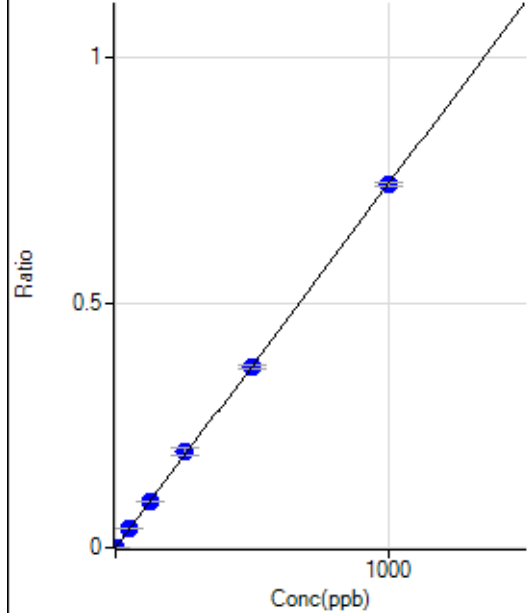


Batch Folder: C:\Agilent\ICPMH\1\DATA\P7040221 MS.b\
Analysis File: P7040221 MS.batch.bin
DA Date-Time: 2021-04-06 11:33:52
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2021-04-02 12:47:20
2	004CALS.d	S02	2021-04-02 12:50:27
3	006CALS.d	S03	2021-04-02 12:56:40
4	007CALS.d	S04	2021-04-02 12:59:47
5	008CALS.d	S05	2021-04-02 13:02:49
6	009CALS.d	S06	2021-04-02 13:05:53
7	010CALS.d	S07	2021-04-02 13:08:50
8	011CALS.d	S08	2021-04-02 13:11:45

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	25.93	0.0000	P	53.5
2	☐	1.000	1.040	1259.33	0.0008	P	3.8
3	☐	50.000	51.989	61381.02	0.0386	P	0.8
4	☐	125.000	125.630	153623.29	0.0932	P	1.6
5	☐	250.000	263.766	305215.52	0.1957	P	9.0
6	☐	500.000	498.015	595782.62	0.3695	P	2.5
7	☐	1000.000	997.373	1189451.52	0.7399	P	0.9
8	☐			251.86	0.0002	P	15.6

$$y = 7.4188\text{E-}004 * x + 1.6034\text{E-}005$$

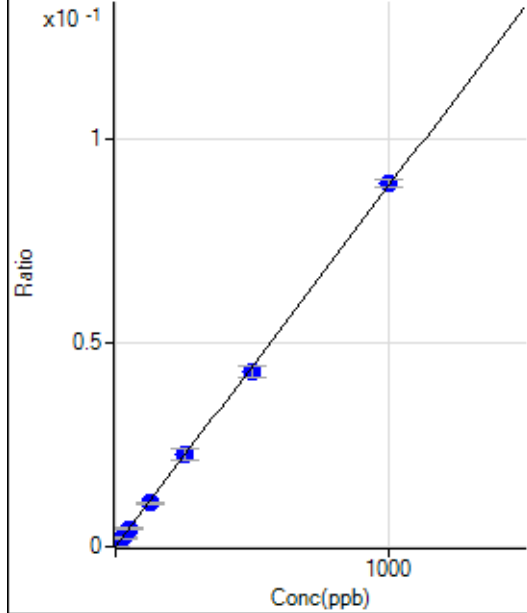
$$R = 0.9999$$

$$DL = 0.03467$$

$$BEC = 0.02161$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	69.45	0.0000	P	29.5
2	☐	25.000	24.187	3492.16	0.0022	P	8.2
3	☐	50.000	50.225	7143.51	0.0045	P	4.1
4	☐	125.000	120.611	17660.71	0.0107	P	6.4
5	☐	250.000	256.703	35469.78	0.0228	P	12.1
6	☐	500.000	484.348	69214.02	0.0429	P	6.9
7	☐	1000.000	1006.708	143367.33	0.0892	P	2.0
8	☐			3572.73	0.0023	P	13.3

$$y = 8.8551\text{E-}005 * x + 4.2960\text{E-}005$$

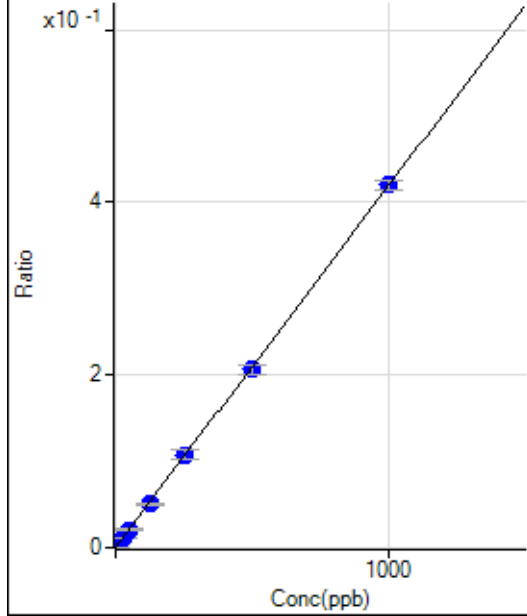
$$R = 0.9998$$

$$DL = 0.4294$$

$$BEC = 0.4851$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	350.01	0.0002	P	15.0
2	☐	25.000	24.461	16723.46	0.0105	P	5.3
3	☐	50.000	49.244	33150.72	0.0208	P	3.3
4	☐	125.000	120.763	83653.28	0.0508	P	5.5
5	☐	250.000	256.351	167561.25	0.1076	P	11.4
6	☐	500.000	492.186	332637.40	0.2063	P	5.3
7	☐	1000.000	1002.900	675432.26	0.4202	P	2.4
8	☐			17666.30	0.0112	P	14.6

$$y = 4.1875E-004 * x + 2.1669E-004$$

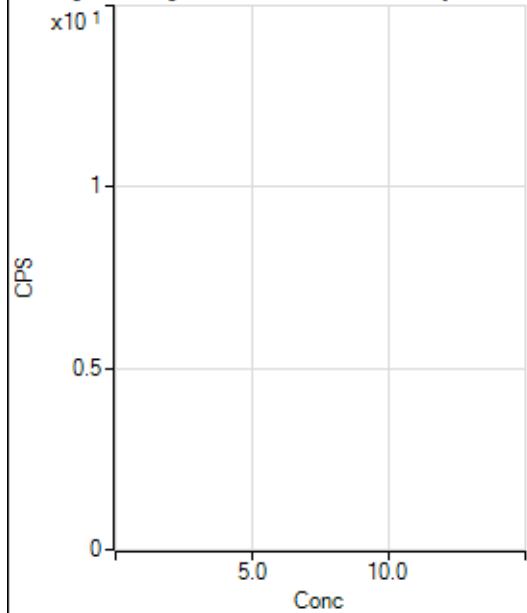
$$R = 0.9999$$

$$DL = 0.233$$

$$BEC = 0.5175$$

Weight: <None>

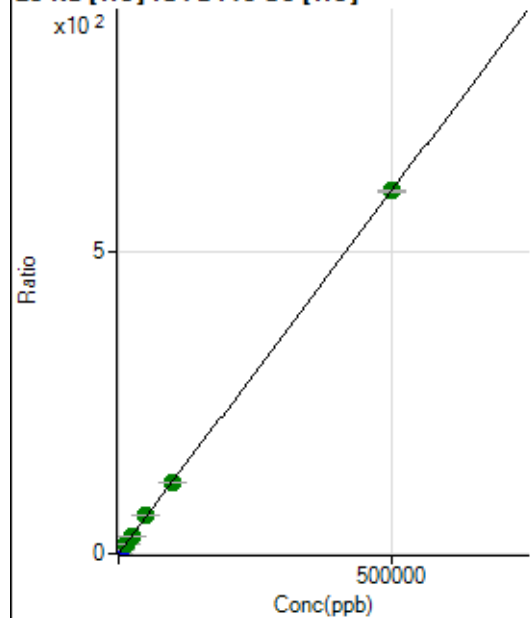
Min Conc: 0

12 C [No Gas] No available calibration points

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

12 C [He] No available calibration points

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

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	19788.43	0.0556	P	3.6
2	☐	500.000	517.511	242241.74	0.6792	P	1.8
3	☐	5000.000	5181.193	2258036.75	6.2995	P	0.5
4	☐	12500.000	12152.620	5226457.02	14.7008	A	0.9
5	☐	25000.000	24894.267	10008159.34	30.0560	A	0.7
6	☐	50000.000	53085.805	18995900.94	64.0299	A	2.8
7	☐	100000.00	98534.162	36909118.53	118.8003	A	0.8
8	☐	500000.00	499996.72	194796365.4	602.6080	A	0.5

$$y = 0.0012 * x + 0.0556$$

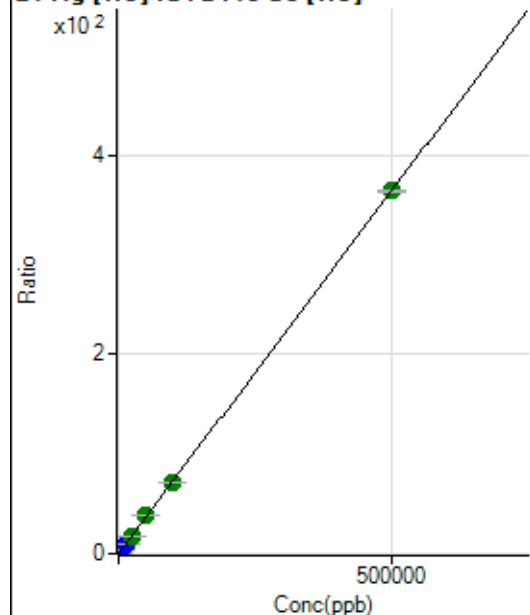
$$R = 1.0000$$

$$DL = 5.041$$

$$BEC = 46.1$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	605.58	0.0017	P	8.9
2	☐	500.000	497.058	129784.08	0.3639	P	1.6
3	☐	5000.000	5110.694	1335465.34	3.7257	P	0.5
4	☐	12500.000	12550.129	3251816.41	9.1466	P	0.8
5	☐	25000.000	24792.074	6015890.93	18.0669	A	1.0
6	☐	50000.000	52681.283	11389076.73	38.3888	A	2.5
7	☐	100000.00	97955.181	22175672.72	71.3785	A	1.0
8	☐	500000.00	500148.87	117807720.6	364.4439	A	0.7

$$y = 7.2867\text{E-}004 * x + 0.0017$$

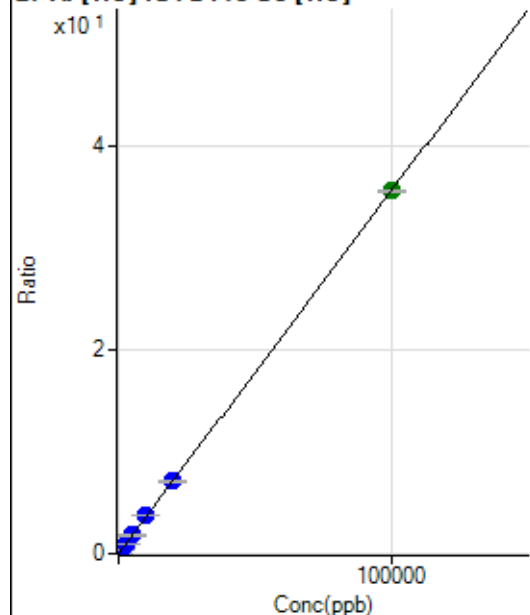
R = 1.0000

DL = 0.6204

BEC = 2.332

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	158.34	0.0004	P	5.4
2	☐	20.000	21.082	2839.23	0.0080	P	3.6
3	☐	1000.000	1010.660	129331.57	0.3608	P	0.1
4	☐	2500.000	2462.695	312353.43	0.8785	P	0.7
5	☐	5000.000	5032.203	597610.36	1.7947	P	0.7
6	☐	10000.000	10696.108	1131551.78	3.8142	P	2.7
7	☐	20000.000	19913.511	2206094.51	7.1008	P	1.0
8	☐	100000.00	99946.903	11519991.58	35.6373	A	0.3

$$y = 3.5656\text{E-}004 * x + 4.4453\text{E-}004$$

R = 1.0000

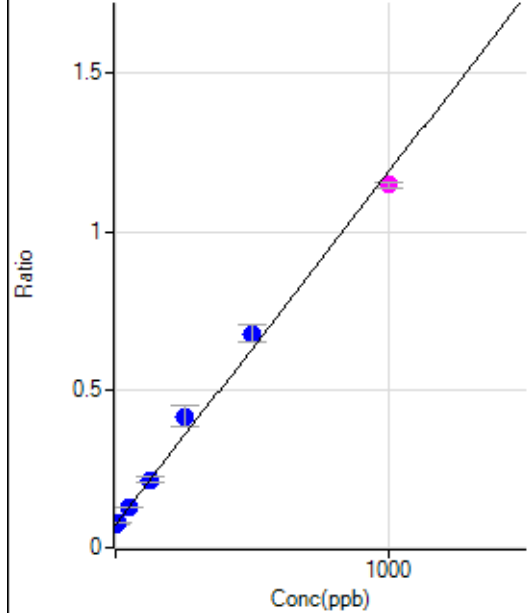
DL = 0.2023

BEC = 1.247

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	322201.28	0.0722	P	1.0
2	☐	10.000	7.400	362373.32	0.0804	P	1.2
3	☐	50.000	51.151	580464.42	0.1292	P	2.3
4	☐	125.000	127.588	993132.02	0.2145	P	7.4
5	☐	250.000	308.651	1751147.58	0.4164	P	16.3
6	☐	500.000	542.385	2828547.91	0.6771	P	8.4
7	☐	1000.000	963.790	4620628.84	1.1471	M	1.6
8	☐			448628.55	0.1092	P	2.1

$$y = 0.0011 * x + 0.0722$$

R = 0.9964

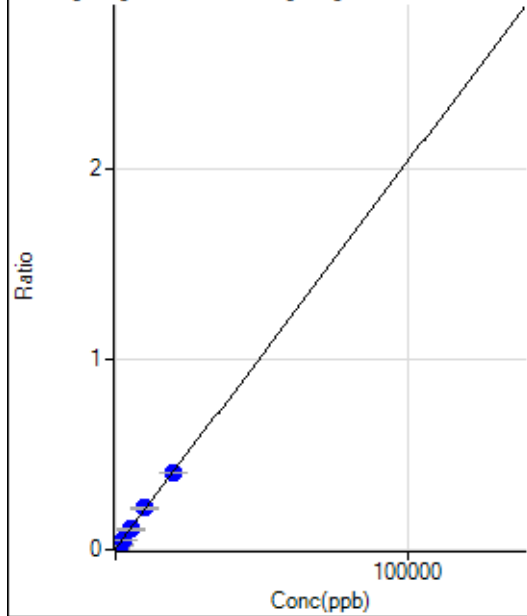
DL = 2.007

BEC = 64.69

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-1.837	1714.03	0.0048	P	8.3
2	☐	0.000	1.837	1741.81	0.0049	P	8.7
3	☐	1000.000	996.203	9005.72	0.0251	P	4.2
4	☐	2500.000	2381.814	18959.68	0.0533	P	2.1
5	☐	5000.000	4993.153	35462.15	0.1065	P	1.7
6	☐	10000.000	10542.306	65102.99	0.2194	P	2.5
7	☐	20000.000	19745.522	126377.54	0.4068	P	1.1
8	☐			1363.99	0.0042	P	4.8

$$y = 2.0355E-005 * x + 0.0049$$

R = 0.9994

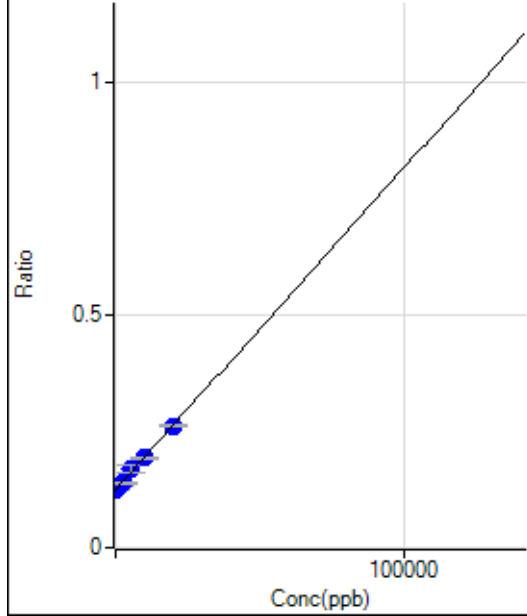
DL = 60.71

BEC = 238.3

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-84.875	555531.16	0.1244	P	1.5
2	☐	0.000	84.875	566003.24	0.1256	P	0.8
3	☐	1000.000	1342.820	603452.71	0.1343	P	1.4
4	☐	2500.000	1991.669	643450.55	0.1388	P	2.4
5	☐	5000.000	6382.866	714605.83	0.1693	P	10.6
6	☐	10000.000	9874.111	809537.60	0.1936	P	1.9
7	☐	20000.000	19763.628	1056094.33	0.2622	P	1.0
8	☐			499854.79	0.1217	P	0.8

