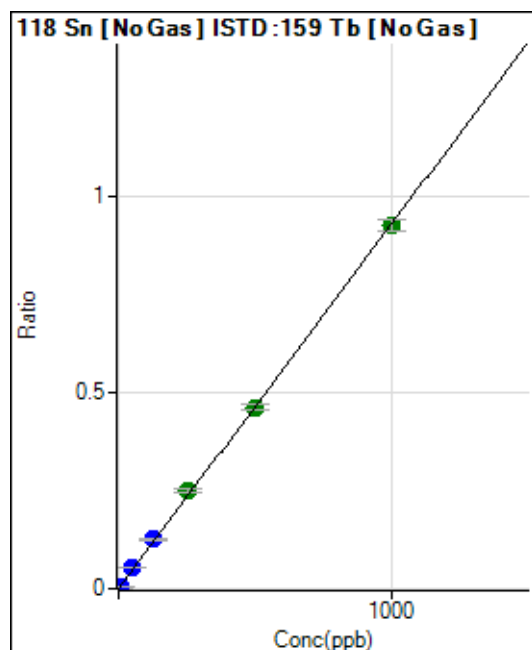
$$R = 0.9997$$

$$DL = 0.274$$

$$BEC = 1.92$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1550.13	0.0002	P	6.2
2	☐	5.000	5.222	38719.48	0.0050	P	1.7
3	☐	50.000	56.477	427054.78	0.0526	P	0.8
4	☐	125.000	136.532	1030899.87	0.1270	P	3.7
5	☐	250.000	268.227	2038371.53	0.2493	A	2.5
6	☐	500.000	496.950	4073341.06	0.4617	A	2.7
7	☐	1000.000	995.202	7928181.08	0.9244	A	3.3
8	☐			3506.10	0.0004	P	3.5

$$y = 9.2866\text{E-}004 * x + 1.8967\text{E-}004$$

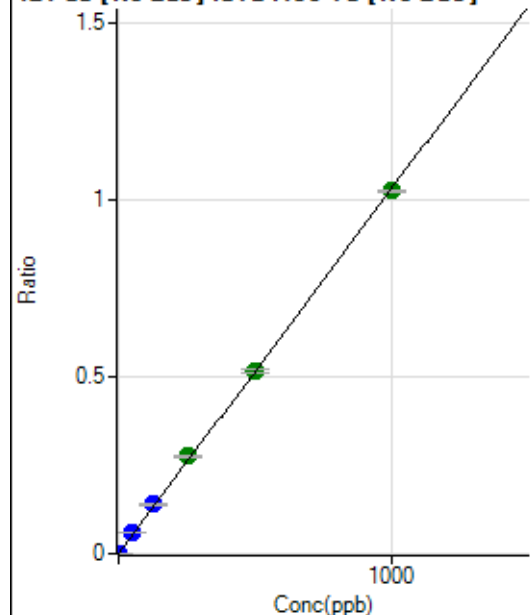
$$R = 0.9998$$

$$DL = 0.03818$$

$$BEC = 0.2042$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	63.89	0.0000	P	31.0
2	☐	2.000	1.981	15759.52	0.0021	P	2.1
3	☐	50.000	56.490	472450.55	0.0582	P	1.4
4	☐	125.000	135.045	1130050.39	0.1392	P	4.6
5	☐	250.000	267.532	2254308.49	0.2758	A	1.8
6	☐	500.000	499.463	4543356.65	0.5149	A	2.2
7	☐	1000.000	994.305	8794369.99	1.0251	A	0.8
8	☐			5181.71	0.0006	P	14.5

$$y = 0.0010 * x + 7.8358E-006$$

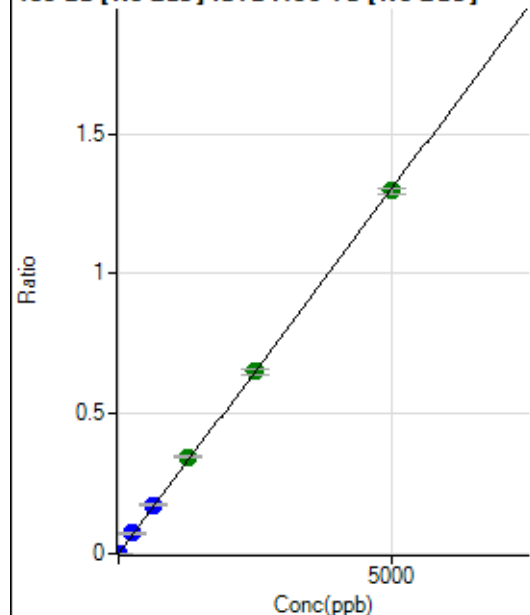
$$R = 0.9998$$

$$DL = 0.007075$$

$$BEC = 0.007601$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	41.67	0.0000	P	59.0
2	☐	10.000	9.850	19770.53	0.0026	P	0.8
3	☐	250.000	281.045	594093.59	0.0733	P	3.6
4	☐	625.000	667.455	1412488.87	0.1740	P	3.2
5	☐	1250.000	1329.210	2830698.26	0.3465	A	3.1
6	☐	2500.000	2497.761	5743805.38	0.6510	A	2.8
7	☐	5000.000	4974.458	11124024.12	1.2966	A	1.9
8	☐			3472.77	0.0004	P	2.5

