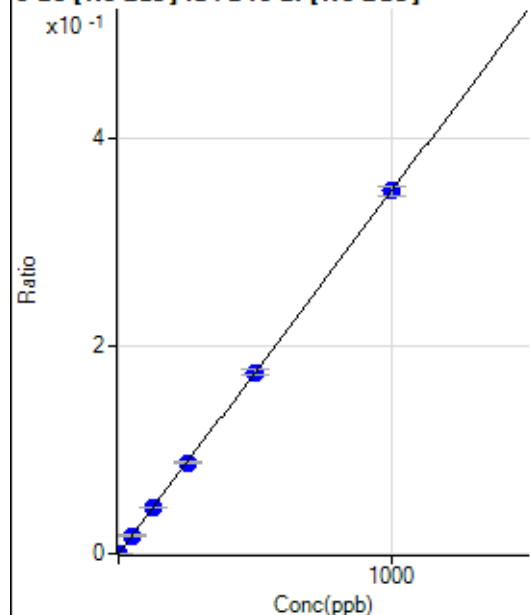


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8041421MS .bst.b\
Analysis File: P8041421MS .bst.batch.bin
DA Date-Time: 2021-04-14 12:43:39
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2021-04-14 11:07:55
2	004CALS.d	S02	2021-04-14 11:10:55
3	006CALS.d	S03	2021-04-14 11:16:53
4	007CALS.d	S04	2021-04-14 11:19:52
5	008CALS.d	S05	2021-04-14 11:22:52
6	009CALS.d	S06	2021-04-14 11:25:50
7	010CALS.d	S07	2021-04-14 11:28:51
8	011CALS.d	S08	2021-04-14 11:31:49

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	75.32	0.0000	P	20.5
2	☐	1.000	1.020	1011.17	0.0004	P	4.3
3	☐	50.000	49.996	46776.99	0.0175	P	1.8
4	☐	125.000	127.341	117510.78	0.0446	P	0.5
5	☐	250.000	249.840	232472.05	0.0874	P	1.6
6	☐	500.000	499.369	472232.53	0.1747	P	3.1
7	☐	1000.000	1000.063	935248.60	0.3498	P	2.8
8	☐			381.93	0.0001	P	10.1

$$y = 3.4979\text{E-}004 * x + 2.9007\text{E-}005$$

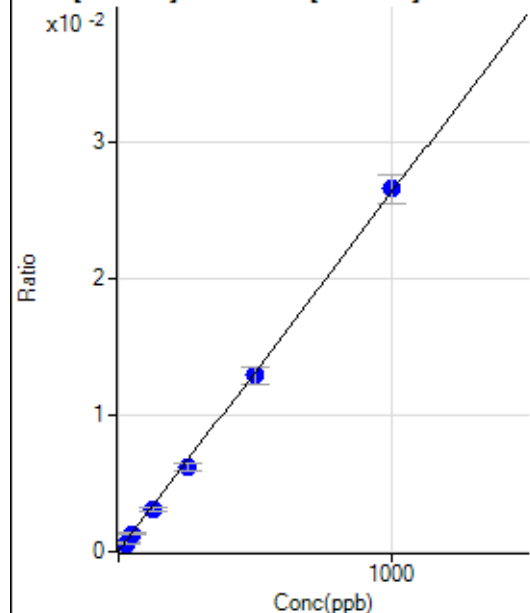
$$R = 1.0000$$

$$DL = 0.05092$$

$$BEC = 0.08293$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	113.98	0.0000	P	13.6
2	☐	25.000	21.268	1580.45	0.0006	P	11.4
3	☐	50.000	47.000	3413.73	0.0013	P	12.3
4	☐	125.000	117.933	8300.07	0.0031	P	10.1
5	☐	250.000	234.516	16526.05	0.0062	P	8.2
6	☐	500.000	489.535	34885.76	0.0129	P	9.9
7	☐	1000.000	1010.230	71104.08	0.0266	P	8.1
8	☐			11025.97	0.0042	P	8.4

$$y = 2.6289\text{E-}005 * x + 4.4116\text{E-}005$$

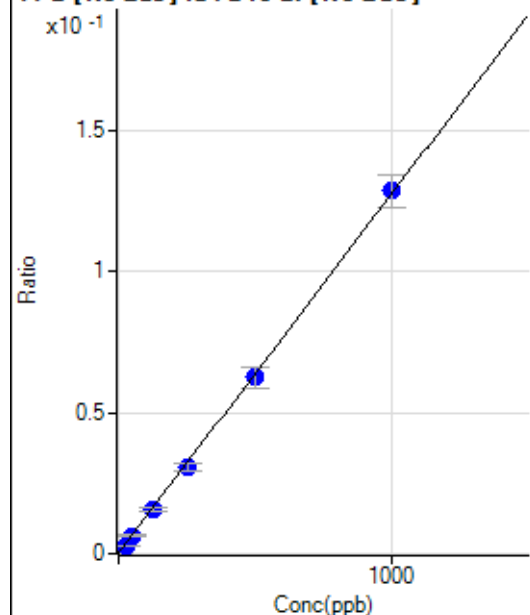
$$R = 0.9998$$

$$DL = 0.6869$$

$$BEC = 1.678$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	561.90	0.0002	P	16.3
2	☐	25.000	20.472	7379.76	0.0028	P	14.0
3	☐	50.000	47.281	16608.84	0.0062	P	13.1
4	☐	125.000	119.338	40608.18	0.0154	P	9.6
5	☐	250.000	239.995	81764.08	0.0307	P	9.0
6	☐	500.000	489.269	168518.66	0.0624	P	11.4
7	☐	1000.000	1008.823	343276.23	0.1284	P	9.0
8	☐			52790.61	0.0199	P	9.5

$$y = 1.2709\text{E-}004 * x + 2.1750\text{E-}004$$

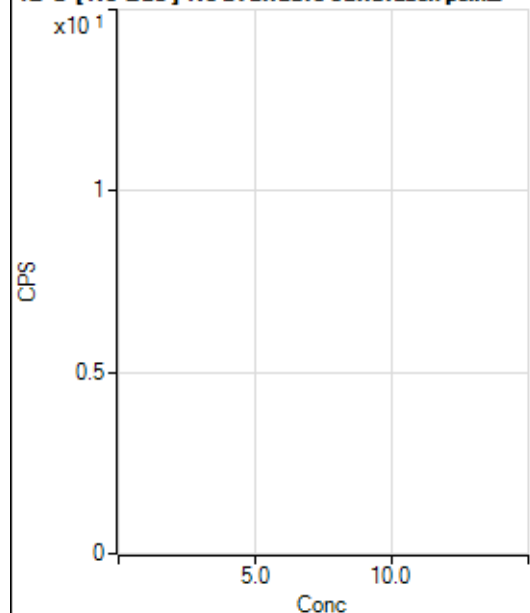
$$R = 0.9999$$

$$DL = 0.8376$$

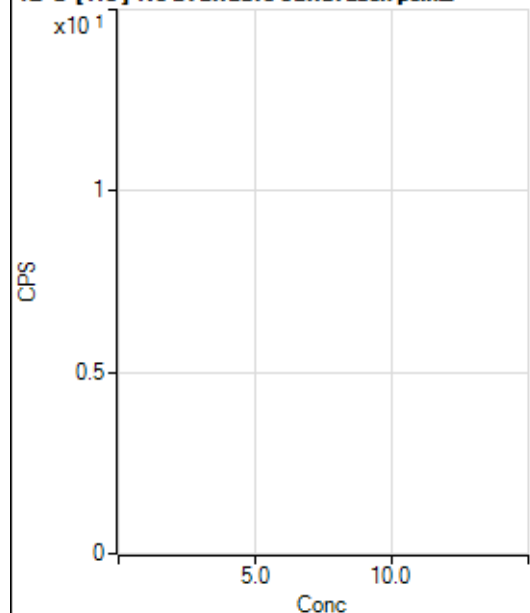
$$BEC = 1.711$$

Weight: <None>

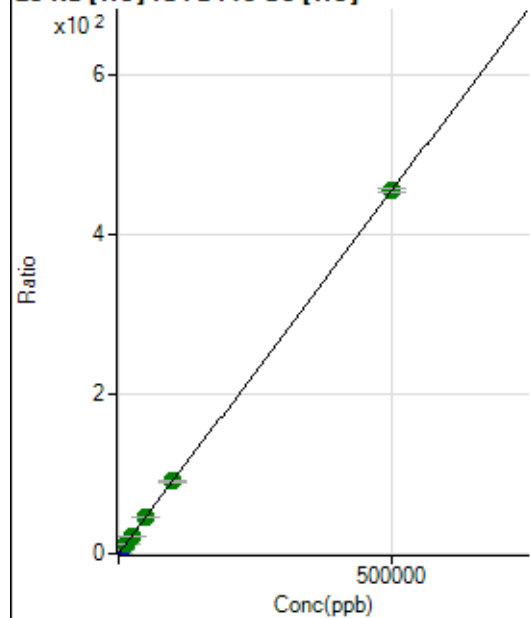
Min Conc: 0

12 C [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			4464075.84		A	0.7
2	☐			4704500.71		A	1.0
3	☐			4932314.78		A	0.6
4	☐			5061332.53		A	0.9
5	☐			5179347.38		A	0.8
6	☐			5384469.39		A	2.0
7	☐			5673117.05		A	2.9
8	☐			5546626.34		A	3.1

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			40155.42		P	1.5
2	☐			42996.79		P	0.9
3	☐			45077.98		P	0.5
4	☐			46928.25		P	0.3
5	☐			47167.88		P	0.9
6	☐			50559.69		P	1.0
7	☐			54055.26		P	1.0
8	☐			54259.00		P	1.6

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	12369.45	0.0911	P	1.5
2	☐	500.000	492.151	72583.71	0.5377	P	1.1
3	☐	5000.000	5137.435	637203.23	4.7533	P	0.7
4	☐	12500.000	12746.993	1581988.50	11.6591	A	0.7
5	☐	25000.000	24620.873	3034676.35	22.4347	A	1.1
6	☐	50000.000	50135.106	6083205.43	45.5890	A	2.0
7	☐	100000.00	99519.311	12010503.74	90.4055	A	2.1
8	☐	500000.00	500094.04	59981697.87	453.9295	A	1.2

$$y = 9.0751\text{E-}004 * x + 0.0911$$

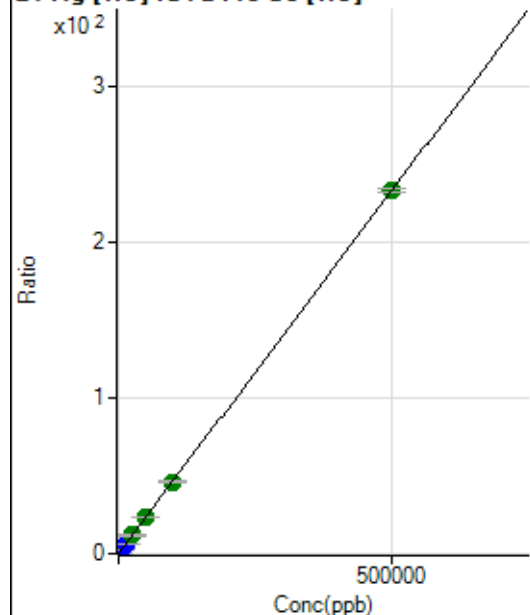
$$R = 1.0000$$

$$DL = 4.476$$

$$BEC = 100.4$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	416.68	0.0031	P	7.1
2	☐	500.000	480.744	30596.68	0.2267	P	2.5
3	☐	5000.000	5204.199	324925.93	2.4238	P	0.4
4	☐	12500.000	12914.050	815490.29	6.0100	P	0.9
5	☐	25000.000	25238.347	1588344.78	11.7427	A	2.0
6	☐	50000.000	50715.265	3148228.70	23.5933	A	1.7
7	☐	100000.00	99161.554	6128202.61	46.1281	A	2.1
8	☐	500000.00	500071.87	30736486.45	232.6119	A	1.1

$$y = 4.6515E-004 * x + 0.0031$$

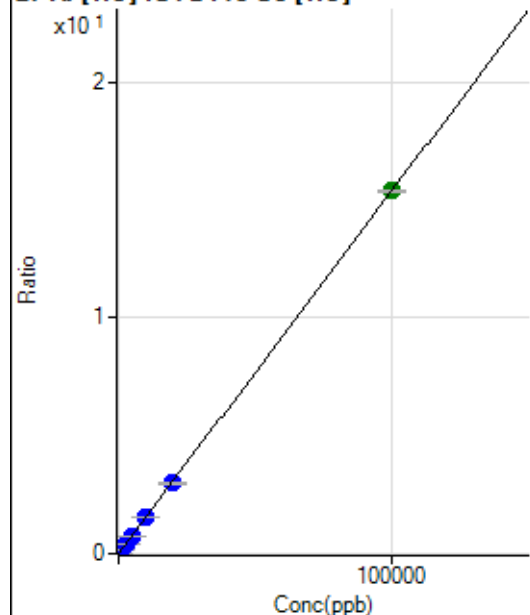
R = 1.0000

DL = 1.412

BEC = 6.593

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	321.63	0.0024	P	5.6
2	☐	20.000	20.946	753.68	0.0056	P	4.0
3	☐	1000.000	993.204	20759.64	0.1549	P	1.5
4	☐	2500.000	2457.959	51526.00	0.3797	P	0.5
5	☐	5000.000	4829.834	100627.53	0.7439	P	0.8
6	☐	10000.000	9915.133	203456.78	1.5247	P	1.5
7	☐	20000.000	19491.445	397892.81	2.9949	P	1.9
8	☐	100000.00	100119.82	2031693.59	15.3741	A	0.7

$$y = 1.5353E-004 * x + 0.0024$$

R = 1.0000

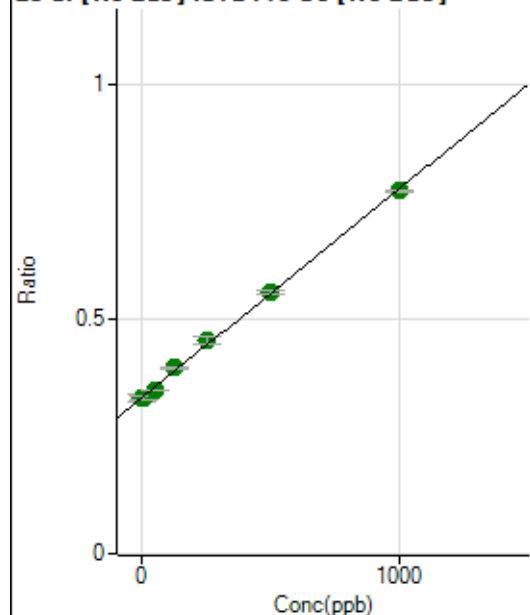
DL = 2.61

BEC = 15.42

Weight: <None>

Min Conc: 0

28 Si [No Gas] ISTD :45 Sc [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1358839.22	0.3322	A	4.8
2	☐	10.000	-2.533	1360466.94	0.3310	A	2.5
3	☐	50.000	34.657	1483980.52	0.3476	A	0.4
4	☐	125.000	142.803	1653992.31	0.3957	A	0.9
5	☐	250.000	274.857	1887438.52	0.4545	A	3.3
6	☐	500.000	505.804	2407513.10	0.5573	A	1.0
7	☐	1000.000	989.551	3382806.41	0.7725	A	0.9
8	☐			1551525.87	0.3600	A	3.7

$$y = 4.4505\text{E-}004 * x + 0.3322$$

R = 0.9991

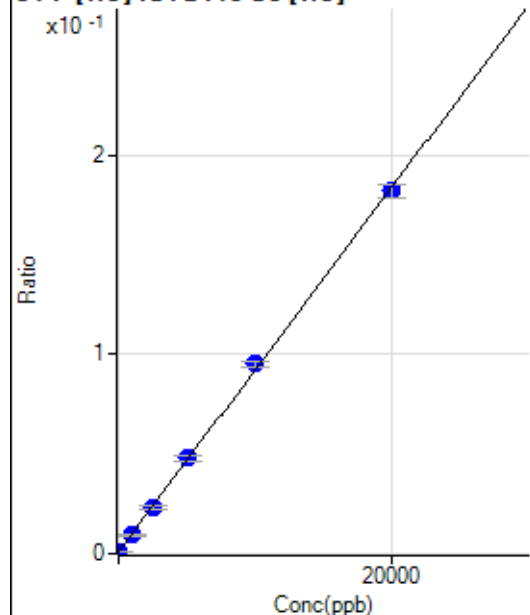
DL = 107.5

BEC = 746.3

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	18.653	158.34	0.0012	P	44.9
2	☐	0.000	-18.653	111.12	0.0008	P	4.7
3	☐	1000.000	912.570	1250.09	0.0093	P	9.9
4	☐	2500.000	2432.195	3147.64	0.0232	P	5.8
5	☐	5000.000	5124.919	6462.70	0.0478	P	4.7
6	☐	10000.000	10303.158	12689.20	0.0951	P	2.6
7	☐	20000.000	19830.038	24178.97	0.1820	P	3.6
8	☐			169.45	0.0013	P	21.2