$$y = 6.9430E-006 * x + 0.1250$$

$$R = 0.9965$$

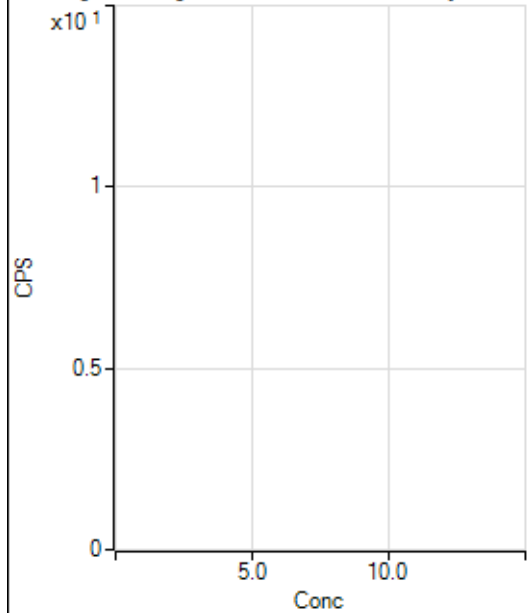
$$DL = 614.3$$

$$BEC = 1.8E+04$$

Weight: <None>

Min Conc: 0

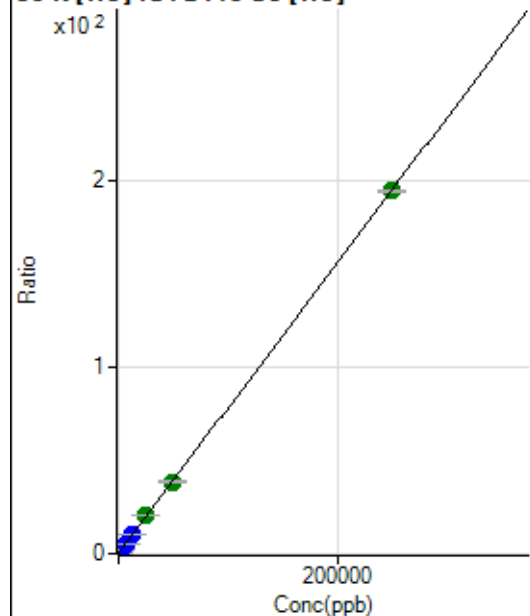
35 Cl [No Gas] No available calibration points



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

35 Cl [He] No available calibration points

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

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	75734.53	0.2126	P	1.4
2	☐	500.000	517.775	219679.60	0.6159	P	0.4
3	☐	2500.000	2679.454	824212.33	2.2994	P	1.2
4	☐	6250.000	6479.498	1869669.03	5.2590	P	1.1
5	☐	12500.000	13207.573	3496026.90	10.4990	P	1.0
6	☐	25000.000	26474.922	6180724.66	20.8320	A	2.1
7	☐	50000.000	49255.483	11983973.36	38.5741	A	1.5
8	☐	250000.00	249958.46	62998844.46	194.8871	A	0.5

$$y = 7.7883\text{E-}004 * x + 0.2126$$

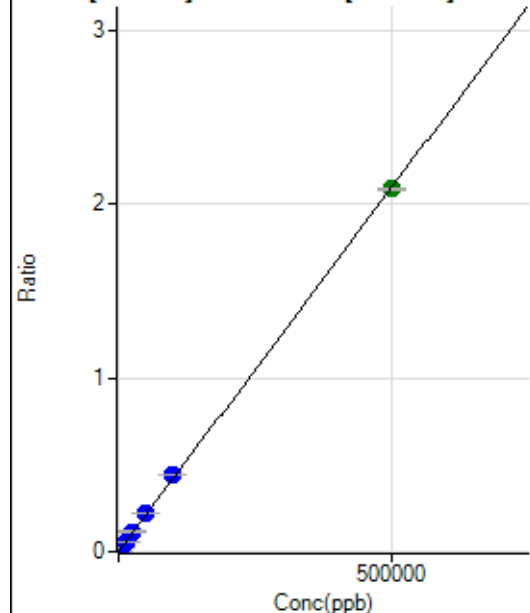
$$R = 1.0000$$

$$DL = 11.76$$

$$BEC = 273$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	233.34	0.0001	P	6.4
2	☐	500.000	529.167	10237.12	0.0023	P	1.4
3	☐	5000.000	5314.100	100358.13	0.0223	P	1.2
4	☐	12500.000	12797.871	248995.04	0.0537	P	2.6
5	☐	25000.000	27356.962	484692.39	0.1148	P	9.8
6	☐	50000.000	52358.556	918412.89	0.2196	P	3.0
7	☐	100000.00	106248.71	1794840.73	0.4456	P	1.1
8	☐	500000.00	498385.93	8587794.20	2.0902	A	0.7

$$y = 4.1939\text{E-}006 * x + 5.2257\text{E-}005$$

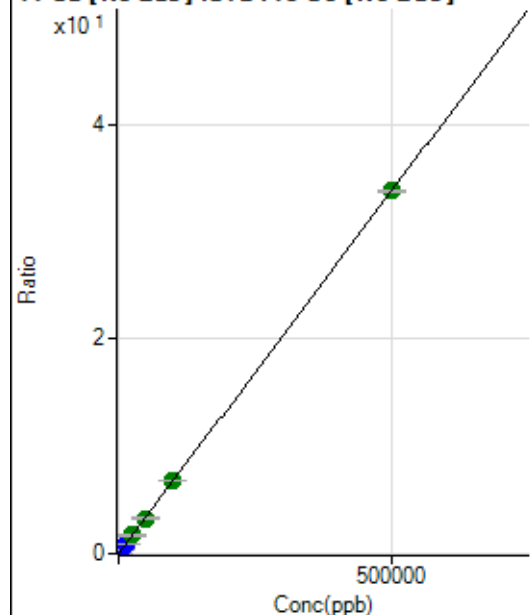
$$R = 0.9999$$

$$DL = 2.377$$

$$BEC = 12.46$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	10752.08	0.0024	P	4.9
2	☐	500.000	521.453	169789.38	0.0377	P	0.3
3	☐	5000.000	5290.955	1618354.42	0.3602	P	0.3
4	☐	12500.000	12757.678	4009135.57	0.8652	P	3.5
5	☐	25000.000	25516.595	7294194.47	1.7281	A	10.4
6	☐	50000.000	48912.716	13842543.08	3.3103	A	2.8
7	☐	100000.00	99577.154	27133207.34	6.7366	A	0.3
8	☐	500000.00	500158.09	138983641.2	33.8272	A	0.7

$$y = 6.7628\text{E-}005 * x + 0.0024$$

$$R = 1.0000$$

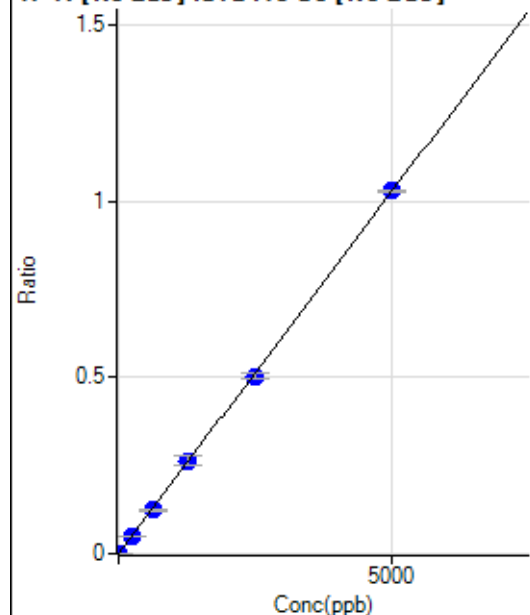
$$DL = 5.248$$

$$BEC = 35.61$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	69.45	0.0000	P	92.4
2	☐	5.000	4.868	4575.83	0.0010	P	3.7
3	☐	250.000	248.758	229619.94	0.0511	P	0.1
4	☐	625.000	600.651	571823.11	0.1234	P	3.0
5	☐	1250.000	1287.830	1116402.26	0.2645	P	10.8
6	☐	2500.000	2456.151	2109558.03	0.5045	P	3.4
7	☐	5000.000	5015.573	4149364.41	1.0302	P	0.6
8	☐			777.81	0.0002	P	8.3

$$y = 2.0540E-004 * x + 1.5480E-005$$

$$R = 0.9999$$

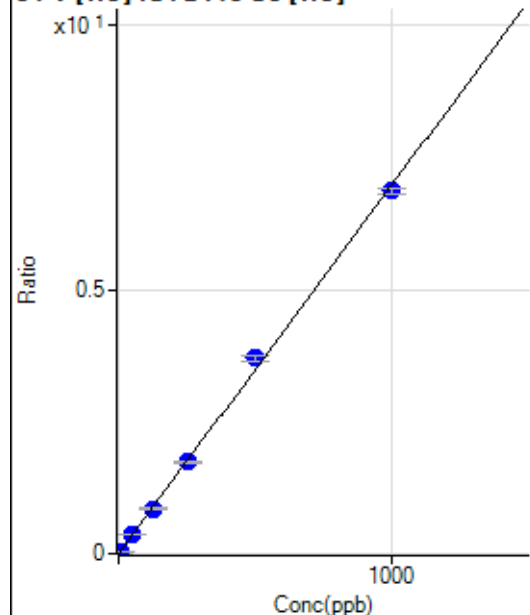
$$DL = 0.2089$$

$$BEC = 0.07537$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5.56	0.0000	P	34.4
2	☐	5.000	5.040	12527.61	0.0351	P	0.7
3	☐	50.000	49.960	124732.22	0.3480	P	0.9
4	☐	125.000	122.154	302467.91	0.8508	P	1.3
5	☐	250.000	248.921	577297.68	1.7337	P	1.2
6	☐	500.000	530.505	1096183.65	3.6949	P	2.6
7	☐	1000.000	985.375	2132156.43	6.8631	P	1.4
8	☐			280.01	0.0009	P	11.2

$$y = 0.0070 * x + 1.5586E-005$$

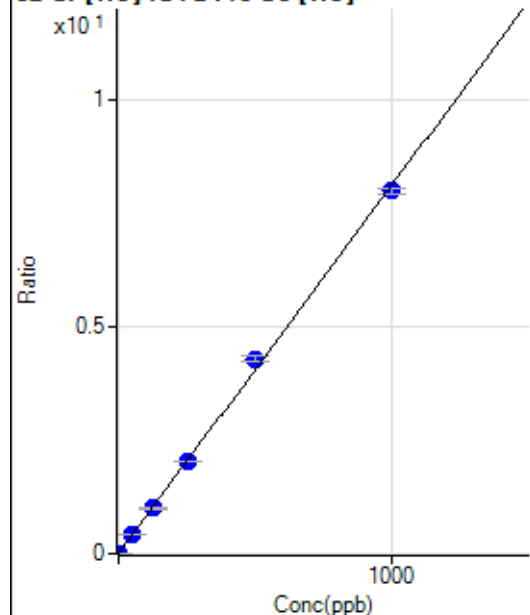
$$R = 0.9993$$

$$DL = 0.002313$$

$$BEC = 0.002238$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	901.15	0.0025	P	5.4
2	☐	2.000	1.966	6592.64	0.0185	P	1.8
3	☐	50.000	49.735	145507.75	0.4059	P	1.2
4	☐	125.000	122.722	354766.19	0.9980	P	2.1
5	☐	250.000	249.756	675395.40	2.0284	P	1.2
6	☐	500.000	529.197	1274212.86	4.2950	P	2.5
7	☐	1000.000	985.761	2484862.43	7.9983	P	1.3
8	☐			13204.89	0.0409	P	1.5

$$y = 0.0081 * x + 0.0025$$

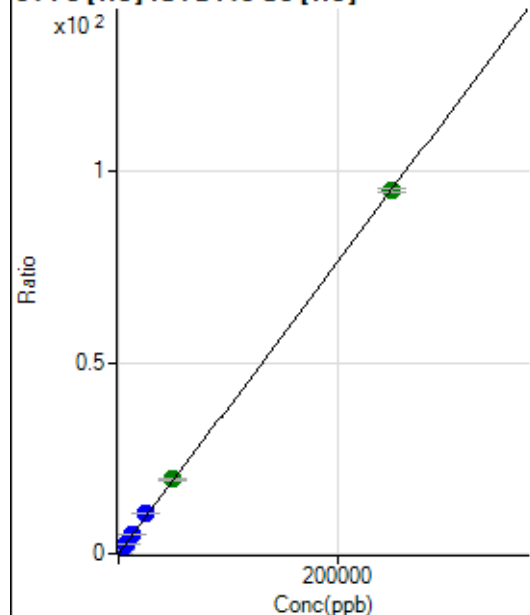
$$R = 0.9994$$

$$DL = 0.05095$$

$$BEC = 0.312$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1197.95	0.0034	P	12.5
2	☐	50.000	55.515	8738.25	0.0245	P	1.9
3	☐	2500.000	2620.708	358848.13	1.0011	P	1.2
4	☐	6250.000	6451.020	874351.70	2.4594	P	1.2
5	☐	12500.000	13106.145	1662671.66	4.9932	P	1.0
6	☐	25000.000	27853.450	3147204.83	10.6078	P	2.3
7	☐	50000.000	51199.604	6056951.43	19.4962	A	1.2
8	☐	250000.00	249438.19	30699487.57	94.9700	A	1.0

$$y = 3.8072E-004 * x + 0.0034$$

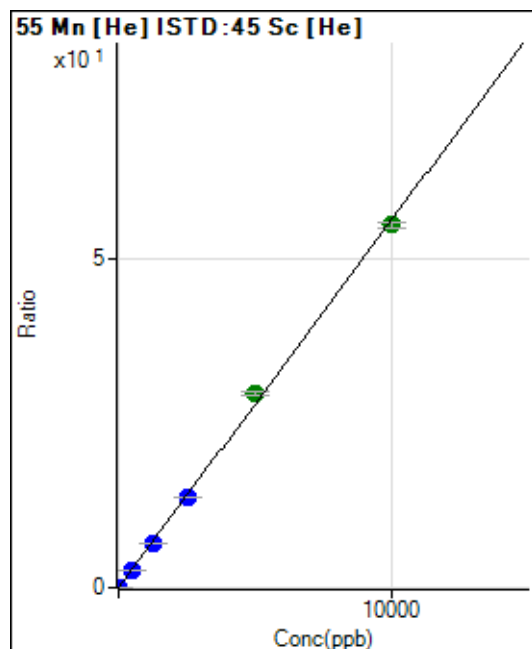
$$R = 0.9999$$

$$DL = 3.325$$

$$BEC = 8.838$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	74.44	0.0002	P	28.9
2	☐	1.000	0.993	2050.16	0.0058	P	6.1
3	☐	500.000	490.935	981797.50	2.7391	P	1.2
4	☐	1250.000	1208.625	2397310.05	6.7431	P	1.0
5	☐	2500.000	2462.542	4574821.36	13.7386	P	1.0
6	☐	5000.000	5289.509	8755400.63	29.5102	A	2.1
7	☐	10000.000	9870.235	17107465.58	55.0659	A	1.4
8	☐			9945.68	0.0308	P	1.5

$$y = 0.0056 * x + 2.0864E-004$$

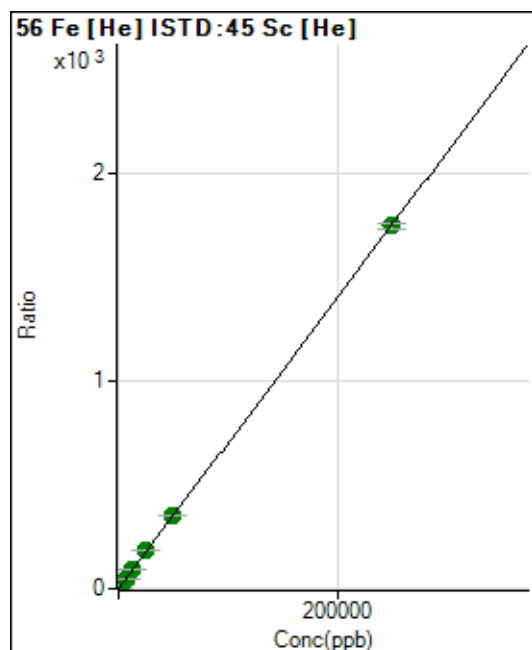
$$R = 0.9994$$

$$DL = 0.03239$$

$$BEC = 0.0374$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	7590.97	0.0213	P	3.3
2	☐	50.000	50.659	133811.29	0.3752	P	2.9
3	☐	2500.000	2520.803	6320142.91	17.6323	A	0.9
4	☐	6250.000	6173.149	15340051.27	43.1486	A	1.8
5	☐	12500.000	12633.457	29397297.41	88.2820	A	0.6
6	☐	25000.000	26852.060	55665534.12	187.6169	A	2.1
7	☐	50000.000	50271.663	109117595.0	351.2324	A	1.4
8	☐	250000.00	249755.50	564025438.5	1,744.879	A	1.4

