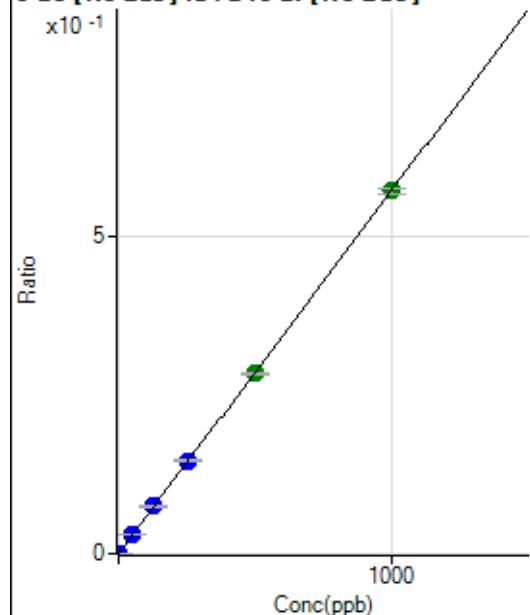


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8110921-MS.b\
Analysis File: P8110921-MS.batch.bin
DA Date-Time: 2021-11-10 01:15:13
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2021-11-09 12:01:55
2	005CALS.d	S02	2021-11-09 12:08:04
3	006CALS.d	S03	2021-11-09 12:11:10
4	007CALS.d	S04	2021-11-09 12:14:13
5	008CALS.d	S05	2021-11-09 12:17:19
6	009CALS.d	S06	2021-11-09 12:20:22
7	010CALS.d	S07	2021-11-09 12:23:28
8	011CALS.d	S08	2021-11-09 12:26:31

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	99.31	0.0000	P	10.0
2	☐	1.000	1.049	2502.39	0.0006	P	2.7
3	☐	50.000	52.124	120568.04	0.0298	P	2.1
4	☐	125.000	131.012	300192.14	0.0750	P	2.6
5	☐	250.000	255.146	591538.81	0.1460	P	1.4
6	☐	500.000	496.334	1177178.21	0.2839	A	1.0
7	☐	1000.000	999.689	2263468.42	0.5719	A	1.7
8	☐			624.56	0.0002	P	18.9

$$y = 5.7200\text{E-}004 * x + 2.6372\text{E-}005$$

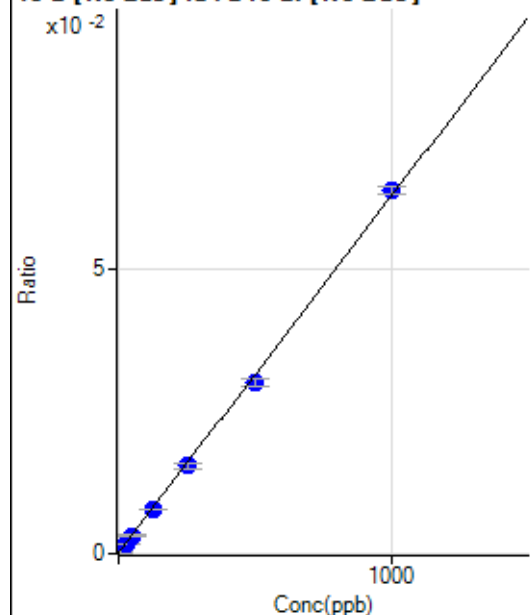
$$R = 1.0000$$

$$DL = 0.01387$$

$$BEC = 0.0461$$

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	607.89	0.0002	P	12.0
2	☐	25.000	23.937	6626.21	0.0017	P	11.6
3	☐	50.000	48.022	12793.73	0.0032	P	7.2
4	☐	125.000	121.797	31196.89	0.0078	P	2.3
5	☐	250.000	242.665	62174.02	0.0154	P	7.7
6	☐	500.000	476.603	124335.42	0.0300	P	4.0
7	☐	1000.000	1014.058	251932.72	0.0636	P	2.1
8	☐			28059.24	0.0074	P	7.5

$$y = 6.2596\text{E-}005 * x + 1.6163\text{E-}004$$

$$R = 0.9996$$

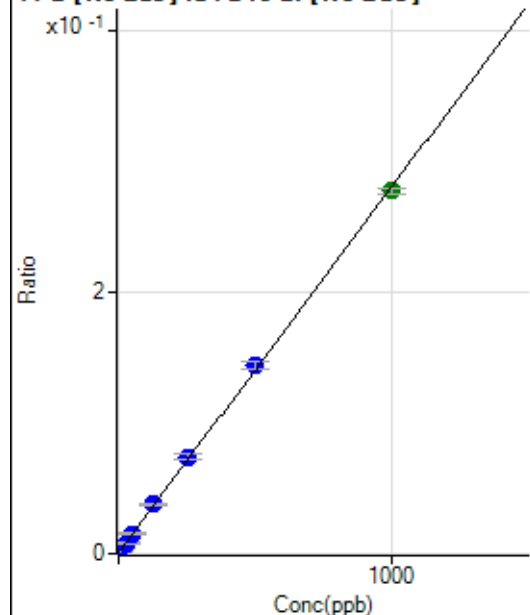
$$DL = 0.9282$$

$$BEC = 2.582$$

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	2922.39	0.0008	P	8.3
2	☐	25.000	25.822	31960.44	0.0080	P	6.2
3	☐	50.000	51.875	61769.00	0.0153	P	5.5
4	☐	125.000	132.084	151188.53	0.0377	P	3.3
5	☐	250.000	262.692	300875.98	0.0743	P	5.2
6	☐	500.000	511.858	596850.17	0.1440	P	4.6
7	☐	1000.000	989.898	1099645.23	0.2777	A	1.4
8	☐			134821.69	0.0356	P	8.4

$$y = 2.7978E-004 * x + 7.7621E-004$$

$$R = 0.9998$$

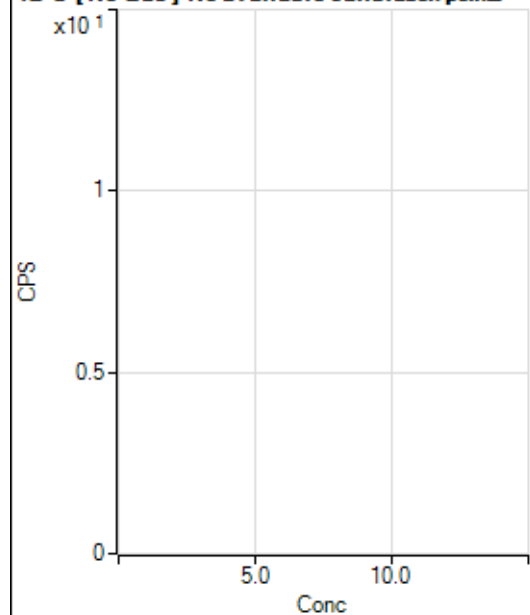
$$DL = 0.6943$$

$$BEC = 2.774$$

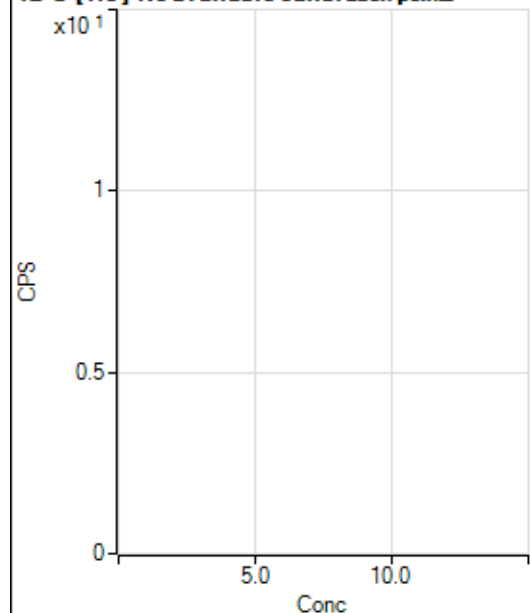
Weight: <None>

Min Conc: 0

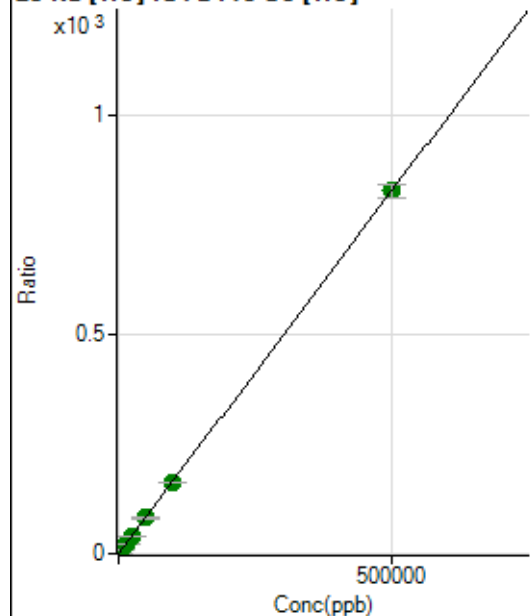
12 C [No Gas] No available calibration points



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐			6973302.85		A	0.3
2	☐			7439312.93		A	0.5
3	☐			7706307.20		A	0.9
4	☐			7944348.61		A	1.9
5	☐			8187850.88		A	1.9
6	☐			8631060.78		A	1.1
7	☐			9264200.38		A	2.2
8	☐			8330623.80		A	1.6

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			64812.95		P	1.5
2	☐			68356.46		P	0.9
3	☐			73475.69		P	0.5
4	☐			75295.99		P	1.4
5	☐			78624.49		P	3.1
6	☐			83303.02		P	1.4
7	☐			90677.27		P	1.0
8	☐			88058.09		P	1.5

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	20044.70	0.0823	P	2.9
2	☐	500.000	478.071	217475.90	0.8717	P	0.9
3	☐	5000.000	5010.179	2122604.41	8.3559	A	0.3
4	☐	12500.000	12378.861	5051205.58	20.5244	A	1.5
5	☐	25000.000	24766.635	10145871.49	40.9812	A	1.4
6	☐	50000.000	49226.710	19573657.38	81.3739	A	0.9
7	☐	100000.00	98313.162	38692535.24	162.4340	A	1.8
8	☐	500000.00	500429.31	189944475.0	826.4779	A	3.8

$$y = 0.0017 * x + 0.0823$$

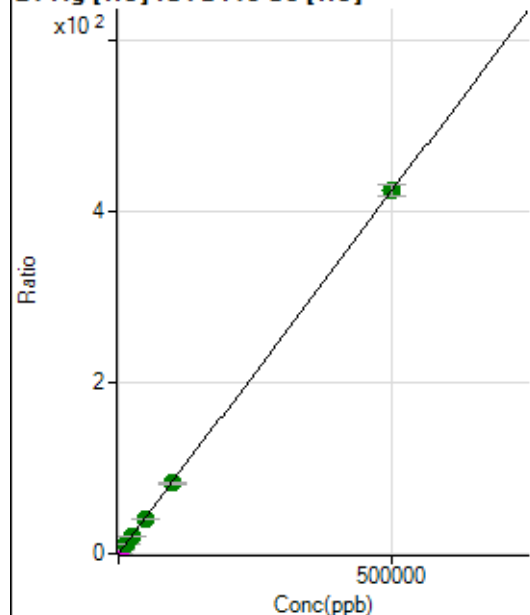
$$R = 1.0000$$

$$DL = 4.4$$

$$BEC = 49.81$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	675.03	0.0028	P	18.0
2	☐	500.000	477.808	101793.57	0.4081	P	1.7
3	☐	5000.000	4990.320	1075992.92	4.2357	M	1.1
4	☐	12500.000	12316.395	2571758.72	10.4500	A	2.4
5	☐	25000.000	24808.442	5210696.30	21.0462	A	0.9
6	☐	50000.000	48703.996	9937484.68	41.3153	A	1.4
7	☐	100000.00	97646.561	19728855.30	82.8303	A	2.8
8	☐	500000.00	500614.57	97611720.93	424.6428	A	3.1

$$y = 8.4824\text{E-}004 * x + 0.0028$$

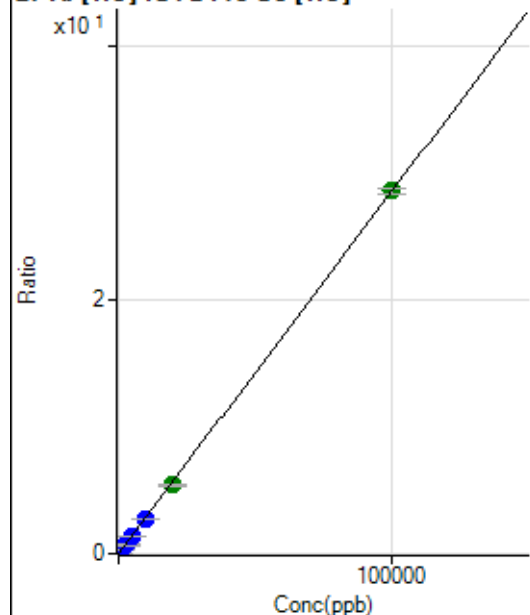
$$R = 1.0000$$

$$DL = 1.768$$

$$BEC = 3.269$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	141.23	0.0006	P	12.9
2	☐	20.000	18.763	1480.32	0.0059	P	0.6
3	☐	1000.000	956.088	69447.57	0.2734	P	0.7
4	☐	2500.000	2390.525	168022.57	0.6827	P	1.6
5	☐	5000.000	4732.061	334446.83	1.3509	P	1.1
6	☐	10000.000	9449.119	648717.94	2.6969	P	1.2
7	☐	20000.000	19028.504	1293311.88	5.4304	A	3.1
8	☐	100000.00	100265.96	6579424.87	28.6116	A	1.6

$$y = 2.8535\text{E-}004 * x + 5.7952\text{E-}004$$

$$R = 0.9999$$

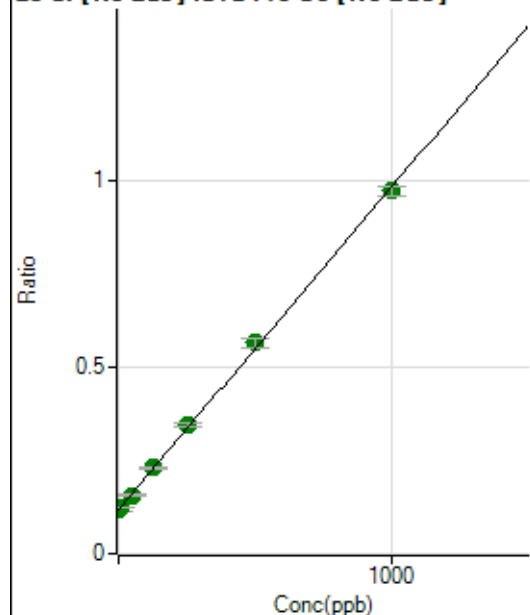
$$DL = 0.7853$$

$$BEC = 2.031$$

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	900685.83	0.1178	A	9.7
2	☐	10.000	4.901	973379.61	0.1221	A	1.4
3	☐	50.000	44.381	1278400.90	0.1561	A	1.0
4	☐	125.000	128.948	1856009.22	0.2291	A	2.1
5	☐	250.000	263.750	2800069.64	0.3455	A	3.5
6	☐	500.000	516.358	4601458.70	0.5635	A	4.2
7	☐	1000.000	988.222	7826426.39	0.9707	A	2.5
8	☐			2282624.73	0.2899	A	0.4

$$y = 8.6300\text{E-}004 * x + 0.1178$$

R = 0.9996

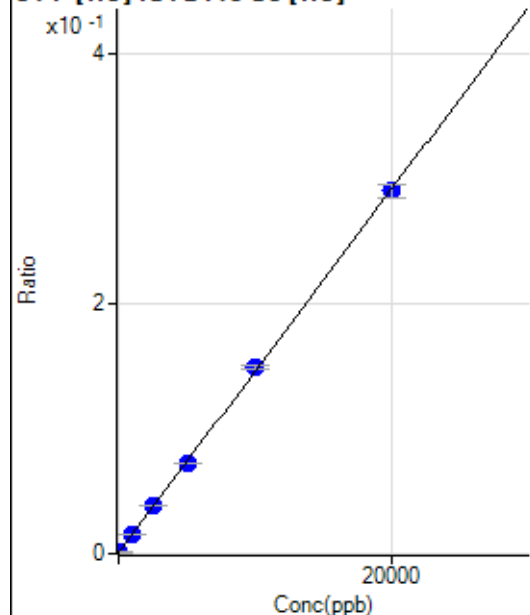
DL = 39.74

BEC = 136.5

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-11.747	122.23	0.0005	P	49.7
2	☐	0.000	11.747	211.12	0.0008	P	18.2
3	☐	1000.000	990.454	3836.73	0.0151	P	3.0
4	☐	2500.000	2594.996	9470.01	0.0385	P	1.0
5	☐	5000.000	4923.478	17925.40	0.0724	P	1.0
6	☐	10000.000	10187.957	35858.95	0.1491	P	2.3
7	☐	20000.000	19913.755	69252.44	0.2908	P	3.5
8	☐			166.67	0.0007	P	5.5

