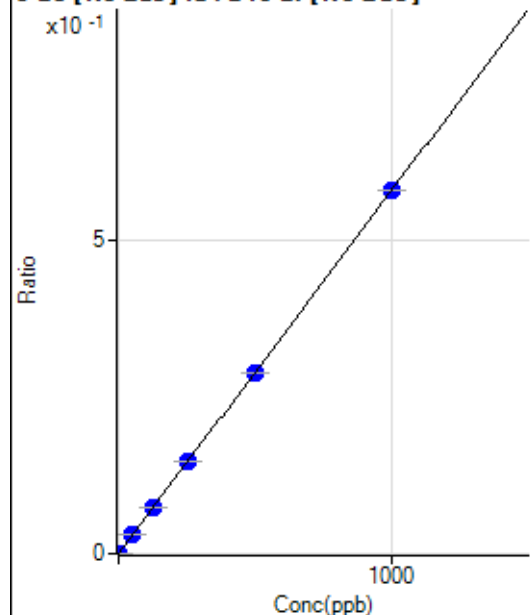


Batch Folder: C:\Agilent\ICPMH\1\DATA\P7090221 MS.b\
Analysis File: P7090221 MS.batch.bin
DA Date-Time: 2021-09-02 14:09:29
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	002CALB.d	S00	2021-09-02 12:58:55
2	003CAL.S.d	S02	2021-09-02 13:02:04
3	004CAL.S.d	S03	2021-09-02 13:05:14
4	005CAL.S.d	S04	2021-09-02 13:08:23
5	006CAL.S.d	S05	2021-09-02 13:11:31
6	007CAL.S.d	S06	2021-09-02 13:14:37
7	008CAL.S.d	S07	2021-09-02 13:17:38
8	009CAL.S.d	S08	2021-09-02 13:20:35

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	64.82	0.0000	P	21.4
2	☐	1.000	1.015	1572.33	0.0006	P	7.6
3	☐	50.000	50.771	77150.32	0.0295	P	0.7
4	☐	125.000	126.719	188158.16	0.0735	P	0.3
5	☐	250.000	253.871	359443.17	0.1473	P	0.5
6	☐	500.000	498.696	673921.07	0.2893	P	0.6
7	☐	1000.000	999.431	1283263.71	0.5797	P	0.1
8	☐			264.82	0.0001	P	15.7

$$y = 5.8002\text{E-}004 * x + 2.5231\text{E-}005$$

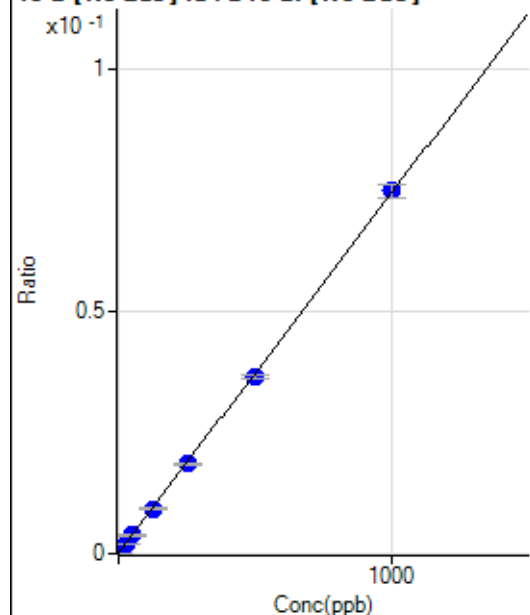
$$R = 1.0000$$

$$DL = 0.02794$$

$$BEC = 0.0435$$

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	416.69	0.0002	P	15.7
2	☐	25.000	24.192	5017.61	0.0020	P	6.1
3	☐	50.000	48.678	9892.36	0.0038	P	5.4
4	☐	125.000	121.699	23557.66	0.0092	P	4.5
5	☐	250.000	248.172	45399.16	0.0186	P	1.9
6	☐	500.000	489.041	85021.38	0.0365	P	2.8
7	☐	1000.000	1006.436	165900.66	0.0749	P	3.9
8	☐			8299.67	0.0039	P	5.6

$$y = 7.4301\text{E-}005 * x + 1.6225\text{E-}004$$

$$R = 0.9999$$

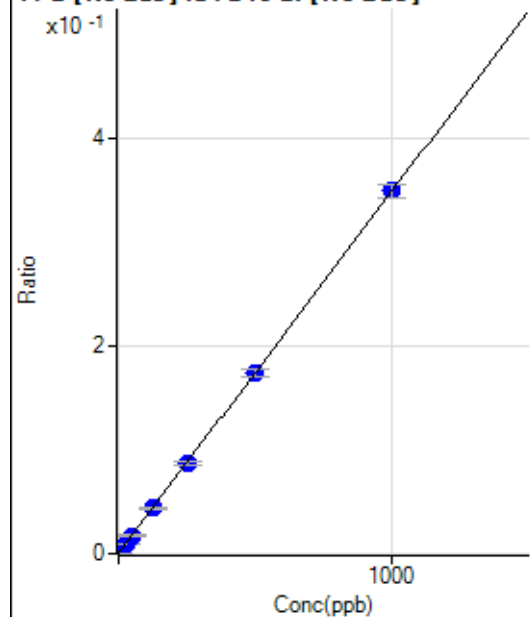
$$DL = 1.029$$

$$BEC = 2.184$$

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	1866.83	0.0007	P	5.9
2	☐	25.000	23.685	22923.35	0.0089	P	6.5
3	☐	50.000	47.940	45468.88	0.0174	P	4.2
4	☐	125.000	123.798	111855.66	0.0437	P	4.1
5	☐	250.000	247.436	211425.23	0.0866	P	4.0
6	☐	500.000	496.081	402844.96	0.1729	P	4.3
7	☐	1000.000	1002.887	772352.05	0.3489	P	3.4
8	☐			39103.88	0.0182	P	9.9

$$y = 3.4716E-004 * x + 7.2692E-004$$

$$R = 1.0000$$

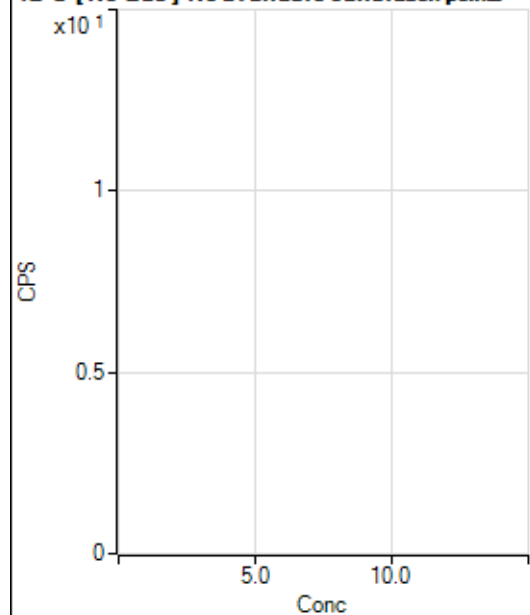
$$DL = 0.3713$$

$$BEC = 2.094$$

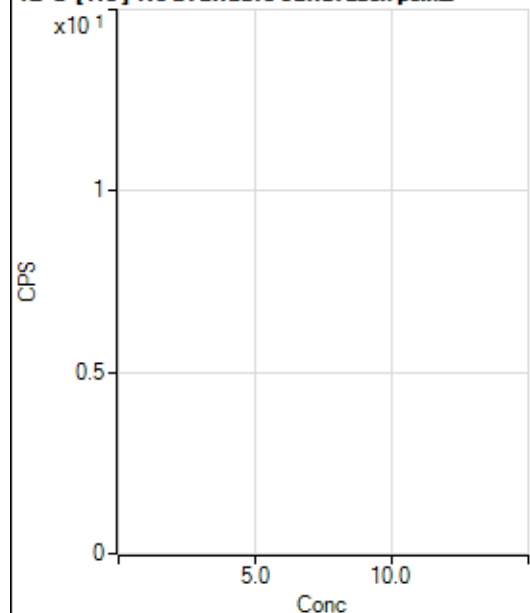
Weight: <None>

Min Conc: 0

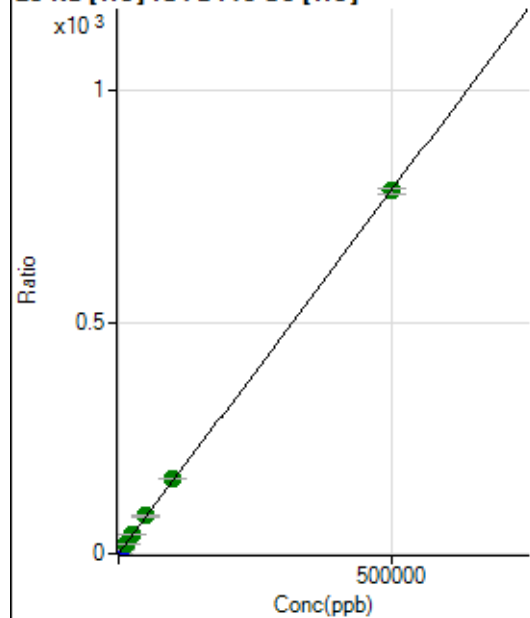
12 C [No Gas] No available calibration points



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

12 C [He] No available calibration points

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

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	4678.63	0.0187	P	0.9
2	☐	500.000	540.406	216218.22	0.8664	P	1.3
3	☐	5000.000	5387.986	2088461.16	8.4701	P	2.6
4	☐	12500.000	13046.608	5024530.36	20.4832	A	1.6
5	☐	25000.000	25988.625	9616156.03	40.7836	A	1.5
6	☐	50000.000	51759.032	18448078.02	81.2062	A	0.7
7	☐	100000.00	103215.50	36341582.76	161.9190	A	1.5
8	☐	500000.00	499113.98	191048640.3	782.9118	A	1.4

$$y = 0.0016 * x + 0.0187$$

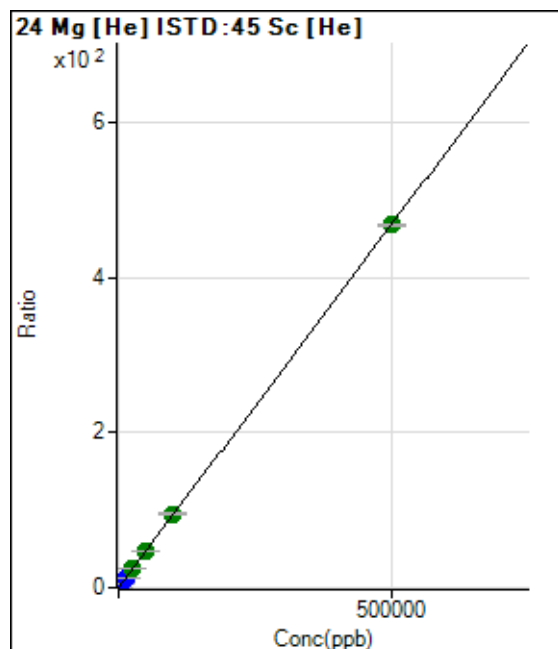
$$R = 1.0000$$

$$DL = 0.3337$$

$$BEC = 11.93$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	288.90	0.0012	P	9.7
2	☐	500.000	525.957	123266.25	0.4939	P	1.8
3	☐	5000.000	5388.556	1245006.72	5.0498	P	3.1
4	☐	12500.000	13088.719	3008553.21	12.2643	P	0.6
5	☐	25000.000	25873.402	5716255.20	24.2425	A	0.7
6	☐	50000.000	51250.205	10908773.59	48.0186	A	0.7
7	☐	100000.00	101453.16	21333177.04	95.0549	A	2.1
8	☐	500000.00	499522.04	114211044.2	468.0148	A	0.8

$$y = 9.3692\text{E-}004 * x + 0.0012$$

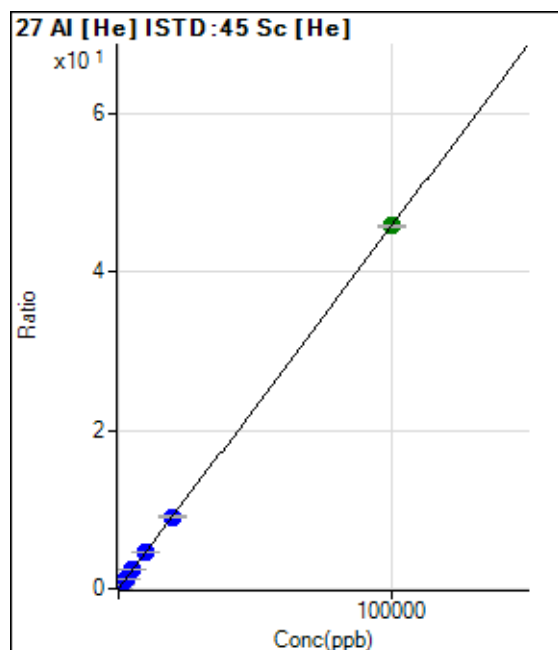
$$R = 1.0000$$

$$DL = 0.3603$$

$$BEC = 1.234$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	133.34	0.0005	P	23.0
2	☐	20.000	25.432	3036.49	0.0122	P	0.6
3	☐	1000.000	1041.297	117561.21	0.4768	P	2.7
4	☐	2500.000	2559.137	287242.87	1.1710	P	1.3
5	☐	5000.000	5057.929	545618.00	2.3139	P	0.4
6	☐	10000.000	9960.032	1035026.57	4.5560	P	0.8
7	☐	20000.000	19869.554	2039827.52	9.0884	P	1.5
8	☐	100000.00	100025.29	11164711.97	45.7498	A	0.5

$$y = 4.5738\text{E-}004 * x + 5.3387\text{E-}004$$

$$R = 1.0000$$

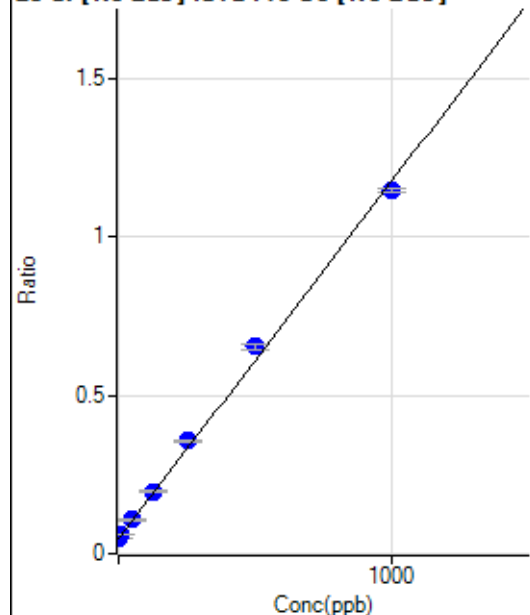
$$DL = 0.8068$$

$$BEC = 1.167$$

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	160058.58	0.0467	P	1.0
2	☐	10.000	13.117	209230.05	0.0615	P	2.9
3	☐	50.000	53.319	371861.53	0.1069	P	1.2
4	☐	125.000	132.308	664950.17	0.1962	P	2.3
5	☐	250.000	273.674	1162184.17	0.3559	P	2.0
6	☐	500.000	538.478	2033830.99	0.6551	P	2.9
7	☐	1000.000	973.732	3498231.94	1.1469	P	1.2
8	☐			340390.36	0.1107	P	1.3

$$y = 0.0011 * x + 0.0467$$

R = 0.9986

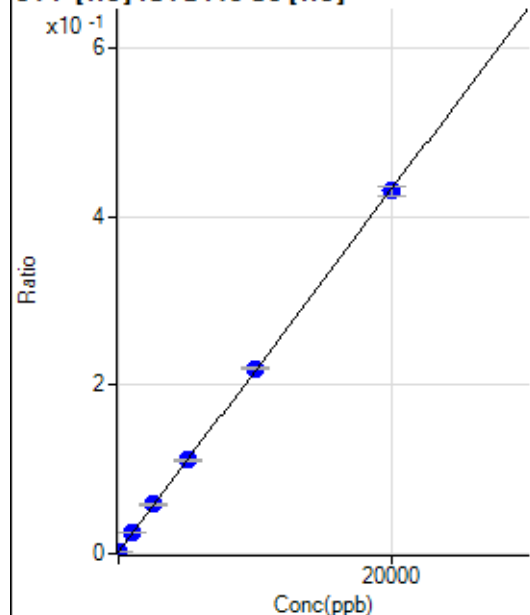
DL = 1.206

BEC = 41.32

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-0.859	488.91	0.0020	P	5.6
2	☐	0.000	0.859	497.25	0.0020	P	10.1
3	☐	1000.000	1078.721	6218.11	0.0252	P	3.5
4	☐	2500.000	2631.616	14396.12	0.0587	P	1.5
5	☐	5000.000	5085.629	26301.43	0.1115	P	1.6
6	☐	10000.000	10091.752	49844.64	0.2194	P	1.0
7	☐	20000.000	19912.329	96739.88	0.4310	P	2.6
8	☐			427.79	0.0018	P	18.5

