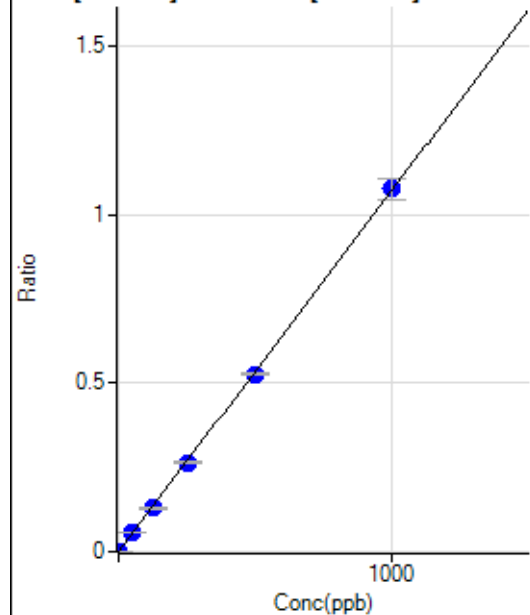


Calibration for 008CALS.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P7051724-PM.b\
 Analysis File: P7051724-PM.batch.bin
 DA Date-Time: 2024-05-17 13:20:05
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2024-05-17 11:36:21
2	005CALS.d	S02	2024-05-17 11:39:37
3	006CALS.d	S03	2024-05-17 11:42:54
4	007CALS.d	S04	2024-05-17 11:45:59
5	008CALS.d	S05	2024-05-17 11:48:56
6	009CALS.d	S06	2024-05-17 11:51:47
7	010CALS.d	S07	2024-05-17 11:54:35
8	011CALS.d	S08	2024-05-17 11:57:20

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	86.66	0.0001	P	13.9
2	☐	1.000	0.993	1295.62	0.0011	P	5.2
3	☐	50.000	52.702	63947.36	0.0566	P	0.6
4	☐	125.000	122.329	153604.82	0.1313	P	4.5
5	☐	250.000	247.059	288718.65	0.2650	P	1.3
6	☐	500.000	491.607	559923.83	0.5273	P	1.4
7	☐	1000.000	1005.131	1064903.09	1.0780	P	6.1
8	☐			1297.84	0.0013	P	8.9

$$y = 0.0011 * x + 7.6459E-005$$

$$R = 0.9999$$

$$DL = 0.02975$$

$$BEC = 0.0713$$

Weight: <None>

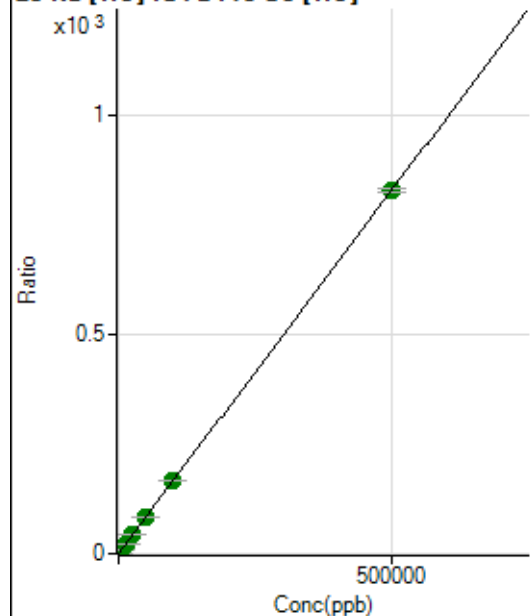
Min Conc: 0

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	20511.49	0.0745	P	2.3
2	☐	500.000	489.139	247217.90	0.8849	P	0.7
3	☐	5000.000	5243.528	2340005.76	8.7611	A	1.5
4	☐	12500.000	12809.113	5527739.64	21.2944	A	0.9
5	☐	25000.000	25617.913	10598239.15	42.5138	A	0.6
6	☐	50000.000	51066.430	20716343.99	84.6723	A	1.1
7	☐	100000.00	101008.36	40166377.73	167.4073	A	1.3
8	☐	500000.00	499650.63	198324870.3	827.8071	A	1.1

$$y = 0.0017 * x + 0.0745$$

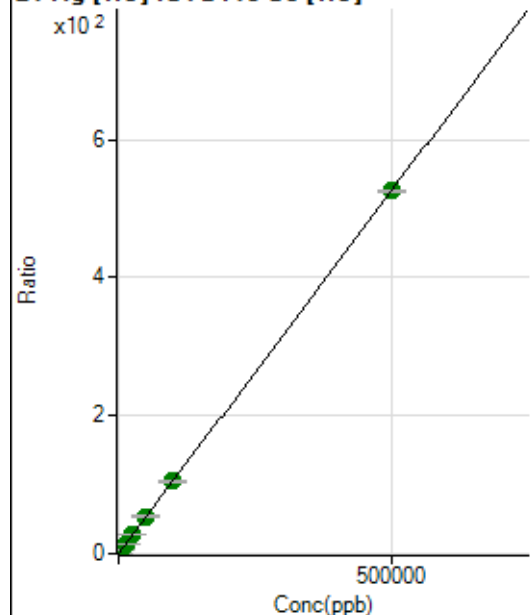
$$R = 1.0000$$

$$DL = 3.07$$

$$BEC = 45$$

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	842.25	0.0031	P	3.6
2	☐	500.000	484.710	143172.74	0.5125	P	0.4
3	☐	5000.000	5253.489	1475389.07	5.5241	A	1.6
4	☐	12500.000	12956.257	3535302.34	13.6191	A	0.8
5	☐	25000.000	25503.592	6682418.37	26.8054	A	0.5
6	☐	50000.000	51326.586	13197732.44	53.9435	A	1.6
7	☐	100000.00	99592.799	25113922.68	104.6676	A	0.8
8	☐	500000.00	499909.67	125867985.9	525.3707	A	0.8

$$y = 0.0011 * x + 0.0031$$

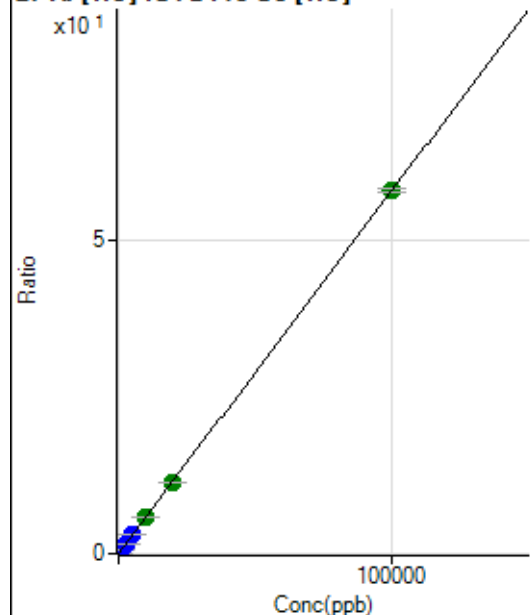
$$R = 1.0000$$

$$DL = 0.3139$$

$$BEC = 2.913$$

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	648.91	0.0024	P	7.7
2	☐	20.000	19.415	3799.39	0.0136	P	3.2
3	☐	1000.000	1063.345	165051.74	0.6180	P	1.0
4	☐	2500.000	2603.624	391883.97	1.5097	P	0.5
5	☐	5000.000	5175.125	747468.55	2.9984	P	0.4
6	☐	10000.000	9901.543	1403029.63	5.7346	A	1.6
7	☐	20000.000	19705.940	2737917.04	11.4107	A	0.7
8	☐	100000.00	100056.67	13878294.38	57.9279	A	1.1

$$y = 5.7893E-004 * x + 0.0024$$

$$R = 1.0000$$

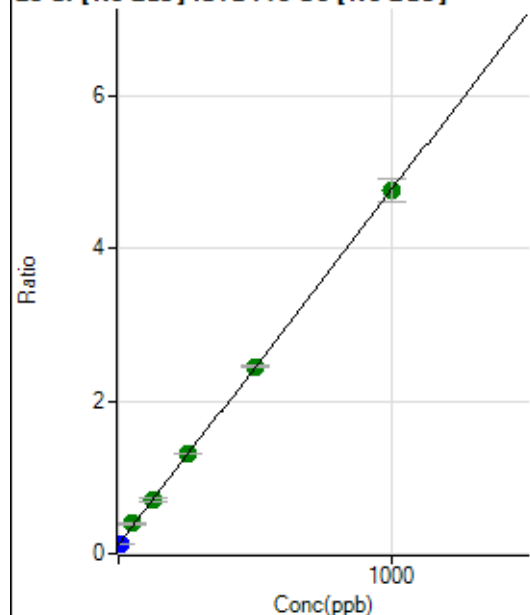
$$DL = 0.9365$$

$$BEC = 4.074$$

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	405609.32	0.1211	P	0.5
2	☐	10.000	1.534	425538.27	0.1282	P	2.8
3	☐	50.000	58.875	1299825.41	0.3948	A	2.0
4	☐	125.000	125.440	2338801.63	0.7044	A	7.1
5	☐	250.000	256.194	4015540.56	1.3123	A	0.6
6	☐	500.000	501.427	7201786.35	2.4526	A	0.9
7	☐	1000.000	997.324	12988203.00	4.7585	A	6.4
8	☐			486321.93	0.1675	P	1.7

$$y = 0.0046 * x + 0.1211$$

$$R = 0.9999$$

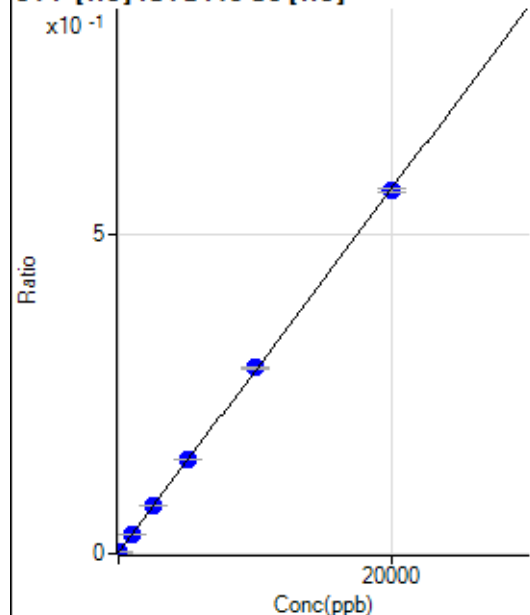
$$DL = 0.3945$$

$$BEC = 26.04$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-17.532	388.90	0.0014	P	10.4
2	☐	0.000	17.532	673.36	0.0024	P	2.9
3	☐	1000.000	1006.739	8154.46	0.0305	P	2.0
4	☐	2500.000	2574.419	19492.49	0.0751	P	2.0
5	☐	5000.000	5105.866	36659.38	0.1471	P	1.1
6	☐	10000.000	10153.820	71091.79	0.2906	P	0.4
7	☐	20000.000	19886.984	136101.66	0.5672	P	0.9
8	☐			463.34	0.0019	P	4.4

$$y = 2.8427E-005 * x + 0.0019$$

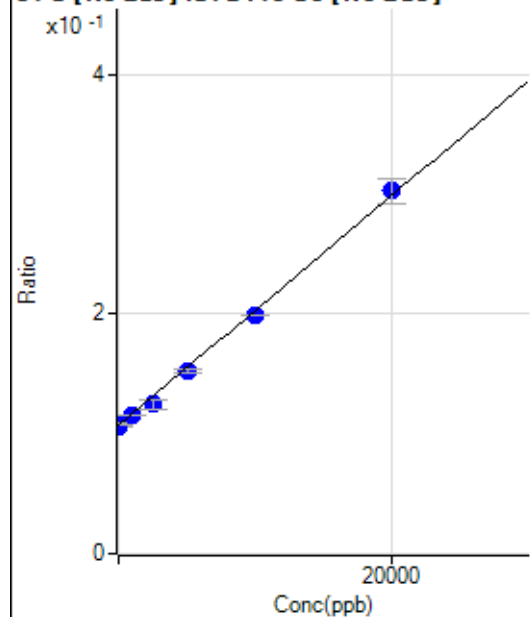
$$R = 0.9999$$

$$DL = 11.46$$

$$BEC = 67.26$$

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	-118.152	355517.76	0.1061	P	0.7
2	☐	0.000	118.152	359783.94	0.1084	P	2.3
3	☐	1000.000	885.663	381067.69	0.1157	P	0.5
4	☐	2500.000	1798.628	413397.06	0.1245	P	6.8
5	☐	5000.000	4712.360	466251.83	0.1524	P	1.7
6	☐	10000.000	9541.477	583268.26	0.1986	P	0.3
7	☐	20000.000	20394.560	825674.13	0.3026	P	7.0
8	☐			321562.24	0.1108	P	1.9

$$y = 9.5774\text{E-}006 * x + 0.1073$$

$$R = 0.9990$$

$$DL = 516.1$$

$$BEC = 1.12\text{E}+04$$

Weight: <None>

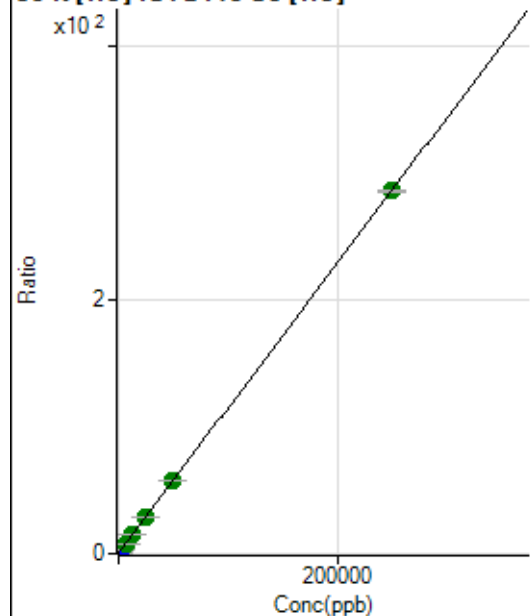
Min Conc: 0

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	95322.64	0.3464	P	0.8
2	☐	500.000	489.204	252700.74	0.9045	P	1.1
3	☐	2500.000	2752.681	931256.77	3.4867	P	1.0
4	☐	6250.000	6349.035	1970089.59	7.5894	A	0.2
5	☐	12500.000	12651.273	3684222.10	14.7789	A	0.6
6	☐	25000.000	25379.058	7168468.09	29.2987	A	0.6
7	☐	50000.000	49662.916	13677454.66	57.0015	A	0.6
8	☐	250000.00	250016.96	68416233.98	285.5638	A	0.2

