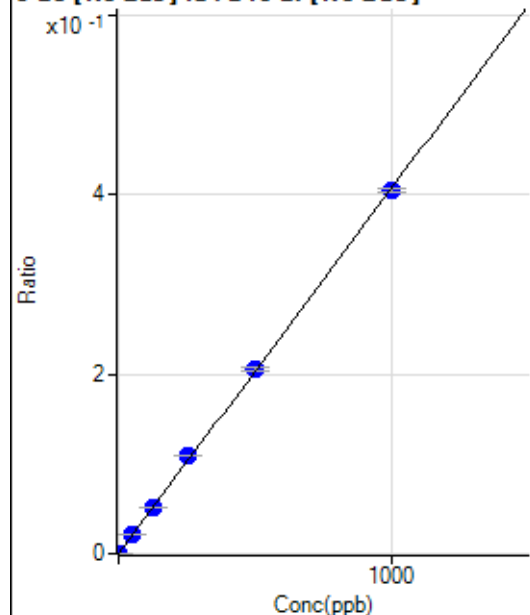


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8040121-MS.b\
Analysis File: P8040121-MS.batch.bin
DA Date-Time: 2021-04-01 14:02:40
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2021-04-01 11:25:50
2	005CALS.d	S02	2021-04-01 11:32:09
3	006CALS.d	S03	2021-04-01 11:35:20
4	007CALS.d	S04	2021-04-01 11:38:28
5	008CALS.d	S05	2021-04-01 11:41:35
6	009CALS.d	S06	2021-04-01 11:44:33
7	010CALS.d	S07	2021-04-01 11:47:33
8	011CALS.d	S08	2021-04-01 11:50:31

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	41.99	0.0000	P	49.3
2	☐	1.000	0.993	747.88	0.0004	P	7.0
3	☐	50.000	50.765	36601.84	0.0207	P	1.2
4	☐	125.000	126.554	90887.10	0.0515	P	2.5
5	☐	250.000	268.628	193120.32	0.1092	P	1.0
6	☐	500.000	503.822	359700.19	0.2048	P	1.7
7	☐	1000.000	993.200	723289.43	0.4036	P	1.1
8	☐			636.56	0.0004	P	5.1

$$y = 4.0638\text{E-}004 * x + 2.3426\text{E-}005$$

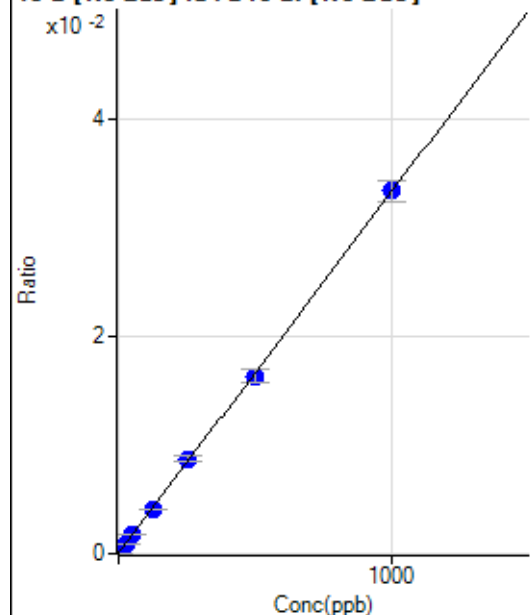
$$R = 0.9998$$

$$DL = 0.08525$$

$$BEC = 0.05765$$

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	89.32	0.0000	P	13.4
2	☐	25.000	24.794	1531.78	0.0009	P	4.0
3	☐	50.000	50.546	3063.05	0.0017	P	3.4
4	☐	125.000	120.566	7167.02	0.0041	P	3.6
5	☐	250.000	259.883	15354.96	0.0087	P	5.8
6	☐	500.000	490.795	28706.87	0.0164	P	8.1
7	☐	1000.000	1002.664	59771.36	0.0334	P	5.8
8	☐			8499.46	0.0049	P	10.4

$$y = 3.3217\text{E-}005 * x + 4.9912\text{E-}005$$

$$R = 0.9999$$

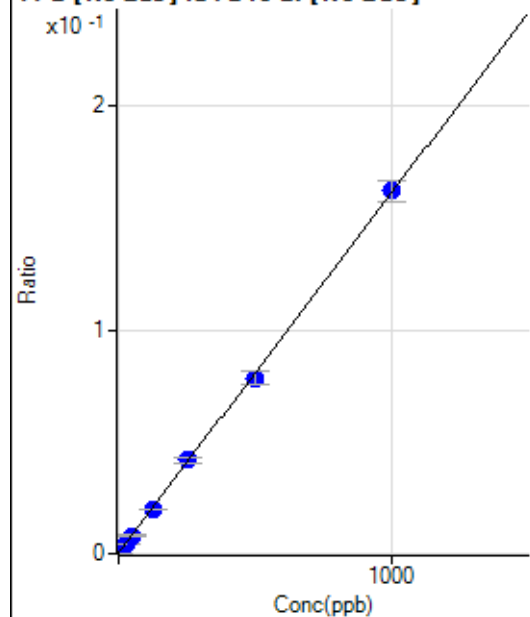
$$DL = 0.6049$$

$$BEC = 1.503$$

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	363.93	0.0002	P	8.7
2	☐	25.000	24.152	7174.34	0.0041	P	3.5
3	☐	50.000	49.046	14344.17	0.0081	P	6.2
4	☐	125.000	121.267	34868.26	0.0197	P	3.8
5	☐	250.000	258.093	73867.50	0.0418	P	5.4
6	☐	500.000	486.714	137911.16	0.0786	P	8.4
7	☐	1000.000	1005.156	290354.66	0.1620	P	6.0
8	☐			41625.95	0.0238	P	10.8

$$y = 1.6100\text{E-}004 * x + 2.0327\text{E-}004$$

$$R = 0.9998$$

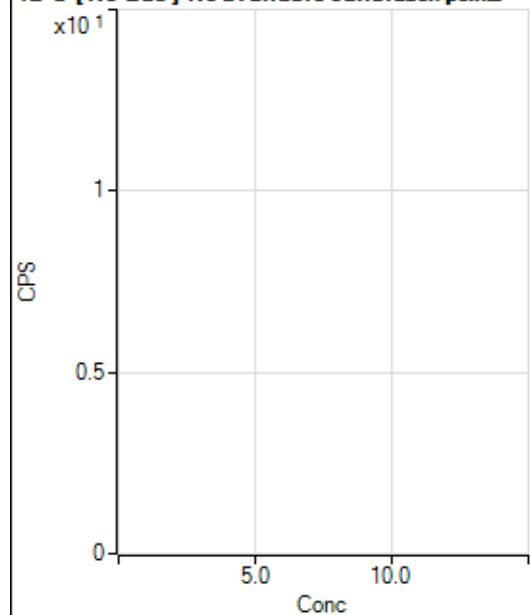
$$DL = 0.3285$$

$$BEC = 1.263$$

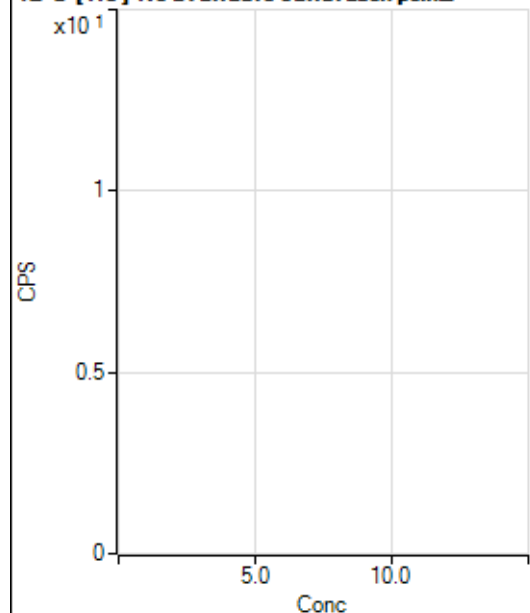
Weight: <None>

Min Conc: 0

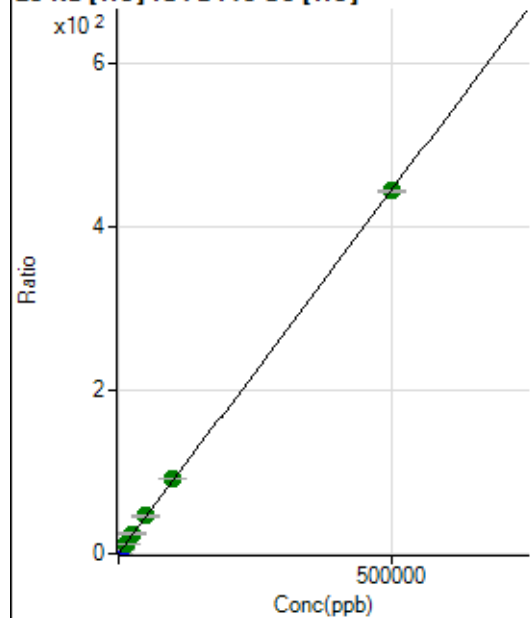
12 C [No Gas] No available calibration points



	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	37573.89	0.2669	P	1.6
2	☐	500.000	502.144	103876.21	0.7140	P	2.2
3	☐	5000.000	5315.670	733064.37	4.9995	P	2.9
4	☐	12500.000	12752.418	1734508.80	11.6205	A	1.3
5	☐	25000.000	27473.131	3547736.02	24.7264	A	0.8
6	☐	50000.000	51746.351	6659228.10	46.3370	A	2.5
7	☐	100000.00	102885.84	13283120.17	91.8668	A	2.3
8	☐	500000.00	499115.07	63576889.62	444.6322	A	0.5

$$y = 8.9031\text{E-}004 * x + 0.2669$$

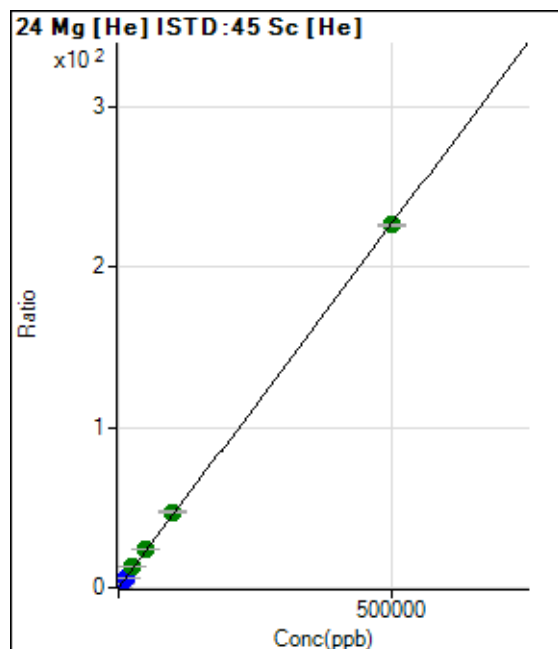
$$R = 1.0000$$

$$DL = 14.22$$

$$BEC = 299.8$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	497.24	0.0035	P	15.3
2	☐	500.000	507.311	34037.60	0.2340	P	2.9
3	☐	5000.000	5352.235	356996.63	2.4347	P	2.8
4	☐	12500.000	13169.478	893331.01	5.9855	P	1.7
5	☐	25000.000	28357.316	1848633.18	12.8844	A	1.0
6	☐	50000.000	52844.611	3450159.63	24.0073	A	2.5
7	☐	100000.00	104031.01	6833064.04	47.2578	A	2.5
8	☐	500000.00	498721.20	32392383.02	226.5391	A	0.3

$$y = 4.5423\text{E-}004 * x + 0.0035$$

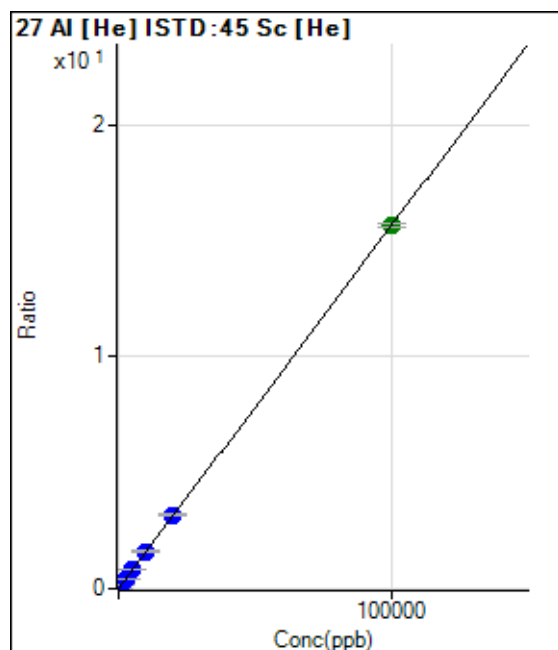
$$R = 0.9999$$

$$DL = 3.561$$

$$BEC = 7.773$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	459.12	0.0033	P	6.6
2	☐	20.000	18.410	894.09	0.0061	P	6.4
3	☐	1000.000	1016.767	23830.19	0.1625	P	1.9
4	☐	2500.000	2508.880	59124.49	0.3962	P	2.2
5	☐	5000.000	5455.141	123051.38	0.8576	P	0.5
6	☐	10000.000	10200.547	230065.04	1.6008	P	2.3
7	☐	20000.000	20325.816	460754.67	3.1866	P	2.2
8	☐	100000.00	99891.636	2237373.62	15.6477	A	1.1

$$y = 1.5661\text{E-}004 * x + 0.0033$$

$$R = 1.0000$$

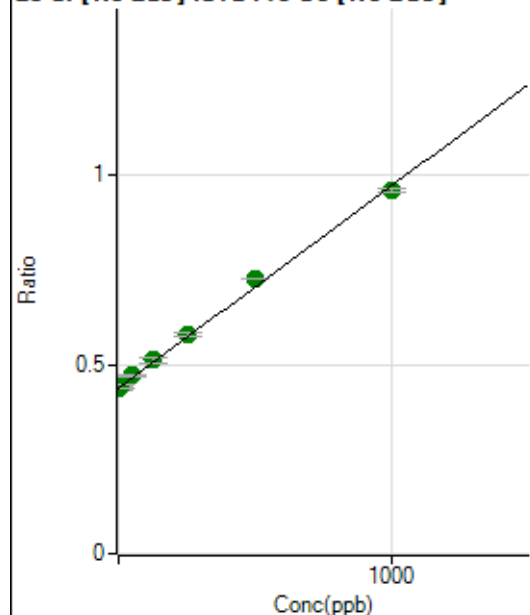
$$DL = 4.152$$

$$BEC = 20.83$$

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	1372949.59	0.4375	A	2.5
2	☐	10.000	7.640	1370936.54	0.4416	A	3.1
3	☐	50.000	61.472	1467661.80	0.4704	A	1.4
4	☐	125.000	139.059	1583540.72	0.5119	A	2.5
5	☐	250.000	266.108	1823128.08	0.5799	A	1.2
6	☐	500.000	540.167	2273632.34	0.7265	A	0.5
7	☐	1000.000	973.582	3103641.67	0.9584	A	1.1
8	☐			1715285.43	0.5288	A	3.8

$$y = 5.3500\text{E-}004 * x + 0.4375$$

$$R = 0.9985$$

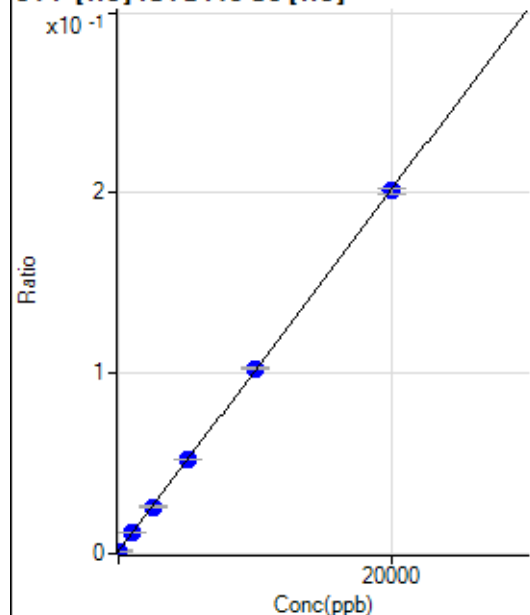
$$DL = 61.74$$

$$BEC = 817.8$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	19.524	222.23	0.0016	P	33.6
2	☐	0.000	-19.524	172.23	0.0012	P	14.6
3	☐	1000.000	1030.711	1719.59	0.0117	P	7.4
4	☐	2500.000	2456.671	3881.21	0.0260	P	6.1
5	☐	5000.000	5102.167	7541.01	0.0526	P	0.8
6	☐	10000.000	10107.520	14774.49	0.1028	P	0.7
7	☐	20000.000	19924.579	29101.99	0.2012	P	1.3
8	☐			272.23	0.0019	P	17.1

