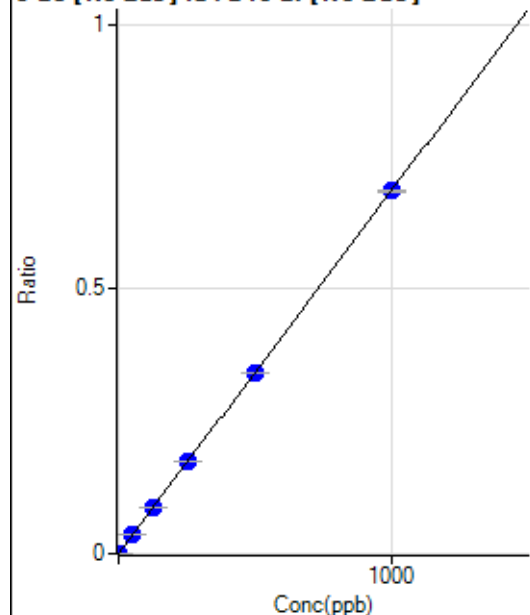


Batch Folder: C:\Agilent\ICPMH\1\DATA\P7062421AMS.b\
Analysis File: P7062421AMS.batch.bin
DA Date-Time: 2021-07-13 14:04:14
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2021-06-24 14:28:25
2	005CALS.d	S02	2021-06-24 14:34:42
3	006CALS.d	S03	2021-06-24 14:37:49
4	007CALS.d	S04	2021-06-24 14:40:56
5	008CALS.d	S05	2021-06-24 14:44:02
6	009CALS.d	S06	2021-06-24 14:47:05
7	010CALS.d	S07	2021-06-24 14:50:02
8	011CALS.d	S08	2021-06-24 14:52:58

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	53.71	0.0000	P	39.8
2	☐	1.000	1.062	1348.23	0.0008	P	7.1
3	☐	50.000	51.468	62663.79	0.0353	P	1.5
4	☐	125.000	127.393	153645.32	0.0874	P	2.1
5	☐	250.000	251.991	302759.84	0.1729	P	0.3
6	☐	500.000	499.359	590376.53	0.3426	P	0.4
7	☐	1000.000	999.450	1138197.25	0.6856	P	0.8
8	☐			500.01	0.0003	P	13.7

$$y = 6.8594\text{E-}004 * x + 3.0625\text{E-}005$$

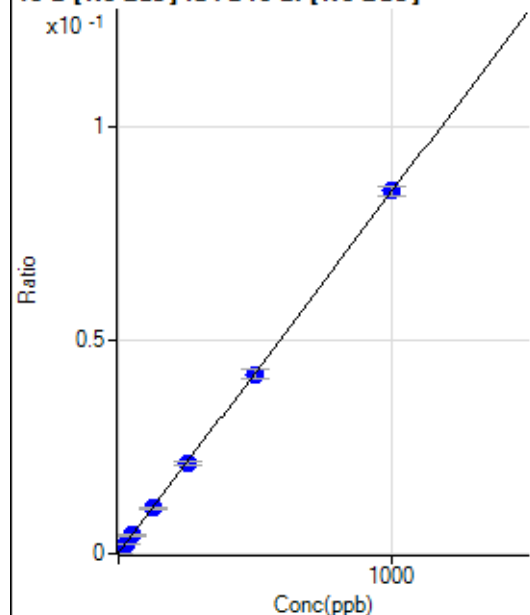
$$R = 1.0000$$

$$DL = 0.05336$$

$$BEC = 0.04465$$

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	325.01	0.0002	P	5.0
2	☐	25.000	24.669	4039.52	0.0023	P	3.1
3	☐	50.000	49.154	7707.69	0.0043	P	4.7
4	☐	125.000	124.280	18823.22	0.0107	P	4.9
5	☐	250.000	247.085	36948.27	0.0211	P	3.9
6	☐	500.000	495.481	72615.93	0.0421	P	4.8
7	☐	1000.000	1003.129	141300.53	0.0851	P	2.9
8	☐			5373.31	0.0034	P	14.3

$$y = 8.4659\text{E-}005 * x + 1.8502\text{E-}004$$

$$R = 1.0000$$

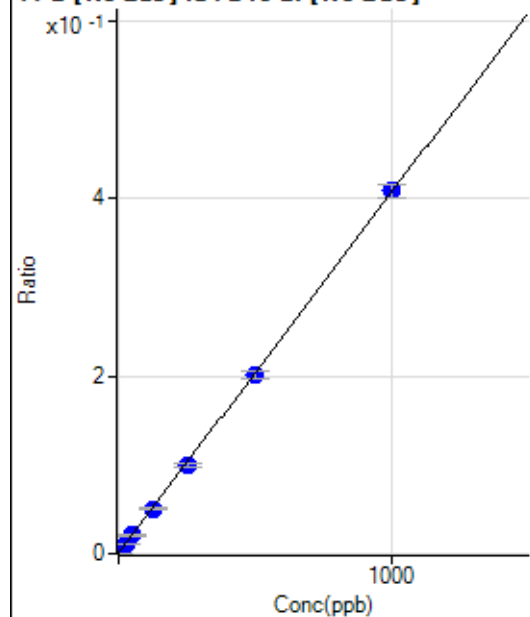
$$DL = 0.3259$$

$$BEC = 2.185$$

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	1691.81	0.0010	P	3.4
2	☐	25.000	25.194	19866.23	0.0112	P	3.5
3	☐	50.000	48.950	36914.90	0.0208	P	4.5
4	☐	125.000	122.511	89041.71	0.0506	P	3.4
5	☐	250.000	244.406	175248.82	0.1001	P	4.3
6	☐	500.000	494.006	346962.72	0.2013	P	3.5
7	☐	1000.000	1004.754	678136.02	0.4085	P	3.7
8	☐			26273.45	0.0168	P	9.7

$$y = 4.0556E-004 * x + 9.6321E-004$$

$$R = 1.0000$$

$$DL = 0.2455$$

$$BEC = 2.375$$

Weight: <None>

Min Conc: 0

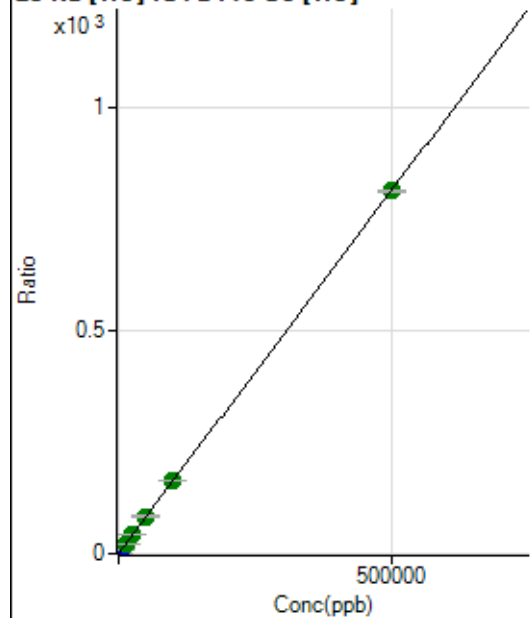
12 C [No Gas] No available calibration points



	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	18787.13	0.0660	P	0.9
2	☐	500.000	501.145	254431.02	0.8819	P	0.4
3	☐	5000.000	4985.130	2332649.72	8.1821	P	0.4
4	☐	12500.000	12947.171	5967994.66	21.1450	A	0.9
5	☐	25000.000	25807.119	11736079.69	42.0819	A	0.8
6	☐	50000.000	51506.740	23232055.90	83.9229	A	2.1
7	☐	100000.00	101000.09	44816342.67	164.5019	A	1.2
8	☐	500000.00	499597.91	216229293.7	813.4496	A	0.4

$$y = 0.0016 * x + 0.0660$$

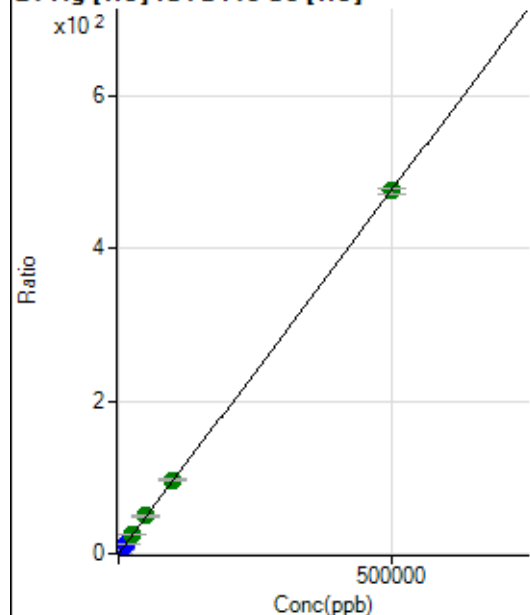
$$R = 1.0000$$

$$DL = 1.069$$

$$BEC = 40.52$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	844.49	0.0030	P	10.3
2	☐	500.000	493.903	136498.18	0.4731	P	0.7
3	☐	5000.000	5039.241	1368341.13	4.7997	P	0.4
4	☐	12500.000	12450.461	3345746.69	11.8542	P	0.9
5	☐	25000.000	25959.897	6892180.10	24.7134	A	1.0
6	☐	50000.000	51985.296	13699967.84	49.4863	A	1.6
7	☐	100000.00	101527.33	26329788.26	96.6439	A	0.8
8	☐	500000.00	499448.86	126366479.2	475.4139	A	1.6

$$y = 9.5187\text{E-}004 * x + 0.0030$$

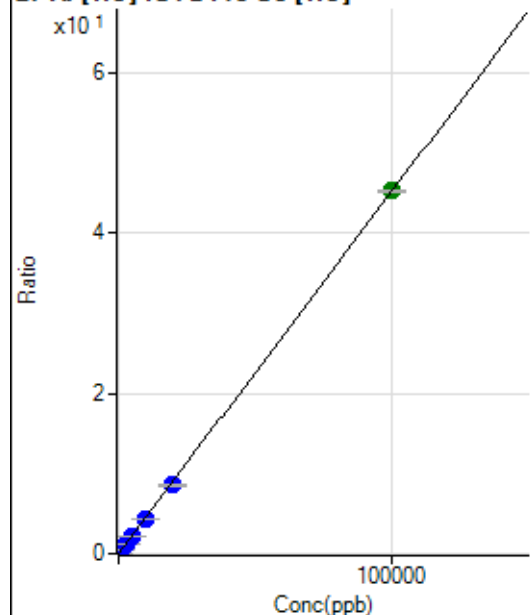
$$R = 1.0000$$

$$DL = 0.9621$$

$$BEC = 3.117$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	119.45	0.0004	P	28.2
2	☐	20.000	20.762	2825.35	0.0098	P	3.0
3	☐	1000.000	983.086	126633.97	0.4442	P	1.6
4	☐	2500.000	2466.383	314346.47	1.1138	P	2.0
5	☐	5000.000	4855.844	611464.52	2.1925	P	0.5
6	☐	10000.000	9641.565	1204980.83	4.3529	P	2.2
7	☐	20000.000	18880.465	2322188.49	8.5236	P	0.4
8	☐	100000.00	100267.96	12032160.86	45.2641	A	0.2

$$y = 4.5143\text{E-}004 * x + 4.1939\text{E-}004$$

$$R = 0.9999$$

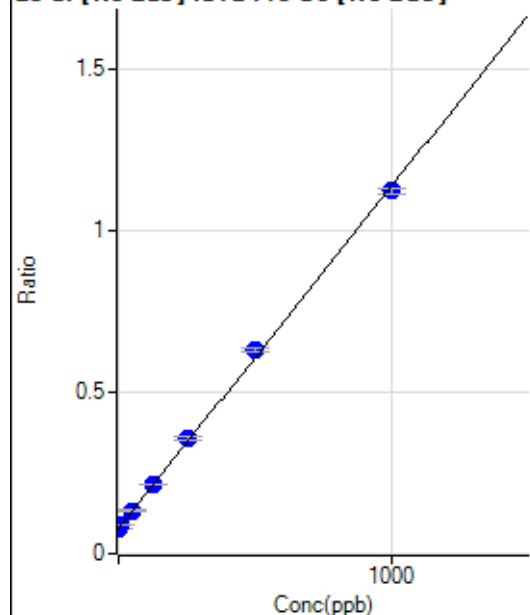
$$DL = 0.786$$

$$BEC = 0.929$$

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	270163.96	0.0780	P	1.1
2	☐	10.000	8.379	305973.45	0.0869	P	0.2
3	☐	50.000	52.063	467128.64	0.1331	P	1.1
4	☐	125.000	127.969	744480.80	0.2135	P	1.4
5	☐	250.000	263.288	1235405.22	0.3568	P	2.5
6	☐	500.000	519.876	2141977.96	0.6284	P	1.7
7	☐	1000.000	986.282	3773974.00	1.1222	P	1.3
8	☐			422327.80	0.1328	P	3.7

$$y = 0.0011 * x + 0.0780$$

$$R = 0.9996$$

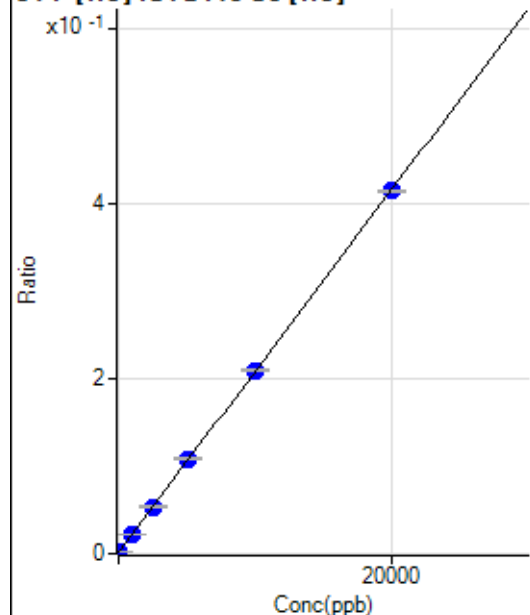
$$DL = 2.344$$

$$BEC = 73.71$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	2.519	400.02	0.0014	P	17.5
2	☐	0.000	-2.519	375.02	0.0013	P	11.7
3	☐	1000.000	1013.194	6376.52	0.0224	P	1.9
4	☐	2500.000	2514.067	15096.83	0.0535	P	2.7
5	☐	5000.000	5159.648	30220.02	0.1084	P	1.8
6	☐	10000.000	10026.744	57948.59	0.2093	P	0.8
7	☐	20000.000	19944.298	113066.57	0.4150	P	0.4
8	☐			419.46	0.0016	P	11.4

