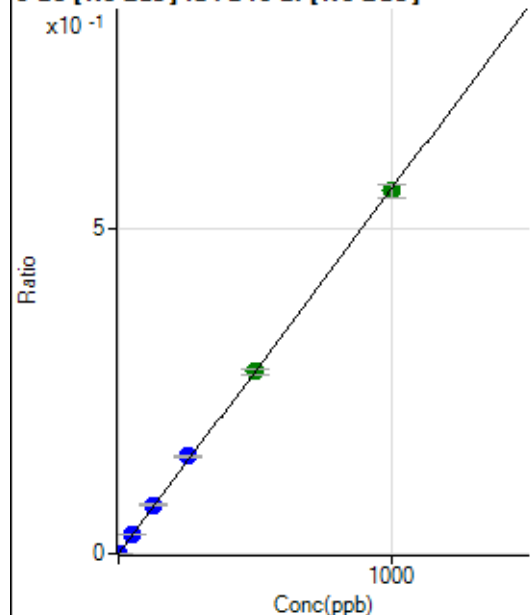


Batch Folder: D:\Agilent\ICPMH\1\DATA\P7120822-MS.b\
Analysis File: P7120822-MS.batch.bin
DA Date-Time: 2022-12-09 16:03:12
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2022-12-08 13:28:00
2	005CALS.d	S02	2022-12-08 13:30:53
3	006CALS.d	S03	2022-12-08 13:33:46
4	007CALS.d	S04	2022-12-08 13:36:31
5	008CALS.d	S05	2022-12-08 13:39:17
6	009CALS.d	S06	2022-12-08 13:42:01
7	010CALS.d	S07	2022-12-08 13:44:48
8	011CALS.d	S08	2022-12-08 13:47:32

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	77.78	0.0000	P	34.1
2	☐	1.000	1.000	2951.42	0.0006	P	8.0
3	☐	50.000	53.191	153166.82	0.0298	P	4.7
4	☐	125.000	132.718	374336.62	0.0743	P	5.3
5	☐	250.000	267.203	721678.06	0.1496	P	2.1
6	☐	500.000	499.721	1357241.84	0.2798	A	3.1
7	☐	1000.000	994.715	2591418.07	0.5569	A	3.6
8	☐			862.26	0.0002	P	16.6

$$y = 5.5988\text{E-}004 * x + 1.5272\text{E-}005$$

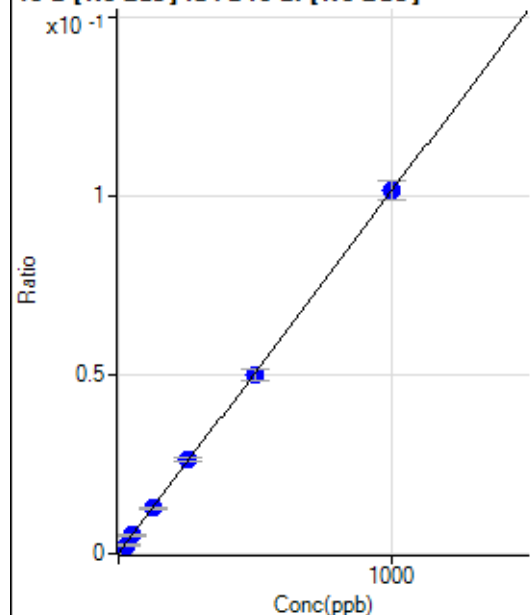
$$R = 0.9998$$

$$DL = 0.02794$$

$$BEC = 0.02728$$

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	438.91	0.0001	P	7.7
2	☐	25.000	22.468	12105.02	0.0024	P	11.1
3	☐	50.000	49.691	26286.69	0.0051	P	6.9
4	☐	125.000	124.066	63639.68	0.0126	P	7.0
5	☐	250.000	259.221	126925.71	0.0263	P	4.7
6	☐	500.000	493.304	242494.19	0.0500	P	6.1
7	☐	1000.000	1001.238	471731.57	0.1014	P	5.4
8	☐			15385.80	0.0037	P	8.1

$$y = 1.0119\text{E-}004 * x + 8.6315\text{E-}005$$

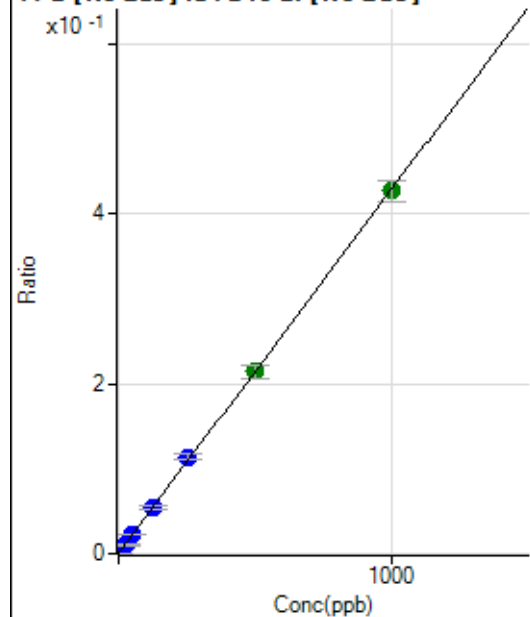
$$R = 0.9999$$

$$DL = 0.1981$$

$$BEC = 0.853$$

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	2225.21	0.0004	P	2.0
2	☐	25.000	23.167	53089.13	0.0103	P	9.2
3	☐	50.000	51.485	115424.42	0.0225	P	8.1
4	☐	125.000	128.214	278282.21	0.0553	P	8.3
5	☐	250.000	264.215	547273.92	0.1135	P	5.4
6	☐	500.000	500.477	1040349.19	0.2145	A	7.5
7	☐	1000.000	995.778	1983840.47	0.4264	A	5.6
8	☐			66122.71	0.0161	P	7.8

$$y = 4.2780\text{E-}004 * x + 4.3755\text{E-}004$$

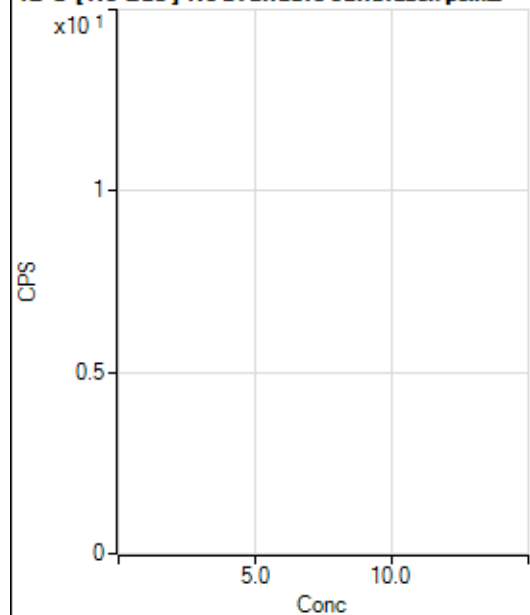
$$R = 0.9999$$

$$DL = 0.06199$$

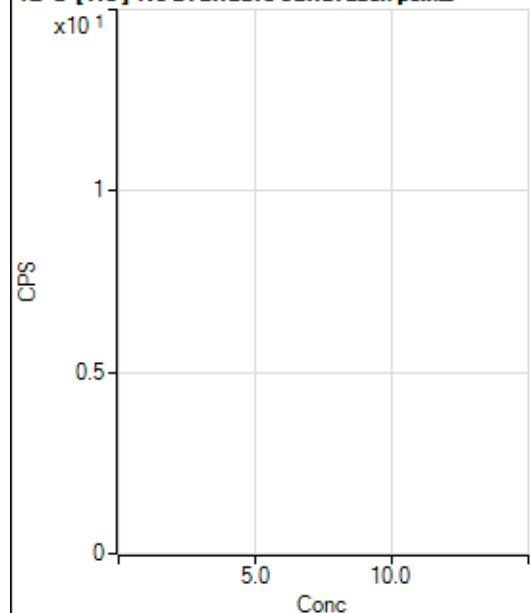
$$BEC = 1.023$$

Weight: <None>

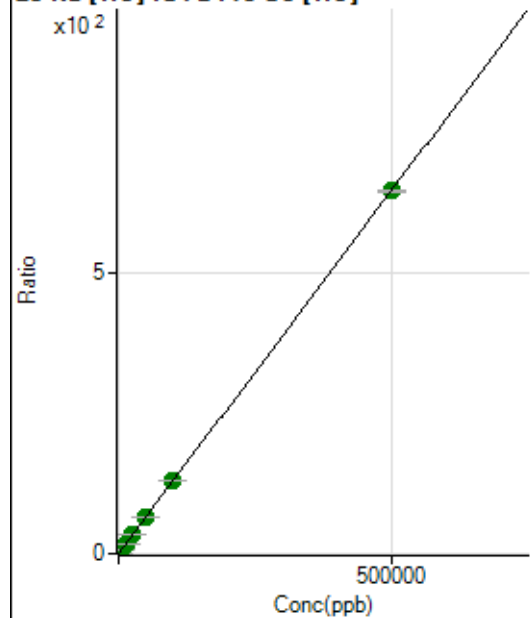
Min Conc: 0

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	39842.30	0.0709	P	1.0
2	☐	500.000	483.190	391077.81	0.6949	P	0.3
3	☐	5000.000	5175.818	3748782.52	6.7553	A	1.2
4	☐	12500.000	12983.545	9099398.01	16.8387	A	1.1
5	☐	25000.000	25794.330	17685840.10	33.3834	A	0.9
6	☐	50000.000	51210.609	35114600.09	66.2077	A	1.2
7	☐	100000.00	101325.24	68815815.89	130.9291	A	0.8
8	☐	500000.00	499560.34	332241874.0	645.2365	A	0.6

$$y = 0.0013 * x + 0.0709$$

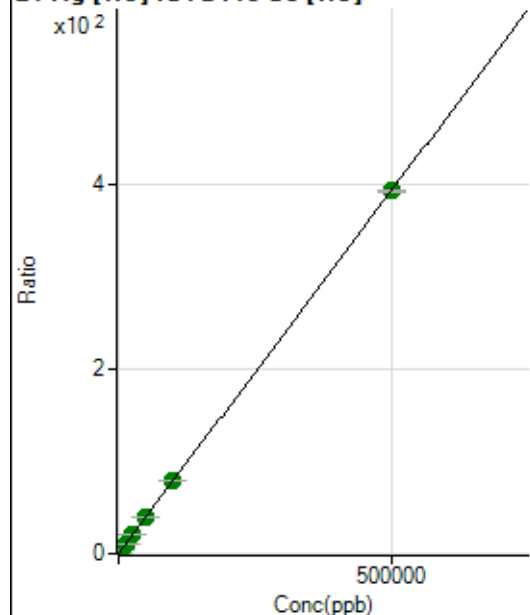
$$R = 1.0000$$

$$DL = 1.571$$

$$BEC = 54.88$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	409.27	0.0007	P	8.1
2	☐	500.000	488.182	216828.15	0.3853	P	0.7
3	☐	5000.000	5291.493	2313531.79	4.1690	A	1.7
4	☐	12500.000	13226.645	5630541.22	10.4197	A	1.0
5	☐	25000.000	26173.530	10923142.95	20.6183	A	0.5
6	☐	50000.000	51348.355	21453192.84	40.4491	A	0.6
7	☐	100000.00	100959.37	41799833.34	79.5290	A	0.5
8	☐	500000.00	499593.54	202641263.7	393.5432	A	0.6

$$y = 7.8773\text{E-}004 * x + 7.2820\text{E-}004$$

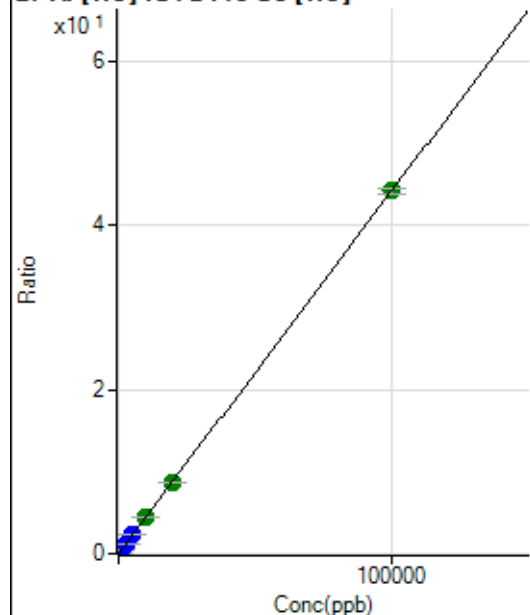
$$R = 1.0000$$

$$DL = 0.2244$$

$$BEC = 0.9244$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	127.78	0.0002	P	4.3
2	☐	20.000	20.037	5102.78	0.0091	P	1.5
3	☐	1000.000	1033.739	253212.65	0.4563	P	1.7
4	☐	2500.000	2595.835	618964.36	1.1454	P	0.5
5	☐	5000.000	5080.074	1187421.84	2.2414	P	0.4
6	☐	10000.000	9989.885	2337573.29	4.4075	A	0.8
7	☐	20000.000	19579.565	4540076.26	8.6381	A	0.9
8	☐	100000.00	100078.36	22734476.90	44.1517	A	1.4

$$y = 4.4117\text{E-}004 * x + 2.2732\text{E-}004$$

$$R = 1.0000$$

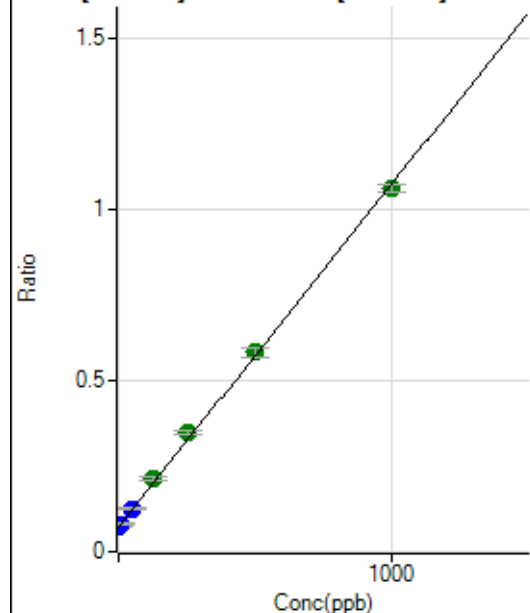
$$DL = 0.06652$$

$$BEC = 0.5153$$

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	562537.34	0.0727	P	2.3
2	☐	10.000	6.881	629354.87	0.0796	P	5.0
3	☐	50.000	53.511	980178.23	0.1263	P	2.8
4	☐	125.000	143.338	1650677.05	0.2162	A	5.3
5	☐	250.000	274.223	2543294.18	0.3473	A	3.4
6	☐	500.000	510.054	4318124.44	0.5834	A	4.4
7	☐	1000.000	986.481	7662208.68	1.0604	A	2.0
8	☐			659404.59	0.0963	P	2.8

$$y = 0.0010 * x + 0.0727$$

$$R = 0.9994$$

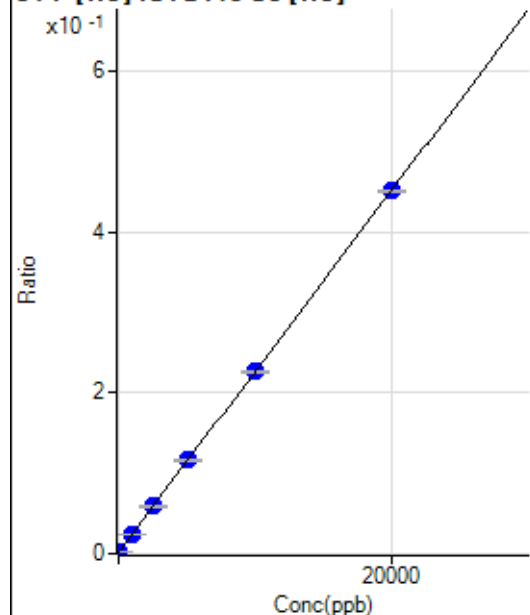
$$DL = 4.998$$

$$BEC = 72.66$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-12.053	866.71	0.0015	P	9.9
2	☐	0.000	12.053	1172.30	0.0021	P	9.6
3	☐	1000.000	1001.708	13492.34	0.0243	P	1.5
4	☐	2500.000	2542.408	31839.23	0.0589	P	1.5
5	☐	5000.000	5092.023	61554.62	0.1162	P	0.8
6	☐	10000.000	9982.455	119886.80	0.2260	P	0.4
7	☐	20000.000	19980.381	236843.81	0.4506	P	0.4
8	☐			933.39	0.0018	P	14.1

