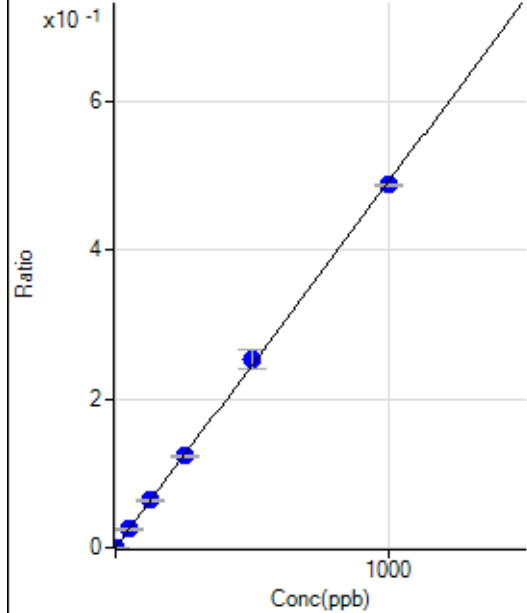


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8012921S.b\
Analysis File: P8012921S.batch.bin
DA Date-Time: 2021-01-31 11:53:05
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2021-01-29 16:03:40
2	004CALS.d	S01	2021-01-29 16:06:54
3	005CALS.d	S02	2021-01-29 16:10:06
4	006CALS.d	S03	2021-01-29 16:13:20
5	007CALS.d	S04	2021-01-29 16:16:32
6	008CALS.d	S05	2021-01-29 16:21:10
7	009CALS.d	S06	2021-01-29 16:24:14
8	010CALS.d	S07	2021-01-29 16:27:14
9	011CALS.d	S08	2021-01-29 16:30:13

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	97.98	0.0001	P	17.4
2	☐	0.100	0.116	152.64	0.0002	P	11.2
3	☐	1.000	0.982	598.56	0.0006	P	5.4
4	☐	50.000	50.137	24945.42	0.0248	P	1.8
5	☐	125.000	128.886	63476.21	0.0635	P	3.0
6	☐	250.000	249.926	125462.77	0.1231	P	3.2
7	☐	500.000	515.787	246347.40	0.2540	P	10.0
8	☐	1000.000	991.633	486687.43	0.4882	P	0.6
9	☐			318.61	0.0003	P	4.3

$$y = 4.9225\text{E-}004 * x + 1.0113\text{E-}004$$

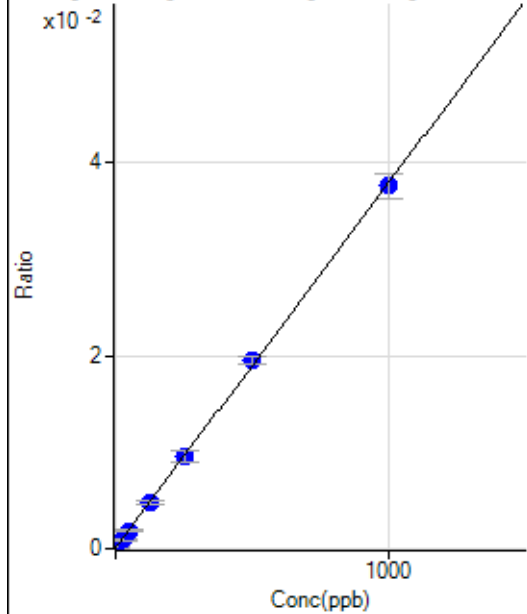
$$R = 0.9998$$

$$DL = 0.1072$$

$$BEC = 0.2054$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	66.66	0.0001	P	21.1
2	☐	2.500	2.197	146.64	0.0002	P	2.6
3	☐	25.000	22.343	934.51	0.0009	P	14.4
4	☐	50.000	47.709	1883.75	0.0019	P	7.6
5	☐	125.000	125.207	4789.85	0.0048	P	10.7
6	☐	250.000	251.832	9754.67	0.0096	P	12.2
7	☐	500.000	514.762	18999.85	0.0195	P	4.5
8	☐	1000.000	992.317	37402.53	0.0376	P	6.8
9	☐			7502.45	0.0069	P	11.1

$$y = 3.7790\text{E-}005 * x + 6.8846\text{E-}005$$

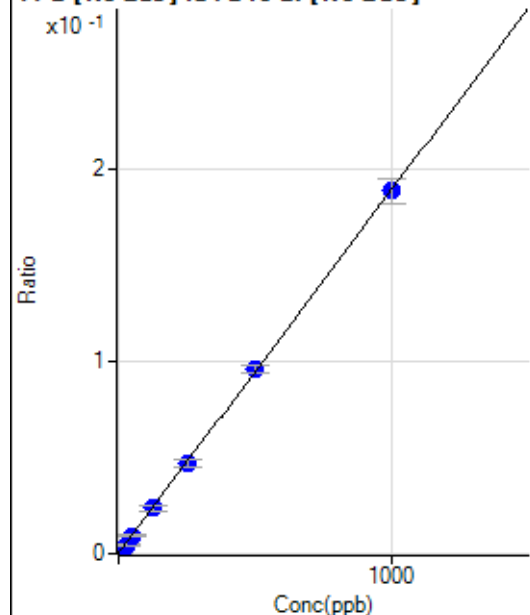
$$R = 0.9998$$

$$DL = 1.154$$

$$BEC = 1.822$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	291.94	0.0003	P	9.8
2	☐	2.500	2.256	700.55	0.0007	P	4.9
3	☐	25.000	22.008	4560.49	0.0045	P	10.7
4	☐	50.000	47.731	9371.82	0.0093	P	10.1
5	☐	125.000	122.922	23468.07	0.0235	P	9.6
6	☐	250.000	248.947	48173.63	0.0473	P	8.9
7	☐	500.000	506.852	93494.01	0.0960	P	4.7
8	☐	1000.000	997.286	187800.40	0.1887	P	7.0
9	☐			37367.27	0.0346	P	9.5

$$y = 1.8886E-004 * x + 2.9978E-004$$

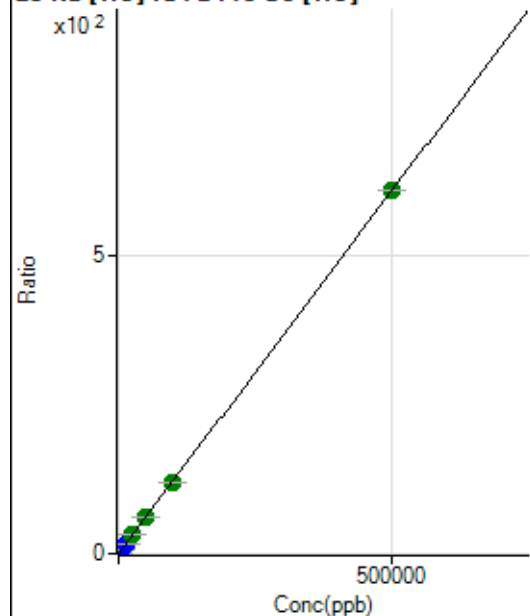
$$R = 1.0000$$

$$DL = 0.4676$$

$$BEC = 1.587$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	17958.70	0.3150	P	3.6
2	☐	50.000	57.828	20698.47	0.3851	P	4.4
3	☐	500.000	549.360	53150.40	0.9811	P	7.9
4	☐	5000.000	5046.244	361864.43	6.4332	P	0.4
5	☐	12500.000	12973.887	896032.54	16.0450	P	0.9
6	☐	25000.000	25285.976	1752864.41	30.9725	A	2.5
7	☐	50000.000	49753.428	3400543.76	60.6376	A	3.2
8	☐	100000.00	97670.682	6866432.88	118.7340	A	0.6
9	☐	500000.00	500463.86	34548676.4	607.0930	A	0.2

$$y = 0.0012 * x + 0.3150$$

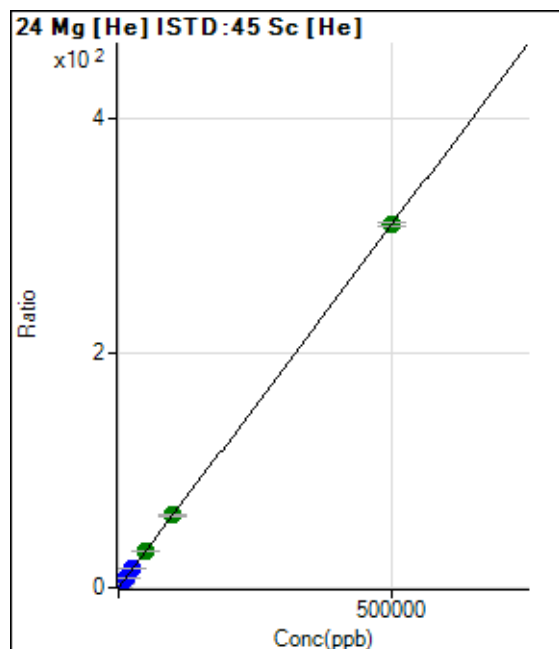
$$R = 1.0000$$

$$DL = 27.69$$

$$BEC = 259.8$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1050.06	0.0185	P	15.1
2	☐	50.000	59.008	2947.61	0.0550	P	14.2
3	☐	500.000	527.638	18684.60	0.3448	P	7.7
4	☐	5000.000	5126.908	179417.03	3.1898	P	1.0
5	☐	12500.000	13159.539	455622.45	8.1587	P	0.9
6	☐	25000.000	25845.683	905961.16	16.0060	P	1.0
7	☐	50000.000	50614.611	1757182.89	31.3275	A	1.1
8	☐	100000.00	99742.555	3569178.55	61.7170	A	1.0
9	☐	500000.00	499929.95	17599741.5	309.2641	A	1.2

$$y = 6.1858\text{E-}004 * x + 0.0185$$

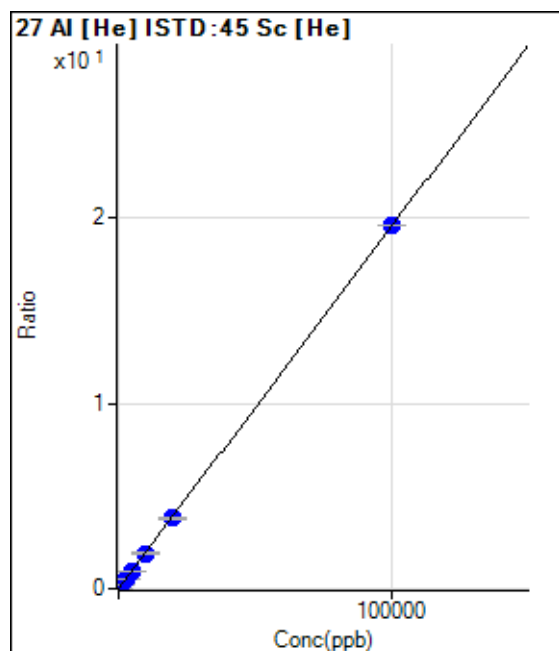
$$R = 1.0000$$

$$DL = 13.48$$

$$BEC = 29.83$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	304.55	0.0053	P	6.0
2	☒	2.000					
3	☐	20.000	25.517	556.19	0.0103	P	17.5
4	☐	1000.000	988.438	11165.39	0.1985	P	1.1
5	☐	2500.000	2494.234	27520.31	0.4928	P	0.1
6	☐	5000.000	4877.967	54260.50	0.9587	P	1.1
7	☐	10000.000	9732.908	106982.19	1.9075	P	1.6
8	☐	20000.000	19364.731	219161.56	3.7898	P	0.5
9	☐	100000.00	100160.12	1114262.92	19.5799	P	0.2

$$y = 1.9543\text{E-}004 * x + 0.0053$$

$$R = 1.0000$$

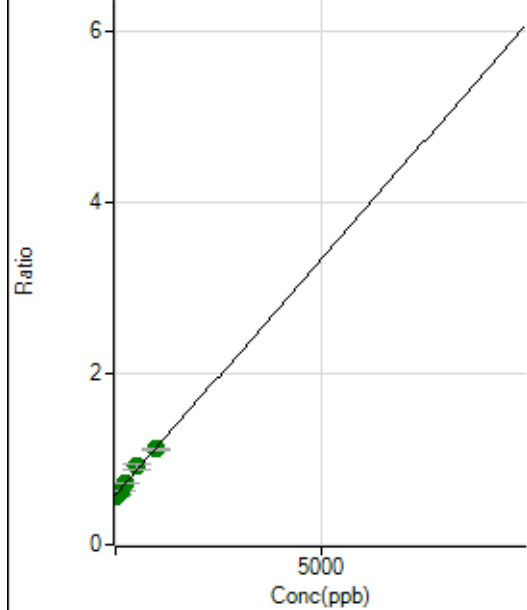
$$DL = 4.934$$

$$BEC = 27.31$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1101557.98	0.5854	A	5.6
2	☐	1.000	-35.392	1103949.31	0.5660	A	3.6
3	☐	10.000	-47.213	1137973.04	0.5595	A	1.4
4	☐	50.000	-15.585	1152531.91	0.5769	A	0.6
5	☐	125.000	72.933	1263988.18	0.6255	A	0.5
6	☐	250.000	226.610	1441460.43	0.7099	A	0.2
7	☐	500.000	600.789	1783012.58	0.9155	A	6.3
8	☐	1000.000	965.849	2203579.95	1.1160	A	3.5
9	☐			1295966.06	0.6205	A	1.8

$$y = 5.4929\text{E-}004 * x + 0.5854$$

$$R = 0.9906$$

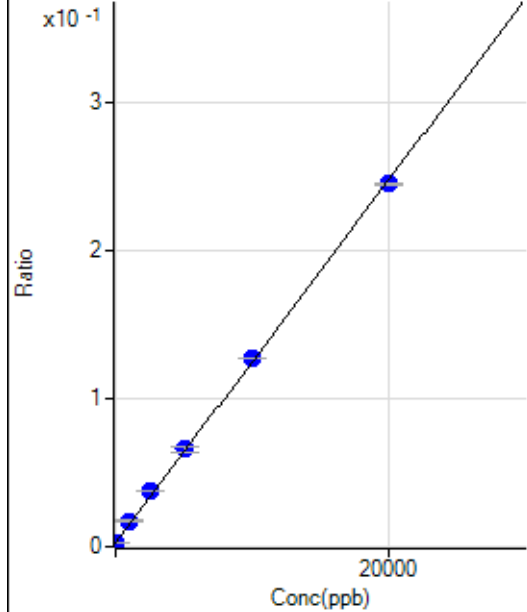
$$DL = 180.2$$

$$BEC = 1066$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	25.055	152.78	0.0027	P	32.9
2	☐	0.000	-16.644	116.67	0.0022	P	17.2
3	☐	0.000	-8.411	125.00	0.0023	P	28.4
4	☐	1000.000	1226.340	977.84	0.0174	P	9.4
5	☐	2500.000	2868.818	2091.87	0.0375	P	1.5
6	☐	5000.000	5173.911	3714.47	0.0656	P	6.1
7	☐	10000.000	10191.322	7124.17	0.1270	P	0.6
8	☐	20000.000	19803.442	14140.55	0.2445	P	0.7
9	☐			158.34	0.0028	P	13.1

$$y = 1.2228\text{E-}005 * x + 0.0024$$

$$R = 0.9997$$

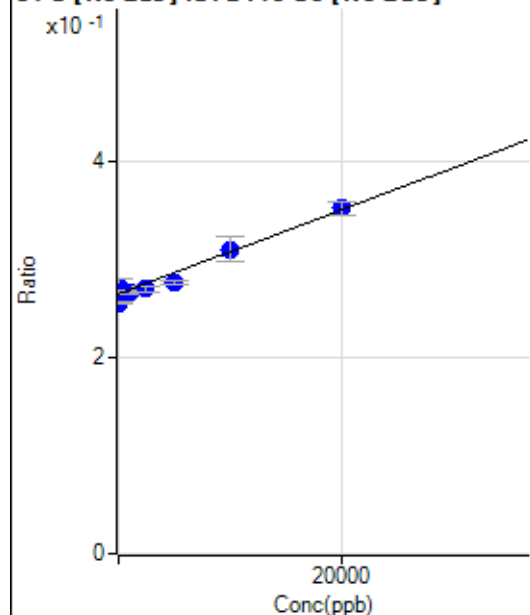
$$DL = 156$$

$$BEC = 194.7$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	1955.954	515333.85	0.2739	P	5.7
2	☐	0.000	253.274	520044.47	0.2666	P	2.2
3	☐	0.000	-2209.227	520854.80	0.2561	P	0.5
4	☐	1000.000	406.121	533859.17	0.2673	P	1.9
5	☐	2500.000	1112.047	546087.91	0.2703	P	2.2
6	☐	5000.000	2649.632	562115.93	0.2769	P	1.2
7	☐	10000.000	10680.159	605531.27	0.3112	P	8.3
8	☐	20000.000	20450.700	697027.58	0.3530	P	3.6
9	☐			499857.45	0.2393	P	0.5