$$y = 2.6064E-004 * x + 5.0702E-006$$

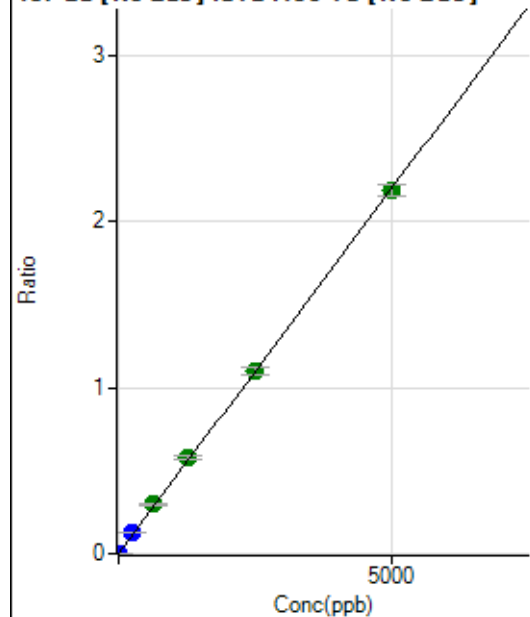
$$R = 0.9998$$

$$DL = 0.03441$$

$$BEC = 0.01945$$

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	58.34	0.0000	P	24.9
2	☐	10.000	10.160	34322.25	0.0045	P	6.5
3	☐	250.000	285.160	1015947.19	0.1252	P	1.1
4	☐	625.000	677.916	2416993.83	0.2977	A	3.8
5	☐	1250.000	1315.176	4718769.42	0.5776	A	3.6
6	☐	2500.000	2508.968	9719715.24	1.1019	A	4.0
7	☐	5000.000	4970.849	18723653.37	2.1831	A	3.1
8	☐			5898.71	0.0007	P	9.0

$$y = 4.3918E-004 * x + 7.1387E-006$$

$$R = 0.9999$$

$$DL = 0.01212$$

$$BEC = 0.01625$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	173.2
2	☐			13.34		P	86.6
3	☐			40.00		P	33.3
4	☐			91.11		P	11.2
5	☐			135.56		P	28.4
6	☐			257.79		P	7.5
7	☐			575.58		P	5.8
8	☐			124.45		P	8.2

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.2
2	☐			0.00		P	
3	☐			5.56		P	91.6
4	☐			4.44		P	43.4
5	☐			8.89		P	21.6
6	☐			14.45		P	48.0
7	☐			36.67		P	24.1
8	☐			44.44		P	34.6

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			16.67		P	100.0
2	☐			13.89		P	34.7
3	☐			30.56		P	41.7
4	☐			44.44		P	60.3
5	☐			97.23		P	32.5
6	☐			188.90		P	29.4
7	☐			491.69		P	12.8
8	☐			1583.47		P	5.0

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.2
2	☐			4.44		P	114.6
3	☐			15.55		P	24.8
4	☐			27.78		P	18.3
5	☐			42.22		P	9.1
6	☐			117.78		P	20.9
7	☐			207.78		P	13.1
8	☐			727.81		P	3.5

160 Gd [No Gas] Noavailable calibration poin_

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			69.45		P	34.6
2	☐			44.44		P	60.3
3	☐			83.34		P	45.8
4	☐			102.78		P	12.4
5	☐			150.00		P	34.7
6	☐			166.67		P	8.7
7	☐			311.12		P	39.5
8	☐			1147.31		P	8.5

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			76.67		P	19.9
2	☐			83.33		P	18.3
3	☐			92.22		P	10.4
4	☐			115.56		P	13.6
5	☐			106.67		P	11.3
6	☐			164.45		P	21.7
7	☐			212.23		P	4.8
8	☐			791.14		P	7.6

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			47.22		P	36.7
2	☐			50.00		P	44.1
3	☐			63.89		P	52.7
4	☐			77.78		P	43.3
5	☐			61.11		P	28.4
6	☐			83.34		P	10.0
7	☐			91.67		P	47.2
8	☐			233.35		P	18.9

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			28.89		P	33.3
2	☐			27.78		P	25.0
3	☐			41.11		P	9.4
4	☐			32.22		P	68.9
5	☐			32.22		P	21.5
6	☐			36.67		P	15.7
7	☐			37.78		P	18.4
8	☐			112.23		P	9.1

172 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			19.45		P	24.7
2	☐			25.00		P	57.7
3	☐			25.00		P	66.7
4	☐			22.22		P	78.1
5	☐			36.11		P	26.7
6	☐			55.56		P	8.7
7	☐			50.00		P	16.7
8	☐			119.45		P	16.1

172 Yb [He] No available calibration points

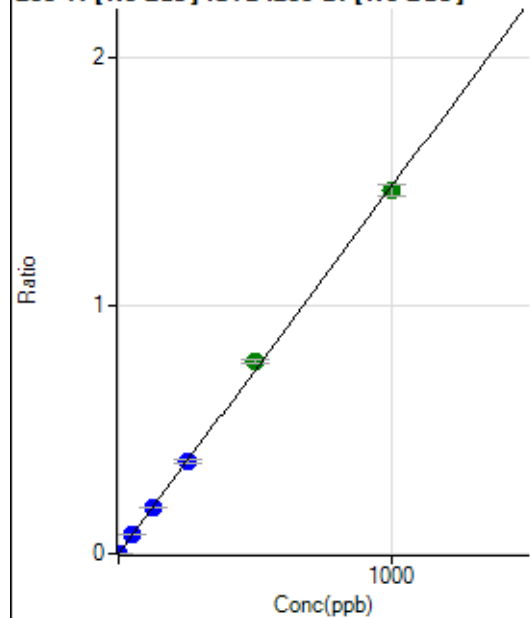
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			11.11		P	50.0
2	☐			11.11		P	50.0
3	☐			11.11		P	86.6
4	☐			18.52		P	75.5
5	☐			18.52		P	45.8
6	☐			11.11		P	50.0
7	☐			22.22		P	25.0
8	☐			77.78		P	31.1

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1150.09		P	9.1
2	☐			961.18		P	5.3
3	☐			2322.49		P	1.7
4	☐			4117.44		P	7.2
5	☐			7510.68		P	2.0
6	☐			14931.07		P	2.0
7	☐			28367.15		P	1.9
8	☐			1125.08		P	2.2

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5816.20		P	4.1
2	☐			5143.69		P	4.2
3	☐			6010.74		P	4.7
4	☐			7242.83		P	1.3
5	☐			8929.10		P	3.9
6	☐			12817.56		P	1.7
7	☐			19179.05		P	2.8
8	☐			5443.83		P	4.6

