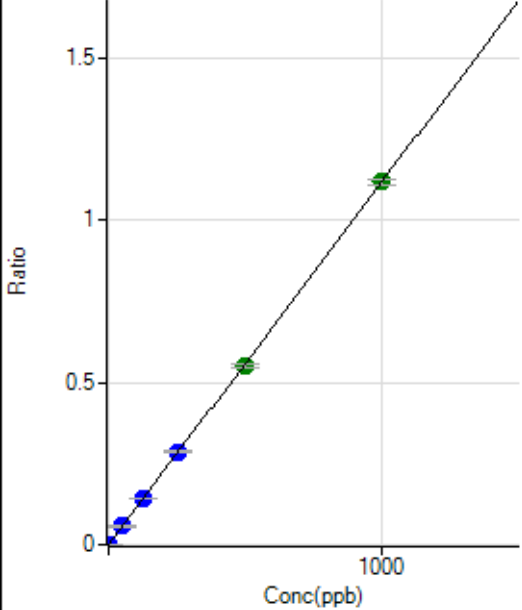


Calibration for 007CALS.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P7040524 MS.b\
 Analysis File: P7040524 MS.batch.bin
 DA Date-Time: 2024-04-05 10:31:22
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2024-04-05 10:02:25
2	006CALS.d	S02	2024-04-05 10:12:13
3	007CALS.d	S03	2024-04-05 10:15:28
4	008CALS.d	S04	2024-04-05 10:18:23
5	009CALS.d	S05	2024-04-05 10:21:09
6	010CALS.d	S06	2024-04-05 10:23:56
7	011CALS.d	S07	2024-04-05 10:26:41
8	012CALS.d	S08	2024-04-05 10:29:29

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	128.89	0.0000	P	3.9
2	☐	1.000	1.022	4108.35	0.0012	P	3.0
3	☐	50.000	51.171	204027.40	0.0572	P	4.0
4	☐	125.000	128.609	495937.95	0.1438	P	1.0
5	☐	250.000	255.818	962747.21	0.2860	P	1.9
6	☐	500.000	493.142	1837716.80	0.5513	A	2.5
7	☐	1000.000	1001.465	3569969.67	1.1196	A	1.9
8	☐			1014.49	0.0003	P	17.

$y = 0.0011 * x + 3.7373E-005$

$R = 0.9999$

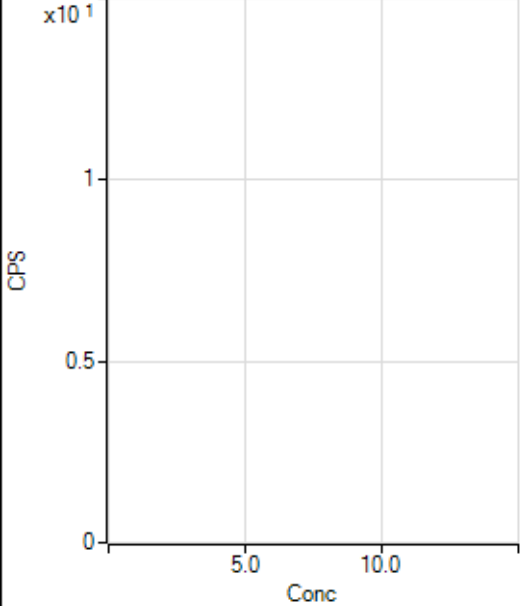
$DL = 0.003945$

$BEC = 0.03343$

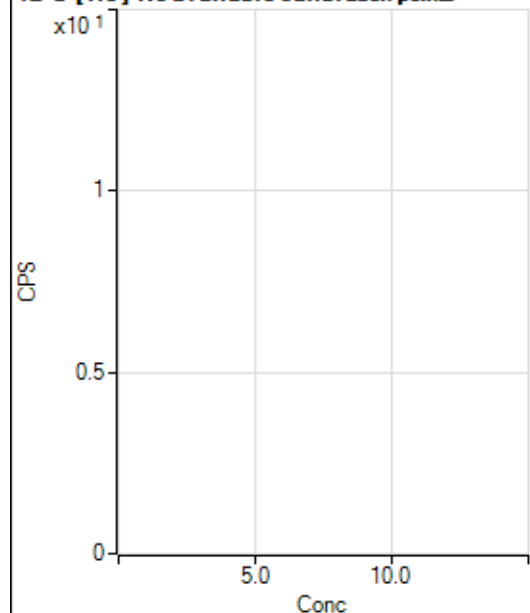
Weight: <None>

Min Conc: 0

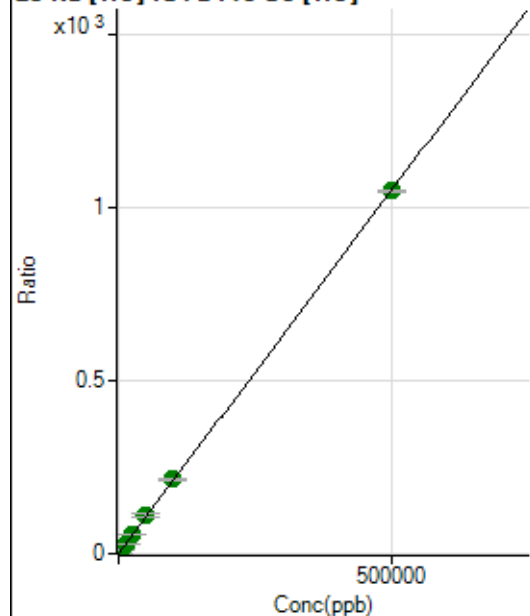
12 C [No Gas] No available calibration points



	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	42409.32	0.0665	P	0.6
2	☐	500.000	494.560	707974.74	1.1061	P	0.5
3	☐	5000.000	5115.084	6783391.57	10.8191	A	0.5
4	☐	12500.000	12943.518	16483166.01	27.2754	A	0.1
5	☐	25000.000	25939.900	32638973.40	54.5955	A	0.8
6	☐	50000.000	52276.739	64679625.70	109.9588	A	7.6
7	☐	100000.00	102056.67	129756349.18	214.6026	A	0.8
8	☐	500000.00	499301.76	635722381.64	1,049.662	A	0.6

$$y = 0.0021 * x + 0.0665$$

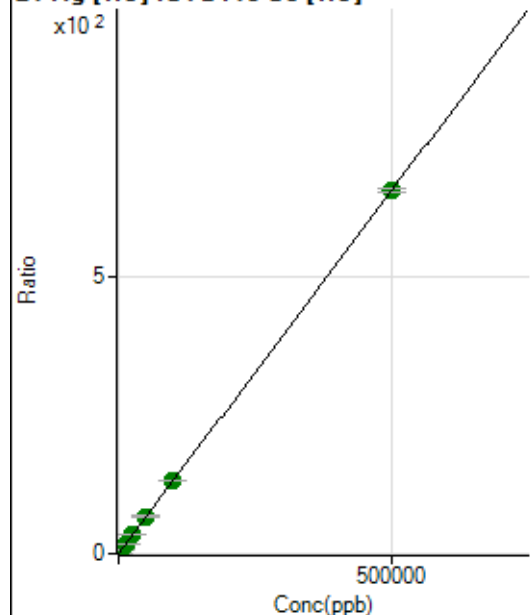
$$R = 1.0000$$

$$DL = 0.5789$$

$$BEC = 31.64$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	606.68	0.0010	P	8.7
2	☐	500.000	489.618	412341.93	0.6442	P	1.0
3	☐	5000.000	5014.056	4131054.87	6.5888	A	0.8
4	☐	12500.000	12663.697	10055791.24	16.6395	A	0.4
5	☐	25000.000	25372.954	19929191.93	33.3379	A	1.4
6	☐	50000.000	50897.202	39350006.64	66.8737	A	6.8
7	☐	100000.00	99927.373	79383546.04	131.2933	A	0.2
8	☐	500000.00	499901.93	397804642.96	656.8111	A	1.0

$$y = 0.0013 * x + 9.5147E-004$$

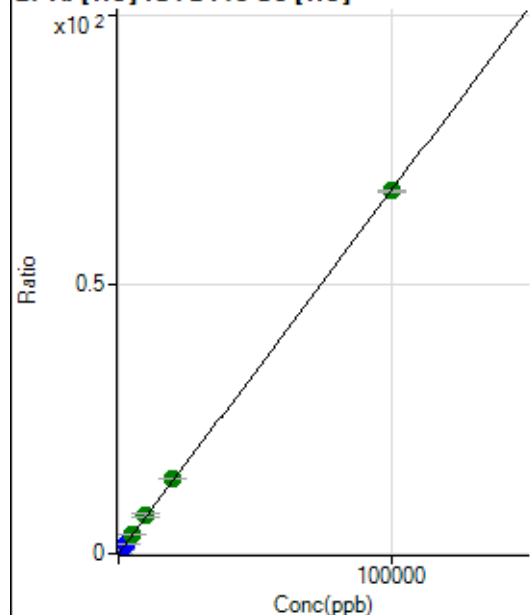
$$R = 1.0000$$

$$DL = 0.1896$$

$$BEC = 0.7242$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	206.67	0.0003	P	24.
2	☐	20.000	20.044	8858.18	0.0138	P	3.3
3	☐	1000.000	1045.991	442435.99	0.7057	P	0.9
4	☐	2500.000	2636.293	1074511.57	1.7780	P	0.3
5	☐	5000.000	5223.683	2105823.94	3.5228	A	1.9
6	☐	10000.000	10507.139	4168619.49	7.0856	A	7.4
7	☐	20000.000	20509.103	8362110.09	13.8302	A	0.3
8	☐	100000.00	99832.414	40772609.11	67.3200	A	0.7

