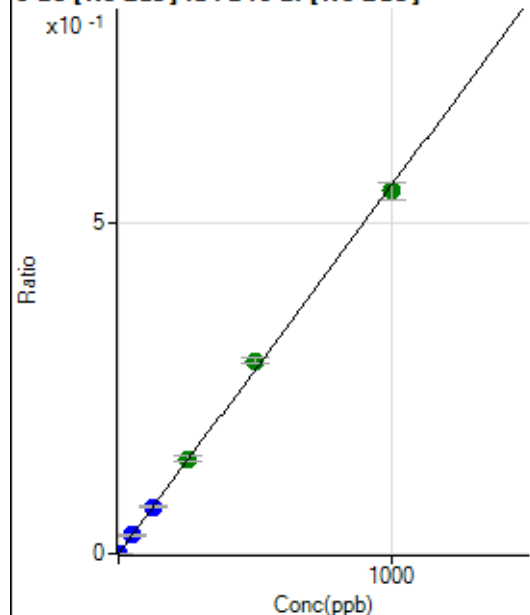


Calibration for 004CALB.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P8033022-MS.b\
 Analysis File: P8033022-MS.batch.bin
 DA Date-Time: 2022-03-30 17:44:58
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2022-03-30 15:39:52
2	006CALS.d	S02	2022-03-30 15:46:02
3	007CALS.d	S03	2022-03-30 15:49:04
4	008CALS.d	S04	2022-03-30 15:52:10
5	009CALS.d	S05	2022-03-30 15:55:13
6	010CALS.d	S06	2022-03-30 15:58:18
7	011CALS.d	S07	2022-03-30 16:01:21
8	012CALS.d	S08	2022-03-30 16:04:27

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	30.66	0.0000	P	9.7
2	☐	1.000	1.042	4024.44	0.0006	P	4.3
3	☐	50.000	50.365	194630.06	0.0281	P	6.0
4	☐	125.000	127.143	486165.17	0.0708	P	3.2
5	☐	250.000	257.994	993730.49	0.1437	A	4.9
6	☐	500.000	524.312	1892831.98	0.2921	A	3.5
7	☐	1000.000	985.559	3606955.16	0.5491	A	4.5
8	☐			324.61	0.0001	P	11.5

$$y = 5.5716\text{E-}004 * x + 4.4724\text{E-}006$$

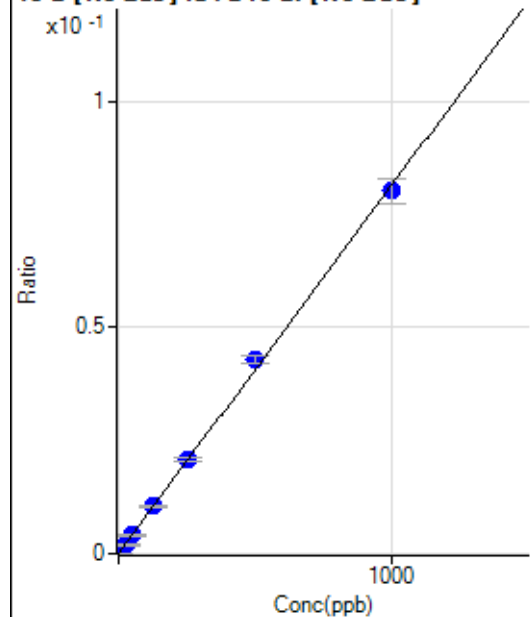
$$R = 0.9995$$

$$DL = 0.002326$$

$$BEC = 0.008027$$

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	298.61	0.0000	P	5.8
2	☐	25.000	23.450	13422.35	0.0020	P	7.1
3	☐	50.000	49.961	28473.31	0.0041	P	8.0
4	☐	125.000	127.695	71561.84	0.0104	P	6.6
5	☐	250.000	254.103	143235.64	0.0207	P	4.6
6	☐	500.000	526.698	277943.04	0.0429	P	4.2
7	☐	1000.000	985.329	526377.86	0.0802	P	6.8
8	☐			50969.86	0.0080	P	8.3

$$y = 8.1354\text{E-}005 * x + 4.3559\text{E-}005$$

$$R = 0.9994$$

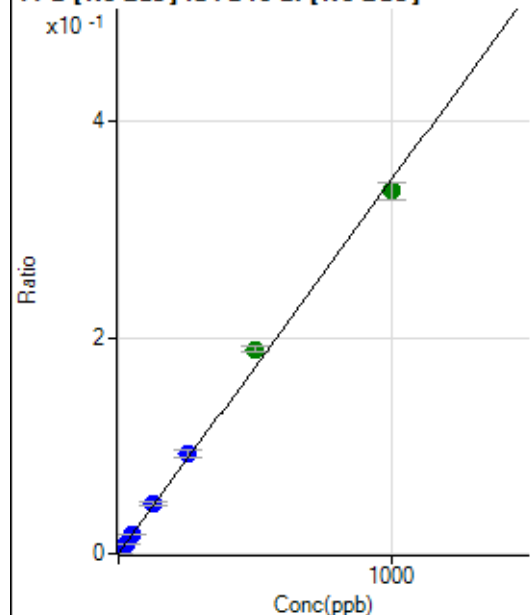
$$DL = 0.09304$$

$$BEC = 0.5354$$

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	1292.47	0.0002	P	4.5
2	☐	25.000	25.288	61374.97	0.0089	P	7.8
3	☐	50.000	51.879	125591.56	0.0181	P	5.9
4	☐	125.000	131.917	313865.48	0.0458	P	7.6
5	☐	250.000	267.328	639563.17	0.0925	P	7.8
6	☐	500.000	547.690	1227542.74	0.1894	A	3.2
7	☐	1000.000	970.857	2203129.20	0.3356	A	5.1
8	☐			230999.95	0.0360	P	10.5

$$y = 3.4545\text{E-}004 * x + 1.8867\text{E-}004$$

$$R = 0.9980$$

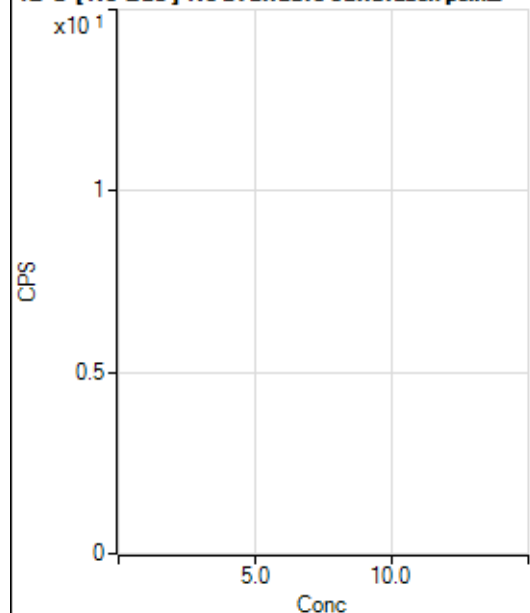
$$DL = 0.07336$$

$$BEC = 0.5461$$

Weight: <None>

Min Conc: 0

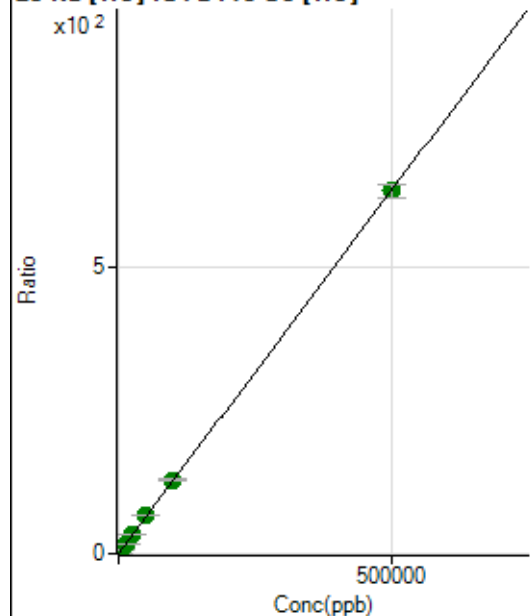
12 C [No Gas] No available calibration points



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			6583131.40		A	1.5
2	☐			7333862.84		A	2.3
3	☐			7443564.41		A	1.4
4	☐			9480097.61		A	0.7
5	☐			9525188.75		A	2.4
6	☐			11389196.61		A	6.1
7	☐			13080844.56		A	5.6
8	☐			8142201.40		A	3.0

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			70419.83		P	2.1
2	☐			76176.69		P	0.8
3	☐			77187.22		P	0.5
4	☐			101584.21		P	0.7
5	☐			104140.23		P	2.1
6	☐			132885.20		P	1.1
7	☐			162928.61		P	2.5
8	☐			92615.08		P	0.3

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	13453.73	0.0351	P	1.8
2	☐	500.000	495.559	255085.90	0.6620	P	2.8
3	☐	5000.000	5433.195	2605184.91	6.9079	A	3.5
4	☐	12500.000	13782.028	6329064.38	17.4688	A	1.2
5	☐	25000.000	26780.615	12627974.50	33.9115	A	2.5
6	☐	50000.000	52418.700	24900159.24	66.3427	A	2.6
7	☐	100000.00	101509.80	48499567.41	128.4411	A	1.8
8	☐	500000.00	499330.75	245325908.2	631.6694	A	3.6

$$y = 0.0013 * x + 0.0351$$

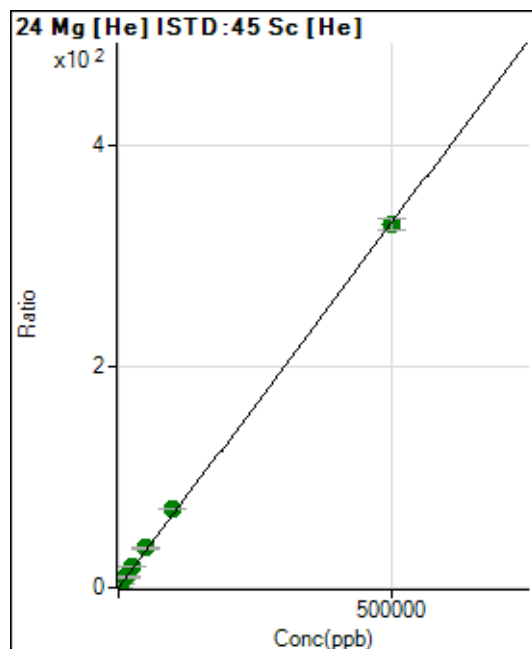
$$R = 1.0000$$

$$DL = 1.503$$

$$BEC = 27.74$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	275.01	0.0007	P	25.3
2	☐	500.000	533.281	135662.64	0.3520	P	2.0
3	☐	5000.000	5852.368	1454287.28	3.8560	A	4.6
4	☐	12500.000	14658.882	3498143.00	9.6574	A	2.3
5	☐	25000.000	28743.190	7052846.51	18.9355	A	1.2
6	☐	50000.000	54754.453	13536849.70	36.0706	A	3.8
7	☐	100000.00	108941.12	27100383.59	71.7665	A	0.8
8	☐	500000.00	497486.64	127254094.5	327.7238	A	3.2

$$y = 6.5876\text{E-}004 * x + 7.2003\text{E-}004$$

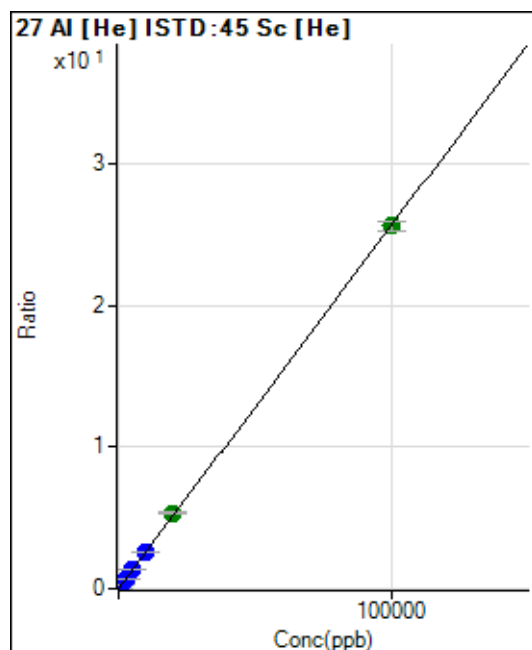
$$R = 0.9998$$

$$DL = 0.8293$$

$$BEC = 1.093$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	78.32	0.0002	P	7.7
2	☐	20.000	20.336	2092.81	0.0054	P	1.2
3	☐	1000.000	1054.911	102302.48	0.2713	P	1.7
4	☐	2500.000	2676.346	249116.84	0.6880	P	3.9
5	☐	5000.000	5107.164	488837.48	1.3126	P	1.6
6	☐	10000.000	10127.650	976798.47	2.6028	P	2.8
7	☐	20000.000	20764.648	2014877.80	5.3362	A	1.8
8	☐	100000.00	99823.989	9960056.36	25.6527	A	2.8

$$y = 2.5698\text{E-}004 * x + 2.0458\text{E-}004$$

$$R = 1.0000$$

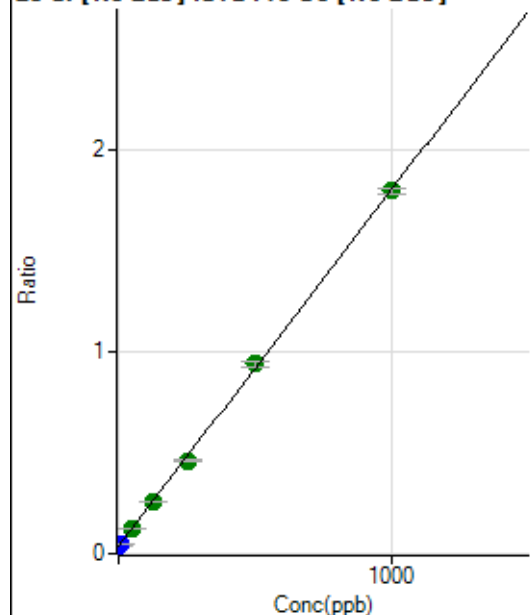
$$DL = 0.1828$$

$$BEC = 0.7961$$

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	538957.84	0.0374	P	1.2
2	☐	10.000	5.256	658012.85	0.0467	P	4.8
3	☐	50.000	48.534	1781719.99	0.1231	A	1.9
4	☐	125.000	125.920	3724237.93	0.2597	A	1.7
5	☐	250.000	239.972	6781277.41	0.4611	A	3.6
6	☐	500.000	511.435	13376442.57	0.9403	A	2.5
7	☐	1000.000	996.795	25849880.44	1.7972	A	1.8
8	☐			1055468.41	0.0758	A	3.8