$$y = 9.1297\text{E-}006 * x + 9.9357\text{E-}004$$

R = 0.9998

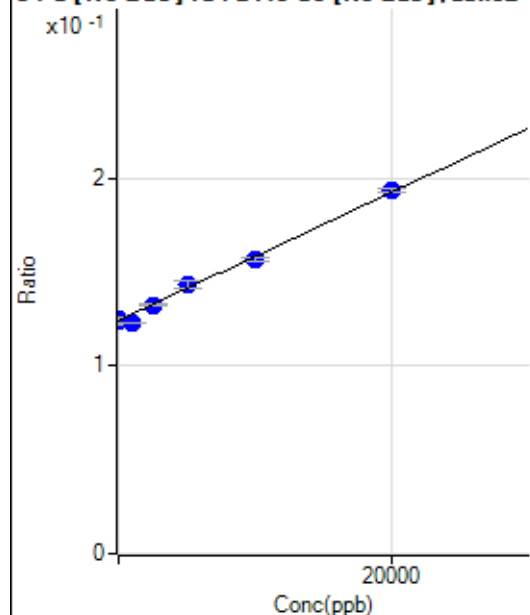
DL = 92.24

BEC = 108.8

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	69.856	509055.81	0.1244	P	4.2
2	☐	0.000	-69.856	509387.33	0.1239	P	2.7
3	☐	1000.000	-356.261	525008.77	0.1230	P	0.5
4	☐	2500.000	2355.876	552656.92	0.1322	P	0.9
5	☐	5000.000	5577.906	594795.92	0.1432	P	3.2
6	☐	10000.000	9485.822	676243.66	0.1565	P	1.3
7	☐	20000.000	20198.441	845505.21	0.1931	P	1.2
8	☐			471443.89	0.1094	P	1.2

$$y = 3.4118\text{E-}006 * x + 0.1242$$

$$R = 0.9968$$

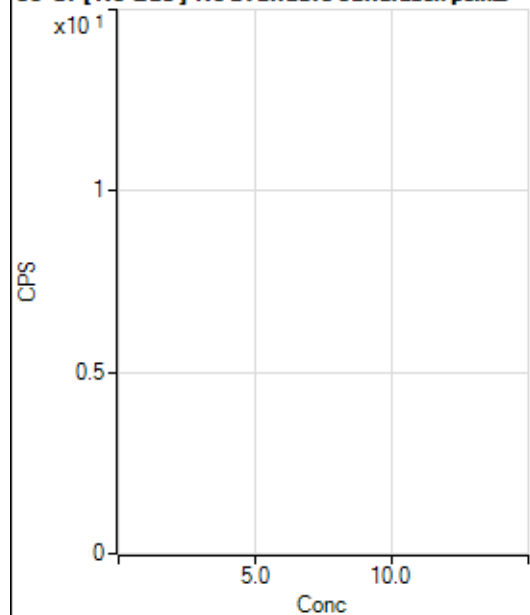
$$DL = 3752$$

$$BEC = 3.64\text{E}+04$$

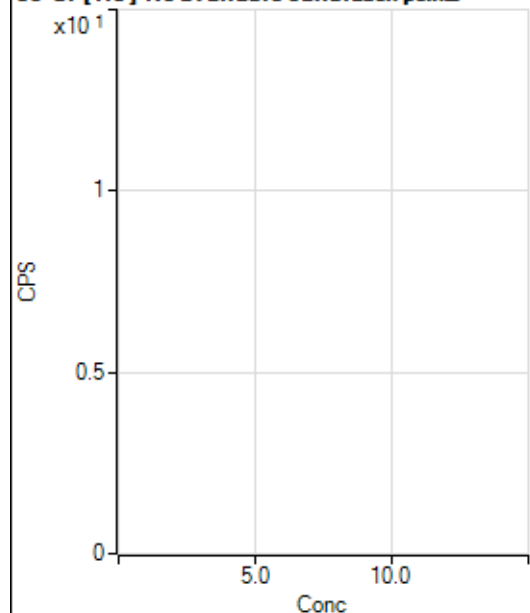
Weight: <None>

Min Conc: 0

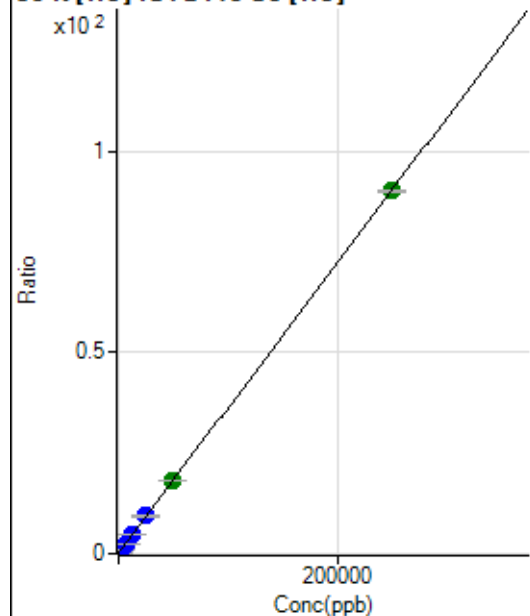
35 Cl [No Gas] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			437265.73		P	0.9
2	☐			420329.99		P	1.0
3	☐			385296.72		P	0.8
4	☐			371206.84		P	1.1
5	☐			356101.44		P	0.6
6	☐			350709.30		P	0.2
7	☐			343740.97		P	0.6
8	☐			334182.18		P	1.2

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			2761.44		P	7.9
2	☐			2739.22		P	7.6
3	☐			2650.31		P	6.3
4	☐			2558.62		P	3.4
5	☐			2228.01		P	5.3
6	☐			2266.91		P	8.1
7	☐			2164.11		P	0.6
8	☐			2080.76		P	5.3

39 K [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	21650.08	0.1594	P	2.1
2	☐	500.000	485.600	45104.34	0.3341	P	0.9
3	☐	2500.000	2577.299	145691.18	1.0868	P	0.5
4	☐	6250.000	6394.545	333816.41	2.4603	P	1.5
5	☐	12500.000	12506.609	630273.29	4.6595	P	1.3
6	☐	25000.000	25495.307	1245332.22	9.3330	P	2.0
7	☐	50000.000	50047.395	2413797.69	18.1672	A	1.9
8	☐	250000.00	249936.30	11904690.28	90.0900	A	0.8

$$y = 3.5981E-004 * x + 0.1594$$

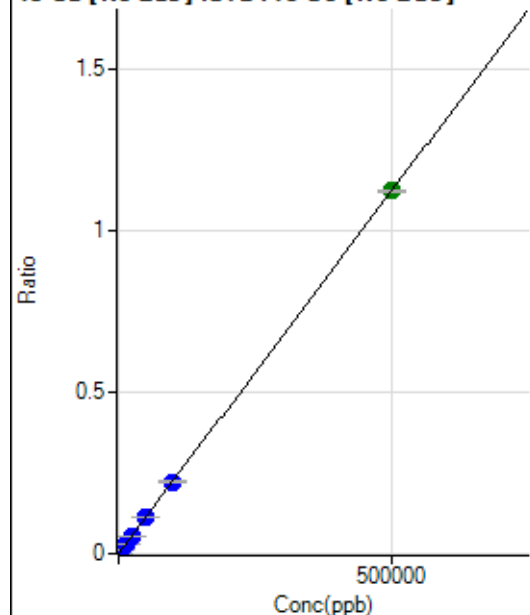
$$R = 1.0000$$

$$DL = 27.54$$

$$BEC = 443.1$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	373.29	0.0001	P	10.3
2	☐	500.000	469.903	4710.19	0.0011	P	4.8
3	☐	5000.000	4850.245	46878.83	0.0110	P	1.5
4	☐	12500.000	12545.558	118113.06	0.0283	P	0.8
5	☐	25000.000	24958.952	233259.52	0.0561	P	0.9
6	☐	50000.000	49769.350	483042.24	0.1118	P	2.7
7	☐	100000.00	98855.224	972187.16	0.2220	P	1.6
8	☐	500000.00	500254.46	4840724.71	1.1232	A	0.4

$$y = 2.2450\text{E-}006 * x + 9.1393\text{E-}005$$

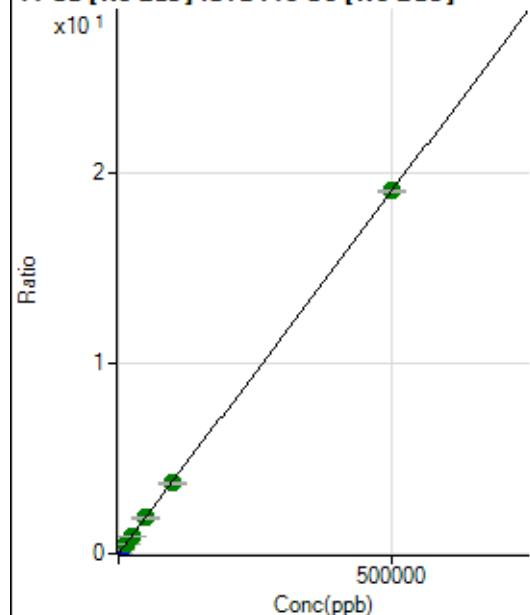
$$R = 1.0000$$

$$DL = 12.58$$

$$BEC = 40.71$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	24937.25	0.0061	P	3.8
2	☐	500.000	462.167	97194.21	0.0237	P	3.4
3	☐	5000.000	4775.552	800542.04	0.1875	P	2.0
4	☐	12500.000	12487.314	2008218.26	0.4805	A	1.2
5	☐	25000.000	24671.340	3922698.55	0.9433	A	1.4
6	☐	50000.000	49083.936	8080891.21	1.8707	A	2.6
7	☐	100000.00	96796.695	16127669.38	3.6833	A	1.5
8	☐	500000.00	500751.30	82012046.13	19.0291	A	0.7

$$y = 3.7989\text{E-}005 * x + 0.0061$$

$$R = 1.0000$$

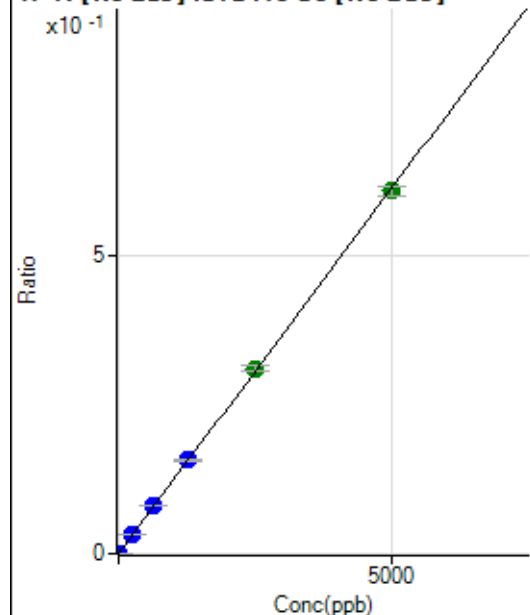
$$DL = 18.15$$

$$BEC = 160.4$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	272.23	0.0001	P	19.2
2	☐	5.000	5.104	2842.02	0.0007	P	4.7
3	☐	250.000	251.553	131806.02	0.0309	P	1.1
4	☐	625.000	652.926	334493.55	0.0800	P	0.6
5	☐	1250.000	1285.089	654182.47	0.1574	P	1.4
6	☐	2500.000	2538.498	1343023.27	0.3109	A	2.9
7	☐	5000.000	4968.410	2664547.82	0.6085	A	2.4
8	☐			700.04	0.0002	P	11.9

$$y = 1.2246\text{E-}004 * x + 6.6452\text{E-}005$$

$$R = 0.9999$$

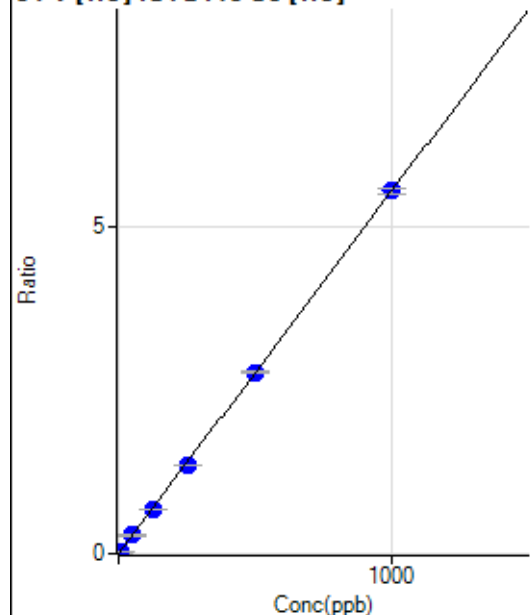
$$DL = 0.3122$$

$$BEC = 0.5426$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	4.44	0.0000	P	42.7
2	☐	5.000	4.945	3708.30	0.0275	P	4.0
3	☐	50.000	50.422	37510.14	0.2798	P	1.0
4	☐	125.000	123.598	93061.06	0.6859	P	0.7
5	☐	250.000	244.635	183621.87	1.3575	P	1.2
6	☐	500.000	500.522	370617.68	2.7774	P	1.3
7	☐	1000.000	1001.235	738106.23	5.5557	P	1.9
8	☐			78.89	0.0006	P	7.8

$$y = 0.0055 * x + 3.2663\text{E-}005$$

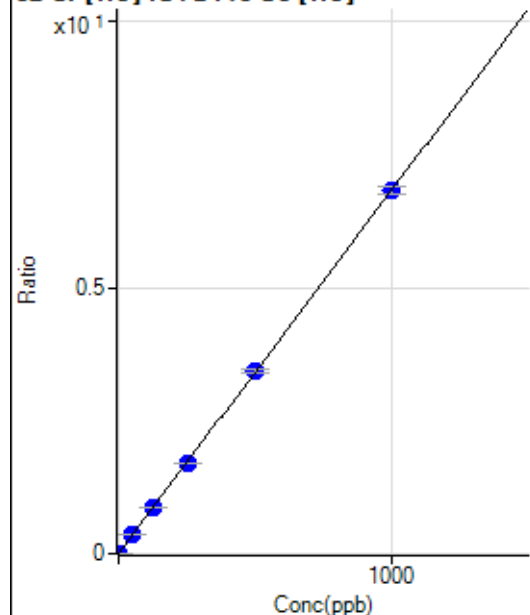
$$R = 1.0000$$

$$DL = 0.007545$$

$$BEC = 0.005886$$

Weight: <None>

Min Conc: 0

52 Cr [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	493.35	0.0036	P	5.0
2	☐	2.000	1.949	2285.76	0.0169	P	2.7
3	☐	50.000	50.685	46852.04	0.3495	P	0.5
4	☐	125.000	125.545	116730.39	0.8603	P	0.9
5	☐	250.000	246.928	228412.62	1.6886	P	0.7
6	☐	500.000	503.550	458987.21	3.4397	P	1.5
7	☐	1000.000	998.891	905979.70	6.8197	P	2.3
8	☐			4856.43	0.0368	P	4.5

$$y = 0.0068 * x + 0.0036$$

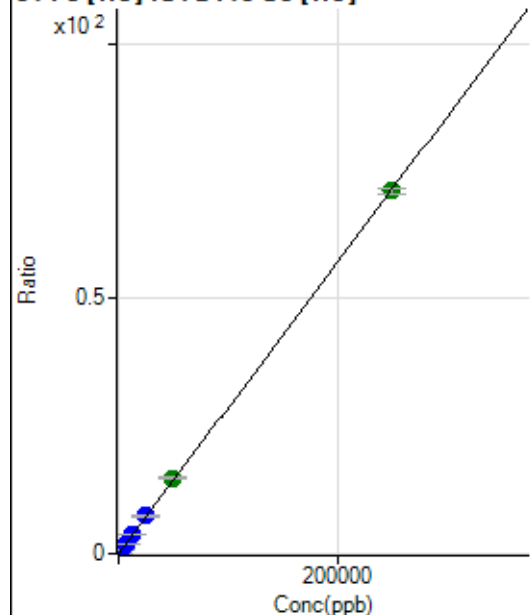
$$R = 1.0000$$

$$DL = 0.08015$$

$$BEC = 0.5322$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	359.27	0.0026	P	28.8
2	☐	50.000	49.881	2276.14	0.0169	P	7.0
3	☐	2500.000	2617.907	100328.92	0.7484	P	0.2
4	☐	6250.000	6437.343	249175.35	1.8364	P	0.6
5	☐	12500.000	12698.684	489675.74	3.6201	P	1.1
6	☐	25000.000	25978.465	987816.08	7.4030	P	2.0
7	☐	50000.000	52023.384	1969076.78	14.8223	A	2.7
8	☐	250000.00	249481.68	9391439.91	71.0714	A	1.5