$$y = 2.1546E-005 * x + 0.0020$$

R = 1.0000

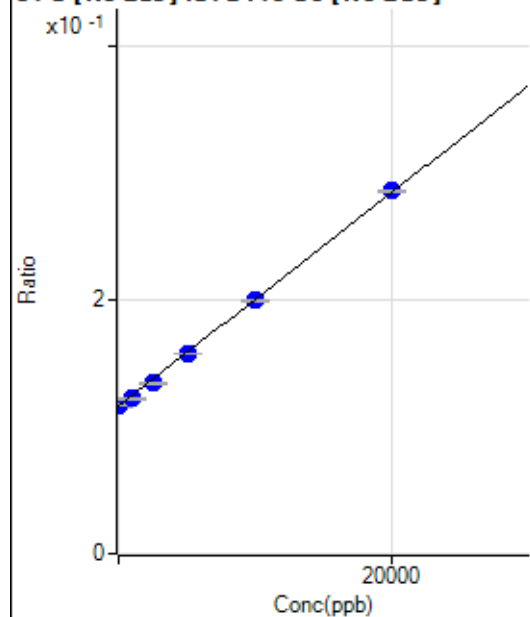
DL = 21.68

BEC = 91.67

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	-36.241	398744.84	0.1163	P	1.5
2	☐	0.000	36.241	397729.69	0.1169	P	1.5
3	☐	1000.000	658.866	424771.35	0.1222	P	0.8
4	☐	2500.000	2160.253	456963.40	0.1348	P	1.3
5	☐	5000.000	4918.278	515993.54	0.1580	P	0.5
6	☐	10000.000	9878.355	620087.42	0.1997	P	1.1
7	☐	20000.000	20140.778	872566.69	0.2861	P	0.4
8	☐			335913.87	0.1094	P	2.8

$$y = 8.4137E-006 * x + 0.1166$$

$$R = 0.9998$$

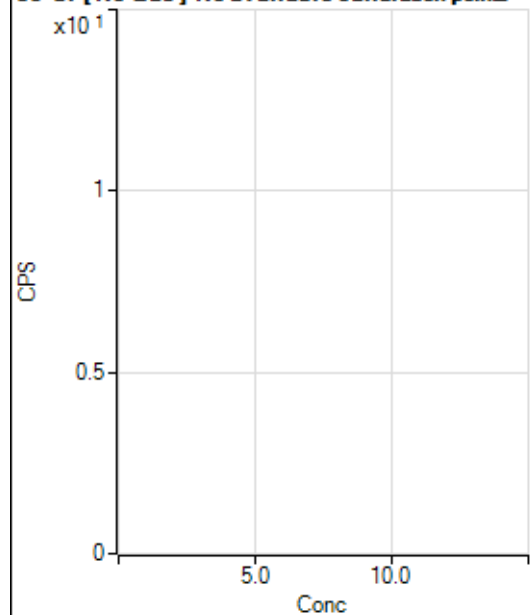
$$DL = 635$$

$$BEC = 1.386E+04$$

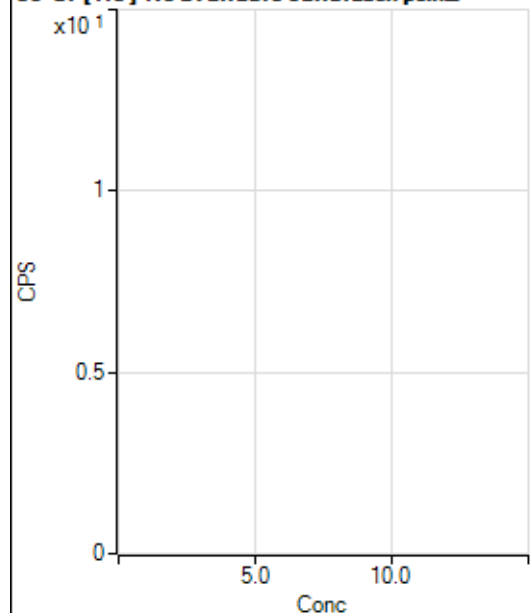
Weight: <None>

Min Conc: 0

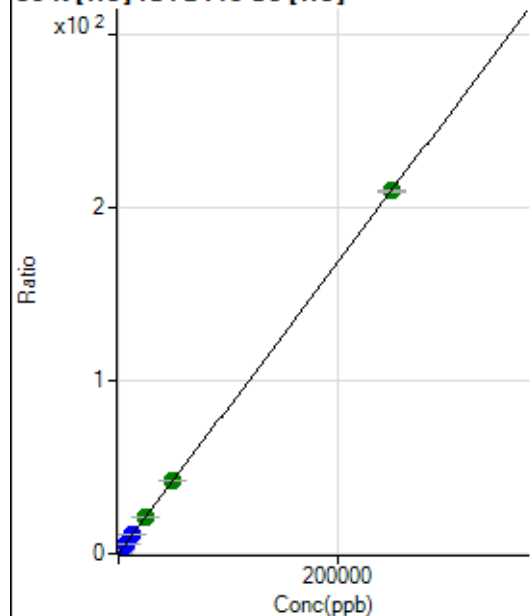
35 Cl [No Gas] No available calibration points



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

35 Cl [He] No available calibration points

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

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	32747.76	0.1310	P	2.8
2	☐	500.000	545.694	146880.72	0.5885	P	1.1
3	☐	2500.000	2799.966	611148.51	2.4787	P	2.7
4	☐	6250.000	6811.379	1433113.07	5.8420	P	0.5
5	☐	12500.000	13530.469	2705876.95	11.4757	P	1.0
6	☐	25000.000	25238.620	4837167.12	21.2925	A	0.3
7	☐	50000.000	50246.161	9484620.00	42.2601	A	1.9
8	☐	250000.00	249858.25	51157609.82	209.6259	A	0.3

$$y = 8.3845E-004 * x + 0.1310$$

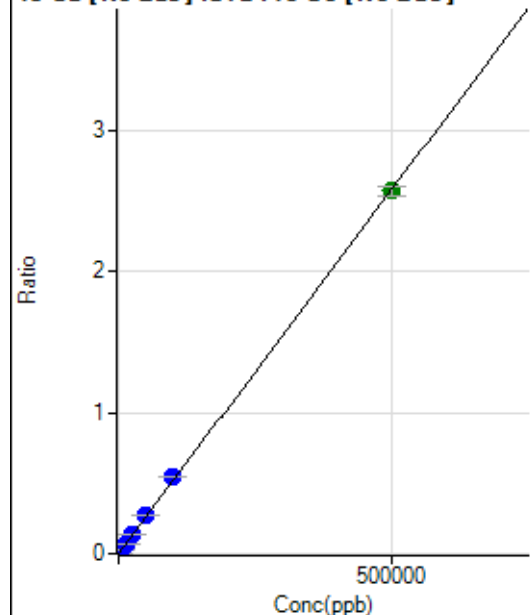
$$R = 1.0000$$

$$DL = 13.34$$

$$BEC = 156.2$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	186.12	0.0001	P	13.3
2	☐	500.000	522.197	9347.60	0.0027	P	6.3
3	☐	5000.000	5314.597	95526.40	0.0275	P	1.8
4	☐	12500.000	13188.700	230828.51	0.0681	P	0.7
5	☐	25000.000	26144.778	440652.22	0.1349	P	0.9
6	☐	50000.000	52841.267	846537.58	0.2727	P	0.5
7	☐	100000.00	104717.67	1648011.00	0.5403	P	0.4
8	☐	500000.00	498694.71	7902725.70	2.5729	A	2.5

$$y = 5.1591\text{E-}006 * x + 5.4270\text{E-}005$$

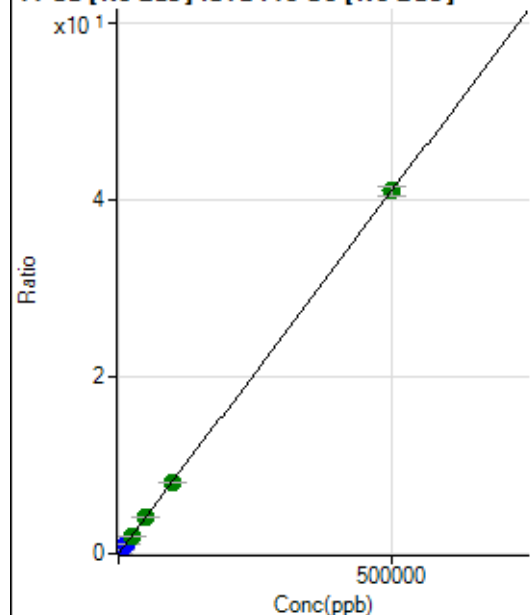
$$R = 0.9999$$

$$DL = 4.182$$

$$BEC = 10.52$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5151.03	0.0015	P	4.7
2	☐	500.000	525.509	151506.69	0.0445	P	2.3
3	☐	5000.000	5214.492	1490206.04	0.4285	P	0.5
4	☐	12500.000	13009.949	3616699.65	1.0669	P	0.7
5	☐	25000.000	24516.592	6561508.39	2.0093	A	0.8
6	☐	50000.000	49329.714	12546826.41	4.0413	A	0.9
7	☐	100000.00	98162.095	24524344.99	8.0404	A	0.8
8	☐	500000.00	500443.86	125890354.2	40.9849	A	2.5

$$y = 8.1894\text{E-}005 * x + 0.0015$$

$$R = 1.0000$$

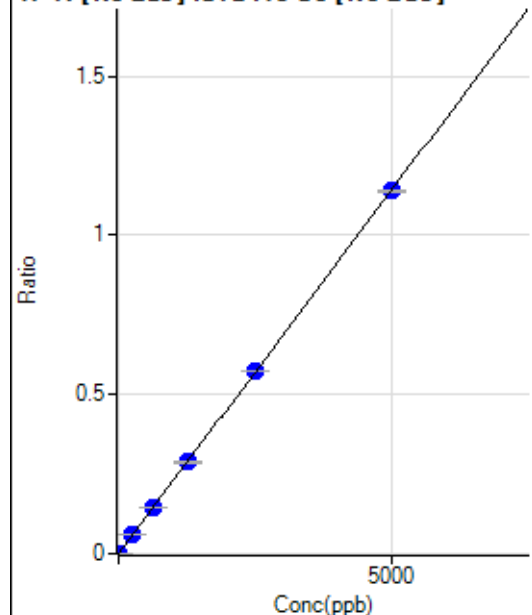
$$DL = 2.611$$

$$BEC = 18.35$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	27.78	0.0000	P	18.2
2	☐	5.000	5.132	4011.78	0.0012	P	3.0
3	☐	250.000	253.288	201061.80	0.0578	P	0.5
4	☐	625.000	628.436	486275.18	0.1434	P	0.7
5	☐	1250.000	1258.706	938265.05	0.2873	P	0.5
6	☐	2500.000	2512.540	1780514.97	0.5735	P	0.4
7	☐	5000.000	4990.959	3474755.24	1.1392	P	0.5
8	☐			700.04	0.0002	P	10.5

$$y = 2.2825E-004 * x + 8.1102E-006$$

$$R = 1.0000$$

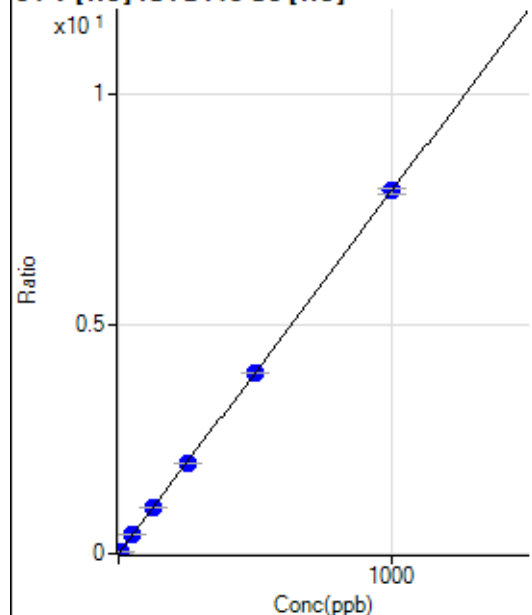
$$DL = 0.0194$$

$$BEC = 0.03553$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	4.44	0.0000	P	43.0
2	☐	5.000	5.231	10311.45	0.0413	P	3.9
3	☐	50.000	51.644	100526.64	0.4078	P	3.4
4	☐	125.000	125.804	243665.49	0.9933	P	0.4
5	☐	250.000	249.694	464834.45	1.9714	P	1.7
6	☐	500.000	497.805	892893.49	3.9304	P	0.6
7	☐	1000.000	1000.990	1773853.39	7.9032	P	1.4
8	☐			285.56	0.0012	P	6.7

$$y = 0.0079 * x + 1.7758E-005$$

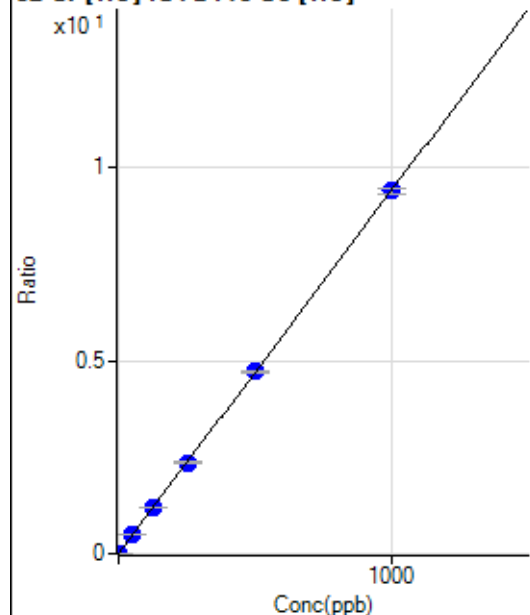
$$R = 1.0000$$

$$DL = 0.0029$$

$$BEC = 0.002249$$

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	675.58	0.0027	P	2.2
2	☐	2.000	2.112	5637.80	0.0226	P	1.5
3	☐	50.000	52.004	121362.77	0.4923	P	3.5
4	☐	125.000	126.349	292447.21	1.1922	P	1.5
5	☐	250.000	251.032	557872.72	2.3661	P	1.7
6	☐	500.000	500.692	1071481.14	4.7165	P	0.5
7	☐	1000.000	999.127	2111806.84	9.4090	P	1.5
8	☐			14399.35	0.0590	P	1.2

$$y = 0.0094 * x + 0.0027$$

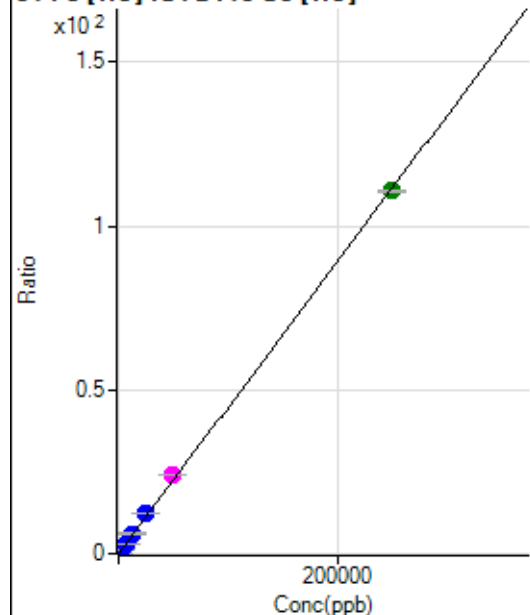
$$R = 1.0000$$

$$DL = 0.01873$$

$$BEC = 0.2871$$

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	740.79	0.0030	P	11.7
2	☐	50.000	62.110	7633.18	0.0306	P	1.6
3	☐	2500.000	2850.313	313271.71	1.2705	P	2.7
4	☐	6250.000	6914.462	755052.02	3.0779	P	0.9
5	☐	12500.000	13797.065	1447393.10	6.1388	P	2.0
6	☐	25000.000	27555.235	2784573.04	12.2572	P	0.6
7	☐	50000.000	54219.728	5413207.34	24.1154	M	0.6
8	☐	250000.00	248815.56	27004007.85	110.6555	A	0.6

$$y = 4.4472E-004 * x + 0.0030$$

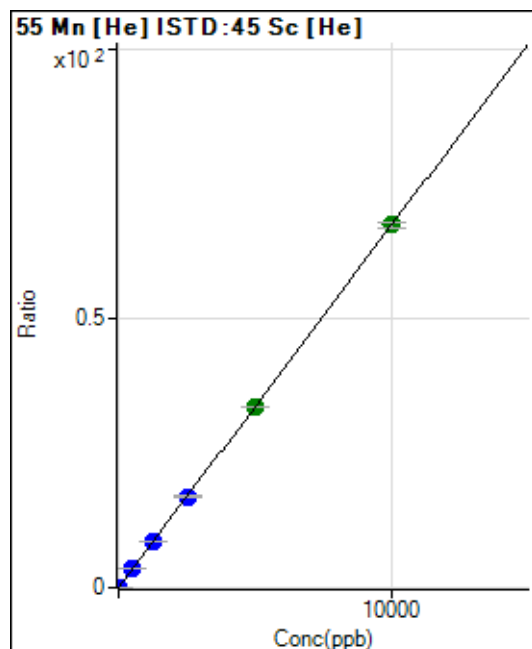
$$R = 0.9998$$

$$DL = 2.348$$

$$BEC = 6.668$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	85.56	0.0003	P	13.7
2	☐	1.000	1.005	1775.68	0.0071	P	3.9
3	☐	500.000	515.857	857472.93	3.4782	P	3.4
4	☐	1250.000	1256.506	2078213.63	8.4715	P	0.5
5	☐	2500.000	2514.287	3996777.47	16.9513	P	1.8
6	☐	5000.000	4974.580	7619105.79	33.5382	A	0.5
7	☐	10000.000	10007.532	15142985.33	67.4695	A	1.6
8	☐			15025.55	0.0616	P	2.0