$$y = 4.2774\text{E-}006 * x + 0.2655$$

$$R = 0.9804$$

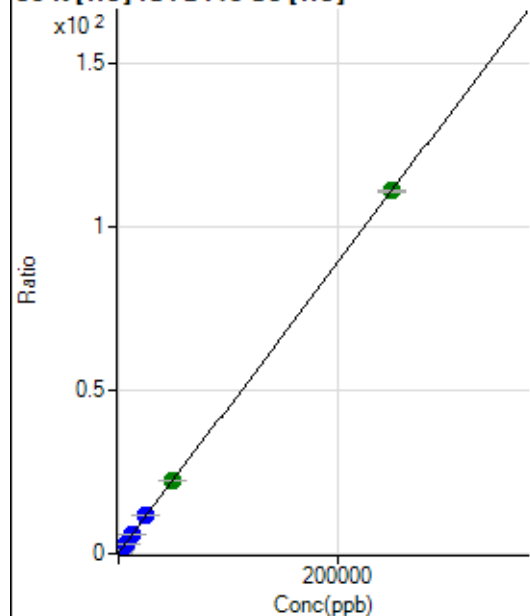
$$DL = 5266$$

$$BEC = 6.208\text{E}+04$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	15250.01	0.2675	P	3.7
2	☒	50.000					
3	☐	500.000	549.221	27685.45	0.5111	P	8.2
4	☐	2500.000	2561.812	78957.96	1.4038	P	1.1
5	☐	6250.000	6612.445	178729.51	3.2005	P	1.1
6	☐	12500.000	12713.550	334313.88	5.9066	P	1.4
7	☐	25000.000	25546.778	650601.05	11.5988	P	1.0
8	☐	50000.000	49644.851	1288891.43	22.2876	A	0.4
9	☐	250000.00	249995.89	6325915.55	111.1539	A	0.9

$$y = 4.4355\text{E-}004 * x + 0.2675$$

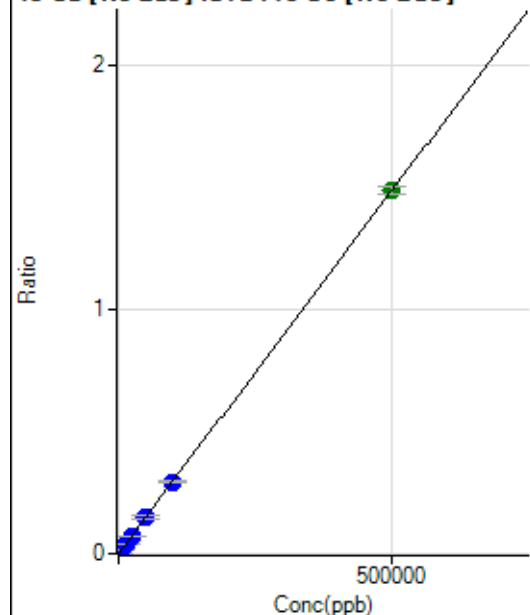
$$R = 1.0000$$

$$DL = 66.26$$

$$BEC = 603.1$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	260.80	0.0001	P	2.5
2	☐	50.000	45.116	530.78	0.0003	P	3.3
3	☐	500.000	473.566	3141.63	0.0015	P	3.0
4	☐	5000.000	4866.602	29146.60	0.0146	P	2.2
5	☐	12500.000	12269.206	73914.75	0.0366	P	0.4
6	☐	25000.000	24306.594	146863.45	0.0723	P	0.7
7	☐	50000.000	50405.664	291492.60	0.1498	P	9.3
8	☐	100000.00	98465.090	577987.12	0.2926	P	2.8
9	☐	500000.00	500308.21	3103716.00	1.4861	A	2.1

$$y = 2.9700\text{E-}006 * x + 1.3815\text{E-}004$$

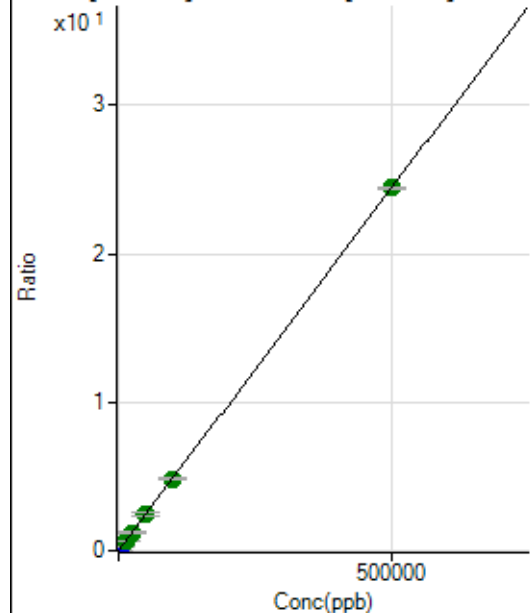
$$R = 1.0000$$

$$DL = 3.42$$

$$BEC = 46.51$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	15252.43	0.0081	P	6.0
2	☐	50.000	42.197	19834.52	0.0102	P	2.0
3	☐	500.000	476.801	63853.02	0.0314	P	0.7
4	☐	5000.000	4944.933	498552.53	0.2496	P	2.4
5	☐	12500.000	12503.931	1250346.55	0.6188	A	0.8
6	☐	25000.000	24977.915	2493362.21	1.2280	A	1.2
7	☐	50000.000	50936.303	4853725.79	2.4958	A	10.9
8	☐	100000.00	98759.415	9544574.23	4.8314	A	2.6
9	☐	500000.00	500156.06	51034609.5	24.4349	A	0.5

$$y = 4.8838\text{E-}005 * x + 0.0081$$

$$R = 1.0000$$

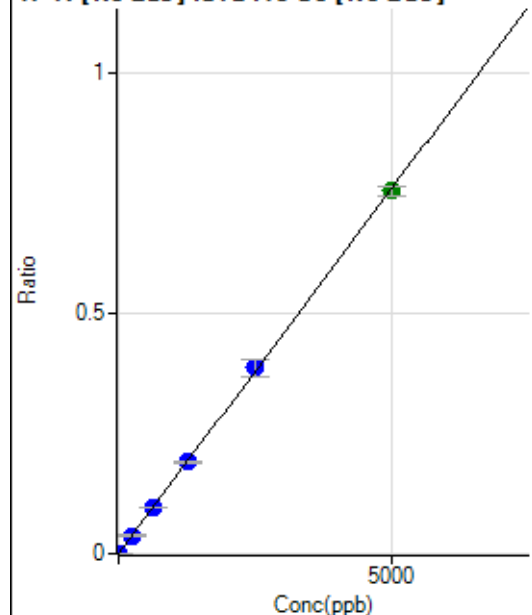
$$DL = 29.68$$

$$BEC = 166$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	400.04	0.0002	P	24.5
2	☐	0.500	0.073	438.91	0.0002	P	17.2
3	☐	5.000	4.849	1930.74	0.0009	P	8.4
4	☐	250.000	245.952	75019.25	0.0376	P	2.9
5	☐	625.000	628.684	193360.06	0.0957	P	1.1
6	☐	1250.000	1251.106	386176.92	0.1902	P	0.5
7	☐	2500.000	2553.469	754754.04	0.3880	P	9.2
8	☐	5000.000	4972.731	1492151.88	0.7553	A	2.5
9	☐			613.92	0.0003	P	17.1

$$y = 1.5185E-004 * x + 2.1329E-004$$

$$R = 0.9999$$

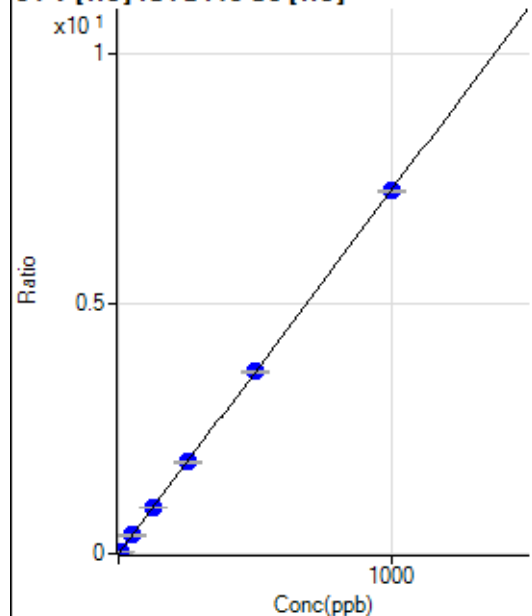
$$DL = 1.032$$

$$BEC = 1.405$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	6.67	0.0001	P	86.7
2	☐	0.500	0.508	204.45	0.0038	P	17.5
3	☐	5.000	5.264	2076.83	0.0384	P	10.4
4	☐	50.000	50.428	20631.62	0.3668	P	1.5
5	☐	125.000	128.748	52286.14	0.9363	P	0.8
6	☐	250.000	253.035	104136.39	1.8400	P	2.0
7	☐	500.000	501.352	204473.14	3.6456	P	1.5
8	☐	1000.000	998.074	419684.79	7.2573	P	0.8
9	☐			56.67	0.0010	P	9.7

$$y = 0.0073 * x + 1.1563E-004$$

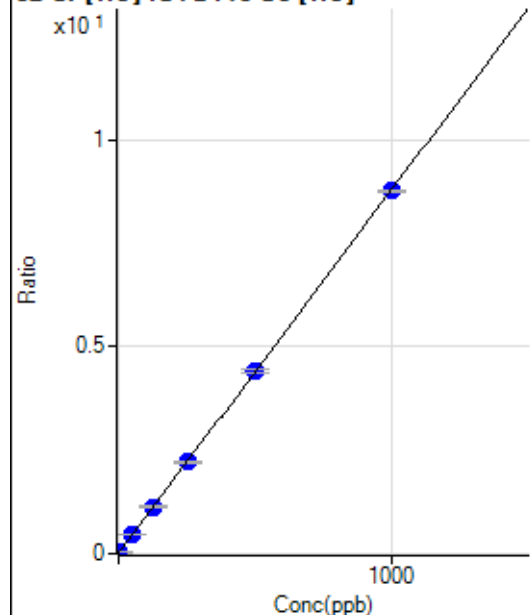
$$R = 1.0000$$

$$DL = 0.04136$$

$$BEC = 0.0159$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	518.91	0.0091	P	8.2
2	☒	0.200					
3	☐	2.000	2.214	1545.65	0.0285	P	8.0
4	☐	50.000	49.696	25059.82	0.4455	P	1.2
5	☐	125.000	128.559	63562.52	1.1382	P	0.4
6	☐	250.000	252.234	125894.62	2.2244	P	1.6
7	☐	500.000	503.612	248560.36	4.4321	P	2.0
8	☐	1000.000	997.205	506991.99	8.7671	P	0.5
9	☐			3273.74	0.0575	P	3.3

$$y = 0.0088 * x + 0.0091$$

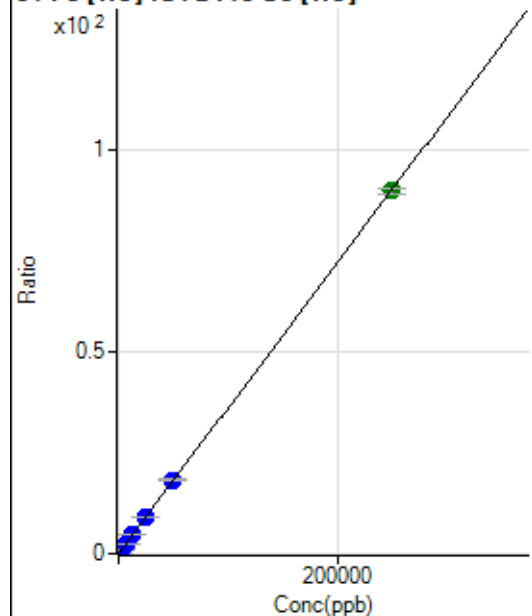
$$R = 1.0000$$

$$DL = 0.2539$$

$$BEC = 1.035$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	231.49	0.0041	P	7.7
2	☐	5.000	5.905	331.49	0.0062	P	18.8
3	☐	50.000	64.927	1481.59	0.0274	P	12.4
4	☐	2500.000	2532.037	51435.03	0.9145	P	1.9
5	☐	6250.000	6605.542	132869.65	2.3793	P	1.1
6	☐	12500.000	12944.914	263693.53	4.6588	P	1.2
7	☐	25000.000	25547.224	515454.07	9.1903	P	1.9
8	☐	50000.000	50836.797	1057332.54	18.2839	P	0.6
9	☐	250000.00	249746.46	5111021.58	89.8078	A	1.6

$$y = 3.5958E-004 * x + 0.0041$$

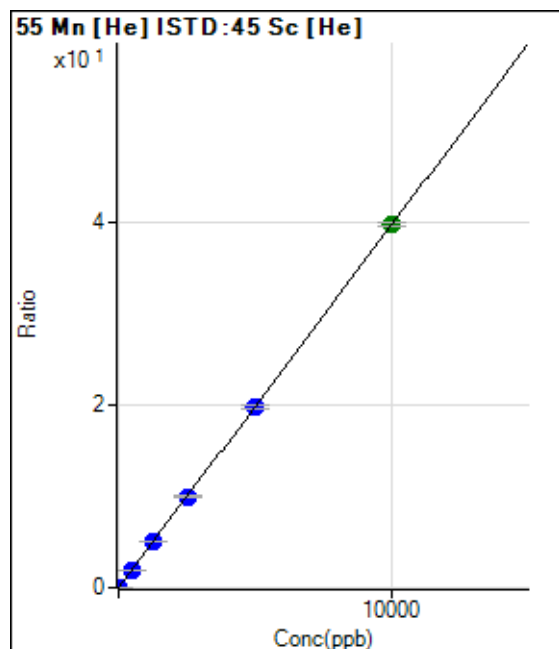
$$R = 1.0000$$

$$DL = 2.611$$

$$BEC = 11.3$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	74.45	0.0013	P	4.2
2	☒	0.100					
3	☐	1.000	1.159	322.23	0.0059	P	12.0
4	☐	500.000	495.438	110649.21	1.9673	P	1.3
5	☐	1250.000	1281.641	284089.24	5.0870	P	0.4
6	☐	2500.000	2514.455	564824.94	9.9790	P	1.2
7	☐	5000.000	4979.224	1108267.43	19.7595	P	1.7
8	☐	10000.000	10003.047	2295431.53	39.6947	A	1.1
9	☐			1382.30	0.0243	P	3.8

$$y = 0.0040 * x + 0.0013$$

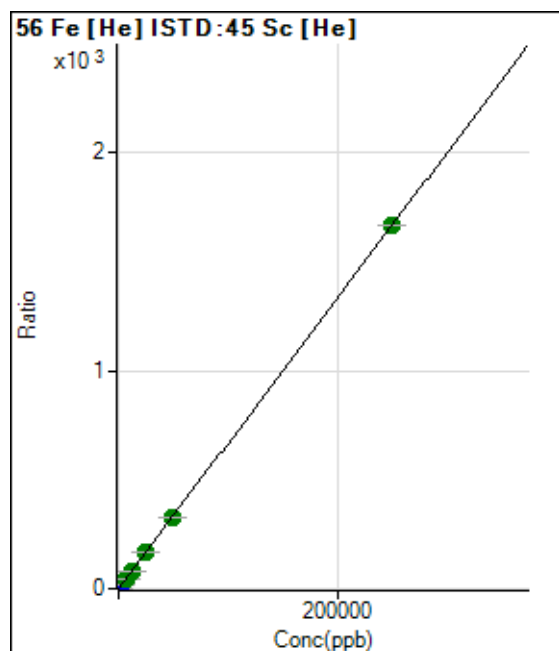
$$R = 1.0000$$

$$DL = 0.04149$$

$$BEC = 0.3288$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1920.54	0.0337	P	7.3
2	☐	5.000	5.557	3798.72	0.0707	P	7.2
3	☐	50.000	57.921	22771.14	0.4195	P	9.3
4	☐	2500.000	2505.731	940488.04	16.7218	P	1.7
5	☐	6250.000	6439.246	2396793.08	42.9190	A	1.0
6	☐	12500.000	12486.543	4709306.12	83.1939	A	0.5
7	☐	25000.000	25105.527	9379297.08	167.2362	A	1.8
8	☐	50000.000	49254.207	18972108.3	328.0661	A	0.3
9	☐	250000.00	250134.48	94806469.7	1,665.926	A	0.1

