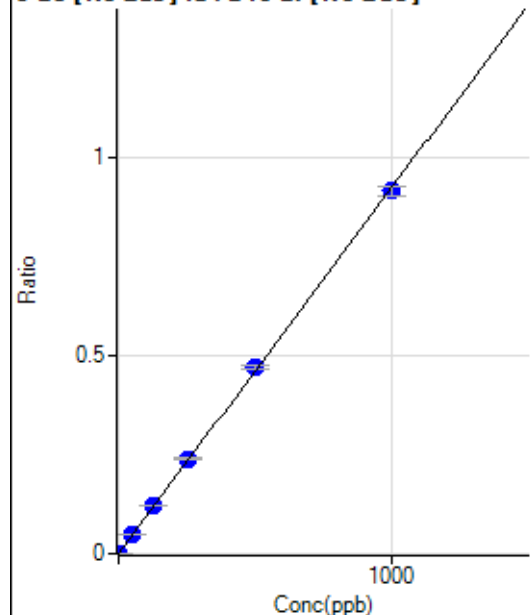


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8051220 MS.b\
Analysis File: P8051220 MS.batch.bin
DA Date-Time: 2020-05-12 23:31:17
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2020-05-12 14:32:29
2	004CALS.d	S01	2020-05-12 14:35:39
3	005CALS.d	S02	2020-05-12 14:38:46
4	006CALS.d	S03	2020-05-12 14:41:57
5	007CALS.d	S04	2020-05-12 14:45:03
6	008CALS.d	S05	2020-05-12 14:48:08
7	009CALS.d	S06	2020-05-12 14:51:07
8	010CALS.d	S07	2020-05-12 14:54:07
9	011CALS.d	S08	2020-05-12 14:57:06

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	63.99	0.0001	P	17.5
2	☐	0.100	0.089	139.31	0.0002	P	15.1
3	☐	1.000	0.986	883.86	0.0010	P	5.5
4	☐	50.000	52.156	45511.97	0.0483	P	2.5
5	☐	125.000	130.539	113788.48	0.1207	P	0.9
6	☐	250.000	259.402	225596.20	0.2397	P	3.0
7	☐	500.000	509.968	449163.94	0.4712	P	1.4
8	☐	1000.000	991.865	885468.71	0.9164	P	2.5
9	☐			419.26	0.0004	P	11.6

$$y = 9.2381\text{E-}004 * x + 7.0464\text{E-}005$$

$$R = 0.9999$$

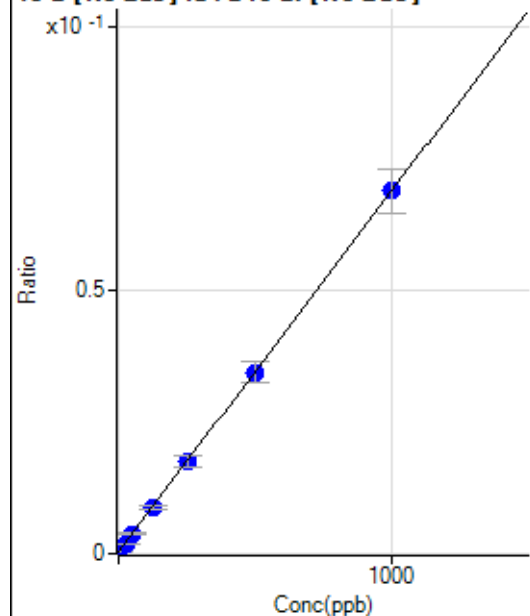
$$DL = 0.04014$$

$$BEC = 0.07628$$

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	329.27	0.0004	P	2.7
2	☐	2.500	1.651	433.92	0.0005	P	3.6
3	☐	25.000	21.388	1643.77	0.0018	P	8.7
4	☐	50.000	49.970	3563.74	0.0038	P	7.3
5	☐	125.000	125.215	8412.77	0.0089	P	8.1
6	☐	250.000	250.589	16423.94	0.0175	P	12.1
7	☐	500.000	497.696	32734.60	0.0344	P	11.3
8	☐	1000.000	1001.072	66329.85	0.0687	P	11.9
9	☐			11717.72	0.0126	P	11.3

$$y = 6.8305\text{E-}005 * x + 3.6324\text{E-}004$$

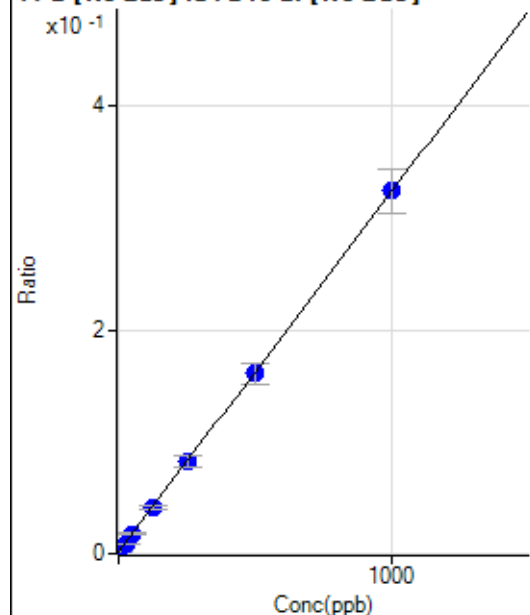
$$R = 1.0000$$

$$DL = 0.4277$$

$$BEC = 5.318$$

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	1509.12	0.0017	P	3.4
2	☐	2.500	1.564	1977.75	0.0022	P	5.8
3	☐	25.000	21.191	7649.83	0.0085	P	7.4
4	☐	50.000	50.110	16795.60	0.0178	P	8.0
5	☐	125.000	124.231	39312.65	0.0417	P	9.5
6	☐	250.000	249.845	77137.02	0.0821	P	13.5
7	☐	500.000	495.647	153638.84	0.1613	P	11.5
8	☐	1000.000	1002.403	313052.00	0.3244	P	11.9
9	☐			54811.87	0.0588	P	12.6

$$y = 3.2200\text{E-}004 * x + 0.0017$$

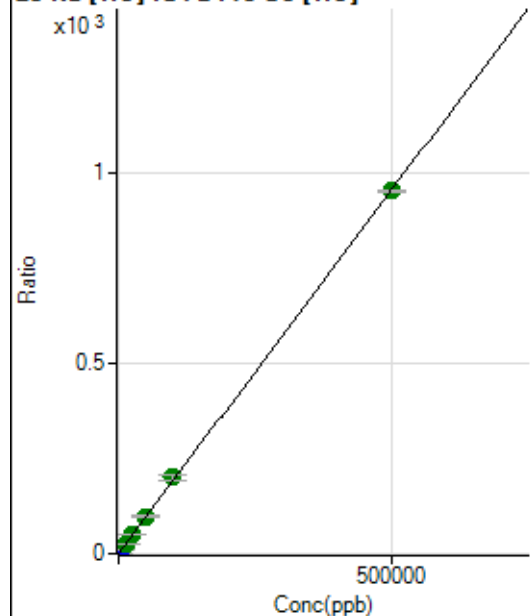
$$R = 1.0000$$

$$DL = 0.5227$$

$$BEC = 5.173$$

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	24373.63	0.4661	P	0.6
2	☐	50.000	57.277	29828.19	0.5752	P	7.3
3	☐	500.000	523.235	76031.47	1.4625	P	3.8
4	☐	5000.000	5509.814	596613.24	10.9585	P	2.7
5	☐	12500.000	13149.261	1416822.31	25.5063	A	1.7
6	☐	25000.000	26060.656	2803566.71	50.0934	A	1.4
7	☐	50000.000	50838.812	5494806.46	97.2784	A	4.5
8	☐	100000.00	104571.89	10798453.37	199.6022	A	5.9
9	☐	500000.00	498927.35	51721685.88	950.5727	A	0.8

$$y = 0.0019 * x + 0.4661$$

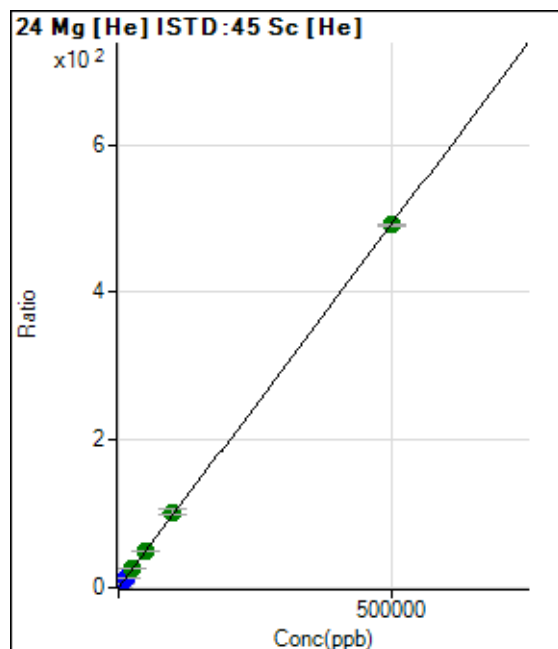
$$R = 1.0000$$

$$DL = 4.146$$

$$BEC = 244.8$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	252.79	0.0048	P	18.1
2	☐	50.000	51.730	2897.58	0.0557	P	3.0
3	☐	500.000	524.672	27108.97	0.5212	P	3.0
4	☐	5000.000	5467.302	293175.37	5.3855	P	3.3
5	☐	12500.000	13320.629	728575.14	13.1145	P	0.5
6	☐	25000.000	26232.138	1445057.65	25.8215	A	2.0
7	☐	50000.000	50347.465	2798969.42	49.5549	A	4.5
8	☐	100000.00	104079.31	5540331.24	102.4357	A	6.6
9	☐	500000.00	499062.57	26724938.44	491.1630	A	0.6

$$y = 9.8416\text{E-}004 * x + 0.0048$$

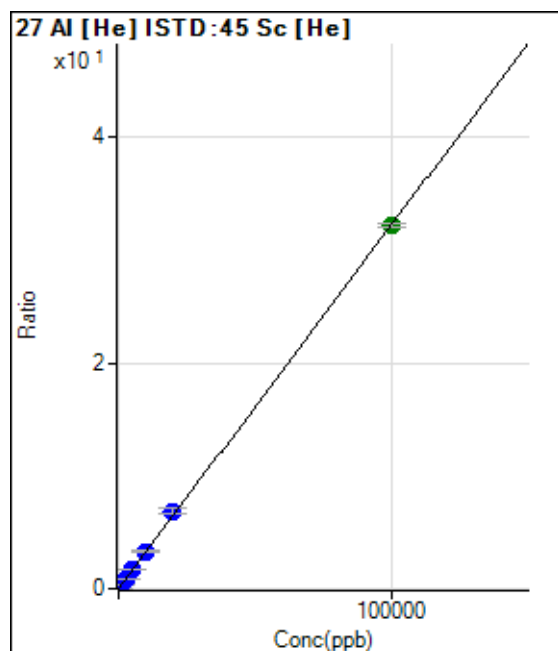
$$R = 1.0000$$

$$DL = 2.673$$

$$BEC = 4.912$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	270.62	0.0052	P	6.0
2	☐	2.000	1.418	292.61	0.0056	P	6.6
3	☐	20.000	22.388	644.56	0.0124	P	8.2
4	☐	1000.000	1087.405	19362.33	0.3558	P	4.1
5	☐	2500.000	2627.546	47342.31	0.8523	P	1.8
6	☐	5000.000	5240.442	94843.36	1.6947	P	1.6
7	☐	10000.000	10260.369	187167.62	3.3131	P	3.6
8	☐	20000.000	21217.447	370249.59	6.8456	P	6.7
9	☐	100000.00	99714.388	1749406.62	32.1528	A	1.1

$$y = 3.2240\text{E-}004 * x + 0.0052$$

$$R = 0.9999$$

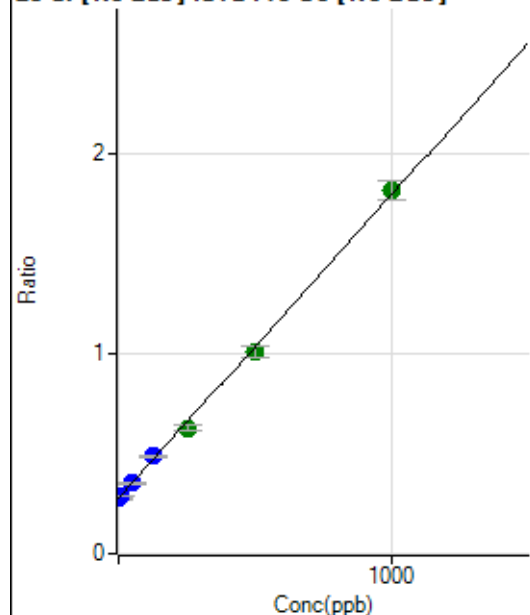
$$DL = 2.882$$

$$BEC = 16.05$$

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	498765.72	0.2789	P	2.4
2	☐	1.000	-2.260	498695.52	0.2755	P	0.8
3	☐	10.000	8.518	521006.69	0.2919	P	1.1
4	☐	50.000	48.817	659341.22	0.3532	P	3.0
5	☐	125.000	138.565	926567.75	0.4896	P	2.5
6	☐	250.000	230.092	1173688.87	0.6288	A	4.8
7	☐	500.000	482.471	1884130.60	1.0127	A	5.0
8	☐	1000.000	1012.123	3443406.61	1.8182	A	5.2
9	☐			794842.48	0.4236	P	2.7

$$y = 0.0015 * x + 0.2789$$

$$R = 0.9994$$

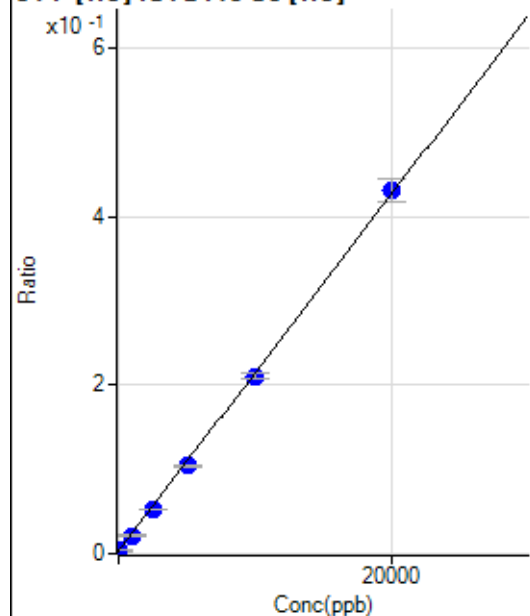
$$DL = 13.09$$

$$BEC = 183.4$$

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	-4.717	158.34	0.0030	P	19.0
2	☐	0.000	-21.951	138.90	0.0027	P	8.4
3	☐	0.000	26.668	191.67	0.0037	P	11.5
4	☐	1000.000	871.975	1175.08	0.0216	P	14.8
5	☐	2500.000	2296.961	2880.92	0.0519	P	0.8
6	☐	5000.000	4779.290	5848.55	0.1045	P	3.4
7	☐	10000.000	9816.105	11944.10	0.2114	P	2.4
8	☐	20000.000	20178.906	23324.72	0.4312	P	6.2
9	☐			147.23	0.0027	P	29.6

$$y = 2.1214E-005 * x + 0.0031$$

$$R = 0.9998$$

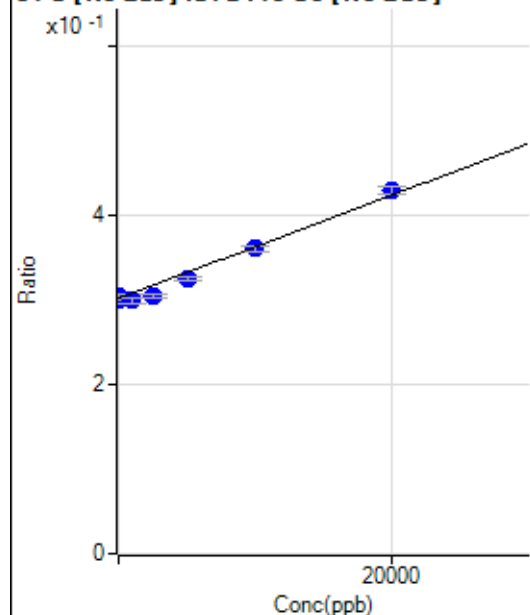
$$DL = 57.72$$

$$BEC = 147.5$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	-158.765	538604.07	0.3012	P	2.3
2	☐	0.000	-204.397	544735.21	0.3009	P	0.4
3	☐	0.000	363.162	543273.57	0.3044	P	2.2
4	☐	1000.000	-446.974	559101.53	0.2994	P	2.1
5	☐	2500.000	368.740	575983.31	0.3044	P	1.3
6	☐	5000.000	3846.639	607912.20	0.3256	P	1.3
7	☐	10000.000	9614.109	671420.72	0.3608	P	1.8
8	☐	20000.000	20820.042	812905.88	0.4291	P	2.1
9	☐			521537.00	0.2780	P	0.2

