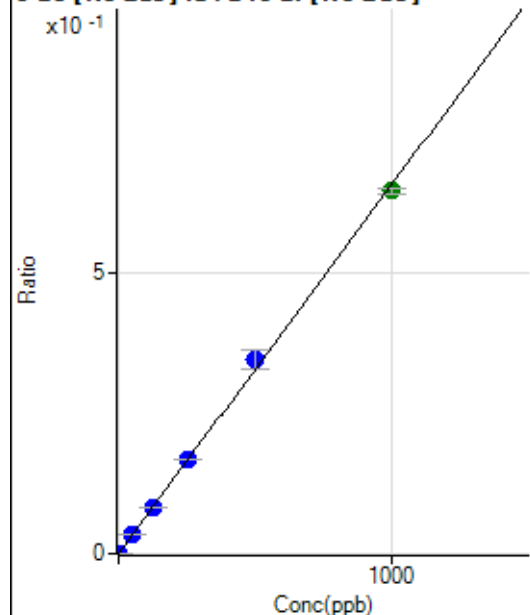


Calibration for 011CALS.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P8031624MS.b\
 Analysis File: P8031624MS.batch.bin
 DA Date-Time: 2024-03-16 22:48:14
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2024-03-16 16:09:18
2	006CALS.d	S02	2024-03-16 16:16:08
3	007CALS.d	S03	2024-03-16 16:19:33
4	008CALS.d	S04	2024-03-16 16:22:51
5	009CALS.d	S05	2024-03-16 16:25:58
6	010CALS.d	S06	2024-03-16 16:29:04
7	011CALS.d	S07	2024-03-16 16:32:06
8	012CALS.d	S08	2024-03-16 16:35:10

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	36.25	0.0000	P	28.0
2	☐	1.000	0.971	1470.73	0.0007	P	3.9
3	☐	50.000	50.930	71874.52	0.0335	P	1.1
4	☐	125.000	126.276	168509.00	0.0829	P	0.3
5	☐	250.000	255.161	316749.71	0.1676	P	1.1
6	☐	500.000	529.064	601349.64	0.3474	P	9.9
7	☐	1000.000	983.972	1161921.98	0.6462	A	1.8
8	☐			244.98	0.0001	P	24.3

$$y = 6.5669\text{E-}004 * x + 1.6531\text{E-}005$$

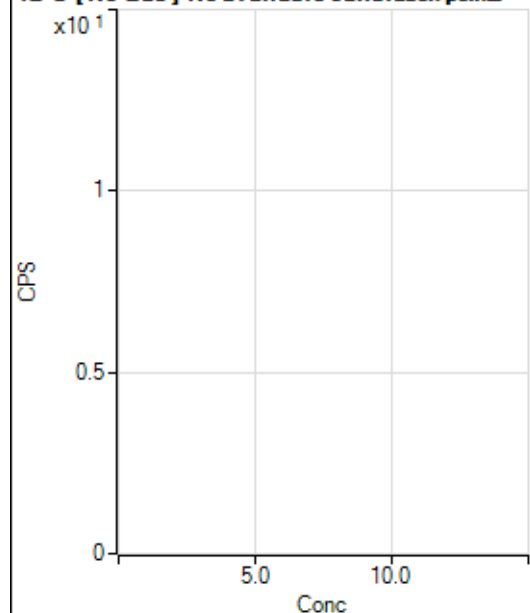
$$R = 0.9993$$

$$DL = 0.02113$$

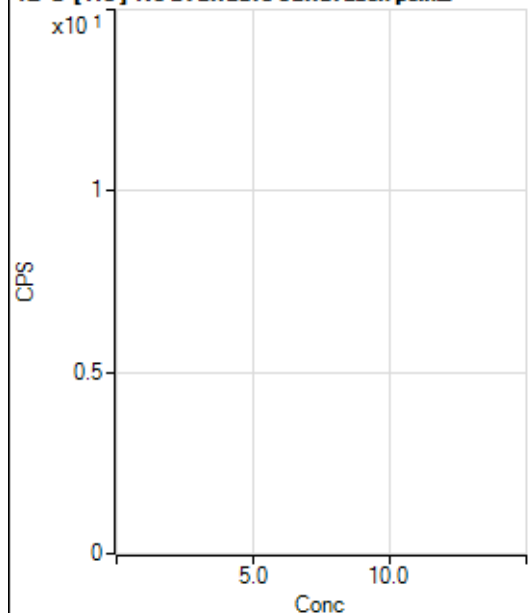
$$BEC = 0.02517$$

Weight: <None>

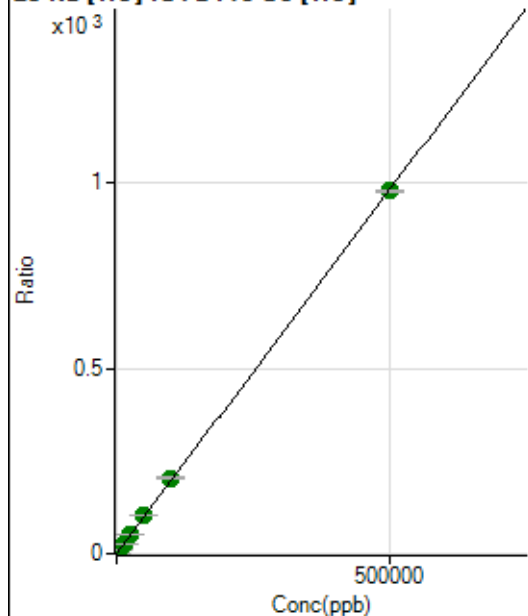
Min Conc: 0

12 C [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			1465416.77		A	0.4
2	☐			1452171.40		A	1.5
3	☐			1511201.49		A	0.8
4	☐			1456152.46		A	1.0
5	☐			1510546.24		A	1.1
6	☐			1605554.35		A	2.0
7	☐			1950646.76		A	3.8
8	☐			1868071.81		A	5.5

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			19144.78		P	0.3
2	☐			18813.21		P	1.4
3	☐			19382.88		P	2.8
4	☐			18719.79		P	2.6
5	☐			20156.10		P	2.7
6	☐			22444.97		P	0.7
7	☐			28110.28		P	0.5
8	☐			30780.04		P	2.8

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	7000.63	0.0615	P	1.5
2	☐	500.000	464.249	112570.37	0.9718	P	0.7
3	☐	5000.000	5167.730	1119216.52	10.1953	A	1.0
4	☐	12500.000	13047.784	2632458.04	25.6481	A	2.6
5	☐	25000.000	26150.030	4923914.79	51.3415	A	1.2
6	☐	50000.000	52060.313	9461154.37	102.1515	A	0.7
7	☐	100000.00	104388.30	18826559.31	204.7664	A	1.6
8	☐	500000.00	498843.47	99811064.07	978.2911	A	0.5

$$y = 0.0020 * x + 0.0615$$

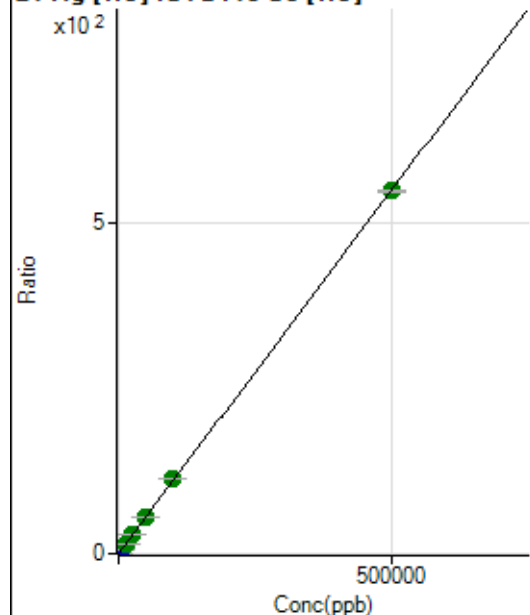
$$R = 1.0000$$

$$DL = 1.394$$

$$BEC = 31.34$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	108.89	0.0010	P	18.9
2	☐	500.000	469.476	60003.94	0.5181	P	2.2
3	☐	5000.000	5064.327	612522.36	5.5794	P	0.4
4	☐	12500.000	12988.660	1468568.02	14.3081	A	1.4
5	☐	25000.000	26049.276	2751674.23	28.6946	A	1.6
6	☐	50000.000	51305.656	5233842.15	56.5148	A	1.0
7	☐	100000.00	102833.76	10414777.90	113.2738	A	1.4
8	☐	500000.00	499237.38	56102872.50	549.9178	A	0.7

$$y = 0.0011 * x + 9.5617E-004$$

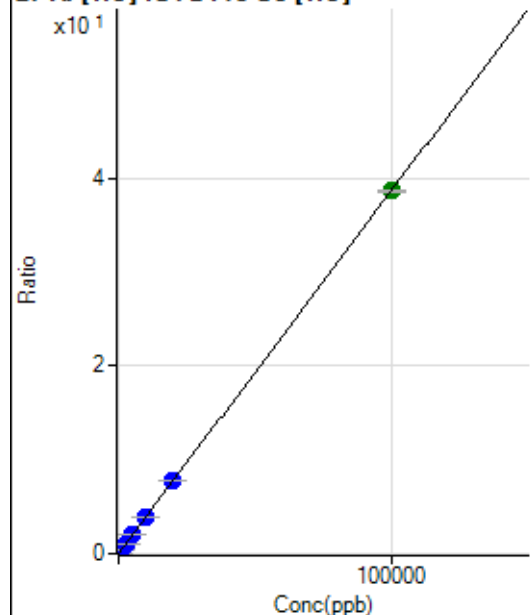
$$R = 1.0000$$

$$DL = 0.4927$$

$$BEC = 0.868$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	67.78	0.0006	P	33.0
2	☐	20.000	18.475	895.59	0.0077	P	9.0
3	☐	1000.000	1014.383	43108.15	0.3927	P	1.6
4	☐	2500.000	2552.699	101343.07	0.9874	P	0.4
5	☐	5000.000	5122.375	189952.66	1.9807	P	0.8
6	☐	10000.000	10202.778	365296.50	3.9446	P	1.1
7	☐	20000.000	20195.800	717868.96	7.8075	P	0.5
8	☐	100000.00	99932.982	3941665.15	38.6306	A	0.9

$$y = 3.8656E-004 * x + 5.9520E-004$$

$$R = 1.0000$$

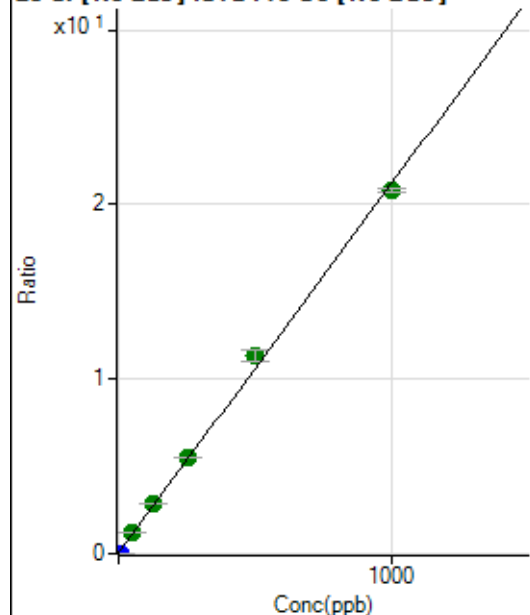
$$DL = 1.522$$

$$BEC = 1.54$$

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	141207.27	0.0449	P	1.5
2	☐	10.000	0.180	158160.49	0.0487	P	1.9
3	☐	50.000	52.879	3655660.36	1.1640	A	1.0
4	☐	125.000	132.103	8339256.82	2.8405	A	0.6
5	☐	250.000	257.912	15433099.49	5.5029	A	0.4
6	☐	500.000	533.856	29443789.28	11.3425	A	6.0
7	☐	1000.000	980.161	55973223.61	20.7874	A	1.0
8	☐			721018.53	0.2742	P	5.9

$$y = 0.0212 * x + 0.0449$$

$$R = 0.9990$$

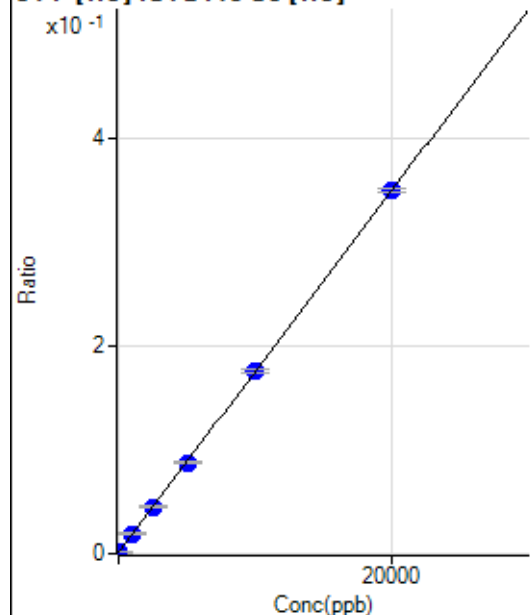
$$DL = 0.09858$$

$$BEC = 2.123$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-17.177	107.78	0.0009	P	39.0
2	☐	0.000	17.177	178.89	0.0015	P	5.7
3	☐	1000.000	1037.329	2121.28	0.0193	P	3.5
4	☐	2500.000	2510.482	4619.67	0.0450	P	2.5
5	☐	5000.000	4972.289	8431.40	0.0879	P	2.4
6	☐	10000.000	10012.175	16277.00	0.1758	P	2.1
7	☐	20000.000	19997.664	32166.77	0.3499	P	1.1
8	☐			111.11	0.0011	P	27.0

$$y = 1.7432E-005 * x + 0.0012$$

$$R = 1.0000$$

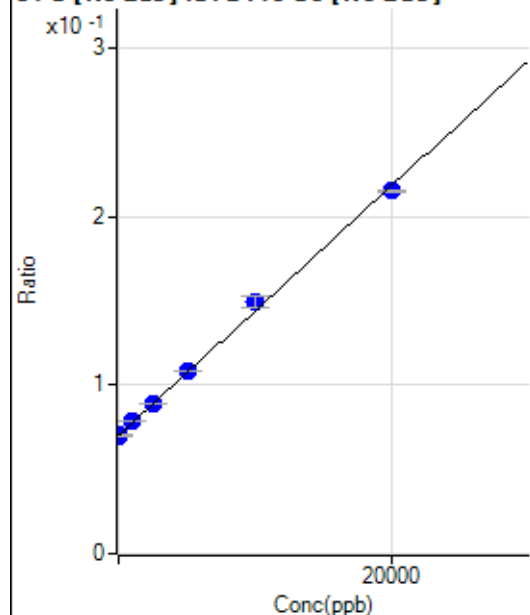
$$DL = 39.29$$

$$BEC = 71.42$$

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	-27.562	220387.08	0.0701	P	1.4
2	☐	0.000	27.562	228819.56	0.0705	P	2.3
3	☐	1000.000	1185.335	248515.89	0.0791	P	0.5
4	☐	2500.000	2522.183	261394.78	0.0890	P	0.5
5	☐	5000.000	5195.801	305340.11	0.1089	P	0.1
6	☐	10000.000	10728.422	389347.44	0.1499	P	4.8
7	☐	20000.000	19574.799	580403.91	0.2155	P	0.3
8	☐			195785.35	0.0745	P	2.6

$$y = 7.4186E-006 * x + 0.0703$$

R = 0.9989

DL = 527.4

BEC = 9480

Weight: <None>

Min Conc: 0

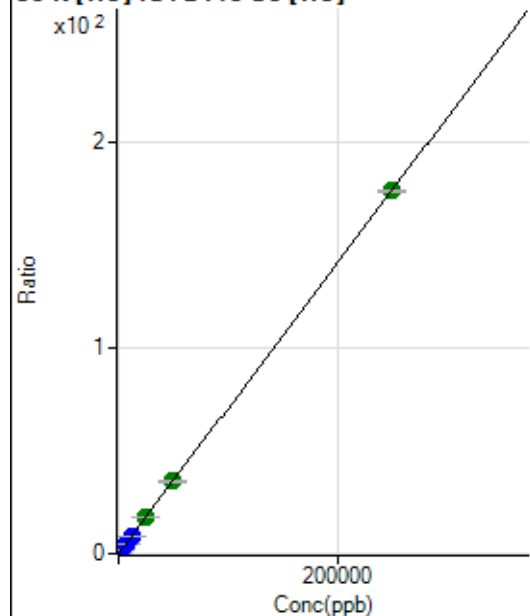
35 Cl [No Gas] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			97168.71		P	1.8
2	☐			97608.06		P	1.3
3	☐			97471.73		P	0.7
4	☐			107352.04		P	2.4
5	☐			101785.18		P	0.7
6	☐			132391.90		P	2.4
7	☐			264895.13		P	3.4
8	☐			64958.11		P	2.9

