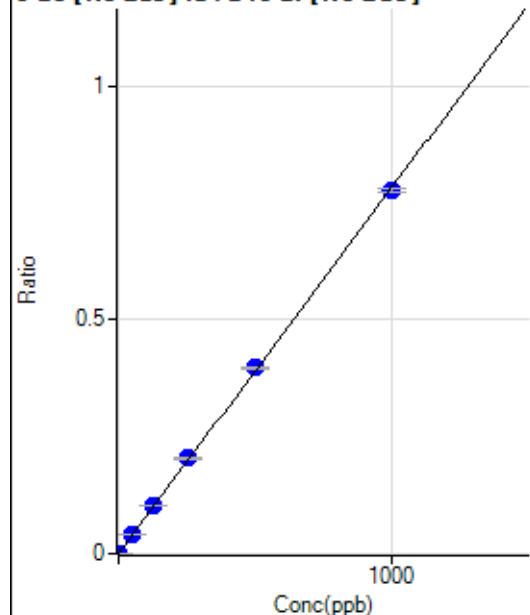


Batch Folder: C:\Agilent\ICPMH\1\DATA\P7062321MS.b\
Analysis File: P7062321MS.batch.bin
DA Date-Time: 2021-07-13 13:48:27
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	002CALB.d	S00	2021-06-23 10:51:41
2	005CALS.d	S02	2021-06-23 11:01:05
3	006CALS.d	S03	2021-06-23 11:04:13
4	007CALS.d	S04	2021-06-23 11:07:20
5	008CALS.d	S05	2021-06-23 11:10:27
6	009CALS.d	S06	2021-06-23 11:13:32
7	010CALS.d	S07	2021-06-23 11:16:32
8	011CALS.d	S08	2021-06-23 11:19:31

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	29.63	0.0000	P	39.4
2	☐	1.000	1.162	1279.70	0.0009	P	11.6
3	☐	50.000	54.248	57850.49	0.0424	P	0.5
4	☐	125.000	132.149	141768.40	0.1033	P	1.1
5	☐	250.000	260.616	273847.62	0.2037	P	0.3
6	☐	500.000	508.258	525626.26	0.3973	P	0.8
7	☐	1000.000	992.111	951180.69	0.7755	P	1.1
8	☐			255.56	0.0002	P	13.1

$$y = 7.8166\text{E-}004 * x + 2.2357\text{E-}005$$

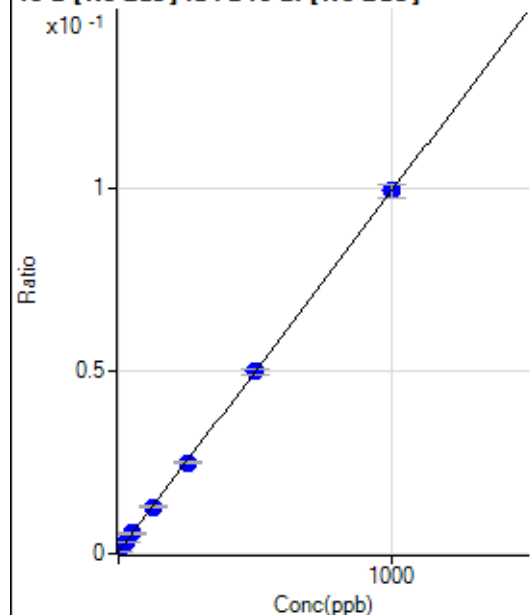
$$R = 0.9999$$

$$DL = 0.03385$$

$$BEC = 0.0286$$

Weight: <None>

Min Conc: 0

10 B [No Gas] ISTD:6 Li [No Gas]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	616.69	0.0005	P	7.4
2	☐	25.000	25.659	4117.32	0.0030	P	4.7
3	☐	50.000	51.269	7532.61	0.0055	P	4.7
4	☐	125.000	125.403	17616.17	0.0128	P	1.2
5	☐	250.000	247.024	33387.22	0.0248	P	2.7
6	☐	500.000	500.316	65921.34	0.0498	P	3.0
7	☐	1000.000	1000.456	121606.80	0.0992	P	4.0
8	☐			4386.85	0.0037	P	9.5

$$y = 9.8668\text{E-}005 * x + 4.6469\text{E-}004$$

$$R = 1.0000$$

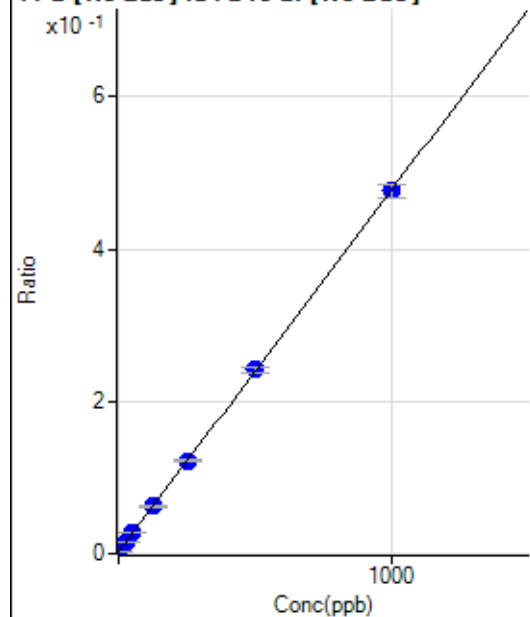
$$DL = 1.053$$

$$BEC = 4.71$$

Weight: <None>

Min Conc: 0

11 B [No Gas] ISTD:6 Li [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	3114.29	0.0023	P	6.8
2	☐	25.000	24.828	19426.84	0.0141	P	2.4
3	☐	50.000	51.352	36472.37	0.0267	P	1.5
4	☐	125.000	125.773	85228.06	0.0621	P	2.6
5	☐	250.000	251.480	163778.02	0.1218	P	3.1
6	☐	500.000	503.021	319304.94	0.2414	P	2.5
7	☐	1000.000	997.960	584332.11	0.4765	P	3.7
8	☐			21357.41	0.0179	P	12.2

$$y = 4.7517\text{E-}004 * x + 0.0023$$

R = 1.0000

DL = 1.013

BEC = 4.935

Weight: <None>

Min Conc: 0

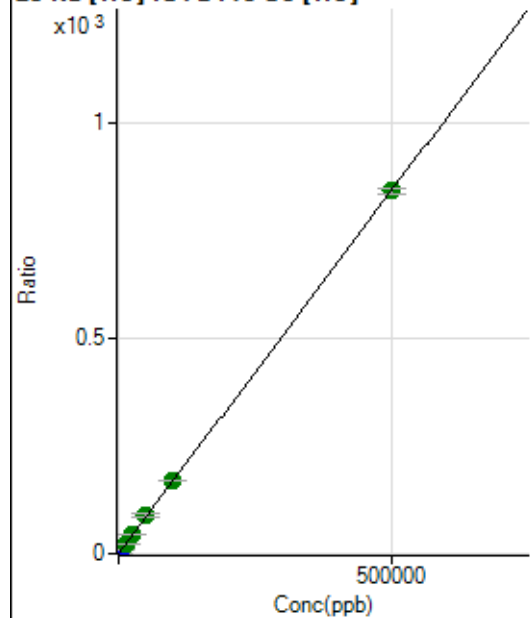
12 C [No Gas] No available calibration points



	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	13247.80	0.0458	P	1.7
2	☐	500.000	512.320	259524.57	0.9092	P	0.9
3	☐	5000.000	4988.874	2370020.78	8.4528	P	1.5
4	☐	12500.000	12675.941	5849726.35	21.4066	A	0.0
5	☐	25000.000	25530.478	11256374.12	43.0683	A	0.4
6	☐	50000.000	52677.901	20809607.76	88.8156	A	6.3
7	☐	100000.00	100392.63	39394109.21	169.2217	A	0.5
8	☐	500000.00	499622.86	201804265.6	841.9813	A	1.6

$$y = 0.0017 * x + 0.0458$$

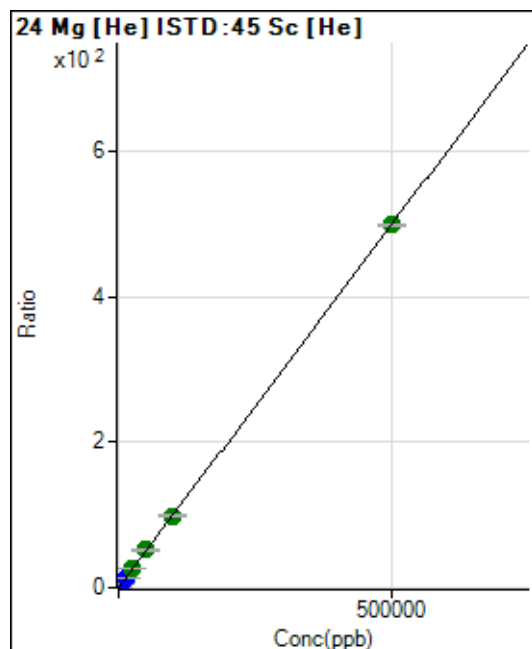
$$R = 1.0000$$

$$DL = 1.421$$

$$BEC = 27.19$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	272.23	0.0009	P	17.1
2	☐	500.000	499.499	142479.54	0.4991	P	0.5
3	☐	5000.000	4992.916	1396637.67	4.9809	P	0.8
4	☐	12500.000	12372.421	3372467.87	12.3414	P	0.8
5	☐	25000.000	25351.331	6608989.65	25.2867	A	0.6
6	☐	50000.000	52363.891	12237275.62	52.2294	A	6.3
7	☐	100000.00	99194.734	23032607.63	98.9390	A	0.7
8	☐	500000.00	499910.35	119517030.4	498.6179	A	0.4

$$y = 9.9741\text{E-}004 * x + 9.4122\text{E-}004$$

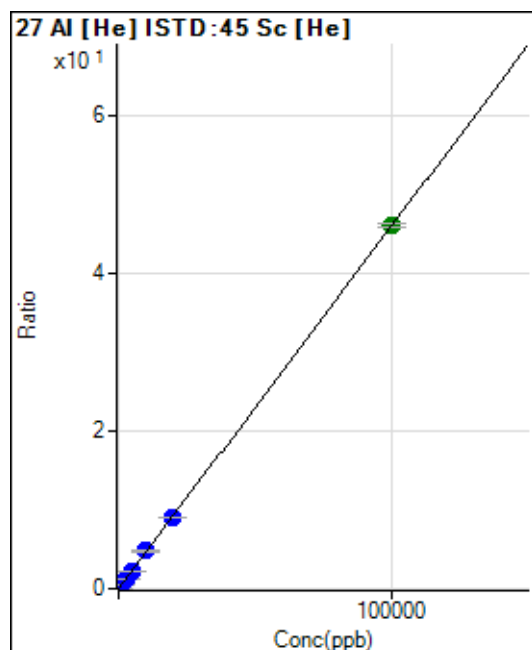
$$R = 1.0000$$

$$DL = 0.485$$

$$BEC = 0.9437$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	83.34	0.0003	P	20.1
2	☐	20.000	21.661	2922.59	0.0102	P	9.5
3	☐	1000.000	1013.088	130567.37	0.4656	P	1.7
4	☐	2500.000	2503.130	314278.16	1.1501	P	1.0
5	☐	5000.000	5000.170	600367.05	2.2971	P	1.0
6	☐	10000.000	10359.288	1115006.38	4.7588	P	6.3
7	☐	20000.000	19617.337	2097824.85	9.0114	P	0.4
8	☐	100000.00	100040.38	11014367.26	45.9534	A	0.9

$$y = 4.5935\text{E-}004 * x + 2.8823\text{E-}004$$

$$R = 1.0000$$

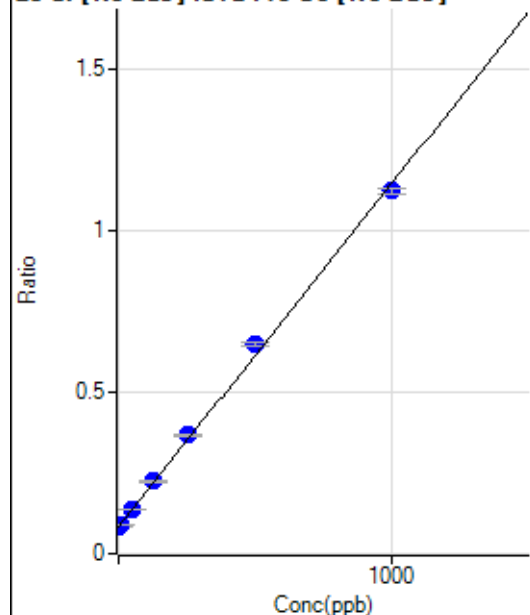
$$DL = 0.3777$$

$$BEC = 0.6275$$

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	288123.26	0.0833	P	2.2
2	☐	10.000	7.078	316797.51	0.0908	P	0.2
3	☐	50.000	51.145	474009.26	0.1377	P	1.3
4	☐	125.000	131.811	754693.53	0.2234	P	1.1
5	☐	250.000	266.829	1198267.22	0.3669	P	1.7
6	☐	500.000	531.834	2021848.48	0.6486	P	1.2
7	☐	1000.000	978.996	3207436.66	1.1239	P	1.5
8	☐			434786.43	0.1502	P	6.0

$$y = 0.0011 * x + 0.0833$$

R = 0.9990

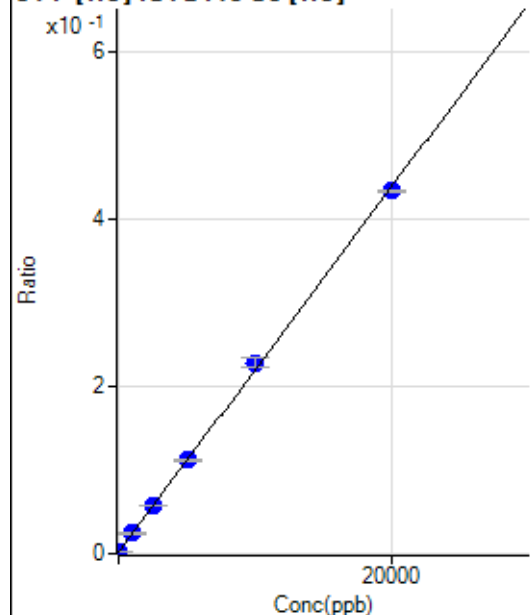
DL = 5.275

BEC = 78.36

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	11.227	575.03	0.0020	P	21.6
2	☐	0.000	-11.227	427.80	0.0015	P	8.0
3	☐	1000.000	1039.423	6846.18	0.0244	P	3.9
4	☐	2500.000	2551.308	15686.40	0.0574	P	2.7
5	☐	5000.000	5047.661	29234.70	0.1119	P	1.5
6	☐	10000.000	10390.106	53526.59	0.2284	P	5.9
7	☐	20000.000	19784.647	100880.74	0.4333	P	0.8
8	☐			427.80	0.0018	P	4.5

