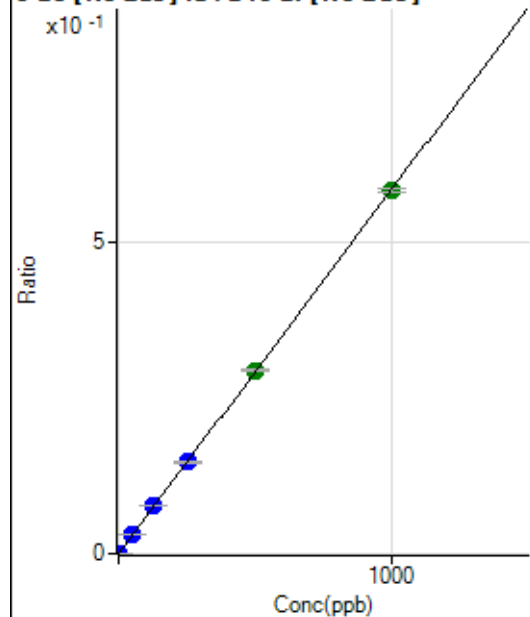


Calibration for 008CAL.S.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P7100522MS.b\
 Analysis File: P7100522MS.batch.bin
 DA Date-Time: 2022-10-05 16:54:23
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2022-10-05 12:08:04
2	005CAL.S.d	S02	2022-10-05 12:10:55
3	006CAL.S.d	S03	2022-10-05 12:13:48
4	007CAL.S.d	S04	2022-10-05 12:16:32
5	008CAL.S.d	S05	2022-10-05 12:19:18
6	009CAL.S.d	S06	2022-10-05 12:22:01
7	010CAL.S.d	S07	2022-10-05 12:24:48
8	011CAL.S.d	S08	2022-10-05 12:27:32

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	73.33	0.0000	P	32.0
2	☐	1.000	1.088	3002.55	0.0007	P	2.9
3	☐	50.000	53.629	138442.39	0.0314	P	2.6
4	☐	125.000	132.155	344113.61	0.0773	P	0.6
5	☐	250.000	253.467	666553.98	0.1482	P	2.1
6	☐	500.000	502.809	1316712.79	0.2939	A	1.2
7	☐	1000.000	996.653	2497747.93	0.5826	A	1.2
8	☐			963.37	0.0002	P	5.9

$$y = 5.8452\text{E-}004 * x + 1.5785\text{E-}005$$

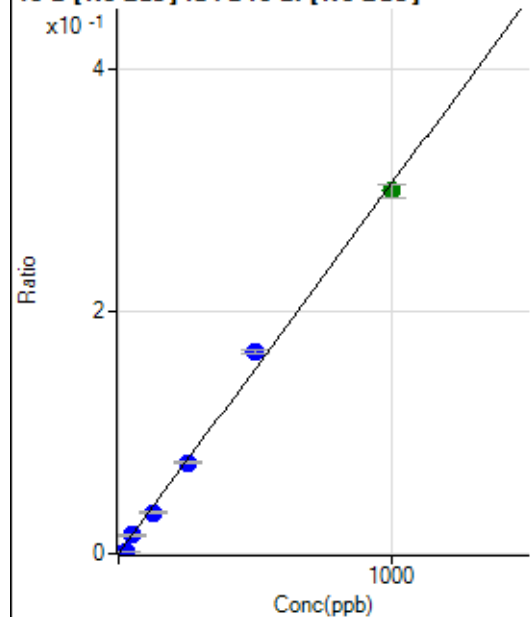
$$R = 1.0000$$

$$DL = 0.02589$$

$$BEC = 0.027$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	491.69	0.0001	P	22.1
2	☐	25.000	6.114	9063.95	0.0020	P	2.9
3	☐	50.000	49.187	66624.09	0.0151	P	1.8
4	☐	125.000	111.332	151561.63	0.0340	P	2.3
5	☐	250.000	244.660	335795.59	0.0746	P	2.5
6	☐	500.000	545.388	744835.73	0.1662	P	2.5
7	☐	1000.000	980.862	1281684.23	0.2989	A	3.7
8	☐			27630.78	0.0067	P	14.4

$$y = 3.0462\text{E-}004 * x + 1.0575\text{E-}004$$

$$R = 0.9981$$

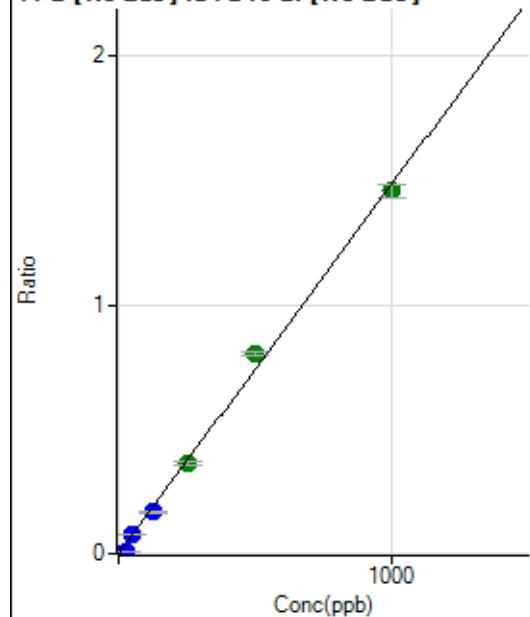
$$DL = 0.2306$$

$$BEC = 0.3472$$

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	2080.75	0.0004	P	4.4
2	☐	25.000	6.273	44879.49	0.0097	P	6.4
3	☐	50.000	50.081	330021.47	0.0747	P	2.2
4	☐	125.000	111.996	741458.67	0.1664	P	1.7
5	☐	250.000	243.488	1625870.87	0.3613	A	3.4
6	☐	500.000	541.919	3600856.94	0.8037	A	2.6
7	☐	1000.000	982.758	6248127.22	1.4571	A	3.9
8	☐			132265.46	0.0320	P	15.2

$$y = 0.0015 * x + 4.4771E-004$$

$$R = 0.9984$$

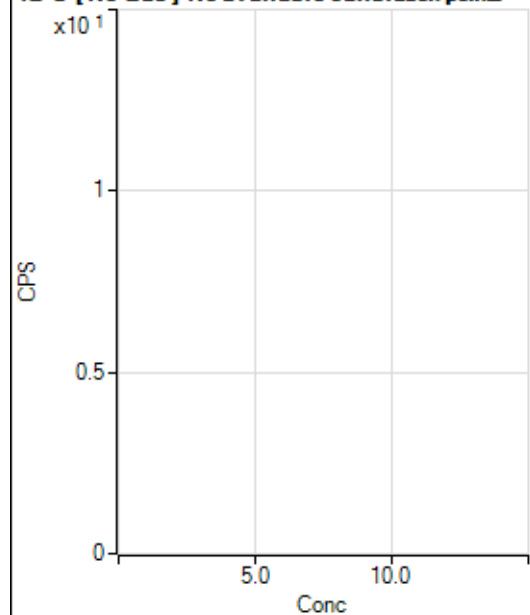
$$DL = 0.03992$$

$$BEC = 0.3021$$

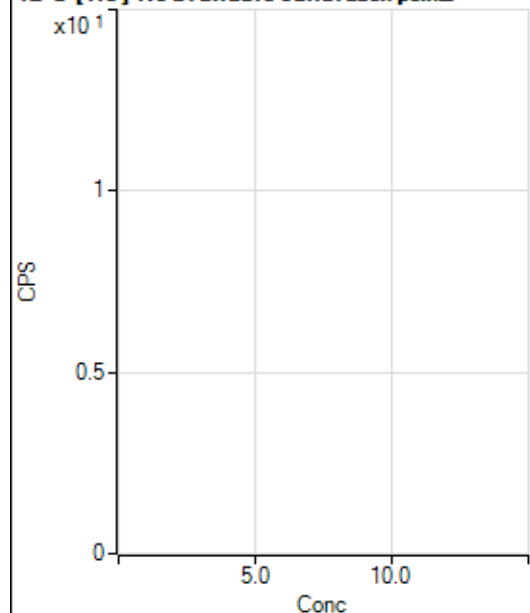
Weight: <None>

Min Conc: 0

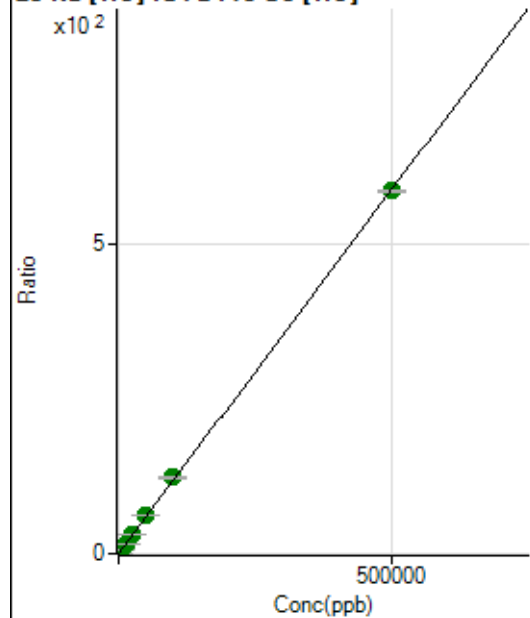
12 C [No Gas] No available calibration points



	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	37052.08	0.0412	P	0.7
2	☐	500.000	515.515	583450.27	0.6463	P	0.7
3	☐	5000.000	5380.014	5678081.78	6.3565	A	0.8
4	☐	12500.000	13585.083	13992483.53	15.9881	A	0.4
5	☐	25000.000	26704.029	27301474.45	31.3878	A	0.7
6	☐	50000.000	53330.260	54419847.97	62.6430	A	0.6
7	☐	100000.00	104574.15	107997948.71	122.7958	A	0.9
8	☐	500000.00	498635.99	512341970.71	585.3662	A	0.7

$$y = 0.0012 * x + 0.0412$$

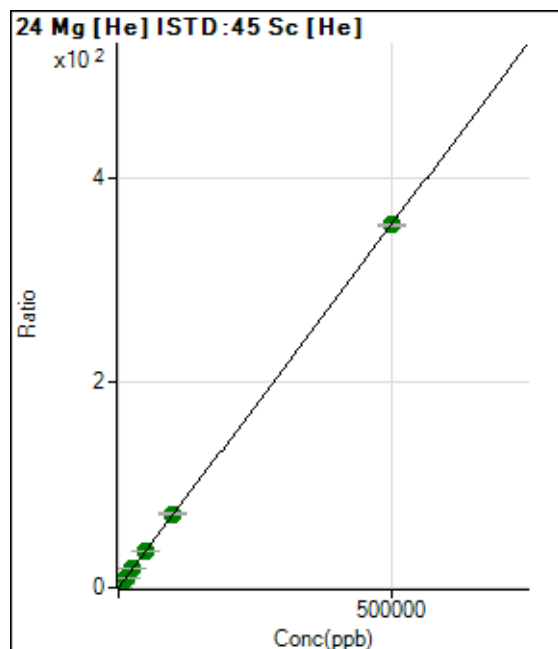
$$R = 0.9999$$

$$DL = 0.7412$$

$$BEC = 35.1$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	531.50	0.0006	P	2.6
2	☐	500.000	523.944	335600.52	0.3718	P	0.9
3	☐	5000.000	5200.596	3291693.19	3.6850	A	0.2
4	☐	12500.000	13081.275	8111353.54	9.2681	A	1.0
5	☐	25000.000	25640.514	15801015.75	18.1658	A	1.5
6	☐	50000.000	50843.789	31293181.26	36.0212	A	0.6
7	☐	100000.00	101679.69	63359277.80	72.0362	A	1.3
8	☐	500000.00	499531.09	309753932.85	353.8967	A	0.3

$$y = 7.0846\text{E-}004 * x + 5.9093\text{E-}004$$

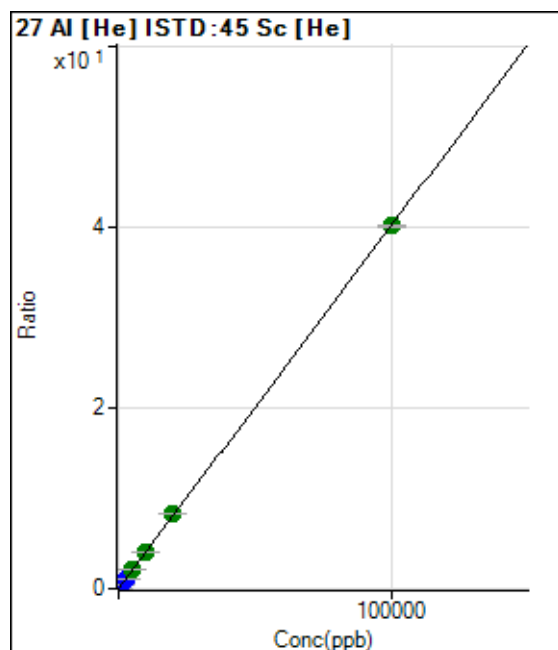
$$R = 1.0000$$

$$DL = 0.06595$$

$$BEC = 0.8341$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	659.28	0.0007	P	21.5
2	☐	20.000	20.426	8070.77	0.0089	P	1.2
3	☐	1000.000	1100.401	395612.81	0.4429	P	0.5
4	☐	2500.000	2796.320	983978.69	1.1243	P	0.3
5	☐	5000.000	5394.829	1886106.81	2.1684	A	0.4
6	☐	10000.000	10251.374	3579154.39	4.1198	A	0.8
7	☐	20000.000	20518.103	7251676.90	8.2451	A	0.4
8	☐	100000.00	99843.089	35115059.12	40.1184	A	0.5

$$y = 4.0181\text{E-}004 * x + 7.3321\text{E-}004$$

$$R = 1.0000$$

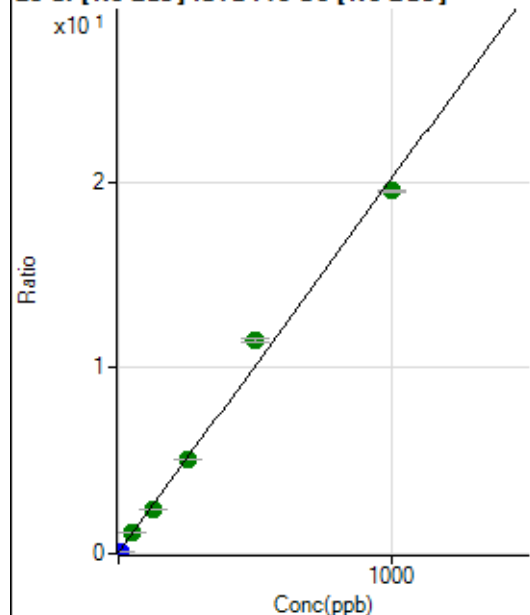
$$DL = 1.176$$

$$BEC = 1.825$$

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	684016.12	0.0666	P	0.7
2	☐	10.000	0.429	775367.44	0.0753	P	1.0
3	☐	50.000	53.660	11013522.90	1.1465	A	5.6
4	☐	125.000	114.043	22622793.56	2.3617	A	1.6
5	☐	250.000	247.547	50004913.96	5.0485	A	0.4
6	☐	500.000	568.751	113918151.16	11.5126	A	1.8
7	☐	1000.000	967.520	192076777.90	19.5377	A	0.8
8	☐			3023331.39	0.3134	A	10.9

$$y = 0.0201 * x + 0.0666$$

$$R = 0.9962$$

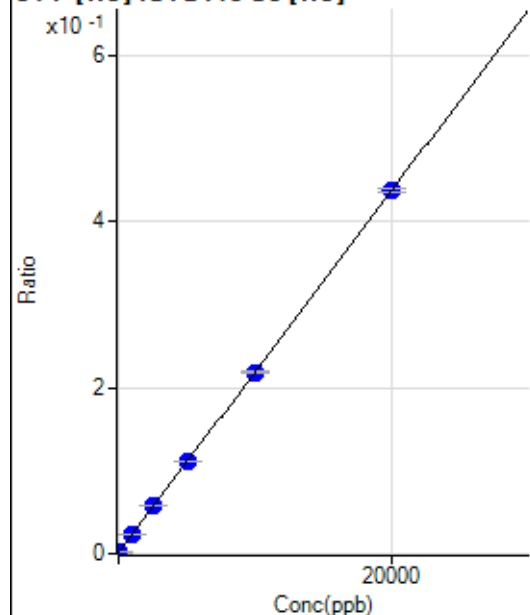
$$DL = 0.06651$$

$$BEC = 3.312$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-9.036	1011.17	0.0011	P	2.3
2	☐	0.000	9.036	1369.54	0.0015	P	17.5
3	☐	1000.000	1008.988	20792.31	0.0233	P	2.3
4	☐	2500.000	2614.598	50948.93	0.0582	P	1.2
5	☐	5000.000	5067.290	97060.55	0.1116	P	0.9
6	☐	10000.000	9943.231	189122.82	0.2177	P	0.9
7	☐	20000.000	19996.788	383880.84	0.4365	P	0.9
8	☐			1208.41	0.0014	P	7.5

