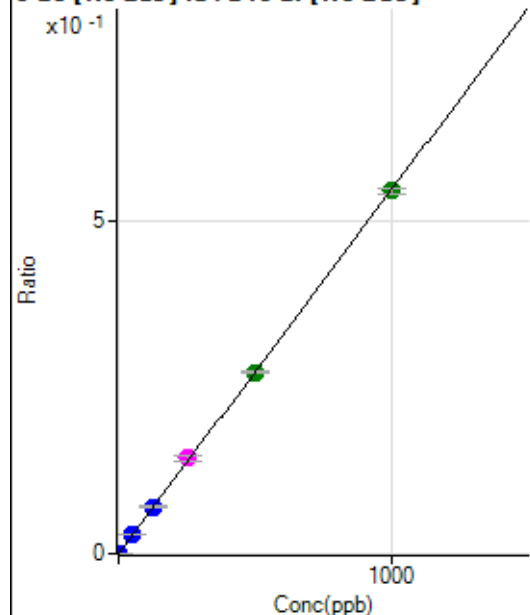


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8092821 MS.b\
Analysis File: P8092821 MS.batch.bin
DA Date-Time: 2021-09-28 23:41:26
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2021-09-28 21:10:01
2	005CALS.d	S02	2021-09-28 21:16:10
3	007CALS.d	S03	2021-09-28 21:22:46
4	008CALS.d	S04	2021-09-28 21:25:52
5	009CALS.d	S05	2021-09-28 21:28:55
6	010CALS.d	S06	2021-09-28 21:32:00
7	011CALS.d	S07	2021-09-28 21:35:04
8	012CALS.d	S08	2021-09-28 21:38:09

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	25.33	0.0000	P	18.2
2	☐	1.000	1.006	3933.09	0.0006	P	2.9
3	☐	50.000	50.850	197816.73	0.0278	P	2.4
4	☐	125.000	129.265	490199.87	0.0707	P	2.4
5	☐	250.000	261.902	972784.03	0.1432	M	6.2
6	☐	500.000	499.029	1882436.16	0.2728	A	0.5
7	☐	1000.000	996.935	3672222.85	0.5449	A	1.2
8	☐			391.93	0.0001	P	14.7

$$y = 5.4658\text{E-}004 * x + 3.5793\text{E-}006$$

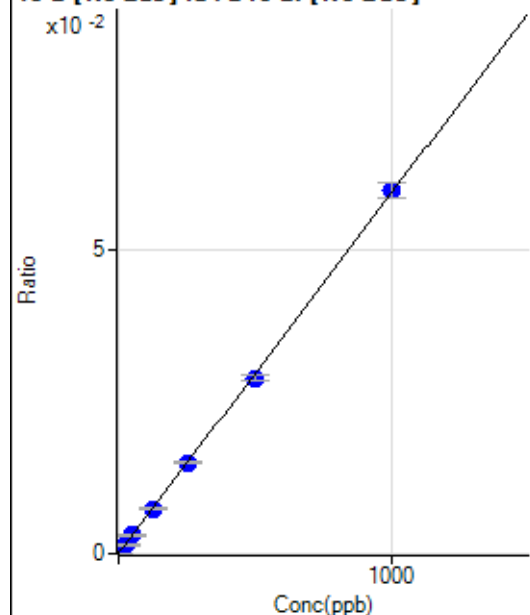
$$R = 0.9999$$

$$DL = 0.003584$$

$$BEC = 0.006549$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	384.60	0.0001	P	12.4
2	☐	25.000	23.571	10334.97	0.0015	P	4.9
3	☐	50.000	50.296	21652.33	0.0030	P	3.4
4	☐	125.000	124.378	51655.47	0.0074	P	2.9
5	☐	250.000	252.032	102186.74	0.0150	P	3.5
6	☐	500.000	486.662	199842.52	0.0290	P	3.3
7	☐	1000.000	1006.260	403071.71	0.0598	P	4.4
8	☐			32595.11	0.0050	P	9.8

$$y = 5.9396\text{E-}005 * x + 5.4356\text{E-}005$$

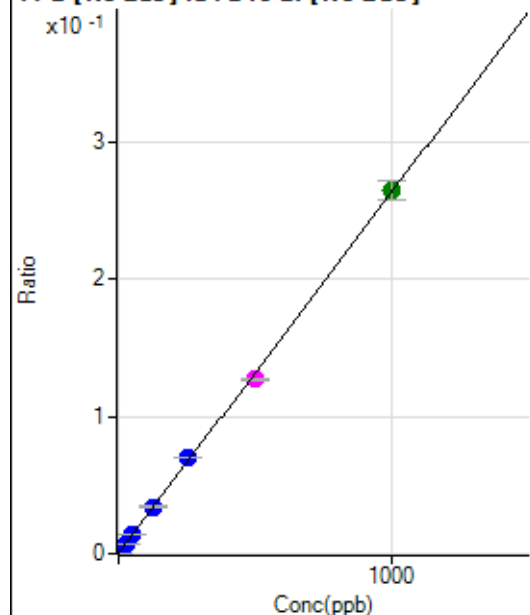
$$R = 0.9999$$

$$DL = 0.3396$$

$$BEC = 0.9151$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1700.44	0.0002	P	3.0
2	☐	25.000	24.912	48264.68	0.0068	P	4.6
3	☐	50.000	52.117	99294.46	0.0139	P	3.8
4	☐	125.000	129.625	238320.62	0.0343	P	2.5
5	☐	250.000	265.053	476087.94	0.0699	P	1.1
6	☐	500.000	482.410	877280.43	0.1271	M	0.5
7	☐	1000.000	1004.350	1781377.73	0.2644	A	5.3
8	☐			149393.10	0.0231	P	9.4

$$y = 2.6300E-004 * x + 2.4031E-004$$

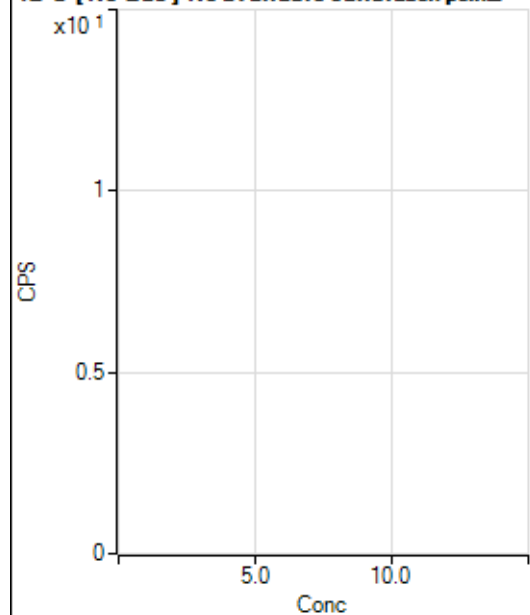
$$R = 0.9996$$

$$DL = 0.08149$$

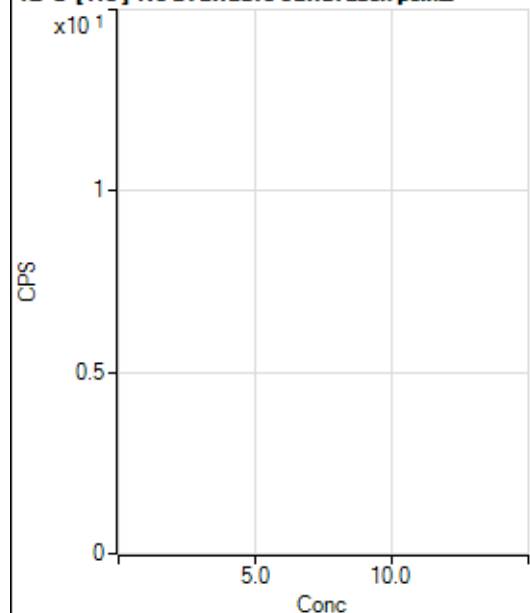
$$BEC = 0.9137$$

Weight: <None>

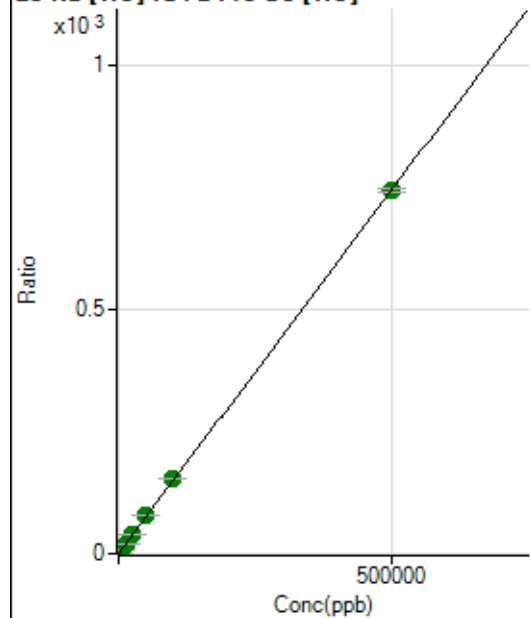
Min Conc: 0

12 C [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			7458122.13		A	1.9
2	☐			7001249.46		A	1.1
3	☐			7944373.01		A	2.0
4	☐			8430623.97		A	2.6
5	☐			8690459.92		A	1.0
6	☐			9392109.24		A	2.4
7	☐			10431624.02		A	4.0
8	☐			8411397.24		A	1.7

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			68992.97		P	1.3
2	☐			64901.86		P	1.1
3	☐			74394.20		P	0.9
4	☐			82260.87		P	1.2
5	☐			84275.24		P	0.6
6	☐			92638.67		P	0.7
7	☐			107002.50		P	0.7
8	☐			92831.97		P	0.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	30835.97	0.0838	P	1.8
2	☐	500.000	498.309	309624.96	0.8244	P	1.7
3	☐	5000.000	5312.195	2846962.56	7.9790	A	1.7
4	☐	12500.000	13104.409	6781490.52	19.5601	A	1.3
5	☐	25000.000	26894.955	13454924.61	40.0563	A	0.8
6	☐	50000.000	52401.667	26488702.85	77.9655	A	0.7
7	☐	100000.00	102283.32	53497916.47	152.1018	A	0.7
8	☐	500000.00	499190.19	272293936.6	742.0023	A	1.1

$$y = 0.0015 * x + 0.0838$$

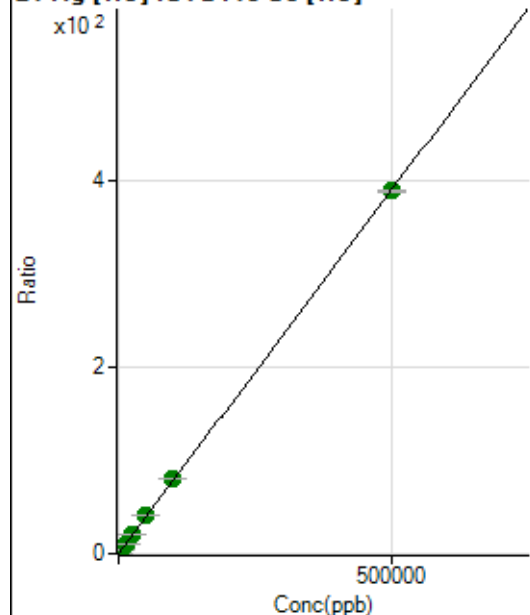
$$R = 1.0000$$

$$DL = 3.029$$

$$BEC = 56.37$$

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	952.83	0.0026	P	7.2
2	☐	500.000	496.255	146476.04	0.3900	P	2.0
3	☐	5000.000	5394.328	1503487.84	4.2137	A	0.4
4	☐	12500.000	13390.691	3624986.63	10.4560	A	1.3
5	☐	25000.000	27190.609	7130953.37	21.2289	A	0.7
6	☐	50000.000	52851.512	14018557.26	41.2610	A	1.0
7	☐	100000.00	103043.07	28294115.56	80.4430	A	0.7
8	☐	500000.00	498970.49	142945039.3	389.5230	A	0.6

$$y = 7.8065E-004 * x + 0.0026$$

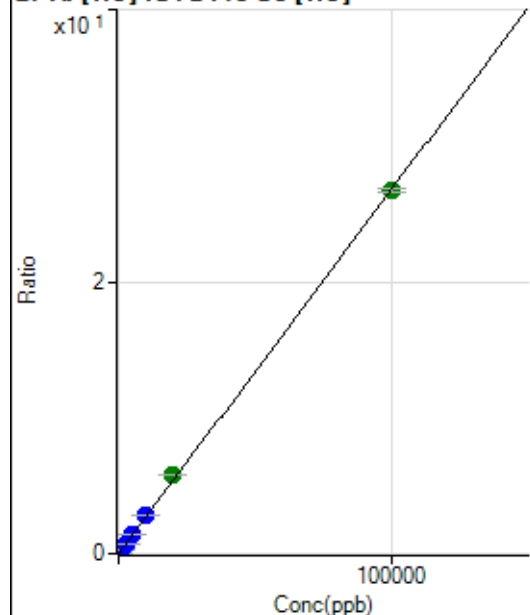
$$R = 1.0000$$

$$DL = 0.716$$

$$BEC = 3.316$$

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	200.40	0.0005	P	9.2
2	☐	20.000	21.642	2380.74	0.0063	P	1.4
3	☐	1000.000	1081.555	103503.23	0.2901	P	0.7
4	☐	2500.000	2716.885	252345.52	0.7279	P	0.8
5	☐	5000.000	5424.975	488009.75	1.4528	P	0.6
6	☐	10000.000	10497.136	954911.91	2.8107	P	0.9
7	☐	20000.000	21542.705	2028636.19	5.7676	A	1.3
8	☐	100000.00	99614.259	9785946.98	26.6675	A	1.2

$$y = 2.6770E-004 * x + 5.4400E-004$$

$$R = 0.9999$$

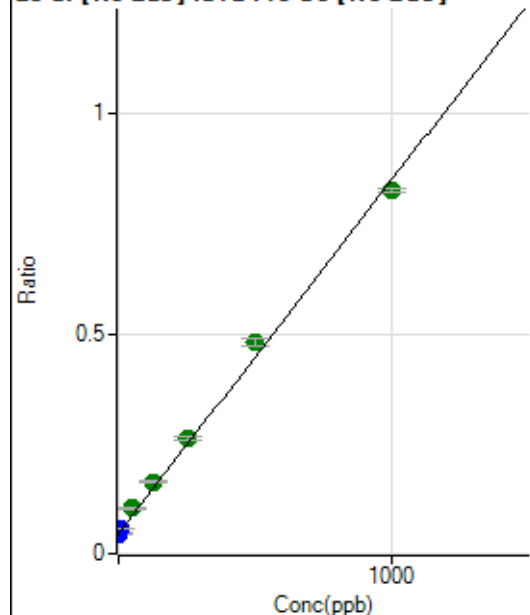
$$DL = 0.5602$$

$$BEC = 2.032$$

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	530219.36	0.0457	P	1.0
2	☐	10.000	11.728	647568.99	0.0551	P	1.1
3	☐	50.000	71.118	1180283.26	0.1027	A	3.9
4	☐	125.000	146.753	1801205.99	0.1634	A	1.0
5	☐	250.000	270.809	2859815.91	0.2630	A	3.8
6	☐	500.000	542.442	5333116.87	0.4810	A	4.2
7	☐	1000.000	969.785	9376054.98	0.8240	A	1.0
8	☐			1094276.35	0.0975	A	2.0

$$y = 8.0259\text{E-}004 * x + 0.0457$$

R = 0.9983

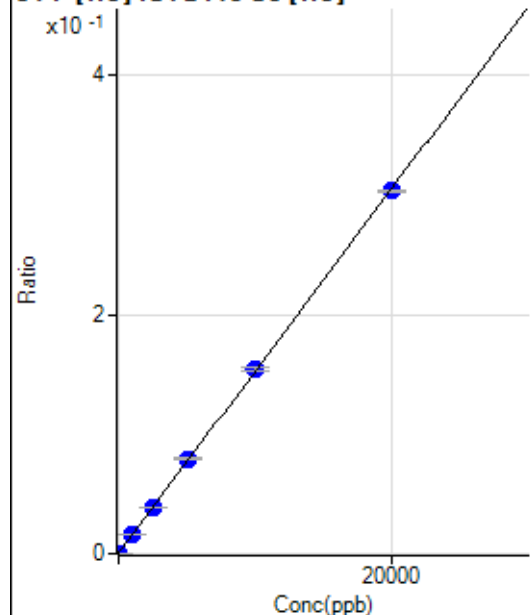
DL = 1.776

BEC = 56.9

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-0.506	125.00	0.0003	P	6.9
2	☐	0.000	0.506	133.34	0.0004	P	16.8
3	☐	1000.000	1004.051	5576.21	0.0156	P	3.8
4	☐	2500.000	2511.629	13373.10	0.0386	P	2.9
5	☐	5000.000	5196.408	26680.81	0.0794	P	1.8
6	☐	10000.000	10110.686	52398.12	0.1542	P	1.5
7	☐	20000.000	19893.899	106618.80	0.3031	P	0.6
8	☐			166.67	0.0005	P	26.7

