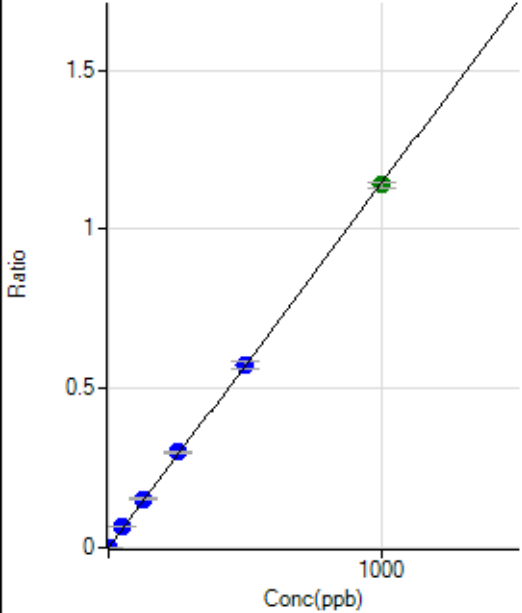


Calibration for 007CALS.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P7042924-PS.b\
 Analysis File: P7042924-PS.batch.bin
 DA Date-Time: 2024-04-29 22:00:11
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2024-04-29 20:37:29
2	006CALS.d	S02	2024-04-29 20:44:04
3	007CALS.d	S03	2024-04-29 20:47:19
4	008CALS.d	S04	2024-04-29 20:50:21
5	009CALS.d	S05	2024-04-29 20:53:13
6	010CALS.d	S06	2024-04-29 20:56:05
7	011CALS.d	S07	2024-04-29 20:58:50
8	012CALS.d	S08	2024-04-29 21:01:37

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	60.00	0.0000	P	22.7
2	☐	1.000	1.057	2349.09	0.0012	P	3.3
3	☐	50.000	56.862	121492.15	0.0651	P	0.4
4	☐	125.000	133.649	293449.44	0.1530	P	3.8
5	☐	250.000	261.195	550458.97	0.2989	P	0.4
6	☐	500.000	500.557	1054584.59	0.5728	P	4.9
7	☐	1000.000	995.499	1965257.11	1.1391	A	1.7
8	☐			1016.71	0.0006	P	17.3

$y = 0.0011 * x + 3.3102E-005$

$R = 0.9999$

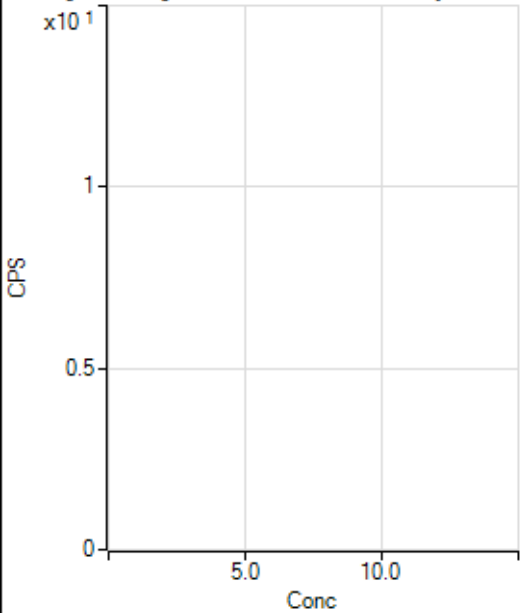
$DL = 0.0197$

$BEC = 0.02893$

Weight: <None>

Min Conc: 0

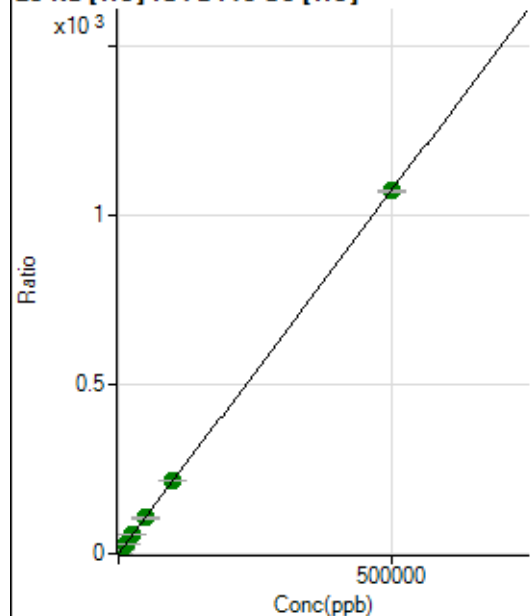
12 C [No Gas] No available calibration points



	Rj 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	19143.11	0.0561	P	3.4
2	☐	500.000	486.408	377090.94	1.1001	P	2.4
3	☐	5000.000	5360.834	3786605.84	11.5619	A	0.3
4	☐	12500.000	13215.266	8981362.43	28.4195	A	0.2
5	☐	25000.000	25726.091	16980890.30	55.2710	A	0.8
6	☐	50000.000	49703.159	33575374.22	106.7319	A	3.1
7	☐	100000.00	101475.60	67334925.66	217.8490	A	0.4
8	☐	500000.00	499676.78	333873501.6	1,072.491	A	0.5

$$y = 0.0021 * x + 0.0561$$

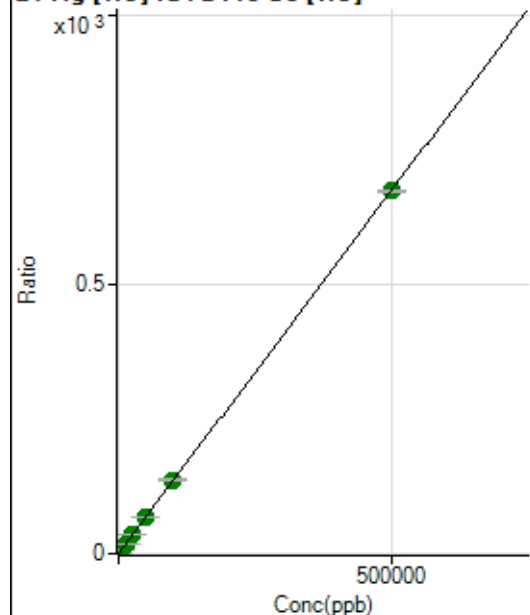
$$R = 1.0000$$

$$DL = 2.683$$

$$BEC = 26.16$$

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	3679.36	0.0108	P	6.4
2	☐	500.000	485.283	227805.58	0.6645	P	1.4
3	☐	5000.000	5431.892	2399840.07	7.3275	A	1.0
4	☐	12500.000	13453.685	5730599.70	18.1328	A	0.9
5	☐	25000.000	25993.533	10760154.56	35.0239	A	1.4
6	☐	50000.000	50313.506	21324884.96	67.7828	A	2.5
7	☐	100000.00	101795.04	42385406.59	137.1281	A	0.3
8	☐	500000.00	499531.81	209465281.3	672.8768	A	0.9

$$y = 0.0013 * x + 0.0108$$

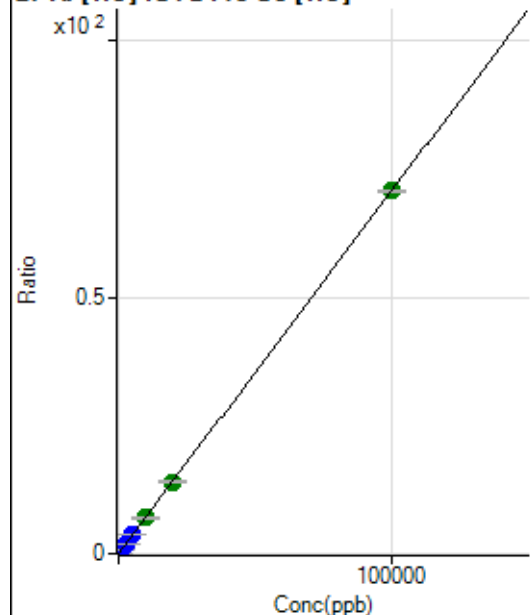
$$R = 1.0000$$

$$DL = 1.551$$

$$BEC = 8.015$$

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	2279.08	0.0067	P	4.0
2	☐	20.000	11.271	5023.09	0.0147	P	1.5
3	☐	1000.000	1101.331	257144.35	0.7852	P	0.5
4	☐	2500.000	2719.534	609619.26	1.9290	P	0.7
5	☐	5000.000	5278.052	1148275.28	3.7375	P	0.5
6	☐	10000.000	9827.092	2187536.50	6.9530	A	2.3
7	☐	20000.000	19861.074	4341323.02	14.0455	A	0.5
8	☐	100000.00	100024.67	22012303.00	70.7091	A	0.4

$$y = 7.0685E-004 * x + 0.0067$$

$$R = 1.0000$$

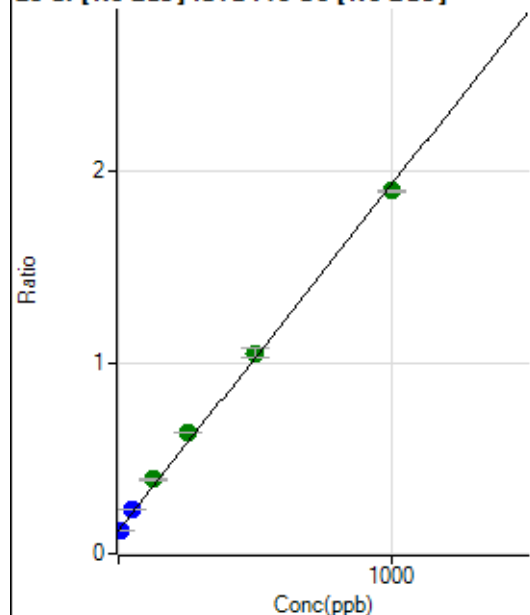
$$DL = 1.121$$

$$BEC = 9.457$$

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	532064.76	0.1217	P	3.8
2	☐	10.000	1.131	553007.51	0.1238	P	1.1
3	☐	50.000	62.104	1010003.22	0.2342	P	0.3
4	☐	125.000	148.341	1707247.68	0.3904	A	3.5
5	☐	250.000	282.673	2560130.60	0.6337	A	0.6
6	☐	500.000	512.482	4370176.22	1.0500	A	5.0
7	☐	1000.000	982.157	7442713.36	1.9008	A	0.6
8	☐			643204.75	0.1604	P	1.4

$$y = 0.0018 * x + 0.1217$$

R = 0.9989

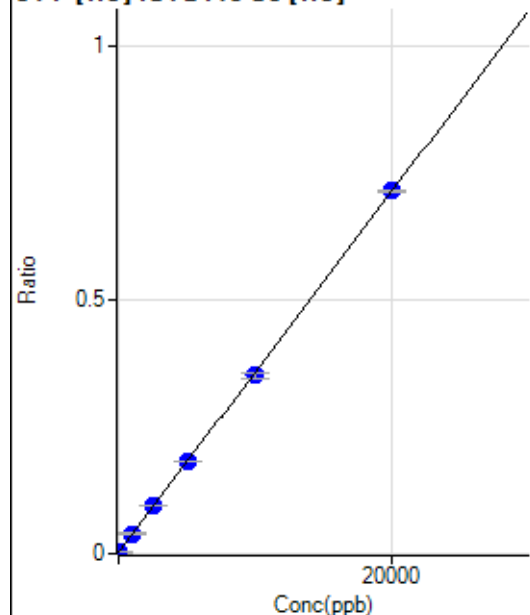
DL = 7.675

BEC = 67.2

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-11.057	545.57	0.0016	P	11.4
2	☐	0.000	11.057	817.81	0.0024	P	3.6
3	☐	1000.000	1060.583	12982.26	0.0396	P	2.5
4	☐	2500.000	2615.485	29970.48	0.0948	P	0.1
5	☐	5000.000	5065.569	55855.79	0.1818	P	0.6
6	☐	10000.000	9832.796	110419.74	0.3510	P	3.3
7	☐	20000.000	20049.745	220594.82	0.7137	P	0.3
8	☐			640.02	0.0021	P	7.0

$$y = 3.5497E-005 * x + 0.0020$$

R = 0.9999

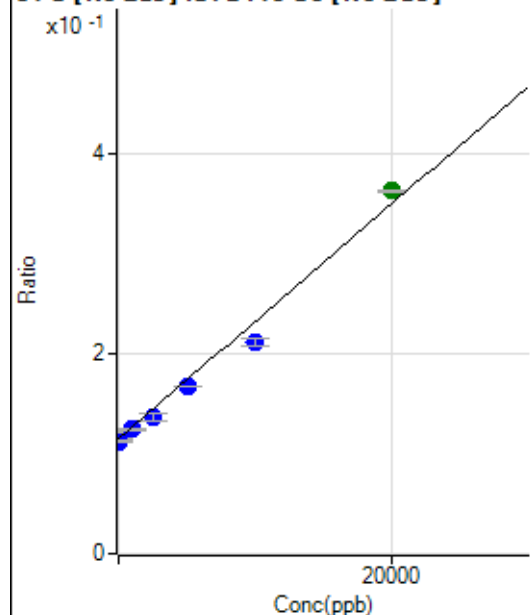
DL = 11.34

BEC = 56.14

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	222.603	513412.28	0.1175	P	4.8
2	☐	0.000	-222.603	501586.25	0.1123	P	1.9
3	☐	1000.000	813.407	536471.45	0.1244	P	1.0
4	☐	2500.000	1875.345	598145.90	0.1369	P	5.1
5	☐	5000.000	4465.229	675483.54	0.1672	P	0.3
6	☐	10000.000	8251.030	880797.61	0.2116	P	4.1
7	☐	20000.000	21095.589	1417906.85	0.3621	A	0.4
8	☐			440950.89	0.1099	P	1.4

$$y = 1.1719\text{E-}005 * x + 0.1149$$

$$R = 0.9940$$

$$DL = 1008$$

$$BEC = 9803$$

Weight: <None>

Min Conc: 0

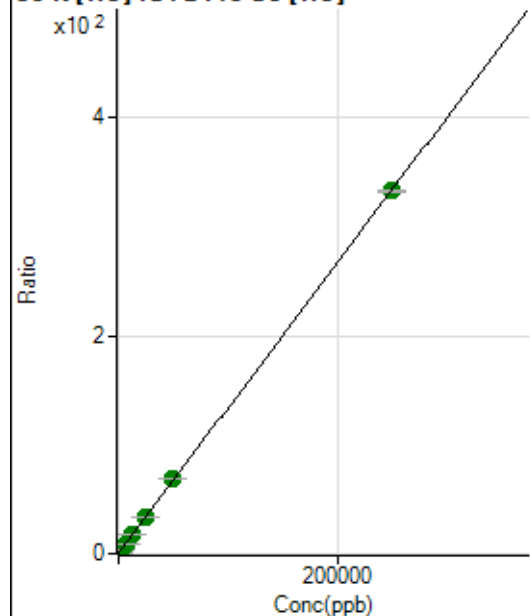
35 Cl [No Gas] No available calibration points