$$y = 2.8487E-004 * x + 0.0026$$

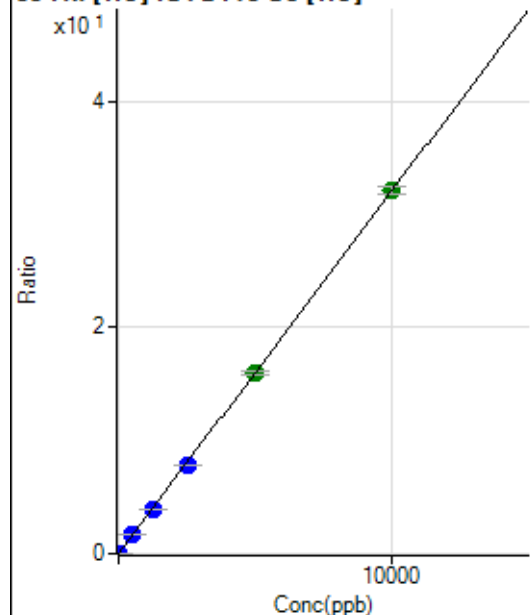
$$R = 1.0000$$

$$DL = 8.025$$

$$BEC = 9.302$$

Weight: <None>

Min Conc: 0

55 Mn [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	62.22	0.0005	P	10.6
2	☐	1.000	0.937	466.68	0.0035	P	15.9
3	☐	500.000	505.138	216813.68	1.6173	P	0.2
4	☐	1250.000	1241.009	539041.32	3.9727	P	0.4
5	☐	2500.000	2453.174	1062217.65	7.8527	P	0.9
6	☐	5000.000	4996.375	2134085.82	15.9930	A	2.1
7	☐	10000.000	10014.386	4258697.65	32.0549	A	2.1
8	☐			2466.91	0.0187	P	0.7

$$y = 0.0032 * x + 4.5802E-004$$

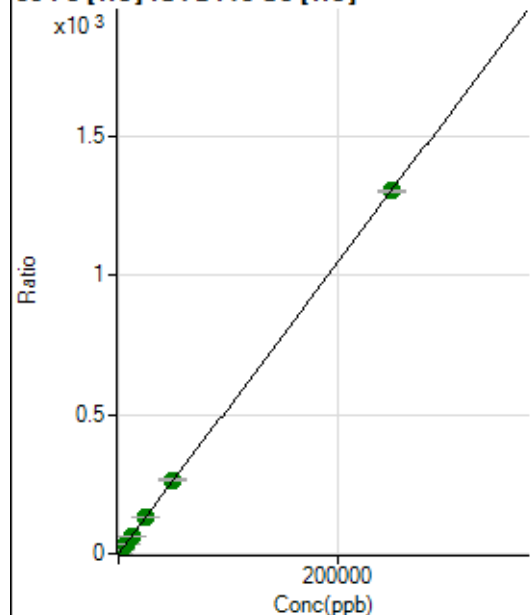
$$R = 1.0000$$

$$DL = 0.04571$$

$$BEC = 0.1431$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	2074.26	0.0153	P	3.9
2	☐	50.000	50.152	37345.36	0.2767	P	1.7
3	☐	2500.000	2592.746	1813536.84	13.5290	A	1.8
4	☐	6250.000	6305.807	4461599.29	32.8819	A	0.5
5	☐	12500.000	12403.966	8747520.22	64.6662	A	0.6
6	☐	25000.000	25103.469	17462000.86	130.8575	A	1.4
7	☐	50000.000	50672.440	35089900.55	264.1259	A	2.5
8	☐	250000.00	249857.64	172083476.0	1,302.302	A	0.8

$$y = 0.0052 * x + 0.0153$$

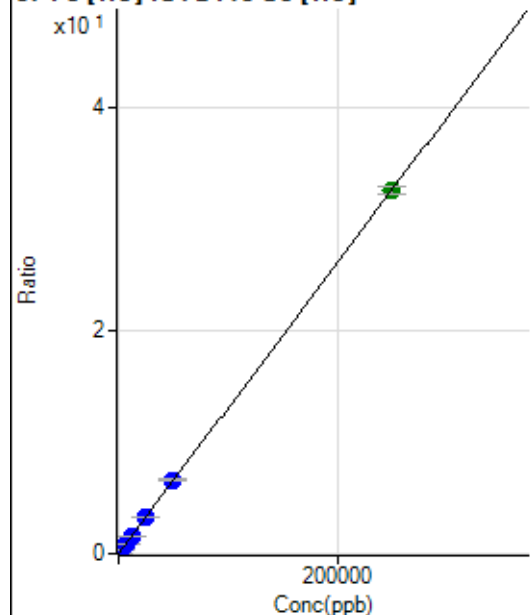
$$R = 1.0000$$

$$DL = 0.3413$$

$$BEC = 2.931$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	90.74	0.0007	P	24.7
2	☐	50.000	50.828	981.53	0.0073	P	1.2
3	☐	2500.000	2542.221	44365.37	0.3310	P	2.4
4	☐	6250.000	6251.548	110300.92	0.8129	P	0.7
5	☐	12500.000	12440.592	218732.00	1.6170	P	1.3
6	☐	25000.000	25339.606	439384.77	3.2930	P	2.4
7	☐	50000.000	50693.191	875107.04	6.5871	P	2.1
8	☐	250000.00	249829.91	4289353.74	32.4605	A	2.0

$$y = 1.2993\text{E-}004 * x + 6.6736\text{E-}004$$

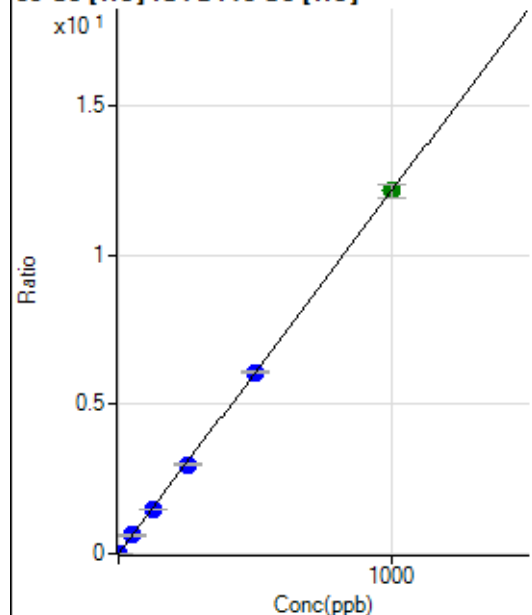
$$R = 1.0000$$

$$DL = 3.812$$

$$BEC = 5.136$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	45.56	0.0003	P	4.6
2	☐	1.000	0.971	1639.00	0.0121	P	2.1
3	☐	50.000	50.617	82515.04	0.6156	P	1.4
4	☐	125.000	124.495	205360.74	1.5135	P	0.1
5	☐	250.000	246.506	405319.11	2.9965	P	1.3
6	☐	500.000	500.813	812323.46	6.0874	P	1.2
7	☐	1000.000	1000.500	1615258.34	12.1608	A	3.5
8	☐			2352.44	0.0178	P	1.7

$$y = 0.0122 * x + 3.3550\text{E-}004$$

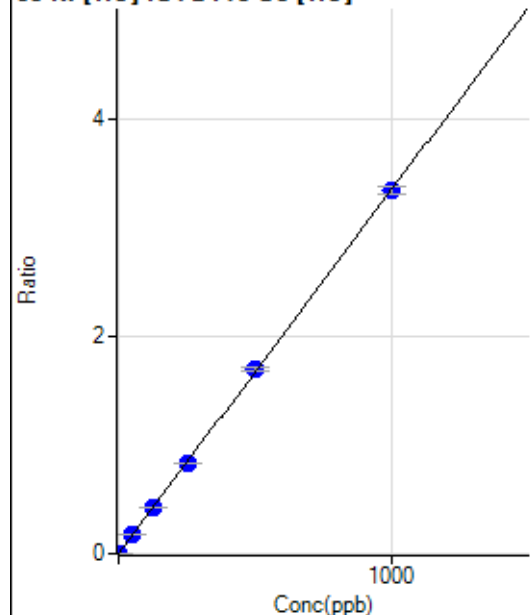
$$R = 1.0000$$

$$DL = 0.00385$$

$$BEC = 0.0276$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	44.44	0.0003	P	11.1
2	☐	1.000	1.019	505.57	0.0037	P	3.6
3	☐	50.000	51.804	23333.65	0.1741	P	1.2
4	☐	125.000	126.299	57516.69	0.4239	P	1.2
5	☐	250.000	248.495	112781.52	0.8337	P	0.3
6	☐	500.000	506.365	226641.78	1.6985	P	2.1
7	☐	1000.000	996.941	444231.42	3.3438	P	2.1
8	☐			1625.67	0.0123	P	3.6

$$y = 0.0034 * x + 3.2719E-004$$

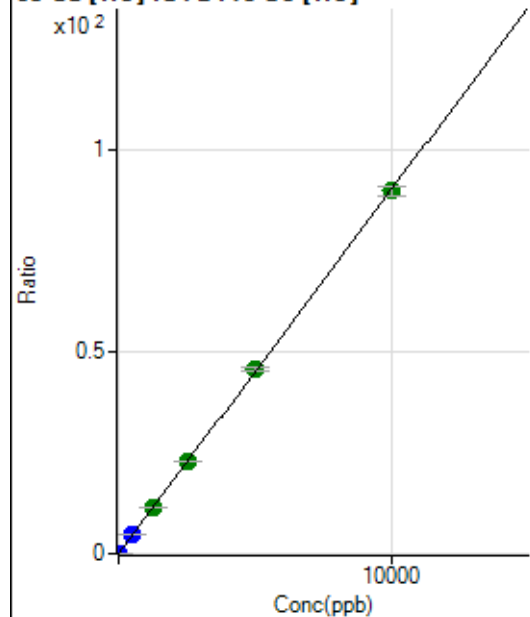
$$R = 1.0000$$

$$DL = 0.03251$$

$$BEC = 0.09756$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	831.14	0.0061	P	7.8
2	☐	2.000	2.396	3748.32	0.0278	P	2.1
3	☐	500.000	519.089	629596.49	4.6966	P	0.8
4	☐	1250.000	1284.722	1575967.88	11.6148	A	0.6
5	☐	2500.000	2525.509	3087697.03	22.8265	A	0.9
6	☐	5000.000	5053.885	6094105.26	45.6728	A	2.2
7	☐	10000.000	9961.385	11958337.46	90.0168	A	2.4
8	☐			7985.63	0.0604	P	0.6

$$y = 0.0090 * x + 0.0061$$

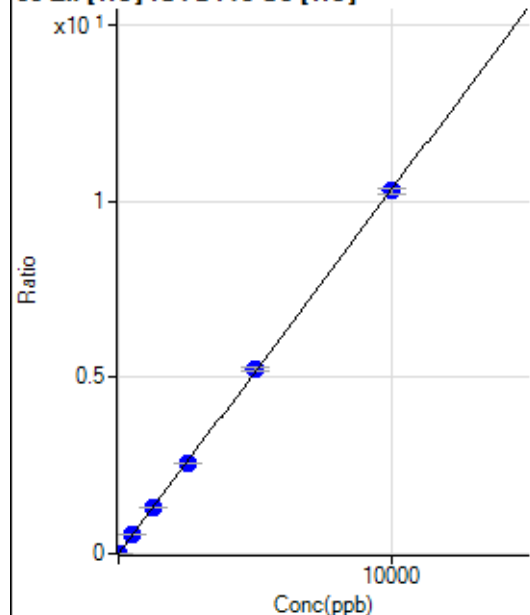
$$R = 1.0000$$

$$DL = 0.1582$$

$$BEC = 0.6775$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	97.78	0.0007	P	12.0
2	☐	2.000	1.843	354.45	0.0026	P	9.5
3	☐	500.000	514.877	71452.17	0.5330	P	0.3
4	☐	1250.000	1261.314	177022.59	1.3047	P	0.7
5	☐	2500.000	2482.861	347300.77	2.5675	P	0.7
6	☐	5000.000	5070.132	699537.30	5.2422	P	1.4
7	☐	10000.000	9967.061	1369007.77	10.3045	P	1.9
8	☐			1890.15	0.0143	P	5.7

$$y = 0.0010 * x + 7.2008E-004$$

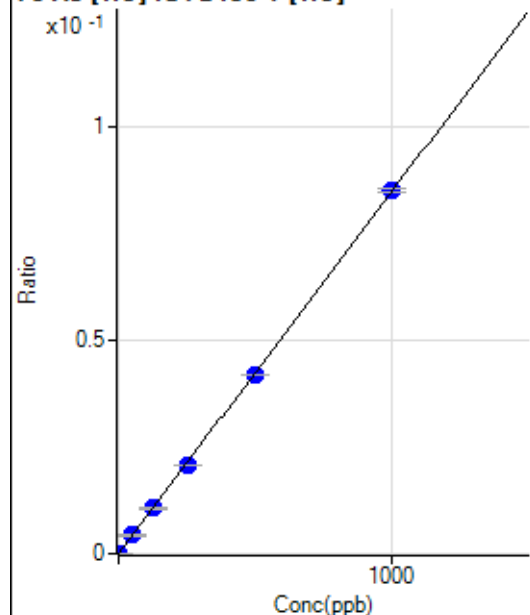
$$R = 1.0000$$

$$DL = 0.2512$$

$$BEC = 0.6965$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	7.00	0.0000	P	38.7
2	☐	1.000	1.081	115.01	0.0001	P	8.0
3	☐	50.000	50.498	5003.40	0.0043	P	1.5
4	☐	125.000	125.443	12539.15	0.0106	P	1.4
5	☐	250.000	244.589	24656.90	0.0208	P	0.8
6	☐	500.000	495.988	49564.95	0.0421	P	0.3
7	☐	1000.000	1003.278	98100.14	0.0851	P	1.2
8	☐			46.34	0.0000	P	10.0

$$y = 8.4836E-005 * x + 5.9255E-006$$

$$R = 1.0000$$

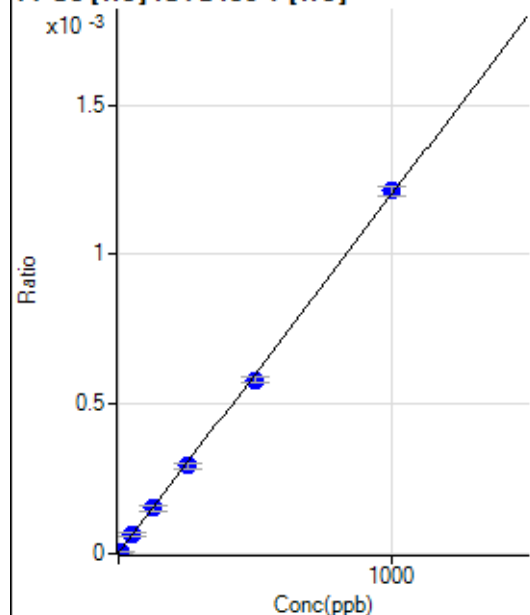
$$DL = 0.08119$$

$$BEC = 0.06985$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	2.22	0.0000	P	86.6
2	☐	5.000	3.942	7.78	0.0000	P	89.1
3	☐	50.000	51.670	74.44	0.0001	P	18.0
4	☐	125.000	125.259	178.89	0.0002	P	11.7
5	☐	250.000	242.871	347.79	0.0003	P	7.9
6	☐	500.000	482.556	683.36	0.0006	P	3.4
7	☐	1000.000	1010.393	1397.86	0.0012	P	2.4
8	☐			5.56	0.0000	P	34.8

$$y = 1.1982\text{E-}006 * x + 1.8656\text{E-}006$$

$$R = 0.9997$$

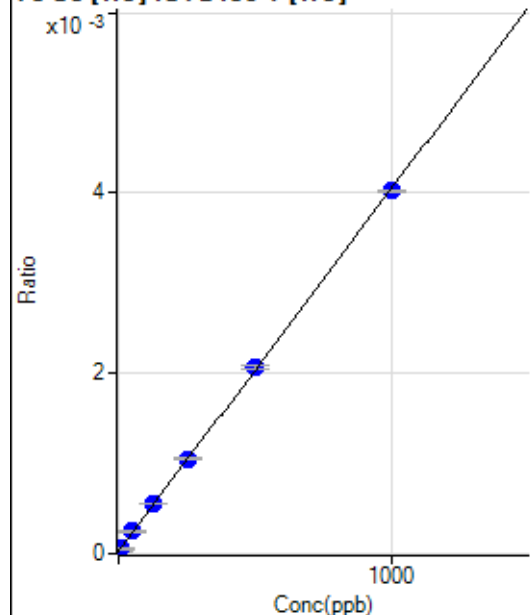
$$DL = 4.045$$

$$BEC = 1.557$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	34.34	0.0000	P	39.9
2	☐	5.000	6.374	64.34	0.0001	P	6.0
3	☐	50.000	54.875	291.03	0.0002	P	4.6
4	☐	125.000	130.742	652.75	0.0006	P	3.3
5	☐	250.000	254.915	1251.18	0.0011	P	2.1
6	☐	500.000	508.079	2438.13	0.0021	P	2.1
7	☐	1000.000	993.763	4635.24	0.0040	P	0.7
8	☐			46.67	0.0000	P	15.5