$$y = 2.2462E-005 * x + 0.0018$$

$$R = 1.0000$$

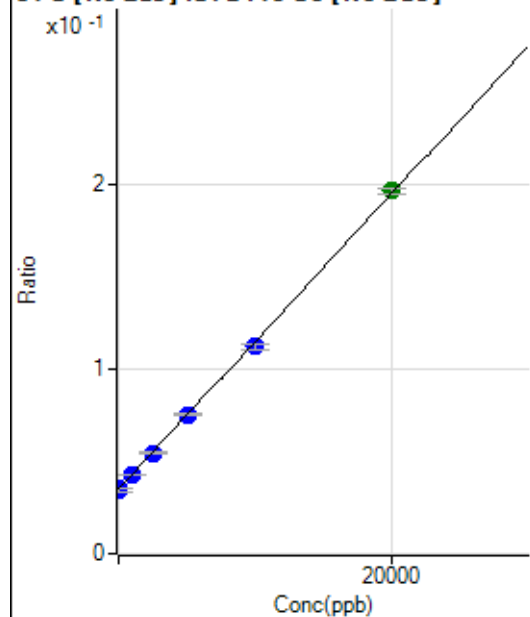
$$DL = 23.48$$

$$BEC = 80.69$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	51.028	273067.63	0.0353	P	2.1
2	☐	0.000	-51.028	272602.60	0.0345	P	5.3
3	☐	1000.000	951.549	329926.16	0.0425	P	1.1
4	☐	2500.000	2453.051	416263.85	0.0545	P	3.3
5	☐	5000.000	5030.374	550110.63	0.0751	P	1.1
6	☐	10000.000	9647.706	829357.16	0.1120	P	2.6
7	☐	20000.000	20176.845	1417788.25	0.1962	A	1.5
8	☐			246226.79	0.0360	P	1.3

$$y = 7.9943\text{E-}006 * x + 0.0349$$

$$R = 0.9998$$

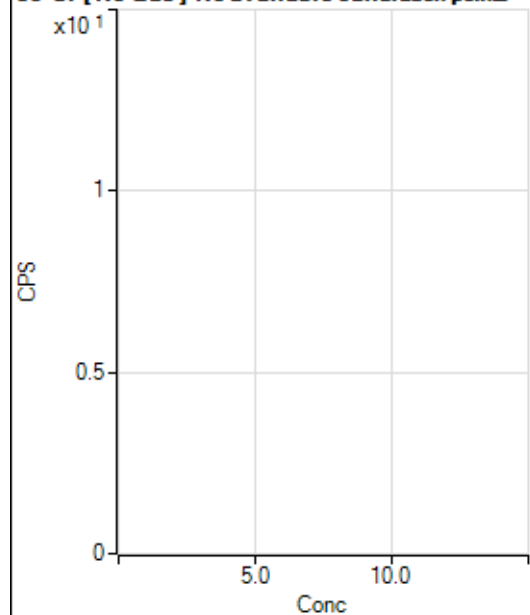
$$DL = 485.1$$

$$BEC = 4366$$

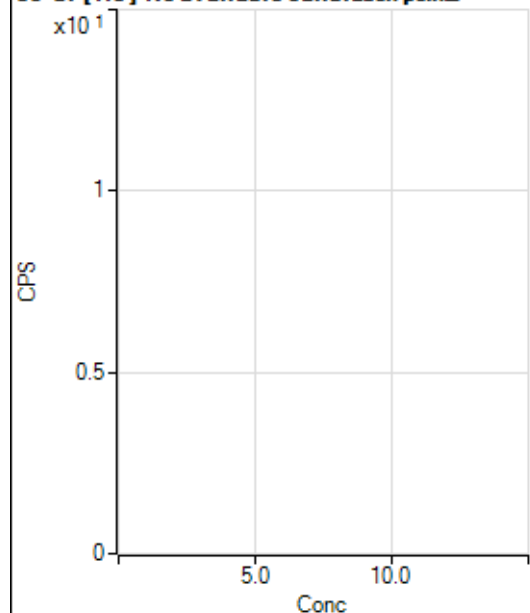
Weight: <None>

Min Conc: 0

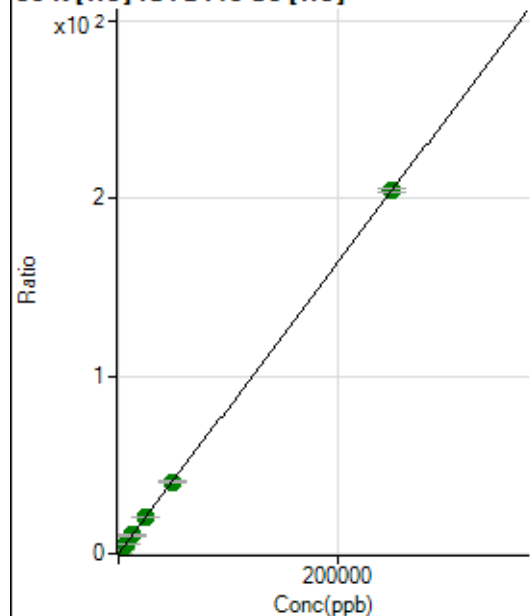
35 Cl [No Gas] No available calibration points



	R _j 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	42395.87	0.0754	P	0.5
2	☐	500.000	502.311	273517.01	0.4860	P	1.4
3	☐	2500.000	2577.963	1211345.20	2.1827	A	0.8
4	☐	6250.000	6290.971	2819507.68	5.2177	A	1.3
5	☐	12500.000	12515.550	5459659.63	10.3058	A	0.4
6	☐	25000.000	24884.770	10828336.44	20.4165	A	0.6
7	☐	50000.000	49513.152	21311564.54	40.5480	A	0.7
8	☐	250000.00	250106.30	105307743.3	204.5148	A	0.9

$$y = 8.1741\text{E-}004 * x + 0.0754$$

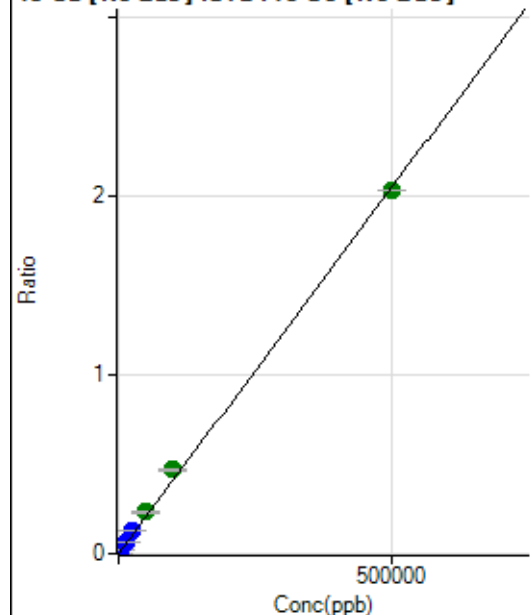
$$R = 1.0000$$

$$DL = 1.274$$

$$BEC = 92.27$$

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	297.23	0.0000	P	19.0
2	☐	500.000	492.332	16183.99	0.0020	P	7.8
3	☐	5000.000	6281.590	199404.39	0.0257	P	3.9
4	☐	12500.000	15457.451	482319.67	0.0632	P	5.0
5	☐	25000.000	31283.703	936246.11	0.1278	P	1.5
6	☐	50000.000	57660.953	1743806.42	0.2356	A	4.1
7	☐	100000.00	115428.25	3407489.22	0.4716	A	2.2
8	☐	500000.00	495747.32	13870020.28	2.0252	A	0.1

$$y = 4.0850\text{E-}006 * x + 3.8521\text{E-}005$$

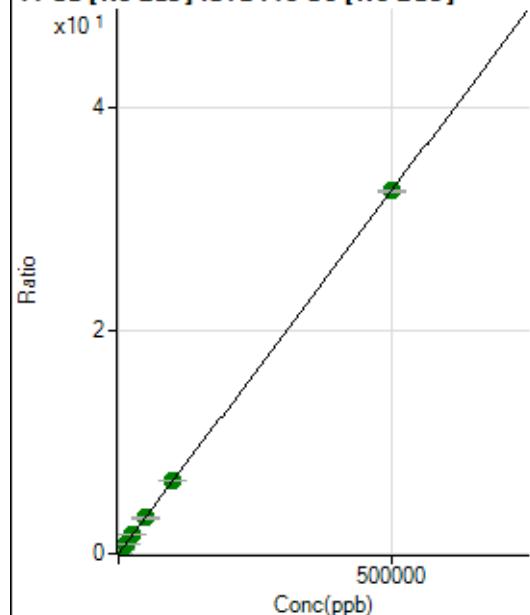
$$R = 0.9994$$

$$DL = 5.362$$

$$BEC = 9.43$$

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	15017.47	0.0019	P	1.8
2	☐	500.000	495.539	270389.58	0.0342	P	7.8
3	☐	5000.000	5132.570	2611272.72	0.3365	A	3.1
4	☐	12500.000	12538.700	6253914.53	0.8193	A	5.5
5	☐	25000.000	25593.961	12233725.28	1.6704	A	1.0
6	☐	50000.000	49700.735	23996033.71	3.2418	A	4.3
7	☐	100000.00	100031.23	47137909.18	6.5228	A	0.6
8	☐	500000.00	499991.69	223240521.1	32.5954	A	0.2

$$y = 6.5188\text{E-}005 * x + 0.0019$$

$$R = 1.0000$$

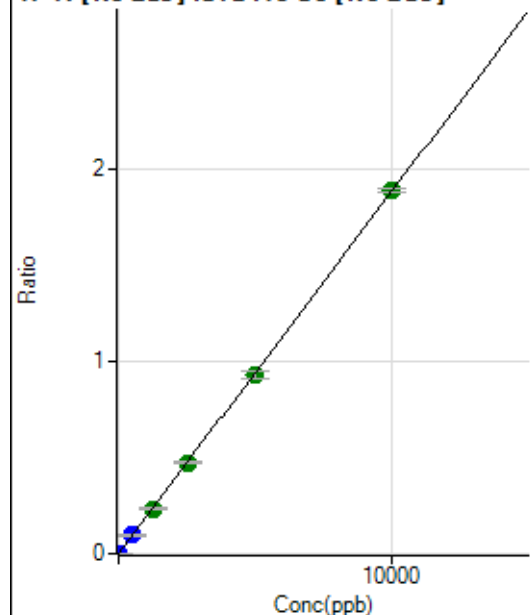
$$DL = 1.588$$

$$BEC = 29.78$$

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	105.56	0.0000	P	30.5
2	☐	5.000	4.575	6901.76	0.0009	P	9.0
3	☐	500.000	510.245	745050.87	0.0960	P	3.2
4	☐	1250.000	1231.447	1768672.32	0.2317	A	5.6
5	☐	2500.000	2518.551	3470780.16	0.4739	A	1.0
6	☐	5000.000	4940.303	6880895.90	0.9296	A	4.4
7	☐	10000.000	10027.018	13633737.11	1.8866	A	1.0
8	☐			3078.18	0.0004	P	9.2

$$y = 1.8815\text{E-}004 * x + 1.3667\text{E-}005$$

$$R = 1.0000$$

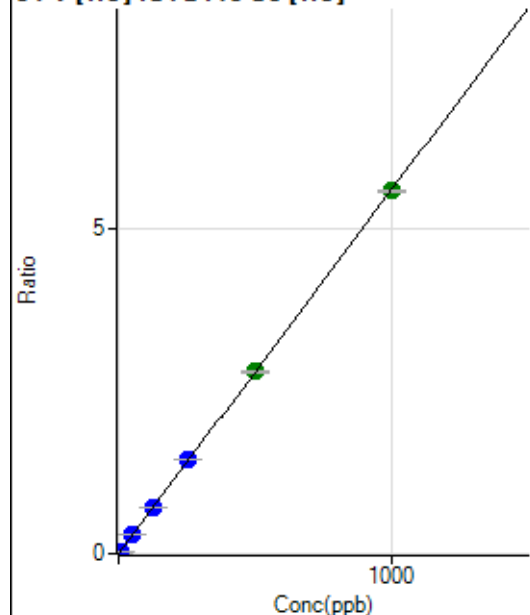
$$DL = 0.06648$$

$$BEC = 0.07264$$

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	6.67	0.0000	P	50.1
2	☐	5.000	4.797	15082.08	0.0268	P	1.7
3	☐	50.000	52.107	161483.31	0.2910	P	0.3
4	☐	125.000	129.179	389790.19	0.7213	P	0.5
5	☐	250.000	257.373	761355.29	1.4371	P	0.5
6	☐	500.000	500.383	1481904.89	2.7941	A	1.5
7	☐	1000.000	997.339	2927030.02	5.5690	A	0.7
8	☐			635.58	0.0012	P	5.5

$$y = 0.0056 * x + 1.1868\text{E-}005$$

$$R = 1.0000$$

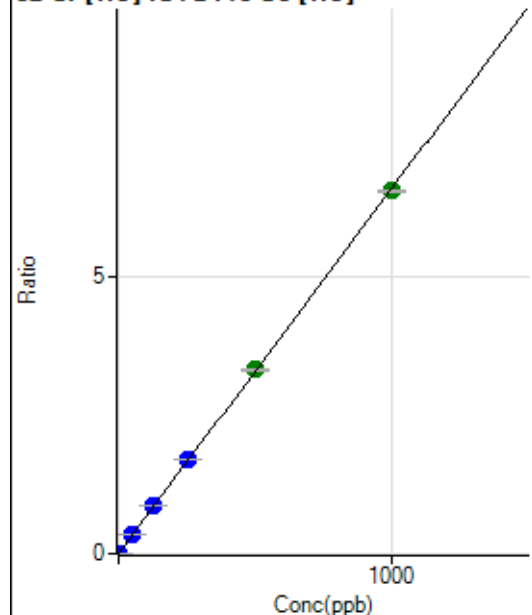
$$DL = 0.003197$$

$$BEC = 0.002125$$

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	1113.39	0.0020	P	7.4
2	☐	2.000	1.930	8286.79	0.0147	P	1.3
3	☐	50.000	52.908	194949.45	0.3513	P	0.7
4	☐	125.000	131.287	469449.56	0.8687	P	0.1
5	☐	250.000	260.069	910661.86	1.7190	P	0.2
6	☐	500.000	503.962	1765689.44	3.3291	A	0.3
7	☐	1000.000	994.571	3452203.63	6.5682	A	0.4
8	☐			20052.28	0.0389	P	0.6

$$y = 0.0066 * x + 0.0020$$

$$R = 0.9999$$

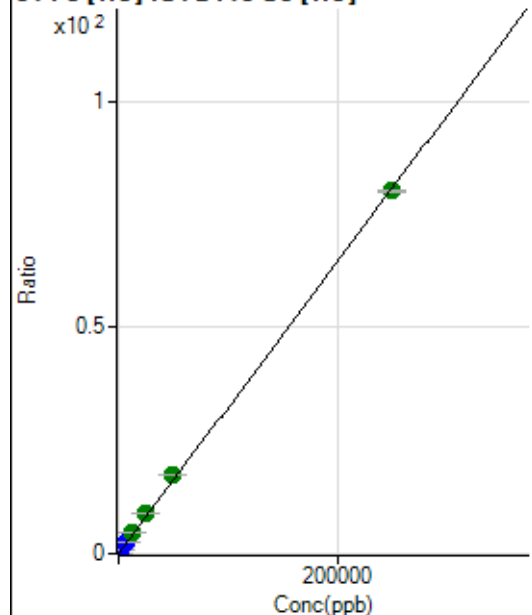
$$DL = 0.0668$$

$$BEC = 0.3$$

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	2265.84	0.0040	P	11.1
2	☐	50.000	55.416	12307.70	0.0219	P	3.7
3	☐	2500.000	2998.689	537972.49	0.9694	P	0.6
4	☐	6250.000	7423.166	1293534.36	2.3937	P	1.0
5	☐	12500.000	14112.525	2409019.35	4.5472	A	0.5
6	☐	25000.000	27453.281	4689542.87	8.8420	A	0.5
7	☐	50000.000	53842.695	9112637.32	17.3374	A	0.3
8	☐	250000.00	248871.19	41256745.71	80.1223	A	0.2