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			701.13		P	5.3
2	☐			705.58		P	7.0
3	☐			708.91		P	4.5
4	☐			818.92		P	5.1
5	☐			824.48		P	10.9
6	☐			1022.27		P	3.9
7	☐			2054.61		P	2.3
8	☐			608.91		P	8.9

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	5915.71	0.0519	P	2.8
2	☐	500.000	451.283	42876.80	0.3702	P	0.7
3	☐	2500.000	2419.419	192992.85	1.7580	P	0.8
4	☐	6250.000	6072.673	444854.93	4.3342	P	0.5
5	☐	12500.000	12160.347	827345.55	8.6270	P	1.0
6	☐	25000.000	24837.136	1626721.15	17.5662	A	1.7
7	☐	50000.000	49735.899	3229410.16	35.1239	A	1.2
8	☐	250000.00	250091.42	17999386.68	176.4072	A	0.7

$$y = 7.0516E-004 * x + 0.0519$$

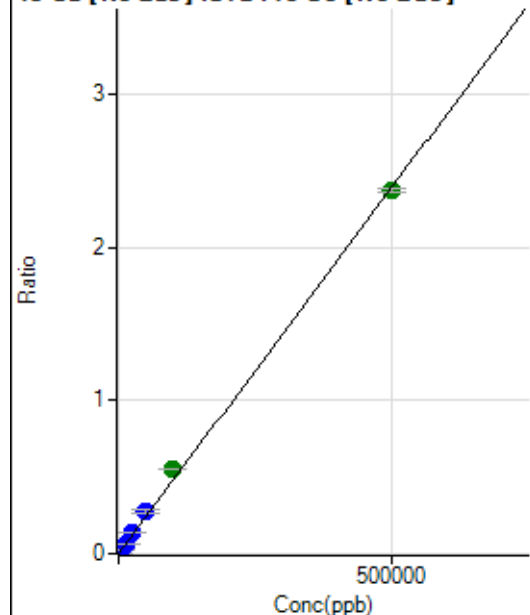
$$R = 1.0000$$

$$DL = 6.238$$

$$BEC = 73.64$$

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	123.34	0.0000	P	32.4
2	☐	500.000	456.899	7214.09	0.0022	P	2.0
3	☐	5000.000	5639.193	84807.84	0.0270	P	1.3
4	☐	12500.000	14042.232	197192.17	0.0672	P	0.8
5	☐	25000.000	27893.739	374092.92	0.1334	P	0.2
6	☐	50000.000	58160.528	721876.70	0.2781	P	5.9
7	☐	100000.00	115776.63	1490426.23	0.5535	A	1.2
8	☐	500000.00	495839.02	6226896.16	2.3705	A	0.9

$$y = 4.7806\text{E-}006 * x + 3.9296\text{E-}005$$

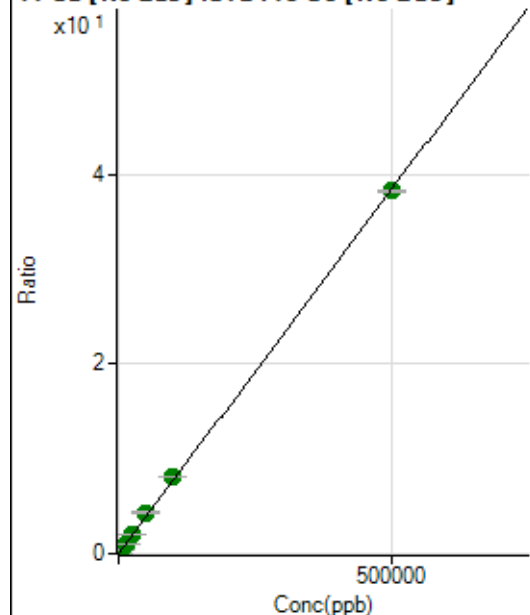
$$R = 0.9994$$

$$DL = 7.978$$

$$BEC = 8.22$$

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	9988.07	0.0032	P	0.7
2	☐	500.000	453.667	123289.89	0.0380	P	3.7
3	☐	5000.000	5491.979	1334477.88	0.4249	A	0.5
4	☐	12500.000	13442.526	3039348.84	1.0353	A	1.3
5	☐	25000.000	26829.564	5786734.36	2.0632	A	0.6
6	☐	50000.000	55866.023	11142603.73	4.2927	A	6.2
7	☐	100000.00	106031.18	21930894.67	8.1446	A	0.4
8	☐	500000.00	498087.24	100462440.7	38.2479	A	0.4

$$y = 7.6783\text{E-}005 * x + 0.0032$$

$$R = 0.9999$$

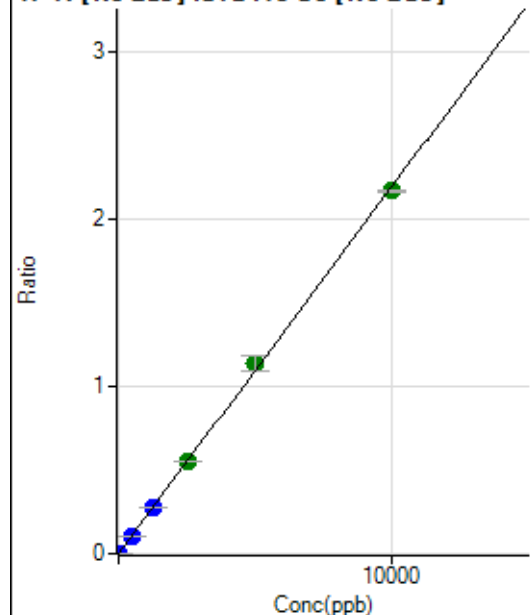
$$DL = 0.9294$$

$$BEC = 41.39$$

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	42.22	0.0000	P	36.8
2	☐	5.000	4.692	3383.77	0.0010	P	4.8
3	☐	500.000	494.725	340966.40	0.1086	P	0.5
4	☐	1250.000	1252.446	806739.89	0.2748	P	0.6
5	☐	2500.000	2529.496	1556441.97	0.5550	A	0.8
6	☐	5000.000	5189.516	2953753.78	1.1386	A	7.7
7	☐	10000.000	9897.826	5847540.12	2.1716	A	0.4
8	☐			1616.78	0.0006	P	29.3

$$y = 2.1940\text{E-}004 * x + 1.3441\text{E-}005$$

$$R = 0.9997$$

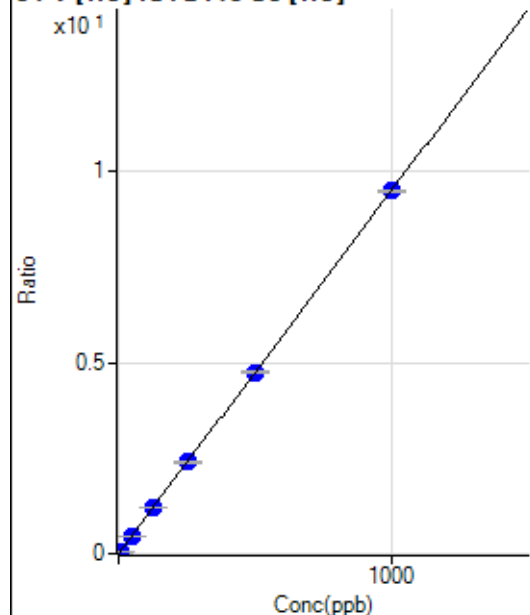
$$DL = 0.06756$$

$$BEC = 0.06127$$

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	5.56	0.0000	P	173.
2	☐	5.000	4.706	5180.99	0.0447	P	1.6
3	☐	50.000	49.493	51583.64	0.4699	P	1.6
4	☐	125.000	124.660	121473.20	1.1835	P	0.2
5	☐	250.000	252.383	229775.63	2.3960	P	0.9
6	☐	500.000	500.364	439913.27	4.7502	P	0.8
7	☐	1000.000	999.292	872261.31	9.4866	P	0.5
8	☐			748.94	0.0073	P	57.5

$$y = 0.0095 * x + 4.8891\text{E-}005$$

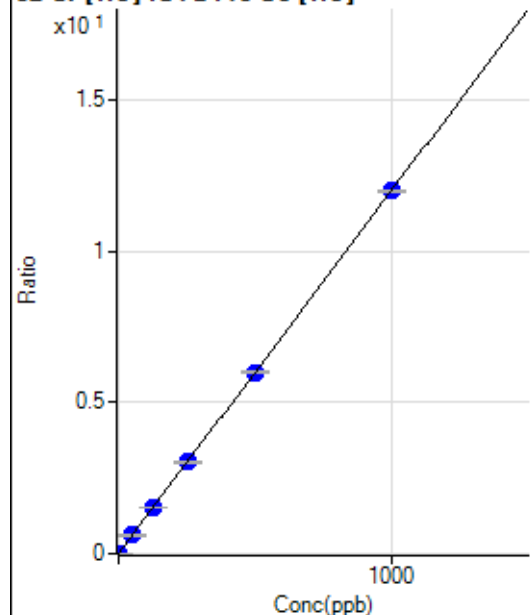
$$R = 1.0000$$

$$DL = 0.02676$$

$$BEC = 0.00515$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	634.47	0.0056	P	9.7
2	☐	2.000	1.839	3204.83	0.0277	P	1.4
3	☐	50.000	50.196	66812.96	0.6087	P	2.0
4	☐	125.000	125.967	155917.27	1.5191	P	0.4
5	☐	250.000	251.990	290888.23	3.0332	P	0.8
6	☐	500.000	499.903	556752.08	6.0119	P	1.0
7	☐	1000.000	999.421	1104623.35	12.0137	P	0.4
8	☐			38349.12	0.3758	P	0.8

$$y = 0.0120 * x + 0.0056$$

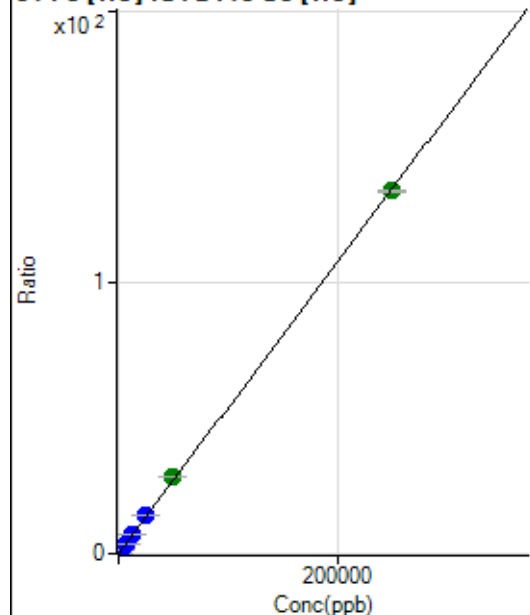
$$R = 1.0000$$

$$DL = 0.1342$$

$$BEC = 0.4636$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	251.12	0.0022	P	12.6
2	☐	50.000	49.027	3308.20	0.0286	P	5.0
3	☐	2500.000	2620.143	154863.81	1.4107	P	0.6
4	☐	6250.000	6532.571	360652.53	3.5138	P	0.7
5	☐	12500.000	13202.700	680823.25	7.0993	P	1.4
6	☐	25000.000	26136.183	1301324.88	14.0517	P	0.8
7	☐	50000.000	52953.753	2617522.44	28.4675	A	0.3
8	☐	250000.00	249252.23	13669301.88	133.9877	A	0.9

$$y = 5.3755E-004 * x + 0.0022$$

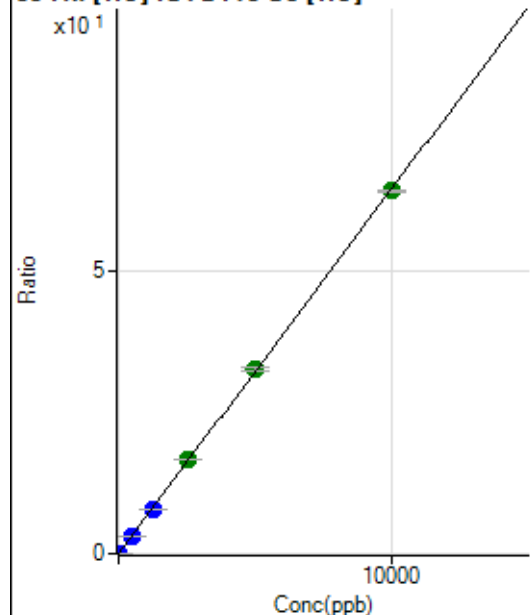
$$R = 0.9999$$

$$DL = 1.547$$

$$BEC = 4.102$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	41.11	0.0004	P	18.9
2	☐	1.000	0.963	760.03	0.0066	P	3.0
3	☐	500.000	489.795	346112.84	3.1530	P	1.4
4	☐	1250.000	1228.048	811351.69	7.9049	P	0.5
5	☐	2500.000	2579.506	1592324.20	16.6037	A	0.6
6	☐	5000.000	5063.667	3018563.57	32.5933	A	1.0
7	☐	10000.000	9951.544	5889614.15	64.0548	A	0.5
8	☐			7874.25	0.0771	P	31.3

$$y = 0.0064 * x + 3.6100E-004$$

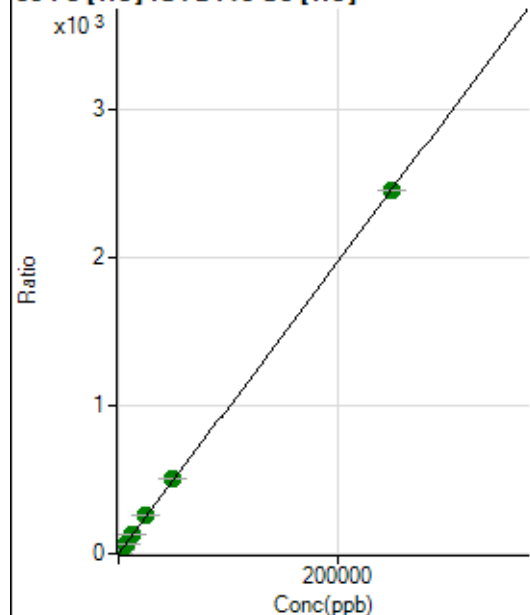
$$R = 0.9999$$

$$DL = 0.03186$$

$$BEC = 0.05608$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2146.85	0.0188	P	3.4
2	☐	50.000	48.234	57147.12	0.4934	P	1.9
3	☐	2500.000	2678.780	2895513.33	26.3746	A	0.3
4	☐	6250.000	6677.097	6744809.83	65.7128	A	1.2
5	☐	12500.000	13298.556	12549718.56	130.8593	A	0.5
6	☐	25000.000	26208.383	23882023.54	257.8752	A	0.7
7	☐	50000.000	51864.616	46919910.97	510.2991	A	1.3
8	☐	250000.00	249453.84	250412245.1	2,454.319	A	0.1

$$y = 0.0098 * x + 0.0188$$

$$R = 1.0000$$

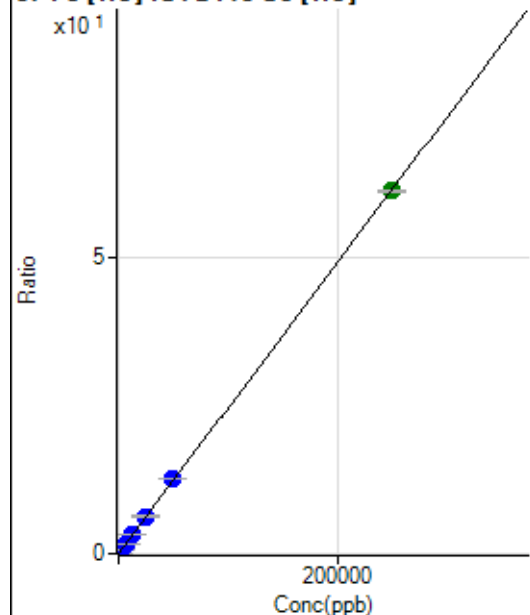
$$DL = 0.1942$$

$$BEC = 1.915$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	76.67	0.0007	P	31.6
2	☐	50.000	49.639	1487.87	0.0128	P	1.6
3	☐	2500.000	2554.061	68825.12	0.6270	P	1.4
4	☐	6250.000	6491.516	163455.41	1.5925	P	1.0
5	☐	12500.000	13037.525	306669.61	3.1977	P	0.4
6	☐	25000.000	25691.653	583484.32	6.3007	P	1.4
7	☐	50000.000	51127.113	1152829.24	12.5380	P	0.3
8	☐	250000.00	249671.95	6246381.37	61.2247	A	0.4

