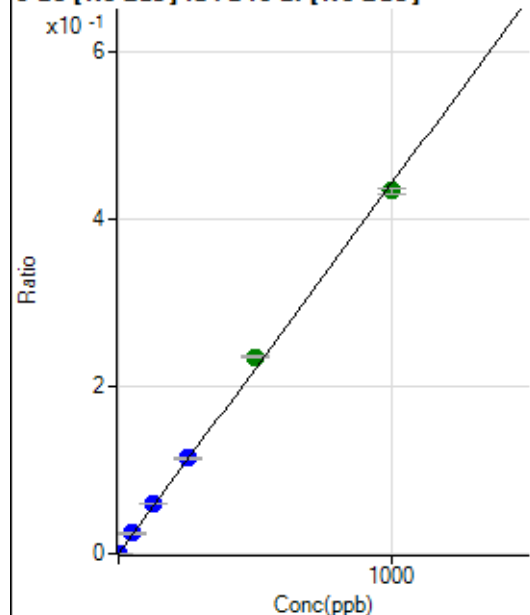


Calibration for 007CALS.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P8080922 MS.b\
 Analysis File: P8080922 MS.batch.bin
 DA Date-Time: 2022-08-19 13:13:18
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	006CALB.d	S00	2022-08-09 13:41:37
2	007CALS.d	S02	2022-08-09 13:44:44
3	008CALS.d	S03	2022-08-09 13:47:53
4	009CALS.d	S04	2022-08-09 13:50:59
5	010CALS.d	S05	2022-08-09 13:54:08
6	011CALS.d	S06	2022-08-09 13:57:14
7	012CALS.d	S07	2022-08-09 14:00:22
8	013CALS.d	S08	2022-08-09 14:03:29

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	33.75	0.0000	P	18.1
2	☐	1.000	1.107	3965.89	0.0005	P	4.3
3	☐	50.000	55.179	192894.66	0.0244	P	3.3
4	☐	125.000	132.745	476018.87	0.0588	P	0.3
5	☐	250.000	258.303	922533.64	0.1143	P	1.0
6	☐	500.000	532.488	1824727.06	0.2357	A	1.3
7	☐	1000.000	980.453	3358477.57	0.4339	A	1.6
8	☐			423.71	0.0001	P	3.1

$$y = 4.4259\text{E-}004 * x + 4.3375\text{E-}006$$

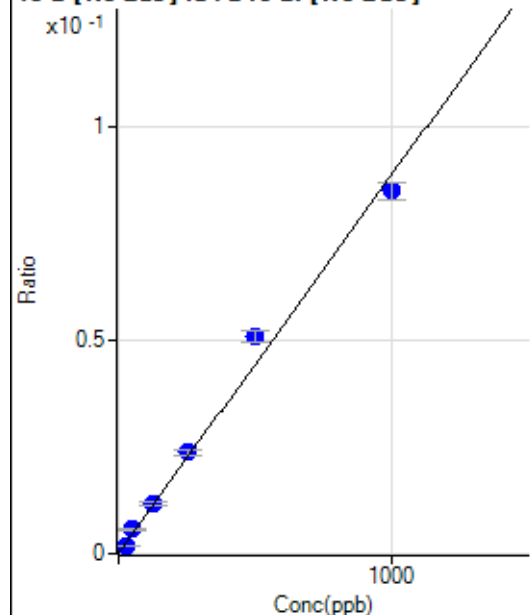
$$R = 0.9992$$

$$DL = 0.005313$$

$$BEC = 0.0098$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	956.51	0.0001	P	9.8
2	☐	25.000	17.539	13478.94	0.0017	P	8.0
3	☐	50.000	63.589	45477.11	0.0058	P	8.9
4	☐	125.000	130.609	94845.19	0.0117	P	5.1
5	☐	250.000	266.505	191752.94	0.0238	P	5.0
6	☐	500.000	572.584	394118.92	0.0509	P	5.5
7	☐	1000.000	958.388	658372.42	0.0851	P	5.1
8	☐			60688.04	0.0084	P	8.9

$$y = 8.8688\text{E-}005 * x + 1.2201\text{E-}004$$

$$R = 0.9956$$

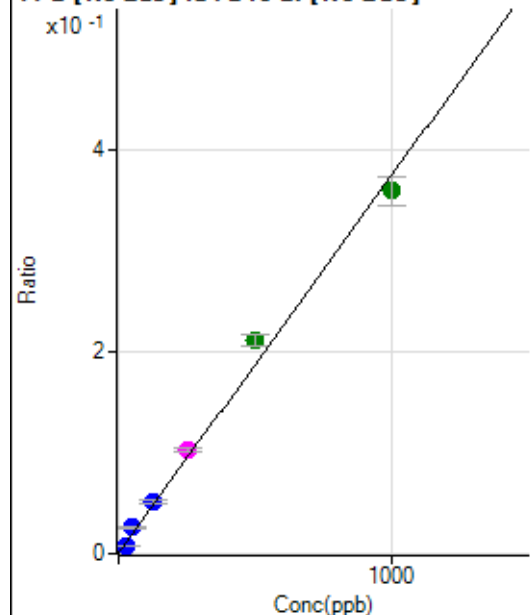
$$DL = 0.4064$$

$$BEC = 1.376$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4256.45	0.0005	P	11.8
2	☐	25.000	18.584	60047.33	0.0075	P	7.4
3	☐	50.000	67.494	203150.73	0.0257	P	7.8
4	☐	125.000	136.165	416103.26	0.0514	P	4.1
5	☐	250.000	273.674	828447.83	0.1027	M	4.2
6	☐	500.000	565.059	1636695.24	0.2114	A	5.6
7	☐	1000.000	959.442	2771576.55	0.3586	A	8.1
8	☐			276657.12	0.0383	P	8.3

$$y = 3.7316\text{E-}004 * x + 5.4481\text{E-}004$$

$$R = 0.9962$$

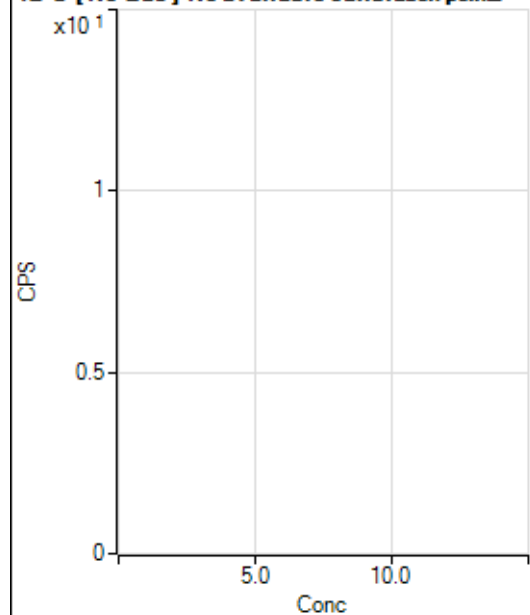
$$DL = 0.5157$$

$$BEC = 1.46$$

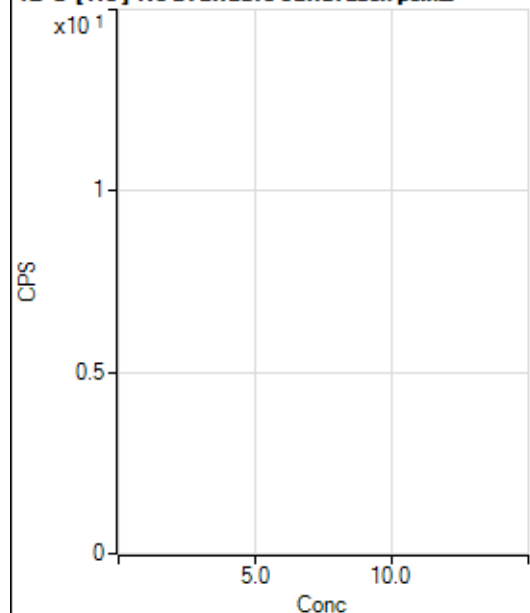
Weight: <None>

Min Conc: 0

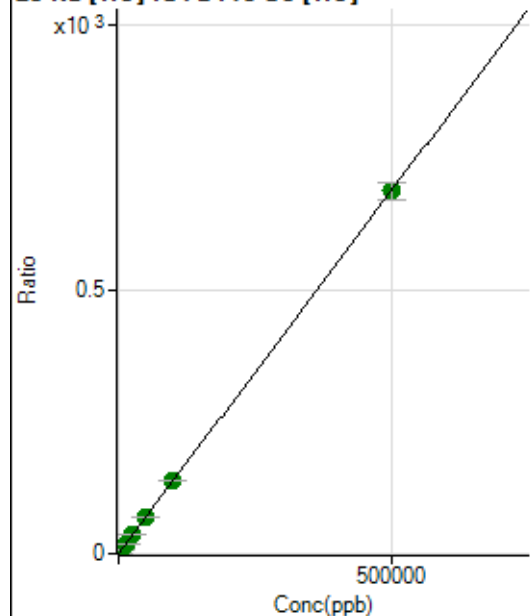
12 C [No Gas] No available calibration points



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			5647111.76		A	1.5
2	☐			5608671.87		A	0.9
3	☐			6363795.98		A	1.4
4	☐			6537717.64		A	2.2
5	☐			6863107.84		A	3.0
6	☐			7903142.97		A	3.1
7	☐			9352704.03		A	4.4
8	☐			7677405.98		A	1.8

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			63261.62		P	2.1
2	☐			63325.95		P	1.1
3	☐			75840.27		P	1.0
4	☐			76334.56		P	1.3
5	☐			81841.76		P	1.1
6	☐			97677.26		P	1.8
7	☐			114413.24		P	1.3
8	☐			93971.79		P	0.4

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	32077.48	0.0945	P	3.7
2	☐	500.000	490.194	260053.78	0.7682	P	1.8
3	☐	5000.000	5313.604	2505972.78	7.3974	A	2.3
4	☐	12500.000	13720.970	6047008.43	18.9523	A	2.5
5	☐	25000.000	26325.291	11785527.00	36.2753	A	3.5
6	☐	50000.000	50342.606	23024518.92	69.2841	A	2.1
7	☐	100000.00	101287.93	45458452.75	139.3021	A	1.1
8	☐	500000.00	499608.23	214922424.2	686.7433	A	4.4

$$y = 0.0014 * x + 0.0945$$

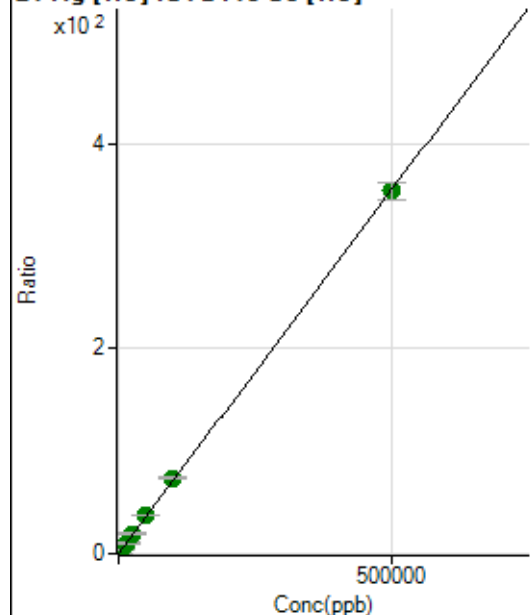
$$R = 1.0000$$

$$DL = 7.571$$

$$BEC = 68.76$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	372.24	0.0011	P	11.2
2	☐	500.000	521.169	125602.41	0.3711	P	3.2
3	☐	5000.000	5599.010	1346840.83	3.9758	A	2.3
4	☐	12500.000	14473.881	3278544.89	10.2759	A	2.8
5	☐	25000.000	27427.342	6326045.02	19.4714	A	3.6
6	☐	50000.000	52312.962	12342540.90	37.1373	A	1.0
7	☐	100000.00	103745.65	24031111.30	73.6487	A	2.5
8	☐	500000.00	498842.84	110825348.3	354.1228	A	4.5

$$y = 7.0989\text{E-}004 * x + 0.0011$$

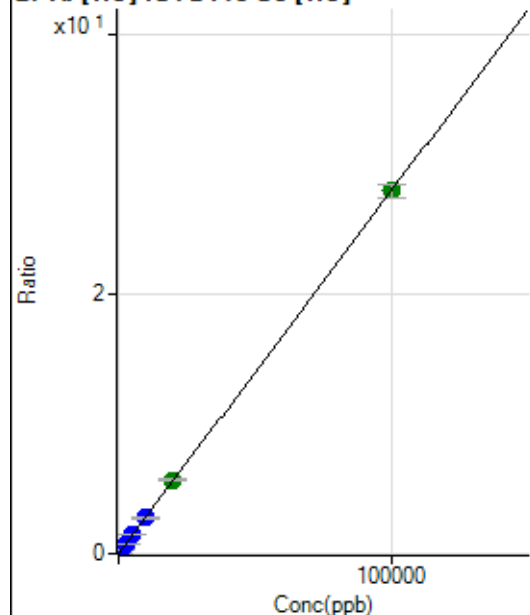
$$R = 1.0000$$

$$DL = 0.5177$$

$$BEC = 1.547$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	327.05	0.0010	P	10.1
2	☐	20.000	19.698	2186.98	0.0065	P	5.9
3	☐	1000.000	1022.912	97046.11	0.2865	P	1.2
4	☐	2500.000	2650.729	236467.48	0.7409	P	1.7
5	☐	5000.000	5111.002	463879.73	1.4277	P	2.4
6	☐	10000.000	9911.740	919779.86	2.7679	P	2.7
7	☐	20000.000	20277.628	1847721.62	5.6615	A	1.2
8	☐	100000.00	99943.753	8732530.74	27.9005	A	3.7

$$y = 2.7915\text{E-}004 * x + 9.6361\text{E-}004$$

$$R = 1.0000$$

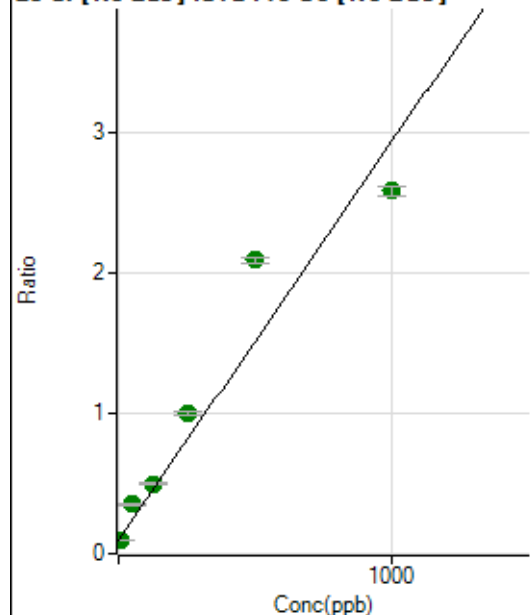
$$DL = 1.05$$

$$BEC = 3.452$$

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	861554.01	0.0948	M	8.0
2	☐	10.000	0.473	931939.49	0.0961	A	2.2
3	☐	50.000	90.560	3455760.88	0.3520	A	2.3
4	☐	125.000	141.179	4790670.24	0.4957	A	1.9
5	☐	250.000	318.974	9701329.12	1.0007	A	1.4
6	☐	500.000	703.005	19978734.30	2.0914	A	2.3
7	☐	1000.000	877.299	24171412.34	2.5865	A	2.7
8	☐			2209224.27	0.2423	A	2.7

$$y = 0.0028 * x + 0.0948$$

$$R = 0.9632$$

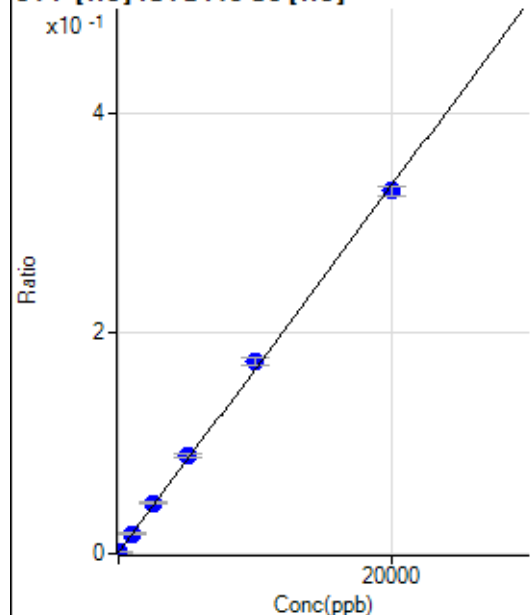
$$DL = 8.055$$

$$BEC = 33.36$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	-11.167	283.34	0.0008	P	30.7
2	☐	0.000	11.167	408.35	0.0012	P	19.9
3	☐	1000.000	1022.369	6109.79	0.0180	P	4.4
4	☐	2500.000	2700.320	14693.91	0.0460	P	3.0
5	☐	5000.000	5274.738	28873.93	0.0889	P	2.6
6	☐	10000.000	10387.730	57821.50	0.1740	P	3.9
7	☐	20000.000	19711.292	107444.98	0.3293	P	2.7
8	☐			347.24	0.0011	P	21.4

