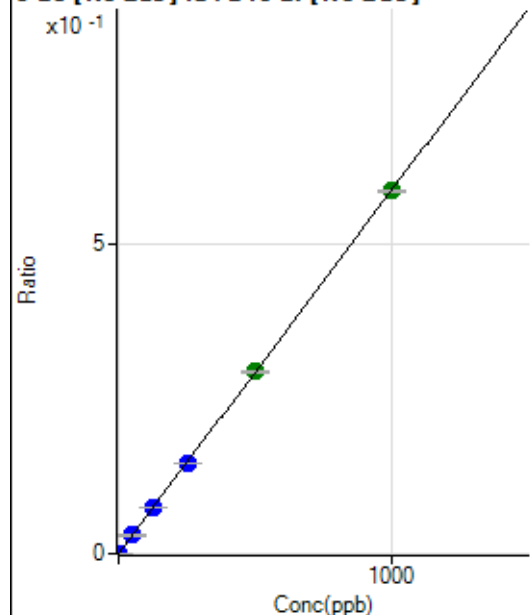


Batch Folder: D:\Agilent\ICPMH\1\DATA\P7100422MS.b\
Analysis File: P7100422MS.batch.bin
DA Date-Time: 2022-10-04 16:29:25
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2022-10-04 13:04:27
2	005CALS.d	S02	2022-10-04 13:07:18
3	006CALS.d	S03	2022-10-04 13:10:11
4	007CALS.d	S04	2022-10-04 13:12:54
5	008CALS.d	S05	2022-10-04 13:15:41
6	009CALS.d	S06	2022-10-04 13:18:24
7	010CALS.d	S07	2022-10-04 13:21:11
8	011CALS.d	S08	2022-10-04 13:23:55

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	165.56	0.0000	P	3.6
2	☐	1.000	1.011	2638.03	0.0006	P	0.9
3	☐	50.000	50.309	121929.32	0.0296	P	1.3
4	☐	125.000	127.473	305883.38	0.0750	P	2.2
5	☐	250.000	248.990	586476.31	0.1464	P	1.5
6	☐	500.000	502.048	1166648.72	0.2952	A	1.4
7	☐	1000.000	998.904	2238346.98	0.5873	A	0.5
8	☐			1113.38	0.0003	P	3.5

$$y = 5.8788\text{E-}004 * x + 4.0082\text{E-}005$$

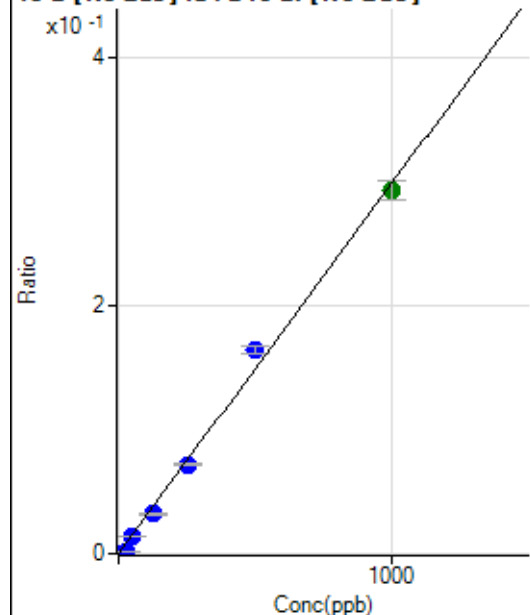
$$R = 1.0000$$

$$DL = 0.00743$$

$$BEC = 0.06818$$

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	536.13	0.0001	P	6.5
2	☐	25.000	6.012	7991.17	0.0019	P	3.2
3	☐	50.000	47.328	58644.94	0.0142	P	5.4
4	☐	125.000	107.857	131736.47	0.0323	P	5.2
5	☐	250.000	240.996	288315.70	0.0720	P	3.0
6	☐	500.000	548.674	647019.49	0.1637	P	3.9
7	☐	1000.000	980.665	1115151.92	0.2925	A	5.4
8	☐			26008.65	0.0067	P	10.2

$$y = 2.9814\text{E-}004 * x + 1.2985\text{E-}004$$

$$R = 0.9979$$

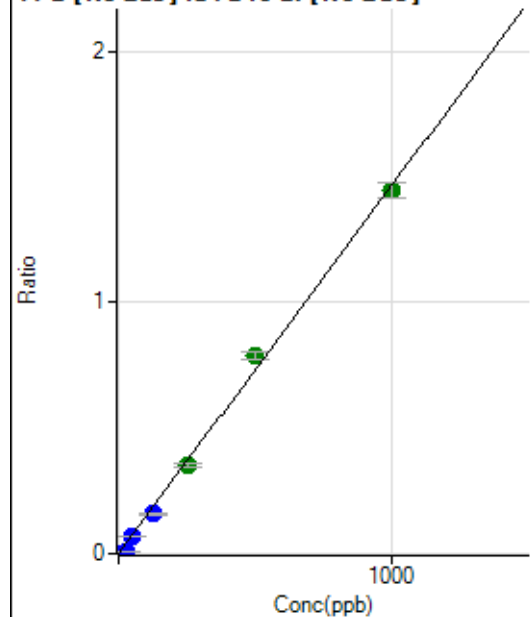
$$DL = 0.08436$$

$$BEC = 0.4355$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	2722.53	0.0007	P	2.6
2	☐	25.000	5.946	38938.41	0.0094	P	4.7
3	☐	50.000	47.026	286262.12	0.0695	P	4.3
4	☐	125.000	108.297	649673.53	0.1592	P	4.1
5	☐	250.000	238.262	1399994.32	0.3495	A	4.3
6	☐	500.000	538.776	3120644.51	0.7896	A	3.6
7	☐	1000.000	986.259	5507857.76	1.4448	A	4.1
8	☐			125943.90	0.0323	P	8.3

$$y = 0.0015 * x + 6.5916E-004$$

$$R = 0.9986$$

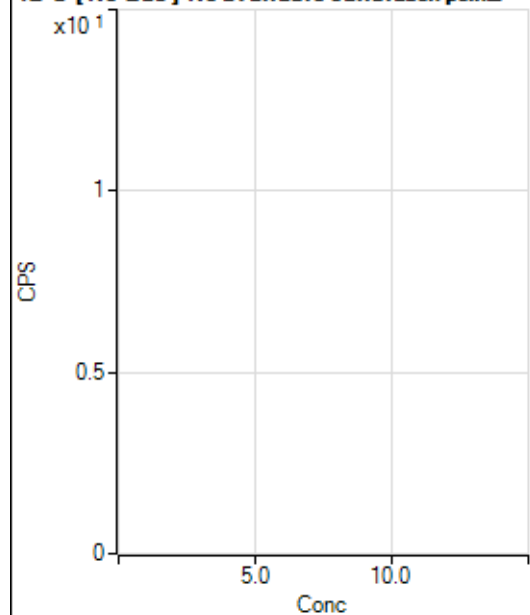
$$DL = 0.03507$$

$$BEC = 0.4502$$

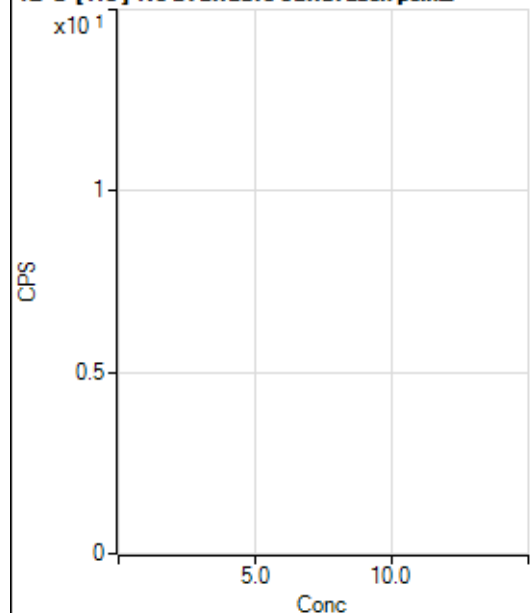
Weight: <None>

Min Conc: 0

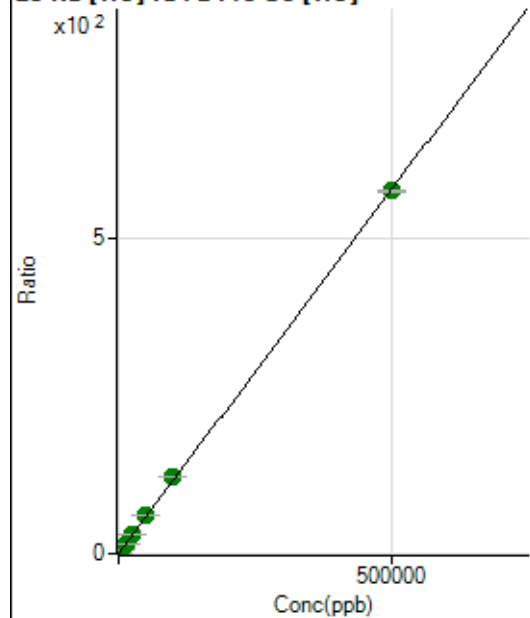
12 C [No Gas] No available calibration points



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

12 C [He] No available calibration points

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

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	32961.37	0.0397	P	0.6
2	☐	500.000	517.222	534926.33	0.6352	P	0.3
3	☐	5000.000	5444.600	5292677.43	6.3088	A	1.6
4	☐	12500.000	13690.568	12908149.02	15.8036	A	1.2
5	☐	25000.000	27127.087	25182673.71	31.2749	A	0.5
6	☐	50000.000	53511.371	50601734.92	61.6549	A	0.4
7	☐	100000.00	105952.15	99878192.97	122.0374	A	0.7
8	☐	500000.00	498317.85	470109829.03	573.8238	A	0.2

$$y = 0.0012 * x + 0.0397$$

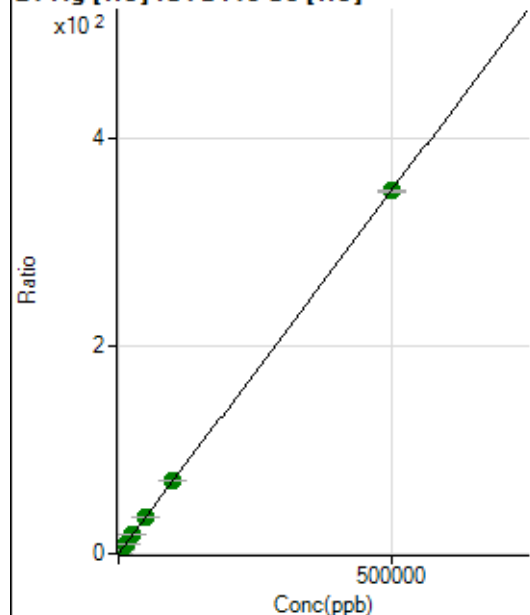
$$R = 0.9999$$

$$DL = 0.6263$$

$$BEC = 34.46$$

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	592.61	0.0007	P	7.5
2	☐	500.000	526.121	310691.86	0.3690	P	0.9
3	☐	5000.000	5185.017	3045190.98	3.6298	A	1.2
4	☐	12500.000	13078.478	7477353.29	9.1546	A	0.9
5	☐	25000.000	25970.234	14637009.70	18.1779	A	0.7
6	☐	50000.000	51055.365	29329576.35	35.7356	A	0.5
7	☐	100000.00	100238.72	57420166.10	70.1602	A	1.0
8	☐	500000.00	499781.86	286577580.48	349.8099	A	0.8

$$y = 6.9992\text{E-}004 * x + 7.1338\text{E-}004$$

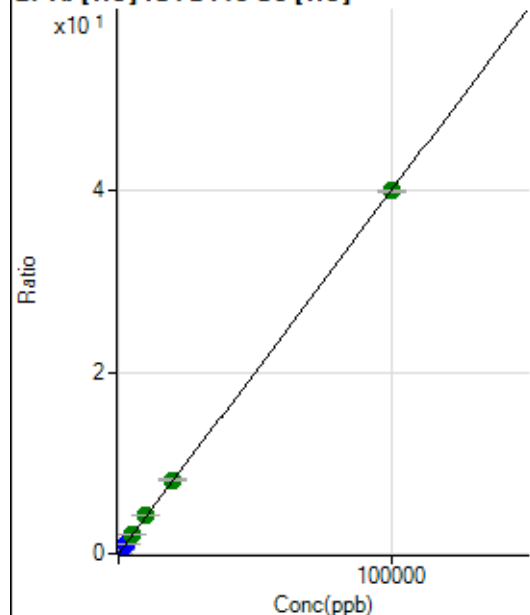
$$R = 1.0000$$

$$DL = 0.2287$$

$$BEC = 1.019$$

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	659.28	0.0008	P	15.9
2	☐	20.000	20.229	7479.72	0.0089	P	2.4
3	☐	1000.000	1087.815	365593.73	0.4358	P	0.9
4	☐	2500.000	2770.154	905337.93	1.1084	P	0.5
5	☐	5000.000	5397.967	1738578.45	2.1592	A	2.0
6	☐	10000.000	10411.527	3417480.78	4.1639	A	0.5
7	☐	20000.000	20301.200	6644162.71	8.1183	A	1.1
8	☐	100000.00	99871.077	32716681.52	39.9344	A	0.6

$$y = 3.9985\text{E-}004 * x + 7.9348\text{E-}004$$

$$R = 1.0000$$

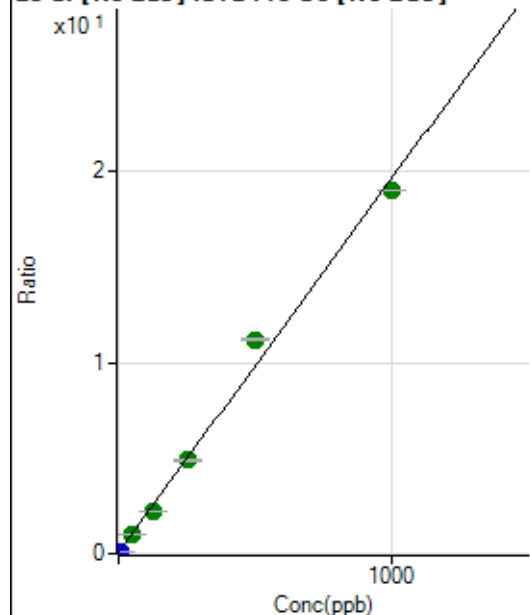
$$DL = 0.948$$

$$BEC = 1.984$$

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	595326.51	0.0626	P	0.3
2	☐	10.000	0.403	680445.22	0.0705	P	0.6
3	☐	50.000	49.139	9995523.40	1.0247	A	1.6
4	☐	125.000	109.184	21085887.45	2.2003	A	2.2
5	☐	250.000	248.219	45699469.08	4.9226	A	2.0
6	☐	500.000	569.780	105171056.52	11.2186	A	0.6
7	☐	1000.000	967.671	179199509.56	19.0091	A	0.1
8	☐			3493039.66	0.3669	A	21.8

$$y = 0.0196 * x + 0.0626$$

$$R = 0.9961$$

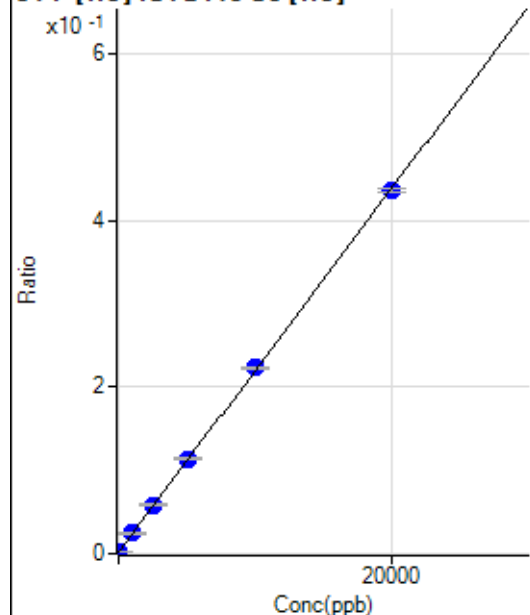
$$DL = 0.02772$$

$$BEC = 3.196$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-9.051	1255.64	0.0015	P	0.6
2	☐	0.000	9.051	1605.69	0.0019	P	2.3
3	☐	1000.000	1033.114	20363.98	0.0243	P	0.8
4	☐	2500.000	2611.930	47986.94	0.0588	P	1.1
5	☐	5000.000	5139.030	91747.21	0.1139	P	1.1
6	☐	10000.000	10143.753	183220.75	0.2232	P	0.4
7	☐	20000.000	19877.719	356681.37	0.4358	P	0.9
8	☐			1402.89	0.0017	P	7.0