$$y = 6.7433E-004 * x + 3.2416E-004$$

$$R = 1.0000$$

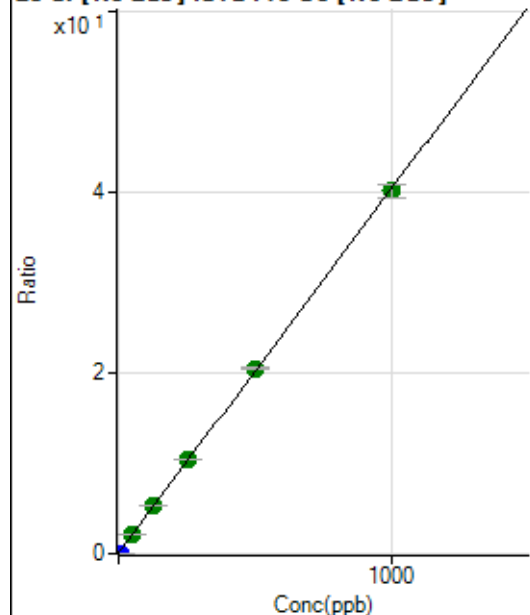
$$DL = 0.3525$$

$$BEC = 0.4807$$

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	545783.37	0.0687	P	0.3
2	☐	10.000	0.168	602910.26	0.0755	P	1.3
3	☐	50.000	51.663	17257487.24	2.1549	A	1.7
4	☐	125.000	132.102	40722984.40	5.4033	A	0.9
5	☐	250.000	256.254	78309792.72	10.4169	A	1.4
6	☐	500.000	507.001	154046099.93	20.5427	A	0.6
7	☐	1000.000	994.064	299265426.65	40.2116	A	3.8
8	☐			1444321.63	0.1931	A	2.4

$$y = 0.0404 * x + 0.0687$$

$$R = 0.9998$$

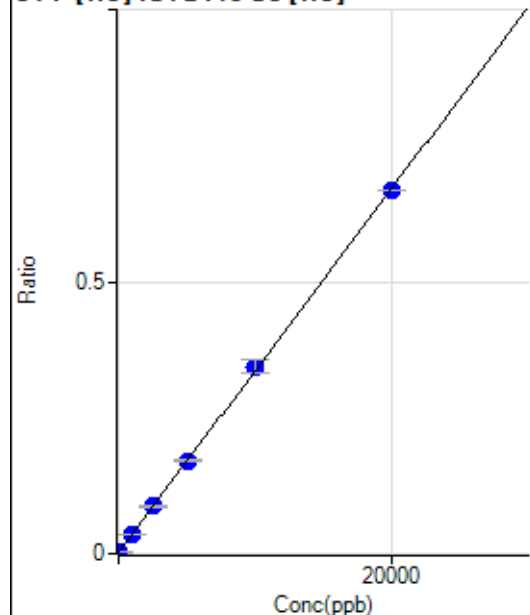
$$DL = 0.01448$$

$$BEC = 1.7$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-13.894	1053.38	0.0017	P	5.3
2	☐	0.000	13.894	1652.33	0.0026	P	2.6
3	☐	1000.000	1007.370	22453.19	0.0358	P	1.4
4	☐	2500.000	2535.219	52525.18	0.0869	P	0.7
5	☐	5000.000	5024.231	101722.64	0.1702	P	1.8
6	☐	10000.000	10205.380	202047.08	0.3435	P	7.4
7	☐	20000.000	19886.482	403457.56	0.6673	P	0.2
8	☐			1177.84	0.0019	P	1.4

$$y = 3.3448E-005 * x + 0.0021$$

$$R = 0.9999$$

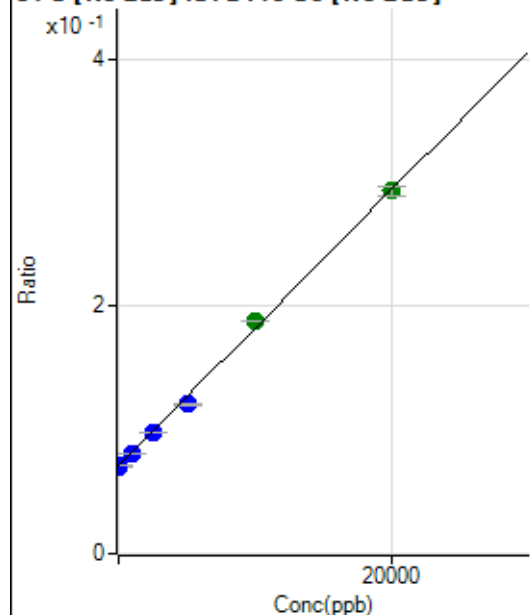
$$DL = 6.971$$

$$BEC = 63.29$$

Weight: <None>

Min Conc: 0

34 S [No Gas] ISTD:45 Sc [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-44.006	560126.35	0.0705	P	0.6
2	☐	0.000	44.006	570851.60	0.0715	P	0.4
3	☐	1000.000	848.805	644204.27	0.0804	P	0.3
4	☐	2500.000	2454.172	741323.87	0.0984	P	0.4
5	☐	5000.000	4436.136	905811.51	0.1205	P	0.7
6	☐	10000.000	10509.020	1412061.77	0.1883	A	0.3
7	☐	20000.000	19899.744	2182058.40	0.2931	A	2.9
8	☐			512102.42	0.0685	P	1.8

$$y = 1.1165E-005 * x + 0.0710$$

R = 0.9991

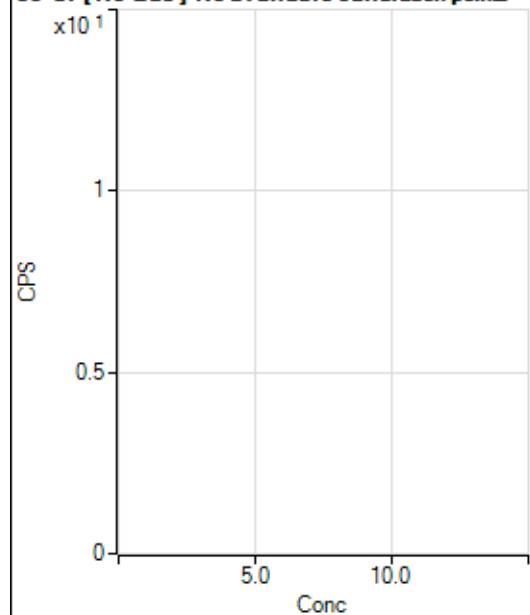
DL = 104.3

BEC = 6356

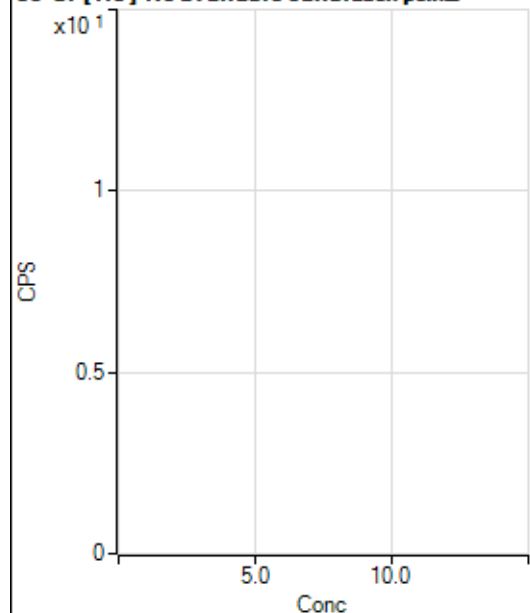
Weight: <None>

Min Conc: 0

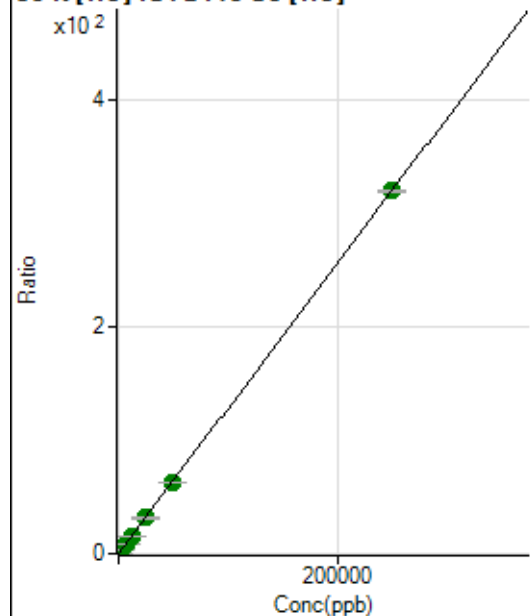
35 Cl [No Gas] No available calibration points



