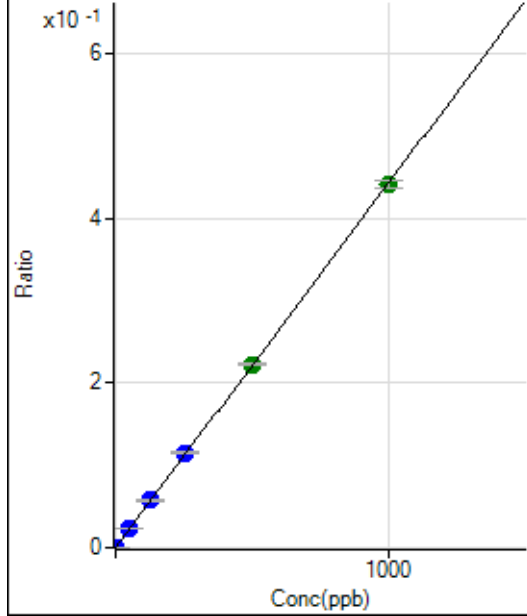


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8072722 MS.b\
Analysis File: P8072722 MS.batch.bin
DA Date-Time: 2022-07-28 16:58:52
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2022-07-27 12:02:24
2	006CALS.d	S02	2022-07-27 12:08:39
3	007CALS.d	S03	2022-07-27 12:11:45
4	008CALS.d	S04	2022-07-27 12:14:54
5	009CALS.d	S05	2022-07-27 12:18:00
6	010CALS.d	S06	2022-07-27 12:21:08
7	011CALS.d	S07	2022-07-27 12:24:14
8	012CALS.d	S08	2022-07-27 12:27:24

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	38.33	0.0000	P	28.8
2	☐	1.000	1.125	3659.59	0.0005	P	2.9
3	☐	50.000	52.656	167808.51	0.0233	P	4.9
4	☐	125.000	129.794	419002.02	0.0574	P	3.0
5	☐	250.000	260.186	803468.09	0.1151	P	2.4
6	☐	500.000	502.789	1523462.24	0.2224	A	1.6
7	☐	1000.000	995.327	3027191.08	0.4403	A	2.1
8	☐			425.37	0.0001	P	20.4

$$y = 4.4238\text{E-}004 * x + 5.1121\text{E-}006$$

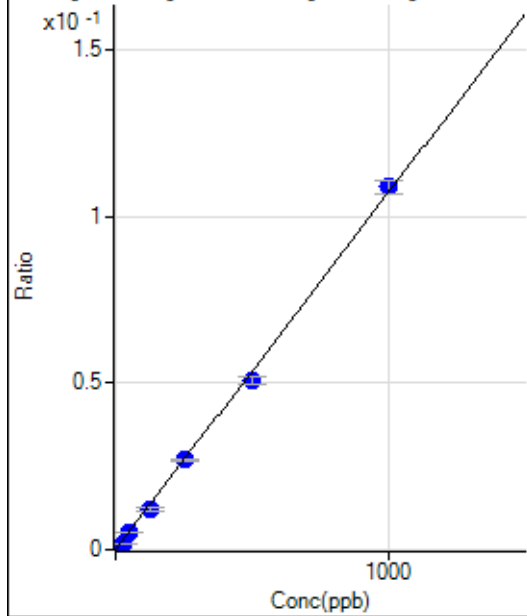
$$R = 0.9999$$

$$DL = 0.01$$

$$BEC = 0.01156$$

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	391.93	0.0001	P	5.8
2	☐	25.000	13.921	11244.12	0.0015	P	4.3
3	☐	50.000	46.392	36235.04	0.0050	P	1.0
4	☐	125.000	113.812	89326.34	0.0122	P	7.4
5	☐	250.000	250.106	187528.89	0.0269	P	1.4
6	☐	500.000	472.544	347004.97	0.0507	P	3.9
7	☐	1000.000	1015.558	748396.42	0.1089	P	3.9
8	☐			63213.69	0.0098	P	8.0

$$y = 1.0717\text{E-}004 * x + 5.2327\text{E-}005$$

$$R = 0.9994$$

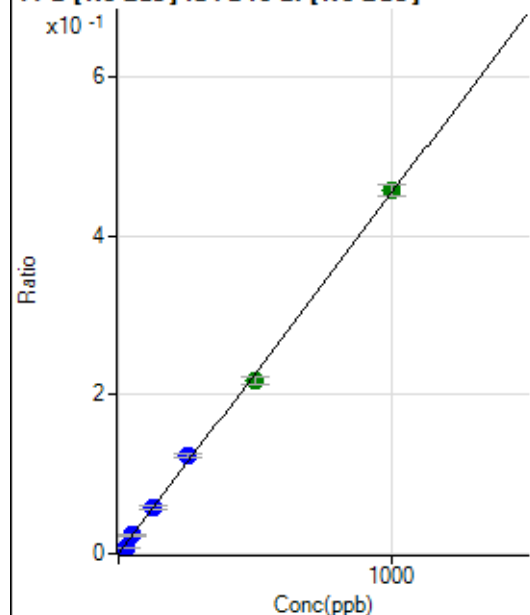
$$DL = 0.08494$$

$$BEC = 0.4883$$

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	1879.09	0.0003	P	2.1
2	☐	25.000	15.314	52452.92	0.0072	P	5.1
3	☐	50.000	50.152	166067.85	0.0230	P	2.4
4	☐	125.000	127.557	424090.13	0.0582	P	7.3
5	☐	250.000	270.532	859517.33	0.1231	P	3.1
6	☐	500.000	478.736	1489006.40	0.2176	A	4.9
7	☐	1000.000	1005.414	3139756.15	0.4567	A	3.3
8	☐			292300.94	0.0452	P	9.5

$$y = 4.5400\text{E-}004 * x + 2.5089\text{E-}004$$

$$R = 0.9994$$

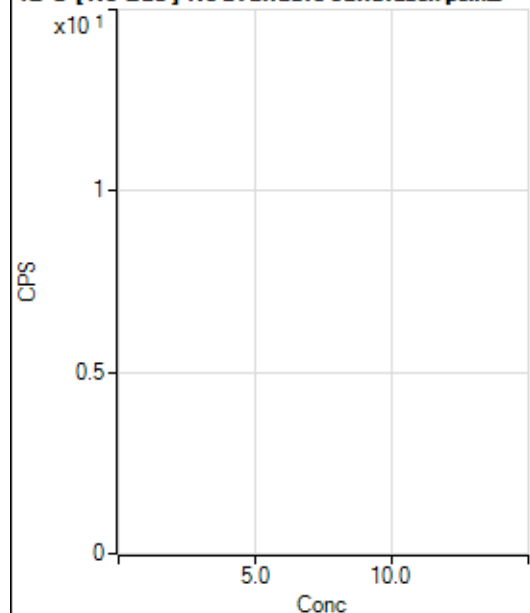
$$DL = 0.03405$$

$$BEC = 0.5526$$

Weight: <None>

Min Conc: 0

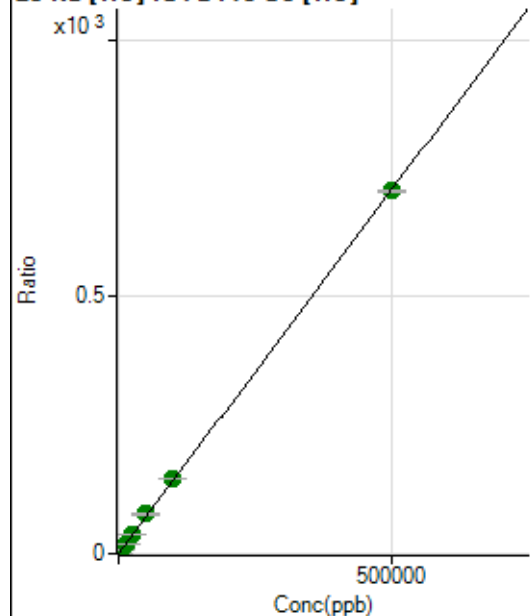
12 C [No Gas] No available calibration points



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐			5473141.22		A	0.7
2	☐			5654936.98		A	0.7
3	☐			6023872.62		A	1.7
4	☐			6466672.89		A	1.7
5	☐			6951977.50		A	3.0
6	☐			7780668.05		A	3.0
7	☐			8130466.33		A	2.9
8	☐			7081749.03		A	2.5

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			54682.95		P	1.1
2	☐			56804.93		P	1.0
3	☐			62263.22		P	1.5
4	☐			67251.72		P	0.4
5	☐			71687.12		P	1.9
6	☐			83887.30		P	0.8
7	☐			87478.11		P	1.6
8	☐			83361.97		P	1.4

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	13756.73	0.0514	P	2.0
2	☐	500.000	518.523	213488.19	0.7859	P	2.1
3	☐	5000.000	5060.306	2015808.16	7.2193	A	7.9
4	☐	12500.000	13419.510	4994122.33	19.0600	A	2.7
5	☐	25000.000	26596.794	9819067.41	37.7255	A	0.5
6	☐	50000.000	54343.359	19631323.36	77.0282	A	4.0
7	☐	100000.00	103256.72	40793877.30	146.3135	A	1.5
8	☐	500000.00	498810.86	209782192.1	706.6118	A	0.4

$$y = 0.0014 * x + 0.0514$$

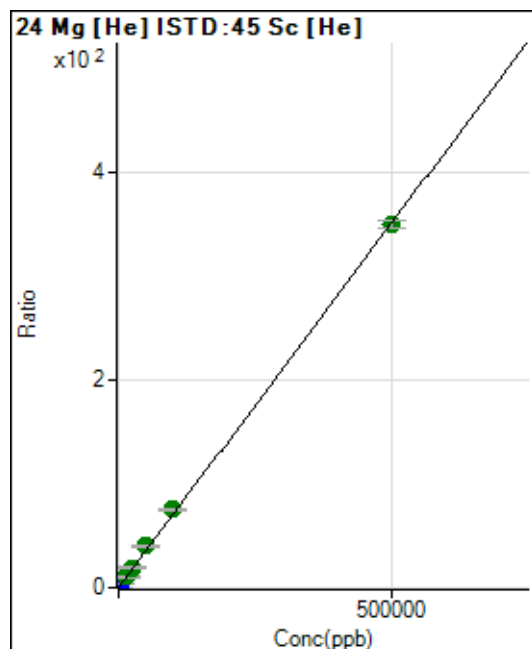
$$R = 0.9999$$

$$DL = 2.224$$

$$BEC = 36.29$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	227.79	0.0009	P	2.4
2	☐	500.000	548.558	105031.48	0.3866	P	2.3
3	☐	5000.000	5238.799	1028927.41	3.6851	P	8.0
4	☐	12500.000	14565.004	2684134.96	10.2440	A	2.5
5	☐	25000.000	27672.258	5065866.56	19.4619	A	0.8
6	☐	50000.000	57300.162	10270843.81	40.2984	A	3.5
7	☐	100000.00	107151.08	21013834.85	75.3571	A	1.9
8	☐	500000.00	497652.09	103902320.3	349.9849	A	2.1

$$y = 7.0327\text{E-}004 * x + 8.5133\text{E-}004$$

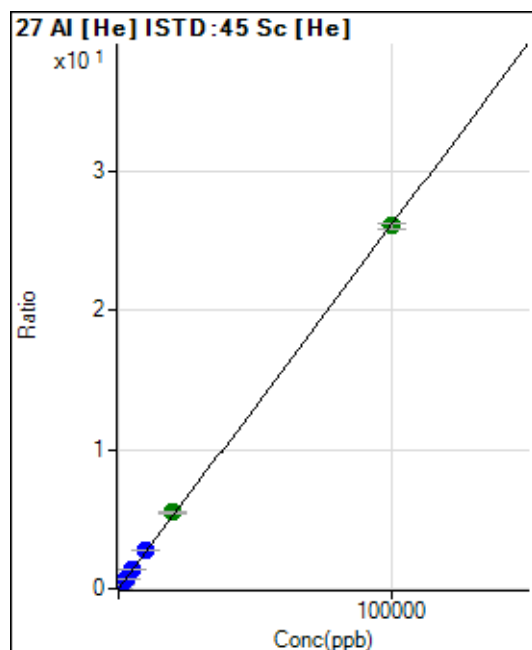
$$R = 0.9998$$

$$DL = 0.08769$$

$$BEC = 1.211$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	96.66	0.0004	P	11.7
2	☐	20.000	21.108	1596.97	0.0059	P	2.5
3	☐	1000.000	996.051	72733.62	0.2606	P	8.7
4	☐	2500.000	2671.318	182957.03	0.6983	P	3.4
5	☐	5000.000	5234.869	356107.10	1.3681	P	1.0
6	☐	10000.000	10649.149	709248.41	2.7826	P	3.2
7	☐	20000.000	20944.117	1525762.24	5.4724	A	0.8
8	☐	100000.00	99730.274	7735711.80	26.0567	A	1.5

$$y = 2.6127\text{E-}004 * x + 3.6122\text{E-}004$$

$$R = 0.9999$$

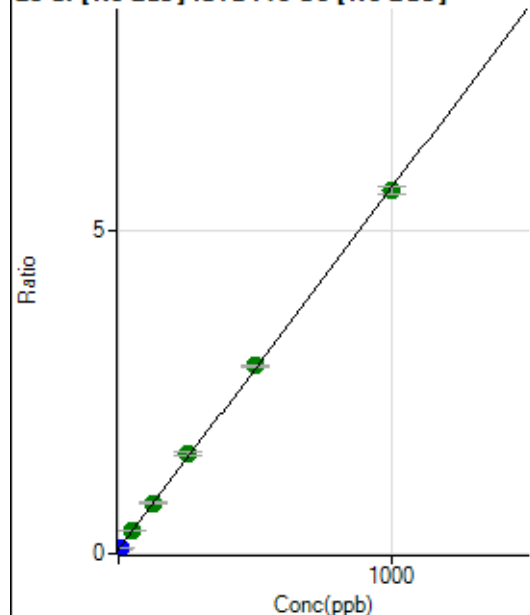
$$DL = 0.4865$$

$$BEC = 1.383$$

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	632339.61	0.0694	P	2.1
2	☐	10.000	2.521	760797.03	0.0835	P	2.3
3	☐	50.000	52.631	3345272.38	0.3643	A	1.9
4	☐	125.000	127.050	7318514.75	0.7812	A	3.2
5	☐	250.000	266.620	14745943.38	1.5631	A	3.6
6	☐	500.000	507.476	25677401.96	2.9125	A	1.1
7	☐	1000.000	991.794	52596471.31	5.6259	A	2.1
8	☐			1221481.43	0.1329	A	1.1

$$y = 0.0056 * x + 0.0694$$

$$R = 0.9997$$

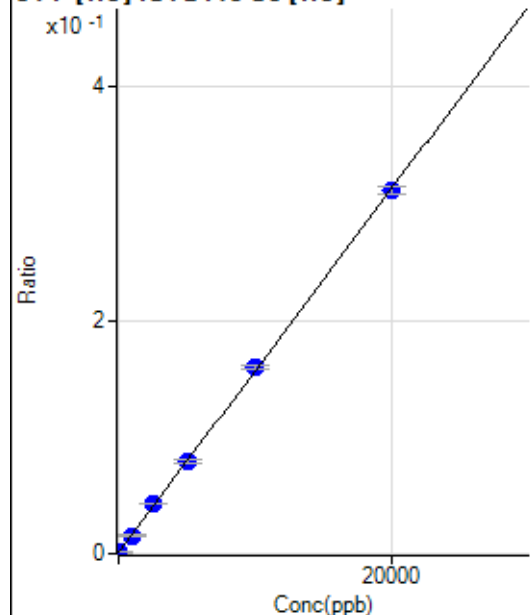
$$DL = 0.7831$$

$$BEC = 12.39$$

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	-12.417	188.89	0.0007	P	11.8
2	☐	0.000	12.417	297.23	0.0011	P	19.4
3	☐	1000.000	917.189	4231.28	0.0152	P	13.4
4	☐	2500.000	2684.551	11201.79	0.0427	P	1.2
5	☐	5000.000	5007.316	20551.18	0.0789	P	2.8
6	☐	10000.000	10195.440	40735.83	0.1598	P	2.8
7	☐	20000.000	19881.523	86640.19	0.3108	P	2.3
8	☐			241.68	0.0008	P	31.4

$$y = 1.5586E-005 * x + 8.9989E-004$$

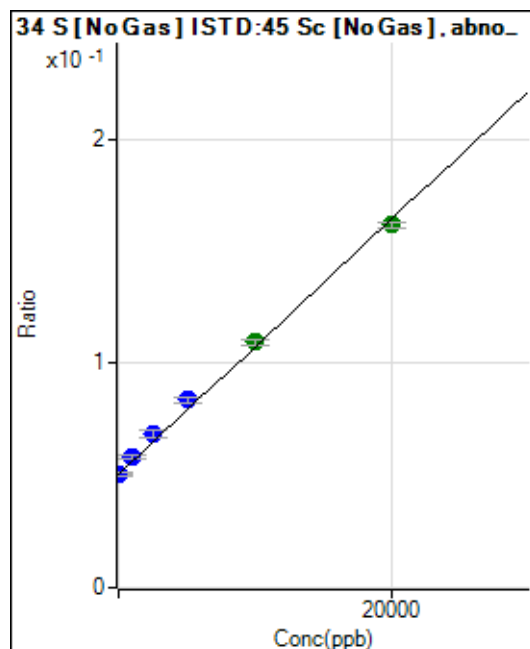
$$R = 0.9999$$

$$DL = 28.44$$

$$BEC = 57.74$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	-47.046	458115.29	0.0503	P	0.9
2	☐	0.000	47.046	462623.45	0.0508	P	3.7
3	☐	1000.000	1400.792	537347.08	0.0585	P	2.6
4	☐	2500.000	3167.055	642069.57	0.0686	P	4.2
5	☐	5000.000	5818.082	789125.78	0.0836	P	3.0
6	☐	10000.000	10324.560	963346.46	0.1093	A	2.5
7	☐	20000.000	19529.778	1511454.99	0.1617	A	1.8
8	☐			408712.69	0.0445	P	3.5