$$y = 0.0067 * x + 0.0337$$

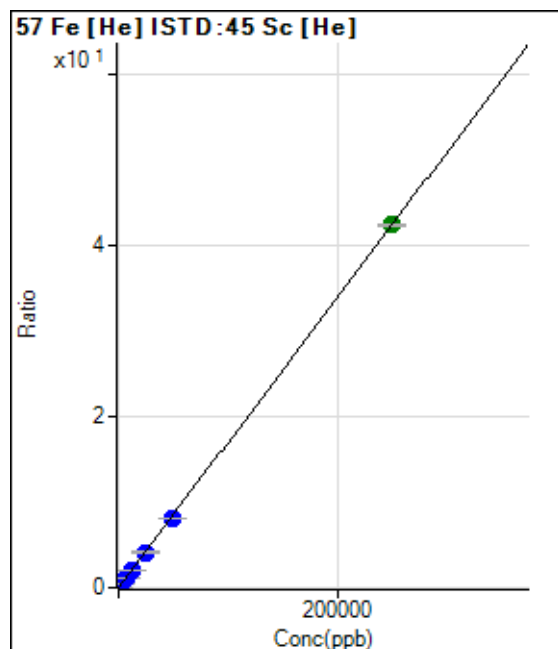
$$R = 1.0000$$

$$DL = 1.116$$

$$BEC = 5.062$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	88.89	0.0016	P	19.4
2	☐	5.000	5.226	131.49	0.0024	P	14.5
3	☐	50.000	51.643	555.58	0.0103	P	21.3
4	☐	2500.000	2446.714	23402.77	0.4161	P	0.5
5	☐	6250.000	6298.621	59676.52	1.0686	P	0.2
6	☐	12500.000	12259.444	117640.04	2.0784	P	1.1
7	☐	25000.000	24411.934	232023.09	4.1371	P	2.0
8	☐	50000.000	48155.743	471853.02	8.1595	P	0.7
9	☐	250000.00	250439.00	2414536.34	42.4280	A	0.5

$$y = 1.6941\text{E-}004 * x + 0.0016$$

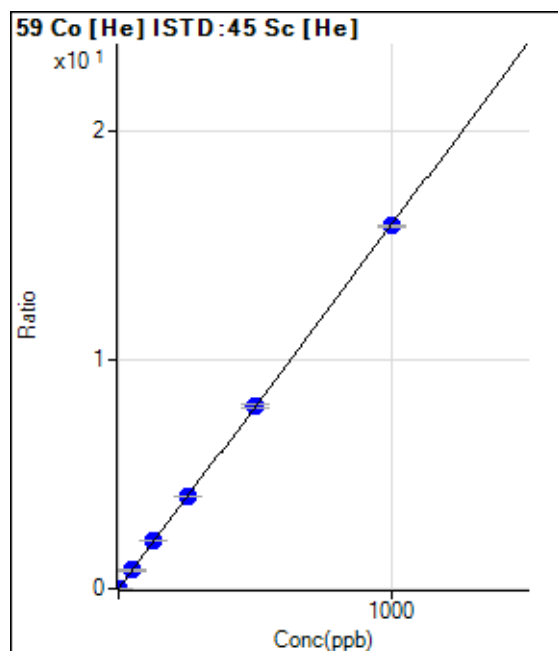
R = 1.0000

DL = 5.363

BEC = 9.235

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	45.56	0.0008	P	30.6
2	☐	0.100	0.087	117.78	0.0022	P	7.6
3	☐	1.000	1.021	922.26	0.0171	P	12.4
4	☐	50.000	50.235	45061.15	0.8012	P	1.5
5	☐	125.000	130.245	115932.71	2.0759	P	0.2
6	☐	250.000	252.797	228035.84	4.0285	P	0.5
7	☐	500.000	503.807	450201.33	8.0277	P	2.3
8	☐	1000.000	996.730	918396.47	15.8813	P	0.5
9	☐			1352.30	0.0238	P	2.2

$$y = 0.0159 * x + 7.9825\text{E-}004$$

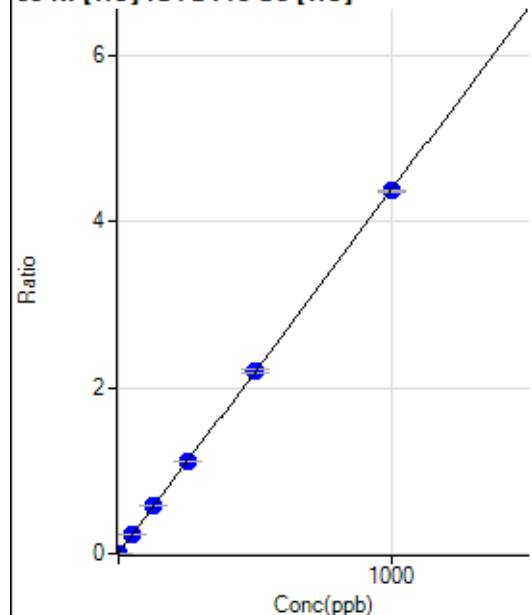
R = 1.0000

DL = 0.04606

BEC = 0.0501

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	234.59	0.0041	P	10.5
2	☒	0.100					
3	☐	1.000	1.298	531.67	0.0098	P	7.6
4	☐	50.000	52.415	13144.56	0.2337	P	1.8
5	☐	125.000	130.437	32135.54	0.5754	P	1.3
6	☐	250.000	253.776	63148.19	1.1156	P	0.9
7	☐	500.000	502.971	123779.38	2.2071	P	2.4
8	☐	1000.000	996.770	252708.40	4.3699	P	0.4
9	☐			1263.01	0.0222	P	4.3

$$y = 0.0044 * x + 0.0041$$

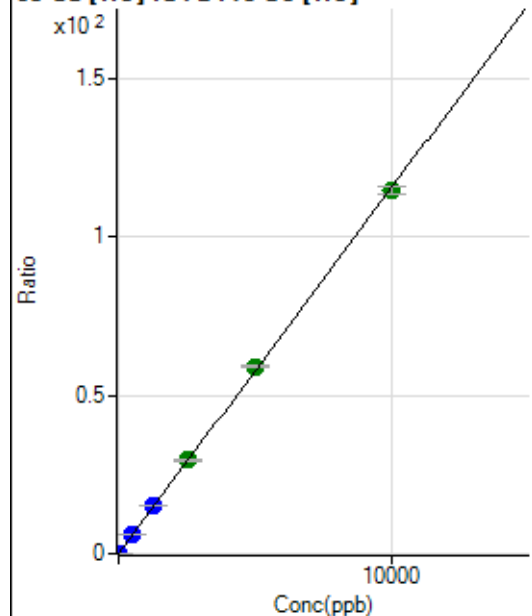
$$R = 1.0000$$

$$DL = 0.2965$$

$$BEC = 0.9382$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	472.18	0.0083	P	7.8
2	☐	0.200	0.218	580.80	0.0108	P	5.6
3	☐	2.000	2.398	1960.72	0.0360	P	6.4
4	☐	500.000	515.525	334888.63	5.9542	P	1.7
5	☐	1250.000	1319.628	850437.90	15.2285	P	0.4
6	☐	2500.000	2560.987	1672261.84	29.5460	A	1.6
7	☐	5000.000	5120.189	3312491.97	59.0631	A	1.8
8	☐	10000.000	9915.179	6613868.07	114.3672	A	2.0
9	☐			4625.43	0.0813	P	2.5

$$y = 0.0115 * x + 0.0083$$

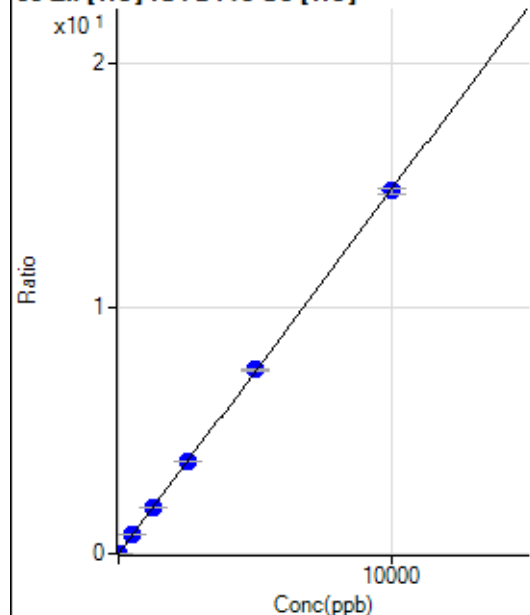
$$R = 0.9999$$

$$DL = 0.1682$$

$$BEC = 0.7187$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	52.22	0.0009	P	26.4
2	☒	0.200					
3	☐	2.000	2.459	247.78	0.0046	P	6.1
4	☐	500.000	511.434	42736.39	0.7598	P	1.6
5	☐	1250.000	1286.774	106689.00	1.9104	P	0.5
6	☐	2500.000	2531.197	212660.06	3.7570	P	0.6
7	☐	5000.000	5053.091	420627.14	7.4993	P	1.5
8	☐	10000.000	9960.487	854757.15	14.7815	P	1.5
9	☐			973.38	0.0171	P	10.4

$$y = 0.0015 * x + 9.1603E-004$$

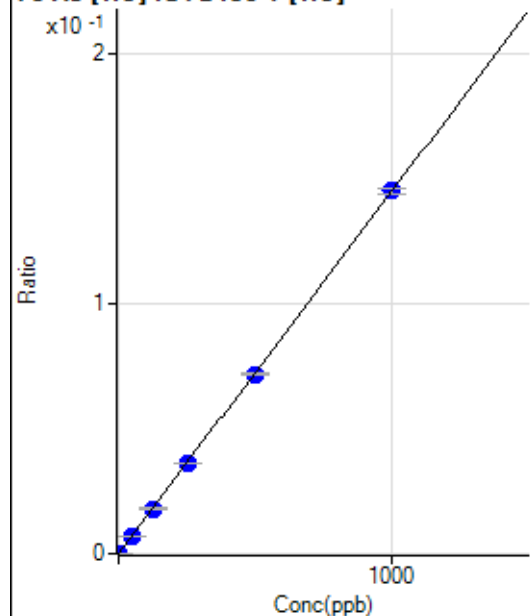
$$R = 1.0000$$

$$DL = 0.4897$$

$$BEC = 0.6173$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	7.33	0.0000	P	31.3
2	☐	0.100	0.113	13.67	0.0000	P	3.8
3	☐	1.000	1.027	69.01	0.0002	P	4.4
4	☐	50.000	49.593	3073.65	0.0072	P	2.2
5	☐	125.000	124.566	7870.66	0.0181	P	1.8
6	☐	250.000	249.373	15768.37	0.0362	P	1.1
7	☐	500.000	495.833	30933.80	0.0719	P	1.0
8	☐	1000.000	1002.315	63661.38	0.1453	P	1.6
9	☐			31.33	0.0001	P	6.7

$$y = 1.4494E-004 * x + 1.6629E-005$$

$$R = 1.0000$$

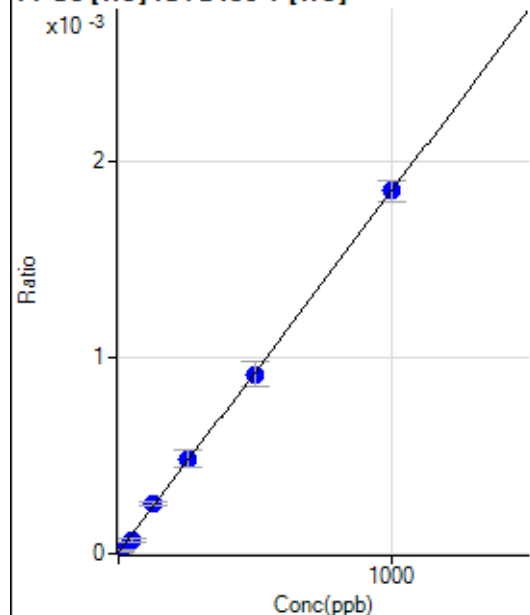
$$DL = 0.1077$$

$$BEC = 0.1147$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	2.22	0.0000	P	173.2
2	☐	0.500	4.424	5.56	0.0000	P	33.8
3	☐	5.000	4.688	5.55	0.0000	P	78.2
4	☐	50.000	35.329	30.00	0.0001	P	21.6
5	☐	125.000	135.797	111.11	0.0003	P	9.9
6	☐	250.000	258.589	210.00	0.0005	P	18.6
7	☐	500.000	493.567	393.34	0.0009	P	13.3
8	☐	1000.000	1000.453	808.92	0.0018	P	6.0
9	☐			2.22	0.0000	P	173.2

$$y = 1.8403E-006 * x + 5.2503E-006$$

$$R = 0.9997$$

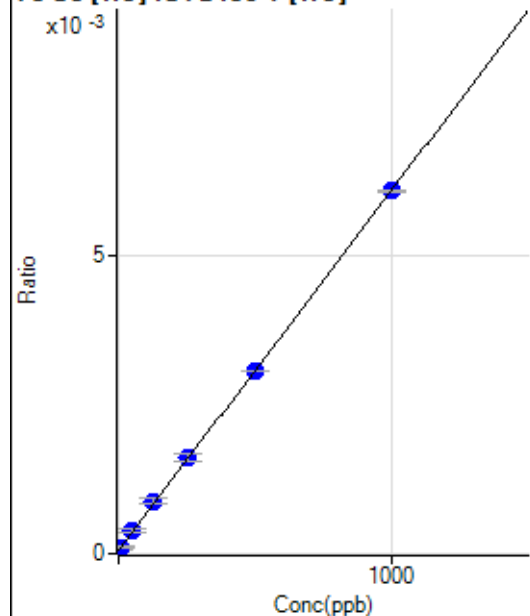
$$DL = 14.82$$

$$BEC = 2.853$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	27.00	0.0001	P	3.2
2	☐	0.500	1.472	29.00	0.0001	P	27.7
3	☐	5.000	6.928	42.67	0.0001	P	31.7
4	☐	50.000	52.893	162.68	0.0004	P	17.0
5	☐	125.000	136.087	385.04	0.0009	P	13.2
6	☐	250.000	257.173	704.43	0.0016	P	6.7
7	☐	500.000	497.658	1320.87	0.0031	P	0.8
8	☐	1000.000	997.837	2670.19	0.0061	P	0.8
9	☐			31.00	0.0001	P	6.7

$$y = 6.0446E-006 * x + 6.1643E-005$$

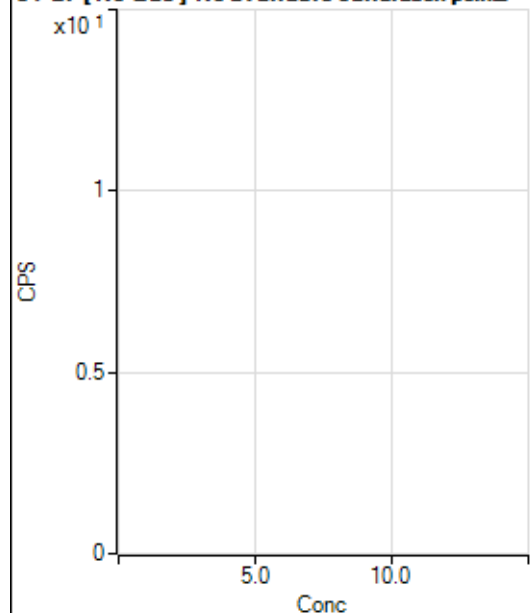
$$R = 0.9999$$

$$DL = 0.9818$$

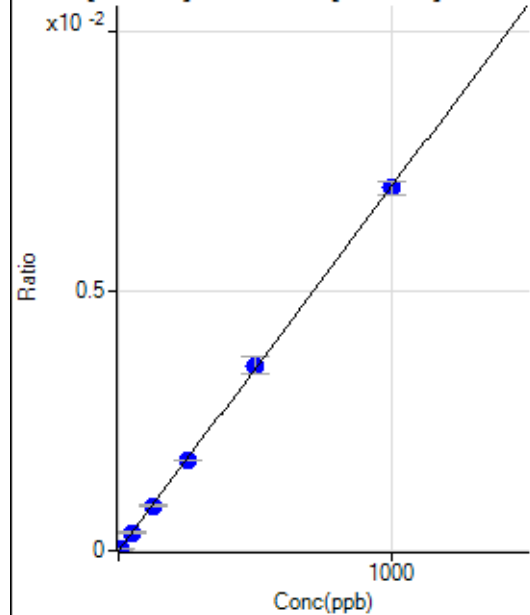
$$BEC = 10.2$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			2556.20		P	1.3
2	☐			2649.66		P	6.5
3	☐			2572.90		P	3.3
4	☐			2632.97		P	6.2
5	☐			2609.60		P	2.7
6	☐			2562.89		P	5.1
7	☐			2542.89		P	5.6
8	☐			2676.36		P	7.1
9	☐			2906.62		P	5.3