	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	100363.45	0.1574	P	1.6
2	☐	500.000	487.767	499273.03	0.7801	P	0.5
3	☐	2500.000	2457.902	2065927.26	3.2950	A	1.0
4	☐	6250.000	6052.196	4764108.02	7.8833	A	0.4
5	☐	12500.000	12145.753	9362310.83	15.6620	A	2.0
6	☐	25000.000	24720.463	18661361.39	31.7143	A	6.8
7	☐	50000.000	48697.384	37681593.05	62.3219	A	0.2
8	☐	250000.00	250311.58	193621188.23	319.6920	A	0.4

$$y = 0.0013 * x + 0.1574$$

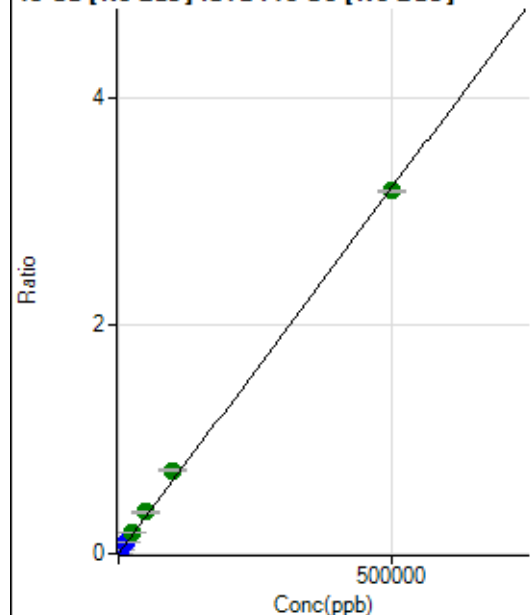
$$R = 1.0000$$

$$DL = 5.976$$

$$BEC = 123.3$$

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	533.35	0.0001	P	9.6
2	☐	500.000	498.423	26070.28	0.0033	P	0.5
3	☐	5000.000	5681.764	292305.74	0.0365	P	1.4
4	☐	12500.000	14691.155	710482.08	0.0943	P	0.8
5	☐	25000.000	27962.915	1348475.51	0.1794	A	0.6
6	☐	50000.000	56970.800	2739642.98	0.3654	A	2.1
7	☐	100000.00	114129.76	5448505.75	0.7319	A	2.6
8	☐	500000.00	496267.22	23801805.76	3.1822	A	0.3

$$y = 6.4122\text{E-}006 * x + 6.7098\text{E-}005$$

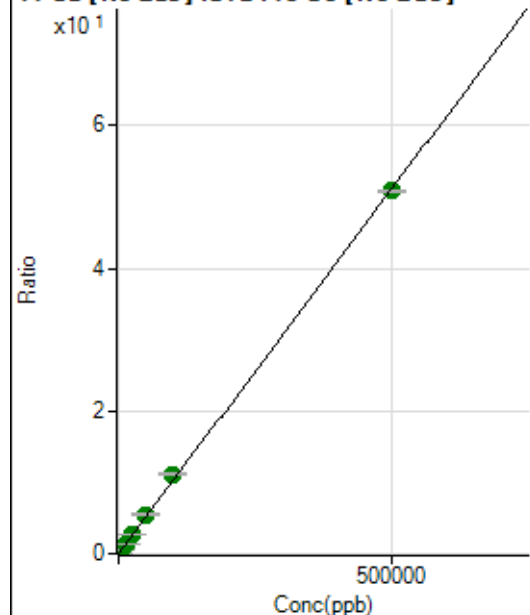
$$R = 0.9995$$

$$DL = 3.003$$

$$BEC = 10.46$$

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	16381.16	0.0021	P	0.4
2	☐	500.000	494.133	419769.71	0.0525	P	1.6
3	☐	5000.000	5231.325	4296683.10	0.5365	A	1.7
4	☐	12500.000	13537.263	10438995.81	1.3851	A	1.0
5	☐	25000.000	26629.932	20467875.11	2.7227	A	1.5
6	☐	50000.000	53571.716	41054515.22	5.4752	A	2.0
7	☐	100000.00	108722.44	82704082.66	11.1096	A	2.5
8	☐	500000.00	497788.60	380391901.00	50.8582	A	0.4

$$y = 1.0216\text{E-}004 * x + 0.0021$$

$$R = 0.9998$$

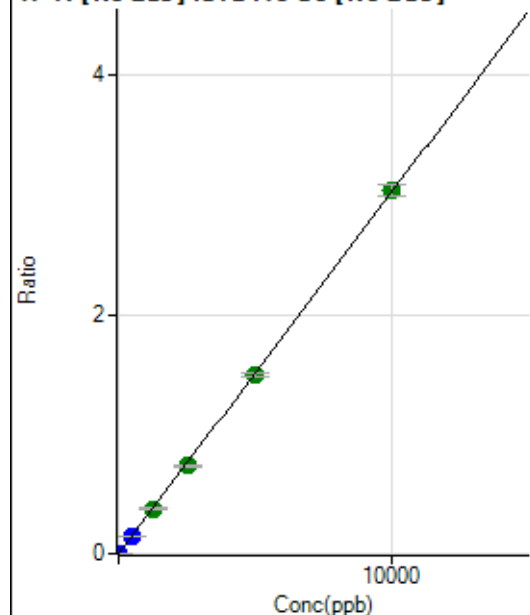
$$DL = 0.2694$$

$$BEC = 20.17$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	135.56	0.0000	P	20.
2	☐	5.000	4.716	11520.02	0.0014	P	1.0
3	☐	500.000	486.149	1176537.86	0.1469	P	1.4
4	☐	1250.000	1244.704	2834709.82	0.3761	A	2.5
5	☐	2500.000	2437.082	5535966.51	0.7364	A	1.4
6	☐	5000.000	4956.599	11230146.92	1.4977	A	1.5
7	☐	10000.000	10038.785	22578388.83	3.0333	A	3.1
8	☐			3886.11	0.0005	P	18.

$$y = 3.0216\text{E-}004 * x + 1.7055\text{E-}005$$

$$R = 1.0000$$

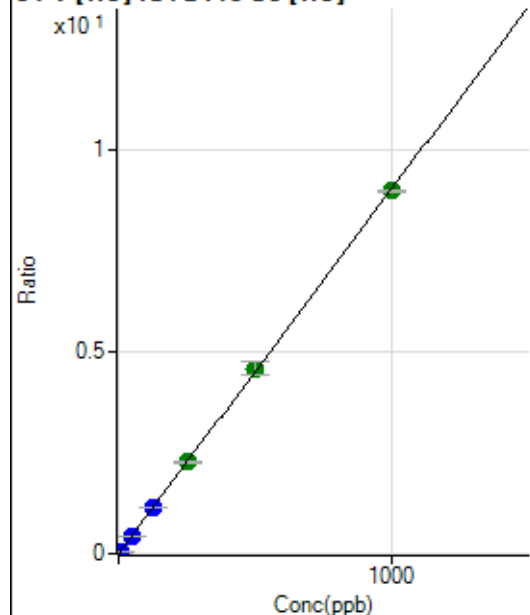
$$DL = 0.03469$$

$$BEC = 0.05644$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	14.45	0.0000	P	74.
2	☐	5.000	4.822	27928.05	0.0436	P	1.7
3	☐	50.000	49.470	280527.89	0.4474	P	1.4
4	☐	125.000	124.614	681069.26	1.1270	P	0.9
5	☐	250.000	251.045	1357345.88	2.2705	A	0.6
6	☐	500.000	508.903	2708075.41	4.6025	A	7.0
7	☐	1000.000	995.363	5442871.17	9.0021	A	0.2
8	☐			2544.68	0.0042	P	2.7

$$y = 0.0090 * x + 2.2649\text{E-}005$$

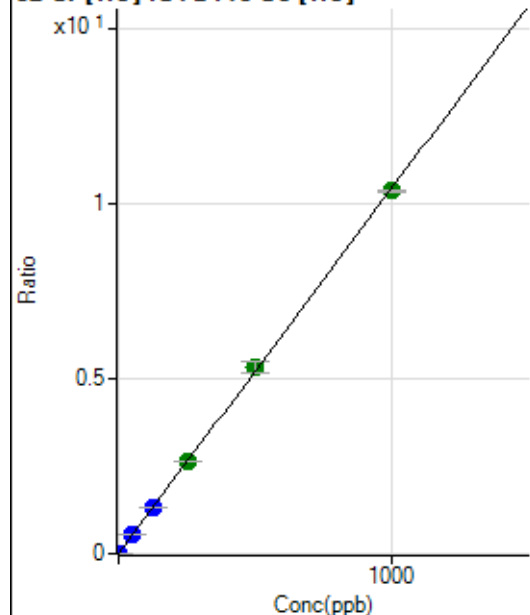
$$R = 0.9999$$

$$DL = 0.005566$$

$$BEC = 0.002504$$

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	2731.38	0.0043	P	2.7
2	☐	2.000	1.969	15897.34	0.0248	P	2.8
3	☐	50.000	50.562	333596.30	0.5321	P	0.7
4	☐	125.000	126.669	801611.88	1.3265	P	0.2
5	☐	250.000	252.253	1576544.94	2.6373	A	1.5
6	☐	500.000	510.888	3140603.91	5.3370	A	6.7
7	☐	1000.000	993.756	6274214.98	10.3771	A	0.6
8	☐			137507.74	0.2270	P	0.5

