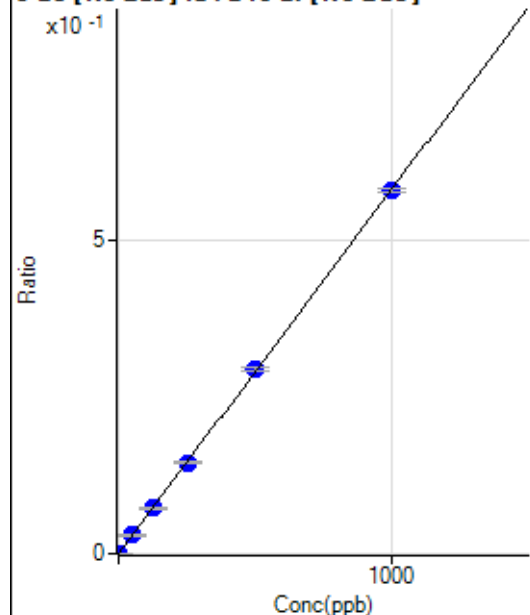


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8050621 MS.b\
Analysis File: P8050621 MS.batch.bin
DA Date-Time: 2021-05-10 16:55:29
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2021-05-06 12:12:53
2	005CALS.d	S02	2021-05-06 12:18:57
3	007CALS.d	S03	2021-05-06 12:25:01
4	008CALS.d	S04	2021-05-06 12:28:03
5	009CALS.d	S05	2021-05-06 12:31:03
6	010CALS.d	S06	2021-05-06 12:34:03
7	013CALS.d	S07	2021-05-06 12:44:47
8	014CALS.d	S08	2021-05-06 12:47:47

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	12.67	0.0000	P	55.0
2	☐	1.000	1.035	533.24	0.0006	P	0.9
3	☐	50.000	50.535	26129.24	0.0293	P	7.9
4	☐	125.000	125.003	63346.33	0.0725	P	1.8
5	☐	250.000	250.663	128889.72	0.1453	P	0.7
6	☐	500.000	506.287	260641.30	0.2936	P	1.7
7	☐	1000.000	996.664	486786.89	0.5779	P	1.1
8	☐			68.65	0.0001	P	23.1

$$y = 5.7980\text{E-}004 * x + 1.4224\text{E-}005$$

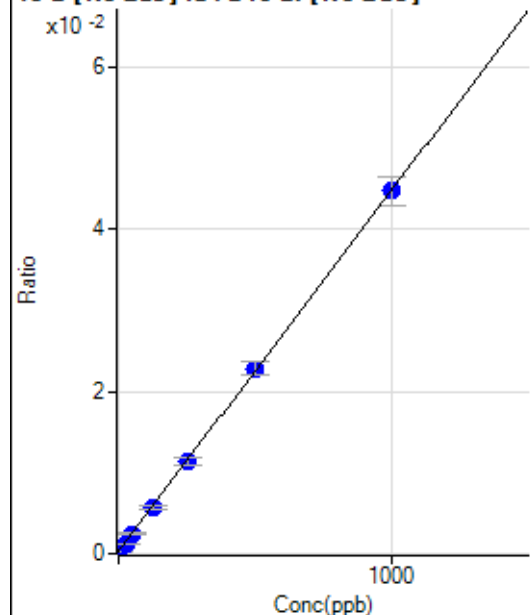
$$R = 1.0000$$

$$DL = 0.04049$$

$$BEC = 0.02453$$

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	287.28	0.0003	P	6.3
2	☐	25.000	19.470	1032.50	0.0012	P	9.8
3	☐	50.000	48.489	2218.40	0.0025	P	3.8
4	☐	125.000	121.052	4984.54	0.0057	P	9.5
5	☐	250.000	246.456	10002.11	0.0113	P	8.7
6	☐	500.000	506.216	20285.99	0.0228	P	7.9
7	☐	1000.000	998.485	37688.00	0.0447	P	7.8
8	☐			4981.88	0.0057	P	12.1

$$y = 4.4470\text{E-}005 * x + 3.2325\text{E-}004$$

$$R = 1.0000$$

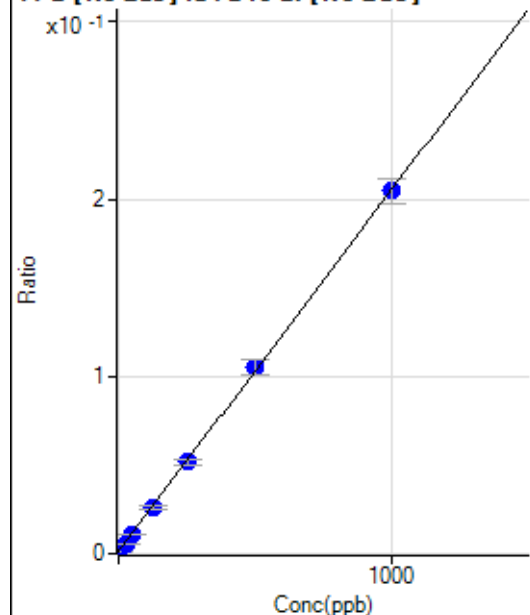
$$DL = 1.383$$

$$BEC = 7.269$$

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	1128.49	0.0013	P	2.3
2	☐	25.000	21.967	4987.87	0.0057	P	5.6
3	☐	50.000	48.084	9891.39	0.0111	P	3.6
4	☐	125.000	120.102	22484.06	0.0257	P	7.8
5	☐	250.000	247.286	45788.43	0.0517	P	6.4
6	☐	500.000	507.431	92977.23	0.1047	P	8.3
7	☐	1000.000	997.747	172362.63	0.2046	P	7.2
8	☐			22689.01	0.0261	P	8.3

$$y = 2.0374E-004 * x + 0.0013$$

$$R = 0.9999$$

$$DL = 0.4378$$

$$BEC = 6.234$$

Weight: <None>

Min Conc: 0

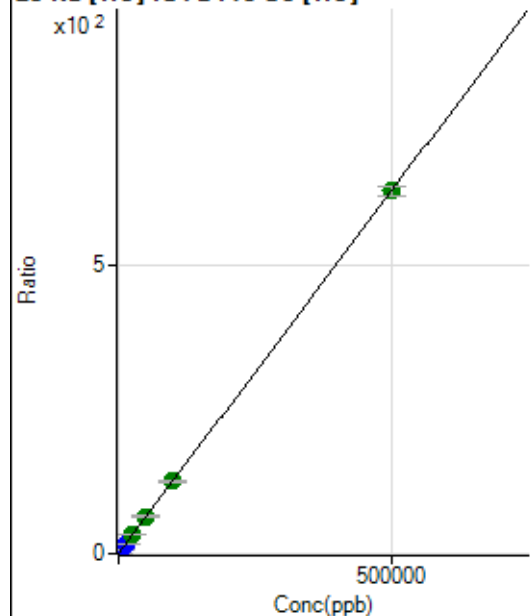
12 C [No Gas] No available calibration points



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐			2208971.84		A	1.2
2	☐			2238881.56		A	0.6
3	☐			2451058.82		A	1.2
4	☐			2549936.39		A	0.5
5	☐			2603912.71		A	2.5
6	☐			2780833.31		A	2.5
7	☐			2791863.34		A	2.6
8	☐			2851026.74		A	1.6

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			25049.57		P	0.5
2	☐			24860.46		P	1.7
3	☐			27181.29		P	1.2
4	☐			28464.29		P	3.6
5	☐			29444.00		P	2.5
6	☐			31723.71		P	1.0
7	☐			33772.62		P	0.9
8	☐			34850.19		P	1.6

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	25979.13	0.4411	P	2.7
2	☐	500.000	511.444	64501.29	1.0829	P	1.7
3	☐	5000.000	5136.632	418269.10	6.8873	P	2.0
4	☐	12500.000	12953.362	989915.12	16.6969	P	2.3
5	☐	25000.000	25487.270	1960416.89	32.4263	A	1.5
6	☐	50000.000	50943.608	4042485.29	64.3727	A	2.2
7	☐	100000.00	99402.930	7893456.95	125.1866	A	2.3
8	☐	500000.00	499987.97	39222486.64	627.9002	A	2.4

$$y = 0.0013 * x + 0.4411$$

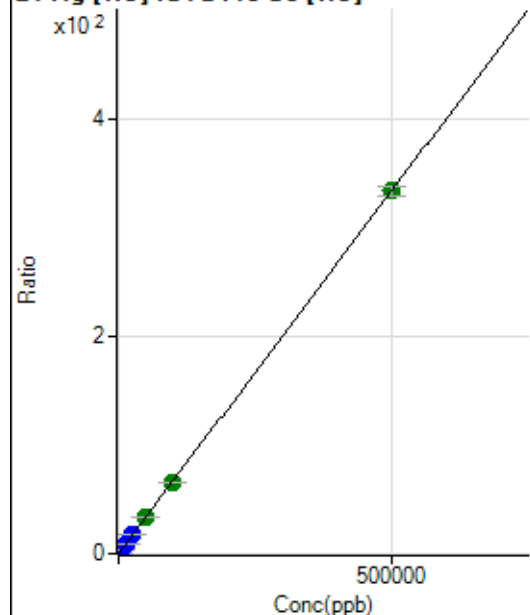
$$R = 1.0000$$

$$DL = 28.11$$

$$BEC = 351.5$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	322.23	0.0055	P	18.8
2	☐	500.000	498.238	20117.11	0.3377	P	1.7
3	☐	5000.000	5202.495	211035.20	3.4749	P	2.1
4	☐	12500.000	13074.964	517314.22	8.7250	P	1.9
5	☐	25000.000	25473.056	1027358.15	16.9930	P	1.7
6	☐	50000.000	51021.728	2137223.40	34.0310	A	1.4
7	☐	100000.00	98648.362	4149033.95	65.7924	A	0.7
8	☐	500000.00	500128.10	20834497.34	333.5325	A	2.4

$$y = 6.6688\text{E-}004 * x + 0.0055$$

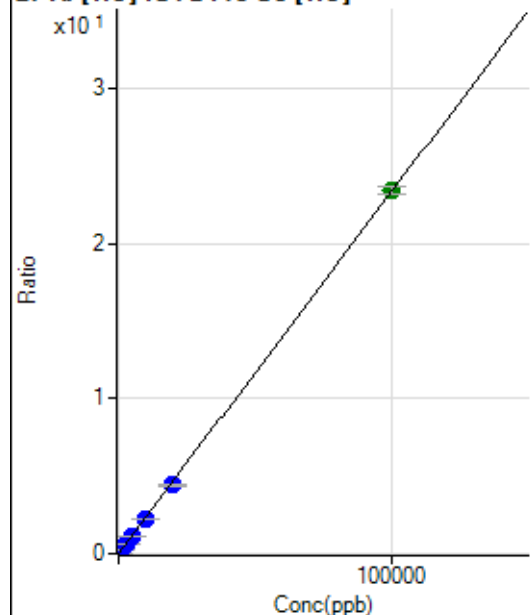
$$R = 1.0000$$

$$DL = 4.643$$

$$BEC = 8.217$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	275.80	0.0047	P	7.8
2	☐	20.000	19.728	553.28	0.0093	P	4.7
3	☐	1000.000	972.786	14075.88	0.2318	P	2.4
4	☐	2500.000	2428.747	33893.71	0.5717	P	2.1
5	☐	5000.000	4765.028	67540.46	1.1171	P	0.3
6	☐	10000.000	9631.833	141508.23	2.2532	P	1.1
7	☐	20000.000	18931.245	278980.30	4.4241	P	1.3
8	☐	100000.00	100264.37	1462319.39	23.4109	A	2.0

$$y = 2.3345\text{E-}004 * x + 0.0047$$

$$R = 0.9999$$

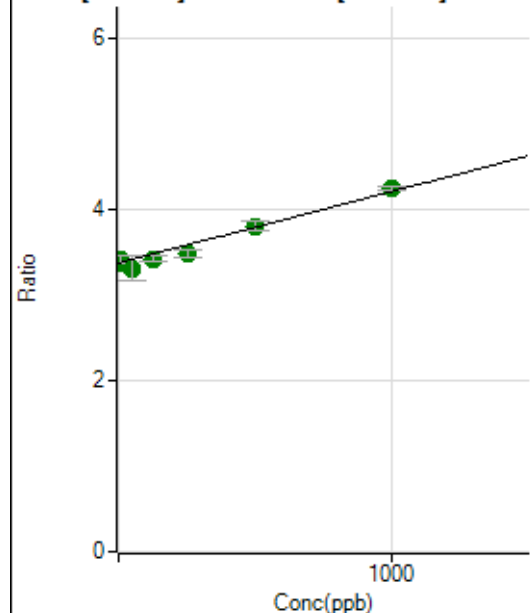
$$DL = 4.671$$

$$BEC = 20.06$$

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	5646967.05	3.3708	A	1.1
2	☐	10.000	39.799	5690269.66	3.4040	A	2.8
3	☐	50.000	-80.021	5766982.20	3.3041	A	8.9
4	☐	125.000	51.880	5814169.40	3.4141	A	2.1
5	☐	250.000	134.013	6083279.00	3.4825	A	2.4
6	☐	500.000	518.611	6659398.28	3.8031	A	2.5
7	☐	1000.000	1035.035	7417502.68	4.2336	A	1.0
8	☐			6141683.86	3.3583	A	2.1

$$y = 8.3354\text{E-}004 * x + 3.3708$$

$$R = 0.9869$$

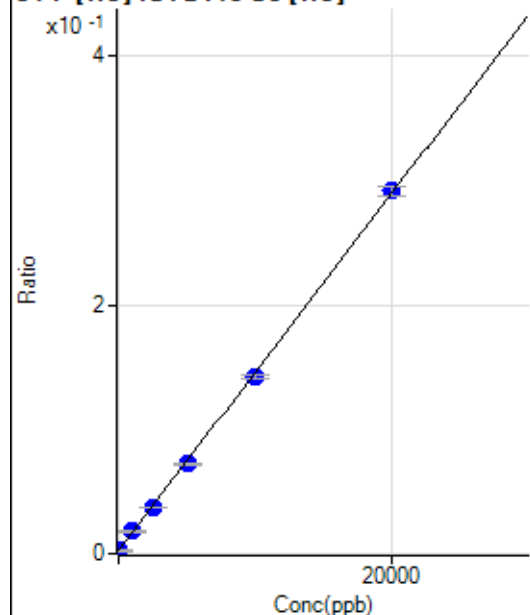
$$DL = 134.9$$

$$BEC = 4044$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	9.191	152.78	0.0026	P	8.1
2	☐	0.000	-9.191	138.89	0.0023	P	15.1
3	☐	1000.000	1089.539	1100.07	0.0181	P	10.3
4	☐	2500.000	2432.514	2216.90	0.0374	P	1.3
5	☐	5000.000	4852.542	4361.87	0.0721	P	2.5
6	☐	10000.000	9766.425	8961.35	0.1427	P	1.9
7	☐	20000.000	20157.611	18403.69	0.2919	P	2.6
8	☐			152.78	0.0024	P	22.0

$$y = 1.4357\text{E-}005 * x + 0.0025$$

$$R = 0.9998$$

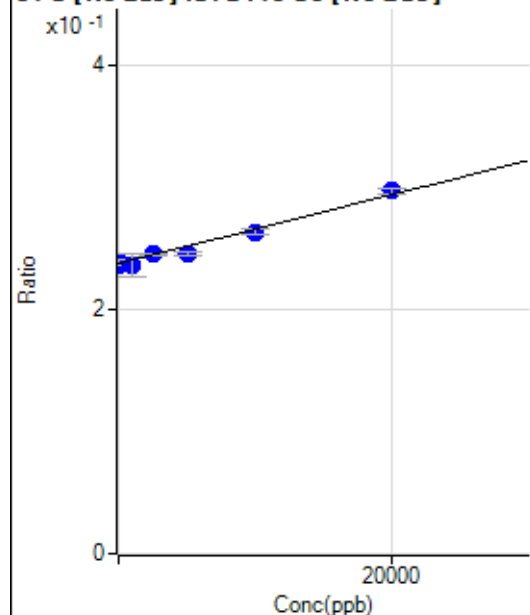
$$DL = 58.67$$

$$BEC = 171.6$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-365.140	397039.84	0.2370	P	0.5
2	☐	0.000	365.140	399660.06	0.2391	P	2.0
3	☐	1000.000	-667.129	412339.49	0.2361	P	8.2
4	☐	2500.000	2536.901	417601.92	0.2452	P	1.1
5	☐	5000.000	2706.422	429167.75	0.2457	P	1.4
6	☐	10000.000	9167.176	462027.19	0.2639	P	2.0
7	☐	20000.000	21068.550	520951.61	0.2974	P	1.8
8	☐			375342.38	0.2053	P	2.7

$$y = 2.8193E-006 * x + 0.2380$$

$$R = 0.9906$$

$$DL = 3218$$

$$BEC = 8.443E+04$$

Weight: <None>

Min Conc: 0

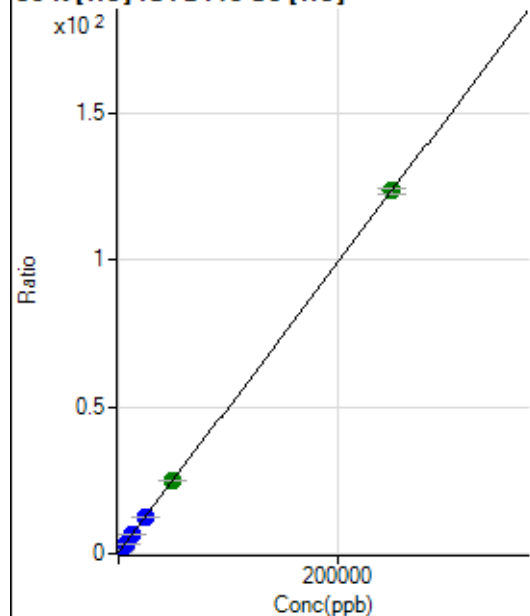
35 Cl [No Gas] No available calibration points



