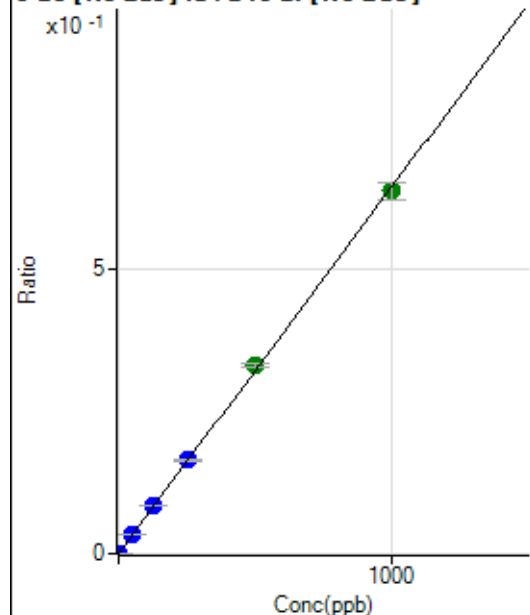


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8012623 MS-2.b\
Analysis File: P8012623 MS-2.batch.bin
DA Date-Time: 2023-01-26 16:09:42
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2023-01-26 13:51:00
2	005CALS.d	S02	2023-01-26 13:54:09
3	006CALS.d	S03	2023-01-26 13:57:21
4	007CALS.d	S04	2023-01-26 14:08:37
5	008CALS.d	S05	2023-01-26 14:11:43
6	009CALS.d	S06	2023-01-26 14:14:51
7	010CALS.d	S07	2023-01-26 14:17:57
8	011CALS.d	S08	2023-01-26 14:21:06

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	106.24	0.0000	P	37.4
2	☐	1.000	1.066	2719.92	0.0007	P	4.4
3	☐	50.000	53.198	131030.13	0.0344	P	1.3
4	☐	125.000	130.401	317265.90	0.0842	P	1.9
5	☐	250.000	254.993	628678.73	0.1647	P	1.5
6	☐	500.000	515.431	1220518.04	0.3329	A	1.6
7	☐	1000.000	990.201	2373858.22	0.6395	A	4.6
8	☐			1003.68	0.0003	P	40.6

$$y = 6.4579\text{E-}004 * x + 2.8462\text{E-}005$$

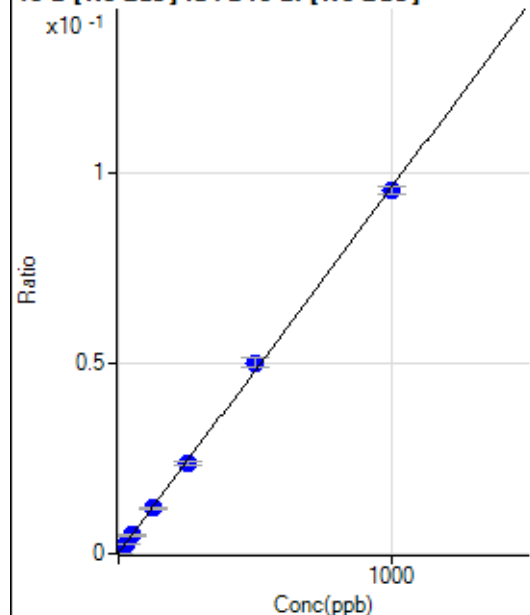
$$R = 0.9998$$

$$DL = 0.04944$$

$$BEC = 0.04407$$

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	377.93	0.0001	P	8.6
2	☐	25.000	23.059	8808.25	0.0023	P	1.8
3	☐	50.000	49.357	18494.71	0.0049	P	3.7
4	☐	125.000	124.595	45574.41	0.0121	P	3.4
5	☐	250.000	245.824	90691.38	0.0238	P	6.1
6	☐	500.000	520.902	184112.47	0.0503	P	5.6
7	☐	1000.000	990.724	354675.99	0.0955	P	2.3
8	☐			26466.65	0.0083	P	20.9

$$y = 9.6275\text{E-}005 * x + 1.0098\text{E-}004$$

$$R = 0.9997$$

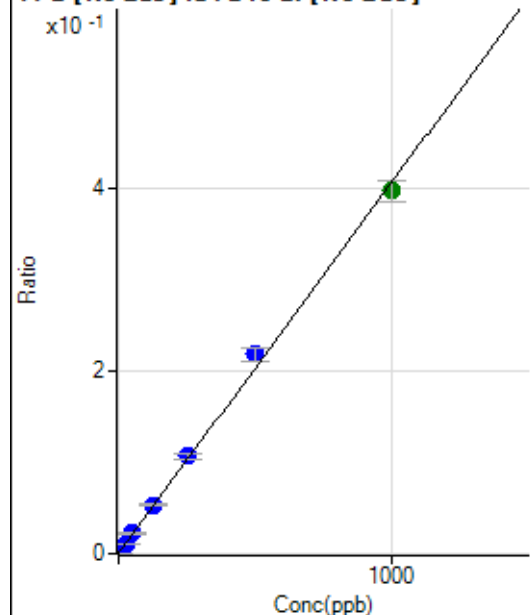
$$DL = 0.2698$$

$$BEC = 1.049$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1649.11	0.0004	P	8.7
2	☐	25.000	23.722	38217.60	0.0101	P	4.0
3	☐	50.000	54.038	85280.00	0.0224	P	3.9
4	☐	125.000	129.386	199466.01	0.0530	P	4.1
5	☐	250.000	262.560	408308.38	0.1070	P	5.3
6	☐	500.000	536.331	798997.20	0.2181	P	7.0
7	☐	1000.000	977.976	1475588.79	0.3973	A	6.0
8	☐			116401.20	0.0367	P	21.5

$$y = 4.0584\text{E-}004 * x + 4.4121\text{E-}004$$

$$R = 0.9989$$

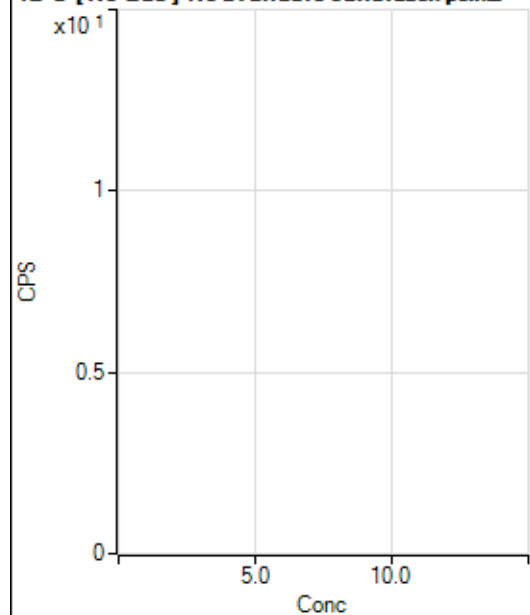
$$DL = 0.2826$$

$$BEC = 1.087$$

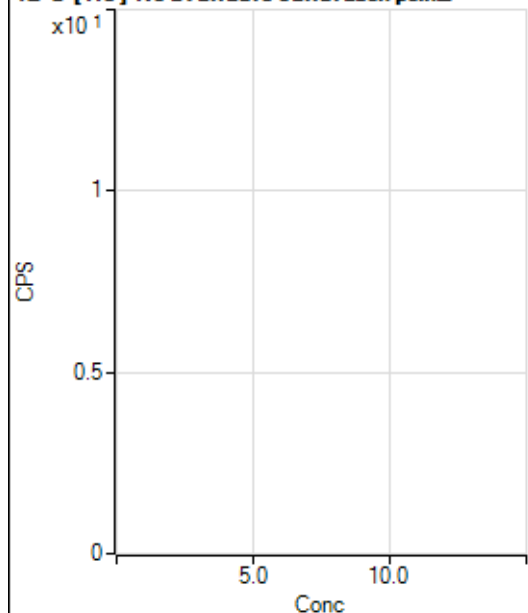
Weight: <None>

Min Conc: 0

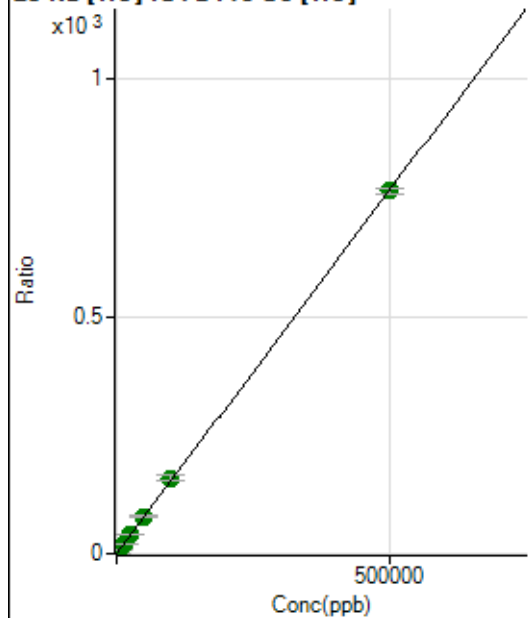
12 C [No Gas] No available calibration points



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			5241384.80		A	0.8
2	☐			5193229.94		A	2.4
3	☐			5376782.50		A	0.6
4	☐			5681259.50		A	1.9
5	☐			5975883.03		A	2.1
6	☐			6474639.04		A	1.8
7	☐			7183915.70		A	3.1
8	☐			5935100.48		A	2.2

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			61559.87		P	0.4
2	☐			63931.39		P	2.8
3	☐			65781.19		P	1.6
4	☐			68401.34		P	0.5
5	☐			73023.58		P	1.7
6	☐			86322.94		P	3.1
7	☐			90665.60		P	1.7
8	☐			77275.47		P	1.7

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	12438.88	0.0708	P	2.0
2	☐	500.000	504.195	150492.36	0.8439	P	2.6
3	☐	5000.000	5434.748	1476052.35	8.4045	A	12.8
4	☐	12500.000	12940.323	3607699.99	19.9136	A	2.6
5	☐	25000.000	26082.720	6988113.27	40.0662	A	1.6
6	☐	50000.000	50920.544	14338954.14	78.1526	A	4.4
7	☐	100000.00	103781.88	28771094.05	159.2104	A	8.0
8	☐	500000.00	499082.07	136324912.7	765.3656	A	1.4

$$y = 0.0015 * x + 0.0708$$

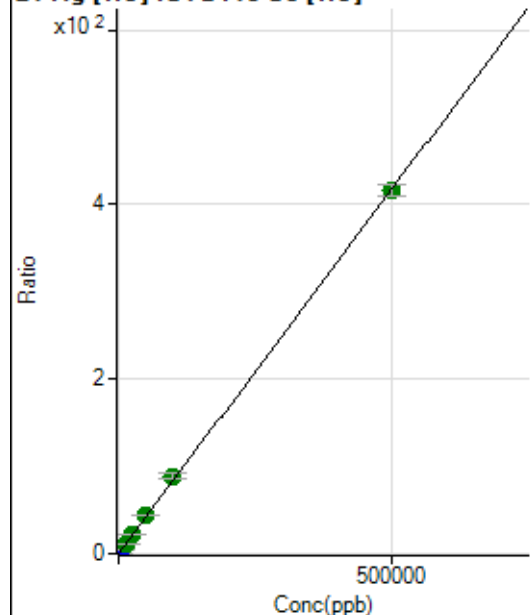
$$R = 1.0000$$

$$DL = 2.717$$

$$BEC = 46.18$$

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	261.12	0.0015	P	29.1
2	☐	500.000	512.922	76602.37	0.4296	P	4.2
3	☐	5000.000	5581.874	816976.16	4.6600	P	14.7
4	☐	12500.000	13537.329	2047272.18	11.2995	A	1.1
5	☐	25000.000	26729.799	3891413.63	22.3098	A	1.4
6	☐	50000.000	53099.004	8133670.58	44.3171	A	3.3
7	☐	100000.00	106882.85	16105717.55	89.2042	A	9.7
8	☐	500000.00	498195.27	74046565.54	415.7875	A	3.2

$$y = 8.3458\text{E-}004 * x + 0.0015$$

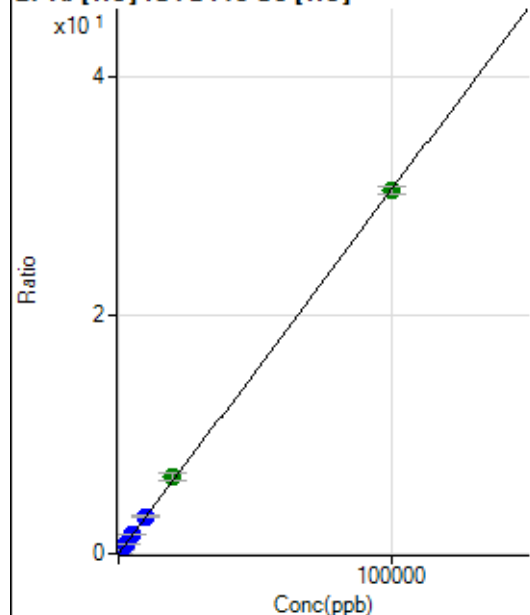
$$R = 0.9999$$

$$DL = 1.551$$

$$BEC = 1.778$$

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	54.57	0.0003	P	17.2
2	☐	20.000	20.918	1194.49	0.0067	P	4.9
3	☐	1000.000	1076.310	57644.43	0.3289	P	15.0
4	☐	2500.000	2557.752	141556.35	0.7812	P	0.9
5	☐	5000.000	5268.220	280622.76	1.6087	P	2.5
6	☐	10000.000	10233.367	573104.84	3.1245	P	5.1
7	☐	20000.000	21266.779	1172650.09	6.4929	A	8.7
8	☐	100000.00	99707.689	5421595.80	30.4403	A	2.1

$$y = 3.0529\text{E-}004 * x + 3.1106\text{E-}004$$

$$R = 0.9999$$

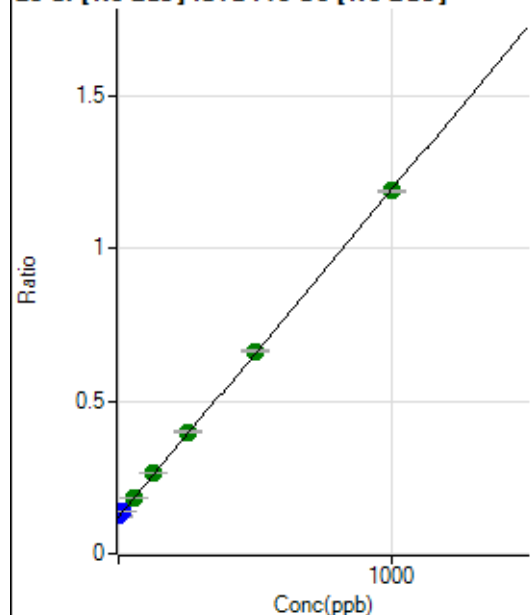
$$DL = 0.5262$$

$$BEC = 1.019$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	746235.30	0.1239	P	2.0
2	☐	10.000	14.168	809695.36	0.1391	P	3.0
3	☐	50.000	54.731	1079474.54	0.1825	A	3.0
4	☐	125.000	130.387	1563665.54	0.2634	A	1.2
5	☐	250.000	258.010	2345762.92	0.3999	A	0.9
6	☐	500.000	503.366	3879204.16	0.6623	A	1.1
7	☐	1000.000	995.363	7059011.62	1.1884	A	0.4
8	☐			1196843.40	0.2294	A	14.8

$$y = 0.0011 * x + 0.1239$$

$$R = 1.0000$$

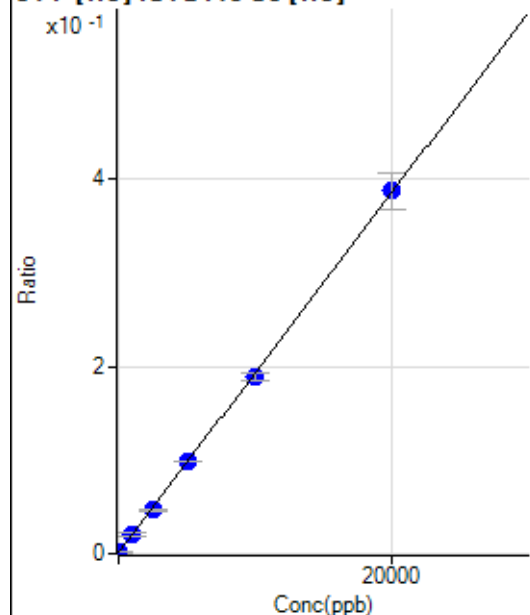
$$DL = 6.804$$

$$BEC = 115.9$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-19.505	177.78	0.0010	P	22.0
2	☐	0.000	19.505	313.90	0.0018	P	4.7
3	☐	1000.000	1032.323	3708.92	0.0212	P	18.5
4	☐	2500.000	2366.444	8497.11	0.0469	P	4.2
5	☐	5000.000	5053.310	17188.44	0.0985	P	0.8
6	☐	10000.000	9793.314	34806.32	0.1897	P	4.1
7	☐	20000.000	20105.094	70011.66	0.3879	P	10.3
8	☐			266.68	0.0015	P	23.1