$$y = 0.0067 * x + 3.4233E-004$$

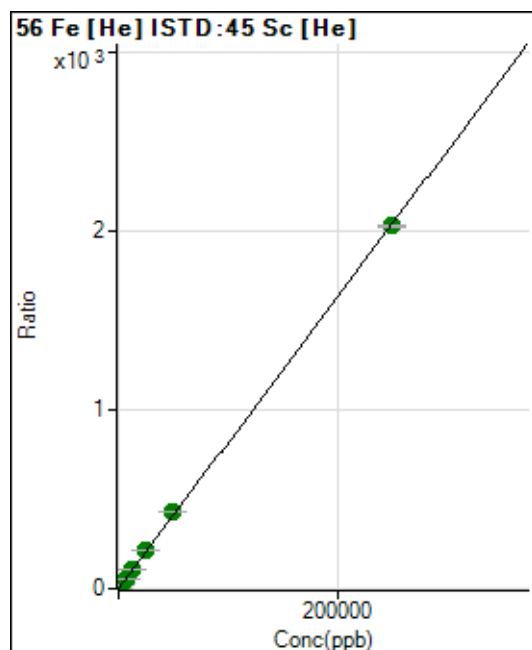
$$R = 1.0000$$

$$DL = 0.02092$$

$$BEC = 0.05078$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3739.43	0.0150	P	7.4
2	☐	50.000	57.084	119751.15	0.4799	P	2.5
3	☐	2500.000	2722.093	5469076.63	22.1851	A	3.6
4	☐	6250.000	6573.918	13138672.17	53.5563	A	0.3
5	☐	12500.000	13287.144	25519338.76	108.2322	A	1.6
6	☐	25000.000	26370.000	48794606.65	214.7856	A	0.9
7	☐	50000.000	52854.514	96622849.38	430.4888	A	1.3
8	☐	250000.00	249242.42	495418144.4	2,029.971	A	0.9

$$y = 0.0081 * x + 0.0150$$

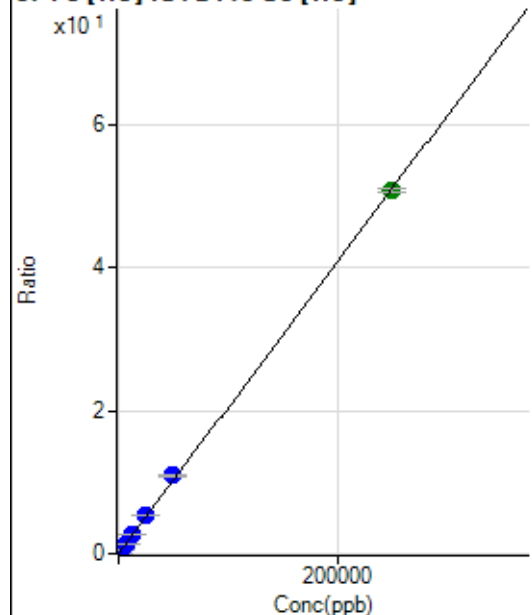
$$R = 0.9999$$

$$DL = 0.4081$$

$$BEC = 1.837$$

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	155.56	0.0006	P	15.2
2	☐	50.000	57.218	3059.64	0.0123	P	3.3
3	☐	2500.000	2782.717	139699.14	0.5666	P	2.8
4	☐	6250.000	6812.207	340049.29	1.3862	P	0.6
5	☐	12500.000	13486.020	646897.13	2.7435	P	1.1
6	☐	25000.000	26776.199	1237349.52	5.4466	P	0.2
7	☐	50000.000	53579.303	2446046.04	10.8981	P	1.3
8	☐	250000.00	249040.33	12360727.25	50.6528	A	1.1

$$y = 2.0339\text{E-}004 * x + 6.2212\text{E-}004$$

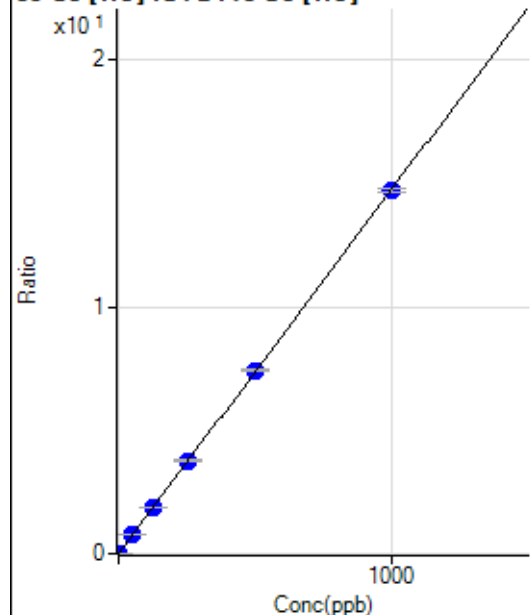
$$R = 0.9999$$

$$DL = 1.393$$

$$BEC = 3.059$$

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	74.45	0.0003	P	14.0
2	☐	1.000	1.056	3960.57	0.0159	P	1.0
3	☐	50.000	53.041	192973.12	0.7826	P	2.6
4	☐	125.000	128.013	463235.18	1.8884	P	0.9
5	☐	250.000	254.340	884593.66	3.7517	P	1.6
6	☐	500.000	503.830	1688299.66	7.4316	P	0.7
7	☐	1000.000	996.471	3298964.15	14.6979	P	1.2
8	☐			5606.67	0.0230	P	1.6

$$y = 0.0147 * x + 2.9773\text{E-}004$$

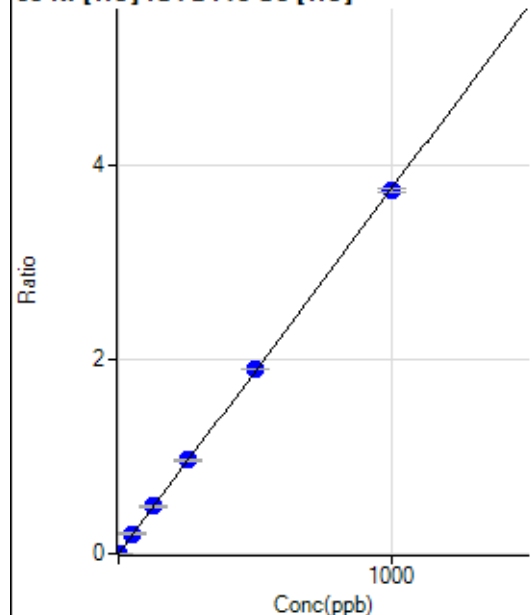
$$R = 1.0000$$

$$DL = 0.008473$$

$$BEC = 0.02019$$

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	116.67	0.0005	P	14.8
2	☐	1.000	1.150	1193.40	0.0048	P	8.5
3	☐	50.000	54.422	50506.56	0.2049	P	3.4
4	☐	125.000	129.281	119230.26	0.4860	P	1.3
5	☐	250.000	256.725	227456.89	0.9647	P	1.7
6	☐	500.000	506.567	432332.54	1.9031	P	0.4
7	☐	1000.000	994.279	838287.28	3.7348	P	1.2
8	☐			4426.26	0.0181	P	1.1

$$y = 0.0038 * x + 4.6665E-004$$

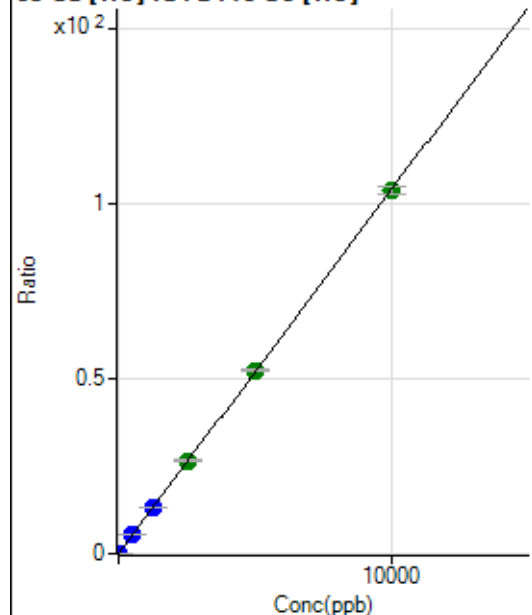
$$R = 0.9999$$

$$DL = 0.0553$$

$$BEC = 0.1242$$

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	594.46	0.0024	P	5.3
2	☐	2.000	2.020	5836.77	0.0234	P	0.9
3	☐	500.000	532.832	1366811.52	5.5437	P	2.9
4	☐	1250.000	1278.787	3262975.33	13.3013	P	0.6
5	☐	2500.000	2548.900	6250644.35	26.5101	A	1.7
6	☐	5000.000	5037.394	11901782.46	52.3896	A	0.5
7	☐	10000.000	9963.838	23256096.88	103.6230	A	2.2
8	☐			8310.21	0.0341	P	2.9

$$y = 0.0104 * x + 0.0024$$

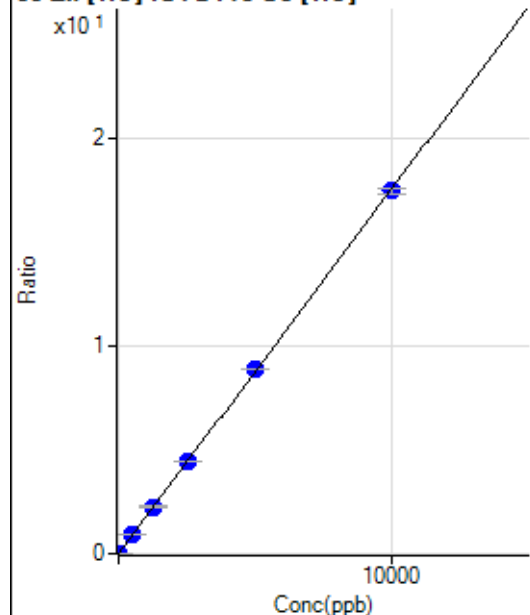
$$R = 1.0000$$

$$DL = 0.03633$$

$$BEC = 0.2287$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	383.34	0.0015	P	4.4
2	☐	2.000	2.149	1324.52	0.0053	P	1.0
3	☐	500.000	529.430	229514.07	0.9310	P	3.3
4	☐	1250.000	1285.402	553911.63	2.2581	P	1.1
5	☐	2500.000	2539.903	1051722.76	4.4604	P	1.1
6	☐	5000.000	5057.872	2017521.13	8.8808	P	0.4
7	☐	10000.000	9955.192	3922901.54	17.4783	P	1.5
8	☐			10575.00	0.0433	P	1.1

$$y = 0.0018 * x + 0.0015$$

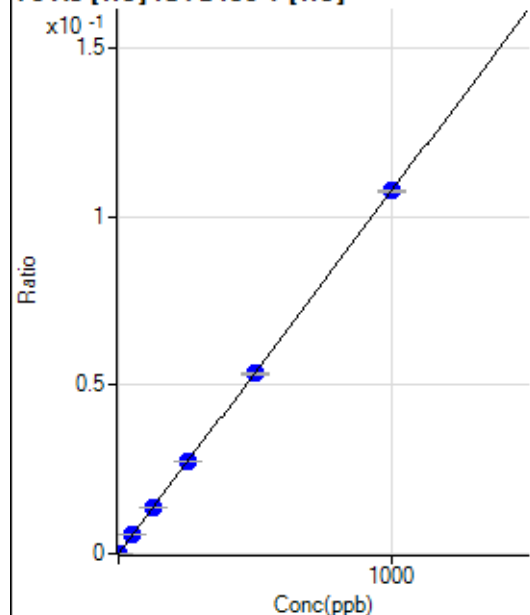
$$R = 1.0000$$

$$DL = 0.1141$$

$$BEC = 0.8735$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3.70	0.0000	P	50.3
2	☐	1.000	1.056	268.52	0.0001	P	6.7
3	☐	50.000	52.335	13105.93	0.0056	P	3.5
4	☐	125.000	127.730	31876.78	0.0138	P	1.3
5	☐	250.000	253.328	60776.79	0.0273	P	0.7
6	☐	500.000	497.180	117279.21	0.0535	P	1.0
7	☐	1000.000	1000.120	231716.41	0.1077	P	0.8
8	☐			95.68	0.0000	P	18.2

$$y = 1.0766E-004 * x + 1.5942E-006$$

$$R = 1.0000$$

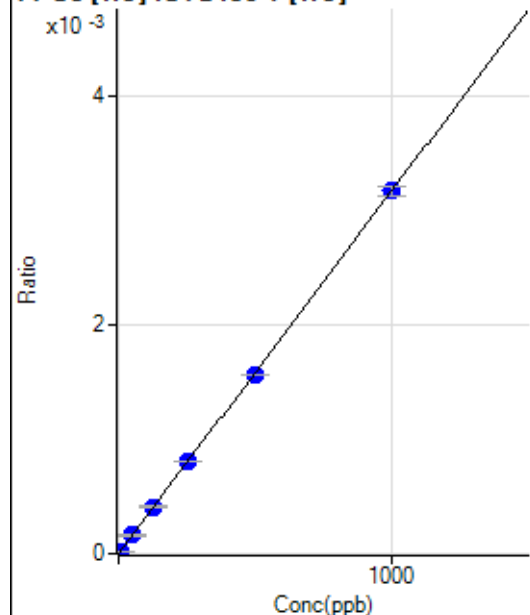
$$DL = 0.02235$$

$$BEC = 0.01481$$

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	5.583	41.11	0.0000	P	28.5
3	☐	50.000	50.968	375.56	0.0002	P	11.6
4	☐	125.000	129.605	950.04	0.0004	P	1.9
5	☐	250.000	254.169	1791.24	0.0008	P	1.3
6	☐	500.000	494.885	3429.33	0.0016	P	0.4
7	☐	1000.000	1000.888	6811.67	0.0032	P	2.5
8	☐			2.22	0.0000	P	86.6

$$y = 3.1626\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 1.0000$$

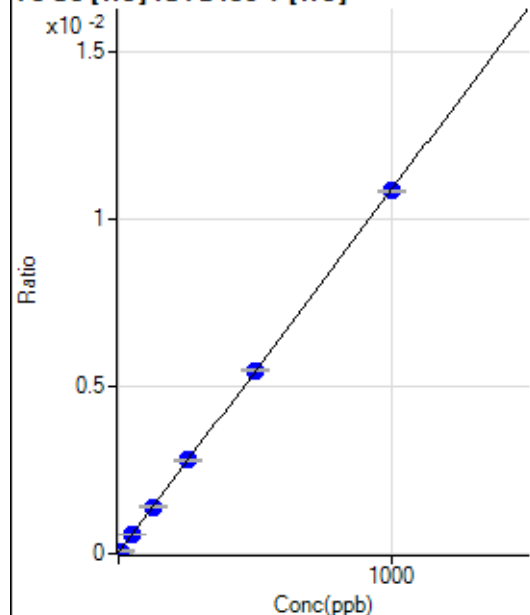
$$DL = 0$$

$$BEC = 0$$

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	69.14	0.0000	P	13.0
2	☐	5.000	5.054	196.92	0.0001	P	11.1
3	☐	50.000	51.151	1359.33	0.0006	P	3.3
4	☐	125.000	125.959	3235.57	0.0014	P	3.6
5	☐	250.000	256.490	6265.58	0.0028	P	1.9
6	☐	500.000	502.968	12018.58	0.0055	P	1.6
7	☐	1000.000	996.716	23331.07	0.0108	P	0.3
8	☐			71.61	0.0000	P	18.8

$$y = 1.0847\text{E-}005 * x + 2.9736\text{E-}005$$

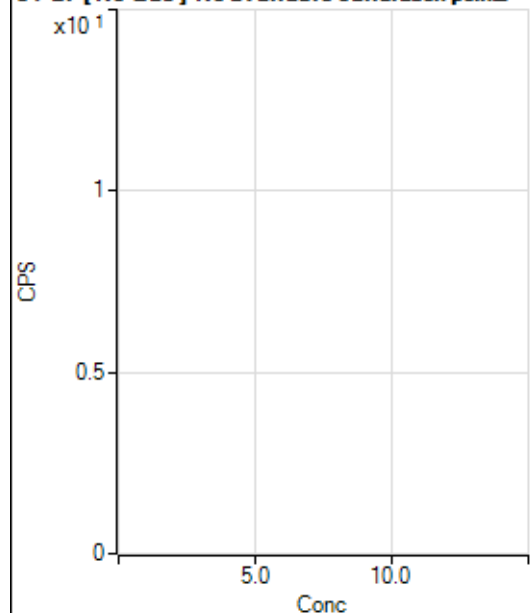
$$R = 1.0000$$

$$DL = 1.07$$

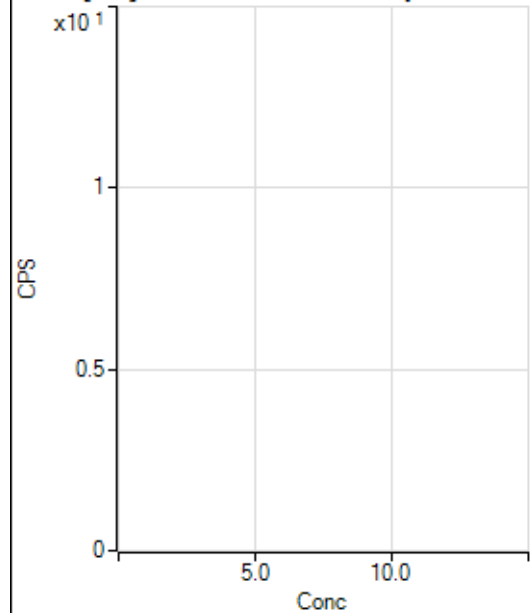
$$BEC = 2.741$$

Weight: <None>

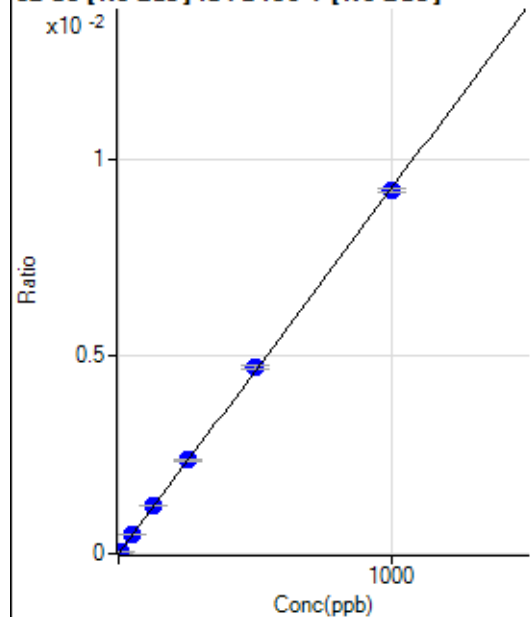
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6985.20		P	6.9
2	☐			6626.71		P	2.5
3	☐			6754.58		P	5.6
4	☐			6257.11		P	4.8
5	☐			6068.08		P	4.4
6	☐			5562.36		P	1.5
7	☐			5554.02		P	6.0
8	☐			5690.15		P	0.4