$$y = 5.6899\text{E-}006 * x + 0.0505$$

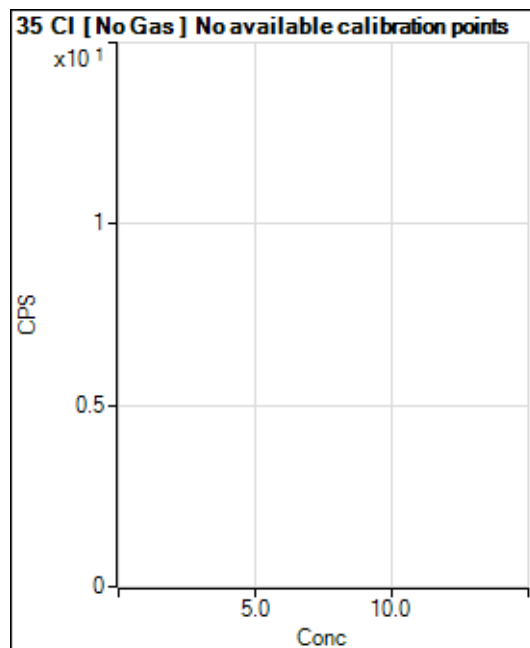
R = 0.9985

DL = 620.4

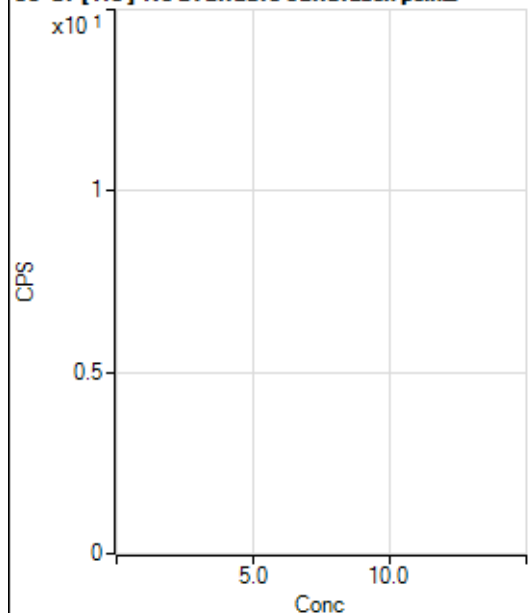
BEC = 8883

Weight: <None>

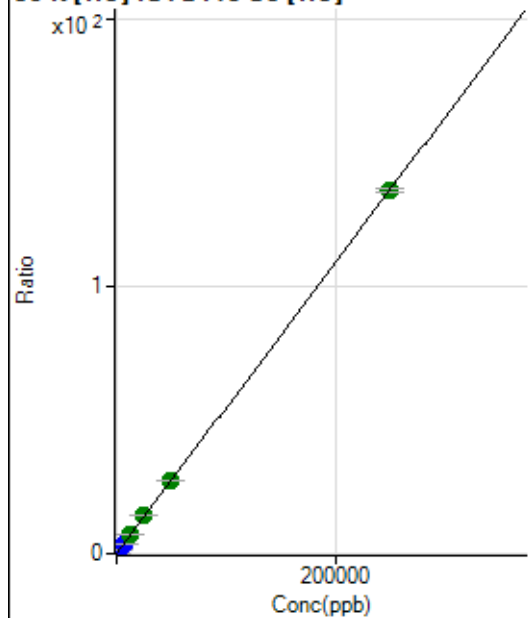
Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			524576.32		P	0.6
2	☐			545331.77		P	0.7
3	☐			547749.67		P	0.5
4	☐			531473.88		P	0.1
5	☐			512636.02		P	1.1
6	☐			517030.06		P	0.4
7	☐			528622.62		P	1.1
8	☐			528474.64		P	0.9

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3108.75		P	2.8
2	☐			3442.18		P	8.6
3	☐			3431.05		P	0.6
4	☐			3425.51		P	7.6
5	☐			3172.66		P	5.4
6	☐			3219.89		P	4.2
7	☐			3342.14		P	5.6
8	☐			3700.56		P	3.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	18590.21	0.0695	P	3.1
2	☐	500.000	509.475	94139.91	0.3465	P	1.1
3	☐	2500.000	2448.333	390921.57	1.4008	P	8.9
4	☐	6250.000	6474.503	940563.11	3.5900	P	3.5
5	☐	12500.000	12905.099	1844780.49	7.0866	A	2.2
6	☐	25000.000	26310.561	3664415.23	14.3759	A	2.6
7	☐	50000.000	50435.272	7666324.30	27.4937	A	0.9
8	☐	250000.00	249756.52	40340558.19	135.8746	A	1.2

$$y = 5.4375E-004 * x + 0.0695$$

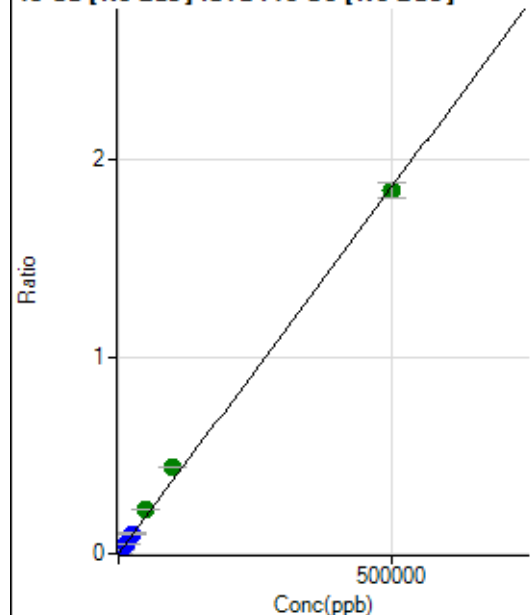
$$R = 1.0000$$

$$DL = 12$$

$$BEC = 127.8$$

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	280.80	0.0000	P	14.2
2	☐	500.000	502.792	17330.34	0.0019	P	3.6
3	☐	5000.000	5711.207	195627.98	0.0213	P	0.7
4	☐	12500.000	14044.898	490056.83	0.0523	P	4.6
5	☐	25000.000	27303.717	959476.60	0.1017	P	3.2
6	☐	50000.000	59802.007	1963447.46	0.2227	A	1.7
7	☐	100000.00	118144.30	4114061.32	0.4400	A	1.6
8	☐	500000.00	495230.01	16945913.87	1.8442	A	4.1

$$y = 3.7239\text{E-}006 * x + 3.0842\text{E-}005$$

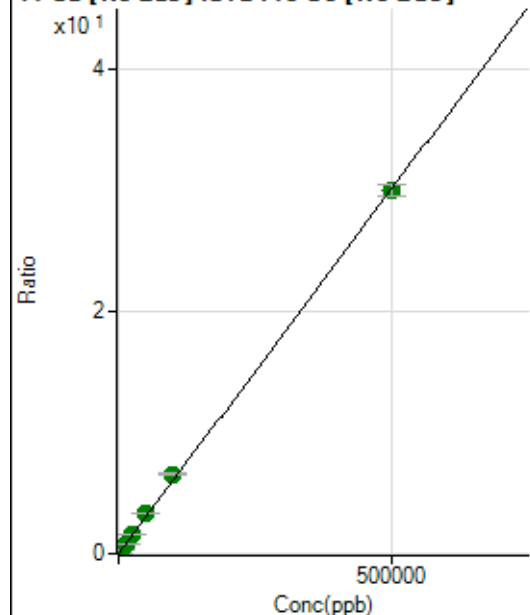
$$R = 0.9992$$

$$DL = 3.528$$

$$BEC = 8.282$$

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	20860.19	0.0023	P	1.8
2	☐	500.000	504.564	296871.19	0.0326	P	3.0
3	☐	5000.000	5573.505	3096520.44	0.3371	A	1.1
4	☐	12500.000	13481.469	7609099.14	0.8121	A	2.9
5	☐	25000.000	26416.784	14992730.73	1.5892	A	3.7
6	☐	50000.000	55057.375	29176657.76	3.3097	A	1.7
7	☐	100000.00	109320.42	61423271.36	6.5693	A	1.4
8	☐	500000.00	497529.06	274693350.4	29.8896	A	3.1

$$y = 6.0071\text{E-}005 * x + 0.0023$$

$$R = 0.9998$$

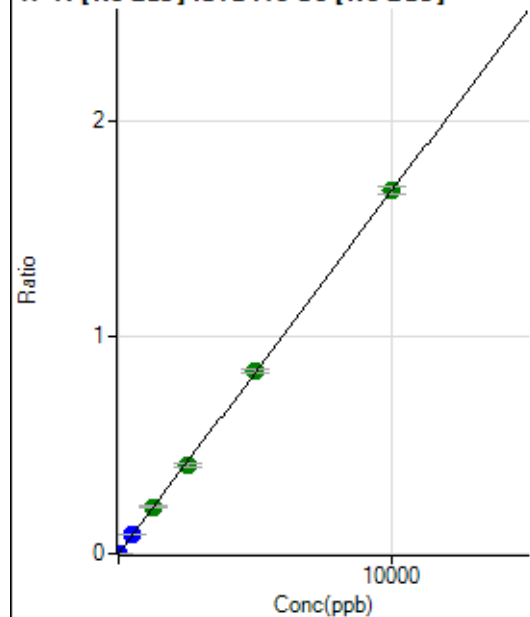
$$DL = 2.115$$

$$BEC = 38.11$$

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	380.57	0.0000	P	12.9
2	☐	5.000	5.299	8472.16	0.0009	P	1.0
3	☐	500.000	506.969	780683.67	0.0850	P	0.4
4	☐	1250.000	1274.778	2000827.17	0.2137	A	4.4
5	☐	2500.000	2424.345	3832140.32	0.4063	A	4.6
6	☐	5000.000	5016.888	7411240.18	0.8407	A	2.2
7	☐	10000.000	10007.024	15678212.50	1.6770	A	2.1
8	☐			1764.06	0.0002	P	27.5

$$y = 1.6758\text{E-}004 * x + 4.1768\text{E-}005$$

$$R = 1.0000$$

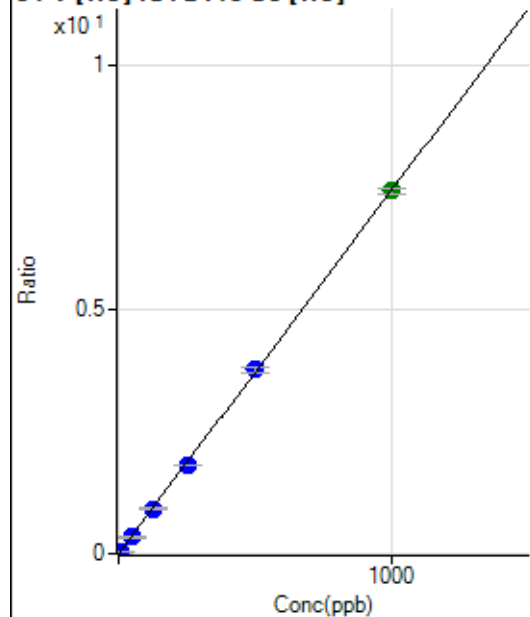
$$DL = 0.09683$$

$$BEC = 0.2492$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	8.89	0.0000	P	56.8
2	☐	5.000	4.826	9744.51	0.0359	P	0.6
3	☐	50.000	45.774	94875.85	0.3399	P	8.5
4	☐	125.000	124.390	241973.00	0.9235	P	3.1
5	☐	250.000	243.385	470348.62	1.8070	P	1.1
6	☐	500.000	506.210	957852.59	3.7583	P	3.7
7	☐	1000.000	998.837	2067530.86	7.4157	A	1.3
8	☐			341.12	0.0011	P	4.9

$$y = 0.0074 * x + 3.3124\text{E-}005$$

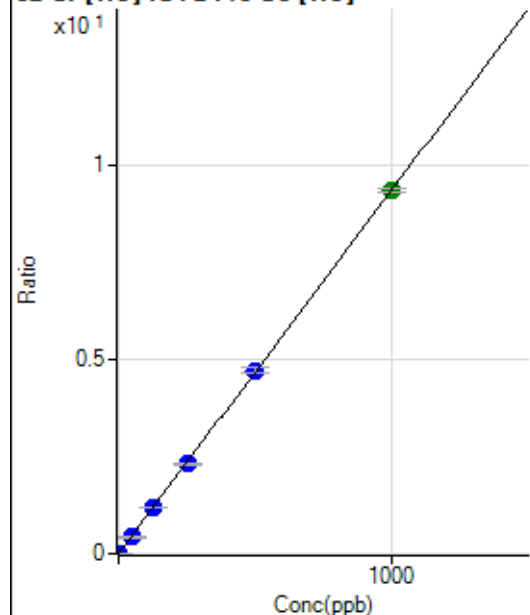
$$R = 0.9999$$

$$DL = 0.007602$$

$$BEC = 0.004462$$

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	663.36	0.0025	P	9.8
2	☐	2.000	1.924	5563.35	0.0205	P	2.2
3	☐	50.000	46.608	122357.60	0.4385	P	9.3
4	☐	125.000	125.897	309278.79	1.1803	P	2.6
5	☐	250.000	246.294	600412.47	2.3067	P	1.0
6	☐	500.000	505.019	1204852.11	4.7273	P	3.7
7	☐	1000.000	998.475	2605108.61	9.3439	A	1.0
8	☐			6191.40	0.0209	P	4.4

$$y = 0.0094 * x + 0.0025$$

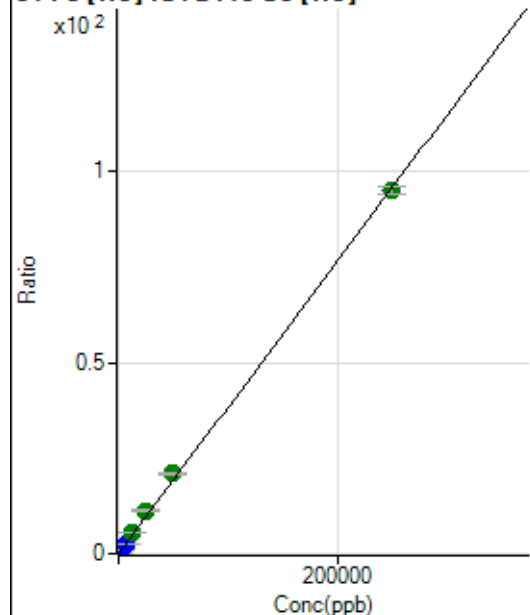
$$R = 1.0000$$

$$DL = 0.07789$$

$$BEC = 0.265$$

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	605.58	0.0023	P	9.5
2	☐	50.000	55.715	6392.26	0.0235	P	1.8
3	☐	2500.000	2595.597	277012.57	0.9930	P	9.7
4	☐	6250.000	7008.697	701618.17	2.6776	P	1.7
5	☐	12500.000	14402.197	1431700.01	5.4998	A	2.0
6	☐	25000.000	29404.034	2861660.45	11.2263	A	2.5
7	☐	50000.000	54970.038	5850704.18	20.9852	A	1.6
8	☐	250000.00	248450.55	28158541.37	94.8398	A	2.2

$$y = 3.8172E-004 * x + 0.0023$$

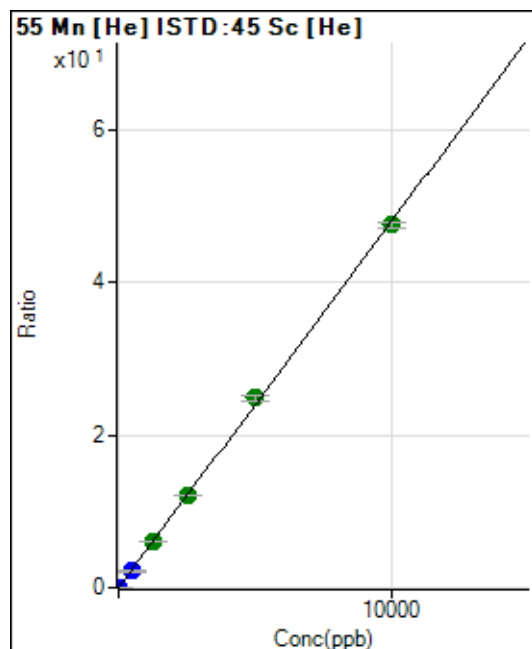
$$R = 0.9997$$

$$DL = 1.698$$

$$BEC = 5.927$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	104.45	0.0004	P	18.7
2	☐	1.000	1.001	1412.31	0.0052	P	2.3
3	☐	500.000	461.118	617826.82	2.2141	P	9.1
4	☐	1250.000	1270.179	1598007.95	6.0982	A	1.1
5	☐	2500.000	2516.868	3145090.58	12.0832	A	0.3
6	☐	5000.000	5179.025	6337519.35	24.8635	A	3.0
7	☐	10000.000	9905.692	13257981.33	47.5550	A	1.3
8	☐			6932.86	0.0234	P	4.2