$$y = 0.0070 * x + 0.0213$$

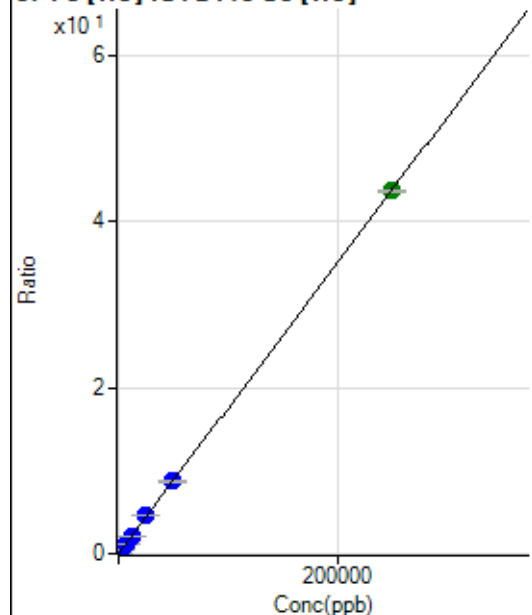
$$R = 1.0000$$

$$DL = 0.3045$$

$$BEC = 3.051$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	274.08	0.0008	P	16.1
2	☐	50.000	50.549	3430.08	0.0096	P	4.7
3	☐	2500.000	2512.147	157900.83	0.4405	P	0.4
4	☐	6250.000	6174.077	384481.25	1.0815	P	1.7
5	☐	12500.000	12517.298	729872.24	2.1918	P	0.6
6	☐	25000.000	26712.383	1387487.05	4.6766	P	2.3
7	☐	50000.000	49733.955	2704856.28	8.7064	P	1.2
8	☐	250000.00	249882.88	14139528.09	43.7413	A	0.5

$$y = 1.7504\text{E-}004 * x + 7.6905\text{E-}004$$

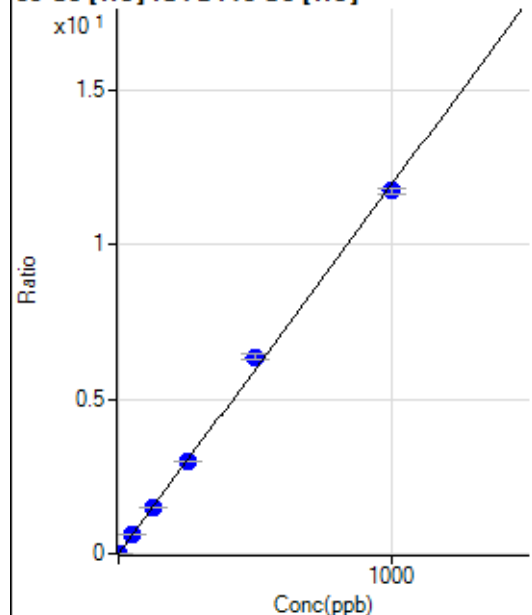
$$R = 1.0000$$

$$DL = 2.12$$

$$BEC = 4.393$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	46.67	0.0001	P	43.9
2	☐	1.000	1.002	4311.78	0.0121	P	3.8
3	☐	50.000	50.659	216677.82	0.6045	P	1.0
4	☐	125.000	124.158	526631.34	1.4813	P	1.2
5	☐	250.000	250.736	996106.06	2.9914	P	1.0
6	☐	500.000	532.787	1885593.43	6.3563	P	3.1
7	☐	1000.000	983.495	3645186.72	11.7332	P	1.3
8	☐			5851.22	0.0181	P	1.3

$$y = 0.0119 * x + 1.3118\text{E-}004$$

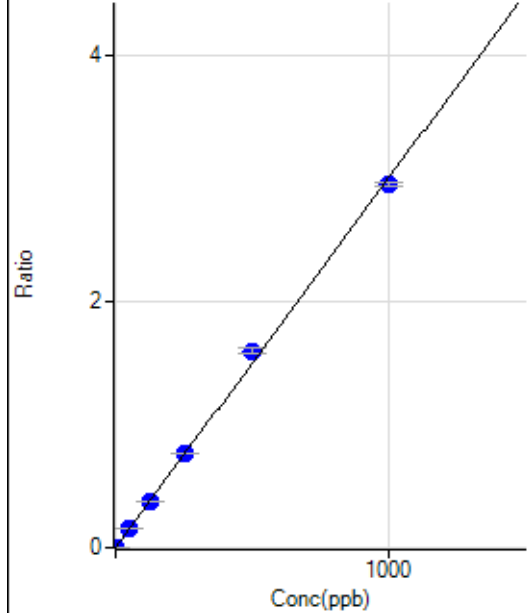
$$R = 0.9992$$

$$DL = 0.01448$$

$$BEC = 0.011$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	97.78	0.0003	P	5.5
2	☐	1.000	1.065	1238.95	0.0035	P	5.9
3	☐	50.000	51.487	55562.41	0.1550	P	1.2
4	☐	125.000	126.132	134848.00	0.3793	P	1.5
5	☐	250.000	253.622	253875.67	0.7624	P	0.7
6	☐	500.000	533.352	475565.86	1.6031	P	2.9
7	☐	1000.000	982.202	917084.11	2.9519	P	1.0
8	☐			3540.47	0.0110	P	7.7

$$y = 0.0030 * x + 2.7452E-004$$

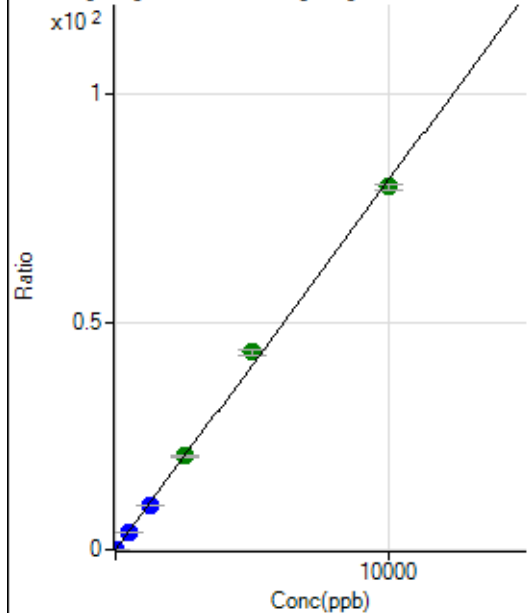
$$R = 0.9992$$

$$DL = 0.0151$$

$$BEC = 0.09135$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1355.63	0.0038	P	0.9
2	☐	2.000	2.110	7459.74	0.0209	P	2.1
3	☐	500.000	490.347	1427003.85	3.9811	P	0.8
4	☐	1250.000	1203.070	3470540.71	9.7621	P	1.2
5	☐	2500.000	2532.476	6840989.83	20.5452	A	1.4
6	☐	5000.000	5348.469	12870777.59	43.3862	A	2.9
7	☐	10000.000	9823.996	24756680.74	79.6880	A	1.4
8	☐			16722.95	0.0517	P	1.6

$$y = 0.0081 * x + 0.0038$$

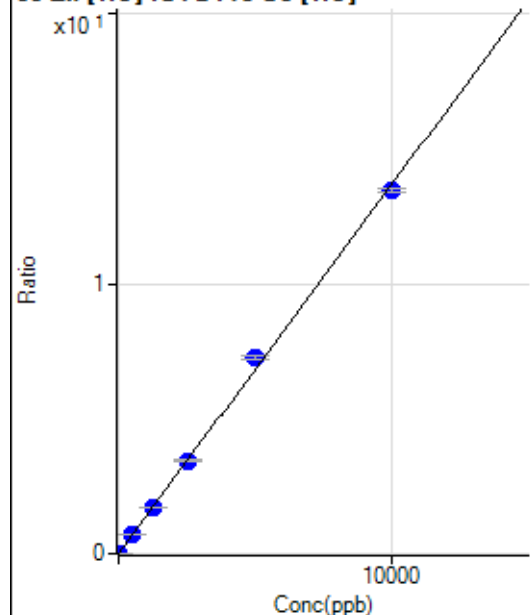
$$R = 0.9991$$

$$DL = 0.01246$$

$$BEC = 0.4692$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	123.34	0.0003	P	8.0
2	☐	2.000	2.014	1106.72	0.0031	P	4.2
3	☐	500.000	503.042	246701.43	0.6882	P	0.4
4	☐	1250.000	1235.939	600999.70	1.6905	P	0.8
5	☐	2500.000	2519.339	1147308.49	3.4455	P	0.9
6	☐	5000.000	5320.655	2158664.26	7.2763	P	2.7
7	☐	10000.000	9836.443	4179073.72	13.4515	P	1.1
8	☐			5604.46	0.0173	P	3.2

$$y = 0.0014 * x + 3.4639E-004$$

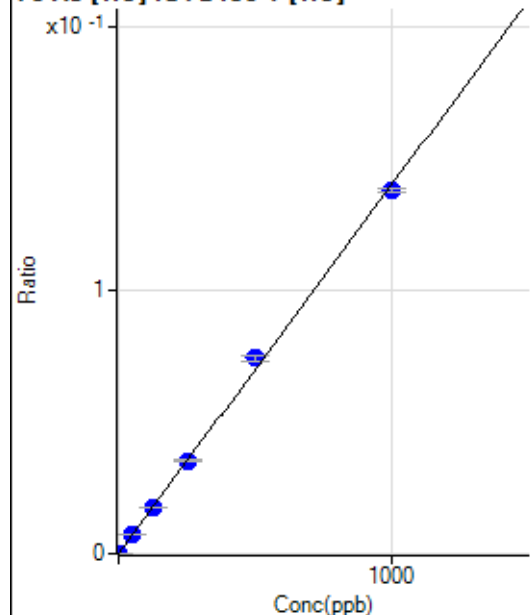
$$R = 0.9992$$

$$DL = 0.06045$$

$$BEC = 0.2533$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	15.43	0.0000	P	42.3
2	☐	1.000	1.052	360.50	0.0002	P	8.3
3	☐	50.000	51.220	17100.19	0.0072	P	1.5
4	☐	125.000	124.722	41326.24	0.0175	P	1.3
5	☐	250.000	252.206	78915.75	0.0353	P	1.2
6	☐	500.000	530.367	149171.38	0.0742	P	3.0
7	☐	1000.000	984.239	292893.27	0.1377	P	0.9
8	☐			133.96	0.0001	P	12.6

$$y = 1.3993E-004 * x + 6.5867E-006$$

$$R = 0.9993$$

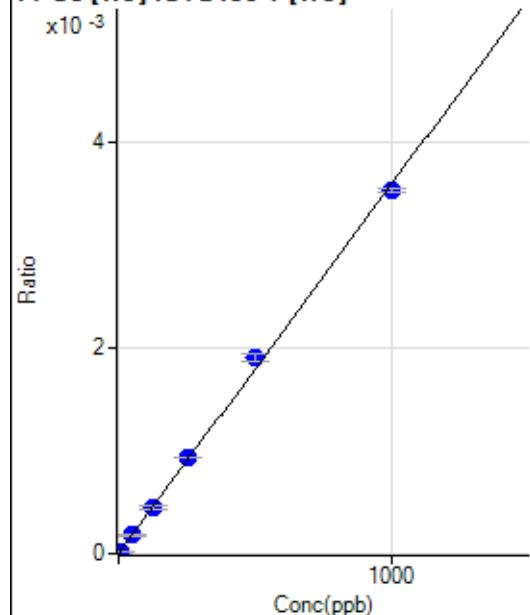
$$DL = 0.05967$$

$$BEC = 0.04707$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3.33	0.0000	P	99.6
2	☐	5.000	6.191	55.56	0.0000	P	8.1
3	☐	50.000	50.081	432.23	0.0002	P	15.2
4	☐	125.000	126.219	1076.72	0.0005	P	7.7
5	☐	250.000	259.771	2090.17	0.0009	P	1.4
6	☐	500.000	530.832	3836.10	0.0019	P	3.9
7	☐	1000.000	981.979	7507.57	0.0035	P	1.1
8	☐			4.44	0.0000	P	114.

$$y = 3.5936\text{E-}006 * x + 1.4259\text{E-}006$$

$$R = 0.9992$$

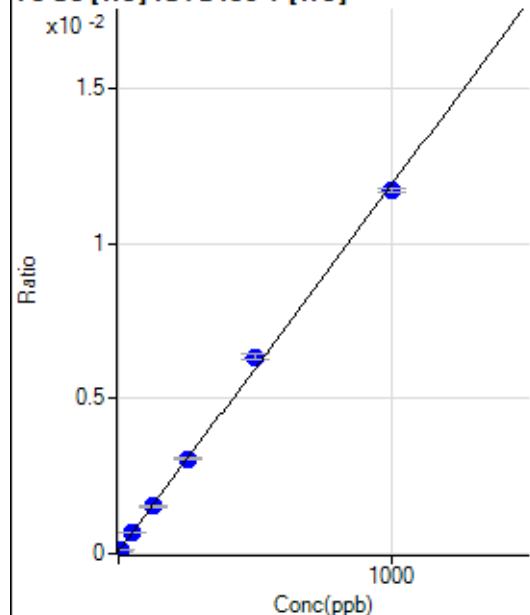
$$DL = 1.185$$

$$BEC = 0.3968$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	169.14	0.0001	P	5.8
2	☐	5.000	5.689	326.55	0.0001	P	6.4
3	☐	50.000	52.400	1646.40	0.0007	P	2.9
4	☐	125.000	123.913	3632.57	0.0015	P	3.5
5	☐	250.000	251.733	6803.48	0.0030	P	1.8
6	☐	500.000	531.552	12755.63	0.0063	P	2.7
7	☐	1000.000	983.803	24847.12	0.0117	P	1.1
8	☐			152.47	0.0001	P	4.9

$$y = 1.1803\text{E-}005 * x + 7.2146\text{E-}005$$

$$R = 0.9993$$

$$DL = 1.057$$

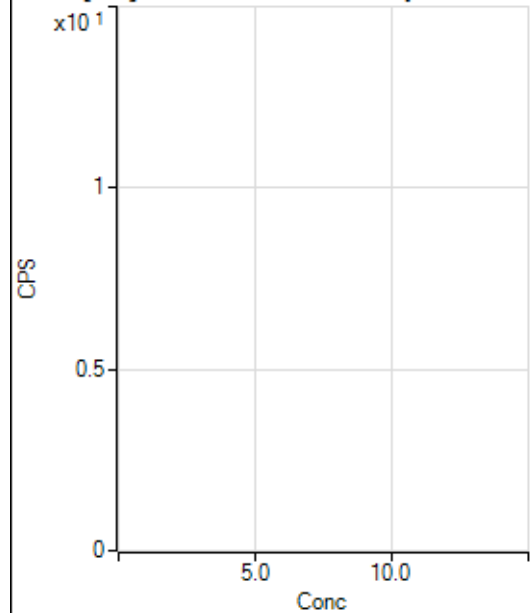
$$BEC = 6.113$$

Weight: <None>

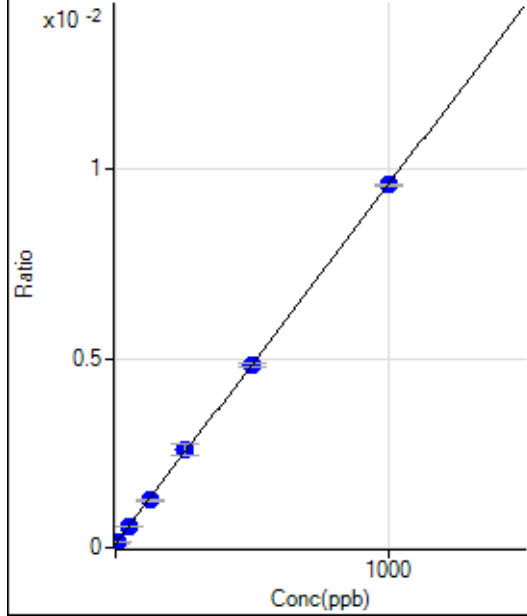
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6818.46		P	5.1
2	☐			6968.54		P	1.1
3	☐			6762.88		P	0.7
4	☐			6637.81		P	4.8
5	☐			6446.05		P	6.7
6	☐			5670.70		P	2.6
7	☐			5642.92		P	3.2
8	☐			6212.61		P	4.8