$$y = 1.6653E-005 * x + 0.0010$$

$$R = 0.9996$$

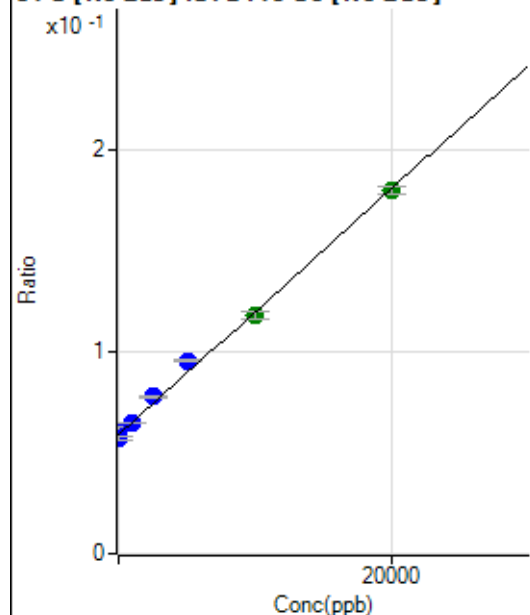
$$DL = 44.73$$

$$BEC = 61.29$$

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	278.696	550810.23	0.0606	P	8.2
2	☐	0.000	-278.696	554629.08	0.0572	P	2.3
3	☐	1000.000	984.652	637149.17	0.0649	P	0.9
4	☐	2500.000	3080.496	750417.06	0.0777	P	0.6
5	☐	5000.000	6033.382	927001.53	0.0956	P	1.9
6	☐	10000.000	9712.876	1127510.67	0.1180	A	2.6
7	☐	20000.000	19813.422	1678058.58	0.1795	A	2.1
8	☐			451618.14	0.0495	P	2.4

$$y = 6.0892E-006 * x + 0.0589$$

$$R = 0.9978$$

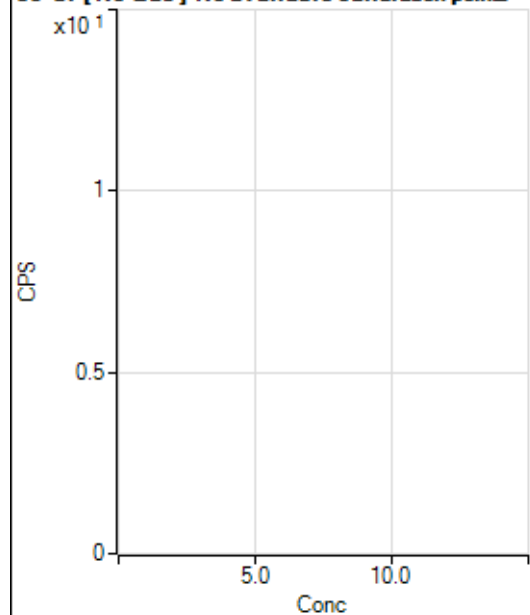
$$DL = 1551$$

$$BEC = 9672$$

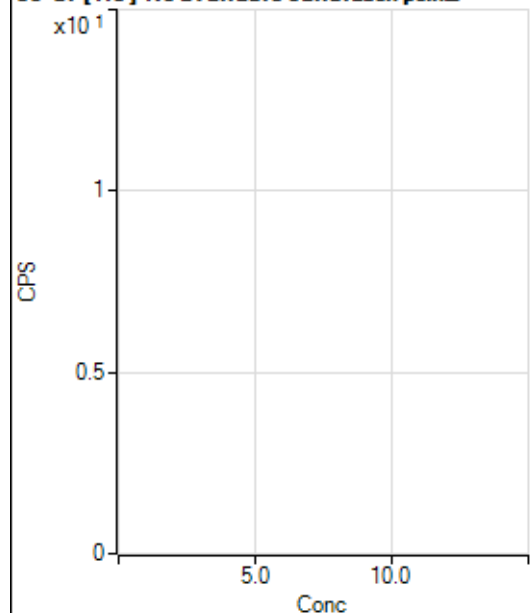
Weight: <None>

Min Conc: 0

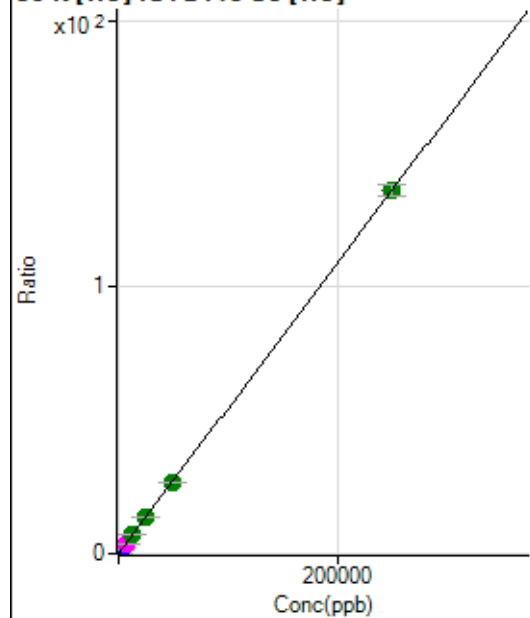
35 Cl [No Gas] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			443364.99		P	0.7
2	☐			427883.60		P	1.1
3	☐			463598.77		P	1.2
4	☐			444434.52		P	0.9
5	☐			432038.12		P	0.6
6	☐			410360.05		P	0.7
7	☐			414896.05		P	1.4
8	☐			387982.04		P	0.4

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3350.46		P	3.3
2	☐			3128.18		P	3.2
3	☐			3578.34		P	1.6
4	☐			3256.02		P	0.4
5	☐			3294.91		P	3.6
6	☐			3303.24		P	9.2
7	☐			3194.88		P	1.9
8	☐			2911.48		P	2.8

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	27267.95	0.0803	P	4.2
2	☐	500.000	476.071	114802.71	0.3391	P	0.3
3	☐	2500.000	2502.914	488002.96	1.4407	P	1.3
4	☐	6250.000	6507.834	1154941.10	3.6175	M	1.5
5	☐	12500.000	13058.995	2332183.11	7.1783	A	3.4
6	☐	25000.000	24831.277	4511657.09	13.5768	A	2.8
7	☐	50000.000	48795.998	8682883.01	26.6023	A	1.0
8	☐	250000.00	250223.29	42596467.27	136.0834	A	3.3

$$y = 5.4353\text{E-}004 * x + 0.0803$$

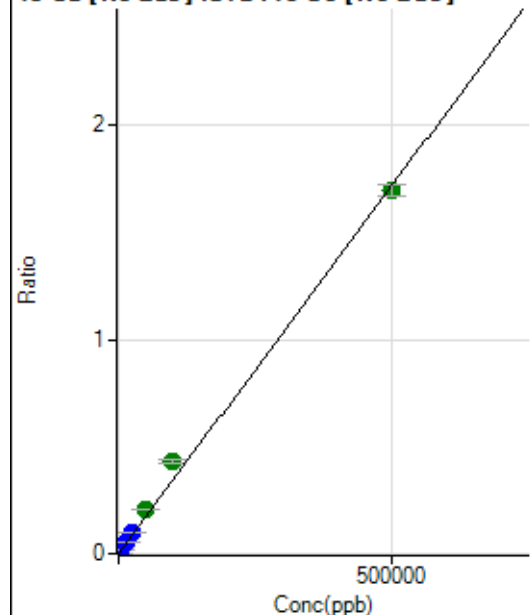
$$R = 1.0000$$

$$DL = 18.69$$

$$BEC = 147.8$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	612.44	0.0001	P	5.1
2	☐	500.000	495.664	17136.38	0.0018	P	2.0
3	☐	5000.000	6192.305	209180.78	0.0213	P	0.9
4	☐	12500.000	15247.967	505996.16	0.0524	P	1.6
5	☐	25000.000	29652.294	986399.83	0.1018	P	1.7
6	☐	50000.000	60951.401	1997670.28	0.2091	A	1.3
7	☐	100000.00	124983.19	4005778.19	0.4287	A	3.6
8	☐	500000.00	493594.98	15435435.91	1.6928	A	3.2

$$y = 3.4294\text{E-}006 * x + 6.7216\text{E-}005$$

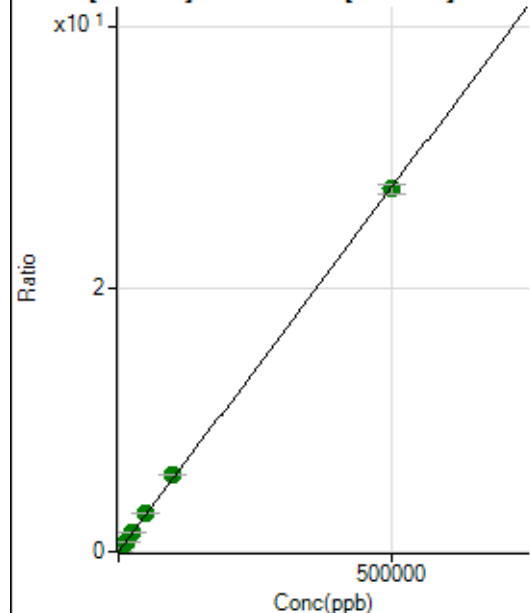
R = 0.9985

DL = 2.997

BEC = 19.6

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	21171.33	0.0023	P	7.5
2	☐	500.000	499.449	290739.18	0.0300	P	2.0
3	☐	5000.000	5591.255	3062821.25	0.3119	A	1.6
4	☐	12500.000	13706.617	7356299.49	0.7612	A	1.3
5	☐	25000.000	26185.850	14078079.41	1.4522	A	2.7
6	☐	50000.000	53112.695	28115358.02	2.9431	A	2.0
7	☐	100000.00	106356.65	55071078.59	5.8911	A	0.3
8	☐	500000.00	498322.03	251543247.9	27.5934	A	2.9

$$y = 5.5368\text{E-}005 * x + 0.0023$$

R = 0.9999

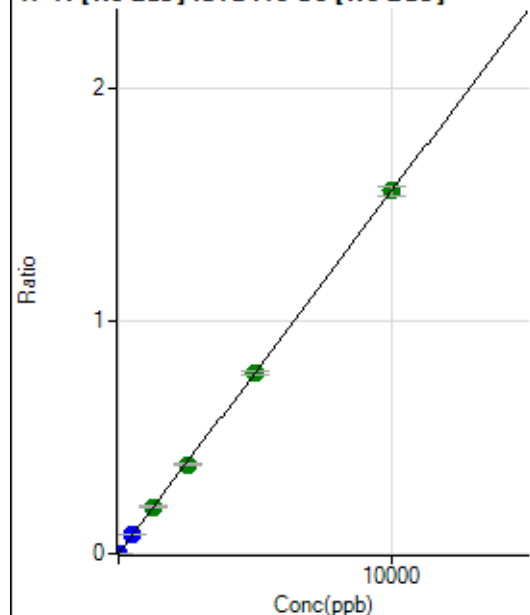
DL = 9.463

BEC = 42.04

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	388.91	0.0000	P	6.3
2	☐	5.000	5.076	8071.94	0.0008	P	3.6
3	☐	500.000	528.326	807876.36	0.0823	P	0.5
4	☐	1250.000	1295.766	1949528.17	0.2017	A	2.8
5	☐	2500.000	2462.082	3714769.79	0.3832	A	2.8
6	☐	5000.000	4989.100	7417546.43	0.7766	A	3.0
7	☐	10000.000	10007.792	14557030.19	1.5577	A	2.8
8	☐			1680.70	0.0002	P	4.4

$$y = 1.5564\text{E-}004 * x + 4.2490\text{E-}005$$

$$R = 1.0000$$

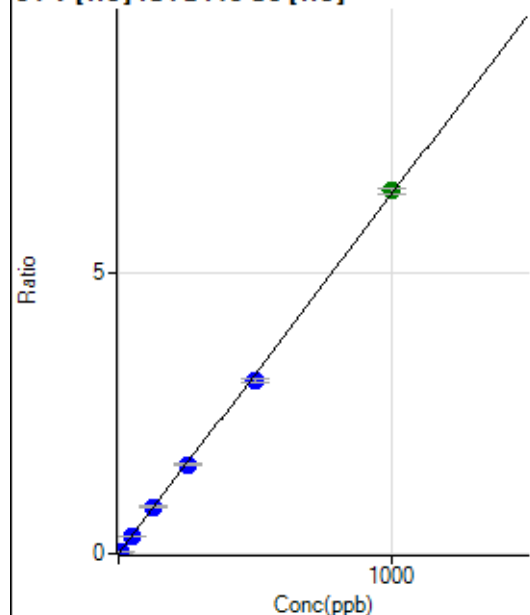
$$DL = 0.05187$$

$$BEC = 0.273$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	8.89	0.0000	P	57.7
2	☐	5.000	4.812	10435.01	0.0308	P	3.1
3	☐	50.000	49.514	107368.88	0.3170	P	2.0
4	☐	125.000	129.954	265468.86	0.8319	P	2.1
5	☐	250.000	248.447	516769.85	1.5905	P	1.8
6	☐	500.000	481.126	1023478.22	3.0799	P	2.8
7	☐	1000.000	1009.231	2108656.01	6.4606	A	1.6
8	☐			417.79	0.0013	P	9.7

$$y = 0.0064 * x + 2.6309\text{E-}005$$

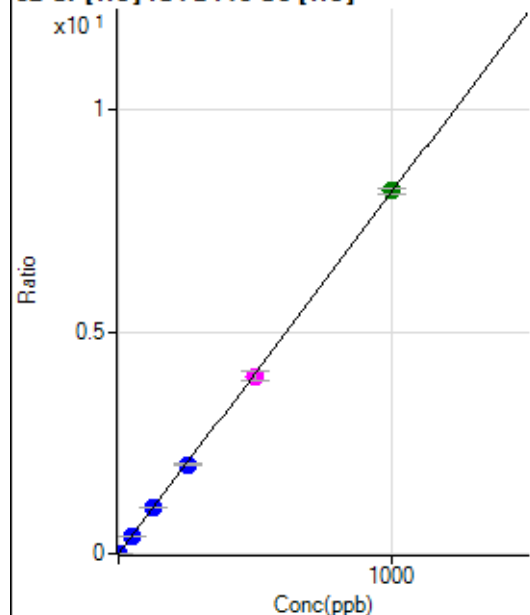
$$R = 0.9997$$

$$DL = 0.00711$$

$$BEC = 0.00411$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	800.03	0.0024	P	8.2
2	☐	2.000	1.815	5794.56	0.0171	P	1.3
3	☐	50.000	49.179	136298.39	0.4024	P	1.7
4	☐	125.000	127.978	332849.96	1.0433	P	3.0
5	☐	250.000	247.218	654117.95	2.0133	P	2.7
6	☐	500.000	491.972	1330386.75	4.0041	M	5.2
7	☐	1000.000	1004.379	2666644.30	8.1721	A	1.7
8	☐			5911.28	0.0189	P	4.4

$$y = 0.0081 * x + 0.0024$$

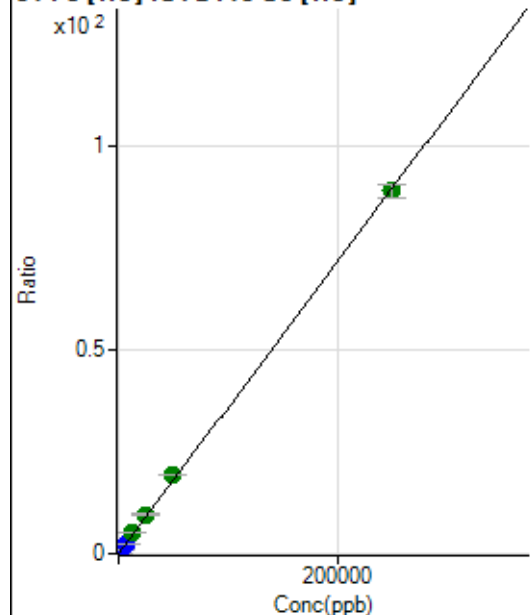
$$R = 0.9999$$

$$DL = 0.07144$$

$$BEC = 0.2895$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1253.79	0.0037	P	3.1
2	☐	50.000	49.448	7227.87	0.0214	P	5.7
3	☐	2500.000	2710.986	329229.22	0.9720	P	1.5
4	☐	6250.000	6997.183	798470.81	2.5031	P	3.4
5	☐	12500.000	14453.755	1678784.21	5.1665	A	1.2
6	☐	25000.000	26955.432	3200664.39	9.6321	A	3.4
7	☐	50000.000	53818.802	6274735.27	19.2275	A	0.9
8	☐	250000.00	248922.21	27829632.80	88.9176	A	3.9

$$y = 3.5720E-004 * x + 0.0037$$

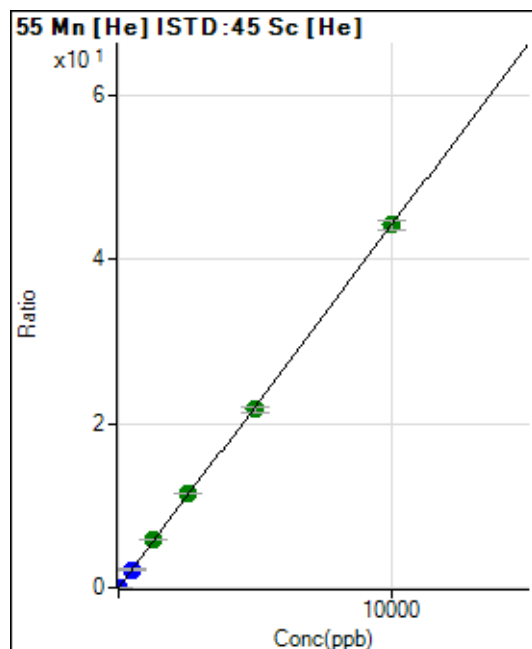
$$R = 0.9999$$

$$DL = 0.9652$$

$$BEC = 10.33$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	84.44	0.0002	P	22.0
2	☐	1.000	1.033	1631.22	0.0048	P	4.5
3	☐	500.000	503.199	753872.51	2.2257	P	1.4
4	☐	1250.000	1341.084	1893247.63	5.9313	A	1.4
5	☐	2500.000	2599.531	3735790.36	11.4969	A	1.4
6	☐	5000.000	4915.013	7223429.61	21.7372	A	2.7
7	☐	10000.000	10006.065	14439033.67	44.2528	A	2.4
8	☐			7128.51	0.0228	P	3.1

