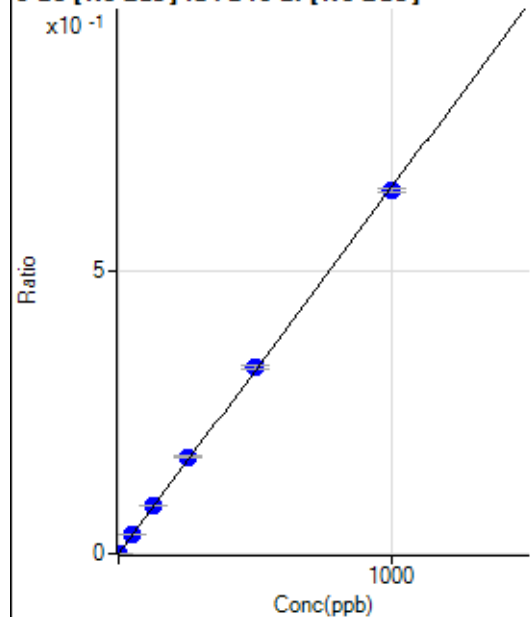


Batch Folder: D:\Agilent\ICPMH\1\DATA\P7050223 MS.b\
Analysis File: P7050223 MS.batch.bin
DA Date-Time: 2023-05-03 09:04:55
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2023-05-02 12:44:46
2	005CALS.d	S02	2023-05-02 12:48:01
3	006CALS.d	S03	2023-05-02 12:51:19
4	007CALS.d	S04	2023-05-02 12:54:27
5	008CALS.d	S05	2023-05-02 12:57:29
6	009CALS.d	S06	2023-05-02 13:00:22
7	010CALS.d	S07	2023-05-02 13:03:13
8	011CALS.d	S08	2023-05-02 13:05:59

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	41.11	0.0000	P	29.9
2	☐	1.000	1.161	1318.96	0.0008	P	7.8
3	☐	50.000	54.655	60791.57	0.0353	P	0.4
4	☐	125.000	129.906	142457.81	0.0839	P	1.1
5	☐	250.000	263.681	275673.51	0.1703	P	1.2
6	☐	500.000	510.363	530170.30	0.3296	P	1.5
7	☐	1000.000	990.552	1009251.82	0.6396	P	1.2
8	☐			516.68	0.0004	P	21.3

$$y = 6.4567\text{E-}004 * x + 2.3895\text{E-}005$$

$$R = 0.9998$$

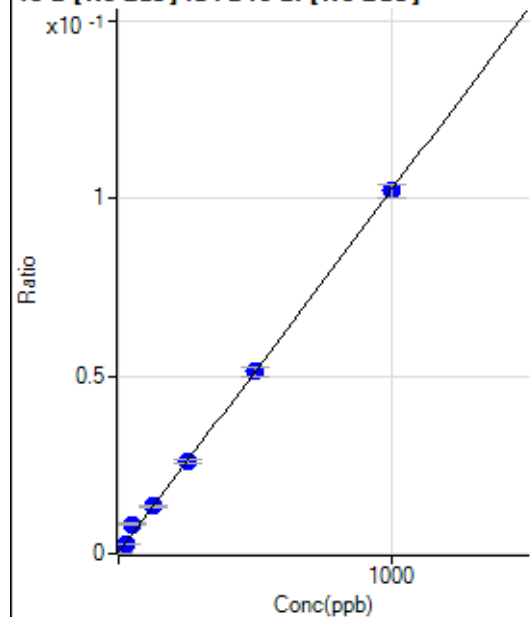
$$DL = 0.03317$$

$$BEC = 0.03701$$

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	473.35	0.0003	P	10.6
2	☐	25.000	24.501	4725.20	0.0028	P	6.5
3	☐	50.000	77.988	14164.33	0.0082	P	3.8
4	☐	125.000	127.375	22517.53	0.0133	P	4.6
5	☐	250.000	254.138	42402.19	0.0262	P	3.9
6	☐	500.000	498.673	82236.43	0.0511	P	5.0
7	☐	1000.000	997.945	160983.72	0.1020	P	3.6
8	☐			4775.23	0.0034	P	10.1

$$y = 1.0198\text{E-}004 * x + 2.7463\text{E-}004$$

$$R = 0.9996$$

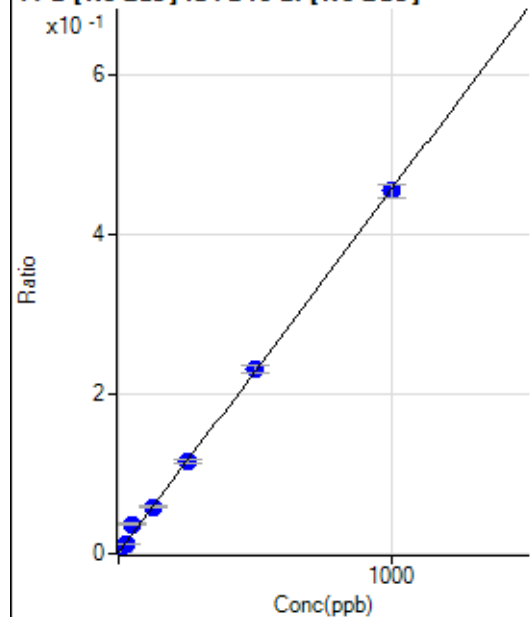
$$DL = 0.8526$$

$$BEC = 2.693$$

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	2211.29	0.0013	P	5.7
2	☐	25.000	24.204	20958.72	0.0123	P	6.1
3	☐	50.000	77.608	63022.04	0.0366	P	4.3
4	☐	125.000	126.431	99871.39	0.0588	P	4.7
5	☐	250.000	253.507	188882.56	0.1167	P	3.9
6	☐	500.000	503.151	370450.45	0.2303	P	4.2
7	☐	1000.000	996.008	717249.80	0.4546	P	3.7
8	☐			20843.16	0.0150	P	13.3

$$y = 4.5518\text{E-}004 * x + 0.0013$$

$$R = 0.9996$$

$$DL = 0.484$$

$$BEC = 2.817$$

Weight: <None>

Min Conc: 0

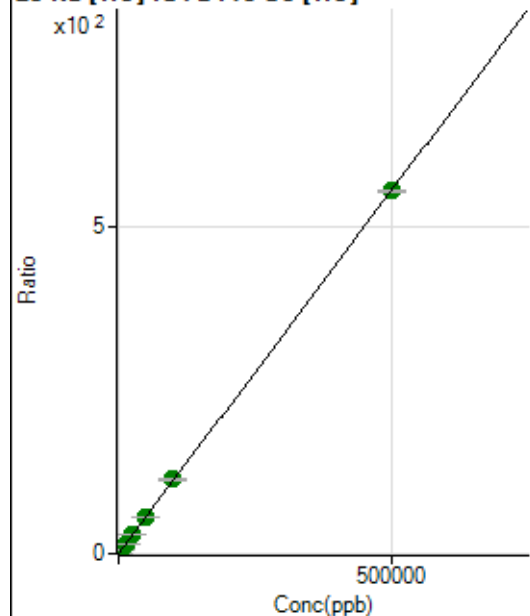
12 C [No Gas] No available calibration points



	Rj 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	5345.41	0.0198	P	2.4
2	☐	500.000	560.914	173966.10	0.6420	P	0.3
3	☐	5000.000	5297.483	1577593.14	5.8960	A	1.9
4	☐	12500.000	12855.542	3677305.99	14.2799	A	1.3
5	☐	25000.000	25857.864	7177111.14	28.7028	A	1.3
6	☐	50000.000	51283.095	14132167.29	56.9059	A	0.8
7	☐	100000.00	101920.09	27581059.87	113.0753	A	1.9
8	☐	500000.00	499432.85	123097034.8	554.0192	A	0.3

$$y = 0.0011 * x + 0.0198$$

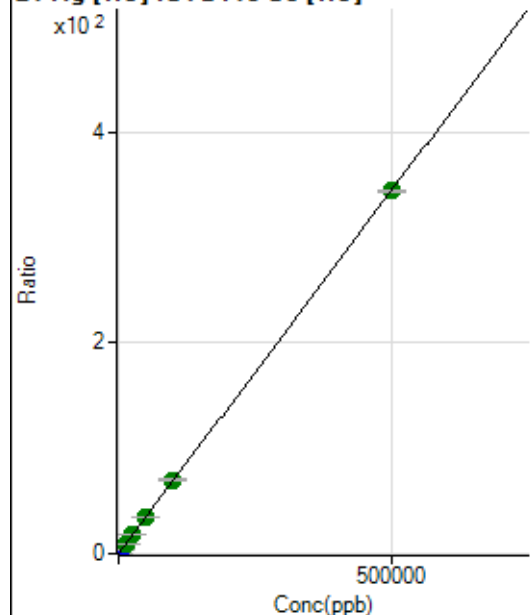
$$R = 1.0000$$

$$DL = 1.264$$

$$BEC = 17.81$$

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	265.56	0.0010	P	7.4
2	☐	500.000	554.752	103875.04	0.3833	P	0.7
3	☐	5000.000	5510.557	1016527.06	3.7988	P	0.3
4	☐	12500.000	13002.307	2307673.32	8.9620	A	0.7
5	☐	25000.000	25858.886	4456436.25	17.8226	A	0.7
6	☐	50000.000	51211.978	8765335.43	35.2957	A	1.5
7	☐	100000.00	101534.59	17068783.08	69.9774	A	1.6
8	☐	500000.00	499511.22	76492179.97	344.2583	A	0.8

$$y = 6.8919\text{E-}004 * x + 9.8121\text{E-}004$$

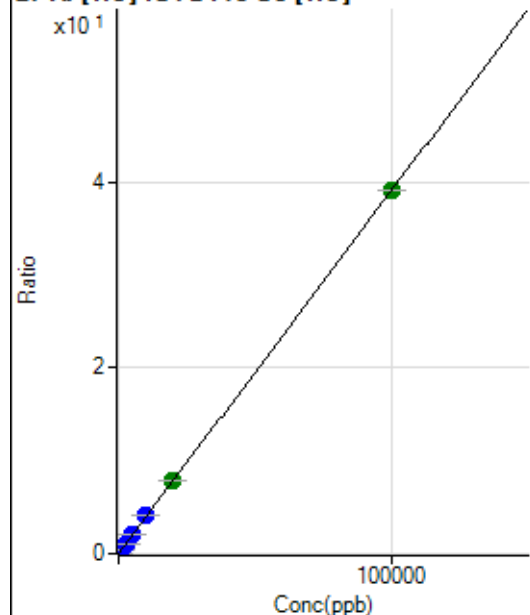
$$R = 1.0000$$

$$DL = 0.3163$$

$$BEC = 1.424$$

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	40.00	0.0001	P	50.9
2	☐	20.000	22.826	2459.11	0.0091	P	2.6
3	☐	1000.000	1091.803	114287.92	0.4271	P	0.3
4	☐	2500.000	2612.775	263118.46	1.0219	P	1.0
5	☐	5000.000	5266.525	515001.79	2.0596	P	0.4
6	☐	10000.000	10493.398	1019093.76	4.1035	P	0.1
7	☐	20000.000	20112.003	1918394.87	7.8648	A	1.4
8	☐	100000.00	99911.195	8680902.86	39.0696	A	0.1

$$y = 3.9104\text{E-}004 * x + 1.4792\text{E-}004$$

$$R = 1.0000$$

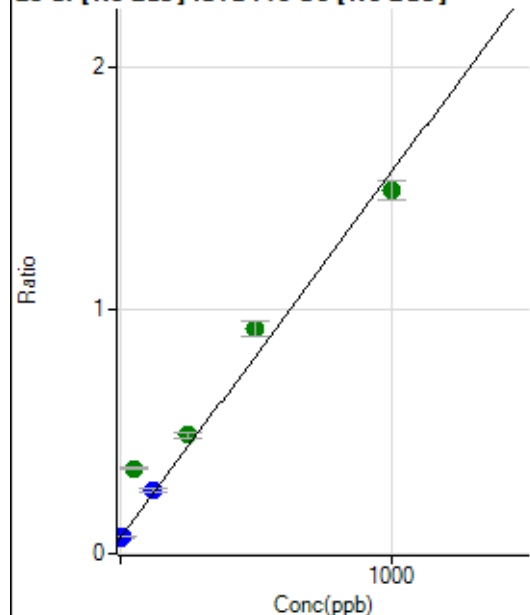
$$DL = 0.5775$$

$$BEC = 0.3783$$

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	215359.64	0.0606	P	0.4
2	☐	10.000	7.208	251228.68	0.0715	P	0.6
3	☐	50.000	192.066	1233882.64	0.3501	A	1.6
4	☐	125.000	134.510	906598.25	0.2634	P	6.4
5	☐	250.000	282.511	1610122.18	0.4864	A	5.0
6	☐	500.000	572.330	3042873.43	0.9233	A	7.5
7	☐	1000.000	947.443	4847048.50	1.4887	A	5.3
8	☐			1377970.18	0.4688	A	10.1

$$y = 0.0015 * x + 0.0606$$

$$R = 0.9860$$

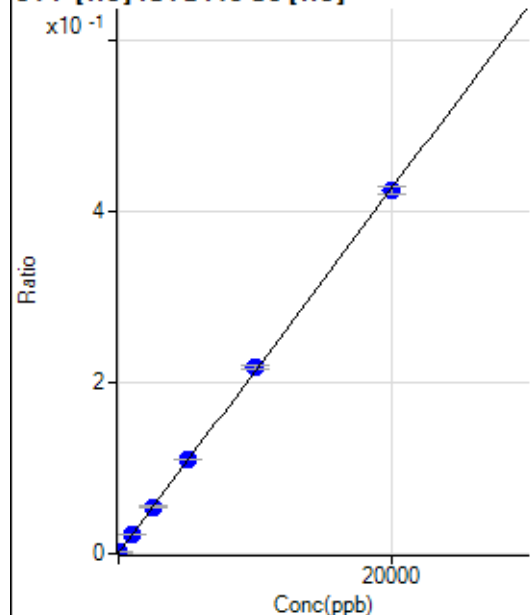
$$DL = 0.4679$$

$$BEC = 40.2$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	-10.557	227.78	0.0008	P	5.4
2	☐	0.000	10.557	350.01	0.0013	P	7.9
3	☐	1000.000	1030.323	6162.40	0.0230	P	2.0
4	☐	2500.000	2529.178	14157.75	0.0550	P	2.3
5	☐	5000.000	5138.069	27655.05	0.1106	P	0.6
6	☐	10000.000	10175.456	54135.24	0.2180	P	1.5
7	☐	20000.000	19872.591	103587.06	0.4247	P	2.1
8	☐			215.56	0.0010	P	6.1

$$y = 2.1317E-005 * x + 0.0011$$

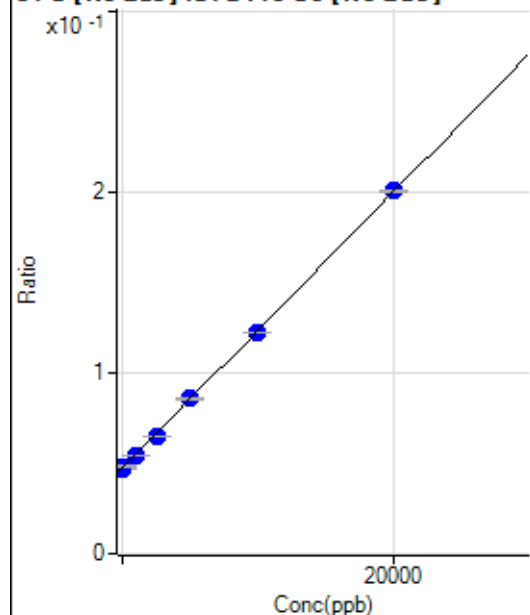
$$R = 0.9999$$

$$DL = 10.4$$

$$BEC = 50.04$$

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	-82.398	166164.53	0.0468	P	0.1
2	☐	0.000	82.398	168758.94	0.0480	P	2.4
3	☐	1000.000	888.236	190833.17	0.0541	P	0.6
4	☐	2500.000	2311.022	223853.32	0.0650	P	0.9
5	☐	5000.000	5049.991	284180.39	0.0858	P	1.2
6	☐	10000.000	9837.675	403229.93	0.1223	P	0.4
7	☐	20000.000	20097.875	652963.07	0.2005	P	0.7
8	☐			136647.52	0.0464	P	1.2