$$y = 0.0048 * x + 3.9011E-004$$

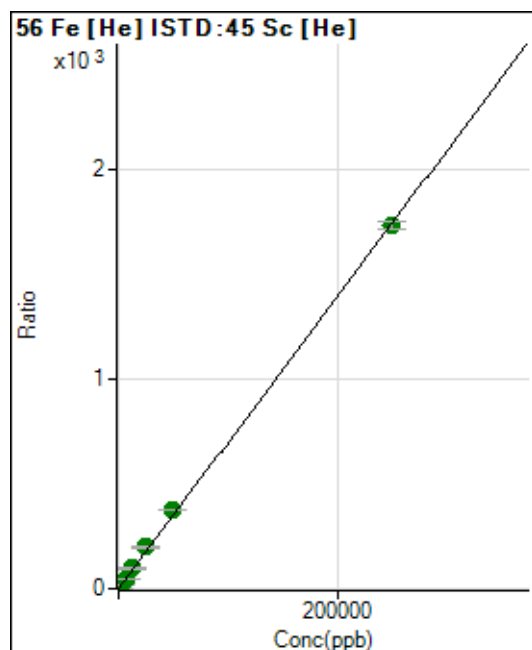
$$R = 0.9997$$

$$DL = 0.04568$$

$$BEC = 0.08126$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4432.24	0.0166	P	3.2
2	☐	50.000	53.990	106427.42	0.3918	P	2.4
3	☐	2500.000	2664.507	5174665.91	18.5347	A	8.3
4	☐	6250.000	6987.945	12728910.00	48.5822	A	2.9
5	☐	12500.000	13925.189	25197368.85	96.7955	A	2.1
6	☐	25000.000	28744.463	50911231.23	199.7882	A	4.8
7	☐	50000.000	53779.456	104211492.1	373.7792	A	1.1
8	☐	250000.00	248778.30	513294563.3	1.729004	A	2.0

$$y = 0.0069 * x + 0.0166$$

$$R = 0.9998$$

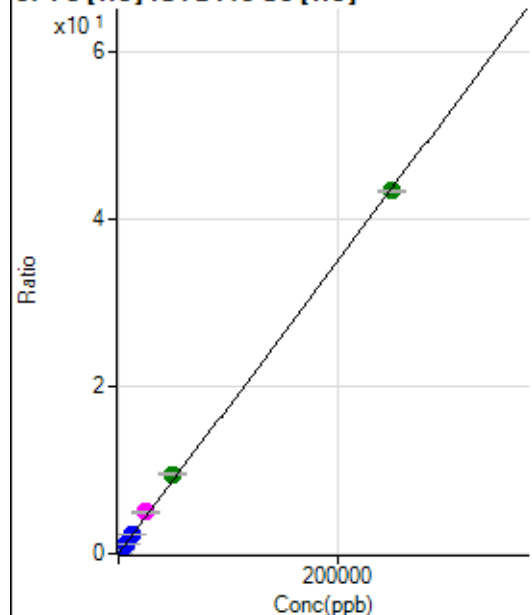
$$DL = 0.2274$$

$$BEC = 2.383$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	187.04	0.0007	P	23.1
2	☐	50.000	51.153	2613.25	0.0096	P	6.5
3	☐	2500.000	2581.188	125733.40	0.4509	P	10.4
4	☐	6250.000	6810.537	311420.02	1.1886	P	2.8
5	☐	12500.000	13232.681	600898.95	2.3087	P	0.5
6	☐	25000.000	28437.130	1263590.13	4.9606	M	7.6
7	☐	50000.000	54687.447	2659254.66	9.5392	A	2.0
8	☐	250000.00	248667.33	12876882.35	43.3727	A	0.3

$$y = 1.7442\text{E-}004 * x + 6.9947\text{E-}004$$

$$R = 0.9997$$

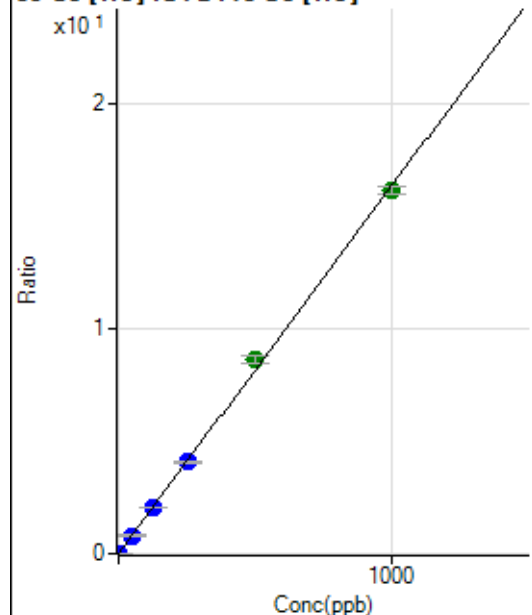
$$DL = 2.774$$

$$BEC = 4.01$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	65.56	0.0002	P	22.2
2	☐	1.000	1.011	4563.00	0.0168	P	2.8
3	☐	50.000	48.096	219563.13	0.7874	P	10.5
4	☐	125.000	126.407	542197.98	2.0692	P	1.7
5	☐	250.000	249.044	1061038.83	4.0764	P	0.6
6	☐	500.000	526.538	2196672.55	8.6183	A	4.0
7	☐	1000.000	986.890	4503572.12	16.1530	A	2.0
8	☐			6200.30	0.0209	P	1.1

$$y = 0.0164 * x + 2.4473\text{E-}004$$

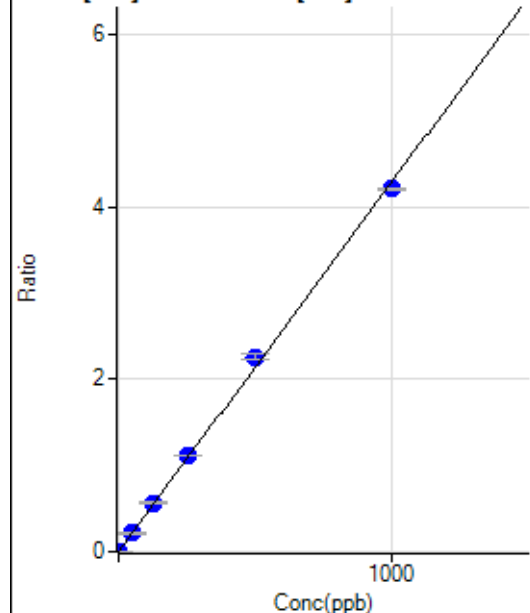
$$R = 0.9995$$

$$DL = 0.009965$$

$$BEC = 0.01495$$

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	68.89	0.0003	P	9.3
2	☐	1.000	1.025	1263.41	0.0046	P	10.3
3	☐	50.000	50.442	60290.59	0.2162	P	10.7
4	☐	125.000	132.205	148396.14	0.5663	P	2.2
5	☐	250.000	259.511	289303.53	1.1115	P	0.6
6	☐	500.000	528.512	576865.91	2.2633	P	3.9
7	☐	1000.000	982.444	1173057.52	4.2070	P	0.5
8	☐			2983.68	0.0100	P	3.3

$$y = 0.0043 * x + 2.5733E-004$$

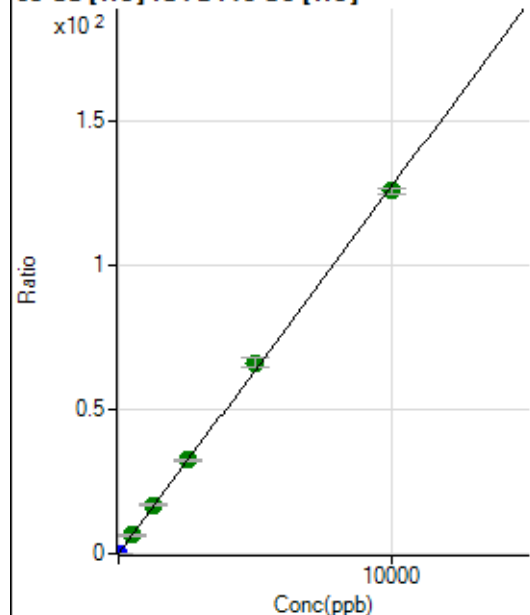
$$R = 0.9993$$

$$DL = 0.01674$$

$$BEC = 0.0601$$

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	2401.34	0.0090	P	4.6
2	☐	2.000	2.024	9422.08	0.0347	P	3.8
3	☐	500.000	497.113	1763694.05	6.3232	A	9.9
4	☐	1250.000	1317.380	4386196.63	16.7421	A	4.1
5	☐	2500.000	2542.034	8407372.93	32.2973	A	3.0
6	☐	5000.000	5200.765	16836477.11	66.0680	A	4.4
7	☐	10000.000	9880.831	35000968.92	125.5132	A	1.4
8	☐			7408.67	0.0250	P	4.0

$$y = 0.0127 * x + 0.0090$$

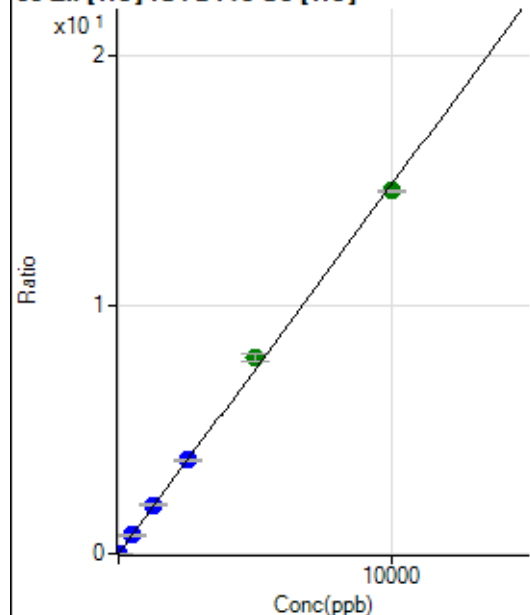
$$R = 0.9997$$

$$DL = 0.09829$$

$$BEC = 0.7065$$

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	275.56	0.0010	P	14.3
2	☐	2.000	2.324	1215.62	0.0045	P	3.6
3	☐	500.000	495.280	205224.10	0.7352	P	8.4
4	☐	1250.000	1315.045	511007.10	1.9502	P	2.3
5	☐	2500.000	2539.216	979971.38	3.7647	P	1.3
6	☐	5000.000	5294.261	2000222.18	7.8484	A	3.8
7	☐	10000.000	9835.171	4065113.17	14.5791	A	0.8
8	☐			4308.48	0.0145	P	1.3

$$y = 0.0015 * x + 0.0010$$

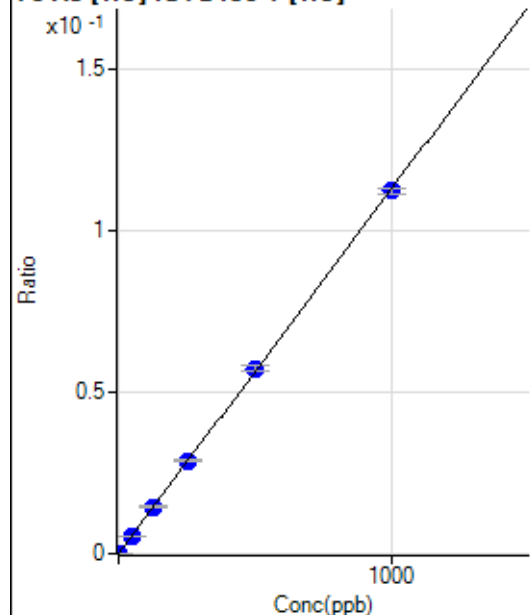
$$R = 0.9993$$

$$DL = 0.2993$$

$$BEC = 0.6952$$

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	7.00	0.0000	P	37.3
2	☐	1.000	1.148	265.03	0.0001	P	6.0
3	☐	50.000	47.438	11374.39	0.0054	P	7.7
4	☐	125.000	128.793	28744.66	0.0146	P	2.4
5	☐	250.000	255.416	55809.08	0.0289	P	1.3
6	☐	500.000	507.309	111067.56	0.0573	P	3.0
7	☐	1000.000	994.646	229682.72	0.1124	P	1.6
8	☐			147.35	0.0001	P	5.8

$$y = 1.1299E-004 * x + 3.6079E-006$$

$$R = 0.9999$$

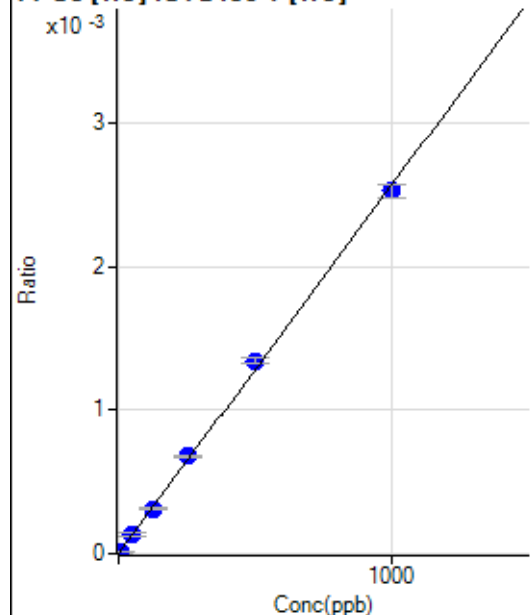
$$DL = 0.03577$$

$$BEC = 0.03193$$

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	2.22	0.0000	P	173.2
2	☐	5.000	5.660	31.11	0.0000	P	27.2
3	☐	50.000	52.371	286.67	0.0001	P	12.6
4	☐	125.000	120.683	613.35	0.0003	P	4.8
5	☐	250.000	263.752	1310.08	0.0007	P	2.6
6	☐	500.000	524.063	2606.93	0.0013	P	2.6
7	☐	1000.000	984.948	5164.34	0.0025	P	3.6
8	☐			3.33	0.0000	P	98.9

$$y = 2.5649\text{E-}006 * x + 1.1513\text{E-}006$$

$$R = 0.9994$$

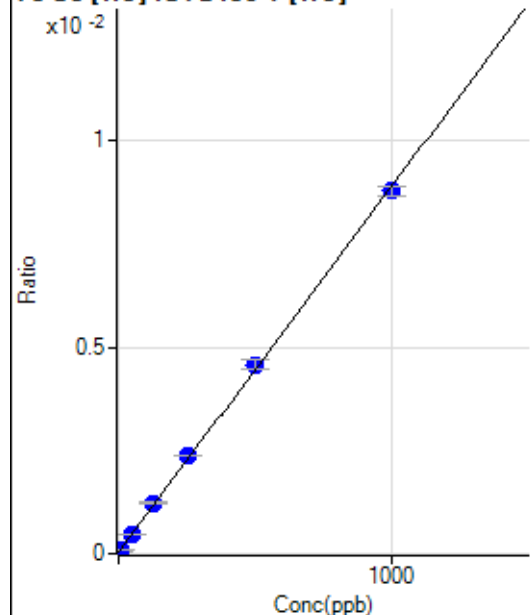
$$DL = 2.332$$

$$BEC = 0.4489$$

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	68.34	0.0000	P	6.6
2	☐	5.000	6.645	187.02	0.0001	P	6.9
3	☐	50.000	49.358	1002.47	0.0005	P	4.6
4	☐	125.000	135.160	2430.46	0.0012	P	5.6
5	☐	250.000	265.058	4603.55	0.0024	P	1.1
6	☐	500.000	513.068	8862.02	0.0046	P	5.3
7	☐	1000.000	988.455	17945.54	0.0088	P	2.7
8	☐			92.01	0.0000	P	12.2

$$y = 8.8487\text{E-}006 * x + 3.5284\text{E-}005$$

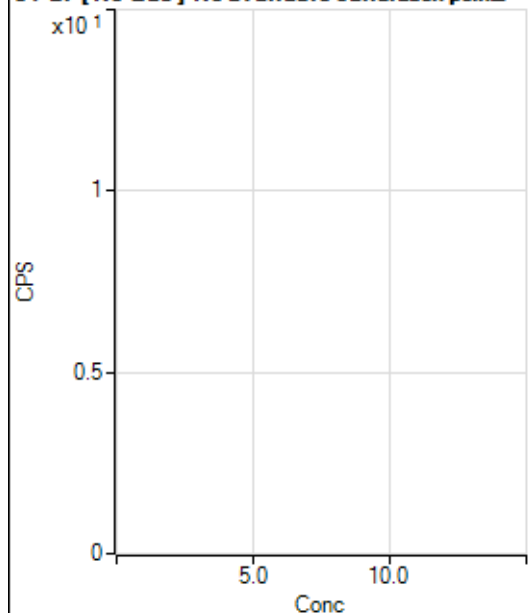
$$R = 0.9997$$

$$DL = 0.7918$$

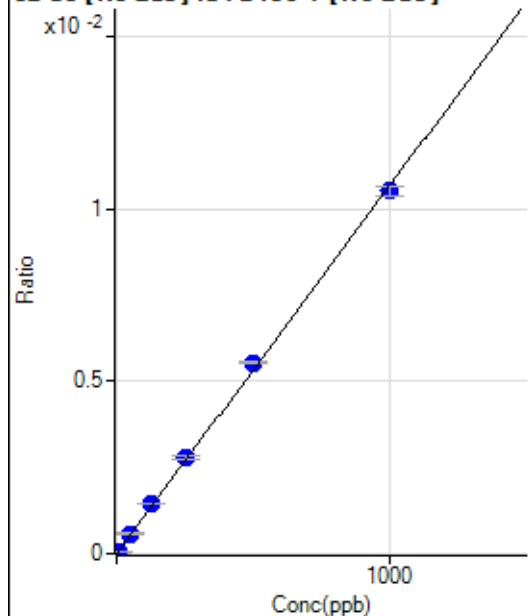
$$BEC = 3.987$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			39165.70		P	3.0
2	☐			39624.21		P	3.3
3	☐			40708.04		P	4.1
4	☐			39459.90		P	3.2
5	☐			38864.46		P	1.5
6	☐			40631.29		P	2.7
7	☐			40865.43		P	1.8
8	☐			44068.47		P	1.6