$$y = 0.0044 * x + 2.4924E-004$$

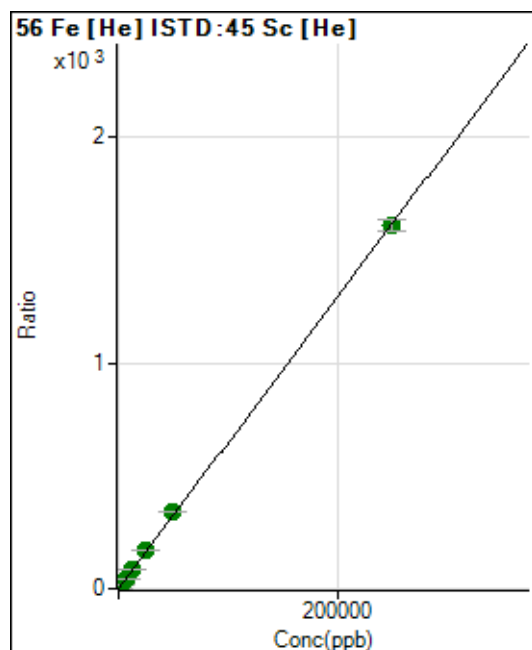
$$R = 0.9999$$

$$DL = 0.03718$$

$$BEC = 0.05636$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	6786.90	0.0200	P	5.1
2	☐	50.000	50.767	117615.72	0.3474	P	1.9
3	☐	2500.000	2734.268	5980080.51	17.6566	A	1.6
4	☐	6250.000	7050.178	14518561.20	45.4951	A	2.3
5	☐	12500.000	13678.393	28674452.26	88.2484	A	1.7
6	☐	25000.000	26158.612	56077802.18	168.7483	A	2.3
7	☐	50000.000	53047.786	111674272.8	342.1888	A	0.4
8	☐	250000.00	249193.31	503129981.6	1,607.366	A	3.2

$$y = 0.0065 * x + 0.0200$$

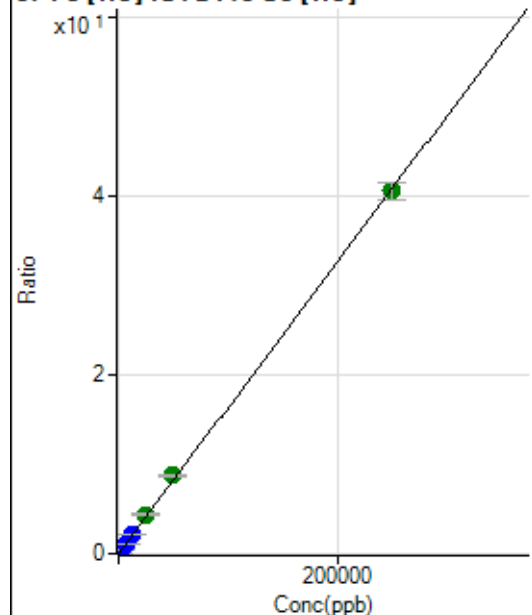
$$R = 0.9999$$

$$DL = 0.4729$$

$$BEC = 3.1$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	231.49	0.0007	P	15.5
2	☐	50.000	53.493	3176.34	0.0094	P	4.7
3	☐	2500.000	2647.097	146122.76	0.4313	P	0.9
4	☐	6250.000	6812.252	353873.86	1.1089	P	2.0
5	☐	12500.000	13258.114	701081.96	2.1576	P	0.9
6	☐	25000.000	26705.543	1443991.31	4.3453	A	2.7
7	☐	50000.000	53617.400	2846772.86	8.7235	A	0.9
8	☐	250000.00	249052.53	12679654.22	40.5181	A	4.5

$$y = 1.6269\text{E-}004 * x + 6.8054\text{E-}004$$

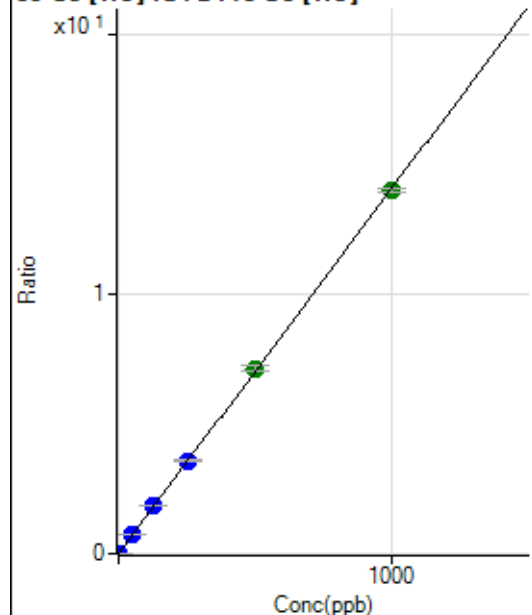
$$R = 0.9999$$

$$DL = 1.95$$

$$BEC = 4.183$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	61.11	0.0002	P	14.5
2	☐	1.000	0.996	4796.41	0.0142	P	1.0
3	☐	50.000	51.371	244471.94	0.7218	P	1.7
4	☐	125.000	132.381	593680.28	1.8598	P	0.9
5	☐	250.000	254.218	1160453.64	3.5714	P	1.3
6	☐	500.000	507.338	2368265.31	7.1271	A	3.5
7	☐	1000.000	994.285	4558055.24	13.9676	A	1.1
8	☐			6020.21	0.0192	P	3.7

$$y = 0.0140 * x + 1.8013\text{E-}004$$

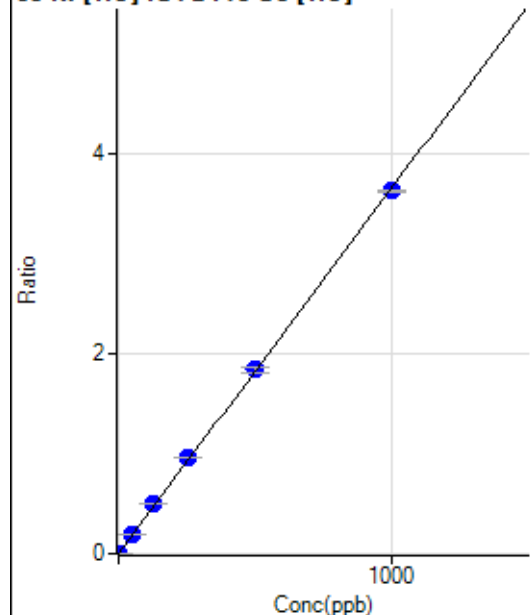
$$R = 0.9999$$

$$DL = 0.005573$$

$$BEC = 0.01282$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	48.89	0.0001	P	8.4
2	☐	1.000	1.082	1384.53	0.0041	P	3.3
3	☐	50.000	52.736	65197.80	0.1925	P	1.8
4	☐	125.000	137.585	160169.00	0.5020	P	2.4
5	☐	250.000	262.133	310725.96	0.9563	P	1.0
6	☐	500.000	504.441	611454.20	1.8401	P	3.1
7	☐	1000.000	993.036	1182145.16	3.6222	P	0.4
8	☐			2975.91	0.0095	P	6.4

$$y = 0.0036 * x + 1.4379E-004$$

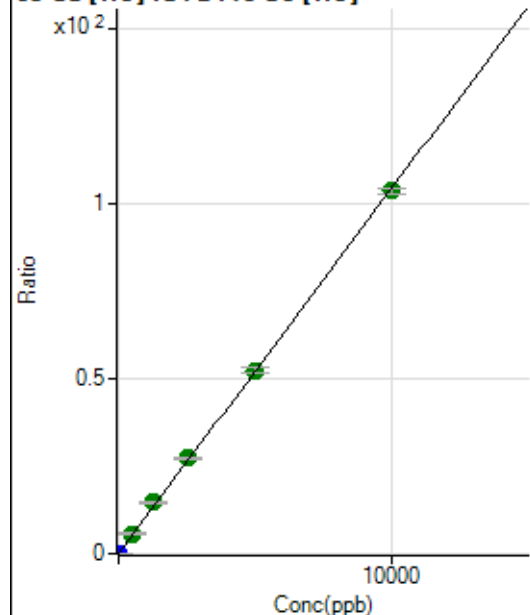
$$R = 0.9999$$

$$DL = 0.009952$$

$$BEC = 0.03942$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	2856.98	0.0084	P	4.0
2	☐	2.000	2.046	10071.42	0.0297	P	1.4
3	☐	500.000	544.453	1925302.86	5.6850	A	3.1
4	☐	1250.000	1401.184	4665786.94	14.6173	A	1.2
5	☐	2500.000	2617.669	8870565.28	27.3005	A	1.8
6	☐	5000.000	5027.921	17422520.57	52.4301	A	3.0
7	☐	10000.000	9935.501	33810758.94	103.5971	A	1.8
8	☐			7602.11	0.0243	P	4.2

$$y = 0.0104 * x + 0.0084$$

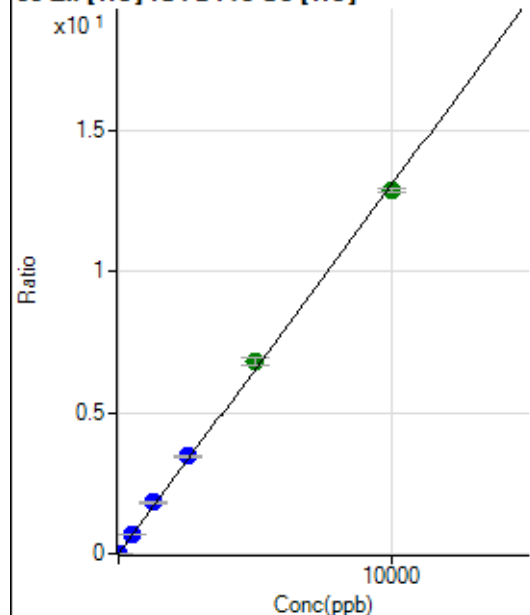
$$R = 0.9998$$

$$DL = 0.0962$$

$$BEC = 0.8074$$

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	238.89	0.0007	P	10.3
2	☐	2.000	2.287	1250.07	0.0037	P	9.9
3	☐	500.000	540.758	239740.67	0.7079	P	2.0
4	☐	1250.000	1392.219	581125.40	1.8214	P	2.6
5	☐	2500.000	2634.379	1119597.71	3.4458	P	1.9
6	☐	5000.000	5214.865	2266344.62	6.8204	A	3.5
7	☐	10000.000	9839.157	4199824.97	12.8677	A	1.0
8	☐			2904.78	0.0093	P	2.7

$$y = 0.0013 * x + 7.0373E-004$$

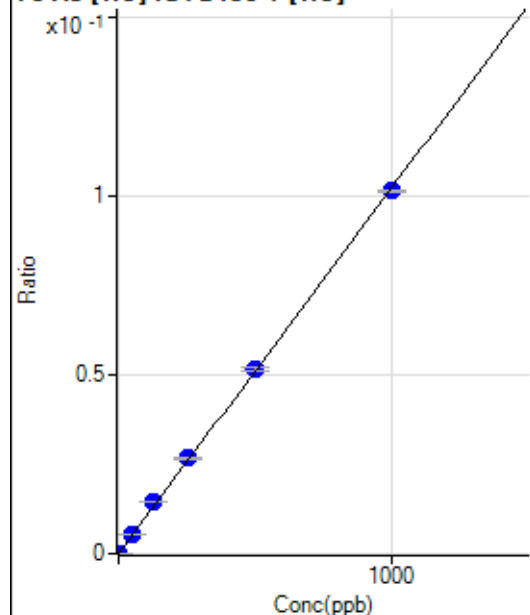
$$R = 0.9995$$

$$DL = 0.167$$

$$BEC = 0.5381$$

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	35.0
2	☐	1.000	1.111	271.70	0.0001	P	12.3
3	☐	50.000	52.166	13057.33	0.0053	P	4.1
4	☐	125.000	142.389	32445.68	0.0145	P	3.1
5	☐	250.000	262.395	62166.05	0.0268	P	2.1
6	☐	500.000	503.809	122657.83	0.0514	P	1.8
7	☐	1000.000	992.715	236703.53	0.1013	P	0.6
8	☐			154.35	0.0001	P	4.2

$$y = 1.0206E-004 * x + 1.3970E-006$$

$$R = 0.9998$$

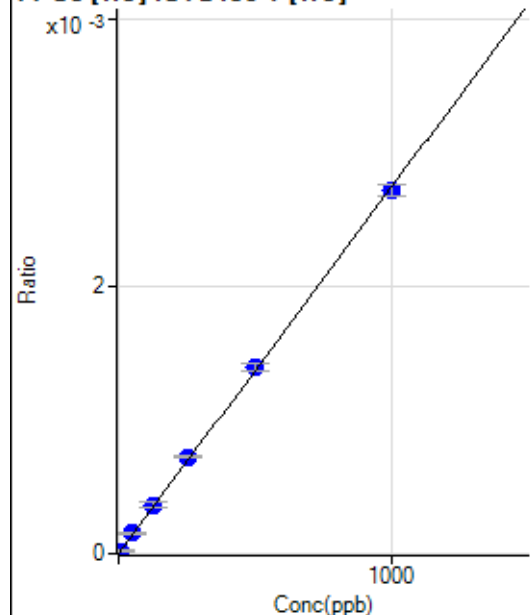
$$DL = 0.01437$$

$$BEC = 0.01369$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	7.169	46.67	0.0000	P	24.5
3	☐	50.000	55.834	374.45	0.0002	P	15.8
4	☐	125.000	133.732	816.70	0.0004	P	10.7
5	☐	250.000	263.477	1676.79	0.0007	P	2.4
6	☐	500.000	510.881	3340.43	0.0014	P	4.0
7	☐	1000.000	989.796	6337.05	0.0027	P	3.1
8	☐			6.66	0.0000	P	85.4

$$y = 2.7411\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9998$$

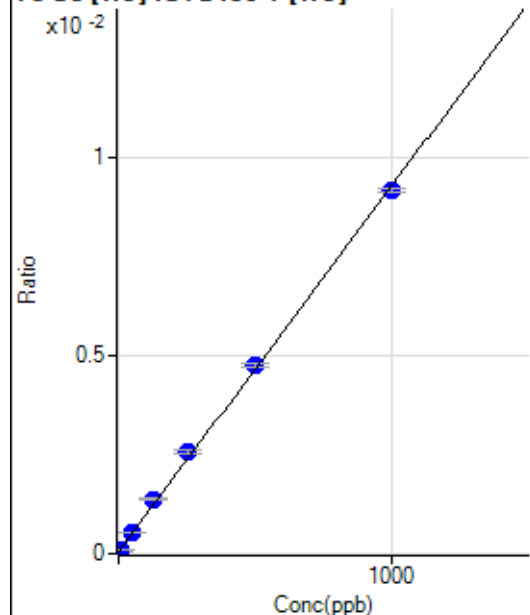
$$DL = 0$$

$$BEC = 0$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	112.34	0.0000	P	6.8
2	☐	5.000	5.407	229.70	0.0001	P	0.6
3	☐	50.000	54.091	1339.20	0.0005	P	1.5
4	☐	125.000	144.058	3070.65	0.0014	P	3.3
5	☐	250.000	272.521	5941.86	0.0026	P	3.3
6	☐	500.000	509.761	11326.03	0.0047	P	1.5
7	☐	1000.000	986.900	21368.98	0.0091	P	1.0
8	☐			99.34	0.0000	P	6.0

$$y = 9.2206\text{E-}006 * x + 4.7106\text{E-}005$$

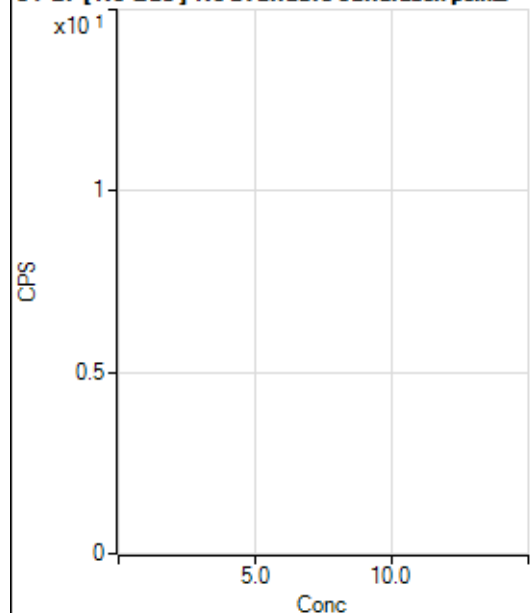
$$R = 0.9995$$

$$DL = 1.046$$

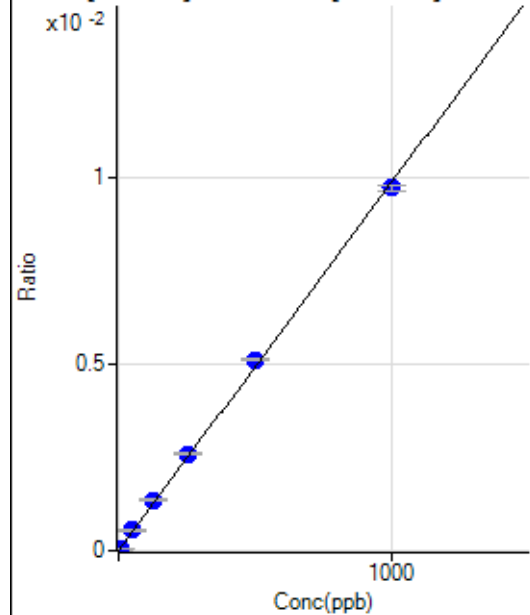
$$BEC = 5.109$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			80048.79		P	1.0
2	☐			76484.17		P	4.5
3	☐			75989.34		P	2.0
4	☐			77005.39		P	1.7
5	☐			75201.94		P	3.4
6	☐			75579.68		P	2.9
7	☐			76015.87		P	3.4
8	☐			71640.48		P	2.7