$$y = 4.0177\text{E-}006 * x + 2.9034\text{E-}005$$

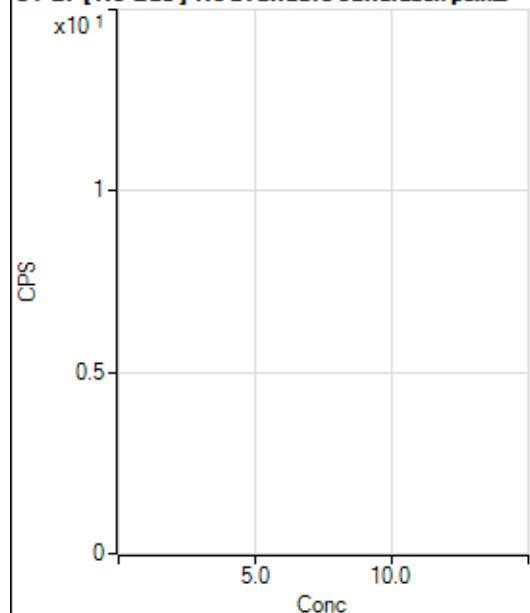
$$R = 0.9999$$

$$DL = 8.653$$

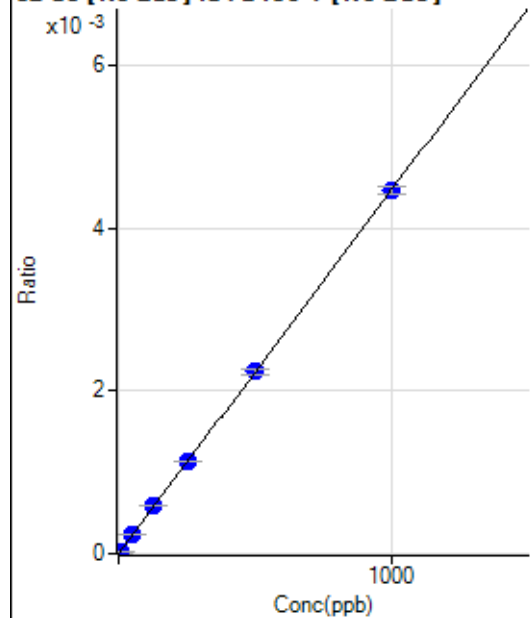
$$BEC = 7.226$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			7806.98		P	6.0
2	☐			7746.83		P	1.9
3	☐			7436.34		P	12.3
4	☐			7179.26		P	2.9
5	☐			7583.21		P	1.4
6	☐			7553.16		P	1.9
7	☐			7913.71		P	0.4
8	☐			8457.96		P	1.3

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	-10.20	0.0000	P	-1407.
2	☐	5.000	4.621	230.37	0.0000	P	45.8
3	☐	50.000	51.498	2726.82	0.0002	P	3.7
4	☐	125.000	132.186	6833.41	0.0006	P	2.2
5	☐	250.000	252.992	13140.17	0.0011	P	1.5
6	☐	500.000	500.840	26654.31	0.0022	P	3.6
7	☐	1000.000	997.861	53013.40	0.0045	P	2.0
8	☐			181.19	0.0000	P	136.2

$$y = 4.4726E-006 * x - 8.7382E-007$$

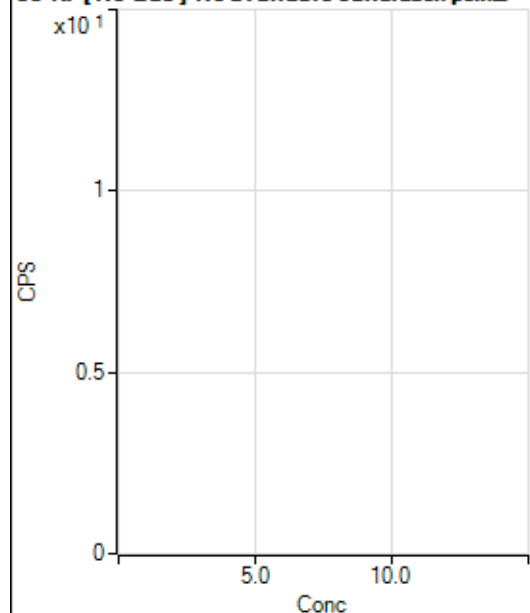
$$R = 1.0000$$

$$DL = 8.251$$

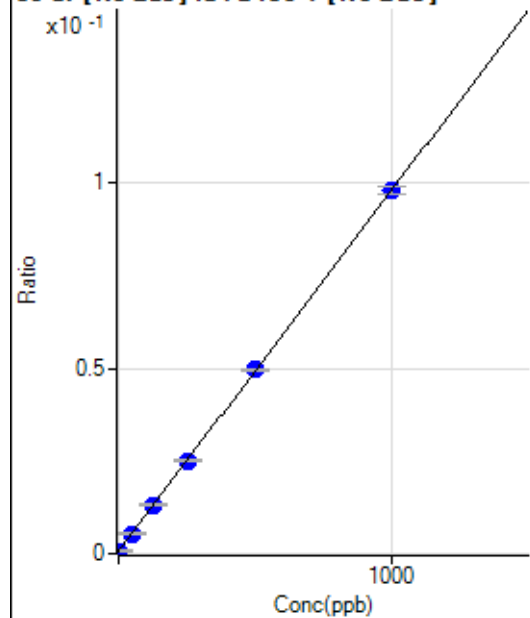
$$BEC = -0.1954$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			4957.59		P	0.7
2	☐			5055.41		P	1.4
3	☐			4890.89		P	4.0
4	☐			4862.00		P	1.0
5	☐			4947.59		P	1.0
6	☐			4972.05		P	2.9
7	☐			4962.04		P	3.3
8	☐			5005.39		P	4.1

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	7949.70	0.0007	P	4.7
2	☐	1.000	0.728	8847.47	0.0008	P	4.6
3	☐	50.000	48.795	64588.60	0.0054	P	4.2
4	☐	125.000	127.446	151440.32	0.0131	P	2.4
5	☐	250.000	250.133	290723.80	0.0250	P	1.3
6	☐	500.000	502.177	589357.16	0.0495	P	1.9
7	☐	1000.000	998.633	1161354.79	0.0978	P	2.2
8	☐			15005.57	0.0013	P	0.6

$$y = 9.7202\text{E-}005 * x + 6.9515\text{E-}004$$

$$R = 1.0000$$

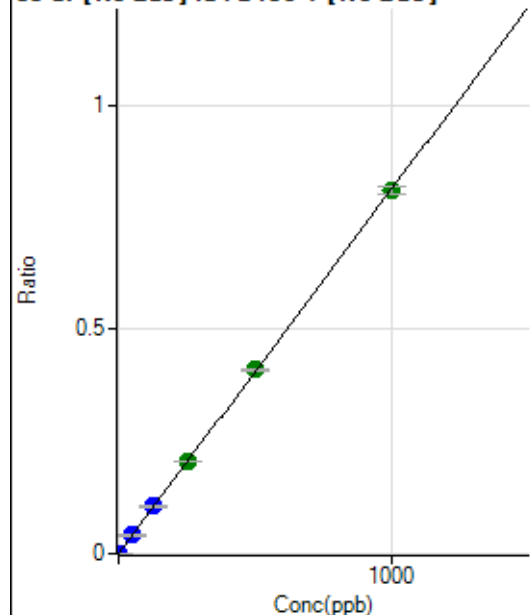
$$DL = 1.016$$

$$BEC = 7.152$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	77.78	0.0000	P	17.3
2	☐	1.000	1.012	9586.87	0.0008	P	2.1
3	☐	50.000	50.282	485730.41	0.0409	P	3.5
4	☐	125.000	130.517	1228461.50	0.1061	P	2.4
5	☐	250.000	254.414	2404465.70	0.2069	A	1.2
6	☐	500.000	505.053	4888973.51	0.4107	A	1.3
7	☐	1000.000	995.666	9618474.78	0.8096	A	2.0
8	☐			58885.75	0.0050	P	1.9

$$y = 8.1313\text{E-}004 * x + 6.7503\text{E-}006$$

$$R = 1.0000$$

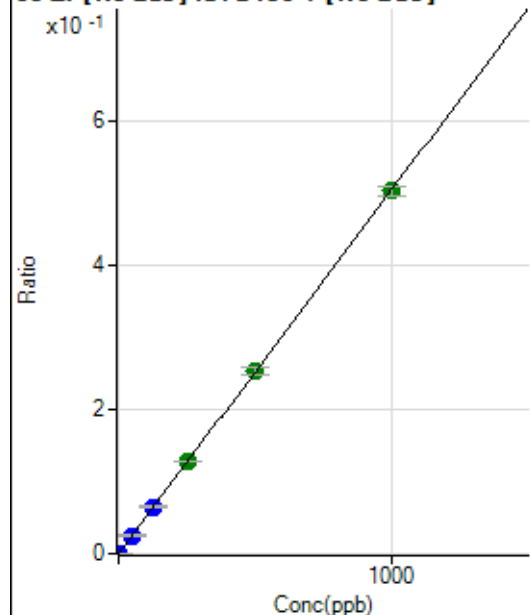
$$DL = 0.004313$$

$$BEC = 0.008302$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	538.91	0.0000	P	6.7
2	☐	1.000	0.978	6240.46	0.0005	P	4.8
3	☐	50.000	49.771	298753.92	0.0251	P	2.7
4	☐	125.000	129.232	755135.32	0.0652	P	1.0
5	☐	250.000	252.936	1483137.93	0.1276	A	1.0
6	☐	500.000	502.134	3015452.91	0.2533	A	3.3
7	☐	1000.000	997.682	5977797.48	0.5032	A	2.4
8	☐			2394.71	0.0002	P	2.6

$$y = 5.0435\text{E-}004 * x + 4.6969\text{E-}005$$

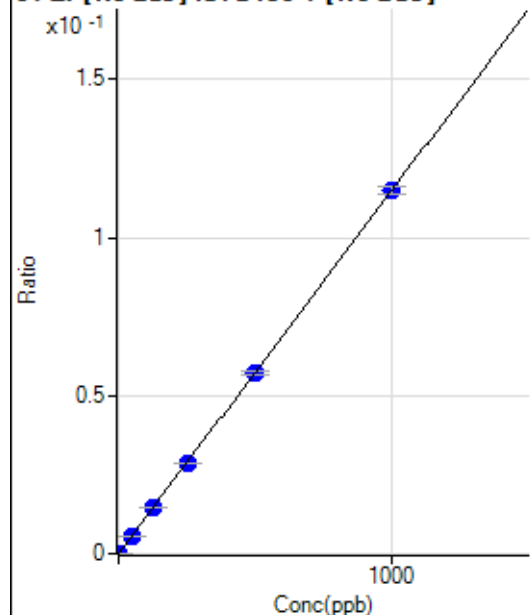
$$R = 1.0000$$

$$DL = 0.01871$$

$$BEC = 0.09313$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	75.00	0.0000	P	44.3
2	☐	1.000	0.914	1288.98	0.0001	P	5.4
3	☐	50.000	48.989	66830.17	0.0056	P	2.9
4	☐	125.000	126.960	168612.35	0.0146	P	3.2
5	☐	250.000	248.451	331331.74	0.0285	P	1.1
6	☐	500.000	500.371	683328.29	0.0574	P	2.2
7	☐	1000.000	1000.007	1362670.72	0.1147	P	2.2
8	☐			458.35	0.0000	P	1.4

$$y = 1.1470\text{E-}004 * x + 6.6521\text{E-}006$$

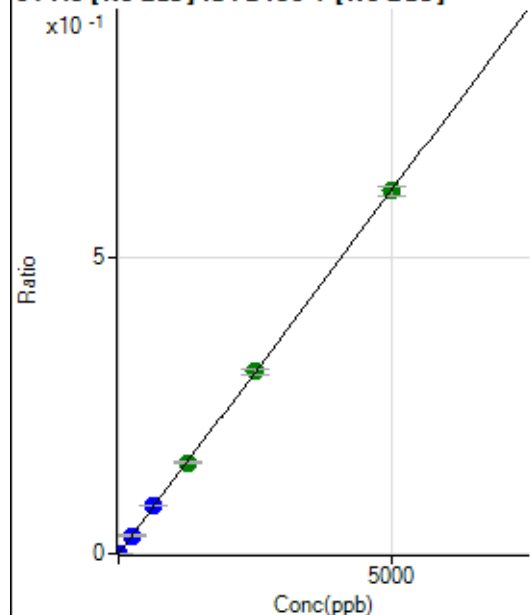
$$R = 1.0000$$

$$DL = 0.07714$$

$$BEC = 0.05799$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	147.23	0.0000	P	26.1
2	☐	5.000	4.685	6790.73	0.0006	P	6.2
3	☐	250.000	248.036	361784.96	0.0305	P	4.1
4	☐	625.000	653.154	928456.27	0.0802	P	1.2
5	☐	1250.000	1255.139	1790180.53	0.1541	A	2.4
6	☐	2500.000	2504.143	3659205.25	0.3074	A	3.1
7	☐	5000.000	4993.223	7281839.66	0.6130	A	2.6
8	☐			3311.60	0.0003	P	11.0

$$y = 1.2275\text{E-}004 * x + 1.2946\text{E-}005$$

$$R = 1.0000$$

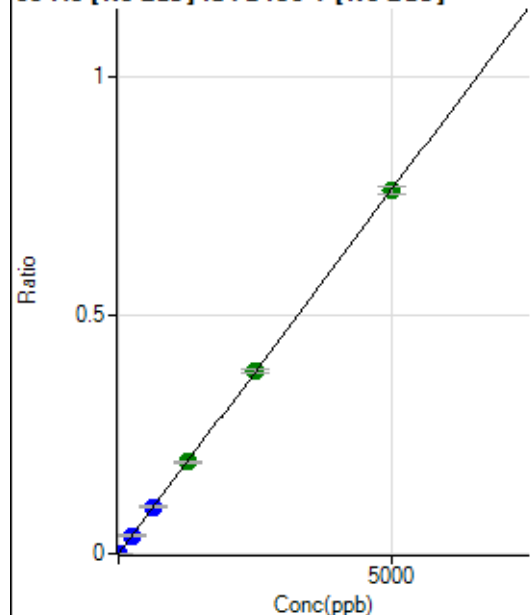
$$DL = 0.08271$$

$$BEC = 0.1055$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	25.00	0.0000	P	89.5
2	☐	5.000	4.760	8425.02	0.0007	P	4.3
3	☐	250.000	249.185	452127.31	0.0381	P	3.6
4	☐	625.000	646.017	1142288.24	0.0987	P	1.8
5	☐	1250.000	1259.399	2235996.08	0.1924	A	0.7
6	☐	2500.000	2516.561	4575825.10	0.3844	A	2.2
7	☐	5000.000	4986.784	9048681.97	0.7617	A	2.1
8	☐			3947.90	0.0003	P	11.3

$$y = 1.5274\text{E-}004 * x + 2.2487\text{E-}006$$

$$R = 1.0000$$

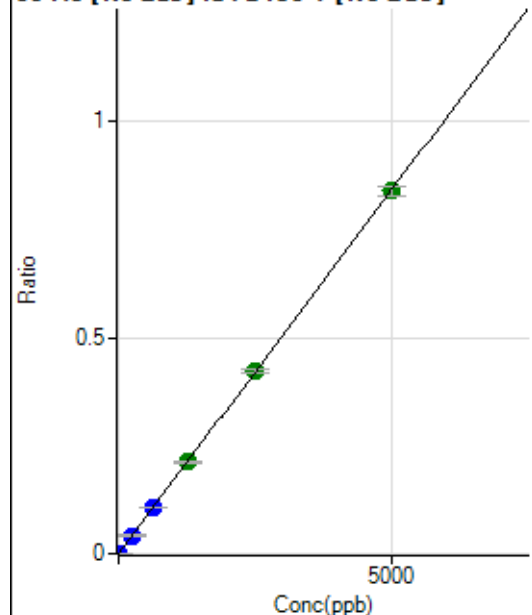
$$DL = 0.03952$$

$$BEC = 0.01472$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	83.33	0.0000	P	35.6
2	☐	5.000	4.720	9253.36	0.0008	P	5.4
3	☐	250.000	247.797	495134.04	0.0417	P	4.9
4	☐	625.000	636.226	1239085.40	0.1070	P	2.3
5	☐	1250.000	1259.618	2463480.02	0.2119	A	1.9
6	☐	2500.000	2514.628	5035949.94	0.4230	A	1.5
7	☐	5000.000	4988.989	9969584.60	0.8393	A	2.8
8	☐			6140.42	0.0005	P	9.7