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	0.99	0.0000	P	-11096.
2	☒	0.500					
3	☐	5.000	5.099	184.98	0.0000	P	21.4
4	☐	50.000	49.525	1781.78	0.0003	P	5.9
5	☐	125.000	122.665	4371.55	0.0009	P	2.9
6	☐	250.000	246.562	8826.03	0.0017	P	0.7
7	☐	500.000	509.488	17428.77	0.0036	P	8.9
8	☐	1000.000	996.431	34577.25	0.0070	P	3.5
9	☐			13.94	0.0000	P	442.1

$$y = 7.0064E-006 * x - 1.0031E-007$$

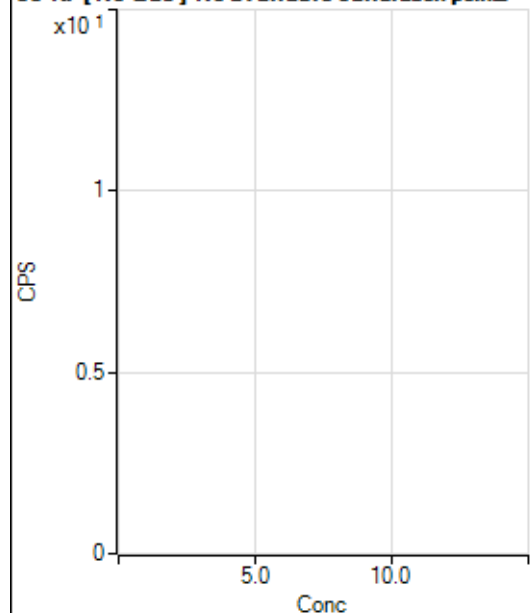
$$R = 0.9999$$

$$DL = 4.766$$

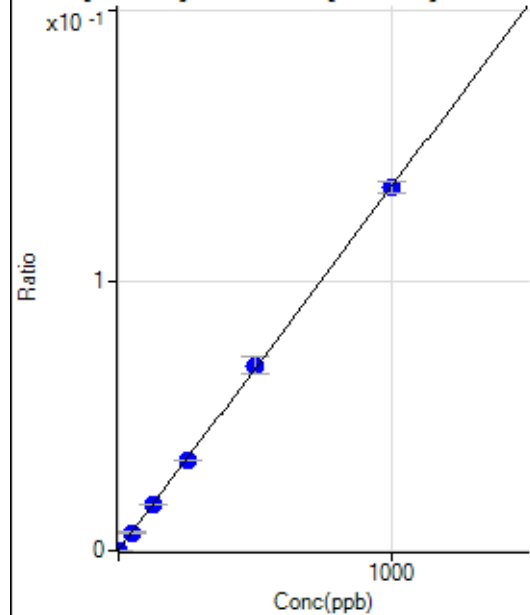
$$BEC = -0.01432$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			453.34		P	10.2
2	☐			462.24		P	15.2
3	☐			483.35		P	6.1
4	☐			445.57		P	5.6
5	☐			517.79		P	11.7
6	☐			462.24		P	13.1
7	☐			467.79		P	7.8
8	☐			500.02		P	10.0
9	☐			458.90		P	10.9

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	736.15	0.0002	P	13.0
2	☐	0.100	0.042	775.04	0.0002	P	8.3
3	☐	1.000	0.990	1475.13	0.0003	P	7.4
4	☐	50.000	48.884	34590.54	0.0067	P	3.0
5	☐	125.000	124.515	86056.09	0.0169	P	1.7
6	☐	250.000	247.682	171119.13	0.0335	P	1.9
7	☐	500.000	507.966	334606.26	0.0685	P	9.0
8	☐	1000.000	996.713	665385.96	0.1343	P	3.1
9	☐			4870.41	0.0009	P	1.4

$$y = 1.3461E-004 * x + 1.5193E-004$$

$$R = 1.0000$$

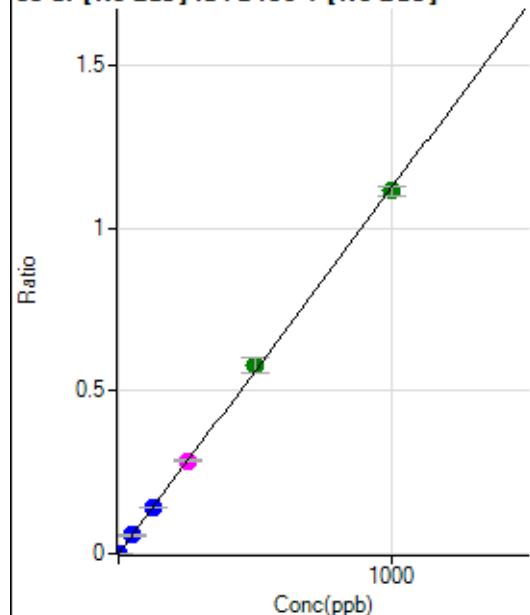
$$DL = 0.4398$$

$$BEC = 1.129$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	130.56	0.0000	P	27.0
2	☐	0.100	0.104	708.37	0.0001	P	11.3
3	☐	1.000	1.083	6443.35	0.0012	P	6.2
4	☐	50.000	50.375	291221.49	0.0567	P	2.4
5	☐	125.000	126.915	726443.08	0.1428	P	0.8
6	☐	250.000	253.112	1454408.24	0.2847	M	1.8
7	☐	500.000	513.927	2822502.73	0.5780	A	8.6
8	☐	1000.000	992.000	5527081.81	1.1156	A	2.7
9	☐			35924.69	0.0068	P	1.7

$$y = 0.0011 * x + 2.7123E-005$$

$$R = 0.9999$$

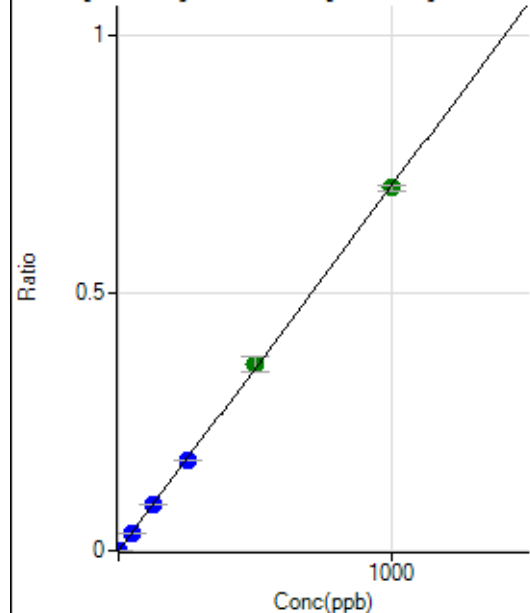
$$DL = 0.01952$$

$$BEC = 0.02412$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	213.90	0.0000	P	22.2
2	☐	0.100	0.086	519.47	0.0001	P	9.9
3	☐	1.000	0.967	3772.83	0.0007	P	6.7
4	☐	50.000	49.566	180623.16	0.0351	P	1.4
5	☐	125.000	126.877	457438.54	0.0899	P	1.4
6	☐	250.000	248.919	900949.60	0.1763	P	1.1
7	☐	500.000	511.041	1767307.70	0.3620	A	8.8
8	☐	1000.000	994.537	3490919.61	0.7044	A	1.8
9	☐			1450.12	0.0003	P	10.0

$$y = 7.0824E-004 * x + 4.4334E-005$$

$$R = 0.9999$$

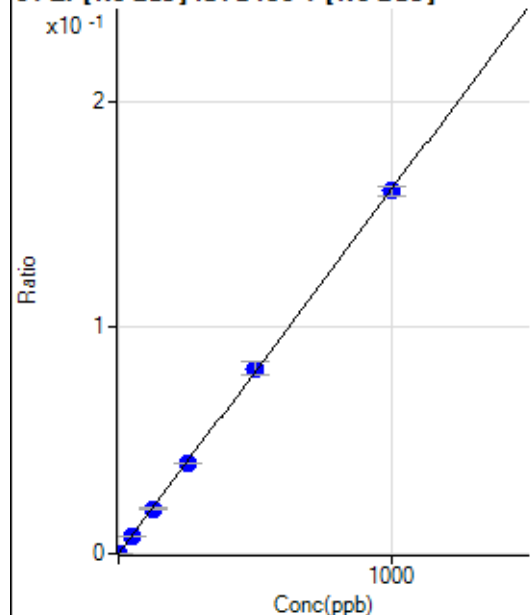
$$DL = 0.04163$$

$$BEC = 0.0626$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	41.67	0.0000	P	51.1
2	☐	0.100	0.063	91.67	0.0000	P	42.4
3	☐	1.000	0.934	822.27	0.0002	P	8.1
4	☐	50.000	48.256	39946.79	0.0078	P	3.0
5	☐	125.000	123.895	101488.10	0.0199	P	2.4
6	☐	250.000	247.652	203681.78	0.0399	P	1.7
7	☐	500.000	509.267	400348.44	0.0820	P	8.1
8	☐	1000.000	996.179	794487.19	0.1603	P	2.4
9	☐			341.68	0.0001	P	6.1

$$y = 1.6095E-004 * x + 8.5715E-006$$

$$R = 0.9999$$

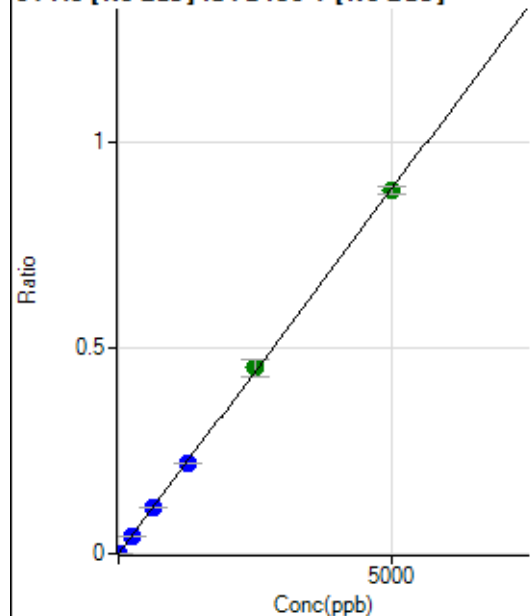
$$DL = 0.08157$$

$$BEC = 0.05326$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	125.00	0.0000	P	25.3
2	☐	0.500	0.463	530.58	0.0001	P	19.7
3	☐	5.000	4.615	4370.28	0.0008	P	1.9
4	☐	250.000	241.277	219821.56	0.0428	P	2.9
5	☐	625.000	627.990	566359.45	0.1113	P	1.7
6	☐	1250.000	1239.483	1122348.39	0.2197	P	1.2
7	☐	2500.000	2553.887	2209328.28	0.4526	A	9.1
8	☐	5000.000	4975.748	4369255.44	0.8818	A	2.2
9	☐			1950.19	0.0004	P	6.3

$$y = 1.7721E-004 * x + 2.5988E-005$$

$$R = 0.9999$$

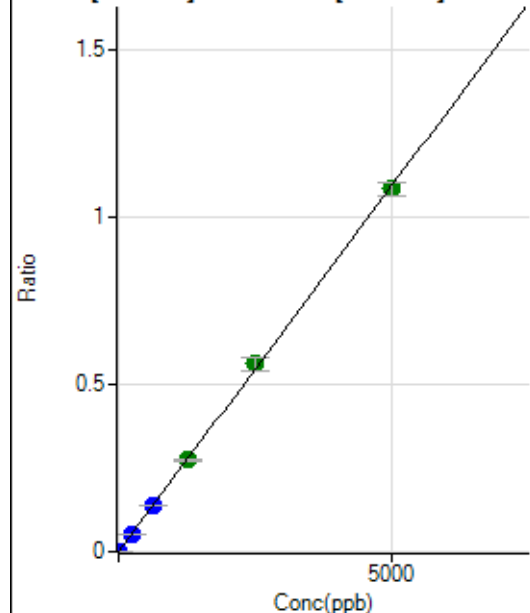
$$DL = 0.1113$$

$$BEC = 0.1467$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	38.89	0.0000	P	29.1
2	☐	0.500	0.470	544.47	0.0001	P	12.3
3	☐	5.000	4.745	5415.11	0.0010	P	1.6
4	☐	250.000	246.828	277515.45	0.0540	P	2.2
5	☐	625.000	630.808	702239.34	0.1380	P	1.7
6	☐	1250.000	1252.131	1399612.93	0.2740	A	1.9
7	☐	2500.000	2571.341	2748309.59	0.5626	A	7.2
8	☐	5000.000	4963.229	5378490.31	1.0859	A	3.8
9	☐			2311.36	0.0004	P	8.1

$$y = 2.1878E-004 * x + 7.9450E-006$$

$$R = 0.9999$$

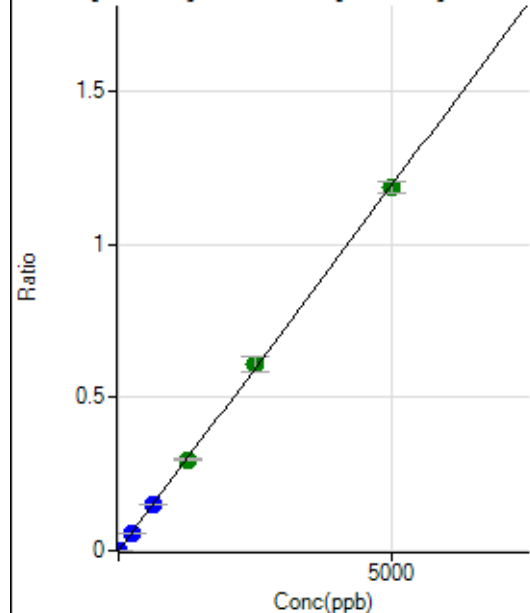
$$DL = 0.03172$$

$$BEC = 0.03631$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	116.67	0.0000	P	31.9
2	☐	0.500	0.551	763.93	0.0002	P	15.6
3	☐	5.000	4.818	6065.36	0.0012	P	4.0
4	☐	250.000	246.621	301822.28	0.0587	P	2.3
5	☐	625.000	630.542	764024.35	0.1501	P	0.9
6	☐	1250.000	1246.063	1515871.64	0.2967	A	2.0
7	☐	2500.000	2563.834	2980859.22	0.6104	A	8.3
8	☐	5000.000	4968.544	5859546.31	1.1830	A	3.3
9	☐			2975.42	0.0006	P	19.6

$$y = 2.3808E-004 * x + 2.4077E-005$$

$$R = 0.9999$$

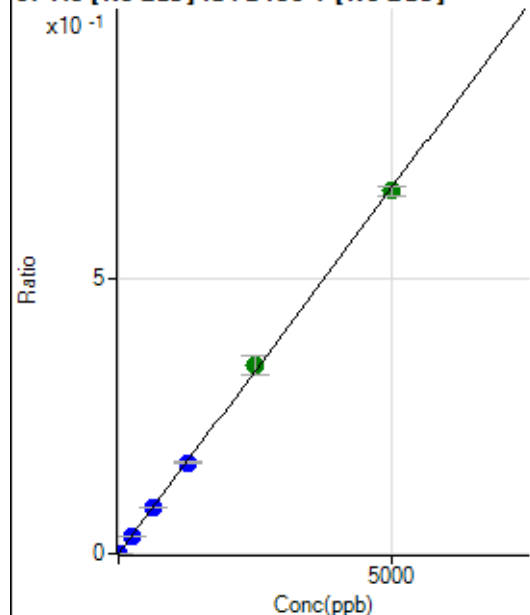
$$DL = 0.09693$$

$$BEC = 0.1011$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	11.11	0.0000	P	49.4
2	☐	0.500	0.415	283.34	0.0001	P	20.0
3	☐	5.000	4.894	3386.64	0.0007	P	5.8
4	☐	250.000	246.237	168484.21	0.0328	P	0.9
5	☐	625.000	632.164	428284.88	0.0842	P	1.1
6	☐	1250.000	1245.335	847097.08	0.1658	P	1.3
7	☐	2500.000	2578.675	1675677.52	0.3433	A	9.5
8	☐	5000.000	4961.122	3272583.36	0.6605	A	2.6
9	☐			1338.99	0.0003	P	0.5