$$y = 1.0031\text{E-}005 * x + 0.0014$$

$$R = 1.0000$$

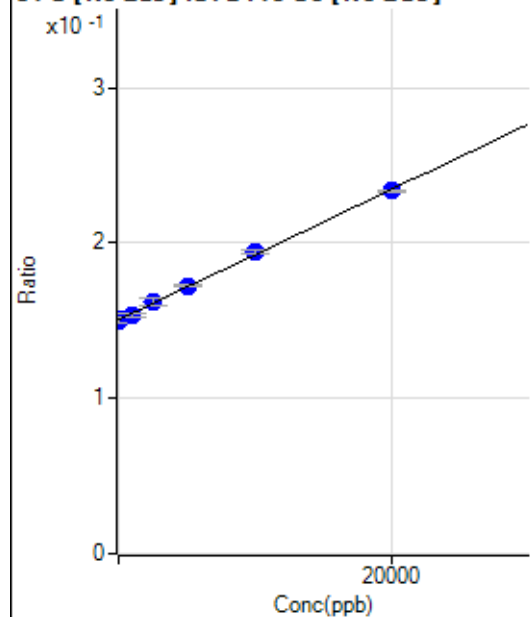
$$DL = 104.9$$

$$BEC = 137.4$$

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	145.764	474241.63	0.1511	P	1.3
2	☐	0.000	-145.764	465350.63	0.1499	P	2.5
3	☐	1000.000	732.639	479142.74	0.1536	P	1.8
4	☐	2500.000	2750.394	501257.23	0.1621	P	2.6
5	☐	5000.000	5253.035	542480.69	0.1726	P	0.9
6	☐	10000.000	10345.300	606894.31	0.1939	P	1.1
7	☐	20000.000	19746.160	755815.34	0.2334	P	0.4
8	☐			436207.97	0.1346	P	2.9

$$y = 4.1983E-006 * x + 0.1505$$

$$R = 0.9994$$

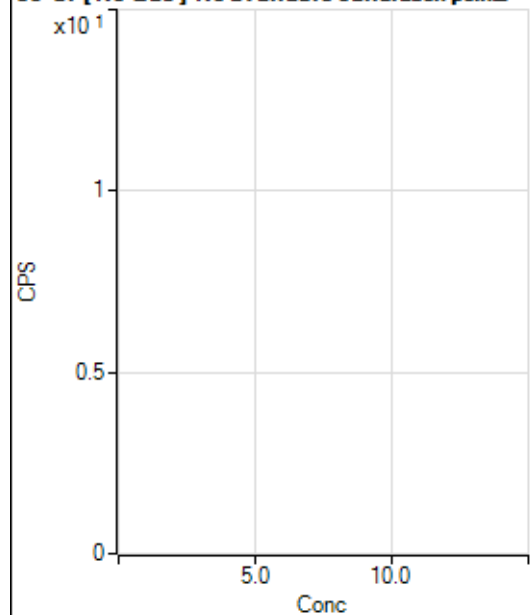
$$DL = 2050$$

$$BEC = 3.585E+04$$

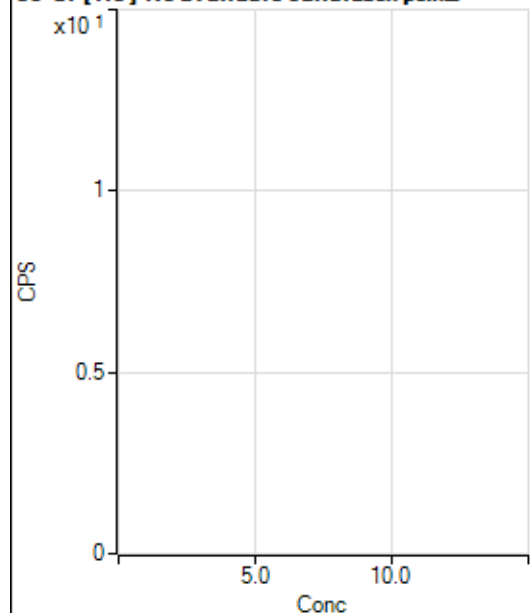
Weight: <None>

Min Conc: 0

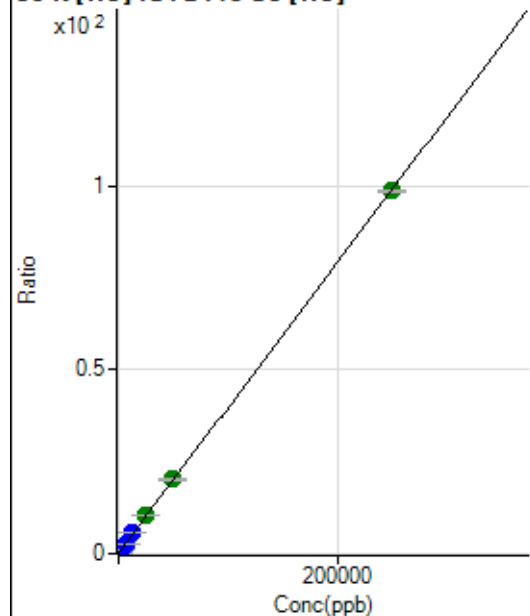
35 Cl [No Gas] No available calibration points



	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	29979.10	0.2129	P	0.9
2	☐	500.000	494.694	59353.09	0.4079	P	1.4
3	☐	2500.000	2604.448	181771.27	1.2396	P	2.5
4	☐	6250.000	6522.824	415395.42	2.7843	P	3.5
5	☐	12500.000	14026.616	823903.49	5.7423	P	0.9
6	☐	25000.000	25932.794	1499856.90	10.4359	A	2.2
7	☐	50000.000	50924.499	2933462.83	20.2878	A	2.2
8	☐	250000.00	249637.63	14101846.67	98.6224	A	0.8

$$y = 3.9421E-004 * x + 0.2129$$

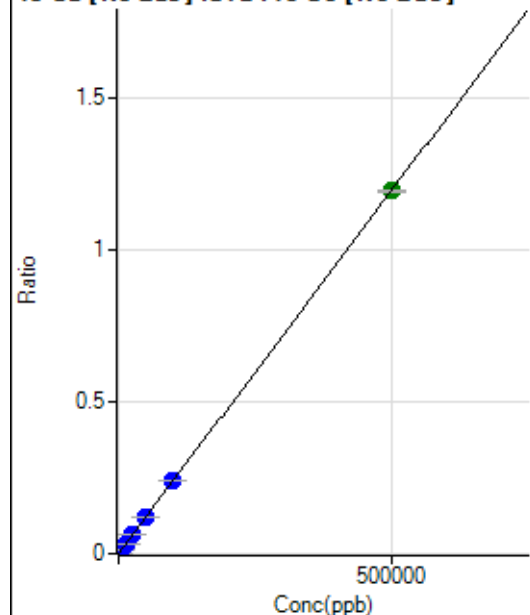
$$R = 1.0000$$

$$DL = 15$$

$$BEC = 540.1$$

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	319.96	0.0001	P	9.0
2	☐	500.000	480.386	3876.72	0.0012	P	1.1
3	☐	5000.000	5048.093	37894.60	0.0121	P	2.4
4	☐	12500.000	12501.015	92598.18	0.0299	P	1.4
5	☐	25000.000	26493.054	199050.96	0.0633	P	0.9
6	☐	50000.000	50249.665	375533.57	0.1200	P	0.6
7	☐	100000.00	100817.71	779300.19	0.2407	P	1.2
8	☐	500000.00	499736.35	3867355.05	1.1925	A	0.2

$$y = 2.3861\text{E-}006 * x + 1.0201\text{E-}004$$

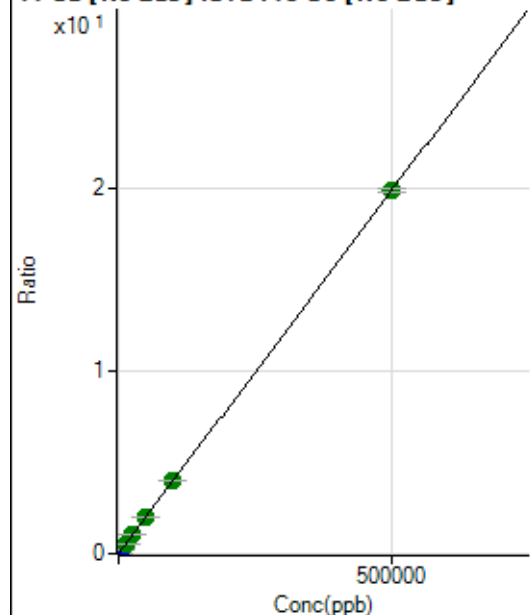
$$R = 1.0000$$

$$DL = 11.49$$

$$BEC = 42.75$$

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	20482.07	0.0065	P	1.7
2	☐	500.000	480.954	79410.37	0.0256	P	2.6
3	☐	5000.000	5101.160	650826.01	0.2086	P	1.7
4	☐	12500.000	12672.804	1573223.13	0.5086	A	1.9
5	☐	25000.000	26735.565	3350303.72	1.0656	A	1.5
6	☐	50000.000	50204.072	6244409.98	1.9953	A	1.7
7	☐	100000.00	100055.10	12856482.96	3.9701	A	0.5
8	☐	500000.00	499876.48	64236781.76	19.8088	A	1.0

$$y = 3.9614\text{E-}005 * x + 0.0065$$

$$R = 1.0000$$

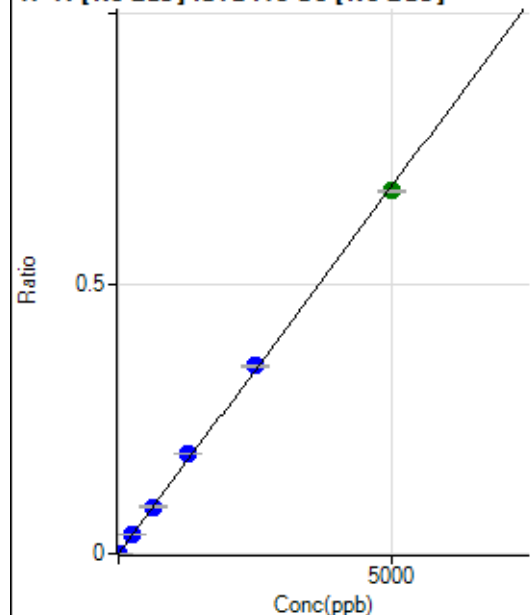
$$DL = 8.647$$

$$BEC = 164.8$$

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	400.02	0.0001	P	24.7
2	☐	5.000	5.237	2603.09	0.0008	P	6.1
3	☐	250.000	257.361	109453.96	0.0351	P	3.0
4	☐	625.000	637.132	268075.84	0.0867	P	2.6
5	☐	1250.000	1354.682	578876.45	0.1841	P	0.4
6	☐	2500.000	2558.883	1088117.94	0.3477	P	1.5
7	☐	5000.000	4942.503	2174386.25	0.6715	A	0.8
8	☐			1797.38	0.0006	P	10.2

$$y = 1.3583E-004 * x + 1.2766E-004$$

$$R = 0.9996$$

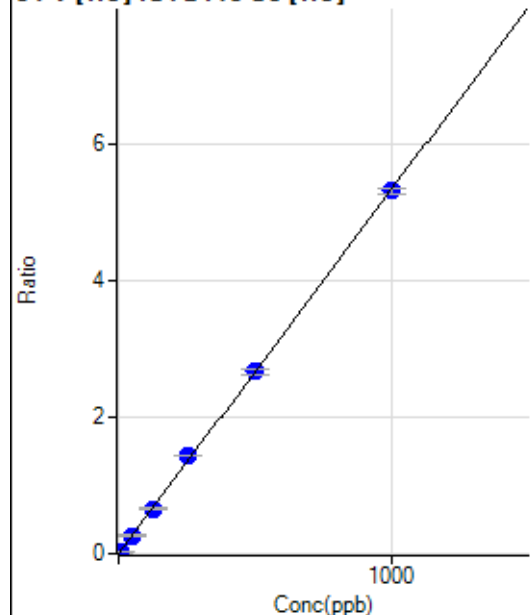
$$DL = 0.6964$$

$$BEC = 0.9399$$

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	13.33	0.0001	P	23.8
2	☐	5.000	4.969	3867.23	0.0266	P	2.1
3	☐	50.000	49.668	38829.19	0.2648	P	2.4
4	☐	125.000	123.153	97961.03	0.6564	P	2.4
5	☐	250.000	268.146	205059.37	1.4292	P	0.4
6	☐	500.000	499.167	382298.31	2.6604	P	3.0
7	☐	1000.000	996.128	767669.96	5.3089	P	1.6
8	☐			383.34	0.0027	P	9.9

$$y = 0.0053 * x + 9.4511E-005$$

$$R = 0.9998$$

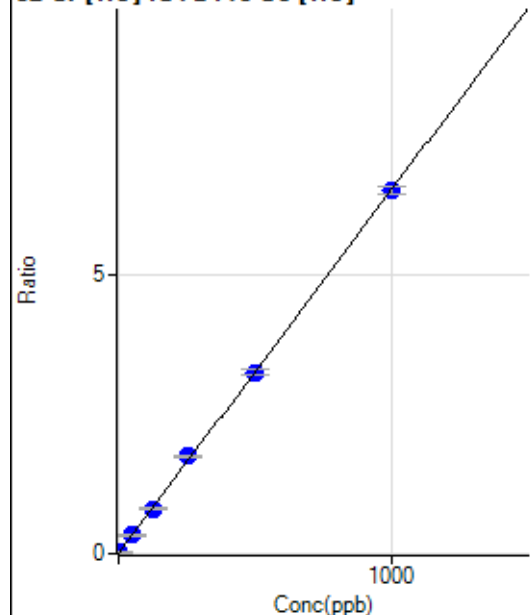
$$DL = 0.01265$$

$$BEC = 0.01773$$

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	692.25	0.0049	P	9.7
2	☐	2.000	1.914	2529.14	0.0174	P	3.6
3	☐	50.000	49.539	48049.33	0.3276	P	0.6
4	☐	125.000	122.752	120063.46	0.8045	P	2.1
5	☐	250.000	266.308	249599.53	1.7396	P	1.0
6	☐	500.000	498.599	467461.09	3.2527	P	2.5
7	☐	1000.000	996.928	939682.48	6.4988	P	2.3
8	☐			6751.65	0.0472	P	2.2

$$y = 0.0065 * x + 0.0049$$

$$R = 0.9998$$

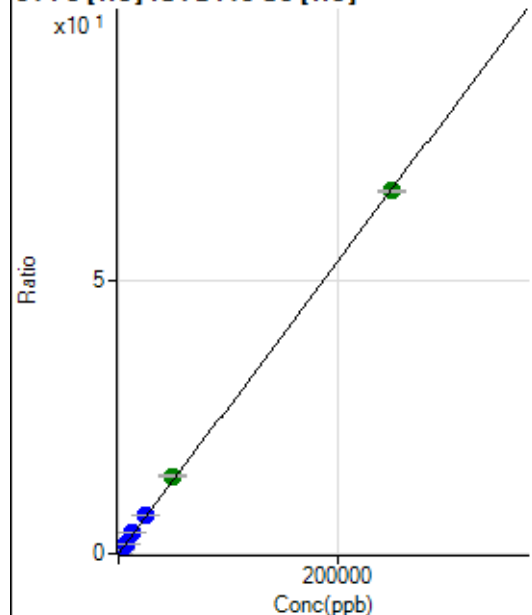
$$DL = 0.2191$$

$$BEC = 0.7552$$

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	544.47	0.0039	P	4.2
2	☐	50.000	50.356	2520.64	0.0173	P	6.3
3	☐	2500.000	2649.503	104393.35	0.7119	P	2.5
4	☐	6250.000	6513.327	260284.92	1.7445	P	3.1
5	☐	12500.000	14224.599	545987.44	3.8053	P	0.8
6	☐	25000.000	26476.864	1017393.22	7.0796	P	2.8
7	☐	50000.000	53083.977	2051989.47	14.1902	A	1.8
8	☐	250000.00	249141.21	9521062.60	66.5852	A	0.5