$$y = 2.4522\text{E-}004 * x + 6.7342\text{E-}004$$

$$R = 1.0000$$

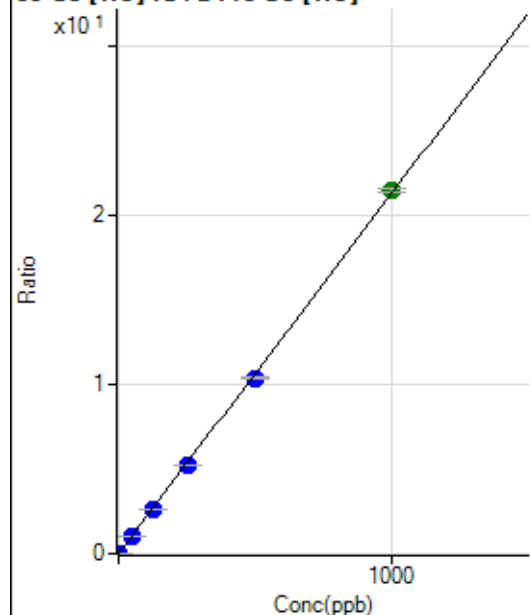
$$DL = 2.603$$

$$BEC = 2.746$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	48.89	0.0004	P	8.1
2	☐	1.000	0.969	2435.79	0.0210	P	5.9
3	☐	50.000	49.022	114504.97	1.0432	P	1.9
4	☐	125.000	123.979	270719.48	2.6376	P	0.5
5	☐	250.000	246.715	503317.54	5.2482	P	0.5
6	☐	500.000	487.211	959757.84	10.3638	P	1.1
7	☐	1000.000	1007.392	1970254.69	21.4285	A	1.0
8	☐			5981.40	0.0586	P	12.5

$$y = 0.0213 * x + 4.2922\text{E-}004$$

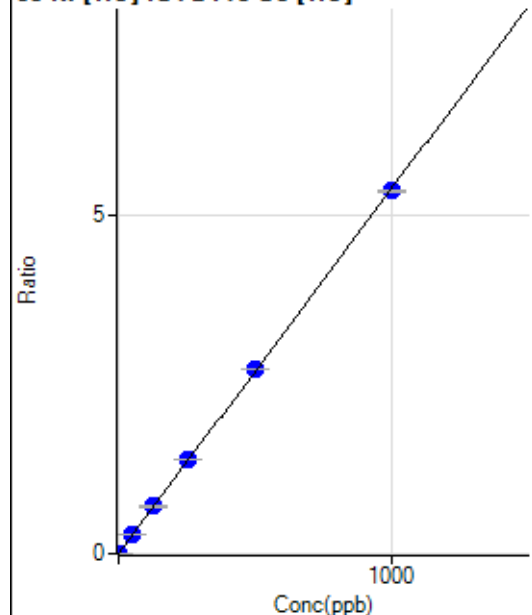
$$R = 0.9999$$

$$DL = 0.004889$$

$$BEC = 0.02018$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	44.44	0.0004	P	34.0
2	☐	1.000	0.961	645.58	0.0056	P	13.4
3	☐	50.000	52.012	30813.38	0.2807	P	2.7
4	☐	125.000	129.452	71654.74	0.6981	P	1.0
5	☐	250.000	257.800	133288.85	1.3899	P	1.7
6	☐	500.000	506.100	252660.60	2.7282	P	0.9
7	☐	1000.000	994.343	492809.07	5.3598	P	0.7
8	☐			11072.16	0.1085	P	0.5

$$y = 0.0054 * x + 3.9021E-004$$

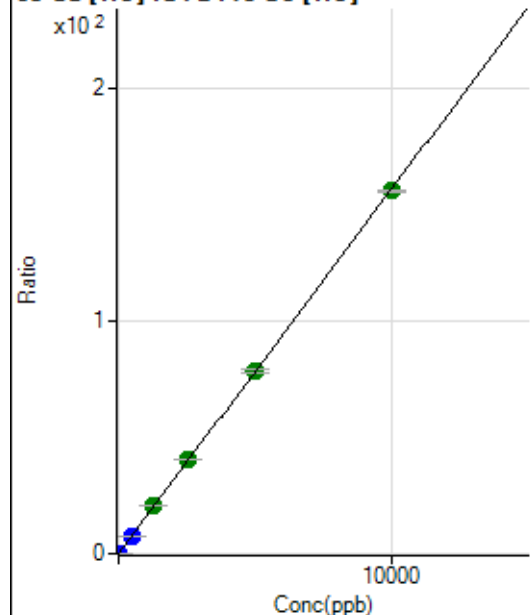
$$R = 0.9999$$

$$DL = 0.07375$$

$$BEC = 0.0724$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	643.36	0.0056	P	3.7
2	☐	2.000	1.820	3958.37	0.0342	P	2.4
3	☐	500.000	499.272	859568.24	7.8298	P	0.6
4	☐	1250.000	1307.459	2103564.27	20.4949	A	1.4
5	☐	2500.000	2596.712	3902987.79	40.6988	A	0.9
6	☐	5000.000	5030.230	7299998.99	78.8345	A	2.0
7	☐	10000.000	9953.561	14342723.68	155.9882	A	0.2
8	☐			10194.60	0.0998	P	57.5

$$y = 0.0157 * x + 0.0056$$

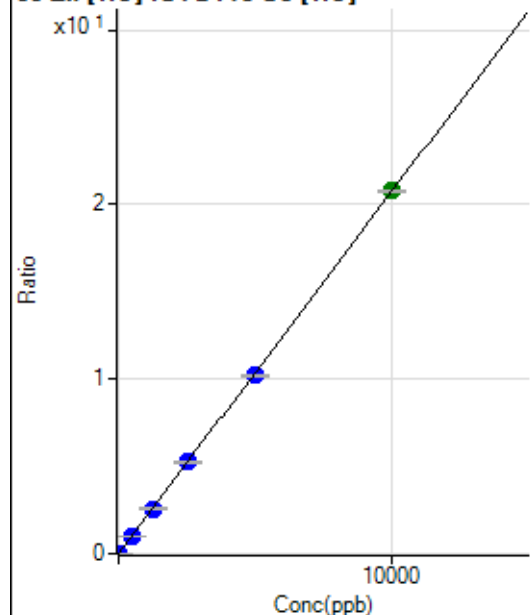
$$R = 0.9999$$

$$DL = 0.04051$$

$$BEC = 0.3604$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	270.01	0.0024	P	4.5
2	☐	2.000	4.756	1415.64	0.0122	P	3.4
3	☐	500.000	497.319	113327.92	1.0323	P	0.3
4	☐	1250.000	1246.067	265107.54	2.5829	P	1.1
5	☐	2500.000	2530.675	502836.52	5.2432	P	0.7
6	☐	5000.000	4925.808	944885.55	10.2034	P	1.3
7	☐	10000.000	10030.052	1910189.66	20.7739	A	0.7
8	☐			4478.66	0.0439	P	19.7

$$y = 0.0021 * x + 0.0024$$

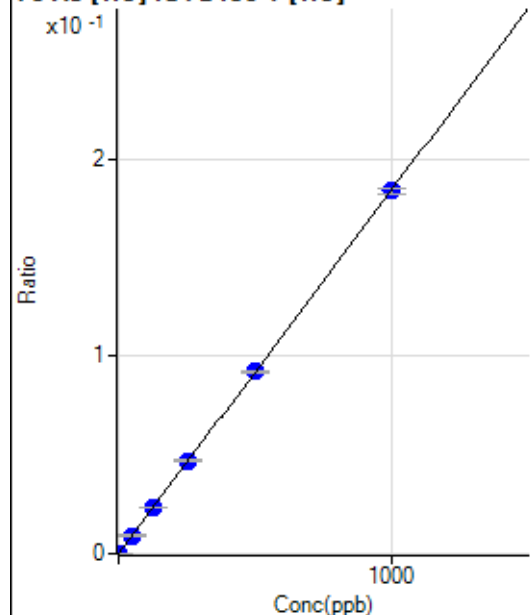
$$R = 1.0000$$

$$DL = 0.1532$$

$$BEC = 1.145$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	3.33	0.0000	P	100.
2	☐	1.000	1.037	130.00	0.0002	P	8.8
3	☐	50.000	50.217	5793.47	0.0093	P	3.7
4	☐	125.000	126.572	13753.48	0.0233	P	3.2
5	☐	250.000	255.484	26038.55	0.0470	P	1.4
6	☐	500.000	500.910	49271.30	0.0922	P	0.5
7	☐	1000.000	997.967	97413.75	0.1837	P	1.3
8	☐			102.22	0.0002	P	33.4

$$y = 1.8410E-004 * x + 5.1533E-006$$

$$R = 1.0000$$

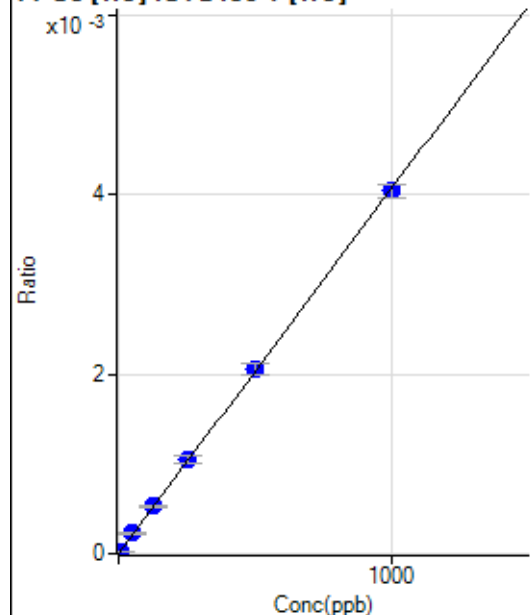
$$DL = 0.0842$$

$$BEC = 0.02799$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	3.707	10.00	0.0000	P	32.7
3	☐	50.000	55.897	142.23	0.0002	P	9.1
4	☐	125.000	129.283	310.01	0.0005	P	3.2
5	☐	250.000	257.918	580.02	0.0010	P	6.3
6	☐	500.000	506.816	1100.05	0.0021	P	6.3
7	☐	1000.000	993.789	2141.30	0.0040	P	3.9
8	☐			11.11	0.0000	P	15.9

$$y = 4.0643\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9999$$

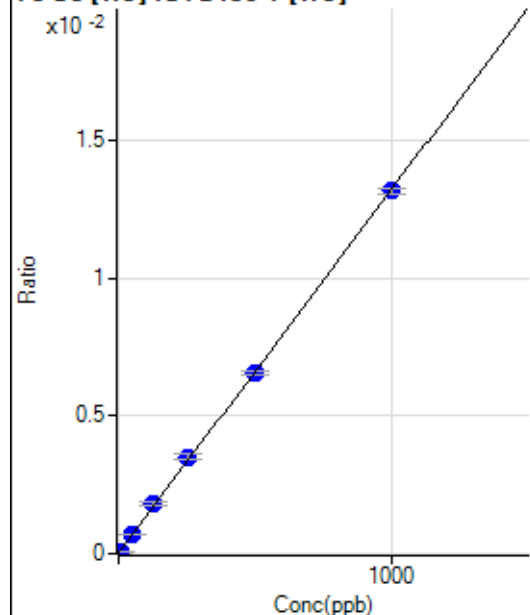
$$DL = 0$$

$$BEC = 0$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	13.33	0.0000	P	90.0
2	☐	5.000	4.033	48.89	0.0001	P	10.8
3	☐	50.000	51.286	436.68	0.0007	P	7.1
4	☐	125.000	135.427	1066.72	0.0018	P	5.0
5	☐	250.000	265.277	1947.93	0.0035	P	7.4
6	☐	500.000	497.025	3514.92	0.0066	P	2.1
7	☐	1000.000	996.305	6981.80	0.0132	P	1.4
8	☐			58.89	0.0001	P	6.7

$$y = 1.3195\text{E-}005 * x + 2.0553\text{E-}005$$

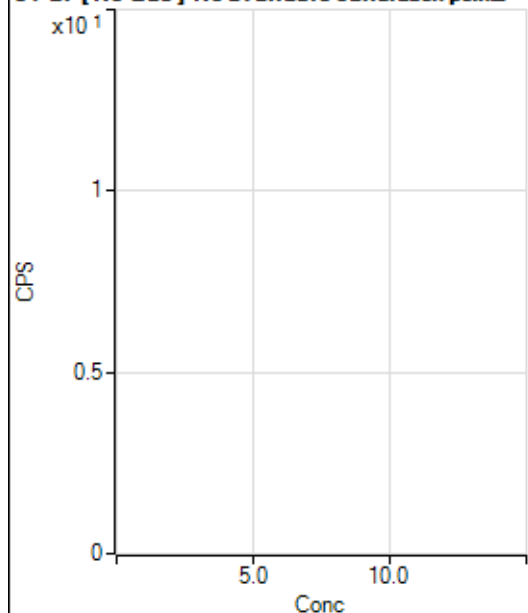
$$R = 0.9998$$

$$DL = 4.205$$

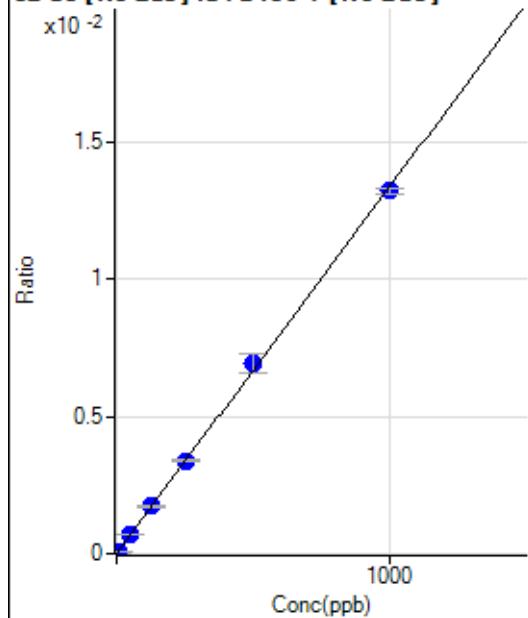
$$BEC = 1.558$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2179.08		P	2.4
2	☐			2265.77		P	3.1
3	☐			2149.07		P	4.2
4	☐			1986.84		P	3.3
5	☐			1914.60		P	7.6
6	☐			1652.33		P	3.4
7	☐			1623.45		P	3.1
8	☐			2803.64		P	7.4

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	15.55	0.0000	P	43.3
2	☐	5.000	4.498	392.24	0.0001	P	5.7
3	☐	50.000	51.015	4176.26	0.0007	P	1.6
4	☐	125.000	129.014	10083.79	0.0017	P	1.9
5	☐	250.000	253.346	18867.43	0.0034	P	1.5
6	☐	500.000	519.342	36115.66	0.0069	P	9.6
7	☐	1000.000	988.942	71004.99	0.0132	P	1.6
8	☐			396.68	0.0001	P	10.6

$$y = 1.3358\text{E-}005 * x + 2.5299\text{E-}006$$

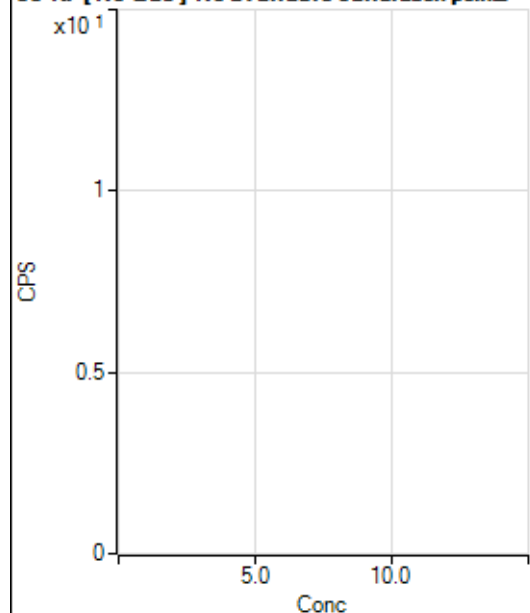
$$R = 0.9997$$

$$DL = 0.2458$$

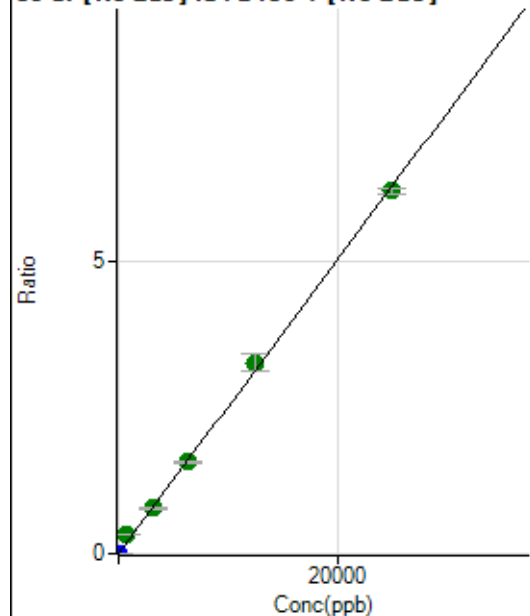
$$BEC = 0.1894$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			140.00		P	10.9
2	☐			150.00		P	4.4
3	☐			156.67		P	7.7
4	☐			115.56		P	16.4
5	☐			128.89		P	13.0
6	☐			110.00		P	13.2
7	☐			138.89		P	3.7
8	☐			152.23		P	12.1

