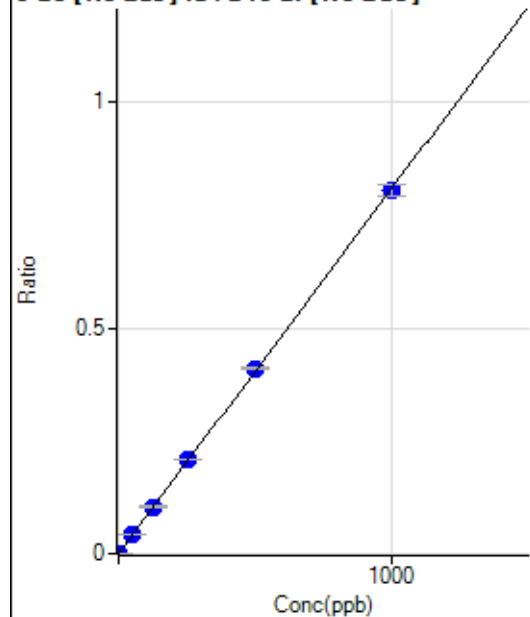


Batch Folder: D:\Agilent\ICPMH\1\DATA\P7071824-MS1.b\
Analysis File: P7071824-MS1.batch.bin
DA Date-Time: 2024-07-18 16:27:51
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2024-07-18 13:28:28
2	005CALS.d	S02	2024-07-18 13:31:48
3	006CALS.d	S03	2024-07-18 13:35:09
4	007CALS.d	S04	2024-07-18 13:38:26
5	008CALS.d	S05	2024-07-18 13:41:36
6	009CALS.d	S06	2024-07-18 13:44:37
7	010CALS.d	S07	2024-07-18 13:47:35
8	011CALS.d	S08	2024-07-18 13:50:28

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	91.11	0.0001	P	11.4
2	☐	1.000	0.953	583.35	0.0009	P	1.8
3	☐	50.000	51.604	26456.99	0.0418	P	1.1
4	☐	125.000	128.781	65182.53	0.1041	P	1.7
5	☐	250.000	257.474	127406.19	0.2080	P	0.9
6	☐	500.000	506.306	245385.33	0.4090	P	0.9
7	☐	1000.000	994.426	492200.12	0.8031	P	3.0
8	☐			748.91	0.0012	P	11.1

$$y = 8.0745E-004 * x + 1.4214E-004$$

$$R = 0.9999$$

$$DL = 0.06008$$

$$BEC = 0.176$$

Weight: <None>

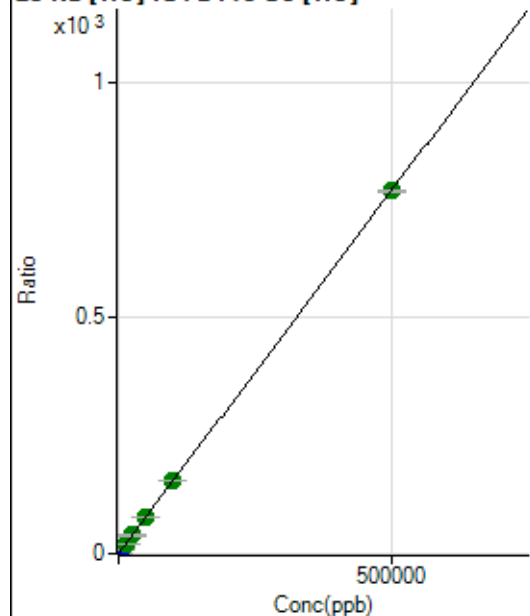
Min Conc: 0

12 C [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	7345.14	0.0608	P	1.0
2	☐	500.000	494.343	103912.97	0.8218	P	1.6
3	☐	5000.000	5385.590	996951.45	8.3518	P	1.2
4	☐	12500.000	12837.486	2356509.62	19.8237	A	1.1
5	☐	25000.000	25184.854	4541354.79	38.8321	A	0.6
6	☐	50000.000	51026.975	8896490.84	78.6153	A	0.7
7	☐	100000.00	101019.67	17567129.18	155.5775	A	1.4
8	☐	500000.00	499671.83	87169250.92	769.2904	A	0.4

$$y = 0.0015 * x + 0.0608$$

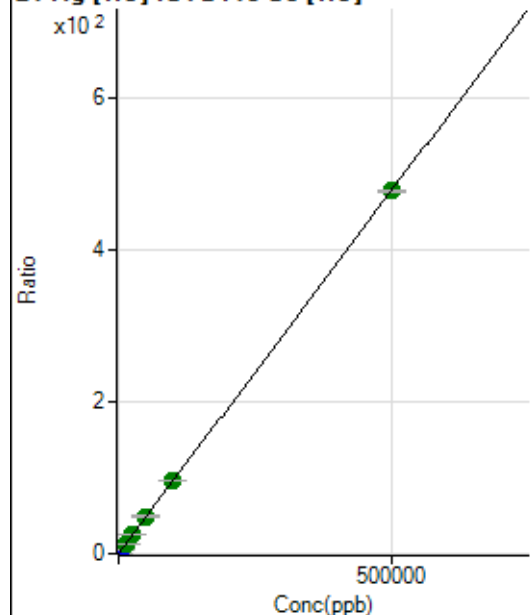
$$R = 1.0000$$

$$DL = 1.195$$

$$BEC = 39.51$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1343.41	0.0111	P	0.6
2	☐	500.000	508.373	62911.17	0.4976	P	2.1
3	☐	5000.000	5486.056	627996.19	5.2609	P	0.8
4	☐	12500.000	13106.284	1492204.11	12.5528	A	0.3
5	☐	25000.000	25727.595	2880548.98	24.6304	A	0.8
6	☐	50000.000	51534.356	5581887.21	49.3255	A	0.8
7	☐	100000.00	100821.29	10895199.14	96.4892	A	1.5
8	☐	500000.00	499625.90	54175211.97	478.1142	A	0.8

$$y = 9.5692\text{E-}004 * x + 0.0111$$

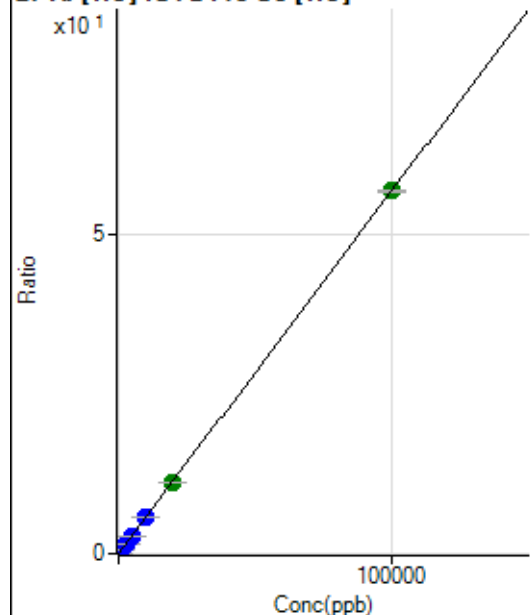
$$R = 1.0000$$

$$DL = 0.2071$$

$$BEC = 11.62$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	82.22	0.0007	P	13.0
2	☐	20.000	19.301	1471.20	0.0116	P	1.0
3	☐	1000.000	1045.077	70864.58	0.5937	P	1.4
4	☐	2500.000	2520.235	170071.18	1.4307	P	0.1
5	☐	5000.000	4939.937	327880.50	2.8036	P	0.5
6	☐	10000.000	9964.053	639878.07	5.6544	P	0.4
7	☐	20000.000	19595.214	1255526.61	11.1191	A	1.4
8	☐	100000.00	100086.59	6434718.31	56.7905	A	0.6

$$y = 5.6741\text{E-}004 * x + 6.8112\text{E-}004$$

$$R = 1.0000$$

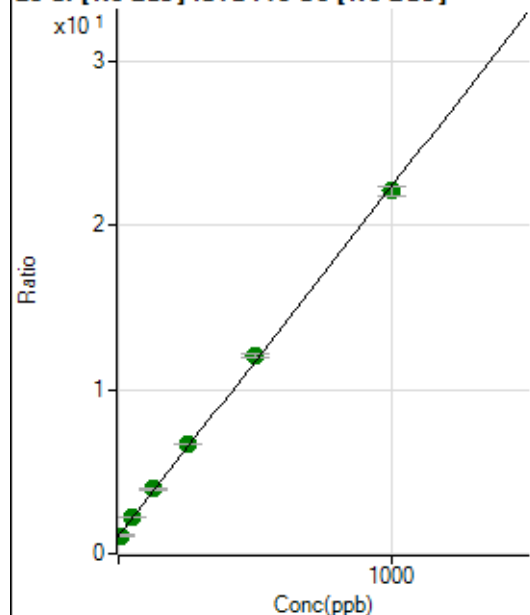
$$DL = 0.4664$$

$$BEC = 1.2$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1674282.89	1.0866	A	2.9
2	☐	10.000	0.277	1703159.19	1.0925	A	5.2
3	☐	50.000	54.041	3404654.98	2.2368	A	0.9
4	☐	125.000	134.381	5868115.33	3.9468	A	1.4
5	☐	250.000	264.751	9901263.05	6.7217	A	0.3
6	☐	500.000	515.413	17340492.24	12.0570	A	1.5
7	☐	1000.000	987.328	32486146.74	22.1015	A	2.6
8	☐			1663001.75	1.1423	A	3.4

$$y = 0.0213 * x + 1.0866$$

$$R = 0.9995$$

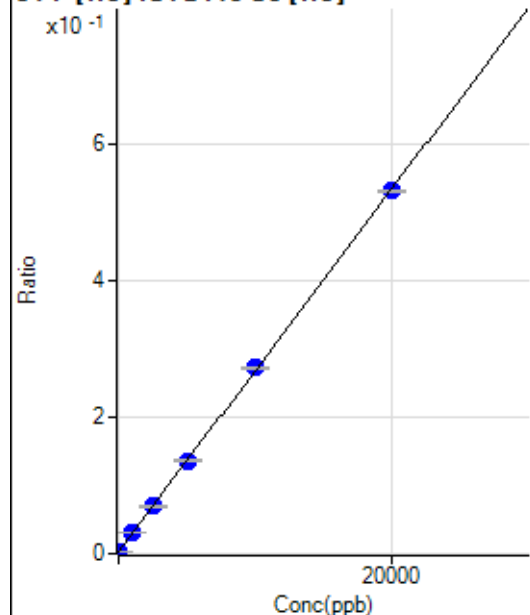
$$DL = 4.381$$

$$BEC = 51.05$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-5.812	332.23	0.0028	P	8.6
2	☐	0.000	5.812	386.67	0.0031	P	5.5
3	☐	1000.000	1045.695	3656.03	0.0306	P	4.1
4	☐	2500.000	2515.201	8273.41	0.0696	P	1.9
5	☐	5000.000	5015.675	15892.78	0.1359	P	1.5
6	☐	10000.000	10143.271	30764.22	0.2719	P	0.5
7	☐	20000.000	19920.261	59975.72	0.5311	P	0.4
8	☐			363.34	0.0032	P	8.3

$$y = 2.6515E-005 * x + 0.0029$$

$$R = 1.0000$$

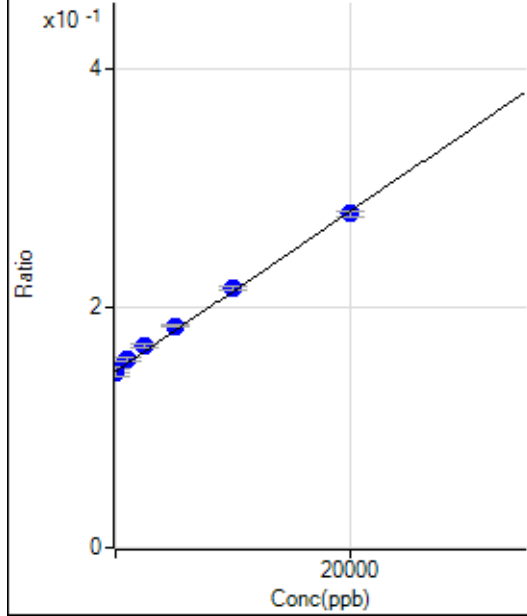
$$DL = 22.98$$

$$BEC = 109.6$$

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	111.732	228113.19	0.1480	P	2.1
2	☐	0.000	-111.732	228441.77	0.1465	P	5.0
3	☐	1000.000	1535.854	239817.46	0.1576	P	2.0
4	☐	2500.000	3131.028	250158.38	0.1683	P	1.9
5	☐	5000.000	5609.403	272321.46	0.1849	P	0.8
6	☐	10000.000	10273.444	310860.13	0.2161	P	1.5
7	☐	20000.000	19605.256	409720.99	0.2787	P	1.9
8	☐			217779.23	0.1495	P	0.9

$$y = 6.7034\text{E-}006 * x + 0.1473$$

$$R = 0.9989$$

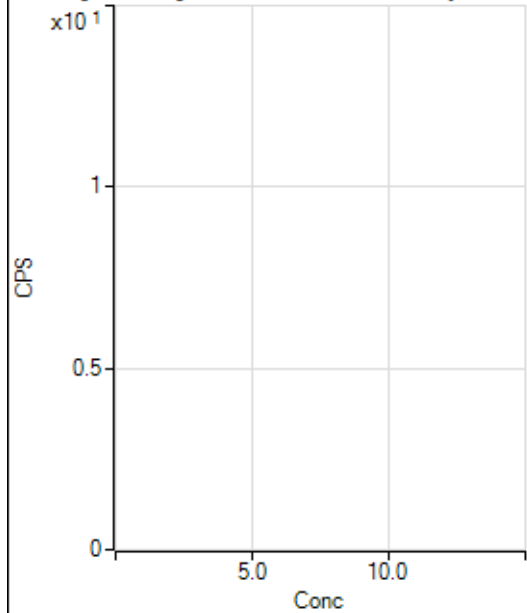
$$DL = 2334$$

$$BEC = 2.197\text{E}+04$$

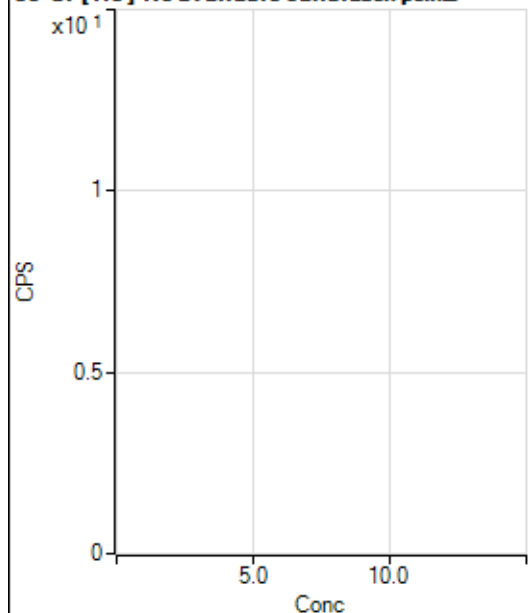
Weight: <None>

Min Conc: 0

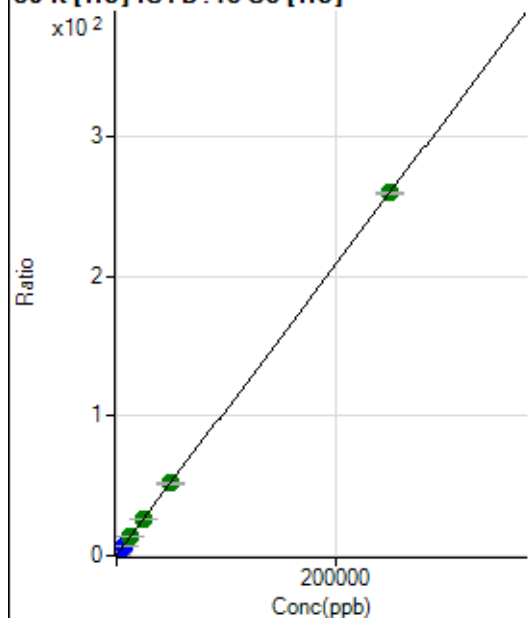
35 Cl [No Gas] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	69601.46	0.5763	P	0.4
2	☐	500.000	478.628	135490.46	1.0716	P	1.9
3	☐	2500.000	2666.554	398206.60	3.3359	P	1.4
4	☐	6250.000	6533.848	872318.99	7.3382	P	0.3
5	☐	12500.000	12327.946	1559440.66	13.3345	A	0.8
6	☐	25000.000	24965.492	2989032.11	26.4131	A	1.1
7	☐	50000.000	49360.532	5833506.79	51.6596	A	1.0
8	☐	250000.00	250131.22	29396930.95	259.4375	A	0.2

