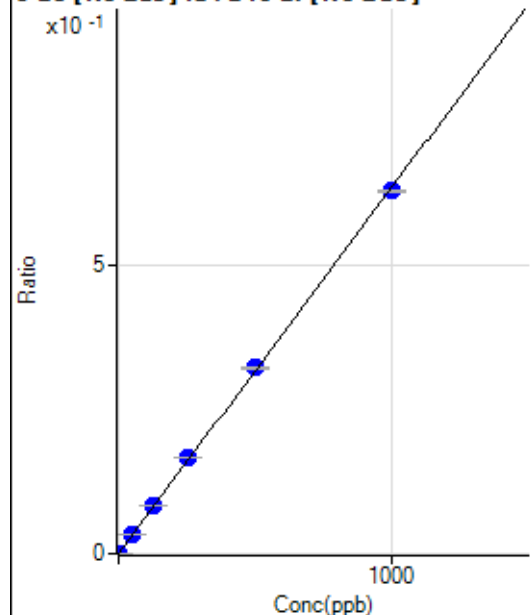


Batch Folder: C:\Agilent\ICPMH\1\DATA\P7060921SMS.b\
Analysis File: P7060921SMS.batch.bin
DA Date-Time: 2021-06-10 00:47:53
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2021-06-09 13:28:03
2	004CALS.d	S01	2021-06-09 13:31:09
3	005CALS.d	S02	2021-06-09 13:34:16
4	006CALS.d	S03	2021-06-09 13:37:23
5	007CALS.d	S04	2021-06-09 13:40:29
6	008CALS.d	S05	2021-06-09 13:43:34
7	009CALS.d	S06	2021-06-09 13:46:36
8	010CALS.d	S07	2021-06-09 13:49:34
9	011CALS.d	S08	2021-06-09 13:52:29

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	50.00	0.0000	P	28.8
2	☐	0.100	0.123	190.74	0.0001	P	13.5
3	☐	1.000	1.099	1277.86	0.0007	P	7.6
4	☐	50.000	53.357	60177.98	0.0339	P	2.9
5	☐	125.000	132.176	146908.60	0.0839	P	0.3
6	☐	250.000	262.765	290714.39	0.1668	P	0.2
7	☐	500.000	508.479	548896.77	0.3227	P	1.2
8	☐	1000.000	991.504	1000310.37	0.6293	P	0.6
9	☐			431.49	0.0003	P	23.8

$$y = 6.3463\text{E-}004 * x + 2.8841\text{E-}005$$

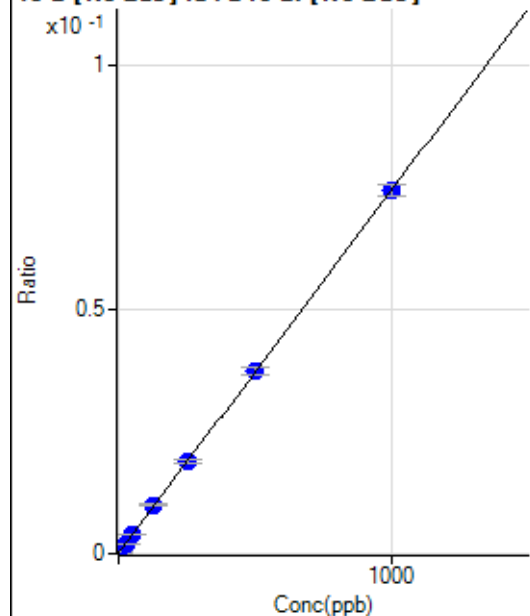
$$R = 0.9998$$

$$DL = 0.03924$$

$$BEC = 0.04545$$

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	177.78	0.0001	P	10.2
2	☐	2.500	2.462	508.36	0.0003	P	10.3
3	☐	25.000	25.126	3458.82	0.0020	P	11.0
4	☐	50.000	51.396	6951.75	0.0039	P	7.2
5	☐	125.000	131.984	17321.39	0.0099	P	5.0
6	☐	250.000	253.224	32925.19	0.0189	P	3.2
7	☐	500.000	499.844	63246.23	0.0372	P	4.1
8	☐	1000.000	998.326	117911.30	0.0742	P	3.3
9	☐			5592.84	0.0036	P	11.0

$$y = 7.4198\text{E-}005 * x + 1.0260\text{E-}004$$

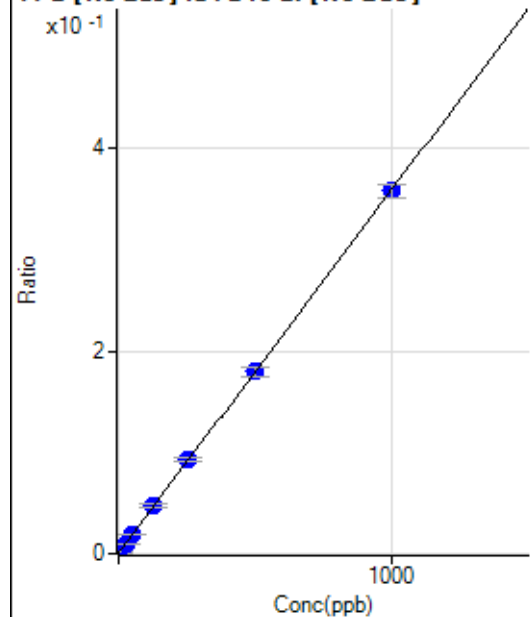
$$R = 1.0000$$

$$DL = 0.4229$$

$$BEC = 1.383$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1016.73	0.0006	P	10.0
2	☐	2.500	2.274	2497.49	0.0014	P	11.9
3	☐	25.000	26.240	17566.14	0.0100	P	4.9
4	☐	50.000	51.660	33891.30	0.0191	P	5.4
5	☐	125.000	129.886	82446.86	0.0471	P	6.1
6	☐	250.000	256.033	160841.13	0.0923	P	4.6
7	☐	500.000	500.213	305668.96	0.1797	P	4.8
8	☐	1000.000	997.661	568945.02	0.3579	P	3.4
9	☐			26473.56	0.0169	P	9.0

$$y = 3.5817\text{E-}004 * x + 5.8692\text{E-}004$$

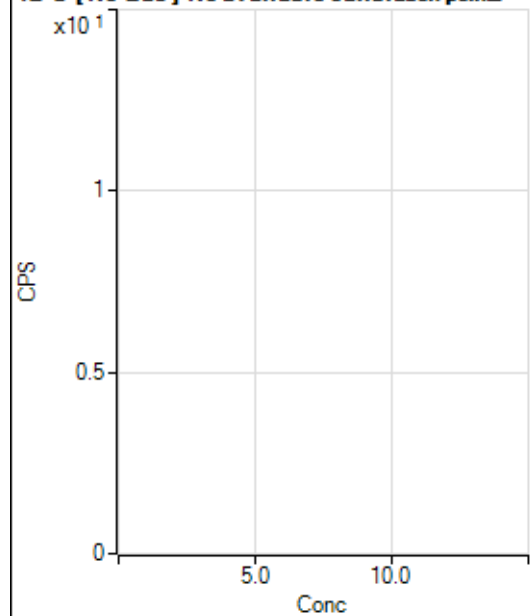
$$R = 1.0000$$

$$DL = 0.493$$

$$BEC = 1.639$$

Weight: <None>

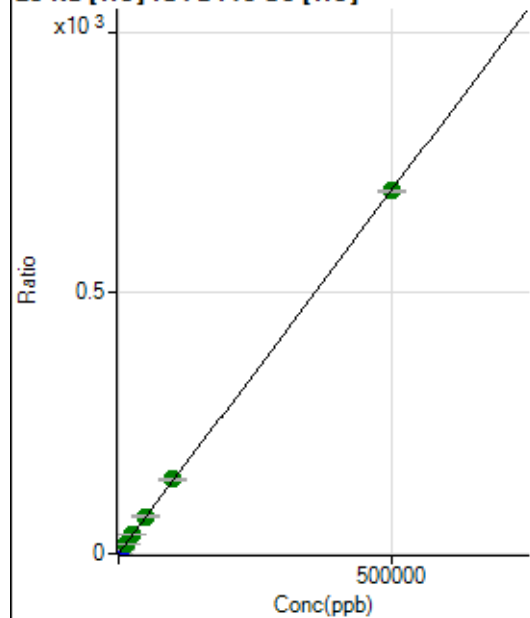
Min Conc: 0

12 C [No Gas] No available calibration points

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						
9	☐						

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						
9	☐						

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	9603.35	0.0316	P	2.4
2	☐	50.000	48.892	31188.35	0.0997	P	0.8
3	☐	500.000	511.307	225990.92	0.7435	P	1.3
4	☐	5000.000	5097.984	2151326.96	7.1295	P	1.1
5	☐	12500.000	12952.548	5366135.41	18.0653	A	0.4
6	☐	25000.000	25645.799	10191596.50	35.7379	A	0.7
7	☐	50000.000	51563.055	19067750.43	71.8221	A	1.6
8	☐	100000.00	102001.73	36035137.61	142.0471	A	0.7
9	☐	500000.00	499398.75	182099229.0	695.3368	A	0.8

$$y = 0.0014 * x + 0.0316$$

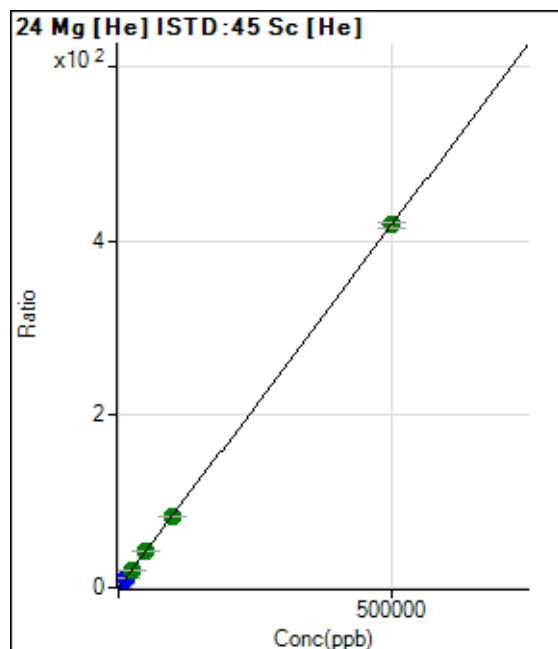
$$R = 1.0000$$

$$DL = 1.62$$

$$BEC = 22.72$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	166.67	0.0005	P	19.6
2	☐	50.000	48.769	12922.49	0.0413	P	2.2
3	☐	500.000	501.557	127605.11	0.4198	P	0.3
4	☐	5000.000	4980.548	1256426.69	4.1639	P	1.6
5	☐	12500.000	12417.923	3083563.65	10.3809	P	0.6
6	☐	25000.000	25061.723	5974233.60	20.9500	A	0.6
7	☐	50000.000	50081.567	11114215.61	41.8645	A	1.8
8	☐	100000.00	98238.923	20832193.17	82.1199	A	1.4
9	☐	500000.00	500343.21	109529510.7	418.2448	A	1.2

$$y = 8.3591\text{E-}004 * x + 5.4875\text{E-}004$$

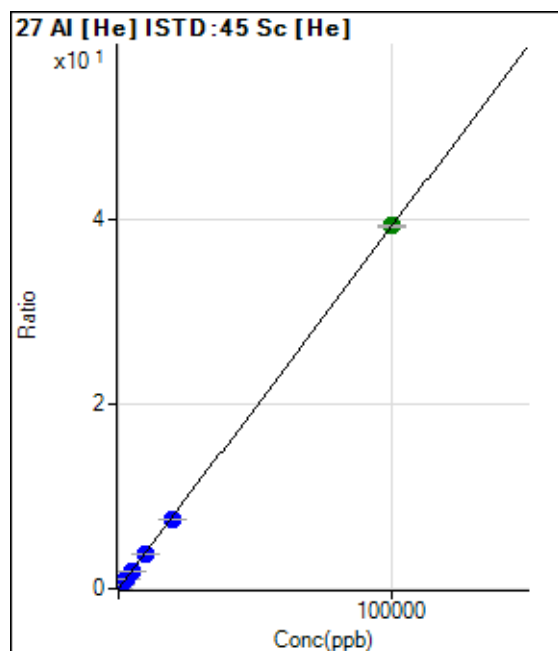
$$R = 1.0000$$

$$DL = 0.3856$$

$$BEC = 0.6565$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	83.33	0.0003	P	61.2
2	☐	2.000	2.307	369.46	0.0012	P	13.2
3	☐	20.000	21.166	2611.41	0.0086	P	3.2
4	☐	1000.000	999.568	118588.83	0.3930	P	2.7
5	☐	2500.000	2496.246	291432.52	0.9811	P	1.9
6	☐	5000.000	4868.993	545662.30	1.9134	P	0.6
7	☐	10000.000	9723.749	1014430.04	3.8209	P	1.0
8	☐	20000.000	19192.866	1913175.74	7.5414	P	0.0
9	☐	100000.00	100195.70	10310147.54	39.3684	A	0.8

$$y = 3.9291\text{E-}004 * x + 2.7491\text{E-}004$$

$$R = 1.0000$$

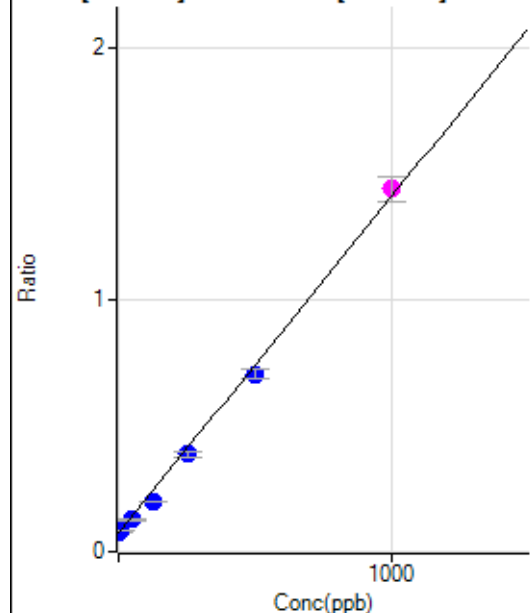
$$DL = 1.285$$

$$BEC = 0.6997$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	289990.14	0.0745	P	1.1
2	☐	1.000	-0.467	295800.08	0.0739	P	0.8
3	☐	10.000	7.310	329448.50	0.0843	P	1.2
4	☐	50.000	39.168	498123.23	0.1269	P	1.4
5	☐	125.000	93.997	766567.34	0.2003	P	2.2
6	☐	250.000	234.228	1446957.40	0.3879	P	6.0
7	☐	500.000	471.802	2523545.09	0.7057	P	5.8
8	☐	1000.000	1022.487	4680673.15	1.4425	M	7.2
9	☐			596902.48	0.1821	P	7.1

$$y = 0.0013 * x + 0.0745$$

$$R = 0.9990$$

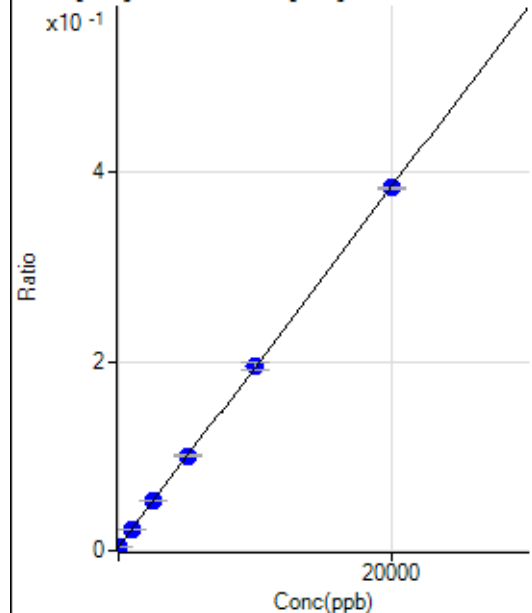
$$DL = 1.9$$

$$BEC = 55.71$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	8.558	1255.65	0.0041	P	6.6
2	☐	0.000	-10.046	1183.41	0.0038	P	6.4
3	☐	0.000	1.488	1216.74	0.0040	P	3.8
4	☐	1000.000	987.906	6868.41	0.0228	P	3.6
5	☐	2500.000	2582.361	15769.77	0.0531	P	2.6
6	☐	5000.000	5052.189	28538.75	0.1001	P	2.6
7	☐	10000.000	10059.723	51837.59	0.1953	P	4.6
8	☐	20000.000	19947.401	97253.95	0.3834	P	0.5
9	☐			947.28	0.0036	P	12.3

