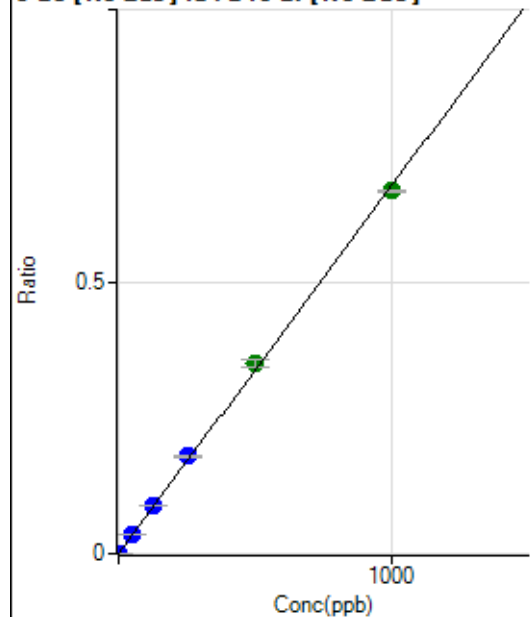


Batch Folder: D:\Agilent\ICPMH\1\DATA\P7070623 MS.b\
Analysis File: P7070623 MS.batch.bin
DA Date-Time: 2023-07-07 00:14:49
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	005CALB.d	S00	2023-07-06 12:07:53
2	006CALS.d	S02	2023-07-06 12:10:57
3	007CALS.d	S03	2023-07-06 12:14:03
4	008CALS.d	S04	2023-07-06 12:16:51
5	009CALS.d	S05	2023-07-06 12:19:39
6	010CALS.d	S06	2023-07-06 12:22:24
7	011CALS.d	S07	2023-07-06 12:25:12
8	012CALS.d	S08	2023-07-06 12:27:57

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



	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	70.00	0.0000	P	25.
2	☐	1.000	1.045	2286.86	0.0007	P	4.3
3	☐	50.000	53.135	112985.45	0.0359	P	0.6
4	☐	125.000	131.698	279025.39	0.0890	P	0.9
5	☐	250.000	265.521	536851.51	0.1794	P	1.1
6	☐	500.000	517.040	1069165.24	0.3494	A	3.7
7	☐	1000.000	986.605	2010181.31	0.6667	A	0.9
8	☐			381.12	0.0001	P	37.

$$y = 6.7572E-004 * x + 2.2513E-005$$

$$R = 0.9996$$

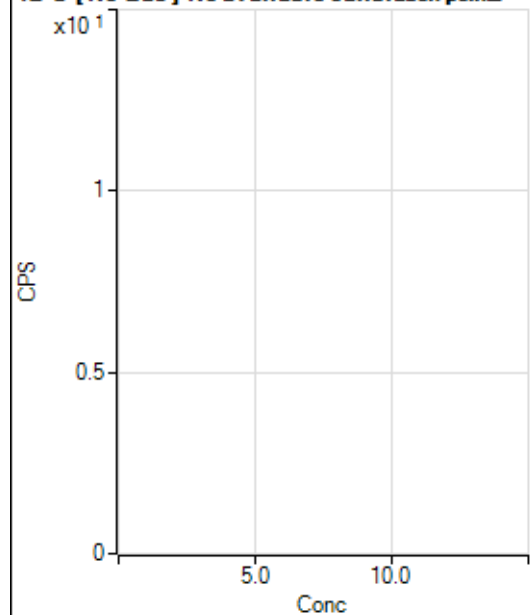
$$DL = 0.02575$$

$$BEC = 0.03332$$

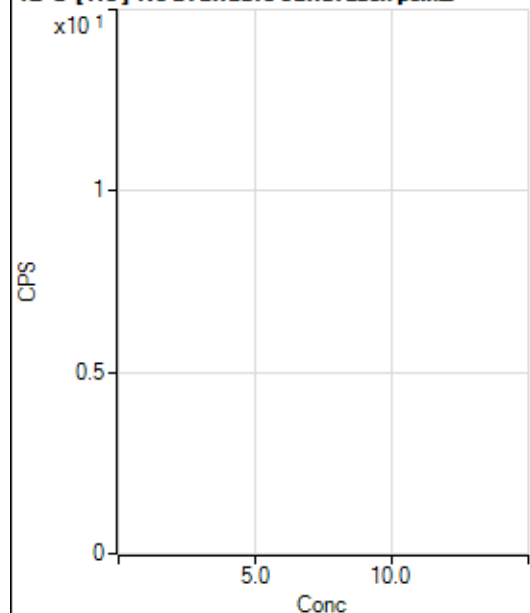
Weight: <None>

Min Conc: 0

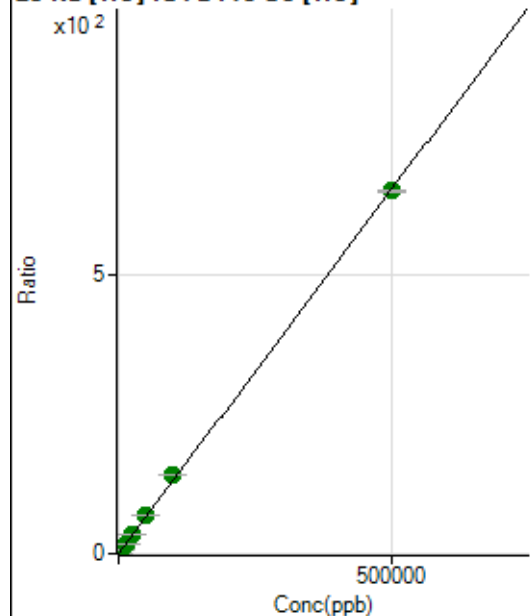
12 C [No Gas] No available calibration points



	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

12 C [He] No available calibration points

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

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

	Rj t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	16253.11	0.0238	P	1.1
2	☐	500.000	525.384	487999.71	0.7121	P	0.2
3	☐	5000.000	5450.891	4844284.86	7.1650	A	0.3
4	☐	12500.000	13402.821	11781644.55	17.5828	A	0.6
5	☐	25000.000	26954.183	22965804.94	35.3363	A	3.5
6	☐	50000.000	53157.041	45510388.21	69.6645	A	2.2
7	☐	100000.00	107462.16	90717633.09	140.8092	A	1.0
8	☐	500000.00	498067.04	407922389.4	652.5378	A	0.5

$$y = 0.0013 * x + 0.0238$$

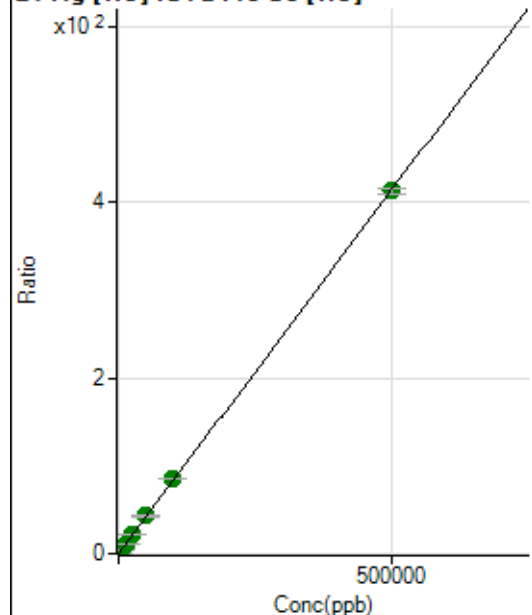
$$R = 0.9999$$

$$DL = 0.5803$$

$$BEC = 18.2$$

Weight: <None>

Min Conc: 0

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

	R _{jt}	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	331.12	0.0005	P	4.9
2	☐	500.000	507.368	288340.72	0.4208	P	0.5
3	☐	5000.000	5356.192	3000095.09	4.4375	A	0.8
4	☐	12500.000	13185.892	7319504.33	10.9235	A	0.9
5	☐	25000.000	26075.911	14041282.57	21.6015	A	2.6
6	☐	50000.000	51835.678	28054900.69	42.9406	A	1.6
7	☐	100000.00	103870.02	55436373.62	86.0453	A	0.8
8	☐	500000.00	498967.91	258363591.7	413.3401	A	1.7

$$y = 8.2839\text{E-}004 * x + 4.8576\text{E-}004$$

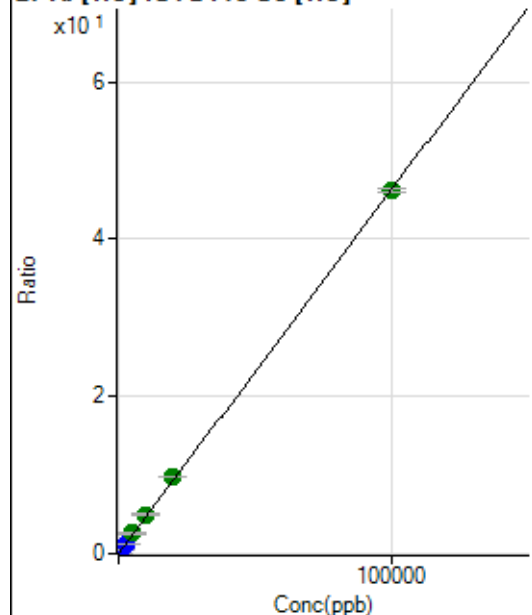
$$R = 1.0000$$

$$DL = 0.08623$$

$$BEC = 0.5864$$

Weight: <None>

Min Conc: 0

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

	R _{jt}	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	624.46	0.0009	P	5.0
2	☐	20.000	20.979	7282.90	0.0106	P	2.5
3	☐	1000.000	1120.541	351327.53	0.5197	P	0.9
4	☐	2500.000	2804.323	870504.98	1.2992	P	1.0
5	☐	5000.000	5576.829	1679036.33	2.5827	A	1.9
6	☐	10000.000	10748.384	3251161.27	4.9768	A	2.4
7	☐	20000.000	21101.865	6294103.31	9.7699	A	1.4
8	☐	100000.00	99667.133	28843082.63	46.1412	A	1.2

$$y = 4.6294\text{E-}004 * x + 9.1630\text{E-}004$$

$$R = 0.9999$$

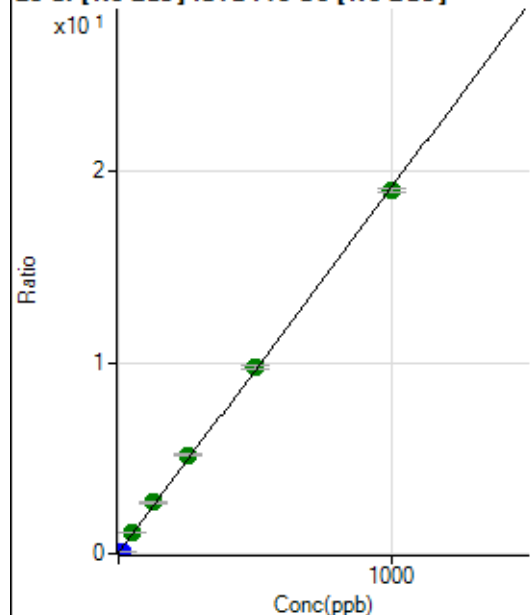
$$DL = 0.2941$$

$$BEC = 1.979$$

Weight: <None>

Min Conc: 0

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



	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	411178.49	0.0691	P	0.5
2	☐	10.000	0.563	478390.73	0.0799	P	0.4
3	☐	50.000	54.803	6581230.53	1.1171	A	2.3
4	☐	125.000	136.430	15310112.97	2.6780	A	0.9
5	☐	250.000	267.656	28592478.19	5.1873	A	1.7
6	☐	500.000	507.519	55294227.51	9.7740	A	2.8
7	☐	1000.000	990.252	105823843.9	19.0049	A	1.0
8	☐			706855.88	0.1280	P	2.9

$$y = 0.0191 * x + 0.0691$$

$$R = 0.9996$$

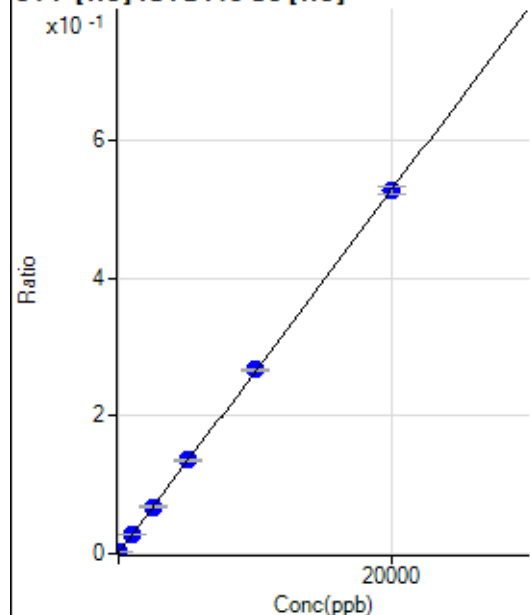
$$DL = 0.05005$$

$$BEC = 3.614$$

Weight: <None>

Min Conc: 0

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



	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-5.731	1232.29	0.0018	P	5.0
2	☐	0.000	5.731	1445.64	0.0021	P	3.0
3	☐	1000.000	1018.326	19434.65	0.0287	P	2.0
4	☐	2500.000	2523.576	45793.93	0.0683	P	1.6
5	☐	5000.000	5089.158	88313.98	0.1358	P	1.5
6	☐	10000.000	10062.809	174227.71	0.2667	P	1.6
7	☐	20000.000	19942.443	339210.75	0.5266	P	2.3
8	☐			1210.06	0.0019	P	1.9

$$y = 2.6307E-005 * x + 0.0020$$

$$R = 1.0000$$

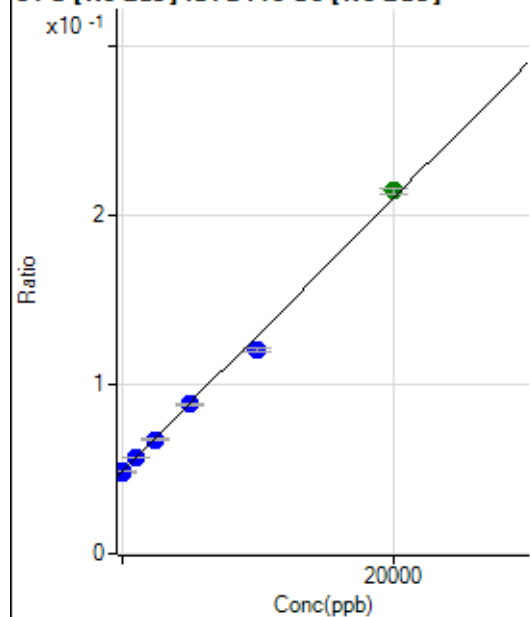
$$DL = 8.799$$

$$BEC = 74.46$$

Weight: <None>

Min Conc: 0

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



	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-54.441	285884.96	0.0481	P	2.1
2	☐	0.000	54.441	293020.88	0.0489	P	1.5
3	☐	1000.000	994.384	332919.13	0.0565	P	0.7
4	☐	2500.000	2346.390	385306.04	0.0674	P	1.0
5	☐	5000.000	4904.605	485101.98	0.0880	P	1.2
6	☐	10000.000	8941.963	681914.96	0.1205	P	2.2
7	☐	20000.000	20572.349	1192814.15	0.2142	A	1.3
8	☐			239966.35	0.0435	P	3.4

$$y = 8.0559E-006 * x + 0.0485$$

R = 0.9979

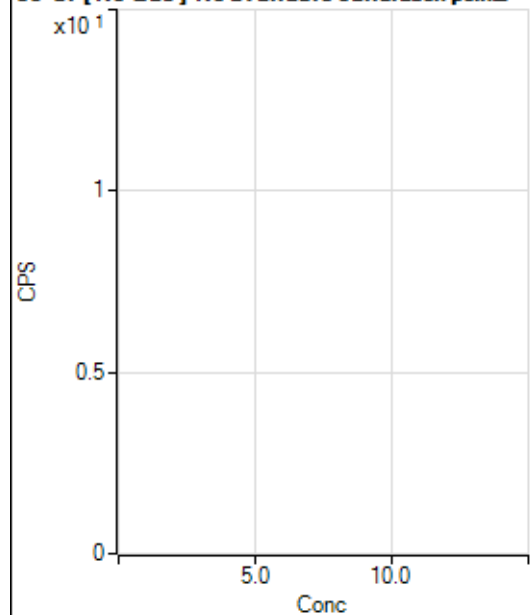
DL = 324.4

BEC = 6020

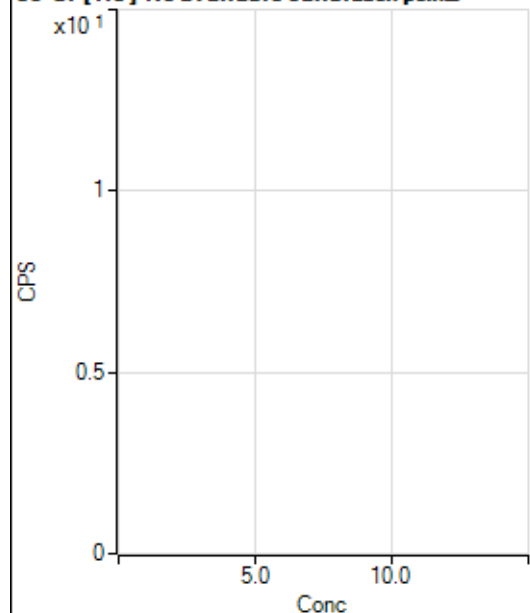
Weight: <None>

Min Conc: 0

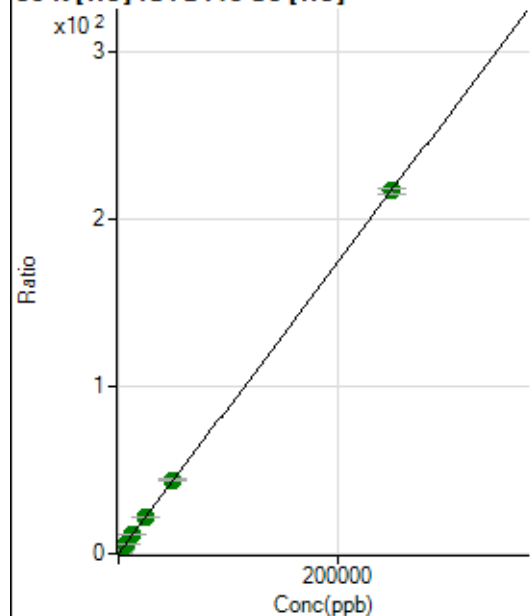
35 Cl [No Gas] No available calibration points