$$y = 1.4568\text{E-}005 * x + 6.7304\text{E-}004$$

R = 0.9999

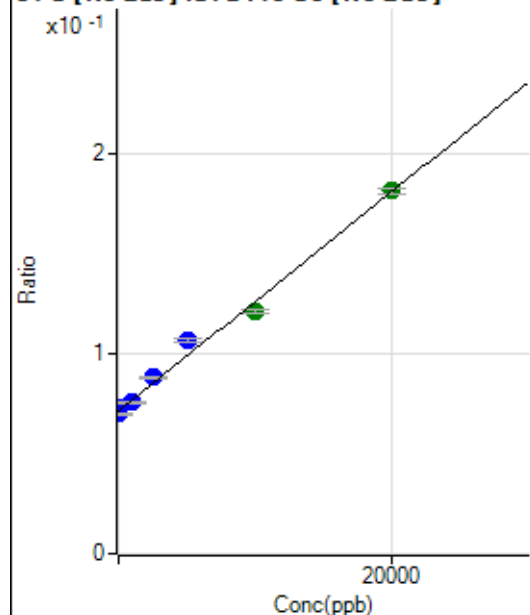
DL = 41.52

BEC = 46.2

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	287.020	557435.75	0.0729	P	7.8
2	☐	0.000	-287.020	556010.51	0.0697	P	1.3
3	☐	1000.000	760.068	617747.72	0.0755	P	1.2
4	☐	2500.000	3038.286	712214.92	0.0879	P	1.2
5	☐	5000.000	6412.776	862268.02	0.1064	P	2.3
6	☐	10000.000	9049.282	986807.70	0.1208	A	2.1
7	☐	20000.000	20066.876	1459792.23	0.1811	A	1.4
8	☐			485797.42	0.0617	P	2.8

$$y = 5.4715\text{E-}006 * x + 0.0713$$

$$R = 0.9948$$

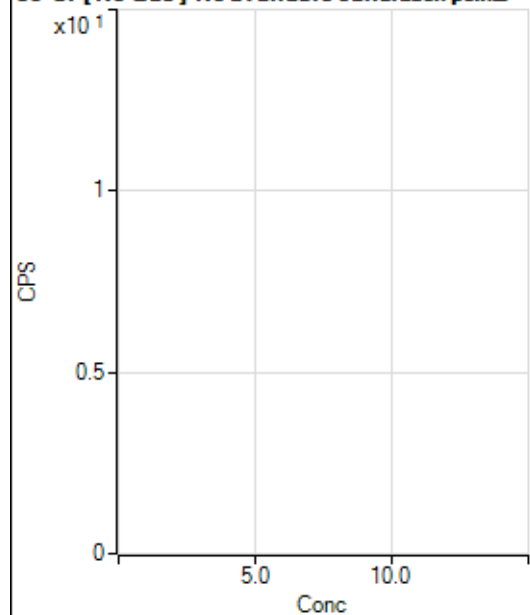
$$DL = 1807$$

$$BEC = 1.303\text{E}+04$$

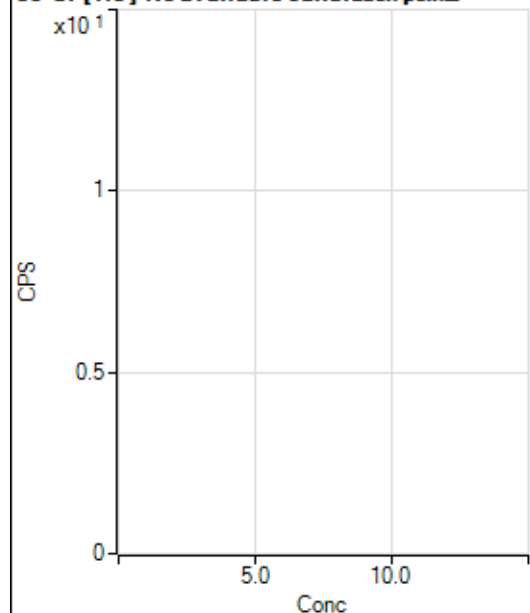
Weight: <None>

Min Conc: 0

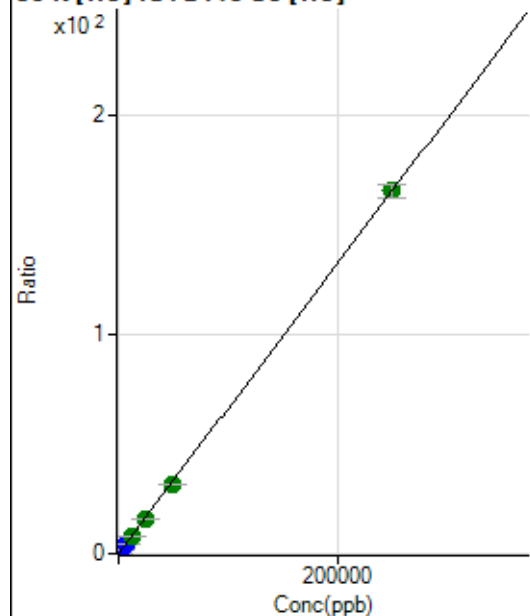
35 Cl [No Gas] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			608199.91		P	1.2
2	☐			605253.33		P	1.1
3	☐			576362.65		P	0.8
4	☐			547689.74		P	0.6
5	☐			526456.87		P	1.0
6	☐			532365.81		P	1.2
7	☐			509814.07		P	0.7
8	☐			520208.29		P	0.8

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3397.71		P	7.8
2	☐			3569.96		P	6.7
3	☐			3611.66		P	6.5
4	☐			3344.93		P	0.1
5	☐			3194.88		P	6.3
6	☐			3072.65		P	9.0
7	☐			2886.48		P	3.0
8	☐			3128.19		P	5.5

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	23294.27	0.0956	P	0.1
2	☐	500.000	466.293	100524.06	0.4030	P	2.1
3	☐	2500.000	2444.034	433572.29	1.7070	P	1.4
4	☐	6250.000	6144.781	1020629.88	4.1469	P	0.6
5	☐	12500.000	12253.663	2023721.44	8.1746	A	2.5
6	☐	25000.000	23773.815	3793109.33	15.7699	A	2.0
7	☐	50000.000	47438.568	7473190.97	31.3724	A	1.6
8	☐	250000.00	250650.47	38000475.85	165.3525	A	4.0

$$y = 6.5931E-004 * x + 0.0956$$

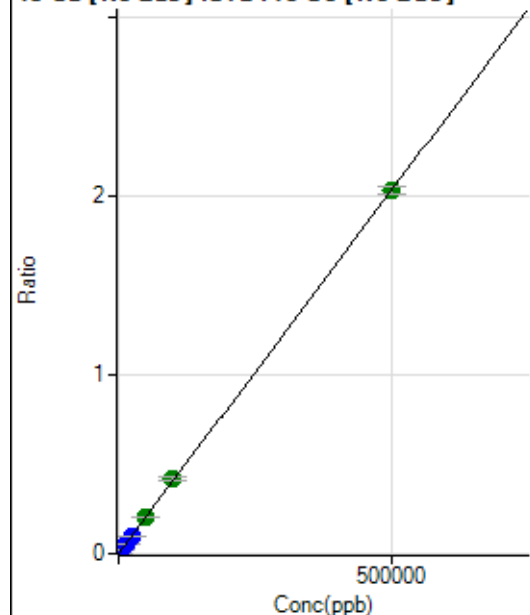
$$R = 0.9999$$

$$DL = 0.5284$$

$$BEC = 145$$

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	378.29	0.0000	P	5.7
2	☐	500.000	463.980	15421.79	0.0019	P	2.8
3	☐	5000.000	4914.996	163862.58	0.0200	P	2.2
4	☐	12500.000	12302.353	405267.94	0.0500	P	0.7
5	☐	25000.000	24827.018	817916.22	0.1009	P	2.1
6	☐	50000.000	51034.009	1694699.19	0.2074	A	1.5
7	☐	100000.00	102872.53	3368454.52	0.4180	A	3.4
8	☐	500000.00	499336.56	15971855.84	2.0286	A	2.0

$$y = 4.0626\text{E-}006 * x + 4.9299\text{E-}005$$

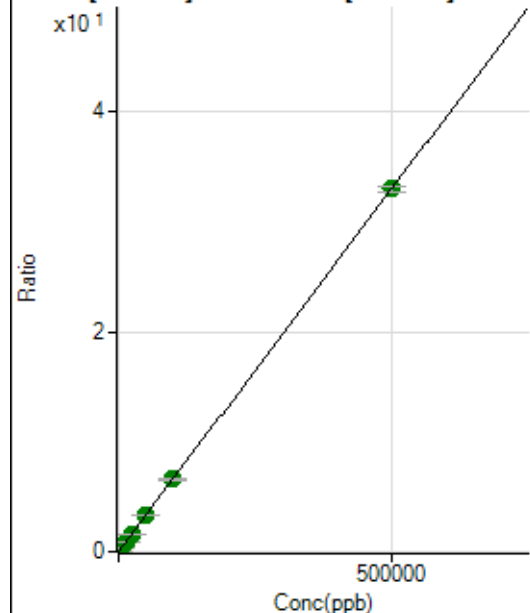
$$R = 1.0000$$

$$DL = 2.082$$

$$BEC = 12.13$$

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	45333.68	0.0059	P	7.6
2	☐	500.000	460.324	289127.40	0.0363	P	0.9
3	☐	5000.000	4996.256	2744132.33	0.3351	A	1.0
4	☐	12500.000	12294.054	6610896.57	0.8160	A	1.5
5	☐	25000.000	24853.677	13322408.16	1.6436	A	1.8
6	☐	50000.000	49368.323	26623879.14	3.2589	A	1.2
7	☐	100000.00	99366.313	52822000.67	6.5534	A	1.8
8	☐	500000.00	500202.44	259539902.9	32.9656	A	1.9

$$y = 6.5893\text{E-}005 * x + 0.0059$$

$$R = 1.0000$$

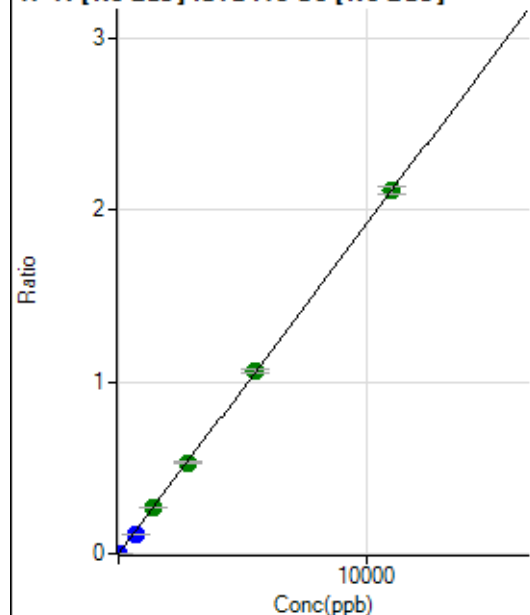
$$DL = 20.6$$

$$BEC = 89.92$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	300.01	0.0000	P	10.2
2	☐	5.000	5.298	8411.05	0.0011	P	2.3
3	☐	687.500	565.815	888404.72	0.1085	P	1.8
4	☐	1375.000	1395.589	2167568.49	0.2676	A	1.2
5	☐	2750.000	2747.169	4269038.98	0.5267	A	2.2
6	☐	5500.000	5515.378	8637621.37	1.0574	A	1.9
7	☐	11000.000	10998.050	16994888.58	2.1085	A	2.1
8	☐			3936.77	0.0005	P	13.3

$$y = 1.9171\text{E-}004 * x + 3.9260\text{E-}005$$

$$R = 0.9999$$

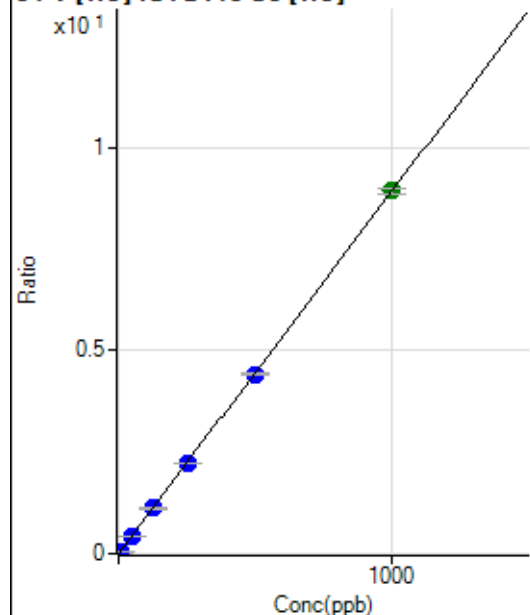
$$DL = 0.06252$$

$$BEC = 0.2048$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	4.45	0.0000	P	86.6
2	☐	5.000	4.908	10899.81	0.0437	P	2.2
3	☐	50.000	49.801	112591.94	0.4433	P	1.0
4	☐	125.000	125.330	274536.26	1.1155	P	1.2
5	☐	250.000	248.967	548629.09	2.2159	P	0.2
6	☐	500.000	495.465	1060731.67	4.4098	P	1.3
7	☐	1000.000	1002.495	2125462.21	8.9226	A	1.5
8	☐			765.58	0.0033	P	13.6

$$y = 0.0089 * x + 1.8212\text{E-}005$$

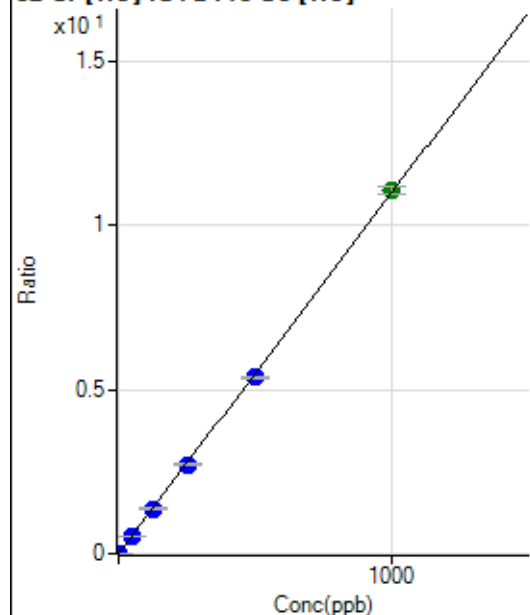
$$R = 1.0000$$

$$DL = 0.005317$$

$$BEC = 0.002046$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	732.25	0.0030	P	9.9
2	☐	2.000	1.961	6130.26	0.0246	P	3.0
3	☐	50.000	49.566	139185.11	0.5480	P	1.3
4	☐	125.000	124.759	338322.05	1.3747	P	0.8
5	☐	250.000	247.142	673468.04	2.7202	P	1.1
6	☐	500.000	489.322	1294730.75	5.3828	P	1.6
7	☐	1000.000	1006.106	2635588.92	11.0646	A	2.0
8	☐			9064.06	0.0394	P	2.8

$$y = 0.0110 * x + 0.0030$$

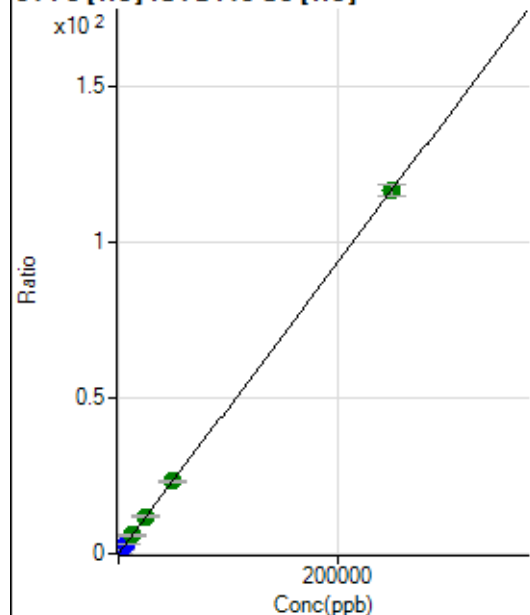
$$R = 0.9999$$

$$DL = 0.08112$$

$$BEC = 0.2733$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	648.17	0.0027	P	15.3
2	☐	50.000	50.694	6547.90	0.0263	P	3.2
3	☐	2500.000	2524.745	299148.37	1.1776	P	0.5
4	☐	6250.000	6314.885	723931.82	2.9415	P	1.4
5	☐	12500.000	12726.633	1466859.37	5.9254	A	3.5
6	☐	25000.000	25643.906	2871259.67	11.9369	A	1.9
7	☐	50000.000	50267.122	5572401.05	23.3961	A	2.7
8	☐	250000.00	249868.98	26728788.33	116.2874	A	3.4

$$y = 4.6538E-004 * x + 0.0027$$

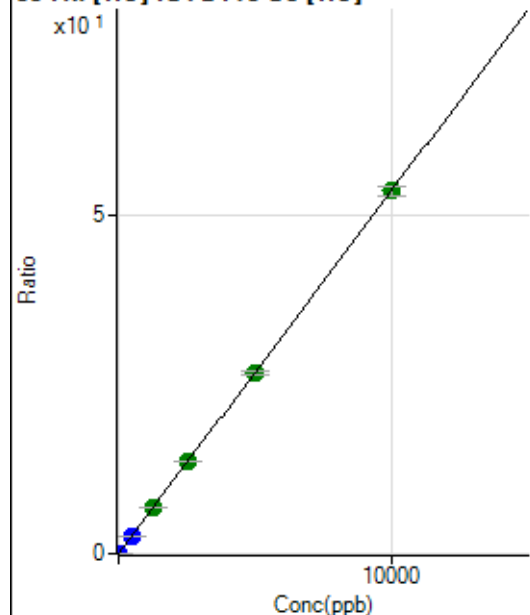
$$R = 1.0000$$

$$DL = 2.63$$

$$BEC = 5.719$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	77.78	0.0003	P	29.4
2	☐	1.000	1.094	1538.99	0.0062	P	3.5
3	☐	500.000	497.371	675750.69	2.6602	P	0.1
4	☐	1250.000	1265.204	1665287.96	6.7665	A	2.0
5	☐	2500.000	2529.989	3349858.25	13.5304	A	1.0
6	☐	5000.000	4988.265	6417350.60	26.6770	A	2.4
7	☐	10000.000	9996.601	12733483.56	53.4609	A	2.5
8	☐			21791.22	0.0948	P	4.2