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	252.23	0.0000	P	20.2
2	☐	1.000	0.958	1760.13	0.0003	P	2.6
3	☐	625.000	1261.184	1928767.07	0.3159	A	2.0
4	☐	3125.000	3103.723	4541599.20	0.7773	A	1.8
5	☐	6250.000	6230.107	8692601.81	1.5603	A	1.9
6	☐	12500.000	13010.334	16962836.27	3.2583	A	8.9
7	☐	25000.000	24736.561	33292410.06	6.1950	A	1.5
8	☐			5716.93	0.0011	P	34.4

$$y = 2.5044\text{E-}004 * x + 4.1207\text{E-}005$$

$$R = 0.9994$$

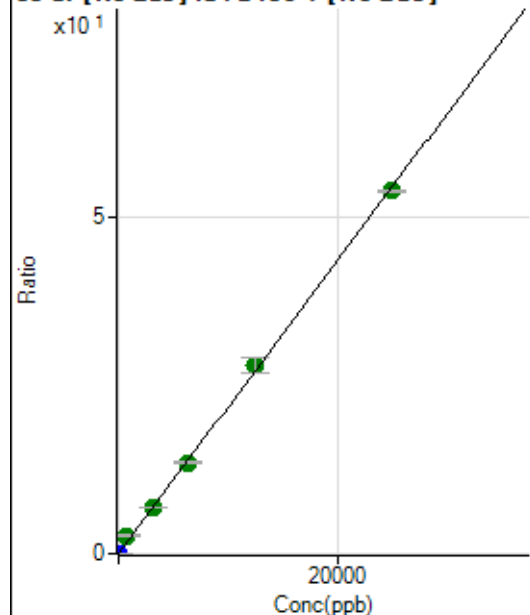
$$DL = 0.09948$$

$$BEC = 0.1645$$

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	358.89	0.0001	P	7.0
2	☐	1.000	0.913	12783.72	0.0020	P	2.1
3	☐	625.000	1246.723	16534022.11	2.7079	A	0.9
4	☐	3125.000	3106.739	39426483.86	6.7479	A	1.1
5	☐	6250.000	6196.150	74973551.66	13.4581	A	1.7
6	☐	12500.000	12917.743	146101371.1	28.0573	A	8.4
7	☐	25000.000	24791.330	289385911.2	53.8467	A	0.9
8	☐			47928.54	0.0091	P	36.7

$$y = 0.0022 * x + 5.8600E-005$$

$$R = 0.9995$$

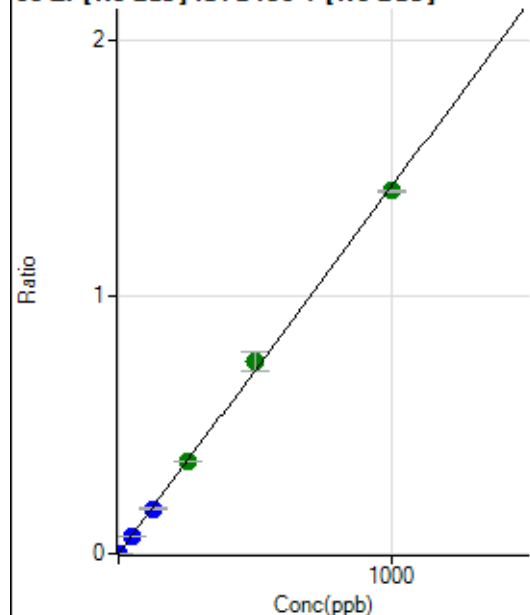
$$DL = 0.005646$$

$$BEC = 0.02698$$

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	271.12	0.0000	P	13.7
2	☐	1.000	0.860	7967.90	0.0013	P	2.3
3	☐	50.000	48.702	425209.39	0.0696	P	0.9
4	☐	125.000	122.838	1025811.04	0.1756	P	1.9
5	☐	250.000	251.609	2003318.70	0.3596	A	1.5
6	☐	500.000	523.107	3890017.93	0.7476	A	9.7
7	☐	1000.000	988.380	7591736.42	1.4125	A	0.8
8	☐			3416.02	0.0007	P	10.9

$$y = 0.0014 * x + 4.4216E-005$$

$$R = 0.9996$$

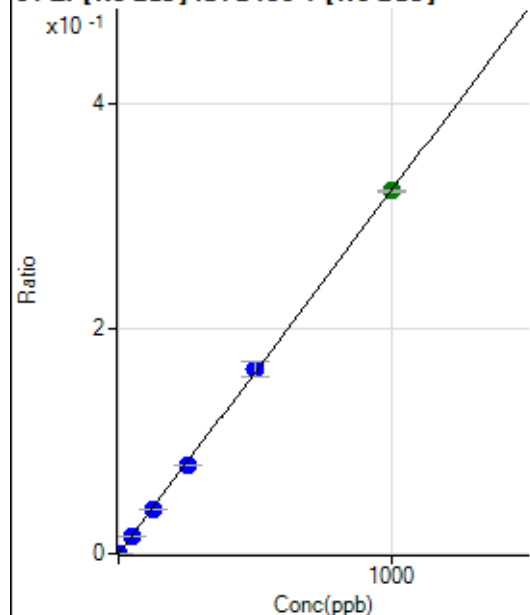
$$DL = 0.01276$$

$$BEC = 0.03094$$

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	65.55	0.0000	P	21.3
2	☐	1.000	0.843	1773.47	0.0003	P	3.1
3	☐	50.000	48.159	95143.97	0.0156	P	1.4
4	☐	125.000	121.345	229296.87	0.0392	P	1.8
5	☐	250.000	242.811	437472.52	0.0785	P	0.9
6	☐	500.000	507.353	854044.66	0.1641	P	9.0
7	☐	1000.000	998.669	1735551.59	0.3229	A	0.8
8	☐			752.25	0.0001	P	4.5

$$y = 3.2334\text{E-}004 * x + 1.0708\text{E-}005$$

$$R = 0.9999$$

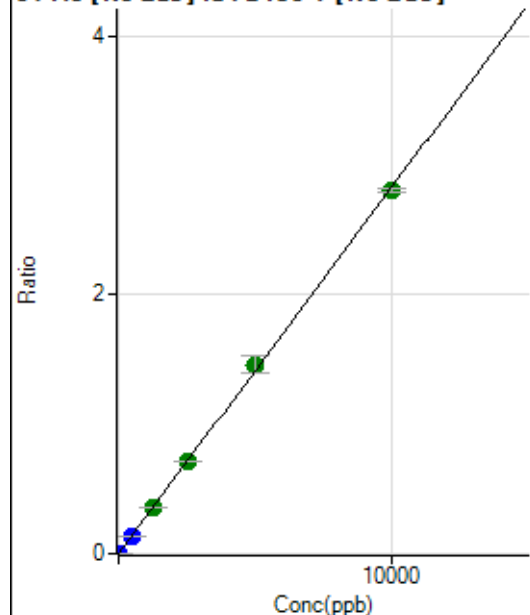
$$DL = 0.02117$$

$$BEC = 0.03312$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	104.44	0.0000	P	11.0
2	☐	5.000	5.383	9646.74	0.0015	P	2.1
3	☐	500.000	493.818	853373.70	0.1398	P	1.5
4	☐	1250.000	1269.851	2099665.80	0.3594	A	1.6
5	☐	2500.000	2534.228	3995793.69	0.7172	A	0.5
6	☐	5000.000	5163.179	7607130.09	1.4612	A	8.8
7	☐	10000.000	9907.681	15068087.97	2.8038	A	1.2
8	☐			8399.31	0.0016	P	12.2

$$y = 2.8299\text{E-}004 * x + 1.7062\text{E-}005$$

$$R = 0.9998$$

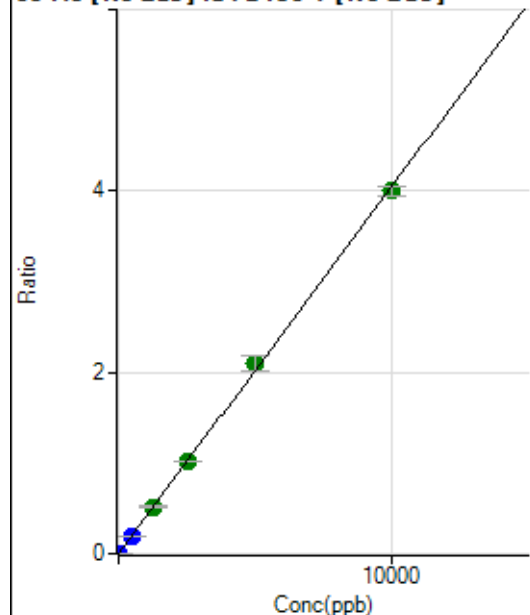
$$DL = 0.01998$$

$$BEC = 0.06029$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	18.89	0.0000	P	11.4
2	☐	5.000	4.567	11591.58	0.0019	P	1.7
3	☐	500.000	491.441	1214443.88	0.1989	P	1.2
4	☐	1250.000	1281.615	3030409.95	0.5187	A	2.2
5	☐	2500.000	2508.586	5656482.49	1.0153	A	0.9
6	☐	5000.000	5206.142	10972627.20	2.1071	A	8.3
7	☐	10000.000	9891.259	21511428.01	4.0033	A	2.7
8	☐			12670.42	0.0024	P	13.1

$$y = 4.0473\text{E-}004 * x + 3.0859\text{E-}006$$

$$R = 0.9997$$

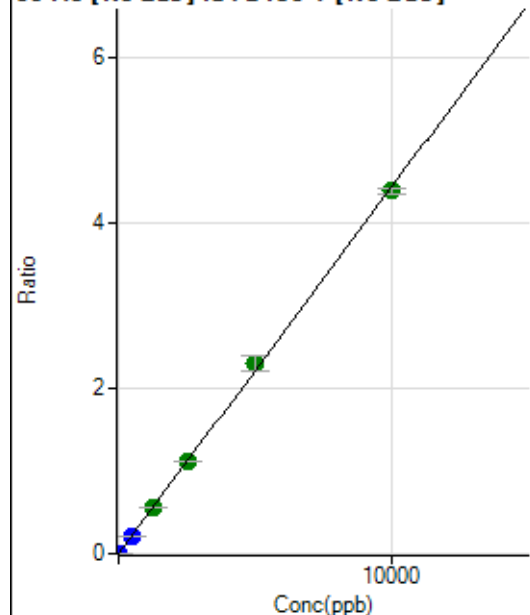
$$DL = 0.002605$$

$$BEC = 0.007625$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	56.67	0.0000	P	22.4
2	☐	5.000	4.583	12798.21	0.0020	P	2.6
3	☐	500.000	487.798	1322450.69	0.2166	P	0.8
4	☐	1250.000	1267.726	3288728.67	0.5629	A	1.2
5	☐	2500.000	2521.106	6236706.30	1.1194	A	0.7
6	☐	5000.000	5187.658	11994754.40	2.3033	A	8.3
7	☐	10000.000	9899.289	23619636.87	4.3953	A	1.9
8	☐			13516.74	0.0026	P	11.5

$$y = 4.4400\text{E-}004 * x + 9.2666\text{E-}006$$

$$R = 0.9997$$

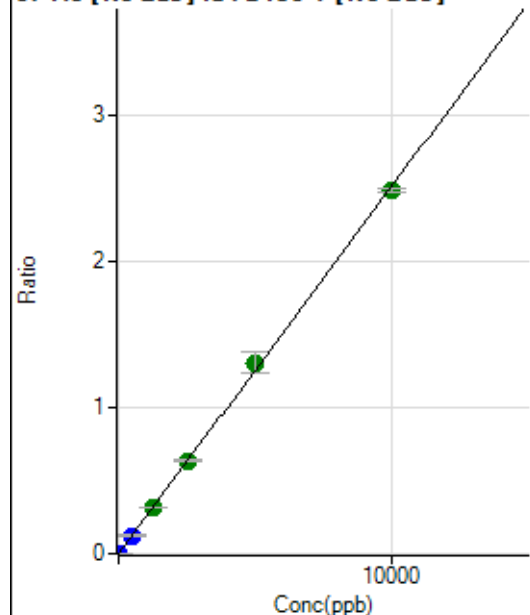
$$DL = 0.01403$$

$$BEC = 0.02087$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	11.11	0.0000	P	44.5
2	☐	5.000	4.610	7245.29	0.0012	P	0.6
3	☐	500.000	496.716	760072.81	0.1245	P	0.8
4	☐	1250.000	1271.880	1862297.99	0.3187	A	1.8
5	☐	2500.000	2530.166	3532526.61	0.6341	A	1.3
6	☐	5000.000	5210.162	6789896.15	1.3057	A	10.9
7	☐	10000.000	9884.807	13313221.75	2.4772	A	1.0
8	☐			7593.26	0.0014	P	9.0

$$y = 2.5061\text{E-}004 * x + 1.8064\text{E-}006$$

$$R = 0.9997$$

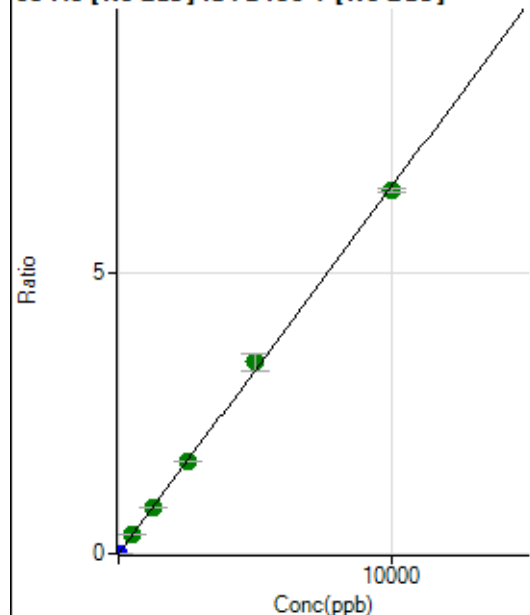
$$DL = 0.009613$$

$$BEC = 0.007208$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	17.78	0.0000	P	40.0
2	☐	5.000	4.504	18509.10	0.0030	P	1.0
3	☐	500.000	502.058	2009829.26	0.3292	A	1.2
4	☐	1250.000	1250.814	4791251.14	0.8201	A	1.6
5	☐	2500.000	2509.565	9166033.96	1.6453	A	1.4
6	☐	5000.000	5220.980	17816245.57	3.4230	A	9.3
7	☐	10000.000	9886.914	34836443.65	6.4821	A	0.9
8	☐			19392.71	0.0037	P	10.6

$$y = 6.5563\text{E-}004 * x + 2.9116\text{E-}006$$

$$R = 0.9996$$

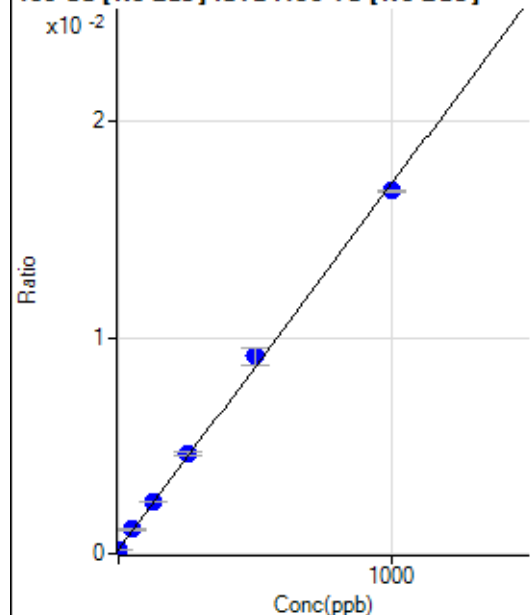
$$DL = 0.005331$$

$$BEC = 0.004441$$

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	1396.75	0.0002	P	6.1
2	☐	1.000	1.390	1611.23	0.0002	P	3.4
3	☐	50.000	55.091	8293.67	0.0011	P	4.5
4	☐	125.000	132.221	17849.36	0.0024	P	0.2
5	☐	250.000	263.330	32805.67	0.0046	P	2.8
6	☐	500.000	528.477	61201.68	0.0091	P	9.1
7	☐	1000.000	981.271	118094.69	0.0168	P	0.2
8	☐			1306.74	0.0002	P	4.4