	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	98820.28	0.2898	P	2.2
2	☐	500.000	484.513	320444.92	0.9348	P	2.1
3	☐	2500.000	2691.832	1268471.08	3.8732	A	0.8
4	☐	6250.000	6528.680	2837928.64	8.9809	A	1.8
5	☐	12500.000	12741.597	5300321.31	17.2516	A	0.4
6	☐	25000.000	25158.264	10627191.23	33.7808	A	2.8
7	☐	50000.000	50920.148	21041449.69	68.0754	A	0.3
8	☐	250000.00	249779.21	103602449.5	332.7991	A	0.5

$$y = 0.0013 * x + 0.2898$$

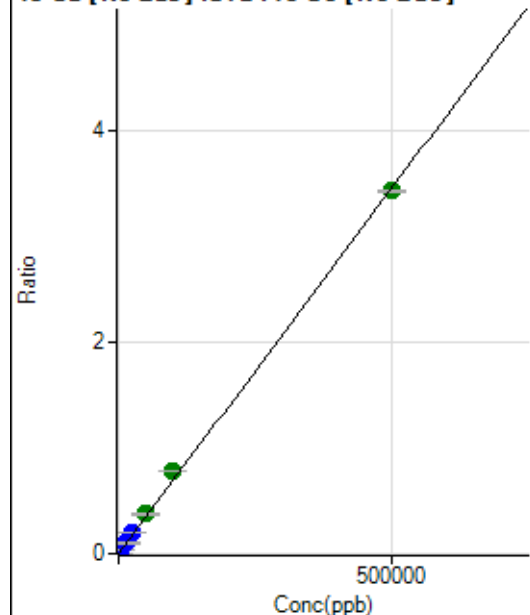
$$R = 1.0000$$

$$DL = 14.04$$

$$BEC = 217.7$$

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	1234.51	0.0003	P	8.3
2	☐	500.000	480.060	16098.61	0.0036	P	2.4
3	☐	5000.000	6104.647	183315.67	0.0425	P	0.1
4	☐	12500.000	14469.167	438599.34	0.1004	P	5.7
5	☐	25000.000	29289.293	819601.38	0.2029	P	0.3
6	☐	50000.000	54157.542	1560952.96	0.3749	A	3.8
7	☐	100000.00	112417.89	3045995.44	0.7779	A	0.6
8	☐	500000.00	496825.94	13785323.55	3.4370	A	0.3

$$y = 6.9174\text{E-}006 * x + 2.8274\text{E-}004$$

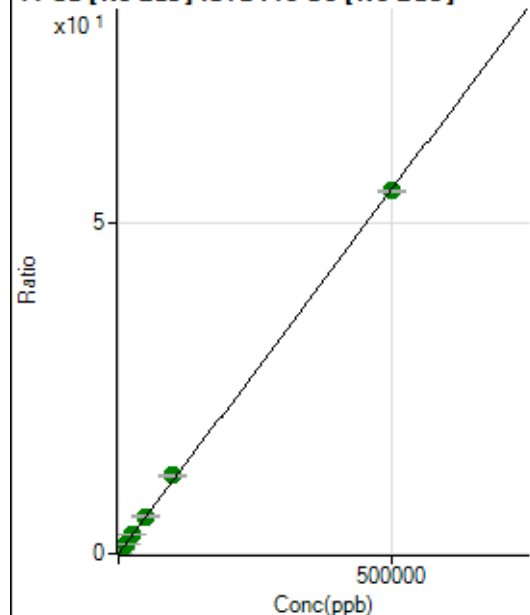
$$R = 0.9997$$

$$DL = 10.14$$

$$BEC = 40.87$$

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	26000.11	0.0059	P	4.3
2	☐	500.000	489.598	267716.88	0.0599	P	2.0
3	☐	5000.000	5504.352	2642488.94	0.6128	A	0.6
4	☐	12500.000	12952.100	6265375.11	1.4339	A	5.8
5	☐	25000.000	26518.766	11834295.66	2.9295	A	0.7
6	☐	50000.000	50689.767	23278755.49	5.5943	A	5.7
7	☐	100000.00	107395.67	46382848.20	11.8459	A	1.0
8	☐	500000.00	498359.61	220388745.6	54.9481	A	0.4

$$y = 1.1025\text{E-}004 * x + 0.0059$$

$$R = 0.9999$$

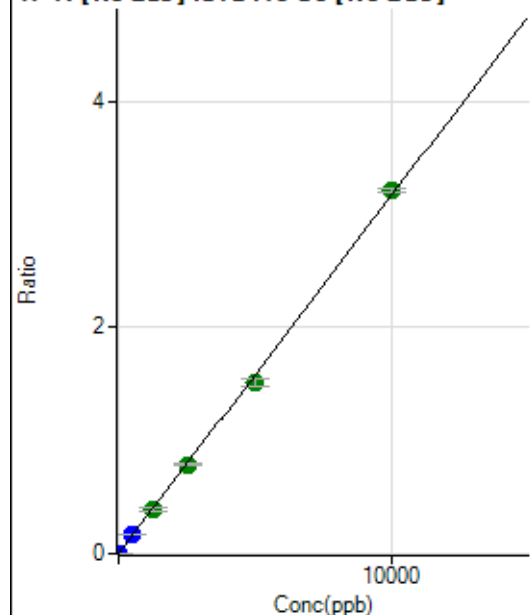
$$DL = 6.984$$

$$BEC = 53.96$$

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	142.23	0.0000	P	16.7
2	☐	5.000	4.749	6861.61	0.0015	P	3.8
3	☐	500.000	529.616	723082.87	0.1677	P	0.7
4	☐	1250.000	1238.369	1713059.30	0.3920	A	5.8
5	☐	2500.000	2487.880	3181551.83	0.7876	A	0.9
6	☐	5000.000	4753.223	6263582.96	1.5047	A	4.4
7	☐	10000.000	10126.392	12551629.40	3.2056	A	1.0
8	☐			3455.98	0.0009	P	8.7

$$y = 3.1656E-004 * x + 3.2640E-005$$

$$R = 0.9995$$

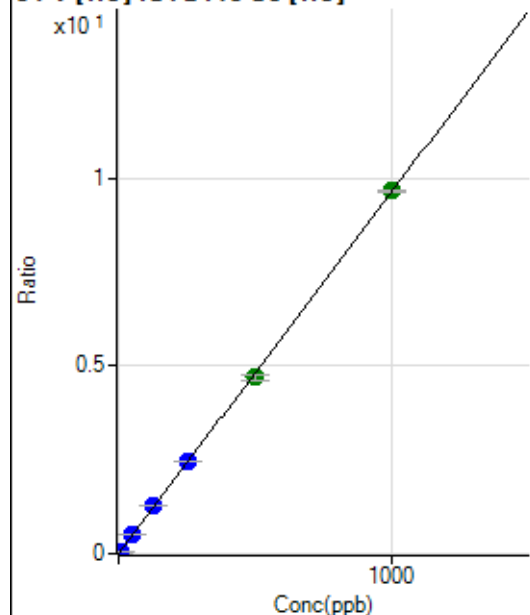
$$DL = 0.05178$$

$$BEC = 0.1031$$

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	20.00	0.0001	P	1.9
2	☐	5.000	4.760	15756.08	0.0460	P	1.3
3	☐	50.000	53.313	168359.39	0.5141	P	0.8
4	☐	125.000	131.550	400842.17	1.2684	P	0.7
5	☐	250.000	256.441	759613.29	2.4725	P	0.8
6	☐	500.000	487.904	1479761.40	4.7040	A	3.2
7	☐	1000.000	1003.454	2990360.82	9.6746	A	0.5
8	☐			1318.96	0.0042	P	1.6

$$y = 0.0096 * x + 5.8651E-005$$

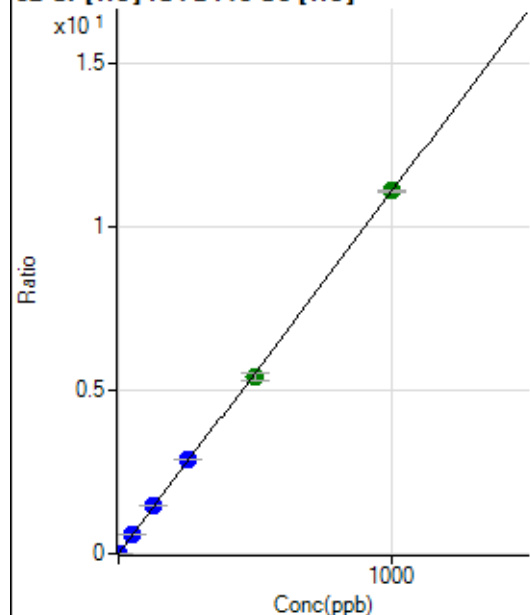
$$R = 0.9998$$

$$DL = 0.0003427$$

$$BEC = 0.006083$$

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	1555.65	0.0046	P	4.1
2	☐	2.000	1.965	9025.00	0.0263	P	4.5
3	☐	50.000	54.021	197534.45	0.6031	P	0.1
4	☐	125.000	133.428	468642.93	1.4830	P	0.9
5	☐	250.000	259.771	885729.47	2.8829	P	0.5
6	☐	500.000	488.592	1704389.56	5.4184	A	3.5
7	☐	1000.000	1002.007	3433187.83	11.1072	A	0.9
8	☐			76332.69	0.2452	P	0.5

$$y = 0.0111 * x + 0.0046$$

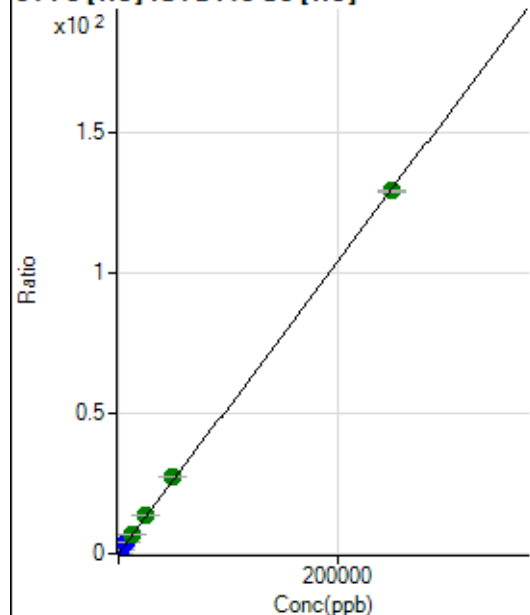
$$R = 0.9998$$

$$DL = 0.05008$$

$$BEC = 0.4114$$

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	1870.14	0.0055	P	2.7
2	☐	50.000	53.230	11334.34	0.0331	P	1.9
3	☐	2500.000	3030.773	516060.37	1.5757	P	0.4
4	☐	6250.000	7468.183	1224495.44	3.8746	P	0.6
5	☐	12500.000	13577.461	2162837.24	7.0398	A	1.2
6	☐	25000.000	26285.516	4285730.21	13.6236	A	3.0
7	☐	50000.000	53305.473	8537854.94	27.6223	A	0.1
8	☐	250000.00	249120.71	40180738.01	129.0715	A	0.5

$$y = 5.1809E-004 * x + 0.0055$$

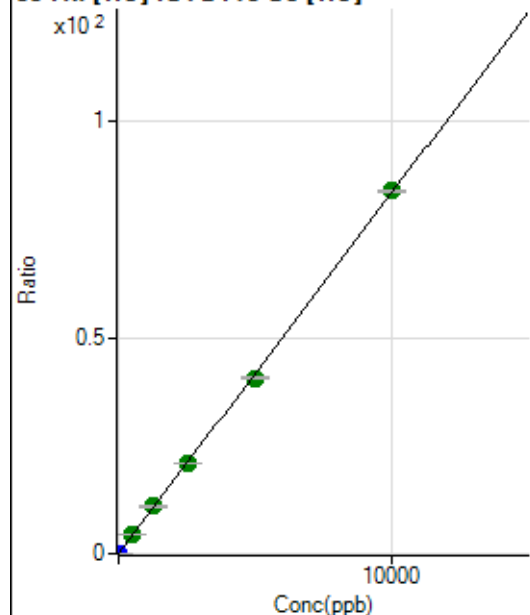
$$R = 0.9999$$

$$DL = 0.8538$$

$$BEC = 10.58$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	268.90	0.0008	P	6.4
2	☐	1.000	0.937	2951.43	0.0086	P	3.3
3	☐	500.000	527.865	1444241.70	4.4098	A	0.5
4	☐	1250.000	1305.600	3446573.07	10.9059	A	0.6
5	☐	2500.000	2514.561	6452964.77	21.0039	A	1.0
6	☐	5000.000	4869.800	12798993.84	40.6762	A	1.8
7	☐	10000.000	10053.117	25954475.17	83.9703	A	0.2
8	☐			24313.07	0.0781	P	0.6

$$y = 0.0084 * x + 7.8875E-004$$

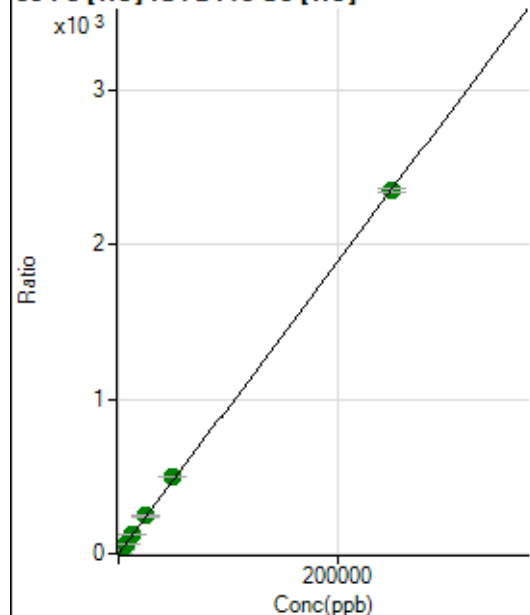
$$R = 0.9999$$

$$DL = 0.01821$$

$$BEC = 0.09443$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	10459.27	0.0307	P	0.3
2	☐	50.000	52.567	179962.01	0.5249	P	4.2
3	☐	2500.000	2764.605	8523158.42	26.0235	A	0.5
4	☐	6250.000	6845.325	20348585.53	64.3904	A	0.7
5	☐	12500.000	13295.361	38414334.15	125.0336	A	0.8
6	☐	25000.000	25791.865	76318633.86	242.5258	A	1.1
7	☐	50000.000	52659.927	153043304.3	495.1393	A	0.1
8	☐	250000.00	249331.53	729766211.3	2.344245	A	0.9