$$y = 0.0053 * x + 3.1973E-004$$

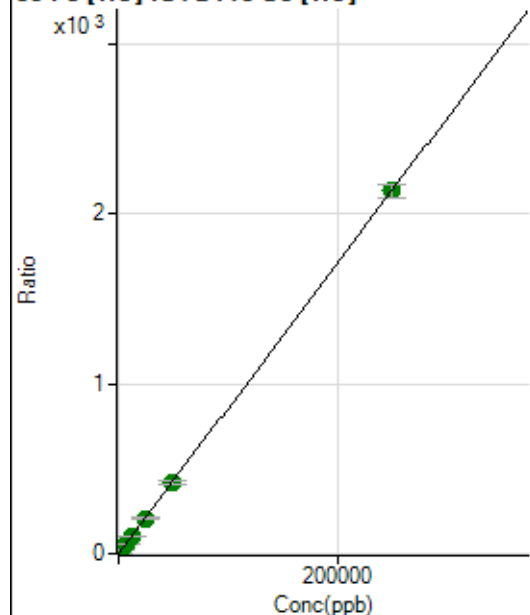
$$R = 1.0000$$

$$DL = 0.05267$$

$$BEC = 0.05979$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	4184.01	0.0172	P	3.4
2	☐	50.000	48.219	106918.07	0.4286	P	1.8
3	☐	2500.000	2490.013	5401504.46	21.2645	A	1.2
4	☐	6250.000	6313.111	13261851.22	53.8870	A	2.0
5	☐	12500.000	12470.429	26349568.88	106.4274	A	0.7
6	☐	25000.000	24477.737	50247618.72	208.8858	A	1.2
7	☐	50000.000	49009.710	99590211.48	418.2172	A	4.1
8	☐	250000.00	250250.28	490842399.8	2.135.403	A	3.4

$$y = 0.0085 * x + 0.0172$$

$$R = 1.0000$$

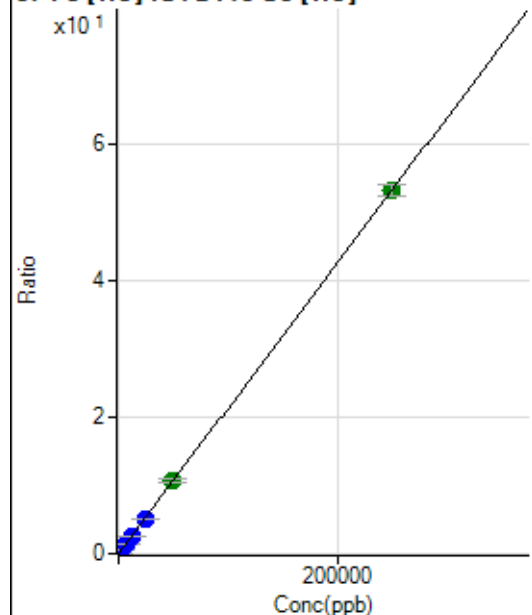
$$DL = 0.2035$$

$$BEC = 2.012$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	262.97	0.0011	P	5.6
2	☐	50.000	46.439	2731.79	0.0110	P	5.3
3	☐	2500.000	2477.111	134099.07	0.5279	P	0.8
4	☐	6250.000	6233.980	326539.52	1.3269	P	3.1
5	☐	12500.000	12283.676	647065.21	2.6135	P	0.5
6	☐	25000.000	24178.161	1237056.47	5.1431	P	1.9
7	☐	50000.000	50309.800	2548411.51	10.7006	A	3.3
8	☐	250000.00	250031.67	12222779.56	53.1759	A	3.4

$$y = 2.1267\text{E-}004 * x + 0.0011$$

$$R = 1.0000$$

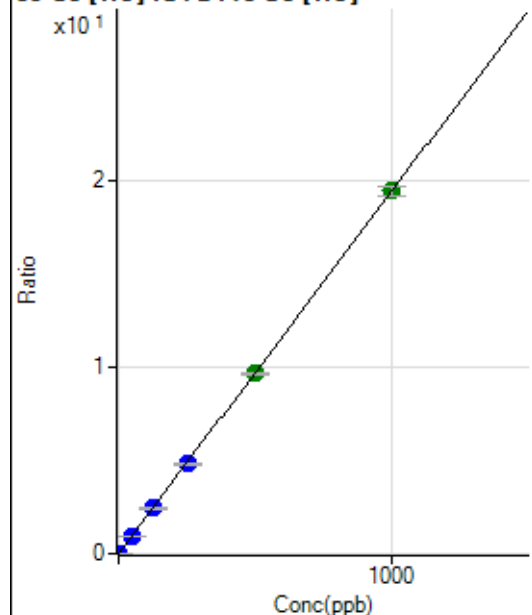
$$DL = 0.8543$$

$$BEC = 5.075$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	88.89	0.0004	P	8.5
2	☐	1.000	1.005	4947.58	0.0198	P	1.6
3	☐	50.000	50.062	246391.66	0.9700	P	0.9
4	☐	125.000	125.215	596954.82	2.4255	P	1.0
5	☐	250.000	247.347	1186163.24	4.7910	P	0.7
6	☐	500.000	497.685	2318677.20	9.6396	A	1.4
7	☐	1000.000	1001.791	4621232.53	19.4031	A	2.9
8	☐			6755.01	0.0294	P	1.8

$$y = 0.0194 * x + 3.6452\text{E-}004$$

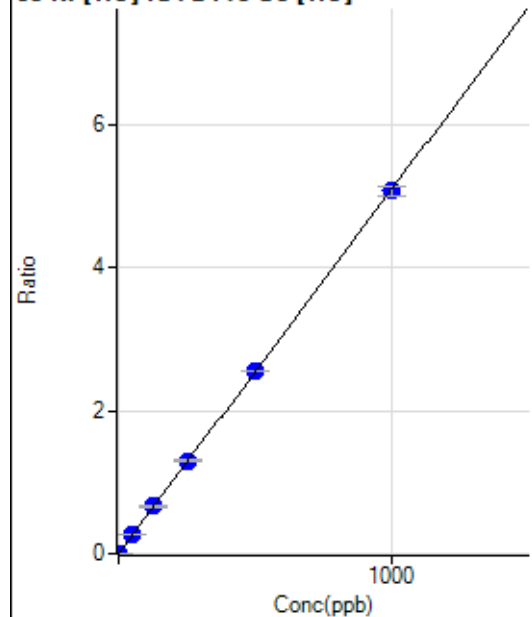
$$R = 1.0000$$

$$DL = 0.004825$$

$$BEC = 0.01882$$

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	166.67	0.0007	P	8.3
2	☐	1.000	1.012	1455.65	0.0058	P	8.9
3	☐	50.000	51.733	66962.36	0.2636	P	1.9
4	☐	125.000	129.737	162455.61	0.6601	P	1.1
5	☐	250.000	256.053	322372.92	1.3021	P	0.7
6	☐	500.000	502.352	614329.75	2.5539	P	0.7
7	☐	1000.000	996.632	1206670.68	5.0661	P	2.4
8	☐			3118.15	0.0136	P	9.0

$$y = 0.0051 * x + 6.8394E-004$$

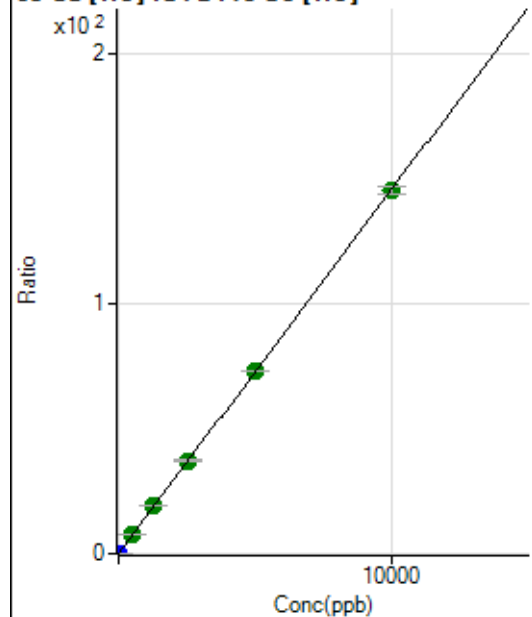
$$R = 1.0000$$

$$DL = 0.03353$$

$$BEC = 0.1346$$

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	791.14	0.0032	P	5.2
2	☐	2.000	2.085	8379.21	0.0336	P	2.8
3	☐	500.000	523.660	1936893.72	7.6250	A	0.9
4	☐	1250.000	1313.411	4705304.86	19.1196	A	2.9
5	☐	2500.000	2556.651	9213657.64	37.2147	A	1.0
6	☐	5000.000	5024.172	17590721.68	73.1289	A	0.7
7	☐	10000.000	9964.642	34548070.60	145.0362	A	2.0
8	☐			11308.17	0.0491	P	18.8

$$y = 0.0146 * x + 0.0032$$

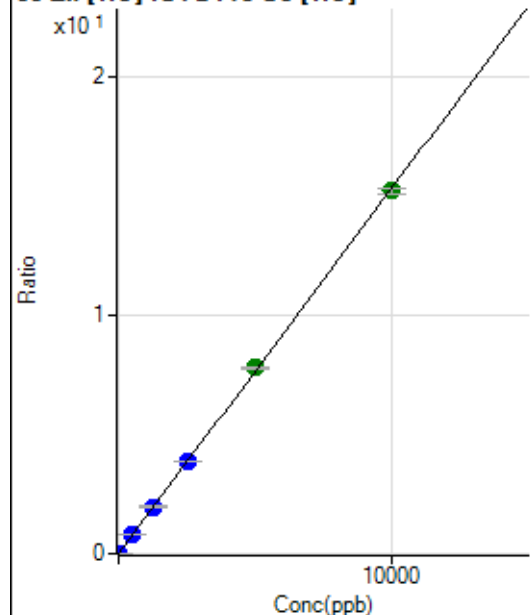
$$R = 1.0000$$

$$DL = 0.03492$$

$$BEC = 0.223$$

Weight: <None>

Min Conc: 0

⁶⁶Zn [He] ISTD: ⁴⁵Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	268.89	0.0011	P	19.7
2	☐	2.000	1.998	1036.71	0.0042	P	3.1
3	☐	500.000	515.654	200494.29	0.7893	P	1.1
4	☐	1250.000	1287.997	484794.42	1.9698	P	1.2
5	☐	2500.000	2523.315	955167.30	3.8580	P	0.9
6	☐	5000.000	5101.135	1875723.60	7.7983	A	1.2
7	☐	10000.000	9938.071	3618959.87	15.1916	A	1.3
8	☐			8808.37	0.0383	P	3.7

$$y = 0.0015 * x + 0.0011$$

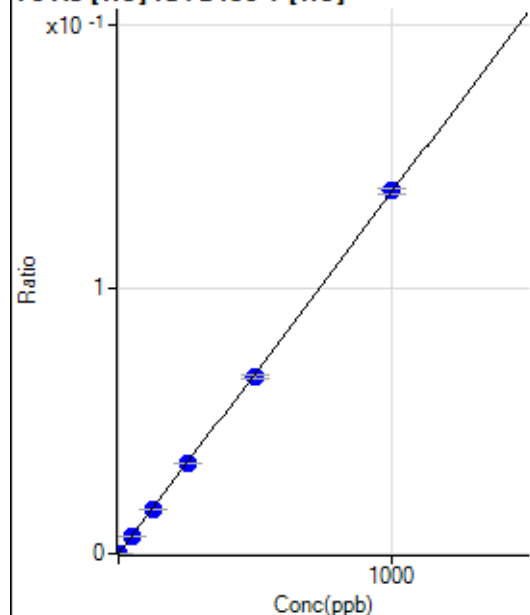
$$R = 0.9999$$

$$DL = 0.4267$$

$$BEC = 0.7209$$

Weight: <None>

Min Conc: 0

⁷⁵As [He] ISTD: ⁸⁹Y [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	8.67	0.0000	P	24.0
2	☐	1.000	0.988	250.36	0.0001	P	7.6
3	☐	50.000	50.135	12399.69	0.0068	P	0.9
4	☐	125.000	124.497	30177.08	0.0170	P	0.8
5	☐	250.000	251.148	60445.73	0.0342	P	1.0
6	☐	500.000	489.713	117036.51	0.0668	P	1.9
7	☐	1000.000	1004.913	234489.35	0.1370	P	1.3
8	☐			94.01	0.0001	P	27.1

$$y = 1.3630E-004 * x + 4.9502E-006$$

$$R = 0.9999$$

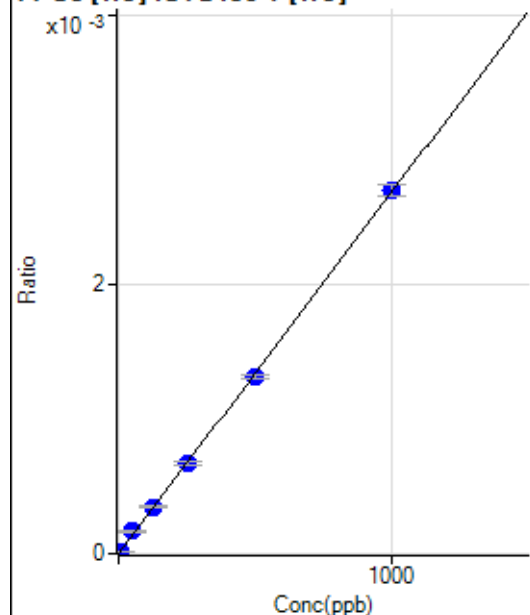
$$DL = 0.02612$$

$$BEC = 0.03632$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	4.616	22.22	0.0000	P	57.2
3	☐	50.000	62.487	304.45	0.0002	P	8.6
4	☐	125.000	129.784	620.02	0.0003	P	4.3
5	☐	250.000	250.331	1187.84	0.0007	P	3.6
6	☐	500.000	489.287	2305.77	0.0013	P	2.5
7	☐	1000.000	1004.053	4618.58	0.0027	P	3.1
8	☐			0.00	0.0000	P	

$$y = 2.6870\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9998$$

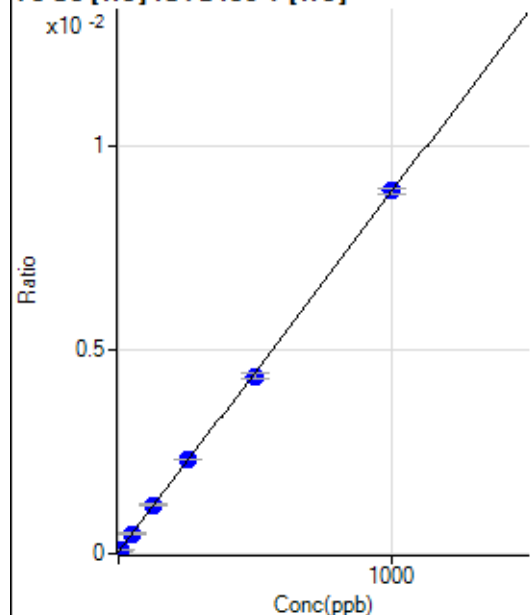
$$DL = 0$$

$$BEC = 0$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	74.01	0.0000	P	6.4
2	☐	5.000	4.946	154.35	0.0001	P	2.2
3	☐	50.000	50.864	892.79	0.0005	P	3.5
4	☐	125.000	130.923	2134.38	0.0012	P	1.9
5	☐	250.000	256.673	4083.68	0.0023	P	1.3
6	☐	500.000	489.044	7658.86	0.0044	P	2.8
7	☐	1000.000	1003.027	15262.78	0.0089	P	1.7
8	☐			75.68	0.0000	P	10.4