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			50.05		P	40.0
2	☐			36.70		P	15.7
3	☐			33.37		P	62.4
4	☐			46.71		P	49.5
5	☐			33.37		P	45.8
6	☐			40.04		P	25.0
7	☐			56.72		P	40.8
8	☐			36.70		P	41.7

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	20.41	0.0000	P	116.
2	☐	5.000	5.114	512.29	0.0000	P	7.5
3	☐	50.000	53.432	5286.96	0.0005	P	1.8
4	☐	125.000	130.264	12796.25	0.0012	P	1.8
5	☐	250.000	257.632	24706.82	0.0024	P	1.9
6	☐	500.000	508.240	46943.46	0.0047	P	2.0
7	☐	1000.000	993.142	91244.57	0.0092	P	1.2
8	☐			27.90	0.0000	P	35.3

$$y = 9.2437\text{E-}006 * x + 1.9180\text{E-}006$$

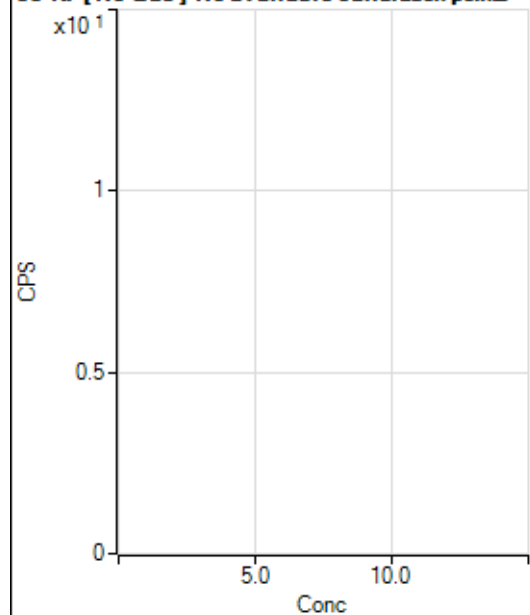
$$R = 0.9999$$

$$DL = 0.7275$$

$$BEC = 0.2075$$

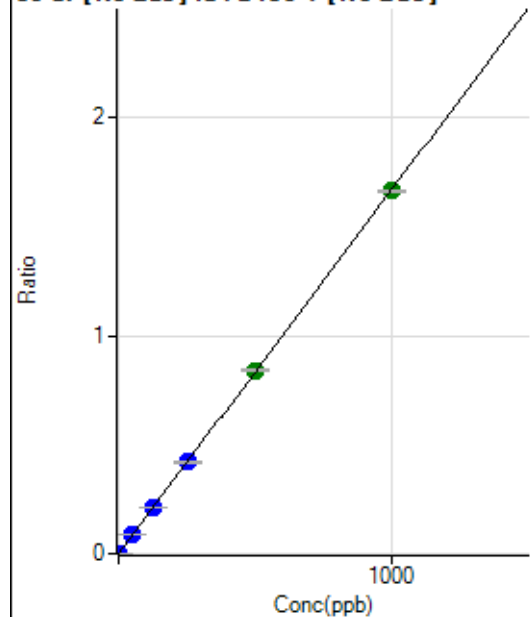
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			446.68		P	5.2
2	☐			484.46		P	8.7
3	☐			483.34		P	9.1
4	☐			448.90		P	6.9
5	☐			454.46		P	13.8
6	☐			432.23		P	9.9
7	☐			441.12		P	13.4
8	☐			406.67		P	3.8

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	786.16	0.0001	P	16.2
2	☐	1.000	0.115	2764.22	0.0003	P	9.3
3	☐	50.000	51.150	909894.86	0.0853	P	0.3
4	☐	125.000	125.496	2220304.93	0.2092	P	0.5
5	☐	250.000	251.545	4347155.78	0.4193	P	1.0
6	☐	500.000	503.969	8391004.62	0.8401	A	1.7
7	☐	1000.000	997.510	16523080.58	1.6627	A	0.8
8	☐			4814.84	0.0005	P	4.4

$$y = 0.0017 * x + 7.4314E-005$$

$$R = 1.0000$$

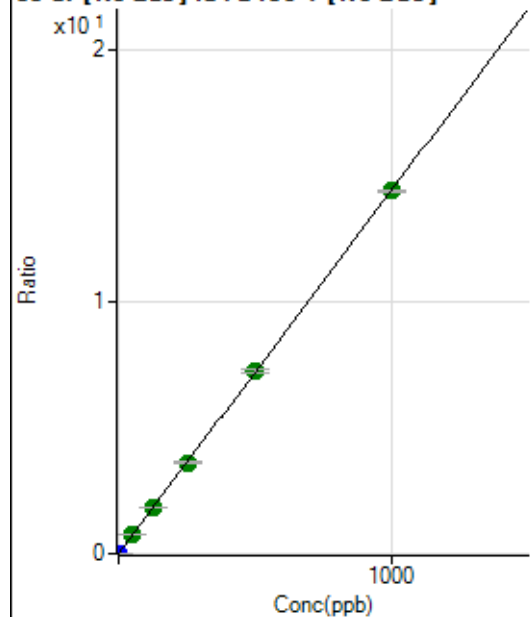
$$DL = 0.02165$$

$$BEC = 0.04459$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	369.46	0.0000	P	23.7
2	☐	1.000	0.116	17714.02	0.0017	P	3.5
3	☐	50.000	50.815	7808741.06	0.7323	A	0.2
4	☐	125.000	124.765	19078600.08	1.7980	A	0.3
5	☐	250.000	251.157	37521248.06	3.6194	A	0.7
6	☐	500.000	502.326	72305550.23	7.2389	A	1.6
7	☐	1000.000	998.537	142996087.9	14.3897	A	0.5
8	☐			35951.16	0.0036	P	2.0

$$y = 0.0144 * x + 3.4947E-005$$

$$R = 1.0000$$

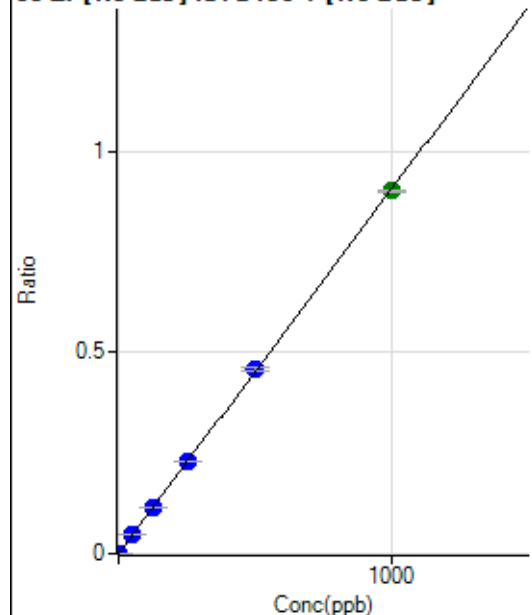
$$DL = 0.001728$$

$$BEC = 0.002425$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	552.80	0.0001	P	16.6
2	☐	1.000	0.992	9903.67	0.0010	P	3.7
3	☐	50.000	50.912	492264.36	0.0462	P	0.4
4	☐	125.000	126.144	1212860.35	0.1143	P	0.5
5	☐	250.000	253.509	2380797.04	0.2297	P	0.7
6	☐	500.000	506.671	4584236.60	0.4590	P	1.5
7	☐	1000.000	995.599	8961229.97	0.9018	A	0.8
8	☐			1861.29	0.0002	P	4.8

$$y = 9.0571\text{E-}004 * x + 5.2267\text{E-}005$$

$$R = 1.0000$$

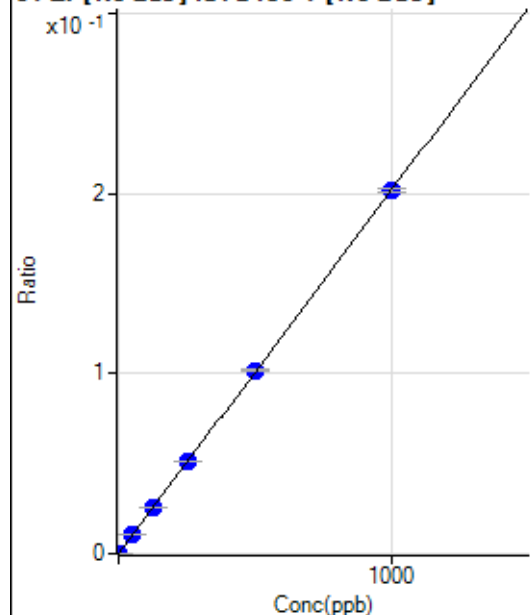
$$DL = 0.0287$$

$$BEC = 0.05771$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	127.78	0.0000	P	37.3
2	☐	1.000	0.955	2133.55	0.0002	P	5.8
3	☐	50.000	50.399	108642.07	0.0102	P	0.1
4	☐	125.000	126.101	270308.19	0.0255	P	0.2
5	☐	250.000	252.223	528094.00	0.0509	P	0.2
6	☐	500.000	502.694	1014002.86	0.1015	P	1.1
7	☐	1000.000	997.940	2002422.33	0.2015	P	1.2
8	☐			352.79	0.0000	P	24.9

$$y = 2.0191\text{E-}004 * x + 1.2066\text{E-}005$$

$$R = 1.0000$$

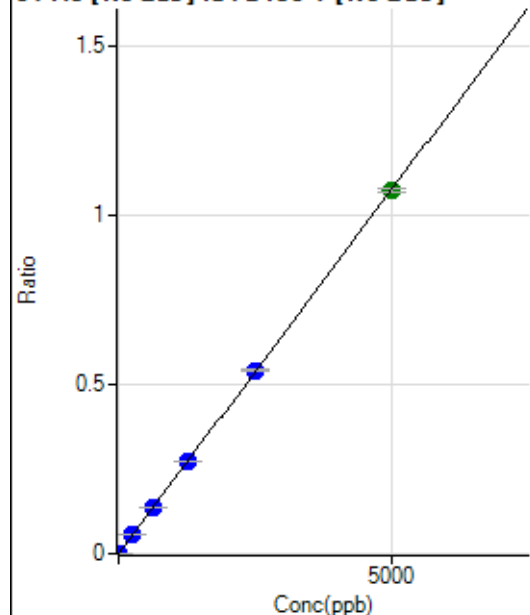
$$DL = 0.06694$$

$$BEC = 0.05976$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	152.78	0.0000	P	34.1
2	☐	5.000	5.182	11755.11	0.0011	P	1.3
3	☐	250.000	254.777	584188.74	0.0548	P	0.6
4	☐	625.000	630.717	1438897.44	0.1356	P	0.4
5	☐	1250.000	1267.086	2823941.56	0.2724	P	1.0
6	☐	2500.000	2521.893	5415408.80	0.5422	P	1.6
7	☐	5000.000	4983.828	10647072.81	1.0714	A	1.2
8	☐			3575.54	0.0004	P	3.4

$$y = 2.1498\text{E-}004 * x + 1.4413\text{E-}005$$

$$R = 1.0000$$

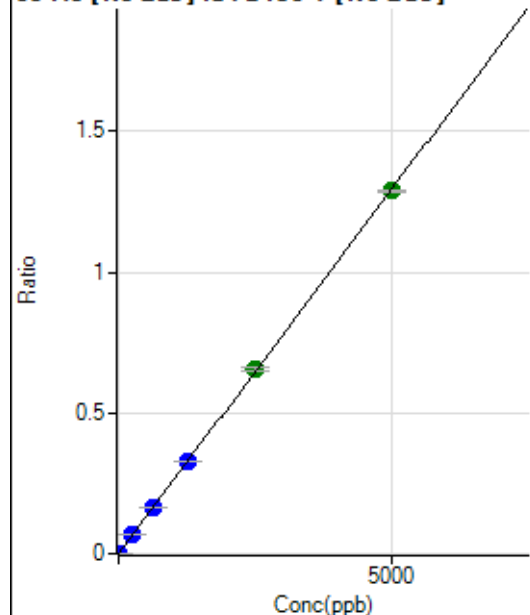
$$DL = 0.06858$$

$$BEC = 0.06704$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	30.55	0.0000	P	16.0
2	☐	5.000	5.405	14596.72	0.0014	P	2.8
3	☐	250.000	256.395	707344.48	0.0663	P	0.2
4	☐	625.000	632.326	1735849.97	0.1636	P	0.4
5	☐	1250.000	1270.440	3407158.62	0.3287	P	1.2
6	☐	2500.000	2525.807	6526633.39	0.6535	A	2.2
7	☐	5000.000	4980.750	12805168.34	1.2886	A	0.4
8	☐			4864.85	0.0005	P	6.0

$$y = 2.5871\text{E-}004 * x + 2.8881\text{E-}006$$

$$R = 1.0000$$

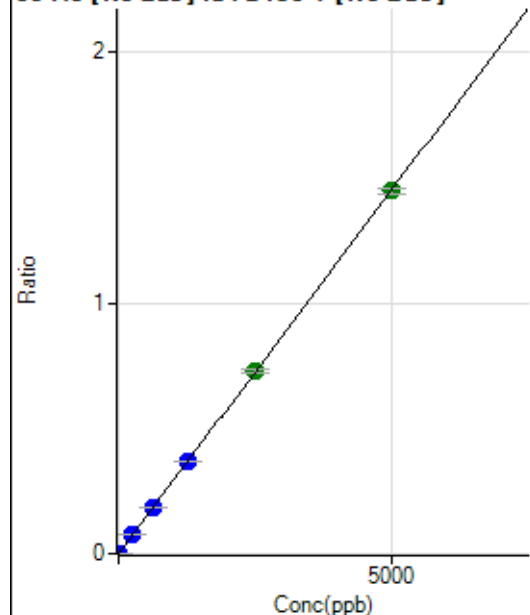
$$DL = 0.005364$$

$$BEC = 0.01116$$

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	77.78	0.0000	P	5.7
2	☐	5.000	5.252	15950.94	0.0015	P	3.3
3	☐	250.000	256.061	792456.47	0.0743	P	0.8
4	☐	625.000	629.801	1939429.58	0.1828	P	0.3
5	☐	1250.000	1266.020	3808586.07	0.3674	P	1.2
6	☐	2500.000	2509.654	7274096.95	0.7283	A	2.4
7	☐	5000.000	4990.265	14390340.08	1.4482	A	1.4
8	☐			6140.34	0.0006	P	8.6