$$y = 0.0010 * x + 0.5763$$

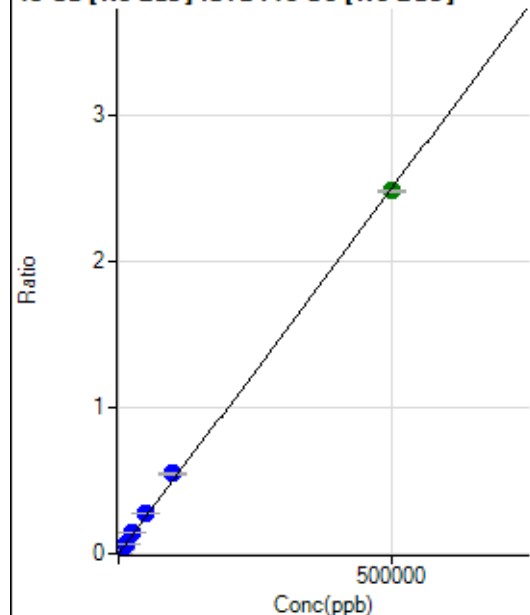
$$R = 1.0000$$

$$DL = 6.613$$

$$BEC = 556.9$$

Weight: <None>

Min Conc: 0

43 Ca [No Gas] ISTD:45 Sc [No Gas]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	208.89	0.0001	P	25.5
2	☐	500.000	528.504	4322.88	0.0028	P	5.2
3	☐	5000.000	5771.410	44042.59	0.0289	P	0.6
4	☐	12500.000	14347.277	106642.10	0.0717	P	1.1
5	☐	25000.000	28438.183	209223.24	0.1420	P	0.6
6	☐	50000.000	55672.827	399756.04	0.2779	P	0.7
7	☐	100000.00	109522.19	803442.24	0.5466	P	2.7
8	☐	500000.00	497302.44	3614569.63	2.4815	A	0.4

$$y = 4.9897\text{E-}006 * x + 1.3587\text{E-}004$$

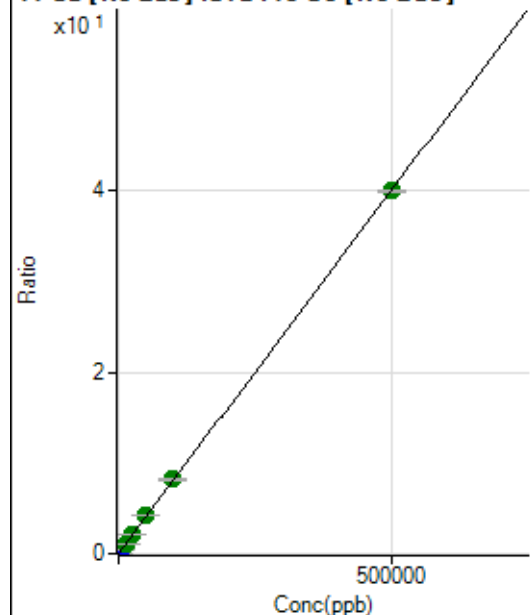
$$R = 0.9998$$

$$DL = 20.83$$

$$BEC = 27.23$$

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	25696.34	0.0167	P	3.0
2	☐	500.000	518.584	90670.88	0.0582	P	5.4
3	☐	5000.000	5559.099	702351.02	0.4614	P	0.3
4	☐	12500.000	13424.740	1621811.25	1.0907	A	0.6
5	☐	25000.000	26468.964	3143748.29	2.1343	A	1.1
6	☐	50000.000	52179.466	6028422.20	4.1912	A	0.6
7	☐	100000.00	102591.18	12087957.74	8.2244	A	2.9
8	☐	500000.00	499161.64	58187764.13	39.9515	A	0.4

$$y = 8.0004\text{E-}005 * x + 0.0167$$

$$R = 1.0000$$

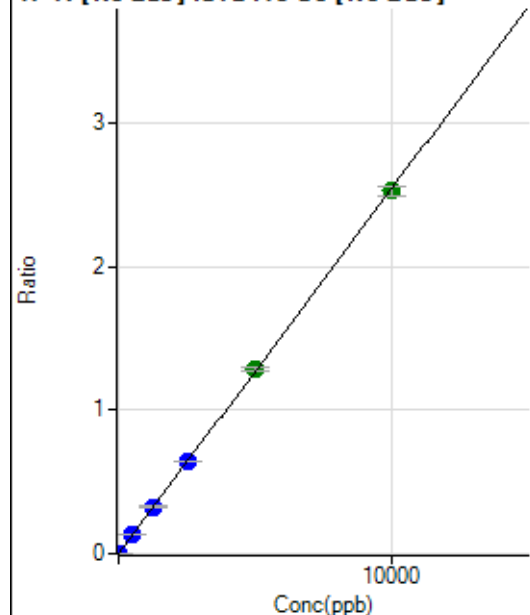
$$DL = 18.91$$

$$BEC = 208.4$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	116.67	0.0001	P	24.5
2	☐	5.000	4.715	1985.70	0.0013	P	5.9
3	☐	500.000	512.502	198335.89	0.1303	P	0.7
4	☐	1250.000	1285.849	485907.49	0.3268	P	1.2
5	☐	2500.000	2532.690	948090.19	0.6436	P	0.5
6	☐	5000.000	5080.879	1856791.93	1.2911	A	2.1
7	☐	10000.000	9946.282	3715175.36	2.5274	A	2.4
8	☐			816.70	0.0006	P	17.8

$$y = 2.5410E-004 * x + 7.5925E-005$$

$$R = 0.9999$$

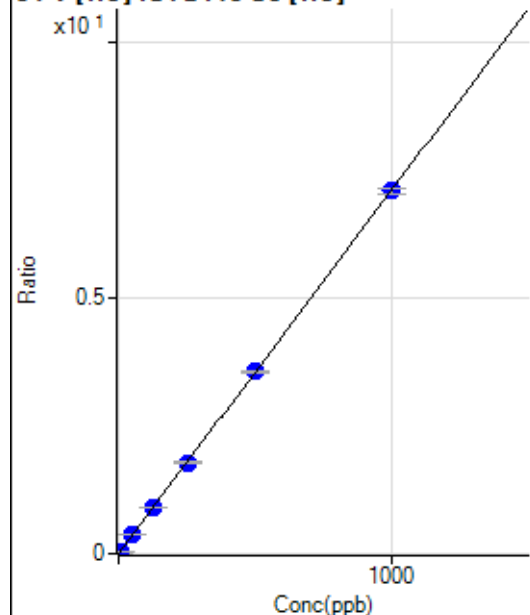
$$DL = 0.2192$$

$$BEC = 0.2988$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	12.22	0.0001	P	83.6
2	☐	5.000	4.956	4467.37	0.0353	P	0.7
3	☐	50.000	51.091	43358.72	0.3632	P	1.1
4	☐	125.000	126.154	106596.10	0.8967	P	0.6
5	☐	250.000	251.336	208919.29	1.7864	P	0.5
6	☐	500.000	501.771	403580.85	3.5663	P	0.8
7	☐	1000.000	998.582	801381.21	7.0973	P	1.6
8	☐			346.67	0.0031	P	13.4

$$y = 0.0071 * x + 1.0151E-004$$

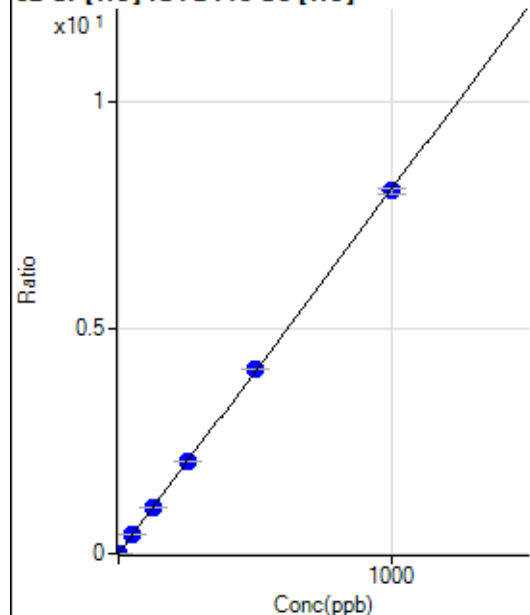
$$R = 1.0000$$

$$DL = 0.03581$$

$$BEC = 0.01428$$

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	222.22	0.0018	P	6.3
2	☐	2.000	1.967	2241.30	0.0177	P	2.2
3	☐	50.000	52.166	50510.85	0.4231	P	1.5
4	☐	125.000	128.698	123775.80	1.0412	P	0.1
5	☐	250.000	254.024	240142.92	2.0534	P	0.4
6	☐	500.000	505.428	462148.42	4.0838	P	0.3
7	☐	1000.000	995.710	908217.23	8.0434	P	1.6
8	☐			8114.47	0.0716	P	0.7

$$y = 0.0081 * x + 0.0018$$

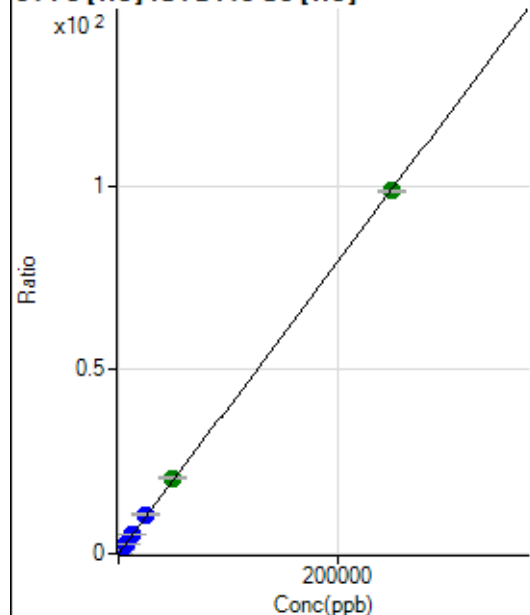
$$R = 1.0000$$

$$DL = 0.04323$$

$$BEC = 0.2278$$

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	1061.16	0.0088	P	6.4
2	☐	50.000	53.798	3804.96	0.0301	P	1.6
3	☐	2500.000	2788.939	132909.83	1.1134	P	0.9
4	☐	6250.000	6897.328	325787.66	2.7406	P	0.2
5	☐	12500.000	13595.104	630756.15	5.3934	P	0.2
6	☐	25000.000	27060.914	1213901.07	10.7267	P	0.4
7	☐	50000.000	51807.617	2317877.99	20.5281	A	1.8
8	☐	250000.00	249358.55	11191559.84	98.7717	A	0.4

$$y = 3.9607E-004 * x + 0.0088$$

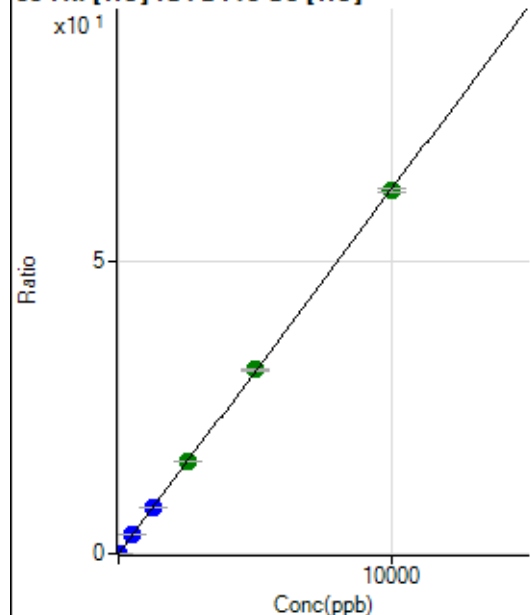
$$R = 0.9999$$

$$DL = 4.283$$

$$BEC = 22.18$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	138.89	0.0011	P	28.1
2	☐	1.000	0.918	870.04	0.0069	P	4.1
3	☐	500.000	520.682	388026.38	3.2505	P	1.3
4	☐	1250.000	1282.608	951633.39	8.0054	P	0.3
5	☐	2500.000	2546.393	1858607.28	15.8921	A	0.7
6	☐	5000.000	5054.719	3569821.58	31.5456	A	0.9
7	☐	10000.000	9955.932	7016049.13	62.1320	A	1.0
8	☐			4569.63	0.0403	P	1.0

$$y = 0.0062 * x + 0.0011$$

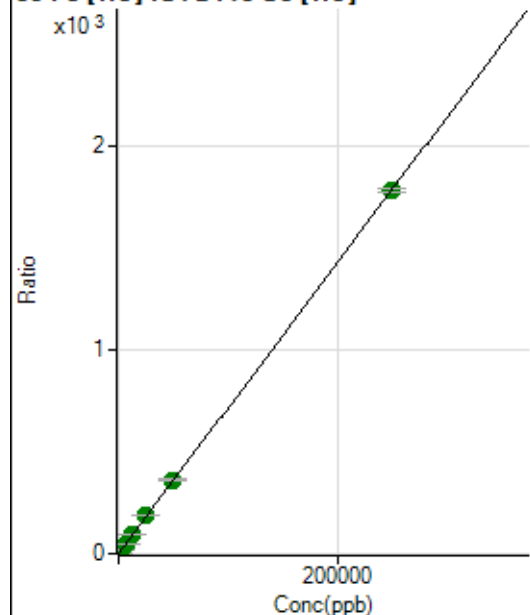
$$R = 1.0000$$

$$DL = 0.1553$$

$$BEC = 0.1841$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	5516.87	0.0457	P	9.0
2	☐	50.000	52.627	53287.27	0.4214	P	1.3
3	☐	2500.000	2687.738	2296077.38	19.2351	A	1.2
4	☐	6250.000	6594.213	5602087.69	47.1258	A	0.3
5	☐	12500.000	13009.700	10868191.92	92.9299	A	0.2
6	☐	25000.000	25901.547	20932657.61	184.9728	A	0.5
7	☐	50000.000	50791.931	40953808.83	362.6805	A	1.1
8	☐	250000.00	249715.49	202014303.6	1782.918	A	0.9