$$y = 2.1760E-005 * x + 0.0013$$

$$R = 1.0000$$

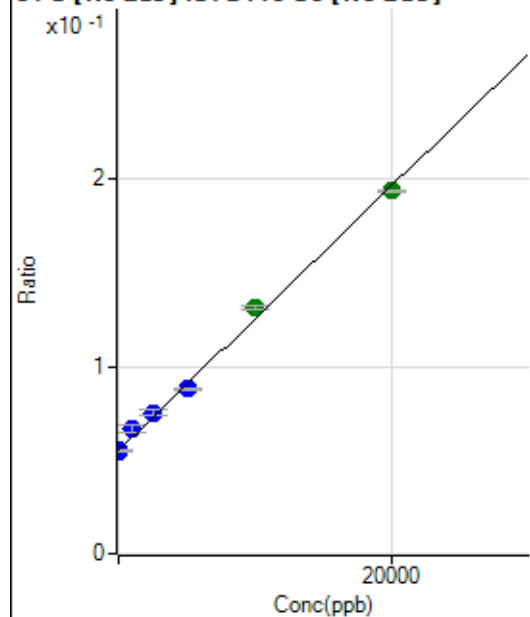
$$DL = 20.02$$

$$BEC = 60.7$$

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	30.817	567374.60	0.0553	P	0.9
2	☐	0.000	-30.817	564865.85	0.0549	P	1.4
3	☐	1000.000	1589.774	636601.53	0.0663	P	6.2
4	☐	2500.000	2853.137	720003.28	0.0752	P	4.0
5	☐	5000.000	4651.955	870554.95	0.0879	P	1.5
6	☐	10000.000	10790.467	1298534.89	0.1312	A	1.4
7	☐	20000.000	19618.147	1902753.88	0.1935	A	0.4
8	☐			500135.48	0.0519	P	1.5

$$y = 7.0588\text{E-}006 * x + 0.0551$$

R = 0.9982

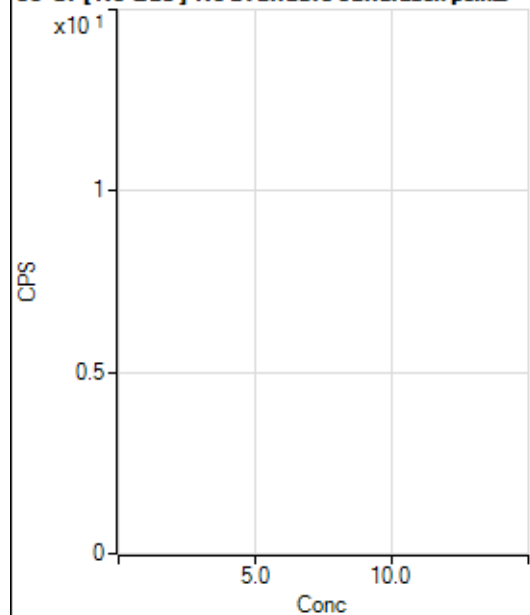
DL = 267.3

BEC = 7801

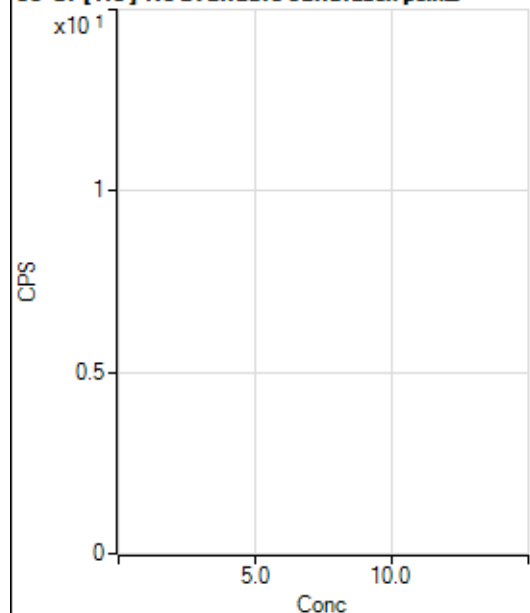
Weight: <None>

Min Conc: 0

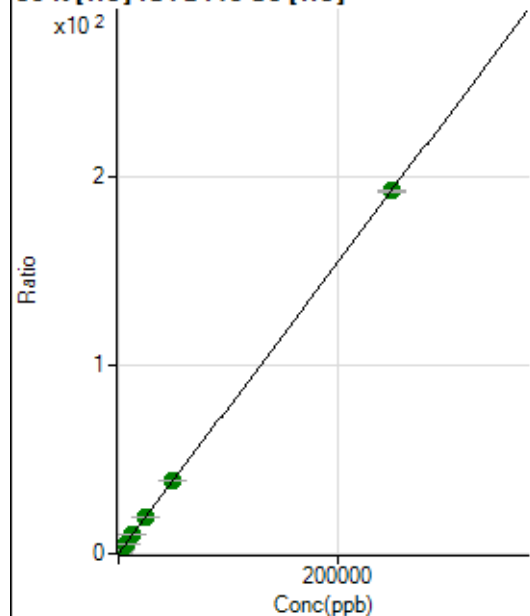
35 Cl [No Gas] No available calibration points



	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	124450.67	0.1384	P	0.6
2	☐	500.000	529.730	492798.24	0.5459	P	0.5
3	☐	2500.000	2533.040	1864330.77	2.0871	A	1.1
4	☐	6250.000	6358.511	4402196.97	5.0301	A	0.5
5	☐	12500.000	12572.889	8533687.78	9.8109	A	0.8
6	☐	25000.000	24945.044	16792819.13	19.3291	A	1.2
7	☐	50000.000	50309.127	34163028.54	38.8421	A	0.9
8	☐	250000.00	249936.92	168416510.71	192.4193	A	0.3

$$y = 7.6932E-004 * x + 0.1384$$

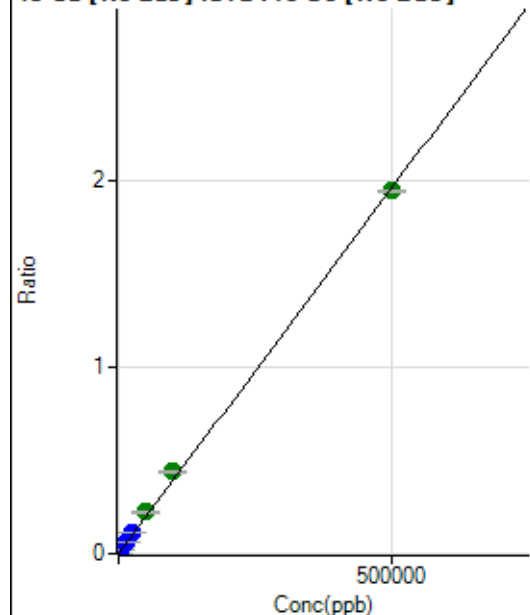
$$R = 1.0000$$

$$DL = 3.487$$

$$BEC = 179.9$$

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	272.23	0.0000	P	23.8
2	☐	500.000	509.887	20870.38	0.0020	P	1.9
3	☐	5000.000	6375.683	240457.82	0.0250	P	5.6
4	☐	12500.000	15683.195	589532.58	0.0615	P	0.9
5	☐	25000.000	29407.553	1142786.28	0.1154	P	0.7
6	☐	50000.000	56636.543	2198296.06	0.2222	A	2.9
7	☐	100000.00	112003.96	4318953.92	0.4393	A	0.5
8	☐	500000.00	496621.82	18761075.24	1.9478	A	0.2

$$y = 3.9220\text{E-}006 * x + 2.6555\text{E-}005$$

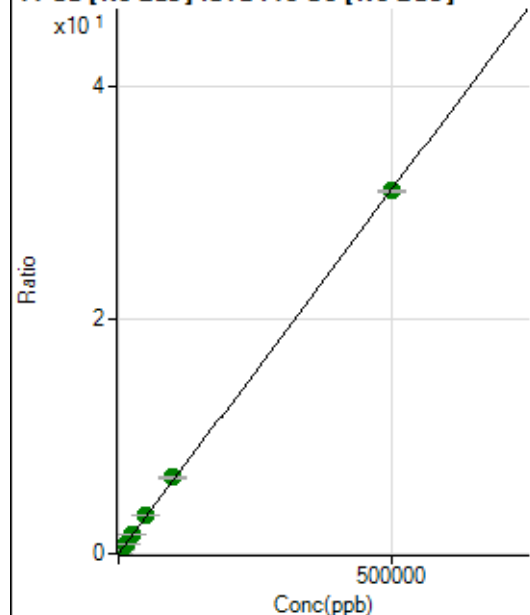
$$R = 0.9997$$

$$DL = 4.838$$

$$BEC = 6.771$$

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	13523.30	0.0013	P	3.4
2	☐	500.000	508.632	339687.24	0.0330	P	1.7
3	☐	5000.000	5747.552	3449510.08	0.3592	A	5.9
4	☐	12500.000	14068.756	8402456.44	0.8772	A	1.7
5	☐	25000.000	26433.668	16316001.93	1.6470	A	0.7
6	☐	50000.000	52377.086	32280867.04	3.2622	A	2.7
7	☐	100000.00	105017.29	64296055.60	6.5395	A	1.3
8	☐	500000.00	498640.44	299001101.13	31.0459	A	0.7

$$y = 6.2259\text{E-}005 * x + 0.0013$$

$$R = 0.9999$$

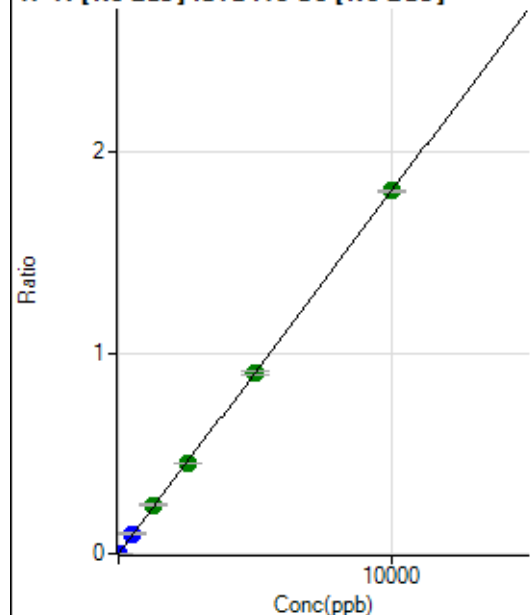
$$DL = 2.139$$

$$BEC = 21.16$$

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	211.12	0.0000	P	11.6
2	☐	5.000	4.960	9439.28	0.0009	P	3.6
3	☐	500.000	547.671	950652.11	0.0990	P	5.8
4	☐	1250.000	1339.345	2317802.20	0.2420	A	2.4
5	☐	2500.000	2486.537	4450499.53	0.4493	A	0.2
6	☐	5000.000	4974.309	8893594.47	0.8988	A	2.0
7	☐	10000.000	10002.659	17767989.29	1.8073	A	0.5
8	☐			3558.84	0.0004	P	4.0

$$y = 1.8068E-004 * x + 2.0565E-005$$

$$R = 0.9999$$

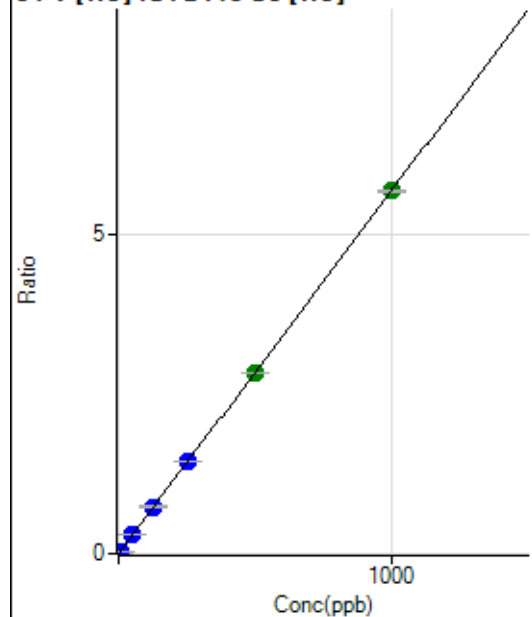
$$DL = 0.03966$$

$$BEC = 0.1138$$

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	22.22	0.0000	P	16.9
2	☐	5.000	5.049	25865.59	0.0287	P	0.5
3	☐	50.000	51.320	259962.94	0.2910	P	0.2
4	☐	125.000	129.612	643212.23	0.7350	P	0.5
5	☐	250.000	253.692	1251235.31	1.4385	P	0.8
6	☐	500.000	497.495	2450625.14	2.8209	A	0.7
7	☐	1000.000	999.687	4985523.64	5.6685	A	0.8
8	☐			4495.16	0.0051	P	0.5

$$y = 0.0057 * x + 2.4699E-005$$

$$R = 1.0000$$

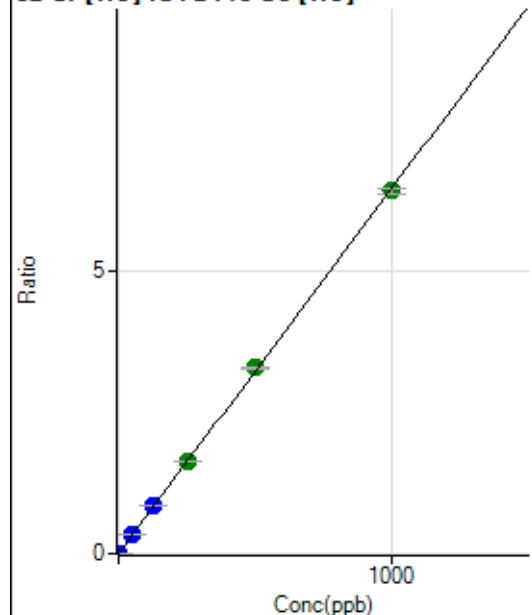
$$DL = 0.002203$$

$$BEC = 0.004356$$

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	2260.19	0.0025	P	2.7
2	☐	2.000	2.056	14210.10	0.0157	P	1.1
3	☐	50.000	52.468	303796.27	0.3401	P	0.2
4	☐	125.000	132.590	748802.51	0.8556	P	0.0
5	☐	250.000	252.681	1416295.36	1.6283	A	0.8
6	☐	500.000	508.384	2843842.42	3.2735	A	0.4
7	☐	1000.000	994.066	5627332.55	6.3984	A	1.2
8	☐			17967.44	0.0205	P	1.4

$$y = 0.0064 * x + 0.0025$$

$$R = 0.9999$$

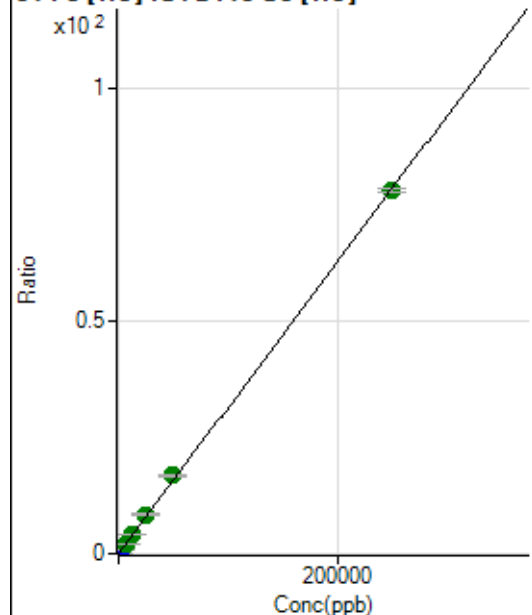
$$DL = 0.03211$$

$$BEC = 0.3906$$

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	2693.03	0.0030	P	6.6
2	☐	50.000	57.203	18867.79	0.0209	P	0.8
3	☐	2500.000	2891.072	811130.54	0.9080	P	0.8
4	☐	6250.000	6948.719	1906376.60	2.1783	A	1.2
5	☐	12500.000	13696.353	3732032.50	4.2907	A	1.1
6	☐	25000.000	27036.992	7355640.07	8.4670	A	0.3
7	☐	50000.000	53553.420	14747386.35	16.7680	A	1.4
8	☐	250000.00	249004.41	68227415.01	77.9543	A	1.1