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			136060.78		P	1.0
2	☐			130334.24		P	1.7
3	☐			142544.51		P	1.2
4	☐			151394.47		P	1.8
5	☐			146549.97		P	2.3
6	☐			140876.53		P	2.0
7	☐			148445.37		P	2.8
8	☐			157475.23		P	1.4

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1155.63		P	5.2
2	☐			1197.30		P	2.1
3	☐			1358.44		P	14.3
4	☐			1383.44		P	1.6
5	☐			1322.32		P	9.2
6	☐			1244.53		P	17.1
7	☐			1386.21		P	12.7
8	☐			1441.78		P	5.1

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	21402.47	0.3634	P	3.3
2	☐	500.000	480.320	35753.37	0.6003	P	2.2
3	☐	2500.000	2477.511	96253.72	1.5850	P	0.9
4	☐	6250.000	6250.418	204276.14	3.4453	P	1.7
5	☐	12500.000	12301.556	388651.51	6.4289	P	2.1
6	☐	25000.000	24767.762	789742.55	12.5756	P	1.9
7	☐	50000.000	49705.247	1568535.65	24.8715	A	0.8
8	☐	250000.00	250092.35	7725238.63	123.6758	A	1.3

$$y = 4.9307\text{E-}004 * x + 0.3634$$

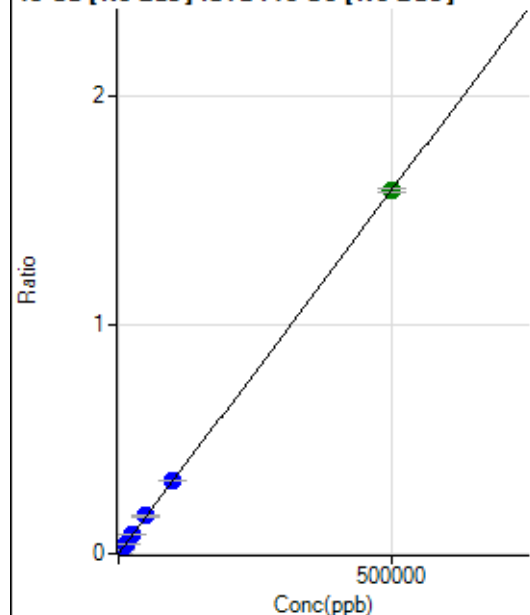
$$R = 1.0000$$

$$DL = 72.77$$

$$BEC = 737.1$$

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	168.31	0.0001	P	9.3
2	☐	500.000	488.495	2757.42	0.0016	P	1.1
3	☐	5000.000	5204.064	28984.99	0.0166	P	7.9
4	☐	12500.000	12986.294	70277.29	0.0413	P	2.3
5	☐	25000.000	25686.389	142419.68	0.0815	P	2.0
6	☐	50000.000	52312.132	290582.88	0.1659	P	2.9
7	☐	100000.00	101322.74	562843.34	0.3213	P	1.0
8	☐	500000.00	499455.73	2896197.30	1.5834	A	0.9

$$y = 3.1700\text{E-}006 * x + 1.0045\text{E-}004$$

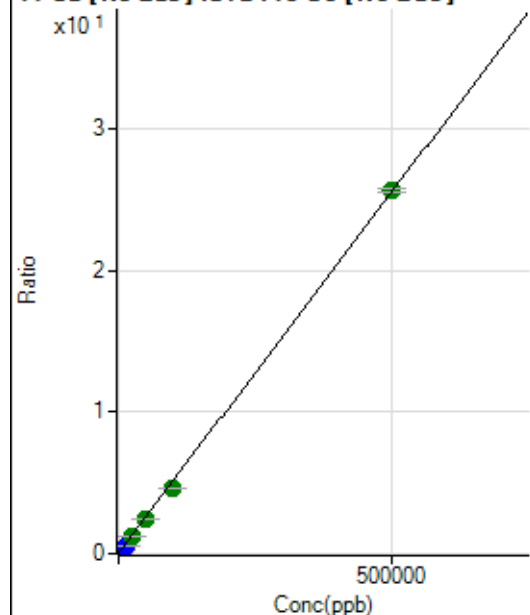
$$R = 1.0000$$

$$DL = 8.847$$

$$BEC = 31.69$$

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	39258.43	0.0234	P	2.1
2	☐	500.000	480.769	80199.51	0.0480	P	3.5
3	☐	5000.000	4480.654	440479.64	0.2522	P	7.9
4	☐	12500.000	11248.612	1018096.31	0.5978	P	1.8
5	☐	25000.000	23370.437	2125700.86	1.2167	A	1.2
6	☐	50000.000	47127.975	4255220.56	2.4298	A	3.0
7	☐	100000.00	90847.327	8168223.71	4.6621	A	0.7
8	☐	500000.00	502235.71	46948074.66	25.6677	A	1.2

$$y = 5.1060\text{E-}005 * x + 0.0234$$

$$R = 0.9998$$

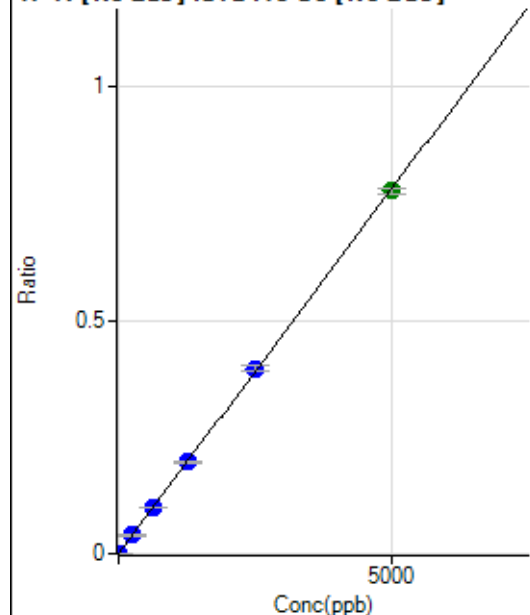
$$DL = 28.32$$

$$BEC = 459$$

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	208.34	0.0001	P	12.0
2	☐	5.000	5.077	1533.46	0.0009	P	4.0
3	☐	250.000	254.086	69460.23	0.0398	P	9.4
4	☐	625.000	632.212	168358.12	0.0989	P	2.4
5	☐	1250.000	1253.909	342328.06	0.1960	P	2.3
6	☐	2500.000	2543.872	696058.21	0.3974	P	3.1
7	☐	5000.000	4975.981	1361670.06	0.7773	A	1.7
8	☐			394.46	0.0002	P	4.4

$$y = 1.5618\text{E-}004 * x + 1.2437\text{E-}004$$

$$R = 0.9999$$

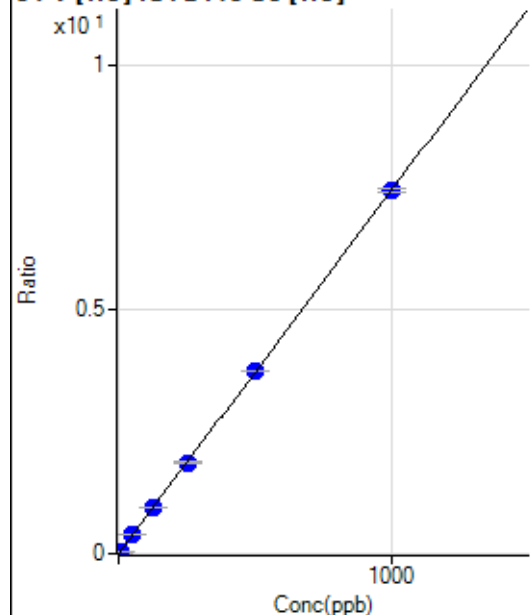
$$DL = 0.2875$$

$$BEC = 0.7963$$

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	15.56	0.0003	P	33.2
2	☐	5.000	5.228	2327.99	0.0391	P	8.9
3	☐	50.000	50.977	23010.82	0.3789	P	2.0
4	☐	125.000	126.548	55750.21	0.9402	P	1.7
5	☐	250.000	250.645	112583.03	1.8620	P	0.7
6	☐	500.000	502.585	234479.65	3.7333	P	0.3
7	☐	1000.000	998.303	467608.65	7.4154	P	1.2
8	☐			86.66	0.0014	P	13.2

$$y = 0.0074 * x + 2.6472\text{E-}004$$

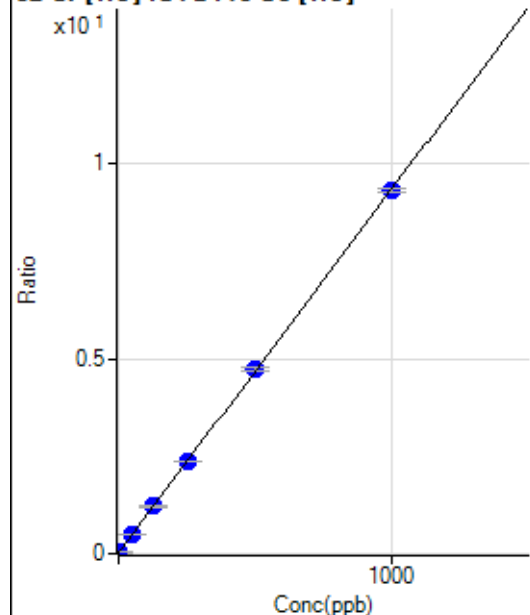
$$R = 1.0000$$

$$DL = 0.03549$$

$$BEC = 0.03564$$

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	1166.73	0.0198	P	9.4
2	☐	2.000	1.905	2240.20	0.0376	P	6.1
3	☐	50.000	51.465	30381.17	0.5002	P	3.3
4	☐	125.000	128.883	72497.88	1.2229	P	2.7
5	☐	250.000	252.385	143641.66	2.3757	P	0.4
6	☐	500.000	506.080	297926.56	4.7438	P	1.7
7	☐	1000.000	995.805	587415.89	9.3151	P	1.1
8	☐			5109.85	0.0818	P	4.1

$$y = 0.0093 * x + 0.0198$$

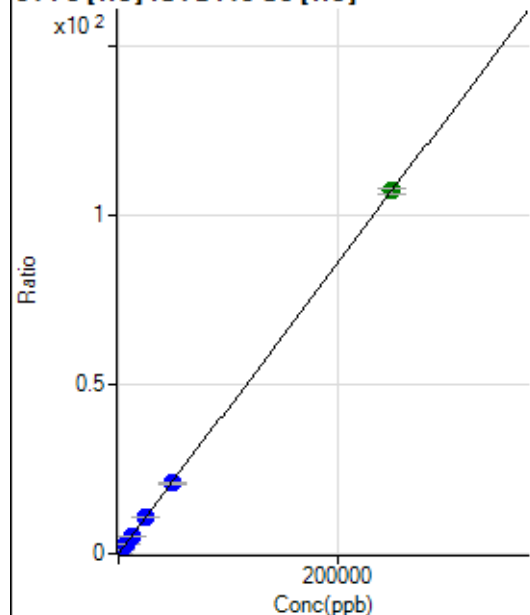
$$R = 1.0000$$

$$DL = 0.6016$$

$$BEC = 2.125$$

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	400.01	0.0068	P	9.6
2	☐	50.000	50.652	1696.43	0.0285	P	0.6
3	☐	2500.000	2506.702	65568.68	1.0797	P	2.1
4	☐	6250.000	6269.986	159504.20	2.6903	P	2.2
5	☐	12500.000	12240.956	317168.15	5.2459	P	2.4
6	☐	25000.000	24736.968	665379.36	10.5942	P	0.6
7	☐	50000.000	48529.524	1310229.92	20.7774	P	1.1
8	☐	250000.00	250332.78	6693099.69	107.1489	A	1.5

$$y = 4.2800E-004 * x + 0.0068$$

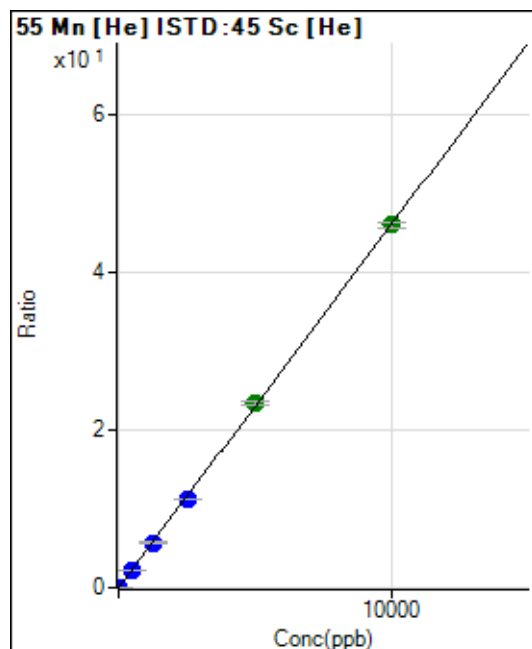
$$R = 1.0000$$

$$DL = 4.565$$

$$BEC = 15.89$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	64.45	0.0011	P	20.0
2	☐	1.000	0.952	326.67	0.0055	P	7.4
3	☐	500.000	495.750	138764.86	2.2849	P	2.4
4	☐	1250.000	1237.814	338161.27	5.7034	P	1.7
5	☐	2500.000	2431.546	677299.84	11.2026	P	1.2
6	☐	5000.000	5071.245	1467131.94	23.3630	A	2.4
7	☐	10000.000	9983.227	2900146.63	45.9912	A	1.5
8	☐			1715.68	0.0275	P	6.0

$$y = 0.0046 * x + 0.0011$$

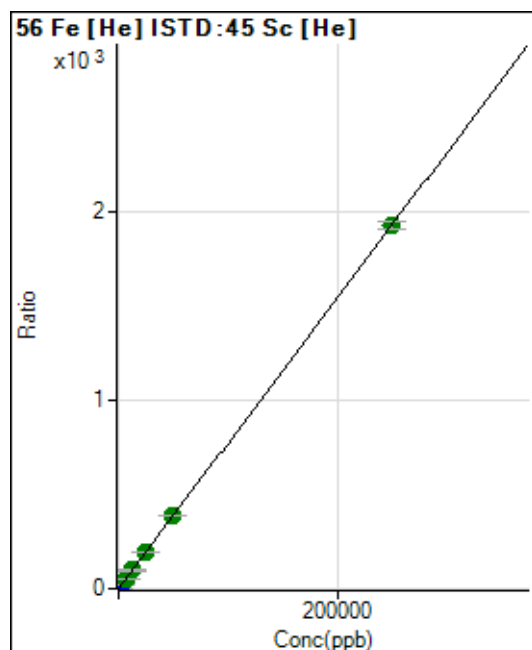
$$R = 0.9999$$

$$DL = 0.1432$$

$$BEC = 0.2384$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2224.29	0.0378	P	9.8
2	☐	50.000	49.880	25083.39	0.4211	P	0.4
3	☐	2500.000	2515.098	1176056.07	19.3655	P	1.6
4	☐	6250.000	6563.431	2992937.02	50.4757	A	1.0
5	☐	12500.000	12615.078	5863383.64	96.9806	A	1.0
6	☐	25000.000	25596.352	12357431.52	196.7376	A	0.6
7	☐	50000.000	50159.576	24308580.40	385.4981	A	1.5
8	☐	250000.00	249894.70	119960594.3	1,920.398	A	2.3