$$y = 1.3313\text{E-}004 * x + 2.3302\text{E-}006$$

$$R = 0.9998$$

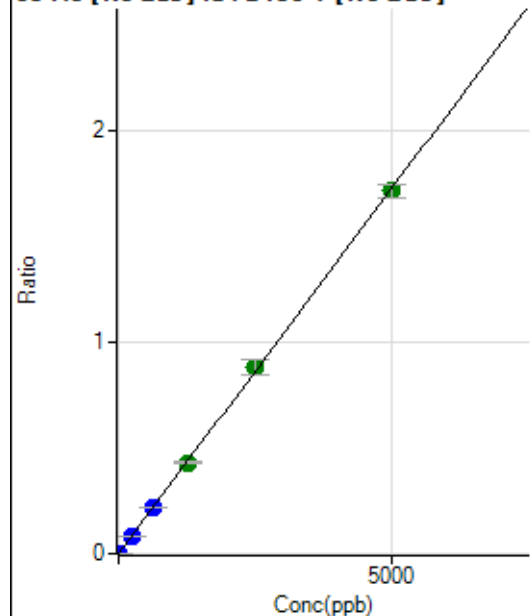
$$DL = 0.02592$$

$$BEC = 0.0175$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	58.34	0.0000	P	42.5
2	☐	0.500	0.425	780.60	0.0002	P	12.8
3	☐	5.000	4.790	8627.89	0.0017	P	2.0
4	☐	250.000	244.028	433205.79	0.0843	P	2.5
5	☐	625.000	635.460	1116955.22	0.2195	P	1.9
6	☐	1250.000	1248.013	2202732.95	0.4311	A	1.8
7	☐	2500.000	2557.927	4314322.14	0.8837	A	8.7
8	☐	5000.000	4970.525	8504719.81	1.7171	A	3.5
9	☐			3603.36	0.0007	P	5.8

$$y = 3.4546\text{E-}004 * x + 1.2072\text{E-}005$$

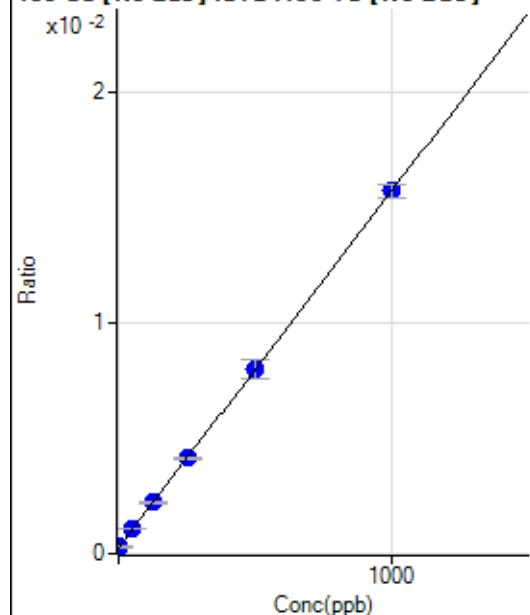
$$R = 0.9999$$

$$DL = 0.04456$$

$$BEC = 0.03495$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	972.28	0.0003	P	4.7
2	☐	0.100	-2.426	852.83	0.0003	P	7.6
3	☐	1.000	0.231	1052.85	0.0003	P	6.5
4	☐	50.000	51.193	3733.95	0.0011	P	1.1
5	☐	125.000	124.418	7563.36	0.0022	P	1.8
6	☐	250.000	250.858	14596.97	0.0042	P	1.9
7	☐	500.000	499.238	26896.06	0.0080	P	10.4
8	☐	1000.000	1000.180	53420.83	0.0157	P	3.8
9	☐			1041.74	0.0003	P	16.7

$$y = 1.5440\text{E-}005 * x + 2.9601\text{E-}004$$

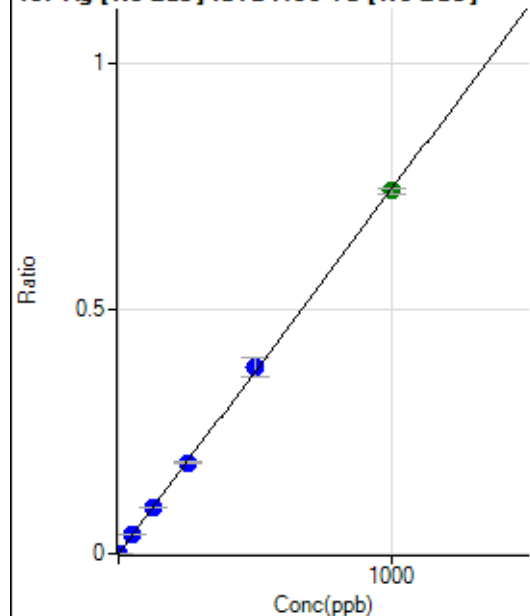
$$R = 1.0000$$

$$DL = 2.679$$

$$BEC = 19.17$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	50.00	0.0000	P	40.1
2	☐	0.100	0.071	225.01	0.0001	P	26.4
3	☐	1.000	0.944	2522.52	0.0007	P	4.6
4	☐	50.000	50.589	129379.19	0.0376	P	1.7
5	☐	125.000	127.663	323929.90	0.0950	P	1.1
6	☐	250.000	248.680	647761.29	0.1850	P	1.7
7	☐	500.000	509.268	1273316.77	0.3789	P	10.4
8	☐	1000.000	995.334	2513566.03	0.7405	A	1.7
9	☐			997.29	0.0003	P	7.1

$$y = 7.4391\text{E-}004 * x + 1.5048\text{E-}005$$

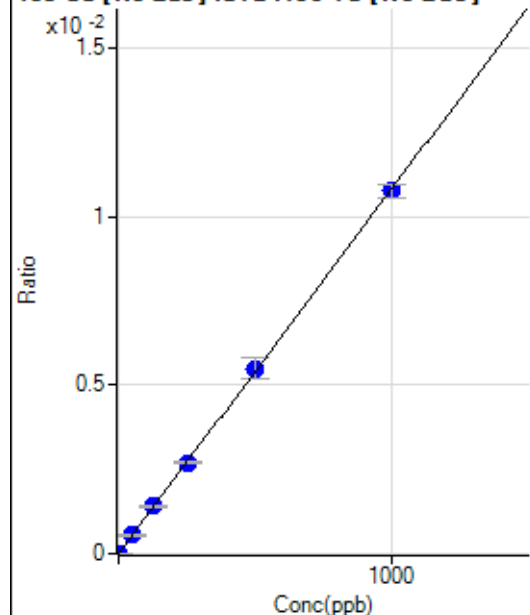
$$R = 0.9999$$

$$DL = 0.02432$$

$$BEC = 0.02023$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	9.72	0.0000	P	63.1
2	☐	0.100	0.195	16.67	0.0000	P	66.6
3	☐	1.000	0.716	37.50	0.0000	P	34.8
4	☐	50.000	50.433	1884.87	0.0005	P	4.2
5	☐	125.000	129.658	4792.56	0.0014	P	6.1
6	☐	250.000	248.805	9435.27	0.0027	P	2.1
7	☐	500.000	508.687	18493.09	0.0055	P	11.9
8	☐	1000.000	995.352	36542.79	0.0108	P	3.6
9	☐			34.72	0.0000	P	35.5

$$y = 1.0820\text{E-}005 * x + 2.9542\text{E-}006$$

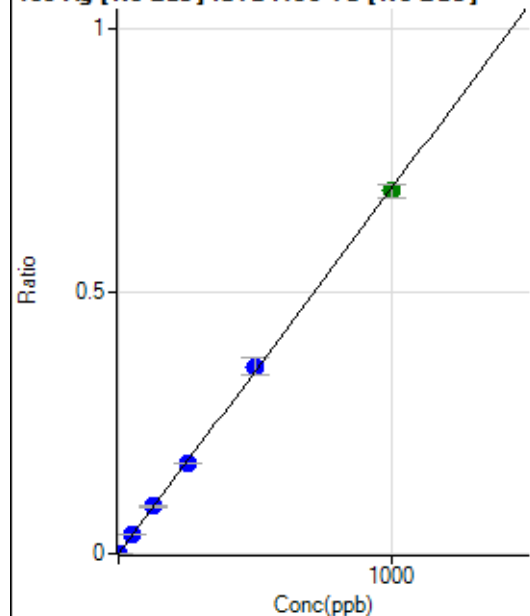
$$R = 0.9999$$

$$DL = 0.5165$$

$$BEC = 0.273$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	30.56	0.0000	P	75.9
2	☐	0.100	0.082	219.45	0.0001	P	5.6
3	☐	1.000	1.045	2591.99	0.0007	P	11.3
4	☐	50.000	50.963	121970.79	0.0355	P	0.9
5	☐	125.000	129.583	307670.15	0.0902	P	2.0
6	☐	250.000	248.834	606657.32	0.1732	P	0.7
7	☐	500.000	512.443	1199239.36	0.3568	P	9.8
8	☐	1000.000	993.449	2346496.17	0.6917	A	3.7
9	☐			986.18	0.0003	P	14.7

$$y = 6.9620\text{E-}004 * x + 9.1829\text{E-}006$$

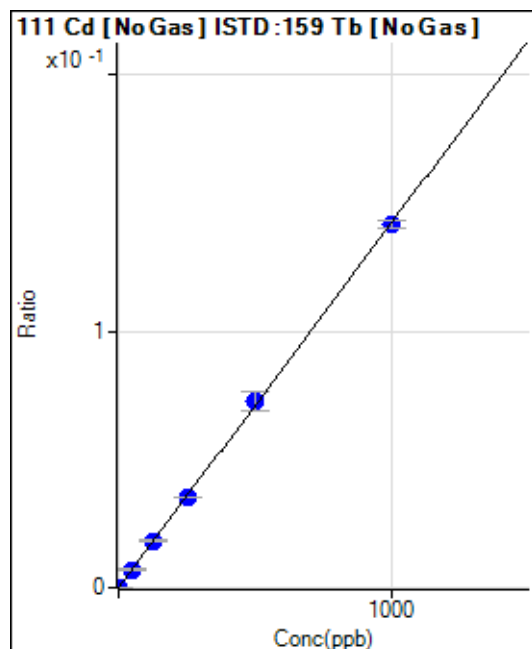
$$R = 0.9999$$

$$DL = 0.03005$$

$$BEC = 0.01319$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	25.84	0.0000	P	17.8
2	☐	0.100	0.089	67.70	0.0000	P	8.3
3	☐	1.000	1.119	587.77	0.0002	P	2.5
4	☐	50.000	49.628	24288.04	0.0071	P	3.4
5	☐	125.000	128.950	62588.85	0.0184	P	1.7
6	☐	250.000	247.869	123506.98	0.0353	P	1.4
7	☐	500.000	511.026	244439.83	0.0727	P	9.8
8	☐	1000.000	994.544	480271.20	0.1415	P	2.2
9	☐			257.64	0.0001	P	17.0

$$y = 1.4227\text{E-}004 * x + 7.8641\text{E-}006$$

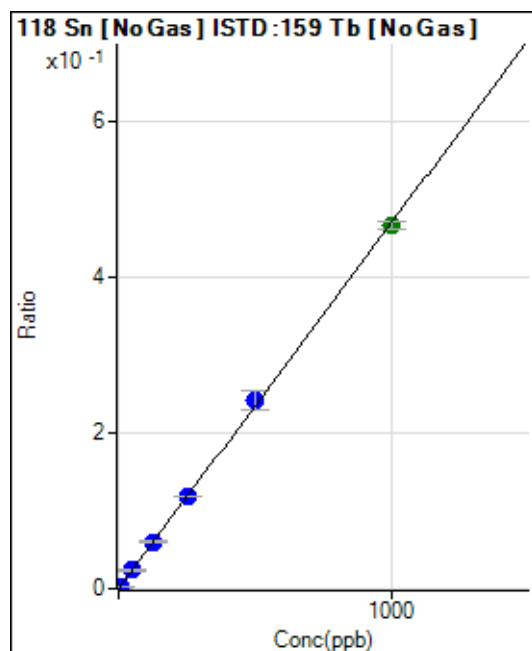
$$R = 0.9999$$

$$DL = 0.02945$$

$$BEC = 0.05527$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	236.12	0.0001	P	23.7
2	☐	0.500	0.564	1111.19	0.0003	P	2.3
3	☐	5.000	5.136	8753.05	0.0025	P	3.5
4	☐	50.000	50.068	81218.87	0.0236	P	1.7
5	☐	125.000	128.558	206545.05	0.0606	P	1.7
6	☐	250.000	252.298	416024.60	0.1188	P	0.4
7	☐	500.000	514.828	814874.04	0.2423	P	9.3
8	☐	1000.000	991.563	1584287.59	0.4667	A	2.1
9	☐			913.95	0.0003	P	2.4

$$y = 4.7059\text{E-}004 * x + 7.1538\text{E-}005$$

$$R = 0.9998$$

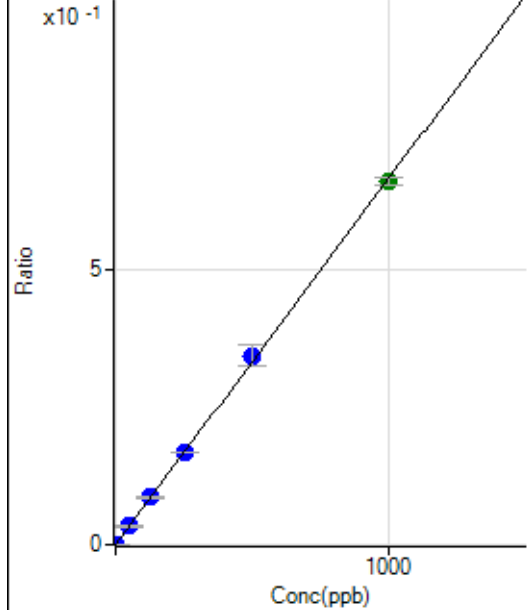
$$DL = 0.108$$

$$BEC = 0.152$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	36.11	0.0000	P	68.8
2	☐	0.200	0.203	483.36	0.0001	P	16.0
3	☐	2.000	2.040	4823.19	0.0014	P	4.1
4	☐	50.000	49.960	114581.51	0.0333	P	2.5
5	☐	125.000	128.951	293395.25	0.0860	P	2.7
6	☐	250.000	250.386	585043.78	0.1671	P	0.2
7	☐	500.000	515.841	1156321.75	0.3442	P	11.0
8	☐	1000.000	991.491	2245657.43	0.6615	A	1.9
9	☐			1619.60	0.0004	P	12.2

$$y = 6.6721\text{E-}004 * x + 1.0717\text{E-}005$$

$$R = 0.9998$$

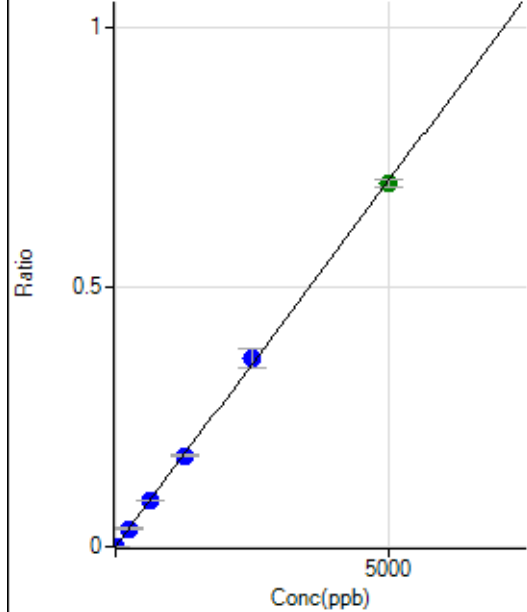
$$DL = 0.03314$$

$$BEC = 0.01606$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	30.56	0.0000	P	46.1
2	☐	1.000	1.094	538.92	0.0002	P	2.6
3	☐	10.000	9.923	4945.47	0.0014	P	3.3
4	☐	250.000	247.274	119570.11	0.0348	P	3.1
5	☐	625.000	636.150	305232.62	0.0895	P	2.3
6	☐	1250.000	1248.292	614925.96	0.1756	P	1.9
7	☐	2500.000	2578.881	1219793.67	0.3628	P	9.6
8	☐	5000.000	4959.729	2368442.00	0.6978	A	2.2
9	☐			791.72	0.0002	P	10.9