$$y = 0.0071 * x + 0.0457$$

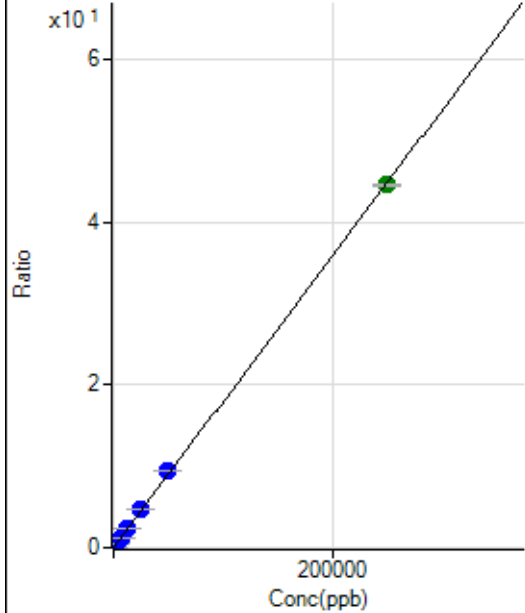
$$R = 1.0000$$

$$DL = 1.729$$

$$BEC = 6.399$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	221.12	0.0018	P	9.3
2	☐	50.000	54.950	1474.53	0.0117	P	10.6
3	☐	2500.000	2778.365	59615.37	0.4994	P	2.3
4	☐	6250.000	6860.384	146272.39	1.2305	P	1.1
5	☐	12500.000	13464.764	282239.79	2.4133	P	0.4
6	☐	25000.000	26898.209	545365.96	4.8192	P	0.6
7	☐	50000.000	52782.777	1067635.78	9.4550	P	1.3
8	☐	250000.00	249187.34	5057050.89	44.6303	A	0.5

$$y = 1.7910\text{E-}004 * x + 0.0018$$

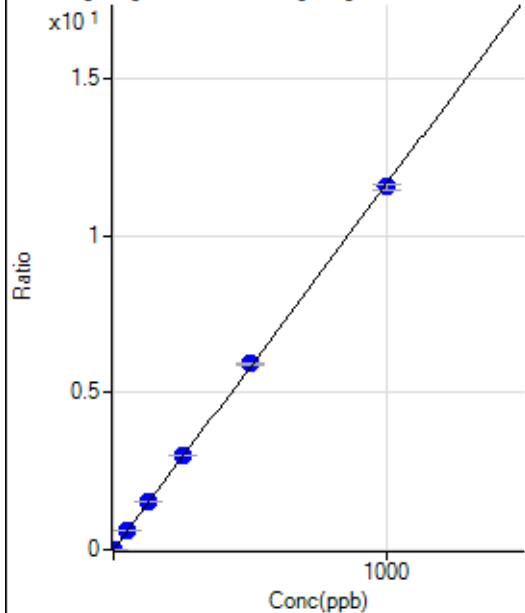
$$R = 0.9999$$

$$DL = 2.865$$

$$BEC = 10.23$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	43.33	0.0004	P	39.9
2	☐	1.000	1.109	1680.11	0.0133	P	5.1
3	☐	50.000	53.404	74376.27	0.6231	P	0.7
4	☐	125.000	131.039	181678.25	1.5283	P	0.0
5	☐	250.000	257.065	350588.72	2.9978	P	0.7
6	☐	500.000	509.712	672615.76	5.9438	P	1.0
7	☐	1000.000	992.453	1306749.55	11.5727	P	1.3
8	☐			3947.22	0.0348	P	3.0

$$y = 0.0117 * x + 3.5809\text{E-}004$$

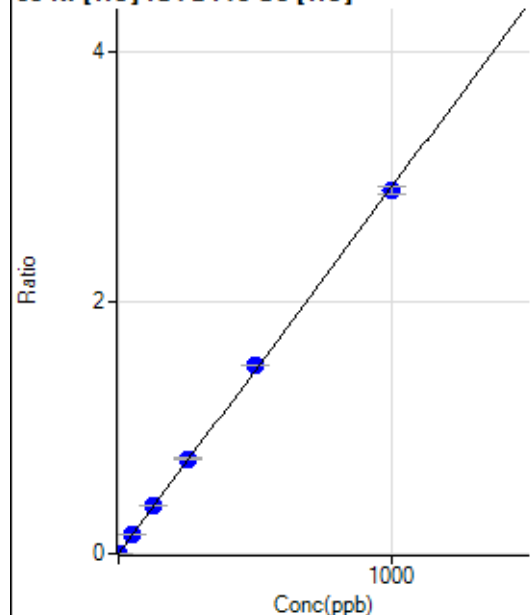
$$R = 0.9999$$

$$DL = 0.03674$$

$$BEC = 0.03071$$

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	122.22	0.0010	P	13.2
2	☐	1.000	1.027	506.68	0.0040	P	9.6
3	☐	50.000	54.108	18955.42	0.1588	P	1.8
4	☐	125.000	131.560	45726.06	0.3847	P	1.0
5	☐	250.000	259.362	88572.69	0.7574	P	0.2
6	☐	500.000	513.148	169457.43	1.4974	P	0.6
7	☐	1000.000	990.060	326102.37	2.8882	P	1.9
8	☐			2894.76	0.0256	P	3.4

$$y = 0.0029 * x + 0.0010$$

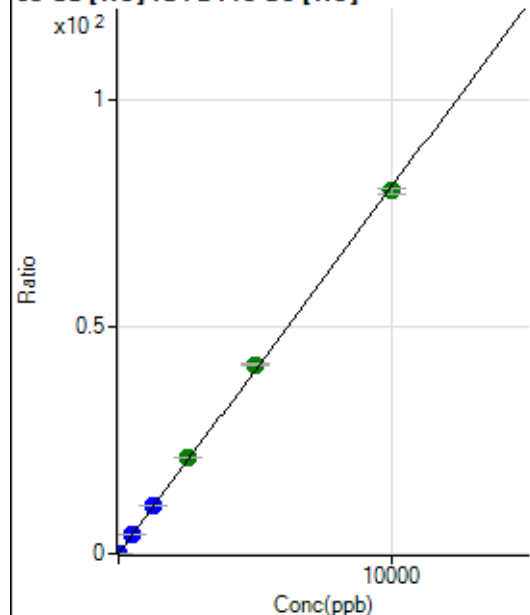
$$R = 0.9998$$

$$DL = 0.1374$$

$$BEC = 0.3469$$

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	737.80	0.0061	P	6.9
2	☐	2.000	1.988	2809.18	0.0222	P	5.2
3	☐	500.000	538.476	521269.81	4.3668	P	0.7
4	☐	1250.000	1311.192	1262964.25	10.6244	P	0.3
5	☐	2500.000	2606.450	2469271.16	21.1136	A	0.6
6	☐	5000.000	5150.073	4720544.86	41.7124	A	0.7
7	☐	10000.000	9888.778	9043172.02	80.0873	A	1.4
8	☐			4223.96	0.0373	P	0.4

$$y = 0.0081 * x + 0.0061$$

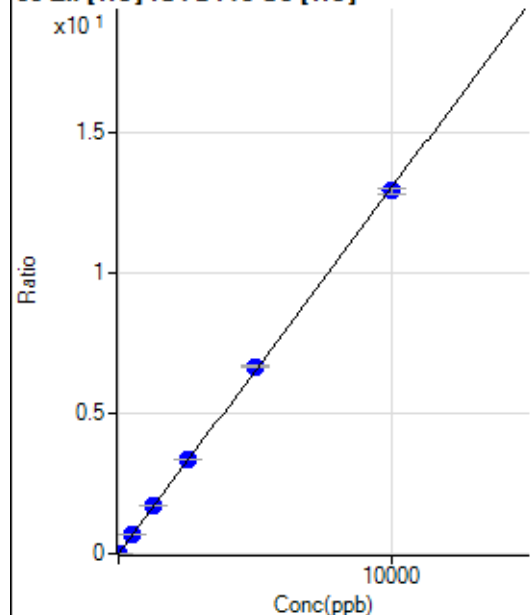
$$R = 0.9998$$

$$DL = 0.1562$$

$$BEC = 0.7541$$

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	257.78	0.0021	P	9.4
2	☐	5.000	4.544	1020.05	0.0081	P	6.7
3	☐	500.000	536.538	83860.08	0.7025	P	1.6
4	☐	1250.000	1312.589	203939.85	1.7156	P	0.6
5	☐	2500.000	2572.150	392933.39	3.3598	P	0.2
6	☐	5000.000	5112.209	755451.73	6.6757	P	0.6
7	☐	10000.000	9916.208	1461862.82	12.9469	P	1.7
8	☐			543.35	0.0048	P	9.3

$$y = 0.0013 * x + 0.0021$$

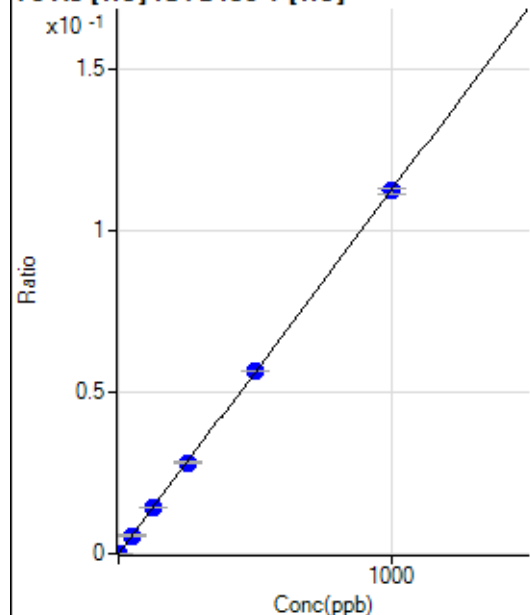
$$R = 0.9999$$

$$DL = 0.4595$$

$$BEC = 1.635$$

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	2.22	0.0000	P	173.
2	☐	1.000	0.935	108.89	0.0001	P	13.1
3	☐	50.000	50.039	5382.13	0.0056	P	4.7
4	☐	125.000	125.395	13443.97	0.0141	P	1.7
5	☐	250.000	250.149	26178.70	0.0282	P	1.6
6	☐	500.000	503.732	51391.88	0.0567	P	0.4
7	☐	1000.000	998.046	101512.66	0.1123	P	1.3
8	☐			90.00	0.0001	P	4.5

$$y = 1.1255E-004 * x + 2.2999E-006$$

$$R = 1.0000$$

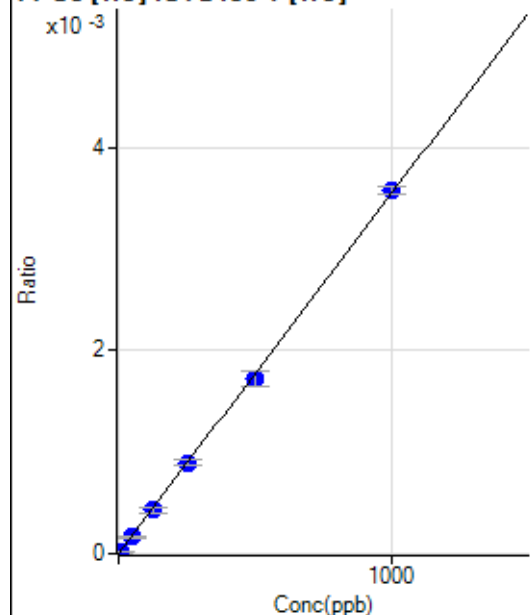
$$DL = 0.1062$$

$$BEC = 0.02043$$

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	1.11	0.0000	P	173.
2	☐	5.000	3.672	14.44	0.0000	P	51.4
3	☐	50.000	45.963	156.67	0.0002	P	15.8
4	☐	125.000	120.002	406.67	0.0004	P	11.8
5	☐	250.000	252.540	834.48	0.0009	P	7.5
6	☐	500.000	486.061	1564.54	0.0017	P	8.1
7	☐	1000.000	1007.168	3231.50	0.0036	P	2.0
8	☐			2.22	0.0000	P	86.6

$$y = 3.5492\text{E-}006 * x + 1.1484\text{E-}006$$

$$R = 0.9998$$

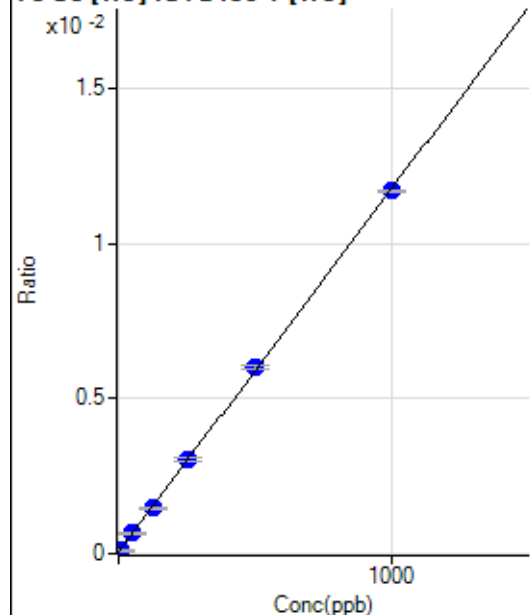
$$DL = 1.681$$

$$BEC = 0.3236$$

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	53.33	0.0001	P	41.1
2	☐	5.000	3.938	102.23	0.0001	P	29.8
3	☐	50.000	52.812	643.35	0.0007	P	8.4
4	☐	125.000	121.940	1413.42	0.0015	P	4.0
5	☐	250.000	253.909	2818.07	0.0030	P	4.1
6	☐	500.000	509.493	5462.17	0.0060	P	1.7
7	☐	1000.000	994.523	10582.75	0.0117	P	0.7
8	☐			67.78	0.0001	P	19.3

$$y = 1.1719\text{E-}005 * x + 5.5145\text{E-}005$$

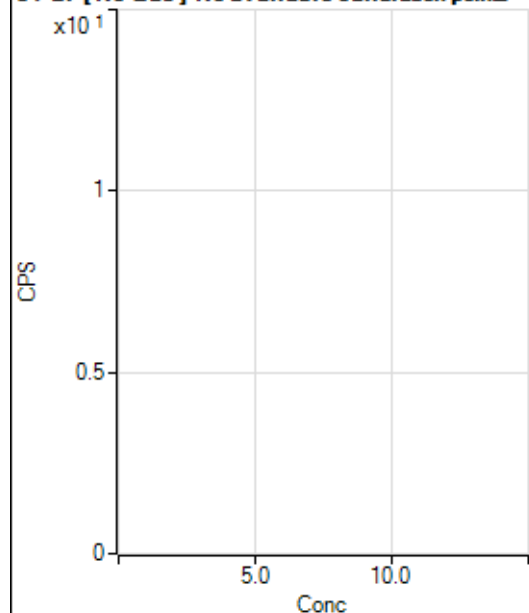
$$R = 0.9999$$

$$DL = 5.801$$

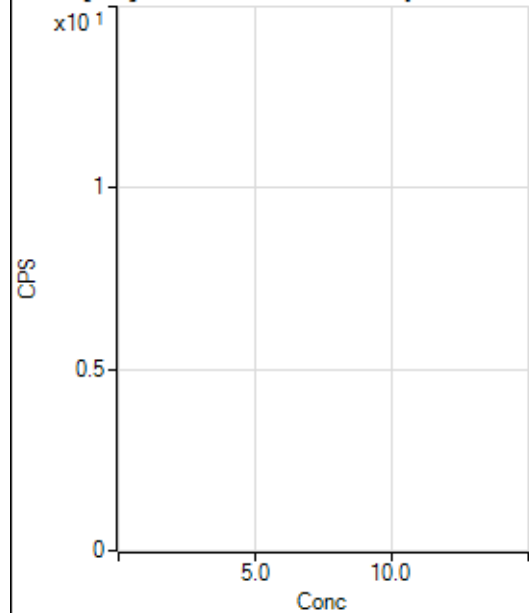
$$BEC = 4.706$$

Weight: <None>

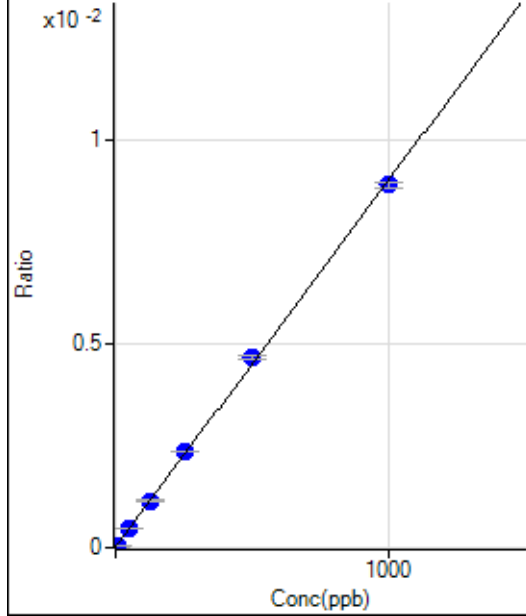
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			15435.95		P	2.0
2	☐			15473.80		P	3.2
3	☐			15156.76		P	1.8
4	☐			14747.46		P	1.3
5	☐			14491.70		P	2.0
6	☐			14297.01		P	0.4
7	☐			13753.17		P	1.2
8	☐			14478.29		P	0.9