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			120.12		P	22.1
2	☐			103.44		P	11.2
3	☐			156.83		P	31.5
4	☐			116.79		P	51.7
5	☐			70.07		P	14.3
6	☐			80.08		P	21.7
7	☐			30.03		P	100.
8	☐			126.80		P	52.6

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1038.90	0.0001	P	11.1
2	☐	5.000	3.678	1401.12	0.0001	P	5.7
3	☐	50.000	49.692	5872.55	0.0006	P	1.8
4	☐	125.000	122.367	13277.85	0.0013	P	4.8
5	☐	250.000	263.583	25049.07	0.0026	P	11.6
6	☐	500.000	496.467	46260.50	0.0048	P	2.6
7	☐	1000.000	998.722	90168.12	0.0096	P	0.6
8	☐			771.60	0.0001	P	16.1

$$y = 9.4935E-006 * x + 1.0315E-004$$

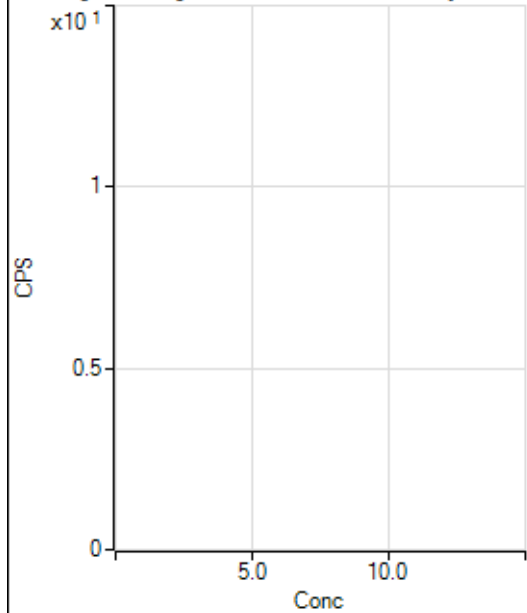
$$R = 0.9999$$

$$DL = 3.634$$

$$BEC = 10.87$$

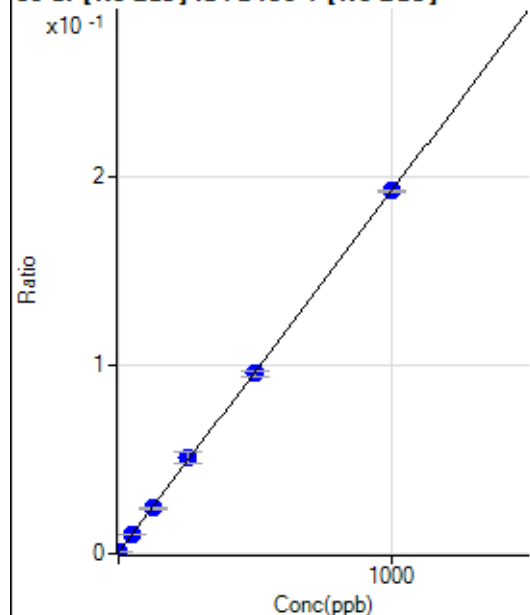
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			4242.88		P	3.2
2	☐			4479.62		P	2.0
3	☐			4478.52		P	4.2
4	☐			4277.34		P	1.1
5	☐			4215.09		P	3.1
6	☐			4011.71		P	5.3
7	☐			3998.37		P	4.1
8	☐			4050.61		P	4.5

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	7196.44	0.0007	P	3.4
2	☐	1.000	0.880	8958.54	0.0009	P	4.7
3	☐	50.000	50.425	106162.25	0.0104	P	0.5
4	☐	125.000	121.849	253078.61	0.0241	P	3.8
5	☐	250.000	261.646	489727.75	0.0509	P	11.5
6	☐	500.000	494.480	918358.68	0.0956	P	3.2
7	☐	1000.000	1000.221	1812878.03	0.1927	P	0.3
8	☐			16657.30	0.0017	P	1.5

$$y = 1.9194\text{E-}004 * x + 7.1389\text{E-}004$$

$$R = 0.9999$$

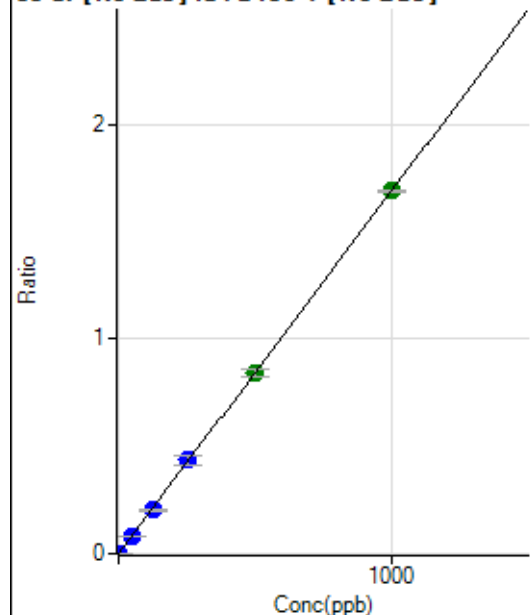
$$DL = 0.3746$$

$$BEC = 3.719$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	127.78	0.0000	P	33.3
2	☐	1.000	0.979	16907.55	0.0017	P	0.9
3	☐	50.000	49.856	860569.44	0.0842	P	0.9
4	☐	125.000	119.898	2126944.73	0.2026	P	4.5
5	☐	250.000	257.239	4180127.52	0.4346	P	11.1
6	☐	500.000	496.948	8062210.86	0.8396	A	4.0
7	☐	1000.000	1000.361	15900635.95	1.6902	A	0.2
8	☐			93080.31	0.0097	P	0.6

$$y = 0.0017 * x + 1.2679\text{E-}005$$

$$R = 0.9999$$

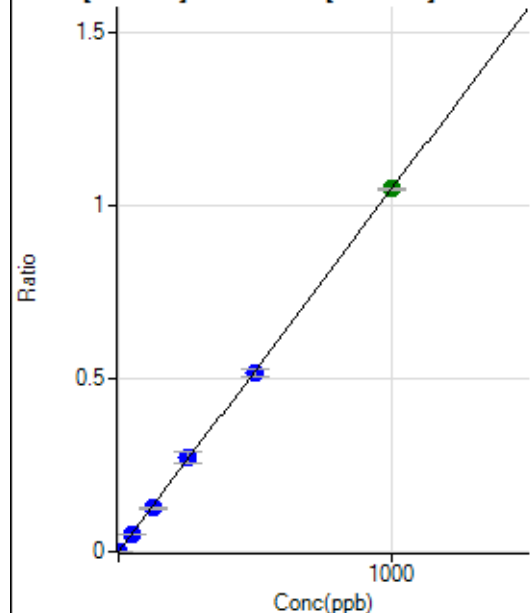
$$DL = 0.007507$$

$$BEC = 0.007505$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	486.14	0.0000	P	11.0
2	☐	1.000	0.952	10618.04	0.0010	P	2.6
3	☐	50.000	49.456	530372.02	0.0519	P	0.6
4	☐	125.000	120.410	1326671.11	0.1263	P	3.6
5	☐	250.000	260.472	2626745.07	0.2732	P	11.8
6	☐	500.000	494.219	4978223.33	0.5184	P	3.7
7	☐	1000.000	1000.873	9876724.27	1.0498	A	0.8
8	☐			3703.34	0.0004	P	6.9

$$y = 0.0010 * x + 4.8197E-005$$

$$R = 0.9999$$

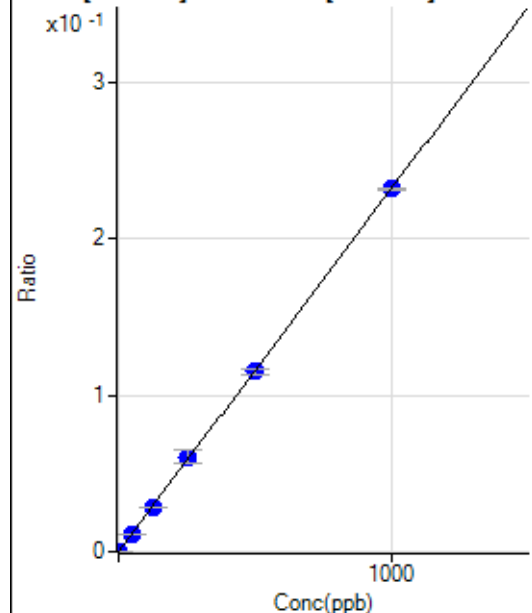
$$DL = 0.01518$$

$$BEC = 0.04595$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	111.11	0.0000	P	56.7
2	☐	1.000	0.946	2339.15	0.0002	P	3.0
3	☐	50.000	49.988	118626.43	0.0116	P	0.6
4	☐	125.000	121.394	296016.60	0.0282	P	3.0
5	☐	250.000	262.067	584624.06	0.0608	P	12.2
6	☐	500.000	496.569	1106933.65	0.1153	P	3.2
7	☐	1000.000	999.150	2181752.48	0.2319	P	0.5
8	☐			750.04	0.0001	P	12.5

$$y = 2.3209E-004 * x + 1.1016E-005$$

$$R = 0.9999$$

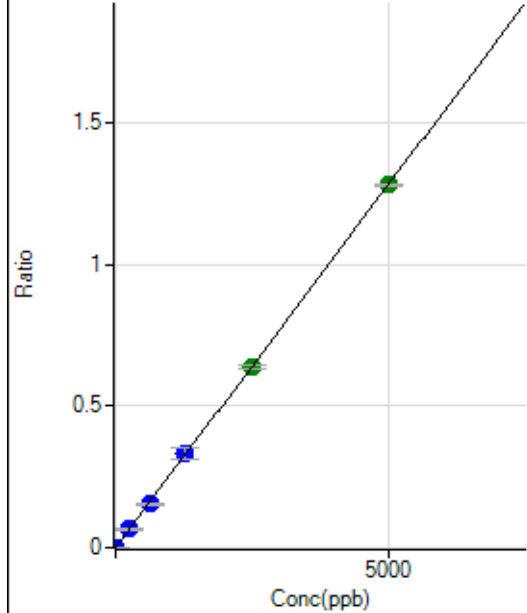
$$DL = 0.08078$$

$$BEC = 0.04746$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	130.56	0.0000	P	13.3
2	☐	5.000	4.967	13067.29	0.0013	P	1.0
3	☐	250.000	251.719	660044.70	0.0646	P	0.9
4	☐	625.000	606.608	1634738.11	0.1557	P	4.1
5	☐	1250.000	1307.243	3225361.59	0.3355	P	11.7
6	☐	2500.000	2487.142	6130764.33	0.6383	A	2.9
7	☐	5000.000	4994.331	12058754.35	1.2818	A	0.6
8	☐			4039.56	0.0004	P	6.7

$$y = 2.5664\text{E-}004 * x + 1.2952\text{E-}005$$

$$R = 0.9999$$

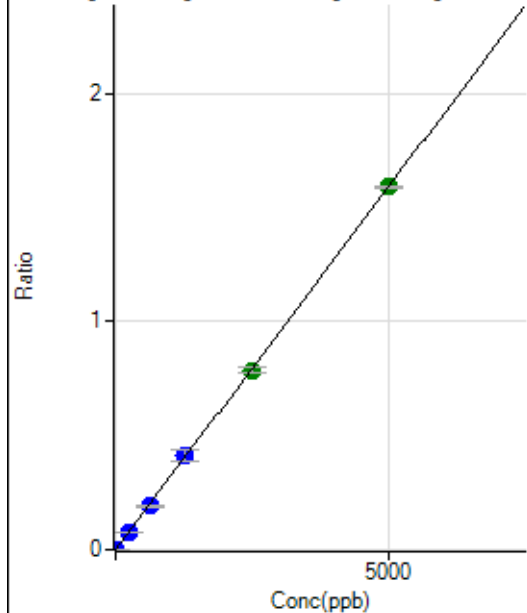
$$DL = 0.02015$$

$$BEC = 0.05047$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	27.78	0.0000	P	63.3
2	☐	5.000	4.915	15911.95	0.0016	P	1.7
3	☐	250.000	250.885	816028.25	0.0799	P	0.5
4	☐	625.000	603.655	2018310.53	0.1922	P	3.6
5	☐	1250.000	1305.699	3994757.99	0.4157	P	12.4
6	☐	2500.000	2477.344	7575155.73	0.7888	A	3.3
7	☐	5000.000	5000.027	14977319.95	1.5920	A	0.2
8	☐			4981.56	0.0005	P	7.0

$$y = 3.1840\text{E-}004 * x + 2.7649\text{E-}006$$

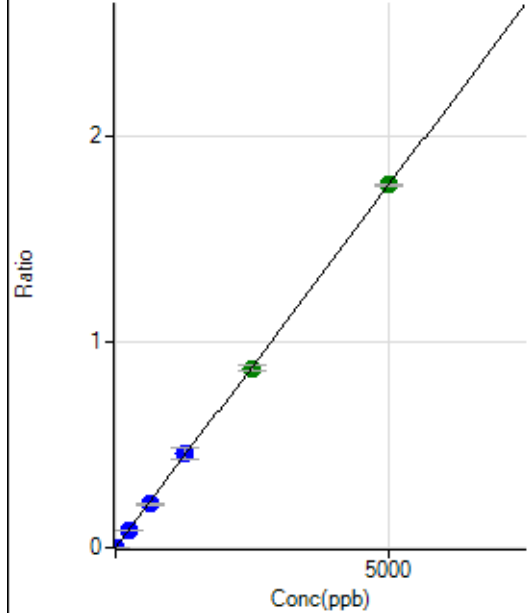
$$R = 0.9999$$

$$DL = 0.01648$$

$$BEC = 0.008684$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	100.00	0.0000	P	38.1
2	☐	5.000	4.910	17686.27	0.0017	P	0.9
3	☐	250.000	249.476	899485.62	0.0881	P	0.3
4	☐	625.000	603.054	2235095.60	0.2128	P	3.3
5	☐	1250.000	1295.641	4395694.15	0.4573	P	11.8
6	☐	2500.000	2469.715	8370796.63	0.8716	A	3.2
7	☐	5000.000	5006.502	16622695.51	1.7669	A	0.3
8	☐			6976.86	0.0007	P	4.6

$$y = 3.5292\text{E-}004 * x + 9.9248\text{E-}006$$

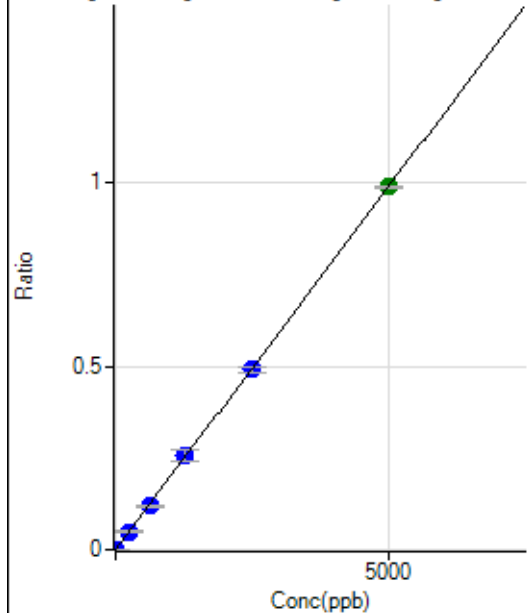
$$R = 0.9999$$

$$DL = 0.03211$$

$$BEC = 0.02812$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	16.67	0.0000	P	101.
2	☐	5.000	4.813	9689.61	0.0010	P	2.5
3	☐	250.000	251.151	508077.57	0.0497	P	0.5
4	☐	625.000	607.048	1262334.91	0.1202	P	3.7
5	☐	1250.000	1298.462	2472651.38	0.2571	P	11.4
6	☐	2500.000	2485.047	4726044.94	0.4921	P	3.4
7	☐	5000.000	4997.548	9310737.45	0.9897	A	0.7
8	☐			3058.73	0.0003	P	1.4