$$y = 2.6724E-004 * x + 0.0039$$

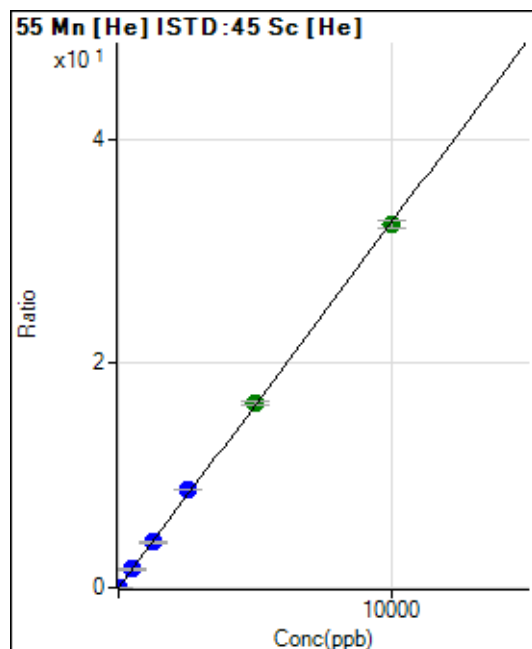
$$R = 0.9999$$

$$DL = 1.823$$

$$BEC = 14.47$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	90.00	0.0006	P	19.2
2	☐	1.000	0.876	507.80	0.0035	P	13.5
3	☐	500.000	499.852	238876.67	1.6290	P	2.1
4	☐	1250.000	1239.243	602522.75	4.0377	P	2.3
5	☐	2500.000	2689.241	1257057.43	8.7613	P	1.2
6	☐	5000.000	5047.726	2363477.12	16.4444	A	2.6
7	☐	10000.000	9930.179	4677625.76	32.3497	A	2.1
8	☐			4369.61	0.0306	P	8.6

$$y = 0.0033 * x + 6.3928E-004$$

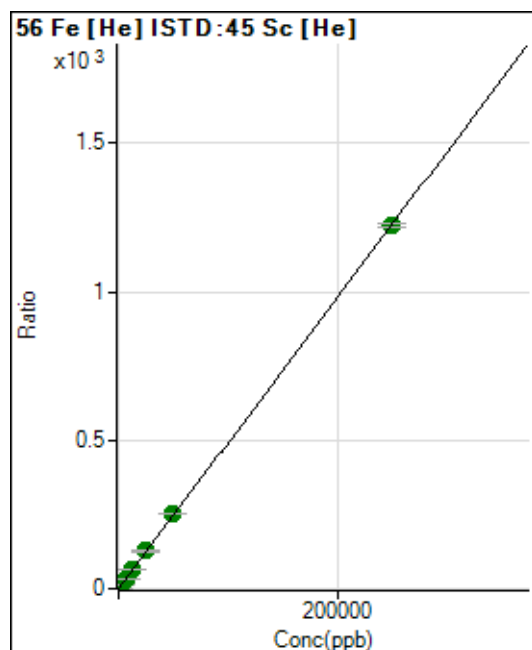
$$R = 0.9998$$

$$DL = 0.1131$$

$$BEC = 0.1962$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	3209.68	0.0228	P	4.9
2	☐	50.000	50.823	39506.72	0.2715	P	2.0
3	☐	2500.000	2626.869	1888674.36	12.8786	A	1.4
4	☐	6250.000	6443.090	4708336.56	31.5550	A	2.9
5	☐	12500.000	13737.388	9649527.30	67.2531	A	0.9
6	☐	25000.000	25851.359	18185815.68	126.5384	A	2.3
7	☐	50000.000	51410.696	36384171.18	251.6249	A	1.9
8	☐	250000.00	249564.75	174647924.2	1,221.383	A	1.0

$$y = 0.0049 * x + 0.0228$$

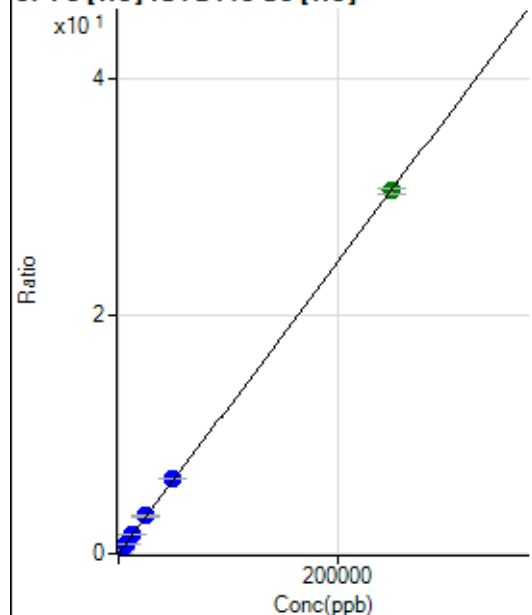
$$R = 1.0000$$

$$DL = 0.6874$$

$$BEC = 4.657$$

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	192.60	0.0014	P	17.2
2	☐	50.000	47.017	1035.25	0.0071	P	7.7
3	☐	2500.000	2597.198	46748.76	0.3187	P	0.7
4	☐	6250.000	6339.112	115812.60	0.7760	P	1.6
5	☐	12500.000	13854.276	243116.75	1.6943	P	0.3
6	☐	25000.000	25806.909	453390.90	3.1549	P	2.8
7	☐	50000.000	51456.662	909413.67	6.2893	P	1.9
8	☐	250000.00	249557.06	4360896.86	30.4970	A	1.4

$$y = 1.2220\text{E-}004 * x + 0.0014$$

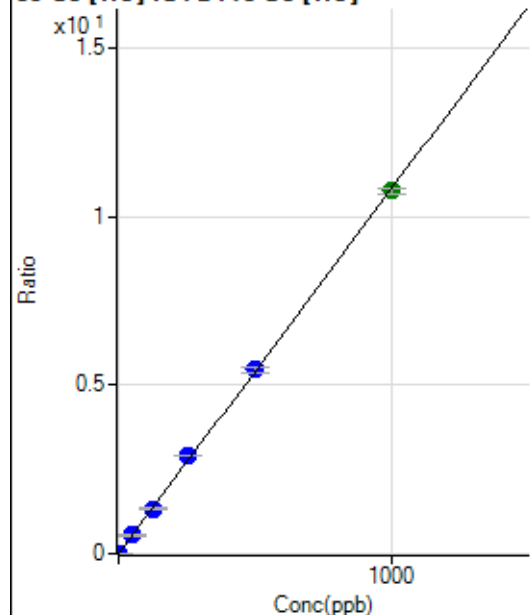
$$R = 1.0000$$

$$DL = 5.784$$

$$BEC = 11.19$$

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	0.0003	P	36.5
2	☐	1.000	1.001	1622.33	0.0112	P	6.5
3	☐	50.000	50.111	79532.83	0.5423	P	1.7
4	☐	125.000	122.986	198578.67	1.3306	P	1.8
5	☐	250.000	267.482	415170.27	2.8935	P	0.5
6	☐	500.000	503.390	782551.76	5.4451	P	2.4
7	☐	1000.000	994.181	1554951.45	10.7537	A	1.9
8	☐			2675.84	0.0187	P	3.4

$$y = 0.0108 * x + 3.3050\text{E-}004$$

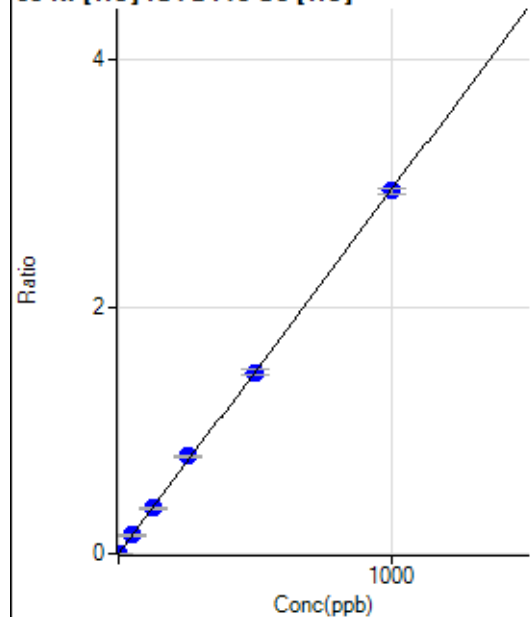
$$R = 0.9998$$

$$DL = 0.0335$$

$$BEC = 0.03056$$

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	63.33	0.0004	P	14.5
2	☐	1.000	1.014	501.13	0.0034	P	9.9
3	☐	50.000	50.456	21905.86	0.1494	P	1.7
4	☐	125.000	124.636	54969.04	0.3683	P	1.7
5	☐	250.000	266.782	113048.06	0.7879	P	0.4
6	☐	500.000	498.617	211546.54	1.4722	P	3.5
7	☐	1000.000	996.519	425382.40	2.9418	P	1.7
8	☐			2084.62	0.0146	P	3.4

$$y = 0.0030 * x + 4.4926E-004$$

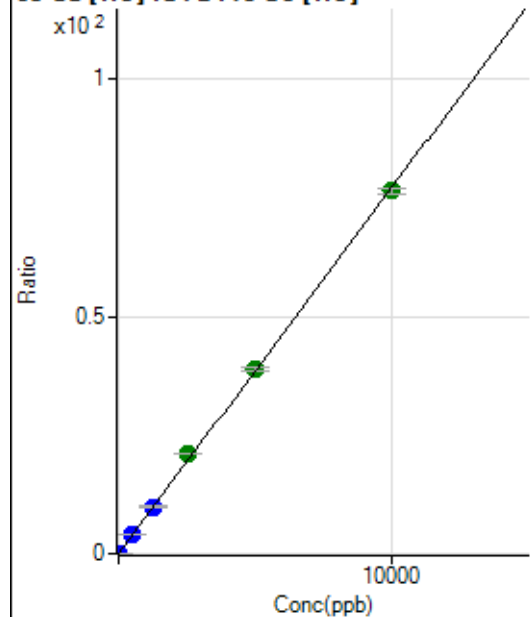
$$R = 0.9998$$

$$DL = 0.06629$$

$$BEC = 0.1522$$

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	578.91	0.0041	P	3.6
2	☐	2.000	2.238	3105.93	0.0214	P	3.7
3	☐	500.000	518.002	585719.11	3.9942	P	2.0
4	☐	1250.000	1280.828	1472964.37	9.8701	P	1.9
5	☐	2500.000	2730.313	3018154.78	21.0353	A	0.6
6	☐	5000.000	5037.552	5577424.36	38.8076	A	2.3
7	☐	10000.000	9918.892	11048859.70	76.4078	A	1.6
8	☐			10511.75	0.0735	P	5.3

$$y = 0.0077 * x + 0.0041$$

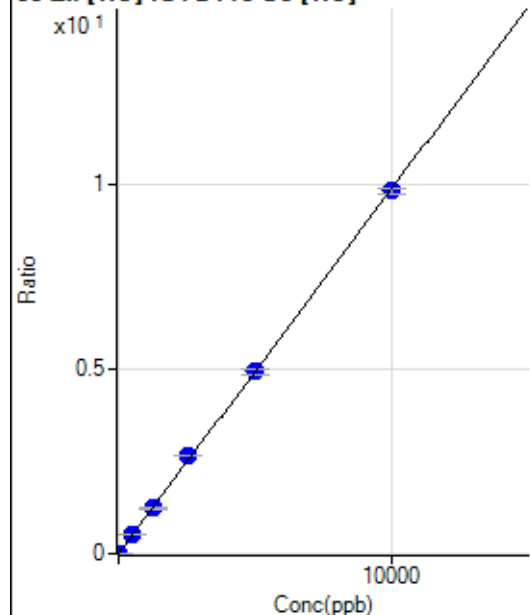
$$R = 0.9997$$

$$DL = 0.0584$$

$$BEC = 0.534$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	68.89	0.0005	P	14.4
2	☐	2.000	2.178	384.45	0.0026	P	6.2
3	☐	500.000	507.171	73588.48	0.5018	P	1.2
4	☐	1250.000	1243.500	183470.13	1.2296	P	2.6
5	☐	2500.000	2702.840	383368.70	2.6719	P	0.9
6	☐	5000.000	5003.861	710778.28	4.9462	P	3.0
7	☐	10000.000	9947.813	1421798.07	9.8328	P	1.8
8	☐			2549.15	0.0178	P	2.1

$$y = 9.8839\text{E-}004 * x + 4.8875\text{E-}004$$

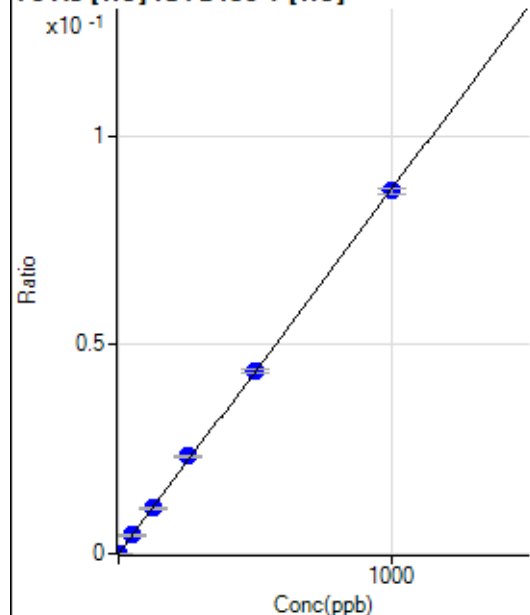
$$R = 0.9998$$

$$DL = 0.214$$

$$BEC = 0.4945$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	11.00	0.0000	P	8.2
2	☐	1.000	1.026	116.01	0.0001	P	2.4
3	☐	50.000	50.599	5297.87	0.0044	P	2.8
4	☐	125.000	124.684	13221.84	0.0109	P	3.7
5	☐	250.000	267.321	27370.12	0.0233	P	1.9
6	☐	500.000	499.839	51036.01	0.0436	P	1.9
7	☐	1000.000	995.760	103372.55	0.0868	P	1.4
8	☐			93.68	0.0001	P	13.8

$$y = 8.7114\text{E-}005 * x + 9.6370\text{E-}006$$

$$R = 0.9998$$

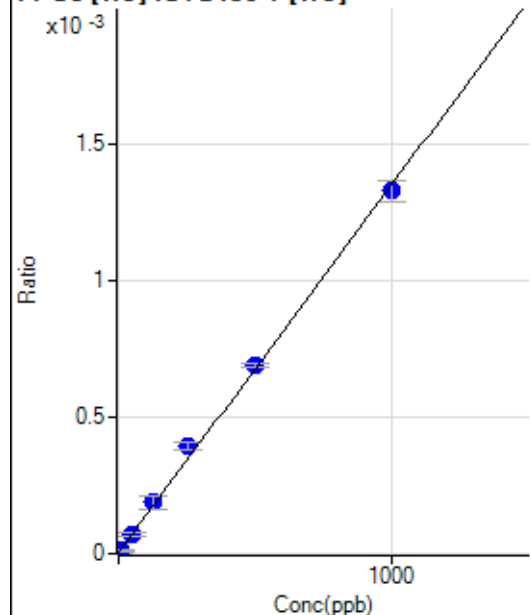
$$DL = 0.02724$$

$$BEC = 0.1106$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4.44	0.0000	P	44.2
2	☐	5.000	5.562	13.33	0.0000	P	66.0
3	☐	50.000	50.846	86.67	0.0001	P	17.6
4	☐	125.000	137.001	227.78	0.0002	P	25.7
5	☐	250.000	291.086	464.46	0.0004	P	7.1
6	☐	500.000	508.550	805.59	0.0007	P	2.5
7	☐	1000.000	983.908	1580.11	0.0013	P	6.2
8	☐			5.55	0.0000	P	69.2

$$y = 1.3441\text{E-}006 * x + 3.9033\text{E-}006$$

$$R = 0.9989$$

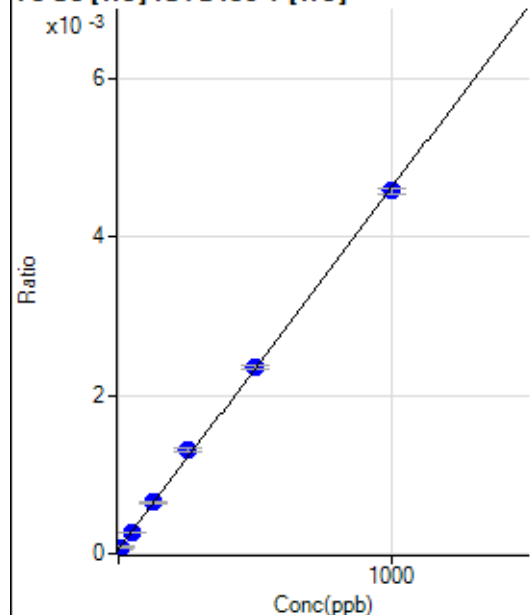
$$DL = 3.854$$

$$BEC = 2.904$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	63.68	0.0001	P	13.8
2	☐	5.000	5.725	96.01	0.0001	P	8.5
3	☐	50.000	46.835	323.37	0.0003	P	5.6
4	☐	125.000	130.569	792.77	0.0007	P	4.3
5	☐	250.000	274.640	1538.58	0.0013	P	3.9
6	☐	500.000	504.369	2763.22	0.0024	P	2.0
7	☐	1000.000	991.114	5456.95	0.0046	P	1.5
8	☐			54.67	0.0000	P	21.5