$$y = 6.0969\text{E-}006 * x + 0.3022$$

$$R = 0.9931$$

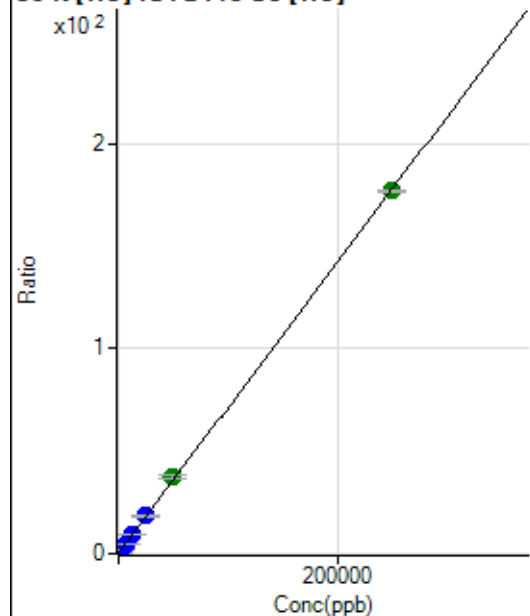
$$DL = 2477$$

$$BEC = 4.956\text{E}+04$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	15172.23	0.2902	P	3.4
2	☒	50.000					
3	☐	500.000	534.907	34800.91	0.6694	P	3.9
4	☐	2500.000	2741.308	121592.93	2.2337	P	3.3
5	☐	6250.000	6612.892	276560.06	4.9785	P	1.1
6	☐	12500.000	13215.034	540618.74	9.6592	P	1.0
7	☐	25000.000	25727.413	1046830.74	18.5301	P	3.6
8	☐	50000.000	52285.428	2021391.23	37.3588	A	5.5
9	☐	250000.00	249422.86	9637459.85	177.1229	A	0.4

$$y = 7.0897\text{E-}004 * x + 0.2902$$

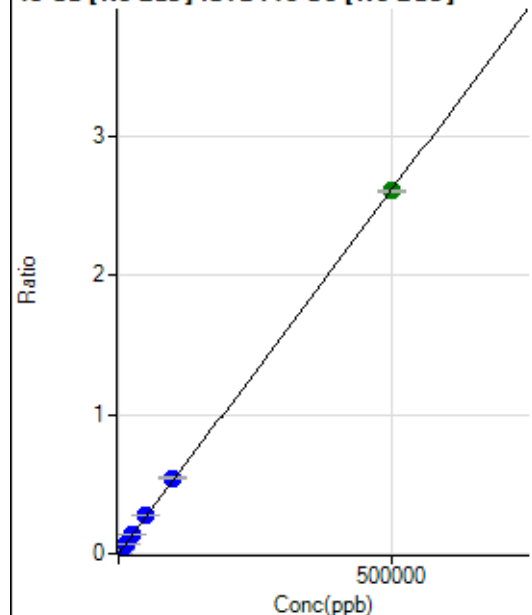
$$R = 1.0000$$

$$DL = 41.78$$

$$BEC = 409.3$$

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	433.35	0.0002	P	11.7
2	☐	50.000	54.386	952.84	0.0005	P	7.3
3	☐	500.000	486.149	4959.32	0.0028	P	2.1
4	☐	5000.000	5308.735	52153.21	0.0279	P	2.0
5	☐	12500.000	13100.851	129743.44	0.0686	P	1.6
6	☐	25000.000	26475.228	258265.64	0.1383	P	1.0
7	☐	50000.000	52767.742	512585.80	0.2755	P	2.6
8	☐	100000.00	103485.02	1022906.44	0.5400	P	2.5
9	☐	500000.00	498934.36	4882377.71	2.6025	A	0.8

$$y = 5.2156\text{E-}006 * x + 2.4265\text{E-}004$$

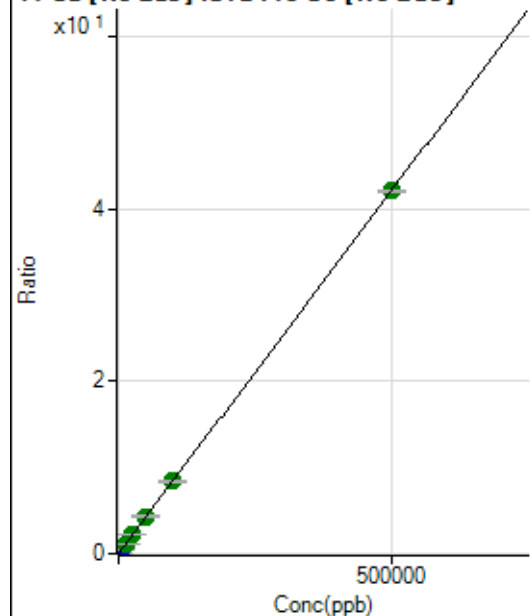
$$R = 1.0000$$

$$DL = 16.35$$

$$BEC = 46.52$$

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	24769.01	0.0139	P	3.8
2	☐	50.000	47.731	32351.02	0.0179	P	1.5
3	☐	500.000	511.453	101577.01	0.0569	P	0.4
4	☐	5000.000	5359.519	868113.86	0.4649	P	2.0
5	☐	12500.000	13082.774	2109657.17	1.1149	A	1.2
6	☐	25000.000	25910.961	4097019.45	2.1946	A	2.0
7	☐	50000.000	51257.725	8053963.90	4.3278	A	2.2
8	☐	100000.00	100078.38	15981587.51	8.4366	A	2.7
9	☐	500000.00	499794.82	78941524.68	42.0776	A	0.5

$$y = 8.4162\text{E-}005 * x + 0.0139$$

$$R = 1.0000$$

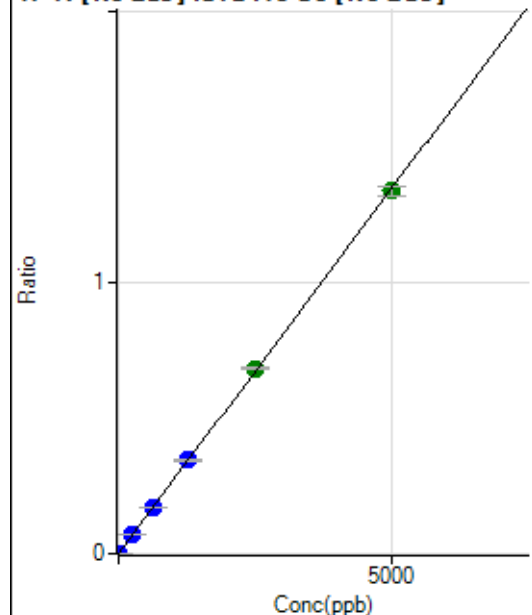
$$DL = 18.69$$

$$BEC = 164.6$$

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	552.80	0.0003	P	0.2
2	☐	0.500	0.426	766.70	0.0004	P	9.9
3	☐	5.000	5.215	3058.75	0.0017	P	3.1
4	☐	250.000	259.599	131092.25	0.0702	P	2.0
5	☐	625.000	635.299	324260.68	0.1714	P	1.2
6	☐	1250.000	1277.150	642569.61	0.3442	P	1.9
7	☐	2500.000	2540.074	1273416.76	0.6842	A	1.8
8	☐	5000.000	4971.408	2536370.52	1.3389	A	3.0
9	☐			1302.87	0.0007	P	10.9

$$y = 2.6925E-004 * x + 3.0902E-004$$

$$R = 0.9999$$

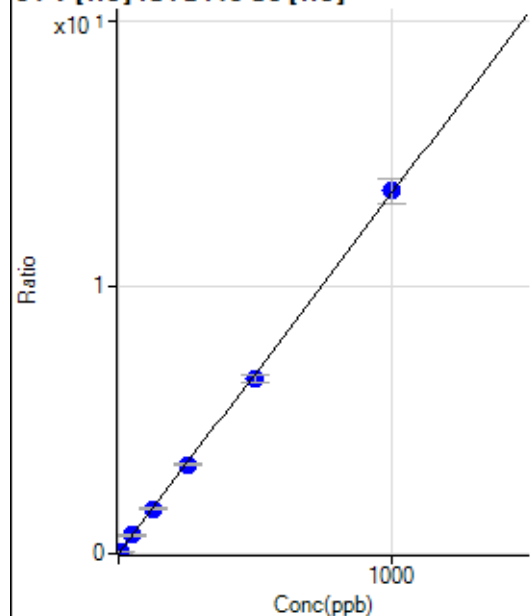
$$DL = 0.007661$$

$$BEC = 1.148$$

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	10.00	0.0002	P	88.1
2	☐	0.500	0.554	397.79	0.0077	P	8.4
3	☐	5.000	5.283	3722.74	0.0716	P	3.2
4	☐	50.000	51.283	37745.25	0.6934	P	3.1
5	☐	125.000	124.967	93843.76	1.6893	P	1.2
6	☐	250.000	248.015	187640.11	3.3526	P	0.9
7	☐	500.000	485.440	370635.64	6.5618	P	4.3
8	☐	1000.000	1007.715	736750.14	13.6213	P	6.6
9	☐			217.78	0.0040	P	5.9

$$y = 0.0135 * x + 1.9118E-004$$

$$R = 0.9998$$

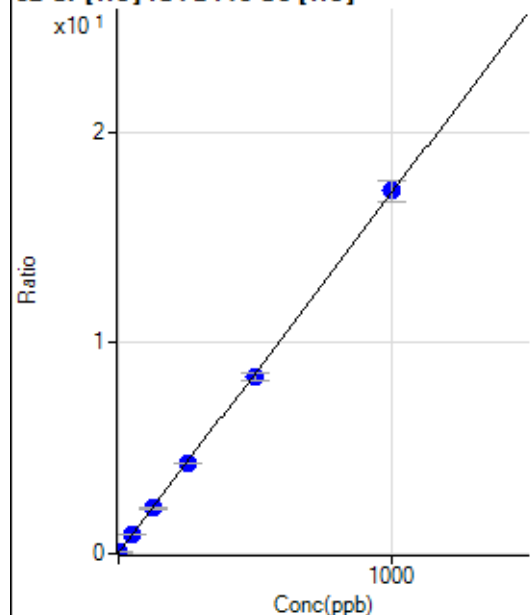
$$DL = 0.0374$$

$$BEC = 0.01414$$

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	1101.16	0.0211	P	3.9
2	☐	0.200	0.207	1274.52	0.0246	P	10.3
3	☐	2.000	1.995	2865.87	0.0551	P	5.2
4	☐	50.000	51.341	48896.55	0.8980	P	1.9
5	☐	125.000	124.980	119749.25	2.1559	P	2.4
6	☐	250.000	249.782	239971.54	4.2877	P	1.3
7	☐	500.000	489.048	473029.67	8.3747	P	4.4
8	☐	1000.000	1005.466	930204.87	17.1959	P	6.1
9	☐			15496.28	0.2848	P	1.6

$$y = 0.0171 * x + 0.0211$$

$$R = 0.9999$$

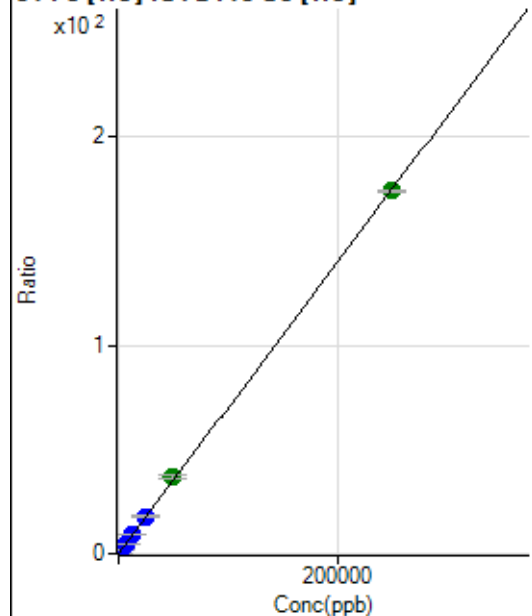
$$DL = 0.1438$$

$$BEC = 1.233$$

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	298.15	0.0057	P	13.2
2	☐	5.000	7.999	583.36	0.0113	P	16.6
3	☐	50.000	56.436	2342.83	0.0451	P	8.8
4	☐	2500.000	2692.661	102615.51	1.8849	P	2.7
5	☐	6250.000	6573.355	255151.14	4.5933	P	1.7
6	☐	12500.000	13054.946	510232.32	9.1169	P	1.6
7	☐	25000.000	25432.003	1003098.32	17.7550	P	3.4
8	☐	50000.000	52779.505	1992204.40	36.8411	A	7.1
9	☐	250000.00	249363.13	9469687.60	174.0391	A	0.3

$$y = 6.9791E-004 * x + 0.0057$$

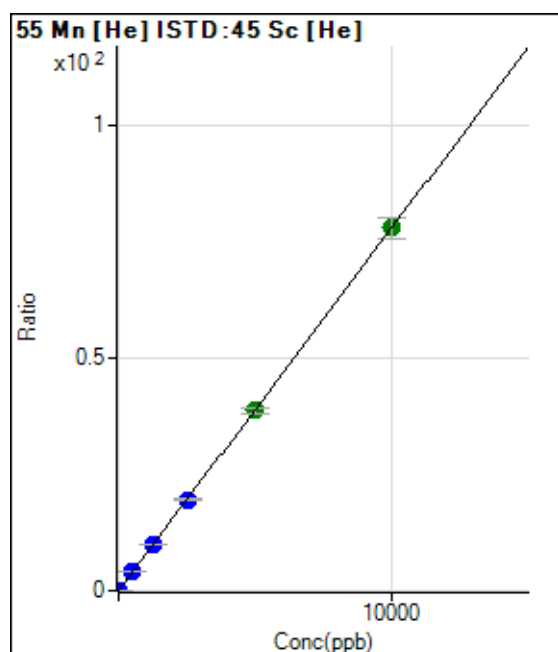
$$R = 0.9999$$

$$DL = 3.228$$

$$BEC = 8.17$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	77.78	0.0015	P	6.5
2	☐	0.100	0.104	118.89	0.0023	P	14.7
3	☐	1.000	1.094	520.02	0.0100	P	7.3
4	☐	500.000	518.994	219974.07	4.0406	P	2.6
5	☐	1250.000	1257.623	543782.61	9.7890	P	1.2
6	☐	2500.000	2513.136	1094719.71	19.5601	P	1.3
7	☐	5000.000	4966.992	2183837.18	38.6574	A	3.8
8	☐	10000.000	10011.317	4215717.78	77.9152	A	5.6
9	☐			3581.59	0.0658	P	3.2

$$y = 0.0078 * x + 0.0015$$

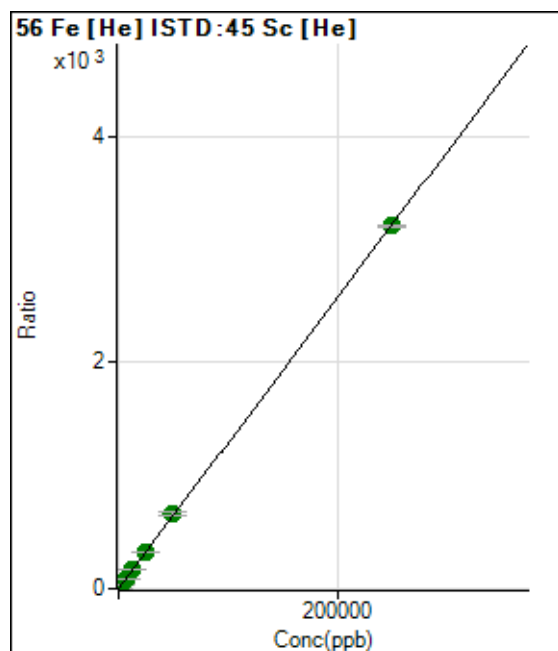
$$R = 1.0000$$

$$DL = 0.03717$$

$$BEC = 0.1911$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	2366.91	0.0453	P	5.8
2	☐	5.000	5.184	5801.27	0.1118	P	6.2
3	☐	50.000	53.652	38169.74	0.7344	P	4.6
4	☐	2500.000	2665.275	1866332.36	34.2792	A	2.3
5	☐	6250.000	6455.357	4608572.38	82.9606	A	1.0
6	☐	12500.000	12674.292	9113975.09	162.8393	A	1.3
7	☐	25000.000	24998.455	18142930.96	321.1360	A	3.5
8	☐	50000.000	51527.202	35811819.32	661.8825	A	5.6
9	☐	250000.00	249679.21	174495874.2	3,207.031	A	0.6