$$y = 0.0018 * x + 0.0374$$

$$R = 0.9998$$

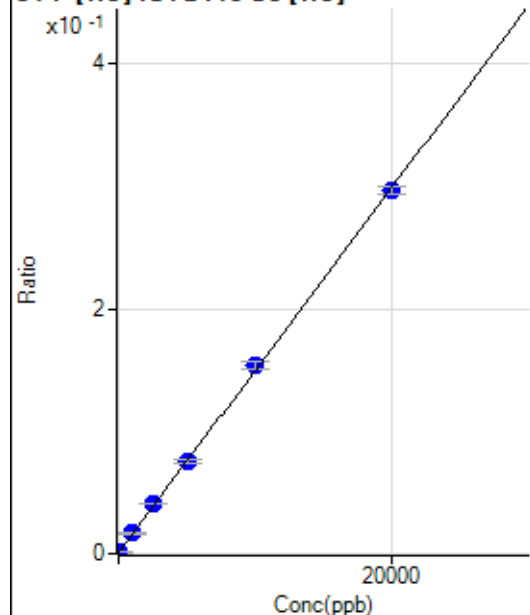
$$DL = 0.7491$$

$$BEC = 21.17$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	-3.025	275.01	0.0007	P	0.1
2	☐	0.000	3.025	311.13	0.0008	P	2.2
3	☐	1000.000	1058.616	6229.31	0.0165	P	4.6
4	☐	2500.000	2693.878	14802.38	0.0408	P	0.2
5	☐	5000.000	5001.250	27994.48	0.0752	P	2.9
6	☐	10000.000	10250.336	57521.87	0.1533	P	3.8
7	☐	20000.000	19847.354	111820.05	0.2961	P	2.3
8	☐			286.12	0.0007	P	25.8

$$y = 1.4879E-005 * x + 7.6243E-004$$

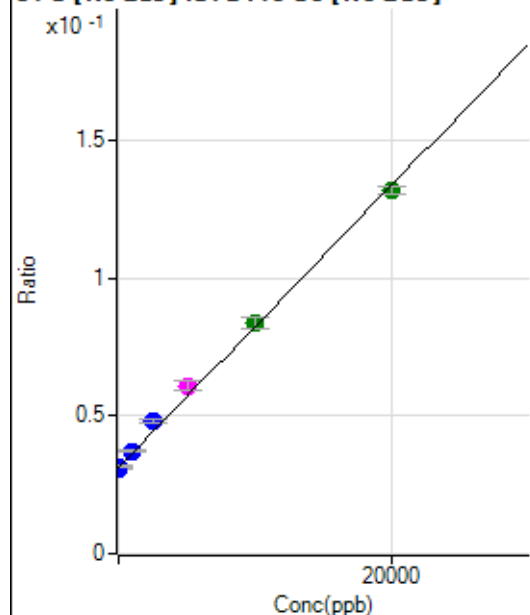
$$R = 0.9998$$

$$DL = 1.903$$

$$BEC = 51.24$$

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	-74.413	445912.01	0.0309	P	1.6
2	☐	0.000	74.413	447040.99	0.0317	P	4.0
3	☐	1000.000	1150.442	538490.20	0.0372	P	1.9
4	☐	2500.000	3282.989	690108.43	0.0481	P	2.7
5	☐	5000.000	5789.776	897078.24	0.0610	M	5.3
6	☐	10000.000	10227.648	1190200.57	0.0837	A	5.5
7	☐	20000.000	19583.336	1894416.75	0.1316	A	2.0
8	☐			344694.08	0.0248	P	4.5

$$y = 5.1235E-006 * x + 0.0313$$

R = 0.9985

DL = 513.9

BEC = 6111

Weight: <None>

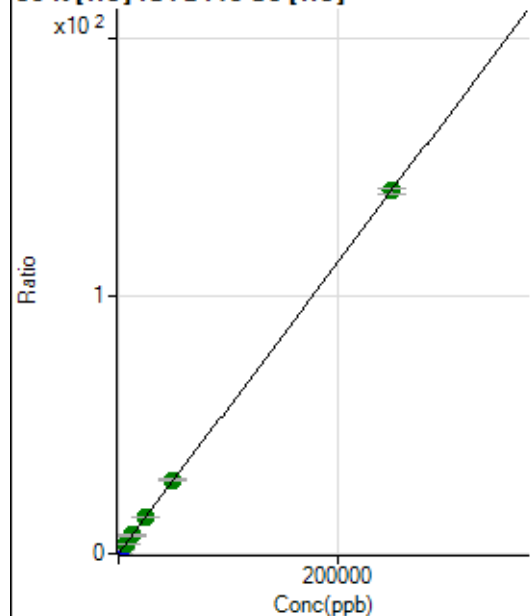
Min Conc: 0

35 Cl [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			293174.70		P	0.6
2	☐			248734.17		P	0.6
3	☐			236702.13		P	1.2
4	☐			222387.03		P	1.0
5	☐			196039.90		P	1.9
6	☐			185474.10		P	0.5
7	☐			189246.12		P	1.4
8	☐			165400.48		P	1.5

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1947.40		P	1.4
2	☐			1697.37		P	1.0
3	☐			1689.04		P	7.6
4	☐			1308.43		P	10.5
5	☐			1341.76		P	3.5
6	☐			1219.53		P	9.2
7	☐			1172.31		P	18.3
8	☐			1183.41		P	9.7

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	19004.60	0.0496	P	5.6
2	☐	500.000	486.420	124831.50	0.3239	P	1.2
3	☐	2500.000	2508.265	552023.33	1.4640	P	2.3
4	☐	6250.000	6615.093	1368807.34	3.7798	A	3.3
5	☐	12500.000	12614.988	2667378.03	7.1630	A	3.3
6	☐	25000.000	24939.489	5296015.92	14.1126	A	3.2
7	☐	50000.000	50424.311	10754168.12	28.4830	A	3.1
8	☐	250000.00	249906.25	54739405.39	140.9672	A	1.5

$$y = 5.6388\text{E-}004 * x + 0.0496$$

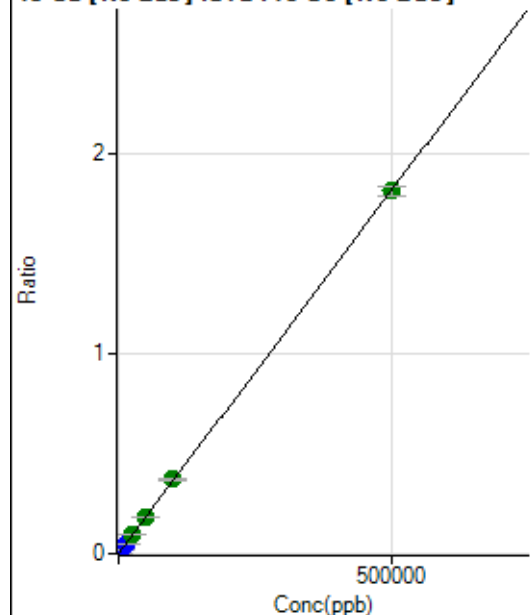
$$R = 1.0000$$

$$DL = 14.72$$

$$BEC = 88$$

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	245.39	0.0000	P	3.6
2	☐	500.000	508.139	26222.67	0.0019	P	5.8
3	☐	5000.000	5169.705	271620.62	0.0188	P	2.4
4	☐	12500.000	12931.519	672846.64	0.0469	P	0.7
5	☐	25000.000	25609.479	1367002.69	0.0929	A	1.5
6	☐	50000.000	51087.502	2636846.88	0.1853	A	1.6
7	☐	100000.00	102029.75	5323722.15	0.3701	A	1.3
8	☐	500000.00	499442.33	25233161.94	1.8116	A	2.9

$$y = 3.6273\text{E-}006 * x + 1.7019\text{E-}005$$

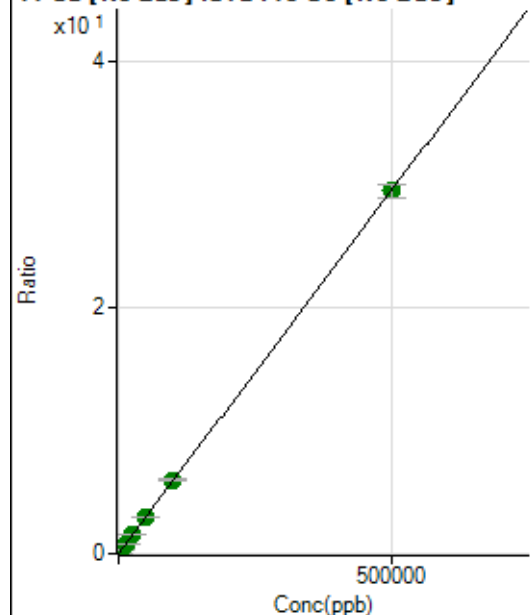
$$R = 1.0000$$

$$DL = 0.5077$$

$$BEC = 4.692$$

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	15346.65	0.0011	P	1.8
2	☐	500.000	507.986	437767.27	0.0310	P	5.1
3	☐	5000.000	5109.835	4380609.36	0.3027	A	2.1
4	☐	12500.000	12996.496	11013947.23	0.7682	A	2.2
5	☐	25000.000	25549.684	22205588.09	1.5091	A	0.7
6	☐	50000.000	50854.999	42717585.37	3.0027	A	2.0
7	☐	100000.00	101724.80	86377904.56	6.0053	A	2.1
8	☐	500000.00	499528.53	410687601.3	29.4852	A	3.6

$$y = 5.9024\text{E-}005 * x + 0.0011$$

$$R = 1.0000$$

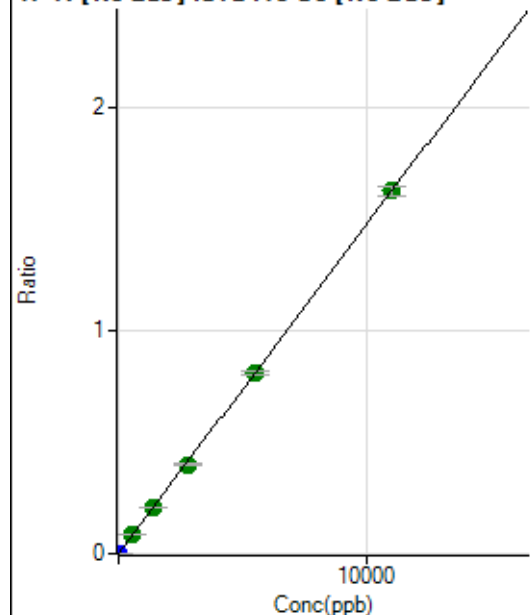
$$DL = 0.9693$$

$$BEC = 18.03$$

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	447.24	0.0000	P	22.2
2	☐	5.000	5.664	12241.73	0.0009	P	2.7
3	☐	550.000	558.969	1195412.03	0.0826	A	1.4
4	☐	1375.000	1378.061	2918481.88	0.2035	A	0.2
5	☐	2750.000	2699.361	5865679.73	0.3986	A	1.2
6	☐	5500.000	5498.480	11549902.69	0.8120	A	2.6
7	☐	11000.000	11012.588	23387807.99	1.6262	A	2.8
8	☐			3778.40	0.0003	P	4.6

$$y = 1.4766E-004 * x + 3.1048E-005$$

$$R = 1.0000$$

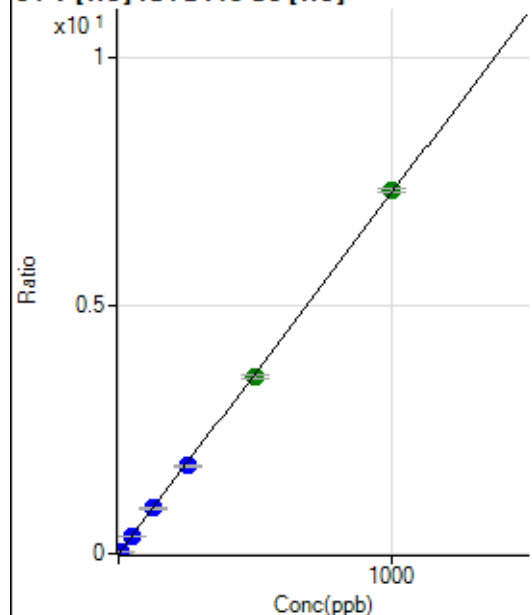
$$DL = 0.1403$$

$$BEC = 0.2103$$

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	13.33	0.0000	P	23.4
2	☐	5.000	4.717	13225.11	0.0343	P	0.6
3	☐	50.000	49.470	135590.23	0.3596	P	1.5
4	☐	125.000	127.289	334970.32	0.9251	P	4.1
5	☐	250.000	244.294	661182.00	1.7755	P	2.0
6	☐	500.000	490.362	1337635.15	3.5639	A	2.1
7	☐	1000.000	1005.987	2760713.95	7.3113	A	1.2
8	☐			448.90	0.0012	P	1.8

$$y = 0.0073 * x + 3.4719E-005$$

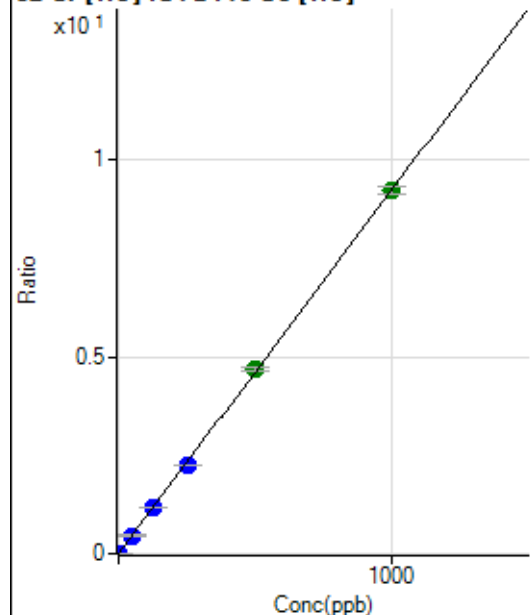
$$R = 0.9999$$

$$DL = 0.003352$$

$$BEC = 0.004777$$

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	1417.86	0.0037	P	4.0
2	☐	2.000	1.927	8278.04	0.0215	P	3.5
3	☐	50.000	49.437	173427.93	0.4599	P	2.1
4	☐	125.000	125.986	422559.85	1.1664	P	1.8
5	☐	250.000	242.856	836055.27	2.2449	P	1.7
6	☐	500.000	506.845	1756929.65	4.6812	A	2.7
7	☐	1000.000	998.268	3479943.00	9.2163	A	2.0
8	☐			28717.86	0.0740	P	1.4

$$y = 0.0092 * x + 0.0037$$

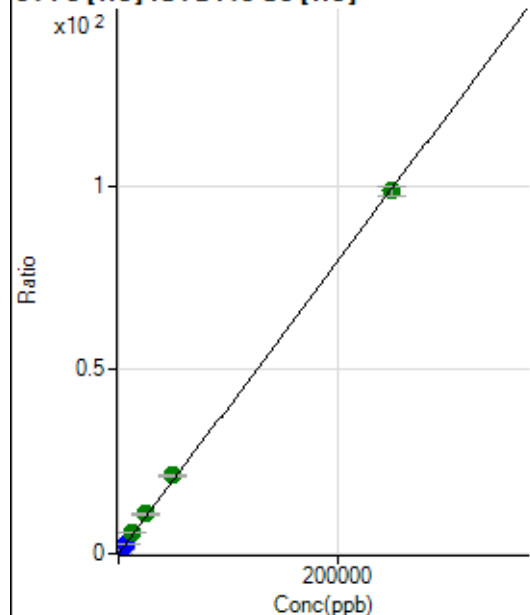
$$R = 0.9999$$

$$DL = 0.04836$$

$$BEC = 0.4005$$

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	705.58	0.0018	P	2.8
2	☐	50.000	50.632	8443.38	0.0219	P	2.2
3	☐	2500.000	2701.674	404562.54	1.0728	P	0.9
4	☐	6250.000	6860.733	985493.07	2.7214	P	3.4
5	☐	12500.000	14048.638	2074671.56	5.5707	A	2.7
6	☐	25000.000	27535.375	4096632.12	10.9168	A	5.0
7	☐	50000.000	53673.732	8035840.05	21.2779	A	2.2
8	☐	250000.00	248916.99	38329098.54	98.6716	A	2.6