$$y = 0.0077 * x + 0.0378$$

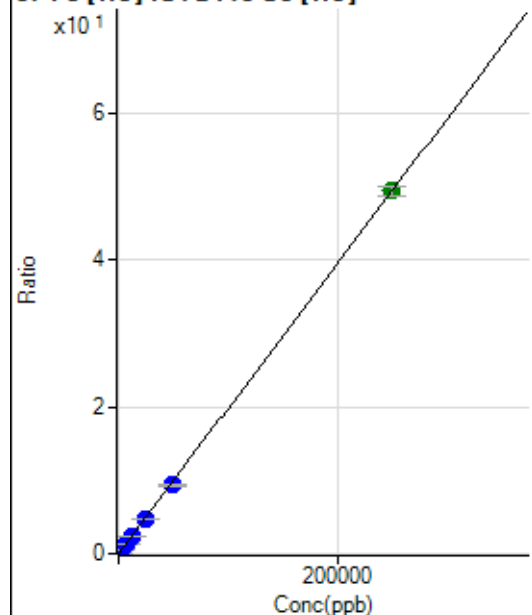
$$R = 1.0000$$

$$DL = 1.449$$

$$BEC = 4.92$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	112.96	0.0019	P	19.6
2	☐	50.000	48.266	679.66	0.0114	P	5.5
3	☐	2500.000	2453.133	29437.98	0.4847	P	1.6
4	☐	6250.000	6111.500	71420.67	1.2048	P	3.6
5	☐	12500.000	11922.381	141994.34	2.3485	P	0.7
6	☐	25000.000	23964.507	296367.97	4.7187	P	0.5
7	☐	50000.000	47415.555	588634.45	9.3344	P	1.3
8	☐	250000.00	250653.25	3081885.77	49.3363	A	2.4

$$y = 1.9682E-004 * x + 0.0019$$

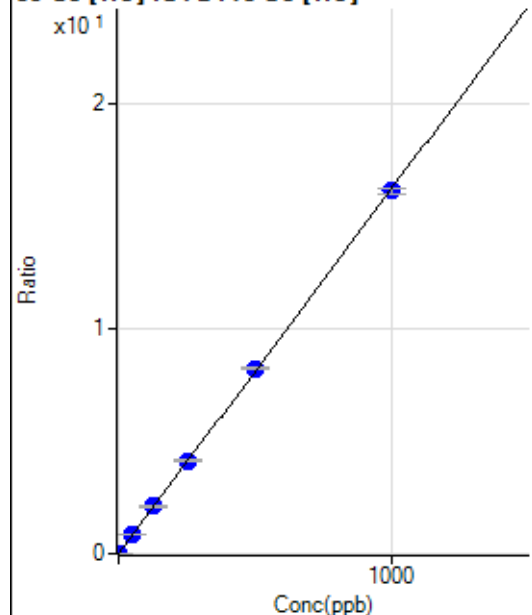
$$R = 0.9999$$

$$DL = 5.696$$

$$BEC = 9.705$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	38.89	0.0007	P	36.3
2	☐	1.000	1.044	1046.72	0.0176	P	10.9
3	☐	50.000	51.580	50812.50	0.8367	P	2.7
4	☐	125.000	130.178	125132.06	2.1106	P	2.9
5	☐	250.000	253.974	248920.11	4.1171	P	1.4
6	☐	500.000	507.690	516832.71	8.2293	P	1.5
7	☐	1000.000	994.435	1016396.73	16.1185	P	1.6
8	☐			1515.65	0.0243	P	4.6

$$y = 0.0162 * x + 6.5522E-004$$

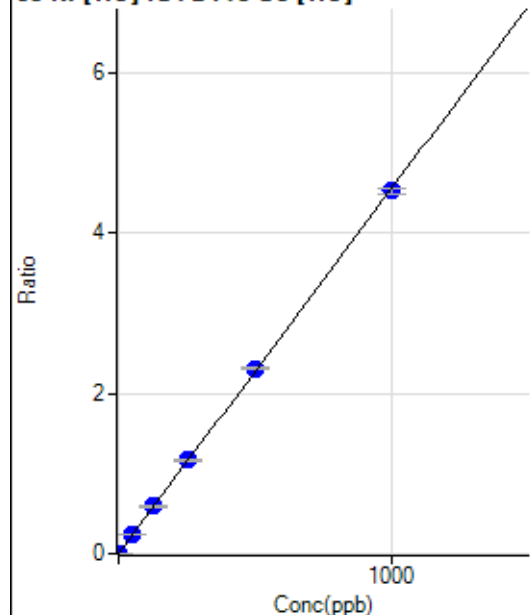
$$R = 0.9999$$

$$DL = 0.04402$$

$$BEC = 0.04043$$

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	48.89	0.0008	P	13.1
2	☐	1.000	1.179	368.90	0.0062	P	2.5
3	☐	50.000	53.036	14706.59	0.2422	P	0.8
4	☐	125.000	130.094	35148.92	0.5928	P	2.4
5	☐	250.000	256.676	70669.83	1.1689	P	1.1
6	☐	500.000	507.334	145053.94	2.3095	P	0.6
7	☐	1000.000	993.875	285248.32	4.5236	P	1.5
8	☐			1051.16	0.0168	P	2.8

$$y = 0.0046 * x + 8.2922E-004$$

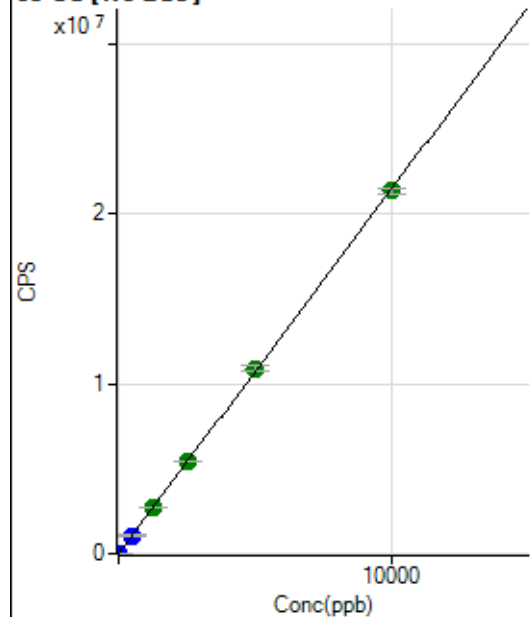
$$R = 0.9999$$

$$DL = 0.07137$$

$$BEC = 0.1822$$

Weight: <None>

Min Conc: 0

63 Cu [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	628.91		P	12.3
2	☐	2.000	1.750	4379.60		P	3.5
3	☐	500.000	498.229	1068756.58		P	1.2
4	☐	1250.000	1261.343	2704756.63		A	0.8
5	☐	2500.000	2536.624	5438765.75		A	1.6
6	☐	5000.000	5078.949	10889122.89		A	3.1
7	☐	10000.000	9950.040	21332000.93		A	1.9
8	☐			26686.29		P	5.5

$$y = 2143.8479 * x + 628.9100$$

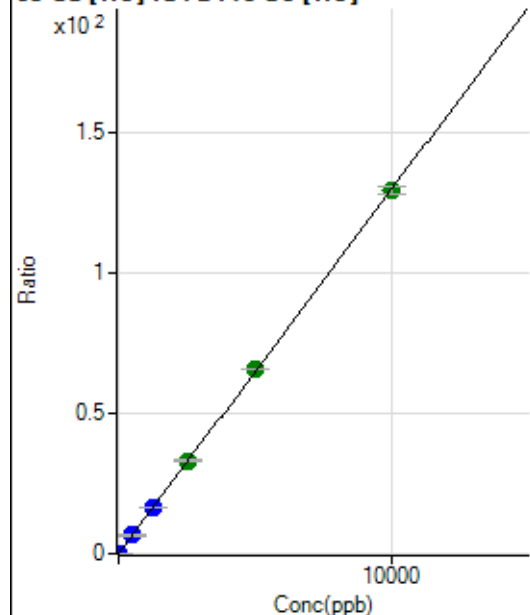
$$R = 0.9999$$

$$DL = 0.1081$$

$$BEC = 0.2934$$

Weight: <None>

Min Conc: 0

⁶³Cu [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	151.12	0.0026	P	5.1
2	☐	2.000	1.857	1589.00	0.0267	P	1.8
3	☐	500.000	502.248	396066.34	6.5216	P	2.4
4	☐	1250.000	1254.045	965230.00	16.2797	P	1.8
5	☐	2500.000	2545.017	1997477.30	33.0361	A	1.8
6	☐	5000.000	5056.693	4122423.86	65.6369	A	0.5
7	☐	10000.000	9959.781	8151546.89	129.2774	A	2.0
8	☐			4900.89	0.0785	P	3.7

$$y = 0.0130 * x + 0.0026$$

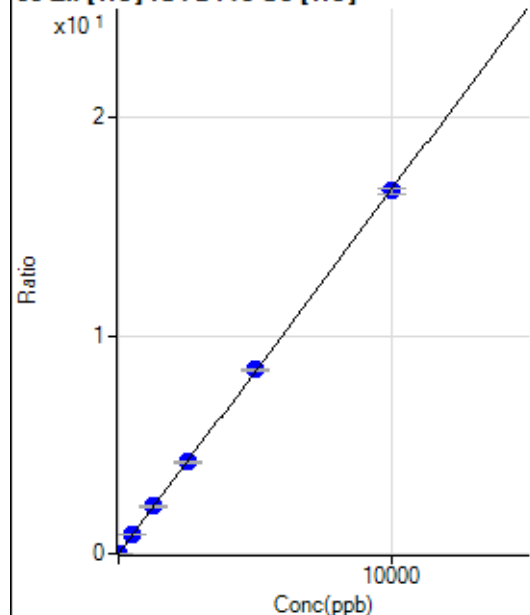
$$R = 1.0000$$

$$DL = 0.0304$$

$$BEC = 0.1978$$

Weight: <None>

Min Conc: 0

⁶⁶Zn [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	102.22	0.0017	P	13.2
2	☐	2.000	2.786	380.01	0.0064	P	9.4
3	☐	500.000	517.879	52585.97	0.8659	P	1.5
4	☐	1250.000	1298.920	128612.68	2.1693	P	2.1
5	☐	2500.000	2511.877	253527.35	4.1933	P	1.6
6	☐	5000.000	5055.283	529918.32	8.4375	P	0.8
7	☐	10000.000	9962.380	1048394.05	16.6261	P	1.6
8	☐			2460.24	0.0394	P	4.0

$$y = 0.0017 * x + 0.0017$$

$$R = 1.0000$$

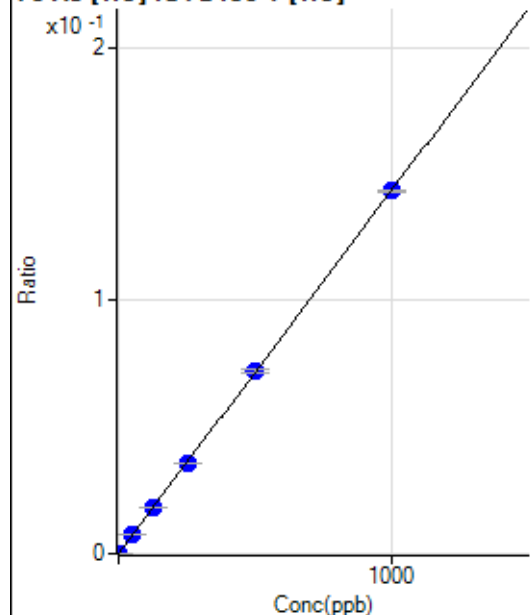
$$DL = 0.412$$

$$BEC = 1.038$$

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	5.33	0.0000	P	38.5
2	☐	1.000	1.024	76.68	0.0002	P	7.2
3	☐	50.000	51.469	3620.50	0.0074	P	0.3
4	☐	125.000	124.736	8803.63	0.0179	P	0.5
5	☐	250.000	247.821	17516.23	0.0355	P	1.2
6	☐	500.000	502.799	36575.37	0.0721	P	1.7
7	☐	1000.000	999.105	73725.76	0.1432	P	0.4
8	☐			32.00	0.0001	P	17.3

$$y = 1.4332\text{E-}004 * x + 1.1267\text{E-}005$$

$$R = 1.0000$$

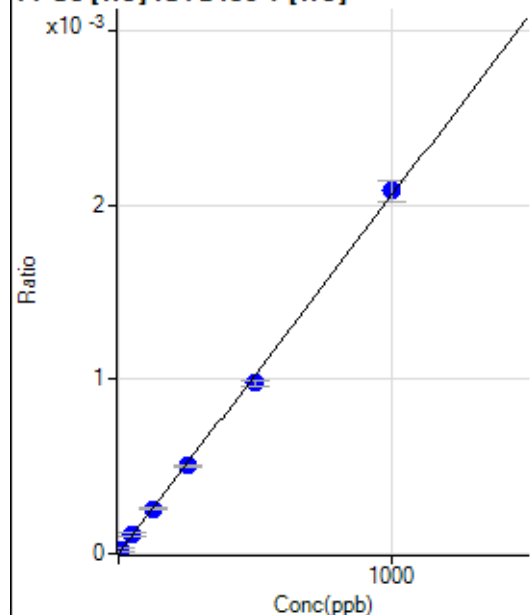
$$DL = 0.09072$$

$$BEC = 0.07862$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	10.031	10.00	0.0000	P	88.1
3	☐	50.000	53.864	54.44	0.0001	P	23.8
4	☐	125.000	123.979	125.56	0.0003	P	4.1
5	☐	250.000	246.447	250.00	0.0005	P	2.2
6	☐	500.000	475.672	496.68	0.0010	P	3.3
7	☐	1000.000	1012.962	1072.28	0.0021	P	6.1
8	☐			2.22	0.0000	P	86.6

$$y = 2.0570\text{E-}006 * x + 0.0000\text{E+}000$$

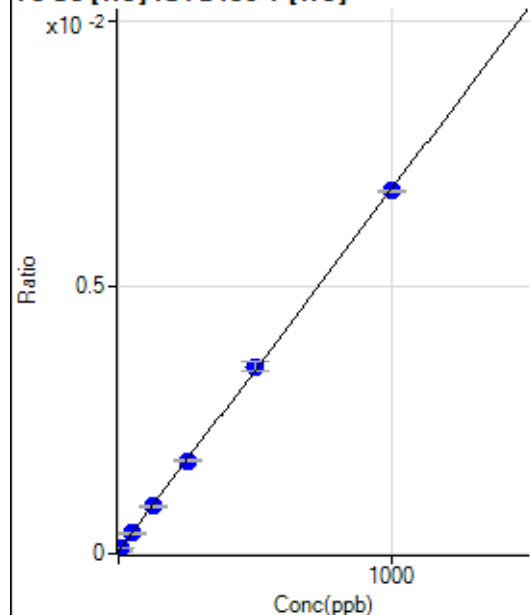
$$R = 0.9995$$

$$DL = 0$$

$$BEC = 0$$

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	24.67	0.0001	P	16.3
2	☐	5.000	7.008	48.34	0.0001	P	15.5
3	☐	50.000	49.342	189.69	0.0004	P	7.8
4	☐	125.000	123.136	436.72	0.0009	P	2.3
5	☐	250.000	250.027	861.78	0.0017	P	1.6
6	☐	500.000	510.067	1781.63	0.0035	P	5.1
7	☐	1000.000	995.216	3501.79	0.0068	P	0.8
8	☐			31.67	0.0001	P	8.8

$$y = 6.7821\text{E-}006 * x + 5.2043\text{E-}005$$

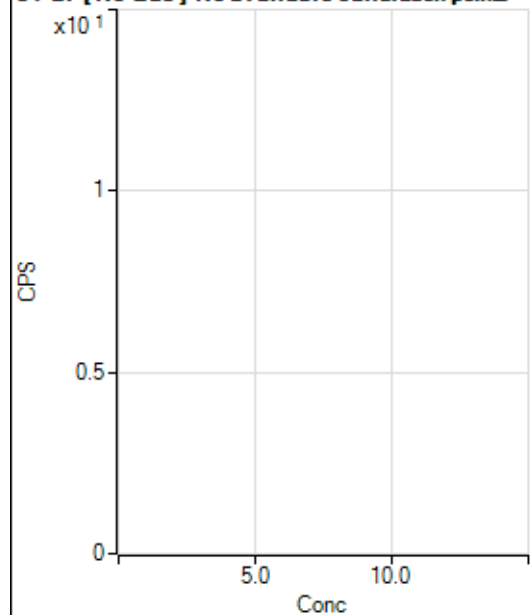
$$R = 0.9999$$

$$DL = 3.747$$

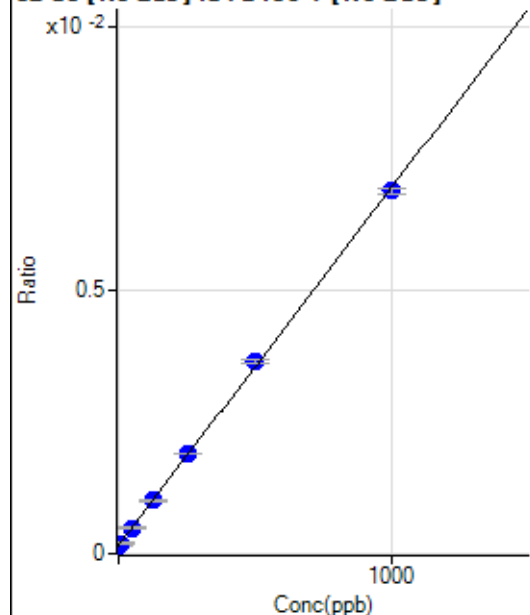
$$BEC = 7.674$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			1648.47		P	7.8
2	☐			1625.11		P	11.0
3	☐			1665.16		P	10.8
4	☐			1438.23		P	11.1
5	☐			1451.58		P	8.1
6	☐			1341.45		P	2.6
7	☐			1338.12		P	10.9
8	☐			1521.65		P	6.3