$$y = 7.6171E-006 * x + 0.0474$$

R = 0.9999

DL = 238.4

BEC = 6220

Weight: <None>

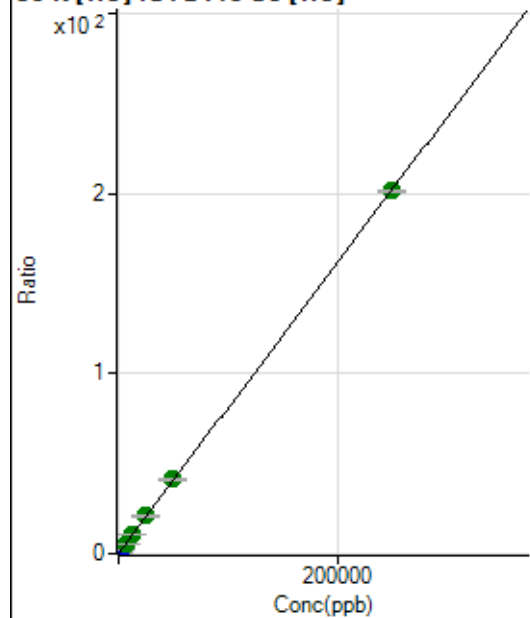
Min Conc: 0

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	35633.90	0.1317	P	1.7
2	☐	500.000	570.986	160482.11	0.5922	P	0.4
3	☐	2500.000	2824.505	644805.20	2.4096	P	0.6
4	☐	6250.000	6354.456	1353608.23	5.2566	A	1.3
5	☐	12500.000	12788.351	2611790.95	10.4455	A	1.4
6	☐	25000.000	25690.646	5178375.93	20.8512	A	0.5
7	☐	50000.000	50864.431	10037480.33	41.1539	A	2.1
8	☐	250000.00	249737.63	44781647.11	201.5452	A	0.4

$$y = 8.0650E-004 * x + 0.1317$$

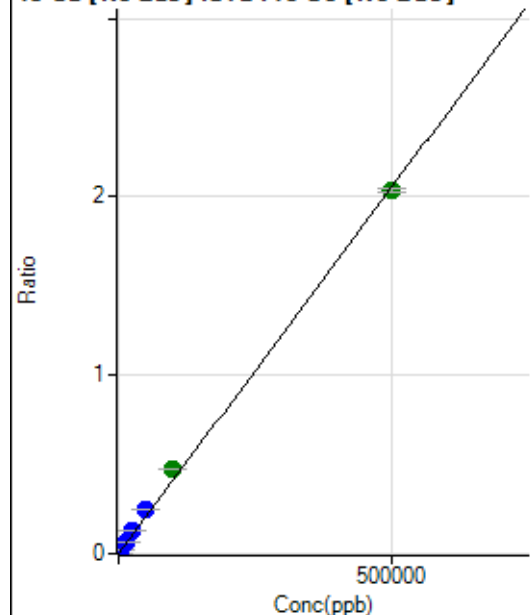
$$R = 1.0000$$

$$DL = 8.151$$

$$BEC = 163.3$$

Weight: <None>

Min Conc: 0

43 Ca [No Gas] ISTD:45 Sc [No Gas]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	82.22	0.0000	P	20.3
2	☐	500.000	580.037	8452.42	0.0024	P	2.6
3	☐	5000.000	6311.238	91384.15	0.0259	P	0.5
4	☐	12500.000	15316.395	216615.80	0.0629	P	2.2
5	☐	25000.000	31066.742	422220.21	0.1275	P	0.8
6	☐	50000.000	61232.888	828662.92	0.2514	P	0.7
7	☐	100000.00	115241.20	1540875.69	0.4731	A	1.0
8	☐	500000.00	495441.53	5983449.49	2.0337	A	1.0

$$y = 4.1047\text{E-}006 * x + 2.3116\text{E-}005$$

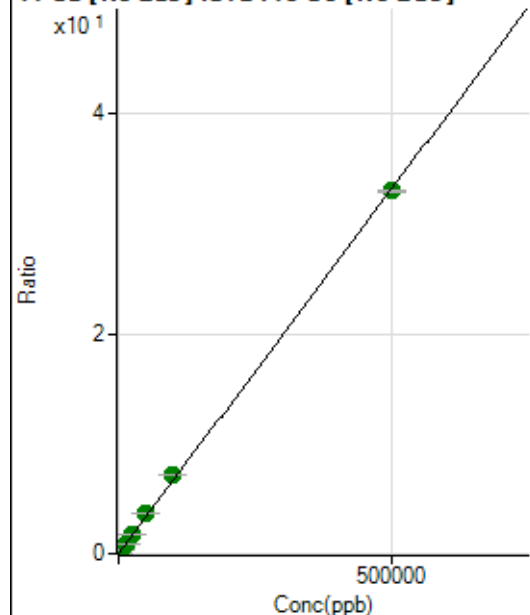
$$R = 0.9993$$

$$DL = 3.422$$

$$BEC = 5.632$$

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	10849.55	0.0031	P	1.2
2	☐	500.000	582.438	146307.56	0.0416	P	0.9
3	☐	5000.000	5455.090	1283760.58	0.3642	A	0.9
4	☐	12500.000	13465.133	3081215.30	0.8946	A	2.0
5	☐	25000.000	27325.359	5999393.45	1.8123	A	0.8
6	☐	50000.000	54386.636	11881154.96	3.6040	A	0.7
7	☐	100000.00	108584.09	23427891.32	7.1925	A	0.4
8	☐	500000.00	497699.48	96965534.11	32.9560	A	0.8

$$y = 6.6211\text{E-}005 * x + 0.0031$$

$$R = 0.9998$$

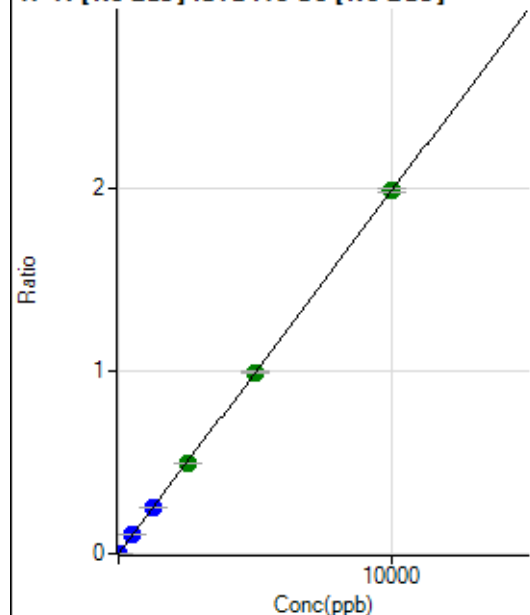
$$DL = 1.713$$

$$BEC = 46.11$$

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	53.33	0.0000	P	11.9
2	☐	5.000	5.311	3757.17	0.0011	P	2.4
3	☐	500.000	522.433	365289.61	0.1036	P	0.4
4	☐	1250.000	1261.550	861972.79	0.2503	P	1.9
5	☐	2500.000	2496.119	1639206.10	0.4951	A	0.3
6	☐	5000.000	4989.885	3263017.87	0.9898	A	1.0
7	☐	10000.000	10003.462	6463148.80	1.9843	A	1.0
8	☐			1357.85	0.0005	P	28.6

$$y = 1.9836E-004 * x + 1.4998E-005$$

$$R = 1.0000$$

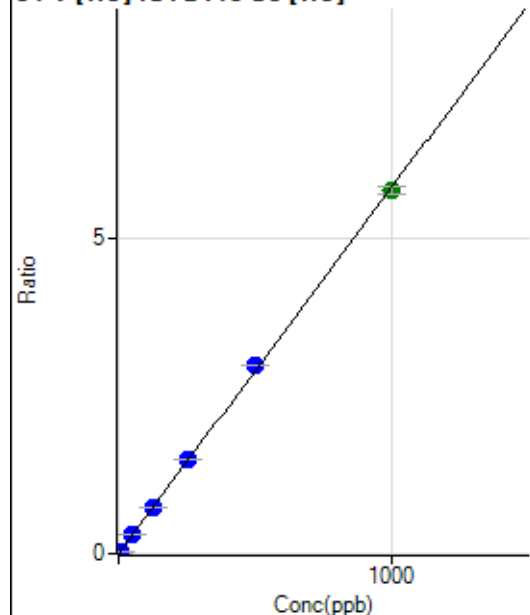
$$DL = 0.02689$$

$$BEC = 0.07561$$

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	10.00	0.0000	P	57.3
2	☐	5.000	5.233	8226.75	0.0304	P	2.8
3	☐	50.000	51.834	80381.21	0.3004	P	0.3
4	☐	125.000	126.209	188322.31	0.7314	P	0.9
5	☐	250.000	256.612	371802.30	1.4870	P	0.9
6	☐	500.000	513.469	738915.11	2.9753	P	0.2
7	☐	1000.000	991.368	1401146.18	5.7445	A	2.2
8	☐			425.56	0.0019	P	4.0

$$y = 0.0058 * x + 3.6918E-005$$

$$R = 0.9998$$

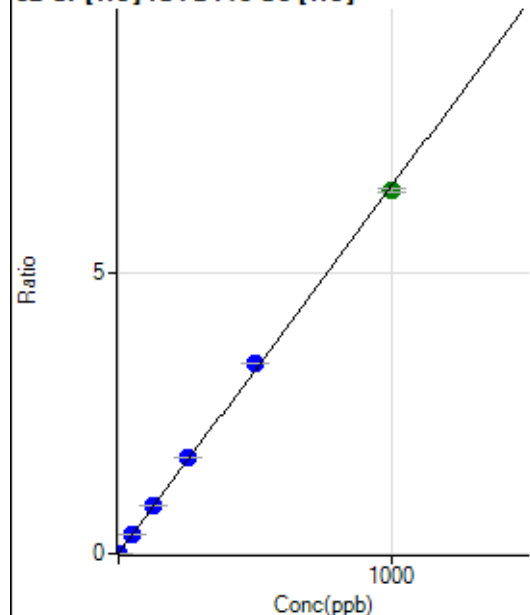
$$DL = 0.01096$$

$$BEC = 0.006371$$

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	716.69	0.0026	P	5.5
2	☐	2.000	2.122	4481.82	0.0165	P	2.6
3	☐	50.000	52.908	93407.86	0.3491	P	0.1
4	☐	125.000	129.251	218596.87	0.8489	P	0.3
5	☐	250.000	260.226	426687.98	1.7065	P	0.8
6	☐	500.000	518.989	844558.21	3.4007	P	0.1
7	☐	1000.000	987.272	1577440.43	6.4668	A	0.9
8	☐			11836.95	0.0533	P	2.4

$$y = 0.0065 * x + 0.0026$$

$$R = 0.9997$$

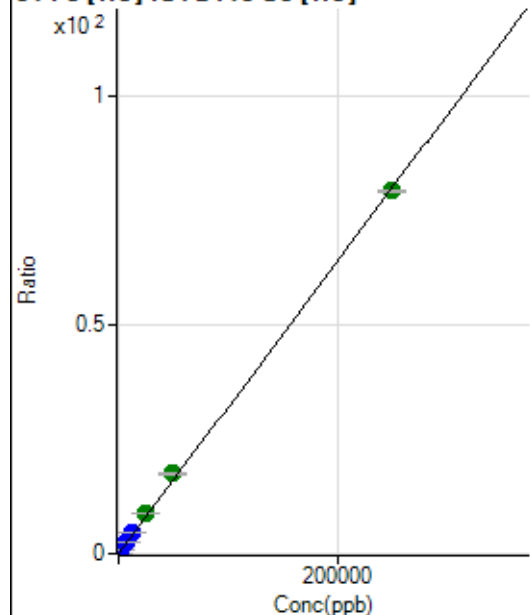
$$DL = 0.06634$$

$$BEC = 0.4044$$

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	1120.05	0.0041	P	5.0
2	☐	50.000	62.283	6501.45	0.0240	P	3.8
3	☐	2500.000	3005.930	257524.71	0.9624	P	0.1
4	☐	6250.000	7337.453	603369.89	2.3432	P	0.7
5	☐	12500.000	14822.466	1182543.17	4.7293	P	0.5
6	☐	25000.000	27883.077	2208466.11	8.8927	A	0.6
7	☐	50000.000	54987.192	4276541.60	17.5330	A	1.8
8	☐	250000.00	248565.88	17607059.32	79.2423	A	0.6

$$y = 3.1878E-004 * x + 0.0041$$

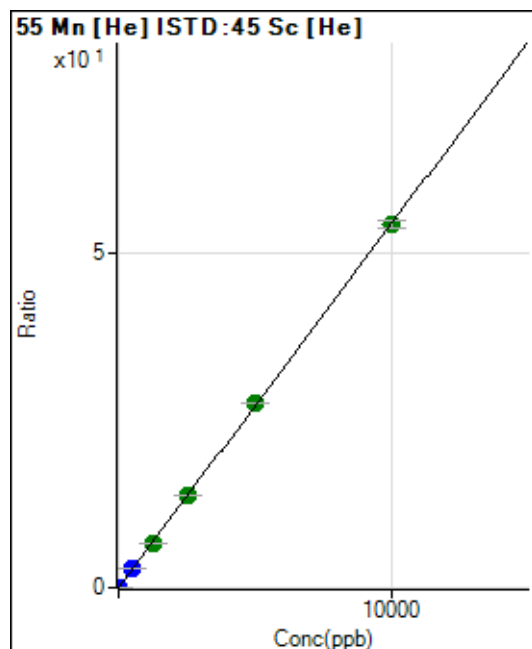
$$R = 0.9998$$

$$DL = 1.953$$

$$BEC = 12.98$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	81.11	0.0003	P	18.2
2	☐	1.000	1.082	1674.55	0.0062	P	2.8
3	☐	500.000	526.168	765369.37	2.8603	P	0.7
4	☐	1250.000	1235.923	1729896.31	6.7181	A	0.6
5	☐	2500.000	2529.604	3438153.59	13.7499	A	1.1
6	☐	5000.000	5053.314	6821451.50	27.4674	A	0.2
7	☐	10000.000	9966.393	13212823.13	54.1723	A	2.1
8	☐			6318.04	0.0284	P	3.3