$$y = 2.1815E-005 * x + 0.0017$$

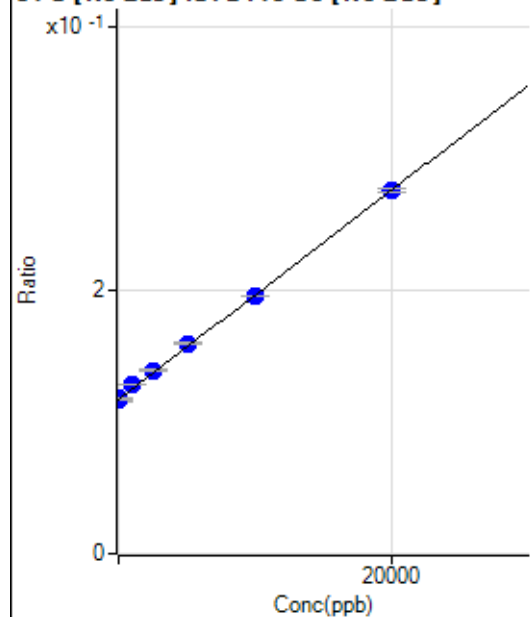
R = 0.9997

DL = 37.79

BEC = 79.95

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	-63.238	403593.30	0.1167	P	1.2
2	☐	0.000	63.238	410480.88	0.1177	P	0.3
3	☐	1000.000	1432.310	442667.21	0.1286	P	0.3
4	☐	2500.000	2802.412	471054.49	0.1394	P	0.9
5	☐	5000.000	5327.741	520941.43	0.1595	P	0.7
6	☐	10000.000	9871.588	609885.84	0.1956	P	0.5
7	☐	20000.000	19922.854	786383.20	0.2755	P	1.1
8	☐			342274.81	0.1182	P	1.5

$$y = 7.9486\text{E-}006 * x + 0.1172$$

$$R = 0.9996$$

$$DL = 336.8$$

$$BEC = 1.474\text{E}+04$$

Weight: <None>

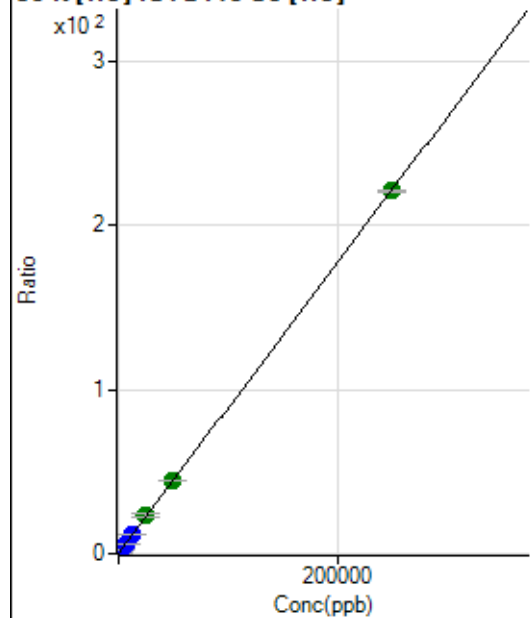
Min Conc: 0

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	48317.60	0.1671	P	0.9
2	☐	500.000	548.830	185998.54	0.6516	P	0.9
3	☐	2500.000	2690.319	712786.30	2.5421	P	0.7
4	☐	6250.000	6659.712	1652205.14	6.0461	P	0.3
5	☐	12500.000	13307.765	3114039.28	11.9149	P	0.6
6	☐	25000.000	26471.312	5513854.86	23.5353	A	6.6
7	☐	50000.000	50104.822	10335778.62	44.3984	A	0.4
8	☐	250000.00	249779.27	52893030.00	220.6661	A	0.3

$$y = 8.8278E-004 * x + 0.1671$$

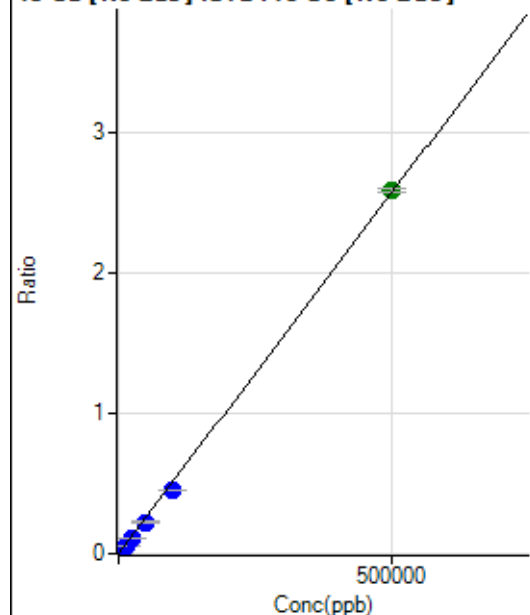
$$R = 1.0000$$

$$DL = 4.941$$

$$BEC = 189.3$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	166.12	0.0000	P	19.0
2	☐	500.000	515.488	9386.24	0.0027	P	1.1
3	☐	5000.000	4486.016	79359.16	0.0230	P	0.9
4	☐	12500.000	11051.416	191552.33	0.0567	P	0.5
5	☐	25000.000	22138.395	370799.11	0.1135	P	0.6
6	☐	50000.000	43967.767	702847.73	0.2254	P	1.6
7	☐	100000.00	88219.342	1290892.46	0.4523	P	0.5
8	☐	500000.00	503143.77	7467798.41	2.5794	A	0.9

$$y = 5.1265E-006 * x + 4.7973E-005$$

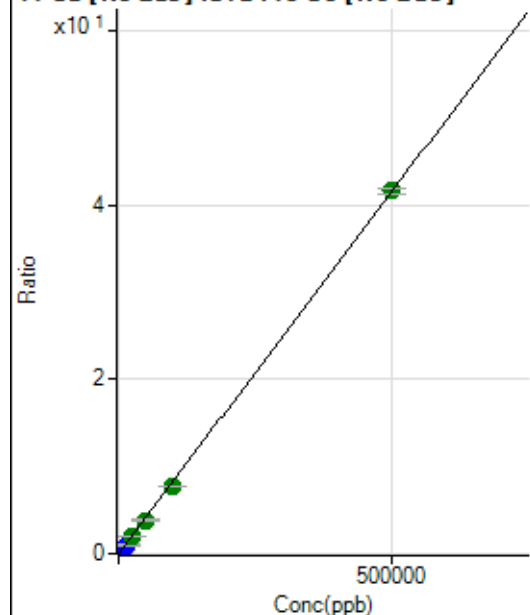
$$R = 0.9997$$

$$DL = 5.323$$

$$BEC = 9.358$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	8334.07	0.0024	P	1.2
2	☐	500.000	537.018	163759.32	0.0469	P	0.5
3	☐	5000.000	4831.028	1387855.03	0.4030	P	1.0
4	☐	12500.000	11925.047	3348946.71	0.9913	P	0.6
5	☐	25000.000	23259.834	6307424.87	1.9313	A	0.6
6	☐	50000.000	46400.278	12003334.12	3.8504	A	0.6
7	☐	100000.00	93804.144	22209145.17	7.7816	A	0.8
8	☐	500000.00	501702.17	120461387.4	41.6084	A	1.3

$$y = 8.2930E-005 * x + 0.0024$$

$$R = 0.9999$$

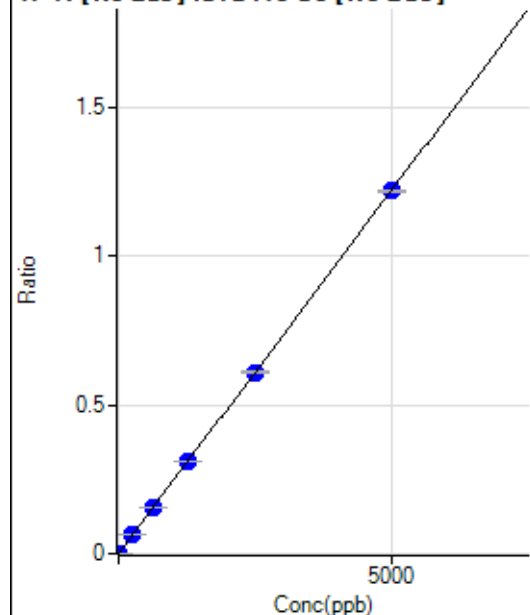
$$DL = 1.059$$

$$BEC = 29.05$$

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	102.78	0.0000	P	45.2
2	☐	5.000	4.989	4353.52	0.0012	P	4.3
3	☐	250.000	253.219	212979.28	0.0619	P	0.9
4	☐	625.000	634.118	523092.94	0.1548	P	0.3
5	☐	1250.000	1261.324	1005770.72	0.3080	P	0.4
6	☐	2500.000	2501.729	1904209.94	0.6108	P	0.5
7	☐	5000.000	4995.004	3480496.17	1.2195	P	0.7
8	☐			658.37	0.0002	P	7.6

$$y = 2.4414\text{E-}004 * x + 2.9774\text{E-}005$$

$$R = 1.0000$$

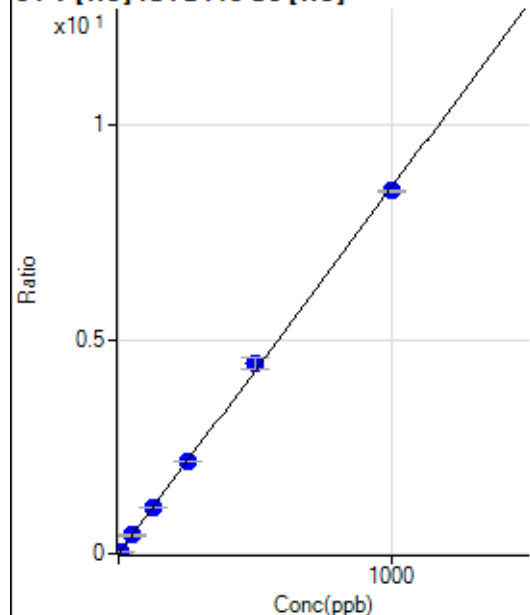
$$DL = 0.1654$$

$$BEC = 0.122$$

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	2.22	0.0000	P	86.6
2	☐	5.000	5.332	13013.60	0.0456	P	0.6
3	☐	50.000	50.117	120129.99	0.4284	P	1.1
4	☐	125.000	124.892	291745.38	1.0676	P	0.3
5	☐	250.000	251.479	561844.65	2.1497	P	0.2
6	☐	500.000	518.545	1038678.22	4.4327	P	6.1
7	☐	1000.000	990.364	1970830.51	8.4659	P	0.4
8	☐			446.68	0.0019	P	4.5

$$y = 0.0085 * x + 7.6704\text{E-}006$$

$$R = 0.9997$$

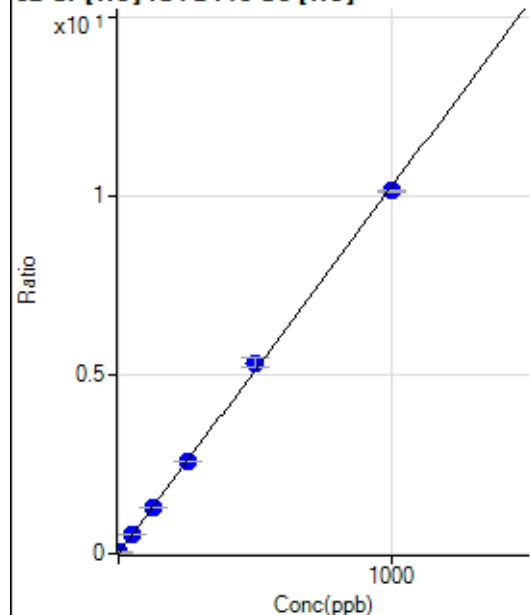
$$DL = 0.002331$$

$$BEC = 0.0008973$$

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	1564.54	0.0054	P	6.8
2	☐	2.000	2.103	7696.53	0.0270	P	1.6
3	☐	50.000	50.703	147242.40	0.5251	P	0.9
4	☐	125.000	126.220	355026.43	1.2992	P	0.3
5	☐	250.000	252.186	677002.70	2.5903	P	0.6
6	☐	500.000	520.714	1252086.58	5.3428	P	5.8
7	☐	1000.000	988.909	2360985.33	10.1418	P	0.4
8	☐			5861.21	0.0245	P	0.9

$$y = 0.0103 * x + 0.0054$$

$$R = 0.9997$$

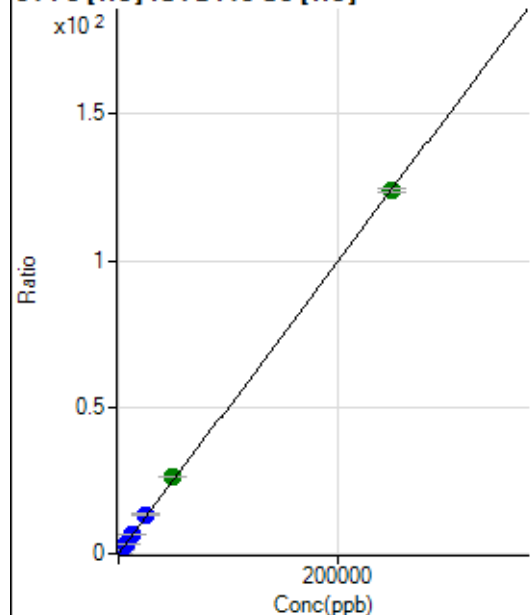
$$DL = 0.1071$$

$$BEC = 0.5279$$

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	1121.20	0.0039	P	2.5
2	☐	50.000	56.067	9052.12	0.0317	P	1.9
3	☐	2500.000	2641.127	368778.91	1.3152	P	0.2
4	☐	6250.000	6494.807	882240.64	3.2285	P	0.6
5	☐	12500.000	13113.912	1702710.07	6.5148	P	0.1
6	☐	25000.000	27068.433	3150438.40	13.4431	P	5.7
7	☐	50000.000	52252.445	6040343.88	25.9468	A	0.2
8	☐	250000.00	249304.44	29668968.13	123.7814	A	1.0

$$y = 4.9649E-004 * x + 0.0039$$

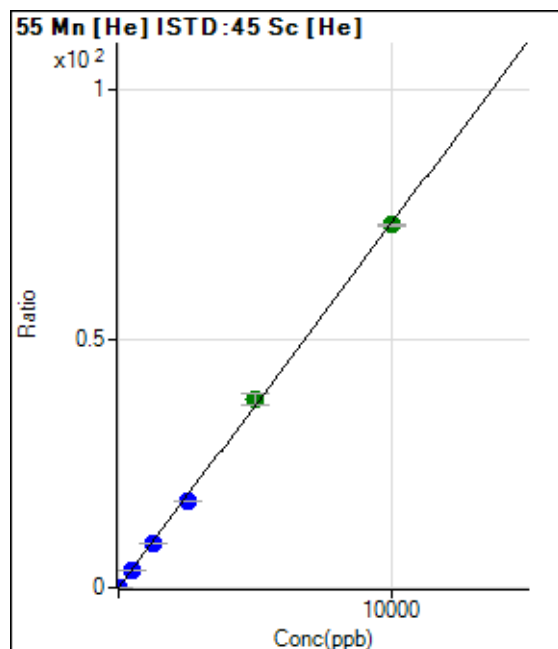
$$R = 0.9999$$

$$DL = 0.5922$$

$$BEC = 7.81$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	122.22	0.0004	P	24.8
2	☐	1.000	1.014	2240.19	0.0078	P	4.0
3	☐	500.000	479.946	985492.99	3.5146	P	0.7
4	☐	1250.000	1197.096	2395375.61	8.7656	P	0.7
5	☐	2500.000	2392.832	4579221.42	17.5209	P	0.5
6	☐	5000.000	5166.874	8868119.73	37.8326	A	5.2
7	☐	10000.000	9950.971	16962048.91	72.8621	A	0.3
8	☐			8449.15	0.0352	P	2.0