$$y = 3.1305E-004 * x + 0.0030$$

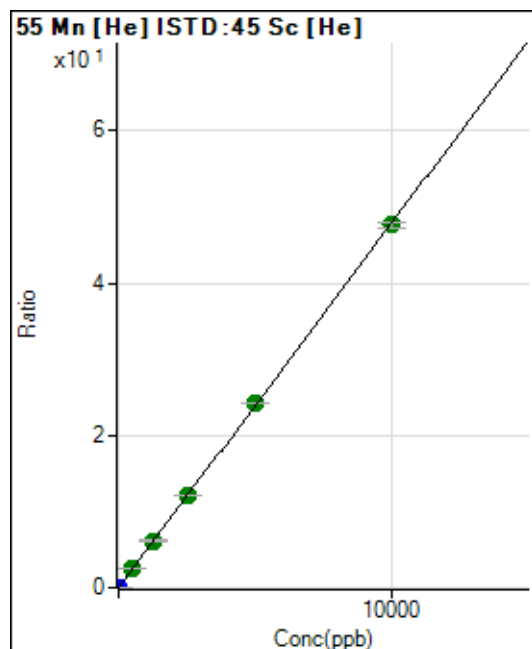
$$R = 0.9999$$

$$DL = 1.907$$

$$BEC = 9.564$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	576.68	0.0006	P	11.7
2	☐	1.000	1.071	5200.94	0.0058	P	3.8
3	☐	500.000	513.167	2193348.80	2.4554	A	1.0
4	☐	1250.000	1291.083	5405594.99	6.1766	A	0.7
5	☐	2500.000	2528.378	10520634.91	12.0953	A	0.4
6	☐	5000.000	5064.422	21047053.85	24.2265	A	0.3
7	☐	10000.000	9954.901	41881432.99	47.6204	A	1.7
8	☐			31282.52	0.0357	P	0.3

$$y = 0.0048 * x + 6.4093E-004$$

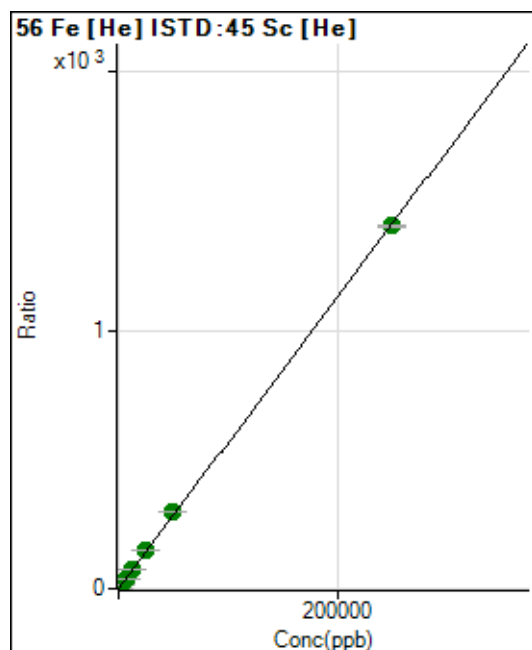
$$R = 1.0000$$

$$DL = 0.04695$$

$$BEC = 0.134$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	19466.52	0.0216	P	0.9
2	☐	50.000	54.503	296794.36	0.3288	P	0.3
3	☐	2500.000	2732.217	13772508.64	15.4181	A	0.3
4	☐	6250.000	6829.297	33699263.95	38.5058	A	0.4
5	☐	12500.000	13405.189	65724267.21	75.5619	A	0.6
6	☐	25000.000	26755.613	131001009.41	150.7935	A	0.5
7	☐	50000.000	52738.171	261395013.25	297.2091	A	1.0
8	☐	250000.00	249214.74	1229221197.8	1,404.383	A	0.3

$$y = 0.0056 * x + 0.0216$$

$$R = 0.9999$$

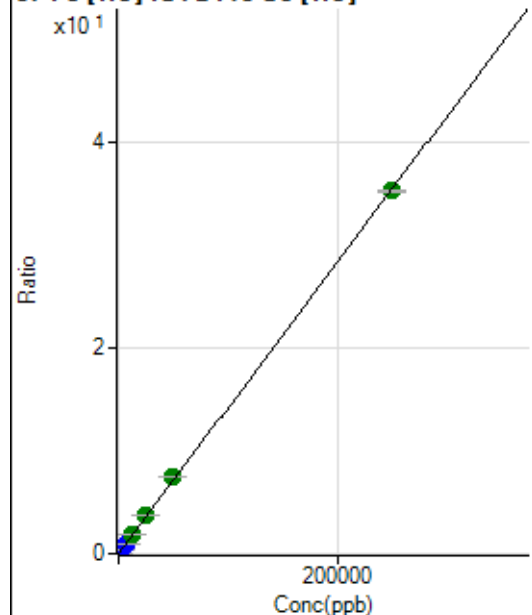
$$DL = 0.1087$$

$$BEC = 3.841$$

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	1009.32	0.0011	P	3.1
2	☐	50.000	55.589	8115.30	0.0090	P	3.9
3	☐	2500.000	2808.960	356156.66	0.3987	P	0.5
4	☐	6250.000	7041.691	873265.45	0.9978	P	0.7
5	☐	12500.000	13296.151	1637927.32	1.8831	A	0.9
6	☐	25000.000	26455.325	3254019.43	3.7457	A	0.5
7	☐	50000.000	52536.734	6541061.20	7.4373	A	1.1
8	☐	250000.00	249284.43	30884214.81	35.2855	A	0.6

$$y = 1.4154\text{E-}004 * x + 0.0011$$

$$R = 0.9999$$

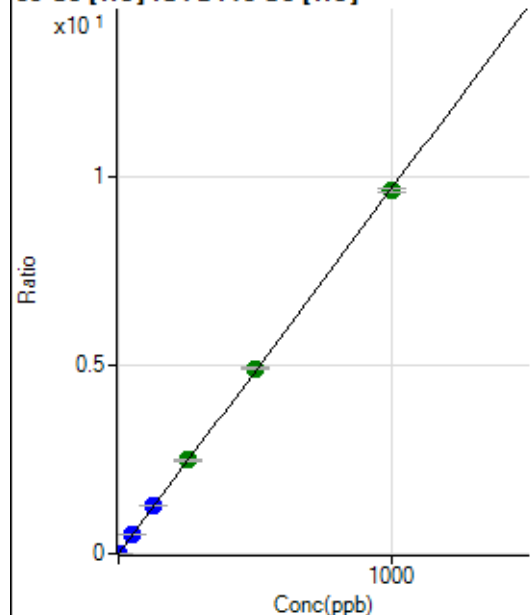
$$DL = 0.7432$$

$$BEC = 7.93$$

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	126.67	0.0001	P	23.2
2	☐	1.000	1.054	9320.74	0.0103	P	1.1
3	☐	50.000	53.197	459111.07	0.5140	P	1.0
4	☐	125.000	133.110	1125351.45	1.2858	P	0.3
5	☐	250.000	256.037	2151205.05	2.4732	A	0.8
6	☐	500.000	506.571	4251001.64	4.8931	A	1.0
7	☐	1000.000	994.031	8444352.44	9.6015	A	1.1
8	☐			36049.92	0.0412	P	1.7

$$y = 0.0097 * x + 1.4082\text{E-}004$$

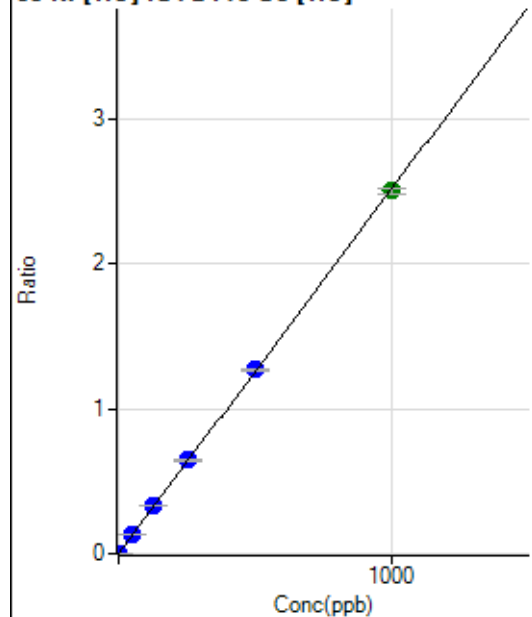
$$R = 0.9999$$

$$DL = 0.01014$$

$$BEC = 0.01458$$

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	306.67	0.0003	P	4.9
2	☐	1.000	1.042	2676.93	0.0030	P	3.5
3	☐	50.000	52.872	119225.75	0.1335	P	0.2
4	☐	125.000	133.519	294527.63	0.3365	P	0.4
5	☐	250.000	256.044	561074.15	0.6450	P	0.6
6	☐	500.000	504.373	1103586.60	1.2703	P	0.4
7	☐	1000.000	995.094	2203908.02	2.5059	A	1.7
8	☐			10920.72	0.0125	P	2.4

$$y = 0.0025 * x + 3.4101E-004$$

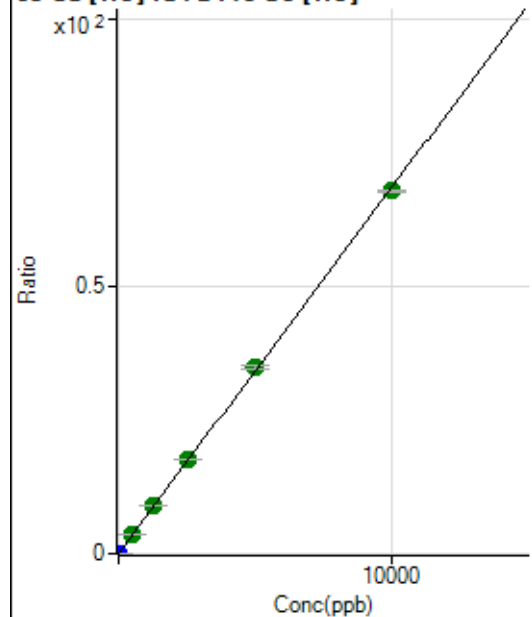
$$R = 0.9999$$

$$DL = 0.0201$$

$$BEC = 0.1354$$

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	2164.62	0.0024	P	2.9
2	☐	2.000	2.069	14933.13	0.0165	P	1.4
3	☐	500.000	534.358	3263451.31	3.6534	A	0.9
4	☐	1250.000	1332.067	7967385.30	9.1037	A	0.5
5	☐	2500.000	2590.121	15395097.00	17.6993	A	0.7
6	☐	5000.000	5097.393	30260138.44	34.8300	A	1.2
7	☐	10000.000	9916.797	59593098.55	67.7583	A	0.8
8	☐			18570.48	0.0212	P	3.2

$$y = 0.0068 * x + 0.0024$$

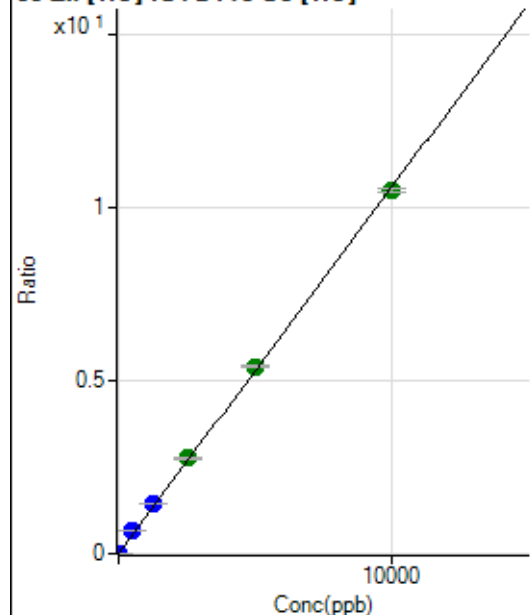
$$R = 0.9999$$

$$DL = 0.0311$$

$$BEC = 0.3522$$

Weight: <None>

Min Conc: 0

66 Zn [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	643.35	0.0007	P	2.6
2	☐	2.000	2.242	2789.17	0.0031	P	3.0
3	☐	500.000	610.418	578204.76	0.6473	P	0.4
4	☐	1250.000	1360.441	1261772.97	1.4417	P	0.3
5	☐	2500.000	2603.454	2399264.05	2.7584	A	0.7
6	☐	5000.000	5097.116	4691244.03	5.3997	A	0.9
7	☐	10000.000	9906.252	9229074.17	10.4937	A	1.2
8	☐			11581.24	0.0132	P	3.1

$$y = 0.0011 * x + 7.1543E-004$$

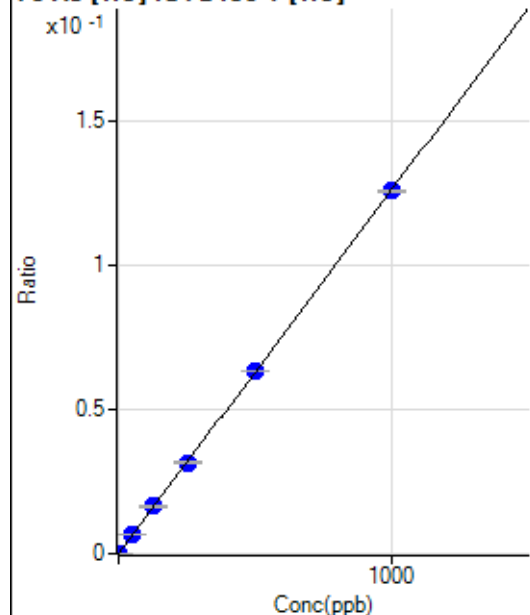
$$R = 0.9998$$

$$DL = 0.05261$$

$$BEC = 0.6754$$

Weight: <None>

Min Conc: 0

75 As [He] ISTD:89 Y [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	3.09	0.0000	P	70.9
2	☐	1.000	1.096	706.81	0.0001	P	0.6
3	☐	50.000	51.132	32771.84	0.0065	P	1.1
4	☐	125.000	130.158	80961.45	0.0164	P	1.1
5	☐	250.000	251.012	157069.06	0.0317	P	0.9
6	☐	500.000	502.209	315248.26	0.0634	P	0.7
7	☐	1000.000	997.941	630763.54	0.1260	P	0.3
8	☐			483.96	0.0001	P	5.9

$$y = 1.2624E-004 * x + 6.1189E-007$$

$$R = 1.0000$$

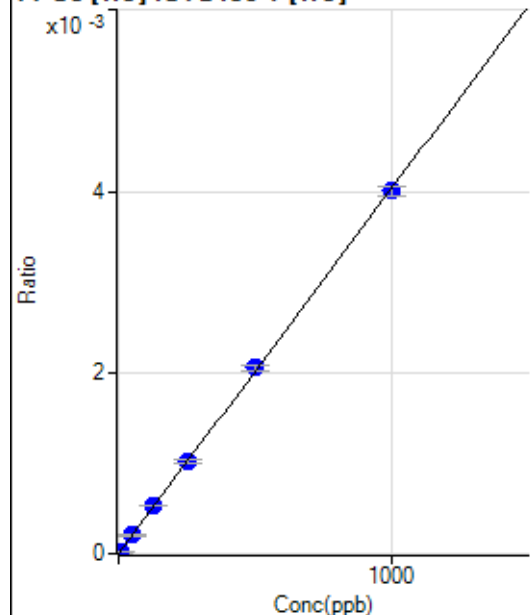
$$DL = 0.0103$$

$$BEC = 0.004847$$

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	2.22	0.0000	P	86.6
2	☐	5.000	4.981	104.45	0.0000	P	14.0
3	☐	50.000	50.867	1043.38	0.0002	P	4.8
4	☐	125.000	132.350	2631.37	0.0005	P	1.8
5	☐	250.000	253.415	5066.47	0.0010	P	3.0
6	☐	500.000	508.881	10204.73	0.0021	P	2.6
7	☐	1000.000	993.744	20062.56	0.0040	P	2.7
8	☐			16.67	0.0000	P	52.1

$$y = 4.0319\text{E-}006 * x + 4.3791\text{E-}007$$

$$R = 0.9999$$

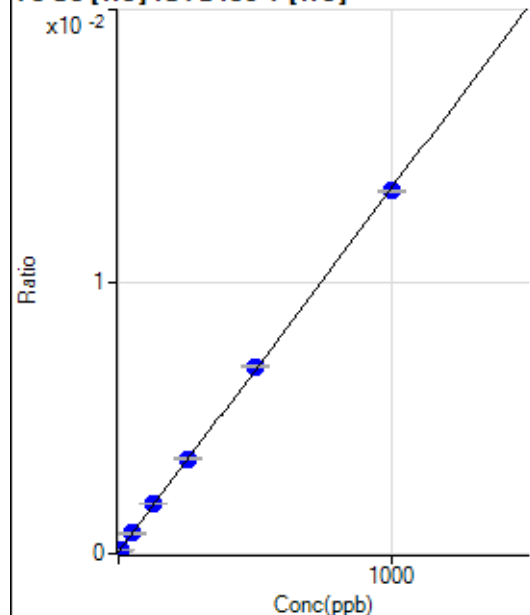
$$DL = 0.2823$$

$$BEC = 0.1086$$

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	348.77	0.0001	P	7.8
2	☐	5.000	4.922	683.35	0.0001	P	12.0
3	☐	50.000	50.531	3781.36	0.0007	P	2.5
4	☐	125.000	131.750	9025.62	0.0018	P	0.7
5	☐	250.000	255.257	17271.79	0.0035	P	1.8
6	☐	500.000	510.083	34283.94	0.0069	P	0.7
7	☐	1000.000	992.775	66863.84	0.0134	P	0.5
8	☐			385.81	0.0001	P	3.0