$$y = 3.2193E-004 * x + 0.0040$$

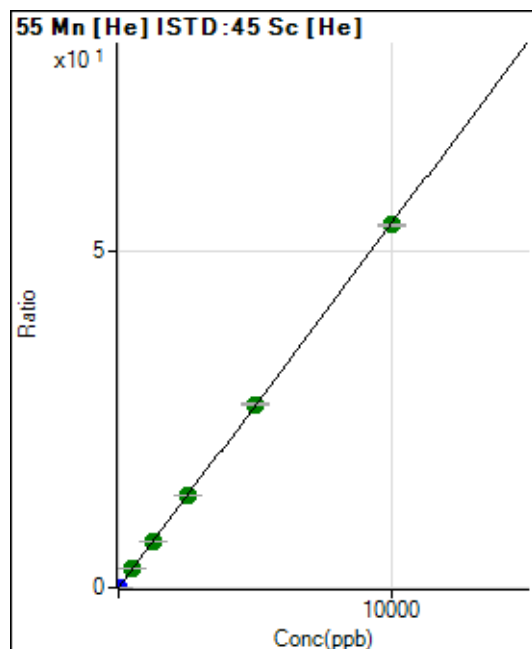
$$R = 0.9999$$

$$DL = 4.158$$

$$BEC = 12.52$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	261.11	0.0005	P	15.2
2	☐	1.000	0.960	3189.26	0.0057	P	1.9
3	☐	500.000	520.098	1564661.81	2.8195	A	1.5
4	☐	1250.000	1283.476	3759466.40	6.9571	A	1.1
5	☐	2500.000	2552.790	7330335.37	13.8369	A	0.6
6	☐	5000.000	5038.823	14485280.20	27.3115	A	0.3
7	☐	10000.000	9962.201	28380510.13	53.9969	A	0.3
8	☐			27595.35	0.0536	P	0.5

$$y = 0.0054 * x + 4.6455E-004$$

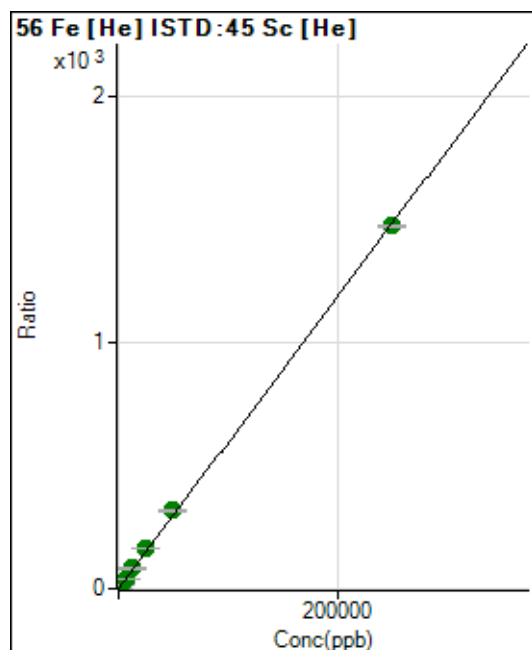
$$R = 1.0000$$

$$DL = 0.03908$$

$$BEC = 0.08571$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	14056.77	0.0250	P	0.6
2	☐	50.000	53.046	190511.40	0.3385	P	0.9
3	☐	2500.000	2841.073	9332634.01	16.8163	A	0.4
4	☐	6250.000	6991.704	22343172.03	41.3473	A	0.7
5	☐	12500.000	13860.045	43410467.18	81.9406	A	0.7
6	☐	25000.000	27399.841	85900658.40	161.9634	A	0.4
7	☐	50000.000	53485.139	166156140.7	316.1326	A	0.6
8	☐	250000.00	248973.03	757706728.0	1,471.504	A	0.3

$$y = 0.0059 * x + 0.0250$$

$$R = 0.9999$$

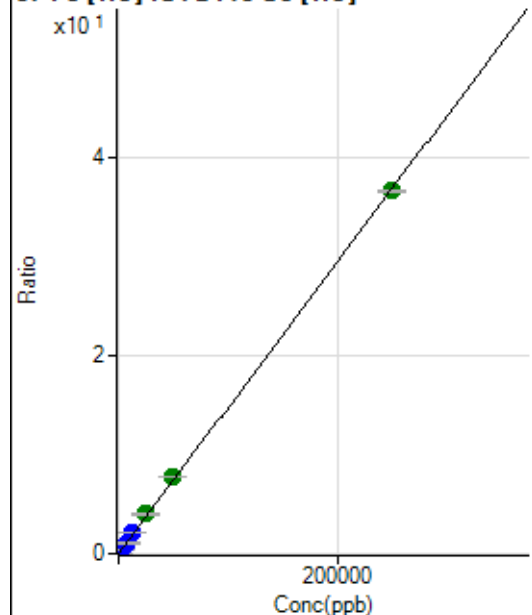
$$DL = 0.07182$$

$$BEC = 4.231$$

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	300.01	0.0005	P	13.1
2	☐	50.000	54.754	4843.46	0.0086	P	3.4
3	☐	2500.000	2927.177	239801.86	0.4321	P	1.4
4	☐	6250.000	7232.003	576476.51	1.0668	P	0.8
5	☐	12500.000	14370.115	1122713.80	2.1192	P	0.5
6	☐	25000.000	27199.640	2127213.08	4.0108	A	1.5
7	☐	50000.000	53119.679	4116585.36	7.8324	A	0.8
8	☐	250000.00	249033.77	18906739.77	36.7175	A	0.4

$$y = 1.4744\text{E-}004 * x + 5.3360\text{E-}004$$

R = 0.9999

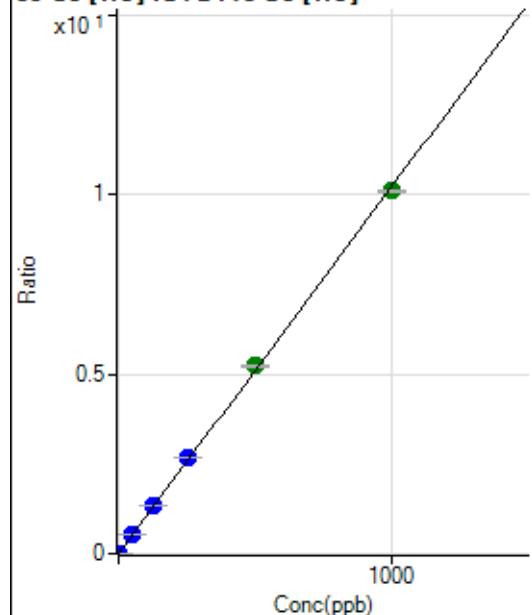
DL = 1.425

BEC = 3.619

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	55.56	0.0001	P	35.9
2	☐	1.000	1.024	5939.00	0.0106	P	2.9
3	☐	50.000	53.800	304986.89	0.5496	P	0.3
4	☐	125.000	132.186	729580.36	1.3501	P	0.4
5	☐	250.000	261.031	1412370.29	2.6660	P	0.6
6	☐	500.000	513.693	2782599.85	5.2465	A	1.1
7	☐	1000.000	989.308	5310576.10	10.1040	A	0.5
8	☐			5127.59	0.0100	P	1.7

$$y = 0.0102 * x + 9.8772\text{E-}005$$

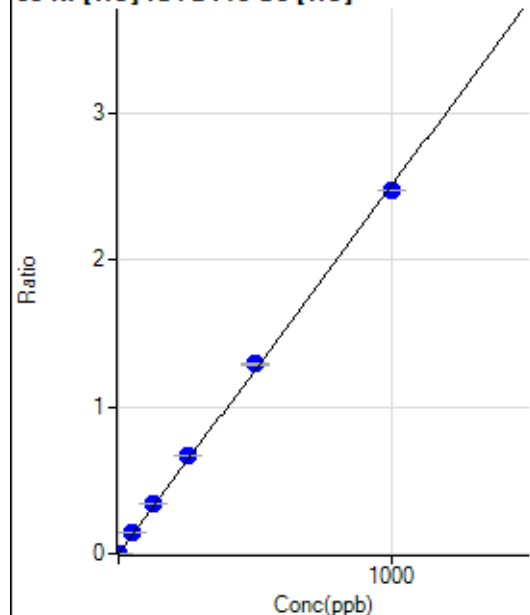
R = 0.9998

DL = 0.01041

BEC = 0.009671

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	85.55	0.0002	P	27.5
2	☐	1.000	1.021	1526.76	0.0027	P	1.1
3	☐	50.000	55.803	77738.93	0.1401	P	0.6
4	☐	125.000	135.849	184153.20	0.3408	P	0.8
5	☐	250.000	267.016	354780.43	0.6697	P	0.2
6	☐	500.000	515.926	686204.48	1.2938	P	0.6
7	☐	1000.000	986.137	1299737.04	2.4729	P	0.2
8	☐			3781.62	0.0073	P	3.1

$$y = 0.0025 * x + 1.5222E-004$$

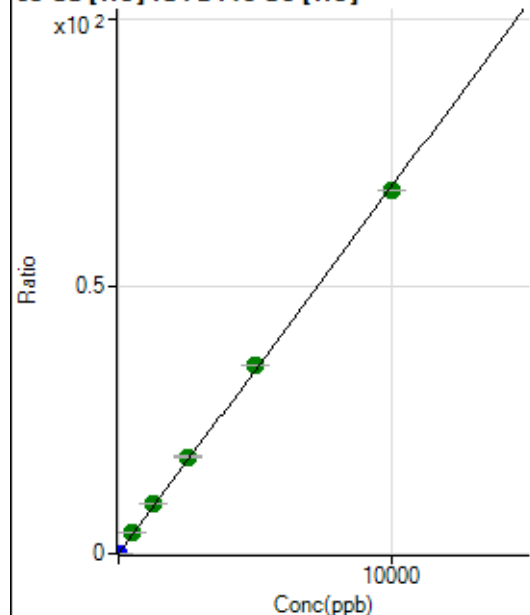
$$R = 0.9996$$

$$DL = 0.05007$$

$$BEC = 0.06071$$

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	968.93	0.0017	P	1.6
2	☐	2.000	2.074	8976.10	0.0159	P	2.1
3	☐	500.000	554.893	2113650.32	3.8086	A	0.8
4	☐	1250.000	1344.137	4984048.05	9.2231	A	0.6
5	☐	2500.000	2645.182	9614667.63	18.1489	A	1.2
6	☐	5000.000	5131.630	18672807.08	35.2071	A	0.7
7	☐	10000.000	9883.378	35638886.97	67.8064	A	0.2
8	☐			7738.73	0.0150	P	1.3

$$y = 0.0069 * x + 0.0017$$

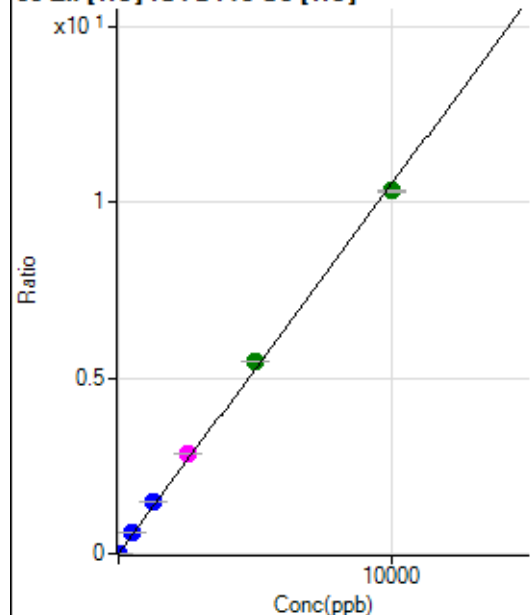
$$R = 0.9997$$

$$DL = 0.01187$$

$$BEC = 0.2513$$

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	795.59	0.0014	P	4.8
2	☐	2.000	2.325	2172.40	0.0039	P	4.9
3	☐	500.000	557.579	326136.57	0.5877	P	0.7
4	☐	1250.000	1385.312	787847.30	1.4580	P	0.5
5	☐	2500.000	2714.557	1512781.07	2.8556	M	0.3
6	☐	5000.000	5209.262	2905669.57	5.4785	A	0.2
7	☐	10000.000	9821.937	5428550.06	10.3284	A	0.3
8	☐			4215.08	0.0082	P	3.4

$$y = 0.0011 * x + 0.0014$$

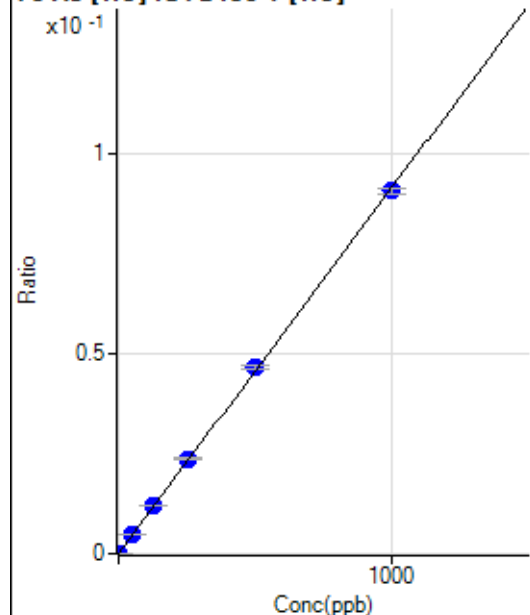
$$R = 0.9994$$

$$DL = 0.195$$

$$BEC = 1.346$$

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	1.85	0.0000	P	99.1
2	☐	1.000	1.036	393.22	0.0001	P	3.0
3	☐	50.000	52.441	19480.64	0.0048	P	0.9
4	☐	125.000	130.839	47431.35	0.0120	P	2.1
5	☐	250.000	259.665	92402.25	0.0237	P	1.0
6	☐	500.000	508.731	182253.06	0.0465	P	1.8
7	☐	1000.000	992.366	350274.97	0.0907	P	1.3
8	☐			92.59	0.0000	P	9.8

$$y = 9.1429E-005 * x + 4.4426E-007$$

$$R = 0.9999$$

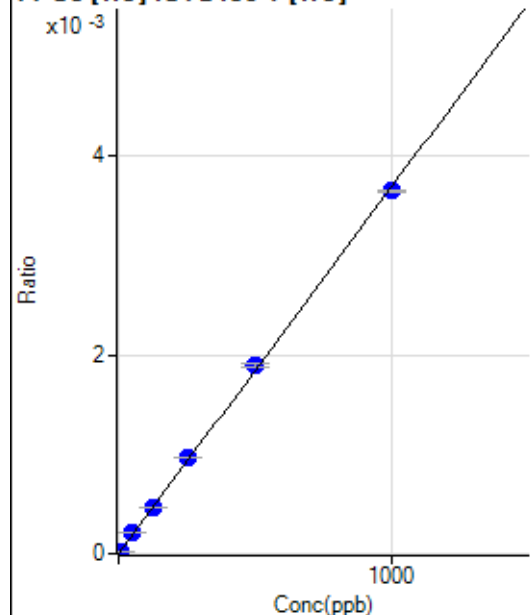
$$DL = 0.01445$$

$$BEC = 0.004859$$

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	5.616	85.56	0.0000	P	29.0
3	☐	50.000	56.241	843.37	0.0002	P	2.2
4	☐	125.000	126.396	1850.14	0.0005	P	0.2
5	☐	250.000	264.298	3797.19	0.0010	P	0.3
6	☐	500.000	512.938	7418.59	0.0019	P	1.9
7	☐	1000.000	989.467	14100.12	0.0037	P	0.2
8	☐			5.56	0.0000	P	34.9

$$y = 3.6911\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9998$$

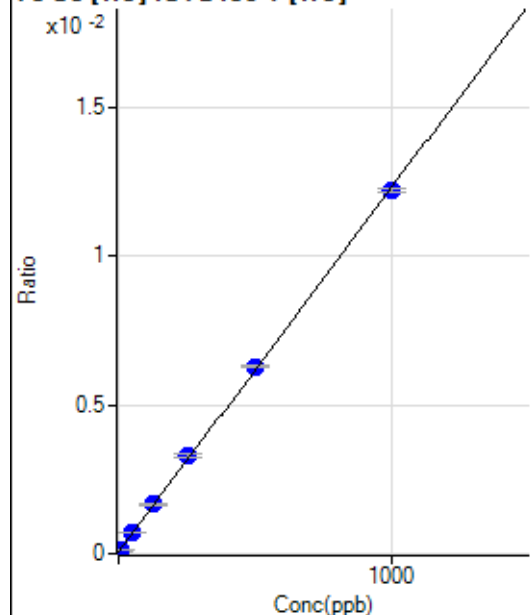
$$DL = 0$$

$$BEC = 0$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	230.25	0.0001	P	3.4
2	☐	5.000	4.994	482.73	0.0001	P	7.6
3	☐	50.000	52.070	2814.48	0.0007	P	2.7
4	☐	125.000	131.805	6613.23	0.0017	P	4.1
5	☐	250.000	264.756	12821.01	0.0033	P	2.8
6	☐	500.000	508.773	24606.79	0.0063	P	1.5
7	☐	1000.000	990.970	47016.70	0.0122	P	1.2
8	☐			242.59	0.0001	P	6.3