$$y = 0.0073 * x + 4.2275E-004$$

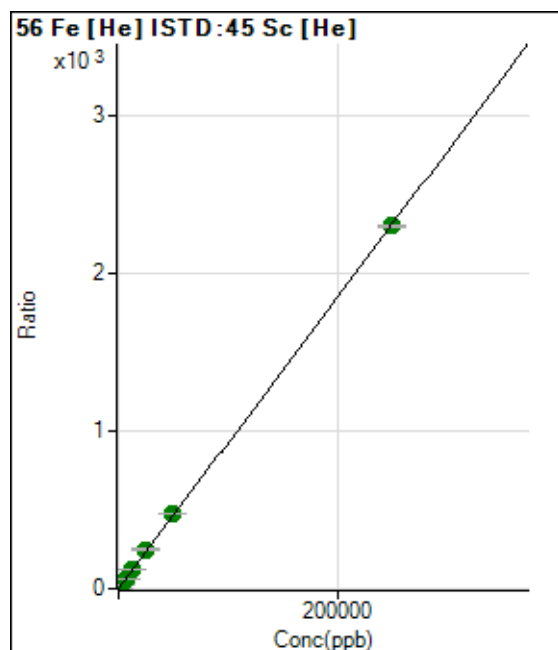
$$R = 0.9997$$

$$DL = 0.04302$$

$$BEC = 0.05774$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5421.45	0.0188	P	2.2
2	☐	50.000	53.177	145249.63	0.5089	P	1.6
3	☐	2500.000	2545.245	6583487.88	23.4799	A	1.3
4	☐	6250.000	6388.079	16095883.23	58.9018	A	0.8
5	☐	12500.000	12925.302	31143194.45	119.1595	A	0.4
6	☐	25000.000	26913.056	58155136.02	248.0936	A	5.2
7	☐	50000.000	51509.846	110536304.3	474.8179	A	0.1
8	☐	250000.00	249481.55	551205708.6	2,299.649	A	0.6

$$y = 0.0092 * x + 0.0188$$

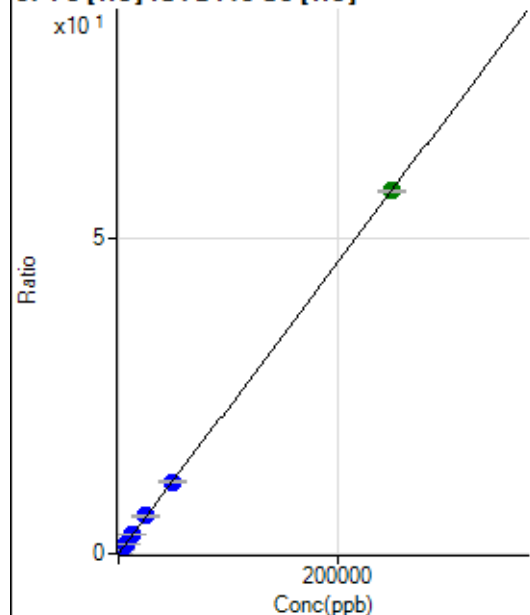
$$R = 1.0000$$

$$DL = 0.1361$$

$$BEC = 2.034$$

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	240.75	0.0008	P	24.0
2	☐	50.000	50.242	3544.92	0.0124	P	3.8
3	☐	2500.000	2506.126	162344.09	0.5790	P	0.3
4	☐	6250.000	6262.448	395015.57	1.4455	P	0.7
5	☐	12500.000	12625.127	761420.96	2.9133	P	0.1
6	☐	25000.000	26020.784	1406883.16	6.0036	P	5.9
7	☐	50000.000	49568.940	2662237.50	11.4359	P	0.5
8	☐	250000.00	249977.50	13822450.08	57.6682	A	0.7

$$y = 2.3069\text{E-}004 * x + 8.3233\text{E-}004$$

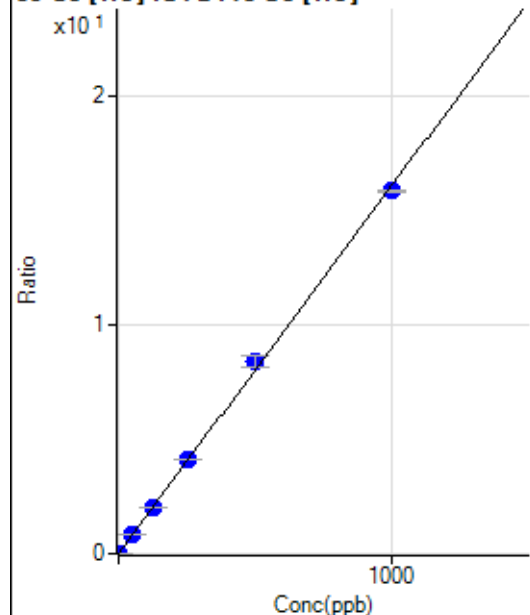
$$R = 1.0000$$

$$DL = 2.598$$

$$BEC = 3.608$$

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	82.22	0.0003	P	12.1
2	☐	1.000	1.078	5025.35	0.0176	P	2.2
3	☐	50.000	51.355	231534.16	0.8257	P	0.6
4	☐	125.000	127.353	559456.57	2.0473	P	0.3
5	☐	250.000	255.708	1074282.71	4.1104	P	0.2
6	☐	500.000	522.844	1969018.61	8.4042	P	6.4
7	☐	1000.000	986.789	3692468.42	15.8613	P	0.4
8	☐			5547.77	0.0231	P	1.2

$$y = 0.0161 * x + 2.8430\text{E-}004$$

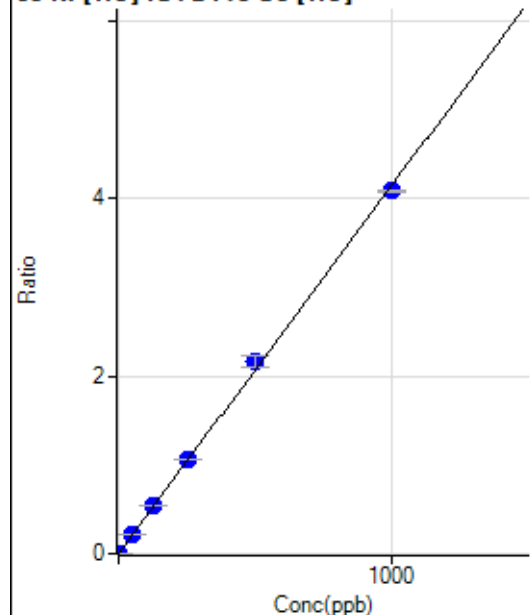
$$R = 0.9996$$

$$DL = 0.006432$$

$$BEC = 0.01769$$

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	134.45	0.0005	P	5.1
2	☐	1.000	1.121	1456.76	0.0051	P	6.5
3	☐	50.000	51.487	59875.83	0.2135	P	0.7
4	☐	125.000	128.843	145828.03	0.5336	P	0.7
5	☐	250.000	255.074	276000.61	1.0560	P	0.1
6	☐	500.000	523.466	507690.99	2.1667	P	6.1
7	☐	1000.000	986.444	950418.07	4.0826	P	0.7
8	☐			1676.78	0.0070	P	5.8

$$y = 0.0041 * x + 4.6498E-004$$

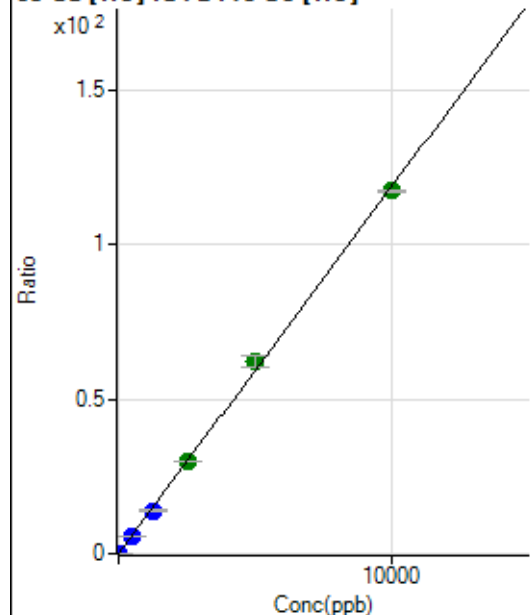
$$R = 0.9996$$

$$DL = 0.01729$$

$$BEC = 0.1124$$

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	813.37	0.0028	P	8.7
2	☐	2.000	1.983	7522.00	0.0264	P	2.1
3	☐	500.000	479.078	1595370.64	5.6896	P	0.4
4	☐	1250.000	1177.971	3821859.98	13.9857	P	0.6
5	☐	2500.000	2537.119	7871870.65	30.1192	A	0.4
6	☐	5000.000	5221.734	14524988.67	61.9865	A	6.1
7	☐	10000.000	9889.903	27330025.43	117.3991	A	0.5
8	☐			6221.38	0.0260	P	4.8

$$y = 0.0119 * x + 0.0028$$

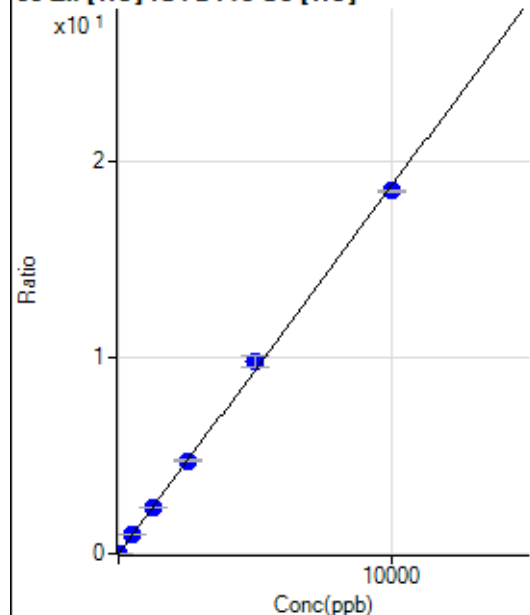
$$R = 0.9996$$

$$DL = 0.06162$$

$$BEC = 0.237$$

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	242.22	0.0008	P	6.2
2	☐	2.000	2.240	1440.08	0.0050	P	3.6
3	☐	500.000	505.937	266646.32	0.9510	P	0.5
4	☐	1250.000	1257.289	645441.62	2.3619	P	0.4
5	☐	2500.000	2535.407	1244623.11	4.7621	P	0.2
6	☐	5000.000	5240.851	2306406.94	9.8428	P	6.1
7	☐	10000.000	9869.515	4314896.63	18.5351	P	0.6
8	☐			6170.25	0.0257	P	1.6

$$y = 0.0019 * x + 8.3763E-004$$

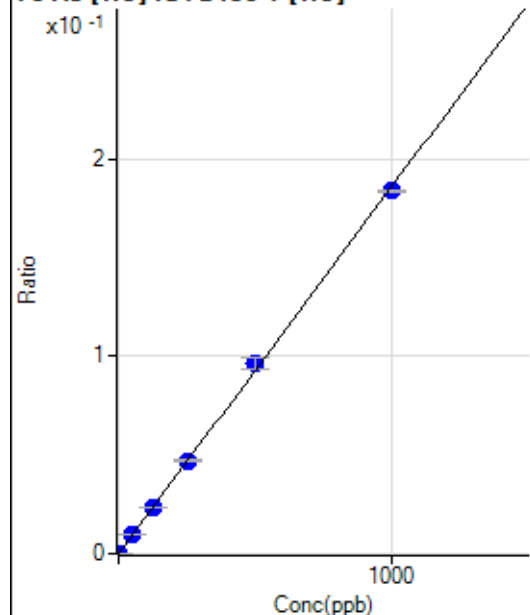
$$R = 0.9996$$

$$DL = 0.0834$$

$$BEC = 0.446$$

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	4.94	0.0000	P	21.6
2	☐	1.000	1.029	333.96	0.0002	P	2.7
3	☐	50.000	51.524	16458.08	0.0096	P	1.2
4	☐	125.000	126.688	39727.37	0.0235	P	0.4
5	☐	250.000	254.008	76995.67	0.0472	P	0.6
6	☐	500.000	518.747	143745.22	0.0964	P	6.1
7	☐	1000.000	989.337	273545.51	0.1838	P	0.6
8	☐			96.30	0.0001	P	9.6

$$y = 1.8582E-004 * x + 2.8353E-006$$

$$R = 0.9997$$

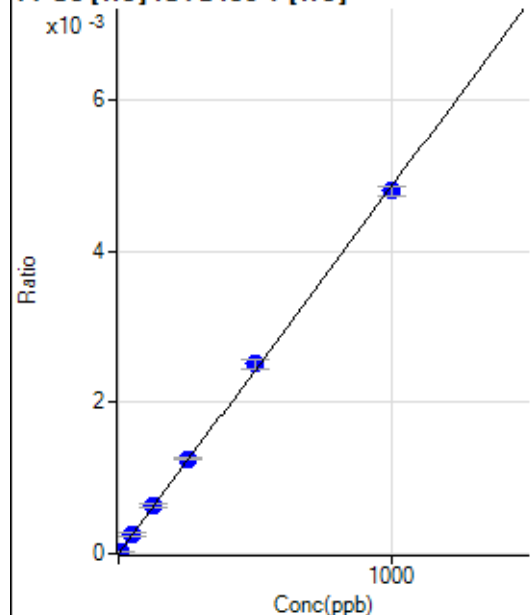
$$DL = 0.009905$$

$$BEC = 0.01526$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	5.187	43.33	0.0000	P	20.3
3	☐	50.000	52.623	438.90	0.0003	P	16.5
4	☐	125.000	130.126	1065.61	0.0006	P	7.4
5	☐	250.000	259.134	2051.28	0.0013	P	1.8
6	☐	500.000	517.873	3749.42	0.0025	P	5.0
7	☐	1000.000	988.007	7134.03	0.0048	P	2.8
8	☐			3.33	0.0000	P	100.

$$y = 4.8530\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9997$$

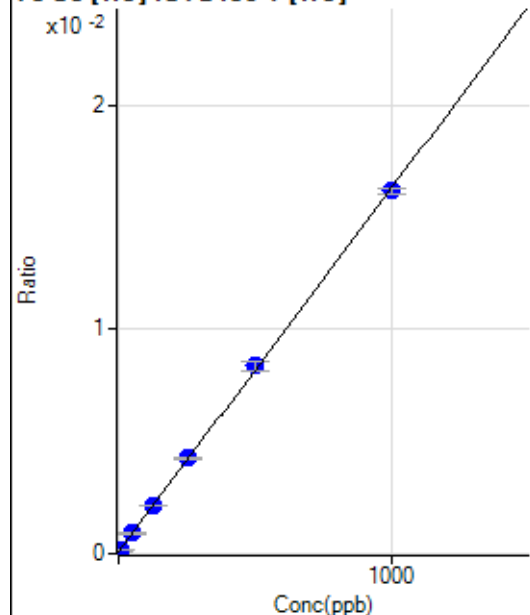
$$DL = 0$$

$$BEC = 0$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	154.32	0.0001	P	3.4
2	☐	5.000	4.973	291.36	0.0002	P	5.8
3	☐	50.000	50.428	1558.12	0.0009	P	1.5
4	☐	125.000	127.314	3634.42	0.0022	P	0.7
5	☐	250.000	256.506	6931.93	0.0042	P	1.3
6	☐	500.000	511.049	12500.47	0.0084	P	5.0
7	☐	1000.000	992.538	24089.07	0.0162	P	1.4
8	☐			116.05	0.0001	P	5.7

$$y = 1.6223\text{E-}005 * x + 8.8584\text{E-}005$$

$$R = 0.9999$$

$$DL = 0.556$$

$$BEC = 5.461$$

Weight: <None>

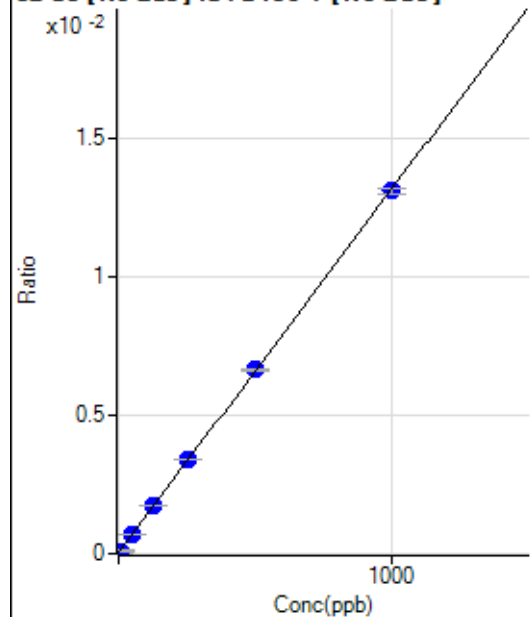
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5540.12		P	0.8
2	☐			5028.78		P	2.6
3	☐			5098.25		P	4.2
4	☐			4837.06		P	4.1
5	☐			4717.54		P	5.2
6	☐			4184.07		P	2.1
7	☐			3753.36		P	11.9
8	☐			4020.13		P	3.5

