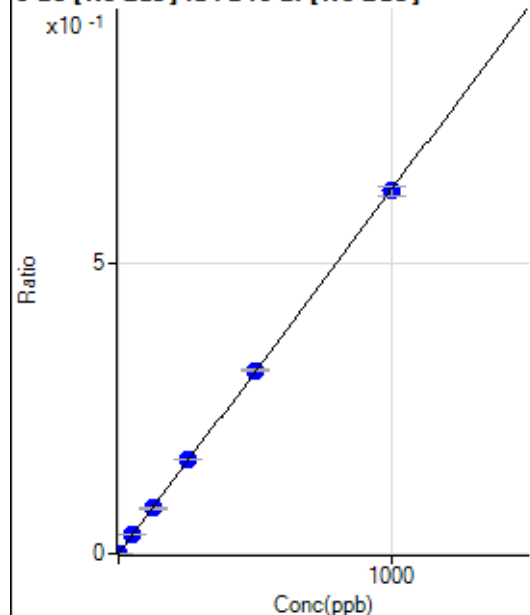


Batch Folder: C:\Agilent\ICPMH\1\DATA\P7092921-MS.b\
Analysis File: P7092921-MS.batch.bin
DA Date-Time: 2021-11-03 16:10:17
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2021-09-29 14:59:47
2	005CALS.d	S02	2021-09-29 15:05:39
3	006CALS.d	S03	2021-09-29 15:08:36
4	007CALS.d	S04	2021-09-29 15:11:31
5	008CALS.d	S05	2021-09-29 15:14:23
6	009CALS.d	S06	2021-09-29 15:17:10
7	010CALS.d	S07	2021-09-29 15:19:53
8	011CALS.d	S08	2021-09-29 15:22:37

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	20.00	0.0000	P	0.1
2	☐	1.000	0.996	2926.98	0.0006	P	2.8
3	☐	50.000	52.399	149805.38	0.0329	P	0.7
4	☐	125.000	125.259	363710.21	0.0786	P	3.2
5	☐	250.000	257.535	701156.58	0.1616	P	0.6
6	☐	500.000	502.837	1362328.47	0.3155	P	1.1
7	☐	1000.000	996.545	2585316.91	0.6252	P	2.7
8	☐			213.34	0.0001	P	25.6

$$y = 6.2736\text{E-}004 * x + 4.3800\text{E-}006$$

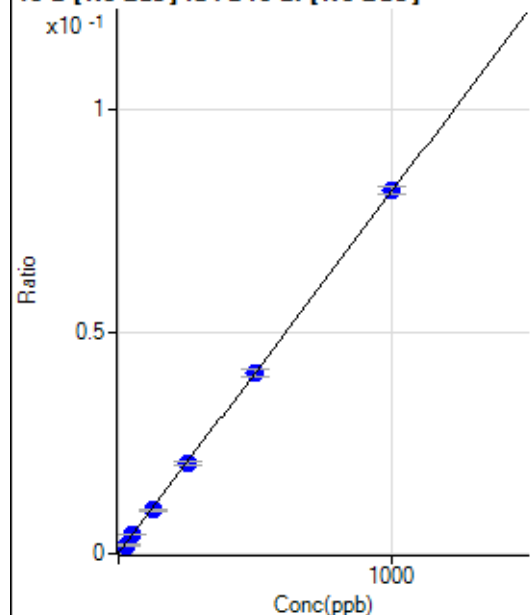
$$R = 1.0000$$

$$DL = 3.02\text{E-}05$$

$$BEC = 0.006982$$

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	344.46	0.0001	P	24.6
2	☐	25.000	22.716	8975.10	0.0019	P	6.0
3	☐	50.000	50.873	19254.26	0.0042	P	2.5
4	☐	125.000	119.135	45346.42	0.0098	P	1.2
5	☐	250.000	247.996	88111.43	0.0203	P	3.7
6	☐	500.000	498.320	175816.36	0.0407	P	3.6
7	☐	1000.000	1002.088	338363.09	0.0818	P	2.2
8	☐			9783.98	0.0025	P	8.9

$$y = 8.1574\text{E-}005 * x + 7.5453\text{E-}005$$

$$R = 1.0000$$

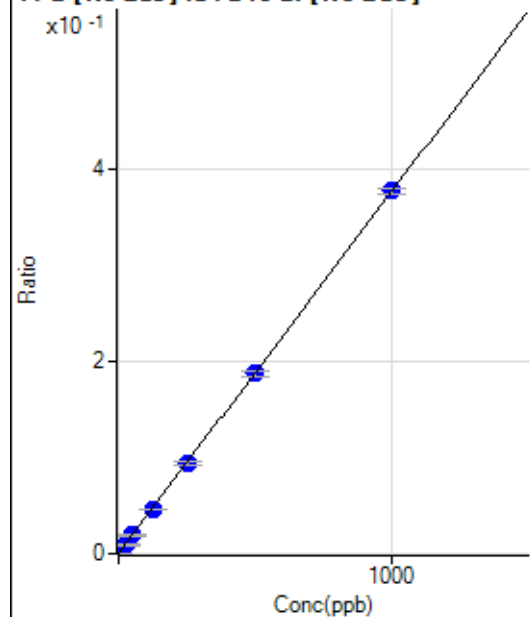
$$DL = 0.6835$$

$$BEC = 0.925$$

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	1425.10	0.0003	P	3.0
2	☐	25.000	23.475	42563.37	0.0091	P	4.2
3	☐	50.000	50.279	87661.67	0.0192	P	3.1
4	☐	125.000	120.335	211102.93	0.0456	P	2.5
5	☐	250.000	248.498	407230.63	0.0938	P	2.9
6	☐	500.000	497.026	809018.46	0.1874	P	3.1
7	☐	1000.000	1002.470	1561999.05	0.3776	P	1.2
8	☐			44120.53	0.0114	P	8.9

$$y = 3.7639\text{E-}004 * x + 3.1210\text{E-}004$$

$$R = 1.0000$$

$$DL = 0.07564$$

$$BEC = 0.8292$$

Weight: <None>

Min Conc: 0

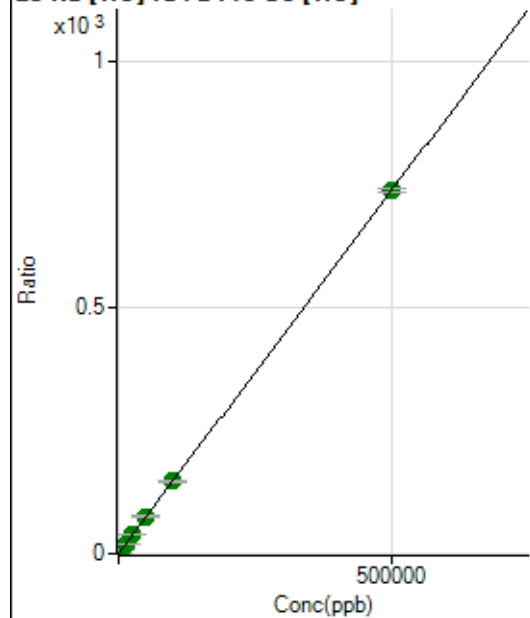
12 C [No Gas] No available calibration points



	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	14920.54	0.0246	P	0.7
2	☐	500.000	500.934	464394.38	0.7625	P	0.8
3	☐	5000.000	5290.897	4712486.21	7.8180	A	0.9
4	☐	12500.000	13268.190	11420510.79	19.5684	A	0.7
5	☐	25000.000	26425.477	22275283.37	38.9489	A	0.8
6	☐	50000.000	51631.257	43823894.96	76.0767	A	1.2
7	☐	100000.00	99806.798	87388300.10	147.0385	A	2.0
8	☐	500000.00	499782.12	434889372.68	736.1963	A	1.0

$$y = 0.0015 * x + 0.0246$$

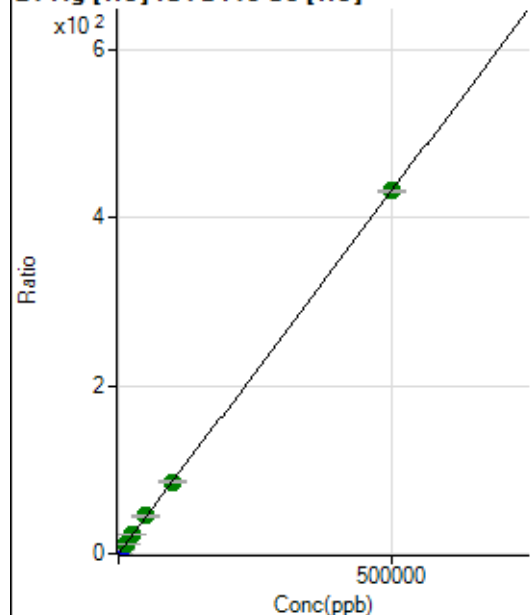
$$R = 1.0000$$

$$DL = 0.337$$

$$BEC = 16.7$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	181.49	0.0003	P	16.3
2	☐	500.000	493.698	260095.00	0.4270	P	0.4
3	☐	5000.000	5251.509	2736390.52	4.5395	P	0.3
4	☐	12500.000	13315.606	6717345.87	11.5098	A	1.1
5	☐	25000.000	26360.584	13031021.47	22.7854	A	0.3
6	☐	50000.000	51729.837	25758037.84	44.7137	A	0.9
7	☐	100000.00	98553.369	50629873.35	85.1863	A	2.1
8	☐	500000.00	500025.41	255300216.82	432.2041	A	0.4

$$y = 8.6436\text{E-}004 * x + 2.9906\text{E-}004$$

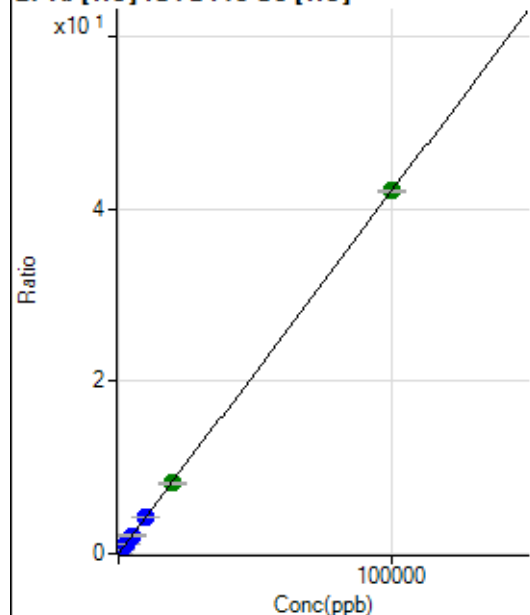
$$R = 1.0000$$

$$DL = 0.1695$$

$$BEC = 0.346$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	174.08	0.0003	P	30.6
2	☐	20.000	20.178	5336.21	0.0088	P	4.1
3	☐	1000.000	1024.066	259437.93	0.4304	P	0.7
4	☐	2500.000	2559.846	627659.43	1.0755	P	0.9
5	☐	5000.000	5031.343	1208732.19	2.1135	P	0.6
6	☐	10000.000	9988.016	2416790.91	4.1954	P	1.0
7	☐	20000.000	19446.270	4854157.75	8.1680	A	2.6
8	☐	100000.00	100108.64	24838118.15	42.0474	A	0.8

$$y = 4.2002\text{E-}004 * x + 2.8675\text{E-}004$$

$$R = 1.0000$$

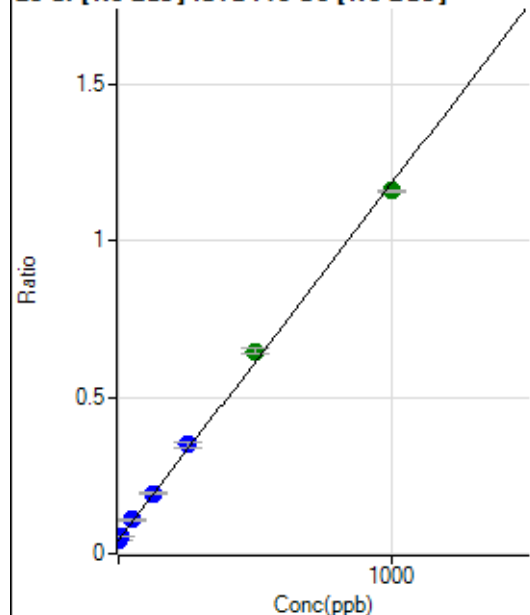
$$DL = 0.6257$$

$$BEC = 0.6827$$

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	343503.38	0.0437	P	0.7
2	☐	10.000	8.892	418866.36	0.0538	P	0.2
3	☐	50.000	56.273	827541.72	0.1078	P	2.3
4	☐	125.000	131.096	1475758.12	0.1930	P	4.3
5	☐	250.000	267.115	2559121.98	0.3478	P	4.1
6	☐	500.000	530.208	4776140.65	0.6473	A	3.2
7	☐	1000.000	979.553	8525746.81	1.1588	A	0.5
8	☐			749336.24	0.0997	P	4.9

$$y = 0.0011 * x + 0.0437$$

$$R = 0.9991$$

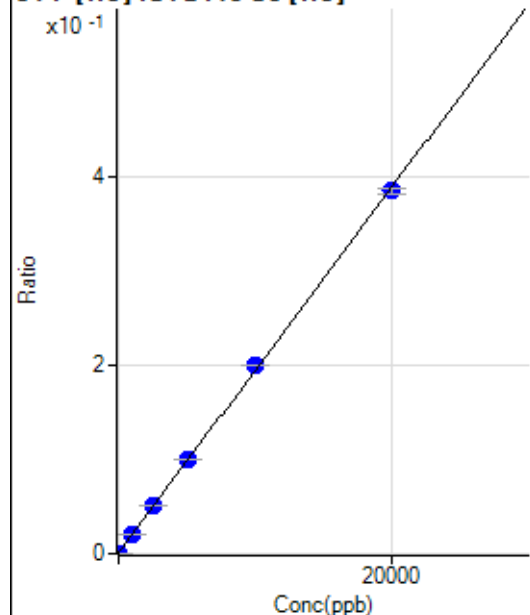
$$DL = 0.8263$$

$$BEC = 38.41$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	1.399	536.13	0.0009	P	25.5
2	☐	0.000	-1.399	505.58	0.0008	P	12.2
3	☐	1000.000	1031.705	12547.29	0.0208	P	3.0
4	☐	2500.000	2579.016	29621.60	0.0508	P	2.3
5	☐	5000.000	5139.979	57365.99	0.1003	P	1.1
6	☐	10000.000	10261.778	114872.19	0.1994	P	0.5
7	☐	20000.000	19822.654	228452.65	0.3844	P	1.8
8	☐			630.59	0.0011	P	11.7

$$y = 1.9348E-005 * x + 8.5692E-004$$

$$R = 0.9998$$

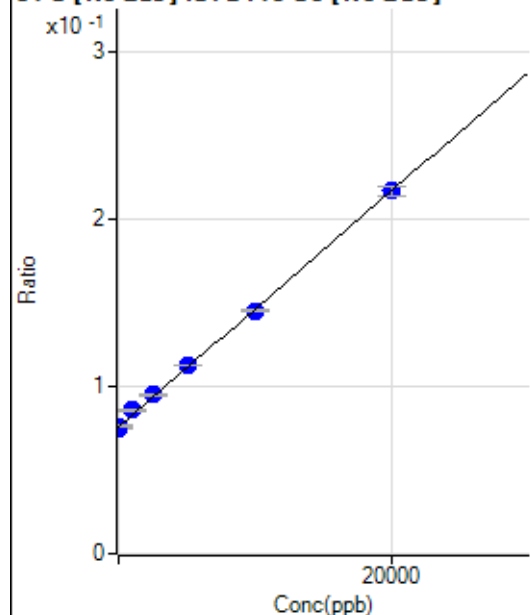
$$DL = 25.35$$

$$BEC = 44.29$$

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	-78.930	590960.48	0.0752	P	0.7
2	☐	0.000	78.930	593801.11	0.0763	P	0.5
3	☐	1000.000	1434.862	659542.15	0.0859	P	0.9
4	☐	2500.000	2724.922	726960.06	0.0950	P	1.2
5	☐	5000.000	5207.458	828312.85	0.1126	P	0.1
6	☐	10000.000	9848.269	1072682.00	0.1454	P	0.4
7	☐	20000.000	19974.143	1595114.56	0.2169	P	2.6
8	☐			486298.67	0.0647	P	2.3

$$y = 7.0654E-006 * x + 0.0758$$

$$R = 0.9997$$

$$DL = 195.3$$

$$BEC = 1.072E+04$$

Weight: <None>

Min Conc: 0

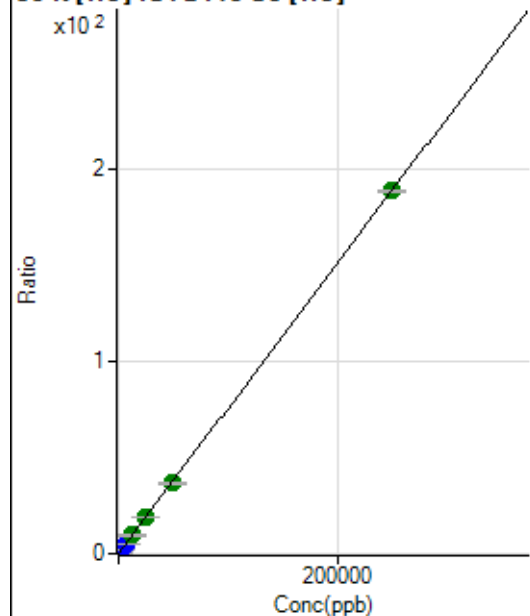
35 Cl [No Gas] No available calibration points