$$y = 0.0104 * x + 0.0043$$

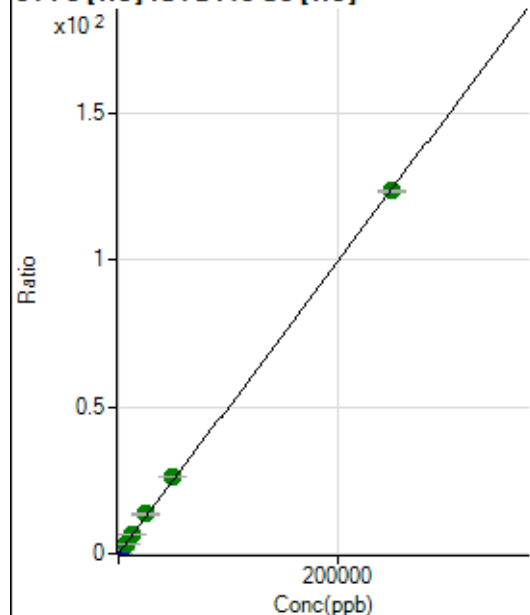
$$R = 0.9999$$

$$DL = 0.03281$$

$$BEC = 0.4104$$

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	2299.09	0.0036	P	1.4
2	☐	50.000	54.765	19678.45	0.0307	P	1.9
3	☐	2500.000	2774.070	864211.50	1.3784	P	0.6
4	☐	6250.000	6825.810	2046360.70	3.3863	A	0.9
5	☐	12500.000	13515.980	4006277.54	6.7018	A	1.1
6	☐	25000.000	27340.676	7975405.02	13.5529	A	6.7
7	☐	50000.000	52799.099	15822447.68	26.1694	A	0.9
8	☐	250000.00	249138.17	74778925.00	123.4699	A	0.6

$$y = 4.9557E-004 * x + 0.0036$$

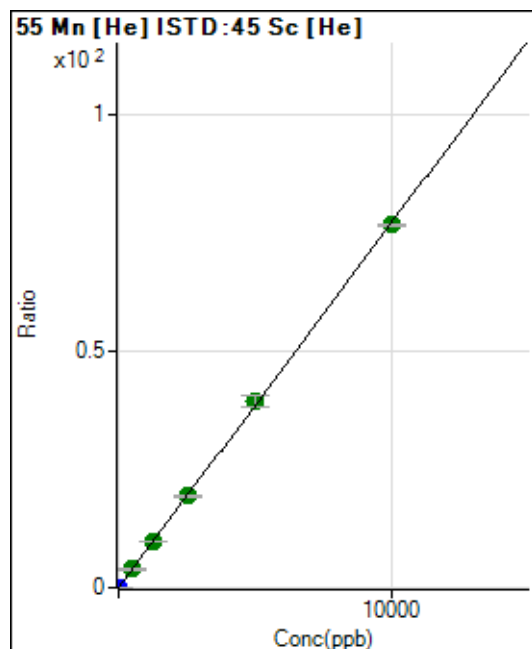
$$R = 0.9999$$

$$DL = 0.3085$$

$$BEC = 7.276$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	137.78	0.0002	P	6.1
2	☐	1.000	0.991	5024.22	0.0078	P	1.1
3	☐	500.000	501.412	2422026.65	3.8631	A	1.8
4	☐	1250.000	1255.368	5844729.01	9.6715	A	0.3
5	☐	2500.000	2516.546	11589399.27	19.3876	A	1.8
6	☐	5000.000	5102.775	23140925.77	39.3117	A	6.0
7	☐	10000.000	9943.734	46317662.09	76.6062	A	0.5
8	☐			34187.68	0.0564	P	1.1

$$y = 0.0077 * x + 2.1609E-004$$

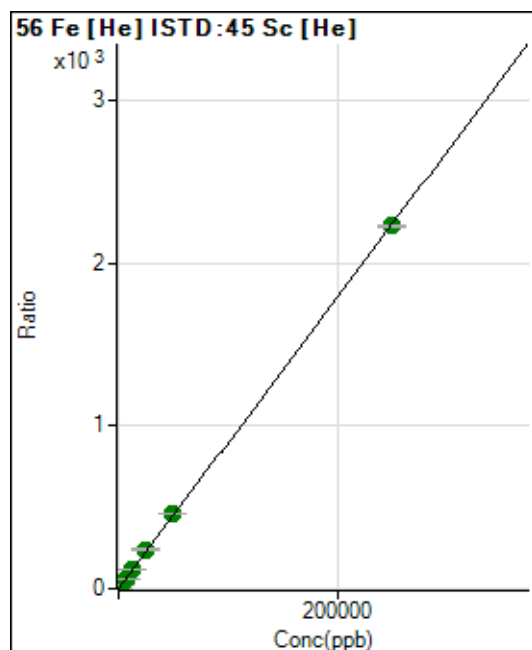
$$R = 0.9999$$

$$DL = 0.005161$$

$$BEC = 0.02805$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	12469.71	0.0196	P	1.5
2	☐	50.000	52.394	312387.89	0.4881	P	0.7
3	☐	2500.000	2639.504	14810880.33	23.6226	A	1.0
4	☐	6250.000	6623.718	35806748.91	59.2505	A	0.8
5	☐	12500.000	13205.028	70597358.39	118.1021	A	2.1
6	☐	25000.000	26738.269	140705101.24	239.1197	A	6.8
7	☐	50000.000	51864.855	280425004.71	463.8077	A	0.9
8	☐	250000.00	249407.21	1350763357.6	2,230.279	A	0.6

$$y = 0.0089 * x + 0.0196$$

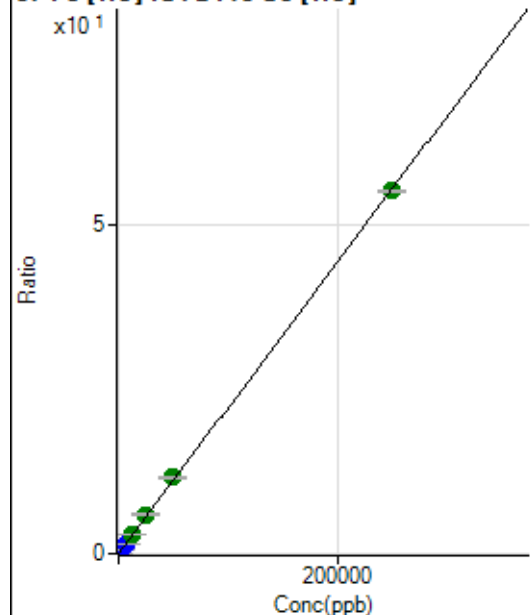
$$R = 1.0000$$

$$DL = 0.09737$$

$$BEC = 2.187$$

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	871.14	0.0014	P	4.1
2	☐	50.000	55.399	8719.26	0.0136	P	1.3
3	☐	2500.000	2756.379	383210.16	0.6112	P	1.9
4	☐	6250.000	6912.016	925000.19	1.5306	P	0.6
5	☐	12500.000	13259.245	1754366.19	2.9349	A	2.6
6	☐	25000.000	26892.813	3502714.91	5.9513	A	6.3
7	☐	50000.000	52239.957	6989109.34	11.5593	A	0.6
8	☐	250000.00	249305.65	33407679.50	55.1595	A	0.4

$$y = 2.2125E-004 * x + 0.0014$$

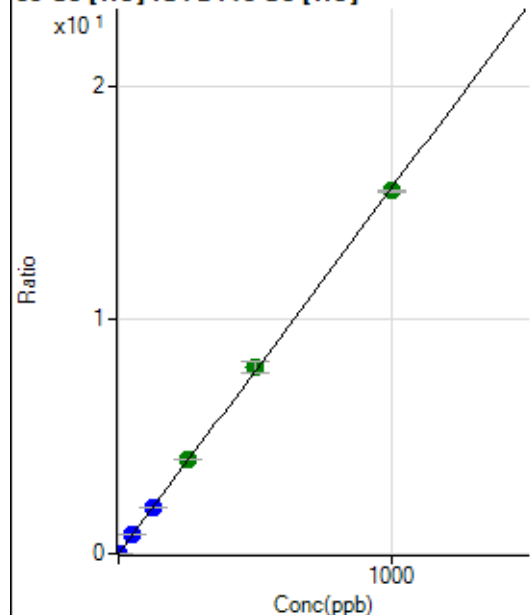
R = 0.9999

DL = 0.7538

BEC = 6.175

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	134.45	0.0002	P	26.
2	☐	1.000	1.053	10656.09	0.0166	P	0.7
3	☐	50.000	50.582	495264.76	0.7899	P	0.5
4	☐	125.000	127.148	1199737.24	1.9853	P	0.3
5	☐	250.000	257.595	2404205.10	4.0218	A	1.4
6	☐	500.000	510.051	4686202.57	7.9633	A	6.6
7	☐	1000.000	992.778	9371445.00	15.4997	A	0.5
8	☐			27759.03	0.0458	P	0.6