$$y = 2.0740E-005 * x + 0.0014$$

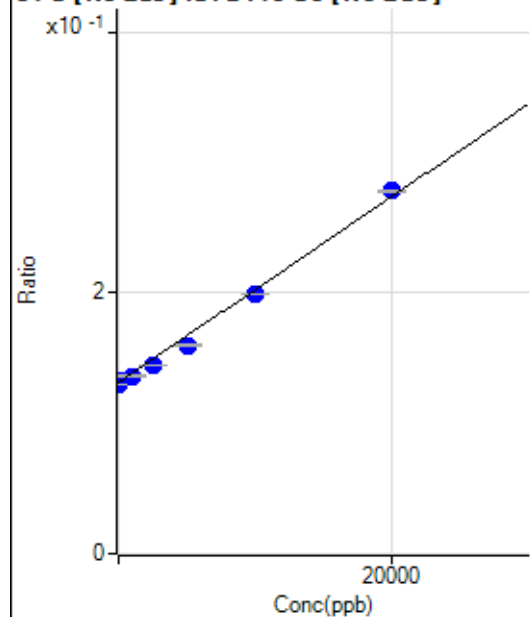
$$R = 1.0000$$

$$DL = 28.83$$

$$BEC = 65.16$$

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	242.333	461262.11	0.1332	P	0.8
2	☐	0.000	-242.333	456916.46	0.1298	P	0.3
3	☐	1000.000	683.146	478397.41	0.1364	P	0.8
4	☐	2500.000	1825.153	503876.34	0.1445	P	0.4
5	☐	5000.000	4009.611	554237.50	0.1601	P	0.9
6	☐	10000.000	9464.146	678051.65	0.1989	P	0.4
7	☐	20000.000	20615.723	936287.44	0.2784	P	0.4
8	☐			392239.79	0.1234	P	1.1

$$y = 7.1256E-006 * x + 0.1315$$

$$R = 0.9979$$

$$DL = 309.4$$

$$BEC = 1.845E+04$$

Weight: <None>

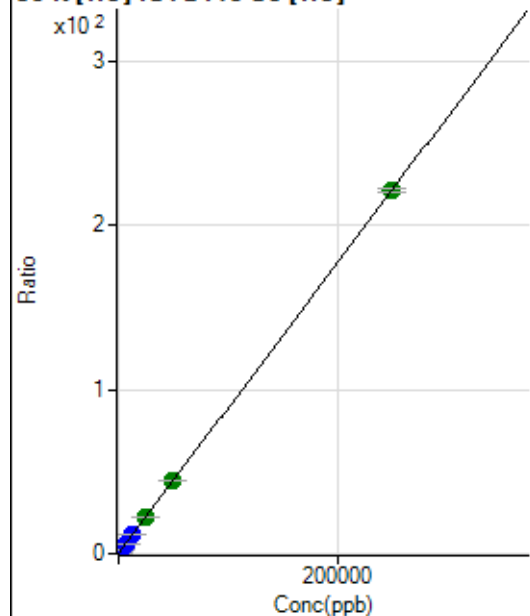
Min Conc: 0

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	48596.62	0.1707	P	1.5
2	☐	500.000	509.291	179064.39	0.6207	P	0.6
3	☐	2500.000	2564.792	694715.70	2.4369	P	0.9
4	☐	6250.000	6411.013	1647013.09	5.8354	P	0.5
5	☐	12500.000	12720.648	3182222.46	11.4105	P	0.9
6	☐	25000.000	25277.519	6230312.16	22.5056	A	1.7
7	☐	50000.000	49853.806	12047746.36	44.2209	A	0.3
8	☐	250000.00	249985.76	58758195.76	221.0553	A	0.9

$$y = 8.8359E-004 * x + 0.1707$$

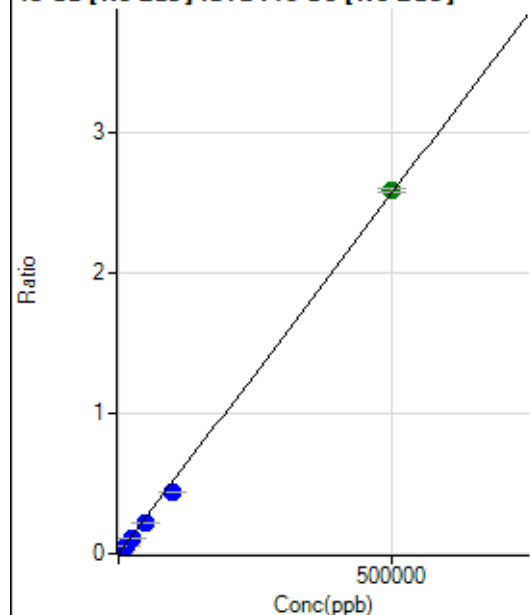
$$R = 1.0000$$

$$DL = 8.68$$

$$BEC = 193.1$$

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	167.14	0.0000	P	23.0
2	☐	500.000	505.404	9313.55	0.0026	P	6.3
3	☐	5000.000	4335.493	78308.68	0.0223	P	0.5
4	☐	12500.000	10748.442	192713.31	0.0553	P	0.6
5	☐	25000.000	21365.832	380238.57	0.1098	P	0.8
6	☐	50000.000	42758.741	748894.50	0.2197	P	0.5
7	☐	100000.00	85094.053	1470384.99	0.4372	P	0.3
8	☐	500000.00	503937.45	8231325.96	2.5889	A	1.0

$$y = 5.1373\text{E-}006 * x + 4.8270\text{E-}005$$

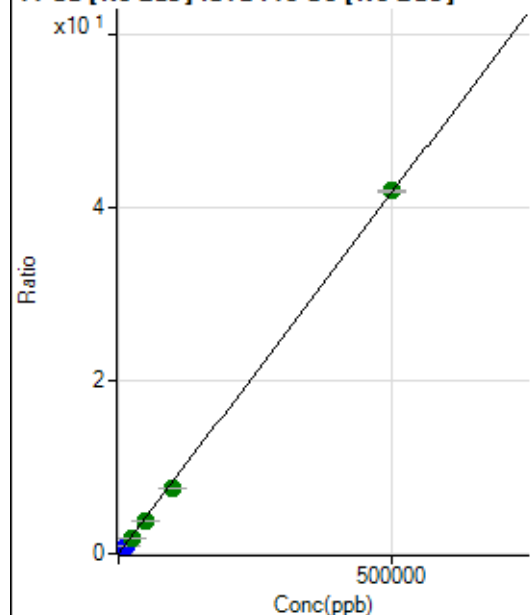
$$R = 0.9995$$

$$DL = 6.493$$

$$BEC = 9.396$$

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	9004.87	0.0026	P	2.4
2	☐	500.000	495.069	154768.93	0.0440	P	1.3
3	☐	5000.000	4544.691	1341034.57	0.3822	P	0.3
4	☐	12500.000	11172.053	3263365.74	0.9359	P	0.3
5	☐	25000.000	22387.127	6484610.46	1.8727	A	0.6
6	☐	50000.000	45087.223	12846729.15	3.7690	A	0.5
7	☐	100000.00	90003.660	25294560.29	7.5212	A	0.8
8	☐	500000.00	502658.94	133517305.7	41.9929	A	0.5

$$y = 8.3536\text{E-}005 * x + 0.0026$$

$$R = 0.9998$$

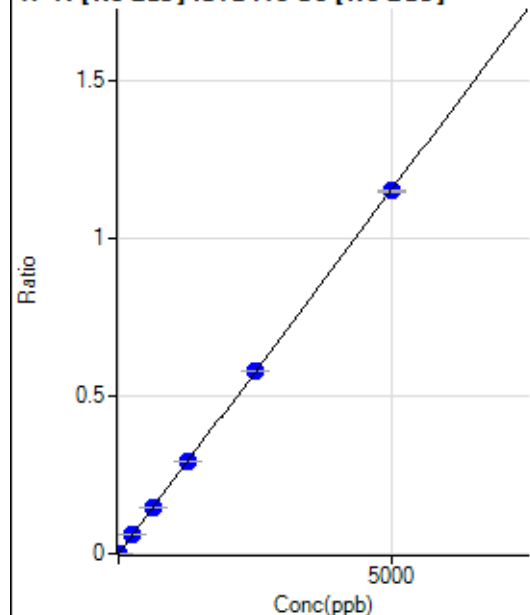
$$DL = 2.217$$

$$BEC = 31.13$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	61.11	0.0000	P	47.8
2	☐	5.000	5.202	4284.07	0.0012	P	3.3
3	☐	250.000	255.768	206919.03	0.0590	P	1.0
4	☐	625.000	636.025	511338.12	0.1466	P	0.3
5	☐	1250.000	1261.073	1006703.99	0.2907	P	0.5
6	☐	2500.000	2518.671	1979124.00	0.5807	P	0.4
7	☐	5000.000	4986.230	3866015.06	1.1495	P	0.2
8	☐			1711.26	0.0005	P	10.9

$$y = 2.3053E-004 * x + 1.7644E-005$$

$$R = 1.0000$$

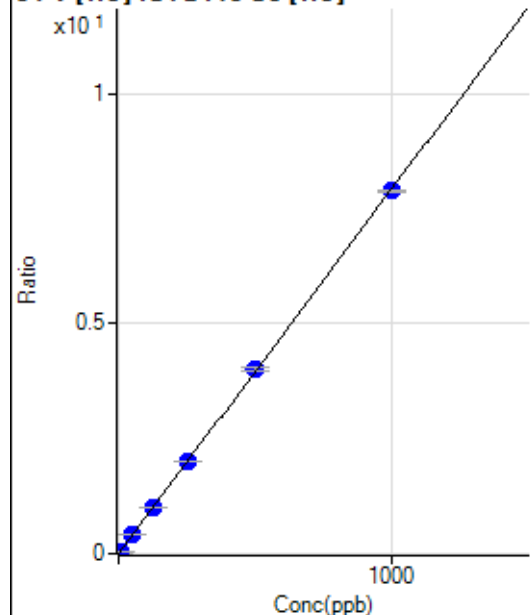
$$DL = 0.1099$$

$$BEC = 0.07654$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	5.56	0.0000	P	91.6
2	☐	5.000	5.253	11994.97	0.0416	P	2.0
3	☐	50.000	51.115	115299.79	0.4044	P	0.2
4	☐	125.000	127.512	284742.07	1.0089	P	0.8
5	☐	250.000	253.867	560161.23	2.0085	P	0.6
6	☐	500.000	505.964	1108188.59	4.0031	P	1.6
7	☐	1000.000	995.680	2146174.10	7.8775	P	0.4
8	☐			902.26	0.0034	P	6.6

$$y = 0.0079 * x + 1.9579E-005$$

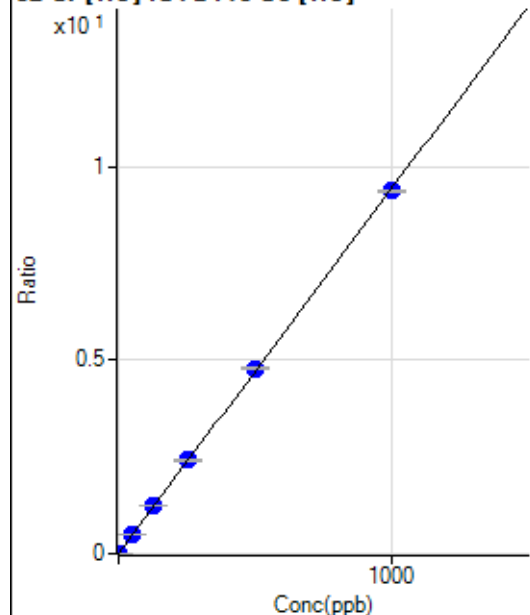
$$R = 1.0000$$

$$DL = 0.006803$$

$$BEC = 0.002475$$

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	1230.06	0.0043	P	7.3
2	☐	2.000	2.093	6933.91	0.0240	P	2.7
3	☐	50.000	51.880	140560.17	0.4930	P	0.6
4	☐	125.000	129.487	345509.98	1.2241	P	0.3
5	☐	250.000	256.254	674414.03	2.4183	P	1.2
6	☐	500.000	507.439	1324543.92	4.7845	P	1.4
7	☐	1000.000	994.062	2552394.81	9.3686	P	0.7
8	☐			10537.16	0.0396	P	1.9

$$y = 0.0094 * x + 0.0043$$

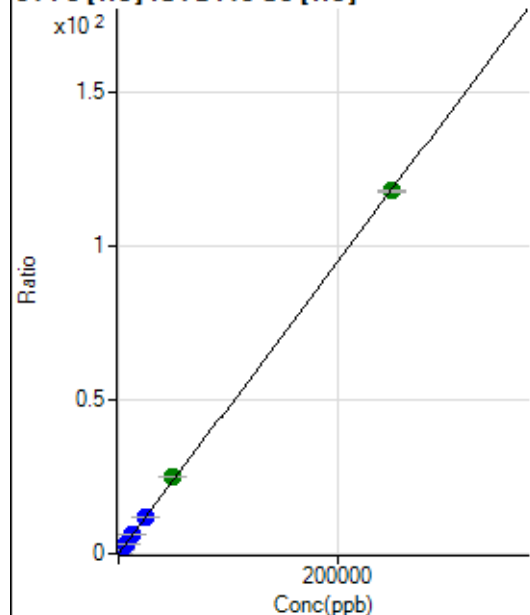
$$R = 0.9999$$

$$DL = 0.1003$$

$$BEC = 0.4587$$

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	1101.18	0.0039	P	3.0
2	☐	50.000	53.282	8381.00	0.0290	P	2.4
3	☐	2500.000	2606.057	352247.85	1.2356	P	0.2
4	☐	6250.000	6515.442	870228.53	3.0832	P	0.6
5	☐	12500.000	12914.070	1703270.85	6.1074	P	0.8
6	☐	25000.000	25489.940	3336148.66	12.0511	P	1.7
7	☐	50000.000	52769.093	6795628.93	24.9439	A	1.3
8	☐	250000.00	249368.78	31329657.09	117.8620	A	0.5

$$y = 4.7263E-004 * x + 0.0039$$

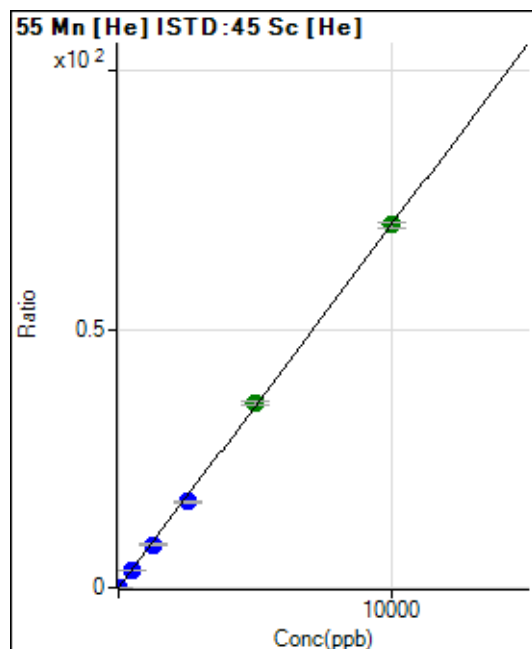
$$R = 0.9999$$

$$DL = 0.7328$$

$$BEC = 8.183$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	172.23	0.0006	P	14.6
2	☐	1.000	0.959	2115.73	0.0073	P	5.5
3	☐	500.000	480.887	962078.67	3.3746	P	0.1
4	☐	1250.000	1191.585	2359859.24	8.3610	P	0.6
5	☐	2500.000	2365.354	4628458.75	16.5963	P	1.0
6	☐	5000.000	5089.641	9885871.66	35.7104	A	1.9
7	☐	10000.000	9997.098	19109105.97	70.1419	A	1.4
8	☐			13131.48	0.0494	P	0.5