$$y = 8.8465\text{E-}006 * x + 4.2278\text{E-}005$$

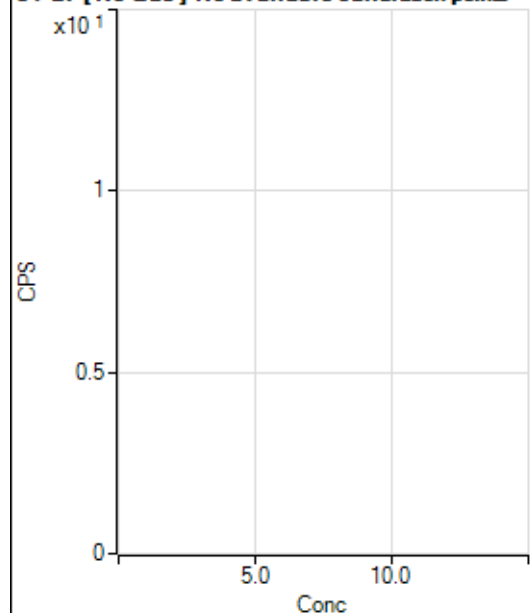
$$R = 0.9999$$

$$DL = 0.9228$$

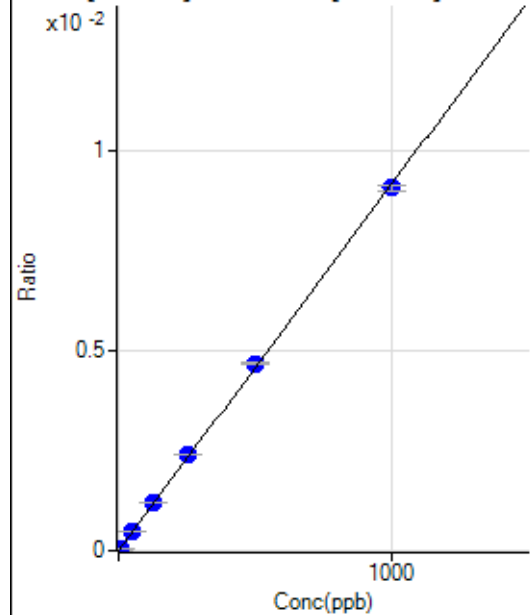
$$BEC = 4.779$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			23647.61		P	4.0
2	☐			23681.18		P	2.3
3	☐			23795.05		P	3.6
4	☐			23691.17		P	1.7
5	☐			24246.04		P	4.3
6	☐			22494.45		P	2.2
7	☐			23096.55		P	2.2
8	☐			24045.43		P	4.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	-104.51	0.0000	P	-126.
2	☐	5.000	5.632	745.27	0.0000	P	8.5
3	☐	50.000	53.482	8186.67	0.0005	P	2.3
4	☐	125.000	131.677	20215.43	0.0012	P	0.8
5	☐	250.000	261.588	40208.89	0.0024	P	0.9
6	☐	500.000	511.245	79314.39	0.0047	P	1.3
7	☐	1000.000	990.469	156475.78	0.0091	P	1.5
8	☐			218.03	0.0000	P	23.9

$$y = 9.1512E-006 * x - 6.4611E-006$$

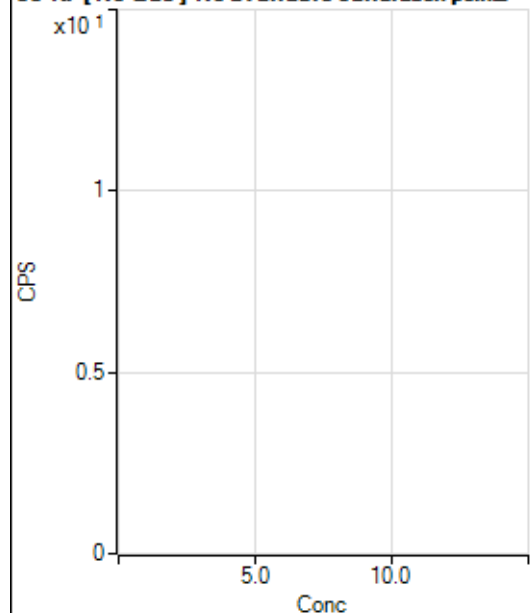
$$R = 0.9998$$

$$DL = 2.682$$

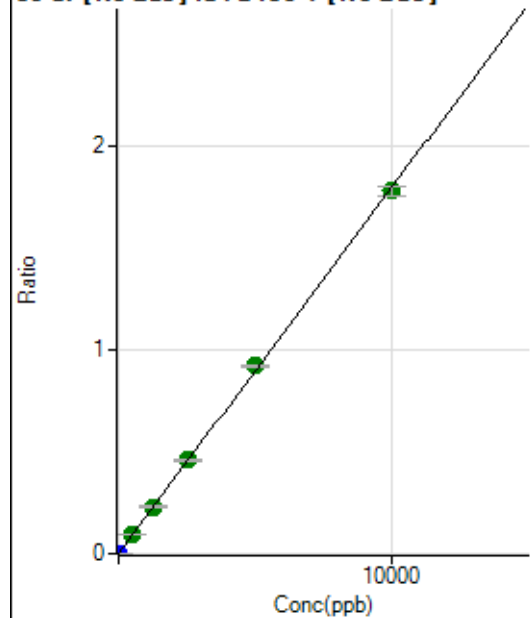
$$BEC = -0.706$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3431.57		P	3.8
2	☐			3298.21		P	1.2
3	☐			3237.07		P	0.5
4	☐			3183.73		P	0.4
5	☐			3304.87		P	3.8
6	☐			3348.21		P	0.8
7	☐			3334.88		P	3.4
8	☐			3207.06		P	3.4

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	5253.91	0.0003	P	9.6
2	☐	1.000	0.948	8338.80	0.0005	P	4.3
3	☐	500.000	527.355	1612394.24	0.0951	A	0.4
4	☐	1250.000	1283.891	3896715.41	0.2310	A	1.4
5	☐	2500.000	2560.067	7753309.29	0.4604	A	2.5
6	☐	5000.000	5125.553	15641169.45	0.9213	A	1.3
7	☐	10000.000	9916.602	30787910.41	1.7823	A	2.7
8	☐			27299.41	0.0017	P	3.3

$$y = 1.7969E-004 * x + 3.3387E-004$$

$$R = 0.9999$$

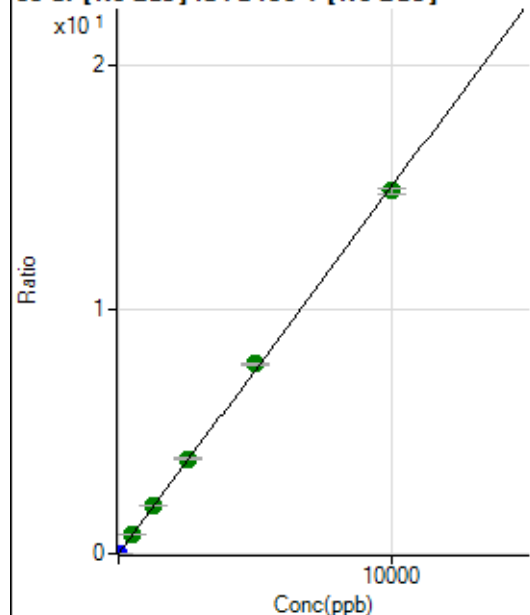
$$DL = 0.5379$$

$$BEC = 1.858$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	311.12	0.0000	P	26.7
2	☐	1.000	1.055	26589.75	0.0016	P	3.0
3	☐	500.000	518.013	13223847.00	0.7799	A	0.3
4	☐	1250.000	1301.022	33035225.39	1.9587	A	1.6
5	☐	2500.000	2591.182	65705317.44	3.9009	A	1.8
6	☐	5000.000	5167.809	132082390.4	7.7800	A	0.9
7	☐	10000.000	9886.022	257116336.3	14.8830	A	1.5
8	☐			188355.03	0.0115	P	4.8

$$y = 0.0015 * x + 1.9834E-005$$

$$R = 0.9997$$

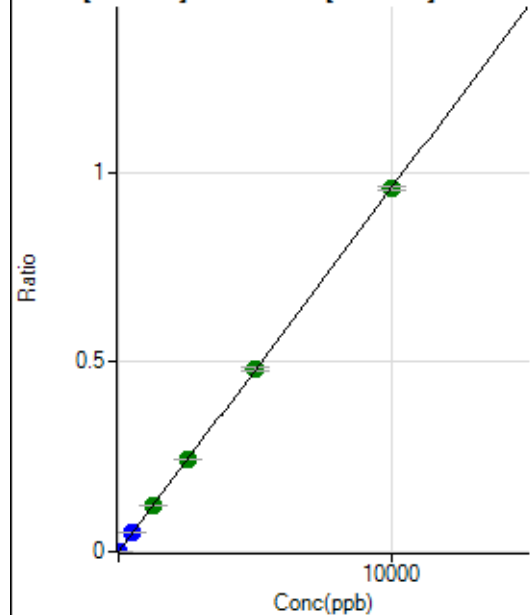
$$DL = 0.01055$$

$$BEC = 0.01317$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	927.83	0.0001	P	6.2
2	☐	1.000	10.147	17058.10	0.0010	P	1.9
3	☐	500.000	510.081	829744.93	0.0489	P	1.1
4	☐	1250.000	1278.493	2067610.40	0.1226	A	1.5
5	☐	2500.000	2532.668	4088986.59	0.2428	A	0.2
6	☐	5000.000	5023.189	8173095.32	0.4814	A	1.4
7	☐	10000.000	9976.172	16518756.27	0.9561	A	0.9
8	☐			9161.57	0.0006	P	6.2

$$y = 9.5832E-005 * x + 5.8687E-005$$

$$R = 1.0000$$

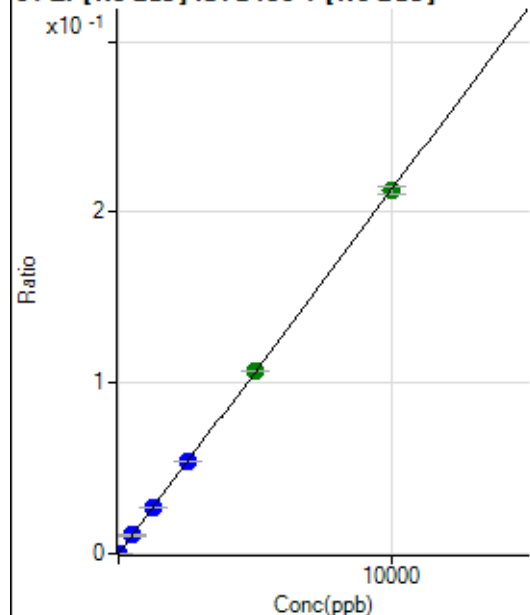
$$DL = 0.1141$$

$$BEC = 0.6124$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	213.90	0.0000	P	13.6
2	☐	1.000	10.029	3758.94	0.0002	P	3.3
3	☐	500.000	504.376	182346.41	0.0108	P	2.7
4	☐	1250.000	1253.767	450691.28	0.0267	P	1.0
5	☐	2500.000	2521.788	905016.20	0.0537	P	0.2
6	☐	5000.000	5041.277	1823408.72	0.1074	A	0.1
7	☐	10000.000	9973.224	3670285.84	0.2125	A	2.2
8	☐			2089.10	0.0001	P	5.8

$$y = 2.1302\text{E-}005 * x + 1.3613\text{E-}005$$

$$R = 1.0000$$

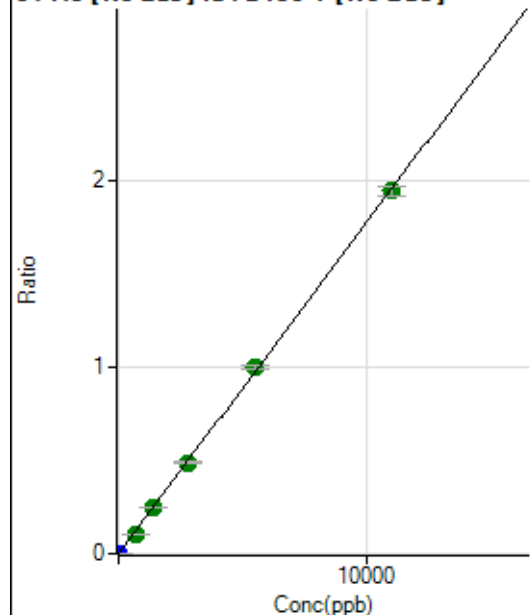
$$DL = 0.2601$$

$$BEC = 0.6391$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	338.90	0.0000	P	8.5
2	☐	5.000	6.260	18729.77	0.0011	P	5.5
3	☐	687.500	562.113	1691057.02	0.0998	A	2.6
4	☐	1375.000	1385.376	4146949.88	0.2459	A	1.8
5	☐	2750.000	2735.960	8176822.41	0.4855	A	1.9
6	☐	5500.000	5628.460	16955917.74	0.9988	A	2.3
7	☐	11000.000	10945.819	33554475.75	1.9423	A	2.9
8	☐			11235.41	0.0007	P	11.9

$$y = 1.7745\text{E-}004 * x + 2.1453\text{E-}005$$

$$R = 0.9998$$

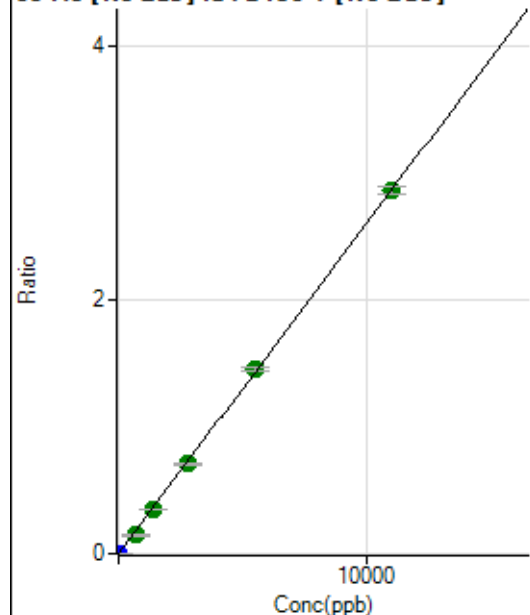
$$DL = 0.03101$$

$$BEC = 0.1209$$

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	80.56	0.0000	P	34.2
2	☐	5.000	5.038	21789.96	0.0013	P	2.2
3	☐	687.500	556.591	2457264.53	0.1450	A	3.3
4	☐	1375.000	1354.737	5951799.57	0.3529	A	1.8
5	☐	2750.000	2713.285	11902149.22	0.7067	A	2.7
6	☐	5500.000	5582.071	24683147.95	1.4539	A	1.6
7	☐	11000.000	10978.858	49399150.76	2.8595	A	2.1
8	☐			12700.66	0.0008	P	19.8

$$y = 2.6046\text{E-}004 * x + 5.0504\text{E-}006$$

$$R = 0.9999$$

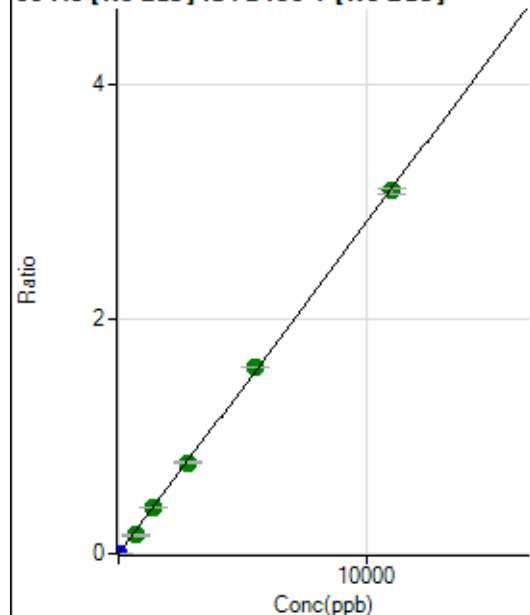
$$DL = 0.01988$$

$$BEC = 0.01939$$

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	205.56	0.0000	P	18.2
2	☐	5.000	5.273	24833.93	0.0015	P	3.4
3	☐	687.500	557.537	2667538.36	0.1574	A	2.8
4	☐	1375.000	1377.271	6557050.71	0.3888	A	0.7
5	☐	2750.000	2750.226	13074243.44	0.7763	A	0.9
6	☐	5500.000	5639.586	27024563.45	1.5918	A	0.3
7	☐	11000.000	10937.989	53334638.34	3.0873	A	1.8
8	☐			24622.76	0.0015	P	10.6

$$y = 2.8225\text{E-}004 * x + 1.3062\text{E-}005$$

$$R = 0.9998$$

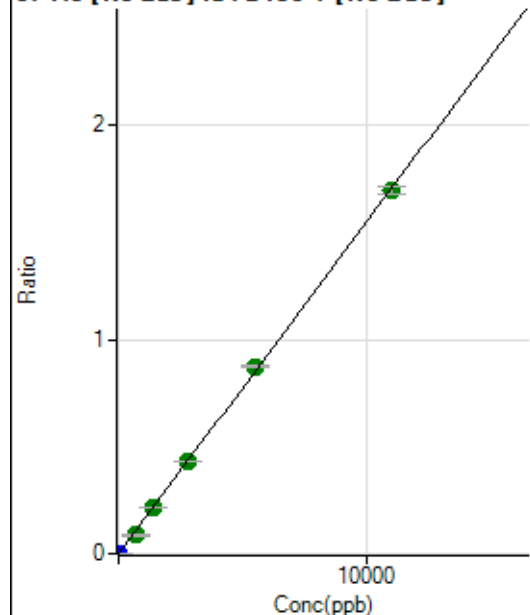
$$DL = 0.02528$$

$$BEC = 0.04628$$

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	38.89	0.0000	P	61.0
2	☐	5.000	5.338	13734.95	0.0008	P	2.1
3	☐	687.500	556.906	1463313.81	0.0863	A	3.7
4	☐	1375.000	1396.228	3651161.32	0.2165	A	1.8
5	☐	2750.000	2789.222	7283126.55	0.4324	A	1.2
6	☐	5500.000	5631.970	14823956.23	0.8732	A	1.4
7	☐	11000.000	10929.718	29273308.64	1.6945	A	2.0
8	☐			7924.76	0.0005	P	19.4