	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

35 Cl [He] No available calibration points

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

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

	Rjc t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	89773.68	0.1317	P	1.4
2	☐	500.000	516.164	397443.20	0.5800	P	0.2
3	☐	2500.000	2689.517	1668011.87	2.4675	A	2.7
4	☐	6250.000	6456.401	3845493.24	5.7390	A	1.6
5	☐	12500.000	12729.161	7271666.07	11.1868	A	2.6
6	☐	25000.000	25228.282	14400916.31	22.0421	A	1.3
7	☐	50000.000	50714.223	28460480.69	44.1762	A	1.1
8	☐	250000.00	249815.78	135701005.7	217.0928	A	1.4

$$y = 8.6848\text{E-}004 * x + 0.1317$$

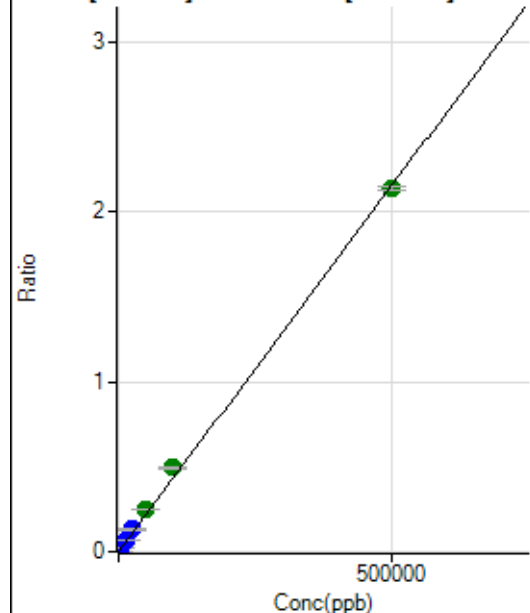
$$R = 1.0000$$

$$DL = 6.449$$

$$BEC = 151.7$$

Weight: <None>

Min Conc: 0

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

	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	268.89	0.0000	P	7.1
2	☐	500.000	510.003	13412.70	0.0022	P	0.8
3	☐	5000.000	6084.455	154509.48	0.0262	P	1.7
4	☐	12500.000	15387.377	378789.20	0.0663	P	1.1
5	☐	25000.000	30511.068	723895.90	0.1313	P	1.9
6	☐	50000.000	57843.673	1408233.52	0.2489	A	3.3
7	☐	100000.00	114426.35	2741799.75	0.4924	A	1.3
8	☐	500000.00	495971.77	11780857.88	2.1341	A	1.0

$$y = 4.3029\text{E-}006 * x + 4.5202\text{E-}005$$

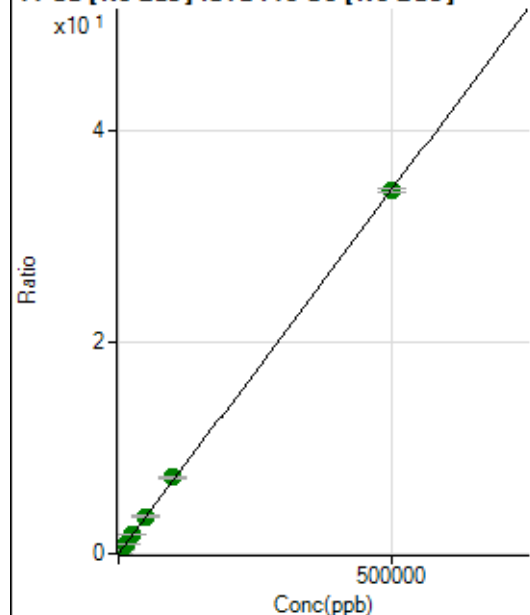
$$R = 0.9995$$

$$DL = 2.225$$

$$BEC = 10.51$$

Weight: <None>

Min Conc: 0

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

	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	17263.93	0.0029	P	1.3
2	☐	500.000	516.760	230009.67	0.0384	P	0.5
3	☐	5000.000	5537.484	2258740.19	0.3834	A	0.5
4	☐	12500.000	13508.425	5322831.87	0.9310	A	0.8
5	☐	25000.000	26731.835	10139491.86	1.8395	A	1.7
6	☐	50000.000	51305.810	19959672.90	3.5279	A	2.4
7	☐	100000.00	104704.57	40072536.07	7.1967	A	1.7
8	☐	500000.00	498811.31	189197437.1	34.2738	A	1.2

$$y = 6.8705\text{E-}005 * x + 0.0029$$

$$R = 1.0000$$

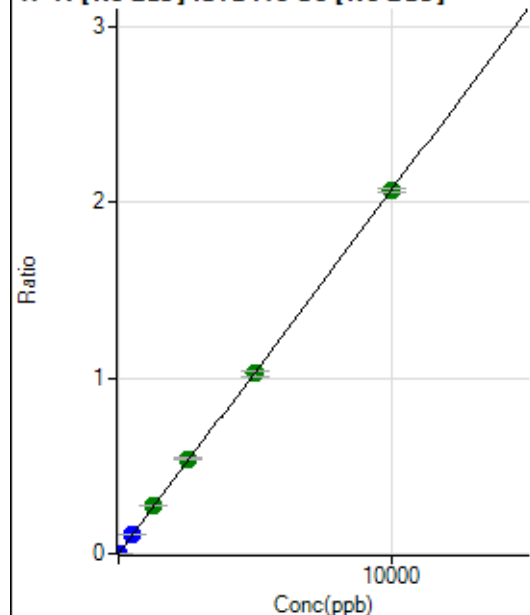
$$DL = 1.674$$

$$BEC = 42.24$$

Weight: <None>

Min Conc: 0

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



	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	96.67	0.0000	P	10.
2	☐	5.000	4.839	6091.29	0.0010	P	1.7
3	☐	500.000	525.726	640707.37	0.1087	P	1.1
4	☐	1250.000	1324.244	1566004.89	0.2739	A	0.8
5	☐	2500.000	2617.514	2984092.42	0.5414	A	1.5
6	☐	5000.000	4959.728	5803292.97	1.0258	A	2.9
7	☐	10000.000	9980.191	11493549.13	2.0641	A	1.0
8	☐			1939.04	0.0004	P	30.

$$y = 2.0682\text{E-}004 * x + 1.6246\text{E-}005$$

$$R = 0.9999$$

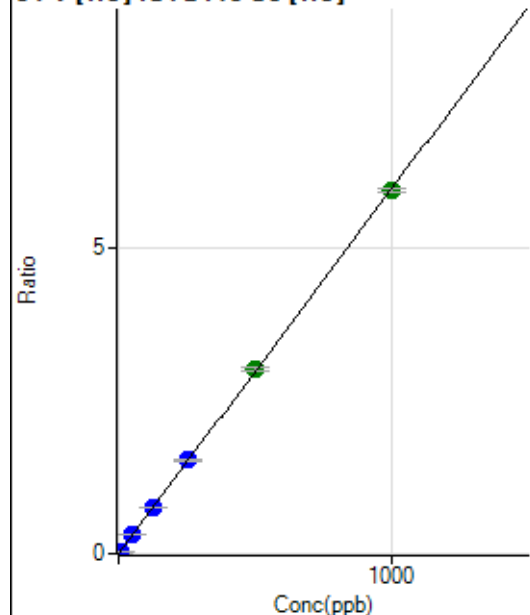
$$DL = 0.02383$$

$$BEC = 0.07855$$

Weight: <None>

Min Conc: 0

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



	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	20.00	0.0000	P	16.
2	☐	5.000	4.813	19640.64	0.0287	P	1.6
3	☐	50.000	51.331	206446.84	0.3054	P	1.4
4	☐	125.000	128.056	510428.89	0.7618	P	1.0
5	☐	250.000	256.733	992827.18	1.5272	P	1.9
6	☐	500.000	505.842	1965849.02	3.0090	A	1.7
7	☐	1000.000	994.948	3813055.95	5.9185	A	1.0
8	☐			1194.50	0.0019	P	8.0

$$y = 0.0059 * x + 2.9339\text{E-}005$$

$$R = 0.9999$$

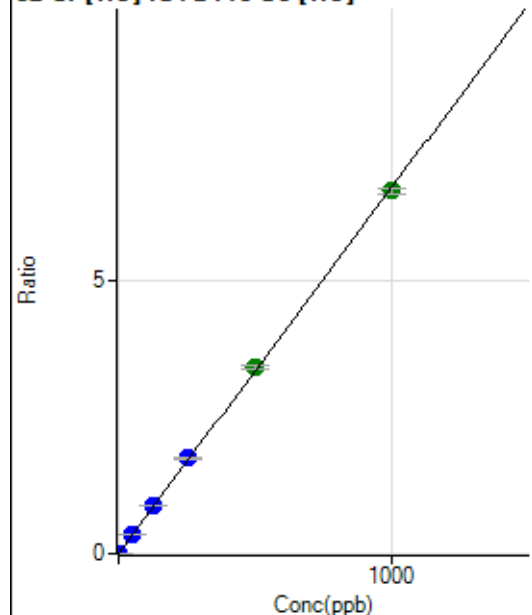
$$DL = 0.002435$$

$$BEC = 0.004932$$

Weight: <None>

Min Conc: 0

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



	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	2311.31	0.0034	P	2.6
2	☐	2.000	2.025	11616.80	0.0170	P	0.4
3	☐	50.000	52.693	240836.62	0.3562	P	0.6
4	☐	125.000	130.952	589827.69	0.8802	P	0.6
5	☐	250.000	261.550	1140606.46	1.7547	P	2.6
6	☐	500.000	509.464	2230950.50	3.4147	A	1.4
7	☐	1000.000	991.502	4279335.60	6.6425	A	1.3
8	☐			25391.46	0.0406	P	2.1

$$y = 0.0067 * x + 0.0034$$

$$R = 0.9999$$

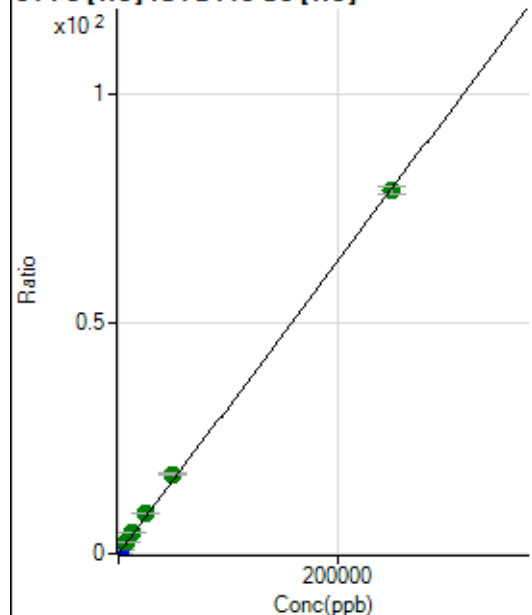
$$DL = 0.03897$$

$$BEC = 0.5065$$

Weight: <None>

Min Conc: 0

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



	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	2722.50	0.0040	P	1.5
2	☐	50.000	57.088	15136.60	0.0221	P	0.7
3	☐	2500.000	3024.712	650884.46	0.9627	P	0.7
4	☐	6250.000	7328.849	1559351.54	2.3270	A	0.5
5	☐	12500.000	14054.485	2898796.48	4.4588	A	1.7
6	☐	25000.000	27498.438	5696695.40	8.7201	A	2.4
7	☐	50000.000	54207.453	11071159.28	17.1861	A	2.0
8	☐	250000.00	248798.72	49294327.60	78.8654	A	2.1

$$y = 3.1697E-004 * x + 0.0040$$

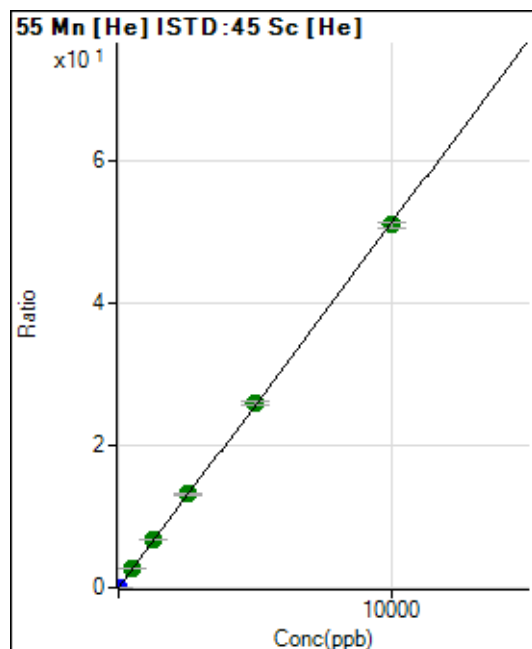
$$R = 0.9998$$

$$DL = 0.5654$$

$$BEC = 12.6$$

Weight: <None>

Min Conc: 0



	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	195.56	0.0003	P	26.
2	☐	1.000	1.070	3960.56	0.0058	P	6.7
3	☐	500.000	540.592	1875853.17	2.7744	A	0.2
4	☐	1250.000	1305.725	4489779.58	6.7009	A	1.9
5	☐	2500.000	2557.466	8531758.06	13.1244	A	2.2
6	☐	5000.000	5061.969	16969782.11	25.9767	A	2.5
7	☐	10000.000	9945.654	32880014.79	51.0383	A	1.5
8	☐			25601.87	0.0410	P	2.5

$$y = 0.0051 * x + 2.8713E-004$$

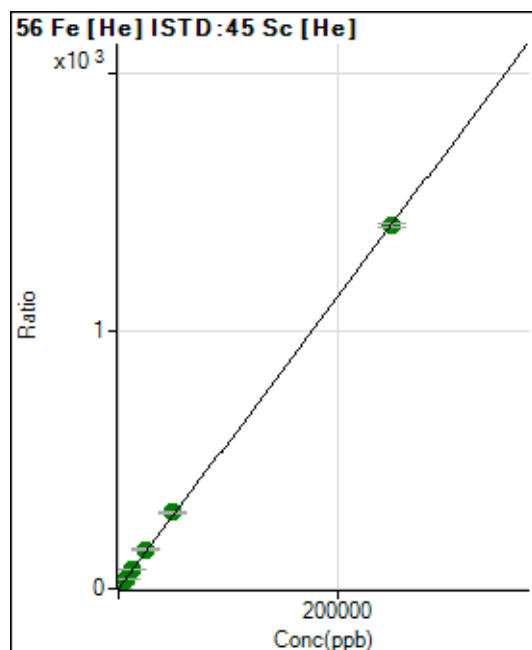
$$R = 0.9999$$

$$DL = 0.04438$$

$$BEC = 0.05595$$

Weight: <None>

Min Conc: 0



	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	16020.92	0.0235	P	0.9
2	☐	50.000	55.699	231682.68	0.3381	P	0.5
3	☐	2500.000	2758.577	10549658.94	15.6045	A	1.3
4	☐	6250.000	6833.706	25879548.78	38.6216	A	0.4
5	☐	12500.000	13634.265	50074380.92	77.0325	A	2.5
6	☐	25000.000	26792.910	98872505.19	151.3551	A	2.6
7	☐	50000.000	52708.610	191794239.3	297.7320	A	2.1
8	☐	250000.00	249205.09	879883844.6	1,407.582	A	1.0