$$y = 1.9226E-005 * x + 0.0014$$

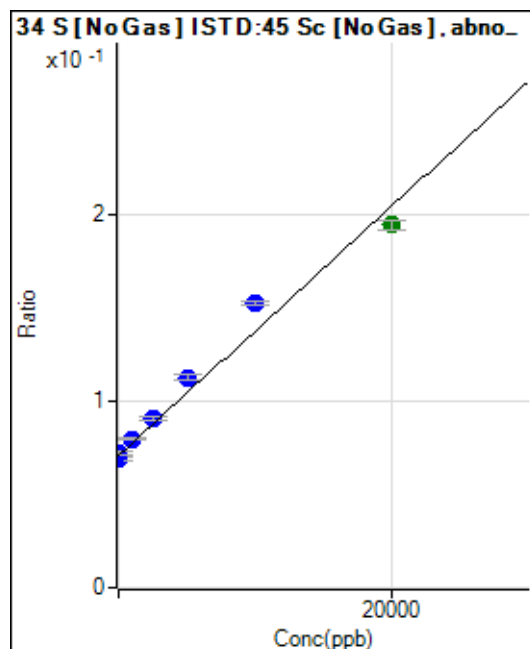
$$R = 0.9999$$

$$DL = 23.76$$

$$BEC = 72.06$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	-228.670	417233.87	0.0693	P	2.3
2	☐	0.000	228.670	421283.10	0.0724	P	2.2
3	☐	1000.000	1340.384	472144.28	0.0798	P	1.0
4	☐	2500.000	3009.203	539906.23	0.0910	P	1.8
5	☐	5000.000	6256.882	660925.76	0.1127	P	2.4
6	☐	10000.000	12238.449	894468.82	0.1527	P	1.3
7	☐	20000.000	18485.885	1154797.85	0.1945	A	3.0
8	☐			358166.17	0.0685	P	12.1

$$y = 6.6904\text{E-}006 * x + 0.0708$$

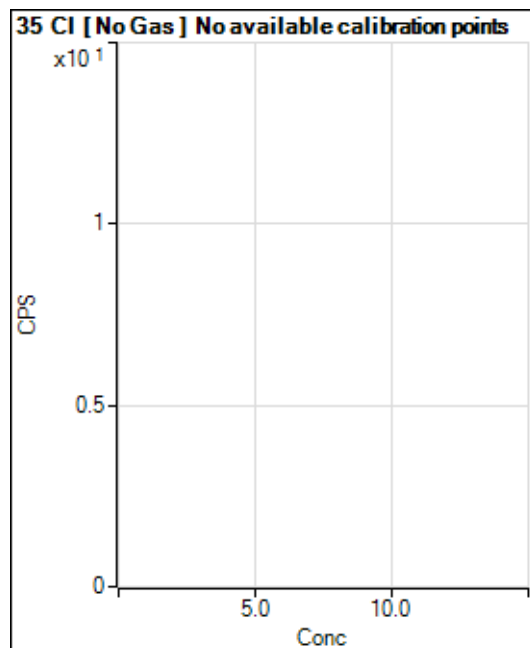
$$R = 0.9874$$

$$DL = 723.4$$

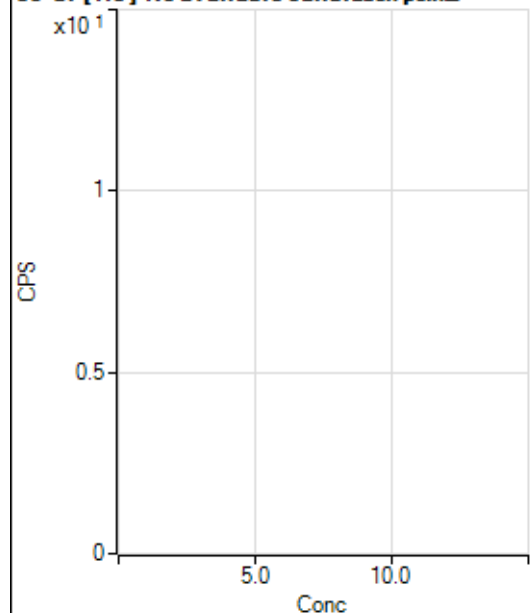
$$BEC = 1.059\text{E}+04$$

Weight: <None>

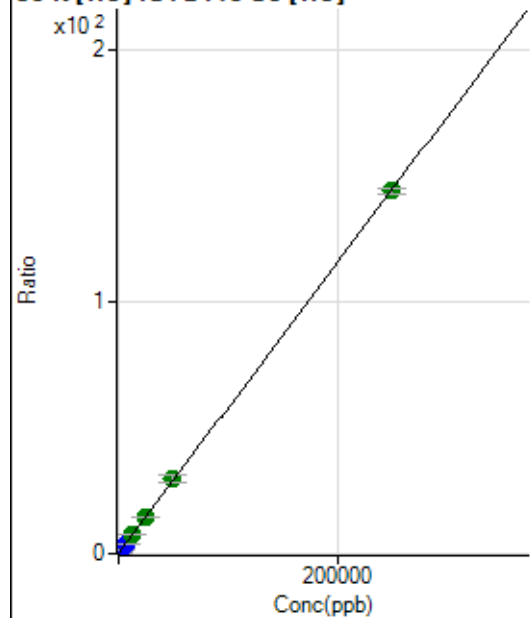
Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			130207.44		P	0.6
2	☐			134493.40		P	1.3
3	☐			151161.87		P	1.8
4	☐			153878.80		P	0.7
5	☐			153792.38		P	0.7
6	☐			156872.09		P	0.2
7	☐			161499.85		P	1.2
8	☐			154732.31		P	1.5

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			827.82		P	15.2
2	☐			855.61		P	12.0
3	☐			950.06		P	12.7
4	☐			975.06		P	9.2
5	☐			986.17		P	4.0
6	☐			1002.84		P	7.7
7	☐			1047.29		P	11.6
8	☐			1005.62		P	7.0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	19444.03	0.1107	P	2.8
2	☐	500.000	491.475	70293.96	0.3942	P	1.8
3	☐	2500.000	2630.736	285518.53	1.6281	P	14.5
4	☐	6250.000	6291.359	677600.98	3.7396	P	1.4
5	☐	12500.000	13018.439	1329345.63	7.6198	A	0.9
6	☐	25000.000	25203.261	2689349.71	14.6481	A	2.8
7	☐	50000.000	51826.645	5414043.39	30.0045	A	10.3
8	☐	250000.00	249586.09	25663224.36	144.0731	A	1.5

$$y = 5.7680E-004 * x + 0.1107$$

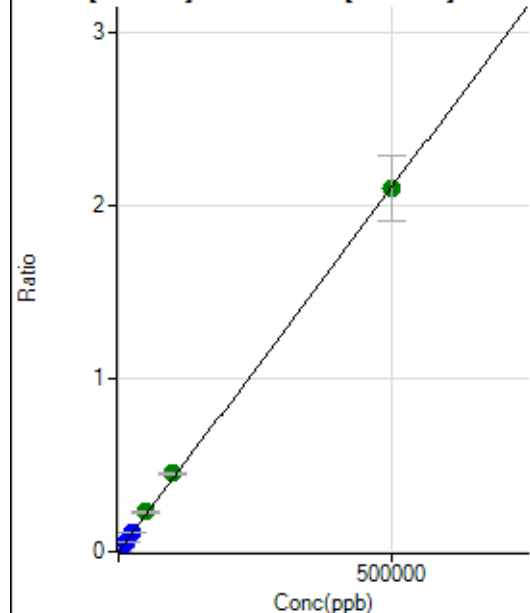
$$R = 1.0000$$

$$DL = 16.31$$

$$BEC = 191.9$$

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	149.98	0.0000	P	5.3
2	☐	500.000	474.207	11768.77	0.0020	P	3.6
3	☐	5000.000	5441.828	135743.90	0.0229	P	1.3
4	☐	12500.000	13280.964	332111.36	0.0560	P	2.1
5	☐	25000.000	26468.136	653923.01	0.1115	P	1.7
6	☐	50000.000	54210.451	1337364.76	0.2283	A	1.8
7	☐	100000.00	106965.38	2674435.70	0.4505	A	3.0
8	☐	500000.00	498088.55	10910826.58	2.0975	A	18.2

$$y = 4.2110\text{E-}006 * x + 2.4917\text{E-}005$$

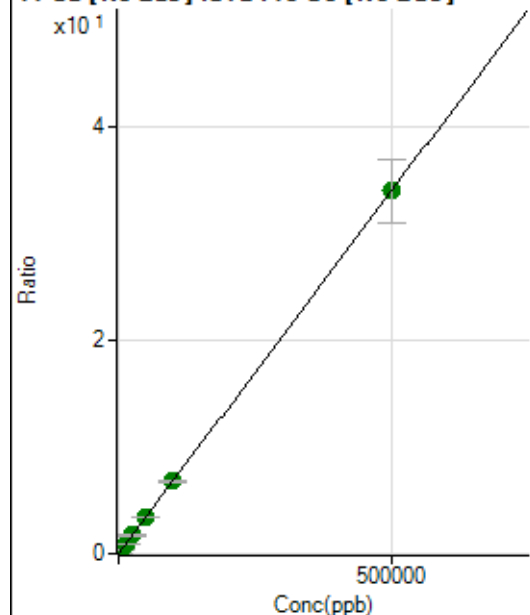
$$R = 0.9999$$

$$DL = 0.94$$

$$BEC = 5.917$$

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	7548.99	0.0013	P	2.2
2	☐	500.000	474.781	195115.67	0.0335	P	3.8
3	☐	5000.000	5224.125	2107940.26	0.3563	A	2.8
4	☐	12500.000	12690.144	5126931.02	0.8637	A	2.4
5	☐	25000.000	25400.496	10132685.72	1.7275	A	2.0
6	☐	50000.000	50608.540	20154212.42	3.4407	A	0.7
7	☐	100000.00	99774.410	40268119.88	6.7820	A	2.7
8	☐	500000.00	499957.27	176815645.0	33.9788	A	17.8

$$y = 6.7961\text{E-}005 * x + 0.0013$$

$$R = 1.0000$$

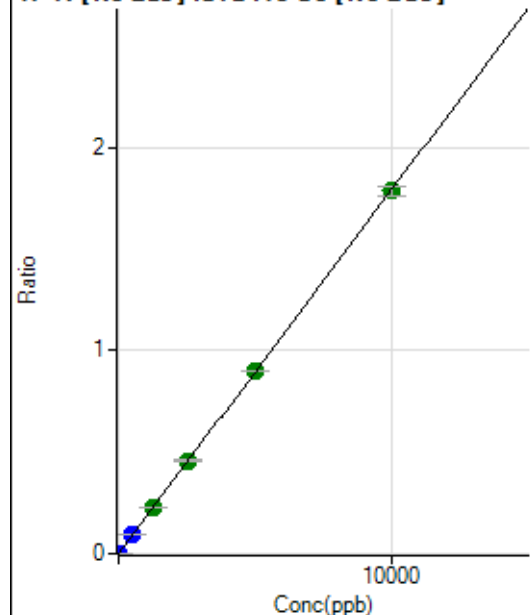
$$DL = 1.225$$

$$BEC = 18.45$$

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	272.23	0.0000	P	16.4
2	☐	5.000	5.289	5767.99	0.0010	P	7.6
3	☐	500.000	520.628	551550.43	0.0932	P	0.8
4	☐	1250.000	1266.247	1345458.86	0.2266	A	2.0
5	☐	2500.000	2555.845	2682613.34	0.4574	A	2.8
6	☐	5000.000	5019.156	5261448.60	0.8982	A	0.7
7	☐	10000.000	9973.398	10596845.64	1.7847	A	2.8
8	☐			11018.89	0.0021	P	16.0

$$y = 1.7895\text{E-}004 * x + 4.5150\text{E-}005$$

$$R = 1.0000$$

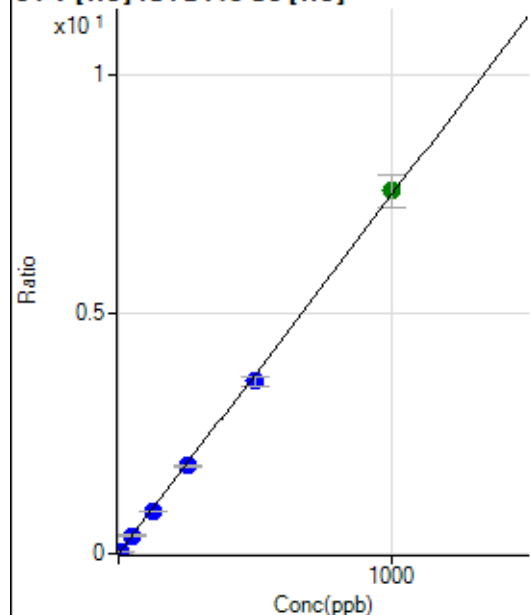
$$DL = 0.1238$$

$$BEC = 0.2523$$

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	11.11	0.0001	P	75.6
2	☐	5.000	4.775	6382.61	0.0358	P	5.9
3	☐	50.000	49.683	65248.05	0.3718	P	13.7
4	☐	125.000	119.566	162109.88	0.8946	P	1.0
5	☐	250.000	244.175	318684.60	1.8269	P	2.0
6	☐	500.000	481.007	660178.37	3.5989	P	4.9
7	☐	1000.000	1011.649	1367076.04	7.5690	A	8.8
8	☐			2257.98	0.0127	P	8.8

$$y = 0.0075 * x + 6.3435\text{E-}005$$

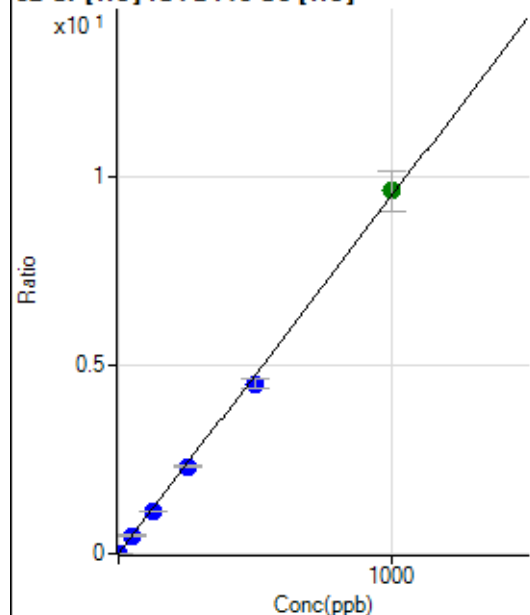
$$R = 0.9997$$

$$DL = 0.01922$$

$$BEC = 0.008479$$

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	441.12	0.0025	P	17.9
2	☐	2.000	1.921	3690.51	0.0207	P	2.7
3	☐	50.000	49.942	83341.33	0.4753	P	14.4
4	☐	125.000	119.486	205415.62	1.1336	P	1.7
5	☐	250.000	243.784	403015.96	2.3102	P	2.2
6	☐	500.000	475.387	826020.50	4.5027	P	4.8
7	☐	1000.000	1014.553	1732601.48	9.6066	A	11.1
8	☐			14636.50	0.0822	P	3.9

$$y = 0.0095 * x + 0.0025$$

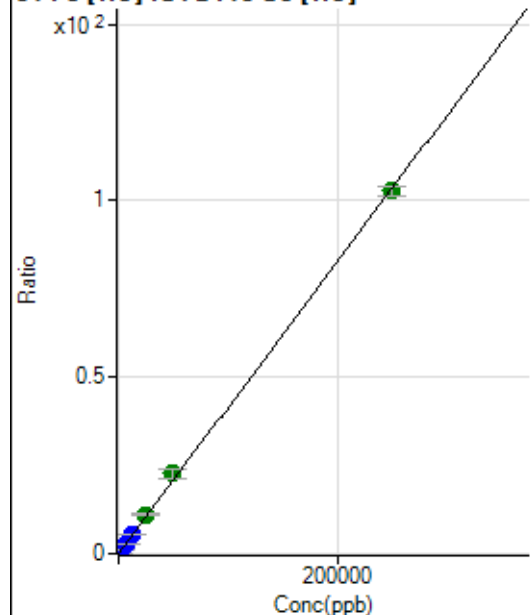
$$R = 0.9995$$

$$DL = 0.1426$$

$$BEC = 0.2652$$

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	577.80	0.0033	P	7.9
2	☐	50.000	52.164	4430.38	0.0248	P	3.1
3	☐	2500.000	2780.329	202200.95	1.1521	P	13.6
4	☐	6250.000	6614.690	495855.09	2.7365	P	0.7
5	☐	12500.000	13456.884	970624.18	5.5636	P	1.3
6	☐	25000.000	26805.161	2032311.13	11.0791	A	5.1
7	☐	50000.000	54966.005	4094865.95	22.7151	A	11.9
8	☐	250000.00	248766.51	18308019.16	102.7928	A	2.4

$$y = 4.1320E-004 * x + 0.0033$$

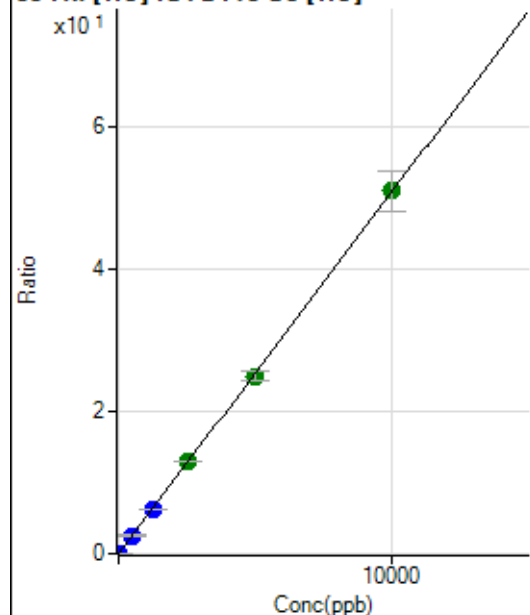
$$R = 0.9998$$

$$DL = 1.887$$

$$BEC = 7.957$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	52.22	0.0003	P	26.6
2	☐	1.000	0.973	934.49	0.0052	P	8.2
3	☐	500.000	501.206	446834.41	2.5463	P	13.7
4	☐	1250.000	1210.894	1114508.60	6.1513	P	1.0
5	☐	2500.000	2547.381	2257448.14	12.9403	A	0.4
6	☐	5000.000	4905.375	4570644.20	24.9183	A	5.1
7	☐	10000.000	10040.295	9196347.01	51.0022	A	11.2
8	☐			10277.45	0.0577	P	16.3