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			40.04		P	66.1
2	☐			53.39		P	60.3
3	☐			83.42		P	6.9
4	☐			70.07		P	28.6
5	☐			63.40		P	55.5
6	☐			60.06		P	60.1
7	☐			26.69		P	142.
8	☐			93.43		P	65.5

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	278.70	0.0000	P	21.6
2	☐	5.000	5.034	793.30	0.0001	P	8.2
3	☐	50.000	52.083	5550.77	0.0007	P	1.2
4	☐	125.000	128.127	13077.15	0.0017	P	1.4
5	☐	250.000	256.834	25253.92	0.0034	P	1.2
6	☐	500.000	504.211	48081.62	0.0066	P	0.9
7	☐	1000.000	995.691	88148.15	0.0131	P	1.6
8	☐			211.05	0.0000	P	42.8

$$y = 1.3095E-005 * x + 3.6167E-005$$

R = 1.0000

DL = 1.786

BEC = 2.762

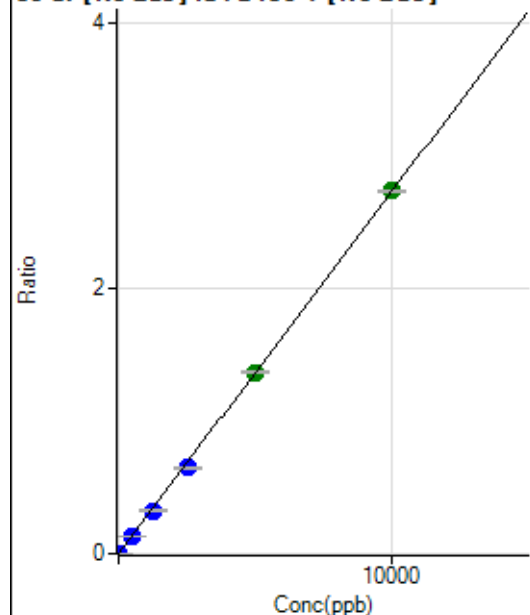
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐			1234.51		P	4.1
2	☐			1176.73		P	7.0
3	☐			1181.17		P	9.2
4	☐			1144.51		P	14.7
5	☐			1138.95		P	2.2
6	☐			1097.83		P	2.0
7	☐			991.16		P	9.1
8	☐			1001.16		P	6.3

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2169.67	0.0003	P	0.3
2	☐	1.000	0.890	4075.67	0.0005	P	4.4
3	☐	500.000	483.614	1022500.85	0.1323	P	0.2
4	☐	1250.000	1194.482	2489941.70	0.3263	P	0.4
5	☐	2500.000	2366.574	4801365.12	0.6463	P	0.6
6	☐	5000.000	5017.883	9922368.71	1.3700	A	1.2
7	☐	10000.000	10032.174	18466486.70	2.7387	A	0.7
8	☐			7032.47	0.0010	P	2.0

$$y = 2.7297\text{E-}004 * x + 2.8143\text{E-}004$$

$$R = 0.9999$$

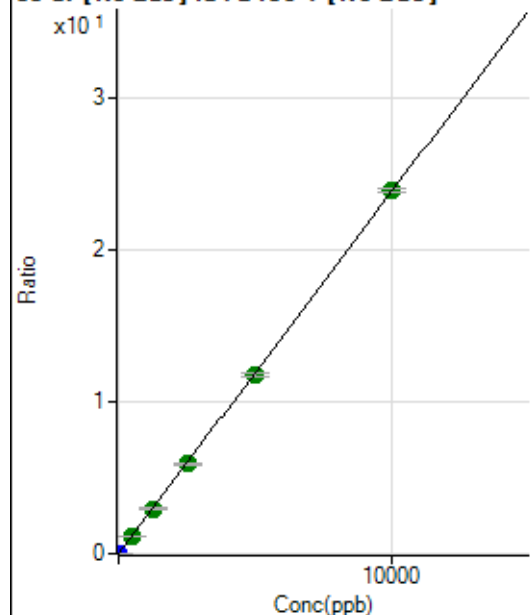
$$DL = 0.01026$$

$$BEC = 1.031$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	197.23	0.0000	P	13.2
2	☐	1.000	1.022	19099.20	0.0025	P	3.9
3	☐	500.000	496.393	9136123.90	1.1820	A	0.1
4	☐	1250.000	1244.601	22612813.87	2.9637	A	0.9
5	☐	2500.000	2473.827	43763650.28	5.8907	A	0.5
6	☐	5000.000	4952.433	85410797.05	11.7928	A	1.7
7	☐	10000.000	10031.182	161053274.4	23.8864	A	0.9
8	☐			48880.80	0.0072	P	1.6

$$y = 0.0024 * x + 2.5589\text{E-}005$$

$$R = 1.0000$$

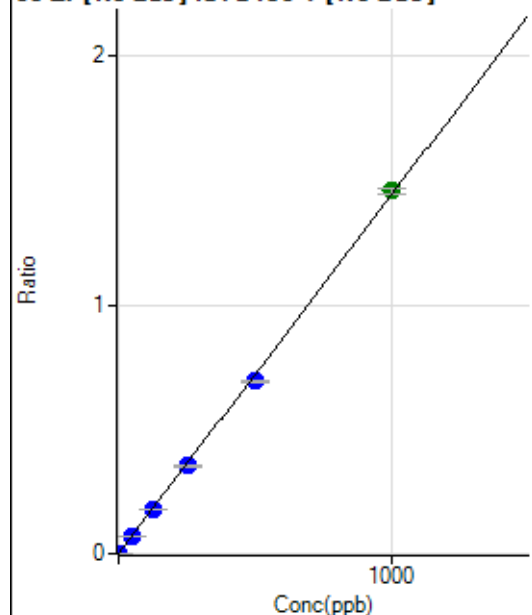
$$DL = 0.004258$$

$$BEC = 0.01075$$

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	594.48	0.0001	P	32.8
2	☐	1.000	1.009	11891.33	0.0015	P	1.7
3	☐	50.000	49.168	548108.99	0.0709	P	0.4
4	☐	125.000	122.587	1348151.75	0.1767	P	0.4
5	☐	250.000	243.919	2611380.35	0.3515	P	0.3
6	☐	500.000	481.336	5023078.80	0.6936	P	1.4
7	☐	1000.000	1011.196	9822963.50	1.4569	A	1.4
8	☐			2522.51	0.0004	P	7.3

$$y = 0.0014 * x + 7.7114E-005$$

$$R = 0.9997$$

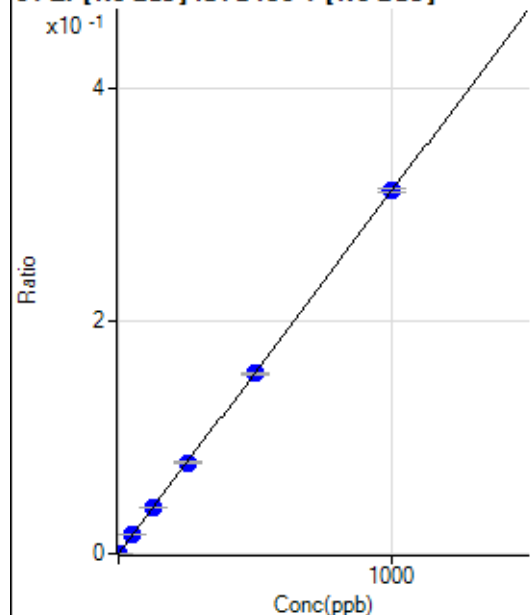
$$DL = 0.05275$$

$$BEC = 0.05352$$

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	136.12	0.0000	P	30.5
2	☐	1.000	0.947	2428.06	0.0003	P	6.5
3	☐	50.000	50.656	121959.75	0.0158	P	0.3
4	☐	125.000	126.612	300721.63	0.0394	P	0.3
5	☐	250.000	251.425	581321.42	0.0782	P	1.2
6	☐	500.000	497.792	1121923.40	0.1549	P	1.0
7	☐	1000.000	1000.513	2099109.03	0.3113	P	1.0
8	☐			563.92	0.0001	P	16.5

$$y = 3.1115E-004 * x + 1.7667E-005$$

$$R = 1.0000$$

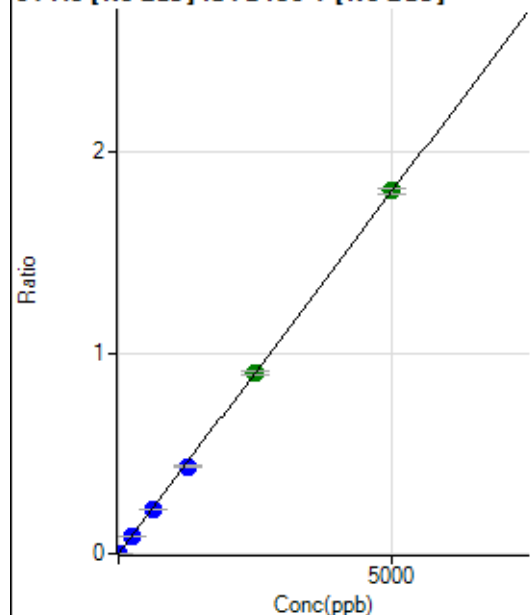
$$DL = 0.05204$$

$$BEC = 0.05678$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	236.12	0.0000	P	14.0
2	☐	5.000	5.004	14251.91	0.0018	P	2.3
3	☐	250.000	244.330	680974.01	0.0881	P	0.7
4	☐	625.000	603.939	1661321.05	0.2177	P	0.5
5	☐	1250.000	1206.519	3231351.44	0.4350	P	0.8
6	☐	2500.000	2497.920	6521611.78	0.9005	A	1.5
7	☐	5000.000	5014.826	12188691.16	1.8078	A	1.3
8	☐			3272.69	0.0005	P	9.4

$$y = 3.6048\text{E-}004 * x + 3.0619\text{E-}005$$

$$R = 1.0000$$

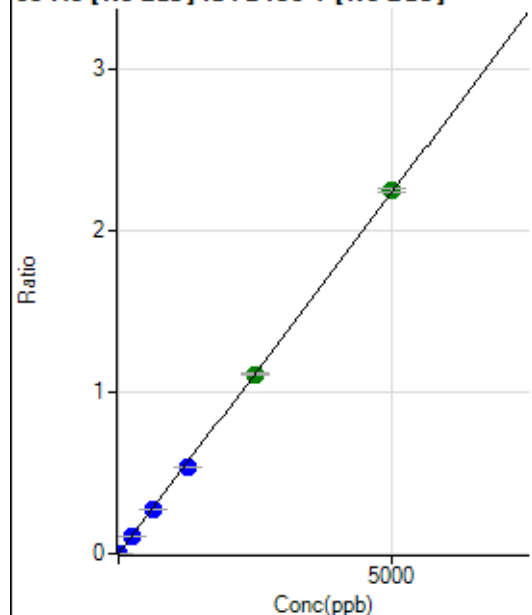
$$DL = 0.03557$$

$$BEC = 0.08494$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	38.89	0.0000	P	68.8
2	☐	5.000	5.050	17602.85	0.0023	P	3.0
3	☐	250.000	243.610	842889.00	0.1091	P	0.8
4	☐	625.000	605.367	2067657.51	0.2710	P	0.4
5	☐	1250.000	1200.085	3991095.18	0.5372	P	0.6
6	☐	2500.000	2478.992	8037181.95	1.1097	A	1.1
7	☐	5000.000	5025.756	15169072.39	2.2497	A	1.0
8	☐			3986.77	0.0006	P	10.2

$$y = 4.4764\text{E-}004 * x + 5.0371\text{E-}006$$

$$R = 0.9999$$

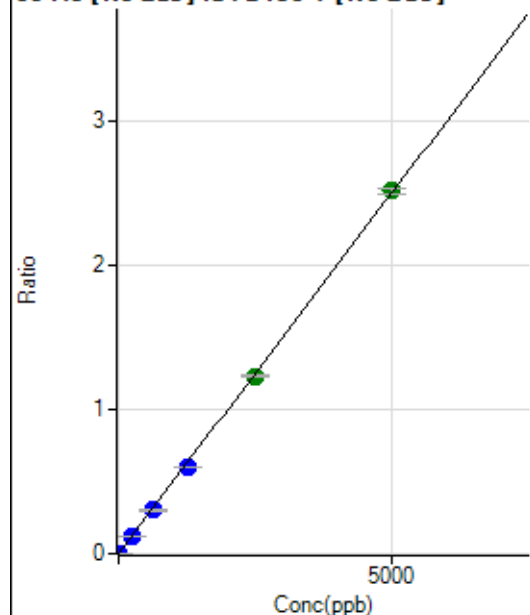
$$DL = 0.02323$$

$$BEC = 0.01125$$

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	94.45	0.0000	P	4.9
2	☐	5.000	5.023	19555.46	0.0025	P	2.1
3	☐	250.000	243.913	940212.58	0.1216	P	0.4
4	☐	625.000	600.897	2286445.28	0.2997	P	0.3
5	☐	1250.000	1197.966	4438355.14	0.5974	P	0.4
6	☐	2500.000	2464.344	8900571.29	1.2289	A	1.7
7	☐	5000.000	5034.154	16925644.82	2.5104	A	1.9
8	☐			5087.14	0.0008	P	5.6

$$y = 4.9868\text{E-}004 * x + 1.2250\text{E-}005$$

$$R = 0.9999$$

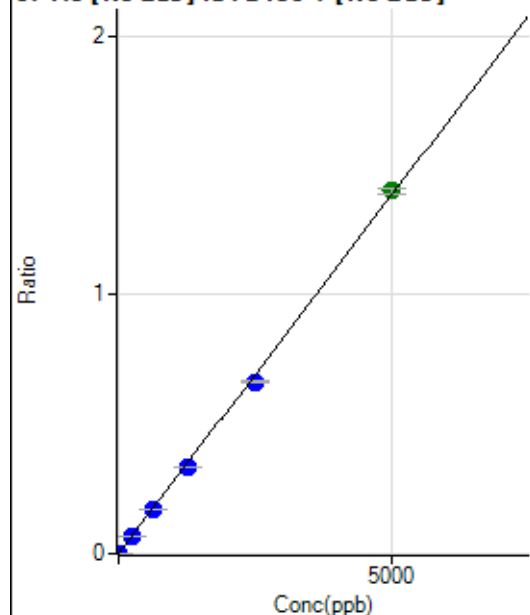
$$DL = 0.003586$$

$$BEC = 0.02457$$

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	25.00	0.0000	P	33.2
2	☐	5.000	4.935	10637.55	0.0014	P	2.0
3	☐	250.000	244.258	522502.27	0.0676	P	0.4
4	☐	625.000	606.672	1281074.01	0.1679	P	0.3
5	☐	1250.000	1214.550	2497240.44	0.3361	P	0.3
6	☐	2500.000	2400.760	4812251.63	0.6644	P	1.0
7	☐	5000.000	5061.061	9443891.01	1.4007	A	1.7
8	☐			2533.63	0.0004	P	7.1