$$y = 0.0056 * x + 0.0235$$

$$R = 0.9999$$

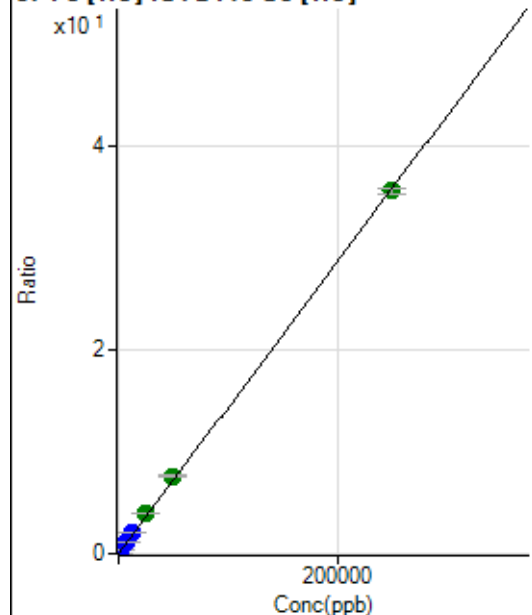
$$DL = 0.1148$$

$$BEC = 4.162$$

Weight: <None>

Min Conc: 0

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



	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1260.07	0.0018	P	2.9
2	☐	50.000	57.021	6843.83	0.0100	P	1.4
3	☐	2500.000	2964.460	287304.86	0.4250	P	0.6
4	☐	6250.000	7400.923	709033.86	1.0582	P	0.7
5	☐	12500.000	14658.077	1361049.50	2.0939	P	2.9
6	☐	25000.000	27525.139	2567800.92	3.9304	A	1.9
7	☐	50000.000	53395.496	4910703.19	7.6228	A	1.7
8	☐	250000.00	248927.06	22208824.39	35.5304	A	1.7

$$y = 1.4273\text{E-}004 * x + 0.0018$$

$$R = 0.9999$$

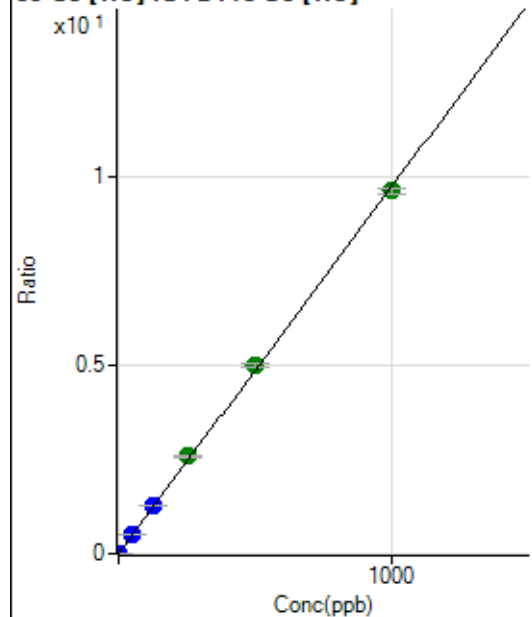
$$DL = 1.135$$

$$BEC = 12.95$$

Weight: <None>

Min Conc: 0

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



	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	75.56	0.0001	P	28.
2	☐	1.000	1.008	6783.82	0.0099	P	0.7
3	☐	50.000	53.689	352567.11	0.5215	P	0.7
4	☐	125.000	133.304	867500.75	1.2946	P	0.5
5	☐	250.000	265.081	1673722.75	2.5743	A	1.3
6	☐	500.000	512.069	3248836.69	4.9729	A	1.9
7	☐	1000.000	988.973	6186945.74	9.6041	A	1.9
8	☐			18413.61	0.0295	P	2.0

$$y = 0.0097 * x + 1.1085\text{E-}004$$

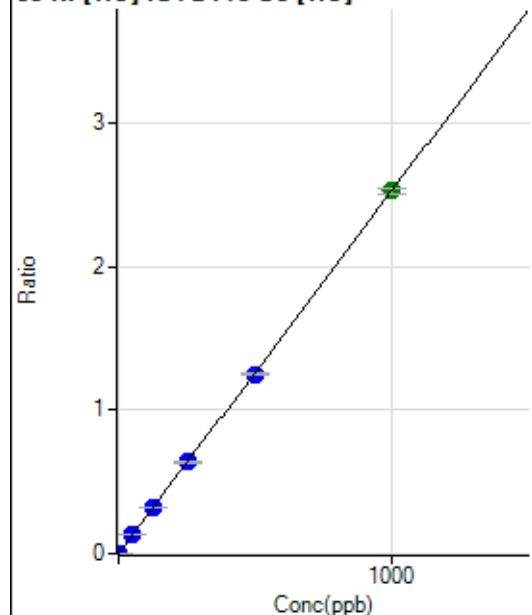
$$R = 0.9998$$

$$DL = 0.00968$$

$$BEC = 0.01141$$

Weight: <None>

Min Conc: 0

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

	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	592.24	0.0009	P	2.4
2	☐	1.000	0.748	1890.14	0.0028	P	4.2
3	☐	50.000	51.107	87835.40	0.1299	P	0.1
4	☐	125.000	127.736	216703.27	0.3234	P	0.6
5	☐	250.000	253.659	416900.19	0.6414	P	2.5
6	☐	500.000	495.213	817473.89	1.2513	P	1.6
7	☐	1000.000	1001.082	1628936.05	2.5286	A	1.7
8	☐			8369.08	0.0134	P	1.8

$$y = 0.0025 * x + 8.6894E-004$$

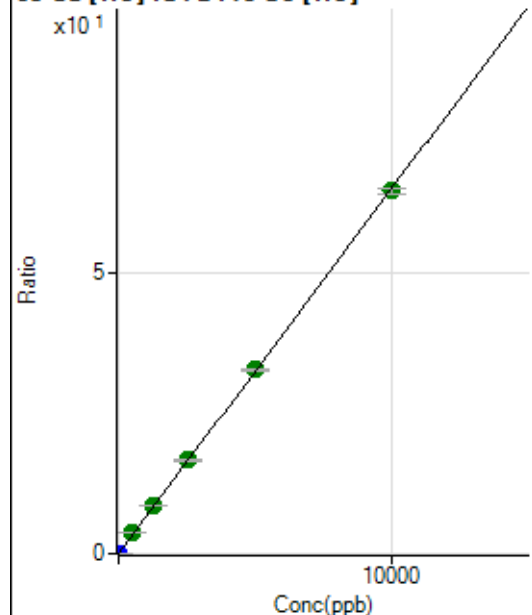
$$R = 1.0000$$

$$DL = 0.02485$$

$$BEC = 0.3441$$

Weight: <None>

Min Conc: 0

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

	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	2722.50	0.0040	P	1.2
2	☐	2.000	1.790	10681.66	0.0156	P	0.3
3	☐	500.000	554.086	2429468.04	3.5934	A	0.4
4	☐	1250.000	1325.396	5756029.98	8.5900	A	0.5
5	☐	2500.000	2575.421	10847752.48	16.6877	A	2.4
6	☐	5000.000	5053.609	21391898.01	32.7416	A	1.2
7	☐	10000.000	9942.211	41494617.72	64.4103	A	1.5
8	☐			33048.75	0.0529	P	1.8

$$y = 0.0065 * x + 0.0040$$

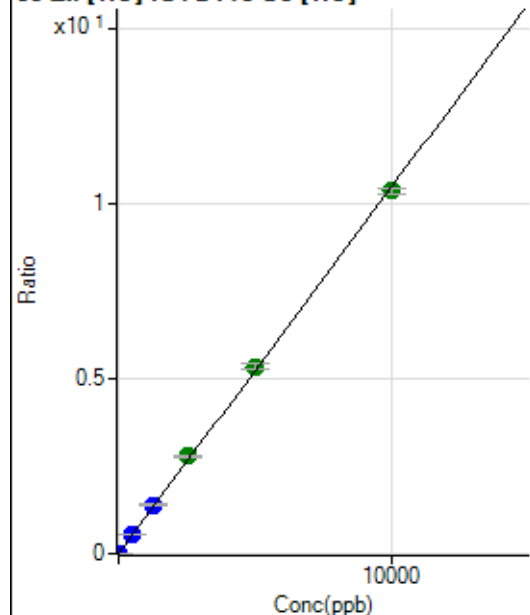
$$R = 0.9999$$

$$DL = 0.02224$$

$$BEC = 0.6166$$

Weight: <None>

Min Conc: 0

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

	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	545.57	0.0008	P	7.3
2	☐	2.000	2.304	2203.52	0.0032	P	2.9
3	☐	500.000	534.380	379246.98	0.5610	P	0.8
4	☐	1250.000	1331.793	935957.67	1.3968	P	0.8
5	☐	2500.000	2658.421	1811964.52	2.7874	A	2.3
6	☐	5000.000	5106.071	3496936.58	5.3531	A	2.5
7	☐	10000.000	9895.416	6682687.26	10.3734	A	1.7
8	☐			8201.21	0.0131	P	0.6

$$y = 0.0010 * x + 8.0065E-004$$

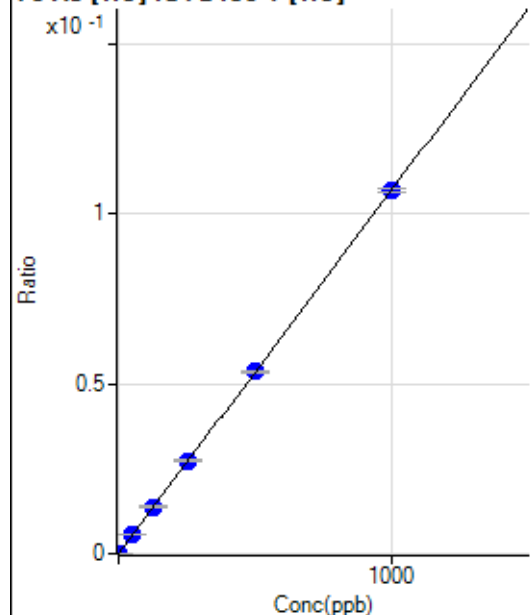
$$R = 0.9998$$

$$DL = 0.1671$$

$$BEC = 0.7638$$

Weight: <None>

Min Conc: 0

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

	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	10.00	0.0000	P	33.
2	☐	1.000	1.017	523.35	0.0001	P	12.
3	☐	50.000	50.838	25090.12	0.0054	P	2.0
4	☐	125.000	129.135	62398.28	0.0138	P	1.8
5	☐	250.000	255.295	120466.28	0.0273	P	2.8
6	☐	500.000	499.953	239340.84	0.0535	P	1.5
7	☐	1000.000	998.141	475859.29	0.1068	P	1.1
8	☐			160.00	0.0000	P	23.

$$y = 1.0697E-004 * x + 2.1340E-006$$

$$R = 1.0000$$

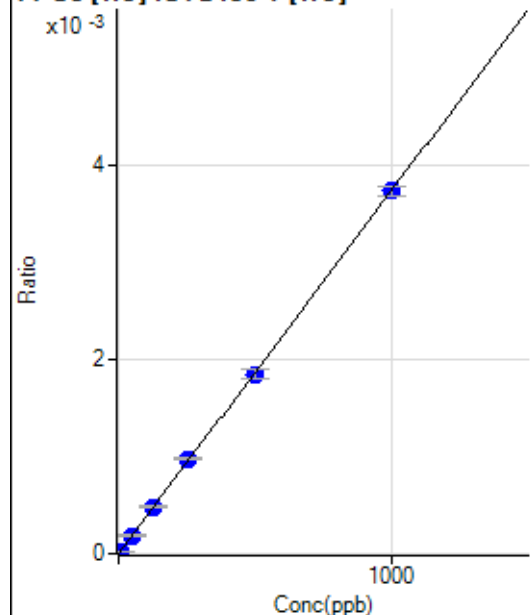
$$DL = 0.01978$$

$$BEC = 0.01995$$

Weight: <None>

Min Conc: 0

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



	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	4.465	78.89	0.0000	P	48.
3	☐	50.000	49.974	860.03	0.0002	P	6.0
4	☐	125.000	128.695	2170.18	0.0005	P	5.5
5	☐	250.000	262.148	4317.33	0.0010	P	4.0
6	☐	500.000	494.282	8256.82	0.0018	P	4.8
7	☐	1000.000	999.364	16631.65	0.0037	P	2.5
8	☐			102.22	0.0000	P	4.2

$$y = 3.7343\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9999$$

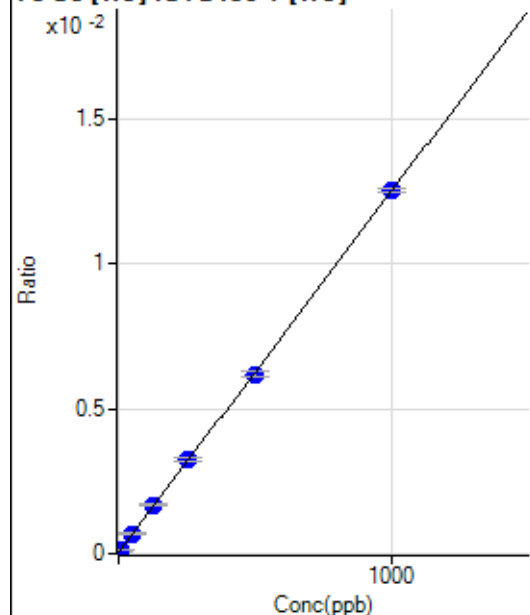
$$DL = 0$$

$$BEC = 0$$

Weight: <None>

Min Conc: 0

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



	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	228.89	0.0000	P	9.1
2	☐	5.000	5.055	527.79	0.0001	P	1.3
3	☐	50.000	50.911	3145.92	0.0007	P	5.4
4	☐	125.000	130.209	7538.67	0.0017	P	4.1
5	☐	250.000	256.439	14292.54	0.0032	P	3.7
6	☐	500.000	493.888	27720.41	0.0062	P	3.4
7	☐	1000.000	1000.749	55727.65	0.0125	P	1.0
8	☐			512.24	0.0001	P	11.

$$y = 1.2446\text{E-}005 * x + 4.8870\text{E-}005$$

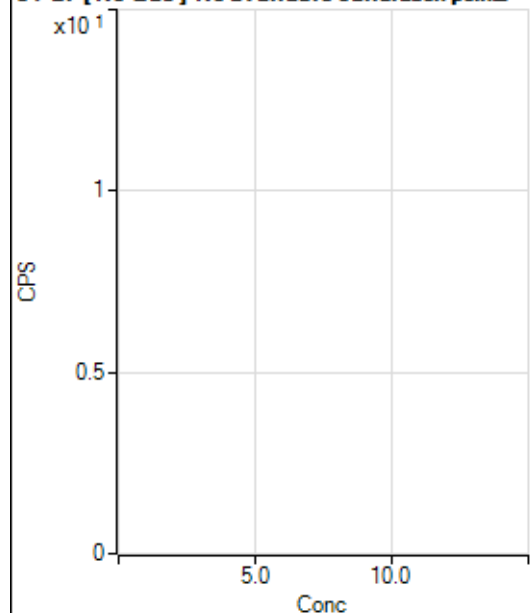
$$R = 0.9999$$

$$DL = 1.075$$

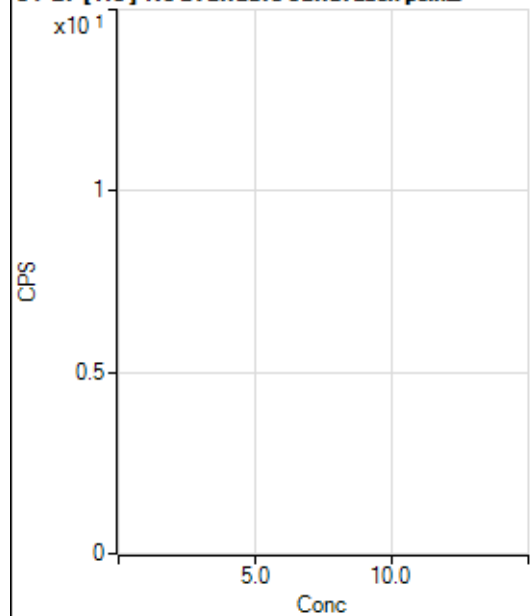
$$BEC = 3.927$$

Weight: <None>

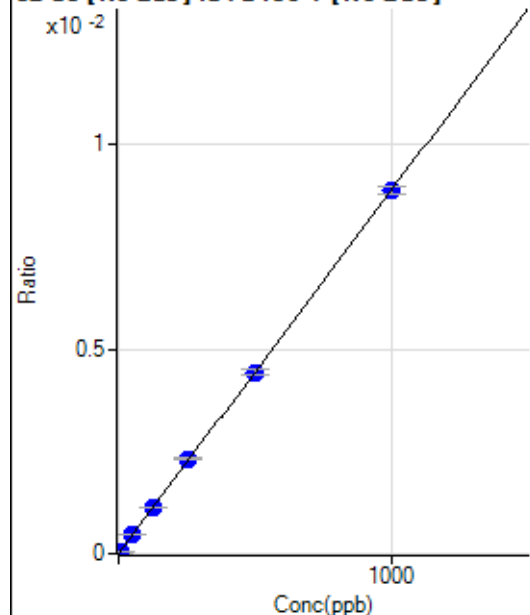
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rjc t	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			15382.60		P	3.1
2	☐			15094.50		P	1.8
3	☐			14927.69		P	3.6
4	☐			14229.19		P	1.0
5	☐			13988.98		P	1.2
6	☐			13829.90		P	1.3
7	☐			14100.17		P	2.1
8	☐			17715.18		P	5.0