$$y = 0.0051 * x + 2.9761E-004$$

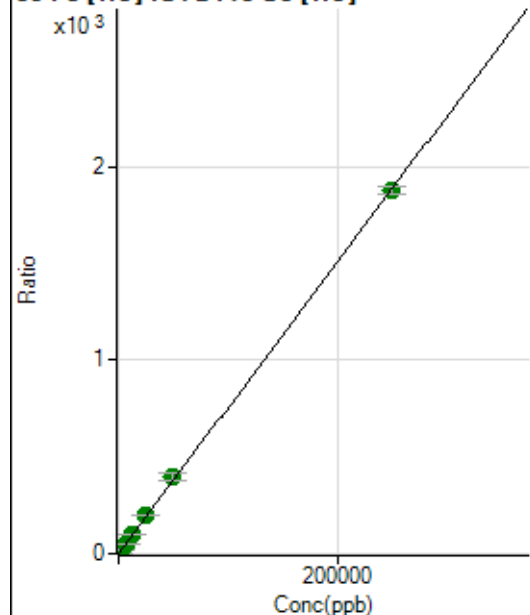
$$R = 0.9999$$

$$DL = 0.04671$$

$$BEC = 0.05859$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	3267.10	0.0186	P	3.5
2	☐	50.000	51.106	71849.01	0.4029	P	2.2
3	☐	2500.000	2789.190	3683253.32	20.9925	A	13.8
4	☐	6250.000	6557.336	8937821.73	49.3279	A	0.5
5	☐	12500.000	13522.304	17743153.64	101.7024	A	1.6
6	☐	25000.000	26431.813	36468682.76	198.7781	A	4.4
7	☐	50000.000	53228.973	72230392.82	400.2850	A	10.1
8	☐	250000.00	249149.33	333689737.0	1,873.549	A	2.1

$$y = 0.0075 * x + 0.0186$$

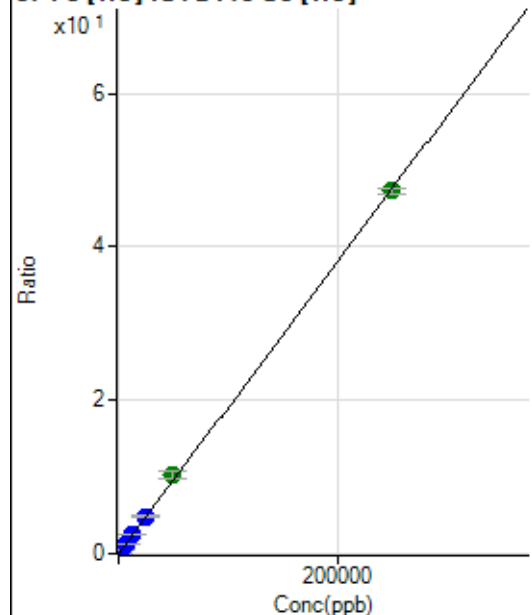
$$R = 0.9999$$

$$DL = 0.2624$$

$$BEC = 2.473$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	220.37	0.0013	P	14.4
2	☐	50.000	49.862	1911.27	0.0107	P	4.8
3	☐	2500.000	2634.640	88073.45	0.5014	P	12.6
4	☐	6250.000	6342.082	218397.50	1.2052	P	0.7
5	☐	12500.000	13182.984	436799.59	2.5039	P	1.5
6	☐	25000.000	25251.339	879756.47	4.7949	P	4.2
7	☐	50000.000	54361.937	1861719.40	10.3213	A	10.9
8	☐	250000.00	249064.68	8421526.69	47.2834	A	1.7

$$y = 1.8984\text{E-}004 * x + 0.0013$$

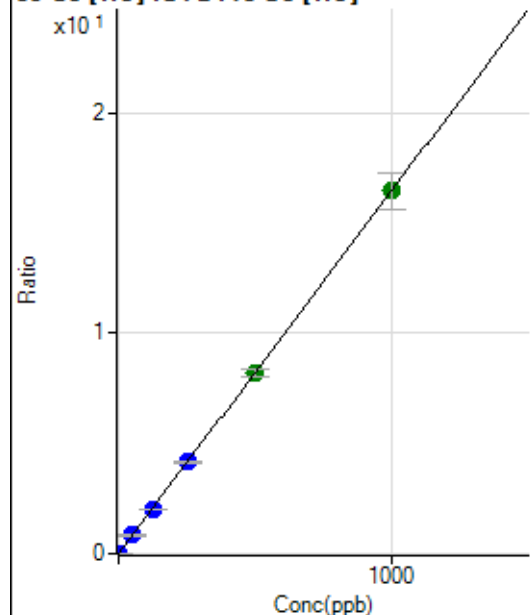
$$R = 0.9998$$

$$DL = 2.845$$

$$BEC = 6.603$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	113.34	0.0006	P	6.6
2	☐	1.000	1.023	3118.15	0.0175	P	1.6
3	☐	50.000	51.198	148025.97	0.8435	P	13.6
4	☐	125.000	122.741	366249.54	2.0212	P	0.6
5	☐	250.000	252.438	725000.11	4.1563	P	1.8
6	☐	500.000	499.169	1507609.02	8.2179	A	4.7
7	☐	1000.000	1000.029	2971499.43	16.4630	A	10.1
8	☐			2990.38	0.0168	P	17.7

$$y = 0.0165 * x + 6.4483\text{E-}004$$

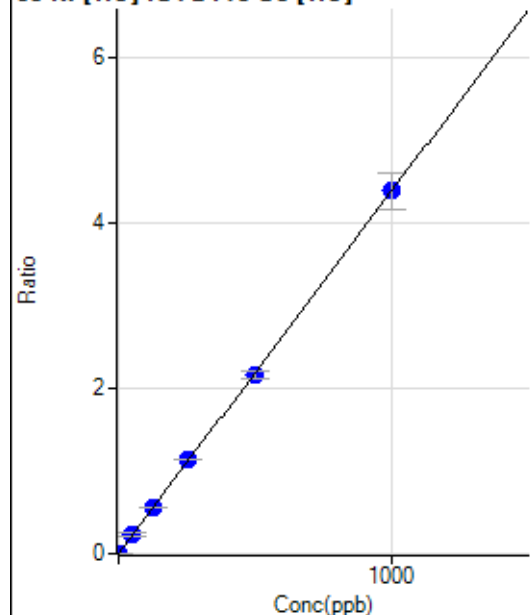
$$R = 1.0000$$

$$DL = 0.007772$$

$$BEC = 0.03917$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	35.56	0.0002	P	42.1
2	☐	1.000	1.068	871.15	0.0049	P	5.2
3	☐	50.000	53.040	40832.00	0.2328	P	14.3
4	☐	125.000	127.248	101161.52	0.5583	P	0.5
5	☐	250.000	259.465	198539.45	1.1381	P	1.6
6	☐	500.000	492.616	396478.85	2.1607	P	4.4
7	☐	1000.000	1000.892	792171.33	4.3898	P	10.0
8	☐			2334.66	0.0131	P	7.5

$$y = 0.0044 * x + 2.0179E-004$$

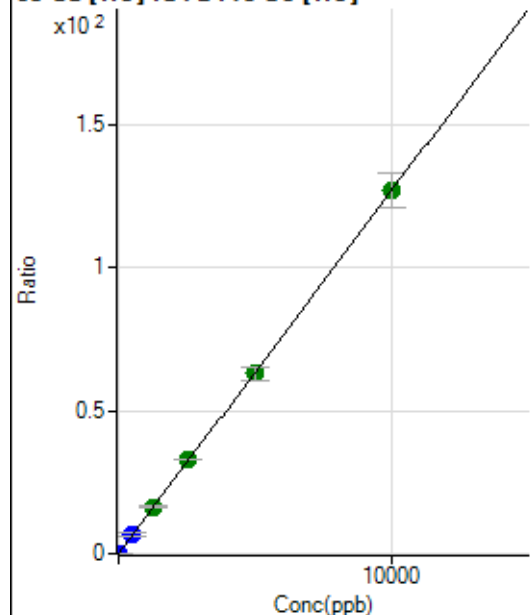
$$R = 0.9999$$

$$DL = 0.05809$$

$$BEC = 0.04601$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1230.07	0.0070	P	5.3
2	☐	2.000	2.025	5825.69	0.0327	P	3.9
3	☐	500.000	529.715	1179966.93	6.7200	P	13.0
4	☐	1250.000	1289.860	2962859.30	16.3533	A	1.9
5	☐	2500.000	2581.869	5708651.44	32.7268	A	0.6
6	☐	5000.000	4953.803	11509902.88	62.7860	A	6.7
7	☐	10000.000	9996.163	22869547.72	126.6873	A	9.4
8	☐			10540.14	0.0591	P	32.8

$$y = 0.0127 * x + 0.0070$$

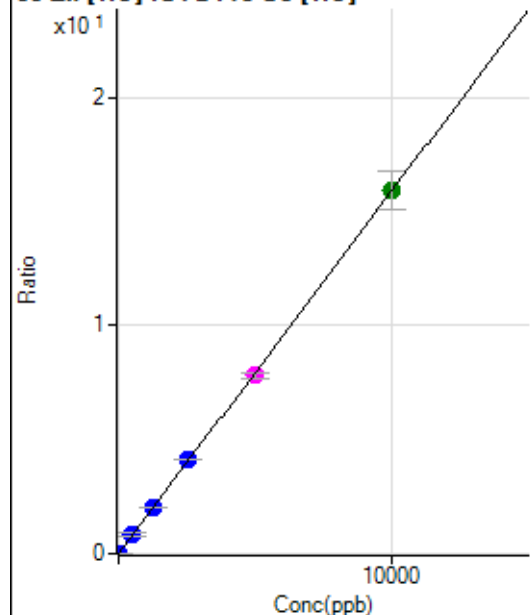
$$R = 0.9999$$

$$DL = 0.0874$$

$$BEC = 0.5527$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	128.89	0.0007	P	18.1
2	☐	2.000	2.651	882.26	0.0049	P	7.4
3	☐	500.000	543.107	151391.91	0.8638	P	15.0
4	☐	1250.000	1279.195	368485.38	2.0335	P	2.1
5	☐	2500.000	2593.625	719076.86	4.1222	P	1.4
6	☐	5000.000	4918.543	1434905.99	7.8168	M	3.4
7	☐	10000.000	10011.517	2870127.42	15.9100	A	10.5
8	☐			2897.01	0.0163	P	14.9

$$y = 0.0016 * x + 7.3463E-004$$

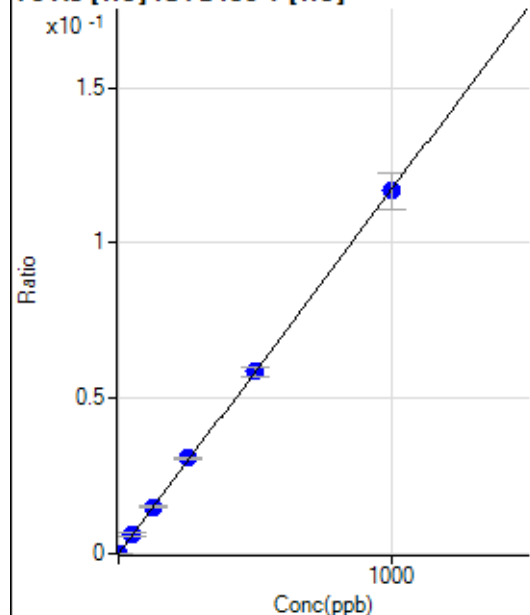
$$R = 0.9999$$

$$DL = 0.2515$$

$$BEC = 0.4623$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	4.33	0.0000	P	36.0
2	☐	1.000	1.087	181.02	0.0001	P	7.5
3	☐	50.000	51.774	8346.31	0.0061	P	20.0
4	☐	125.000	127.565	20835.10	0.0149	P	4.0
5	☐	250.000	261.774	40780.61	0.0307	P	0.9
6	☐	500.000	500.071	83212.84	0.0586	P	5.8
7	☐	1000.000	996.611	165708.73	0.1168	P	10.0
8	☐			180.35	0.0001	P	7.1

$$y = 1.1716E-004 * x + 3.1816E-006$$

$$R = 0.9999$$

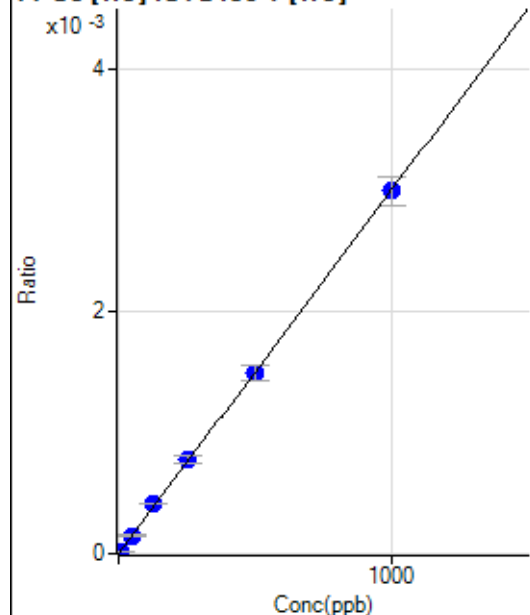
$$DL = 0.02934$$

$$BEC = 0.02716$$

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	6.154	25.55	0.0000	P	42.4
3	☐	50.000	49.209	204.45	0.0001	P	13.6
4	☐	125.000	137.966	576.68	0.0004	P	2.5
5	☐	250.000	259.172	1033.38	0.0008	P	8.4
6	☐	500.000	496.556	2112.41	0.0015	P	8.7
7	☐	1000.000	997.842	4256.25	0.0030	P	7.6
8	☐			10.00	0.0000	P	57.4

$$y = 2.9988\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9999$$

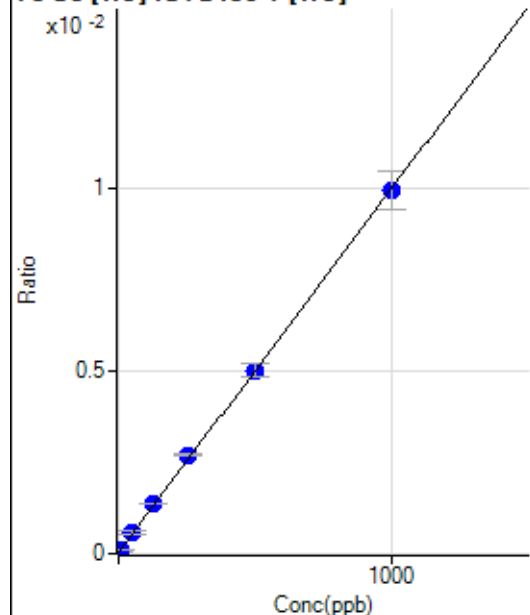
$$DL = 0$$

$$BEC = 0$$

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	50.67	0.0000	P	10.5
2	☐	5.000	5.064	121.34	0.0001	P	4.9
3	☐	50.000	54.783	796.44	0.0006	P	25.7
4	☐	125.000	132.096	1883.99	0.0014	P	1.0
5	☐	250.000	267.670	3590.49	0.0027	P	1.7
6	☐	500.000	500.909	7128.53	0.0050	P	6.8
7	☐	1000.000	994.002	14084.78	0.0099	P	10.5
8	☐			80.34	0.0001	P	10.8