$$y = 3.9640E-004 * x + 0.0018$$

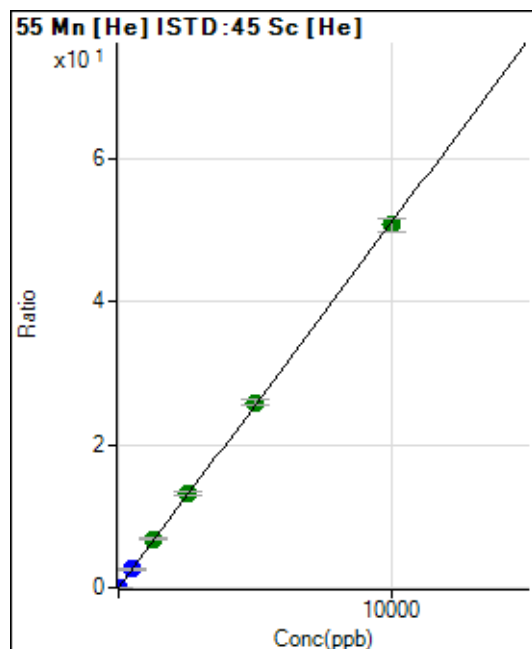
$$R = 0.9999$$

$$DL = 0.3885$$

$$BEC = 4.643$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	56.67	0.0001	P	23.9
2	☐	1.000	1.008	2042.39	0.0053	P	3.5
3	☐	500.000	505.035	972940.95	2.5802	P	1.9
4	☐	1250.000	1335.722	2471942.29	6.8238	A	1.7
5	☐	2500.000	2570.331	4889689.65	13.1309	A	3.5
6	☐	5000.000	5074.940	9730987.50	25.9258	A	2.5
7	☐	10000.000	9933.980	19162736.10	50.7485	A	3.4
8	☐			10705.22	0.0276	P	2.5

$$y = 0.0051 * x + 1.4839E-004$$

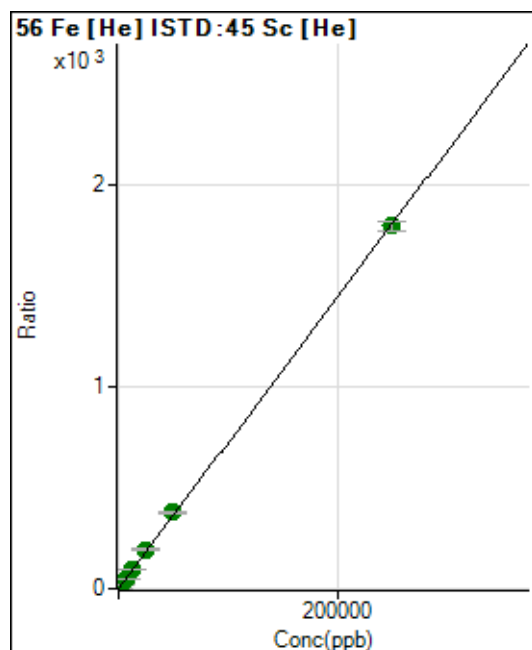
$$R = 0.9999$$

$$DL = 0.02081$$

$$BEC = 0.02905$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5981.01	0.0156	P	2.3
2	☐	50.000	51.901	150274.67	0.3900	P	2.2
3	☐	2500.000	2716.284	7394616.08	19.6100	A	2.2
4	☐	6250.000	7069.849	18479882.82	51.0151	A	1.9
5	☐	12500.000	13494.927	36257320.72	97.3635	A	2.2
6	☐	25000.000	26667.430	72196554.39	192.3855	A	3.2
7	☐	50000.000	52385.554	142682931.8	377.9075	A	3.4
8	☐	250000.00	249283.74	698291015.6	1.798.265	A	2.4

$$y = 0.0072 * x + 0.0156$$

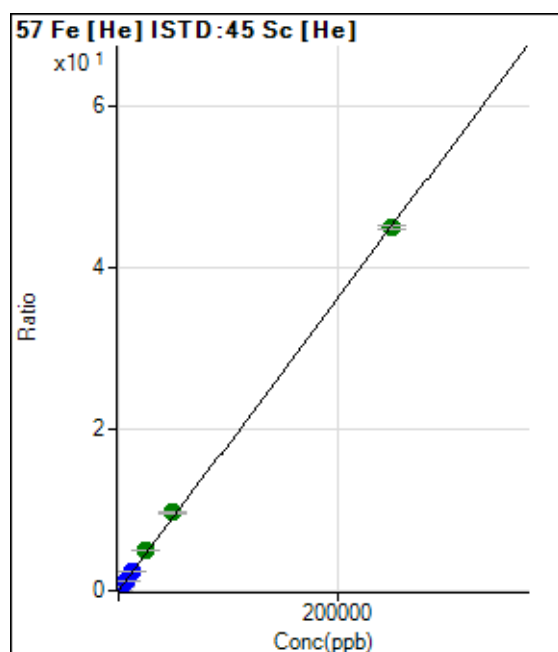
$$R = 0.9999$$

$$DL = 0.1523$$

$$BEC = 2.164$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	175.93	0.0005	P	12.8
2	☐	50.000	51.178	3732.04	0.0097	P	0.8
3	☐	2500.000	2689.185	183025.94	0.4853	P	0.9
4	☐	6250.000	6922.699	452123.98	1.2486	P	3.7
5	☐	12500.000	13355.234	896747.24	2.4083	P	3.1
6	☐	25000.000	27619.696	1868914.39	4.9800	A	3.9
7	☐	50000.000	53485.500	3641443.98	9.6434	A	0.7
8	☐	250000.00	248979.45	17432293.33	44.8893	A	0.9

$$y = 1.8029\text{E-}004 * x + 4.5773\text{E-}004$$

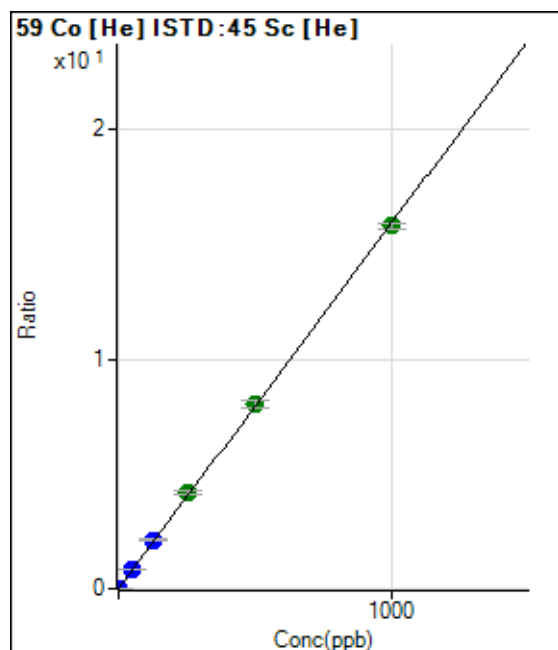
$$R = 0.9999$$

$$DL = 0.9733$$

$$BEC = 2.539$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	86.67	0.0002	P	33.3
2	☐	1.000	1.018	6333.69	0.0164	P	1.8
3	☐	50.000	52.571	315773.44	0.8374	P	1.4
4	☐	125.000	132.800	765925.83	2.1149	P	3.1
5	☐	250.000	263.186	1560658.67	4.1912	A	3.1
6	☐	500.000	506.062	3024292.14	8.0587	A	4.2
7	☐	1000.000	992.569	5968249.98	15.8058	A	1.4
8	☐			8851.73	0.0228	P	0.4

$$y = 0.0159 * x + 2.2617\text{E-}004$$

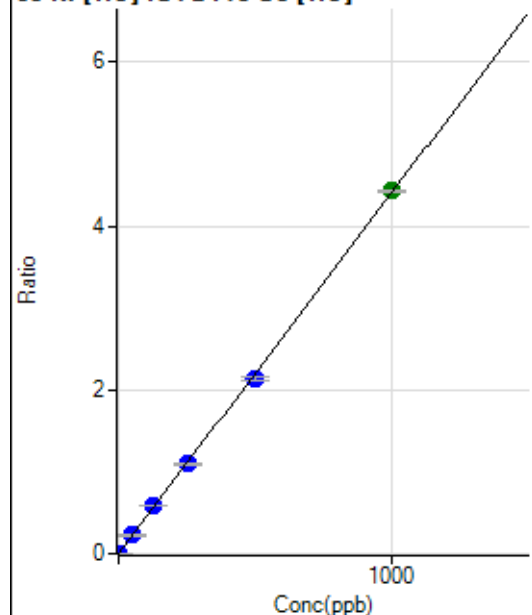
$$R = 0.9999$$

$$DL = 0.01418$$

$$BEC = 0.0142$$

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	46.67	0.0001	P	44.5
2	☐	1.000	1.002	1746.79	0.0045	P	1.8
3	☐	50.000	51.009	84710.77	0.2247	P	3.5
4	☐	125.000	132.641	211539.49	0.5840	P	2.5
5	☐	250.000	249.563	409194.39	1.0988	P	2.3
6	☐	500.000	486.924	804553.56	2.1437	P	2.5
7	☐	1000.000	1005.642	1671805.67	4.4273	A	0.9
8	☐			8700.53	0.0224	P	3.0

$$y = 0.0044 * x + 1.2112E-004$$

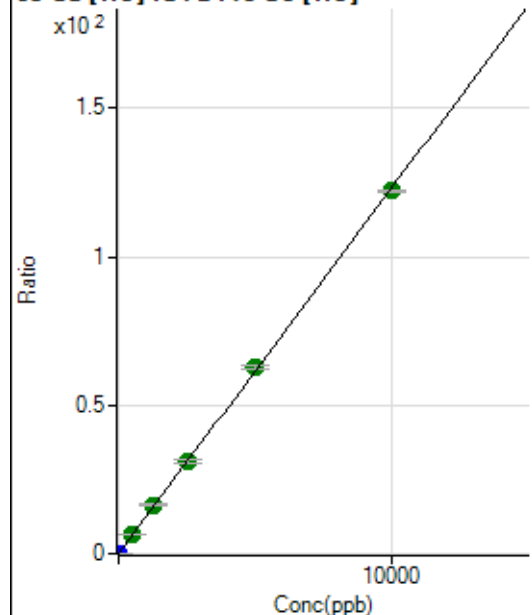
$$R = 0.9998$$

$$DL = 0.03675$$

$$BEC = 0.02751$$

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	895.59	0.0023	P	3.0
2	☐	2.000	2.053	10636.31	0.0276	P	1.3
3	☐	500.000	534.226	2479633.11	6.5767	A	3.2
4	☐	1250.000	1336.295	5958448.45	16.4472	A	1.5
5	☐	2500.000	2544.385	11659802.05	31.3144	A	3.6
6	☐	5000.000	5096.562	23545006.04	62.7223	A	2.0
7	☐	10000.000	9928.124	46138314.87	122.1811	A	0.5
8	☐			11502.53	0.0296	P	0.5

$$y = 0.0123 * x + 0.0023$$

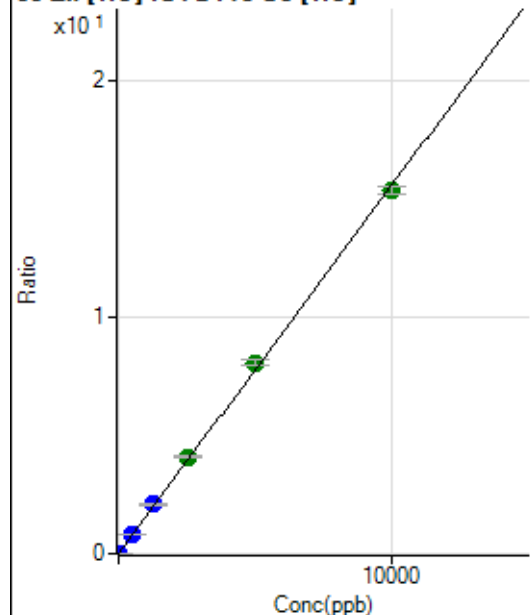
$$R = 0.9999$$

$$DL = 0.01714$$

$$BEC = 0.1899$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	184.45	0.0005	P	22.7
2	☐	2.000	2.103	1446.76	0.0038	P	4.6
3	☐	500.000	526.189	308988.34	0.8193	P	0.9
4	☐	1250.000	1356.552	764535.01	2.1114	P	3.9
5	☐	2500.000	2627.888	1522992.72	4.0898	A	2.5
6	☐	5000.000	5196.267	3034938.22	8.0865	A	2.5
7	☐	10000.000	9855.266	5790551.86	15.3364	A	2.1
8	☐			3686.08	0.0095	P	4.0

$$y = 0.0016 * x + 4.8027E-004$$

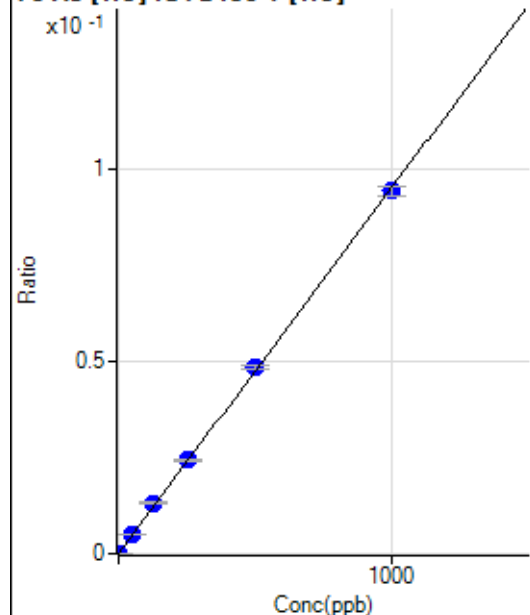
$$R = 0.9996$$

$$DL = 0.2104$$

$$BEC = 0.3086$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	7.00	0.0000	P	41.8
2	☐	1.000	1.180	388.38	0.0001	P	4.1
3	☐	50.000	52.332	16757.62	0.0050	P	0.8
4	☐	125.000	138.449	42207.35	0.0132	P	2.1
5	☐	250.000	256.650	82759.17	0.0244	P	2.4
6	☐	500.000	508.380	164262.43	0.0483	P	1.8
7	☐	1000.000	992.350	327717.42	0.0943	P	2.6
8	☐			114.34	0.0000	P	5.8