$$y = 1.6823\text{E-}004 * x + 7.2958\text{E-}006$$

$$R = 1.0000$$

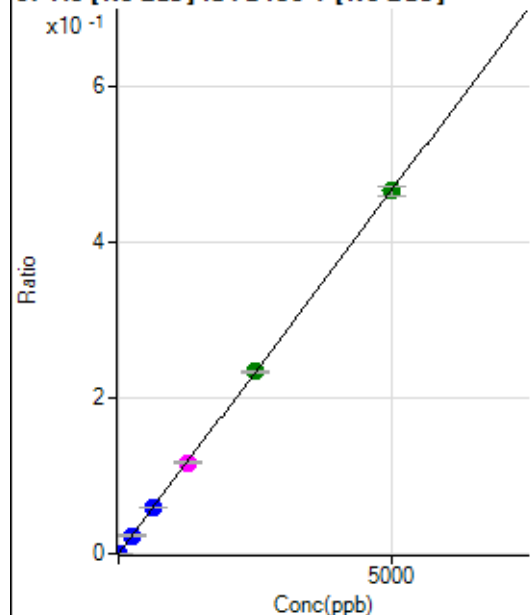
$$DL = 0.04635$$

$$BEC = 0.04337$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	16.66	0.0000	P	91.9
2	☐	5.000	4.666	5034.37	0.0004	P	4.2
3	☐	250.000	248.834	275101.22	0.0232	P	4.1
4	☐	625.000	640.571	690326.74	0.0596	P	1.0
5	☐	1250.000	1247.977	1349830.51	0.1162	M	2.4
6	☐	2500.000	2506.424	2777210.28	0.2333	A	1.6
7	☐	5000.000	4995.406	5523337.41	0.4650	A	2.6
8	☐			2658.66	0.0002	P	18.1

$$y = 9.3077\text{E-}005 * x + 1.5048\text{E-}006$$

$$R = 1.0000$$

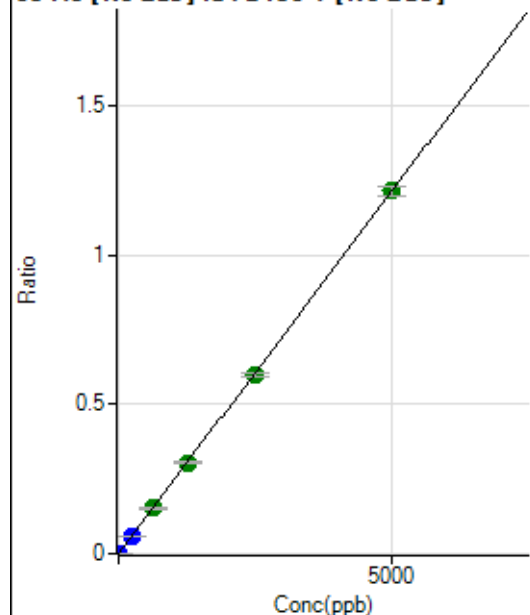
$$DL = 0.04459$$

$$BEC = 0.01617$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	30.56	0.0000	P	45.4
2	☐	5.000	4.668	13117.60	0.0011	P	3.7
3	☐	250.000	243.261	701179.44	0.0590	P	3.7
4	☐	625.000	632.396	1776090.75	0.1535	A	3.1
5	☐	1250.000	1256.868	3544635.93	0.3050	A	1.2
6	☐	2500.000	2476.174	7152797.04	0.6009	A	2.1
7	☐	5000.000	5009.609	14440912.82	1.2156	A	2.5
8	☐			6482.26	0.0006	P	11.9

$$y = 2.4266\text{E-}004 * x + 2.6983\text{E-}006$$

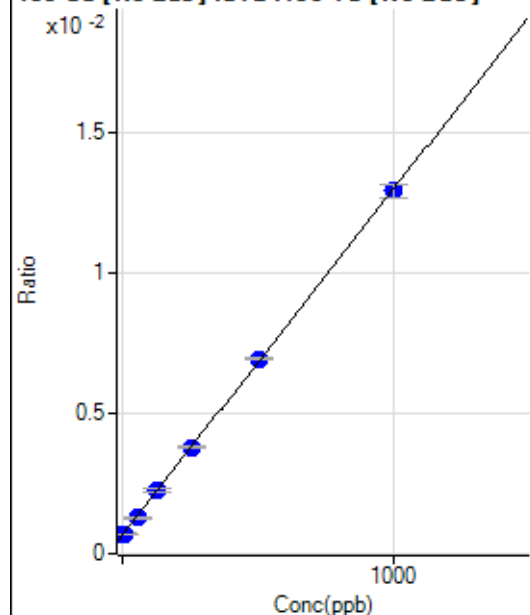
$$R = 1.0000$$

$$DL = 0.01514$$

$$BEC = 0.01112$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	4253.56	0.0007	P	5.4
2	☐	1.000	-2.321	4092.40	0.0007	P	6.9
3	☐	50.000	46.596	7971.97	0.0013	P	2.5
4	☐	125.000	126.697	13715.50	0.0023	P	4.1
5	☐	250.000	250.493	23309.03	0.0038	P	2.2
6	☐	500.000	507.485	43892.85	0.0069	P	1.3
7	☐	1000.000	996.096	83362.98	0.0129	P	3.4
8	☐			3800.64	0.0006	P	6.8

$$y = 1.2289\text{E-}005 * x + 7.0659\text{E-}004$$

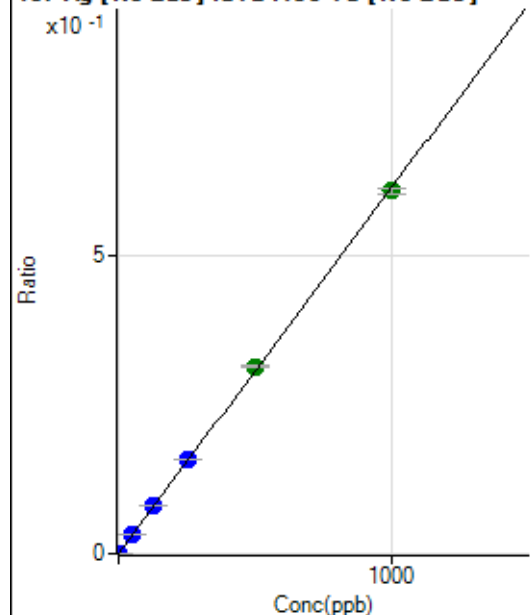
$$R = 0.9999$$

$$DL = 9.392$$

$$BEC = 57.5$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	63.89	0.0000	P	28.7
2	☐	1.000	0.860	3233.80	0.0005	P	16.6
3	☐	50.000	51.365	195816.13	0.0314	P	3.2
4	☐	125.000	132.010	489642.75	0.0808	P	1.1
5	☐	250.000	256.602	967186.99	0.1571	P	0.6
6	☐	500.000	511.471	1979062.89	0.3130	A	1.6
7	☐	1000.000	991.670	3908315.97	0.6069	A	1.6
8	☐			1502.90	0.0002	P	3.7

$$y = 6.1204\text{E-}004 * x + 1.0511\text{E-}005$$

$$R = 0.9999$$

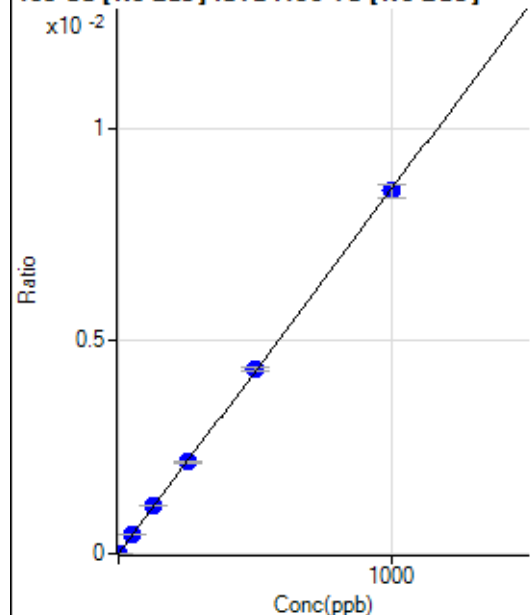
$$DL = 0.01476$$

$$BEC = 0.01717$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	18.06	0.0000	P	32.6
2	☐	1.000	1.586	100.00	0.0000	P	3.2
3	☐	50.000	51.525	2768.37	0.0004	P	5.6
4	☐	125.000	131.428	6846.23	0.0011	P	2.1
5	☐	250.000	251.584	13305.20	0.0022	P	2.4
6	☐	500.000	507.243	27512.31	0.0044	P	1.9
7	☐	1000.000	995.102	54953.50	0.0085	P	3.9
8	☐			45.83	0.0000	P	22.7

$$y = 8.5740\text{E-}006 * x + 2.9800\text{E-}006$$

$$R = 0.9999$$

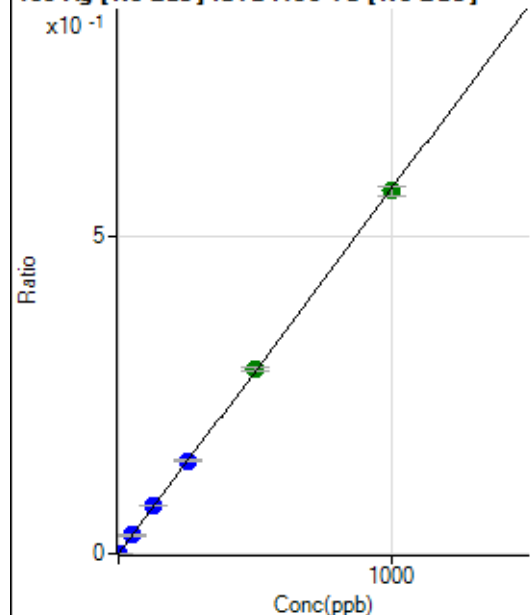
$$DL = 0.3402$$

$$BEC = 0.3476$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	25.00	0.0000	P	30.3
2	☐	1.000	0.876	3055.97	0.0005	P	20.1
3	☐	50.000	50.622	181195.52	0.0291	P	3.3
4	☐	125.000	132.863	462700.59	0.0764	P	1.3
5	☐	250.000	254.447	900800.55	0.1462	P	1.9
6	☐	500.000	506.714	1841010.85	0.2912	A	1.8
7	☐	1000.000	994.518	3680463.23	0.5716	A	2.4
8	☐			1294.54	0.0002	P	8.0

$$y = 5.7475\text{E-}004 * x + 4.1213\text{E-}006$$

$$R = 0.9999$$

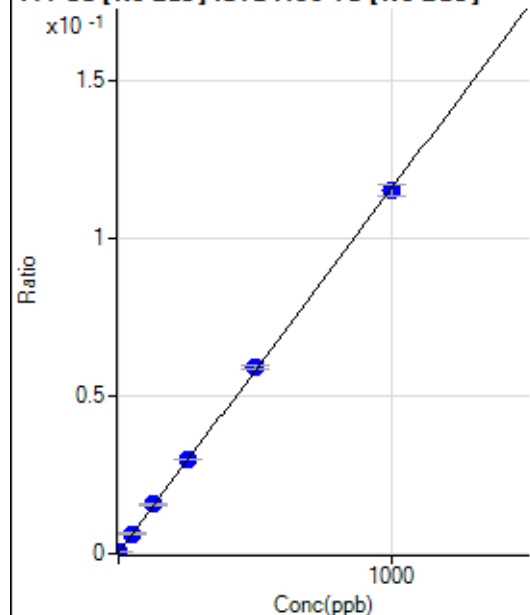
$$DL = 0.00652$$

$$BEC = 0.007171$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	2978.74	0.0005	P	5.5
2	☐	1.000	0.995	3679.45	0.0006	P	5.0
3	☐	50.000	50.868	39655.03	0.0064	P	3.5
4	☐	125.000	130.918	94596.24	0.0156	P	1.1
5	☐	250.000	254.784	184223.73	0.0299	P	0.6
6	☐	500.000	510.012	375411.05	0.0594	P	1.8
7	☐	1000.000	993.015	741484.62	0.1152	P	3.1
8	☐			2936.71	0.0005	P	5.6

$$y = 1.1547\text{E-}004 * x + 4.9482\text{E-}004$$

$$R = 0.9999$$

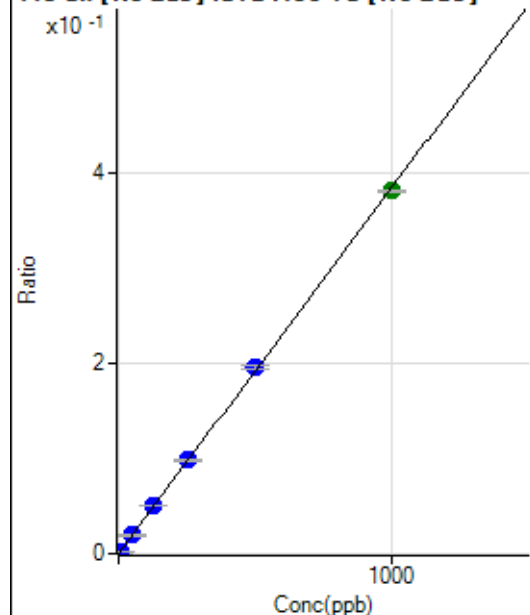
$$DL = 0.7047$$

$$BEC = 4.285$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	283.35	0.0000	P	22.2
2	☐	5.000	4.781	11382.79	0.0019	P	2.1
3	☐	50.000	50.244	120749.70	0.0194	P	3.6
4	☐	125.000	130.604	305009.37	0.0503	P	0.9
5	☐	250.000	255.091	605139.12	0.0983	P	0.9
6	☐	500.000	511.536	1245357.13	0.1970	P	2.2
7	☐	1000.000	992.248	2460532.04	0.3821	A	0.8
8	☐			1375.11	0.0002	P	5.7

$$y = 3.8503\text{E-}004 * x + 4.6842\text{E-}005$$

$$R = 0.9999$$

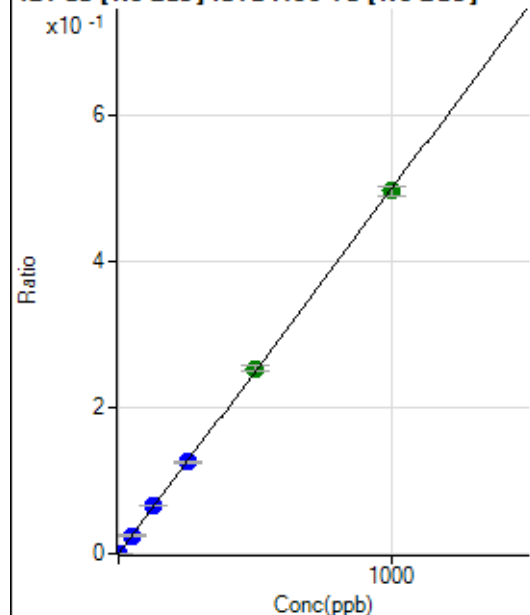
$$DL = 0.08086$$

$$BEC = 0.1217$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	36.11	0.0000	P	62.9
2	☐	2.000	1.926	5843.08	0.0010	P	5.3
3	☐	50.000	49.849	155282.24	0.0249	P	3.1
4	☐	125.000	130.659	395988.34	0.0654	P	1.3
5	☐	250.000	251.454	774440.20	0.1258	P	1.6
6	☐	500.000	508.069	1606220.89	0.2541	A	3.2
7	☐	1000.000	994.902	3203751.42	0.4976	A	2.4
8	☐			2300.26	0.0004	P	3.9