$$y = 1.4069\text{E-}004 * x + 9.4261\text{E-}006$$

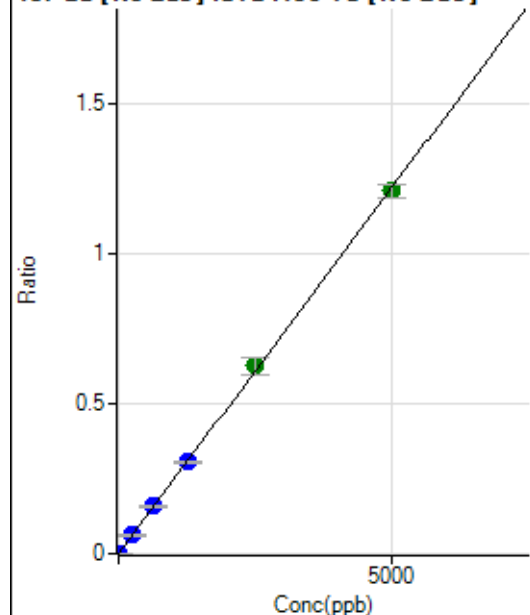
$$R = 0.9998$$

$$DL = 0.09265$$

$$BEC = 0.067$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	63.89	0.0000	P	24.9
2	☐	1.000	1.097	944.50	0.0003	P	7.2
3	☐	10.000	9.828	8480.68	0.0024	P	5.2
4	☐	250.000	250.572	209535.06	0.0610	P	2.9
5	☐	625.000	648.205	537816.61	0.1577	P	2.2
6	☐	1250.000	1255.082	1069202.87	0.3054	P	1.2
7	☐	2500.000	2566.839	2099847.01	0.6245	A	9.1
8	☐	5000.000	4962.381	4095456.86	1.2073	A	3.7
9	☐			1330.66	0.0004	P	12.8

$$y = 2.4329E-004 * x + 1.9401E-005$$

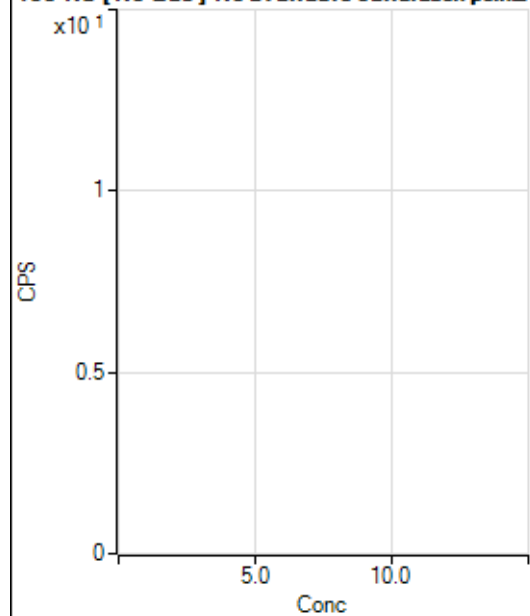
$$R = 0.9999$$

$$DL = 0.05954$$

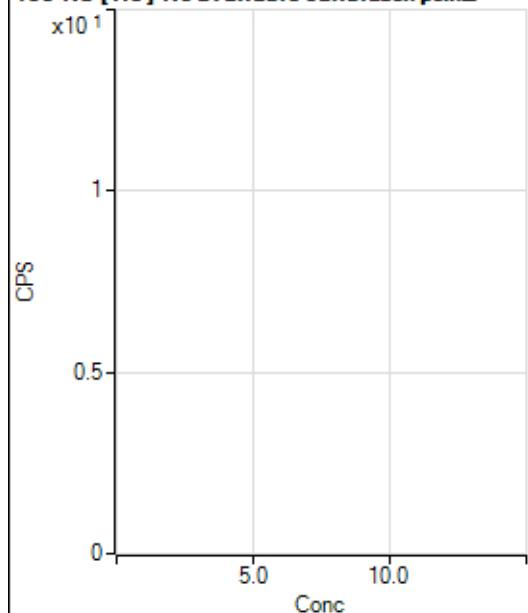
$$BEC = 0.07974$$

Weight: <None>

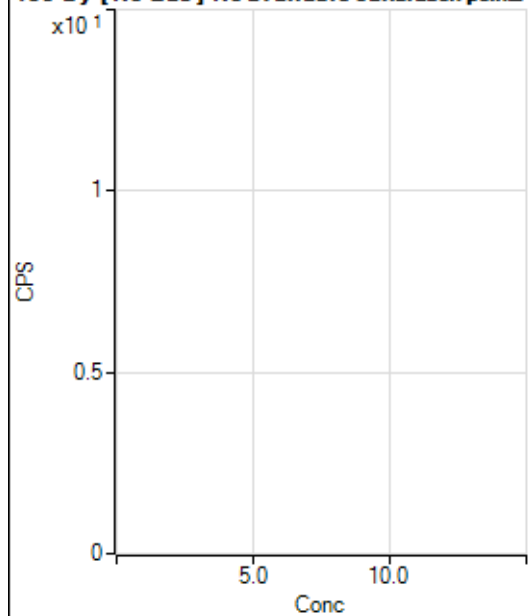
Min Conc: 0

150 Nd [No Gas] No available calibration points

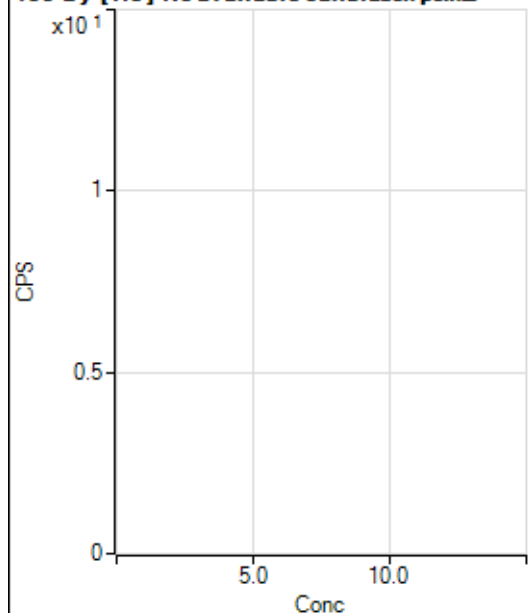
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			8.89		P	43.3
2	☐			4.45		P	86.6
3	☐			8.89		P	43.3
4	☐			6.67		P	100.0
5	☐			24.45		P	15.8
6	☐			48.89		P	15.7
7	☐			120.00		P	33.8
8	☐			113.34		P	41.2
9	☐			15.56		P	65.5

150 Nd [He] No available calibration points

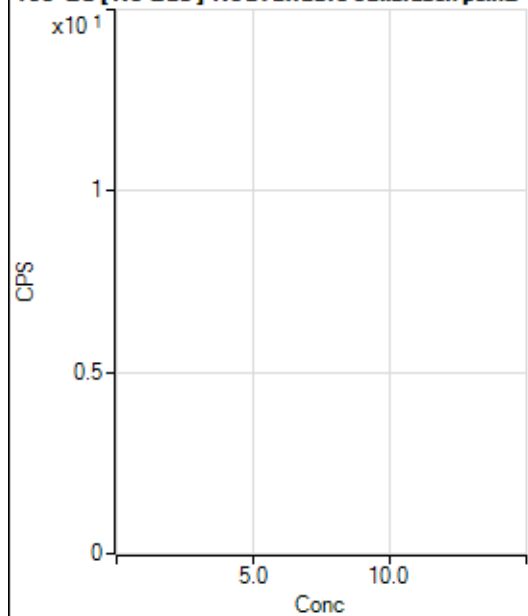
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			1.11		P	173.2
2	☐			0.00		P	
3	☐			0.00		P	
4	☐			2.22		P	86.6
5	☐			2.22		P	173.2
6	☐			3.33		P	100.1
7	☐			14.44		P	35.3
8	☐			13.33		P	25.0
9	☐			5.56		P	173.2

156 Dy [No Gas] No available calibration points

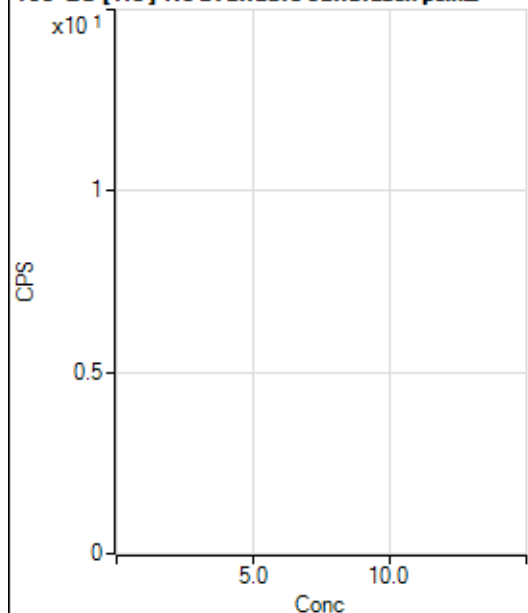
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			5.55		P	86.6
2	☐			8.33		P	0.0
3	☐			13.89		P	91.6
4	☐			11.11		P	43.3
5	☐			22.22		P	21.6
6	☐			38.89		P	44.6
7	☐			94.45		P	27.0
8	☐			152.79		P	22.0
9	☐			563.92		P	8.7

156 Dy [He] No available calibration points

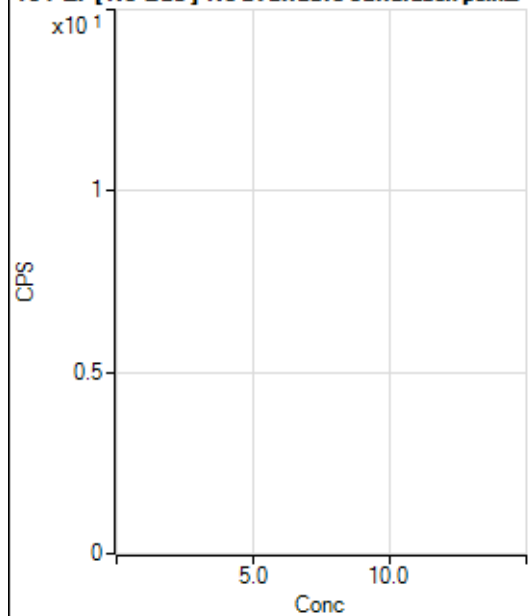
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			3.33		P	0.0
2	☐			2.22		P	173.2
3	☐			2.22		P	86.6
4	☐			12.22		P	31.5
5	☐			4.44		P	43.4
6	☐			10.00		P	57.8
7	☐			41.11		P	24.8
8	☐			51.11		P	22.9
9	☐			222.23		P	22.1

160 Gd [No Gas] Noavailable calibration poin_

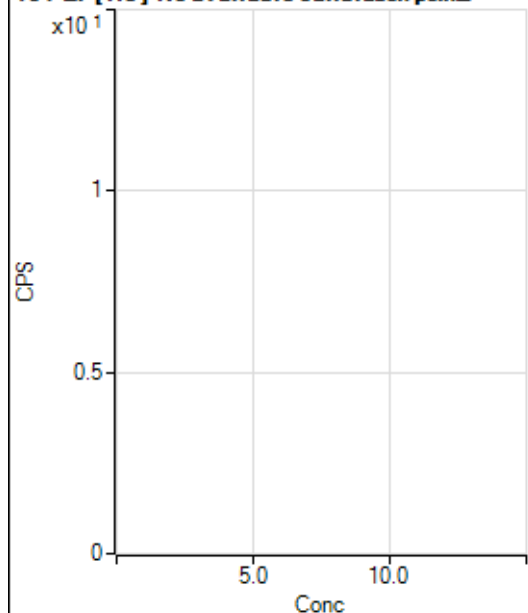
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			25.00		P	33.3
2	☐			22.22		P	94.4
3	☐			25.00		P	57.7
4	☐			36.11		P	66.6
5	☐			22.22		P	43.3
6	☐			38.89		P	12.4
7	☐			102.78		P	38.3
8	☐			200.01		P	26.0
9	☐			611.14		P	20.5

160 Gd [He] No available calibration points

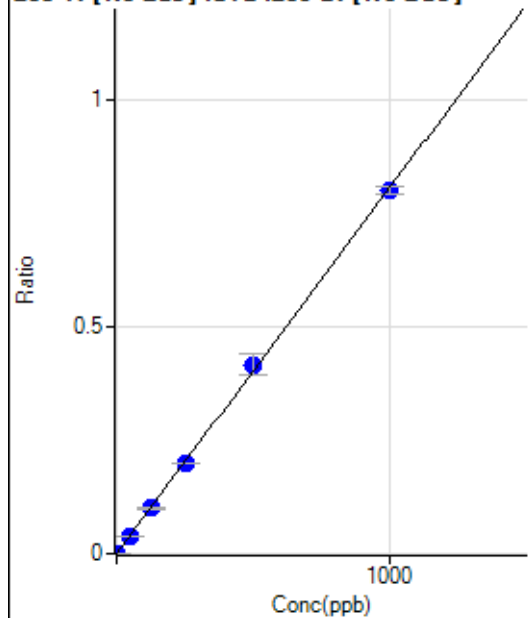
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			1.11		P	173.2
2	☐			5.56		P	91.6
3	☐			6.67		P	86.6
4	☐			11.11		P	45.8
5	☐			13.33		P	43.3
6	☐			21.11		P	63.8
7	☐			45.55		P	8.5
8	☐			66.67		P	15.0
9	☐			294.45		P	10.5

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			27.78		P	45.8
2	☐			22.22		P	43.3
3	☐			30.56		P	56.8
4	☐			27.78		P	45.8
5	☐			25.00		P	33.3
6	☐			27.78		P	45.8
7	☐			55.56		P	34.6
8	☐			27.78		P	45.8
9	☐			97.22		P	42.3

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			4.44		P	114.6
2	☐			7.78		P	89.2
3	☐			3.33		P	100.1
4	☐			5.56		P	91.6
5	☐			2.22		P	86.6
6	☐			15.55		P	24.8
7	☐			16.66		P	34.6
8	☐			12.22		P	78.7
9	☐			40.00		P	22.0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	105.56	0.0001	P	9.9
2	☐	0.100	0.098	252.79	0.0001	P	20.4
3	☐	1.000	0.944	1575.15	0.0008	P	11.0
4	☐	50.000	49.124	73757.00	0.0396	P	0.2
5	☐	125.000	124.177	187484.97	0.0999	P	1.5
6	☐	250.000	247.547	375592.17	0.1991	P	1.6
7	☐	500.000	517.271	746326.41	0.4160	P	11.7
8	☐	1000.000	992.124	1453572.00	0.7978	P	2.1
9	☐			977.85	0.0005	P	11.9

$$y = 8.0405E-004 * x + 5.9566E-005$$

$$R = 0.9998$$

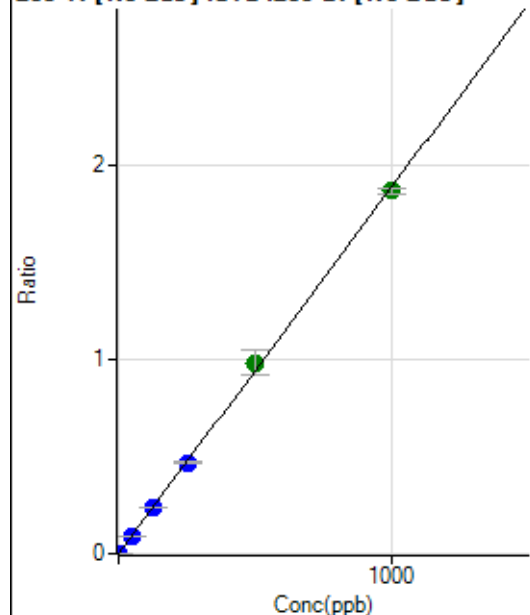
$$DL = 0.02198$$

$$BEC = 0.07408$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	213.90	0.0001	P	40.6
2	☐	0.100	0.117	619.48	0.0003	P	15.8
3	☐	1.000	0.943	3642.29	0.0019	P	1.6
4	☐	50.000	49.460	173842.92	0.0932	P	0.9
5	☐	125.000	124.688	440729.20	0.2349	P	1.5
6	☐	250.000	248.311	882079.40	0.4676	P	2.2
7	☐	500.000	520.575	1757234.32	0.9802	A	13.4
8	☐	1000.000	990.201	3397478.16	1.8644	A	1.4
9	☐			2475.31	0.0013	P	7.2