$$y = 1.9019E-005 * x + 0.0040$$

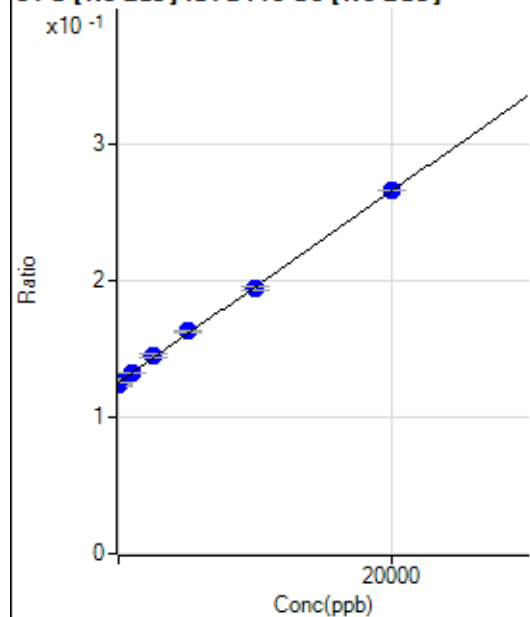
$$R = 1.0000$$

$$DL = 35.18$$

$$BEC = 209$$

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	98.876	492104.92	0.1265	P	0.8
2	☐	0.000	-265.092	495982.85	0.1239	P	0.9
3	☐	0.000	166.216	496053.52	0.1270	P	1.6
4	☐	1000.000	923.378	519065.92	0.1323	P	0.5
5	☐	2500.000	2729.354	554771.45	0.1449	P	1.7
6	☐	5000.000	5307.036	608375.38	0.1630	P	0.8
7	☐	10000.000	9801.256	696073.07	0.1946	P	0.9
8	☐	20000.000	19997.775	863852.56	0.2661	P	0.1
9	☐			410710.58	0.1253	P	1.8

$$y = 7.0173\text{E-}006 * x + 0.1258$$

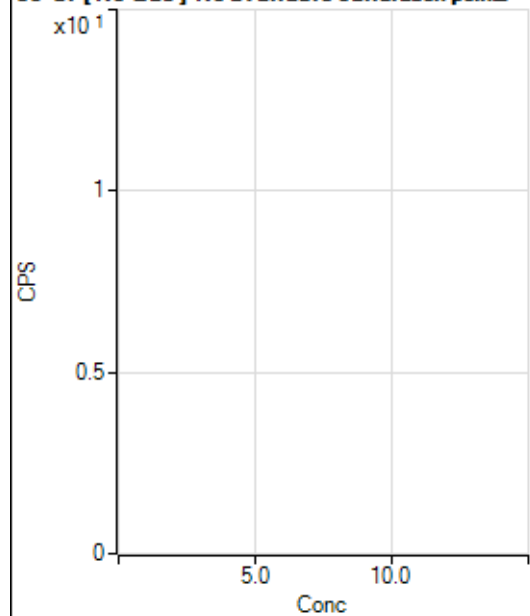
$$R = 0.9996$$

$$DL = 587.1$$

$$BEC = 1.793\text{E+}04$$

Weight: <None>

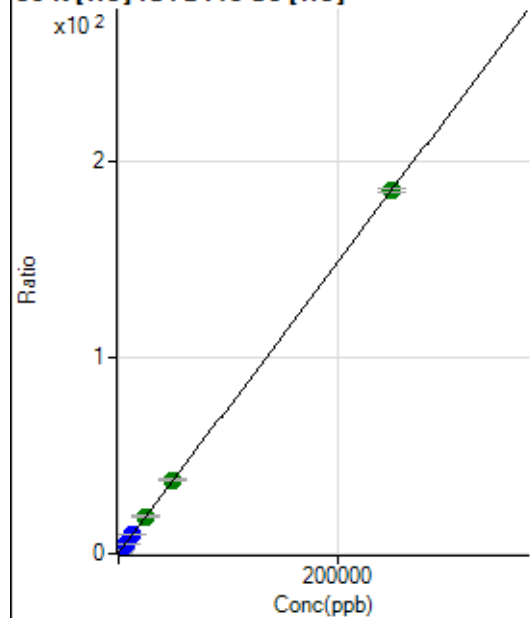
Min Conc: 0

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	☐						
9	☐						

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						
9	☐						

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	52534.83	0.1731	P	2.0
2	☐	50.000	44.556	64453.89	0.2061	P	1.9
3	☐	500.000	520.697	169815.64	0.5587	P	1.1
4	☐	2500.000	2699.073	655345.95	2.1718	P	1.4
5	☐	6250.000	6746.268	1535345.79	5.1688	P	0.3
6	☐	12500.000	13237.700	2844855.64	9.9759	P	0.5
7	☐	25000.000	25565.343	5071994.56	19.1048	A	1.8
8	☐	50000.000	50623.330	9553918.18	37.6608	A	1.0
9	☐	250000.00	249767.47	48483562.19	185.1316	A	1.0

$$y = 7.4052E-004 * x + 0.1731$$

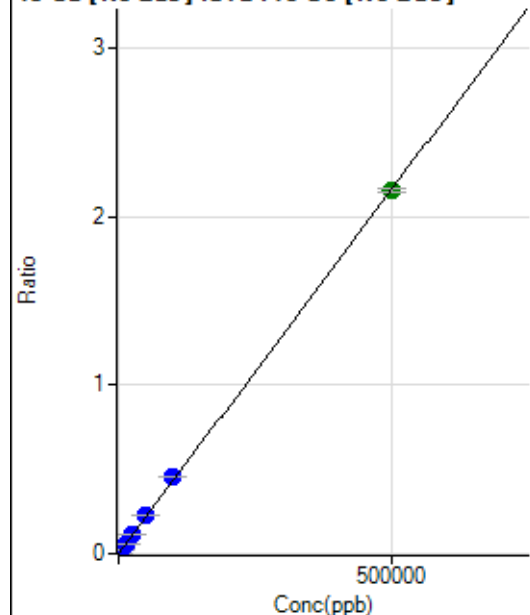
$$R = 1.0000$$

$$DL = 14.05$$

$$BEC = 233.7$$

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	194.45	0.0000	P	8.9
2	☐	50.000	49.629	1058.40	0.0003	P	7.7
3	☐	500.000	534.753	9225.31	0.0024	P	2.8
4	☐	5000.000	5489.528	93300.76	0.0238	P	1.3
5	☐	12500.000	13642.902	225884.29	0.0590	P	1.5
6	☐	25000.000	27224.764	439285.39	0.1177	P	0.7
7	☐	50000.000	53341.614	824925.61	0.2306	P	1.2
8	☐	100000.00	106074.66	1488289.92	0.4585	P	1.1
9	☐	500000.00	498306.16	7060662.83	2.1538	A	0.9

$$y = 4.3221\text{E-}006 * x + 4.9978\text{E-}005$$

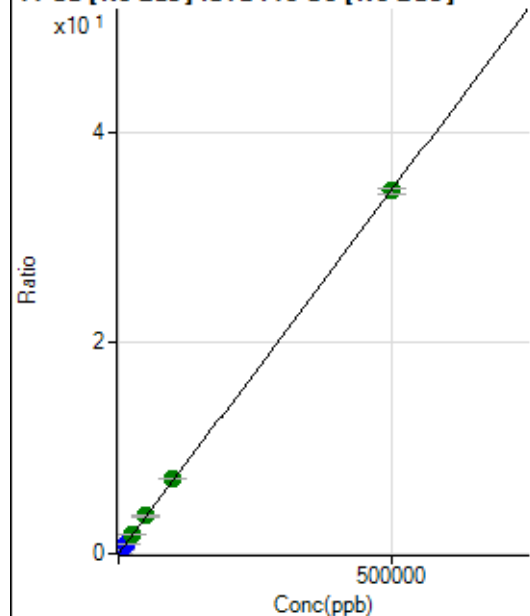
$$R = 0.9999$$

$$DL = 3.086$$

$$BEC = 11.56$$

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	8522.86	0.0022	P	4.6
2	☐	50.000	52.186	23163.74	0.0058	P	2.0
3	☐	500.000	532.496	151980.69	0.0389	P	1.3
4	☐	5000.000	5404.171	1470384.36	0.3747	P	0.7
5	☐	12500.000	13386.322	3540141.57	0.9249	P	1.4
6	☐	25000.000	26276.190	6766930.78	1.8134	A	0.7
7	☐	50000.000	51583.989	12727741.81	3.5579	A	1.1
8	☐	100000.00	103349.40	23130851.65	7.1261	A	0.8
9	☐	500000.00	499081.67	112785828.3	34.4040	A	1.2

$$y = 6.8930\text{E-}005 * x + 0.0022$$

$$R = 1.0000$$

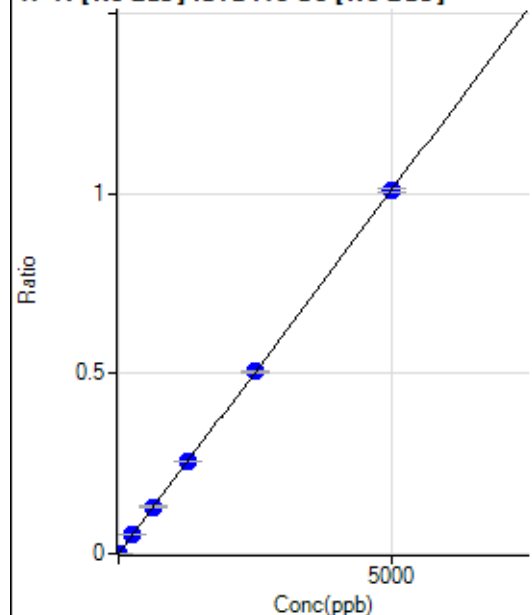
$$DL = 4.353$$

$$BEC = 31.79$$

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	66.67	0.0000	P	45.5
2	☐	0.500	0.479	455.57	0.0001	P	4.4
3	☐	5.000	5.231	4195.16	0.0011	P	6.0
4	☐	250.000	256.846	203576.49	0.0519	P	0.8
5	☐	625.000	645.771	499158.17	0.1304	P	1.0
6	☐	1250.000	1272.475	958816.54	0.2569	P	0.8
7	☐	2500.000	2500.413	1806170.81	0.5049	P	1.1
8	☐	5000.000	4991.236	3271308.30	1.0078	P	0.9
9	☐			1352.88	0.0004	P	10.4

$$y = 2.0191\text{E-}004 * x + 1.7164\text{E-}005$$

$$R = 1.0000$$

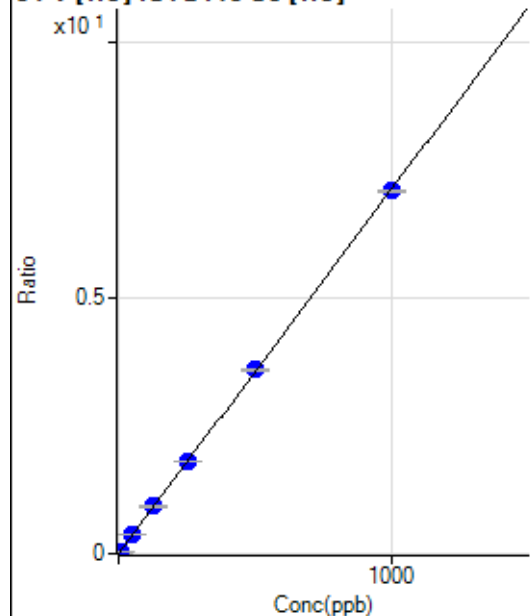
$$DL = 0.116$$

$$BEC = 0.08501$$

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	4.45	0.0000	P	86.6
2	☐	0.500	0.512	1145.61	0.0037	P	5.7
3	☐	5.000	5.313	11500.11	0.0378	P	1.4
4	☐	50.000	51.189	109971.06	0.3644	P	0.6
5	☐	125.000	129.356	273550.94	0.9209	P	0.5
6	☐	250.000	254.462	516600.18	1.8116	P	0.4
7	☐	500.000	505.135	954744.07	3.5962	P	1.6
8	☐	1000.000	995.711	1798281.93	7.0887	P	0.8
9	☐			685.58	0.0026	P	6.3

$$y = 0.0071 * x + 1.4680\text{E-}005$$

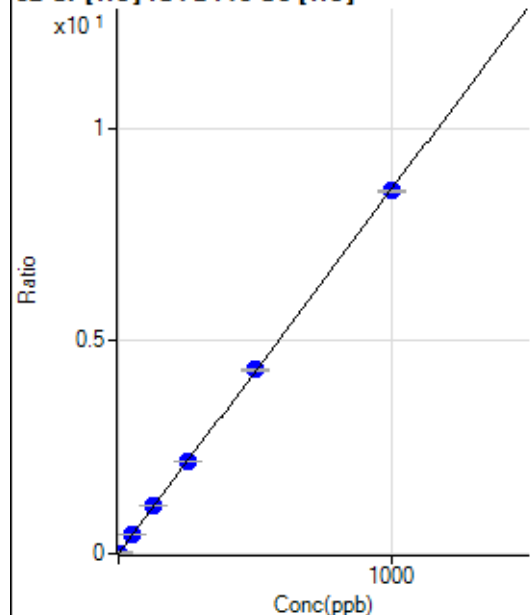
$$R = 1.0000$$

$$DL = 0.005357$$

$$BEC = 0.002062$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1167.84	0.0038	P	4.6
2	☐	0.200	0.255	1886.80	0.0060	P	5.7
3	☐	2.000	2.177	6833.87	0.0225	P	1.4
4	☐	50.000	51.869	135145.18	0.4479	P	1.1
5	☐	125.000	130.018	331756.12	1.1169	P	0.2
6	☐	250.000	254.654	622756.76	2.1838	P	0.3
7	☐	500.000	504.381	1147372.92	4.3216	P	1.3
8	☐	1000.000	995.925	2163806.24	8.5295	P	0.5
9	☐			5446.61	0.0208	P	3.5

$$y = 0.0086 * x + 0.0038$$

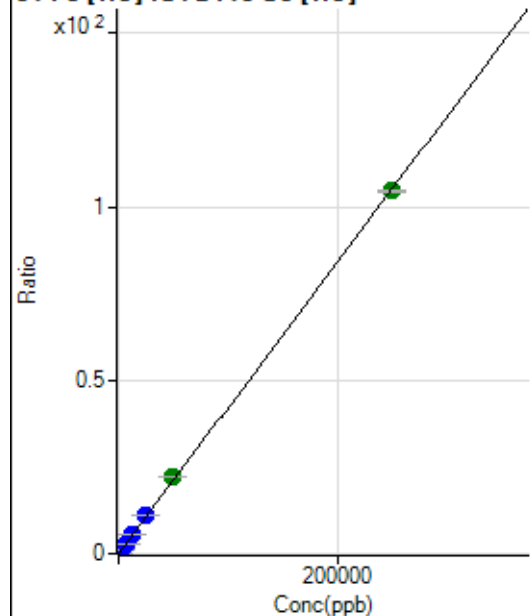
$$R = 1.0000$$

$$DL = 0.06226$$

$$BEC = 0.4494$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	830.88	0.0027	P	10.0
2	☐	5.000	5.483	1575.05	0.0050	P	8.2
3	☐	50.000	54.572	7786.75	0.0256	P	3.4
4	☐	2500.000	2641.207	335004.64	1.1102	P	1.8
5	☐	6250.000	6733.218	839446.54	2.8260	P	0.6
6	☐	12500.000	13182.544	1577019.19	5.5302	P	0.7
7	☐	25000.000	25981.339	2892942.14	10.8968	P	1.6
8	☐	50000.000	52527.538	5588078.93	22.0277	A	0.7
9	☐	250000.00	249348.73	27381769.34	104.5554	A	0.7