$$y = 2.9020\text{E-}004 * x + 7.3487\text{E-}006$$

$$R = 1.0000$$

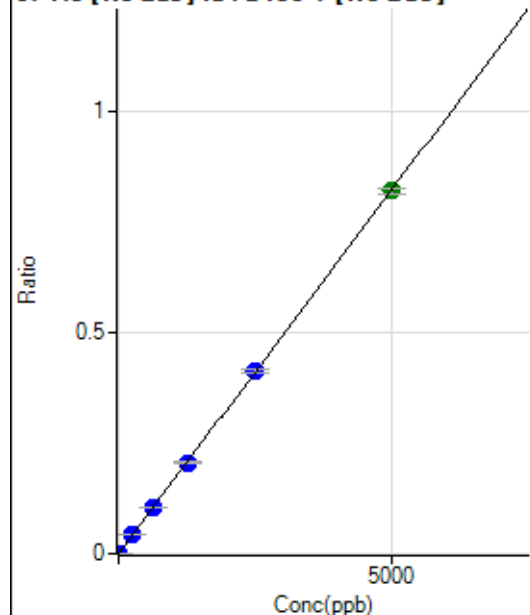
$$DL = 0.004362$$

$$BEC = 0.02532$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2.78	0.0000	P	173.
2	☐	5.000	5.264	9003.05	0.0009	P	3.0
3	☐	250.000	254.753	445846.22	0.0418	P	0.6
4	☐	625.000	628.608	1094720.88	0.1032	P	0.8
5	☐	1250.000	1256.279	2137371.90	0.2062	P	1.2
6	☐	2500.000	2514.459	4121956.82	0.4127	P	1.8
7	☐	5000.000	4990.512	8139022.23	0.8191	A	1.5
8	☐			3033.75	0.0003	P	10.9

$$y = 1.6412\text{E-}004 * x + 2.6152\text{E-}007$$

$$R = 1.0000$$

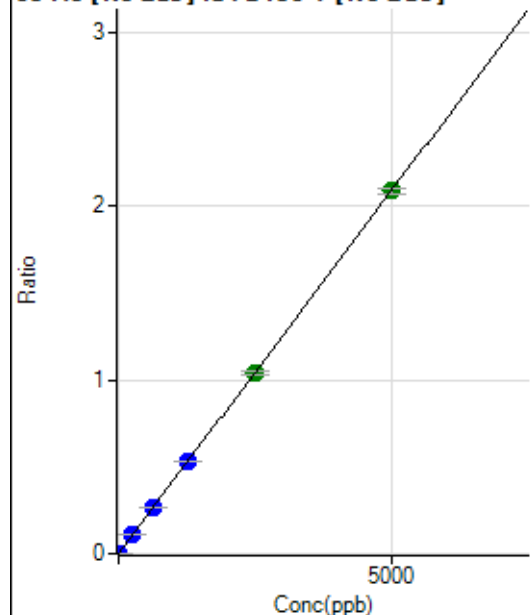
$$DL = 0.00828$$

$$BEC = 0.001593$$

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	47.22	0.0000	P	50.4
2	☐	5.000	5.395	23511.45	0.0023	P	0.7
3	☐	250.000	256.995	1144342.81	0.1073	P	0.2
4	☐	625.000	631.583	2798389.91	0.2637	P	0.8
5	☐	1250.000	1273.398	5512229.94	0.5317	P	0.8
6	☐	2500.000	2492.456	10395231.91	1.0408	A	2.0
7	☐	5000.000	4996.749	20733136.40	2.0865	A	1.5
8	☐			7743.93	0.0008	P	9.6

$$y = 4.1756\text{E-}004 * x + 4.4552\text{E-}006$$

$$R = 1.0000$$

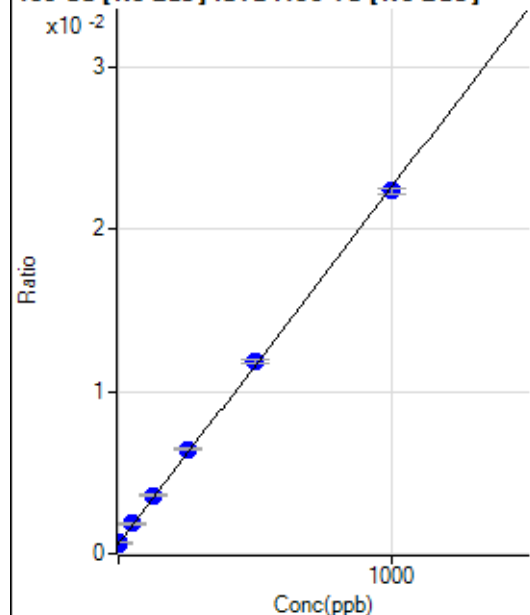
$$DL = 0.01614$$

$$BEC = 0.01067$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4767.60	0.0006	P	3.0
2	☐	1.000	3.828	5340.03	0.0007	P	5.4
3	☐	50.000	55.620	14460.49	0.0018	P	4.6
4	☐	125.000	135.313	28406.70	0.0036	P	1.8
5	☐	250.000	265.641	49743.20	0.0065	P	1.5
6	☐	500.000	509.876	90761.86	0.0118	P	2.0
7	☐	1000.000	989.579	172030.51	0.0224	P	1.4
8	☐			5042.70	0.0007	P	6.6

$$y = 2.1981\text{E-}005 * x + 6.1823\text{E-}004$$

$$R = 0.9998$$

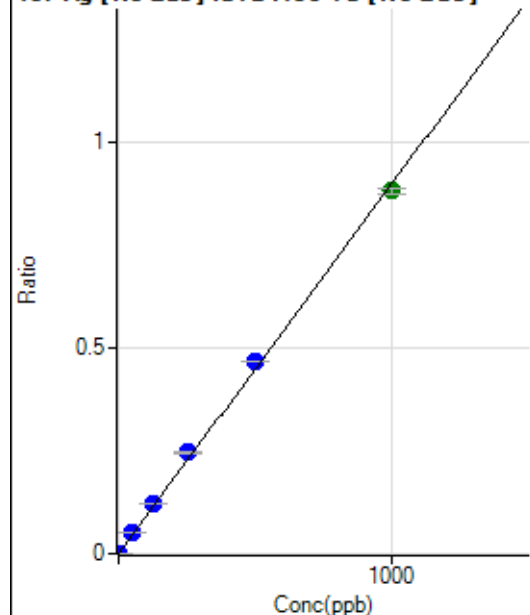
$$DL = 2.546$$

$$BEC = 28.13$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	75.00	0.0000	P	33.5
2	☐	1.000	1.107	7649.47	0.0010	P	2.2
3	☐	50.000	56.935	402330.31	0.0512	P	0.4
4	☐	125.000	137.144	975171.91	0.1233	P	0.6
5	☐	250.000	273.500	1894547.05	0.2459	P	0.5
6	☐	500.000	520.352	3591364.58	0.4679	P	0.9
7	☐	1000.000	982.084	6791174.55	0.8831	A	1.6
8	☐			5847.33	0.0008	P	117.

$$y = 8.9917E-004 * x + 9.7277E-006$$

$$R = 0.9994$$

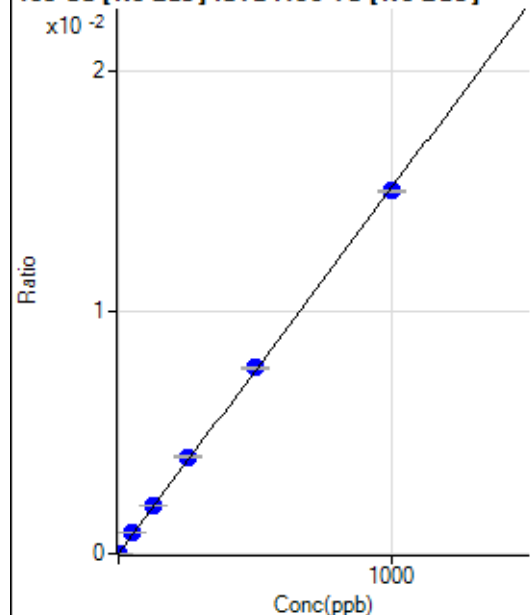
$$DL = 0.01087$$

$$BEC = 0.01082$$

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	50.00	0.0000	P	36.0
2	☐	1.000	1.018	166.67	0.0000	P	12.7
3	☐	50.000	55.813	6684.99	0.0009	P	3.1
4	☐	125.000	130.300	15639.28	0.0020	P	1.0
5	☐	250.000	263.328	30741.73	0.0040	P	1.5
6	☐	500.000	507.536	58989.88	0.0077	P	0.7
7	☐	1000.000	991.947	115471.23	0.0150	P	0.4
8	☐			81.95	0.0000	P	17.1

$$y = 1.5130E-005 * x + 6.4793E-006$$

$$R = 0.9999$$

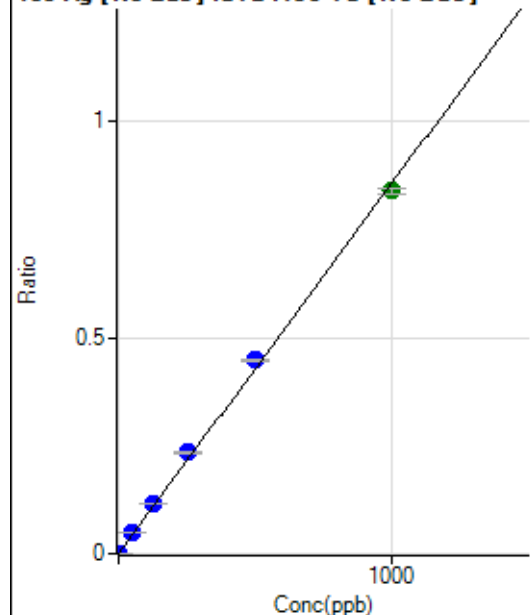
$$DL = 0.4627$$

$$BEC = 0.4283$$

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	5.55	0.0000	P	86.6
2	☐	1.000	1.098	7157.53	0.0009	P	1.6
3	☐	50.000	56.993	383374.65	0.0488	P	0.9
4	☐	125.000	136.929	926956.94	0.1172	P	0.1
5	☐	250.000	273.567	1804227.86	0.2342	P	0.6
6	☐	500.000	523.074	3437180.26	0.4478	P	1.3
7	☐	1000.000	980.731	6457124.88	0.8396	A	1.3
8	☐			1908.91	0.0003	P	16.6

$$y = 8.5613\text{E-}004 * x + 7.1920\text{E-}007$$

$$R = 0.9993$$

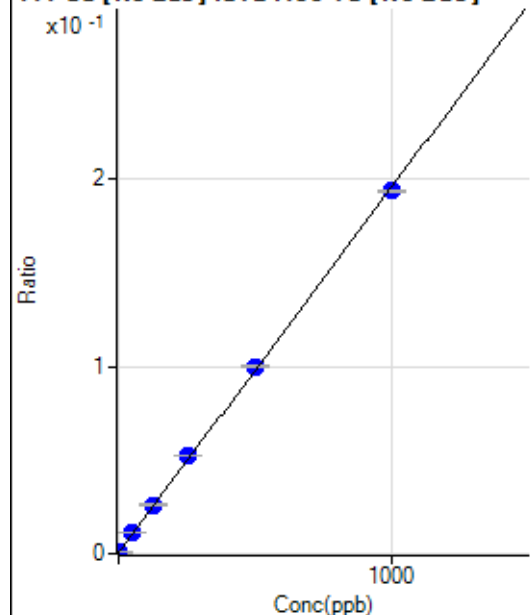
$$DL = 0.002183$$

$$BEC = 0.0008401$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3375.93	0.0004	P	2.7
2	☐	1.000	1.306	5267.30	0.0007	P	4.4
3	☐	50.000	53.977	86253.25	0.0110	P	1.0
4	☐	125.000	131.715	206832.80	0.0262	P	0.3
5	☐	250.000	264.107	400654.08	0.0520	P	0.4
6	☐	500.000	510.207	768051.11	0.1001	P	1.1
7	☐	1000.000	990.331	1490569.39	0.1938	P	0.8
8	☐			3946.15	0.0005	P	6.8

$$y = 1.9527\text{E-}004 * x + 4.3777\text{E-}004$$

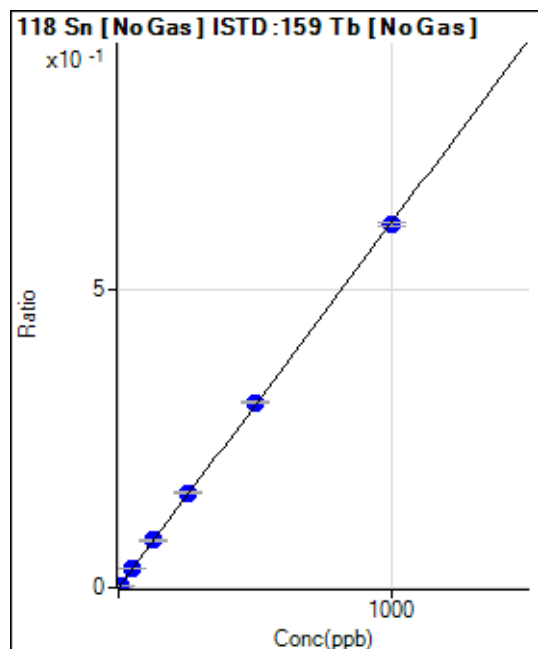
$$R = 0.9998$$

$$DL = 0.1811$$

$$BEC = 2.242$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1097.30	0.0001	P	8.5
2	☐	5.000	5.498	26659.02	0.0035	P	1.9
3	☐	50.000	52.959	255589.14	0.0325	P	0.1
4	☐	125.000	128.880	624326.92	0.0790	P	1.2
5	☐	250.000	260.255	1227161.78	0.1593	P	0.2
6	☐	500.000	506.363	2377854.78	0.3098	P	1.2
7	☐	1000.000	993.619	4674090.08	0.6078	P	1.2
8	☐			2719.79	0.0004	P	4.0

$$y = 6.1154\text{E-}004 * x + 1.4228\text{E-}004$$

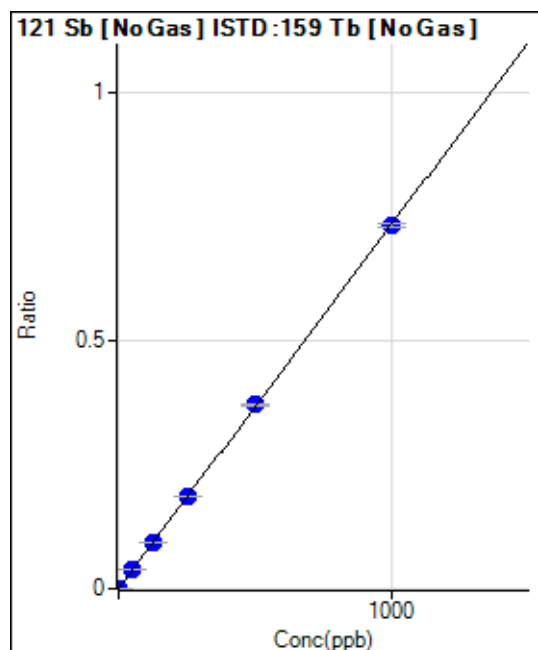
$$R = 0.9999$$

$$DL = 0.05944$$

$$BEC = 0.2327$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	69.45	0.0000	P	58.9
2	☐	2.000	2.107	11846.93	0.0016	P	0.8
3	☐	50.000	51.731	298783.46	0.0380	P	0.5
4	☐	125.000	126.756	736623.60	0.0932	P	1.1
5	☐	250.000	255.694	1447620.09	0.1879	P	0.1
6	☐	500.000	504.366	2845012.91	0.3707	P	1.3
7	☐	1000.000	996.087	5629587.28	0.7320	P	1.1
8	☐			6612.85	0.0009	P	9.3

$$y = 7.3489\text{E-}004 * x + 8.9955\text{E-}006$$

$$R = 1.0000$$

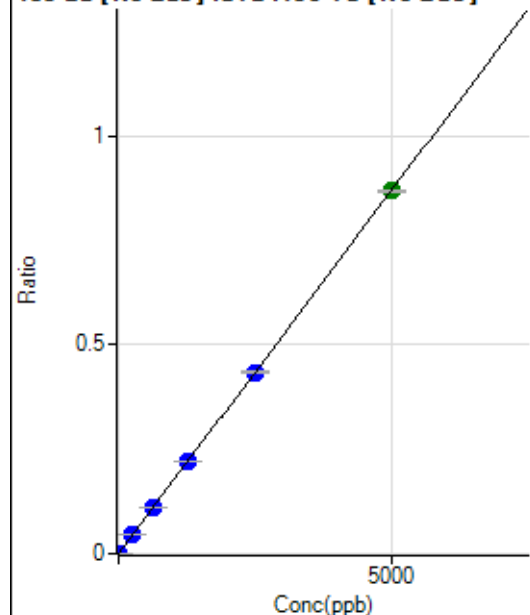
$$DL = 0.02163$$

$$BEC = 0.01224$$

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	27.78	0.0000	P	34.5
2	☐	10.000	10.669	14165.90	0.0019	P	3.5
3	☐	250.000	257.836	352698.02	0.0449	P	0.8
4	☐	625.000	629.220	866169.19	0.1095	P	0.8
5	☐	1250.000	1274.572	1709349.46	0.2219	P	0.4
6	☐	2500.000	2497.726	3337485.62	0.4348	P	1.3
7	☐	5000.000	4994.074	6686335.83	0.8694	A	0.8
8	☐			1747.39	0.0002	P	9.1