$$y = 1.5220\text{E-}005 * x + 3.4739\text{E-}004$$

R = 0.9999

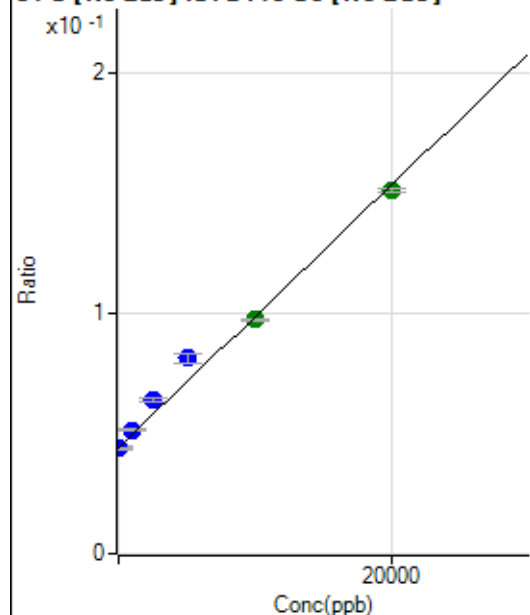
DL = 8.214

BEC = 22.83

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	40.425	514222.43	0.0443	P	1.4
2	☐	0.000	-40.425	515477.32	0.0438	P	1.9
3	☐	1000.000	1361.748	591860.63	0.0515	P	1.5
4	☐	2500.000	3604.560	702528.50	0.0638	P	1.9
5	☐	5000.000	6790.684	882014.58	0.0812	P	5.5
6	☐	10000.000	9740.092	1078729.46	0.0973	A	0.6
7	☐	20000.000	19526.125	1715033.31	0.1507	A	1.1
8	☐			428195.72	0.0382	P	1.5

$$y = 5.4623\text{E-}006 * x + 0.0441$$

$$R = 0.9944$$

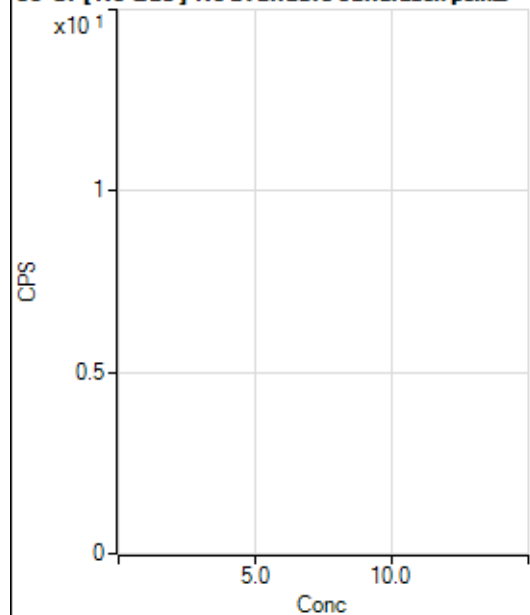
$$DL = 391.9$$

$$BEC = 8068$$

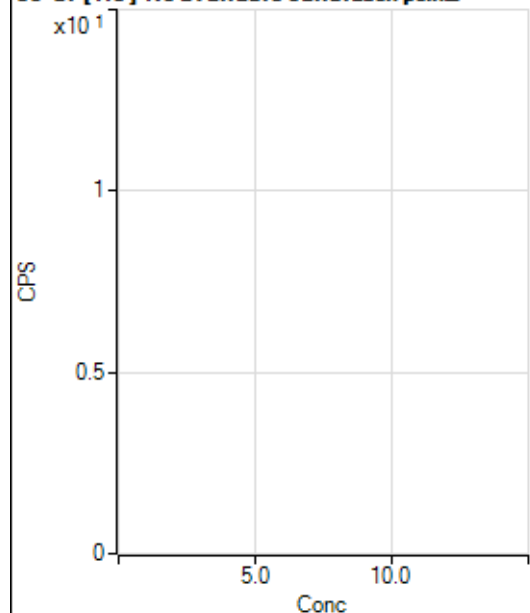
Weight: <None>

Min Conc: 0

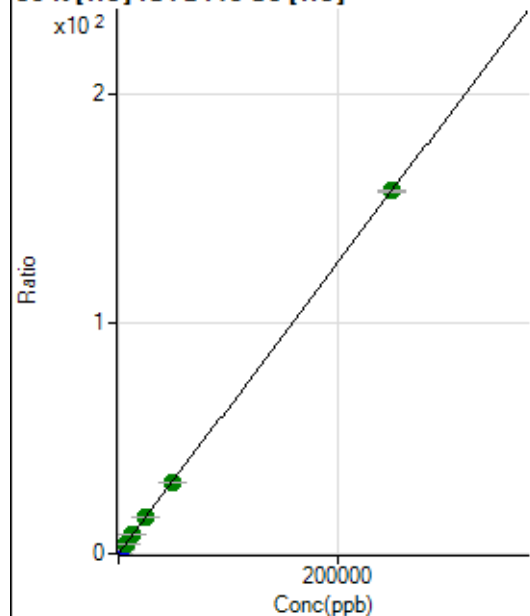
35 Cl [No Gas] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐			331487.29		P	0.5
2	☐			324043.34		P	0.6
3	☐			330281.52		P	0.8
4	☐			347228.06		P	0.8
5	☐			337068.26		P	0.2
6	☐			324873.50		P	0.7
7	☐			344414.45		P	0.8
8	☐			323964.63		P	0.9

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2536.41		P	7.2
2	☐			2278.02		P	3.5
3	☐			2380.81		P	5.9
4	☐			2405.82		P	5.8
5	☐			2433.60		P	4.5
6	☐			2222.46		P	2.7
7	☐			2466.94		P	7.3
8	☐			2533.62		P	3.1

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	23898.07	0.0649	P	3.1
2	☐	500.000	474.420	136637.28	0.3638	P	0.7
3	☐	2500.000	2517.941	589095.23	1.6510	P	1.0
4	☐	6250.000	6465.557	1434537.60	4.1376	A	0.7
5	☐	12500.000	12688.745	2706605.42	8.0577	A	1.3
6	☐	25000.000	24936.029	5358492.09	15.7723	A	1.5
7	☐	50000.000	49352.656	10957400.51	31.1525	A	0.5
8	☐	250000.00	250120.91	57841984.63	157.6177	A	0.8

$$y = 6.2991E-004 * x + 0.0649$$

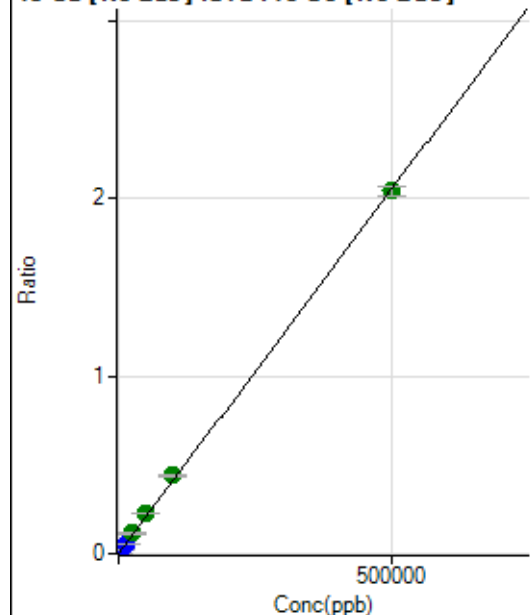
$$R = 1.0000$$

$$DL = 9.616$$

$$BEC = 103.1$$

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	461.62	0.0000	P	8.4
2	☐	500.000	470.957	23207.44	0.0020	P	1.0
3	☐	5000.000	5238.410	247630.48	0.0216	P	2.2
4	☐	12500.000	13505.509	611600.04	0.0555	P	1.5
5	☐	25000.000	28185.140	1258823.86	0.1158	A	4.1
6	☐	50000.000	54482.831	2481808.40	0.2238	A	0.7
7	☐	100000.00	106970.11	4999017.47	0.4393	A	1.5
8	☐	500000.00	497970.94	22949679.04	2.0451	A	2.4

$$y = 4.1068\text{E-}006 * x + 3.9763\text{E-}005$$

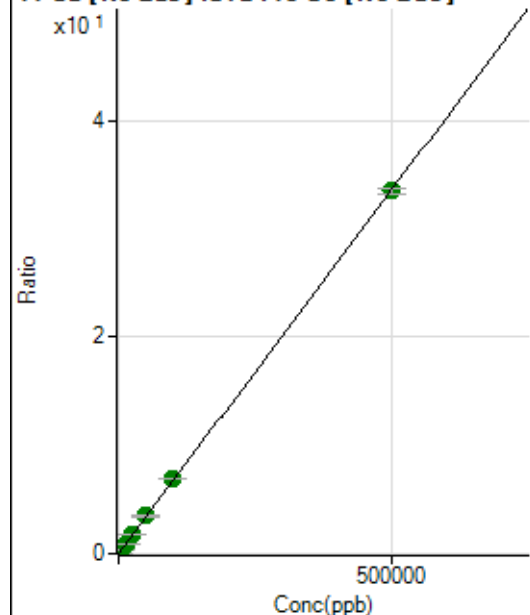
$$R = 0.9999$$

$$DL = 2.451$$

$$BEC = 9.682$$

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	45864.30	0.0040	P	1.1
2	☐	500.000	475.706	421642.60	0.0359	P	1.5
3	☐	5000.000	5251.001	4094121.39	0.3562	A	0.6
4	☐	12500.000	13597.649	10093852.56	0.9162	A	3.1
5	☐	25000.000	26778.544	19574772.77	1.8005	A	4.0
6	☐	50000.000	51610.244	38440308.35	3.4665	A	1.7
7	☐	100000.00	104014.29	79448707.37	6.9823	A	0.2
8	☐	500000.00	498917.26	375704410.8	33.4764	A	1.4

$$y = 6.7090\text{E-}005 * x + 0.0040$$

$$R = 1.0000$$

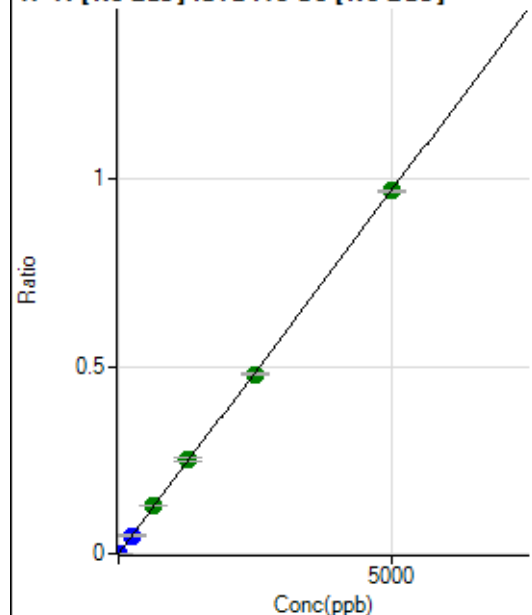
$$DL = 1.961$$

$$BEC = 58.88$$

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	275.01	0.0000	P	11.7
2	☐	5.000	4.842	11310.28	0.0010	P	4.0
3	☐	250.000	251.380	560239.15	0.0488	P	1.8
4	☐	625.000	659.566	1409273.94	0.1279	A	1.3
5	☐	1250.000	1303.046	2746772.83	0.2526	A	4.0
6	☐	2500.000	2474.843	5321034.45	0.4798	A	0.7
7	☐	5000.000	4994.927	11018795.04	0.9684	A	0.4
8	☐			1850.17	0.0002	P	11.9

$$y = 1.9387E-004 * x + 2.3699E-005$$

$$R = 0.9999$$

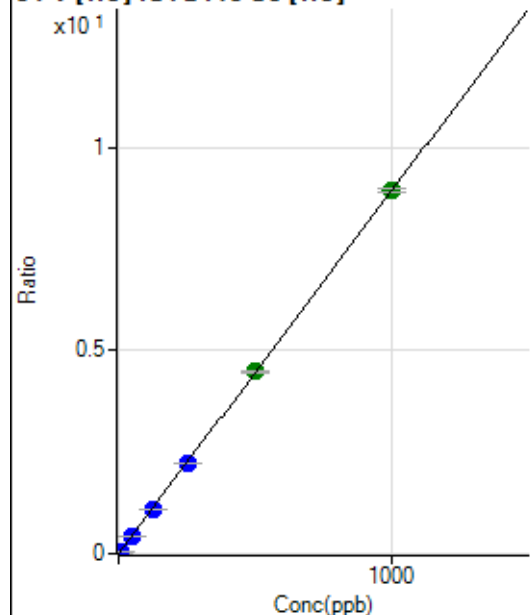
$$DL = 0.04285$$

$$BEC = 0.1222$$

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	22.22	0.0001	P	24.1
2	☐	5.000	4.740	15920.08	0.0424	P	1.0
3	☐	50.000	48.474	154478.19	0.4329	P	0.8
4	☐	125.000	122.451	379133.80	1.0936	P	1.0
5	☐	250.000	248.119	744290.56	2.2158	P	1.2
6	☐	500.000	501.211	1520783.37	4.4760	A	0.4
7	☐	1000.000	1000.261	3141785.89	8.9326	A	1.0
8	☐			447.79	0.0012	P	5.0

$$y = 0.0089 * x + 6.0494E-005$$

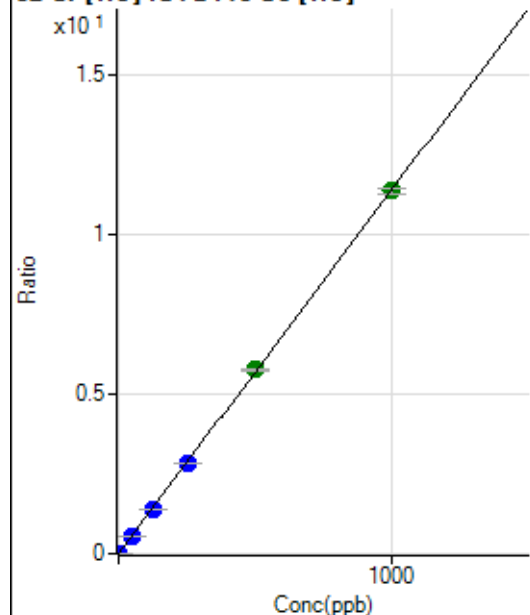
$$R = 1.0000$$

$$DL = 0.004889$$

$$BEC = 0.006774$$

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	1331.19	0.0036	P	3.4
2	☐	2.000	1.911	9543.27	0.0254	P	0.2
3	☐	50.000	48.921	200362.81	0.5615	P	1.1
4	☐	125.000	122.822	486880.74	1.4044	P	1.1
5	☐	250.000	247.595	949743.77	2.8274	P	0.3
6	☐	500.000	505.529	1960089.59	5.7690	A	0.6
7	☐	1000.000	998.163	4005221.85	11.3874	A	1.3
8	☐			8629.33	0.0235	P	3.6

$$y = 0.0114 * x + 0.0036$$

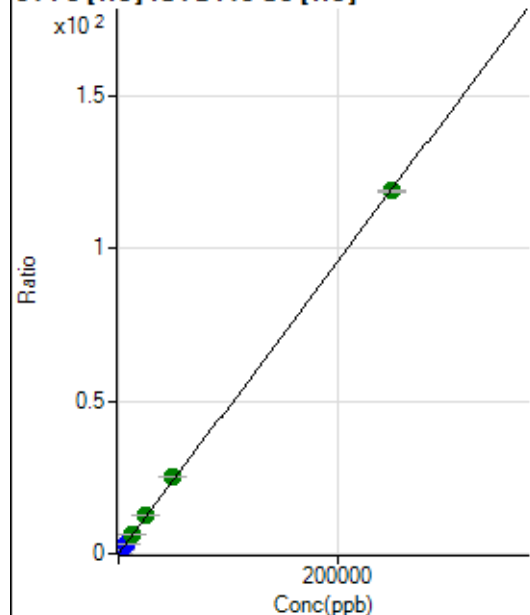
$$R = 1.0000$$

$$DL = 0.03253$$

$$BEC = 0.3171$$

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	927.83	0.0025	P	2.0
2	☐	50.000	51.659	10190.83	0.0271	P	2.2
3	☐	2500.000	2617.450	445883.28	1.2496	P	1.1
4	☐	6250.000	6680.768	1104461.26	3.1857	P	0.8
5	☐	12500.000	13776.551	2205726.99	6.5665	A	0.9
6	☐	25000.000	26838.500	4345502.58	12.7901	A	0.5
7	☐	50000.000	52707.744	8833894.35	25.1158	A	0.5
8	☐	250000.00	249198.83	43571972.27	118.7367	A	0.8

$$y = 4.7646E-004 * x + 0.0025$$

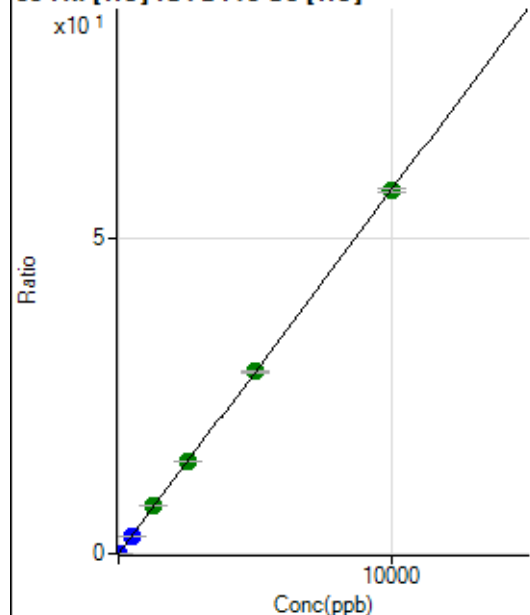
$$R = 0.9999$$

$$DL = 0.3098$$

$$BEC = 5.291$$

Weight: <None>

Min Conc: 0

55 Mn [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	165.56	0.0004	P	22.9
2	☐	1.000	1.019	2375.78	0.0063	P	2.2
3	☐	500.000	492.120	1013029.20	2.8391	P	0.3
4	☐	1250.000	1303.280	2606458.21	7.5180	A	1.0
5	☐	2500.000	2546.997	4935105.76	14.6921	A	0.7
6	☐	5000.000	5012.199	9822509.86	28.9119	A	1.4
7	☐	10000.000	9975.885	20239252.89	57.5435	A	0.9
8	☐			20503.70	0.0559	P	0.9