	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	71904.56	0.1186	P	2.7
2	☐	500.000	507.481	305132.74	0.5010	P	0.6
3	☐	2500.000	2699.728	1297747.11	2.1529	P	0.5
4	☐	6250.000	6727.730	3027891.84	5.1881	P	1.0
5	☐	12500.000	12480.280	5446075.43	9.5229	A	1.0
6	☐	25000.000	25057.225	10945452.33	19.0001	A	1.0
7	☐	50000.000	48543.936	21810516.28	36.6982	A	2.1
8	☐	250000.00	250272.52	111471634.44	188.7080	A	0.5

$$y = 7.5354\text{E-}004 * x + 0.1186$$

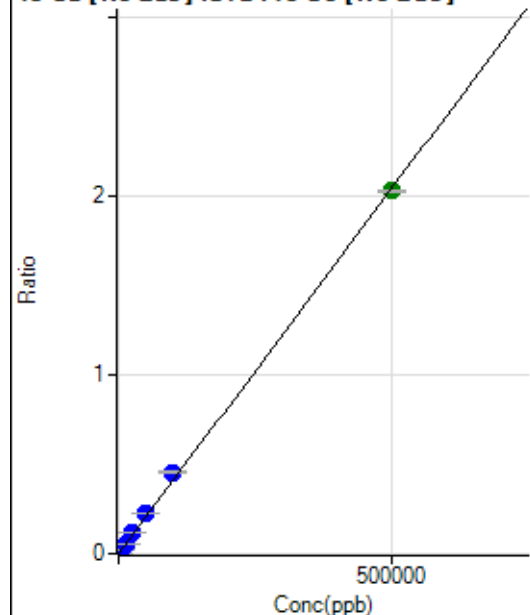
$$R = 1.0000$$

$$DL = 12.86$$

$$BEC = 157.3$$

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	175.01	0.0000	P	20.9
2	☐	500.000	513.467	16484.57	0.0021	P	1.8
3	☐	5000.000	5735.259	179964.36	0.0234	P	0.9
4	☐	12500.000	13943.551	435734.67	0.0570	P	1.6
5	☐	25000.000	28041.871	842778.36	0.1145	P	0.6
6	☐	50000.000	55369.007	1668718.69	0.2261	P	0.2
7	☐	100000.00	110911.30	3330893.91	0.4529	P	2.7
8	☐	500000.00	497085.29	15264067.88	2.0299	A	0.4

$$y = 4.0835E-006 * x + 2.2282E-005$$

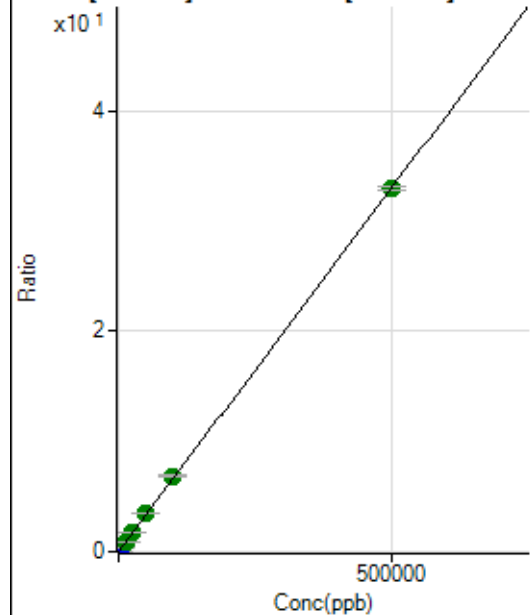
$$R = 0.9997$$

$$DL = 3.429$$

$$BEC = 5.457$$

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	10442.90	0.0013	P	1.5
2	☐	500.000	523.380	278814.99	0.0358	P	0.6
3	☐	5000.000	5624.606	2857372.83	0.3722	P	1.5
4	☐	12500.000	12817.795	6475567.55	0.8465	A	2.0
5	☐	25000.000	25626.992	12444377.28	1.6912	A	0.9
6	☐	50000.000	51876.963	25253931.30	3.4221	A	0.2
7	☐	100000.00	103913.82	50396809.81	6.8534	A	3.1
8	☐	500000.00	498983.97	247418163.86	32.9043	A	1.0

$$y = 6.5940E-005 * x + 0.0013$$

$$R = 1.0000$$

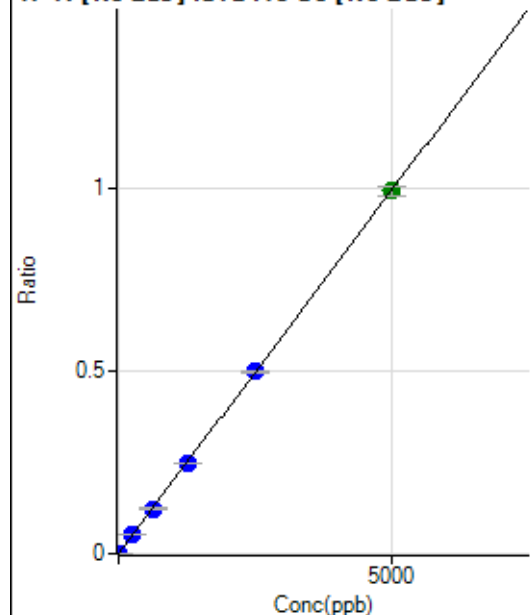
$$DL = 0.9015$$

$$BEC = 20.16$$

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	94.45	0.0000	P	49.2
2	☐	5.000	5.032	7866.17	0.0010	P	5.4
3	☐	250.000	259.468	395514.59	0.0515	P	1.0
4	☐	625.000	622.204	944941.30	0.1235	P	1.8
5	☐	1250.000	1255.653	1834295.96	0.2493	P	0.2
6	☐	2500.000	2503.865	3668172.70	0.4971	P	0.5
7	☐	5000.000	4996.530	7294515.87	0.9919	A	2.8
8	☐			980.61	0.0001	P	16.4

$$y = 1.9852\text{E-}004 * x + 1.2043\text{E-}005$$

$$R = 1.0000$$

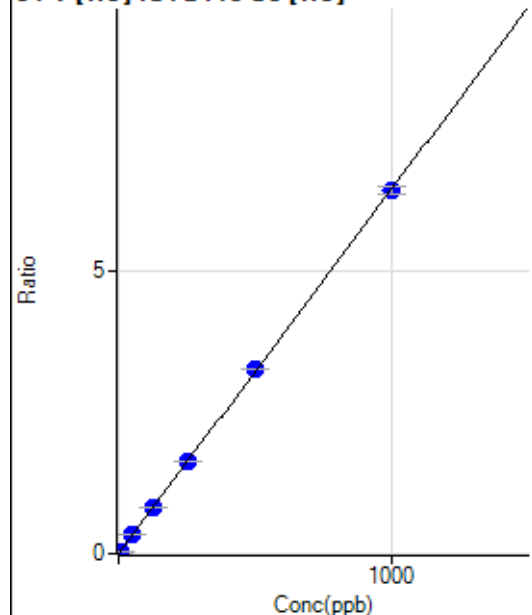
$$DL = 0.0895$$

$$BEC = 0.06066$$

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	11.11	0.0000	P	86.6
2	☐	5.000	5.014	19635.39	0.0322	P	0.9
3	☐	50.000	50.924	197282.96	0.3273	P	0.1
4	☐	125.000	127.525	478314.60	0.8196	P	0.9
5	☐	250.000	254.420	935091.25	1.6351	P	0.5
6	☐	500.000	506.001	1873325.72	3.2519	P	0.5
7	☐	1000.000	995.533	3802361.16	6.3979	P	2.1
8	☐			587.79	0.0010	P	14.1

$$y = 0.0064 * x + 1.8359\text{E-}005$$

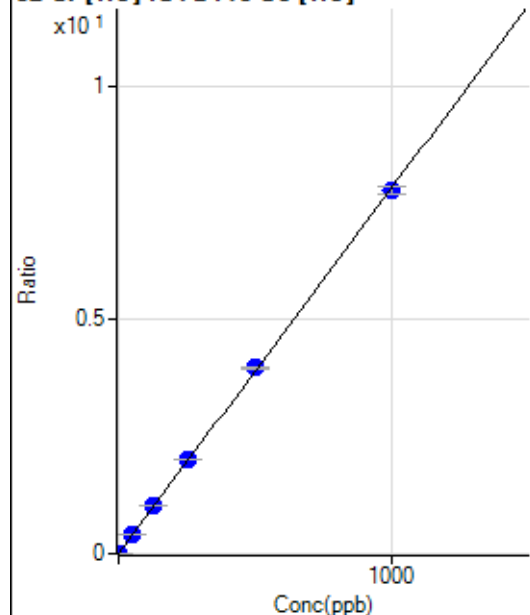
$$R = 1.0000$$

$$DL = 0.007422$$

$$BEC = 0.002857$$

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	1210.06	0.0020	P	1.1
2	☐	2.000	2.045	10947.48	0.0180	P	2.9
3	☐	50.000	51.772	244950.83	0.4064	P	0.2
4	☐	125.000	128.967	589055.80	1.0093	P	0.4
5	☐	250.000	257.410	1150962.00	2.0125	P	0.4
6	☐	500.000	509.545	2293767.64	3.9818	P	1.0
7	☐	1000.000	992.790	4609548.65	7.7563	P	2.3
8	☐			9538.71	0.0162	P	2.9

$$y = 0.0078 * x + 0.0020$$

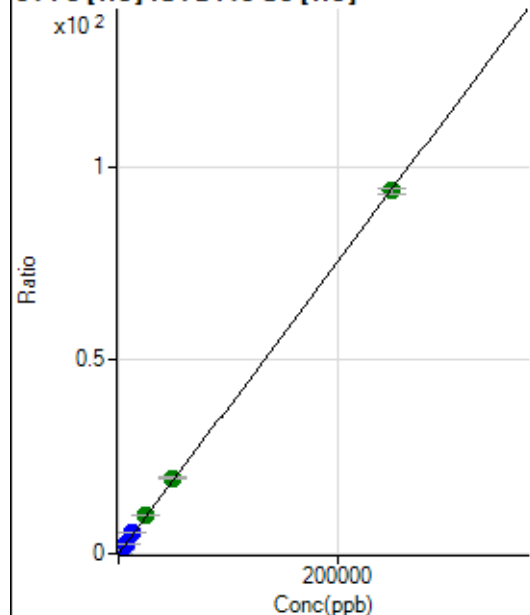
$$R = 0.9999$$

$$DL = 0.008679$$

$$BEC = 0.2554$$

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	1808.65	0.0030	P	6.4
2	☐	50.000	55.657	14555.46	0.0239	P	3.8
3	☐	2500.000	2820.889	640884.54	1.0632	P	0.7
4	☐	6250.000	7005.719	1538475.32	2.6361	P	0.4
5	☐	12500.000	14014.146	3014017.74	5.2702	P	0.7
6	☐	25000.000	26820.902	5808949.11	10.0837	A	1.1
7	☐	50000.000	52010.462	11620249.32	19.5512	A	1.6
8	☐	250000.00	249318.00	55352170.64	93.7096	A	1.5

$$y = 3.7585E-004 * x + 0.0030$$

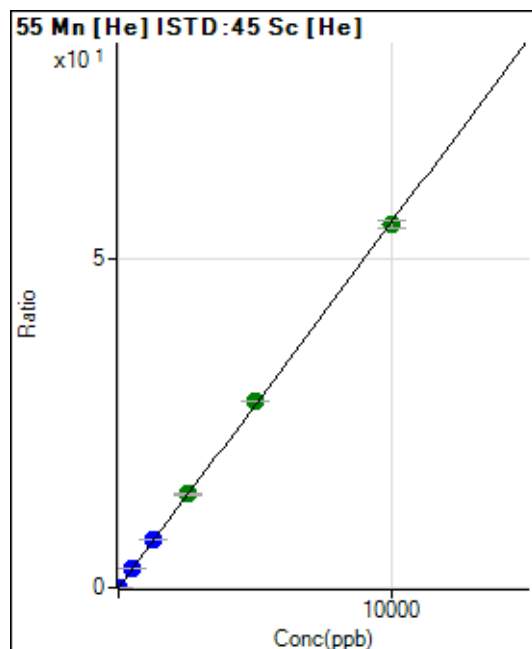
$$R = 0.9999$$

$$DL = 1.515$$

$$BEC = 7.933$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	120.00	0.0002	P	16.6
2	☐	1.000	1.031	3613.81	0.0059	P	4.7
3	☐	500.000	520.256	1745646.88	2.8960	P	0.3
4	☐	1250.000	1294.826	4206263.44	7.2072	P	0.7
5	☐	2500.000	2559.406	8147114.05	14.2459	A	1.0
6	☐	5000.000	5098.228	16347353.92	28.3770	A	0.5
7	☐	10000.000	9929.419	32846120.62	55.2675	A	2.1
8	☐			34346.71	0.0581	P	1.1