$$y = 1.6932E-005 * x + 1.9042E-004$$

$$R = 0.9993$$

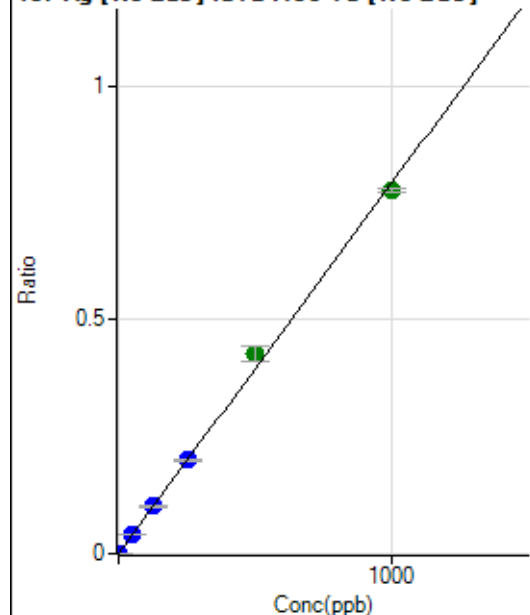
$$DL = 2.049$$

$$BEC = 11.25$$

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	51.11	0.0000	P	17.3
2	☐	1.000	0.970	5830.18	0.0008	P	1.5
3	☐	50.000	52.880	308988.34	0.0418	P	0.9
4	☐	125.000	127.249	739754.82	0.1007	P	0.3
5	☐	250.000	252.848	1411633.50	0.2000	P	2.5
6	☐	500.000	538.628	2855980.10	0.4261	A	7.4
7	☐	1000.000	979.549	5445650.40	0.7750	A	1.0
8	☐			1170.06	0.0002	P	10.0

$$y = 7.9114E-004 * x + 6.9746E-006$$

$$R = 0.9989$$

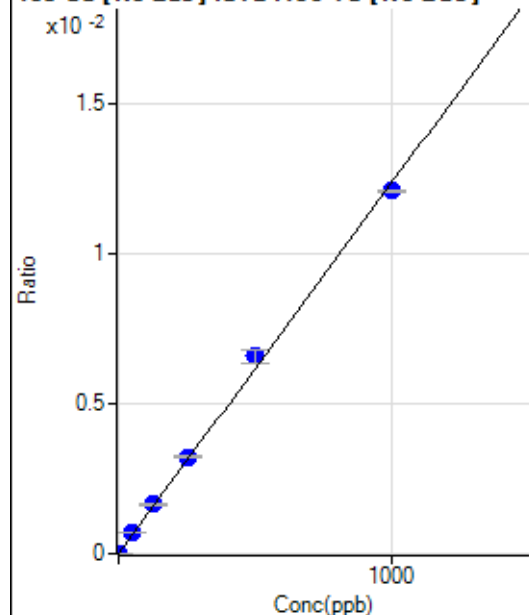
$$DL = 0.00458$$

$$BEC = 0.008816$$

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	0.00	0.0000	P	
2	☐	1.000	1.254	116.67	0.0000	P	31.0
3	☐	50.000	55.519	5074.32	0.0007	P	2.6
4	☐	125.000	132.773	12073.16	0.0016	P	2.1
5	☐	250.000	261.942	22886.89	0.0032	P	0.8
6	☐	500.000	533.399	44249.69	0.0066	P	7.1
7	☐	1000.000	979.067	85147.52	0.0121	P	0.8
8	☐			84.45	0.0000	P	29.7

$$y = 1.2377\text{E-}005 * x + 0.0000\text{E+}000$$

$$R = 0.9991$$

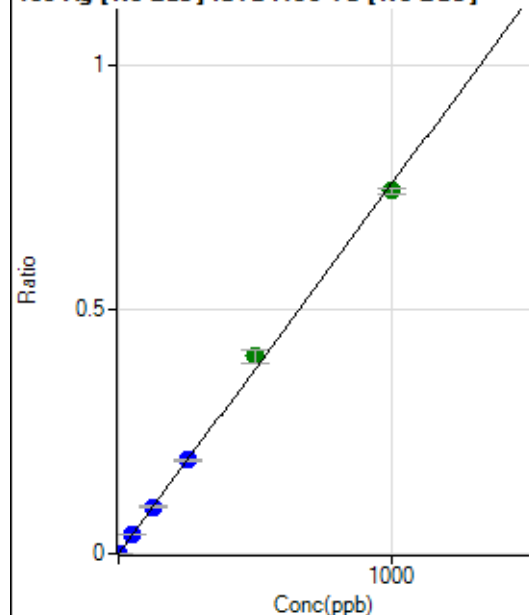
$$DL = 0$$

$$BEC = 0$$

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	35.56	0.0000	P	79.0
2	☐	1.000	0.975	5592.30	0.0007	P	1.8
3	☐	50.000	53.007	296304.10	0.0401	P	1.2
4	☐	125.000	127.245	707663.50	0.0963	P	1.0
5	☐	250.000	252.676	1349736.15	0.1913	P	1.8
6	☐	500.000	534.387	2711143.19	0.4045	A	7.2
7	☐	1000.000	981.707	5220823.40	0.7430	A	1.9
8	☐			1151.17	0.0002	P	7.3

$$y = 7.5688\text{E-}004 * x + 4.8718\text{E-}006$$

$$R = 0.9991$$

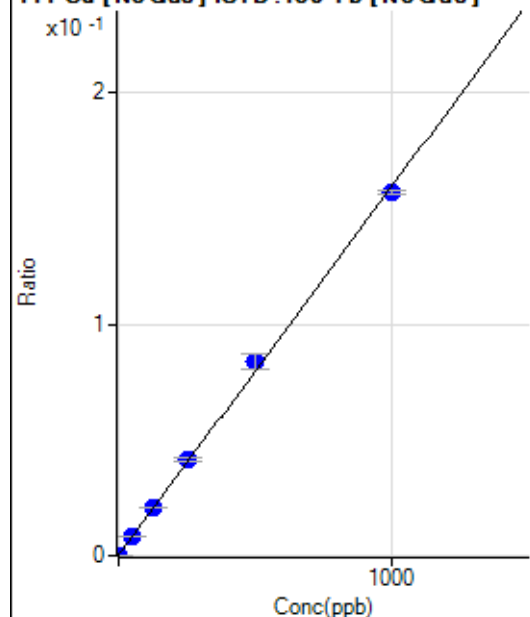
$$DL = 0.01525$$

$$BEC = 0.006437$$

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	985.50	0.0001	P	5.7
2	☐	1.000	1.094	2321.82	0.0003	P	0.2
3	☐	50.000	53.499	63817.15	0.0086	P	1.3
4	☐	125.000	130.327	153274.81	0.0209	P	0.3
5	☐	250.000	261.260	294089.56	0.0417	P	3.2
6	☐	500.000	525.266	560631.48	0.0837	P	7.7
7	☐	1000.000	983.711	1100213.30	0.1566	P	0.9
8	☐			1596.74	0.0002	P	2.8

$$y = 1.5903\text{E-}004 * x + 1.3435\text{E-}004$$

$$R = 0.9994$$

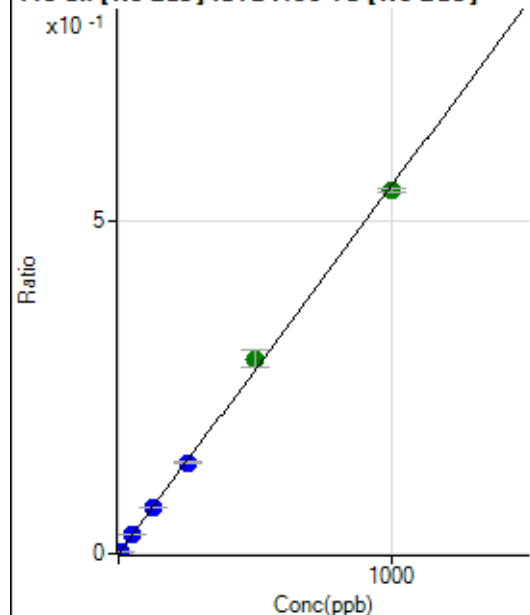
$$DL = 0.1437$$

$$BEC = 0.8448$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	578.91	0.0001	P	4.2
2	☐	5.000	4.705	20211.65	0.0027	P	1.0
3	☐	50.000	50.846	208494.39	0.0282	P	1.0
4	☐	125.000	123.559	503291.57	0.0685	P	0.6
5	☐	250.000	247.458	967593.02	0.1371	P	1.9
6	☐	500.000	528.971	1962130.72	0.2930	A	8.9
7	☐	1000.000	986.290	3838110.47	0.5462	A	1.1
8	☐			4627.50	0.0007	P	3.4

$$y = 5.5374\text{E-}004 * x + 7.8942\text{E-}005$$

$$R = 0.9994$$

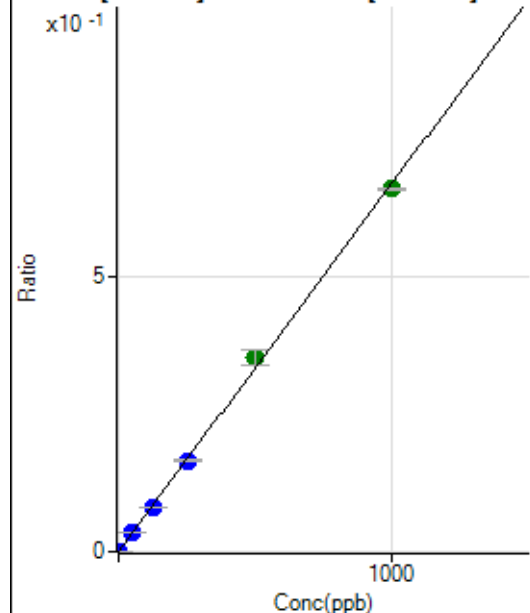
$$DL = 0.01798$$

$$BEC = 0.1426$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	21.11	0.0000	P	17.4
2	☐	2.000	1.911	9613.45	0.0013	P	2.0
3	☐	50.000	50.095	246565.66	0.0334	P	0.6
4	☐	125.000	122.385	599310.80	0.0816	P	0.6
5	☐	250.000	246.991	1161543.91	0.1646	P	2.6
6	☐	500.000	528.797	2360646.15	0.3524	A	8.5
7	☐	1000.000	986.676	4620972.47	0.6576	A	0.9
8	☐			4209.59	0.0006	P	12.9

$$y = 6.6645E-004 * x + 2.8747E-006$$

$$R = 0.9994$$

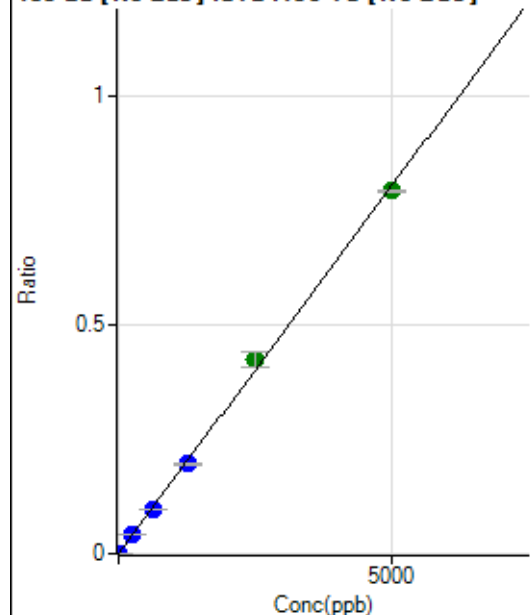
$$DL = 0.002249$$

$$BEC = 0.004314$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	94.45	0.0000	P	22.8
2	☐	10.000	9.288	11339.29	0.0015	P	1.5
3	☐	250.000	250.865	297932.39	0.0403	P	1.0
4	☐	625.000	610.613	721420.94	0.0982	P	0.0
5	☐	1250.000	1222.925	1387634.01	0.1966	P	1.9
6	☐	2500.000	2642.740	2846747.49	0.4249	A	8.0
7	☐	5000.000	4937.155	5577842.77	0.7938	A	0.6
8	☐			3234.87	0.0005	P	12.4

$$y = 1.6077E-004 * x + 1.2859E-005$$

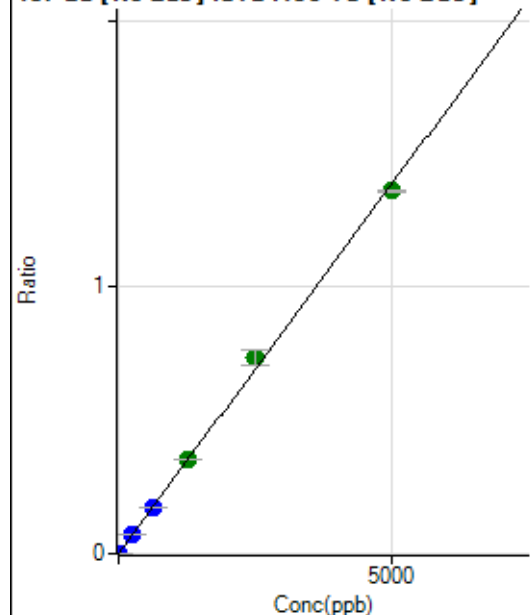
$$R = 0.9994$$

$$DL = 0.05463$$

$$BEC = 0.07998$$

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	51.11	0.0000	P	32.9
2	☐	10.000	9.552	19960.36	0.0027	P	1.4
3	☐	250.000	254.410	520013.76	0.0704	P	0.5
4	☐	625.000	621.755	1264385.54	0.1721	P	0.5
5	☐	1250.000	1272.837	2486304.96	0.3523	A	1.4
6	☐	2500.000	2662.348	4936303.09	0.7368	A	8.3
7	☐	5000.000	4913.303	9554962.43	1.3598	A	0.8
8	☐			5623.47	0.0008	P	7.2