$$y = 0.0070 * x + 6.0454E-004$$

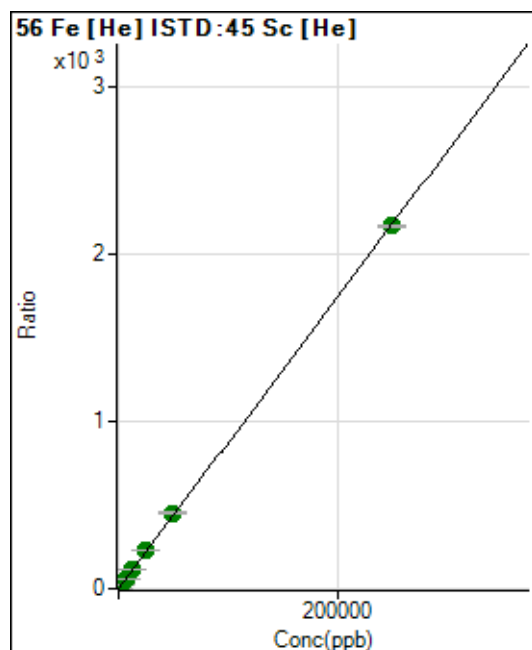
$$R = 0.9998$$

$$DL = 0.03779$$

$$BEC = 0.08616$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	6829.47	0.0240	P	2.5
2	☐	50.000	52.010	137634.66	0.4771	P	1.2
3	☐	2500.000	2683.902	6672687.13	23.4055	A	0.4
4	☐	6250.000	6661.668	16387580.46	58.0589	A	0.5
5	☐	12500.000	13351.103	32444963.46	116.3358	A	0.7
6	☐	25000.000	26466.508	63836259.30	230.5942	A	2.0
7	☐	50000.000	52023.396	123480424.0	453.2400	A	0.8
8	☐	250000.00	249393.98	577523931.4	2,172.687	A	0.8

$$y = 0.0087 * x + 0.0240$$

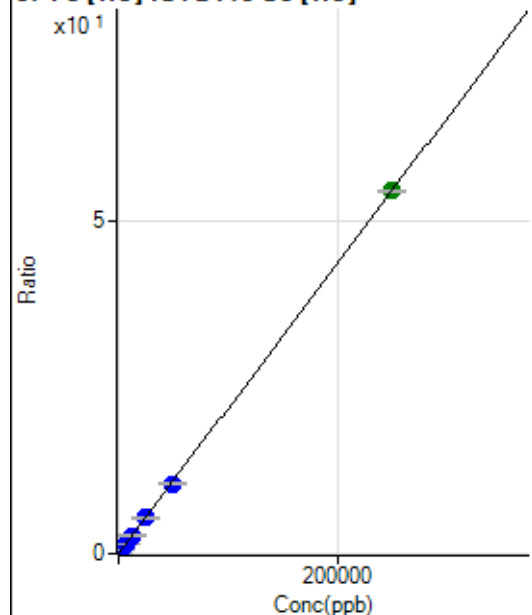
$$R = 1.0000$$

$$DL = 0.2052$$

$$BEC = 2.753$$

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	183.34	0.0006	P	16.6
2	☐	50.000	51.023	3389.35	0.0118	P	6.6
3	☐	2500.000	2535.054	157514.89	0.5525	P	1.2
4	☐	6250.000	6288.507	386582.17	1.3697	P	0.5
5	☐	12500.000	12593.788	764792.35	2.7423	P	1.0
6	☐	25000.000	24728.316	1490493.99	5.3840	P	1.6
7	☐	50000.000	48354.875	2868146.39	10.5275	P	0.4
8	☐	250000.00	250350.19	14487263.98	54.5020	A	0.7

$$y = 2.1770E-004 * x + 6.4421E-004$$

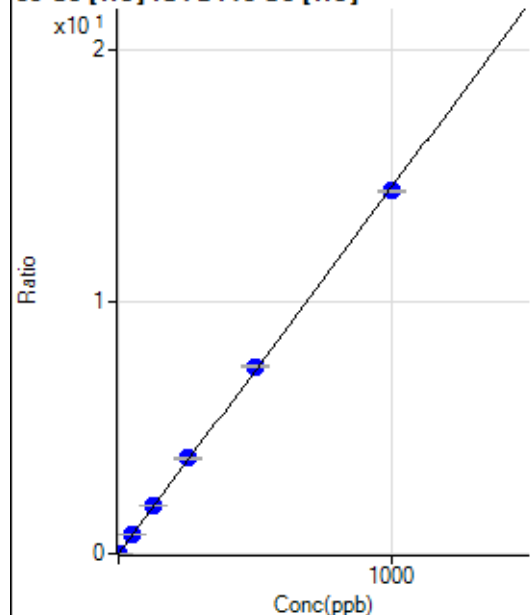
$$R = 1.0000$$

$$DL = 1.47$$

$$BEC = 2.959$$

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	96.67	0.0003	P	14.9
2	☐	1.000	1.072	4589.65	0.0159	P	3.0
3	☐	50.000	52.945	219385.99	0.7695	P	0.8
4	☐	125.000	130.936	537007.22	1.9026	P	0.2
5	☐	250.000	260.357	1054991.96	3.7828	P	0.6
6	☐	500.000	511.395	2056884.90	7.4299	P	1.6
7	☐	1000.000	990.824	3921853.21	14.3951	P	0.2
8	☐			6457.04	0.0243	P	2.0

$$y = 0.0145 * x + 3.3938E-004$$

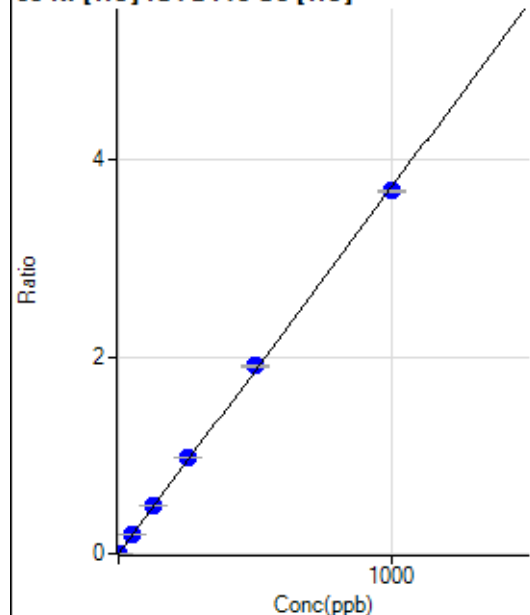
$$R = 0.9998$$

$$DL = 0.01041$$

$$BEC = 0.02336$$

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	107.78	0.0004	P	26.2
2	☐	1.000	1.128	1321.18	0.0046	P	3.5
3	☐	50.000	53.378	56750.14	0.1991	P	0.1
4	☐	125.000	131.639	138400.59	0.4904	P	0.9
5	☐	250.000	260.589	270614.25	0.9703	P	0.4
6	☐	500.000	512.220	527913.82	1.9069	P	1.4
7	☐	1000.000	990.244	1004275.54	3.6862	P	0.4
8	☐			3063.68	0.0115	P	1.9

$$y = 0.0037 * x + 3.7864E-004$$

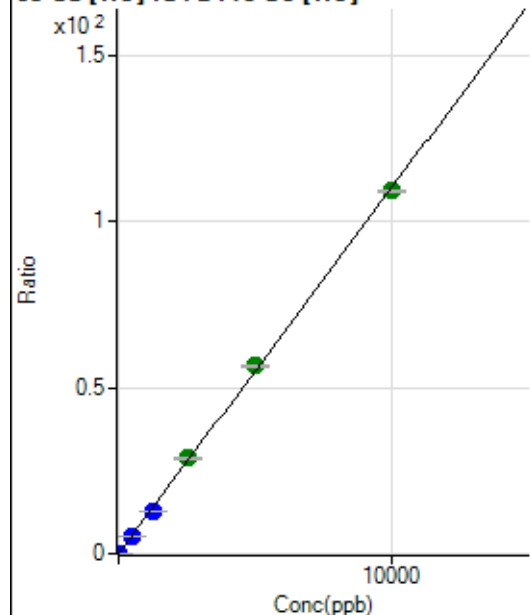
$$R = 0.9998$$

$$DL = 0.08008$$

$$BEC = 0.1017$$

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	858.92	0.0030	P	3.9
2	☐	2.000	1.749	6428.13	0.0223	P	1.2
3	☐	500.000	473.964	1489616.25	5.2251	P	0.7
4	☐	1250.000	1167.526	3631638.91	12.8667	P	0.2
5	☐	2500.000	2610.070	8020904.05	28.7605	A	0.8
6	☐	5000.000	5130.327	15649975.18	56.5284	A	1.0
7	☐	10000.000	9918.930	29774786.22	109.2887	A	0.5
8	☐			16666.21	0.0627	P	0.5

$$y = 0.0110 * x + 0.0030$$

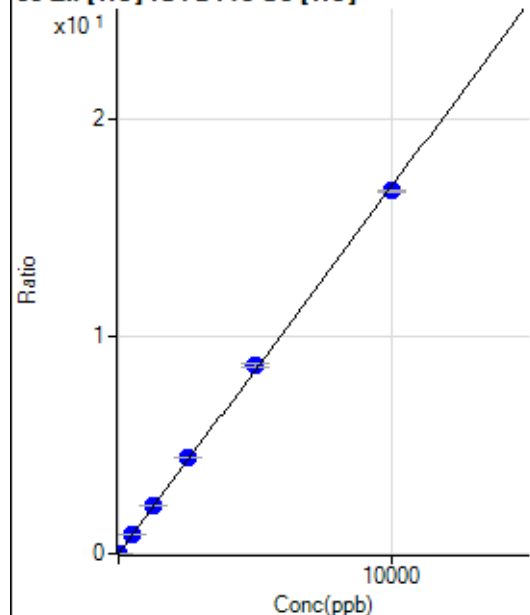
$$R = 0.9997$$

$$DL = 0.03219$$

$$BEC = 0.2738$$

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	414.45	0.0015	P	9.5
2	☐	2.000	2.455	1617.89	0.0056	P	3.4
3	☐	500.000	530.436	256208.50	0.8987	P	1.0
4	☐	1250.000	1325.377	633185.00	2.2434	P	0.7
5	☐	2500.000	2628.989	1240634.14	4.4485	P	0.6
6	☐	5000.000	5145.950	2410143.75	8.7060	P	1.6
7	☐	10000.000	9883.834	4555276.08	16.7202	P	0.6
8	☐			10659.53	0.0401	P	1.6

$$y = 0.0017 * x + 0.0015$$

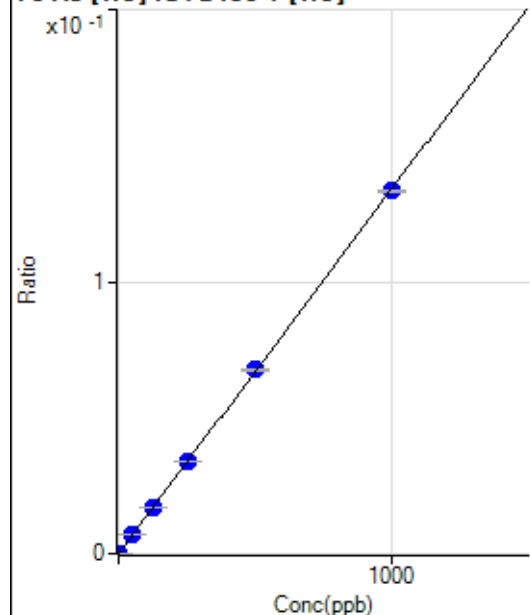
$$R = 0.9997$$

$$DL = 0.2459$$

$$BEC = 0.8601$$

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	3.70	0.0000	P	0.1
2	☐	1.000	0.996	311.11	0.0001	P	7.6
3	☐	50.000	51.396	15735.67	0.0069	P	1.8
4	☐	125.000	128.176	38811.38	0.0172	P	1.0
5	☐	250.000	254.960	76630.25	0.0342	P	0.3
6	☐	500.000	504.876	151051.92	0.0677	P	0.7
7	☐	1000.000	995.855	293279.93	0.1335	P	0.2
8	☐			164.82	0.0001	P	11.7

$$y = 1.3404E-004 * x + 1.6266E-006$$

$$R = 1.0000$$

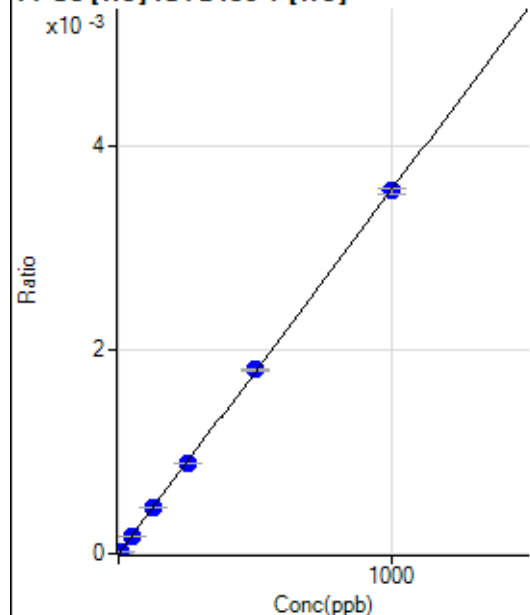
$$DL = 5.169E-05$$

$$BEC = 0.01214$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1.11	0.0000	P	173.
2	☐	5.000	6.083	51.11	0.0000	P	39.8
3	☐	50.000	47.374	387.79	0.0002	P	4.1
4	☐	125.000	127.061	1026.71	0.0005	P	3.0
5	☐	250.000	248.930	1995.71	0.0009	P	1.5
6	☐	500.000	505.468	4032.82	0.0018	P	1.8
7	☐	1000.000	997.402	7832.18	0.0036	P	1.9
8	☐			1.11	0.0000	P	173.

$$y = 3.5736\text{E-}006 * x + 4.8874\text{E-}007$$

$$R = 1.0000$$

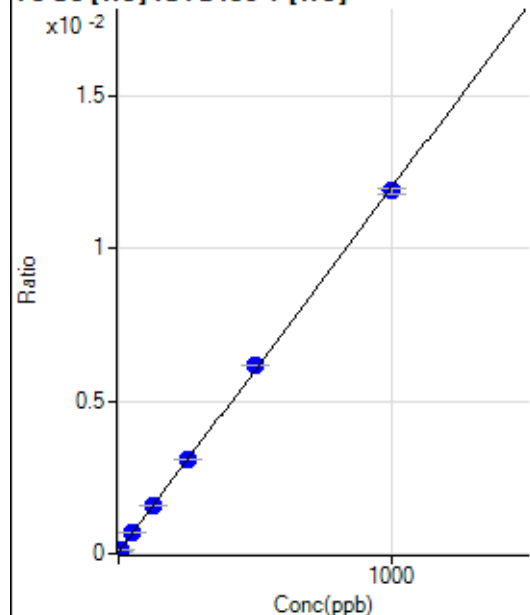
$$DL = 0.7106$$

$$BEC = 0.1368$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	124.07	0.0001	P	6.6
2	☐	5.000	5.244	269.76	0.0001	P	9.1
3	☐	50.000	52.597	1559.35	0.0007	P	3.8
4	☐	125.000	125.759	3516.49	0.0016	P	1.3
5	☐	250.000	255.122	6954.77	0.0031	P	1.2
6	☐	500.000	513.642	13815.24	0.0062	P	0.7
7	☐	1000.000	991.673	26143.23	0.0119	P	1.4
8	☐			130.87	0.0001	P	11.4

$$y = 1.1944\text{E-}005 * x + 5.4547\text{E-}005$$

$$R = 0.9998$$

$$DL = 0.9097$$

$$BEC = 4.567$$

Weight: <None>

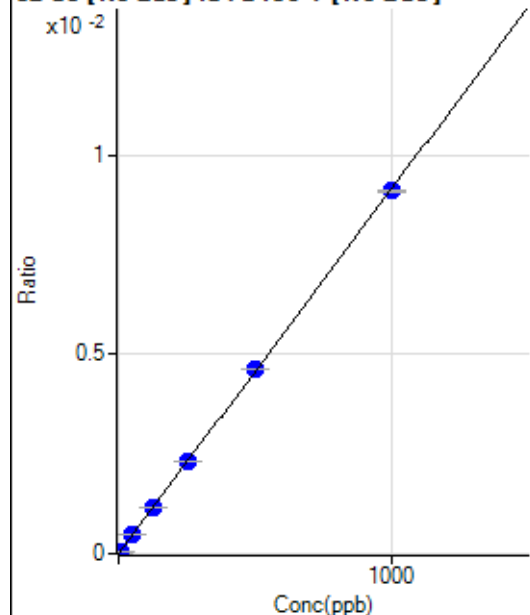
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4767.58		P	3.4
2	☐			4931.55		P	1.8
3	☐			5045.47		P	7.1
4	☐			4859.31		P	3.4
5	☐			4484.15		P	3.1
6	☐			4631.41		P	4.4
7	☐			4773.14		P	1.7
8	☐			4539.72		P	2.8