$$y = 0.0056 * x + 1.9781E-004$$

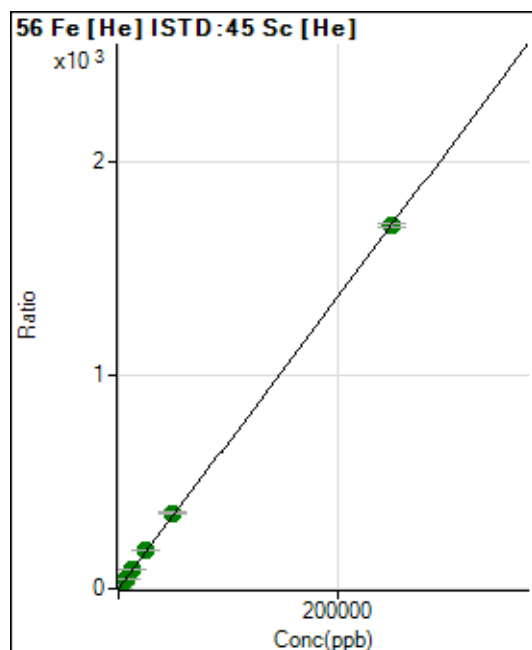
$$R = 0.9999$$

$$DL = 0.01769$$

$$BEC = 0.03554$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	7318.58	0.0121	P	1.3
2	☐	50.000	54.223	232444.30	0.3816	P	0.6
3	☐	2500.000	2706.192	11125694.92	18.4565	A	0.9
4	☐	6250.000	6708.284	26690882.54	45.7334	A	1.1
5	☐	12500.000	13419.956	52316242.84	91.4778	A	0.4
6	☐	25000.000	26558.990	104284645.85	181.0289	A	1.0
7	☐	50000.000	51649.851	209214599.12	352.0395	A	2.4
8	☐	250000.00	249454.61	1004277881.7	1,700.207	A	0.9

$$y = 0.0068 * x + 0.0121$$

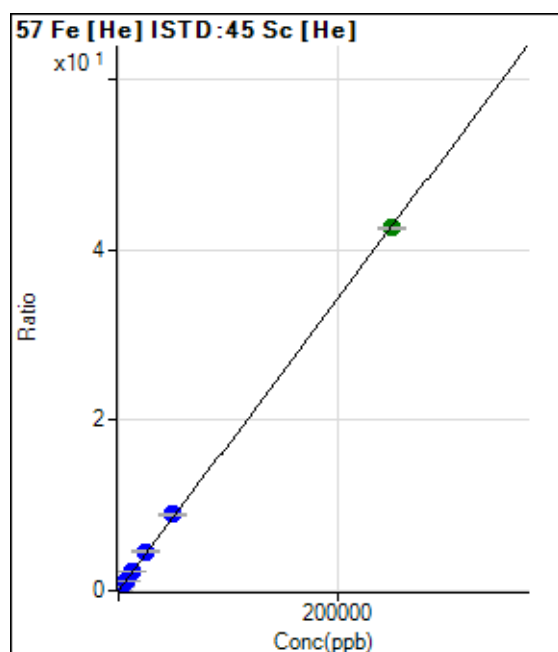
$$R = 1.0000$$

$$DL = 0.06955$$

$$BEC = 1.771$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	285.20	0.0005	P	2.6
2	☐	50.000	54.257	5927.21	0.0097	P	4.0
3	☐	2500.000	2750.089	283188.33	0.4698	P	0.3
4	☐	6250.000	6853.560	682889.26	1.1701	P	0.4
5	☐	12500.000	13606.044	1328223.56	2.3225	P	0.2
6	☐	25000.000	27055.503	2660186.46	4.6177	P	0.3
7	☐	50000.000	52576.940	5332855.85	8.9732	P	2.1
8	☐	250000.00	249206.16	25121558.90	42.5297	A	0.7

$$y = 1.7066\text{E-}004 * x + 4.7028\text{E-}004$$

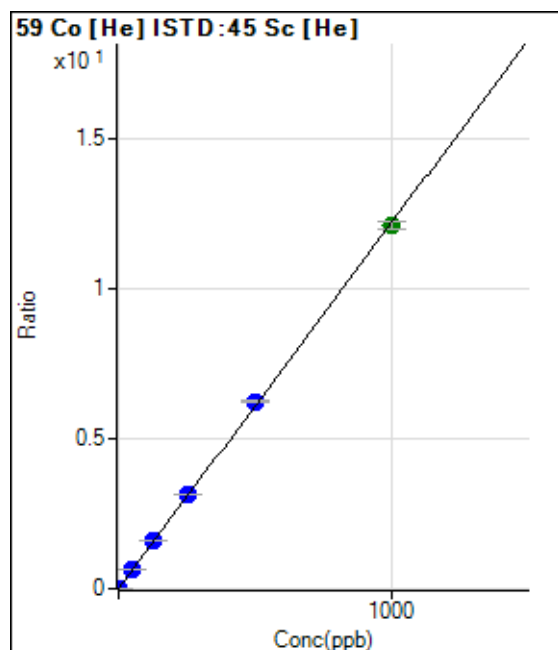
$$R = 0.9999$$

$$DL = 0.2178$$

$$BEC = 2.756$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	97.78	0.0002	P	10.7
2	☐	1.000	1.010	7592.02	0.0125	P	1.6
3	☐	50.000	52.227	383556.71	0.6363	P	0.2
4	☐	125.000	129.858	923217.96	1.5819	P	0.6
5	☐	250.000	258.504	1800818.15	3.1488	P	0.4
6	☐	500.000	510.973	3585420.33	6.2240	P	0.9
7	☐	1000.000	991.669	7178934.68	12.0791	A	1.9
8	☐			17965.56	0.0304	P	1.8

$$y = 0.0122 * x + 1.6120\text{E-}004$$

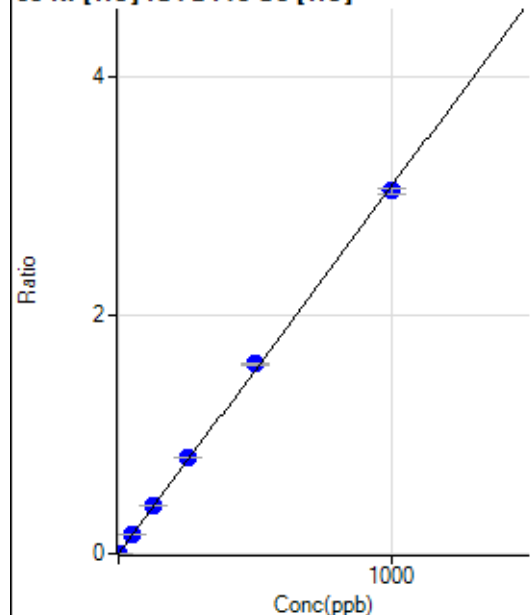
$$R = 0.9999$$

$$DL = 0.004254$$

$$BEC = 0.01323$$

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	32.22	0.0001	P	5.3
2	☐	1.000	1.088	2077.95	0.0034	P	8.1
3	☐	50.000	53.753	100033.45	0.1659	P	0.5
4	☐	125.000	133.267	240073.19	0.4114	P	0.3
5	☐	250.000	262.458	463274.40	0.8101	P	0.5
6	☐	500.000	515.814	917091.96	1.5920	P	0.7
7	☐	1000.000	987.757	1811861.14	3.0485	P	1.7
8	☐			4939.76	0.0084	P	1.8

$$y = 0.0031 * x + 5.3113E-005$$

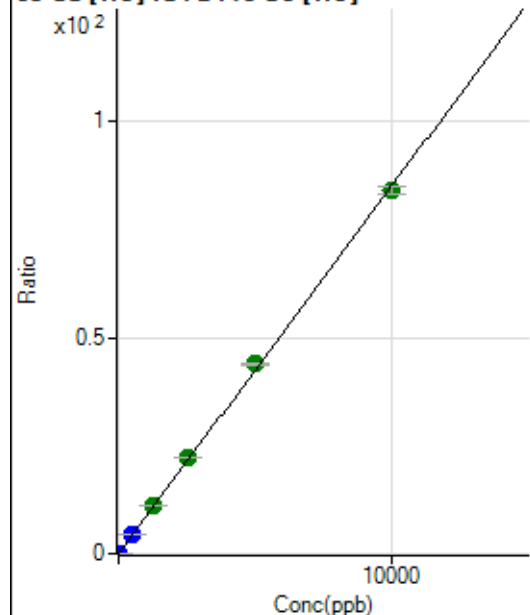
$$R = 0.9997$$

$$DL = 0.002754$$

$$BEC = 0.01721$$

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	970.04	0.0016	P	4.0
2	☐	2.000	1.901	10817.41	0.0178	P	1.8
3	☐	500.000	534.635	2740169.06	4.5458	P	0.3
4	☐	1250.000	1329.103	6594036.15	11.2985	A	0.5
5	☐	2500.000	2633.229	12800942.17	22.3832	A	0.3
6	☐	5000.000	5160.208	25267523.51	43.8616	A	1.0
7	☐	10000.000	9874.969	49883197.59	83.9355	A	2.2
8	☐			11094.29	0.0188	P	1.0

$$y = 0.0085 * x + 0.0016$$

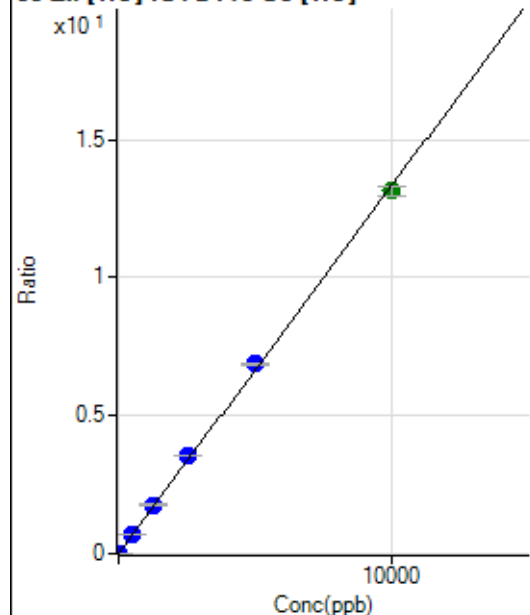
$$R = 0.9997$$

$$DL = 0.02239$$

$$BEC = 0.1882$$

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	607.80	0.0010	P	6.7
2	☐	2.000	2.216	2408.00	0.0040	P	2.6
3	☐	500.000	533.189	428605.99	0.7111	P	0.5
4	☐	1250.000	1332.086	1035898.07	1.7750	P	0.8
5	☐	2500.000	2646.399	2016086.03	3.5252	P	0.4
6	☐	5000.000	5169.662	3966496.92	6.8855	P	0.8
7	☐	10000.000	9866.649	7809283.77	13.1405	A	2.5
8	☐			12853.50	0.0218	P	1.4

$$y = 0.0013 * x + 0.0010$$

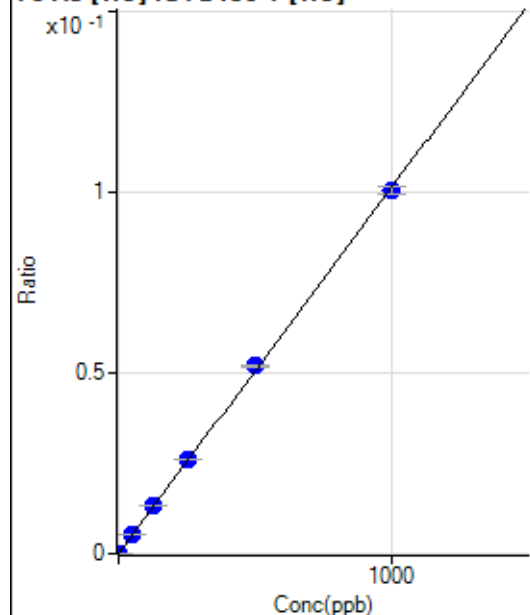
$$R = 0.9997$$

$$DL = 0.1502$$

$$BEC = 0.7524$$

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	6.79	0.0000	P	41.6
2	☐	1.000	1.059	509.89	0.0001	P	6.6
3	☐	50.000	52.577	24714.17	0.0053	P	0.8
4	☐	125.000	128.853	59336.71	0.0130	P	0.1
5	☐	250.000	256.623	117124.78	0.0259	P	0.5
6	☐	500.000	512.561	235987.75	0.0518	P	0.4
7	☐	1000.000	991.453	473803.45	0.1002	P	2.1
8	☐			182.10	0.0000	P	5.7

$$y = 1.0106E-004 * x + 1.4547E-006$$

$$R = 0.9999$$

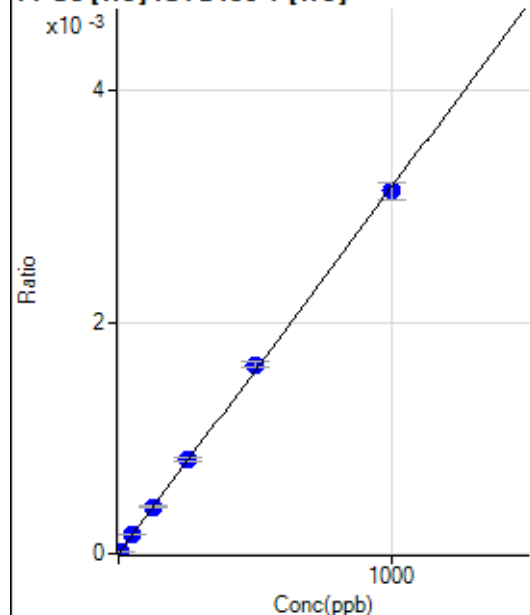
$$DL = 0.01796$$

$$BEC = 0.01439$$

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	0.00	0.0000	P	
2	☐	5.000	5.515	82.22	0.0000	P	35.6
3	☐	50.000	51.536	758.92	0.0002	P	3.3
4	☐	125.000	127.786	1843.47	0.0004	P	5.4
5	☐	250.000	258.154	3691.61	0.0008	P	3.0
6	☐	500.000	514.602	7423.09	0.0016	P	3.1
7	☐	1000.000	990.233	14820.99	0.0031	P	4.8
8	☐			3.33	0.0000	P	99.7

$$y = 3.1666\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9998$$

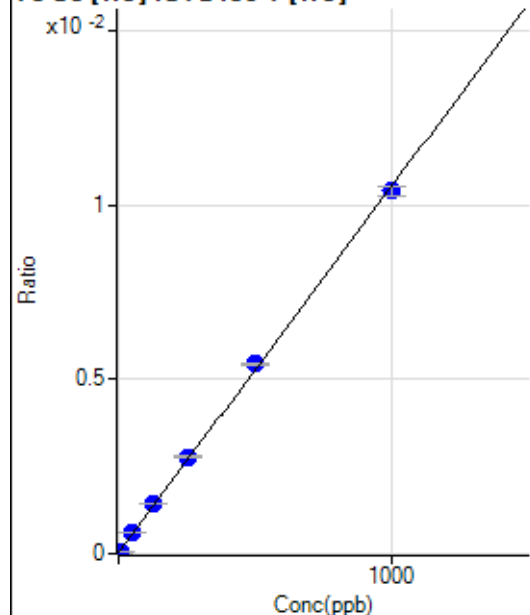
$$DL = 0$$

$$BEC = 0$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	132.10	0.0000	P	20.8
2	☐	5.000	4.983	379.64	0.0001	P	3.8
3	☐	50.000	53.603	2752.75	0.0006	P	1.0
4	☐	125.000	134.116	6555.20	0.0014	P	0.5
5	☐	250.000	261.712	12556.69	0.0028	P	1.0
6	☐	500.000	515.387	24820.55	0.0054	P	0.5
7	☐	1000.000	988.059	49263.31	0.0104	P	2.7
8	☐			148.15	0.0000	P	6.3

$$y = 1.0517\text{E-}005 * x + 2.8342\text{E-}005$$

$$R = 0.9997$$

$$DL = 1.681$$

$$BEC = 2.695$$

Weight: <None>

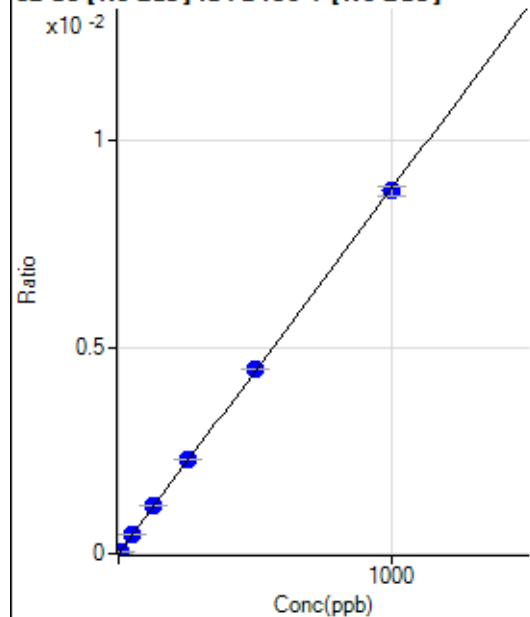
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			13231.43		P	2.1
2	☐			13292.58		P	2.3
3	☐			12308.32		P	2.6
4	☐			11721.70		P	0.9
5	☐			11463.21		P	5.6
6	☐			11933.01		P	0.8
7	☐			12077.55		P	2.9
8	☐			13779.12		P	2.7