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	633.43	0.0002	P	15.1
2	☐	5.000	5.981	781.19	0.0002	P	16.1
3	☐	50.000	49.140	2049.33	0.0005	P	12.1
4	☐	125.000	126.451	4166.53	0.0010	P	2.3
5	☐	250.000	255.203	7904.03	0.0019	P	0.4
6	☐	500.000	514.692	15565.96	0.0037	P	2.9
7	☐	1000.000	991.210	29660.06	0.0069	P	1.8
8	☐			558.26	0.0001	P	23.0

$$y = 6.8012\text{E-}006 * x + 1.5446\text{E-}004$$

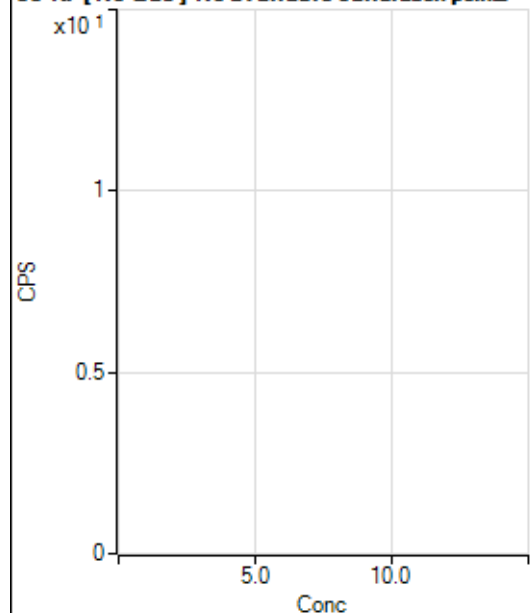
$$R = 0.9998$$

$$DL = 10.28$$

$$BEC = 22.71$$

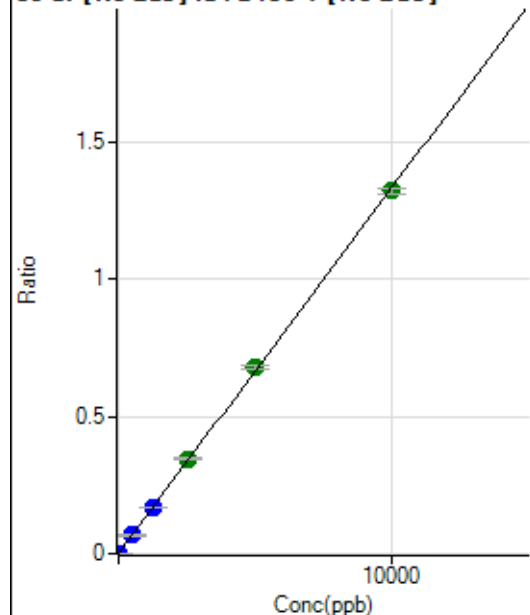
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			1870.14		P	3.2
2	☐			1870.14		P	6.3
3	☐			1880.14		P	5.1
4	☐			1811.24		P	2.8
5	☐			1845.70		P	2.5
6	☐			1887.92		P	4.8
7	☐			1885.70		P	1.6
8	☐			1843.47		P	8.7

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	2842.03	0.0007	P	4.4
2	☐	1.000	1.752	3714.49	0.0009	P	2.2
3	☐	500.000	503.088	283527.25	0.0675	P	10.1
4	☐	1250.000	1241.850	680580.25	0.1657	P	0.4
5	☐	2500.000	2598.637	1446178.73	0.3459	A	3.4
6	☐	5000.000	5098.354	2887970.70	0.6781	A	1.3
7	☐	10000.000	9927.028	5675476.86	1.3196	A	1.6
8	☐			6521.14	0.0015	P	4.3

$$y = 1.3286\text{E-}004 * x + 6.9349\text{E-}004$$

$$R = 0.9999$$

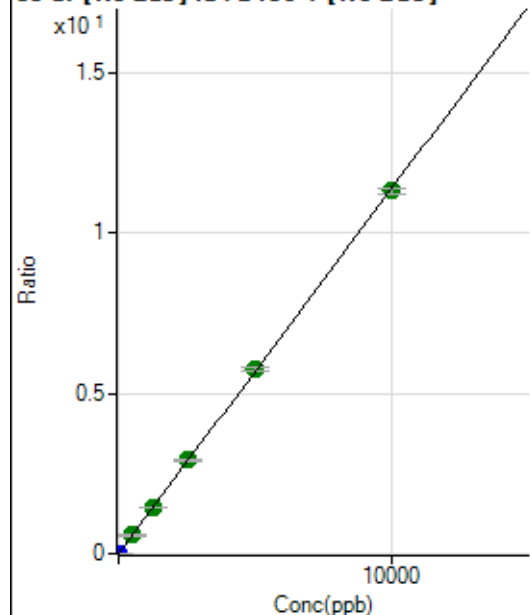
$$DL = 0.6829$$

$$BEC = 5.22$$

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	388.91	0.0001	P	12.3
2	☐	1.000	1.006	4976.03	0.0012	P	5.1
3	☐	500.000	518.551	2481697.84	0.5908	A	9.1
4	☐	1250.000	1265.385	5920618.45	1.4415	A	1.7
5	☐	2500.000	2568.880	12234987.25	2.9263	A	1.8
6	☐	5000.000	5076.840	24629846.56	5.7831	A	1.9
7	☐	10000.000	9941.509	48704936.85	11.3243	A	1.9
8	☐			31171.51	0.0071	P	2.9

$$y = 0.0011 * x + 9.4907\text{E-}005$$

$$R = 0.9999$$

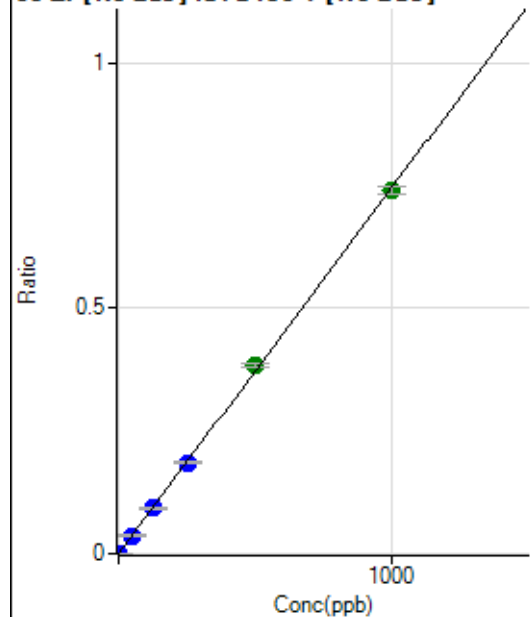
$$DL = 0.03062$$

$$BEC = 0.08332$$

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	175.01	0.0000	P	1.4
2	☐	1.000	0.998	3144.88	0.0008	P	12.3
3	☐	50.000	49.776	155834.65	0.0371	P	8.9
4	☐	125.000	124.554	380956.89	0.0927	P	1.7
5	☐	250.000	248.030	771996.18	0.1847	P	2.4
6	☐	500.000	516.056	1636342.93	0.3841	A	2.5
7	☐	1000.000	992.532	3177708.04	0.7388	A	2.2
8	☐			1219.53	0.0003	P	12.8

$$y = 7.4431E-004 * x + 4.2725E-005$$

$$R = 0.9998$$

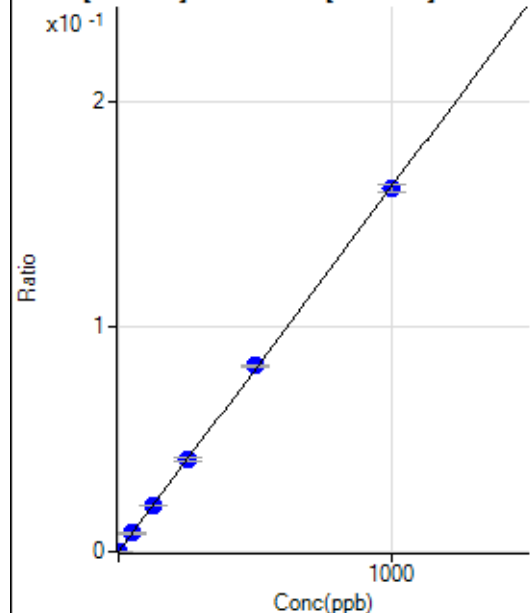
$$DL = 0.002388$$

$$BEC = 0.0574$$

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	61.11	0.0000	P	35.3
2	☐	1.000	0.941	672.26	0.0002	P	14.0
3	☐	50.000	50.892	34729.98	0.0083	P	9.6
4	☐	125.000	126.968	84665.58	0.0206	P	0.4
5	☐	250.000	252.919	171578.69	0.0410	P	2.7
6	☐	500.000	509.465	352074.70	0.0827	P	1.4
7	☐	1000.000	994.247	693757.46	0.1613	P	1.9
8	☐			291.68	0.0001	P	6.3

$$y = 1.6221E-004 * x + 1.4958E-005$$

$$R = 0.9999$$

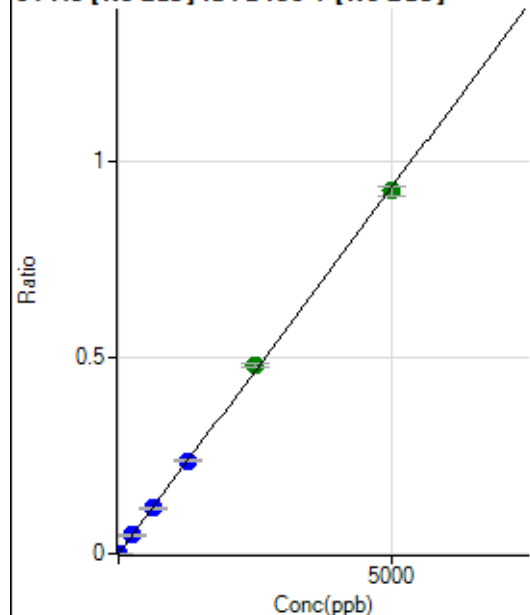
$$DL = 0.0976$$

$$BEC = 0.09221$$

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	111.12	0.0000	P	5.2
2	☐	5.000	4.693	3617.24	0.0009	P	4.2
3	☐	250.000	249.655	195472.70	0.0465	P	9.3
4	☐	625.000	621.134	475397.39	0.1157	P	1.6
5	☐	1250.000	1270.725	989842.12	0.2368	P	2.4
6	☐	2500.000	2576.930	2045084.42	0.4801	A	2.1
7	☐	5000.000	4956.855	3971912.55	0.9235	A	2.6
8	☐			1250.10	0.0003	P	10.4

$$y = 1.8630E-004 * x + 2.7132E-005$$

R = 0.9998

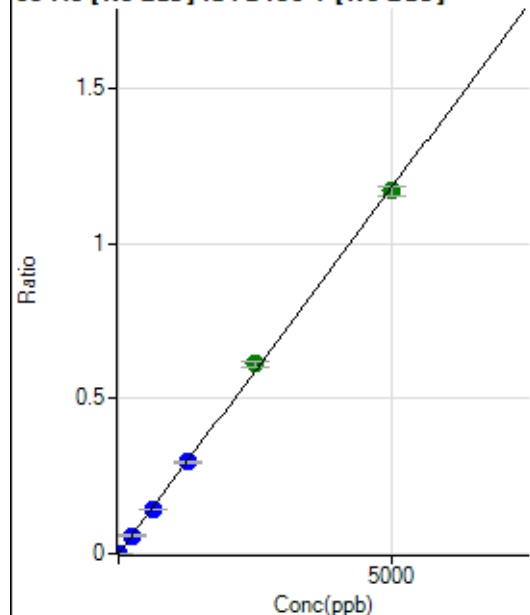
DL = 0.02254

BEC = 0.1456

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	25.00	0.0000	P	33.6
2	☐	5.000	4.630	4409.15	0.0011	P	3.7
3	☐	250.000	247.462	245439.99	0.0584	P	9.0
4	☐	625.000	612.227	593602.18	0.1445	P	1.5
5	☐	1250.000	1248.458	1232181.24	0.2947	P	1.7
6	☐	2500.000	2589.124	2603210.54	0.6112	A	3.1
7	☐	5000.000	4957.548	5033038.70	1.1702	A	2.4
8	☐			1425.11	0.0003	P	1.0

$$y = 2.3605E-004 * x + 6.1030E-006$$

R = 0.9998

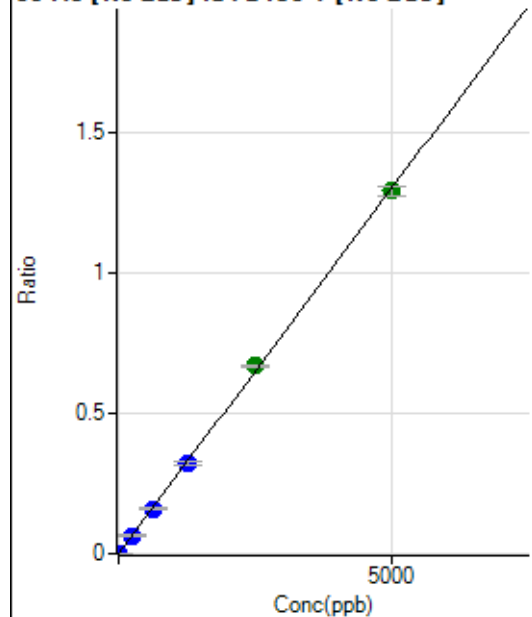
DL = 0.02606

BEC = 0.02585

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	88.89	0.0000	P	61.0
2	☐	5.000	4.913	5209.45	0.0013	P	6.8
3	☐	250.000	249.827	272948.20	0.0650	P	9.9
4	☐	625.000	617.347	659680.15	0.1606	P	1.4
5	☐	1250.000	1236.932	1345240.71	0.3218	P	2.6
6	☐	2500.000	2570.431	2847960.54	0.6687	A	1.8
7	☐	5000.000	4969.017	5558299.99	1.2926	A	2.6
8	☐			2089.11	0.0005	P	5.7