$$y = 2.1839E-005 * x + 0.0017$$

$$R = 0.9999$$

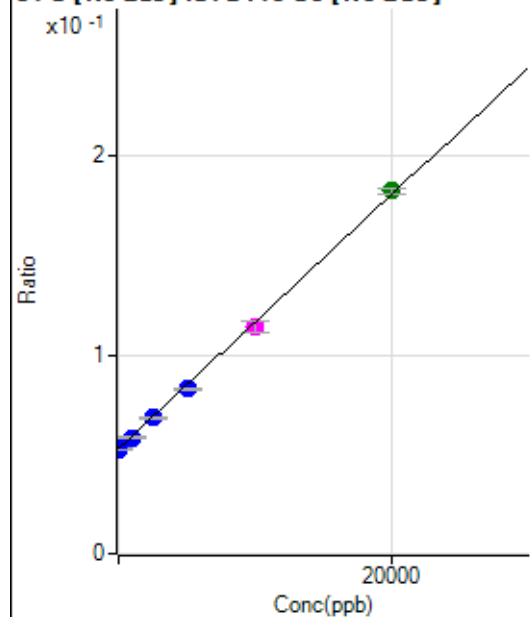
$$DL = 3.708$$

$$BEC = 78.26$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	79.696	508567.17	0.0535	P	1.6
2	☐	0.000	-79.696	506367.43	0.0524	P	0.9
3	☐	1000.000	877.342	571134.03	0.0586	P	0.6
4	☐	2500.000	2401.156	654487.77	0.0683	P	1.1
5	☐	5000.000	4684.535	769665.15	0.0829	P	1.5
6	☐	10000.000	9640.111	1075026.16	0.1146	M	5.2
7	☐	20000.000	20277.299	1722035.02	0.1827	A	1.6
8	☐			433195.65	0.0455	P	4.9

$$y = 6.3976E-006 * x + 0.0529$$

$$R = 0.9996$$

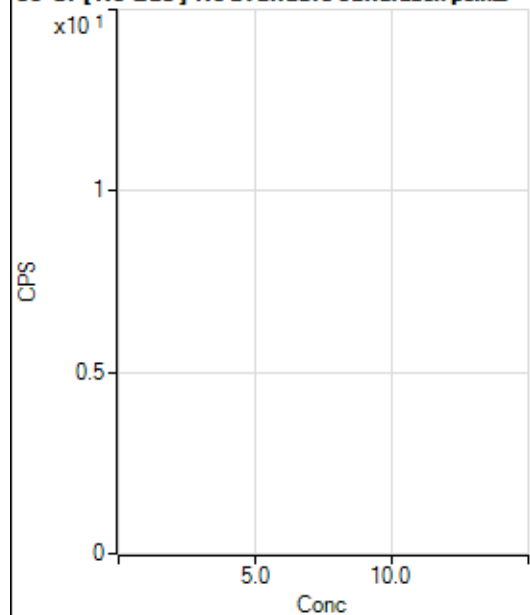
$$DL = 312.8$$

$$BEC = 8275$$

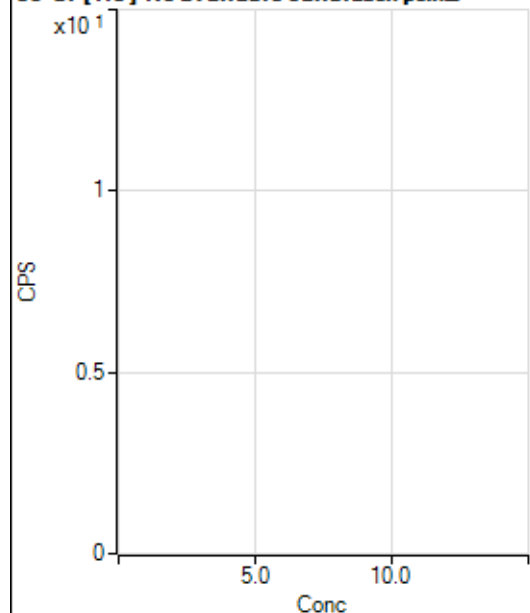
Weight: <None>

Min Conc: 0

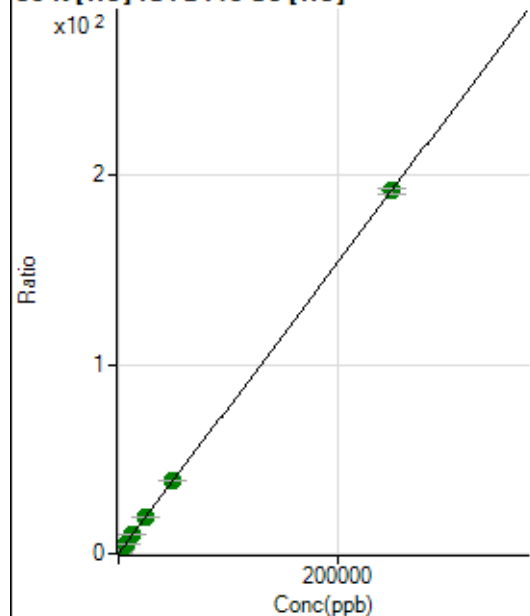
35 Cl [No Gas] No available calibration points



	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	116740.41	0.1405	P	0.8
2	☐	500.000	532.171	461961.02	0.5486	P	0.6
3	☐	2500.000	2557.441	1763198.02	2.1016	A	0.3
4	☐	6250.000	6390.678	4117422.88	5.0410	A	1.1
5	☐	12500.000	12672.800	7938006.43	9.8582	A	0.9
6	☐	25000.000	24902.092	15787356.43	19.2358	A	0.6
7	☐	50000.000	49829.039	31386641.33	38.3502	A	0.7
8	☐	250000.00	250031.18	157190096.57	191.8685	A	1.3

$$y = 7.6682\text{E-}004 * x + 0.1405$$

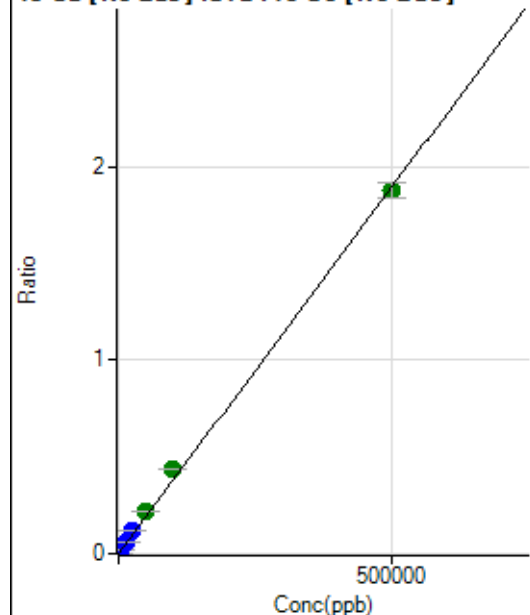
$$R = 1.0000$$

$$DL = 4.416$$

$$BEC = 183.2$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	266.68	0.0000	P	7.6
2	☐	500.000	518.007	19193.12	0.0020	P	1.0
3	☐	5000.000	6194.818	228818.95	0.0235	P	1.6
4	☐	12500.000	15631.326	566827.12	0.0591	P	1.5
5	☐	25000.000	31054.269	1090668.25	0.1175	P	1.5
6	☐	50000.000	58484.169	2074144.92	0.2212	A	0.2
7	☐	100000.00	116517.30	4154573.40	0.4407	A	0.4
8	☐	500000.00	495455.15	17858457.17	1.8740	A	4.2

$$y = 3.7823\text{E-}006 * x + 2.8018\text{E-}005$$

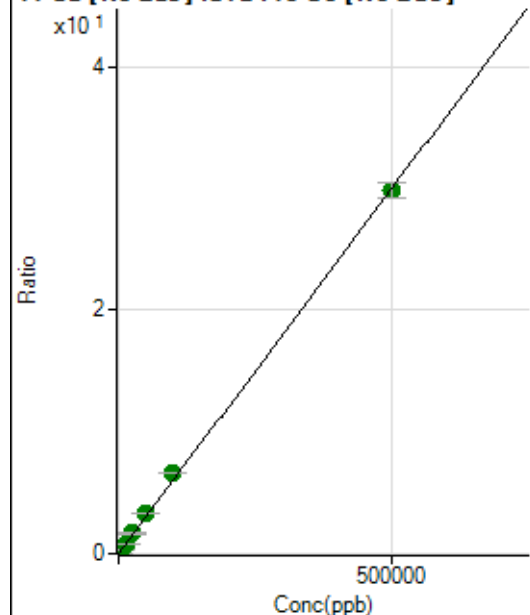
$$R = 0.9993$$

$$DL = 1.694$$

$$BEC = 7.408$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	11666.23	0.0012	P	4.5
2	☐	500.000	532.236	319935.31	0.0331	P	1.6
3	☐	5000.000	5560.111	3262376.50	0.3345	A	1.2
4	☐	12500.000	13964.685	8032481.95	0.8382	A	2.0
5	☐	25000.000	27745.591	15448824.47	1.6641	A	0.8
6	☐	50000.000	55118.644	30981916.32	3.3047	A	0.4
7	☐	100000.00	109878.57	62092040.28	6.5867	A	0.2
8	☐	500000.00	497332.89	284063250.79	29.8083	A	4.4

$$y = 5.9934\text{E-}005 * x + 0.0012$$

$$R = 0.9998$$

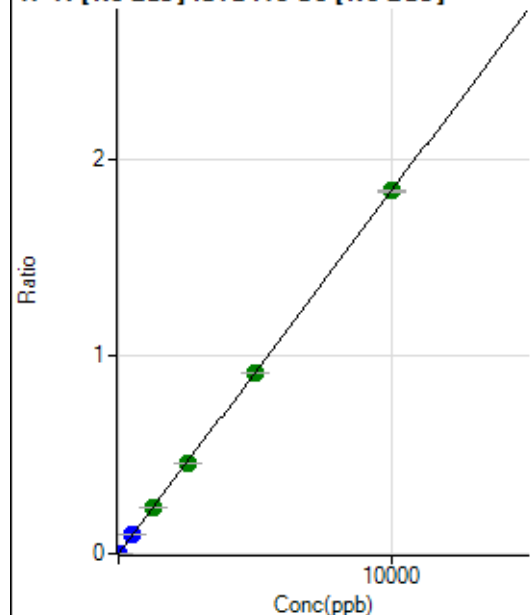
$$DL = 2.748$$

$$BEC = 20.46$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	183.34	0.0000	P	8.6
2	☐	5.000	5.023	9108.52	0.0009	P	3.4
3	☐	500.000	507.258	910132.36	0.0933	P	1.4
4	☐	1250.000	1275.305	2247682.04	0.2345	A	1.9
5	☐	2500.000	2500.663	4269320.10	0.4599	A	0.7
6	☐	5000.000	4992.531	8608085.87	0.9181	A	0.1
7	☐	10000.000	10000.043	17336477.65	1.8390	A	0.2
8	☐			5056.54	0.0005	P	6.1

$$y = 1.8390\text{E-}004 * x + 1.9276\text{E-}005$$

$$R = 1.0000$$

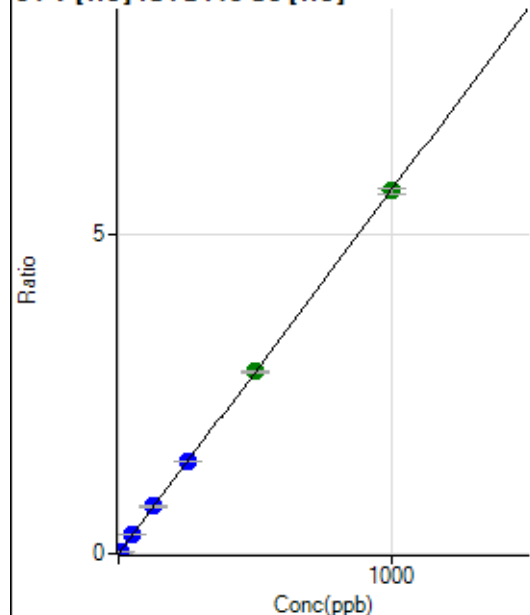
$$DL = 0.02692$$

$$BEC = 0.1048$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	21.11	0.0000	P	9.0
2	☐	5.000	5.042	24163.84	0.0287	P	0.3
3	☐	50.000	51.220	244365.60	0.2913	P	0.6
4	☐	125.000	129.635	602072.80	0.7371	P	0.5
5	☐	250.000	255.163	1168278.50	1.4509	P	0.7
6	☐	500.000	500.519	2335890.17	2.8460	A	0.7
7	☐	1000.000	997.809	4643414.10	5.6737	A	1.5
8	☐			4614.09	0.0056	P	1.7

$$y = 0.0057 * x + 2.5408\text{E-}005$$

$$R = 1.0000$$

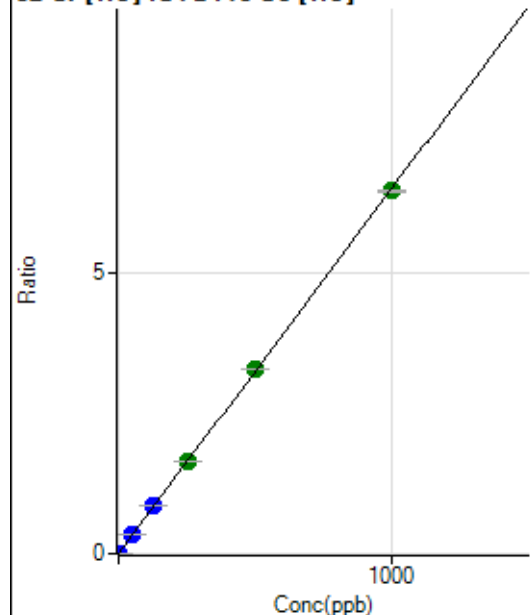
$$DL = 0.001209$$

$$BEC = 0.004468$$

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	2116.84	0.0025	P	4.0
2	☐	2.000	2.056	13362.69	0.0159	P	0.9
3	☐	50.000	52.292	286364.38	0.3413	P	1.0
4	☐	125.000	133.071	706253.33	0.8647	P	0.6
5	☐	250.000	254.321	1328787.14	1.6502	A	0.2
6	☐	500.000	506.270	2694172.60	3.2826	A	0.9
7	☐	1000.000	994.661	5276308.67	6.4468	A	0.4
8	☐			17551.40	0.0214	P	0.2

$$y = 0.0065 * x + 0.0025$$

$$R = 0.9999$$

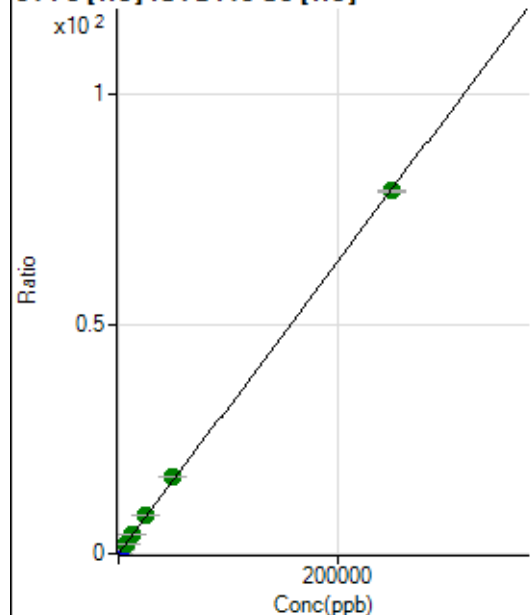
$$DL = 0.04699$$

$$BEC = 0.3932$$

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	2329.25	0.0028	P	4.0
2	☐	50.000	55.970	17317.64	0.0206	P	2.8
3	☐	2500.000	2882.801	769918.03	0.9177	P	0.7
4	☐	6250.000	6901.284	1791197.67	2.1930	A	1.3
5	☐	12500.000	13536.537	3461411.71	4.2987	A	1.0
6	☐	25000.000	26653.027	6944203.80	8.4613	A	1.4
7	☐	50000.000	52983.346	13763744.09	16.8175	A	0.8
8	☐	250000.00	249166.09	64784596.90	79.0775	A	0.2