$$y = 1.5504\text{E-}004 * x + 2.4595\text{E-}006$$

$$R = 0.9998$$

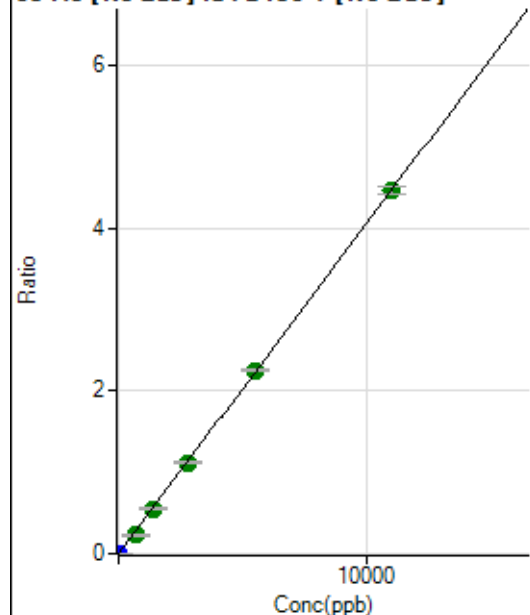
$$DL = 0.02901$$

$$BEC = 0.01586$$

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	97.23	0.0000	P	12.8
2	☐	5.000	5.169	34833.40	0.0021	P	1.0
3	☐	687.500	552.819	3805965.58	0.2245	A	2.0
4	☐	1375.000	1366.410	9360023.73	0.5549	A	2.7
5	☐	2750.000	2757.998	18864690.53	1.1201	A	1.8
6	☐	5500.000	5557.216	38315808.84	2.2569	A	0.6
7	☐	11000.000	10978.884	77024861.44	4.4588	A	2.2
8	☐			19250.12	0.0012	P	15.2

$$y = 4.0612\text{E-}004 * x + 6.1349\text{E-}006$$

$$R = 0.9999$$

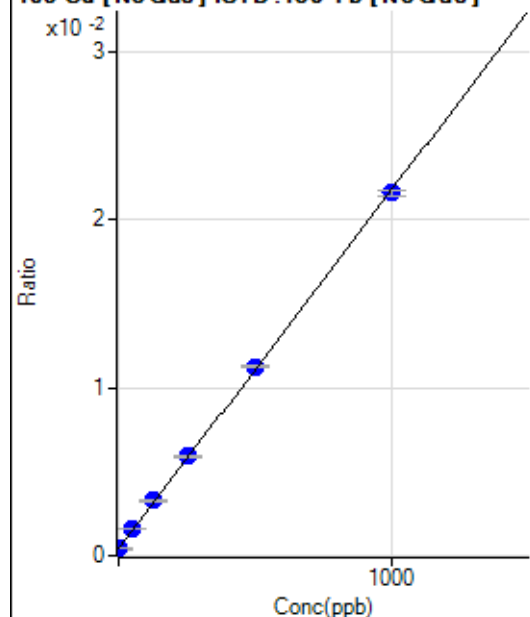
$$DL = 0.005801$$

$$BEC = 0.01511$$

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	3603.38	0.0004	P	5.4
2	☐	1.000	2.593	4234.09	0.0005	P	0.6
3	☐	50.000	54.031	14477.48	0.0016	P	1.2
4	☐	125.000	133.982	30158.61	0.0033	P	1.2
5	☐	250.000	258.391	56645.12	0.0059	P	2.4
6	☐	500.000	508.609	109394.82	0.0113	P	1.9
7	☐	1000.000	992.272	210685.03	0.0216	P	1.8
8	☐			4020.15	0.0004	P	10.0

$$y = 2.1357\text{E-}005 * x + 4.0941\text{E-}004$$

R = 0.9999

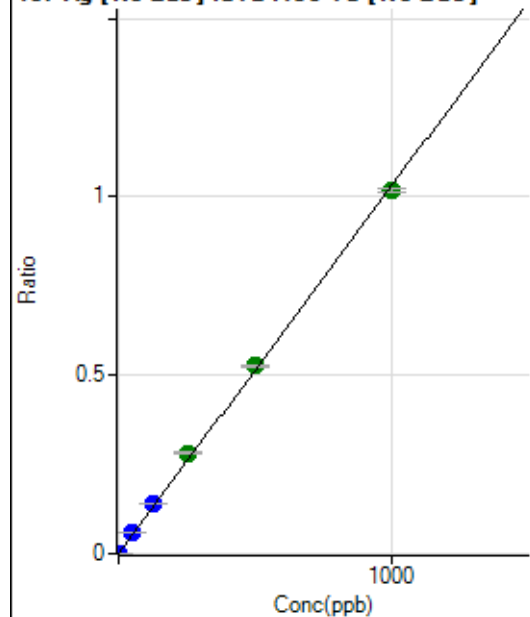
DL = 3.119

BEC = 19.17

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	94.45	0.0000	P	21.8
2	☐	1.000	1.015	9614.72	0.0011	P	2.3
3	☐	50.000	55.399	528568.68	0.0571	P	0.7
4	☐	125.000	137.738	1308176.57	0.1419	P	0.6
5	☐	250.000	273.294	2689498.17	0.2815	A	1.2
6	☐	500.000	510.894	5106920.08	0.5262	A	0.4
7	☐	1000.000	986.868	9914189.11	1.0164	A	1.0
8	☐			3656.15	0.0004	P	18.2

$$y = 0.0010 * x + 1.0644\text{E-}005$$

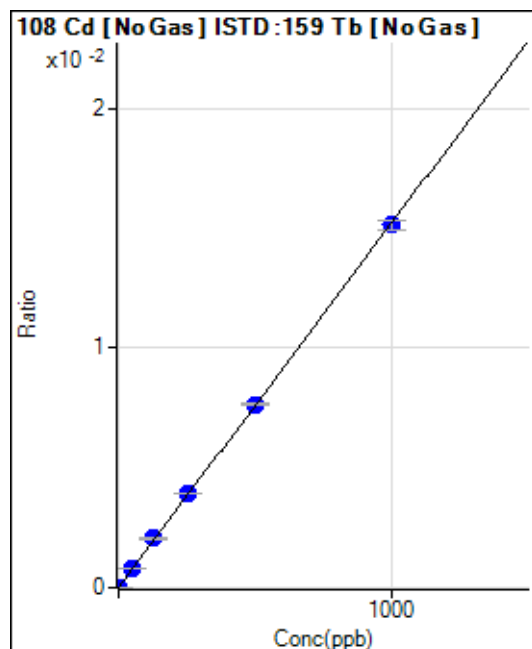
R = 0.9996

DL = 0.006755

BEC = 0.01033

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	51.39	0.0000	P	11.9
2	☐	1.000	0.845	170.84	0.0000	P	27.2
3	☐	50.000	53.013	7521.58	0.0008	P	3.7
4	☐	125.000	135.027	18988.27	0.0021	P	1.9
5	☐	250.000	258.796	37668.21	0.0039	P	1.1
6	☐	500.000	502.123	74181.88	0.0076	P	0.8
7	☐	1000.000	995.335	147709.23	0.0151	P	2.5
8	☐			163.89	0.0000	P	9.3

$$y = 1.5211\text{E-}005 * x + 5.8723\text{E-}006$$

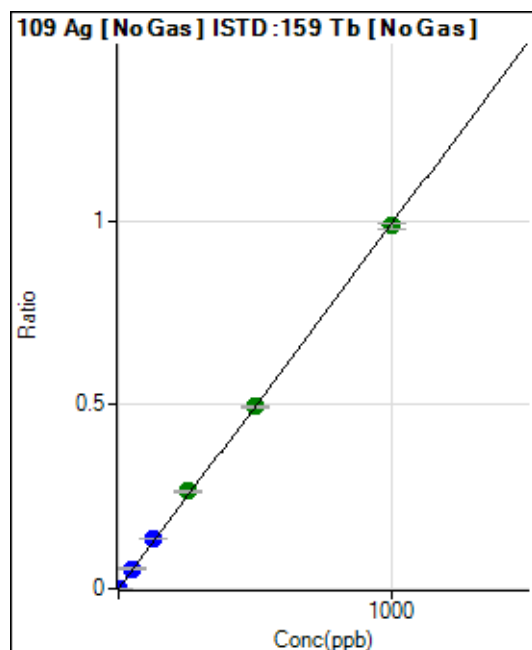
$$R = 0.9999$$

$$DL = 0.1378$$

$$BEC = 0.3861$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	66.67	0.0000	P	25.9
2	☐	1.000	0.982	8936.53	0.0010	P	2.8
3	☐	50.000	54.950	504379.99	0.0545	P	1.6
4	☐	125.000	137.540	1256670.22	0.1363	P	2.4
5	☐	250.000	267.194	2530331.59	0.2648	A	1.2
6	☐	500.000	498.384	4793706.88	0.4940	A	2.0
7	☐	1000.000	994.695	9615430.94	0.9859	A	1.5
8	☐			3275.50	0.0003	P	15.5

$$y = 9.9111\text{E-}004 * x + 7.6454\text{E-}006$$

$$R = 0.9998$$

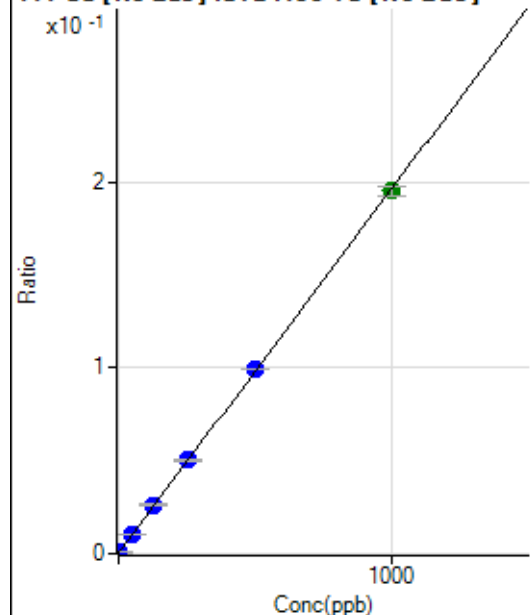
$$DL = 0.005983$$

$$BEC = 0.007714$$

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	2530.84	0.0003	P	5.6
2	☐	1.000	1.205	4770.82	0.0005	P	0.3
3	☐	50.000	53.331	99472.74	0.0107	P	1.1
4	☐	125.000	133.111	243199.89	0.0264	P	2.1
5	☐	250.000	254.775	479913.07	0.0502	P	1.1
6	☐	500.000	505.380	964239.79	0.0994	P	0.7
7	☐	1000.000	994.936	1904711.31	0.1953	A	2.9
8	☐			3471.64	0.0004	P	10.9

$$y = 1.9602\text{E-}004 * x + 2.8755\text{E-}004$$

$$R = 0.9999$$

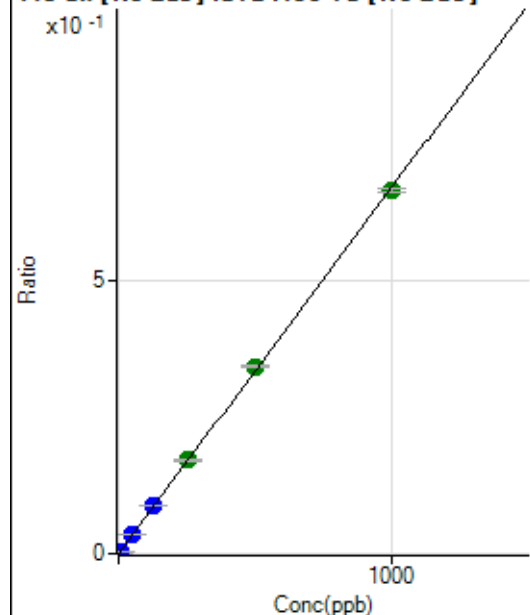
$$DL = 0.2482$$

$$BEC = 1.467$$

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	1005.62	0.0001	P	5.5
2	☐	5.000	5.205	32692.60	0.0036	P	2.5
3	☐	50.000	52.629	326437.52	0.0353	P	1.8
4	☐	125.000	131.631	811140.27	0.0880	P	2.9
5	☐	250.000	256.192	1635196.81	0.1712	A	2.2
6	☐	500.000	512.130	3319680.04	0.3420	A	1.7
7	☐	1000.000	991.426	6457435.08	0.6620	A	0.9
8	☐			3731.17	0.0004	P	5.7

$$y = 6.6765\text{E-}004 * x + 1.1446\text{E-}004$$

$$R = 0.9999$$

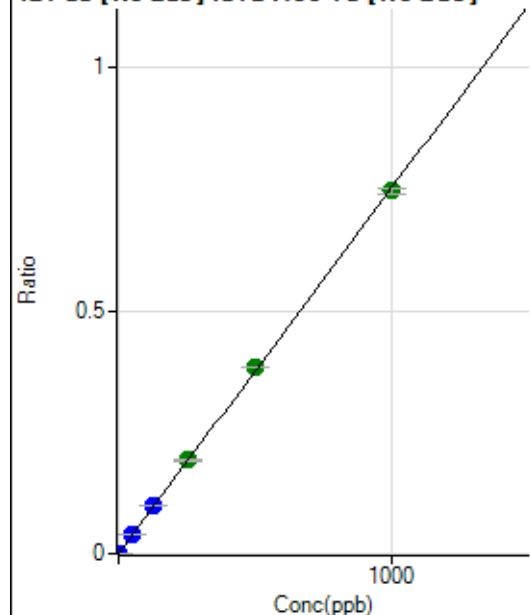
$$DL = 0.02828$$

$$BEC = 0.1714$$

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	77.78	0.0000	P	42.1
2	☐	2.000	2.060	14202.25	0.0016	P	0.9
3	☐	50.000	51.350	357935.82	0.0387	P	2.9
4	☐	125.000	130.629	906473.96	0.0983	P	1.8
5	☐	250.000	256.018	1841149.87	0.1927	A	1.4
6	☐	500.000	510.094	3726163.15	0.3839	A	0.7
7	☐	1000.000	992.677	7287513.44	0.7472	A	1.3
8	☐			6824.11	0.0007	P	2.2

$$y = 7.5267\text{E-}004 * x + 9.0121\text{E-}006$$

$$R = 0.9999$$

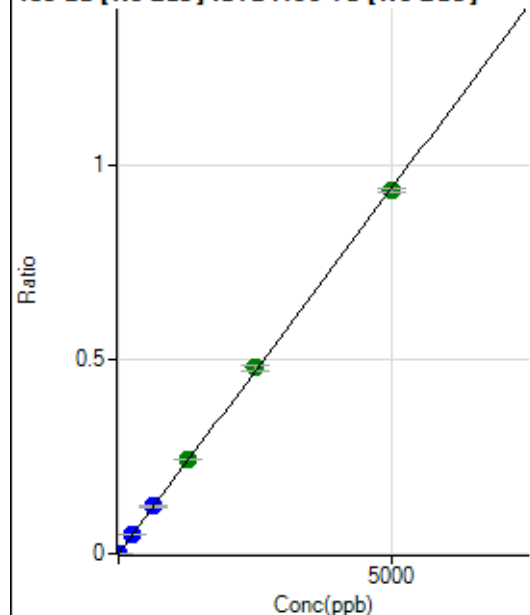
$$DL = 0.01513$$

$$BEC = 0.01197$$

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	19.45	0.0000	P	32.4
2	☐	10.000	9.979	17111.31	0.0019	P	3.3
3	☐	250.000	257.377	448277.49	0.0484	P	2.0
4	☐	625.000	647.215	1122061.96	0.1217	P	2.3
5	☐	1250.000	1291.199	2320212.08	0.2428	A	1.6
6	☐	2500.000	2540.485	4636561.35	0.4778	A	2.8
7	☐	5000.000	4966.312	9111518.09	0.9340	A	1.1
8	☐			3914.56	0.0004	P	6.9

$$y = 1.8807\text{E-}004 * x + 2.2430\text{E-}006$$

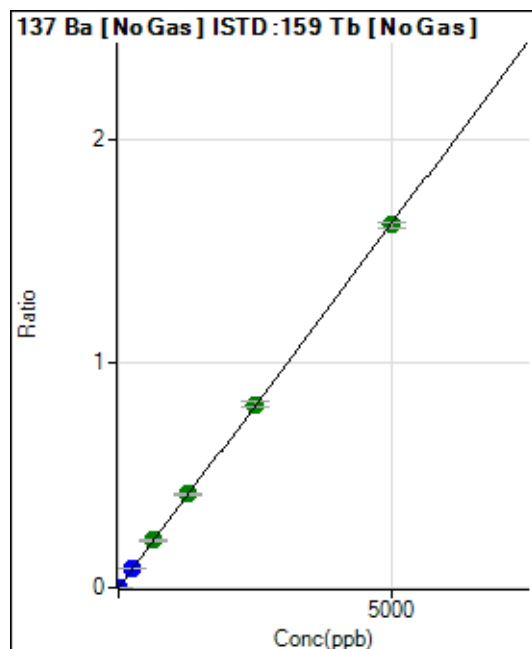
$$R = 0.9999$$

$$DL = 0.01159$$

$$BEC = 0.01193$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	44.44	0.0000	P	73.5
2	☐	10.000	9.860	29176.60	0.0032	P	2.9
3	☐	250.000	255.940	768907.14	0.0830	P	1.5
4	☐	625.000	648.760	1940322.44	0.2105	A	1.5
5	☐	1250.000	1280.946	3970442.80	0.4156	A	1.3
6	☐	2500.000	2514.039	7914662.68	0.8156	A	2.8
7	☐	5000.000	4981.977	15766838.55	1.6162	A	1.6
8	☐			6632.38	0.0007	P	9.9