$$y = 1.9803\text{E-}004 * x + 1.6668\text{E-}006$$

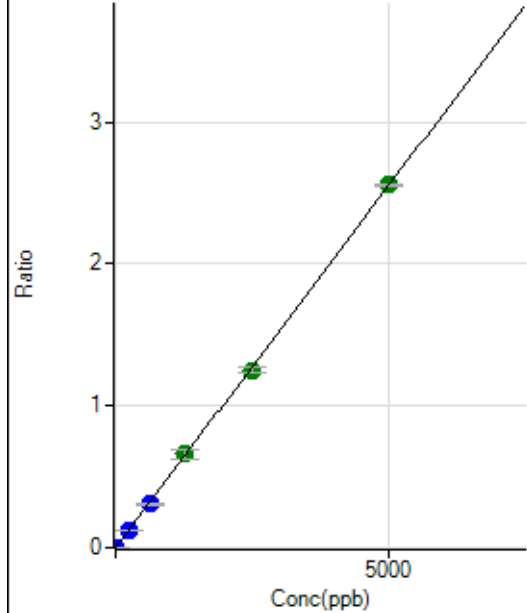
$$R = 0.9999$$

$$DL = 0.02554$$

$$BEC = 0.008417$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	83.33	0.0000	P	47.6
2	☐	5.000	4.870	25289.53	0.0025	P	1.3
3	☐	250.000	250.654	1305875.73	0.1278	P	0.5
4	☐	625.000	607.319	3252070.99	0.3097	P	4.0
5	☐	1250.000	1290.999	6330338.42	0.6584	A	11.6
6	☐	2500.000	2453.302	12015965.46	1.2512	A	3.1
7	☐	5000.000	5015.277	24062213.21	2.5577	A	0.8
8	☐			7813.47	0.0008	P	5.5

$$y = 5.0999\text{E-}004 * x + 8.3112\text{E-}006$$

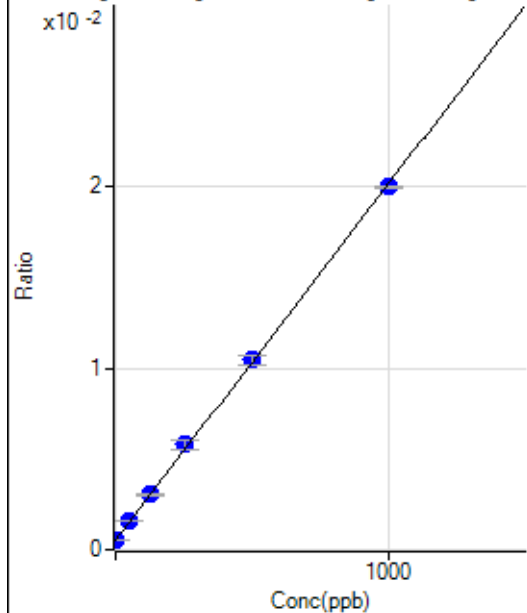
$$R = 0.9999$$

$$DL = 0.02327$$

$$BEC = 0.0163$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4256.30	0.0005	P	3.9
2	☐	1.000	2.211	4675.89	0.0006	P	2.6
3	☐	50.000	53.434	13228.76	0.0016	P	0.4
4	☐	125.000	128.134	26530.84	0.0030	P	2.6
5	☐	250.000	268.180	47212.28	0.0058	P	8.6
6	☐	500.000	507.059	87004.60	0.0105	P	5.0
7	☐	1000.000	991.361	164309.85	0.0200	P	0.2
8	☐			4286.86	0.0005	P	4.3

$$y = 1.9635\text{E-}005 * x + 5.1879\text{E-}004$$

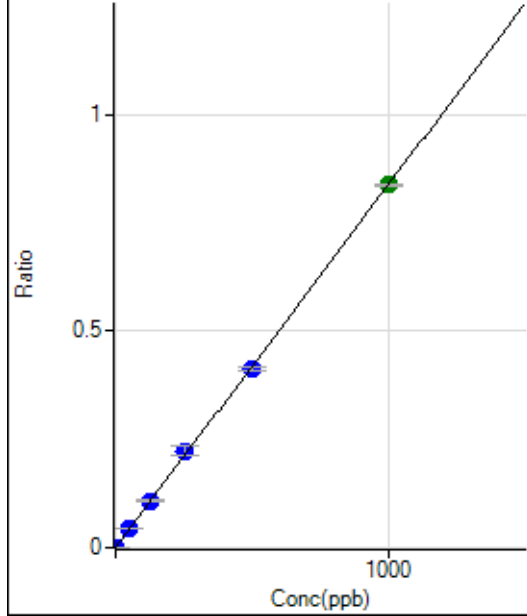
$$R = 0.9998$$

$$DL = 3.12$$

$$BEC = 26.42$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	50.00	0.0000	P	44.4
2	☐	1.000	1.038	7285.37	0.0009	P	4.8
3	☐	50.000	52.937	374270.85	0.0444	P	1.6
4	☐	125.000	127.603	934642.29	0.1069	P	3.4
5	☐	250.000	266.208	1819408.72	0.2231	P	9.8
6	☐	500.000	492.553	3428979.03	0.4127	P	3.2
7	☐	1000.000	999.199	6883641.99	0.8372	A	0.3
8	☐			2119.66	0.0003	P	3.2

$$y = 8.3791\text{E-}004 * x + 6.1002\text{E-}006$$

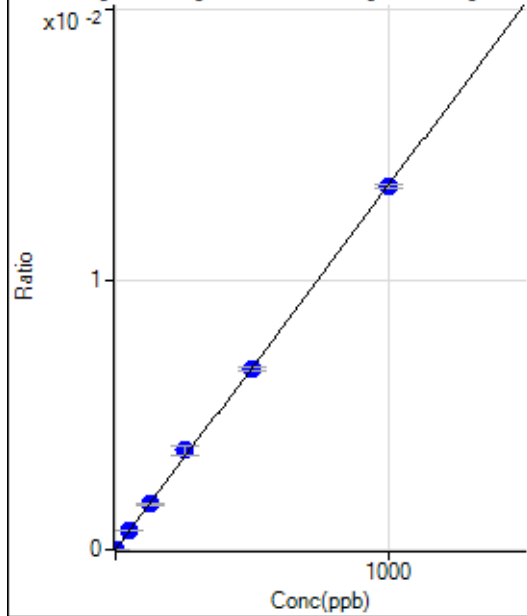
$$R = 0.9998$$

$$DL = 0.009698$$

$$BEC = 0.00728$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	36.11	0.0000	P	18.1
2	☐	1.000	1.124	162.51	0.0000	P	22.9
3	☐	50.000	53.779	6158.36	0.0007	P	3.3
4	☐	125.000	125.302	14814.80	0.0017	P	4.0
5	☐	250.000	271.911	29956.61	0.0037	P	9.9
6	☐	500.000	496.966	55753.17	0.0067	P	2.7
7	☐	1000.000	995.812	110493.00	0.0134	P	1.1
8	☐			112.50	0.0000	P	10.1

$$y = 1.3491\text{E-}005 * x + 4.4045\text{E-}006$$

$$R = 0.9997$$

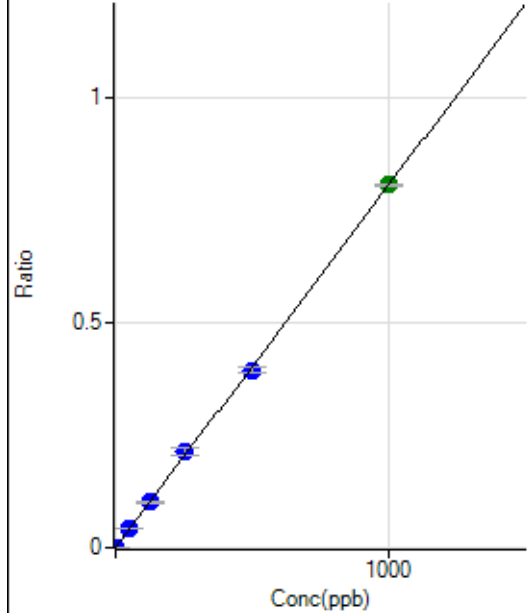
$$DL = 0.177$$

$$BEC = 0.3265$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	11.11	0.0000	P	43.2
2	☐	1.000	1.031	6915.77	0.0008	P	3.4
3	☐	50.000	52.547	357212.46	0.0423	P	0.6
4	☐	125.000	125.407	883297.58	0.1010	P	3.2
5	☐	250.000	264.608	1739537.91	0.2132	P	9.2
6	☐	500.000	489.750	3278706.30	0.3946	P	2.8
7	☐	1000.000	1001.295	6633065.34	0.8068	A	0.4
8	☐			1916.84	0.0002	P	1.3

$$y = 8.0573\text{E-}004 * x + 1.3540\text{E-}006$$

$$R = 0.9998$$

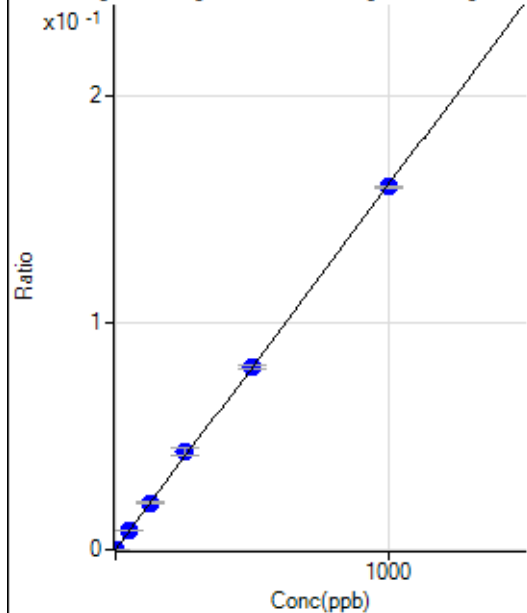
$$DL = 0.00218$$

$$BEC = 0.00168$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	414.24	0.0001	P	5.1
2	☐	1.000	1.284	2134.53	0.0003	P	5.3
3	☐	50.000	53.498	72927.38	0.0086	P	1.2
4	☐	125.000	127.556	179536.38	0.0205	P	3.9
5	☐	250.000	269.490	353744.21	0.0433	P	8.6
6	☐	500.000	500.724	668730.24	0.0805	P	2.9
7	☐	1000.000	994.271	1313553.32	0.1598	P	0.4
8	☐			976.35	0.0001	P	6.0

$$y = 1.6064\text{E-}004 * x + 5.0486\text{E-}005$$

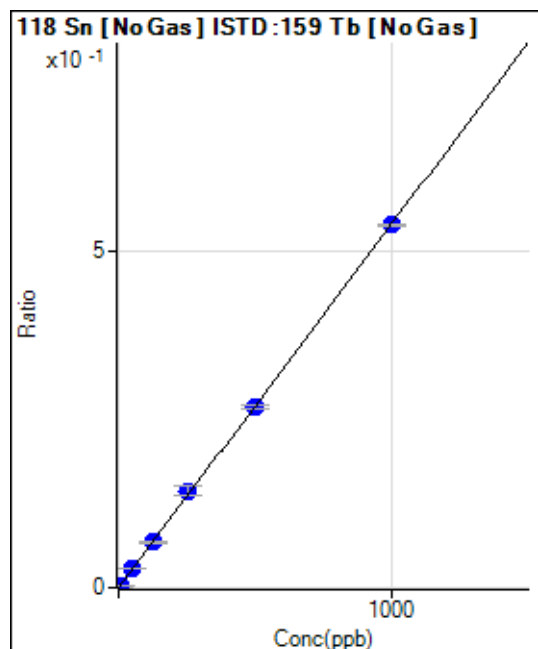
$$R = 0.9998$$

$$DL = 0.04762$$

$$BEC = 0.3143$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	441.69	0.0001	P	9.0
2	☐	5.000	5.209	23789.98	0.0029	P	1.7
3	☐	50.000	52.082	237242.54	0.0281	P	0.5
4	☐	125.000	125.014	589379.38	0.0674	P	2.9
5	☐	250.000	265.269	1166177.98	0.1430	P	10.1
6	☐	500.000	496.436	2223160.81	0.2676	P	2.8
7	☐	1000.000	997.858	4421379.74	0.5378	P	0.8
8	☐			2641.98	0.0003	P	5.8

$$y = 5.3887\text{E-}004 * x + 5.3869\text{E-}005$$

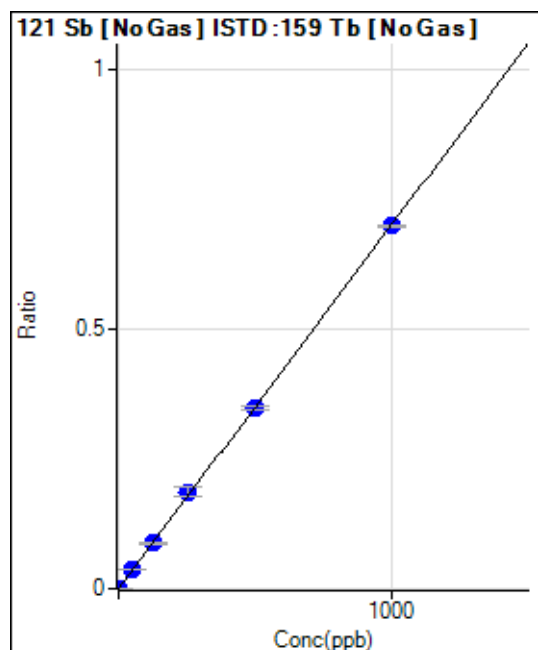
$$R = 0.9999$$

$$DL = 0.02696$$

$$BEC = 0.09997$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	75.00	0.0000	P	23.1
2	☐	2.000	2.118	12411.35	0.0015	P	5.5
3	☐	50.000	51.558	304791.37	0.0361	P	0.9
4	☐	125.000	125.023	765599.95	0.0876	P	3.6
5	☐	250.000	264.830	1513201.76	0.1855	P	9.8
6	☐	500.000	497.414	2895194.64	0.3484	P	2.8
7	☐	1000.000	997.504	5745023.61	0.6988	P	0.7
8	☐			3553.32	0.0004	P	2.6

$$y = 7.0050\text{E-}004 * x + 9.1553\text{E-}006$$

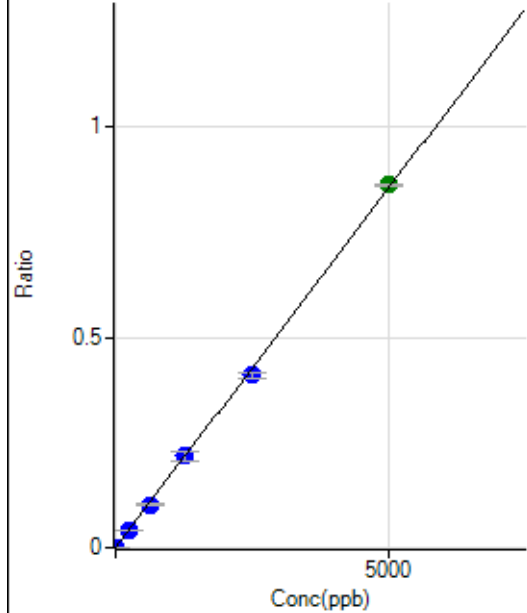
$$R = 0.9999$$

$$DL = 0.00906$$

$$BEC = 0.01307$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	8.33	0.0000	P	0.9
2	☐	10.000	10.002	14218.75	0.0017	P	1.9
3	☐	250.000	250.694	361346.71	0.0428	P	0.3
4	☐	625.000	601.767	898613.01	0.1028	P	3.7
5	☐	1250.000	1273.326	1774236.76	0.2175	P	9.9
6	☐	2500.000	2399.322	3405601.03	0.4099	P	3.2
7	☐	5000.000	5047.377	7089642.78	0.8623	A	0.6
8	☐			2566.97	0.0003	P	11.9

$$y = 1.7084\text{E-}004 * x + 1.0155\text{E-}006$$

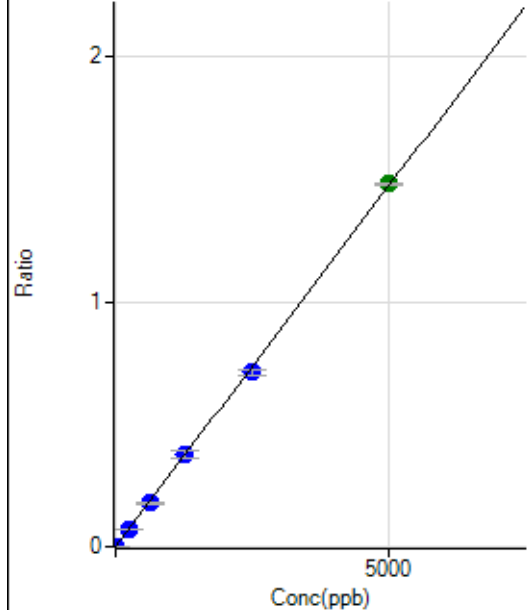
$$R = 0.9997$$

$$DL = 0.000161$$

$$BEC = 0.005944$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	30.56	0.0000	P	30.7
2	☐	10.000	10.236	25073.10	0.0030	P	3.1
3	☐	250.000	249.429	619019.22	0.0734	P	0.3
4	☐	625.000	603.539	1551703.01	0.1775	P	3.8
5	☐	1250.000	1283.943	3080837.89	0.3777	P	9.5
6	☐	2500.000	2420.653	5915921.75	0.7120	P	2.9
7	☐	5000.000	5033.898	12173810.00	1.4807	A	0.4
8	☐			4100.72	0.0005	P	4.3