$$y = 0.0058 * x + 4.4886E-004$$

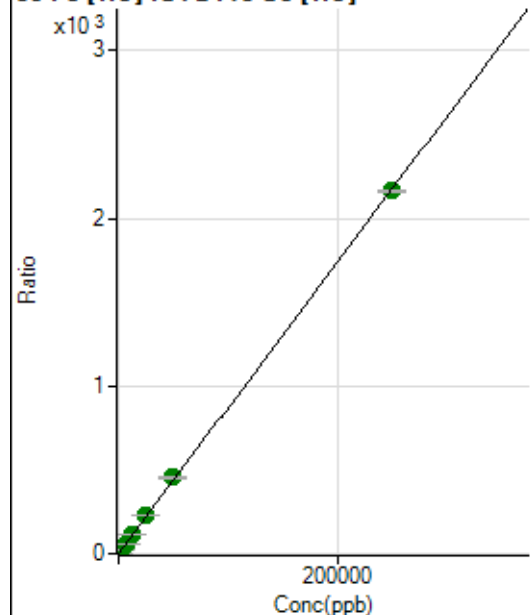
$$R = 1.0000$$

$$DL = 0.05336$$

$$BEC = 0.07782$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	7168.57	0.0195	P	2.6
2	☐	50.000	50.569	172142.87	0.4583	P	0.8
3	☐	2500.000	2616.319	8108015.34	22.7237	A	2.2
4	☐	6250.000	6731.264	20259127.07	58.4329	A	0.6
5	☐	12500.000	13422.509	39133206.43	116.4990	A	0.3
6	☐	25000.000	26330.359	77636376.73	228.5124	A	0.8
7	☐	50000.000	52461.465	160129559.1	455.2761	A	1.3
8	☐	250000.00	249315.35	793954691.8	2.163559	A	0.7

$$y = 0.0087 * x + 0.0195$$

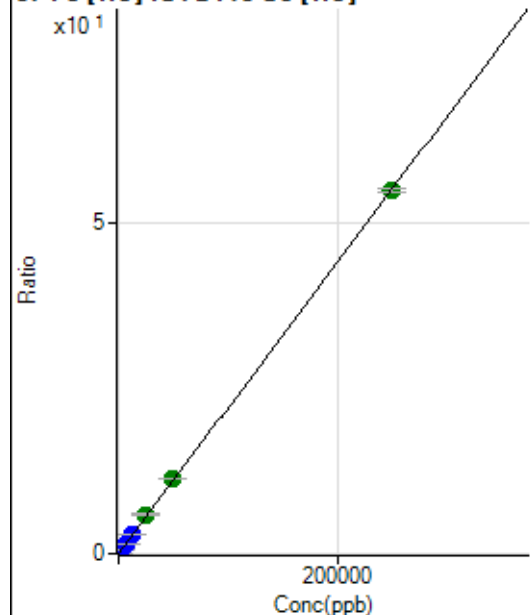
$$R = 0.9999$$

$$DL = 0.1782$$

$$BEC = 2.245$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	205.56	0.0006	P	20.7
2	☐	50.000	48.762	4234.03	0.0113	P	4.8
3	☐	2500.000	2541.344	199503.94	0.5591	P	0.9
4	☐	6250.000	6417.235	489202.33	1.4110	P	0.6
5	☐	12500.000	13074.145	965431.84	2.8742	P	1.1
6	☐	25000.000	26886.264	2007773.92	5.9100	A	2.3
7	☐	50000.000	51834.859	4007377.49	11.3936	A	1.2
8	☐	250000.00	249411.10	20116877.99	54.8199	A	1.1

$$y = 2.1980\text{E-}004 * x + 5.5766\text{E-}004$$

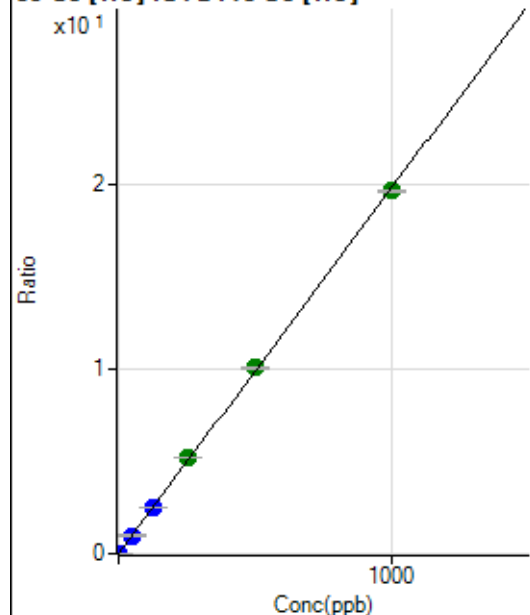
$$R = 0.9999$$

$$DL = 1.573$$

$$BEC = 2.537$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	97.78	0.0003	P	12.4
2	☐	1.000	0.964	7254.14	0.0193	P	2.2
3	☐	50.000	49.939	352208.45	0.9871	P	0.9
4	☐	125.000	124.447	852688.41	2.4594	P	0.4
5	☐	250.000	263.392	1748354.66	5.2051	A	1.6
6	☐	500.000	509.044	3417726.51	10.0593	A	0.8
7	☐	1000.000	992.202	6896185.59	19.6069	A	0.7
8	☐			15848.94	0.0432	P	0.7

$$y = 0.0198 * x + 2.6594\text{E-}004$$

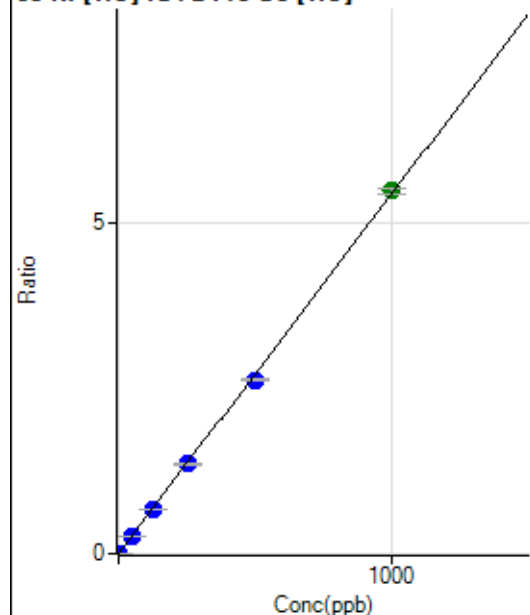
$$R = 0.9998$$

$$DL = 0.004998$$

$$BEC = 0.01346$$

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	51.11	0.0001	P	27.9
2	☐	1.000	1.003	2102.40	0.0056	P	4.4
3	☐	50.000	49.631	96426.68	0.2702	P	0.7
4	☐	125.000	124.779	235481.48	0.6792	P	0.6
5	☐	250.000	249.171	455553.28	1.3562	P	0.5
6	☐	500.000	482.899	892934.56	2.6282	P	0.5
7	☐	1000.000	1008.804	1931161.10	5.4903	A	1.4
8	☐			4820.86	0.0131	P	3.3

$$y = 0.0054 * x + 1.3922E-004$$

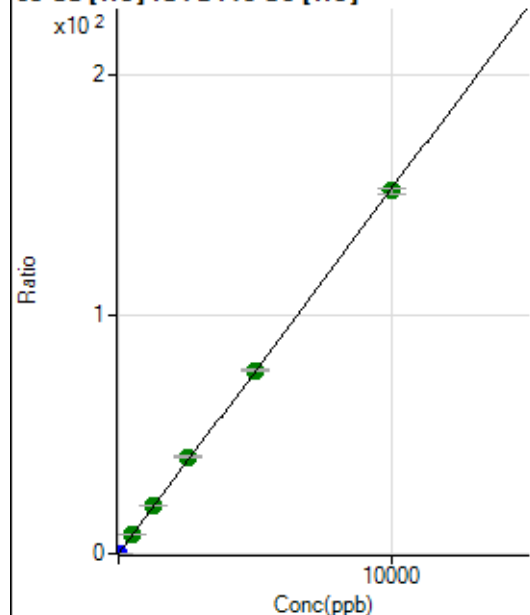
$$R = 0.9998$$

$$DL = 0.02141$$

$$BEC = 0.02558$$

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	926.71	0.0025	P	5.2
2	☐	2.000	1.791	11200.06	0.0298	P	1.7
3	☐	500.000	530.252	2884750.34	8.0850	A	2.0
4	☐	1250.000	1307.723	6911498.44	19.9357	A	1.3
5	☐	2500.000	2646.681	13551984.38	40.3451	A	1.3
6	☐	5000.000	5021.060	26004245.72	76.5370	A	1.1
7	☐	10000.000	9944.072	53312193.65	151.5769	A	1.4
8	☐			12860.35	0.0350	P	3.4

$$y = 0.0152 * x + 0.0025$$

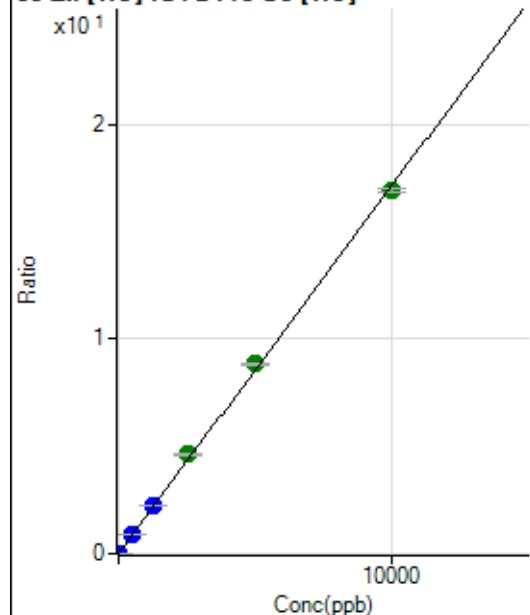
$$R = 0.9999$$

$$DL = 0.02602$$

$$BEC = 0.1652$$

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	637.80	0.0017	P	3.8
2	☐	2.000	2.167	2044.61	0.0054	P	0.5
3	☐	500.000	516.450	316160.84	0.8861	P	1.5
4	☐	1250.000	1301.042	772951.53	2.2296	P	1.9
5	☐	2500.000	2693.857	1550030.10	4.6146	A	1.1
6	☐	5000.000	5153.086	2998629.82	8.8257	A	0.3
7	☐	10000.000	9867.790	5943748.59	16.8990	A	1.1
8	☐			9893.53	0.0270	P	2.1

$$y = 0.0017 * x + 0.0017$$

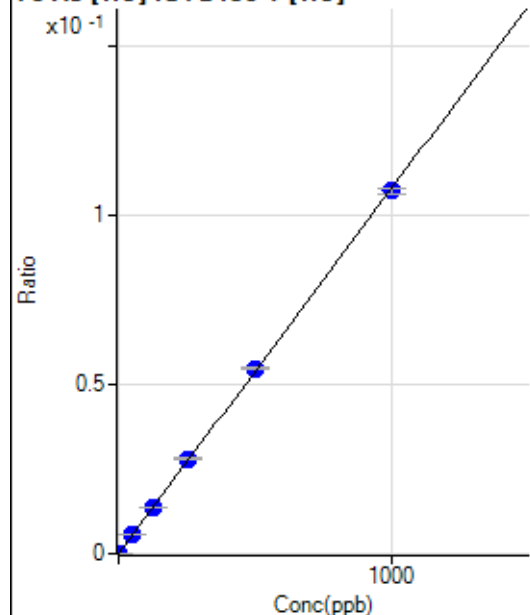
$$R = 0.9996$$

$$DL = 0.1167$$

$$BEC = 1.012$$

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	7.33	0.0000	P	47.0
2	☐	1.000	1.067	401.71	0.0001	P	9.8
3	☐	50.000	51.750	18182.49	0.0056	P	1.1
4	☐	125.000	128.877	44587.36	0.0139	P	0.2
5	☐	250.000	259.597	86894.91	0.0280	P	1.3
6	☐	500.000	506.982	172055.43	0.0547	P	0.7
7	☐	1000.000	993.538	350648.56	0.1071	P	1.9
8	☐			117.34	0.0000	P	20.2

$$y = 1.0781E-004 * x + 2.1620E-006$$

$$R = 0.9999$$

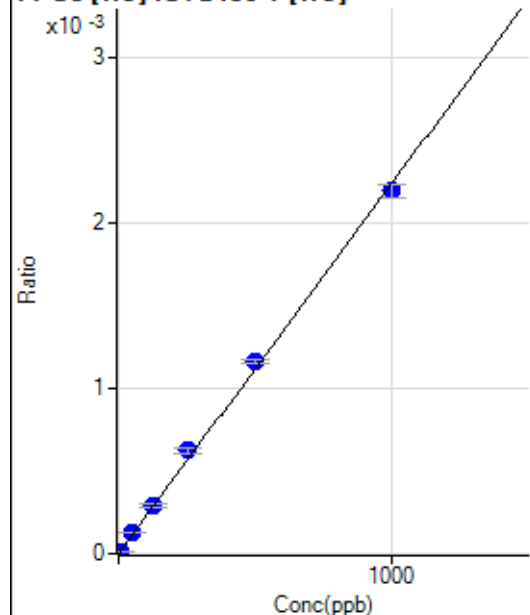
$$DL = 0.02825$$

$$BEC = 0.02005$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	5.800	44.45	0.0000	P	8.1
3	☐	50.000	57.858	421.12	0.0001	P	6.3
4	☐	125.000	129.928	931.15	0.0003	P	7.8
5	☐	250.000	279.901	1941.26	0.0006	P	5.4
6	☐	500.000	520.905	3663.85	0.0012	P	2.0
7	☐	1000.000	981.060	7175.23	0.0022	P	3.6
8	☐			1.11	0.0000	P	173.

$$y = 2.2345\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9992$$

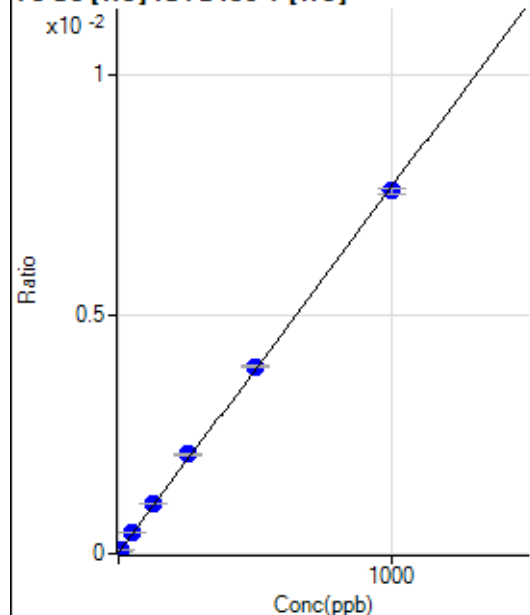
$$DL = 0$$

$$BEC = 0$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	83.34	0.0000	P	9.3
2	☐	5.000	4.997	215.35	0.0001	P	3.4
3	☐	50.000	53.643	1416.22	0.0004	P	2.8
4	☐	125.000	135.114	3392.09	0.0011	P	0.7
5	☐	250.000	268.189	6439.46	0.0021	P	1.8
6	☐	500.000	509.612	12335.64	0.0039	P	1.6
7	☐	1000.000	989.201	24827.60	0.0076	P	1.8
8	☐			100.01	0.0000	P	11.1

$$y = 7.6420\text{E-}006 * x + 2.4621\text{E-}005$$

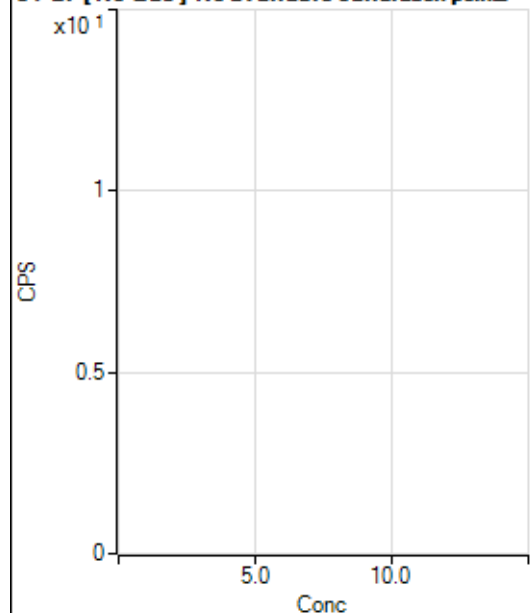
$$R = 0.9997$$

$$DL = 0.8985$$

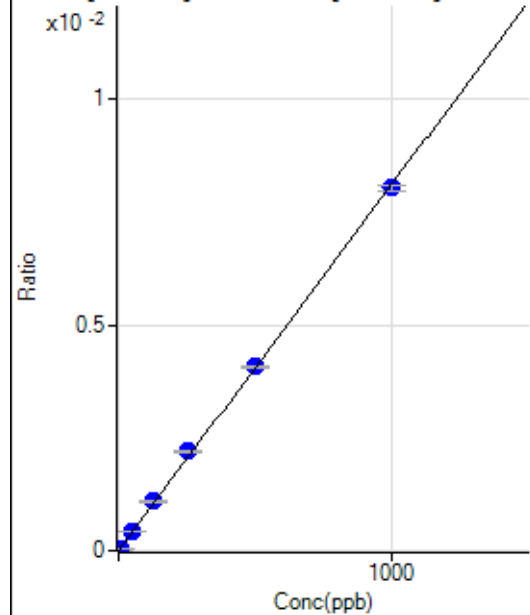
$$BEC = 3.222$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			24119.05		P	1.1
2	☐			24329.56		P	4.5
3	☐			22848.76		P	5.2
4	☐			22337.46		P	5.9
5	☐			21298.12		P	1.5
6	☐			21394.99		P	3.0
7	☐			22517.88		P	2.6
8	☐			25255.41		P	2.6