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			66.73		P	17.3
2	☐			76.74		P	27.2
3	☐			66.74		P	60.6
4	☐			80.08		P	50.0
5	☐			53.39		P	21.7
6	☐			50.05		P	87.2
7	☐			46.71		P	12.4
8	☐			80.08		P	12.5

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	23.04	0.0000	P	404.
2	☐	5.000	5.366	536.87	0.0001	P	5.6
3	☐	50.000	51.820	4963.02	0.0005	P	3.7
4	☐	125.000	128.496	12227.60	0.0012	P	0.3
5	☐	250.000	253.022	24181.21	0.0023	P	0.9
6	☐	500.000	507.500	48146.87	0.0046	P	0.2
7	☐	1000.000	994.965	93254.20	0.0091	P	0.7
8	☐			32.92	0.0000	P	387.

$$y = 9.1449\text{E-}006 * x + 2.2729\text{E-}006$$

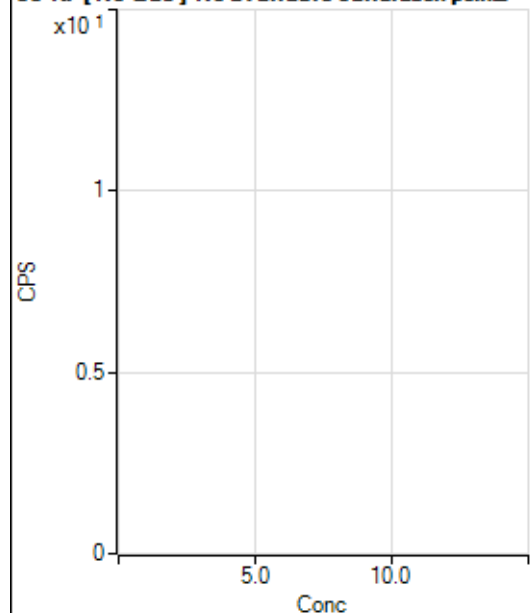
$$R = 1.0000$$

$$DL = 3.012$$

$$BEC = 0.2485$$

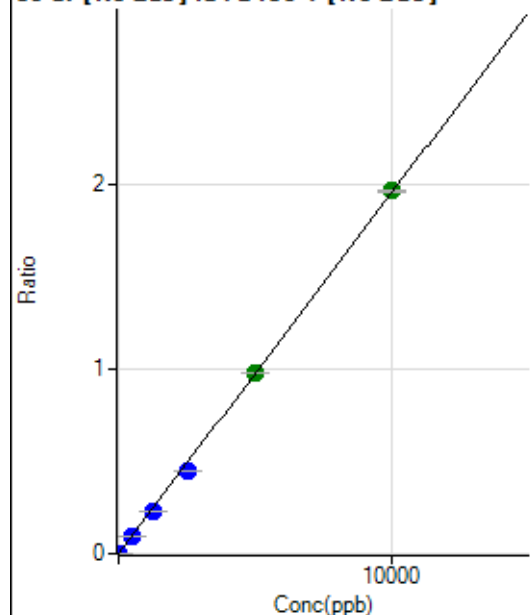
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			1088.94		P	8.7
2	☐			1116.72		P	1.6
3	☐			1141.17		P	6.4
4	☐			1101.17		P	3.5
5	☐			1045.60		P	7.7
6	☐			1125.61		P	1.5
7	☐			1032.27		P	10.1
8	☐			1033.38		P	11.2

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1861.27	0.0002	P	8.3
2	☐	1.000	0.864	3658.89	0.0003	P	5.7
3	☐	500.000	469.260	959906.69	0.0921	P	1.0
4	☐	1250.000	1165.933	2373333.91	0.2285	P	0.4
5	☐	2500.000	2290.759	4685715.25	0.4488	P	1.4
6	☐	5000.000	5018.100	10192280.52	0.9830	A	0.6
7	☐	10000.000	10055.306	20180820.59	1.9695	A	0.9
8	☐			10848.75	0.0011	P	1.4

$$y = 1.9585E-004 * x + 1.8074E-004$$

$$R = 0.9998$$

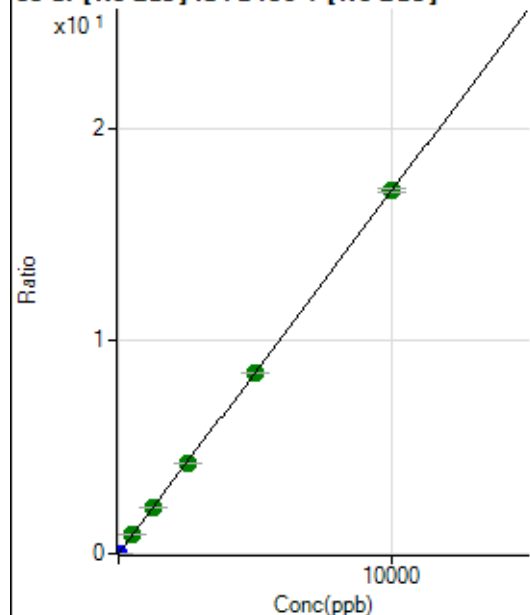
$$DL = 0.2301$$

$$BEC = 0.9229$$

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	291.67	0.0000	P	23.3
2	☐	1.000	0.961	17433.12	0.0017	P	1.2
3	☐	500.000	506.265	9003072.34	0.8637	A	0.6
4	☐	1250.000	1266.155	22431905.54	2.1599	A	0.1
5	☐	2500.000	2486.806	44288962.80	4.2422	A	1.6
6	☐	5000.000	4994.184	88338138.78	8.5195	A	0.5
7	☐	10000.000	10003.874	174862706.6	17.0654	A	1.0
8	☐			79058.79	0.0082	P	1.3

$$y = 0.0017 * x + 2.8318E-005$$

$$R = 1.0000$$

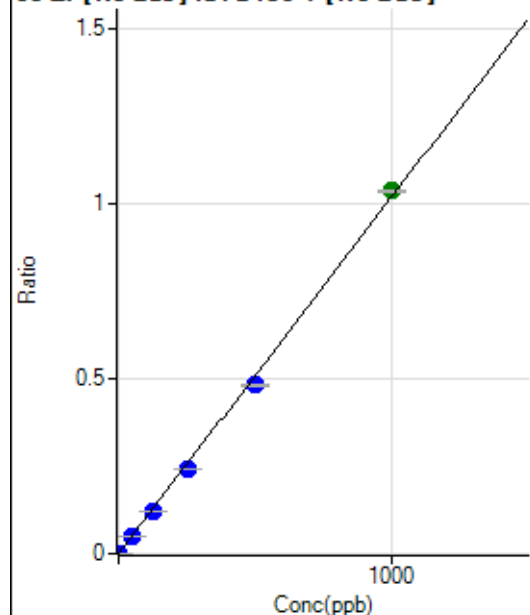
$$DL = 0.01161$$

$$BEC = 0.0166$$

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	500.02	0.0000	P	33.5
2	☐	1.000	0.956	10701.42	0.0010	P	2.2
3	☐	50.000	48.058	511616.58	0.0491	P	1.1
4	☐	125.000	120.598	1278344.94	0.1231	P	0.6
5	☐	250.000	238.287	2538652.27	0.2432	P	1.2
6	☐	500.000	471.965	4993510.40	0.4816	P	0.7
7	☐	1000.000	1017.593	10638333.05	1.0383	A	0.9
8	☐			4428.56	0.0005	P	1.2

$$y = 0.0010 * x + 4.8590E-005$$

$$R = 0.9994$$

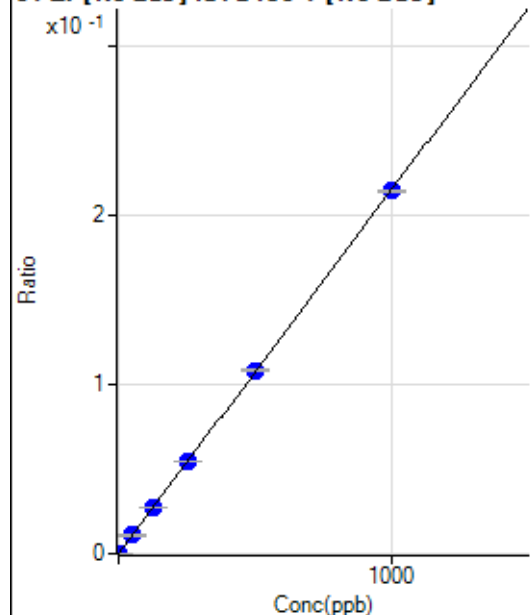
$$DL = 0.04792$$

$$BEC = 0.04763$$

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	122.23	0.0000	P	8.2
2	☐	1.000	0.993	2355.81	0.0002	P	6.9
3	☐	50.000	50.393	113090.26	0.0108	P	1.1
4	☐	125.000	126.986	283732.57	0.0273	P	0.6
5	☐	250.000	252.784	567658.67	0.0544	P	1.2
6	☐	500.000	503.701	1123293.78	0.1083	P	0.8
7	☐	1000.000	997.186	2197403.30	0.2145	P	0.7
8	☐			925.06	0.0001	P	23.6

$$y = 2.1505E-004 * x + 1.1872E-005$$

$$R = 1.0000$$

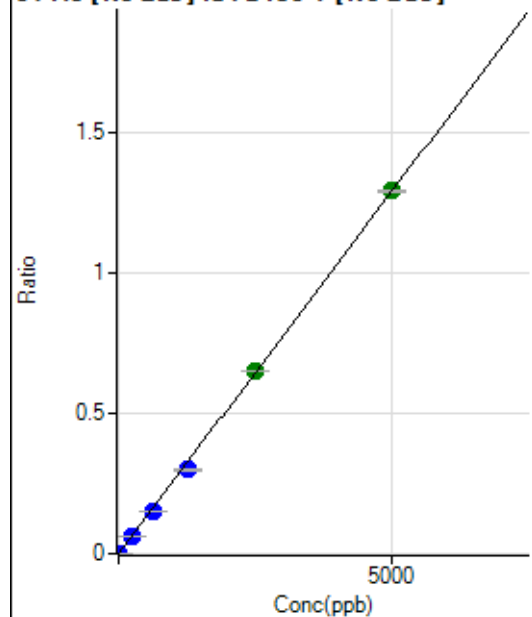
$$DL = 0.01359$$

$$BEC = 0.05521$$

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	205.56	0.0000	P	18.8
2	☐	5.000	4.674	12783.77	0.0012	P	1.1
3	☐	250.000	235.823	632738.51	0.0607	P	1.4
4	☐	625.000	591.189	1580020.52	0.1521	P	1.1
5	☐	1250.000	1160.188	3116904.80	0.2986	P	1.2
6	☐	2500.000	2524.911	6736882.27	0.6497	A	0.5
7	☐	5000.000	5014.933	13222238.75	1.2904	A	0.9
8	☐			5851.34	0.0006	P	3.4

$$y = 2.5731E-004 * x + 1.9978E-005$$

R = 0.9998

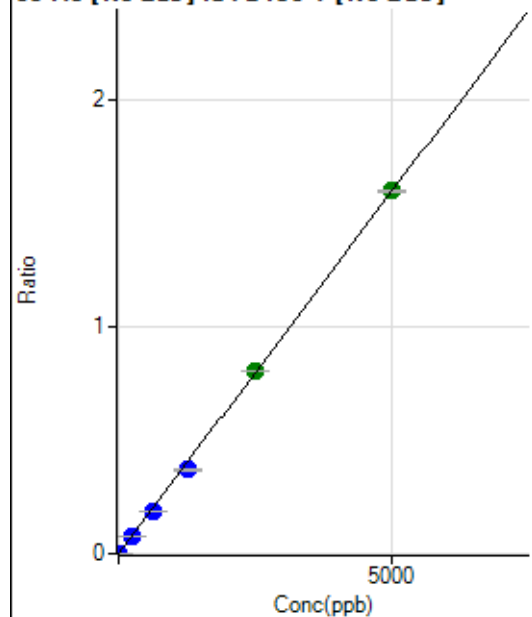
DL = 0.04389

BEC = 0.07764

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	41.67	0.0000	P	19.4
2	☐	5.000	4.765	15936.97	0.0015	P	2.1
3	☐	250.000	236.321	786030.40	0.0754	P	1.3
4	☐	625.000	591.814	1961052.54	0.1888	P	0.7
5	☐	1250.000	1161.787	3870030.47	0.3707	P	1.1
6	☐	2500.000	2526.437	8358346.80	0.8061	A	0.7
7	☐	5000.000	5013.668	16391190.29	1.5997	A	0.3
8	☐			7441.01	0.0008	P	3.2

$$y = 3.1906E-004 * x + 4.0433E-006$$

R = 0.9998

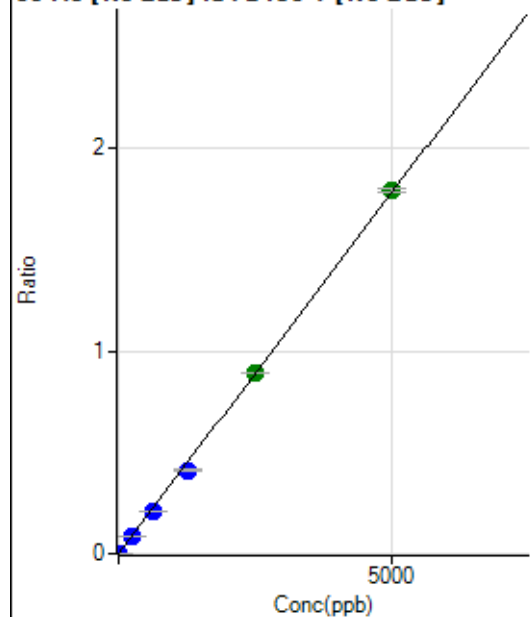
DL = 0.007372

BEC = 0.01267

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	138.89	0.0000	P	29.3
2	☐	5.000	4.852	18189.75	0.0017	P	2.4
3	☐	250.000	235.147	872121.66	0.0837	P	1.1
4	☐	625.000	585.650	2163792.26	0.2083	P	0.3
5	☐	1250.000	1158.240	4301773.06	0.4120	P	1.0
6	☐	2500.000	2502.662	9231564.09	0.8903	A	0.8
7	☐	5000.000	5027.271	18324360.82	1.7884	A	0.9
8	☐			9117.05	0.0009	P	4.6