$$y = 0.0019 * x + 1.1852E-004$$

$$R = 0.9997$$

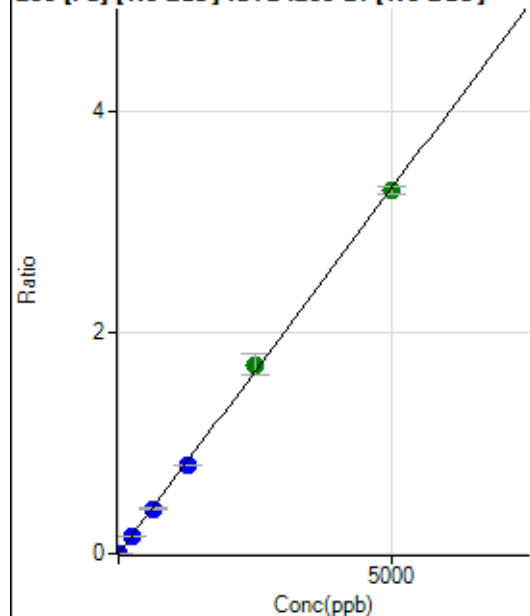
$$DL = 0.07676$$

$$BEC = 0.06295$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	385.20	0.0002	P	14.1
2	☐	0.100	0.081	490.76	0.0003	P	5.2
3	☐	1.000	0.900	1557.53	0.0008	P	5.8
4	☐	250.000	240.065	296005.47	0.1588	P	0.7
5	☐	625.000	613.117	760119.03	0.4051	P	2.3
6	☐	1250.000	1216.445	1516050.34	0.8036	P	0.9
7	☐	2500.000	2587.298	3066190.00	1.7089	A	11.6
8	☐	5000.000	4966.722	5976369.00	3.2803	A	2.3
9	☐			12105.85	0.0064	P	2.5

$$y = 6.6042E-004 * x + 2.1522E-004$$

$$R = 0.9998$$

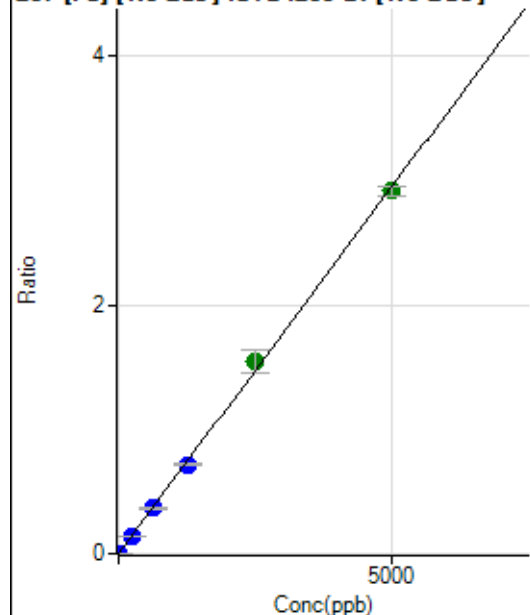
$$DL = 0.1383$$

$$BEC = 0.3259$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	346.31	0.0002	P	19.5
2	☐	0.100	0.081	444.46	0.0002	P	9.0
3	☐	1.000	0.893	1389.00	0.0007	P	5.3
4	☐	250.000	242.260	266472.92	0.1429	P	0.7
5	☐	625.000	617.043	682290.95	0.3637	P	2.8
6	☐	1250.000	1214.918	1350625.51	0.7159	P	0.9
7	☐	2500.000	2621.218	2769774.34	1.5443	A	12.3
8	☐	5000.000	4949.543	5313076.45	2.9160	A	2.3
9	☐			11019.70	0.0059	P	0.7

$$y = 5.8910E-004 * x + 1.9602E-004$$

$$R = 0.9996$$

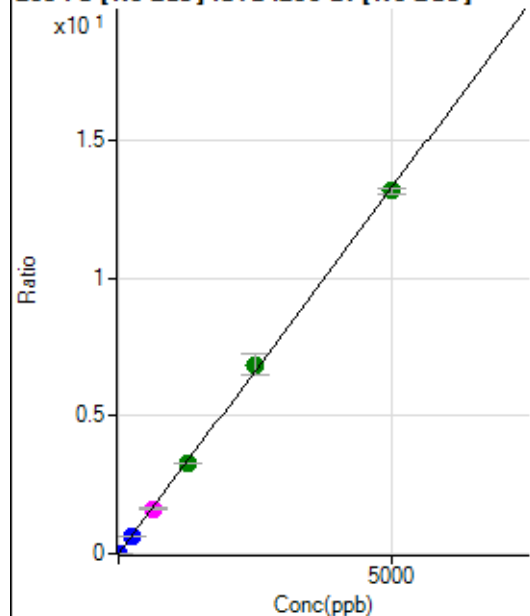
$$DL = 0.1947$$

$$BEC = 0.3327$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1546.37	0.0009	P	6.2
2	☐	0.100	0.087	2011.21	0.0011	P	4.8
3	☐	1.000	0.899	6271.08	0.0033	P	2.2
4	☐	250.000	242.366	1202412.37	0.6449	P	0.4
5	☐	625.000	616.026	3073100.11	1.6378	M	1.9
6	☐	1250.000	1232.835	6181760.44	3.2768	A	1.3
7	☐	2500.000	2589.652	12350633.6	6.8822	A	11.2
8	☐	5000.000	4960.969	24025801.4	13.1833	A	1.4
9	☐			49393.28	0.0263	P	0.8

$$y = 0.0027 * x + 8.6986E-004$$

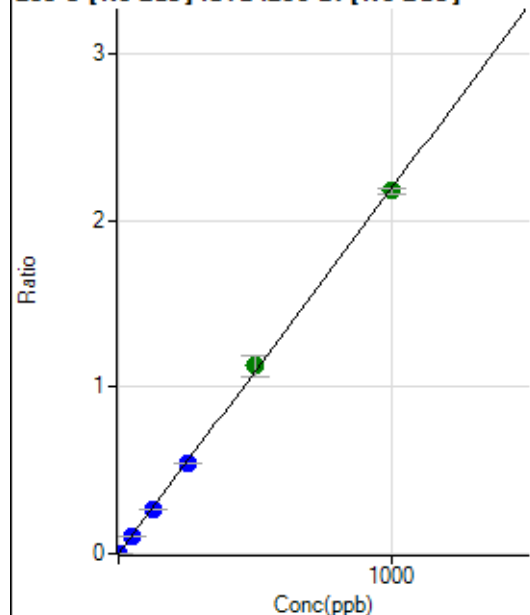
$$R = 0.9998$$

$$DL = 0.06057$$

$$BEC = 0.3274$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	27.78	0.0000	P	118.5
2	☐	0.100	0.089	383.35	0.0002	P	26.4
3	☐	1.000	1.043	4431.47	0.0023	P	6.3
4	☐	50.000	48.301	197624.36	0.1060	P	2.5
5	☐	125.000	123.043	506657.89	0.2700	P	1.1
6	☐	250.000	247.049	1022616.95	0.5421	P	1.2
7	☐	500.000	515.314	2028967.71	1.1307	A	11.2
8	☐	1000.000	993.411	3972802.00	2.1796	A	1.6
9	☐			530.59	0.0003	P	20.1

$$y = 0.0022 * x + 1.5189E-005$$

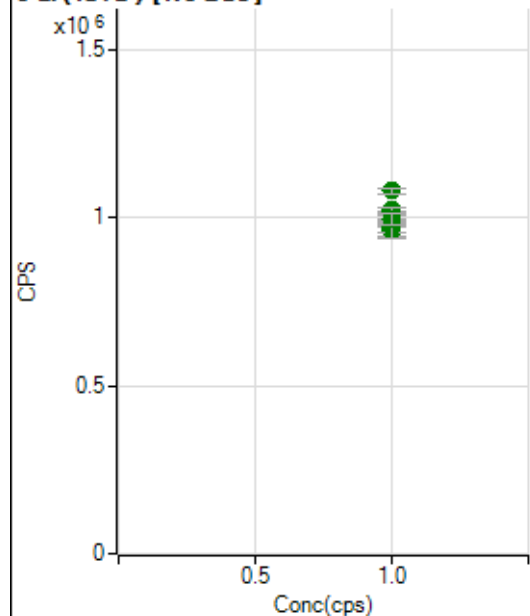
$$R = 0.9998$$

$$DL = 0.02462$$

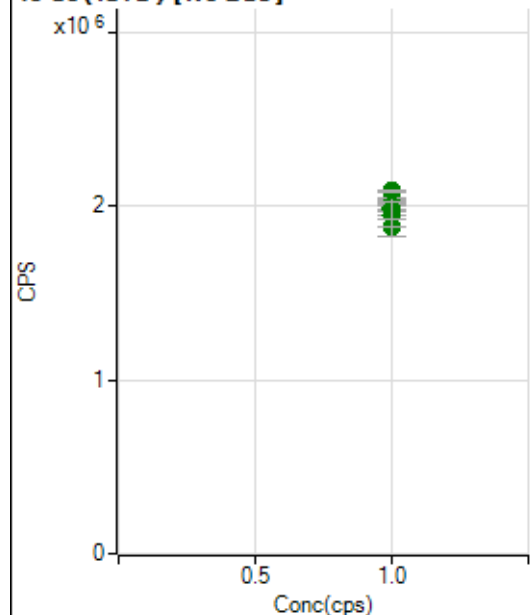
$$BEC = 0.006923$$

Weight: <None>

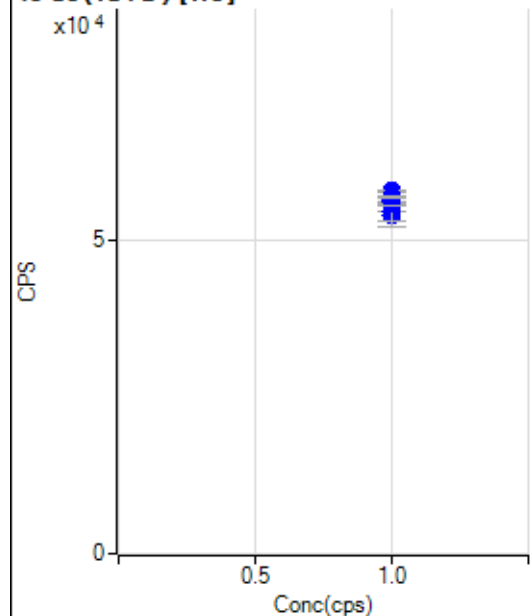
Min Conc: 0

6 Li (ISTD) [No Gas]

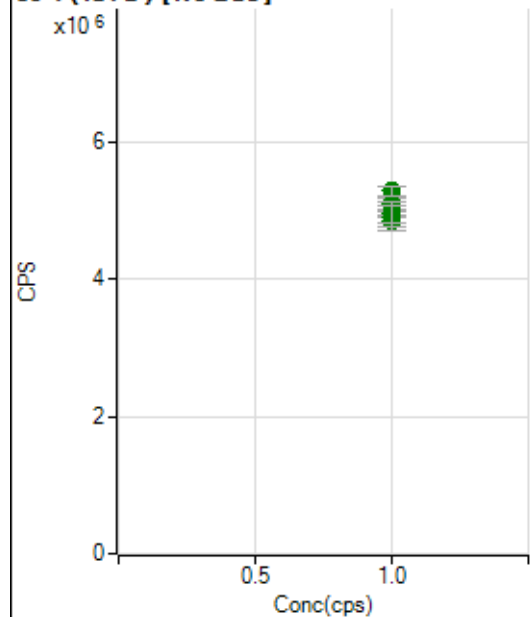
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		971025.92		A	4.7
2	☐	1.000		965191.78		A	1.6
3	☐	1.000		1024042.39		A	1.2
4	☐	1.000		1006809.31		A	1.5
5	☐	1.000		999366.72		A	2.3
6	☐	1.000		1019425.34		A	2.2
7	☐	1.000		974085.09		A	6.6
8	☐	1.000		996822.77		A	2.9
9	☐	1.000		1080974.02		A	1.4

45 Sc (ISTD) [No Gas]

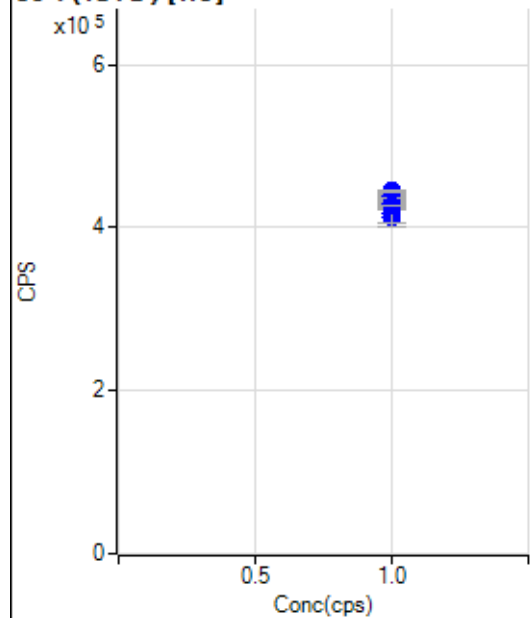
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1885931.45		A	6.2
2	☐	1.000		1951219.38		A	2.4
3	☐	1.000		2033999.73		A	0.8
4	☐	1.000		1997942.37		A	1.9
5	☐	1.000		2020760.28		A	1.2
6	☐	1.000		2030476.69		A	1.2
7	☐	1.000		1952863.50		A	6.7
8	☐	1.000		1976737.07		A	4.7
9	☐	1.000		2088560.68		A	0.5

45 Sc (ISTD) [He]

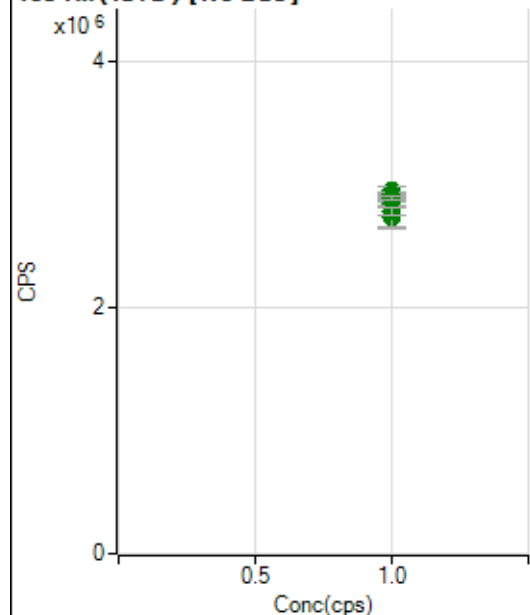
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		57053.90		P	3.2
2	☐	1.000		53798.59		P	3.4
3	☐	1.000		54423.25		P	8.7
4	☐	1.000		56250.78		P	1.2
5	☐	1.000		55845.78		P	0.5
6	☐	1.000		56606.65		P	1.4
7	☐	1.000		56101.35		P	2.6
8	☐	1.000		57830.31		P	0.8
9	☐	1.000		56908.89		P	0.8

89 Y (ISTD) [No Gas]

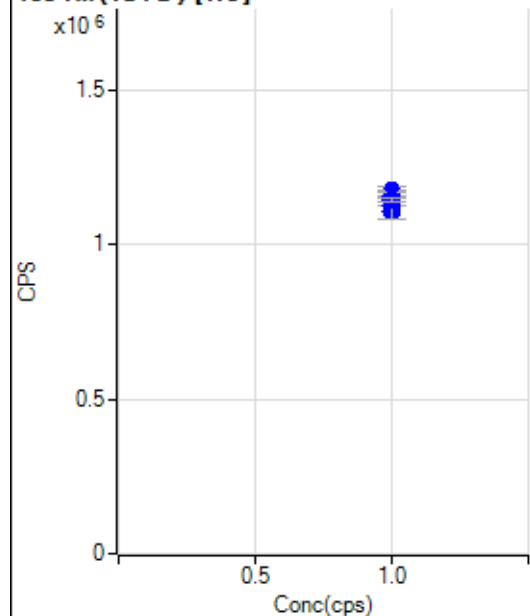
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		4852134.96		A	5.3
2	☐	1.000		4919752.32		A	0.8
3	☐	1.000		5177894.47		A	2.0
4	☐	1.000		5139567.36		A	1.8
5	☐	1.000		5089180.17		A	2.2
6	☐	1.000		5109545.45		A	1.0
7	☐	1.000		4898014.37		A	5.6
8	☐	1.000		4958757.74		A	5.0
9	☐	1.000		5294825.51		A	2.4