$$y = 2.7675\text{E-}004 * x + 3.2423\text{E-}006$$

$$R = 0.9997$$

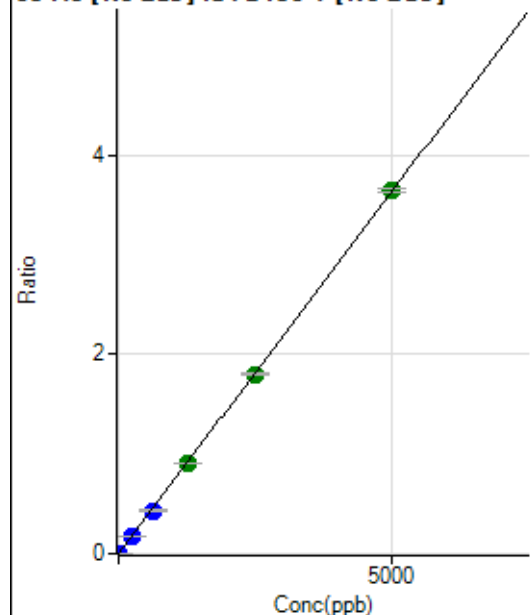
$$DL = 0.01167$$

$$BEC = 0.01172$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	88.89	0.0000	P	32.7
2	☐	5.000	5.075	28729.40	0.0037	P	1.1
3	☐	250.000	241.241	1354292.07	0.1752	P	0.7
4	☐	625.000	597.339	3310204.09	0.4338	P	0.7
5	☐	1250.000	1244.202	6713558.05	0.9036	A	0.6
6	☐	2500.000	2476.643	13028062.27	1.7987	A	1.0
7	☐	5000.000	5017.023	24567654.37	3.6437	A	1.2
8	☐			6223.72	0.0009	P	3.6

$$y = 7.2627E-004 * x + 1.1522E-005$$

$$R = 1.0000$$

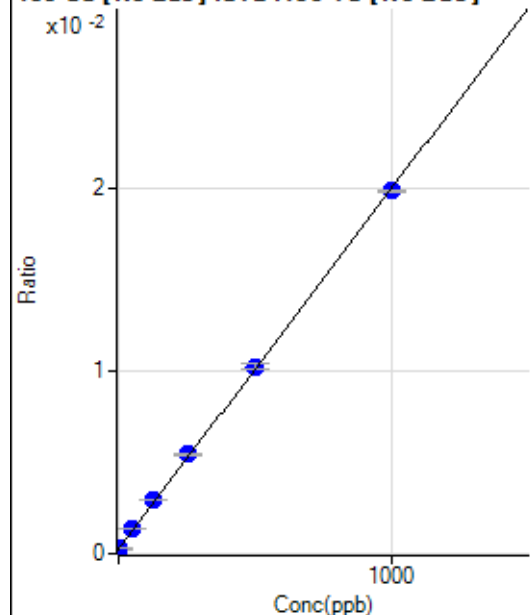
$$DL = 0.01554$$

$$BEC = 0.01586$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	2297.48	0.0003	P	3.1
2	☐	1.000	2.104	2697.56	0.0003	P	9.9
3	☐	50.000	54.367	12019.25	0.0013	P	1.7
4	☐	125.000	135.811	26079.99	0.0029	P	0.2
5	☐	250.000	261.573	48068.01	0.0054	P	1.5
6	☐	500.000	505.471	91077.65	0.0102	P	2.7
7	☐	1000.000	992.800	168152.16	0.0198	P	0.6
8	☐			2428.05	0.0003	P	7.3

$$y = 1.9727E-005 * x + 2.5929E-004$$

$$R = 0.9999$$

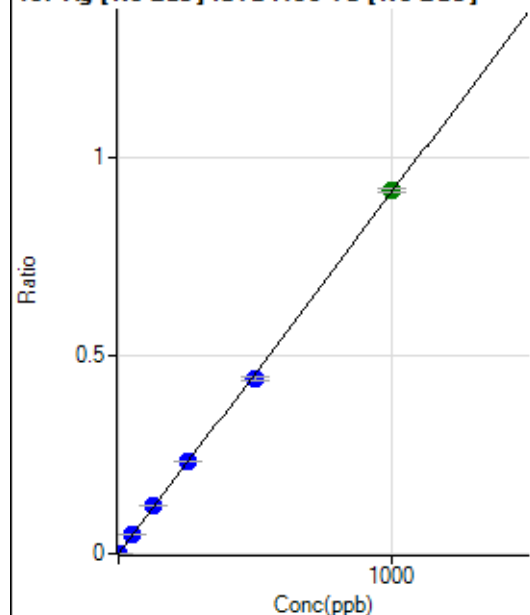
$$DL = 1.207$$

$$BEC = 13.14$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	41.67	0.0000	P	20.5
2	☐	1.000	1.089	8947.47	0.0010	P	0.9
3	☐	50.000	53.035	436017.23	0.0483	P	2.0
4	☐	125.000	131.974	1067155.60	0.1202	P	0.5
5	☐	250.000	255.540	2064770.29	0.2328	P	0.9
6	☐	500.000	485.401	3937105.60	0.4422	P	1.5
7	☐	1000.000	1004.891	7757784.55	0.9155	A	1.0
8	☐			2272.47	0.0003	P	3.4

$$y = 9.1106\text{E-}004 * x + 4.7058\text{E-}006$$

$$R = 0.9998$$

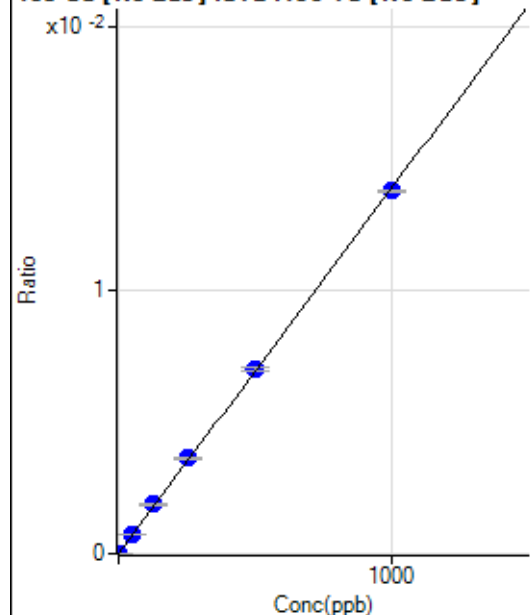
$$DL = 0.00317$$

$$BEC = 0.005165$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	11.11	0.0000	P	56.8
2	☐	1.000	1.027	138.89	0.0000	P	18.4
3	☐	50.000	53.637	6718.33	0.0007	P	3.7
4	☐	125.000	135.164	16636.24	0.0019	P	1.7
5	☐	250.000	262.767	32301.95	0.0036	P	2.2
6	☐	500.000	504.634	62265.94	0.0070	P	1.9
7	☐	1000.000	993.039	116614.43	0.0138	P	0.3
8	☐			183.34	0.0000	P	8.6

$$y = 1.3857\text{E-}005 * x + 1.2515\text{E-}006$$

$$R = 0.9999$$

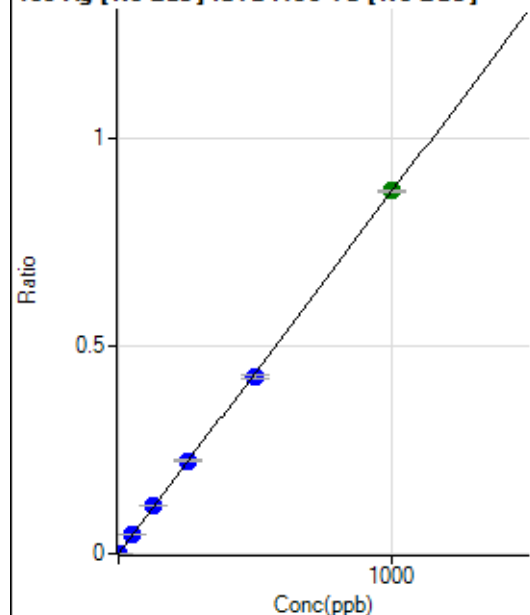
$$DL = 0.154$$

$$BEC = 0.09031$$

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	25.00	0.0000	P	33.7
2	☐	1.000	1.101	8647.33	0.0010	P	4.8
3	☐	50.000	53.374	420436.44	0.0466	P	2.1
4	☐	125.000	132.737	1028378.97	0.1159	P	1.1
5	☐	250.000	256.607	1986626.32	0.2240	P	1.3
6	☐	500.000	488.880	3799440.36	0.4268	P	1.5
7	☐	1000.000	1002.772	7417510.06	0.8754	A	0.4
8	☐			2305.81	0.0003	P	1.6

$$y = 8.7296E-004 * x + 2.8247E-006$$

$$R = 0.9999$$

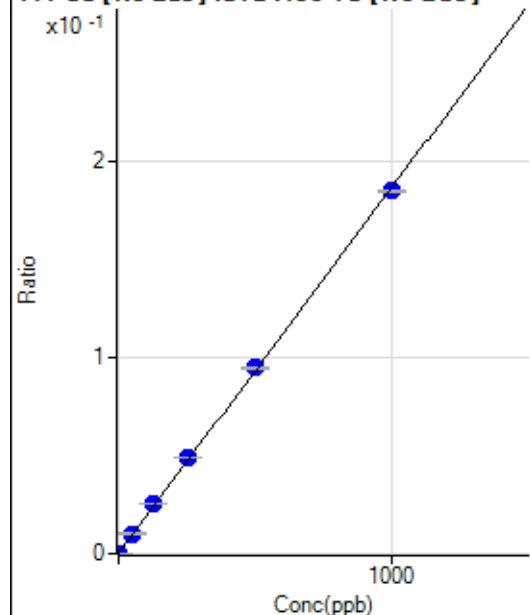
$$DL = 0.003272$$

$$BEC = 0.003236$$

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	1603.23	0.0002	P	3.1
2	☐	1.000	1.194	3623.16	0.0004	P	4.9
3	☐	50.000	53.871	92367.12	0.0102	P	1.8
4	☐	125.000	134.595	224583.11	0.0253	P	0.7
5	☐	250.000	262.497	436158.89	0.0492	P	0.9
6	☐	500.000	507.196	844496.38	0.0949	P	1.3
7	☐	1000.000	991.885	1570387.05	0.1853	P	0.4
8	☐			2039.37	0.0002	P	4.9

$$y = 1.8666E-004 * x + 1.8094E-004$$

$$R = 0.9999$$

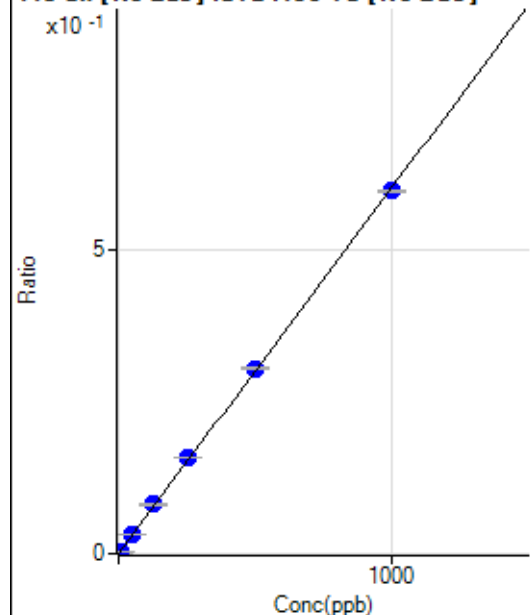
$$DL = 0.09041$$

$$BEC = 0.9693$$

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	927.83	0.0001	P	8.7
2	☐	5.000	5.477	30541.92	0.0034	P	1.0
3	☐	50.000	53.411	291232.54	0.0323	P	1.8
4	☐	125.000	134.108	717816.98	0.0809	P	1.2
5	☐	250.000	261.149	1396001.00	0.1574	P	0.4
6	☐	500.000	506.691	2718102.77	0.3053	P	1.1
7	☐	1000.000	992.556	5066814.91	0.5980	P	0.3
8	☐			2464.17	0.0003	P	3.5

$$y = 6.0234\text{E-}004 * x + 1.0470\text{E-}004$$

$$R = 0.9999$$

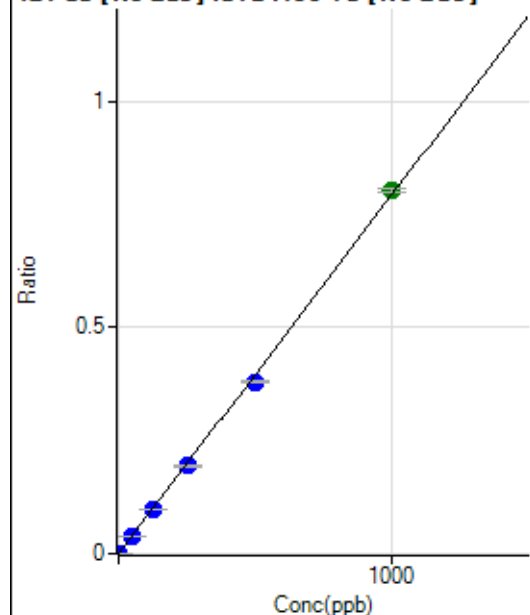
$$DL = 0.04549$$

$$BEC = 0.1738$$

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	52.78	0.0000	P	24.2
2	☐	2.000	2.099	14983.35	0.0017	P	1.7
3	☐	50.000	49.360	353105.78	0.0391	P	1.3
4	☐	125.000	125.095	880087.63	0.0992	P	0.6
5	☐	250.000	245.053	1722707.46	0.1942	P	1.2
6	☐	500.000	478.448	3376397.21	0.3793	P	1.4
7	☐	1000.000	1012.033	6797544.77	0.8022	A	1.1
8	☐			3544.99	0.0004	P	4.2

$$y = 7.9266\text{E-}004 * x + 5.9569\text{E-}006$$

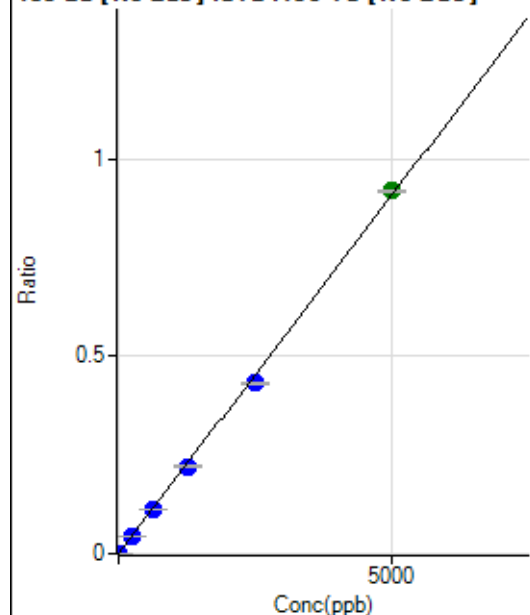
$$R = 0.9996$$

$$DL = 0.005458$$

$$BEC = 0.007515$$

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	52.78	0.0000	P	40.1
2	☐	10.000	10.349	16913.38	0.0019	P	3.0
3	☐	250.000	250.595	410616.46	0.0455	P	1.4
4	☐	625.000	626.941	1010264.35	0.1138	P	1.1
5	☐	1250.000	1218.178	1961597.37	0.2212	P	0.7
6	☐	2500.000	2382.049	3850514.28	0.4325	P	0.9
7	☐	5000.000	5066.658	7794963.54	0.9199	A	0.5
8	☐			2783.68	0.0003	P	1.0