$$y = 3.5573\text{E-}004 * x + 1.3479\text{E-}005$$

$$R = 0.9998$$

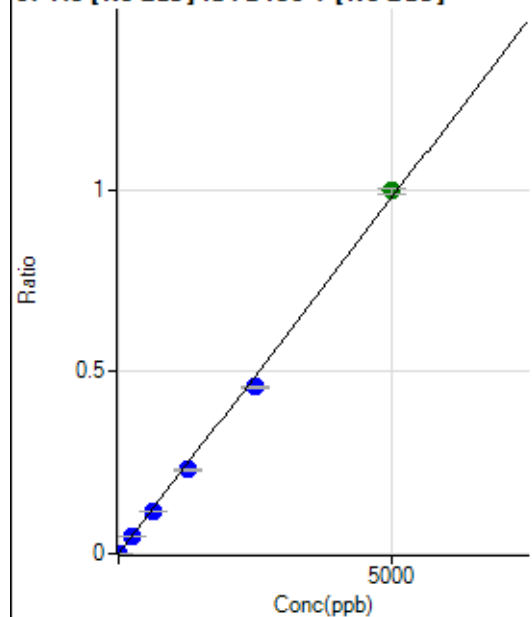
$$DL = 0.0333$$

$$BEC = 0.03789$$

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	22.22	0.0000	P	56.9
2	☐	5.000	4.891	10017.66	0.0010	P	3.2
3	☐	250.000	240.135	489209.56	0.0469	P	1.0
4	☐	625.000	598.900	1215474.05	0.1170	P	0.5
5	☐	1250.000	1181.196	2409895.58	0.2308	P	0.9
6	☐	2500.000	2343.166	4748014.17	0.4579	P	0.7
7	☐	5000.000	5099.374	10210340.16	0.9965	A	1.4
8	☐			4634.20	0.0005	P	5.4

$$y = 1.9542\text{E-}004 * x + 2.1540\text{E-}006$$

$$R = 0.9992$$

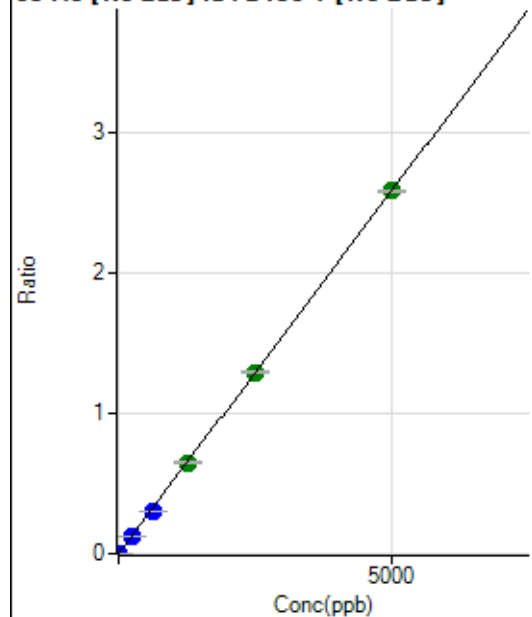
$$DL = 0.01881$$

$$BEC = 0.01102$$

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	97.23	0.0000	P	46.5
2	☐	5.000	4.800	25982.53	0.0025	P	1.0
3	☐	250.000	235.884	1268167.87	0.1217	P	1.5
4	☐	625.000	587.247	3145251.35	0.3029	P	1.1
5	☐	1250.000	1258.745	6777375.89	0.6492	A	1.4
6	☐	2500.000	2502.351	13381472.44	1.2905	A	1.2
7	☐	5000.000	5002.063	26431982.88	2.5796	A	0.7
8	☐			11771.82	0.0012	P	6.7

$$y = 5.1571\text{E-}004 * x + 9.4226\text{E-}006$$

$$R = 1.0000$$

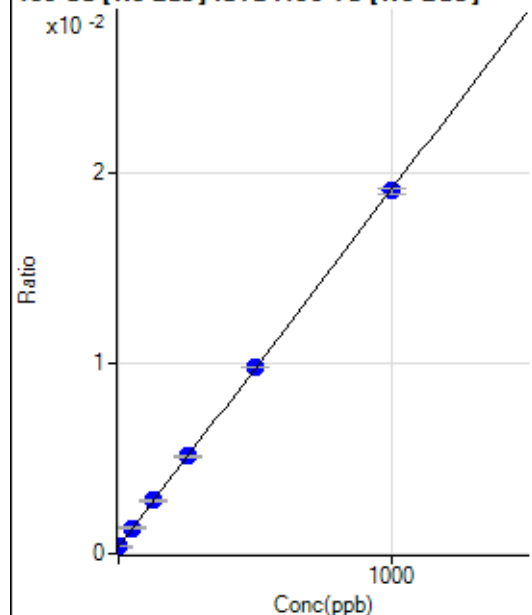
$$DL = 0.02547$$

$$BEC = 0.01827$$

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	3186.54	0.0004	P	4.5
2	☐	1.000	1.733	3558.86	0.0004	P	8.7
3	☐	50.000	52.657	12308.45	0.0013	P	3.4
4	☐	125.000	130.023	25762.77	0.0028	P	2.3
5	☐	250.000	254.245	47716.52	0.0051	P	1.5
6	☐	500.000	503.688	90940.16	0.0098	P	0.6
7	☐	1000.000	996.333	174224.17	0.0191	P	1.6
8	☐			3406.07	0.0004	P	3.9

$$y = 1.8765\text{E-}005 * x + 3.5483\text{E-}004$$

$$R = 1.0000$$

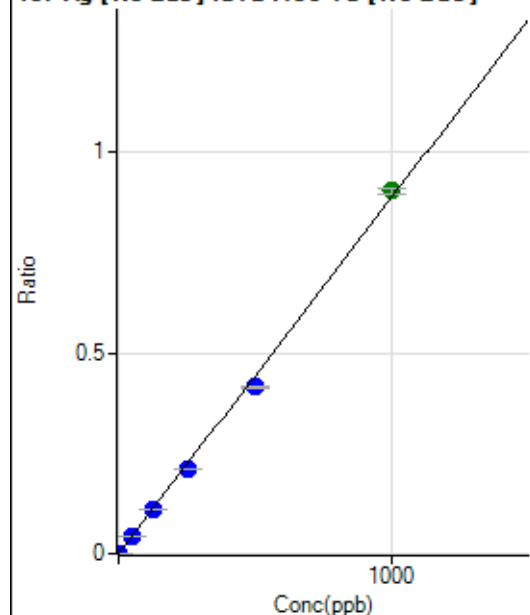
$$DL = 2.58$$

$$BEC = 18.91$$

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	77.78	0.0000	P	17.3
2	☐	1.000	0.976	8041.39	0.0009	P	2.1
3	☐	50.000	49.703	404613.61	0.0441	P	2.1
4	☐	125.000	122.430	1002278.79	0.1087	P	0.3
5	☐	250.000	239.437	1979338.13	0.2126	P	0.5
6	☐	500.000	467.881	3852780.51	0.4155	P	0.6
7	☐	1000.000	1019.036	8275264.16	0.9049	A	1.4
8	☐			3497.74	0.0004	P	5.8

$$y = 8.8794\text{E-}004 * x + 8.6691\text{E-}006$$

$$R = 0.9992$$

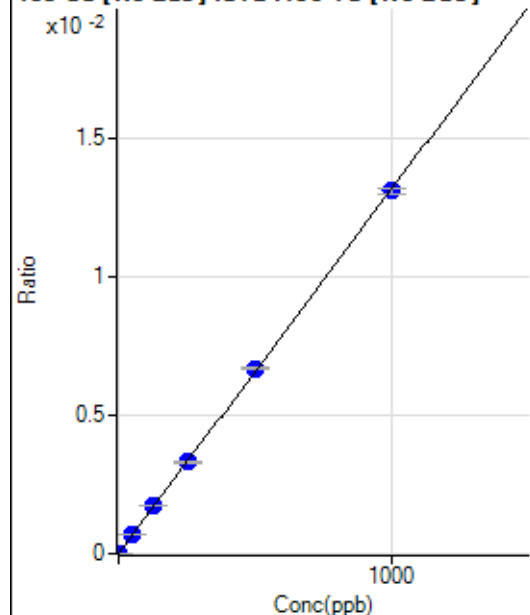
$$DL = 0.00508$$

$$BEC = 0.009763$$

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	23.61	0.0000	P	35.7
2	☐	1.000	1.194	168.06	0.0000	P	40.2
3	☐	50.000	53.250	6443.20	0.0007	P	4.7
4	☐	125.000	130.750	15879.86	0.0017	P	1.3
5	☐	250.000	251.554	30829.32	0.0033	P	2.5
6	☐	500.000	506.976	61867.06	0.0067	P	0.8
7	☐	1000.000	995.242	119752.71	0.0131	P	1.6
8	☐			144.45	0.0000	P	7.9

$$y = 1.3154\text{E-}005 * x + 2.6221\text{E-}006$$

$$R = 1.0000$$

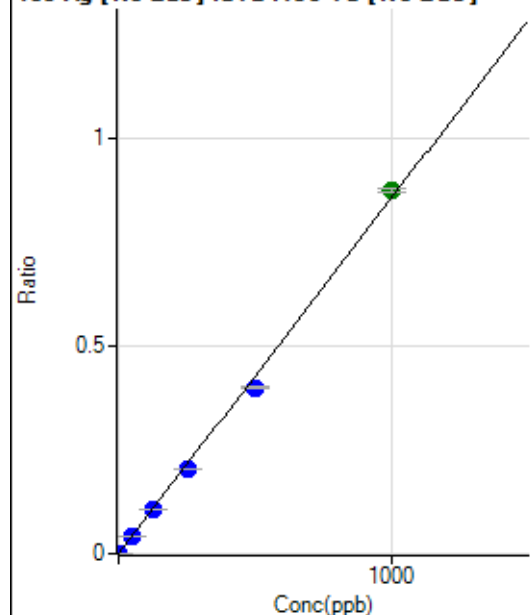
$$DL = 0.2132$$

$$BEC = 0.1993$$

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	16.66	0.0000	P	87.4
2	☐	1.000	1.012	7966.33	0.0009	P	2.2
3	☐	50.000	49.892	391010.47	0.0427	P	2.1
4	☐	125.000	122.777	967739.75	0.1050	P	0.9
5	☐	250.000	237.629	1891403.51	0.2032	P	0.8
6	☐	500.000	467.020	3702849.95	0.3993	P	0.5
7	☐	1000.000	1019.866	7974788.03	0.8720	A	0.9
8	☐			3333.82	0.0004	P	3.6

$$y = 8.5498\text{E-}004 * x + 1.8639\text{E-}006$$

$$R = 0.9991$$

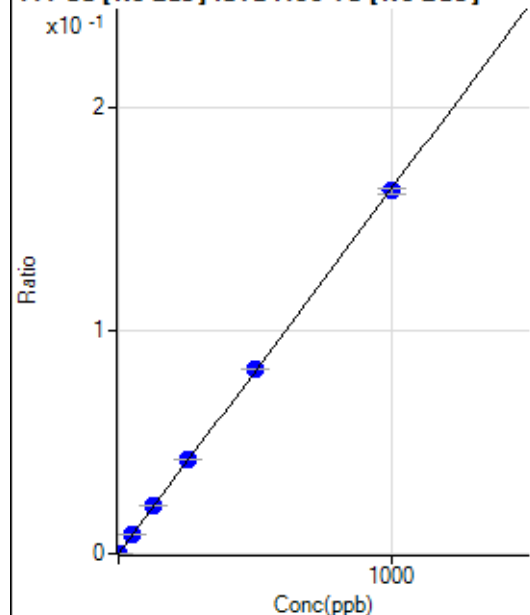
$$DL = 0.005718$$

$$BEC = 0.00218$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	306.29	0.0000	P	7.6
2	☐	1.000	0.963	1757.78	0.0002	P	3.2
3	☐	50.000	53.076	79758.73	0.0087	P	2.5
4	☐	125.000	130.477	196749.74	0.0213	P	0.2
5	☐	250.000	255.967	389467.54	0.0418	P	0.3
6	☐	500.000	507.107	768280.93	0.0828	P	0.5
7	☐	1000.000	994.116	1485032.62	0.1624	P	1.4
8	☐			1008.97	0.0001	P	3.1

$$y = 1.6331\text{E-}004 * x + 3.4113\text{E-}005$$

$$R = 0.9999$$

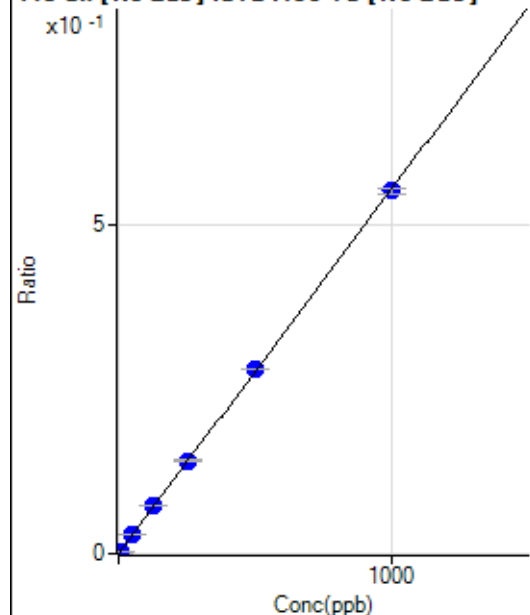
$$DL = 0.04762$$

$$BEC = 0.2089$$

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	688.92	0.0001	P	5.8
2	☐	5.000	5.232	27349.25	0.0030	P	2.1
3	☐	50.000	52.770	268933.58	0.0293	P	2.2
4	☐	125.000	130.099	665788.44	0.0722	P	0.7
5	☐	250.000	255.168	1317988.39	0.1416	P	0.9
6	☐	500.000	505.253	2598922.78	0.2803	P	0.3
7	☐	1000.000	995.305	5048132.79	0.5520	P	1.9
8	☐			3897.88	0.0005	P	3.5

$$y = 5.5453\text{E-}004 * x + 7.6728\text{E-}005$$

$$R = 1.0000$$

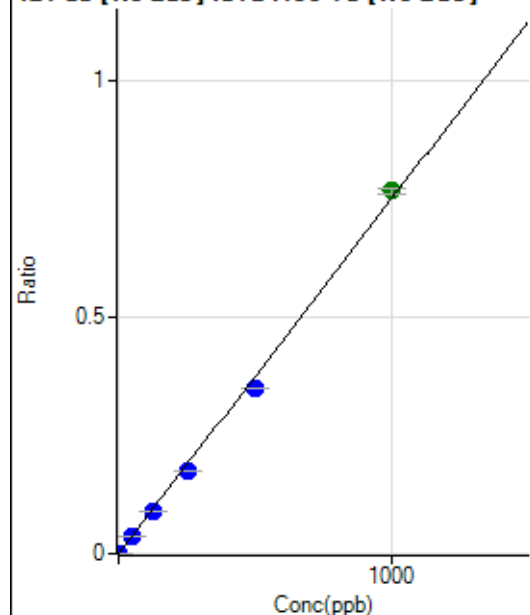
$$DL = 0.02421$$

$$BEC = 0.1384$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	91.67	0.0000	P	18.7
2	☐	2.000	1.934	13395.59	0.0015	P	1.2
3	☐	50.000	48.065	329983.38	0.0360	P	2.2
4	☐	125.000	119.100	822248.34	0.0892	P	0.5
5	☐	250.000	233.367	1626857.92	0.1748	P	0.6
6	☐	500.000	464.365	3224593.91	0.3477	P	0.4
7	☐	1000.000	1022.810	7004182.36	0.7659	A	1.5
8	☐			4770.39	0.0006	P	7.0