$$y = 0.0094 * x + 0.0307$$

$$R = 0.9999$$

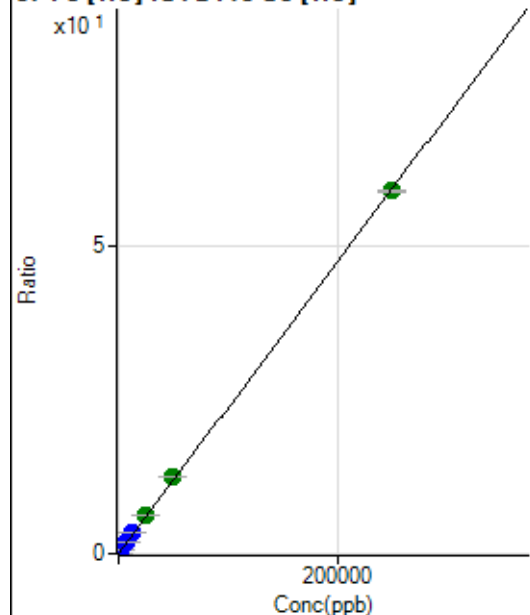
$$DL = 0.02777$$

$$BEC = 3.262$$

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	1031.16	0.0030	P	7.0
2	☐	50.000	54.094	5437.71	0.0159	P	1.8
3	☐	2500.000	2988.329	233240.94	0.7122	P	0.9
4	☐	6250.000	7302.372	548590.82	1.7359	P	1.0
5	☐	12500.000	14235.425	1038826.82	3.3812	P	0.3
6	☐	25000.000	26252.331	1961115.09	6.2329	A	2.3
7	☐	50000.000	53099.623	3895689.52	12.6039	A	1.0
8	☐	250000.00	249136.87	18405655.42	59.1247	A	0.6

$$y = 2.3731E-004 * x + 0.0030$$

R = 0.9999

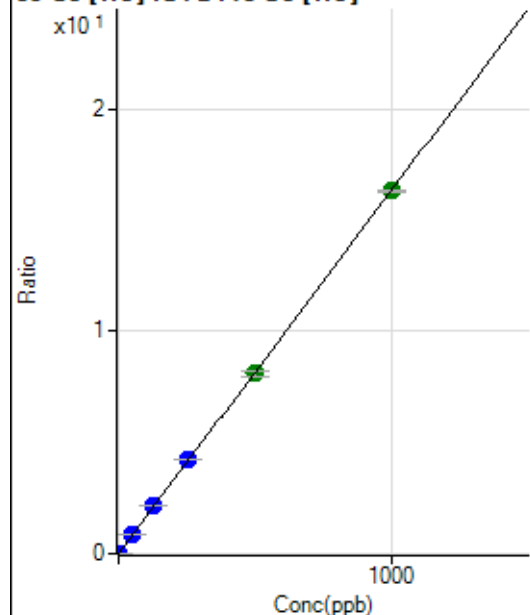
DL = 2.68

BEC = 12.75

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	1160.06	0.0034	P	7.8
2	☐	1.000	0.967	6577.06	0.0192	P	2.7
3	☐	50.000	54.823	294257.34	0.8985	P	0.4
4	☐	125.000	134.179	693355.51	2.1940	P	0.7
5	☐	250.000	259.759	1303984.52	4.2443	P	0.6
6	☐	500.000	495.220	2544498.00	8.0885	A	3.0
7	☐	1000.000	998.562	5040160.06	16.3062	A	0.4
8	☐			18177.75	0.0584	P	1.8

$$y = 0.0163 * x + 0.0034$$

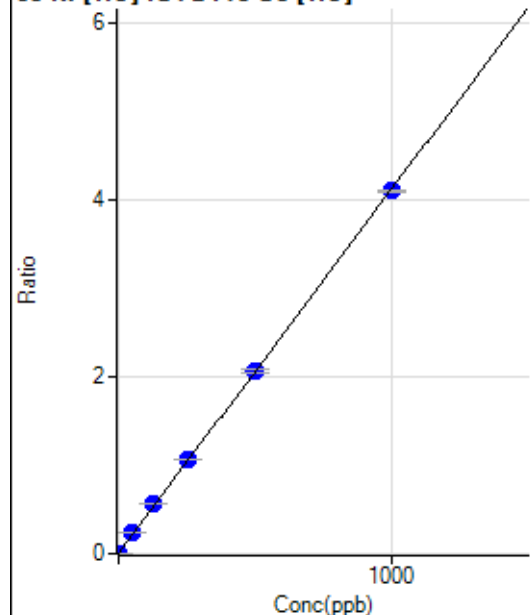
R = 0.9999

DL = 0.04861

BEC = 0.2082

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	1058.94	0.0031	P	2.1
2	☐	1.000	0.909	2347.99	0.0068	P	3.5
3	☐	50.000	54.887	75094.40	0.2293	P	0.5
4	☐	125.000	135.057	176873.71	0.5597	P	0.6
5	☐	250.000	259.842	329942.07	1.0739	P	0.5
6	☐	500.000	500.838	650268.41	2.0671	P	2.9
7	☐	1000.000	995.619	1269128.44	4.1060	P	0.7
8	☐			31400.67	0.1009	P	0.1

$$y = 0.0041 * x + 0.0031$$

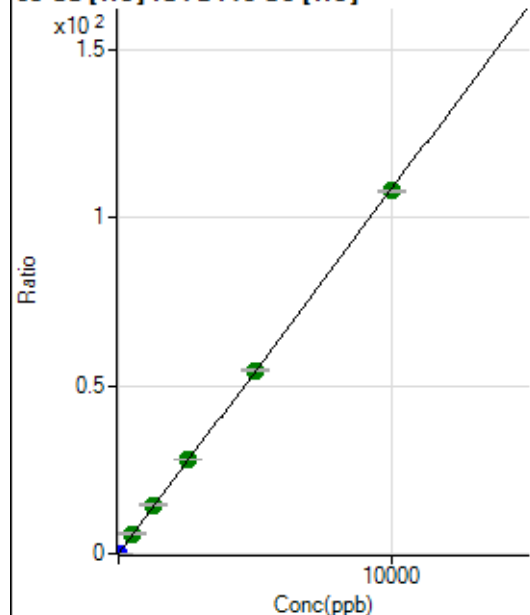
$$R = 0.9999$$

$$DL = 0.04765$$

$$BEC = 0.7534$$

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	1316.74	0.0039	P	6.5
2	☐	2.000	1.998	8758.20	0.0255	P	2.0
3	☐	500.000	552.318	1964297.61	5.9977	A	0.8
4	☐	1250.000	1342.700	4606208.61	14.5751	A	0.9
5	☐	2500.000	2592.732	8645840.91	28.1407	A	0.7
6	☐	5000.000	5028.326	17172623.63	54.5723	A	1.2
7	☐	10000.000	9948.451	33371907.00	107.9664	A	0.6
8	☐			25121.18	0.0807	P	1.8

$$y = 0.0109 * x + 0.0039$$

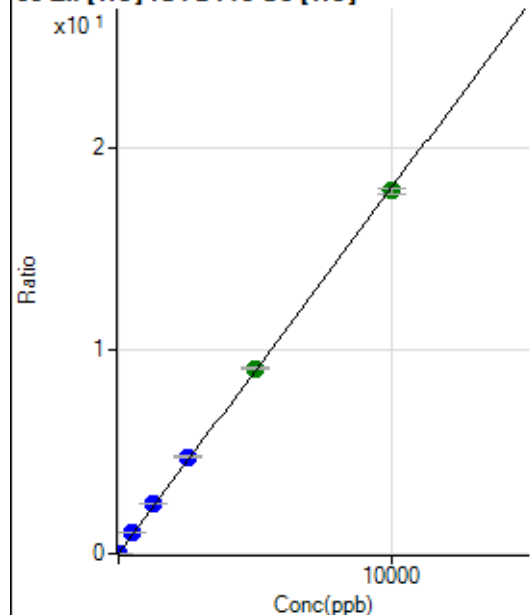
$$R = 0.9999$$

$$DL = 0.06945$$

$$BEC = 0.3559$$

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	2204.63	0.0065	P	5.7
2	☐	5.000	2.832	3963.90	0.0116	P	3.9
3	☐	500.000	553.926	328687.92	1.0036	P	0.8
4	☐	1250.000	1362.260	777024.93	2.4587	P	0.7
5	☐	2500.000	2640.581	1462380.64	4.7599	P	0.9
6	☐	5000.000	5061.296	2869265.90	9.1176	A	0.9
7	☐	10000.000	9917.479	5520138.53	17.8595	A	1.4
8	☐			8379.10	0.0269	P	2.7

$$y = 0.0018 * x + 0.0065$$

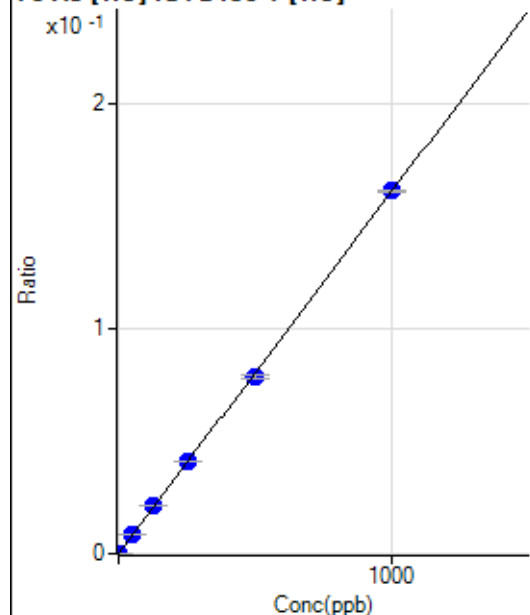
$$R = 0.9998$$

$$DL = 0.619$$

$$BEC = 3.593$$

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	4.45	0.0000	P	86.6
2	☐	1.000	0.958	382.23	0.0002	P	9.0
3	☐	50.000	52.835	20305.07	0.0085	P	2.1
4	☐	125.000	132.068	48922.47	0.0212	P	0.9
5	☐	250.000	254.314	92766.17	0.0409	P	0.4
6	☐	500.000	490.175	185604.11	0.0788	P	2.2
7	☐	1000.000	1002.809	370058.87	0.1612	P	0.5
8	☐			293.34	0.0001	P	8.0

$$y = 1.6077E-004 * x + 1.8090E-006$$

$$R = 0.9999$$

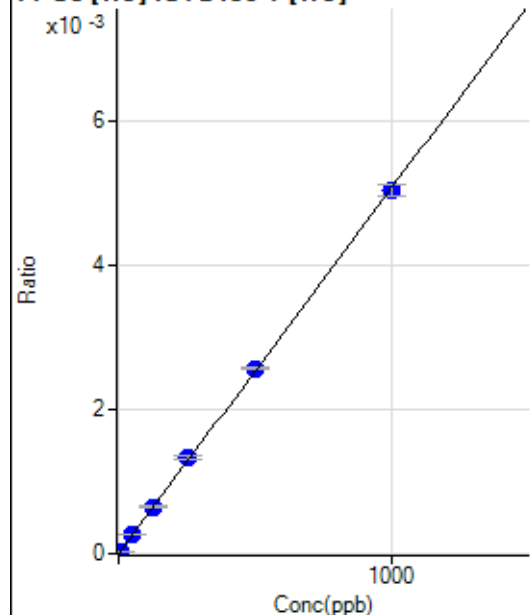
$$DL = 0.02924$$

$$BEC = 0.01125$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	4.649	57.78	0.0000	P	13.4
3	☐	50.000	52.925	641.13	0.0003	P	3.1
4	☐	125.000	127.928	1493.43	0.0006	P	4.4
5	☐	250.000	264.731	3043.68	0.0013	P	3.4
6	☐	500.000	506.417	6046.85	0.0026	P	1.5
7	☐	1000.000	992.598	11547.92	0.0050	P	3.2
8	☐			5.56	0.0000	P	34.2

$$y = 5.0689\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9998$$

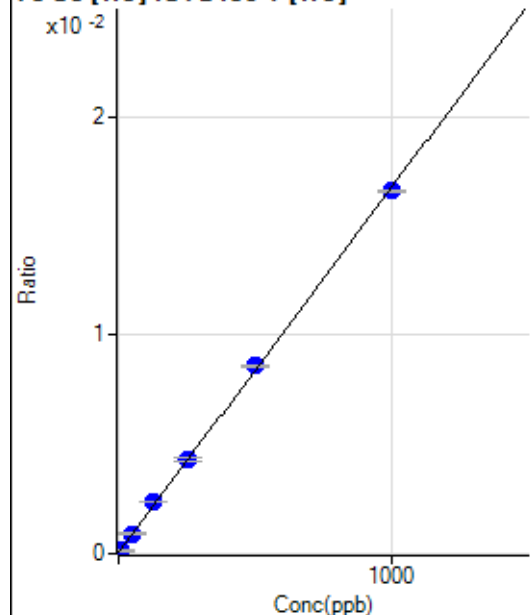
$$DL = 0$$

$$BEC = 0$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	115.56	0.0000	P	8.5
2	☐	5.000	5.239	330.01	0.0001	P	10.9
3	☐	50.000	51.373	2165.74	0.0009	P	7.1
4	☐	125.000	137.259	5396.59	0.0023	P	0.3
5	☐	250.000	255.461	9796.64	0.0043	P	3.7
6	☐	500.000	512.123	20287.33	0.0086	P	1.3
7	☐	1000.000	990.971	38150.20	0.0166	P	0.5
8	☐			148.89	0.0001	P	7.3

$$y = 1.6724\text{E-}005 * x + 4.6890\text{E-}005$$

$$R = 0.9998$$

$$DL = 0.714$$

$$BEC = 2.804$$

Weight: <None>

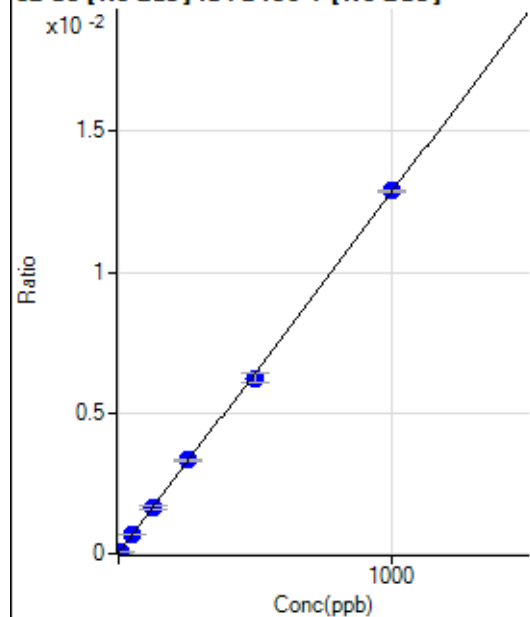
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			19731.07		P	2.2
2	☐			19075.77		P	2.1
3	☐			18809.88		P	1.1
4	☐			18229.15		P	3.9
5	☐			16975.46		P	1.3
6	☐			17191.25		P	1.2
7	☐			17862.03		P	1.5
8	☐			18542.89		P	0.5