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	20.44	0.0000	P	191.
2	☐	5.000	5.421	1320.36	0.0000	P	6.2
3	☐	50.000	52.572	12369.44	0.0004	P	0.7
4	☐	125.000	135.116	30583.80	0.0011	P	1.8
5	☐	250.000	271.048	59599.16	0.0022	P	3.1
6	☐	500.000	503.815	115791.09	0.0041	P	1.2
7	☐	1000.000	991.435	232617.67	0.0080	P	1.7
8	☐			280.46	0.0000	P	18.2

$$y = 8.0975E-006 * x + 7.0507E-007$$

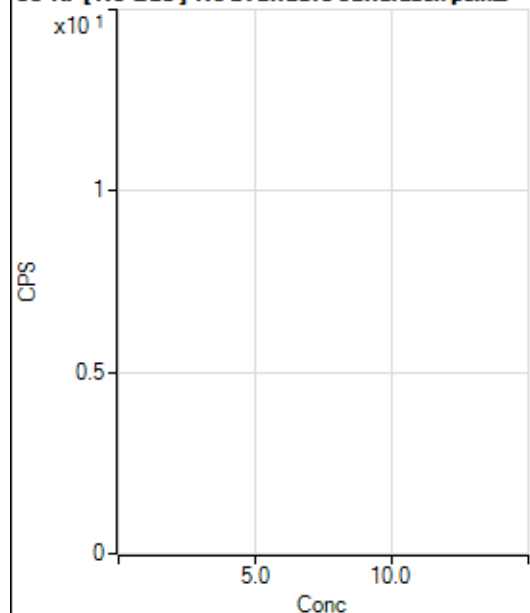
$$R = 0.9997$$

$$DL = 0.4992$$

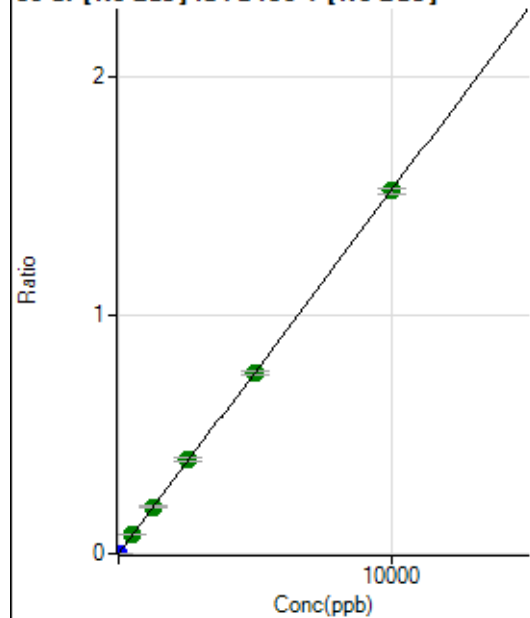
$$BEC = 0.08707$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1010.05		P	2.0
2	☐			943.38		P	2.1
3	☐			1053.39		P	7.6
4	☐			973.38		P	7.5
5	☐			940.04		P	10.3
6	☐			1031.16		P	7.5
7	☐			926.71		P	3.2
8	☐			1024.50		P	5.4

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1761.27	0.0001	P	8.0
2	☐	1.000	0.993	6265.47	0.0002	P	0.7
3	☐	500.000	508.891	2254020.06	0.0777	A	0.0
4	☐	1250.000	1295.363	5520759.37	0.1977	A	4.4
5	☐	2500.000	2607.406	10799181.58	0.3979	A	3.9
6	☐	5000.000	4971.453	21526238.15	0.7586	A	1.5
7	☐	10000.000	9981.307	44124725.99	1.5229	A	1.8
8	☐			19631.01	0.0007	P	3.2

$$y = 1.5257E-004 * x + 6.0075E-005$$

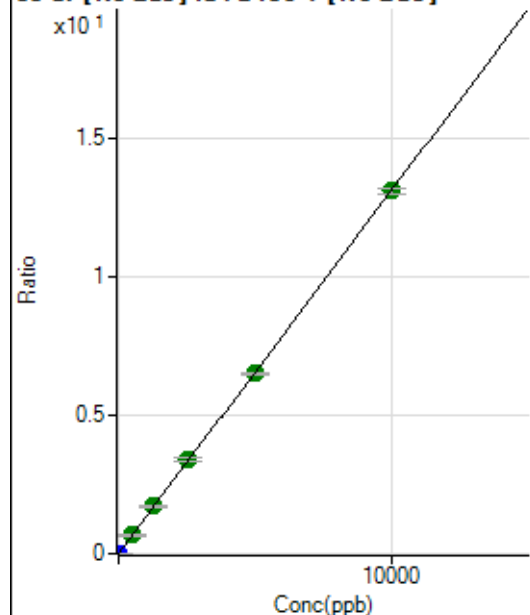
$$R = 0.9999$$

$$DL = 0.09489$$

$$BEC = 0.3937$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1677.92	0.0001	P	2.3
2	☐	1.000	1.032	41846.80	0.0014	P	0.8
3	☐	500.000	504.651	19234632.20	0.6631	A	1.4
4	☐	1250.000	1299.809	47690827.80	1.7078	A	4.3
5	☐	2500.000	2609.672	93063959.72	3.4287	A	3.9
6	☐	5000.000	4955.129	184739856.9	6.5102	A	1.6
7	☐	10000.000	9988.559	380224139.0	13.1232	A	1.5
8	☐			160094.64	0.0056	P	2.3

$$y = 0.0013 * x + 5.7204E-005$$

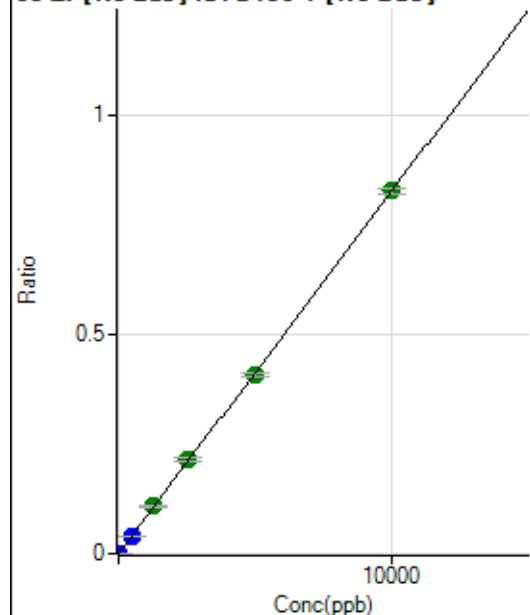
$$R = 0.9999$$

$$DL = 0.002997$$

$$BEC = 0.04354$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1280.65	0.0000	P	8.3
2	☐	1.000	9.446	24452.58	0.0008	P	0.9
3	☐	500.000	491.659	1182071.49	0.0407	P	0.9
4	☐	1250.000	1302.998	3014286.22	0.1079	A	3.1
5	☐	2500.000	2589.299	5819464.76	0.2144	A	4.1
6	☐	5000.000	4913.010	11544036.63	0.4068	A	2.2
7	☐	10000.000	10014.962	24025435.95	0.8292	A	1.5
8	☐			7813.53	0.0003	P	6.0

$$y = 8.2793E-005 * x + 4.3667E-005$$

$$R = 0.9999$$

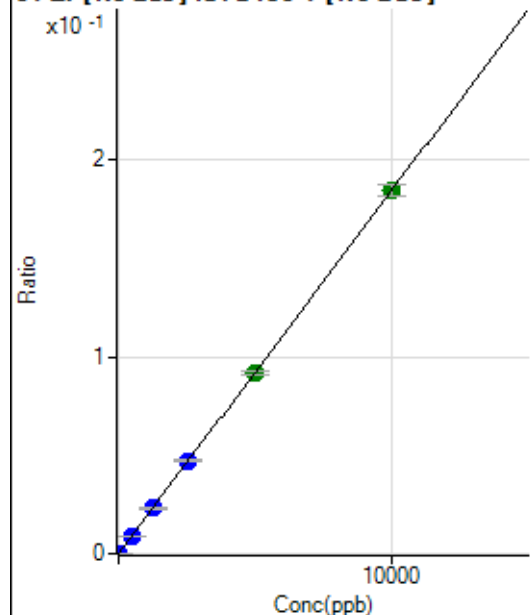
$$DL = 0.1309$$

$$BEC = 0.5274$$

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	236.12	0.0000	P	17.3
2	☐	1.000	8.968	5131.64	0.0002	P	1.6
3	☐	500.000	484.768	259285.55	0.0089	P	0.8
4	☐	1250.000	1255.601	646340.49	0.0231	P	2.1
5	☐	2500.000	2556.149	1278629.27	0.0471	P	2.7
6	☐	5000.000	4978.890	2603034.89	0.0917	A	1.2
7	☐	10000.000	9996.579	5335708.85	0.1842	A	3.2
8	☐			1591.80	0.0001	P	6.6

$$y = 1.8422\text{E-}005 * x + 8.0585\text{E-}006$$

$$R = 1.0000$$

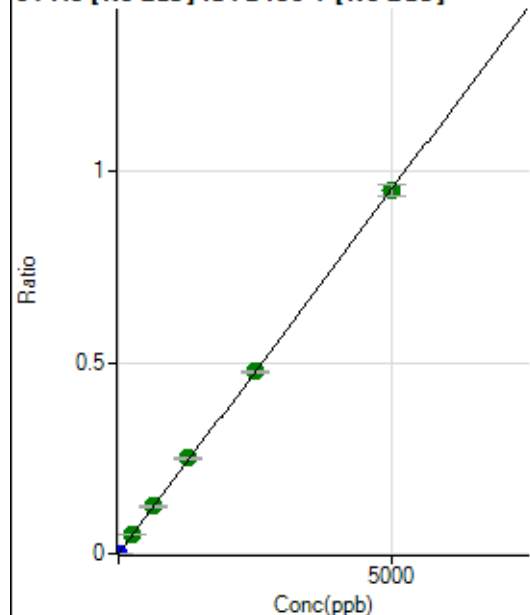
$$DL = 0.2271$$

$$BEC = 0.4374$$

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	544.47	0.0000	P	12.1
2	☐	5.000	4.795	27589.06	0.0009	P	2.0
3	☐	250.000	255.025	1409326.46	0.0486	A	0.5
4	☐	625.000	651.749	3467329.55	0.1241	A	2.5
5	☐	1250.000	1313.483	6792273.81	0.2501	A	1.8
6	☐	2500.000	2496.918	13493436.32	0.4755	A	1.8
7	☐	5000.000	4982.075	27487526.48	0.9488	A	3.0
8	☐			8472.26	0.0003	P	8.8

$$y = 1.9043\text{E-}004 * x + 1.8582\text{E-}005$$

$$R = 0.9999$$

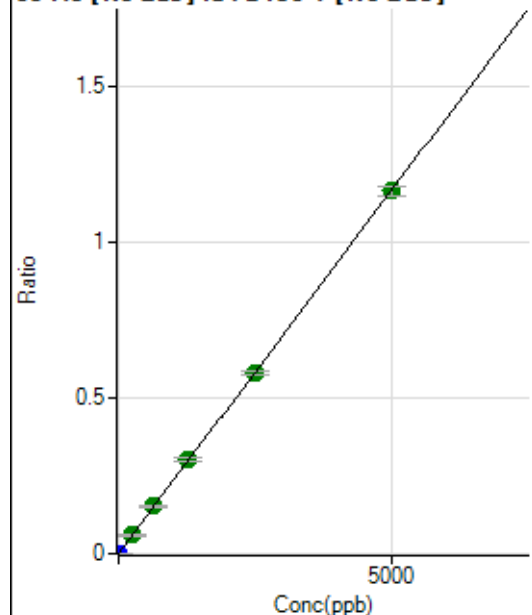
$$DL = 0.03538$$

$$BEC = 0.09758$$

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	180.56	0.0000	P	12.1
2	☐	5.000	4.883	33953.23	0.0011	P	3.2
3	☐	250.000	251.482	1704136.34	0.0587	A	1.5
4	☐	625.000	652.391	4257082.21	0.1524	A	1.5
5	☐	1250.000	1295.067	8212348.36	0.3025	A	2.7
6	☐	2500.000	2483.909	16463093.25	0.5802	A	2.1
7	☐	5000.000	4993.281	33790725.06	1.1663	A	2.5
8	☐			10081.65	0.0004	P	8.4

$$y = 2.3358\text{E-}004 * x + 6.1578\text{E-}006$$

$$R = 0.9999$$

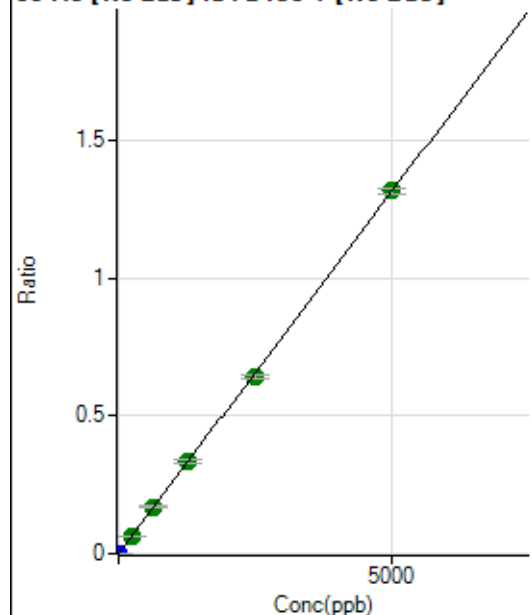
$$DL = 0.009576$$

$$BEC = 0.02636$$

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	305.57	0.0000	P	27.2
2	☐	5.000	4.765	37328.50	0.0013	P	1.0
3	☐	250.000	249.950	1902530.64	0.0656	A	0.2
4	☐	625.000	646.951	4741445.63	0.1697	A	2.1
5	☐	1250.000	1281.538	9126507.50	0.3362	A	3.6
6	☐	2500.000	2447.786	18223265.51	0.6422	A	1.6
7	☐	5000.000	5015.481	38123732.45	1.3158	A	1.7
8	☐			25248.53	0.0009	P	4.7

$$y = 2.6235\text{E-}004 * x + 1.0438\text{E-}005$$

$$R = 0.9999$$

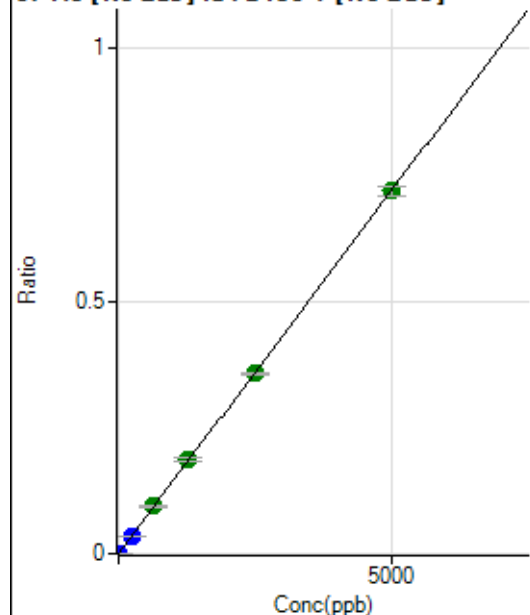
$$DL = 0.03247$$

$$BEC = 0.03978$$

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	138.89	0.0000	P	25.0
2	☐	5.000	4.870	20863.39	0.0007	P	3.7
3	☐	250.000	245.003	1021633.29	0.0352	P	0.8
4	☐	625.000	649.260	2606807.78	0.0933	A	2.1
5	☐	1250.000	1295.920	5057031.36	0.1863	A	2.4
6	☐	2500.000	2476.826	10101567.59	0.3560	A	2.0
7	☐	5000.000	4997.324	20809027.20	0.7183	A	2.4
8	☐			5795.81	0.0002	P	6.8