$$y = 5.0011\text{E-}004 * x + 6.1242\text{E-}006$$

$$R = 0.9999$$

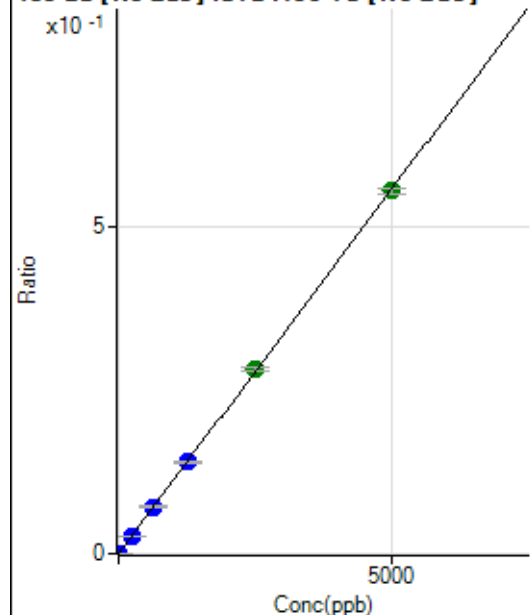
$$DL = 0.02311$$

$$BEC = 0.01225$$

Weight: <None>

Min Conc: 0

135 Ba [No Gas] ISTD :159 Tb [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	5.55	0.0000	P	86.6
2	☐	10.000	9.710	6546.23	0.0011	P	3.0
3	☐	250.000	246.760	171723.06	0.0276	P	1.3
4	☐	625.000	645.151	436778.65	0.0721	P	1.1
5	☐	1250.000	1258.266	865718.60	0.1406	P	0.8
6	☐	2500.000	2531.244	1787814.34	0.2828	A	2.5
7	☐	5000.000	4979.955	3582712.58	0.5564	A	1.7
8	☐			1261.21	0.0002	P	9.3

$$y = 1.1173\text{E-}004 * x + 8.9638\text{E-}007$$

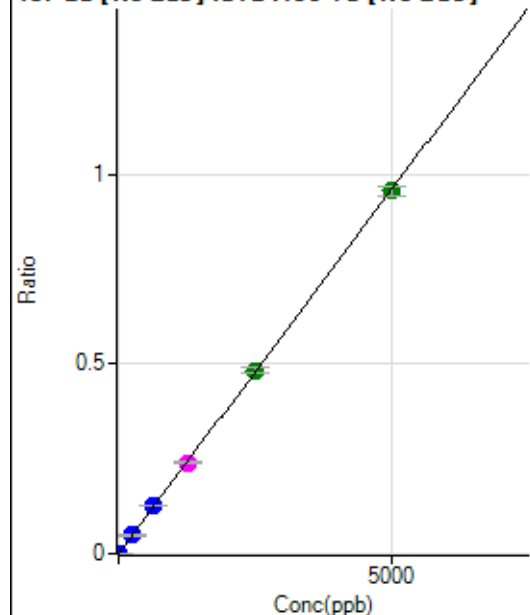
$$R = 1.0000$$

$$DL = 0.02085$$

$$BEC = 0.008023$$

Weight: <None>

Min Conc: 0

137 Ba [No Gas] ISTD : 159 Tb [No Gas]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	5.56	0.0000	P	173.2
2	☐	10.000	10.447	12086.33	0.0020	P	5.5
3	☐	250.000	252.786	301979.67	0.0485	P	3.6
4	☐	625.000	654.671	761087.25	0.1256	P	0.8
5	☐	1250.000	1254.472	1482092.98	0.2407	M	0.6
6	☐	2500.000	2520.630	3057017.99	0.4836	A	3.3
7	☐	5000.000	4984.718	6158172.14	0.9564	A	2.9
8	☐			2405.86	0.0004	P	11.4

$$y = 1.9186E-004 * x + 8.8914E-007$$

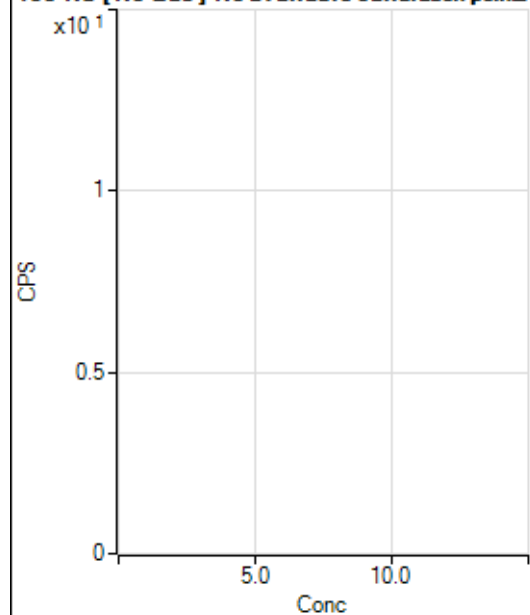
$$R = 1.0000$$

$$DL = 0.02408$$

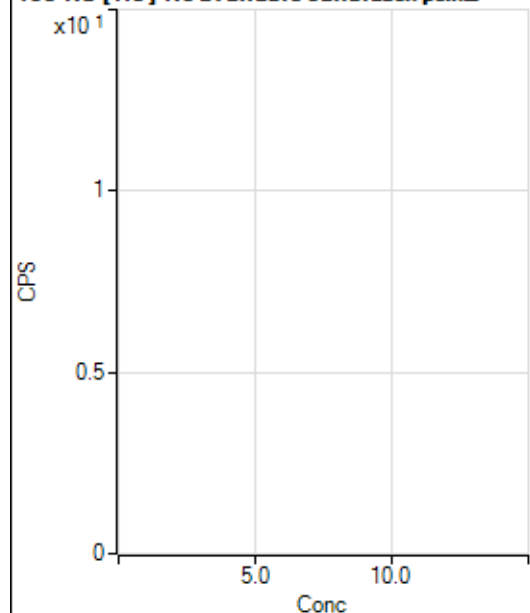
$$BEC = 0.004634$$

Weight: <None>

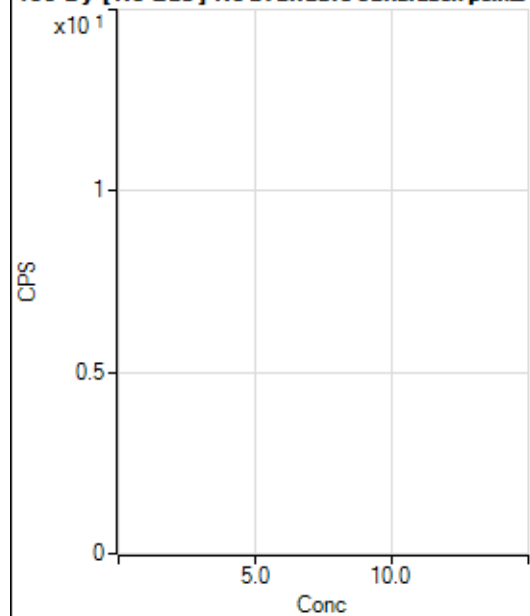
Min Conc: 0

150 Nd [No Gas] No available calibration points

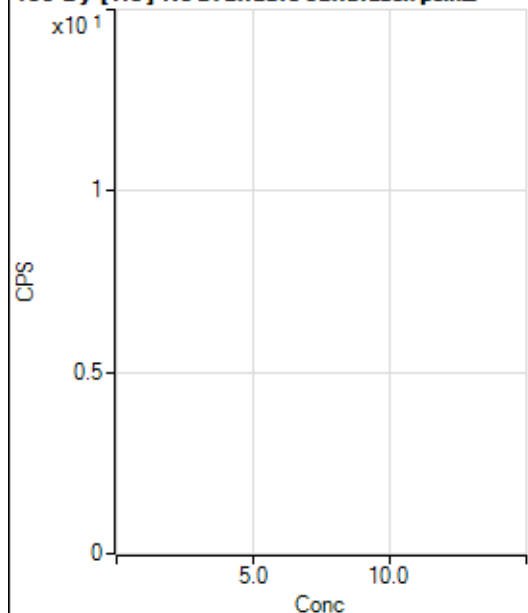
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			11.11		P	69.3
2	☐			11.11		P	34.6
3	☐			20.00		P	120.2
4	☐			22.22		P	45.8
5	☐			55.56		P	48.5
6	☐			104.45		P	47.9
7	☐			244.45		P	18.2
8	☐			20.00		P	66.7

150 Nd [He] No available calibration points

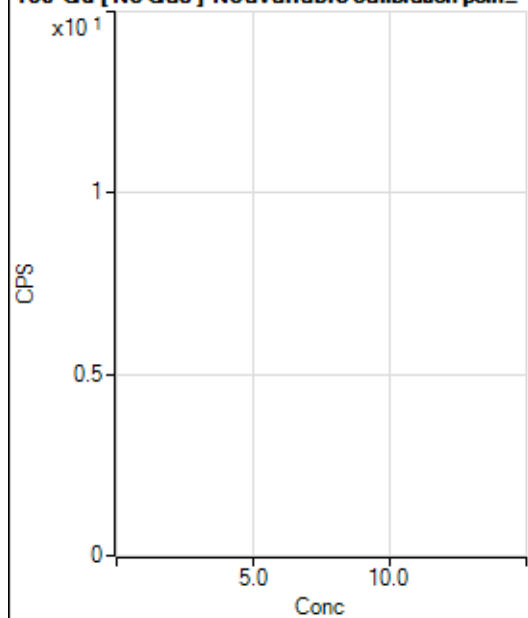
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			0.00		P	
2	☐			3.33		P	173.2
3	☐			2.22		P	173.2
4	☐			3.33		P	100.1
5	☐			6.67		P	50.0
6	☐			18.89		P	27.0
7	☐			21.11		P	32.9
8	☐			12.22		P	41.7

156 Dy [No Gas] No available calibration points

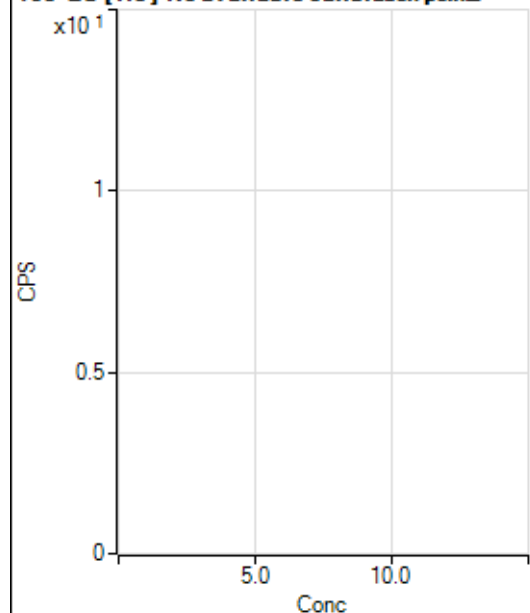
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			11.11		P	43.3
2	☐			8.33		P	100.0
3	☐			22.22		P	94.4
4	☐			47.22		P	40.8
5	☐			66.67		P	0.0
6	☐			97.23		P	9.9
7	☐			219.45		P	12.2
8	☐			769.49		P	5.5

156 Dy [He] No available calibration points

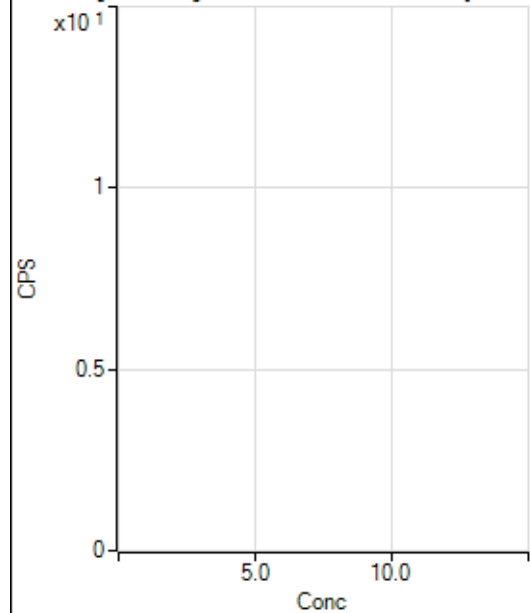
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			5.56		P	91.6
2	☐			1.11		P	173.2
3	☐			4.44		P	114.6
4	☐			16.67		P	121.7
5	☐			20.00		P	16.7
6	☐			43.33		P	23.1
7	☐			84.44		P	25.7
8	☐			410.01		P	3.5

160 Gd [No Gas] Noavailable calibration poin_

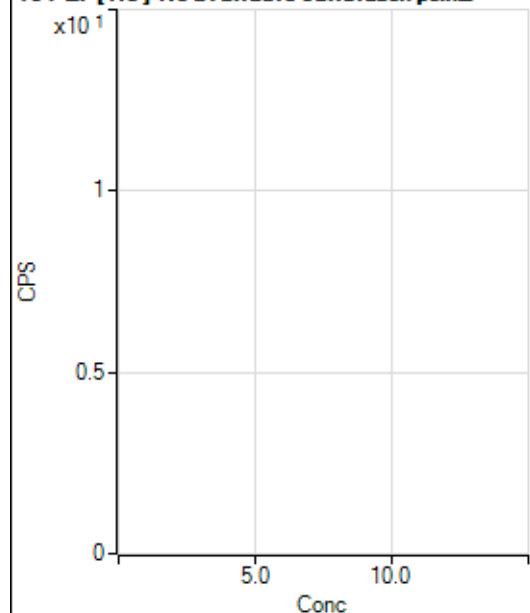
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			113.89		P	53.9
2	☐			113.89		P	15.2
3	☐			155.56		P	22.3
4	☐			102.78		P	12.4
5	☐			150.01		P	16.7
6	☐			161.12		P	31.2
7	☐			266.68		P	19.0
8	☐			947.29		P	7.1

160 Gd [He] No available calibration points

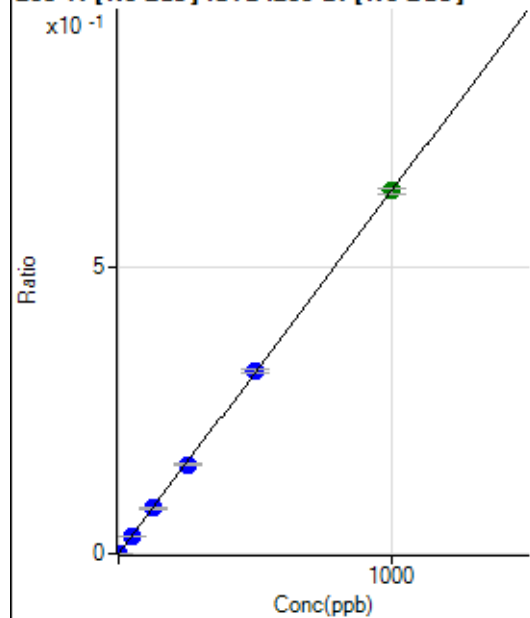
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			30.00		P	50.9
2	☐			28.89		P	24.0
3	☐			31.11		P	6.2
4	☐			40.00		P	25.0
5	☐			41.11		P	40.0
6	☐			82.22		P	16.4
7	☐			101.12		P	13.3
8	☐			523.35		P	6.9

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			22.22		P	57.3
2	☐			44.44		P	21.7
3	☐			22.22		P	43.3
4	☐			38.89		P	53.9
5	☐			27.78		P	17.3
6	☐			50.00		P	44.1
7	☐			80.56		P	31.6
8	☐			141.67		P	25.6

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			13.33		P	25.0
2	☐			13.33		P	25.0
3	☐			8.89		P	21.6
4	☐			21.11		P	9.1
5	☐			15.56		P	12.4
6	☐			24.45		P	55.1
7	☐			27.78		P	30.2
8	☐			54.44		P	17.7