$$y = 0.0054 * x + 2.9963E-004$$

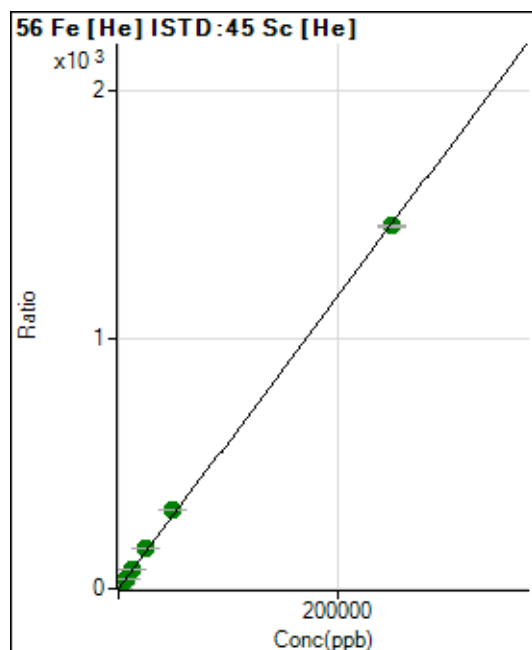
$$R = 1.0000$$

$$DL = 0.03011$$

$$BEC = 0.05512$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	8313.48	0.0307	P	3.0
2	☐	50.000	59.322	102326.88	0.3776	P	0.2
3	☐	2500.000	2782.774	4362338.93	16.3025	A	0.4
4	☐	6250.000	6764.634	10193266.10	39.5856	A	0.4
5	☐	12500.000	13747.712	20107795.95	80.4178	A	0.8
6	☐	25000.000	27393.396	39787192.19	160.2083	A	0.7
7	☐	50000.000	53951.911	76953576.63	315.5040	A	1.9
8	☐	250000.00	248892.19	323374650.7	1,455.379	A	0.5

$$y = 0.0058 * x + 0.0307$$

$$R = 0.9998$$

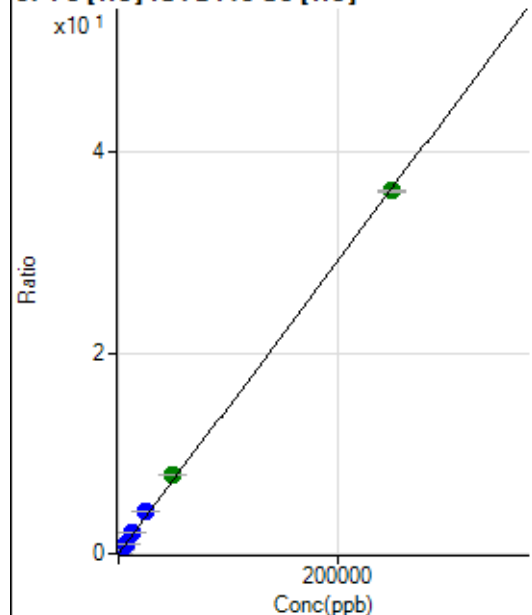
$$DL = 0.4665$$

$$BEC = 5.254$$

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	254.45	0.0009	P	16.9
2	☐	50.000	59.910	2612.47	0.0096	P	2.4
3	☐	2500.000	2927.293	113994.47	0.4260	P	0.3
4	☐	6250.000	7169.736	268323.31	1.0420	P	0.3
5	☐	12500.000	14447.398	524788.12	2.0988	P	0.7
6	☐	25000.000	28890.011	1042058.24	4.1960	P	0.5
7	☐	50000.000	54068.011	1915294.94	7.8520	A	1.1
8	☐	250000.00	248672.75	8023193.35	36.1098	A	0.4

$$y = 1.4521\text{E-}004 * x + 9.4022\text{E-}004$$

$$R = 0.9998$$

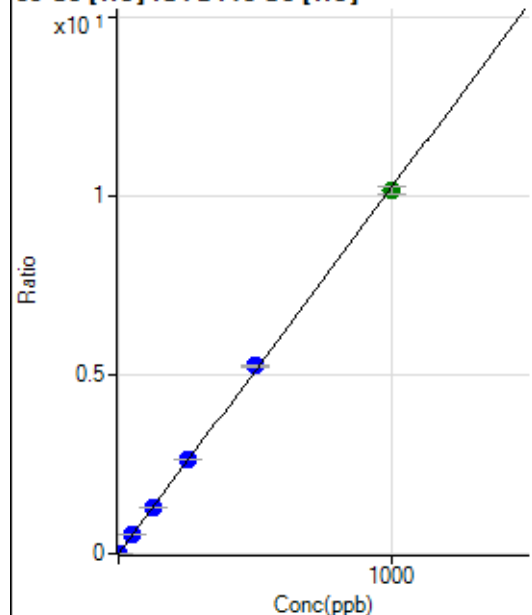
$$DL = 3.275$$

$$BEC = 6.475$$

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	34.45	0.0001	P	11.0
2	☐	1.000	1.096	3078.12	0.0114	P	1.8
3	☐	50.000	53.025	145479.23	0.5437	P	0.1
4	☐	125.000	128.212	338454.98	1.3144	P	0.2
5	☐	250.000	258.215	661843.63	2.6469	P	0.9
6	☐	500.000	512.703	1305189.73	5.2555	P	0.5
7	☐	1000.000	991.042	2477763.44	10.1587	A	2.0
8	☐			2504.68	0.0113	P	2.2

$$y = 0.0103 * x + 1.2728\text{E-}004$$

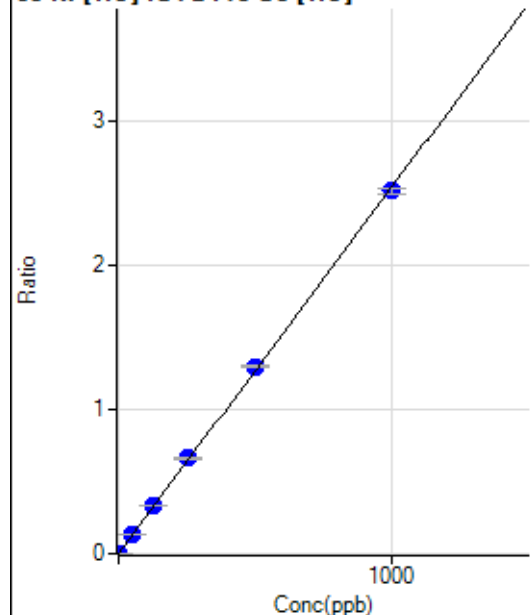
$$R = 0.9998$$

$$DL = 0.004113$$

$$BEC = 0.01242$$

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	75.55	0.0003	P	27.2
2	☐	1.000	1.287	961.15	0.0035	P	4.2
3	☐	50.000	53.258	36258.20	0.1355	P	2.0
4	☐	125.000	130.654	85496.08	0.3320	P	1.0
5	☐	250.000	260.907	165715.07	0.6628	P	1.2
6	☐	500.000	511.410	322558.22	1.2988	P	0.6
7	☐	1000.000	990.699	613643.93	2.5158	P	1.6
8	☐			1936.81	0.0087	P	2.5

$$y = 0.0025 * x + 2.7936E-004$$

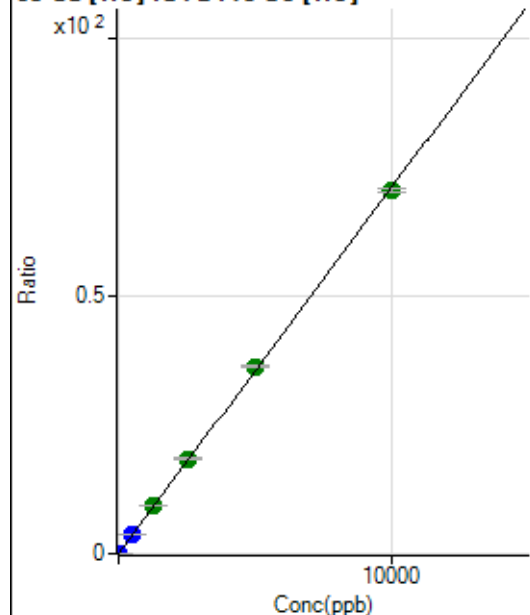
$$R = 0.9998$$

$$DL = 0.08982$$

$$BEC = 0.11$$

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	658.91	0.0024	P	7.4
2	☐	2.000	2.325	5129.82	0.0189	P	3.8
3	☐	500.000	536.857	1019838.14	3.8112	P	0.6
4	☐	1250.000	1294.633	2365668.09	9.1874	A	1.1
5	☐	2500.000	2596.945	4607416.63	18.4268	A	1.1
6	☐	5000.000	5115.241	9013388.55	36.2933	A	0.8
7	☐	10000.000	9910.721	17151662.66	70.3155	A	1.1
8	☐			2616.92	0.0118	P	3.4

$$y = 0.0071 * x + 0.0024$$

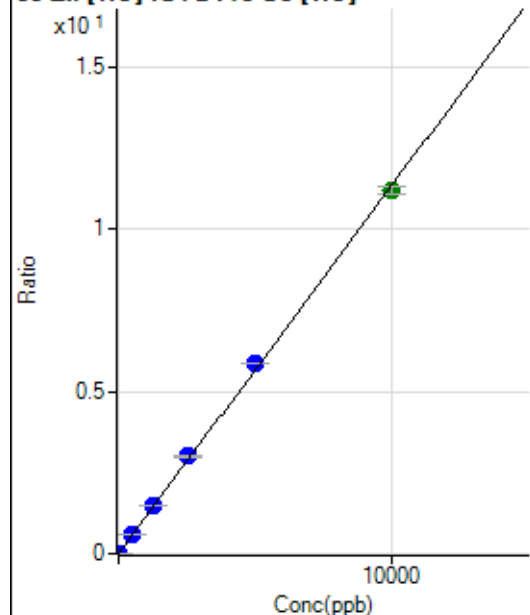
$$R = 0.9998$$

$$DL = 0.07569$$

$$BEC = 0.3432$$

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	343.34	0.0013	P	8.2
2	☐	2.000	1.860	914.48	0.0034	P	8.1
3	☐	500.000	543.786	165130.49	0.6171	P	1.0
4	☐	1250.000	1317.907	384667.55	1.4938	P	0.5
5	☐	2500.000	2639.769	747808.90	2.9909	P	1.6
6	☐	5000.000	5179.496	1457091.37	5.8672	P	0.6
7	☐	10000.000	9864.632	2725245.48	11.1733	A	2.1
8	☐			11889.24	0.0535	P	1.9

$$y = 0.0011 * x + 0.0013$$

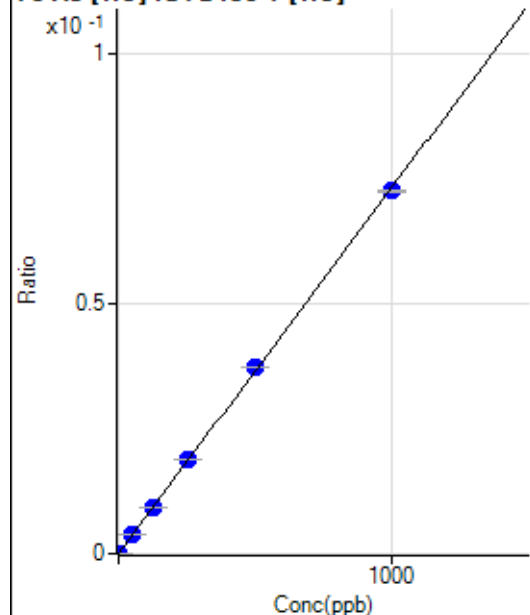
$$R = 0.9996$$

$$DL = 0.2759$$

$$BEC = 1.12$$

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	2.22	0.0000	P	173.
2	☐	1.000	1.234	250.00	0.0001	P	10.7
3	☐	50.000	52.732	10583.86	0.0039	P	1.3
4	☐	125.000	126.505	24473.55	0.0093	P	1.9
5	☐	250.000	258.288	49210.19	0.0189	P	0.9
6	☐	500.000	510.864	96620.61	0.0374	P	0.3
7	☐	1000.000	992.171	186649.79	0.0727	P	0.4
8	☐			30.00	0.0000	P	0.4

$$y = 7.3257E-005 * x + 8.0870E-007$$

$$R = 0.9999$$

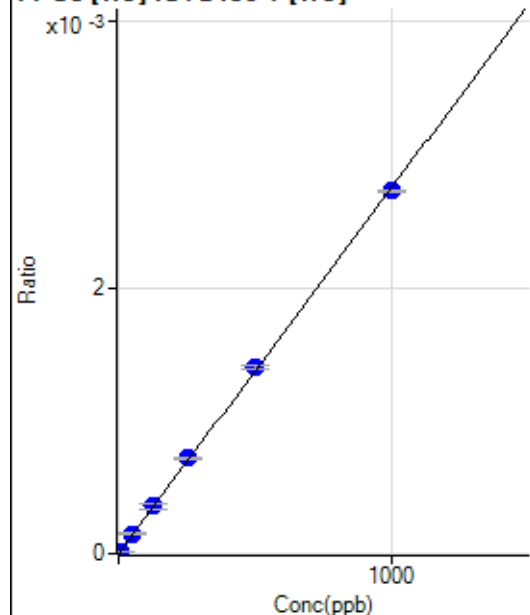
$$DL = 0.05736$$

$$BEC = 0.01104$$

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	6.632	50.00	0.0000	P	11.5
3	☐	50.000	53.996	406.67	0.0001	P	11.4
4	☐	125.000	128.953	935.60	0.0004	P	8.4
5	☐	250.000	260.874	1865.69	0.0007	P	1.7
6	☐	500.000	509.481	3617.15	0.0014	P	2.6
7	☐	1000.000	991.839	7003.93	0.0027	P	0.9
8	☐			12.22	0.0000	P	31.1

$$y = 2.7499\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9999$$

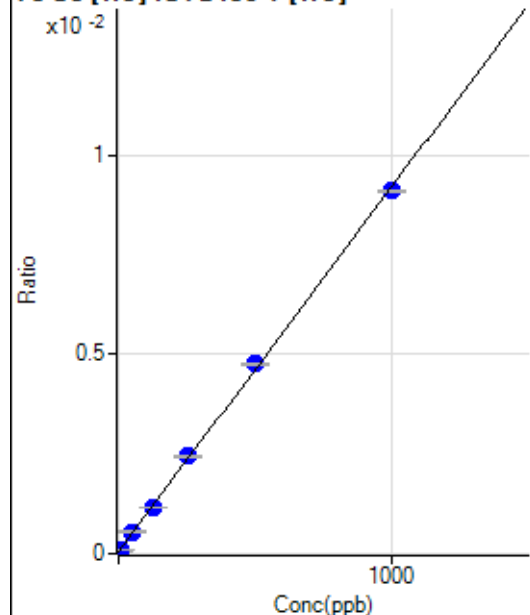
$$DL = 0$$

$$BEC = 0$$

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	144.45	0.0001	P	19.3
2	☐	5.000	6.251	301.12	0.0001	P	5.6
3	☐	50.000	54.157	1502.31	0.0005	P	4.1
4	☐	125.000	121.637	3079.24	0.0012	P	2.3
5	☐	250.000	261.997	6373.66	0.0025	P	1.4
6	☐	500.000	515.122	12308.53	0.0048	P	1.4
7	☐	1000.000	989.646	23396.36	0.0091	P	0.7
8	☐			164.45	0.0001	P	11.4

$$y = 9.1530\text{E-}006 * x + 5.2606\text{E-}005$$

$$R = 0.9997$$

$$DL = 3.334$$

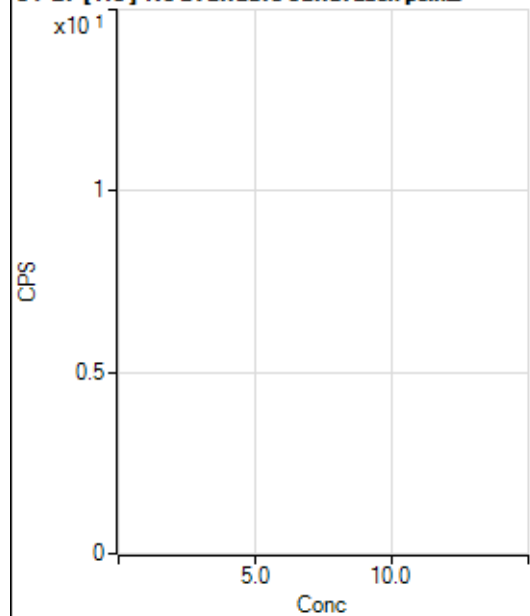
$$BEC = 5.747$$

Weight: <None>

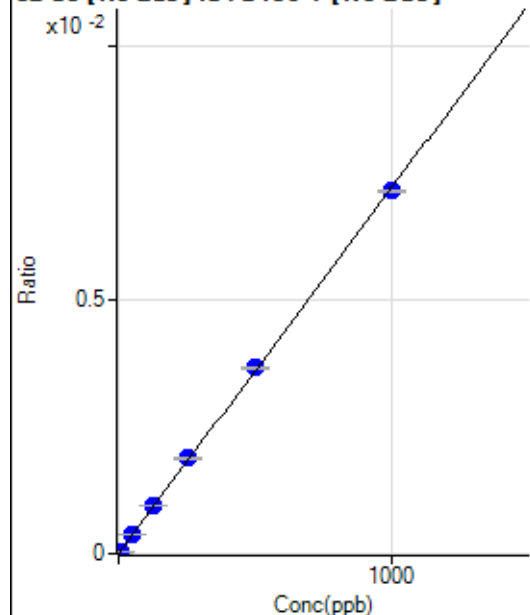
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			36683.54		P	1.2
2	☐			36597.58		P	1.0
3	☐			35435.90		P	1.6
4	☐			34160.64		P	0.7
5	☐			34529.37		P	1.5
6	☐			33832.16		P	1.9
7	☐			33296.53		P	2.0
8	☐			30561.68		P	3.9