$$y = 9.9508\text{E-}006 * x + 3.7090\text{E-}005$$

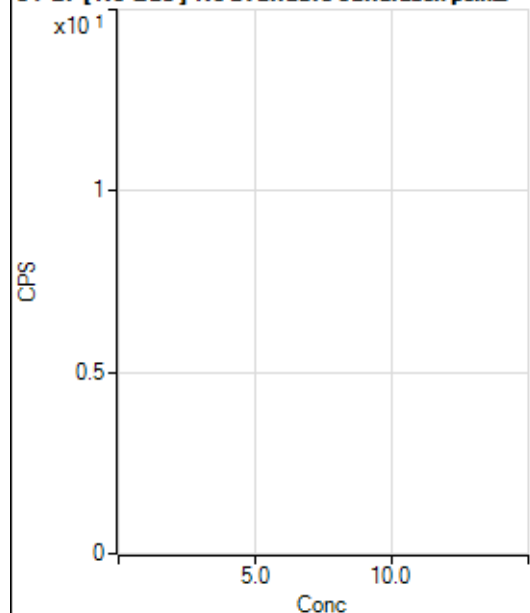
$$R = 0.9998$$

$$DL = 1.173$$

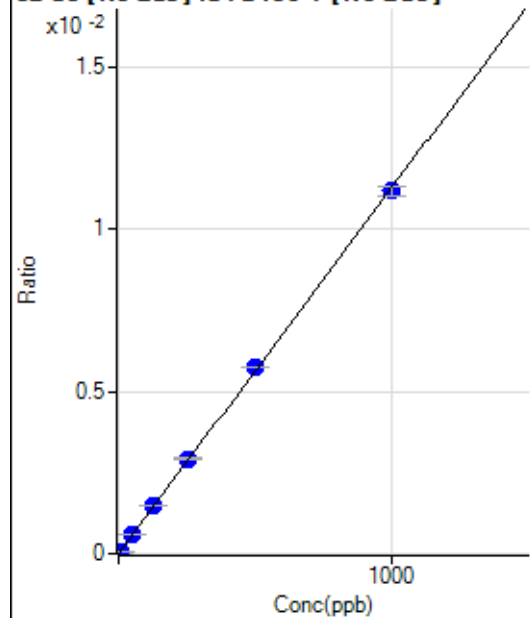
$$BEC = 3.727$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			54195.16		P	3.1
2	☐			55443.37		P	3.3
3	☐			56037.32		P	2.3
4	☐			53202.95		P	3.3
5	☐			52101.19		P	1.8
6	☐			51136.73		P	2.7
7	☐			52044.54		P	2.2
8	☐			52811.16		P	1.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	30.83	0.0000	P	82.0
2	☐	5.000	5.625	850.78	0.0001	P	3.8
3	☐	50.000	53.543	8013.57	0.0006	P	2.7
4	☐	125.000	131.324	19836.94	0.0015	P	2.6
5	☐	250.000	257.986	39039.96	0.0029	P	1.9
6	☐	500.000	509.663	76416.37	0.0057	P	0.7
7	☐	1000.000	992.201	150100.71	0.0112	P	2.7
8	☐			438.72	0.0000	P	18.0

$$y = 1.1256E-005 * x + 2.3344E-006$$

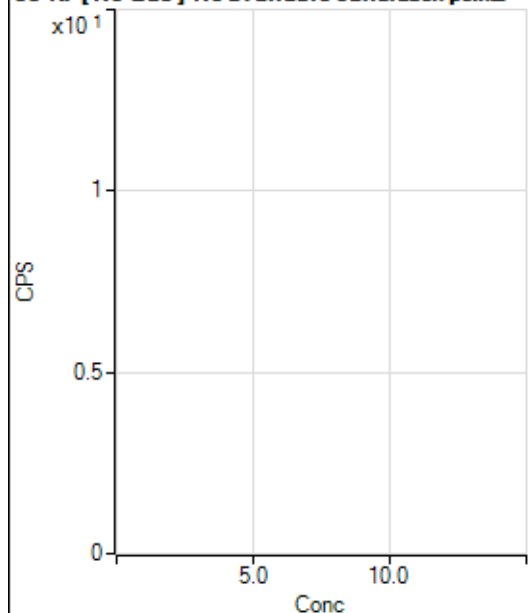
$$R = 0.9999$$

$$DL = 0.5105$$

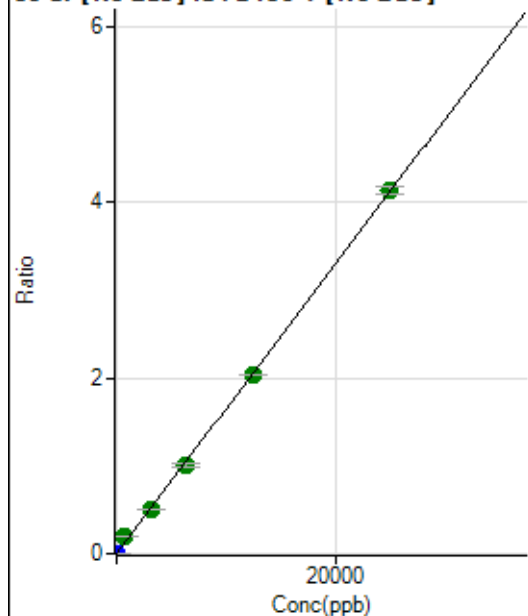
$$BEC = 0.2074$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			318.71		P	3.4
2	☐			314.13		P	13.9
3	☐			335.38		P	8.9
4	☐			324.13		P	5.3
5	☐			312.05		P	6.5
6	☐			315.80		P	8.3
7	☐			331.21		P	2.6
8	☐			374.96		P	4.8

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	544.47	0.0000	P	20.7
2	☐	1.000	0.995	2658.65	0.0002	P	9.8
3	☐	625.000	1239.274	2705998.41	0.2043	A	0.7
4	☐	3125.000	3055.418	6748282.92	0.5035	A	1.7
5	☐	6250.000	6115.657	13539048.04	1.0078	A	2.3
6	☐	12500.000	12373.948	27151283.94	2.0391	A	0.5
7	☐	25000.000	25089.952	55561043.60	4.1345	A	2.3
8	☐			27029.28	0.0023	P	41.8

$$y = 1.6479E-004 * x + 4.1197E-005$$

$$R = 0.9996$$

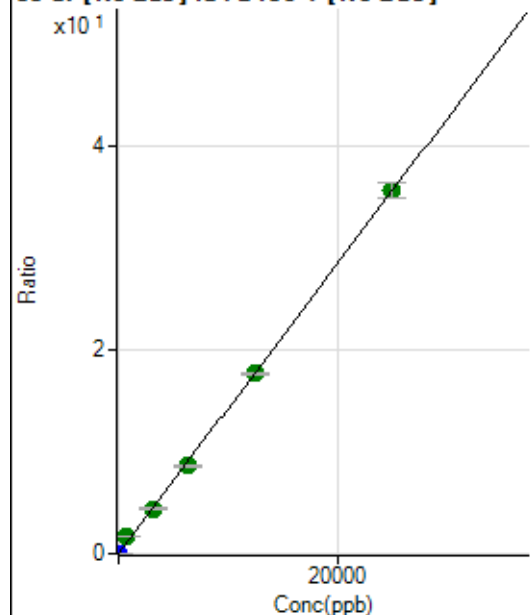
$$DL = 0.1554$$

$$BEC = 0.25$$

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	152.78	0.0000	P	36.7
2	☐	1.000	0.981	18198.45	0.0014	P	3.7
3	☐	625.000	1240.911	23335447.57	1.7616	A	1.8
4	☐	3125.000	3118.853	59329834.66	4.4276	A	1.9
5	☐	6250.000	6068.864	115737863.7	8.6154	A	1.1
6	☐	12500.000	12444.037	235216824.7	17.6657	A	0.6
7	☐	25000.000	25058.636	477902894.0	35.5735	A	4.1
8	☐			227637.43	0.0191	P	43.7

$$y = 0.0014 * x + 1.1573E-005$$

$$R = 0.9996$$

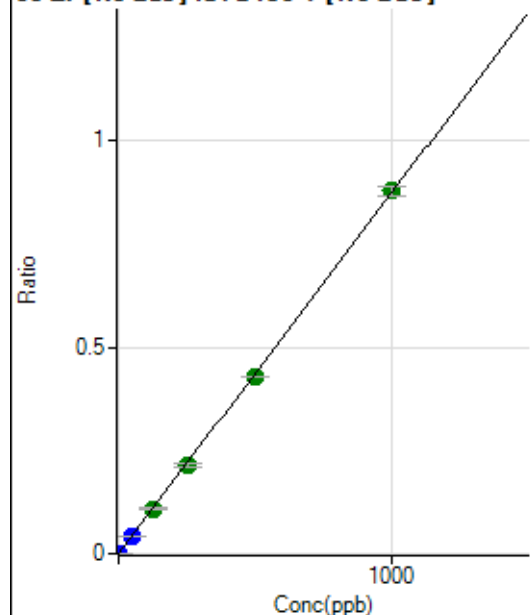
$$DL = 0.008984$$

$$BEC = 0.008152$$

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	497.24	0.0000	P	11.9
2	☐	1.000	0.964	11388.26	0.0009	P	5.2
3	☐	50.000	50.174	581021.04	0.0439	P	0.9
4	☐	125.000	124.252	1454661.73	0.1086	A	1.9
5	☐	250.000	244.816	2872889.06	0.2139	A	3.2
6	☐	500.000	490.441	5704109.85	0.4284	A	1.0
7	☐	1000.000	1006.160	11808395.75	0.8788	A	2.7
8	☐			5640.90	0.0005	P	45.9

$$y = 8.7337E-004 * x + 3.7658E-005$$

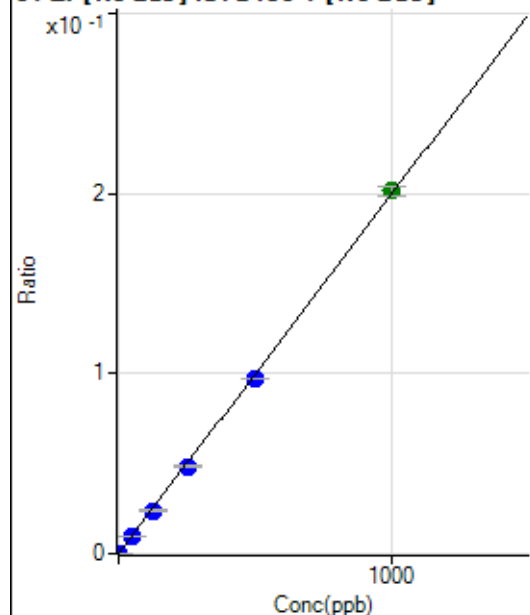
$$R = 0.9999$$

$$DL = 0.0154$$

$$BEC = 0.04312$$

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	108.33	0.0000	P	12.5
2	☐	1.000	0.974	2625.32	0.0002	P	7.6
3	☐	50.000	49.785	131721.00	0.0099	P	3.0
4	☐	125.000	119.528	319801.95	0.0239	P	1.8
5	☐	250.000	243.374	652660.28	0.0486	P	1.1
6	☐	500.000	485.826	1291331.38	0.0970	P	0.5
7	☐	1000.000	1009.438	2707553.42	0.2015	A	2.7
8	☐			1258.47	0.0001	P	47.1

$$y = 1.9959\text{E-}004 * x + 8.1936\text{E-}006$$

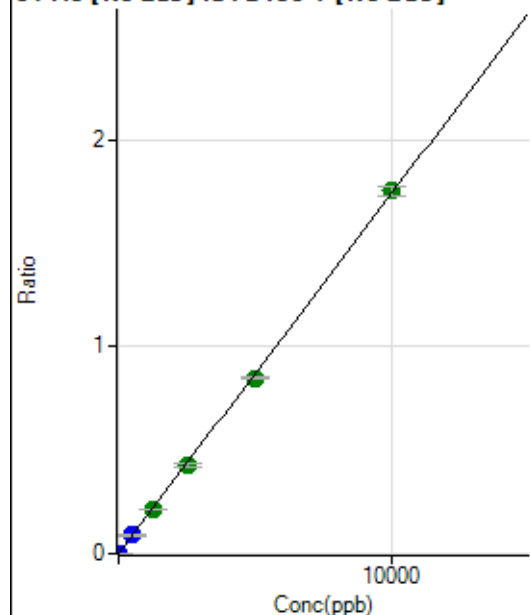
$$R = 0.9998$$

$$DL = 0.01535$$

$$BEC = 0.04105$$

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	183.34	0.0000	P	3.8
2	☐	5.000	5.830	13326.20	0.0010	P	2.7
3	☐	500.000	509.588	1174829.70	0.0887	P	2.5
4	☐	1250.000	1227.227	2862337.59	0.2136	A	1.1
5	☐	2500.000	2460.357	5751916.06	0.4282	A	3.3
6	☐	5000.000	4875.824	11298702.25	0.8485	A	0.7
7	☐	10000.000	10074.366	23557622.05	1.7532	A	2.8
8	☐			13745.74	0.0012	P	34.4

$$y = 1.7402\text{E-}004 * x + 1.3874\text{E-}005$$

$$R = 0.9999$$

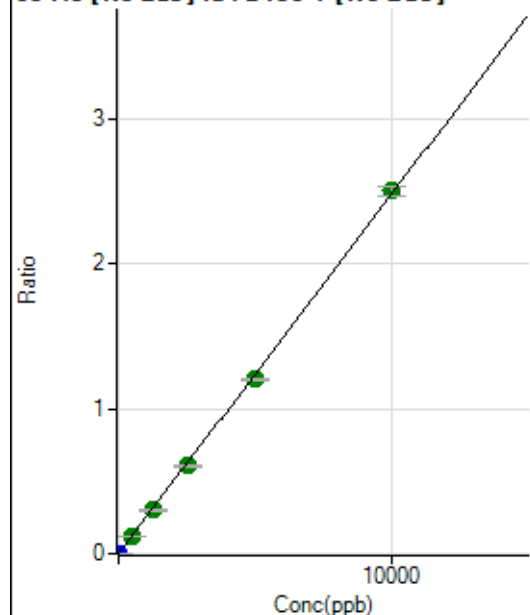
$$DL = 0.009202$$

$$BEC = 0.07972$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	55.56	0.0000	P	37.8
2	☐	5.000	5.034	16212.65	0.0013	P	7.1
3	☐	500.000	492.477	1617394.76	0.1221	A	0.9
4	☐	1250.000	1209.058	4015154.60	0.2997	A	3.9
5	☐	2500.000	2437.451	8117145.23	0.6042	A	2.9
6	☐	5000.000	4849.095	16006851.92	1.2021	A	0.7
7	☐	10000.000	10096.584	33631192.77	2.5029	A	3.0
8	☐			19141.44	0.0016	P	34.1

$$y = 2.4790E-004 * x + 4.2038E-006$$

$$R = 0.9998$$

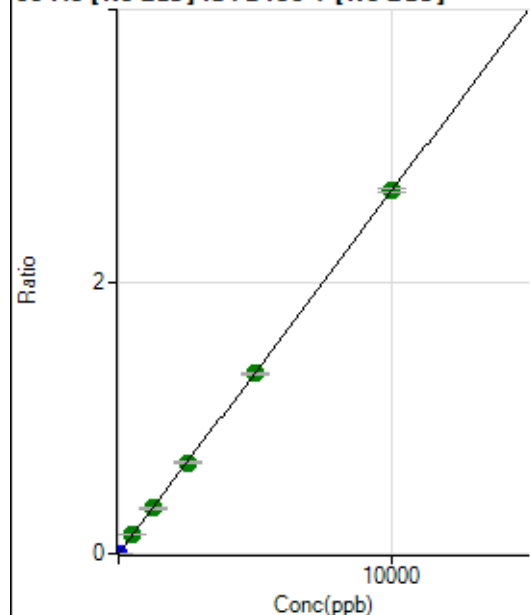
$$DL = 0.01925$$

$$BEC = 0.01696$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	233.35	0.0000	P	19.4
2	☐	5.000	5.312	18568.45	0.0014	P	4.7
3	☐	500.000	516.039	1821900.76	0.1376	A	3.3
4	☐	1250.000	1248.106	4457665.94	0.3327	A	2.2
5	☐	2500.000	2497.310	8941878.58	0.6656	A	1.9
6	☐	5000.000	4980.716	17677792.76	1.3275	A	0.9
7	☐	10000.000	10009.749	35858959.83	2.6679	A	1.2
8	☐			33766.87	0.0029	P	21.9

$$y = 2.6653E-004 * x + 1.7673E-005$$

$$R = 1.0000$$

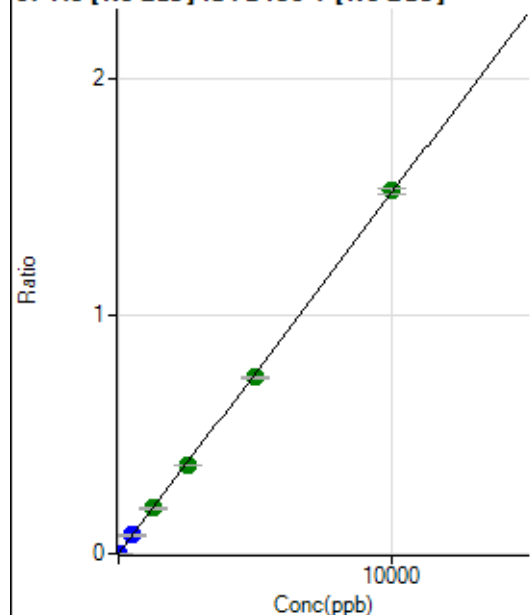
$$DL = 0.03863$$

$$BEC = 0.06631$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	63.89	0.0000	P	32.9
2	☐	5.000	5.290	10454.18	0.0008	P	4.8
3	☐	500.000	512.469	1029355.32	0.0777	P	2.6
4	☐	1250.000	1253.872	2547874.64	0.1901	A	2.8
5	☐	2500.000	2458.036	5006992.08	0.3727	A	0.8
6	☐	5000.000	4888.005	9870359.16	0.7412	A	1.5
7	☐	10000.000	10065.381	20513945.43	1.5263	A	1.4
8	☐			11865.96	0.0010	P	36.8