$$y = 3.1736E-004 * x + 0.0028$$

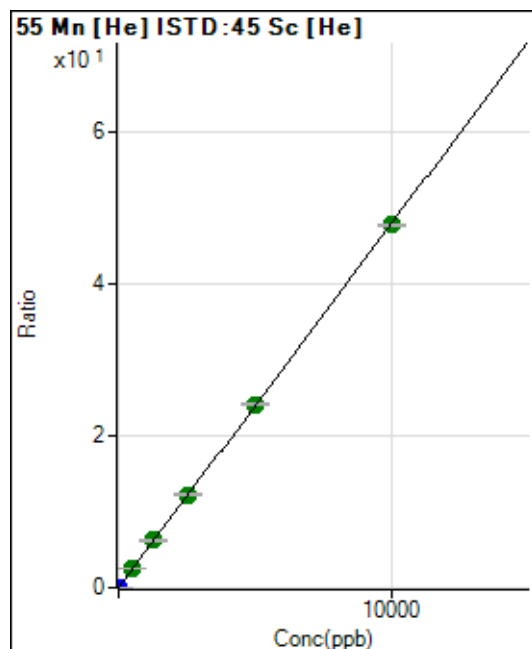
$$R = 0.9999$$

$$DL = 1.052$$

$$BEC = 8.835$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	584.46	0.0007	P	6.2
2	☐	1.000	1.055	4858.60	0.0058	P	1.6
3	☐	500.000	513.599	2069083.98	2.4662	A	1.1
4	☐	1250.000	1296.644	5084632.91	6.2253	A	0.8
5	☐	2500.000	2551.777	9864327.63	12.2505	A	0.8
6	☐	5000.000	5033.297	19830937.76	24.1631	A	0.8
7	☐	10000.000	9963.897	39147016.08	47.8325	A	0.7
8	☐			32436.18	0.0396	P	1.7

$$y = 0.0048 * x + 7.0345E-004$$

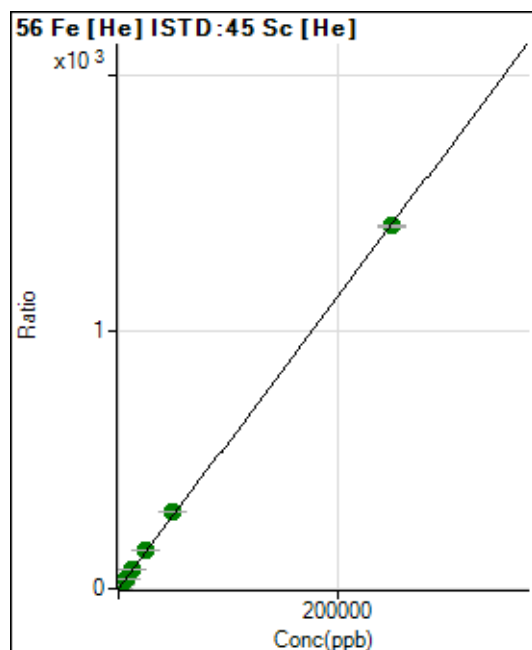
$$R = 1.0000$$

$$DL = 0.02732$$

$$BEC = 0.1465$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	19001.11	0.0229	P	1.0
2	☐	50.000	54.279	278099.72	0.3303	P	1.0
3	☐	2500.000	2731.349	12996350.06	15.4907	A	0.9
4	☐	6250.000	6900.071	31934108.58	39.0984	A	0.5
5	☐	12500.000	13592.492	61999509.26	76.9981	A	0.6
6	☐	25000.000	26750.906	124351044.45	151.5151	A	0.6
7	☐	50000.000	53006.712	245692035.12	300.2035	A	0.8
8	☐	250000.00	249150.37	1155971699.9	1,410.978	A	0.6

$$y = 0.0057 * x + 0.0229$$

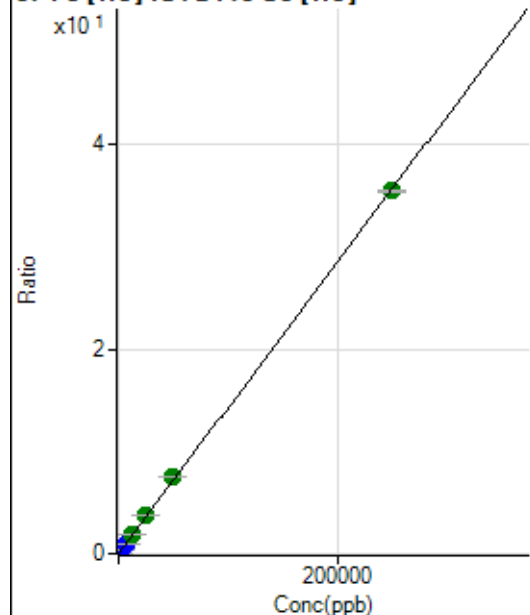
$$R = 0.9999$$

$$DL = 0.127$$

$$BEC = 4.039$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1227.85	0.0015	P	11.2
2	☐	50.000	54.058	7715.07	0.0092	P	4.3
3	☐	2500.000	2814.171	336873.11	0.4015	P	0.5
4	☐	6250.000	7083.691	823678.20	1.0085	P	0.5
5	☐	12500.000	13531.298	1550079.77	1.9250	A	1.4
6	☐	25000.000	26564.393	3100426.46	3.7778	A	1.4
7	☐	50000.000	52717.614	6134839.20	7.4957	A	0.6
8	☐	250000.00	249224.48	29026643.24	35.4305	A	0.7

$$y = 1.4216\text{E-}004 * x + 0.0015$$

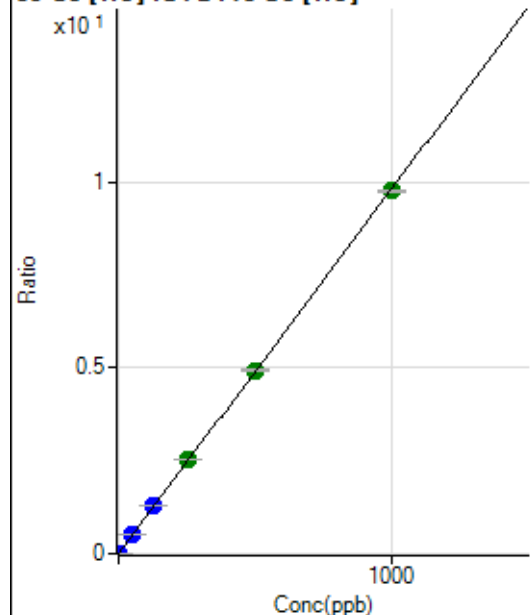
R = 0.9999

DL = 3.495

BEC = 10.39

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	152.23	0.0002	P	18.6
2	☐	1.000	1.065	8957.20	0.0106	P	1.5
3	☐	50.000	52.747	434400.37	0.5178	P	0.4
4	☐	125.000	132.821	1064667.53	1.3035	P	0.4
5	☐	250.000	257.417	2034048.18	2.5262	A	0.8
6	☐	500.000	503.320	4053661.22	4.9391	A	0.5
7	☐	1000.000	995.371	7993990.16	9.7675	A	0.6
8	☐			34248.00	0.0418	P	1.3

$$y = 0.0098 * x + 1.8332\text{E-}004$$

R = 0.9999

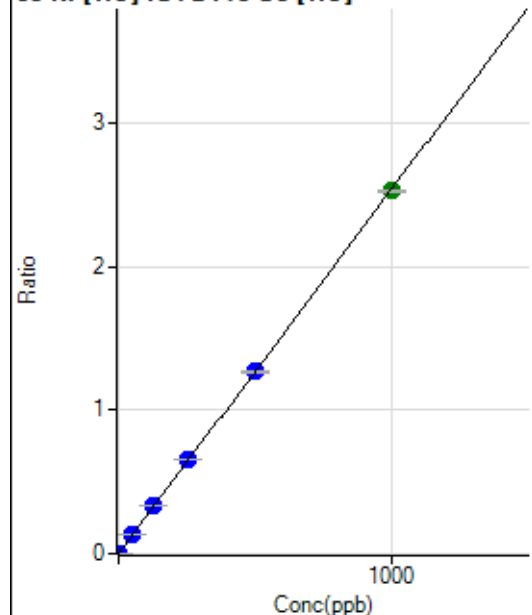
DL = 0.01045

BEC = 0.01868

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	318.90	0.0004	P	5.7
2	☐	1.000	1.031	2525.79	0.0030	P	3.7
3	☐	50.000	52.949	112991.44	0.1347	P	1.0
4	☐	125.000	133.689	277269.70	0.3395	P	0.5
5	☐	250.000	259.238	529755.33	0.6579	P	0.2
6	☐	500.000	501.055	1043333.04	1.2713	P	0.9
7	☐	1000.000	995.930	2067708.23	2.5265	A	0.6
8	☐			10654.99	0.0130	P	2.3

$$y = 0.0025 * x + 3.8389E-004$$

$$R = 0.9999$$

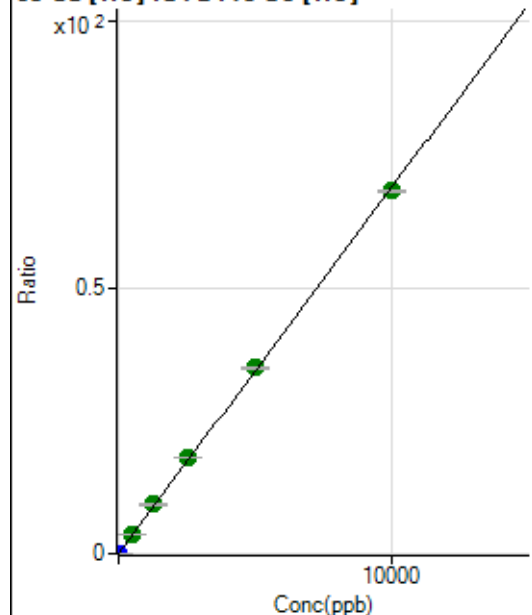
$$DL = 0.02595$$

$$BEC = 0.1514$$

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	2401.33	0.0029	P	2.6
2	☐	2.000	2.127	14747.36	0.0175	P	1.6
3	☐	500.000	538.575	3108743.57	3.7054	A	0.5
4	☐	1250.000	1344.003	7548825.93	9.2425	A	0.7
5	☐	2500.000	2615.440	14480331.03	17.9832	A	0.9
6	☐	5000.000	5085.927	28697890.96	34.9669	A	0.6
7	☐	10000.000	9914.497	55785141.95	68.1618	A	0.6
8	☐			20436.28	0.0249	P	4.0

$$y = 0.0069 * x + 0.0029$$

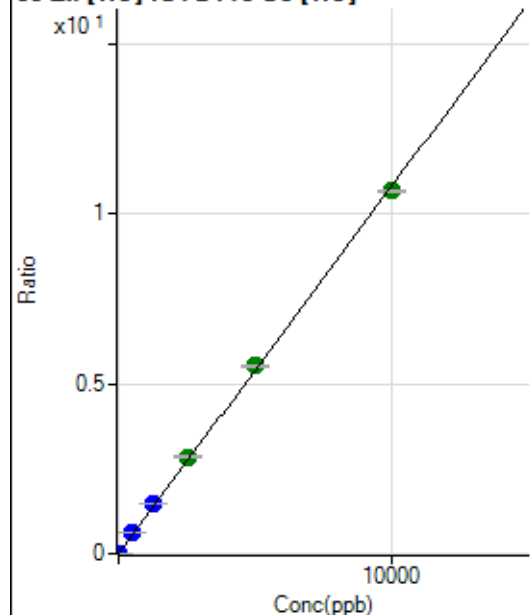
$$R = 0.9998$$

$$DL = 0.03306$$

$$BEC = 0.4204$$

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	660.02	0.0008	P	2.0
2	☐	2.000	2.326	2782.51	0.0033	P	7.2
3	☐	500.000	596.239	540541.11	0.6443	P	0.5
4	☐	1250.000	1359.363	1198916.85	1.4679	P	0.8
5	☐	2500.000	2641.108	2295822.69	2.8513	A	1.0
6	☐	5000.000	5127.263	4542171.32	5.5345	A	1.0
7	☐	10000.000	9882.609	8730261.47	10.6668	A	0.4
8	☐			11801.43	0.0144	P	1.6

$$y = 0.0011 * x + 7.9446E-004$$

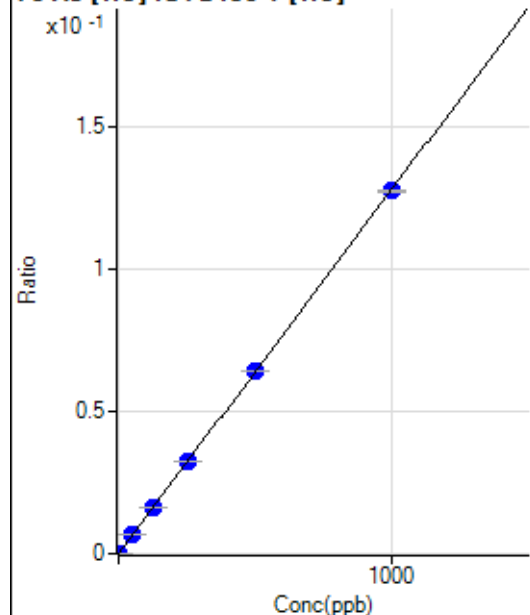
$$R = 0.9997$$

$$DL = 0.04516$$

$$BEC = 0.7361$$

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	6.79	0.0000	P	42.2
2	☐	1.000	1.074	657.43	0.0001	P	5.0
3	☐	50.000	51.163	31108.41	0.0065	P	1.4
4	☐	125.000	128.646	77036.45	0.0164	P	0.7
5	☐	250.000	252.741	149537.16	0.0323	P	1.0
6	☐	500.000	503.937	302952.12	0.0644	P	0.1
7	☐	1000.000	996.832	601042.22	0.1273	P	0.6
8	☐			512.97	0.0001	P	6.8

$$y = 1.2772E-004 * x + 1.4231E-006$$

$$R = 1.0000$$

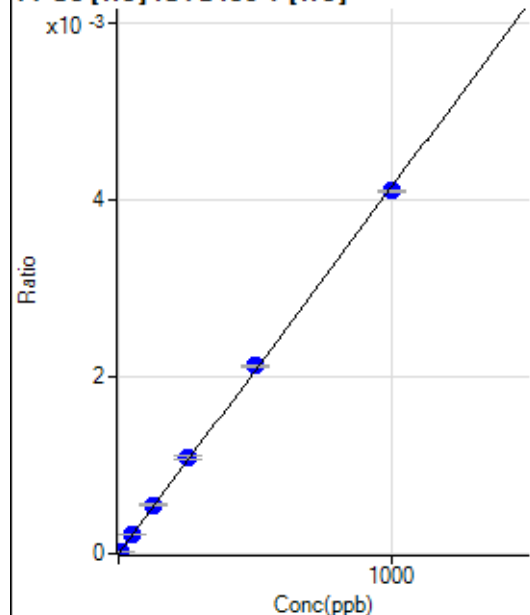
$$DL = 0.01412$$

$$BEC = 0.01114$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	4.186	82.22	0.0000	P	14.6
3	☐	50.000	52.271	1031.16	0.0002	P	3.8
4	☐	125.000	133.300	2589.14	0.0006	P	0.9
5	☐	250.000	261.687	5020.90	0.0011	P	4.3
6	☐	500.000	512.394	9992.34	0.0021	P	0.9
7	☐	1000.000	989.734	19358.32	0.0041	P	0.5
8	☐			10.00	0.0000	P	58.5

$$y = 4.1432\text{E-}006 * x + 0.0000\text{E}+000$$

$$R = 0.9998$$

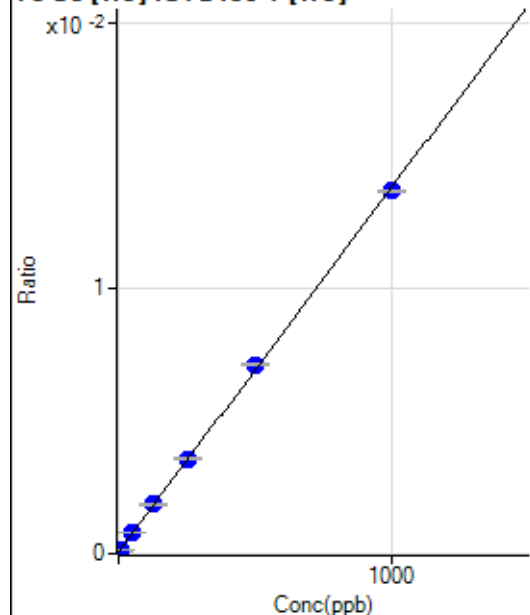
$$DL = 0$$

$$BEC = 0$$

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	304.94	0.0001	P	7.8
2	☐	5.000	5.181	640.76	0.0001	P	6.2
3	☐	50.000	53.246	3787.54	0.0008	P	1.5
4	☐	125.000	131.367	8764.97	0.0019	P	2.3
5	☐	250.000	256.326	16616.75	0.0036	P	1.2
6	☐	500.000	513.116	33498.80	0.0071	P	0.8
7	☐	1000.000	990.901	64603.26	0.0137	P	0.4
8	☐			367.29	0.0001	P	3.4