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	27.08	0.0000	P	146.
2	☐	5.000	5.817	1126.21	0.0001	P	7.6
3	☐	50.000	54.864	10629.42	0.0005	P	3.7
4	☐	125.000	136.826	26026.86	0.0014	P	2.8
5	☐	250.000	262.613	49940.50	0.0026	P	2.8
6	☐	500.000	519.206	97443.82	0.0051	P	1.6
7	☐	1000.000	985.518	186802.39	0.0097	P	1.8
8	☐			241.65	0.0000	P	14.7

$$y = 9.8691E-006 * x + 1.3894E-006$$

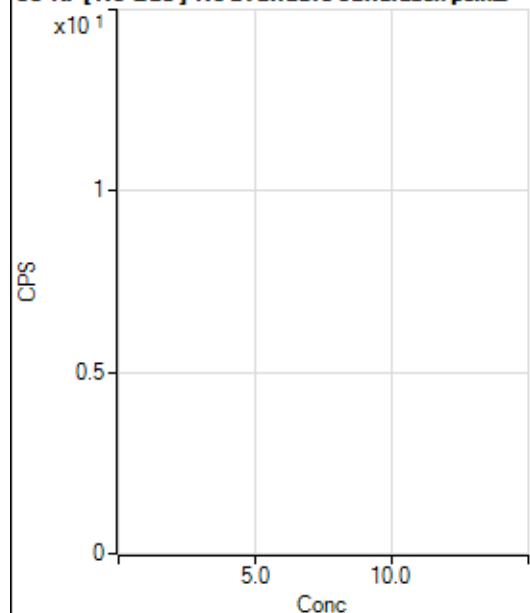
$$R = 0.9996$$

$$DL = 0.6175$$

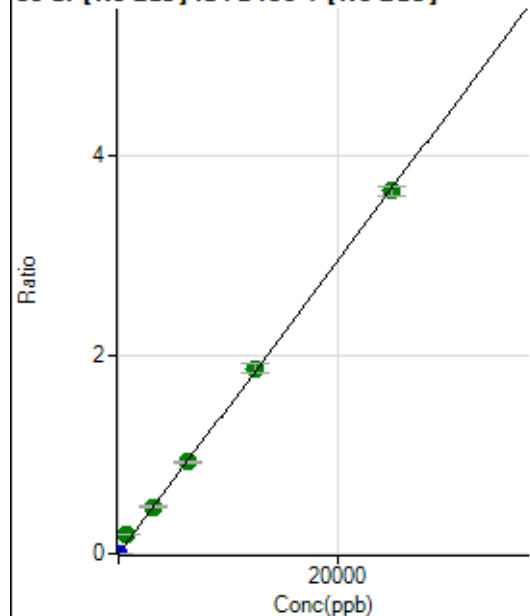
$$BEC = 0.1408$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			581.19		P	4.5
2	☐			567.44		P	3.2
3	☐			608.69		P	3.3
4	☐			565.78		P	5.1
5	☐			576.19		P	9.6
6	☐			585.77		P	6.9
7	☐			646.60		P	4.9
8	☐			606.19		P	0.6

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1077.86	0.0001	P	18.5
2	☐	1.000	1.092	4200.74	0.0002	P	3.7
3	☐	625.000	1301.264	3744080.47	0.1912	A	3.0
4	☐	3125.000	3178.483	8988171.12	0.4669	A	4.3
5	☐	6250.000	6307.792	17842708.04	0.9265	A	2.5
6	☐	12500.000	12711.087	35478097.32	1.8669	A	4.2
7	☐	25000.000	24856.417	70093357.82	3.6506	A	2.5
8	☐			21202.72	0.0012	P	2.0

$$y = 1.4687E-004 * x + 5.8804E-005$$

$$R = 0.9996$$

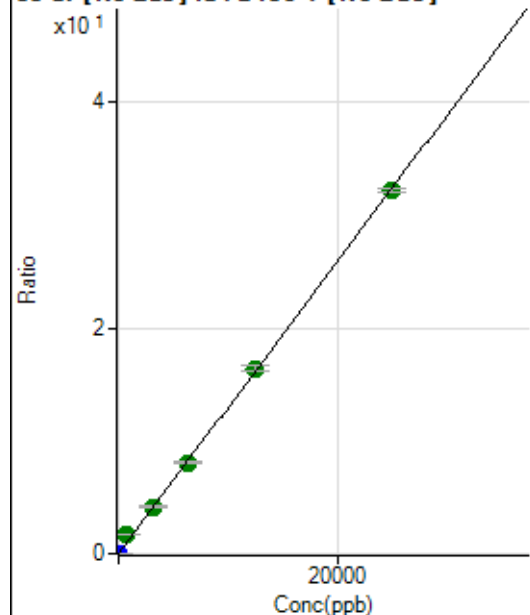
$$DL = 0.2221$$

$$BEC = 0.4004$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1316.77	0.0001	P	2.2
2	☐	1.000	0.991	25907.98	0.0014	P	1.3
3	☐	625.000	1280.088	32391907.32	1.6536	A	1.9
4	☐	3125.000	3210.146	79843821.92	4.1468	A	2.9
5	☐	6250.000	6236.600	155163817.3	8.0563	A	2.1
6	☐	12500.000	12705.761	311914198.6	16.4128	A	3.7
7	☐	25000.000	24873.449	617094219.3	32.1306	A	0.9
8	☐			176222.53	0.0097	P	0.7

$$y = 0.0013 * x + 7.1295E-005$$

$$R = 0.9997$$

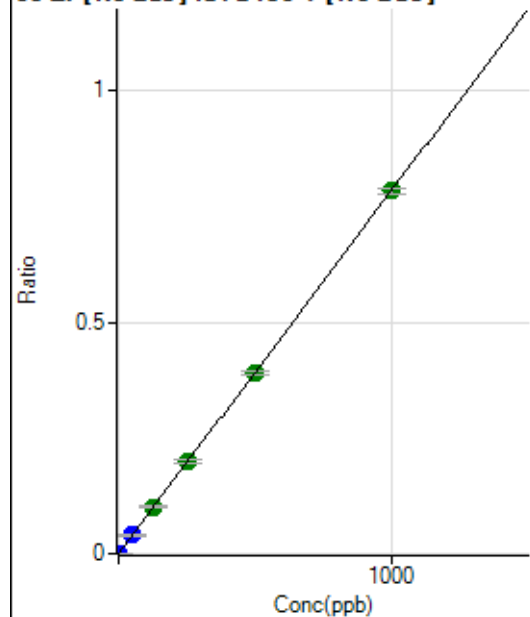
$$DL = 0.003626$$

$$BEC = 0.05519$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	783.38	0.0000	P	13.8
2	☐	1.000	0.968	15353.26	0.0008	P	1.3
3	☐	50.000	50.584	777787.25	0.0397	P	1.4
4	☐	125.000	128.277	1937197.54	0.1006	A	3.5
5	☐	250.000	253.350	3826168.75	0.1987	A	3.4
6	☐	500.000	499.055	7439212.40	0.3913	A	2.6
7	☐	1000.000	999.196	15045510.40	0.7835	A	1.9
8	☐			7138.11	0.0004	P	5.1

$$y = 7.8407E-004 * x + 4.2138E-005$$

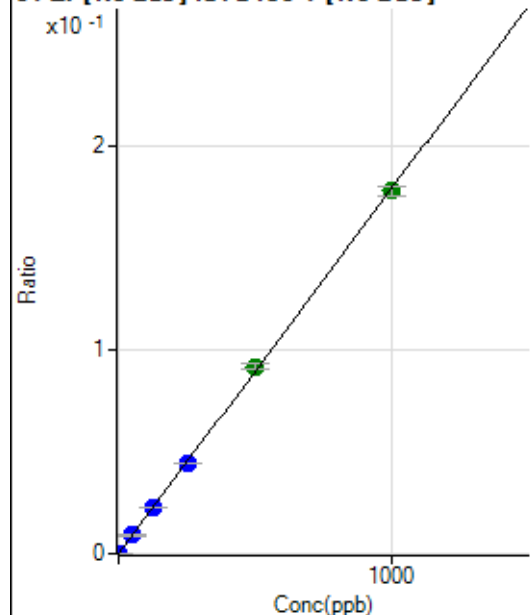
$$R = 1.0000$$

$$DL = 0.02226$$

$$BEC = 0.05374$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	130.56	0.0000	P	12.2
2	☐	1.000	0.937	3353.27	0.0002	P	6.7
3	☐	50.000	50.185	176217.00	0.0090	P	2.4
4	☐	125.000	125.467	432895.69	0.0225	P	2.5
5	☐	250.000	248.861	858921.69	0.0446	P	0.3
6	☐	500.000	512.036	1743465.97	0.0917	A	3.1
7	☐	1000.000	994.199	3419669.39	0.1781	A	2.4
8	☐			1519.57	0.0001	P	6.3

$$y = 1.7913E-004 * x + 7.0882E-006$$

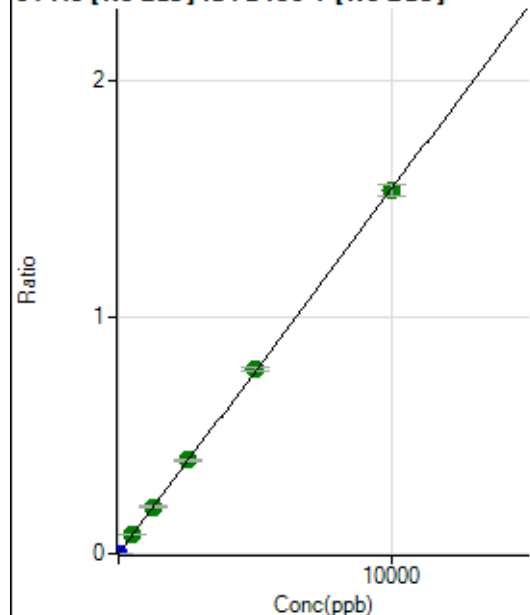
$$R = 0.9999$$

$$DL = 0.01446$$

$$BEC = 0.03957$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	222.23	0.0000	P	15.5
2	☐	5.000	5.742	17213.90	0.0009	P	2.6
3	☐	500.000	518.395	1566717.44	0.0800	A	2.6
4	☐	1250.000	1277.492	3794830.86	0.1971	A	4.0
5	☐	2500.000	2566.123	7625701.56	0.3959	A	2.2
6	☐	5000.000	5056.765	14833613.87	0.7802	A	1.8
7	☐	10000.000	9950.730	29474815.94	1.5352	A	3.1
8	☐			8547.35	0.0005	P	4.6

$$y = 1.5428E-004 * x + 1.2100E-005$$

$$R = 1.0000$$

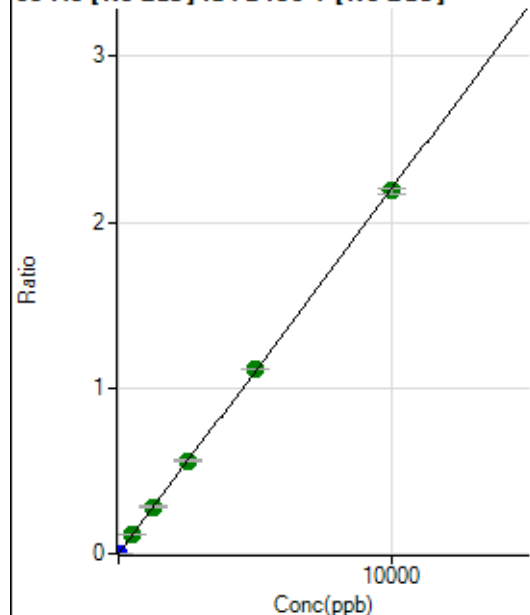
$$DL = 0.0364$$

$$BEC = 0.07843$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	25.00	0.0000	P	90.4
2	☐	5.000	4.931	20827.23	0.0011	P	2.1
3	☐	500.000	520.504	2243899.40	0.1145	A	1.2
4	☐	1250.000	1284.031	5440454.38	0.2826	A	3.0
5	☐	2500.000	2551.554	10813818.91	0.5615	A	2.4
6	☐	5000.000	5071.482	21220630.16	1.1160	A	0.6
7	☐	10000.000	9946.092	42032684.62	2.1887	A	1.3
8	☐			8678.01	0.0005	P	7.6

$$y = 2.2005\text{E-}004 * x + 1.3878\text{E-}006$$

$$R = 0.9999$$

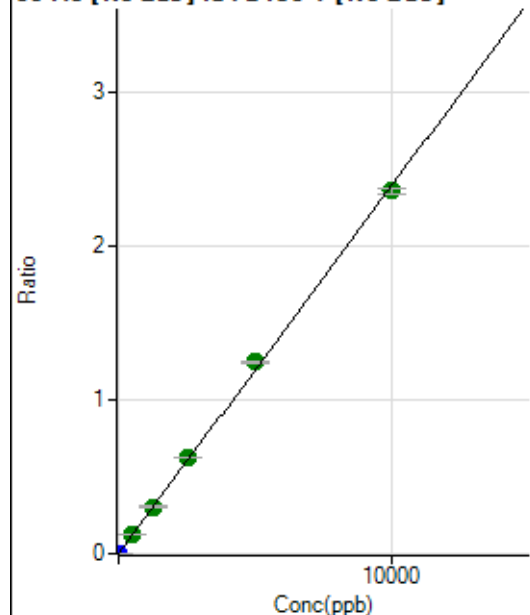
$$DL = 0.01711$$

$$BEC = 0.006307$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	308.35	0.0000	P	7.4
2	☐	5.000	5.073	23606.79	0.0012	P	4.1
3	☐	500.000	525.152	2464068.65	0.1258	A	2.4
4	☐	1250.000	1269.723	5857410.55	0.3042	A	3.8
5	☐	2500.000	2614.697	12064298.19	0.6263	A	2.0
6	☐	5000.000	5203.607	23698928.31	1.2465	A	1.3
7	☐	10000.000	9865.799	45390543.38	2.3632	A	1.6
8	☐			29034.07	0.0016	P	4.2

$$y = 2.3953\text{E-}004 * x + 1.6688\text{E-}005$$

$$R = 0.9996$$

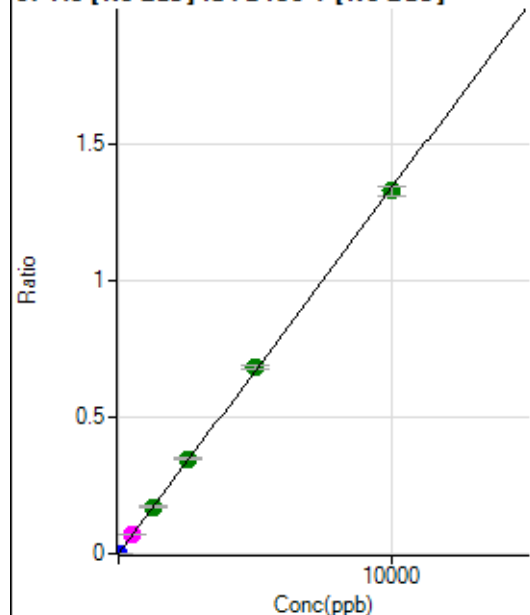
$$DL = 0.01551$$

$$BEC = 0.06967$$

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	113.
2	☐	5.000	5.088	13050.94	0.0007	P	4.5
3	☐	500.000	529.303	1386256.65	0.0708	M	3.0
4	☐	1250.000	1281.680	3299685.84	0.1714	A	3.5
5	☐	2500.000	2592.199	6676343.34	0.3466	A	1.8
6	☐	5000.000	5096.688	12954543.69	0.6815	A	2.7
7	☐	10000.000	9923.181	25477689.80	1.3269	A	2.7
8	☐			5740.25	0.0003	P	13.7