$$y = 1.2233\text{E-}005 * x + 5.5775\text{E-}005$$

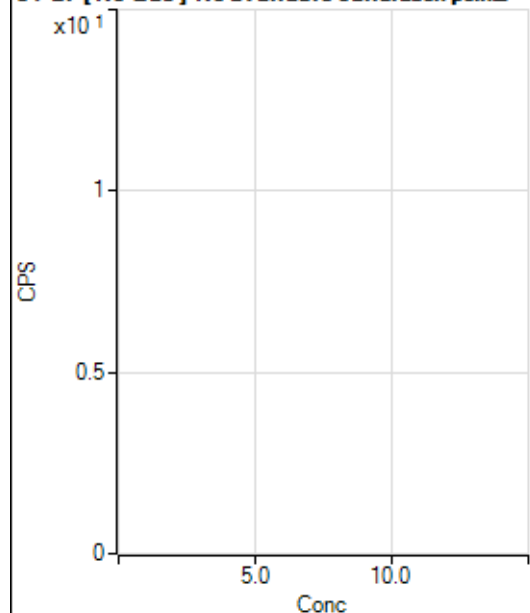
$$R = 0.9998$$

$$DL = 0.4612$$

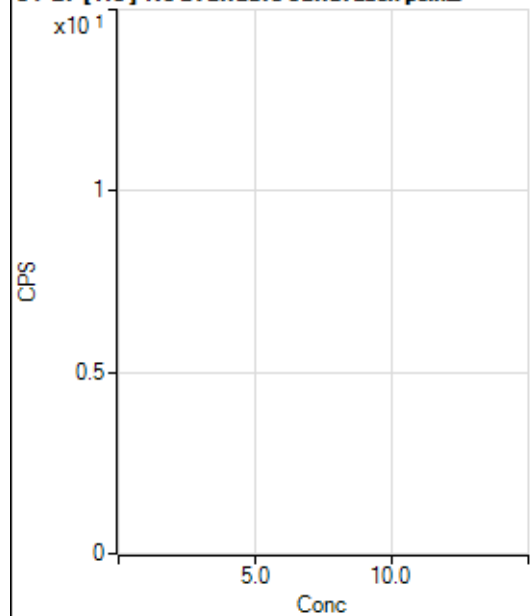
$$BEC = 4.559$$

Weight: <None>

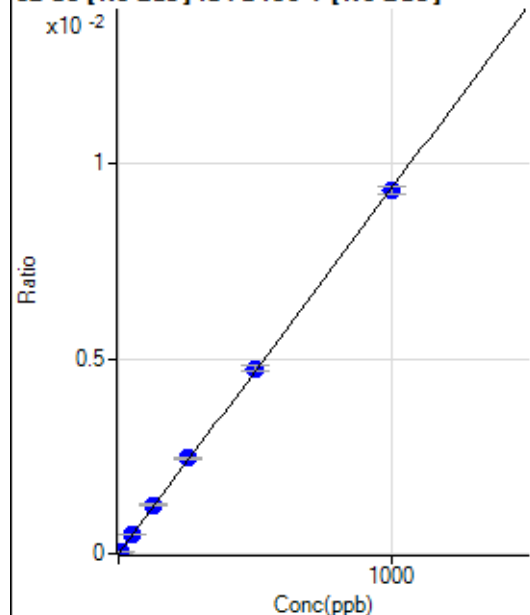
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			67477.50		P	0.5
2	☐			66584.04		P	2.4
3	☐			65945.47		P	1.1
4	☐			63811.16		P	1.9
5	☐			61590.75		P	0.1
6	☐			61997.68		P	1.0
7	☐			62237.72		P	3.2
8	☐			60976.56		P	2.0

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			120.12		P	22.1
2	☐			123.46		P	32.8
3	☐			110.11		P	39.6
4	☐			136.81		P	11.2
5	☐			110.11		P	48.1
6	☐			113.45		P	22.2
7	☐			133.47		P	11.5
8	☐			133.47		P	15.6

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	45.84	0.0000	P	29.4
2	☐	5.000	4.865	909.51	0.0000	P	7.8
3	☐	50.000	52.542	9284.45	0.0005	P	4.2
4	☐	125.000	131.486	22768.04	0.0012	P	4.1
5	☐	250.000	261.811	44260.48	0.0025	P	2.6
6	☐	500.000	505.541	86419.88	0.0047	P	3.2
7	☐	1000.000	993.339	165504.66	0.0093	P	2.3
8	☐			300.83	0.0000	P	15.6

$$y = 9.3565E-006 * x + 2.4285E-006$$

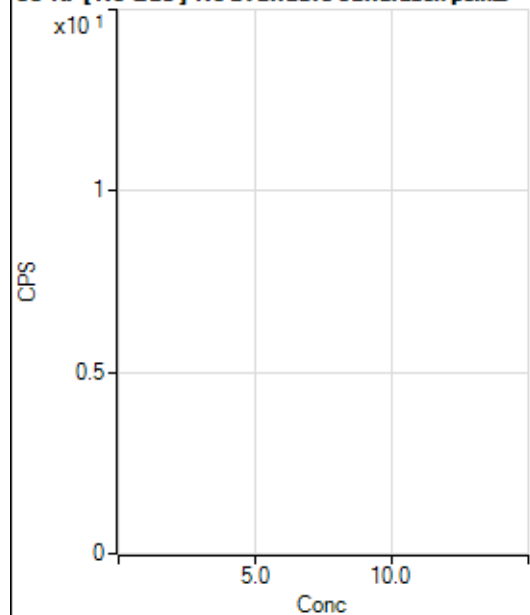
$$R = 0.9999$$

$$DL = 0.229$$

$$BEC = 0.2595$$

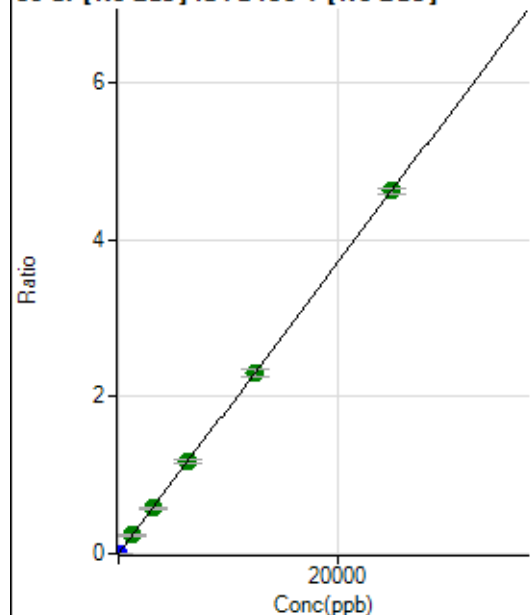
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			208.89		P	0.9
2	☐			188.89		P	1.0
3	☐			206.67		P	7.4
4	☐			218.89		P	15.0
5	☐			210.00		P	12.6
6	☐			211.11		P	16.0
7	☐			270.01		P	13.4
8	☐			288.89		P	12.2

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	352.79	0.0000	P	43.4
2	☐	1.000	0.988	3820.04	0.0002	P	5.3
3	☐	1250.000	1272.164	4424389.33	0.2354	A	2.7
4	☐	3125.000	3166.735	10820446.60	0.5859	A	4.8
5	☐	6250.000	6369.664	21269450.13	1.1784	A	2.8
6	☐	12500.000	12422.596	41961970.73	2.2982	A	4.6
7	☐	25000.000	25002.461	82349624.76	4.6255	A	1.8
8	☐			24701.98	0.0015	P	12.4

$$y = 1.8500\text{E-}004 * x + 1.8765\text{E-}005$$

$$R = 1.0000$$

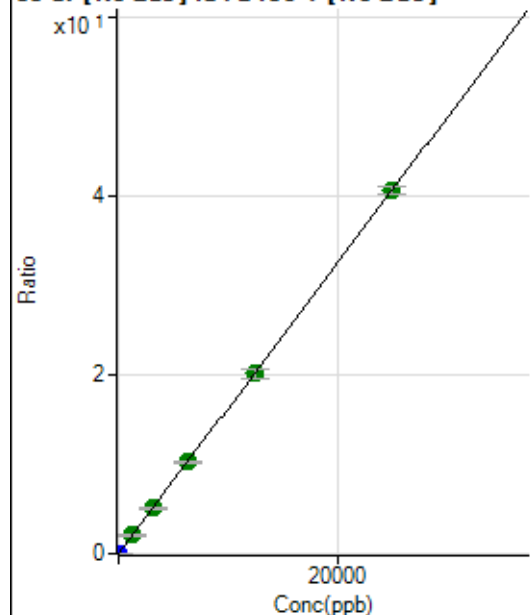
$$DL = 0.1321$$

$$BEC = 0.1014$$

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	402.80	0.0000	P	10.7
2	☐	1.000	0.949	29638.85	0.0016	P	6.0
3	☐	1250.000	1260.083	38493394.26	2.0478	A	2.4
4	☐	3125.000	3156.084	94737539.62	5.1289	A	3.7
5	☐	6250.000	6348.729	186230331.9	10.3173	A	2.2
6	☐	12500.000	12426.322	368695769.3	20.1939	A	4.9
7	☐	25000.000	25007.767	723506516.1	40.6399	A	2.1
8	☐			212887.44	0.0131	P	11.0

$$y = 0.0016 * x + 2.1405\text{E-}005$$

$$R = 1.0000$$

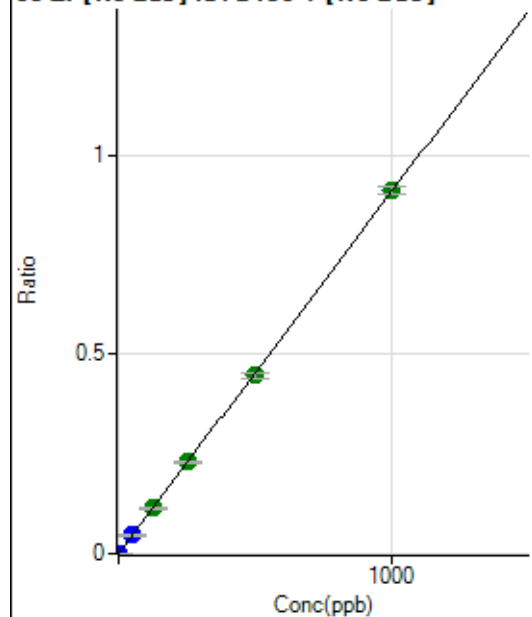
$$DL = 0.004212$$

$$BEC = 0.01317$$

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	780.60	0.0000	P	6.8
2	☐	1.000	0.914	16484.64	0.0009	P	7.1
3	☐	50.000	50.888	868134.10	0.0462	P	3.5
4	☐	125.000	125.157	2097314.63	0.1135	A	3.4
5	☐	250.000	252.918	4140600.74	0.2294	A	3.0
6	☐	500.000	492.426	8154871.45	0.4466	A	3.8
7	☐	1000.000	1002.994	16193759.22	0.9096	A	2.2
8	☐			4461.92	0.0003	P	6.1

$$y = 9.0686\text{E-}004 * x + 4.1471\text{E-}005$$

$$R = 1.0000$$

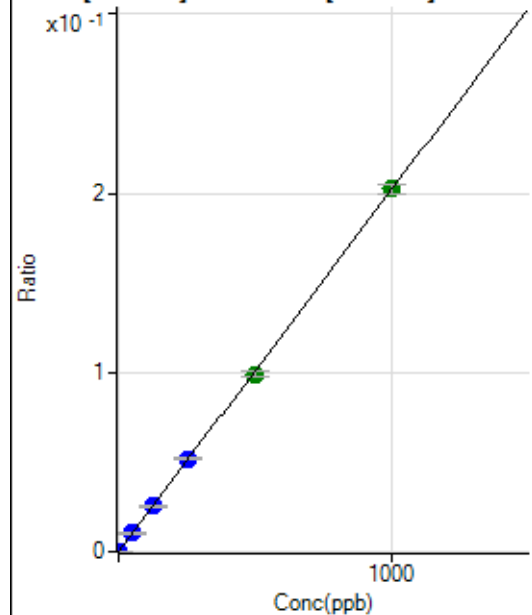
$$DL = 0.009395$$

$$BEC = 0.04573$$

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	127.78	0.0000	P	6.7
2	☐	1.000	0.888	3519.97	0.0002	P	14.5
3	☐	50.000	50.920	193342.50	0.0103	P	3.9
4	☐	125.000	127.439	475361.44	0.0257	P	4.2
5	☐	250.000	257.024	936722.81	0.0519	P	3.3
6	☐	500.000	490.824	1809806.49	0.0991	A	2.7
7	☐	1000.000	1002.481	3603278.25	0.2024	A	2.9
8	☐			961.17	0.0001	P	19.5

$$y = 2.0190\text{E-}004 * x + 6.7870\text{E-}006$$

$$R = 0.9999$$

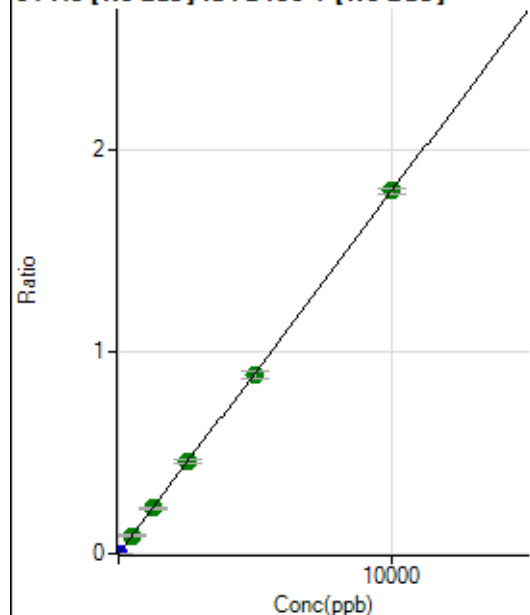
$$DL = 0.006801$$

$$BEC = 0.03362$$

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	3.4
2	☐	5.000	5.680	19519.05	0.0010	P	6.7
3	☐	500.000	502.192	1691143.75	0.0900	A	3.4
4	☐	1250.000	1262.543	4177988.16	0.2262	A	3.9
5	☐	2500.000	2546.299	8233102.36	0.4562	A	3.5
6	☐	5000.000	4947.577	16183652.10	0.8863	A	4.2
7	☐	10000.000	10012.959	31935420.16	1.7938	A	1.4
8	☐			10579.08	0.0007	P	10.8

$$y = 1.7914\text{E-}004 * x + 1.2544\text{E-}005$$

$$R = 1.0000$$

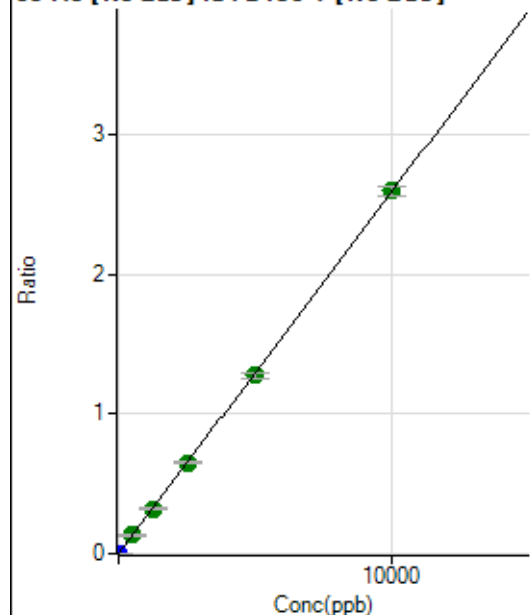
$$DL = 0.007107$$

$$BEC = 0.07002$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	25.00	0.0000	P	67.5
2	☐	5.000	4.812	23605.68	0.0012	P	7.4
3	☐	500.000	507.108	2464961.71	0.1312	A	3.8
4	☐	1250.000	1249.322	5967617.41	0.3231	A	4.7
5	☐	2500.000	2521.850	11772774.05	0.6522	A	2.6
6	☐	5000.000	4922.894	23250618.75	1.2732	A	2.9
7	☐	10000.000	10032.820	46193463.88	2.5948	A	2.6
8	☐			13459.38	0.0008	P	12.4