$$y = 1.8156E-004 * x + 5.9596E-006$$

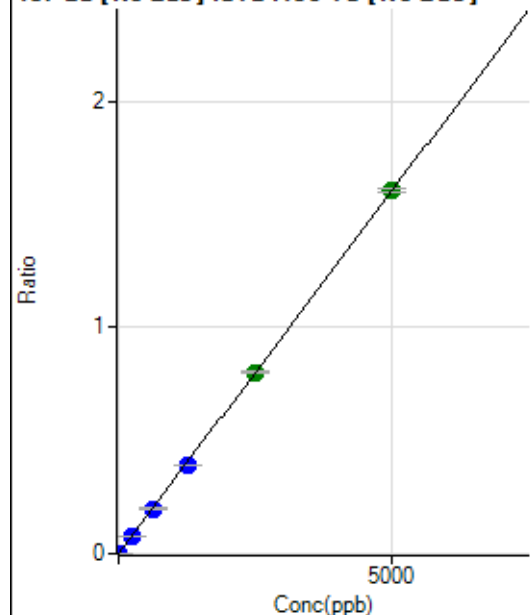
$$R = 0.9996$$

$$DL = 0.03947$$

$$BEC = 0.03282$$

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	61.11	0.0000	P	80.1
2	☐	10.000	10.517	30302.96	0.0034	P	2.6
3	☐	250.000	249.826	722429.78	0.0801	P	1.8
4	☐	625.000	622.729	1771074.37	0.1996	P	1.1
5	☐	1250.000	1213.291	3448218.61	0.3888	P	0.7
6	☐	2500.000	2502.613	7139944.52	0.8020	A	1.4
7	☐	5000.000	5008.162	13598753.95	1.6049	A	1.2
8	☐			5109.40	0.0006	P	3.0

$$y = 3.2045E-004 * x + 6.9094E-006$$

$$R = 1.0000$$

$$DL = 0.0518$$

$$BEC = 0.02156$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

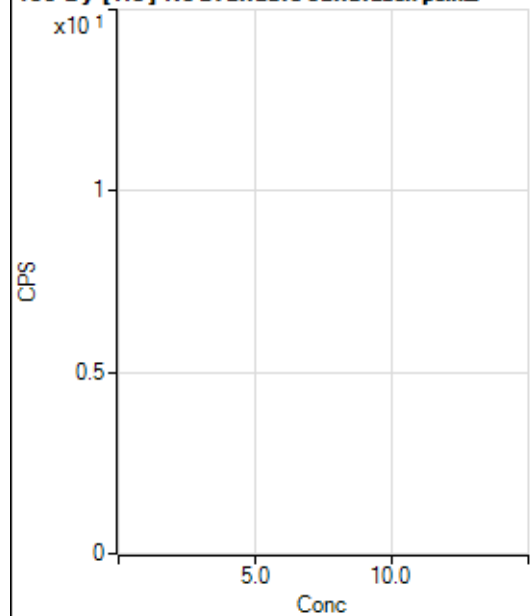
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.45		P	86.6
2	☐			0.00		P	
3	☐			13.33		P	50.0
4	☐			71.11		P	19.5
5	☐			120.00		P	5.6
6	☐			191.12		P	13.2
7	☐			395.57		P	7.0
8	☐			48.89		P	43.8

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.
2	☐			1.11		P	173.
3	☐			4.45		P	86.6
4	☐			11.11		P	45.8
5	☐			24.44		P	20.8
6	☐			24.44		P	7.9
7	☐			73.33		P	27.7
8	☐			24.44		P	20.8

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			11.11		P	114.
2	☐			2.78		P	173.
3	☐			52.78		P	9.1
4	☐			22.22		P	57.3
5	☐			130.56		P	19.5
6	☐			222.23		P	11.5
7	☐			511.13		P	11.6
8	☐			1814.06		P	4.9

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.
2	☐			2.22		P	86.6
3	☐			21.11		P	9.1
4	☐			48.89		P	48.4
5	☐			75.56		P	25.1
6	☐			142.22		P	9.5
7	☐			297.78		P	6.2
8	☐			1190.06		P	8.2

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

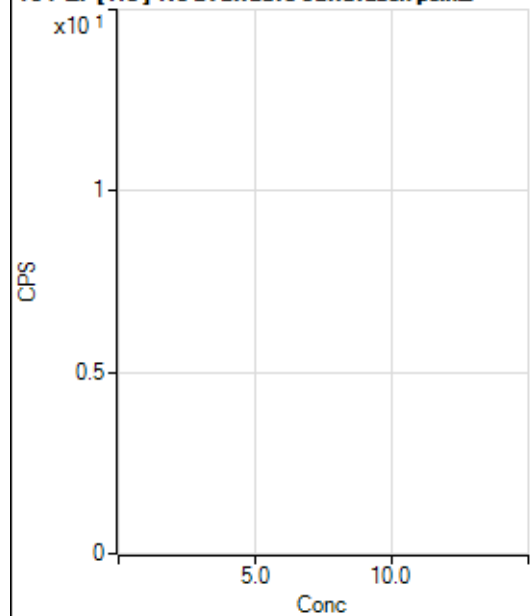
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			61.11		P	39.4
2	☐			55.56		P	37.8
3	☐			55.55		P	37.8
4	☐			91.67		P	50.6
5	☐			150.01		P	20.0
6	☐			266.67		P	8.3
7	☐			472.24		P	11.5
8	☐			2119.67		P	3.7

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			68.89		P	24.4
2	☐			42.22		P	24.1
3	☐			75.55		P	22.2
4	☐			96.67		P	21.0
5	☐			154.45		P	12.3
6	☐			211.11		P	13.1
7	☐			343.34		P	8.3
8	☐			1384.53		P	2.4

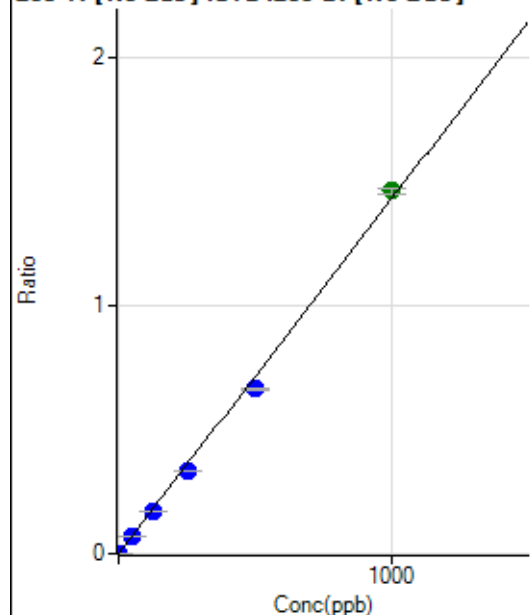
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			41.67		P	87.2
2	☐			41.67		P	40.0
3	☐			86.11		P	14.8
4	☐			72.22		P	24.0
5	☐			102.78		P	26.1
6	☐			86.11		P	29.6
7	☐			133.34		P	33.1
8	☐			322.23		P	17.2

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			31.11		P	27.0
2	☐			31.11		P	12.4
3	☐			32.22		P	51.0
4	☐			46.67		P	43.4
5	☐			48.89		P	37.5
6	☐			65.56		P	49.9
7	☐			68.89		P	29.2
8	☐			212.23		P	22.3

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	152.78	0.0000	P	22.1
2	☐	1.000	0.988	8194.39	0.0014	P	3.7
3	☐	50.000	47.566	388325.47	0.0679	P	0.5
4	☐	125.000	118.072	958009.33	0.1686	P	0.8
5	☐	250.000	234.199	1891756.96	0.3343	P	0.5
6	☐	500.000	464.235	3765922.83	0.6627	P	0.7
7	☐	1000.000	1022.821	7836369.10	1.4601	A	1.5
8	☐			4453.65	0.0009	P	9.2

$$y = 0.0014 * x + 2.7138E-005$$

$$R = 0.9989$$

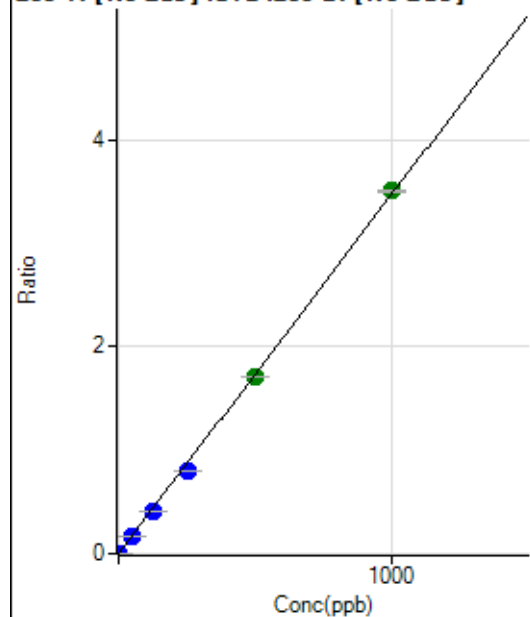
$$DL = 0.0126$$

$$BEC = 0.01901$$

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	358.35	0.0001	P	17.3
2	☐	1.000	0.994	20012.64	0.0035	P	1.8
3	☐	50.000	46.811	928035.58	0.1623	P	0.4
4	☐	125.000	115.921	2284037.40	0.4019	P	0.1
5	☐	250.000	228.674	4485551.18	0.7927	P	0.5
6	☐	500.000	492.534	9702658.81	1.7074	A	0.7
7	☐	1000.000	1010.359	18799084.45	3.5024	A	0.9
8	☐			10140.22	0.0020	P	5.4

$$y = 0.0035 * x + 6.3748E-005$$

$$R = 0.9997$$

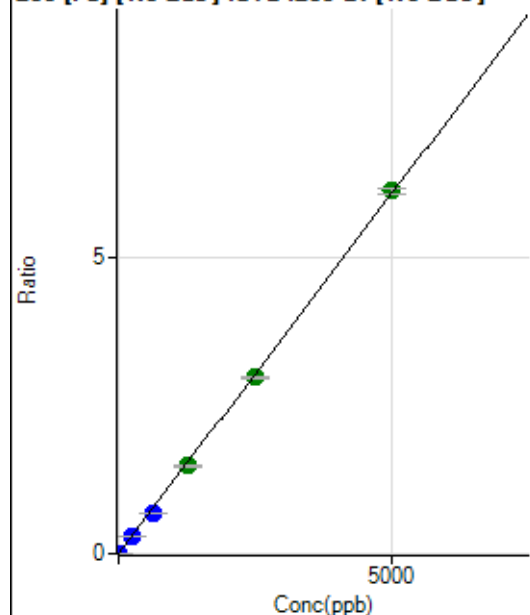
$$DL = 0.009548$$

$$BEC = 0.01839$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	381.50	0.0001	P	5.5
2	☐	1.000	0.946	6920.43	0.0012	P	0.2
3	☐	250.000	229.359	1588673.98	0.2779	P	0.1
4	☐	625.000	567.795	3909030.21	0.6878	P	0.7
5	☐	1250.000	1217.449	8344165.35	1.4748	A	1.3
6	☐	2500.000	2447.601	16848568.32	2.9649	A	0.5
7	☐	5000.000	5042.520	32782761.15	6.1081	A	1.6
8	☐			16831.21	0.0033	P	1.5

$$y = 0.0012 * x + 6.7813E-005$$

$$R = 0.9999$$

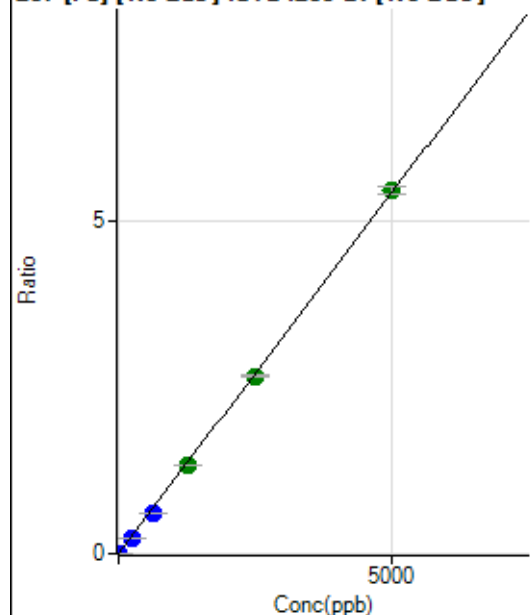
$$DL = 0.009199$$

$$BEC = 0.05598$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	314.83	0.0001	P	18.7
2	☐	1.000	0.962	6271.94	0.0011	P	1.1
3	☐	250.000	226.134	1403341.32	0.2455	P	0.2
4	☐	625.000	563.302	3474561.62	0.6114	P	1.0
5	☐	1250.000	1228.141	7541805.61	1.3329	A	1.0
6	☐	2500.000	2466.515	15211848.49	2.6769	A	0.5
7	☐	5000.000	5031.113	29304937.23	5.4602	A	2.3
8	☐			15685.34	0.0031	P	2.0

$$y = 0.0011 * x + 5.5952E-005$$

$$R = 0.9999$$

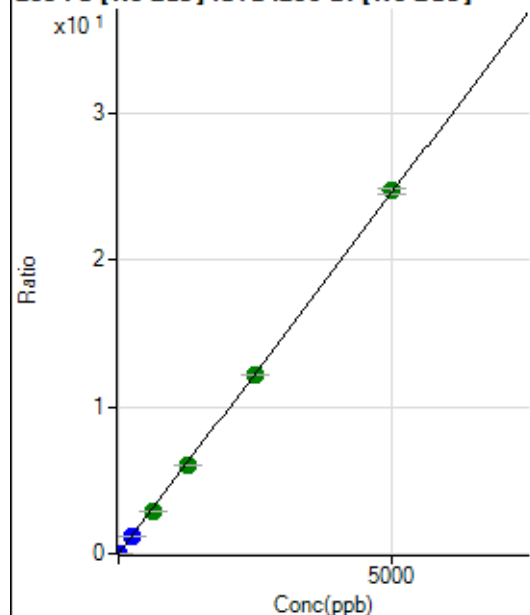
$$DL = 0.02886$$

$$BEC = 0.05156$$

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	1483.40	0.0003	P	9.9
2	☐	1.000	0.947	28023.07	0.0049	P	1.8
3	☐	250.000	226.734	6368265.96	1.1139	P	0.2
4	☐	625.000	592.504	16540631.39	2.9105	A	0.6
5	☐	1250.000	1226.017	34074030.74	6.0222	A	0.9
6	☐	2500.000	2469.205	68922503.74	12.1285	A	0.3
7	☐	5000.000	5026.619	132515920.3	24.6900	A	1.5
8	☐			69568.21	0.0137	P	1.7