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	269.46	0.0001	P	9.9
2	☐	1.000	0.914	5270.70	0.0014	P	8.3
3	☐	50.000	51.974	301353.85	0.0769	P	1.2
4	☐	125.000	126.077	729271.35	0.1864	P	0.8
5	☐	250.000	250.337	1472737.23	0.3701	P	3.1
6	☐	500.000	523.010	3263068.69	0.7731	A	1.8
7	☐	1000.000	988.178	6041273.96	1.4606	A	3.0
8	☐			1169.54	0.0003	P	2.9

$$y = 0.0015 * x + 6.6971E-005$$

$$R = 0.9996$$

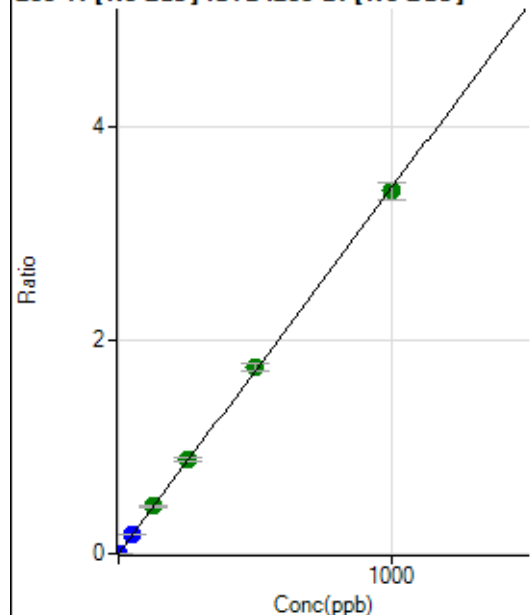
$$DL = 0.01352$$

$$BEC = 0.04531$$

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	619.48	0.0002	P	18.7
2	☐	1.000	0.942	12570.36	0.0034	P	3.1
3	☐	50.000	52.068	699554.90	0.1785	P	1.5
4	☐	125.000	129.470	1735154.15	0.4436	A	4.2
5	☐	250.000	258.360	3521760.41	0.8851	A	4.2
6	☐	500.000	509.909	7371499.38	1.7467	A	3.5
7	☐	1000.000	992.294	14052389.03	3.3990	A	4.6
8	☐			2647.57	0.0007	P	1.2

$$y = 0.0034 * x + 1.5394E-004$$

$$R = 0.9999$$

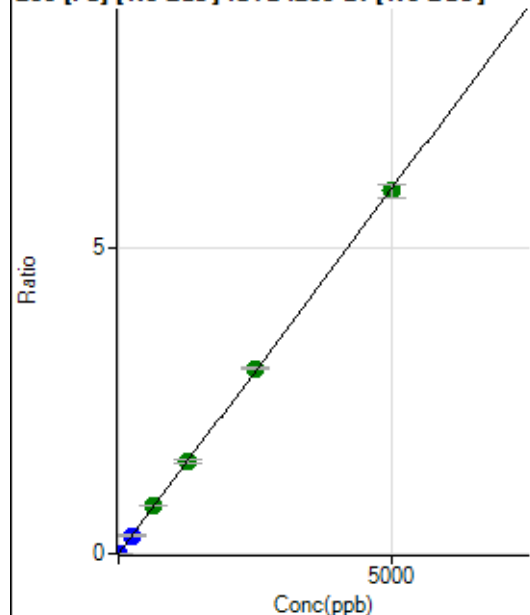
$$DL = 0.02517$$

$$BEC = 0.04494$$

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	557.43	0.0001	P	2.8
2	☐	1.000	0.909	4549.06	0.0012	P	3.1
3	☐	250.000	249.554	1166924.35	0.2981	P	5.5
4	☐	625.000	659.016	3078434.21	0.7870	A	2.8
5	☐	1250.000	1260.104	5988060.38	1.5047	A	4.2
6	☐	2500.000	2538.838	12795725.98	3.0315	A	0.6
7	☐	5000.000	4973.825	24558374.16	5.9388	A	4.0
8	☐			8215.74	0.0022	P	2.8

$$y = 0.0012 * x + 1.3838E-004$$

$$R = 0.9999$$

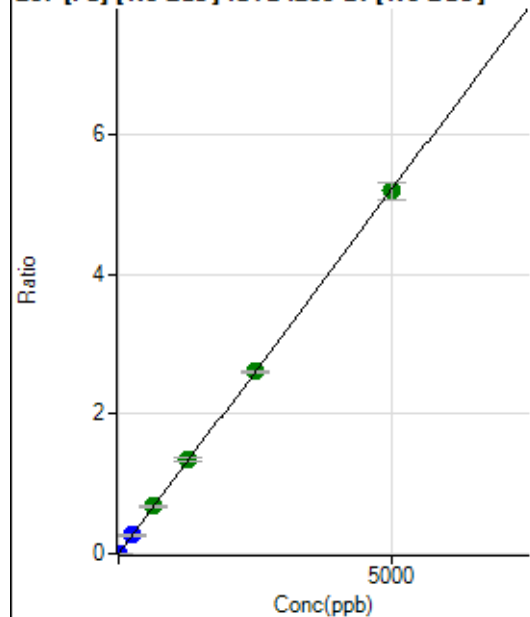
$$DL = 0.009762$$

$$BEC = 0.1159$$

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	570.39	0.0001	P	8.0
2	☐	1.000	0.904	4026.64	0.0011	P	4.0
3	☐	250.000	251.405	1026873.96	0.2622	P	4.4
4	☐	625.000	650.860	2654567.62	0.6787	A	3.9
5	☐	1250.000	1286.629	5337127.26	1.3415	A	4.6
6	☐	2500.000	2504.626	11022609.16	2.6112	A	0.9
7	☐	5000.000	4985.227	21484801.18	5.1973	A	5.0
8	☐			6953.86	0.0018	P	2.2