$$y = 1.3372\text{E-}004 * x + 5.7628\text{E-}007$$

$$R = 0.9999$$

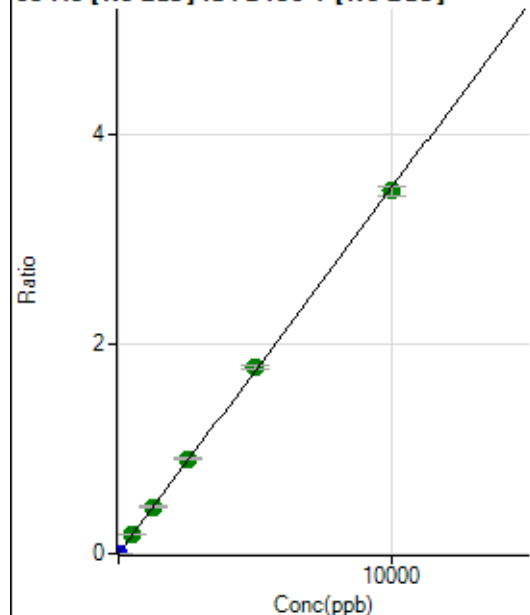
$$DL = 0.01473$$

$$BEC = 0.00431$$

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	80.56	0.0000	P	45.1
2	☐	5.000	4.866	32566.50	0.0017	P	1.1
3	☐	500.000	521.072	3554626.08	0.1814	A	1.4
4	☐	1250.000	1281.684	8594206.44	0.4463	A	1.9
5	☐	2500.000	2599.973	17435843.10	0.9053	A	2.2
6	☐	5000.000	5100.493	33765517.08	1.7760	A	1.3
7	☐	10000.000	9919.746	66320550.79	3.4540	A	2.4
8	☐			13301.18	0.0007	P	7.0

$$y = 3.4819\text{E-}004 * x + 4.3666\text{E-}006$$

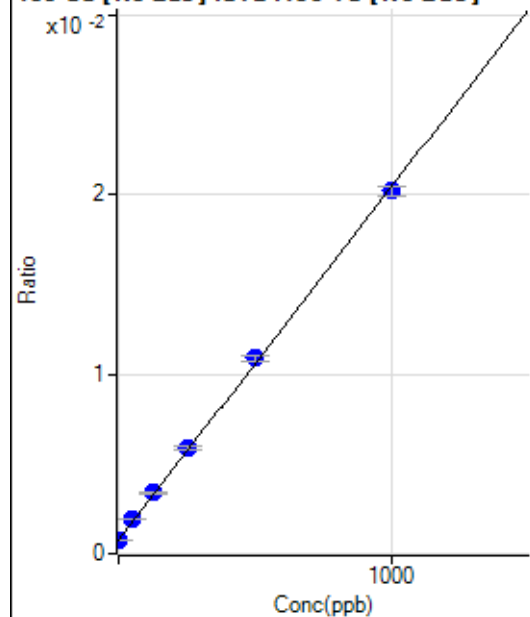
$$R = 0.9999$$

$$DL = 0.01696$$

$$BEC = 0.01254$$

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	8411.14	0.0008	P	2.2
2	☐	1.000	0.760	9033.75	0.0008	P	1.8
3	☐	50.000	59.463	22477.35	0.0019	P	3.8
4	☐	125.000	134.443	40686.23	0.0034	P	3.8
5	☐	250.000	259.283	71025.80	0.0058	P	3.3
6	☐	500.000	515.197	130312.94	0.0109	P	3.0
7	☐	1000.000	988.427	244035.59	0.0202	P	2.9
8	☐			8416.69	0.0007	P	2.0

$$y = 1.9653\text{E-}005 * x + 7.5423\text{E-}004$$

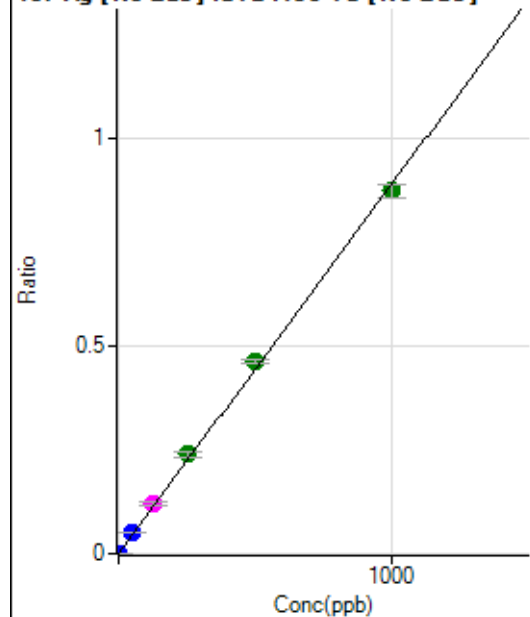
$$R = 0.9997$$

$$DL = 2.519$$

$$BEC = 38.38$$

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	166.67	0.0000	P	30.4
2	☐	1.000	1.095	11619.16	0.0010	P	2.4
3	☐	50.000	57.278	596073.56	0.0510	P	1.1
4	☐	125.000	135.744	1447178.26	0.1208	M	4.3
5	☐	250.000	268.495	2901632.86	0.2390	A	4.6
6	☐	500.000	522.018	5565076.12	0.4646	A	2.5
7	☐	1000.000	982.660	10574430.70	0.8745	A	3.6
8	☐			2361.39	0.0002	P	4.8

$$y = 8.8992\text{E-}004 * x + 1.5162\text{E-}005$$

$$R = 0.9994$$

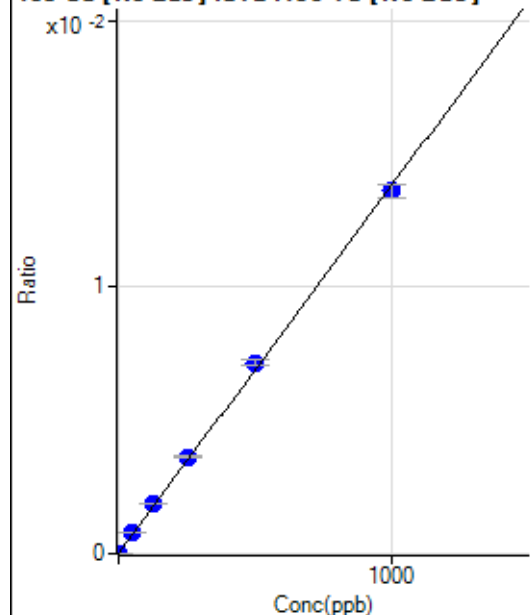
$$DL = 0.01552$$

$$BEC = 0.01704$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	55.56	0.0000	P	7.1
2	☐	1.000	1.241	259.73	0.0000	P	8.6
3	☐	50.000	57.299	9297.69	0.0008	P	1.0
4	☐	125.000	135.047	22375.26	0.0019	P	2.0
5	☐	250.000	263.351	44166.71	0.0036	P	3.3
6	☐	500.000	518.567	85744.57	0.0072	P	2.6
7	☐	1000.000	985.758	164465.91	0.0136	P	3.5
8	☐			205.56	0.0000	P	20.6

$$y = 1.3793\text{E-}005 * x + 4.9935\text{E-}006$$

$$R = 0.9996$$

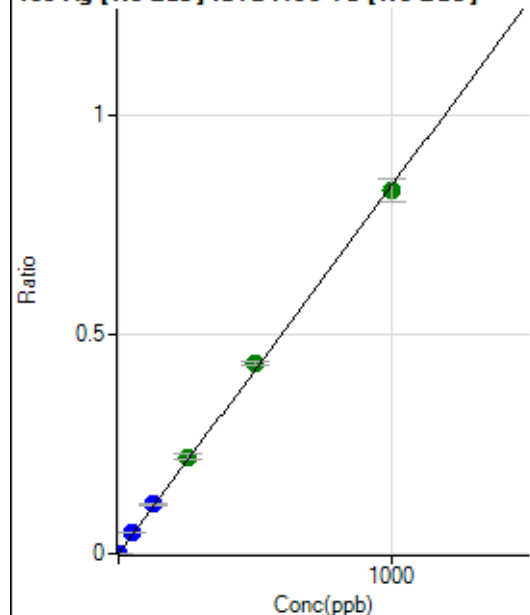
$$DL = 0.07739$$

$$BEC = 0.362$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	125.00	0.0000	P	15.0
2	☐	1.000	1.071	10693.34	0.0009	P	1.9
3	☐	50.000	56.842	558129.75	0.0477	P	0.8
4	☐	125.000	133.970	1347855.57	0.1125	P	1.6
5	☐	250.000	263.761	2688328.97	0.2215	A	4.6
6	☐	500.000	517.518	5206607.71	0.4346	A	1.8
7	☐	1000.000	986.337	10008844.58	0.8282	A	6.3
8	☐			2041.89	0.0002	P	4.4

$$y = 8.3969\text{E-}004 * x + 1.1288\text{E-}005$$

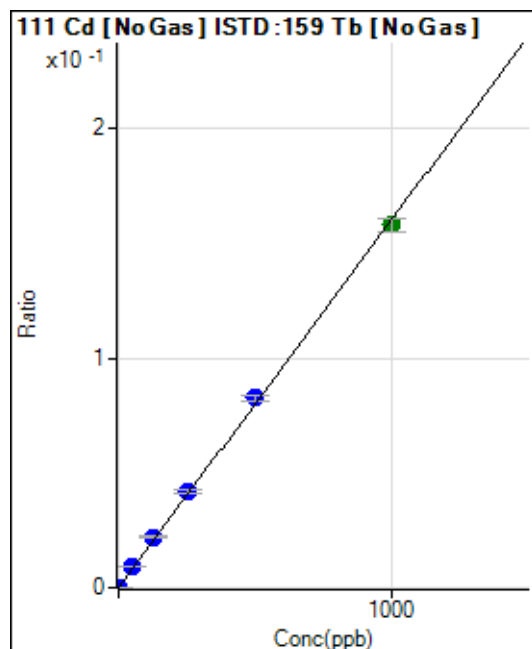
$$R = 0.9997$$

$$DL = 0.006045$$

$$BEC = 0.01344$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	88.27	0.0000	P	19.8
2	☐	1.000	1.092	2146.24	0.0002	P	4.4
3	☐	50.000	56.690	106149.40	0.0091	P	0.8
4	☐	125.000	138.092	264896.19	0.0221	P	1.7
5	☐	250.000	260.402	505945.79	0.0417	P	4.5
6	☐	500.000	517.486	991999.91	0.0828	P	3.0
7	☐	1000.000	986.685	1909252.85	0.1579	A	3.9
8	☐			231.94	0.0000	P	20.6

$$y = 1.6003\text{E-}004 * x + 7.9405\text{E-}006$$

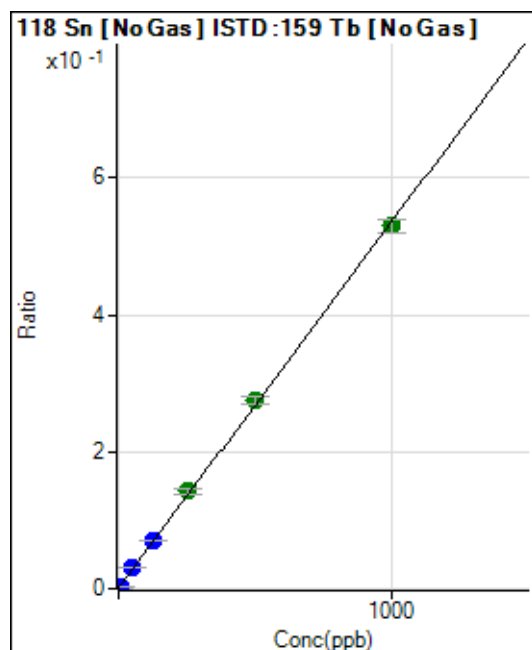
$$R = 0.9997$$

$$DL = 0.02955$$

$$BEC = 0.04962$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	8113.83	0.0007	P	8.3
2	☐	5.000	5.003	39987.48	0.0034	P	3.3
3	☐	50.000	55.207	353602.03	0.0302	P	0.8
4	☐	125.000	131.606	851806.45	0.0711	P	0.3
5	☐	250.000	263.833	1720668.93	0.1418	A	5.9
6	☐	500.000	512.547	3290864.20	0.2748	A	3.3
7	☐	1000.000	989.182	6403561.38	0.5296	A	3.8
8	☐			6865.81	0.0006	P	2.6

$$y = 5.3465\text{E-}004 * x + 7.3008\text{E-}004$$

$$R = 0.9998$$

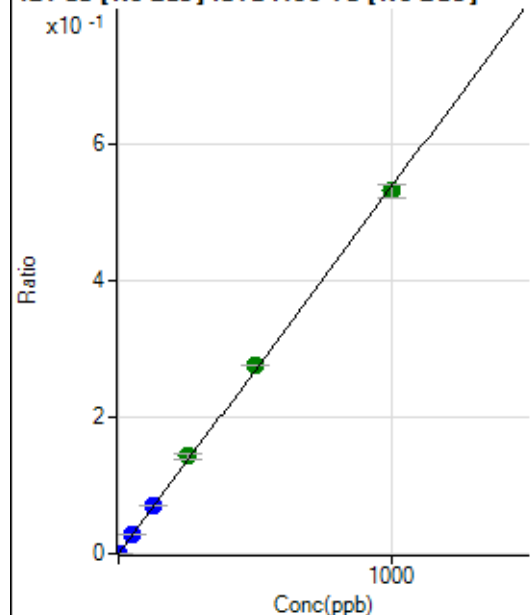
$$DL = 0.3385$$

$$BEC = 1.366$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	27.78	0.0000	P	40.0
2	☐	2.000	1.949	12333.66	0.0011	P	3.3
3	☐	50.000	54.538	342718.35	0.0293	P	0.3
4	☐	125.000	129.663	834974.62	0.0697	P	1.2
5	☐	250.000	265.050	1728783.37	0.1425	A	5.2
6	☐	500.000	513.685	3308915.14	0.2761	A	0.8
7	☐	1000.000	988.586	6423953.87	0.5313	A	4.1
8	☐			7174.31	0.0006	P	7.4

$$y = 5.3748\text{E-}004 * x + 2.4470\text{E-}006$$

$$R = 0.9997$$

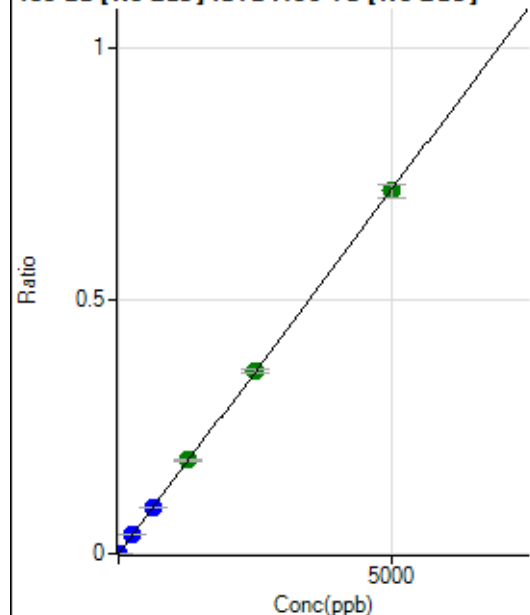
$$DL = 0.005458$$

$$BEC = 0.004553$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	19.44	0.0000	P	73.8
2	☐	10.000	10.042	16989.01	0.0014	P	2.0
3	☐	250.000	261.618	440028.06	0.0376	P	2.3
4	☐	625.000	636.332	1096892.97	0.0916	P	0.9
5	☐	1250.000	1281.774	2238829.02	0.1844	A	4.0
6	☐	2500.000	2508.182	4323274.44	0.3609	A	2.0
7	☐	5000.000	4985.968	8675244.55	0.7173	A	3.7
8	☐			3700.60	0.0003	P	2.8

$$y = 1.4387\text{E-}004 * x + 1.8146\text{E-}006$$

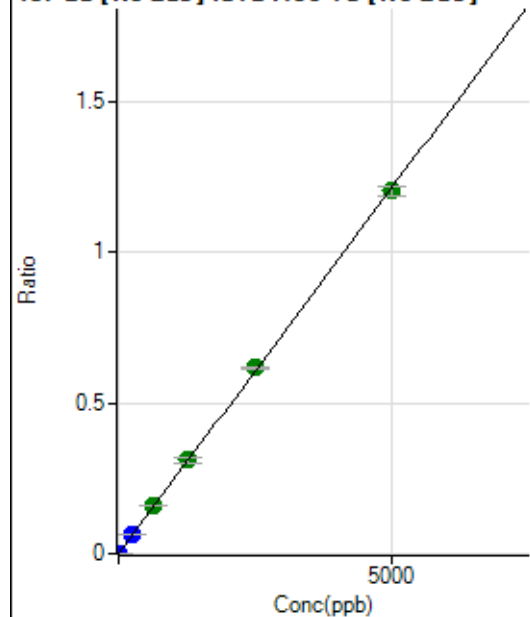
$$R = 1.0000$$

$$DL = 0.02792$$

$$BEC = 0.01261$$

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	69.45	0.0000	P	27.3
2	☐	10.000	10.198	29143.51	0.0025	P	4.1
3	☐	250.000	269.517	764859.91	0.0654	P	1.4
4	☐	625.000	658.603	1915138.47	0.1599	A	3.5
5	☐	1250.000	1280.098	3770993.23	0.3107	A	5.2
6	☐	2500.000	2546.278	7410516.57	0.6181	A	1.5
7	☐	5000.000	4964.160	14574934.35	1.2050	A	2.8
8	☐			6687.94	0.0006	P	2.4