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			66.67		P	21.8
2	☐			43.33		P	40.0
3	☐			62.22		P	45.6
4	☐			64.44		P	19.6
5	☐			77.78		P	10.8
6	☐			47.78		P	34.4
7	☐			41.11		P	26.1
8	☐			51.11		P	13.6

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	29.14	0.0000	P	117.
2	☐	5.000	5.581	488.08	0.0000	P	10.6
3	☐	50.000	53.707	4501.50	0.0004	P	1.3
4	☐	125.000	130.958	10670.31	0.0009	P	0.6
5	☐	250.000	261.404	20992.65	0.0019	P	1.3
6	☐	500.000	508.453	40600.83	0.0037	P	0.8
7	☐	1000.000	991.989	79220.09	0.0071	P	0.8
8	☐			139.76	0.0000	P	10.2

$$y = 7.2016\text{E-}006 * x + 2.4849\text{E-}006$$

$$R = 0.9999$$

$$DL = 1.213$$

$$BEC = 0.345$$

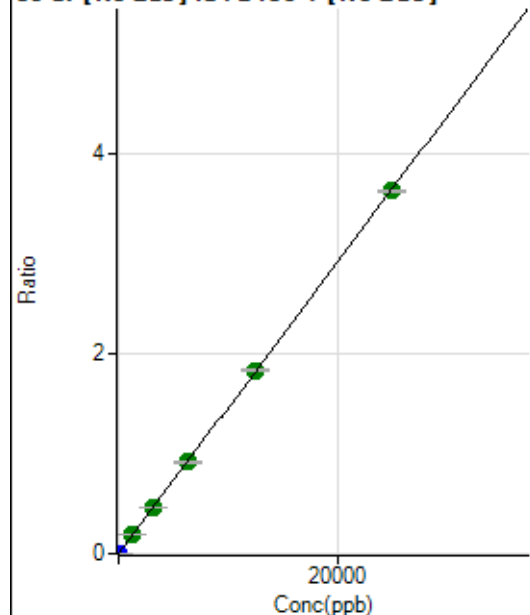
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			73.33		P	29.8
2	☐			66.66		P	17.3
3	☐			70.00		P	46.9
4	☐			101.11		P	15.6
5	☐			84.44		P	13.9
6	☐			92.22		P	4.2
7	☐			96.67		P	24.9
8	☐			113.33		P	11.8

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	177.78	0.0000	P	12.6
2	☐	1.000	0.963	1777.91	0.0002	P	2.6
3	☐	1250.000	1283.914	2160910.89	0.1869	A	0.4
4	☐	3125.000	3138.989	5155063.64	0.4568	A	1.1
5	☐	6250.000	6281.518	10180870.34	0.9142	A	0.7
6	☐	12500.000	12610.604	20334923.31	1.8353	A	1.7
7	☐	25000.000	24933.374	40226303.85	3.6287	A	0.8
8	☐			12624.57	0.0013	P	19.3

$$y = 1.4553\text{E-}004 * x + 1.5196\text{E-}005$$

$$R = 1.0000$$

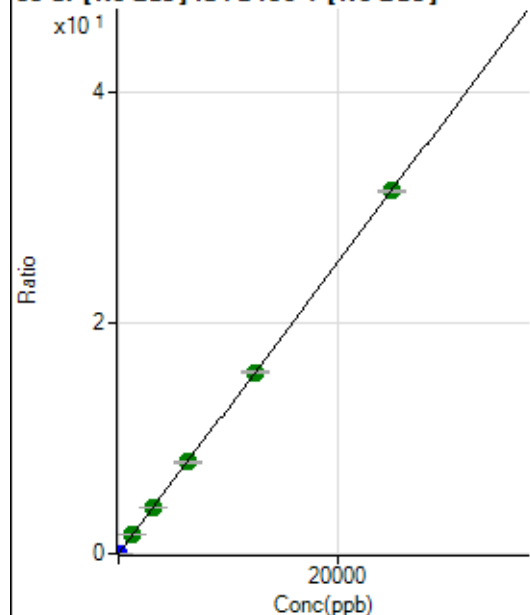
$$DL = 0.03943$$

$$BEC = 0.1044$$

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	91.11	0.0000	P	6.8
2	☐	1.000	1.060	15343.65	0.0013	P	1.1
3	☐	1250.000	1275.086	18553938.20	1.6045	A	0.4
4	☐	3125.000	3120.512	44309607.95	3.9267	A	0.4
5	☐	6250.000	6291.364	88163295.35	7.9167	A	1.1
6	☐	12500.000	12503.099	174326548.5	15.7331	A	1.1
7	☐	25000.000	24987.416	348549479.2	31.4426	A	0.8
8	☐			106271.39	0.0108	P	18.9

$$y = 0.0013 * x + 7.7969\text{E-}006$$

$$R = 1.0000$$

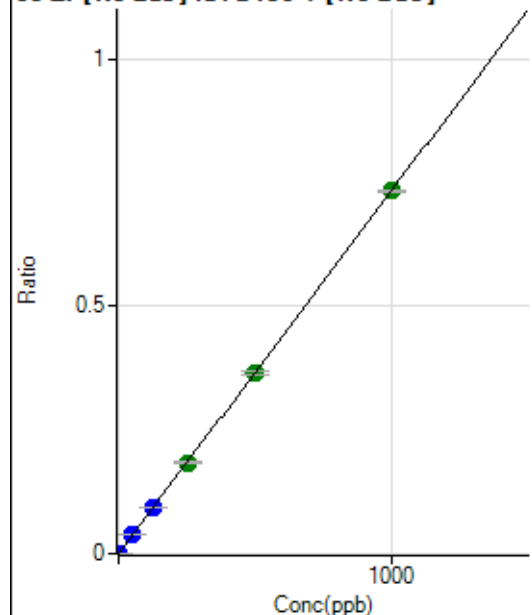
$$DL = 0.001264$$

$$BEC = 0.006196$$

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	428.90	0.0000	P	4.7
2	☐	1.000	1.012	8907.22	0.0008	P	0.3
3	☐	50.000	51.671	438260.16	0.0379	P	0.6
4	☐	125.000	126.724	1048267.74	0.0929	P	1.2
5	☐	250.000	251.310	2051272.85	0.1842	A	1.1
6	☐	500.000	498.970	4051857.93	0.3657	A	1.4
7	☐	1000.000	999.889	8122770.78	0.7328	A	0.6
8	☐			2409.11	0.0002	P	18.7

$$y = 7.3280\text{E-}004 * x + 3.6689\text{E-}005$$

$$R = 1.0000$$

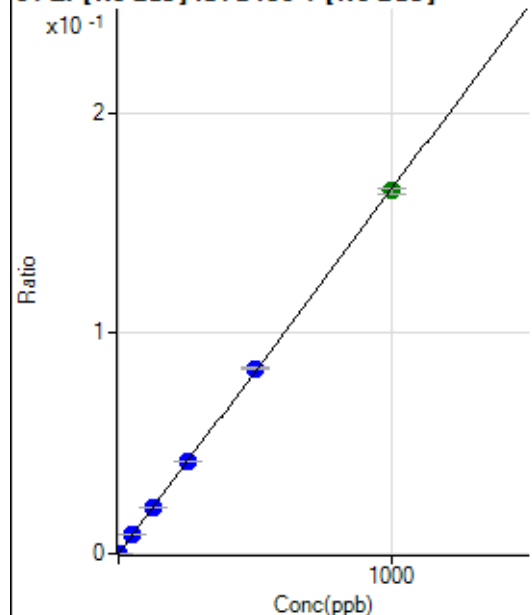
$$DL = 0.007009$$

$$BEC = 0.05007$$

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	65.56	0.0000	P	13.7
2	☐	1.000	0.996	1946.81	0.0002	P	6.1
3	☐	50.000	51.434	98319.61	0.0085	P	1.6
4	☐	125.000	126.783	236417.48	0.0210	P	0.9
5	☐	250.000	253.150	465827.08	0.0418	P	0.8
6	☐	500.000	507.073	928305.99	0.0838	P	1.0
7	☐	1000.000	995.381	1823021.15	0.1645	A	1.5
8	☐			502.23	0.0001	P	23.6

$$y = 1.6521\text{E-}004 * x + 5.6114\text{E-}006$$

$$R = 1.0000$$

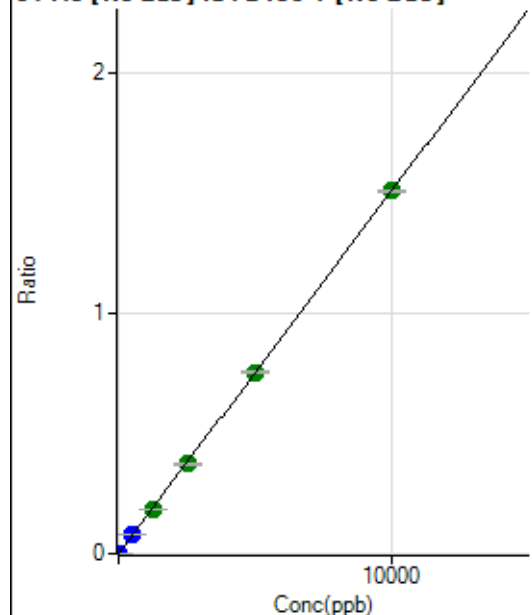
$$DL = 0.01394$$

$$BEC = 0.03397$$

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	117.78	0.0000	P	18.8
2	☐	5.000	5.908	10304.81	0.0009	P	1.2
3	☐	500.000	512.428	893343.78	0.0773	P	0.8
4	☐	1250.000	1235.421	2101734.57	0.1862	A	0.8
5	☐	2500.000	2476.294	4157271.09	0.3733	A	1.6
6	☐	5000.000	5006.133	8361985.15	0.7547	A	0.9
7	☐	10000.000	10004.061	16717587.94	1.5081	A	0.8
8	☐			4378.49	0.0004	P	20.8

$$y = 1.5075\text{E-}004 * x + 1.0082\text{E-}005$$

$$R = 1.0000$$

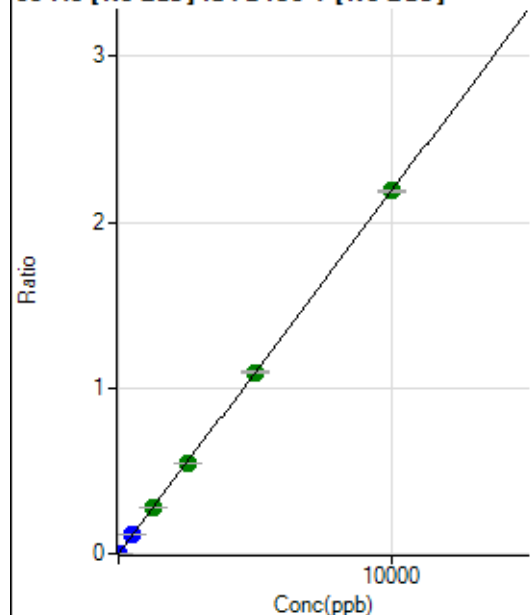
$$DL = 0.03772$$

$$BEC = 0.06688$$

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	35.56	0.0000	P	29.8
2	☐	5.000	5.100	12802.35	0.0011	P	2.0
3	☐	500.000	514.703	1302284.68	0.1126	P	0.5
4	☐	1250.000	1254.670	3097835.61	0.2745	A	1.1
5	☐	2500.000	2495.898	6081809.84	0.5461	A	0.6
6	☐	5000.000	4997.562	12116187.04	1.0935	A	0.8
7	☐	10000.000	10000.925	24257407.14	2.1882	A	0.6
8	☐			5423.34	0.0006	P	27.9

$$y = 2.1880\text{E-}004 * x + 3.0475\text{E-}006$$

$$R = 1.0000$$

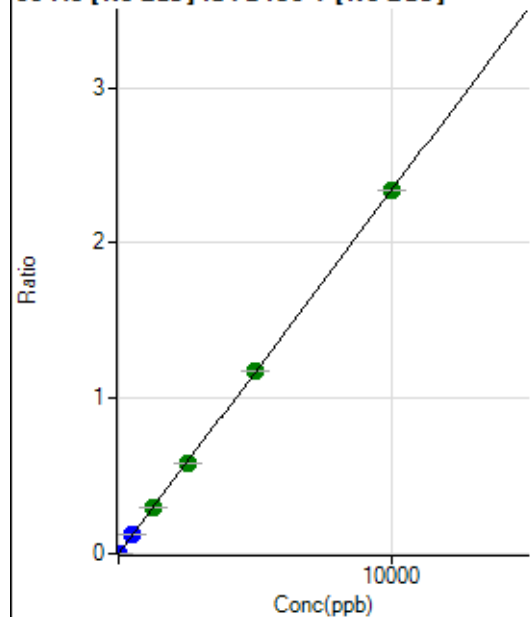
$$DL = 0.01246$$

$$BEC = 0.01393$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	61.11	0.0000	P	11.9
2	☐	5.000	5.286	14203.66	0.0012	P	2.1
3	☐	500.000	518.310	1401571.59	0.1212	P	1.0
4	☐	1250.000	1251.080	3301405.02	0.2926	A	0.7
5	☐	2500.000	2500.069	6510782.54	0.5846	A	0.4
6	☐	5000.000	5025.039	13020443.42	1.1751	A	0.7
7	☐	10000.000	9986.413	25888140.73	2.3353	A	0.2
8	☐			15907.77	0.0016	P	11.5