81 Br [He] No available calibration points

	Rjc t	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			146.67		P	9.1
2	☐			97.78		P	21.
3	☐			92.22		P	15.
4	☐			74.44		P	11.
5	☐			71.11		P	5.4
6	☐			80.00		P	7.2
7	☐			104.44		P	14.
8	☐			1064.50		P	9.5

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

	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	104.65	0.0000	P	16.
2	☐	5.000	4.694	784.06	0.0000	P	6.8
3	☐	50.000	51.664	7386.52	0.0005	P	1.6
4	☐	125.000	127.463	17986.89	0.0011	P	1.3
5	☐	250.000	261.135	35215.36	0.0023	P	1.4
6	☐	500.000	497.933	69667.42	0.0044	P	2.9
7	☐	1000.000	997.860	138490.44	0.0089	P	2.2
8	☐			875.51	0.0001	P	5.6

$$y = 8.8738E-006 * x + 6.5389E-006$$

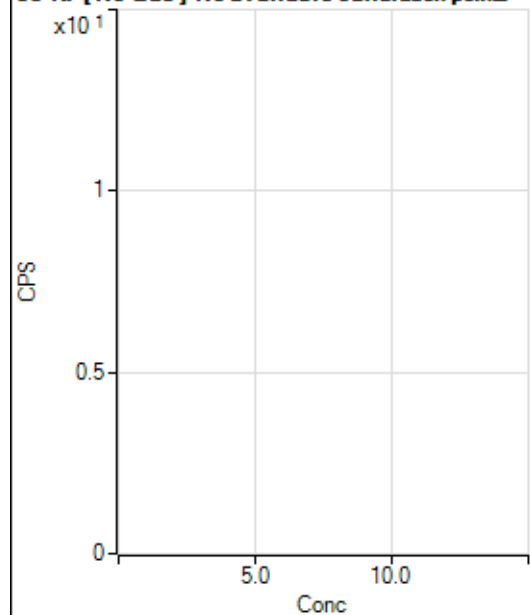
$$R = 0.9999$$

$$DL = 0.3667$$

$$BEC = 0.7369$$

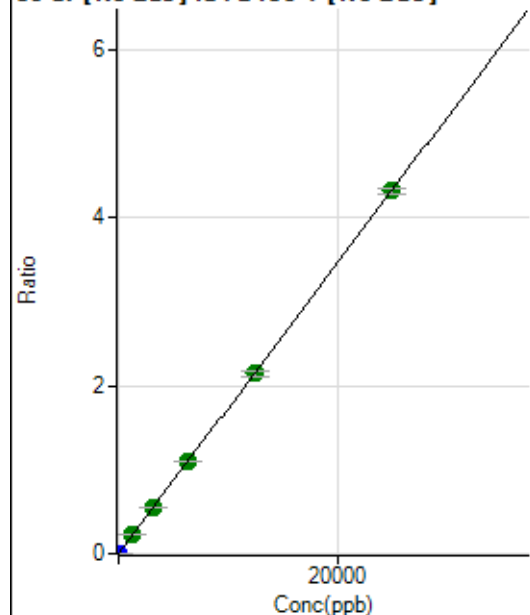
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			178.89		P	16.
2	☐			204.45		P	9.0
3	☐			194.45		P	5.2
4	☐			174.45		P	7.2
5	☐			188.89		P	5.4
6	☐			184.45		P	8.5
7	☐			206.67		P	15.
8	☐			253.34		P	16.

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



	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	414.45	0.0000	P	4.0
2	☐	1.000	0.960	3117.03	0.0002	P	5.5
3	☐	1250.000	1307.120	3582759.70	0.2255	A	1.1
4	☐	3125.000	3189.871	8701527.86	0.5504	A	1.2
5	☐	6250.000	6380.489	16682178.22	1.1008	A	1.3
6	☐	12500.000	12410.362	33709048.11	2.1412	A	3.1
7	☐	25000.000	25001.232	67416226.77	4.3135	A	1.7
8	☐			11681.71	0.0008	P	31.

$$y = 1.7253E-004 * x + 2.5865E-005$$

$$R = 1.0000$$

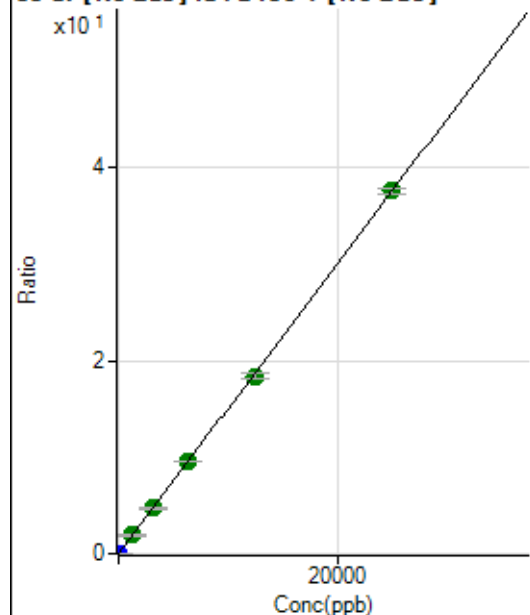
$$DL = 0.0181$$

$$BEC = 0.1499$$

Weight: <None>

Min Conc: 0

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



	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	606.69	0.0000	P	11.
2	☐	1.000	0.981	24538.29	0.0015	P	1.0
3	☐	1250.000	1267.385	30164860.38	1.8989	A	0.8
4	☐	3125.000	3136.463	74297877.23	4.6993	A	1.7
5	☐	6250.000	6361.699	144454152.2	9.5316	A	0.7
6	☐	12500.000	12279.709	289671184.5	18.3984	A	2.5
7	☐	25000.000	25079.919	587292649.0	37.5766	A	1.8
8	☐			99664.04	0.0068	P	30.

$$y = 0.0015 * x + 3.7894E-005$$

$$R = 0.9999$$

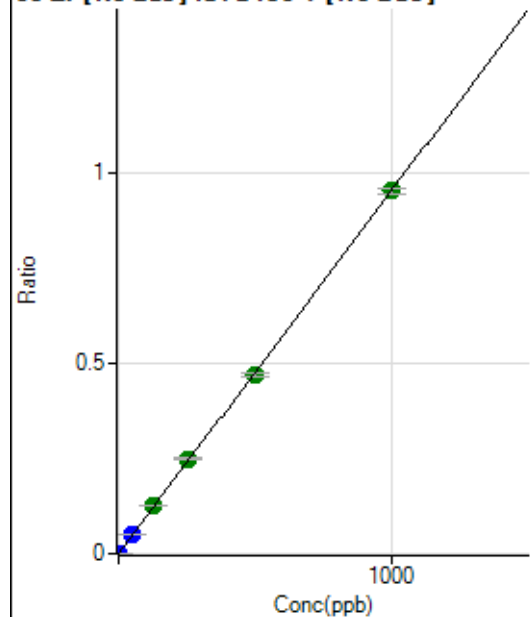
$$DL = 0.008677$$

$$BEC = 0.02529$$

Weight: <None>

Min Conc: 0

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



	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	591.13	0.0000	P	4.4
2	☐	1.000	0.910	14679.66	0.0009	P	1.4
3	☐	50.000	52.482	793569.25	0.0500	P	0.7
4	☐	125.000	131.686	1980976.53	0.1253	A	0.3
5	☐	250.000	261.003	3762456.68	0.2483	A	1.8
6	☐	500.000	493.208	7386595.72	0.4692	A	2.5
7	☐	1000.000	999.686	14862251.58	0.9509	A	1.5
8	☐			7287.44	0.0005	P	11.

$$y = 9.5117\text{E-}004 * x + 3.6906\text{E-}005$$

$$R = 0.9999$$

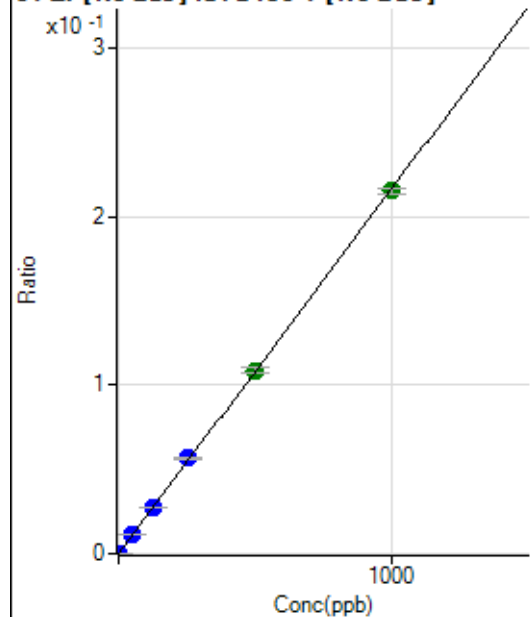
$$DL = 0.005133$$

$$BEC = 0.0388$$

Weight: <None>

Min Conc: 0

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



	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	85.56	0.0000	P	25.
2	☐	1.000	0.884	3200.38	0.0002	P	1.5
3	☐	50.000	51.301	176506.52	0.0111	P	1.3
4	☐	125.000	128.571	440166.10	0.0278	P	0.4
5	☐	250.000	261.885	859245.48	0.0567	P	1.4
6	☐	500.000	503.097	1714862.54	0.1089	A	2.5
7	☐	1000.000	994.969	3366585.19	0.2154	A	1.8
8	☐			1663.44	0.0001	P	12.

$$y = 2.1649\text{E-}004 * x + 5.3469\text{E-}006$$

$$R = 0.9999$$

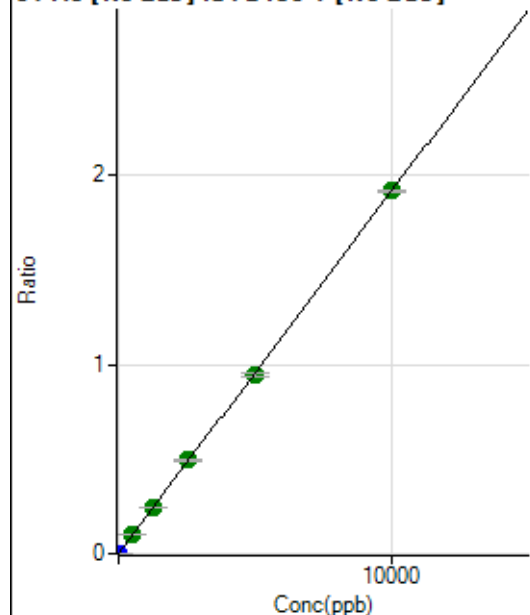
$$DL = 0.01919$$

$$BEC = 0.0247$$

Weight: <None>

Min Conc: 0

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



	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	213.34	0.0000	P	3.3
2	☐	5.000	5.467	17276.94	0.0011	P	1.8
3	☐	500.000	539.317	1643776.14	0.1035	A	0.7
4	☐	1250.000	1290.780	3915218.83	0.2476	A	1.2
5	☐	2500.000	2583.983	7512783.64	0.4957	A	1.0
6	☐	5000.000	4926.707	14880560.89	0.9452	A	2.9
7	☐	10000.000	10008.587	30012239.83	1.9201	A	0.8
8	☐			9125.22	0.0006	P	18.

$$y = 1.9184\text{E-}004 * x + 1.3313\text{E-}005$$

$$R = 0.9999$$

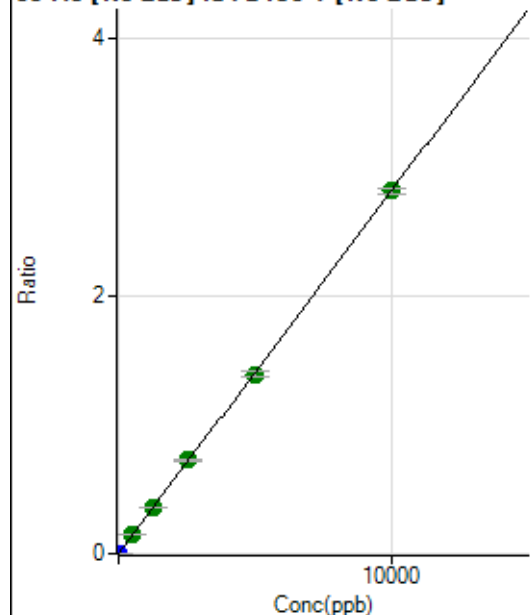
$$DL = 0.006961$$

$$BEC = 0.0694$$

Weight: <None>

Min Conc: 0

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



	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	40.00	0.0000	P	8.9
2	☐	5.000	4.736	21751.84	0.0013	P	0.1
3	☐	500.000	530.313	2373736.36	0.1494	A	1.1
4	☐	1250.000	1282.648	5714122.14	0.3614	A	0.7
5	☐	2500.000	2581.433	11022843.03	0.7274	A	1.4
6	☐	5000.000	4952.476	21971116.89	1.3955	A	2.3
7	☐	10000.000	9997.807	44029376.01	2.8171	A	1.6
8	☐			11102.22	0.0008	P	21.

$$y = 2.8177\text{E-}004 * x + 2.4976\text{E-}006$$

$$R = 0.9999$$

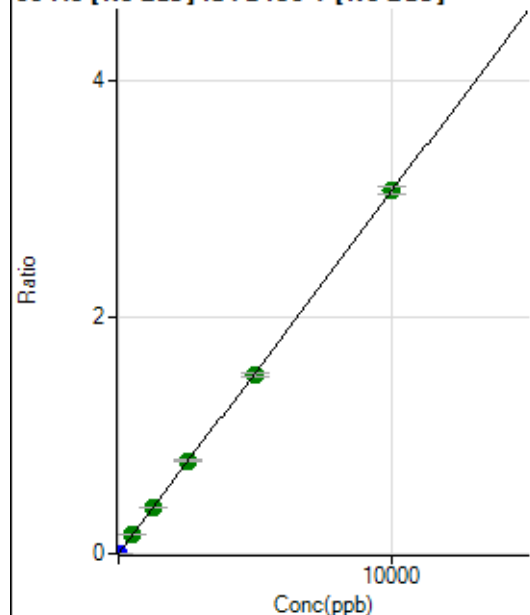
$$DL = 0.002366$$

$$BEC = 0.008864$$

Weight: <None>

Min Conc: 0

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



	R _{jt}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	81.11	0.0000	P	29.
2	☐	5.000	4.847	24198.97	0.0015	P	1.4
3	☐	500.000	530.706	2578412.71	0.1623	A	0.7
4	☐	1250.000	1270.814	6145046.57	0.3887	A	1.0
5	☐	2500.000	2571.028	11916134.96	0.7863	A	1.1
6	☐	5000.000	4925.380	23716493.81	1.5064	A	2.5
7	☐	10000.000	10015.416	47871506.51	3.0631	A	2.2
8	☐			20618.12	0.0014	P	10.