$$y = 0.0128 * x + 0.0453$$

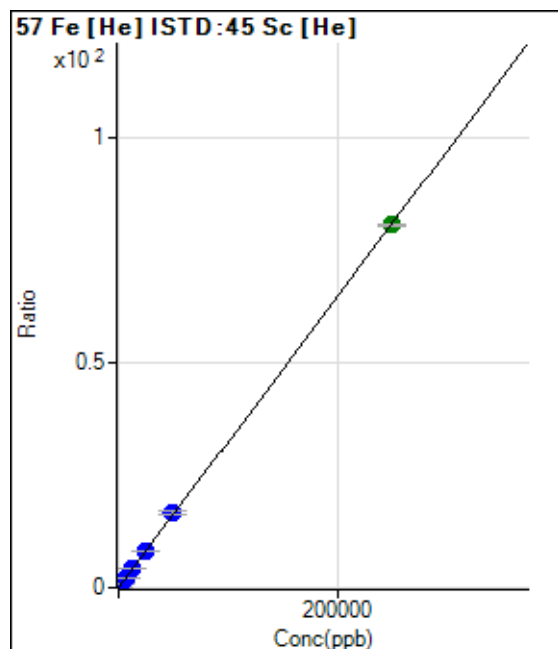
$$R = 1.0000$$

$$DL = 0.6133$$

$$BEC = 3.524$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	81.49	0.0016	P	55.0
2	☒	5.000					
3	☐	50.000	52.300	957.46	0.0185	P	14.6
4	☐	2500.000	2626.004	46278.79	0.8500	P	2.7
5	☐	6250.000	6481.851	116433.85	2.0959	P	0.7
6	☐	12500.000	12763.475	230918.47	4.1255	P	0.8
7	☐	25000.000	25041.988	457165.82	8.0927	P	3.8
8	☐	50000.000	51401.868	898551.83	16.6096	P	6.0
9	☐	250000.00	249695.19	4389787.45	80.6787	A	0.4

$$y = 3.2310\text{E-}004 * x + 0.0016$$

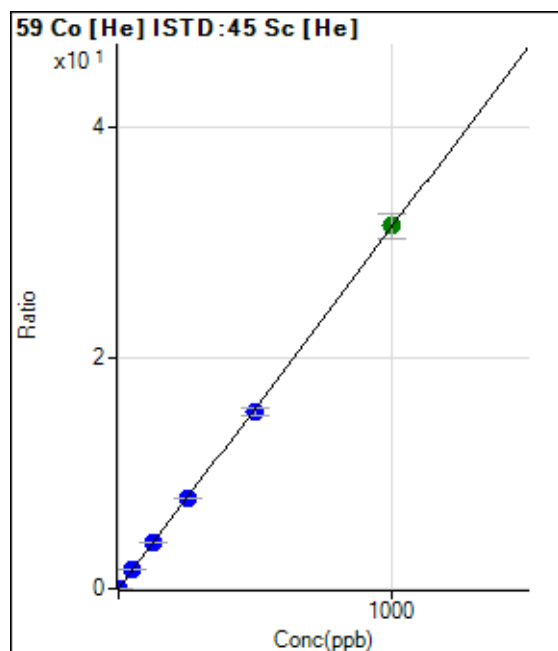
$$R = 1.0000$$

$$DL = 7.962$$

$$BEC = 4.822$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	65.55	0.0013	P	38.9
2	☐	0.100	0.088	207.78	0.0040	P	17.5
3	☐	1.000	0.988	1673.45	0.0322	P	2.4
4	☐	50.000	51.609	87969.29	1.6158	P	2.9
5	☐	125.000	126.085	219198.92	3.9457	P	0.4
6	☐	250.000	250.676	438999.42	7.8434	P	0.6
7	☐	500.000	489.288	864815.43	15.3081	P	3.6
8	☐	1000.000	1004.971	1700443.08	31.4407	A	6.7
9	☐			2832.53	0.0521	P	3.1

$$y = 0.0313 * x + 0.0013$$

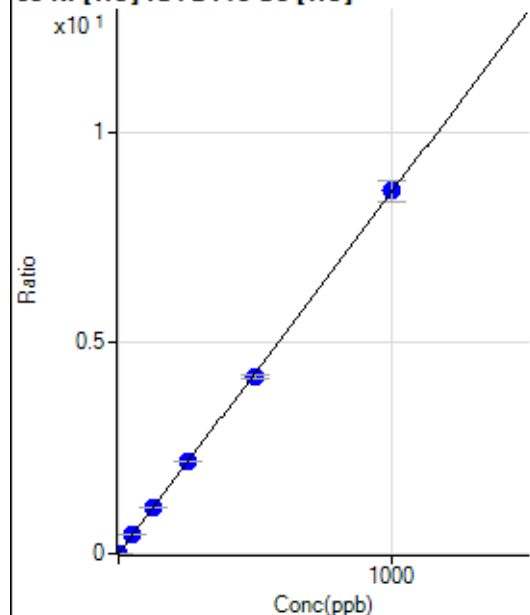
$$R = 0.9999$$

$$DL = 0.04674$$

$$BEC = 0.04008$$

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	75.56	0.0014	P	2.5
2	☐	0.100	0.118	126.67	0.0025	P	19.6
3	☐	1.000	1.178	600.02	0.0115	P	2.3
4	☐	50.000	52.139	24410.97	0.4483	P	1.5
5	☐	125.000	127.510	60789.21	1.0943	P	0.8
6	☐	250.000	253.992	121926.93	2.1783	P	0.4
7	☐	500.000	489.697	237217.08	4.1984	P	3.0
8	☐	1000.000	1003.733	465482.54	8.6040	P	5.8
9	☐			5037.61	0.0926	P	0.6

$$y = 0.0086 * x + 0.0014$$

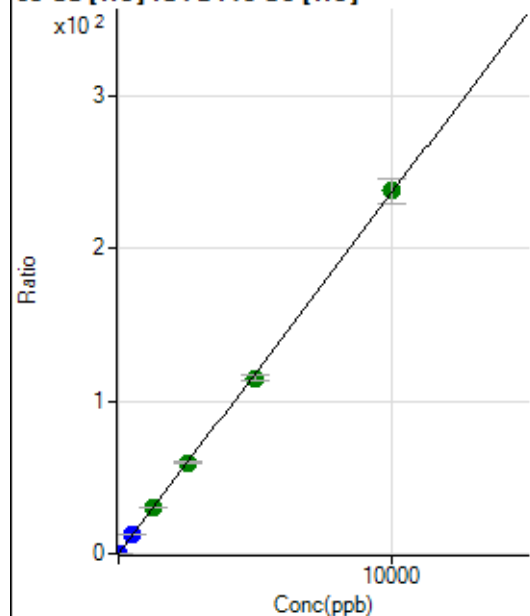
$$R = 0.9999$$

$$DL = 0.01278$$

$$BEC = 0.1686$$

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	544.46	0.0104	P	6.4
2	☐	0.200	0.269	871.15	0.0168	P	4.7
3	☐	2.000	2.064	3079.26	0.0592	P	3.8
4	☐	500.000	534.515	688880.77	12.6531	P	2.4
5	☐	1250.000	1284.077	1687832.65	30.3822	A	0.5
6	☐	2500.000	2524.803	3342665.33	59.7286	A	2.3
7	☐	5000.000	4867.236	6505598.31	115.1333	A	2.7
8	☐	10000.000	10054.196	12861426.89	237.8186	A	6.9
9	☐			6674.97	0.1227	P	4.8

$$y = 0.0237 * x + 0.0104$$

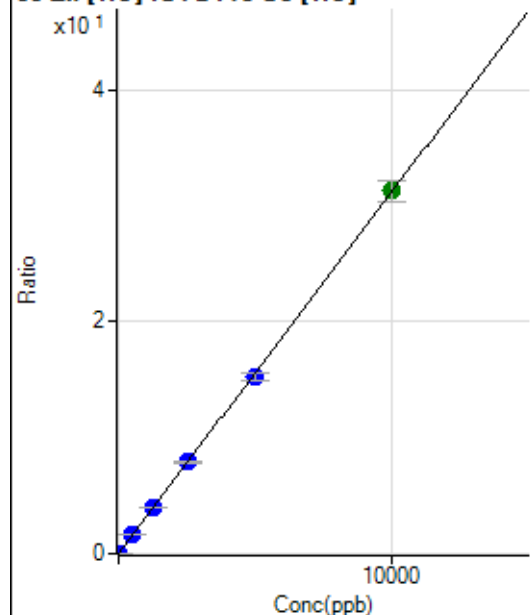
$$R = 0.9999$$

$$DL = 0.08471$$

$$BEC = 0.4402$$

Weight: <None>

Min Conc: 0

⁶⁶Zn [He] ISTD:45 Sc [He]

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	De _t	RSD
1	☐	0.000	0.000	115.36	0.0022	P	27.8
2	☒	0.200					
3	☐	2.000	2.138	460.99	0.0089	P	15.2
4	☐	500.000	526.542	89515.21	1.6442	P	2.6
5	☐	1250.000	1273.485	220748.88	3.9736	P	0.6
6	☐	2500.000	2533.541	442329.05	7.9032	P	1.0
7	☐	5000.000	4902.483	863767.03	15.2908	P	3.9
8	☐	10000.000	10036.111	1693391.10	31.3002	A	5.8
9	☐			4747.54	0.0873	P	2.1

$$y = 0.0031 * x + 0.0022$$

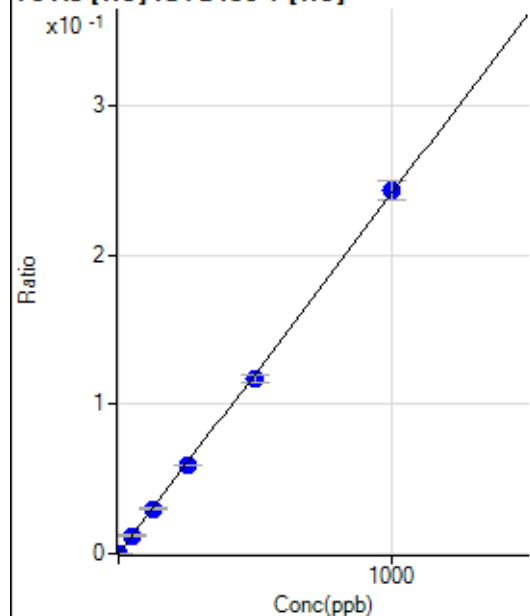
$$R = 0.9999$$

$$DL = 0.5908$$

$$BEC = 0.7074$$

Weight: <None>

Min Conc: 0

⁷⁵As [He] ISTD:89 Y [He]

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	De _t	RSD
1	☐	0.000	0.000	8.33	0.0000	P	48.5
2	☐	0.100	0.105	20.33	0.0000	P	12.7
3	☐	1.000	1.041	132.01	0.0003	P	4.9
4	☐	50.000	50.539	6244.35	0.0122	P	1.7
5	☐	125.000	125.459	15743.66	0.0303	P	1.5
6	☐	250.000	246.730	31214.08	0.0595	P	0.3
7	☐	500.000	485.547	61778.76	0.1170	P	4.1
8	☐	1000.000	1007.959	122599.40	0.2429	P	5.4
9	☐			74.68	0.0001	P	11.1

$$y = 2.4101E-004 * x + 1.6885E-005$$

$$R = 0.9998$$

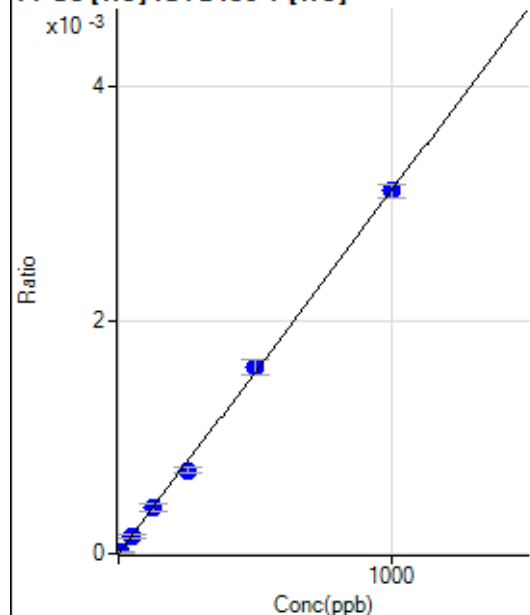
$$DL = 0.1019$$

$$BEC = 0.07006$$

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	0.00	0.0000	P	
2	☐	0.500	1.443	2.22	0.0000	P	173.2
3	☐	5.000	4.365	6.67	0.0000	P	86.7
4	☐	50.000	47.469	75.56	0.0001	P	19.2
5	☐	125.000	127.069	205.56	0.0004	P	13.7
6	☐	250.000	229.899	375.56	0.0007	P	8.0
7	☐	500.000	511.753	840.03	0.0016	P	8.2
8	☐	1000.000	999.019	1571.22	0.0031	P	3.9
9	☐			3.33	0.0000	P	0.4

$$y = 3.1130\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9997$$

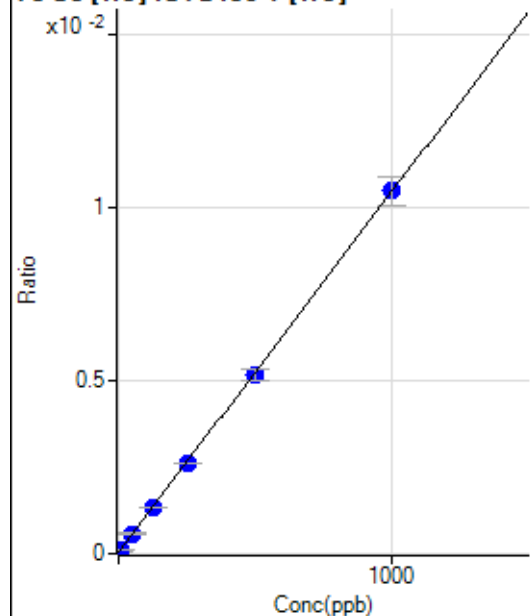
$$DL = 0$$

$$BEC = 0$$

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	20.67	0.0000	P	35.6
2	☐	0.500	2.554	33.00	0.0001	P	16.5
3	☐	5.000	6.481	54.01	0.0001	P	6.7
4	☐	50.000	52.028	299.03	0.0006	P	5.2
5	☐	125.000	125.005	700.09	0.0013	P	1.6
6	☐	250.000	248.679	1382.21	0.0026	P	0.2
7	☐	500.000	494.023	2738.88	0.0052	P	6.0
8	☐	1000.000	1003.208	5293.53	0.0105	P	8.1
9	☐			29.67	0.0001	P	4.8

$$y = 1.0423\text{E-}005 * x + 4.1931\text{E-}005$$

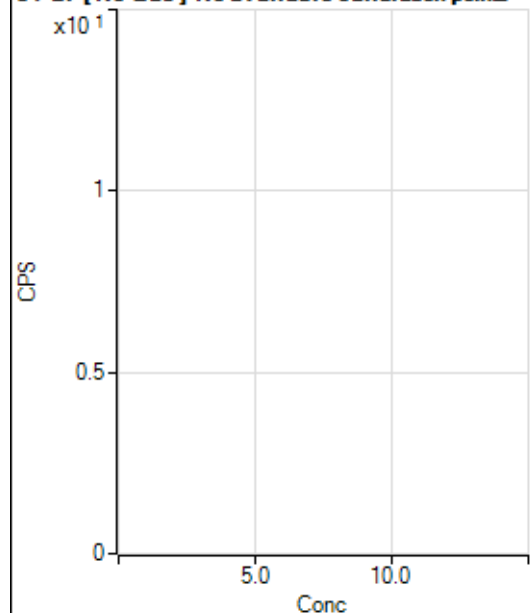
$$R = 1.0000$$

$$DL = 4.295$$

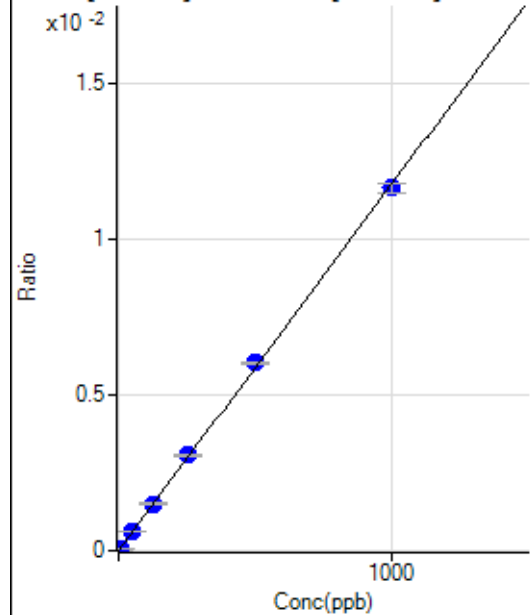
$$BEC = 4.023$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			2309.25		P	13.2
2	☐			2159.06		P	1.0
3	☐			2342.61		P	2.7
4	☐			2109.00		P	6.5
5	☐			2292.56		P	10.9
6	☐			2165.73		P	6.9
7	☐			2012.23		P	7.2
8	☐			2365.98		P	2.7
9	☐			2135.71		P	8.7