$$y = 3.2441\text{E-}004 * x + 5.1814\text{E-}006$$

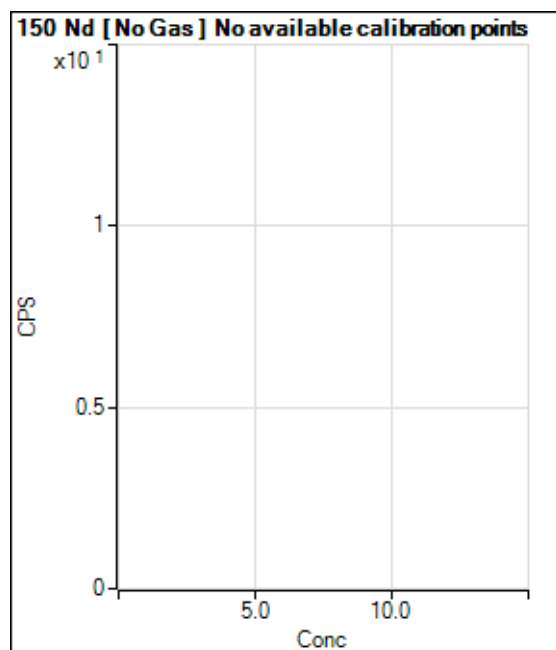
$$R = 1.0000$$

$$DL = 0.03524$$

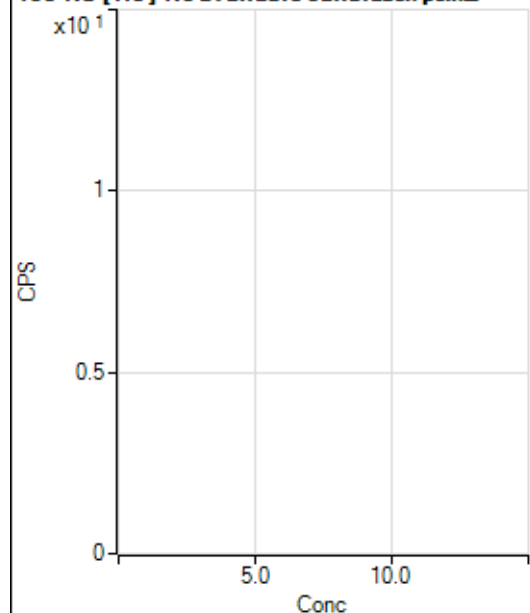
$$BEC = 0.01597$$

Weight: <None>

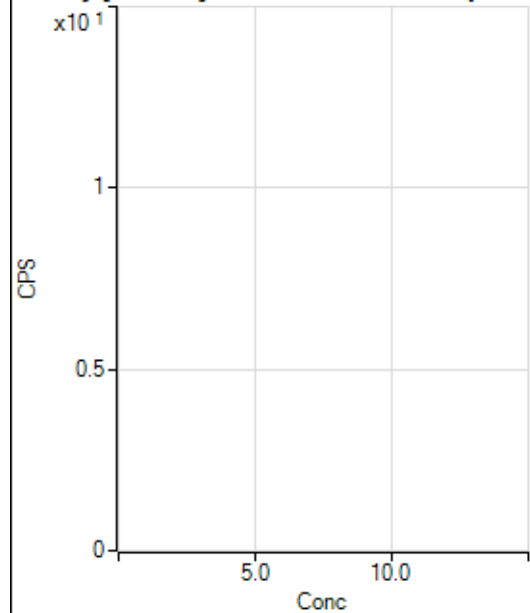
Min Conc: 0



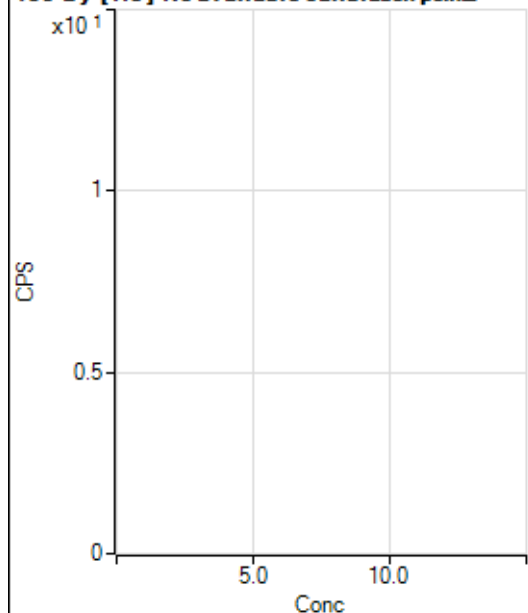
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			11.11		P	34.6
2	☐			8.89		P	86.6
3	☐			44.44		P	22.9
4	☐			60.00		P	40.1
5	☐			120.00		P	25.5
6	☐			220.01		P	27.8
7	☐			435.57		P	23.8
8	☐			73.33		P	9.1

150 Nd [He] No available calibration points

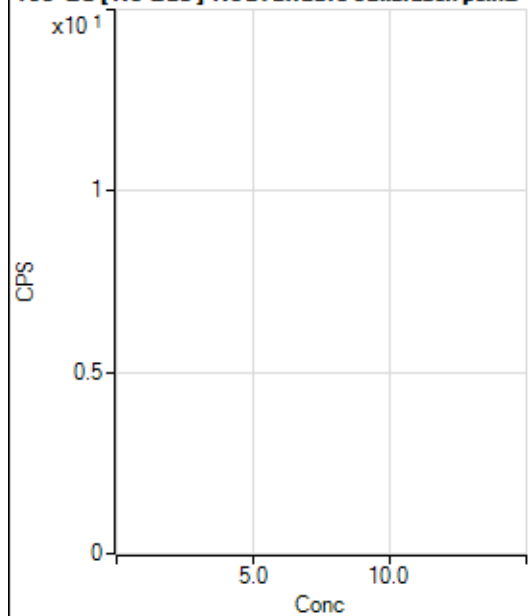
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	100.1
2	☐			2.22		P	86.6
3	☐			4.44		P	43.4
4	☐			7.78		P	49.5
5	☐			5.56		P	34.7
6	☐			13.33		P	25.0
7	☐			34.44		P	34.0
8	☐			17.78		P	47.2

156 Dy [No Gas] No available calibration points

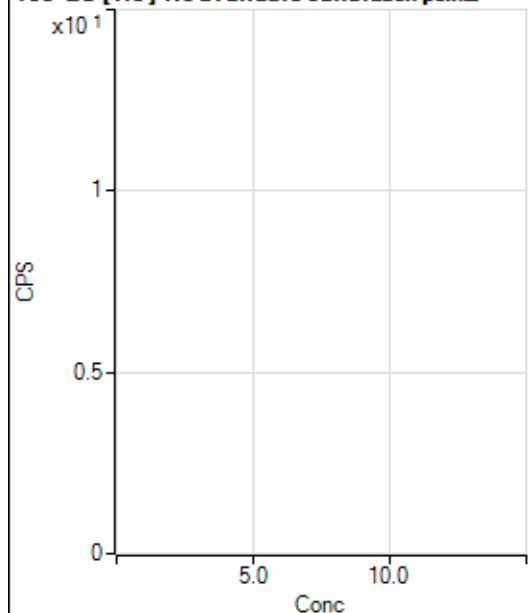
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			16.67		P	50.0
2	☐			19.44		P	49.5
3	☐			25.00		P	57.7
4	☐			44.44		P	43.3
5	☐			102.78		P	54.0
6	☐			169.45		P	2.8
7	☐			416.69		P	5.3
8	☐			1188.98		P	10.2

156 Dy [He] No available calibration points

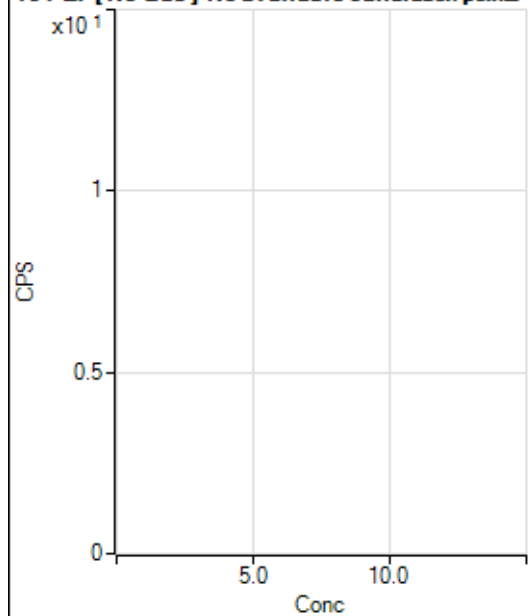
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.56		P	91.6
2	☐			2.22		P	86.6
3	☐			15.56		P	32.7
4	☐			22.22		P	48.2
5	☐			51.11		P	15.1
6	☐			78.89		P	23.3
7	☐			151.11		P	8.4
8	☐			614.47		P	7.8

160 Gd [No Gas] Noavailable calibration poin_

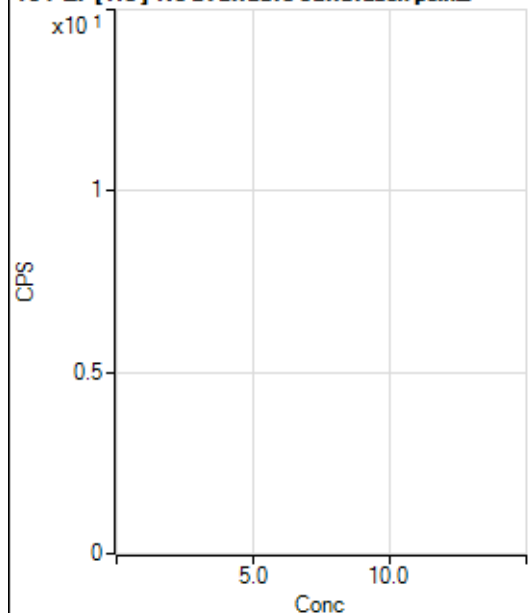
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			33.33		P	25.0
2	☐			75.00		P	22.2
3	☐			44.45		P	28.7
4	☐			86.11		P	14.8
5	☐			119.45		P	20.1
6	☐			163.89		P	28.9
7	☐			322.24		P	16.6
8	☐			1027.85		P	15.9

160 Gd [He] No available calibration points

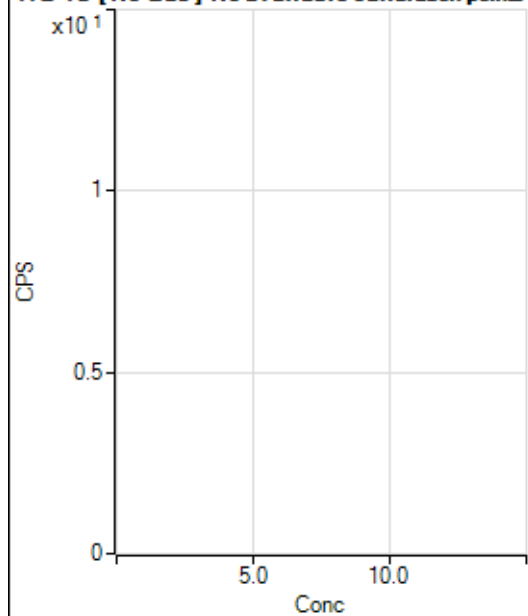
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			82.22		P	20.0
2	☐			67.78		P	15.8
3	☐			85.55		P	8.1
4	☐			87.78		P	17.5
5	☐			94.44		P	8.1
6	☐			121.11		P	23.4
7	☐			203.34		P	17.3
8	☐			683.36		P	2.0

164 Er [No Gas] No available calibration points

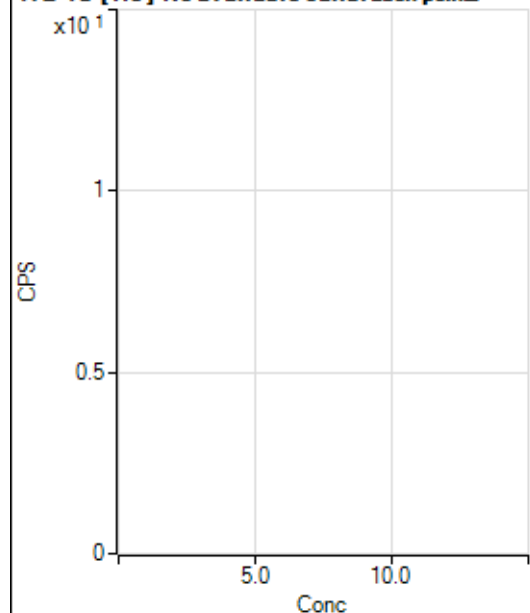
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			63.89		P	64.3
2	☐			55.56		P	45.8
3	☐			77.78		P	43.3
4	☐			77.78		P	43.3
5	☐			83.34		P	26.5
6	☐			97.23		P	32.5
7	☐			127.78		P	26.4
8	☐			219.45		P	25.3

164 Er [He] No available calibration points

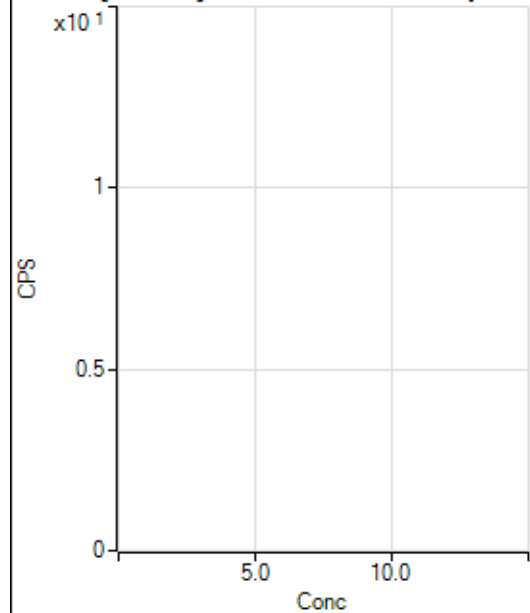
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			25.56		P	19.9
2	☐			27.78		P	48.5
3	☐			35.56		P	42.3
4	☐			36.67		P	18.2
5	☐			30.00		P	22.2
6	☐			36.67		P	27.3
7	☐			60.00		P	20.0
8	☐			91.11		P	11.8

172 Yb [No Gas] No available calibration points

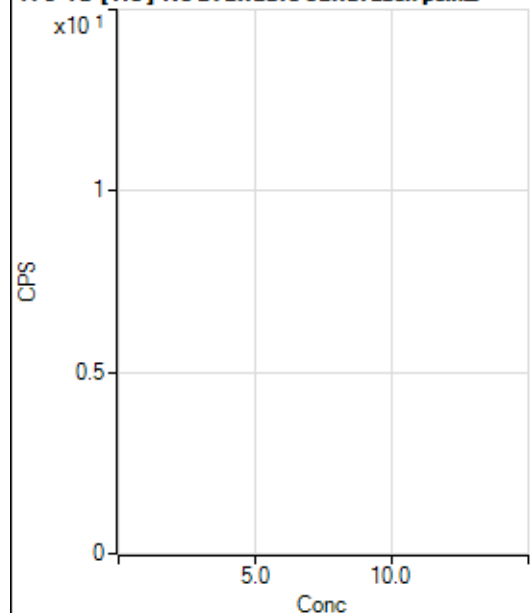
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			19.45		P	24.7
2	☐			30.56		P	103.3
3	☐			44.45		P	10.8
4	☐			58.33		P	37.8
5	☐			50.00		P	57.7
6	☐			41.67		P	20.0
7	☐			61.11		P	15.7
8	☐			111.12		P	43.3

172 Yb [He] No available calibration points

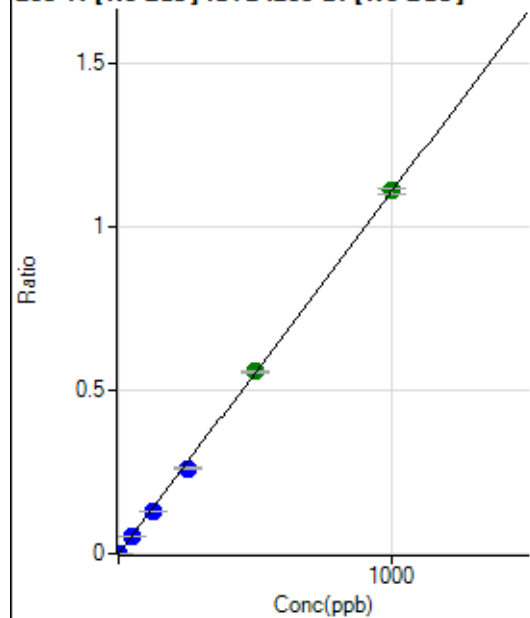
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			18.52		P	62.4
2	☐			16.67		P	NaN
3	☐			14.82		P	21.7
4	☐			16.67		P	33.3
5	☐			7.41		P	43.2
6	☐			31.48		P	20.4
7	☐			31.48		P	20.4
8	☐			72.22		P	53.8

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			916.73		P	9.8
2	☐			991.73		P	14.6
3	☐			2030.78		P	5.3
4	☐			3753.42		P	4.8
5	☐			6824.15		P	5.9
6	☐			12439.51		P	1.7
7	☐			24247.82		P	1.6
8	☐			1094.52		P	8.4