$$y = 3.0583\text{E-}004 * x + 5.0717\text{E-}006$$

$$R = 0.9999$$

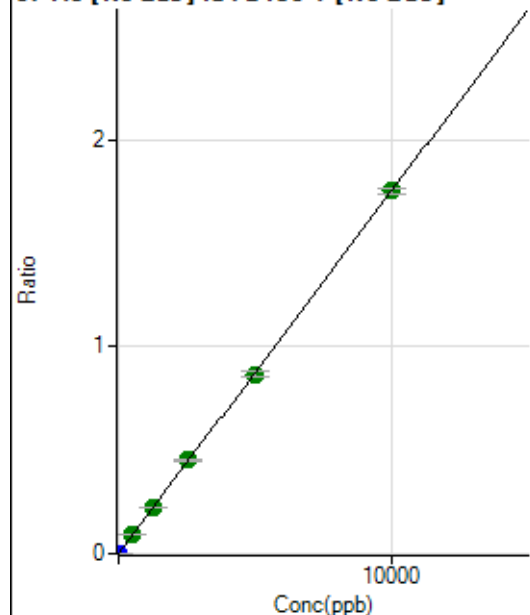
$$DL = 0.0144$$

$$BEC = 0.01658$$

Weight: <None>

Min Conc: 0

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



	R _{jt}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	32.22	0.0000	P	11.
2	☐	5.000	4.722	13496.30	0.0008	P	2.5
3	☐	500.000	539.939	1503571.42	0.0947	A	0.8
4	☐	1250.000	1276.143	3537015.75	0.2237	A	1.0
5	☐	2500.000	2574.873	6840209.62	0.4514	A	1.1
6	☐	5000.000	4946.802	13652157.85	0.8672	A	3.0
7	☐	10000.000	10002.616	27405019.87	1.7534	A	1.6
8	☐			6978.45	0.0005	P	20.

$$y = 1.7530\text{E-}004 * x + 2.0099\text{E-}006$$

$$R = 0.9999$$

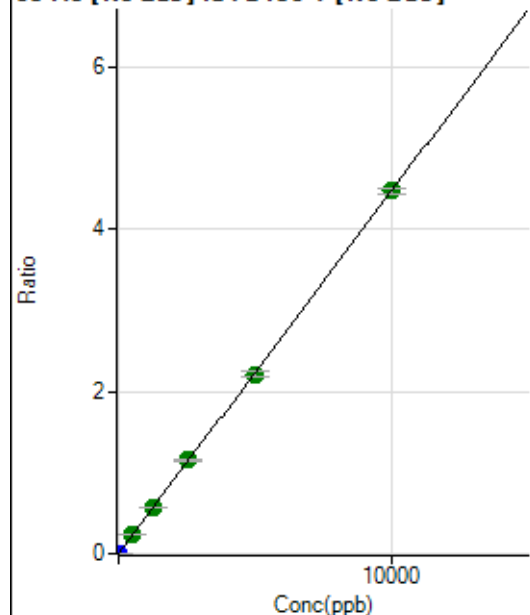
$$DL = 0.003778$$

$$BEC = 0.01147$$

Weight: <None>

Min Conc: 0

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



	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	58.89	0.0000	P	20.
2	☐	5.000	4.753	34645.54	0.0021	P	0.5
3	☐	500.000	521.210	3703440.16	0.2331	A	1.5
4	☐	1250.000	1262.692	8929764.45	0.5648	A	0.6
5	☐	2500.000	2574.847	17452584.60	1.1517	A	1.5
6	☐	5000.000	4955.866	34898661.70	2.2167	A	3.2
7	☐	10000.000	10000.708	69915411.18	4.4733	A	1.5
8	☐			16983.60	0.0012	P	20.

$$y = 4.4729\text{E-}004 * x + 3.6705\text{E-}006$$

$$R = 1.0000$$

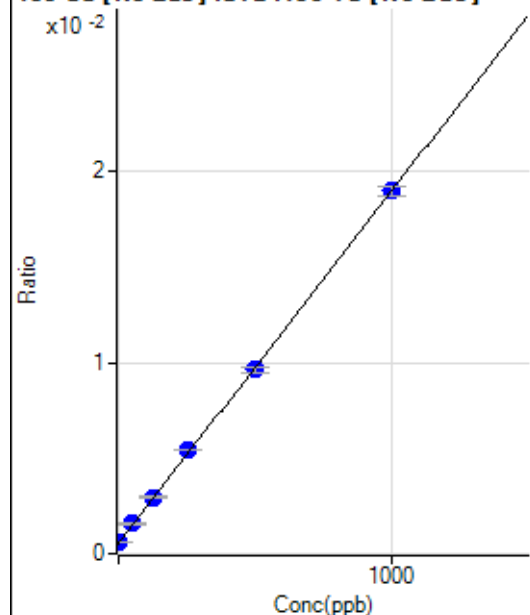
$$DL = 0.00502$$

$$BEC = 0.008206$$

Weight: <None>

Min Conc: 0

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



	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	7136.25	0.0006	P	0.9
2	☐	1.000	1.656	7547.59	0.0006	P	2.8
3	☐	50.000	53.859	19416.40	0.0016	P	1.1
4	☐	125.000	129.971	36867.84	0.0030	P	0.3
5	☐	250.000	263.917	65196.56	0.0054	P	1.7
6	☐	500.000	490.966	120648.35	0.0096	P	3.0
7	☐	1000.000	1000.223	233630.07	0.0190	P	2.6
8	☐			6702.72	0.0006	P	2.3

$$y = 1.8405\text{E-}005 * x + 5.7544\text{E-}004$$

$$R = 0.9998$$

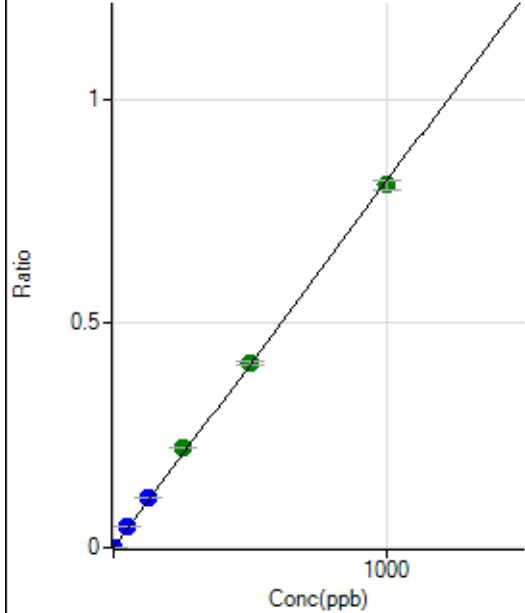
$$DL = 0.8568$$

$$BEC = 31.27$$

Weight: <None>

Min Conc: 0

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



	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	82.22	0.0000	P	19.
2	☐	1.000	1.015	10412.73	0.0008	P	4.7
3	☐	50.000	55.785	565046.82	0.0456	P	1.0
4	☐	125.000	136.859	1389497.85	0.1118	P	0.4
5	☐	250.000	272.979	2676851.50	0.2231	A	0.8
6	☐	500.000	504.921	5179304.23	0.4126	A	2.5
7	☐	1000.000	990.023	9956016.24	0.8090	A	2.6
8	☐			2716.95	0.0002	P	16.

$$y = 8.1717\text{E-}004 * x + 6.6385\text{E-}006$$

$$R = 0.9997$$

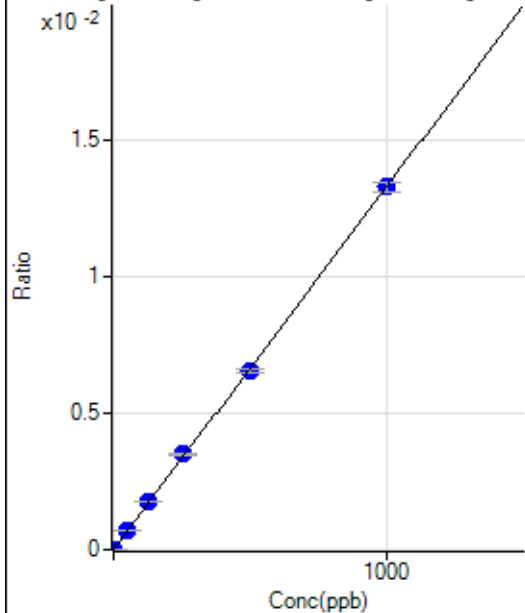
$$DL = 0.004668$$

$$BEC = 0.008124$$

Weight: <None>

Min Conc: 0

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



	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	16.67	0.0000	P	69.
2	☐	1.000	0.992	181.11	0.0000	P	10.
3	☐	50.000	53.190	8786.05	0.0007	P	1.4
4	☐	125.000	133.275	22043.47	0.0018	P	1.7
5	☐	250.000	262.837	41970.55	0.0035	P	1.8
6	☐	500.000	491.357	82068.11	0.0065	P	2.0
7	☐	1000.000	999.919	163718.02	0.0133	P	2.3
8	☐			140.00	0.0000	P	8.6

$$y = 1.3303\text{E-}005 * x + 1.3462\text{E-}006$$

$$R = 0.9998$$

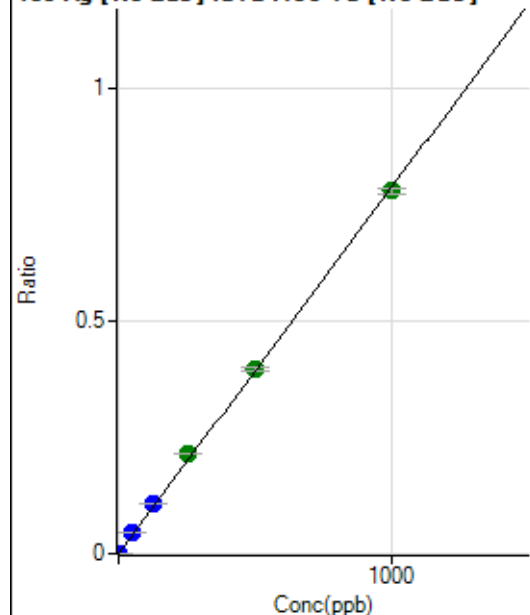
$$DL = 0.2115$$

$$BEC = 0.1012$$

Weight: <None>

Min Conc: 0

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



	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	20.00	0.0000	P	32.
2	☐	1.000	1.017	10002.43	0.0008	P	3.5
3	☐	50.000	55.433	541229.28	0.0437	P	1.0
4	☐	125.000	136.562	1336522.05	0.1076	P	0.5
5	☐	250.000	273.035	2580664.20	0.2151	A	1.9
6	☐	500.000	503.567	4979620.72	0.3967	A	2.0
7	☐	1000.000	990.740	9605546.66	0.7805	A	1.9
8	☐			2541.36	0.0002	P	17.

$$y = 7.8776E-004 * x + 1.6095E-006$$

$$R = 0.9997$$

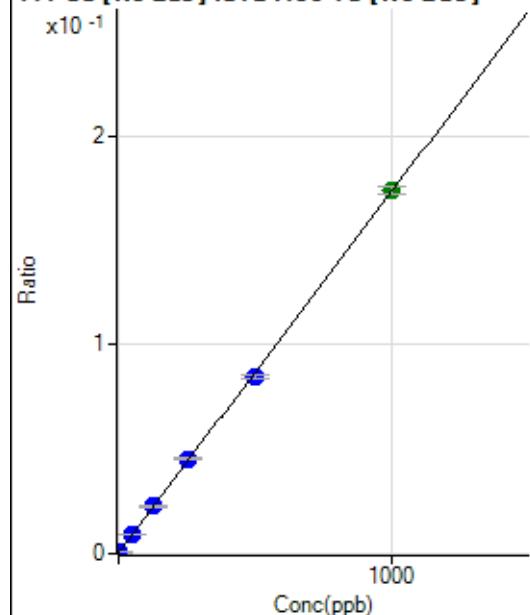
$$DL = 0.001981$$

$$BEC = 0.002043$$

Weight: <None>

Min Conc: 0

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



	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	4999.26	0.0004	P	0.8
2	☐	1.000	1.065	7313.39	0.0006	P	3.0
3	☐	50.000	52.112	116562.96	0.0094	P	0.8
4	☐	125.000	128.855	281550.52	0.0227	P	1.5
5	☐	250.000	259.937	543613.19	0.0453	P	2.3
6	☐	500.000	489.204	1065906.17	0.0849	P	1.9
7	☐	1000.000	1002.326	2135938.77	0.1736	A	2.2
8	☐			5565.06	0.0005	P	2.5

$$y = 1.7275E-004 * x + 4.0312E-004$$

$$R = 0.9999$$

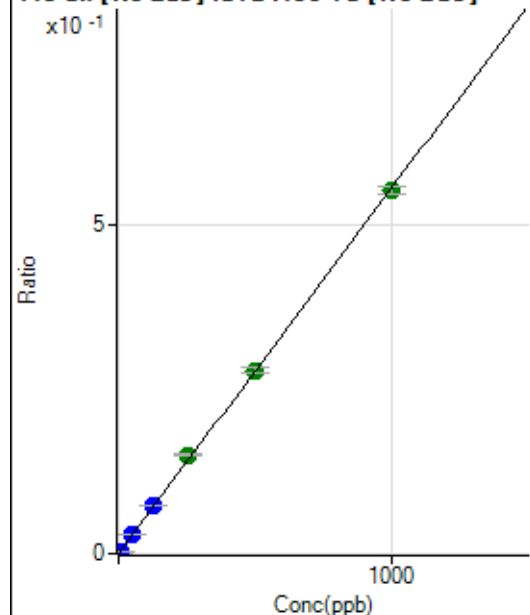
$$DL = 0.05821$$

$$BEC = 2.334$$

Weight: <None>

Min Conc: 0

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



	R _{jt}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1876.82	0.0002	P	0.5
2	☐	5.000	4.820	35257.58	0.0028	P	0.8
3	☐	50.000	52.586	364214.31	0.0294	P	0.7
4	☐	125.000	131.072	907194.17	0.0730	P	1.3
5	☐	250.000	270.663	1807390.46	0.1506	A	1.3
6	☐	500.000	502.138	3506163.46	0.2793	A	2.3
7	☐	1000.000	992.878	6795251.91	0.5521	A	2.2
8	☐			5180.99	0.0005	P	4.2

$$y = 5.5596E-004 * x + 1.5133E-004$$

$$R = 0.9998$$

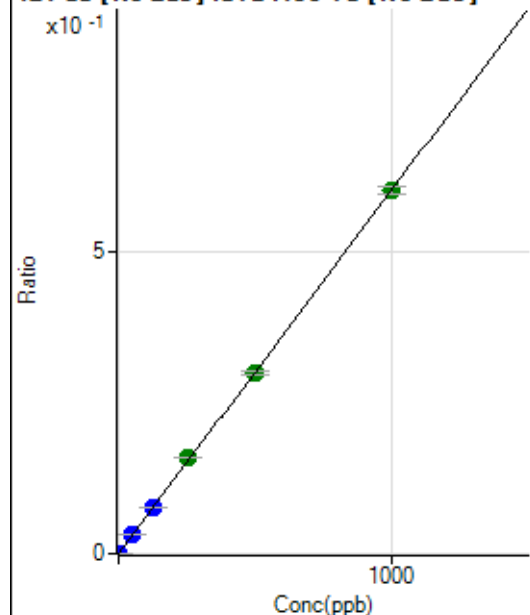
$$DL = 0.003834$$

$$BEC = 0.2722$$

Weight: <None>

Min Conc: 0

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



	R _{jt}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	41.11	0.0000	P	31.
2	☐	2.000	1.926	14451.81	0.0012	P	1.7
3	☐	50.000	51.471	383223.23	0.0309	P	1.2
4	☐	125.000	127.840	954080.63	0.0768	P	0.5
5	☐	250.000	264.568	1907222.54	0.1589	A	1.8
6	☐	500.000	495.239	3734383.17	0.2975	A	2.3
7	☐	1000.000	998.310	7380169.75	0.5997	A	2.2
8	☐			5169.87	0.0005	P	3.0

$$y = 6.0069E-004 * x + 3.3094E-006$$

$$R = 0.9999$$

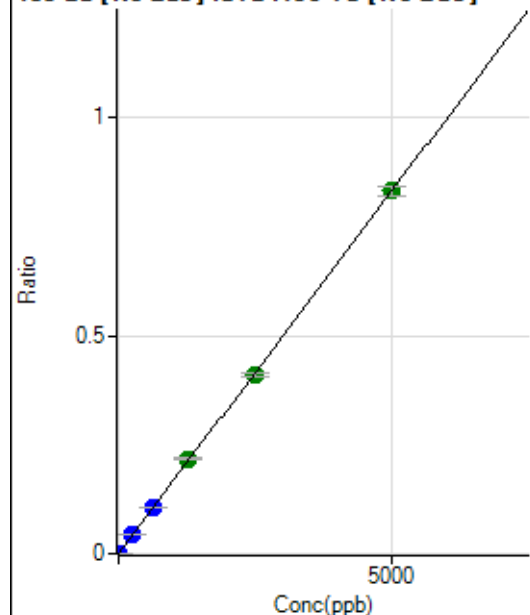
$$DL = 0.005278$$

$$BEC = 0.005509$$

Weight: <None>

Min Conc: 0

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



	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	26.67	0.0000	P	38.
2	☐	10.000	9.469	19611.35	0.0016	P	1.3
3	☐	250.000	254.386	523572.54	0.0422	P	1.4
4	☐	625.000	633.780	1307580.92	0.1052	P	0.2
5	☐	1250.000	1307.478	2605159.84	0.2171	A	2.5
6	☐	2500.000	2455.625	5118894.78	0.4078	A	2.2
7	☐	5000.000	5006.502	10230935.61	0.8314	A	2.9
8	☐			6070.25	0.0005	P	7.8