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1.02	0.0000	P	3025.
2	☒	0.500					
3	☐	5.000	4.489	225.97	0.0001	P	24.7
4	☐	50.000	52.642	2816.06	0.0006	P	2.1
5	☐	125.000	128.282	6940.63	0.0015	P	0.5
6	☐	250.000	260.029	13796.39	0.0031	P	3.8
7	☐	500.000	513.054	27502.76	0.0060	P	1.2
8	☐	1000.000	990.426	54859.26	0.0117	P	2.5
9	☐			39.47	0.0000	P	101.5

$$y = 1.1770E-005 * x + 2.1539E-007$$

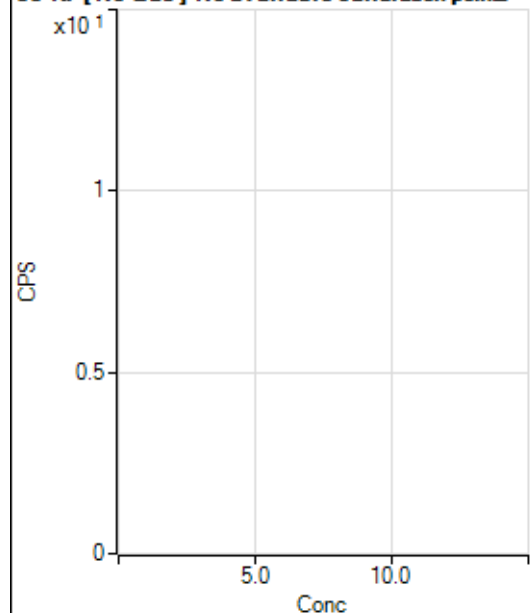
$$R = 0.9998$$

$$DL = 1.661$$

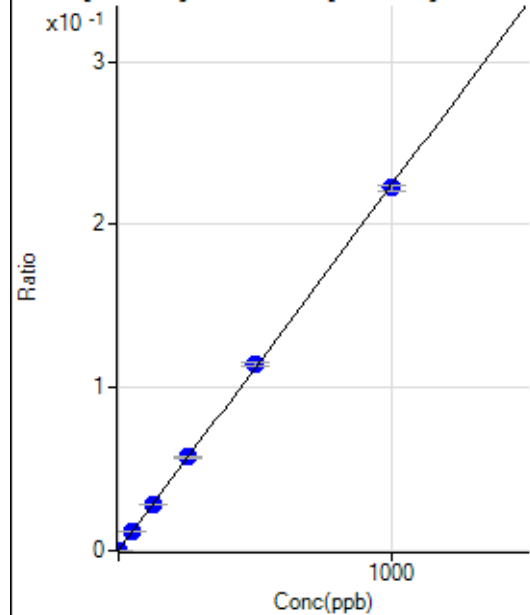
$$BEC = 0.0183$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			483.35		P	7.5
2	☐			493.35		P	6.5
3	☐			507.79		P	4.5
4	☐			474.46		P	4.7
5	☐			525.57		P	8.7
6	☐			465.57		P	8.1
7	☐			501.13		P	5.8
8	☐			533.35		P	2.3
9	☐			470.01		P	9.3

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	719.49	0.0002	P	13.6
2	☐	0.100	0.101	813.94	0.0002	P	6.1
3	☐	1.000	0.939	1605.69	0.0004	P	4.1
4	☐	50.000	51.667	53324.57	0.0117	P	1.3
5	☐	125.000	125.889	130345.54	0.0284	P	1.5
6	☐	250.000	256.810	260107.72	0.0577	P	2.0
7	☐	500.000	511.191	522214.13	0.1147	P	1.9
8	☐	1000.000	992.507	1047060.08	0.2225	P	1.7
9	☐			6204.34	0.0014	P	2.2

$$y = 2.2400E-004 * x + 1.6527E-004$$

$$R = 0.9999$$

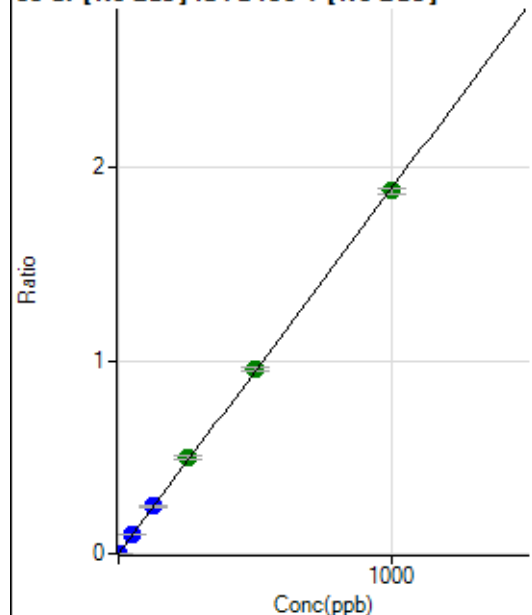
$$DL = 0.3015$$

$$BEC = 0.7378$$

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	202.78	0.0000	P	21.8
2	☐	0.100	0.094	969.50	0.0002	P	9.0
3	☐	1.000	1.022	8452.77	0.0020	P	2.0
4	☐	50.000	52.412	450645.47	0.0992	P	0.3
5	☐	125.000	129.550	1126450.32	0.2451	P	1.1
6	☐	250.000	262.391	2237824.74	0.4964	A	3.2
7	☐	500.000	505.849	4358070.15	0.9570	A	1.4
8	☐	1000.000	993.288	8843110.88	1.8791	A	1.9
9	☐			48150.36	0.0105	P	0.2

$$y = 0.0019 * x + 4.6513E-005$$

$$R = 0.9999$$

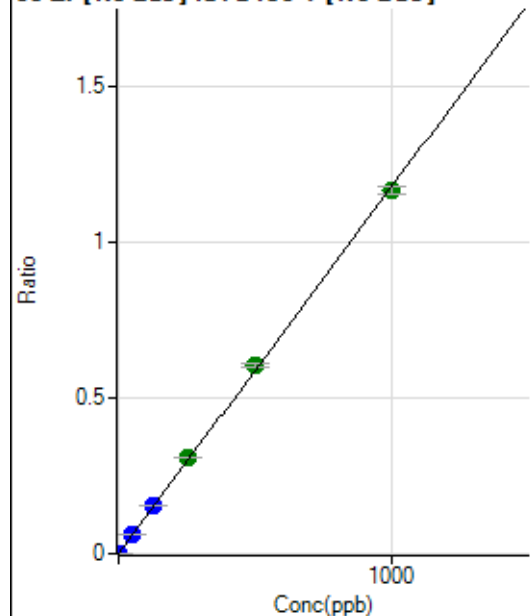
$$DL = 0.01607$$

$$BEC = 0.02459$$

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	219.45	0.0001	P	35.0
2	☐	0.100	0.085	655.59	0.0002	P	13.3
3	☐	1.000	0.945	4976.01	0.0012	P	3.4
4	☐	50.000	52.141	279491.59	0.0615	P	0.9
5	☐	125.000	130.625	707987.69	0.1541	P	1.0
6	☐	250.000	261.430	1390055.79	0.3083	A	1.4
7	☐	500.000	514.720	2763831.68	0.6069	A	1.5
8	☐	1000.000	988.973	5487376.77	1.1660	A	2.3
9	☐			2728.12	0.0006	P	9.3

$$y = 0.0012 * x + 5.0499E-005$$

$$R = 0.9998$$

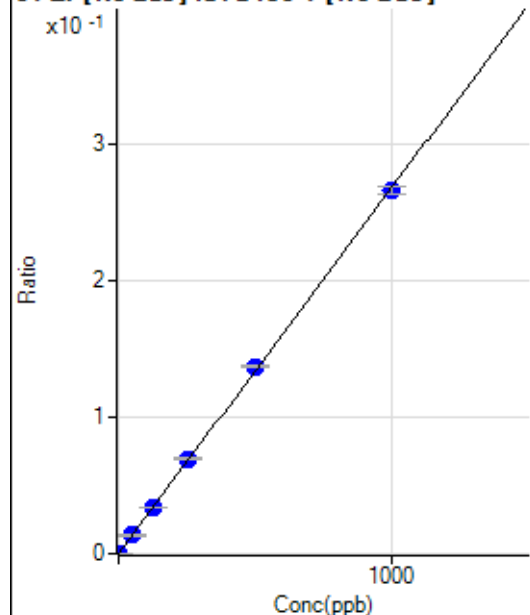
$$DL = 0.045$$

$$BEC = 0.04283$$

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	30.56	0.0000	P	57.8
2	☐	0.100	0.089	133.34	0.0000	P	31.4
3	☐	1.000	1.016	1188.98	0.0003	P	14.7
4	☐	50.000	50.545	61427.31	0.0135	P	2.6
5	☐	125.000	127.250	156412.77	0.0340	P	1.0
6	☐	250.000	258.399	311581.08	0.0691	P	1.9
7	☐	500.000	511.036	622368.78	0.1367	P	1.4
8	☐	1000.000	992.074	1248496.83	0.2653	P	2.0
9	☐			666.70	0.0001	P	10.5

$$y = 2.6741\text{E-}004 * x + 7.0490\text{E-}006$$

$$R = 0.9999$$

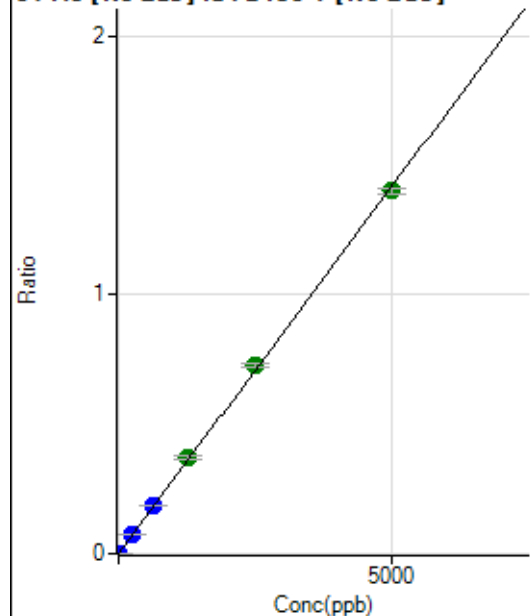
$$DL = 0.04569$$

$$BEC = 0.02636$$

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	63.89	0.0000	P	16.1
2	☐	0.500	0.479	652.81	0.0002	P	7.2
3	☐	5.000	5.079	6212.69	0.0015	P	1.4
4	☐	250.000	259.928	334876.63	0.0737	P	0.8
5	☐	625.000	650.485	847600.97	0.1845	P	2.2
6	☐	1250.000	1309.967	1674556.63	0.3714	A	2.6
7	☐	2500.000	2572.500	3321791.20	0.7294	A	1.6
8	☐	5000.000	4945.076	6599135.91	1.4021	A	1.5
9	☐			4548.10	0.0010	P	5.1

$$y = 2.8354\text{E-}004 * x + 1.4691\text{E-}005$$

$$R = 0.9998$$

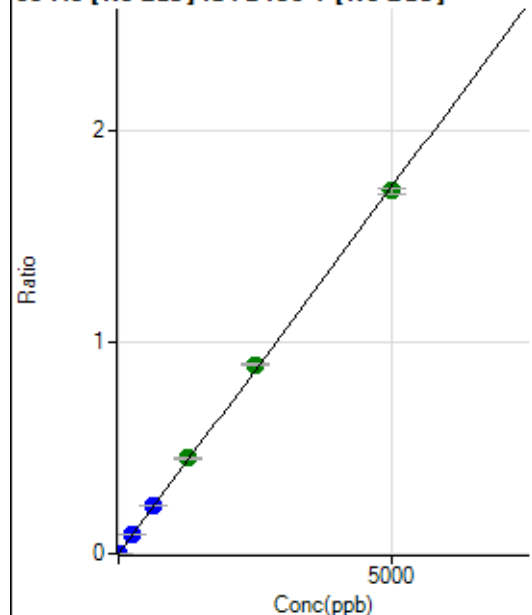
$$DL = 0.02498$$

$$BEC = 0.05181$$

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	33.34	0.0000	P	42.7
2	☐	0.500	0.541	844.50	0.0002	P	8.6
3	☐	5.000	5.252	7791.28	0.0018	P	2.5
4	☐	250.000	260.059	408782.30	0.0900	P	0.8
5	☐	625.000	645.188	1025895.26	0.2232	P	0.8
6	☐	1250.000	1303.652	2033595.40	0.4510	A	3.0
7	☐	2500.000	2573.606	4055352.30	0.8904	A	0.9
8	☐	5000.000	4946.757	8054611.99	1.7115	A	1.7
9	☐			6220.99	0.0014	P	5.1

$$y = 3.4598\text{E-}004 * x + 7.6376\text{E-}006$$

$$R = 0.9998$$

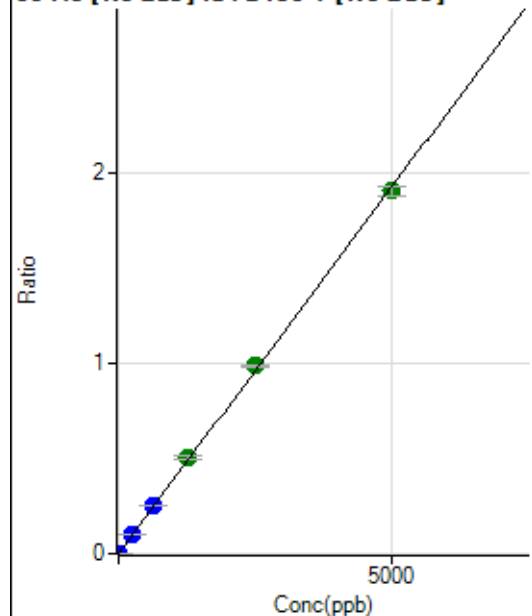
$$DL = 0.0283$$

$$BEC = 0.02208$$

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	113.89	0.0000	P	31.5
2	☐	0.500	0.510	963.95	0.0002	P	1.8
3	☐	5.000	5.410	9000.37	0.0021	P	4.6
4	☐	250.000	262.744	459203.63	0.1011	P	2.0
5	☐	625.000	647.616	1144957.85	0.2491	P	0.9
6	☐	1250.000	1307.082	2266394.60	0.5028	A	3.7
7	☐	2500.000	2561.158	4486954.96	0.9852	A	0.2
8	☐	5000.000	4951.686	8963085.19	1.9047	A	2.8
9	☐			7246.53	0.0016	P	5.9

$$y = 3.8465\text{E-}004 * x + 2.6231\text{E-}005$$

$$R = 0.9998$$

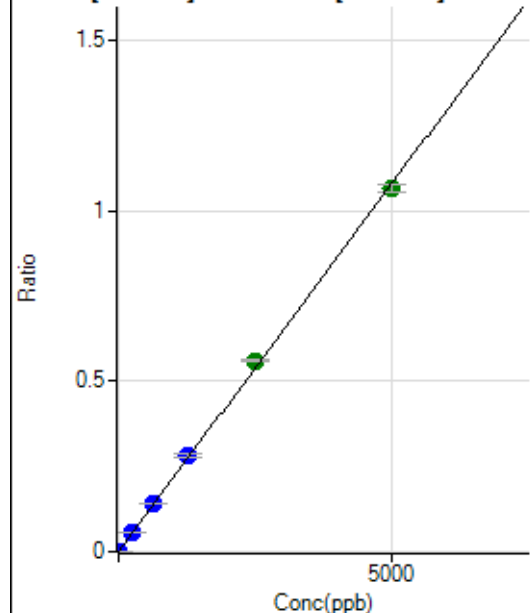
$$DL = 0.06444$$

$$BEC = 0.06819$$

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	13.89	0.0000	P	70.3
2	☐	0.500	0.478	461.13	0.0001	P	4.9
3	☐	5.000	5.262	4859.32	0.0011	P	4.5
4	☐	250.000	260.085	254878.79	0.0561	P	2.3
5	☐	625.000	644.313	638818.96	0.1390	P	0.5
6	☐	1250.000	1309.942	1273953.14	0.2826	P	3.1
7	☐	2500.000	2596.653	2551096.26	0.5602	A	1.3
8	☐	5000.000	4933.769	5008676.20	1.0644	A	2.3
9	☐			3964.56	0.0009	P	5.7