$$y = 0.0156 * x + 2.1083E-004$$

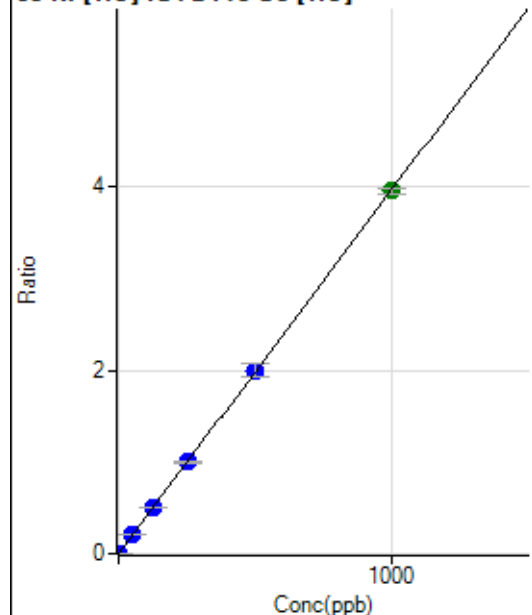
R = 0.9999

DL = 0.01051

BEC = 0.0135

Weight: <None>

Min Conc: 0

60 Ni [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	203.33	0.0003	P	12.
2	☐	1.000	1.003	2745.83	0.0043	P	3.7
3	☐	50.000	50.754	126253.59	0.2014	P	1.6
4	☐	125.000	127.234	304772.45	0.5043	P	0.4
5	☐	250.000	251.290	595247.89	0.9957	P	1.3
6	☐	500.000	503.192	1172943.90	1.9936	P	7.1
7	☐	1000.000	997.764	2389970.38	3.9527	A	1.4
8	☐			34602.10	0.0571	P	0.2

$$y = 0.0040 * x + 3.1893E-004$$

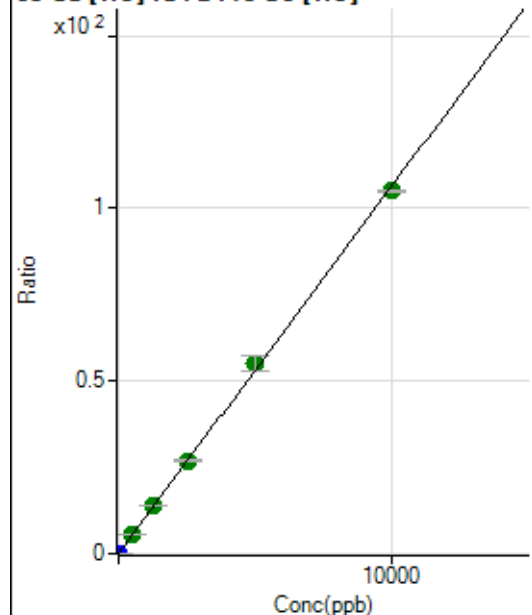
$$R = 1.0000$$

$$DL = 0.03011$$

$$BEC = 0.08051$$

Weight: <None>

Min Conc: 0

63 Cu [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1114.49	0.0017	P	4.8
2	☐	2.000	1.993	14683.98	0.0229	P	2.3
3	☐	500.000	516.248	3442587.38	5.4909	A	2.0
4	☐	1250.000	1303.275	8375188.07	13.8591	A	0.7
5	☐	2500.000	2539.233	16141616.56	27.0008	A	0.4
6	☐	5000.000	5204.222	32538833.13	55.3369	A	8.3
7	☐	10000.000	9880.609	63520852.94	105.0598	A	0.8
8	☐			14708.43	0.0243	P	1.6

$$y = 0.0106 * x + 0.0017$$

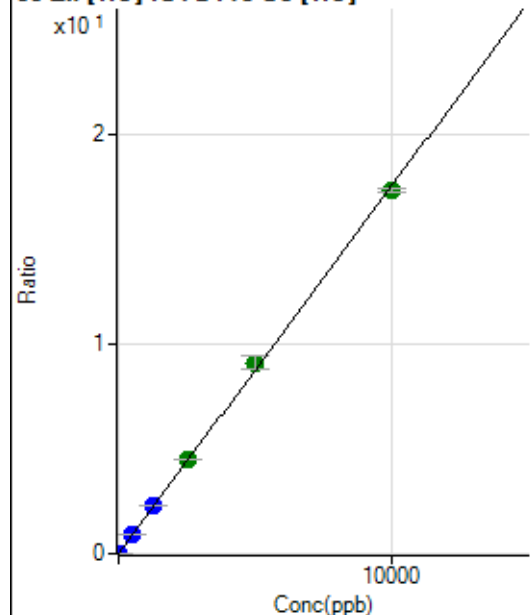
$$R = 0.9997$$

$$DL = 0.02379$$

$$BEC = 0.1644$$

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	831.14	0.0013	P	5.6
2	☐	5.000	5.492	7006.15	0.0109	P	1.4
3	☐	500.000	515.457	568295.66	0.9064	P	1.0
4	☐	1250.000	1293.845	1373684.63	2.2732	P	0.6
5	☐	2500.000	2579.249	2708282.29	4.5302	A	0.4
6	☐	5000.000	5199.249	5371432.84	9.1306	A	7.3
7	☐	10000.000	9874.309	10483779.22	17.3395	A	0.9
8	☐			8345.73	0.0138	P	0.9

$$y = 0.0018 * x + 0.0013$$

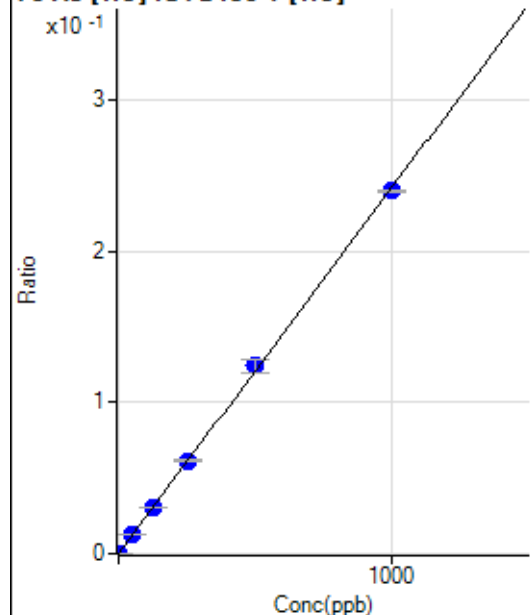
$$R = 0.9997$$

$$DL = 0.1257$$

$$BEC = 0.7424$$

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	14.45	0.0000	P	48.
2	☐	1.000	1.051	727.80	0.0003	P	8.6
3	☐	50.000	51.119	34141.45	0.0124	P	1.0
4	☐	125.000	126.612	82369.89	0.0306	P	0.4
5	☐	250.000	254.459	162827.46	0.0615	P	0.7
6	☐	500.000	512.932	325446.18	0.1239	P	8.1
7	☐	1000.000	992.162	647245.14	0.2397	P	0.3
8	☐			475.57	0.0002	P	9.6

$$y = 2.4159E-004 * x + 5.1601E-006$$

$$R = 0.9999$$

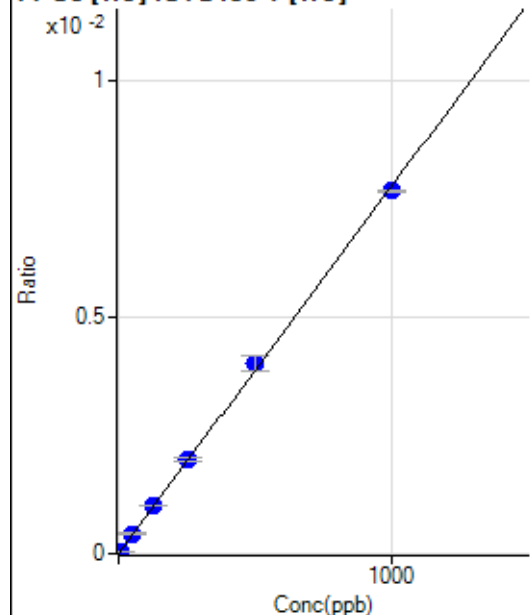
$$DL = 0.031$$

$$BEC = 0.02136$$

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	5.190	113.33	0.0000	P	18.
3	☐	50.000	54.158	1163.39	0.0004	P	4.8
4	☐	125.000	130.669	2734.72	0.0010	P	2.6
5	☐	250.000	256.804	5286.53	0.0020	P	4.4
6	☐	500.000	518.733	10596.09	0.0040	P	7.2
7	☐	1000.000	988.015	20741.26	0.0077	P	0.3
8	☐			7.78	0.0000	P	89.