$$y = 9.5003E-005 * x + 2.0783E-006$$

$$R = 0.9999$$

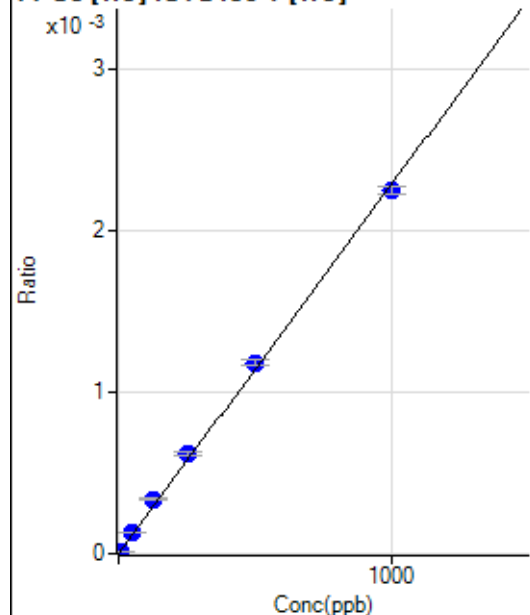
$$DL = 0.02741$$

$$BEC = 0.02188$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	4.449	34.45	0.0000	P	39.4
3	☐	50.000	56.986	437.79	0.0001	P	6.6
4	☐	125.000	148.369	1086.72	0.0003	P	6.4
5	☐	250.000	272.093	2106.85	0.0006	P	4.6
6	☐	500.000	517.185	4012.84	0.0012	P	3.4
7	☐	1000.000	982.616	7794.46	0.0022	P	2.1
8	☐			3.33	0.0000	P	101.4

$$y = 2.2818\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9993$$

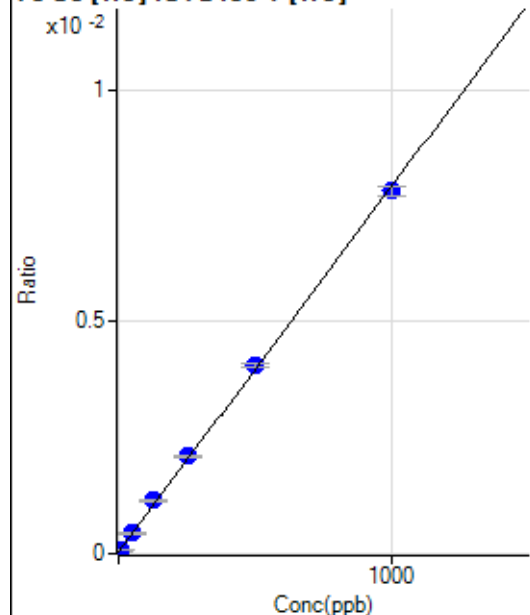
$$DL = 0$$

$$BEC = 0$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	121.01	0.0000	P	13.2
2	☐	5.000	5.350	266.36	0.0001	P	5.2
3	☐	50.000	51.733	1495.57	0.0004	P	5.2
4	☐	125.000	141.265	3688.20	0.0011	P	2.8
5	☐	250.000	262.642	7149.21	0.0021	P	2.3
6	☐	500.000	513.270	13882.58	0.0041	P	1.9
7	☐	1000.000	988.083	27197.22	0.0078	P	2.9
8	☐			125.68	0.0000	P	7.2

$$y = 7.8825\text{E-}006 * x + 3.6171\text{E-}005$$

$$R = 0.9997$$

$$DL = 1.812$$

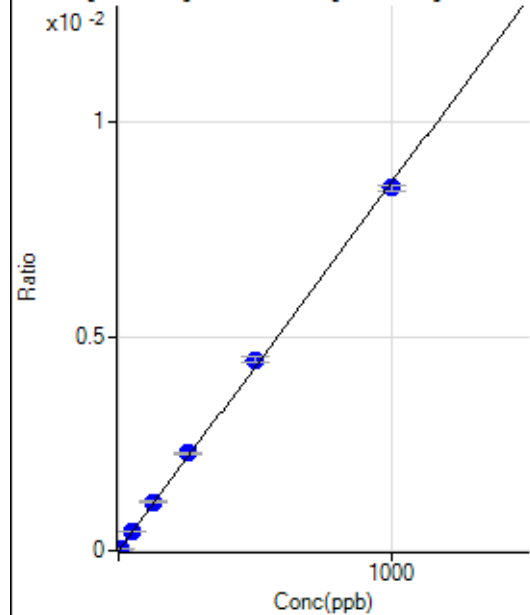
$$BEC = 4.589$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			77677.10		P	3.4
2	☐			78666.09		P	0.9
3	☐			75315.44		P	1.1
4	☐			73904.36		P	1.9
5	☐			77444.93		P	6.0
6	☐			78812.60		P	1.7
7	☐			76039.38		P	1.8
8	☐			74921.03		P	1.3

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	-206.86	0.0000	P	-135.
2	☐	5.000	5.382	1463.40	0.0000	P	2.6
3	☐	50.000	53.313	16929.69	0.0005	P	3.1
4	☐	125.000	131.738	41741.24	0.0011	P	3.0
5	☐	250.000	265.058	83331.27	0.0023	P	2.1
6	☐	500.000	517.941	165141.53	0.0045	P	2.9
7	☐	1000.000	986.255	318510.70	0.0085	P	1.8
8	☐			350.29	0.0000	P	82.8

$$y = 8.6038E-006 * x - 5.6955E-006$$

$$R = 0.9996$$

$$DL = 2.694$$

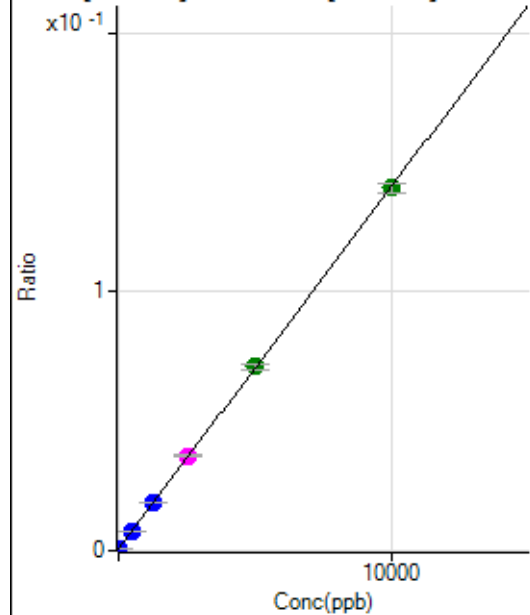
$$BEC = -0.662$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			13847.60		P	3.2
2	☐			13984.81		P	1.4
3	☐			13908.48		P	0.5
4	☐			13607.40		P	1.6
5	☐			13517.73		P	1.0
6	☐			13348.44		P	0.9
7	☐			13724.17		P	0.8
8	☐			13520.23		P	0.9

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	22346.14	0.0006	P	5.3
2	☐	1.000	11.395	27792.08	0.0008	P	2.3
3	☐	500.000	501.765	285422.60	0.0076	P	0.4
4	☐	1250.000	1270.612	681099.98	0.0184	P	2.1
5	☐	2500.000	2562.614	1336546.82	0.0365	M	1.9
6	☐	5000.000	5035.057	2637989.86	0.0711	A	2.8
7	☐	10000.000	9964.152	5261749.99	0.1401	A	2.5
8	☐			55285.19	0.0015	P	1.0

$$y = 1.3999E-005 * x + 6.1153E-004$$

$$R = 1.0000$$

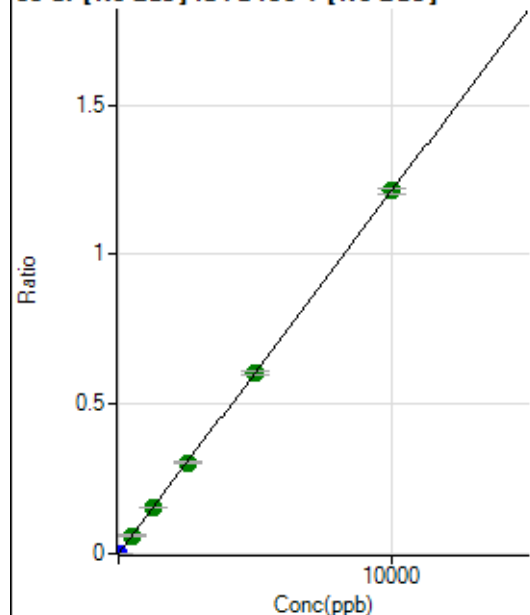
$$DL = 6.95$$

$$BEC = 43.69$$

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	361.12	0.0000	P	20.2
2	☐	1.000	10.128	44611.18	0.0012	P	1.8
3	☐	500.000	501.537	2273038.77	0.0608	A	2.5
4	☐	1250.000	1257.035	5643325.12	0.1524	A	0.3
5	☐	2500.000	2509.161	11144461.97	0.3042	A	2.1
6	☐	5000.000	4979.957	22407402.58	0.6038	A	2.5
7	☐	10000.000	10006.774	45571451.02	1.2133	A	1.8
8	☐			290077.21	0.0080	P	0.4

$$y = 1.2125\text{E-}004 * x + 9.8727\text{E-}006$$

$$R = 1.0000$$

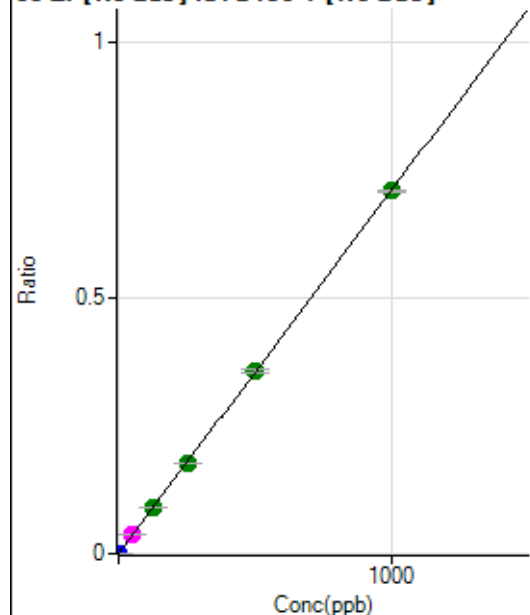
$$DL = 0.04946$$

$$BEC = 0.08143$$

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	1764.06	0.0000	P	6.3
2	☐	1.000	0.996	27232.77	0.0008	P	1.2
3	☐	50.000	51.568	1371194.43	0.0367	M	2.2
4	☐	125.000	126.849	3338268.50	0.0902	A	1.4
5	☐	250.000	249.328	6491993.29	0.1772	A	1.3
6	☐	500.000	503.069	13268158.54	0.3575	A	2.1
7	☐	1000.000	998.324	26655119.52	0.7094	A	0.9
8	☐			14691.48	0.0004	P	3.1

$$y = 7.1052\text{E-}004 * x + 4.8262\text{E-}005$$

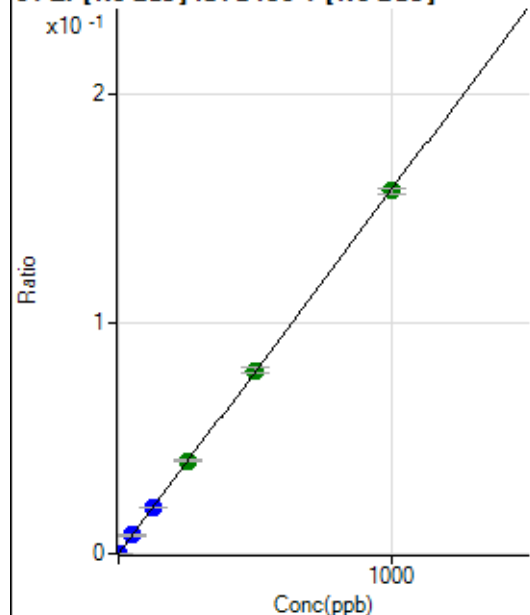
$$R = 1.0000$$

$$DL = 0.01289$$

$$BEC = 0.06792$$

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	377.79	0.0000	P	15.0
2	☐	1.000	1.024	6212.66	0.0002	P	1.3
3	☐	50.000	50.349	298202.08	0.0080	P	1.8
4	☐	125.000	125.918	738019.39	0.0199	P	1.9
5	☐	250.000	254.865	1477974.57	0.0403	A	2.1
6	☐	500.000	504.352	2962874.72	0.0798	A	2.2
7	☐	1000.000	996.475	5924258.99	0.1577	A	1.9
8	☐			3150.45	0.0001	P	4.8

$$y = 1.5825\text{E-}004 * x + 1.0344\text{E-}005$$

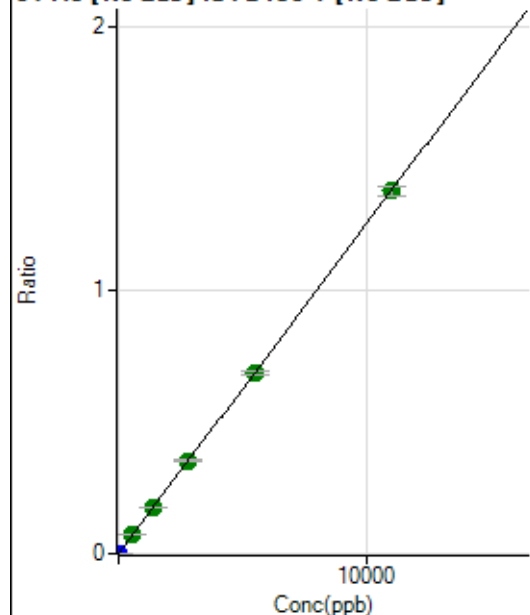
$$R = 1.0000$$

$$DL = 0.02945$$

$$BEC = 0.06536$$

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	680.59	0.0000	P	11.2
2	☐	5.000	6.924	31990.41	0.0009	P	2.7
3	☐	550.000	563.319	2643688.29	0.0707	A	0.9
4	☐	1375.000	1395.038	6483814.47	0.1751	A	1.0
5	☐	2750.000	2817.399	12954958.88	0.3537	A	2.9
6	☐	5500.000	5483.283	25546074.35	0.6883	A	1.5
7	☐	11000.000	10988.337	51803629.28	1.3793	A	2.7
8	☐			19522.57	0.0005	P	3.2

$$y = 1.2552\text{E-}004 * x + 1.8615\text{E-}005$$

$$R = 1.0000$$

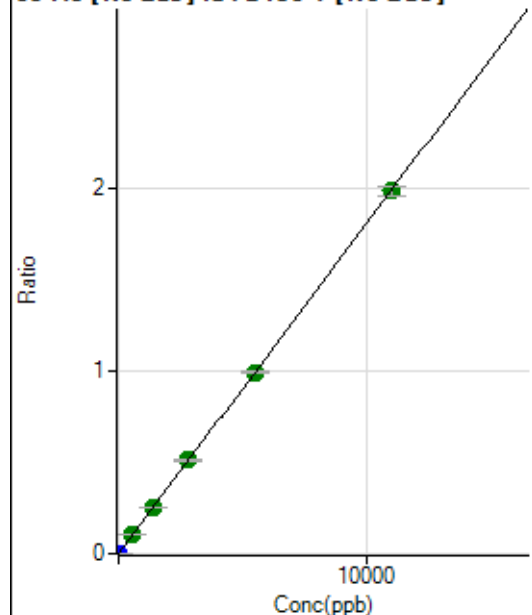
$$DL = 0.04996$$

$$BEC = 0.1483$$

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	102.78	0.0000	P	30.9
2	☐	5.000	5.932	38860.87	0.0011	P	1.1
3	☐	550.000	566.261	3837272.01	0.1027	A	1.9
4	☐	1375.000	1406.343	9439965.58	0.2550	A	0.5
5	☐	2750.000	2823.757	18754290.00	0.5120	A	3.0
6	☐	5500.000	5497.548	36994753.95	0.9967	A	1.5
7	☐	11000.000	10978.055	74745669.03	1.9904	A	3.0
8	☐			21492.24	0.0006	P	4.8