$$y = 2.9414\text{E-}004 * x + 3.7194\text{E-}006$$

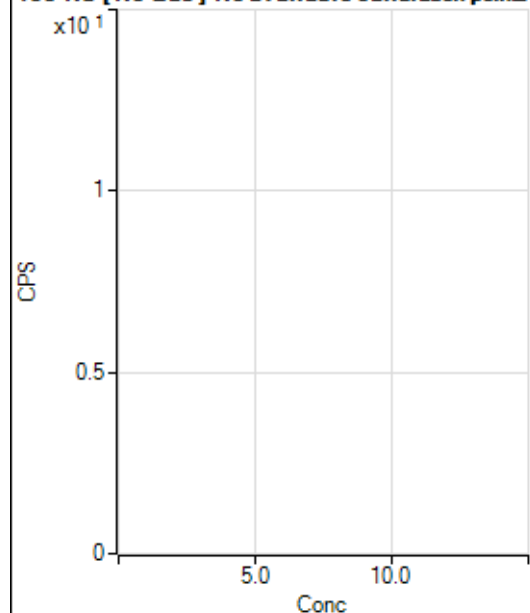
$$R = 0.9998$$

$$DL = 0.01164$$

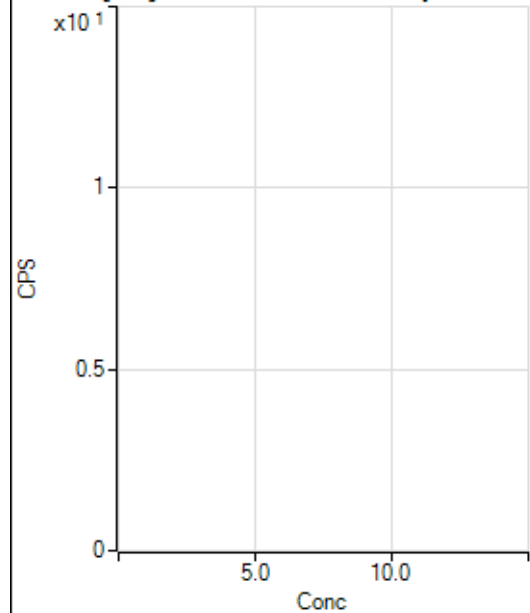
$$BEC = 0.01264$$

Weight: <None>

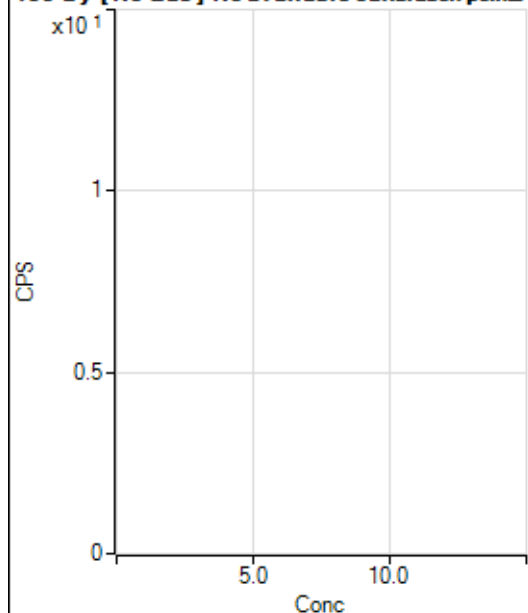
Min Conc: 0

150 Nd [No Gas] No available calibration points

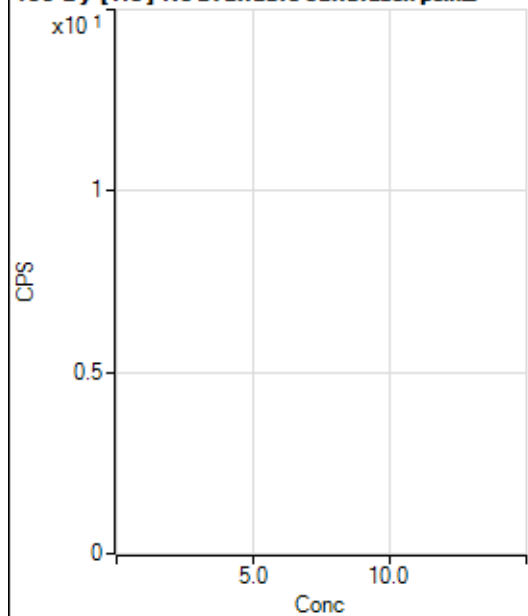
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6.67		P	173.
2	☐			6.67		P	100.
3	☐			31.11		P	53.9
4	☐			68.89		P	24.4
5	☐			184.45		P	23.2
6	☐			311.13		P	19.4
7	☐			477.80		P	7.7
8	☐			40.00		P	16.7

150 Nd [He] No available calibration points

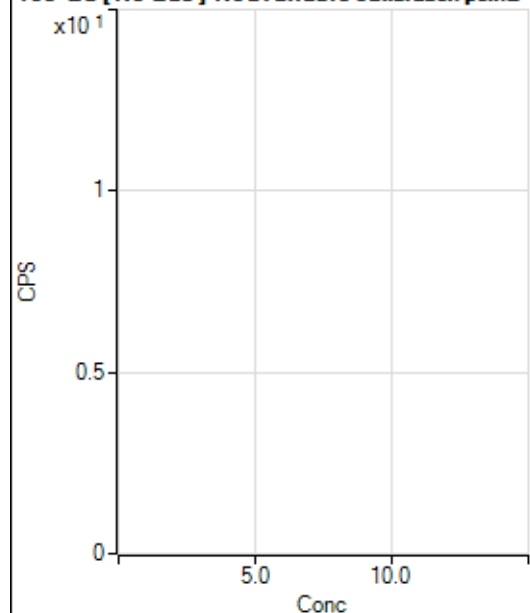
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	173.
2	☐			1.11		P	173.
3	☐			6.67		P	50.0
4	☐			13.33		P	66.1
5	☐			40.00		P	25.0
6	☐			48.89		P	27.5
7	☐			81.11		P	13.2
8	☐			15.56		P	32.7

156 Dy [No Gas] No available calibration points

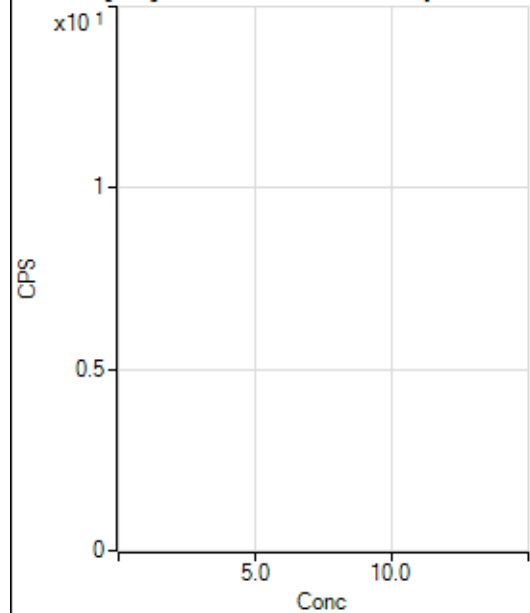
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.33		P	100.
2	☐			5.56		P	173.
3	☐			22.22		P	43.3
4	☐			52.78		P	39.7
5	☐			108.33		P	26.6
6	☐			261.12		P	4.9
7	☐			436.13		P	11.2
8	☐			1716.82		P	6.7

156 Dy [He] No available calibration points

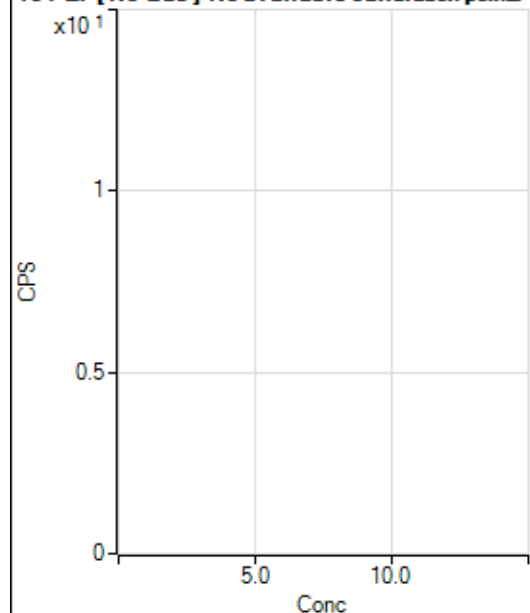
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			7.78		P	65.5
2	☐			14.45		P	48.0
3	☐			23.33		P	28.6
4	☐			45.56		P	11.2
5	☐			95.56		P	17.2
6	☐			130.00		P	15.4
7	☐			291.12		P	3.7
8	☐			1138.95		P	1.1

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

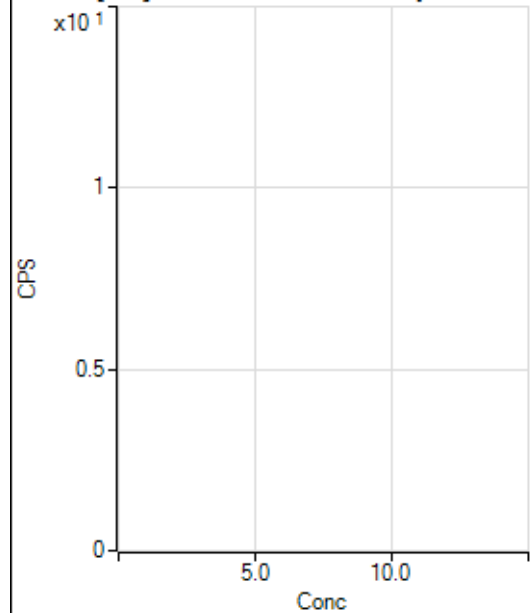
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			50.00		P	50.0
2	☐			63.89		P	19.9
3	☐			69.45		P	25.0
4	☐			125.00		P	17.6
5	☐			175.01		P	16.5
6	☐			222.23		P	15.2
7	☐			452.80		P	7.7
8	☐			1764.05		P	2.9

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			84.45		P	21.7
2	☐			74.44		P	6.8
3	☐			86.67		P	10.2
4	☐			95.56		P	10.7
5	☐			125.56		P	30.5
6	☐			186.67		P	14.6
7	☐			297.78		P	6.2
8	☐			1208.95		P	1.8

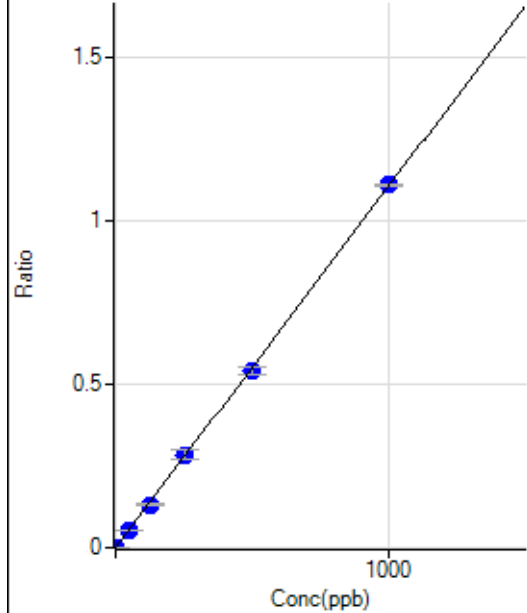
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			52.78		P	65.7
2	☐			36.11		P	66.6
3	☐			36.11		P	53.3
4	☐			41.67		P	40.0
5	☐			63.89		P	27.2
6	☐			97.23		P	52.4
7	☐			116.67		P	18.9
8	☐			305.57		P	15.5

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			21.11		P	9.1
2	☐			21.11		P	24.1
3	☐			27.78		P	6.9
4	☐			28.89		P	26.6
5	☐			34.45		P	31.1
6	☐			48.89		P	31.5
7	☐			66.67		P	39.1
8	☐			165.56		P	22.2

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	488.91	0.0001	P	25.1
2	☐	1.000	0.976	5645.81	0.0012	P	4.2
3	☐	50.000	49.359	260795.32	0.0547	P	0.4
4	☐	125.000	119.261	654634.88	0.1321	P	3.5
5	☐	250.000	256.278	1306131.13	0.2838	P	10.0
6	☐	500.000	489.527	2552197.13	0.5420	P	3.4
7	☐	1000.000	1004.416	5128153.59	1.1120	P	0.5
8	☐			1397.34	0.0003	P	13.9

$$y = 0.0011 * x + 1.0322E-004$$

$$R = 0.9999$$

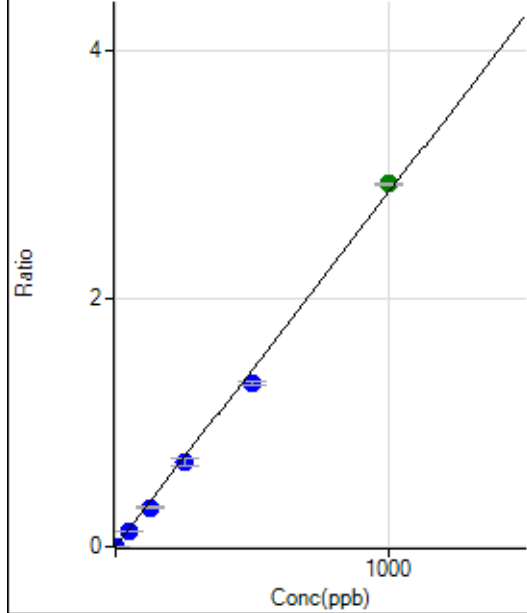
$$DL = 0.07007$$

$$BEC = 0.09324$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1311.21	0.0003	P	5.2
2	☐	1.000	0.887	13384.85	0.0028	P	1.3
3	☐	50.000	45.688	621997.36	0.1306	P	0.5
4	☐	125.000	111.034	1570266.54	0.3169	P	3.3
5	☐	250.000	238.361	3130234.77	0.6800	P	9.6
6	☐	500.000	460.085	6180004.48	1.3123	P	2.6
7	☐	1000.000	1024.829	13478901.86	2.9227	A	0.8
8	☐			3286.60	0.0008	P	16.3

$$y = 0.0029 * x + 2.7708E-004$$

$$R = 0.9987$$

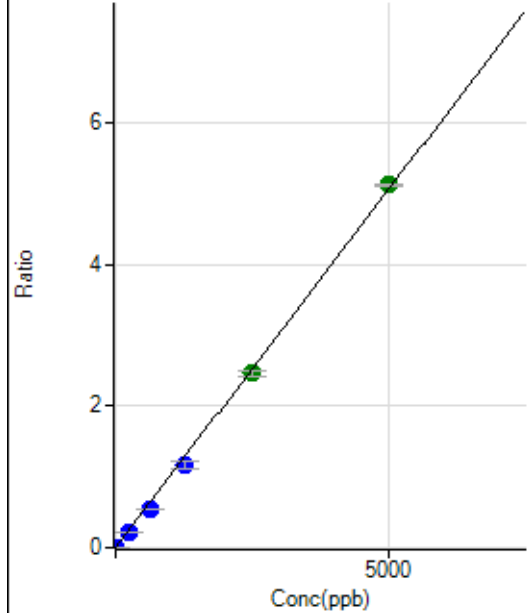
$$DL = 0.01514$$

$$BEC = 0.09716$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	277.79	0.0001	P	12.7
2	☐	1.000	0.913	4691.65	0.0010	P	4.6
3	☐	250.000	220.529	1064273.51	0.2234	P	1.1
4	☐	625.000	533.284	2676180.90	0.5401	P	3.6
5	☐	1250.000	1153.743	5377537.33	1.1685	P	10.1
6	☐	2500.000	2440.251	11637644.70	2.4714	A	3.2
7	☐	5000.000	5066.877	23665732.01	5.1314	A	0.4
8	☐			44119.30	0.0102	P	1.2