$$y = 2.7676E-004 * x + 6.9714E-006$$

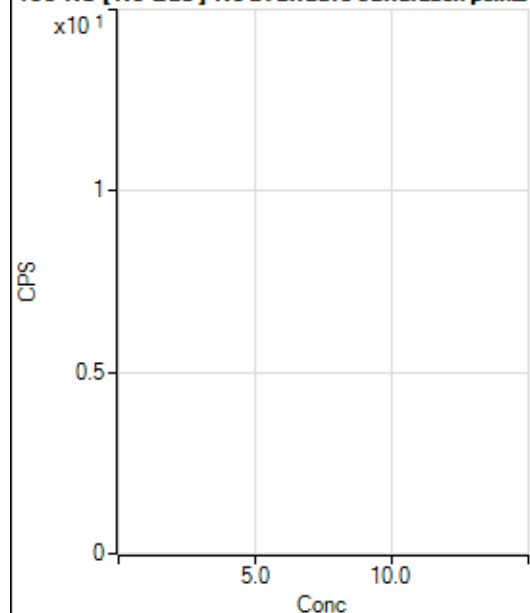
$$R = 0.9992$$

$$DL = 0.02483$$

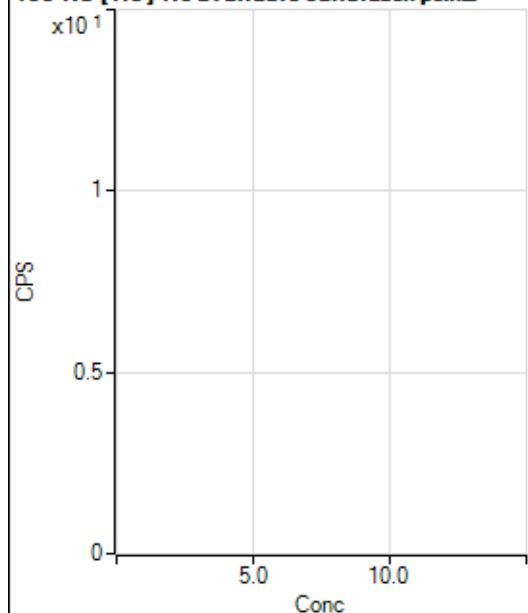
$$BEC = 0.02519$$

Weight: <None>

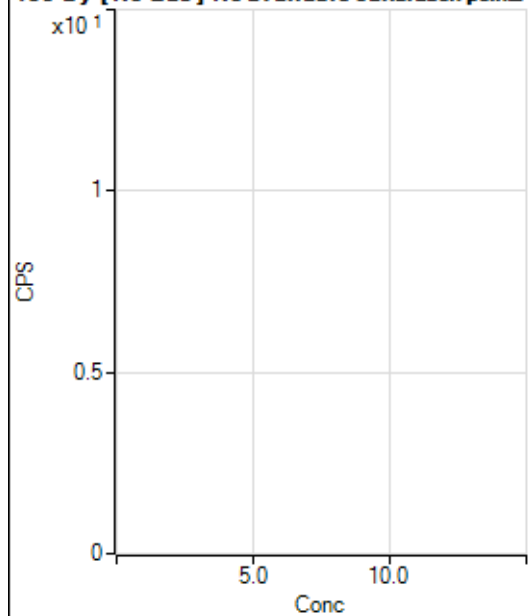
Min Conc: 0

150 Nd [No Gas] No available calibration points

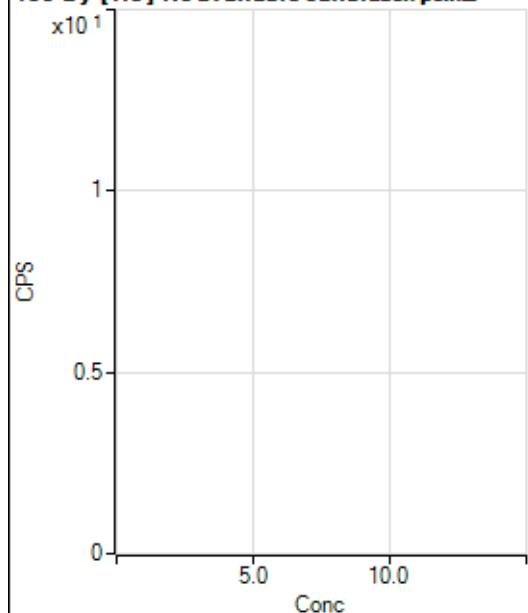
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			7.78		P	49.5
2	☐			6.67		P	50.0
3	☐			45.55		P	29.6
4	☐			55.55		P	12.5
5	☐			112.22		P	33.1
6	☐			185.56		P	22.5
7	☐			385.57		P	7.8
8	☐			153.34		P	17.3

150 Nd [He] No available calibration points

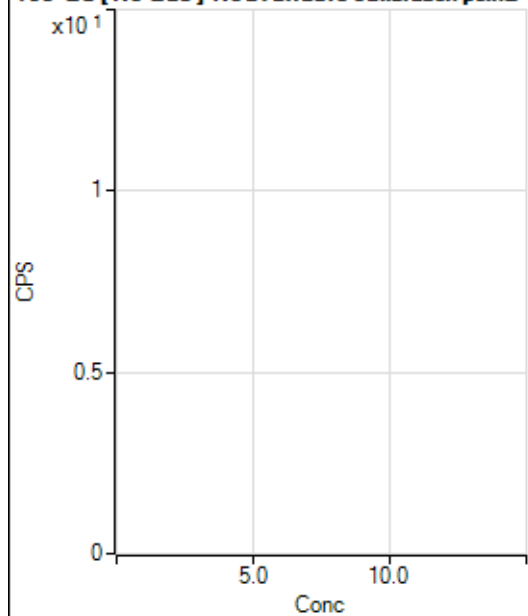
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			5.55		P	124.
3	☐			3.33		P	100.
4	☐			7.78		P	99.0
5	☐			17.78		P	84.6
6	☐			26.67		P	25.0
7	☐			64.44		P	13.0
8	☐			55.56		P	33.0

156 Dy [No Gas] No available calibration points

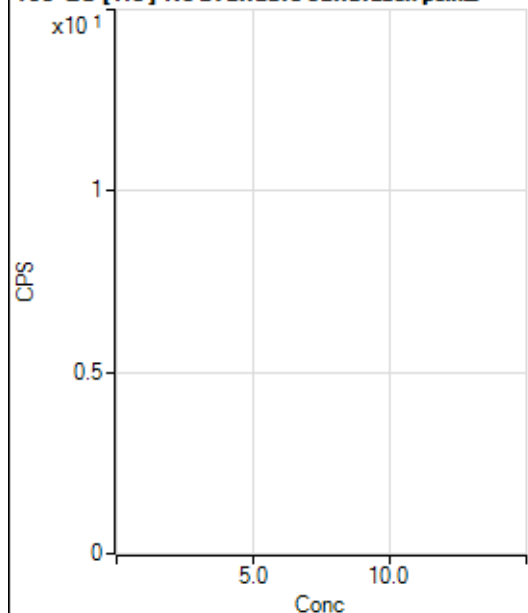
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			11.11		P	69.3
2	☐			5.56		P	91.6
3	☐			40.00		P	30.0
4	☐			41.11		P	9.4
5	☐			95.56		P	14.1
6	☐			177.78		P	4.7
7	☐			350.01		P	9.2
8	☐			1087.84		P	4.8

156 Dy [He] No available calibration points

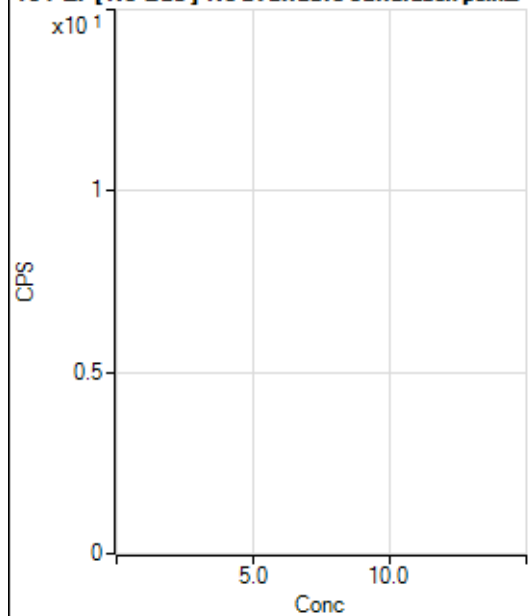
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.
2	☐			2.22		P	86.6
3	☐			11.11		P	45.8
4	☐			27.78		P	66.1
5	☐			40.00		P	22.0
6	☐			85.56		P	31.5
7	☐			174.45		P	4.8
8	☐			410.01		P	7.2

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

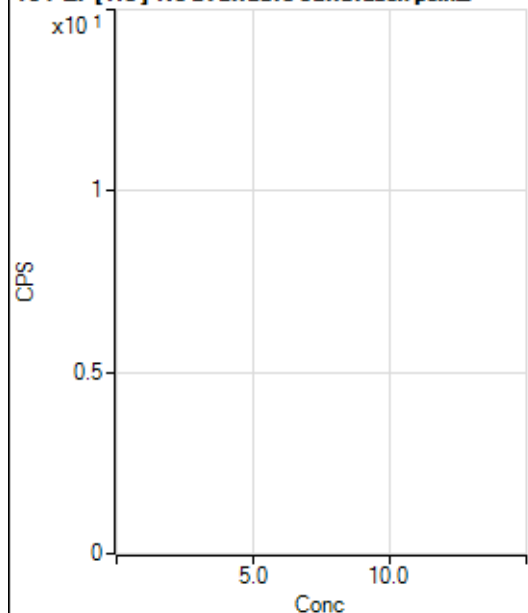
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			31.11		P	55.0
2	☐			37.78		P	27.0
3	☐			58.89		P	17.3
4	☐			78.89		P	17.6
5	☐			91.11		P	4.2
6	☐			161.12		P	14.5
7	☐			332.23		P	16.2
8	☐			1134.51		P	7.1

160 Gd [He] No available calibration points

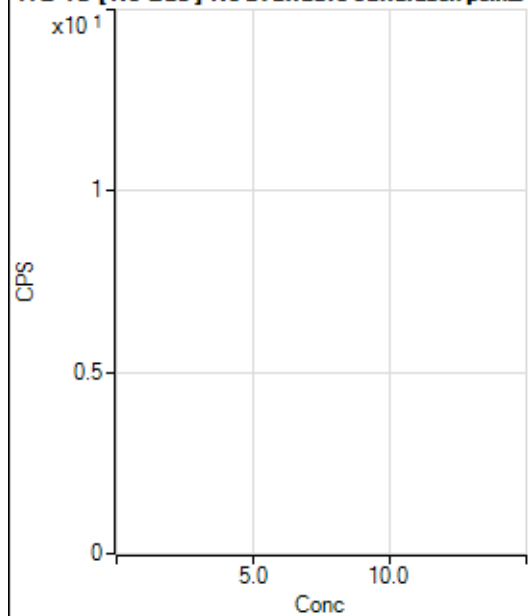
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			118.89		P	27.2
2	☐			95.56		P	8.8
3	☐			94.44		P	2.0
4	☐			96.67		P	17.2
5	☐			102.22		P	6.8
6	☐			153.34		P	11.5
7	☐			205.56		P	17.3
8	☐			617.80		P	5.2

164 Er [No Gas] No available calibration points

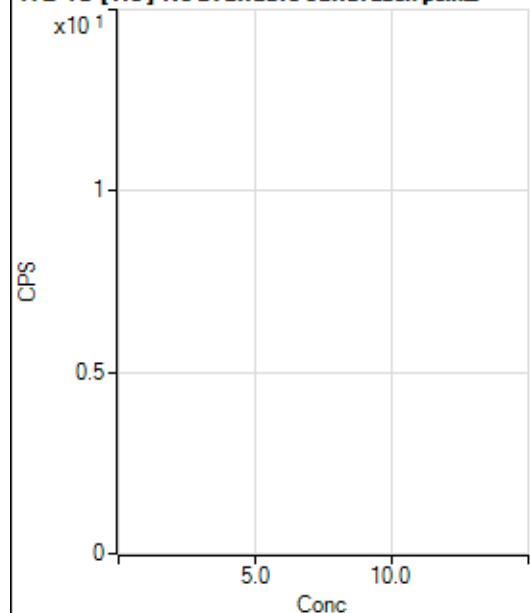
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			40.00		P	22.0
2	☐			50.00		P	17.6
3	☐			63.33		P	5.3
4	☐			80.00		P	8.3
5	☐			98.89		P	5.1
6	☐			106.67		P	24.8
7	☐			207.78		P	15.6
8	☐			215.56		P	2.4

164 Er [He] No available calibration points

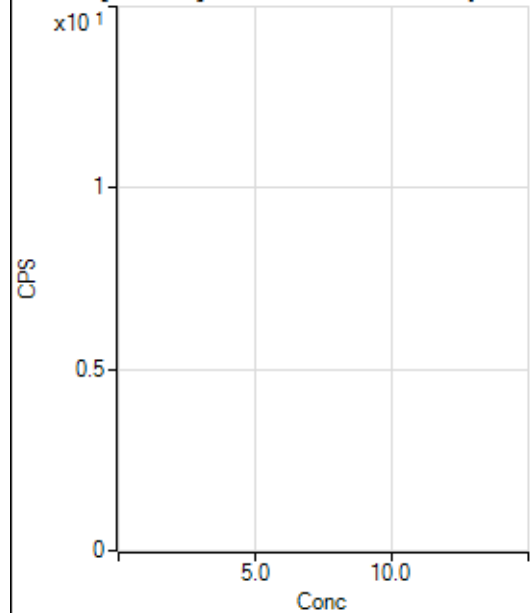
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			18.89		P	51.0
2	☐			22.22		P	17.3
3	☐			16.67		P	60.0
4	☐			31.11		P	37.6
5	☐			33.33		P	20.0
6	☐			26.67		P	0.0
7	☐			71.11		P	23.1
8	☐			55.56		P	22.7

172 Yb [No Gas] No available calibration points

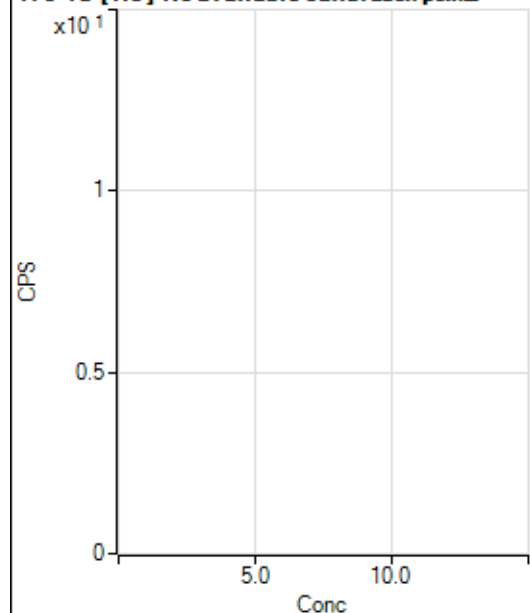
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			37.78		P	22.2
2	☐			56.66		P	27.0
3	☐			46.67		P	25.8
4	☐			74.45		P	9.3
5	☐			75.55		P	14.2
6	☐			110.00		P	6.1
7	☐			172.22		P	14.0
8	☐			166.67		P	18.3

172 Yb [He] No available calibration points

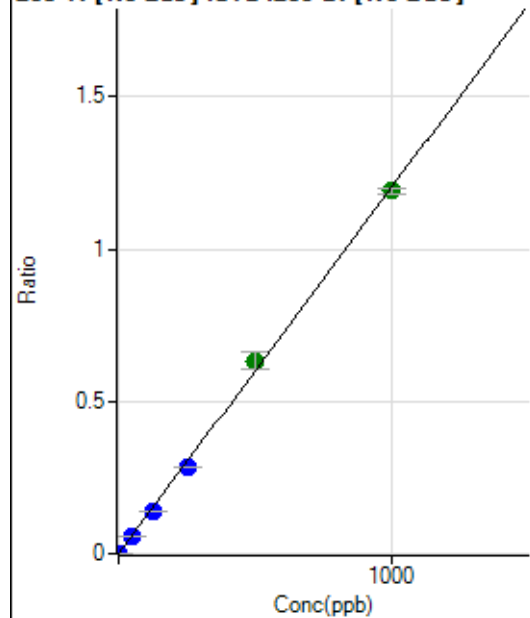
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			23.34		P	65.5
2	☐			14.44		P	35.3
3	☐			25.56		P	39.8
4	☐			24.45		P	28.4
5	☐			26.67		P	45.1
6	☐			56.67		P	11.8
7	☐			64.44		P	18.2
8	☐			64.44		P	15.8

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			743.37		P	7.0
2	☐			760.03		P	2.4
3	☐			1984.61		P	3.4
4	☐			3715.01		P	5.0
5	☐			6778.47		P	2.4
6	☐			12721.80		P	1.5
7	☐			24498.39		P	0.4
8	☐			698.92		P	4.0