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			16.67		P	72.1
2	☐			16.67		P	52.9
3	☐			28.89		P	52.0
4	☐			25.55		P	65.7
5	☐			22.22		P	37.8
6	☐			36.67		P	41.7
7	☐			23.33		P	14.3
8	☐			22.22		P	17.3

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	48.15	0.0000	P	17.5
2	☐	5.000	5.327	254.94	0.0001	P	2.0
3	☐	50.000	52.229	2051.97	0.0005	P	1.6
4	☐	125.000	127.149	4879.65	0.0012	P	3.7
5	☐	250.000	260.265	9665.29	0.0024	P	0.4
6	☐	500.000	518.771	18516.91	0.0047	P	1.8
7	☐	1000.000	987.667	36074.84	0.0089	P	1.8
8	☐			88.72	0.0000	P	2.5

$$y = 9.0021E-006 * x + 1.1171E-005$$

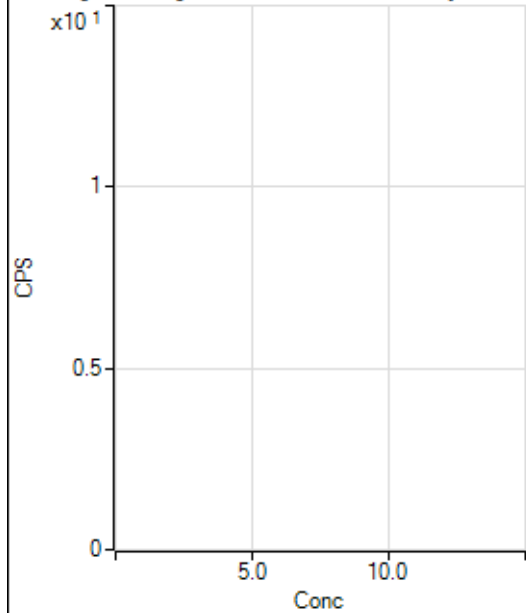
$$R = 0.9997$$

$$DL = 0.6533$$

$$BEC = 1.241$$

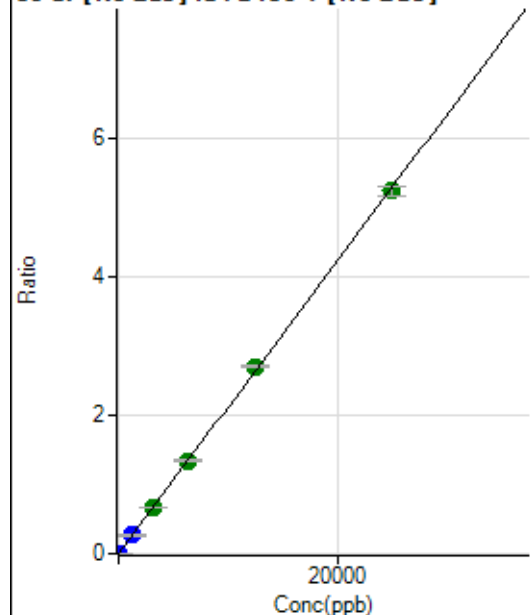
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			44.44		P	18.9
2	☐			38.89		P	47.2
3	☐			25.55		P	15.1
4	☐			50.00		P	30.6
5	☐			47.78		P	4.0
6	☐			36.67		P	32.8
7	☐			56.66		P	40.8
8	☐			35.56		P	5.4

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	125.56	0.0000	P	9.1
2	☐	1.000	1.053	1078.94	0.0003	P	9.4
3	☐	1250.000	1249.822	1122919.17	0.2634	P	0.7
4	☐	3125.000	3165.621	2817165.52	0.6672	A	1.5
5	☐	6250.000	6361.971	5505208.25	1.3408	A	0.7
6	☐	12500.000	12797.231	10668541.78	2.6970	A	1.1
7	☐	25000.000	24818.323	21193098.57	5.2304	A	2.3
8	☐			3747.18	0.0010	P	10.5

$$y = 2.1075E-004 * x + 2.9115E-005$$

$$R = 0.9999$$

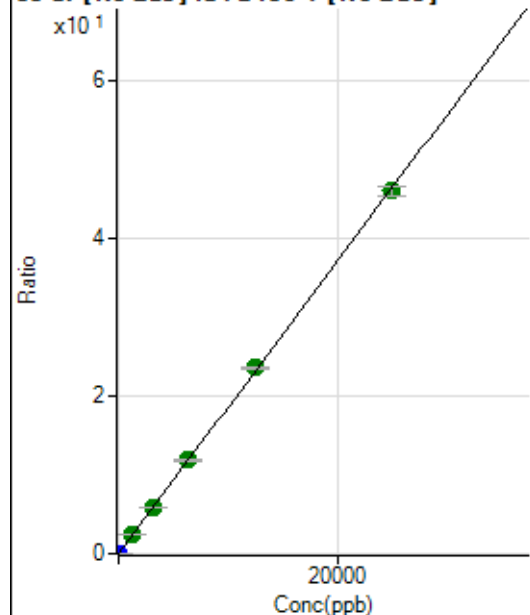
$$DL = 0.03768$$

$$BEC = 0.1382$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	563.35	0.0001	P	3.4
2	☐	1.000	0.993	8473.63	0.0020	P	5.1
3	☐	1250.000	1275.445	10069132.07	2.3622	A	1.1
4	☐	3125.000	3159.616	24707673.52	5.8515	A	0.8
5	☐	6250.000	6398.329	48649538.16	11.8494	A	0.8
6	☐	12500.000	12727.057	93234836.39	23.5698	A	1.0
7	☐	25000.000	24843.790	186412390.5	46.0092	A	2.6
8	☐			31506.18	0.0081	P	10.3

$$y = 0.0019 * x + 1.3058E-004$$

$$R = 0.9999$$

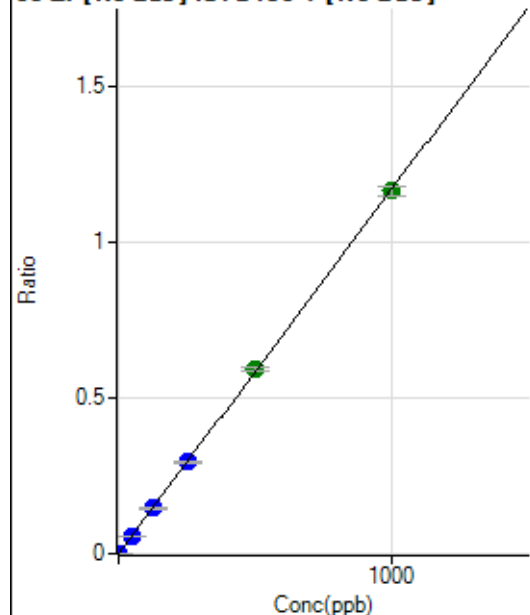
$$DL = 0.007218$$

$$BEC = 0.07051$$

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	228.89	0.0001	P	5.6
2	☐	1.000	0.886	4684.12	0.0011	P	8.2
3	☐	50.000	49.606	247736.34	0.0581	P	0.9
4	☐	125.000	124.366	614886.36	0.1456	P	1.1
5	☐	250.000	251.419	1208472.69	0.2943	P	0.7
6	☐	500.000	507.271	2348948.04	0.5938	A	1.8
7	☐	1000.000	996.109	4724472.15	1.1660	A	2.4
8	☐			2755.84	0.0007	P	5.2

$$y = 0.0012 * x + 5.3024E-005$$

$$R = 1.0000$$

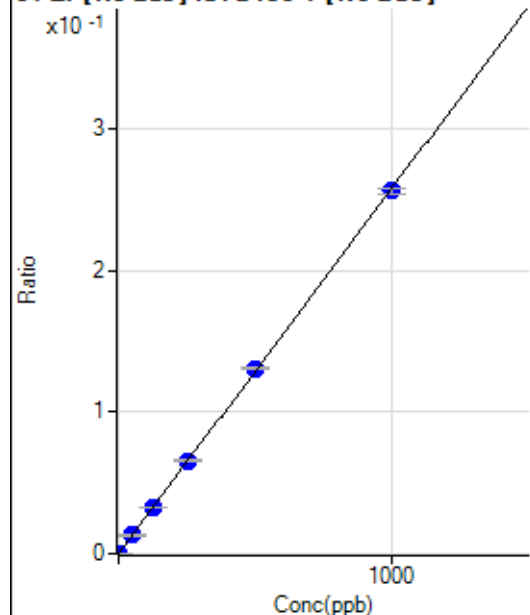
$$DL = 0.007653$$

$$BEC = 0.0453$$

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	35.56	0.0000	P	25.4
2	☐	1.000	0.873	1007.82	0.0002	P	2.9
3	☐	50.000	50.309	55376.12	0.0130	P	1.9
4	☐	125.000	126.026	137357.47	0.0325	P	1.2
5	☐	250.000	254.816	270020.66	0.0658	P	1.1
6	☐	500.000	508.396	519029.92	0.1312	P	0.7
7	☐	1000.000	994.455	1039952.86	0.2566	P	1.9
8	☐			653.35	0.0002	P	1.8

$$y = 2.5806E-004 * x + 8.2759E-006$$

$$R = 0.9999$$

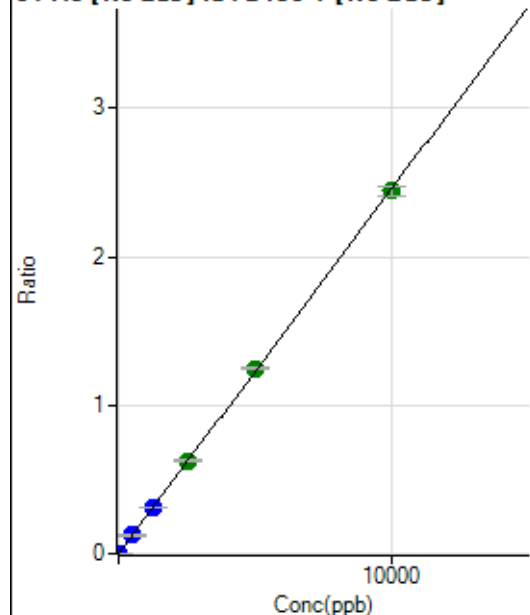
$$DL = 0.0244$$

$$BEC = 0.03207$$

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	160.00	0.0000	P	16.4
2	☐	5.000	5.179	5635.58	0.0013	P	4.6
3	☐	500.000	500.843	524728.64	0.1231	P	1.0
4	☐	1250.000	1246.722	1293605.34	0.3064	P	0.6
5	☐	2500.000	2549.053	2571432.62	0.6264	A	1.3
6	☐	5000.000	5080.543	4938837.01	1.2484	A	1.5
7	☐	10000.000	9947.833	9903982.84	2.4443	A	2.4
8	☐			6062.42	0.0016	P	7.6

$$y = 2.4571E-004 * x + 3.7188E-005$$

$$R = 0.9999$$

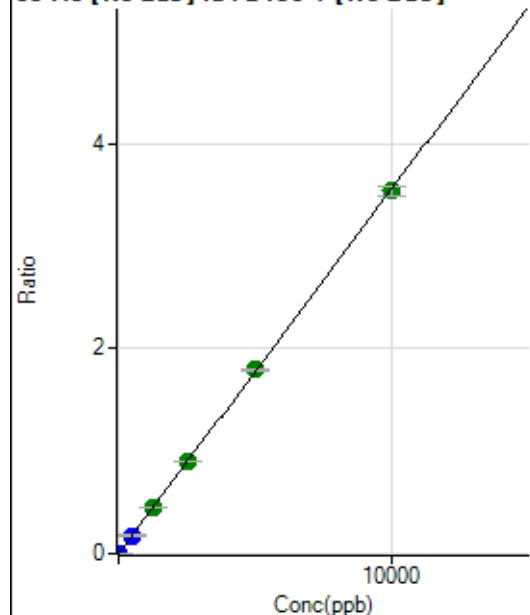
$$DL = 0.07453$$

$$BEC = 0.1513$$

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	311.12	0.0001	P	13.9
2	☐	5.000	4.556	7278.53	0.0017	P	6.0
3	☐	500.000	499.582	757514.88	0.1777	P	1.0
4	☐	1250.000	1259.159	1890736.64	0.4478	A	1.2
5	☐	2500.000	2546.047	3717066.20	0.9054	A	0.7
6	☐	5000.000	5062.856	7121793.64	1.8002	A	1.0
7	☐	10000.000	9955.936	14342686.45	3.5400	A	2.7
8	☐			8953.97	0.0023	P	10.4

$$y = 3.5556E-004 * x + 7.2316E-005$$

$$R = 1.0000$$

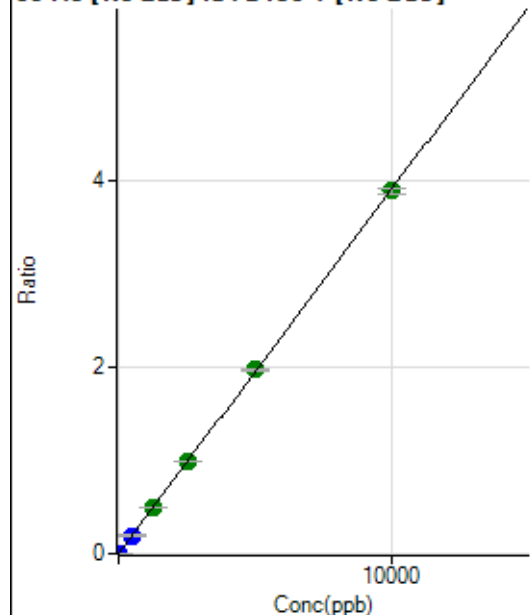
$$DL = 0.0851$$

$$BEC = 0.2034$$

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	95.56	0.0000	P	15.9
2	☐	5.000	4.717	8043.39	0.0019	P	4.1
3	☐	500.000	500.849	835924.80	0.1961	P	1.1
4	☐	1250.000	1255.347	2075234.24	0.4915	A	0.6
5	☐	2500.000	2532.145	4070225.18	0.9913	A	0.3
6	☐	5000.000	5060.158	7836609.54	1.9811	A	0.7
7	☐	10000.000	9961.174	15802884.91	3.8998	A	1.9
8	☐			10511.65	0.0027	P	4.4