$$y = 4.1930E-004 * x + 0.0027$$

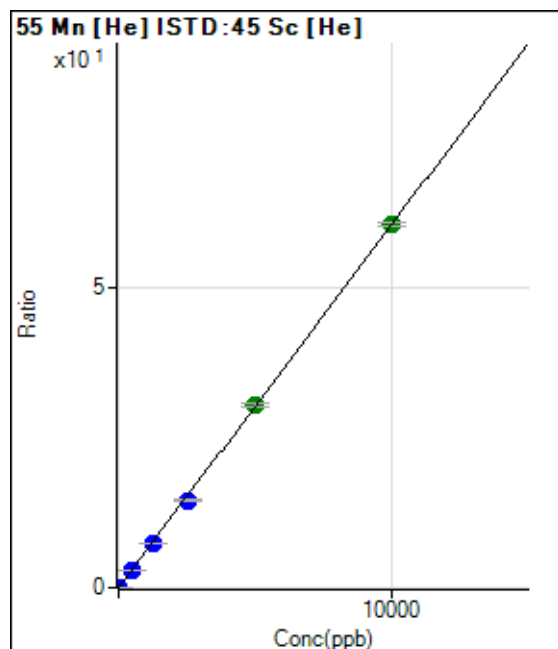
$$R = 0.9999$$

$$DL = 1.963$$

$$BEC = 6.527$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	82.22	0.0003	P	12.8
2	☐	0.100	0.117	306.67	0.0010	P	11.0
3	☐	1.000	1.021	1963.48	0.0065	P	4.2
4	☐	500.000	488.880	894181.07	2.9632	P	0.5
5	☐	1250.000	1229.778	2214026.94	7.4536	P	0.2
6	☐	2500.000	2410.076	4165413.34	14.6071	P	0.6
7	☐	5000.000	5053.080	8130282.59	30.6256	A	2.4
8	☐	10000.000	9999.025	15373541.16	60.6016	A	1.0
9	☐			8299.07	0.0317	P	3.4

$$y = 0.0061 * x + 2.7095E-004$$

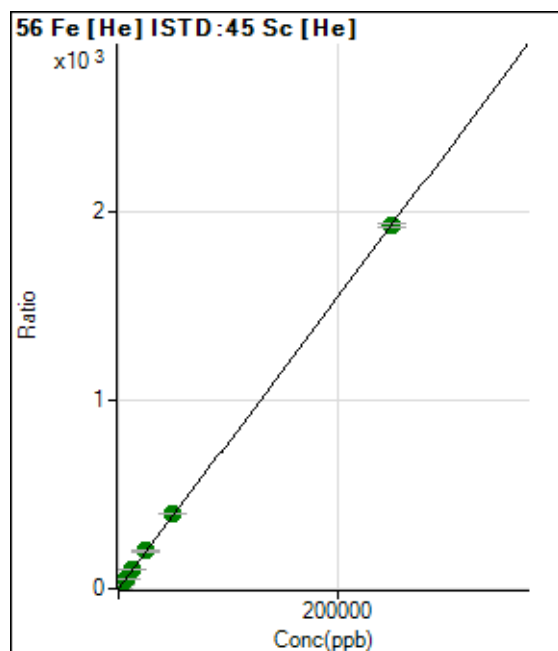
$$R = 0.9999$$

$$DL = 0.01719$$

$$BEC = 0.04471$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	4732.32	0.0156	P	4.1
2	☐	5.000	5.166	17347.53	0.0555	P	1.9
3	☐	50.000	53.266	129702.79	0.4267	P	0.5
4	☐	2500.000	2629.760	6129325.66	20.3131	A	1.5
5	☐	6250.000	6595.905	15127172.10	50.9253	A	0.8
6	☐	12500.000	13068.143	28767064.76	100.8804	A	0.7
7	☐	25000.000	25923.904	53124262.30	200.1060	A	1.8
8	☐	50000.000	51805.281	101441987.4	399.8682	A	0.2
9	☐	250000.00	249508.20	504339422.3	1,925.813	A	1.0

$$y = 0.0077 * x + 0.0156$$

$$R = 1.0000$$

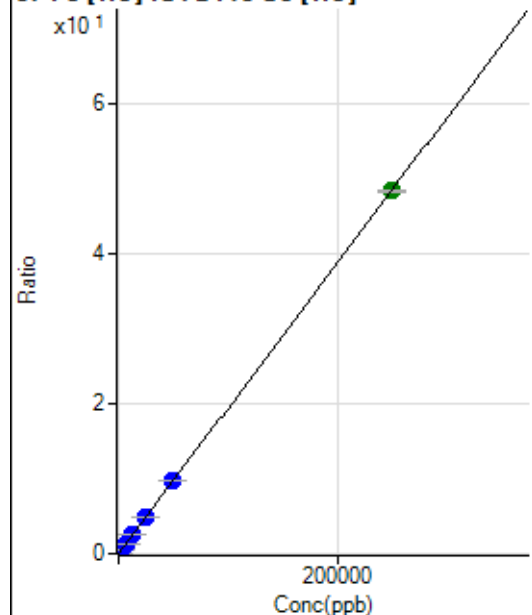
$$DL = 0.2471$$

$$BEC = 2.02$$

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	212.97	0.0007	P	10.0
2	☐	5.000	3.755	446.31	0.0014	P	3.6
3	☐	50.000	52.162	3276.35	0.0108	P	2.9
4	☐	2500.000	2581.601	150693.98	0.4994	P	1.3
5	☐	6250.000	6469.015	371410.07	1.2504	P	0.3
6	☐	12500.000	12755.056	702827.05	2.4647	P	0.7
7	☐	25000.000	25218.360	1293539.24	4.8723	P	1.5
8	☐	50000.000	49995.732	2450266.29	9.6587	P	0.7
9	☐	250000.00	249959.97	12645733.27	48.2872	A	0.8

$$y = 1.9318\text{E-}004 * x + 7.0159\text{E-}004$$

$$R = 1.0000$$

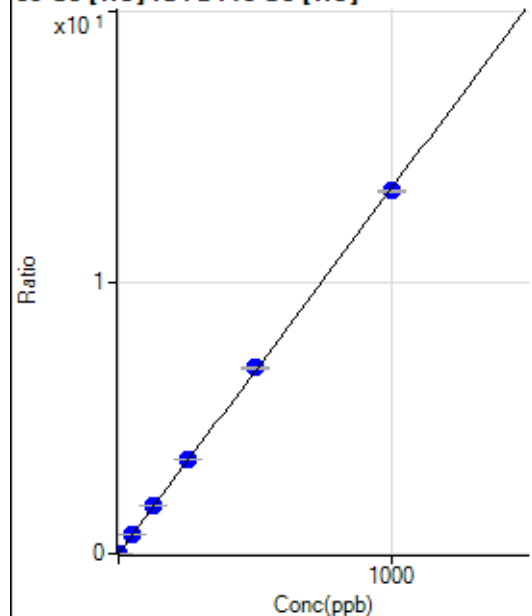
$$DL = 1.084$$

$$BEC = 3.632$$

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	465.57	0.0015	P	10.2
2	☐	0.100	0.099	896.70	0.0029	P	8.5
3	☐	1.000	1.087	4915.31	0.0162	P	4.6
4	☐	50.000	52.383	213388.58	0.7072	P	0.5
5	☐	125.000	131.442	526396.95	1.7721	P	0.6
6	☐	250.000	257.953	991325.46	3.4763	P	0.5
7	☐	500.000	508.147	1817686.22	6.8465	P	1.2
8	☐	1000.000	993.014	3393786.03	13.3779	P	0.4
9	☐			5538.87	0.0211	P	1.7

$$y = 0.0135 * x + 0.0015$$

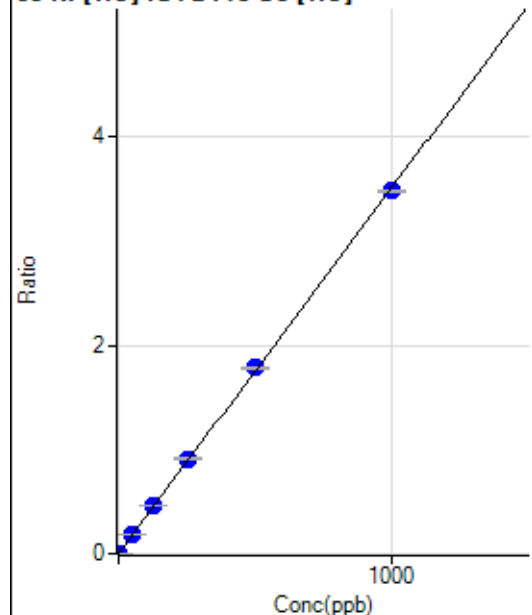
$$R = 0.9999$$

$$DL = 0.03471$$

$$BEC = 0.1138$$

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	130.00	0.0004	P	15.2
2	☐	0.100	0.093	235.56	0.0008	P	9.9
3	☐	1.000	1.146	1351.19	0.0044	P	6.6
4	☐	50.000	53.015	56221.52	0.1863	P	0.8
5	☐	125.000	132.065	137669.59	0.4635	P	0.9
6	☐	250.000	259.390	259458.86	0.9099	P	0.9
7	☐	500.000	508.365	473320.21	1.7828	P	1.4
8	☐	1000.000	992.436	882834.92	3.4800	P	0.5
9	☐			1483.42	0.0057	P	5.4

$$y = 0.0035 * x + 4.2809E-004$$

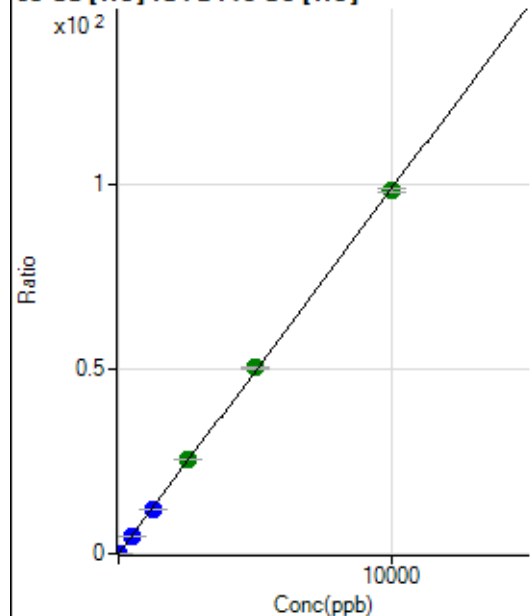
$$R = 0.9999$$

$$DL = 0.05562$$

$$BEC = 0.1221$$

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	723.36	0.0024	P	0.5
2	☐	0.200	0.223	1433.42	0.0046	P	3.6
3	☐	2.000	2.082	6965.06	0.0229	P	2.1
4	☐	500.000	492.417	1465998.15	4.8582	P	0.6
5	☐	1250.000	1219.809	3573773.18	12.0313	P	0.2
6	☐	2500.000	2566.646	7218442.25	25.3128	A	0.4
7	☐	5000.000	5087.736	13320868.41	50.1740	A	1.5
8	☐	10000.000	9943.624	24875994.35	98.0592	A	1.0
9	☐			6922.82	0.0265	P	10.0

$$y = 0.0099 * x + 0.0024$$

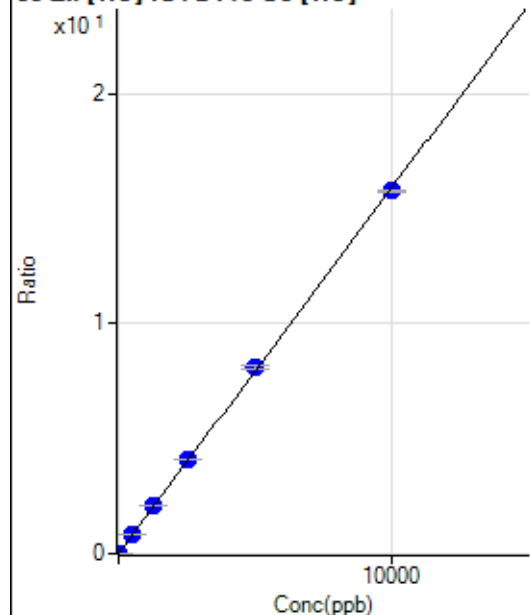
$$R = 0.9999$$

$$DL = 0.003436$$

$$BEC = 0.2416$$

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	250.01	0.0008	P	9.0
2	☒	0.200					
3	☐	2.000	2.559	1486.76	0.0049	P	8.7
4	☐	500.000	524.773	252028.61	0.8352	P	0.9
5	☐	1250.000	1311.121	619479.62	2.0855	P	0.4
6	☐	2500.000	2570.884	1165890.85	4.0886	P	0.8
7	☐	5000.000	5098.931	2152593.95	8.1082	P	1.6
8	☐	10000.000	9923.934	4003191.02	15.7800	P	0.4
9	☐			4218.43	0.0161	P	3.5

$$y = 0.0016 * x + 8.2341E-004$$

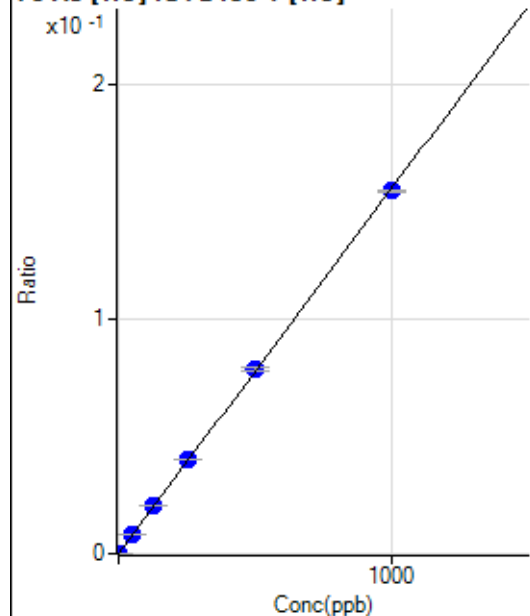
$$R = 0.9999$$

$$DL = 0.1402$$

$$BEC = 0.5179$$

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	6.17	0.0000	P	68.9
2	☐	0.100	0.126	43.21	0.0000	P	9.4
3	☐	1.000	1.118	325.93	0.0002	P	5.7
4	☐	50.000	51.964	14869.97	0.0081	P	2.0
5	☐	125.000	130.499	36902.78	0.0203	P	1.2
6	☐	250.000	259.208	70115.20	0.0404	P	0.6
7	☐	500.000	506.120	129989.44	0.0788	P	1.5
8	☐	1000.000	993.852	244873.56	0.1548	P	0.3
9	☐			108.02	0.0001	P	7.4

$$y = 1.5578E-004 * x + 3.3606E-006$$

$$R = 0.9999$$

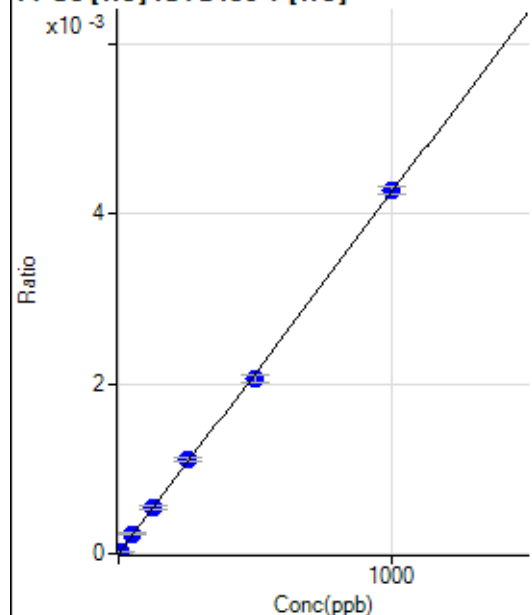
$$DL = 0.04462$$

$$BEC = 0.02157$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	0.500	0.138	1.11	0.0000	P	173.2
3	☐	5.000	4.271	33.34	0.0000	P	17.6
4	☐	50.000	54.646	426.68	0.0002	P	6.4
5	☐	125.000	127.541	984.49	0.0005	P	9.8
6	☐	250.000	261.652	1931.26	0.0011	P	3.2
7	☐	500.000	484.335	3395.98	0.0021	P	4.5
8	☐	1000.000	1004.373	6753.85	0.0043	P	2.2
9	☐			2.22	0.0000	P	173.2