$$y = 4.5644\text{E-}006 * x + 5.5842\text{E-}005$$

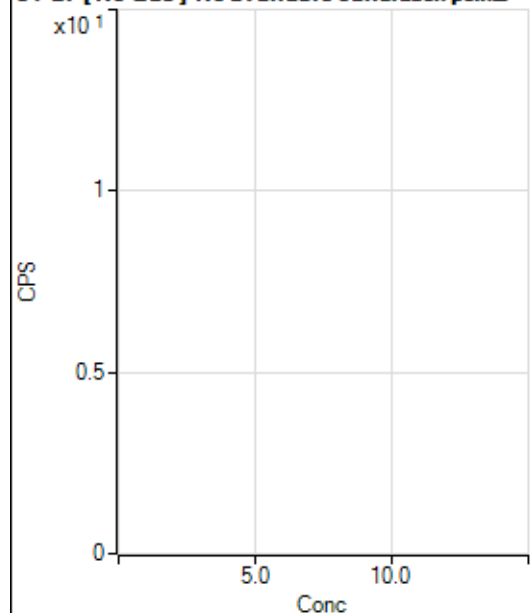
$$R = 0.9996$$

$$DL = 5.069$$

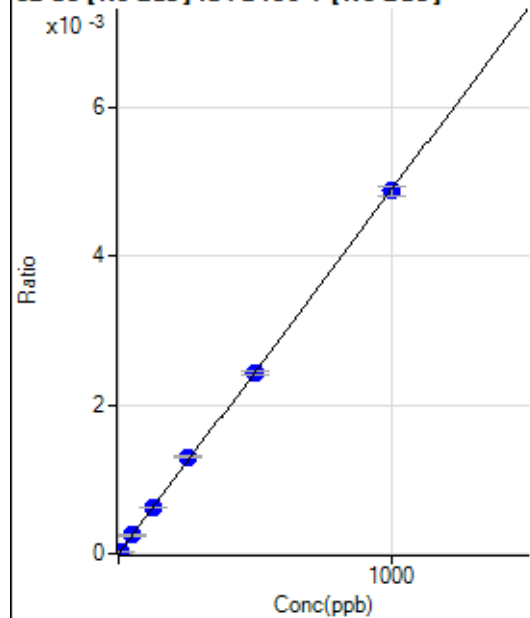
$$BEC = 12.23$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6701.85		P	3.6
2	☐			6815.38		P	2.9
3	☐			7039.03		P	5.4
4	☐			7132.49		P	4.1
5	☐			6898.74		P	2.1
6	☐			7857.00		P	2.5
7	☐			7813.58		P	4.5
8	☐			8107.39		P	3.8

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	13.19	0.0000	P	917.
2	☐	5.000	5.801	278.03	0.0000	P	33.9
3	☐	50.000	50.679	2292.71	0.0002	P	8.6
4	☐	125.000	127.244	5642.80	0.0006	P	1.8
5	☐	250.000	264.845	12106.56	0.0013	P	1.5
6	☐	500.000	497.566	22497.37	0.0024	P	2.2
7	☐	1000.000	997.187	45725.94	0.0049	P	2.5
8	☐			53.53	0.0000	P	156.

$$y = 4.8823\text{E-}006 * x + 1.5770\text{E-}006$$

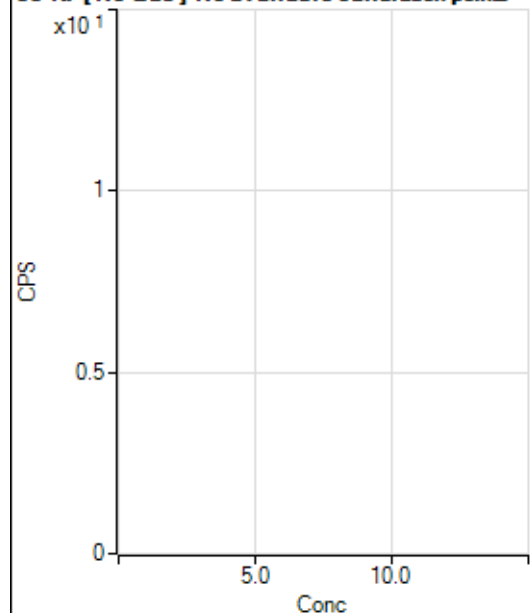
$$R = 0.9999$$

$$DL = 8.893$$

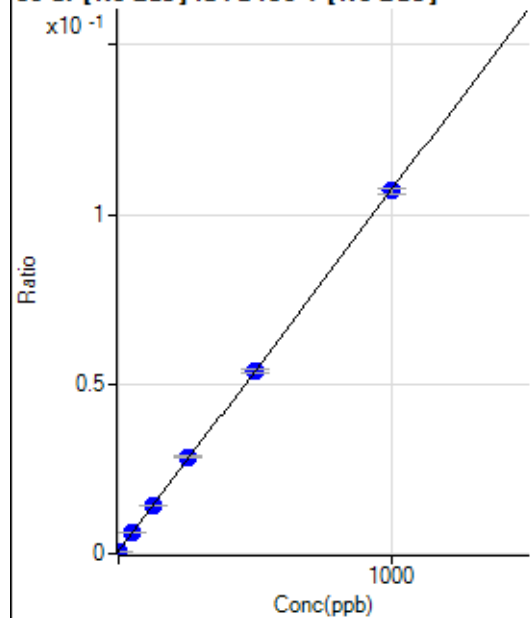
$$BEC = 0.323$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4386.28		P	2.8
2	☐			4161.78		P	2.2
3	☐			4564.12		P	6.9
4	☐			4422.96		P	3.8
5	☐			4118.43		P	1.9
6	☐			4306.27		P	1.6
7	☐			4771.97		P	5.0
8	☐			4408.51		P	3.3

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	6615.65	0.0007	P	5.1
2	☐	1.000	1.100	7719.03	0.0008	P	1.7
3	☐	50.000	51.514	57117.30	0.0062	P	1.9
4	☐	125.000	127.686	129686.84	0.0143	P	1.9
5	☐	250.000	261.579	267303.96	0.0286	P	0.4
6	☐	500.000	498.763	498542.90	0.0539	P	1.2
7	☐	1000.000	997.312	1004671.02	0.1070	P	1.8
8	☐			13070.28	0.0014	P	3.5

$$y = 1.0657E-004 * x + 7.1174E-004$$

$$R = 0.9999$$

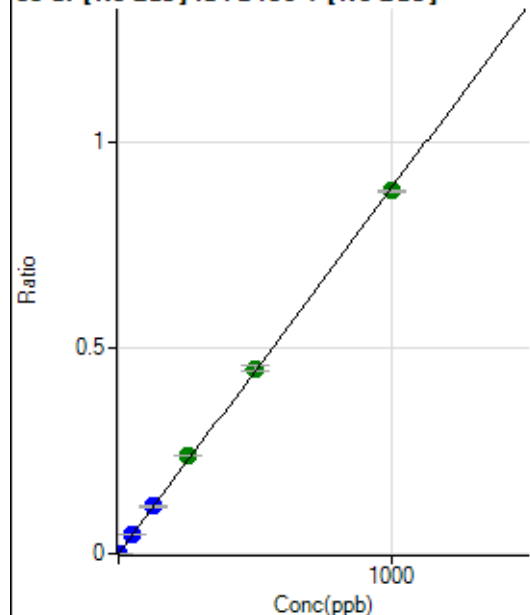
$$DL = 1.02$$

$$BEC = 6.679$$

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	130.56	0.0000	P	24.1
2	☐	1.000	0.948	7963.58	0.0009	P	3.9
3	☐	50.000	51.967	425195.13	0.0462	P	1.3
4	☐	125.000	129.657	1043160.97	0.1152	P	1.4
5	☐	250.000	266.396	2212381.47	0.2366	A	0.5
6	☐	500.000	505.502	4154939.67	0.4490	A	2.9
7	☐	1000.000	992.470	8280124.14	0.8815	A	0.4
8	☐			51133.41	0.0055	P	1.6

$$y = 8.8815E-004 * x + 1.4075E-005$$

$$R = 0.9998$$

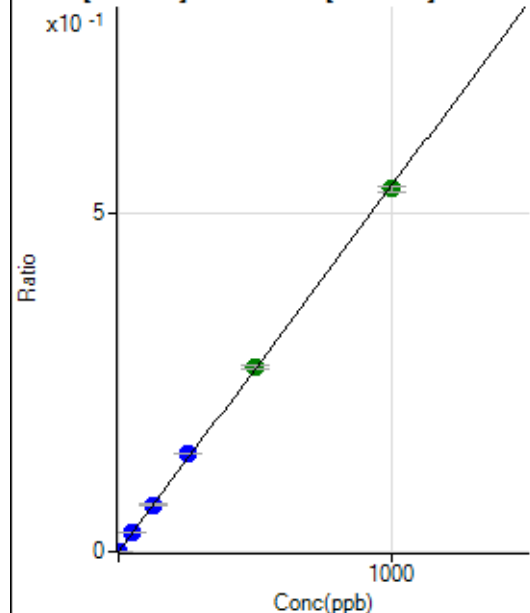
$$DL = 0.01146$$

$$BEC = 0.01585$$

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	397.24	0.0000	P	13.3
2	☐	1.000	0.943	5137.23	0.0006	P	3.2
3	☐	50.000	51.203	254890.25	0.0277	P	1.6
4	☐	125.000	127.658	624160.80	0.0689	P	2.8
5	☐	250.000	269.000	1357469.38	0.1452	P	0.8
6	☐	500.000	506.098	2527838.75	0.2731	A	1.8
7	☐	1000.000	991.809	5025678.58	0.5352	A	1.6
8	☐			4314.68	0.0005	P	0.1

$$y = 5.3956E-004 * x + 4.2774E-005$$

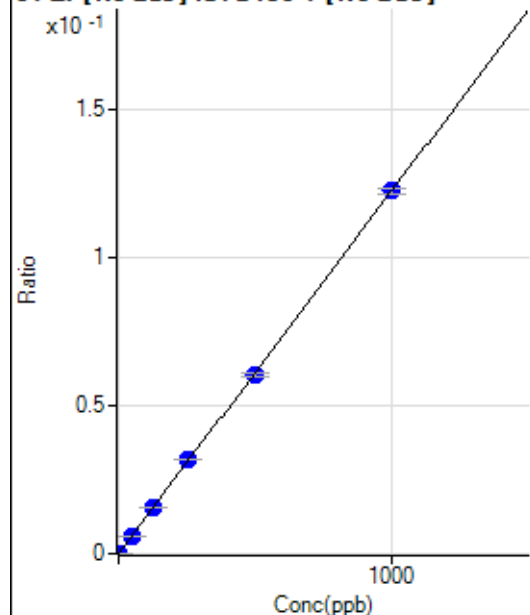
$$R = 0.9998$$

$$DL = 0.03161$$

$$BEC = 0.07927$$

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	80.56	0.0000	P	55.9
2	☐	1.000	0.988	1205.64	0.0001	P	11.2
3	☐	50.000	49.867	56339.61	0.0061	P	1.1
4	☐	125.000	126.635	140549.57	0.0155	P	2.3
5	☐	250.000	260.889	298845.28	0.0320	P	0.8
6	☐	500.000	492.454	558242.83	0.0603	P	2.8
7	☐	1000.000	1000.853	1151122.10	0.1226	P	1.9
8	☐			958.39	0.0001	P	8.8

$$y = 1.2248\text{E-}004 * x + 8.6369\text{E-}006$$

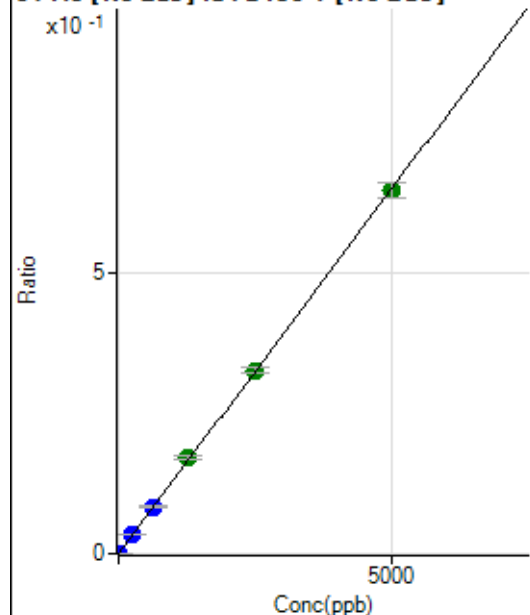
R = 0.9999

DL = 0.1183

BEC = 0.07052

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	144.45	0.0000	P	25.7
2	☐	5.000	4.744	5859.72	0.0006	P	8.0
3	☐	250.000	256.489	306105.67	0.0332	P	0.3
4	☐	625.000	641.315	752353.10	0.0831	P	2.3
5	☐	1250.000	1323.514	1602481.72	0.1714	A	2.9
6	☐	2500.000	2509.454	3007588.11	0.3250	A	3.5
7	☐	5000.000	4974.531	6046871.44	0.6443	A	4.1
8	☐			5198.34	0.0006	P	7.0

$$y = 1.2951\text{E-}004 * x + 1.5531\text{E-}005$$

R = 0.9999

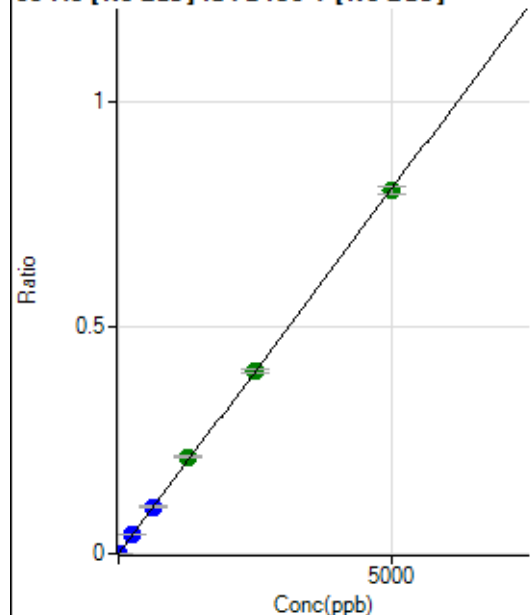
DL = 0.09243

BEC = 0.1199

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	22.22	0.0000	P	58.6
2	☐	5.000	4.694	7065.87	0.0008	P	2.7
3	☐	250.000	252.780	375380.05	0.0408	P	1.0
4	☐	625.000	640.322	934847.27	0.1032	P	3.1
5	☐	1250.000	1328.517	2002452.54	0.2142	A	1.4
6	☐	2500.000	2507.867	3741932.63	0.4043	A	1.9
7	☐	5000.000	4974.383	7530125.78	0.8020	A	2.3
8	☐			6587.83	0.0007	P	3.5

$$y = 1.6122\text{E-}004 * x + 2.4030\text{E-}006$$

$$R = 0.9999$$

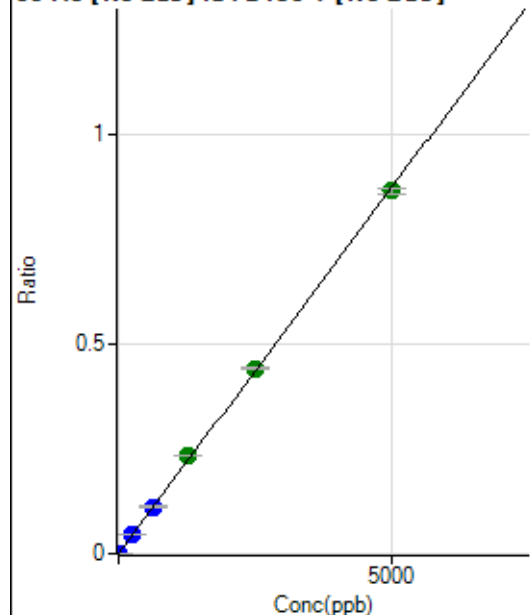
$$DL = 0.02619$$

$$BEC = 0.01491$$

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	72.23	0.0000	P	78.7
2	☐	5.000	4.695	7696.81	0.0008	P	1.8
3	☐	250.000	257.701	413975.72	0.0449	P	0.9
4	☐	625.000	642.483	1014736.21	0.1120	P	1.9
5	☐	1250.000	1342.243	2188371.79	0.2341	A	1.1
6	☐	2500.000	2530.996	4084797.79	0.4413	A	1.5
7	☐	5000.000	4958.871	8120295.58	0.8647	A	1.7
8	☐			8313.83	0.0009	P	8.1