$$y = 0.0049 * x + 2.6374E-004$$

$$R = 0.9999$$

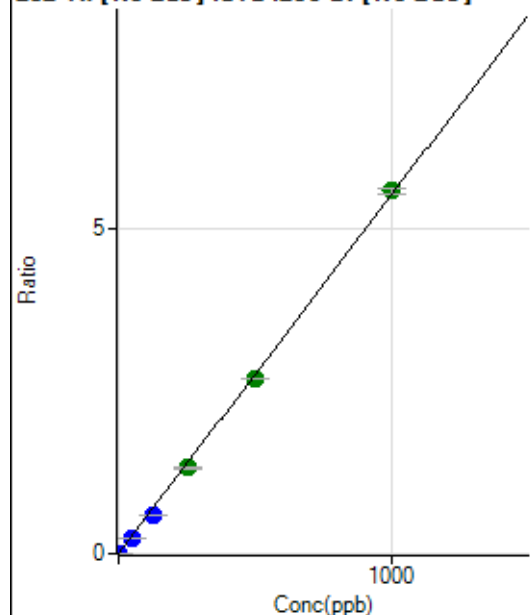
$$DL = 0.0159$$

$$BEC = 0.05369$$

Weight: <None>

Min Conc: 0

232 Th [No Gas] ISTD :209 Bi [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	144.45	0.0000	P	10.4
2	☐	1.000	-0.001	112.97	0.0000	P	10.5
3	☐	50.000	43.590	1376101.33	0.2407	P	0.2
4	☐	125.000	109.235	3427799.93	0.6032	P	0.4
5	☐	250.000	238.740	7458608.97	1.3182	A	0.9
6	☐	500.000	488.351	15322956.59	2.6964	A	0.6
7	☐	1000.000	1010.932	29958043.73	5.5818	A	1.5
8	☐			3911.77	0.0008	P	4.9

$$y = 0.0055 * x + 2.5685E-005$$

$$R = 0.9998$$

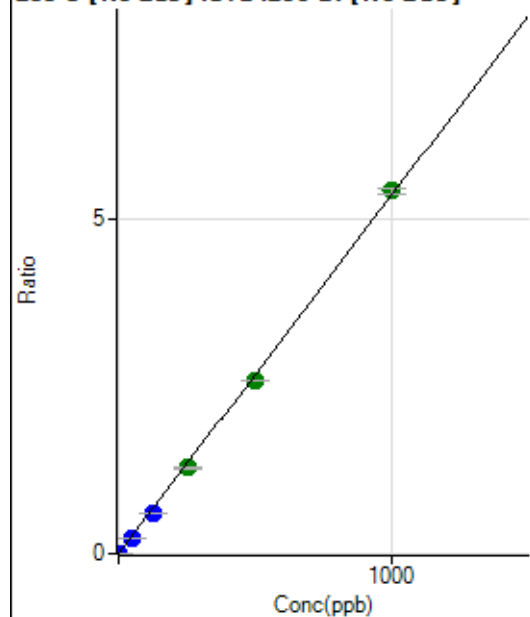
$$DL = 0.001452$$

$$BEC = 0.004652$$

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	16.67	0.0000	P	99.6
2	☐	1.000	0.907	27668.63	0.0049	P	0.8
3	☐	50.000	44.255	1353849.21	0.2368	P	0.4
4	☐	125.000	111.432	3388704.28	0.5963	P	0.9
5	☐	250.000	239.125	7240353.98	1.2796	A	0.9
6	☐	500.000	484.392	14729516.65	2.5920	A	0.4
7	☐	1000.000	1012.506	29078231.55	5.4180	A	1.7
8	☐			4334.17	0.0009	P	1.0

$$y = 0.0054 * x + 2.9555E-006$$

$$R = 0.9997$$

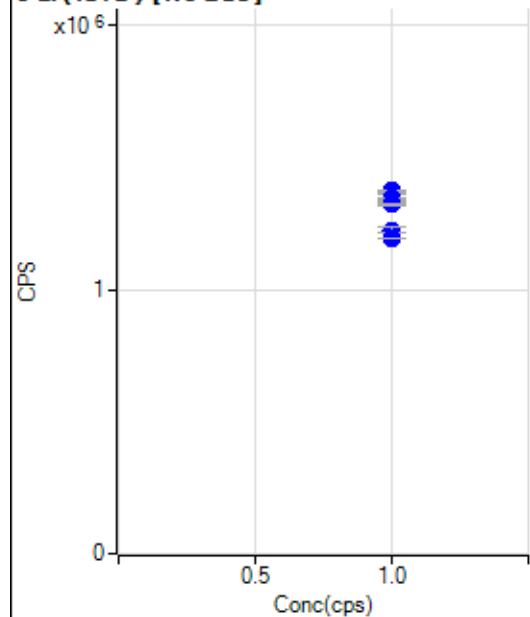
$$DL = 0.00165$$

$$BEC = 0.0005523$$

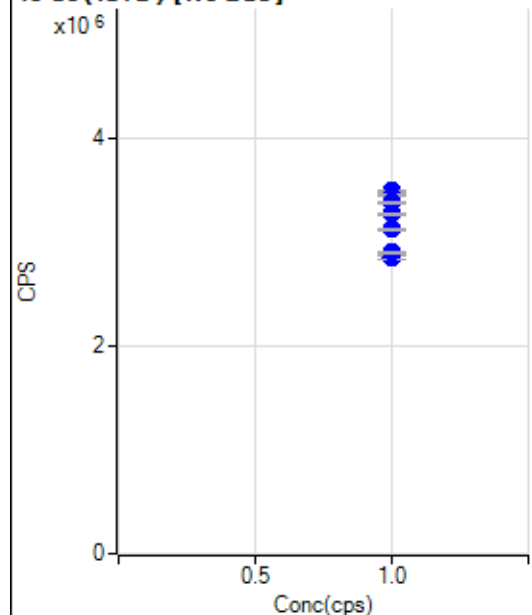
Weight: <None>

Min Conc: 0

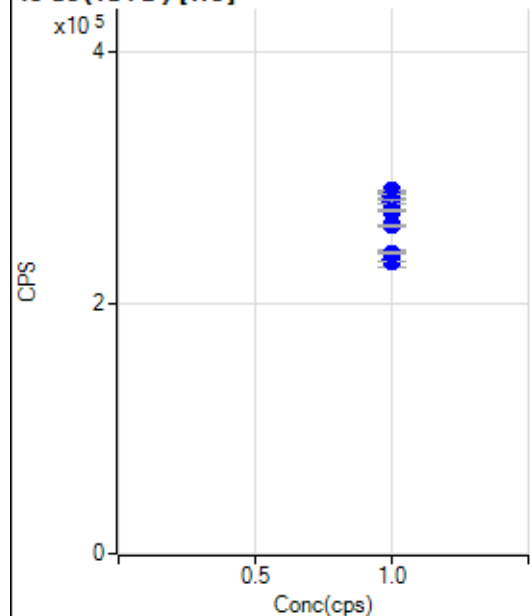
6 Li (ISTD) [No Gas]



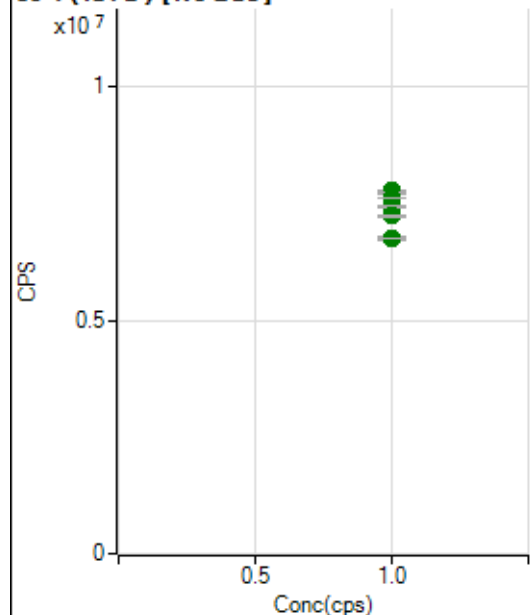
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1327573.03		P	0.7
2	☐	1.000		1373759.25		P	0.8
3	☐	1.000		1363574.84		P	0.5
4	☐	1.000		1372190.33		P	0.4
5	☐	1.000		1344132.18		P	0.3
6	☐	1.000		1322960.97		P	0.3
7	☐	1.000		1226571.36		P	1.3
8	☐	1.000		1193337.73		P	0.2

45 Sc (ISTD) [No Gas]

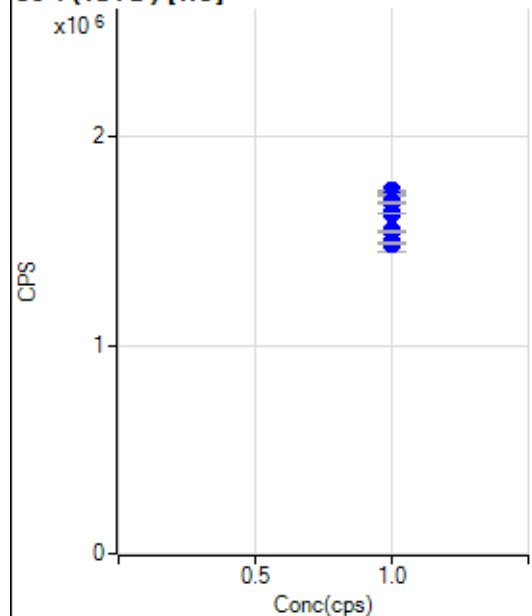
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3459686.58		P	0.9
2	☐	1.000		3488471.33		P	0.4
3	☐	1.000		3443550.99		P	0.5
4	☐	1.000		3378234.57		P	0.4
5	☐	1.000		3265810.47		P	0.3
6	☐	1.000		3117477.97		P	0.8
7	☐	1.000		2854176.31		P	1.2
8	☐	1.000		2895257.98		P	0.5

45 Sc (ISTD) [He]

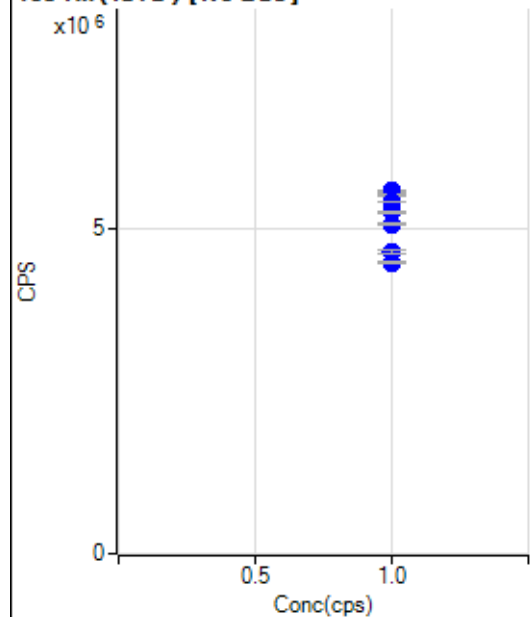
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		289144.89		P	0.3
2	☐	1.000		285440.28		P	1.1
3	☐	1.000		280405.71		P	0.8
4	☐	1.000		273267.62		P	0.2
5	☐	1.000		261358.71		P	0.4
6	☐	1.000		234905.54		P	6.1
7	☐	1.000		232797.22		P	0.2
8	☐	1.000		239702.77		P	1.2

89 Y (ISTD) [No Gas]

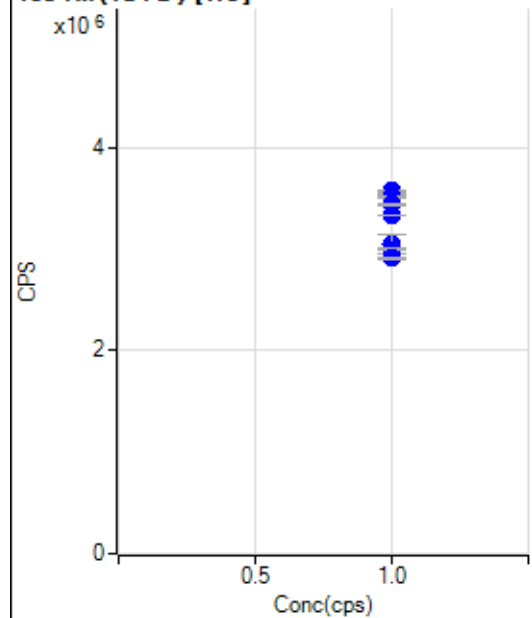
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7709341.90		A	0.3
2	☐	1.000		7770014.75		A	0.8
3	☐	1.000		7729126.28		A	0.2
4	☐	1.000		7629997.38		A	0.2
5	☐	1.000		7429337.46		A	0.3
6	☐	1.000		7242857.74		A	0.6
7	☐	1.000		6743050.87		A	1.4
8	☐	1.000		6757904.07		A	0.3

89 Y (ISTD) [He]

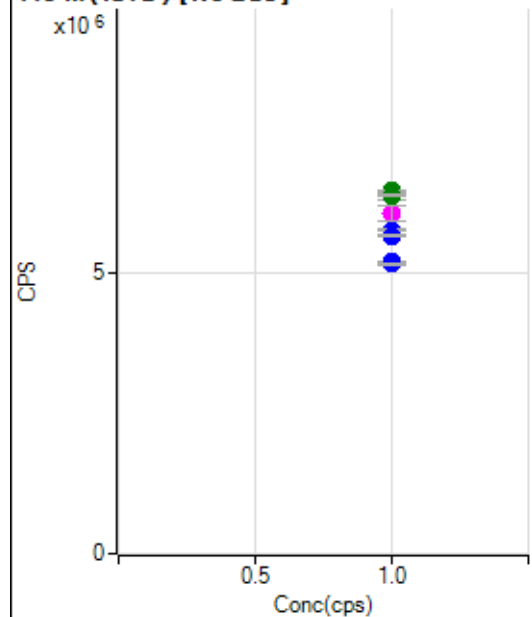
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1742020.15		P	0.6
2	☐	1.000		1721643.29		P	0.5
3	☐	1.000		1718552.23		P	0.7
4	☐	1.000		1687364.89		P	0.8
5	☐	1.000		1631130.06		P	0.2
6	☐	1.000		1494778.10		P	5.9
7	☐	1.000		1487923.90		P	0.4
8	☐	1.000		1547423.43		P	0.9

103 Rh (ISTD) [No Gas]

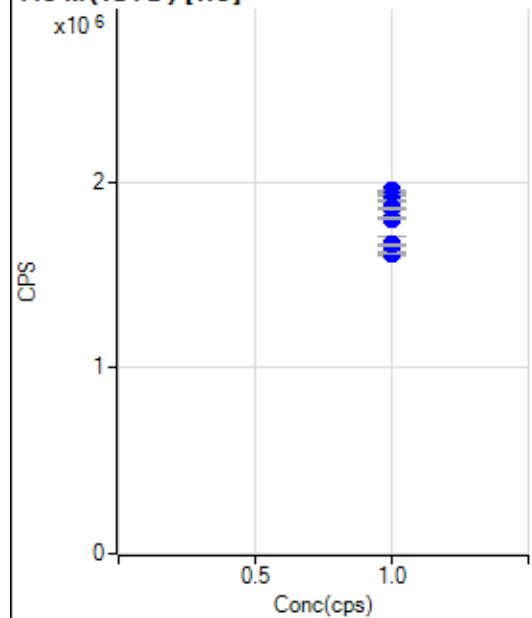
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5568079.15		P	0.9
2	☐	1.000		5575735.89		P	0.3
3	☐	1.000		5515922.97		P	0.3
4	☐	1.000		5411889.02		P	0.4
5	☐	1.000		5253183.36		P	0.4
6	☐	1.000		5061338.26		P	0.7
7	☐	1.000		4645600.04		P	1.1
8	☐	1.000		4472505.98		P	0.6