$$y = 1.8130\text{E-}004 * x + 2.8140\text{E-}006$$

$$R = 1.0000$$

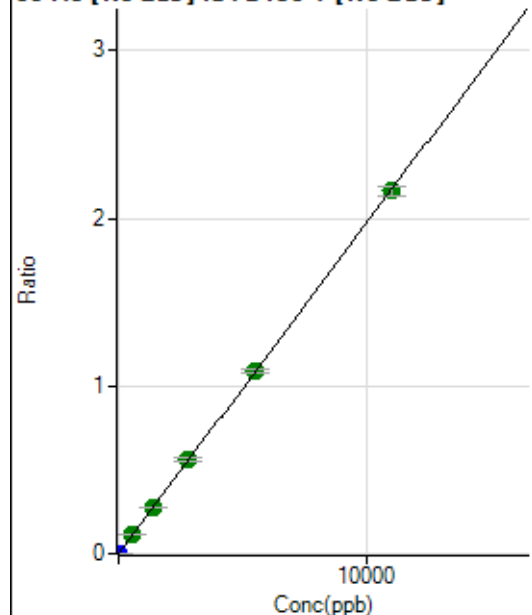
$$DL = 0.01437$$

$$BEC = 0.01552$$

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	661.15	0.0000	P	24.1
2	☐	5.000	5.862	42362.30	0.0012	P	1.9
3	☐	550.000	559.917	4132445.88	0.1105	A	1.1
4	☐	1375.000	1406.613	10281093.72	0.2777	A	0.2
5	☐	2750.000	2833.613	20488211.92	0.5594	A	3.3
6	☐	5500.000	5521.616	40452863.40	1.0900	A	2.0
7	☐	11000.000	10963.841	81290090.71	2.1644	A	2.4
8	☐			71462.85	0.0020	P	3.8

$$y = 1.9741\text{E-}004 * x + 1.8072\text{E-}005$$

$$R = 1.0000$$

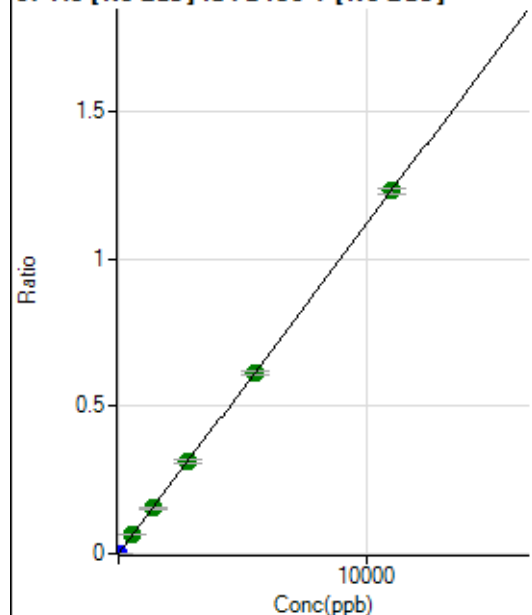
$$DL = 0.06617$$

$$BEC = 0.09155$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	52.78	0.0000	P	17.6
2	☐	5.000	5.932	23954.63	0.0007	P	3.0
3	☐	550.000	558.874	2336171.97	0.0625	A	1.0
4	☐	1375.000	1382.134	5722619.62	0.1546	A	2.1
5	☐	2750.000	2806.605	11493528.56	0.3138	A	4.0
6	☐	5500.000	5477.324	22728457.45	0.6125	A	2.4
7	☐	11000.000	10995.851	46186707.63	1.2296	A	1.3
8	☐			14202.10	0.0004	P	1.6

$$y = 1.1182\text{E-}004 * x + 1.4429\text{E-}006$$

$$R = 1.0000$$

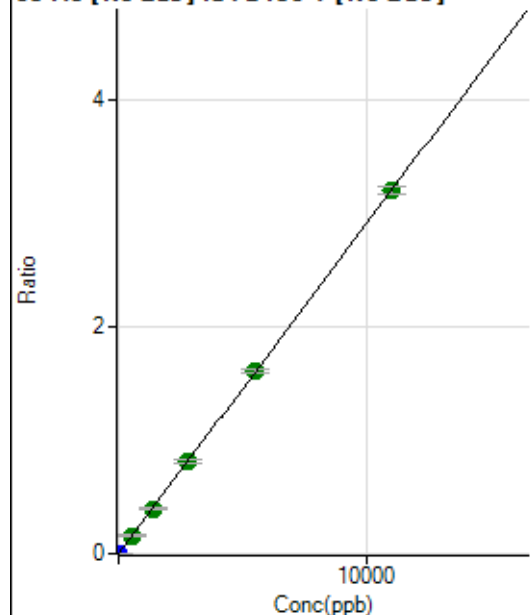
$$DL = 0.006814$$

$$BEC = 0.0129$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	222.23	0.0000	P	10.0
2	☐	5.000	5.738	60463.47	0.0017	P	0.1
3	☐	550.000	551.502	6006039.46	0.1607	A	1.1
4	☐	1375.000	1365.502	14730539.74	0.3978	A	2.8
5	☐	2750.000	2786.512	29729772.89	0.8118	A	4.2
6	☐	5500.000	5519.972	59679398.56	1.6082	A	2.4
7	☐	11000.000	10981.998	120166608.2	3.1994	A	2.2
8	☐			32798.29	0.0009	P	5.2

$$y = 2.9133\text{E-}004 * x + 6.0831\text{E-}006$$

$$R = 1.0000$$

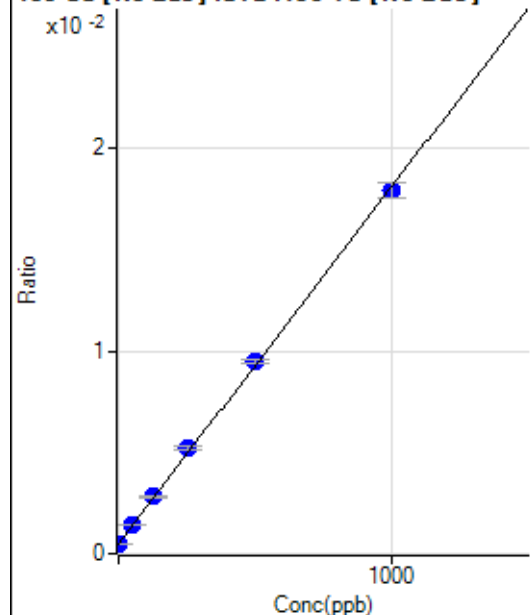
$$DL = 0.00628$$

$$BEC = 0.02088$$

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	10907.43	0.0005	P	4.5
2	☐	1.000	0.131	11160.40	0.0005	P	3.5
3	☐	50.000	55.026	33959.59	0.0015	P	0.7
4	☐	125.000	133.522	65446.16	0.0028	P	2.9
5	☐	250.000	268.769	122857.92	0.0052	P	2.8
6	☐	500.000	510.138	226746.89	0.0095	P	1.8
7	☐	1000.000	988.923	434502.94	0.0179	P	4.3
8	☐			10329.20	0.0005	P	7.3

$$y = 1.7622\text{E-}005 * x + 4.8802\text{E-}004$$

$$R = 0.9997$$

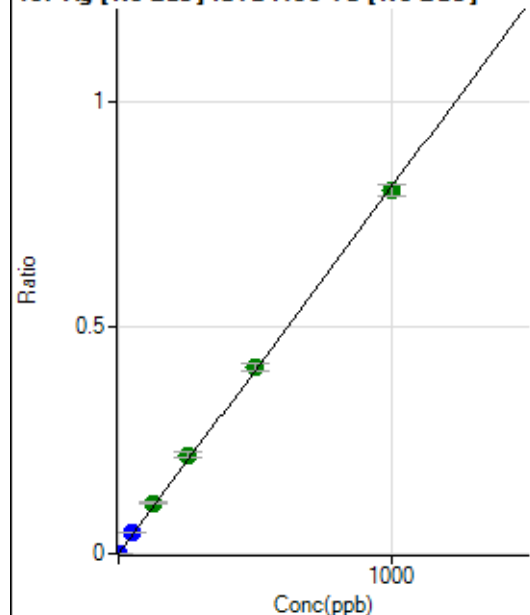
$$DL = 3.77$$

$$BEC = 27.69$$

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	202.79	0.0000	P	28.7
2	☐	1.000	1.133	21130.69	0.0009	P	3.2
3	☐	50.000	56.014	1058812.22	0.0455	P	2.1
4	☐	125.000	137.554	2571116.10	0.1116	A	2.9
5	☐	250.000	269.684	5144890.26	0.2188	A	4.7
6	☐	500.000	508.078	9859321.92	0.4122	A	4.0
7	☐	1000.000	989.170	19468436.03	0.8025	A	3.1
8	☐			5909.78	0.0003	P	3.0

$$y = 8.1127\text{E-}004 * x + 9.0500\text{E-}006$$

$$R = 0.9997$$

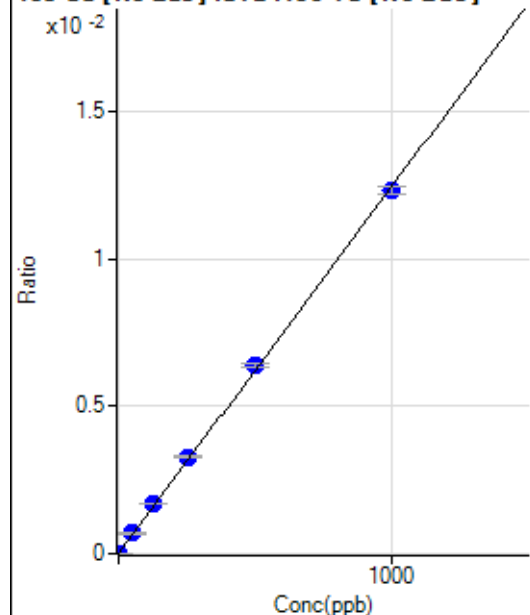
$$DL = 0.009603$$

$$BEC = 0.01116$$

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	126.39	0.0000	P	17.7
2	☐	1.000	1.028	419.46	0.0000	P	24.5
3	☐	50.000	54.800	15999.73	0.0007	P	3.1
4	☐	125.000	134.911	38782.45	0.0017	P	0.3
5	☐	250.000	262.075	76771.75	0.0033	P	2.0
6	☐	500.000	512.882	152694.64	0.0064	P	2.3
7	☐	1000.000	989.061	298505.17	0.0123	P	2.3
8	☐			273.62	0.0000	P	18.6

$$y = 1.2433\text{E-}005 * x + 5.6697\text{E-}006$$

$$R = 0.9998$$

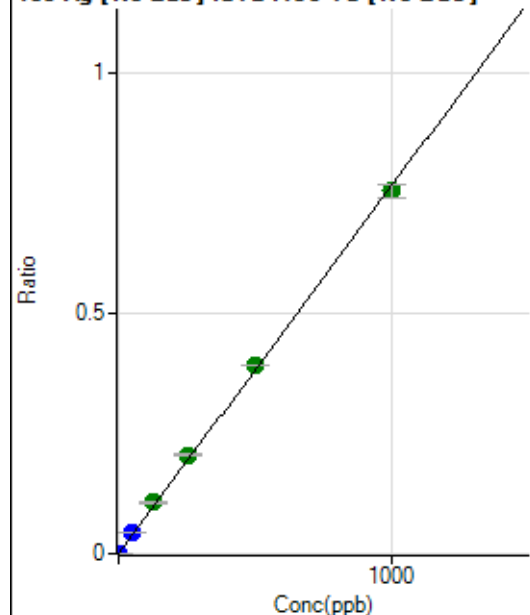
$$DL = 0.2418$$

$$BEC = 0.456$$

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	77.78	0.0000	P	27.7
2	☐	1.000	1.127	19675.80	0.0009	P	2.1
3	☐	50.000	56.666	1008310.06	0.0433	P	3.4
4	☐	125.000	138.602	2438604.37	0.1058	A	0.9
5	☐	250.000	268.249	4818209.26	0.2048	A	0.9
6	☐	500.000	513.610	9384890.58	0.3922	A	0.5
7	☐	1000.000	986.599	18273850.41	0.7533	A	3.7
8	☐			5848.63	0.0003	P	1.2

$$y = 7.6356\text{E-}004 * x + 3.4826\text{E-}006$$

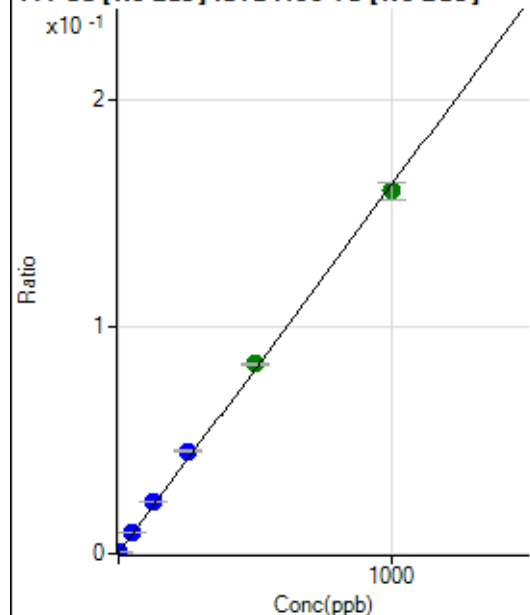
$$R = 0.9996$$

$$DL = 0.003792$$

$$BEC = 0.004561$$

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	7617.92	0.0003	P	4.6
2	☐	1.000	1.106	11829.26	0.0005	P	4.0
3	☐	50.000	56.439	220626.20	0.0095	P	0.8
4	☐	125.000	140.058	529793.25	0.0230	P	1.9
5	☐	250.000	276.107	1058450.50	0.0450	P	2.5
6	☐	500.000	513.817	1996977.37	0.0835	A	1.6
7	☐	1000.000	984.361	3869805.92	0.1596	A	4.5
8	☐			7987.35	0.0004	P	7.0

$$y = 1.6175\text{E-}004 * x + 3.4084\text{E-}004$$

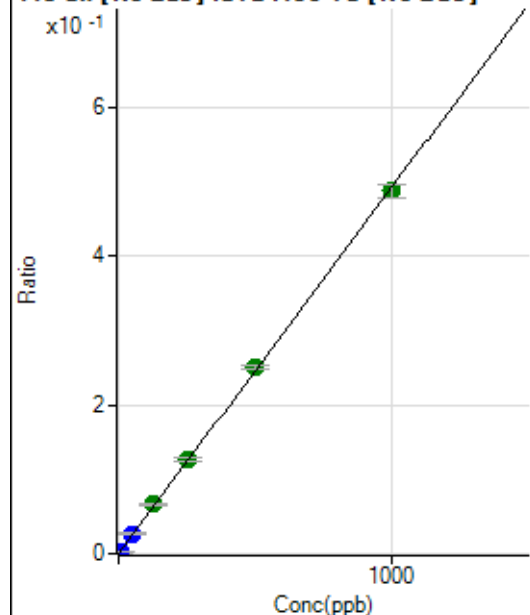
$$R = 0.9994$$

$$DL = 0.292$$

$$BEC = 2.107$$

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	2186.88	0.0001	P	10.6
2	☐	5.000	5.808	67320.86	0.0030	P	10.2
3	☐	50.000	54.012	621582.98	0.0267	P	3.9
4	☐	125.000	134.890	1532435.18	0.0665	A	2.2
5	☐	250.000	258.895	2999950.87	0.1276	A	4.2
6	☐	500.000	509.851	6008646.66	0.2511	A	2.5
7	☐	1000.000	991.410	11842511.03	0.4883	A	3.8
8	☐			6326.67	0.0003	P	6.7