$$y = 2.4274E-004 * x + 6.2700E-006$$

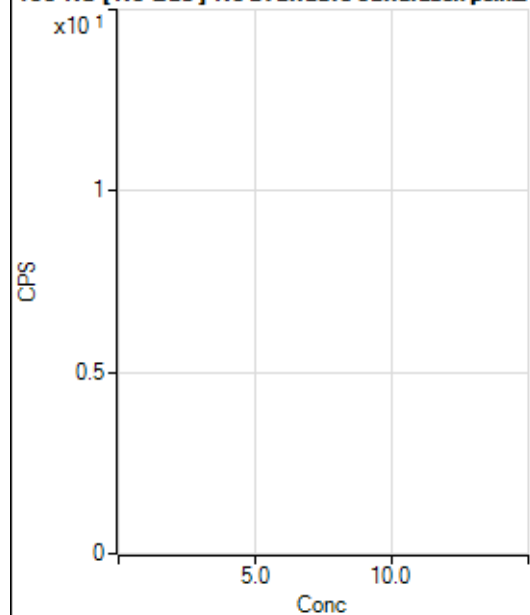
$$R = 0.9999$$

$$DL = 0.02119$$

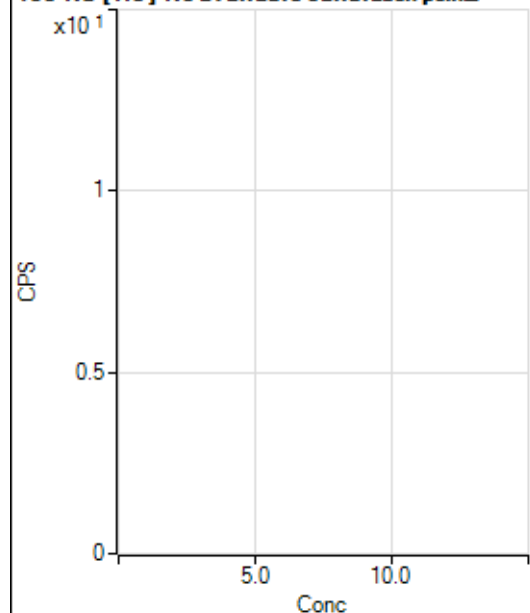
$$BEC = 0.02583$$

Weight: <None>

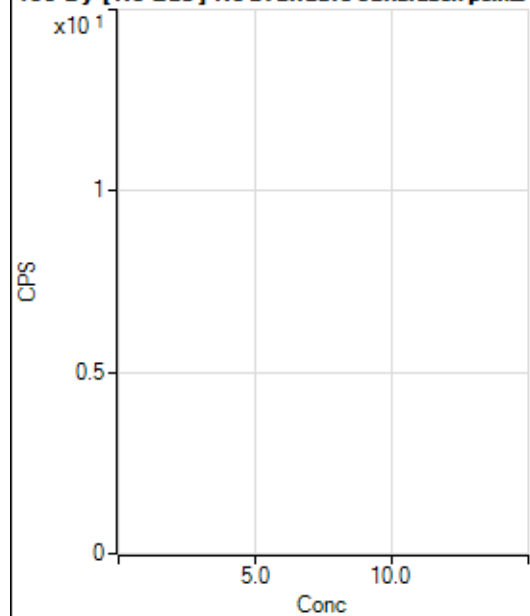
Min Conc: 0

150 Nd [No Gas] No available calibration points

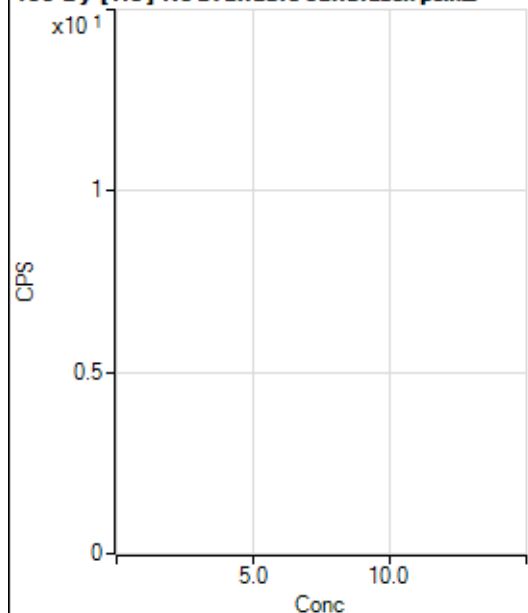
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.45		P	86.6
2	☐			6.67		P	0.0
3	☐			51.11		P	19.9
4	☐			102.23		P	49.8
5	☐			186.67		P	27.9
6	☐			471.13		P	13.1
7	☐			835.60		P	9.1
8	☐			100.00		P	23.1

150 Nd [He] No available calibration points

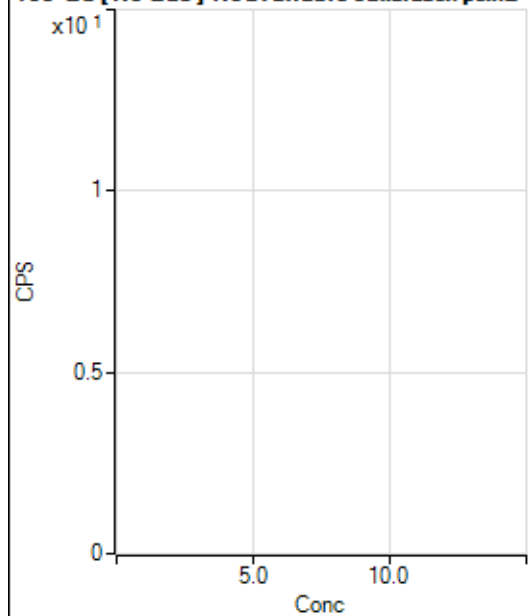
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			4.44		P	114.
3	☐			2.22		P	86.6
4	☐			4.44		P	43.4
5	☐			18.89		P	40.7
6	☐			27.78		P	6.9
7	☐			47.78		P	20.1
8	☐			30.00		P	11.1

156 Dy [No Gas] No available calibration points

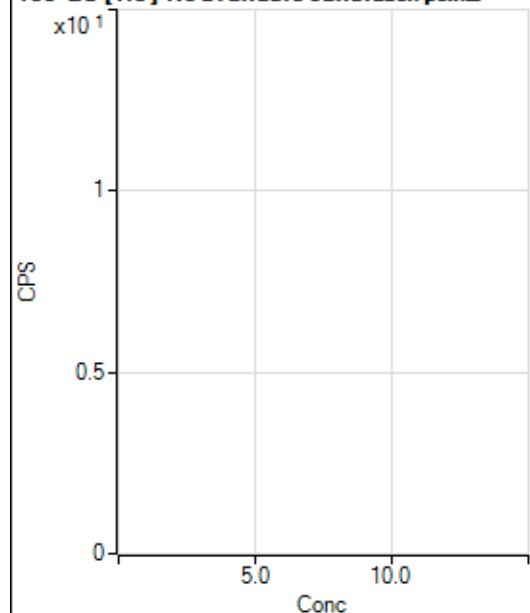
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.78		P	173.
2	☐			5.55		P	86.6
3	☐			30.56		P	41.7
4	☐			61.11		P	47.9
5	☐			83.33		P	43.6
6	☐			188.90		P	5.1
7	☐			427.80		P	18.1
8	☐			833.38		P	6.1

156 Dy [He] No available calibration points

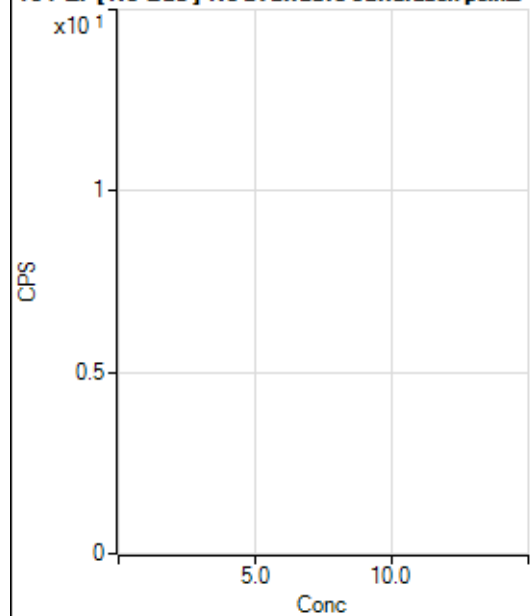
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.55		P	69.3
2	☐			3.33		P	100.
3	☐			5.55		P	69.3
4	☐			23.33		P	37.8
5	☐			34.44		P	55.0
6	☐			66.67		P	18.0
7	☐			131.12		P	15.5
8	☐			280.01		P	11.9

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

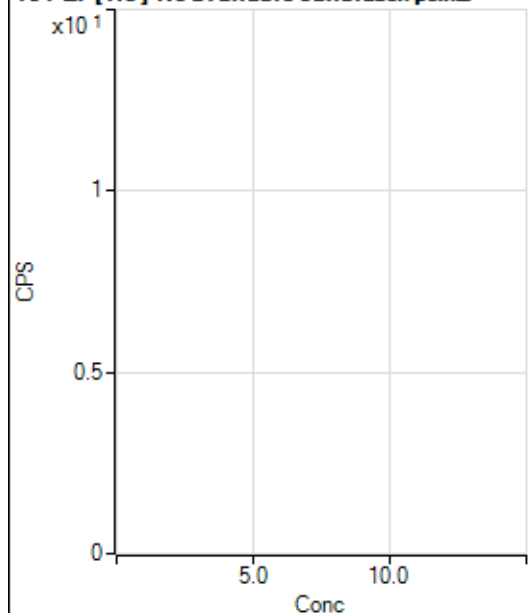
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			102.78		P	20.4
2	☐			144.45		P	17.6
3	☐			102.78		P	4.7
4	☐			144.45		P	3.3
5	☐			197.23		P	6.5
6	☐			230.57		P	25.6
7	☐			316.68		P	10.5
8	☐			591.70		P	6.1

160 Gd [He] No available calibration points

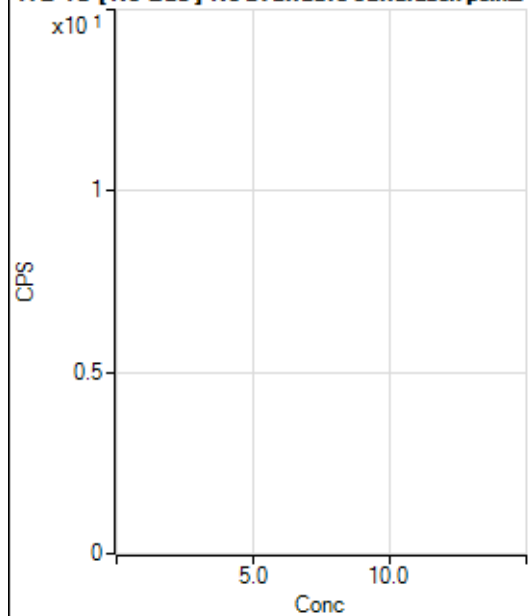
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			143.34		P	26.8
2	☐			162.23		P	3.1
3	☐			178.89		P	19.7
4	☐			154.45		P	7.6
5	☐			182.23		P	26.0
6	☐			157.78		P	16.9
7	☐			252.23		P	9.0
8	☐			451.12		P	8.1

164 Er [No Gas] No available calibration points

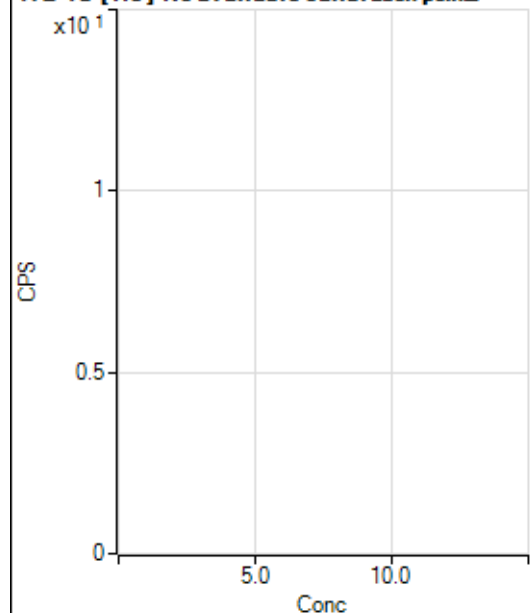
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			30.56		P	41.7
2	☐			63.89		P	32.8
3	☐			52.78		P	65.7
4	☐			69.45		P	25.0
5	☐			52.78		P	81.0
6	☐			75.00		P	29.4
7	☐			102.78		P	20.4
8	☐			80.56		P	23.9

164 Er [He] No available calibration points

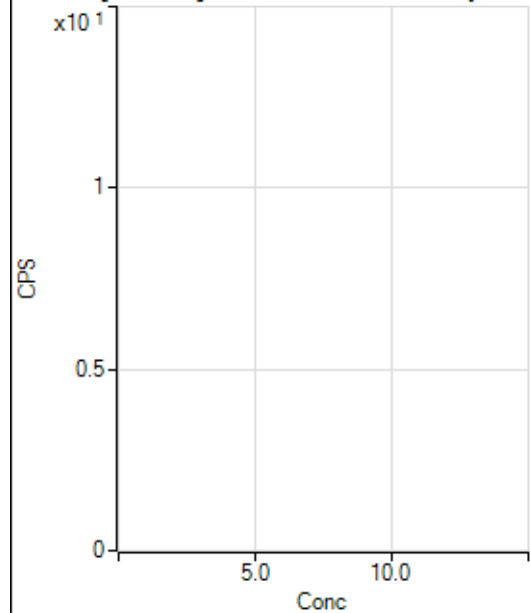
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			21.11		P	32.9
2	☐			28.89		P	24.0
3	☐			20.00		P	16.7
4	☐			27.78		P	27.7
5	☐			20.00		P	28.9
6	☐			44.44		P	18.9
7	☐			54.44		P	31.4
8	☐			52.22		P	25.8

172 Yb [No Gas] No available calibration points

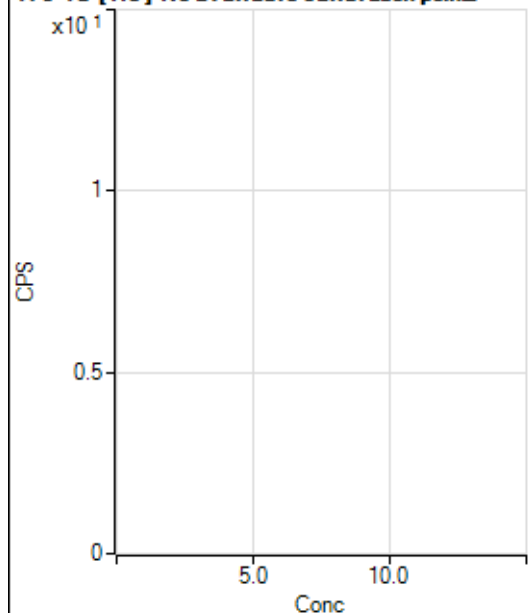
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			61.11		P	15.7
2	☐			80.56		P	26.0
3	☐			86.11		P	20.1
4	☐			66.67		P	33.1
5	☐			55.56		P	22.9
6	☐			119.45		P	24.5
7	☐			108.34		P	33.5
8	☐			163.90		P	10.6

172 Yb [He] No available calibration points

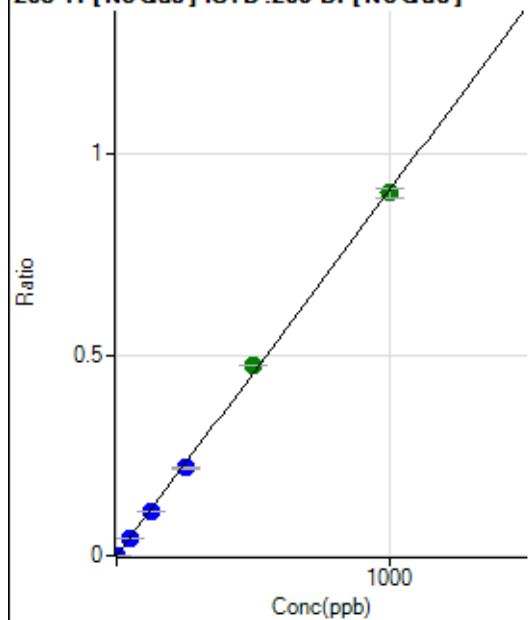
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			27.78		P	40.0
2	☐			37.04		P	31.2
3	☐			42.59		P	45.8
4	☐			42.59		P	49.4
5	☐			37.04		P	22.9
6	☐			72.22		P	40.0
7	☐			85.19		P	30.8
8	☐			87.04		P	42.5

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2636.45		P	5.4
2	☐			2986.53		P	0.9
3	☐			3367.20		P	3.7
4	☐			4259.16		P	3.6
5	☐			6143.29		P	1.0
6	☐			9125.63		P	1.0
7	☐			15679.17		P	3.3
8	☐			2447.52		P	4.4

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			11179.00		P	2.6
2	☐			10943.59		P	1.3
3	☐			11277.23		P	2.2
4	☐			11017.78		P	1.9
5	☐			12281.86		P	3.3
6	☐			14452.59		P	1.1
7	☐			16660.79		P	1.3
8	☐			10041.04		P	4.5