$$y = 0.0010 * x + 1.4150E-004$$

$$R = 1.0000$$

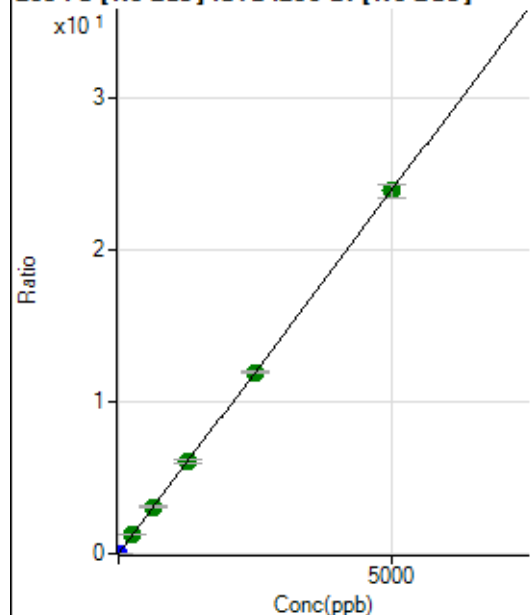
$$DL = 0.03242$$

$$BEC = 0.1357$$

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	2418.65	0.0006	P	4.8
2	☐	1.000	0.919	18564.94	0.0050	P	2.8
3	☐	250.000	258.793	4851455.48	1.2385	A	3.4
4	☐	625.000	646.408	12097663.03	3.0927	A	2.3
5	☐	1250.000	1272.942	24232551.47	6.0897	A	3.5
6	☐	2500.000	2493.250	50346310.96	11.9270	A	0.9
7	☐	5000.000	4994.524	98807254.29	23.8918	A	3.6
8	☐			32136.55	0.0084	P	0.9

$$y = 0.0048 * x + 6.0033E-004$$

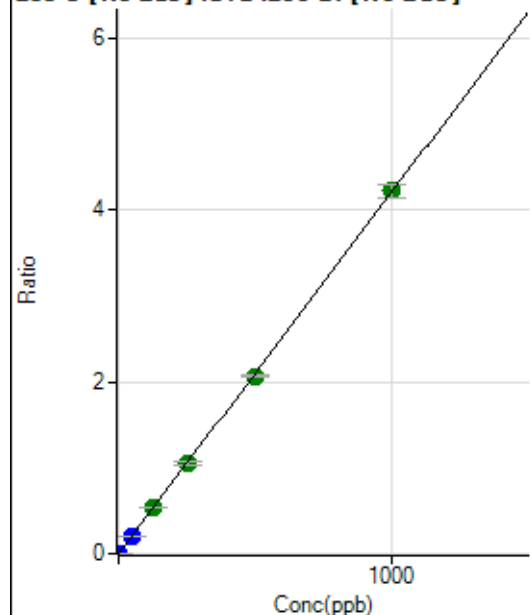
$$R = 1.0000$$

$$DL = 0.01804$$

$$BEC = 0.1255$$

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	16.66	0.0000	P	85.2
2	☐	1.000	0.862	13465.89	0.0036	P	6.6
3	☐	50.000	49.141	808328.07	0.2064	P	3.1
4	☐	125.000	126.067	2070922.05	0.5294	A	1.1
5	☐	250.000	249.891	4176162.85	1.0493	A	3.5
6	☐	500.000	491.592	8713066.95	2.0642	A	1.1
7	☐	1000.000	1004.141	17441392.58	4.2165	A	3.7
8	☐			1416.79	0.0004	P	7.2