$$y = 2.5863\text{E-}004 * x + 1.3369\text{E-}006$$

$$R = 1.0000$$

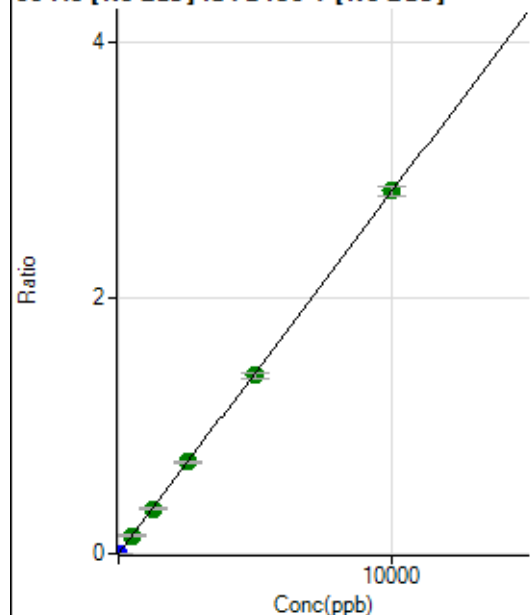
$$DL = 0.01046$$

$$BEC = 0.005169$$

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	163.89	0.0000	P	24.5
2	☐	5.000	4.820	25998.72	0.0014	P	5.9
3	☐	500.000	503.595	2676227.82	0.1424	A	5.1
4	☐	1250.000	1248.782	6522923.49	0.3532	A	4.1
5	☐	2500.000	2533.041	12929707.93	0.7163	A	2.6
6	☐	5000.000	4920.438	25409132.69	1.3915	A	3.5
7	☐	10000.000	10031.493	50502492.10	2.8368	A	2.8
8	☐			40882.97	0.0025	P	3.4

$$y = 2.8279\text{E-}004 * x + 8.6987\text{E-}006$$

$$R = 0.9999$$

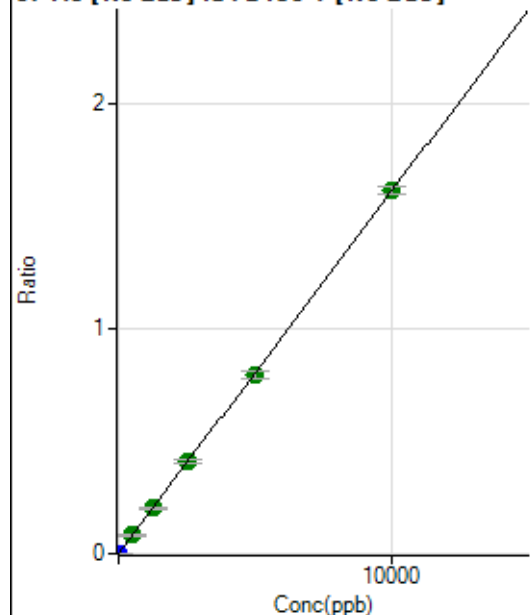
$$DL = 0.0226$$

$$BEC = 0.03076$$

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	36.11	0.0000	P	47.3
2	☐	5.000	4.706	14415.80	0.0008	P	7.8
3	☐	500.000	504.715	1530271.90	0.0814	A	3.5
4	☐	1250.000	1250.771	3726736.67	0.2018	A	3.8
5	☐	2500.000	2544.883	7409595.39	0.4105	A	3.1
6	☐	5000.000	4949.061	14576482.44	0.7983	A	4.4
7	☐	10000.000	10013.917	28757690.23	1.6153	A	2.1
8	☐			8199.78	0.0005	P	15.9

$$y = 1.6131\text{E-}004 * x + 1.9135\text{E-}006$$

$$R = 1.0000$$

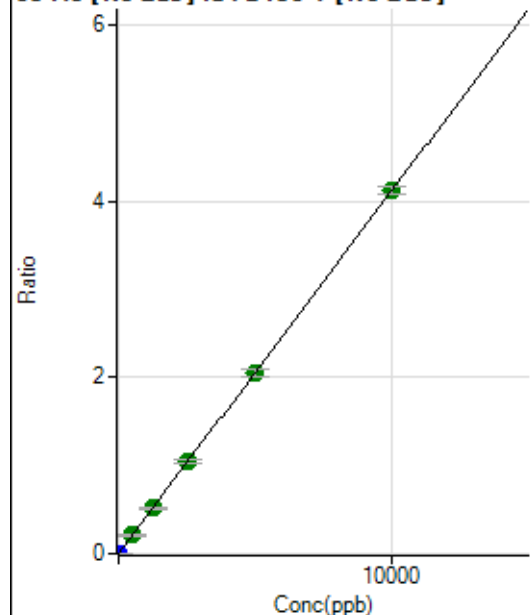
$$DL = 0.01682$$

$$BEC = 0.01186$$

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	88.89	0.0000	P	36.2
2	☐	5.000	4.742	37064.46	0.0020	P	7.4
3	☐	500.000	504.765	3904998.18	0.2078	A	3.2
4	☐	1250.000	1263.313	9604745.61	0.5200	A	3.4
5	☐	2500.000	2549.174	18937486.19	1.0492	A	3.0
6	☐	5000.000	4962.237	37292986.94	2.0424	A	4.1
7	☐	10000.000	10004.686	73309325.94	4.1178	A	2.0
8	☐			20150.64	0.0012	P	14.1

$$y = 4.1159\text{E-}004 * x + 4.7320\text{E-}006$$

$$R = 1.0000$$

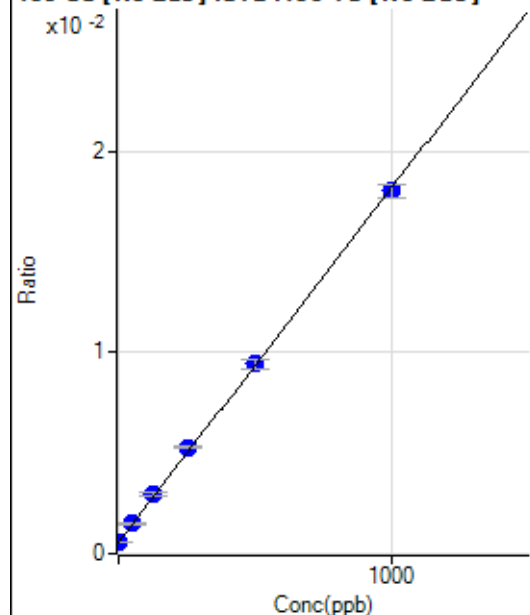
$$DL = 0.0125$$

$$BEC = 0.0115$$

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	8952.94	0.0006	P	3.3
2	☐	1.000	1.863	9553.41	0.0006	P	4.4
3	☐	50.000	53.865	24017.55	0.0015	P	4.2
4	☐	125.000	136.253	47124.54	0.0030	P	4.2
5	☐	250.000	268.288	81800.11	0.0053	P	2.6
6	☐	500.000	503.905	148216.34	0.0094	P	4.8
7	☐	1000.000	991.875	278811.20	0.0181	P	4.0
8	☐			7905.14	0.0006	P	3.0

$$y = 1.7630\text{E-}005 * x + 5.6428\text{E-}004$$

$$R = 0.9998$$

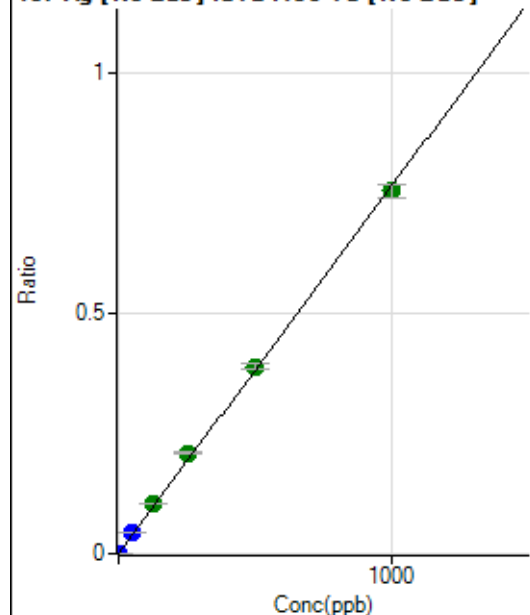
$$DL = 3.186$$

$$BEC = 32.01$$

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	83.33	0.0000	P	27.5
2	☐	1.000	1.025	12575.22	0.0008	P	7.1
3	☐	50.000	56.820	687833.20	0.0434	P	3.9
4	☐	125.000	136.195	1650845.13	0.1039	A	2.5
5	☐	250.000	274.598	3237162.29	0.2095	A	1.0
6	☐	500.000	509.687	6101415.63	0.3889	A	3.3
7	☐	1000.000	987.267	11634890.80	0.7532	A	3.6
8	☐			5189.95	0.0004	P	10.3

$$y = 7.6292E-004 * x + 5.2655E-006$$

$$R = 0.9996$$

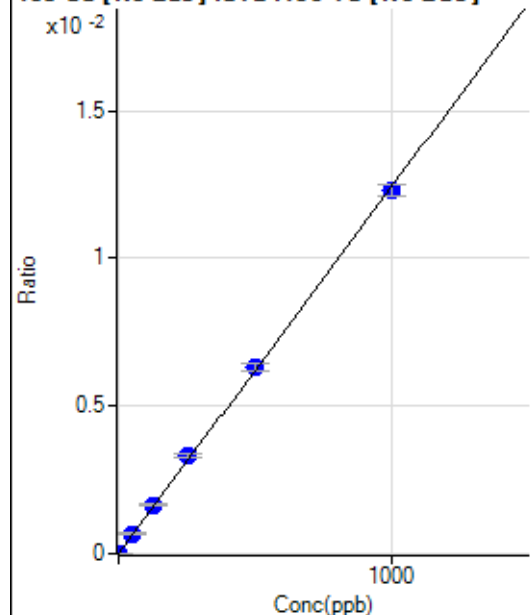
$$DL = 0.005697$$

$$BEC = 0.006902$$

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	25.00	0.0000	P	74.9
2	☐	1.000	0.953	213.90	0.0000	P	16.8
3	☐	50.000	54.432	10751.32	0.0007	P	4.6
4	☐	125.000	132.233	26119.45	0.0016	P	4.6
5	☐	250.000	267.752	51414.31	0.0033	P	3.0
6	☐	500.000	510.566	99528.80	0.0063	P	4.2
7	☐	1000.000	989.153	189835.90	0.0123	P	3.2
8	☐			105.56	0.0000	P	5.6

$$y = 1.2422E-005 * x + 1.5660E-006$$

$$R = 0.9997$$

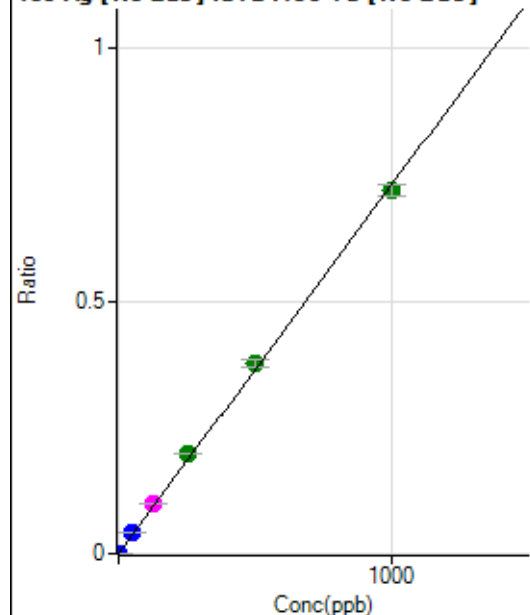
$$DL = 0.2833$$

$$BEC = 0.1261$$

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	16.67	0.0000	P	98.9
2	☐	1.000	1.009	11782.84	0.0007	P	5.9
3	☐	50.000	56.759	656694.67	0.0414	P	3.4
4	☐	125.000	136.095	1576696.23	0.0992	M	2.0
5	☐	250.000	271.221	3055992.37	0.1978	A	0.8
6	☐	500.000	517.496	5920696.70	0.3774	A	3.5
7	☐	1000.000	984.222	11086778.80	0.7177	A	3.0
8	☐			4964.87	0.0004	P	15.4

$$y = 7.2919\text{E-}004 * x + 1.0440\text{E-}006$$

$$R = 0.9995$$

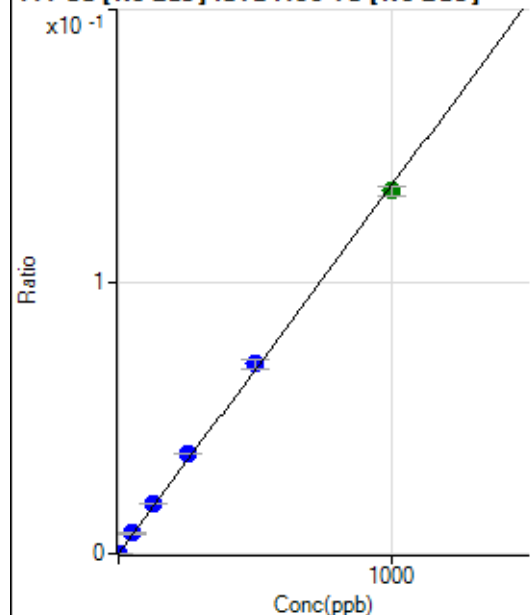
$$DL = 0.004246$$

$$BEC = 0.001432$$

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	429.31	0.0000	P	3.4
2	☐	1.000	1.059	2724.29	0.0002	P	5.3
3	☐	50.000	55.366	119227.00	0.0075	P	3.7
4	☐	125.000	135.475	291510.04	0.0183	P	3.2
5	☐	250.000	271.042	566812.69	0.0367	P	1.3
6	☐	500.000	514.652	1092372.05	0.0696	P	4.2
7	☐	1000.000	985.836	2060118.12	0.1334	A	2.5
8	☐			1065.56	0.0001	P	10.3

$$y = 1.3524\text{E-}004 * x + 2.7067\text{E-}005$$

$$R = 0.9996$$

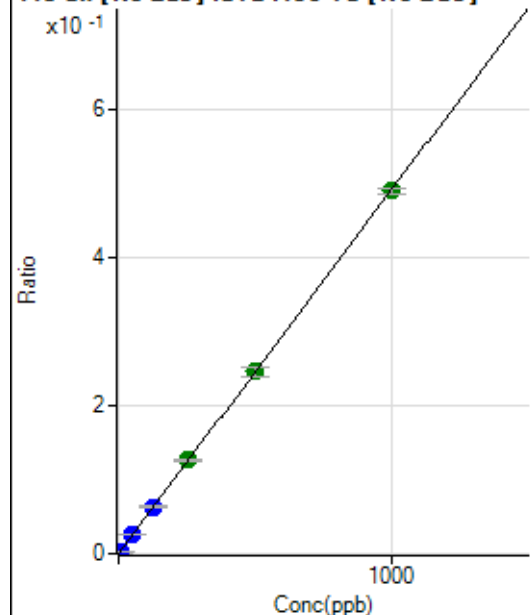
$$DL = 0.02063$$

$$BEC = 0.2001$$

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	727.82	0.0000	P	13.9
2	☐	5.000	4.859	38866.99	0.0024	P	6.0
3	☐	50.000	52.228	407677.11	0.0257	P	3.2
4	☐	125.000	127.953	998970.14	0.0629	P	3.8
5	☐	250.000	257.952	1957977.41	0.1267	A	2.0
6	☐	500.000	500.867	3858839.71	0.2460	A	5.7
7	☐	1000.000	997.099	7565846.35	0.4897	A	1.8
8	☐			7529.95	0.0005	P	6.2

$$y = 4.9107\text{E-}004 * x + 4.5806\text{E-}005$$

$$R = 1.0000$$

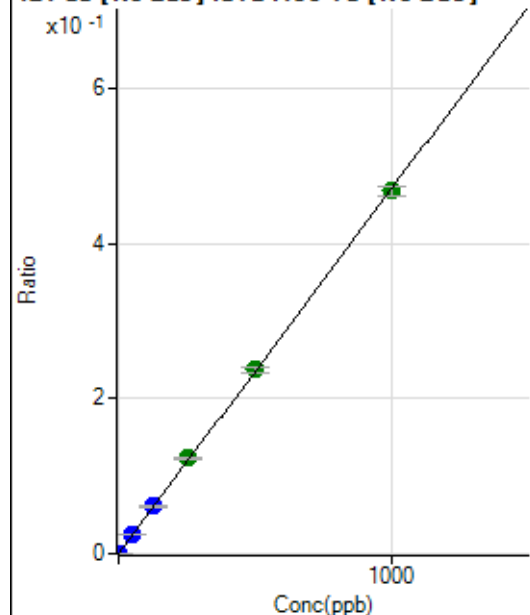
$$DL = 0.03901$$

$$BEC = 0.09328$$

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	69.45	0.0000	P	43.4
2	☐	2.000	1.856	14023.81	0.0009	P	6.3
3	☐	50.000	52.639	392991.17	0.0248	P	4.1
4	☐	125.000	129.809	970374.72	0.0611	P	3.1
5	☐	250.000	261.672	1902337.89	0.1231	A	2.4
6	☐	500.000	503.513	3717006.59	0.2369	A	3.7
7	☐	1000.000	994.593	7229311.88	0.4680	A	2.7
8	☐			4703.66	0.0003	P	6.0