$$y = 1.3382\text{E-}005 * x + 6.8645\text{E-}005$$

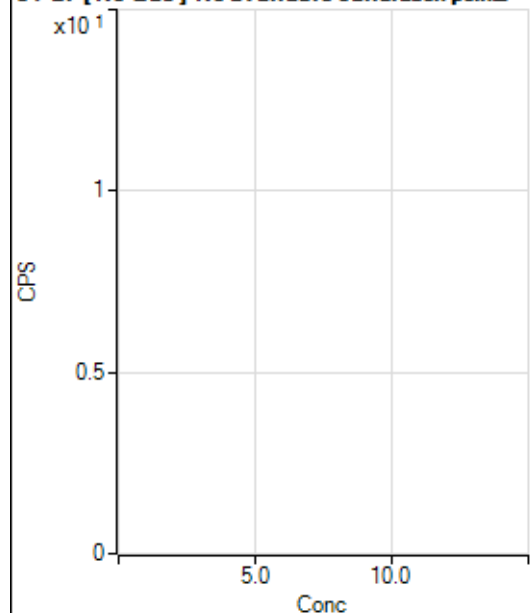
$$R = 0.9999$$

$$DL = 1.193$$

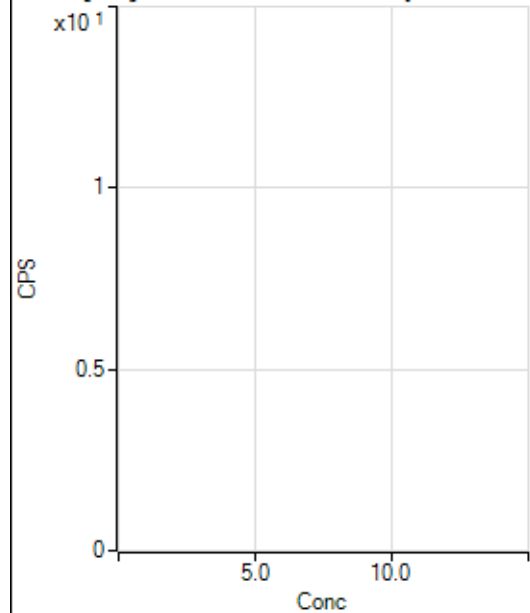
$$BEC = 5.13$$

Weight: <None>

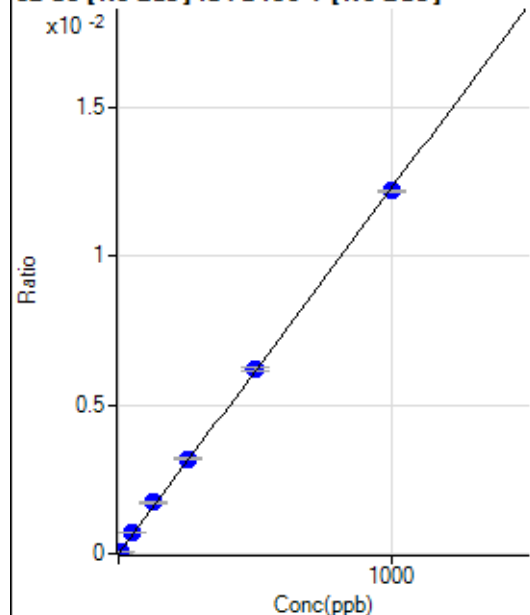
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			23405.26		P	3.6
2	☐			22904.58		P	3.0
3	☐			22990.58		P	1.3
4	☐			22620.68		P	1.0
5	☐			22100.44		P	1.5
6	☐			21813.84		P	2.4
7	☐			23054.68		P	1.0
8	☐			23488.65		P	2.1

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			190.20		P	36.5
2	☐			183.52		P	38.3
3	☐			110.11		P	47.2
4	☐			126.80		P	19.9
5	☐			116.79		P	21.6
6	☐			143.48		P	22.4
7	☐			183.53		P	11.4
8	☐			163.51		P	9.4

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	44.22	0.0000	P	27.6
2	☐	5.000	4.308	1135.72	0.0001	P	5.0
3	☐	50.000	56.722	13516.95	0.0007	P	5.0
4	☐	125.000	139.574	33330.71	0.0017	P	1.8
5	☐	250.000	260.217	64590.86	0.0032	P	1.3
6	☐	500.000	504.717	126389.20	0.0062	P	1.4
7	☐	1000.000	992.933	245730.95	0.0122	P	0.4
8	☐			246.15	0.0000	P	25.5

$$y = 1.2261\text{E-}005 * x + 2.1231\text{E-}006$$

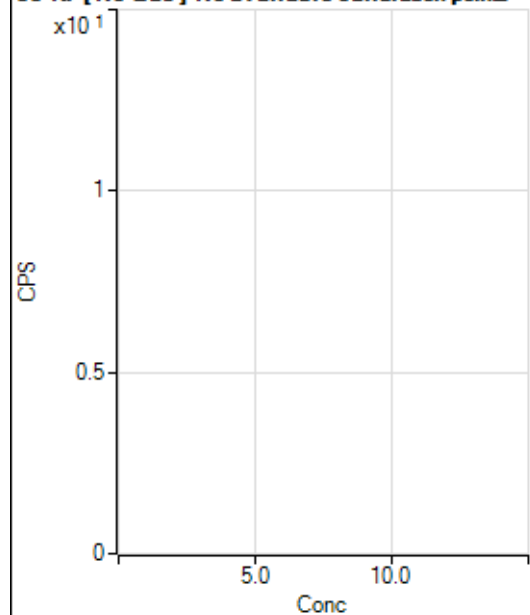
$$R = 0.9998$$

$$DL = 0.1432$$

$$BEC = 0.1732$$

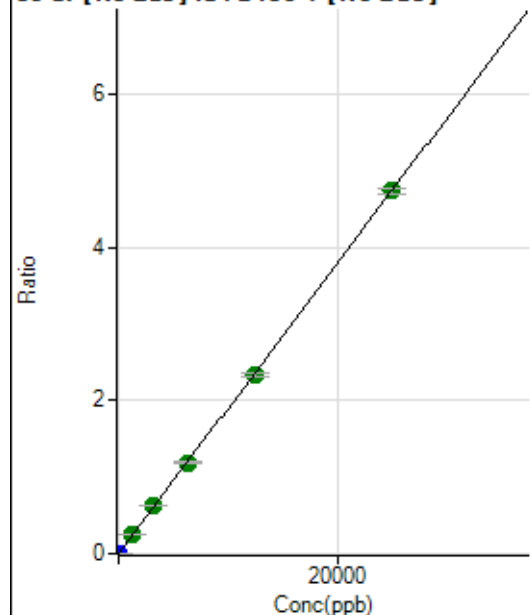
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			492.24		P	3.5
2	☐			521.13		P	9.7
3	☐			505.57		P	2.1
4	☐			526.68		P	0.6
5	☐			466.68		P	13.4
6	☐			494.45		P	4.8
7	☐			536.68		P	0.6
8	☐			556.68		P	9.3

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	833.38	0.0000	P	11.9
2	☐	1.000	0.979	4661.97	0.0002	P	2.6
3	☐	1250.000	1350.727	4959554.28	0.2559	A	4.6
4	☐	3125.000	3340.876	12312239.51	0.6329	A	1.8
5	☐	6250.000	6264.376	24009969.81	1.1867	A	1.5
6	☐	12500.000	12377.475	47874600.72	2.3448	A	2.0
7	☐	25000.000	25025.648	95681651.44	4.7407	A	1.3
8	☐			28539.33	0.0015	P	3.6

$$y = 1.8943E-004 * x + 4.0034E-005$$

$$R = 0.9999$$

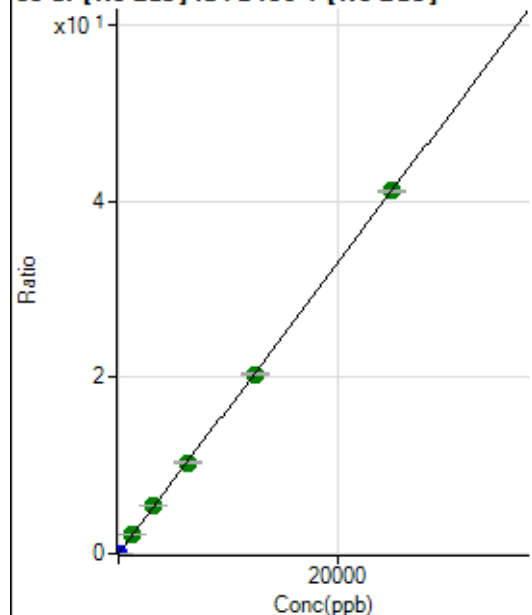
$$DL = 0.07536$$

$$BEC = 0.2113$$

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	369.46	0.0000	P	15.9
2	☐	1.000	0.991	34076.27	0.0016	P	2.6
3	☐	1250.000	1351.818	43089644.37	2.2233	A	4.5
4	☐	3125.000	3331.027	106558824.61	5.4785	A	2.3
5	☐	6250.000	6260.118	208316381.05	10.2958	A	1.9
6	☐	12500.000	12382.640	415820342.63	20.3654	A	1.8
7	☐	25000.000	25025.306	830679740.79	41.1584	A	0.7
8	☐			241845.76	0.0125	P	4.1

$$y = 0.0016 * x + 1.7778E-005$$

$$R = 0.9999$$

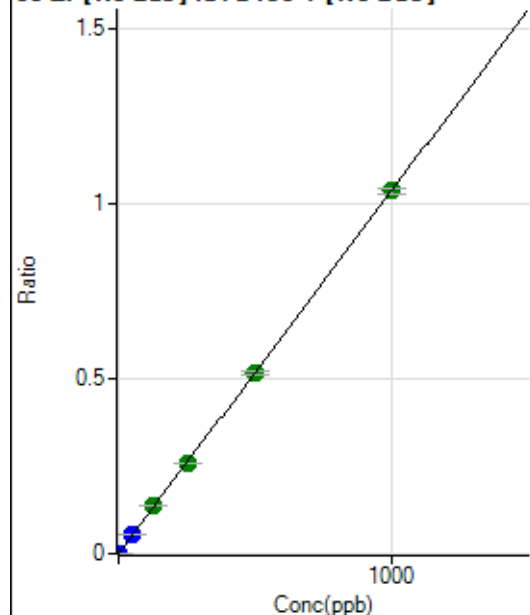
$$DL = 0.005153$$

$$BEC = 0.01081$$

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	883.38	0.0000	P	12.8
2	☐	1.000	0.935	20948.71	0.0010	P	2.1
3	☐	50.000	54.457	1096721.56	0.0566	P	4.1
4	☐	125.000	132.247	2671798.15	0.1373	A	1.6
5	☐	250.000	249.208	5235235.92	0.2588	A	1.0
6	☐	500.000	498.065	10557876.54	0.5171	A	1.2
7	☐	1000.000	1000.037	20956998.04	1.0383	A	1.6
8	☐			10690.27	0.0006	P	3.9

$$y = 0.0010 * x + 4.2508E-005$$

$$R = 1.0000$$

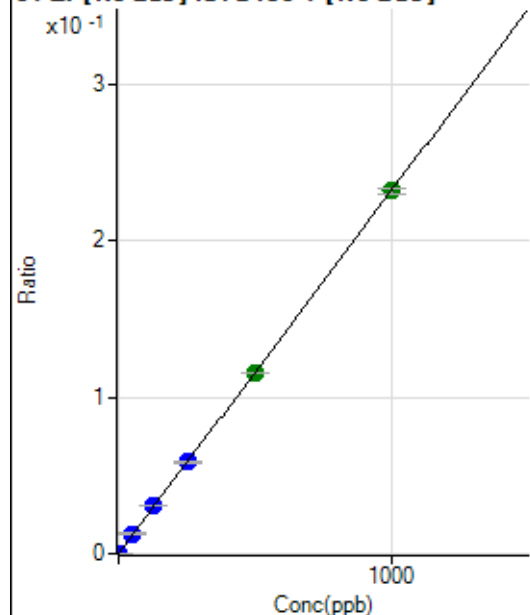
$$DL = 0.01573$$

$$BEC = 0.04094$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	136.12	0.0000	P	23.2
2	☐	1.000	0.943	4659.19	0.0002	P	9.1
3	☐	50.000	54.804	246501.22	0.0127	P	4.1
4	☐	125.000	133.927	604464.78	0.0311	P	1.0
5	☐	250.000	252.747	1186036.78	0.0586	P	1.0
6	☐	500.000	497.654	2356414.07	0.1154	A	0.8
7	☐	1000.000	999.130	4677131.96	0.2317	A	1.7
8	☐			2311.35	0.0001	P	8.3

$$y = 2.3192E-004 * x + 6.5441E-006$$

$$R = 1.0000$$

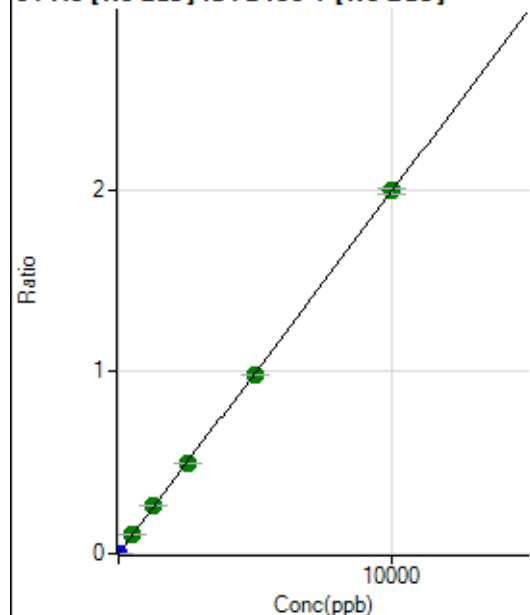
$$DL = 0.01965$$

$$BEC = 0.02822$$

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	272.23	0.0000	P	22.8
2	☐	5.000	5.838	24281.77	0.0012	P	1.6
3	☐	500.000	543.170	2094669.73	0.1081	A	4.6
4	☐	1250.000	1328.062	5141376.98	0.2642	A	0.8
5	☐	2500.000	2502.511	10072717.76	0.4979	A	0.7
6	☐	5000.000	4934.261	20041671.63	0.9817	A	0.5
7	☐	10000.000	10020.325	40239281.11	1.9936	A	1.5
8	☐			13206.30	0.0007	P	4.2

$$y = 1.9895E-004 * x + 1.3085E-005$$

$$R = 0.9999$$

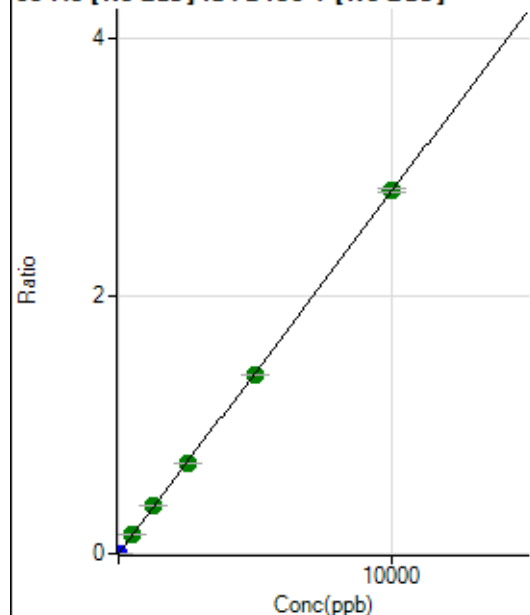
$$DL = 0.04504$$

$$BEC = 0.06577$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	38.89	0.0000	P	23.6
2	☐	5.000	5.028	29204.73	0.0014	P	0.4
3	☐	500.000	540.787	2940947.18	0.1518	A	4.6
4	☐	1250.000	1319.341	7203143.65	0.3702	A	1.0
5	☐	2500.000	2506.604	14230515.16	0.7034	A	1.2
6	☐	5000.000	4936.690	28281476.15	1.3853	A	0.1
7	☐	10000.000	10019.297	56743517.93	2.8115	A	0.9
8	☐			16178.77	0.0008	P	2.9