$$y = 3.9150\text{E-}004 * x + 2.2109\text{E-}005$$

$$R = 1.0000$$

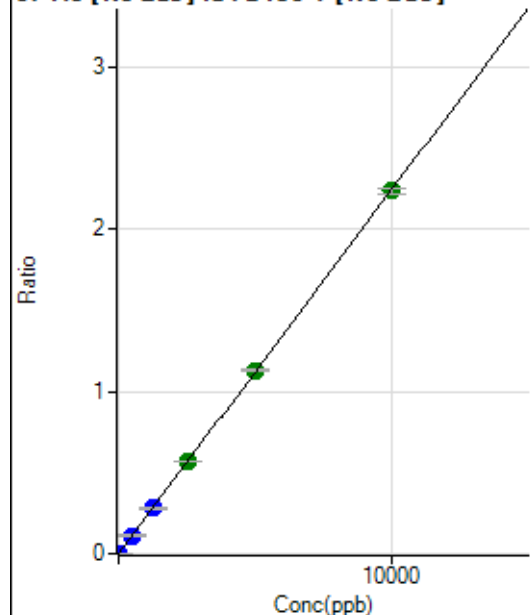
$$DL = 0.02688$$

$$BEC = 0.05647$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	66.67	0.0000	P	7.5
2	☐	5.000	4.464	4377.35	0.0010	P	5.3
3	☐	500.000	500.433	478918.04	0.1124	P	1.2
4	☐	1250.000	1244.709	1179833.64	0.2794	P	0.6
5	☐	2500.000	2533.741	2335236.08	0.5688	A	0.4
6	☐	5000.000	5037.590	4473112.43	1.1308	A	1.3
7	☐	10000.000	9973.409	9072712.23	2.2388	A	1.7
8	☐			5473.31	0.0014	P	6.8

$$y = 2.2448\text{E-}004 * x + 1.5478\text{E-}005$$

$$R = 1.0000$$

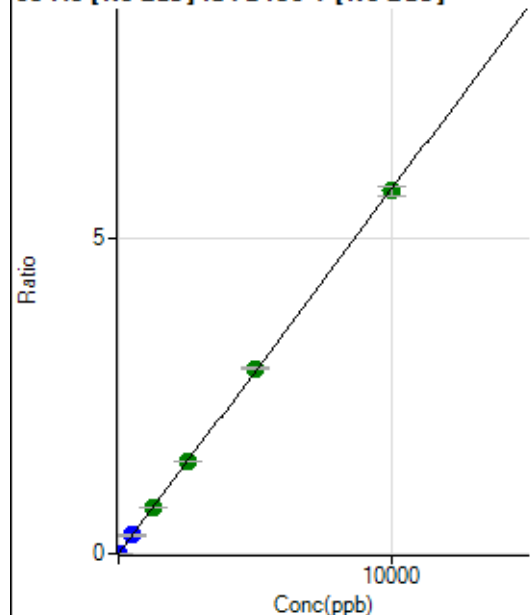
$$DL = 0.01542$$

$$BEC = 0.06895$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	114.45	0.0000	P	10.8
2	☐	5.000	4.608	11530.20	0.0027	P	8.7
3	☐	500.000	501.446	1232520.97	0.2891	P	0.9
4	☐	1250.000	1258.513	3063932.98	0.7256	A	0.2
5	☐	2500.000	2526.990	5981406.16	1.4570	A	1.6
6	☐	5000.000	5076.483	11578793.72	2.9269	A	1.3
7	☐	10000.000	9953.875	23253496.60	5.7390	A	2.6
8	☐			13911.20	0.0036	P	5.5

$$y = 5.7656E-004 * x + 2.6587E-005$$

$$R = 1.0000$$

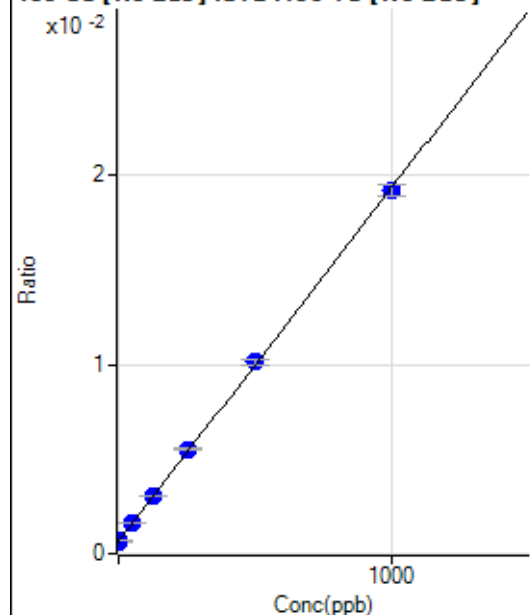
$$DL = 0.01495$$

$$BEC = 0.04611$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	3054.79	0.0006	P	1.8
2	☐	1.000	2.418	3259.28	0.0007	P	3.1
3	☐	50.000	52.118	7560.92	0.0016	P	1.8
4	☐	125.000	128.952	14292.66	0.0031	P	1.4
5	☐	250.000	261.618	25402.27	0.0055	P	0.9
6	☐	500.000	509.419	45030.66	0.0102	P	3.0
7	☐	1000.000	991.785	86209.13	0.0192	P	3.3
8	☐			2992.56	0.0007	P	6.6

$$y = 1.8685E-005 * x + 6.4206E-004$$

$$R = 0.9999$$

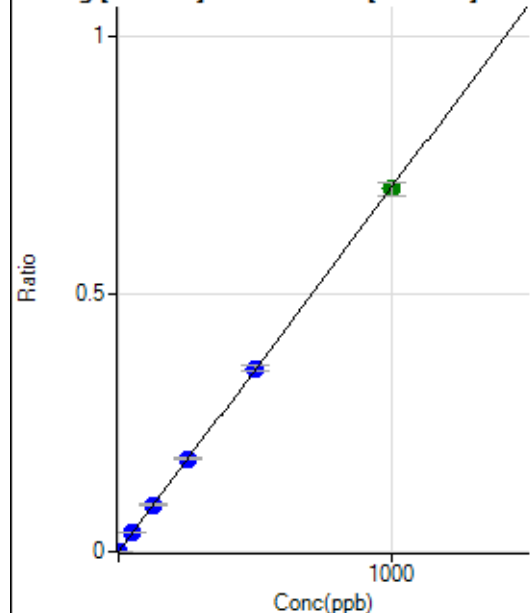
$$DL = 1.816$$

$$BEC = 34.36$$

Weight: <None>

Min Conc: 0

107 Ag [No Gas] ISTD :159 Tb [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	74.44	0.0000	P	7.4
2	☐	1.000	1.011	3454.89	0.0007	P	4.3
3	☐	50.000	52.840	174475.63	0.0373	P	1.8
4	☐	125.000	129.102	426653.79	0.0911	P	0.7
5	☐	250.000	256.071	829803.30	0.1807	P	1.0
6	☐	500.000	503.230	1573437.25	0.3550	P	2.8
7	☐	1000.000	996.213	3159334.74	0.7028	A	3.9
8	☐			658.91	0.0002	P	16.4

$$y = 7.0545\text{E-}004 * x + 1.5649\text{E-}005$$

$$R = 1.0000$$

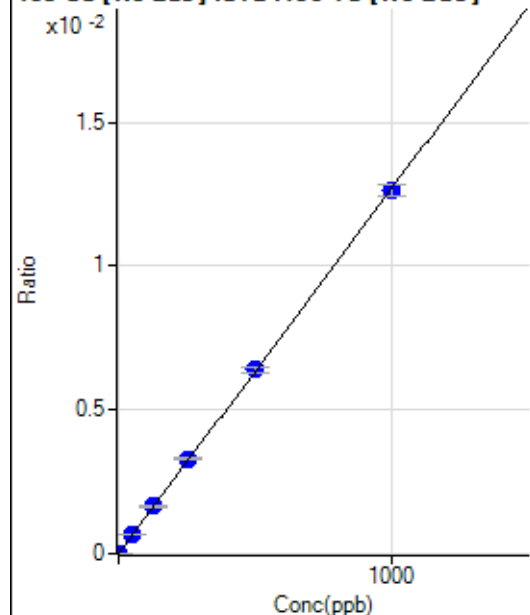
$$DL = 0.004906$$

$$BEC = 0.02218$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	7.78	0.0000	P	50.3
2	☐	1.000	1.066	72.22	0.0000	P	26.5
3	☐	50.000	53.519	3184.82	0.0007	P	0.9
4	☐	125.000	129.677	7714.34	0.0016	P	1.7
5	☐	250.000	259.848	15149.10	0.0033	P	2.9
6	☐	500.000	504.506	28375.56	0.0064	P	3.0
7	☐	1000.000	994.524	56742.52	0.0126	P	3.1
8	☐			132.22	0.0000	P	12.2

$$y = 1.2688\text{E-}005 * x + 1.6417\text{E-}006$$

$$R = 0.9999$$

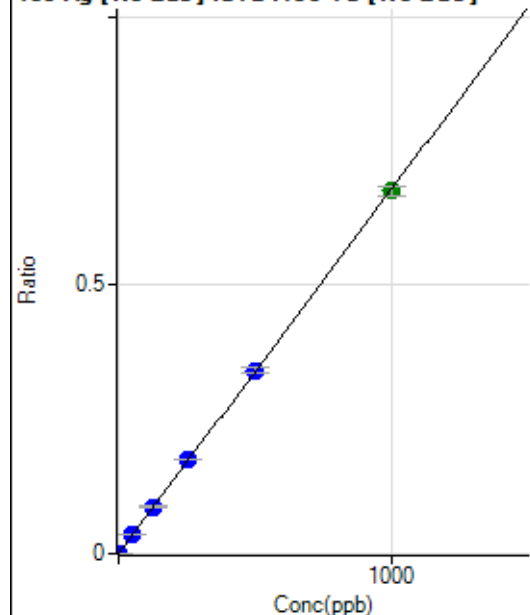
$$DL = 0.1951$$

$$BEC = 0.1294$$

Weight: <None>

Min Conc: 0

109 Ag [No Gas] ISTD :159 Tb [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	32.22	0.0000	P	69.8
2	☐	1.000	1.062	3447.11	0.0007	P	5.5
3	☐	50.000	52.817	167737.13	0.0359	P	1.9
4	☐	125.000	128.872	409675.48	0.0875	P	0.8
5	☐	250.000	257.594	802977.29	0.1748	P	1.3
6	☐	500.000	503.894	1515721.45	0.3420	P	2.5
7	☐	1000.000	995.530	3038376.83	0.6756	A	2.5
8	☐			574.46	0.0001	P	20.6

$$y = 6.7865\text{E-}004 * x + 6.7409\text{E-}006$$

$$R = 1.0000$$

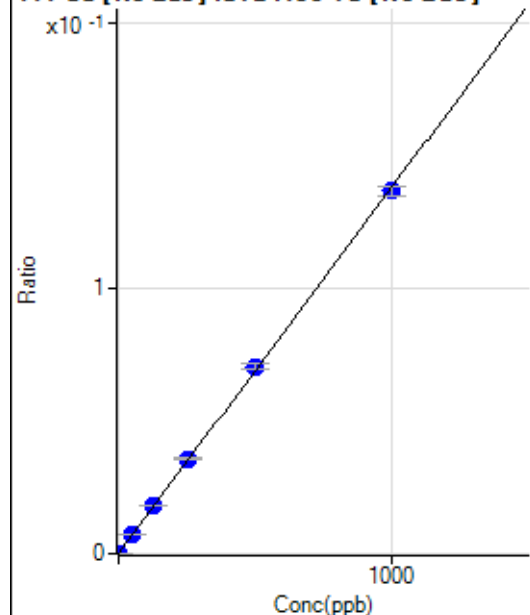
$$DL = 0.02081$$

$$BEC = 0.009933$$

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	318.92	0.0001	P	2.4
2	☐	1.000	1.073	1020.95	0.0002	P	3.4
3	☐	50.000	52.538	34205.01	0.0073	P	1.0
4	☐	125.000	129.505	83948.19	0.0179	P	0.6
5	☐	250.000	259.555	164673.65	0.0359	P	1.4
6	☐	500.000	511.326	312718.77	0.0706	P	3.2
7	☐	1000.000	991.258	614841.97	0.1367	P	2.9
8	☐			476.71	0.0001	P	7.9

$$y = 1.3787\text{E-}004 * x + 6.7035\text{E-}005$$

$$R = 0.9999$$

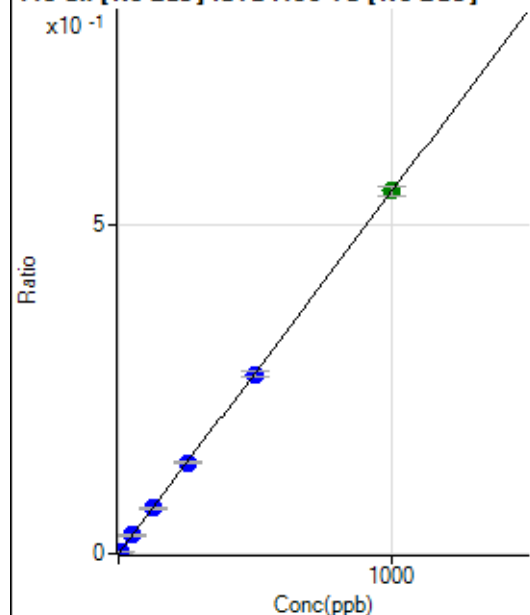
$$DL = 0.03501$$

$$BEC = 0.4862$$

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	401.12	0.0001	P	9.2
2	☐	5.000	4.879	13118.27	0.0028	P	5.7
3	☐	50.000	50.638	130776.67	0.0280	P	1.4
4	☐	125.000	124.929	322422.57	0.0688	P	0.7
5	☐	250.000	250.348	633181.83	0.1379	P	1.7
6	☐	500.000	495.553	1209088.74	0.2728	P	2.7
7	☐	1000.000	1002.114	2480609.91	0.5516	A	2.4
8	☐			2061.28	0.0005	P	1.9

$$y = 5.5033\text{E-}004 * x + 8.4227\text{E-}005$$

$$R = 1.0000$$

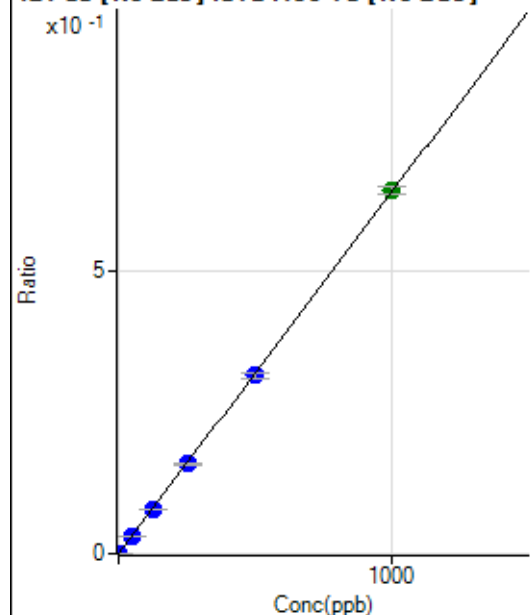
$$DL = 0.04222$$

$$BEC = 0.153$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	44.45	0.0000	P	14.8
2	☐	2.000	2.035	6223.62	0.0013	P	5.2
3	☐	50.000	49.993	149989.25	0.0321	P	0.5
4	☐	125.000	123.277	370171.38	0.0790	P	1.4
5	☐	250.000	248.801	732581.87	0.1595	P	1.2
6	☐	500.000	492.971	1400685.43	0.3160	P	2.5
7	☐	1000.000	1004.030	2894692.35	0.6436	A	2.1
8	☐			2297.99	0.0005	P	3.9