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	-2.27	0.0000	P	-460.
2	☐	5.000	5.264	1044.89	0.0001	P	5.4
3	☐	50.000	54.024	10936.30	0.0006	P	4.3
4	☐	125.000	134.284	27062.39	0.0014	P	0.7
5	☐	250.000	260.607	52160.77	0.0028	P	3.9
6	☐	500.000	518.909	100199.50	0.0055	P	0.8
7	☐	1000.000	986.531	203568.20	0.0105	P	3.0
8	☐			257.55	0.0000	P	23.0

$$y = 1.0679E-005 * x - 1.1814E-007$$

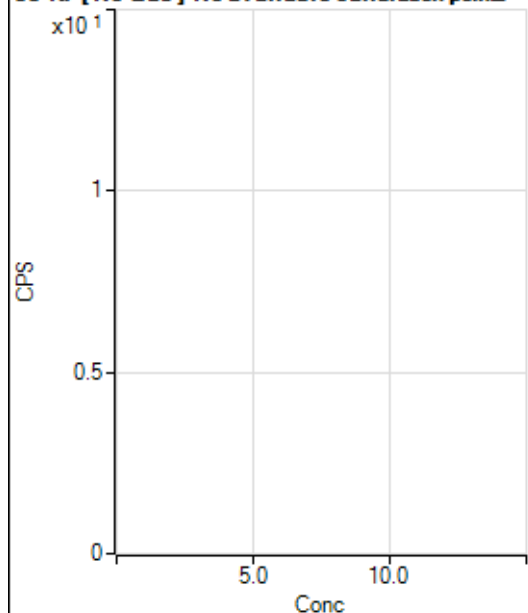
$$R = 0.9997$$

$$DL = 0.1529$$

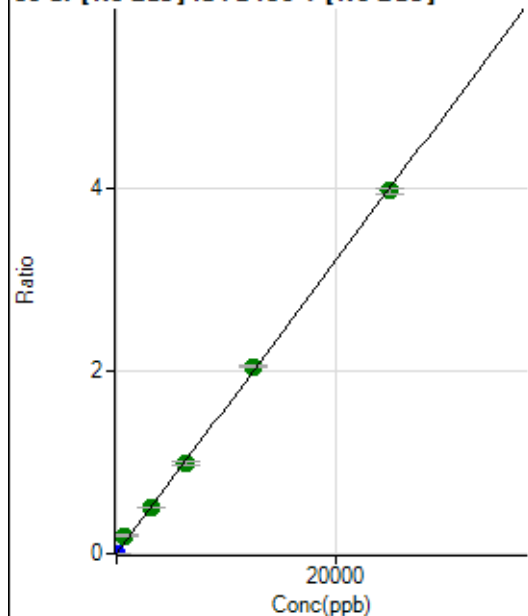
$$BEC = -0.01106$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1216.99		P	1.2
2	☐			1357.82		P	11.3
3	☐			1281.57		P	3.0
4	☐			1216.99		P	0.8
5	☐			1295.32		P	3.6
6	☐			1278.23		P	2.4
7	☐			1298.23		P	2.9
8	☐			1330.32		P	3.5

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	2075.21	0.0001	P	4.1
2	☐	1.000	1.054	5201.11	0.0003	P	9.4
3	☐	625.000	1236.619	3762660.98	0.1984	A	2.7
4	☐	3125.000	3135.449	9490352.03	0.5029	A	1.8
5	☐	6250.000	6217.483	18690814.13	0.9970	A	3.8
6	☐	12500.000	12814.764	37157015.76	2.0548	A	1.2
7	☐	25000.000	24834.150	76975599.64	3.9820	A	1.7
8	☐			25574.49	0.0014	P	7.5

$$y = 1.6034E-004 * x + 1.1067E-004$$

$$R = 0.9996$$

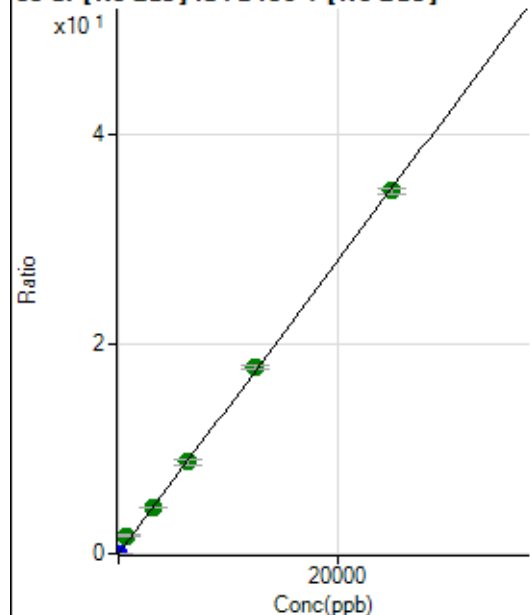
$$DL = 0.0852$$

$$BEC = 0.6902$$

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	300.01	0.0000	P	16.9
2	☐	1.000	1.014	26578.71	0.0014	P	2.1
3	☐	625.000	1237.839	32654386.84	1.7217	A	2.4
4	☐	3125.000	3111.830	81686582.38	4.3281	A	0.5
5	☐	6250.000	6258.331	163093467.5	8.7044	A	5.1
6	☐	12500.000	12775.638	321300979.4	17.7690	A	1.7
7	☐	25000.000	24846.424	667946587.1	34.5577	A	1.8
8	☐			202665.92	0.0110	P	11.0

$$y = 0.0014 * x + 1.5994E-005$$

$$R = 0.9996$$

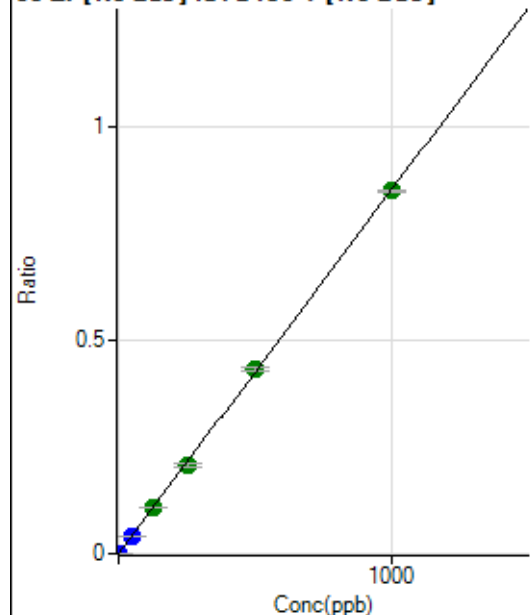
$$DL = 0.005822$$

$$BEC = 0.0115$$

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	755.60	0.0000	P	5.1
2	☐	1.000	0.967	16101.35	0.0009	P	6.4
3	☐	50.000	49.196	796792.75	0.0420	P	2.2
4	☐	125.000	125.727	2024992.08	0.1073	A	2.0
5	☐	250.000	244.455	3909706.29	0.2086	A	3.9
6	☐	500.000	508.178	7840745.49	0.4336	A	2.1
7	☐	1000.000	997.247	16449244.98	0.8508	A	0.7
8	☐			8024.80	0.0004	P	5.2

$$y = 8.5308E-004 * x + 4.0296E-005$$

$$R = 0.9999$$

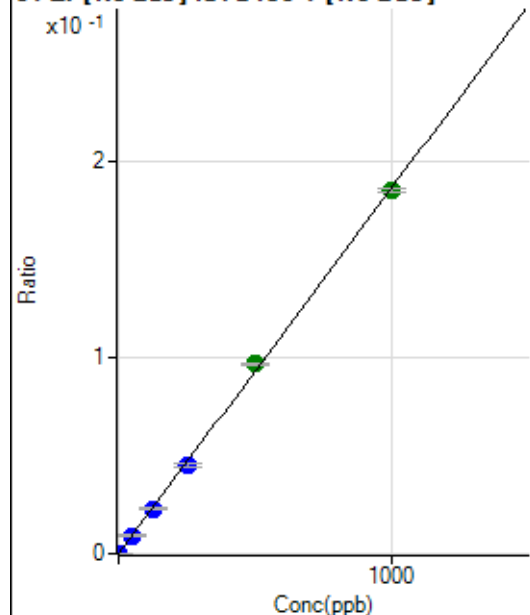
$$DL = 0.007254$$

$$BEC = 0.04724$$

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	136.12	0.0000	P	34.7
2	☐	1.000	1.017	3661.69	0.0002	P	6.7
3	☐	50.000	49.714	175591.31	0.0093	P	3.2
4	☐	125.000	123.501	433889.54	0.0230	P	1.4
5	☐	250.000	242.759	846954.97	0.0452	P	3.6
6	☐	500.000	518.448	1744744.22	0.0965	A	1.3
7	☐	1000.000	992.788	3571692.09	0.1848	A	1.0
8	☐			1680.72	0.0001	P	13.0

$$y = 1.8609E-004 * x + 7.2742E-006$$

$$R = 0.9997$$

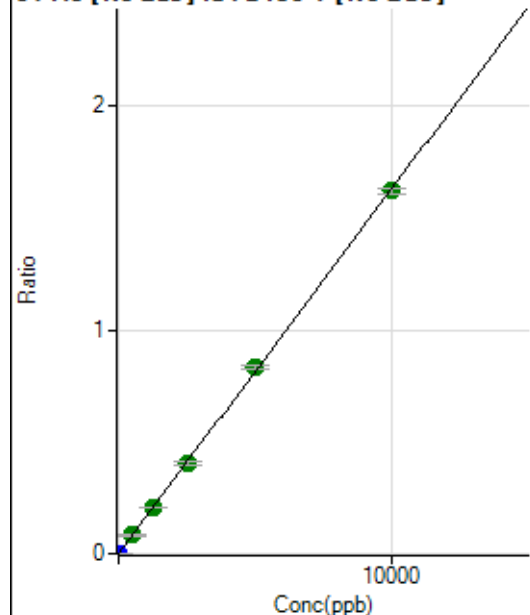
$$DL = 0.04065$$

$$BEC = 0.03909$$

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	238.90	0.0000	P	13.6
2	☐	5.000	5.947	18279.10	0.0010	P	4.2
3	☐	500.000	506.310	1563912.47	0.0825	A	3.8
4	☐	1250.000	1269.351	3902015.50	0.2067	A	1.1
5	☐	2500.000	2475.076	7553414.92	0.4031	A	5.0
6	☐	5000.000	5103.602	15030088.18	0.8312	A	1.9
7	☐	10000.000	9951.695	31328433.34	1.6208	A	1.6
8	☐			8036.16	0.0004	P	17.7

$$y = 1.6287E-004 * x + 1.2725E-005$$

$$R = 0.9999$$

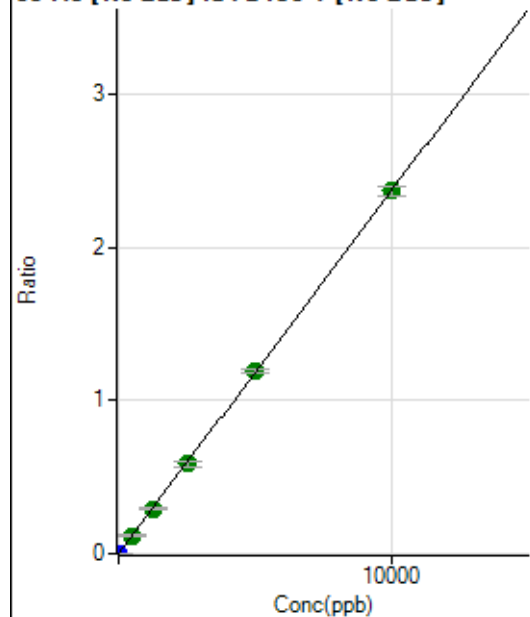
$$DL = 0.03193$$

$$BEC = 0.07813$$

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	47.22	0.0000	P	20.6
2	☐	5.000	5.027	22232.24	0.0012	P	7.3
3	☐	500.000	502.603	2259603.93	0.1192	A	5.0
4	☐	1250.000	1243.693	5566106.33	0.2949	A	0.9
5	☐	2500.000	2464.058	10948895.38	0.5843	A	4.9
6	☐	5000.000	5024.280	21542369.58	1.1914	A	2.4
7	☐	10000.000	9997.503	45811652.41	2.3707	A	2.8
8	☐			8048.69	0.0004	P	24.4

$$y = 2.3713E-004 * x + 2.5184E-006$$

$$R = 1.0000$$

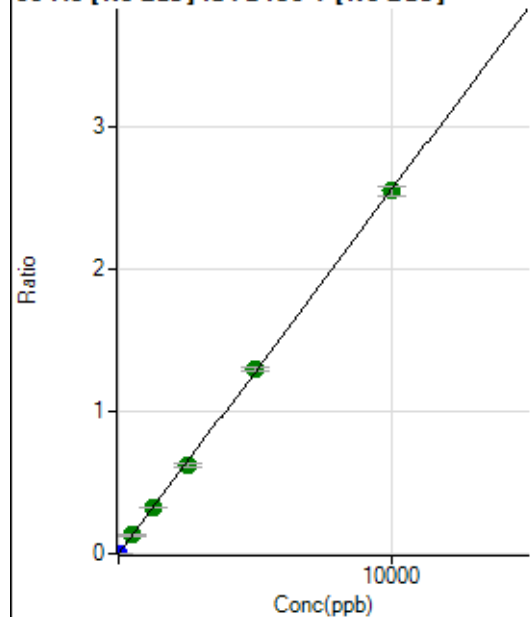
$$DL = 0.006559$$

$$BEC = 0.01062$$

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	397.24	0.0000	P	12.0
2	☐	5.000	5.133	24850.65	0.0013	P	2.9
3	☐	500.000	505.854	2453776.10	0.1294	A	2.1
4	☐	1250.000	1259.244	6077328.91	0.3220	A	1.5
5	☐	2500.000	2450.998	11746384.73	0.6267	A	4.1
6	☐	5000.000	5078.460	23480127.96	1.2985	A	1.8
7	☐	10000.000	9971.572	49271333.74	2.5497	A	2.6
8	☐			25275.39	0.0014	P	7.3

$$y = 2.5569E-004 * x + 2.1185E-005$$

$$R = 0.9999$$

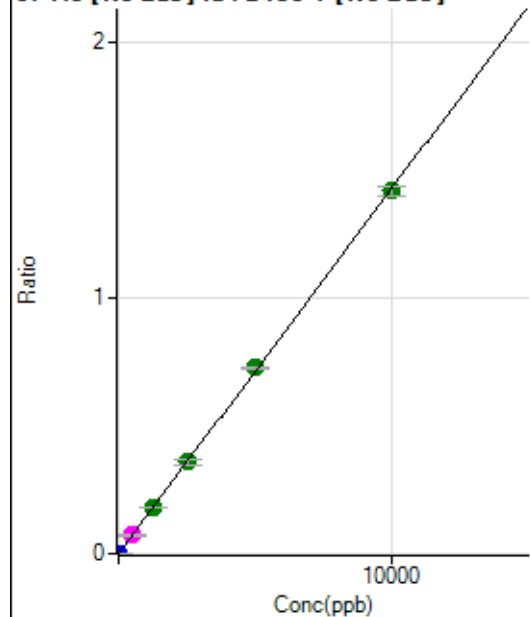
$$DL = 0.02977$$

$$BEC = 0.08285$$

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	27.78	0.0000	P	68.2
2	☐	5.000	5.286	14065.82	0.0008	P	3.9
3	☐	500.000	500.802	1354344.33	0.0714	M	2.0
4	☐	1250.000	1281.365	3447589.57	0.1827	A	1.4
5	☐	2500.000	2518.561	6725822.29	0.3590	A	5.9
6	☐	5000.000	5094.921	13135435.45	0.7263	A	1.1
7	☐	10000.000	9943.939	27396074.22	1.4176	A	2.6
8	☐			4940.55	0.0003	P	28.2