$$y = 0.0010 * x + 5.8670E-005$$

$$R = 0.9996$$

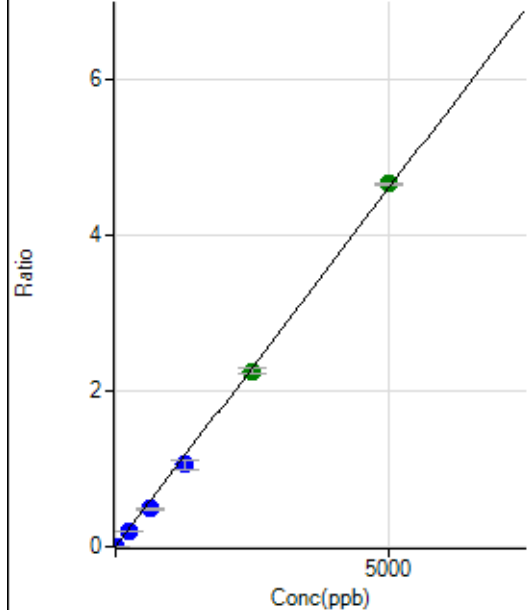
$$DL = 0.02208$$

$$BEC = 0.05793$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	261.12	0.0001	P	12.4
2	☐	1.000	0.850	3989.56	0.0008	P	0.4
3	☐	250.000	217.786	954316.57	0.2003	P	0.4
4	☐	625.000	529.147	2411107.90	0.4866	P	3.5
5	☐	1250.000	1146.264	4849324.94	1.0541	P	10.7
6	☐	2500.000	2452.442	10619928.82	2.2552	A	2.9
7	☐	5000.000	5063.305	21472731.27	4.6559	A	0.6
8	☐			39583.01	0.0092	P	1.1

$$y = 9.1953E-004 * x + 5.5148E-005$$

$$R = 0.9996$$

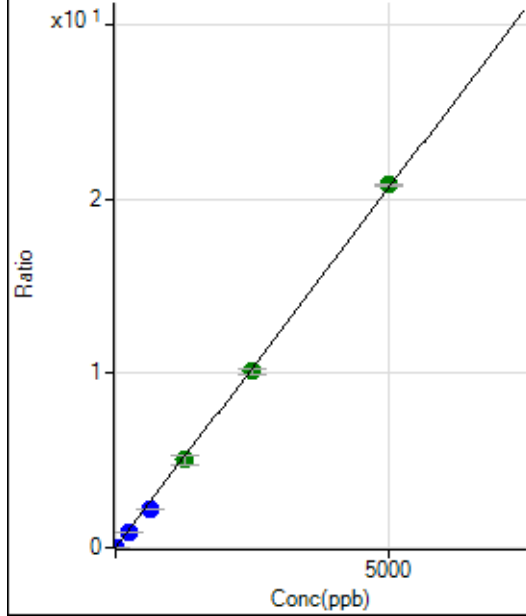
$$DL = 0.02231$$

$$BEC = 0.05997$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1164.86	0.0002	P	7.9
2	☐	1.000	0.867	18208.87	0.0038	P	1.3
3	☐	250.000	219.274	4306197.02	0.9039	P	0.5
4	☐	625.000	534.411	10913715.61	2.2026	P	3.4
5	☐	1250.000	1218.295	23105289.76	5.0210	A	10.2
6	☐	2500.000	2448.245	47514794.46	10.0898	A	2.9
7	☐	5000.000	5046.664	95919194.97	20.7982	A	0.4
8	☐			178415.74	0.0414	P	0.9

$$y = 0.0041 * x + 2.4605E-004$$

$$R = 0.9998$$

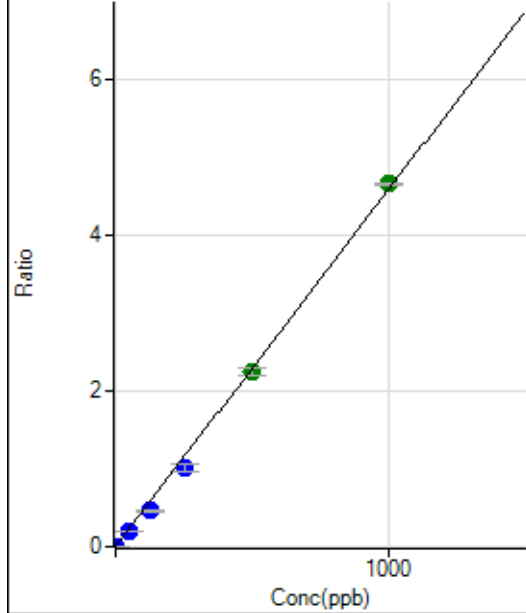
$$DL = 0.01421$$

$$BEC = 0.0597$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	401.86	0.0001	P	1.5
2	☐	1.000	-0.007	250.01	0.0001	P	11.2
3	☐	50.000	40.743	890771.12	0.1870	P	0.7
4	☐	125.000	100.075	2275110.37	0.4592	P	3.3
5	☐	250.000	219.274	4628005.31	1.0060	P	10.6
6	☐	500.000	489.811	10580478.83	2.2470	A	3.5
7	☐	1000.000	1016.355	21501650.48	4.6624	A	0.6
8	☐			3843.24	0.0009	P	8.5

$$y = 0.0046 * x + 8.4903E-005$$

$$R = 0.9993$$

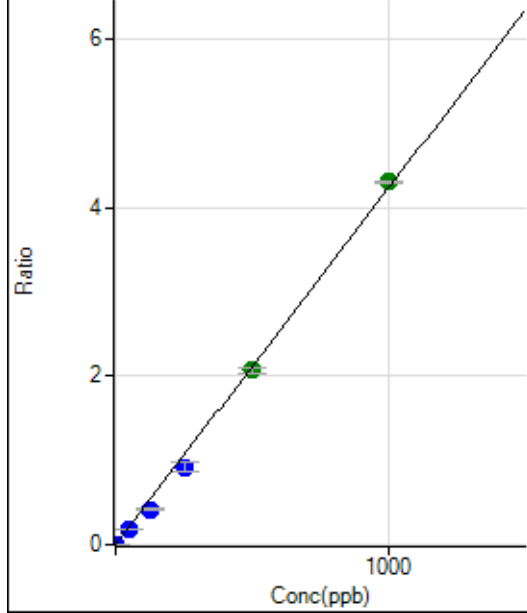
$$DL = 0.0008494$$

$$BEC = 0.01851$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	33.34	0.0000	P	43.4
2	☐	1.000	0.792	16021.46	0.0034	P	1.4
3	☐	50.000	40.537	816866.10	0.1715	P	0.3
4	☐	125.000	99.681	2089417.08	0.4216	P	2.8
5	☐	250.000	217.140	4223276.46	0.9185	P	11.5
6	☐	500.000	488.495	9728987.80	2.0662	A	3.8
7	☐	1000.000	1017.606	19850075.62	4.3042	A	0.7
8	☐			2189.14	0.0005	P	4.3

$$y = 0.0042 * x + 7.0459E-006$$

$$R = 0.9992$$

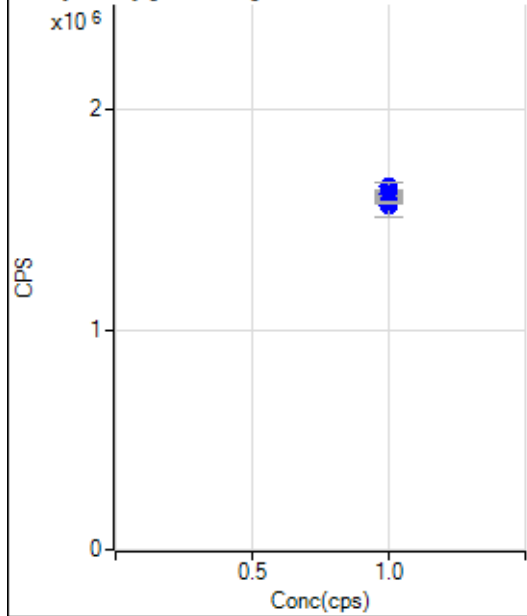
$$DL = 0.002167$$

$$BEC = 0.001666$$

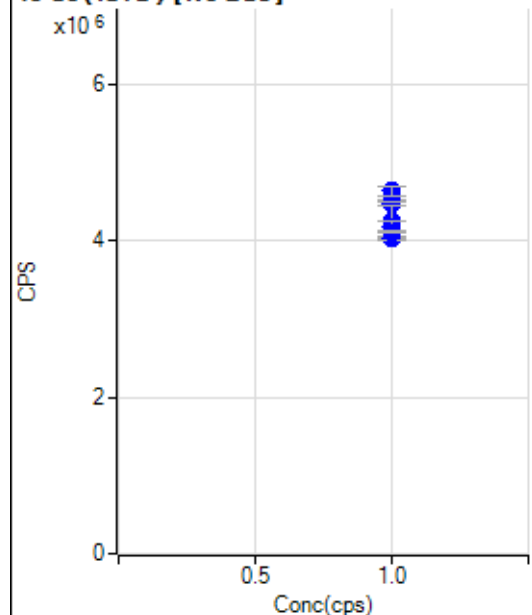
Weight: <None>

Min Conc: 0

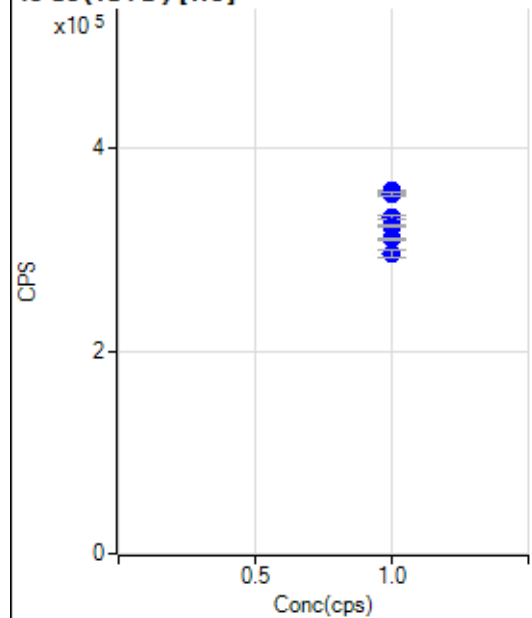
6 Li (ISTD) [No Gas]



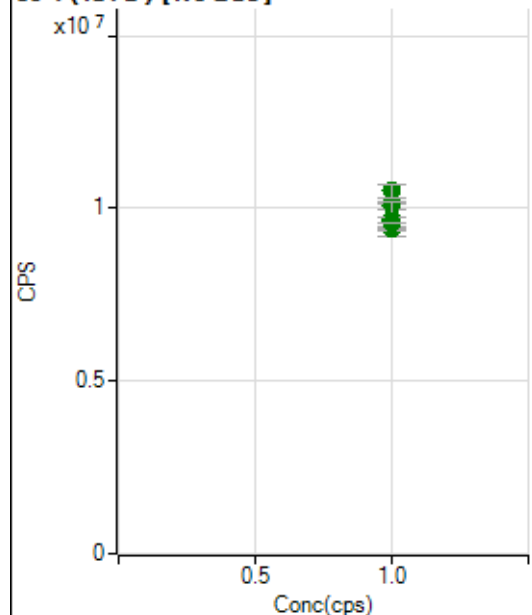
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1614370.89		P	0.7
2	☐	1.000		1598946.94		P	0.7
3	☐	1.000		1590759.65		P	0.4
4	☐	1.000		1648356.64		P	2.0
5	☐	1.000		1566489.25		P	7.4
6	☐	1.000		1612860.71		P	1.4
7	☐	1.000		1607522.69		P	0.5
8	☐	1.000		1577941.47		P	0.5

45 Sc (ISTD) [No Gas]

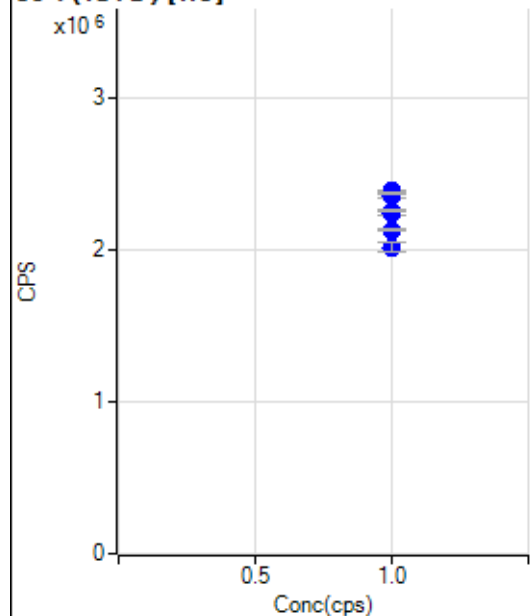
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4465779.45		P	0.9
2	☐	1.000		4506895.97		P	0.4
3	☐	1.000		4492602.82		P	0.2
4	☐	1.000		4636770.07		P	2.7
5	☐	1.000		4250239.83		P	9.9
6	☐	1.000		4183851.19		P	2.8
7	☐	1.000		4027767.51		P	0.8
8	☐	1.000		4108578.38		P	0.5

45 Sc (ISTD) [He]

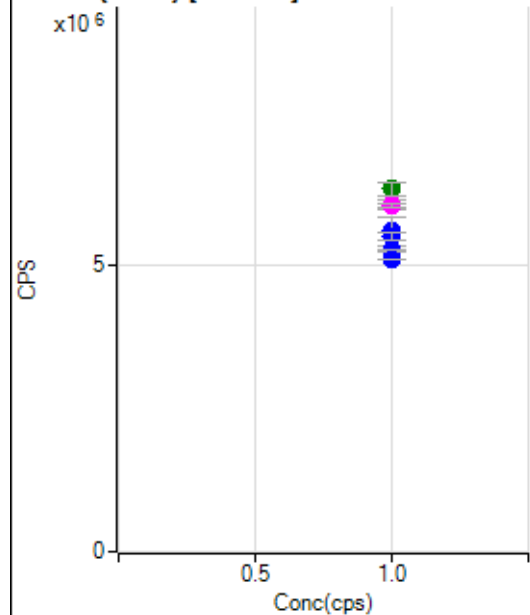
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		356223.23		P	0.9
2	☐	1.000		356715.34		P	1.6
3	☐	1.000		358453.89		P	0.6
4	☐	1.000		355541.60		P	1.1
5	☐	1.000		332983.45		P	1.0
6	☐	1.000		296785.83		P	2.3
7	☐	1.000		310693.50		P	0.8
8	☐	1.000		323259.00		P	0.5

89 Y (ISTD) [No Gas]

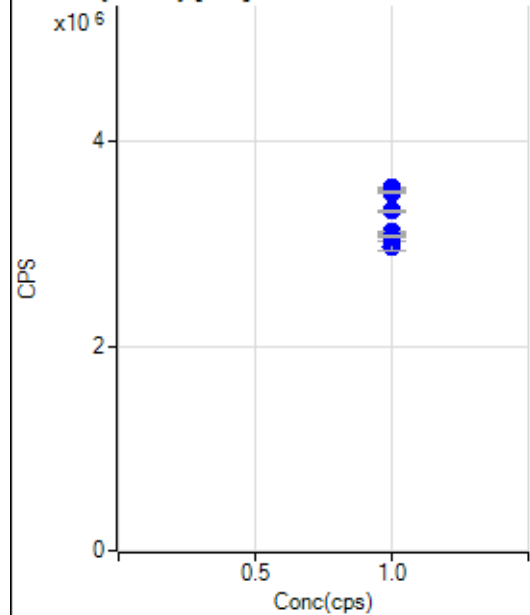
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10082439.08		A	1.7
2	☐	1.000		10148521.93		A	0.3
3	☐	1.000		10215083.11		A	0.1
4	☐	1.000		10509589.70		A	3.5
5	☐	1.000		9692381.18		A	10.4
6	☐	1.000		9609501.80		A	2.8
7	☐	1.000		9407797.22		A	0.5
8	☐	1.000		9578419.23		A	0.1

89 Y (ISTD) [He]

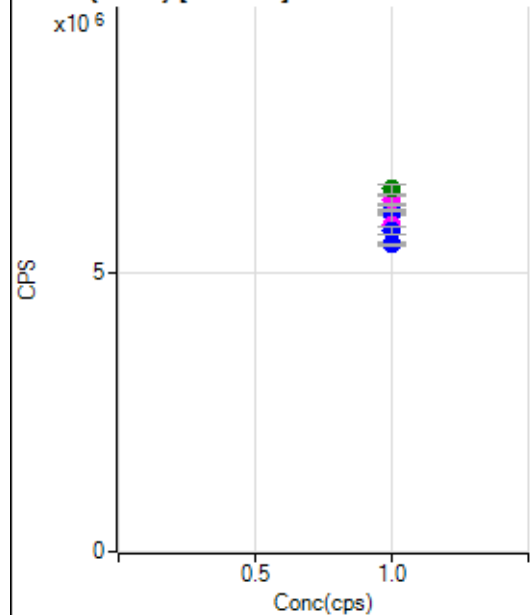
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2345439.15		P	1.2
2	☐	1.000		2345271.93		P	1.1
3	☐	1.000		2383826.91		P	0.4
4	☐	1.000		2367251.63		P	0.7
5	☐	1.000		2235687.80		P	1.1
6	☐	1.000		2011058.35		P	3.1
7	☐	1.000		2126627.24		P	0.3
8	☐	1.000		2253985.97		P	0.2