$$y = 2.8061E-004 * x + 1.8665E-006$$

$$R = 0.9999$$

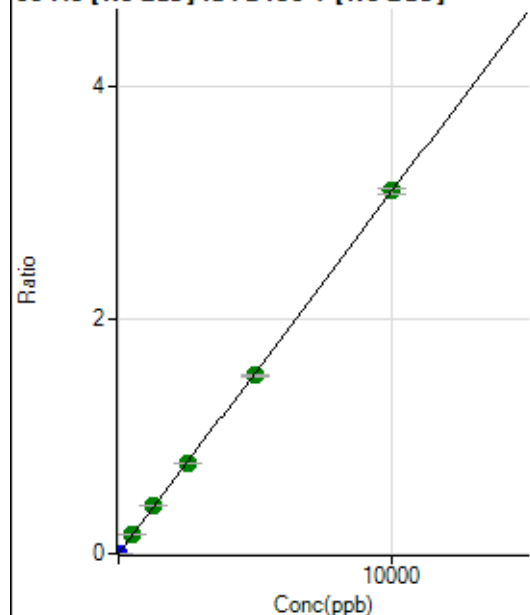
$$DL = 0.004705$$

$$BEC = 0.006651$$

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	136.11	0.0000	P	13.0
2	☐	5.000	5.153	33102.01	0.0016	P	0.3
3	☐	500.000	540.087	3239832.50	0.1672	A	4.4
4	☐	1250.000	1320.647	7951702.87	0.4087	A	1.4
5	☐	2500.000	2491.788	15601690.11	0.7712	A	1.3
6	☐	5000.000	4922.805	31107100.35	1.5236	A	0.9
7	☐	10000.000	10029.815	62652745.15	3.1041	A	1.3
8	☐			26858.54	0.0014	P	3.7

$$y = 3.0949\text{E-}004 * x + 6.5381\text{E-}006$$

$$R = 0.9999$$

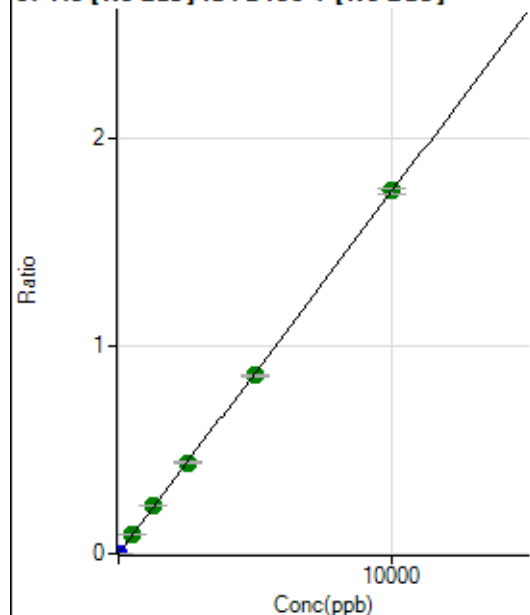
$$DL = 0.008245$$

$$BEC = 0.02113$$

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	30.55	0.0000	P	83.7
2	☐	5.000	5.119	18492.67	0.0009	P	3.1
3	☐	500.000	540.592	1827507.31	0.0943	A	5.3
4	☐	1250.000	1332.648	4523820.76	0.2325	A	1.3
5	☐	2500.000	2503.104	8836219.73	0.4367	A	1.7
6	☐	5000.000	4927.672	17554425.57	0.8598	A	0.8
7	☐	10000.000	10023.027	35298231.34	1.7488	A	1.8
8	☐			9239.28	0.0005	P	5.7

$$y = 1.7448\text{E-}004 * x + 1.4678\text{E-}006$$

$$R = 0.9999$$

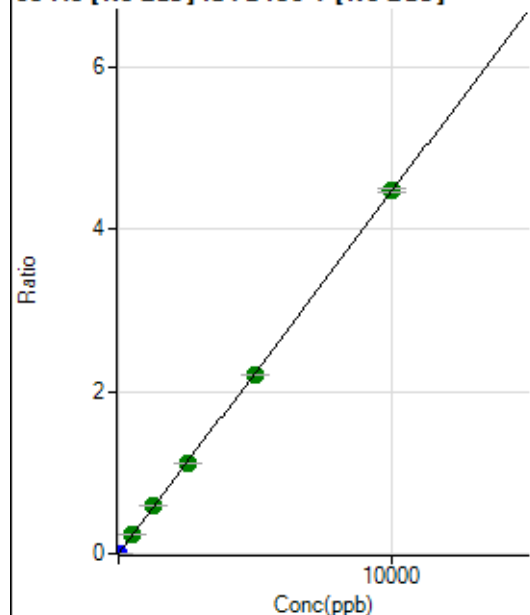
$$DL = 0.02111$$

$$BEC = 0.008413$$

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	91.67	0.0000	P	16.7
2	☐	5.000	5.130	47405.44	0.0023	P	1.9
3	☐	500.000	537.823	4650624.97	0.2400	A	4.5
4	☐	1250.000	1323.709	11489267.70	0.5906	A	1.9
5	☐	2500.000	2508.296	22640560.40	1.1191	A	1.0
6	☐	5000.000	4935.844	44961067.67	2.2022	A	0.5
7	☐	10000.000	10018.899	90214706.18	4.4701	A	0.9
8	☐			22921.24	0.0012	P	5.5

$$y = 4.4616E-004 * x + 4.4118E-006$$

$$R = 0.9999$$

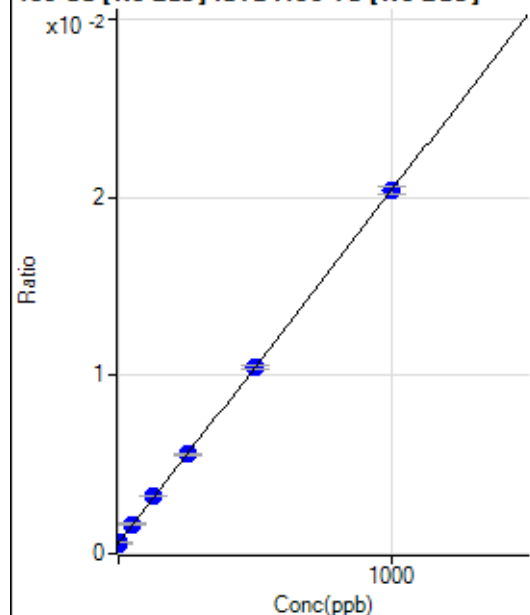
$$DL = 0.004943$$

$$BEC = 0.009888$$

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	9116.97	0.0006	P	7.0
2	☐	1.000	1.031	9358.81	0.0006	P	1.5
3	☐	50.000	54.711	24718.88	0.0017	P	2.1
4	☐	125.000	134.697	48838.37	0.0032	P	1.9
5	☐	250.000	252.225	87030.69	0.0056	P	1.9
6	☐	500.000	498.531	163117.30	0.0104	P	1.6
7	☐	1000.000	998.730	313352.39	0.0203	P	1.9
8	☐			8624.97	0.0006	P	4.0

$$y = 1.9786E-005 * x + 5.8066E-004$$

$$R = 1.0000$$

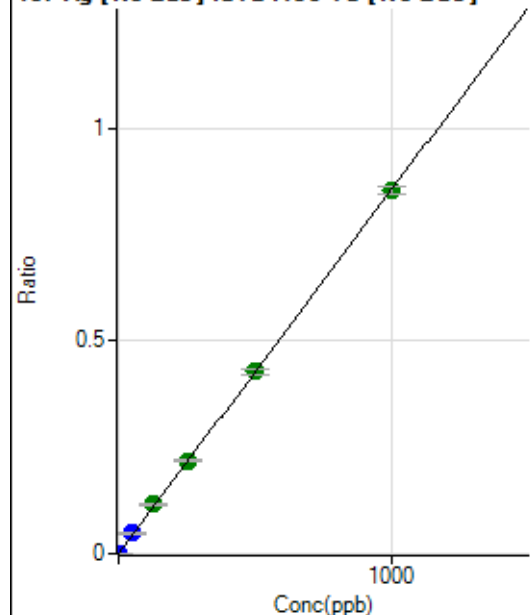
$$DL = 6.127$$

$$BEC = 29.35$$

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	86.11	0.0000	P	27.5
2	☐	1.000	0.836	11229.65	0.0007	P	13.8
3	☐	50.000	55.504	705311.23	0.0475	P	1.9
4	☐	125.000	135.076	1737988.87	0.1155	A	1.2
5	☐	250.000	255.638	3413963.23	0.2186	A	1.2
6	☐	500.000	500.217	6679312.00	0.4277	A	2.7
7	☐	1000.000	996.948	13129920.26	0.8523	A	1.9
8	☐			7396.52	0.0005	P	6.0

$$y = 8.5494\text{E-}004 * x + 5.4784\text{E-}006$$

$$R = 0.9999$$

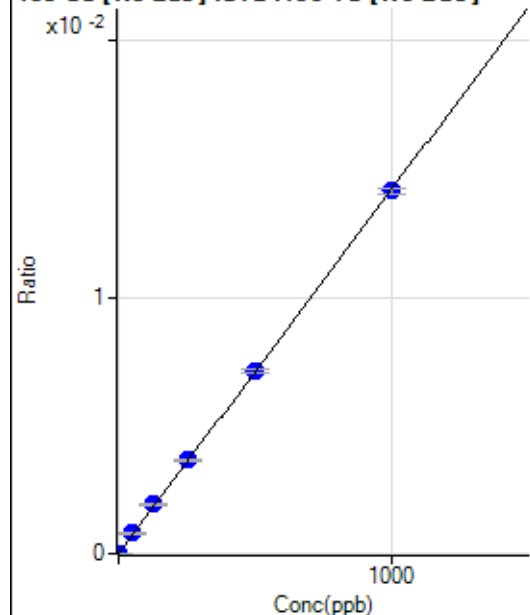
$$DL = 0.005286$$

$$BEC = 0.006408$$

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	31.95	0.0000	P	15.7
2	☐	1.000	0.886	227.78	0.0000	P	2.8
3	☐	50.000	55.505	11742.36	0.0008	P	3.4
4	☐	125.000	134.927	28878.83	0.0019	P	1.3
5	☐	250.000	257.509	57186.07	0.0037	P	2.3
6	☐	500.000	500.576	111103.76	0.0071	P	2.3
7	☐	1000.000	996.319	218084.17	0.0142	P	1.7
8	☐			120.84	0.0000	P	28.6

$$y = 1.4207\text{E-}005 * x + 2.0359\text{E-}006$$

$$R = 0.9999$$

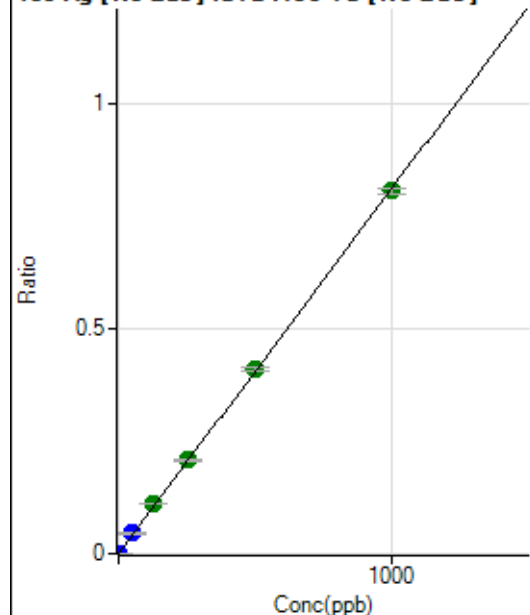
$$DL = 0.06744$$

$$BEC = 0.1433$$

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	33.33	0.0000	P	44.0
2	☐	1.000	0.810	10242.79	0.0007	P	10.4
3	☐	50.000	55.819	671020.50	0.0452	P	2.1
4	☐	125.000	135.973	1655552.29	0.1100	A	0.6
5	☐	250.000	256.204	3237434.27	0.2072	A	1.6
6	☐	500.000	504.290	6370625.06	0.4079	A	1.9
7	☐	1000.000	994.642	12393842.38	0.8046	A	1.4
8	☐			6823.99	0.0005	P	2.6

$$y = 8.0889\text{E-}004 * x + 2.1265\text{E-}006$$

$$R = 0.9999$$

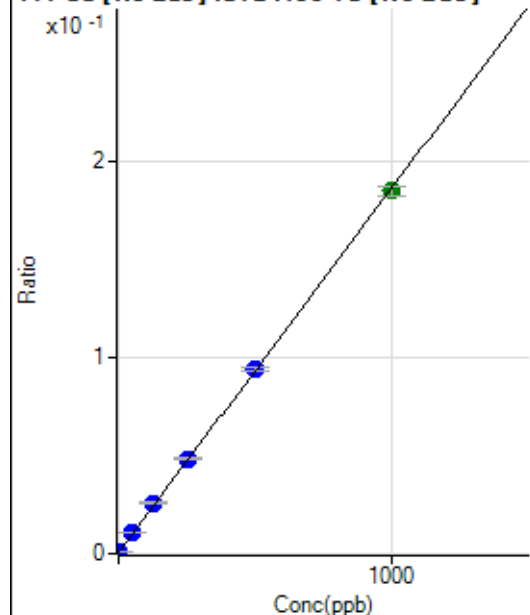
$$DL = 0.003467$$

$$BEC = 0.002629$$

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	8207.21	0.0005	P	6.9
2	☐	1.000	1.132	11404.12	0.0007	P	1.6
3	☐	50.000	56.268	162557.51	0.0109	P	3.9
4	☐	125.000	136.919	389594.95	0.0259	P	1.3
5	☐	250.000	258.344	755836.90	0.0484	P	1.6
6	☐	500.000	505.333	1470258.48	0.0941	P	1.7
7	☐	1000.000	993.444	2843394.12	0.1846	A	3.0
8	☐			8432.78	0.0006	P	3.2

$$y = 1.8526\text{E-}004 * x + 5.2271\text{E-}004$$

$$R = 0.9999$$

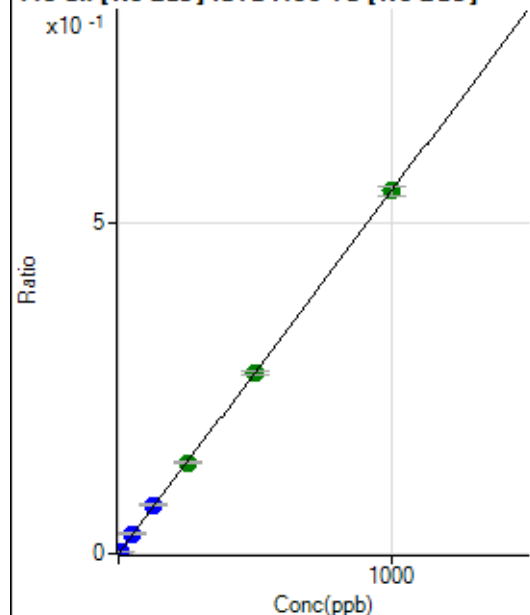
$$DL = 0.5815$$

$$BEC = 2.821$$

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	3239.35	0.0002	P	2.9
2	☐	5.000	5.007	45987.78	0.0030	P	1.4
3	☐	50.000	54.875	450005.77	0.0303	P	4.6
4	☐	125.000	134.795	1116077.30	0.0742	P	1.2
5	☐	250.000	251.362	2157638.98	0.1381	A	2.3
6	☐	500.000	496.553	4257871.88	0.2726	A	1.7
7	☐	1000.000	999.915	8454528.66	0.5488	A	2.4
8	☐			11168.47	0.0008	P	1.8

$$y = 5.4864\text{E-}004 * x + 2.0632\text{E-}004$$

$$R = 0.9999$$

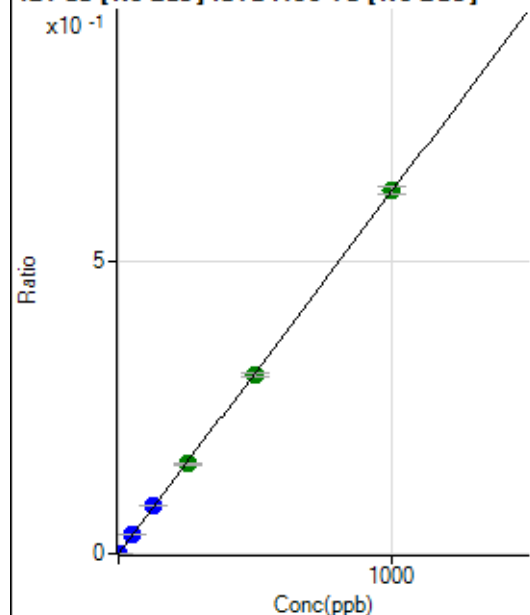
$$DL = 0.03273$$

$$BEC = 0.3761$$

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	66.67	0.0000	P	33.8
2	☐	2.000	2.054	19883.71	0.0013	P	2.4
3	☐	50.000	53.433	491362.43	0.0331	P	4.4
4	☐	125.000	132.003	1230384.62	0.0818	P	1.1
5	☐	250.000	249.253	2411704.18	0.1544	A	2.4
6	☐	500.000	493.458	4773128.45	0.3056	A	2.6
7	☐	1000.000	1002.411	9563736.50	0.6208	A	1.9
8	☐			11046.17	0.0008	P	4.4