$$y = 6.4102\text{E-}004 * x + 9.3334\text{E-}006$$

$$R = 1.0000$$

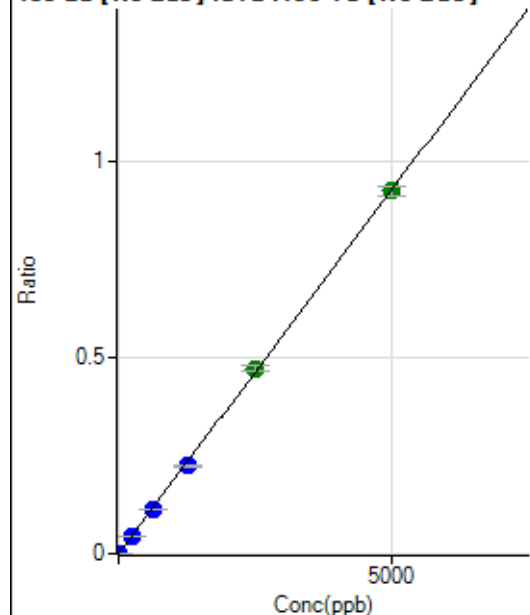
$$DL = 0.006475$$

$$BEC = 0.01456$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	36.66	0.0000	P	31.1
2	☐	10.000	9.705	8561.53	0.0018	P	4.0
3	☐	250.000	242.812	210619.03	0.0450	P	1.1
4	☐	625.000	602.868	523466.72	0.1118	P	0.6
5	☐	1250.000	1210.000	1030184.73	0.2243	P	1.6
6	☐	2500.000	2544.478	2090278.27	0.4717	A	3.1
7	☐	5000.000	4990.887	4159812.23	0.9251	A	3.0
8	☐			1725.68	0.0004	P	6.2

$$y = 1.8536\text{E-}004 * x + 7.6966\text{E-}006$$

$$R = 0.9999$$

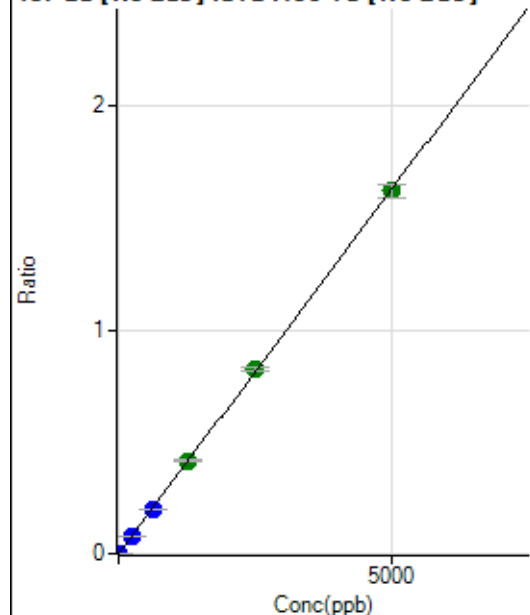
$$DL = 0.03875$$

$$BEC = 0.04152$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	58.89	0.0000	P	16.0
2	☐	10.000	9.785	15135.93	0.0032	P	4.8
3	☐	250.000	244.831	372585.58	0.0796	P	1.5
4	☐	625.000	602.710	918130.66	0.1960	P	0.8
5	☐	1250.000	1270.091	1897158.74	0.4131	A	1.9
6	☐	2500.000	2531.451	3649144.88	0.8233	A	2.4
7	☐	5000.000	4982.297	7284808.92	1.6203	A	3.4
8	☐			2973.68	0.0007	P	5.3

$$y = 3.2521\text{E-}004 * x + 1.2360\text{E-}005$$

$$R = 0.9999$$

$$DL = 0.01823$$

$$BEC = 0.03801$$

Weight: <None>

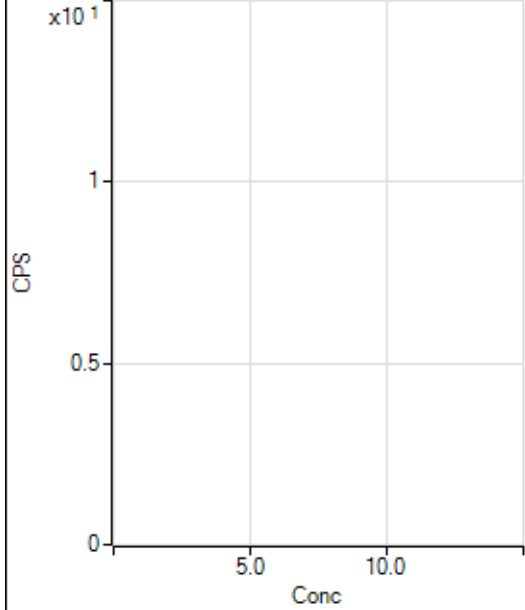
Min Conc: 0

150 Nd [No Gas] No available calibration points

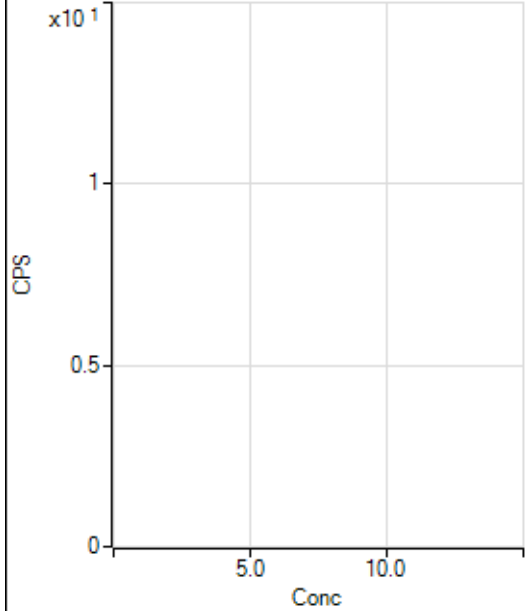
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			10.00		P	33.3
2	☐			7.78		P	49.5
3	☐			70.00		P	23.8
4	☐			173.34		P	13.5
5	☐			383.34		P	2.3
6	☐			655.58		P	3.4
7	☐			1382.31		P	2.6
8	☐			77.78		P	24.4

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.44		P	114.
2	☐			2.22		P	86.6
3	☐			25.56		P	7.5
4	☐			43.33		P	26.6
5	☐			62.22		P	29.5
6	☐			110.00		P	24.8
7	☐			255.56		P	9.2
8	☐			42.22		P	31.9

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			10.00		P	33.3
2	☐			8.89		P	21.6
3	☐			25.55		P	41.9
4	☐			42.22		P	19.9
5	☐			64.45		P	20.9
6	☐			126.67		P	9.5
7	☐			328.90		P	14.6
8	☐			170.00		P	8.5

156 Dy [He] No available calibration points

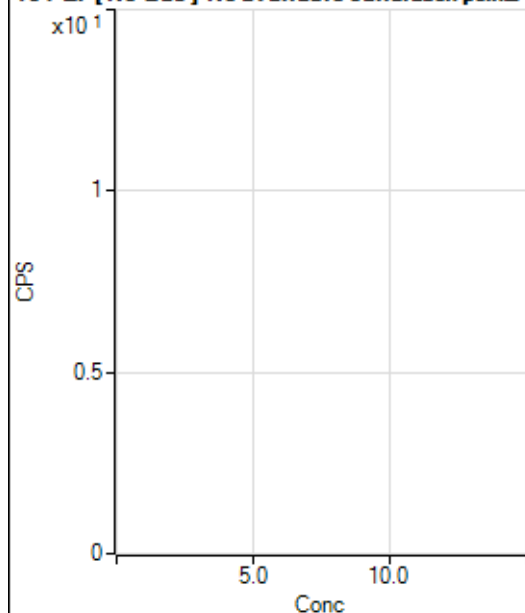
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.55		P	69.3
2	☐			0.00		P	
3	☐			11.11		P	17.3
4	☐			50.00		P	24.0
5	☐			66.67		P	26.0
6	☐			108.89		P	15.7
7	☐			284.45		P	12.4
8	☐			94.45		P	19.4

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

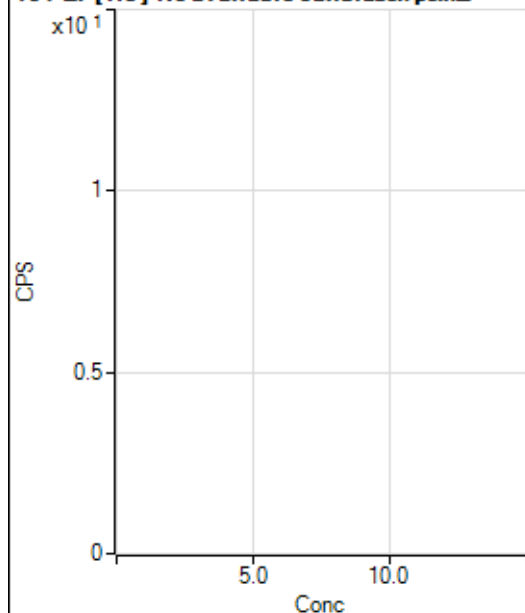
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			21.11		P	24.1
2	☐			23.33		P	42.9
3	☐			37.78		P	27.0
4	☐			37.78		P	20.4
5	☐			37.78		P	65.0
6	☐			55.56		P	25.0
7	☐			138.89		P	21.8
8	☐			140.00		P	10.9

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			175.56		P	11.1
2	☐			174.45		P	14.3
3	☐			155.56		P	21.6
4	☐			194.45		P	7.7
5	☐			152.22		P	4.6
6	☐			192.23		P	19.5
7	☐			257.78		P	13.9
8	☐			207.78		P	16.5

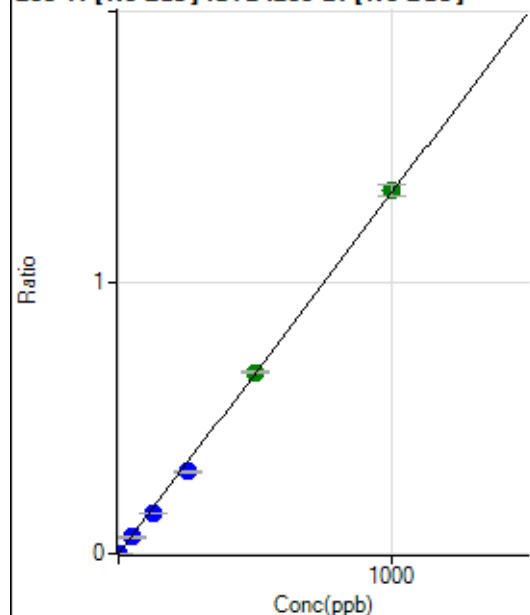
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			31.11		P	12.4
2	☐			24.44		P	56.8
3	☐			38.89		P	9.9
4	☐			48.89		P	37.5
5	☐			60.00		P	36.4
6	☐			88.89		P	21.6
7	☐			141.11		P	13.0
8	☐			157.78		P	10.6

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			17.78		P	43.3
2	☐			24.44		P	7.9
3	☐			18.89		P	62.0
4	☐			36.67		P	32.8
5	☐			28.89		P	48.0
6	☐			51.11		P	10.0
7	☐			76.66		P	27.2
8	☐			94.45		P	11.3

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	81.11	0.0000	P	15.3
2	☐	1.000	0.903	4010.63	0.0012	P	5.9
3	☐	50.000	45.346	191147.70	0.0602	P	0.6
4	☐	125.000	113.750	474093.59	0.1511	P	0.7
5	☐	250.000	226.574	942064.55	0.3009	P	0.6
6	☐	500.000	503.507	2001468.02	0.6687	A	1.4
7	☐	1000.000	1005.742	3968711.02	1.3357	A	3.2
8	☐			671.13	0.0003	P	19.3

$$y = 0.0013 * x + 2.4399E-005$$

$$R = 0.9997$$

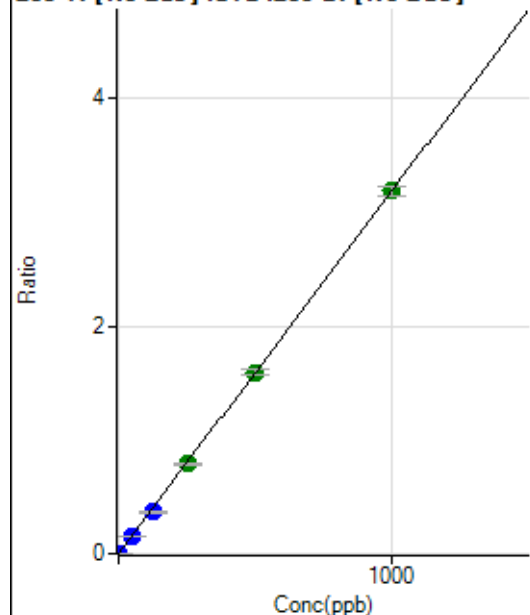
$$DL = 0.008432$$

$$BEC = 0.01837$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	226.67	0.0001	P	12.1
2	☐	1.000	0.910	9711.33	0.0030	P	5.4
3	☐	50.000	45.374	458508.19	0.1445	P	0.3
4	☐	125.000	114.316	1142144.95	0.3640	P	0.8
5	☐	250.000	247.164	2463448.82	0.7869	A	0.4
6	☐	500.000	501.419	4776629.30	1.5963	A	2.9
7	☐	1000.000	1001.566	9475145.34	3.1886	A	2.7
8	☐			1516.77	0.0006	P	10.8

$$y = 0.0032 * x + 6.8132E-005$$

$$R = 0.9999$$

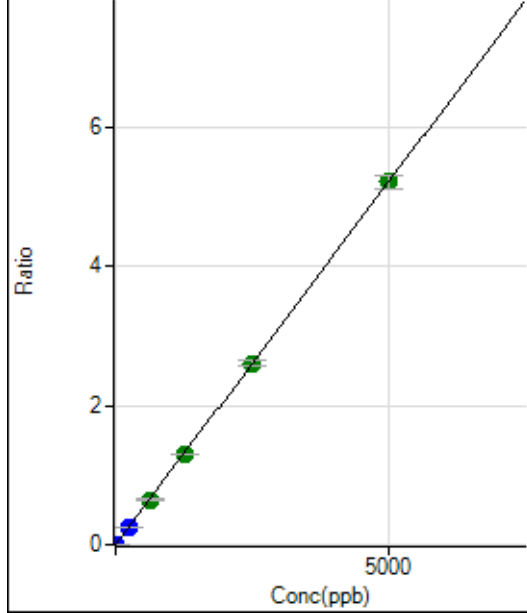
$$DL = 0.007778$$

$$BEC = 0.0214$$

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	227.78	0.0001	P	15.2
2	☐	1.000	0.895	3281.54	0.0010	P	4.7
3	☐	250.000	234.023	773789.28	0.2439	P	0.1
4	☐	625.000	621.288	2031086.17	0.6474	A	1.8
5	☐	1250.000	1243.993	4057618.59	1.2961	A	0.6
6	☐	2500.000	2501.971	7800335.51	2.6067	A	3.0
7	☐	5000.000	5001.779	15481721.85	5.2111	A	3.7
8	☐			6841.78	0.0026	P	4.1