$$y = 4.9239\text{E-}004 * x + 9.7968\text{E-}005$$

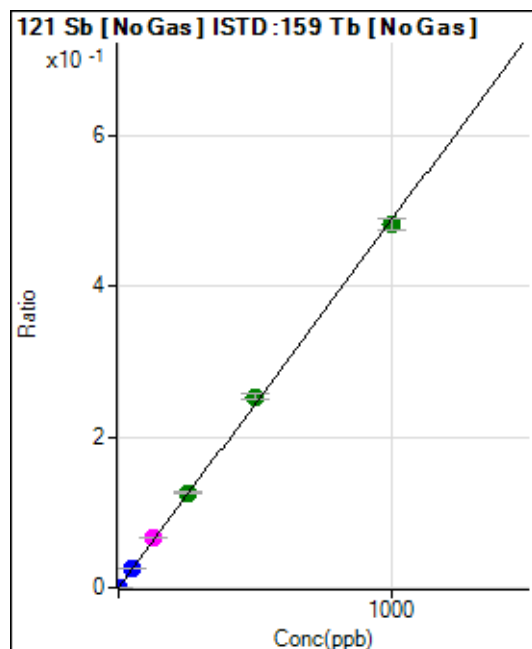
$$R = 0.9999$$

$$DL = 0.06353$$

$$BEC = 0.199$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	69.45	0.0000	P	24.7
2	☐	2.000	2.134	23799.20	0.0010	P	1.7
3	☐	50.000	53.765	611633.92	0.0263	P	2.2
4	☐	125.000	134.147	1509533.99	0.0655	M	0.9
5	☐	250.000	258.574	2970141.74	0.1263	A	1.7
6	☐	500.000	519.422	6068560.29	0.2537	A	2.7
7	☐	1000.000	986.814	11690453.30	0.4819	A	3.3
8	☐			8703.01	0.0004	P	8.8

$$y = 4.8835\text{E-}004 * x + 3.1041\text{E-}006$$

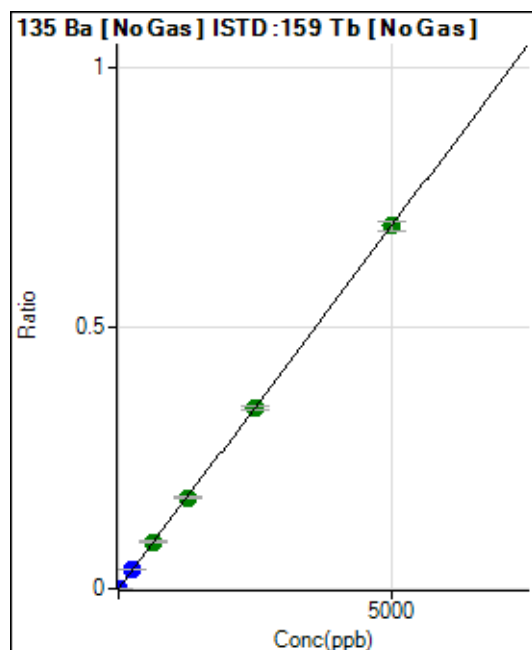
$$R = 0.9997$$

$$DL = 0.004716$$

$$BEC = 0.006356$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	50.00	0.0000	P	31.2
2	☐	10.000	10.189	32314.66	0.0014	P	0.7
3	☐	250.000	264.203	856184.60	0.0368	P	0.8
4	☐	625.000	645.482	2068574.26	0.0898	A	1.6
5	☐	1250.000	1252.593	4099411.55	0.1742	A	1.4
6	☐	2500.000	2492.847	8295009.04	0.3467	A	2.5
7	☐	5000.000	4999.658	16871419.13	0.6954	A	2.5
8	☐			7985.92	0.0004	P	6.4

$$y = 1.3909\text{E-}004 * x + 2.2271\text{E-}006$$

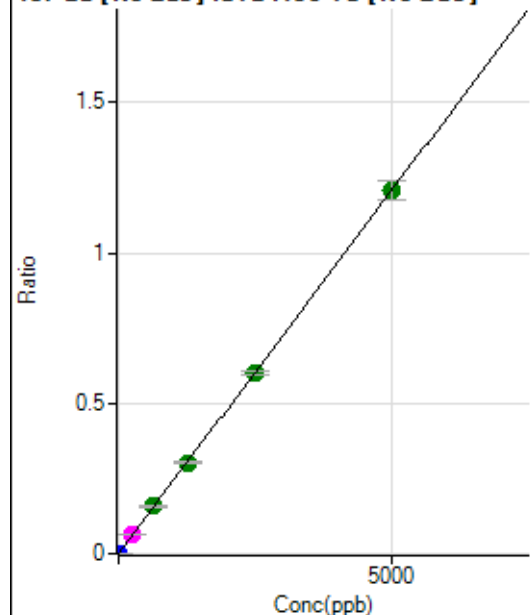
$$R = 1.0000$$

$$DL = 0.01499$$

$$BEC = 0.01601$$

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	66.67	0.0000	P	34.2
2	☐	10.000	10.266	56488.83	0.0025	P	2.7
3	☐	250.000	265.800	1495228.86	0.0642	M	0.3
4	☐	625.000	649.283	3612198.47	0.1568	A	1.7
5	☐	1250.000	1255.249	7130142.09	0.3031	A	1.6
6	☐	2500.000	2495.673	14415218.38	0.6026	A	2.4
7	☐	5000.000	4997.026	29252531.56	1.2065	A	5.2
8	☐			14093.81	0.0006	P	4.4

$$y = 2.4144\text{E-}004 * x + 2.9882\text{E-}006$$

$$R = 1.0000$$

$$DL = 0.01269$$

$$BEC = 0.01238$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.44		P	173.2
2	☐			2.22		P	173.2
3	☐			71.11		P	37.9
4	☐			160.00		P	7.2
5	☐			306.68		P	13.0
6	☐			584.47		P	7.6
7	☐			1155.63		P	6.1
8	☐			120.00		P	30.9

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			0.00		P	
3	☐			7.78		P	99.0
4	☐			12.22		P	41.7
5	☐			15.56		P	61.9
6	☐			38.89		P	32.4
7	☐			50.00		P	11.5
8	☐			36.67		P	32.8

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			19.44		P	65.5
2	☐			30.56		P	41.7
3	☐			47.22		P	44.4
4	☐			102.78		P	32.8
5	☐			255.56		P	23.6
6	☐			397.24		P	5.3
7	☐			794.50		P	5.2
8	☐			1697.38		P	6.7

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.44		P	43.4
2	☐			1.11		P	173.2
3	☐			22.22		P	31.2
4	☐			38.89		P	21.6
5	☐			72.22		P	11.6
6	☐			142.22		P	23.9
7	☐			264.45		P	6.2
8	☐			406.68		P	5.9

160 Gd [No Gas] Noavailable calibration poin_

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			100.00		P	0.0
2	☐			83.34		P	36.1
3	☐			172.23		P	23.9
4	☐			158.34		P	22.9
5	☐			266.68		P	19.5
6	☐			413.91		P	15.6
7	☐			708.37		P	9.3
8	☐			1180.64		P	14.0

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			150.00		P	3.8
2	☐			187.78		P	6.2
3	☐			155.56		P	15.2
4	☐			153.34		P	27.2
5	☐			214.45		P	6.3
6	☐			226.67		P	15.4
7	☐			384.45		P	7.1
8	☐			554.46		P	4.4

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			147.23		P	47.5
2	☐			158.34		P	27.3
3	☐			152.78		P	11.4
4	☐			205.57		P	13.0
5	☐			205.56		P	15.4
6	☐			202.79		P	30.8
7	☐			277.79		P	38.7
8	☐			283.35		P	7.8

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			51.11		P	32.8
2	☐			48.89		P	30.7
3	☐			61.11		P	22.0
4	☐			57.78		P	28.5
5	☐			75.55		P	9.2
6	☐			81.11		P	14.4
7	☐			81.11		P	28.9
8	☐			86.67		P	6.7

172 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			72.22		P	35.2
2	☐			80.56		P	29.9
3	☐			66.67		P	57.3
4	☐			80.56		P	39.2
5	☐			80.56		P	52.1
6	☐			105.56		P	25.4
7	☐			91.67		P	24.1
8	☐			294.46		P	33.5

172 Yb [He] No available calibration points

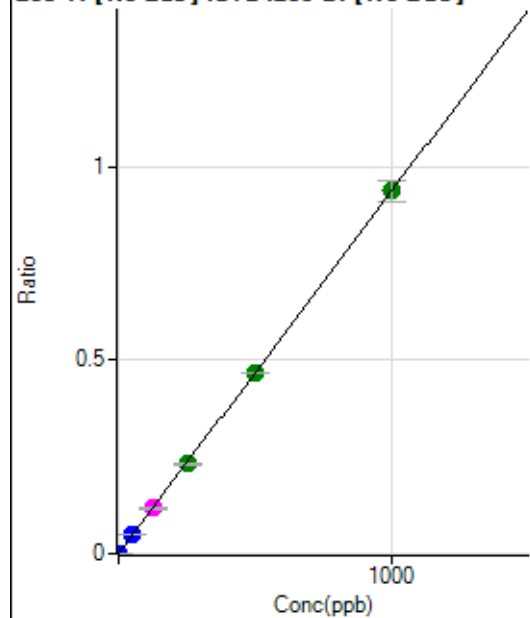
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			31.48		P	56.7
2	☐			22.22		P	43.3
3	☐			27.78		P	34.6
4	☐			31.48		P	56.7
5	☐			20.37		P	41.7
6	☐			44.45		P	25.0
7	☐			57.41		P	14.8
8	☐			142.60		P	22.8

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3367.20		P	6.3
2	☐			3483.88		P	2.0
3	☐			5862.60		P	1.3
4	☐			9954.05		P	2.8
5	☐			16115.85		P	2.9
6	☐			29280.62		P	1.5
7	☐			57052.21		P	0.4
8	☐			3369.97		P	7.3

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			11444.07		P	7.5
2	☐			11631.27		P	2.0
3	☐			12702.63		P	4.1
4	☐			13644.38		P	2.6
5	☐			16512.41		P	1.7
6	☐			21018.88		P	1.9
7	☐			30897.62		P	1.8
8	☐			11799.94		P	7.0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1066.74	0.0001	P	10.4
2	☐	1.000	0.981	12617.73	0.0010	P	3.7
3	☐	50.000	51.025	616787.58	0.0478	P	1.1
4	☐	125.000	126.108	1539582.54	0.1180	M	3.3
5	☐	250.000	246.816	3007142.95	0.2310	A	2.8
6	☐	500.000	498.678	6044052.35	0.4666	A	0.7
7	☐	1000.000	1001.267	11943404.26	0.9367	A	5.9
8	☐			2800.38	0.0003	P	4.6

$$y = 9.3542\text{E-}004 * x + 8.5739\text{E-}005$$

$$R = 1.0000$$

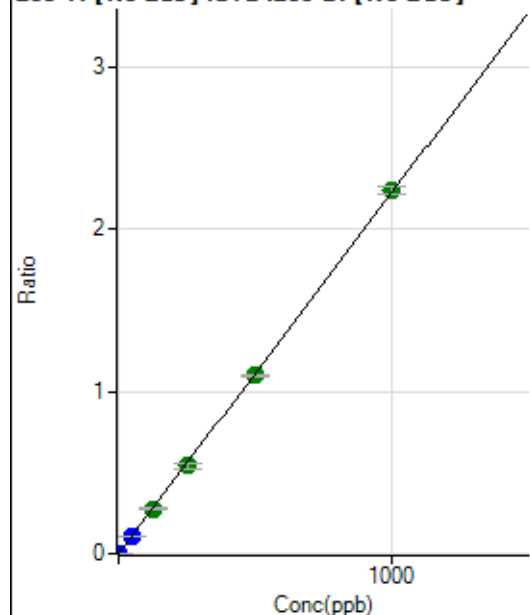
$$DL = 0.02869$$

$$BEC = 0.09166$$

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	2730.91	0.0002	P	1.4
2	☐	1.000	0.957	29528.99	0.0023	P	7.1
3	☐	50.000	50.161	1442374.89	0.1118	P	0.2
4	☐	125.000	124.720	3622103.12	0.2777	A	2.0
5	☐	250.000	242.396	7021168.47	0.5395	A	4.9
6	☐	500.000	493.074	14212086.60	1.0972	A	1.3
7	☐	1000.000	1005.391	28540725.29	2.2369	A	2.1
8	☐			6643.58	0.0006	P	2.5

$$y = 0.0022 * x + 2.1920E-004$$

$$R = 0.9999$$

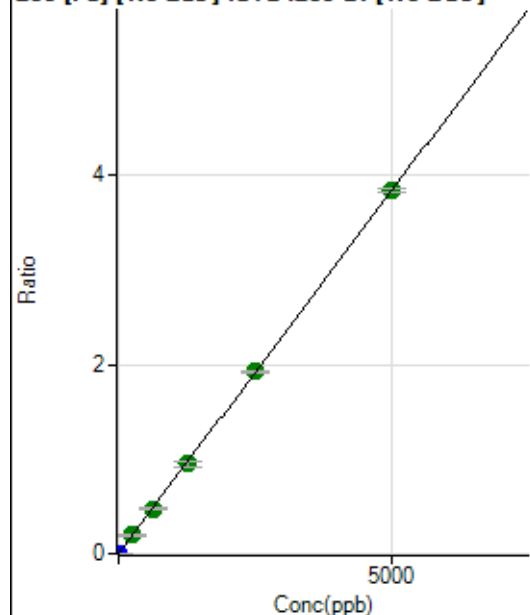
$$DL = 0.004145$$

$$BEC = 0.09853$$

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	1335.28	0.0001	P	4.7
2	☐	1.000	1.003	11036.40	0.0009	P	4.7
3	☐	250.000	253.690	2513986.95	0.1949	A	2.0
4	☐	625.000	619.701	6206500.77	0.4759	A	3.8
5	☐	1250.000	1240.307	12394335.58	0.9524	A	5.6
6	☐	2500.000	2504.988	24914338.52	1.9235	A	2.1
7	☐	5000.000	5000.407	48999731.65	3.8395	A	1.1
8	☐			10515.57	0.0010	P	2.0