$$y = 2.3385\text{E-}004 * x + 5.2292\text{E-}006$$

$$R = 1.0000$$

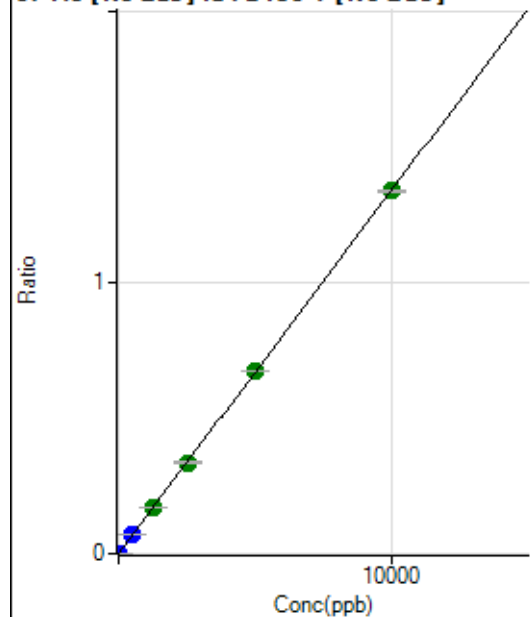
$$DL = 0.007955$$

$$BEC = 0.02236$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	17.78	0.0000	P	29.8
2	☐	5.000	5.046	7755.45	0.0007	P	1.8
3	☐	500.000	517.795	802355.51	0.0694	P	1.0
4	☐	1250.000	1252.299	1893611.41	0.1678	A	1.3
5	☐	2500.000	2502.789	3735114.04	0.3354	A	0.9
6	☐	5000.000	5026.607	7463635.93	0.6736	A	0.9
7	☐	10000.000	9984.822	14832569.08	1.3380	A	0.4
8	☐			3501.60	0.0004	P	23.0

$$y = 1.3401\text{E-}004 * x + 1.5236\text{E-}006$$

$$R = 1.0000$$

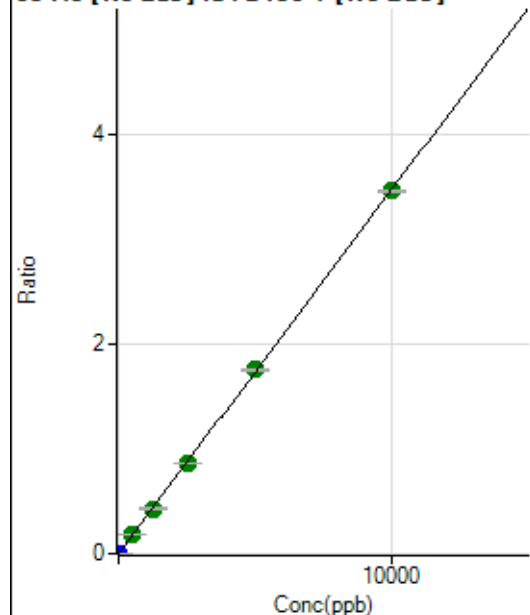
$$DL = 0.01017$$

$$BEC = 0.01137$$

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	23.33	0.0000	P	51.2
2	☐	5.000	5.077	20194.05	0.0018	P	2.2
3	☐	500.000	506.786	2035385.58	0.1760	A	1.7
4	☐	1250.000	1240.295	4861259.27	0.4308	A	1.1
5	☐	2500.000	2494.428	9648768.40	0.8664	A	0.6
6	☐	5000.000	5059.063	19470153.60	1.7572	A	1.2
7	☐	10000.000	9972.735	38397898.04	3.4639	A	0.9
8	☐			8311.49	0.0008	P	27.7

$$y = 3.4734\text{E-}004 * x + 1.9953\text{E-}006$$

$$R = 1.0000$$

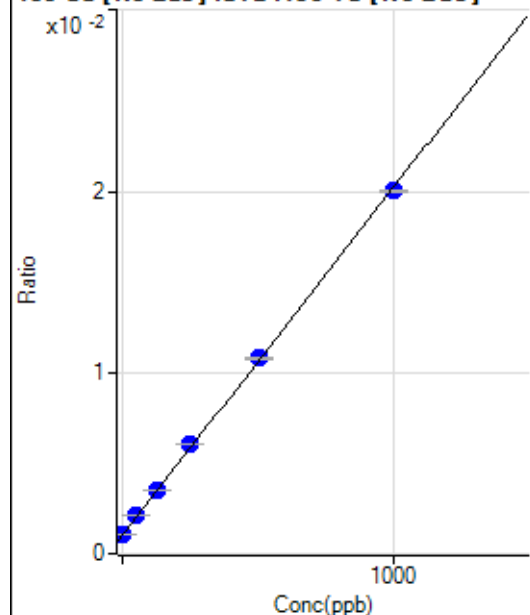
$$DL = 0.00882$$

$$BEC = 0.005744$$

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	7120.70	0.0010	P	2.1
2	☐	1.000	1.133	7240.75	0.0011	P	2.2
3	☐	50.000	54.467	14186.99	0.0021	P	1.6
4	☐	125.000	127.897	23689.37	0.0035	P	0.8
5	☐	250.000	261.344	40840.52	0.0060	P	1.6
6	☐	500.000	509.463	73351.53	0.0108	P	0.8
7	☐	1000.000	991.847	135393.55	0.0200	P	0.3
8	☐			5935.71	0.0010	P	2.8

$$y = 1.9133\text{E-}005 * x + 0.0010$$

$$R = 0.9999$$

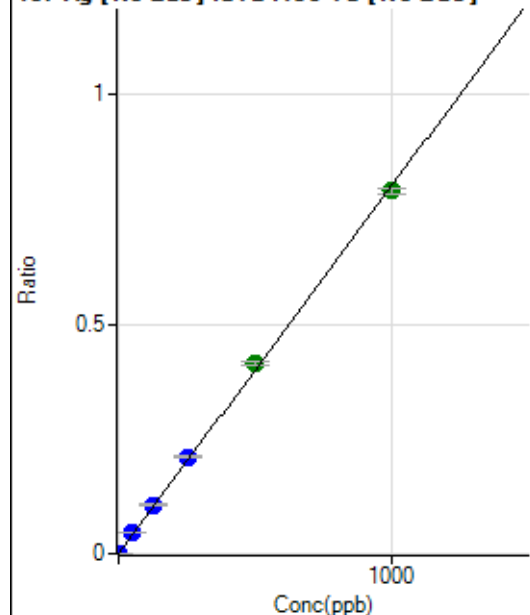
$$DL = 3.436$$

$$BEC = 54.86$$

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	72.22	0.0000	P	2.8
2	☐	1.000	1.146	6272.53	0.0009	P	2.6
3	☐	50.000	56.197	305324.00	0.0450	P	0.8
4	☐	125.000	133.238	722980.05	0.1067	P	0.9
5	☐	250.000	263.212	1423078.02	0.2108	P	1.8
6	☐	500.000	516.907	2812244.54	0.4140	A	2.4
7	☐	1000.000	986.904	5343464.89	0.7904	A	1.6
8	☐			2275.76	0.0004	P	20.0

$$y = 8.0089\text{E-}004 * x + 1.0648\text{E-}005$$

$$R = 0.9997$$

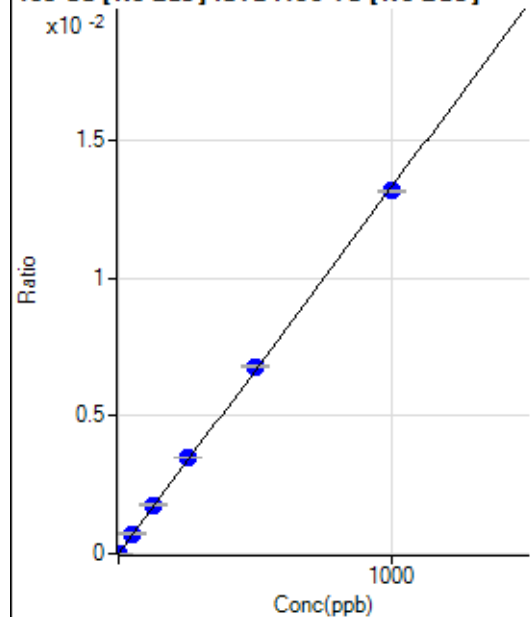
$$DL = 0.001115$$

$$BEC = 0.01329$$

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	12.22	0.0000	P	16.2
2	☐	1.000	1.088	110.00	0.0000	P	14.8
3	☐	50.000	54.356	4908.66	0.0007	P	2.9
4	☐	125.000	133.028	11981.71	0.0018	P	3.1
5	☐	250.000	262.443	23545.85	0.0035	P	1.4
6	☐	500.000	511.380	46160.87	0.0068	P	0.4
7	☐	1000.000	989.978	88910.23	0.0132	P	0.8
8	☐			57.78	0.0000	P	11.4

$$y = 1.3283\text{E-}005 * x + 1.8027\text{E-}006$$

$$R = 0.9998$$

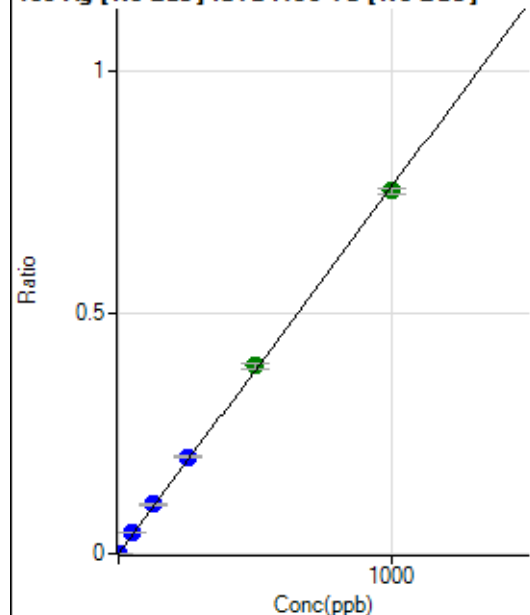
$$DL = 0.06609$$

$$BEC = 0.1357$$

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	7.78	0.0000	P	64.9
2	☐	1.000	1.133	5831.23	0.0009	P	1.7
3	☐	50.000	56.093	289304.99	0.0427	P	0.7
4	☐	125.000	133.670	688653.46	0.1017	P	0.7
5	☐	250.000	263.680	1353616.42	0.2005	P	1.3
6	☐	500.000	512.409	2646927.29	0.3897	A	2.6
7	☐	1000.000	988.987	5084396.18	0.7521	A	1.4
8	☐			2283.54	0.0004	P	9.3

$$y = 7.6045E-004 * x + 1.1433E-006$$

$$R = 0.9998$$

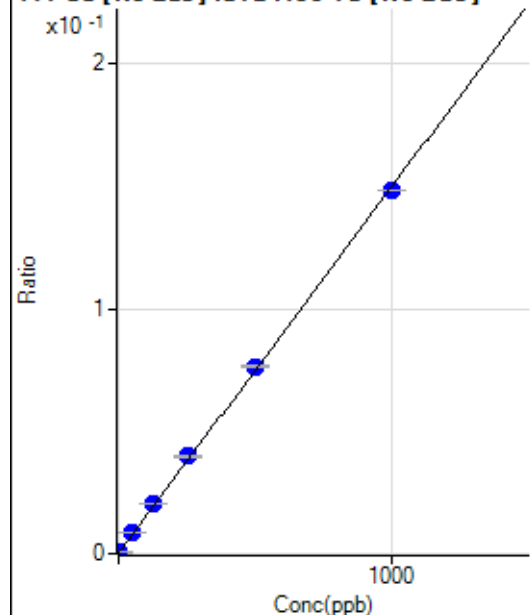
$$DL = 0.002928$$

$$BEC = 0.001503$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1781.62	0.0003	P	2.2
2	☐	1.000	1.203	2987.69	0.0004	P	2.4
3	☐	50.000	55.851	58313.72	0.0086	P	1.1
4	☐	125.000	133.199	136458.87	0.0201	P	0.4
5	☐	250.000	265.150	268907.99	0.0398	P	1.7
6	☐	500.000	510.276	519171.10	0.0764	P	0.5
7	☐	1000.000	989.757	1000449.04	0.1480	P	0.2
8	☐			1770.15	0.0003	P	2.8

$$y = 1.4925E-004 * x + 2.6264E-004$$

$$R = 0.9998$$

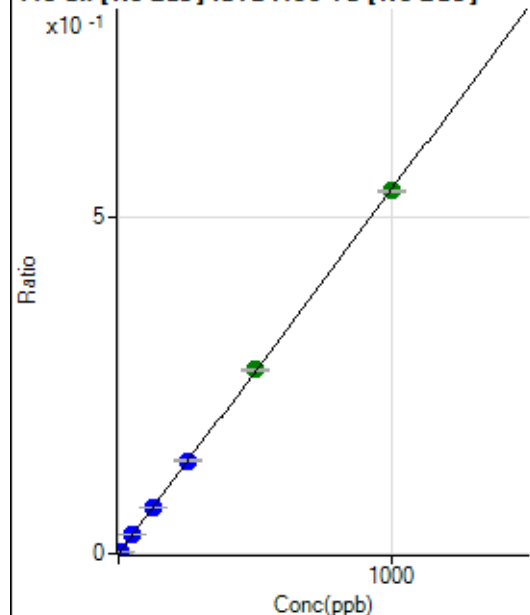
$$DL = 0.1145$$

$$BEC = 1.76$$

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	451.12	0.0001	P	1.7
2	☐	5.000	5.347	20024.04	0.0030	P	1.1
3	☐	50.000	52.801	194429.81	0.0287	P	0.5
4	☐	125.000	126.841	465917.04	0.0688	P	0.2
5	☐	250.000	254.781	932055.66	0.1381	P	1.8
6	☐	500.000	504.260	1856091.71	0.2732	A	0.8
7	☐	1000.000	996.303	3648944.43	0.5397	A	0.8
8	☐			1982.38	0.0003	P	12.2

$$y = 5.4167\text{E-}004 * x + 6.6506\text{E-}005$$

$$R = 1.0000$$

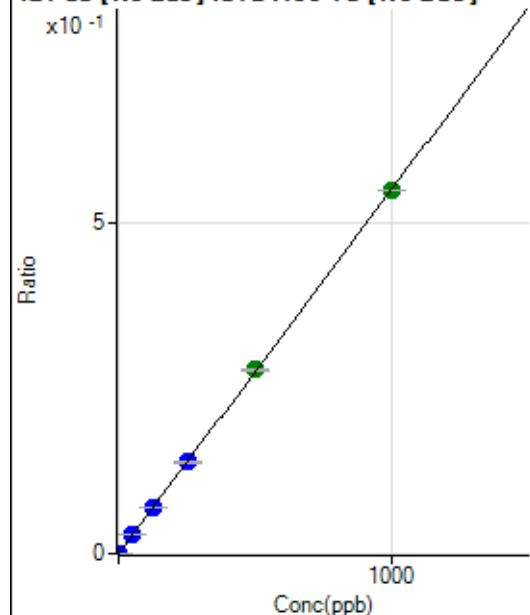
$$DL = 0.006118$$

$$BEC = 0.1228$$

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	20.00	0.0000	P	59.5
2	☐	2.000	2.109	7851.10	0.0012	P	0.8
3	☐	50.000	51.801	193068.53	0.0285	P	1.0
4	☐	125.000	125.027	465451.53	0.0687	P	0.8
5	☐	250.000	252.146	935319.24	0.1386	P	1.8
6	☐	500.000	505.320	1886543.29	0.2777	A	0.6
7	☐	1000.000	996.710	3702772.41	0.5477	A	0.1
8	☐			2105.73	0.0004	P	7.3