$$y = 4.2516\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9998$$

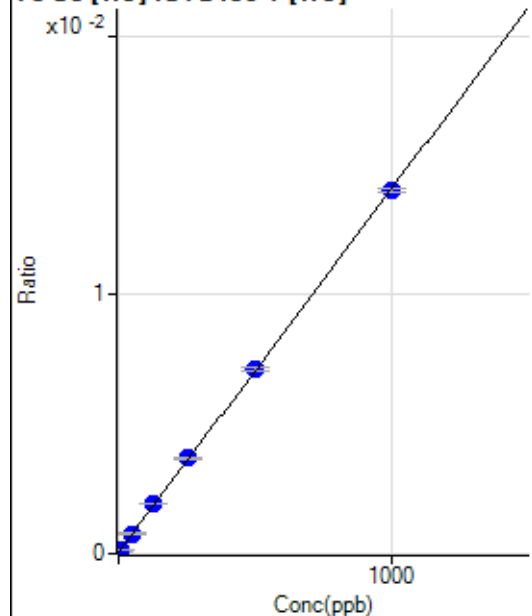
$$DL = 0$$

$$BEC = 0$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	99.38	0.0001	P	22.3
2	☐	0.500	0.980	127.78	0.0001	P	9.7
3	☐	5.000	6.103	256.80	0.0001	P	7.1
4	☐	50.000	51.463	1425.39	0.0008	P	3.9
5	☐	125.000	132.306	3467.71	0.0019	P	1.2
6	☐	250.000	259.730	6421.81	0.0037	P	1.6
7	☐	500.000	503.883	11744.91	0.0071	P	2.1
8	☐	1000.000	994.634	22158.26	0.0140	P	1.2
9	☐			111.73	0.0001	P	7.6

$$y = 1.4031\text{E-}005 * x + 5.4211\text{E-}005$$

$$R = 0.9999$$

$$DL = 2.585$$

$$BEC = 3.864$$

Weight: <None>

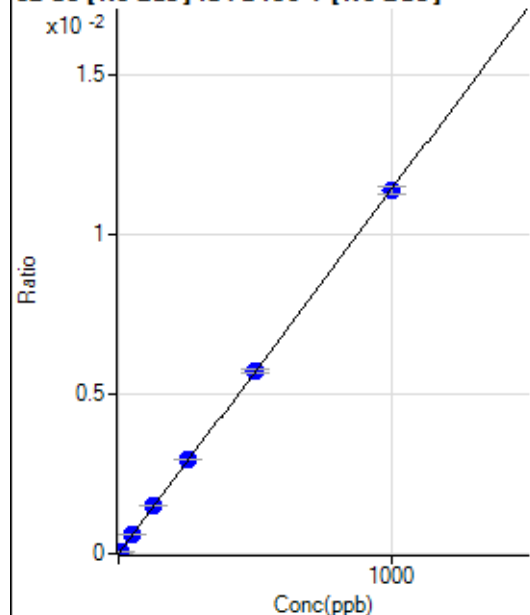
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5843.04		P	2.7
2	☐			5915.29		P	4.0
3	☐			5820.76		P	1.5
4	☐			5484.51		P	4.2
5	☐			5526.19		P	3.6
6	☐			5228.85		P	6.3
7	☐			4823.16		P	3.3
8	☐			4325.77		P	3.1
9	☐			4389.67		P	3.5

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			66.73		P	22.9
2	☐			60.06		P	72.6
3	☐			70.07		P	14.3
4	☐			53.39		P	21.7
5	☐			63.40		P	48.2
6	☐			50.05		P	52.9
7	☐			73.41		P	28.4
8	☐			56.72		P	10.2
9	☐			86.75		P	17.6

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	8.06	0.0000	P	1041.
2	☒	0.500					
3	☐	5.000	5.513	544.23	0.0001	P	31.3
4	☐	50.000	53.172	5173.89	0.0006	P	3.6
5	☐	125.000	130.772	12492.44	0.0015	P	2.2
6	☐	250.000	258.213	24287.25	0.0029	P	1.2
7	☐	500.000	502.144	45749.13	0.0057	P	2.2
8	☐	1000.000	995.992	83755.31	0.0114	P	2.1
9	☐			102.10	0.0000	P	105.0

$$y = 1.1417\text{E-}005 * x + 1.0013\text{E-}006$$

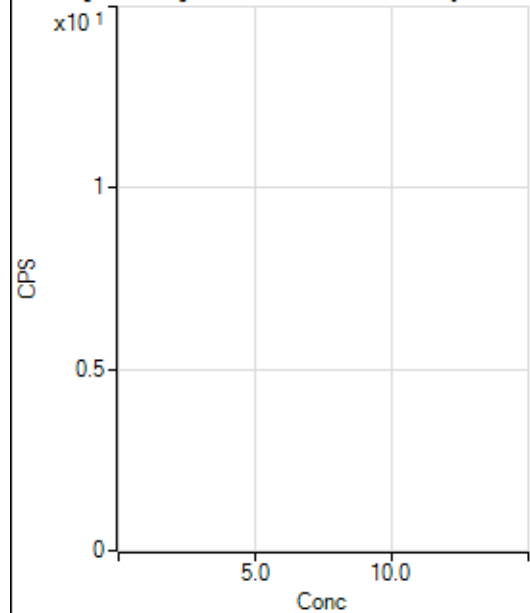
$$R = 1.0000$$

$$DL = 2.741$$

$$BEC = 0.0877$$

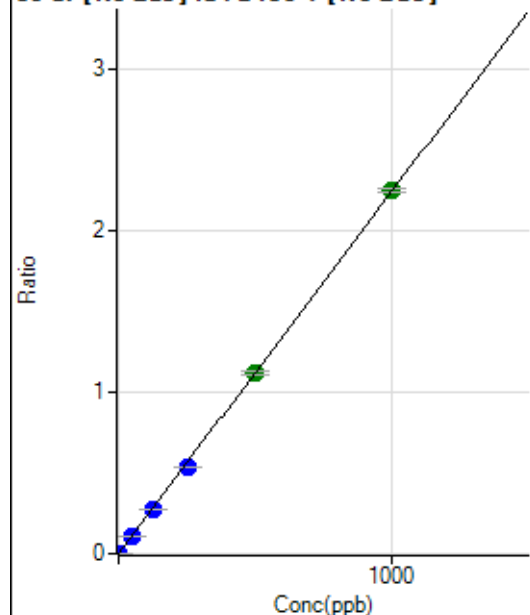
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐			1891.25		P	2.2
2	☐			1875.70		P	2.2
3	☐			1945.71		P	9.7
4	☐			1865.70		P	7.3
5	☐			1865.70		P	3.9
6	☐			1780.13		P	3.4
7	☐			1707.90		P	2.8
8	☐			1647.89		P	1.0
9	☐			1530.10		P	8.1

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	2883.70	0.0003	P	7.4
2	☐	0.100	0.015	3292.14	0.0004	P	1.5
3	☐	1.000	0.096	4750.91	0.0006	P	4.8
4	☐	50.000	49.269	941227.64	0.1106	P	0.4
5	☐	125.000	121.459	2276333.04	0.2722	P	1.9
6	☐	250.000	238.845	4406225.10	0.5350	P	0.8
7	☐	500.000	500.268	8938233.62	1.1201	A	1.7
8	☐	1000.000	1003.135	16542002.45	2.2458	A	0.9
9	☐			10479.08	0.0014	P	8.1

$$y = 0.0022 * x + 3.4381E-004$$

$$R = 0.9999$$

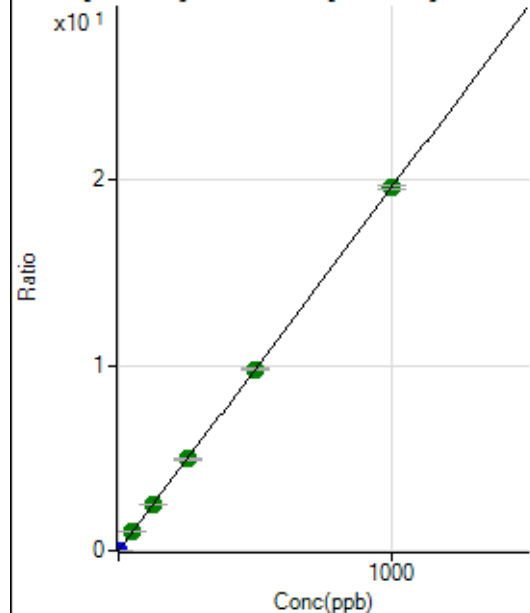
$$DL = 0.03393$$

$$BEC = 0.1536$$

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	155.56	0.0000	P	25.5
2	☐	0.100	0.009	1689.03	0.0002	P	5.0
3	☐	1.000	0.100	16796.35	0.0020	P	2.0
4	☐	50.000	51.130	8518400.71	1.0012	A	0.5
5	☐	125.000	127.457	20871975.47	2.4958	A	1.0
6	☐	250.000	253.070	40812522.44	4.9555	A	1.3
7	☐	500.000	498.540	77902090.63	9.7621	A	1.0
8	☐	1000.000	999.600	144175511.5	19.5735	A	1.0
9	☐			72040.03	0.0098	P	7.3

$$y = 0.0196 * x + 1.8557E-005$$

$$R = 1.0000$$

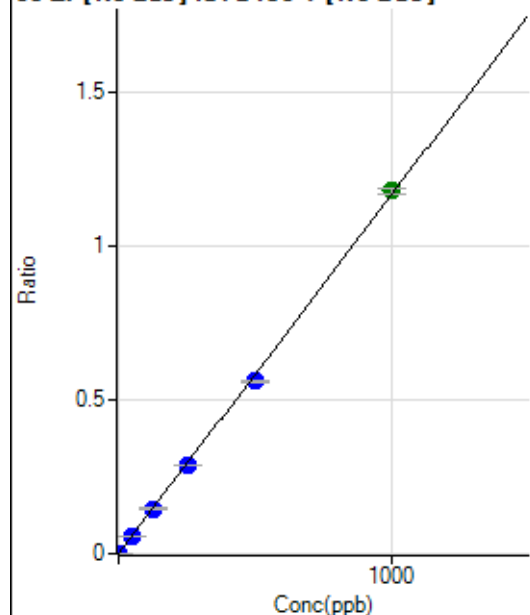
$$DL = 0.0007253$$

$$BEC = 0.0009477$$

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	586.14	0.0001	P	10.2
2	☐	0.100	0.090	1527.90	0.0002	P	2.5
3	☐	1.000	0.943	9967.62	0.0012	P	1.4
4	☐	50.000	49.479	492531.66	0.0579	P	1.0
5	☐	125.000	125.070	1222732.80	0.1462	P	2.3
6	☐	250.000	245.854	2366767.52	0.2874	P	1.4
7	☐	500.000	480.289	4479204.05	0.5613	P	1.5
8	☐	1000.000	1010.909	8701511.31	1.1814	A	1.8
9	☐			3928.43	0.0005	P	7.1

$$y = 0.0012 * x + 6.9861E-005$$

$$R = 0.9997$$

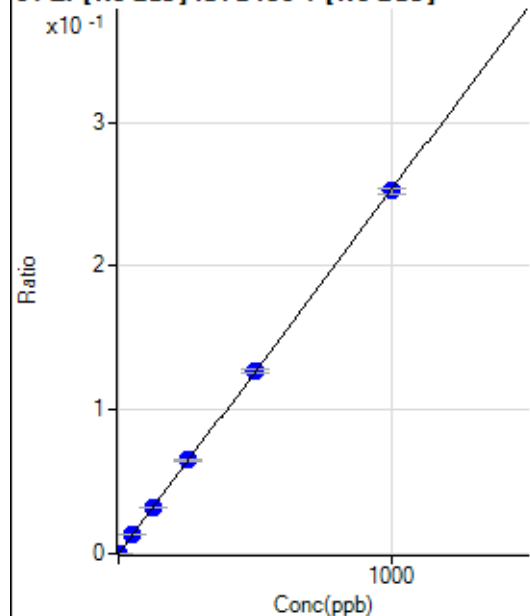
$$DL = 0.01832$$

$$BEC = 0.05978$$

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	119.45	0.0000	P	18.6
2	☐	0.100	0.066	269.46	0.0000	P	13.5
3	☐	1.000	1.078	2441.94	0.0003	P	9.0
4	☐	50.000	50.998	109885.04	0.0129	P	1.3
5	☐	125.000	128.635	272274.63	0.0326	P	1.0
6	☐	250.000	256.708	534966.47	0.0650	P	1.5
7	☐	500.000	502.400	1014243.99	0.1271	P	1.9
8	☐	1000.000	996.619	1857138.32	0.2521	P	1.5
9	☐			925.05	0.0001	P	4.6

$$y = 2.5298E-004 * x + 1.4252E-005$$

$$R = 1.0000$$

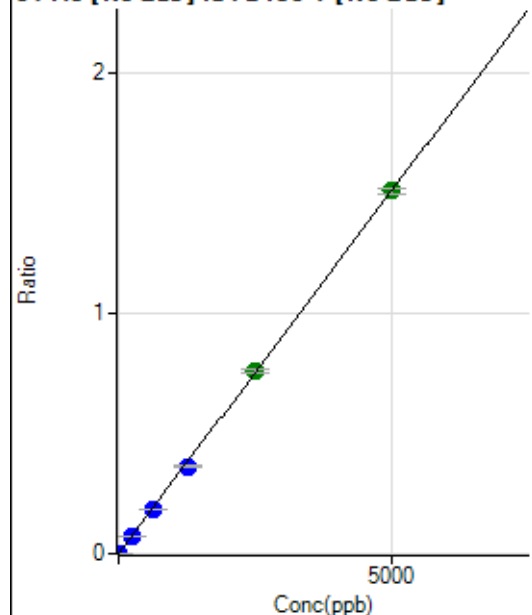
$$DL = 0.03146$$

$$BEC = 0.05633$$

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	247.23	0.0000	P	8.9
2	☐	0.500	0.405	1316.76	0.0002	P	11.6
3	☐	5.000	4.886	12758.77	0.0015	P	6.4
4	☐	250.000	243.397	623923.39	0.0733	P	0.6
5	☐	625.000	615.345	1550081.35	0.1854	P	0.9
6	☐	1250.000	1205.549	2990473.40	0.3631	P	1.3
7	☐	2500.000	2521.611	6060152.00	0.7595	A	1.5
8	☐	5000.000	5001.845	11095719.17	1.5064	A	1.4
9	☐			4917.63	0.0007	P	9.4

$$y = 3.0117\text{E-}004 * x + 2.9433\text{E-}005$$

$$R = 0.9999$$

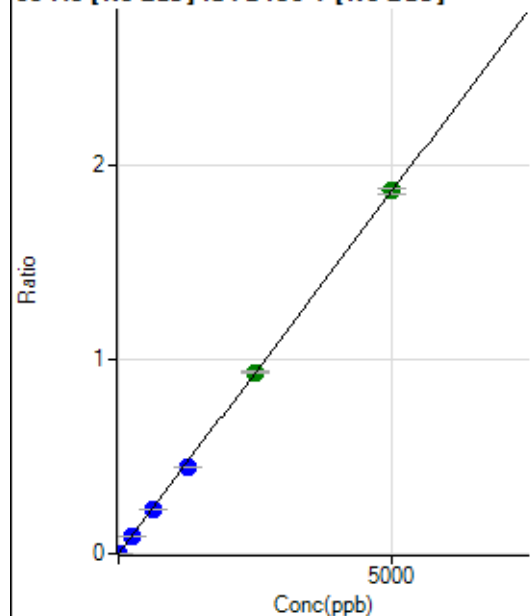
$$DL = 0.02621$$

$$BEC = 0.09773$$

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	11.11	0.0000	P	44.2
2	☐	0.500	0.490	1605.69	0.0002	P	3.2
3	☐	5.000	4.816	15314.09	0.0018	P	2.0
4	☐	250.000	245.637	781009.05	0.0918	P	0.5
5	☐	625.000	616.282	1925940.49	0.2303	P	1.4
6	☐	1250.000	1203.189	3703346.40	0.4496	P	0.7
7	☐	2500.000	2505.581	7471318.74	0.9363	A	1.8
8	☐	5000.000	5010.220	13790402.04	1.8723	A	1.7
9	☐			5868.02	0.0008	P	10.0