$$y = 0.0010 * x + 6.8683E-005$$

$$R = 1.0000$$

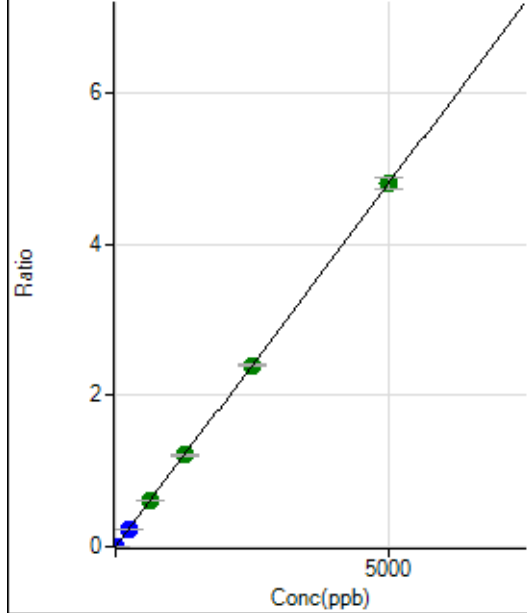
$$DL = 0.03008$$

$$BEC = 0.06592$$

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	190.00	0.0001	P	8.4
2	☐	1.000	0.845	2844.78	0.0009	P	7.6
3	☐	250.000	227.955	694589.99	0.2189	P	0.8
4	☐	625.000	630.390	1899333.20	0.6053	A	1.0
5	☐	1250.000	1259.218	3785108.80	1.2091	A	1.4
6	☐	2500.000	2499.682	7183212.81	2.4001	A	1.8
7	☐	5000.000	4998.283	14259904.65	4.7991	A	3.1
8	☐			6092.54	0.0023	P	5.5

$$y = 9.6014E-004 * x + 5.7129E-005$$

$$R = 1.0000$$

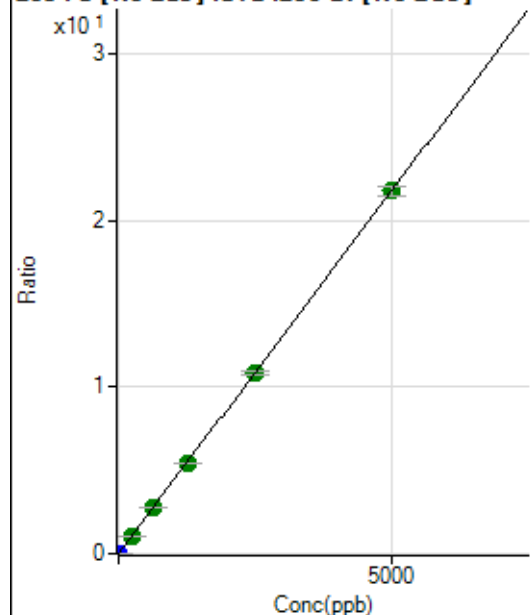
$$DL = 0.01497$$

$$BEC = 0.0595$$

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	851.13	0.0003	P	6.7
2	☐	1.000	0.870	13272.72	0.0040	P	3.2
3	☐	250.000	240.970	3331406.68	1.0500	A	0.4
4	☐	625.000	628.665	8594160.13	2.7389	A	0.9
5	☐	1250.000	1253.253	17092271.97	5.4598	A	0.8
6	☐	2500.000	2496.401	32548711.39	10.8754	A	1.6
7	☐	5000.000	5000.980	64737254.04	21.7862	A	2.9
8	☐			28397.66	0.0109	P	4.5

$$y = 0.0044 * x + 2.5633E-004$$

$$R = 1.0000$$

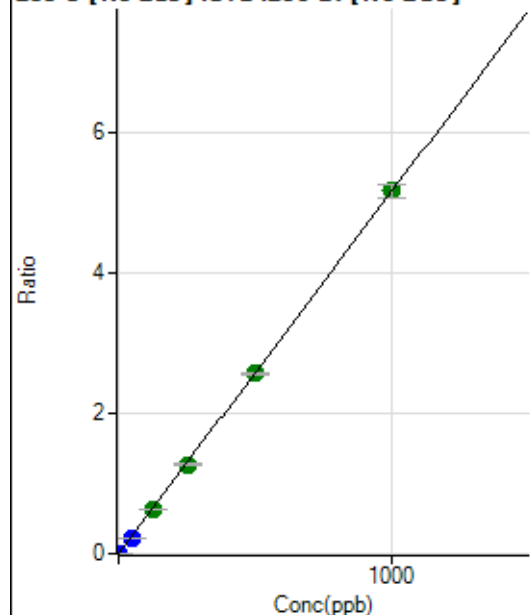
$$DL = 0.0118$$

$$BEC = 0.05884$$

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	44.44	0.0000	P	24.8
2	☐	1.000	0.851	14443.48	0.0044	P	6.2
3	☐	50.000	43.796	717895.83	0.2263	P	0.2
4	☐	125.000	123.489	2001917.19	0.6380	A	1.0
5	☐	250.000	247.052	3995429.14	1.2763	A	1.0
6	☐	500.000	497.340	7689436.00	2.5693	A	1.7
7	☐	1000.000	1002.566	15388479.63	5.1793	A	3.4
8	☐			1145.62	0.0004	P	17.6

$$y = 0.0052 * x + 1.3421E-005$$

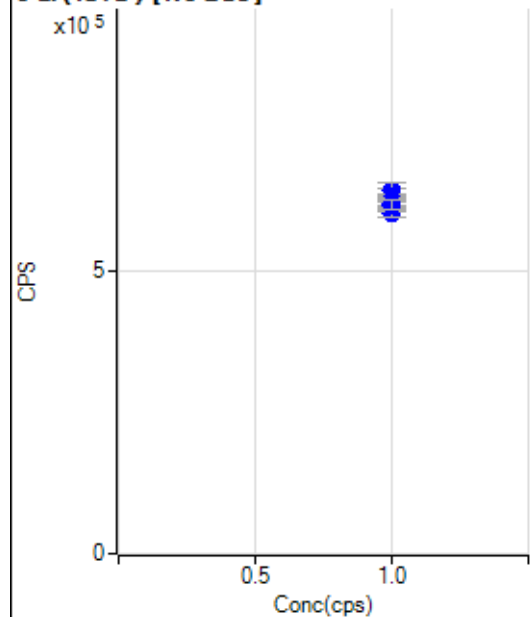
$$R = 1.0000$$

$$DL = 0.001934$$

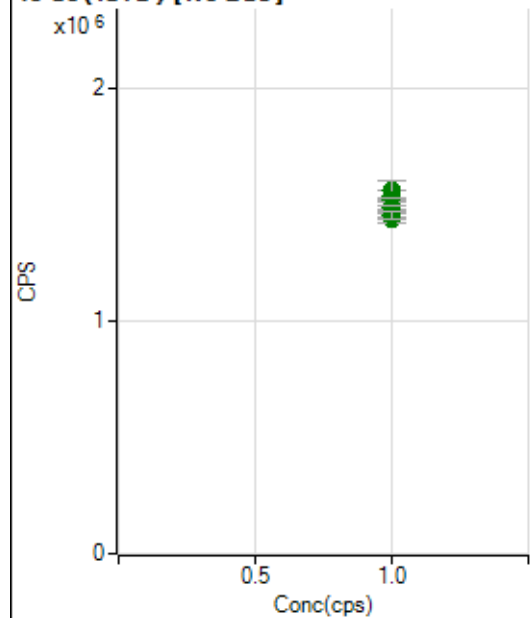
$$BEC = 0.002598$$

Weight: <None>

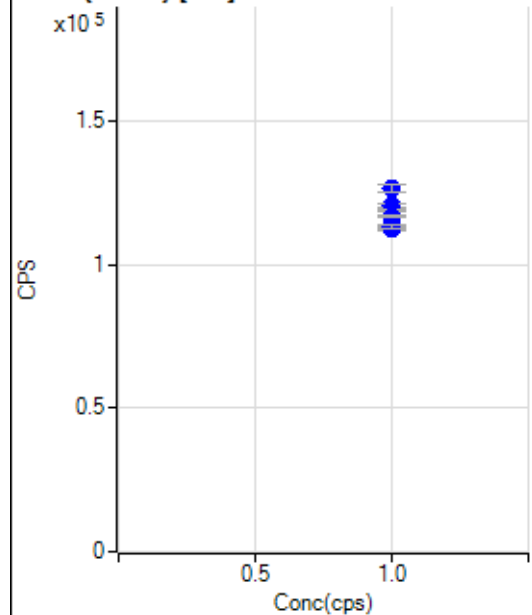
Min Conc: 0

6 Li (ISTD) [No Gas]

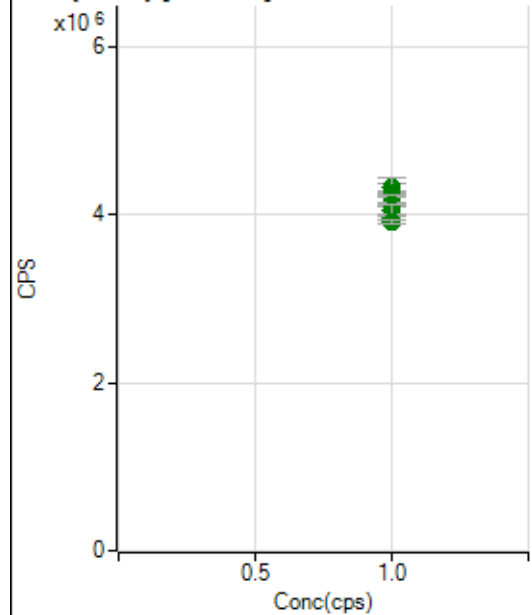
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		640317.25		P	1.5
2	☐	1.000		639837.21		P	4.4
3	☐	1.000		632797.50		P	0.2
4	☐	1.000		625984.51		P	0.2
5	☐	1.000		612416.76		P	0.2
6	☐	1.000		600065.58		P	1.5
7	☐	1.000		613154.16		P	2.2
8	☐	1.000		616670.21		P	2.6

45 Sc (ISTD) [No Gas]

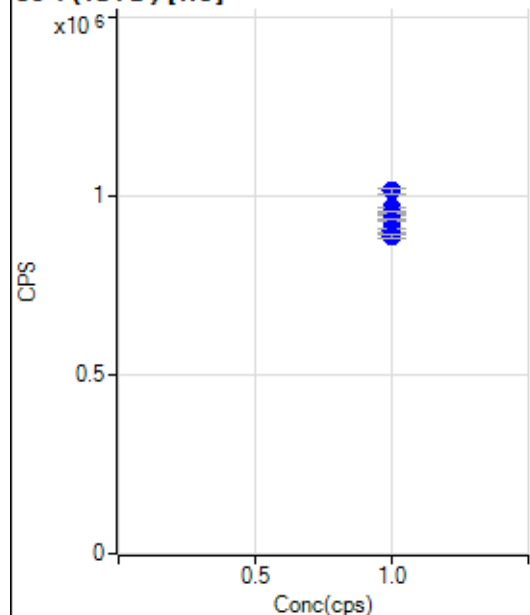
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1541556.12		A	2.5
2	☐	1.000		1561717.32		A	5.1
3	☐	1.000		1522161.32		A	1.0
4	☐	1.000		1487022.67		A	1.8
5	☐	1.000		1473036.16		A	0.7
6	☐	1.000		1438433.58		A	1.6
7	☐	1.000		1470762.50		A	3.5
8	☐	1.000		1456544.65		A	2.1

45 Sc (ISTD) [He]

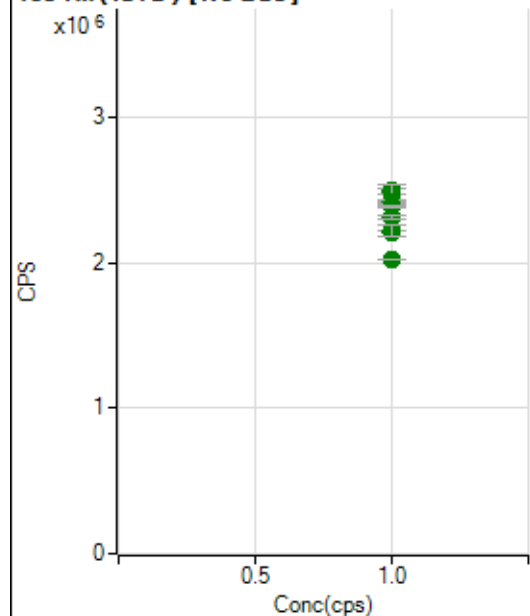
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		120774.10		P	0.8
2	☐	1.000		126465.80		P	2.0
3	☐	1.000		119375.25		P	0.7
4	☐	1.000		118874.63		P	0.4
5	☐	1.000		116949.81		P	0.4
6	☐	1.000		113167.25		P	0.5
7	☐	1.000		112933.47		P	1.7
8	☐	1.000		113309.33		P	0.7

89 Y (ISTD) [No Gas]

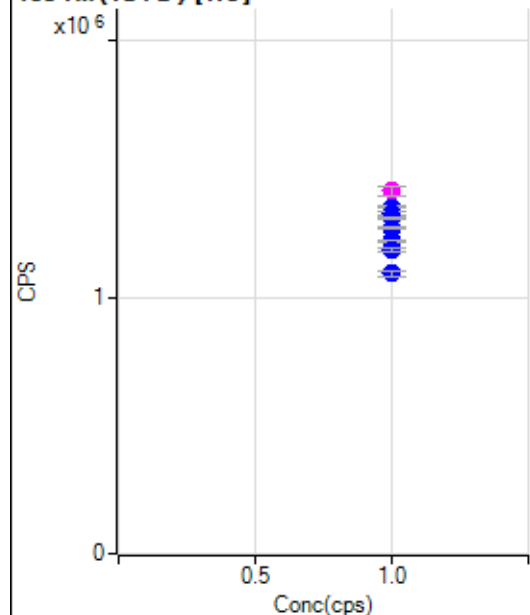
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4312617.92		A	2.6
2	☐	1.000		4309618.37		A	5.3
3	☐	1.000		4262826.18		A	0.5
4	☐	1.000		4222418.93		A	0.4
5	☐	1.000		4105756.43		A	1.0
6	☐	1.000		3956028.03		A	1.4
7	☐	1.000		4053883.52		A	3.2
8	☐	1.000		3903068.21		A	0.9

89 Y(ISTD) [He]

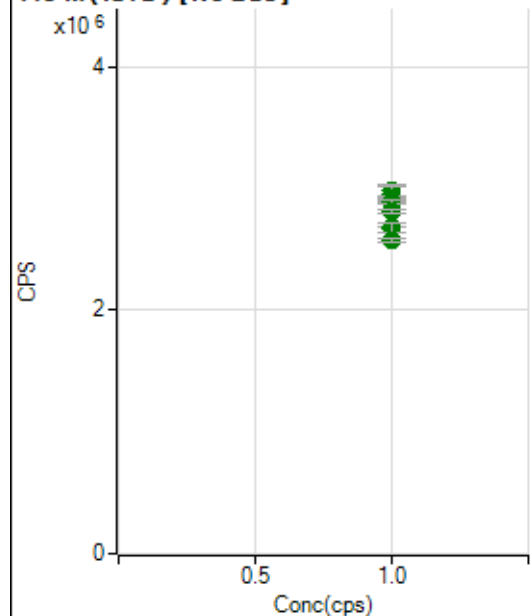
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		967562.16		P	0.2
2	☐	1.000		1012622.50		P	1.8
3	☐	1.000		955616.69		P	2.2
4	☐	1.000		952399.74		P	0.3
5	☐	1.000		929793.58		P	0.6
6	☐	1.000		906423.36		P	0.3
7	☐	1.000		903771.72		P	1.2
8	☐	1.000		884937.70		P	1.1