$$y = 7.7743\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9997$$

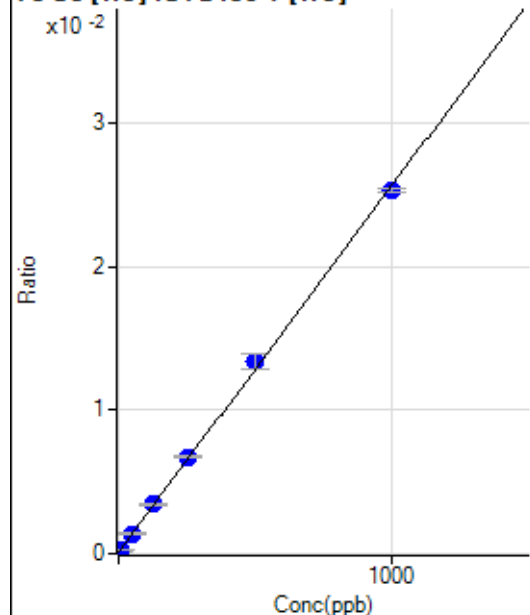
$$DL = 0$$

$$BEC = 0$$

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	270.01	0.0001	P	6.1
2	☐	5.000	4.967	626.69	0.0002	P	6.5
3	☐	50.000	51.007	3862.76	0.0014	P	2.1
4	☐	125.000	130.257	9208.49	0.0034	P	1.1
5	☐	250.000	259.537	17794.11	0.0067	P	1.8
6	☐	500.000	520.130	35104.87	0.0134	P	8.2
7	☐	1000.000	986.843	68254.03	0.0253	P	0.9
8	☐			285.56	0.0001	P	3.8

$$y = 2.5517\text{E-}005 * x + 9.6260\text{E-}005$$

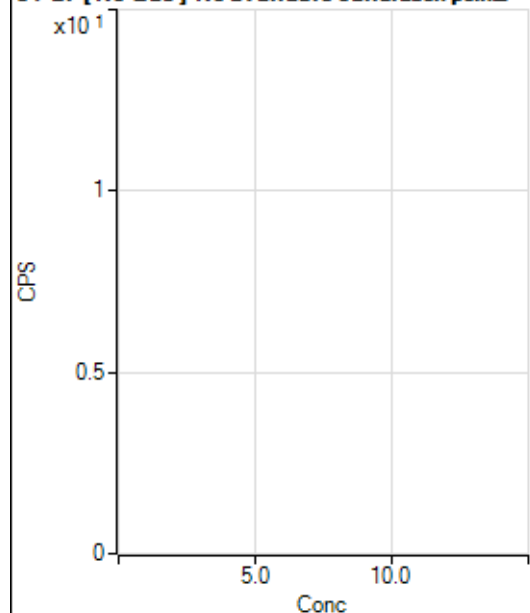
$$R = 0.9996$$

$$DL = 0.6876$$

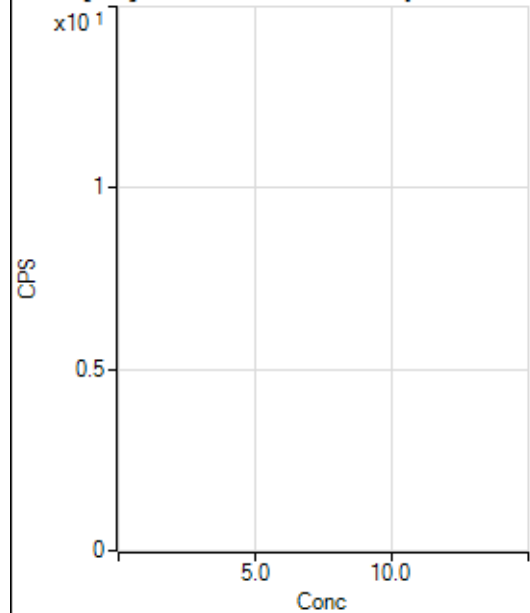
$$BEC = 3.772$$

Weight: <None>

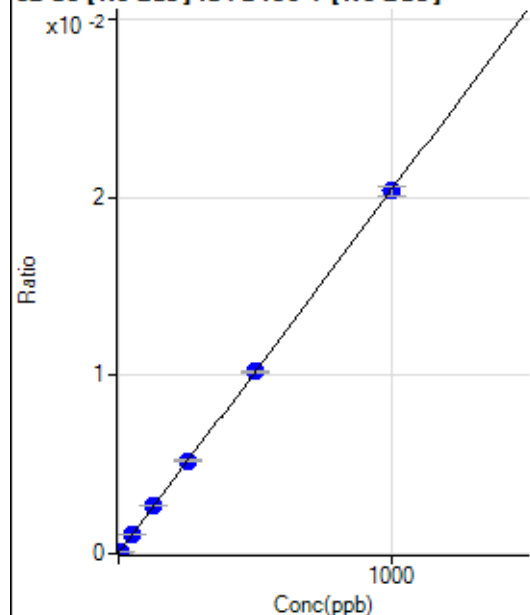
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			17979.93		P	1.0
2	☐			18538.39		P	1.8
3	☐			17887.63		P	2.8
4	☐			16905.35		P	1.1
5	☐			16267.96		P	2.2
6	☐			16677.28		P	0.0
7	☐			17524.96		P	0.9
8	☐			17420.40		P	1.7

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			230.00		P	5.8
2	☐			210.00		P	7.3
3	☐			210.00		P	8.4
4	☐			185.56		P	4.5
5	☐			181.12		P	14.
6	☐			181.12		P	15.
7	☐			202.23		P	13.
8	☐			126.67		P	19.

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	302.85	0.0000	P	11.
2	☐	5.000	5.129	1641.07	0.0001	P	4.0
3	☐	50.000	50.832	13624.05	0.0011	P	2.4
4	☐	125.000	129.102	32390.71	0.0027	P	0.4
5	☐	250.000	255.409	63205.25	0.0052	P	1.7
6	☐	500.000	500.438	124501.00	0.0102	P	0.9
7	☐	1000.000	997.874	243472.70	0.0204	P	2.8
8	☐			424.50	0.0000	P	10.

$$y = 2.0387E-005 * x + 2.4250E-005$$

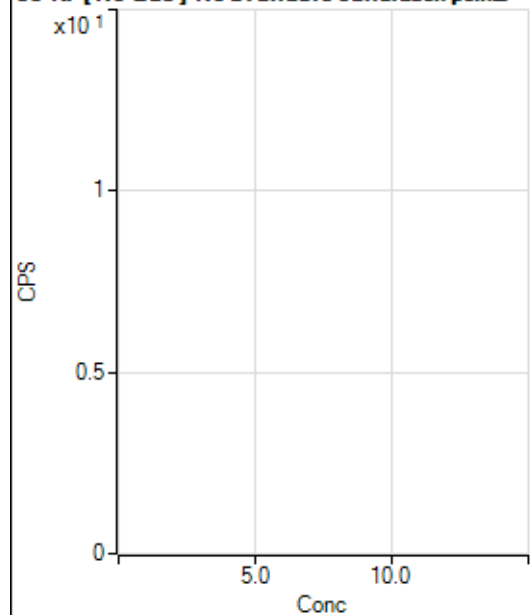
R = 1.0000

DL = 0.4196

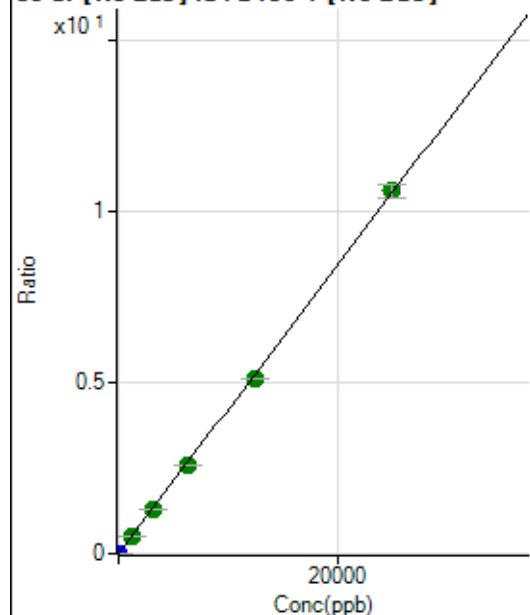
BEC = 1.19

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐			258.90		P	11.
2	☐			227.78		P	12.
3	☐			243.34		P	13.
4	☐			224.45		P	14.
5	☐			215.56		P	14.
6	☐			248.89		P	15.
7	☐			252.23		P	10.
8	☐			238.89		P	4.5

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	390.01	0.0000	P	8.2
2	☐	1.000	0.899	5213.19	0.0004	P	2.3
3	☐	1250.000	1187.453	6414251.01	0.4994	A	3.4
4	☐	3125.000	3075.770	15772587.26	1.2934	A	0.5
5	☐	6250.000	6135.861	31176091.48	2.5803	A	1.5
6	☐	12500.000	12164.516	62276276.85	5.1154	A	0.8
7	☐	25000.000	25205.558	126684705.89	10.5994	A	3.4
8	☐			23796.29	0.0020	P	14.

$$y = 4.2052\text{E-}004 * x + 3.1217\text{E-}005$$

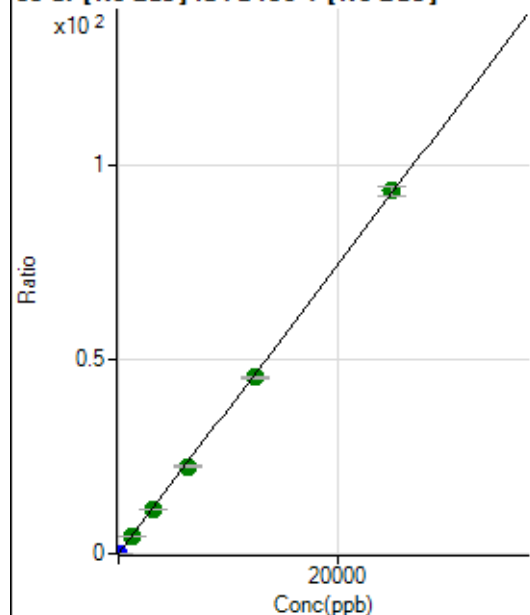
$$R = 0.9999$$

$$DL = 0.01816$$

$$BEC = 0.07424$$

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	275.56	0.0000	P	7.1
2	☐	1.000	0.919	43763.85	0.0034	P	2.1
3	☐	1250.000	1182.919	56455248.60	4.3950	A	2.9
4	☐	3125.000	3056.908	138494534.60	11.3576	A	0.7
5	☐	6250.000	6074.311	272679289.27	22.5683	A	1.7
6	☐	12500.000	12232.871	553298382.87	45.4497	A	1.6
7	☐	25000.000	25189.352	1118682170.0	93.5878	A	2.9
8	☐			203797.13	0.0172	P	15.