$$y = 4.7050\text{E-}004 * x + 4.3886\text{E-}006$$

$$R = 0.9999$$

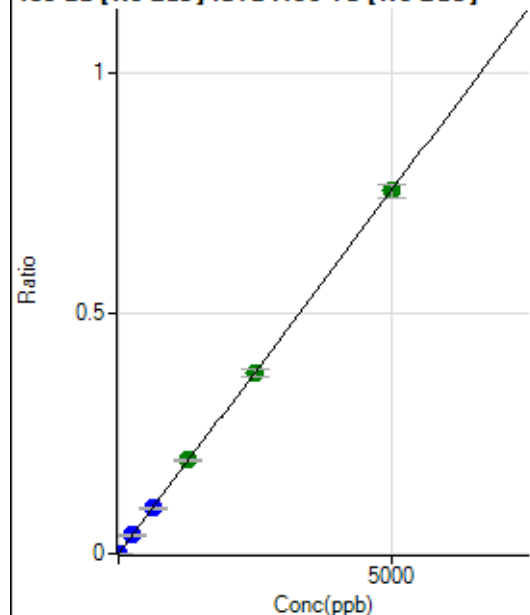
$$DL = 0.01213$$

$$BEC = 0.009328$$

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	27.78	0.0000	P	61.9
2	☐	10.000	9.272	22468.22	0.0014	P	4.9
3	☐	250.000	253.977	609998.58	0.0384	P	3.9
4	☐	625.000	625.594	1504575.61	0.0947	P	2.5
5	☐	1250.000	1292.995	3024341.91	0.1957	A	1.7
6	☐	2500.000	2492.261	5918765.67	0.3773	A	4.5
7	☐	5000.000	4992.849	11674630.12	0.7558	A	3.9
8	☐			6287.64	0.0005	P	3.1

$$y = 1.5138\text{E-}004 * x + 1.7472\text{E-}006$$

$$R = 1.0000$$

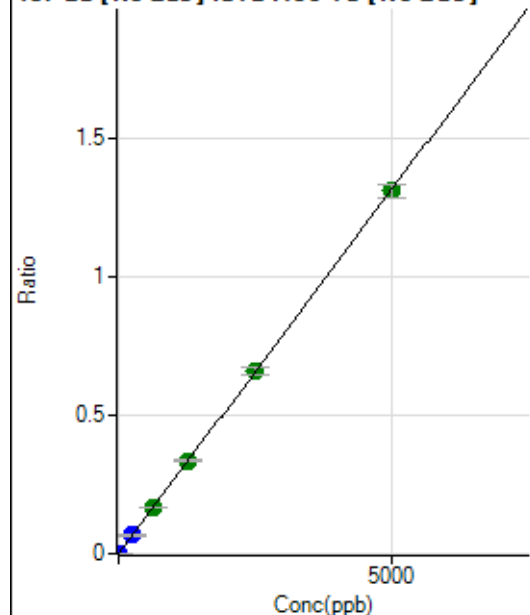
$$DL = 0.02142$$

$$BEC = 0.01154$$

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	47.22	0.0000	P	43.0
2	☐	10.000	9.122	38394.09	0.0024	P	4.6
3	☐	250.000	253.315	1056799.56	0.0666	P	3.8
4	☐	625.000	634.807	2651868.42	0.1669	A	2.6
5	☐	1250.000	1280.704	5203069.82	0.3368	A	2.6
6	☐	2500.000	2513.376	10367767.16	0.6609	A	4.5
7	☐	5000.000	4984.246	20244102.88	1.3106	A	3.6
8	☐			10701.48	0.0008	P	1.0

$$y = 2.6294\text{E-}004 * x + 2.9618\text{E-}006$$

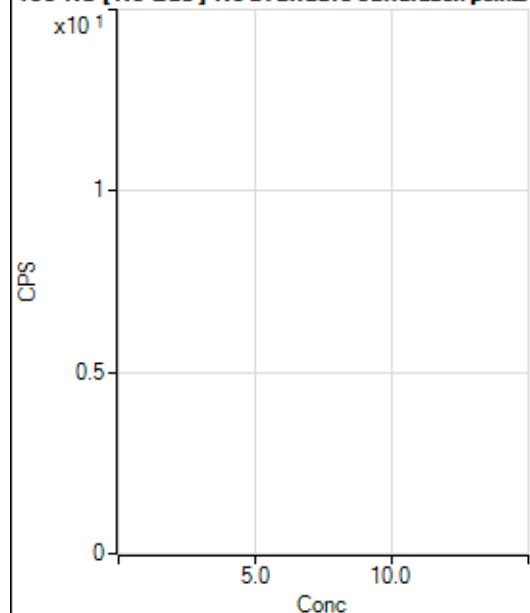
$$R = 1.0000$$

$$DL = 0.01454$$

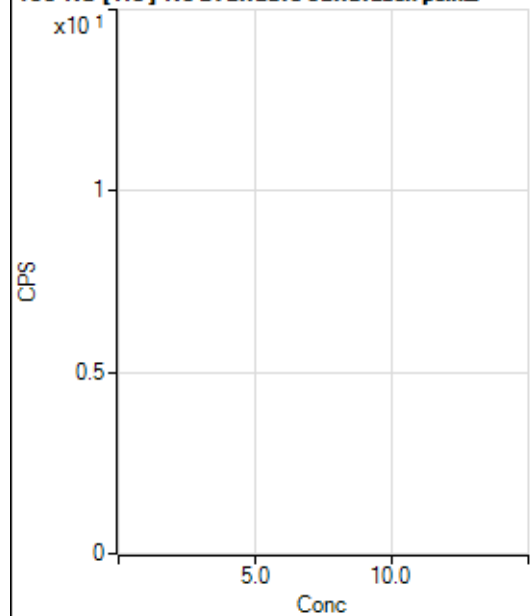
$$BEC = 0.01126$$

Weight: <None>

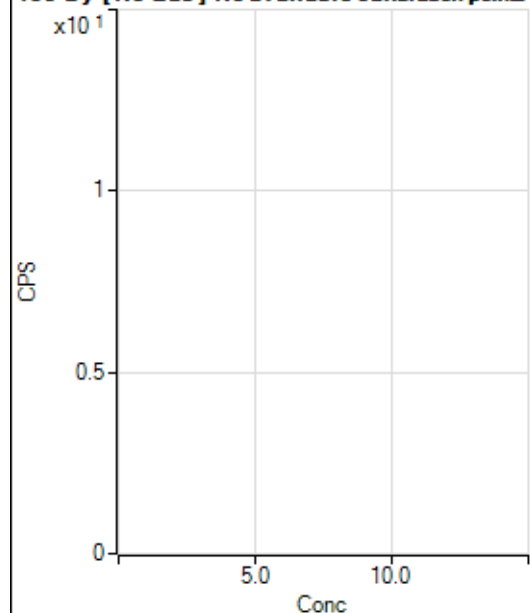
Min Conc: 0

150 Nd [No Gas] No available calibration points

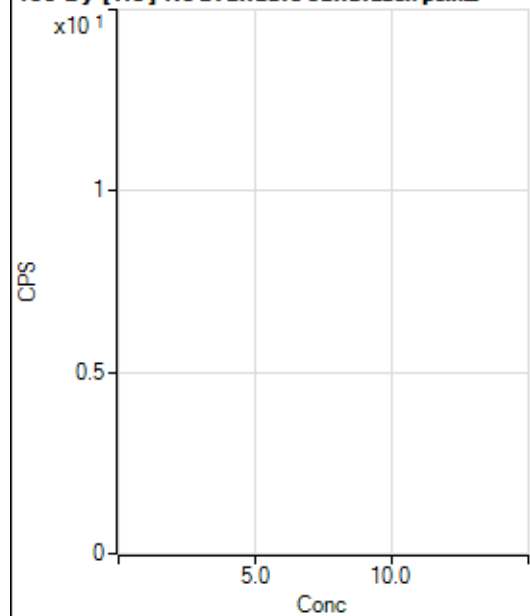
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.44		P	173.
2	☐			11.11		P	124.
3	☐			135.56		P	19.9
4	☐			308.90		P	6.9
5	☐			644.48		P	10.9
6	☐			1142.29		P	6.4
7	☐			2384.69		P	4.8
8	☐			60.00		P	11.1

150 Nd [He] No available calibration points

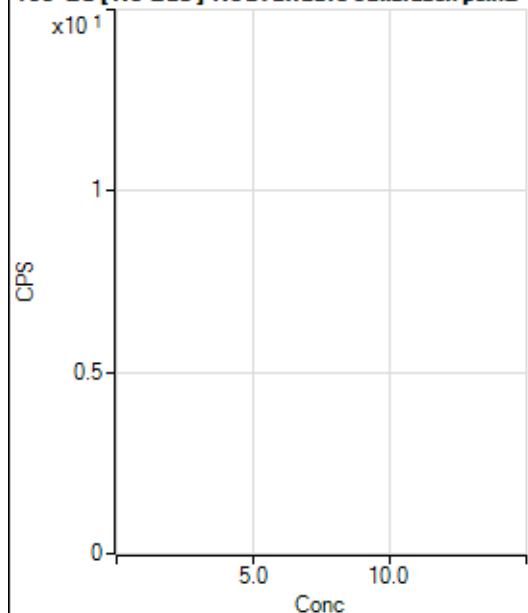
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	173.
2	☐			2.22		P	173.
3	☐			23.33		P	24.7
4	☐			62.22		P	40.6
5	☐			92.22		P	10.4
6	☐			176.67		P	14.7
7	☐			371.12		P	16.0
8	☐			37.78		P	50.2

156 Dy [No Gas] No available calibration points

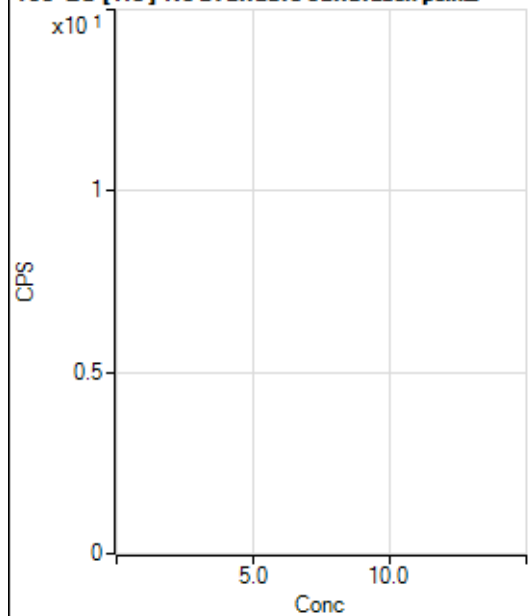
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.33		P	100.
2	☐			11.11		P	43.3
3	☐			38.89		P	32.7
4	☐			113.89		P	22.4
5	☐			216.68		P	17.6
6	☐			416.69		P	14.0
7	☐			675.03		P	9.3
8	☐			2097.44		P	3.3

156 Dy [He] No available calibration points

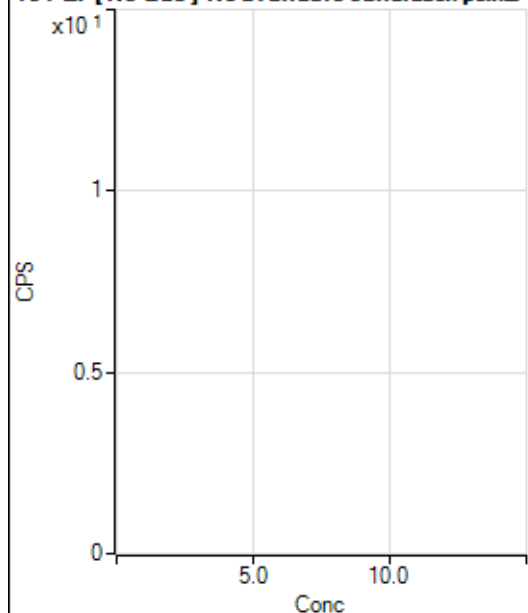
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.56		P	91.6
2	☐			8.89		P	57.3
3	☐			35.55		P	37.9
4	☐			84.44		P	6.0
5	☐			191.12		P	5.6
6	☐			320.01		P	1.0
7	☐			633.35		P	3.7
8	☐			1406.75		P	1.5

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

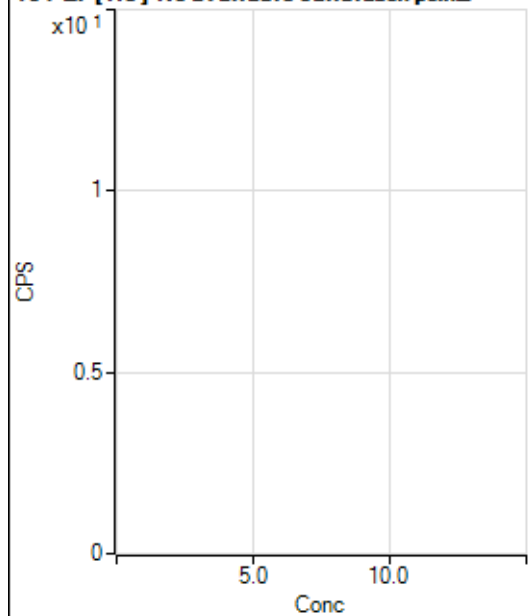
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			38.89		P	53.9
2	☐			69.45		P	30.2
3	☐			91.67		P	32.8
4	☐			133.34		P	10.8
5	☐			175.01		P	29.7
6	☐			336.13		P	16.9
7	☐			602.80		P	7.1
8	☐			2030.76		P	10.4

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			445.57		P	6.4
2	☐			451.12		P	8.1
3	☐			484.46		P	12.9
4	☐			473.34		P	7.4
5	☐			551.13		P	12.4
6	☐			583.35		P	7.7
7	☐			718.92		P	9.8
8	☐			1930.15		P	2.2

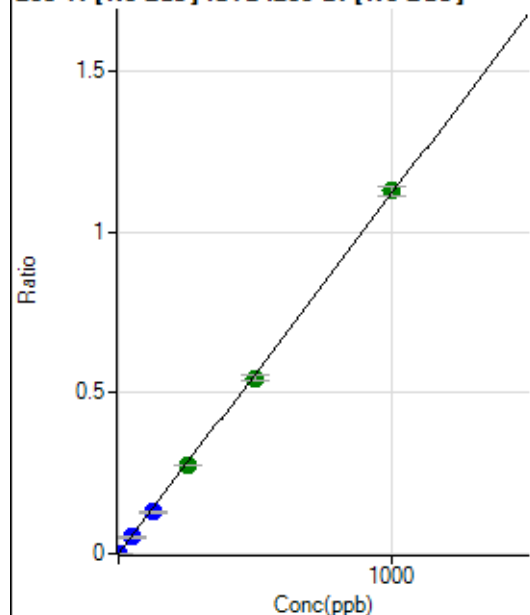
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			52.78		P	24.1
2	☐			41.67		P	20.0
3	☐			47.22		P	53.9
4	☐			52.78		P	39.7
5	☐			91.67		P	27.3
6	☐			116.67		P	18.9
7	☐			113.89		P	8.4
8	☐			125.01		P	43.7

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			31.11		P	27.0
2	☐			30.00		P	50.9
3	☐			25.56		P	30.1
4	☐			48.89		P	19.7
5	☐			41.11		P	61.9
6	☐			47.78		P	14.5
7	☐			86.67		P	21.4
8	☐			85.56		P	29.8