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			118.89		P	20.7
2	☐			118.89		P	13.8
3	☐			81.11		P	6.3
4	☐			77.78		P	47.8
5	☐			62.22		P	3.1
6	☐			66.66		P	22.9
7	☐			77.78		P	12.4
8	☐			94.44		P	12.4

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	151.15	0.0000	P	22.8
2	☐	5.000	4.765	882.09	0.0001	P	2.1
3	☐	50.000	54.074	8198.94	0.0007	P	1.1
4	☐	125.000	126.314	19468.93	0.0016	P	5.9
5	☐	250.000	257.726	37132.06	0.0033	P	0.9
6	☐	500.000	486.322	72286.65	0.0062	P	5.5
7	☐	1000.000	1004.541	142259.33	0.0129	P	0.4
8	☐			203.54	0.0000	P	9.5

$$y = 1.2817\text{E-}005 * x + 1.2939\text{E-}005$$

$$R = 0.9998$$

$$DL = 0.6908$$

$$BEC = 1.01$$

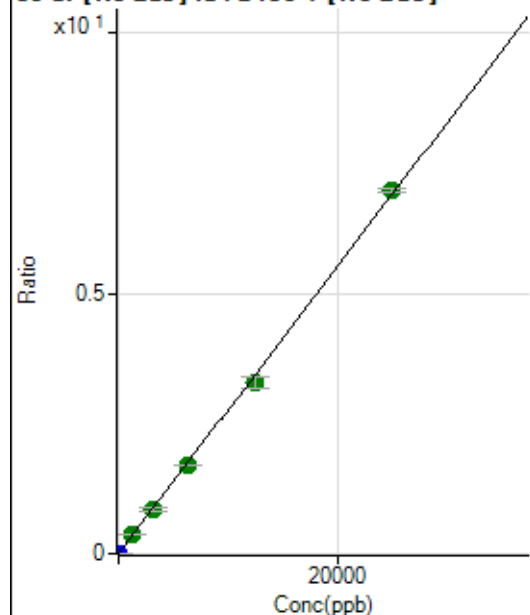
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			145.56		P	17.5
2	☐			142.23		P	15.1
3	☐			132.23		P	15.2
4	☐			144.45		P	19.2
5	☐			106.67		P	5.4
6	☐			154.45		P	14.4
7	☐			148.89		P	14.9
8	☐			168.89		P	9.3

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	312.23	0.0000	P	6.4
2	☐	1.000	0.905	3291.52	0.0003	P	3.4
3	☐	1250.000	1306.542	4180810.84	0.3600	A	0.5
4	☐	3125.000	3076.925	10115576.52	0.8477	A	5.5
5	☐	6250.000	6206.968	19148718.19	1.7101	A	0.7
6	☐	12500.000	11916.581	37987723.88	3.2831	A	6.2
7	☐	25000.000	25305.650	76956958.30	6.9719	A	1.0
8	☐			16811.99	0.0015	P	12.3

$$y = 2.7551\text{E-}004 * x + 2.6765\text{E-}005$$

$$R = 0.9996$$

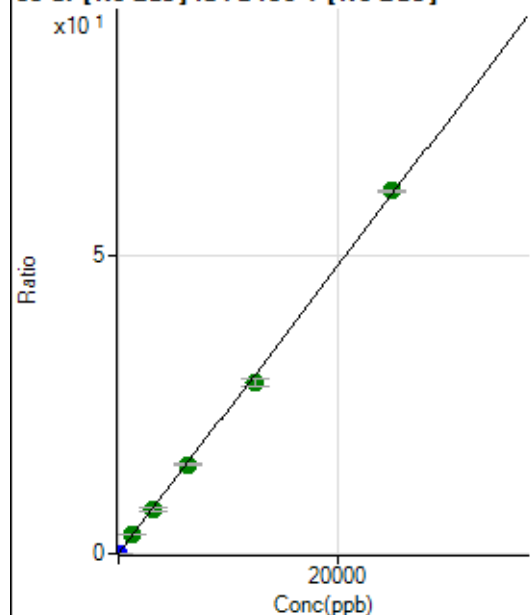
$$DL = 0.01871$$

$$BEC = 0.09715$$

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	851.14	0.0001	P	9.0
2	☐	1.000	0.958	28339.53	0.0024	P	0.8
3	☐	1250.000	1300.819	36356949.18	3.1305	A	1.2
4	☐	3125.000	3078.542	88391800.91	7.4086	A	5.8
5	☐	6250.000	6216.912	167522018.6	14.9610	A	1.1
6	☐	12500.000	11957.624	333101912.8	28.7760	A	4.9
7	☐	25000.000	25282.726	671598021.1	60.8427	A	0.6
8	☐			145885.78	0.0134	P	12.5

$$y = 0.0024 * x + 7.3011\text{E-}005$$

$$R = 0.9996$$

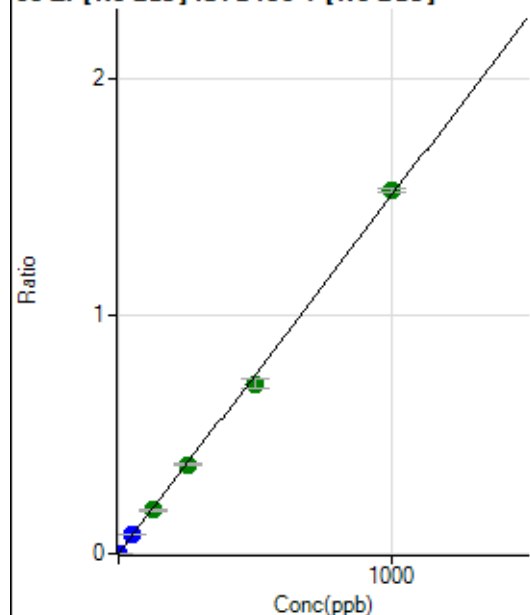
$$DL = 0.008175$$

$$BEC = 0.03034$$

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	526.68	0.0000	P	11.1
2	☐	1.000	0.908	16819.71	0.0014	P	1.7
3	☐	50.000	52.576	919475.33	0.0792	P	0.7
4	☐	125.000	122.424	2199294.90	0.1843	A	5.1
5	☐	250.000	248.995	4196464.80	0.3748	A	1.1
6	☐	500.000	474.524	8266081.27	0.7142	A	5.4
7	☐	1000.000	1013.183	16831849.19	1.5249	A	0.9
8	☐			9178.50	0.0008	P	3.0

$$y = 0.0015 * x + 4.5218E-005$$

$$R = 0.9995$$

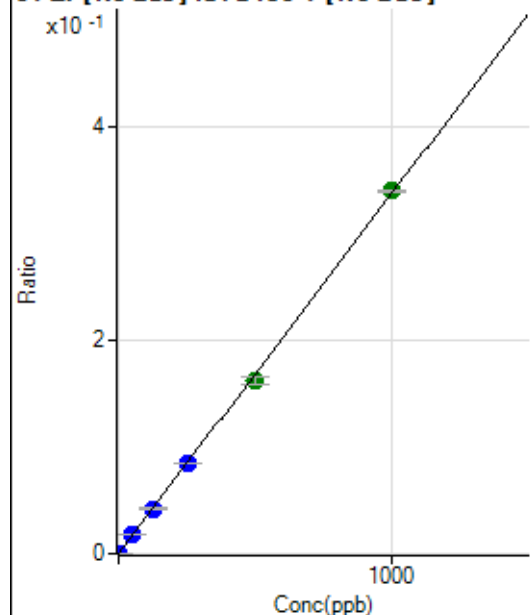
$$DL = 0.009979$$

$$BEC = 0.03005$$

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	103.33	0.0000	P	3.3
2	☐	1.000	0.889	3673.83	0.0003	P	3.9
3	☐	50.000	52.275	204662.07	0.0176	P	0.9
4	☐	125.000	124.377	500120.39	0.0419	P	5.7
5	☐	250.000	252.677	953405.78	0.0851	P	0.9
6	☐	500.000	481.623	1878528.58	0.1623	A	5.0
7	☐	1000.000	1008.484	3750869.53	0.3398	A	0.8
8	☐			2125.73	0.0002	P	7.6

$$y = 3.3694E-004 * x + 8.8558E-006$$

$$R = 0.9997$$

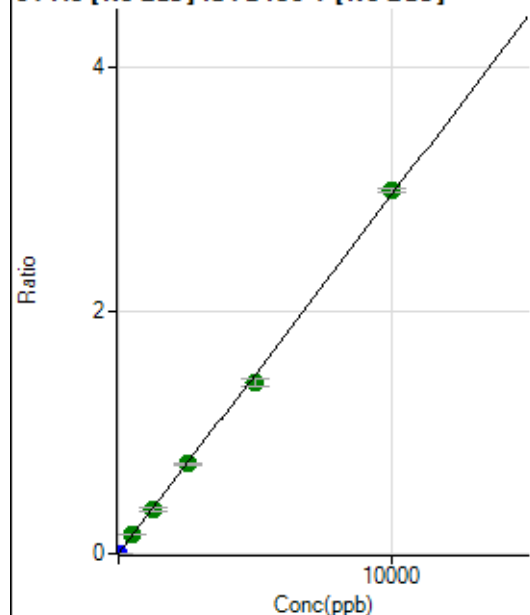
$$DL = 0.002599$$

$$BEC = 0.02628$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	173.34	0.0000	P	12.1
2	☐	5.000	5.533	19638.80	0.0016	P	1.3
3	☐	500.000	524.473	1797404.94	0.1548	A	1.2
4	☐	1250.000	1231.735	4336704.59	0.3635	A	5.7
5	☐	2500.000	2497.199	8250557.58	0.7368	A	1.3
6	☐	5000.000	4770.729	16297712.81	1.4077	A	4.4
7	☐	10000.000	10116.395	32948986.45	2.9850	A	1.0
8	☐			17848.78	0.0016	P	4.3

$$y = 2.9506\text{E-}004 * x + 1.4835\text{E-}005$$

$$R = 0.9996$$

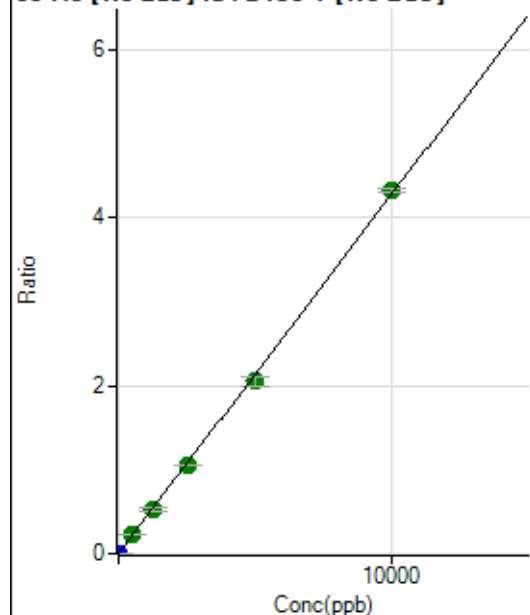
$$DL = 0.01829$$

$$BEC = 0.05028$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	64.45	0.0000	P	37.5
2	☐	5.000	4.610	23538.96	0.0020	P	0.9
3	☐	500.000	525.732	2607938.54	0.2246	A	0.4
4	☐	1250.000	1232.714	6280325.53	0.5265	A	6.4
5	☐	2500.000	2482.635	11873522.18	1.0604	A	0.4
6	☐	5000.000	4806.519	23758452.14	2.0529	A	5.6
7	☐	10000.000	10101.956	47625924.29	4.3146	A	0.9
8	☐			25485.65	0.0023	P	5.5

$$y = 4.2711\text{E-}004 * x + 5.5243\text{E-}006$$

$$R = 0.9997$$

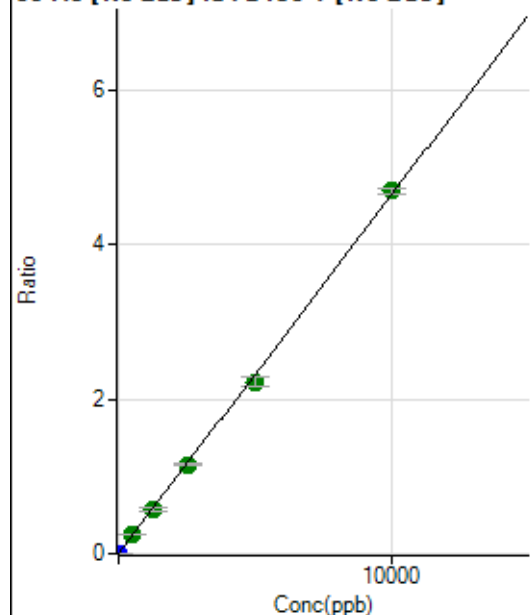
$$DL = 0.01453$$

$$BEC = 0.01293$$

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	120.00	0.0000	P	4.7
2	☐	5.000	4.697	26155.66	0.0022	P	1.5
3	☐	500.000	523.465	2827262.39	0.2434	A	1.2
4	☐	1250.000	1228.981	6818584.14	0.5715	A	6.0
5	☐	2500.000	2490.550	12968674.67	1.1582	A	1.4
6	☐	5000.000	4787.788	25767774.89	2.2265	A	5.6
7	☐	10000.000	10109.922	51896656.45	4.7016	A	1.5
8	☐			31835.84	0.0029	P	4.1