$$y = 3.7370\text{E-}004 * x + 1.3266\text{E-}006$$

$$R = 1.0000$$

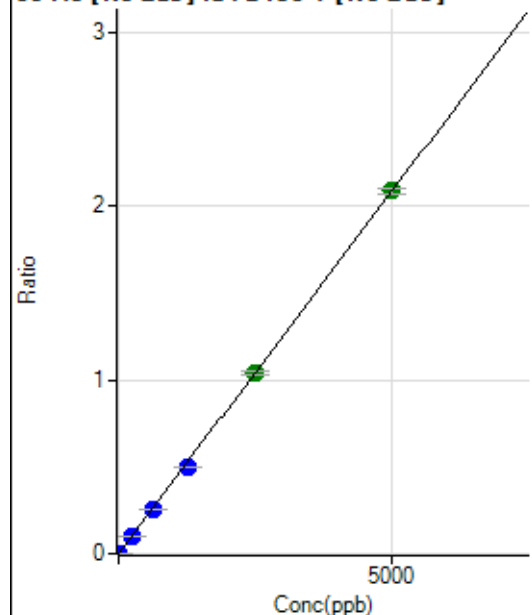
$$DL = 0.004703$$

$$BEC = 0.00355$$

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	80.56	0.0000	P	32.5
2	☐	0.500	0.491	1864.06	0.0002	P	6.3
3	☐	5.000	4.856	17263.64	0.0020	P	1.8
4	☐	250.000	244.276	864876.54	0.1017	P	0.8
5	☐	625.000	615.059	2140191.17	0.2559	P	1.9
6	☐	1250.000	1201.541	4118029.30	0.5000	P	0.7
7	☐	2500.000	2504.033	8313545.58	1.0420	A	2.3
8	☐	5000.000	5011.627	15360102.08	2.0854	A	1.3
9	☐			7213.14	0.0010	P	9.9

$$y = 4.1611\text{E-}004 * x + 9.6201\text{E-}006$$

$$R = 1.0000$$

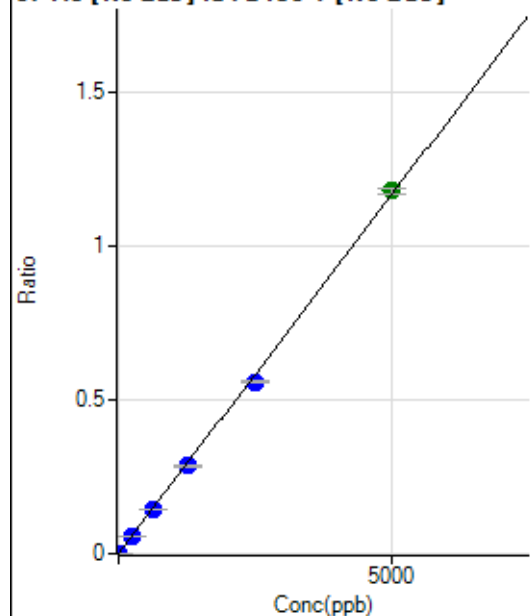
$$DL = 0.02257$$

$$BEC = 0.02312$$

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	11.11	0.0000	P	44.2
2	☐	0.500	0.464	952.83	0.0001	P	12.2
3	☐	5.000	4.950	9831.40	0.0012	P	2.7
4	☐	250.000	248.101	492604.50	0.0579	P	1.2
5	☐	625.000	622.046	1213952.91	0.1452	P	1.3
6	☐	1250.000	1228.230	2360609.19	0.2866	P	1.5
7	☐	2500.000	2398.112	4465469.07	0.5596	P	1.9
8	☐	5000.000	5056.851	8692075.20	1.1801	A	1.4
9	☐			3650.56	0.0005	P	8.1

$$y = 2.3337\text{E-}004 * x + 1.3266\text{E-}006$$

$$R = 0.9997$$

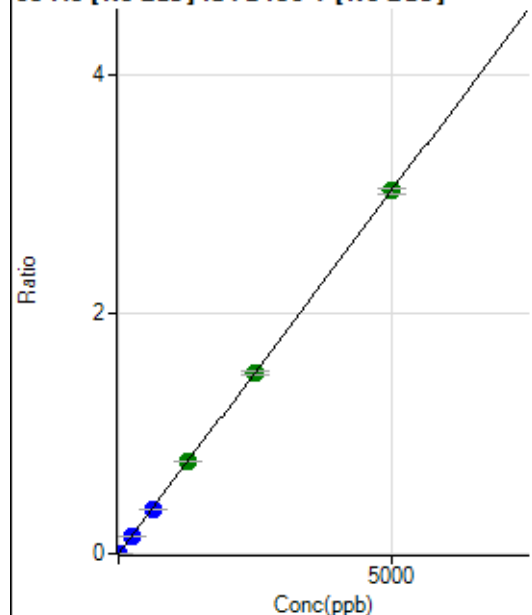
$$DL = 0.007531$$

$$BEC = 0.005685$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	27.78	0.0000	P	63.0
2	☐	0.500	0.470	2514.18	0.0003	P	4.5
3	☐	5.000	4.843	24986.25	0.0029	P	1.6
4	☐	250.000	245.097	1263957.02	0.1486	P	0.9
5	☐	625.000	612.457	3104376.13	0.3712	P	1.5
6	☐	1250.000	1266.375	6321742.41	0.7676	A	1.2
7	☐	2500.000	2498.560	12083079.09	1.5144	A	2.4
8	☐	5000.000	4998.440	22315457.79	3.0297	A	1.3
9	☐			9664.68	0.0013	P	13.2

$$y = 6.0612\text{E-}004 * x + 3.3285\text{E-}006$$

$$R = 1.0000$$

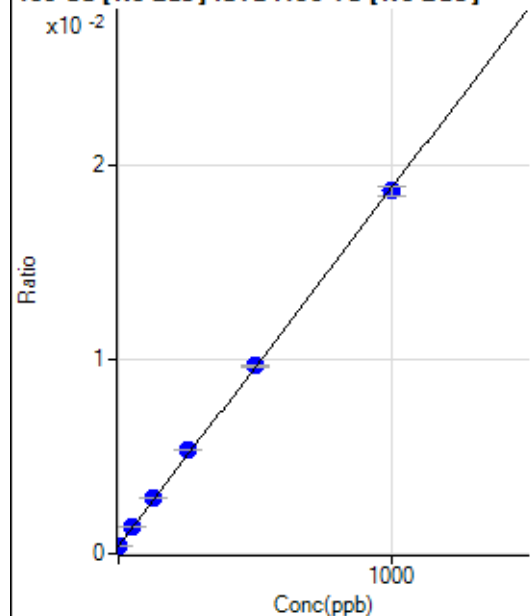
$$DL = 0.01038$$

$$BEC = 0.005491$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3464.40	0.0004	P	3.6
2	☐	0.100	-0.353	3528.32	0.0004	P	0.9
3	☐	1.000	0.415	3553.31	0.0004	P	3.1
4	☐	50.000	54.503	12597.51	0.0014	P	2.1
5	☐	125.000	136.048	26263.67	0.0029	P	1.1
6	☐	250.000	268.351	47758.50	0.0053	P	1.3
7	☐	500.000	502.743	87320.60	0.0097	P	1.1
8	☐	1000.000	992.435	158998.89	0.0187	P	2.3
9	☐			3130.98	0.0004	P	4.1

$$y = 1.8431\text{E-}005 * x + 3.8843\text{E-}004$$

$$R = 0.9998$$

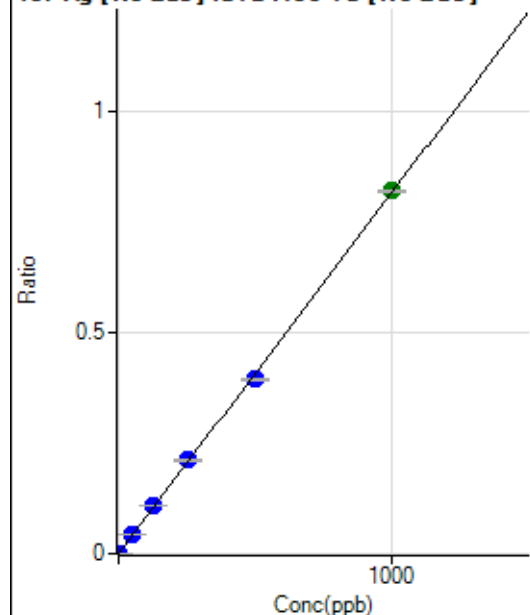
$$DL = 2.258$$

$$BEC = 21.07$$

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	30.55	0.0000	P	67.8
2	☐	0.100	0.085	669.48	0.0001	P	6.6
3	☐	1.000	1.080	7944.06	0.0009	P	2.7
4	☐	50.000	53.889	398165.72	0.0440	P	1.6
5	☐	125.000	132.196	979451.90	0.1080	P	1.6
6	☐	250.000	259.450	1897754.58	0.2120	P	1.3
7	☐	500.000	482.599	3566139.83	0.3943	P	0.3
8	☐	1000.000	1005.244	6991209.66	0.8213	A	0.7
9	☐			3278.26	0.0004	P	14.5

$$y = 8.1698\text{E-}004 * x + 3.4047\text{E-}006$$

$$R = 0.9997$$

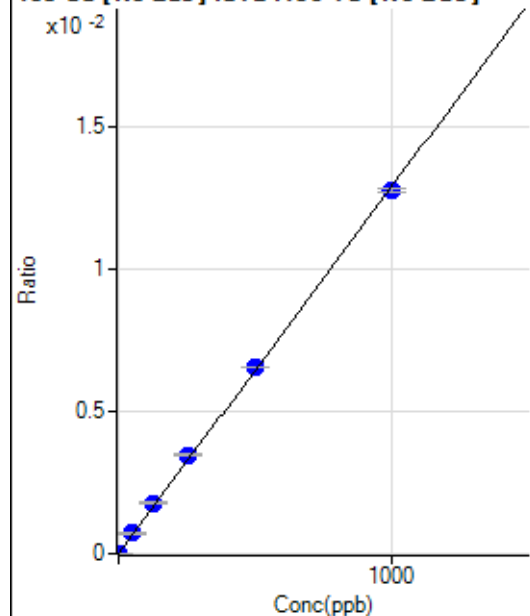
$$DL = 0.008471$$

$$BEC = 0.004167$$

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	18.5
2	☐	0.100	-0.034	33.33	0.0000	P	13.3
3	☐	1.000	1.116	165.28	0.0000	P	13.5
4	☐	50.000	55.396	6493.22	0.0007	P	2.9
5	☐	125.000	136.476	15985.49	0.0018	P	4.0
6	☐	250.000	269.265	31111.89	0.0035	P	1.0
7	☐	500.000	508.627	59329.94	0.0066	P	0.5
8	☐	1000.000	989.166	108558.00	0.0128	P	1.2
9	☐			158.34	0.0000	P	5.6

$$y = 1.2888\text{E-}005 * x + 4.0558\text{E-}006$$

$$R = 0.9997$$

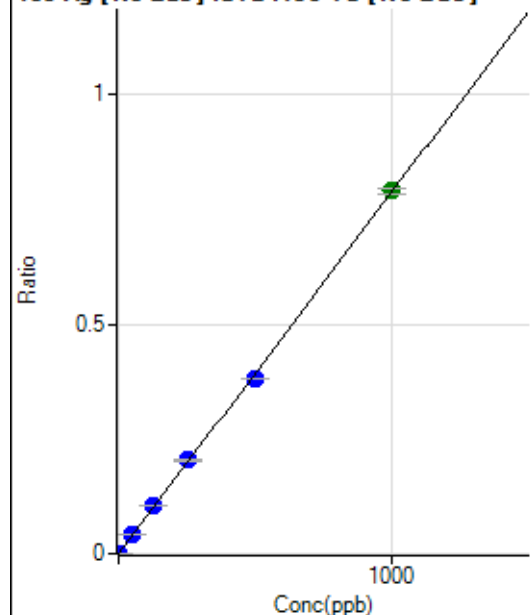
$$DL = 0.1747$$

$$BEC = 0.3147$$

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	8.33	0.0000	P	99.6
2	☐	0.100	0.099	730.59	0.0001	P	9.1
3	☐	1.000	1.021	7210.36	0.0008	P	5.5
4	☐	50.000	53.713	381926.71	0.0422	P	0.2
5	☐	125.000	132.545	945067.92	0.1042	P	1.3
6	☐	250.000	259.273	1825103.56	0.2038	P	0.8
7	☐	500.000	483.711	3439740.18	0.3803	P	0.6
8	☐	1000.000	1004.698	6723646.76	0.7899	A	1.8
9	☐			3178.23	0.0004	P	17.1

$$y = 7.8622\text{E-}004 * x + 9.3979\text{E-}007$$

$$R = 0.9998$$

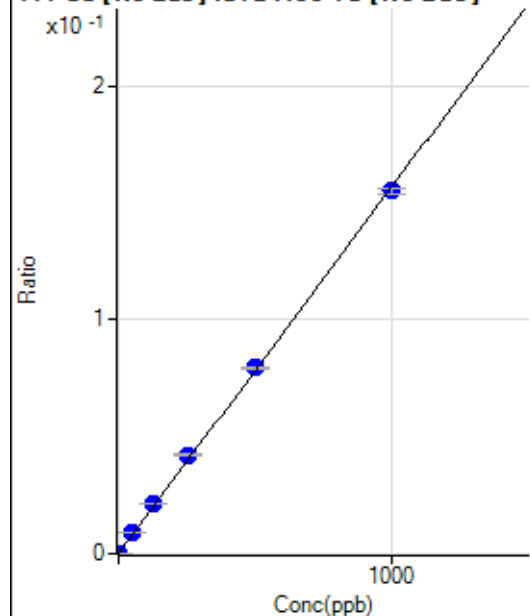
$$DL = 0.003571$$

$$BEC = 0.001195$$

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	673.16	0.0001	P	5.2
2	☐	0.100	0.102	844.83	0.0001	P	5.9
3	☐	1.000	1.212	2379.82	0.0003	P	1.5
4	☐	50.000	54.854	78396.93	0.0087	P	0.7
5	☐	125.000	136.460	194549.29	0.0215	P	1.6
6	☐	250.000	269.437	378554.73	0.0423	P	1.9
7	☐	500.000	506.545	718414.96	0.0794	P	0.5
8	☐	1000.000	990.193	1321005.52	0.1552	P	1.8
9	☐			1113.99	0.0001	P	10.5

$$y = 1.5666\text{E-}004 * x + 7.5465\text{E-}005$$

$$R = 0.9997$$

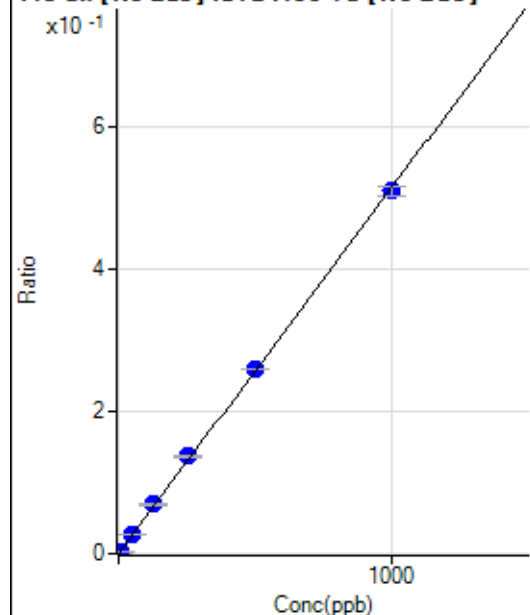
$$DL = 0.07476$$

$$BEC = 0.4817$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	597.25	0.0001	P	13.6
2	☐	0.500	0.546	3208.79	0.0003	P	6.4
3	☐	5.000	5.475	25813.17	0.0029	P	2.2
4	☐	50.000	53.982	251189.77	0.0278	P	1.5
5	☐	125.000	134.650	627402.77	0.0692	P	1.7
6	☐	250.000	265.899	1222568.96	0.1366	P	1.3
7	☐	500.000	505.388	2347006.82	0.2595	P	0.5
8	☐	1000.000	991.923	4334329.00	0.5092	P	2.3
9	☐			2728.13	0.0003	P	7.5