$$y = 6.1933\text{E-}004 * x + 4.2526\text{E-}006$$

$$R = 0.9999$$

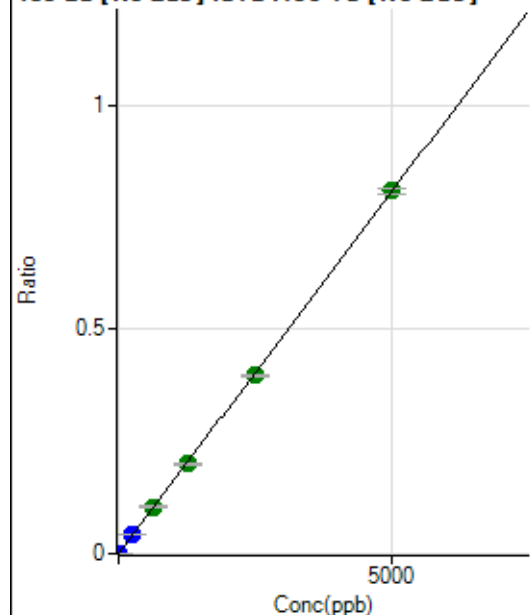
$$DL = 0.006958$$

$$BEC = 0.006866$$

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	30.55	0.0000	P	15.5
2	☐	10.000	9.428	23714.73	0.0015	P	3.1
3	☐	250.000	264.329	633297.03	0.0427	P	4.2
4	☐	625.000	648.885	1575302.65	0.1047	A	2.6
5	☐	1250.000	1241.942	3130482.95	0.2004	A	1.6
6	☐	2500.000	2463.503	6208022.45	0.3975	A	1.6
7	☐	5000.000	5016.562	12469738.30	0.8095	A	1.8
8	☐			6648.94	0.0005	P	7.4

$$y = 1.6136E-004 * x + 1.9453E-006$$

$$R = 0.9999$$

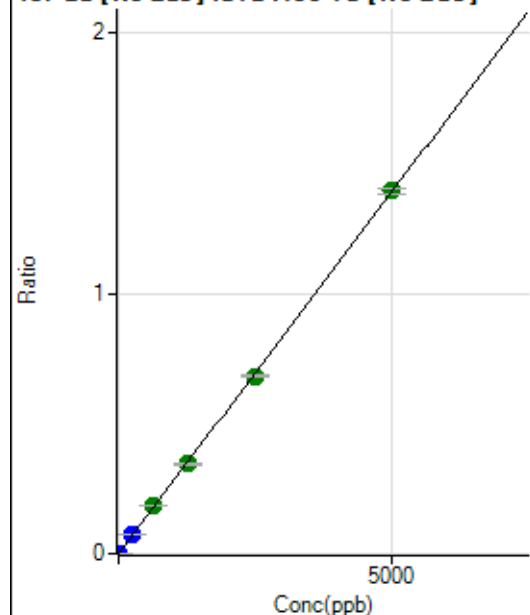
$$DL = 0.005601$$

$$BEC = 0.01206$$

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	33.33	0.0000	P	24.1
2	☐	10.000	9.749	42202.56	0.0027	P	0.9
3	☐	250.000	266.988	1100787.13	0.0742	P	4.9
4	☐	625.000	654.303	2735436.06	0.1817	A	0.7
5	☐	1250.000	1242.524	5391284.50	0.3451	A	1.6
6	☐	2500.000	2457.974	10661923.42	0.6827	A	1.3
7	☐	5000.000	5018.370	21471783.64	1.3939	A	1.7
8	☐			11632.87	0.0008	P	2.7

$$y = 2.7775E-004 * x + 2.1200E-006$$

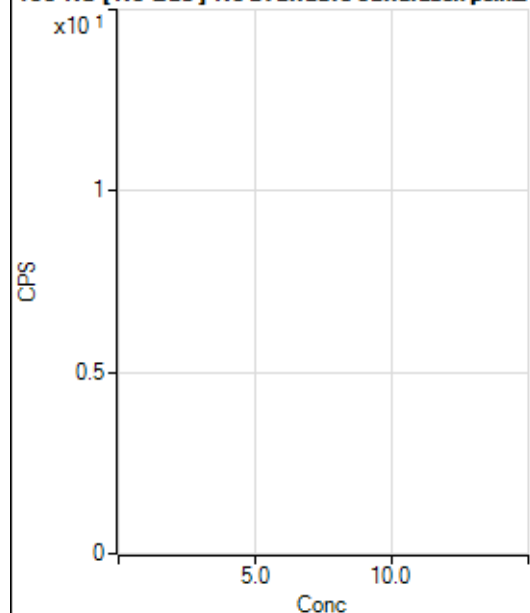
$$R = 0.9999$$

$$DL = 0.005529$$

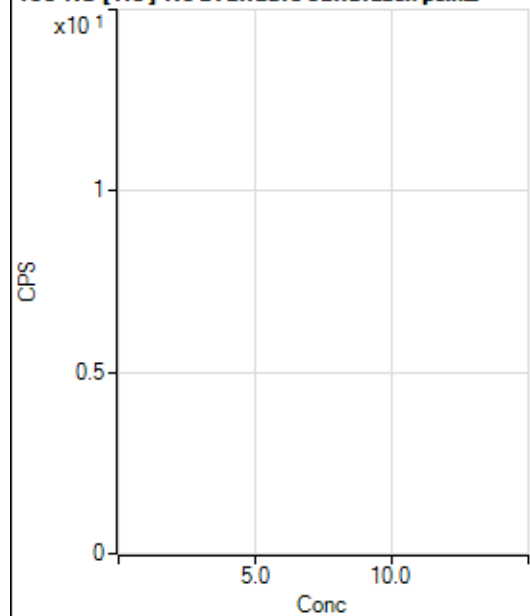
$$BEC = 0.007633$$

Weight: <None>

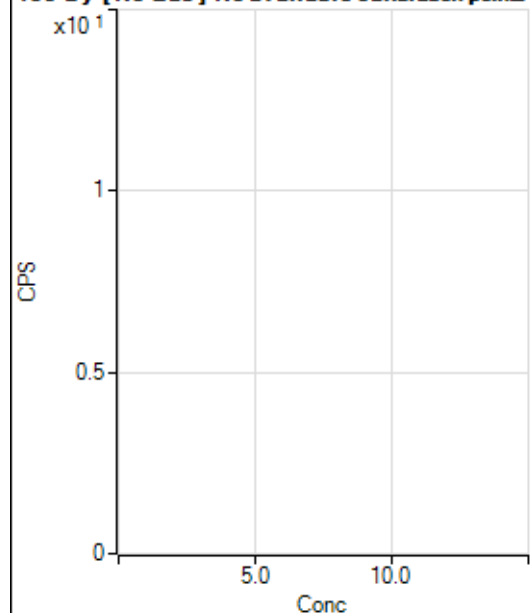
Min Conc: 0

150 Nd [No Gas] No available calibration points

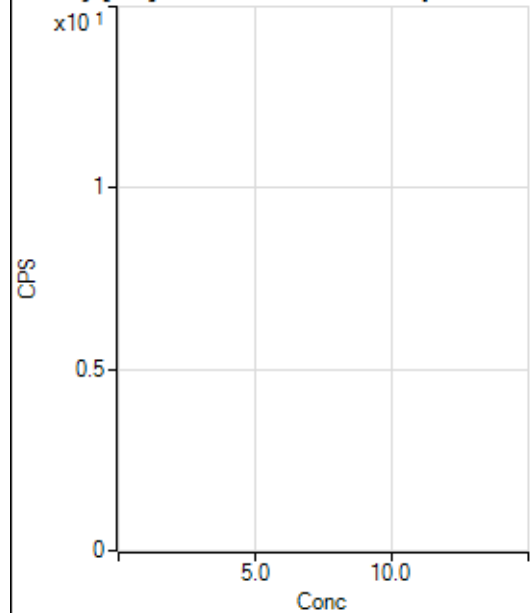
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.45		P	86.6
2	☐			8.89		P	43.3
3	☐			91.12		P	22.4
4	☐			182.23		P	16.5
5	☐			435.57		P	5.8
6	☐			728.92		P	9.3
7	☐			1515.67		P	7.5
8	☐			111.12		P	27.7

150 Nd [He] No available calibration points

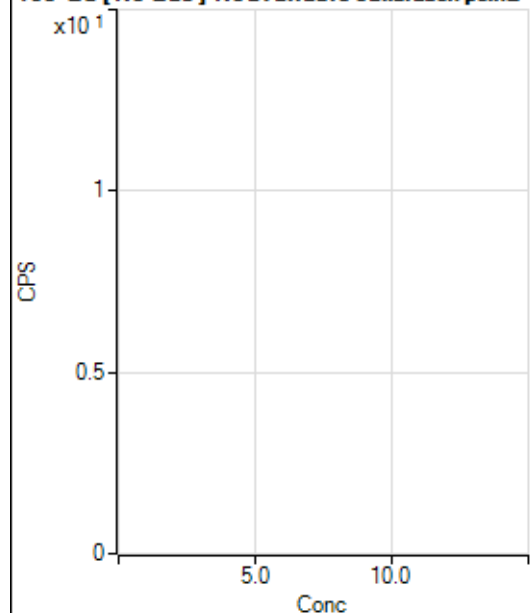
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.
2	☐			2.22		P	86.6
3	☐			16.67		P	40.0
4	☐			51.11		P	13.6
5	☐			108.89		P	7.7
6	☐			208.89		P	12.0
7	☐			362.23		P	11.0
8	☐			81.11		P	16.6

156 Dy [No Gas] No available calibration points

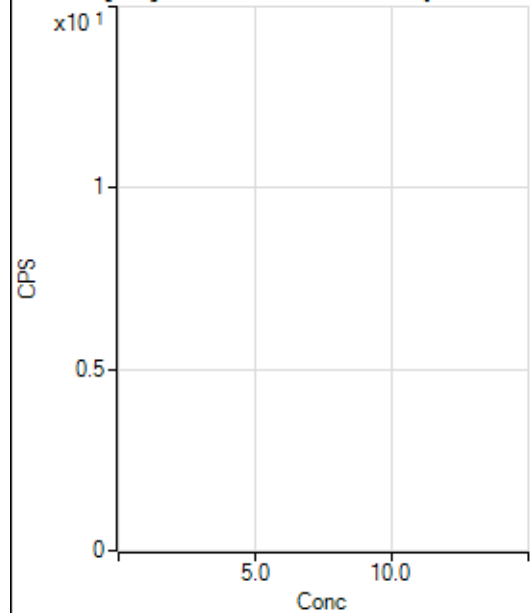
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			19.44		P	65.5
2	☐			16.67		P	50.0
3	☐			38.89		P	53.9
4	☐			77.78		P	16.4
5	☐			213.90		P	15.7
6	☐			311.12		P	26.4
7	☐			672.26		P	15.5
8	☐			1272.31		P	9.2

156 Dy [He] No available calibration points

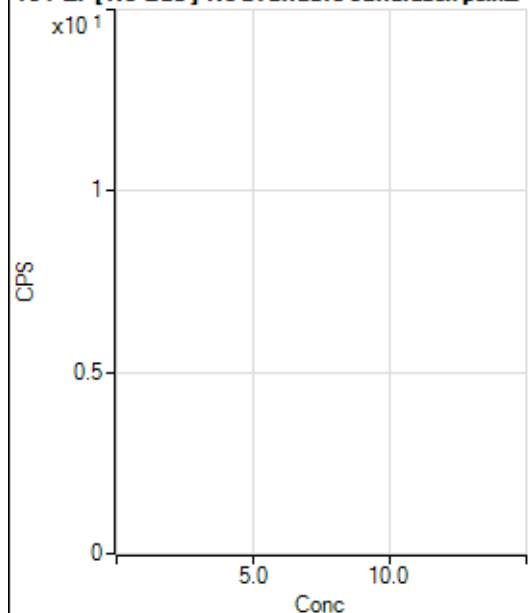
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	0.0
2	☐			5.56		P	34.7
3	☐			42.22		P	18.2
4	☐			84.44		P	14.9
5	☐			182.23		P	10.1
6	☐			385.57		P	15.5
7	☐			663.36		P	14.4
8	☐			821.15		P	5.1

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

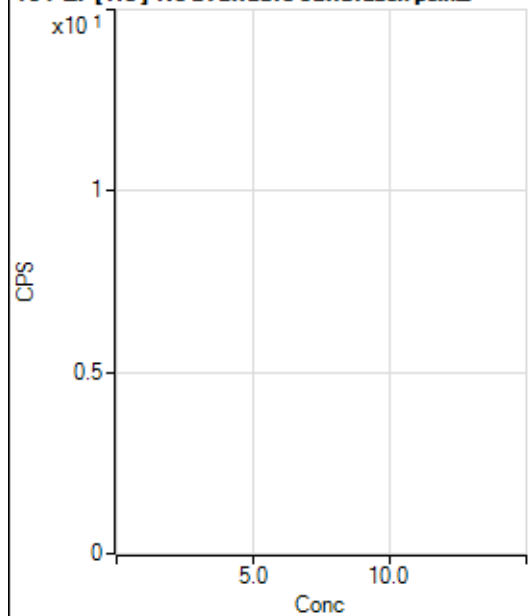
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			94.45		P	13.5
2	☐			102.78		P	20.4
3	☐			130.56		P	9.8
4	☐			130.56		P	63.0
5	☐			158.34		P	19.0
6	☐			219.45		P	32.7
7	☐			422.24		P	14.9
8	☐			947.28		P	12.4

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			471.12		P	3.9
2	☐			437.79		P	2.7
3	☐			453.35		P	9.2
4	☐			501.13		P	10.7
5	☐			524.46		P	9.7
6	☐			557.80		P	20.0
7	☐			701.14		P	5.5
8	☐			1022.27		P	5.8

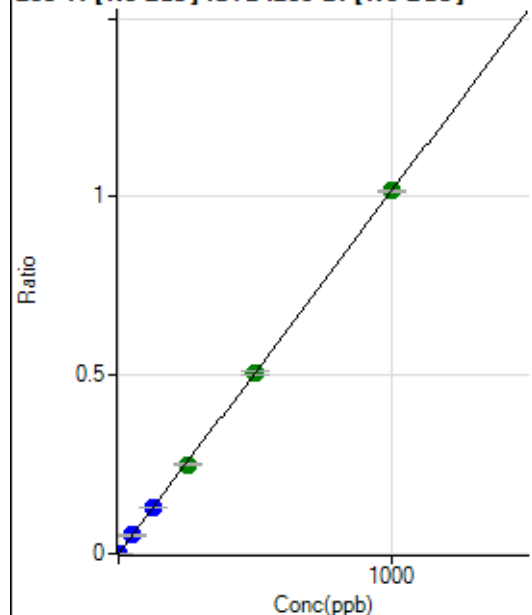
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			63.89		P	15.1
2	☐			58.34		P	28.6
3	☐			61.11		P	41.7
4	☐			69.45		P	45.4
5	☐			97.23		P	32.5
6	☐			183.34		P	22.7
7	☐			269.45		P	20.6
8	☐			105.56		P	12.1

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			38.89		P	4.9
2	☐			45.55		P	29.6
3	☐			42.22		P	4.6
4	☐			41.11		P	23.4
5	☐			83.33		P	17.4
6	☐			145.56		P	11.8
7	☐			176.67		P	11.8
8	☐			67.78		P	32.7