$$y = 7.4878\text{E-}004 * x + 1.0214\text{E-}005$$

$$R = 0.9989$$

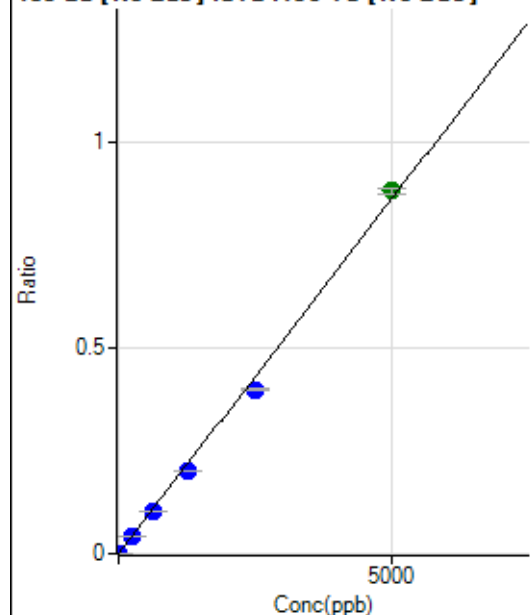
$$DL = 0.007669$$

$$BEC = 0.01364$$

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	41.67	0.0000	P	39.1
2	☐	10.000	10.045	15915.07	0.0017	P	3.7
3	☐	250.000	240.094	378725.43	0.0413	P	2.1
4	☐	625.000	593.453	941450.18	0.1021	P	0.2
5	☐	1250.000	1168.292	1871518.62	0.2010	P	0.8
6	☐	2500.000	2313.423	3691553.30	0.3981	P	1.0
7	☐	5000.000	5118.154	8054274.05	0.8807	A	1.4
8	☐			3928.43	0.0005	P	1.5

$$y = 1.7207\text{E-}004 * x + 4.6265\text{E-}006$$

$$R = 0.9988$$

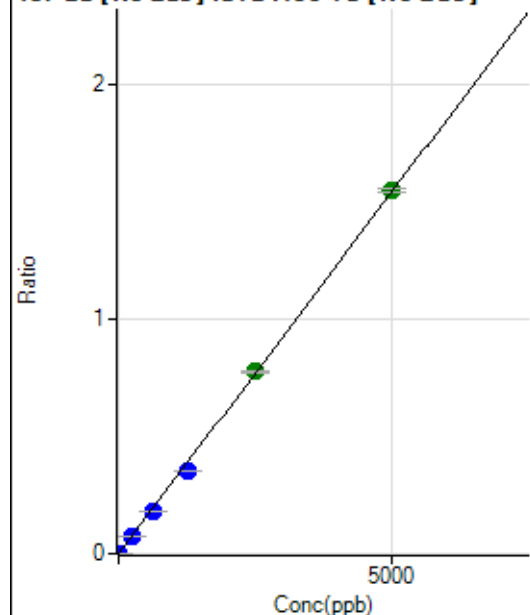
$$DL = 0.0315$$

$$BEC = 0.02689$$

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	58.33	0.0000	P	27.6
2	☐	10.000	9.587	27140.99	0.0030	P	2.0
3	☐	250.000	235.397	663761.94	0.0724	P	2.4
4	☐	625.000	583.504	1654791.15	0.1795	P	0.3
5	☐	1250.000	1140.280	3265456.56	0.3508	P	1.0
6	☐	2500.000	2518.280	7183768.91	0.7747	A	0.8
7	☐	5000.000	5024.208	14134745.63	1.5455	A	0.9
8	☐			7057.51	0.0008	P	3.2

$$y = 3.0761\text{E-}004 * x + 6.4822\text{E-}006$$

$$R = 0.9997$$

$$DL = 0.01744$$

$$BEC = 0.02107$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

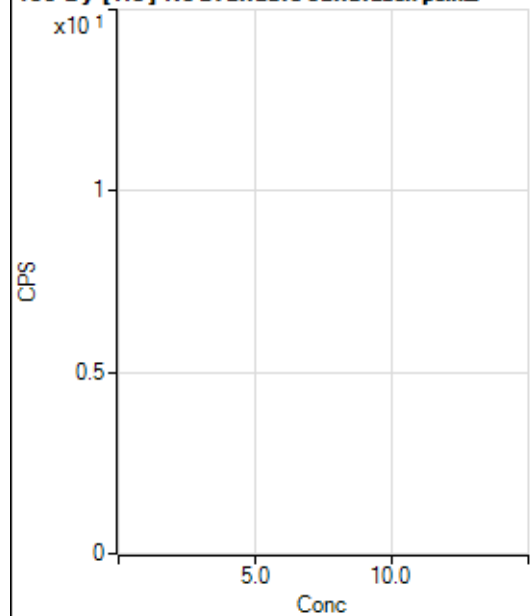
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			0.00		P	
3	☐			22.22		P	75.5
4	☐			57.78		P	46.6
5	☐			117.78		P	13.1
6	☐			240.01		P	4.8
7	☐			455.57		P	13.2
8	☐			46.67		P	14.3

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			2.22		P	173.
3	☐			5.56		P	34.7
4	☐			11.11		P	34.6
5	☐			11.11		P	62.5
6	☐			30.00		P	22.2
7	☐			62.22		P	8.2
8	☐			30.00		P	11.1

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.78		P	173.
2	☐			5.56		P	173.
3	☐			19.45		P	24.7
4	☐			55.56		P	56.8
5	☐			147.23		P	8.6
6	☐			186.12		P	9.3
7	☐			486.13		P	6.0
8	☐			1636.26		P	4.9

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	0.0
2	☐			3.33		P	0.0
3	☐			23.33		P	NaN
4	☐			44.44		P	18.9
5	☐			80.00		P	19.1
6	☐			143.34		P	14.1
7	☐			296.67		P	4.1
8	☐			1172.29		P	4.8

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

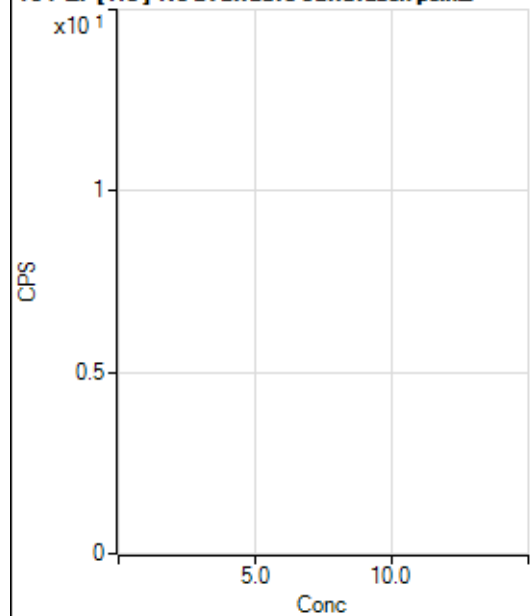
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			36.11		P	48.0
2	☐			36.11		P	70.5
3	☐			44.45		P	65.8
4	☐			108.34		P	13.3
5	☐			105.56		P	29.9
6	☐			222.23		P	24.1
7	☐			397.24		P	10.6
8	☐			2005.75		P	5.9

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			37.78		P	27.0
2	☐			44.45		P	15.6
3	☐			81.11		P	2.4
4	☐			103.34		P	16.8
5	☐			123.34		P	7.1
6	☐			174.45		P	21.0
7	☐			340.01		P	11.1
8	☐			1421.20		P	12.8

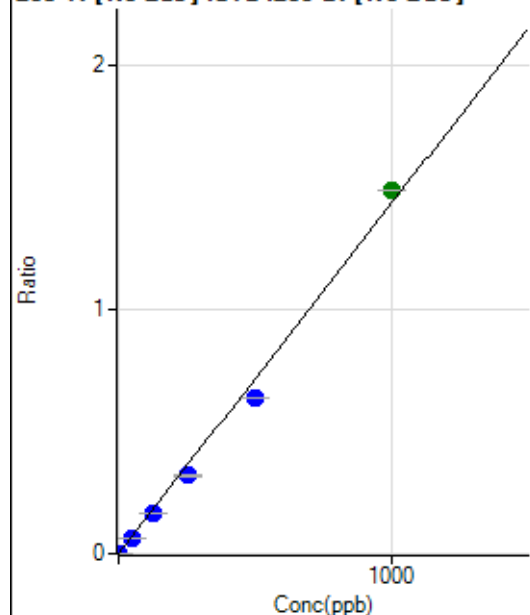
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			44.44		P	39.0
2	☐			63.89		P	71.8
3	☐			66.67		P	12.5
4	☐			75.00		P	19.3
5	☐			97.23		P	19.8
6	☐			72.22		P	43.7
7	☐			166.67		P	22.9
8	☐			297.23		P	12.6

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			36.67		P	24.1
2	☐			34.45		P	31.1
3	☐			41.11		P	28.5
4	☐			44.45		P	15.6
5	☐			46.67		P	14.3
6	☐			66.67		P	30.0
7	☐			86.67		P	3.8
8	☐			196.67		P	4.5

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	563.92	0.0001	P	14.5
2	☐	1.000	0.929	7777.45	0.0014	P	4.5
3	☐	50.000	45.205	349789.32	0.0649	P	1.6
4	☐	125.000	113.146	874970.68	0.1624	P	0.4
5	☐	250.000	222.542	1735523.15	0.3192	P	0.8
6	☐	500.000	445.425	3435991.35	0.6389	P	0.6
7	☐	1000.000	1035.873	7767023.35	1.4856	A	0.2
8	☐			4500.88	0.0010	P	5.6

$$y = 0.0014 * x + 1.0610E-004$$

$$R = 0.9975$$

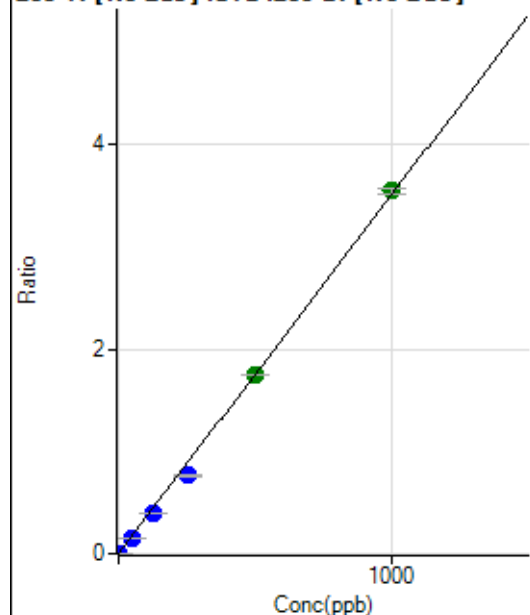
$$DL = 0.03213$$

$$BEC = 0.07399$$

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	1147.30	0.0002	P	9.5
2	☐	1.000	0.903	18287.93	0.0034	P	0.6
3	☐	50.000	44.560	842392.13	0.1564	P	0.8
4	☐	125.000	110.142	2081184.70	0.3862	P	0.6
5	☐	250.000	217.616	4147207.25	0.7628	P	0.6
6	☐	500.000	498.322	9393309.76	1.7466	A	0.7
7	☐	1000.000	1011.064	18525355.63	3.5435	A	1.6
8	☐			10699.05	0.0023	P	11.2

$$y = 0.0035 * x + 2.1571E-004$$

$$R = 0.9994$$

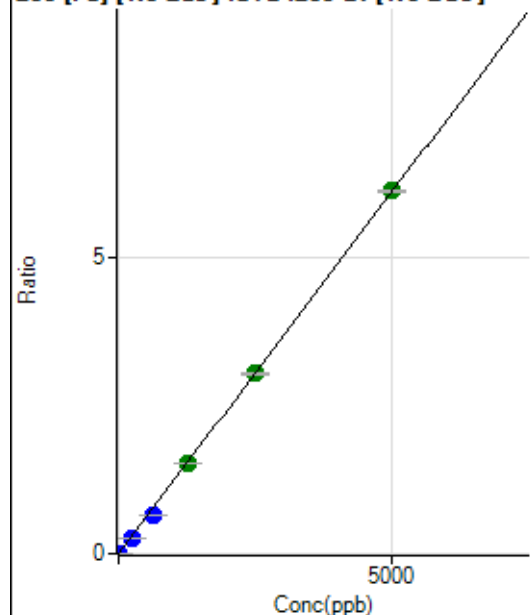
$$DL = 0.01758$$

$$BEC = 0.06155$$

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	883.38	0.0002	P	15.6
2	☐	1.000	0.912	6925.99	0.0013	P	2.8
3	☐	250.000	216.636	1426336.08	0.2648	P	1.2
4	☐	625.000	539.274	3550453.84	0.6589	P	0.5
5	☐	1250.000	1242.742	8253324.61	1.5181	A	0.5
6	☐	2500.000	2488.737	16348786.82	3.0400	A	0.8
7	☐	5000.000	5019.830	32056056.27	6.1316	A	0.8
8	☐			32170.43	0.0068	P	0.3

$$y = 0.0012 * x + 1.6605E-004$$

$$R = 0.9999$$

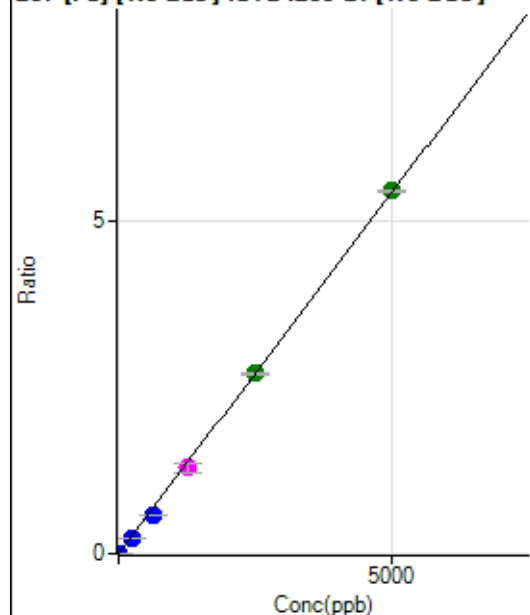
$$DL = 0.06367$$

$$BEC = 0.1359$$

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	788.93	0.0001	P	13.7
2	☐	1.000	0.904	6088.52	0.0011	P	2.1
3	☐	250.000	217.043	1264955.32	0.2348	P	1.2
4	☐	625.000	538.138	3136231.12	0.5820	P	0.6
5	☐	1250.000	1188.016	6979977.24	1.2846	M	10.0
6	☐	2500.000	2495.447	14510905.76	2.6983	A	0.8
7	☐	5000.000	5030.278	28435072.86	5.4390	A	0.5
8	☐			29265.61	0.0062	P	1.0