$$y = 1.4373\text{E-}004 * x + 4.7358\text{E-}006$$

$$R = 0.9999$$

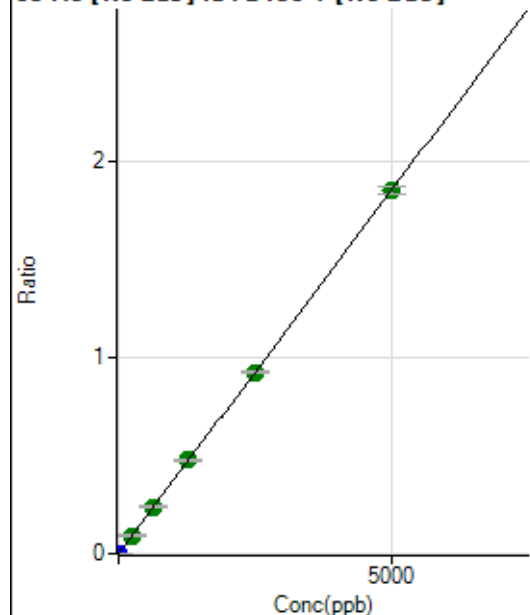
$$DL = 0.0247$$

$$BEC = 0.03295$$

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	336.12	0.0000	P	33.8
2	☐	5.000	4.852	53710.34	0.0018	P	0.9
3	☐	250.000	251.182	2706564.86	0.0933	A	1.1
4	☐	625.000	647.349	6717151.98	0.2404	A	1.5
5	☐	1250.000	1292.067	13029901.76	0.4799	A	2.3
6	☐	2500.000	2488.861	26232911.18	0.9244	A	1.1
7	☐	5000.000	4992.200	53720018.56	1.8542	A	2.0
8	☐			13420.73	0.0005	P	8.6

$$y = 3.7141\text{E-}004 * x + 1.1490\text{E-}005$$

$$R = 1.0000$$

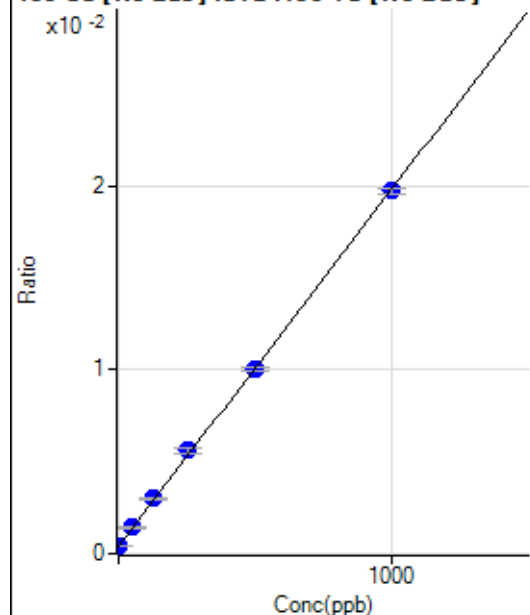
$$DL = 0.03137$$

$$BEC = 0.03094$$

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	6354.39	0.0004	P	5.4
2	☐	1.000	1.525	6896.34	0.0004	P	5.4
3	☐	50.000	51.930	22755.39	0.0014	P	3.4
4	☐	125.000	133.239	46080.31	0.0030	P	4.6
5	☐	250.000	269.003	86449.17	0.0056	P	6.2
6	☐	500.000	495.974	162582.00	0.0100	P	1.8
7	☐	1000.000	996.135	321283.33	0.0197	P	1.3
8	☐			6512.81	0.0004	P	4.5

$$y = 1.9378\text{E-}005 * x + 4.0485\text{E-}004$$

$$R = 0.9998$$

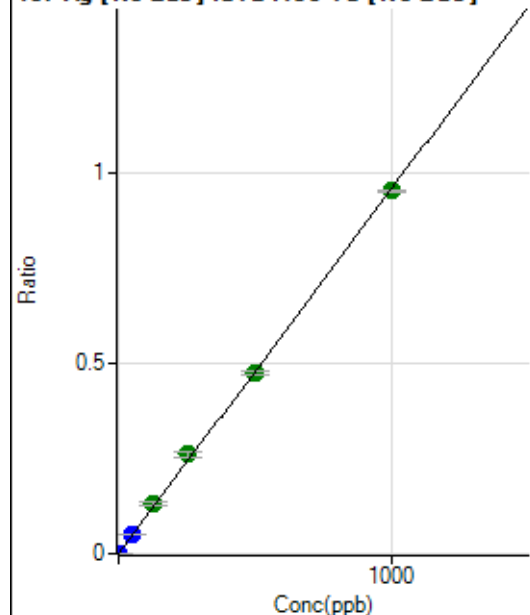
$$DL = 3.388$$

$$BEC = 20.89$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	200.01	0.0000	P	5.2
2	☐	1.000	0.998	15408.97	0.0010	P	1.5
3	☐	50.000	51.983	804575.39	0.0499	P	1.0
4	☐	125.000	137.623	2036469.53	0.1320	A	5.9
5	☐	250.000	272.137	4018080.30	0.2611	A	6.1
6	☐	500.000	496.287	7729207.11	0.4762	A	1.6
7	☐	1000.000	994.645	15557287.85	0.9543	A	0.9
8	☐			5051.06	0.0003	P	3.9

$$y = 9.5941\text{E-}004 * x + 1.2741\text{E-}005$$

$$R = 0.9997$$

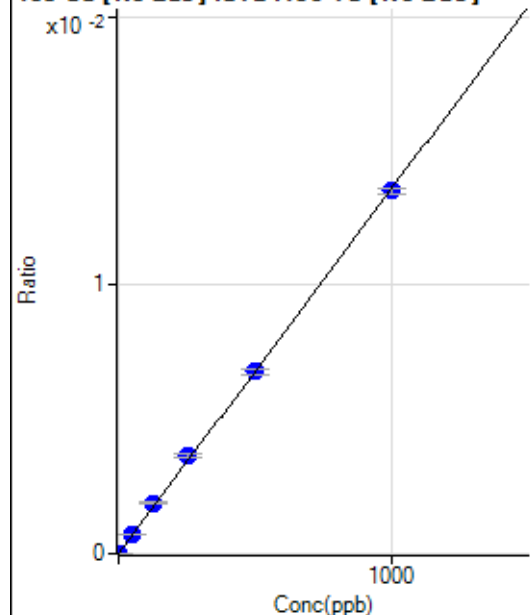
$$DL = 0.002054$$

$$BEC = 0.01328$$

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	22.22	0.0000	P	46.9
2	☐	1.000	0.921	220.84	0.0000	P	10.0
3	☐	50.000	52.291	11475.72	0.0007	P	4.8
4	☐	125.000	137.209	28781.50	0.0019	P	3.9
5	☐	250.000	267.715	56023.00	0.0036	P	4.1
6	☐	500.000	498.900	110021.51	0.0068	P	2.5
7	☐	1000.000	994.480	220246.17	0.0135	P	1.8
8	☐			116.67	0.0000	P	9.1

$$y = 1.3584\text{E-}005 * x + 1.4122\text{E-}006$$

$$R = 0.9998$$

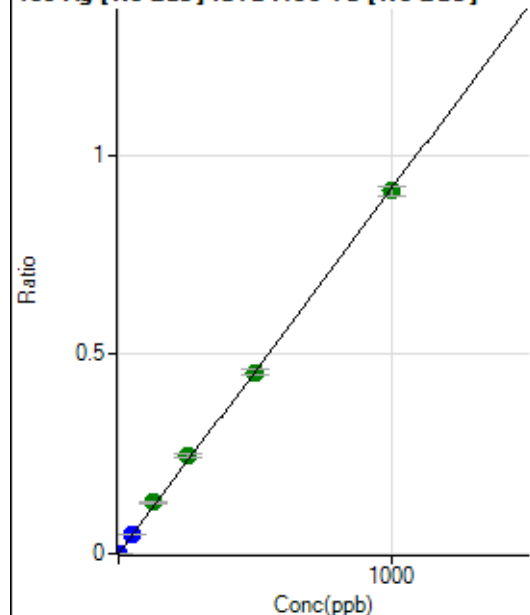
$$DL = 0.1462$$

$$BEC = 0.104$$

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	108.34	0.0000	P	57.9
2	☐	1.000	0.999	14616.48	0.0009	P	0.9
3	☐	50.000	51.227	755640.39	0.0469	P	1.8
4	☐	125.000	140.288	1979961.05	0.1283	A	3.5
5	☐	250.000	268.602	3781115.10	0.2456	A	5.3
6	☐	500.000	497.871	7389936.10	0.4553	A	2.9
7	☐	1000.000	994.441	14824453.63	0.9094	A	2.5
8	☐			4903.77	0.0003	P	9.0

$$y = 9.1450\text{E-}004 * x + 6.8818\text{E-}006$$

$$R = 0.9997$$

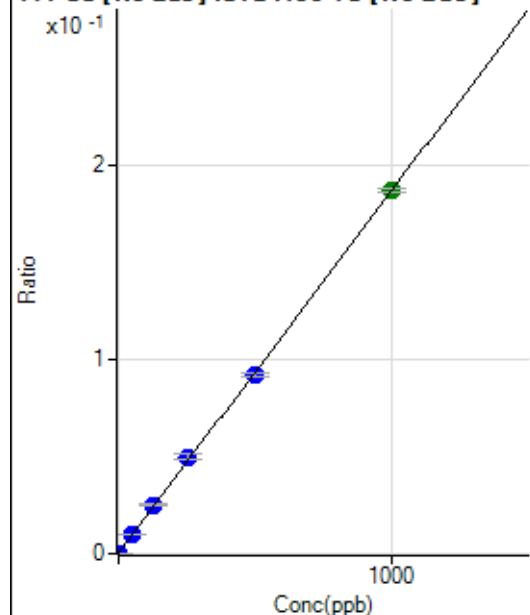
$$DL = 0.01307$$

$$BEC = 0.007525$$

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	4454.74	0.0003	P	5.4
2	☐	1.000	1.027	7555.13	0.0005	P	4.2
3	☐	50.000	51.394	159549.40	0.0099	P	1.4
4	☐	125.000	133.763	390285.57	0.0253	P	3.6
5	☐	250.000	265.153	767220.22	0.0499	P	6.3
6	☐	500.000	490.341	1492670.29	0.0920	P	2.4
7	☐	1000.000	999.876	3052281.45	0.1872	A	1.2
8	☐			5227.32	0.0003	P	4.0

$$y = 1.8697\text{E-}004 * x + 2.8382\text{E-}004$$

$$R = 0.9998$$

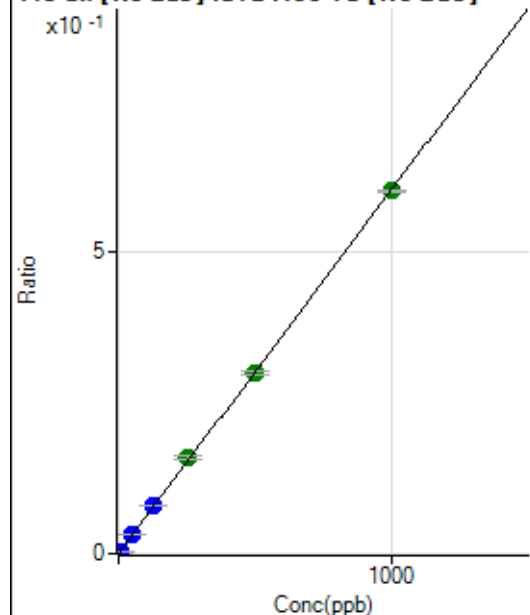
$$DL = 0.2445$$

$$BEC = 1.518$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1058.40	0.0001	P	7.3
2	☐	5.000	4.965	48637.27	0.0031	P	3.2
3	☐	50.000	50.754	494968.91	0.0307	P	2.2
4	☐	125.000	131.586	1226416.73	0.0795	P	2.8
5	☐	250.000	262.550	2440402.96	0.1585	A	4.7
6	☐	500.000	497.797	4876587.91	0.3004	A	2.0
7	☐	1000.000	997.103	9809758.55	0.6017	A	0.9
8	☐			4125.74	0.0003	P	6.4

$$y = 6.0339\text{E-}004 * x + 6.7448\text{E-}005$$

$$R = 0.9999$$

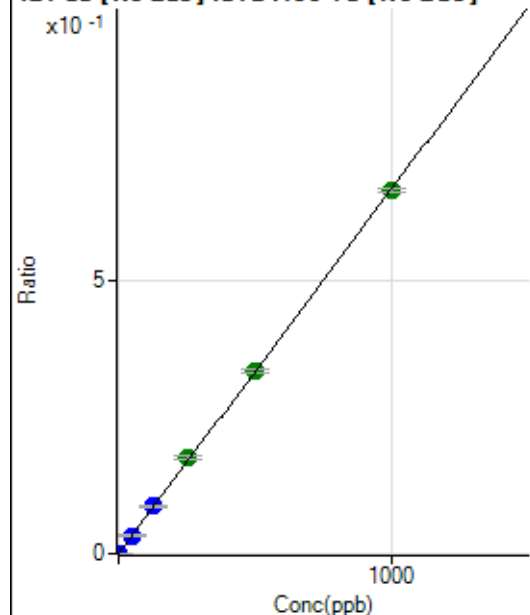
$$DL = 0.02464$$

$$BEC = 0.1118$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	108.34	0.0000	P	40.1
2	☐	2.000	1.963	20891.46	0.0013	P	4.5
3	☐	50.000	50.011	538203.08	0.0334	P	0.8
4	☐	125.000	129.627	1334384.23	0.0865	P	3.8
5	☐	250.000	264.818	2720991.14	0.1767	A	3.4
6	☐	500.000	501.398	5429154.03	0.3345	A	2.2
7	☐	1000.000	995.018	10822010.92	0.6638	A	1.2
8	☐			6290.53	0.0004	P	11.2

$$y = 6.6709\text{E-}004 * x + 6.9025\text{E-}006$$

$$R = 0.9999$$

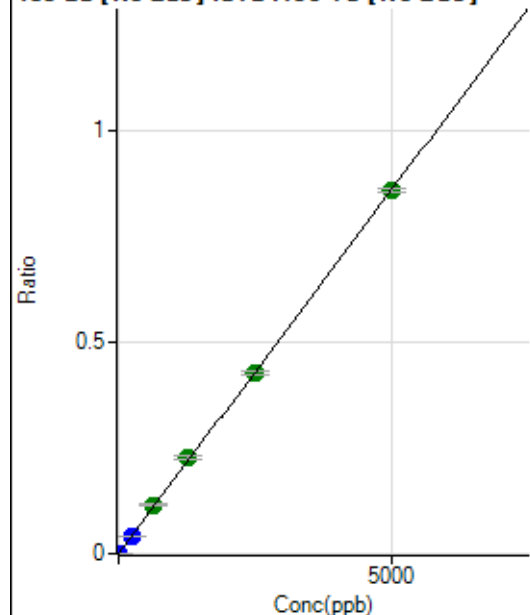
$$DL = 0.01244$$

$$BEC = 0.01035$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	88.89	0.0000	P	34.2
2	☐	10.000	9.702	26560.00	0.0017	P	0.8
3	☐	250.000	247.965	687206.87	0.0426	P	1.4
4	☐	625.000	667.008	1768032.74	0.1146	A	4.6
5	☐	1250.000	1315.367	3481024.04	0.2260	A	3.5
6	☐	2500.000	2481.882	6922047.12	0.4264	A	1.6
7	☐	5000.000	4987.569	13971818.54	0.8570	A	1.0
8	☐			5918.12	0.0004	P	2.5

$$y = 1.7182\text{E-}004 * x + 5.6792\text{E-}006$$

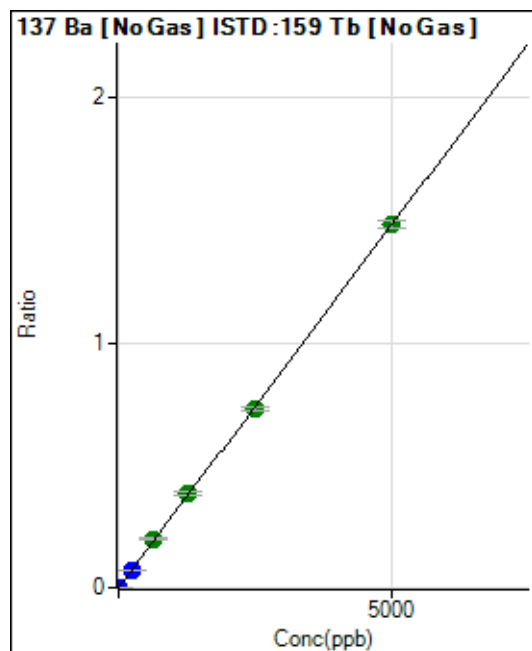
$$R = 0.9999$$

$$DL = 0.03393$$

$$BEC = 0.03305$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	111.12	0.0000	P	26.7
2	☐	10.000	9.671	45585.88	0.0029	P	0.9
3	☐	250.000	246.530	1177482.98	0.0730	P	0.9
4	☐	625.000	674.681	3083025.05	0.1998	A	3.3
5	☐	1250.000	1298.409	5923158.20	0.3845	A	2.7
6	☐	2500.000	2459.850	11823225.01	0.7284	A	1.9
7	☐	5000.000	5001.937	24145085.78	1.4811	A	2.2
8	☐			10187.41	0.0006	P	2.8