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			36.70		P	31.5
2	☐			66.73		P	31.2
3	☐			56.72		P	36.7
4	☐			86.75		P	17.6
5	☐			56.72		P	44.4
6	☐			63.40		P	24.1
7	☐			56.72		P	53.9
8	☐			86.75		P	35.3

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	82.30	0.0000	P	21.9
2	☐	5.000	5.277	1036.46	0.0001	P	6.2
3	☐	50.000	53.518	9632.22	0.0005	P	1.2
4	☐	125.000	130.131	23258.64	0.0012	P	0.9
5	☐	250.000	258.726	45091.69	0.0023	P	0.4
6	☐	500.000	506.100	89313.62	0.0045	P	0.1
7	☐	1000.000	993.950	175873.49	0.0088	P	2.3
8	☐			123.01	0.0000	P	68.7

$$y = 8.8414\text{E-}006 * x + 4.0341\text{E-}006$$

$$R = 0.9999$$

$$DL = 0.2991$$

$$BEC = 0.4563$$

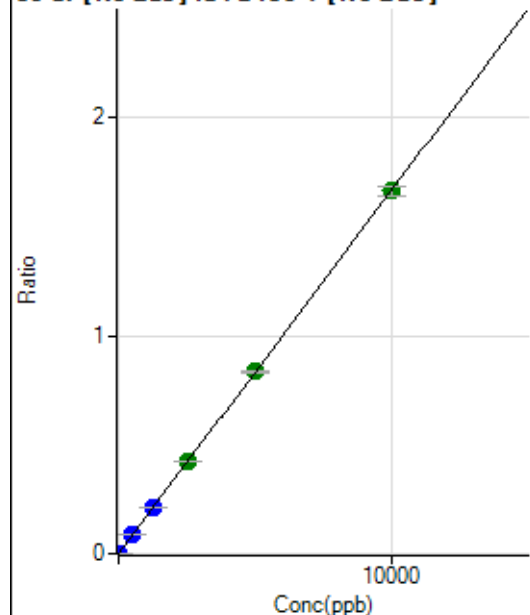
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐			711.14		P	6.7
2	☐			664.47		P	8.5
3	☐			675.58		P	6.6
4	☐			676.69		P	3.0
5	☐			686.69		P	1.8
6	☐			676.69		P	6.4
7	☐			710.03		P	8.3
8	☐			758.92		P	9.3

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1147.30	0.0001	P	4.3
2	☐	1.000	1.034	4673.12	0.0002	P	2.4
3	☐	500.000	513.318	1727729.40	0.0856	P	1.2
4	☐	1250.000	1265.650	4249508.08	0.2110	P	1.1
5	☐	2500.000	2532.316	8304881.70	0.4220	A	0.2
6	☐	5000.000	5005.498	16635328.67	0.8342	A	0.2
7	☐	10000.000	9986.550	33290845.19	1.6642	A	2.4
8	☐			13784.69	0.0007	P	1.7

$$y = 1.6664\text{E-}004 * x + 5.6243\text{E-}005$$

$$R = 1.0000$$

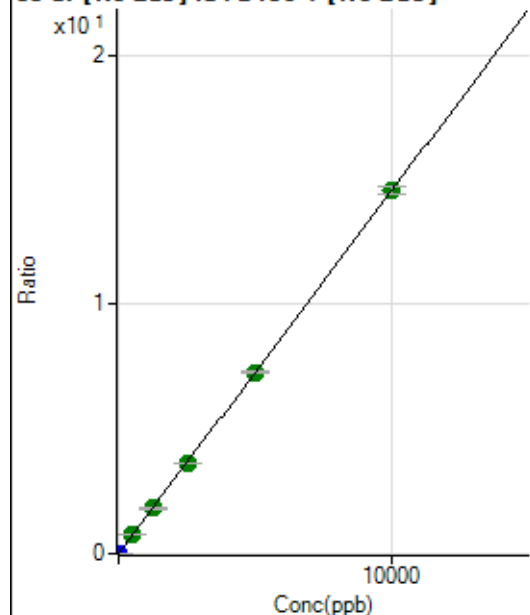
$$DL = 0.04305$$

$$BEC = 0.3375$$

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	205.56	0.0000	P	10.0
2	☐	1.000	1.069	32044.46	0.0016	P	1.0
3	☐	500.000	507.628	14920295.47	0.7392	A	0.4
4	☐	1250.000	1247.590	36593641.10	1.8167	A	1.3
5	☐	2500.000	2498.733	71596064.80	3.6385	A	0.2
6	☐	5000.000	5000.048	145190029.63	7.2807	A	0.5
7	☐	10000.000	10000.213	291294948.18	14.5615	A	2.2
8	☐			113686.17	0.0058	P	1.2

$$y = 0.0015 * x + 1.0081\text{E-}005$$

$$R = 1.0000$$

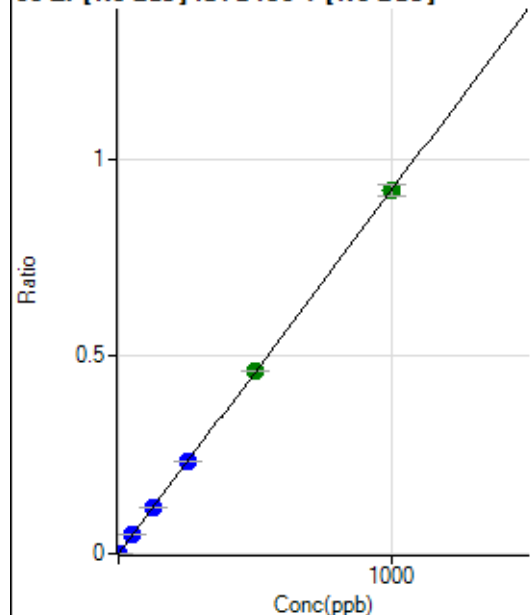
$$DL = 0.002084$$

$$BEC = 0.006923$$

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	1177.85	0.0001	P	11.1
2	☐	1.000	0.905	18209.19	0.0009	P	1.4
3	☐	50.000	51.164	951291.09	0.0471	P	0.2
4	☐	125.000	125.242	2322130.09	0.1153	P	0.3
5	☐	250.000	252.754	4576745.42	0.2326	P	0.5
6	☐	500.000	502.163	9214053.16	0.4620	A	0.5
7	☐	1000.000	998.142	18368130.79	0.9183	A	3.0
8	☐			5376.17	0.0003	P	4.4

$$y = 9.1998\text{E-}004 * x + 5.7782\text{E-}005$$

$$R = 1.0000$$

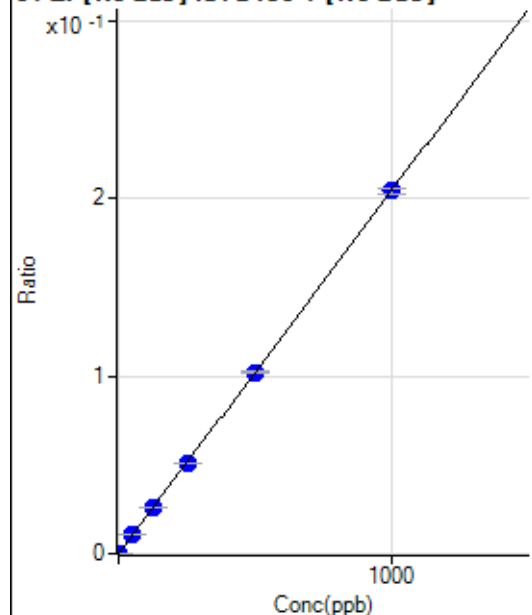
$$DL = 0.02093$$

$$BEC = 0.06281$$

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	155.56	0.0000	P	19.9
2	☐	1.000	0.878	3825.61	0.0002	P	5.5
3	☐	50.000	51.214	211458.43	0.0105	P	0.6
4	☐	125.000	125.173	515545.21	0.0256	P	0.5
5	☐	250.000	250.284	1006842.36	0.0512	P	0.8
6	☐	500.000	500.373	2039777.89	0.1023	P	0.5
7	☐	1000.000	999.661	4088034.03	0.2043	P	1.8
8	☐			1166.74	0.0001	P	5.3

$$y = 2.0441\text{E-}004 * x + 7.6356\text{E-}006$$

$$R = 1.0000$$

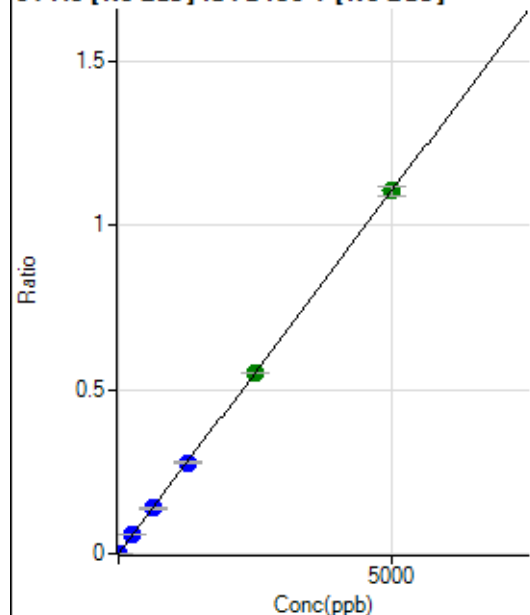
$$DL = 0.02229$$

$$BEC = 0.03736$$

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	344.46	0.0000	P	8.4
2	☐	5.000	4.742	21780.91	0.0011	P	2.6
3	☐	250.000	254.579	1136106.89	0.0563	P	1.0
4	☐	625.000	624.107	2778994.05	0.1380	P	1.1
5	☐	1250.000	1256.270	5464232.80	0.2777	P	0.8
6	☐	2500.000	2490.634	10978300.42	0.5505	A	0.8
7	☐	5000.000	5002.998	22120111.26	1.1058	A	2.5
8	☐			5940.27	0.0003	P	4.6

$$y = 2.2103\text{E-}004 * x + 1.6893\text{E-}005$$

$$R = 1.0000$$

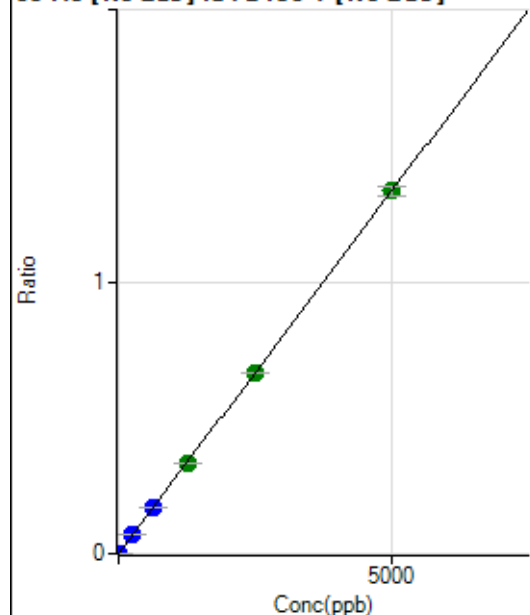
$$DL = 0.01925$$

$$BEC = 0.07643$$

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	25.00	0.0000	P	58.0
2	☐	5.000	4.896	26717.04	0.0013	P	4.3
3	☐	250.000	257.313	1384459.20	0.0686	P	0.5
4	☐	625.000	630.843	3387189.22	0.1682	P	0.7
5	☐	1250.000	1246.215	6536535.43	0.3322	A	1.1
6	☐	2500.000	2487.663	13223318.53	0.6631	A	0.5
7	☐	5000.000	5006.019	26691559.97	1.3344	A	2.6
8	☐			8516.61	0.0004	P	3.8

$$y = 2.6655\text{E-}004 * x + 1.2284\text{E-}006$$

$$R = 1.0000$$

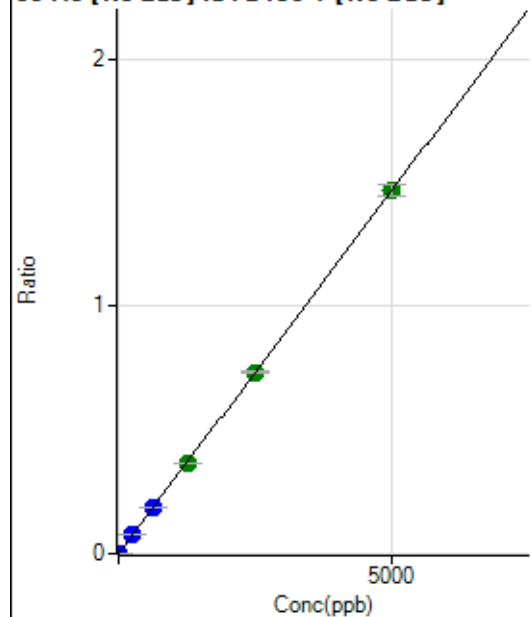
$$DL = 0.008025$$

$$BEC = 0.004608$$

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	122.23	0.0000	P	28.1
2	☐	5.000	4.996	30087.78	0.0015	P	2.3
3	☐	250.000	258.609	1531013.78	0.0759	P	0.6
4	☐	625.000	631.727	3731903.17	0.1853	P	1.6
5	☐	1250.000	1243.615	7176968.65	0.3647	A	0.8
6	☐	2500.000	2499.980	14621184.53	0.7332	A	0.4
7	☐	5000.000	5000.335	29332151.00	1.4665	A	3.0
8	☐			9811.95	0.0005	P	3.0

$$y = 2.9328\text{E-}004 * x + 5.9988\text{E-}006$$

$$R = 1.0000$$

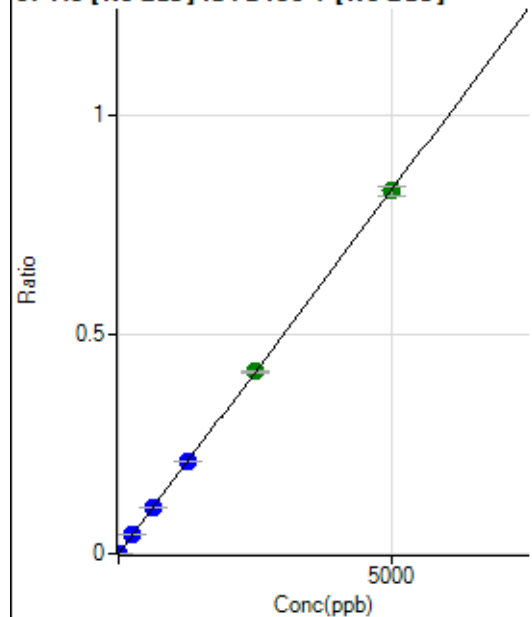
$$DL = 0.01724$$

$$BEC = 0.02045$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	16.66	0.0000	P	86.0
2	☐	5.000	4.872	16559.88	0.0008	P	2.9
3	☐	250.000	257.619	863430.55	0.0428	P	0.8
4	☐	625.000	630.921	2110203.39	0.1048	P	0.9
5	☐	1250.000	1267.447	4141171.75	0.2105	P	0.7
6	☐	2500.000	2507.003	8301241.07	0.4163	A	0.7
7	☐	5000.000	4991.016	16575945.68	0.8287	A	3.0
8	☐			4192.40	0.0002	P	5.7