$$y = 0.0042 * x + 4.1043E-006$$

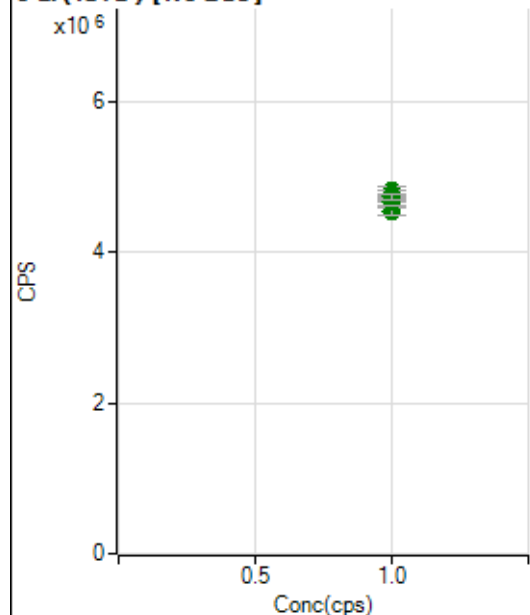
$$R = 0.9999$$

$$DL = 0.0025$$

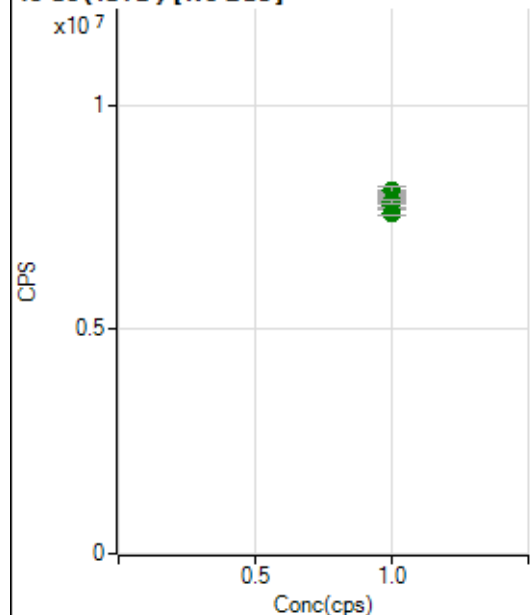
$$BEC = 0.0009774$$

Weight: <None>

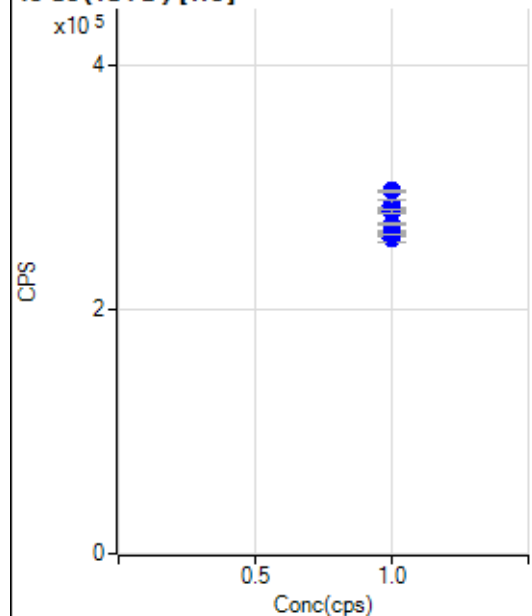
Min Conc: 0

6 Li (ISTD) [No Gas]

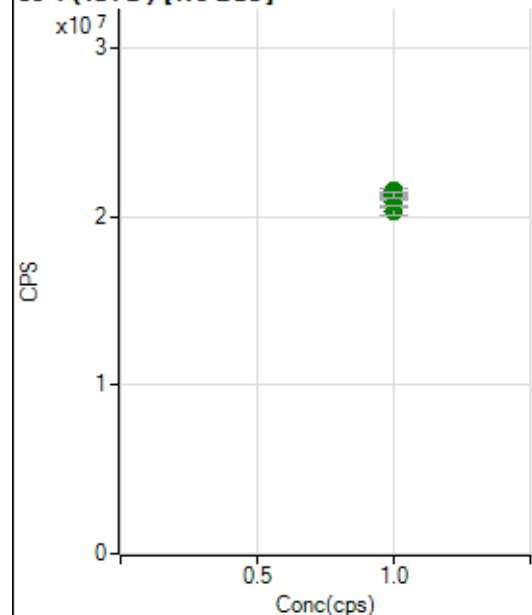
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4721586.95		A	1.9
2	☐	1.000		4549222.81		A	2.1
3	☐	1.000		4716234.65		A	1.3
4	☐	1.000		4811133.82		A	2.6
5	☐	1.000		4661198.14		A	2.4
6	☐	1.000		4779127.41		A	1.4
7	☐	1.000		4657254.26		A	1.7
8	☐	1.000		4733477.49		A	1.9

45 Sc (ISTD) [No Gas]

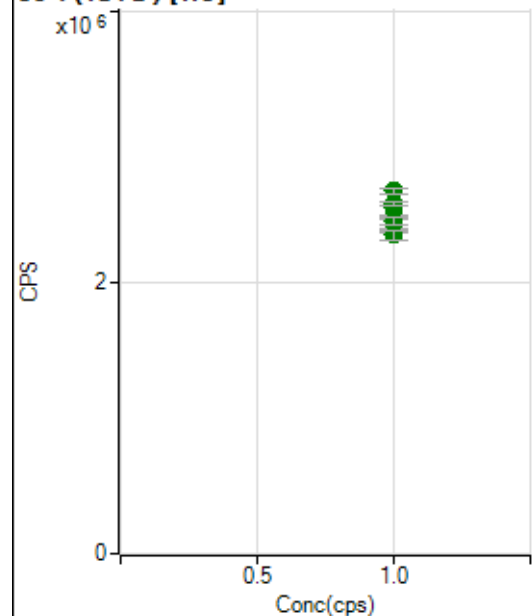
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8041482.24		A	1.2
2	☐	1.000		7610074.05		A	1.6
3	☐	1.000		7975004.46		A	1.9
4	☐	1.000		7966845.71		A	0.9
5	☐	1.000		7744213.15		A	1.1
6	☐	1.000		8090014.32		A	2.2
7	☐	1.000		7894075.78		A	1.5
8	☐	1.000		7835181.34		A	1.1

45 Sc (ISTD) [He]

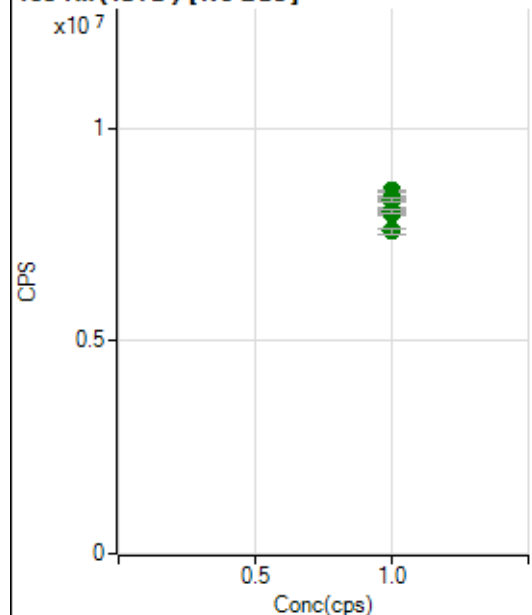
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		297389.29		P	0.5
2	☐	1.000		281096.74		P	1.9
3	☐	1.000		285465.44		P	3.4
4	☐	1.000		280559.01		P	1.1
5	☐	1.000		264408.61		P	0.6
6	☐	1.000		270242.44		P	0.9
7	☐	1.000		258197.31		P	1.8
8	☐	1.000		261412.18		P	0.2