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			7804.62		P	2.5
2	☐			8028.08		P	3.6
3	☐			8113.66		P	2.2
4	☐			8545.05		P	1.4
5	☐			8997.58		P	2.2
6	☐			10775.59		P	0.9
7	☐			15158.82		P	0.8
8	☐			7093.08		P	3.0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	77.78	0.0000	P	8.2
2	☐	1.000	0.870	5654.63	0.0011	P	2.3
3	☐	50.000	46.143	295208.34	0.0555	P	0.7
4	☐	125.000	116.181	728201.23	0.1397	P	1.0
5	☐	250.000	236.400	1422444.47	0.2842	P	0.3
6	☐	500.000	527.293	2986533.39	0.6340	A	8.5
7	☐	1000.000	991.049	5864163.25	1.1916	A	1.5
8	☐			2322.46	0.0005	P	12.8

$$y = 0.0012 * x + 1.4777E-005$$

$$R = 0.9993$$

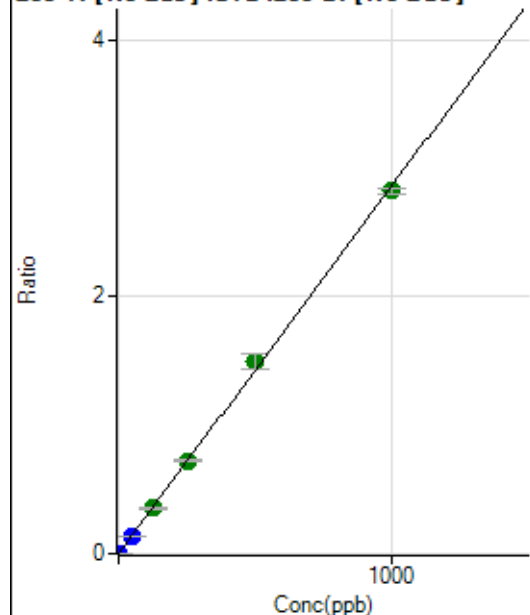
$$DL = 0.003036$$

$$BEC = 0.01229$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	165.56	0.0000	P	29.9
2	☐	1.000	0.871	13458.21	0.0025	P	1.9
3	☐	50.000	46.692	710533.54	0.1336	P	1.8
4	☐	125.000	123.395	1839824.89	0.3530	A	1.4
5	☐	250.000	253.411	3627176.26	0.7248	A	0.9
6	☐	500.000	523.833	7060085.80	1.4983	A	7.9
7	☐	1000.000	987.597	13901153.54	2.8248	A	1.5
8	☐			5621.33	0.0013	P	15.4

$$y = 0.0029 * x + 3.1583E-005$$

$$R = 0.9995$$

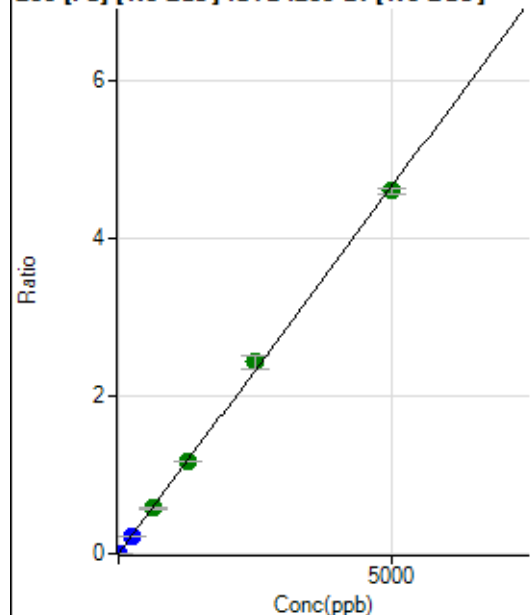
$$DL = 0.009921$$

$$BEC = 0.01104$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	158.89	0.0000	P	29.2
2	☐	1.000	0.946	4863.18	0.0009	P	3.5
3	☐	250.000	230.843	1145006.39	0.2153	P	1.4
4	☐	625.000	620.899	3017511.14	0.5789	A	2.3
5	☐	1250.000	1259.061	5874354.85	1.1739	A	1.1
6	☐	2500.000	2614.434	11490242.74	2.4376	A	7.2
7	☐	5000.000	4941.988	22675518.55	4.6077	A	1.6
8	☐			12410.55	0.0028	P	9.9

$$y = 9.3236E-004 * x + 3.0235E-005$$

$$R = 0.9996$$

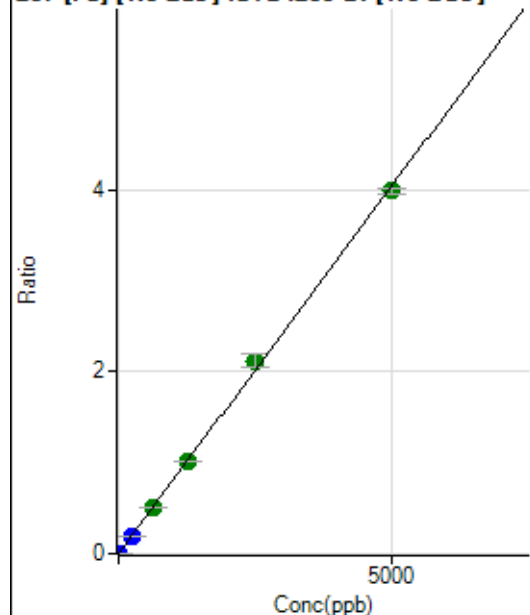
$$DL = 0.02841$$

$$BEC = 0.03243$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	121.12	0.0000	P	3.4
2	☐	1.000	0.946	4196.27	0.0008	P	1.7
3	☐	250.000	232.817	1000225.96	0.1880	P	1.0
4	☐	625.000	627.178	2640140.15	0.5065	A	0.8
5	☐	1250.000	1255.480	5073334.27	1.0139	A	1.8
6	☐	2500.000	2621.946	9980499.57	2.1173	A	7.2
7	☐	5000.000	4938.244	19624971.79	3.9878	A	1.8
8	☐			10369.91	0.0024	P	11.2

$$y = 8.0753\text{E-}004 * x + 2.3021\text{E-}005$$

$$R = 0.9995$$

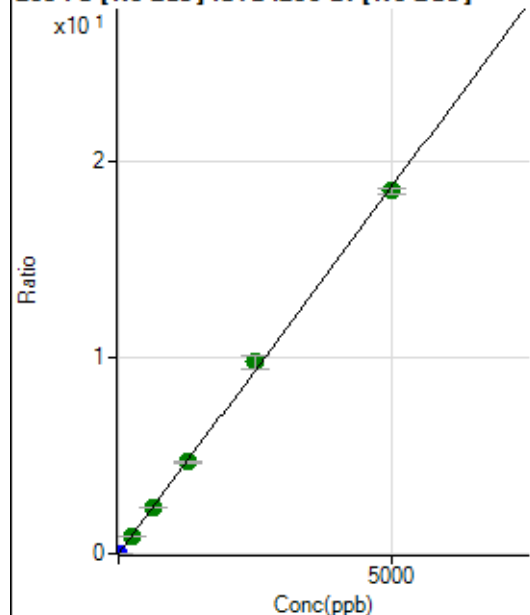
$$DL = 0.002885$$

$$BEC = 0.02851$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	606.68	0.0001	P	9.3
2	☐	1.000	0.927	19129.00	0.0036	P	2.0
3	☐	250.000	238.733	4756115.78	0.8941	A	0.9
4	☐	625.000	618.915	12081592.16	2.3177	A	0.9
5	☐	1250.000	1245.567	23340673.37	4.6643	A	1.1
6	☐	2500.000	2613.620	46127210.84	9.7872	A	7.5
7	☐	5000.000	4945.622	91140109.06	18.5198	A	1.6
8	☐			48745.84	0.0111	P	9.1

$$y = 0.0037 * x + 1.1532\text{E-}004$$

$$R = 0.9996$$

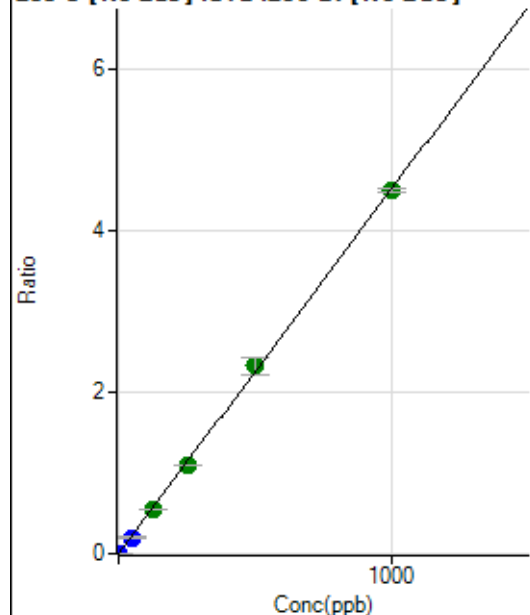
$$DL = 0.008578$$

$$BEC = 0.03079$$

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	42.22	0.0000	P	19.9
2	☐	1.000	0.810	19557.32	0.0037	P	0.7
3	☐	50.000	44.806	1076755.03	0.2024	P	1.9
4	☐	125.000	121.265	2856241.55	0.5479	A	1.6
5	☐	250.000	242.608	5484861.17	1.0961	A	1.3
6	☐	500.000	515.247	10961662.27	2.3279	A	9.2
7	☐	1000.000	994.951	22121036.33	4.4951	A	1.1
8	☐			6127.16	0.0014	P	16.2

$$y = 0.0045 * x + 8.0445E-006$$

$$R = 0.9998$$

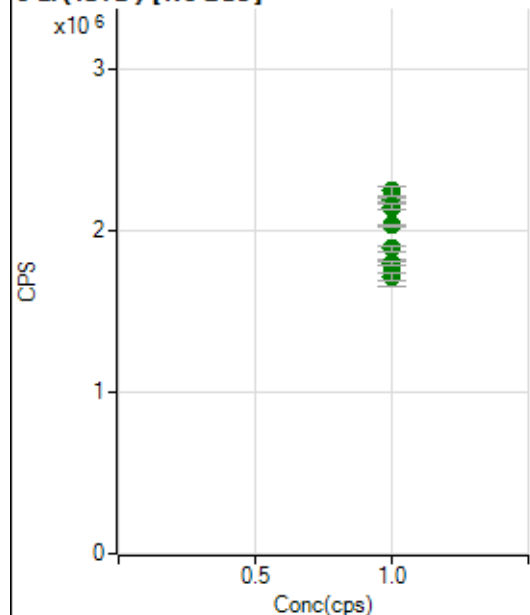
$$DL = 0.001062$$

$$BEC = 0.001781$$

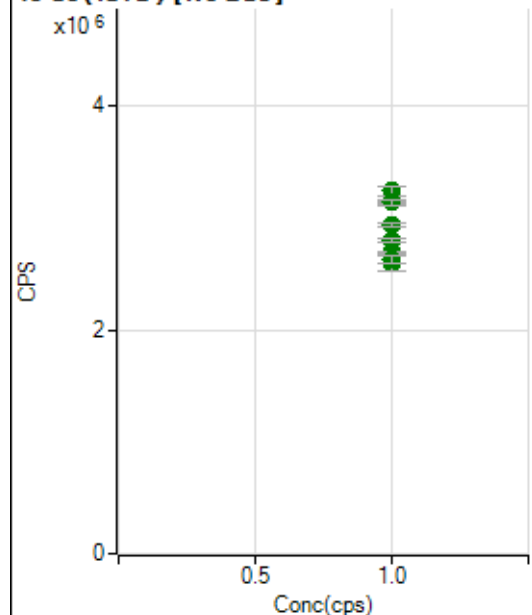
Weight: <None>

Min Conc: 0

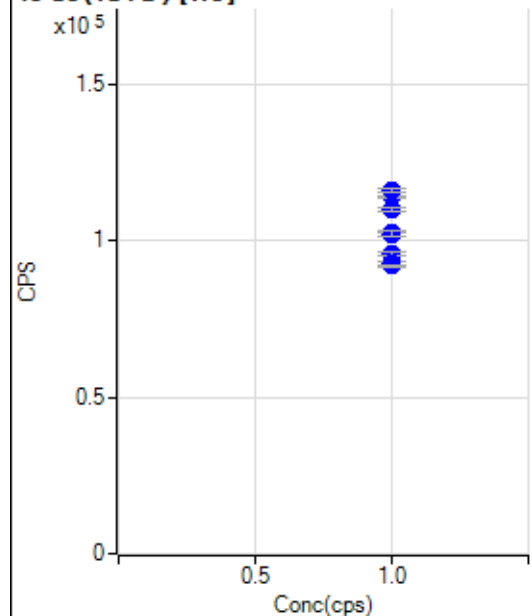
6 Li (ISTD) [No Gas]



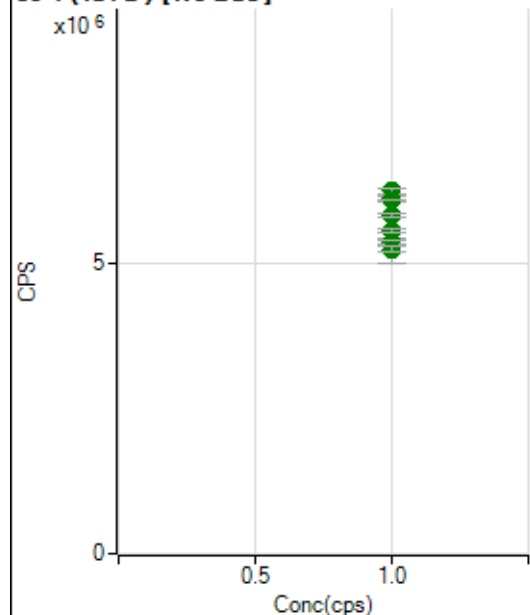
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2192016.65		A	0.9
2	☐	1.000		2247387.05		A	2.7
3	☐	1.000		2147970.07		A	1.3
4	☐	1.000		2031671.85		A	0.3
5	☐	1.000		1890253.36		A	1.6
6	☐	1.000		1741694.87		A	9.5
7	☐	1.000		1798355.47		A	1.3
8	☐	1.000		1714529.63		A	2.2

45 Sc (ISTD) [No Gas]

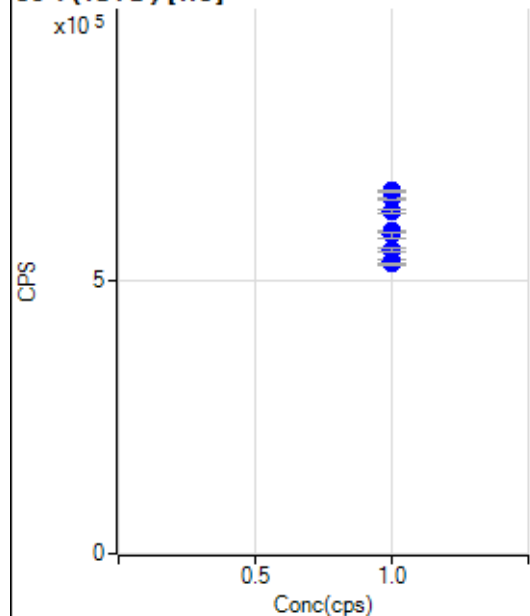
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3143082.83		A	0.7
2	☐	1.000		3245447.31		A	2.5
3	☐	1.000		3140912.14		A	1.3
4	☐	1.000		2935897.77		A	1.3
5	☐	1.000		2804588.99		A	1.4
6	☐	1.000		2601544.15		A	5.5
7	☐	1.000		2692741.75		A	0.7
8	☐	1.000		2626806.61		A	2.5

45 Sc (ISTD) [He]

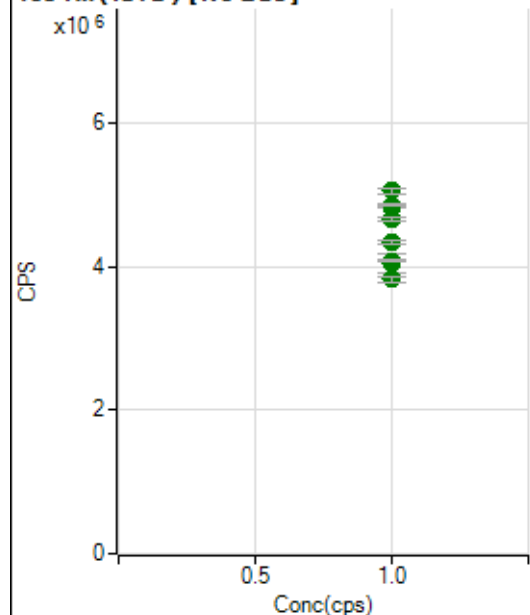
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		113917.97		P	0.3
2	☐	1.000		115837.75		P	1.2
3	☐	1.000		109786.52		P	1.4
4	☐	1.000		102639.80		P	0.1
5	☐	1.000		95905.16		P	1.0
6	☐	1.000		92617.03		P	1.5
7	☐	1.000		91948.53		P	0.7
8	☐	1.000		102027.95		P	1.8

89 Y (ISTD) [No Gas]

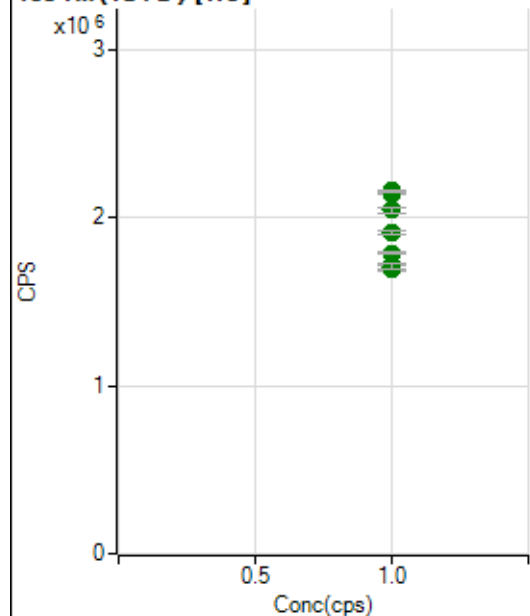
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6127544.15		A	1.4
2	☐	1.000		6261488.59		A	1.4
3	☐	1.000		6105817.76		A	0.2
4	☐	1.000		5843339.84		A	1.4
5	☐	1.000		5571629.50		A	1.6
6	☐	1.000		5231417.45		A	8.2
7	☐	1.000		5374561.52		A	1.1
8	☐	1.000		5250474.12		A	2.1