$$y = 4.6504\text{E-}004 * x + 1.0268\text{E-}005$$

$$R = 0.9997$$

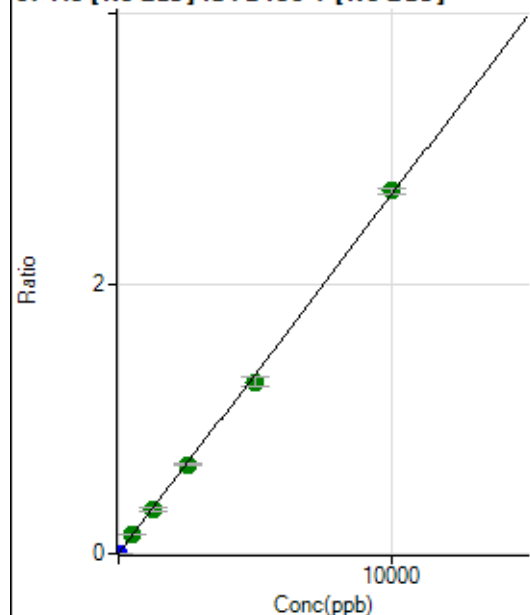
$$DL = 0.00314$$

$$BEC = 0.02208$$

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	57.78	0.0000	P	31.2
2	☐	5.000	4.569	14541.78	0.0012	P	1.7
3	☐	500.000	527.038	1627855.86	0.1402	A	1.1
4	☐	1250.000	1241.287	3938239.91	0.3301	A	6.0
5	☐	2500.000	2486.717	7404864.54	0.6613	A	0.7
6	☐	5000.000	4792.916	14753211.59	1.2746	A	5.1
7	☐	10000.000	10106.600	29666751.50	2.6877	A	1.3
8	☐			15855.40	0.0015	P	5.0

$$y = 2.6593\text{E-}004 * x + 4.9688\text{E-}006$$

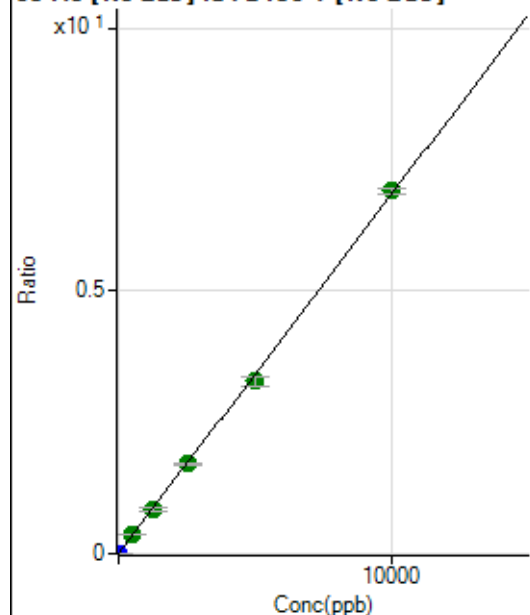
$$R = 0.9997$$

$$DL = 0.01747$$

$$BEC = 0.01868$$

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	14.1
2	☐	5.000	4.654	38050.54	0.0032	P	3.2
3	☐	500.000	519.951	4130220.18	0.3556	A	0.2
4	☐	1250.000	1233.358	10063721.24	0.8436	A	6.0
5	☐	2500.000	2501.064	19153487.08	1.7106	A	1.4
6	☐	5000.000	4808.605	38058826.93	3.2888	A	5.8
7	☐	10000.000	10096.514	76223033.31	6.9054	A	1.4
8	☐			40267.69	0.0037	P	5.1

$$y = 6.8394\text{E-}004 * x + 9.8141\text{E-}006$$

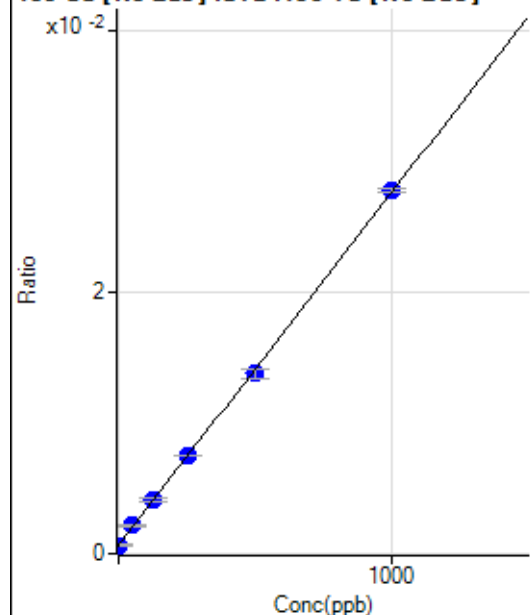
$$R = 0.9997$$

$$DL = 0.006091$$

$$BEC = 0.01435$$

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	6619.35	0.0007	P	1.3
2	☐	1.000	0.249	6843.91	0.0007	P	3.5
3	☐	50.000	54.990	21839.83	0.0021	P	1.0
4	☐	125.000	128.578	43580.71	0.0041	P	5.2
5	☐	250.000	254.304	76234.15	0.0075	P	1.1
6	☐	500.000	486.436	144948.90	0.0138	P	5.4
7	☐	1000.000	1005.010	276920.59	0.0278	P	1.2
8	☐			6037.99	0.0006	P	1.5

$$y = 2.6993\text{E-}005 * x + 6.5506\text{E-}004$$

$$R = 0.9998$$

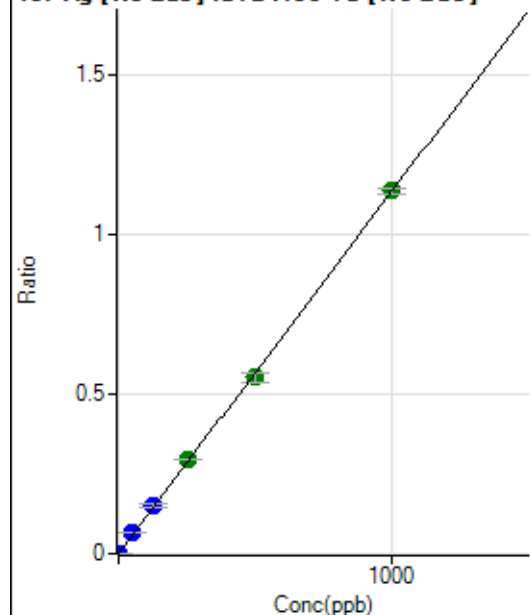
$$DL = 0.9754$$

$$BEC = 24.27$$

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	76.67	0.0000	P	19.5
2	☐	1.000	0.972	11459.06	0.0011	P	2.3
3	☐	50.000	57.190	661376.22	0.0648	P	0.6
4	☐	125.000	133.025	1591420.69	0.1507	P	5.0
5	☐	250.000	259.277	2977387.84	0.2937	A	0.3
6	☐	500.000	486.795	5796572.41	0.5514	A	6.0
7	☐	1000.000	1002.921	11322199.14	1.1360	A	1.8
8	☐			2930.33	0.0003	P	12.5

$$y = 0.0011 * x + 7.5903E-006$$

$$R = 0.9998$$

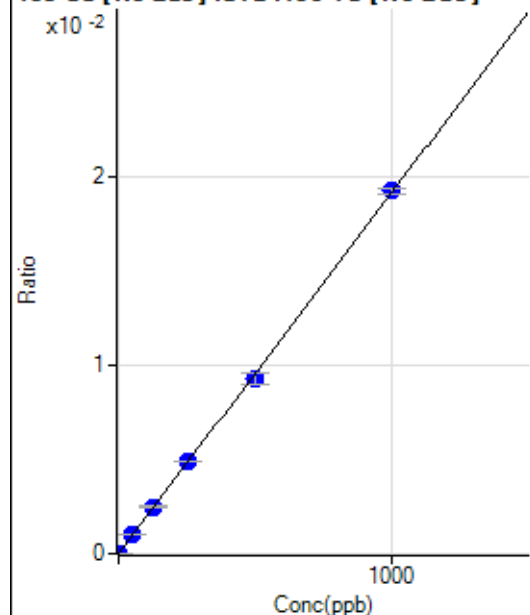
$$DL = 0.003917$$

$$BEC = 0.006701$$

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	26.67	0.0000	P	32.9
2	☐	1.000	1.102	245.56	0.0000	P	3.6
3	☐	50.000	54.745	10737.40	0.0011	P	3.5
4	☐	125.000	129.327	26203.72	0.0025	P	4.6
5	☐	250.000	256.653	49885.35	0.0049	P	0.8
6	☐	500.000	484.825	97701.69	0.0093	P	5.7
7	☐	1000.000	1005.146	191996.06	0.0193	P	1.4
8	☐			203.34	0.0000	P	8.0

$$y = 1.9162E-005 * x + 2.6426E-006$$

$$R = 0.9998$$

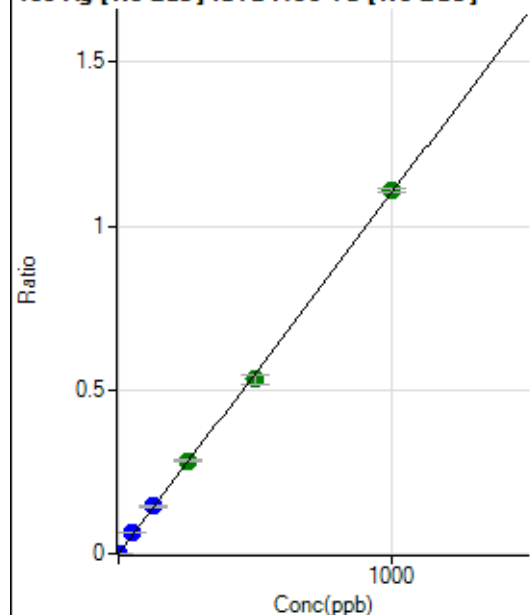
$$DL = 0.136$$

$$BEC = 0.1379$$

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	25.55	0.0000	P	11.7
2	☐	1.000	0.979	11169.95	0.0011	P	2.6
3	☐	50.000	56.472	634603.02	0.0622	P	1.1
4	☐	125.000	132.343	1538630.90	0.1457	P	4.9
5	☐	250.000	257.850	2877385.27	0.2838	A	1.1
6	☐	500.000	482.429	5584224.78	0.5310	A	5.1
7	☐	1000.000	1005.582	11032812.47	1.1069	A	1.0
8	☐			2816.98	0.0003	P	17.5

$$y = 0.0011 * x + 2.5233E-006$$

$$R = 0.9997$$

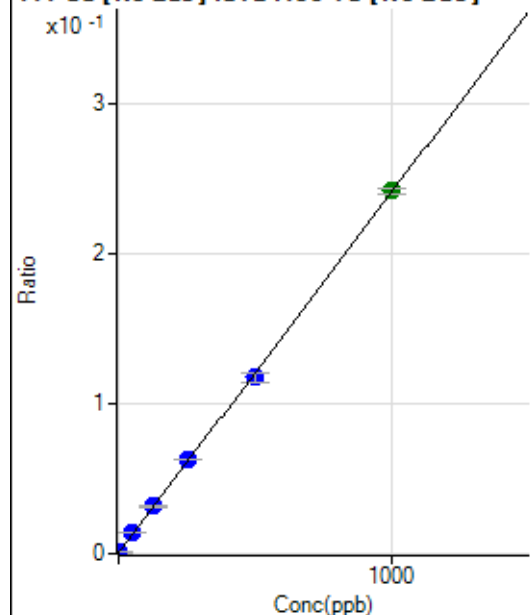
$$DL = 0.0008023$$

$$BEC = 0.002292$$

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	4644.88	0.0005	P	1.1
2	☐	1.000	0.928	7055.74	0.0007	P	1.5
3	☐	50.000	55.480	140625.44	0.0138	P	0.5
4	☐	125.000	129.640	333489.07	0.0316	P	4.8
5	☐	250.000	257.697	631679.81	0.0623	P	0.2
6	☐	500.000	486.335	1232229.47	0.1172	P	5.1
7	☐	1000.000	1004.054	2406447.23	0.2414	A	1.2
8	☐			4678.72	0.0005	P	1.2

$$y = 2.4001E-004 * x + 4.5965E-004$$

$$R = 0.9998$$

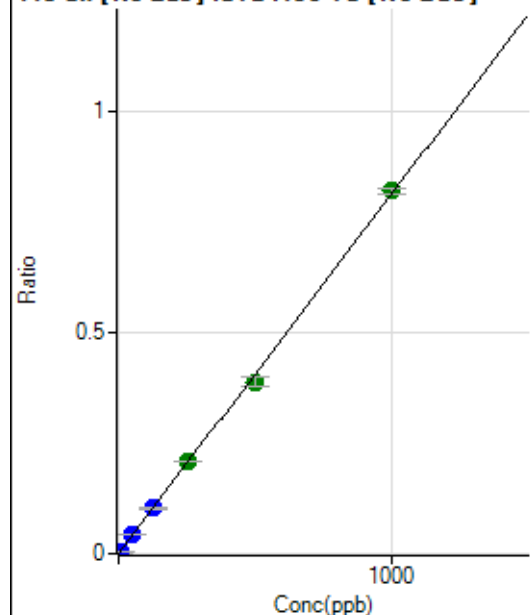
$$DL = 0.06463$$

$$BEC = 1.915$$

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	1965.71	0.0002	P	2.9
2	☐	5.000	4.769	42125.91	0.0041	P	2.0
3	☐	50.000	53.966	450273.44	0.0441	P	0.6
4	☐	125.000	126.706	1090856.19	0.1033	P	5.3
5	☐	250.000	256.450	2117463.50	0.2089	A	1.1
6	☐	500.000	478.173	4093526.71	0.3893	A	5.1
7	☐	1000.000	1008.891	8184241.40	0.8211	A	1.5
8	☐			12307.59	0.0013	P	1.8

$$y = 8.1372\text{E-}004 * x + 1.9469\text{E-}004$$

$$R = 0.9996$$

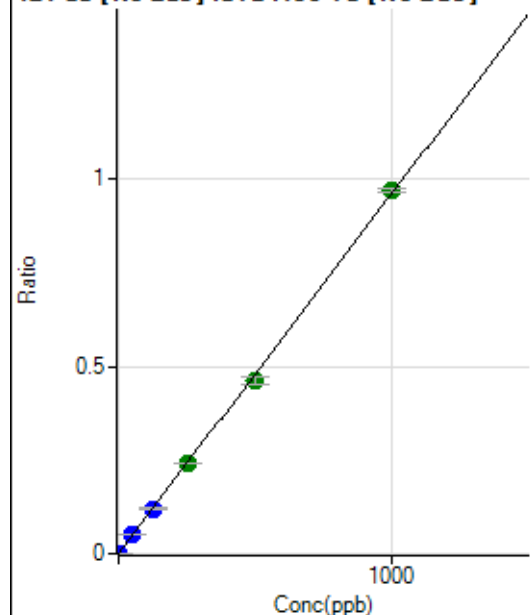
$$DL = 0.02102$$

$$BEC = 0.2393$$

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	92.22	0.0000	P	22.8
2	☐	2.000	1.932	19288.55	0.0019	P	1.9
3	☐	50.000	52.622	516223.89	0.0506	P	1.0
4	☐	125.000	125.048	1268936.08	0.1202	P	5.2
5	☐	250.000	250.448	2439610.31	0.2406	A	0.9
6	☐	500.000	482.272	4872858.82	0.4634	A	5.0
7	☐	1000.000	1008.615	9659015.69	0.9691	A	1.2
8	☐			7507.58	0.0008	P	4.4