89 Y (ISTD) [No Gas]

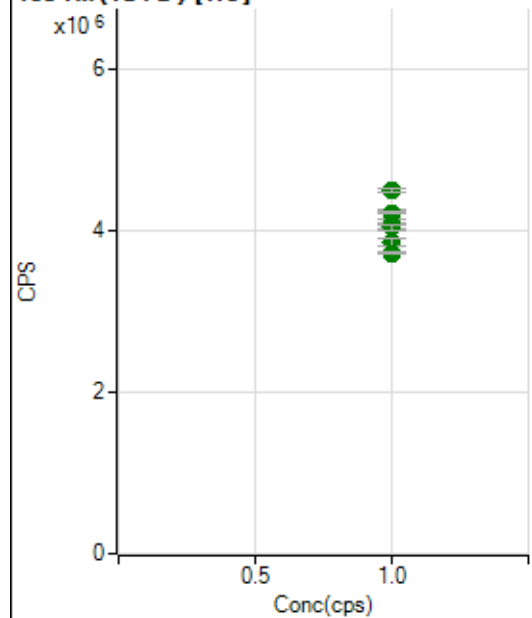
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		21542795.24		A	1.4
2	☐	1.000		20300074.84		A	2.2
3	☐	1.000		21415221.21		A	0.8
4	☐	1.000		21345079.54		A	0.7
5	☐	1.000		20915221.08		A	2.4
6	☐	1.000		21302131.35		A	1.0
7	☐	1.000		21239797.46		A	2.5
8	☐	1.000		21324987.32		A	1.4

89 Y (ISTD) [He]

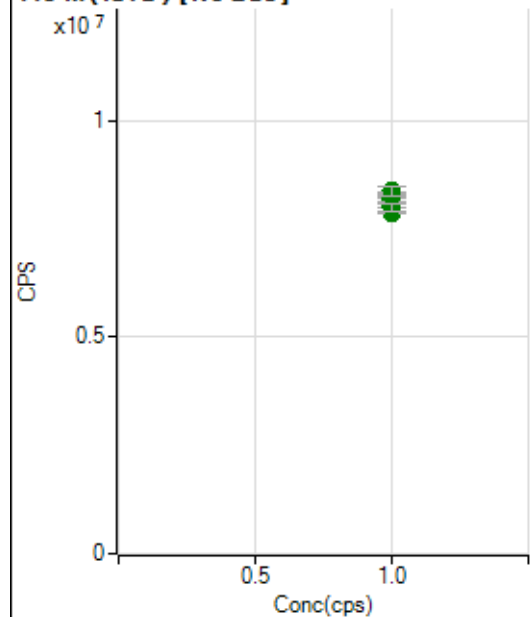
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2677234.68		A	1.4
2	☐	1.000		2479714.51		A	1.3
3	☐	1.000		2549118.73		A	3.9
4	☐	1.000		2580158.70		A	1.4
5	☐	1.000		2381568.58		A	1.1
6	☐	1.000		2460604.48		A	2.2
7	☐	1.000		2353046.75		A	3.0
8	☐	1.000		2453890.45		A	2.0

103 Rh (ISTD) [No Gas]

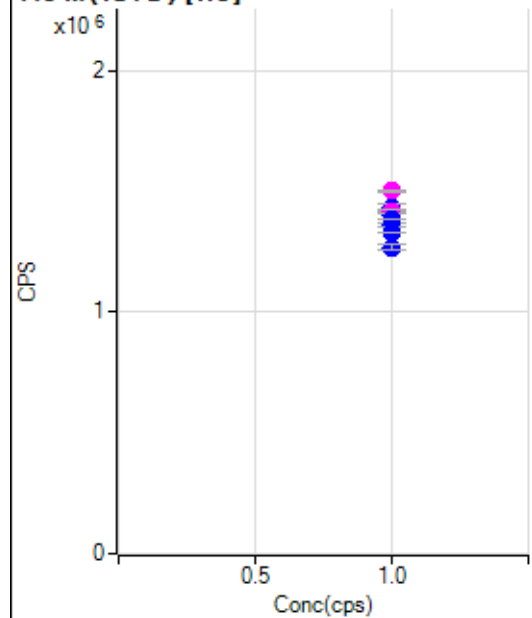
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8521407.31		A	0.5
2	☐	1.000		8002269.80		A	1.2
3	☐	1.000		8392143.50		A	2.2
4	☐	1.000		8337008.17		A	1.3
5	☐	1.000		8031988.63		A	2.3
6	☐	1.000		8314461.04		A	1.3
7	☐	1.000		8033118.06		A	1.5
8	☐	1.000		7569047.65		A	1.8

103 Rh (ISTD) [He]

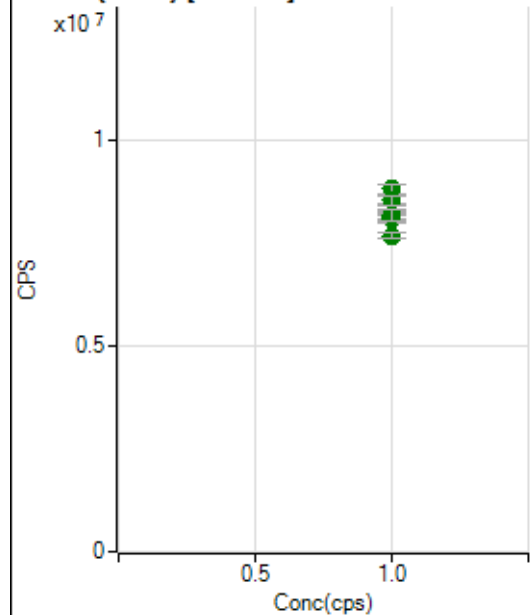
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4498699.27		A	1.0
2	☐	1.000		4112698.27		A	1.5
3	☐	1.000		4216694.07		A	2.9
4	☐	1.000		4229272.78		A	0.5
5	☐	1.000		4056269.21		A	1.7
6	☐	1.000		4042488.62		A	1.4
7	☐	1.000		3857349.80		A	2.2
8	☐	1.000		3730296.96		A	0.9