$$y = 1.7437\text{E-}004 * x + 7.8419\text{E-}006$$

$$R = 0.9998$$

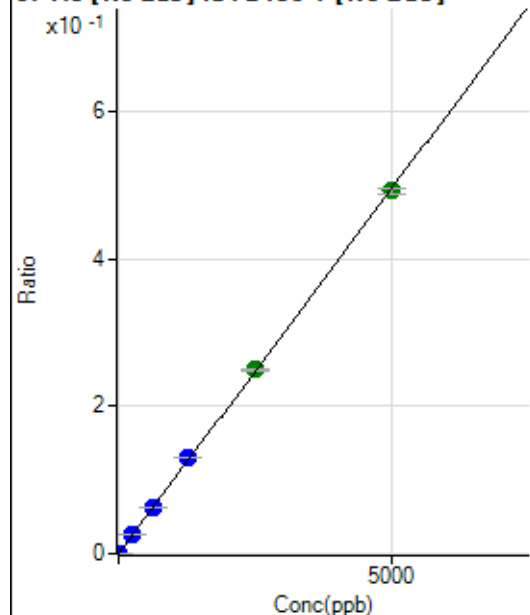
$$DL = 0.1061$$

$$BEC = 0.04497$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	11.11	0.0000	P	42.2
2	☐	5.000	4.496	4153.50	0.0004	P	4.6
3	☐	250.000	253.066	230794.55	0.0251	P	1.6
4	☐	625.000	630.528	565459.11	0.0624	P	0.7
5	☐	1250.000	1314.751	1216958.10	0.1302	P	1.4
6	☐	2500.000	2522.462	2311297.16	0.2497	A	1.4
7	☐	5000.000	4971.737	4622153.62	0.4922	A	1.8
8	☐			4003.45	0.0004	P	3.9

$$y = 9.9000\text{E-}005 * x + 1.1913\text{E-}006$$

$$R = 0.9999$$

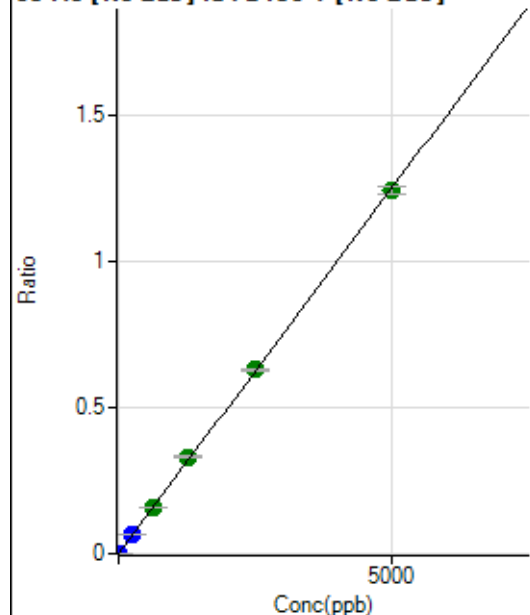
$$DL = 0.01524$$

$$BEC = 0.01203$$

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	58.33	0.0000	P	23.7
2	☐	5.000	4.647	10865.66	0.0012	P	1.6
3	☐	250.000	256.374	589966.96	0.0641	P	0.7
4	☐	625.000	637.044	1441639.33	0.1591	A	0.5
5	☐	1250.000	1329.625	3105488.33	0.3322	A	1.8
6	☐	2500.000	2520.023	5826728.34	0.6295	A	1.4
7	☐	5000.000	4968.259	11653407.73	1.2411	A	2.2
8	☐			9923.25	0.0011	P	6.1

$$y = 2.4981\text{E-}004 * x + 6.2632\text{E-}006$$

$$R = 0.9998$$

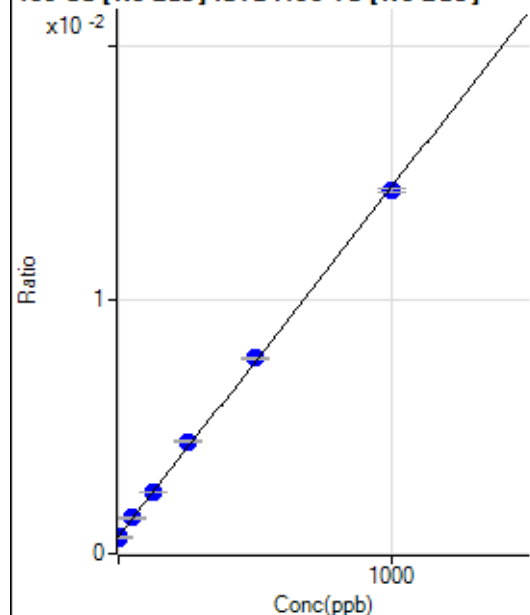
$$DL = 0.01784$$

$$BEC = 0.02507$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	3114.31	0.0007	P	9.8
2	☐	1.000	-3.164	2892.05	0.0006	P	8.5
3	☐	50.000	52.349	6184.89	0.0014	P	5.5
4	☐	125.000	126.591	10810.02	0.0024	P	0.5
5	☐	250.000	272.277	20407.23	0.0044	P	1.7
6	☐	500.000	509.922	35081.30	0.0077	P	0.6
7	☐	1000.000	989.157	67588.51	0.0143	P	1.2
8	☐			2889.27	0.0006	P	4.5

$$y = 1.3778\text{E-}005 * x + 6.8611\text{E-}004$$

$$R = 0.9996$$

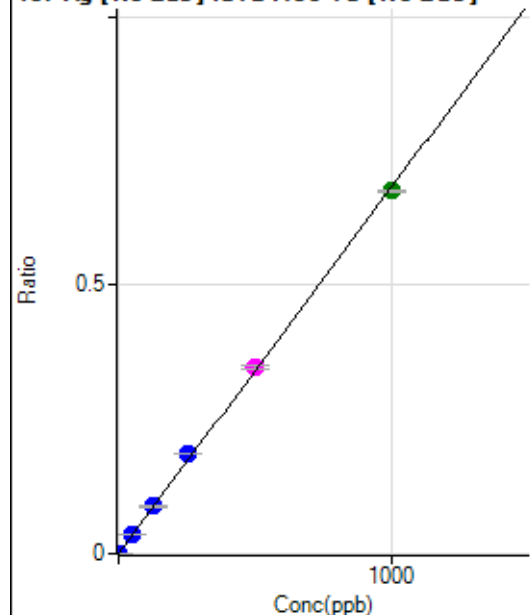
$$DL = 14.7$$

$$BEC = 49.8$$

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	33.33	0.0000	P	23.2
2	☐	1.000	0.942	2928.17	0.0007	P	6.1
3	☐	50.000	54.164	162551.09	0.0370	P	2.0
4	☐	125.000	129.894	394422.44	0.0887	P	2.6
5	☐	250.000	272.113	854318.29	0.1858	P	1.1
6	☐	500.000	506.871	1574082.98	0.3461	M	2.0
7	☐	1000.000	990.216	3192362.27	0.6761	A	0.3
8	☐			2939.28	0.0006	P	6.5

$$y = 6.8278\text{E-}004 * x + 7.3164\text{E-}006$$

$$R = 0.9997$$

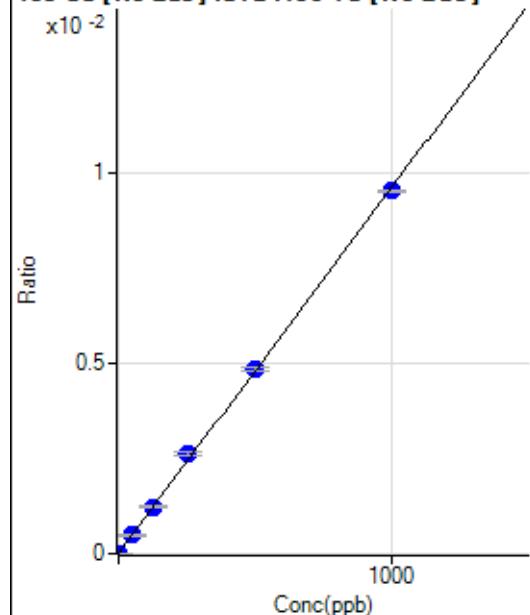
$$DL = 0.007469$$

$$BEC = 0.01072$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	27.78	0.0000	P	58.7
2	☐	1.000	0.525	50.00	0.0000	P	13.6
3	☐	50.000	50.829	2171.03	0.0005	P	6.1
4	☐	125.000	127.854	5483.11	0.0012	P	2.5
5	☐	250.000	273.300	12083.20	0.0026	P	4.6
6	☐	500.000	504.098	22028.84	0.0048	P	2.7
7	☐	1000.000	991.728	44966.17	0.0095	P	0.8
8	☐			113.89	0.0000	P	11.1

$$y = 9.5964\text{E-}006 * x + 6.0684\text{E-}006$$

$$R = 0.9997$$

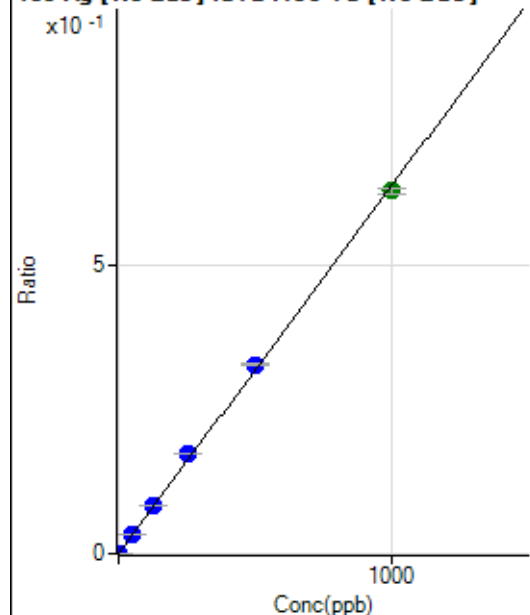
$$DL = 1.113$$

$$BEC = 0.6324$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5.55	0.0000	P	86.6
2	☐	1.000	0.995	2864.27	0.0006	P	6.7
3	☐	50.000	53.583	150357.01	0.0342	P	1.9
4	☐	125.000	131.485	373361.42	0.0839	P	1.4
5	☐	250.000	273.639	803355.44	0.1747	P	0.4
6	☐	500.000	512.721	1488988.62	0.3273	P	1.0
7	☐	1000.000	986.740	2974770.51	0.6300	A	1.4
8	☐			2911.49	0.0006	P	6.0

$$y = 6.3845\text{E-}004 * x + 1.2158\text{E-}006$$

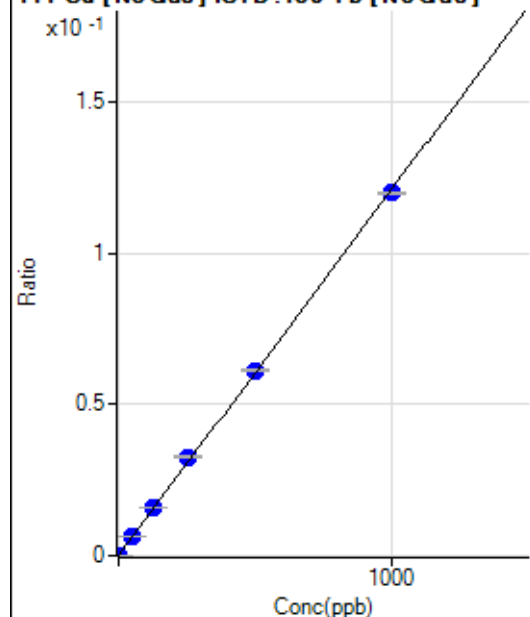
$$R = 0.9996$$

$$DL = 0.00495$$

$$BEC = 0.001904$$

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	308.66	0.0001	P	12.3
2	☐	1.000	1.127	919.51	0.0002	P	2.9
3	☐	50.000	53.879	28952.10	0.0066	P	2.7
4	☐	125.000	129.293	69891.42	0.0157	P	0.9
5	☐	250.000	270.040	150553.25	0.0327	P	1.4
6	☐	500.000	506.165	278928.21	0.0613	P	0.3
7	☐	1000.000	991.177	566653.31	0.1200	P	0.5
8	☐			738.39	0.0002	P	10.6

$$y = 1.2101\text{E-}004 * x + 6.8022\text{E-}005$$

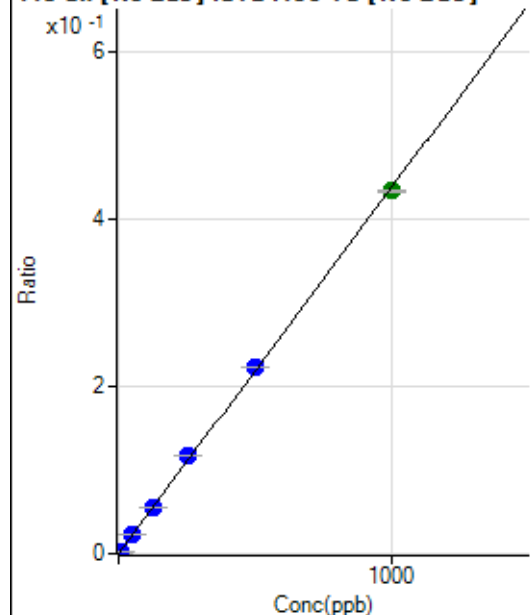
$$R = 0.9997$$

$$DL = 0.2076$$

$$BEC = 0.5621$$

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	216.67	0.0000	P	19.5
2	☐	5.000	4.802	9648.13	0.0021	P	3.2
3	☐	50.000	52.879	101732.83	0.0232	P	3.7
4	☐	125.000	126.837	246665.15	0.0555	P	2.8
5	☐	250.000	266.750	536148.73	0.1166	P	0.5
6	☐	500.000	508.777	1011416.80	0.2224	P	0.8
7	☐	1000.000	991.052	2044844.17	0.4331	A	0.6
8	☐			2011.32	0.0004	P	8.7

$$y = 4.3694\text{E-}004 * x + 4.7689\text{E-}005$$

$$R = 0.9998$$

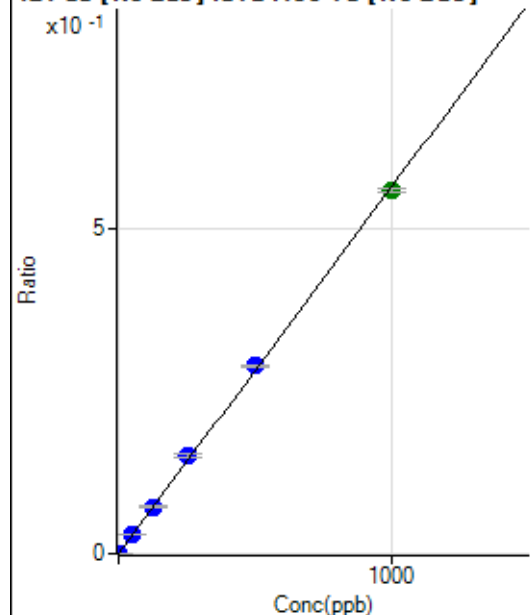
$$DL = 0.06374$$

$$BEC = 0.1091$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	38.89	0.0000	P	73.9
2	☐	2.000	1.959	5003.88	0.0011	P	3.7
3	☐	50.000	52.704	130567.74	0.0297	P	3.9
4	☐	125.000	127.692	320114.24	0.0720	P	2.1
5	☐	250.000	267.485	693186.77	0.1508	P	2.3
6	☐	500.000	511.488	1311361.49	0.2883	P	1.2
7	☐	1000.000	989.413	2633132.57	0.5577	A	0.9
8	☐			3364.39	0.0007	P	0.8