$$y = 9.6082\text{E-}004 * x + 9.1891\text{E-}006$$

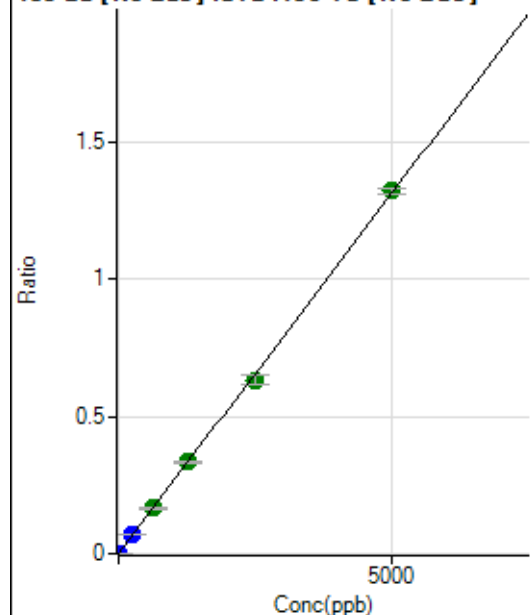
$$R = 0.9998$$

$$DL = 0.006546$$

$$BEC = 0.009564$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	112.22	0.0000	P	2.8
2	☐	10.000	9.081	24707.03	0.0024	P	2.8
3	☐	250.000	260.451	696689.21	0.0682	P	0.6
4	☐	625.000	636.219	1761072.27	0.1667	A	4.1
5	☐	1250.000	1272.530	3379857.45	0.3334	A	0.8
6	☐	2500.000	2407.346	6631145.11	0.6307	A	5.6
7	☐	5000.000	5038.771	13157077.16	1.3201	A	1.7
8	☐			6285.89	0.0007	P	4.1

$$y = 2.6199\text{E-}004 * x + 1.1102\text{E-}005$$

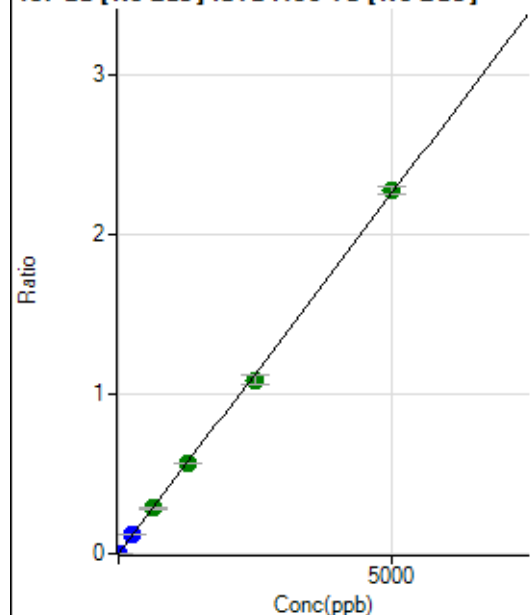
$$R = 0.9997$$

$$DL = 0.003553$$

$$BEC = 0.04238$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	168.89	0.0000	P	17.7
2	☐	10.000	9.309	43527.51	0.0042	P	1.0
3	☐	250.000	262.028	1205163.31	0.1181	P	0.6
4	☐	625.000	632.777	3010601.97	0.2851	A	5.1
5	☐	1250.000	1260.617	5757179.77	0.5679	A	0.7
6	☐	2500.000	2413.689	11435089.13	1.0873	A	4.8
7	☐	5000.000	5038.929	22623725.49	2.2700	A	2.1
8	☐			11282.35	0.0012	P	2.5

$$y = 4.5048\text{E-}004 * x + 1.6747\text{E-}005$$

$$R = 0.9998$$

$$DL = 0.01972$$

$$BEC = 0.03717$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			21.11		P	50.8
2	☐			11.11		P	105.
3	☐			90.00		P	17.0
4	☐			261.11		P	9.1
5	☐			442.24		P	2.2
6	☐			950.04		P	5.5
7	☐			1886.82		P	1.7
8	☐			260.01		P	5.6

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	86.6
2	☐			2.22		P	86.6
3	☐			24.44		P	34.3
4	☐			28.89		P	17.6
5	☐			72.22		P	14.8
6	☐			138.89		P	15.6
7	☐			318.90		P	12.0
8	☐			111.11		P	1.7

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.55		P	124.
2	☐			10.00		P	57.8
3	☐			22.22		P	8.7
4	☐			42.22		P	43.5
5	☐			105.55		P	20.1
6	☐			176.67		P	19.6
7	☐			388.90		P	10.4
8	☐			411.12		P	8.9

156 Dy [He] No available calibration points

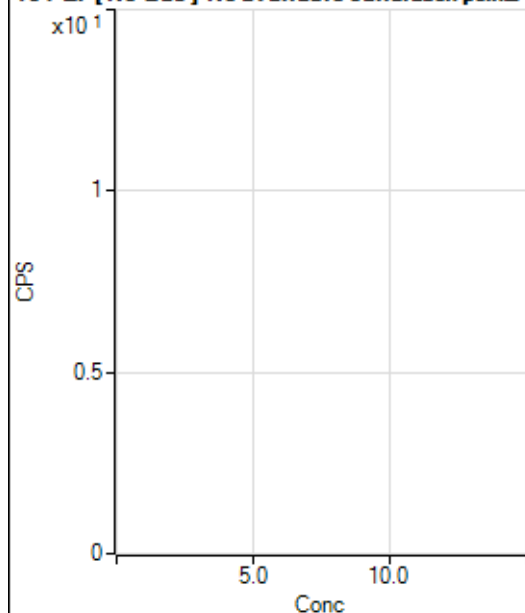
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.45		P	86.6
2	☐			7.78		P	89.2
3	☐			54.44		P	23.2
4	☐			115.56		P	21.7
5	☐			223.34		P	10.4
6	☐			424.45		P	8.2
7	☐			883.37		P	11.5
8	☐			290.01		P	11.9

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

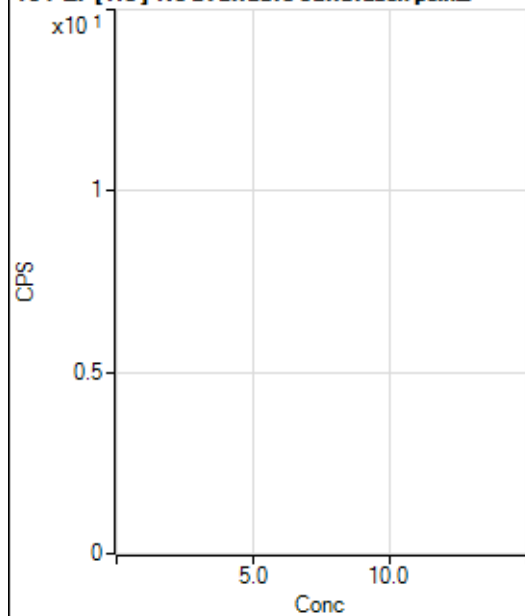
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			71.11		P	11.8
2	☐			54.44		P	25.5
3	☐			65.55		P	38.8
4	☐			86.66		P	17.6
5	☐			92.22		P	19.9
6	☐			126.67		P	14.7
7	☐			216.67		P	8.6
8	☐			332.23		P	12.6

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			500.01		P	13.1
2	☐			476.68		P	12.8
3	☐			532.24		P	7.3
4	☐			500.02		P	2.4
5	☐			492.24		P	11.2
6	☐			512.24		P	16.5
7	☐			551.13		P	6.6
8	☐			603.35		P	5.3

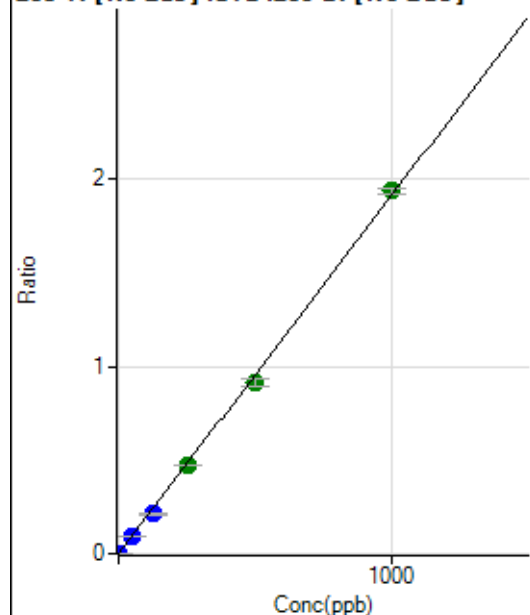
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			108.89		P	12.4
2	☐			90.00		P	23.1
3	☐			67.78		P	32.7
4	☐			77.78		P	2.5
5	☐			93.33		P	9.5
6	☐			167.78		P	25.9
7	☐			193.34		P	17.9
8	☐			424.46		P	14.6

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			28.89		P	13.3
2	☐			40.00		P	50.7
3	☐			37.78		P	35.7
4	☐			48.89		P	15.7
5	☐			52.22		P	3.7
6	☐			83.33		P	12.0
7	☐			116.67		P	18.7
8	☐			218.89		P	7.7

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	494.46	0.0001	P	6.5
2	☐	1.000	0.814	10101.61	0.0016	P	4.0
3	☐	50.000	47.320	553220.14	0.0905	P	2.3
4	☐	125.000	112.561	1369077.96	0.2152	P	4.7
5	☐	250.000	248.438	2917878.81	0.4748	A	0.5
6	☐	500.000	478.066	5760724.43	0.9136	A	4.7
7	☐	1000.000	1013.046	10878414.14	1.9358	A	1.5
8	☐			3857.25	0.0008	P	12.5

$$y = 0.0019 * x + 8.0230E-005$$

$$R = 0.9996$$

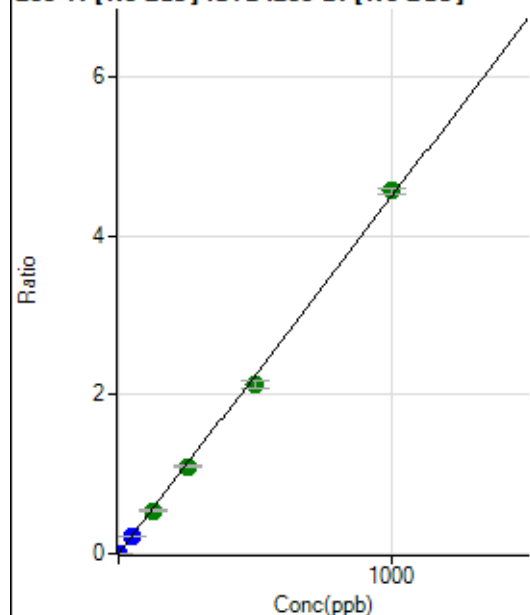
$$DL = 0.008221$$

$$BEC = 0.04199$$

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	1293.41	0.0002	P	12.0
2	☐	1.000	0.816	23933.43	0.0039	P	4.4
3	☐	50.000	47.172	1296357.91	0.2120	P	1.0
4	☐	125.000	119.430	3413380.85	0.5365	A	5.2
5	☐	250.000	244.318	6743528.51	1.0974	A	0.9
6	☐	500.000	472.475	13382491.61	2.1220	A	4.2
7	☐	1000.000	1016.021	25641096.56	4.5629	A	1.7
8	☐			8995.34	0.0019	P	10.6

$$y = 0.0045 * x + 2.0995E-004$$

$$R = 0.9994$$

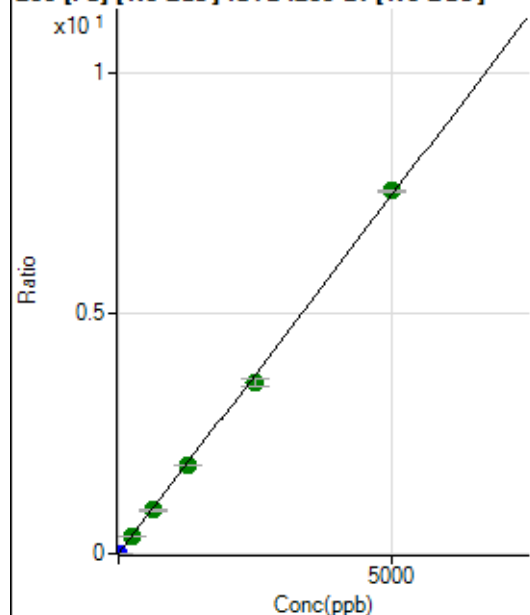
$$DL = 0.01676$$

$$BEC = 0.04675$$

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	974.49	0.0002	P	3.0
2	☐	1.000	0.845	8767.35	0.0014	P	5.4
3	☐	250.000	252.880	2308645.50	0.3776	A	1.2
4	☐	625.000	606.151	5756374.78	0.9050	A	5.8
5	☐	1250.000	1229.273	11277574.14	1.8351	A	0.8
6	☐	2500.000	2388.809	22485406.89	3.5660	A	4.9
7	☐	5000.000	5062.989	42474069.09	7.5579	A	0.8
8	☐			29033.33	0.0060	P	3.0

$$y = 0.0015 * x + 1.5809E-004$$

$$R = 0.9996$$

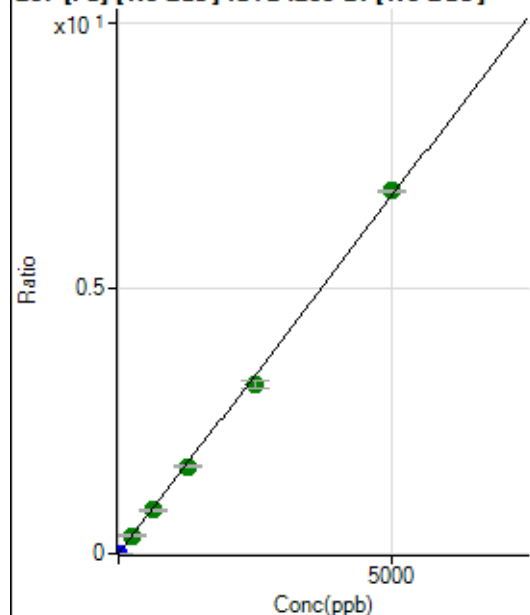
$$DL = 0.009406$$

$$BEC = 0.1059$$

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	790.04	0.0001	P	9.4
2	☐	1.000	0.852	7893.48	0.0013	P	0.7
3	☐	250.000	255.272	2104919.12	0.3443	A	2.0
4	☐	625.000	605.070	5191710.58	0.8160	A	4.9
5	☐	1250.000	1221.021	10118531.58	1.6465	A	0.5
6	☐	2500.000	2371.520	20163535.11	3.1979	A	4.9
7	☐	5000.000	5073.713	38449293.59	6.8415	A	0.5
8	☐			25561.97	0.0053	P	5.3