$$y = 5.1331\text{E-}004 * x + 6.6901\text{E-}005$$

$$R = 0.9998$$

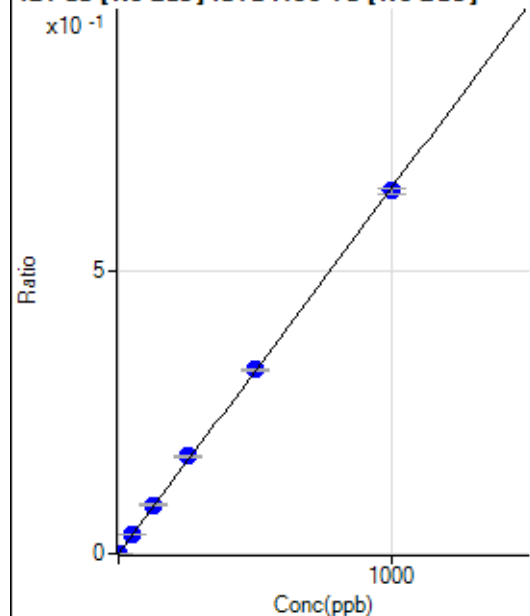
$$DL = 0.05307$$

$$BEC = 0.1303$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	44.45	0.0000	P	58.2
2	☐	0.200	0.217	1341.77	0.0001	P	1.0
3	☐	2.000	2.203	12842.25	0.0014	P	1.1
4	☐	50.000	54.104	316828.15	0.0350	P	1.5
5	☐	125.000	134.119	787528.72	0.0868	P	1.7
6	☐	250.000	265.828	1540916.02	0.1721	P	1.6
7	☐	500.000	503.561	2948962.72	0.3260	P	0.6
8	☐	1000.000	992.917	5472105.85	0.6429	P	1.9
9	☐			5023.25	0.0006	P	3.6

$$y = 6.4746\text{E-}004 * x + 5.0133\text{E-}006$$

$$R = 0.9998$$

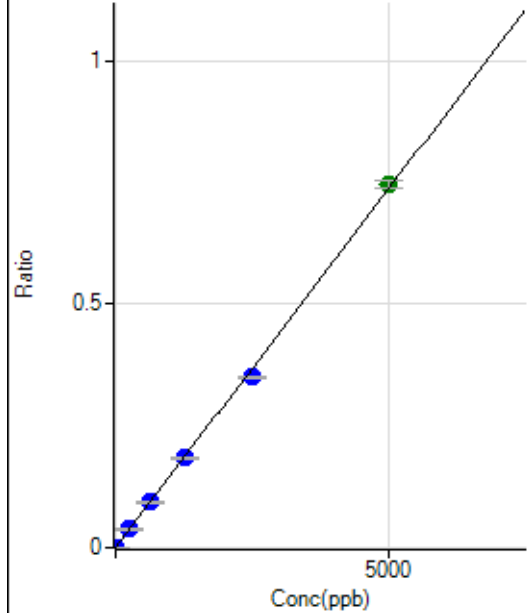
$$DL = 0.01352$$

$$BEC = 0.007743$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	16.67	0.0000	P	51.0
2	☐	1.000	1.015	1400.11	0.0002	P	5.9
3	☐	10.000	10.659	14107.54	0.0016	P	2.6
4	☐	250.000	255.016	339846.52	0.0376	P	1.7
5	☐	625.000	630.822	843029.22	0.0930	P	1.4
6	☐	1250.000	1253.520	1653718.75	0.1847	P	1.6
7	☐	2500.000	2380.720	3173098.86	0.3508	P	0.7
8	☐	5000.000	5057.780	6343960.34	0.7453	A	2.0
9	☐			3572.80	0.0004	P	7.1

$$y = 1.4736E-004 * x + 1.8736E-006$$

$$R = 0.9996$$

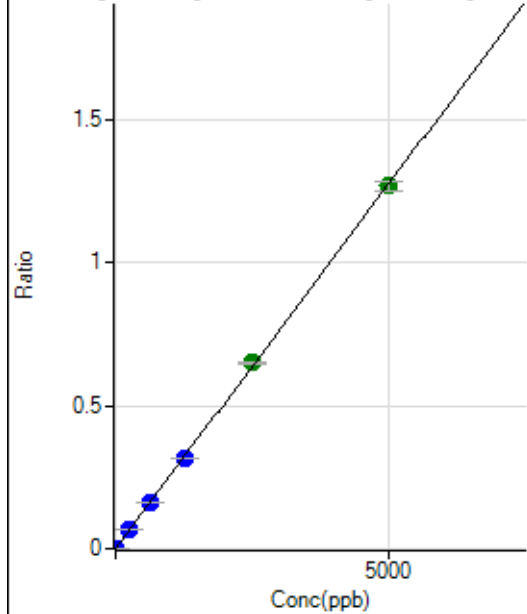
$$DL = 0.01943$$

$$BEC = 0.01271$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	30.56	0.0000	P	30.0
2	☐	1.000	0.991	2366.94	0.0003	P	4.2
3	☐	10.000	10.376	23773.89	0.0027	P	3.5
4	☐	250.000	253.962	585866.21	0.0648	P	1.0
5	☐	625.000	626.906	1450233.82	0.1599	P	1.4
6	☐	1250.000	1237.124	2825173.87	0.3156	P	1.6
7	☐	2500.000	2551.952	5887602.73	0.6510	A	1.5
8	☐	5000.000	4976.806	10805166.47	1.2695	A	2.7
9	☐			6115.42	0.0007	P	10.9

$$y = 2.5508E-004 * x + 3.4182E-006$$

$$R = 0.9999$$

$$DL = 0.01208$$

$$BEC = 0.0134$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.45		P	86.6
2	☐			2.22		P	173.2
3	☐			6.67		P	100.0
4	☐			20.00		P	33.4
5	☐			73.33		P	24.1
6	☐			120.01		P	25.5
7	☐			251.12		P	8.5
8	☐			404.46		P	4.1
9	☐			26.67		P	43.3

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			1.11		P	173.2
3	☐			0.00		P	
4	☐			6.67		P	50.0
5	☐			7.78		P	99.0
6	☐			17.78		P	21.7
7	☐			31.11		P	69.7
8	☐			56.67		P	21.2
9	☐			31.11		P	32.7

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.55		P	86.6
2	☐			5.56		P	173.2
3	☐			5.55		P	86.6
4	☐			27.78		P	69.3
5	☐			66.67		P	33.1
6	☐			83.33		P	17.3
7	☐			205.56		P	22.3
8	☐			388.90		P	32.2
9	☐			1464.01		P	3.8

156 Dy [He] No available calibration points

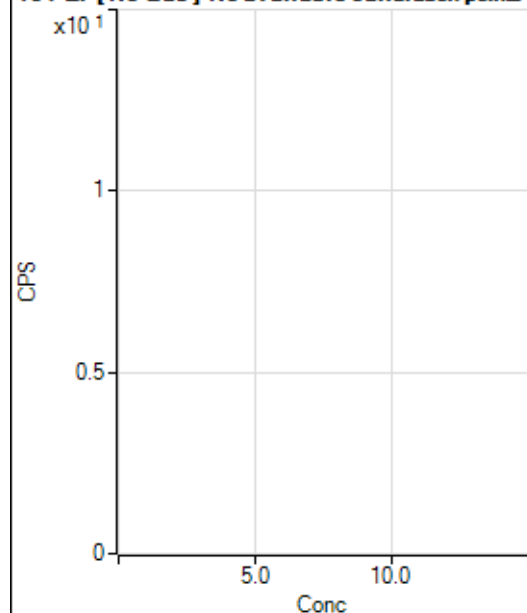
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	100.1
2	☐			1.11		P	173.2
3	☐			1.11		P	173.2
4	☐			21.11		P	48.2
5	☐			42.22		P	18.2
6	☐			76.67		P	24.2
7	☐			135.56		P	17.4
8	☐			268.90		P	8.0
9	☐			946.71		P	9.1

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

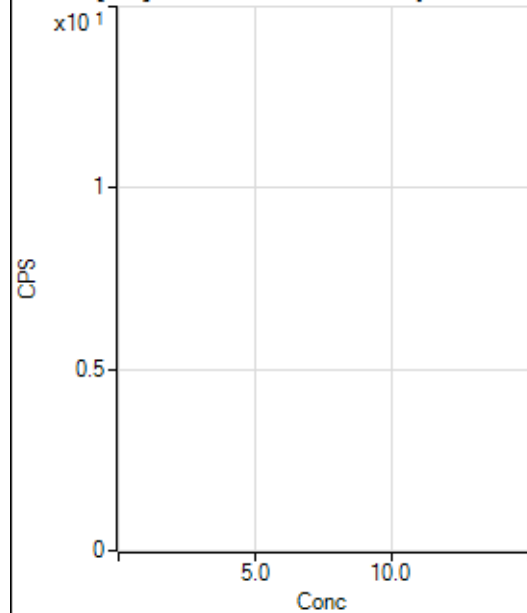
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			41.67		P	40.0
2	☐			55.56		P	17.3
3	☐			36.11		P	48.0
4	☐			83.33		P	26.5
5	☐			102.78		P	20.4
6	☐			144.45		P	20.3
7	☐			194.45		P	25.1
8	☐			355.57		P	4.9
9	☐			1664.03		P	9.5

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			60.00		P	40.1
2	☐			64.45		P	26.0
3	☐			55.56		P	3.5
4	☐			98.89		P	28.3
5	☐			100.00		P	10.0
6	☐			92.22		P	21.8
7	☐			216.67		P	11.1
8	☐			293.34		P	2.0
9	☐			1098.95		P	7.4

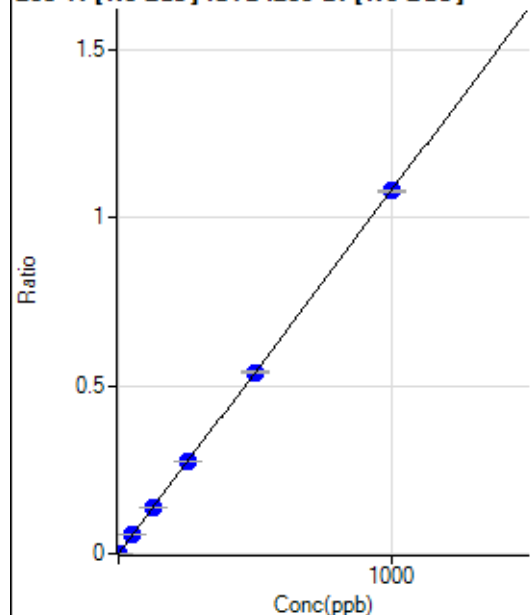
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			63.89		P	15.1
2	☐			30.55		P	68.6
3	☐			55.56		P	43.3
4	☐			44.45		P	65.8
5	☐			63.89		P	27.2
6	☐			69.45		P	18.3
7	☐			72.23		P	24.0
8	☐			133.34		P	41.0
9	☐			280.57		P	24.2

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			42.22		P	27.7
2	☐			32.22		P	23.9
3	☐			32.22		P	41.8
4	☐			31.11		P	16.4
5	☐			37.78		P	5.1
6	☐			38.89		P	4.9
7	☐			53.33		P	22.5
8	☐			67.78		P	11.4
9	☐			155.56		P	10.8

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	33.33	0.0000	P	74.5
2	☐	0.100	0.093	630.59	0.0001	P	10.2
3	☐	1.000	1.081	6726.91	0.0012	P	2.7
4	☐	50.000	51.154	323144.20	0.0552	P	0.5
5	☐	125.000	128.714	805071.97	0.1389	P	0.9
6	☐	250.000	254.452	1582723.38	0.2747	P	1.5
7	☐	500.000	499.001	3099384.40	0.5387	P	0.9
8	☐	1000.000	998.864	5885044.71	1.0782	P	0.6
9	☐			3167.13	0.0006	P	22.4

$$y = 0.0011 * x + 5.7838E-006$$

$$R = 1.0000$$

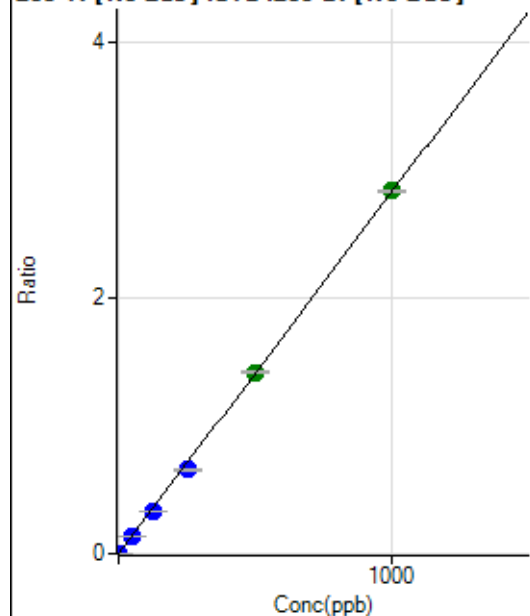
$$DL = 0.01198$$

$$BEC = 0.005358$$

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	47.22	0.0000	P	37.6
2	☐	0.100	0.093	1600.15	0.0003	P	6.5
3	☐	1.000	0.962	15620.74	0.0027	P	3.1
4	☐	50.000	47.304	780730.98	0.1334	P	0.9
5	☐	125.000	117.902	1926665.32	0.3325	P	1.4
6	☐	250.000	232.463	3778056.38	0.6556	P	1.2
7	☐	500.000	501.599	8140431.43	1.4147	A	1.0
8	☐	1000.000	1004.607	15465041.49	2.8334	A	0.6
9	☐			7802.63	0.0015	P	20.8

$$y = 0.0028 * x + 8.2468E-006$$

$$R = 0.9998$$

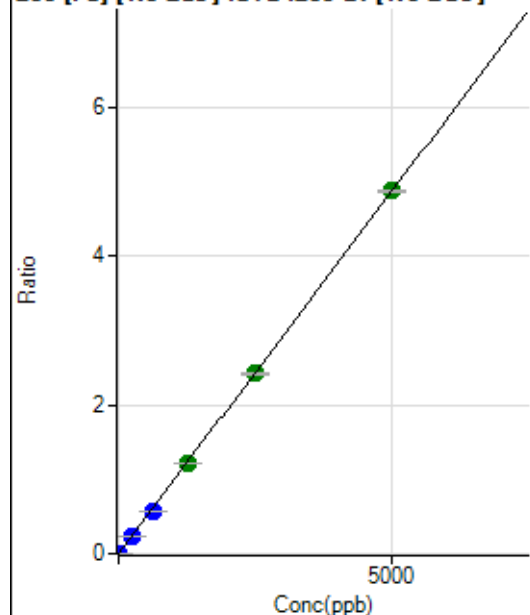
$$DL = 0.003302$$

$$BEC = 0.002924$$

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	124.08	0.0000	P	13.1
2	☐	0.100	0.094	668.55	0.0001	P	9.6
3	☐	1.000	0.984	5621.64	0.0010	P	4.6
4	☐	250.000	231.630	1320021.13	0.2256	P	1.0
5	☐	625.000	577.599	3259085.43	0.5625	P	1.2
6	☐	1250.000	1252.672	7029824.23	1.2199	A	1.0
7	☐	2500.000	2490.248	13953627.39	2.4251	A	0.8
8	☐	5000.000	5011.052	26635515.18	4.8800	A	0.3
9	☐			19292.05	0.0038	P	2.7

$$y = 9.7384\text{E-}004 * x + 2.1610\text{E-}005$$

$$R = 1.0000$$

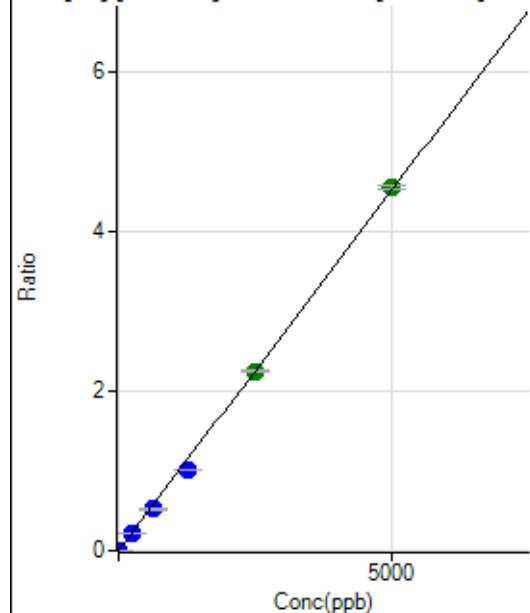
$$DL = 0.008719$$

$$BEC = 0.02219$$

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	81.48	0.0000	P	8.7
2	☐	0.100	0.104	637.07	0.0001	P	6.0
3	☐	1.000	0.940	4956.58	0.0009	P	4.8
4	☐	250.000	229.530	1213810.94	0.2074	P	0.7
5	☐	625.000	576.011	3015922.38	0.5205	P	1.3
6	☐	1250.000	1128.091	5874426.40	1.0194	P	1.2
7	☐	2500.000	2496.474	12981078.30	2.2560	A	0.6
8	☐	5000.000	5039.388	24855869.54	4.5540	A	1.0
9	☐			17875.23	0.0035	P	2.7