$$y = 2.1573\text{E-}004 * x + 3.2037\text{E-}006$$

$$R = 0.9996$$

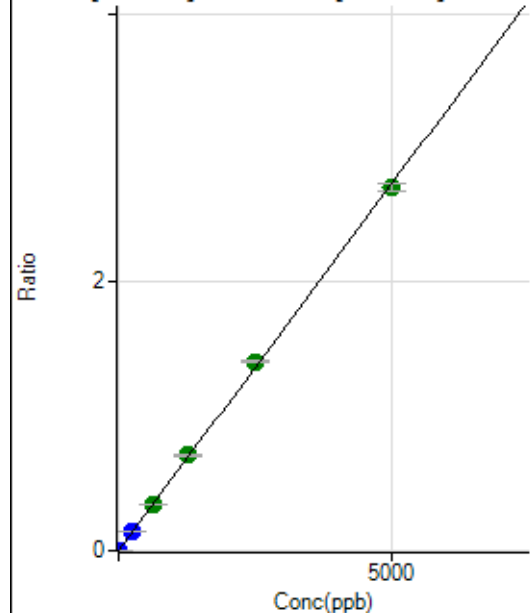
$$DL = 0.03132$$

$$BEC = 0.01485$$

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	22.22	0.0000	P	78.4
2	☐	0.500	0.500	1205.64	0.0003	P	7.9
3	☐	5.000	5.398	12603.27	0.0030	P	1.9
4	☐	250.000	262.873	651764.01	0.1435	P	1.2
5	☐	625.000	634.401	1591232.30	0.3462	A	0.7
6	☐	1250.000	1301.472	3202095.49	0.7103	A	3.0
7	☐	2500.000	2574.948	6400179.57	1.4053	A	1.2
8	☐	5000.000	4947.839	12707674.76	2.7004	A	2.2
9	☐			9956.66	0.0022	P	6.4

$$y = 5.4577\text{E-}004 * x + 5.1048\text{E-}006$$

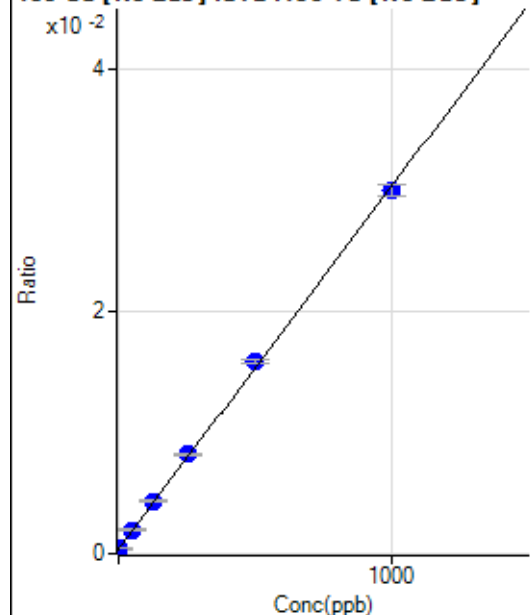
$$R = 0.9998$$

$$DL = 0.02201$$

$$BEC = 0.009353$$

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	0.0004	P	1.7
2	☐	0.100	0.302	991.73	0.0004	P	12.4
3	☐	1.000	2.607	1163.98	0.0005	P	5.9
4	☐	50.000	52.850	5281.71	0.0020	P	3.4
5	☐	125.000	131.845	11738.68	0.0043	P	4.5
6	☐	250.000	261.947	22073.60	0.0082	P	1.4
7	☐	500.000	516.688	42755.60	0.0158	P	2.4
8	☐	1000.000	987.670	83633.98	0.0299	P	3.1
9	☐			1063.96	0.0004	P	9.2

$$y = 2.9933\text{E-}005 * x + 3.7507\text{E-}004$$

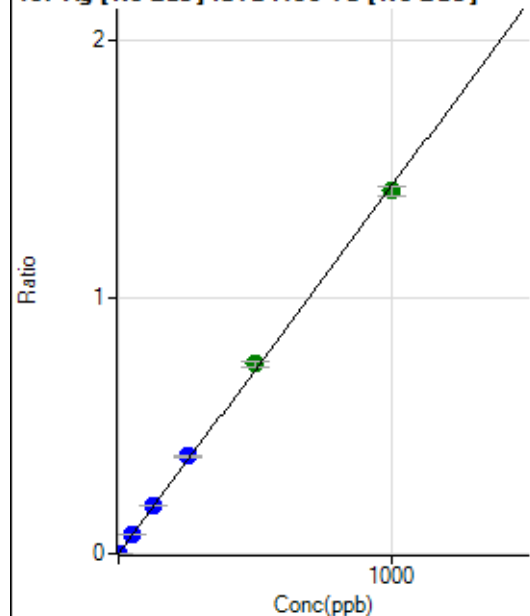
$$R = 0.9997$$

$$DL = 0.6555$$

$$BEC = 12.53$$

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	52.78	0.0000	P	7.6
2	☐	0.100	0.110	461.13	0.0002	P	19.4
3	☐	1.000	1.125	4189.63	0.0016	P	8.8
4	☐	50.000	52.535	203305.17	0.0753	P	2.6
5	☐	125.000	131.181	510960.93	0.1881	P	2.2
6	☐	250.000	264.939	1020377.26	0.3798	P	1.0
7	☐	500.000	515.976	1996093.84	0.7396	A	3.0
8	☐	1000.000	987.378	3953670.75	1.4154	A	2.9
9	☐			1847.40	0.0007	P	10.0

$$y = 0.0014 * x + 2.0355\text{E-}005$$

$$R = 0.9997$$

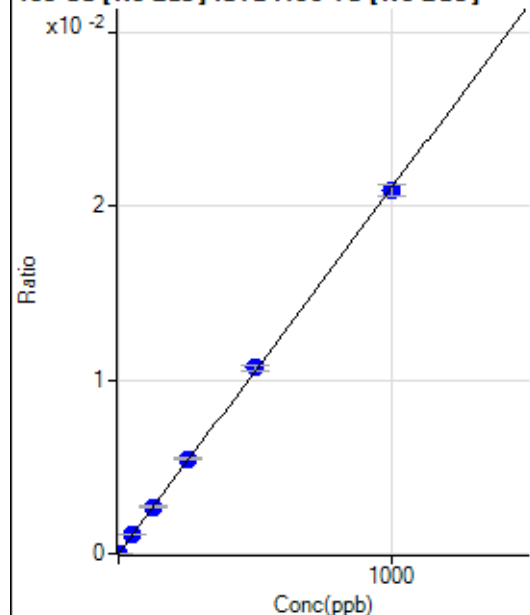
$$DL = 0.003248$$

$$BEC = 0.0142$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	De _t	RSD
1	☐	0.000	0.000	8.33	0.0000	P	52.1
2	☐	0.100	0.050	11.11	0.0000	P	141.8
3	☐	1.000	1.184	72.22	0.0000	P	13.4
4	☐	50.000	52.533	2986.47	0.0011	P	6.9
5	☐	125.000	127.083	7264.50	0.0027	P	5.2
6	☐	250.000	259.859	14677.35	0.0055	P	0.8
7	☐	500.000	509.319	28888.58	0.0107	P	3.3
8	☐	1000.000	992.489	58255.77	0.0209	P	3.2
9	☐			50.00	0.0000	P	36.1

$$y = 2.1010\text{E-}005 * x + 3.2381\text{E-}006$$

$$R = 0.9999$$

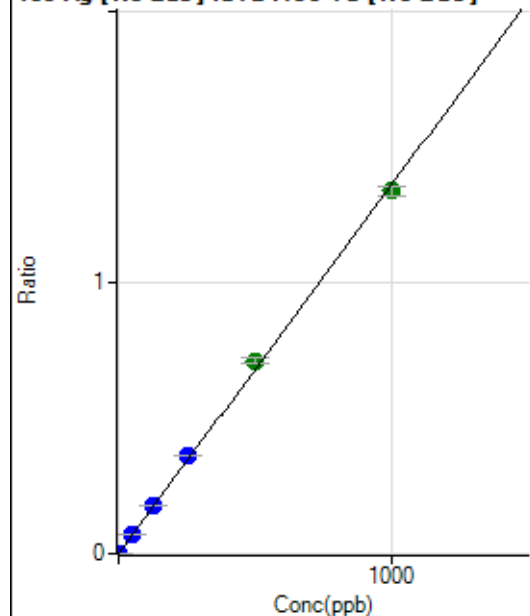
$$DL = 0.241$$

$$BEC = 0.1541$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	De _t	RSD
1	☐	0.000	0.000	41.67	0.0000	P	81.8
2	☐	0.100	0.100	391.68	0.0002	P	20.3
3	☐	1.000	1.082	3817.31	0.0015	P	1.5
4	☐	50.000	52.569	192838.07	0.0714	P	1.8
5	☐	125.000	131.117	484163.07	0.1782	P	0.6
6	☐	250.000	265.797	970306.57	0.3612	P	0.6
7	☐	500.000	522.595	1916309.79	0.7101	A	2.6
8	☐	1000.000	983.860	3734282.33	1.3368	A	2.6
9	☐			1819.61	0.0007	P	16.6

$$y = 0.0014 * x + 1.6292\text{E-}005$$

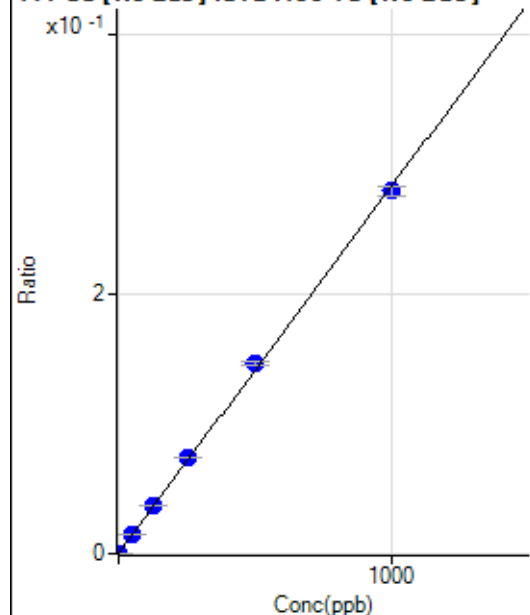
$$R = 0.9995$$

$$DL = 0.02942$$

$$BEC = 0.01199$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	492.81	0.0002	P	2.5
2	☐	0.100	0.108	570.03	0.0002	P	11.0
3	☐	1.000	1.112	1296.74	0.0005	P	0.3
4	☐	50.000	52.091	40322.94	0.0149	P	2.5
5	☐	125.000	129.444	100099.71	0.0368	P	2.0
6	☐	250.000	262.393	200116.53	0.0745	P	1.1
7	☐	500.000	517.321	395854.45	0.1467	P	2.3
8	☐	1000.000	987.581	781683.15	0.2798	P	2.7
9	☐			913.66	0.0003	P	3.1

$$y = 2.8315E-004 * x + 1.9010E-004$$

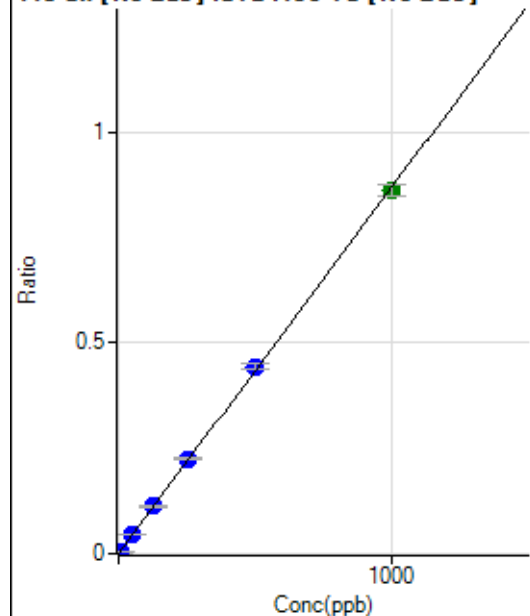
$$R = 0.9997$$

$$DL = 0.05034$$

$$BEC = 0.6714$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	388.90	0.0002	P	10.4
2	☐	0.500	0.461	1422.34	0.0006	P	1.8
3	☐	5.000	5.082	11722.01	0.0046	P	2.4
4	☐	50.000	51.337	120816.38	0.0448	P	1.4
5	☐	125.000	128.974	304927.78	0.1122	P	1.0
6	☐	250.000	259.502	606191.52	0.2256	P	1.4
7	☐	500.000	511.997	1201132.51	0.4450	P	2.1
8	☐	1000.000	991.062	2405822.91	0.8613	A	3.2
9	☐			1869.62	0.0007	P	12.1

$$y = 8.6891E-004 * x + 1.5019E-004$$

$$R = 0.9998$$

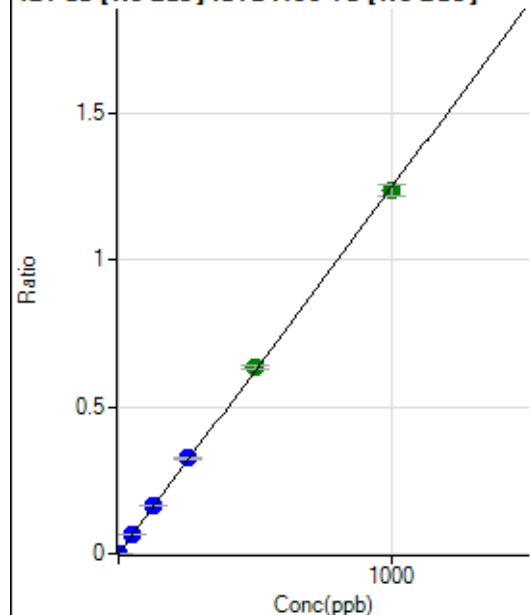
$$DL = 0.05405$$

$$BEC = 0.1729$$

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	41.67	0.0000	P	2.6
2	☐	0.200	0.195	669.48	0.0003	P	8.9
3	☐	2.000	1.954	6307.17	0.0025	P	0.9
4	☐	50.000	51.818	174682.42	0.0647	P	1.9
5	☐	125.000	130.051	441277.14	0.1624	P	1.3
6	☐	250.000	261.124	875998.77	0.3261	P	1.3
7	☐	500.000	511.572	1724051.43	0.6388	A	2.2
8	☐	1000.000	990.711	3455451.60	1.2370	A	3.1
9	☐			3356.05	0.0012	P	6.4

$$y = 0.0012 * x + 1.6086E-005$$

$$R = 0.9998$$

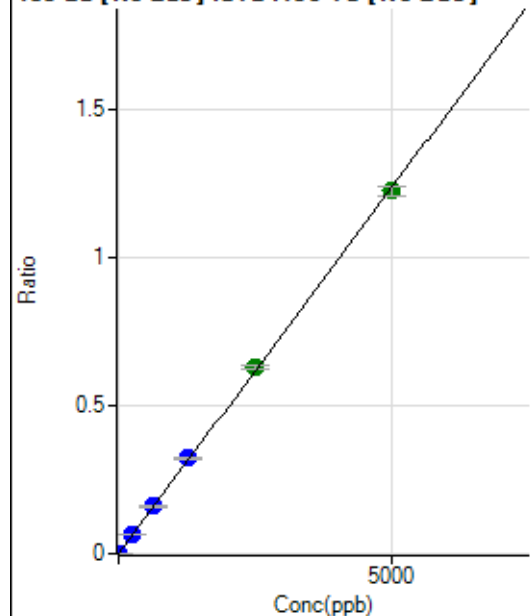
$$DL = 0.0009908$$

$$BEC = 0.01288$$

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	25.00	0.0000	P	60.5
2	☐	1.000	0.894	594.48	0.0002	P	14.7
3	☐	10.000	9.839	6254.40	0.0024	P	1.3
4	☐	250.000	260.436	173365.77	0.0642	P	2.5
5	☐	625.000	645.566	432581.52	0.1592	P	1.3
6	☐	1250.000	1305.336	864788.26	0.3219	P	1.6
7	☐	2500.000	2546.580	1694875.12	0.6280	A	2.4
8	☐	5000.000	4959.784	3416480.15	1.2230	A	2.9
9	☐			6990.88	0.0026	P	5.4