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	61.11	0.0000	P	8.8
2	☐	1.000	0.843	9965.02	0.0009	P	7.8
3	☐	50.000	46.127	531353.29	0.0516	P	3.1
4	☐	125.000	115.333	1321840.15	0.1290	P	3.8
5	☐	250.000	244.372	2730826.65	0.2734	A	0.7
6	☐	500.000	488.842	5358295.39	0.5469	A	3.0
7	☐	1000.000	1008.388	10507824.45	1.1281	A	2.9
8	☐			1700.16	0.0002	P	15.9

$$y = 0.0011 * x + 5.8595E-006$$

$$R = 0.9999$$

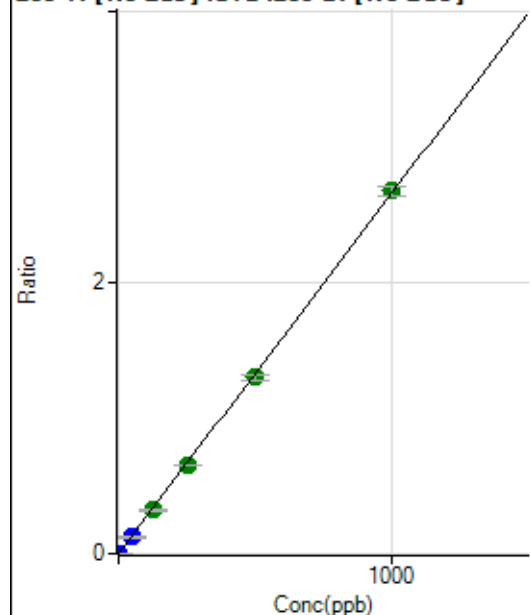
$$DL = 0.001377$$

$$BEC = 0.005238$$

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	127.78	0.0000	P	13.7
2	☐	1.000	0.835	23398.50	0.0022	P	7.0
3	☐	50.000	45.833	1252092.66	0.1216	P	3.2
4	☐	125.000	121.790	3310310.16	0.3231	A	3.9
5	☐	250.000	244.574	6481633.48	0.6489	A	0.6
6	☐	500.000	489.077	12713759.57	1.2975	A	2.8
7	☐	1000.000	1007.428	24897287.01	2.6727	A	2.8
8	☐			3831.22	0.0005	P	20.1

$$y = 0.0027 * x + 1.2247E-005$$

$$R = 0.9999$$

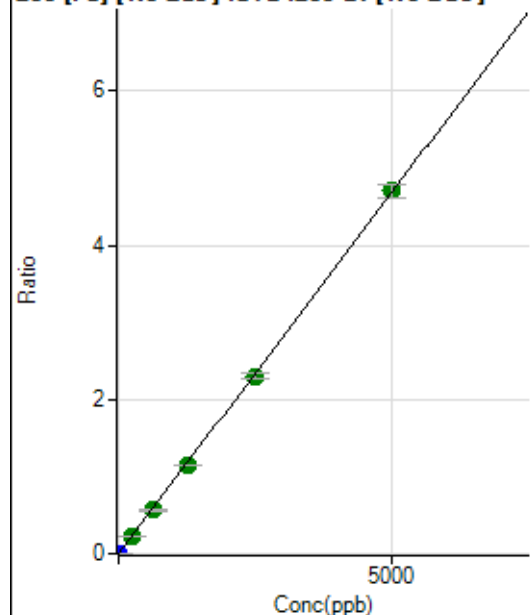
$$DL = 0.001896$$

$$BEC = 0.004616$$

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	211.12	0.0000	P	18.9
2	☐	1.000	0.798	8059.91	0.0008	P	5.2
3	☐	250.000	244.942	2360035.38	0.2292	A	4.0
4	☐	625.000	607.238	5821504.18	0.5682	A	4.0
5	☐	1250.000	1233.714	11532331.85	1.1545	A	0.8
6	☐	2500.000	2462.113	22574953.51	2.3039	A	3.0
7	☐	5000.000	5025.488	43797988.48	4.7026	A	3.9
8	☐			8967.93	0.0012	P	10.3

$$y = 9.3575E-004 * x + 2.0210E-005$$

$$R = 0.9999$$

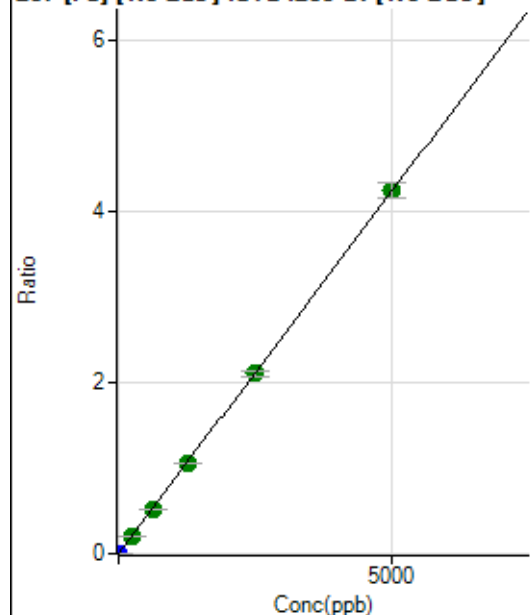
$$DL = 0.01226$$

$$BEC = 0.0216$$

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	181.49	0.0000	P	27.5
2	☐	1.000	0.800	7279.87	0.0007	P	8.8
3	☐	250.000	245.475	2136118.39	0.2075	A	2.4
4	☐	625.000	611.013	5289852.32	0.5164	A	4.0
5	☐	1250.000	1240.228	10469281.14	1.0481	A	0.4
6	☐	2500.000	2488.249	20602824.54	2.1027	A	3.1
7	☐	5000.000	5010.293	39429930.05	4.2339	A	4.4
8	☐			7605.99	0.0010	P	14.4

$$y = 8.4505E-004 * x + 1.7379E-005$$

$$R = 1.0000$$

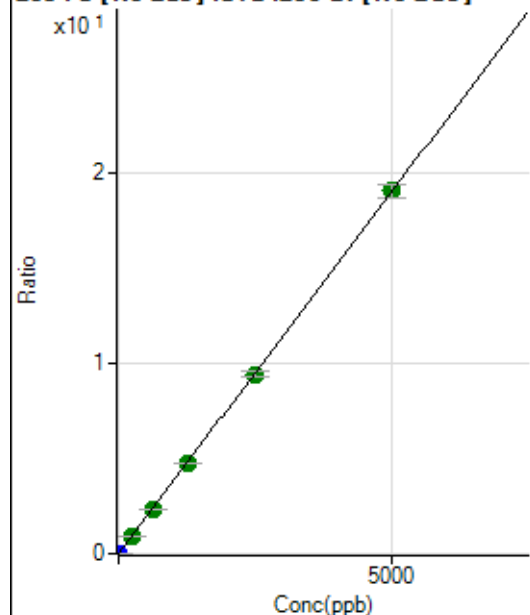
$$DL = 0.017$$

$$BEC = 0.02057$$

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	933.36	0.0001	P	4.9
2	☐	1.000	0.793	32567.60	0.0031	P	6.1
3	☐	250.000	245.512	9599723.51	0.9323	A	3.1
4	☐	625.000	611.500	23788595.44	2.3220	A	4.0
5	☐	1250.000	1239.513	47015832.77	4.7067	A	0.3
6	☐	2500.000	2475.385	92095483.77	9.3995	A	3.4
7	☐	5000.000	5016.841	177418404.8	19.0498	A	3.9
8	☐			35441.14	0.0048	P	12.5

$$y = 0.0038 * x + 8.9411E-005$$

$$R = 1.0000$$

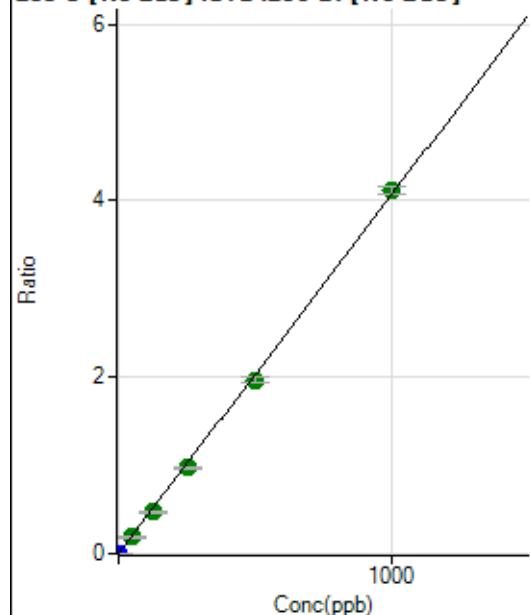
$$DL = 0.003453$$

$$BEC = 0.02355$$

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	28.12	0.0000	P	60.4
2	☐	1.000	0.787	33618.28	0.0032	P	6.4
3	☐	50.000	46.163	1931650.24	0.1876	A	3.4
4	☐	125.000	117.394	4887494.08	0.4771	A	4.5
5	☐	250.000	240.516	9764415.93	0.9775	A	1.7
6	☐	500.000	484.458	19290207.08	1.9689	A	3.9
7	☐	1000.000	1011.284	38288379.32	4.1099	A	2.1
8	☐			4104.10	0.0006	P	28.0

$$y = 0.0041 * x + 2.6823E-006$$

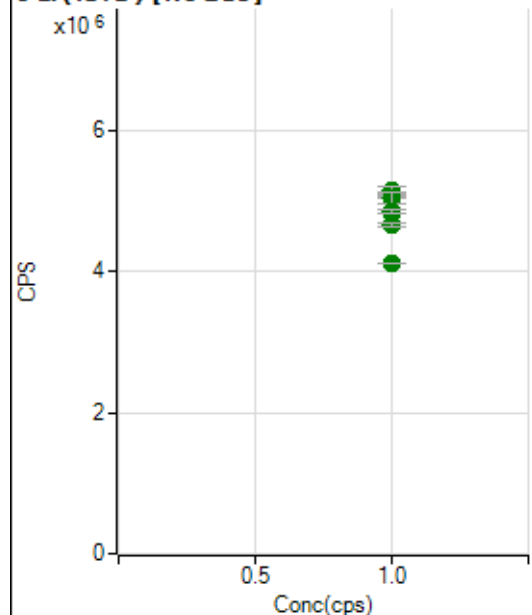
$$R = 0.9998$$

$$DL = 0.001196$$

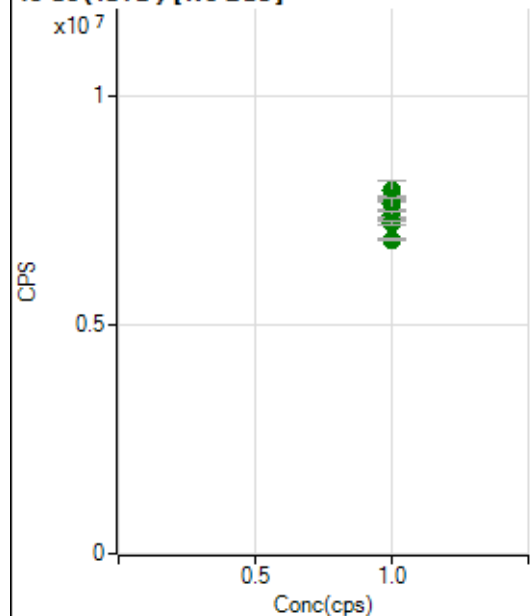
$$BEC = 0.00066$$

Weight: <None>

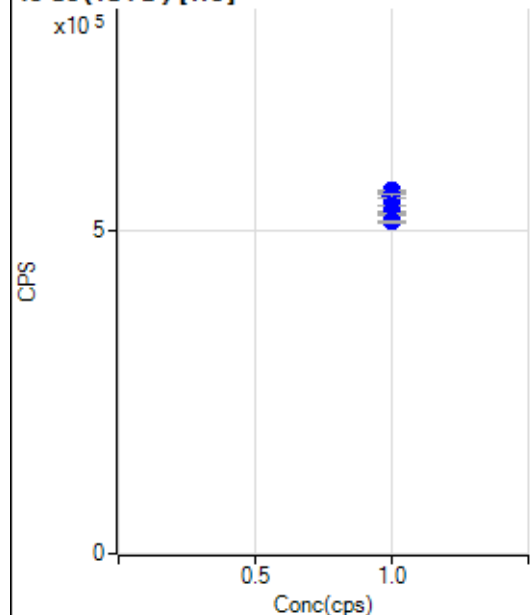
Min Conc: 0

6 Li (ISTD) [No Gas]

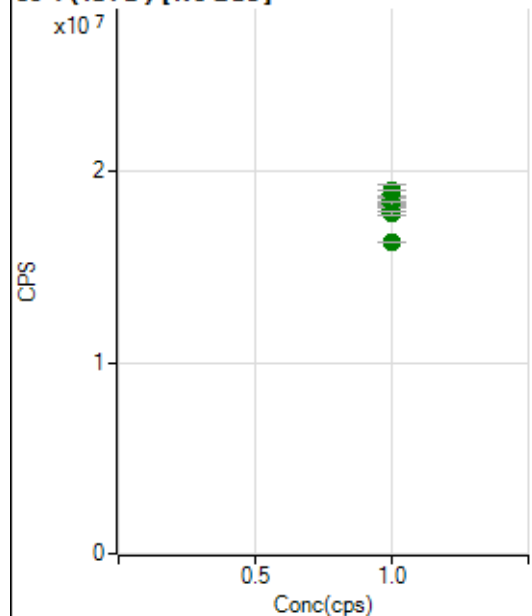
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5084767.88		A	1.6
2	☐	1.000		5139323.57		A	2.9
3	☐	1.000		5143919.92		A	2.2
4	☐	1.000		5042522.63		A	3.3
5	☐	1.000		4823749.86		A	0.4
6	☐	1.000		4851909.79		A	1.1
7	☐	1.000		4653982.95		A	1.1
8	☐	1.000		4115483.03		A	0.2

45 Sc (ISTD) [No Gas]

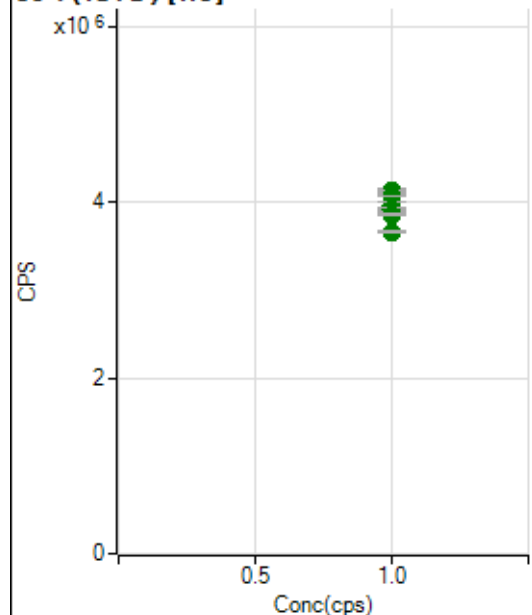
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7735657.87		A	2.0
2	☐	1.000		7917237.24		A	5.2
3	☐	1.000		7762176.97		A	1.6
4	☐	1.000		7641086.62		A	2.9
5	☐	1.000		7324015.31		A	1.1
6	☐	1.000		7405128.22		A	1.6
7	☐	1.000		7226968.36		A	1.1
8	☐	1.000		6848823.79		A	0.4

45 Sc (ISTD) [He]

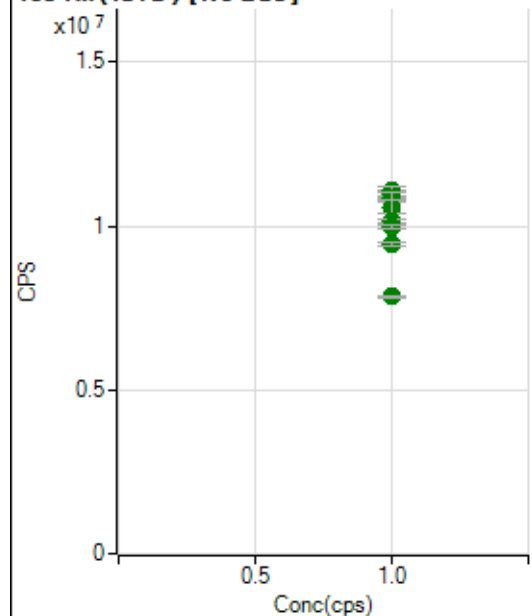
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		562114.55		P	0.3
2	☐	1.000		562779.73		P	0.2
3	☐	1.000		554971.44		P	0.7
4	☐	1.000		540380.64		P	0.2
5	☐	1.000		529773.86		P	0.5
6	☐	1.000		530373.98		P	0.2
7	☐	1.000		525600.57		P	0.5
8	☐	1.000		514920.76		P	0.3

89 Y (ISTD) [No Gas]

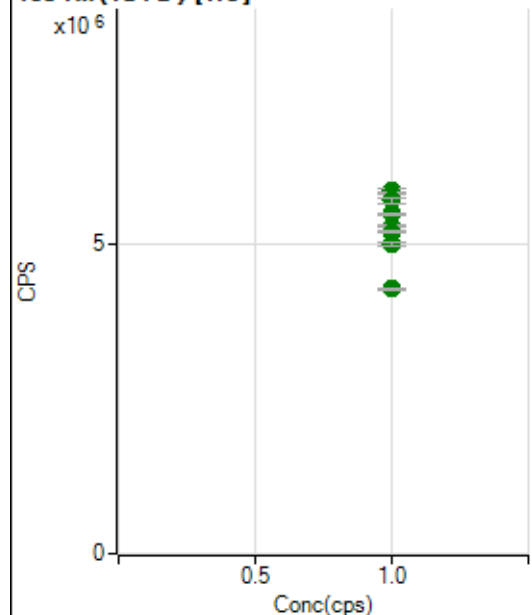
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		18821631.53		A	1.6
2	☐	1.000		18979597.91		A	3.7
3	☐	1.000		18803938.47		A	2.1
4	☐	1.000		18478371.11		A	1.6
5	☐	1.000		18054252.79		A	1.6
6	☐	1.000		18266521.26		A	1.5
7	☐	1.000		17804951.96		A	0.8
8	☐	1.000		16269042.53		A	0.2