$$y = 0.0011 * x + 0.3464$$

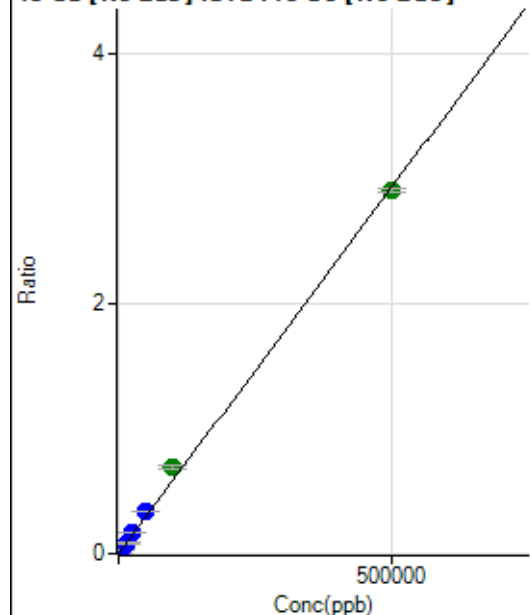
$$R = 1.0000$$

$$DL = 7.392$$

$$BEC = 303.7$$

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	267.78	0.0001	P	8.5
2	☐	500.000	492.951	9859.94	0.0030	P	2.8
3	☐	5000.000	5862.781	113432.89	0.0345	P	0.7
4	☐	12500.000	13936.479	271550.11	0.0818	P	7.3
5	☐	25000.000	29012.054	520697.01	0.1702	P	0.6
6	☐	50000.000	58147.930	1001298.09	0.3410	P	0.8
7	☐	100000.00	117747.23	1885910.39	0.6904	A	4.8
8	☐	500000.00	495390.62	8432877.58	2.9046	A	1.1

$$y = 5.8630E-006 * x + 7.9893E-005$$

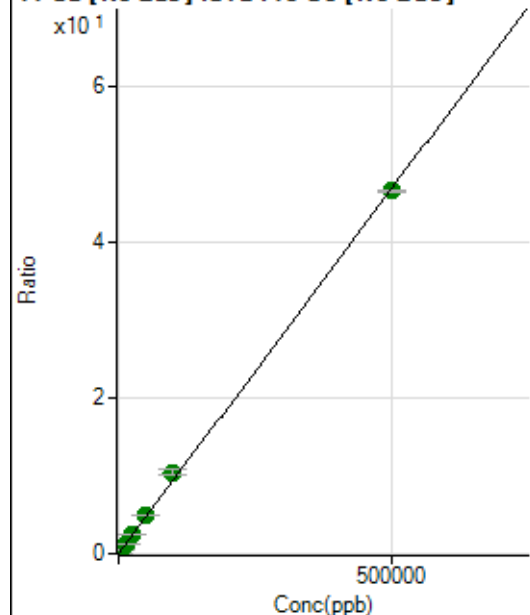
$$R = 0.9992$$

$$DL = 3.469$$

$$BEC = 13.63$$

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	25068.56	0.0075	P	0.9
2	☐	500.000	502.470	180820.03	0.0545	P	2.2
3	☐	5000.000	5368.404	1677514.94	0.5095	A	1.1
4	☐	12500.000	12726.606	3976629.07	1.1977	A	7.1
5	☐	25000.000	26373.105	7569423.78	2.4739	A	0.4
6	☐	50000.000	53349.823	14671898.67	4.9967	A	0.4
7	☐	100000.00	111531.64	28493346.80	10.4379	A	6.1
8	☐	500000.00	497280.68	135046897.9	46.5129	A	0.6

$$y = 9.3519E-005 * x + 0.0075$$

$$R = 0.9997$$

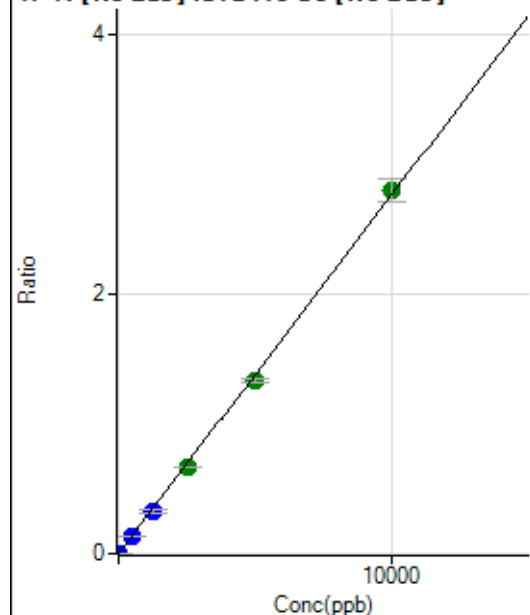
$$DL = 2.198$$

$$BEC = 80.02$$

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	176.70	0.0001	P	61.1
2	☐	5.000	4.746	4526.27	0.0014	P	1.5
3	☐	500.000	494.634	449720.79	0.1366	P	1.1
4	☐	1250.000	1179.406	1081105.79	0.3256	P	7.3
5	☐	2500.000	2411.185	2036862.47	0.6657	A	0.6
6	☐	5000.000	4828.134	3913815.46	1.3329	A	1.4
7	☐	10000.000	10117.229	7623182.04	2.7930	A	6.4
8	☐			2943.65	0.0010	P	11.5

$$y = 2.7606\text{E-}004 * x + 5.2931\text{E-}005$$

$$R = 0.9997$$

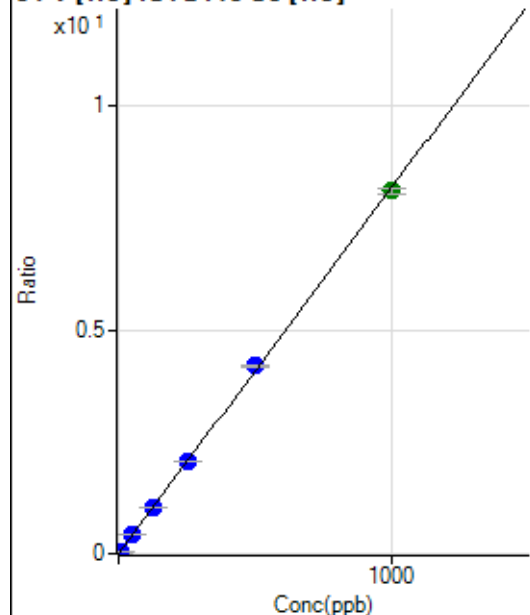
$$DL = 0.3516$$

$$BEC = 0.1917$$

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	13.33	0.0000	P	24.9
2	☐	5.000	4.778	10930.70	0.0391	P	2.1
3	☐	50.000	52.003	113617.82	0.4254	P	0.9
4	☐	125.000	127.570	270868.42	1.0435	P	0.4
5	☐	250.000	254.517	518971.00	2.0818	P	0.2
6	☐	500.000	513.900	1028398.58	4.2033	P	1.3
7	☐	1000.000	991.501	1945726.95	8.1097	A	1.5
8	☐			1030.04	0.0043	P	6.6

$$y = 0.0082 * x + 4.8443\text{E-}005$$

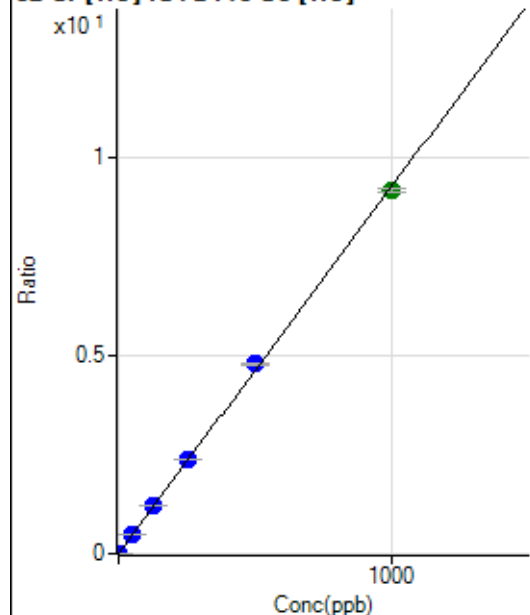
$$R = 0.9998$$

$$DL = 0.00442$$

$$BEC = 0.005923$$

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	980.09	0.0036	P	68.5
2	☐	2.000	1.774	5577.75	0.0200	P	4.2
3	☐	50.000	52.641	130954.61	0.4903	P	0.9
4	☐	125.000	129.429	311578.53	1.2003	P	0.8
5	☐	250.000	258.736	597284.15	2.3959	P	0.2
6	☐	500.000	516.780	1169963.51	4.7819	P	0.9
7	☐	1000.000	988.741	2194513.09	9.1458	A	0.9
8	☐			31958.32	0.1334	P	1.1

$$y = 0.0092 * x + 0.0036$$

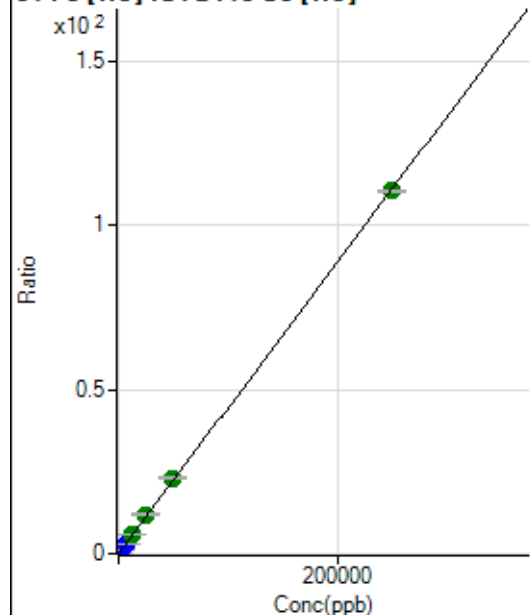
$$R = 0.9997$$

$$DL = 0.7913$$

$$BEC = 0.385$$

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	2196.86	0.0080	P	5.9
2	☐	50.000	51.344	8590.29	0.0307	P	3.1
3	☐	2500.000	2880.023	343192.60	1.2849	P	1.2
4	☐	6250.000	7111.967	820606.05	3.1613	P	0.6
5	☐	12500.000	13394.838	1482475.90	5.9469	A	1.6
6	☐	25000.000	26998.758	2930784.40	11.9786	A	0.8
7	☐	50000.000	52014.928	5535569.43	23.0701	A	0.8
8	☐	250000.00	249327.04	26486505.99	110.5534	A	0.6

$$y = 4.4338E-004 * x + 0.0080$$

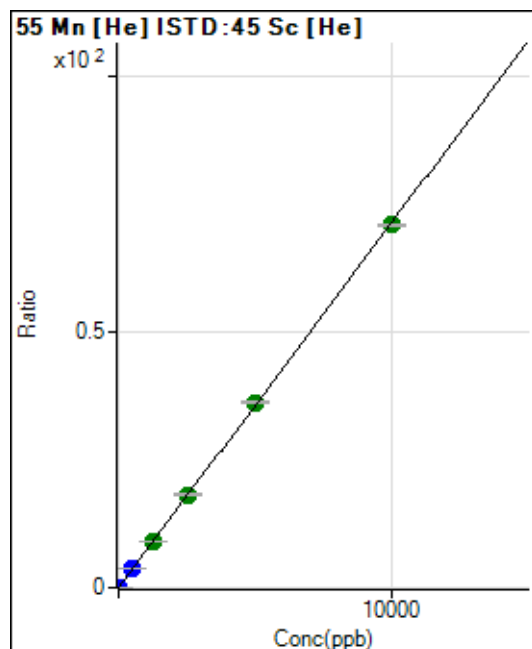
$$R = 0.9999$$

$$DL = 3.183$$

$$BEC = 18.01$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	592.24	0.0022	P	12.2
2	☐	1.000	0.920	2435.77	0.0087	P	2.7
3	☐	500.000	524.794	1001021.74	3.7478	P	1.0
4	☐	1250.000	1282.398	2376513.96	9.1551	A	1.1
5	☐	2500.000	2543.114	4525402.47	18.1534	A	1.4
6	☐	5000.000	5074.219	8861412.86	36.2189	A	1.2
7	☐	10000.000	9946.822	17035182.80	70.9966	A	0.5
8	☐			12077.19	0.0504	P	4.1

$$y = 0.0071 * x + 0.0022$$

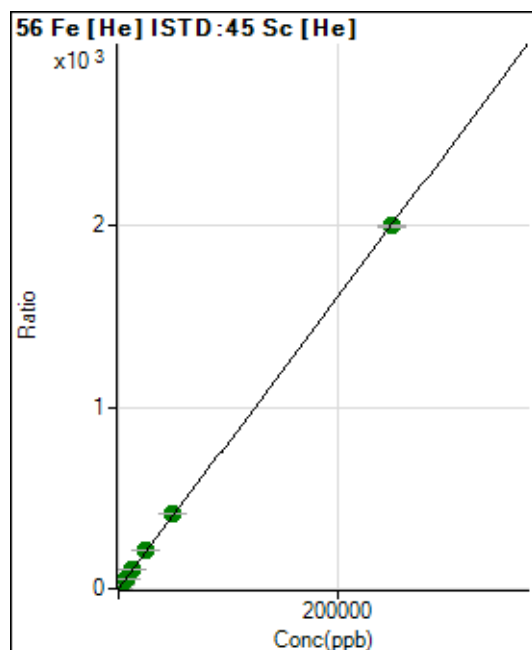
$$R = 0.9999$$

$$DL = 0.1105$$

$$BEC = 0.3016$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	17380.66	0.0632	P	3.7
2	☐	50.000	51.890	133872.33	0.4792	P	1.6
3	☐	2500.000	2698.707	5795628.38	21.6990	A	1.2
4	☐	6250.000	6681.409	13921022.85	53.6287	A	0.7
5	☐	12500.000	13274.720	26546527.38	106.4879	A	0.2
6	☐	25000.000	26504.577	52004463.67	212.5530	A	1.0
7	☐	50000.000	51781.149	99624329.63	415.1978	A	0.6
8	☐	250000.00	249441.80	479143361.7	1.999.863	A	0.6