$$y = 1.3746\text{E-}005 * x + 6.3895\text{E-}005$$

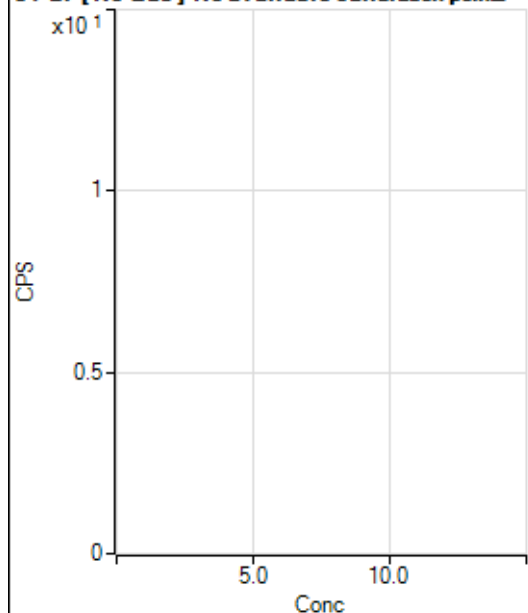
$$R = 0.9998$$

$$DL = 1.083$$

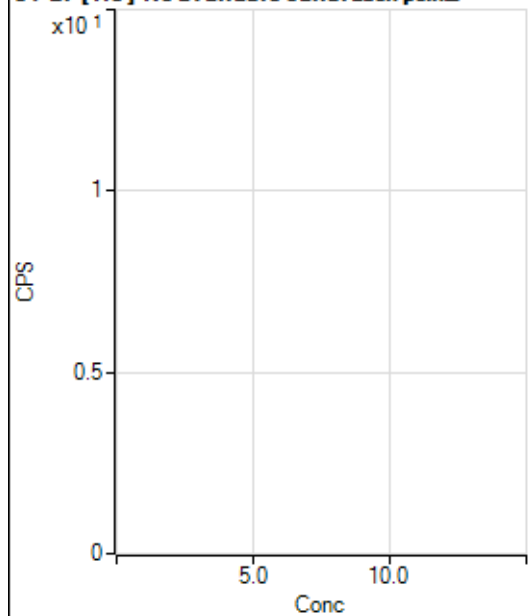
$$BEC = 4.648$$

Weight: <None>

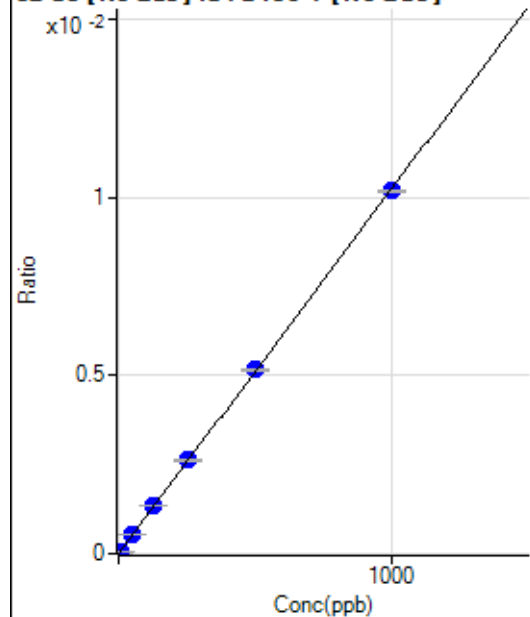
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			21243.62		P	1.0
2	☐			21863.90		P	1.2
3	☐			22745.89		P	3.6
4	☐			21749.81		P	2.1
5	☐			21569.02		P	1.4
6	☐			21630.23		P	0.8
7	☐			22189.46		P	2.7
8	☐			22615.06		P	4.2

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			96.76		P	21.5
2	☐			80.08		P	43.3
3	☐			90.09		P	40.1
4	☐			106.78		P	30.1
5	☐			66.73		P	48.2
6	☐			70.07		P	49.5
7	☐			73.41		P	7.9
8	☐			73.41		P	43.8

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	7.08	0.0000	P	757.
2	☐	5.000	5.099	1034.73	0.0001	P	6.4
3	☐	50.000	52.591	10635.30	0.0005	P	1.7
4	☐	125.000	132.815	26605.93	0.0014	P	1.6
5	☐	250.000	255.837	50962.96	0.0026	P	0.6
6	☐	500.000	504.750	101308.25	0.0052	P	0.6
7	☐	1000.000	995.059	198071.22	0.0102	P	0.3
8	☐			307.96	0.0000	P	16.4

$$y = 1.0245\text{E-}005 * x + 3.5967\text{E-}007$$

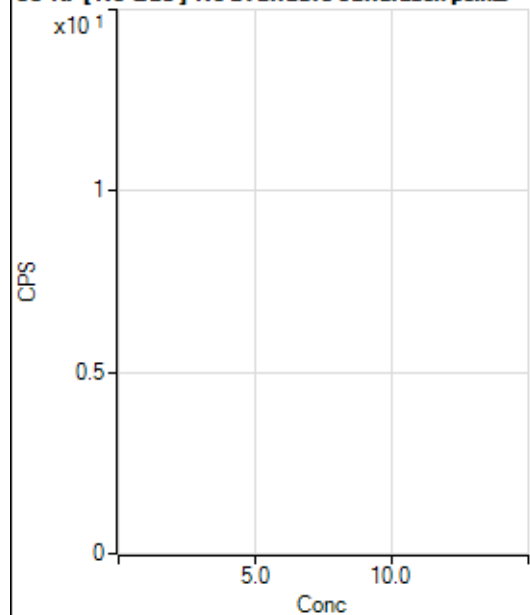
$$R = 0.9999$$

$$DL = 0.7979$$

$$BEC = 0.03511$$

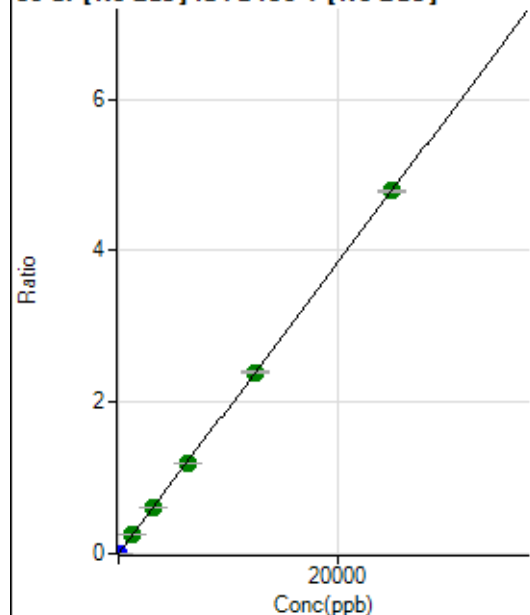
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			508.90		P	10.4
2	☐			497.79		P	9.0
3	☐			531.13		P	8.1
4	☐			483.35		P	7.2
5	☐			468.90		P	6.2
6	☐			517.79		P	4.1
7	☐			484.46		P	9.0
8	☐			481.13		P	11.6

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	794.48	0.0000	P	5.2
2	☐	1.000	0.948	4373.00	0.0002	P	5.1
3	☐	1250.000	1268.270	4793596.98	0.2430	A	0.8
4	☐	3125.000	3190.740	11951347.40	0.6114	A	1.9
5	☐	6250.000	6250.144	23281759.20	1.1975	A	0.5
6	☐	12500.000	12466.875	46788091.33	2.3886	A	1.1
7	☐	25000.000	25007.396	93096484.03	4.7912	A	0.8
8	☐			35774.78	0.0018	P	4.3

$$y = 1.9159E-004 * x + 4.0698E-005$$

$$R = 1.0000$$

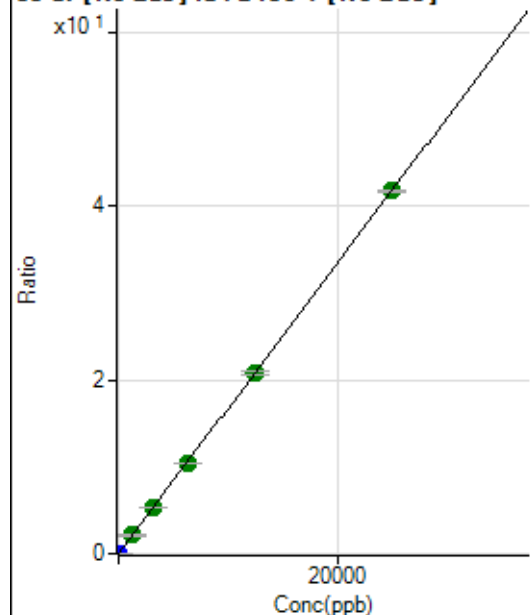
$$DL = 0.03301$$

$$BEC = 0.2124$$

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	569.47	0.0000	P	22.8
2	☐	1.000	0.976	32617.38	0.0017	P	2.0
3	☐	1250.000	1263.137	41550348.15	2.1065	A	0.6
4	☐	3125.000	3168.668	103303689.12	5.2843	A	1.8
5	☐	6250.000	6248.425	202589887.86	10.4204	A	0.3
6	☐	12500.000	12457.564	406936589.65	20.7752	A	1.3
7	☐	25000.000	25015.496	810594912.56	41.7178	A	0.6
8	☐			304823.65	0.0157	P	4.0

$$y = 0.0017 * x + 2.9192E-005$$

$$R = 1.0000$$

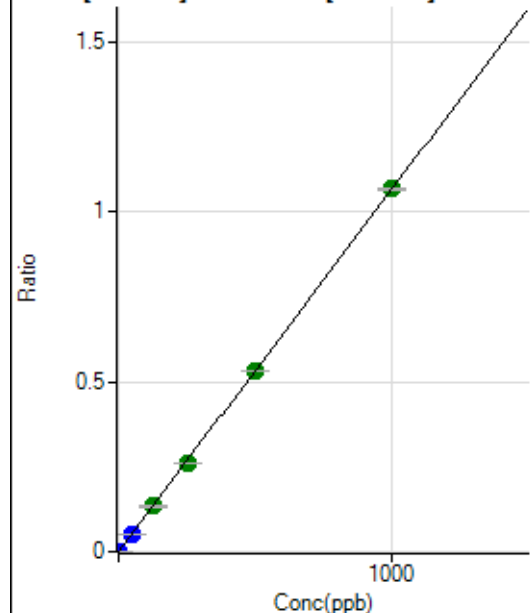
$$DL = 0.01198$$

$$BEC = 0.0175$$

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	8.9
2	☐	1.000	0.911	19872.20	0.0010	P	2.8
3	☐	50.000	50.082	1053269.34	0.0534	P	0.6
4	☐	125.000	125.274	2610144.72	0.1335	A	2.1
5	☐	250.000	244.991	5075821.38	0.2611	A	1.1
6	☐	500.000	498.340	10404017.51	0.5310	A	0.5
7	☐	1000.000	1002.044	20744883.10	1.0677	A	0.3
8	☐			12016.34	0.0006	P	7.1

$$y = 0.0011 * x + 3.9991E-005$$

$$R = 1.0000$$

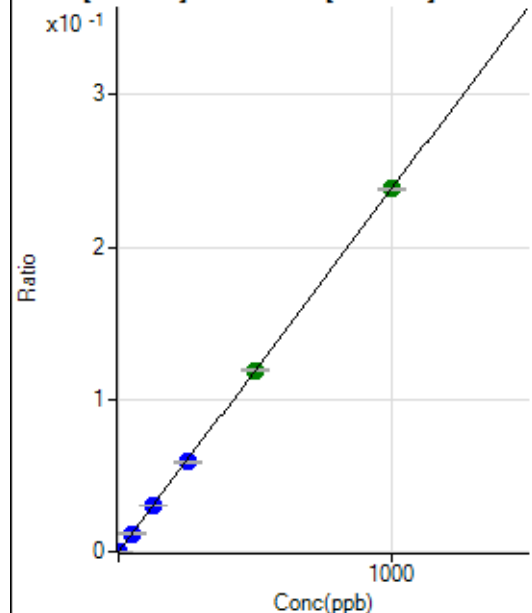
$$DL = 0.01006$$

$$BEC = 0.03753$$

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	26.1
2	☐	1.000	0.907	4375.76	0.0002	P	0.8
3	☐	50.000	50.192	235836.82	0.0120	P	1.3
4	☐	125.000	126.884	590665.80	0.0302	P	2.3
5	☐	250.000	248.542	1150618.42	0.0592	P	1.8
6	☐	500.000	499.886	2331670.43	0.1190	A	0.5
7	☐	1000.000	1000.176	4626457.48	0.2381	A	0.3
8	☐			2672.53	0.0001	P	5.6

$$y = 2.3808E-004 * x + 6.5419E-006$$

$$R = 1.0000$$

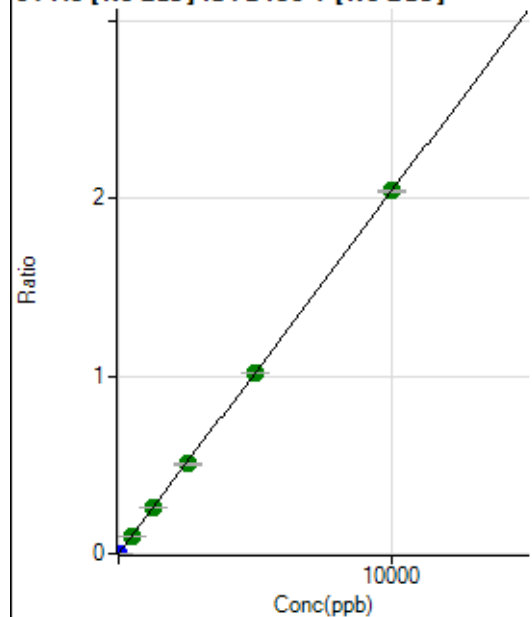
$$DL = 0.02149$$

$$BEC = 0.02748$$

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	291.68	0.0000	P	8.3
2	☐	5.000	5.791	23558.29	0.0012	P	1.9
3	☐	500.000	497.066	2001835.26	0.1015	A	0.3
4	☐	1250.000	1261.926	5036991.26	0.2577	A	1.9
5	☐	2500.000	2480.516	9846797.70	0.5065	A	1.3
6	☐	5000.000	4980.611	19923358.08	1.0169	A	0.4
7	☐	10000.000	10013.221	39721178.32	2.0444	A	0.2
8	☐			16226.09	0.0008	P	6.3

$$y = 2.0417\text{E-}004 * x + 1.4940\text{E-}005$$

$$R = 1.0000$$

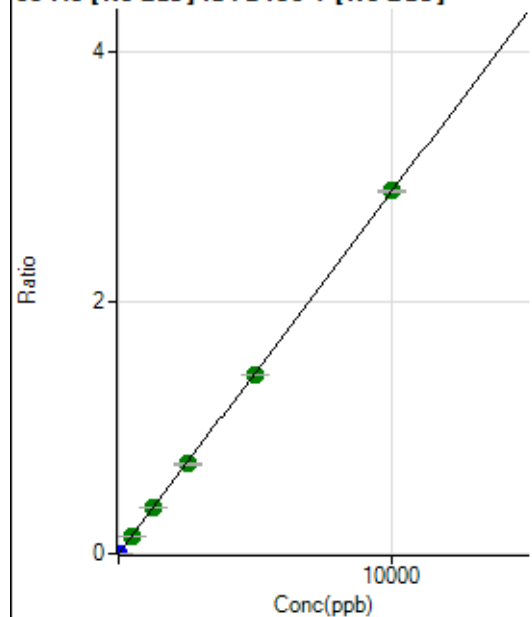
$$DL = 0.01815$$

$$BEC = 0.07318$$

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	61.11	0.0000	P	16.1
2	☐	5.000	5.109	29009.94	0.0015	P	0.9
3	☐	500.000	501.317	2847207.14	0.1444	A	0.4
4	☐	1250.000	1261.059	7098852.29	0.3631	A	1.7
5	☐	2500.000	2480.966	13889985.12	0.7144	A	1.1
6	☐	5000.000	4941.531	27879371.11	1.4229	A	0.3
7	☐	10000.000	10032.545	56132964.10	2.8889	A	0.5
8	☐			20731.87	0.0011	P	7.6