$$y = 2.6013\text{E-}004 * x + 2.1744\text{E-}005$$

R = 0.9998

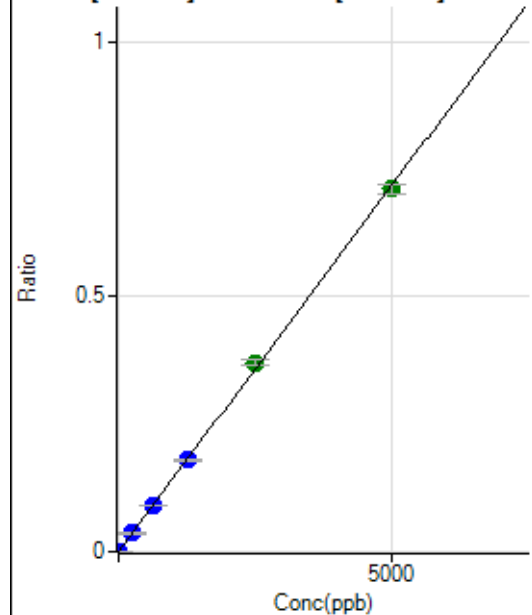
DL = 0.153

BEC = 0.08359

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	5.55	0.0000	P	86.6
2	☐	5.000	5.091	2936.50	0.0007	P	5.4
3	☐	250.000	251.907	151917.27	0.0362	P	9.3
4	☐	625.000	625.589	368936.05	0.0898	P	1.4
5	☐	1250.000	1252.732	751888.08	0.1799	P	3.4
6	☐	2500.000	2581.529	1578720.16	0.3706	A	2.9
7	☐	5000.000	4958.383	3061125.53	0.7119	A	3.0
8	☐			891.72	0.0002	P	9.8

$$y = 1.4358\text{E-}004 * x + 1.3502\text{E-}006$$

R = 0.9998

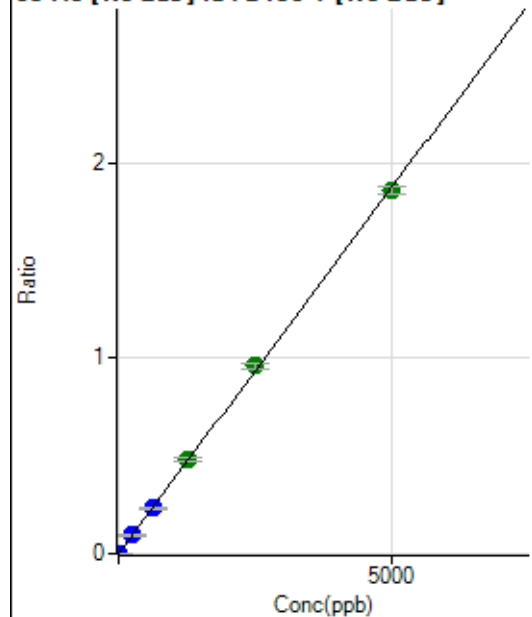
DL = 0.02444

BEC = 0.009404

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	19.45	0.0000	P	25.5
2	☐	5.000	4.635	6976.97	0.0017	P	1.5
3	☐	250.000	251.057	394852.57	0.0940	P	8.6
4	☐	625.000	619.915	952973.07	0.2320	P	1.6
5	☐	1250.000	1283.619	2008348.87	0.4804	A	2.8
6	☐	2500.000	2568.602	4095094.27	0.9613	A	3.0
7	☐	5000.000	4957.878	7980044.10	1.8555	A	2.1
8	☐			2447.51	0.0006	P	11.0

$$y = 3.7425\text{E-}004 * x + 4.7531\text{E-}006$$

$$R = 0.9998$$

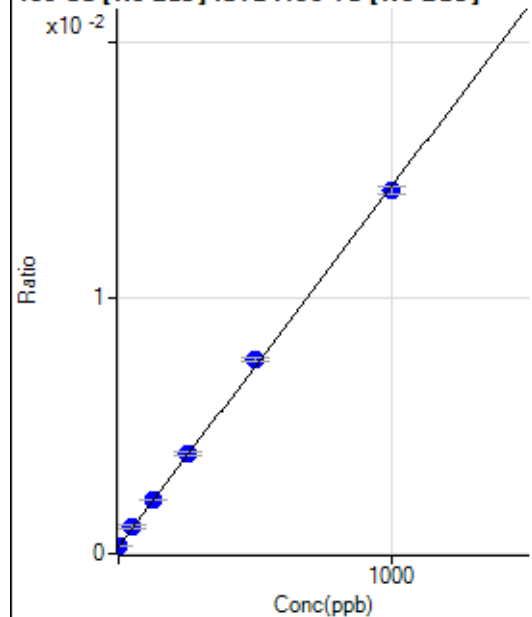
$$DL = 0.009727$$

$$BEC = 0.0127$$

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	847.27	0.0003	P	0.4
2	☐	1.000	1.342	883.38	0.0003	P	11.4
3	☐	50.000	54.441	3264.37	0.0010	P	9.8
4	☐	125.000	127.920	6348.85	0.0021	P	1.1
5	☐	250.000	258.849	12164.00	0.0039	P	2.8
6	☐	500.000	519.532	23784.80	0.0076	P	2.0
7	☐	1000.000	987.435	44809.53	0.0142	P	2.0
8	☐			944.51	0.0003	P	13.7

$$y = 1.4091\text{E-}005 * x + 2.8242\text{E-}004$$

$$R = 0.9997$$

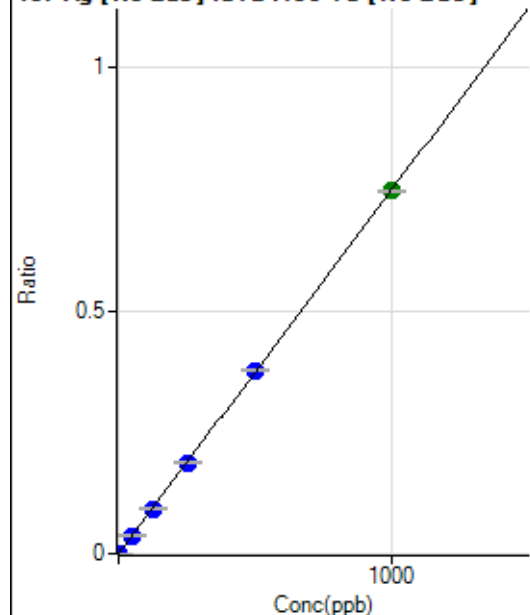
$$DL = 0.2444$$

$$BEC = 20.04$$

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	22.22	0.0000	P	57.4
2	☐	1.000	0.958	2125.22	0.0007	P	5.9
3	☐	50.000	49.892	115772.77	0.0374	P	10.1
4	☐	125.000	123.653	281901.83	0.0926	P	1.1
5	☐	250.000	250.920	581633.38	0.1879	P	1.9
6	☐	500.000	504.219	1181487.09	0.3775	P	1.6
7	☐	1000.000	997.834	2357663.62	0.7471	A	0.3
8	☐			752.82	0.0002	P	5.2

$$y = 7.4872\text{E-}004 * x + 7.4074\text{E-}006$$

$$R = 1.0000$$

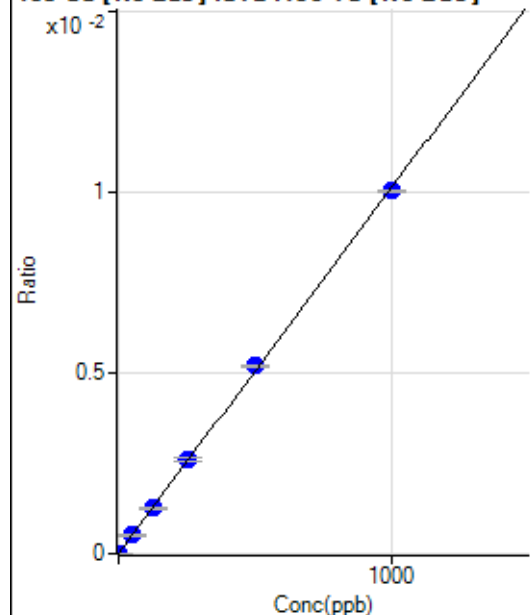
$$DL = 0.01703$$

$$BEC = 0.009893$$

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	12.50	0.0000	P	115.
2	☐	1.000	1.091	44.44	0.0000	P	36.4
3	☐	50.000	51.185	1614.00	0.0005	P	13.7
4	☐	125.000	124.147	3838.09	0.0013	P	1.9
5	☐	250.000	257.944	8091.36	0.0026	P	3.9
6	☐	500.000	512.804	16254.15	0.0052	P	1.3
7	☐	1000.000	991.659	31680.87	0.0100	P	0.3
8	☐			22.22	0.0000	P	21.4

$$y = 1.0119\text{E-}005 * x + 4.1589\text{E-}006$$

$$R = 0.9998$$

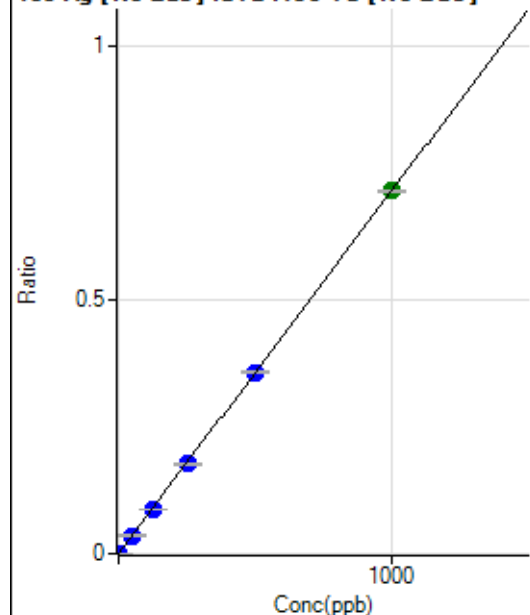
$$DL = 1.421$$

$$BEC = 0.411$$

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	5.55	0.0000	P	86.6
2	☐	1.000	0.918	1925.20	0.0007	P	9.7
3	☐	50.000	50.317	111365.69	0.0359	P	9.2
4	☐	125.000	123.561	268549.78	0.0882	P	1.1
5	☐	250.000	247.711	547476.66	0.1768	P	0.9
6	☐	500.000	500.443	1117886.10	0.3572	P	1.8
7	☐	1000.000	1000.515	2253635.34	0.7142	A	0.8
8	☐			663.93	0.0002	P	12.9

$$y = 7.1382\text{E-}004 * x + 1.8488\text{E-}006$$

$$R = 1.0000$$

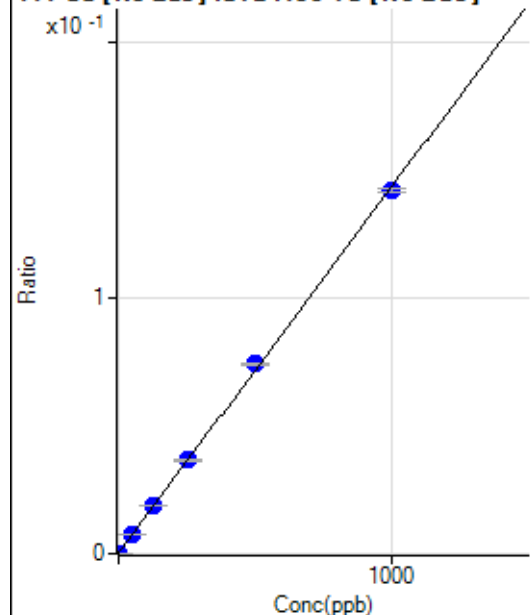
$$DL = 0.006729$$

$$BEC = 0.00259$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	589.89	0.0002	P	2.0
2	☐	1.000	1.044	1015.05	0.0003	P	7.9
3	☐	50.000	51.754	23629.30	0.0076	P	7.1
4	☐	125.000	128.251	56533.98	0.0186	P	1.3
5	☐	250.000	255.167	113763.84	0.0367	P	1.9
6	☐	500.000	517.418	232547.72	0.0743	P	0.9
7	☐	1000.000	989.505	447890.78	0.1419	P	1.0
8	☐			852.55	0.0003	P	8.8

$$y = 1.4325\text{E-}004 * x + 1.9663\text{E-}004$$

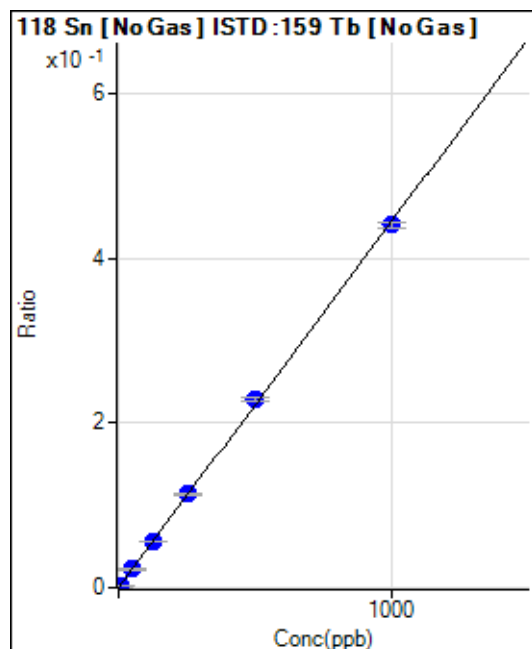
$$R = 0.9998$$

$$DL = 0.08433$$

$$BEC = 1.373$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	213.90	0.0001	P	19.8
2	☐	5.000	5.337	7152.03	0.0024	P	3.6
3	☐	50.000	51.461	71031.80	0.0229	P	9.6
4	☐	125.000	127.090	171985.01	0.0565	P	1.9
5	☐	250.000	255.017	350717.30	0.1133	P	1.2
6	☐	500.000	514.508	714869.57	0.2285	P	1.2
7	☐	1000.000	991.156	1388708.87	0.4401	P	1.8
8	☐			1047.29	0.0003	P	6.2

$$y = 4.4392\text{E-}004 * x + 7.1273\text{E-}005$$

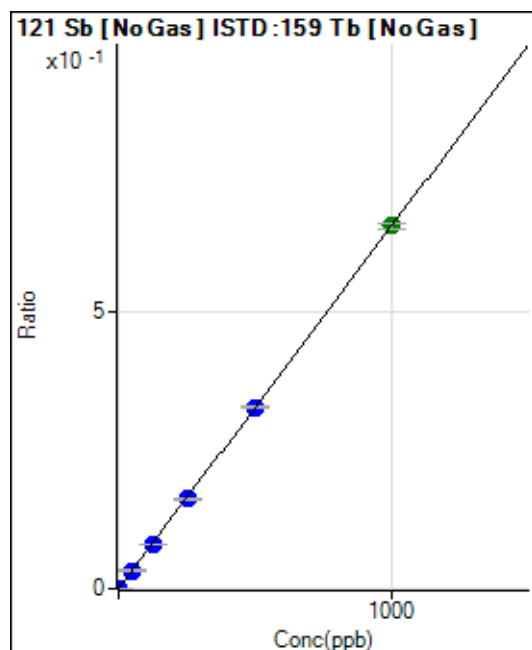
$$R = 0.9998$$

$$DL = 0.09513$$

$$BEC = 0.1606$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	44.45	0.0000	P	54.0
2	☐	2.000	1.970	3825.65	0.0013	P	5.1
3	☐	50.000	49.855	101265.89	0.0327	P	9.2
4	☐	125.000	123.338	245965.07	0.0808	P	0.7
5	☐	250.000	247.022	500877.34	0.1618	P	1.4
6	☐	500.000	500.613	1025910.87	0.3278	P	1.3
7	☐	1000.000	1000.653	2067868.21	0.6553	A	1.3
8	☐			1405.67	0.0004	P	10.7