$$y = 0.0080 * x + 0.0632$$

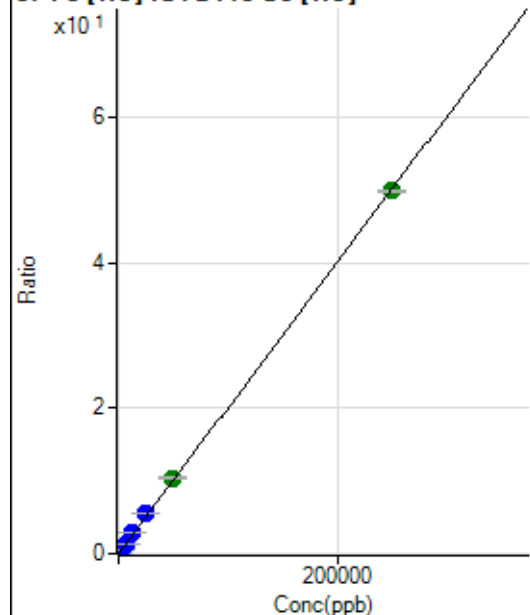
$$R = 1.0000$$

$$DL = 0.8859$$

$$BEC = 7.879$$

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	648.91	0.0024	P	1.6
2	☐	50.000	54.182	3689.38	0.0132	P	0.9
3	☐	2500.000	2846.823	152855.67	0.5723	P	0.8
4	☐	6250.000	7034.837	366190.68	1.4107	P	1.0
5	☐	12500.000	14005.396	699557.34	2.8062	P	0.3
6	☐	25000.000	27888.564	1366580.55	5.5855	P	1.1
7	☐	50000.000	52092.868	2502769.48	10.4311	A	1.2
8	☐	250000.00	249194.21	11952832.74	49.8900	A	0.5

$$y = 2.0020\text{E-}004 * x + 0.0024$$

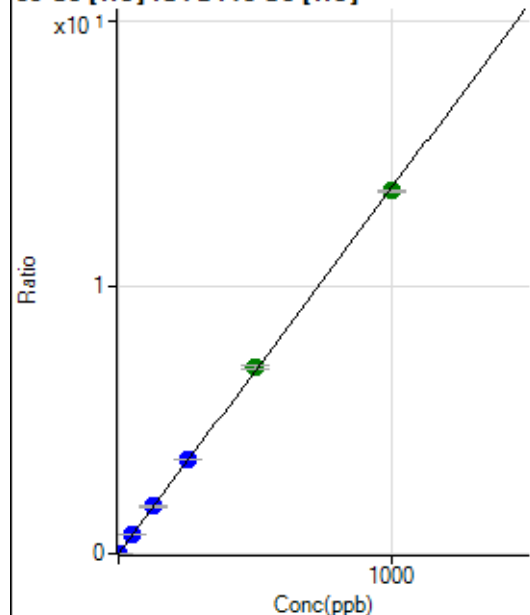
$$R = 0.9999$$

$$DL = 0.5707$$

$$BEC = 11.78$$

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	75.55	0.0003	P	25.7
2	☐	1.000	0.993	3882.77	0.0139	P	0.6
3	☐	50.000	52.786	193432.52	0.7242	P	0.6
4	☐	125.000	129.211	460058.90	1.7723	P	1.2
5	☐	250.000	258.015	882186.70	3.5388	P	0.5
6	☐	500.000	510.284	1712188.08	6.9985	A	2.4
7	☐	1000.000	992.189	3265056.83	13.6075	A	0.8
8	☐			9554.21	0.0399	P	2.8

$$y = 0.0137 * x + 2.7448\text{E-}004$$

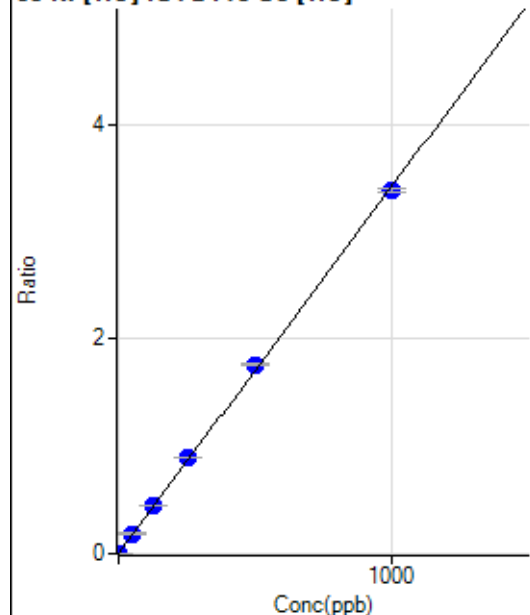
$$R = 0.9999$$

$$DL = 0.01542$$

$$BEC = 0.02001$$

Weight: <None>

Min Conc: 0

60 Ni [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	377.79	0.0014	P	11.3
2	☐	1.000	0.927	1268.95	0.0045	P	2.2
3	☐	50.000	53.986	49631.86	0.1858	P	2.5
4	☐	125.000	131.905	117352.19	0.4521	P	0.7
5	☐	250.000	260.114	221906.10	0.8902	P	0.8
6	☐	500.000	515.253	431093.46	1.7619	P	0.5
7	☐	1000.000	988.783	810964.67	3.3799	P	1.1
8	☐			9388.55	0.0392	P	0.5

$$y = 0.0034 * x + 0.0014$$

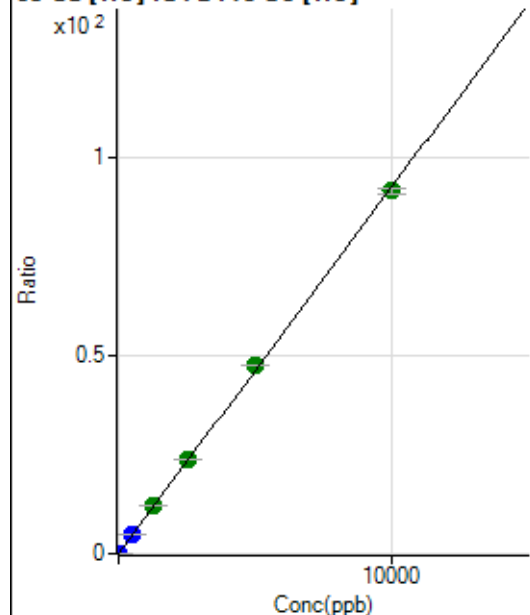
$$R = 0.9998$$

$$DL = 0.1365$$

$$BEC = 0.4019$$

Weight: <None>

Min Conc: 0

63 Cu [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1251.17	0.0045	P	1.4
2	☐	2.000	1.951	6316.95	0.0226	P	2.3
3	☐	500.000	537.277	1329776.64	4.9786	P	0.8
4	☐	1250.000	1320.486	3174519.15	12.2293	A	1.3
5	☐	2500.000	2591.918	5983035.68	24.0000	A	0.2
6	☐	5000.000	5131.230	11624096.22	47.5085	A	0.4
7	☐	10000.000	9900.731	21992798.84	91.6636	A	1.3
8	☐			9292.95	0.0388	P	3.1

$$y = 0.0093 * x + 0.0045$$

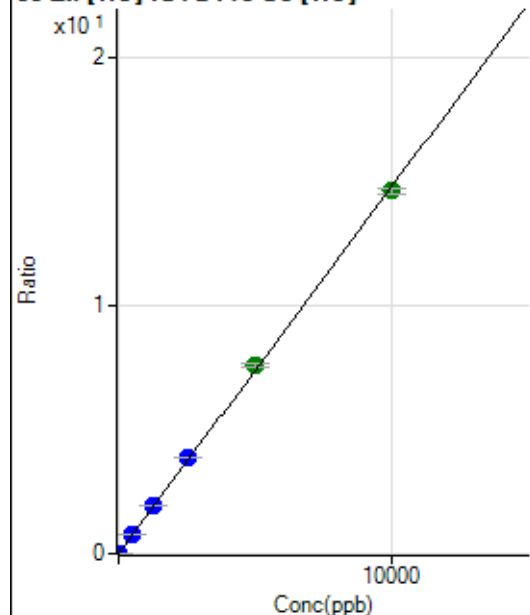
$$R = 0.9998$$

$$DL = 0.02089$$

$$BEC = 0.4912$$

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	642.24	0.0023	P	3.8
2	☐	5.000	4.576	2539.13	0.0091	P	6.1
3	☐	500.000	534.633	211436.02	0.7916	P	1.0
4	☐	1250.000	1318.446	505866.15	1.9488	P	0.7
5	☐	2500.000	2620.904	965153.98	3.8716	P	0.3
6	☐	5000.000	5133.407	1854915.96	7.5808	A	1.5
7	☐	10000.000	9892.783	3504678.42	14.6071	A	1.3
8	☐			2176.85	0.0091	P	6.0

$$y = 0.0015 * x + 0.0023$$

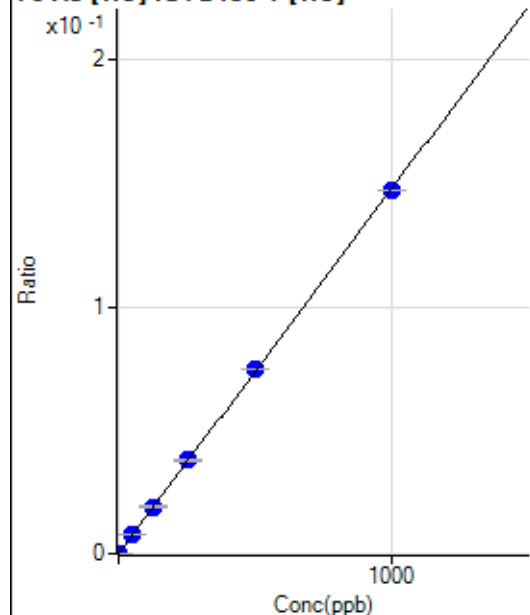
$$R = 0.9998$$

$$DL = 0.1819$$

$$BEC = 1.581$$

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	0.00	0.0000	P	
2	☐	1.000	1.057	300.01	0.0002	P	6.1
3	☐	50.000	52.111	14062.31	0.0077	P	2.3
4	☐	125.000	128.320	33670.39	0.0189	P	1.5
5	☐	250.000	255.799	64946.78	0.0378	P	1.7
6	☐	500.000	506.373	127520.72	0.0748	P	0.7
7	☐	1000.000	994.843	243248.49	0.1469	P	0.1
8	☐			212.22	0.0001	P	8.0

$$y = 1.4766E-004 * x + 0.0000E+000$$

$$R = 1.0000$$

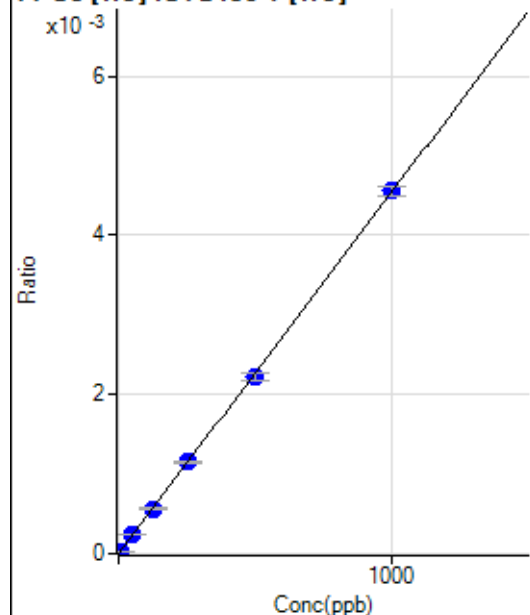
$$DL = 0$$

$$BEC = 0$$

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	4.706	41.11	0.0000	P	18.0
3	☐	50.000	53.692	445.57	0.0002	P	5.3
4	☐	125.000	124.097	1001.15	0.0006	P	2.8
5	☐	250.000	254.525	1986.82	0.0012	P	2.1
6	☐	500.000	490.094	3793.86	0.0022	P	4.8
7	☐	1000.000	1003.752	7544.21	0.0046	P	2.7
8	☐			3.33	0.0000	P	100.

$$y = 4.5393\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9999$$

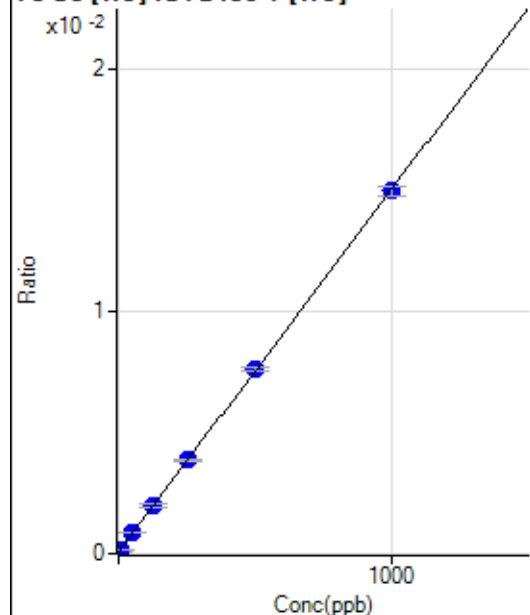
$$DL = 0$$

$$BEC = 0$$

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	132.23	0.0001	P	7.1
2	☐	5.000	3.969	248.89	0.0001	P	11.8
3	☐	50.000	52.773	1570.10	0.0009	P	5.8
4	☐	125.000	127.975	3522.68	0.0020	P	4.6
5	☐	250.000	253.585	6638.22	0.0039	P	1.3
6	☐	500.000	504.986	12990.24	0.0076	P	1.6
7	☐	1000.000	996.105	24766.32	0.0150	P	2.3
8	☐			133.33	0.0001	P	13.2

$$y = 1.4946\text{E-}005 * x + 7.0024\text{E-}005$$

$$R = 1.0000$$

$$DL = 0.9946$$

$$BEC = 4.685$$

Weight: <None>

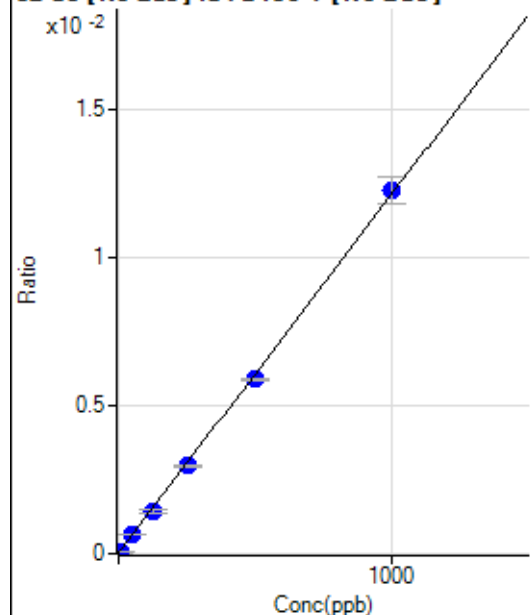
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			23975.16		P	0.3
2	☐			23996.31		P	1.6
3	☐			23344.09		P	0.9
4	☐			22192.34		P	0.9
5	☐			21767.28		P	1.8
6	☐			21374.40		P	1.6
7	☐			21135.26		P	0.8
8	☐			21758.38		P	1.4