$$y = 2.8796\text{E-}004 * x + 3.1322\text{E-}006$$

$$R = 1.0000$$

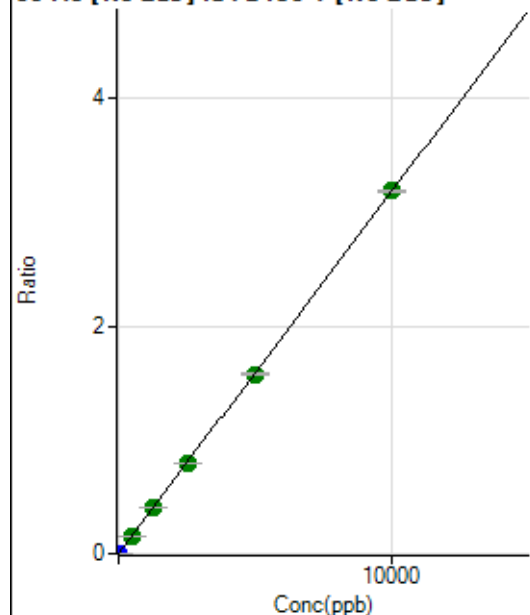
$$DL = 0.005261$$

$$BEC = 0.01088$$

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	177.78	0.0000	P	30.3
2	☐	5.000	5.069	31910.33	0.0016	P	1.3
3	☐	500.000	501.275	3145336.25	0.1595	A	0.7
4	☐	1250.000	1266.042	7873924.91	0.4028	A	2.3
5	☐	2500.000	2485.648	15374880.90	0.7908	A	0.9
6	☐	5000.000	4962.840	30934907.63	1.5789	A	0.9
7	☐	10000.000	10020.099	61940016.66	3.1878	A	0.7
8	☐			31762.98	0.0016	P	4.0

$$y = 3.1814\text{E-}004 * x + 9.1108\text{E-}006$$

$$R = 1.0000$$

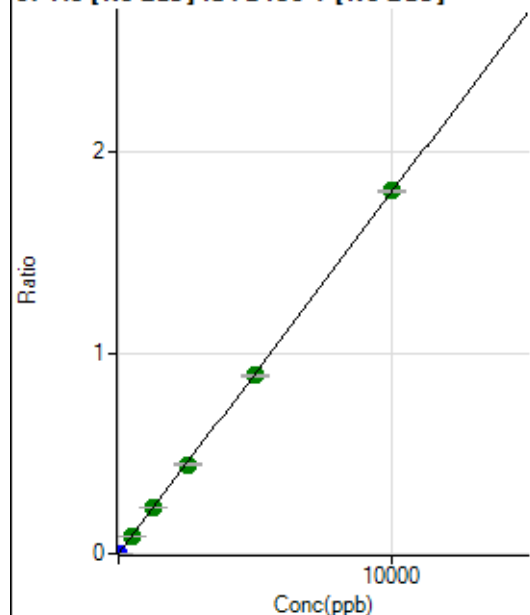
$$DL = 0.02604$$

$$BEC = 0.02864$$

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	72.22	0.0000	P	29.2
2	☐	5.000	4.973	17683.36	0.0009	P	1.7
3	☐	500.000	500.880	1778117.57	0.0902	A	1.1
4	☐	1250.000	1263.477	4445751.88	0.2274	A	1.4
5	☐	2500.000	2466.462	8631117.73	0.4439	A	0.8
6	☐	5000.000	4928.197	17378767.92	0.8870	A	1.2
7	☐	10000.000	10042.558	35120639.33	1.8075	A	0.4
8	☐			12463.95	0.0006	P	2.0

$$y = 1.7999\text{E-}004 * x + 3.7018\text{E-}006$$

$$R = 1.0000$$

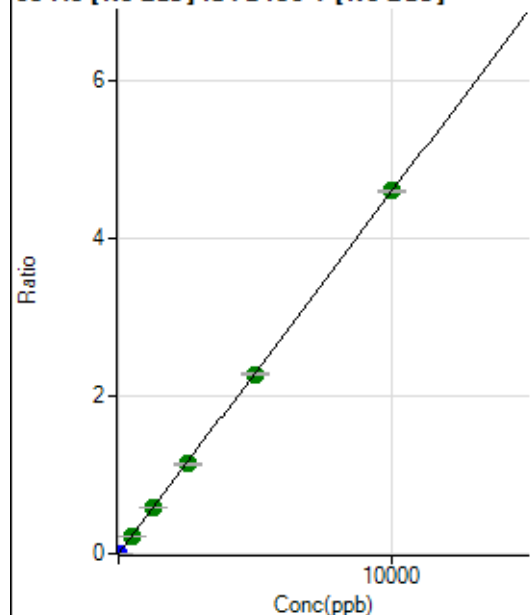
$$DL = 0.01801$$

$$BEC = 0.02057$$

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	141.67	0.0000	P	31.0
2	☐	5.000	5.014	45343.23	0.0023	P	1.2
3	☐	500.000	503.632	4551330.09	0.2308	A	0.3
4	☐	1250.000	1269.541	11371004.16	0.5817	A	1.8
5	☐	2500.000	2472.768	22027515.77	1.1329	A	1.3
6	☐	5000.000	4950.033	44429395.78	2.2679	A	1.0
7	☐	10000.000	10029.167	89285752.00	4.5950	A	0.8
8	☐			29697.49	0.0015	P	2.3

$$y = 4.5816\text{E-}004 * x + 7.2550\text{E-}006$$

$$R = 1.0000$$

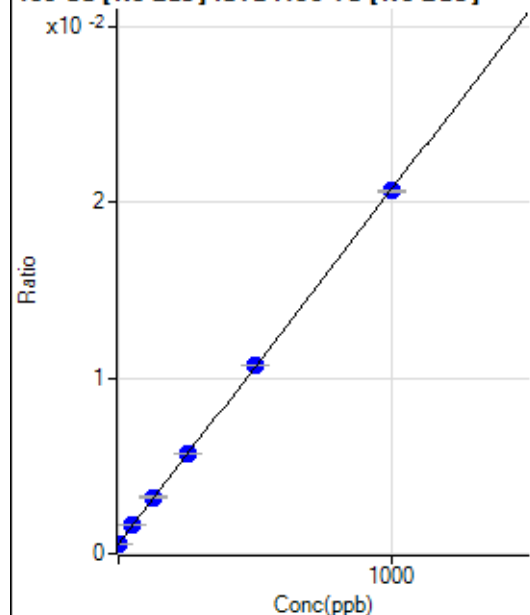
$$DL = 0.01472$$

$$BEC = 0.01584$$

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	8269.21	0.0006	P	3.6
2	☐	1.000	1.147	8794.57	0.0006	P	3.4
3	☐	50.000	53.748	24785.55	0.0016	P	3.9
4	☐	125.000	131.591	48350.77	0.0032	P	1.3
5	☐	250.000	254.337	85354.11	0.0057	P	0.8
6	☐	500.000	503.746	161590.55	0.0107	P	0.7
7	☐	1000.000	996.031	307305.90	0.0207	P	0.7
8	☐			8463.85	0.0006	P	6.0

$$y = 2.0178\text{E-}005 * x + 5.6028\text{E-}004$$

$$R = 1.0000$$

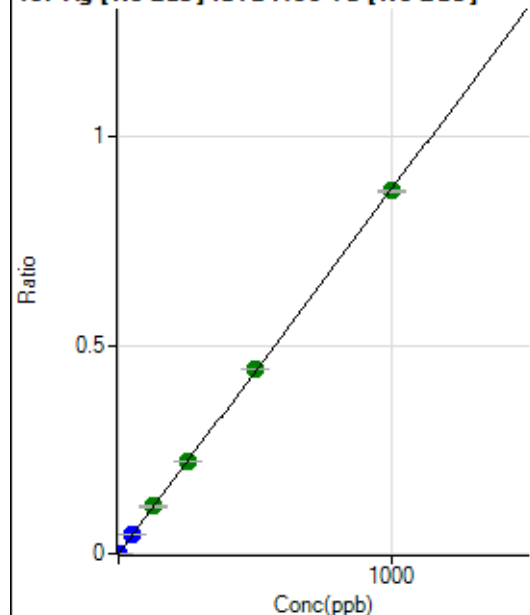
$$DL = 3.036$$

$$BEC = 27.77$$

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	166.67	0.0000	P	24.0
2	☐	1.000	0.814	10890.57	0.0007	P	12.5
3	☐	50.000	52.080	686632.87	0.0455	P	2.0
4	☐	125.000	129.406	1701119.34	0.1131	A	2.0
5	☐	250.000	253.336	3320881.19	0.2214	A	1.2
6	☐	500.000	505.479	6656623.67	0.4418	A	0.5
7	☐	1000.000	995.772	12945981.80	0.8704	A	0.8
8	☐			8405.45	0.0006	P	3.6

$$y = 8.7407\text{E-}004 * x + 1.1314\text{E-}005$$

$$R = 1.0000$$

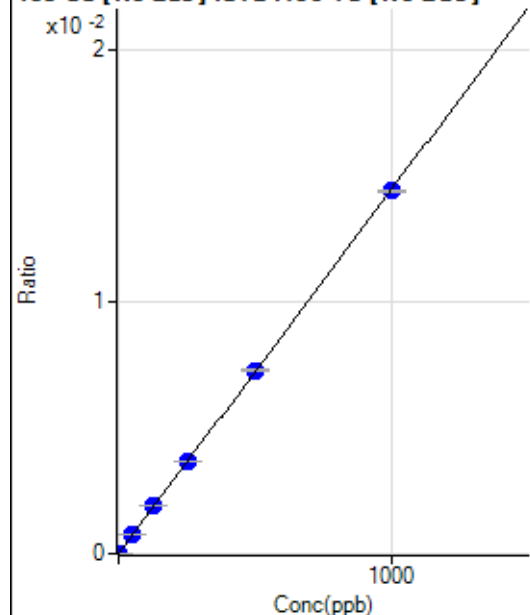
$$DL = 0.009316$$

$$BEC = 0.01294$$

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	30.55	0.0000	P	42.5
2	☐	1.000	1.038	256.95	0.0000	P	17.7
3	☐	50.000	51.651	11283.66	0.0007	P	2.2
4	☐	125.000	131.691	28640.96	0.0019	P	1.8
5	☐	250.000	253.379	54924.51	0.0037	P	0.7
6	☐	500.000	503.957	109733.38	0.0073	P	1.8
7	☐	1000.000	996.258	214095.89	0.0144	P	0.3
8	☐			141.67	0.0000	P	9.2

$$y = 1.4447\text{E-}005 * x + 2.0628\text{E-}006$$

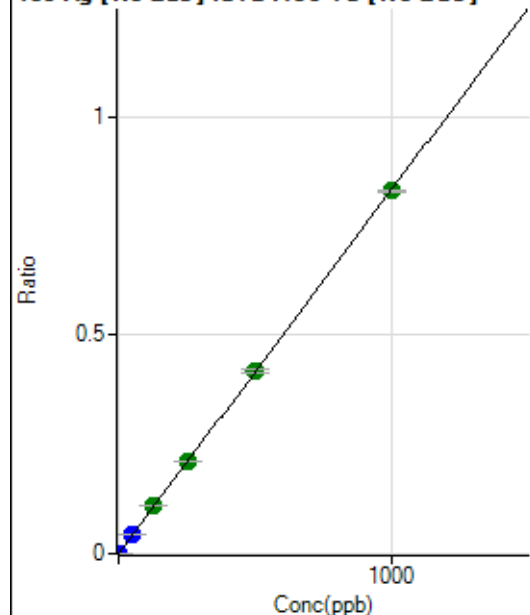
$$R = 1.0000$$

$$DL = 0.1821$$

$$BEC = 0.1428$$

Weight: <None>

Min Conc: 0

109 Ag [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	51.7
2	☐	1.000	0.786	9920.33	0.0007	P	10.1
3	☐	50.000	52.060	654110.11	0.0434	P	2.5
4	☐	125.000	130.697	1637373.79	0.1089	A	1.6
5	☐	250.000	252.067	3149340.20	0.2100	A	0.5
6	☐	500.000	503.203	6314969.37	0.4192	A	1.5
7	☐	1000.000	997.067	12354299.76	0.8307	A	0.7
8	☐			8213.65	0.0006	P	4.5

$$y = 8.3309\text{E-}004 * x + 3.5849\text{E-}006$$

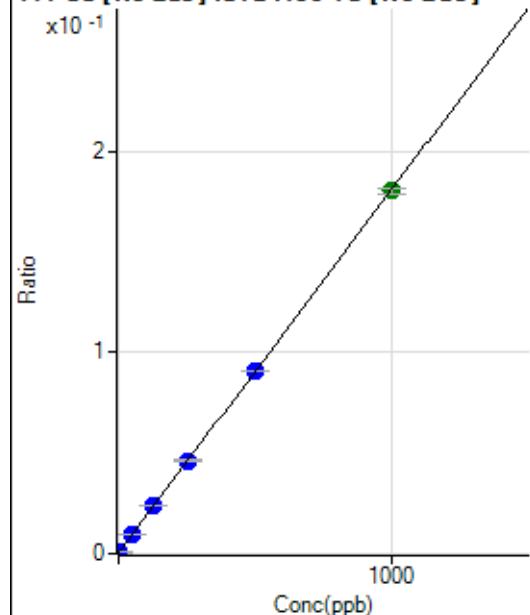
$$R = 1.0000$$

$$DL = 0.006672$$

$$BEC = 0.004303$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	5783.73	0.0004	P	3.8
2	☐	1.000	1.030	8707.17	0.0006	P	1.9
3	☐	50.000	52.087	147522.53	0.0098	P	0.5
4	☐	125.000	130.427	359608.99	0.0239	P	0.9
5	☐	250.000	254.462	694060.78	0.0463	P	1.0
6	☐	500.000	502.334	1370891.88	0.0910	P	0.3
7	☐	1000.000	996.935	2679963.07	0.1802	A	1.3
8	☐			6797.80	0.0005	P	5.4

$$y = 1.8035\text{E-}004 * x + 3.9189\text{E-}004$$

$$R = 1.0000$$

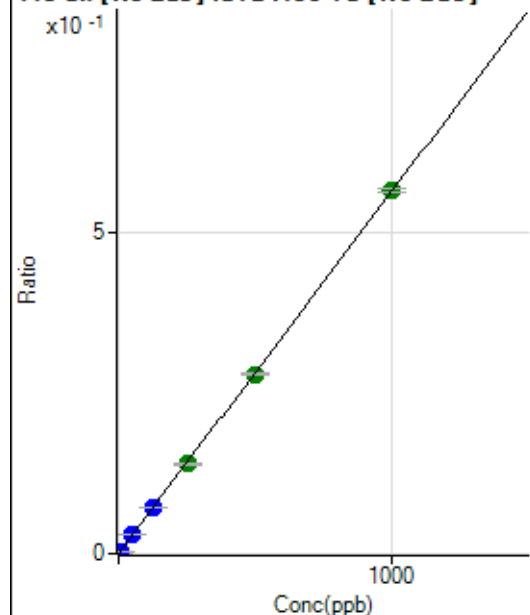
$$DL = 0.2499$$

$$BEC = 2.173$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	3397.72	0.0002	P	5.8
2	☐	5.000	4.846	44564.01	0.0030	P	2.1
3	☐	50.000	51.003	435987.22	0.0289	P	0.4
4	☐	125.000	127.625	1082982.13	0.0720	P	1.9
5	☐	250.000	248.352	2098193.93	0.1399	A	1.7
6	☐	500.000	495.628	4203184.64	0.2790	A	1.4
7	☐	1000.000	1002.220	8389470.93	0.5640	A	1.1
8	☐			11521.51	0.0008	P	3.6

$$y = 5.6249\text{E-}004 * x + 2.3013\text{E-}004$$

$$R = 1.0000$$

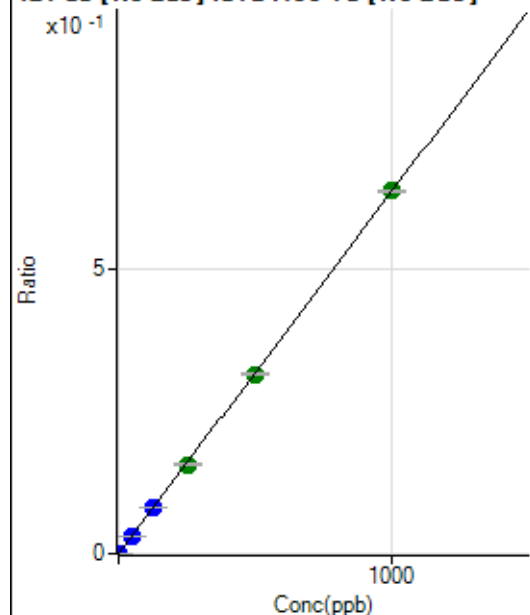
$$DL = 0.07107$$

$$BEC = 0.4091$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	150.01	0.0000	P	39.2
2	☐	2.000	1.937	18659.79	0.0012	P	2.3
3	☐	50.000	50.061	478453.68	0.0317	P	0.8
4	☐	125.000	126.993	1210312.34	0.0805	P	1.2
5	☐	250.000	246.766	2344931.48	0.1564	A	1.0
6	☐	500.000	495.366	4729952.88	0.3139	A	0.8
7	☐	1000.000	1002.873	9453142.40	0.6355	A	0.8
8	☐			11624.47	0.0008	P	3.3