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	91.67	0.0000	P	21.1
2	☐	1.000	0.932	1925.20	0.0006	P	5.9
3	☐	50.000	48.061	97079.48	0.0305	P	1.5
4	☐	125.000	124.626	243213.87	0.0790	P	2.0
5	☐	250.000	246.351	485419.11	0.1562	P	2.2
6	☐	500.000	501.387	1016968.53	0.3179	P	2.2
7	☐	1000.000	1000.362	2059606.54	0.6342	A	1.4
8	☐			697.26	0.0002	P	11.6

$$y = 6.3389E-004 * x + 3.0313E-005$$

$$R = 1.0000$$

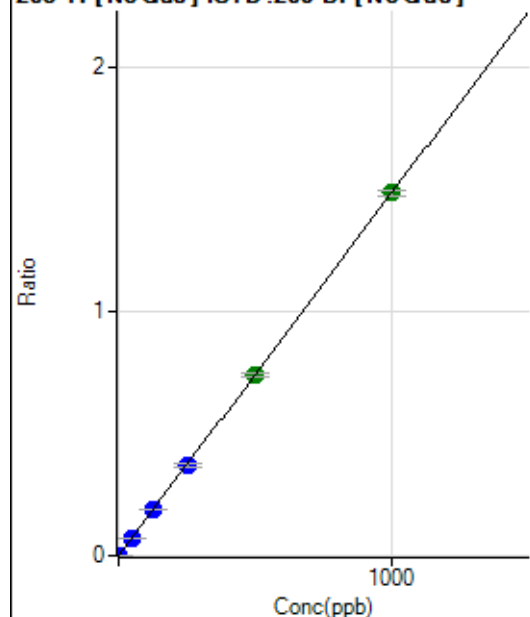
$$DL = 0.03024$$

$$BEC = 0.04782$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	294.46	0.0001	P	5.1
2	☐	1.000	0.883	4367.53	0.0014	P	7.3
3	☐	50.000	48.326	228922.35	0.0719	P	1.3
4	☐	125.000	126.344	578112.92	0.1878	P	2.0
5	☐	250.000	248.814	1149479.14	0.3698	P	2.7
6	☐	500.000	499.316	2374272.12	0.7421	A	2.2
7	☐	1000.000	1000.554	4830105.23	1.4870	A	1.5
8	☐			1689.05	0.0006	P	13.9

$$y = 0.0015 * x + 9.7785E-005$$

$$R = 1.0000$$

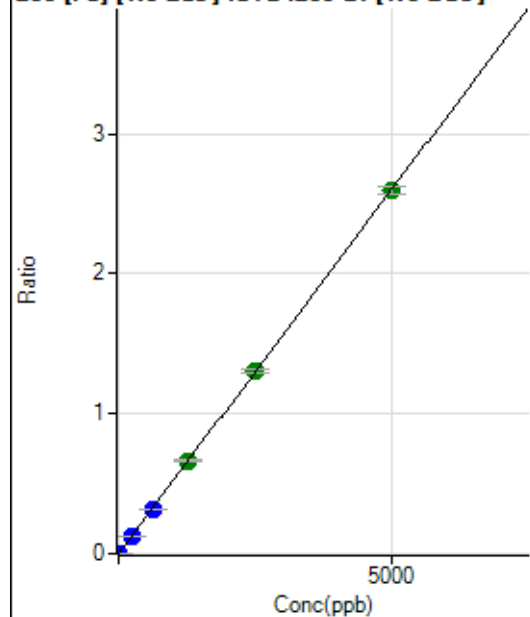
$$DL = 0.01007$$

$$BEC = 0.0658$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	261.12	0.0001	P	18.0
2	☐	1.000	0.954	1807.57	0.0006	P	4.2
3	☐	250.000	237.165	392830.80	0.1234	P	2.2
4	☐	625.000	615.321	985080.14	0.3201	P	1.5
5	☐	1250.000	1279.314	2067833.16	0.6653	A	2.3
6	☐	2500.000	2518.055	4189586.84	1.3095	A	2.3
7	☐	5000.000	4985.496	8421718.59	2.5926	A	2.0
8	☐			16484.80	0.0054	P	2.3

$$y = 5.2000E-004 * x + 8.7153E-005$$

$$R = 1.0000$$

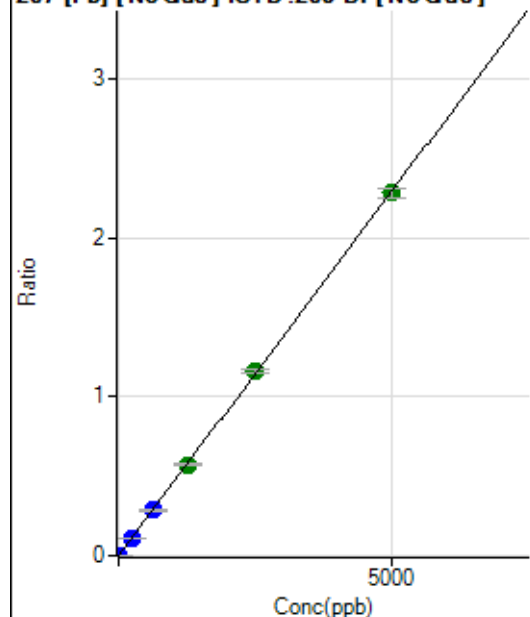
$$DL = 0.09039$$

$$BEC = 0.1676$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	211.11	0.0001	P	21.7
2	☐	1.000	0.857	1433.44	0.0005	P	3.9
3	☐	250.000	239.501	349065.41	0.1097	P	2.7
4	☐	625.000	624.742	880032.53	0.2860	P	2.3
5	☐	1250.000	1251.188	1779829.08	0.5726	A	2.7
6	☐	2500.000	2534.244	3710484.43	1.1598	A	2.9
7	☐	5000.000	4983.138	7407883.33	2.2804	A	2.5
8	☐			14793.82	0.0049	P	1.7

$$y = 4.5761\text{E-}004 * x + 7.0408\text{E-}005$$

$$R = 1.0000$$

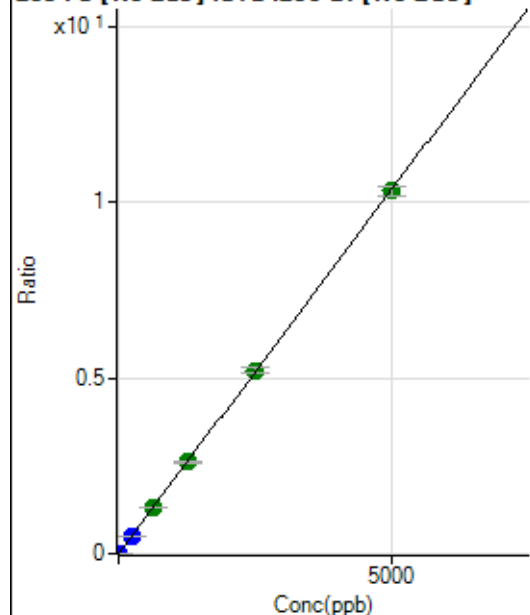
$$DL = 0.09996$$

$$BEC = 0.1539$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	955.58	0.0003	P	10.7
2	☐	1.000	0.933	6967.53	0.0022	P	4.4
3	☐	250.000	239.129	1576256.05	0.4952	P	2.5
4	☐	625.000	635.263	4047030.15	1.3150	A	1.9
5	☐	1250.000	1264.371	8133309.82	2.6170	A	2.0
6	☐	2500.000	2521.022	16693947.92	5.2178	A	3.0
7	☐	5000.000	4985.157	33516791.20	10.3175	A	2.7
8	☐			66562.14	0.0220	P	0.5

$$y = 0.0021 * x + 3.1805\text{E-}004$$

$$R = 1.0000$$

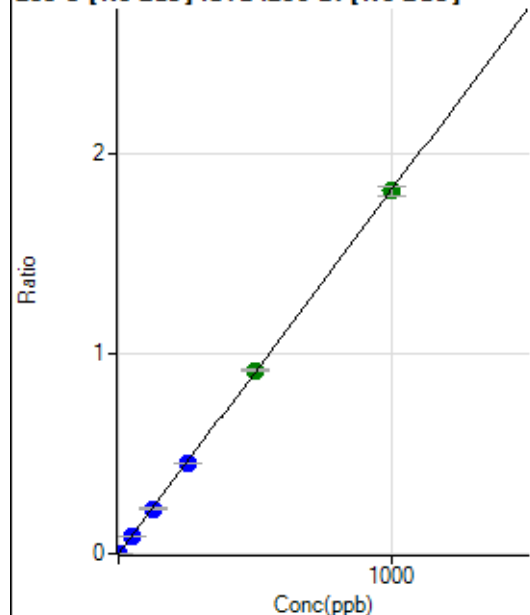
$$DL = 0.04954$$

$$BEC = 0.1537$$

Weight: <None>

Min Conc: 0

238 U [No Gas] ISTD :209 Bi [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	8.33	0.0000	P	103.1
2	☐	1.000	0.942	5309.62	0.0017	P	5.0
3	☐	50.000	47.552	274987.45	0.0864	P	2.6
4	☐	125.000	123.750	692055.73	0.2248	P	1.7
5	☐	250.000	249.575	1408854.56	0.4534	P	0.7
6	☐	500.000	504.903	2934723.48	0.9173	A	1.6
7	☐	1000.000	997.933	5888646.70	1.8131	A	2.6
8	☐			786.16	0.0003	P	6.3

$$y = 0.0018 * x + 2.8727E-006$$

$$R = 1.0000$$

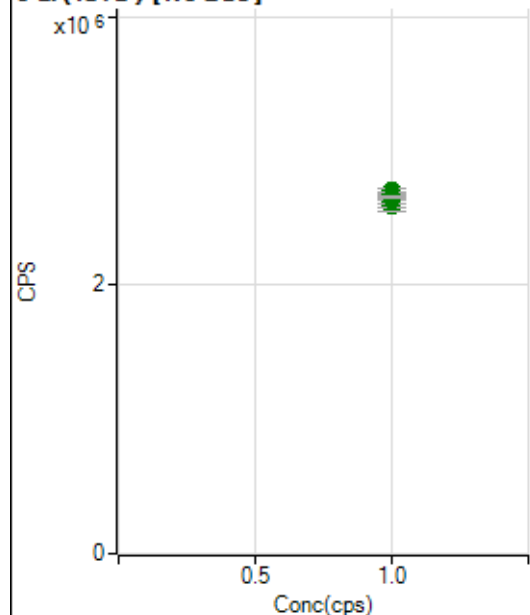
$$DL = 0.004892$$

$$BEC = 0.001581$$

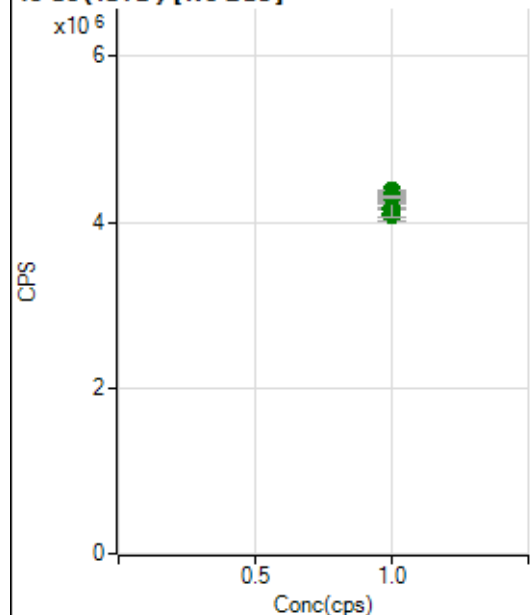
Weight: <None>

Min Conc: 0

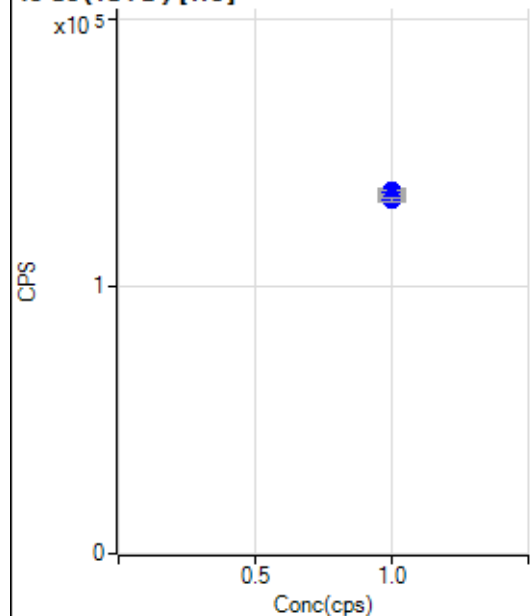
6 Li (ISTD) [No Gas]



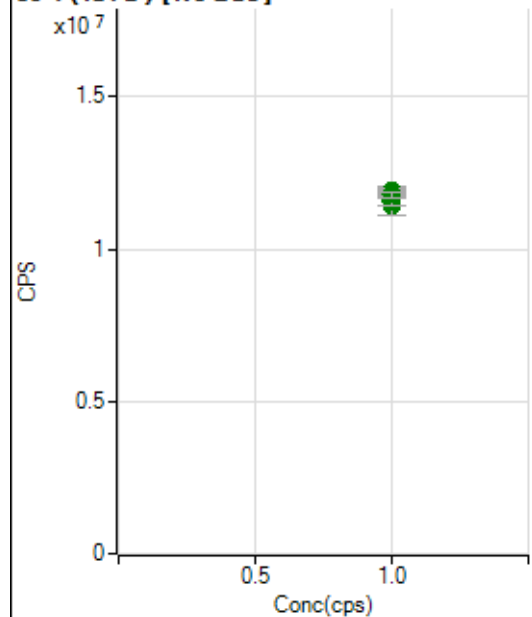
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2589834.34		A	3.4
2	☐	1.000		2621417.48		A	2.7
3	☐	1.000		2670812.72		A	1.5
4	☐	1.000		2636638.77		A	1.8
5	☐	1.000		2658745.58		A	2.0
6	☐	1.000		2703971.24		A	1.7
7	☐	1.000		2674196.38		A	1.8
8	☐	1.000		2656499.11		A	0.3

45 Sc (ISTD) [No Gas]

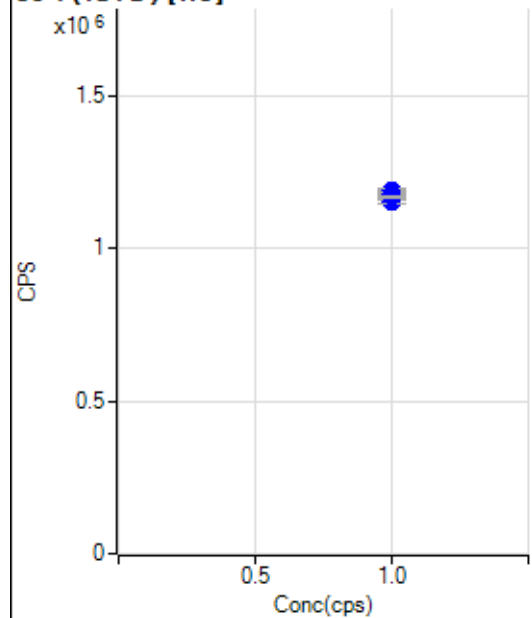
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		4096292.37		A	4.3
2	☐	1.000		4111365.60		A	2.2
3	☐	1.000		4269541.46		A	0.5
4	☐	1.000		4180196.50		A	1.6
5	☐	1.000		4156786.61		A	4.1
6	☐	1.000		4320197.43		A	1.3
7	☐	1.000		4378970.11		A	0.8
8	☐	1.000		4309881.91		A	0.5

45 Sc (ISTD) [He]

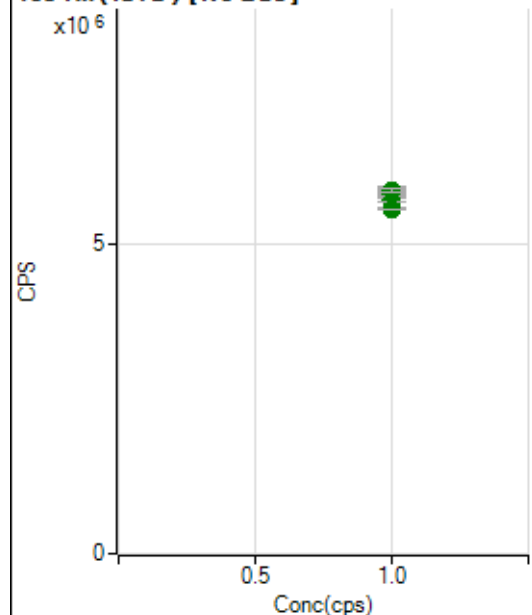
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		135807.00		P	0.9
2	☐	1.000		134984.81		P	0.5
3	☐	1.000		134057.58		P	0.6
4	☐	1.000		135686.03		P	0.2
5	☐	1.000		135273.91		P	0.7
6	☐	1.000		133460.78		P	1.6
7	☐	1.000		132889.16		P	2.1
8	☐	1.000		132145.30		P	1.0

89 Y (ISTD) [No Gas]

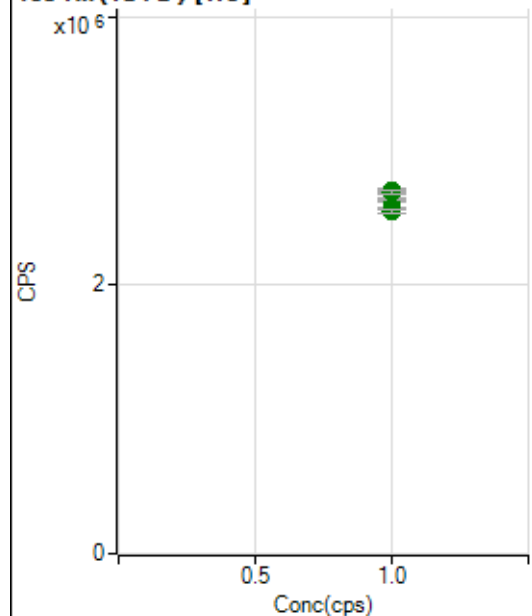
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		11449096.91		A	5.6
2	☐	1.000		11560591.22		A	2.9
3	☐	1.000		11884558.99		A	2.3
4	☐	1.000		11579499.83		A	2.7
5	☐	1.000		11623210.38		A	3.5
6	☐	1.000		11904223.99		A	0.7
7	☐	1.000		11882031.63		A	1.8
8	☐	1.000		11780816.49		A	1.4