$$y = 6.5484\text{E-}004 * x + 1.4804\text{E-}005$$

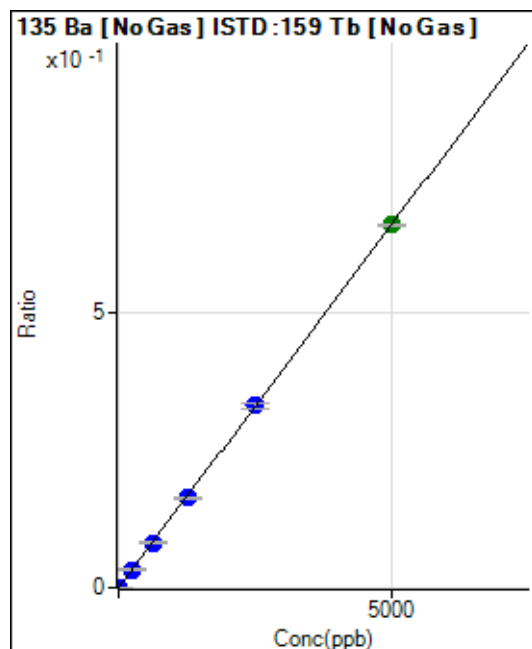
$$R = 1.0000$$

$$DL = 0.03664$$

$$BEC = 0.02261$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	8.33	0.0000	P	0.3
2	☐	10.000	10.104	3917.35	0.0013	P	4.6
3	☐	250.000	247.544	101271.96	0.0327	P	9.7
4	☐	625.000	619.104	248799.91	0.0817	P	2.1
5	☐	1250.000	1242.255	507637.90	0.1640	P	1.8
6	☐	2500.000	2506.961	1035577.78	0.3309	P	2.7
7	☐	5000.000	4999.315	2082273.92	0.6598	A	0.3
8	☐			775.05	0.0002	P	9.5

$$y = 1.3198\text{E-}004 * x + 2.7766\text{E-}006$$

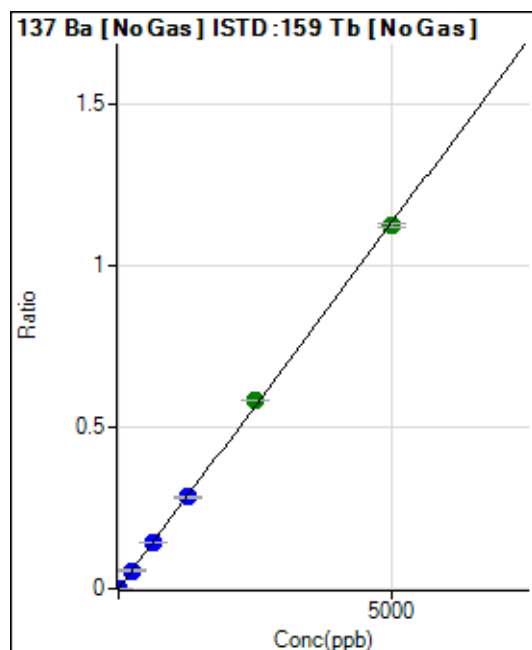
$$R = 1.0000$$

$$DL = 0.0001806$$

$$BEC = 0.02104$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	19.44	0.0000	P	49.5
2	☐	10.000	10.264	6821.41	0.0023	P	5.6
3	☐	250.000	249.482	174979.41	0.0564	P	9.2
4	☐	625.000	624.410	430041.52	0.1412	P	0.8
5	☐	1250.000	1249.474	874984.10	0.2826	P	1.7
6	☐	2500.000	2580.166	1826397.87	0.5836	A	0.6
7	☐	5000.000	4960.148	3540451.81	1.1220	A	0.9
8	☐			1447.34	0.0004	P	6.8

$$y = 2.2619\text{E-}004 * x + 6.4796\text{E-}006$$

$$R = 0.9998$$

$$DL = 0.04251$$

$$BEC = 0.02865$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

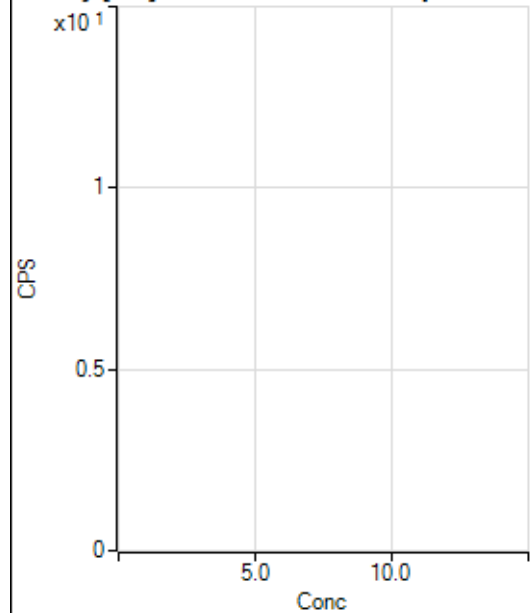
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	173.
2	☐			0.00		P	
3	☐			6.67		P	100.
4	☐			13.33		P	132.
5	☐			11.11		P	69.3
6	☐			48.89		P	28.4
7	☐			42.22		P	50.8
8	☐			11.11		P	69.3

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	☐			2.22		P	86.6
4	☐			0.00		P	
5	☐			1.11		P	173.
6	☐			3.33		P	100.
7	☐			5.56		P	34.7
8	☐			2.22		P	173.

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.78		P	173.
2	☐			5.55		P	86.6
3	☐			13.89		P	69.3
4	☐			25.00		P	88.2
5	☐			30.56		P	110.
6	☐			61.11		P	28.4
7	☐			122.23		P	33.6
8	☐			458.35		P	15.5

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			1.11		P	173.
3	☐			3.33		P	0.0
4	☐			6.67		P	50.0
5	☐			7.78		P	107.
6	☐			24.45		P	55.1
7	☐			61.11		P	20.6
8	☐			267.78		P	15.4

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

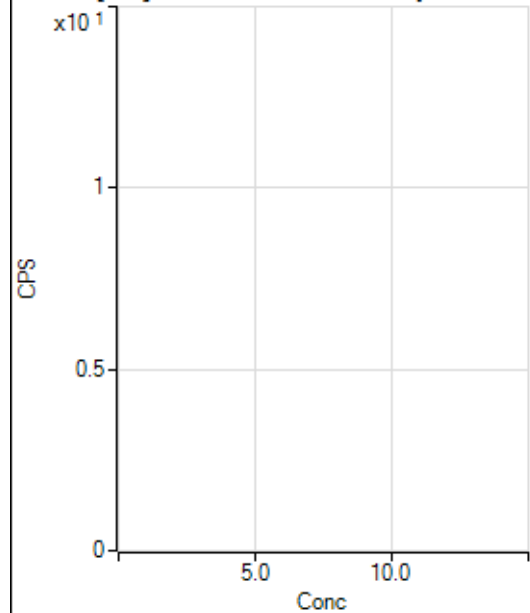
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			36.11		P	70.5
2	☐			27.78		P	62.5
3	☐			41.67		P	34.6
4	☐			27.78		P	17.3
5	☐			61.11		P	34.3
6	☐			52.78		P	48.2
7	☐			127.78		P	13.6
8	☐			511.13		P	13.9

160 Gd [He] No available calibration points

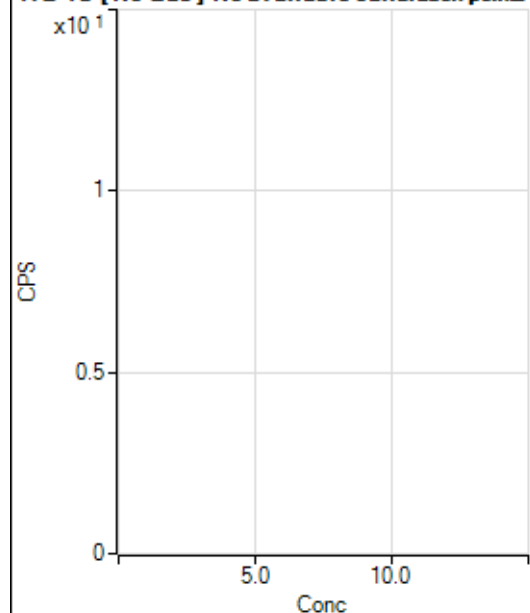
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.56		P	91.6
2	☐			4.45		P	86.6
3	☐			11.11		P	69.3
4	☐			12.22		P	31.5
5	☐			23.33		P	51.5
6	☐			31.11		P	34.4
7	☐			68.89		P	23.9
8	☐			254.45		P	22.9

164 Er [No Gas] No available calibration points

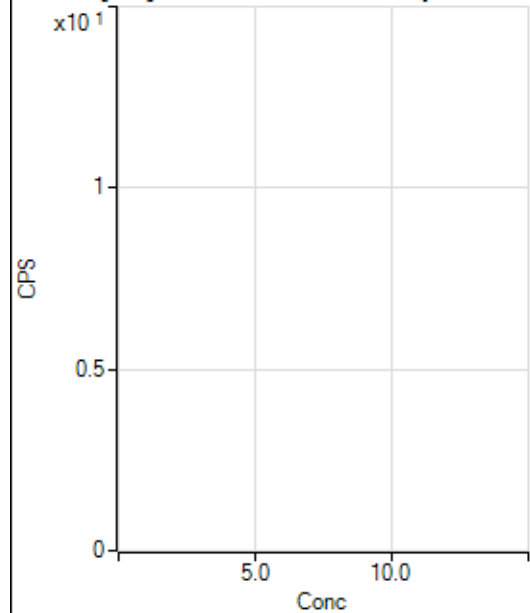
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			19.44		P	65.5
2	☐			22.22		P	43.3
3	☐			13.89		P	124.
4	☐			30.56		P	95.8
5	☐			47.22		P	66.8
6	☐			38.89		P	12.4
7	☐			27.78		P	62.5
8	☐			86.11		P	31.1

164 Er [He] No available calibration points

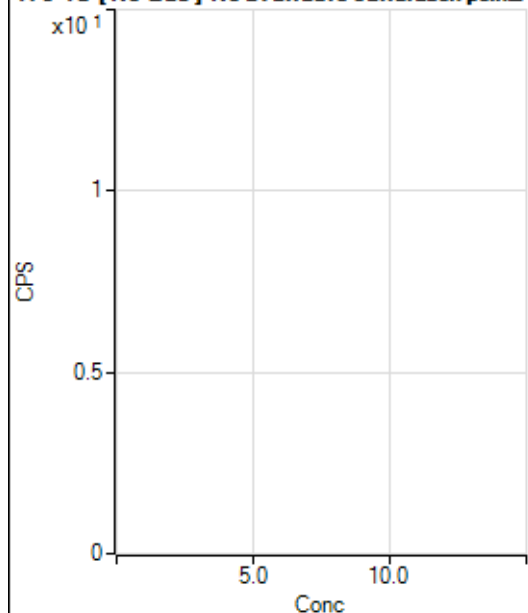
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			7.78		P	99.0
2	☐			5.55		P	124.
3	☐			5.56		P	91.6
4	☐			10.00		P	33.3
5	☐			11.11		P	45.8
6	☐			16.67		P	69.3
7	☐			18.89		P	40.7
8	☐			33.33		P	60.8

172 Yb [No Gas] No available calibration points

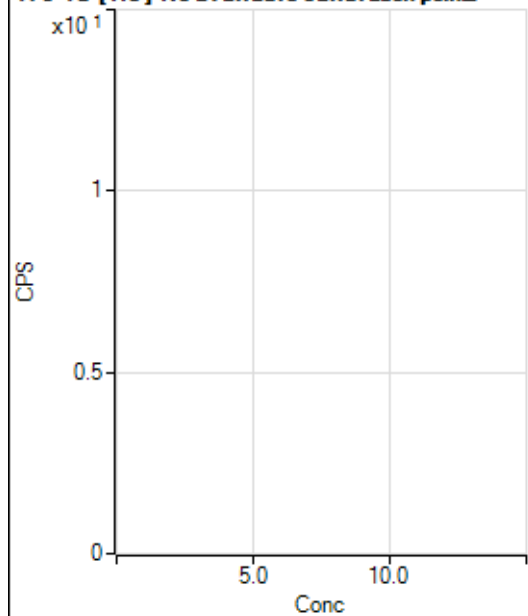
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			8.33		P	100.
3	☐			8.33		P	100.
4	☐			13.89		P	124.
5	☐			13.89		P	91.6
6	☐			8.33		P	100.
7	☐			19.44		P	99.0
8	☐			16.67		P	50.0

172 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			7.41		P	43.2
2	☐			3.70		P	173.
3	☐			5.56		P	NaN
4	☐			3.71		P	86.6
5	☐			7.41		P	43.2
6	☐			1.85		P	173.
7	☐			3.71		P	86.6
8	☐			16.67		P	33.3

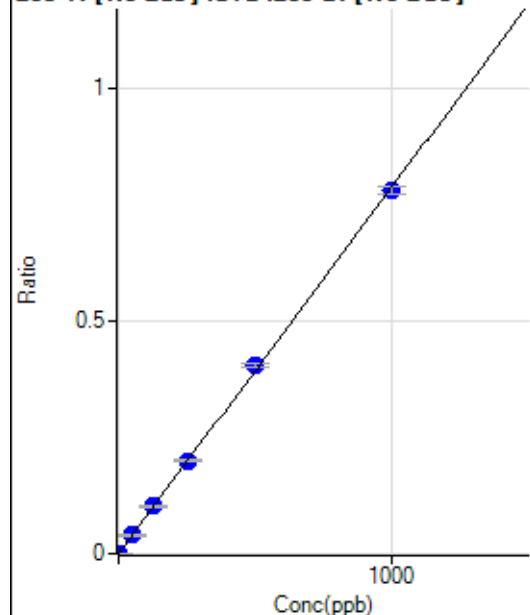
176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			350.01		P	9.5
2	☐			288.90		P	13.6
3	☐			330.57		P	30.4
4	☐			291.68		P	12.5
5	☐			366.68		P	6.8
6	☐			313.90		P	17.3
7	☐			355.57		P	26.3
8	☐			302.79		P	19.3

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			244.45		P	20.2
2	☐			187.04		P	7.5
3	☐			131.48		P	4.9
4	☐			159.26		P	24.7
5	☐			183.34		P	22.9
6	☐			190.75		P	22.6
7	☐			161.11		P	17.9
8	☐			150.00		P	16.1