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			71.11		P	28.6
2	☐			43.34		P	35.2
3	☐			33.33		P	10.0
4	☐			45.55		P	36.8
5	☐			44.45		P	30.3
6	☐			37.78		P	35.7
7	☐			50.00		P	26.7
8	☐			40.00		P	8.3

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	188.90	0.0000	P	8.4
2	☐	5.000	4.325	613.89	0.0001	P	4.0
3	☐	50.000	51.025	5193.00	0.0006	P	1.9
4	☐	125.000	116.744	11966.39	0.0014	P	7.0
5	☐	250.000	243.574	22702.37	0.0030	P	1.6
6	☐	500.000	484.894	44493.49	0.0059	P	1.5
7	☐	1000.000	1010.144	84467.16	0.0122	P	7.4
8	☐			191.65	0.0000	P	15.3

$$y = 1.2084\text{E-}005 * x + 2.2961\text{E-}005$$

$$R = 0.9998$$

$$DL = 0.4775$$

$$BEC = 1.9$$

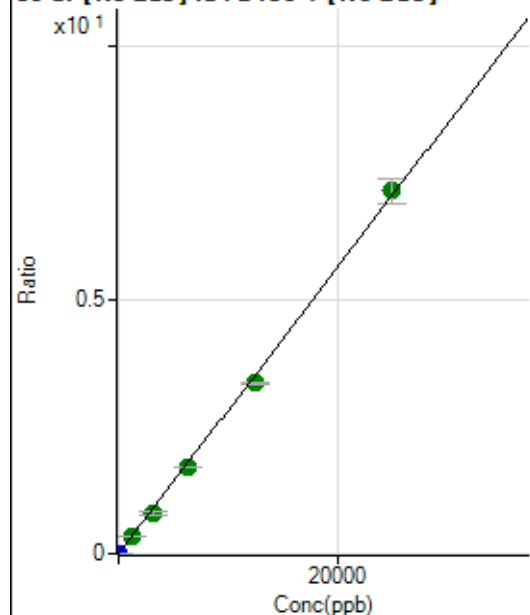
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			66.66		P	22.9
2	☐			87.78		P	23.2
3	☐			65.55		P	24.0
4	☐			75.56		P	19.9
5	☐			78.89		P	17.6
6	☐			82.22		P	23.4
7	☐			92.22		P	10.4
8	☐			98.89		P	13.6

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	196.67	0.0000	P	12.0
2	☐	1.000	0.950	2375.77	0.0003	P	4.8
3	☐	1250.000	1211.425	2768227.18	0.3409	A	0.5
4	☐	3125.000	2852.633	6700371.01	0.8028	A	7.1
5	☐	6250.000	6035.137	12998874.67	1.6984	A	1.1
6	☐	12500.000	11910.418	25353091.29	3.3517	A	1.4
7	☐	25000.000	25384.482	49351158.15	7.1435	A	7.0
8	☐			19163.77	0.0026	P	9.5

$$y = 2.8141E-004 * x + 2.3925E-005$$

$$R = 0.9995$$

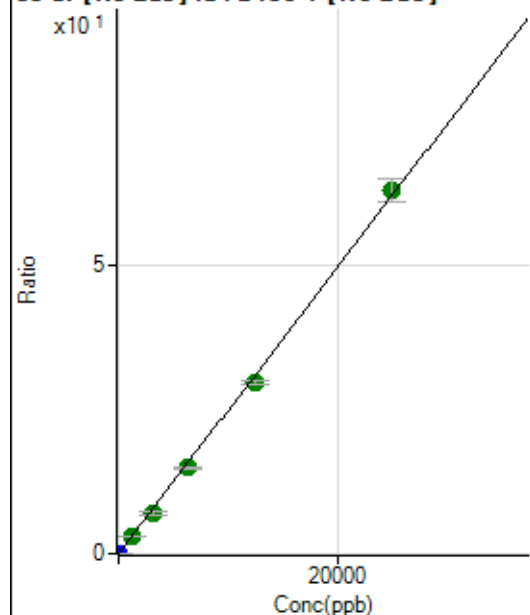
$$DL = 0.03065$$

$$BEC = 0.08502$$

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	665.58	0.0001	P	10.9
2	☐	1.000	0.912	19071.35	0.0023	P	1.5
3	☐	1250.000	1206.168	24223301.03	2.9833	A	0.9
4	☐	3125.000	2851.399	58852861.34	7.0526	A	7.4
5	☐	6250.000	5989.555	113386964.9	14.8143	A	0.9
6	☐	12500.000	11934.085	223247727.7	29.5172	A	2.1
7	☐	25000.000	25384.461	433883255.7	62.7845	A	6.4
8	☐			166603.47	0.0230	P	11.3

$$y = 0.0025 * x + 8.0860E-005$$

$$R = 0.9995$$

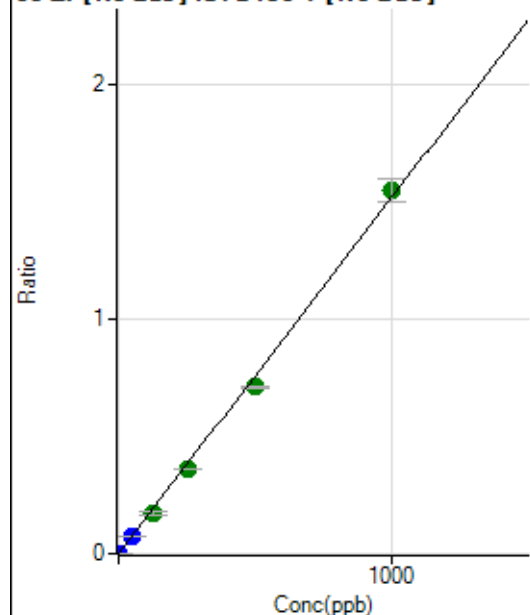
$$DL = 0.01068$$

$$BEC = 0.03269$$

Weight: <None>

Min Conc: 0

90 Zr [No Gas] ISTD: 89 Y [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	334.45	0.0000	P	7.9
2	☐	1.000	0.844	10797.40	0.0013	P	2.0
3	☐	50.000	48.205	595120.44	0.0733	P	0.6
4	☐	125.000	113.866	1444064.86	0.1731	A	7.8
5	☐	250.000	239.486	2785843.50	0.3640	A	0.4
6	☐	500.000	469.312	5394906.03	0.7132	A	1.4
7	☐	1000.000	1019.454	10705594.70	1.5493	A	6.5
8	☐			7907.75	0.0011	P	4.8

$$y = 0.0015 * x + 4.0680E-005$$

$$R = 0.9992$$

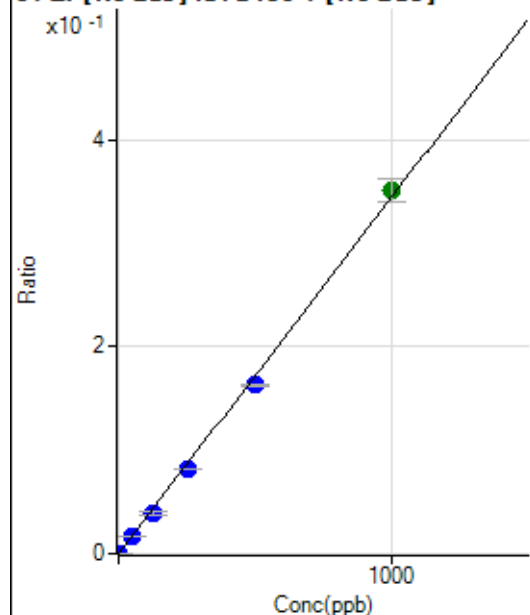
$$DL = 0.006379$$

$$BEC = 0.02677$$

Weight: <None>

Min Conc: 0

91 Zr [No Gas] ISTD: 89 Y [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	70.00	0.0000	P	21.5
2	☐	1.000	0.837	2422.45	0.0003	P	6.0
3	☐	50.000	47.698	133421.56	0.0164	P	0.6
4	☐	125.000	112.986	324754.12	0.0389	P	7.2
5	☐	250.000	238.102	627556.05	0.0820	P	1.2
6	☐	500.000	472.546	1230796.25	0.1627	P	1.5
7	☐	1000.000	1018.318	2423003.21	0.3506	A	6.5
8	☐			1777.90	0.0002	P	5.2

$$y = 3.4432E-004 * x + 8.5192E-006$$

$$R = 0.9993$$

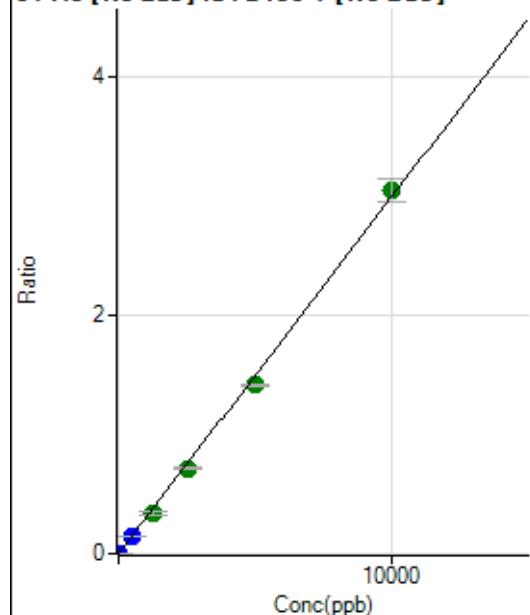
$$DL = 0.01595$$

$$BEC = 0.02474$$

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	278.89	0.0000	P	21.2
2	☐	5.000	5.187	12940.23	0.0016	P	1.8
3	☐	500.000	484.797	1177457.85	0.1450	P	0.6
4	☐	1250.000	1137.811	2840876.56	0.3403	A	6.6
5	☐	2500.000	2388.281	5466853.04	0.7143	A	1.3
6	☐	5000.000	4738.336	10718691.92	1.4171	A	1.3
7	☐	10000.000	10173.546	21025812.32	3.0425	A	6.3
8	☐			13981.23	0.0019	P	5.3

$$y = 2.9906\text{E-}004 * x + 3.3954\text{E-}005$$

$$R = 0.9994$$

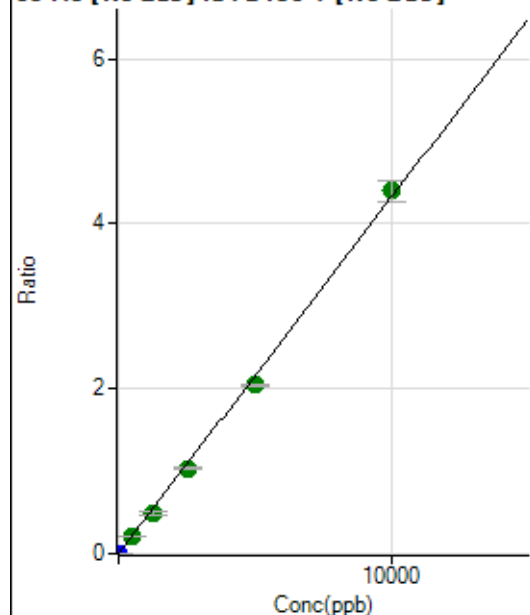
$$DL = 0.07234$$

$$BEC = 0.1135$$

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	552.24	0.0001	P	8.7
2	☐	5.000	4.553	16605.05	0.0020	P	3.3
3	☐	500.000	479.925	1684517.16	0.2075	A	0.7
4	☐	1250.000	1135.597	4094893.90	0.4908	A	7.9
5	☐	2500.000	2397.753	7931044.40	1.0362	A	1.4
6	☐	5000.000	4731.343	15467658.10	2.0447	A	1.1
7	☐	10000.000	10175.195	30391037.05	4.3972	A	6.2
8	☐			19388.54	0.0027	P	6.4

$$y = 4.3215\text{E-}004 * x + 6.7148\text{E-}005$$

$$R = 0.9994$$

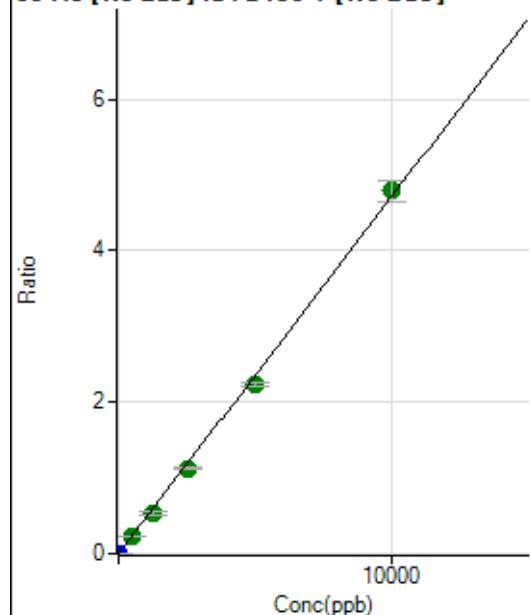
$$DL = 0.04034$$

$$BEC = 0.1554$$

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	183.34	0.0000	P	9.1
2	☐	5.000	4.488	17437.15	0.0021	P	3.1
3	☐	500.000	484.867	1854915.37	0.2285	A	0.8
4	☐	1250.000	1133.385	4456580.07	0.5340	A	7.1
5	☐	2500.000	2396.169	8640026.19	1.1289	A	1.7
6	☐	5000.000	4747.727	16918419.19	2.2368	A	2.0
7	☐	10000.000	10167.428	33106816.73	4.7901	A	6.1
8	☐			24114.43	0.0033	P	6.1

$$y = 4.7112\text{E-}004 * x + 2.2302\text{E-}005$$

$$R = 0.9994$$

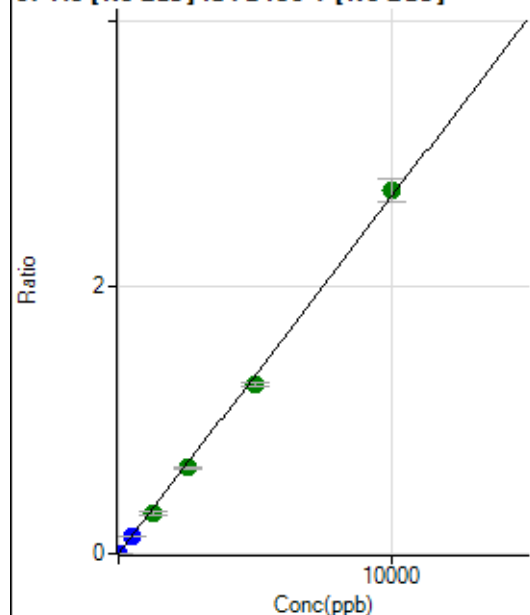
$$DL = 0.01295$$

$$BEC = 0.04734$$

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	170.00	0.0000	P	17.8
2	☐	5.000	4.466	9933.43	0.0012	P	0.6
3	☐	500.000	486.521	1058095.10	0.1303	P	0.5
4	☐	1250.000	1139.067	2545380.80	0.3051	A	7.7
5	☐	2500.000	2399.040	4917472.78	0.6425	A	1.7
6	☐	5000.000	4752.839	9627339.30	1.2729	A	2.3
7	☐	10000.000	10163.361	18808906.52	2.7218	A	6.5
8	☐			11689.22	0.0016	P	6.2