$$y = 1.4255\text{E-}004 * x + 1.4743\text{E-}006$$

$$R = 0.9999$$

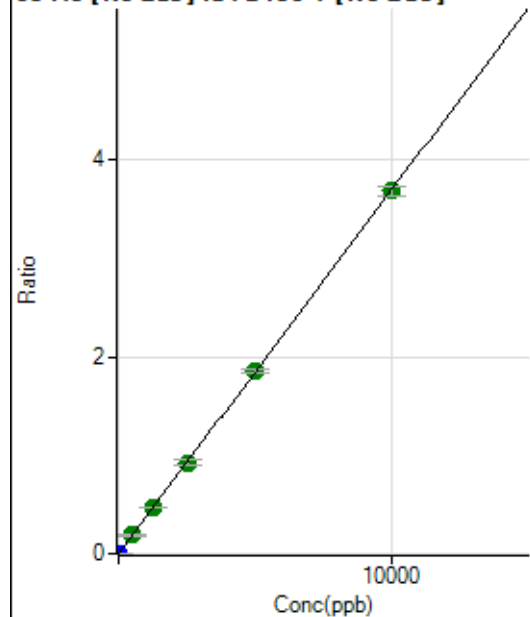
$$DL = 0.02115$$

$$BEC = 0.01034$$

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	161.11	0.0000	P	25.6
2	☐	5.000	5.111	35284.56	0.0019	P	4.3
3	☐	500.000	503.641	3525283.72	0.1858	A	1.8
4	☐	1250.000	1267.925	8830298.03	0.4679	A	1.5
5	☐	2500.000	2502.504	17300508.02	0.9234	A	5.4
6	☐	5000.000	5040.306	33636278.88	1.8598	A	1.8
7	☐	10000.000	9976.798	71144281.45	3.6814	A	2.4
8	☐			12036.51	0.0007	P	24.9

$$y = 3.6899\text{E-}004 * x + 8.5771\text{E-}006$$

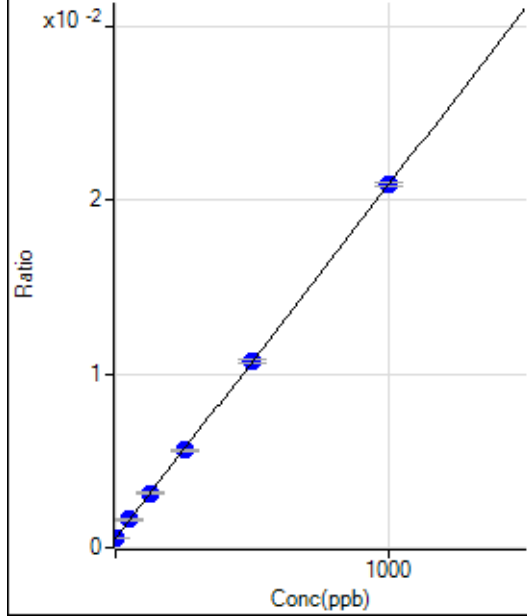
$$R = 1.0000$$

$$DL = 0.01784$$

$$BEC = 0.02324$$

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	5748.56	0.0005	P	5.9
2	☐	1.000	1.335	6032.05	0.0006	P	2.3
3	☐	50.000	52.797	17456.02	0.0016	P	5.5
4	☐	125.000	127.997	35624.59	0.0031	P	3.5
5	☐	250.000	249.170	63547.45	0.0056	P	1.4
6	☐	500.000	499.649	118916.90	0.0107	P	1.9
7	☐	1000.000	999.868	237104.91	0.0209	P	1.2
8	☐			6307.16	0.0006	P	8.9

$$y = 2.0326\text{E-}005 * x + 5.3408\text{E-}004$$

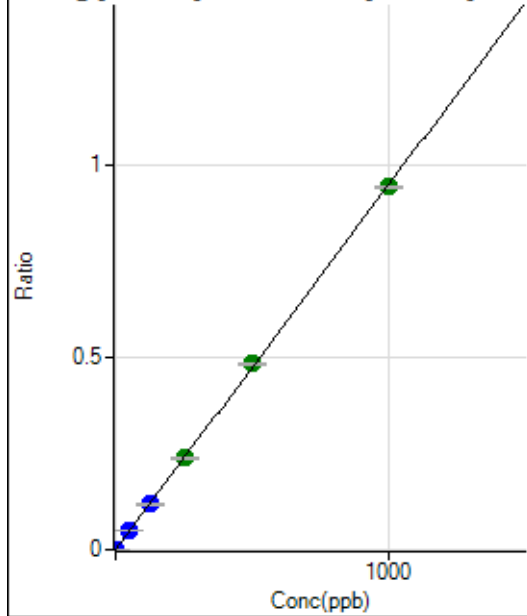
$$R = 1.0000$$

$$DL = 4.677$$

$$BEC = 26.28$$

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	136.12	0.0000	P	48.6
2	☐	1.000	1.113	11488.46	0.0011	P	6.0
3	☐	50.000	52.152	538387.79	0.0496	P	2.7
4	☐	125.000	124.704	1346271.36	0.1185	P	3.2
5	☐	250.000	250.614	2702049.47	0.2381	A	2.8
6	☐	500.000	509.611	5386566.01	0.4842	A	1.6
7	☐	1000.000	994.971	10747108.40	0.9454	A	0.8
8	☐			2308.62	0.0002	P	10.3

$$y = 9.5014\text{E-}004 * x + 1.2693\text{E-}005$$

$$R = 0.9999$$

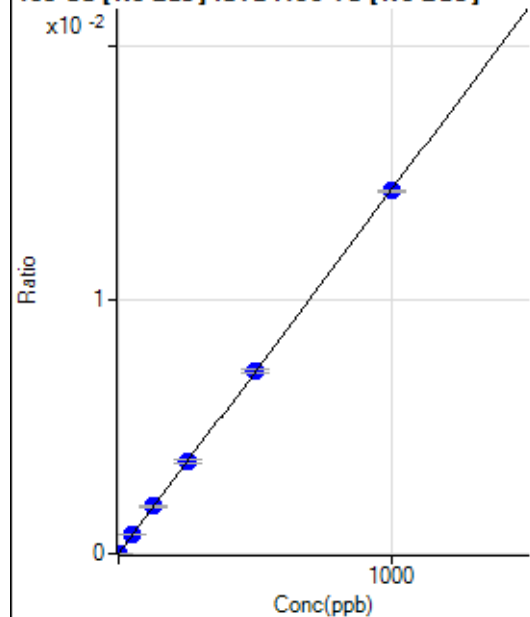
$$DL = 0.01948$$

$$BEC = 0.01336$$

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	66.67	0.0000	P	45.6
2	☐	1.000	1.106	236.12	0.0000	P	17.2
3	☐	50.000	53.598	8405.45	0.0008	P	3.4
4	☐	125.000	129.241	21102.50	0.0019	P	3.3
5	☐	250.000	253.465	41261.99	0.0036	P	3.1
6	☐	500.000	502.312	80067.98	0.0072	P	2.7
7	☐	1000.000	997.268	162458.30	0.0143	P	0.6
8	☐			188.89	0.0000	P	11.4

$$y = 1.4323\text{E-}005 * x + 6.1559\text{E-}006$$

$$R = 1.0000$$

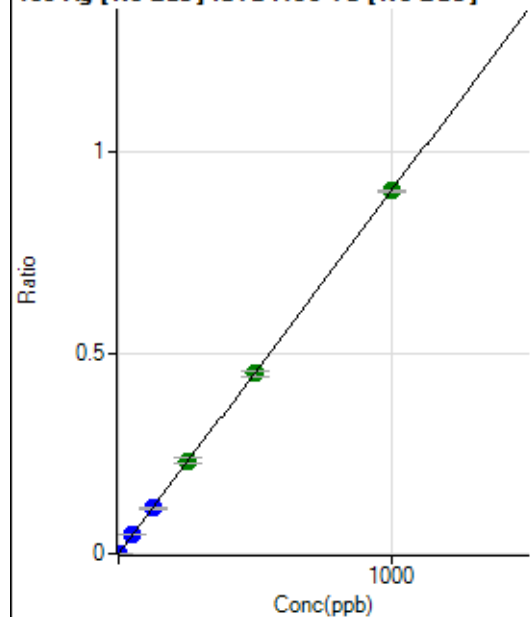
$$DL = 0.5877$$

$$BEC = 0.4298$$

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	66.67	0.0000	P	64.7
2	☐	1.000	1.098	10729.47	0.0010	P	1.8
3	☐	50.000	53.094	521167.46	0.0480	P	2.3
4	☐	125.000	125.755	1290660.03	0.1136	P	3.4
5	☐	250.000	256.423	2627366.92	0.2316	A	4.9
6	☐	500.000	496.834	4989630.58	0.4488	A	2.8
7	☐	1000.000	999.728	10265513.51	0.9031	A	0.8
8	☐			2025.21	0.0002	P	9.2

$$y = 9.0332\text{E-}004 * x + 6.1683\text{E-}006$$

$$R = 1.0000$$

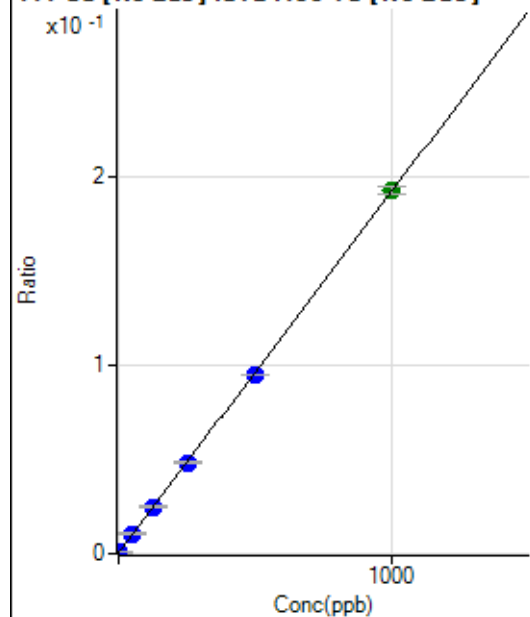
$$DL = 0.01326$$

$$BEC = 0.006828$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5224.27	0.0005	P	6.9
2	☐	1.000	1.164	7611.02	0.0007	P	2.0
3	☐	50.000	52.974	115338.43	0.0106	P	3.4
4	☐	125.000	126.373	280113.09	0.0247	P	4.2
5	☐	250.000	249.939	548063.81	0.0483	P	2.5
6	☐	500.000	493.373	1055184.91	0.0949	P	0.8
7	☐	1000.000	1003.008	2186388.39	0.1924	A	2.3
8	☐			6013.68	0.0006	P	7.6

$$y = 1.9129\text{E-}004 * x + 4.8545\text{E-}004$$

$$R = 1.0000$$

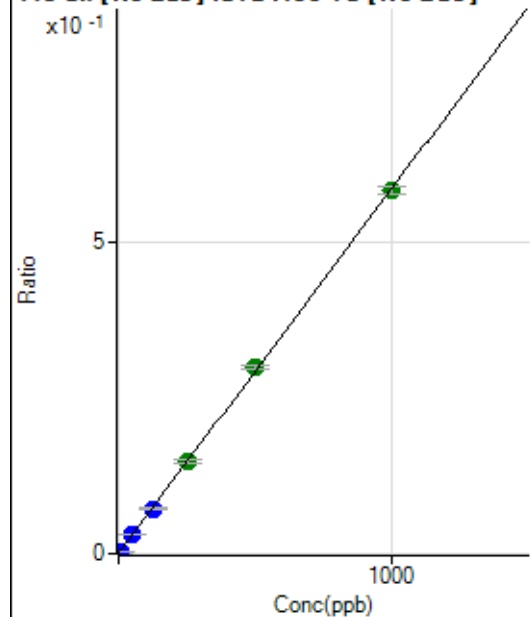
$$DL = 0.5235$$

$$BEC = 2.538$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6040.56	0.0006	P	12.6
2	☐	5.000	5.531	40828.47	0.0038	P	7.0
3	☐	50.000	51.704	335253.49	0.0309	P	3.1
4	☐	125.000	122.693	823254.91	0.0725	P	4.1
5	☐	250.000	251.518	1678593.49	0.1480	A	4.1
6	☐	500.000	509.988	3330475.75	0.2994	A	1.5
7	☐	1000.000	994.827	6633097.11	0.5836	A	2.3
8	☐			7349.37	0.0007	P	3.1

$$y = 5.8607\text{E-}004 * x + 5.6085\text{E-}004$$

$$R = 0.9999$$

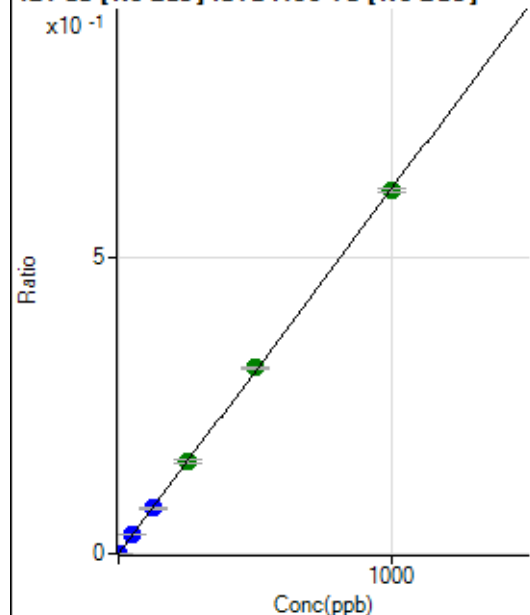
$$DL = 0.363$$

$$BEC = 0.957$$

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	27.78	0.0000	P	15.1
2	☐	2.000	2.024	13376.38	0.0012	P	4.1
3	☐	50.000	51.477	343319.83	0.0316	P	2.8
4	☐	125.000	124.435	867962.30	0.0764	P	3.3
5	☐	250.000	253.170	1763806.10	0.1554	A	2.7
6	☐	500.000	509.129	3475910.06	0.3126	A	1.8
7	☐	1000.000	994.640	6942223.68	0.6107	A	1.0
8	☐			6498.98	0.0006	P	5.7

$$y = 6.1395E-004 * x + 2.5732E-006$$

$$R = 0.9999$$

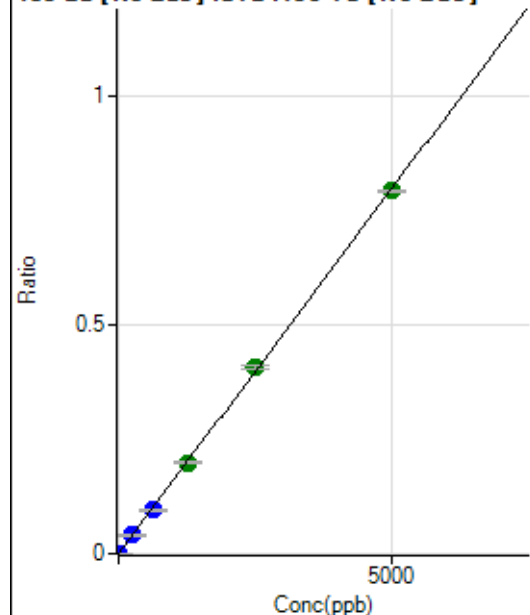
$$DL = 0.001895$$

$$BEC = 0.004191$$

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	44.45	0.0000	P	40.5
2	☐	10.000	10.174	17497.92	0.0016	P	2.3
3	☐	250.000	252.936	438420.16	0.0404	P	2.3
4	☐	625.000	604.782	1096094.70	0.0965	P	4.2
5	☐	1250.000	1248.402	2260086.38	0.1992	A	3.4
6	☐	2500.000	2556.112	4534243.16	0.4078	A	2.5
7	☐	5000.000	4974.724	9022629.80	0.7937	A	0.6
8	☐			4150.83	0.0004	P	5.9

$$y = 1.5955E-004 * x + 4.1495E-006$$

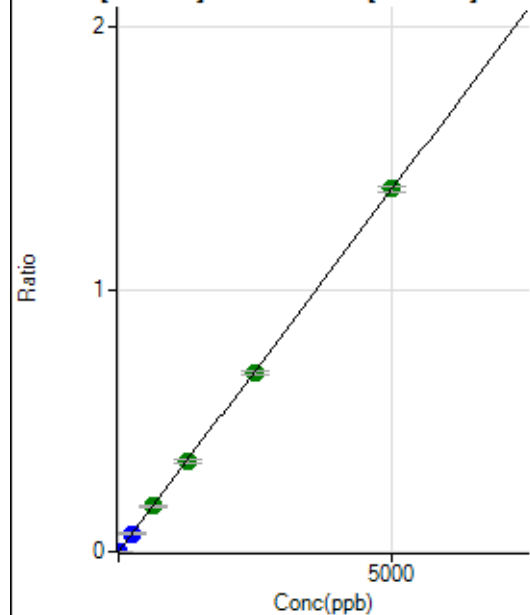
$$R = 0.9999$$

$$DL = 0.03159$$

$$BEC = 0.02601$$

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	47.22	0.0000	P	54.9
2	☐	10.000	10.121	30034.20	0.0028	P	5.6
3	☐	250.000	252.105	755596.90	0.0696	P	2.5
4	☐	625.000	630.325	1975555.30	0.1739	A	4.4
5	☐	1250.000	1237.782	3873680.21	0.3415	A	4.7
6	☐	2500.000	2481.113	7610718.48	0.6845	A	2.3
7	☐	5000.000	5011.727	15716084.21	1.3827	A	1.6
8	☐			6979.81	0.0007	P	4.7