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	419.46	0.0001	P	15.0
2	☐	1.000	0.954	5951.55	0.0009	P	0.9
3	☐	50.000	47.418	274589.70	0.0433	P	2.7
4	☐	125.000	121.250	699187.85	0.1105	P	2.1
5	☐	250.000	240.161	1363280.16	0.2189	P	1.9
6	☐	500.000	520.025	2889289.35	0.4738	A	0.5
7	☐	1000.000	993.045	5451300.34	0.9048	A	2.4
8	☐			1914.09	0.0004	P	4.5

$$y = 9.1103\text{E-}004 * x + 6.9309\text{E-}005$$

$$R = 0.9996$$

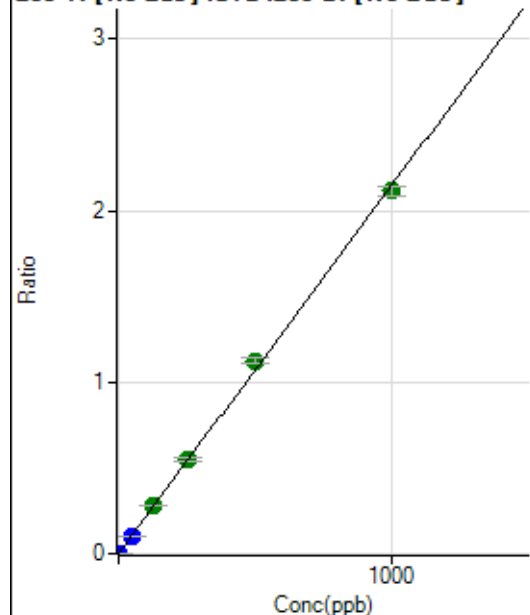
$$DL = 0.03415$$

$$BEC = 0.07608$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1100.08	0.0002	P	4.3
2	☐	1.000	0.902	13429.65	0.0021	P	4.6
3	☐	50.000	48.615	663238.68	0.1045	P	0.8
4	☐	125.000	128.453	1744522.91	0.2757	A	0.5
5	☐	250.000	257.502	3441304.81	0.5526	A	4.1
6	☐	500.000	523.819	6854566.95	1.1238	A	3.0
7	☐	1000.000	985.853	12740109.92	2.1150	A	2.4
8	☐			4756.57	0.0009	P	7.1

$$y = 0.0021 * x + 1.8258E-004$$

$$R = 0.9995$$

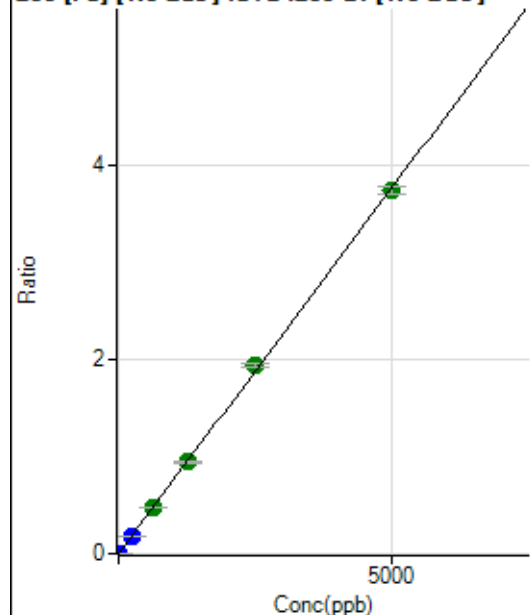
$$DL = 0.01094$$

$$BEC = 0.08511$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1022.28	0.0002	P	4.0
2	☐	1.000	0.918	5458.69	0.0009	P	3.4
3	☐	250.000	234.229	1121395.87	0.1767	P	3.4
4	☐	625.000	632.194	3015163.44	0.4767	A	2.3
5	☐	1250.000	1250.929	5873527.91	0.9430	A	2.8
6	☐	2500.000	2567.390	11803437.42	1.9352	A	2.1
7	☐	5000.000	4965.962	22547467.86	3.7431	A	2.2
8	☐			4465.68	0.0009	P	4.4

$$y = 7.5371E-004 * x + 1.6941E-004$$

$$R = 0.9999$$

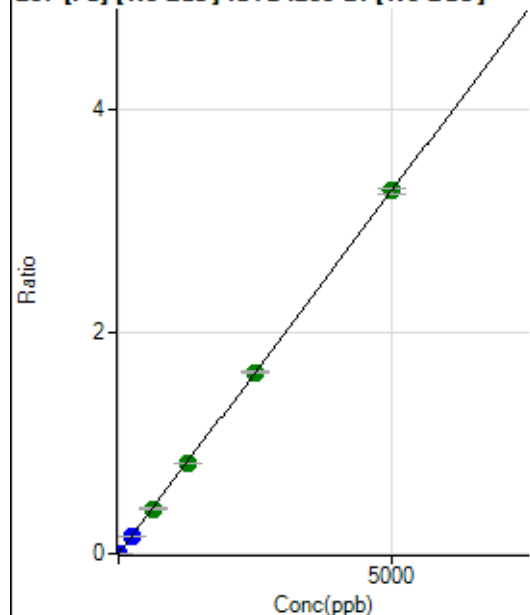
$$DL = 0.02699$$

$$BEC = 0.2248$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	851.90	0.0001	P	9.8
2	☐	1.000	0.891	4589.79	0.0007	P	3.6
3	☐	250.000	237.890	987311.57	0.1556	P	1.8
4	☐	625.000	621.175	2569035.65	0.4060	A	1.9
5	☐	1250.000	1237.479	5037434.32	0.8086	A	0.5
6	☐	2500.000	2504.652	9977819.67	1.6365	A	1.7
7	☐	5000.000	5001.888	19686970.81	3.2679	A	1.5
8	☐			3528.32	0.0007	P	10.7

$$y = 6.5331E-004 * x + 1.4176E-004$$

R = 1.0000

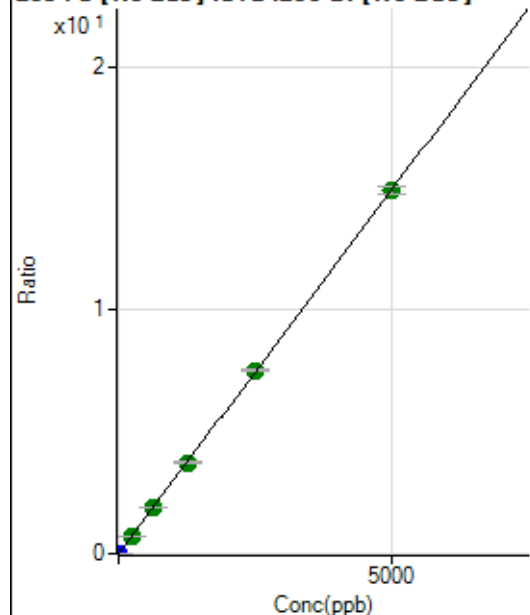
DL = 0.06352

BEC = 0.217

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	3961.42	0.0007	P	8.3
2	☐	1.000	0.911	21425.87	0.0034	P	3.9
3	☐	250.000	246.278	4671773.44	0.7361	A	2.2
4	☐	625.000	629.359	11895772.55	1.8801	A	1.1
5	☐	1250.000	1248.829	23236625.35	3.7300	A	1.2
6	☐	2500.000	2518.803	45869681.00	7.5224	A	0.9
7	☐	5000.000	4990.533	89776234.18	14.9036	A	2.3
8	☐			16774.91	0.0033	P	6.4

$$y = 0.0030 * x + 6.5925E-004$$

R = 1.0000

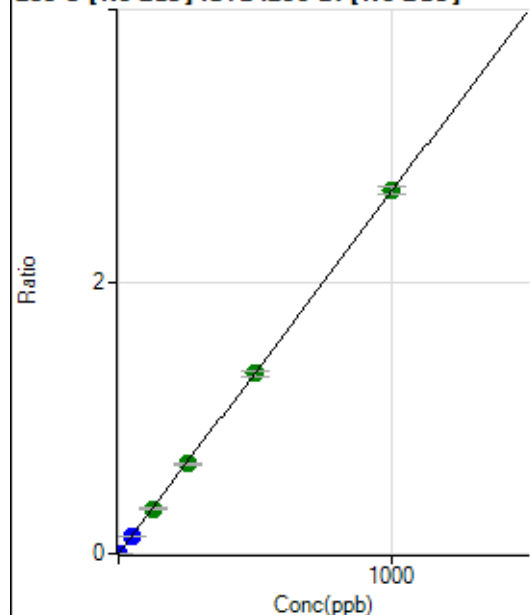
DL = 0.0551

BEC = 0.2208

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	13.89	0.0000	P	61.7
2	☐	1.000	0.909	15387.60	0.0024	P	4.4
3	☐	50.000	45.924	776998.75	0.1224	P	1.3
4	☐	125.000	122.837	2071005.95	0.3274	A	3.6
5	☐	250.000	248.897	4132313.46	0.6634	A	2.3
6	☐	500.000	497.931	8091330.74	1.3272	A	3.0
7	☐	1000.000	1001.784	16085927.27	2.6703	A	2.3
8	☐			930.62	0.0002	P	1.6

$$y = 0.0027 * x + 2.2383E-006$$

$$R = 1.0000$$

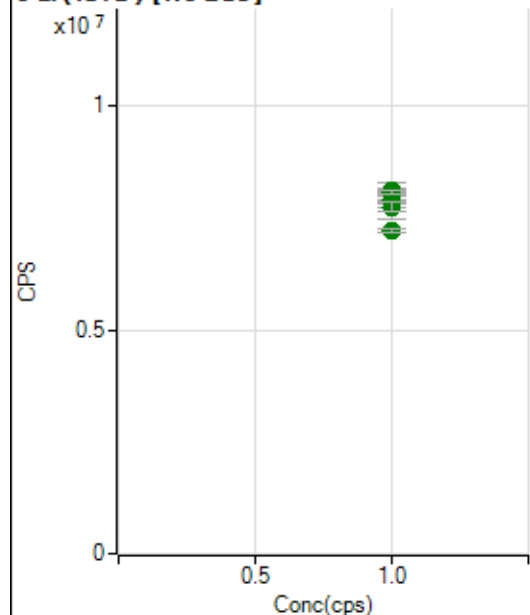
$$DL = 0.001554$$

$$BEC = 0.0008397$$

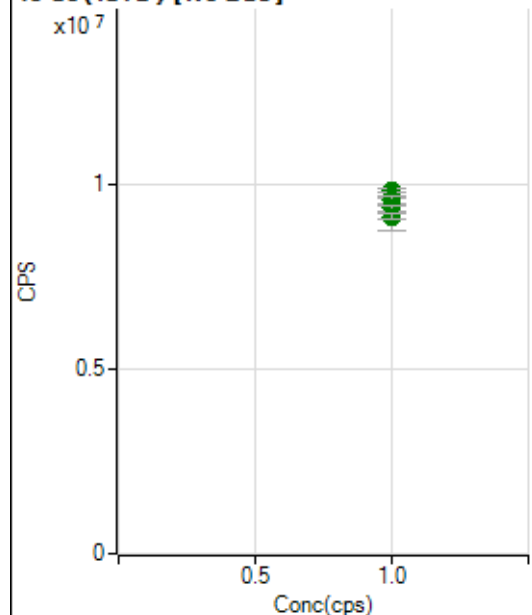
Weight: <None>

Min Conc: 0

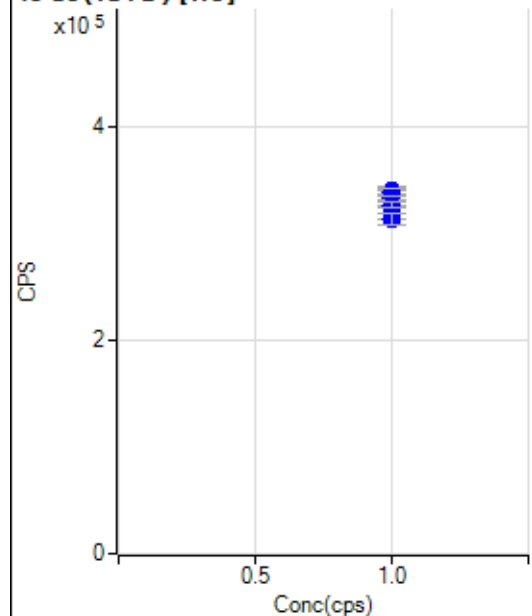
6 Li (ISTD) [No Gas]



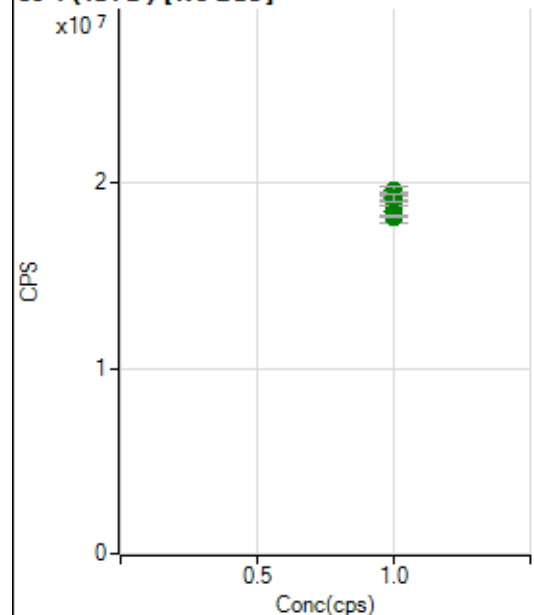
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7878284.50		A	10.6
2	☐	1.000		8030964.01		A	3.0
3	☐	1.000		7901161.48		A	2.4
4	☐	1.000		8101595.13		A	0.4
5	☐	1.000		8069640.84		A	0.8
6	☐	1.000		7742388.46		A	0.2
7	☐	1.000		7741682.56		A	2.9
8	☐	1.000		7214222.71		A	1.5

45 Sc (ISTD) [No Gas]

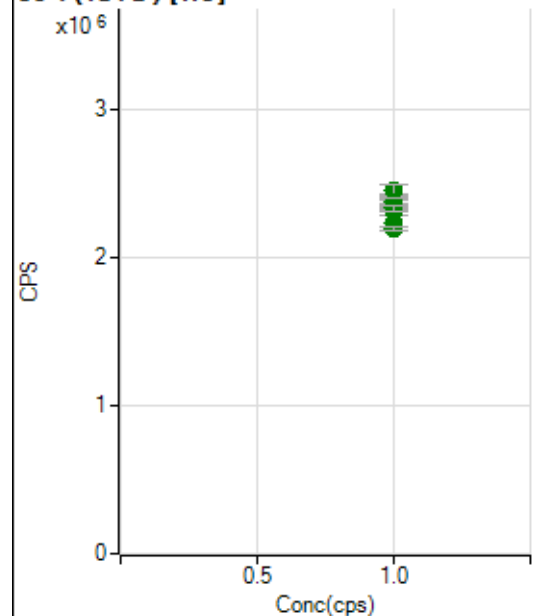
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9130772.36		A	8.0
2	☐	1.000		9699744.16		A	1.9
3	☐	1.000		9819797.08		A	1.0
4	☐	1.000		9664217.71		A	0.7
5	☐	1.000		9695187.63		A	1.3
6	☐	1.000		9555687.36		A	2.1
7	☐	1.000		9348352.36		A	1.8
8	☐	1.000		9119287.29		A	1.9

45 Sc (ISTD) [He]

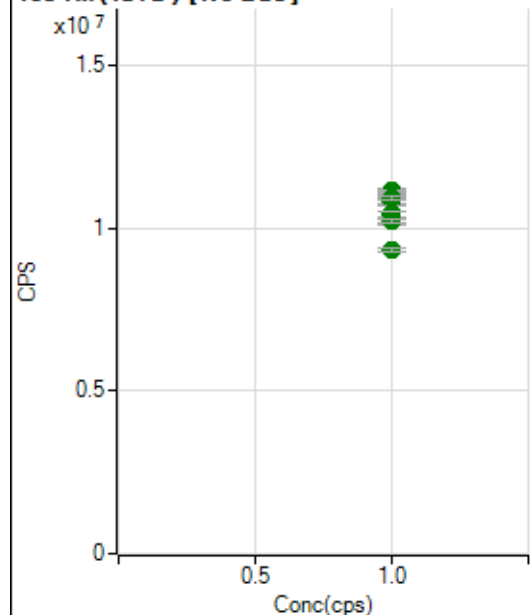
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		339586.87		P	2.1
2	☐	1.000		338557.75		P	1.1
3	☐	1.000		338769.91		P	2.3
4	☐	1.000		319277.90		P	4.0
5	☐	1.000		324952.10		P	0.8
6	☐	1.000		332363.74		P	0.9
7	☐	1.000		326364.26		P	1.5
8	☐	1.000		313210.30		P	2.9