$$y = 9.0368\text{E-}004 * x + 1.4206\text{E-}005$$

$$R = 0.9997$$

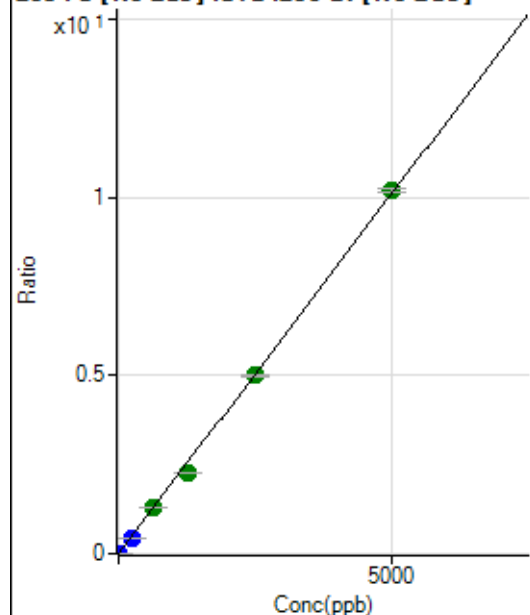
$$DL = 0.00411$$

$$BEC = 0.01572$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	170.37	0.0000	P	4.6
2	☐	0.100	0.095	1313.05	0.0002	P	18.6
3	☐	1.000	0.902	10627.33	0.0019	P	5.2
4	☐	250.000	225.254	2661817.12	0.4549	P	1.3
5	☐	625.000	633.557	7412968.63	1.2793	A	0.2
6	☐	1250.000	1129.443	13142120.32	2.2807	A	1.0
7	☐	2500.000	2474.359	28749818.00	4.9964	A	1.2
8	☐	5000.000	5043.128	55581372.53	10.1834	A	0.9
9	☐			39755.45	0.0078	P	5.5

$$y = 0.0020 * x + 2.9697E-005$$

$$R = 0.9997$$

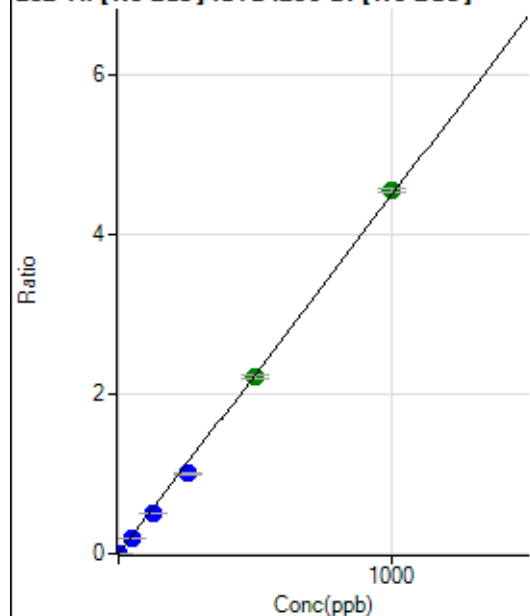
$$DL = 0.002028$$

$$BEC = 0.01471$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	281.49	0.0000	P	22.9
2	☐	0.100	-0.002	237.04	0.0000	P	5.1
3	☐	1.000	-0.003	214.82	0.0000	P	13.8
4	☐	50.000	44.380	1165528.73	0.1992	P	0.3
5	☐	125.000	112.533	2925651.13	0.5050	P	1.5
6	☐	250.000	223.675	5783370.15	1.0037	P	1.4
7	☐	500.000	491.868	12699308.85	2.2070	A	1.9
8	☐	1000.000	1012.488	24795898.93	4.5430	A	1.1
9	☐			9542.60	0.0019	P	14.2

$$y = 0.0045 * x + 4.9034E-005$$

$$R = 0.9996$$

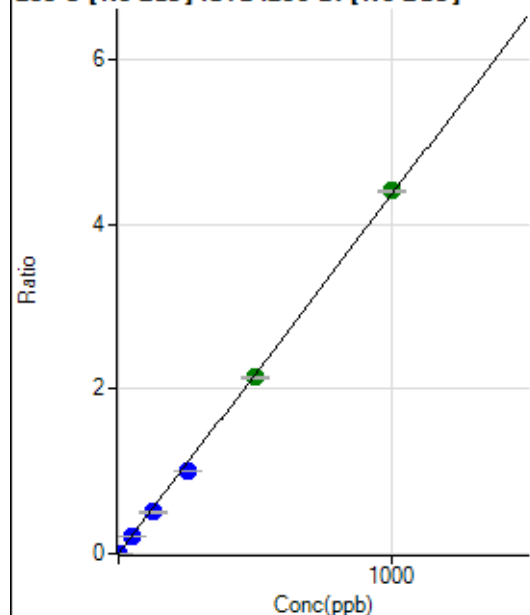
$$DL = 0.007503$$

$$BEC = 0.01093$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	16.67	0.0000	P	100.4
2	☐	0.100	0.087	2250.26	0.0004	P	6.0
3	☐	1.000	0.890	22241.78	0.0039	P	3.0
4	☐	50.000	45.801	1166803.18	0.1994	P	0.5
5	☐	125.000	115.913	2923414.10	0.5046	P	2.4
6	☐	250.000	229.482	5756922.57	0.9991	P	1.3
7	☐	500.000	491.305	12307605.22	2.1389	A	1.4
8	☐	1000.000	1010.823	24019407.48	4.4007	A	0.4
9	☐			8294.53	0.0016	P	9.7

$$y = 0.0044 * x + 2.9209E-006$$

$$R = 0.9997$$

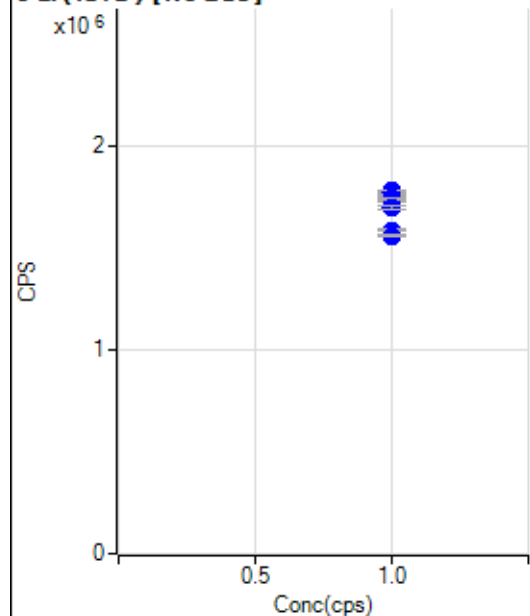
$$DL = 0.00202$$

$$BEC = 0.0006709$$

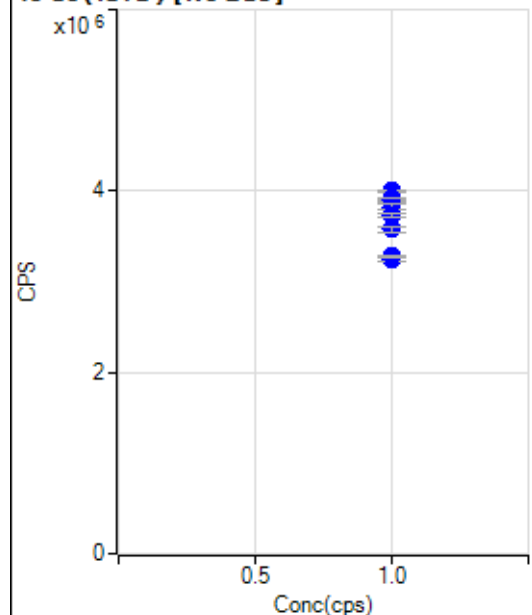
Weight: <None>

Min Conc: 0

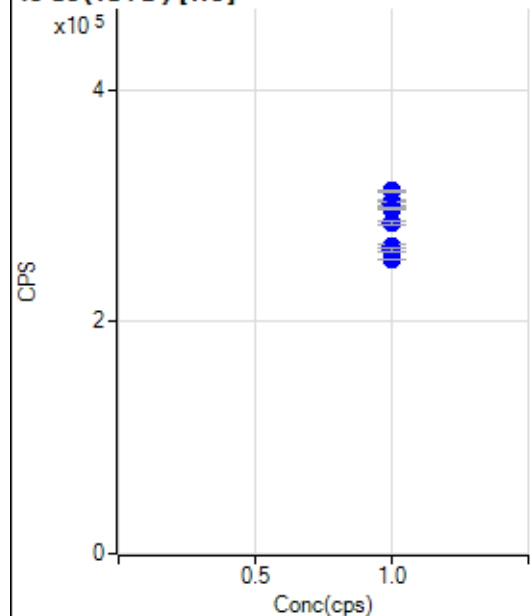
6 Li (ISTD) [No Gas]



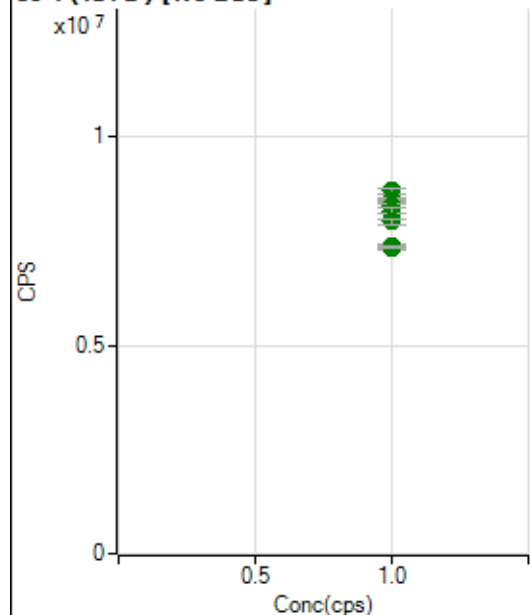
	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1732005.91		P	0.7
2	☐	1.000		1782047.92		P	0.5
3	☐	1.000		1759736.76		P	1.0
4	☐	1.000		1776035.58		P	1.2
5	☐	1.000		1750783.20		P	0.9
6	☐	1.000		1743030.62		P	0.4
7	☐	1.000		1700906.15		P	0.7
8	☐	1.000		1589669.14		P	0.4
9	☐	1.000		1563052.48		P	1.1

45 Sc (ISTD) [No Gas]

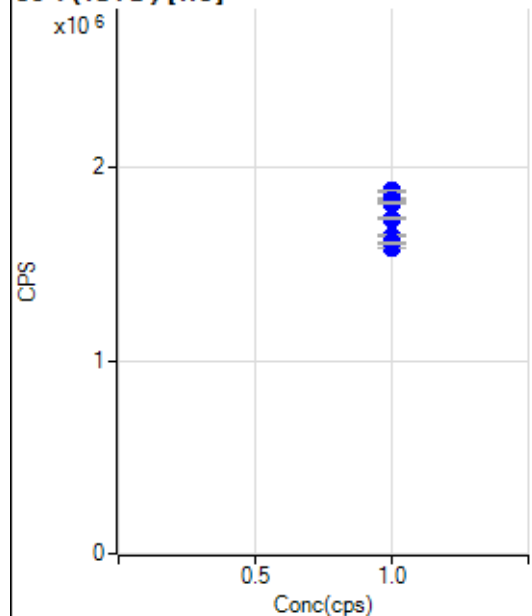
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		3890714.67		P	0.9
2	☐	1.000		4002181.22		P	0.7
3	☐	1.000		3907524.35		P	0.9
4	☐	1.000		3924195.74		P	0.3
5	☐	1.000		3827983.62		P	1.3
6	☐	1.000		3731766.79		P	1.1
7	☐	1.000		3577692.03		P	1.4
8	☐	1.000		3246065.68		P	0.8
9	☐	1.000		3278210.26		P	0.2

45 Sc (ISTD) [He]

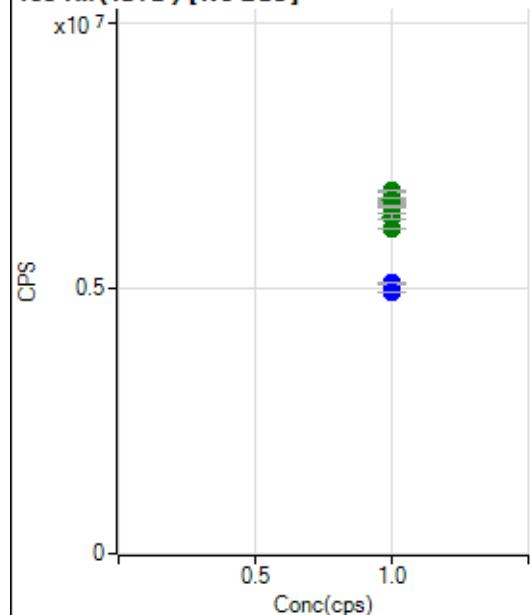
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		303563.99		P	0.4
2	☐	1.000		312797.96		P	0.5
3	☐	1.000		303962.52		P	0.7
4	☐	1.000		301762.92		P	0.7
5	☐	1.000		297039.03		P	0.5
6	☐	1.000		285174.85		P	1.1
7	☐	1.000		265517.33		P	1.2
8	☐	1.000		253690.27		P	0.5
9	☐	1.000		261899.36		P	1.0

89 Y (ISTD) [No Gas]

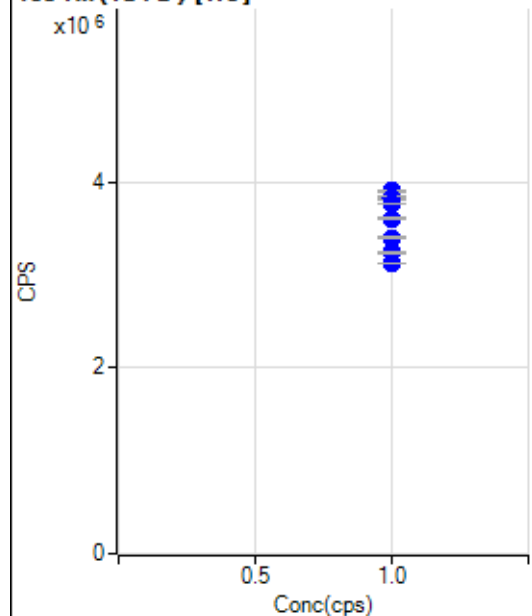
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		8393304.88		A	1.4
2	☐	1.000		8711794.11		A	1.9
3	☐	1.000		8502925.29		A	0.7
4	☐	1.000		8508161.19		A	0.5
5	☐	1.000		8363561.89		A	1.4
6	☐	1.000		8236928.07		A	1.5
7	☐	1.000		7980919.67		A	1.8
8	☐	1.000		7366463.78		A	1.4
9	☐	1.000		7352752.04		A	0.4

89 Y (ISTD) [He]

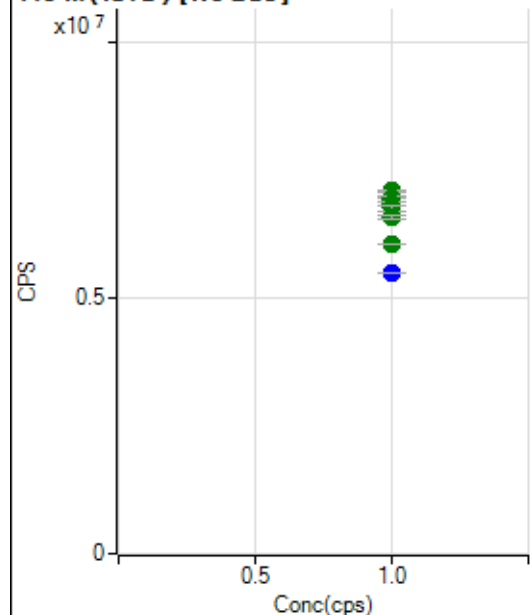
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		1832901.69		P	0.4
2	☐	1.000		1880521.73		P	0.5
3	☐	1.000		1836491.41		P	0.5
4	☐	1.000		1836253.86		P	0.3
5	☐	1.000		1815028.29		P	0.6
6	☐	1.000		1736217.79		P	0.7
7	☐	1.000		1648757.67		P	0.8
8	☐	1.000		1581605.17		P	0.0
9	☐	1.000		1614617.67		P	0.6