$$y = 1.6606\text{E-}004 * x + 2.1557\text{E-}006$$

$$R = 0.9999$$

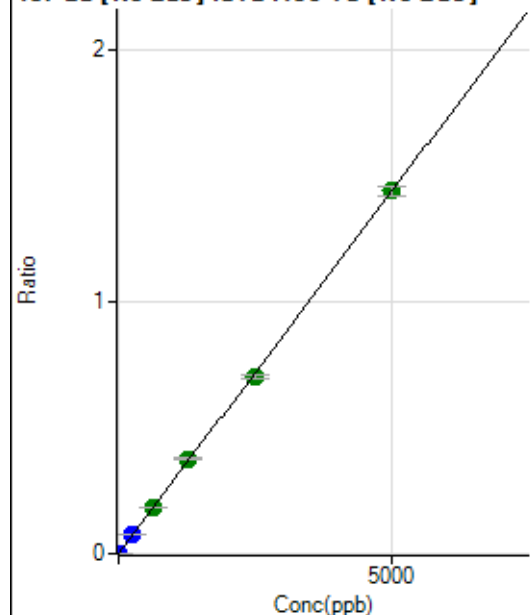
$$DL = 0.01486$$

$$BEC = 0.01298$$

Weight: <None>

Min Conc: 0

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



	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	65.56	0.0000	P	14.
2	☐	10.000	9.397	33726.63	0.0027	P	1.4
3	☐	250.000	255.856	912001.28	0.0736	P	0.5
4	☐	625.000	646.305	2309269.41	0.1859	A	0.6
5	☐	1250.000	1304.942	4502689.17	0.3753	A	2.6
6	☐	2500.000	2448.230	8838300.56	0.7041	A	2.5
7	☐	5000.000	5009.195	17729179.46	1.4406	A	2.4
8	☐			10677.47	0.0009	P	8.9

$$y = 2.8760\text{E-}004 * x + 5.2923\text{E-}006$$

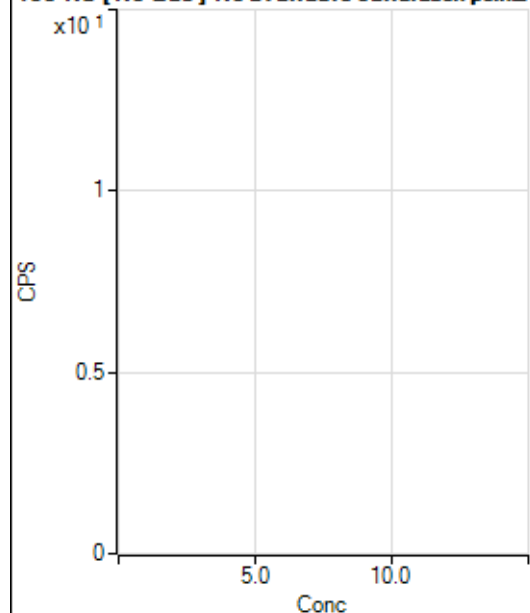
$$R = 0.9999$$

$$DL = 0.007737$$

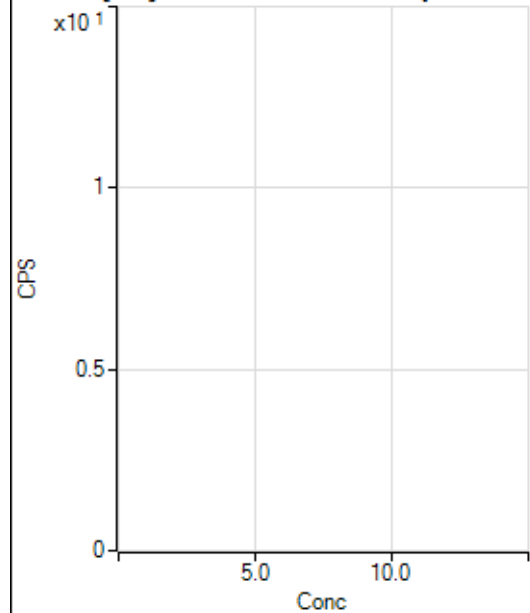
$$BEC = 0.0184$$

Weight: <None>

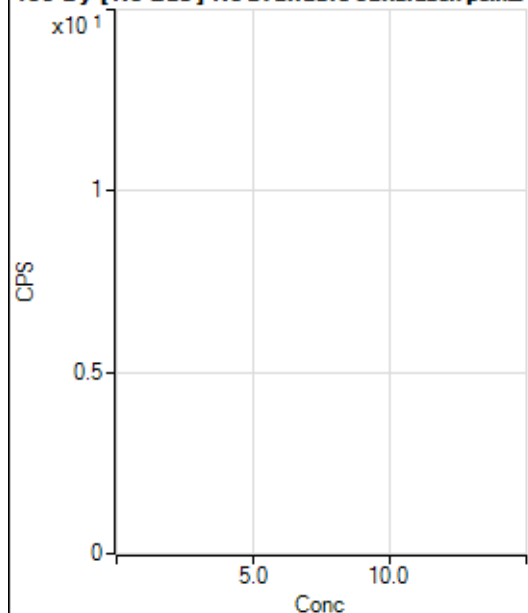
Min Conc: 0

150 Nd [No Gas] No available calibration points

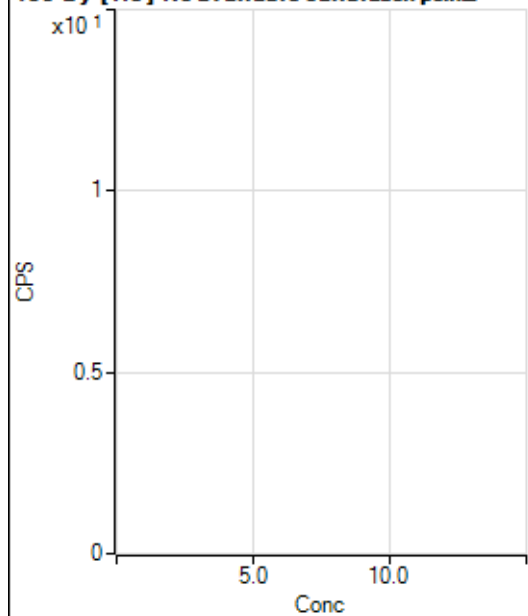
	Rjc t	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			12.22		P	41.
2	☐			13.33		P	66.
3	☐			55.56		P	33.
4	☐			114.45		P	10.
5	☐			304.45		P	11.
6	☐			530.02		P	2.7
7	☐			1036.72		P	8.2
8	☐			332.23		P	12.

150 Nd [He] No available calibration points

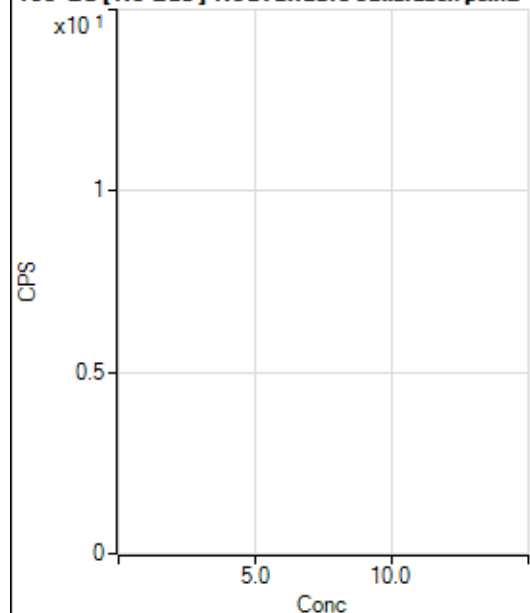
	Rjc t	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			7.78		P	65.
2	☐			4.44		P	43.
3	☐			14.44		P	81.
4	☐			37.78		P	22.
5	☐			88.89		P	18.
6	☐			143.34		P	2.3
7	☐			273.34		P	2.4
8	☐			167.78		P	8.0

156 Dy [No Gas] No available calibration points

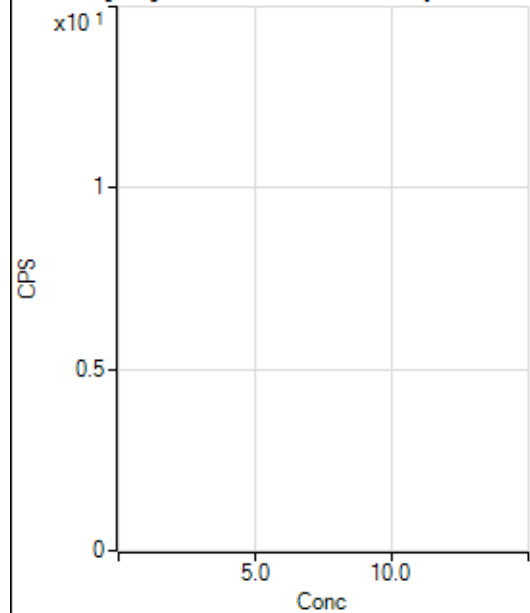
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			5.56		P	34.
2	☐			17.78		P	39.
3	☐			46.67		P	51.
4	☐			96.67		P	6.9
5	☐			177.78		P	20.
6	☐			337.79		P	7.1
7	☐			710.03		P	6.6
8	☐			1953.49		P	7.4

156 Dy [He] No available calibration points

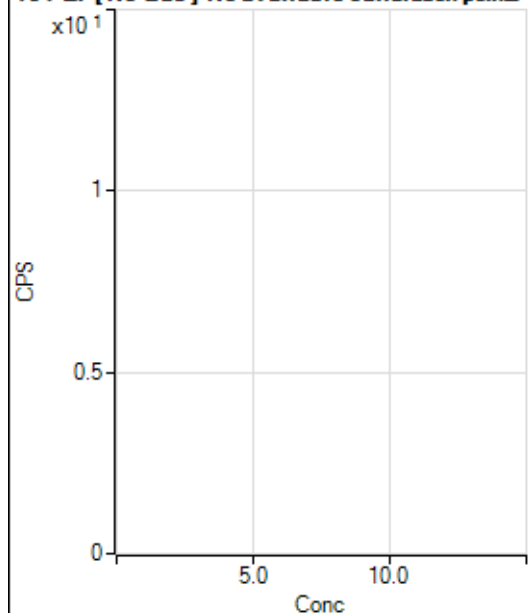
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			4.44		P	43.
2	☐			10.00		P	57.
3	☐			42.22		P	18.
4	☐			110.00		P	5.3
5	☐			221.12		P	15.
6	☐			402.23		P	3.7
7	☐			835.59		P	5.2
8	☐			1243.40		P	4.7

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

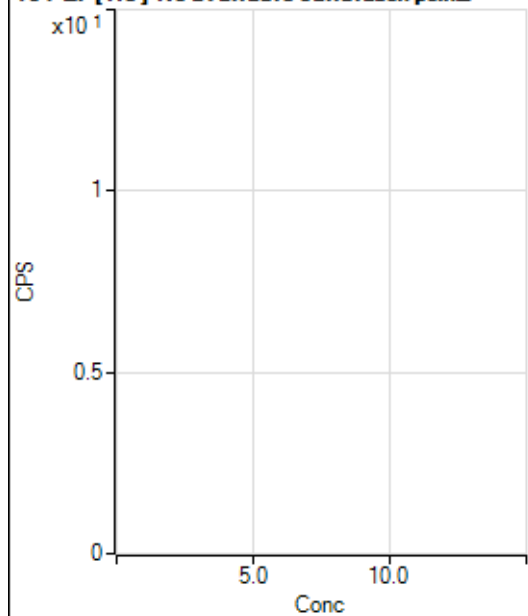
	Rjc t	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			100.00		P	12.
2	☐			90.00		P	3.7
3	☐			124.45		P	13.
4	☐			175.56		P	14.
5	☐			230.01		P	15.
6	☐			326.67		P	5.7
7	☐			590.02		P	2.0
8	☐			2116.85		P	2.1

160 Gd [He] No available calibration points

	Rjc t	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			593.35		P	5.7
2	☐			583.35		P	7.0
3	☐			602.24		P	7.4
4	☐			588.91		P	11.
5	☐			643.36		P	5.6
6	☐			714.47		P	1.3
7	☐			897.82		P	5.6
8	☐			1881.26		P	1.9

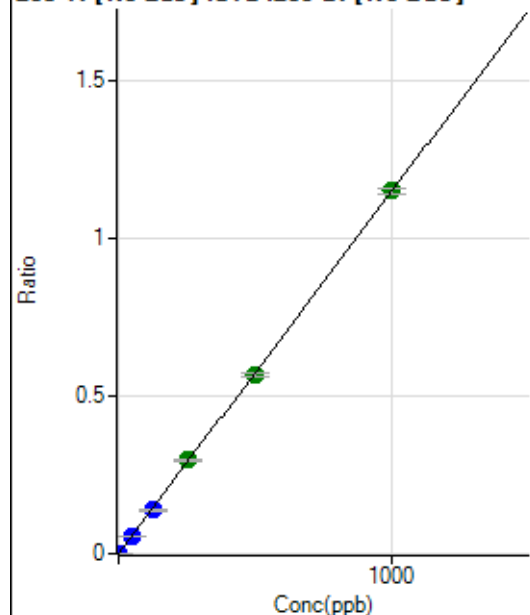
164 Er [No Gas] No available calibration points

	Rjc t	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			107.78		P	17.
2	☐			112.22		P	31.
3	☐			120.00		P	26.
4	☐			130.00		P	4.4
5	☐			133.34		P	20.
6	☐			206.67		P	4.3
7	☐			297.78		P	6.2
8	☐			320.01		P	7.2

164 Er [He] No available calibration points

	Rjc t	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			43.33		P	33.
2	☐			51.11		P	26.
3	☐			71.11		P	16.
4	☐			78.89		P	17.
5	☐			100.00		P	20.
6	☐			86.67		P	3.8
7	☐			143.34		P	9.3
8	☐			222.23		P	18.