$$y = 0.0013 * x + 1.2839E-004$$

$$R = 0.9995$$

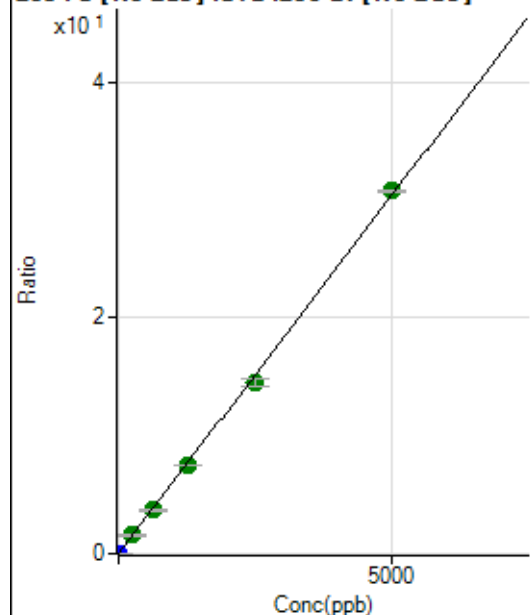
$$DL = 0.02682$$

$$BEC = 0.09521$$

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	3874.71	0.0006	P	1.8
2	☐	1.000	0.840	35387.23	0.0057	P	2.0
3	☐	250.000	255.222	9469691.32	1.5490	A	1.3
4	☐	625.000	604.841	23349968.09	3.6701	A	5.1
5	☐	1250.000	1224.313	45650183.97	7.4284	A	0.4
6	☐	2500.000	2383.476	91177381.83	14.4609	A	5.0
7	☐	5000.000	5066.943	172759152.4	30.7413	A	0.7
8	☐			115951.36	0.0240	P	3.6

$$y = 0.0061 * x + 6.2863E-004$$

$$R = 0.9996$$

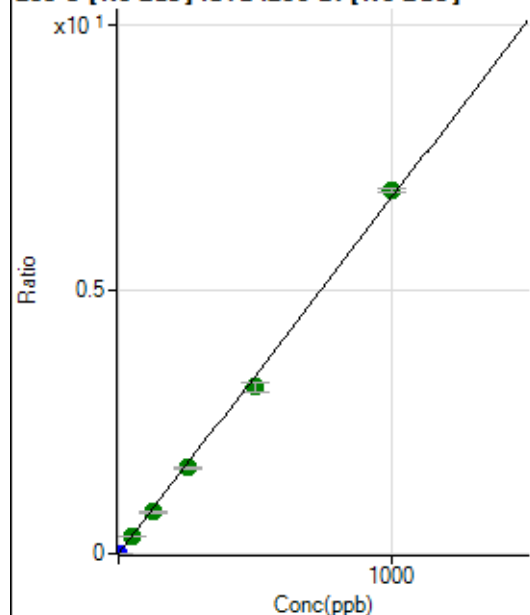
$$DL = 0.005664$$

$$BEC = 0.1036$$

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	98.89	0.0000	P	26.2
2	☐	1.000	0.777	32430.56	0.0052	P	1.7
3	☐	50.000	48.764	2007688.91	0.3284	A	1.4
4	☐	125.000	116.898	5009515.55	0.7873	A	4.5
5	☐	250.000	240.850	9967427.98	1.6220	A	1.0
6	☐	500.000	468.128	19872322.48	3.1526	A	5.9
7	☐	1000.000	1019.298	38575440.81	6.8645	A	1.2
8	☐			7091.97	0.0015	P	10.0

$$y = 0.0067 * x + 1.5916E-005$$

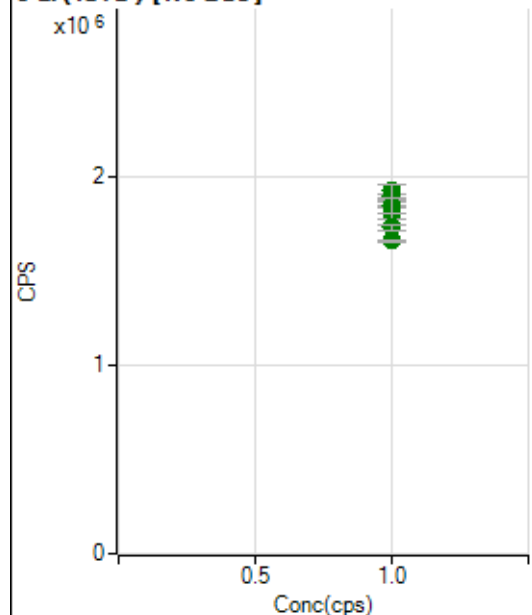
$$R = 0.9992$$

$$DL = 0.001857$$

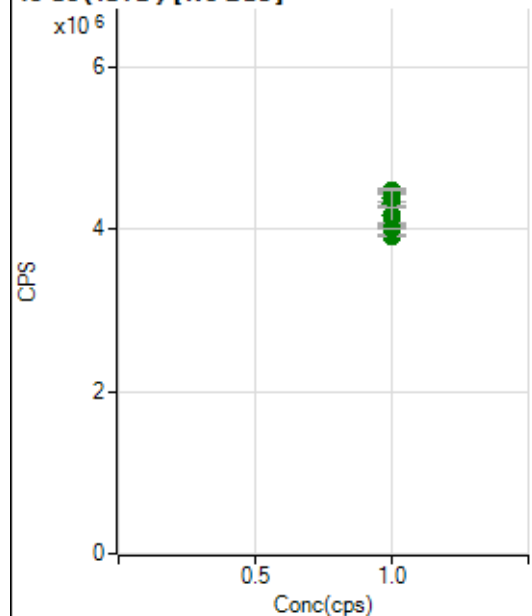
$$BEC = 0.002363$$

Weight: <None>

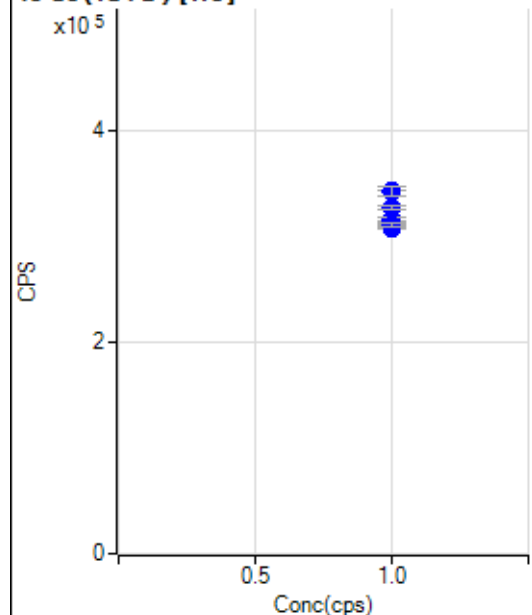
Min Conc: 0

6 Li (ISTD) [No Gas]

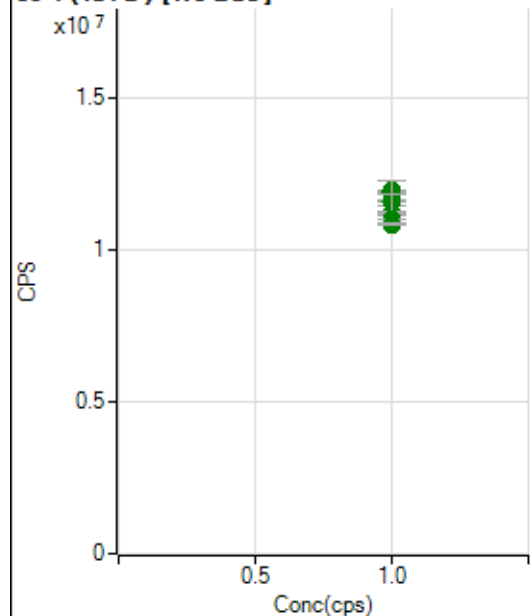
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1805108.98		A	3.4
2	☐	1.000		1889263.90		A	1.9
3	☐	1.000		1866435.91		A	0.4
4	☐	1.000		1920363.03		A	3.7
5	☐	1.000		1841729.42		A	0.6
6	☐	1.000		1843975.81		A	4.6
7	☐	1.000		1725578.97		A	1.3
8	☐	1.000		1657198.66		A	0.8

45 Sc (ISTD) [No Gas]

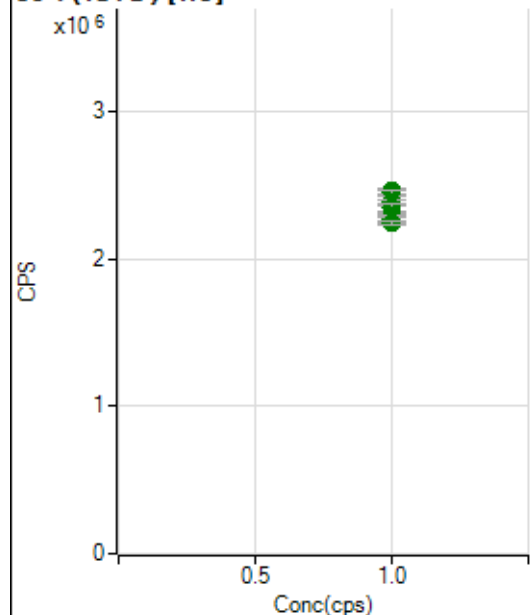
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4375166.08		A	3.8
2	☐	1.000		4468429.21		A	1.5
3	☐	1.000		4312238.55		A	0.7
4	☐	1.000		4377852.09		A	4.9
5	☐	1.000		4039722.30		A	0.5
6	☐	1.000		4167955.11		A	4.3
7	☐	1.000		3915679.70		A	0.6
8	☐	1.000		4010858.14		A	0.2

45 Sc (ISTD) [He]

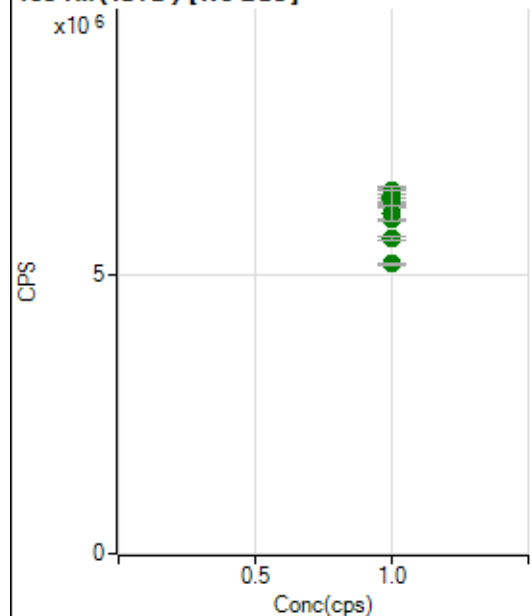
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		341077.11		P	1.9
2	☐	1.000		342911.04		P	2.4
3	☐	1.000		327512.41		P	0.8
4	☐	1.000		316031.56		P	1.0
5	☐	1.000		307239.19		P	0.6
6	☐	1.000		314741.51		P	2.6
7	☐	1.000		309092.26		P	0.3
8	☐	1.000		311314.96		P	1.0

89 Y (ISTD) [No Gas]

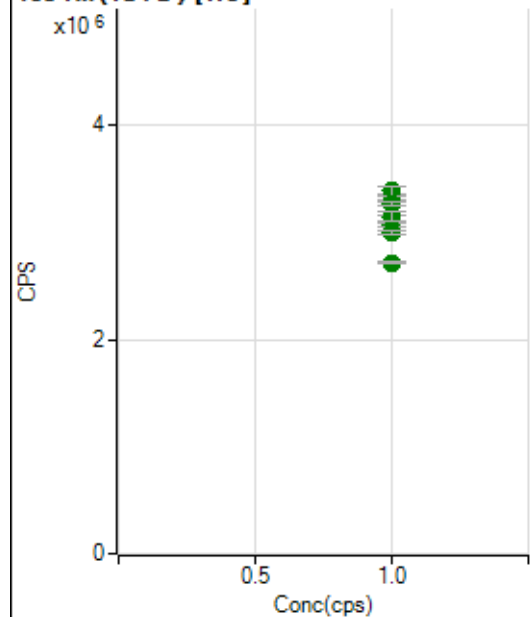
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11673666.35		A	3.6
2	☐	1.000		11920674.55		A	1.4
3	☐	1.000		11613973.85		A	0.4
4	☐	1.000		11957065.79		A	5.7
5	☐	1.000		11197876.08		A	0.8
6	☐	1.000		11594628.99		A	5.0
7	☐	1.000		11038355.67		A	0.2
8	☐	1.000		10862832.06		A	0.8

89 Y(ISTD) [He]

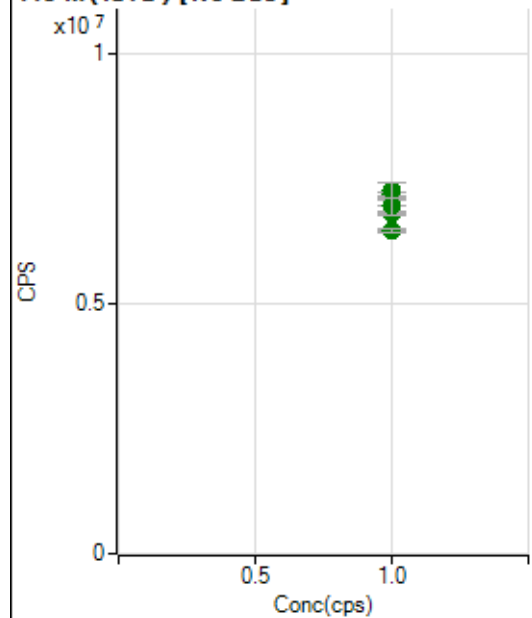
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2466171.98		A	1.6
2	☐	1.000		2454918.16		A	1.8
3	☐	1.000		2390454.62		A	1.5
4	☐	1.000		2303787.74		A	1.2
5	☐	1.000		2268868.86		A	1.4
6	☐	1.000		2355981.28		A	2.3
7	☐	1.000		2295373.28		A	0.6
8	☐	1.000		2247200.04		A	0.8