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	63.89	0.0000	P	7.2
2	☐	1.000	0.925	9122.74	0.0009	P	6.3
3	☐	50.000	50.735	470218.67	0.0515	P	4.6
4	☐	125.000	127.407	1190074.79	0.1294	P	1.4
5	☐	250.000	246.372	2420345.65	0.2502	A	0.3
6	☐	500.000	499.093	4792185.87	0.5069	A	1.9
7	☐	1000.000	1001.023	9371374.08	1.0167	A	0.2
8	☐			3575.57	0.0004	P	7.6

$$y = 0.0010 * x + 6.5825E-006$$

$$R = 1.0000$$

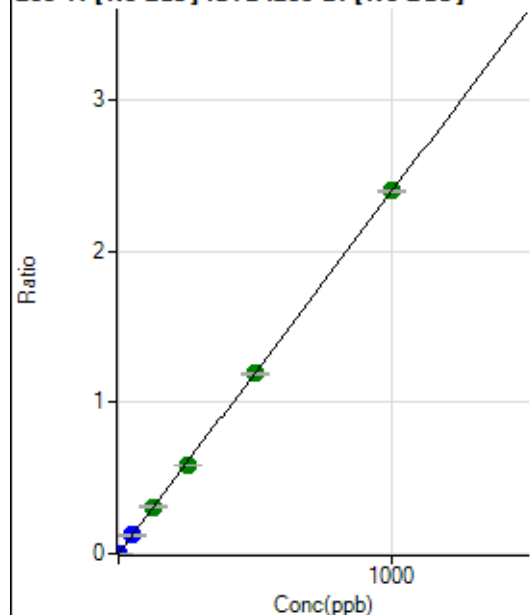
$$DL = 0.001391$$

$$BEC = 0.006481$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	161.12	0.0000	P	53.6
2	☐	1.000	0.935	21762.38	0.0023	P	1.2
3	☐	50.000	50.971	1114788.48	0.1222	P	4.6
4	☐	125.000	129.168	2846750.54	0.3096	A	1.6
5	☐	250.000	244.022	5656814.54	0.5849	A	0.7
6	☐	500.000	497.169	11264401.73	1.1916	A	1.5
7	☐	1000.000	1002.341	22144272.20	2.4024	A	0.4
8	☐			8147.11	0.0010	P	5.0

$$y = 0.0024 * x + 1.6658E-005$$

$$R = 1.0000$$

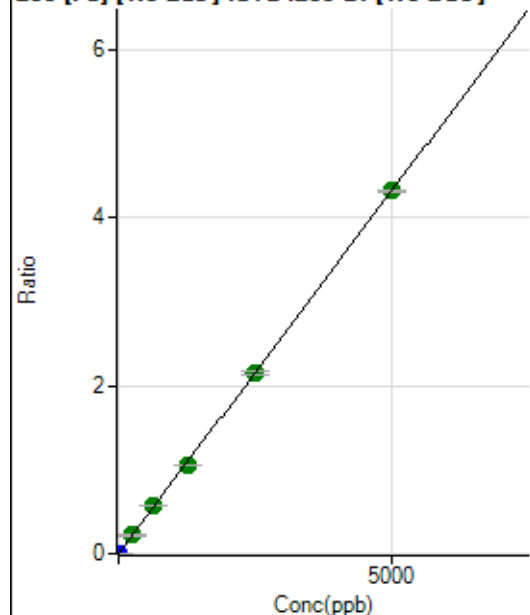
$$DL = 0.01117$$

$$BEC = 0.00695$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	303.71	0.0000	P	27.9
2	☐	1.000	0.923	7982.11	0.0008	P	5.4
3	☐	250.000	260.586	2051052.97	0.2250	A	6.8
4	☐	625.000	652.881	5183362.85	0.5637	A	0.8
5	☐	1250.000	1224.870	10227261.69	1.0574	A	0.4
6	☐	2500.000	2499.812	20401161.34	2.1581	A	2.2
7	☐	5000.000	5002.362	39805818.95	4.3185	A	0.4
8	☐			10945.32	0.0014	P	2.2

$$y = 8.6328\text{E-}004 * x + 3.1341\text{E-}005$$

$$R = 1.0000$$

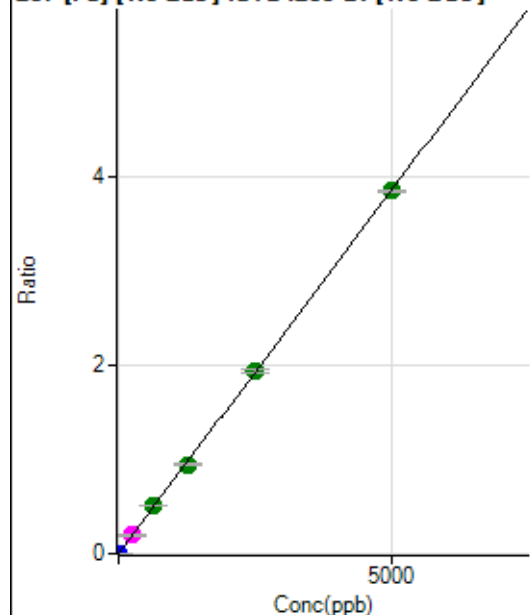
$$DL = 0.03035$$

$$BEC = 0.0363$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	251.86	0.0000	P	11.8
2	☐	1.000	0.869	6714.74	0.0007	P	3.9
3	☐	250.000	252.625	1779844.98	0.1950	M	4.3
4	☐	625.000	658.110	4670989.05	0.5079	A	0.3
5	☐	1250.000	1228.843	9172971.56	0.9483	A	1.0
6	☐	2500.000	2516.228	18356416.04	1.9418	A	2.0
7	☐	5000.000	4992.905	35516417.23	3.8530	A	0.9
8	☐			9874.11	0.0012	P	1.2

$$y = 7.7170\text{E-}004 * x + 2.5945\text{E-}005$$

$$R = 1.0000$$

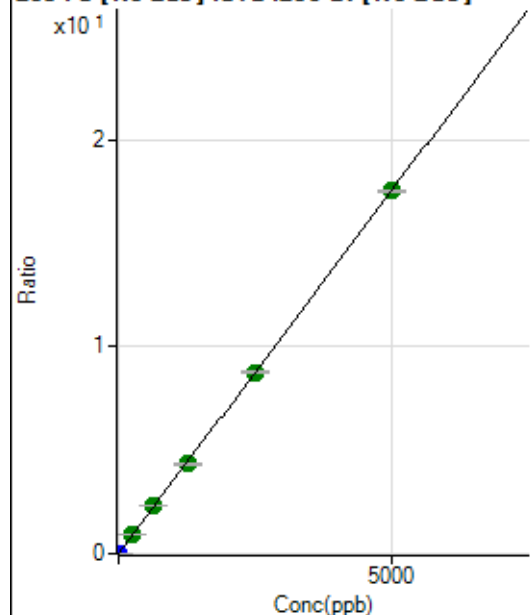
$$DL = 0.01189$$

$$BEC = 0.03362$$

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	1205.60	0.0001	P	3.9
2	☐	1.000	0.887	31157.06	0.0032	P	2.0
3	☐	250.000	261.240	8354738.09	0.9159	A	5.3
4	☐	625.000	654.805	21111223.21	2.2956	A	0.6
5	☐	1250.000	1233.469	41825665.69	4.3242	A	0.6
6	☐	2500.000	2501.024	82883713.55	8.7678	A	1.7
7	☐	5000.000	4999.333	161550335.33	17.5259	A	0.6
8	☐			44577.52	0.0055	P	2.5

$$y = 0.0035 * x + 1.2426E-004$$

$$R = 1.0000$$

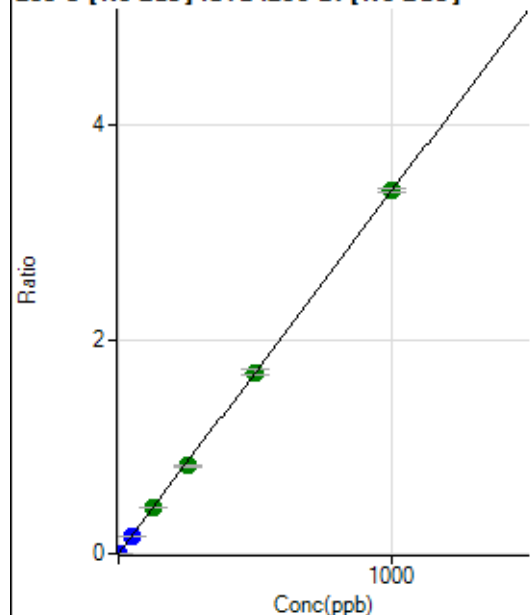
$$DL = 0.004187$$

$$BEC = 0.03544$$

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	127.78	0.0000	P	44.0
2	☐	1.000	0.893	29241.20	0.0030	P	2.3
3	☐	50.000	47.794	1475173.58	0.1617	P	5.3
4	☐	125.000	128.696	4004516.89	0.4355	A	1.0
5	☐	250.000	242.977	7952104.52	0.8221	A	1.5
6	☐	500.000	501.252	16033678.48	1.6960	A	2.7
7	☐	1000.000	1000.778	31214808.34	3.3862	A	1.2
8	☐			4217.45	0.0005	P	5.6

$$y = 0.0034 * x + 1.3186E-005$$

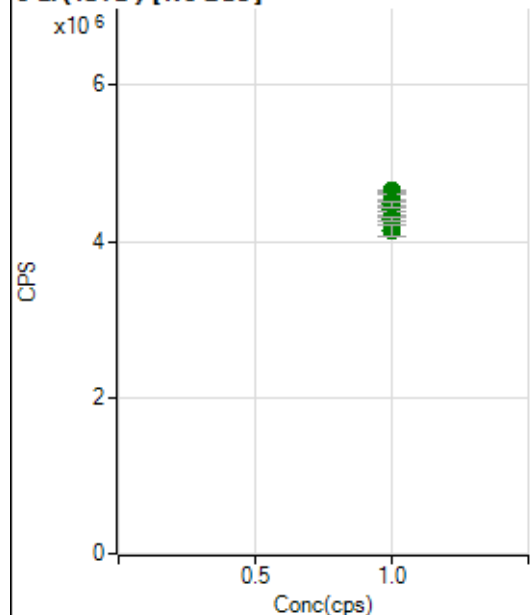
$$R = 1.0000$$

$$DL = 0.005143$$

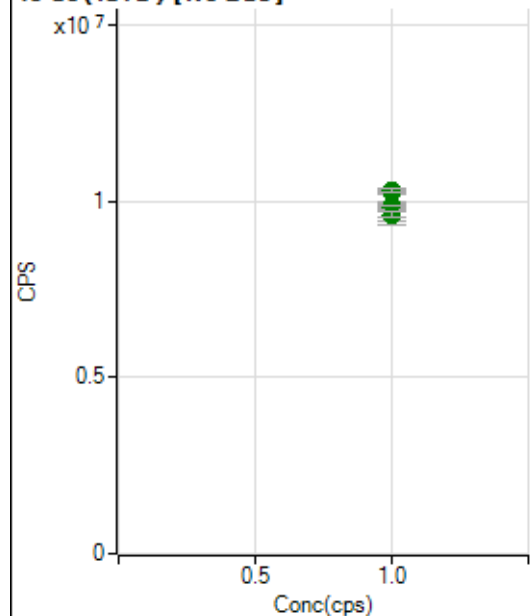
$$BEC = 0.003897$$

Weight: <None>

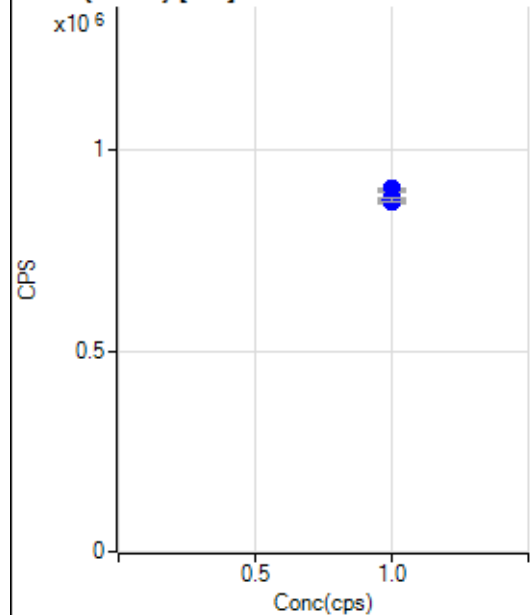
Min Conc: 0

6 Li (ISTD) [No Gas]

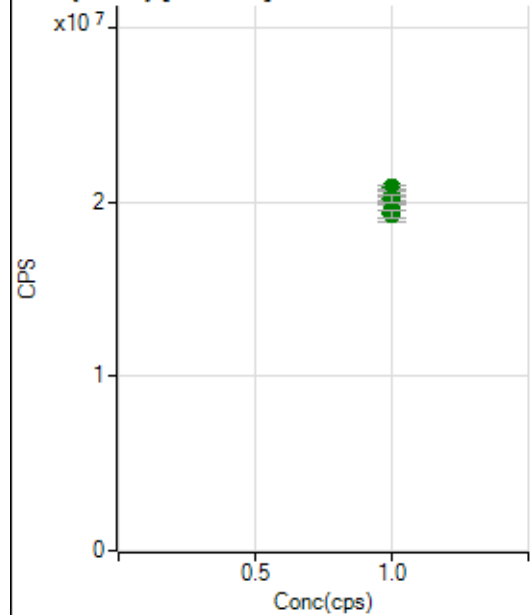
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		4647783.09		A	0.3
2	☐	1.000		4605187.78		A	0.2
3	☐	1.000		4417014.28		A	3.6
4	☐	1.000		4453634.76		A	2.6
5	☐	1.000		4498301.35		A	1.5
6	☐	1.000		4479380.49		A	1.5
7	☐	1.000		4287264.21		A	0.8
8	☐	1.000		4144428.72		A	3.7

45 Sc (ISTD) [No Gas]

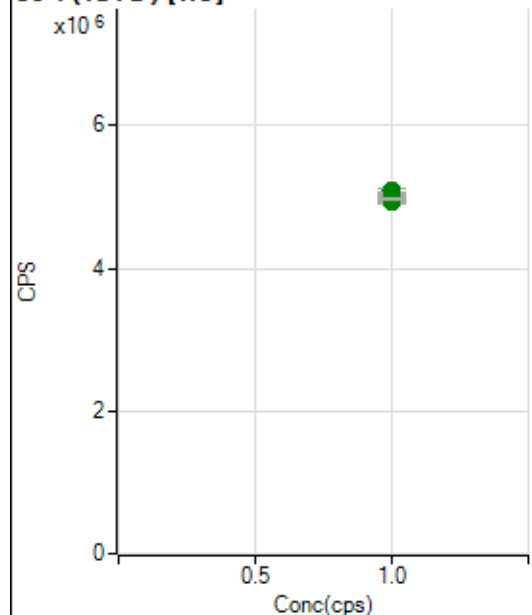
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		10263451.65		A	1.4
2	☐	1.000		10299397.63		A	1.2
3	☐	1.000		9628285.90		A	6.2
4	☐	1.000		9582240.55		A	3.4
5	☐	1.000		9905356.73		A	2.1
6	☐	1.000		9894710.69		A	0.3
7	☐	1.000		9830858.19		A	1.2
8	☐	1.000		9631803.40		A	2.1

45 Sc (ISTD) [He]

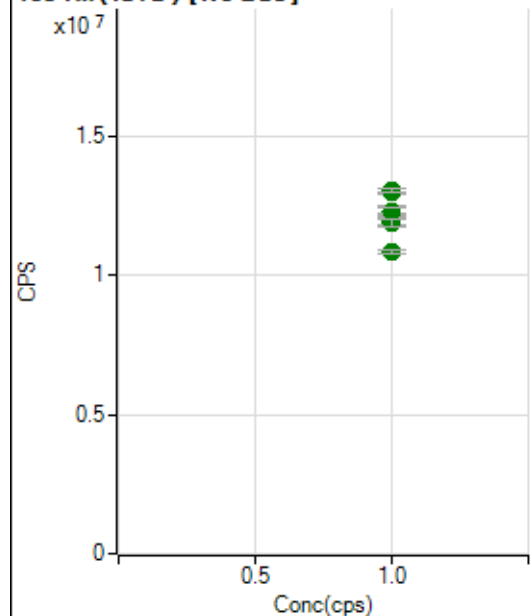
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		899318.93		P	0.8
2	☐	1.000		902721.63		P	0.8
3	☐	1.000		893270.77		P	0.1
4	☐	1.000		875177.36		P	0.2
5	☐	1.000		869811.73		P	0.1
6	☐	1.000		868760.17		P	0.9
7	☐	1.000		879514.33		P	0.4
8	☐	1.000		875272.36		P	0.8