$$y = 7.6782E-004 * x + 1.0721E-004$$

$$R = 1.0000$$

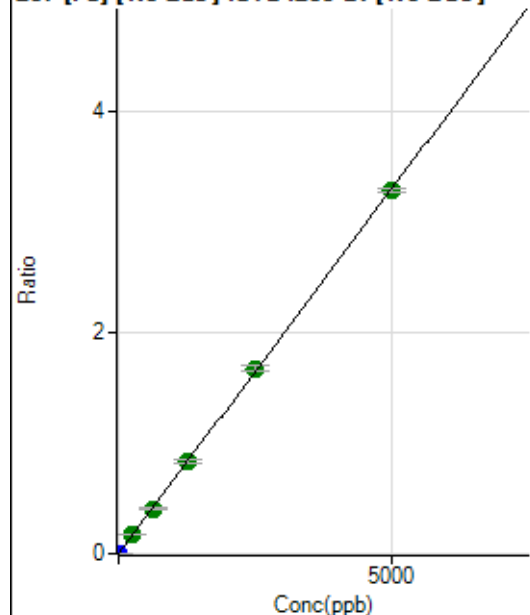
$$DL = 0.01951$$

$$BEC = 0.1396$$

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	1177.86	0.0001	P	10.7
2	☐	1.000	0.997	9472.15	0.0008	P	3.2
3	☐	250.000	254.006	2165778.68	0.1679	A	0.9
4	☐	625.000	619.361	5337493.98	0.4092	A	2.7
5	☐	1250.000	1258.005	10817135.42	0.8311	A	4.5
6	☐	2500.000	2542.725	21757268.77	1.6798	A	3.3
7	☐	5000.000	4977.141	41956021.31	3.2879	A	1.2
8	☐			9186.77	0.0009	P	4.5

$$y = 6.6057\text{E-}004 * x + 9.4643\text{E-}005$$

$$R = 0.9999$$

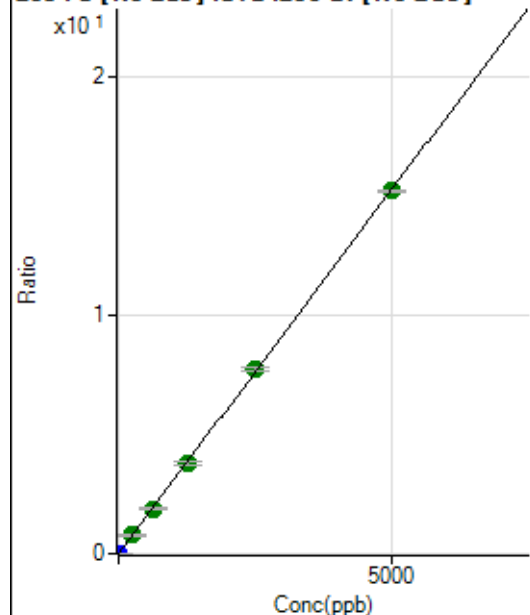
$$DL = 0.04609$$

$$BEC = 0.1433$$

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	5491.31	0.0004	P	8.1
2	☐	1.000	0.982	43245.59	0.0034	P	3.6
3	☐	250.000	252.281	9938502.67	0.7704	A	2.3
4	☐	625.000	615.750	24519099.33	1.8798	A	2.2
5	☐	1250.000	1241.285	49323140.80	3.7890	A	3.5
6	☐	2500.000	2535.528	100241248.7	7.7391	A	2.6
7	☐	5000.000	4985.457	194213119.1	15.2165	A	0.4
8	☐			42060.95	0.0039	P	4.1

$$y = 0.0031 * x + 4.4120\text{E-}004$$

$$R = 1.0000$$

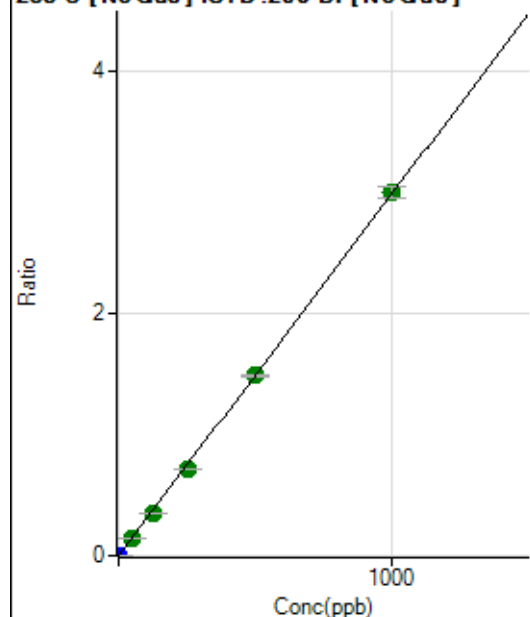
$$DL = 0.03509$$

$$BEC = 0.1446$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	52.78	0.0000	P	38.2
2	☐	1.000	0.924	34726.32	0.0028	P	0.8
3	☐	50.000	48.337	1861562.37	0.1443	A	0.4
4	☐	125.000	118.837	4628094.77	0.3548	A	1.2
5	☐	250.000	238.683	9279486.06	0.7125	A	1.4
6	☐	500.000	498.510	19279862.24	1.4882	A	0.7
7	☐	1000.000	1004.428	38247378.63	2.9985	A	3.2
8	☐			3789.57	0.0004	P	4.4

$$y = 0.0030 * x + 4.2190E-006$$

$$R = 0.9999$$

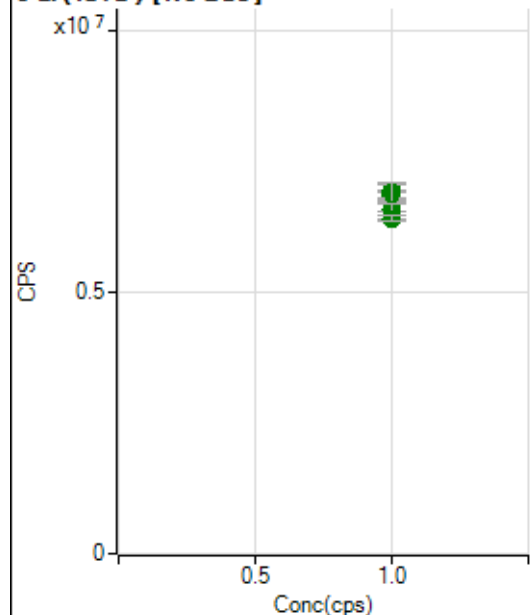
$$DL = 0.00162$$

$$BEC = 0.001413$$

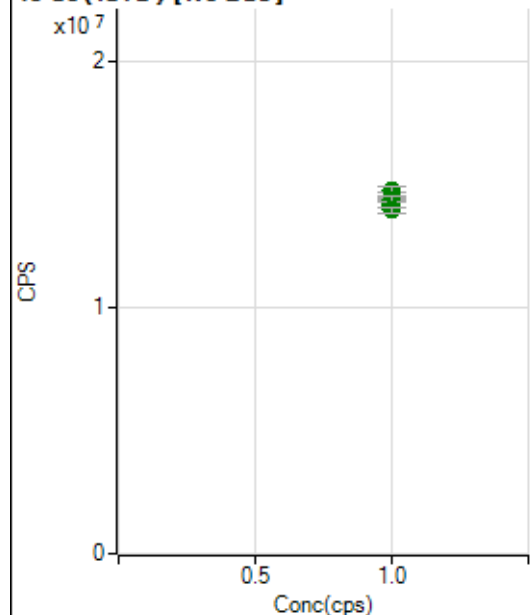
Weight: <None>

Min Conc: 0

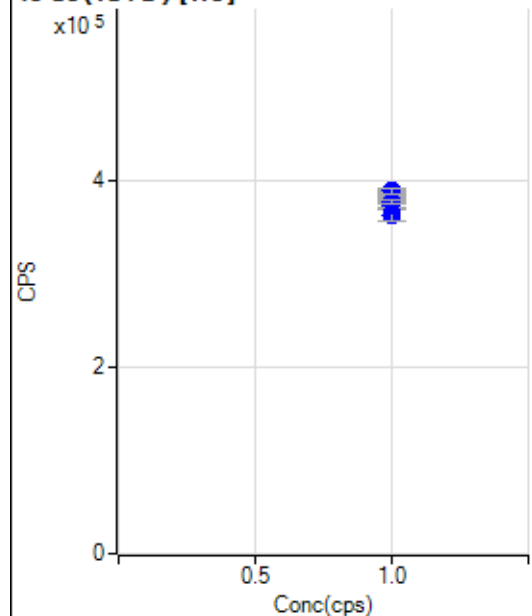
6 Li (ISTD) [No Gas]



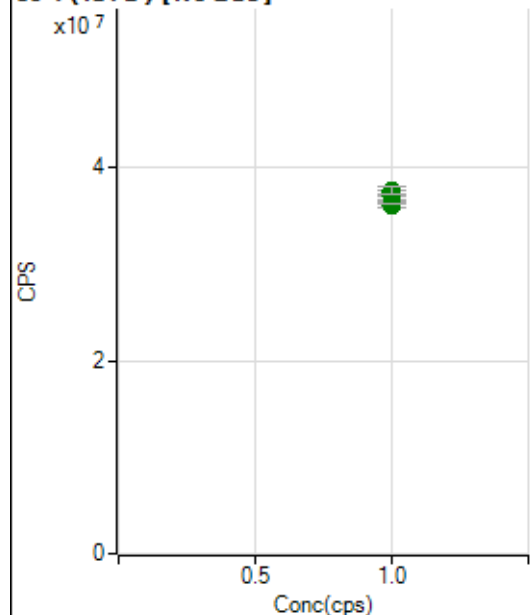
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		6854800.71		A	2.9
2	☐	1.000		6884762.07		A	2.1
3	☐	1.000		6944587.51		A	3.7
4	☐	1.000		6864882.84		A	1.7
5	☐	1.000		6924061.38		A	5.0
6	☐	1.000		6481606.42		A	1.9
7	☐	1.000		6572380.96		A	3.3
8	☐	1.000		6416929.40		A	1.9

45 Sc (ISTD) [No Gas]

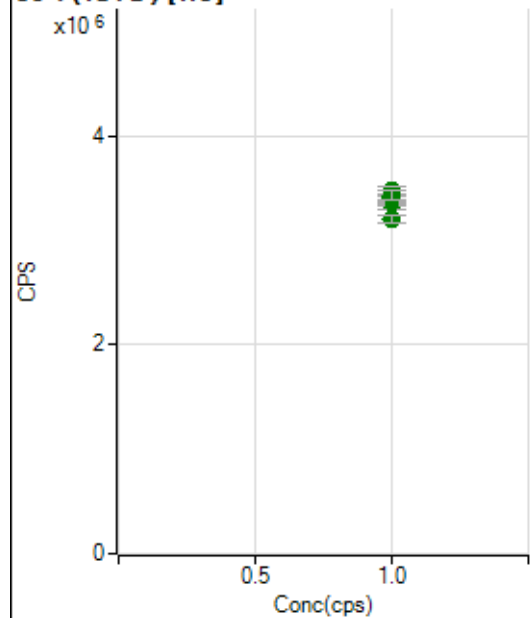
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		14416721.59		A	0.6
2	☐	1.000		14123283.82		A	4.9
3	☐	1.000		14478137.70		A	2.7
4	☐	1.000		14340054.92		A	1.0
5	☐	1.000		14715894.78		A	2.3
6	☐	1.000		14231224.93		A	2.6
7	☐	1.000		14386434.64		A	1.9
8	☐	1.000		13932814.24		A	1.8

45 Sc (ISTD) [He]

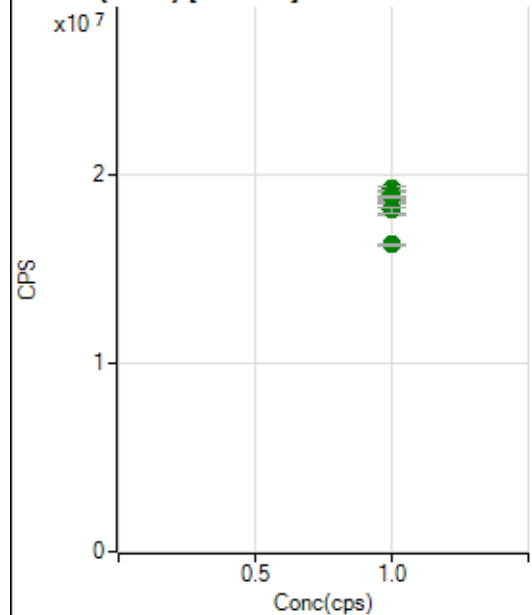
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		383344.19		P	3.1
2	☐	1.000		385365.39		P	0.9
3	☐	1.000		377148.47		P	1.4
4	☐	1.000		362385.80		P	3.1
5	☐	1.000		372449.82		P	1.2
6	☐	1.000		375459.06		P	2.4
7	☐	1.000		377627.58		P	1.1
8	☐	1.000		388377.56		P	1.6

89 Y (ISTD) [No Gas]

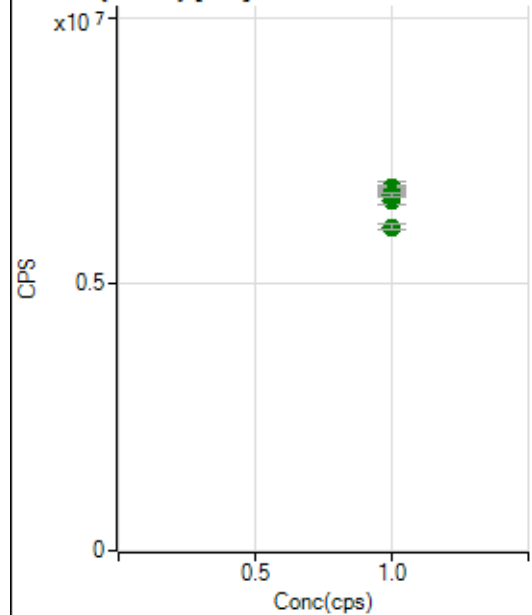
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		36546712.79		A	0.7
2	☐	1.000		36041200.02		A	1.1
3	☐	1.000		37380535.28		A	1.2
4	☐	1.000		37024102.23		A	1.6
5	☐	1.000		36641544.73		A	2.0
6	☐	1.000		37125454.45		A	2.9
7	☐	1.000		37570658.61		A	2.3
8	☐	1.000		36303892.51		A	0.2

89 Y (ISTD) [He]

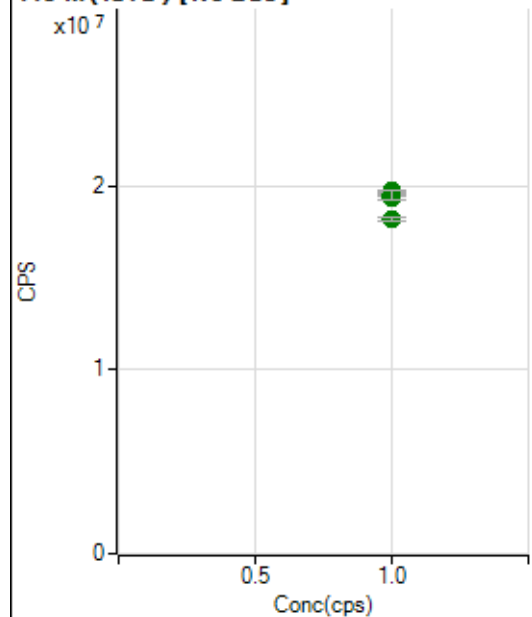
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3352122.69		A	2.7
2	☐	1.000		3401207.31		A	2.1
3	☐	1.000		3369096.48		A	1.6
4	☐	1.000		3209280.23		A	2.2
5	☐	1.000		3395286.69		A	2.8
6	☐	1.000		3401579.11		A	1.6
7	☐	1.000		3477242.34		A	2.4
8	☐	1.000		3437002.48		A	2.3