$$y = 1.7409\text{E-}004 * x + 3.6001\text{E-}006$$

$$R = 1.0000$$

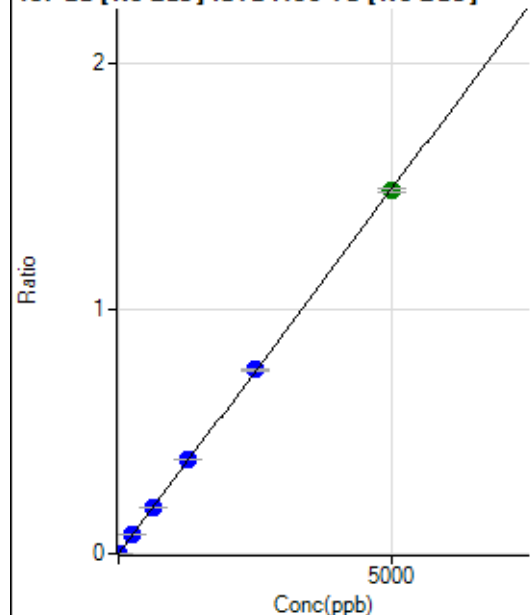
$$DL = 0.02138$$

$$BEC = 0.02068$$

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	36.11	0.0000	P	48.2
2	☐	10.000	10.433	23659.57	0.0031	P	1.6
3	☐	250.000	258.774	605184.15	0.0770	P	0.3
4	☐	625.000	636.673	1498353.62	0.1895	P	0.9
5	☐	1250.000	1286.248	2949093.92	0.3828	P	0.4
6	☐	2500.000	2522.947	5763444.75	0.7509	P	1.2
7	☐	5000.000	4977.566	11393327.51	1.4814	A	1.0
8	☐			3122.66	0.0004	P	5.1

$$y = 2.9762\text{E-}004 * x + 4.6865\text{E-}006$$

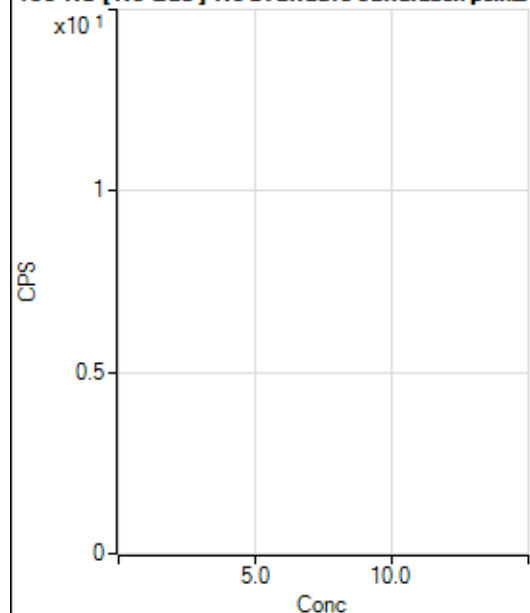
$$R = 1.0000$$

$$DL = 0.02275$$

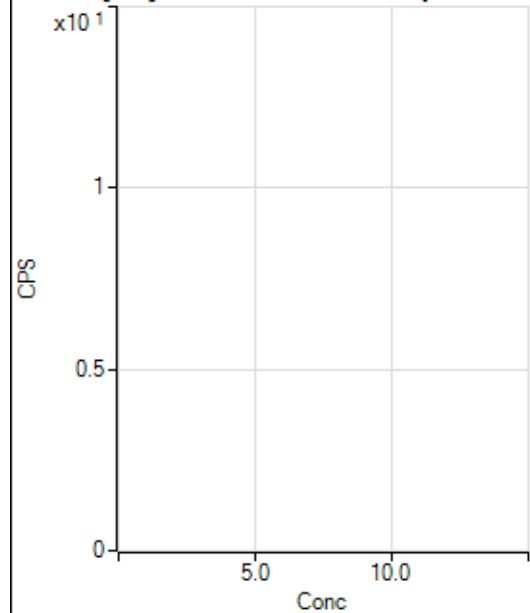
$$BEC = 0.01575$$

Weight: <None>

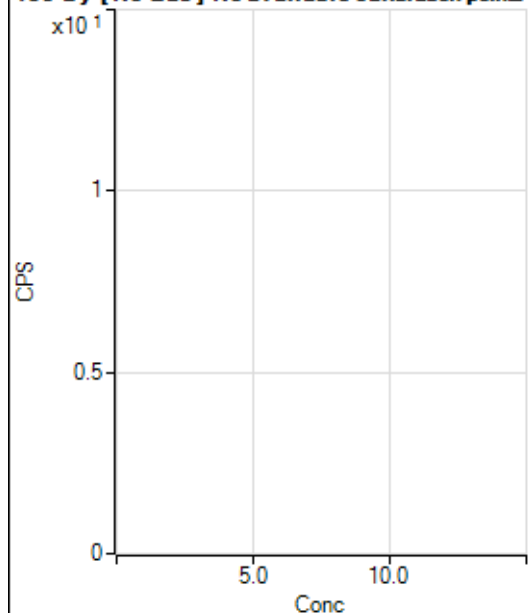
Min Conc: 0

150 Nd [No Gas] No available calibration points

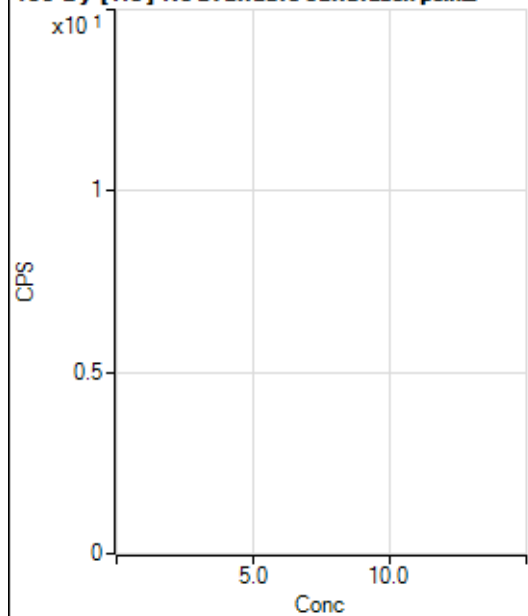
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			6.67		P	173.
3	☐			26.67		P	90.1
4	☐			86.67		P	23.1
5	☐			180.00		P	17.0
6	☐			300.01		P	16.8
7	☐			722.26		P	6.9
8	☐			13.34		P	86.6

150 Nd [He] No available calibration points

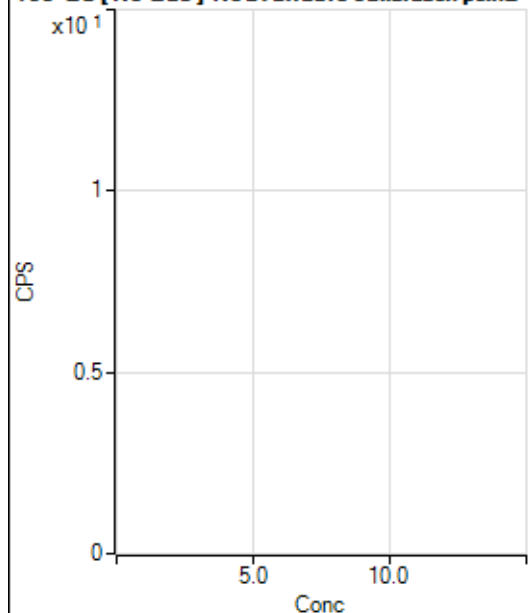
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	86.6
2	☐			0.00		P	
3	☐			7.78		P	89.2
4	☐			22.22		P	31.2
5	☐			26.67		P	37.5
6	☐			48.89		P	20.8
7	☐			117.78		P	7.1
8	☐			12.22		P	56.8

156 Dy [No Gas] No available calibration points

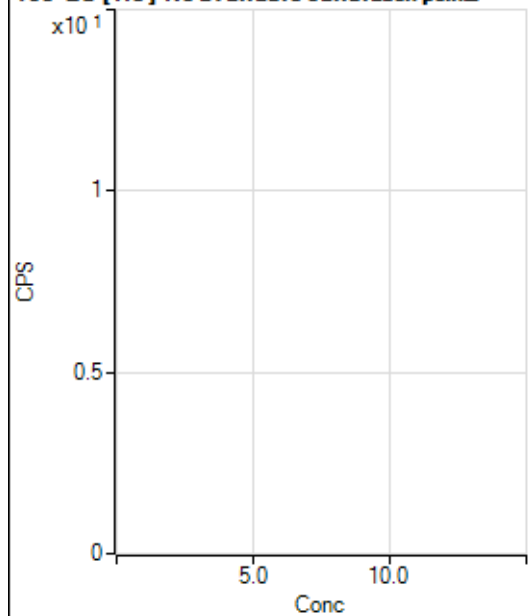
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.33		P	100.
2	☐			0.00		P	
3	☐			19.44		P	49.5
4	☐			41.67		P	40.0
5	☐			72.22		P	35.2
6	☐			150.01		P	14.7
7	☐			372.24		P	6.5
8	☐			950.06		P	4.6

156 Dy [He] No available calibration points

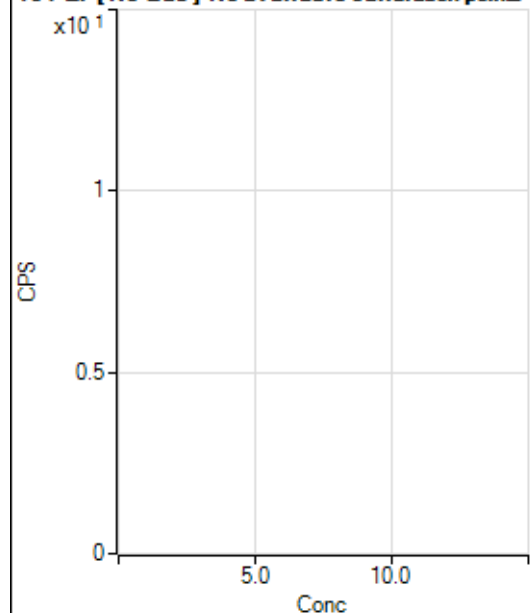
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			6.67		P	86.6
3	☐			17.78		P	39.0
4	☐			31.11		P	27.0
5	☐			72.22		P	10.7
6	☐			167.78		P	5.7
7	☐			288.90		P	9.3
8	☐			711.14		P	4.7

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

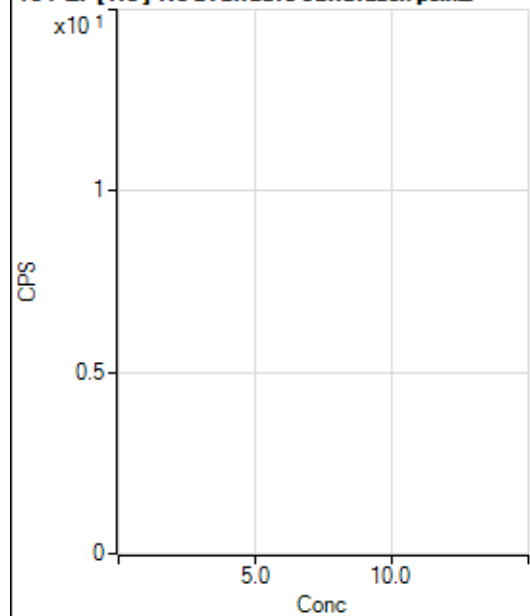
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			50.00		P	28.9
2	☐			44.44		P	28.6
3	☐			44.44		P	28.6
4	☐			75.00		P	22.2
5	☐			100.00		P	30.0
6	☐			133.34		P	25.0
7	☐			286.12		P	4.4
8	☐			1213.97		P	3.9

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			122.22		P	3.2
2	☐			121.11		P	20.8
3	☐			115.56		P	13.6
4	☐			121.11		P	7.9
5	☐			160.00		P	7.2
6	☐			167.78		P	21.9
7	☐			276.67		P	14.6
8	☐			870.04		P	11.2

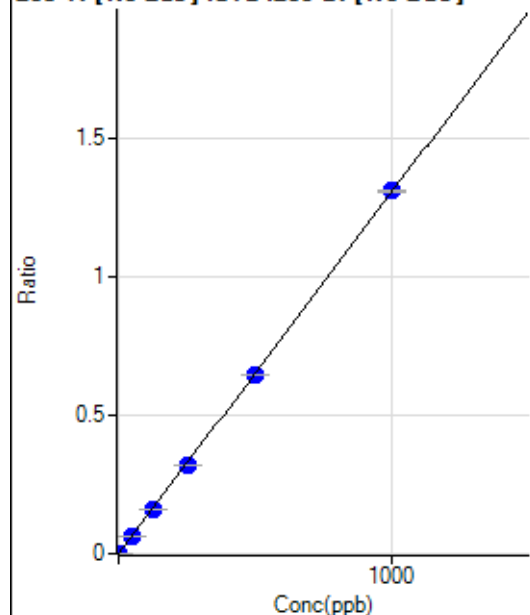
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			33.33		P	25.0
2	☐			50.00		P	60.1
3	☐			44.45		P	47.2
4	☐			69.45		P	34.6
5	☐			50.00		P	44.1
6	☐			77.78		P	27.0
7	☐			130.56		P	31.5
8	☐			205.56		P	22.3

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			32.22		P	23.9
2	☐			42.22		P	39.7
3	☐			24.44		P	34.3
4	☐			41.11		P	32.8
5	☐			41.11		P	20.4
6	☐			56.67		P	41.2
7	☐			91.11		P	31.5
8	☐			133.34		P	12.5

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	372.24	0.0001	P	10.5
2	☐	1.000	0.964	6876.97	0.0013	P	0.8
3	☐	50.000	49.150	338770.10	0.0641	P	0.9
4	☐	125.000	122.761	852090.04	0.1600	P	0.5
5	☐	250.000	245.299	1666126.39	0.3196	P	0.7
6	☐	500.000	494.659	3305845.56	0.6444	P	0.7
7	☐	1000.000	1004.168	6633218.38	1.3080	P	0.6
8	☐			3167.14	0.0007	P	11.7

$$y = 0.0013 * x + 7.1392E-005$$

$$R = 1.0000$$

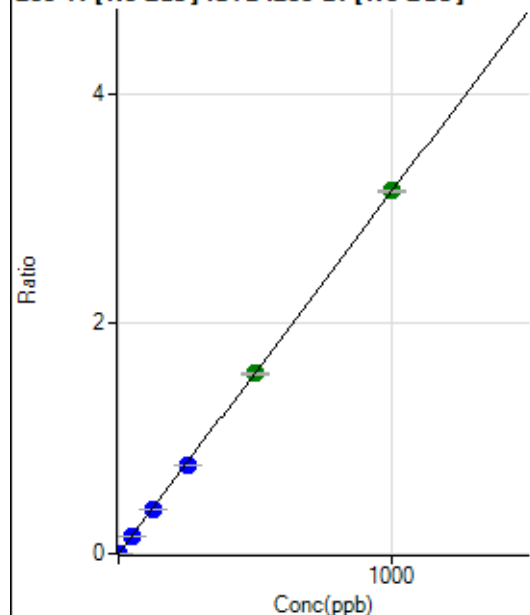
$$DL = 0.01731$$

$$BEC = 0.05481$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	838.94	0.0002	P	6.9
2	☐	1.000	0.967	16591.22	0.0032	P	2.7
3	☐	50.000	48.707	810983.48	0.1534	P	1.0
4	☐	125.000	121.582	2038695.55	0.3827	P	0.2
5	☐	250.000	243.772	4000078.95	0.7672	P	0.2
6	☐	500.000	498.019	8040237.42	1.5672	A	1.3
7	☐	1000.000	1003.039	16006362.86	3.1563	A	0.2
8	☐			7527.36	0.0016	P	17.0

$$y = 0.0031 * x + 1.6106E-004$$

$$R = 1.0000$$

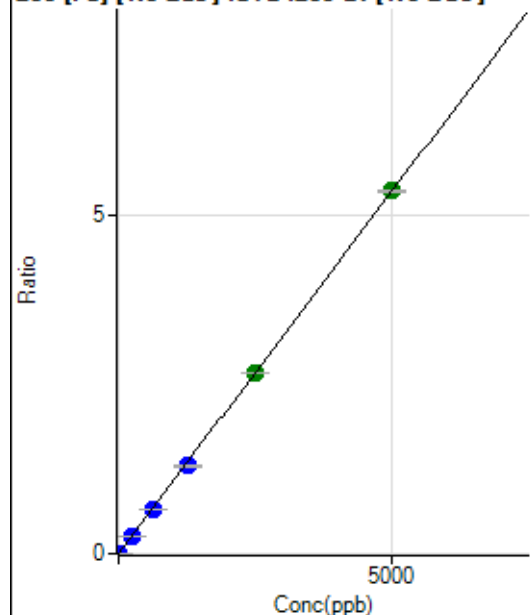
$$DL = 0.01066$$

$$BEC = 0.05118$$

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	763.00	0.0001	P	3.7
2	☐	1.000	0.978	6179.32	0.0012	P	3.1
3	☐	250.000	241.304	1364960.01	0.2582	P	0.5
4	☐	625.000	601.392	3426633.03	0.6433	P	0.2
5	☐	1250.000	1209.651	6745380.53	1.2938	P	0.6
6	☐	2500.000	2499.837	13716364.77	2.6736	A	0.9
7	☐	5000.000	5013.555	27191085.56	5.3618	A	0.4
8	☐			12680.34	0.0027	P	2.6