$$y = 1.6604\text{E-}004 * x + 8.1402\text{E-}007$$

$$R = 1.0000$$

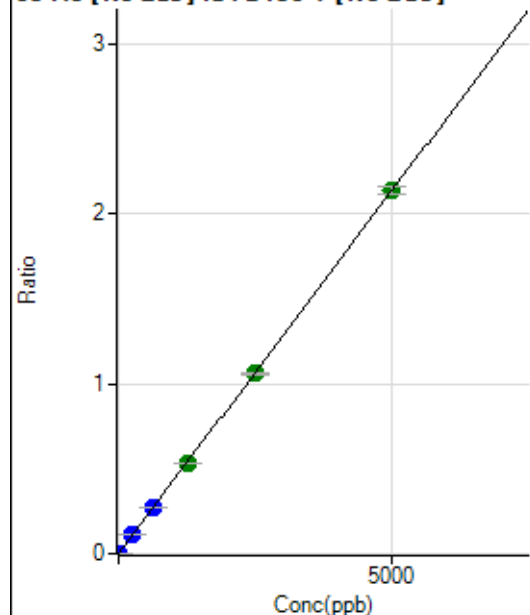
$$DL = 0.01265$$

$$BEC = 0.004902$$

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	77.78	0.0000	P	16.1
2	☐	5.000	4.996	43703.31	0.0021	P	2.1
3	☐	250.000	259.081	2233160.60	0.1106	P	0.4
4	☐	625.000	636.404	5474061.32	0.2718	P	0.8
5	☐	1250.000	1250.361	10506320.20	0.5339	A	1.1
6	☐	2500.000	2489.160	21196324.26	1.0629	A	1.0
7	☐	5000.000	5003.450	42740609.99	2.1365	A	2.1
8	☐			8978.06	0.0005	P	2.8

$$y = 4.2701\text{E-}004 * x + 3.8120\text{E-}006$$

$$R = 1.0000$$

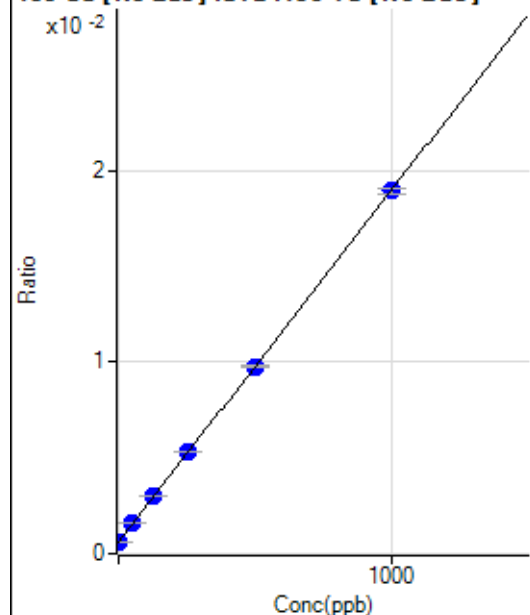
$$DL = 0.004311$$

$$BEC = 0.008927$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	10509.75	0.0006	P	5.4
2	☐	1.000	1.712	11010.14	0.0006	P	2.0
3	☐	50.000	55.007	27747.15	0.0016	P	0.6
4	☐	125.000	129.963	51805.97	0.0030	P	1.7
5	☐	250.000	255.537	90140.76	0.0053	P	0.5
6	☐	500.000	499.220	170269.37	0.0098	P	0.7
7	☐	1000.000	998.134	326457.29	0.0189	P	1.8
8	☐			10545.82	0.0006	P	0.9

$$y = 1.8375\text{E-}005 * x + 6.0684\text{E-}004$$

$$R = 1.0000$$

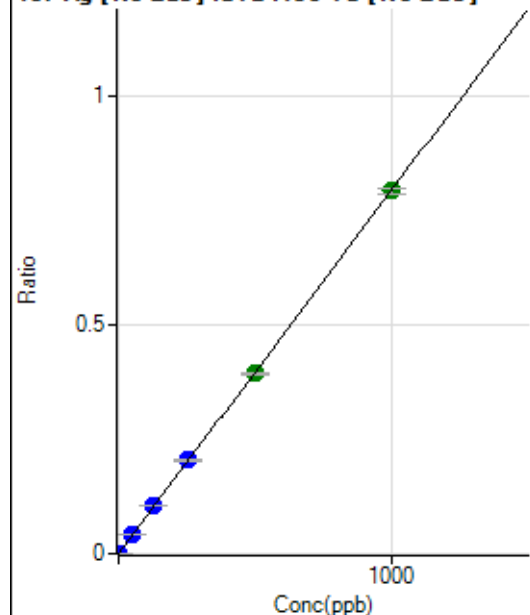
$$DL = 5.304$$

$$BEC = 33.02$$

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	111.11	0.0000	P	9.9
2	☐	1.000	1.008	13887.69	0.0008	P	2.5
3	☐	50.000	54.477	740857.38	0.0432	P	0.2
4	☐	125.000	131.311	1800706.31	0.1041	P	1.3
5	☐	250.000	258.192	3479204.33	0.2047	P	1.5
6	☐	500.000	497.170	6861436.70	0.3941	A	1.1
7	☐	1000.000	998.354	13635251.52	0.7914	A	1.9
8	☐			3464.39	0.0002	P	12.1

$$y = 7.9271\text{E-}004 * x + 6.4179\text{E-}006$$

$$R = 0.9999$$

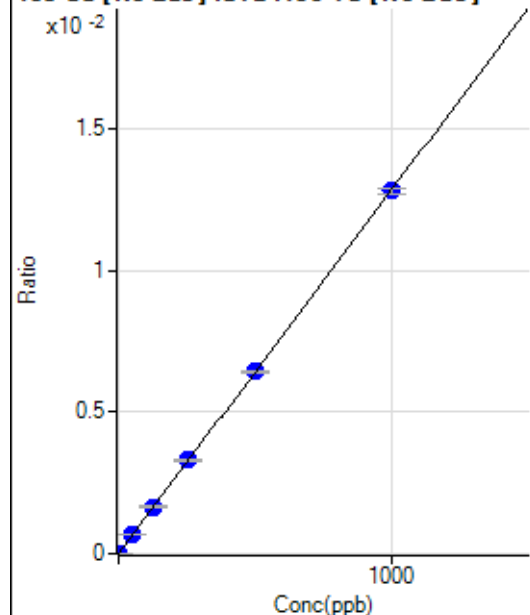
$$DL = 0.002396$$

$$BEC = 0.008096$$

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	52.78	0.0000	P	36.9
2	☐	1.000	1.031	280.56	0.0000	P	4.7
3	☐	50.000	54.268	11987.13	0.0007	P	1.7
4	☐	125.000	129.151	28695.68	0.0017	P	1.6
5	☐	250.000	256.559	55965.19	0.0033	P	1.8
6	☐	500.000	499.950	111648.95	0.0064	P	0.7
7	☐	1000.000	997.653	220427.92	0.0128	P	1.9
8	☐			144.45	0.0000	P	22.4

$$y = 1.2821\text{E-}005 * x + 3.0447\text{E-}006$$

$$R = 1.0000$$

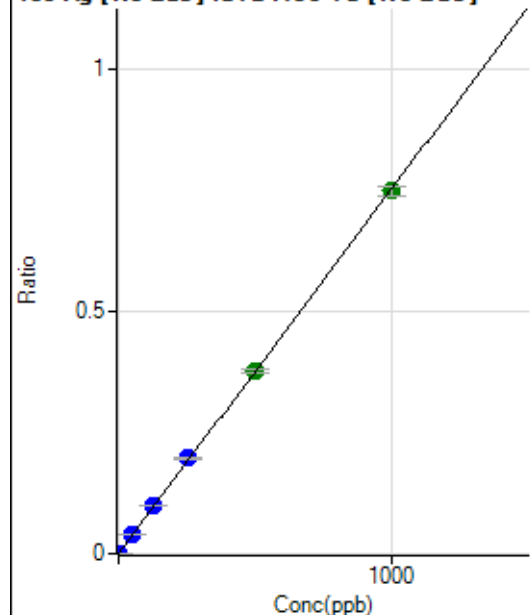
$$DL = 0.2627$$

$$BEC = 0.2375$$

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	27.78	0.0000	P	68.6
2	☐	1.000	0.987	12820.06	0.0007	P	6.3
3	☐	50.000	54.886	707294.94	0.0412	P	0.6
4	☐	125.000	131.757	1712256.90	0.0990	P	1.1
5	☐	250.000	262.651	3354075.99	0.1973	P	1.5
6	☐	500.000	500.959	6551888.17	0.3763	A	1.6
7	☐	1000.000	995.268	12880055.41	0.7477	A	2.9
8	☐			3294.92	0.0002	P	10.5

$$y = 7.5124\text{E-}004 * x + 1.5991\text{E-}006$$

$$R = 0.9999$$

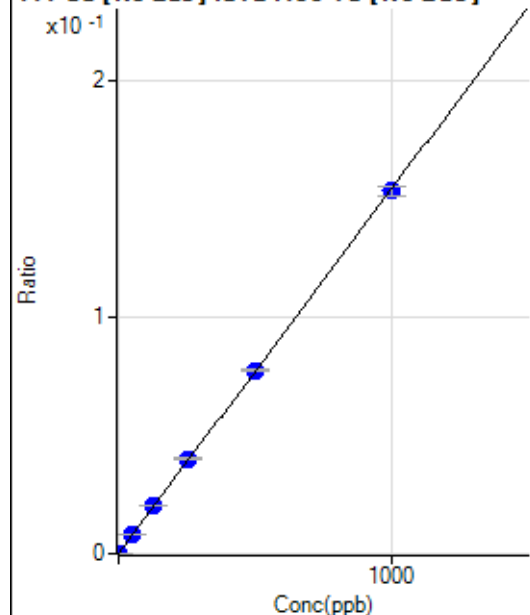
$$DL = 0.004383$$

$$BEC = 0.002129$$

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	1045.98	0.0001	P	6.1
2	☐	1.000	1.014	3738.29	0.0002	P	2.3
3	☐	50.000	53.970	143762.23	0.0084	P	0.4
4	☐	125.000	130.803	349895.96	0.0202	P	1.2
5	☐	250.000	260.349	683313.69	0.0402	P	1.6
6	☐	500.000	503.221	1351724.51	0.0776	P	0.9
7	☐	1000.000	994.879	2643418.88	0.1534	P	2.4
8	☐			1572.93	0.0001	P	4.2

$$y = 1.5417\text{E-}004 * x + 6.0392\text{E-}005$$

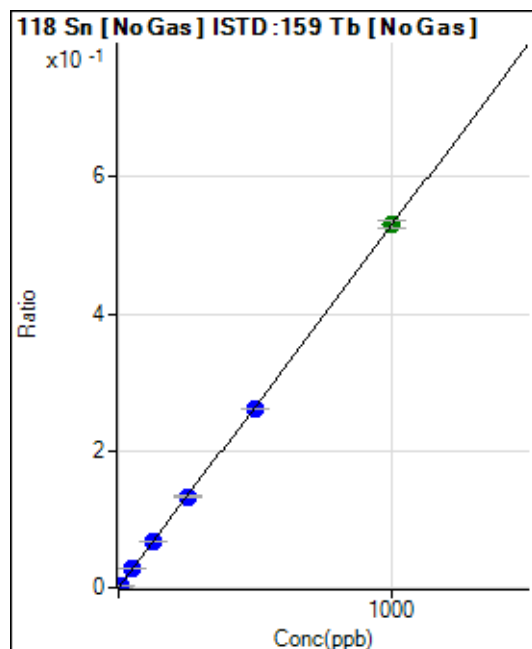
$$R = 0.9999$$

$$DL = 0.07161$$

$$BEC = 0.3917$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	972.28	0.0001	P	6.8
2	☐	5.000	4.847	45211.94	0.0026	P	0.6
3	☐	50.000	51.890	471930.58	0.0275	P	0.7
4	☐	125.000	126.614	1159878.14	0.0671	P	1.1
5	☐	250.000	251.930	2266966.17	0.1334	P	1.0
6	☐	500.000	495.450	4565138.47	0.2622	P	0.1
7	☐	1000.000	1001.497	9130475.64	0.5300	A	2.2
8	☐			3400.51	0.0002	P	5.1

$$y = 5.2913\text{E-}004 * x + 5.6135\text{E-}005$$

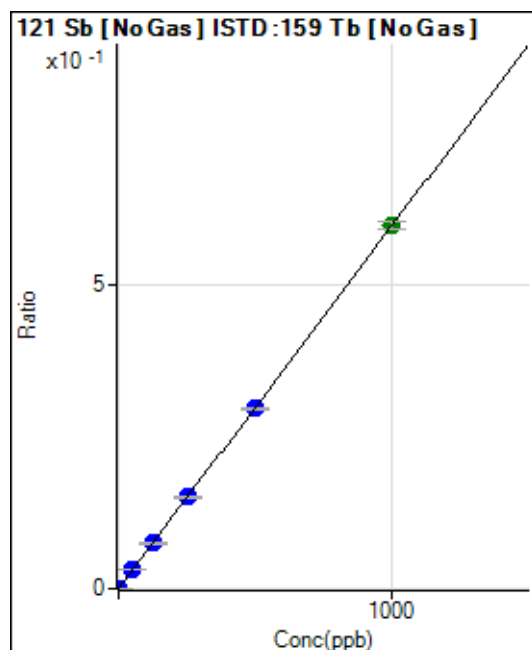
$$R = 1.0000$$

$$DL = 0.02178$$

$$BEC = 0.1061$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	122.22	0.0000	P	36.8
2	☐	2.000	1.919	19833.90	0.0011	P	0.6
3	☐	50.000	51.356	524565.99	0.0306	P	0.5
4	☐	125.000	125.427	1291799.77	0.0747	P	1.3
5	☐	250.000	252.428	2554704.38	0.1503	P	1.0
6	☐	500.000	496.245	5143512.01	0.2954	P	0.9
7	☐	1000.000	1001.149	10268724.71	0.5960	A	2.0
8	☐			5873.59	0.0004	P	2.6

$$y = 5.9534\text{E-}004 * x + 7.0418\text{E-}006$$

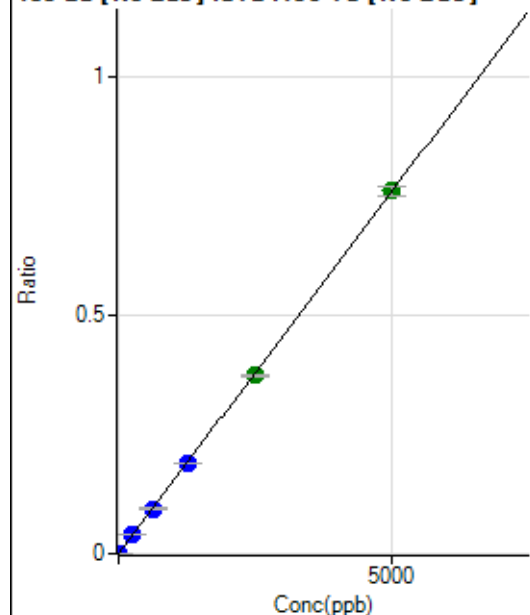
$$R = 1.0000$$

$$DL = 0.01307$$

$$BEC = 0.01183$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	25.00	0.0000	P	68.1
2	☐	10.000	9.626	25192.75	0.0015	P	3.2
3	☐	250.000	256.431	666801.56	0.0389	P	0.9
4	☐	625.000	621.299	1629164.52	0.0942	P	1.5
5	☐	1250.000	1250.934	3223370.60	0.1896	P	1.6
6	☐	2500.000	2467.158	6511002.01	0.3740	A	1.2
7	☐	5000.000	5016.329	13099416.96	0.7604	A	2.7
8	☐			5012.15	0.0003	P	2.4