103 Rh (ISTD) [No Gas]

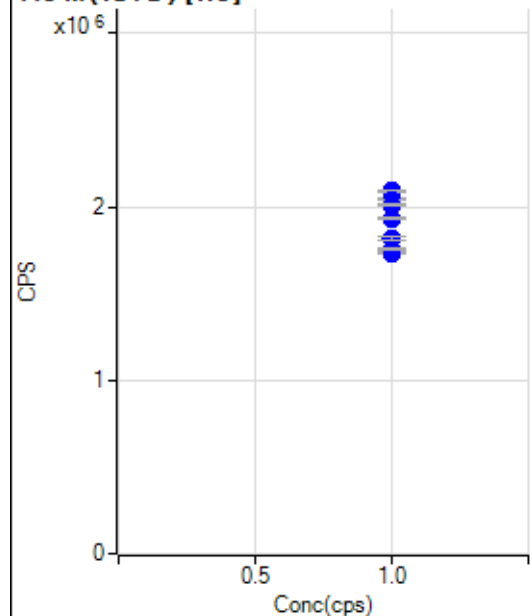
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		6640750.39		A	1.4
2	☐	1.000		6847091.91		A	0.8
3	☐	1.000		6673228.16		A	0.7
4	☐	1.000		6663361.43		A	1.4
5	☐	1.000		6543008.93		A	0.7
6	☐	1.000		6365750.25		A	1.3
7	☐	1.000		6134908.87		A	0.4
8	☐	1.000		5107965.13		P	0.4
9	☐	1.000		4926228.71		P	0.2

103 Rh (ISTD) [He]

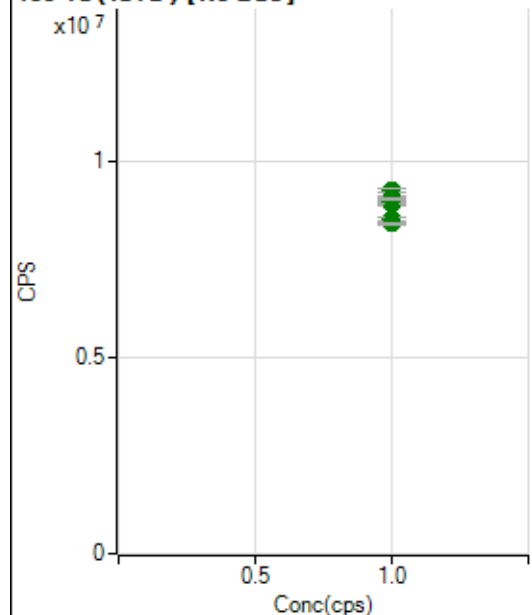
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		3824326.16		P	0.2
2	☐	1.000		3900289.32		P	0.9
3	☐	1.000		3817196.37		P	0.5
4	☐	1.000		3822621.44		P	0.7
5	☐	1.000		3764759.53		P	0.4
6	☐	1.000		3599671.13		P	0.5
7	☐	1.000		3397546.03		P	0.6
8	☐	1.000		3239336.44		P	0.5
9	☐	1.000		3122529.64		P	0.4

115 In (ISTD) [No Gas]

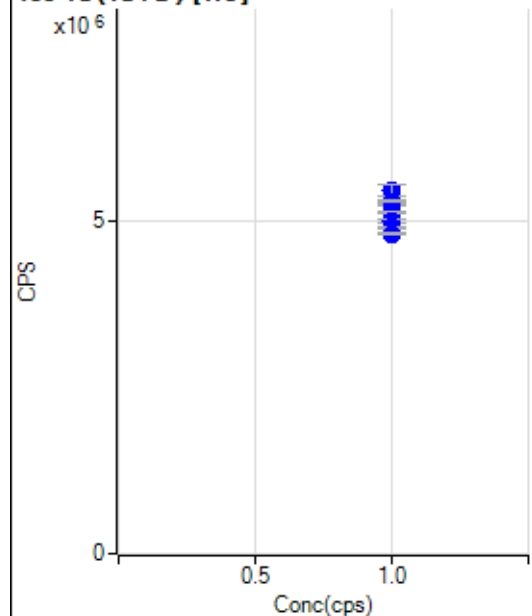
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		6913655.96		A	1.0
2	☐	1.000		7090774.87		A	0.5
3	☐	1.000		6900626.91		A	1.1
4	☐	1.000		6937919.17		A	1.5
5	☐	1.000		6836579.26		A	1.3
6	☐	1.000		6748440.89		A	1.5
7	☐	1.000		6578779.25		A	1.7
8	☐	1.000		6060543.97		A	0.3
9	☐	1.000		5479495.69		P	0.2

115 In (ISTD) [He]

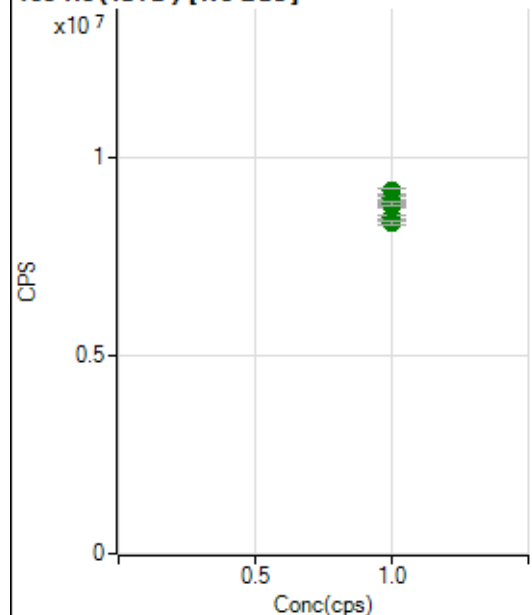
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2049792.72		P	0.7
2	☐	1.000		2092410.80		P	0.8
3	☐	1.000		2041682.87		P	0.2
4	☐	1.000		2039983.28		P	0.5
5	☐	1.000		2012730.27		P	0.6
6	☐	1.000		1931328.75		P	0.6
7	☐	1.000		1819925.95		P	0.9
8	☐	1.000		1734942.89		P	0.5
9	☐	1.000		1753335.18		P	0.6

159 Tb (ISTD) [No Gas]

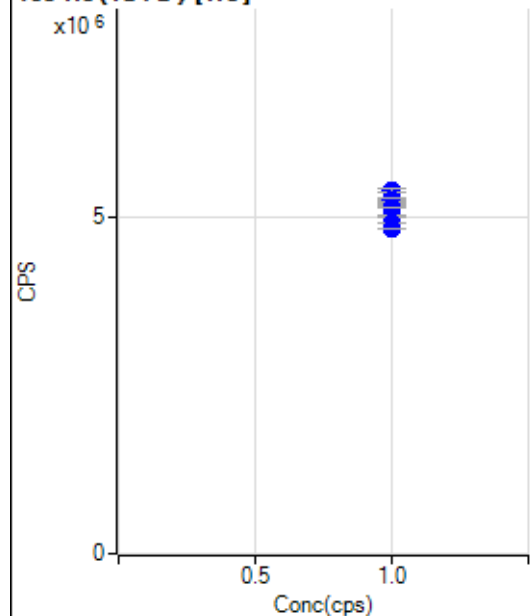
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8916081.88		A	1.5
2	☐	1.000		9238012.36		A	1.1
3	☐	1.000		8972059.87		A	0.8
4	☐	1.000		9043791.04		A	0.7
5	☐	1.000		9069866.74		A	1.3
6	☐	1.000		8953992.16		A	1.5
7	☐	1.000		9044832.43		A	0.3
8	☐	1.000		8513249.53		A	1.3
9	☐	1.000		8397459.53		A	0.5

159 Tb (ISTD) [He]

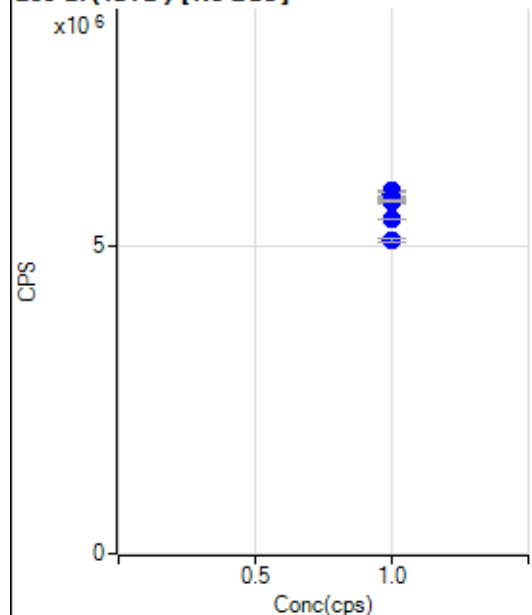
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5255934.54		P	1.0
2	☐	1.000		5437386.83		P	3.2
3	☐	1.000		5224366.59		P	0.5
4	☐	1.000		5269723.15		P	1.6
5	☐	1.000		5277523.36		P	0.5
6	☐	1.000		5125191.04		P	0.4
7	☐	1.000		4983207.67		P	1.2
8	☐	1.000		4890649.27		P	0.4
9	☐	1.000		4797863.65		P	0.5

165 Ho (ISTD) [No Gas]

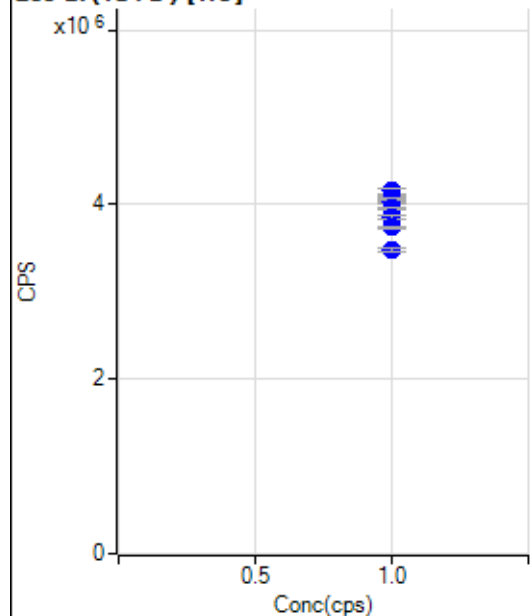
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8796035.15		A	1.8
2	☐	1.000		9163122.50		A	1.9
3	☐	1.000		8771690.36		A	0.7
4	☐	1.000		8952060.70		A	1.6
5	☐	1.000		8978522.64		A	1.8
6	☐	1.000		8883397.58		A	1.3
7	☐	1.000		8843363.97		A	1.1
8	☐	1.000		8492584.39		A	1.4
9	☐	1.000		8354193.42		A	1.4

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5246135.37		P	0.8
2	☐	1.000		5398682.35		P	1.1
3	☐	1.000		5202374.92		P	0.7
4	☐	1.000		5260665.58		P	0.9
5	☐	1.000		5267408.53		P	0.7
6	☐	1.000		5146750.41		P	0.3
7	☐	1.000		5020501.18		P	0.8
8	☐	1.000		4921029.92		P	0.5
9	☐	1.000		4841634.09		P	0.3

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		5738510.12		P	0.9
2	☐	1.000		5912888.73		P	0.4
3	☐	1.000		5738846.09		P	1.2
4	☐	1.000		5851728.39		P	1.1
5	☐	1.000		5794509.29		P	1.6
6	☐	1.000		5762900.19		P	1.2
7	☐	1.000		5753802.90		P	0.8
8	☐	1.000		5458117.80		P	0.2
9	☐	1.000		5108896.18		P	0.7

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		4048284.38		P	1.0
2	☐	1.000		4156715.84		P	1.6
3	☐	1.000		4029495.39		P	0.7
4	☐	1.000		4081130.32		P	1.2
5	☐	1.000		4059433.10		P	0.8
6	☐	1.000		3957690.36		P	0.6
7	☐	1.000		3848366.57		P	1.3
8	☐	1.000		3741455.74		P	0.5
9	☐	1.000		3481304.36		P	0.7

US EPA Tune Check Sample Report

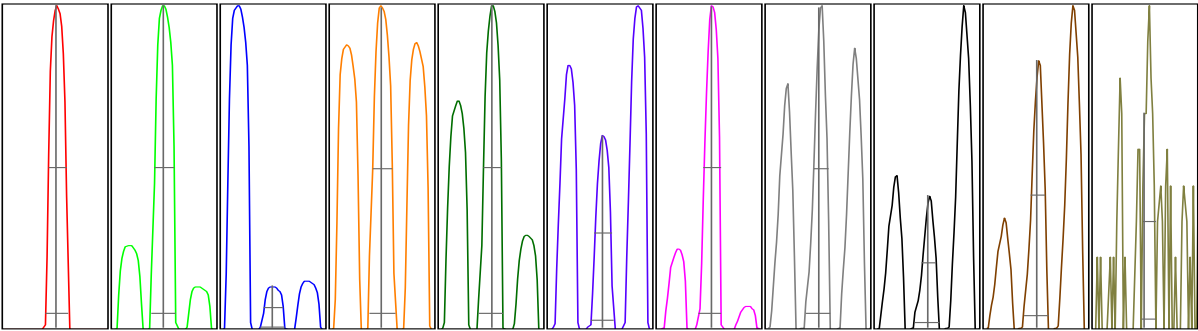
Batch Folder C:\Agilent\ICPMH\1\DATA\P7060921SMS.b
Report Comment
Instrument Name G8403A JP14410463

[No Gas]

Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)	RSD% (Flag)
9	9133	1.27	5.00	
24	86758	1.01	5.00	
25	11263	0.55	5.00	
26	12944	0.90	5.00	
59	45895	0.90	5.00	
113	10745	1.16	5.00	
115	72140	0.60	5.00	
206	23523	0.56	5.00	
207	20313	0.84	5.00	
208	49266	0.90	5.00	
220	0	46.77		

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
9	9133	8939	9238	9150	9202
24	86472	85497	87885	86851	87083
25	11277	11155	11282	11285	11314
26	12862	12793	13086	12966	13014
59	45551	45368	46335	46060	46162
113	10626	10646	10938	10761	10754
115	72297	71814	72825	71791	71973
206	23308	23526	23627	23634	23522
207	20116	20202	20520	20269	20459
208	48946	48663	49496	49718	49506
220	0	0	0	0	0

Integration Time [sec] = 0.1



Mass	Peak Height	Axis (Actual)	Axis (Required)	Axis (Flag)	Width-X% (Actual)	Width-X% (Required)	Width- X% (Flag)
9	17488	9.05	8.9 - 9.1		0.685	0.900	
24	150499	24.00	23.9 - 24.1		0.734	0.900	
25	19851	25.00	24.9 - 25.1		0.698	0.900	
26	22537	26.00	25.9 - 26.1		0.775	0.900	
59	86724	59.05	58.9 - 59.1		0.719	0.900	
113	22823	113.10	112.9 - 113.1		0.681	0.900	
115	153917	115.10	114.9 - 115.1		0.661	0.900	
206	55223	206.05	205.9 - 206.1		0.714	0.900	
207	48373	207.05	206.9 - 207.1		0.721	0.900	
208	117375	208.05	207.9 - 208.1		0.710	0.900	
220	0	220.00	-		0.443		

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	0.65	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		0.45 L/min

Lenses Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Extract 1	0.0	V	Omega Lens	10.7	V	Deflect	14.0	V
Extract 2	-165.0	V	Cell Entrance	-30	V	Plate Bias	-35	V
Omega Bias	-85	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	200	V			

[He]

Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)
59	16632	0.81	
89	34008	0.91	
205	11901	0.82	

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
59	16433	16622	16715	16599	16791
89	33574	33846	34195	34054	34369
205	11751	11915	11938	11880	12018

Integration Time [sec] = 0.1

Tune Parameters

Plasma Paramters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
RF Power	1600	W	Carrier Gas	0.65	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		0.45 L/min

Lenses Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Extract 1	0.0	V	Omega Lens	10.3	V	Deflect	2.4	V
Extract 2	-155.0	V	Cell Entrance	-40	V	Plate Bias	-60	V
Omega Bias	-80	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	190	V			