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



	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	287.79	0.0000	P	21.
2	☐	1.000	0.860	9338.84	0.0010	P	0.2
3	☐	50.000	47.580	491688.29	0.0547	P	1.4
4	☐	125.000	119.600	1236497.34	0.1376	P	0.7
5	☐	250.000	258.211	2579853.95	0.2969	A	1.0
6	☐	500.000	493.648	5028171.38	0.5677	A	1.7
7	☐	1000.000	1001.919	9970683.88	1.1521	A	1.9
8	☐			1856.82	0.0003	P	27.

$$y = 0.0011 * x + 3.1627E-005$$

$$R = 0.9999$$

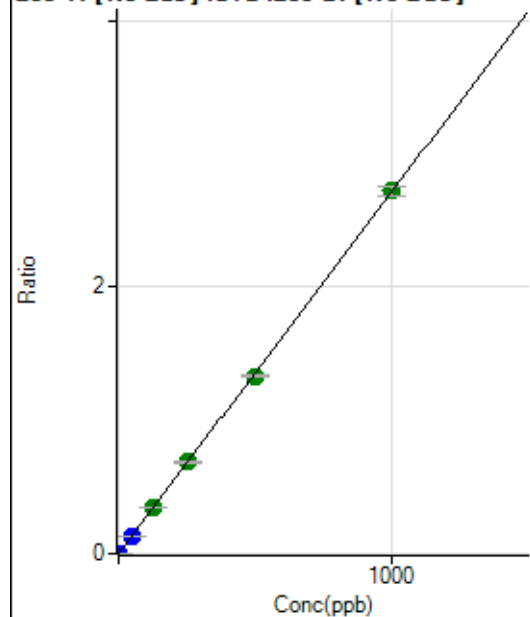
$$DL = 0.01771$$

$$BEC = 0.0275$$

Weight: <None>

Min Conc: 0

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



	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	597.80	0.0001	P	7.8
2	☐	1.000	0.884	22546.51	0.0025	P	1.0
3	☐	50.000	48.064	1172068.71	0.1305	P	0.7
4	☐	125.000	127.930	3121219.30	0.3472	A	1.3
5	☐	250.000	252.716	5958183.87	0.6859	A	1.8
6	☐	500.000	491.119	11805515.80	1.3328	A	1.6
7	☐	1000.000	1003.492	23565322.15	2.7232	A	2.4
8	☐			4461.93	0.0006	P	25.

$$y = 0.0027 * x + 6.5663E-005$$

$$R = 0.9999$$

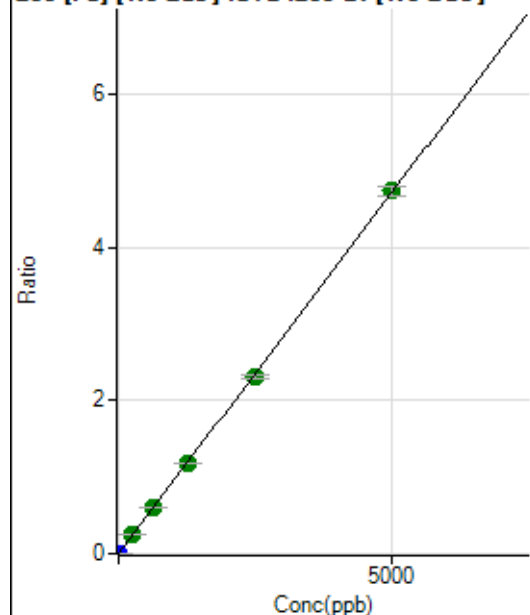
$$DL = 0.005638$$

$$BEC = 0.0242$$

Weight: <None>

Min Conc: 0

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



	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	611.13	0.0001	P	9.7
2	☐	1.000	0.857	7992.43	0.0009	P	2.7
3	☐	250.000	261.158	2208403.80	0.2459	A	1.7
4	☐	625.000	630.419	5334570.06	0.5935	A	0.6
5	☐	1250.000	1249.662	10219302.49	1.1763	A	1.6
6	☐	2500.000	2442.770	20365883.45	2.2994	A	2.4
7	☐	5000.000	5027.464	40949512.72	4.7323	A	2.6
8	☐			17623.83	0.0024	P	8.2

$$y = 9.4127\text{E-}004 * x + 6.7124\text{E-}005$$

$$R = 0.9999$$

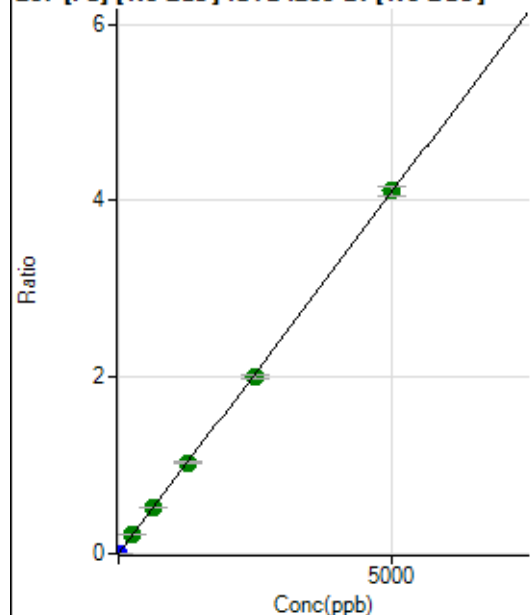
$$DL = 0.0207$$

$$BEC = 0.07131$$

Weight: <None>

Min Conc: 0

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



	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	501.13	0.0001	P	1.4
2	☐	1.000	0.865	6987.43	0.0008	P	4.3
3	☐	250.000	262.813	1933586.03	0.2153	A	1.7
4	☐	625.000	634.240	4669305.21	0.5195	A	1.0
5	☐	1250.000	1256.419	8939453.75	1.0290	A	1.4
6	☐	2500.000	2450.010	17770679.32	2.0065	A	3.1
7	☐	5000.000	5021.595	35585035.02	4.1124	A	2.8
8	☐			14930.60	0.0020	P	9.4

$$y = 8.1894\text{E-}004 * x + 5.5042\text{E-}005$$

$$R = 0.9999$$

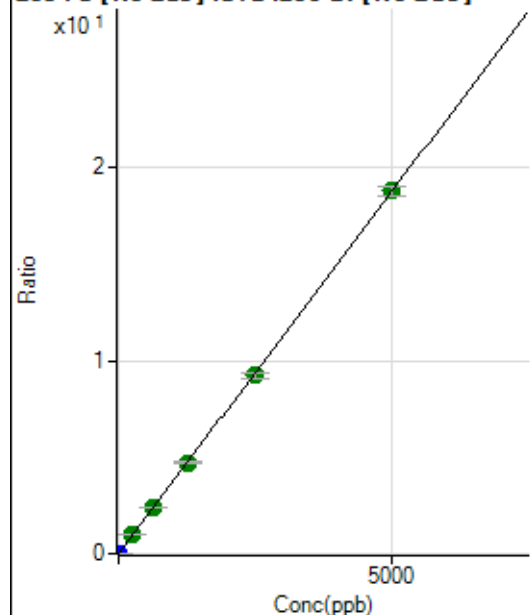
$$DL = 0.0029$$

$$BEC = 0.06721$$

Weight: <None>

Min Conc: 0

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



	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	2342.33	0.0003	P	4.1
2	☐	1.000	0.878	32443.40	0.0035	P	2.4
3	☐	250.000	256.907	8648046.47	0.9629	A	0.9
4	☐	625.000	628.982	21187358.43	2.3570	A	0.5
5	☐	1250.000	1258.964	40983471.75	4.7175	A	1.5
6	☐	2500.000	2461.289	81683386.28	9.2224	A	2.6
7	☐	5000.000	5016.271	162644770.3	18.7957	A	2.5
8	☐			69600.94	0.0095	P	8.7

$$y = 0.0037 * x + 2.5726E-004$$

$$R = 1.0000$$

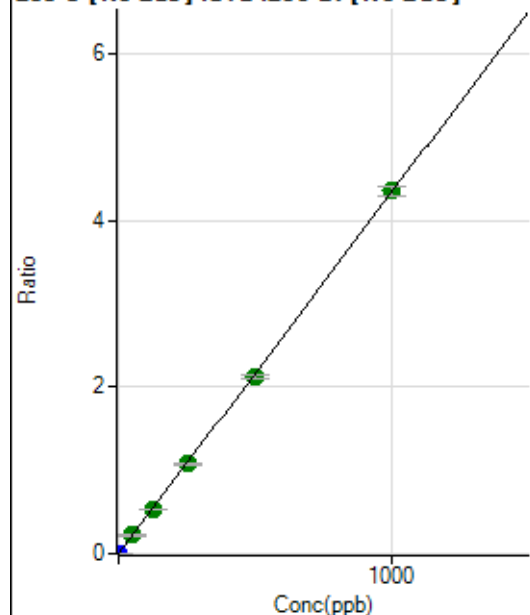
$$DL = 0.008545$$

$$BEC = 0.06866$$

Weight: <None>

Min Conc: 0

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



	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	18.89	0.0000	P	54.
2	☐	1.000	0.818	32487.70	0.0036	P	1.4
3	☐	50.000	50.650	1973846.10	0.2198	A	1.5
4	☐	125.000	123.896	4832427.15	0.5376	A	0.3
5	☐	250.000	249.600	9408113.54	1.0830	A	1.8
6	☐	500.000	491.043	18871153.61	2.1305	A	1.8
7	☐	1000.000	1004.684	37719609.99	4.3591	A	2.8
8	☐			6611.79	0.0009	P	23.

$$y = 0.0043 * x + 2.0772E-006$$

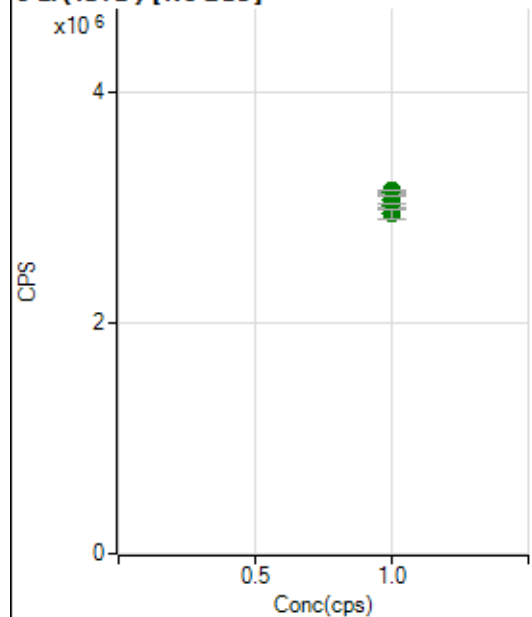
$$R = 0.9999$$

$$DL = 0.0007798$$

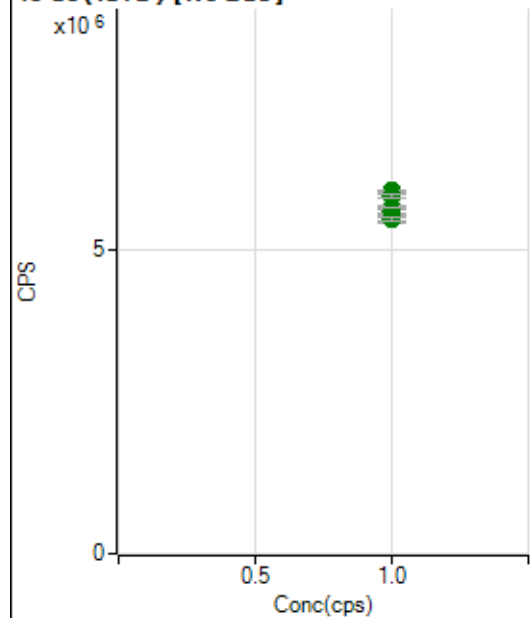
$$BEC = 0.0004787$$

Weight: <None>

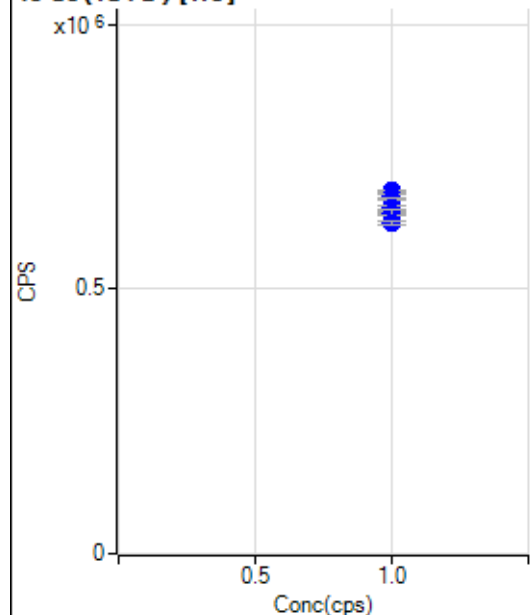
Min Conc: 0

6 Li (ISTD) [No Gas]

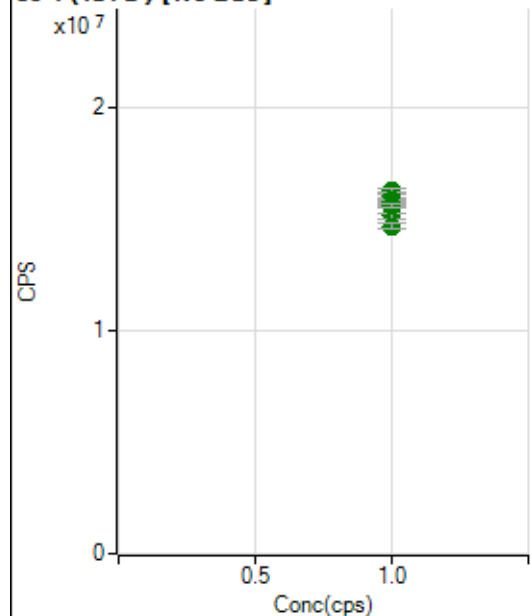
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		3111842.04		A	1.1
2	☐	1.000		3137430.54		A	0.8
3	☐	1.000		3144908.91		A	0.7
4	☐	1.000		3134669.95		A	0.7
5	☐	1.000		2991923.74		A	0.6
6	☐	1.000		3061643.29		A	2.2
7	☐	1.000		3015205.30		A	0.7
8	☐	1.000		2942271.52		A	2.3

45 Sc (ISTD) [No Gas]

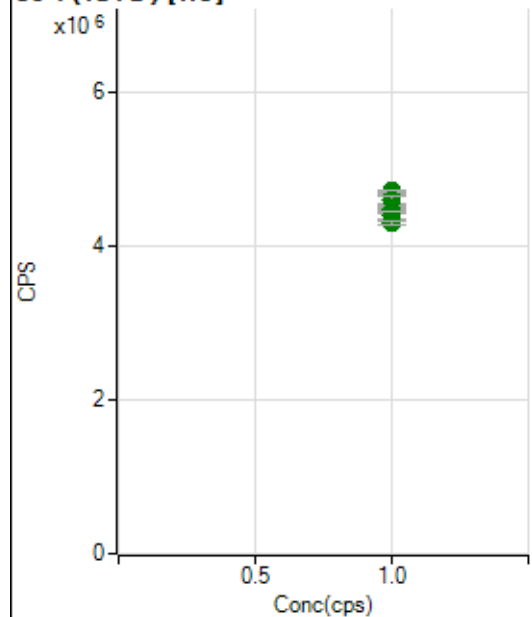
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		5949414.70		A	0.4
2	☐	1.000		5988803.38		A	0.8
3	☐	1.000		5892130.26		A	1.0
4	☐	1.000		5717450.33		A	1.0
5	☐	1.000		5512925.27		A	1.5
6	☐	1.000		5659264.15		A	1.9
7	☐	1.000		5568537.49		A	0.8
8	☐	1.000		5520390.13		A	1.2

45 Sc (ISTD) [He]

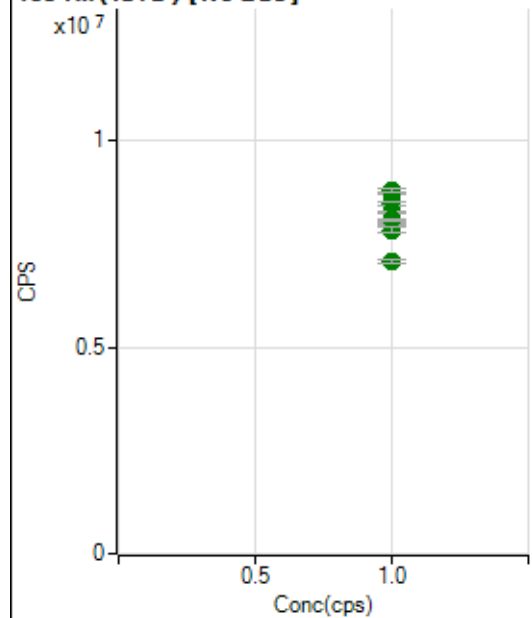
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		681589.44		P	0.6
2	☐	1.000		685251.09		P	0.2
3	☐	1.000		676111.66		P	1.1
4	☐	1.000		670089.10		P	0.9
5	☐	1.000		650295.33		P	2.5
6	☐	1.000		653425.87		P	1.6
7	☐	1.000		644318.31		P	1.5
8	☐	1.000		625163.07		P	1.4

89 Y (ISTD) [No Gas]

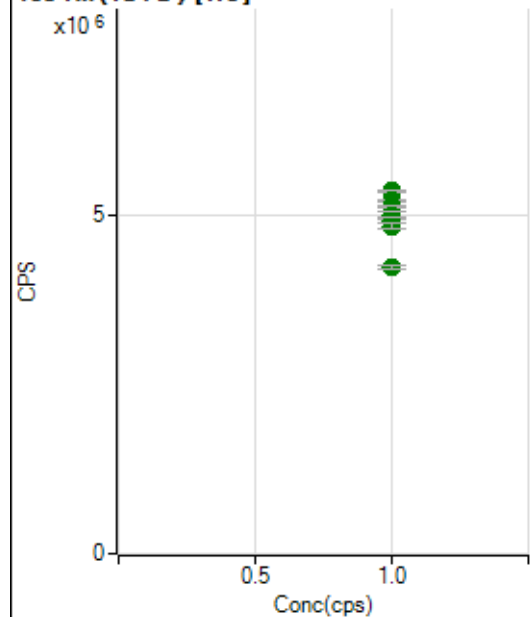
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		16021898.65		A	1.0
2	☐	1.000		16268287.26		A	0.9
3	☐	1.000		15885282.54		A	0.3
4	☐	1.000		15811021.57		A	0.9
5	☐	1.000		15155550.74		A	1.4
6	☐	1.000		15748688.10		A	1.6
7	☐	1.000		15631672.27		A	1.3
8	☐	1.000		14694856.31		A	1.7