$$y = 2.9611E-004 * x + 7.0833E-006$$

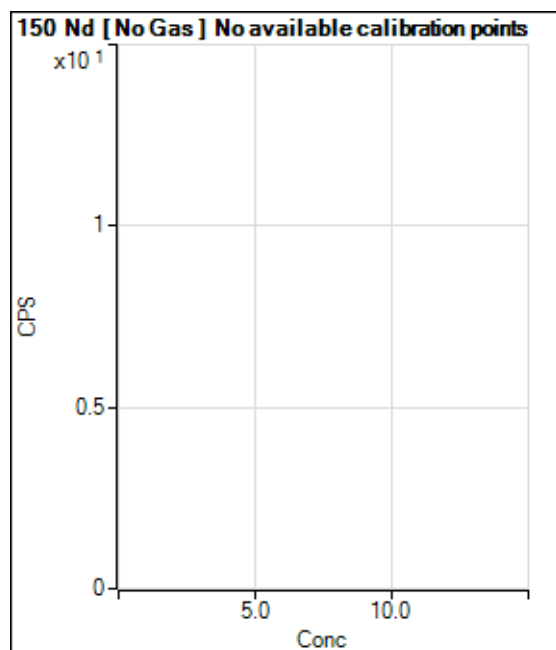
$$R = 0.9999$$

$$DL = 0.01913$$

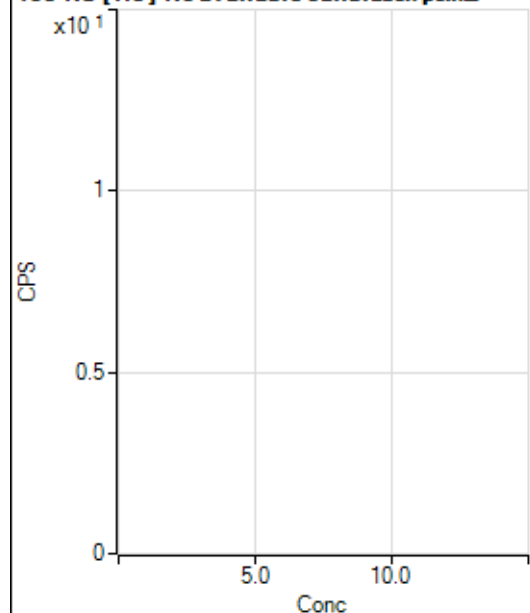
$$BEC = 0.02392$$

Weight: <None>

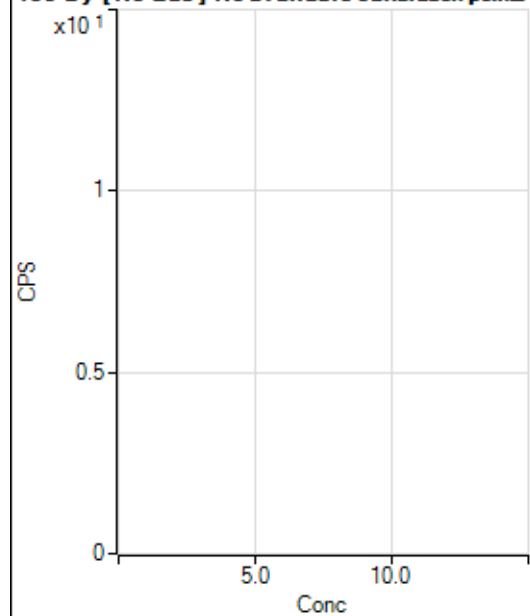
Min Conc: 0



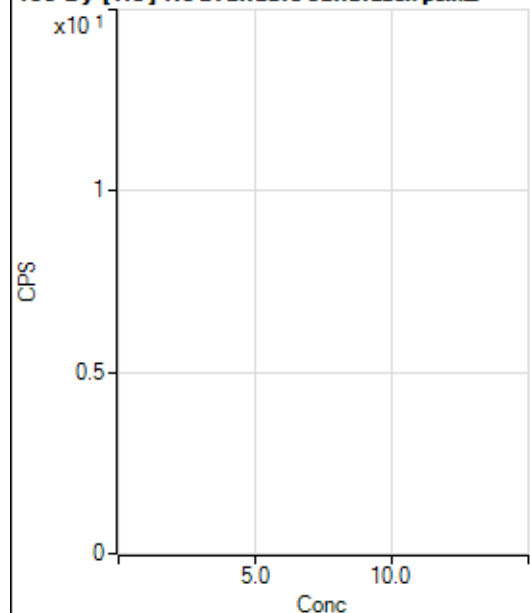
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			11.11		P	34.6
2	☐			8.89		P	114.
3	☐			37.78		P	20.4
4	☐			82.22		P	20.4
5	☐			193.34		P	19.2
6	☐			333.34		P	20.9
7	☐			711.15		P	4.6
8	☐			40.00		P	83.3

150 Nd [He] No available calibration points

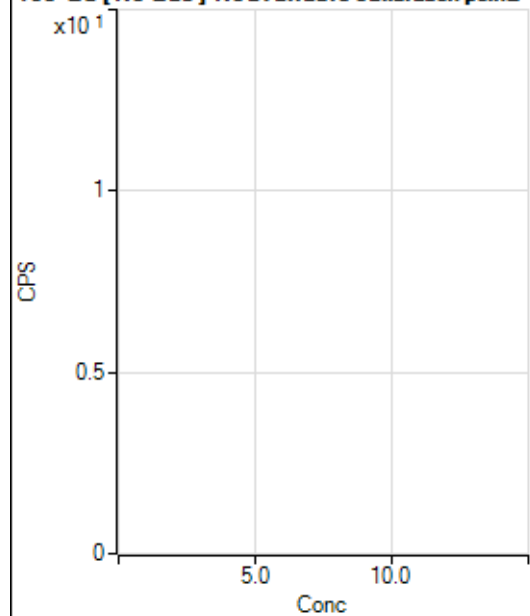
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	86.6
2	☐			0.00		P	
3	☐			7.78		P	49.5
4	☐			12.22		P	15.7
5	☐			24.45		P	28.4
6	☐			40.00		P	28.9
7	☐			90.00		P	23.1
8	☐			15.55		P	44.6

156 Dy [No Gas] No available calibration points

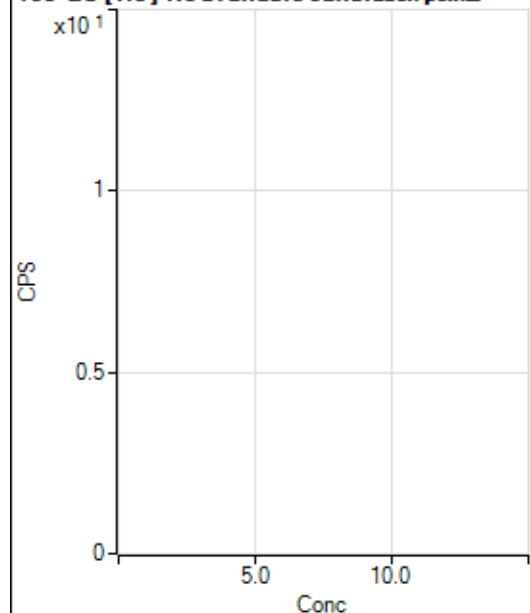
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.55		P	86.6
2	☐			5.55		P	86.6
3	☐			50.00		P	16.7
4	☐			58.34		P	24.7
5	☐			122.23		P	14.2
6	☐			311.12		P	31.7
7	☐			586.14		P	3.6
8	☐			1811.28		P	2.8

156 Dy [He] No available calibration points

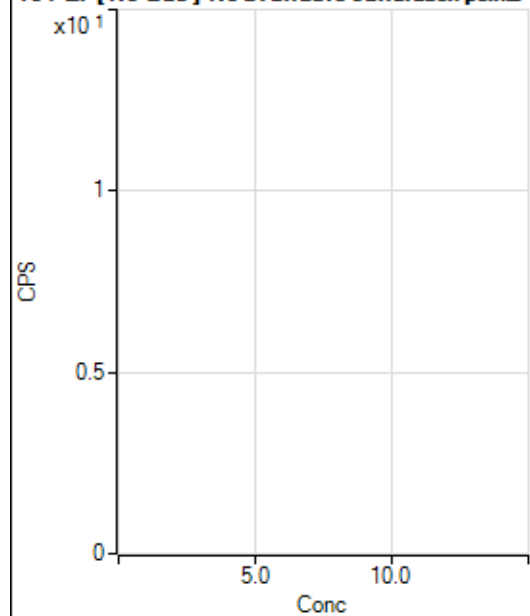
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	100.
2	☐			5.56		P	34.7
3	☐			15.55		P	24.8
4	☐			38.89		P	32.4
5	☐			61.11		P	13.7
6	☐			122.22		P	16.7
7	☐			263.34		P	2.2
8	☐			935.60		P	6.7

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

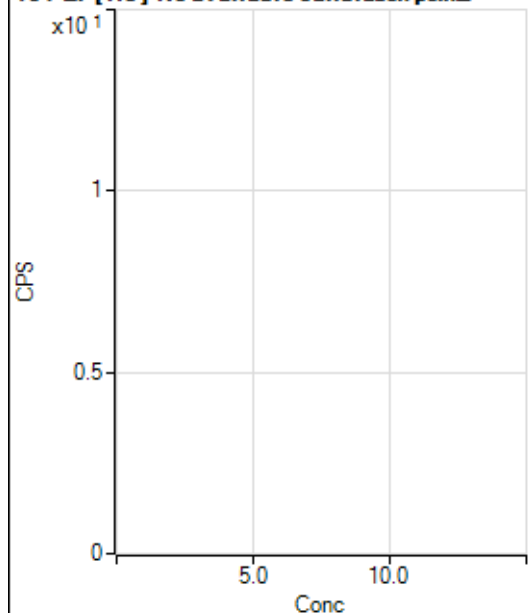
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			141.67		P	45.9
2	☐			144.45		P	36.6
3	☐			158.34		P	34.5
4	☐			127.78		P	7.5
5	☐			219.45		P	23.2
6	☐			336.12		P	17.6
7	☐			558.36		P	2.6
8	☐			2064.10		P	4.0

160 Gd [He] No available calibration points

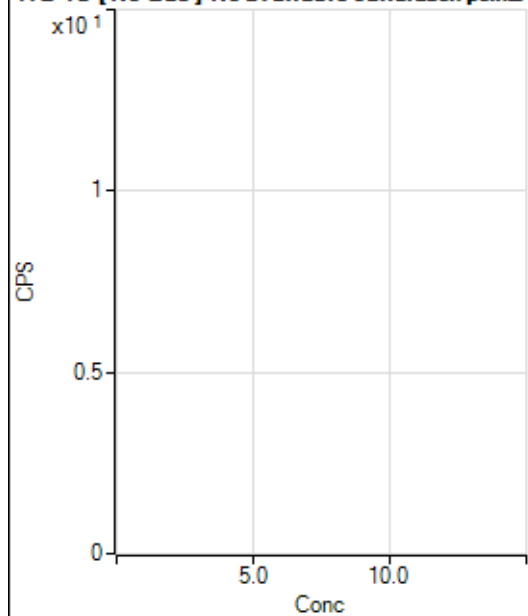
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			66.67		P	13.2
2	☐			68.89		P	14.8
3	☐			58.89		P	18.2
4	☐			83.33		P	26.2
5	☐			105.56		P	15.6
6	☐			173.34		P	15.7
7	☐			294.45		P	10.8
8	☐			1182.29		P	7.3

164 Er [No Gas] No available calibration points

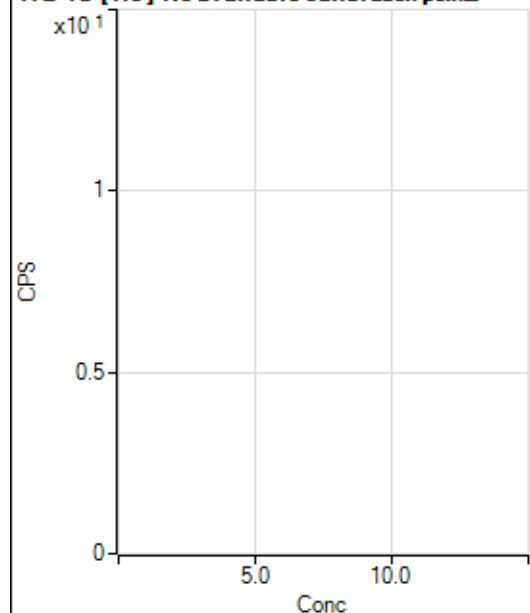
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			97.22		P	39.6
2	☐			94.45		P	27.0
3	☐			122.23		P	25.8
4	☐			127.78		P	26.4
5	☐			133.34		P	28.6
6	☐			150.00		P	14.7
7	☐			175.01		P	29.7
8	☐			375.02		P	11.8

164 Er [He] No available calibration points

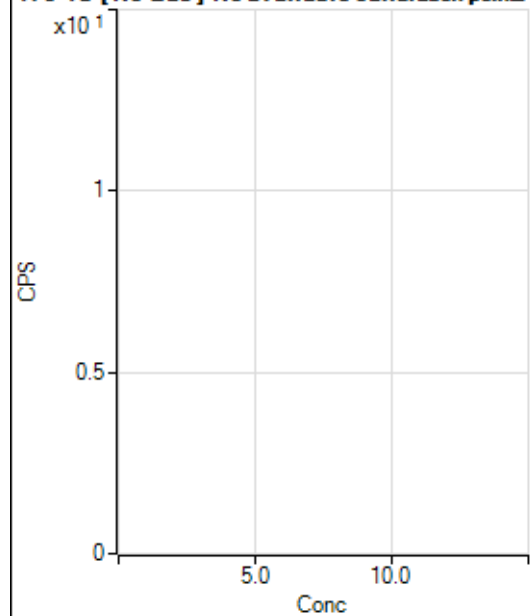
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			32.22		P	26.0
2	☐			42.22		P	55.5
3	☐			34.44		P	24.3
4	☐			52.22		P	9.7
5	☐			55.56		P	18.3
6	☐			63.33		P	24.1
7	☐			101.12		P	10.6
8	☐			184.45		P	7.5

172 Yb [No Gas] No available calibration points

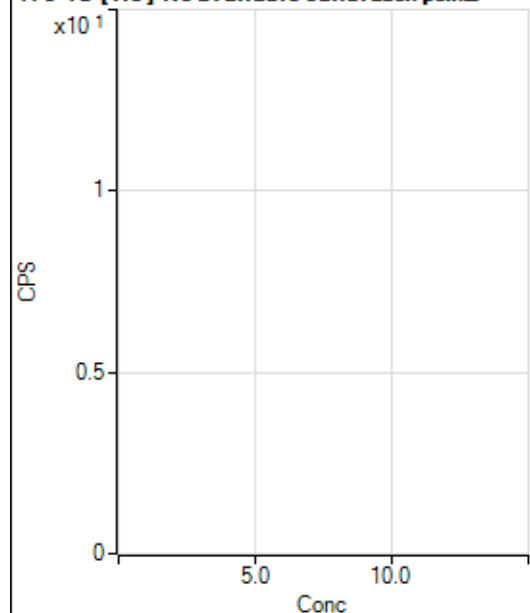
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			38.89		P	65.5
2	☐			36.11		P	26.7
3	☐			77.78		P	34.4
4	☐			38.89		P	49.5
5	☐			44.44		P	39.0
6	☐			33.33		P	25.0
7	☐			97.23		P	24.7
8	☐			88.89		P	28.6

172 Yb [He] No available calibration points

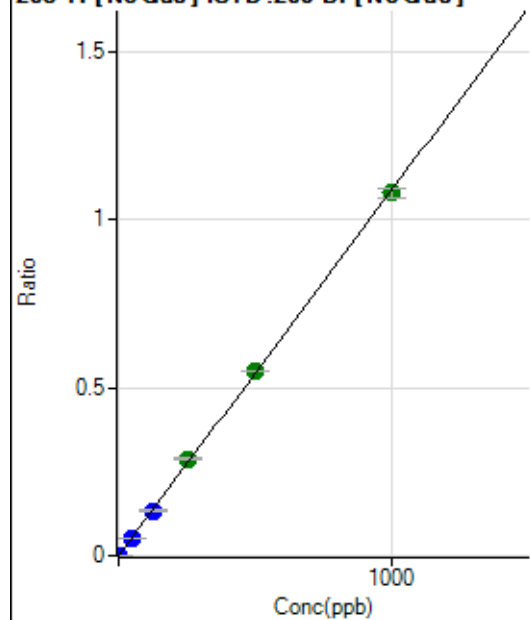
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			14.82		P	21.7
2	☐			12.96		P	65.4
3	☐			22.22		P	25.0
4	☐			22.22		P	66.1
5	☐			22.22		P	25.0
6	☐			25.92		P	49.5
7	☐			38.89		P	37.8
8	☐			72.22		P	0.0

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1708.51		P	3.9
2	☐			1614.05		P	9.3
3	☐			3675.63		P	4.7
4	☐			6646.26		P	3.3
5	☐			11752.74		P	1.9
6	☐			20466.43		P	1.7
7	☐			41566.12		P	2.3
8	☐			1866.85		P	7.6

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3098.57		P	4.7
2	☐			2211.34		P	4.5
3	☐			2755.89		P	8.8
4	☐			4289.66		P	3.6
5	☐			6414.62		P	2.0
6	☐			11306.86		P	4.4
7	☐			21799.74		P	1.7
8	☐			1655.69		P	7.5