89 Y (ISTD) [No Gas]

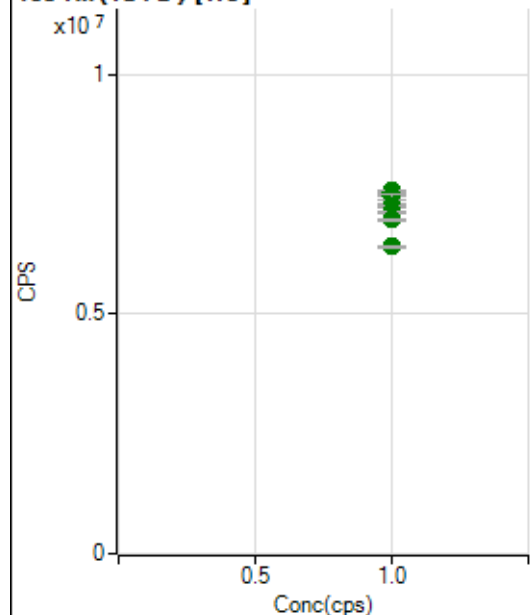
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		20799433.30		A	1.1
2	☐	1.000		20670495.53		A	0.5
3	☐	1.000		19414660.13		A	5.8
4	☐	1.000		19460637.21		A	3.5
5	☐	1.000		20229048.17		A	1.6
6	☐	1.000		20415477.75		A	1.5
7	☐	1.000		20180930.11		A	1.7
8	☐	1.000		19291482.21		A	2.3

89 Y(ISTD) [He]

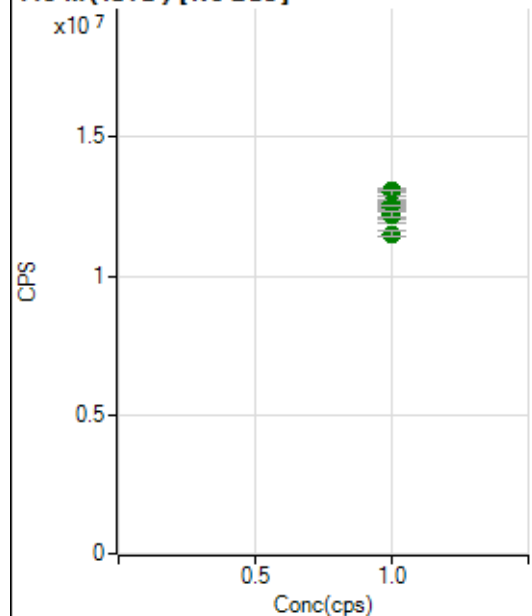
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		5077051.28		A	1.5
2	☐	1.000		5084865.48		A	1.2
3	☐	1.000		5076681.87		A	0.1
4	☐	1.000		4927600.03		A	0.8
5	☐	1.000		4956938.22		A	0.6
6	☐	1.000		4972539.16		A	0.8
7	☐	1.000		5007012.53		A	0.3
8	☐	1.000		4968153.99		A	0.8

103 Rh(ISTD) [No Gas]

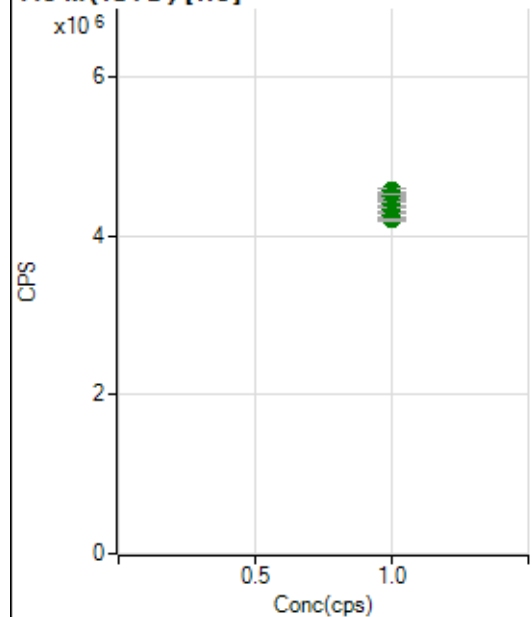
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		13042210.09		A	1.6
2	☐	1.000		13055544.11		A	1.1
3	☐	1.000		12154006.35		A	5.6
4	☐	1.000		11993112.32		A	3.4
5	☐	1.000		12346702.73		A	1.4
6	☐	1.000		12113079.40		A	0.2
7	☐	1.000		11919265.52		A	2.2
8	☐	1.000		10866331.85		A	1.7

103 Rh (ISTD) [He]

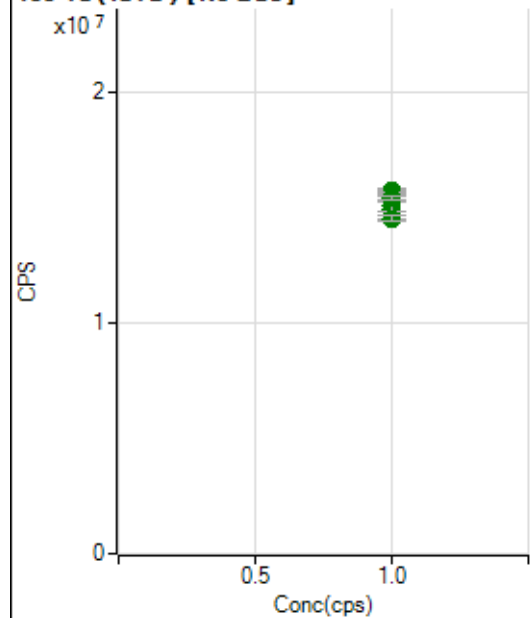
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		7566234.33		A	0.5
2	☐	1.000		7522547.32		A	1.5
3	☐	1.000		7443039.33		A	1.2
4	☐	1.000		7265542.25		A	0.8
5	☐	1.000		7239762.88		A	0.5
6	☐	1.000		7120216.98		A	0.3
7	☐	1.000		6972178.16		A	0.5
8	☐	1.000		6405895.74		A	0.7

115 In (ISTD) [No Gas]

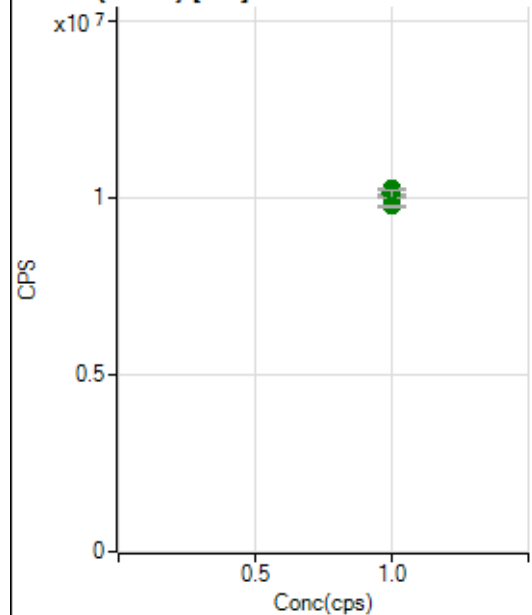
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		13065385.41		A	1.2
2	☐	1.000		12985865.92		A	1.2
3	☐	1.000		12282953.83		A	6.0
4	☐	1.000		12334079.56		A	4.1
5	☐	1.000		12615204.64		A	1.9
6	☐	1.000		12458116.94		A	0.8
7	☐	1.000		12219064.64		A	2.1
8	☐	1.000		11504609.06		A	1.7

115 In (ISTD) [He]

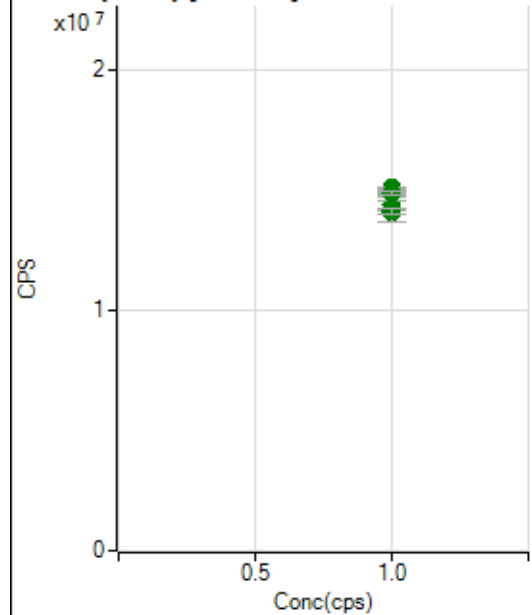
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		4508895.56		A	0.5
2	☐	1.000		4567091.43		A	1.1
3	☐	1.000		4497428.80		A	0.9
4	☐	1.000		4410080.39		A	1.5
5	☐	1.000		4397264.40		A	1.4
6	☐	1.000		4335844.69		A	0.8
7	☐	1.000		4261307.91		A	1.0
8	☐	1.000		4203380.92		A	0.3

159 Tb (ISTD) [No Gas]

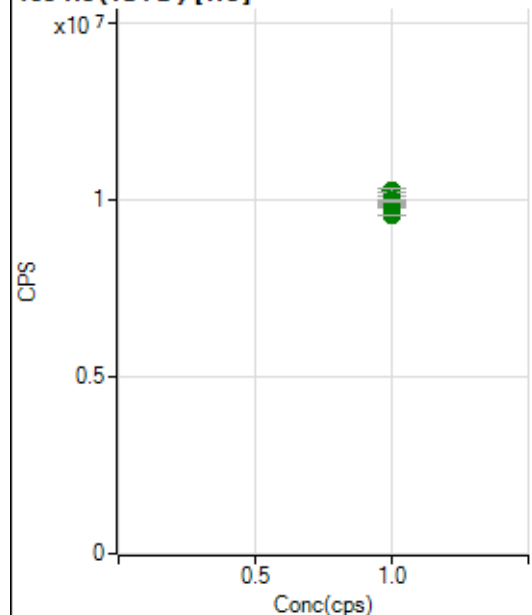
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		15701959.49		A	0.9
2	☐	1.000		15572454.35		A	1.2
3	☐	1.000		14869944.36		A	5.4
4	☐	1.000		15052863.66		A	3.3
5	☐	1.000		15620047.96		A	1.0
6	☐	1.000		15615960.74		A	0.8
7	☐	1.000		15403498.94		A	0.8
8	☐	1.000		14517700.34		A	2.1

159 Tb (ISTD) [He]

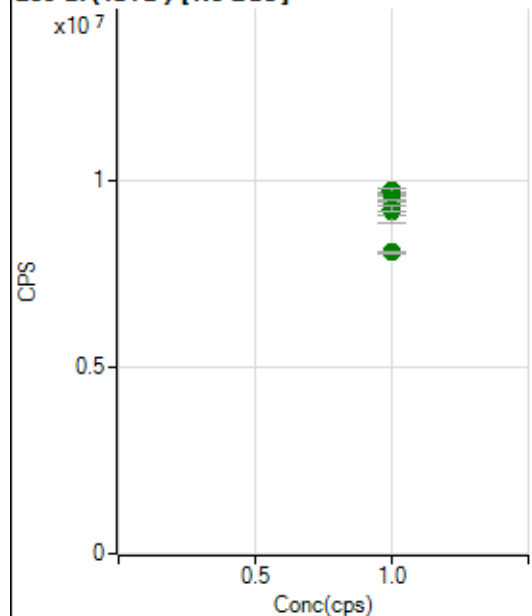
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10022179.78		A	0.9
2	☐	1.000		10157280.20		A	1.1
3	☐	1.000		10154507.56		A	0.8
4	☐	1.000		10085539.64		A	0.6
5	☐	1.000		10206056.65		A	0.5
6	☐	1.000		10245031.38		A	0.3
7	☐	1.000		10099778.95		A	1.7
8	☐	1.000		9756848.26		A	0.3

165 Ho (ISTD) [No Gas]

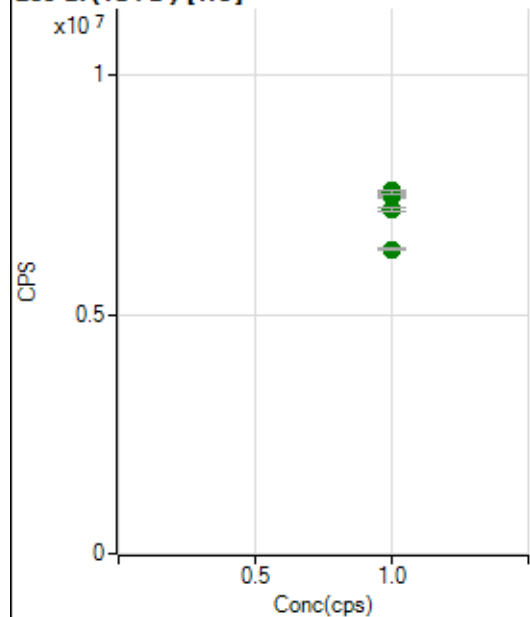
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		14971628.67		A	1.0
2	☐	1.000		14936571.86		A	1.6
3	☐	1.000		14107166.32		A	6.0
4	☐	1.000		14360144.93		A	3.1
5	☐	1.000		14838022.56		A	1.7
6	☐	1.000		15083903.52		A	0.4
7	☐	1.000		14852726.44		A	1.4
8	☐	1.000		14129463.54		A	1.7

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		9875981.03		A	1.7
2	☐	1.000		9947797.56		A	0.2
3	☐	1.000		9840206.10		A	0.4
4	☐	1.000		9882532.28		A	0.4
5	☐	1.000		10116079.57		A	0.2
6	☐	1.000		10244544.92		A	1.0
7	☐	1.000		9970120.62		A	0.2
8	☐	1.000		9569714.72		A	0.1

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		9704455.06		A	1.0
2	☐	1.000		9639084.58		A	0.6
3	☐	1.000		9140359.65		A	5.9
4	☐	1.000		9197315.07		A	2.6
5	☐	1.000		9671572.15		A	2.2
6	☐	1.000		9452414.72		A	0.8
7	☐	1.000		9217169.93		A	1.7
8	☐	1.000		8059155.44		A	0.5

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		7566736.69		A	0.8
2	☐	1.000		7578398.36		A	0.7
3	☐	1.000		7487879.96		A	1.2
4	☐	1.000		7472243.29		A	0.3
5	☐	1.000		7551120.72		A	0.8
6	☐	1.000		7543864.19		A	1.1
7	☐	1.000		7191107.88		A	0.7
8	☐	1.000		6347597.47		A	0.6

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7100522MS.b
Acq. Date-Time 2022-10-05 10:30:40
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		13633	136327.52			0.633	5.000
24		154460	1544598.34			1.000	5.000
25		21058	210581.57			0.363	5.000
26		24579	245790.56			0.392	5.000
59		123930	1239299.22			0.513	5.000
113		11864	118640.31			0.971	5.000
115		148852	1488518.92			0.389	5.000
206		31743	317428.83			1.090	5.000
207		29361	293611.59			0.629	5.000
208		68943	689431.87			0.540	5.000
220		0	3.70			24.548	

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

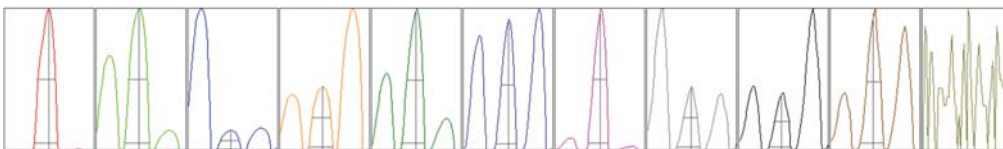
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	13678	13685	13549	13721	13531
24	155139	155498	152801	156050	152810
25	21141	21072	20933	21084	21060
26	24546	24710	24450	24625	24564
59	124684	124263	123136	124146	123420
113	11833	12042	11737	11900	11808
115	148765	148875	148566	149799	148255
206	32097	32101	31655	31539	31323
207	29359	29611	29327	29413	29096
208	69146	69402	68516	69041	68611

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	25294.35	9.00	8.90 - 9.10	
24	262216.77	23.95	23.90 - 24.10	
25	35398.97	24.95	24.90 - 25.10	
26	40647.08	25.95	25.90 - 26.10	
59	240809.20	59.00	58.90 - 59.10	
113	27159.05	113.05	112.90 - 113.10	
115	337969.39	115.05	114.90 - 115.10	
206	70356.68	206.00	205.90 - 206.10	
207	61049.88	206.95	206.90 - 207.10	
208	148399.12	207.95	207.90 - 208.10	
220	0.00	220.00	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.58	0.778	0.900	
24	0.62	0.822	0.900	
25	0.62	0.790	0.900	
26	0.64	0.802	0.900	
59	0.53	0.766	0.900	
113	0.44	0.693	0.900	
115	0.45	0.684	0.900	
206	0.46	0.779	0.900	
207	0.49	0.731	0.900	
208	0.47	0.788	0.900	
220	0.45	0.450		

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	9.5 V	Deflect	15.4 V
Extract 2	-145.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-75 V	Cell Exit	-50 V		

Cell Parameters

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

QP Parameters

Mass Gain	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		41711	417108.82			0.288	
89		62427	624269.68			0.464	
205		49824	498236.00			0.397	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	41600	41579	41742	41865	41769
89	61998	62512	62799	62463	62364
205	49721	49973	50084	49604	49736

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	11.2 V	Deflect	3.4 V
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US EPA Tune Check Report

Extract 2	-180.0 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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