$$y = 2.6781\text{E-}004 * x + 2.0691\text{E-}005$$

$$R = 0.9995$$

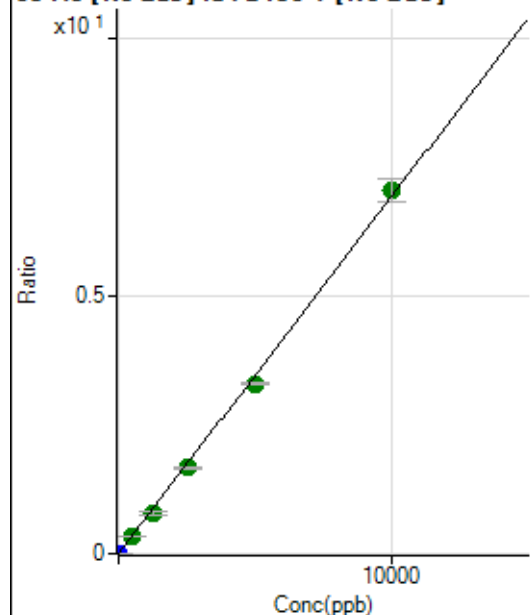
$$DL = 0.04121$$

$$BEC = 0.07726$$

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	231.11	0.0000	P	7.7
2	☐	5.000	4.518	25751.64	0.0032	P	3.8
3	☐	500.000	482.646	2712623.36	0.3341	A	0.6
4	☐	1250.000	1129.888	6529907.33	0.7821	A	6.3
5	☐	2500.000	2399.930	12713813.42	1.6611	A	1.2
6	☐	5000.000	4757.273	24905676.85	3.2927	A	1.5
7	☐	10000.000	10162.263	48607057.61	7.0337	A	6.4
8	☐			30208.10	0.0042	P	7.3

$$y = 6.9214\text{E-}004 * x + 2.8087\text{E-}005$$

$$R = 0.9995$$

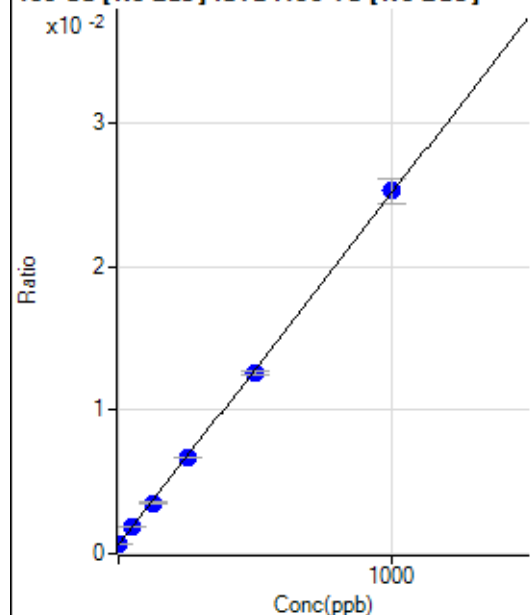
$$DL = 0.009349$$

$$BEC = 0.04058$$

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	4998.68	0.0006	P	1.6
2	☐	1.000	2.300	5394.38	0.0007	P	1.4
3	☐	50.000	52.563	15057.89	0.0019	P	2.3
4	☐	125.000	119.551	29003.43	0.0036	P	4.6
5	☐	250.000	247.514	50761.59	0.0067	P	0.8
6	☐	500.000	488.172	94489.15	0.0126	P	1.6
7	☐	1000.000	1007.087	175332.37	0.0253	P	6.6
8	☐			4567.44	0.0007	P	3.5

$$y = 2.4524\text{E-}005 * x + 6.2297\text{E-}004$$

$$R = 0.9999$$

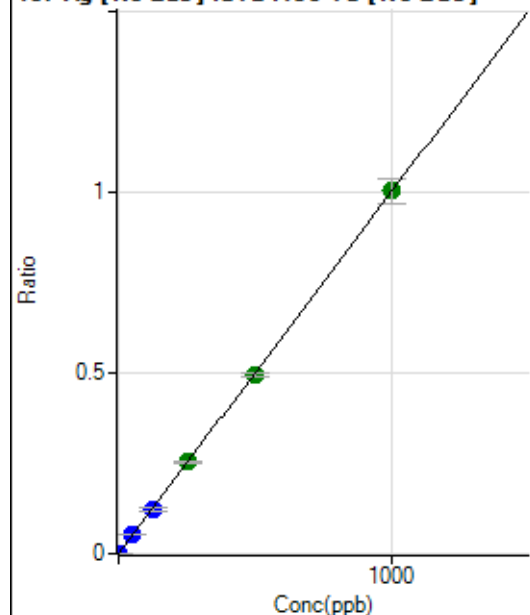
$$DL = 1.233$$

$$BEC = 25.4$$

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	67.78	0.0000	P	21.9
2	☐	1.000	0.938	7517.57	0.0009	P	2.8
3	☐	50.000	52.113	410828.76	0.0522	P	0.6
4	☐	125.000	121.706	992717.53	0.1218	P	6.8
5	☐	250.000	252.892	1919443.15	0.2531	A	1.1
6	☐	500.000	493.022	3701035.88	0.4934	A	1.7
7	☐	1000.000	1003.072	6950118.78	1.0038	A	6.7
8	☐			2536.92	0.0004	P	16.2

$$y = 0.0010 * x + 8.4427E-006$$

$$R = 0.9999$$

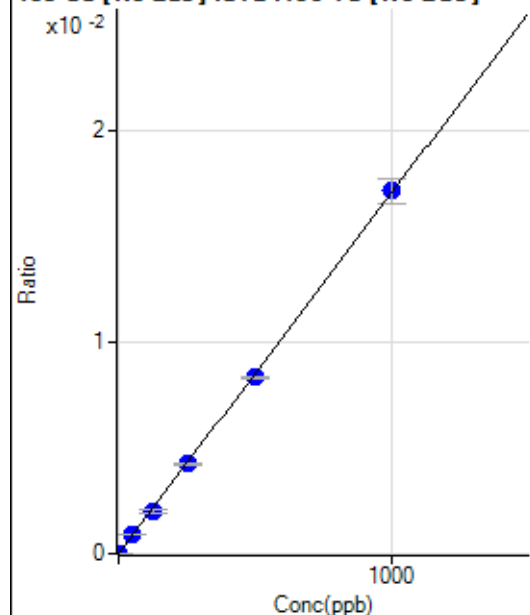
$$DL = 0.005546$$

$$BEC = 0.008437$$

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	13.33	0.0000	P	66.8
2	☐	1.000	1.016	151.12	0.0000	P	7.0
3	☐	50.000	51.994	7002.85	0.0009	P	0.9
4	☐	125.000	118.041	16422.74	0.0020	P	8.2
5	☐	250.000	248.643	32199.09	0.0042	P	2.4
6	☐	500.000	489.094	62639.94	0.0083	P	1.3
7	☐	1000.000	1006.562	118932.56	0.0172	P	7.2
8	☐			123.33	0.0000	P	10.0

$$y = 1.7067E-005 * x + 1.6666E-006$$

$$R = 0.9999$$

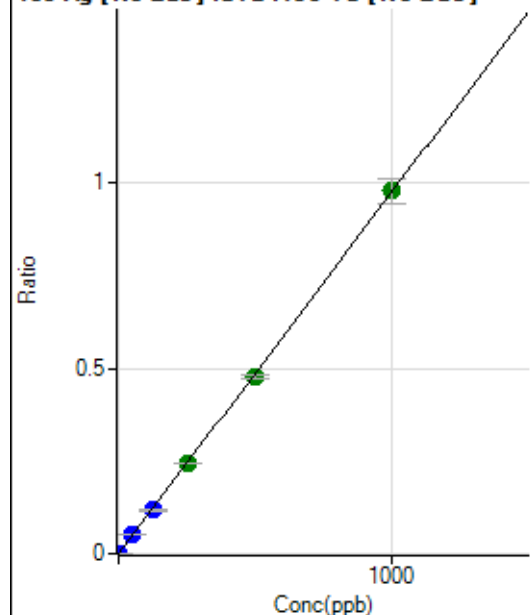
$$DL = 0.1956$$

$$BEC = 0.09765$$

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	35.56	0.0000	P	24.0
2	☐	1.000	0.915	7108.47	0.0009	P	1.5
3	☐	50.000	51.545	395422.94	0.0502	P	0.2
4	☐	125.000	120.458	956205.61	0.1173	P	6.7
5	☐	250.000	251.472	1857480.60	0.2449	A	0.9
6	☐	500.000	490.534	3583709.36	0.4777	A	1.4
7	☐	1000.000	1004.855	6774620.04	0.9786	A	7.1
8	☐			2465.79	0.0004	P	14.5

$$y = 9.7389\text{E-}004 * x + 4.4337\text{E-}006$$

$$R = 0.9999$$

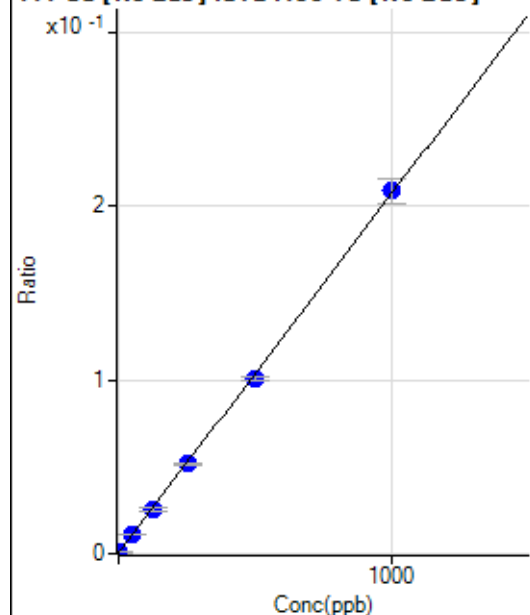
$$DL = 0.003273$$

$$BEC = 0.004553$$

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	3494.19	0.0004	P	1.6
2	☐	1.000	1.081	5231.50	0.0007	P	3.3
3	☐	50.000	51.546	87405.11	0.0111	P	0.7
4	☐	125.000	120.770	207115.88	0.0254	P	7.1
5	☐	250.000	247.506	391580.50	0.0516	P	0.9
6	☐	500.000	485.401	756513.61	0.1008	P	1.5
7	☐	1000.000	1008.374	1447065.07	0.2090	P	6.9
8	☐			3633.11	0.0005	P	1.2

$$y = 2.0684\text{E-}004 * x + 4.3547\text{E-}004$$

$$R = 0.9998$$

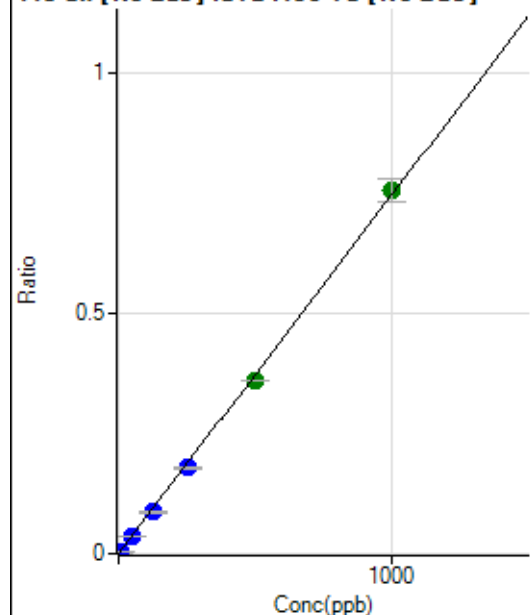
$$DL = 0.1039$$

$$BEC = 2.105$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1037.83	0.0001	P	3.5
2	☐	5.000	4.534	27829.11	0.0035	P	1.9
3	☐	50.000	49.120	289094.58	0.0367	P	1.0
4	☐	125.000	115.249	700448.82	0.0859	P	6.9
5	☐	250.000	239.011	1350785.02	0.1781	P	0.9
6	☐	500.000	483.578	2702382.53	0.3602	A	0.6
7	☐	1000.000	1012.223	5220253.91	0.7539	A	6.5
8	☐			5503.32	0.0008	P	5.2

$$y = 7.4462\text{E-}004 * x + 1.2934\text{E-}004$$

$$R = 0.9997$$

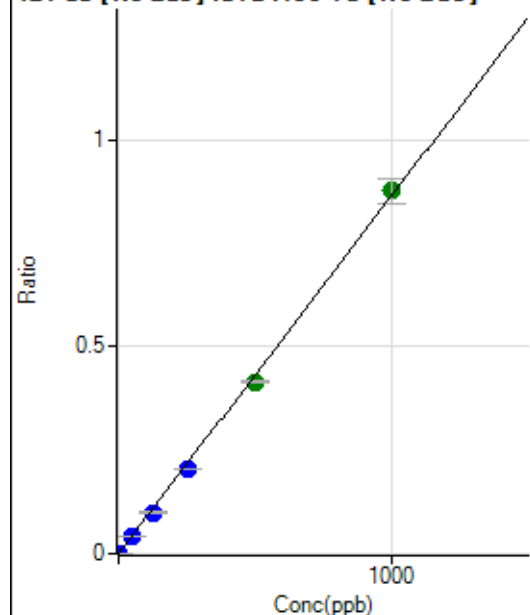
$$DL = 0.01819$$

$$BEC = 0.1737$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	56.67	0.0000	P	40.6
2	☐	2.000	1.789	12332.01	0.0016	P	3.9
3	☐	50.000	48.371	329507.23	0.0418	P	0.4
4	☐	125.000	114.572	807597.05	0.0991	P	6.7
5	☐	250.000	237.548	1558013.85	0.2054	P	1.0
6	☐	500.000	480.913	3119878.56	0.4159	A	2.0
7	☐	1000.000	1014.042	6071975.60	0.8769	A	6.6
8	☐			5632.26	0.0008	P	1.0