89 Y (ISTD) [He]

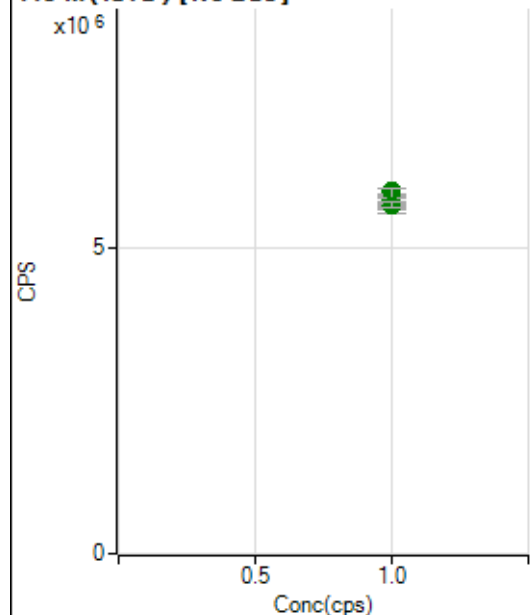
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1183796.45		P	1.0
2	☐	1.000		1177323.99		P	0.4
3	☐	1.000		1166359.20		P	0.7
4	☐	1.000		1177647.59		P	0.4
5	☐	1.000		1188018.03		P	1.1
6	☐	1.000		1177795.05		P	1.0
7	☐	1.000		1152585.44		P	1.3
8	☐	1.000		1168677.93		P	0.9

103 Rh (ISTD) [No Gas]

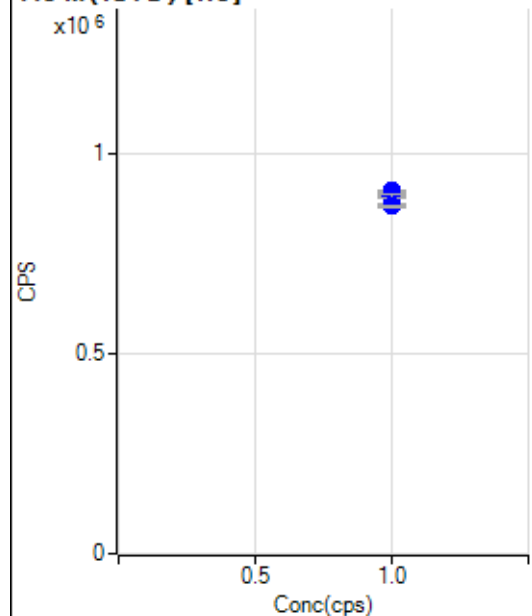
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		5705428.99		A	5.0
2	☐	1.000		5728101.65		A	2.7
3	☐	1.000		5841230.95		A	2.5
4	☐	1.000		5736168.88		A	2.7
5	☐	1.000		5795006.99		A	2.5
6	☐	1.000		5796547.39		A	1.3
7	☐	1.000		5838446.79		A	1.0
8	☐	1.000		5541323.26		A	0.5

103 Rh (ISTD) [He]

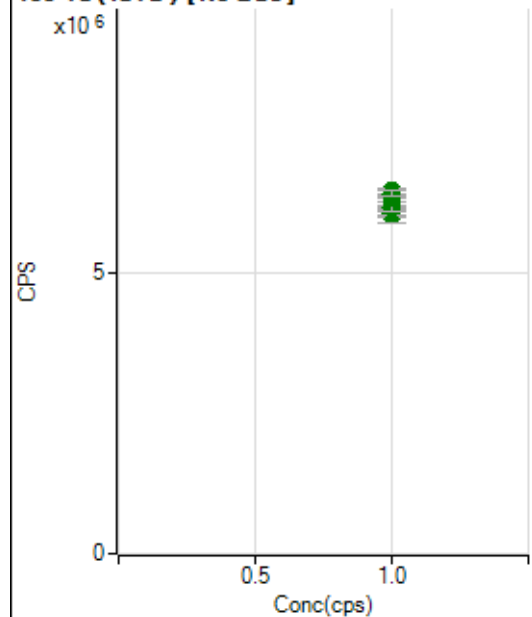
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2704545.10		A	1.2
2	☐	1.000		2689871.90		A	1.0
3	☐	1.000		2631511.73		A	0.4
4	☐	1.000		2647958.50		A	0.8
5	☐	1.000		2702619.79		A	1.5
6	☐	1.000		2695641.99		A	1.1
7	☐	1.000		2571891.33		A	0.9
8	☐	1.000		2554108.47		A	1.0

115 In (ISTD) [No Gas]

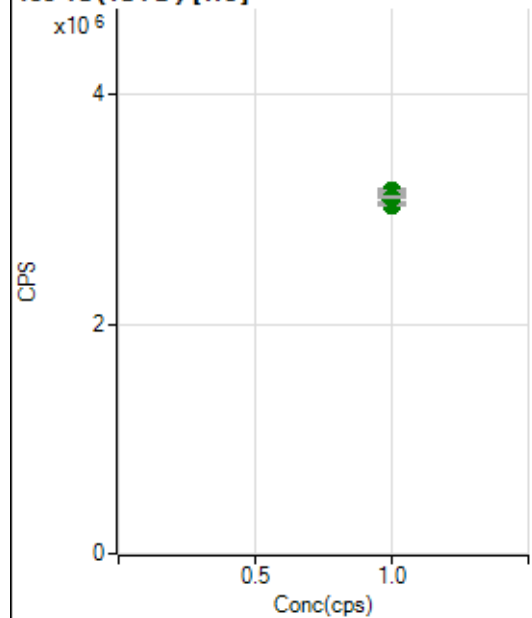
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		5720130.31		A	5.8
2	☐	1.000		5683890.95		A	0.9
3	☐	1.000		5936065.96		A	1.3
4	☐	1.000		5750791.00		A	4.6
5	☐	1.000		5787031.31		A	2.9
6	☐	1.000		5869528.89		A	0.6
7	☐	1.000		5901739.06		A	2.2
8	☐	1.000		5706573.68		A	1.3

115 In (ISTD) [He]

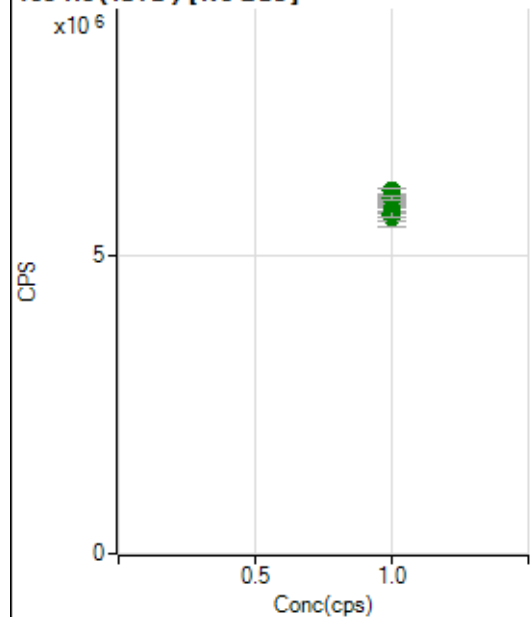
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		905373.25		P	0.5
2	☐	1.000		901654.91		P	0.6
3	☐	1.000		893133.40		P	0.6
4	☐	1.000		900080.67		P	0.7
5	☐	1.000		901353.24		P	0.7
6	☐	1.000		892267.36		P	0.9
7	☐	1.000		869593.26		P	1.4
8	☐	1.000		867251.84		P	0.3

159 Tb (ISTD) [No Gas]

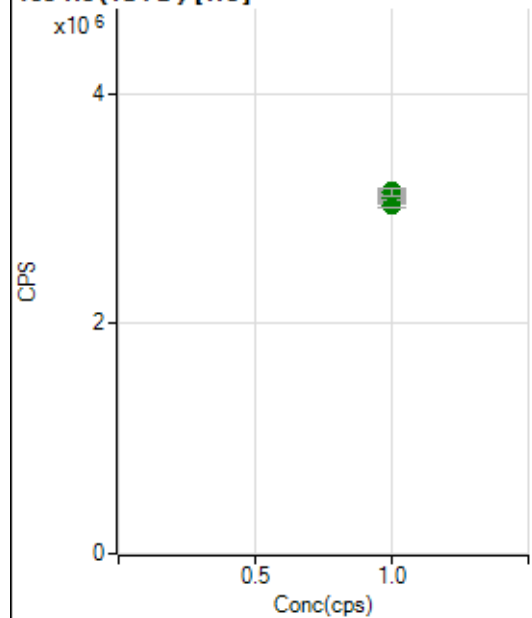
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		6022432.90		A	5.1
2	☐	1.000		6031287.55		A	1.9
3	☐	1.000		6229783.66		A	2.4
4	☐	1.000		6059664.98		A	1.5
5	☐	1.000		6157525.74		A	2.4
6	☐	1.000		6321419.14		A	0.7
7	☐	1.000		6440065.88		A	1.3
8	☐	1.000		6397394.14		A	1.5

159 Tb (ISTD) [He]

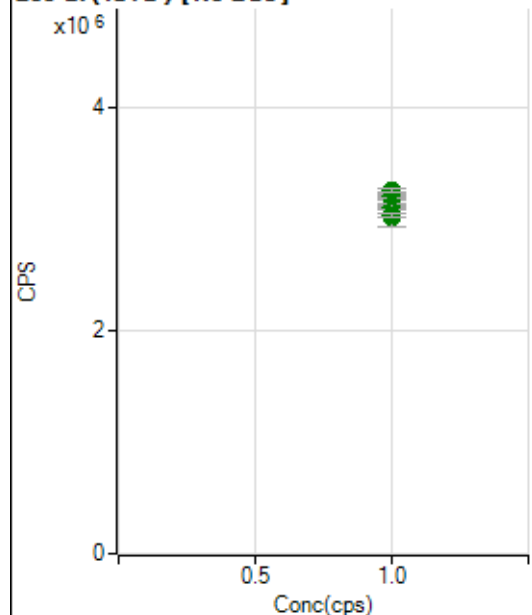
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3080247.94		A	1.2
2	☐	1.000		3089822.31		A	1.7
3	☐	1.000		3042394.26		A	0.9
4	☐	1.000		3105668.15		A	0.7
5	☐	1.000		3144835.65		A	2.6
6	☐	1.000		3162628.01		A	0.5
7	☐	1.000		3098180.16		A	2.0
8	☐	1.000		3105224.16		A	0.4

165 Ho (ISTD) [No Gas]

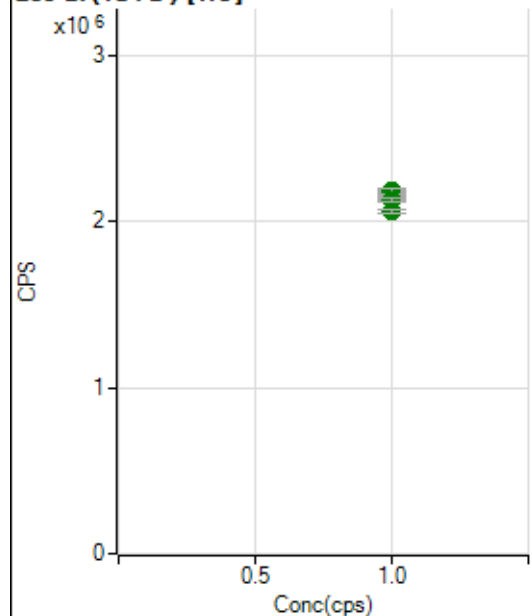
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		5660538.49		A	6.3
2	☐	1.000		5634992.57		A	2.1
3	☐	1.000		5889741.19		A	2.6
4	☐	1.000		5651566.92		A	3.0
5	☐	1.000		5707820.05		A	3.1
6	☐	1.000		5875325.26		A	0.9
7	☐	1.000		6075527.18		A	1.7
8	☐	1.000		5960922.83		A	0.9

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3079414.19		A	0.5
2	☐	1.000		3049724.16		A	0.6
3	☐	1.000		3032311.59		A	1.3
4	☐	1.000		3118740.20		A	1.2
5	☐	1.000		3135635.58		A	0.3
6	☐	1.000		3153479.19		A	0.8
7	☐	1.000		3091913.32		A	0.9
8	☐	1.000		3141712.73		A	1.9

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3017075.48		A	5.8
2	☐	1.000		3098354.99		A	0.1
3	☐	1.000		3183771.45		A	1.5
4	☐	1.000		3078419.47		A	2.5
5	☐	1.000		3107032.80		A	2.0
6	☐	1.000		3199485.30		A	0.9
7	☐	1.000		3247975.47		A	1.1
8	☐	1.000		3025727.21		A	1.0

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2158337.80		A	1.2
2	☐	1.000		2139050.91		A	0.4
3	☐	1.000		2135015.21		A	0.4
4	☐	1.000		2164123.60		A	1.0
5	☐	1.000		2174066.67		A	0.9
6	☐	1.000		2183822.43		A	1.4
7	☐	1.000		2126133.37		A	1.0
8	☐	1.000		2063295.09		A	1.0

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8041421MS .bst.b
Acq. Date-Time 2021-04-14 10:39:01
Report Comment ---
Instrument Name G8403A SG19224459

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		10341	103409.78			1.581	5.000
24		134108	1341080.58			0.959	5.000
25		18474	184744.25			2.192	5.000
26		20490	204899.60			2.034	5.000
59		22976	229755.28			2.262	5.000
113		9061	90607.38			1.925	5.000
115		28920	289196.88			2.425	5.000
206		9778	97775.45			3.096	5.000
207		8267	82667.95			2.783	5.000
208		20148	201483.72			3.553	5.000
220		1	9.50			24.965	

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

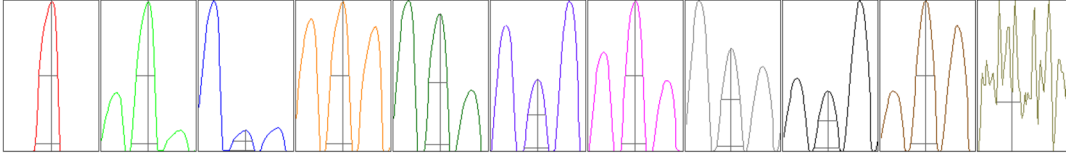
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	10400	10059	10441	10459	10346
24	133870	132178	135593	134008	134892
25	18362	17830	18779	18828	18574
26	20471	19810	20747	20896	20526
59	22942	22116	23249	23479	23092
113	9001	8792	9159	9247	9104
115	28961	27811	29126	29752	28948
206	9596	9361	9903	10141	9887
207	8091	7985	8413	8548	8296
208	19545	19255	20752	20844	20346

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	18726.22	9.05	8.90 - 9.10	
24	241720.40	24.00	23.90 - 24.10	
25	32498.50	25.00	24.90 - 25.10	
26	36987.25	26.00	25.90 - 26.10	
59	41891.34	59.00	58.90 - 59.10	
113	17192.93	113.00	112.90 - 113.10	
115	54195.68	115.00	114.90 - 115.10	
206	17554.95	205.95	205.90 - 206.10	
207	14442.13	206.95	206.90 - 207.10	
208	36221.68	207.95	207.90 - 208.10	
220	0.85	219.60	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.59	0.772	0.900	
24	0.58	0.818	0.900	
25	0.60	0.786	0.900	
26	0.59	0.814	0.900	
59	0.58	0.773	0.900	
113	0.55	0.768	0.900	
115	0.55	0.773	0.900	
206	0.59	0.834	0.900	
207	0.59	0.801	0.900	
208	0.58	0.828	0.900	
220	0.77			

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode HMI Nebulizer Gas 0.52 L/min Dilution Gas 0.47 L/min

US EPA Tune Check Report

RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	8.8 V	Deflect	15.2 V
Extract 2	-210.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-110 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	170 V		

QP Parameters

Mass Gain	121	Axis Gain	0.9991	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	-0.02		

Hardware Settings

Torch

Torch H	1.3 mm	Torch V	-1.0 mm
---------	--------	---------	---------

EM

Discriminator	3.9 mV	Analog HV	2190 V	Pulse HV	1370 V
---------------	--------	-----------	--------	----------	--------

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		4585	45851.10			1.214	
89		24088	240880.04			1.103	
205		9715	97146.96			2.160	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	4635	4643	4558	4581	4509
89	24395	24331	23988	23957	23769
205	9980	9898	9621	9520	9554

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	HMI	Nebulizer Gas	0.52 L/min	Dilution Gas	0.47 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	8.8 V	Deflect	5.6 V
-----------	--------	------------	-------	---------	-------

US EPA Tune Check Report

Extract 2	-210.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-110 V	Cell Exit	-70 V		
Cell Parameters					
Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	4.5 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		
QP Parameters					
Mass Gain	121	Axis Gain	0.9991	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.02		
Hardware Settings					
Torch					
Torch H	1.3 mm	Torch V	-1.0 mm		
EM					
Discriminator	3.9 mV	Analog HV	2190 V	Pulse HV	1370 V