103 Rh (ISTD) [No Gas]

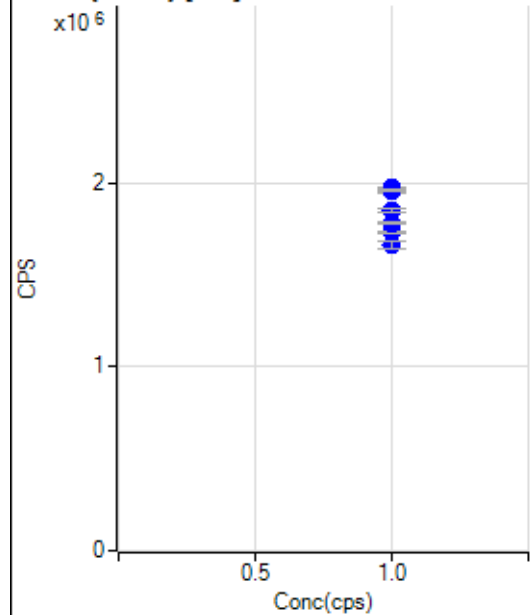
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6082537.48		M	2.6
2	☐	1.000		6091936.72		M	1.8
3	☐	1.000		6051884.70		M	1.1
4	☐	1.000		6351171.09		A	3.5
5	☐	1.000		5606513.21		P	9.3
6	☐	1.000		5507743.67		P	2.5
7	☐	1.000		5270768.84		P	0.4
8	☐	1.000		5115866.17		P	0.4

103 Rh (ISTD) [He]

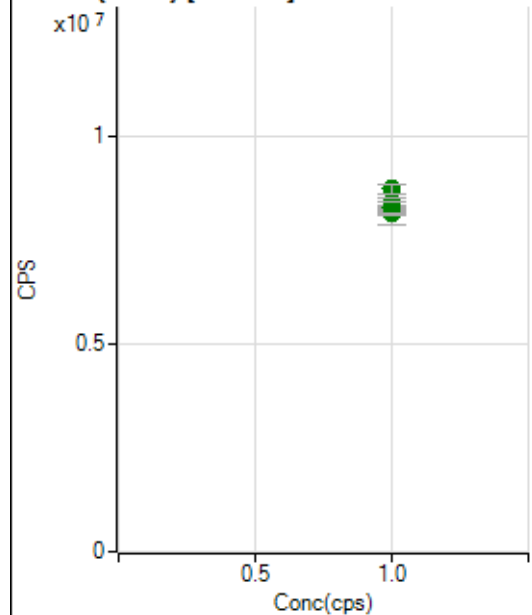
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3506167.87		P	0.5
2	☐	1.000		3529775.75		P	0.5
3	☐	1.000		3547590.78		P	0.3
4	☐	1.000		3511444.43		P	0.7
5	☐	1.000		3325279.92		P	0.7
6	☐	1.000		2979583.15		P	3.1
7	☐	1.000		3114177.98		P	0.4
8	☐	1.000		3070104.23		P	0.7

115 In (ISTD) [No Gas]

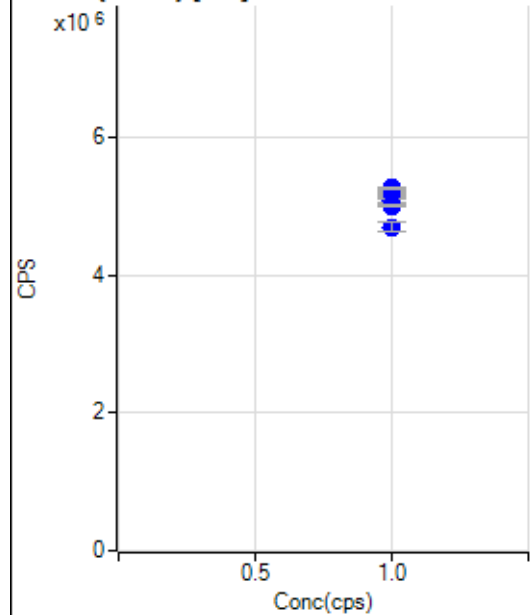
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6076025.80		P	0.6
2	☐	1.000		6132868.66		P	0.5
3	☐	1.000		6326660.15		M	2.0
4	☐	1.000		6524672.55		A	2.6
5	☐	1.000		5895789.28		M	10.9
6	☐	1.000		5764120.39		P	2.5
7	☐	1.000		5535925.34		P	0.3
8	☐	1.000		5518681.12		P	0.4

115 In (ISTD) [He]

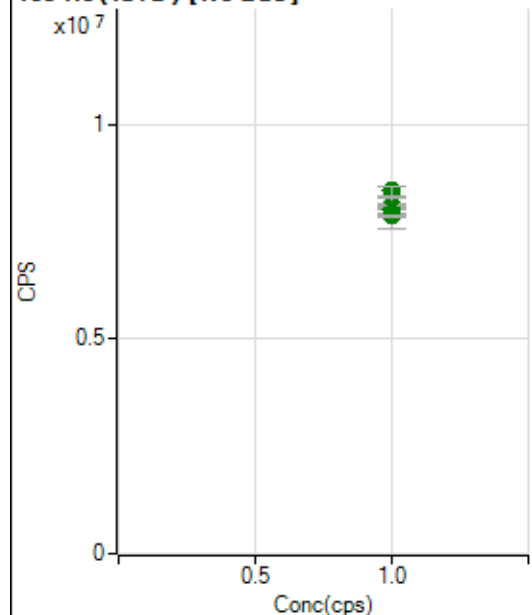
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1949017.78		P	0.6
2	☐	1.000		1959994.14		P	0.6
3	☐	1.000		1970759.15		P	0.6
4	☐	1.000		1953437.27		P	0.5
5	☐	1.000		1850226.83		P	0.8
6	☐	1.000		1661756.48		P	3.0
7	☐	1.000		1729115.69		P	0.6
8	☐	1.000		1779110.88		P	0.6

159 Tb (ISTD) [No Gas]

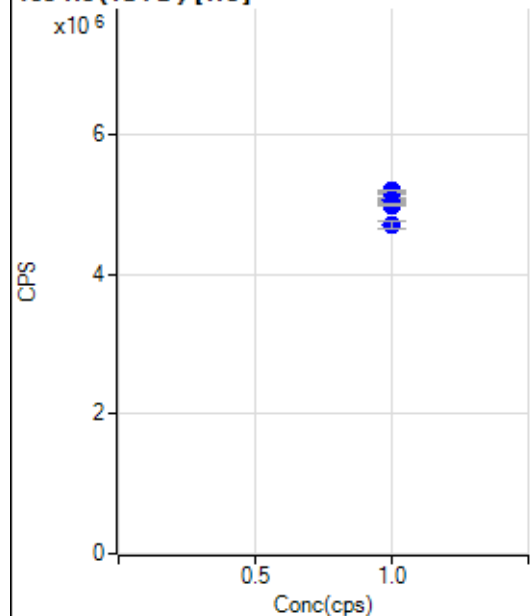
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8203337.10		A	0.9
2	☐	1.000		8316791.06		A	0.9
3	☐	1.000		8436805.99		A	0.5
4	☐	1.000		8746387.37		A	2.7
5	☐	1.000		8199928.70		A	8.2
6	☐	1.000		8312543.97		A	2.5
7	☐	1.000		8221822.66		A	0.4
8	☐	1.000		8141340.02		A	0.3

159 Tb (ISTD) [He]

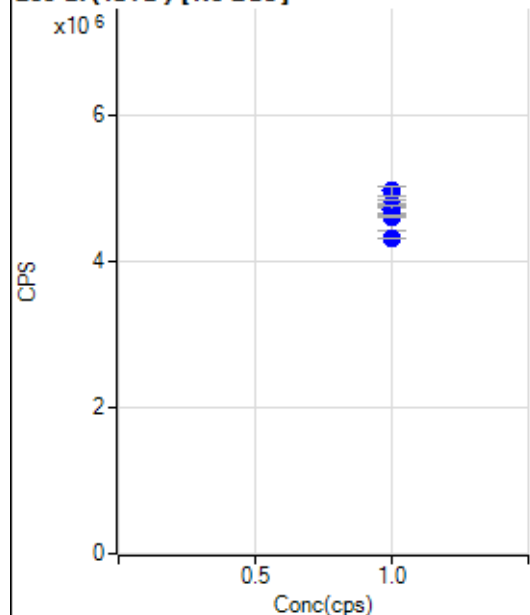
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5139340.69		P	0.6
2	☐	1.000		5169950.37		P	0.6
3	☐	1.000		5228235.55		P	0.6
4	☐	1.000		5267691.55		P	0.9
5	☐	1.000		5092771.00		P	1.1
6	☐	1.000		4700988.58		P	3.3
7	☐	1.000		5015475.72		P	0.4
8	☐	1.000		5010088.12		P	0.3

165 Ho (ISTD) [No Gas]

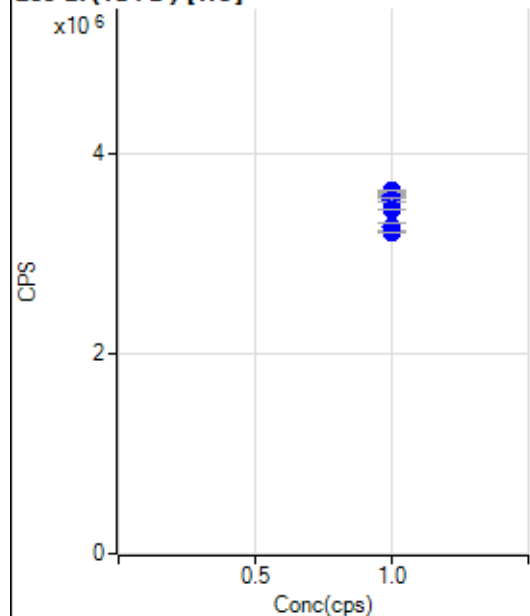
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7913600.92		A	0.7
2	☐	1.000		8046927.38		A	0.7
3	☐	1.000		8116291.34		A	0.9
4	☐	1.000		8456926.06		A	2.7
5	☐	1.000		7917677.59		A	8.9
6	☐	1.000		8024019.05		A	2.6
7	☐	1.000		7921524.95		A	0.8
8	☐	1.000		7867654.61		A	0.7

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5090655.34		P	0.5
2	☐	1.000		5098243.22		P	1.4
3	☐	1.000		5179515.13		P	1.2
4	☐	1.000		5193206.73		P	0.7
5	☐	1.000		5061759.37		P	1.0
6	☐	1.000		4711752.33		P	2.1
7	☐	1.000		5009843.95		P	0.6
8	☐	1.000		4989712.53		P	0.5

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4732909.34		P	0.6
2	☐	1.000		4769610.80		P	0.3
3	☐	1.000		4763980.73		P	0.4
4	☐	1.000		4957886.87		P	2.7
5	☐	1.000		4630368.02		P	9.1
6	☐	1.000		4711101.11		P	2.1
7	☐	1.000		4611862.47		P	0.8
8	☐	1.000		4313611.26		P	0.2

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3570565.43		P	0.3
2	☐	1.000		3583101.02		P	0.9
3	☐	1.000		3626224.56		P	0.7
4	☐	1.000		3636481.02		P	0.8
5	☐	1.000		3540410.12		P	1.2
6	☐	1.000		3277550.06		P	2.5
7	☐	1.000		3452430.95		P	0.3
8	☐	1.000		3223502.49		P	0.1

US EPA Tune Check Sample Report

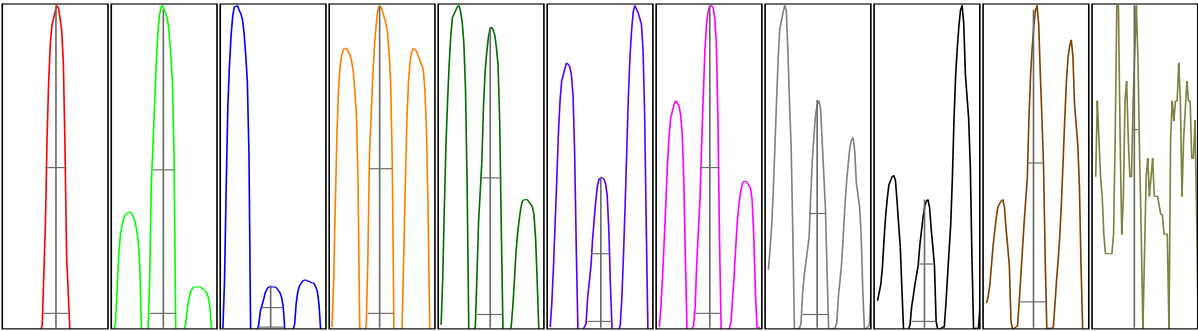
Batch Folder C:\Agilent\ICPMH\1\DATA\P7040221 MS.b
Report Comment
Instrument Name G8403A JP14410463

[No Gas]

Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)	RSD% (Flag)
9	6562	0.42	5.00	
24	98207	0.46	5.00	
25	13161	0.29	5.00	
26	15384	0.28	5.00	
59	16686	0.36	5.00	
113	8632	0.46	5.00	
115	25964	0.83	5.00	
206	10274	0.59	5.00	
207	8818	0.63	5.00	
208	21728	0.39	5.00	
220	0	30.61		

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
9	6572	6595	6576	6526	6543
24	98548	98319	98534	97438	98197
25	13127	13219	13144	13180	13134
26	15357	15440	15422	15349	15354
59	16728	16760	16690	16624	16627
113	8632	8661	8680	8586	8600
115	26192	26096	26057	25782	25695
206	10258	10316	10348	10260	10189
207	8736	8869	8870	8800	8815
208	21828	21743	21776	21685	21606
220	1	0	0	0	0

Integration Time [sec] = 0.1



Mass	Peak Height	Axis (Actual)	Axis (Required)	Axis (Flag)	Width-X% (Actual)	Width-X% (Required)	Width- X% (Flag)
9	11842	9.05	8.9 - 9.1		0.733	0.900	
24	159698	24.00	23.9 - 24.1		0.779	0.900	
25	21460	24.95	24.9 - 25.1		0.775	0.900	
26	24601	25.95	25.9 - 26.1		0.785	0.900	
59	29193	59.00	58.9 - 59.1		0.779	0.900	
113	16172	113.05	112.9 - 113.1		0.738	0.900	
115	49044	115.05	114.9 - 115.1		0.755	0.900	
206	21432	206.00	205.9 - 206.1		0.774	0.900	
207	17795	206.95	206.9 - 207.1		0.738	0.900	
208	44315	207.95	207.9 - 208.1		0.778	0.900	
220	1	219.70	-				

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

Tune Parameters

Plasma Paramters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
RF Power	1600	W	Carrier Gas	0.67	L/min	S/C Temp		2 °C
RF Matching	1.80	V	Option Gas	0.0	%	Gas Switch		Dilution Gas
Smpl Depth	9.0	mm	Nebulizer Pump	0.10	rpm	Makeup/Dilution Gas		0.40 L/min

Lenses Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Extract 1	0.0	V	Omega Lens	10.9	V	Deflect	14.4	V
Extract 2	-155.0	V	Cell Entrance	-30	V	Plate Bias	-35	V
Omega Bias	-80	V	Cell Exit	-50	V			

Cell Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Use Gas	No		OctP Bias	-8.0	V	Energy Discrimination	5.0	V
He Flow	0.0	mL/min	OctP RF	190	V			

[He]

Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)
59	5929	0.66	
89	51313	0.25	
205	10373	0.63	

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
59	5966	5892	5976	5909	5900
89	51339	51390	51466	51145	51225
205	10260	10402	10410	10418	10374

Integration Time [sec] = 0.1

Tune Parameters

Plasma Paramters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
RF Power	1600	W	Carrier Gas	0.67	L/min	S/C Temp		2 °C
RF Matching	1.80	V	Option Gas	0.0	%	Gas Switch		Dilution Gas
Smpl Depth	9.0	mm	Nebulizer Pump	0.10	rpm	Makeup/Dilution Gas		0.40 L/min

Lenses Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Extract 1	0.0	V	Omega Lens	12.1	V	Deflect	2.6	V
Extract 2	-185.0	V	Cell Entrance	-40	V	Plate Bias	-60	V
Omega Bias	-105	V	Cell Exit	-60	V			

Cell Parameters

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