$$y = 2.7589E-004 * x + 4.4077E-006$$

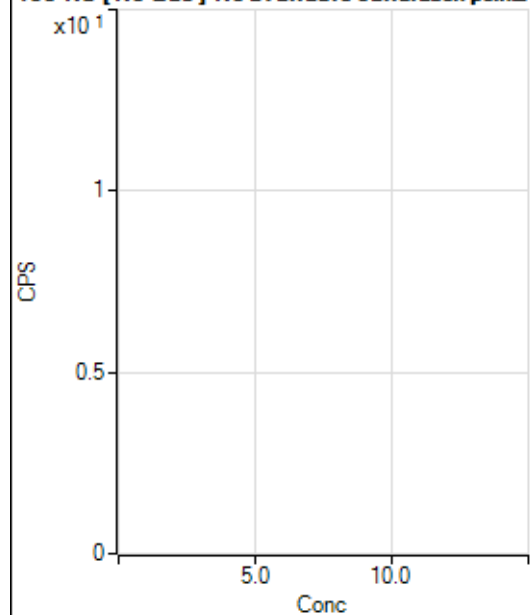
$$R = 1.0000$$

$$DL = 0.02632$$

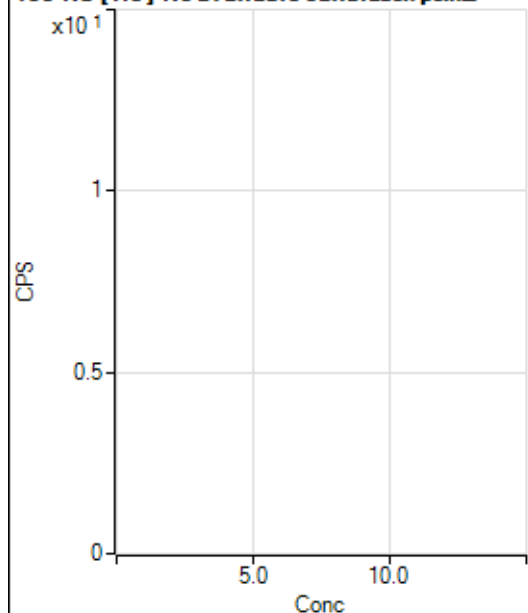
$$BEC = 0.01598$$

Weight: <None>

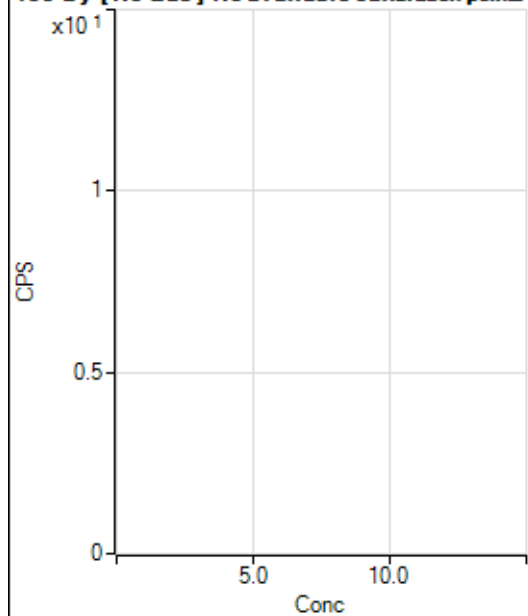
Min Conc: 0

150 Nd [No Gas] No available calibration points

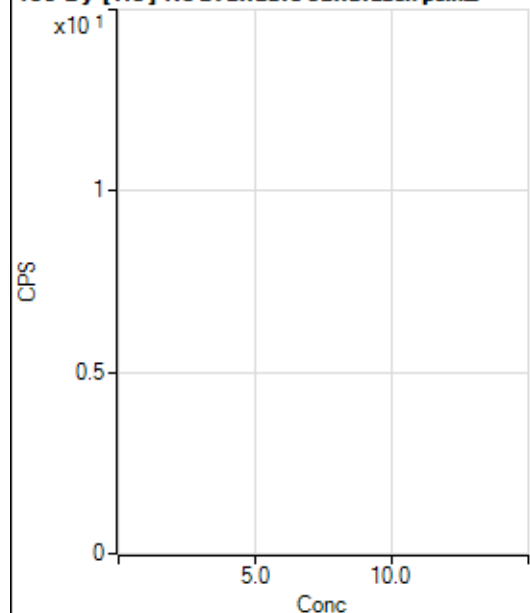
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			11.11		P	34.6
2	☐			17.78		P	21.7
3	☐			40.00		P	92.8
4	☐			73.34		P	24.1
5	☐			106.67		P	10.8
6	☐			260.01		P	6.8
7	☐			571.14		P	17.5
8	☐			68.89		P	36.6

150 Nd [He] No available calibration points

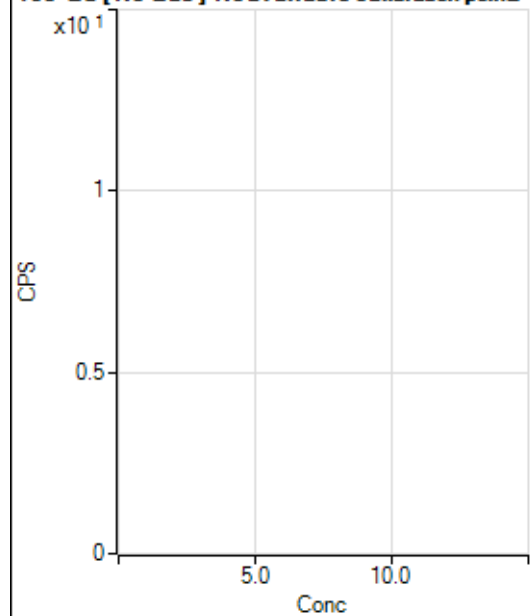
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.2
2	☐			4.44		P	43.4
3	☐			0.00		P	
4	☐			4.44		P	114.6
5	☐			14.44		P	13.4
6	☐			23.33		P	14.3
7	☐			54.44		P	14.1
8	☐			35.55		P	37.9

156 Dy [No Gas] No available calibration points

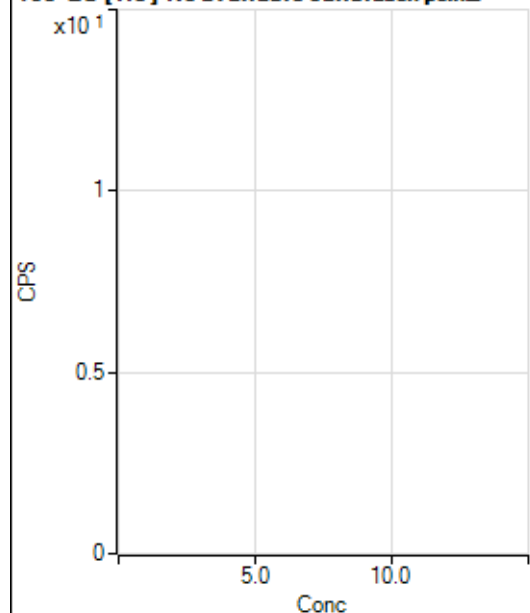
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.33		P	173.2
2	☐			8.33		P	100.0
3	☐			19.44		P	65.5
4	☐			44.45		P	10.8
5	☐			97.22		P	30.1
6	☐			175.01		P	9.5
7	☐			352.79		P	7.6
8	☐			763.94		P	16.0

156 Dy [He] No available calibration points

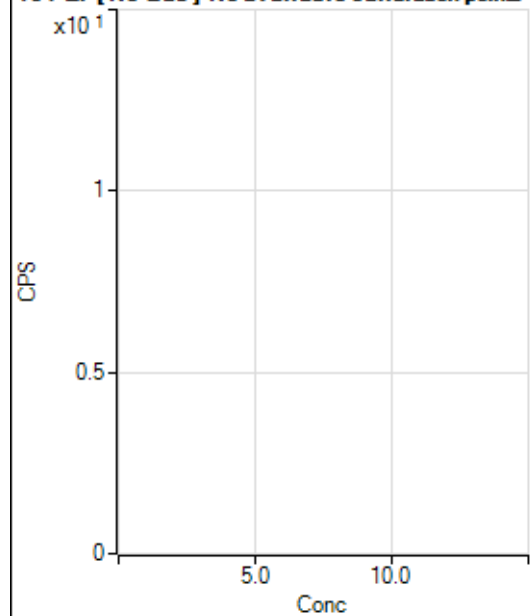
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			2.22		P	86.6
3	☐			7.78		P	107.8
4	☐			23.33		P	24.7
5	☐			35.56		P	28.6
6	☐			61.11		P	28.0
7	☐			130.00		P	20.0
8	☐			346.68		P	5.8

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

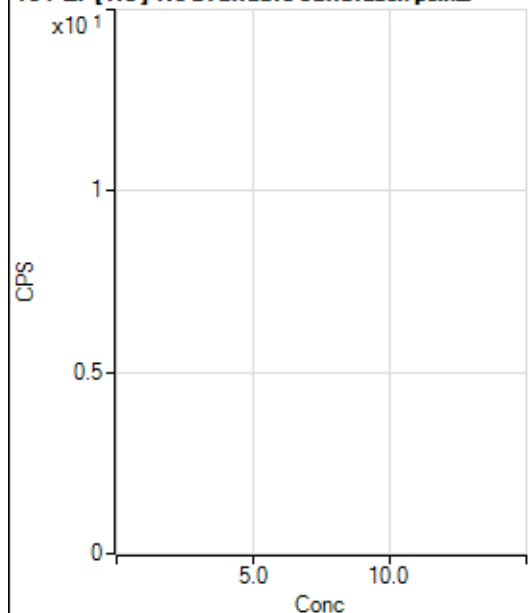
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			86.12		P	5.6
2	☐			72.23		P	24.0
3	☐			83.34		P	30.0
4	☐			122.23		P	7.9
5	☐			100.00		P	58.3
6	☐			125.00		P	17.6
7	☐			250.01		P	8.8
8	☐			513.92		P	5.0

160 Gd [He] No available calibration points

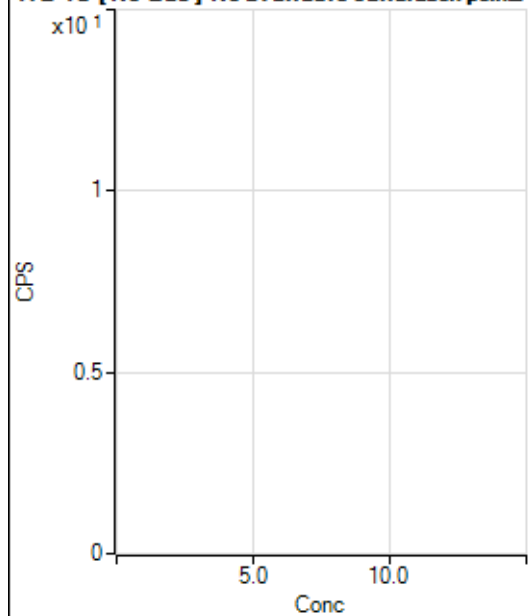
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			93.34		P	12.9
2	☐			104.44		P	22.6
3	☐			101.11		P	15.6
4	☐			103.34		P	3.2
5	☐			102.22		P	16.4
6	☐			126.67		P	16.0
7	☐			186.67		P	9.4
8	☐			396.68		P	12.9

164 Er [No Gas] No available calibration points

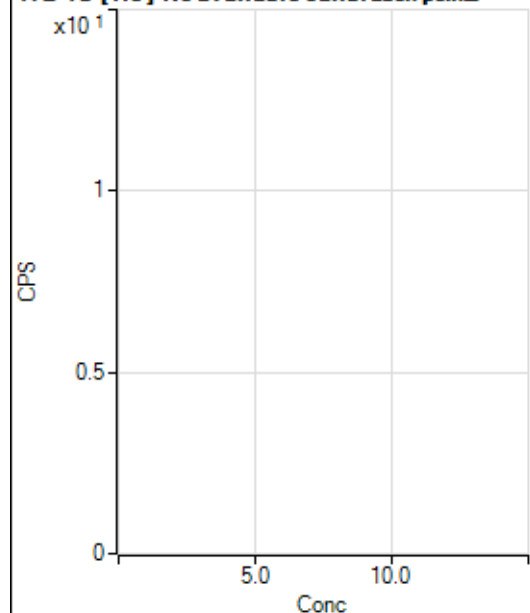
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			61.11		P	15.7
2	☐			36.11		P	87.4
3	☐			61.11		P	7.9
4	☐			55.56		P	17.3
5	☐			50.00		P	60.1
6	☐			69.45		P	25.0
7	☐			141.67		P	5.9
8	☐			130.56		P	13.3

164 Er [He] No available calibration points

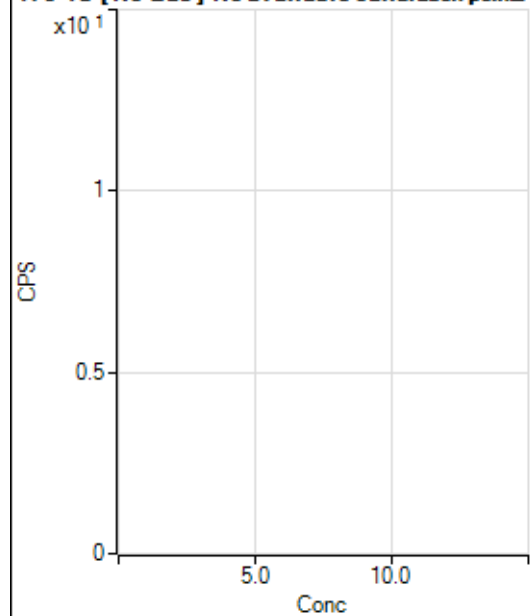
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			22.22		P	43.3
2	☐			16.66		P	34.6
3	☐			18.89		P	66.8
4	☐			24.44		P	20.8
5	☐			26.67		P	12.5
6	☐			43.33		P	20.3
7	☐			56.67		P	23.5
8	☐			48.89		P	3.9

172 Yb [No Gas] No available calibration points

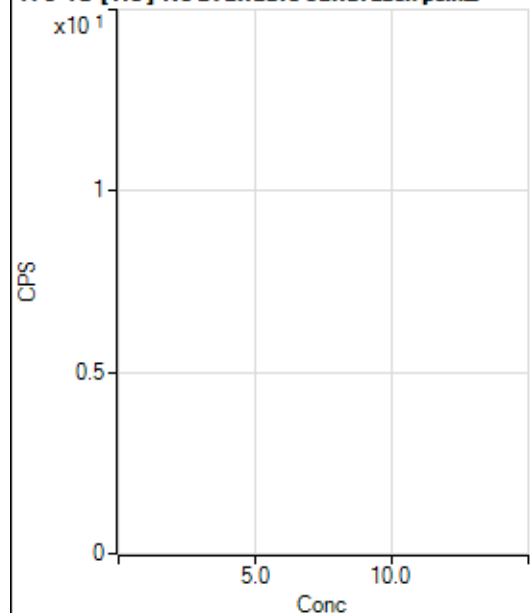
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			50.00		P	16.7
2	☐			58.34		P	37.8
3	☐			44.44		P	60.3
4	☐			72.22		P	54.5
5	☐			86.11		P	36.6
6	☐			80.56		P	33.3
7	☐			136.11		P	7.1
8	☐			133.34		P	22.5

172 Yb [He] No available calibration points

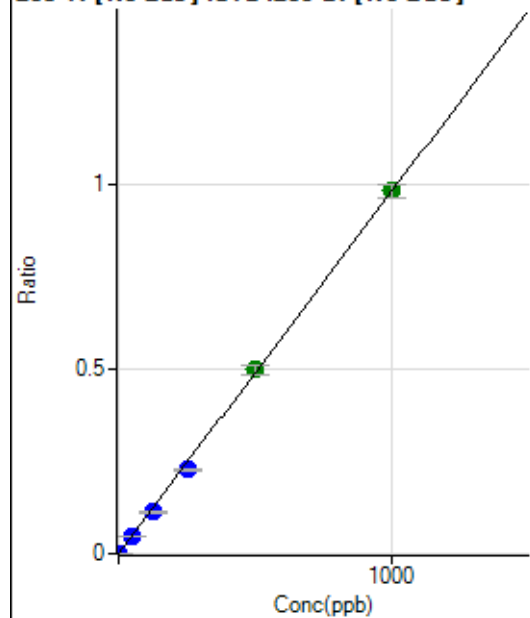
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			16.67		P	66.6
2	☐			38.89		P	51.5
3	☐			33.34		P	86.6
4	☐			25.93		P	12.4
5	☐			42.59		P	27.2
6	☐			37.04		P	8.7
7	☐			70.37		P	29.9
8	☐			87.04		P	16.1

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1675.16		P	1.8
2	☐			1577.91		P	7.3
3	☐			2172.46		P	4.2
4	☐			3378.30		P	6.9
5	☐			4926.06		P	7.4
6	☐			8149.95		P	3.3
7	☐			14972.75		P	1.8
8	☐			1680.71		P	4.5