$$y = 0.0011 * x + 1.4640E-004$$

$$R = 1.0000$$

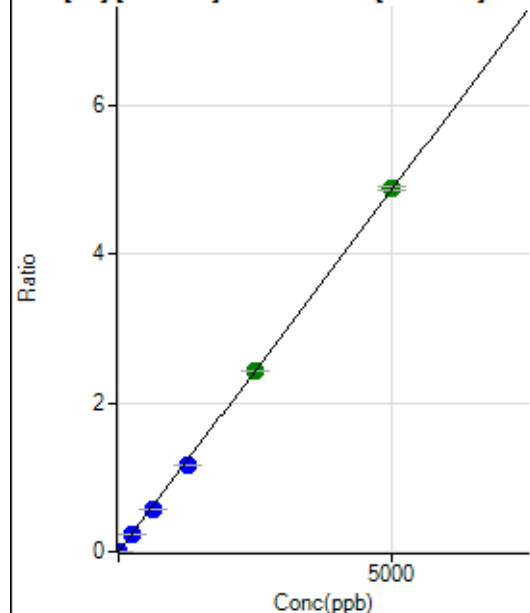
$$DL = 0.01538$$

$$BEC = 0.1369$$

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	657.44	0.0001	P	10.6
2	☐	1.000	0.994	5656.87	0.0011	P	5.1
3	☐	250.000	238.534	1226380.77	0.2320	P	0.6
4	☐	625.000	593.122	3071857.62	0.5767	P	0.4
5	☐	1250.000	1196.692	6065659.05	1.1634	P	0.6
6	☐	2500.000	2500.524	12471578.52	2.4308	A	0.5
7	☐	5000.000	5017.623	24736648.24	4.8777	A	0.9
8	☐			11271.62	0.0024	P	2.3

$$y = 9.7208E-004 * x + 1.2608E-004$$

$$R = 0.9999$$

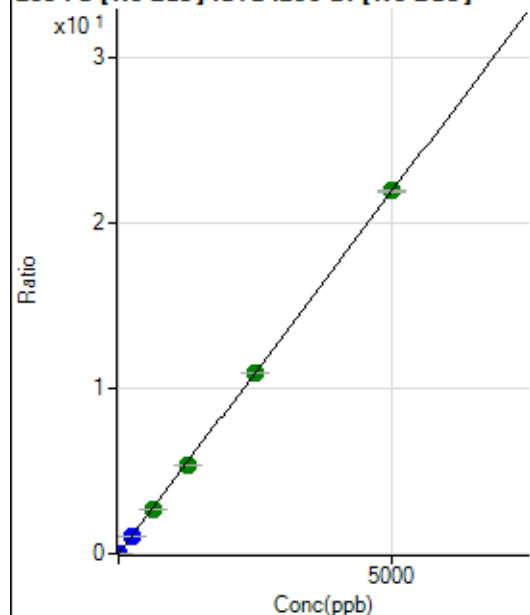
$$DL = 0.04132$$

$$BEC = 0.1297$$

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	3174.28	0.0006	P	5.8
2	☐	1.000	0.978	25287.64	0.0049	P	1.9
3	☐	250.000	240.414	5558366.23	1.0515	P	0.6
4	☐	625.000	605.496	14101625.43	2.6473	A	0.2
5	☐	1250.000	1214.873	27690401.14	5.3110	A	0.4
6	☐	2500.000	2497.068	56003987.71	10.9158	A	0.4
7	☐	5000.000	5013.165	111135164.7	21.9141	A	0.7
8	☐			50790.35	0.0109	P	1.6

$$y = 0.0044 * x + 6.0891E-004$$

$$R = 1.0000$$

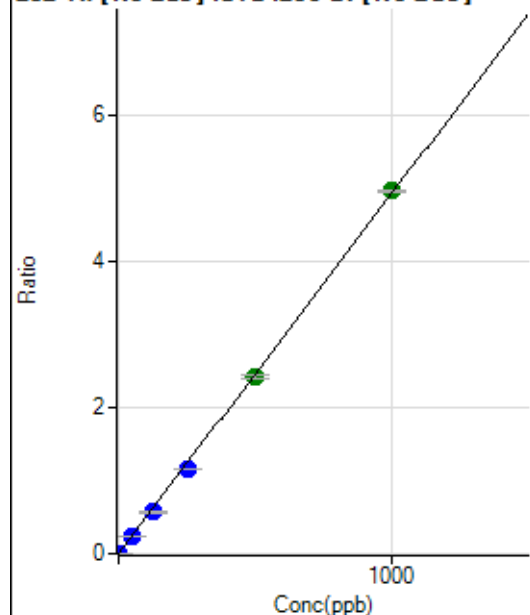
$$DL = 0.0244$$

$$BEC = 0.1393$$

Weight: <None>

Min Conc: 0

232 Th [No Gas] ISTD :209 Bi [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	161.12	0.0000	P	15.4
2	☐	1.000	-0.001	140.74	0.0000	P	3.2
3	☐	50.000	45.900	1196981.51	0.2265	P	1.3
4	☐	125.000	115.038	3022919.39	0.5675	P	0.7
5	☐	250.000	235.199	6049153.72	1.1602	P	0.5
6	☐	500.000	493.493	12488211.62	2.4344	A	2.0
7	☐	1000.000	1008.405	25225425.33	4.9744	A	0.6
8	☐			2694.77	0.0006	P	20.0

$$y = 0.0049 * x + 3.0930E-005$$

$$R = 0.9998$$

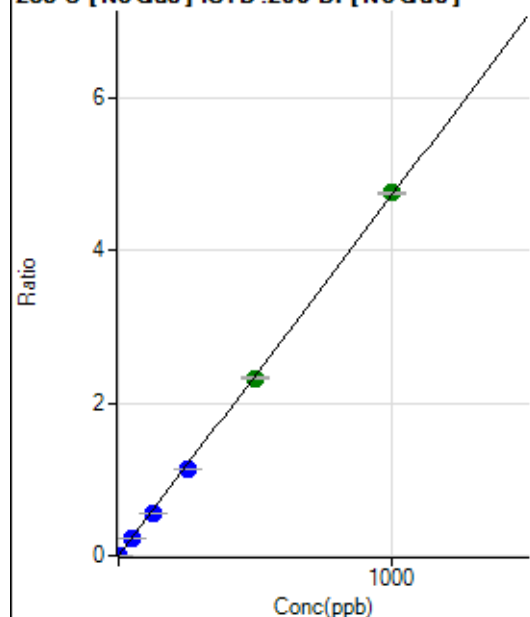
$$DL = 0.002888$$

$$BEC = 0.00627$$

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	19.45	0.0000	P	25.9
2	☐	1.000	0.925	22653.52	0.0044	P	1.9
3	☐	50.000	46.709	1166251.62	0.2206	P	1.4
4	☐	125.000	116.397	2928741.47	0.5498	P	0.5
5	☐	250.000	239.630	5901426.13	1.1319	P	1.2
6	☐	500.000	492.948	11945714.77	2.3285	A	1.5
7	☐	1000.000	1007.359	24129837.34	4.7584	A	0.6
8	☐			2208.59	0.0005	P	9.0

$$y = 0.0047 * x + 3.7383E-006$$

$$R = 0.9999$$

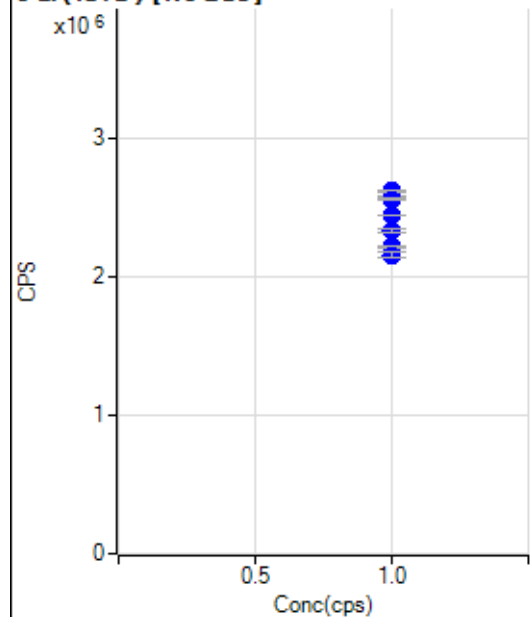
$$DL = 0.0006141$$

$$BEC = 0.0007914$$

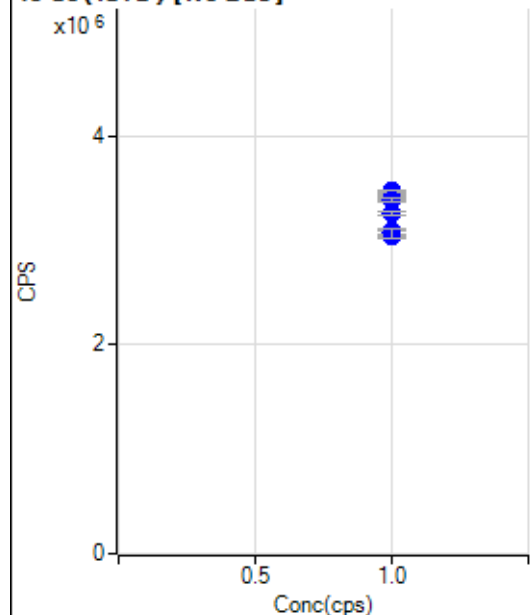
Weight: <None>

Min Conc: 0

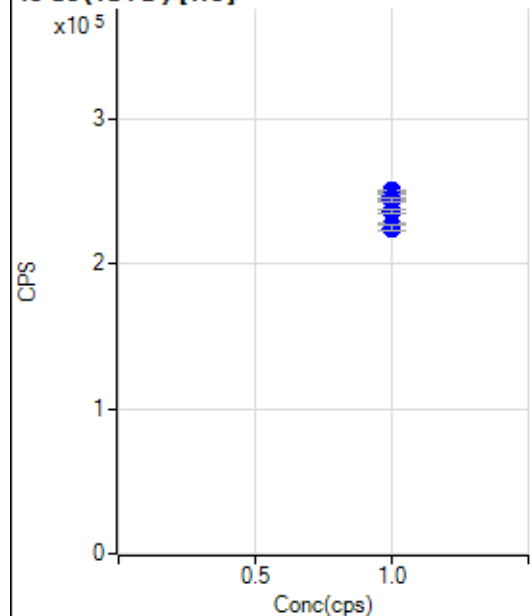
6 Li (ISTD) [No Gas]



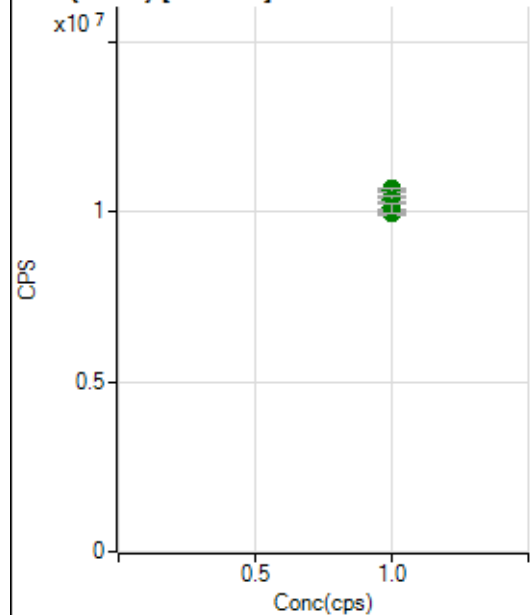
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		2568450.25		P	0.4
2	☐	1.000		2561237.43		P	1.0
3	☐	1.000		2617663.40		P	0.3
4	☐	1.000		2559146.75		P	0.5
5	☐	1.000		2440628.59		P	0.3
6	☐	1.000		2329739.36		P	1.0
7	☐	1.000		2213614.85		P	0.2
8	☐	1.000		2153187.14		P	2.2

45 Sc (ISTD) [No Gas]

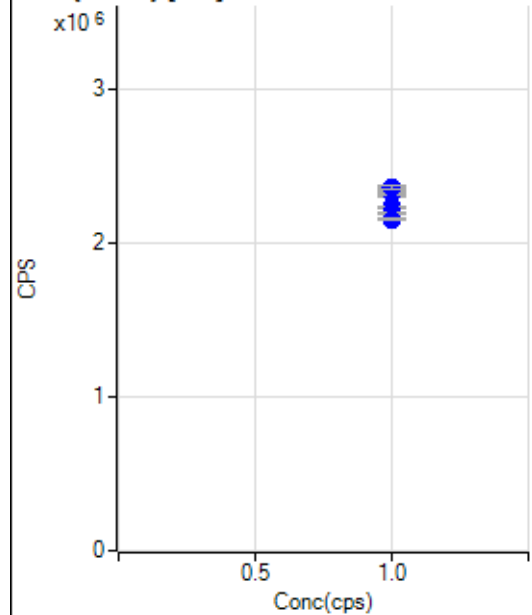
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3428340.05		P	1.0
2	☐	1.000		3402149.74		P	1.1
3	☐	1.000		3477381.79		P	0.9
4	☐	1.000		3389919.53		P	1.0
5	☐	1.000		3265805.44		P	1.0
6	☐	1.000		3104661.59		P	0.2
7	☐	1.000		3050166.90		P	0.2
8	☐	1.000		3073248.57		P	3.3

45 Sc (ISTD) [He]

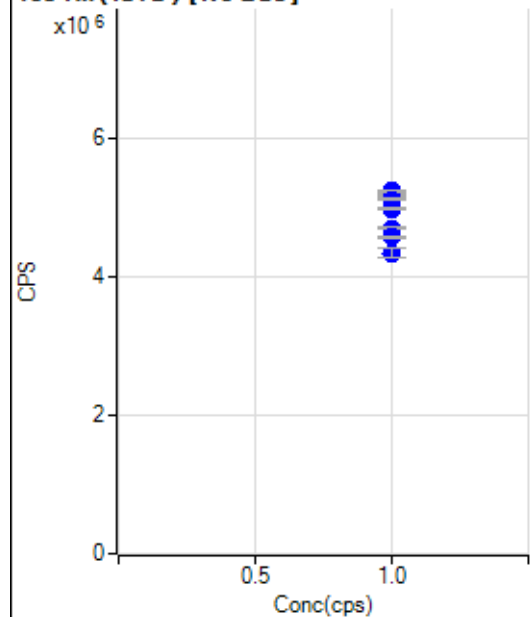
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		249954.67		P	0.7
2	☐	1.000		249580.39		P	0.9
3	☐	1.000		246696.62		P	3.0
4	☐	1.000		245322.00		P	1.6
5	☐	1.000		235803.34		P	0.8
6	☐	1.000		227177.27		P	0.1
7	☐	1.000		224478.64		P	1.6
8	☐	1.000		244047.14		P	1.1

89 Y (ISTD) [No Gas]

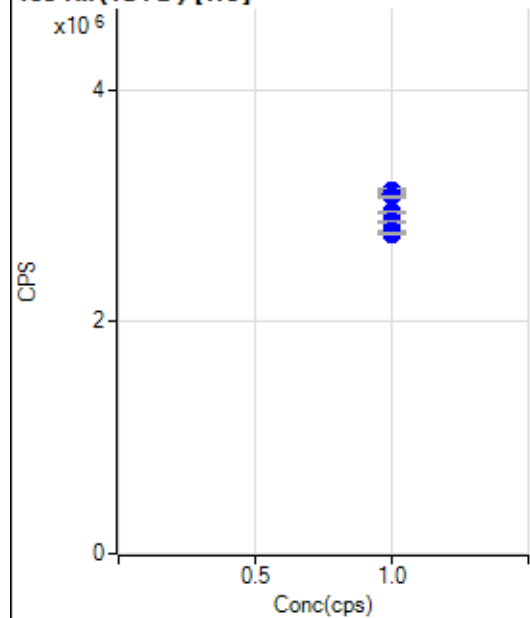
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10582508.38		A	0.8
2	☐	1.000		10416380.05		A	0.4
3	☐	1.000		10663252.06		A	0.7
4	☐	1.000		10611123.87		A	0.9
5	☐	1.000		10367256.58		A	1.2
6	☐	1.000		9989984.99		A	1.5
7	☐	1.000		9937737.14		A	0.9
8	☐	1.000		10092975.61		A	2.8

89 Y (ISTD) [He]

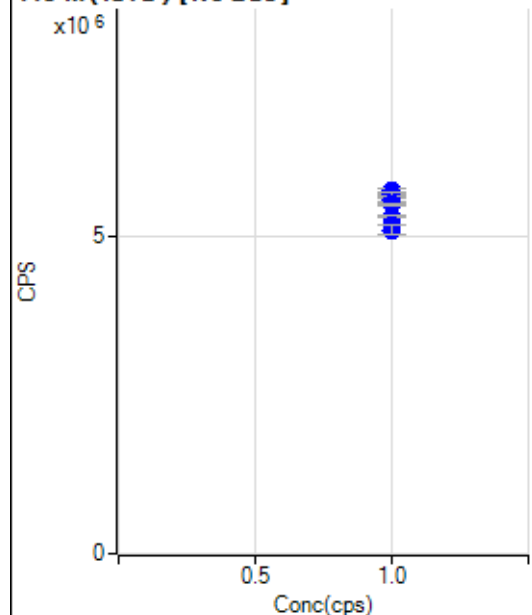
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2324654.58		P	0.3
2	☐	1.000		2328594.20		P	0.2
3	☐	1.000		2326748.66		P	2.7
4	☐	1.000		2317859.20		P	0.3
5	☐	1.000		2228347.78		P	0.5
6	☐	1.000		2191116.20		P	0.6
7	☐	1.000		2152147.48		P	0.9
8	☐	1.000		2354856.89		P	0.9