$$y = 8.6475\text{E-}004 * x + 7.0490\text{E-}006$$

$$R = 0.9996$$

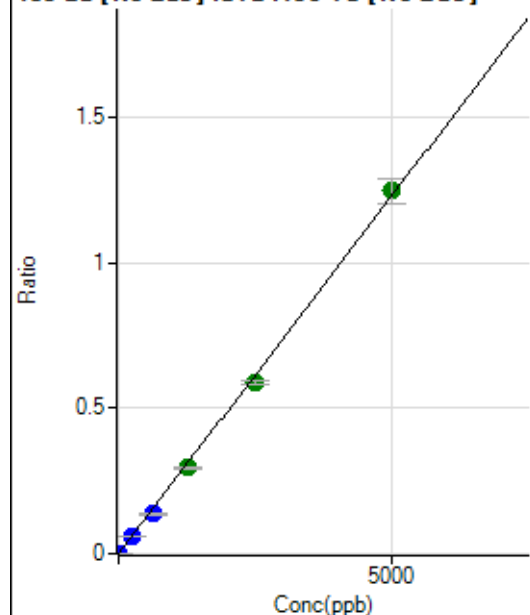
$$DL = 0.009923$$

$$BEC = 0.008152$$

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	16.67	0.0000	P	40.6
2	☐	10.000	8.743	17065.86	0.0022	P	3.2
3	☐	250.000	237.846	460268.14	0.0584	P	0.9
4	☐	625.000	558.445	1118357.29	0.1372	P	6.6
5	☐	1250.000	1207.152	2249429.31	0.2966	A	1.7
6	☐	2500.000	2387.924	4401167.37	0.5867	A	2.1
7	☐	5000.000	5075.679	8632210.56	1.2470	A	7.2
8	☐			4893.12	0.0007	P	6.0

$$y = 2.4569\text{E-}004 * x + 2.0810\text{E-}006$$

$$R = 0.9995$$

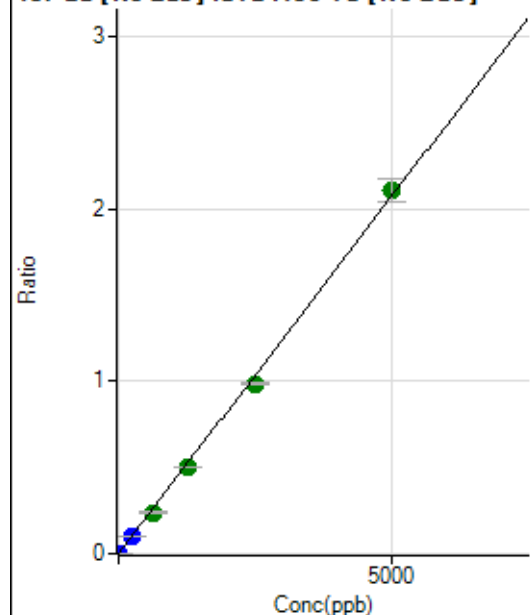
$$DL = 0.01032$$

$$BEC = 0.00847$$

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	54.44	0.0000	P	26.9
2	☐	10.000	8.840	29163.26	0.0037	P	3.5
3	☐	250.000	239.809	783672.13	0.0995	P	0.7
4	☐	625.000	576.249	1949319.02	0.2391	A	6.0
5	☐	1250.000	1203.669	3787504.39	0.4994	A	1.0
6	☐	2500.000	2380.033	7407986.07	0.9874	A	0.8
7	☐	5000.000	5078.172	14590548.53	2.1068	A	6.4
8	☐			8131.31	0.0012	P	9.3

$$y = 4.1488\text{E-}004 * x + 6.7767\text{E-}006$$

$$R = 0.9995$$

$$DL = 0.01321$$

$$BEC = 0.01633$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.89		P	43.3
2	☐			17.78		P	84.6
3	☐			127.78		P	14.4
4	☐			290.01		P	14.1
5	☐			480.01		P	9.7
6	☐			980.04		P	8.6
7	☐			1885.70		P	1.0
8	☐			136.67		P	17.1

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6.67		P	0.0
2	☐			4.45		P	86.6
3	☐			17.78		P	57.3
4	☐			55.56		P	9.2
5	☐			84.44		P	16.4
6	☐			176.67		P	5.0
7	☐			341.12		P	13.7
8	☐			87.78		P	14.4

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.89		P	108.
2	☐			15.55		P	44.6
3	☐			31.11		P	6.2
4	☐			75.56		P	33.7
5	☐			132.22		P	17.7
6	☐			223.34		P	5.4
7	☐			486.68		P	6.6
8	☐			291.12		P	7.6

156 Dy [He] No available calibration points

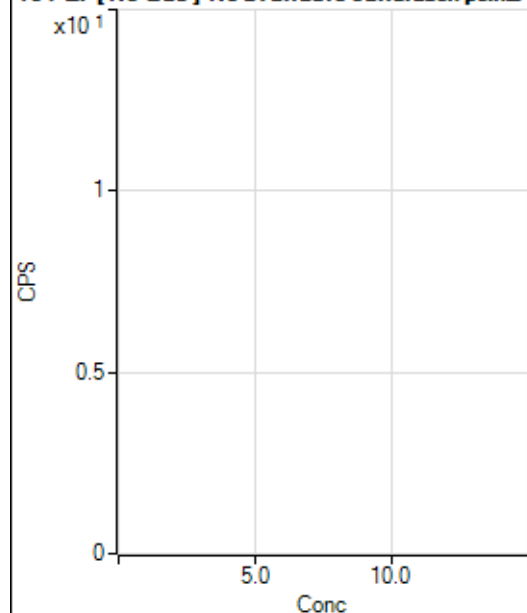
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.44		P	43.4
2	☐			7.78		P	49.5
3	☐			34.44		P	49.7
4	☐			61.11		P	22.7
5	☐			104.44		P	14.4
6	☐			221.12		P	22.4
7	☐			454.46		P	6.4
8	☐			135.56		P	30.0

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

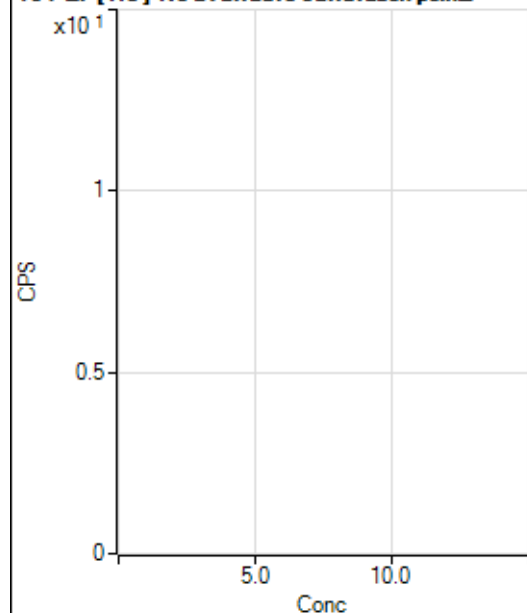
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			44.44		P	26.3
2	☐			47.78		P	21.3
3	☐			53.33		P	47.2
4	☐			66.67		P	18.0
5	☐			80.00		P	27.3
6	☐			131.11		P	20.7
7	☐			201.12		P	25.5
8	☐			224.45		P	13.3

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			260.00		P	2.2
2	☐			273.34		P	18.4
3	☐			237.78		P	5.8
4	☐			244.45		P	15.8
5	☐			224.45		P	7.0
6	☐			257.78		P	13.3
7	☐			266.67		P	17.2
8	☐			315.56		P	13.2

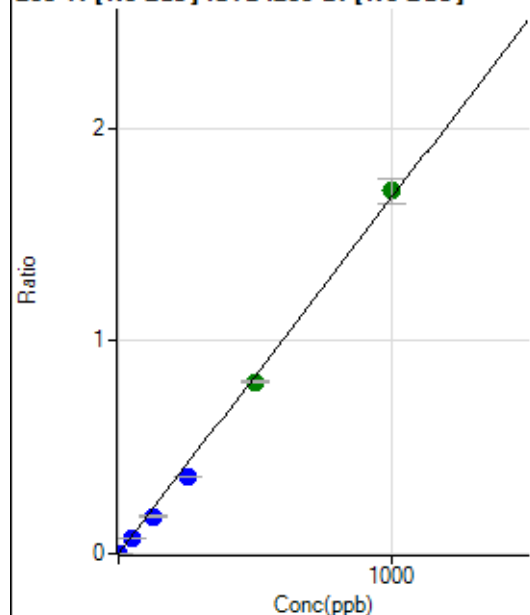
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			45.56		P	11.2
2	☐			66.67		P	13.2
3	☐			68.89		P	32.2
4	☐			86.67		P	15.4
5	☐			87.78		P	20.9
6	☐			120.00		P	9.6
7	☐			198.89		P	25.4
8	☐			278.89		P	23.5

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			40.00		P	22.0
2	☐			28.89		P	54.5
3	☐			31.11		P	32.7
4	☐			37.78		P	36.7
5	☐			43.33		P	20.4
6	☐			82.22		P	20.0
7	☐			124.45		P	24.3
8	☐			176.67		P	9.4

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	70.00	0.0000	P	9.9
2	☐	1.000	0.821	6146.99	0.0014	P	3.0
3	☐	50.000	44.162	323441.85	0.0740	P	0.9
4	☐	125.000	103.634	786725.67	0.1735	P	5.1
5	☐	250.000	217.615	1543053.21	0.3644	P	0.8
6	☐	500.000	483.280	3327112.73	0.8093	A	0.7
7	☐	1000.000	1019.419	6382450.81	1.7070	A	6.8
8	☐			2061.30	0.0006	P	16.7

$$y = 0.0017 * x + 1.5299E-005$$

$$R = 0.9991$$

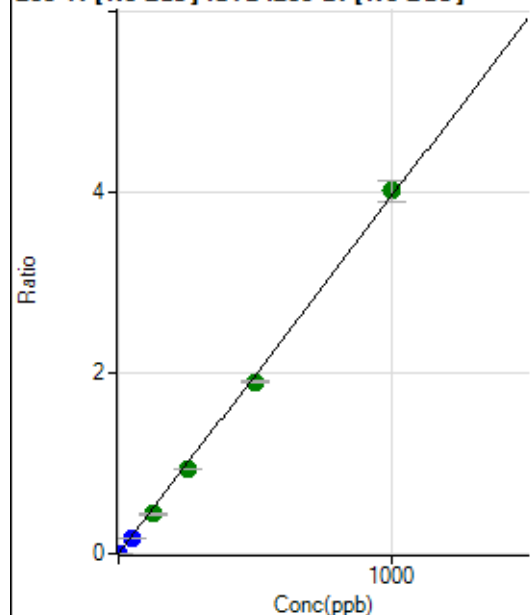
$$DL = 0.002722$$

$$BEC = 0.009136$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	213.34	0.0000	P	17.5
2	☐	1.000	0.808	14337.68	0.0032	P	2.2
3	☐	50.000	43.919	759513.76	0.1737	P	1.0
4	☐	125.000	112.103	2009354.80	0.4433	A	5.1
5	☐	250.000	236.318	3956541.47	0.9344	A	1.1
6	☐	500.000	479.871	7800226.20	1.8973	A	1.4
7	☐	1000.000	1015.401	15019432.97	4.0145	A	5.5
8	☐			4685.31	0.0014	P	13.5

$$y = 0.0040 * x + 4.6583E-005$$

$$R = 0.9996$$

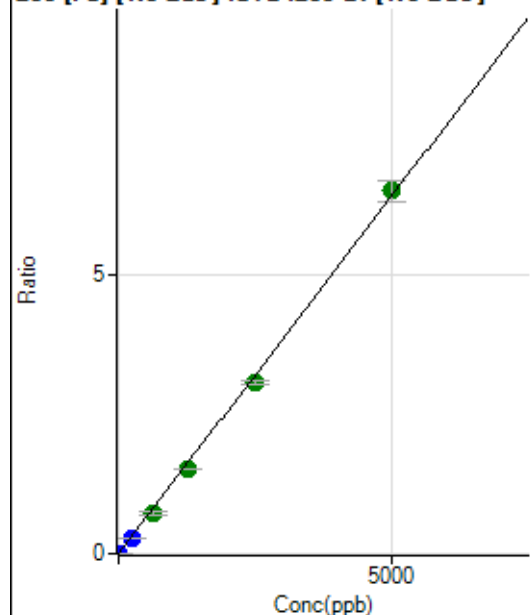
$$DL = 0.006188$$

$$BEC = 0.01178$$

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	302.23	0.0001	P	20.6
2	☐	1.000	0.818	4926.49	0.0011	P	4.7
3	☐	250.000	226.347	1268789.74	0.2901	P	0.8
4	☐	625.000	565.197	3283778.56	0.7244	A	5.2
5	☐	1250.000	1184.217	6426640.04	1.5177	A	0.4
6	☐	2500.000	2399.438	12642565.65	3.0751	A	2.1
7	☐	5000.000	5075.385	24327154.92	6.5046	A	6.2
8	☐			14127.48	0.0041	P	6.5

$$y = 0.0013 * x + 6.6051E-005$$

$$R = 0.9996$$

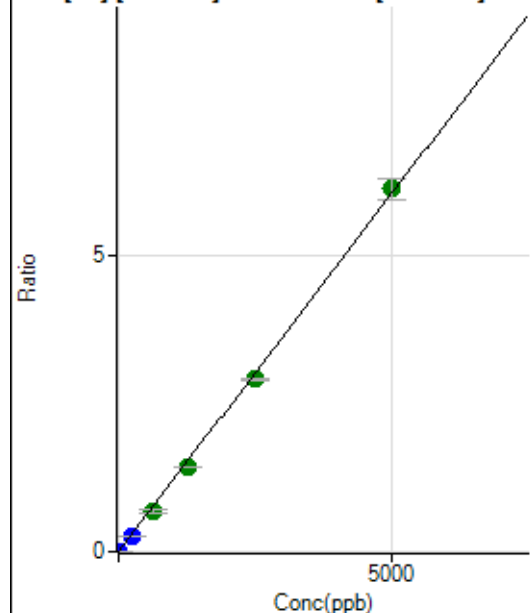
$$DL = 0.03179$$

$$BEC = 0.05154$$

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	286.67	0.0001	P	10.1
2	☐	1.000	0.831	4719.75	0.0011	P	1.7
3	☐	250.000	217.362	1150371.28	0.2631	P	1.2
4	☐	625.000	567.227	3110505.51	0.6864	A	6.0
5	☐	1250.000	1187.992	6087352.48	1.4375	A	0.6
6	☐	2500.000	2409.842	11988324.54	2.9159	A	0.8
7	☐	5000.000	5069.434	22943598.82	6.1340	A	6.0
8	☐			13178.78	0.0038	P	7.1