$$y = 2.4659E-004 * x + 9.7462E-006$$

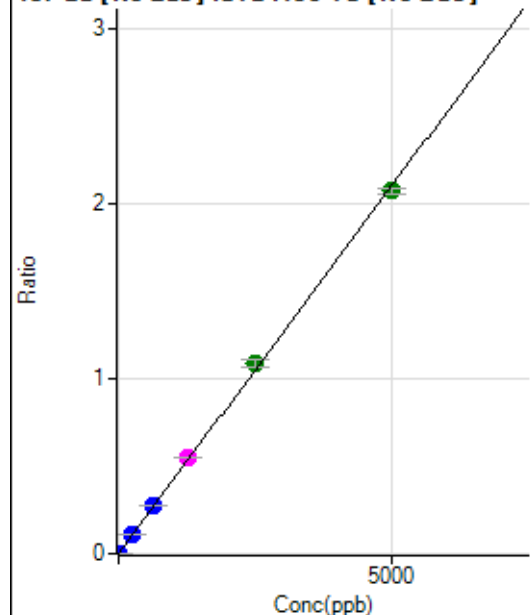
$$R = 0.9999$$

$$DL = 0.07174$$

$$BEC = 0.03952$$

Weight: <None>

Min Conc: 0

¹³⁷Ba [No Gas] ISTD : ¹⁵⁹Tb [No Gas]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	72.22	0.0000	P	26.8
2	☐	1.000	0.960	1113.96	0.0004	P	3.4
3	☐	10.000	9.984	10851.86	0.0042	P	3.3
4	☐	250.000	260.060	295046.13	0.1093	P	1.3
5	☐	625.000	649.251	741335.00	0.2728	P	1.7
6	☐	1250.000	1305.010	1473370.25	0.5484	M	0.6
7	☐	2500.000	2594.355	2941839.41	1.0902	A	3.4
8	☐	5000.000	4935.536	5794170.49	2.0739	A	1.8
9	☐			11913.88	0.0044	P	3.4

$$y = 4.2020\text{E-}004 * x + 2.7996\text{E-}005$$

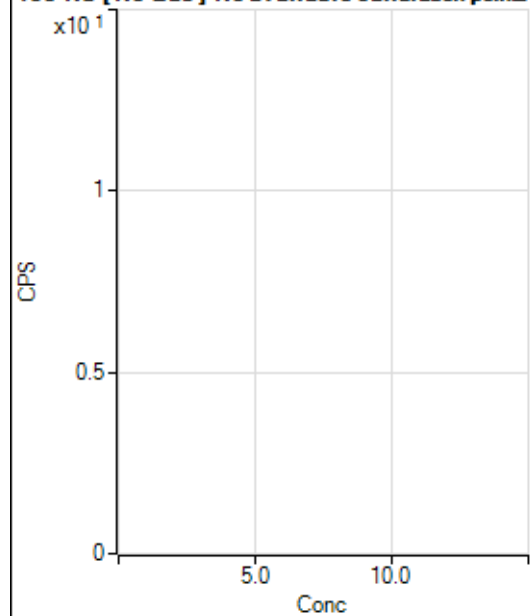
$$R = 0.9997$$

$$DL = 0.05348$$

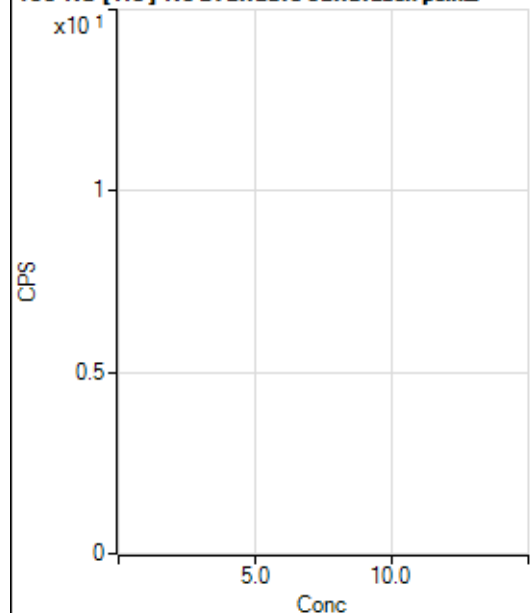
$$BEC = 0.06662$$

Weight: <None>

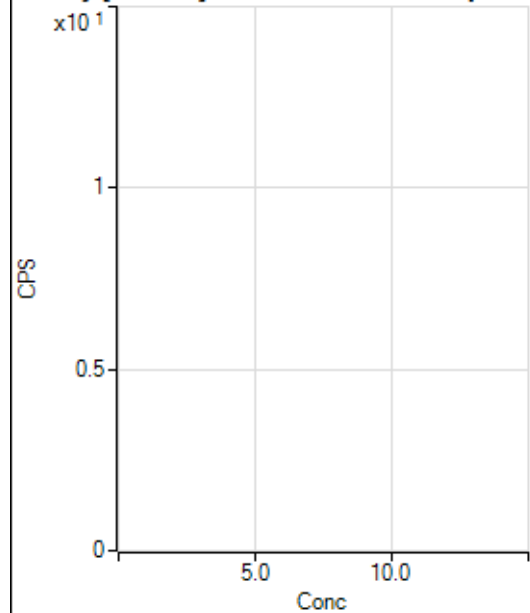
Min Conc: 0

¹⁵⁰Nd [No Gas] No available calibration points

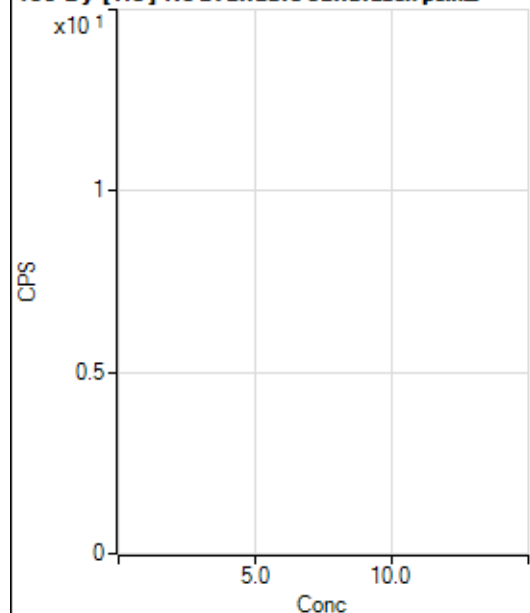
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			2.22		P	173.2
2	☐			2.22		P	173.2
3	☐			6.67		P	100.0
4	☐			13.33		P	50.0
5	☐			13.34		P	86.6
6	☐			37.78		P	66.8
7	☐			62.23		P	60.9
8	☐			117.78		P	3.3
9	☐			26.67		P	25.0

150 Nd [He] No available calibration points

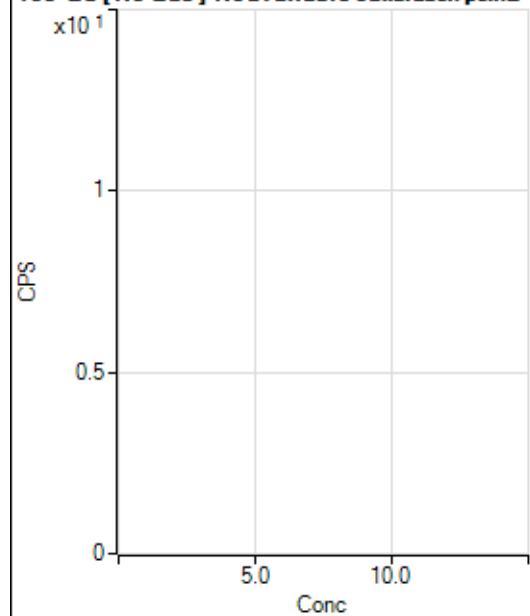
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			2.22		P	86.6
2	☐			0.00		P	
3	☐			1.11		P	173.2
4	☐			0.00		P	
5	☐			2.22		P	173.2
6	☐			2.22		P	86.6
7	☐			5.56		P	34.7
8	☐			7.78		P	49.5
9	☐			7.78		P	24.7

156 Dy [No Gas] No available calibration points

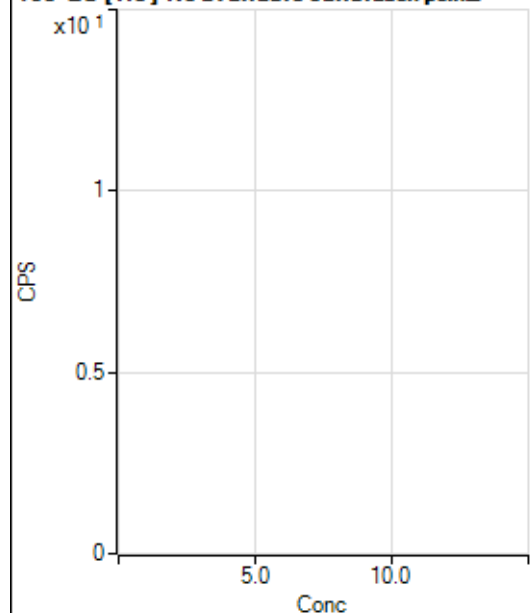
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			13.89		P	69.3
2	☐			2.78		P	173.2
3	☐			2.78		P	173.2
4	☐			13.89		P	91.6
5	☐			25.00		P	33.3
6	☐			22.22		P	78.1
7	☐			33.33		P	75.0
8	☐			75.00		P	11.1
9	☐			188.89		P	11.1

156 Dy [He] No available calibration points

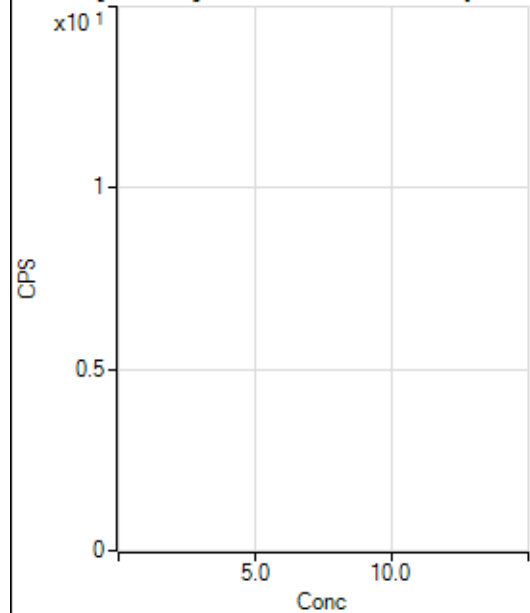
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			2.22		P	86.6
2	☐			3.33		P	100.1
3	☐			3.33		P	100.1
4	☐			3.33		P	100.1
5	☐			4.44		P	114.6
6	☐			6.67		P	100.0
7	☐			12.22		P	68.7
8	☐			22.22		P	31.2
9	☐			104.44		P	9.2

160 Gd [No Gas] Noavailable calibration poin_

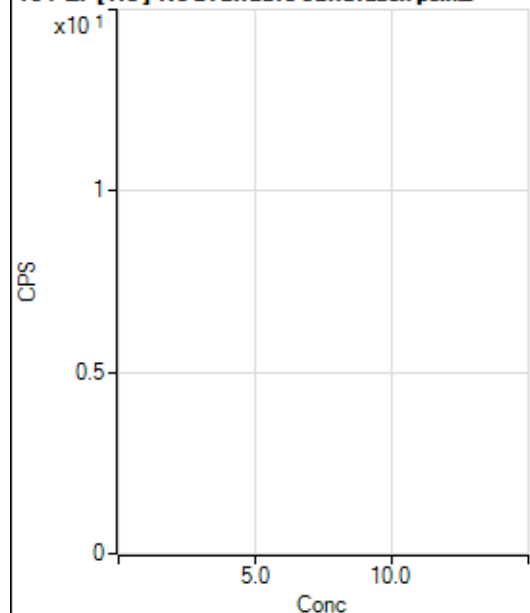
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			25.00		P	66.7
2	☐			30.55		P	15.7
3	☐			8.33		P	0.0
4	☐			30.56		P	31.5
5	☐			11.11		P	43.3
6	☐			38.89		P	12.4
7	☐			47.22		P	36.7
8	☐			80.56		P	26.0
9	☐			208.34		P	22.3

160 Gd [He] No available calibration points

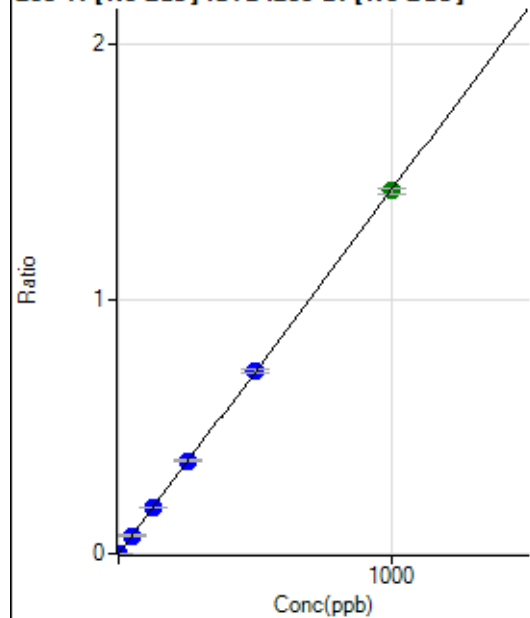
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			8.89		P	21.6
2	☐			6.66		P	86.6
3	☐			10.00		P	33.3
4	☐			8.89		P	57.3
5	☐			11.11		P	17.3
6	☐			12.22		P	56.8
7	☐			16.67		P	72.1
8	☐			37.78		P	18.4
9	☐			135.56		P	9.3

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			13.89		P	34.7
2	☐			13.89		P	124.9
3	☐			27.78		P	45.8
4	☐			13.89		P	69.3
5	☐			2.78		P	173.2
6	☐			22.22		P	78.1
7	☐			11.11		P	86.6
8	☐			22.22		P	21.6
9	☐			44.44		P	39.0

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			6.66		P	86.6
2	☐			14.44		P	58.1
3	☐			8.89		P	78.1
4	☐			5.55		P	69.3
5	☐			10.00		P	33.3
6	☐			5.56		P	91.6
7	☐			11.11		P	69.3
8	☐			7.78		P	49.5
9	☐			21.11		P	45.6

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	52.78	0.0000	P	76.8
2	☐	0.100	0.087	236.12	0.0002	P	8.0
3	☐	1.000	0.996	2144.69	0.0015	P	6.9
4	☐	50.000	49.767	110221.05	0.0711	P	2.0
5	☐	125.000	125.015	280816.05	0.1786	P	0.8
6	☐	250.000	255.319	557132.56	0.3647	P	3.1
7	☐	500.000	502.301	1115035.42	0.7174	P	3.0
8	☐	1000.000	997.530	2229881.82	1.4246	A	1.7
9	☐			1358.45	0.0009	P	14.6

$$y = 0.0014 * x + 3.5143E-005$$

$$R = 1.0000$$

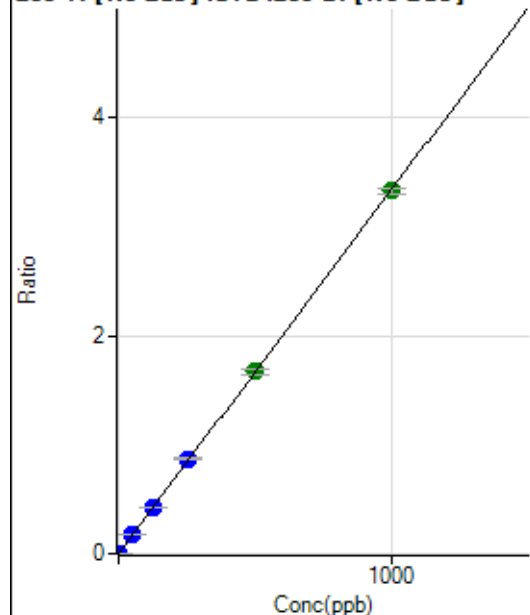
$$DL = 0.05669$$

$$BEC = 0.02461$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	De _t	RSD
1	☐	0.000	0.000	105.56	0.0001	P	27.7
2	☐	0.100	0.093	566.70	0.0004	P	13.6
3	☐	1.000	0.962	4837.16	0.0033	P	4.3
4	☐	50.000	50.666	262619.10	0.1694	P	1.5
5	☐	125.000	126.935	667275.44	0.4243	P	1.1
6	☐	250.000	259.605	1325930.71	0.8678	P	2.2
7	☐	500.000	501.002	2602835.19	1.6746	A	3.2
8	☐	1000.000	996.823	5215352.59	3.3318	A	1.7
9	☐			3242.18	0.0022	P	16.0