103 Rh (ISTD) [No Gas]

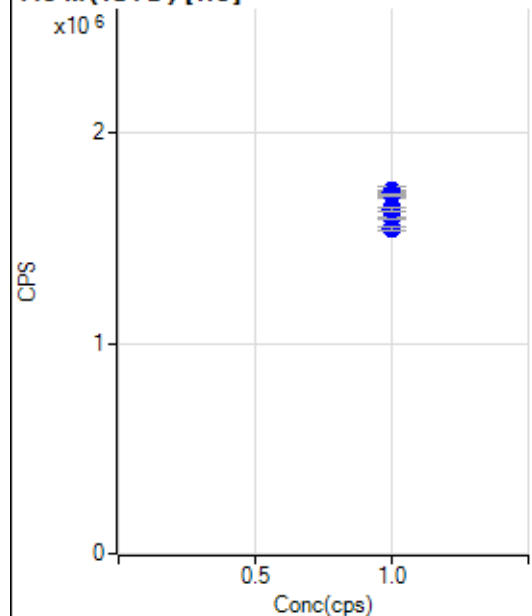
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5186292.36		P	0.4
2	☐	1.000		5126200.83		P	1.3
3	☐	1.000		5234702.39		P	0.5
4	☐	1.000		5116153.64		P	0.5
5	☐	1.000		4974801.45		P	0.7
6	☐	1.000		4697641.25		P	0.7
7	☐	1.000		4567824.93		P	0.4
8	☐	1.000		4335085.70		P	3.0

103 Rh (ISTD) [He]

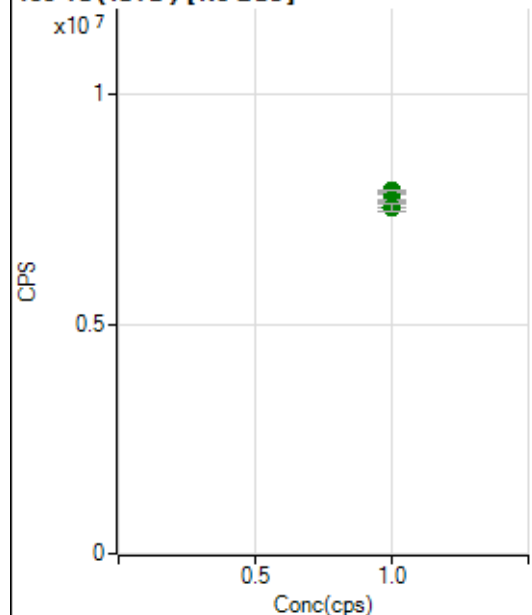
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3128247.38		P	0.3
2	☐	1.000		3107615.47		P	0.1
3	☐	1.000		3103686.76		P	2.7
4	☐	1.000		3081020.58		P	0.6
5	☐	1.000		2945151.21		P	0.3
6	☐	1.000		2862208.25		P	0.3
7	☐	1.000		2780087.91		P	1.0
8	☐	1.000		2754999.51		P	0.4

115 In (ISTD) [No Gas]

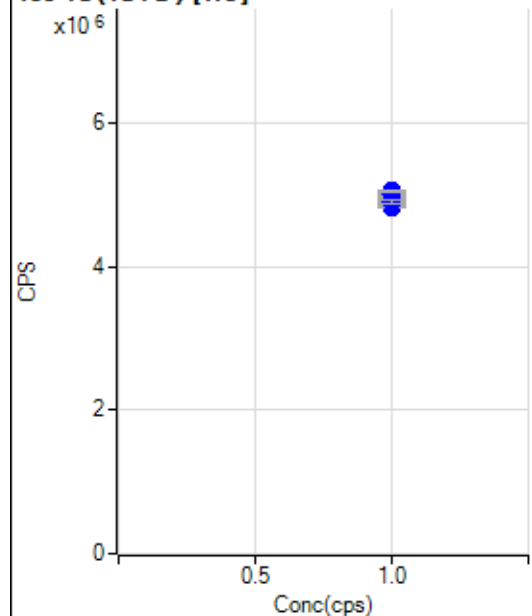
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5630882.17		P	0.5
2	☐	1.000		5552192.95		P	1.0
3	☐	1.000		5700259.80		P	0.9
4	☐	1.000		5647594.44		P	0.6
5	☐	1.000		5491304.62		P	0.6
6	☐	1.000		5299430.00		P	0.9
7	☐	1.000		5161977.66		P	0.0
8	☐	1.000		5089873.01		P	2.8

115 In (ISTD) [He]

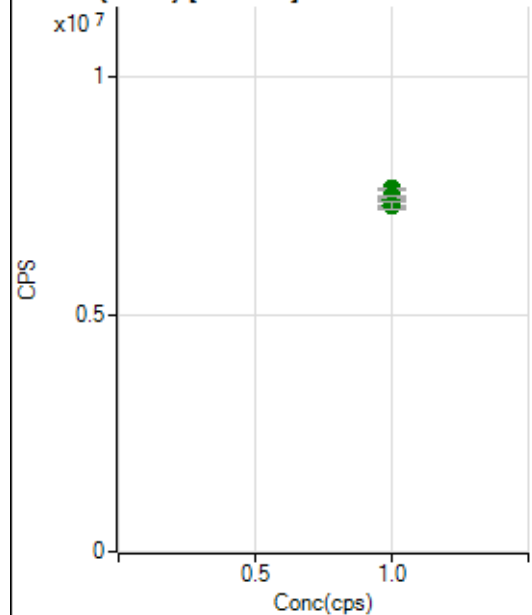
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1726065.41		P	0.3
2	☐	1.000		1717421.10		P	0.3
3	☐	1.000		1719994.95		P	2.9
4	☐	1.000		1709921.33		P	0.5
5	☐	1.000		1646234.92		P	0.0
6	☐	1.000		1597953.02		P	0.7
7	☐	1.000		1548397.57		P	1.0
8	☐	1.000		1639792.62		P	0.8

159 Tb (ISTD) [No Gas]

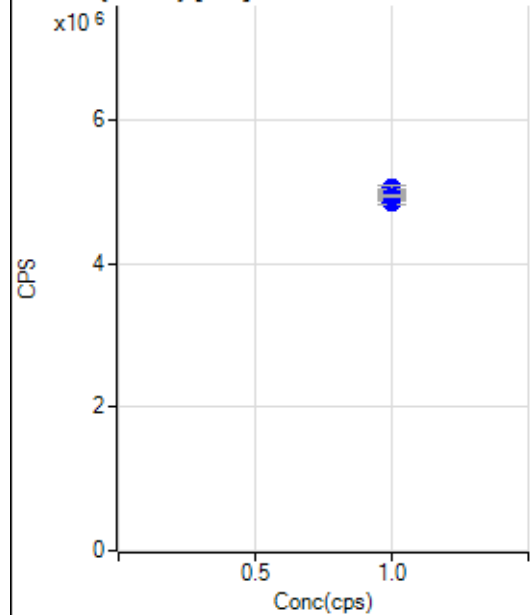
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7711676.83		A	0.3
2	☐	1.000		7608392.11		A	2.0
3	☐	1.000		7857298.01		A	0.7
4	☐	1.000		7907186.69		A	0.3
5	☐	1.000		7703628.29		A	0.6
6	☐	1.000		7675958.84		A	0.9
7	☐	1.000		7690937.31		A	0.8
8	☐	1.000		7550777.25		A	2.0

159 Tb (ISTD) [He]

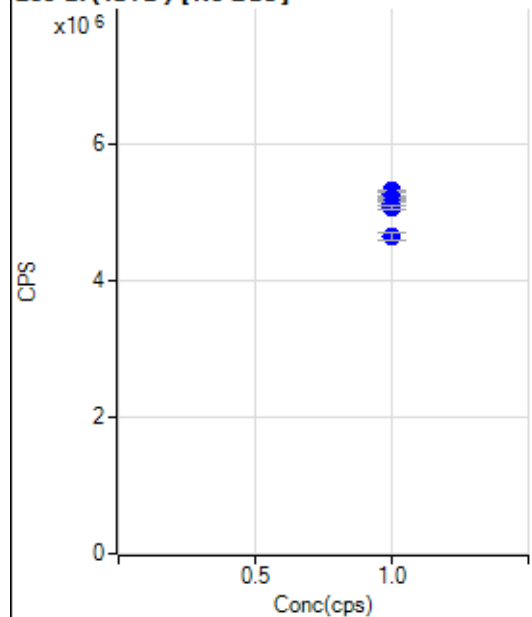
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4993402.49		P	0.2
2	☐	1.000		4957776.49		P	0.7
3	☐	1.000		5011734.16		P	2.1
4	☐	1.000		5054458.47		P	0.8
5	☐	1.000		4883738.09		P	1.1
6	☐	1.000		4902590.10		P	0.4
7	☐	1.000		4834293.64		P	1.0
8	☐	1.000		4907339.89		P	0.7

165 Ho (ISTD) [No Gas]

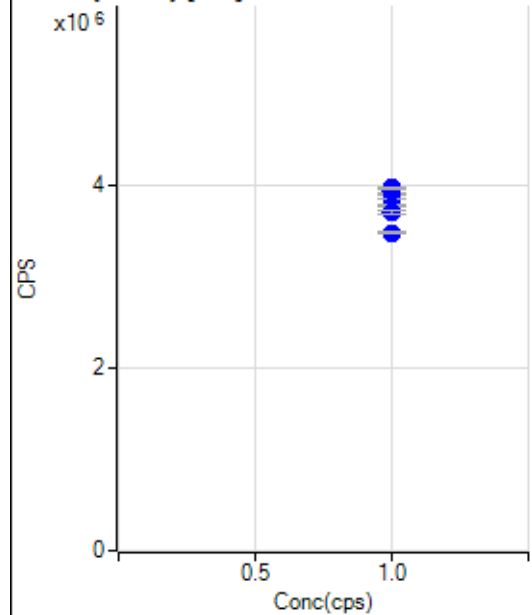
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7447111.83		A	0.6
2	☐	1.000		7286738.23		A	0.8
3	☐	1.000		7504808.15		A	0.2
4	☐	1.000		7653712.87		A	0.3
5	☐	1.000		7514484.40		A	0.3
6	☐	1.000		7435681.98		A	1.5
7	☐	1.000		7485379.89		A	0.3
8	☐	1.000		7309210.03		A	2.6

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5011230.41		P	0.5
2	☐	1.000		4966893.57		P	0.5
3	☐	1.000		5026089.06		P	2.5
4	☐	1.000		5052652.25		P	1.0
5	☐	1.000		4938769.51		P	0.3
6	☐	1.000		4908509.89		P	0.3
7	☐	1.000		4851404.96		P	1.3
8	☐	1.000		4938029.30		P	0.6

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5211243.67		P	1.0
2	☐	1.000		5179770.48		P	0.9
3	☐	1.000		5286394.02		P	1.3
4	☐	1.000		5326691.41		P	0.2
5	☐	1.000		5213774.68		P	0.5
6	☐	1.000		5130734.23		P	1.2
7	☐	1.000		5071163.29		P	1.0
8	☐	1.000		4650492.36		P	2.5

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3974667.61		P	0.2
2	☐	1.000		3925576.47		P	0.5
3	☐	1.000		3952011.02		P	2.3
4	☐	1.000		3981203.10		P	0.8
5	☐	1.000		3858926.54		P	0.3
6	☐	1.000		3786403.52		P	0.4
7	☐	1.000		3711683.66		P	1.4
8	☐	1.000		3488980.06		P	0.9

US EPA Tune Check Sample Report

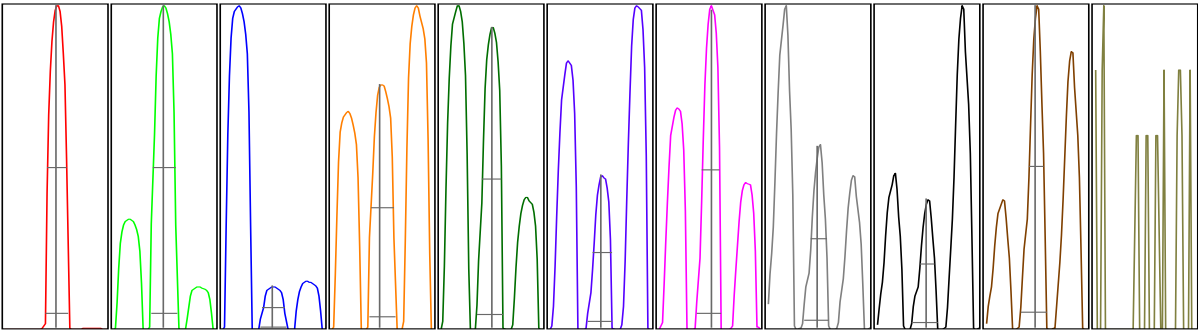
Batch Folder C:\Agilent\ICPMH\1\DATA\P7090221 MS.b
Report Comment
Instrument Name G8403A JP14410463

[No Gas]

Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)	RSD% (Flag)
9	7418	0.41	5.00	
24	64491	0.16	5.00	
25	8406	0.37	5.00	
26	9697	0.57	5.00	
59	14565	0.38	5.00	
113	8803	0.68	5.00	
115	26889	2.23	5.00	
206	12272	0.39	5.00	
207	10313	0.69	5.00	
208	25491	0.71	5.00	
220	0	55.90		

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
9	7459	7407	7396	7439	7386
24	64379	64586	64499	64594	64397
25	8433	8439	8370	8407	8381
26	9698	9789	9662	9690	9646
59	14532	14629	14619	14543	14503
113	8791	8870	8763	8859	8733
115	27599	27366	26836	26492	26151
206	12326	12268	12208	12312	12247
207	10295	10306	10394	10362	10209
208	25729	25251	25589	25481	25404
220	0	0	0	0	0

Integration Time [sec] = 0.1



Mass	Peak Height	Axis (Actual)	Axis (Required)	Axis (Flag)	Width-X% (Actual)	Width-X% (Required)	Width- X% (Flag)
9	13376	9.05	8.9 - 9.1		0.692	0.900	
24	104236	24.00	23.9 - 24.1		0.785	0.900	
25	13725	25.00	24.9 - 25.1		0.785	0.900	
26	15379	25.95	25.9 - 26.1		0.788	0.900	
59	25763	59.05	58.9 - 59.1		0.765	0.900	
113	17000	113.05	112.9 - 113.1		0.725	0.900	
115	51586	115.10	114.9 - 115.1		0.718	0.900	
206	26821	206.00	205.9 - 206.1		0.735	0.900	
207	22714	207.00	206.9 - 207.1		0.740	0.900	
208	56624	208.00	207.9 - 208.1		0.753	0.900	
220	0	220.40	-		0.175		

X% = 5 Integration Time [sec] = 0.1 Acquisition Time [sec] = 256.8 Y Axis = Linear

Tune Parameters

Plasma Paramters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
RF Power	1600	W	Carrier Gas	0.72	L/min	S/C Temp		2 °C
RF Matching	1.80	V	Option Gas	0.0	%	Gas Switch		Dilution Gas
Smpl Depth	9.0	mm	Nebulizer Pump	0.10	rpm	Makeup/Dilution Gas		0.42 L/min

Lenses Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Extract 1	0.0	V	Omega Lens	8.8	V	Deflect	13.2	V
Extract 2	-110.0	V	Cell Entrance	-30	V	Plate Bias	-35	V
Omega Bias	-65	V	Cell Exit	-50	V			

Cell Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Use Gas	No		OctP Bias	-8.0	V	Energy Discrimination		5.0 V
He Flow	0.0	mL/min	OctP RF	130	V			

[He]

Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)
59	4794	0.50	
89	28390	0.86	
205	16032	1.02	

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
59	4772	4789	4831	4775	4801
89	28558	28476	28652	28117	28148
205	16291	15853	16039	15943	16033

Integration Time [sec] = 0.1

Tune Parameters

Plasma Paramters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
RF Power	1600	W	Carrier Gas	0.72	L/min	S/C Temp		2 °C
RF Matching	1.80	V	Option Gas	0.0	%	Gas Switch		Dilution Gas
Smpl Depth	9.0	mm	Nebulizer Pump	0.10	rpm	Makeup/Dilution Gas		0.42 L/min

Lenses Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Extract 1	0.0	V	Omega Lens	9.0	V	Deflect	1.2	V
Extract 2	-125.0	V	Cell Entrance	-40	V	Plate Bias	-60	V
Omega Bias	-75	V	Cell Exit	-60	V			

Cell Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Use Gas	Yes		OctP Bias	-18.0	V	Energy Discrimination		5.0 V
He Flow	3.9	mL/min	OctP RF	200	V			