$$y = 0.0012 * x + 6.2637E-005$$

$$R = 0.9997$$

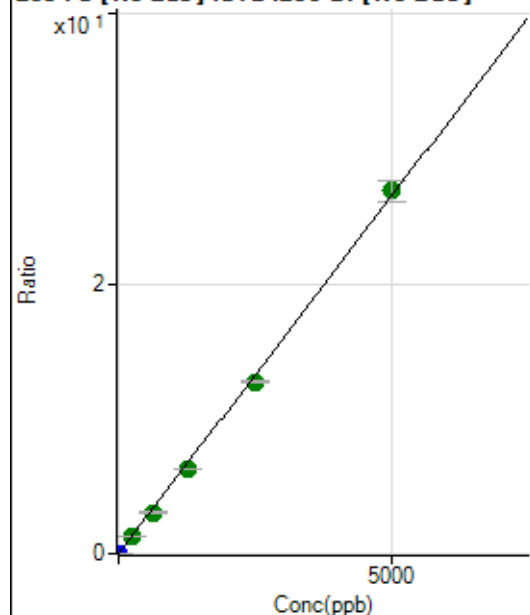
$$DL = 0.01569$$

$$BEC = 0.05177$$

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	1277.82	0.0003	P	7.8
2	☐	1.000	0.822	20488.44	0.0046	P	3.4
3	☐	250.000	232.352	5387369.59	1.2320	A	1.2
4	☐	625.000	567.563	13639459.45	3.0090	A	5.3
5	☐	1250.000	1186.016	26624525.79	6.2876	A	0.3
6	☐	2500.000	2402.022	52352200.89	12.7338	A	1.1
7	☐	5000.000	5073.047	100596699.0	26.8934	A	5.9
8	☐			58129.31	0.0170	P	6.3

$$y = 0.0053 * x + 2.7928E-004$$

$$R = 0.9996$$

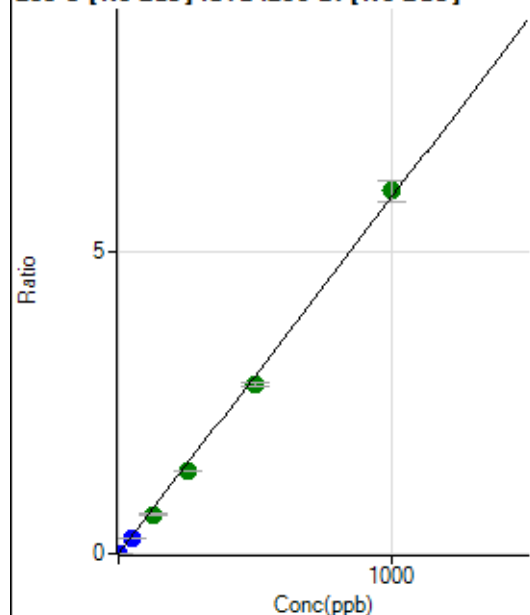
$$DL = 0.01236$$

$$BEC = 0.05268$$

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	18.89	0.0000	P	27.3
2	☐	1.000	0.773	20144.19	0.0046	P	2.1
3	☐	50.000	42.351	1091362.58	0.2496	P	1.2
4	☐	125.000	110.657	2955493.22	0.6521	A	5.7
5	☐	250.000	231.901	5786892.48	1.3666	A	0.9
6	☐	500.000	476.293	11539204.55	2.8067	A	2.0
7	☐	1000.000	1018.554	22454326.75	6.0021	A	5.6
8	☐			5315.58	0.0015	P	15.2

$$y = 0.0059 * x + 4.1288E-006$$

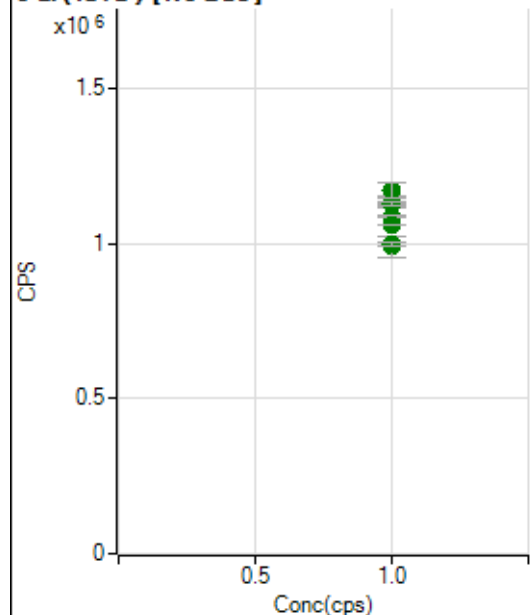
$$R = 0.9994$$

$$DL = 0.0005733$$

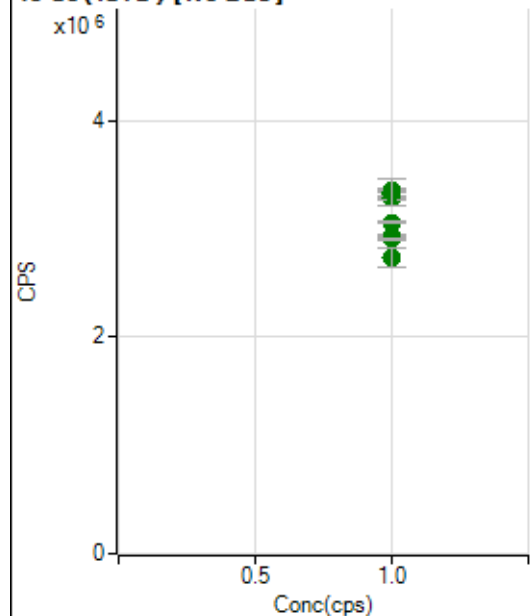
$$BEC = 0.0007007$$

Weight: <None>

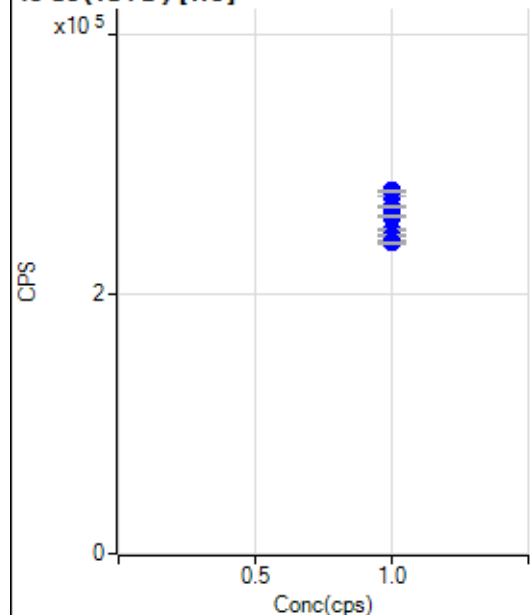
Min Conc: 0

6 Li (ISTD) [No Gas]

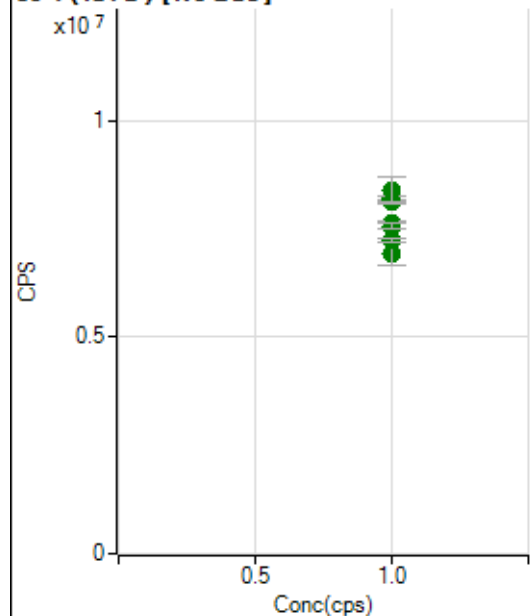
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1134156.42		A	0.9
2	☐	1.000		1136375.63		A	3.5
3	☐	1.000		1129938.36		A	0.7
4	☐	1.000		1171711.69		A	4.3
5	☐	1.000		1089485.55		A	0.9
6	☐	1.000		1061886.26		A	0.4
7	☐	1.000		990629.40		A	6.9
8	☐	1.000		1001125.45		A	1.0

45 Sc (ISTD) [No Gas]

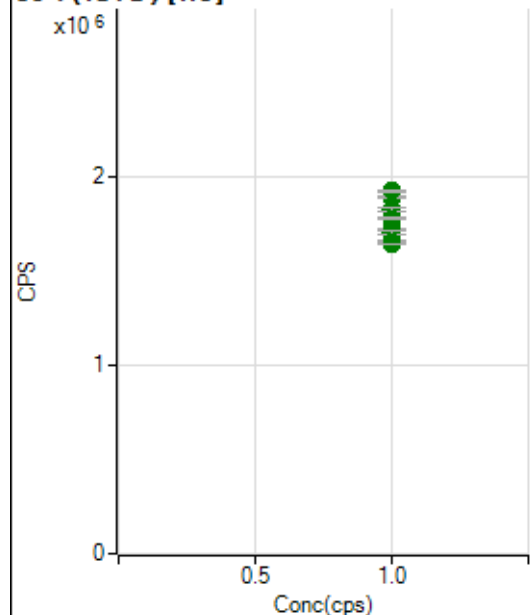
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3350046.65		A	0.9
2	☐	1.000		3320341.65		A	2.1
3	☐	1.000		3292505.16		A	1.1
4	☐	1.000		3332020.02		A	7.4
5	☐	1.000		3059760.65		A	0.6
6	☐	1.000		2936278.64		A	0.4
7	☐	1.000		2737270.50		A	6.7
8	☐	1.000		2903420.48		A	0.5

45 Sc (ISTD) [He]

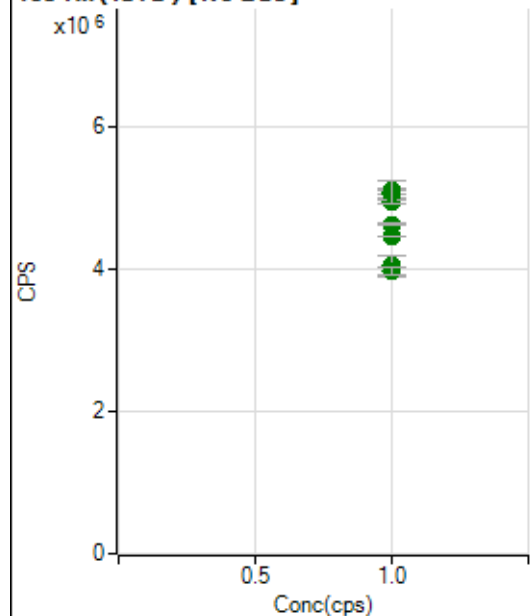
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		275165.67		P	0.2
2	☐	1.000		279386.82		P	0.3
3	☐	1.000		267104.82		P	0.8
4	☐	1.000		259585.76		P	0.3
5	☐	1.000		249292.25		P	0.3
6	☐	1.000		244675.09		P	0.6
7	☐	1.000		239952.75		P	1.2
8	☐	1.000		239584.33		P	0.4

89 Y (ISTD) [No Gas]

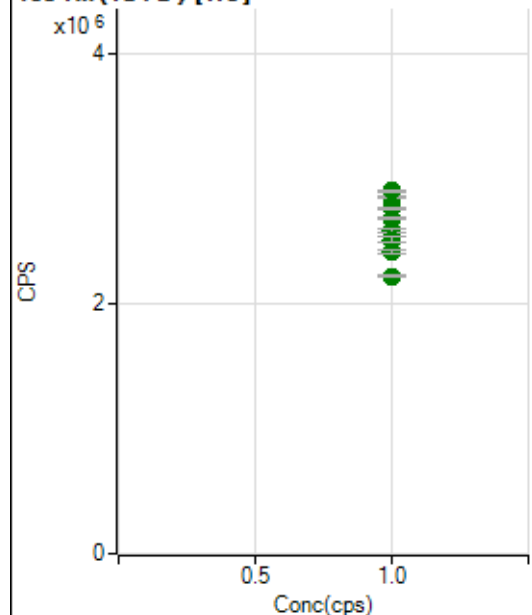
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8226282.52		A	1.2
2	☐	1.000		8164394.74		A	1.8
3	☐	1.000		8119640.30		A	0.4
4	☐	1.000		8375000.22		A	7.3
5	☐	1.000		7654049.75		A	0.6
6	☐	1.000		7564964.68		A	1.7
7	☐	1.000		6932604.69		A	7.5
8	☐	1.000		7246396.49		A	1.5

89 Y (ISTD) [He]

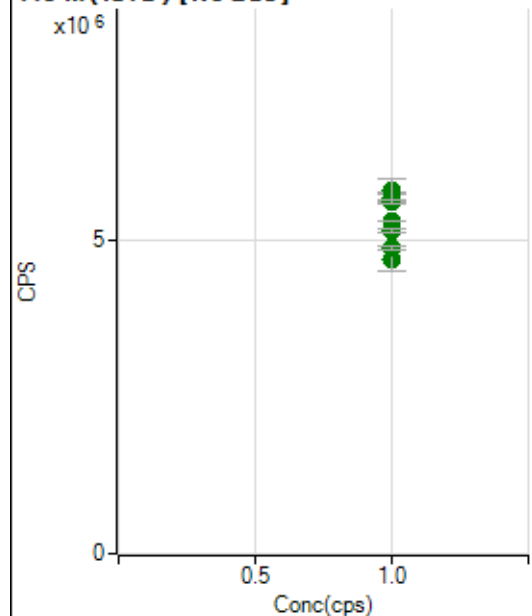
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1888959.31		A	0.7
2	☐	1.000		1923275.20		A	0.7
3	☐	1.000		1827752.70		A	0.9
4	☐	1.000		1777119.16		A	0.8
5	☐	1.000		1719594.71		A	1.0
6	☐	1.000		1705533.48		A	1.1
7	☐	1.000		1655860.48		A	0.3
8	☐	1.000		1642036.71		A	0.1