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	275.01	0.0000	P	19.4
2	☐	1.000	0.936	9150.66	0.0010	P	1.5
3	☐	50.000	47.865	458448.34	0.0521	P	3.0
4	☐	125.000	122.549	1160950.88	0.1333	P	3.2
5	☐	250.000	265.754	2473680.13	0.2891	A	2.1
6	☐	500.000	506.262	4861557.58	0.5507	A	0.2
7	☐	1000.000	993.344	9544304.12	1.0805	A	2.8
8	☐			1941.88	0.0003	P	10.9

$$y = 0.0011 * x + 3.1930E-005$$

$$R = 0.9998$$

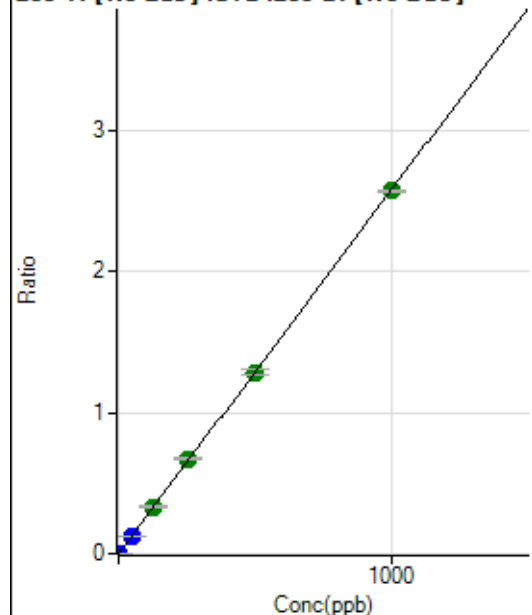
$$DL = 0.01711$$

$$BEC = 0.02935$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	638.93	0.0001	P	5.9
2	☐	1.000	0.921	21376.46	0.0025	P	2.0
3	☐	50.000	48.594	1105120.93	0.1256	P	3.1
4	☐	125.000	129.327	2908508.66	0.3341	A	4.3
5	☐	250.000	261.444	5777409.07	0.6753	A	2.7
6	☐	500.000	498.996	11375763.19	1.2888	A	2.5
7	☐	1000.000	997.170	22753633.84	2.5755	A	0.3
8	☐			4789.95	0.0006	P	12.3

$$y = 0.0026 * x + 7.4156E-005$$

$$R = 0.9999$$

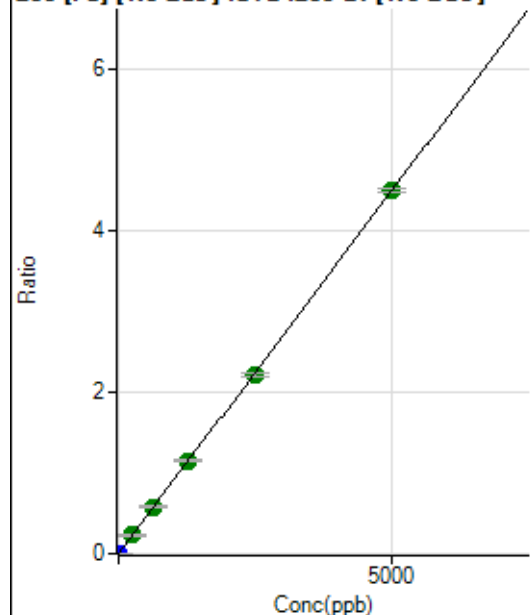
$$DL = 0.005061$$

$$BEC = 0.02871$$

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	972.27	0.0001	P	5.8
2	☐	1.000	0.924	8208.29	0.0009	P	2.3
3	☐	250.000	254.418	2011400.19	0.2285	A	2.4
4	☐	625.000	639.553	4999408.68	0.5743	A	4.0
5	☐	1250.000	1282.706	9851662.72	1.1517	A	3.1
6	☐	2500.000	2476.086	19621355.07	2.2230	A	2.3
7	☐	5000.000	5001.740	39670052.74	4.4904	A	0.9
8	☐			18487.52	0.0024	P	3.1

$$y = 8.9775E-004 * x + 1.1284E-004$$

$$R = 1.0000$$

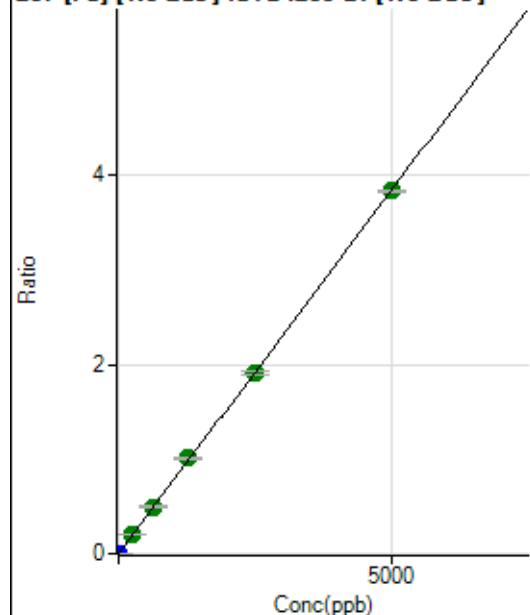
$$DL = 0.02204$$

$$BEC = 0.1257$$

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	798.19	0.0001	P	6.2
2	☐	1.000	0.922	6987.19	0.0008	P	2.3
3	☐	250.000	253.148	1714987.62	0.1948	A	1.2
4	☐	625.000	646.372	4329511.99	0.4973	A	3.6
5	☐	1250.000	1310.034	8621188.10	1.0078	A	3.1
6	☐	2500.000	2480.358	16841652.92	1.9080	A	1.7
7	☐	5000.000	4991.984	33924250.76	3.8399	A	0.6
8	☐			15715.33	0.0020	P	9.1

$$y = 7.6920\text{E-}004 * x + 9.2628\text{E-}005$$

$$R = 0.9999$$

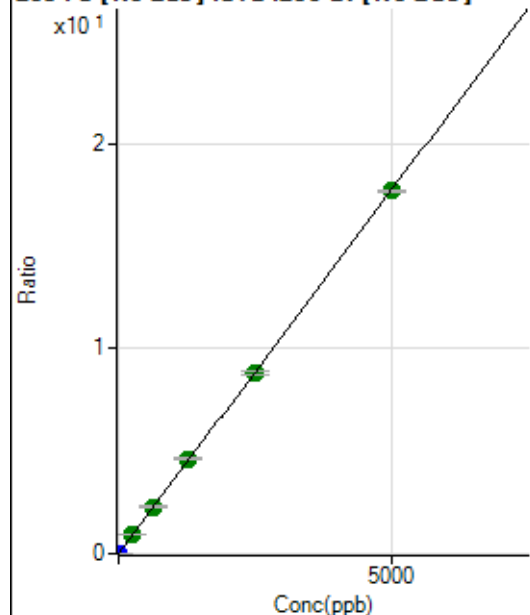
$$DL = 0.02245$$

$$BEC = 0.1204$$

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	3698.42	0.0004	P	0.6
2	☐	1.000	0.922	32232.90	0.0037	P	1.7
3	☐	250.000	255.572	7984821.67	0.9071	A	1.6
4	☐	625.000	642.547	19852130.39	2.2798	A	3.0
5	☐	1250.000	1306.688	39661227.45	4.6359	A	2.5
6	☐	2500.000	2489.501	77958172.81	8.8319	A	1.7
7	☐	5000.000	4988.606	156350323.8	17.6974	A	0.4
8	☐			72394.68	0.0093	P	4.0

$$y = 0.0035 * x + 4.2914\text{E-}004$$

$$R = 0.9999$$

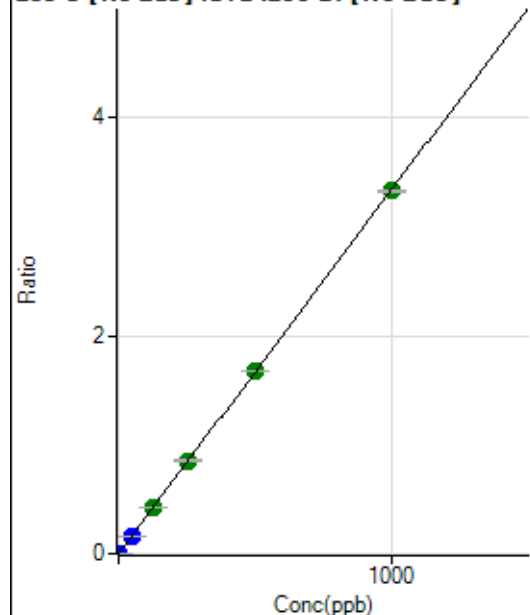
$$DL = 0.002064$$

$$BEC = 0.121$$

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	119.45	0.0000	P	19.7
2	☐	1.000	0.853	24919.42	0.0029	P	2.2
3	☐	50.000	46.100	1354211.10	0.1539	P	2.2
4	☐	125.000	127.276	3700317.10	0.4248	A	1.7
5	☐	250.000	254.661	7271287.14	0.8499	A	2.5
6	☐	500.000	503.091	14821690.09	1.6790	A	0.6
7	☐	1000.000	997.200	29403219.06	3.3280	A	0.7
8	☐			3972.95	0.0005	P	3.6

$$y = 0.0033 * x + 1.3851E-005$$

$$R = 1.0000$$

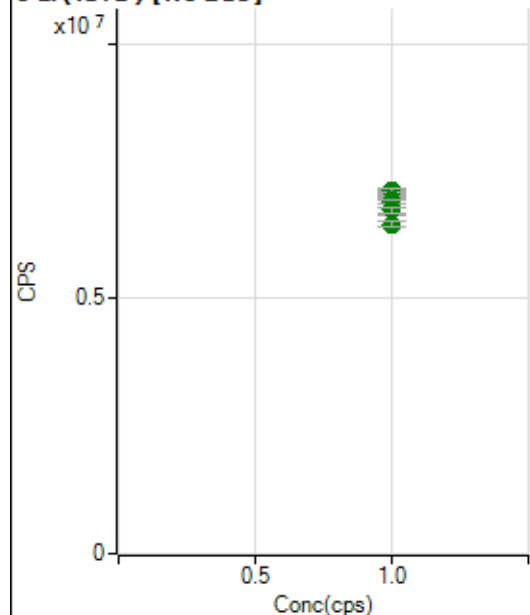
$$DL = 0.002452$$

$$BEC = 0.00415$$

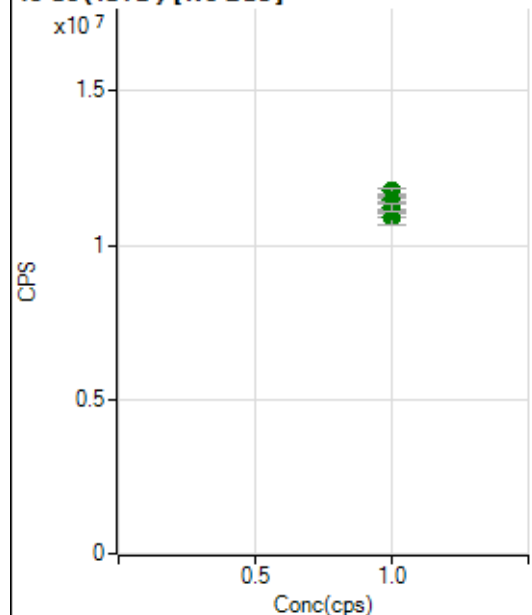
Weight: <None>

Min Conc: 0

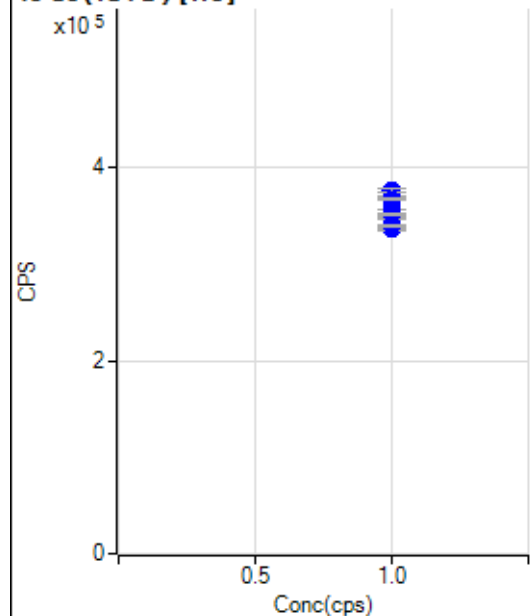
6 Li (ISTD) [No Gas]



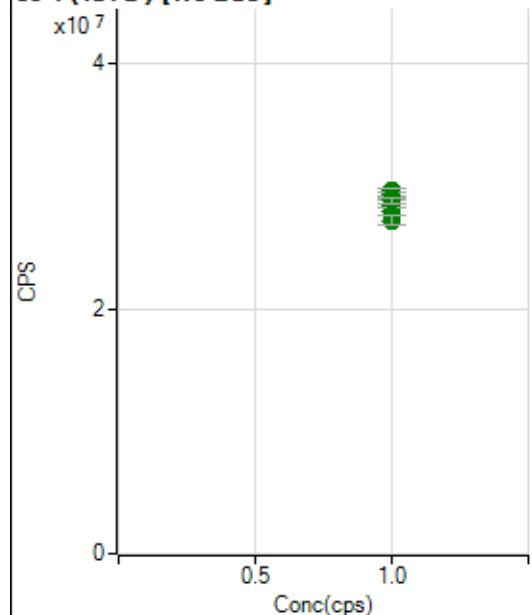
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7076071.05		A	0.1
2	☐	1.000		7106697.92		A	1.1
3	☐	1.000		7117773.79		A	1.2
4	☐	1.000		6940606.23		A	2.6
5	☐	1.000		6808208.80		A	4.7
6	☐	1.000		6901372.58		A	0.8
7	☐	1.000		6740191.24		A	2.0
8	☐	1.000		6468472.38		A	1.6

45 Sc (ISTD) [No Gas]

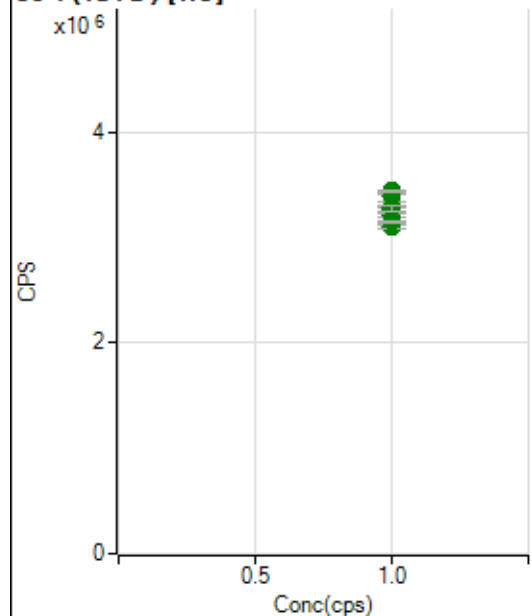
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11611206.08		A	1.0
2	☐	1.000		11758196.35		A	1.7
3	☐	1.000		11493258.72		A	2.3
4	☐	1.000		11020859.42		A	1.8
5	☐	1.000		10884053.80		A	4.2
6	☐	1.000		11090191.09		A	1.0
7	☐	1.000		11378651.08		A	0.3
8	☐	1.000		11224849.63		A	1.9

45 Sc (ISTD) [He]

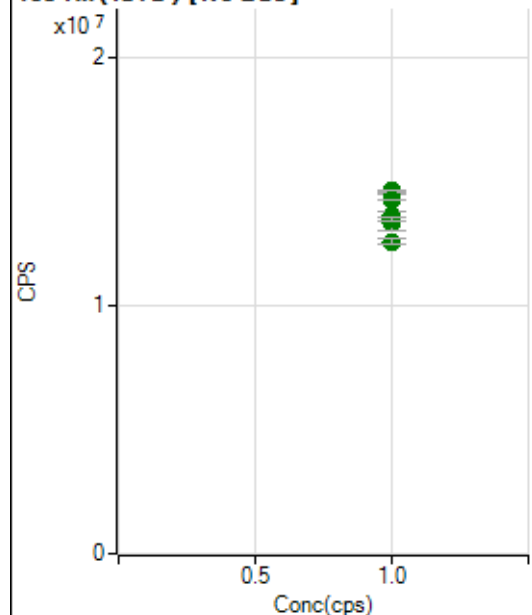
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		368070.04		P	1.4
2	☐	1.000		375616.53		P	0.9
3	☐	1.000		356814.81		P	0.2
4	☐	1.000		346705.84		P	0.7
5	☐	1.000		335911.12		P	0.6
6	☐	1.000		339759.05		P	0.7
7	☐	1.000		351729.58		P	0.4
8	☐	1.000		366970.31		P	0.3

89 Y (ISTD) [No Gas]

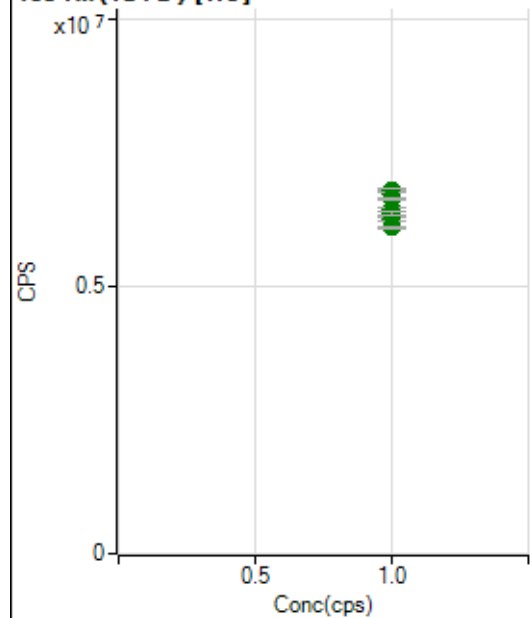
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		29339343.73		A	1.6
2	☐	1.000		29614716.51		A	1.0
3	☐	1.000		29008282.62		A	0.1
4	☐	1.000		27940848.75		A	1.9
5	☐	1.000		27162082.10		A	2.9
6	☐	1.000		28380417.91		A	1.3
7	☐	1.000		28976275.40		A	1.1
8	☐	1.000		28827780.13		A	1.5