$$y = 0.0011 * x + 1.4835E-004$$

$$R = 0.9998$$

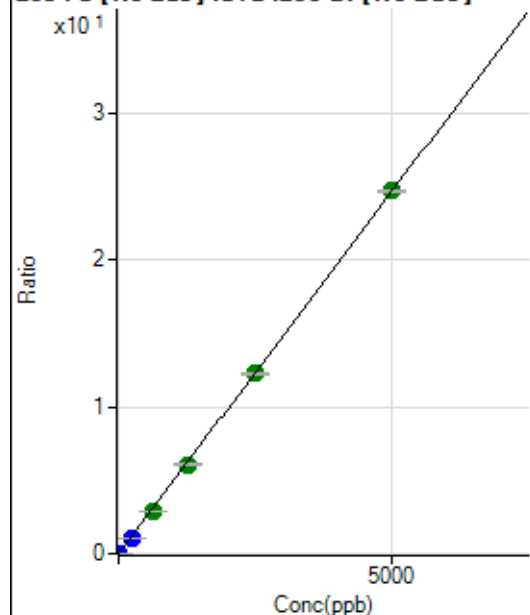
$$DL = 0.05619$$

$$BEC = 0.1372$$

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	3533.58	0.0007	P	1.7
2	☐	1.000	0.915	27967.55	0.0052	P	0.9
3	☐	250.000	215.480	5719107.79	1.0617	P	0.9
4	☐	625.000	582.762	15466518.72	2.8701	A	0.3
5	☐	1250.000	1229.733	32917556.75	6.0557	A	2.5
6	☐	2500.000	2492.571	66005316.29	12.2737	A	1.0
7	☐	5000.000	5015.787	129120821.8	24.6977	A	0.6
8	☐			131025.95	0.0278	P	0.2

$$y = 0.0049 * x + 6.6434E-004$$

$$R = 1.0000$$

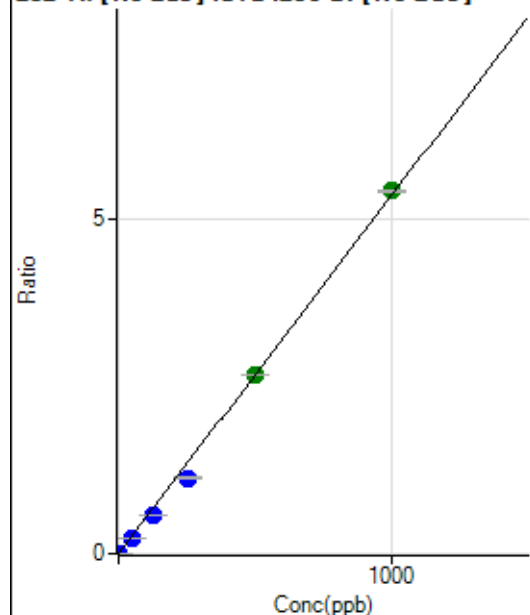
$$DL = 0.006968$$

$$BEC = 0.1349$$

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	164.82	0.0000	P	21.7
2	☐	1.000	0.000	170.37	0.0000	P	10.2
3	☐	50.000	42.628	1225937.73	0.2276	P	0.9
4	☐	125.000	107.045	3079341.04	0.5714	P	0.3
5	☐	250.000	211.833	6147552.91	1.1308	P	0.4
6	☐	500.000	498.429	14308763.98	2.6606	A	0.3
7	☐	1000.000	1012.941	28268233.04	5.4070	A	0.4
8	☐			8604.81	0.0018	P	5.5

$$y = 0.0053 * x + 3.0957E-005$$

$$R = 0.9992$$

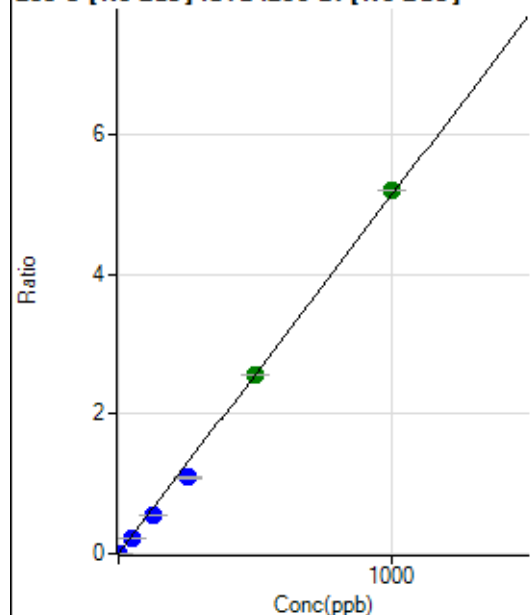
$$DL = 0.003771$$

$$BEC = 0.005799$$

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	50.00	0.0000	P	28.7
2	☐	1.000	0.847	23538.44	0.0044	P	2.0
3	☐	50.000	42.813	1182006.19	0.2194	P	0.9
4	☐	125.000	108.231	2989132.71	0.5547	P	0.5
5	☐	250.000	212.521	5920618.80	1.0892	P	1.6
6	☐	500.000	499.079	13755625.48	2.5577	A	0.4
7	☐	1000.000	1012.286	27122660.68	5.1879	A	0.0
8	☐			7991.56	0.0017	P	1.8

$$y = 0.0051 * x + 9.3963E-006$$

$$R = 0.9992$$

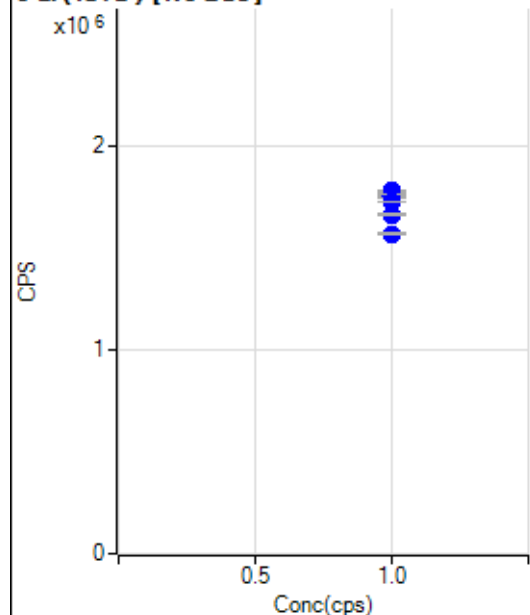
$$DL = 0.001579$$

$$BEC = 0.001833$$

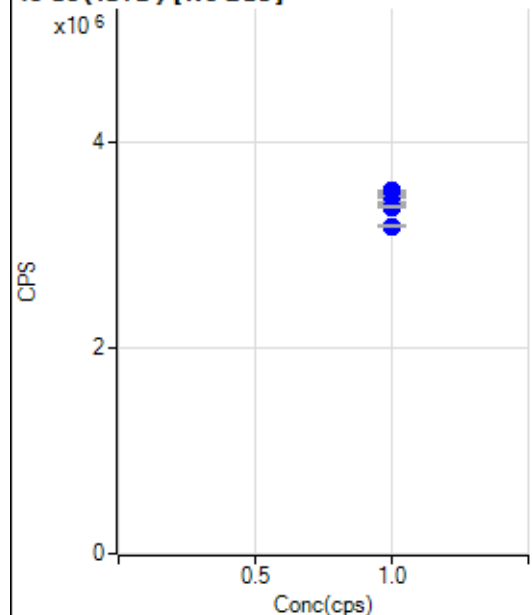
Weight: <None>

Min Conc: 0

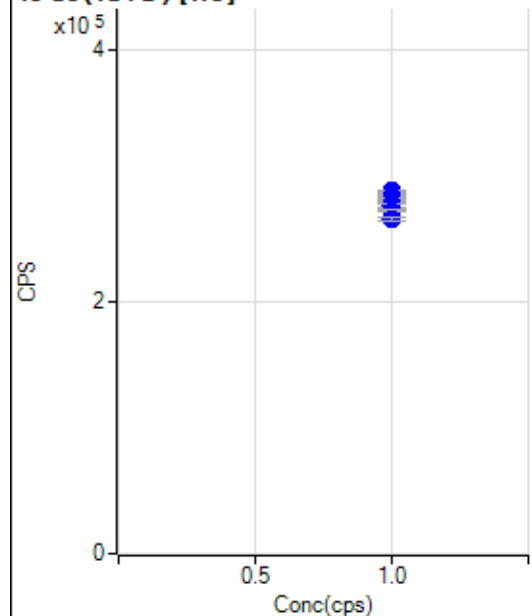
6 Li (ISTD) [No Gas]



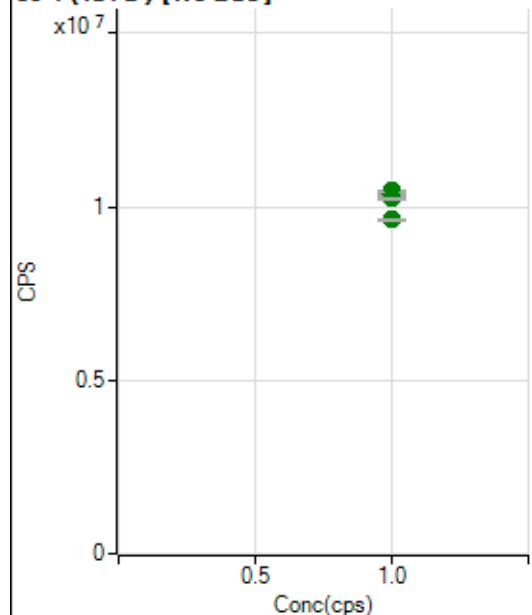
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		1756598.71		P	0.6
2	☐	1.000		1776975.63		P	0.5
3	☐	1.000		1773499.49		P	0.3
4	☐	1.000		1757798.98		P	0.6
5	☐	1.000		1751240.44		P	1.0
6	☐	1.000		1723417.11		P	0.2
7	☐	1.000		1660192.89		P	0.4
8	☐	1.000		1568071.84		P	0.3

45 Sc (ISTD) [No Gas]

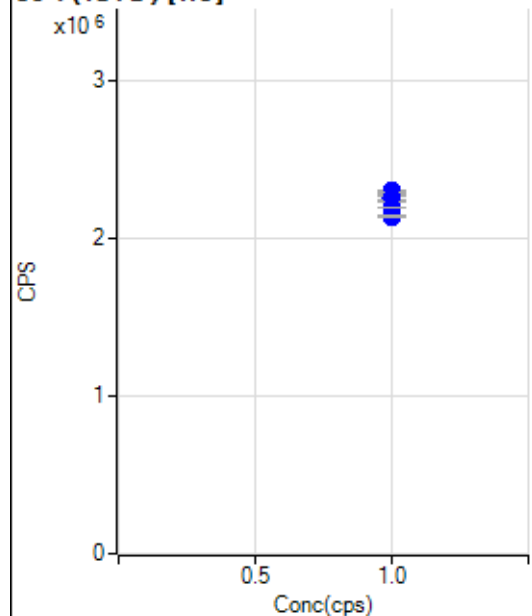
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3462356.51		P	0.3
2	☐	1.000		3521010.51		P	0.4
3	☐	1.000		3508310.02		P	0.3
4	☐	1.000		3486989.32		P	0.2
5	☐	1.000		3462631.41		P	0.4
6	☐	1.000		3408463.98		P	0.4
7	☐	1.000		3363207.69		P	0.5
8	☐	1.000		3179615.44		P	0.9

45 Sc (ISTD) [He]

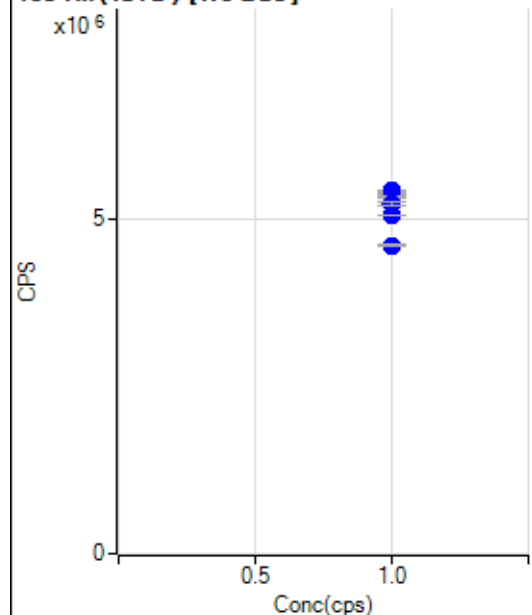
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		284775.64		P	0.6
2	☐	1.000		288509.88		P	0.8
3	☐	1.000		285094.78		P	0.6
4	☐	1.000		282254.51		P	0.8
5	☐	1.000		278896.06		P	0.6
6	☐	1.000		276871.48		P	1.2
7	☐	1.000		272445.52		P	0.4
8	☐	1.000		265825.43		P	1.2

89 Y (ISTD) [No Gas]

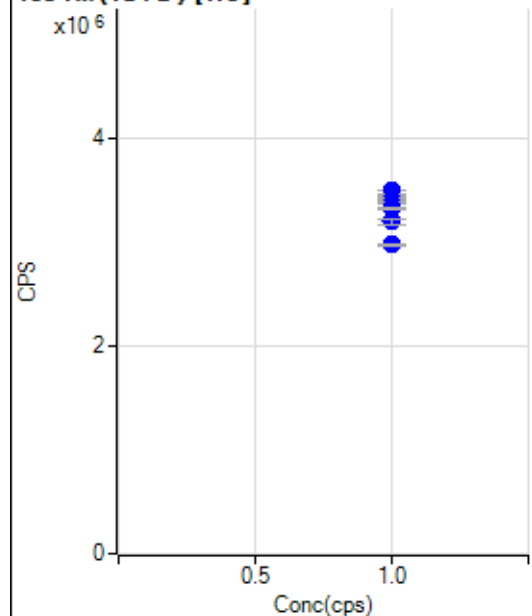
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10297283.18		A	0.7
2	☐	1.000		10456189.57		A	0.3
3	☐	1.000		10424688.80		A	0.7
4	☐	1.000		10385525.75		A	0.6
5	☐	1.000		10440463.53		A	0.4
6	☐	1.000		10369191.16		A	0.7
7	☐	1.000		10246545.89		A	0.4
8	☐	1.000		9619788.26		A	0.3

89 Y (ISTD) [He]

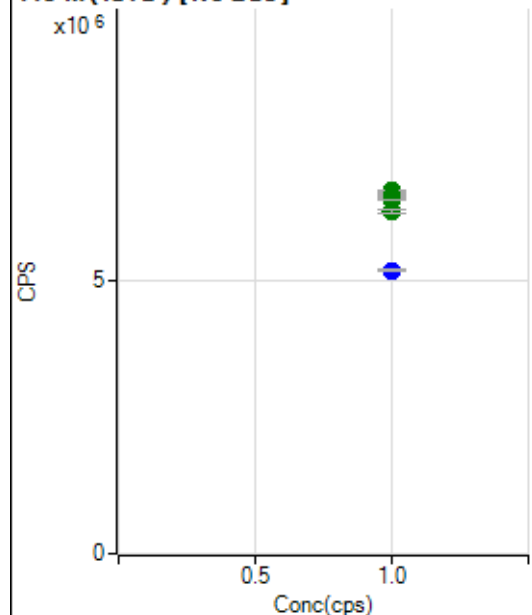
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2274741.96		P	0.1
2	☐	1.000		2302573.54		P	0.5
3	☐	1.000		2283611.62		P	0.6
4	☐	1.000		2258956.94		P	0.7
5	☐	1.000		2242234.03		P	0.4
6	☐	1.000		2232078.51		P	0.3
7	☐	1.000		2197137.48		P	0.3
8	☐	1.000		2140620.11		P	0.5