89 Y (ISTD) [He]

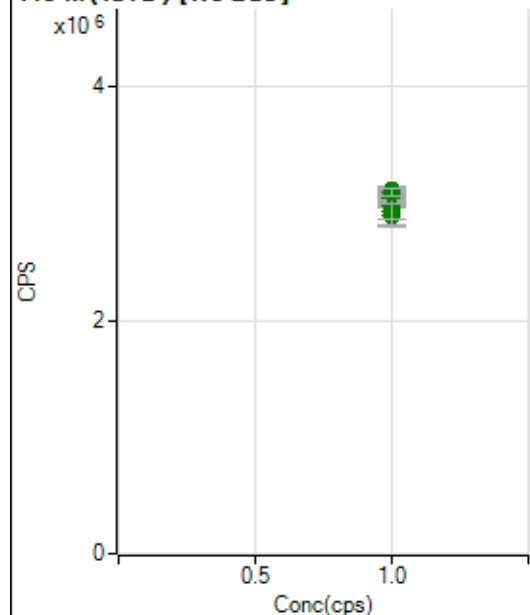
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		438109.69		P	3.2
2	☐	1.000		413820.08		P	3.8
3	☐	1.000		418019.57		P	8.3
4	☐	1.000		426655.03		P	1.4
5	☐	1.000		435531.97		P	0.2
6	☐	1.000		436048.95		P	1.1
7	☐	1.000		430304.04		P	1.2
8	☐	1.000		438201.56		P	1.2
9	☐	1.000		444891.77		P	0.8

103 Rh (ISTD) [No Gas]

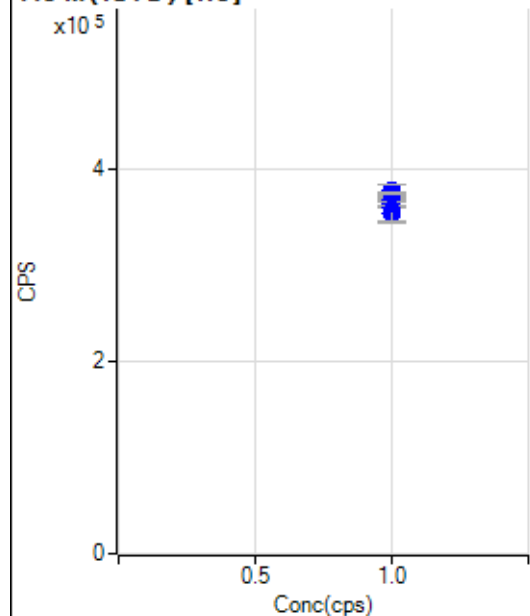
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2741007.61		A	6.1
2	☐	1.000		2834106.92		A	1.4
3	☐	1.000		2944809.59		A	2.1
4	☐	1.000		2916285.50		A	1.6
5	☐	1.000		2882320.33		A	0.9
6	☐	1.000		2886613.59		A	1.5
7	☐	1.000		2734421.74		A	6.7
8	☐	1.000		2771843.90		A	2.3
9	☐	1.000		2888738.13		A	1.0

103 Rh (ISTD) [He]

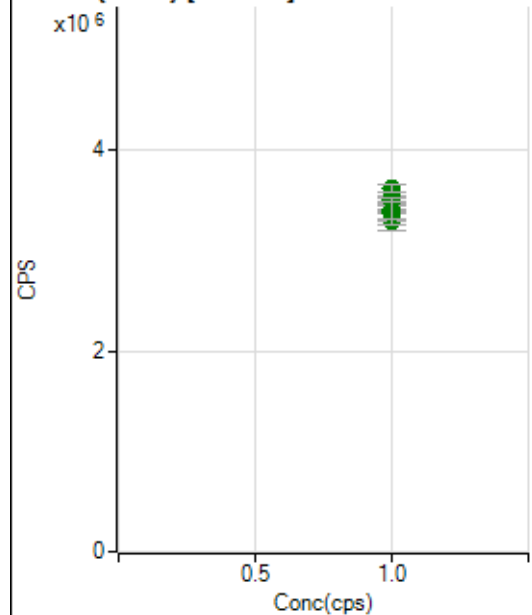
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1172775.21		P	2.7
2	☐	1.000		1103631.47		P	3.9
3	☐	1.000		1122765.43		P	7.8
4	☐	1.000		1153806.25		P	0.8
5	☐	1.000		1171230.10		P	0.2
6	☐	1.000		1166543.97		P	1.4
7	☐	1.000		1147227.64		P	1.5
8	☐	1.000		1159284.81		P	1.3
9	☐	1.000		1143918.81		P	1.0

115 In (ISTD) [No Gas]

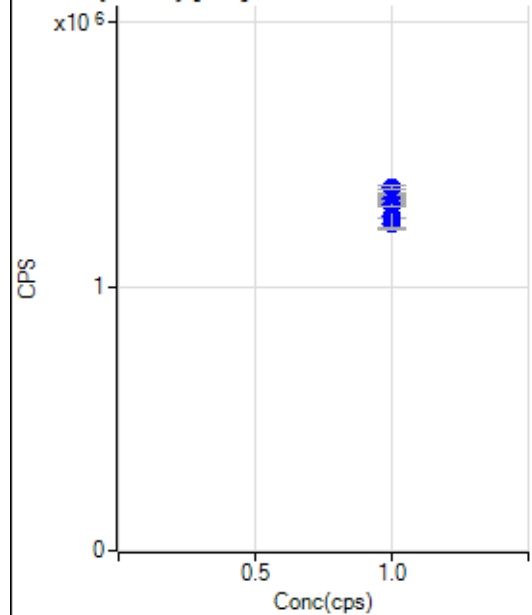
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2895895.54		A	5.9
2	☐	1.000		2991040.50		A	1.7
3	☐	1.000		3110530.68		A	2.2
4	☐	1.000		3082693.89		A	1.8
5	☐	1.000		3052925.97		A	2.8
6	☐	1.000		3090412.98		A	0.8
7	☐	1.000		2929411.53		A	7.0
8	☐	1.000		2932094.84		A	4.6
9	☐	1.000		3101598.23		A	2.0

115 In (ISTD) [He]

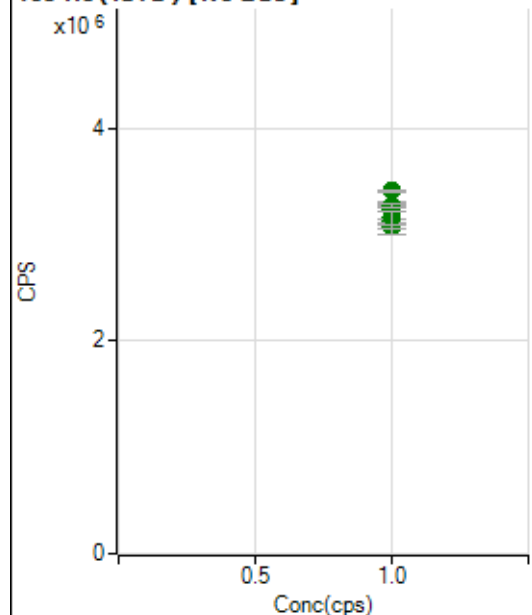
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		378253.39		P	3.5
2	☐	1.000		354302.95		P	4.1
3	☐	1.000		360117.28		P	8.2
4	☐	1.000		368235.86		P	0.7
5	☐	1.000		371856.51		P	0.2
6	☐	1.000		371853.39		P	0.8
7	☐	1.000		365397.00		P	1.6
8	☐	1.000		369834.04		P	1.4
9	☐	1.000		375385.59		P	0.6

159 Tb (ISTD) [No Gas]

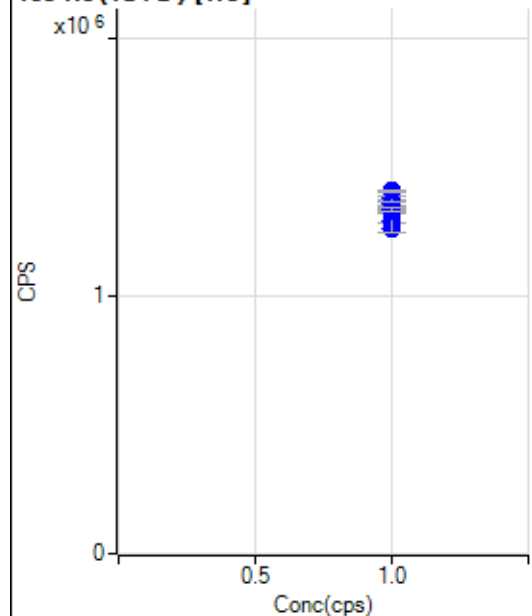
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3288594.50		A	5.9
2	☐	1.000		3299058.91		A	0.4
3	☐	1.000		3517165.19		A	2.0
4	☐	1.000		3437084.22		A	1.5
5	☐	1.000		3410814.64		A	2.0
6	☐	1.000		3501758.73		A	1.3
7	☐	1.000		3375886.27		A	6.8
8	☐	1.000		3396410.61		A	5.0
9	☐	1.000		3612253.91		A	2.0

159 Tb (ISTD) [He]

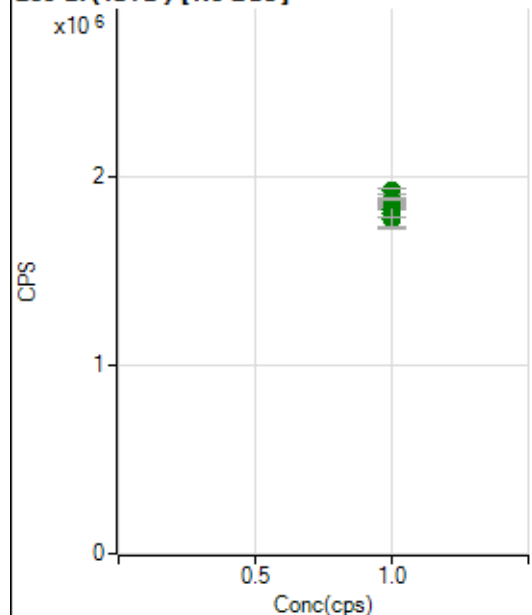
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1322327.61		P	3.3
2	☐	1.000		1241174.81		P	3.4
3	☐	1.000		1263748.37		P	8.1
4	☐	1.000		1312151.51		P	0.7
5	☐	1.000		1324067.26		P	0.9
6	☐	1.000		1330933.89		P	1.4
7	☐	1.000		1313671.06		P	1.3
8	☐	1.000		1348582.36		P	0.6
9	☐	1.000		1373818.70		P	1.0

165 Ho (ISTD) [No Gas]

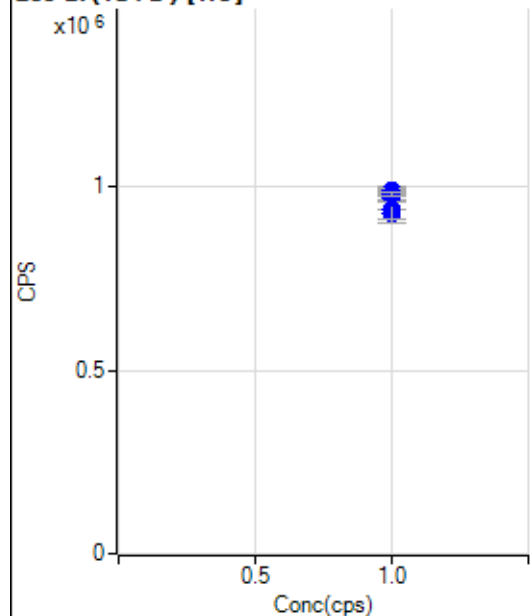
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3080022.83		A	4.9
2	☐	1.000		3133146.36		A	1.5
3	☐	1.000		3282344.93		A	1.6
4	☐	1.000		3246207.84		A	1.7
5	☐	1.000		3260538.72		A	2.3
6	☐	1.000		3278525.36		A	1.2
7	☐	1.000		3171190.33		A	7.6
8	☐	1.000		3161182.10		A	4.0
9	☐	1.000		3413504.15		A	0.3

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1355484.49		P	3.1
2	☐	1.000		1264774.93		P	3.1
3	☐	1.000		1294580.19		P	7.8
4	☐	1.000		1329980.10		P	0.9
5	☐	1.000		1347339.49		P	1.1
6	☐	1.000		1360640.11		P	1.3
7	☐	1.000		1337116.95		P	1.2
8	☐	1.000		1379608.29		P	1.6
9	☐	1.000		1408112.22		P	0.9

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1779278.59		A	6.6
2	☐	1.000		1824728.22		A	0.4
3	☐	1.000		1924152.73		A	1.4
4	☐	1.000		1864566.83		A	1.1
5	☐	1.000		1876987.18		A	2.8
6	☐	1.000		1886798.91		A	1.7
7	☐	1.000		1805126.71		A	8.1
8	☐	1.000		1822985.30		A	4.1
9	☐	1.000		1879123.62		A	0.6

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		987365.02		P	2.5
2	☐	1.000		925147.97		P	3.2
3	☐	1.000		937860.40		P	7.9
4	☐	1.000		968649.47		P	1.2
5	☐	1.000		983375.19		P	1.0
6	☐	1.000		986166.00		P	0.8
7	☐	1.000		966912.22		P	1.2
8	☐	1.000		988704.43		P	1.1
9	☐	1.000		980176.56		P	0.8

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8012921S.b
Acq. Date-Time 2021-01-29 15:11:52
Report Comment ---
Instrument Name G8403A SG19224459

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		2473	24727.58			1.382	5.000
24		39388	393879.26			1.528	5.000
25		5138	51378.08			1.505	5.000
26		5740	57403.89			1.666	5.000
59		5632	56321.86			1.624	5.000
113		2720	27204.74			1.433	5.000
115		9680	96795.09			1.264	5.000
206		3125	31254.85			1.864	5.000
207		2620	26204.63			2.162	5.000
208		6446	64463.69			1.931	5.000
220		1	8.90			25.867	

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

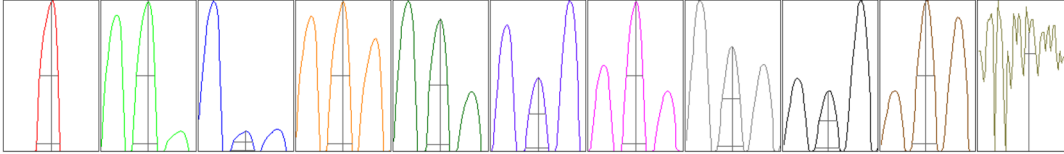
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	2467	2438	2453	2480	2527
24	39260	38649	39254	39459	40317
25	5134	5051	5104	5140	5261
26	5679	5627	5745	5773	5878
59	5572	5544	5584	5714	5747
113	2680	2701	2714	2724	2783
115	9878	9666	9557	9607	9689
206	3084	3082	3096	3146	3219
207	2599	2563	2604	2621	2715
208	6408	6347	6378	6438	6661

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	4558.03	9.05	8.90 - 9.10	
24	71580.40	24.00	23.90 - 24.10	
25	9321.13	25.00	24.90 - 25.10	
26	10410.21	26.00	25.90 - 26.10	
59	10643.16	59.00	58.90 - 59.10	
113	5413.48	113.05	112.90 - 113.10	
115	19383.40	115.05	114.90 - 115.10	
206	5887.07	206.00	205.90 - 206.10	
207	4892.31	206.95	206.90 - 207.10	
208	12231.05	207.95	207.90 - 208.10	
220	0.95	220.15	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.57	0.736	0.900	
24	0.57	0.781	0.900	
25	0.59	0.769	0.900	
26	0.59	0.782	0.900	
59	0.56	0.734	0.900	
113	0.52	0.729	0.900	
115	0.52	0.757	0.900	
206	0.55	0.810	0.900	
207	0.55	0.778	0.900	
208	0.55	0.782	0.900	
220	0.36			

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode HMI Nebulizer Gas 0.52 L/min Dilution Gas 0.46 L/min

US EPA Tune Check Report

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

Lens Parameters

Extract 1	-6.0 V	Omega Lens	10.1 V	Deflect	14.8 V
Extract 2	-210.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-100 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	200 V		

QP Parameters

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

Hardware Settings

Torch

Torch H	0.4 mm	Torch V	-0.3 mm
---------	--------	---------	---------

EM

Discriminator	4.0 mV	Analog HV	2190 V	Pulse HV	1356 V
---------------	--------	-----------	--------	----------	--------

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		1088	10884.56			2.853	
89		5491	54911.28			3.521	
205		2386	23855.36			3.760	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	1114	1108	1100	1037	1083
89	5693	5545	5567	5175	5476
205	2485	2415	2426	2248	2353

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	HMI	Nebulizer Gas	0.52 L/min	Dilution Gas	0.46 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	10.1 V	Deflect	5.8 V
-----------	--------	------------	--------	---------	-------

US EPA Tune Check Report

Extract 2	-210.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-100 V	Cell Exit	-70 V		
Cell Parameters					
Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	4.5 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		
QP Parameters					
Mass Gain	121	Axis Gain	0.9991	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.02		
Hardware Settings					
Torch					
Torch H	0.4 mm	Torch V	-0.3 mm		
EM					
Discriminator	4.0 mV	Analog HV	2190 V	Pulse HV	1356 V