89 Y (ISTD) [He]

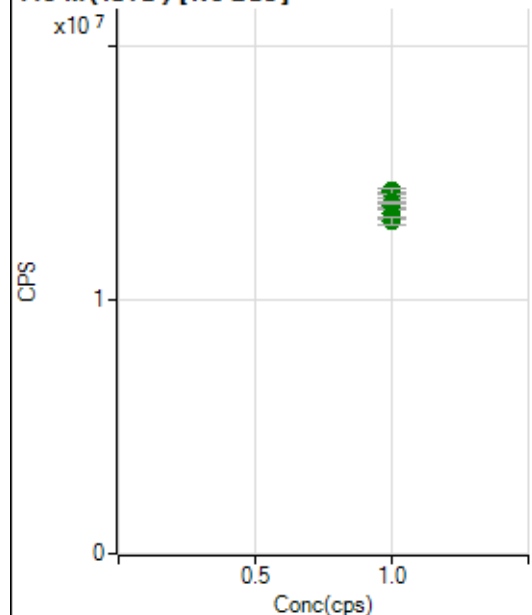
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3390647.97		A	2.8
2	☐	1.000		3428191.03		A	0.6
3	☐	1.000		3258092.97		A	1.5
4	☐	1.000		3208514.50		A	1.3
5	☐	1.000		3104890.89		A	1.3
6	☐	1.000		3147849.64		A	0.8
7	☐	1.000		3274123.42		A	1.4
8	☐	1.000		3440120.92		A	0.6

103 Rh (ISTD) [No Gas]

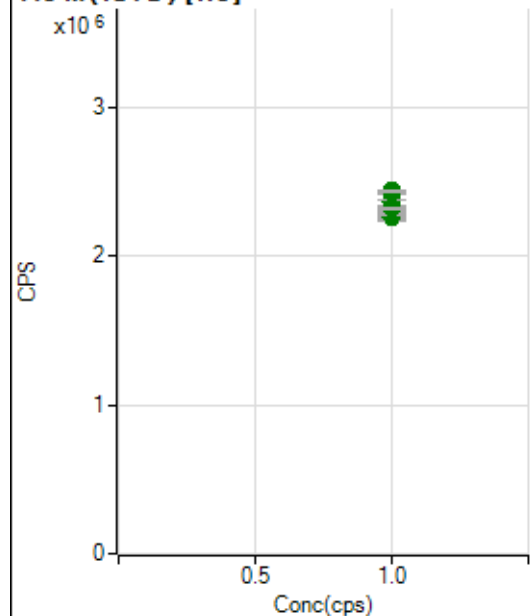
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		14591903.62		A	1.0
2	☐	1.000		14646645.64		A	0.7
3	☐	1.000		14279718.03		A	0.4
4	☐	1.000		13636485.98		A	3.1
5	☐	1.000		13341296.57		A	4.1
6	☐	1.000		13587449.09		A	0.2
7	☐	1.000		13546075.04		A	1.1
8	☐	1.000		12608126.75		A	2.3

103 Rh (ISTD) [He]

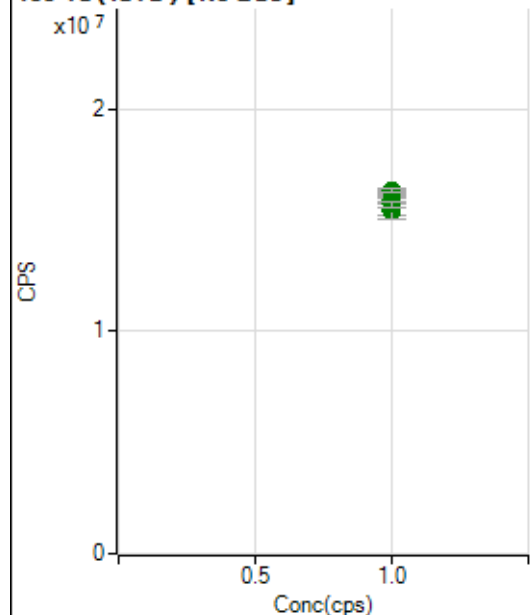
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6715586.91		A	2.0
2	☐	1.000		6782126.98		A	1.1
3	☐	1.000		6636486.01		A	0.7
4	☐	1.000		6424807.06		A	1.0
5	☐	1.000		6261651.71		A	1.2
6	☐	1.000		6352561.37		A	1.8
7	☐	1.000		6352561.43		A	1.1
8	☐	1.000		6104342.41		A	0.7

115 In (ISTD) [No Gas]

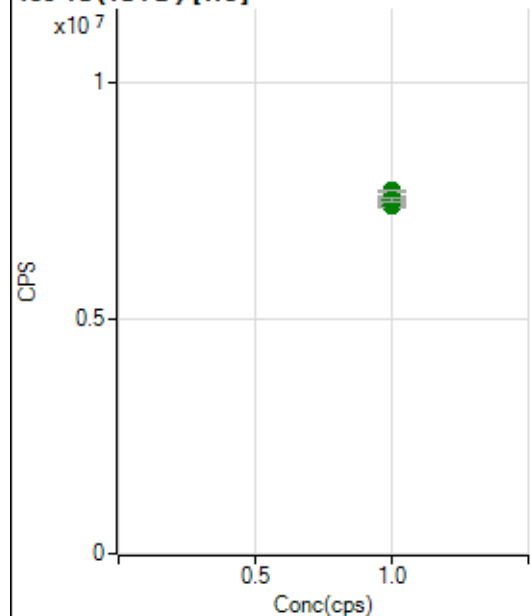
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		14237920.33		A	0.3
2	☐	1.000		14292567.18		A	1.6
3	☐	1.000		14315031.89		A	1.7
4	☐	1.000		13869150.92		A	2.5
5	☐	1.000		13454869.61		A	3.2
6	☐	1.000		13714882.61		A	1.4
7	☐	1.000		13830351.92		A	0.5
8	☐	1.000		13148030.91		A	2.3

115 In (ISTD) [He]

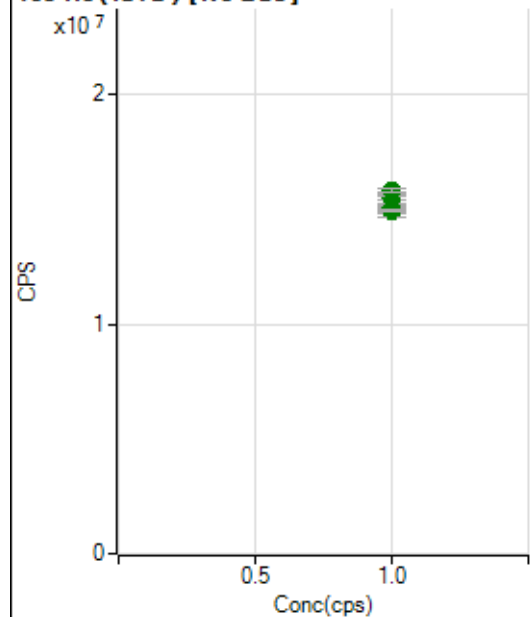
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2435894.89		A	1.0
2	☐	1.000		2441437.72		A	0.5
3	☐	1.000		2361832.86		A	1.1
4	☐	1.000		2308804.21		A	2.3
5	☐	1.000		2260090.08		A	0.9
6	☐	1.000		2268082.99		A	2.8
7	☐	1.000		2282865.06		A	0.9
8	☐	1.000		2326707.16		A	0.5

159 Tb (ISTD) [No Gas]

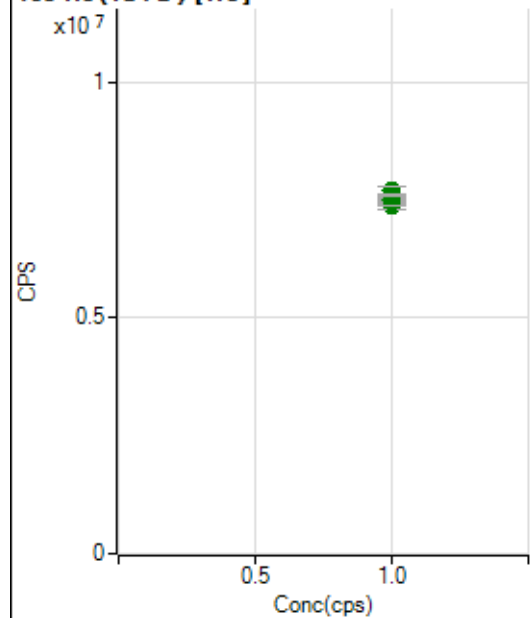
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		15703115.05		A	1.4
2	☐	1.000		15880136.43		A	1.5
3	☐	1.000		16129487.96		A	1.2
4	☐	1.000		15442968.52		A	3.4
5	☐	1.000		15418659.08		A	4.8
6	☐	1.000		16234650.31		A	1.3
7	☐	1.000		16303553.37		A	1.1
8	☐	1.000		15696623.52		A	1.8

159 Tb (ISTD) [He]

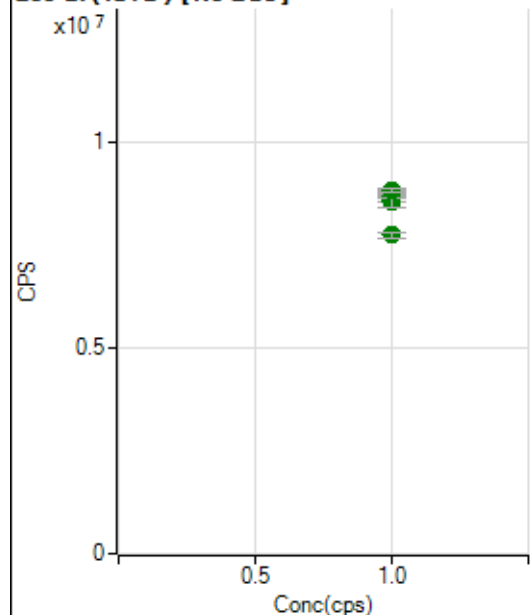
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7495846.56		A	3.1
2	☐	1.000		7492154.27		A	0.5
3	☐	1.000		7471375.17		A	0.8
4	☐	1.000		7433588.71		A	0.9
5	☐	1.000		7394944.27		A	1.5
6	☐	1.000		7469270.72		A	1.0
7	☐	1.000		7709056.62		A	0.4
8	☐	1.000		7516972.39		A	1.0

165 Ho (ISTD) [No Gas]

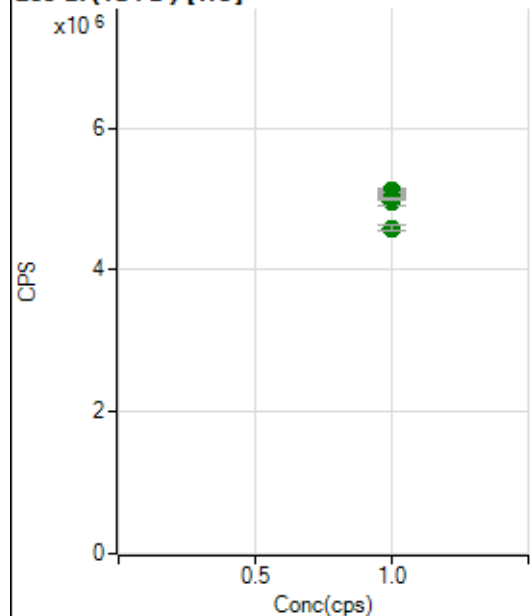
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		15135778.29		A	0.5
2	☐	1.000		15054184.19		A	0.6
3	☐	1.000		15500717.88		A	1.5
4	☐	1.000		14925730.54		A	3.7
5	☐	1.000		15023778.81		A	3.1
6	☐	1.000		15599568.06		A	0.7
7	☐	1.000		15788254.17		A	1.0
8	☐	1.000		14941744.43		A	0.7

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7365553.99		A	1.5
2	☐	1.000		7449057.95		A	1.1
3	☐	1.000		7442118.78		A	0.8
4	☐	1.000		7491671.90		A	1.1
5	☐	1.000		7455621.63		A	0.7
6	☐	1.000		7498093.92		A	2.7
7	☐	1.000		7692846.21		A	2.2
8	☐	1.000		7600303.57		A	0.7

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8617980.98		A	0.6
2	☐	1.000		8715437.02		A	1.6
3	☐	1.000		8803843.76		A	2.2
4	☐	1.000		8713834.31		A	3.6
5	☐	1.000		8559405.70		A	2.9
6	☐	1.000		8828046.33		A	1.2
7	☐	1.000		8834939.24		A	1.1
8	☐	1.000		7759145.16		A	2.0

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5097890.41		A	1.9
2	☐	1.000		5111543.88		A	0.5
3	☐	1.000		5059479.58		A	0.9
4	☐	1.000		5074952.94		A	0.6
5	☐	1.000		4984839.05		A	0.4
6	☐	1.000		4948011.59		A	1.4
7	☐	1.000		5004760.72		A	0.7
8	☐	1.000		4585926.53		A	1.6

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8092821 MS.b
Acq. Date-Time 2021-09-28 17:34:04
Report Comment ---
Instrument Name G8403A SG19224459

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		19195	191948.02			1.162	5.000
24		161279	1612786.50			1.246	5.000
25		21693	216928.22			1.459	5.000
26		24716	247155.53			1.255	5.000
59		38896	388958.81			1.283	5.000
113		15648	156475.46			1.261	5.000
115		49270	492695.78			1.052	5.000
206		17994	179939.49			1.444	5.000
207		15132	151322.59			1.711	5.000
208		37760	377597.08			1.306	5.000
220		1	6.70			20.163	

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

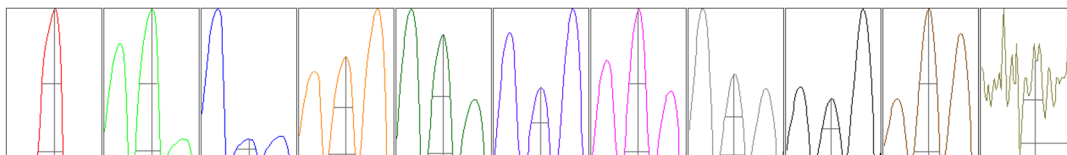
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	19367	19375	19089	19289	18854
24	161388	162596	163113	161339	157957
25	21861	21950	21622	21861	21170
26	24805	24931	24451	25056	24335
59	39026	39288	38747	39315	38104
113	15614	15547	15627	15982	15468
115	48645	49362	49115	50069	49157
206	17879	18090	17914	18387	17700
207	14977	15021	15102	15586	14975
208	37402	37805	38017	38410	37164

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	33592.68	9.05	8.90 - 9.10	
24	282175.44	24.05	23.90 - 24.10	
25	36732.38	25.05	24.90 - 25.10	
26	42901.63	26.00	25.90 - 26.10	
59	72333.98	59.00	58.90 - 59.10	
113	30425.13	113.00	112.90 - 113.10	
115	97135.19	115.00	114.90 - 115.10	
206	33976.95	205.95	205.90 - 206.10	
207	28574.27	206.95	206.90 - 207.10	
208	70979.65	207.95	207.90 - 208.10	
220	0.85	220.25	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.61	0.780	0.900	
24	0.59	0.784	0.900	
25	0.60	0.785	0.900	
26	0.61	0.828	0.900	
59	0.57	0.776	0.900	
113	0.53	0.702	0.900	
115	0.52	0.768	0.900	
206	0.54	0.787	0.900	
207	0.54	0.785	0.900	
208	0.54	0.815	0.900	
220	0.63	1.607		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.75 L/min Dilution Gas 0.40 L/min

US EPA Tune Check Report

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

Lens Parameters

Extract 1	-6.0 V	Omega Lens	9.5 V	Deflect	15.8 V
Extract 2	-210.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-95 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	160 V		

QP Parameters

Mass Gain	123	Axis Gain	0.9992	QP Bias	-4.0 V
Mass Offset	124	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	1.0 mm	Torch V	-0.8 mm
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EM

Discriminator	4.0 mV	Analog HV	2241 V	Pulse HV	1520 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		8211	82112.46			0.827	
89		29824	298242.23			0.710	
205		17912	179123.07			0.979	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	8143	8168	8320	8201	8224
89	29652	30024	30084	29701	29660
205	17772	17821	18216	17874	17878

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.75 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	9.5 V	Deflect	4.2 V
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US EPA Tune Check Report

Extract 2	-210.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-95 V	Cell Exit	-70 V		
Cell Parameters					
Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	4.5 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		
QP Parameters					
Mass Gain	123	Axis Gain	0.9992	QP Bias	-13.0 V
Mass Offset	124	Axis Offset	-0.01		
Hardware Settings					
Torch					
Torch H	1.0 mm	Torch V	-0.8 mm		
EM					
Discriminator	4.0 mV	Analog HV	2241 V	Pulse HV	1520 V