103 Rh(ISTD) [No Gas]

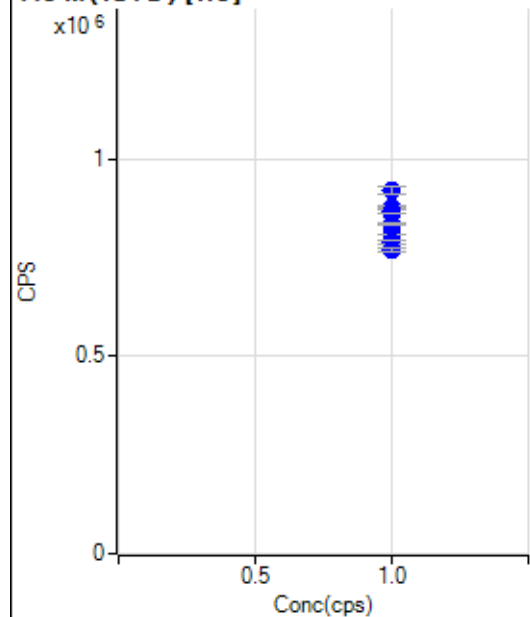
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2496255.76		A	1.9
2	☐	1.000		2484804.72		A	4.7
3	☐	1.000		2426695.68		A	1.1
4	☐	1.000		2388564.55		A	0.8
5	☐	1.000		2317198.77		A	0.8
6	☐	1.000		2204878.51		A	1.4
7	☐	1.000		2223035.97		A	3.4
8	☐	1.000		2025720.51		A	0.1

103 Rh (ISTD) [He]

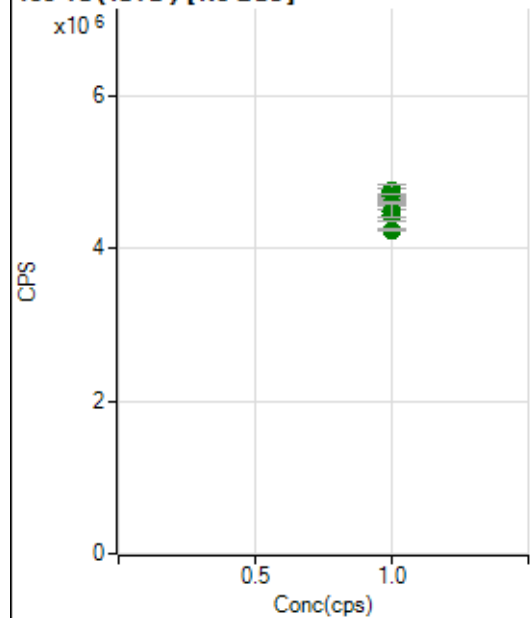
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1350068.42		P	0.7
2	☐	1.000		1413987.18		M	2.9
3	☐	1.000		1326297.52		P	1.6
4	☐	1.000		1308320.39		P	0.3
5	☐	1.000		1269050.13		P	0.7
6	☐	1.000		1219049.59		P	0.4
7	☐	1.000		1183585.95		P	1.4
8	☐	1.000		1091345.66		P	1.7

115 In (ISTD) [No Gas]

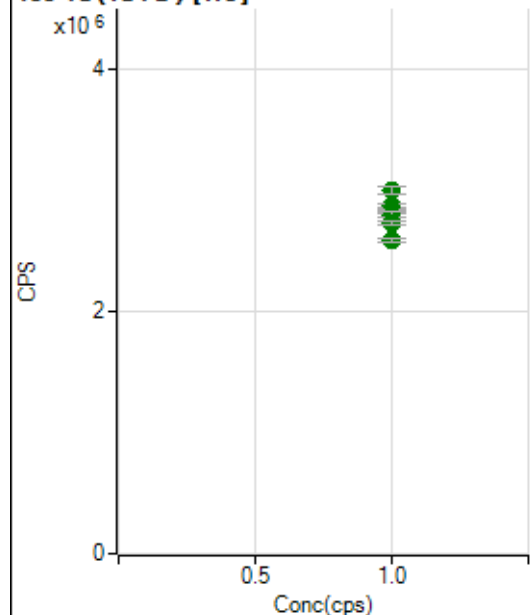
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2981805.66		A	3.1
2	☐	1.000		2956275.17		A	4.6
3	☐	1.000		2930605.80		A	0.4
4	☐	1.000		2892127.51		A	1.5
5	☐	1.000		2814432.84		A	0.8
6	☐	1.000		2663220.86		A	1.4
7	☐	1.000		2682260.06		A	3.2
8	☐	1.000		2581560.12		A	1.3

115 In (ISTD) [He]

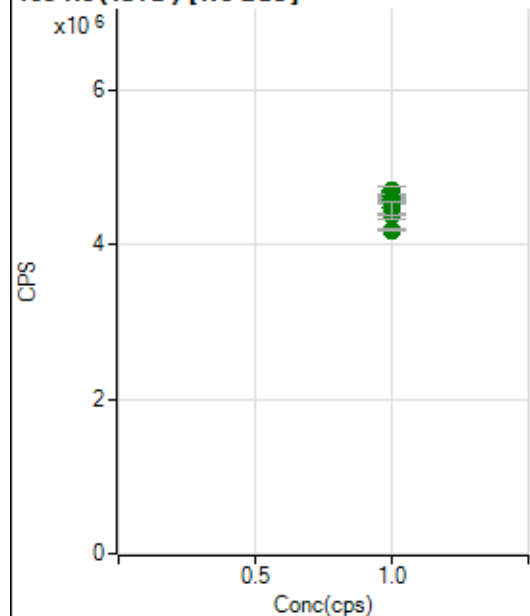
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		879676.54		P	0.4
2	☐	1.000		919539.13		P	2.1
3	☐	1.000		867816.39		P	1.4
4	☐	1.000		861629.15		P	0.1
5	☐	1.000		835321.03		P	0.5
6	☐	1.000		807963.33		P	0.1
7	☐	1.000		788469.20		P	1.3
8	☐	1.000		767743.29		P	1.3

159 Tb (ISTD) [No Gas]

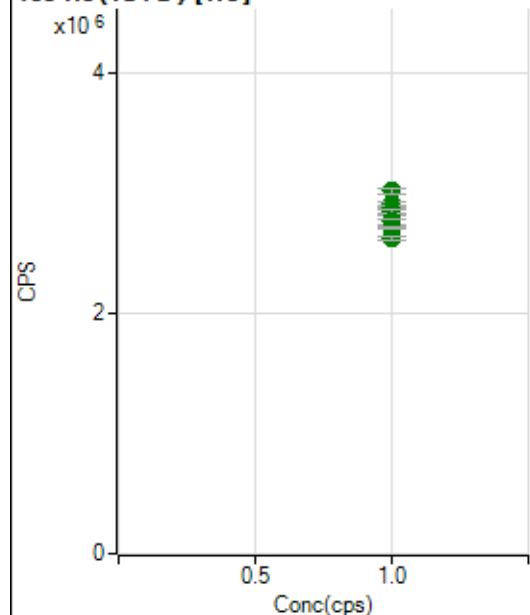
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4758511.08		A	1.4
2	☐	1.000		4744515.90		A	4.3
3	☐	1.000		4679071.84		A	0.9
4	☐	1.000		4684066.56		A	0.9
5	☐	1.000		4593386.15		A	0.7
6	☐	1.000		4434626.64		A	3.1
7	☐	1.000		4500014.37		A	3.9
8	☐	1.000		4248421.43		A	0.5

159 Tb (ISTD) [He]

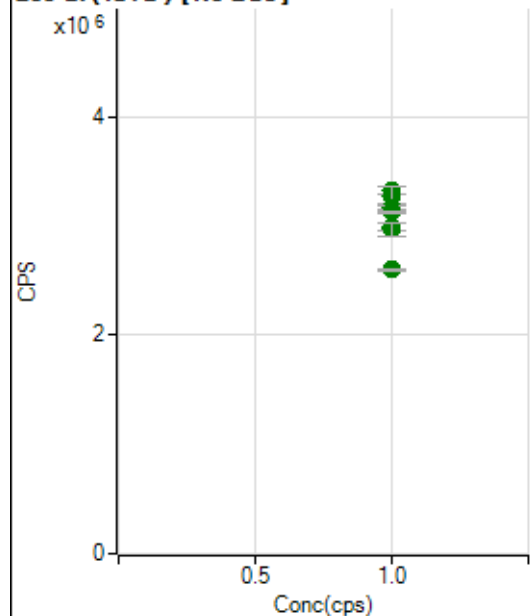
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2871766.87		A	1.1
2	☐	1.000		2990982.04		A	2.2
3	☐	1.000		2834494.57		A	1.5
4	☐	1.000		2826633.22		A	1.2
5	☐	1.000		2797766.73		A	1.7
6	☐	1.000		2728028.92		A	1.5
7	☐	1.000		2728260.52		A	1.2
8	☐	1.000		2583433.50		A	1.5

165 Ho (ISTD) [No Gas]

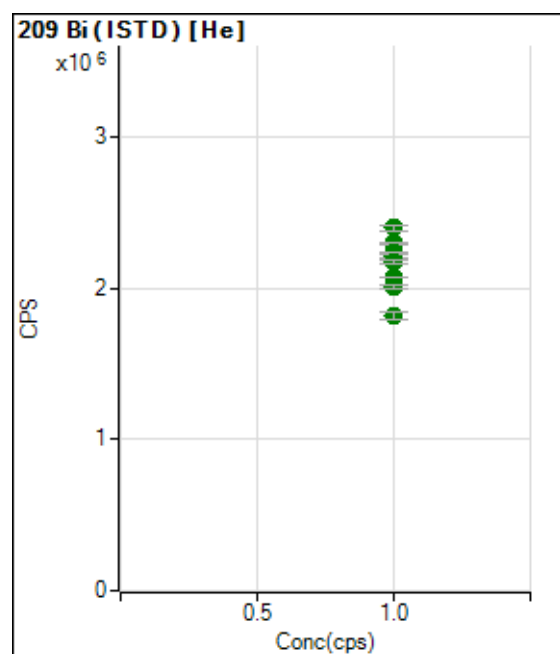
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4692821.25		A	2.3
2	☐	1.000		4664195.00		A	4.1
3	☐	1.000		4622809.24		A	0.7
4	☐	1.000		4576390.83		A	1.2
5	☐	1.000		4544987.64		A	0.3
6	☐	1.000		4366437.23		A	1.8
7	☐	1.000		4470533.93		A	3.8
8	☐	1.000		4191064.03		A	0.3

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2912076.52		A	1.8
2	☐	1.000		3023950.96		A	1.8
3	☐	1.000		2844638.01		A	2.2
4	☐	1.000		2884142.87		A	1.0
5	☐	1.000		2856310.91		A	1.1
6	☐	1.000		2768843.48		A	1.5
7	☐	1.000		2716331.31		A	0.9
8	☐	1.000		2630886.75		A	1.5

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3323669.36		A	2.3
2	☐	1.000		3282593.42		A	5.1
3	☐	1.000		3172789.33		A	0.9
4	☐	1.000		3138026.34		A	1.4
5	☐	1.000		3130554.85		A	0.4
6	☐	1.000		2993674.33		A	2.7
7	☐	1.000		2973833.57		A	4.1
8	☐	1.000		2599925.81		A	0.7



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2292830.68		A	0.6
2	☐	1.000		2395972.83		A	1.6
3	☐	1.000		2210517.10		A	1.6
4	☐	1.000		2229352.81		A	0.5
5	☐	1.000		2173004.45		A	1.0
6	☐	1.000		2071449.64		A	0.4
7	☐	1.000		2010424.86		A	1.5
8	☐	1.000		1813813.08		A	2.5

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7071824-MS1.b

Acq. Date-Time 2024-07-18 12:39:44

Report Comment ---

Instrument Name G8403A JP14410463

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		3767	37671.21			0.540	5.000
24		32950	329499.67			0.584	5.000
25		4451	44514.97			0.995	5.000
26		5061	50605.89			0.774	5.000
59		30060	300595.11			0.559	5.000
113		4518	45182.56			0.684	5.000
115		57148	571479.19			0.640	5.000
206		17511	175109.83			0.274	5.000
207		16038	160377.27			0.252	5.000
208		37921	379209.15			0.445	5.000
220		0	1.00			117.260	

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

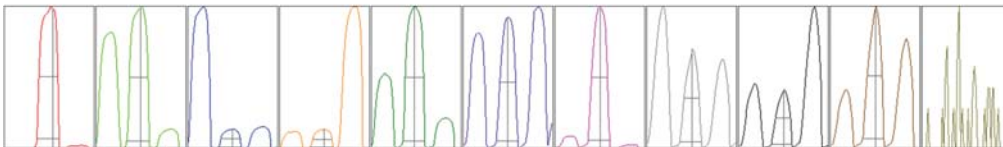
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	3779	3745	3758	3796	3758
24	32906	32662	32972	33190	33020
25	4437	4389	4452	4510	4469
26	5040	5028	5035	5120	5080
59	30038	29855	29963	30288	30153
113	4507	4479	4507	4558	4540
115	56981	56691	57261	57682	57125
206	17490	17485	17481	17596	17504
207	15988	16012	16038	16058	16093
208	37965	37661	37854	38048	38076

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	0	0

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	6177.38	9.15	8.90 - 9.10	Fail
24	54693.00	24.00	23.90 - 24.10	
25	7228.26	25.00	24.90 - 25.10	
26	8131.61	26.00	25.90 - 26.10	
59	51083.51	58.95	58.90 - 59.10	
113	8871.60	113.00	112.90 - 113.10	
115	111551.28	115.05	114.90 - 115.10	
206	36628.83	206.05	205.90 - 206.10	
207	33019.74	207.05	206.90 - 207.10	
208	79338.00	208.05	207.90 - 208.10	
220	0.00	219.65	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.62	0.739	0.900	
24	0.62	0.762	0.900	
25	0.64	0.743	0.900	
26	0.64	0.760	0.900	
59	0.61	0.740	0.900	
113	0.52	0.731	0.900	
115	0.52	0.726	0.900	
206	0.50	0.735	0.900	
207	0.50	0.696	0.900	
208	0.49	0.717	0.900	
220	0.18	0.175		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode ---

Nebulizer Gas 0.82 L/min

Dilution Gas 0.40 L/min

US EPA Tune Check Report

RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	9.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	9.1 V	Deflect	15.2 V
Extract 2	-120.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-65 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	150 V		

QP Parameters

Mass Gain	134	Axis Gain	0.9973	QP Bias	-3.0 V
Mass Offset	130	Axis Offset	0.15		

Hardware Settings

Torch

Torch H	-0.3 mm	Torch V	0.4 mm
---------	---------	---------	--------

EM

Discriminator	4.6 mV	Analog HV	2312 V	Pulse HV	1396 V
---------------	--------	-----------	--------	----------	--------

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		9204	92036.76			0.645	
89		12441	124405.98			0.870	
205		17335	173347.79			1.076	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	9278	9247	9197	9133	9163
89	12584	12525	12370	12332	12392
205	17496	17576	17216	17191	17194

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.82 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	9.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	8.7 V	Deflect	3.2 V
-----------	-------	------------	-------	---------	-------

US EPA Tune Check Report

Extract 2	-110.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-70 V	Cell Exit	-60 V		
Cell Parameters					
Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.9 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		
QP Parameters					
Mass Gain	134	Axis Gain	0.9973	QP Bias	-13.0 V
Mass Offset	130	Axis Offset	0.15		
Hardware Settings					
Torch					
Torch H	-0.3 mm	Torch V	0.4 mm		
EM					
Discriminator	4.6 mV	Analog HV	2312 V	Pulse HV	1396 V