$$y = 5.6364\text{E-}004 * x + 8.4862\text{E-}006$$

$$R = 0.9997$$

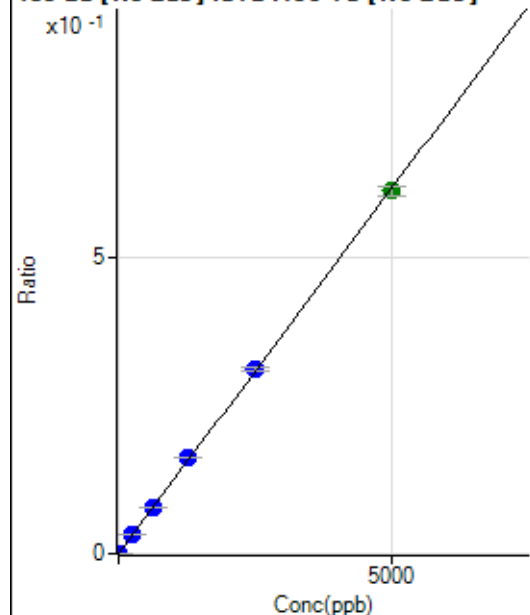
$$DL = 0.03339$$

$$BEC = 0.01506$$

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	51.1
2	☐	10.000	9.701	5404.02	0.0012	P	0.8
3	☐	250.000	261.283	141783.83	0.0323	P	4.5
4	☐	625.000	632.101	347177.41	0.0781	P	1.1
5	☐	1250.000	1321.296	750187.50	0.1632	P	0.6
6	☐	2500.000	2523.099	1417066.50	0.3115	P	1.5
7	☐	5000.000	4969.175	2897567.08	0.6136	A	2.6
8	☐			2355.83	0.0005	P	5.0

$$y = 1.2348\text{E-}004 * x + 3.6897\text{E-}006$$

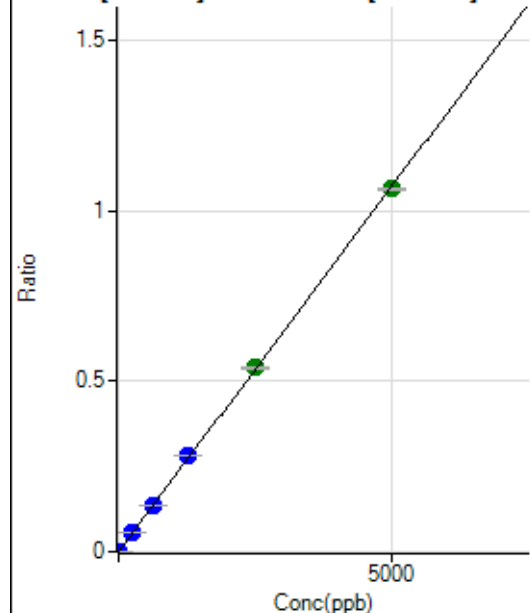
$$R = 0.9999$$

$$DL = 0.04583$$

$$BEC = 0.02988$$

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	13.89	0.0000	P	90.8
2	☐	10.000	10.033	9681.50	0.0022	P	2.6
3	☐	250.000	259.158	244039.27	0.0555	P	2.0
4	☐	625.000	630.313	600587.88	0.1351	P	2.7
5	☐	1250.000	1322.572	1303033.95	0.2834	P	0.5
6	☐	2500.000	2518.449	2454628.74	0.5396	A	0.5
7	☐	5000.000	4971.510	5029556.32	1.0652	A	0.3
8	☐			4375.85	0.0009	P	4.4

$$y = 2.1426E-004 * x + 3.0299E-006$$

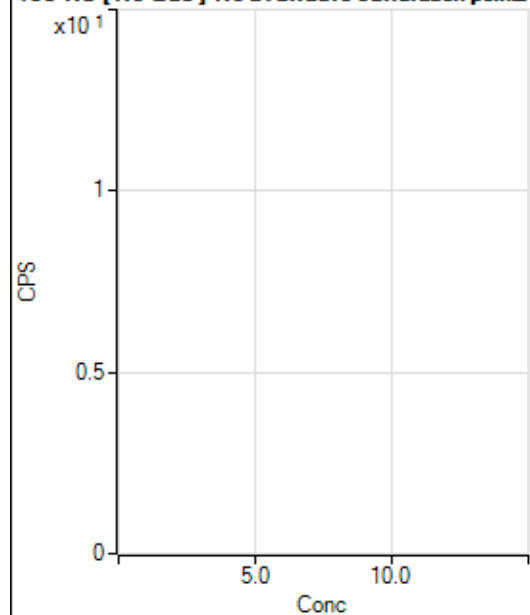
$$R = 0.9999$$

$$DL = 0.03853$$

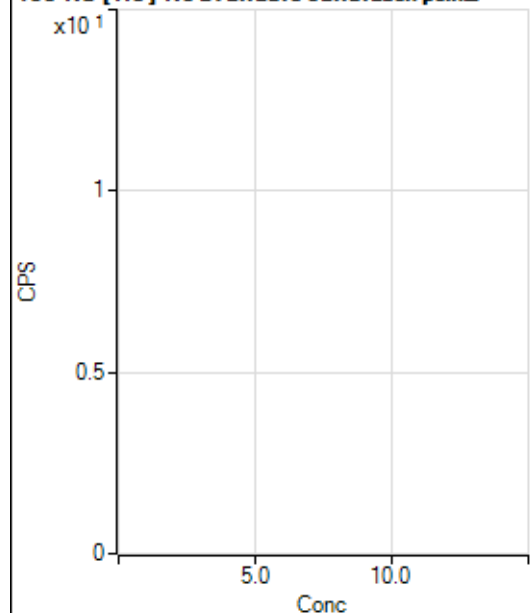
$$BEC = 0.01414$$

Weight: <None>

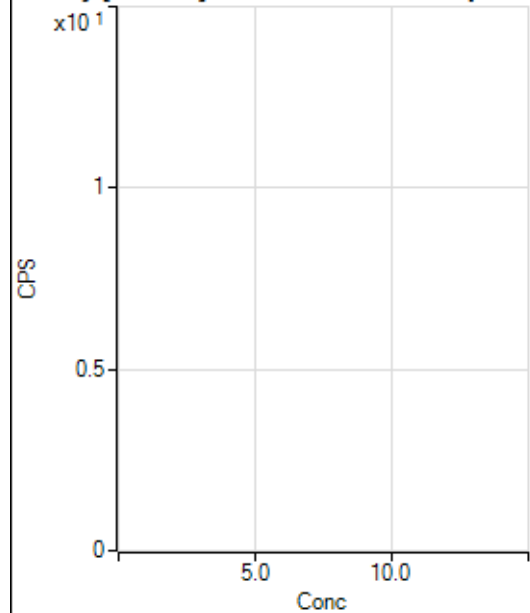
Min Conc: 0

150 Nd [No Gas] No available calibration points

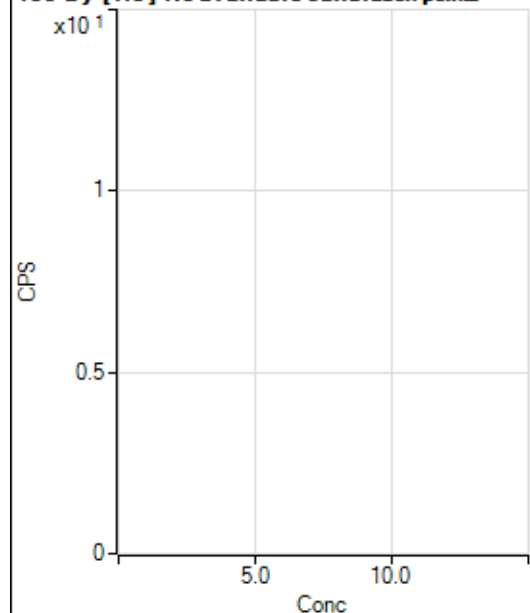
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6.67		P	0.0
2	☐			11.11		P	69.3
3	☐			33.33		P	20.0
4	☐			35.56		P	60.3
5	☐			44.45		P	48.2
6	☐			82.22		P	60.9
7	☐			137.78		P	27.9
8	☐			26.67		P	25.0

150 Nd [He] No available calibration points

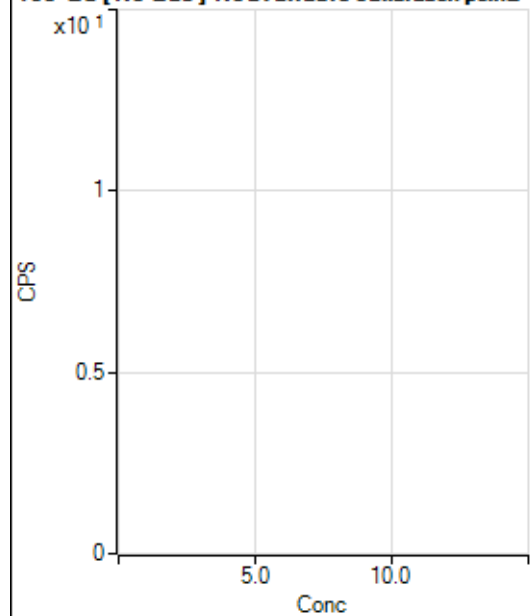
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.
2	☐			1.11		P	173.
3	☐			1.11		P	173.
4	☐			1.11		P	173.
5	☐			10.00		P	33.3
6	☐			10.00		P	57.7
7	☐			14.44		P	35.3
8	☐			1.11		P	173.

156 Dy [No Gas] No available calibration points

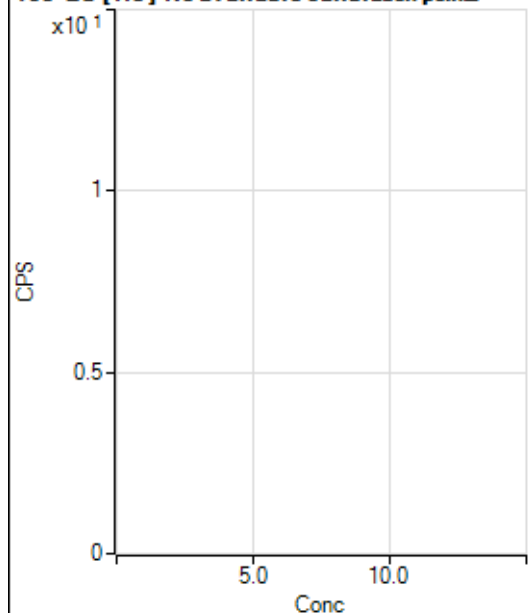
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.55		P	86.6
2	☐			19.44		P	65.5
3	☐			36.11		P	26.7
4	☐			38.89		P	44.6
5	☐			58.34		P	14.3
6	☐			113.89		P	23.5
7	☐			202.79		P	20.3
8	☐			594.47		P	13.0

156 Dy [He] No available calibration points

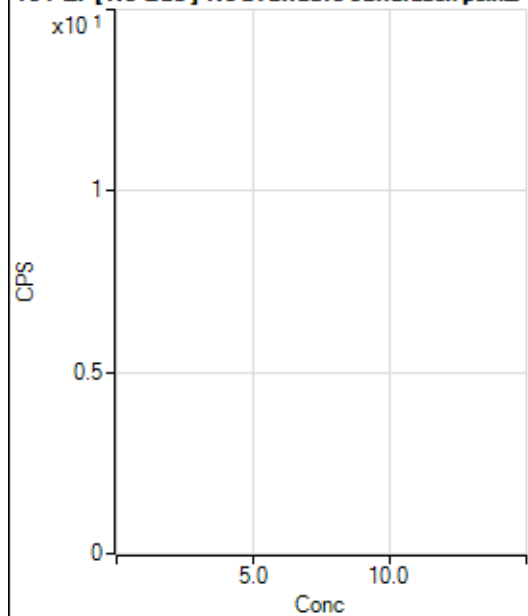
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.45		P	86.6
2	☐			2.22		P	86.6
3	☐			10.00		P	57.8
4	☐			13.33		P	25.0
5	☐			35.56		P	56.5
6	☐			43.33		P	30.8
7	☐			86.67		P	23.1
8	☐			365.56		P	3.7

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

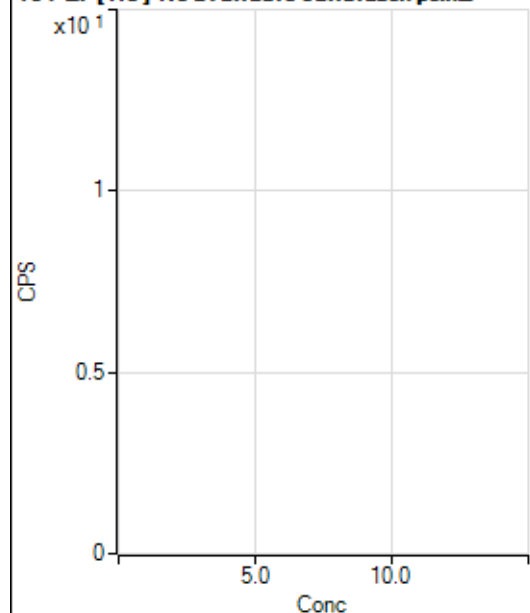
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			94.45		P	36.7
2	☐			86.11		P	22.4
3	☐			86.11		P	31.1
4	☐			119.45		P	8.1
5	☐			58.33		P	24.7
6	☐			150.01		P	20.0
7	☐			186.12		P	30.5
8	☐			686.15		P	13.8

160 Gd [He] No available calibration points

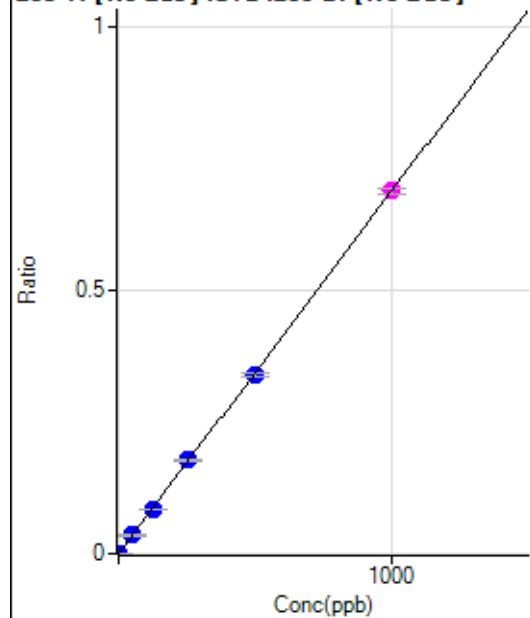
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			31.11		P	22.3
2	☐			20.00		P	92.8
3	☐			24.45		P	43.8
4	☐			35.55		P	44.3
5	☐			52.22		P	13.3
6	☐			56.67		P	21.2
7	☐			120.00		P	22.7
8	☐			454.46		P	3.0

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			22.22		P	57.3
2	☐			19.45		P	107.
3	☐			25.00		P	33.3
4	☐			27.78		P	34.6
5	☐			36.11		P	74.2
6	☐			50.00		P	44.1
7	☐			61.11		P	7.9
8	☐			105.56		P	32.9

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.89		P	43.3
2	☐			6.66		P	86.6
3	☐			13.33		P	25.0
4	☐			10.00		P	33.3
5	☐			27.78		P	48.5
6	☐			18.89		P	44.4
7	☐			30.00		P	44.4
8	☐			53.33		P	6.3