103 Rh (ISTD) [No Gas]

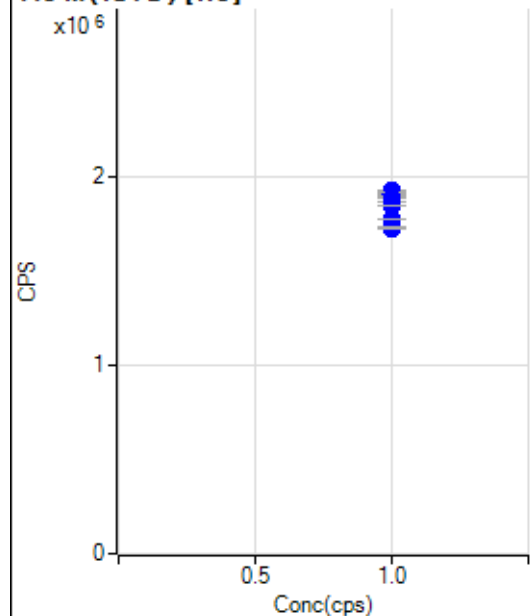
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5349034.64		P	0.7
2	☐	1.000		5417915.89		P	0.2
3	☐	1.000		5398747.84		P	0.3
4	☐	1.000		5331221.45		P	0.3
5	☐	1.000		5336840.02		P	0.7
6	☐	1.000		5226880.65		P	0.7
7	☐	1.000		5052833.26		P	0.4
8	☐	1.000		4600092.01		P	0.8

103 Rh (ISTD) [He]

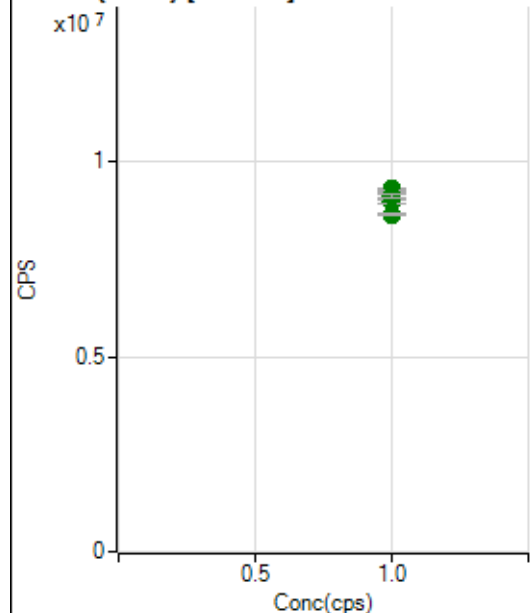
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3455056.75		P	0.3
2	☐	1.000		3497669.01		P	0.1
3	☐	1.000		3460369.53		P	0.9
4	☐	1.000		3419548.01		P	0.3
5	☐	1.000		3383259.22		P	0.1
6	☐	1.000		3330888.98		P	0.6
7	☐	1.000		3200929.57		P	1.4
8	☐	1.000		2983668.19		P	0.6

115 In (ISTD) [No Gas]

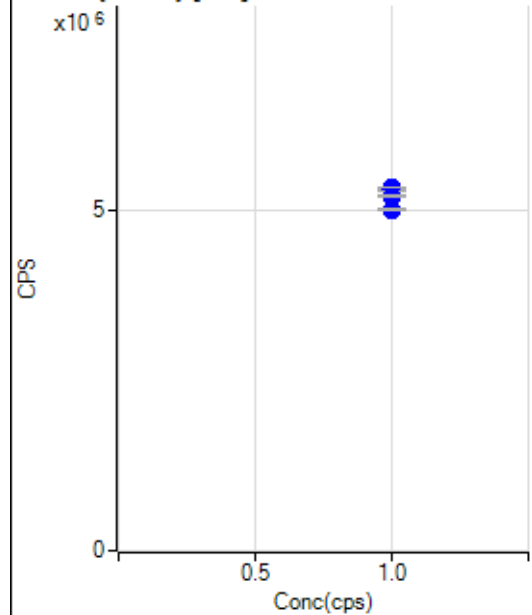
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6528352.26		A	0.8
2	☐	1.000		6656830.99		A	0.7
3	☐	1.000		6576297.78		A	0.8
4	☐	1.000		6527736.59		A	0.9
5	☐	1.000		6525559.98		A	0.2
6	☐	1.000		6490095.53		A	0.2
7	☐	1.000		6291018.17		A	1.3
8	☐	1.000		5197013.41		P	0.7

115 In (ISTD) [He]

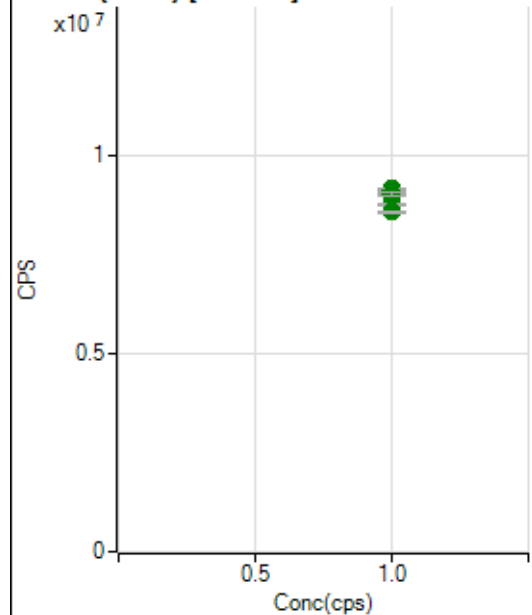
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1898193.66		P	0.3
2	☐	1.000		1921844.09		P	0.4
3	☐	1.000		1904366.73		P	0.6
4	☐	1.000		1883148.03		P	0.2
5	☐	1.000		1866692.66		P	0.2
6	☐	1.000		1842867.60		P	0.4
7	☐	1.000		1772122.32		P	0.4
8	☐	1.000		1726382.45		P	0.8

159 Tb (ISTD) [No Gas]

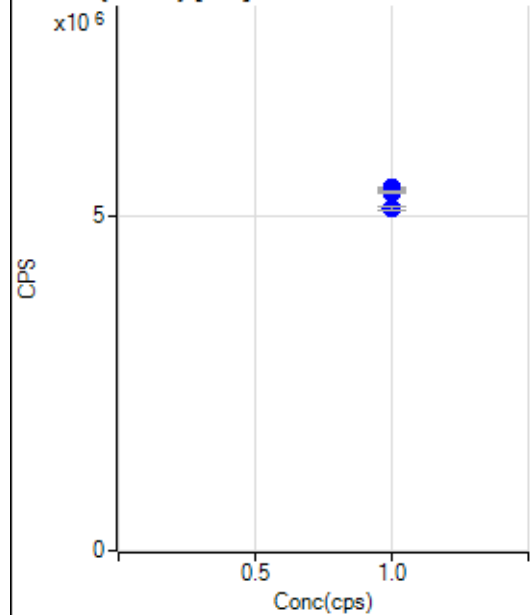
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8982243.76		A	1.0
2	☐	1.000		9184327.92		A	0.7
3	☐	1.000		9168085.14		A	1.5
4	☐	1.000		9219054.73		A	0.4
5	☐	1.000		9309588.82		A	0.2
6	☐	1.000		9273537.71		A	0.4
7	☐	1.000		9146358.68		A	1.1
8	☐	1.000		8642532.58		A	0.4

159 Tb (ISTD) [He]

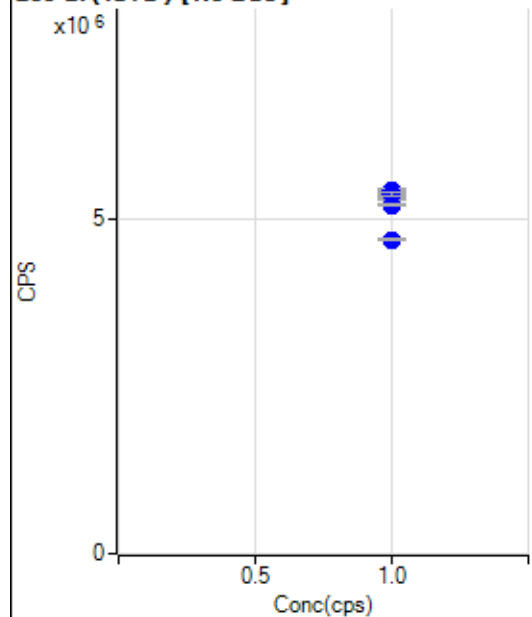
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5304477.52		P	0.1
2	☐	1.000		5343312.00		P	0.7
3	☐	1.000		5323931.52		P	0.5
4	☐	1.000		5334502.45		P	0.7
5	☐	1.000		5336758.05		P	0.5
6	☐	1.000		5325994.12		P	0.6
7	☐	1.000		5219479.12		P	0.4
8	☐	1.000		5015426.59		P	0.6

165 Ho (ISTD) [No Gas]

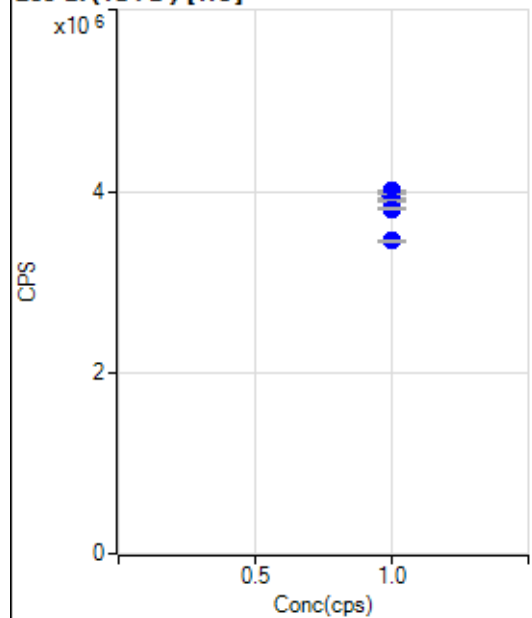
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8767407.65		A	0.5
2	☐	1.000		9020074.86		A	1.0
3	☐	1.000		9014983.20		A	0.7
4	☐	1.000		8990800.63		A	0.4
5	☐	1.000		9150943.20		A	0.4
6	☐	1.000		9097533.96		A	1.7
7	☐	1.000		9007496.88		A	1.1
8	☐	1.000		8564114.87		A	0.6

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5345369.68		P	0.1
2	☐	1.000		5394156.17		P	0.5
3	☐	1.000		5386962.39		P	0.8
4	☐	1.000		5407799.78		P	0.4
5	☐	1.000		5398381.21		P	0.8
6	☐	1.000		5380697.91		P	0.5
7	☐	1.000		5338617.52		P	0.6
8	☐	1.000		5099699.20		P	0.7

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5318897.70		P	0.8
2	☐	1.000		5410149.30		P	1.0
3	☐	1.000		5387001.79		P	0.2
4	☐	1.000		5388892.90		P	0.5
5	☐	1.000		5436553.81		P	1.1
6	☐	1.000		5378148.05		P	1.2
7	☐	1.000		5228097.98		P	0.3
8	☐	1.000		4708574.30		P	0.4

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3970255.46		P	0.2
2	☐	1.000		3993325.29		P	1.2
3	☐	1.000		4004597.40		P	0.8
4	☐	1.000		3973718.27		P	0.5
5	☐	1.000		3950819.32		P	0.7
6	☐	1.000		3894841.23		P	0.1
7	☐	1.000		3808965.78		P	0.7
8	☐	1.000		3457077.94		P	0.6

US EPA Tune Check Sample Report

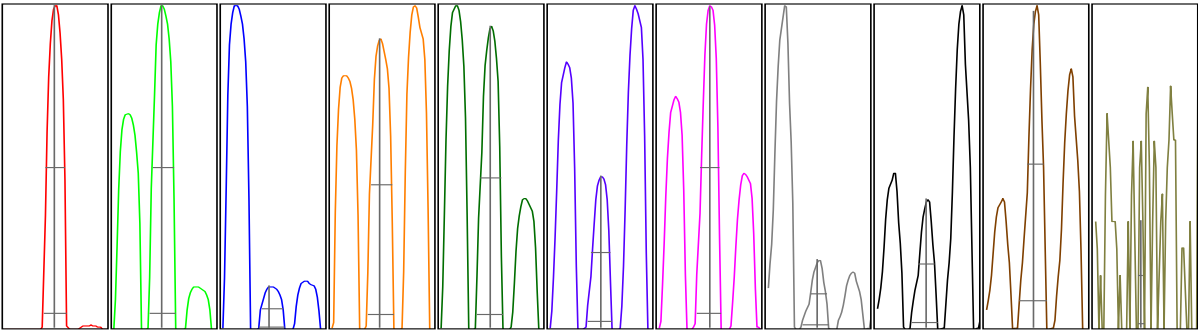
Batch Folder C:\Agilent\ICPMH\1\DATA\P7062421AMS.b
Report Comment
Instrument Name G8403A JP14410463

[No Gas]

Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)	RSD% (Flag)
9	5028	0.43	5.00	
24	60417	0.30	5.00	
25	7997	0.41	5.00	
26	9004	0.27	5.00	
59	12827	0.45	5.00	
113	7414	0.31	5.00	
115	21734	0.35	5.00	
206	11063	0.21	5.00	
207	9446	0.60	5.00	
208	22909	0.56	5.00	
220	0	49.74		

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
9	5003	5063	5031	5021	5025
24	60243	60440	60652	60519	60231
25	7963	8046	7973	7996	8006
26	8997	9045	8985	9005	8990
59	12769	12804	12863	12910	12791
113	7396	7389	7421	7446	7420
115	21859	21683	21735	21727	21667
206	11026	11066	11059	11077	11088
207	9443	9420	9382	9534	9453
208	22843	22829	22863	23139	22872
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	9394	9.00	8.9 - 9.1		0.689	0.900	
24	100976	23.95	23.9 - 24.1		0.779	0.900	
25	13230	24.90	24.9 - 25.1		0.742	0.900	
26	15109	25.95	25.9 - 26.1		0.783	0.900	
59	22853	59.00	58.9 - 59.1		0.776	0.900	
113	14305	113.05	112.9 - 113.1		0.731	0.900	
115	42062	115.05	114.9 - 115.1		0.731	0.900	
206	23234	206.00	205.9 - 206.1		0.776	0.900	
207	19461	207.00	206.9 - 207.1		0.771	0.900	
208	47489	207.95	207.9 - 208.1		0.778	0.900	
220	0	219.90	-		0.196		

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	0.68	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	10.0	V	Deflect	13.4	V
Extract 2	-155.0	V	Cell Entrance	-30	V	Plate Bias	-35	V
Omega Bias	-85	V	Cell Exit	-50	V			

Cell Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Use Gas	No		OctP Bias	-8.0	V	Energy Discrimination	5.0	V
He Flow	0.0	mL/min	OctP RF	180	V			

[He]

Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)
59	4756	0.34	
89	31622	0.69	
205	37743	0.62	

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
59	4748	4759	4754	4737	4780
89	31443	31530	31435	31774	31927
205	37949	37724	37360	37773	37912

Integration Time [sec] = 0.1

Tune Parameters

Plasma Paramters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
RF Power	1600	W	Carrier Gas	0.68	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	10.1	V	Deflect	1.8	V
Extract 2	-160.0	V	Cell Entrance	-40	V	Plate Bias	-60	V
Omega Bias	-90	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			