$$y = 1.5159\text{E-}004 * x + 1.4539\text{E-}006$$

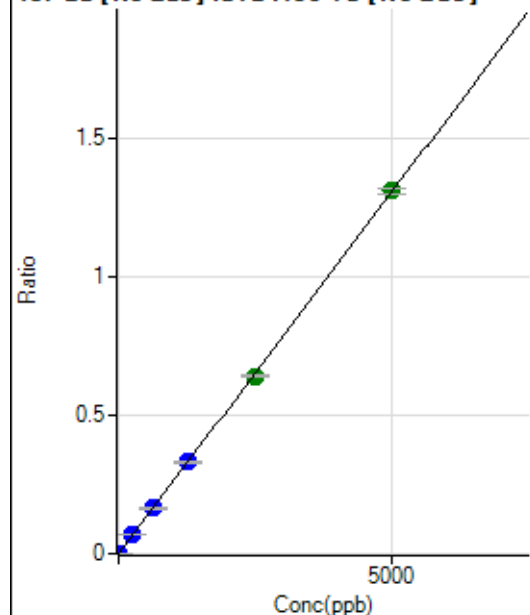
$$R = 1.0000$$

$$DL = 0.01959$$

$$BEC = 0.009591$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	30.56	0.0000	P	58.6
2	☐	10.000	9.900	44546.76	0.0026	P	0.6
3	☐	250.000	256.870	1148569.85	0.0670	P	0.8
4	☐	625.000	627.839	2830986.78	0.1637	P	1.5
5	☐	1250.000	1269.337	5624499.08	0.3309	P	1.5
6	☐	2500.000	2450.097	11118938.27	0.6387	A	0.9
7	☐	5000.000	5019.419	22544009.18	1.3084	A	1.5
8	☐			8625.08	0.0005	P	2.9

$$y = 2.6067\text{E-}004 * x + 1.7746\text{E-}006$$

$$R = 0.9999$$

$$DL = 0.01197$$

$$BEC = 0.006808$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

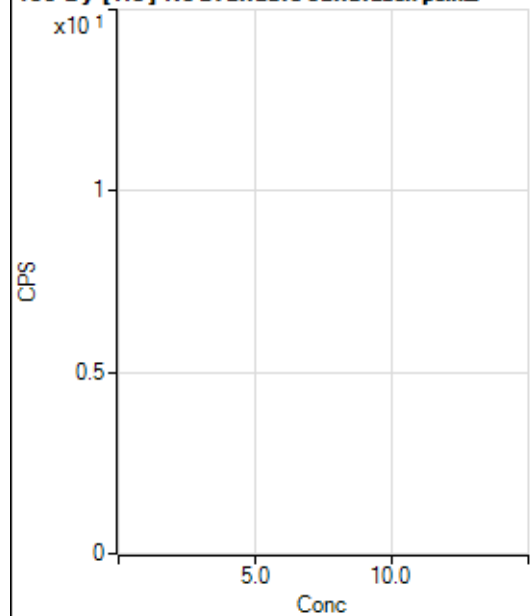
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			4.45		P	86.6
3	☐			73.33		P	9.1
4	☐			200.01		P	10.0
5	☐			395.57		P	11.2
6	☐			677.81		P	6.5
7	☐			1257.86		P	1.1
8	☐			55.56		P	13.9

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			2.22		P	86.6
3	☐			14.45		P	48.0
4	☐			33.33		P	36.1
5	☐			72.22		P	9.6
6	☐			135.56		P	7.5
7	☐			258.89		P	11.7
8	☐			27.78		P	25.0

156 Dy [No Gas] No available calibration points

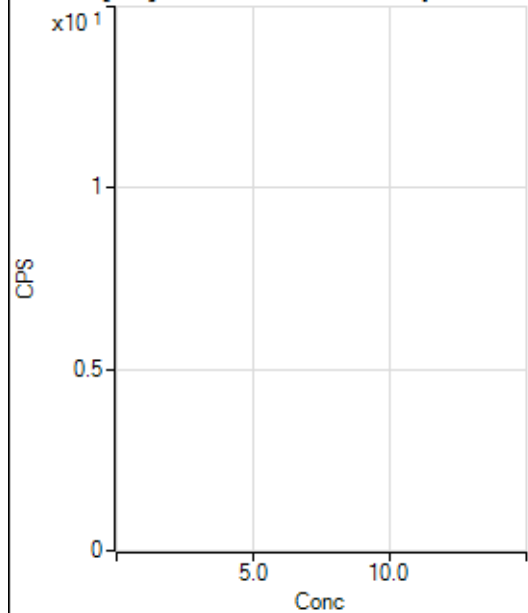
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.33		P	100.
2	☐			13.89		P	34.7
3	☐			61.11		P	56.8
4	☐			147.23		P	29.0
5	☐			216.67		P	17.6
6	☐			338.90		P	11.4
7	☐			816.71		P	16.2
8	☐			1872.40		P	5.6

156 Dy [He] No available calibration points

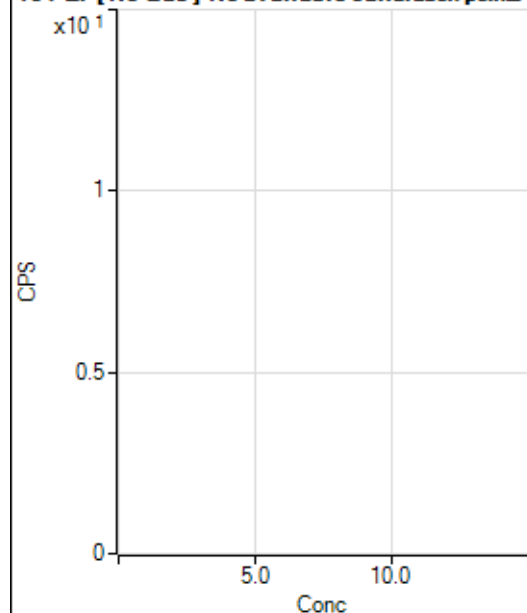
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			12.22		P	56.8
2	☐			2.22		P	173.
3	☐			38.89		P	26.2
4	☐			78.89		P	2.4
5	☐			143.33		P	12.9
6	☐			327.78		P	12.0
7	☐			606.69		P	6.7
8	☐			1338.97		P	5.5

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

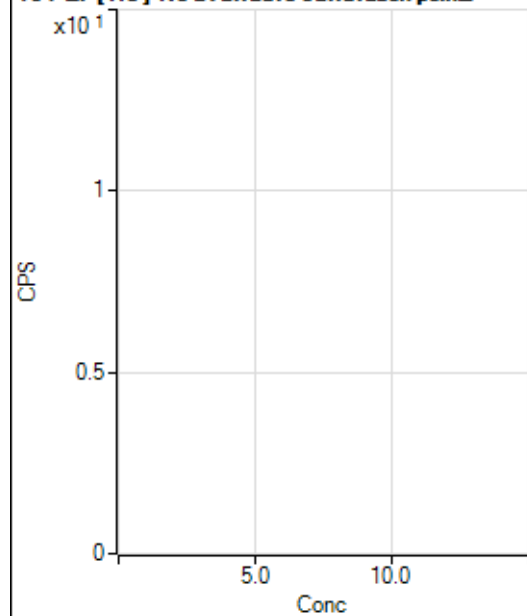
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			113.89		P	33.0
2	☐			147.23		P	25.5
3	☐			152.78		P	51.6
4	☐			186.12		P	17.0
5	☐			241.67		P	18.2
6	☐			419.46		P	1.1
7	☐			686.15		P	18.8
8	☐			2341.93		P	5.0

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			356.67		P	7.7
2	☐			314.45		P	3.4
3	☐			323.34		P	3.1
4	☐			373.34		P	10.1
5	☐			387.79		P	5.9
6	☐			514.46		P	9.4
7	☐			715.58		P	8.6
8	☐			1856.82		P	0.7

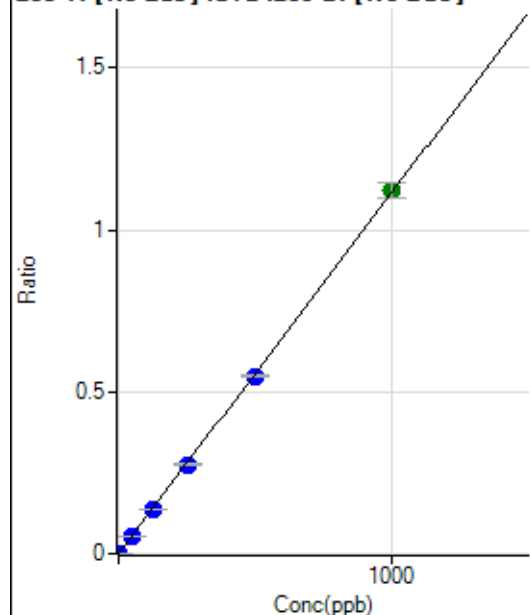
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			127.78		P	10.0
2	☐			113.89		P	18.4
3	☐			127.78		P	10.0
4	☐			147.22		P	14.2
5	☐			122.23		P	15.7
6	☐			161.12		P	18.2
7	☐			272.24		P	21.7
8	☐			452.80		P	13.9

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			62.22		P	25.3
2	☐			56.67		P	25.6
3	☐			71.11		P	21.1
4	☐			92.22		P	11.6
5	☐			91.11		P	10.6
6	☐			127.78		P	5.4
7	☐			193.34		P	16.4
8	☐			263.34		P	9.9

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	311.12	0.0000	P	25.9
2	☐	1.000	0.934	12336.56	0.0011	P	1.7
3	☐	50.000	49.596	633255.47	0.0553	P	1.6
4	☐	125.000	121.237	1558163.40	0.1352	P	0.6
5	☐	250.000	246.525	3124730.47	0.2748	P	1.7
6	☐	500.000	491.955	6261669.67	0.5484	P	1.3
7	☐	1000.000	1005.382	12518065.39	1.1208	A	4.1
8	☐			3625.59	0.0004	P	16.5

$$y = 0.0011 * x + 2.6864E-005$$

$$R = 0.9999$$

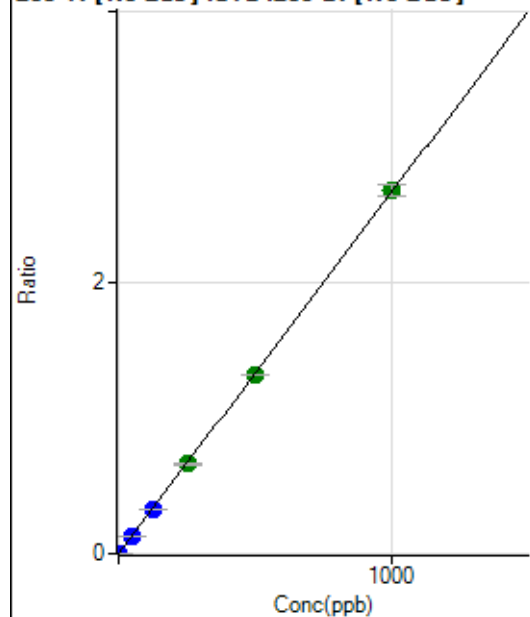
$$DL = 0.01874$$

$$BEC = 0.0241$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	750.04	0.0001	P	18.1
2	☐	1.000	0.908	28750.97	0.0025	P	1.3
3	☐	50.000	49.108	1501823.14	0.1312	P	1.3
4	☐	125.000	121.538	3741041.71	0.3246	P	1.2
5	☐	250.000	248.279	7537764.49	0.6630	A	1.1
6	☐	500.000	493.744	15053288.53	1.3184	A	0.3
7	☐	1000.000	1004.036	29947311.09	2.6809	A	3.2
8	☐			8255.58	0.0008	P	14.3

$$y = 0.0027 * x + 6.4746E-005$$

$$R = 1.0000$$

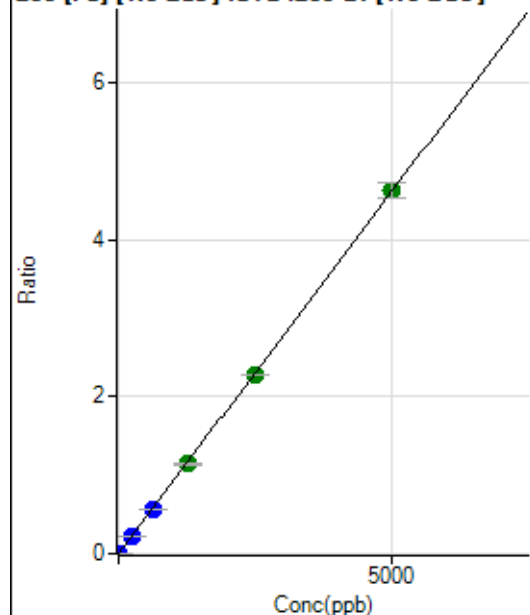
$$DL = 0.01316$$

$$BEC = 0.02425$$

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	987.09	0.0001	P	8.2
2	☐	1.000	0.916	10726.67	0.0009	P	3.1
3	☐	250.000	243.067	2564281.37	0.2240	P	1.3
4	☐	625.000	601.725	6389739.61	0.5544	P	1.1
5	☐	1250.000	1245.635	13046116.26	1.1475	A	1.8
6	☐	2500.000	2477.222	26055391.79	2.2820	A	0.6
7	☐	5000.000	5015.736	51604109.49	4.6204	A	4.2
8	☐			22111.21	0.0022	P	1.3

$$y = 9.2116\text{E-}004 * x + 8.5140\text{E-}005$$

$$R = 1.0000$$

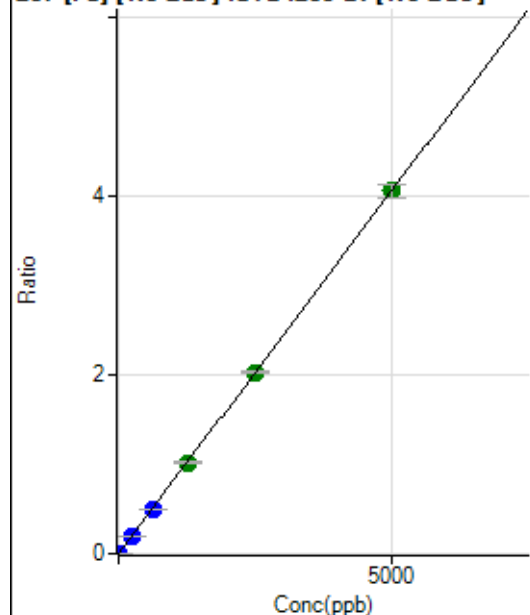
$$DL = 0.02267$$

$$BEC = 0.09243$$

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	855.60	0.0001	P	4.6
2	☐	1.000	0.924	9520.21	0.0008	P	2.9
3	☐	250.000	242.979	2260857.43	0.1975	P	1.1
4	☐	625.000	601.666	5634979.99	0.4889	P	1.5
5	☐	1250.000	1257.909	11620780.59	1.0221	A	0.5
6	☐	2500.000	2498.432	23176723.90	2.0299	A	0.9
7	☐	5000.000	5002.075	45395568.61	4.0640	A	3.4
8	☐			19677.73	0.0020	P	0.9