103 Rh (ISTD) [No Gas]

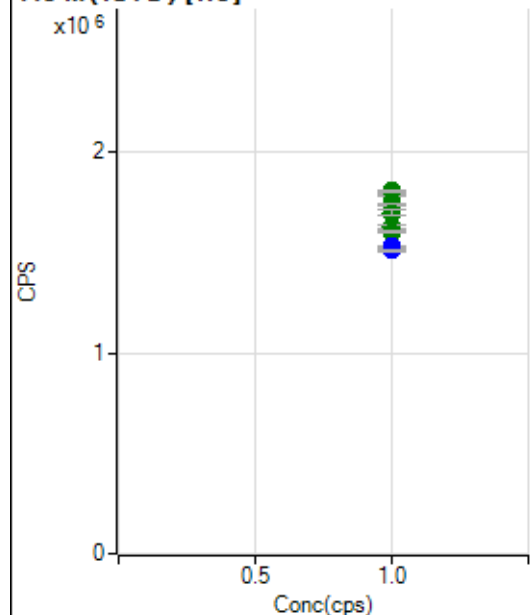
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5093559.02		A	1.4
2	☐	1.000		5036742.46		A	2.1
3	☐	1.000		4946134.23		A	1.3
4	☐	1.000		5070089.72		A	6.5
5	☐	1.000		4617920.00		A	0.5
6	☐	1.000		4447616.53		A	0.2
7	☐	1.000		4048812.79		A	7.3
8	☐	1.000		3974574.00		A	2.3

103 Rh (ISTD) [He]

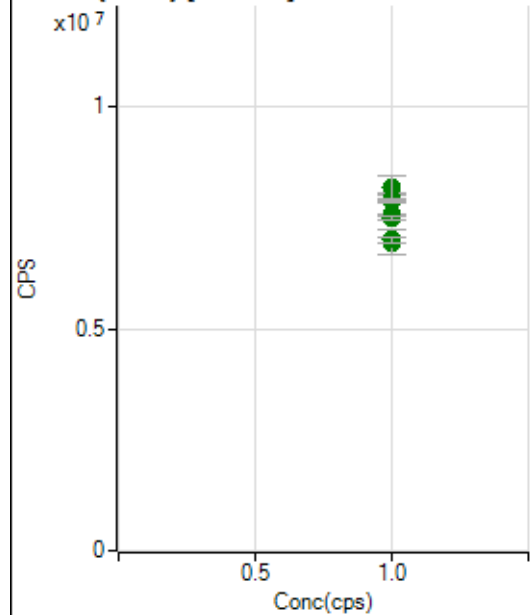
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2848109.05		A	0.3
2	☐	1.000		2899065.61		A	0.5
3	☐	1.000		2760881.18		A	0.7
4	☐	1.000		2680560.19		A	0.8
5	☐	1.000		2583238.04		A	0.8
6	☐	1.000		2509999.35		A	2.2
7	☐	1.000		2412244.48		A	1.2
8	☐	1.000		2216196.11		A	0.7

115 In (ISTD) [No Gas]

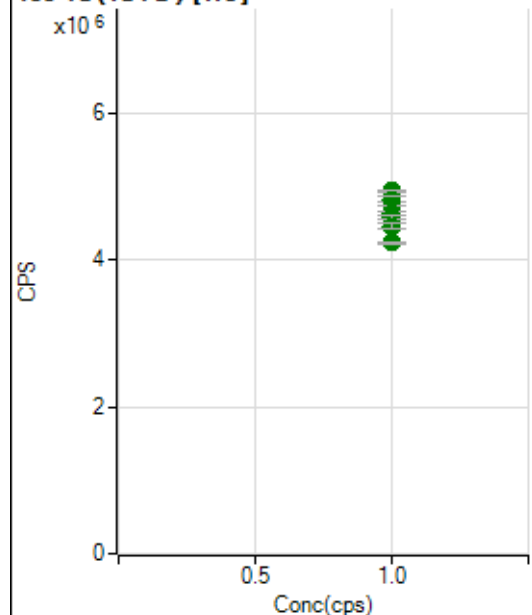
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5770193.64		A	0.4
2	☐	1.000		5674781.86		A	1.9
3	☐	1.000		5611580.52		A	1.6
4	☐	1.000		5786498.73		A	6.5
5	☐	1.000		5314664.95		A	0.0
6	☐	1.000		5161879.62		A	1.3
7	☐	1.000		4680168.62		A	7.2
8	☐	1.000		4868207.32		A	1.5

115 In (ISTD) [He]

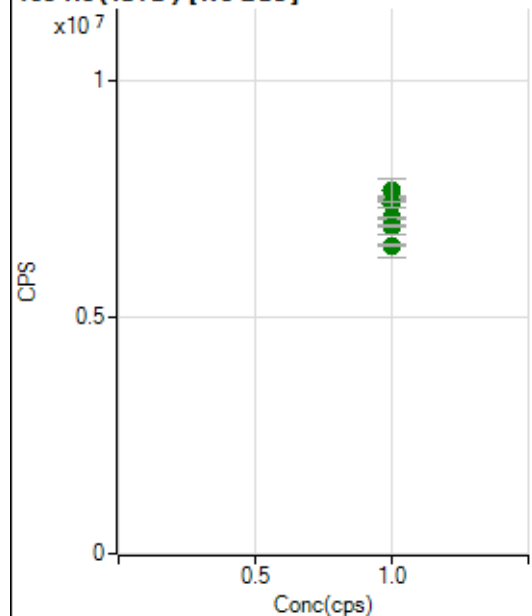
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1788496.27		A	0.6
2	☐	1.000		1809346.79		A	0.6
3	☐	1.000		1739854.48		A	0.9
4	☐	1.000		1701662.97		A	1.2
5	☐	1.000		1628196.11		A	0.9
6	☐	1.000		1603733.95		A	0.6
7	☐	1.000		1532167.47		P	0.8
8	☐	1.000		1512192.05		P	0.5

159 Tb (ISTD) [No Gas]

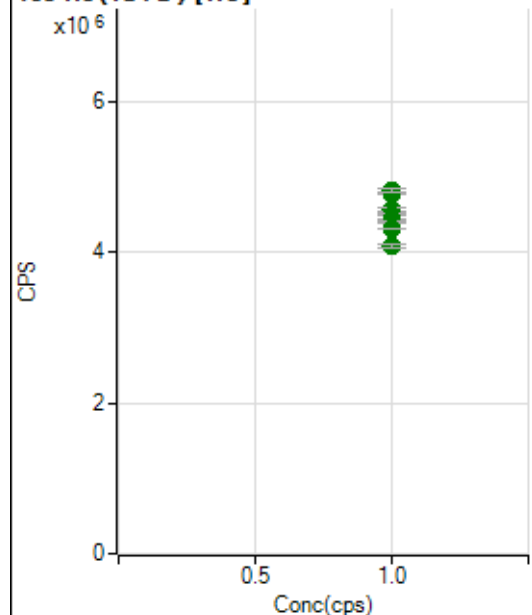
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8023962.80		A	0.7
2	☐	1.000		7941312.66		A	2.5
3	☐	1.000		7876513.28		A	1.0
4	☐	1.000		8175824.81		A	6.9
5	☐	1.000		7584361.90		A	0.2
6	☐	1.000		7502469.12		A	1.3
7	☐	1.000		6948309.83		A	7.8
8	☐	1.000		6998851.22		A	1.5

159 Tb (ISTD) [He]

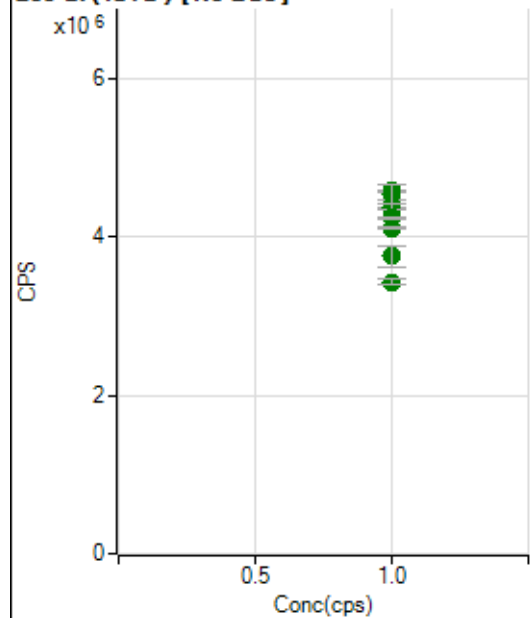
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4935647.01		A	0.5
2	☐	1.000		4944328.23		A	0.3
3	☐	1.000		4834357.64		A	1.1
4	☐	1.000		4737424.48		A	0.2
5	☐	1.000		4634801.94		A	0.7
6	☐	1.000		4580987.08		A	1.3
7	☐	1.000		4465621.22		A	1.4
8	☐	1.000		4232517.27		A	0.9

165 Ho (ISTD) [No Gas]

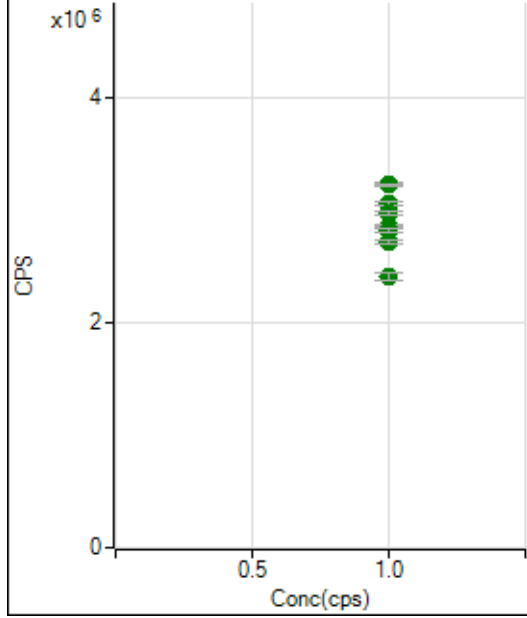
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7552925.72		A	0.5
2	☐	1.000		7406801.49		A	2.5
3	☐	1.000		7403497.18		A	1.6
4	☐	1.000		7681213.22		A	6.3
5	☐	1.000		7116611.70		A	0.5
6	☐	1.000		6936326.63		A	0.2
7	☐	1.000		6519660.32		A	7.1
8	☐	1.000		6524006.57		A	0.9

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4783326.04		A	0.7
2	☐	1.000		4818262.15		A	1.0
3	☐	1.000		4568098.37		A	1.4
4	☐	1.000		4506245.28		A	0.5
5	☐	1.000		4434060.07		A	0.7
6	☐	1.000		4401430.63		A	0.9
7	☐	1.000		4309375.35		A	0.2
8	☐	1.000		4080797.26		A	1.2

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4576725.24		A	0.6
2	☐	1.000		4422196.11		A	2.4
3	☐	1.000		4373267.16		A	1.9
4	☐	1.000		4541650.00		A	5.5
5	☐	1.000		4234471.95		A	1.0
6	☐	1.000		4111382.75		A	0.4
7	☐	1.000		3751168.73		A	7.2
8	☐	1.000		3424649.29		A	2.1

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3220282.38		A	1.0
2	☐	1.000		3217583.74		A	1.0
3	☐	1.000		3055187.66		A	1.0
4	☐	1.000		2965321.47		A	1.2
5	☐	1.000		2857799.71		A	0.7
6	☐	1.000		2823115.19		A	1.3
7	☐	1.000		2709306.07		A	1.1
8	☐	1.000		2403695.12		A	2.6

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7051724-PM.b

Acq. Date-Time 2024-05-17 09:46:19

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		6410	64096.35			0.483	5.000
24		56854	568539.89			0.313	5.000
25		7387	73871.38			0.426	5.000
26		8789	87891.92			0.576	5.000
59		59489	594886.32			0.289	5.000
113		8233	82327.14			0.466	5.000
115		103430	1034301.23			0.769	5.000
206		25506	255057.51			0.382	5.000
207		23336	233361.95			0.321	5.000
208		55394	553943.46			0.160	5.000
220		0	1.60			60.111	

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

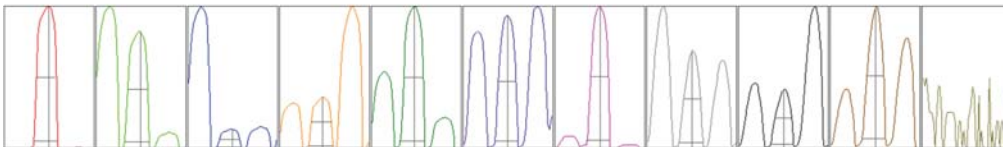
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	6440	6380	6439	6414	6375
24	56613	56755	56856	57052	56995
25	7344	7365	7413	7400	7414
26	8721	8761	8791	8849	8825
59	59715	59291	59593	59359	59485
113	8301	8218	8219	8218	8208
115	104531	103100	103850	103237	102433
206	25616	25589	25506	25417	25401
207	23424	23314	23345	23224	23374
208	55432	55333	55510	55283	55413

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	9817.80	9.00	8.90 - 9.10	
24	88062.26	24.00	23.90 - 24.10	
25	11388.53	25.00	24.90 - 25.10	
26	12943.03	25.95	25.90 - 26.10	
59	93802.51	58.95	58.90 - 59.10	
113	14455.66	113.00	112.90 - 113.10	
115	180773.27	115.05	114.90 - 115.10	
206	47542.83	206.05	205.90 - 206.10	
207	42938.86	207.05	206.90 - 207.10	
208	102468.60	208.05	207.90 - 208.10	
220	0.00	220.30	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.67	0.789	0.900	
24	0.68	0.830	0.900	
25	0.67	0.814	0.900	
26	0.68	0.815	0.900	
59	0.66	0.819	0.900	
113	0.58	0.779	0.900	
115	0.58	0.769	0.900	
206	0.55	0.810	0.900	
207	0.56	0.772	0.900	
208	0.55	0.788	0.900	
220	0.33	0.325		

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	8.3 V	Deflect	15.0 V
Extract 2	-125.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-70 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	190 V		

QP Parameters

Mass Gain	134	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	0.4 mm
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EM

Discriminator	4.7 mV	Analog HV	2303 V	Pulse HV	1347 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		18387	183872.00			0.319	
89		23824	238244.71			0.335	
205		25943	259430.35			0.303	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	18380	18422	18288	18413	18433
89	23705	23824	23888	23801	23905
205	25931	26055	25892	25983	25855

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	8.5 V	Deflect	2.8 V
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US EPA Tune Check Report

Extract 2	-125.0 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	0.9976	QP Bias	-13.0 V
Mass Offset	129	Axis Offset	0.13		
Hardware Settings					
Torch					
Torch H	-0.3 mm	Torch V	0.4 mm		
EM					
Discriminator	4.7 mV	Analog HV	2303 V	Pulse HV	1347 V