$$y = 5.4950\text{E-}004 * x + 2.9411\text{E-}006$$

$$R = 1.0000$$

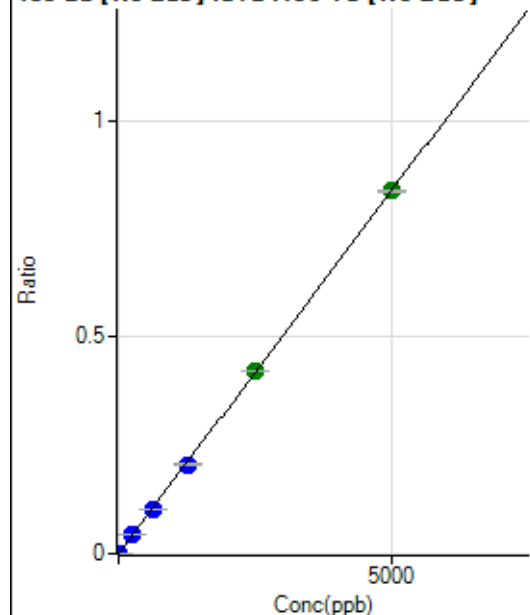
$$DL = 0.009554$$

$$BEC = 0.005352$$

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	5.56	0.0000	P	34.7
2	☐	10.000	9.993	11326.82	0.0017	P	1.1
3	☐	250.000	253.320	288019.52	0.0425	P	0.5
4	☐	625.000	611.789	694796.94	0.1026	P	0.8
5	☐	1250.000	1227.846	1389448.17	0.2058	P	1.9
6	☐	2500.000	2516.896	2866364.92	0.4219	A	0.7
7	☐	5000.000	4998.576	5665030.26	0.8379	A	0.2
8	☐			3389.33	0.0006	P	10.6

$$y = 1.6764\text{E-}004 * x + 8.1932\text{E-}007$$

$$R = 1.0000$$

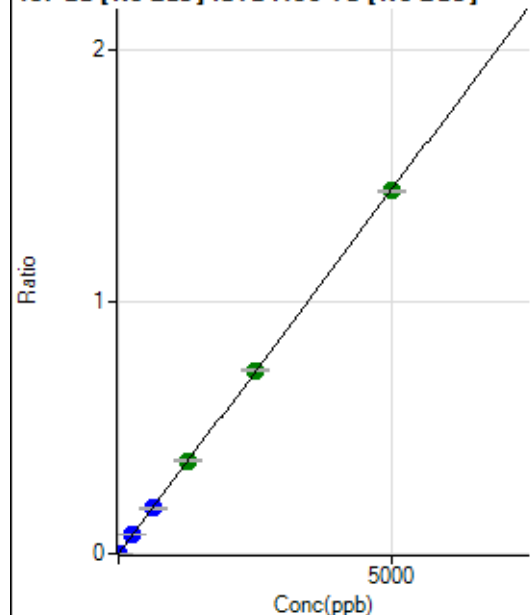
$$DL = 0.005095$$

$$BEC = 0.004887$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	12.22	0.0000	P	41.8
2	☐	10.000	10.152	19826.14	0.0029	P	2.4
3	☐	250.000	255.815	501146.79	0.0739	P	0.6
4	☐	625.000	621.116	1215428.76	0.1794	P	0.2
5	☐	1250.000	1269.432	2475064.65	0.3667	A	2.2
6	☐	2500.000	2521.330	4947351.94	0.7283	A	1.3
7	☐	5000.000	4984.671	9733644.85	1.4398	A	0.5
8	☐			5861.28	0.0010	P	8.2

$$y = 2.8884\text{E-}004 * x + 1.8041\text{E-}006$$

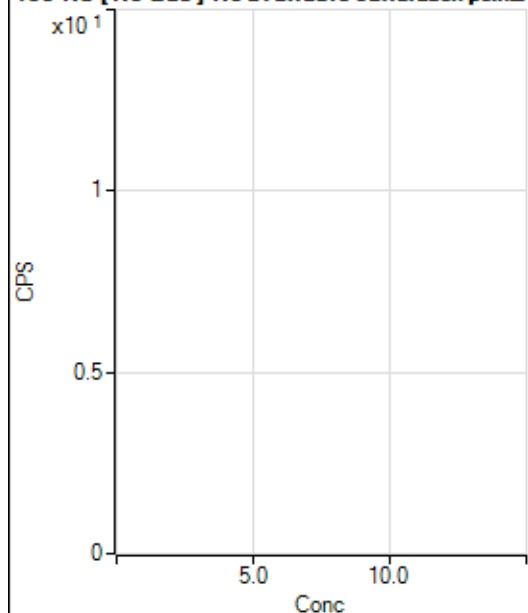
$$R = 1.0000$$

$$DL = 0.007841$$

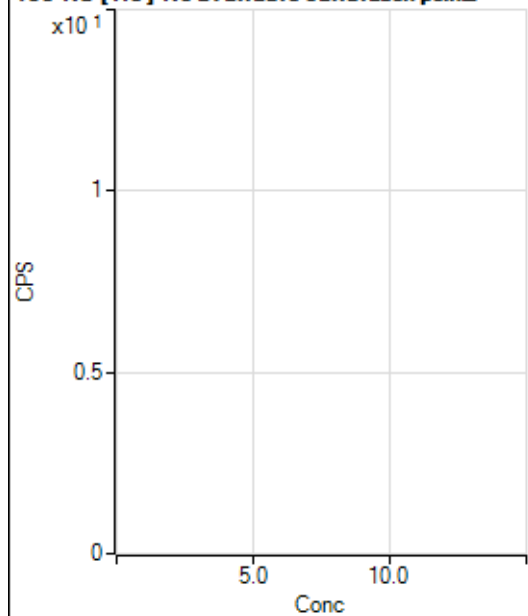
$$BEC = 0.006246$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6.67		P	50.0
2	☐			6.67		P	50.0
3	☐			77.78		P	19.8
4	☐			152.23		P	6.7
5	☐			342.23		P	16.2
6	☐			614.46		P	2.8
7	☐			1197.84		P	3.4
8	☐			20.00		P	28.9

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	100.
2	☐			2.22		P	86.6
3	☐			24.44		P	7.9
4	☐			34.44		P	5.6
5	☐			51.11		P	19.9
6	☐			126.67		P	16.4
7	☐			227.78		P	19.4
8	☐			20.00		P	44.1

156 Dy [No Gas] No available calibration points

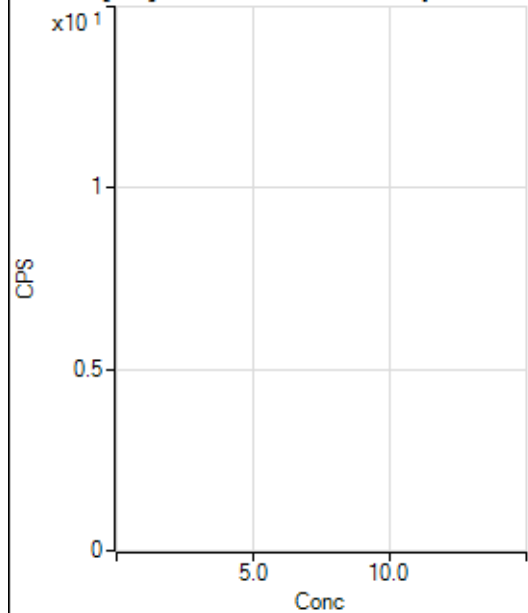
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	86.6
2	☐			10.00		P	33.3
3	☐			27.78		P	30.2
4	☐			53.33		P	18.8
5	☐			118.89		P	13.3
6	☐			204.45		P	14.8
7	☐			400.01		P	8.7
8	☐			914.49		P	5.3

156 Dy [He] No available calibration points

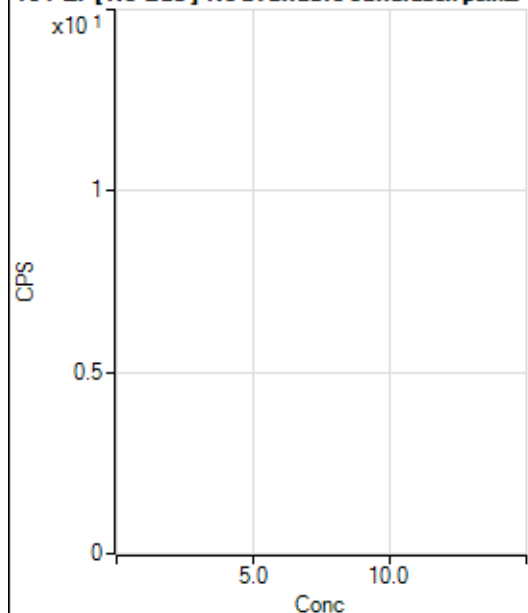
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	100.
2	☐			3.33		P	100.
3	☐			31.11		P	12.4
4	☐			51.11		P	32.8
5	☐			96.67		P	18.2
6	☐			195.56		P	9.4
7	☐			390.01		P	4.5
8	☐			647.80		P	6.9

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

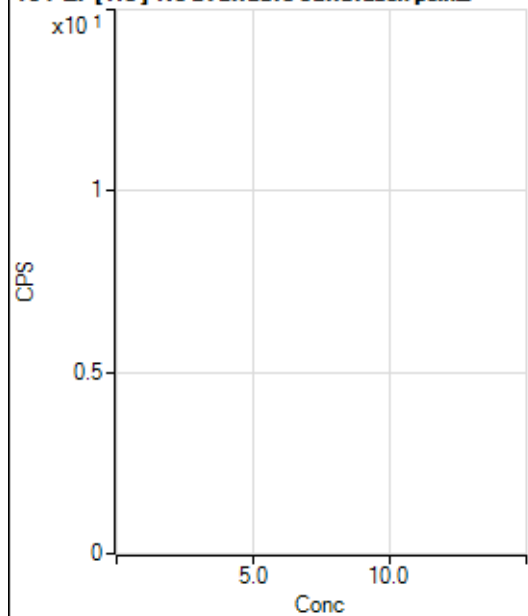
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			43.33		P	38.5
2	☐			51.11		P	21.0
3	☐			67.78		P	39.4
4	☐			81.11		P	15.6
5	☐			112.22		P	19.1
6	☐			132.23		P	5.8
7	☐			282.23		P	4.5
8	☐			981.16		P	3.5

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			234.45		P	4.3
2	☐			226.67		P	14.5
3	☐			230.00		P	5.8
4	☐			250.01		P	8.1
5	☐			275.56		P	9.7
6	☐			303.34		P	8.8
7	☐			391.12		P	5.2
8	☐			982.26		P	4.0

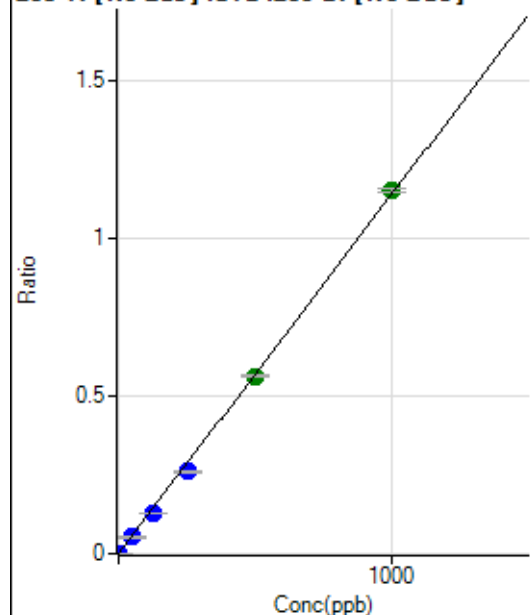
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			54.44		P	30.2
2	☐			48.89		P	21.9
3	☐			50.00		P	35.3
4	☐			45.56		P	11.2
5	☐			54.44		P	9.4
6	☐			68.89		P	7.4
7	☐			72.22		P	10.7
8	☐			75.56		P	12.7

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			37.78		P	20.4
2	☐			46.67		P	25.8
3	☐			42.22		P	16.4
4	☐			37.78		P	33.4
5	☐			40.00		P	33.3
6	☐			44.45		P	24.1
7	☐			43.33		P	35.3
8	☐			72.22		P	40.3

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	90.00	0.0000	P	9.8
2	☐	1.000	0.908	4507.45	0.0011	P	3.0
3	☐	50.000	45.528	224781.99	0.0519	P	0.8
4	☐	125.000	111.609	549650.45	0.1271	P	0.6
5	☐	250.000	227.976	1101200.04	0.2597	P	1.5
6	☐	500.000	494.160	2356265.02	0.5629	A	0.8
7	☐	1000.000	1010.323	4676623.61	1.1508	A	0.9
8	☐			824.48	0.0002	P	35.2

$$y = 0.0011 * x + 2.0695E-005$$

$$R = 0.9997$$

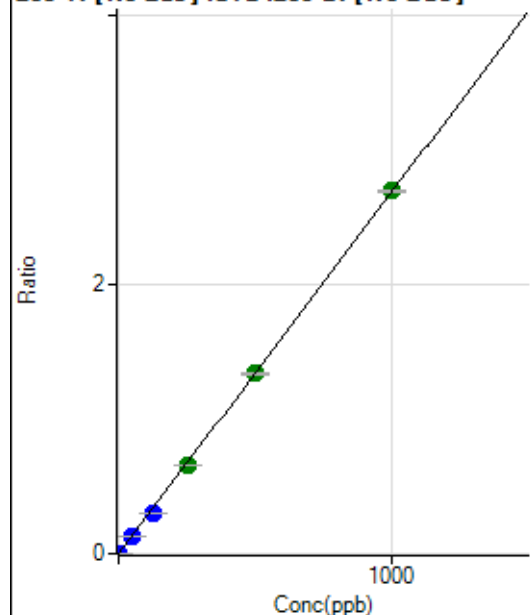
$$DL = 0.005344$$

$$BEC = 0.01817$$

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	187.78	0.0000	P	15.9
2	☐	1.000	0.930	10861.08	0.0025	P	1.2
3	☐	50.000	45.807	533596.29	0.1232	P	0.8
4	☐	125.000	112.616	1308551.21	0.3027	P	1.0
5	☐	250.000	243.714	2777735.44	0.6550	A	1.1
6	☐	500.000	498.550	5609045.75	1.3399	A	0.5
7	☐	1000.000	1004.054	10966037.82	2.6985	A	0.6
8	☐			1921.28	0.0006	P	30.6

$$y = 0.0027 * x + 4.3169E-005$$

$$R = 0.9999$$

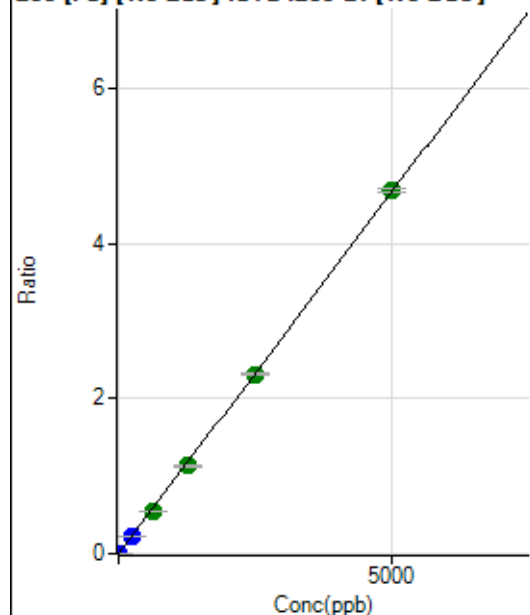
$$DL = 0.007644$$

$$BEC = 0.01606$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	223.34	0.0001	P	10.8
2	☐	1.000	0.908	3832.80	0.0009	P	3.8
3	☐	250.000	228.594	922678.22	0.2130	P	0.8
4	☐	625.000	592.178	2384475.75	0.5516	A	1.2
5	☐	1250.000	1215.133	4798760.24	1.1318	A	2.4
6	☐	2500.000	2482.485	9678576.87	2.3121	A	1.1
7	☐	5000.000	5022.647	19009853.19	4.6779	A	1.2
8	☐			4268.54	0.0013	P	25.5