89 Y(ISTD) [He]

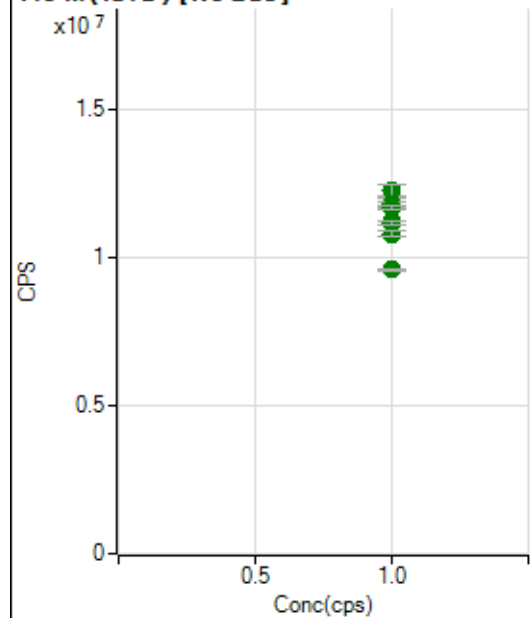
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4129535.60		A	1.5
2	☐	1.000		4130068.17		A	0.7
3	☐	1.000		4062670.25		A	0.0
4	☐	1.000		3965722.23		A	1.6
5	☐	1.000		3892265.50		A	1.1
6	☐	1.000		3919027.93		A	1.6
7	☐	1.000		3860721.05		A	0.5
8	☐	1.000		3660581.40		A	0.4

103 Rh(ISTD) [No Gas]

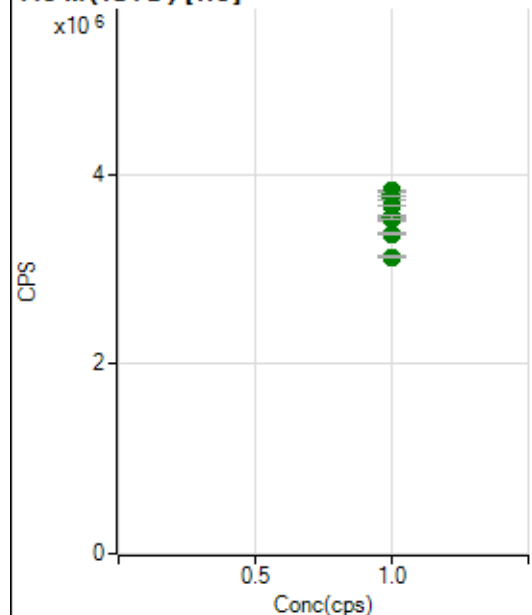
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10960349.70		A	1.9
2	☐	1.000		11067409.28		A	2.5
3	☐	1.000		10871484.21		A	2.6
4	☐	1.000		10588173.24		A	3.3
5	☐	1.000		10123499.92		A	1.2
6	☐	1.000		9966138.95		A	1.4
7	☐	1.000		9463053.47		A	1.1
8	☐	1.000		7836661.34		A	0.2

103 Rh (ISTD) [He]

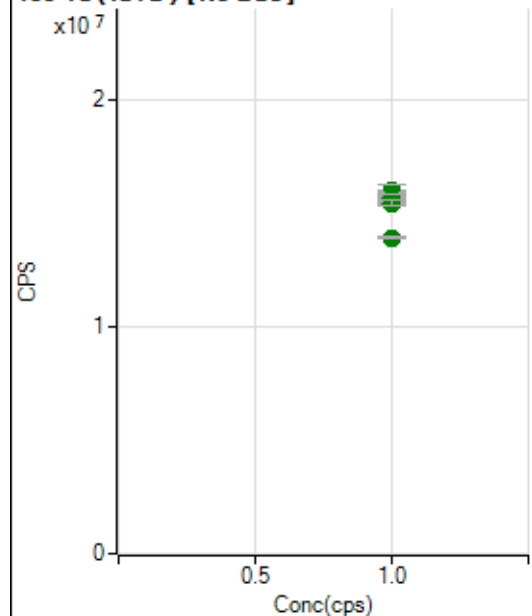
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5851883.18		A	1.0
2	☐	1.000		5807558.53		A	0.6
3	☐	1.000		5700668.67		A	1.5
4	☐	1.000		5482940.99		A	0.6
5	☐	1.000		5276331.17		A	0.6
6	☐	1.000		5185728.67		A	0.8
7	☐	1.000		5001863.05		A	1.1
8	☐	1.000		4266043.34		A	1.3

115 In (ISTD) [No Gas]

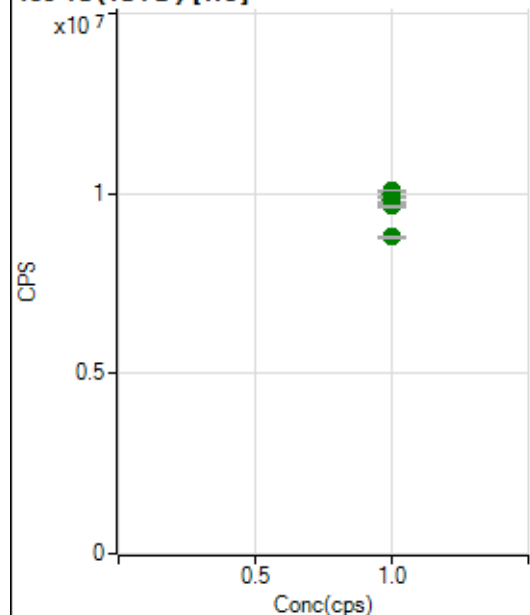
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11992777.71		A	1.5
2	☐	1.000		12248120.14		A	3.4
3	☐	1.000		11787930.98		A	1.3
4	☐	1.000		11676125.94		A	1.2
5	☐	1.000		11236392.88		A	0.4
6	☐	1.000		11170608.04		A	0.9
7	☐	1.000		10793002.89		A	2.0
8	☐	1.000		9592164.01		A	0.9

115 In (ISTD) [He]

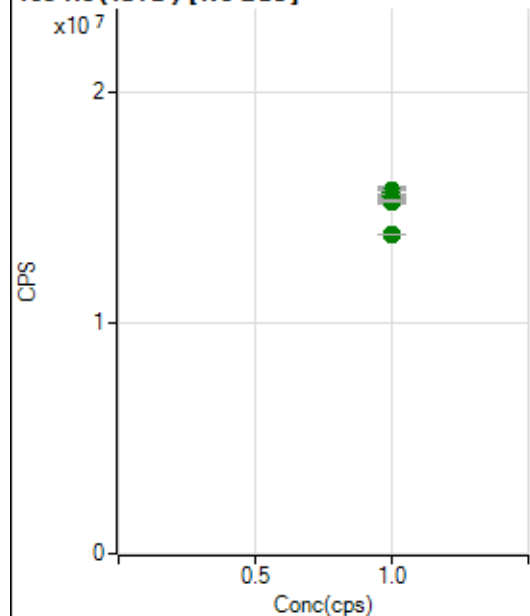
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3825511.68		A	0.7
2	☐	1.000		3795476.44		A	1.1
3	☐	1.000		3748116.76		A	0.8
4	☐	1.000		3673013.31		A	0.1
5	☐	1.000		3531891.57		A	0.9
6	☐	1.000		3541789.45		A	1.0
7	☐	1.000		3374453.22		A	0.4
8	☐	1.000		3132038.73		A	0.6

159 Tb (ISTD) [No Gas]

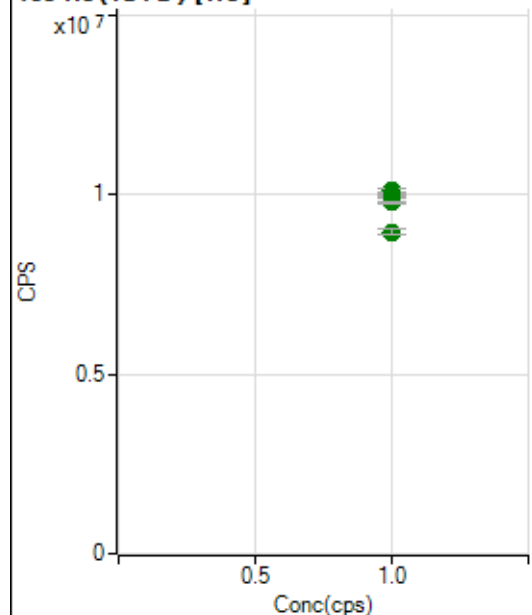
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		15867447.26		A	1.7
2	☐	1.000		16004018.79		A	3.2
3	☐	1.000		15873712.82		A	2.0
4	☐	1.000		15888740.32		A	0.6
5	☐	1.000		15452187.82		A	0.5
6	☐	1.000		15697634.49		A	2.0
7	☐	1.000		15453483.38		A	1.8
8	☐	1.000		13944238.27		A	1.1

159 Tb (ISTD) [He]

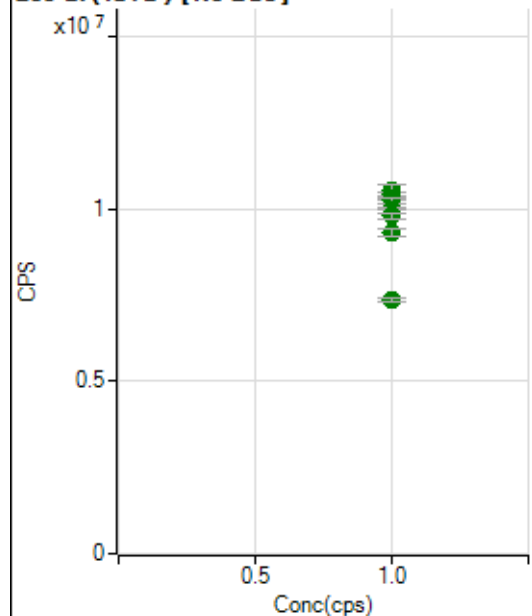
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10064183.88		A	0.2
2	☐	1.000		10032550.89		A	0.4
3	☐	1.000		9984344.02		A	1.5
4	☐	1.000		9813542.28		A	1.6
5	☐	1.000		9748611.38		A	0.7
6	☐	1.000		9750551.80		A	0.4
7	☐	1.000		9629753.12		A	0.6
8	☐	1.000		8790490.01		A	0.5

165 Ho (ISTD) [No Gas]

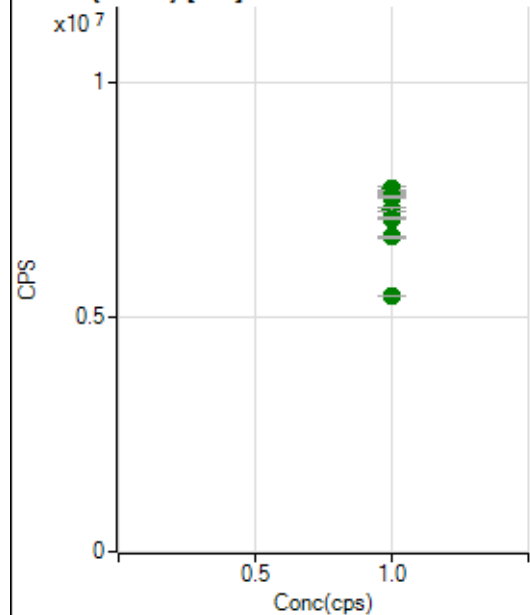
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		15692356.29		A	2.0
2	☐	1.000		15657871.43		A	2.8
3	☐	1.000		15674259.21		A	2.1
4	☐	1.000		15656409.77		A	1.2
5	☐	1.000		15232143.80		A	0.8
6	☐	1.000		15504210.88		A	1.1
7	☐	1.000		15270898.94		A	0.8
8	☐	1.000		13797157.29		A	0.0

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10090242.77		A	1.0
2	☐	1.000		9993923.74		A	1.4
3	☐	1.000		9983636.03		A	0.3
4	☐	1.000		9943025.54		A	1.0
5	☐	1.000		9867466.24		A	1.6
6	☐	1.000		9888664.16		A	0.3
7	☐	1.000		9767061.24		A	0.7
8	☐	1.000		8943730.42		A	1.8

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10435157.62		A	1.1
2	☐	1.000		10520354.77		A	3.7
3	☐	1.000		10298637.69		A	1.1
4	☐	1.000		10248786.10		A	1.5
5	☐	1.000		9988989.85		A	0.7
6	☐	1.000		9801189.23		A	1.5
7	☐	1.000		9319079.31		A	2.3
8	☐	1.000		7357139.12		A	1.3

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7746531.48		A	1.4
2	☐	1.000		7709895.51		A	0.7
3	☐	1.000		7606050.58		A	0.8
4	☐	1.000		7568588.85		A	0.8
5	☐	1.000		7311997.81		A	1.4
6	☐	1.000		7116254.06		A	0.5
7	☐	1.000		6720055.87		A	0.4
8	☐	1.000		5459098.46		A	0.4

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7120822-MS.b

Acq. Date-Time 2022-12-08 12:35:51

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		15368	153683.42			0.169	5.000
24		377523	3775225.90			0.384	5.000
25		53371	533708.64			0.458	5.000
26		60803	608025.45			0.590	5.000
59		96431	964309.81			0.610	5.000
113		10913	109133.21			0.427	5.000
115		140215	1402146.22			0.489	5.000
206		35885	358850.97			0.614	5.000
207		33248	332482.38			0.790	5.000
208		77516	775159.57			0.591	5.000
220		0	1.40			68.698	

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

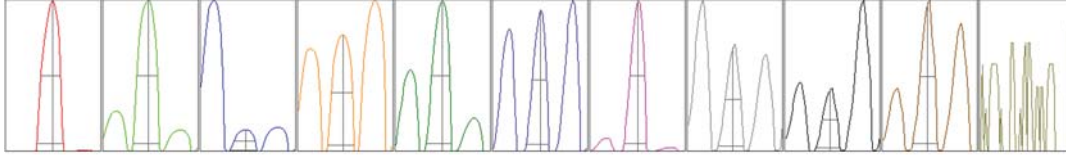
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	15349	15337	15396	15367	15393
24	376396	377755	376046	379735	377681
25	53079	53160	53456	53663	53497
26	60495	60376	60856	61096	61189
59	95600	96768	96410	96215	97161
113	10854	10871	10948	10946	10947
115	140032	139485	139760	141192	140605
206	35569	35834	36084	35832	36108
207	32829	33224	33516	33414	33258
208	77122	77127	77979	78042	77311

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	26575.95	9.00	8.90 - 9.10	
24	610196.56	23.95	23.90 - 24.10	
25	83967.64	24.95	24.90 - 25.10	
26	95072.47	25.95	25.90 - 26.10	
59	176389.52	59.00	58.90 - 59.10	
113	24280.18	113.05	112.90 - 113.10	
115	304555.92	115.05	114.90 - 115.10	
206	73321.34	205.95	205.90 - 206.10	
207	67638.78	206.95	206.90 - 207.10	
208	162752.69	207.95	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.61	0.827	0.900	
24	0.66	0.831	0.900	
25	0.67	0.829	0.900	
26	0.68	0.834	0.900	
59	0.56	0.800	0.900	
113	0.45	0.717	0.900	
115	0.47	0.714	0.900	
206	0.49	0.809	0.900	
207	0.49	0.748	0.900	
208	0.48	0.776	0.900	
220				

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.87 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	8.6 V	Deflect	15.2 V
Extract 2	-100.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-65 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	180 V		

QP Parameters

Mass Gain	123	Axis Gain	1.0002	QP Bias	-3.0 V
Mass Offset	124	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	-0.4 mm	Torch V	0.8 mm
---------	---------	---------	--------

EM

Discriminator	3.1 mV	Analog HV	2240 V	Pulse HV	1473 V
---------------	--------	-----------	--------	----------	--------

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		28600	286000.67			0.347	
89		97267	972667.47			0.945	
205		35584	355839.91			0.346	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	28702	28625	28677	28469	28527
89	97478	96265	97593	96471	98527
205	35581	35731	35455	35682	35470

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.87 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	9.2 V	Deflect	3.0 V
-----------	-------	------------	-------	---------	-------

US EPA Tune Check Report

Extract 2	-115.0 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	123	Axis Gain	1.0002	QP Bias	-13.0 V
Mass Offset	124	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	-0.4 mm	Torch V	0.8 mm
---------	---------	---------	--------

EM

Discriminator	3.1 mV	Analog HV	2240 V	Pulse HV	1473 V
---------------	--------	-----------	--------	----------	--------