$$y = 0.0033 * x + 7.0798E-005$$

$$R = 0.9999$$

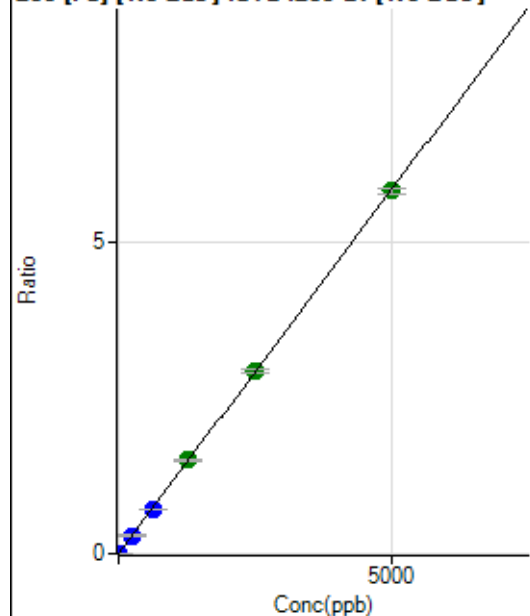
$$DL = 0.01761$$

$$BEC = 0.02118$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	De _t	RSD
1	☐	0.000	0.000	490.76	0.0003	P	17.4
2	☐	0.100	0.080	629.66	0.0004	P	10.2
3	☐	1.000	0.886	2009.45	0.0014	P	6.0
4	☐	250.000	248.452	450095.07	0.2904	P	2.1
5	☐	625.000	612.439	1124826.21	0.7153	P	0.9
6	☐	1250.000	1291.291	2303922.80	1.5078	A	2.1
7	☐	2500.000	2515.215	4564680.83	2.9366	A	2.6
8	☐	5000.000	4983.718	9107209.11	5.8183	A	1.7
9	☐			8821.68	0.0059	P	4.0

$$y = 0.0012 * x + 3.2946E-004$$

$$R = 0.9999$$

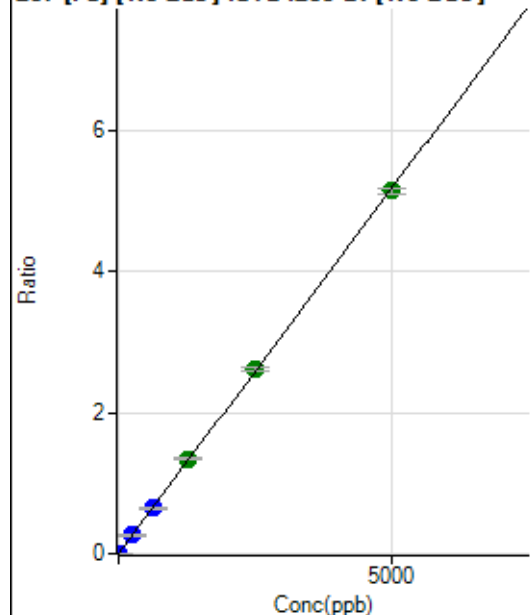
$$DL = 0.1474$$

$$BEC = 0.2822$$

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	427.80	0.0003	P	9.5
2	☐	0.100	0.114	601.88	0.0004	P	2.0
3	☐	1.000	0.975	1907.58	0.0013	P	1.9
4	☐	250.000	251.190	403289.24	0.2602	P	1.8
5	☐	625.000	622.478	1013133.73	0.6443	P	1.2
6	☐	1250.000	1294.418	2046670.97	1.3394	A	2.0
7	☐	2500.000	2536.273	4079471.16	2.6242	A	2.0
8	☐	5000.000	4971.015	8050468.35	5.1431	A	1.8
9	☐			7904.39	0.0053	P	1.9

$$y = 0.0010 * x + 2.8642E-004$$

$$R = 0.9999$$

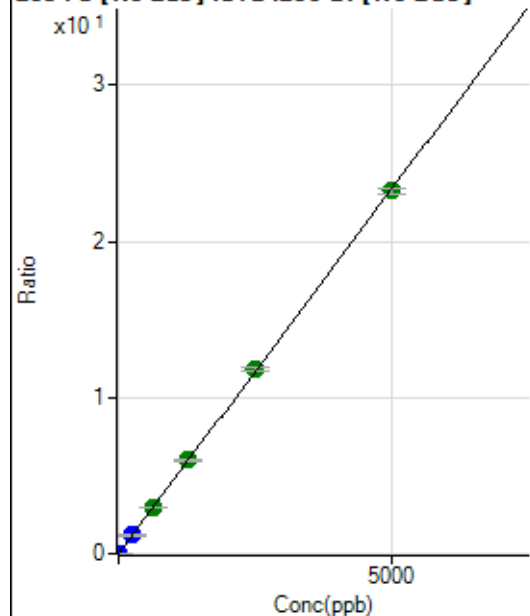
$$DL = 0.07852$$

$$BEC = 0.2768$$

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	1855.65	0.0012	P	5.8
2	☐	0.100	0.092	2489.03	0.0017	P	5.0
3	☐	1.000	0.950	8367.87	0.0057	P	1.2
4	☐	250.000	251.352	1820907.03	1.1747	P	1.6
5	☐	625.000	624.460	4586426.67	2.9165	A	0.9
6	☐	1250.000	1288.161	9191014.47	6.0150	A	2.0
7	☐	2500.000	2524.040	18319545.49	11.7847	A	2.2
8	☐	5000.000	4978.439	36382211.69	23.2431	A	1.7
9	☐			35879.36	0.0240	P	1.4

$$y = 0.0047 * x + 0.0012$$

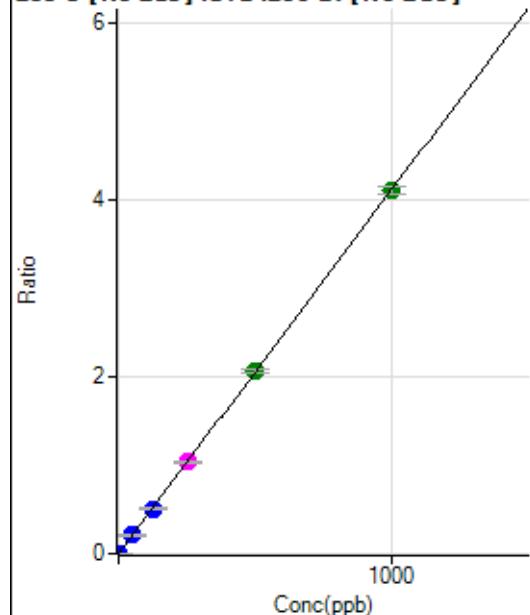
$$R = 0.9999$$

$$DL = 0.04617$$

$$BEC = 0.2666$$

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	13.89	0.0000	P	35.4
2	☐	0.100	0.088	555.58	0.0004	P	16.7
3	☐	1.000	0.989	6004.35	0.0041	P	1.0
4	☐	50.000	50.287	320591.94	0.2068	P	1.5
5	☐	125.000	123.879	801178.49	0.5095	P	0.6
6	☐	250.000	252.046	1583823.51	1.0365	M	2.5
7	☐	500.000	504.396	3224722.77	2.0743	A	1.9
8	☐	1000.000	997.416	6420234.13	4.1019	A	2.2
9	☐			1894.64	0.0013	P	14.5

$$y = 0.0041 * x + 9.3328E-006$$

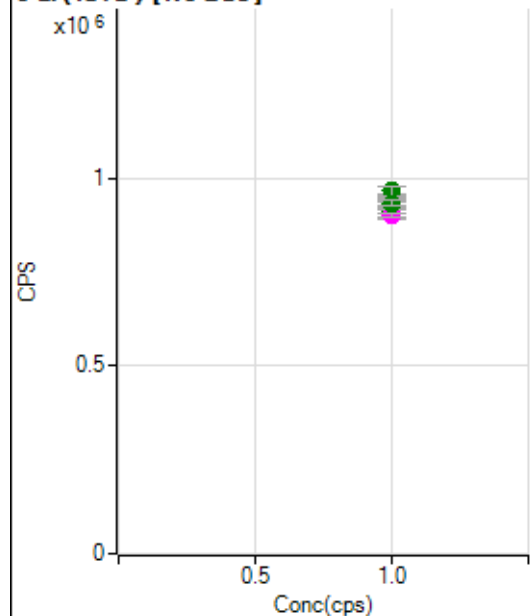
$$R = 1.0000$$

$$DL = 0.002413$$

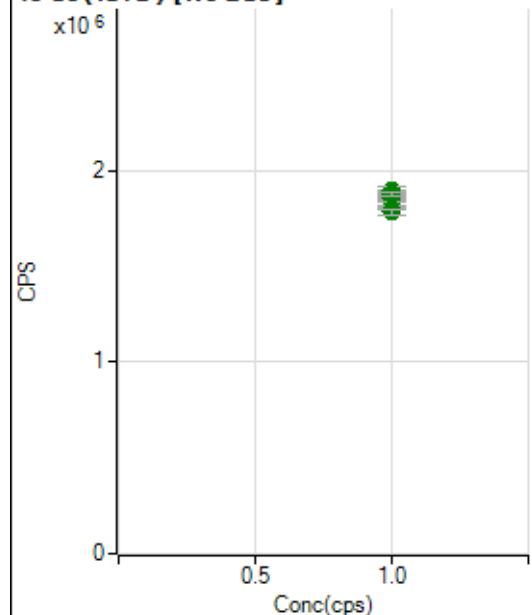
$$BEC = 0.002269$$

Weight: <None>

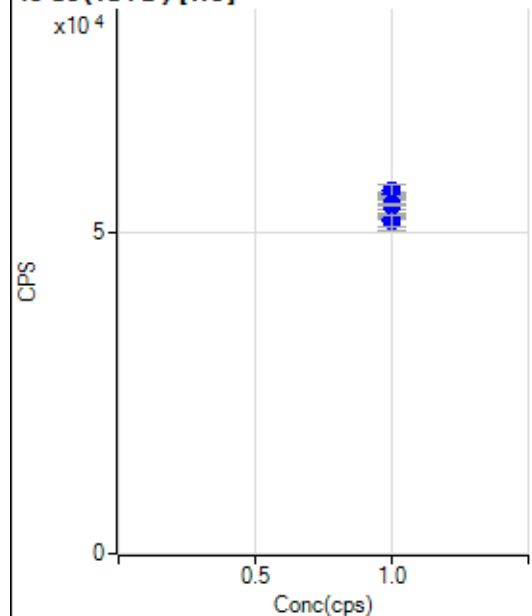
Min Conc: 0

6 Li (ISTD) [No Gas]

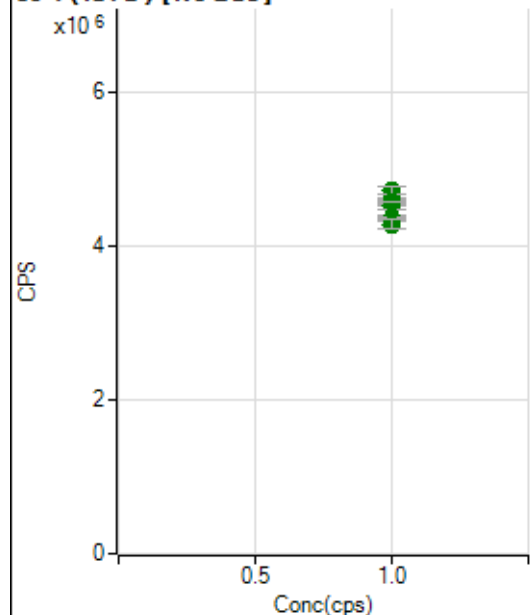
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		906541.88		A	3.0
2	☐	1.000		911857.09		A	1.3
3	☐	1.000		900640.69		M	1.1
4	☐	1.000		943438.53		A	1.5
5	☐	1.000		943101.00		A	1.4
6	☐	1.000		941643.49		A	2.7
7	☐	1.000		953348.32		A	0.9
8	☐	1.000		966701.42		A	2.6
9	☐	1.000		933667.00		A	1.8

45 Sc (ISTD) [No Gas]

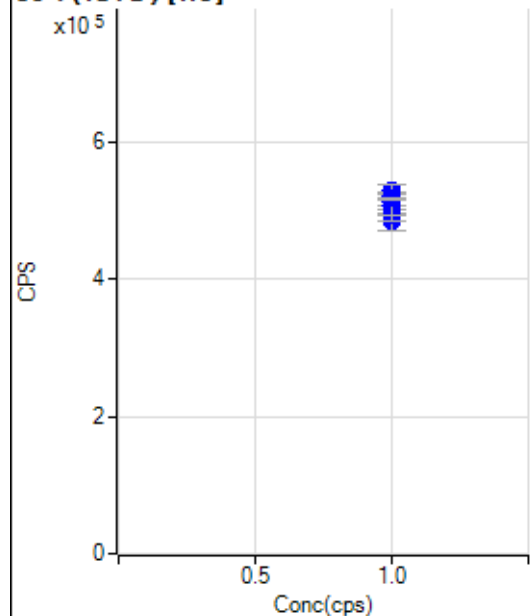
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1788857.02		A	2.1
2	☐	1.000		1810317.49		A	0.4
3	☐	1.000		1785273.67		A	1.4
4	☐	1.000		1867679.38		A	1.8
5	☐	1.000		1892334.02		A	1.2
6	☐	1.000		1867245.46		A	1.5
7	☐	1.000		1861514.64		A	2.0
8	☐	1.000		1895121.13		A	2.4
9	☐	1.000		1876110.84		A	0.9

45 Sc (ISTD) [He]

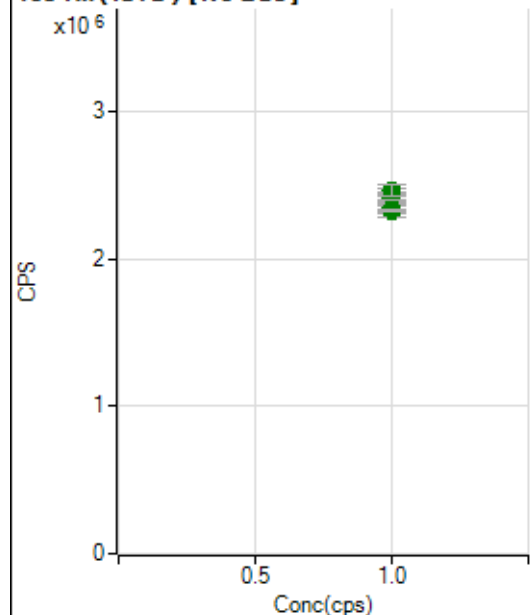
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		52288.24		P	0.1
2	☐	1.000		51994.11		P	5.9
3	☐	1.000		52038.53		P	4.0
4	☐	1.000		54466.16		P	2.7
5	☐	1.000		55555.80		P	1.3
6	☐	1.000		55974.16		P	1.5
7	☐	1.000		56540.68		P	3.5
8	☐	1.000		54217.83		P	5.6
9	☐	1.000		54411.41		P	0.6

89 Y (ISTD) [No Gas]

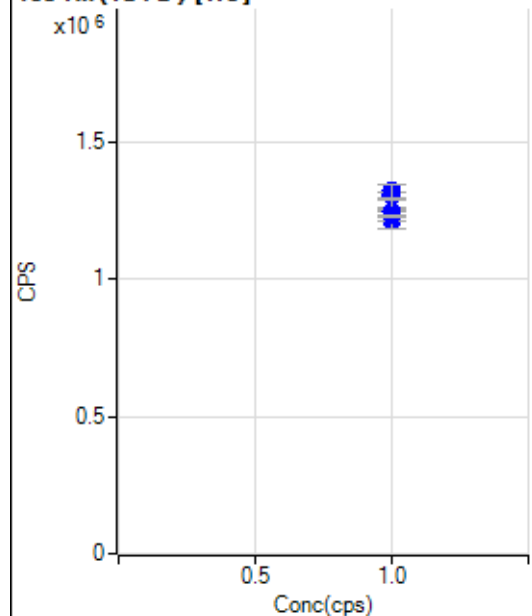
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		4353591.19		A	1.3
2	☐	1.000		4335122.64		A	0.9
3	☐	1.000		4271964.10		A	2.7
4	☐	1.000		4543087.64		A	1.0
5	☐	1.000		4595935.14		A	1.1
6	☐	1.000		4510130.63		A	2.4
7	☐	1.000		4554519.58		A	1.1
8	☐	1.000		4707239.65		A	2.0
9	☐	1.000		4565391.11		A	0.4