$$y = 9.3136\text{E-}004 * x + 5.1370\text{E-}005$$

$$R = 1.0000$$

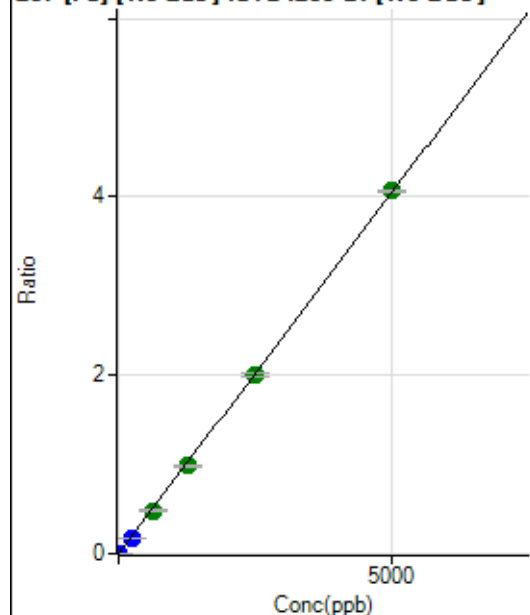
$$DL = 0.01791$$

$$BEC = 0.05516$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	180.00	0.0000	P	15.0
2	☐	1.000	0.909	3318.22	0.0008	P	5.7
3	☐	250.000	225.205	789557.25	0.1822	P	0.8
4	☐	625.000	596.764	2087054.33	0.4828	A	1.6
5	☐	1250.000	1222.060	4192150.04	0.9887	A	2.1
6	☐	2500.000	2471.972	8371287.58	1.9998	A	1.7
7	☐	5000.000	5025.768	16522327.11	4.0658	A	0.8
8	☐			3528.30	0.0011	P	24.9

$$y = 8.0899\text{E-}004 * x + 4.1405\text{E-}005$$

$$R = 1.0000$$

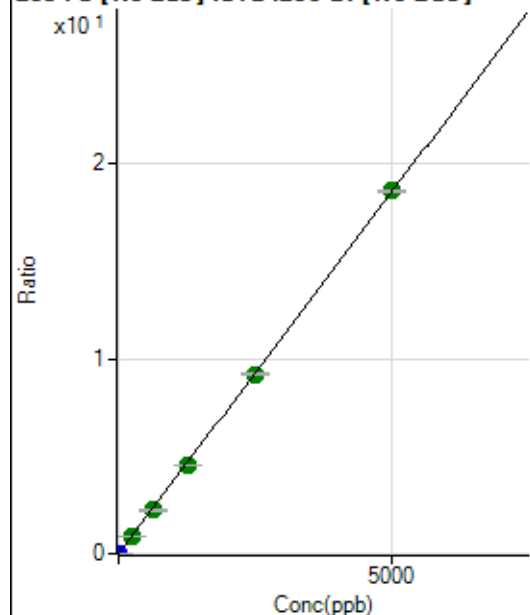
$$DL = 0.0231$$

$$BEC = 0.05118$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	874.46	0.0002	P	7.3
2	☐	1.000	0.906	15226.83	0.0036	P	2.0
3	☐	250.000	236.682	3808291.10	0.8789	A	0.4
4	☐	625.000	600.609	9639823.71	2.2300	A	1.1
5	☐	1250.000	1219.469	19198668.19	4.5276	A	1.5
6	☐	2500.000	2485.220	38623489.01	9.2268	A	0.9
7	☐	5000.000	5018.738	75717585.53	18.6327	A	0.6
8	☐			16854.47	0.0051	P	21.8

$$y = 0.0037 * x + 2.0110E-004$$

$$R = 1.0000$$

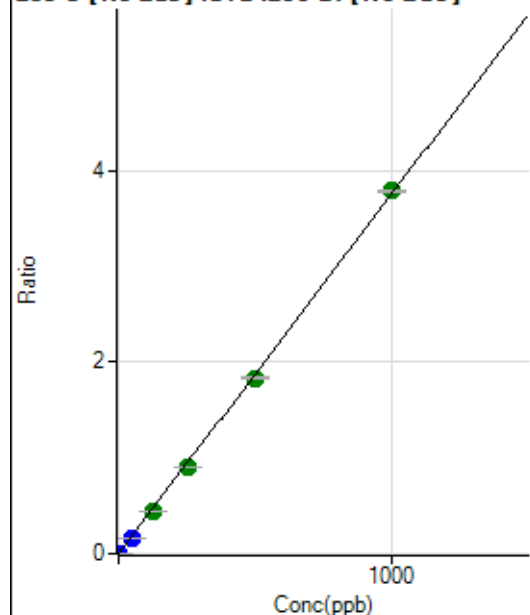
$$DL = 0.01193$$

$$BEC = 0.05417$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5.56	0.0000	P	34.7
2	☐	1.000	0.844	13529.38	0.0032	P	0.3
3	☐	50.000	41.627	676575.59	0.1562	P	1.0
4	☐	125.000	116.583	1890579.25	0.4373	A	0.9
5	☐	250.000	241.482	3841688.97	0.9059	A	0.8
6	☐	500.000	489.043	7679512.87	1.8345	A	0.2
7	☐	1000.000	1009.079	15382503.94	3.7854	A	0.4
8	☐			1670.14	0.0005	P	44.9

$$y = 0.0038 * x + 1.2775E-006$$

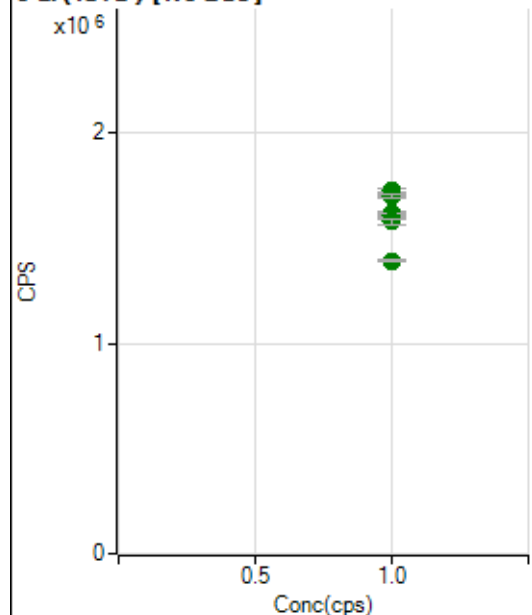
$$R = 0.9999$$

$$DL = 0.0003541$$

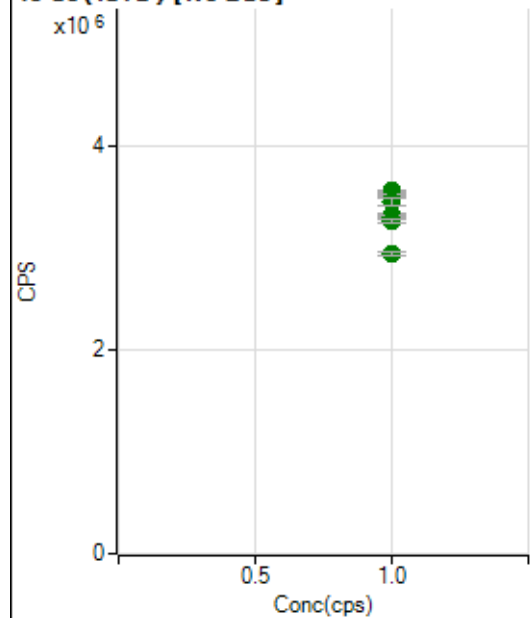
$$BEC = 0.0003405$$

Weight: <None>

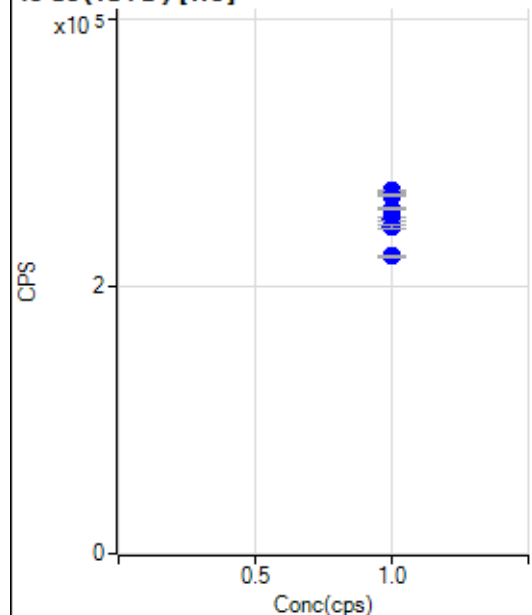
Min Conc: 0

6 Li (ISTD) [No Gas]

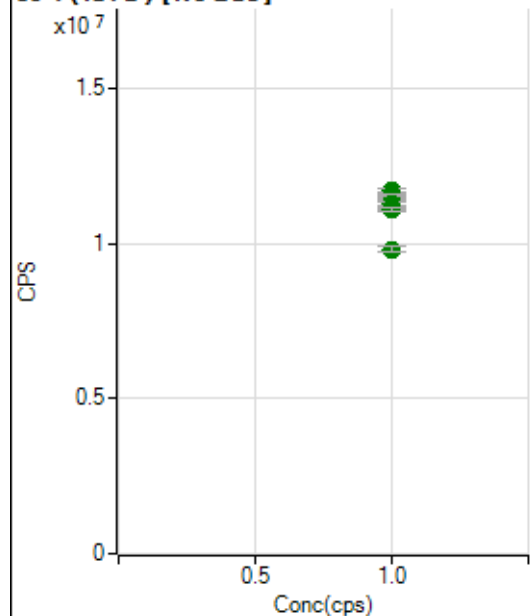
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1725228.98		A	1.4
2	☐	1.000		1703965.24		A	0.6
3	☐	1.000		1721500.49		A	0.1
4	☐	1.000		1698076.12		A	1.1
5	☐	1.000		1619081.82		A	0.8
6	☐	1.000		1608924.94		A	1.0
7	☐	1.000		1578165.05		A	1.7
8	☐	1.000		1390612.90		A	0.6

45 Sc (ISTD) [No Gas]

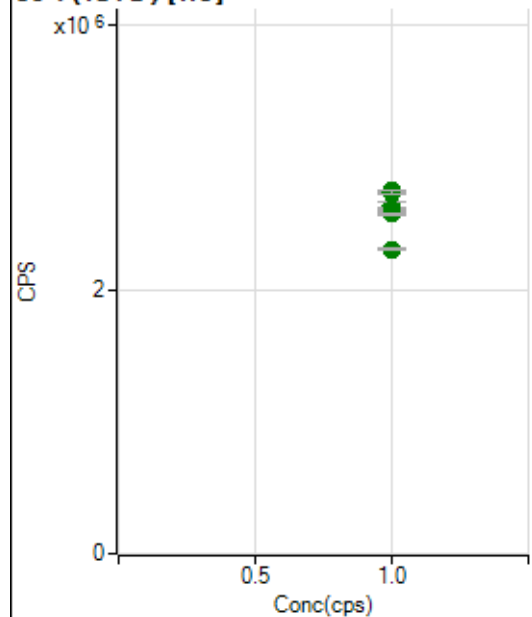
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3554146.54		A	0.7
2	☐	1.000		3515748.25		A	0.9
3	☐	1.000		3524427.55		A	0.4
4	☐	1.000		3445164.32		A	1.9
5	☐	1.000		3310555.19		A	0.9
6	☐	1.000		3296723.42		A	0.7
7	☐	1.000		3257404.71		A	1.4
8	☐	1.000		2942496.21		A	1.6

45 Sc (ISTD) [He]

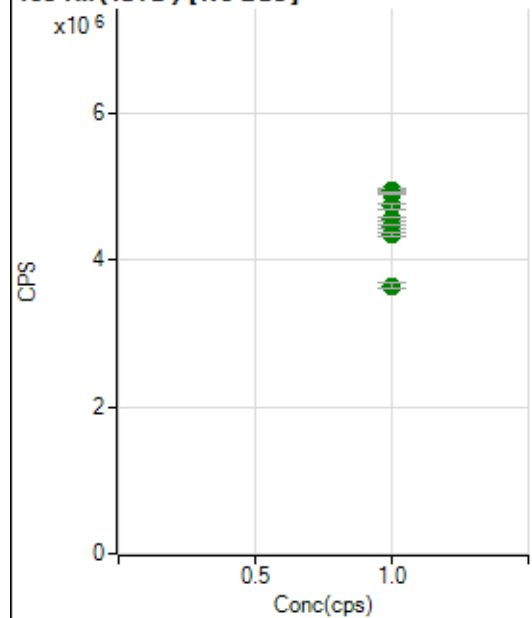
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		270610.95		P	0.3
2	☐	1.000		270996.79		P	0.4
3	☐	1.000		267594.35		P	0.8
4	☐	1.000		257504.60		P	0.8
5	☐	1.000		250054.13		P	1.0
6	☐	1.000		248347.39		P	0.3
7	☐	1.000		243949.68		P	1.4
8	☐	1.000		222190.62		P	0.3

89 Y (ISTD) [No Gas]

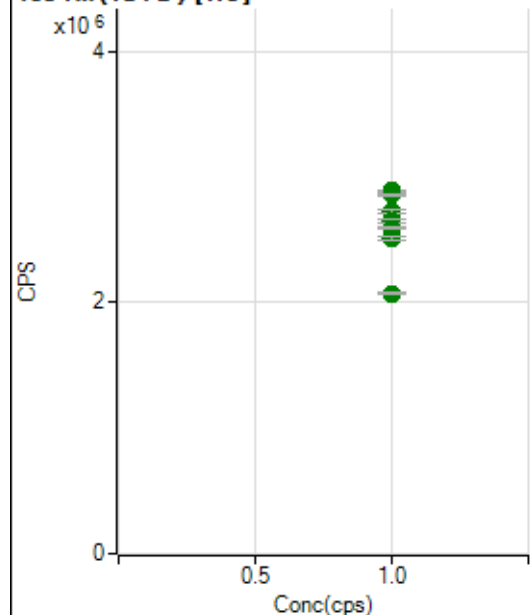
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11692077.05		A	1.2
2	☐	1.000		11441259.69		A	0.9
3	☐	1.000		11563600.80		A	0.6
4	☐	1.000		11284510.52		A	0.8
5	☐	1.000		11136580.67		A	0.2
6	☐	1.000		11080681.36		A	0.6
7	☐	1.000		11085593.59		A	0.7
8	☐	1.000		9812494.30		A	1.8

89 Y(ISTD) [He]

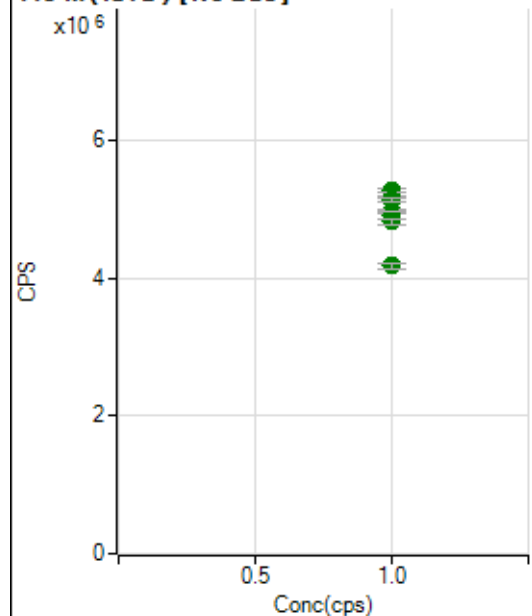
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2744876.35		A	0.4
2	☐	1.000		2741491.00		A	0.6
3	☐	1.000		2738947.88		A	1.3
4	☐	1.000		2640456.66		A	1.7
5	☐	1.000		2600701.47		A	0.3
6	☐	1.000		2581720.52		A	0.1
7	☐	1.000		2568015.97		A	0.8
8	☐	1.000		2304776.72		A	0.4