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	88.89	0.0000	P	23.8
2	☐	1.000	0.912	1494.57	0.0007	P	3.0
3	☐	50.000	50.552	76568.16	0.0348	P	2.4
4	☐	125.000	121.631	189619.59	0.0837	P	2.3
5	☐	250.000	259.418	412852.65	0.1784	P	1.8
6	☐	500.000	493.867	772056.85	0.3397	P	1.4
7	☐	1000.000	1001.106	1610393.28	0.6885	M	1.5
8	☐			1361.23	0.0006	P	10.6

$$y = 6.8770E-004 * x + 3.8696E-005$$

$$R = 0.9999$$

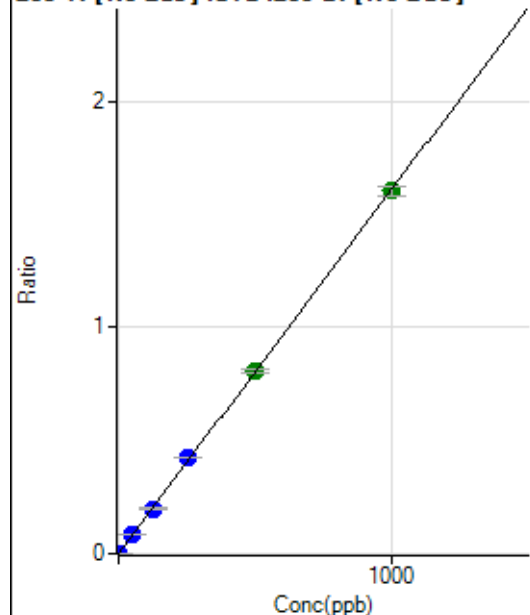
$$DL = 0.04023$$

$$BEC = 0.05627$$

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	138.89	0.0001	P	3.8
2	☐	1.000	0.931	3497.79	0.0016	P	8.3
3	☐	50.000	51.380	182135.42	0.0828	P	1.4
4	☐	125.000	122.811	447894.88	0.1977	P	4.1
5	☐	250.000	263.114	980202.20	0.4236	P	0.8
6	☐	500.000	500.327	1830466.69	0.8054	A	1.8
7	☐	1000.000	996.763	3751199.91	1.6044	A	2.7
8	☐			3008.78	0.0013	P	5.7

$$y = 0.0016 * x + 6.0438E-005$$

$$R = 0.9999$$

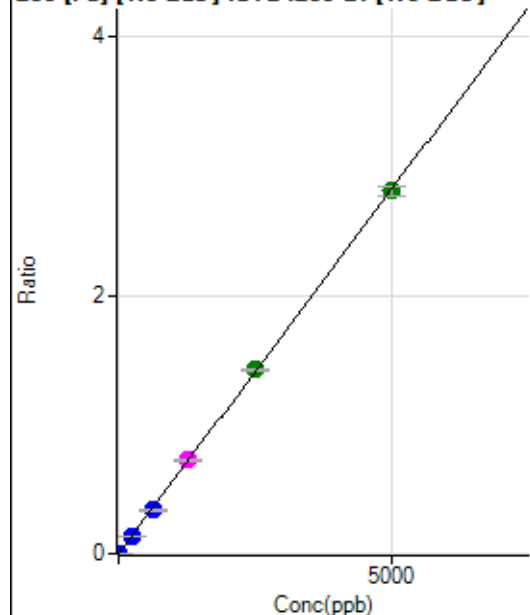
$$DL = 0.004296$$

$$BEC = 0.03755$$

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	142.60	0.0001	P	5.6
2	☐	1.000	0.980	1379.73	0.0006	P	5.3
3	☐	250.000	248.917	309106.53	0.1405	P	0.7
4	☐	625.000	594.962	760631.74	0.3357	P	1.4
5	☐	1250.000	1282.609	1674514.97	0.7236	M	1.7
6	☐	2500.000	2531.266	3245734.36	1.4279	A	1.2
7	☐	5000.000	4980.023	6568605.06	2.8092	A	2.7
8	☐			16918.75	0.0075	P	4.0

$$y = 5.6409E-004 * x + 6.2037E-005$$

$$R = 0.9999$$

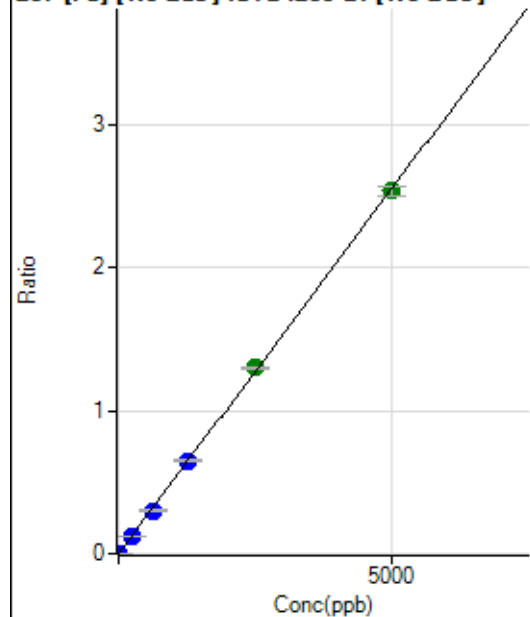
$$DL = 0.01857$$

$$BEC = 0.11$$

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	133.34	0.0001	P	8.6
2	☐	1.000	0.953	1218.60	0.0005	P	5.2
3	☐	250.000	247.438	277282.12	0.1260	P	0.9
4	☐	625.000	588.481	678911.12	0.2996	P	1.7
5	☐	1250.000	1270.576	1496520.26	0.6468	P	1.9
6	☐	2500.000	2548.862	2949549.28	1.2975	A	0.9
7	☐	5000.000	4975.118	5921365.58	2.5326	A	2.7
8	☐			14842.01	0.0066	P	1.6

$$y = 5.0903E-004 * x + 5.8024E-005$$

R = 0.9999

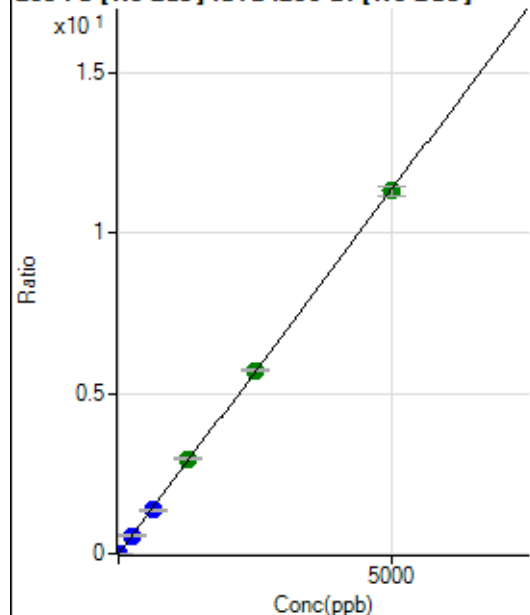
DL = 0.02938

BEC = 0.114

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	592.61	0.0003	P	13.1
2	☐	1.000	0.968	5509.82	0.0025	P	2.8
3	☐	250.000	250.238	1250869.87	0.5684	P	1.0
4	☐	625.000	596.709	3070592.20	1.3551	P	1.6
5	☐	1250.000	1301.152	6836071.22	2.9546	A	1.8
6	☐	2500.000	2513.854	12975655.38	5.7082	A	0.8
7	☐	5000.000	4983.810	26457592.37	11.3164	A	2.9
8	☐			66925.36	0.0298	P	3.5

$$y = 0.0023 * x + 2.5783E-004$$

R = 0.9999

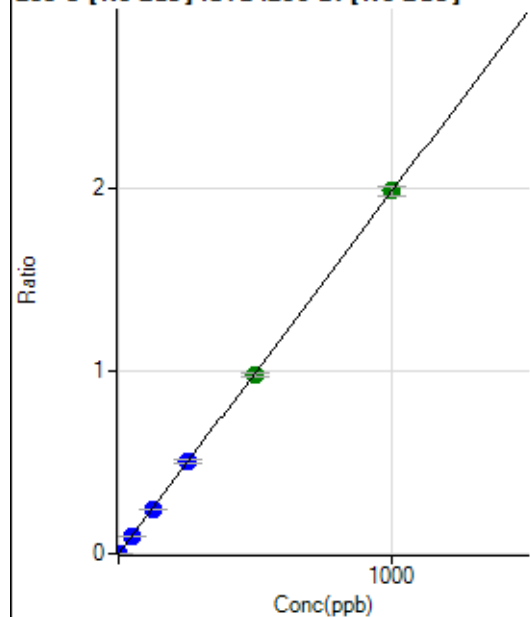
DL = 0.04461

BEC = 0.1136

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	38.89	0.0000	P	53.6
2	☐	1.000	0.901	4045.21	0.0018	P	1.1
3	☐	50.000	49.915	217676.73	0.0989	P	0.2
4	☐	125.000	121.010	543397.19	0.2398	P	1.6
5	☐	250.000	254.899	1168623.22	0.5051	P	2.4
6	☐	500.000	492.487	2218073.18	0.9759	A	2.2
7	☐	1000.000	1003.035	4647268.07	1.9875	A	2.5
8	☐			2808.72	0.0012	P	0.7

$$y = 0.0020 * x + 1.6902E-005$$

$$R = 0.9999$$

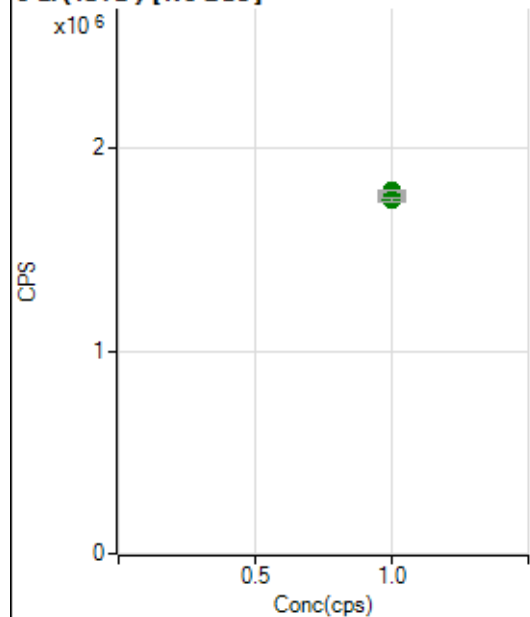
$$DL = 0.01373$$

$$BEC = 0.00853$$

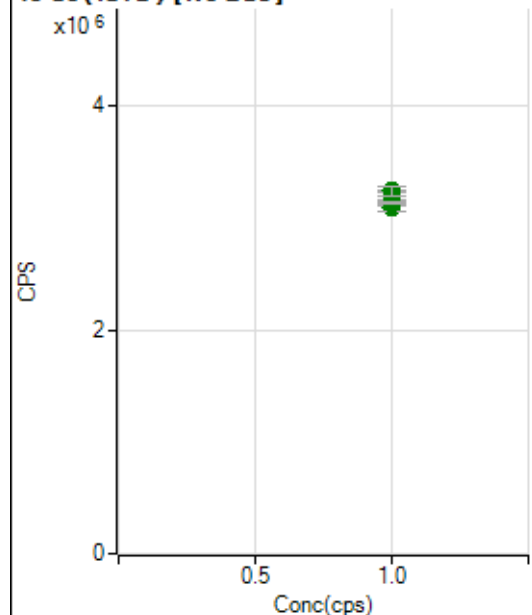
Weight: <None>

Min Conc: 0

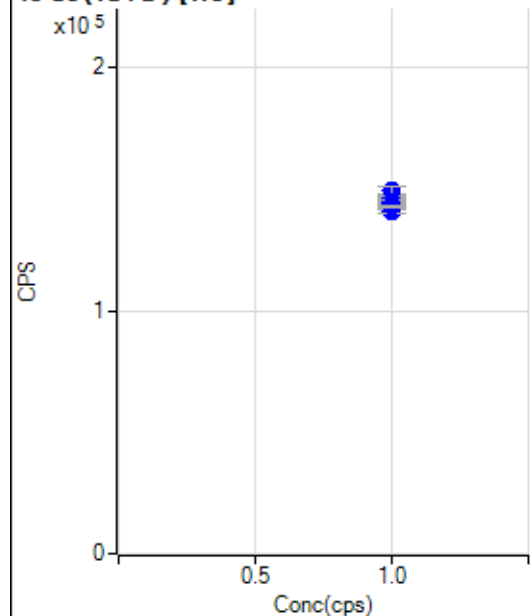
6 Li (ISTD) [No Gas]



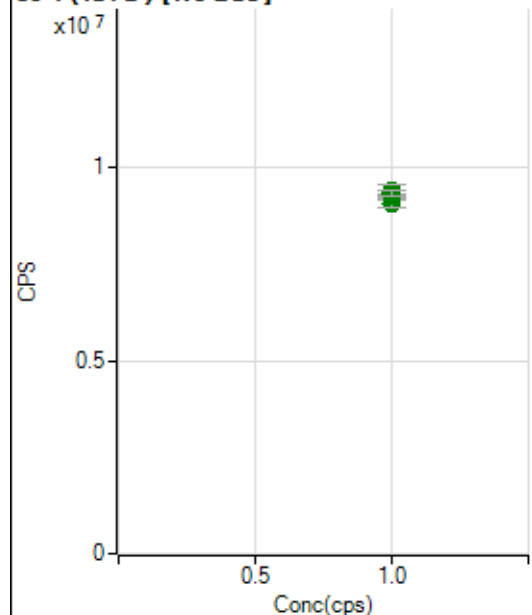
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1790025.69		A	0.5
2	☐	1.000		1753068.12		A	1.2
3	☐	1.000		1772483.17		A	2.1
4	☐	1.000		1766868.88		A	1.6
5	☐	1.000		1768811.12		A	1.3
6	☐	1.000		1756914.24		A	1.5
7	☐	1.000		1791908.73		A	0.3
8	☐	1.000		1749956.45		A	1.0

45 Sc (ISTD) [No Gas]

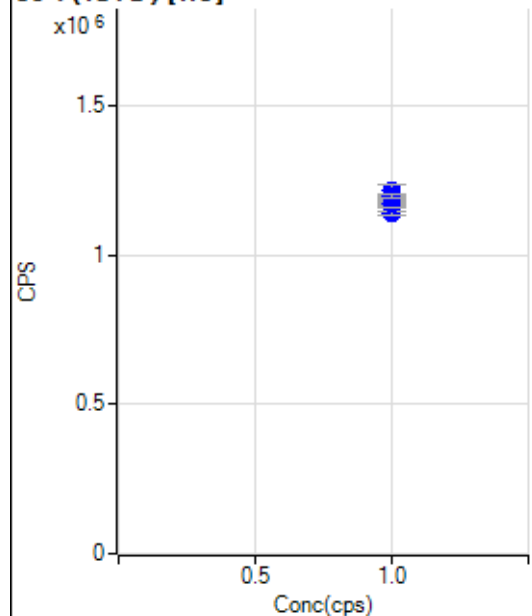
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3138542.77		A	1.3
2	☐	1.000		3106054.33		A	3.0
3	☐	1.000		3120131.52		A	1.0
4	☐	1.000		3094472.25		A	2.5
5	☐	1.000		3143854.29		A	0.8
6	☐	1.000		3129409.29		A	0.5
7	☐	1.000		3238228.56		A	0.6
8	☐	1.000		3243135.13		A	2.8

45 Sc (ISTD) [He]

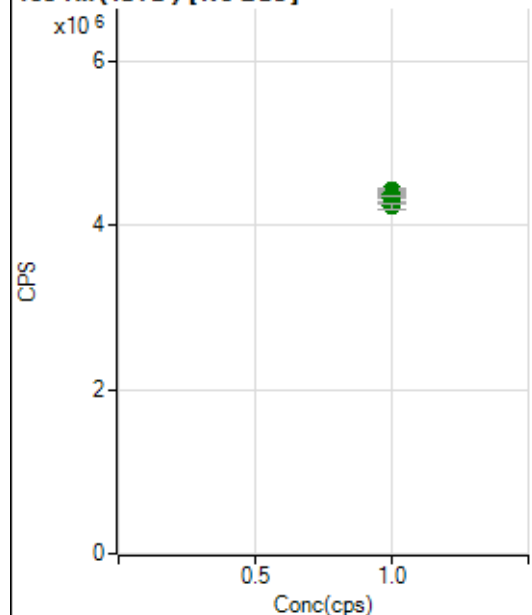
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		140787.82		P	1.3
2	☐	1.000		145508.91		P	1.0
3	☐	1.000		146674.71		P	1.7
4	☐	1.000		149285.14		P	2.7
5	☐	1.000		143485.05		P	0.8
6	☐	1.000		143772.64		P	2.5
7	☐	1.000		144622.04		P	1.4
8	☐	1.000		142989.25		P	0.5

89 Y (ISTD) [No Gas]

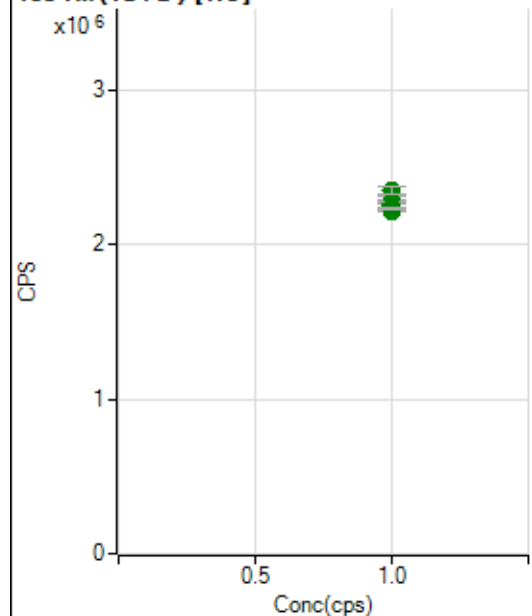
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9301122.22		A	1.9
2	☐	1.000		9310781.87		A	1.7
3	☐	1.000		9210557.78		A	1.2
4	☐	1.000		9059145.56		A	1.9
5	☐	1.000		9350626.04		A	1.5
6	☐	1.000		9256577.43		A	1.5
7	☐	1.000		9393569.10		A	3.1
8	☐	1.000		9333579.79		A	1.7