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			7398.53		P	3.7
2	☐			7383.69		P	3.8
3	☐			8215.69		P	8.7
4	☐			7972.92		P	5.2
5	☐			8940.23		P	4.9
6	☐			10565.55		P	4.1
7	☐			14510.04		P	2.6
8	☐			7717.22		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	927.84	0.0002	P	15.4
2	☐	1.000	0.876	6037.69	0.0010	P	5.1
3	☐	50.000	47.275	274097.91	0.0465	P	3.4
4	☐	125.000	114.465	675428.75	0.1124	P	3.1
5	☐	250.000	231.145	1362262.47	0.2268	P	3.5
6	☐	500.000	507.444	2890020.83	0.4978	A	4.9
7	☐	1000.000	1002.445	5712237.46	0.9833	A	4.0
8	☐			2272.49	0.0005	P	10.6

$$y = 9.8070E-004 * x + 1.5628E-004$$

$$R = 0.9997$$

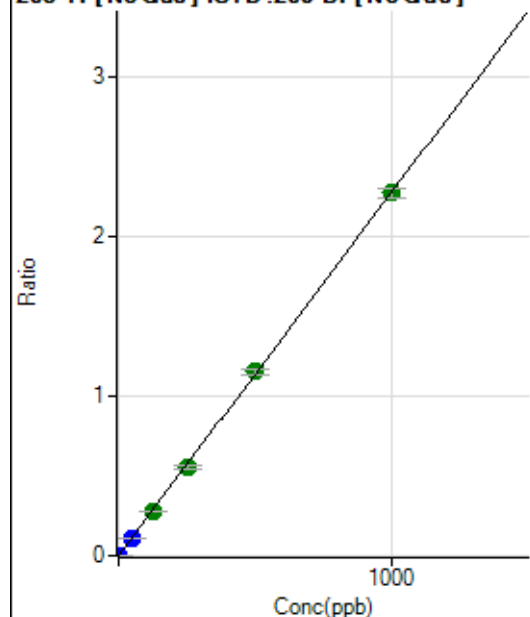
$$DL = 0.07371$$

$$BEC = 0.1594$$

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	2169.69	0.0004	P	4.4
2	☐	1.000	0.919	14636.51	0.0025	P	1.7
3	☐	50.000	47.975	645734.83	0.1097	P	7.0
4	☐	125.000	122.720	1683691.75	0.2801	A	1.7
5	☐	250.000	243.647	3338171.23	0.5558	A	3.1
6	☐	500.000	506.403	6706186.09	1.1548	A	3.3
7	☐	1000.000	998.773	13233483.37	2.2773	A	2.9
8	☐			5801.49	0.0012	P	7.0

$$y = 0.0023 * x + 3.6481E-004$$

$$R = 0.9999$$

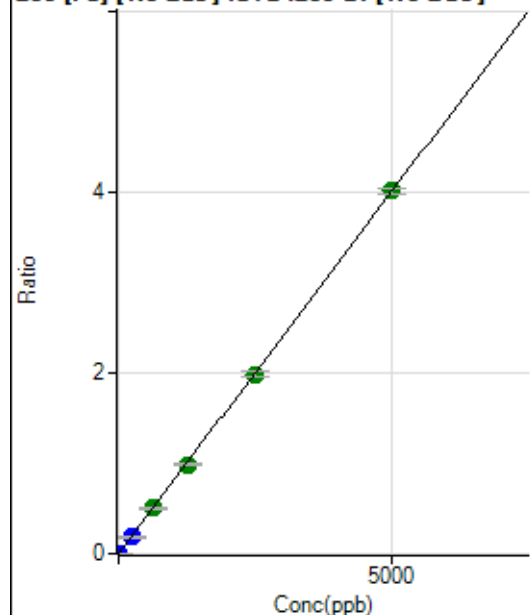
$$DL = 0.02109$$

$$BEC = 0.16$$

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	1372.33	0.0002	P	10.5
2	☐	1.000	0.904	5675.43	0.0010	P	4.0
3	☐	250.000	229.964	1084715.35	0.1844	P	7.5
4	☐	625.000	624.819	3007693.12	0.5005	A	3.1
5	☐	1250.000	1227.476	5905255.92	0.9831	A	1.9
6	☐	2500.000	2482.659	11545512.76	1.9881	A	3.4
7	☐	5000.000	5015.326	23342379.92	4.0159	A	1.7
8	☐			4827.01	0.0010	P	14.7

$$y = 8.0068E-004 * x + 2.3103E-004$$

$$R = 1.0000$$

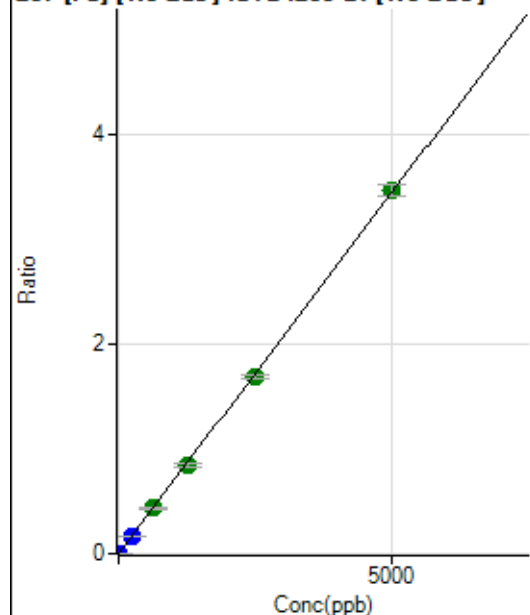
$$DL = 0.09083$$

$$BEC = 0.2885$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1125.99	0.0002	P	7.8
2	☐	1.000	0.953	5030.70	0.0008	P	7.0
3	☐	250.000	232.180	943706.56	0.1602	P	4.8
4	☐	625.000	628.021	2602322.89	0.4331	A	3.7
5	☐	1250.000	1223.213	5065701.21	0.8434	A	2.9
6	☐	2500.000	2453.254	9823614.57	1.6913	A	2.6
7	☐	5000.000	5030.583	20151681.93	3.4680	A	3.0
8	☐			4176.73	0.0009	P	10.5

$$y = 6.8935E-004 * x + 1.8950E-004$$

$$R = 0.9999$$

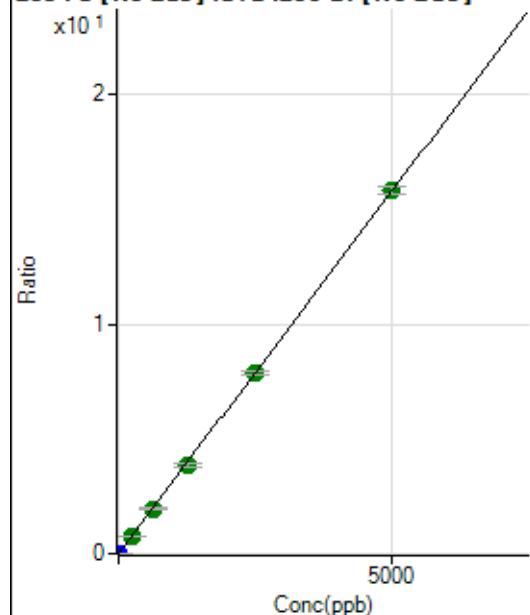
$$DL = 0.06435$$

$$BEC = 0.2749$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	5048.62	0.0008	P	5.5
2	☐	1.000	0.955	22962.17	0.0039	P	4.1
3	☐	250.000	239.951	4463976.80	0.7581	A	5.1
4	☐	625.000	623.004	11818839.76	1.9669	A	3.2
5	☐	1250.000	1219.867	23127370.71	3.8505	A	2.6
6	☐	2500.000	2495.513	45747675.56	7.8762	A	2.4
7	☐	5000.000	5010.529	91904237.01	15.8131	A	2.1
8	☐			18967.28	0.0039	P	13.2

$$y = 0.0032 * x + 8.4940E-004$$

$$R = 1.0000$$

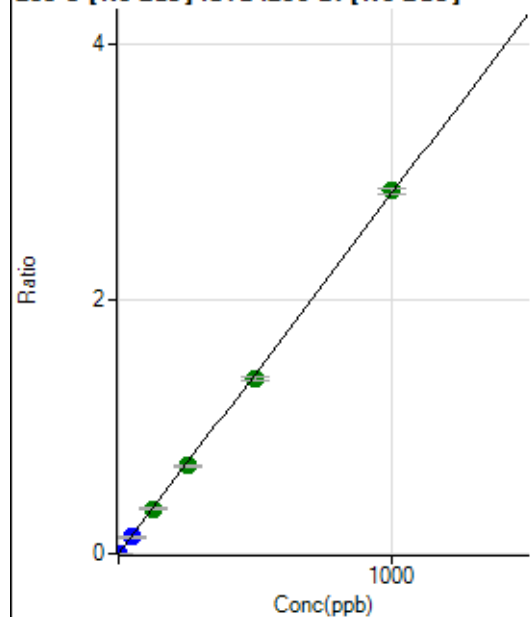
$$DL = 0.04481$$

$$BEC = 0.2692$$

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	25.00	0.0000	P	33.8
2	☐	1.000	0.924	15576.75	0.0026	P	3.1
3	☐	50.000	45.454	757678.65	0.1286	P	4.6
4	☐	125.000	123.675	2102955.25	0.3500	A	3.7
5	☐	250.000	243.813	4144460.60	0.6900	A	3.0
6	☐	500.000	487.627	8016415.11	1.3800	A	2.3
7	☐	1000.000	1008.126	16589552.98	2.8531	A	1.3
8	☐			1155.68	0.0002	P	42.4

$$y = 0.0028 * x + 4.2122E-006$$

$$R = 0.9999$$

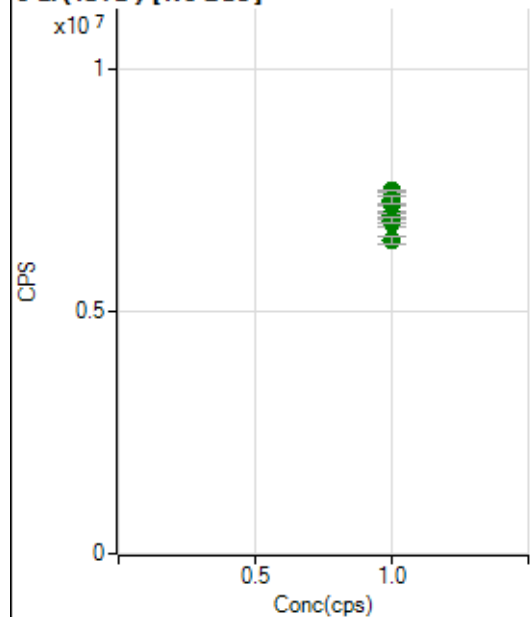
$$DL = 0.00151$$

$$BEC = 0.001488$$

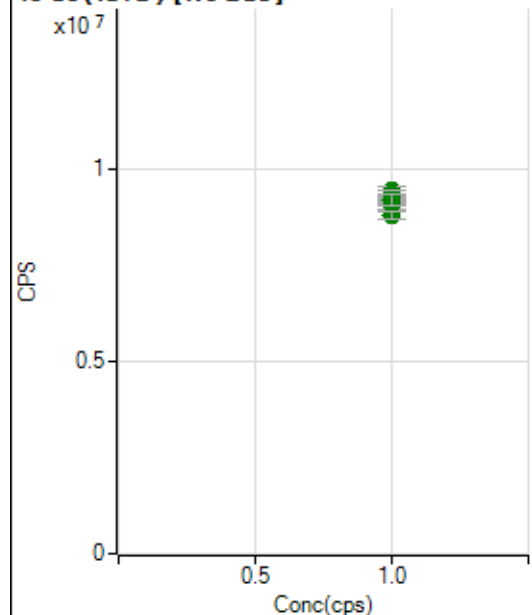
Weight: <None>

Min Conc: 0

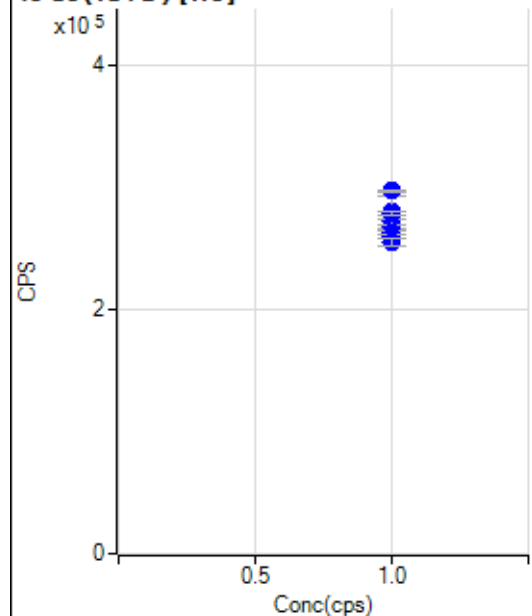
6 Li (ISTD) [No Gas]



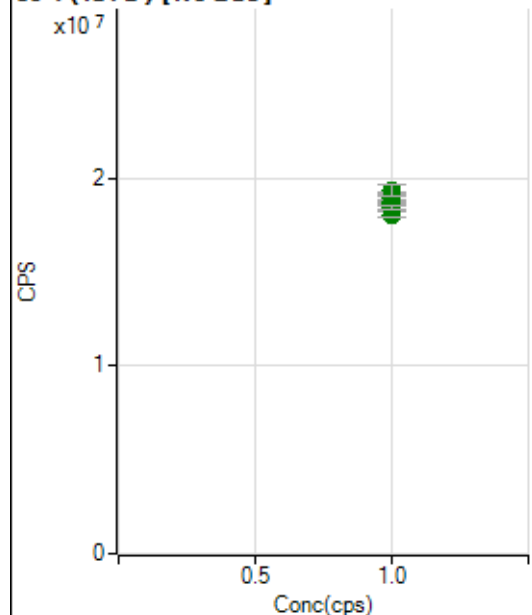
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7490330.13		A	0.6
2	☐	1.000		7283448.75		A	2.4
3	☐	1.000		7213175.92		A	4.6
4	☐	1.000		7299634.49		A	2.3
5	☐	1.000		6982074.91		A	1.7
6	☐	1.000		6848185.81		A	2.4
7	☐	1.000		6875604.99		A	1.6
8	☐	1.000		6478184.25		A	2.3

45 Sc (ISTD) [No Gas]

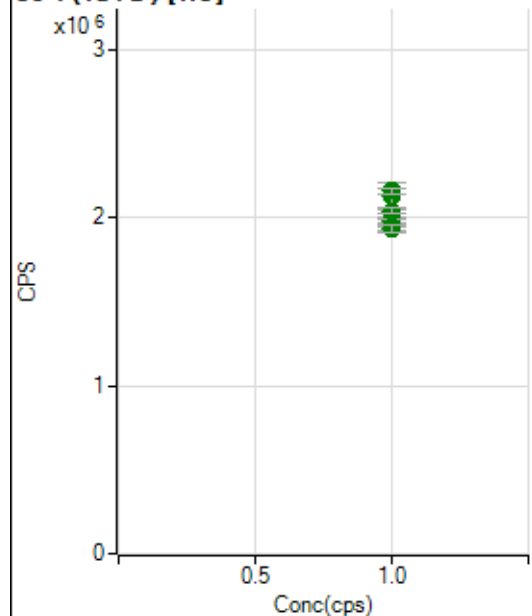
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9112546.04		A	1.1
2	☐	1.000		9113252.43		A	3.6
3	☐	1.000		9185039.79		A	1.2
4	☐	1.000		9375261.66		A	3.9
5	☐	1.000		9438866.94		A	2.5
6	☐	1.000		8817709.52		A	2.2
7	☐	1.000		9351295.14		A	1.7
8	☐	1.000		9195748.48		A	3.0

45 Sc (ISTD) [He]

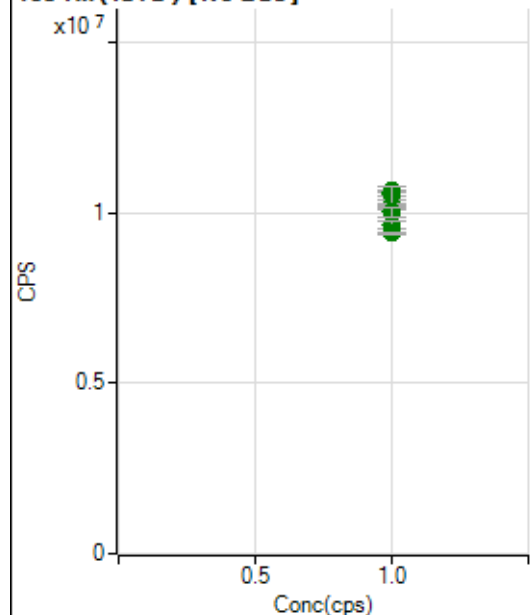
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		267583.02		P	0.8
2	☐	1.000		271713.52		P	1.6
3	☐	1.000		280437.26		P	8.2
4	☐	1.000		262069.21		P	1.2
5	☐	1.000		260280.96		P	1.1
6	☐	1.000		254994.71		P	2.1
7	☐	1.000		278824.67		P	1.4
8	☐	1.000		296888.02		P	0.5