$$y = 1.5164\text{E-}004 * x + 4.8348\text{E-}006$$

$$R = 0.9999$$

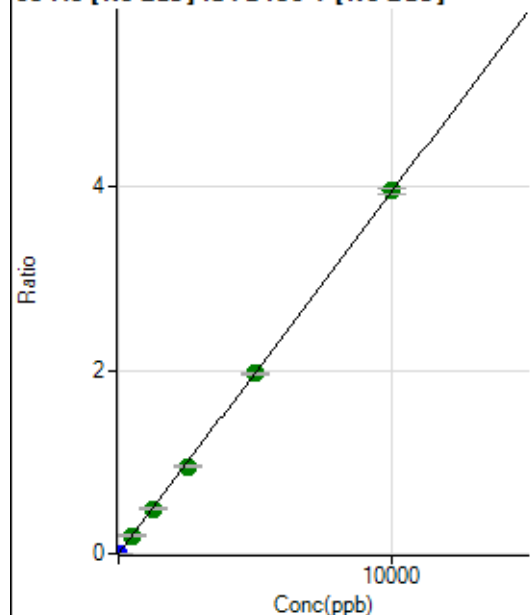
$$DL = 0.03145$$

$$BEC = 0.03188$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	130.56	0.0000	P	35.3
2	☐	5.000	5.101	26200.46	0.0020	P	3.4
3	☐	500.000	499.808	2611921.35	0.1972	A	3.0
4	☐	1250.000	1236.900	6536929.05	0.4880	A	4.5
5	☐	2500.000	2416.382	12806501.94	0.9533	A	1.1
6	☐	5000.000	4977.967	26149751.97	1.9640	A	1.5
7	☐	10000.000	10033.568	53202033.13	3.9585	A	1.6
8	☐			29899.54	0.0025	P	36.2

$$y = 3.9453\text{E-}004 * x + 9.8807\text{E-}006$$

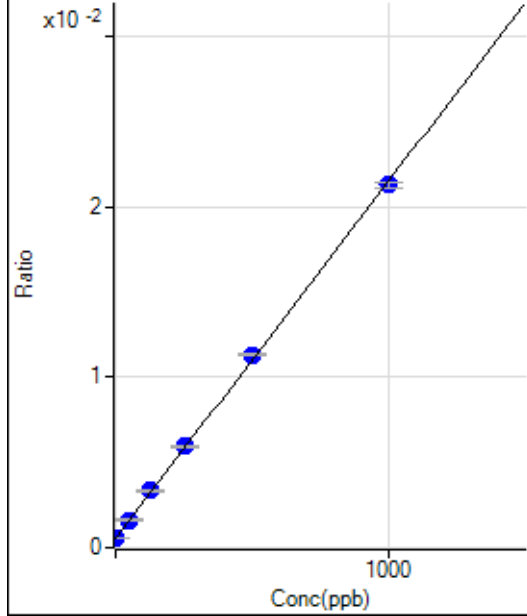
$$R = 1.0000$$

$$DL = 0.0265$$

$$BEC = 0.02504$$

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	4989.95	0.0006	P	4.9
2	☐	1.000	2.644	5320.65	0.0006	P	3.2
3	☐	50.000	51.412	15214.30	0.0016	P	1.4
4	☐	125.000	132.729	30094.68	0.0033	P	2.3
5	☐	250.000	256.983	54941.23	0.0059	P	0.9
6	☐	500.000	514.917	104224.48	0.0113	P	0.8
7	☐	1000.000	989.757	201145.19	0.0213	P	1.3
8	☐			4498.12	0.0005	P	2.9

$$y = 2.0968\text{E-}005 * x + 5.5091\text{E-}004$$

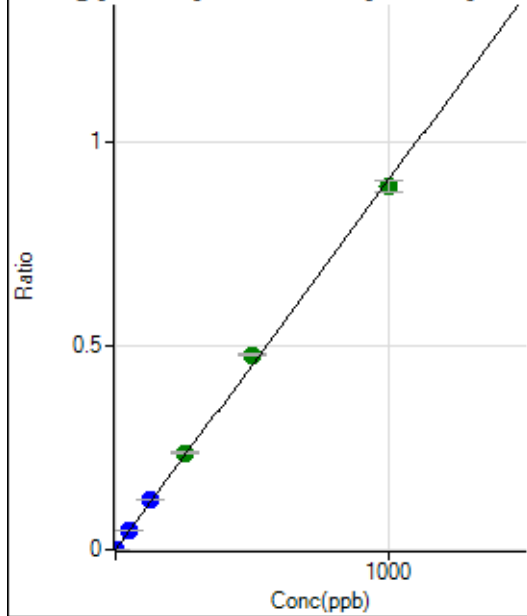
$$R = 0.9998$$

$$DL = 3.897$$

$$BEC = 26.27$$

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	336.13	0.0000	P	18.2
2	☐	1.000	1.081	8933.65	0.0010	P	3.1
3	☐	50.000	52.911	448692.49	0.0481	P	2.5
4	☐	125.000	136.860	1121457.28	0.1242	P	1.4
5	☐	250.000	262.680	2205236.01	0.2384	A	1.3
6	☐	500.000	526.608	4389795.32	0.4779	A	0.7
7	☐	1000.000	981.898	8410437.60	0.8911	A	3.1
8	☐			12108.54	0.0015	P	11.5

$$y = 9.0745\text{E-}004 * x + 3.7074\text{E-}005$$

$$R = 0.9993$$

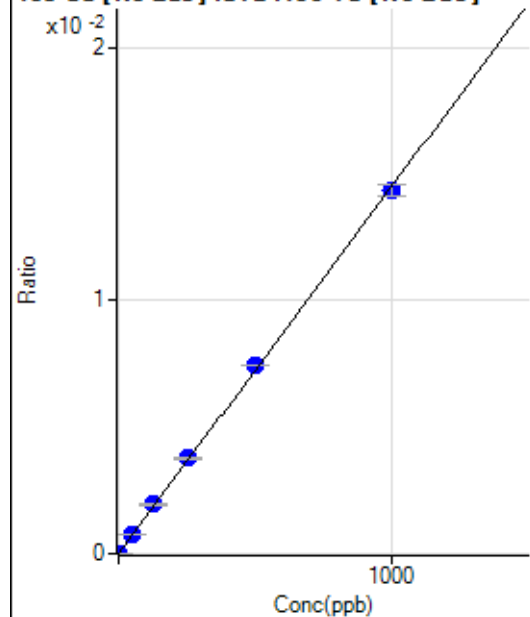
$$DL = 0.02226$$

$$BEC = 0.04085$$

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	25.00	0.0000	P	43.2
2	☐	1.000	1.220	179.17	0.0000	P	6.5
3	☐	50.000	52.746	7160.29	0.0008	P	1.0
4	☐	125.000	135.204	17697.61	0.0020	P	2.6
5	☐	250.000	260.009	34858.00	0.0038	P	1.0
6	☐	500.000	514.490	68456.75	0.0075	P	0.4
7	☐	1000.000	988.840	135188.31	0.0143	P	3.1
8	☐			143.06	0.0000	P	18.4

$$y = 1.4481\text{E-}005 * x + 2.7551\text{E-}006$$

$$R = 0.9998$$

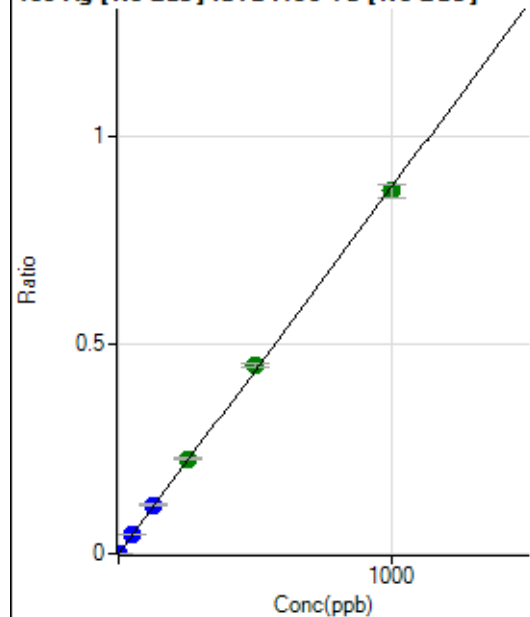
$$DL = 0.2463$$

$$BEC = 0.1903$$

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	252.79	0.0000	P	4.6
2	☐	1.000	1.075	8513.97	0.0010	P	1.7
3	☐	50.000	52.670	431181.63	0.0462	P	4.4
4	☐	125.000	133.019	1052671.28	0.1166	P	1.7
5	☐	250.000	257.948	2091413.14	0.2261	A	1.8
6	☐	500.000	513.686	4135076.31	0.4503	A	1.6
7	☐	1000.000	990.034	8189968.24	0.8678	A	3.4
8	☐			11066.00	0.0014	P	16.4

$$y = 8.7646\text{E-}004 * x + 2.7915\text{E-}005$$

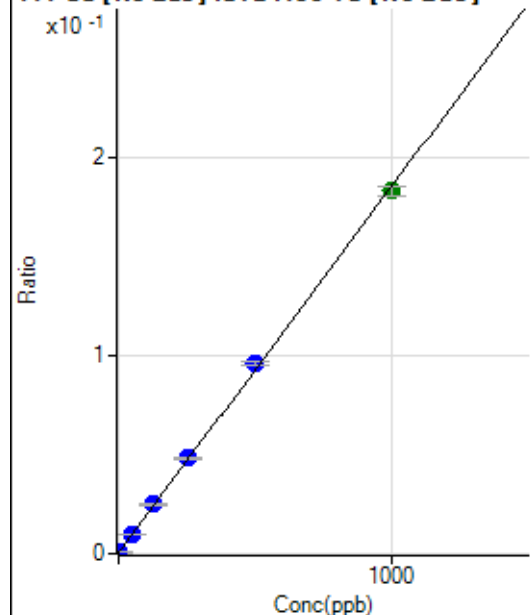
$$R = 0.9998$$

$$DL = 0.004391$$

$$BEC = 0.03185$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	3506.02	0.0004	P	4.7
2	☐	1.000	1.260	5442.25	0.0006	P	2.0
3	☐	50.000	51.833	93138.96	0.0100	P	3.3
4	☐	125.000	132.802	225245.20	0.0250	P	2.1
5	☐	250.000	258.237	445458.29	0.0482	P	1.0
6	☐	500.000	517.055	881956.92	0.0960	P	1.5
7	☐	1000.000	988.346	1729617.43	0.1832	A	2.5
8	☐			3877.76	0.0005	P	5.4

$$y = 1.8498\text{E-}004 * x + 3.8708\text{E-}004$$

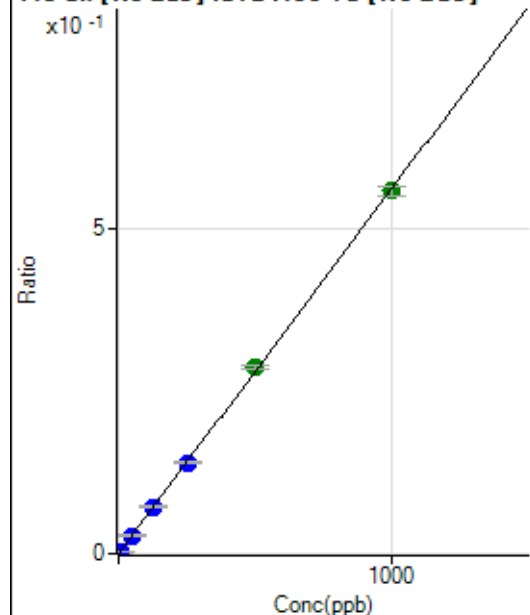
$$R = 0.9997$$

$$DL = 0.2959$$

$$BEC = 2.093$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	577.81	0.0001	P	7.0
2	☐	5.000	5.193	26134.03	0.0030	P	2.5
3	☐	50.000	49.339	259189.75	0.0278	P	3.0
4	☐	125.000	128.599	652185.40	0.0723	P	2.0
5	☐	250.000	249.313	1295108.99	0.1400	P	1.2
6	☐	500.000	509.551	2627711.28	0.2861	A	2.1
7	☐	1000.000	994.978	5272795.91	0.5586	A	2.6
8	☐			8958.90	0.0011	P	19.2

$$y = 5.6133\text{E-}004 * x + 6.3847\text{E-}005$$

$$R = 0.9999$$

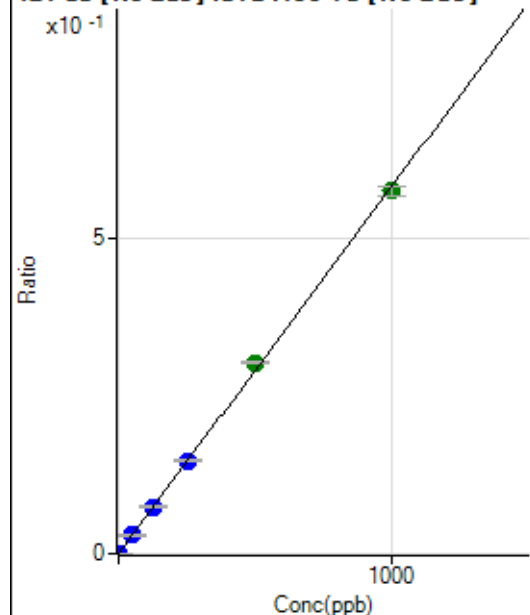
$$DL = 0.02377$$

$$BEC = 0.1137$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	127.78	0.0000	P	30.1
2	☐	2.000	2.030	10476.53	0.0012	P	2.9
3	☐	50.000	50.347	273417.57	0.0293	P	3.6
4	☐	125.000	128.058	672163.91	0.0745	P	2.4
5	☐	250.000	253.114	1361470.54	0.1472	P	0.9
6	☐	500.000	520.181	2777770.38	0.3024	A	0.8
7	☐	1000.000	988.731	5426622.26	0.5749	A	2.6
8	☐			27075.00	0.0033	P	13.4

$$y = 5.8140\text{E-}004 * x + 1.4085\text{E-}005$$

$$R = 0.9997$$

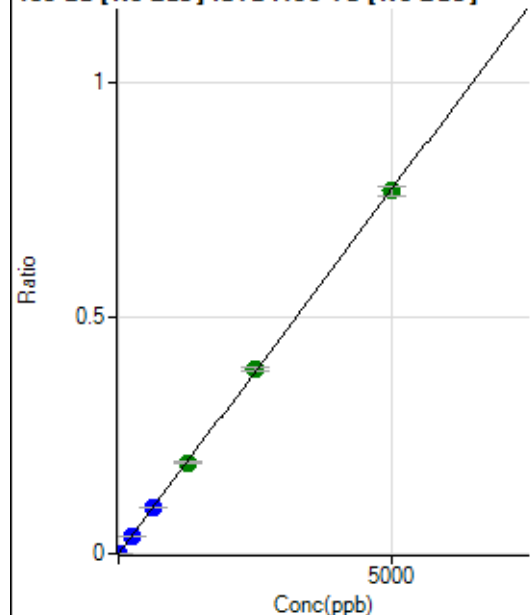
$$DL = 0.02187$$

$$BEC = 0.02423$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	69.45	0.0000	P	48.3
2	☐	10.000	9.955	13557.21	0.0015	P	5.1
3	☐	250.000	246.144	355087.02	0.0380	P	2.1
4	☐	625.000	626.943	874191.04	0.0968	P	1.7
5	☐	1250.000	1247.624	1782847.78	0.1927	A	1.9
6	☐	2500.000	2536.651	3598019.66	0.3918	A	2.0
7	☐	5000.000	4982.219	7264471.08	0.7695	A	2.8
8	☐			9492.63	0.0012	P	18.1

$$y = 1.5445\text{E-}004 * x + 7.6655\text{E-}006$$

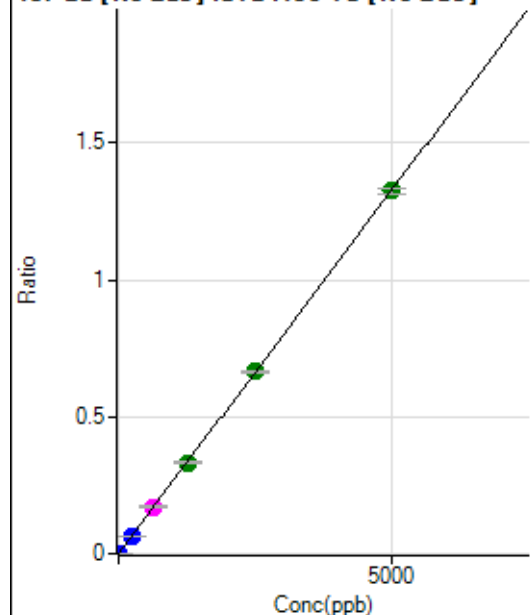
$$R = 1.0000$$

$$DL = 0.0719$$

$$BEC = 0.04963$$

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	100.00	0.0000	P	71.1
2	☐	10.000	10.032	23429.21	0.0027	P	1.5
3	☐	250.000	246.656	610730.46	0.0654	P	1.8
4	☐	625.000	639.322	1529977.15	0.1695	M	3.5
5	☐	1250.000	1247.658	3059350.46	0.3307	A	2.4
6	☐	2500.000	2507.720	6105429.18	0.6648	A	1.3
7	☐	5000.000	4995.102	12502463.91	1.3241	A	1.3
8	☐			17240.02	0.0021	P	17.3