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	100.00	0.0001	P	14.3
2	☐	1.000	0.995	1480.68	0.0008	P	14.7
3	☐	50.000	50.565	74559.04	0.0399	P	8.4
4	☐	125.000	128.768	183263.96	0.1016	P	3.2
5	☐	250.000	254.242	371527.55	0.2005	P	2.0
6	☐	500.000	515.337	759983.32	0.4063	P	2.4
7	☐	1000.000	990.772	1451711.05	0.7811	P	2.1
8	☐			641.70	0.0003	P	5.8

$$y = 7.8828\text{E-}004 * x + 5.6045\text{E-}005$$

$$R = 0.9998$$

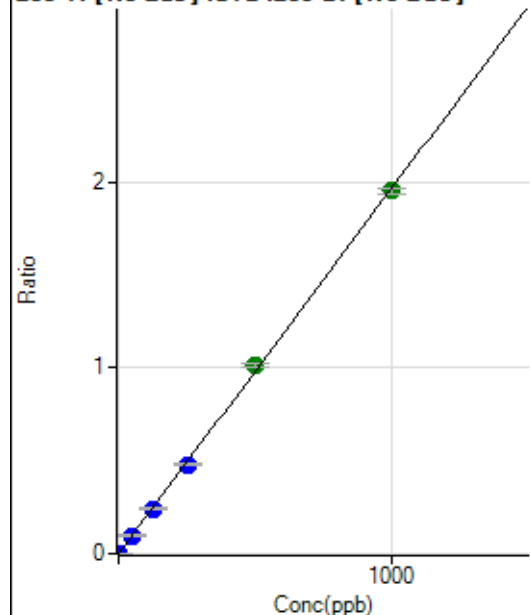
$$DL = 0.03051$$

$$BEC = 0.0711$$

Weight: <None>

Min Conc: 0

205 TI [No Gas] ISTD :209 Bi [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	197.23	0.0001	P	33.4
2	☐	1.000	0.982	3600.59	0.0020	P	2.8
3	☐	50.000	48.780	179052.37	0.0960	P	9.9
4	☐	125.000	122.523	434678.58	0.2409	P	3.0
5	☐	250.000	244.693	891365.41	0.4810	P	2.0
6	☐	500.000	515.875	1896408.14	1.0139	A	1.8
7	☐	1000.000	993.760	3630130.72	1.9530	A	1.6
8	☐			1455.69	0.0008	P	6.0

$$y = 0.0020 * x + 1.1038\text{E-}004$$

$$R = 0.9998$$

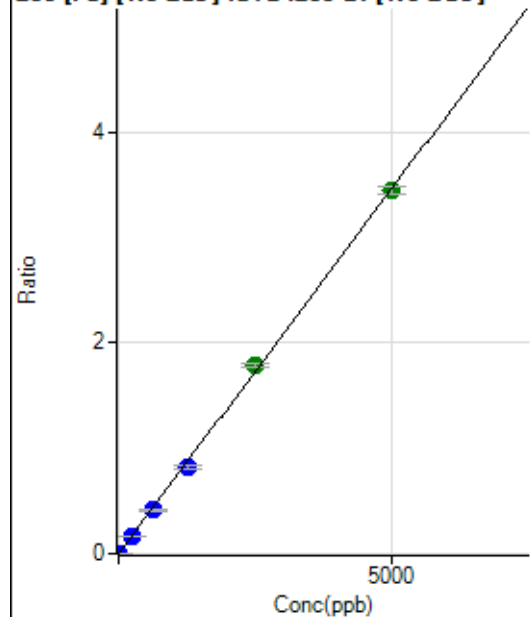
$$DL = 0.05629$$

$$BEC = 0.05617$$

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	307.41	0.0002	P	13.8
2	☐	1.000	0.926	1433.44	0.0008	P	2.1
3	☐	250.000	238.478	308115.50	0.1651	P	9.8
4	☐	625.000	596.334	744749.76	0.4127	P	2.3
5	☐	1250.000	1186.199	1520831.44	0.8207	P	3.0
6	☐	2500.000	2590.256	3352044.43	1.7919	A	2.0
7	☐	5000.000	4974.981	6397054.77	3.4415	A	2.1
8	☐			41293.65	0.0225	P	0.7

$$y = 6.9173\text{E-}004 * x + 1.7235\text{E-}004$$

$$R = 0.9997$$

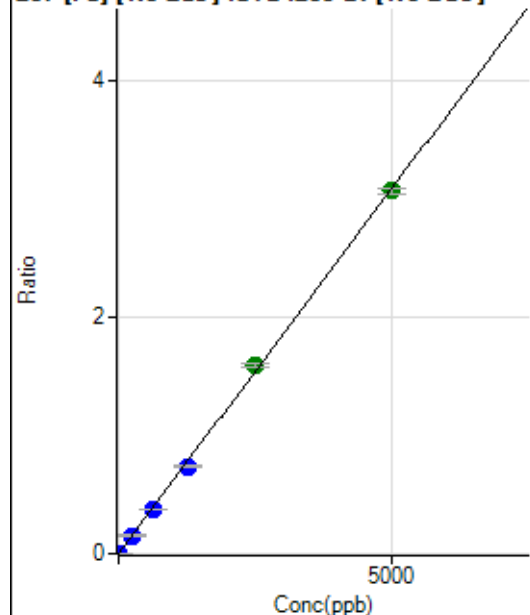
$$DL = 0.1031$$

$$BEC = 0.2492$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	283.34	0.0002	P	17.6
2	☐	1.000	0.926	1285.28	0.0007	P	5.1
3	☐	250.000	239.536	275537.01	0.1476	P	9.5
4	☐	625.000	602.301	669553.44	0.3710	P	2.2
5	☐	1250.000	1198.968	1368292.41	0.7384	P	3.1
6	☐	2500.000	2583.546	2976050.27	1.5909	A	2.1
7	☐	5000.000	4974.345	5693079.35	3.0629	A	1.9
8	☐			38102.47	0.0207	P	0.9

$$y = 6.1572\text{E-}004 * x + 1.5874\text{E-}004$$

$$R = 0.9997$$

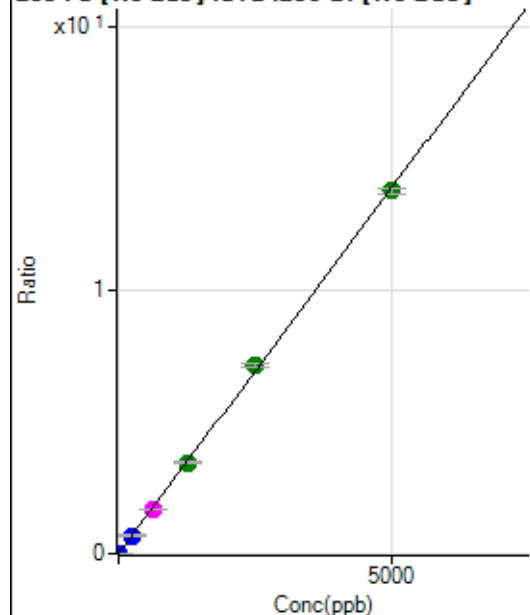
$$DL = 0.1363$$

$$BEC = 0.2578$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1153.75	0.0006	P	2.1
2	☐	1.000	0.973	5900.65	0.0033	P	3.5
3	☐	250.000	240.397	1245746.29	0.6675	P	9.5
4	☐	625.000	607.230	3041547.98	1.6852	M	1.4
5	☐	1250.000	1237.735	6364548.93	3.4342	A	2.1
6	☐	2500.000	2585.940	13420835.37	7.1743	A	2.1
7	☐	5000.000	4962.798	25591541.37	13.7679	A	1.8
8	☐			169110.06	0.0920	P	0.8

$$y = 0.0028 * x + 6.4660E-004$$

$$R = 0.9998$$

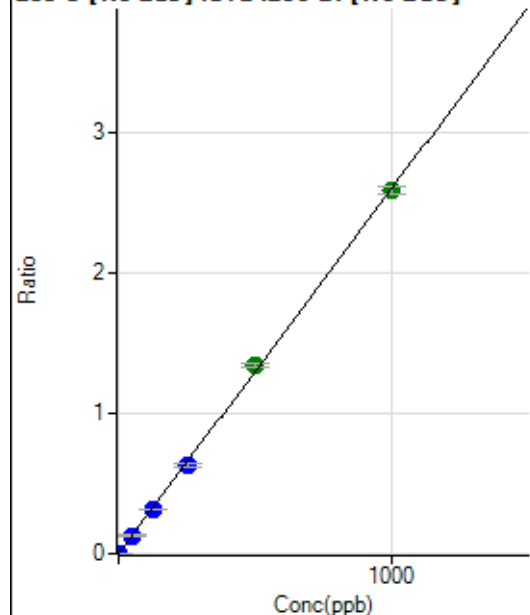
$$DL = 0.01491$$

$$BEC = 0.2331$$

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	13.89	0.0000	P	34.8
2	☐	1.000	0.961	4414.78	0.0025	P	3.1
3	☐	50.000	48.080	233015.06	0.1248	P	9.2
4	☐	125.000	121.599	569721.40	0.3157	P	3.0
5	☐	250.000	243.124	1169786.35	0.6312	P	2.9
6	☐	500.000	514.985	2501286.60	1.3371	A	2.0
7	☐	1000.000	994.748	4799744.81	2.5827	A	2.2
8	☐			586.14	0.0003	P	20.2

$$y = 0.0026 * x + 7.7881E-006$$

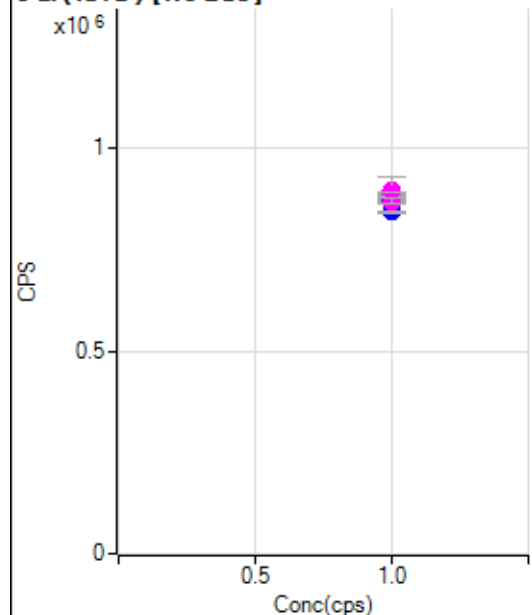
$$R = 0.9998$$

$$DL = 0.00313$$

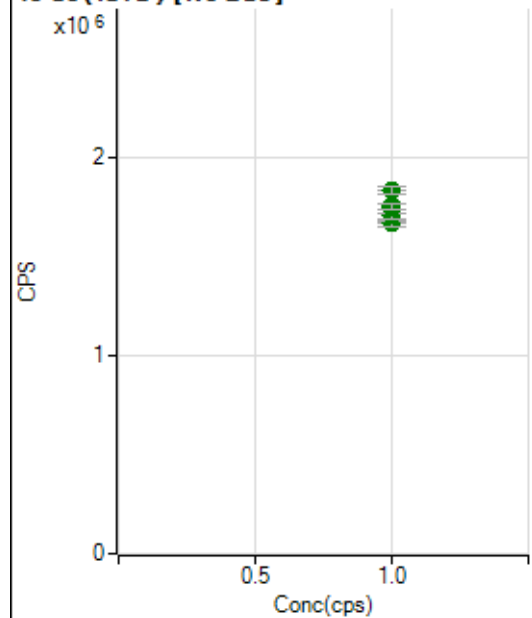
$$BEC = 0.003$$

Weight: <None>

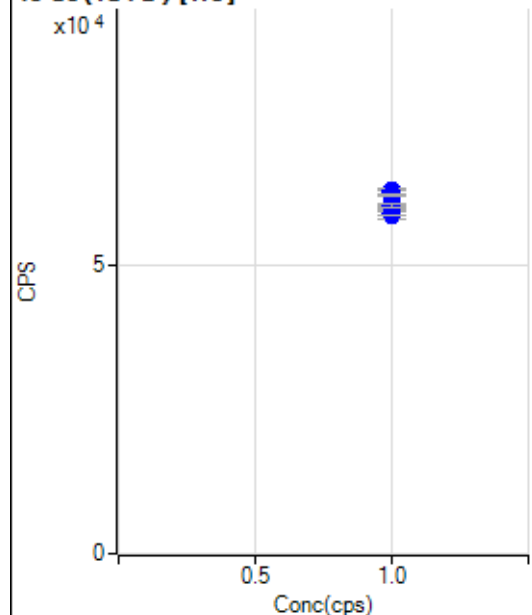
Min Conc: 0

6 Li (ISTD) [No Gas]

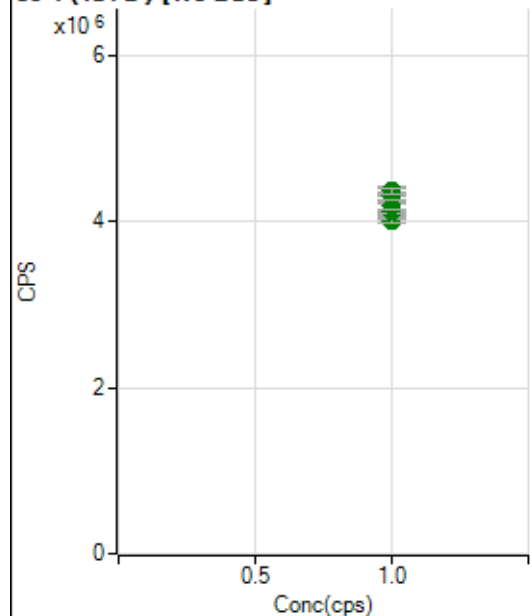
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		888449.77		M	0.7
2	☐	1.000		868252.80		P	0.9
3	☐	1.000		894897.78		M	7.5
4	☐	1.000		873957.57		P	1.0
5	☐	1.000		886818.58		M	1.3
6	☐	1.000		887739.29		M	1.4
7	☐	1.000		842380.14		P	0.7
8	☐	1.000		870301.03		M	1.4

45 Sc (ISTD) [No Gas]

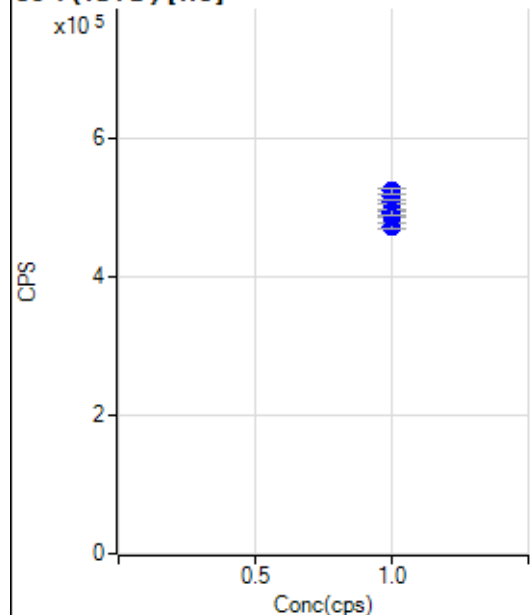
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1675286.43		A	0.3
2	☐	1.000		1672326.82		A	2.3
3	☐	1.000		1754192.00		A	8.5
4	☐	1.000		1703489.54		A	2.0
5	☐	1.000		1747284.07		A	1.7
6	☐	1.000		1751407.42		A	2.0
7	☐	1.000		1751912.96		A	1.9
8	☐	1.000		1829335.69		A	2.0

45 Sc (ISTD) [He]

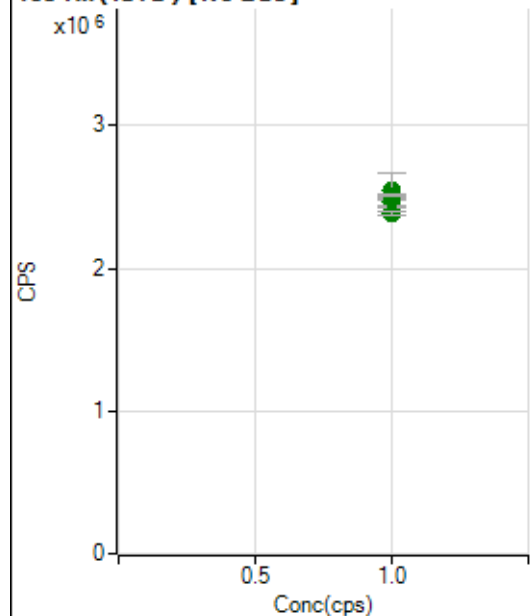
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		58929.24		P	3.1
2	☐	1.000		59565.06		P	0.5
3	☐	1.000		60724.55		P	0.7
4	☐	1.000		59300.76		P	1.5
5	☐	1.000		60464.30		P	1.3
6	☐	1.000		62808.92		P	1.2
7	☐	1.000		63066.44		P	1.4
8	☐	1.000		62463.19		P	0.4

89 Y (ISTD) [No Gas]

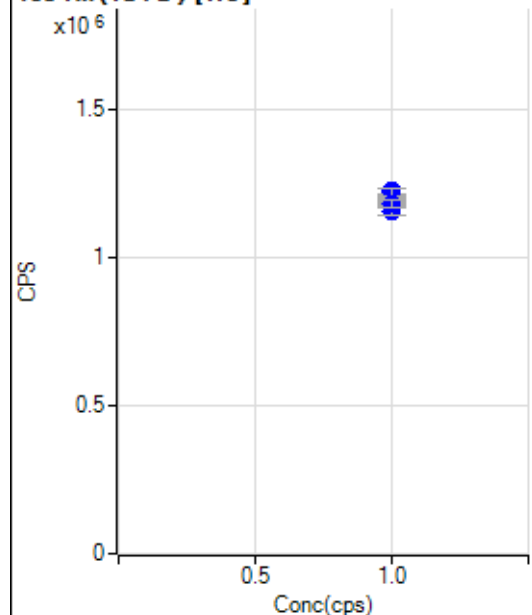
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4096699.49		A	1.4
2	☐	1.000		4011492.99		A	2.0
3	☐	1.000		4224964.28		A	9.4
4	☐	1.000		4107762.85		A	1.1
5	☐	1.000		4181752.58		A	1.6
6	☐	1.000		4259075.42		A	1.6
7	☐	1.000		4301569.00		A	2.3
8	☐	1.000		4364308.89		A	1.9