$$y = 8.1245\text{E-}004 * x + 7.3801\text{E-}005$$

$$R = 1.0000$$

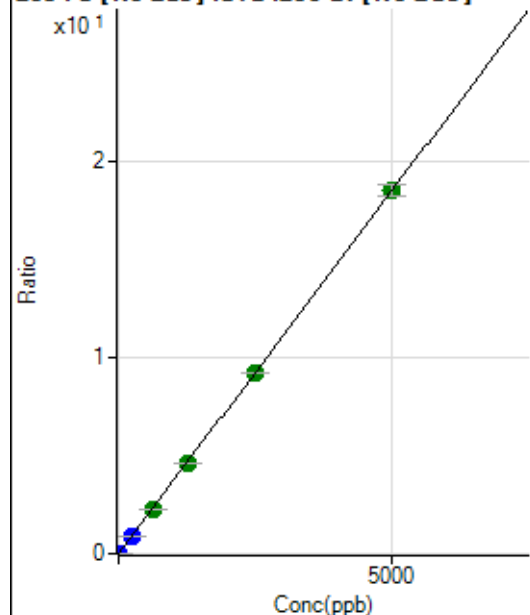
$$DL = 0.01256$$

$$BEC = 0.09084$$

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	4074.41	0.0004	P	2.6
2	☐	1.000	0.924	43502.60	0.0038	P	1.6
3	☐	250.000	244.577	10359795.92	0.9049	P	0.8
4	☐	625.000	611.715	26079654.99	2.2627	A	1.4
5	☐	1250.000	1251.329	52621520.39	4.6282	A	0.9
6	☐	2500.000	2490.184	105160072.49	9.2099	A	0.6
7	☐	5000.000	5006.508	206833809.25	18.5162	A	3.3
8	☐			89117.42	0.0090	P	0.4

$$y = 0.0037 * x + 3.5144E-004$$

$$R = 1.0000$$

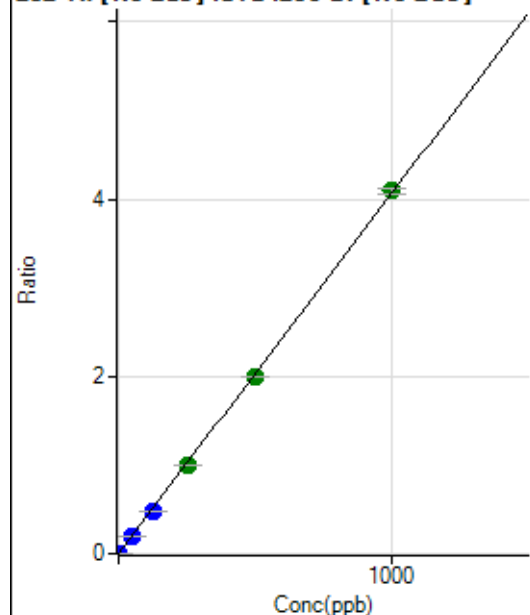
$$DL = 0.007492$$

$$BEC = 0.09503$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	257.41	0.0000	P	19.9
2	☐	1.000	0.000	250.00	0.0000	P	6.2
3	☐	50.000	45.859	2133468.68	0.1863	P	0.7
4	☐	125.000	116.217	5442544.91	0.4722	P	2.1
5	☐	250.000	244.762	11307298.75	0.9945	A	0.6
6	☐	500.000	490.669	22764305.14	1.9936	A	0.7
7	☐	1000.000	1007.281	45726845.93	4.0926	A	1.9
8	☐			4356.36	0.0004	P	11.5

$$y = 0.0041 * x + 2.2203E-005$$

$$R = 0.9999$$

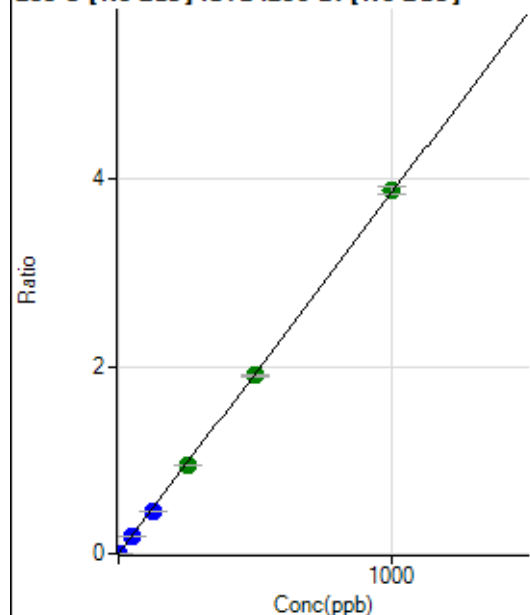
$$DL = 0.003254$$

$$BEC = 0.005465$$

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	58.33	0.0000	P	24.7
2	☐	1.000	0.881	39254.02	0.0034	P	1.0
3	☐	50.000	46.991	2073474.83	0.1811	P	1.1
4	☐	125.000	118.762	5275497.25	0.4577	P	1.7
5	☐	250.000	245.403	10753298.94	0.9458	A	1.3
6	☐	500.000	493.162	21700670.45	1.9007	A	2.0
7	☐	1000.000	1005.499	43296114.51	3.8752	A	2.1
8	☐			4461.99	0.0005	P	4.0

$$y = 0.0039 * x + 5.0314E-006$$

$$R = 0.9999$$

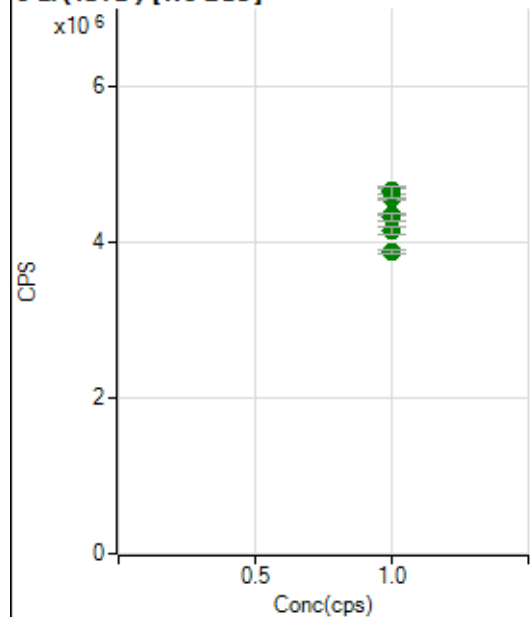
$$DL = 0.0009655$$

$$BEC = 0.001306$$

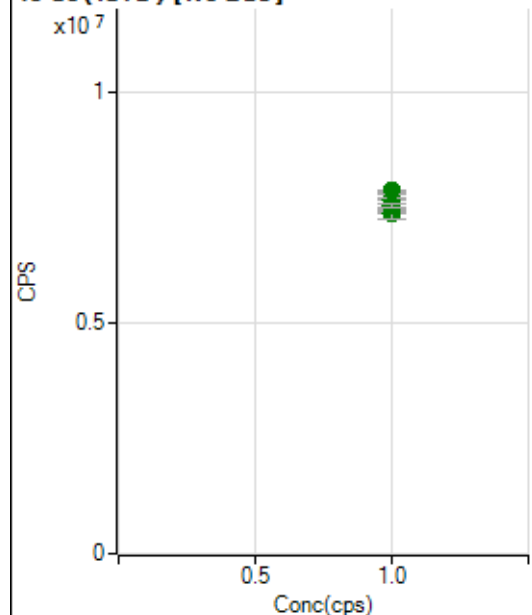
Weight: <None>

Min Conc: 0

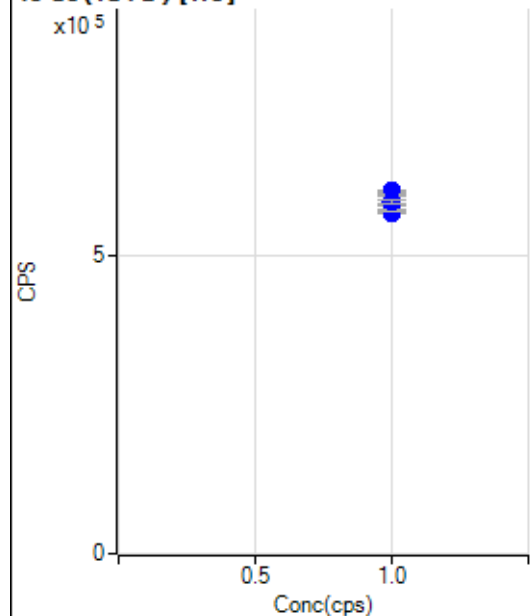
6 Li (ISTD) [No Gas]



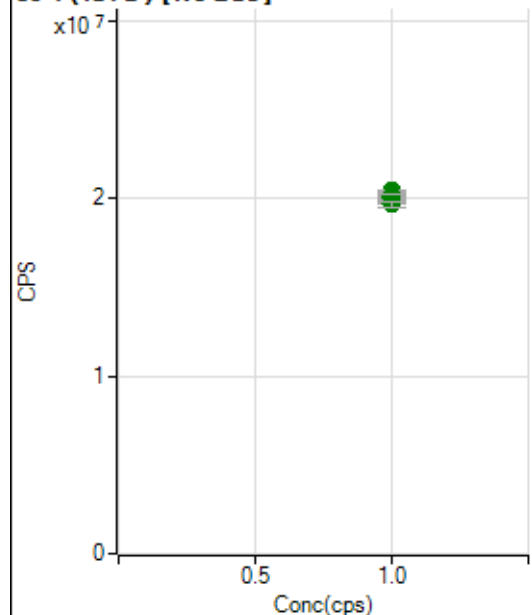
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4566253.75		A	0.1
2	☐	1.000		4651477.85		A	1.6
3	☐	1.000		4556599.90		A	0.5
4	☐	1.000		4631202.81		A	3.2
5	☐	1.000		4339630.49		A	0.3
6	☐	1.000		4319134.17		A	2.1
7	☐	1.000		4136685.01		A	2.1
8	☐	1.000		3873705.12		A	1.1

45 Sc (ISTD) [No Gas]

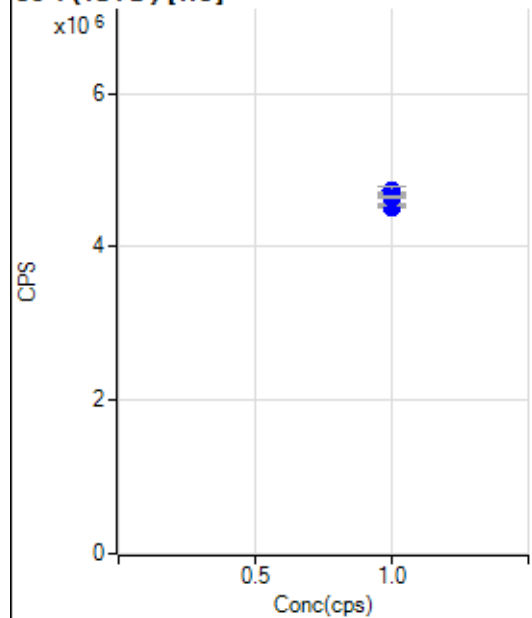
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7856991.06		A	0.6
2	☐	1.000		7779334.82		A	0.3
3	☐	1.000		7677261.48		A	0.8
4	☐	1.000		7650943.22		A	1.5
5	☐	1.000		7358447.18		A	0.2
6	☐	1.000		7379654.20		A	0.7
7	☐	1.000		7357484.68		A	2.6
8	☐	1.000		7519860.86		A	1.1

45 Sc (ISTD) [He]

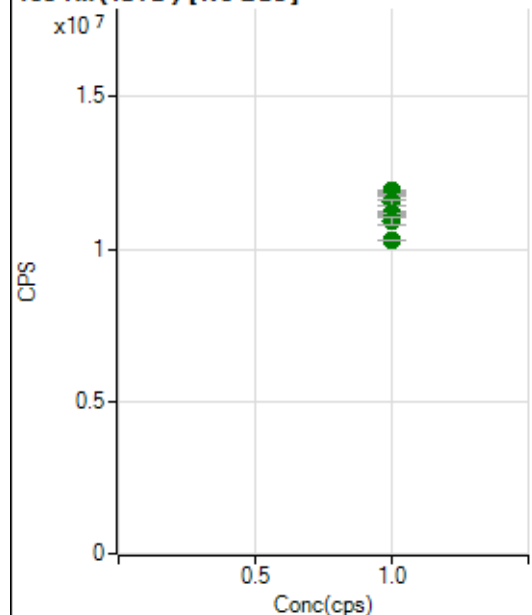
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		606486.00		P	0.7
2	☐	1.000		609083.61		P	0.6
3	☐	1.000		602786.22		P	0.7
4	☐	1.000		583622.26		P	0.2
5	☐	1.000		571904.33		P	0.3
6	☐	1.000		576094.76		P	1.0
7	☐	1.000		594464.56		P	1.8
8	☐	1.000		590701.71		P	0.7

89 Y (ISTD) [No Gas]

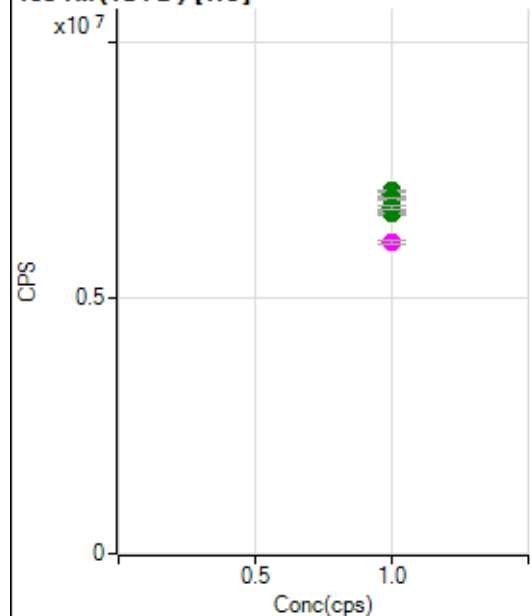
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		20401664.70		A	1.2
2	☐	1.000		20450304.42		A	0.6
3	☐	1.000		20185337.06		A	0.7
4	☐	1.000		20144033.31		A	0.8
5	☐	1.000		19677513.46		A	0.0
6	☐	1.000		19941937.20		A	0.3
7	☐	1.000		20012003.31		A	2.6
8	☐	1.000		19697325.81		A	1.5

89 Y (ISTD) [He]

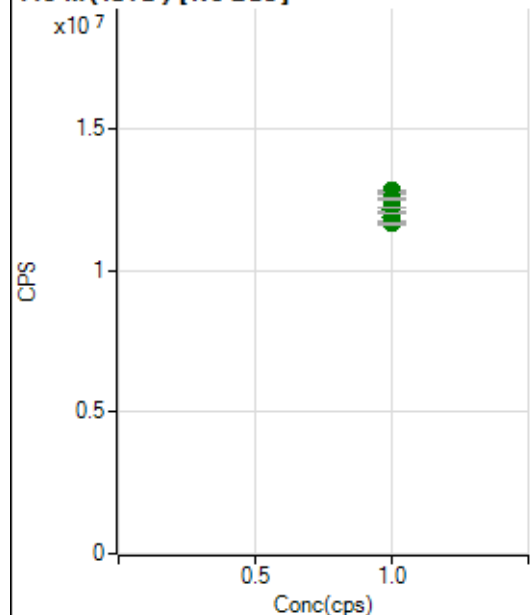
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4664096.74		P	0.5
2	☐	1.000		4701183.92		P	0.6
3	☐	1.000		4649674.37		P	0.8
4	☐	1.000		4556074.52		P	0.2
5	☐	1.000		4515926.25		P	0.6
6	☐	1.000		4555606.63		P	0.4
7	☐	1.000		4730080.21		P	2.3
8	☐	1.000		4650005.10		P	0.7