103 Rh (ISTD) [He]

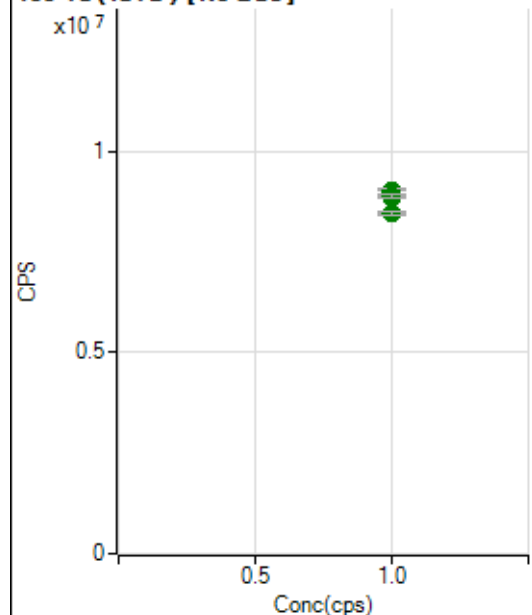
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3570710.23		P	0.4
2	☐	1.000		3517702.03		P	1.5
3	☐	1.000		3507368.32		P	0.4
4	☐	1.000		3443978.35		P	0.6
5	☐	1.000		3327407.73		P	0.3
6	☐	1.000		3044501.97		P	6.1
7	☐	1.000		2995662.87		P	0.9
8	☐	1.000		2906157.77		P	0.7

115 In (ISTD) [No Gas]

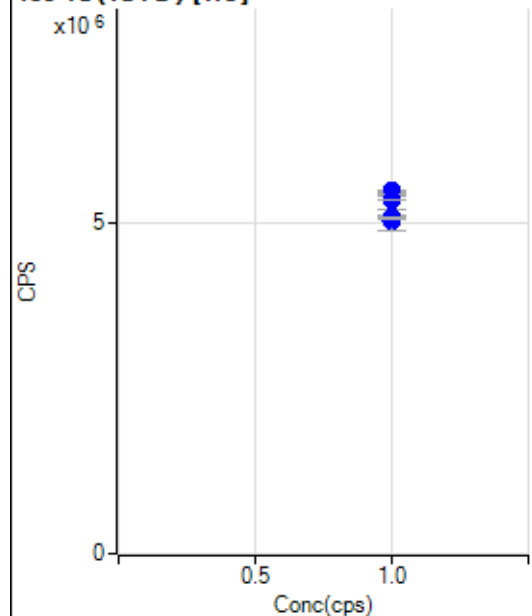
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6379954.92		A	1.8
2	☐	1.000		6469653.79		A	0.4
3	☐	1.000		6394218.99		A	0.3
4	☐	1.000		6079604.61		M	4.7
5	☐	1.000		5764700.13		P	0.5
6	☐	1.000		5665801.92		P	0.7
7	☐	1.000		5208988.93		P	0.6
8	☐	1.000		5166230.49		P	0.3

115 In (ISTD) [He]

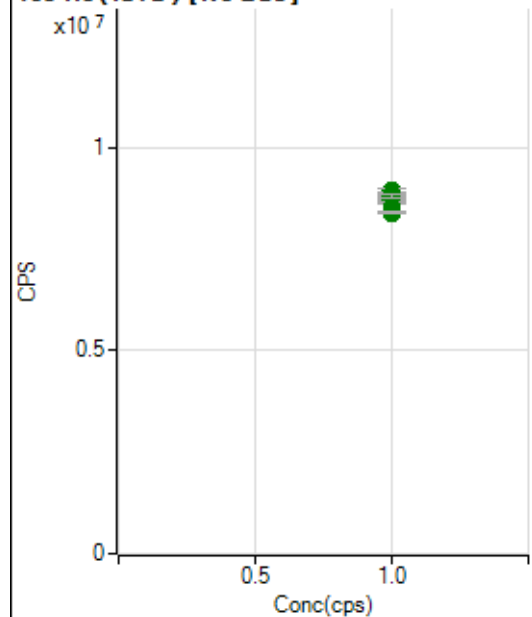
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1954821.47		P	0.6
2	☐	1.000		1930902.28		P	0.9
3	☐	1.000		1902406.57		P	0.4
4	☐	1.000		1864032.21		P	0.6
5	☐	1.000		1807737.09		P	0.1
6	☐	1.000		1653013.48		P	6.3
7	☐	1.000		1621101.26		P	0.4
8	☐	1.000		1664460.47		P	0.9

159 Tb (ISTD) [No Gas]

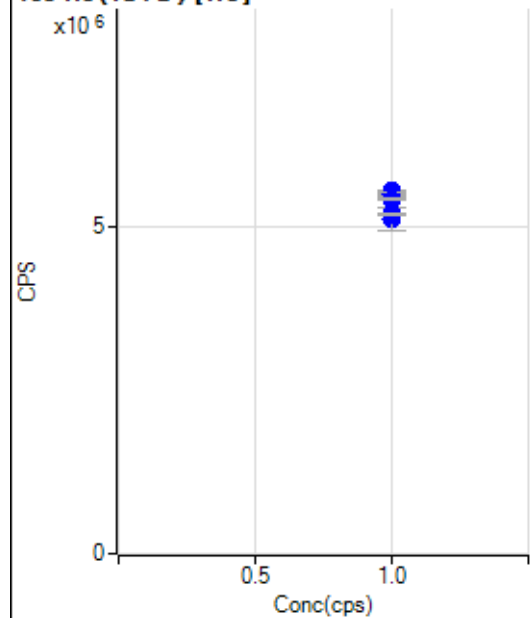
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8860677.51		A	0.7
2	☐	1.000		8974300.08		A	1.1
3	☐	1.000		9024761.32		A	1.5
4	☐	1.000		8875476.33		A	1.1
5	☐	1.000		8869022.23		A	0.8
6	☐	1.000		8903350.84		A	0.7
7	☐	1.000		8473491.19		A	0.2
8	☐	1.000		8475107.10		A	0.8

159 Tb (ISTD) [He]

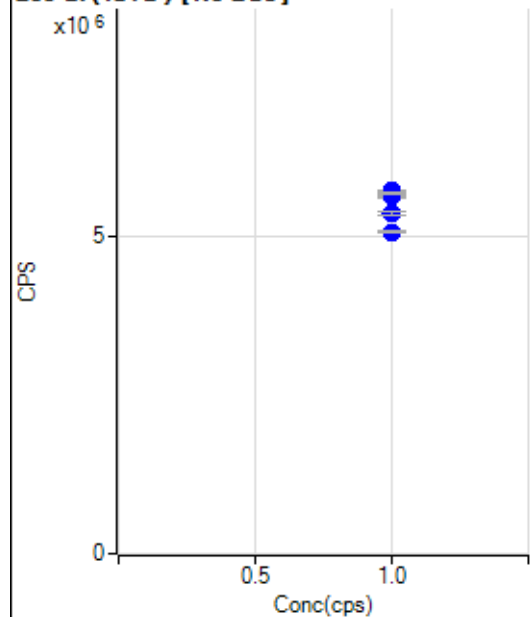
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5482137.70		P	0.3
2	☐	1.000		5437191.72		P	0.5
3	☐	1.000		5465858.60		P	0.2
4	☐	1.000		5418487.63		P	0.9
5	☐	1.000		5338875.27		P	0.1
6	☐	1.000		5035849.96		P	6.3
7	☐	1.000		5090782.01		P	0.9
8	☐	1.000		5067316.07		P	0.3

165 Ho (ISTD) [No Gas]

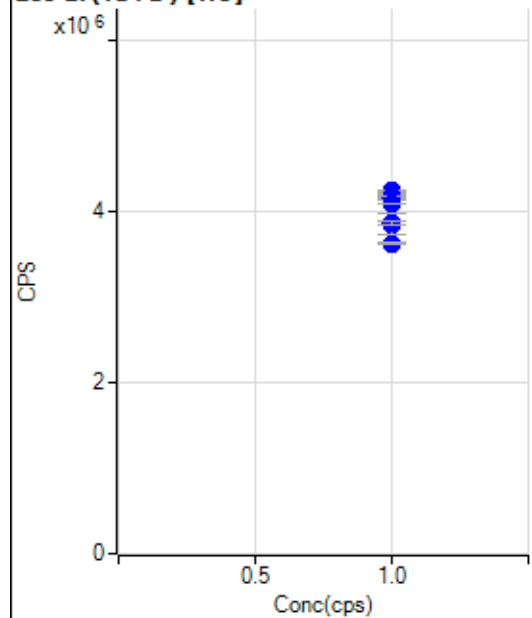
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8662692.51		A	1.1
2	☐	1.000		8799976.46		A	0.8
3	☐	1.000		8936278.27		A	1.0
4	☐	1.000		8835591.81		A	1.0
5	☐	1.000		8709315.70		A	0.8
6	☐	1.000		8806810.15		A	0.7
7	☐	1.000		8443320.22		A	0.2
8	☐	1.000		8403526.54		A	0.2

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5539847.21		P	0.3
2	☐	1.000		5472043.01		P	0.2
3	☐	1.000		5504296.93		P	0.3
4	☐	1.000		5493434.95		P	0.8
5	☐	1.000		5416582.42		P	0.6
6	☐	1.000		5111108.12		P	6.4
7	☐	1.000		5185389.09		P	0.6
8	☐	1.000		5170934.99		P	0.5

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5624846.72		P	0.6
2	☐	1.000		5700559.01		P	0.4
3	☐	1.000		5716900.12		P	0.1
4	☐	1.000		5683114.15		P	0.3
5	☐	1.000		5658353.18		P	0.8
6	☐	1.000		5682700.05		P	0.4
7	☐	1.000		5367802.63		P	1.4
8	☐	1.000		5072738.64		P	1.0

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4238629.04		P	0.3
2	☐	1.000		4183246.15		P	0.4
3	☐	1.000		4185553.27		P	0.9
4	☐	1.000		4162903.48		P	1.1
5	☐	1.000		4089314.00		P	0.2
6	☐	1.000		3852146.30		P	6.7
7	☐	1.000		3858855.01		P	0.9
8	☐	1.000		3626130.71		P	0.5

US EPA Tune Check Sample Report

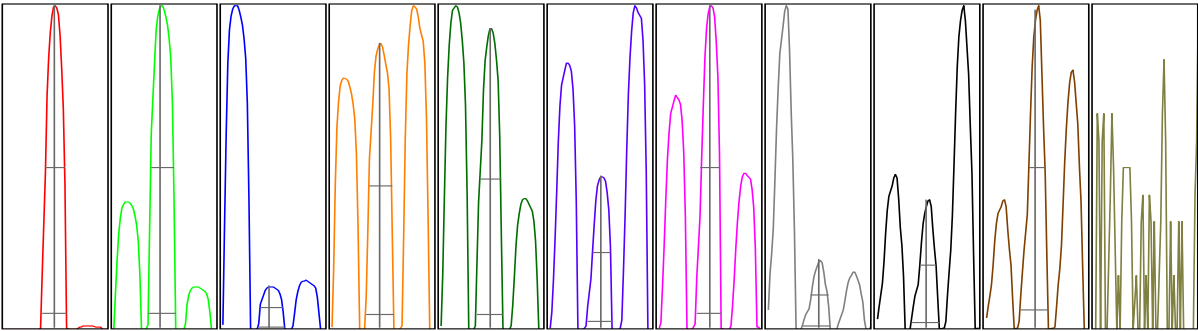
Batch Folder C:\Agilent\ICPMH\1\DATA\P7062321MS.b
Report Comment
Instrument Name G8403A JP14410463

[No Gas]

Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)	RSD% (Flag)
9	4800	0.38	5.00	
24	63286	0.56	5.00	
25	8270	0.43	5.00	
26	9431	0.48	5.00	
59	14231	0.57	5.00	
113	8447	0.44	5.00	
115	24797	0.52	5.00	
206	12676	0.41	5.00	
207	10709	0.51	5.00	
208	26573	0.68	5.00	
220	0	60.01		

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
9	4812	4820	4787	4776	4805
24	63592	63472	63518	62760	63089
25	8294	8280	8308	8243	8223
26	9466	9488	9427	9390	9385
59	14277	14204	14346	14191	14140
113	8469	8482	8423	8467	8393
115	24946	24903	24786	24721	24630
206	12592	12709	12673	12725	12682
207	10611	10727	10739	10728	10738
208	26256	26638	26714	26628	26632
220	0	0	0	0	0

Integration Time [sec] = 0.1



Mass	Peak Height	Axis (Actual)	Axis (Required)	Axis (Flag)	Width-X% (Actual)	Width-X% (Required)	Width- X% (Flag)
9	8677	9.00	8.9 - 9.1		0.731	0.900	
24	100958	23.90	23.9 - 24.1		0.787	0.900	
25	13369	24.90	24.9 - 25.1		0.778	0.900	
26	15245	25.95	25.9 - 26.1		0.820	0.900	
59	24514	59.00	58.9 - 59.1		0.783	0.900	
113	15585	113.05	112.9 - 113.1		0.734	0.900	
115	45714	115.05	114.9 - 115.1		0.734	0.900	
206	25834	206.05	205.9 - 206.1		0.804	0.900	
207	21432	207.00	206.9 - 207.1		0.812	0.900	
208	53127	208.00	207.9 - 208.1		0.814	0.900	
220			-				

X% = 5 Integration Time [sec] = 0.1 Acquisition Time [sec] = 256.8 Y Axis = Linear

Tune Parameters

Plasma Paramters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
RF Power	1600	W	Carrier Gas	0.68	L/min	S/C Temp		2 °C
RF Matching	1.80	V	Option Gas	0.0	%	Gas Switch		Dilution Gas
Smpl Depth	9.0	mm	Nebulizer Pump	0.10	rpm	Makeup/Dilution Gas		0.42 L/min

Lenses Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Extract 1	0.0	V	Omega Lens	10.2	V	Deflect	13.8	V
Extract 2	-150.0	V	Cell Entrance	-30	V	Plate Bias	-35	V
Omega Bias	-80	V	Cell Exit	-50	V			

Cell Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Use Gas	No		OctP Bias	-8.0	V	Energy Discrimination		5.0 V
He Flow	0.0	mL/min	OctP RF	200	V			

[He]

Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)
59	5312	0.40	
89	34822	0.55	
205	43654	0.36	

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
59	5293	5284	5326	5331	5324
89	34698	34566	34982	35017	34847
205	43443	43535	43817	43712	43762

Integration Time [sec] = 0.1

Tune Parameters

Plasma Paramters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
RF Power	1600	W	Carrier Gas	0.68	L/min	S/C Temp		2 °C
RF Matching	1.80	V	Option Gas	0.0	%	Gas Switch		Dilution Gas
Smpl Depth	9.0	mm	Nebulizer Pump	0.10	rpm	Makeup/Dilution Gas		0.42 L/min

Lenses Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Extract 1	0.0	V	Omega Lens	10.5	V	Deflect	2.2	V
Extract 2	-160.0	V	Cell Entrance	-40	V	Plate Bias	-60	V
Omega Bias	-95	V	Cell Exit	-60	V			

Cell Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Use Gas	Yes		OctP Bias	-18.0	V	Energy Discrimination		5.0 V
He Flow	3.9	mL/min	OctP RF	200	V			