89 Y(ISTD) [He]

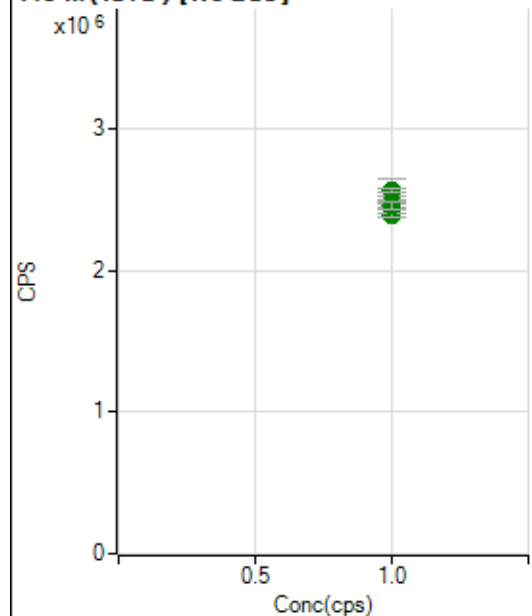
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		472903.31		P	2.1
2	☐	1.000		485286.44		P	0.4
3	☐	1.000		490086.12		P	2.0
4	☐	1.000		492170.88		P	1.5
5	☐	1.000		493081.98		P	1.5
6	☐	1.000		507534.70		P	1.1
7	☐	1.000		514857.67		P	1.2
8	☐	1.000		523628.19		P	1.5

103 Rh(ISTD) [No Gas]

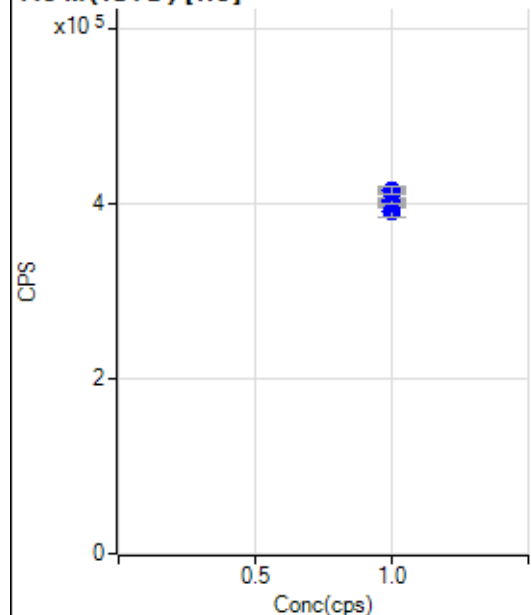
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2462658.17		A	1.9
2	☐	1.000		2385411.36		A	1.5
3	☐	1.000		2542651.45		A	9.4
4	☐	1.000		2482483.91		A	3.4
5	☐	1.000		2488719.76		A	0.8
6	☐	1.000		2502932.00		A	1.8
7	☐	1.000		2501248.50		A	0.8
8	☐	1.000		2513115.38		A	1.0

103 Rh (ISTD) [He]

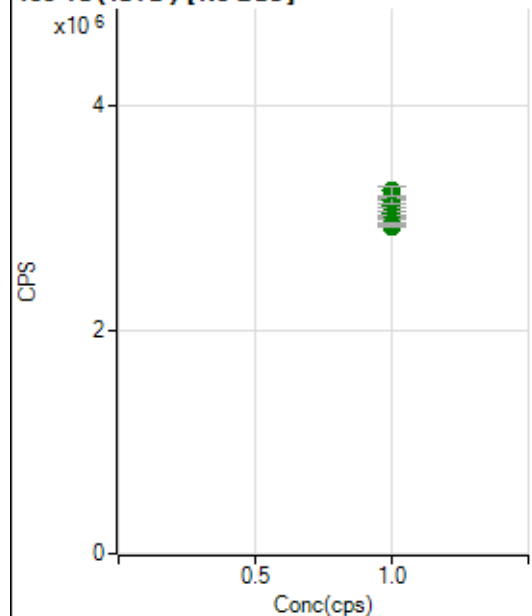
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1156650.35		P	2.7
2	☐	1.000		1189756.84		P	0.5
3	☐	1.000		1191204.53		P	1.3
4	☐	1.000		1183499.26		P	0.8
5	☐	1.000		1190078.65		P	1.4
6	☐	1.000		1223242.27		P	1.5
7	☐	1.000		1219444.34		P	2.1
8	☐	1.000		1181543.11		P	2.1

115 In (ISTD) [No Gas]

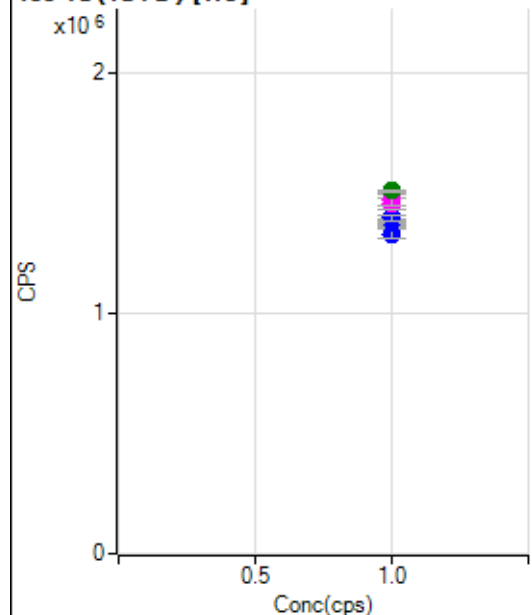
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2429107.92		A	1.4
2	☐	1.000		2392635.59		A	1.5
3	☐	1.000		2529562.77		A	9.7
4	☐	1.000		2459752.36		A	1.4
5	☐	1.000		2509593.84		A	1.8
6	☐	1.000		2489658.39		A	0.9
7	☐	1.000		2463142.87		A	2.0
8	☐	1.000		2566600.03		A	1.1

115 In (ISTD) [He]

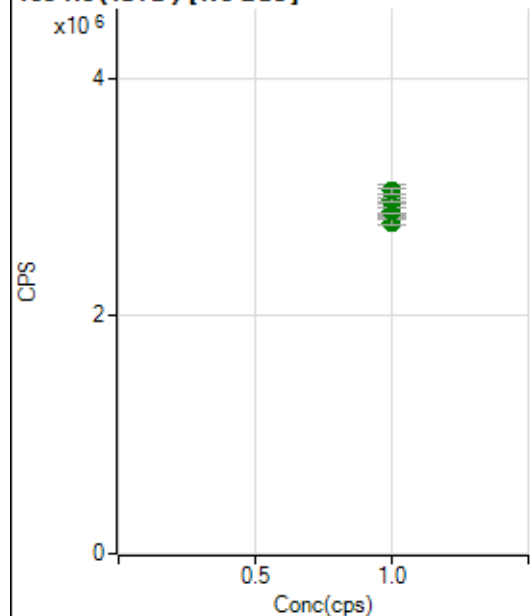
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		390314.25		P	2.7
2	☐	1.000		400719.80		P	0.3
3	☐	1.000		401511.36		P	1.6
4	☐	1.000		401146.26		P	1.3
5	☐	1.000		403583.57		P	1.6
6	☐	1.000		413374.65		P	0.9
7	☐	1.000		414627.26		P	1.0
8	☐	1.000		414508.20		P	2.1

159 Tb (ISTD) [No Gas]

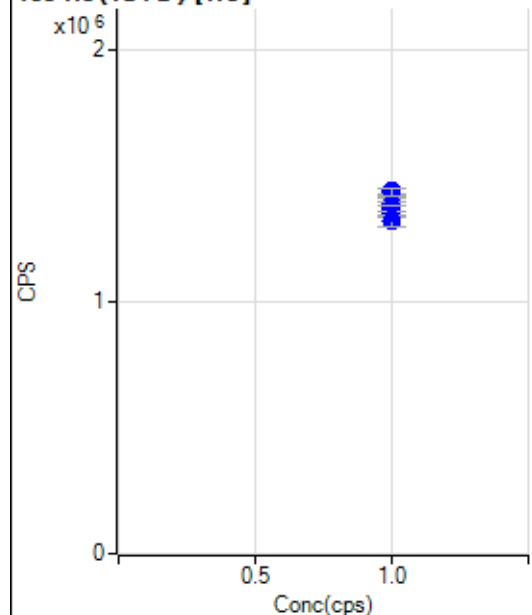
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3000089.19		A	0.3
2	☐	1.000		2931222.01		A	1.0
3	☐	1.000		3119709.05		A	10.1
4	☐	1.000		3044930.72		A	1.4
5	☐	1.000		3096547.84		A	2.1
6	☐	1.000		3129162.11		A	2.2
7	☐	1.000		3155822.83		A	2.0
8	☐	1.000		3244037.35		A	2.7

159 Tb (ISTD) [He]

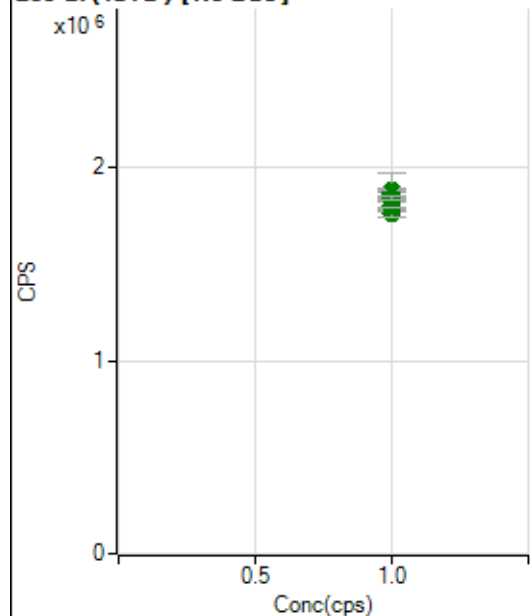
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1331800.20		P	3.1
2	☐	1.000		1377882.52		P	0.8
3	☐	1.000		1375466.12		P	2.1
4	☐	1.000		1386720.93		P	1.2
5	☐	1.000		1399171.80		P	1.8
6	☐	1.000		1457680.13		M	2.8
7	☐	1.000		1475401.26		M	3.6
8	☐	1.000		1511758.52		A	0.9

165 Ho (ISTD) [No Gas]

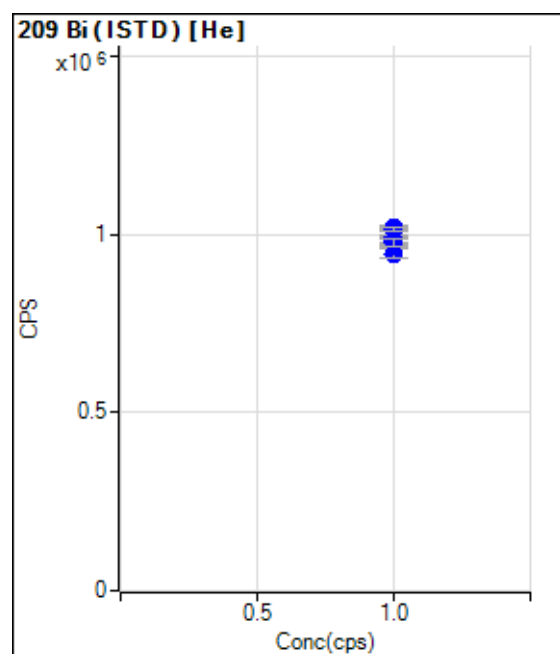
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2859677.04		A	0.5
2	☐	1.000		2787530.75		A	2.1
3	☐	1.000		2969807.71		A	9.4
4	☐	1.000		2885868.16		A	1.4
5	☐	1.000		2935278.06		A	1.8
6	☐	1.000		2968619.90		A	1.6
7	☐	1.000		2977633.66		A	1.5
8	☐	1.000		3050750.63		A	1.8

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1317553.20		P	2.9
2	☐	1.000		1347943.46		P	1.3
3	☐	1.000		1367033.43		P	1.7
4	☐	1.000		1369417.93		P	1.4
5	☐	1.000		1387513.96		P	1.5
6	☐	1.000		1417345.19		P	0.8
7	☐	1.000		1438420.65		P	1.3
8	☐	1.000		1432878.90		P	2.3

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1784169.82		A	0.9
2	☐	1.000		1764184.59		A	2.2
3	☐	1.000		1877658.06		A	9.7
4	☐	1.000		1805222.96		A	2.0
5	☐	1.000		1853642.26		A	1.6
6	☐	1.000		1870470.18		A	2.5
7	☐	1.000		1858907.65		A	1.9
8	☐	1.000		1839088.22		A	1.3



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		946500.54		P	3.2
2	☐	1.000		967488.91		P	1.1
3	☐	1.000		980437.61		P	1.5
4	☐	1.000		984350.88		P	1.3
5	☐	1.000		993273.60		P	1.3
6	☐	1.000		1017599.20		P	1.1
7	☐	1.000		1014825.71		P	1.2
8	☐	1.000		975475.84		P	2.0

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8050621 MS.b
Acq. Date-Time 2021-05-06 11:36:35
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		3034	30344.47			2.986	5.000
24		23172	231722.10			2.852	5.000
25		3181	31808.25			2.428	5.000
26		3669	36694.00			3.077	5.000
59		17146	171460.64			2.833	5.000
113		2487	24872.22			2.994	5.000
115		14937	149373.30			3.233	5.000
206		4610	46103.60			3.655	5.000
207		4033	40330.88			3.242	5.000
208		9757	97565.24			3.249	5.000
220		0	4.50			26.058	

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

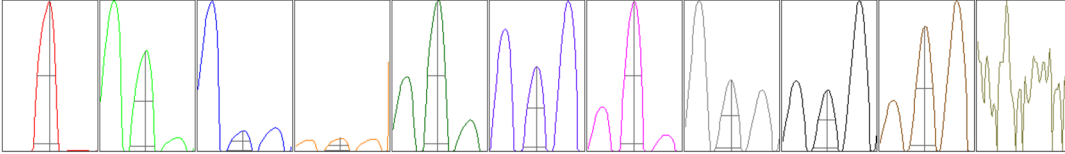
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	3080	3079	3101	2878	3033
24	23550	23600	23470	22019	23223
25	3250	3222	3200	3050	3183
26	3776	3699	3712	3478	3683
59	17360	17333	17545	16308	17185
113	2511	2507	2556	2360	2503
115	15242	15048	15291	14102	15004
206	4601	4646	4802	4340	4663
207	4053	4031	4193	3829	4059
208	9799	9865	10052	9216	9851

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	5562.70	9.00	8.90 - 9.10	
24	41257.85	23.95	23.90 - 24.10	
25	5506.65	24.95	24.90 - 25.10	
26	6360.87	25.95	25.90 - 26.10	
59	31705.31	58.95	58.90 - 59.10	
113	4878.90	113.00	112.90 - 113.10	
115	29120.76	115.00	114.90 - 115.10	
206	8708.25	206.00	205.90 - 206.10	
207	7513.84	206.95	206.90 - 207.10	
208	18588.71	207.95	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.59	0.782	0.900	
24	0.61	0.786	0.900	
25	0.61	0.786	0.900	
26	0.62	0.788	0.900	
59	0.57	0.779	0.900	
113	0.53	0.733	0.900	
115	0.53	0.733	0.900	
206	0.54	0.795	0.900	
207	0.54	0.795	0.900	
208	0.53	0.817	0.900	
220				

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode HMI Nebulizer Gas 0.48 L/min Dilution Gas 0.44 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	11.2 V	Deflect	15.8 V
Extract 2	-250.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-115 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	122	Axis Gain	0.9991	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	-0.02		

Hardware Settings

Torch

Torch H	0.8 mm	Torch V	-0.8 mm
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EM

Discriminator	3.9 mV	Analog HV	2193 V	Pulse HV	1415 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		4303	43033.67			1.852	
89		6960	69601.57			1.917	
205		5806	58064.95			1.674	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	4353	4323	4391	4189	4261
89	7066	7016	7084	6798	6837
205	5896	5862	5871	5683	5721

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	HMI	Nebulizer Gas	0.48 L/min	Dilution Gas	0.44 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	11.2 V	Deflect	4.8 V
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US EPA Tune Check Report

Extract 2	-250.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-115 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	122	Axis Gain	0.9991	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.02		
Hardware Settings					
Torch					
Torch H	0.8 mm	Torch V	-0.8 mm		
EM					
Discriminator	3.9 mV	Analog HV	2193 V	Pulse HV	1415 V