$$y = 6.3371\text{E-}004 * x + 1.0135\text{E-}005$$

$$R = 1.0000$$

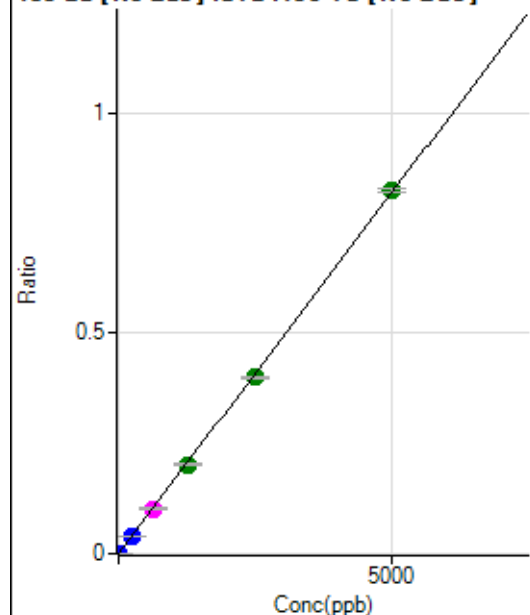
$$DL = 0.0188$$

$$BEC = 0.01599$$

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	61.11	0.0000	P	8.8
2	☐	10.000	9.484	23464.46	0.0016	P	0.8
3	☐	250.000	249.478	615784.12	0.0408	P	0.6
4	☐	625.000	624.724	1537872.45	0.1023	M	1.3
5	☐	1250.000	1237.692	3038507.75	0.2026	A	0.6
6	☐	2500.000	2446.436	6033199.40	0.4005	A	1.0
7	☐	5000.000	5029.921	12248504.18	0.8234	A	1.0
8	☐			7902.43	0.0005	P	7.6

$$y = 1.6370\text{E-}004 * x + 4.1424\text{E-}006$$

$$R = 0.9999$$

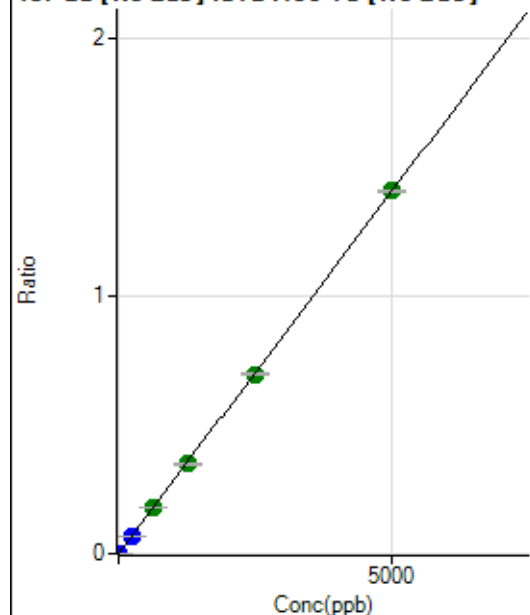
$$DL = 0.006697$$

$$BEC = 0.02531$$

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	66.67	0.0000	P	20.9
2	☐	10.000	9.475	40235.61	0.0027	P	1.8
3	☐	250.000	249.644	1058462.71	0.0702	P	0.5
4	☐	625.000	629.826	2663590.64	0.1771	A	1.6
5	☐	1250.000	1235.866	5211435.01	0.3476	A	1.5
6	☐	2500.000	2481.338	10512171.76	0.6978	A	1.0
7	☐	5000.000	5012.280	20965466.44	1.4096	A	0.4
8	☐			13000.75	0.0009	P	7.8

$$y = 2.8122\text{E-}004 * x + 4.5113\text{E-}006$$

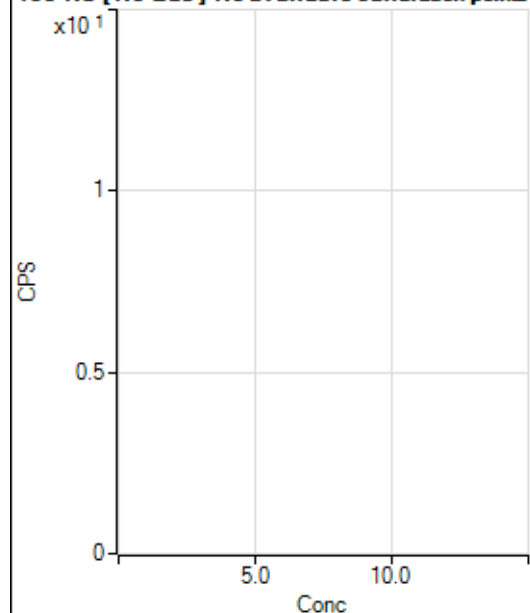
$$R = 1.0000$$

$$DL = 0.01008$$

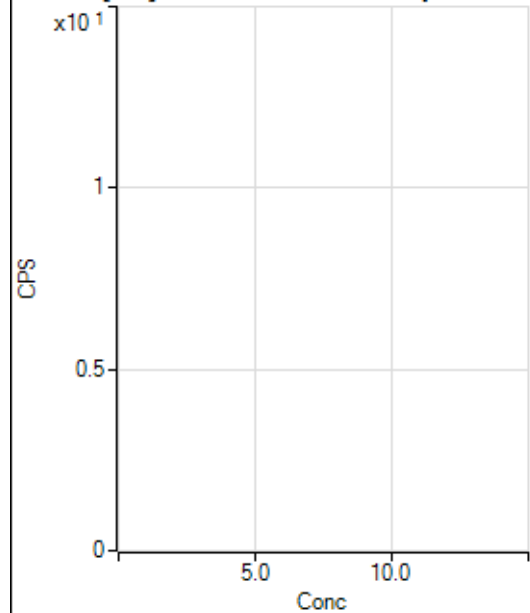
$$BEC = 0.01604$$

Weight: <None>

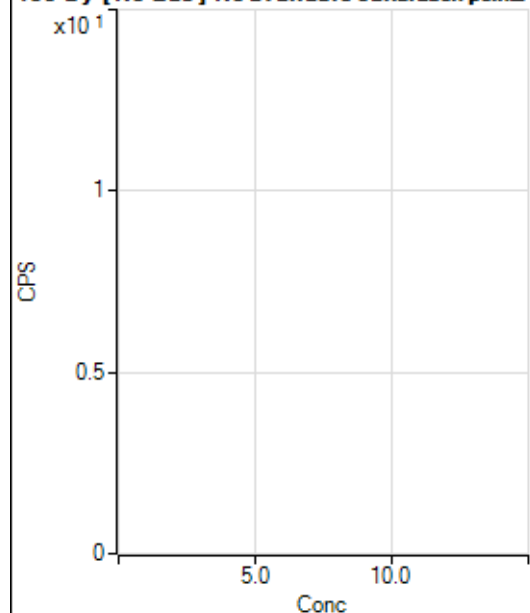
Min Conc: 0

150 Nd [No Gas] No available calibration points

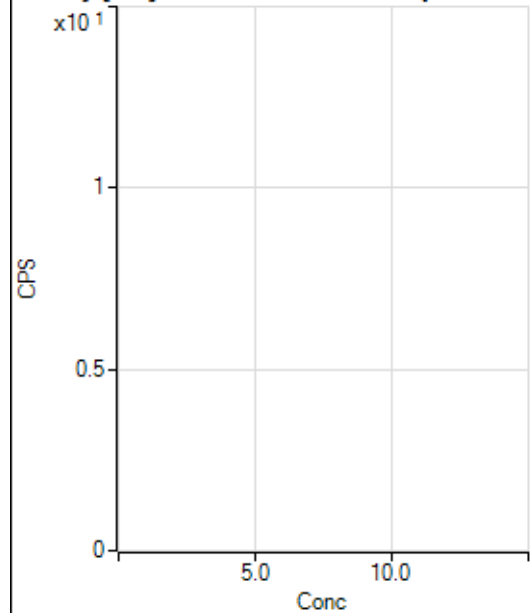
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	173.
2	☐			6.67		P	173.
3	☐			84.45		P	12.1
4	☐			173.34		P	13.9
5	☐			371.12		P	2.7
6	☐			684.47		P	9.3
7	☐			1308.98		P	7.4
8	☐			122.22		P	16.7

150 Nd [He] No available calibration points

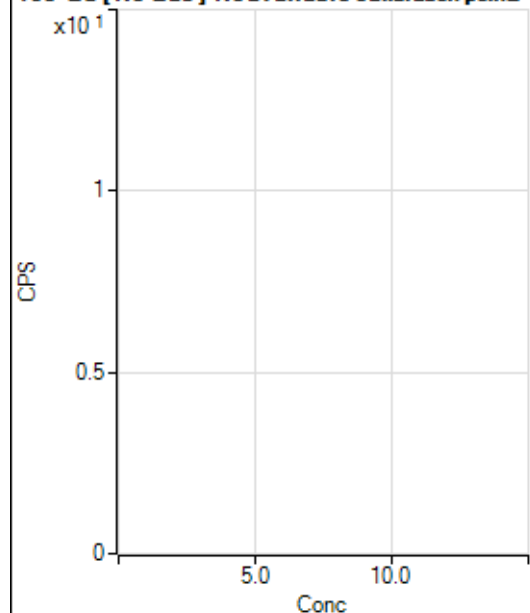
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	86.6
2	☐			5.56		P	34.7
3	☐			24.45		P	64.4
4	☐			50.00		P	26.7
5	☐			77.78		P	2.5
6	☐			178.89		P	20.8
7	☐			313.34		P	17.1
8	☐			90.00		P	7.4

156 Dy [No Gas] No available calibration points

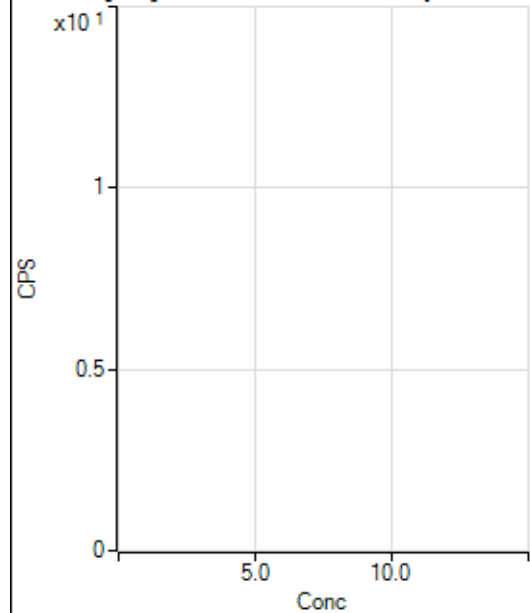
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.56		P	173.
2	☐			11.11		P	43.3
3	☐			47.22		P	44.4
4	☐			80.56		P	15.8
5	☐			163.89		P	22.9
6	☐			266.68		P	20.5
7	☐			694.48		P	6.2
8	☐			1158.41		P	5.7

156 Dy [He] No available calibration points

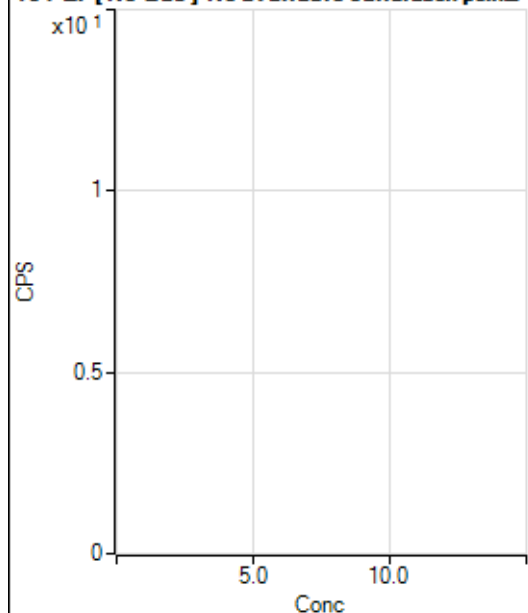
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			3.33		P	100.
3	☐			32.22		P	33.3
4	☐			93.33		P	35.2
5	☐			192.23		P	6.1
6	☐			377.79		P	2.2
7	☐			774.48		P	2.7
8	☐			825.59		P	2.5

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

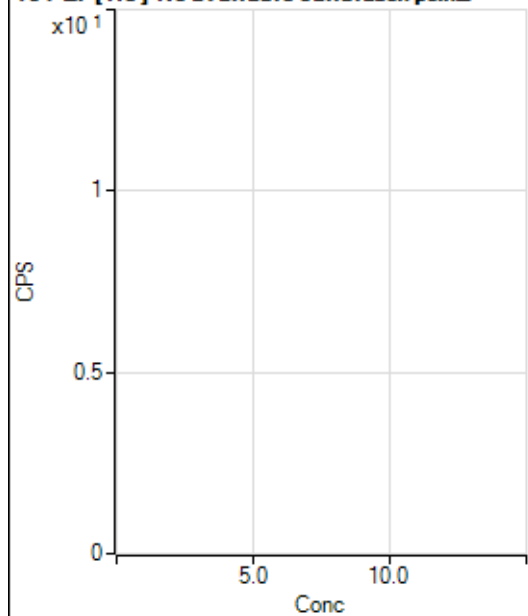
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			86.11		P	14.8
2	☐			86.11		P	11.2
3	☐			111.12		P	26.3
4	☐			169.45		P	20.5
5	☐			213.90		P	21.5
6	☐			222.23		P	25.0
7	☐			358.35		P	8.1
8	☐			863.94		P	11.7

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			504.46		P	6.5
2	☐			493.35		P	3.6
3	☐			483.35		P	8.0
4	☐			553.35		P	16.2
5	☐			577.80		P	4.8
6	☐			633.36		P	1.4
7	☐			698.92		P	3.5
8	☐			1156.72		P	2.9

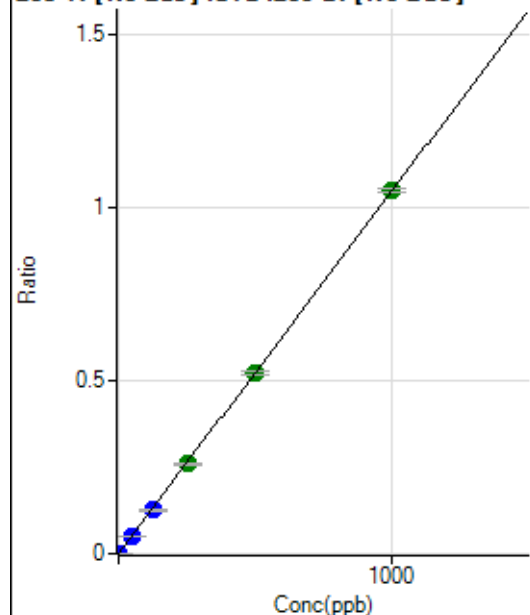
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			36.11		P	35.3
2	☐			66.67		P	45.1
3	☐			58.34		P	24.7
4	☐			94.45		P	28.4
5	☐			108.34		P	13.3
6	☐			188.90		P	20.8
7	☐			258.34		P	3.2
8	☐			86.11		P	40.3