$$y = 0.0037 * x + 2.2063\text{E-}005$$

$$R = 0.9999$$

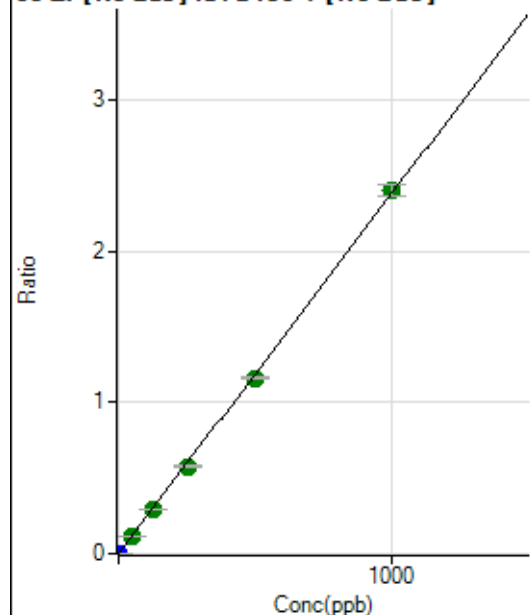
$$DL = 0.001269$$

$$BEC = 0.005938$$

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	797.81	0.0001	P	4.6
2	☐	1.000	0.852	26654.23	0.0021	P	1.4
3	☐	50.000	47.348	1448364.94	0.1127	A	2.2
4	☐	125.000	122.141	3545310.75	0.2907	A	0.8
5	☐	250.000	242.287	6967956.91	0.5767	A	1.5
6	☐	500.000	487.909	14136608.54	1.1612	A	1.3
7	☐	1000.000	1008.464	28687392.35	2.4001	A	3.2
8	☐			14542.88	0.0012	P	5.1

$$y = 0.0024 * x + 6.3877E-005$$

$$R = 0.9999$$

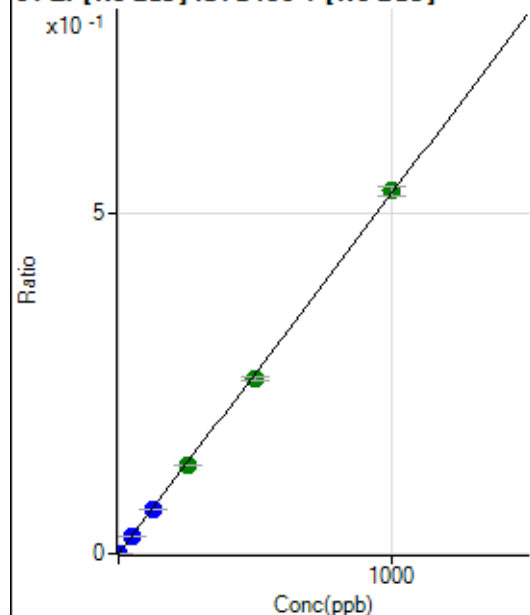
$$DL = 0.003712$$

$$BEC = 0.02684$$

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	170.00	0.0000	P	16.
2	☐	1.000	0.842	5859.01	0.0005	P	3.1
3	☐	50.000	46.802	318866.74	0.0248	P	3.0
4	☐	125.000	121.660	786625.09	0.0645	P	0.5
5	☐	250.000	245.831	1574744.54	0.1303	A	1.7
6	☐	500.000	488.425	3152214.15	0.2589	A	2.2
7	☐	1000.000	1007.407	6383942.20	0.5340	A	2.7
8	☐			3342.63	0.0003	P	8.8

$$y = 5.3011E-004 * x + 1.3618E-005$$

$$R = 0.9999$$

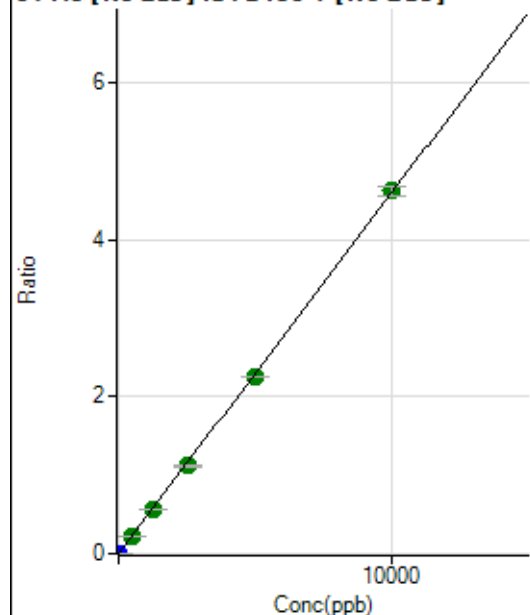
$$DL = 0.0124$$

$$BEC = 0.02569$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	325.56	0.0000	P	7.0
2	☐	5.000	5.340	31545.10	0.0025	P	0.5
3	☐	500.000	475.626	2803195.34	0.2182	A	3.2
4	☐	1250.000	1231.412	6889554.97	0.5650	A	0.5
5	☐	2500.000	2434.458	13495300.77	1.1169	A	1.5
6	☐	5000.000	4910.667	27428635.15	2.2530	A	0.6
7	☐	10000.000	10064.594	55194878.07	4.6175	A	2.8
8	☐			25360.97	0.0021	P	6.3

$$y = 4.5879\text{E-}004 * x + 2.6070\text{E-}005$$

$$R = 0.9999$$

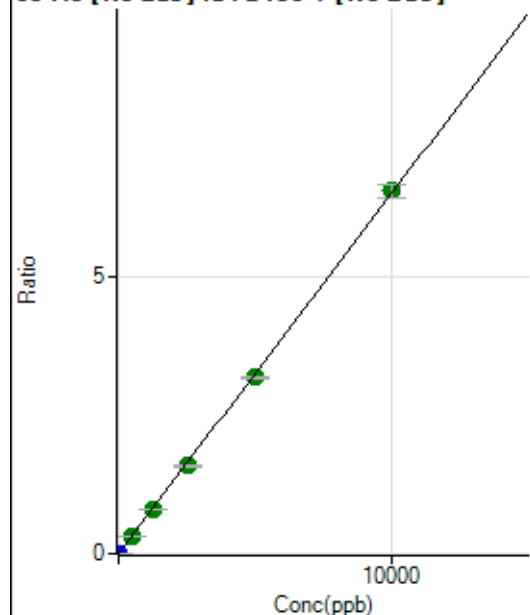
$$DL = 0.01196$$

$$BEC = 0.05682$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	57.78	0.0000	P	44.
2	☐	5.000	4.609	38207.55	0.0030	P	1.1
3	☐	500.000	474.711	3961588.59	0.3084	A	3.3
4	☐	1250.000	1225.598	9709769.09	0.7963	A	0.6
5	☐	2500.000	2438.069	19138444.30	1.5840	A	1.7
6	☐	5000.000	4895.750	38721849.70	3.1807	A	1.7
7	☐	10000.000	10071.923	78204747.17	6.5436	A	3.7
8	☐			35990.95	0.0030	P	5.2

$$y = 6.4969\text{E-}004 * x + 4.6281\text{E-}006$$

$$R = 0.9999$$

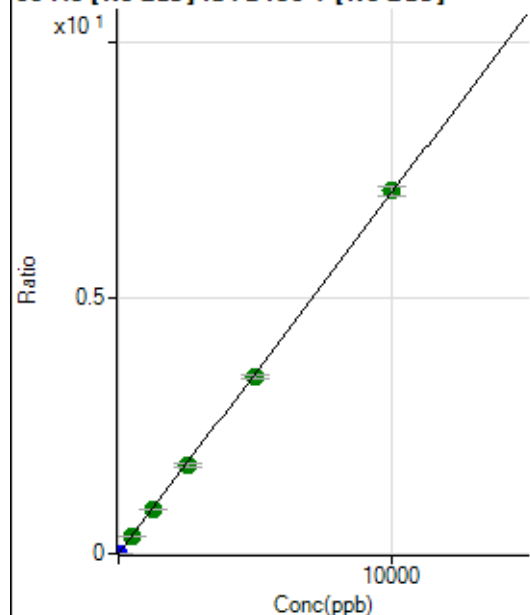
$$DL = 0.009593$$

$$BEC = 0.007124$$

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	172.23	0.0000	P	25.
2	☐	5.000	4.687	42258.62	0.0033	P	1.1
3	☐	500.000	475.206	4302329.21	0.3349	A	2.6
4	☐	1250.000	1229.769	10569120.05	0.8667	A	0.2
5	☐	2500.000	2457.677	20926574.41	1.7321	A	2.8
6	☐	5000.000	4912.151	42145755.76	3.4619	A	2.0
7	☐	10000.000	10058.274	84737328.18	7.0888	A	2.7
8	☐			46090.33	0.0039	P	6.1