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5330.79		P	6.6
2	☐			5414.20		P	5.4
3	☐			6071.87		P	5.1
4	☐			7020.51		P	3.7
5	☐			8652.98		P	4.8
6	☐			11347.61		P	2.5
7	☐			17237.41		P	2.2
8	☐			5454.91		P	7.7

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	536.14	0.0001	P	18.9
2	☐	1.000	0.896	5151.17	0.0011	P	1.2
3	☐	50.000	45.853	242659.49	0.0509	P	1.6
4	☐	125.000	117.198	614768.63	0.1298	P	2.3
5	☐	250.000	235.633	1252544.01	0.2609	P	3.1
6	☐	500.000	503.088	2711504.77	0.5568	A	1.5
7	☐	1000.000	1003.230	5317199.95	1.1103	A	1.2
8	☐			1708.49	0.0004	P	17.0

$$y = 0.0011 * x + 1.2499E-004$$

$$R = 0.9999$$

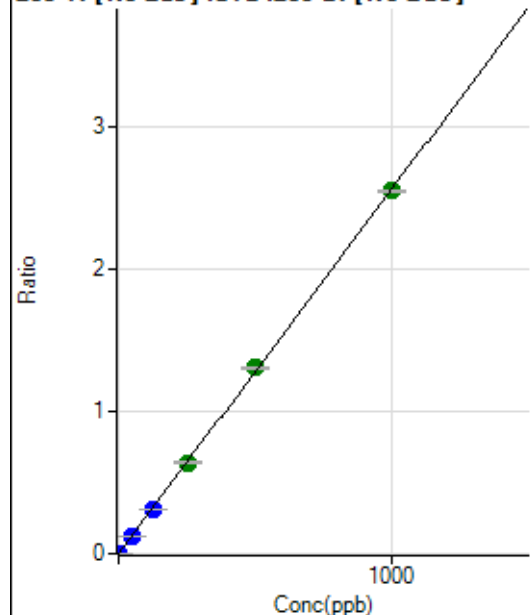
$$DL = 0.0641$$

$$BEC = 0.1129$$

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	1302.88	0.0003	P	3.8
2	☐	1.000	0.944	12514.69	0.0027	P	1.7
3	☐	50.000	46.370	566720.64	0.1188	P	1.0
4	☐	125.000	121.058	1466502.63	0.3097	P	2.1
5	☐	250.000	248.608	3052278.76	0.6356	A	2.3
6	☐	500.000	509.626	6343235.56	1.3026	A	1.2
7	☐	1000.000	996.209	12193346.97	2.5460	A	0.7
8	☐			3995.18	0.0009	P	13.6

$$y = 0.0026 * x + 3.0108E-004$$

$$R = 0.9999$$

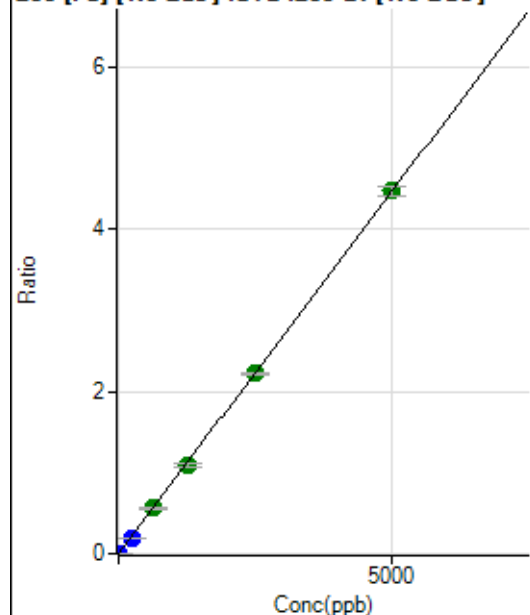
$$DL = 0.01338$$

$$BEC = 0.1178$$

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	655.59	0.0002	P	11.0
2	☐	1.000	0.877	4311.93	0.0009	P	1.8
3	☐	250.000	221.965	945722.06	0.1983	P	2.4
4	☐	625.000	624.680	2641360.39	0.5578	A	3.8
5	☐	1250.000	1217.578	5218696.93	1.0870	A	3.4
6	☐	2500.000	2486.962	10810473.97	2.2201	A	1.1
7	☐	5000.000	5016.066	21441276.40	4.4776	A	2.9
8	☐			10947.41	0.0025	P	5.5

$$y = 8.9262E-004 * x + 1.5222E-004$$

$$R = 1.0000$$

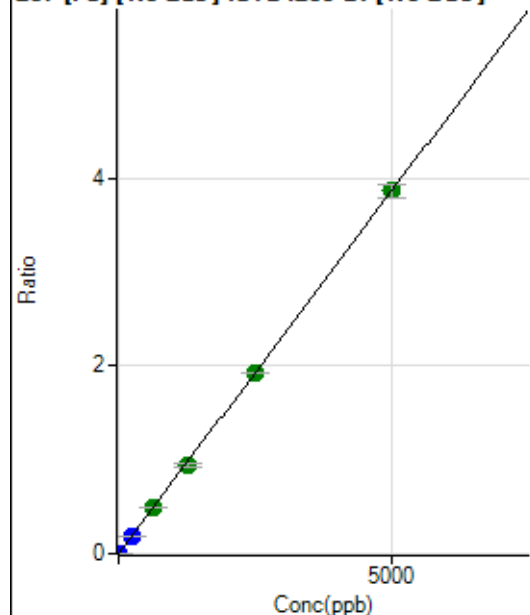
$$DL = 0.05614$$

$$BEC = 0.1705$$

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	496.32	0.0001	P	11.9
2	☐	1.000	0.931	3848.80	0.0008	P	0.8
3	☐	250.000	230.416	849474.04	0.1781	P	1.6
4	☐	625.000	627.010	2294267.01	0.4844	A	1.1
5	☐	1250.000	1232.705	4571138.18	0.9522	A	4.2
6	☐	2500.000	2499.108	9400040.25	1.9304	A	0.3
7	☐	5000.000	5005.498	18513964.07	3.8663	A	3.4
8	☐			9729.77	0.0022	P	11.7

$$y = 7.7239\text{E-}004 * x + 1.1526\text{E-}004$$

$$R = 1.0000$$

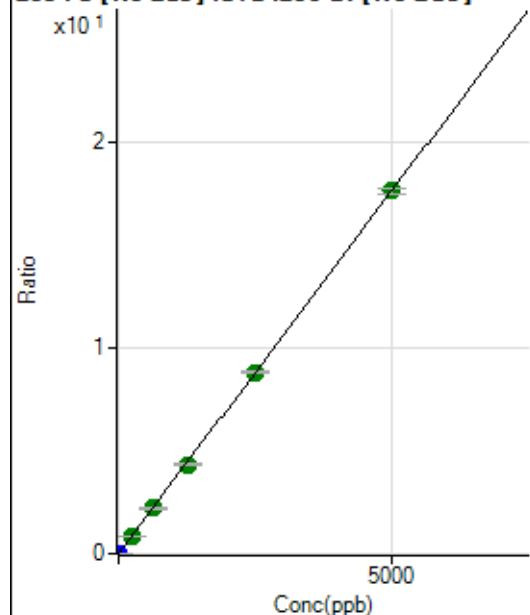
$$DL = 0.05331$$

$$BEC = 0.1492$$

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	2416.81	0.0006	P	6.5
2	☐	1.000	0.906	17293.74	0.0037	P	1.8
3	☐	250.000	236.493	3975131.41	0.8332	A	0.6
4	☐	625.000	627.681	10468152.40	2.2104	A	1.8
5	☐	1250.000	1229.787	20792127.72	4.3303	A	2.8
6	☐	2500.000	2500.459	42871438.57	8.8039	A	0.9
7	☐	5000.000	5005.164	84391059.99	17.6223	A	1.8
8	☐			44030.16	0.0100	P	8.5

$$y = 0.0035 * x + 5.6003\text{E-}004$$

$$R = 1.0000$$

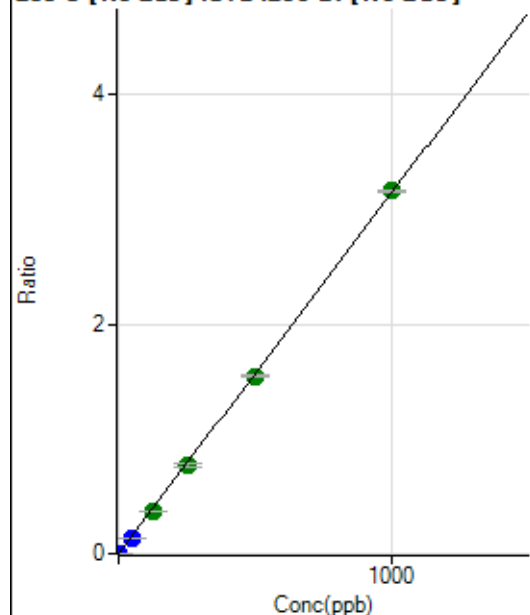
$$DL = 0.03087$$

$$BEC = 0.1591$$

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	33.33	0.0000	P	32.5
2	☐	1.000	0.888	12898.63	0.0028	P	2.7
3	☐	50.000	44.740	670209.36	0.1405	P	1.7
4	☐	125.000	117.724	1750852.49	0.3697	A	1.3
5	☐	250.000	245.954	3708149.08	0.7724	A	3.4
6	☐	500.000	492.420	7529713.10	1.5463	A	1.4
7	☐	1000.000	1005.974	15128735.58	3.1590	A	0.8
8	☐			2872.64	0.0007	P	18.5

$$y = 0.0031 * x + 7.8237E-006$$

$$R = 0.9999$$

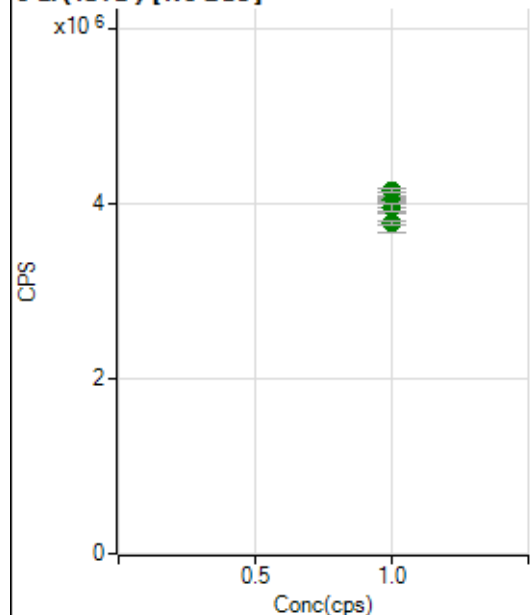
$$DL = 0.002427$$

$$BEC = 0.002491$$

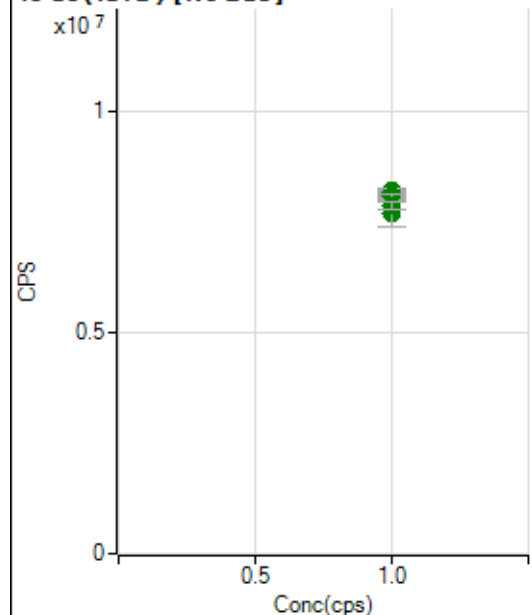
Weight: <None>

Min Conc: 0

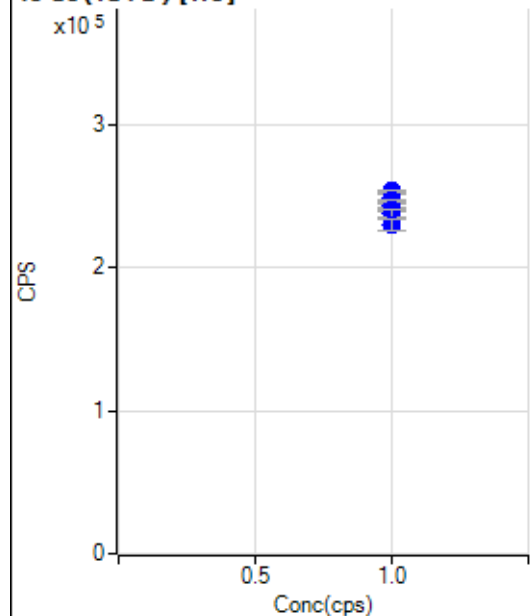
6 Li (ISTD) [No Gas]



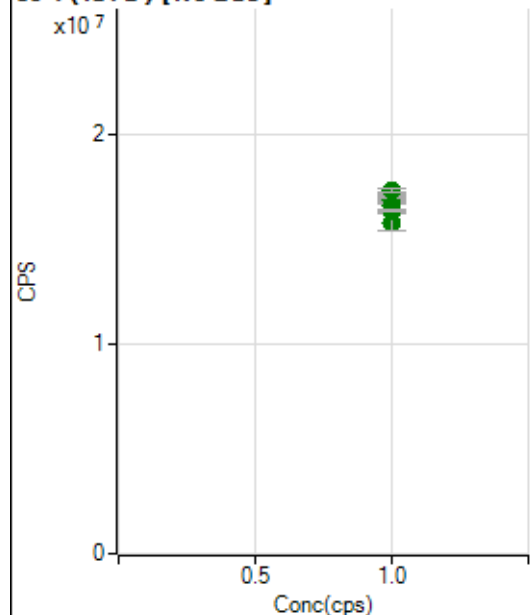
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3776681.07		A	5.6
2	☐	1.000		3997713.86		A	2.2
3	☐	1.000		4040953.58		A	1.3
4	☐	1.000		4005824.17		A	2.1
5	☐	1.000		4053021.61		A	1.4
6	☐	1.000		4146074.14		A	1.2
7	☐	1.000		3958783.10		A	2.0
8	☐	1.000		3785987.75		A	1.0

45 Sc (ISTD) [No Gas]

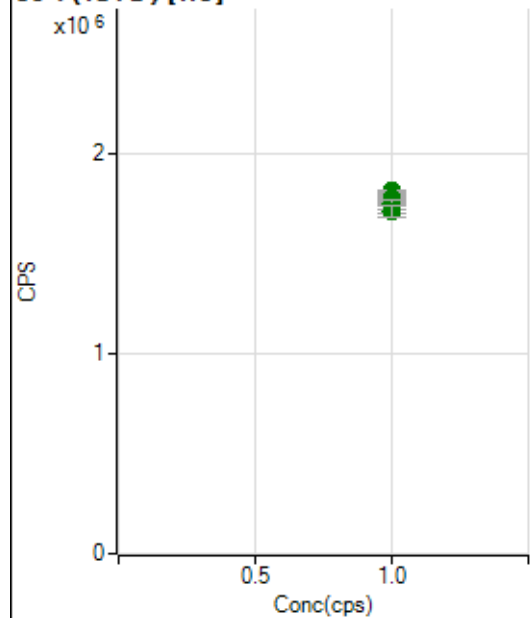
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7681973.77		A	8.0
2	☐	1.000		7974868.84		A	1.3
3	☐	1.000		8187667.80		A	1.3
4	☐	1.000		8101120.51		A	1.1
5	☐	1.000		8107810.30		A	2.2
6	☐	1.000		8170400.57		A	2.1
7	☐	1.000		8061565.99		A	1.4
8	☐	1.000		7875259.95		A	2.2

45 Sc (ISTD) [He]

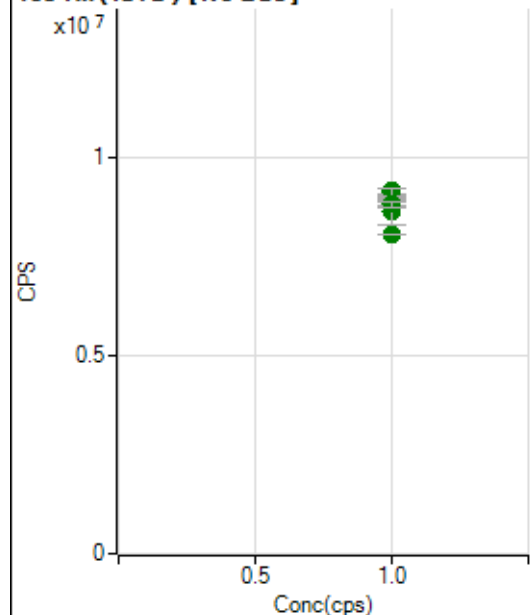
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		243733.09		P	1.0
2	☐	1.000		249501.84		P	2.0
3	☐	1.000		254021.43		P	0.7
4	☐	1.000		246118.23		P	0.4
5	☐	1.000		247587.54		P	0.6
6	☐	1.000		240549.19		P	0.9
7	☐	1.000		238257.72		P	1.9
8	☐	1.000		230037.55		P	3.7