$$y = 2.6509E-004 * x + 1.1011E-005$$

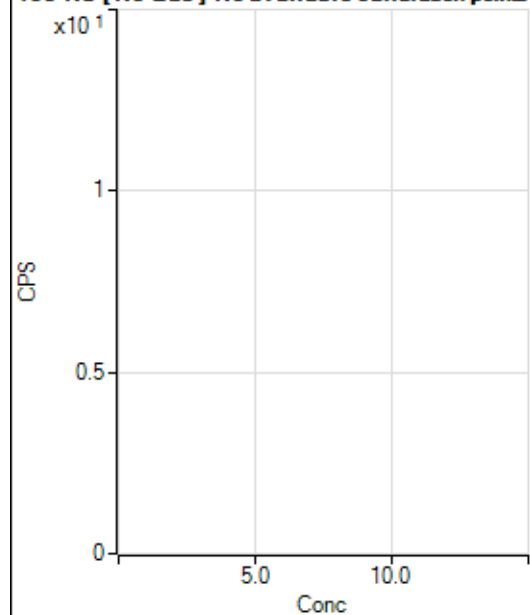
$$R = 1.0000$$

$$DL = 0.08857$$

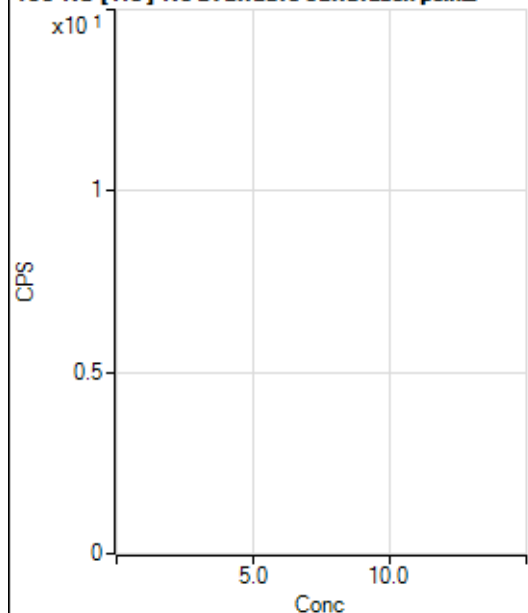
$$BEC = 0.04154$$

Weight: <None>

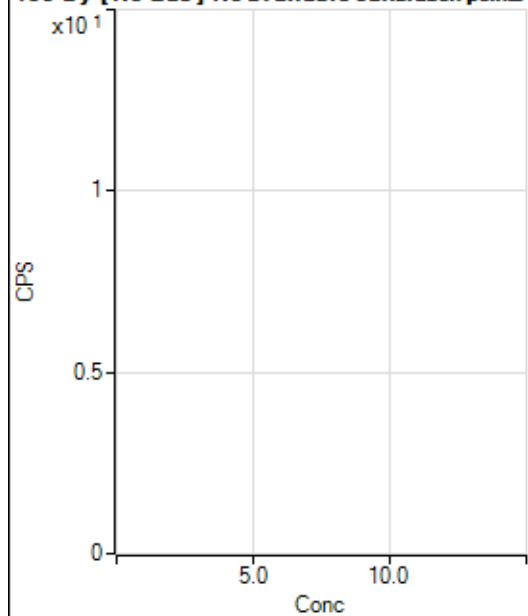
Min Conc: 0

150 Nd [No Gas] No available calibration points

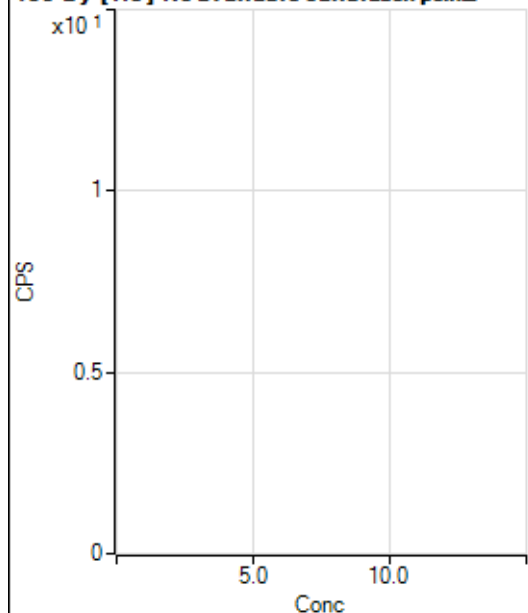
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			15.56		P	65.5
2	☐			4.45		P	86.6
3	☐			44.45		P	8.7
4	☐			122.23		P	6.3
5	☐			173.34		P	21.4
6	☐			388.90		P	7.9
7	☐			791.15		P	3.0
8	☐			40.00		P	44.1

150 Nd [He] No available calibration points

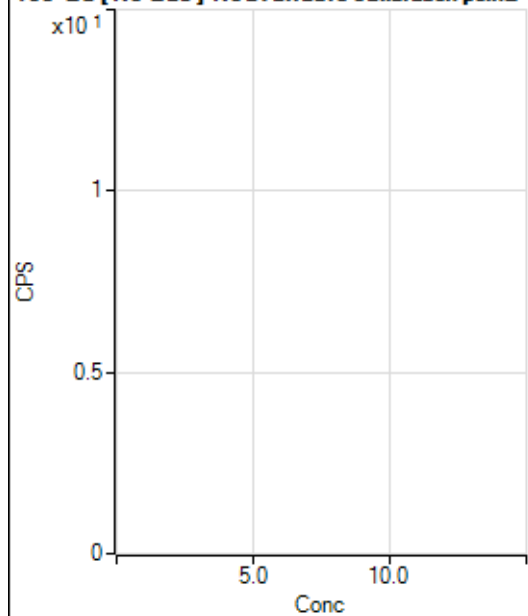
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	86.6
2	☐			4.45		P	86.6
3	☐			3.33		P	0.0
4	☐			8.89		P	78.1
5	☐			21.11		P	18.2
6	☐			20.00		P	0.0
7	☐			42.22		P	24.1
8	☐			10.00		P	57.7

156 Dy [No Gas] No available calibration points

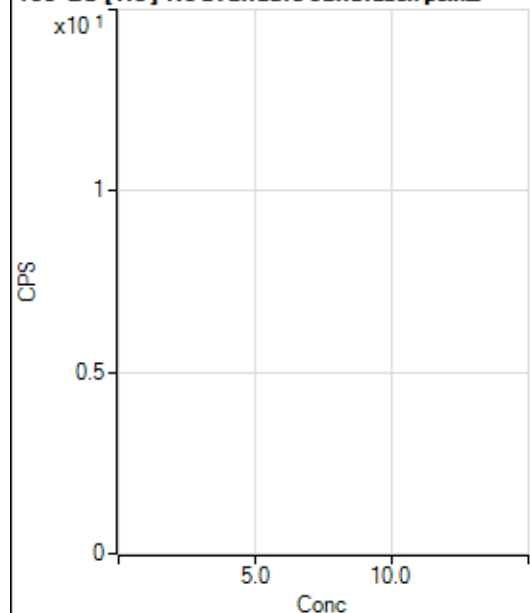
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			11.11		P	86.6
2	☐			16.67		P	100.
3	☐			27.78		P	96.4
4	☐			58.33		P	24.7
5	☐			102.78		P	9.4
6	☐			205.56		P	6.2
7	☐			363.90		P	10.6
8	☐			1172.31		P	2.9

156 Dy [He] No available calibration points

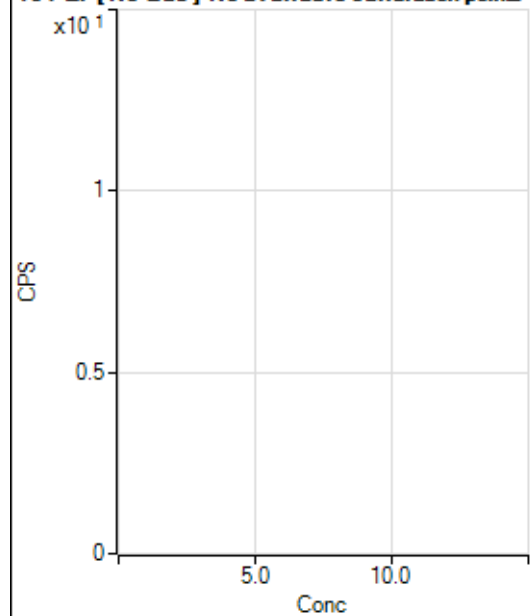
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.
2	☐			4.44		P	114.
3	☐			5.55		P	69.3
4	☐			15.55		P	101.
5	☐			46.67		P	25.8
6	☐			96.67		P	9.1
7	☐			182.23		P	14.8
8	☐			507.79		P	3.8

160 Gd [No Gas] Noavailable calibration poin_

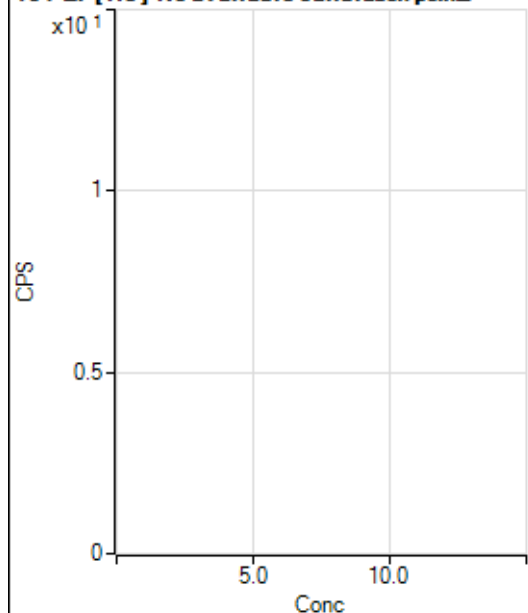
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			66.67		P	33.1
2	☐			72.22		P	24.0
3	☐			58.33		P	62.3
4	☐			88.89		P	27.1
5	☐			105.56		P	18.2
6	☐			197.23		P	16.0
7	☐			322.24		P	10.5
8	☐			1325.10		P	4.4

160 Gd [He] No available calibration points

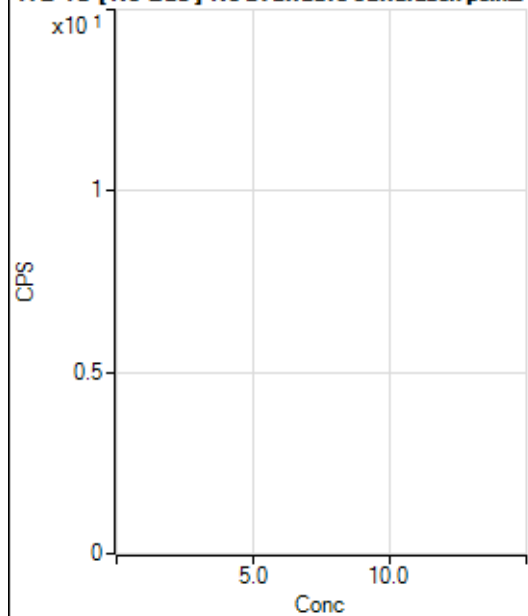
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			116.67		P	13.1
2	☐			120.00		P	18.2
3	☐			150.00		P	15.6
4	☐			134.45		P	12.2
5	☐			158.89		P	16.0
6	☐			202.23		P	2.5
7	☐			258.90		P	9.7
8	☐			698.92		P	4.0

164 Er [No Gas] No available calibration points

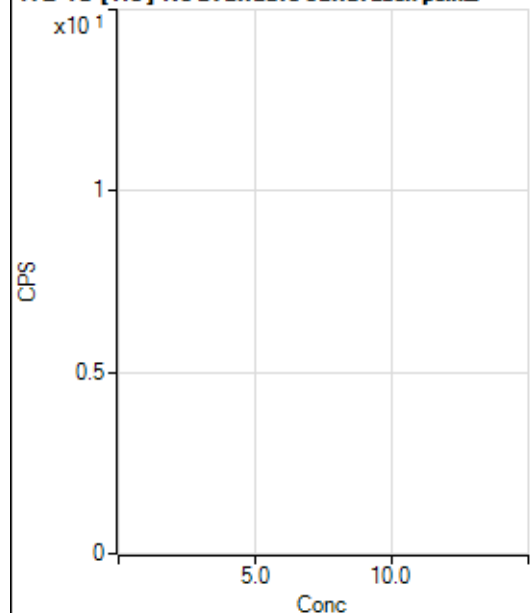
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			52.78		P	9.1
2	☐			63.89		P	30.1
3	☐			38.89		P	61.9
4	☐			50.00		P	44.1
5	☐			66.67		P	21.7
6	☐			102.78		P	44.7
7	☐			105.56		P	32.9
8	☐			88.89		P	23.6

164 Er [He] No available calibration points

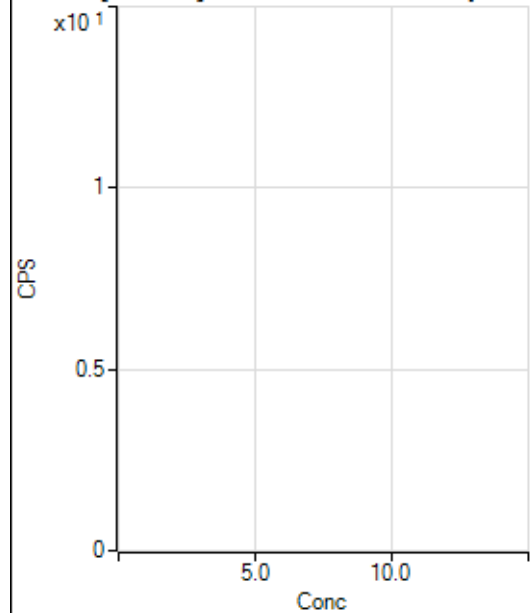
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			16.67		P	20.0
2	☐			26.67		P	21.7
3	☐			32.22		P	26.0
4	☐			25.55		P	27.1
5	☐			21.11		P	9.1
6	☐			27.78		P	18.3
7	☐			34.45		P	31.1
8	☐			38.89		P	30.1

172 Yb [No Gas] No available calibration points

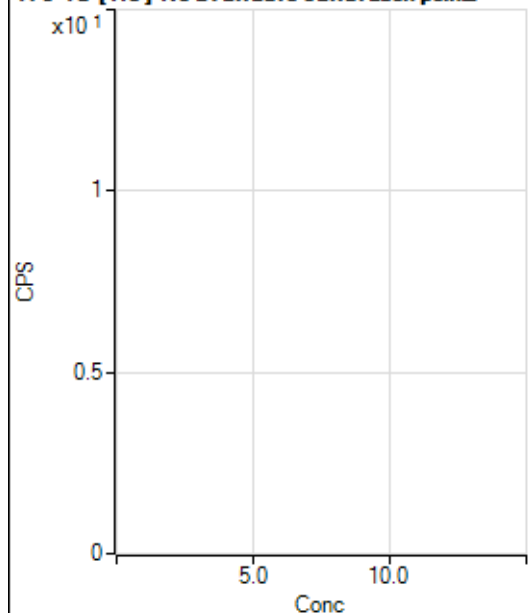
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			63.89		P	27.2
2	☐			63.89		P	74.2
3	☐			47.22		P	36.7
4	☐			91.67		P	24.1
5	☐			63.89		P	41.9
6	☐			136.12		P	28.3
7	☐			141.67		P	11.8
8	☐			508.36		P	8.5

172 Yb [He] No available calibration points

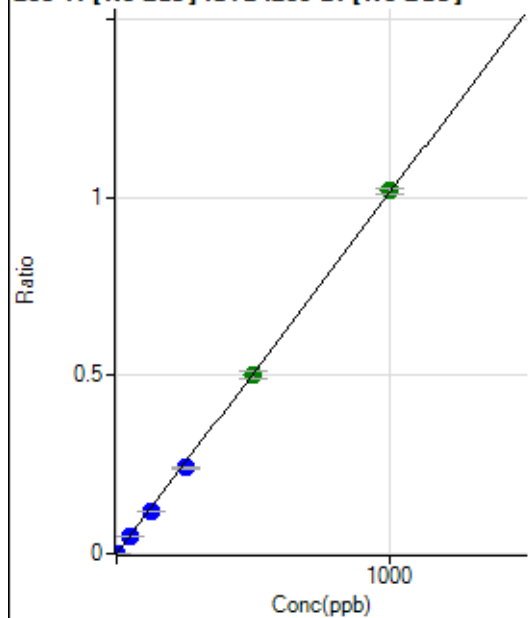
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			16.67		P	NaN
2	☐			29.63		P	28.6
3	☐			20.37		P	56.8
4	☐			18.52		P	62.4
5	☐			40.74		P	20.8
6	☐			46.30		P	27.7
7	☐			88.89		P	18.8
8	☐			246.30		P	19.7

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1569.59		P	5.2
2	☐			1683.49		P	3.0
3	☐			2736.49		P	7.5
4	☐			4206.34		P	1.8
5	☐			6854.75		P	0.7
6	☐			13059.62		P	0.7
7	☐			25068.88		P	2.1
8	☐			1700.17		P	19.4

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			9874.23		P	2.6
2	☐			10183.74		P	3.2
3	☐			10372.87		P	11.8
4	☐			11558.98		P	2.0
5	☐			12595.08		P	1.9
6	☐			15921.04		P	1.5
7	☐			20154.63		P	4.4
8	☐			10661.92		P	3.8