103 Rh (ISTD) [No Gas]

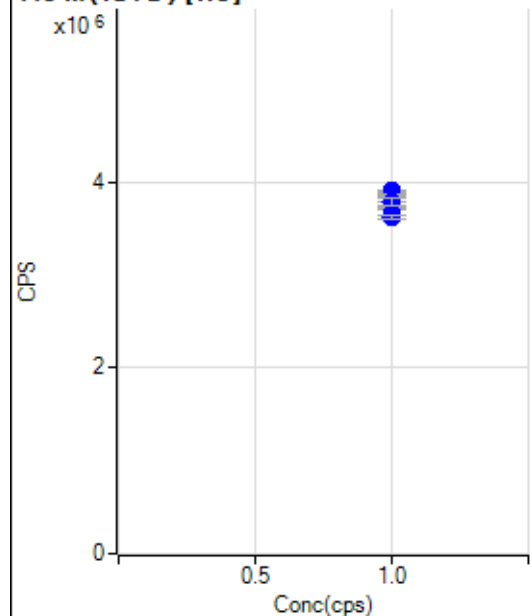
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		11913393.85		A	0.7
2	☐	1.000		11842500.52		A	0.4
3	☐	1.000		11764583.02		A	0.5
4	☐	1.000		11536299.41		A	1.9
5	☐	1.000		11151443.86		A	1.0
6	☐	1.000		11175486.50		A	0.3
7	☐	1.000		10923645.39		A	2.7
8	☐	1.000		10281527.69		A	0.2

103 Rh (ISTD) [He]

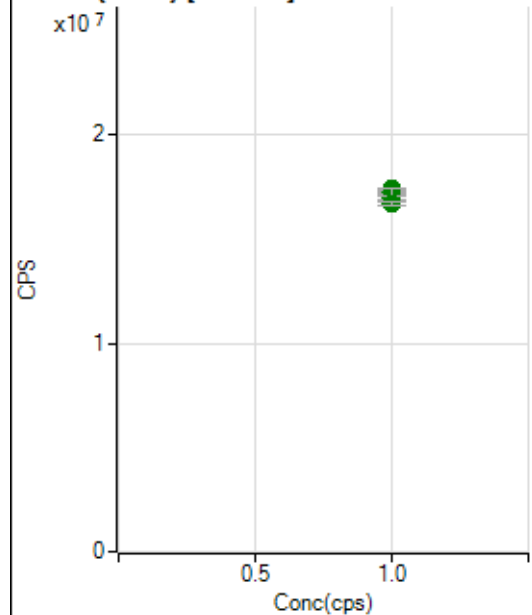
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		7023414.27		A	1.1
2	☐	1.000		7083891.35		A	0.6
3	☐	1.000		6931913.85		A	0.8
4	☐	1.000		6717078.31		A	0.4
5	☐	1.000		6648893.79		A	1.0
6	☐	1.000		6636271.71		A	0.2
7	☐	1.000		6759514.14		A	1.5
8	☐	1.000		6072237.83		M	1.1

115 In (ISTD) [No Gas]

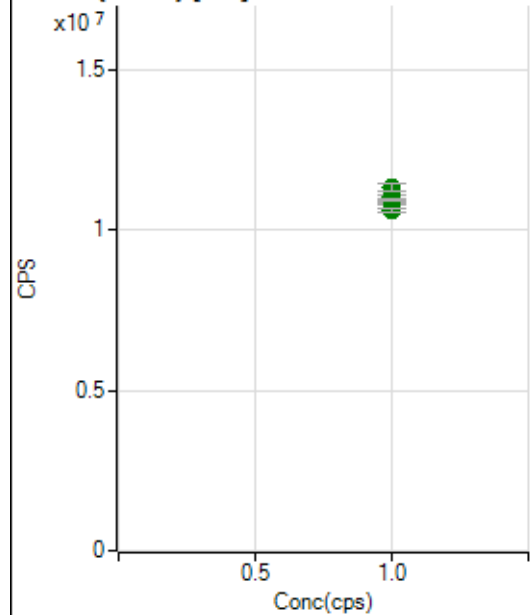
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		12802108.36		A	0.3
2	☐	1.000		12720616.92		A	0.1
3	☐	1.000		12552915.03		A	0.2
4	☐	1.000		12514750.93		A	1.0
5	☐	1.000		12047947.13		A	0.6
6	☐	1.000		12149326.52		A	0.9
7	☐	1.000		11881285.61		A	2.7
8	☐	1.000		11651193.19		A	0.3

115 In (ISTD) [He]

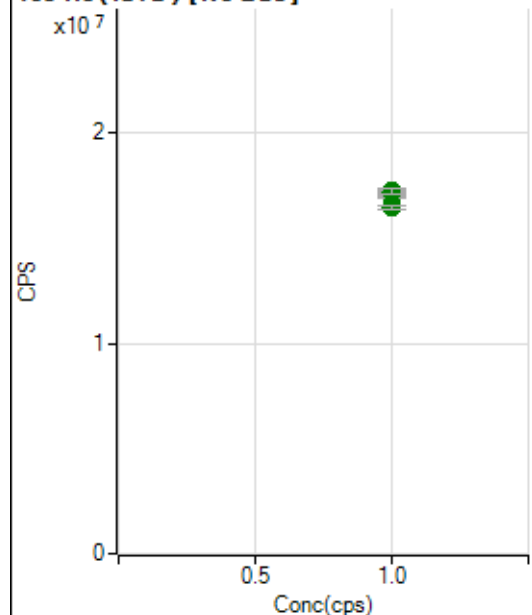
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3873767.24		P	0.5
2	☐	1.000		3901944.03		P	0.7
3	☐	1.000		3861348.66		P	0.3
4	☐	1.000		3777439.05		P	0.1
5	☐	1.000		3708719.44		P	0.4
6	☐	1.000		3725531.74		P	0.3
7	☐	1.000		3788032.61		P	2.3
8	☐	1.000		3613311.01		P	0.9

159 Tb (ISTD) [No Gas]

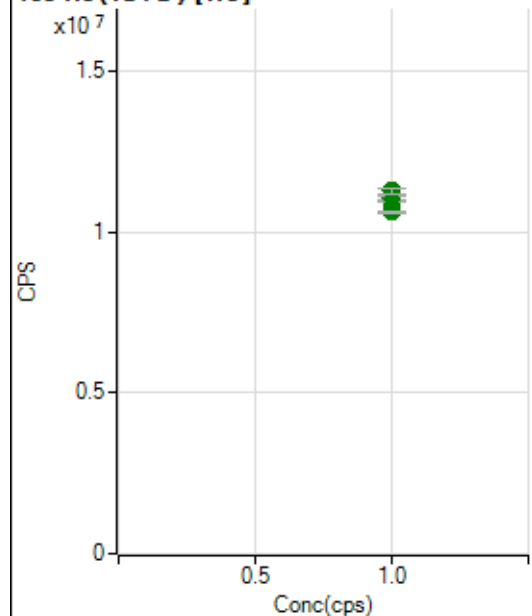
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		17328247.80		A	1.8
2	☐	1.000		17250141.82		A	0.5
3	☐	1.000		17153264.88		A	0.1
4	☐	1.000		17299850.57		A	1.1
5	☐	1.000		16999862.94		A	0.9
6	☐	1.000		17410071.83		A	0.5
7	☐	1.000		17233962.24		A	2.4
8	☐	1.000		16706328.36		A	0.9

159 Tb (ISTD) [He]

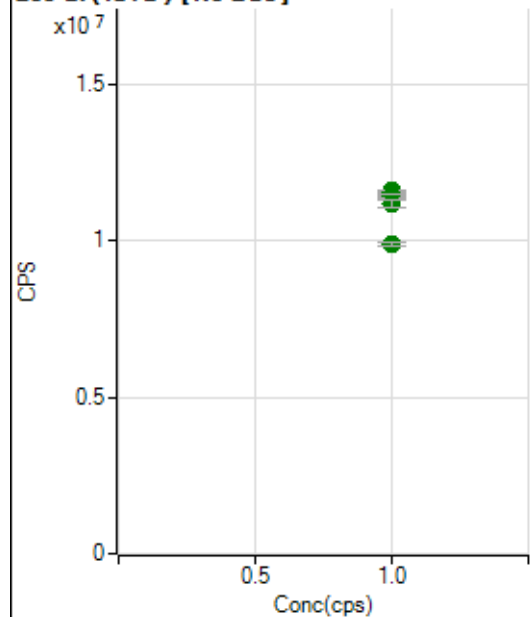
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10877465.74		A	1.1
2	☐	1.000		11017072.75		A	1.1
3	☐	1.000		10903246.71		A	1.5
4	☐	1.000		10877634.84		A	0.3
5	☐	1.000		10889489.42		A	0.5
6	☐	1.000		10948317.48		A	0.3
7	☐	1.000		11310425.94		A	2.0
8	☐	1.000		10624783.66		A	0.8

165 Ho (ISTD) [No Gas]

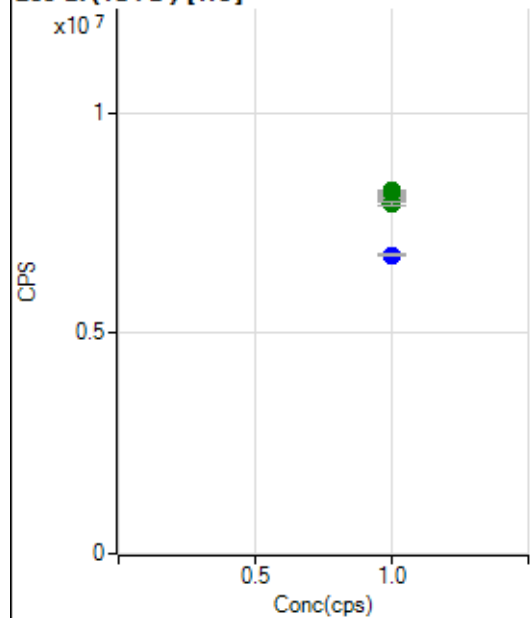
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		17091796.69		A	0.8
2	☐	1.000		16981167.66		A	0.3
3	☐	1.000		16934310.72		A	0.5
4	☐	1.000		16994715.30		A	1.0
5	☐	1.000		16971299.33		A	0.2
6	☐	1.000		17269190.58		A	0.3
7	☐	1.000		17252707.24		A	1.6
8	☐	1.000		16504649.75		A	1.3

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11001104.63		A	0.4
2	☐	1.000		11033035.25		A	1.2
3	☐	1.000		10934364.98		A	0.2
4	☐	1.000		10973164.42		A	0.1
5	☐	1.000		10969923.86		A	0.1
6	☐	1.000		11145634.00		A	0.8
7	☐	1.000		11279653.17		A	1.7
8	☐	1.000		10613483.87		A	0.5

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		11592408.72		A	0.6
2	☐	1.000		11545463.72		A	0.4
3	☐	1.000		11449437.19		A	1.2
4	☐	1.000		11527225.52		A	1.3
5	☐	1.000		11370340.52		A	1.0
6	☐	1.000		11418143.02		A	1.0
7	☐	1.000		11176491.50		A	2.5
8	☐	1.000		9886187.42		A	1.1

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		8162739.95		A	0.6
2	☐	1.000		8237006.61		A	0.3
3	☐	1.000		8145614.60		A	0.2
4	☐	1.000		8088127.52		A	0.5
5	☐	1.000		8074902.66		A	0.8
6	☐	1.000		8053743.70		A	1.0
7	☐	1.000		7943205.79		A	1.5
8	☐	1.000		6784670.46		P	0.6

US EPA Tune Check Sample Report

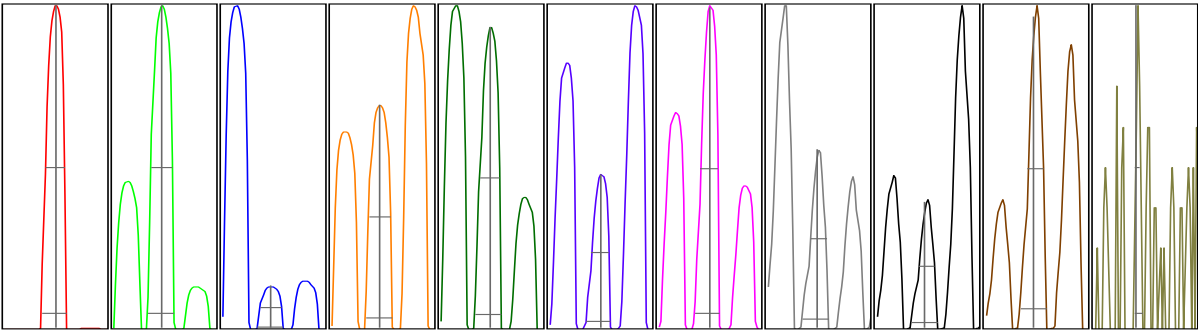
Batch Folder C:\Agilent\ICPMH\1\DATA\P7092921-MS.b
Report Comment
Instrument Name G8403A JP14410463

[No Gas]

Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)	RSD% (Flag)
9	14985	0.26	5.00	
24	134607	0.07	5.00	
25	17870	0.26	5.00	
26	20604	0.29	5.00	
59	29344	0.44	5.00	
113	16421	0.54	5.00	
115	51465	1.90	5.00	
206	22614	0.32	5.00	
207	19136	0.50	5.00	
208	47094	0.55	5.00	
220	0	29.88		

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
9	14941	15040	14963	15007	14972
24	134470	134641	134732	134549	134644
25	17853	17813	17852	17900	17934
26	20523	20685	20611	20583	20618
59	29148	29511	29353	29338	29369
113	16405	16567	16389	16326	16419
115	52637	52211	51393	50846	50237
206	22590	22522	22614	22620	22723
207	19087	19260	19170	19157	19004
208	46894	47533	46909	47099	47035
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	26733	9.05	8.9 - 9.1		0.732	0.900	
24	226103	23.95	23.9 - 24.1		0.772	0.900	
25	29852	24.95	24.9 - 25.1		0.743	0.900	
26	33800	25.95	25.9 - 26.1		0.781	0.900	
59	51495	59.00	58.9 - 59.1		0.773	0.900	
113	31779	113.05	112.9 - 113.1		0.696	0.900	
115	99169	115.05	114.9 - 115.1		0.723	0.900	
206	48941	206.00	205.9 - 206.1		0.767	0.900	
207	40337	206.95	206.9 - 207.1		0.767	0.900	
208	99798	207.95	207.9 - 208.1		0.772	0.900	
220	0	219.75	-		0.239		

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	0.72	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		0.42 L/min

Lenses Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Extract 1	0.0	V	Omega Lens	9.8	V	Deflect	13.8	V
Extract 2	-135.0	V	Cell Entrance	-30	V	Plate Bias	-35	V
Omega Bias	-75	V	Cell Exit	-50	V			

Cell Parameters

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

[He]

Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)
59	9810	0.22	
89	50114	0.65	
205	26790	0.73	

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
59	9810	9816	9773	9824	9828
89	50534	49723	49882	50110	50323
205	26651	26628	26680	27068	26924

Integration Time [sec] = 0.1

Tune Parameters

Plasma Paramters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
RF Power	1600	W	Carrier Gas	0.72	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		0.42 L/min

Lenses Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Extract 1	0.0	V	Omega Lens	9.6	V	Deflect	2.0	V
Extract 2	-135.0	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	200	V			