89 Y (ISTD) [No Gas]

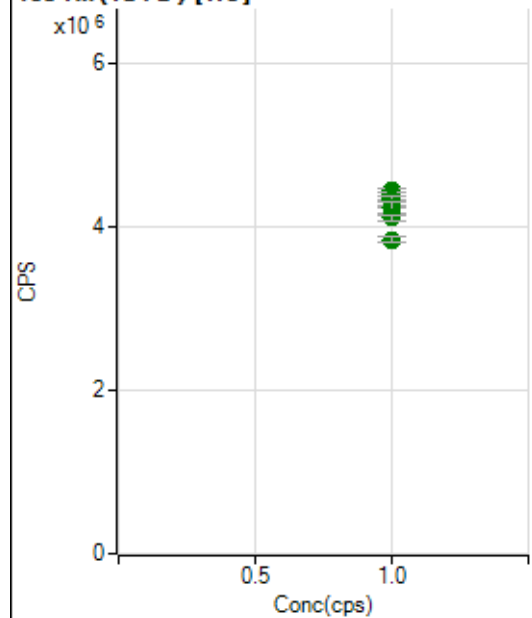
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		15785396.29		A	5.5
2	☐	1.000		16546465.73		A	1.4
3	☐	1.000		16956215.72		A	2.1
4	☐	1.000		16866908.22		A	0.5
5	☐	1.000		16843016.56		A	0.7
6	☐	1.000		16977580.30		A	0.8
7	☐	1.000		17277617.80		A	1.1
8	☐	1.000		16334299.20		A	0.4

89 Y (ISTD) [He]

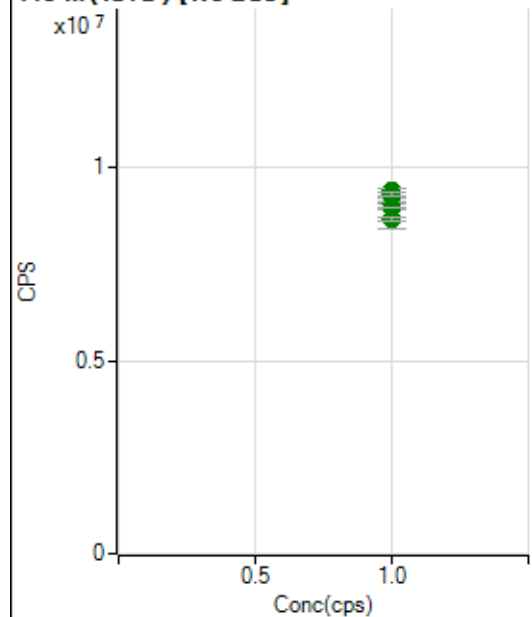
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1750733.43		A	0.3
2	☐	1.000		1794136.87		A	0.5
3	☐	1.000		1813378.91		A	0.8
4	☐	1.000		1777918.25		A	0.1
5	☐	1.000		1765690.58		A	0.8
6	☐	1.000		1753547.63		A	1.4
7	☐	1.000		1712064.91		A	0.7
8	☐	1.000		1713609.64		A	3.3

103 Rh (ISTD) [No Gas]

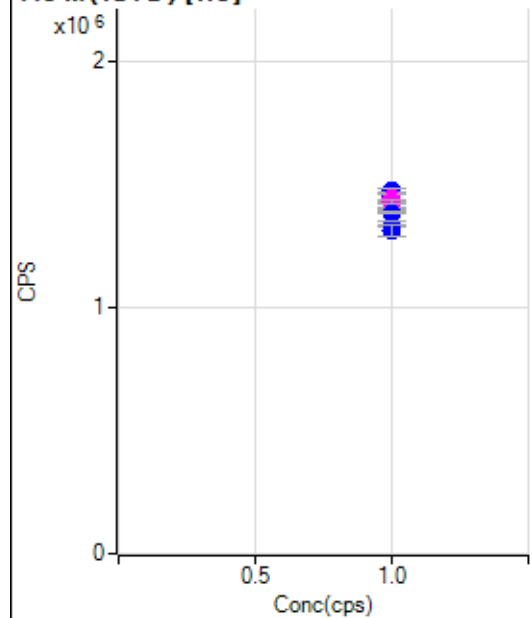
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8652827.62		A	7.9
2	☐	1.000		9074907.49		A	0.3
3	☐	1.000		9154980.76		A	1.4
4	☐	1.000		8891654.97		A	2.3
5	☐	1.000		8957539.44		A	1.0
6	☐	1.000		9127766.61		A	2.2
7	☐	1.000		8813641.43		A	1.5
8	☐	1.000		8066516.68		A	0.1

103 Rh (ISTD) [He]

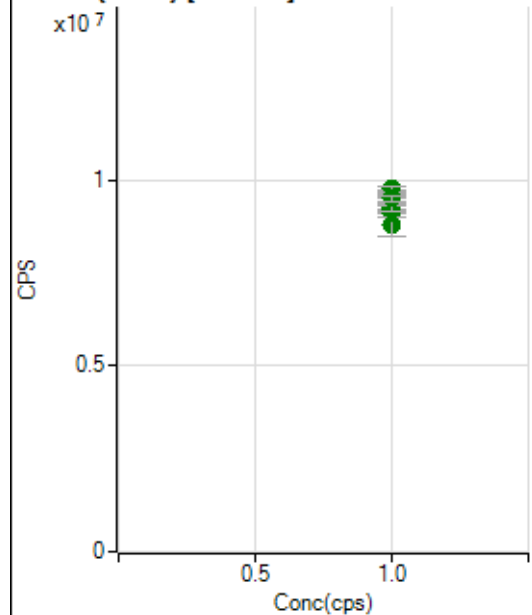
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4233415.11		A	0.4
2	☐	1.000		4351611.50		A	1.3
3	☐	1.000		4431686.88		A	1.2
4	☐	1.000		4386331.32		A	1.0
5	☐	1.000		4328945.42		A	1.4
6	☐	1.000		4222901.78		A	3.2
7	☐	1.000		4101058.86		A	1.9
8	☐	1.000		3834018.59		A	2.0

115 In (ISTD) [No Gas]

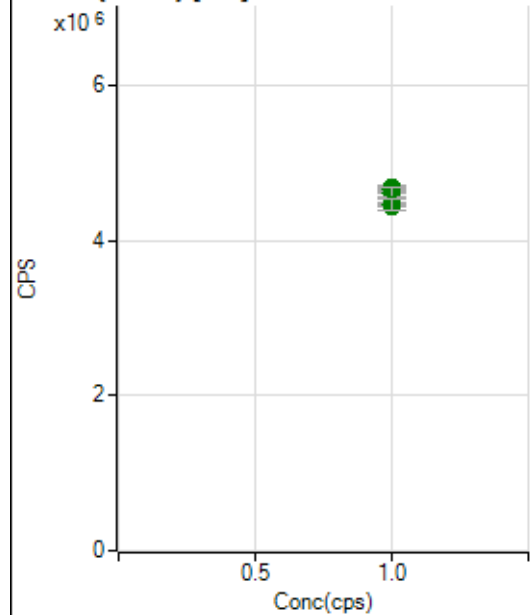
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8656394.82		A	5.9
2	☐	1.000		9101779.49		A	2.8
3	☐	1.000		9393224.78		A	1.2
4	☐	1.000		9073042.06		A	0.7
5	☐	1.000		9053690.15		A	1.6
6	☐	1.000		9308570.62		A	1.2
7	☐	1.000		8955195.04		A	0.3
8	☐	1.000		8663442.64		A	1.5

115 In (ISTD) [He]

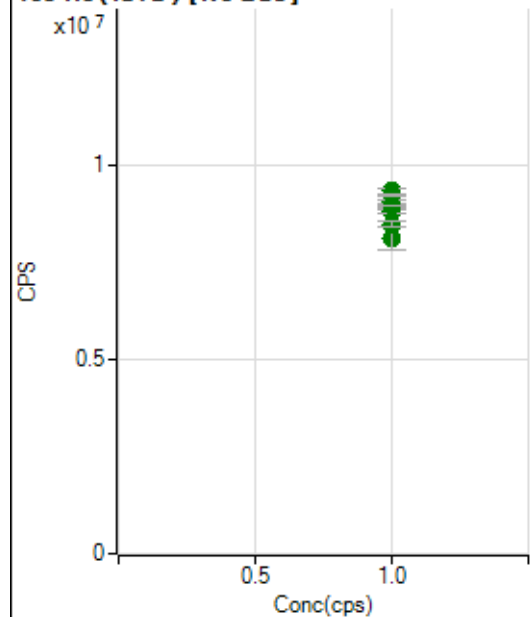
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1402288.89		P	0.7
2	☐	1.000		1454802.14		P	1.7
3	☐	1.000		1476108.25		P	1.1
4	☐	1.000		1448164.00		M	2.5
5	☐	1.000		1434870.97		M	1.1
6	☐	1.000		1386069.32		P	0.6
7	☐	1.000		1340409.79		P	1.7
8	☐	1.000		1314215.96		P	3.8

159 Tb (ISTD) [No Gas]

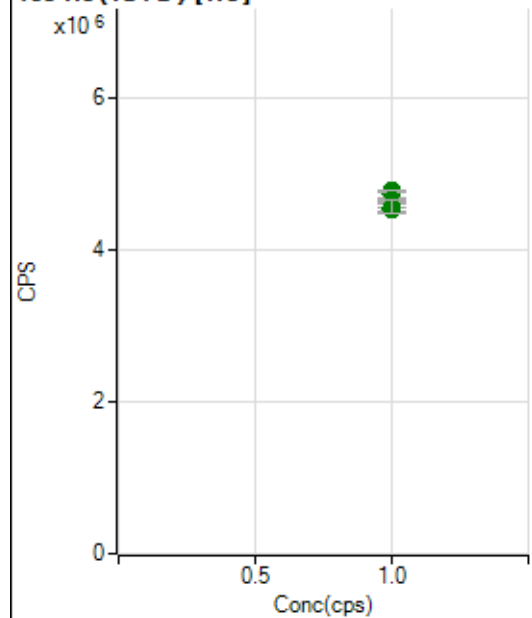
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8798604.18		A	6.8
2	☐	1.000		9109648.55		A	2.3
3	☐	1.000		9261719.45		A	1.8
4	☐	1.000		9220492.29		A	1.6
5	☐	1.000		9555247.71		A	1.2
6	☐	1.000		9705173.19		A	0.5
7	☐	1.000		9754795.62		A	1.5
8	☐	1.000		9491204.03		A	1.6

159 Tb (ISTD) [He]

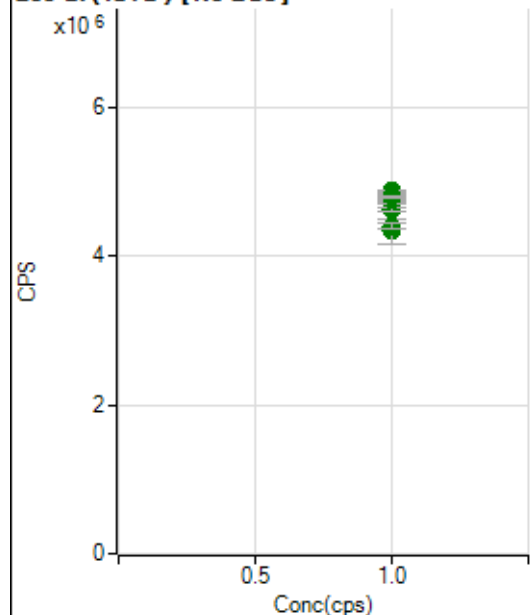
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4440392.40		A	0.6
2	☐	1.000		4633316.22		A	1.2
3	☐	1.000		4677179.69		A	1.5
4	☐	1.000		4603498.06		A	1.8
5	☐	1.000		4654551.49		A	0.9
6	☐	1.000		4623364.65		A	2.4
7	☐	1.000		4473075.59		A	0.4
8	☐	1.000		4460976.81		A	3.6

165 Ho (ISTD) [No Gas]

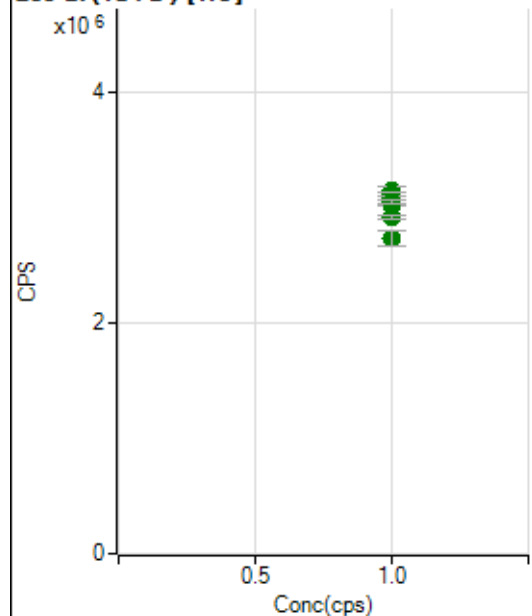
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8113824.49		A	7.8
2	☐	1.000		8478830.66		A	1.9
3	☐	1.000		8792606.01		A	1.1
4	☐	1.000		9075372.77		A	1.1
5	☐	1.000		8945875.81		A	1.4
6	☐	1.000		9332714.01		A	1.6
7	☐	1.000		9237952.03		A	0.5
8	☐	1.000		8947708.79		A	0.1

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4521892.88		A	0.8
2	☐	1.000		4635979.72		A	1.8
3	☐	1.000		4712618.37		A	1.5
4	☐	1.000		4599658.37		A	2.3
5	☐	1.000		4766758.75		A	0.6
6	☐	1.000		4642192.33		A	1.5
7	☐	1.000		4605476.95		A	0.6
8	☐	1.000		4551835.35		A	3.8

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4328623.06		A	7.4
2	☐	1.000		4612000.38		A	0.9
3	☐	1.000		4771197.78		A	2.3
4	☐	1.000		4736440.97		A	1.3
5	☐	1.000		4803915.38		A	2.7
6	☐	1.000		4869474.54		A	0.4
7	☐	1.000		4789302.60		A	0.8
8	☐	1.000		4398540.63		A	1.9

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3020704.44		A	0.9
2	☐	1.000		3137395.82		A	2.3
3	☐	1.000		3141140.99		A	2.8
4	☐	1.000		3079983.15		A	1.0
5	☐	1.000		3115555.61		A	1.4
6	☐	1.000		3048057.25		A	1.1
7	☐	1.000		2912429.78		A	1.4
8	☐	1.000		2728529.11		A	5.2

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8110921-MS.b
Acq. Date-Time 2021-11-09 11:30:40
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		10410	104098.39			2.542	5.000
24		106441	1064405.26			3.771	5.000
25		14247	142470.23			3.579	5.000
26		16051	160507.66			4.086	5.000
59		22505	225048.84			2.639	5.000
113		8264	82643.99			2.317	5.000
115		25939	259390.09			2.657	5.000
206		8121	81213.33			1.829	5.000
207		6832	68321.70			1.611	5.000
208		16745	167445.69			1.967	5.000
220		1	9.90			14.462	

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

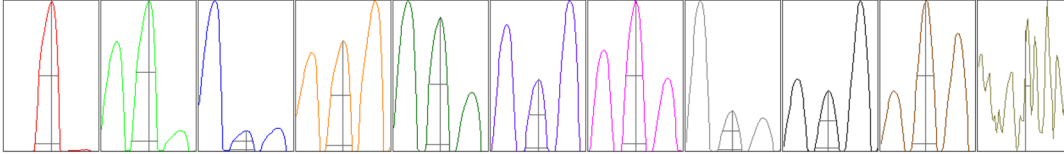
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	10677	10545	10346	10495	9987
24	109206	111326	102650	106867	102154
25	14504	14940	14089	14131	13572
26	16359	16921	15820	16004	15149
59	22919	22960	22335	22770	21539
113	8458	8362	8144	8367	7991
115	26623	26478	25574	26077	24944
206	8267	8167	7986	8243	7943
207	6916	6918	6716	6904	6708
208	17090	16973	16515	16847	16298

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	18593.33	9.05	8.90 - 9.10	
24	185629.14	24.05	23.90 - 24.10	
25	24758.91	25.05	24.90 - 25.10	
26	27861.17	26.00	25.90 - 26.10	
59	41632.50	59.00	58.90 - 59.10	
113	16516.13	113.05	112.90 - 113.10	
115	51541.29	115.05	114.90 - 115.10	
206	15937.29	206.00	205.90 - 206.10	
207	13348.71	206.95	206.90 - 207.10	
208	33310.51	207.95	207.90 - 208.10	
220	1.50	220.05	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.60	0.781	0.900	
24	0.59	0.808	0.900	
25	0.61	0.786	0.900	
26	0.61	0.821	0.900	
59	0.57	0.739	0.900	
113	0.52	0.692	0.900	
115	0.52	0.759	0.900	
206	0.52	0.754	0.900	
207	0.52	0.774	0.900	
208	0.52	0.775	0.900	
220	0.19			

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	7.5 V	Deflect	15.0 V
Extract 2	-205.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-100 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	190 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	1.1 mm	Torch V	-1.1 mm
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EM

Discriminator	4.2 mV	Analog HV	2262 V	Pulse HV	1579 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		5078	50775.09			0.756	
89		16667	166670.04			1.855	
205		21013	210134.57			2.030	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	5132	5079	5035	5094	5048
89	16760	16965	16890	16511	16208
205	21043	21293	21246	21217	20269

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	7.5 V	Deflect	5.0 V
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US EPA Tune Check Report

Extract 2	-205.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-100 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	1.1 mm	Torch V	-1.1 mm		
EM					
Discriminator	4.2 mV	Analog HV	2262 V	Pulse HV	1579 V