103 Rh (ISTD) [No Gas]

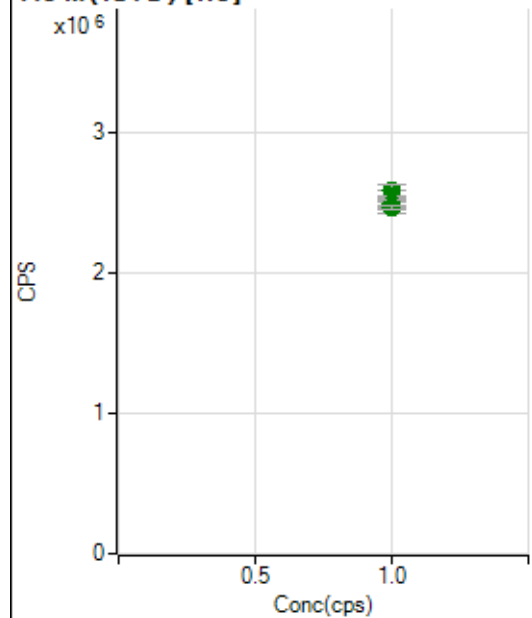
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		19247327.86		A	1.0
2	☐	1.000		18793498.16		A	2.7
3	☐	1.000		19021605.29		A	1.6
4	☐	1.000		18953644.34		A	2.8
5	☐	1.000		18833651.64		A	0.3
6	☐	1.000		18145427.66		A	3.7
7	☐	1.000		18112582.70		A	1.6
8	☐	1.000		16319549.15		A	0.6

103 Rh (ISTD) [He]

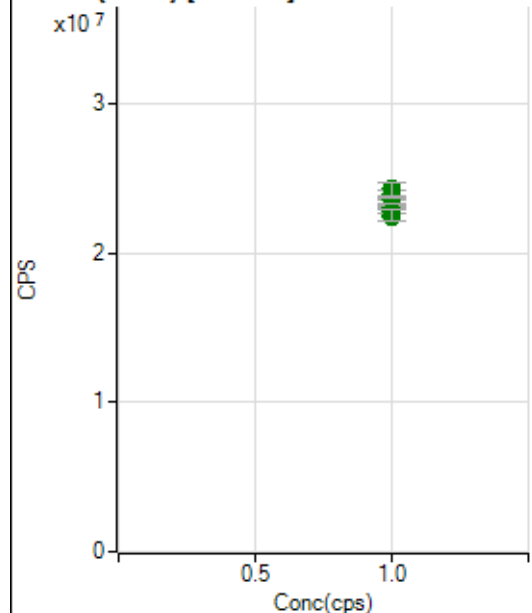
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6800919.06		A	3.6
2	☐	1.000		6796893.44		A	1.6
3	☐	1.000		6705091.22		A	2.2
4	☐	1.000		6566002.13		A	2.5
5	☐	1.000		6716252.12		A	2.5
6	☐	1.000		6646462.61		A	0.8
7	☐	1.000		6667547.75		A	1.1
8	☐	1.000		6071256.30		A	1.6

115 In (ISTD) [No Gas]

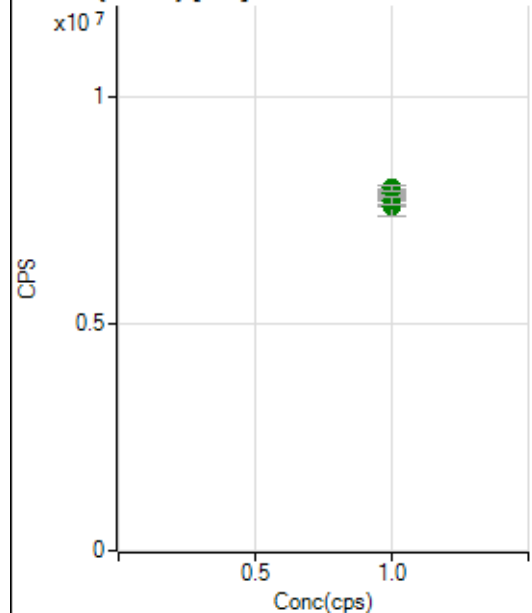
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		19532205.21		A	1.0
2	☐	1.000		19617792.75		A	1.7
3	☐	1.000		19374032.17		A	1.1
4	☐	1.000		19706360.02		A	0.4
5	☐	1.000		19630608.99		A	1.2
6	☐	1.000		19413391.16		A	1.8
7	☐	1.000		19481166.37		A	2.3
8	☐	1.000		18130473.15		A	1.1

115 In (ISTD) [He]

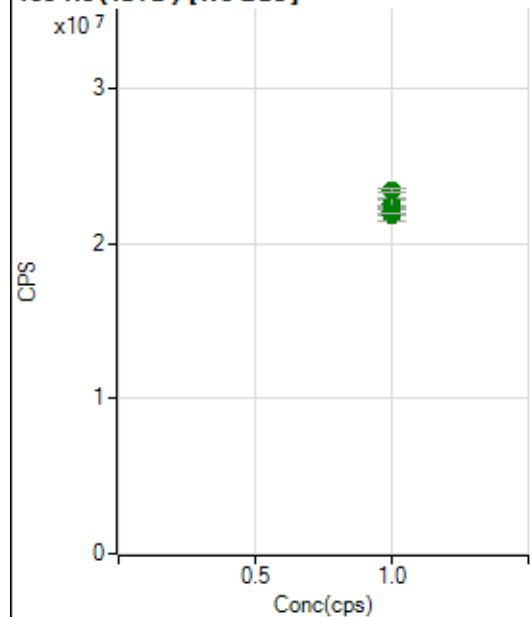
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2551100.88		A	3.7
2	☐	1.000		2588401.83		A	3.7
3	☐	1.000		2511178.24		A	2.3
4	☐	1.000		2469133.64		A	3.5
5	☐	1.000		2527392.41		A	1.6
6	☐	1.000		2547190.56		A	0.4
7	☐	1.000		2498897.69		A	2.0
8	☐	1.000		2465741.77		A	1.0

159 Tb (ISTD) [No Gas]

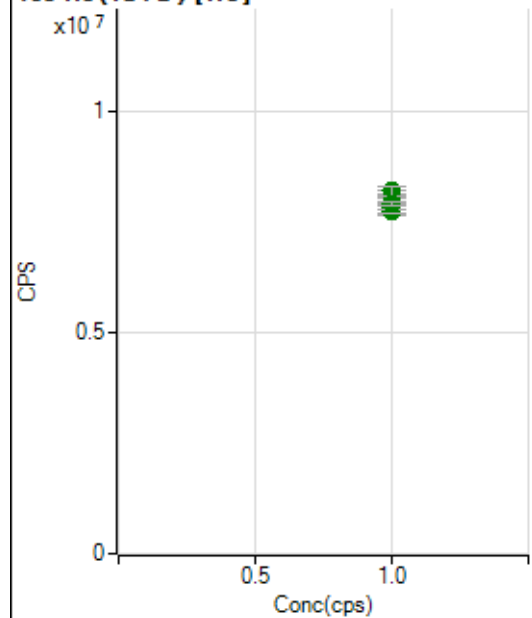
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		22355306.61		A	2.4
2	☐	1.000		22765988.83		A	1.0
3	☐	1.000		23299052.99		A	2.1
4	☐	1.000		23043113.55		A	1.4
5	☐	1.000		23525267.43		A	1.8
6	☐	1.000		23929482.98		A	1.7
7	☐	1.000		24275003.25		A	3.4
8	☐	1.000		22517852.16		A	3.9

159 Tb (ISTD) [He]

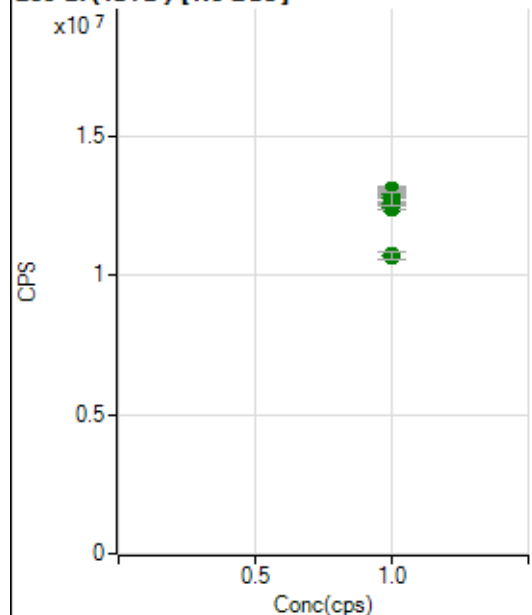
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7738029.33		A	3.9
2	☐	1.000		7722499.81		A	0.7
3	☐	1.000		7704762.25		A	2.7
4	☐	1.000		7567502.60		A	5.4
5	☐	1.000		7726465.86		A	2.2
6	☐	1.000		7893817.45		A	1.4
7	☐	1.000		7990930.09		A	1.6
8	☐	1.000		7710559.12		A	2.7

165 Ho (ISTD) [No Gas]

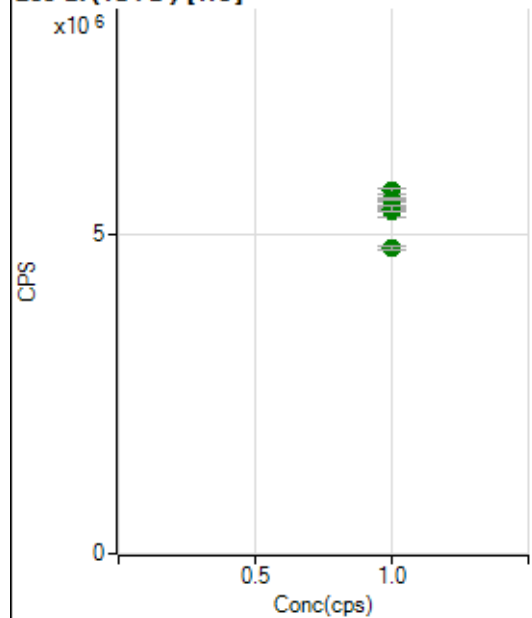
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		22073418.90		A	1.8
2	☐	1.000		21851915.42		A	4.0
3	☐	1.000		22588342.69		A	2.2
4	☐	1.000		22428784.53		A	0.8
5	☐	1.000		23418573.27		A	0.9
6	☐	1.000		22628998.08		A	3.3
7	☐	1.000		23419990.45		A	1.2
8	☐	1.000		21981158.82		A	0.2

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7827510.37		A	3.5
2	☐	1.000		7738520.44		A	1.3
3	☐	1.000		7775038.70		A	3.8
4	☐	1.000		7727542.11		A	0.8
5	☐	1.000		8118419.88		A	2.3
6	☐	1.000		8077628.35		A	0.6
7	☐	1.000		8190970.15		A	2.6
8	☐	1.000		7903237.87		A	0.7

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		12456490.51		A	1.7
2	☐	1.000		12575510.64		A	1.0
3	☐	1.000		12900433.14		A	1.4
4	☐	1.000		13047701.61		A	2.1
5	☐	1.000		13024300.50		A	2.3
6	☐	1.000		12955307.86		A	1.8
7	☐	1.000		12763888.00		A	3.5
8	☐	1.000		10700863.17		A	2.4

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5363652.42		A	3.2
2	☐	1.000		5680716.72		A	1.8
3	☐	1.000		5428568.67		A	2.8
4	☐	1.000		5353349.95		A	2.6
5	☐	1.000		5446998.84		A	1.8
6	☐	1.000		5548059.09		A	0.8
7	☐	1.000		5401386.65		A	1.7
8	☐	1.000		4791417.81		A	1.7

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP8033022-MS.b
Acq. Date-Time 2022-03-30 15:05:09
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		22040	220403.70			2.839	5.000
24		172083	1720826.05			1.772	5.000
25		23063	230632.95			2.930	5.000
26		26978	269782.02			2.177	5.000
59		47543	475431.87			2.241	5.000
113		23222	232216.20			2.579	5.000
115		67606	676058.34			2.812	5.000
206		26471	264710.53			2.060	5.000
207		22150	221500.82			2.072	5.000
208		54946	549462.12			1.826	5.000
220		0	4.50			30.429	

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

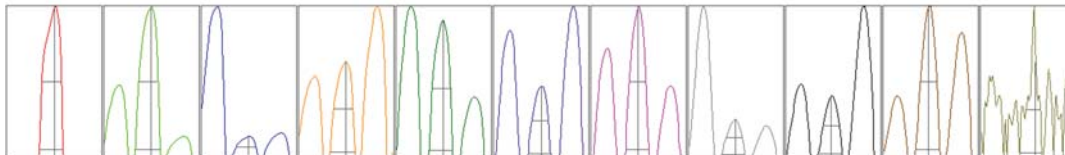
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	22013	22391	22739	21064	21995
24	170880	174280	174069	167237	173948
25	22657	23895	23424	22155	23186
26	26536	27284	27649	26212	27210
59	47215	48519	48514	45951	47517
113	23344	23843	23557	22271	23092
115	68521	69402	68867	64947	66292
206	26240	27029	26964	25711	26411
207	21986	22727	22461	21538	22038
208	54384	55845	56081	53695	54727

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	38699.21	9.05	8.90 - 9.10	
24	293059.85	24.00	23.90 - 24.10	
25	39583.85	25.00	24.90 - 25.10	
26	46606.29	26.00	25.90 - 26.10	
59	88063.68	59.00	58.90 - 59.10	
113	46531.29	113.05	112.90 - 113.10	
115	136310.78	115.00	114.90 - 115.10	
206	53194.58	206.00	205.90 - 206.10	
207	44548.91	206.95	206.90 - 207.10	
208	109209.45	207.95	207.90 - 208.10	
220	0.75	220.25	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.61	0.741	0.900	
24	0.62	0.786	0.900	
25	0.62	0.786	0.900	
26	0.61	0.788	0.900	
59	0.57	0.740	0.900	
113	0.52	0.695	0.900	
115	0.52	0.730	0.900	
206	0.51	0.733	0.900	
207	0.52	0.765	0.900	
208	0.52	0.769	0.900	
220	0.45	0.690		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.78 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	10.4 V	Deflect	15.4 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	170 V		

QP Parameters

Mass Gain	124	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	-0.2 mm
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EM

Discriminator	3.9 mV	Analog HV	2292 V	Pulse HV	1648 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		8045	80451.10			0.397	
89		31493	314929.45			0.644	
205		44099	440991.32			0.874	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	8049	8022	8074	8004	8076
89	31614	31330	31232	31575	31714
205	44563	44195	43804	43615	44318

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	10.4 V	Deflect	4.4 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	124	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	-0.2 mm
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EM

Discriminator	3.9 mV	Analog HV	2292 V	Pulse HV	1648 V
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