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			31.11		P	22.3
2	☐			34.44		P	5.6
3	☐			50.00		P	24.0
4	☐			60.00		P	25.5
5	☐			64.44		P	25.5
6	☐			131.12		P	12.0
7	☐			147.78		P	21.9
8	☐			78.89		P	24.0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	133.34	0.0000	P	27.1
2	☐	1.000	0.917	9005.97	0.0010	P	1.9
3	☐	50.000	47.616	461664.70	0.0499	P	1.0
4	☐	125.000	119.637	1158503.63	0.1253	P	1.5
5	☐	250.000	247.219	2368476.98	0.2588	A	1.5
6	☐	500.000	499.255	4740322.41	0.5226	A	1.1
7	☐	1000.000	1001.857	9284217.05	1.0488	A	0.9
8	☐			3922.90	0.0005	P	3.0

$$y = 0.0010 * x + 1.4560E-005$$

$$R = 1.0000$$

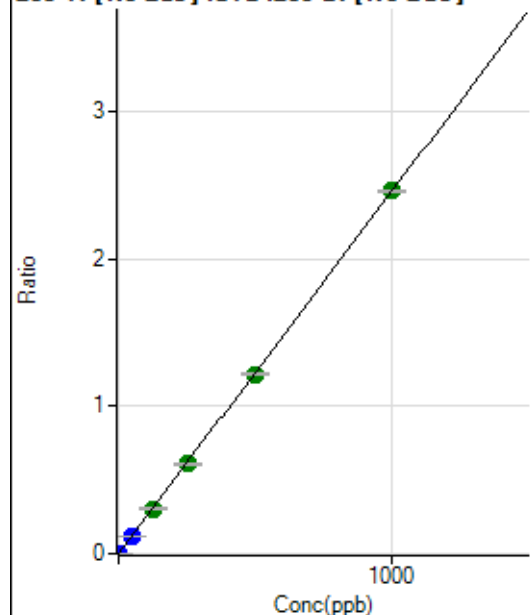
$$DL = 0.0113$$

$$BEC = 0.01391$$

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	311.13	0.0000	P	11.9
2	☐	1.000	0.935	21523.04	0.0023	P	2.9
3	☐	50.000	47.815	1087642.84	0.1175	P	1.1
4	☐	125.000	123.773	2811935.63	0.3040	A	2.1
5	☐	250.000	248.802	5591813.28	0.6111	A	2.3
6	☐	500.000	496.257	11054944.95	1.2188	A	0.9
7	☐	1000.000	1002.434	21795539.55	2.4620	A	0.5
8	☐			9345.16	0.0011	P	2.5

$$y = 0.0025 * x + 3.3976E-005$$

$$R = 1.0000$$

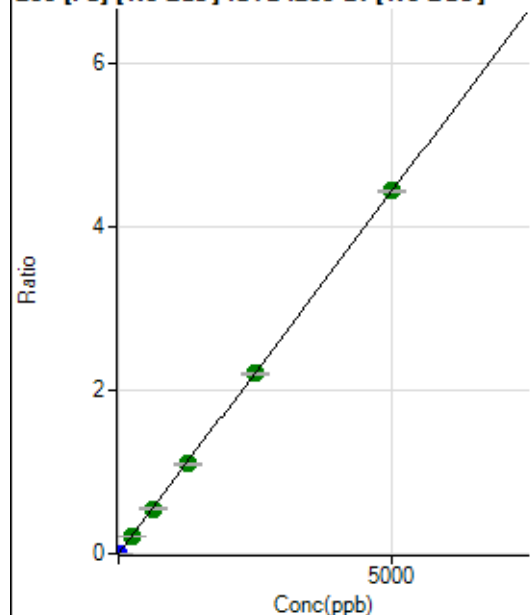
$$DL = 0.00492$$

$$BEC = 0.01383$$

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	400.01	0.0000	P	8.6
2	☐	1.000	0.880	7600.40	0.0008	P	3.9
3	☐	250.000	244.524	2004635.11	0.2165	A	1.8
4	☐	625.000	623.454	5104983.33	0.5519	A	0.7
5	☐	1250.000	1241.044	10053376.62	1.0986	A	1.3
6	☐	2500.000	2485.634	19957800.91	2.2003	A	0.9
7	☐	5000.000	5009.889	39261629.12	4.4348	A	0.5
8	☐			13964.79	0.0017	P	3.3

$$y = 8.8520\text{E-}004 * x + 4.3696\text{E-}005$$

$$R = 1.0000$$

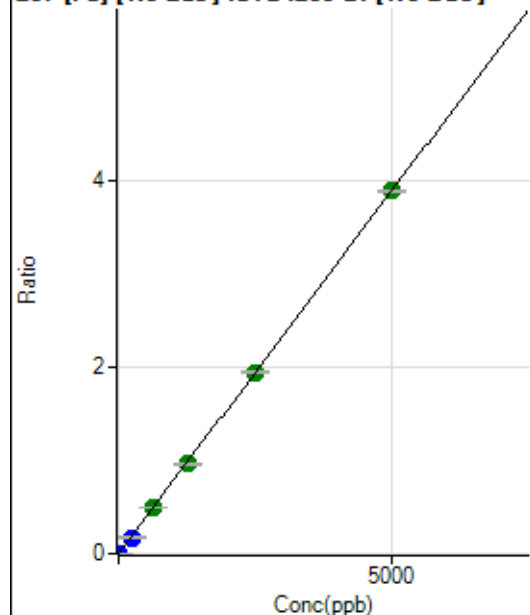
$$DL = 0.01279$$

$$BEC = 0.04936$$

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	327.79	0.0000	P	8.8
2	☐	1.000	0.863	6542.45	0.0007	P	3.1
3	☐	250.000	225.219	1625189.11	0.1755	P	1.7
4	☐	625.000	625.792	4510187.02	0.4876	A	0.6
5	☐	1250.000	1239.253	8836506.39	0.9656	A	1.6
6	☐	2500.000	2501.682	17680630.60	1.9492	A	0.7
7	☐	5000.000	5002.986	34509021.60	3.8982	A	0.8
8	☐			11581.08	0.0014	P	3.0

$$y = 7.7916\text{E-}004 * x + 3.5798\text{E-}005$$

$$R = 1.0000$$

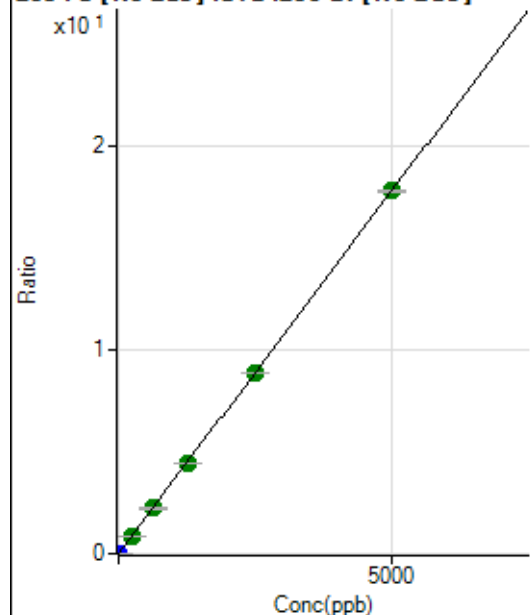
$$DL = 0.01212$$

$$BEC = 0.04594$$

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	1631.55	0.0002	P	3.2
2	☐	1.000	0.861	29909.60	0.0032	P	1.4
3	☐	250.000	242.277	7978541.37	0.8617	A	1.7
4	☐	625.000	625.326	20568061.11	2.2237	A	0.7
5	☐	1250.000	1242.386	40428496.45	4.4179	A	1.2
6	☐	2500.000	2496.531	80522852.84	8.8774	A	0.5
7	☐	5000.000	5003.984	157521335.92	17.7935	A	0.7
8	☐			55145.88	0.0068	P	2.5

$$y = 0.0036 * x + 1.7820E-004$$

$$R = 1.0000$$

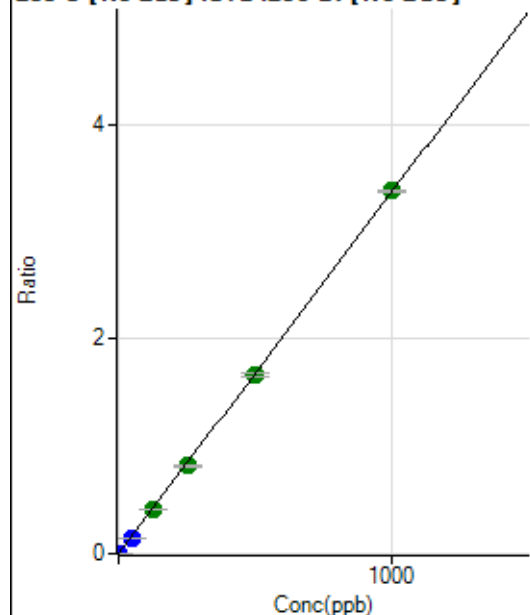
$$DL = 0.004829$$

$$BEC = 0.05011$$

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	111.11	0.0000	P	28.5
2	☐	1.000	0.838	26193.69	0.0028	P	4.2
3	☐	50.000	42.963	1339928.06	0.1447	P	1.9
4	☐	125.000	122.078	3802905.84	0.4112	A	2.3
5	☐	250.000	243.840	7515163.45	0.8212	A	1.7
6	☐	500.000	495.848	15147175.17	1.6700	A	1.8
7	☐	1000.000	1004.333	29947274.28	3.3825	A	0.4
8	☐			6529.74	0.0008	P	6.0

$$y = 0.0034 * x + 1.2138E-005$$

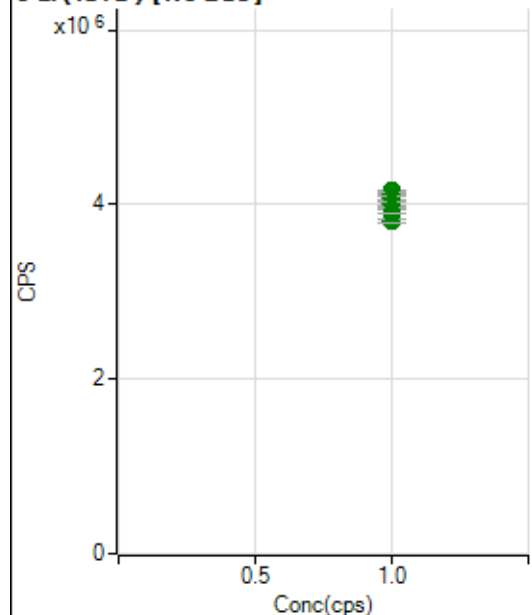
$$R = 1.0000$$

$$DL = 0.003077$$

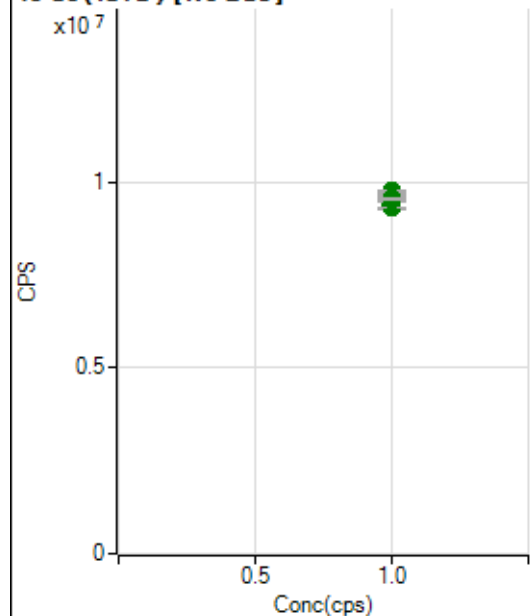
$$BEC = 0.003604$$

Weight: <None>

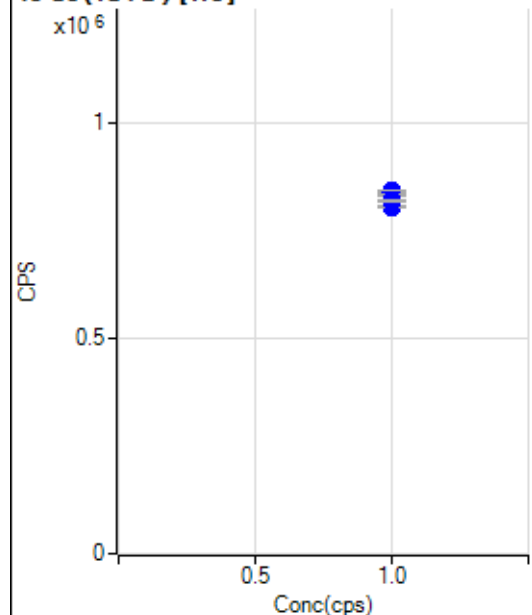
Min Conc: 0

6 Li (ISTD) [No Gas]

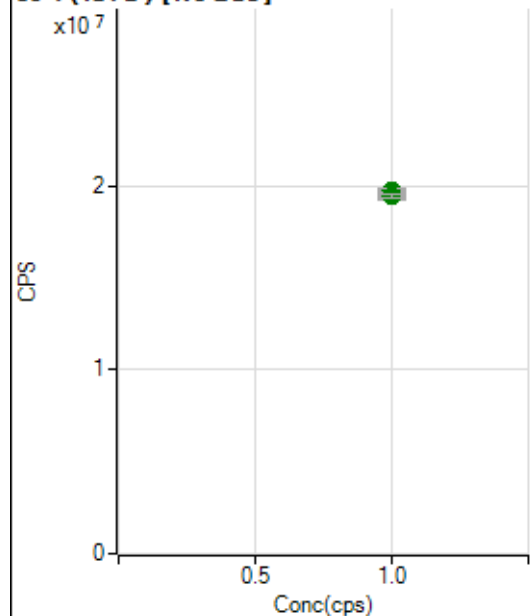
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		4130064.76		A	0.9
2	☐	1.000		4156849.80		A	0.6
3	☐	1.000		4116972.30		A	1.2
4	☐	1.000		4079119.73		A	0.9
5	☐	1.000		4005896.68		A	1.0
6	☐	1.000		3952237.41		A	0.7
7	☐	1.000		3811287.58		A	0.8
8	☐	1.000		3901260.22		A	0.3

45 Sc (ISTD) [No Gas]

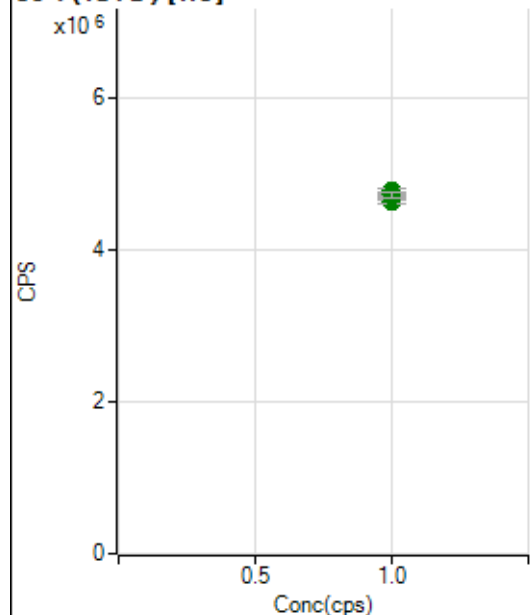
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		9515122.71		A	0.8
2	☐	1.000		9657748.05		A	0.6
3	☐	1.000		9753986.73		A	0.8
4	☐	1.000		9582324.65		A	0.7
5	☐	1.000		9283284.51		A	0.5
6	☐	1.000		9375370.55		A	2.0
7	☐	1.000		9426998.06		A	2.1
8	☐	1.000		9531799.58		A	0.8

45 Sc (ISTD) [He]

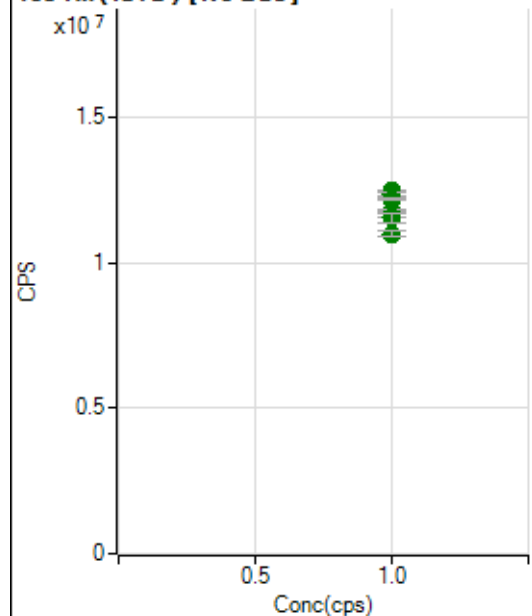
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		830808.27		P	0.4
2	☐	1.000		842098.12		P	0.4
3	☐	1.000		838993.08		P	0.9
4	☐	1.000		816765.64		P	0.4
5	☐	1.000		805205.16		P	0.2
6	☐	1.000		820733.79		P	0.5
7	☐	1.000		818442.25		P	0.6
8	☐	1.000		819257.37		P	0.5

89 Y (ISTD) [No Gas]

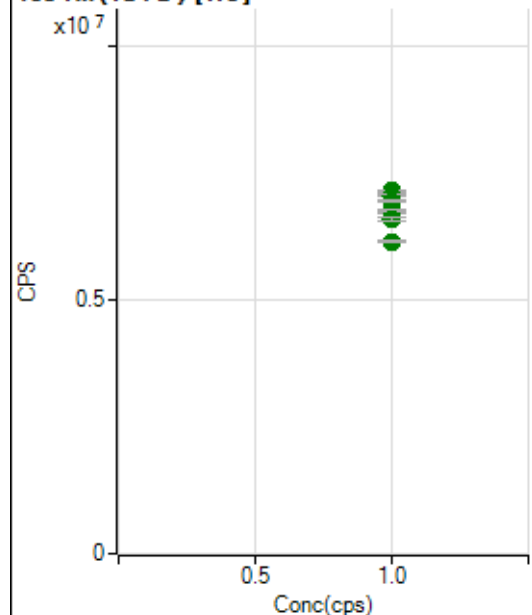
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		19520231.93		A	0.5
2	☐	1.000		19675763.87		A	0.7
3	☐	1.000		19723246.10		A	1.7
4	☐	1.000		19549477.62		A	0.5
5	☐	1.000		19441330.27		A	0.8
6	☐	1.000		19591699.71		A	2.4
7	☐	1.000		19429299.43		A	1.6
8	☐	1.000		19432315.13		A	1.2