89 Y(ISTD) [He]

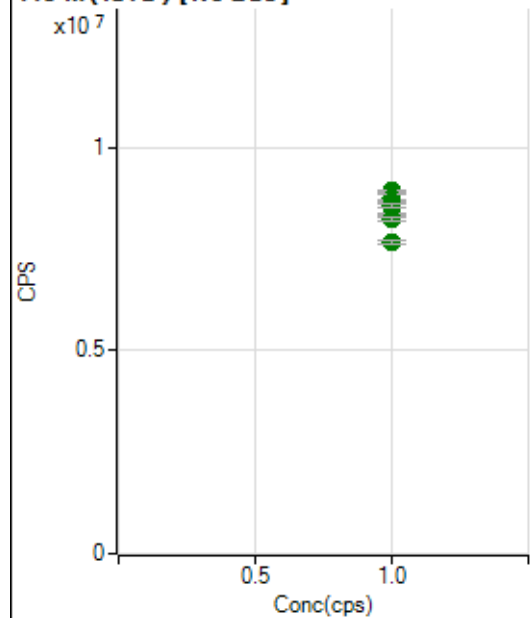
	Rjc t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		4683097.22		A	0.3
2	☐	1.000		4721694.93		A	0.7
3	☐	1.000		4612607.33		A	2.3
4	☐	1.000		4516485.31		A	0.7
5	☐	1.000		4413163.23		A	2.8
6	☐	1.000		4476023.75		A	2.1
7	☐	1.000		4456760.25		A	0.4
8	☐	1.000		4311444.21		A	1.3

103 Rh(ISTD) [No Gas]

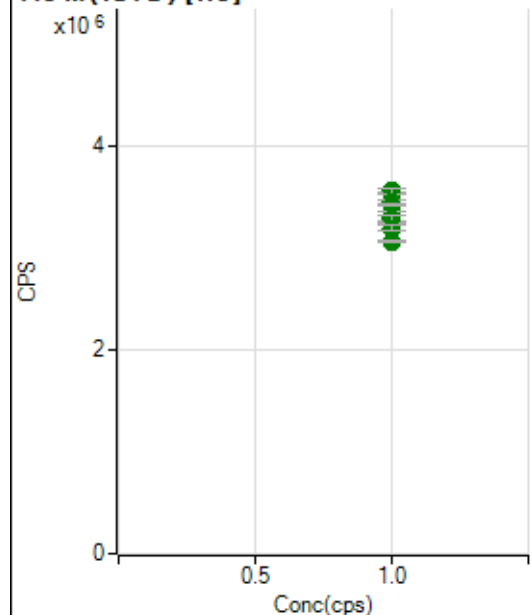
	Rjc t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		8712460.77		A	0.6
2	☐	1.000		8784249.10		A	0.9
3	☐	1.000		8490458.21		A	1.2
4	☐	1.000		8266104.39		A	0.8
5	☐	1.000		7974991.90		A	0.5
6	☐	1.000		8097099.25		A	0.5
7	☐	1.000		7837895.37		A	1.7
8	☐	1.000		7068927.19		A	1.2

103 Rh (ISTD) [He]

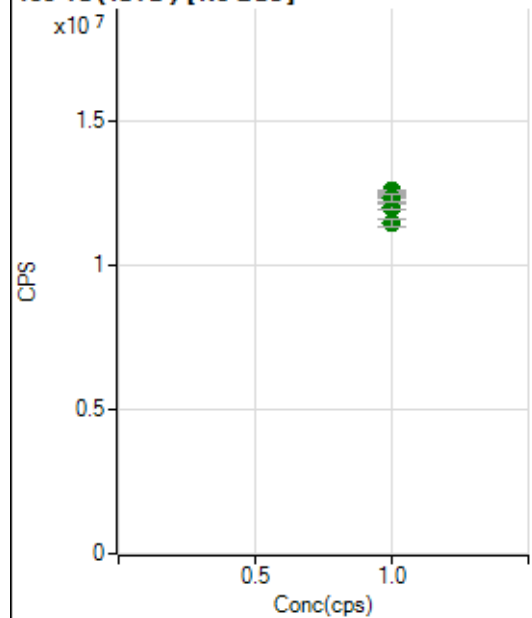
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		5322936.52		A	0.3
2	☐	1.000		5347166.17		A	0.5
3	☐	1.000		5213800.79		A	0.6
4	☐	1.000		5118519.75		A	0.6
5	☐	1.000		4976931.59		A	2.3
6	☐	1.000		4913330.93		A	2.0
7	☐	1.000		4826114.82		A	1.5
8	☐	1.000		4218543.17		A	1.2

115 In (ISTD) [No Gas]

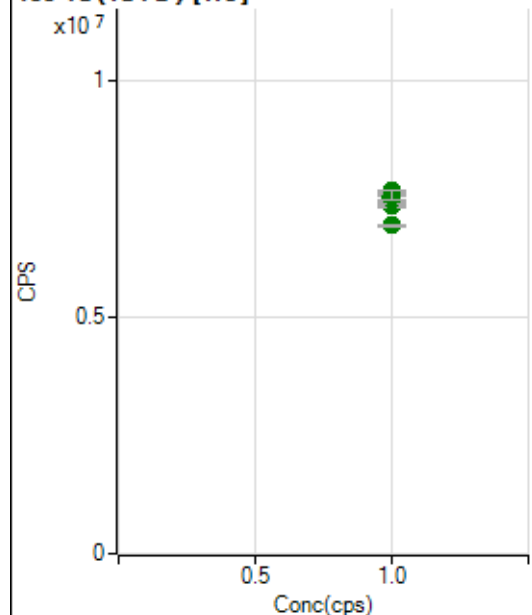
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		8889026.68		A	0.7
2	☐	1.000		8935692.32		A	0.7
3	☐	1.000		8780351.84		A	1.5
4	☐	1.000		8651910.30		A	0.4
5	☐	1.000		8346945.16		A	0.5
6	☐	1.000		8583049.76		A	1.1
7	☐	1.000		8249350.95		A	1.3
8	☐	1.000		7681118.02		A	1.1

115 In (ISTD) [He]

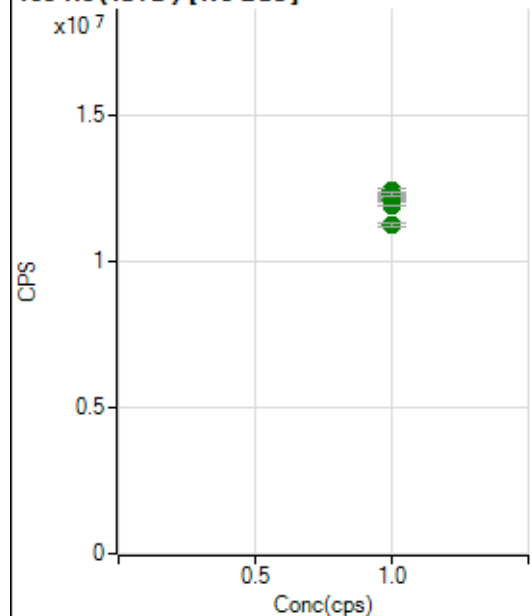
	Rjc t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		3525681.63		A	0.5
2	☐	1.000		3552801.79		A	1.8
3	☐	1.000		3448658.07		A	1.4
4	☐	1.000		3412087.06		A	0.6
5	☐	1.000		3300196.07		A	2.9
6	☐	1.000		3281632.23		A	2.0
7	☐	1.000		3190583.83		A	1.7
8	☐	1.000		3054582.35		A	0.8

159 Tb (ISTD) [No Gas]

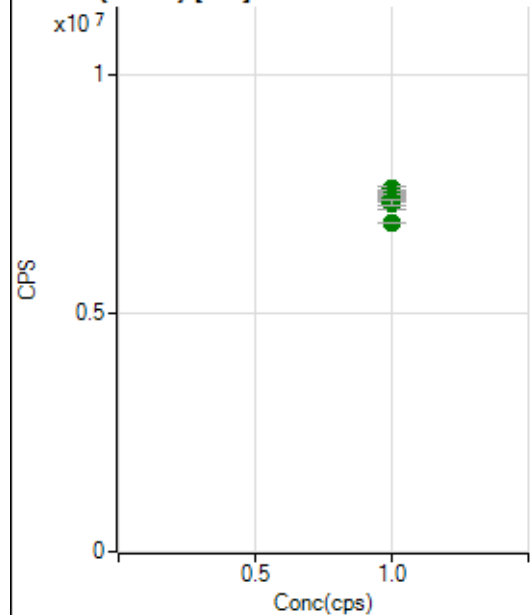
	Rjc t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		12402208.43		A	1.3
2	☐	1.000		12455090.79		A	0.7
3	☐	1.000		12393426.90		A	0.5
4	☐	1.000		12423708.15		A	0.5
5	☐	1.000		12000787.46		A	1.8
6	☐	1.000		12554020.37		A	0.8
7	☐	1.000		12310376.35		A	1.9
8	☐	1.000		11417223.30		A	2.4

159 Tb (ISTD) [He]

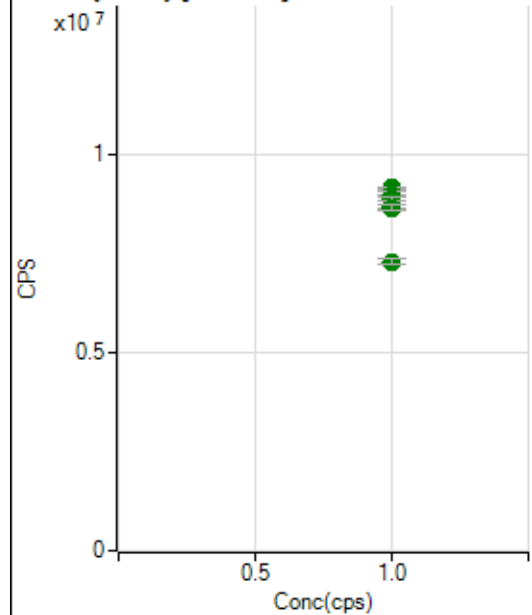
	Rjc t	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		7642439.19		A	1.3
2	☐	1.000		7665891.69		A	0.6
3	☐	1.000		7536518.15		A	1.6
4	☐	1.000		7501593.02		A	1.7
5	☐	1.000		7337807.39		A	1.0
6	☐	1.000		7480487.53		A	2.2
7	☐	1.000		7574754.40		A	2.3
8	☐	1.000		6929482.81		A	0.9

165 Ho (ISTD) [No Gas]

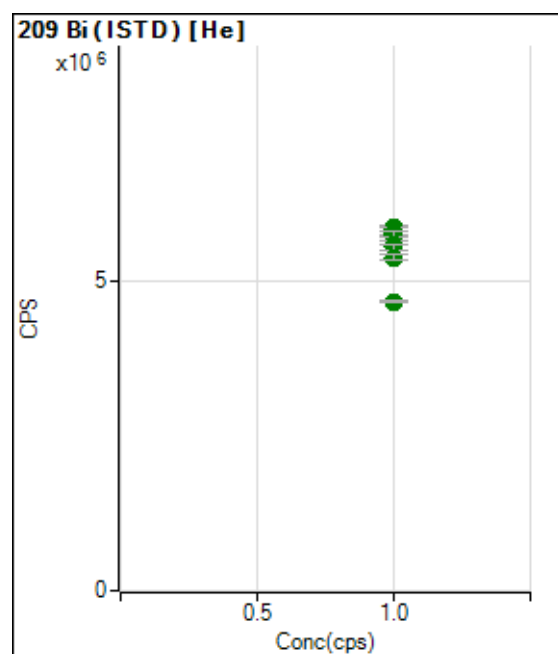
	Rjc t	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		12313954.54		A	0.8
2	☐	1.000		12322647.04		A	0.6
3	☐	1.000		12188837.46		A	1.3
4	☐	1.000		12134526.90		A	0.9
5	☐	1.000		11923398.02		A	0.4
6	☐	1.000		12426826.48		A	1.8
7	☐	1.000		12325379.26		A	1.2
8	☐	1.000		11286744.41		A	1.3

165 Ho (ISTD) [He]

	Rjc t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		7568722.59		A	0.5
2	☐	1.000		7619843.22		A	1.0
3	☐	1.000		7497242.73		A	1.1
4	☐	1.000		7521929.26		A	2.1
5	☐	1.000		7312039.34		A	3.1
6	☐	1.000		7440155.37		A	2.3
7	☐	1.000		7334857.81		A	1.6
8	☐	1.000		6906842.47		A	0.3

209 Bi (ISTD) [No Gas]

	Rjc t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		9104861.32		A	0.4
2	☐	1.000		9150467.29		A	0.1
3	☐	1.000		8981689.03		A	0.3
4	☐	1.000		8989313.13		A	1.5
5	☐	1.000		8688670.08		A	1.5
6	☐	1.000		8858502.79		A	1.0
7	☐	1.000		8655662.09		A	1.6
8	☐	1.000		7291657.53		A	1.9



	Rjc t	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5858737.48		A	1.2
2	☐	1.000		5865022.83		A	0.2
3	☐	1.000		5788920.26		A	1.0
4	☐	1.000		5753782.69		A	1.6
5	☐	1.000		5590574.78		A	2.7
6	☐	1.000		5551170.89		A	1.9
7	☐	1.000		5392180.96		A	1.4
8	☐	1.000		4677538.54		A	0.6

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7070623 MS.b
Acq. Date-Time 2023-07-06 11:33:04
Report Comment ---
Instrument Name G8403A JP14410463

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		10040	100395.80			0.205	5.000
24		476649	4766490.16			0.431	5.000
25		73189	731894.74			0.915	5.000
26		79343	793433.54			0.528	5.000
59		80703	807028.38			0.891	5.000
113		8476	84761.76			0.818	5.000
115		113082	1130817.87			0.590	5.000
206		32288	322882.31			0.659	5.000
207		29032	290324.30			1.093	5.000
208		68857	688567.73			0.941	5.000
220		0	3.50			57.143	

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

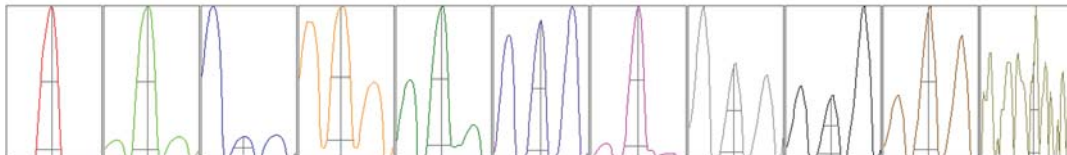
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	10052	10055	10009	10027	10055
24	477183	476716	473192	478609	477545
25	74071	73576	72516	72548	73236
26	80044	79348	79265	78966	79094
59	81915	80547	80382	80654	80016
113	8571	8520	8396	8443	8450
115	113252	113869	113061	113203	112024
206	32493	32489	32270	32202	31986
207	29448	29134	28962	29049	28569
208	69772	69177	68728	68542	68066

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	19503.03	8.95	8.90 - 9.10	
24	861866.16	23.90	23.90 - 24.10	
25	117513.59	24.85	24.90 - 25.10	Fail
26	130492.38	25.85	25.90 - 26.10	Fail
59	151060.84	58.95	58.90 - 59.10	
113	19873.52	113.00	112.90 - 113.10	
115	242918.79	115.00	114.90 - 115.10	
206	69142.07	205.95	205.90 - 206.10	
207	60992.63	206.95	206.90 - 207.10	
208	149216.76	207.95	207.90 - 208.10	
220	0.50	220.20	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.56	0.776	0.900	
24	0.60	0.819	0.900	
25	0.61	0.781	0.900	
26	0.62	0.833	0.900	
59	0.52	0.761	0.900	
113	0.43	0.675	0.900	
115	0.45	0.729	0.900	
206	0.46	0.732	0.900	
207	0.47	0.737	0.900	
208	0.46	0.768	0.900	
220	0.25	0.295		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.82 L/min Dilution Gas 0.40 L/min

US EPA Tune Check Report

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

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.3 V	Deflect	16.4 V
Extract 2	-155.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-75 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	190 V		

QP Parameters

Mass Gain	123	Axis Gain	1.0008	QP Bias	-3.0 V
Mass Offset	125	Axis Offset	-0.12		

Hardware Settings

Torch

Torch H	-0.9 mm	Torch V	0.9 mm
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EM

Discriminator	3.1 mV	Analog HV	2279 V	Pulse HV	1634 V
---------------	--------	-----------	--------	----------	--------

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		28076	280761.82			0.767	
89		166867	1668669.79			1.162	
205		28750	287502.77			0.675	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	28065	28039	27942	27894	28441
89	168828	164903	164726	167460	168418
205	28971	28775	28483	28638	28884

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.82 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	9.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	8.7 V	Deflect	2.4 V
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US EPA Tune Check Report

Extract 2	-120.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-80 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.9 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	190 V		

QP Parameters

Mass Gain	123	Axis Gain	1.0008	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.12		

Hardware Settings

Torch

Torch H	-0.9 mm	Torch V	0.9 mm
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EM

Discriminator	3.1 mV	Analog HV	2279 V	Pulse HV	1634 V
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