103 Rh(ISTD) [No Gas]

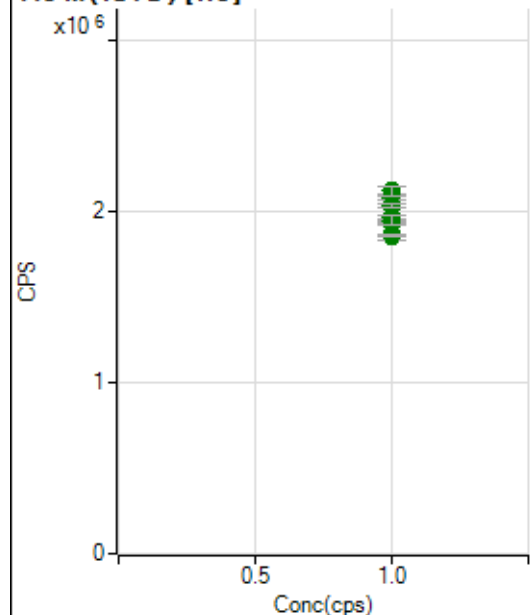
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6409591.99		A	4.0
2	☐	1.000		6506609.90		A	2.2
3	☐	1.000		6349617.27		A	0.7
4	☐	1.000		6372057.41		A	4.7
5	☐	1.000		5986728.17		A	0.4
6	☐	1.000		6099384.70		A	4.3
7	☐	1.000		5656923.18		A	1.2
8	☐	1.000		5201893.57		A	0.5

103 Rh (ISTD) [He]

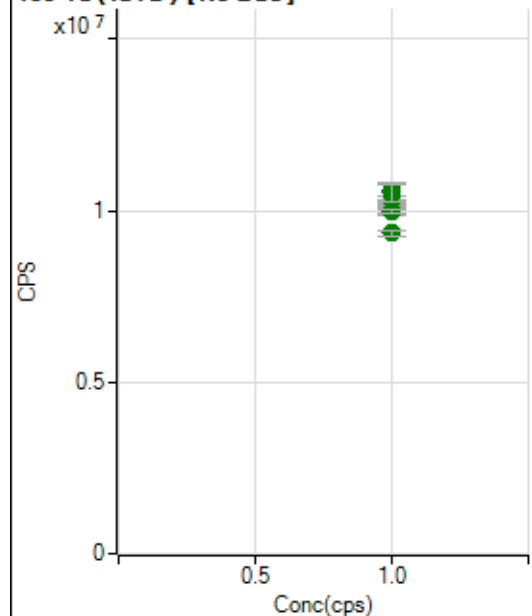
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3329116.93		A	1.2
2	☐	1.000		3384395.33		A	2.7
3	☐	1.000		3265680.05		A	0.6
4	☐	1.000		3157667.17		A	0.3
5	☐	1.000		3066093.91		A	0.8
6	☐	1.000		3147368.29		A	2.9
7	☐	1.000		2994796.94		A	0.8
8	☐	1.000		2714445.37		A	0.9

115 In (ISTD) [No Gas]

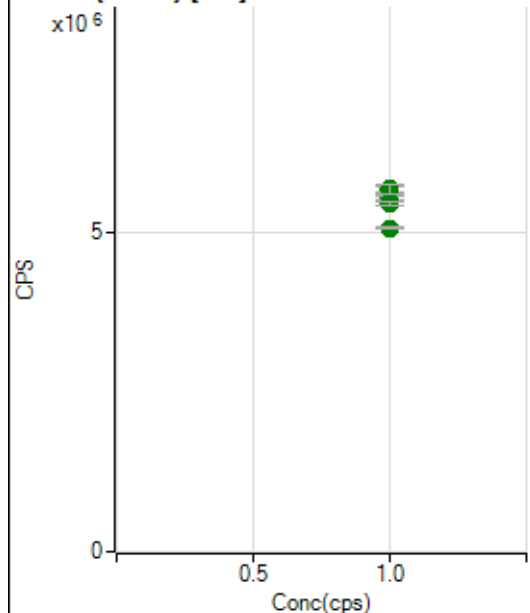
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7089142.62		A	4.0
2	☐	1.000		7169625.58		A	1.1
3	☐	1.000		7105728.73		A	1.1
4	☐	1.000		7246429.82		A	5.0
5	☐	1.000		6817470.66		A	0.6
6	☐	1.000		6939346.97		A	4.6
7	☐	1.000		6459559.98		A	0.7
8	☐	1.000		6446522.31		A	0.9

115 In (ISTD) [He]

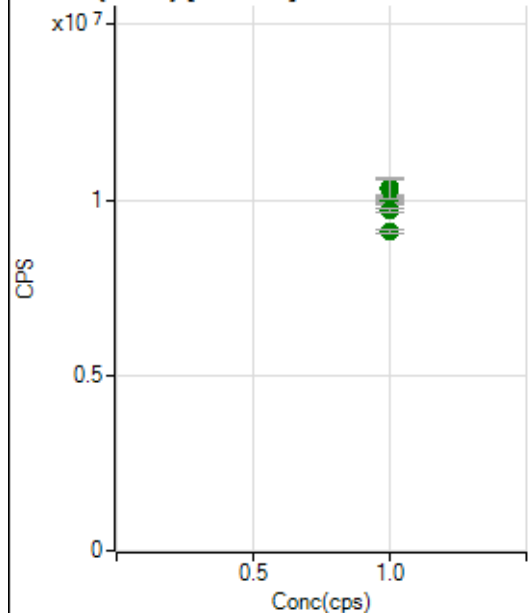
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2084346.60		A	1.3
2	☐	1.000		2122264.89		A	2.9
3	☐	1.000		2035899.29		A	1.4
4	☐	1.000		1969049.73		A	1.1
5	☐	1.000		1937502.56		A	0.6
6	☐	1.000		1950610.10		A	3.3
7	☐	1.000		1852973.99		A	1.6
8	☐	1.000		1863164.53		A	0.6

159 Tb (ISTD) [No Gas]

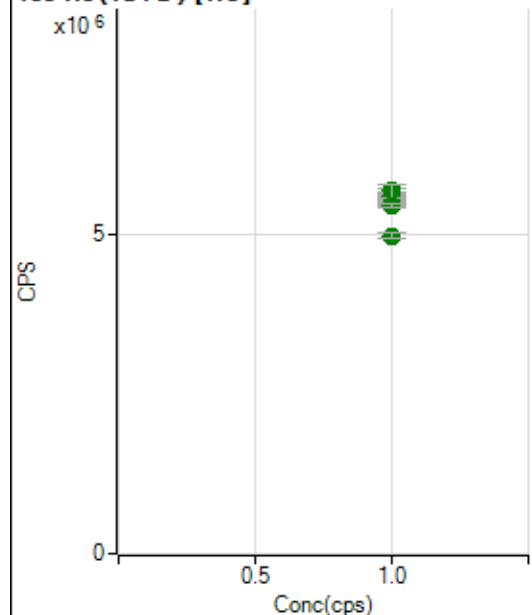
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10105336.86		A	4.5
2	☐	1.000		10338853.87		A	1.2
3	☐	1.000		10208622.90		A	0.5
4	☐	1.000		10578129.22		A	4.8
5	☐	1.000		10137864.85		A	0.6
6	☐	1.000		10532538.59		A	4.8
7	☐	1.000		9967720.20		A	1.0
8	☐	1.000		9355333.40		A	1.8

159 Tb (ISTD) [He]

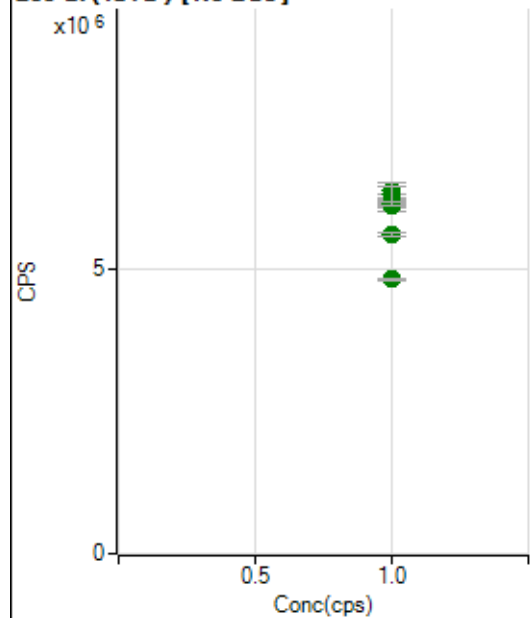
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5680136.24		A	1.9
2	☐	1.000		5687534.36		A	2.6
3	☐	1.000		5657729.09		A	2.4
4	☐	1.000		5625176.10		A	0.8
5	☐	1.000		5558912.07		A	1.1
6	☐	1.000		5676374.71		A	2.4
7	☐	1.000		5451557.59		A	0.9
8	☐	1.000		5071317.08		A	0.4

165 Ho (ISTD) [No Gas]

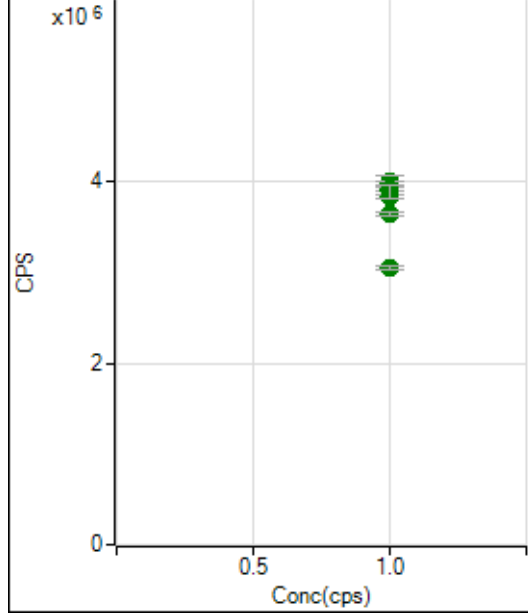
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9874760.90		A	4.5
2	☐	1.000		10047033.25		A	1.8
3	☐	1.000		9977586.73		A	0.7
4	☐	1.000		10338849.57		A	5.5
5	☐	1.000		9899574.65		A	0.4
6	☐	1.000		10295602.00		A	4.9
7	☐	1.000		9682122.91		A	1.0
8	☐	1.000		9088799.87		A	1.4

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5648678.18		A	1.1
2	☐	1.000		5639921.93		A	3.0
3	☐	1.000		5616169.43		A	1.3
4	☐	1.000		5562221.17		A	0.8
5	☐	1.000		5495843.74		A	1.2
6	☐	1.000		5690089.36		A	3.6
7	☐	1.000		5454858.32		A	0.8
8	☐	1.000		4988736.21		A	1.4

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6165832.41		A	4.5
2	☐	1.000		6181198.66		A	1.9
3	☐	1.000		6114072.96		A	1.5
4	☐	1.000		6371996.02		A	4.6
5	☐	1.000		6145325.60		A	0.6
6	☐	1.000		6314659.14		A	4.6
7	☐	1.000		5620127.94		A	1.2
8	☐	1.000		4822806.32		A	0.8

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3978088.90		A	1.9
2	☐	1.000		3998061.47		A	3.2
3	☐	1.000		3964352.93		A	1.6
4	☐	1.000		3916957.10		A	1.2
5	☐	1.000		3832557.51		A	1.4
6	☐	1.000		3889318.73		A	3.6
7	☐	1.000		3643279.32		A	1.4
8	☐	1.000		3050567.42		A	1.6

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7042924-PS.b

Acq. Date-Time 2024-04-29 19:59:15

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		11815	118150.15			1.418	5.000
24		77326	773260.22			1.660	5.000
25		10235	102349.50			1.178	5.000
26		11939	119393.09			1.260	5.000
59		89965	899649.99			1.567	5.000
113		12154	121537.19			1.614	5.000
115		148526	1485264.21			1.273	5.000
206		35705	357051.41			1.227	5.000
207		32440	324396.86			1.379	5.000
208		77098	770975.67			1.315	5.000
220		0	2.80			34.810	

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

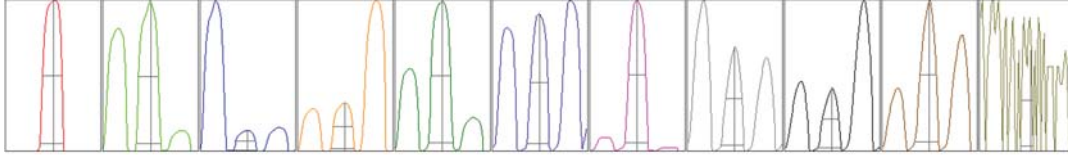
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	11977	11881	11532	11853	11832
24	77131	78031	75178	77919	78371
25	10148	10242	10105	10264	10416
26	11927	12006	11693	11978	12093
59	90640	91039	87501	90397	90248
113	12348	12227	11825	12208	12160
115	150901	149063	145644	148336	148688
206	36277	35910	35101	35522	35716
207	32833	32821	31739	32342	32462
208	78219	77896	75656	76752	76966

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	20165.18	9.05	8.90 - 9.10	
24	132001.49	24.05	23.90 - 24.10	
25	17858.64	25.00	24.90 - 25.10	
26	20543.83	26.00	25.90 - 26.10	
59	153958.87	59.00	58.90 - 59.10	
113	23181.06	113.00	112.90 - 113.10	
115	279997.22	115.00	114.90 - 115.10	
206	72229.04	206.00	205.90 - 206.10	
207	65305.29	207.00	206.90 - 207.10	
208	155633.21	208.00	207.90 - 208.10	
220	0.30	220.15	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.60	0.738	0.900	
24	0.62	0.781	0.900	
25	0.60	0.734	0.900	
26	0.61	0.743	0.900	
59	0.60	0.783	0.900	
113	0.53	0.714	0.900	
115	0.54	0.738	0.900	
206	0.51	0.732	0.900	
207	0.51	0.734	0.900	
208	0.51	0.766	0.900	
220	0.35	0.395		

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	8.2 V	Deflect	14.8 V
Extract 2	-135.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-75 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	200 V		

QP Parameters

Mass Gain	133	Axis Gain	0.9976	QP Bias	-3.0 V
Mass Offset	129	Axis Offset	0.13		

Hardware Settings

Torch

Torch H	-0.3 mm	Torch V	0.5 mm
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EM

Discriminator	4.6 mV	Analog HV	2302 V	Pulse HV	1348 V
---------------	--------	-----------	--------	----------	--------

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		26268	262676.54			4.856	
89		24695	246953.40			4.451	
205		31361	313610.90			4.309	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	26839	26938	26704	26866	23991
89	25168	25304	25204	25066	22735
205	32469	31891	31832	31601	29012

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	2.4 V
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US EPA Tune Check Report

Extract 2	-135.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-75 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	133	Axis Gain	0.9976	QP Bias	-13.0 V
Mass Offset	129	Axis Offset	0.13		

Hardware Settings

Torch

Torch H	-0.3 mm	Torch V	0.5 mm
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EM

Discriminator	4.6 mV	Analog HV	2302 V	Pulse HV	1348 V
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