115 In (ISTD) [No Gas]

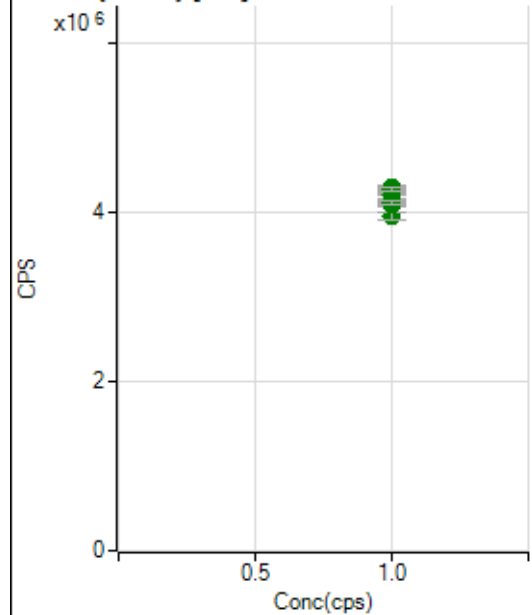
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8291506.29		A	1.8
2	☐	1.000		7883321.60		A	1.1
3	☐	1.000		8183537.92		A	0.9
4	☐	1.000		8111977.73		A	0.9
5	☐	1.000		8197385.34		A	2.4
6	☐	1.000		8379428.37		A	2.5
7	☐	1.000		8054358.95		A	1.3
8	☐	1.000		7991586.44		A	2.0

115 In (ISTD) [He]

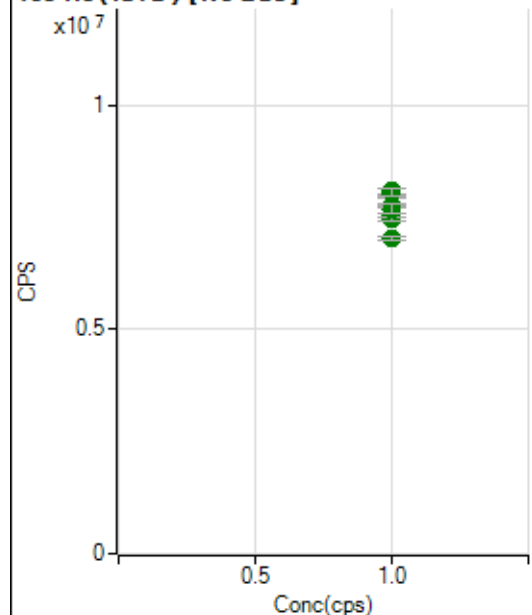
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1501643.10		M	0.8
2	☐	1.000		1399315.95		P	2.0
3	☐	1.000		1431596.20		P	1.9
4	☐	1.000		1418357.11		M	1.4
5	☐	1.000		1360284.56		P	1.0
6	☐	1.000		1385273.63		P	0.4
7	☐	1.000		1266223.32		P	2.0
8	☐	1.000		1327519.65		P	0.0

159 Tb (ISTD) [No Gas]

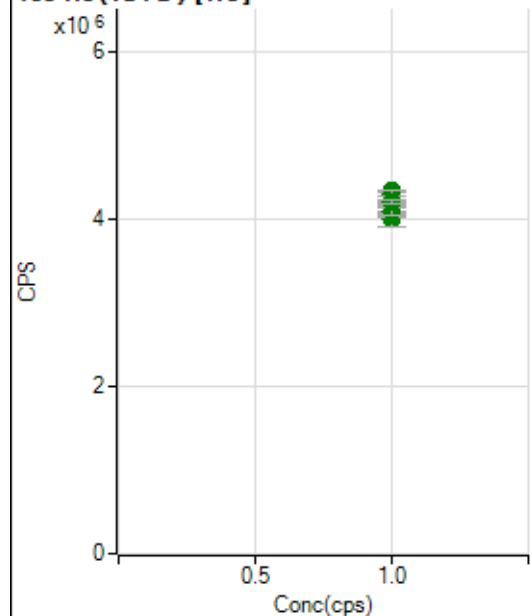
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8173856.06		A	1.4
2	☐	1.000		7685772.39		A	1.8
3	☐	1.000		8112640.85		A	1.6
4	☐	1.000		8124904.53		A	3.4
5	☐	1.000		8175850.71		A	3.3
6	☐	1.000		8826570.36		A	2.4
7	☐	1.000		8580337.65		A	2.2
8	☐	1.000		8552739.94		A	2.9

159 Tb (ISTD) [He]

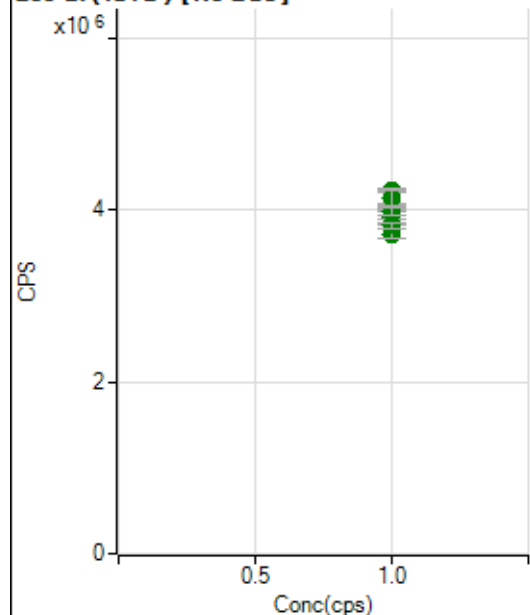
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4290273.65		A	0.9
2	☐	1.000		3958161.95		A	1.9
3	☐	1.000		4169668.90		A	1.4
4	☐	1.000		4196086.64		A	1.1
5	☐	1.000		4096778.03		A	1.0
6	☐	1.000		4277086.05		A	1.4
7	☐	1.000		4102216.08		A	2.0
8	☐	1.000		4115908.58		A	0.8