89 Y (ISTD) [No Gas]

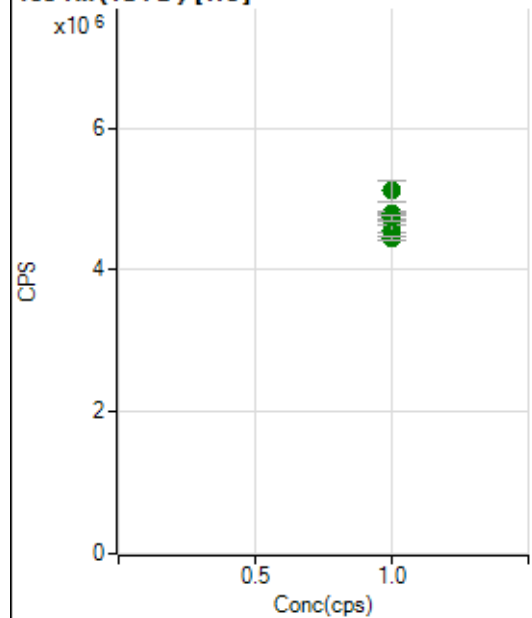
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		18757372.08		A	1.1
2	☐	1.000		18649036.11		A	4.2
3	☐	1.000		18974681.10		A	2.6
4	☐	1.000		18873471.67		A	0.2
5	☐	1.000		18764296.53		A	4.3
6	☐	1.000		18083905.29		A	1.4
7	☐	1.000		19335337.07		A	3.2
8	☐	1.000		18454484.17		A	0.8

89 Y (ISTD) [He]

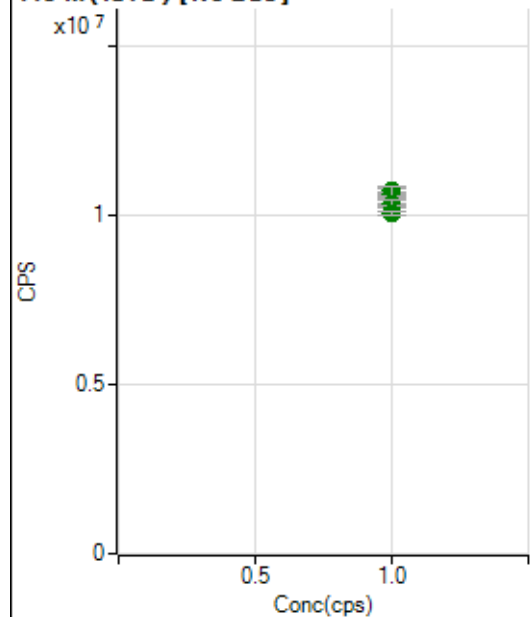
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1937916.55		A	1.1
2	☐	1.000		1986945.63		A	1.2
3	☐	1.000		2128438.73		A	7.2
4	☐	1.000		1975493.62		A	2.2
5	☐	1.000		1934097.14		A	2.8
6	☐	1.000		1938487.42		A	2.4
7	☐	1.000		2044010.04		A	1.5
8	☐	1.000		2160479.27		A	1.9

103 Rh (ISTD) [No Gas]

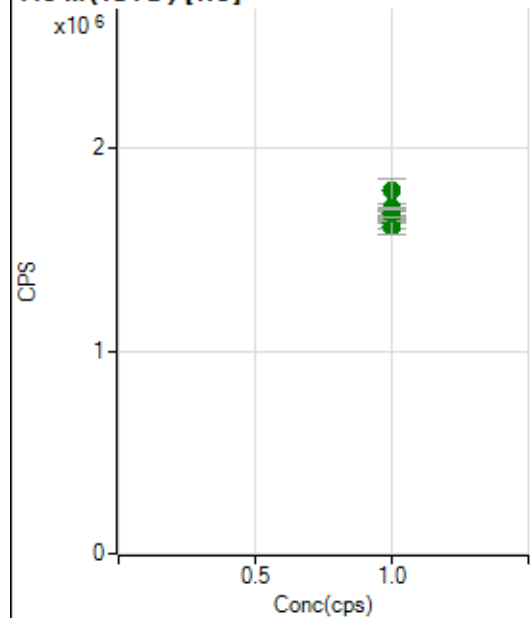
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10634368.21		A	0.5
2	☐	1.000		10269243.81		A	3.8
3	☐	1.000		10270698.67		A	1.4
4	☐	1.000		10576830.79		A	1.6
5	☐	1.000		10521415.68		A	5.0
6	☐	1.000		9634991.53		A	1.9
7	☐	1.000		10018098.92		A	2.9
8	☐	1.000		9400562.97		A	0.8

103 Rh (ISTD) [He]

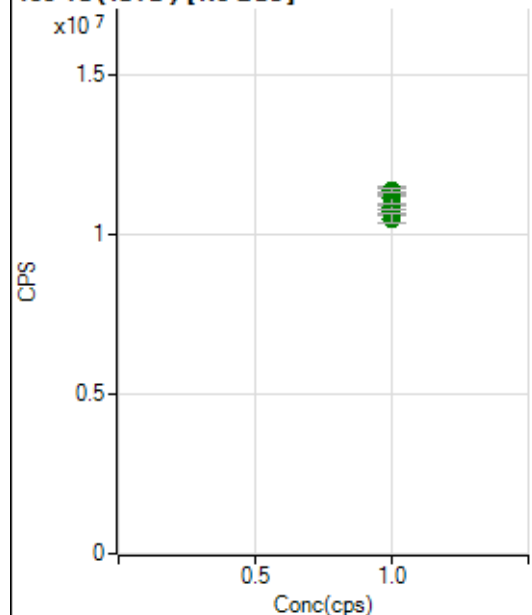
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4749211.11		A	2.3
2	☐	1.000		4793779.06		A	0.8
3	☐	1.000		5112318.47		A	5.8
4	☐	1.000		4679059.90		A	1.4
5	☐	1.000		4629661.15		A	4.1
6	☐	1.000		4550198.37		A	3.8
7	☐	1.000		4728942.81		A	1.8
8	☐	1.000		4441628.48		A	1.6

115 In (ISTD) [No Gas]

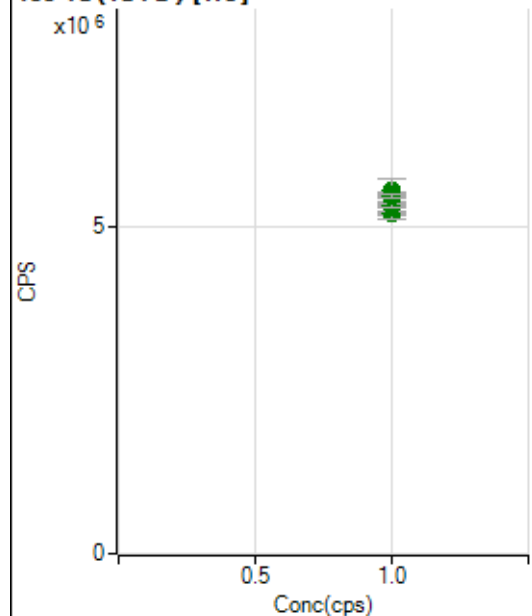
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10568699.32		A	0.8
2	☐	1.000		10592229.59		A	1.5
3	☐	1.000		10621507.70		A	0.4
4	☐	1.000		10644348.51		A	2.6
5	☐	1.000		10734916.48		A	2.6
6	☐	1.000		10288995.37		A	1.4
7	☐	1.000		10374350.29		A	1.5
8	☐	1.000		10054077.42		A	0.9

115 In (ISTD) [He]

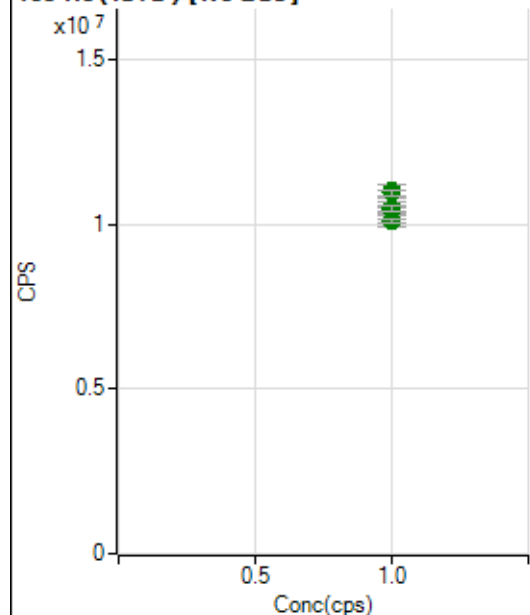
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1672947.62		A	0.1
2	☐	1.000		1699273.77		A	1.0
3	☐	1.000		1789008.11		A	6.9
4	☐	1.000		1641075.43		A	0.9
5	☐	1.000		1632055.12		A	3.4
6	☐	1.000		1608553.46		A	4.2
7	☐	1.000		1677232.03		A	2.2
8	☐	1.000		1702744.98		A	0.3

159 Tb (ISTD) [No Gas]

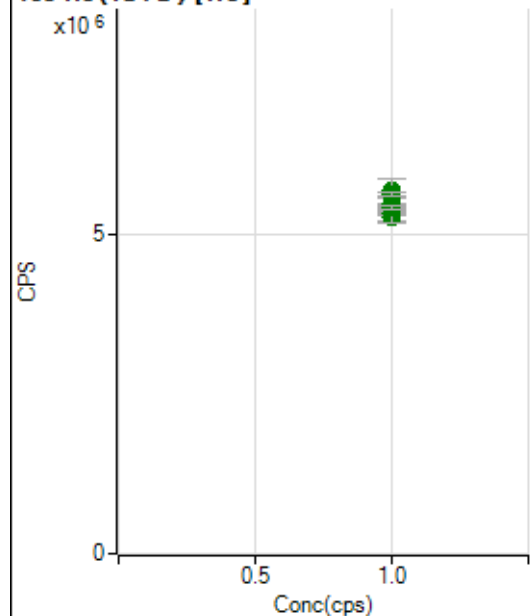
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10771881.99		A	2.1
2	☐	1.000		10751198.87		A	3.0
3	☐	1.000		10865469.84		A	1.7
4	☐	1.000		11368071.50		A	2.9
5	☐	1.000		11352882.61		A	2.8
6	☐	1.000		11122545.81		A	2.6
7	☐	1.000		11367914.14		A	1.2
8	☐	1.000		10506211.02		A	2.9

159 Tb (ISTD) [He]

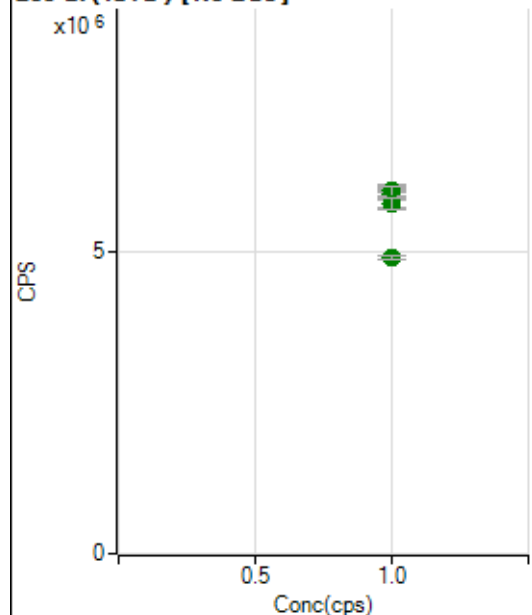
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5213529.26		A	1.6
2	☐	1.000		5328264.09		A	4.3
3	☐	1.000		5559449.01		A	6.3
4	☐	1.000		5219210.65		A	4.1
5	☐	1.000		5316864.75		A	2.4
6	☐	1.000		5339347.00		A	1.0
7	☐	1.000		5516151.24		A	0.9
8	☐	1.000		5479806.10		A	0.9

165 Ho (ISTD) [No Gas]

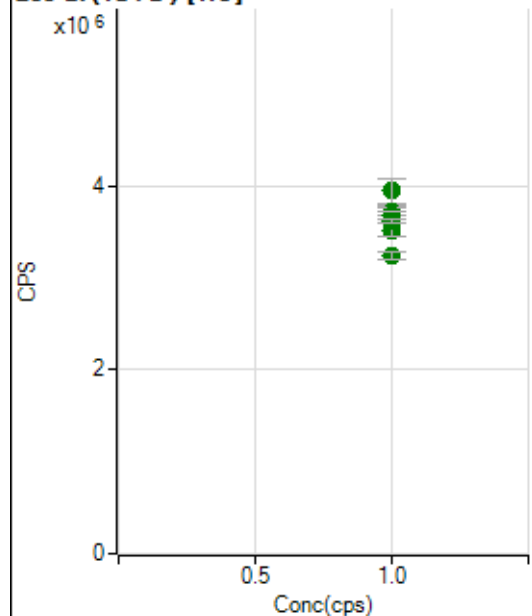
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10341344.59		A	0.5
2	☐	1.000		10130308.04		A	3.3
3	☐	1.000		10413955.18		A	2.6
4	☐	1.000		10525779.84		A	3.1
5	☐	1.000		11032124.29		A	3.4
6	☐	1.000		10476400.23		A	1.6
7	☐	1.000		10971330.97		A	1.6
8	☐	1.000		10122994.58		A	1.1

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5274678.67		A	2.5
2	☐	1.000		5344008.81		A	1.6
3	☐	1.000		5689606.48		A	6.8
4	☐	1.000		5372258.04		A	2.4
5	☐	1.000		5478383.50		A	3.5
6	☐	1.000		5271218.36		A	3.3
7	☐	1.000		5642122.00		A	0.9
8	☐	1.000		5440288.95		A	1.0

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5946727.97		A	1.6
2	☐	1.000		5949627.14		A	2.7
3	☐	1.000		5899117.21		A	5.3
4	☐	1.000		6012306.65		A	3.0
5	☐	1.000		6008997.06		A	2.6
6	☐	1.000		5810514.91		A	2.7
7	☐	1.000		5814534.71		A	3.3
8	☐	1.000		4905566.94		A	1.6

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3651501.65		A	2.3
2	☐	1.000		3730813.69		A	2.8
3	☐	1.000		3950608.86		A	6.6
4	☐	1.000		3718697.83		A	2.2
5	☐	1.000		3681844.08		A	2.6
6	☐	1.000		3525342.20		A	4.1
7	☐	1.000		3613241.82		A	1.2
8	☐	1.000		3243732.21		A	2.1

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP8072722 MS.b

Acq. Date-Time 2022-07-27 11:18:42

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		22308	223078.58			2.258	5.000
24		151857	1518571.13			1.937	5.000
25		20028	200276.25			2.079	5.000
26		23190	231899.94			1.537	5.000
59		34723	347233.44			2.131	5.000
113		13621	136206.04			2.164	5.000
115		39003	390025.16			1.745	5.000
206		12988	129878.18			2.135	5.000
207		10908	109076.01			1.936	5.000
208		27079	270787.72			2.098	5.000
220		1	6.40			29.954	

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

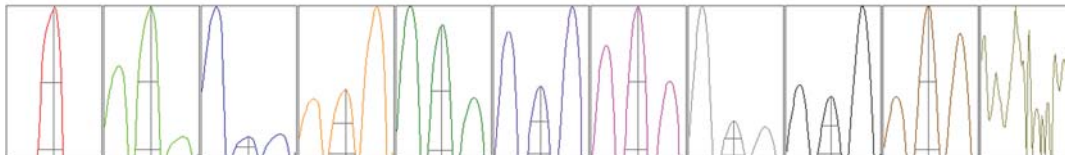
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	22016	22578	22862	22494	21590
24	148588	153874	153992	154145	148687
25	19847	20194	20551	20111	19435
26	22877	23327	23582	23409	22755
59	33992	34761	35657	35217	33990
113	13391	13611	14031	13771	13299
115	38743	39199	40033	38850	38188
206	12522	13007	13190	13210	13010
207	10558	10883	11087	11052	10958
208	26321	26911	27642	27651	26869

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	0

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	37636.93	9.00	8.90 - 9.10	
24	255989.34	24.00	23.90 - 24.10	
25	33503.28	25.00	24.90 - 25.10	
26	38617.42	26.00	25.90 - 26.10	
59	62690.60	58.95	58.90 - 59.10	
113	26744.56	113.00	112.90 - 113.10	
115	76439.74	115.00	114.90 - 115.10	
206	25697.59	205.95	205.90 - 206.10	
207	21632.51	206.95	206.90 - 207.10	
208	53473.60	207.95	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.63	0.782	0.900	
24	0.64	0.787	0.900	
25	0.62	0.790	0.900	
26	0.63	0.830	0.900	
59	0.58	0.778	0.900	
113	0.54	0.695	0.900	
115	0.53	0.726	0.900	
206	0.53	0.755	0.900	
207	0.52	0.737	0.900	
208	0.52	0.773	0.900	
220				

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.82 L/min Dilution Gas 0.40 L/min

US EPA Tune Check Report

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

Lens Parameters

Extract 1	-6.0 V	Omega Lens	8.2 V	Deflect	14.2 V
Extract 2	-155.0 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	140 V		

QP Parameters

Mass Gain	125	Axis Gain	0.9992	QP Bias	-4.0 V
Mass Offset	124	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	0.2 mm	Torch V	-0.6 mm
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EM

Discriminator	4.6 mV	Analog HV	2302 V	Pulse HV	1645 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		6860	68600.89			0.570	
89		39798	397984.85			0.515	
205		34090	340902.92			0.500	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	6844	6817	6842	6917	6882
89	39898	39452	39903	39961	39778
205	34302	34106	33832	34061	34151

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.82 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	8.2 V	Deflect	4.6 V
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US EPA Tune Check Report

Extract 2	-155.0 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	125	Axis Gain	0.9992	QP Bias	-13.0 V
Mass Offset	124	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	0.2 mm	Torch V	-0.6 mm
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EM

Discriminator	4.6 mV	Analog HV	2302 V	Pulse HV	1645 V
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