89 Y(ISTD) [He]

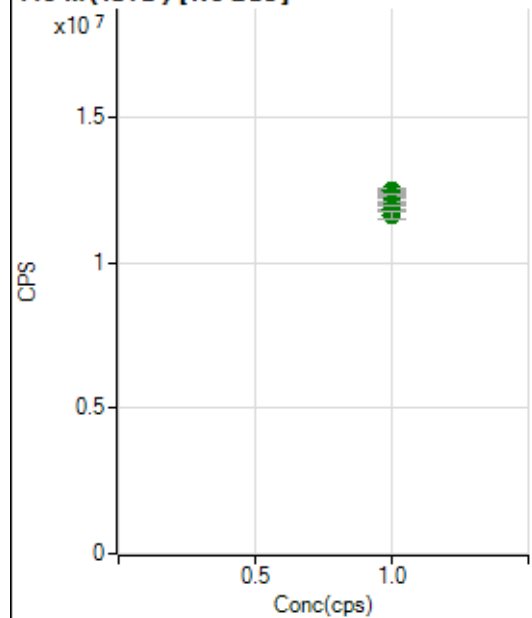
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		4775882.74		A	1.4
2	☐	1.000		4742653.89		A	0.6
3	☐	1.000		4760352.36		A	2.2
4	☐	1.000		4688053.02		A	0.3
5	☐	1.000		4632490.35		A	1.3
6	☐	1.000		4706724.20		A	0.2
7	☐	1.000		4720776.63		A	0.3
8	☐	1.000		4724433.65		A	1.6

103 Rh(ISTD) [No Gas]

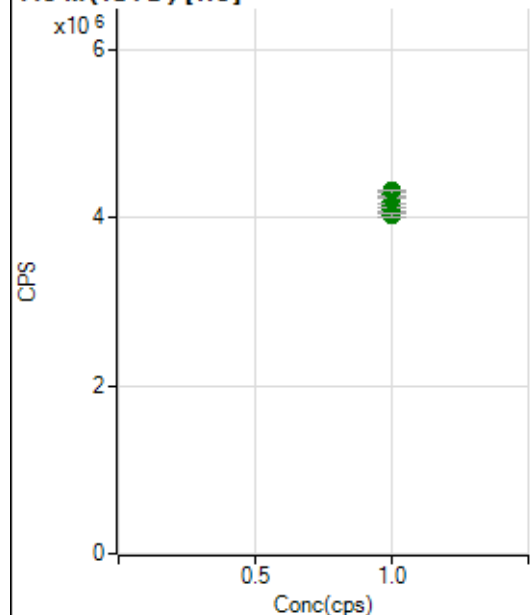
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		12320853.15		A	0.1
2	☐	1.000		12488799.81		A	0.3
3	☐	1.000		12397156.34		A	0.9
4	☐	1.000		12208307.73		A	0.3
5	☐	1.000		11808802.32		A	0.1
6	☐	1.000		11722358.16		A	2.2
7	☐	1.000		11570441.91		A	2.7
8	☐	1.000		11010697.89		A	2.0

103 Rh (ISTD) [He]

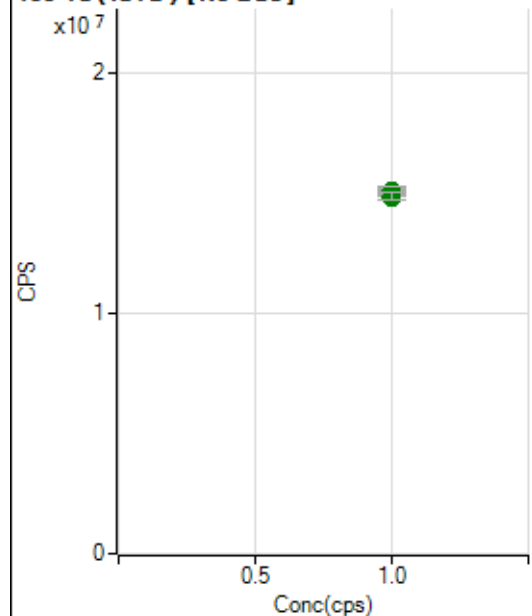
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		7071196.35		A	0.5
2	☐	1.000		7137861.56		A	0.4
3	☐	1.000		7023508.99		A	1.3
4	☐	1.000		6936351.35		A	0.6
5	☐	1.000		6750122.89		A	1.1
6	☐	1.000		6745642.95		A	0.6
7	☐	1.000		6595036.85		A	1.2
8	☐	1.000		6145299.91		A	0.4

115 In (ISTD) [No Gas]

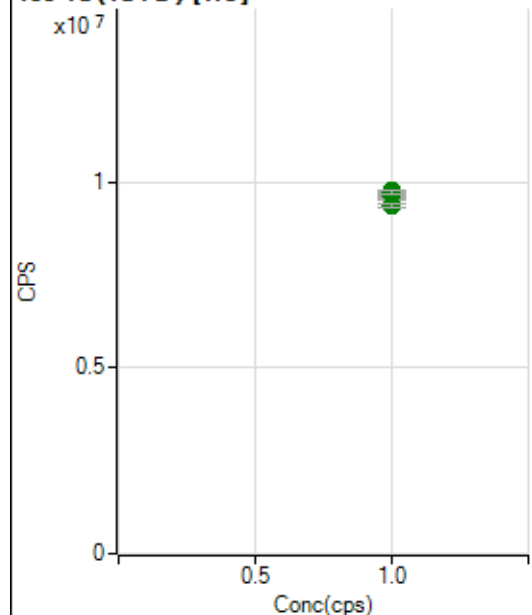
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		12257305.59		A	0.7
2	☐	1.000		12444325.24		A	0.6
3	☐	1.000		12465920.63		A	1.0
4	☐	1.000		12310616.21		A	0.7
5	☐	1.000		12056005.20		A	1.0
6	☐	1.000		11958916.45		A	2.5
7	☐	1.000		11857111.61		A	1.9
8	☐	1.000		11617864.15		A	2.3

115 In (ISTD) [He]

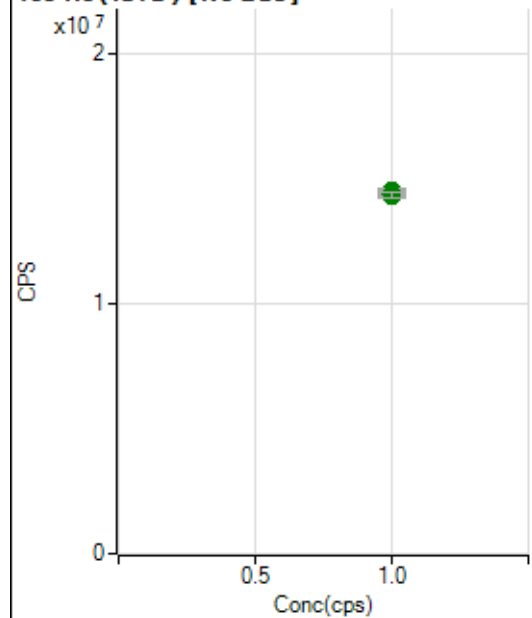
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		4303628.39		A	0.5
2	☐	1.000		4318239.46		A	0.6
3	☐	1.000		4284596.39		A	1.5
4	☐	1.000		4199716.15		A	1.5
5	☐	1.000		4101982.22		A	1.0
6	☐	1.000		4135119.45		A	1.0
7	☐	1.000		4096449.60		A	0.6
8	☐	1.000		4022182.40		A	1.3

159 Tb (ISTD) [No Gas]

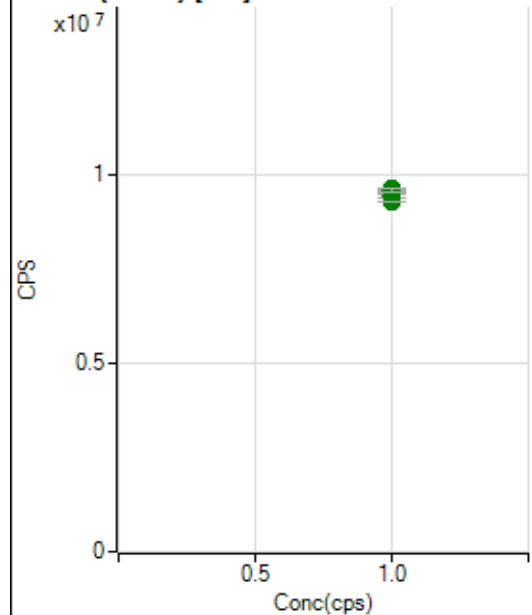
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		14760574.36		A	1.2
2	☐	1.000		15074300.75		A	0.4
3	☐	1.000		15075940.61		A	1.9
4	☐	1.000		15036508.94		A	0.9
5	☐	1.000		14996069.36		A	2.0
6	☐	1.000		15066533.11		A	2.1
7	☐	1.000		14873900.06		A	2.1
8	☐	1.000		14859441.44		A	2.4

159 Tb (ISTD) [He]

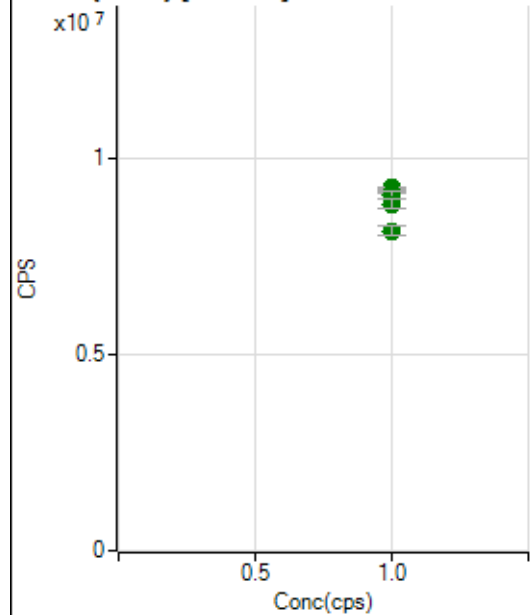
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		9681258.33		A	1.9
2	☐	1.000		9706876.39		A	0.6
3	☐	1.000		9708472.49		A	1.2
4	☐	1.000		9589808.05		A	0.4
5	☐	1.000		9613104.09		A	1.4
6	☐	1.000		9769353.88		A	0.8
7	☐	1.000		9720032.77		A	0.9
8	☐	1.000		9367882.71		A	0.7

165 Ho (ISTD) [No Gas]

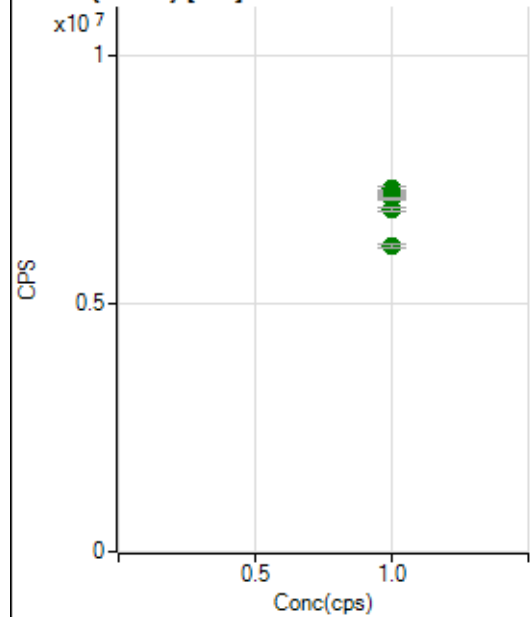
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		14297484.93		A	0.6
2	☐	1.000		14371589.37		A	0.6
3	☐	1.000		14436479.51		A	0.3
4	☐	1.000		14513532.15		A	0.6
5	☐	1.000		14451221.73		A	1.3
6	☐	1.000		14467323.68		A	2.2
7	☐	1.000		14478665.89		A	1.4
8	☐	1.000		14372338.95		A	1.7

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		9453843.61		A	1.3
2	☐	1.000		9622347.77		A	0.7
3	☐	1.000		9560513.75		A	1.4
4	☐	1.000		9570547.15		A	0.3
5	☐	1.000		9443250.83		A	1.7
6	☐	1.000		9593009.86		A	1.3
7	☐	1.000		9591719.93		A	1.0
8	☐	1.000		9284653.20		A	0.2

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		9155587.15		A	0.3
2	☐	1.000		9237031.39		A	0.6
3	☐	1.000		9258842.50		A	0.7
4	☐	1.000		9249303.61		A	0.5
5	☐	1.000		9151390.21		A	0.6
6	☐	1.000		9070923.96		A	1.9
7	☐	1.000		8853632.78		A	2.4
8	☐	1.000		8162258.14		A	3.2

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7248167.25		A	0.2
2	☐	1.000		7320780.44		A	1.1
3	☐	1.000		7272489.68		A	0.8
4	☐	1.000		7211011.07		A	0.2
5	☐	1.000		7130232.74		A	1.1
6	☐	1.000		7127381.42		A	0.6
7	☐	1.000		6920898.58		A	1.1
8	☐	1.000		6173248.52		A	1.2

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7100422MS.b
Acq. Date-Time 2022-10-04 12:36:05
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		11823	118226.72			0.394	5.000
24		136243	1362429.87			0.735	5.000
25		18682	186818.40			0.369	5.000
26		21772	217721.38			0.216	5.000
59		111259	1112591.80			0.496	5.000
113		11049	110487.90			0.853	5.000
115		138852	1388521.88			0.693	5.000
206		29507	295067.61			1.008	5.000
207		27237	272366.14			0.722	5.000
208		63809	638090.01			0.625	5.000
220		0	4.00			25.000	

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

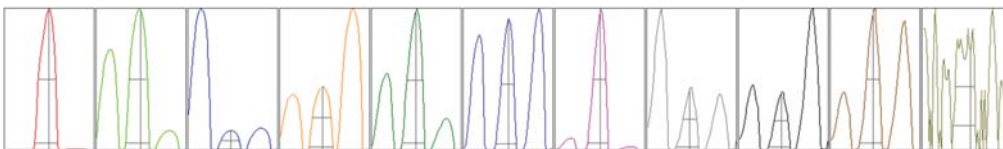
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	11887	11828	11844	11781	11774
24	135850	137031	134740	137224	136369
25	18661	18578	18723	18689	18759
26	21718	21723	21805	21811	21803
59	111368	111435	110525	110966	112002
113	11172	11101	11016	11034	10921
115	140283	138857	139017	138466	137638
206	29827	29438	29490	29721	29059
207	27494	27152	27135	27386	27016
208	63937	64160	63323	64174	63452

US EPA Tune Check Report

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
220	0	0	1	0	0

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	21910.32	9.00	8.90 - 9.10	
24	233975.18	24.00	23.90 - 24.10	
25	31834.65	24.95	24.90 - 25.10	
26	36505.83	25.95	25.90 - 26.10	
59	219695.00	59.00	58.90 - 59.10	
113	25977.61	113.05	112.90 - 113.10	
115	327226.38	115.05	114.90 - 115.10	
206	64942.75	205.95	205.90 - 206.10	
207	59338.62	206.95	206.90 - 207.10	
208	143736.62	207.95	207.90 - 208.10	
220	0.50	220.15	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.58	0.771	0.900	
24	0.61	0.788	0.900	
25	0.61	0.786	0.900	
26	0.63	0.790	0.900	
59	0.52	0.760	0.900	
113	0.43	0.691	0.900	
115	0.43	0.693	0.900	
206	0.46	0.755	0.900	
207	0.46	0.732	0.900	
208	0.44	0.757	0.900	
220	0.65	0.747		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode ---

Nebulizer Gas 0.78 L/min

Dilution Gas 0.40 L/min

US EPA Tune Check Report

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

Lens Parameters

Extract 1	0.0 V	Omega Lens	9.6 V	Deflect	15.6 V
Extract 2	-140.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-70 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	200 V		

QP Parameters

Mass Gain	123	Axis Gain	1.0001	QP Bias	-3.0 V
Mass Offset	125	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	-0.6 mm	Torch V	0.5 mm
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EM

Discriminator	3.2 mV	Analog HV	2213 V	Pulse HV	1411 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		37117	371168.87			0.454	
89		55877	558772.45			0.505	
205		45404	454044.64			0.759	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	37238	37104	37135	37266	36841
89	55924	55761	56233	55995	55474
205	45141	44968	45822	45567	45523

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.78 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	11.3 V	Deflect	3.4 V
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US EPA Tune Check Report

Extract 2	-175.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-90 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	1.0001	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	-0.6 mm	Torch V	0.5 mm
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EM

Discriminator	3.2 mV	Analog HV	2213 V	Pulse HV	1411 V
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