103 Rh(ISTD) [No Gas]

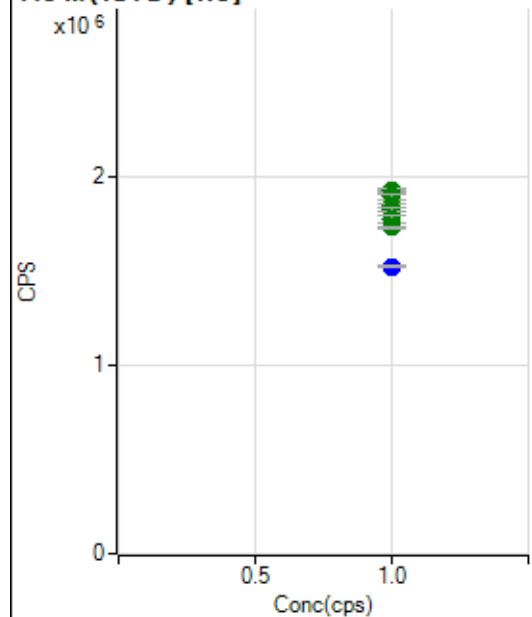
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4927384.51		A	1.4
2	☐	1.000		4946262.91		A	0.9
3	☐	1.000		4913003.47		A	0.6
4	☐	1.000		4732325.07		A	1.2
5	☐	1.000		4568636.08		A	1.1
6	☐	1.000		4457447.57		A	0.7
7	☐	1.000		4353066.50		A	1.3
8	☐	1.000		3656518.35		A	2.4

103 Rh (ISTD) [He]

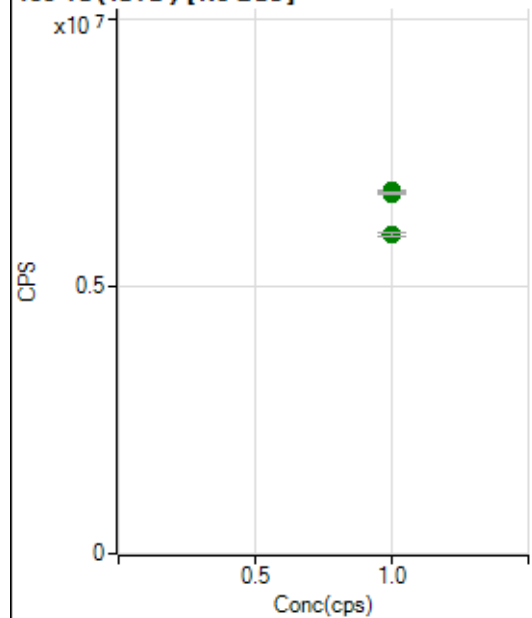
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2876999.78		A	0.7
2	☐	1.000		2887860.16		A	0.3
3	☐	1.000		2859027.87		A	0.7
4	☐	1.000		2719048.07		A	1.1
5	☐	1.000		2649616.61		A	1.5
6	☐	1.000		2591712.23		A	0.5
7	☐	1.000		2516221.98		A	1.2
8	☐	1.000		2071780.56		A	1.0

115 In (ISTD) [No Gas]

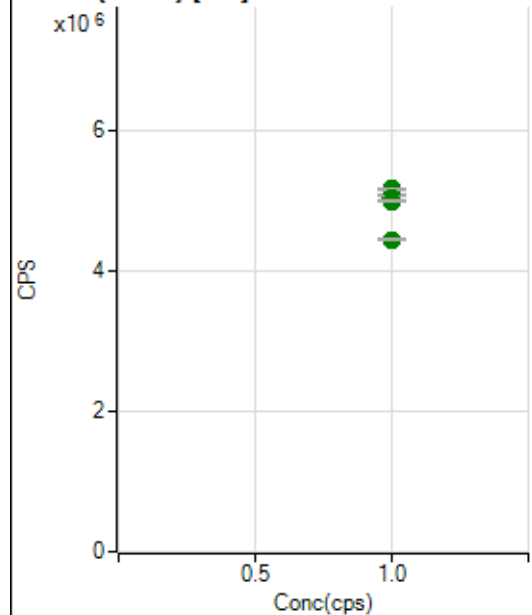
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5275499.41		A	0.9
2	☐	1.000		5192347.10		A	0.3
3	☐	1.000		5258069.61		A	0.4
4	☐	1.000		5157773.38		A	1.0
5	☐	1.000		4981164.46		A	0.8
6	☐	1.000		4922812.99		A	1.8
7	☐	1.000		4832799.85		A	1.7
8	☐	1.000		4183468.18		A	1.7

115 In (ISTD) [He]

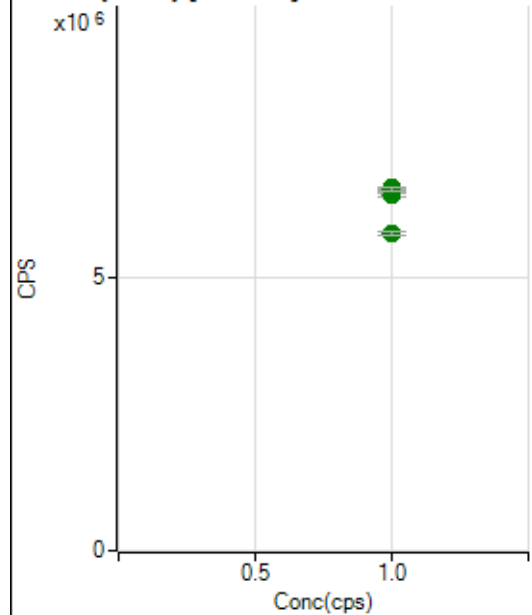
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1923586.27		A	0.7
2	☐	1.000		1927429.58		A	1.1
3	☐	1.000		1895458.70		A	1.3
4	☐	1.000		1848789.96		A	0.7
5	☐	1.000		1829488.85		A	1.6
6	☐	1.000		1781150.48		A	2.4
7	☐	1.000		1733356.14		A	0.4
8	☐	1.000		1526664.33		P	0.5

159 Tb (ISTD) [No Gas]

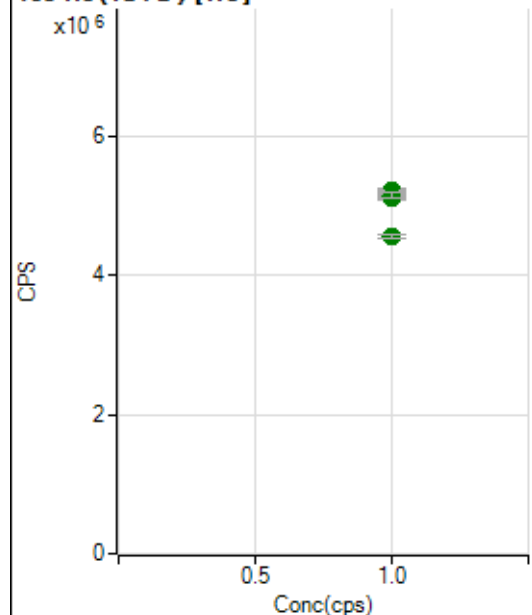
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6783041.08		A	0.7
2	☐	1.000		6758518.16		A	1.1
3	☐	1.000		6782189.83		A	0.4
4	☐	1.000		6774804.07		A	0.6
5	☐	1.000		6751207.61		A	1.0
6	☐	1.000		6793825.25		A	0.8
7	☐	1.000		6760589.83		A	0.5
8	☐	1.000		5975573.66		A	1.4

159 Tb (ISTD) [He]

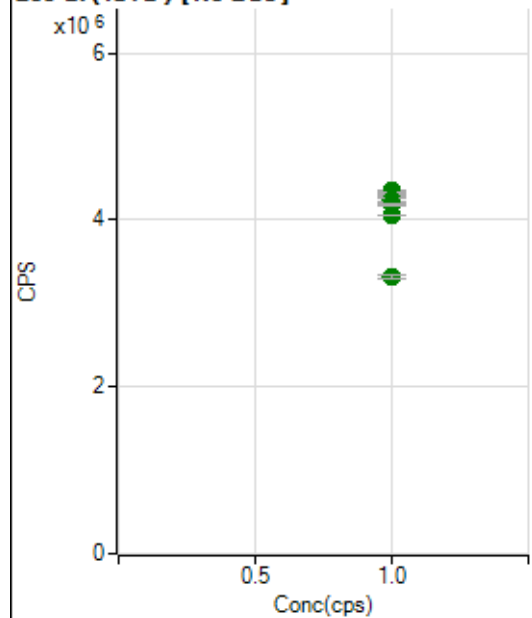
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5142882.49		A	1.2
2	☐	1.000		5172725.37		A	0.8
3	☐	1.000		5173745.69		A	0.6
4	☐	1.000		5169076.52		A	0.9
5	☐	1.000		5037468.47		A	1.2
6	☐	1.000		5051087.91		A	1.4
7	☐	1.000		4997079.13		A	0.6
8	☐	1.000		4452489.83		A	0.9

165 Ho (ISTD) [No Gas]

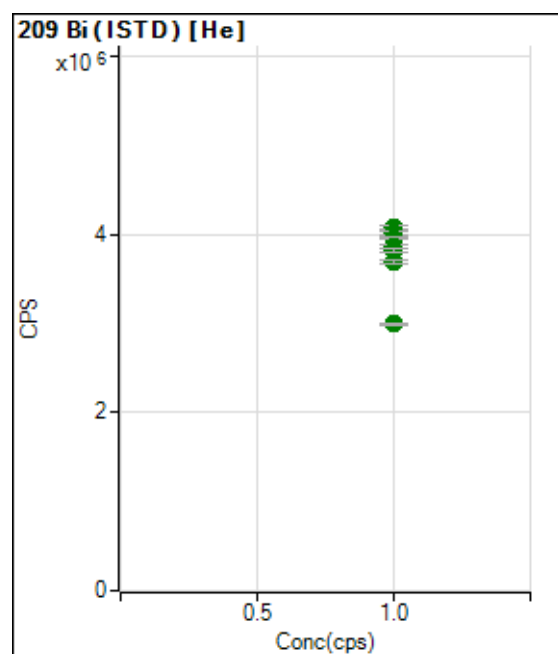
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6610571.71		A	0.4
2	☐	1.000		6526567.33		A	1.1
3	☐	1.000		6577332.12		A	0.5
4	☐	1.000		6639935.11		A	0.2
5	☐	1.000		6570253.51		A	0.9
6	☐	1.000		6647820.87		A	0.5
7	☐	1.000		6618724.42		A	1.3
8	☐	1.000		5826021.23		A	1.4

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5210089.33		A	2.0
2	☐	1.000		5212237.14		A	0.2
3	☐	1.000		5193345.79		A	1.3
4	☐	1.000		5120995.23		A	1.2
5	☐	1.000		5124471.11		A	0.9
6	☐	1.000		5148198.12		A	1.3
7	☐	1.000		5142955.86		A	1.7
8	☐	1.000		4566090.42		A	1.3

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4348986.43		A	0.5
2	☐	1.000		4272370.56		A	0.4
3	☐	1.000		4333037.54		A	1.3
4	☐	1.000		4322999.24		A	0.8
5	☐	1.000		4240861.15		A	1.2
6	☐	1.000		4186049.34		A	0.2
7	☐	1.000		4063681.67		A	0.2
8	☐	1.000		3313645.02		A	1.5



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4049869.45		A	0.2
2	☐	1.000		4073095.63		A	1.0
3	☐	1.000		4014537.61		A	0.9
4	☐	1.000		3958712.93		A	0.9
5	☐	1.000		3859176.02		A	1.3
6	☐	1.000		3825155.36		A	0.9
7	☐	1.000		3697265.64		A	0.9
8	☐	1.000		2997906.17		A	0.8

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7050223 MS.b

Acq. Date-Time 2023-05-02 11:19:32

Report Comment ---

Instrument Name G8403A JP14410463

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		6999	69986.15			0.403	5.000
24		70635	706345.84			0.586	5.000
25		9708	97077.97			0.906	5.000
26		11017	110174.86			0.428	5.000
59		50211	502106.77			0.331	5.000
113		5915	59148.43			0.585	5.000
115		74013	740133.19			0.950	5.000
206		17036	170359.14			0.976	5.000
207		15854	158539.79			0.773	5.000
208		36753	367534.89			0.953	5.000
220		0	1.20			37.268	

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

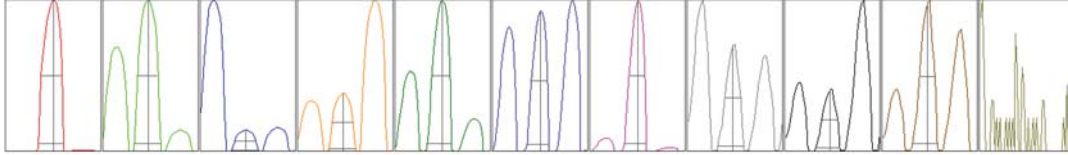
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	7016	6968	7032	7005	6971
24	70250	70261	70532	70969	71160
25	9627	9651	9667	9755	9839
26	10940	11039	11064	11010	11035
59	49972	50322	50177	50407	50175
113	5867	5939	5897	5954	5917
115	73591	75265	73682	73772	73757
206	16799	16957	17043	17207	17174
207	15690	15763	15894	15957	15966
208	36337	36425	36892	37000	37113

US EPA Tune Check Report

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
220	0	0	0	0	0

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	11456.65	9.05	8.90 - 9.10	
24	114521.43	23.95	23.90 - 24.10	
25	15371.20	24.95	24.90 - 25.10	
26	17671.10	25.95	25.90 - 26.10	
59	91785.58	59.00	58.90 - 59.10	
113	12231.79	113.05	112.90 - 113.10	
115	154149.64	115.05	114.90 - 115.10	
206	34997.68	205.95	205.90 - 206.10	
207	31627.34	206.95	206.90 - 207.10	
208	76658.66	207.95	207.90 - 208.10	
220	0.00	219.75	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.65	0.790	0.900	
24	0.65	0.830	0.900	
25	0.66	0.835	0.900	
26	0.66	0.832	0.900	
59	0.57	0.768	0.900	
113	0.50	0.693	0.900	
115	0.50	0.700	0.900	
206	0.50	0.814	0.900	
207	0.50	0.756	0.900	
208	0.48	0.779	0.900	
220	0.18	0.175		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.82 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	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	9.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	8.6 V	Deflect	14.4 V
Extract 2	-85.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-55 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	170 V		

QP Parameters

Mass Gain	123	Axis Gain	0.9999	QP Bias	-3.0 V
Mass Offset	125	Axis Offset	0.03		

Hardware Settings

Torch

Torch H	-1.1 mm	Torch V	1.0 mm
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EM

Discriminator	3.2 mV	Analog HV	2278 V	Pulse HV	1562 V
---------------	--------	-----------	--------	----------	--------

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		15439	154385.35			0.359	
89		23671	236711.34			0.497	
205		21758	217581.63			0.533	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	15508	15361	15469	15440	15415
89	23733	23584	23548	23651	23839
205	21872	21601	21682	21859	21777

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.82 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	9.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	9.4 V	Deflect	3.2 V
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US EPA Tune Check Report

Extract 2	-90.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-60 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.9 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		

QP Parameters

Mass Gain	123	Axis Gain	0.9999	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	0.03		

Hardware Settings

Torch

Torch H	-1.1 mm	Torch V	1.0 mm
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EM

Discriminator	3.2 mV	Analog HV	2278 V	Pulse HV	1562 V
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