89 Y (ISTD) [He]

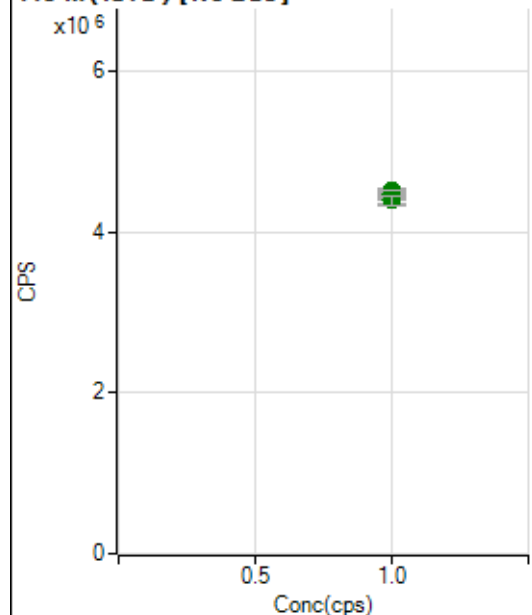
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1140881.07		P	0.9
2	☐	1.000		1171387.42		P	0.5
3	☐	1.000		1199519.84		P	1.3
4	☐	1.000		1217174.01		P	3.2
5	☐	1.000		1175009.25		P	1.2
6	☐	1.000		1172168.69		P	2.3
7	☐	1.000		1191680.06		P	1.1
8	☐	1.000		1200059.60		P	0.9

103 Rh (ISTD) [No Gas]

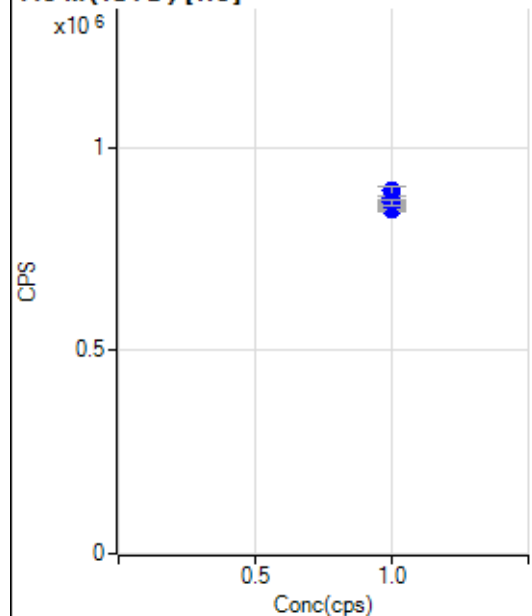
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4419232.00		A	0.8
2	☐	1.000		4415572.80		A	1.7
3	☐	1.000		4354711.30		A	1.1
4	☐	1.000		4325198.15		A	1.9
5	☐	1.000		4383050.27		A	1.7
6	☐	1.000		4353292.11		A	2.6
7	☐	1.000		4357572.49		A	0.4
8	☐	1.000		4235319.49		A	1.6

103 Rh (ISTD) [He]

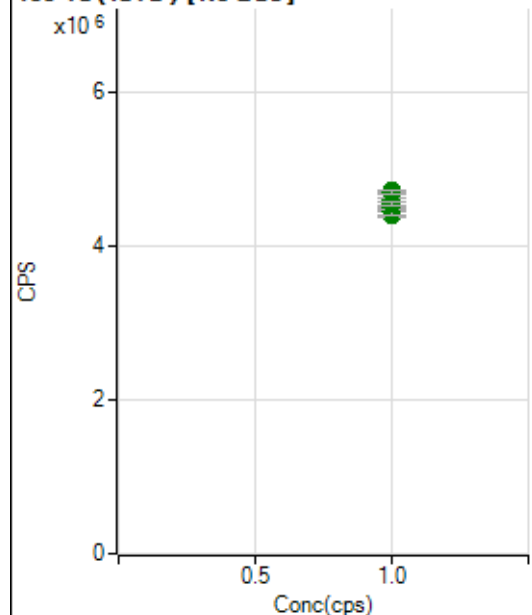
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2216354.64		A	0.2
2	☐	1.000		2250311.77		A	1.1
3	☐	1.000		2289453.02		A	2.6
4	☐	1.000		2346391.53		A	2.2
5	☐	1.000		2265877.10		A	0.8
6	☐	1.000		2254542.67		A	2.7
7	☐	1.000		2257545.38		A	1.3
8	☐	1.000		2235856.04		A	0.8

115 In (ISTD) [No Gas]

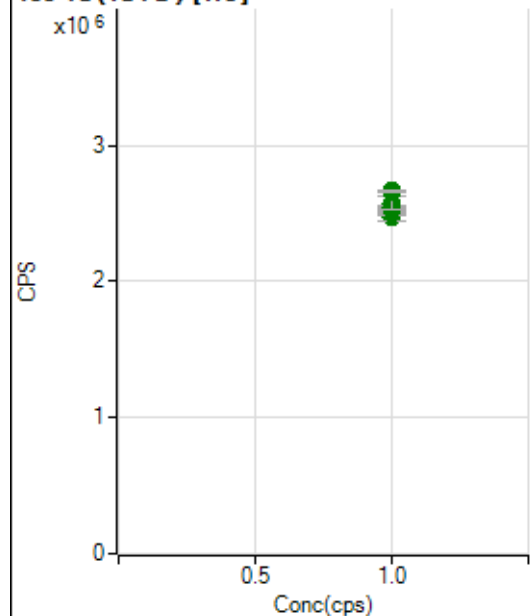
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4505577.15		A	1.1
2	☐	1.000		4482523.38		A	0.6
3	☐	1.000		4437996.01		A	2.4
4	☐	1.000		4400166.69		A	2.0
5	☐	1.000		4463508.65		A	1.8
6	☐	1.000		4493953.66		A	0.5
7	☐	1.000		4475331.10		A	2.0
8	☐	1.000		4385824.11		A	2.4

115 In (ISTD) [He]

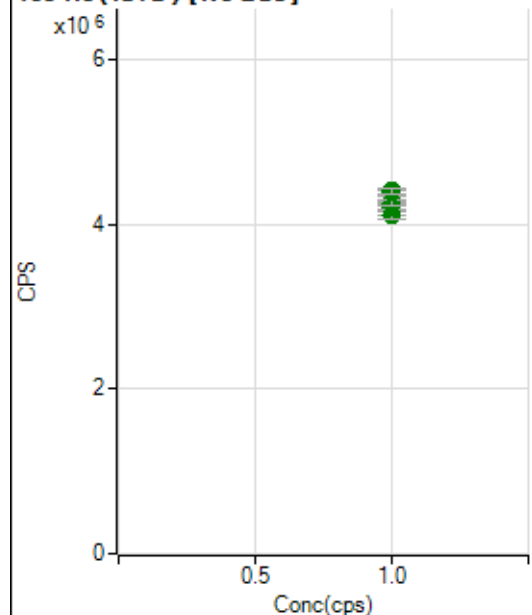
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		847378.74		P	0.7
2	☐	1.000		855079.60		P	0.7
3	☐	1.000		876490.41		P	1.5
4	☐	1.000		893566.68		P	2.7
5	☐	1.000		864212.99		P	0.5
6	☐	1.000		857861.59		P	2.8
7	☐	1.000		865155.83		P	0.8
8	☐	1.000		864394.70		P	1.5

159 Tb (ISTD) [No Gas]

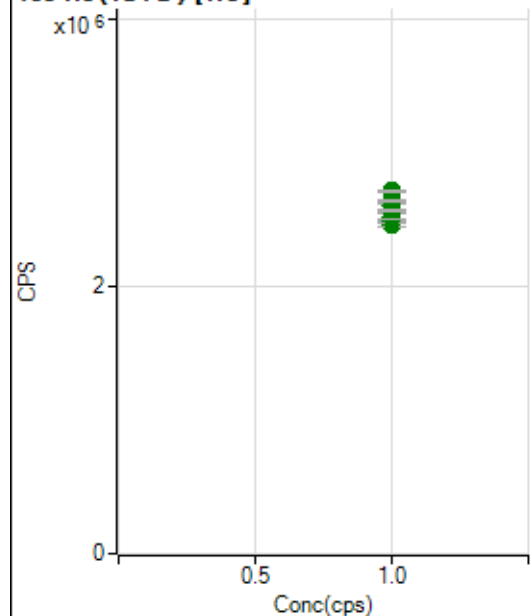
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4544187.36		A	2.1
2	☐	1.000		4497768.79		A	1.4
3	☐	1.000		4394897.12		A	0.9
4	☐	1.000		4448373.16		A	1.9
5	☐	1.000		4598324.20		A	1.3
6	☐	1.000		4548989.27		A	1.3
7	☐	1.000		4721725.31		A	0.8
8	☐	1.000		4701517.15		A	0.8

159 Tb (ISTD) [He]

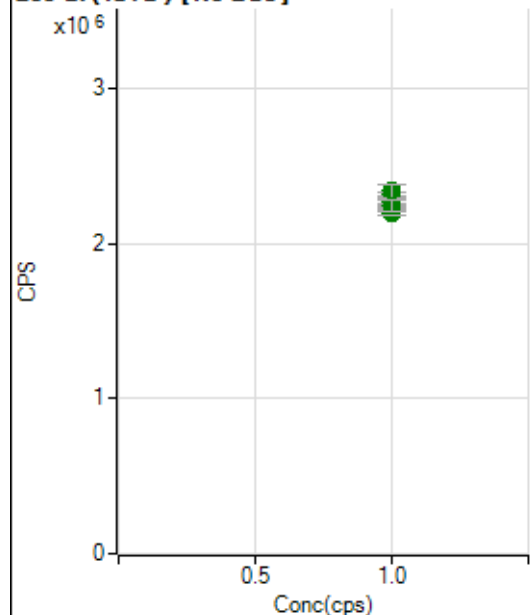
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2475322.27		A	2.1
2	☐	1.000		2496061.06		A	0.5
3	☐	1.000		2529118.05		A	1.4
4	☐	1.000		2575646.79		A	4.1
5	☐	1.000		2540155.29		A	1.0
6	☐	1.000		2577865.46		A	4.0
7	☐	1.000		2651189.14		A	0.0
8	☐	1.000		2665140.45		A	0.5

165 Ho (ISTD) [No Gas]

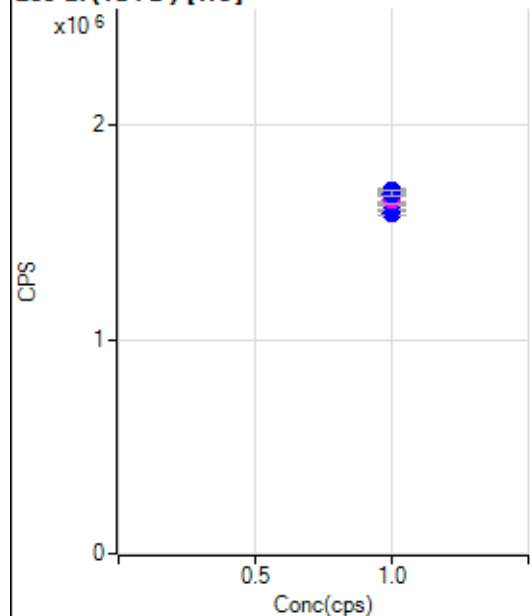
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4265966.98		A	0.4
2	☐	1.000		4215766.63		A	2.8
3	☐	1.000		4151193.02		A	1.7
4	☐	1.000		4112326.87		A	2.3
5	☐	1.000		4210304.91		A	1.7
6	☐	1.000		4253992.28		A	1.5
7	☐	1.000		4381344.97		A	1.8
8	☐	1.000		4405028.35		A	1.9

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2462803.96		A	1.8
2	☐	1.000		2490864.96		A	1.2
3	☐	1.000		2577675.78		A	2.3
4	☐	1.000		2594726.67		A	3.8
5	☐	1.000		2519738.02		A	1.3
6	☐	1.000		2568478.17		A	0.7
7	☐	1.000		2640978.67		A	0.6
8	☐	1.000		2710165.83		A	0.4

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2298305.38		A	0.4
2	☐	1.000		2243540.63		A	0.5
3	☐	1.000		2200505.89		A	1.7
4	☐	1.000		2266370.66		A	2.0
5	☐	1.000		2314060.76		A	1.4
6	☐	1.000		2273338.51		A	1.8
7	☐	1.000		2339621.40		A	3.7
8	☐	1.000		2249015.40		A	3.2

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1592026.23		P	1.2
2	☐	1.000		1609237.65		P	0.2
3	☐	1.000		1622719.27		P	1.5
4	☐	1.000		1674471.85		M	3.7
5	☐	1.000		1631350.25		P	0.8
6	☐	1.000		1655590.76		M	2.3
7	☐	1.000		1694119.44		P	0.8
8	☐	1.000		1681222.28		P	1.6

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8040121-MS.b
Acq. Date-Time 2021-04-01 10:42:25
Report Comment ---
Instrument Name G8403A SG19224459

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		6517	65166.23			3.014	5.000
24		91685	916851.00			3.404	5.000
25		12462	124624.28			3.243	5.000
26		13764	137644.47			3.314	5.000
59		14700	146996.63			3.023	5.000
113		5615	56147.83			3.351	5.000
115		18708	187084.59			2.930	5.000
206		5861	58614.97			3.726	5.000
207		4951	49510.60			3.463	5.000
208		12072	120718.60			3.486	5.000
220		1	14.50			18.570	

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

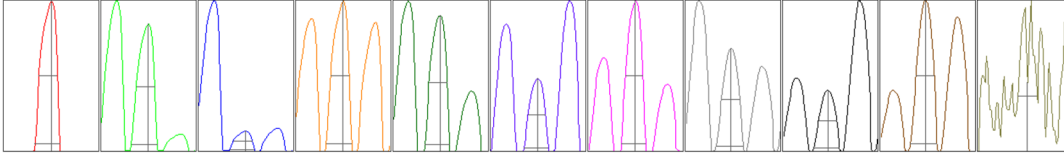
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	6505	6457	6227	6667	6727
24	90426	90243	88025	93952	95780
25	12388	12204	11979	12787	12954
26	13603	13575	13186	14183	14275
59	14510	14499	14167	15118	15204
113	5558	5530	5374	5792	5819
115	18745	18495	17894	19214	19195
206	5762	5742	5622	6045	6136
207	4892	4830	4768	5131	5134
208	11838	11879	11608	12470	12565

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	11826.84	9.05	8.90 - 9.10	
24	164205.27	24.00	23.90 - 24.10	
25	21730.73	25.00	24.90 - 25.10	
26	24716.68	26.00	25.90 - 26.10	
59	26897.31	59.00	58.90 - 59.10	
113	10675.48	113.00	112.90 - 113.10	
115	35512.82	115.00	114.90 - 115.10	
206	10536.98	205.95	205.90 - 206.10	
207	8687.05	206.95	206.90 - 207.10	
208	21588.92	207.95	207.90 - 208.10	
220	1.30	220.10	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.59	0.773	0.900	
24	0.58	0.818	0.900	
25	0.61	0.786	0.900	
26	0.59	0.816	0.900	
59	0.58	0.773	0.900	
113	0.55	0.769	0.900	
115	0.54	0.772	0.900	
206	0.58	0.855	0.900	
207	0.58	0.806	0.900	
208	0.58	0.830	0.900	
220	0.60			

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode HMI Nebulizer Gas 0.52 L/min Dilution Gas 0.47 L/min

US EPA Tune Check Report

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

Lens Parameters

Extract 1	-6.0 V	Omega Lens	8.1 V	Deflect	14.6 V
Extract 2	-250.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-120 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	180 V		

QP Parameters

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

Hardware Settings

Torch

Torch H	1.3 mm	Torch V	-1.0 mm
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EM

Discriminator	3.9 mV	Analog HV	2190 V	Pulse HV	1370 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		3329	33292.97			0.206	
89		19309	193093.00			0.524	
205		5871	58709.25			0.672	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	3323	3335	3325	3338	3326
89	19270	19218	19338	19249	19472
205	5857	5905	5920	5837	5836

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	HMI	Nebulizer Gas	0.52 L/min	Dilution Gas	0.47 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	8.1 V	Deflect	4.6 V
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US EPA Tune Check Report

Extract 2	-250.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-120 V	Cell Exit	-70 V		
Cell Parameters					
Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	4.5 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		
QP Parameters					
Mass Gain	121	Axis Gain	0.9991	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.02		
Hardware Settings					
Torch					
Torch H	1.3 mm	Torch V	-1.0 mm		
EM					
Discriminator	3.9 mV	Analog HV	2190 V	Pulse HV	1370 V