165 Ho (ISTD) [No Gas]

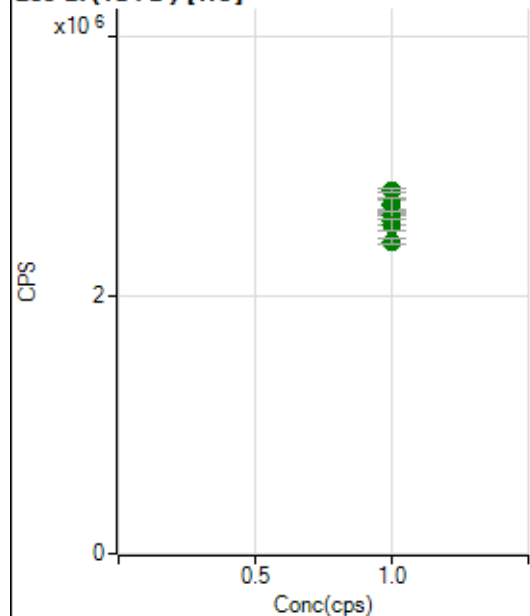
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7540374.73		A	0.6
2	☐	1.000		7022984.79		A	1.0
3	☐	1.000		7470236.10		A	1.0
4	☐	1.000		7752803.90		A	0.6
5	☐	1.000		7690093.57		A	2.7
6	☐	1.000		8084021.97		A	1.4
7	☐	1.000		8017718.06		A	2.8
8	☐	1.000		8052784.12		A	2.5

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4331567.64		A	0.8
2	☐	1.000		3985760.60		A	3.9
3	☐	1.000		4148064.52		A	2.4
4	☐	1.000		4166092.72		A	0.5
5	☐	1.000		4036785.36		A	0.7
6	☐	1.000		4304451.26		A	1.9
7	☐	1.000		4089281.71		A	2.1
8	☐	1.000		4199784.97		A	0.9

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4029114.91		A	2.1
2	☐	1.000		3718668.35		A	2.9
3	☐	1.000		3920694.49		A	4.4
4	☐	1.000		3912374.94		A	1.2
5	☐	1.000		3981367.44		A	2.3
6	☐	1.000		4221127.68		A	1.1
7	☐	1.000		4139620.18		A	4.2
8	☐	1.000		3816424.01		A	1.7

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2805731.24		A	0.9
2	☐	1.000		2578880.22		A	3.1
3	☐	1.000		2652309.12		A	1.1
4	☐	1.000		2698298.38		A	2.3
5	☐	1.000		2616381.11		A	2.7
6	☐	1.000		2701031.71		A	4.2
7	☐	1.000		2546514.15		A	3.6
8	☐	1.000		2416424.39		A	1.5

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP8102721 MS.b
Acq. Date-Time 2021-10-27 10:55:01
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		18961	189611.93			1.961	5.000
24		162068	1620682.33			3.772	5.000
25		21618	216183.20			2.257	5.000
26		24617	246174.47			2.421	5.000
59		39007	390073.35			2.566	5.000
113		13978	139776.14			2.765	5.000
115		42800	428002.34			2.330	5.000
206		12572	125719.38			2.687	5.000
207		10412	104117.18			2.585	5.000
208		25873	258725.13			2.345	5.000
220		1	7.40			27.612	

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

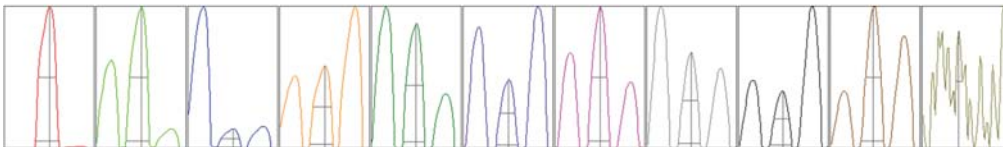
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	18603	19191	18517	19176	19319
24	162559	156278	156450	164024	171031
25	21305	21380	21126	22067	22214
26	24211	24535	23970	24884	25488
59	38226	38899	37876	39841	40195
113	13620	13835	13651	14400	14382
115	42085	42382	41798	43821	43916
206	12352	12406	12247	13032	12823
207	10165	10364	10160	10767	10604
208	25379	25655	25316	26690	26323

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	34338.03	9.05	8.90 - 9.10	
24	286682.44	24.05	23.90 - 24.10	
25	38274.09	25.05	24.90 - 25.10	
26	43136.02	26.05	25.90 - 26.10	
59	72906.94	59.00	58.90 - 59.10	
113	28580.81	113.05	112.90 - 113.10	
115	87527.52	115.05	114.90 - 115.10	
206	25210.64	206.00	205.90 - 206.10	
207	20968.17	207.00	206.90 - 207.10	
208	51892.68	207.95	207.90 - 208.10	
220	1.10	219.75	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.59	0.778	0.900	
24	0.60	0.784	0.900	
25	0.60	0.785	0.900	
26	0.61	0.784	0.900	
59	0.56	0.735	0.900	
113	0.50	0.725	0.900	
115	0.51	0.727	0.900	
206	0.51	0.738	0.900	
207	0.51	0.750	0.900	
208	0.51	0.762	0.900	
220	0.20			

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode ---

Nebulizer Gas 0.73 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	8.0 V	Deflect	14.8 V
Extract 2	-165.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-80 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	160 V		

QP Parameters

Mass Gain	124	Axis Gain	0.9991	QP Bias	-4.0 V
Mass Offset	124	Axis Offset	0.00		

Hardware Settings

Torch

Torch H	0.9 mm	Torch V	-0.8 mm
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EM

Discriminator	3.9 mV	Analog HV	2261 V	Pulse HV	1550 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		9284	92837.08			0.972	
89		24188	241880.00			0.795	
205		12561	125610.35			1.217	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	9143	9325	9363	9340	9247
89	23921	24305	24174	24427	24113
205	12375	12533	12596	12793	12508

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	8.0 V	Deflect	3.4 V
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US EPA Tune Check Report

Extract 2	-165.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-80 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	124	Axis Gain	0.9991	QP Bias	-13.0 V
Mass Offset	124	Axis Offset	0.00		

Hardware Settings

Torch

Torch H	0.9 mm	Torch V	-0.8 mm
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EM

Discriminator	3.9 mV	Analog HV	2261 V	Pulse HV	1550 V
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