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	169.45	0.0000	P	23.3
2	☐	1.000	0.900	4984.40	0.0009	P	5.0
3	☐	50.000	47.560	260036.80	0.0481	P	1.8
4	☐	125.000	117.665	639760.68	0.1190	P	2.8
5	☐	250.000	237.483	1292872.35	0.2401	P	1.6
6	☐	500.000	495.978	2689660.74	0.5014	A	4.6
7	☐	1000.000	1006.179	5386659.49	1.0171	A	1.9
8	☐			3536.84	0.0008	P	29.0

$$y = 0.0010 * x + 3.1690E-005$$

$$R = 0.9999$$

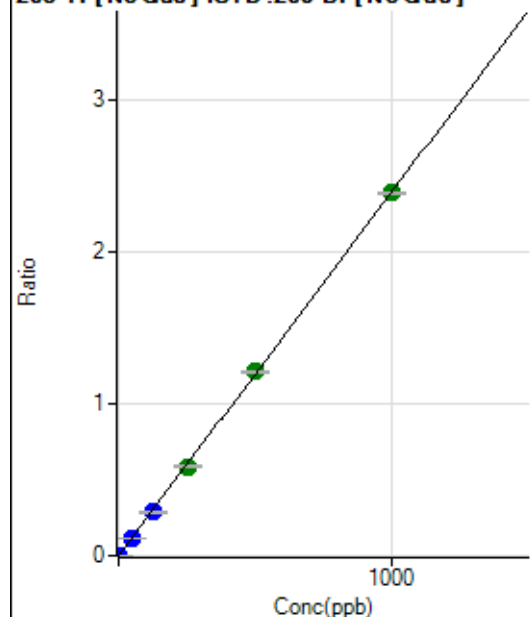
$$DL = 0.02188$$

$$BEC = 0.03135$$

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	411.13	0.0001	P	11.2
2	☐	1.000	0.944	12381.22	0.0023	P	6.2
3	☐	50.000	48.266	625455.72	0.1157	P	1.4
4	☐	125.000	120.117	1548009.26	0.2878	P	2.0
5	☐	250.000	244.189	3150443.73	0.5851	A	2.1
6	☐	500.000	507.242	6523369.63	1.2153	A	0.8
7	☐	1000.000	998.529	12670428.41	2.3922	A	0.7
8	☐			8222.94	0.0020	P	29.4

$$y = 0.0024 * x + 7.6657E-005$$

$$R = 0.9999$$

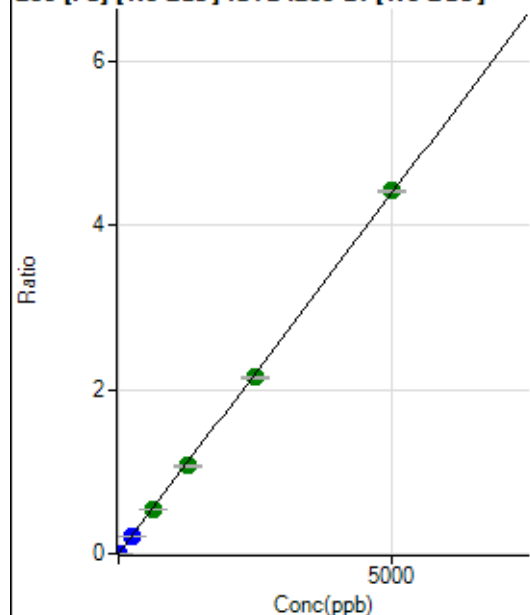
$$DL = 0.01077$$

$$BEC = 0.032$$

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	712.99	0.0001	P	11.7
2	☐	1.000	0.884	4823.20	0.0009	P	3.0
3	☐	250.000	231.381	1100193.41	0.2035	P	1.1
4	☐	625.000	612.065	2893815.08	0.5382	A	3.3
5	☐	1250.000	1217.057	5762009.15	1.0700	A	0.9
6	☐	2500.000	2452.103	11570557.43	2.1556	A	1.0
7	☐	5000.000	5034.732	23441140.80	4.4258	A	0.5
8	☐			10002.56	0.0024	P	46.9

$$y = 8.7903E-004 * x + 1.3296E-004$$

$$R = 0.9999$$

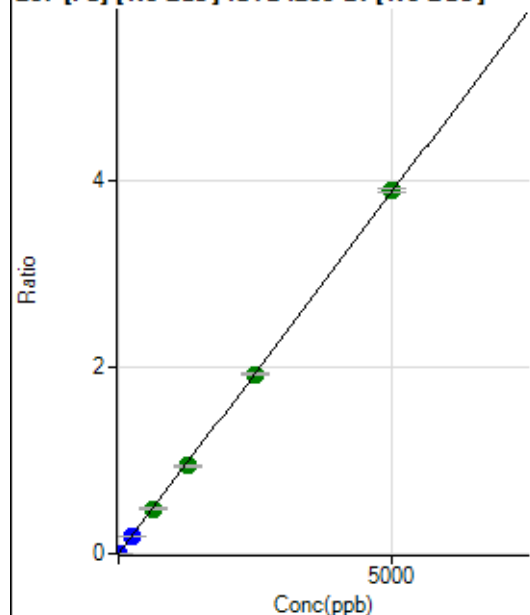
$$DL = 0.05292$$

$$BEC = 0.1513$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	566.69	0.0001	P	21.1
2	☐	1.000	0.895	4232.26	0.0008	P	7.6
3	☐	250.000	234.243	980559.24	0.1814	P	1.8
4	☐	625.000	616.875	2568089.55	0.4776	A	3.2
5	☐	1250.000	1212.556	5054750.86	0.9386	A	2.8
6	☐	2500.000	2481.411	10310659.03	1.9207	A	0.7
7	☐	5000.000	5020.459	20578662.03	3.8858	A	1.0
8	☐			8778.93	0.0021	P	44.9

$$y = 7.7398\text{E-}004 * x + 1.0580\text{E-}004$$

$$R = 1.0000$$

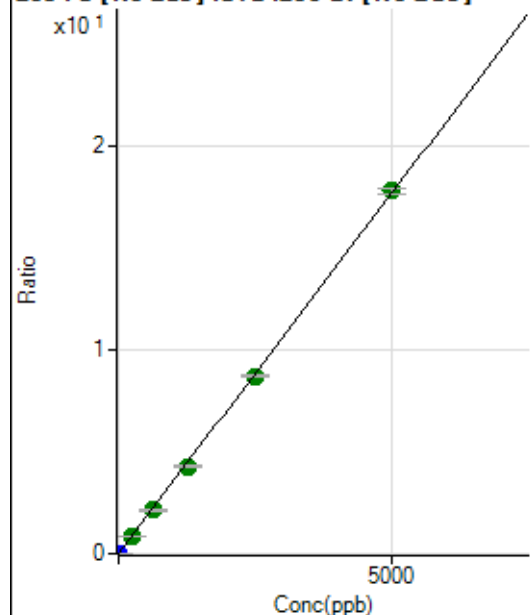
$$DL = 0.08657$$

$$BEC = 0.1367$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	2818.70	0.0005	P	7.8
2	☐	1.000	0.880	19283.76	0.0036	P	4.7
3	☐	250.000	237.661	4548865.38	0.8415	A	1.3
4	☐	625.000	604.278	11502878.09	2.1388	A	2.1
5	☐	1250.000	1207.019	23004420.36	4.2716	A	1.2
6	☐	2500.000	2458.687	46705125.81	8.7007	A	1.1
7	☐	5000.000	5034.609	94346797.48	17.8158	A	1.9
8	☐			39308.37	0.0093	P	44.0

$$y = 0.0035 * x + 5.2612\text{E-}004$$

$$R = 0.9999$$

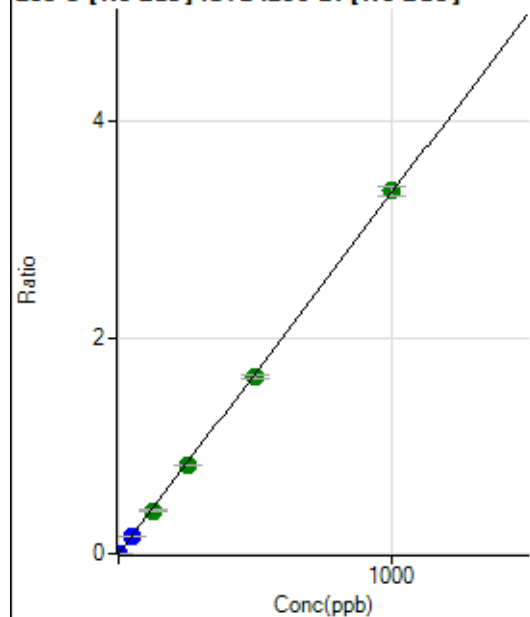
$$DL = 0.03464$$

$$BEC = 0.1487$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	369.46	0.0001	P	69.5
2	☐	1.000	0.879	15915.98	0.0030	P	2.9
3	☐	50.000	45.856	828025.95	0.1532	P	1.5
4	☐	125.000	119.137	2139619.21	0.3979	A	2.6
5	☐	250.000	245.089	4407750.32	0.8184	A	0.9
6	☐	500.000	490.985	8799518.51	1.6395	A	1.2
7	☐	1000.000	1006.675	17797675.05	3.3613	A	3.0
8	☐			4988.72	0.0012	P	78.0

$$y = 0.0033 * x + 6.8519E-005$$

$$R = 0.9999$$

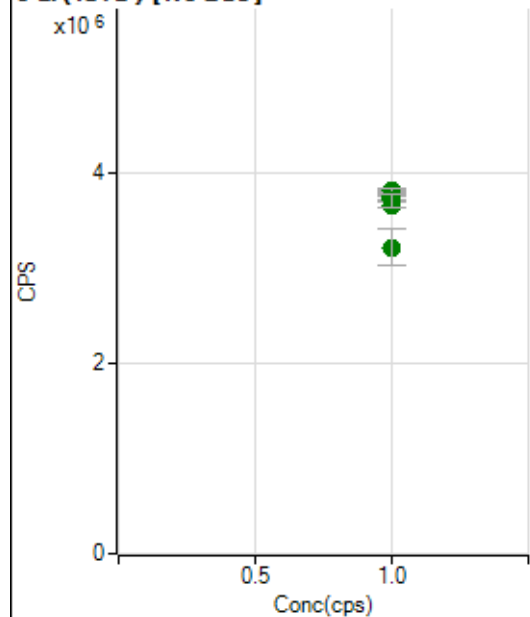
$$DL = 0.04282$$

$$BEC = 0.02052$$

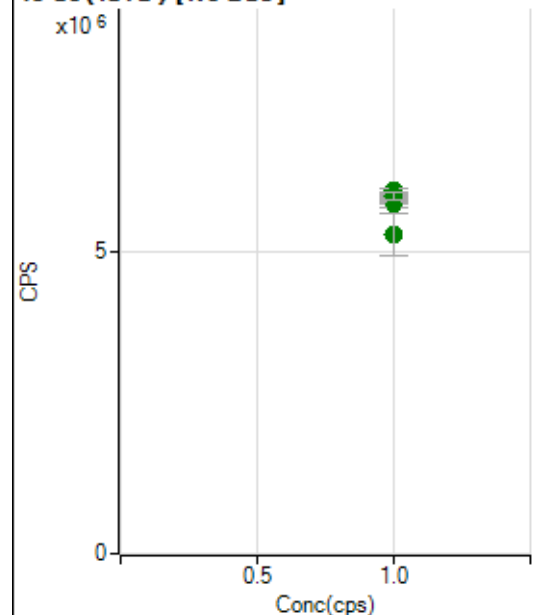
Weight: <None>

Min Conc: 0

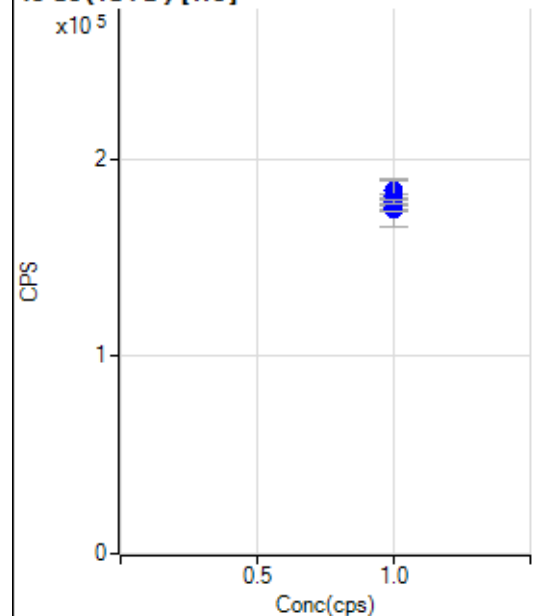
6 Li (ISTD) [No Gas]



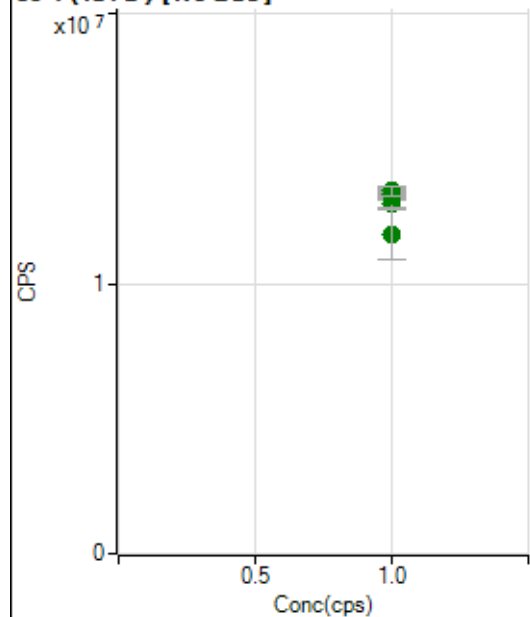
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		3740108.38		A	1.2
2	☐	1.000		3795332.67		A	1.5
3	☐	1.000		3811156.68		A	0.9
4	☐	1.000		3767082.27		A	1.8
5	☐	1.000		3817618.48		A	1.3
6	☐	1.000		3665853.49		A	1.6
7	☐	1.000		3716455.68		A	3.8
8	☐	1.000		3225599.90		A	12.4

45 Sc (ISTD) [No Gas]

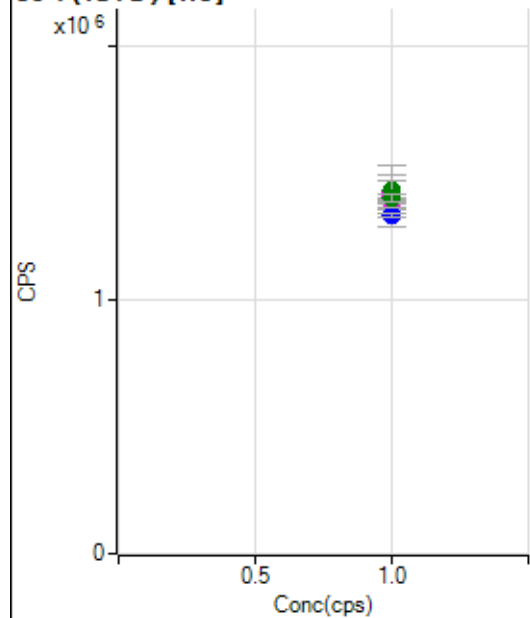
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6022710.74		A	1.6
2	☐	1.000		5825055.26		A	2.9
3	☐	1.000		5917661.02		A	1.2
4	☐	1.000		5936673.38		A	1.1
5	☐	1.000		5867266.99		A	2.3
6	☐	1.000		5857699.98		A	0.3
7	☐	1.000		5939807.76		A	2.2
8	☐	1.000		5288012.35		A	13.4

45 Sc (ISTD) [He]

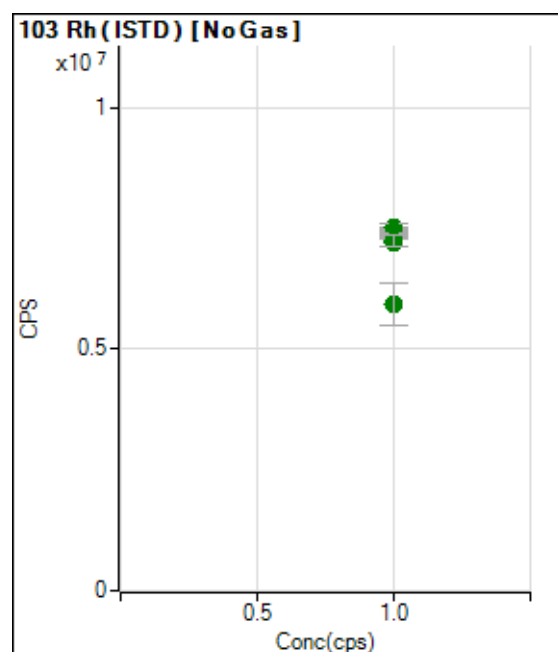
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		175673.98		P	1.2
2	☐	1.000		178335.74		P	0.7
3	☐	1.000		177736.70		P	13.9
4	☐	1.000		181198.06		P	1.3
5	☐	1.000		174444.98		P	1.6
6	☐	1.000		183742.30		P	5.1
7	☐	1.000		181593.25		P	9.5
8	☐	1.000		178132.21		P	1.2