89 Y (ISTD) [He]

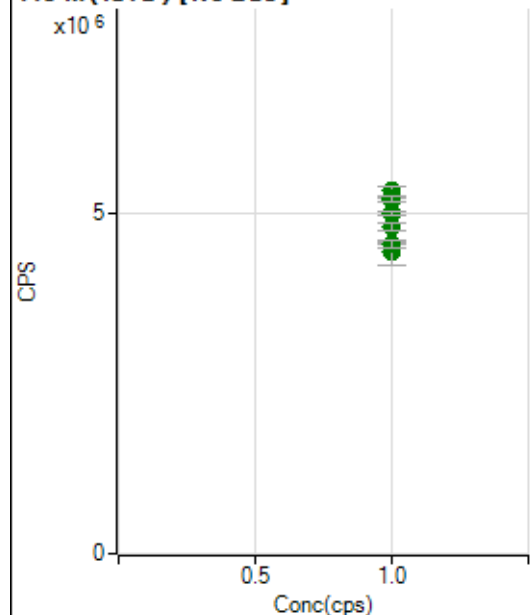
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		648708.38		P	0.5
2	☐	1.000		662900.46		P	0.6
3	☐	1.000		626374.86		P	1.0
4	☐	1.000		590035.44		P	0.6
5	☐	1.000		553568.39		P	1.3
6	☐	1.000		534285.37		P	1.1
7	☐	1.000		530224.20		P	0.6
8	☐	1.000		581608.76		P	1.4

103 Rh (ISTD) [No Gas]

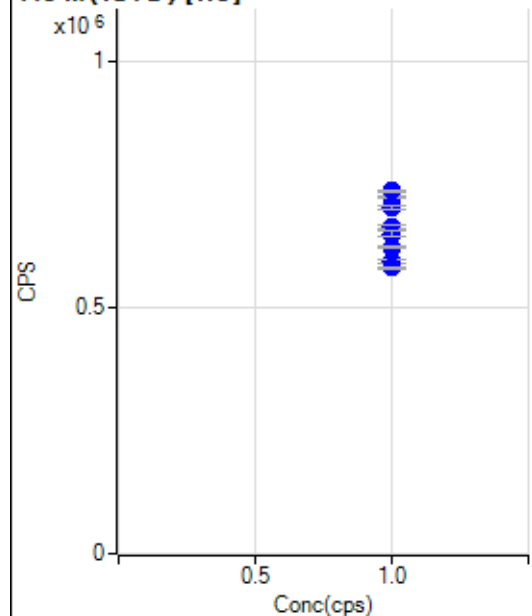
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4828632.12		A	0.7
2	☐	1.000		5051460.58		A	1.6
3	☐	1.000		4852742.67		A	0.4
4	☐	1.000		4664058.26		A	0.8
5	☐	1.000		4337662.23		A	0.7
6	☐	1.000		4046244.31		A	6.2
7	☐	1.000		4080040.77		A	0.6
8	☐	1.000		3816945.05		A	2.6

103 Rh (ISTD) [He]

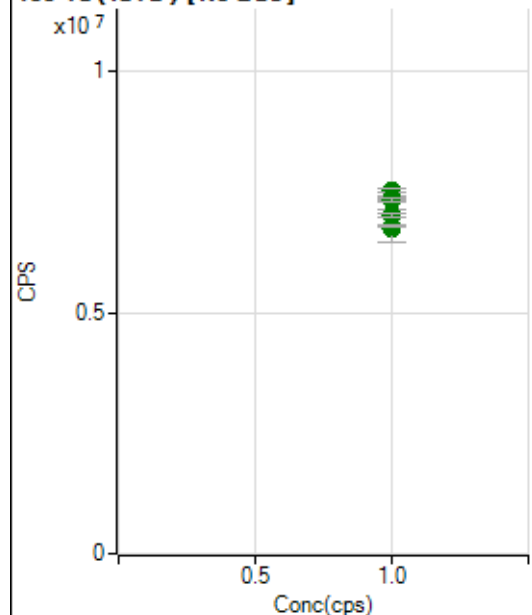
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2140699.66		A	0.7
2	☐	1.000		2156472.70		A	0.8
3	☐	1.000		2042809.47		A	1.9
4	☐	1.000		1909158.95		A	1.3
5	☐	1.000		1787845.41		A	1.0
6	☐	1.000		1718604.99		A	1.1
7	☐	1.000		1695626.64		A	2.0
8	☐	1.000		1708525.01		A	1.7

115 In (ISTD) [No Gas]

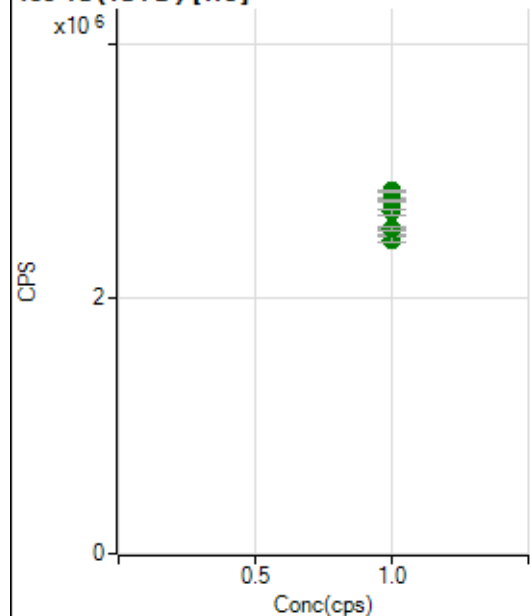
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5195000.38		A	0.9
2	☐	1.000		5334513.42		A	2.5
3	☐	1.000		5222908.72		A	1.9
4	☐	1.000		5003254.51		A	1.0
5	☐	1.000		4802248.67		A	2.0
6	☐	1.000		4432342.14		A	8.4
7	☐	1.000		4553826.39		A	0.6
8	☐	1.000		4557649.68		A	2.3

115 In (ISTD) [He]

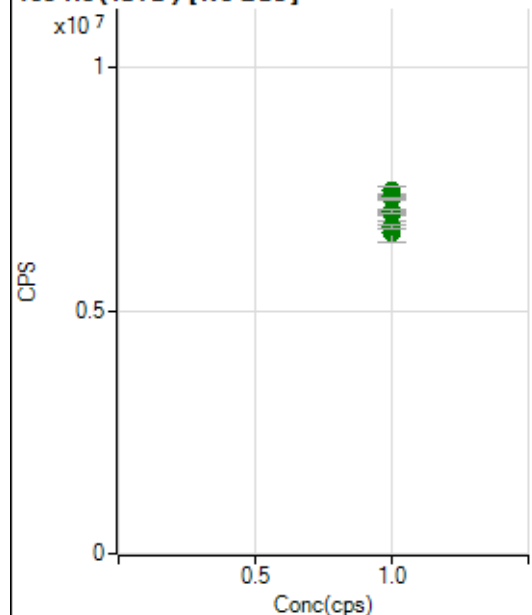
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		724821.60		P	0.4
2	☐	1.000		737906.78		P	0.2
3	☐	1.000		705336.84		P	1.0
4	☐	1.000		663985.42		P	1.2
5	☐	1.000		623208.40		P	0.9
6	☐	1.000		594939.12		P	1.2
7	☐	1.000		581103.67		P	0.5
8	☐	1.000		650012.15		P	1.8

159 Tb (ISTD) [No Gas]

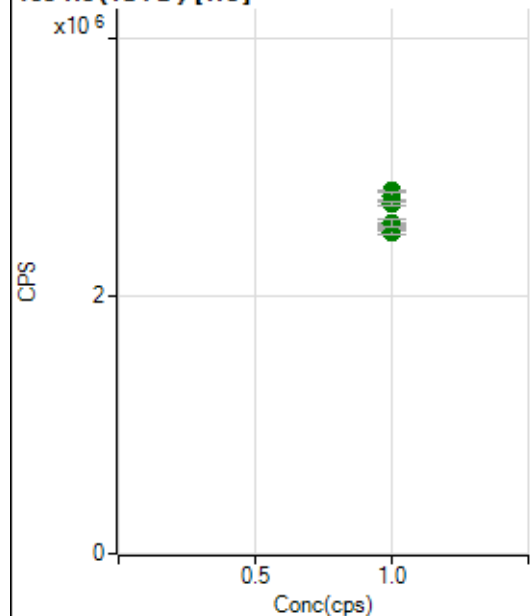
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7335181.21		A	1.0
2	☐	1.000		7529917.67		A	1.0
3	☐	1.000		7384851.97		A	0.6
4	☐	1.000		7347741.00		A	0.8
5	☐	1.000		7059640.24		A	2.7
6	☐	1.000		6725755.04		A	7.2
7	☐	1.000		7027098.37		A	0.9
8	☐	1.000		6794060.11		A	0.8

159 Tb (ISTD) [He]

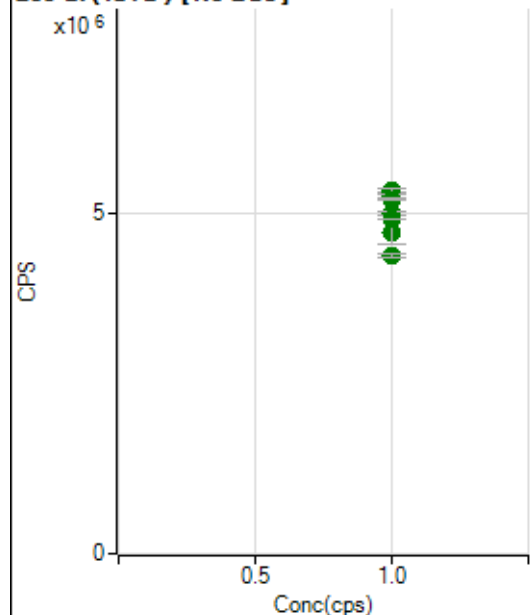
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2778380.24		A	0.9
2	☐	1.000		2844500.79		A	0.4
3	☐	1.000		2763750.96		A	0.6
4	☐	1.000		2679625.08		A	1.7
5	☐	1.000		2536845.36		A	0.6
6	☐	1.000		2496549.39		A	0.2
7	☐	1.000		2462163.02		A	1.9
8	☐	1.000		2548004.25		A	0.9

165 Ho (ISTD) [No Gas]

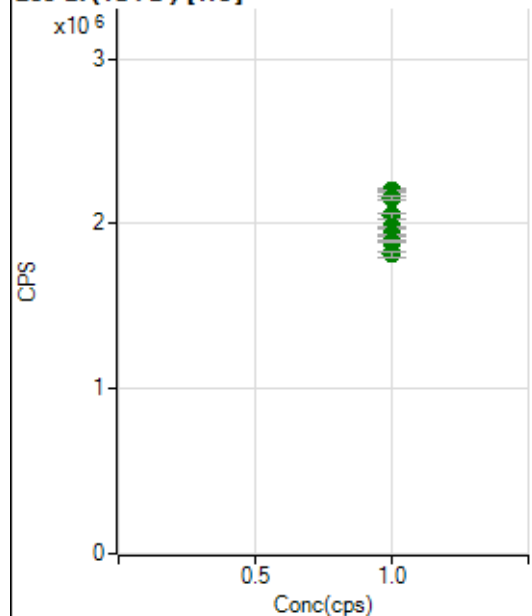
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7358268.02		A	1.3
2	☐	1.000		7468378.78		A	2.4
3	☐	1.000		7372605.65		A	1.0
4	☐	1.000		7318921.63		A	0.6
5	☐	1.000		7009110.31		A	1.3
6	☐	1.000		6623116.36		A	6.9
7	☐	1.000		7039016.42		A	1.1
8	☐	1.000		6738326.91		A	1.1

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2820442.22		A	0.0
2	☐	1.000		2817893.15		A	0.8
3	☐	1.000		2781146.94		A	2.3
4	☐	1.000		2722425.76		A	1.1
5	☐	1.000		2560154.32		A	0.9
6	☐	1.000		2530277.90		A	1.7
7	☐	1.000		2500901.91		A	2.1
8	☐	1.000		2571572.22		A	1.8

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5261949.82		A	2.0
2	☐	1.000		5333808.88		A	1.0
3	☐	1.000		5320036.41		A	1.6
4	☐	1.000		5212834.23		A	0.8
5	☐	1.000		5004436.63		A	1.2
6	☐	1.000		4731215.97		A	7.7
7	☐	1.000		4921137.49		A	0.5
8	☐	1.000		4377210.98		A	1.0

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2191379.66		A	2.1
2	☐	1.000		2198154.99		A	0.8
3	☐	1.000		2155948.11		A	1.1
4	☐	1.000		2045646.39		A	1.8
5	☐	1.000		1977792.45		A	0.5
6	☐	1.000		1931030.04		A	0.4
7	☐	1.000		1888734.21		A	0.5
8	☐	1.000		1815255.13		A	1.9

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP8031624MS.b

Acq. Date-Time 2024-03-16 15:16:00

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		7057	70574.20			0.690	5.000
24		59836	598360.78			0.653	5.000
25		8072	80721.00			0.708	5.000
26		9439	94385.69			0.711	5.000
59		44568	445680.65			0.830	5.000
113		5813	58131.56			0.777	5.000
115		72889	728890.51			1.380	5.000
206		22187	221867.35			1.408	5.000
207		20161	201609.55			1.189	5.000
208		48157	481568.98			0.902	5.000
220		0	1.00			70.711	

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

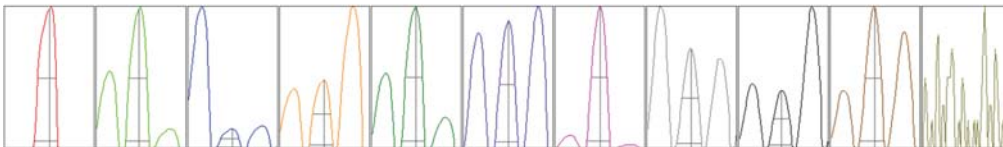
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	7111	7104	7007	7015	7050
24	60416	60054	59597	59475	59638
25	8166	8083	8019	8045	8048
26	9521	9496	9403	9363	9410
59	44807	45011	44301	44099	44623
113	5866	5854	5770	5770	5805
115	74175	73699	72337	71772	72461
206	22010	22545	22017	21863	22499
207	20190	20362	19916	19915	20422
208	48097	48602	47862	47631	48592

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	12157.52	9.05	8.90 - 9.10	
24	104344.92	23.95	23.90 - 24.10	
25	14255.89	25.00	24.90 - 25.10	
26	16363.61	26.00	25.90 - 26.10	
59	82176.58	59.00	58.90 - 59.10	
113	11462.21	113.05	112.90 - 113.10	
115	143431.54	115.05	114.90 - 115.10	
206	41877.33	206.00	205.90 - 206.10	
207	37815.91	206.95	206.90 - 207.10	
208	91427.84	208.00	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.61	0.777	0.900	
24	0.61	0.785	0.900	
25	0.60	0.790	0.900	
26	0.60	0.784	0.900	
59	0.57	0.771	0.900	
113	0.52	0.769	0.900	
115	0.52	0.769	0.900	
206	0.54	0.830	0.900	
207	0.54	0.782	0.900	
208	0.53	0.813	0.900	
220				

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode ---

Nebulizer Gas 0.85 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	-6.0 V	Omega Lens	9.5 V	Deflect	14.6 V
Extract 2	-195.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-115 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	160 V		

QP Parameters

Mass Gain	123	Axis Gain	0.9993	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	0.00		

Hardware Settings

Torch

Torch H	0.9 mm	Torch V	-0.8 mm
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EM

Discriminator	4.6 mV	Analog HV	2314 V	Pulse HV	1694 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		9992	99923.86			0.869	
89		8070	80695.34			0.765	
205		13081	130810.36			0.550	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	10042	9980	10114	9905	9921
89	8155	8084	8067	8060	7982
205	13120	13126	13150	12986	13023

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.85 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	-6.0 V	Omega Lens	9.5 V	Deflect	2.4 V
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US EPA Tune Check Report

Extract 2	-195.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-115 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	123	Axis Gain	0.9993	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	0.00		
Hardware Settings					
Torch					
Torch H	0.9 mm	Torch V	-0.8 mm		
EM					
Discriminator	4.6 mV	Analog HV	2314 V	Pulse HV	1694 V