89 Y (ISTD) [He]

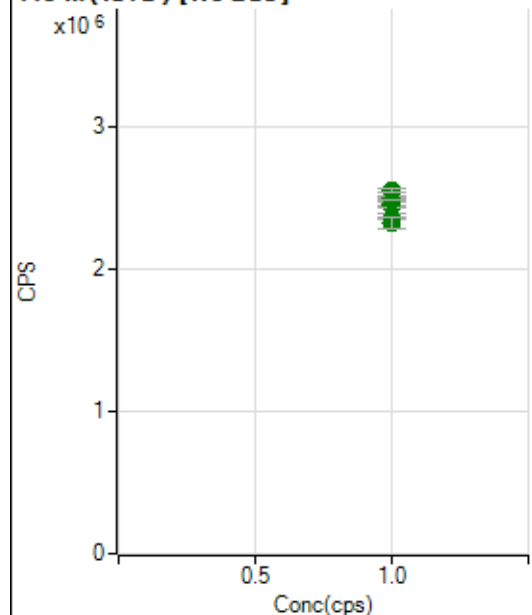
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		493500.80		P	0.6
2	☐	1.000		483382.56		P	5.0
3	☐	1.000		492597.94		P	3.3
4	☐	1.000		512050.97		P	2.0
5	☐	1.000		520469.45		P	1.7
6	☐	1.000		524761.78		P	0.5
7	☐	1.000		528377.14		P	3.7
8	☐	1.000		505596.99		P	5.3
9	☐	1.000		517839.17		P	0.4

103 Rh (ISTD) [No Gas]

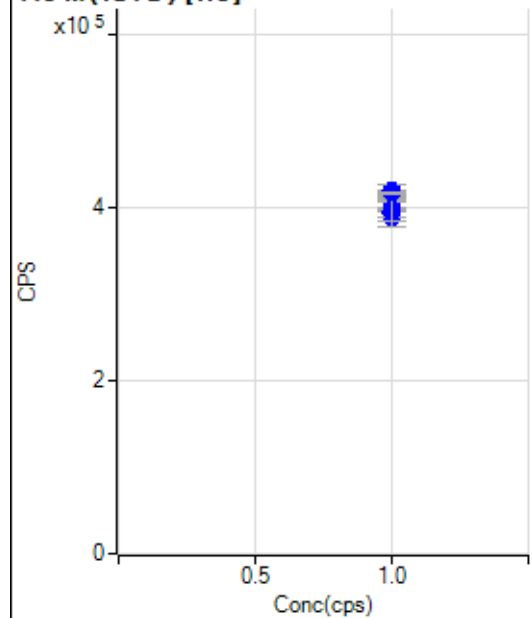
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2343567.61		A	1.7
2	☐	1.000		2341090.50		A	2.4
3	☐	1.000		2323520.12		A	3.6
4	☐	1.000		2437059.10		A	1.0
5	☐	1.000		2453679.89		A	1.4
6	☐	1.000		2412760.23		A	1.8
7	☐	1.000		2425673.21		A	2.0
8	☐	1.000		2458207.46		A	3.0
9	☐	1.000		2330283.28		A	0.7

103 Rh (ISTD) [He]

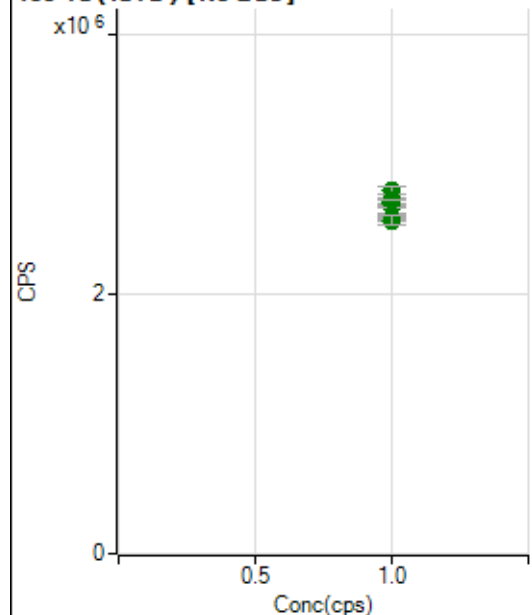
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1249771.34		P	0.4
2	☐	1.000		1215424.53		P	5.1
3	☐	1.000		1244725.16		P	2.8
4	☐	1.000		1303110.32		P	1.8
5	☐	1.000		1308363.64		P	1.7
6	☐	1.000		1317280.31		P	0.3
7	☐	1.000		1321802.25		P	3.8
8	☐	1.000		1250019.95		P	6.0
9	☐	1.000		1231687.68		P	0.5

115 In (ISTD) [No Gas]

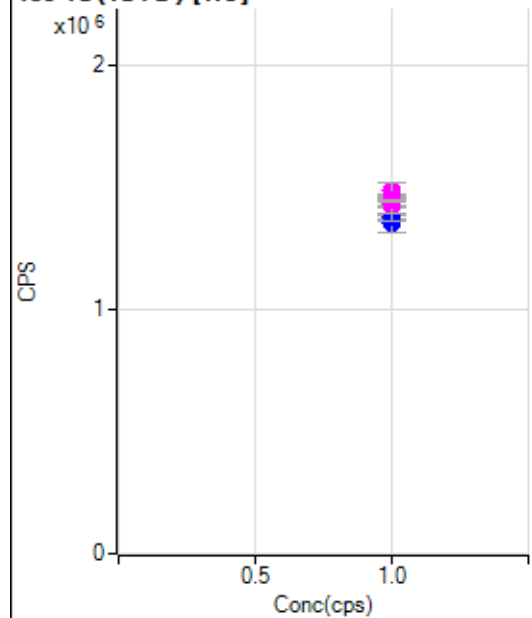
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2362001.78		A	1.8
2	☐	1.000		2351222.23		A	0.7
3	☐	1.000		2317132.87		A	3.2
4	☐	1.000		2455439.91		A	0.7
5	☐	1.000		2512315.37		A	1.8
6	☐	1.000		2443359.32		A	1.6
7	☐	1.000		2482375.31		A	1.5
8	☐	1.000		2498118.44		A	1.3
9	☐	1.000		2544052.28		A	1.2

115 In (ISTD) [He]

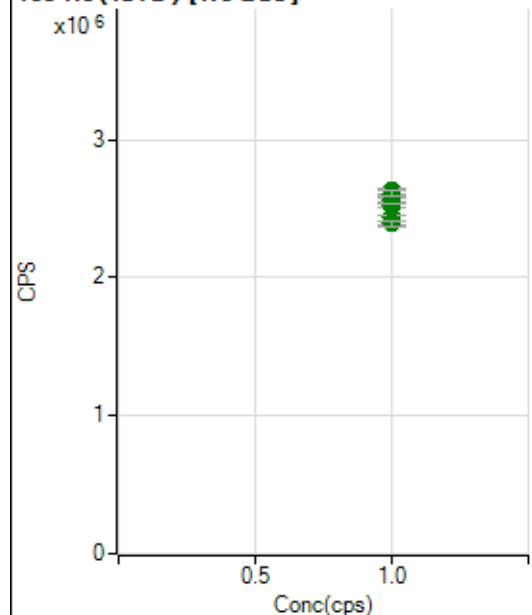
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		396609.29		P	0.6
2	☐	1.000		387858.32		P	5.6
3	☐	1.000		394249.03		P	3.2
4	☐	1.000		409590.77		P	1.7
5	☐	1.000		415649.65		P	1.3
6	☐	1.000		419162.81		P	0.8
7	☐	1.000		419122.93		P	4.0
8	☐	1.000		396435.22		P	5.9
9	☐	1.000		417167.06		P	0.6

159 Tb (ISTD) [No Gas]

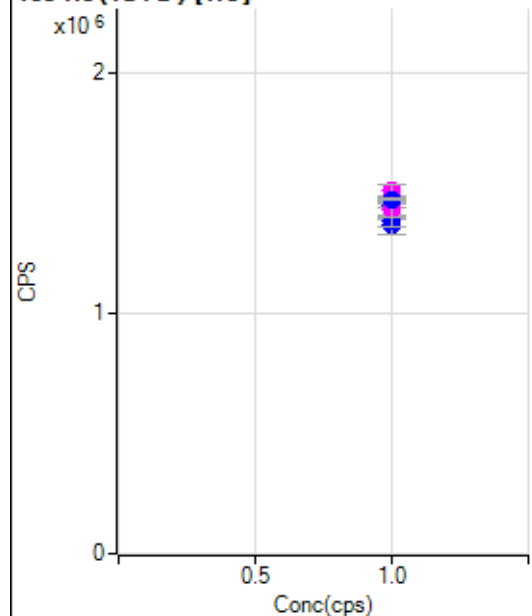
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2591502.02		A	2.5
2	☐	1.000		2581542.69		A	0.4
3	☐	1.000		2568050.88		A	2.7
4	☐	1.000		2699641.51		A	1.5
5	☐	1.000		2717600.18		A	1.6
6	☐	1.000		2686799.23		A	0.8
7	☐	1.000		2699863.73		A	2.2
8	☐	1.000		2794562.70		A	2.2
9	☐	1.000		2726140.79		A	0.2

159 Tb (ISTD) [He]

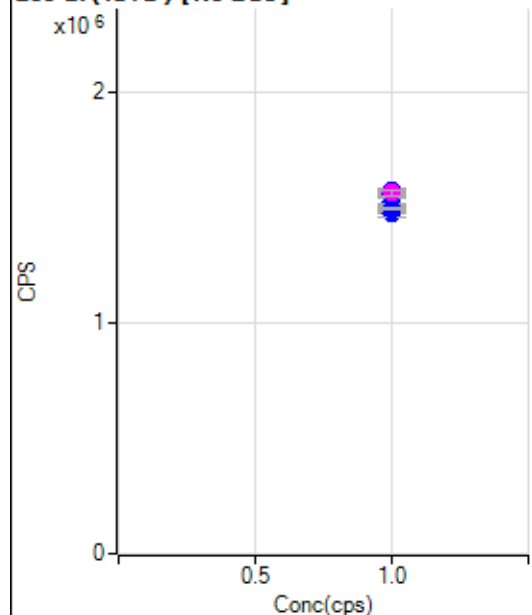
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1378417.40		M	0.9
2	☐	1.000		1351759.16		P	5.9
3	☐	1.000		1377271.64		P	2.7
4	☐	1.000		1427237.95		M	1.5
5	☐	1.000		1443711.89		M	2.7
6	☐	1.000		1470339.49		M	0.5
7	☐	1.000		1484266.47		M	4.1
8	☐	1.000		1430932.56		M	5.0
9	☐	1.000		1445661.51		M	0.8

165 Ho (ISTD) [No Gas]

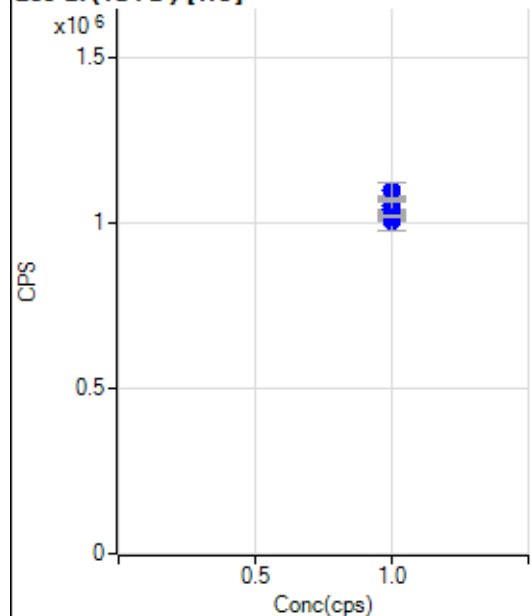
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2416173.12		A	2.5
2	☐	1.000		2430451.55		A	1.3
3	☐	1.000		2390270.41		A	2.2
4	☐	1.000		2524306.94		A	1.5
5	☐	1.000		2552716.35		A	1.4
6	☐	1.000		2539221.52		A	0.6
7	☐	1.000		2565316.96		A	2.3
8	☐	1.000		2627707.74		A	1.7
9	☐	1.000		2607250.88		A	1.6

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1397570.46		P	0.3
2	☐	1.000		1366423.88		P	5.6
3	☐	1.000		1387400.10		P	3.5
4	☐	1.000		1446736.07		P	1.0
5	☐	1.000		1471731.37		P	1.9
6	☐	1.000		1479109.77		M	1.1
7	☐	1.000		1509178.04		M	3.4
8	☐	1.000		1429783.83		M	4.5
9	☐	1.000		1472703.85		P	0.5

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1492121.46		P	2.1
2	☐	1.000		1487976.64		P	1.3
3	☐	1.000		1472939.58		P	1.9
4	☐	1.000		1550324.25		P	1.2
5	☐	1.000		1572668.52		P	1.3
6	☐	1.000		1528296.07		P	1.4
7	☐	1.000		1554936.76		P	1.9
8	☐	1.000		1565583.09		M	1.7
9	☐	1.000		1494538.10		P	0.3

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1018844.37		P	0.4
2	☐	1.000		1003502.88		P	5.3
3	☐	1.000		1018087.22		P	3.0
4	☐	1.000		1050022.17		P	2.0
5	☐	1.000		1068276.27		P	1.5
6	☐	1.000		1073369.81		P	0.9
7	☐	1.000		1095656.08		P	4.2
8	☐	1.000		1037681.03		P	5.3
9	☐	1.000		1019174.43		P	0.6

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8051220 MS.b

Acq. Date-Time 2020-05-12 14:09:01

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		3851	38511.41			1.357	5.000
24		28822	288217.56			1.354	5.000
25		3936	39355.02			1.704	5.000
26		4653	46526.36			1.297	5.000
59		21862	218615.87			1.360	5.000
113		3307	33067.53			0.973	5.000
115		9918	99181.16			1.495	5.000
206		3622	36219.57			0.950	5.000
207		3012	30120.58			0.534	5.000
208		7386	73858.71			0.893	5.000
220		0	4.00			52.291	

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

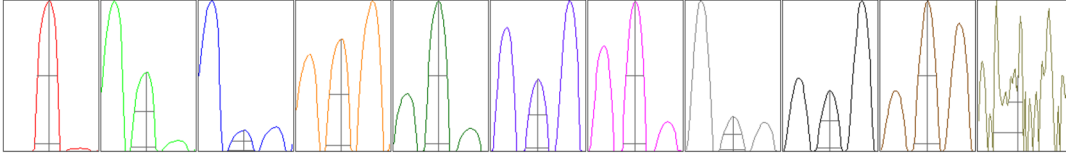
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	3862	3826	3907	3774	3886
24	28921	28603	29185	28258	29142
25	3924	3916	4013	3841	3985
26	4641	4590	4712	4601	4719
59	21723	21784	22285	21506	22010
113	3291	3289	3334	3272	3348
115	10047	9975	10050	9768	9751
206	3573	3623	3631	3613	3669
207	3011	2997	3034	2997	3022
208	7316	7353	7480	7354	7427

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	6353.35	8.95	8.90 - 9.10	
24	48981.83	23.95	23.90 - 24.10	
25	6655.09	24.95	24.90 - 25.10	
26	7710.52	25.95	25.90 - 26.10	
59	38421.77	58.95	58.90 - 59.10	
113	6289.50	113.00	112.90 - 113.10	
115	18702.08	115.00	114.90 - 115.10	
206	6751.81	206.05	205.90 - 206.10	
207	5602.22	207.00	206.90 - 207.10	
208	13913.19	208.00	207.90 - 208.10	
220	0.50	219.80	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.64	0.788	0.900	
24	0.63	0.787	0.900	
25	0.63	0.825	0.900	
26	0.63	0.787	0.900	
59	0.60	0.782	0.900	
113	0.56	0.734	0.900	
115	0.55	0.734	0.900	
206	0.57	0.803	0.900	
207	0.57	0.781	0.900	
208	0.56	0.813	0.900	
220	0.45	0.935		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode HMI Nebulizer Gas 0.51 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	10.8 V	Deflect	13.0 V
Extract 2	-240.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-110 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	140 V		

QP Parameters

Mass Gain	122	Axis Gain	0.9995	QP Bias	-4.0 V
Mass Offset	123	Axis Offset	-0.05		

Hardware Settings

Torch

Torch H	0.3 mm	Torch V	0.0 mm
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EM

Discriminator	4.0 mV	Analog HV	2169 V	Pulse HV	1203 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		5080	50801.51			2.195	
89		8533	85330.97			1.785	
205		11426	114261.69			2.600	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	5131	5116	5200	4905	5050
89	8660	8567	8663	8297	8477
205	11716	11537	11505	10926	11448

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	HMI	Nebulizer Gas	0.51 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	10.8 V	Deflect	4.4 V
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US EPA Tune Check Report

Extract 2	-240.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-110 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	122	Axis Gain	0.9995	QP Bias	-13.0 V
Mass Offset	123	Axis Offset	-0.05		
Hardware Settings					
Torch					
Torch H	0.3 mm	Torch V	0.0 mm		
EM					
Discriminator	4.0 mV	Analog HV	2169 V	Pulse HV	1203 V