89 Y (ISTD) [No Gas]

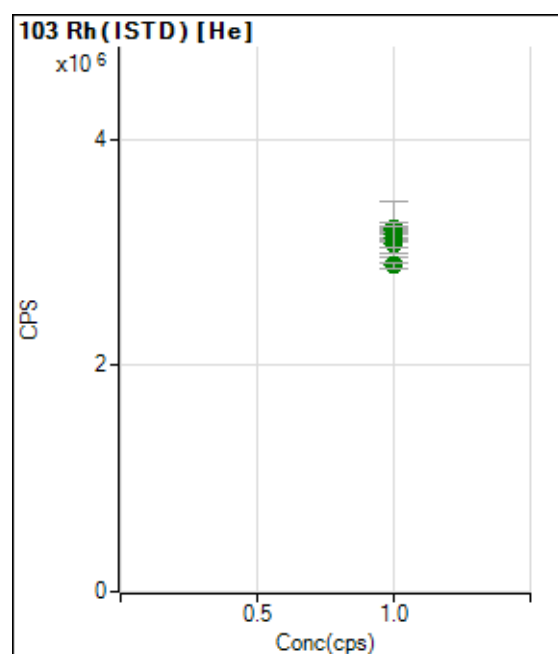
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		13212792.58		A	0.8
2	☐	1.000		12961865.92		A	2.1
3	☐	1.000		13248882.86		A	1.5
4	☐	1.000		13403950.77		A	2.4
5	☐	1.000		13433506.33		A	0.4
6	☐	1.000		13315449.39		A	1.1
7	☐	1.000		13443489.52		A	2.6
8	☐	1.000		11830684.13		A	15.4

89 Y (ISTD) [He]

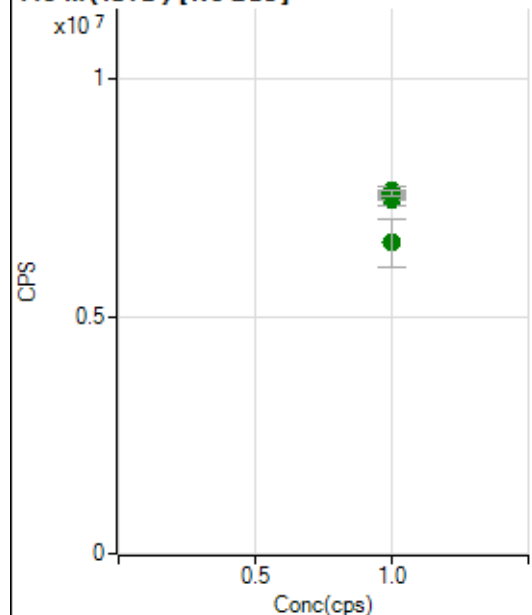
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1365196.25		M	1.5
2	☐	1.000		1387120.68		M	0.6
3	☐	1.000		1407556.43		M	17.3
4	☐	1.000		1393990.55		M	0.6
5	☐	1.000		1329450.10		P	1.1
6	☐	1.000		1423697.59		M	6.5
7	☐	1.000		1427415.29		A	8.8
8	☐	1.000		1402145.92		A	2.3



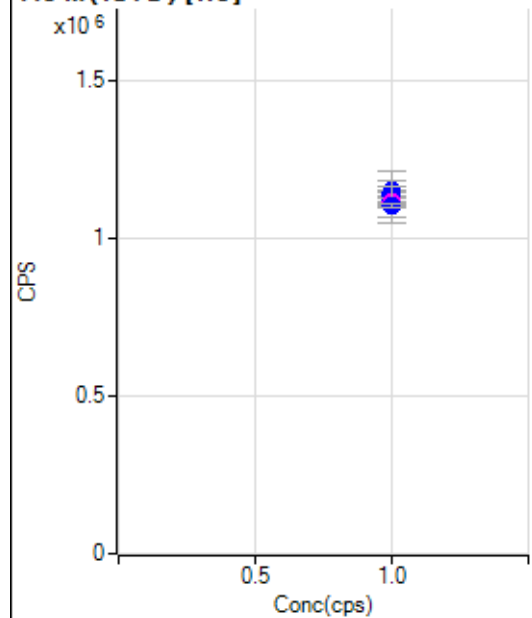
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7426718.74		A	1.3
2	☐	1.000		7416044.44		A	3.4
3	☐	1.000		7515367.01		A	2.5
4	☐	1.000		7450155.98		A	0.5
5	☐	1.000		7365689.92		A	0.9
6	☐	1.000		7221769.34		A	2.6
7	☐	1.000		7243044.26		A	3.2
8	☐	1.000		5941922.96		A	14.6



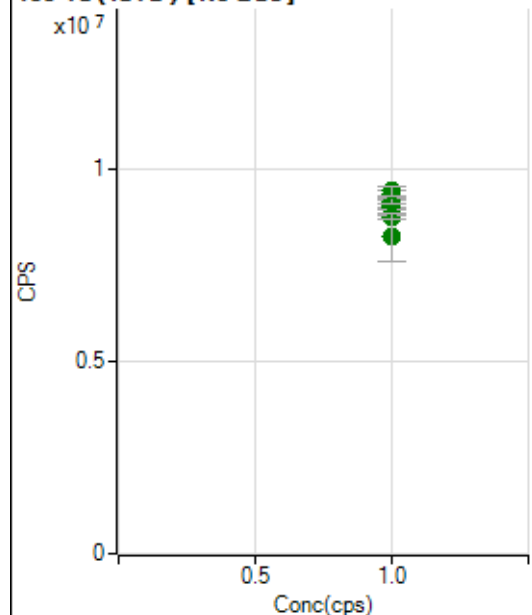
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3166799.99		A	2.3
2	☐	1.000		3188941.10		A	1.3
3	☐	1.000		3201072.43		A	15.5
4	☐	1.000		3210737.87		A	1.5
5	☐	1.000		3072553.29		A	1.5
6	☐	1.000		3172074.22		A	3.9
7	☐	1.000		3129921.58		A	8.8
8	☐	1.000		2887321.07		A	2.1

115 In (ISTD) [No Gas]

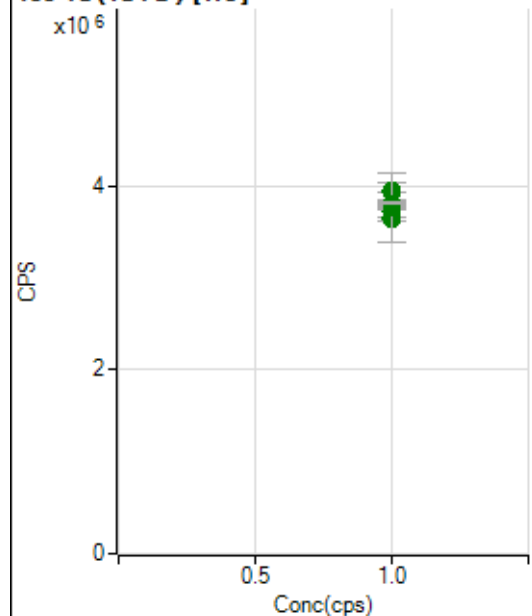
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7615321.37		A	0.3
2	☐	1.000		7442938.52		A	3.3
3	☐	1.000		7605051.11		A	3.2
4	☐	1.000		7642490.68		A	2.0
5	☐	1.000		7558179.10		A	0.8
6	☐	1.000		7509507.38		A	1.7
7	☐	1.000		7593754.82		A	1.8
8	☐	1.000		6547631.93		A	15.7

115 In (ISTD) [He]

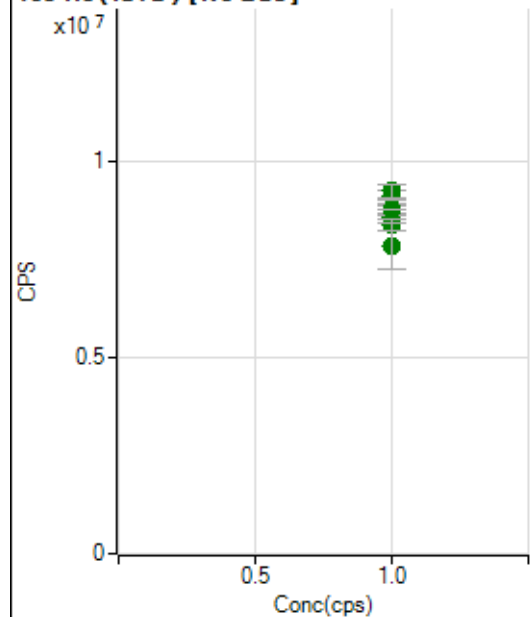
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1121296.95		P	0.7
2	☐	1.000		1138646.80		P	0.7
3	☐	1.000		1131793.45		P	14.6
4	☐	1.000		1148775.90		P	0.6
5	☐	1.000		1108198.66		P	1.3
6	☐	1.000		1147388.15		P	5.8
7	☐	1.000		1114901.75		M	8.8
8	☐	1.000		1102744.74		P	0.7

159 Tb (ISTD) [No Gas]

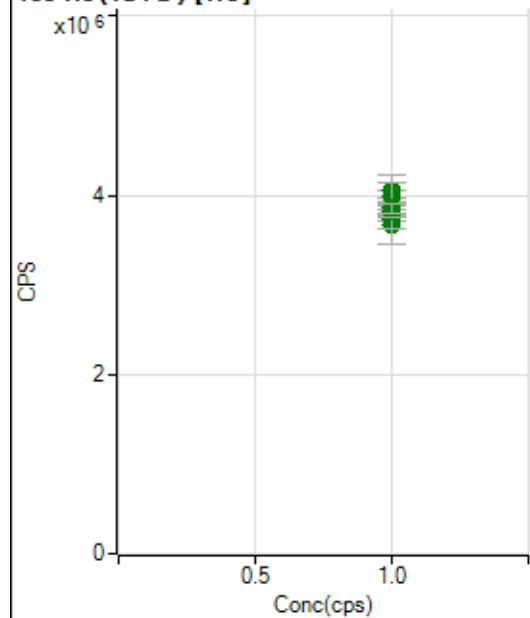
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9054682.85		A	1.2
2	☐	1.000		8773635.77		A	1.0
3	☐	1.000		9341883.06		A	2.6
4	☐	1.000		9028584.31		A	1.6
5	☐	1.000		9250706.95		A	1.1
6	☐	1.000		9184868.13		A	1.6
7	☐	1.000		9443781.46		A	2.7
8	☐	1.000		8239942.86		A	15.2

159 Tb (ISTD) [He]

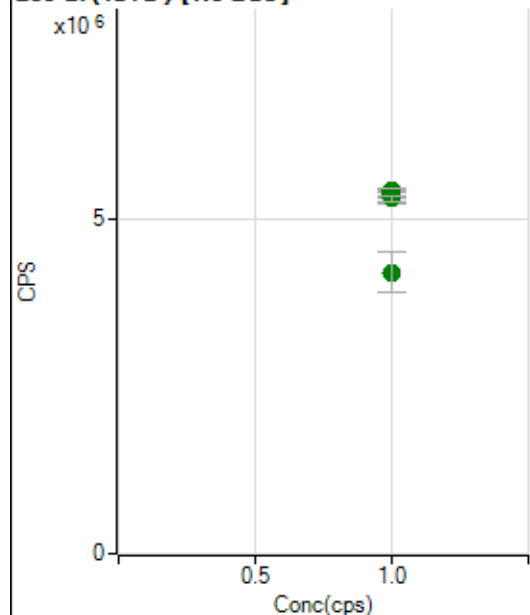
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3639262.24		A	1.1
2	☐	1.000		3715723.70		A	2.8
3	☐	1.000		3663532.83		A	14.8
4	☐	1.000		3755304.84		A	0.6
5	☐	1.000		3791698.59		A	0.2
6	☐	1.000		3936446.16		A	5.0
7	☐	1.000		3941659.21		A	9.6
8	☐	1.000		3811565.18		A	0.9

165 Ho (ISTD) [No Gas]

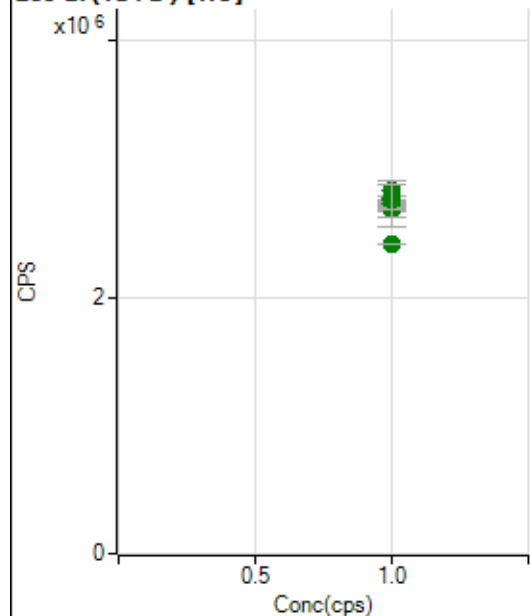
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8604890.73		A	2.0
2	☐	1.000		8380758.52		A	3.5
3	☐	1.000		8791580.84		A	3.2
4	☐	1.000		8782754.19		A	2.2
5	☐	1.000		8781457.75		A	0.5
6	☐	1.000		9138215.74		A	2.9
7	☐	1.000		9255382.50		A	4.0
8	☐	1.000		7857912.24		A	14.6

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3666220.23		A	2.3
2	☐	1.000		3737631.51		A	1.7
3	☐	1.000		3761422.93		A	16.1
4	☐	1.000		3902706.12		A	0.7
5	☐	1.000		3815729.46		A	1.1
6	☐	1.000		4048890.39		A	4.3
7	☐	1.000		3996332.51		A	11.8
8	☐	1.000		3853571.61		A	2.5

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5354760.72		A	2.3
2	☐	1.000		5301723.19		A	3.6
3	☐	1.000		5406110.96		A	1.1
4	☐	1.000		5379354.40		A	1.9
5	☐	1.000		5385647.73		A	1.9
6	☐	1.000		5368318.15		A	2.3
7	☐	1.000		5296302.80		A	1.5
8	☐	1.000		4195674.10		A	14.6

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2695957.91		A	2.0
2	☐	1.000		2733325.55		A	1.4
3	☐	1.000		2732556.78		A	13.4
4	☐	1.000		2769180.51		A	1.4
5	☐	1.000		2691756.18		A	0.7
6	☐	1.000		2829628.78		A	6.0
7	☐	1.000		2753194.58		A	9.6
8	☐	1.000		2413508.68		A	0.1

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP8012623 MS-2.b
Acq. Date-Time 2023-01-26 13:19:25
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		12501	125008.97			2.917	5.000
24		92419	924186.12			3.592	5.000
25		12154	121536.25			2.980	5.000
26		13996	139956.45			2.652	5.000
59		66847	668466.22			3.288	5.000
113		6890	68896.78			2.634	5.000
115		91766	917659.50			3.318	5.000
206		17884	178842.54			2.802	5.000
207		15957	159573.67			2.840	5.000
208		38089	380893.89			3.372	5.000
220		0	4.20			23.207	

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

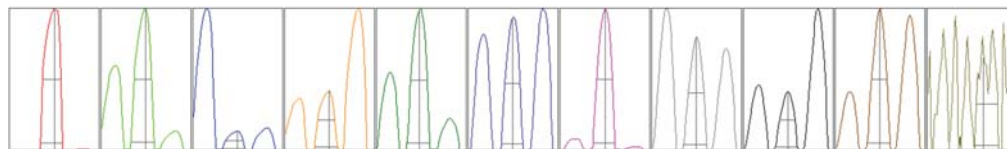
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	11950	12410	12481	12857	12807
24	86932	94681	91891	93419	95171
25	11632	12102	12063	12381	12590
26	13440	14020	13890	14198	14431
59	63537	69194	65951	67368	68183
113	6634	6791	6910	7039	7074
115	88012	90765	90263	94621	95169
206	17335	17651	17609	18495	18331
207	15508	15811	15604	16328	16537
208	36928	37237	37334	39231	39717

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	21654.52	9.05	8.90 - 9.10	
24	167633.61	24.00	23.90 - 24.10	
25	22342.94	25.00	24.90 - 25.10	
26	25731.88	26.00	25.90 - 26.10	
59	126114.44	58.95	58.90 - 59.10	
113	14247.97	113.00	112.90 - 113.10	
115	184506.05	115.05	114.90 - 115.10	
206	35959.33	206.00	205.90 - 206.10	
207	32349.57	207.00	206.90 - 207.10	
208	77890.26	208.00	207.90 - 208.10	
220	0.65	220.40	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.61	0.738	0.900	
24	0.58	0.780	0.900	
25	0.58	0.742	0.900	
26	0.58	0.777	0.900	
59	0.55	0.763	0.900	
113	0.51	0.717	0.900	
115	0.51	0.728	0.900	
206	0.52	0.771	0.900	
207	0.52	0.734	0.900	
208	0.51	0.772	0.900	
220	0.70	0.791		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.87 L/min Dilution Gas 0.40 L/min

US EPA Tune Check Report

RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	9.9 V	Deflect	15.0 V
Extract 2	-150.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-75 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	180 V		

QP Parameters

Mass Gain	123	Axis Gain	0.9994	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	-0.03		

Hardware Settings

Torch

Torch H	1.0 mm	Torch V	-0.8 mm
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EM

Discriminator	4.4 mV	Analog HV	2306 V	Pulse HV	1648 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		13262	132619.88			1.125	
89		14974	149739.96			0.976	
205		11106	111060.42			1.714	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	13019	13268	13399	13367	13258
89	14801	14985	15150	15077	14857
205	10829	11015	11203	11158	11325

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.87 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	9.9 V	Deflect	4.4 V
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US EPA Tune Check Report

Extract 2	-150.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-75 V	Cell Exit	-70 V		

Cell Parameters

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

QP Parameters

Mass Gain	123	Axis Gain	0.9994	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.03		

Hardware Settings

Torch

Torch H	1.0 mm	Torch V	-0.8 mm
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EM

Discriminator	4.4 mV	Analog HV	2306 V	Pulse HV	1648 V
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