89 Y (ISTD) [No Gas]

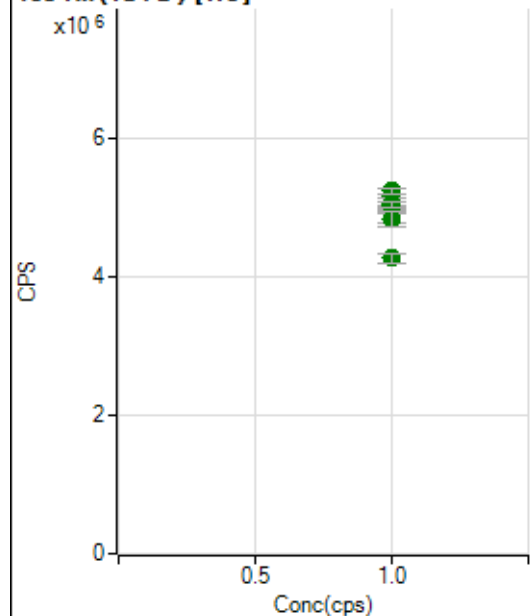
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		18482564.58		A	6.7
2	☐	1.000		19173618.88		A	2.0
3	☐	1.000		19594925.82		A	2.9
4	☐	1.000		19263189.57		A	2.5
5	☐	1.000		19264494.15		A	1.7
6	☐	1.000		19016862.36		A	2.7
7	☐	1.000		19208283.74		A	2.4
8	☐	1.000		18208469.45		A	0.6

89 Y (ISTD) [He]

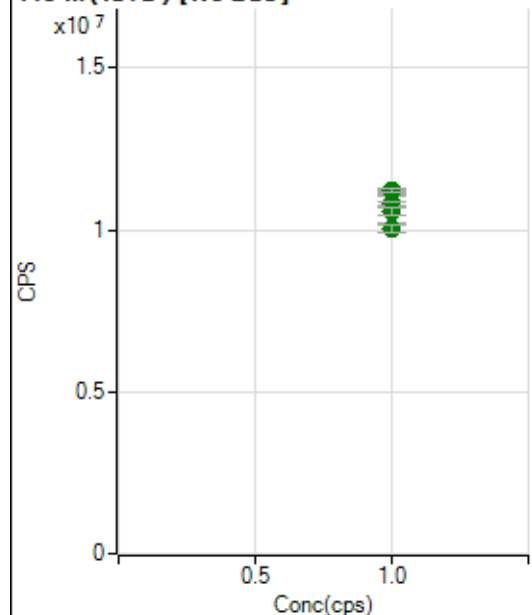
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2388816.63		A	4.1
2	☐	1.000		2369049.48		A	1.5
3	☐	1.000		2453787.72		A	3.1
4	☐	1.000		2234477.07		A	4.4
5	☐	1.000		2321446.41		A	0.7
6	☐	1.000		2385584.89		A	1.3
7	☐	1.000		2336361.58		A	1.5
8	☐	1.000		2201828.35		A	1.4

103 Rh (ISTD) [No Gas]

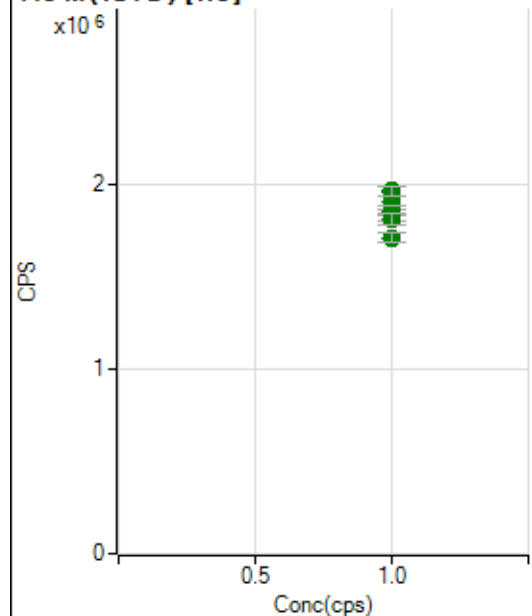
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10434832.87		A	5.8
2	☐	1.000		11146693.65		A	1.4
3	☐	1.000		11126029.15		A	0.8
4	☐	1.000		10814859.36		A	2.5
5	☐	1.000		10940146.60		A	1.3
6	☐	1.000		10424557.87		A	1.4
7	☐	1.000		10219631.13		A	1.1
8	☐	1.000		9314670.61		A	1.1

103 Rh (ISTD) [He]

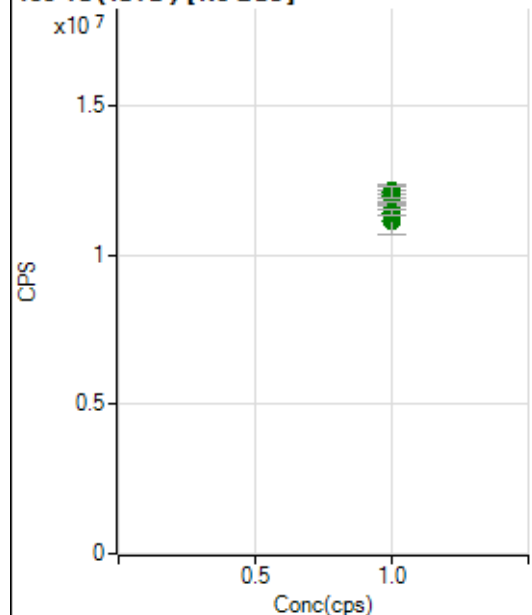
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5151139.61		A	1.3
2	☐	1.000		5037855.65		A	1.2
3	☐	1.000		5231816.00		A	1.9
4	☐	1.000		4838329.58		A	2.6
5	☐	1.000		4932062.88		A	0.8
6	☐	1.000		5031478.85		A	1.7
7	☐	1.000		4825890.90		A	4.2
8	☐	1.000		4258502.44		A	2.9

115 In (ISTD) [No Gas]

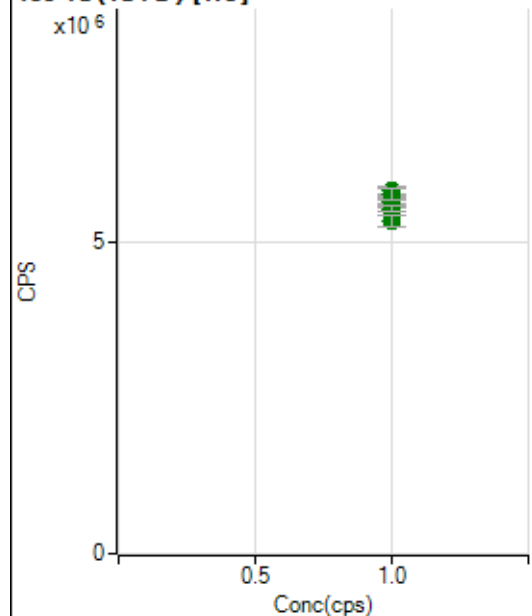
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10665391.06		A	8.6
2	☐	1.000		11135674.48		A	0.9
3	☐	1.000		11174101.35		A	0.5
4	☐	1.000		11143001.15		A	2.0
5	☐	1.000		11202583.00		A	1.0
6	☐	1.000		10811741.95		A	1.3
7	☐	1.000		10568424.16		A	1.8
8	☐	1.000		10017075.35		A	2.5

115 In (ISTD) [He]

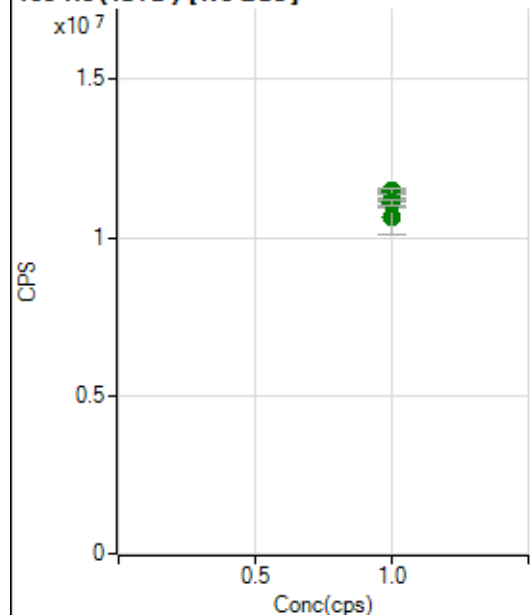
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1963258.60		A	2.8
2	☐	1.000		1914154.25		A	2.8
3	☐	1.000		1968288.92		A	2.7
4	☐	1.000		1840469.44		A	3.5
5	☐	1.000		1855145.86		A	1.7
6	☐	1.000		1891195.28		A	0.2
7	☐	1.000		1816344.00		A	3.6
8	☐	1.000		1716090.91		A	2.8

159 Tb (ISTD) [No Gas]

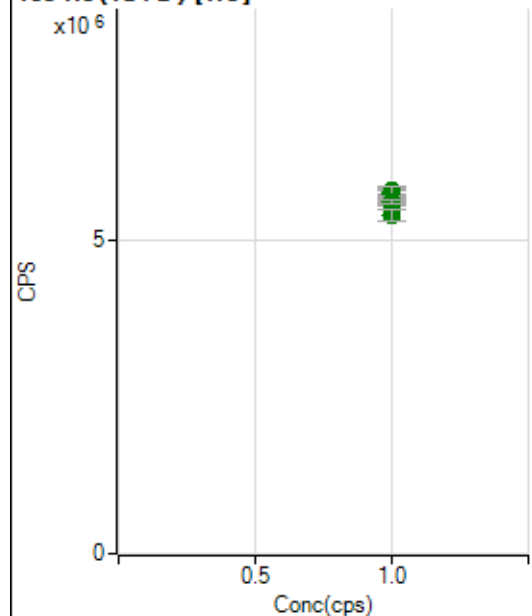
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11164443.79		A	8.3
2	☐	1.000		11745970.24		A	1.1
3	☐	1.000		11690569.41		A	0.4
4	☐	1.000		11981583.57		A	1.0
5	☐	1.000		12151714.40		A	4.0
6	☐	1.000		11985977.46		A	3.5
7	☐	1.000		12100556.35		A	3.2
8	☐	1.000		11432097.47		A	1.5

159 Tb (ISTD) [He]

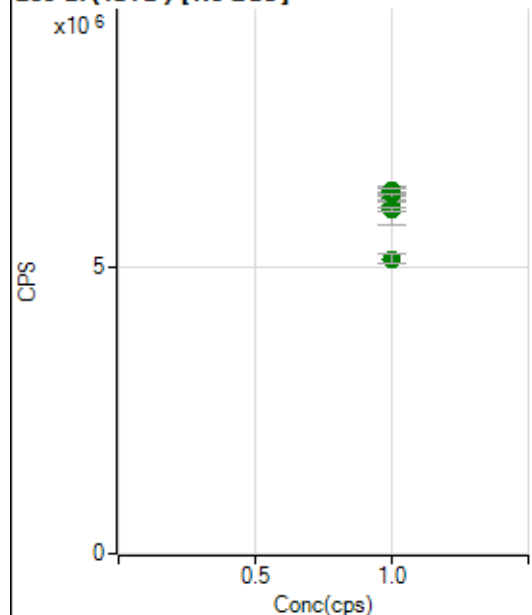
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5805987.13		A	2.9
2	☐	1.000		5716246.65		A	1.5
3	☐	1.000		5670801.72		A	2.4
4	☐	1.000		5511759.50		A	1.5
5	☐	1.000		5630770.54		A	1.9
6	☐	1.000		5759368.04		A	3.0
7	☐	1.000		5516175.47		A	1.7
8	☐	1.000		5329955.09		A	3.3

165 Ho (ISTD) [No Gas]

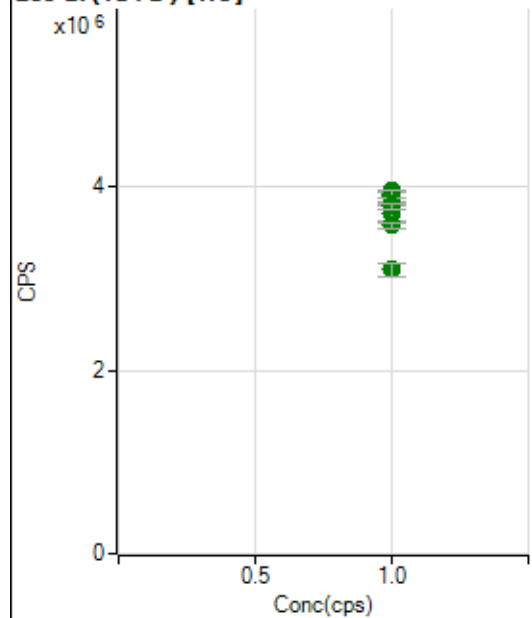
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10612107.10		A	9.5
2	☐	1.000		11083264.48		A	2.7
3	☐	1.000		11463373.87		A	0.4
4	☐	1.000		11393096.52		A	0.5
5	☐	1.000		11460142.10		A	1.9
6	☐	1.000		11407464.32		A	2.3
7	☐	1.000		11471073.26		A	1.8
8	☐	1.000		11098090.44		A	1.9

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5778941.17		A	1.9
2	☐	1.000		5739430.47		A	2.0
3	☐	1.000		5757169.50		A	2.0
4	☐	1.000		5535990.37		A	2.2
5	☐	1.000		5604095.26		A	1.7
6	☐	1.000		5763412.76		A	2.8
7	☐	1.000		5598744.57		A	1.0
8	☐	1.000		5395144.23		A	3.3

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6039740.61		A	9.2
2	☐	1.000		6343503.03		A	2.5
3	☐	1.000		6348330.53		A	1.9
4	☐	1.000		6327281.02		A	1.8
5	☐	1.000		6230085.60		A	1.5
6	☐	1.000		6097749.15		A	1.7
7	☐	1.000		6025121.30		A	1.5
8	☐	1.000		5164682.91		A	3.9

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3887762.41		A	3.0
2	☐	1.000		3951436.74		A	0.6
3	☐	1.000		3914970.64		A	2.2
4	☐	1.000		3709532.06		A	4.4
5	☐	1.000		3809173.07		A	3.5
6	☐	1.000		3784678.41		A	1.5
7	☐	1.000		3574561.54		A	1.8
8	☐	1.000		3094339.57		A	4.9

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP8080922 MS.b

Acq. Date-Time 2022-08-09 12:55:55

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		27950	279495.22			1.598	5.000
24		173976	1739758.95			2.864	5.000
25		23171	231713.52			1.762	5.000
26		26596	265958.36			1.804	5.000
59		38158	381581.99			2.215	5.000
113		15506	155057.02			1.935	5.000
115		46294	462943.82			2.039	5.000
206		15041	150414.14			1.658	5.000
207		12587	125872.69			1.420	5.000
208		31166	311658.07			1.551	5.000
220		1	5.20			45.407	

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

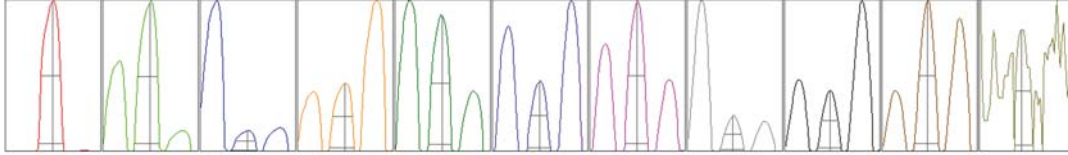
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	27771	28733	27606	27810	27827
24	170441	180847	169456	171530	177606
25	22918	23783	22852	22900	23403
26	26178	27374	26364	26332	26731
59	37051	39380	37971	37972	38417
113	15365	15880	15083	15561	15639
115	45989	47854	45293	46115	46222
206	14672	15224	15085	14931	15295
207	12380	12793	12527	12482	12754
208	30864	31132	30552	31556	31725

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	1	1

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	49067.76	9.00	8.90 - 9.10	
24	290531.80	24.00	23.90 - 24.10	
25	38864.45	25.00	24.90 - 25.10	
26	44821.92	26.00	25.90 - 26.10	
59	69166.68	59.00	58.90 - 59.10	
113	31155.95	113.00	112.90 - 113.10	
115	93419.02	115.00	114.90 - 115.10	
206	29952.39	205.95	205.90 - 206.10	
207	25313.59	206.95	206.90 - 207.10	
208	62942.34	207.95	207.90 - 208.10	
220	0.80	219.85	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.60	0.781	0.900	
24	0.63	0.788	0.900	
25	0.64	0.783	0.900	
26	0.63	0.787	0.900	
59	0.58	0.738	0.900	
113	0.52	0.725	0.900	
115	0.52	0.727	0.900	
206	0.52	0.754	0.900	
207	0.52	0.757	0.900	
208	0.51	0.771	0.900	
220	0.49	0.590		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.87 L/min Dilution Gas 0.40 L/min

US EPA Tune Check Report

RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 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	8.3 V	Deflect	15.4 V
Extract 2	-140.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-85 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	150 V		

QP Parameters

Mass Gain	125	Axis Gain	0.9992	QP Bias	-4.0 V
Mass Offset	124	Axis Offset	0.00		

Hardware Settings

Torch

Torch H	0.5 mm	Torch V	-0.8 mm
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EM

Discriminator	4.5 mV	Analog HV	2302 V	Pulse HV	1638 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		8020	80203.62			1.471	
89		47918	479178.43			1.559	
205		37349	373487.73			0.824	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	7825	8020	8117	8110	8030
89	47144	47566	48615	48815	47449
205	36931	37439	37697	37145	37531

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.87 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 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	8.3 V	Deflect	3.6 V
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US EPA Tune Check Report

Extract 2	-140.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-85 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	125	Axis Gain	0.9992	QP Bias	-13.0 V
Mass Offset	124	Axis Offset	0.00		

Hardware Settings

Torch

Torch H	0.5 mm	Torch V	-0.8 mm
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EM

Discriminator	4.5 mV	Analog HV	2302 V	Pulse HV	1638 V
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