$$y = 7.0477\text{E-}004 * x + 1.3770\text{E-}005$$

$$R = 0.9999$$

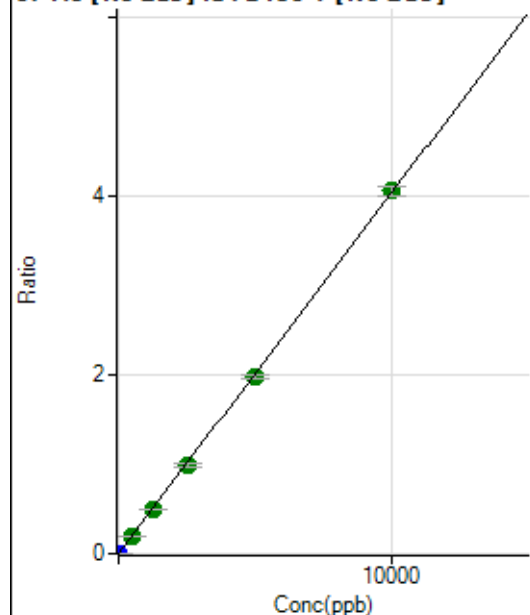
$$DL = 0.01465$$

$$BEC = 0.01954$$

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	56.66	0.0000	P	39.
2	☐	5.000	4.604	23694.81	0.0019	P	1.1
3	☐	500.000	477.589	2472243.43	0.1925	A	3.4
4	☐	1250.000	1233.713	6062614.63	0.4972	A	0.6
5	☐	2500.000	2459.779	11976011.49	0.9913	A	2.8
6	☐	5000.000	4910.462	24090622.14	1.9789	A	2.0
7	☐	10000.000	10057.981	48453551.50	4.0533	A	2.6
8	☐			21559.33	0.0018	P	7.1

$$y = 4.0299\text{E-}004 * x + 4.5268\text{E-}006$$

$$R = 0.9999$$

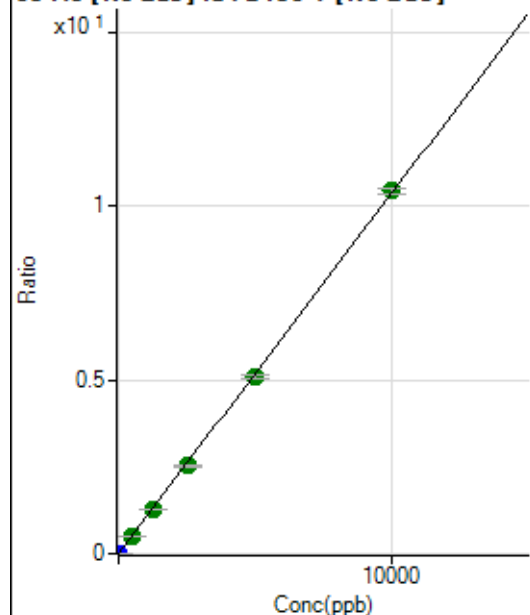
$$DL = 0.01346$$

$$BEC = 0.01123$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	124.45	0.0000	P	10.
2	☐	5.000	4.661	61664.93	0.0048	P	1.4
3	☐	500.000	475.716	6332178.93	0.4930	A	3.3
4	☐	1250.000	1228.481	15523402.83	1.2730	A	1.0
5	☐	2500.000	2439.753	30546826.21	2.5283	A	2.0
6	☐	5000.000	4900.109	61815826.30	5.0778	A	1.8
7	☐	10000.000	10068.912	124750599.25	10.4341	A	1.7
8	☐			54971.09	0.0046	P	7.3

$$y = 0.0010 * x + 9.9648E-006$$

$$R = 0.9999$$

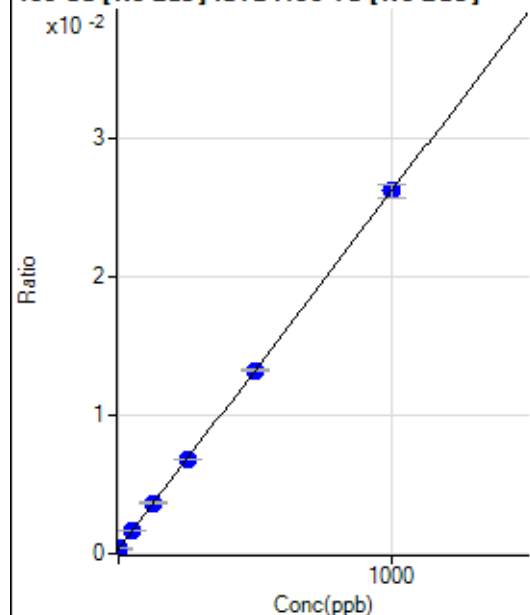
$$DL = 0.002874$$

$$BEC = 0.009616$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	5415.49	0.0003	P	0.7
2	☐	1.000	1.479	6113.56	0.0004	P	2.7
3	☐	50.000	51.363	27841.19	0.0017	P	0.4
4	☐	125.000	128.720	59404.18	0.0037	P	2.3
5	☐	250.000	249.291	110572.12	0.0068	P	0.8
6	☐	500.000	498.705	213617.48	0.0132	P	1.0
7	☐	1000.000	1000.291	418380.88	0.0262	P	3.8
8	☐			5332.14	0.0004	P	4.1

$$y = 2.5902E-005 * x + 3.3229E-004$$

$$R = 1.0000$$

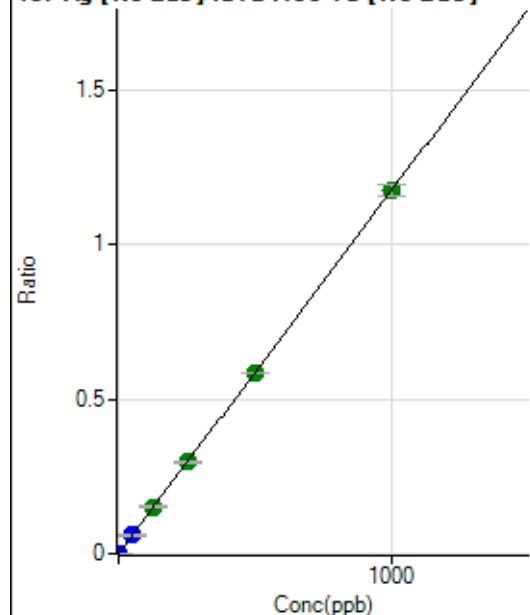
$$DL = 0.2793$$

$$BEC = 12.83$$

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	96.67	0.0000	P	33.
2	☐	1.000	0.981	19079.29	0.0012	P	1.6
3	☐	50.000	50.436	990660.61	0.0592	P	1.9
4	☐	125.000	129.555	2462464.74	0.1520	A	1.2
5	☐	250.000	251.710	4808574.82	0.2953	A	0.4
6	☐	500.000	499.433	9445318.05	0.5858	A	0.4
7	☐	1000.000	999.265	18690147.78	1.1721	A	3.2
8	☐			4600.78	0.0003	P	9.3

$$y = 0.0012 * x + 5.9167E-006$$

$$R = 1.0000$$

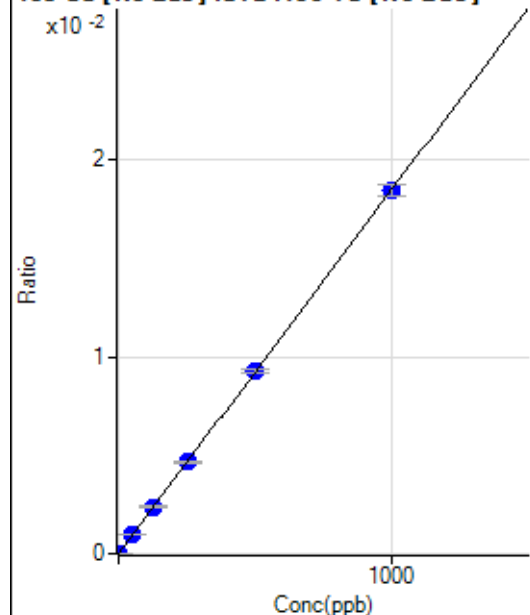
$$DL = 0.005121$$

$$BEC = 0.005044$$

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	26.67	0.0000	P	12.
2	☐	1.000	1.036	342.23	0.0000	P	5.6
3	☐	50.000	51.278	15874.32	0.0009	P	0.1
4	☐	125.000	129.039	38613.58	0.0024	P	1.0
5	☐	250.000	251.191	75525.20	0.0046	P	0.9
6	☐	500.000	503.153	149734.33	0.0093	P	1.6
7	☐	1000.000	997.557	293588.97	0.0184	P	3.2
8	☐			151.12	0.0000	P	12.

$$y = 1.8456E-005 * x + 1.6361E-006$$

$$R = 1.0000$$

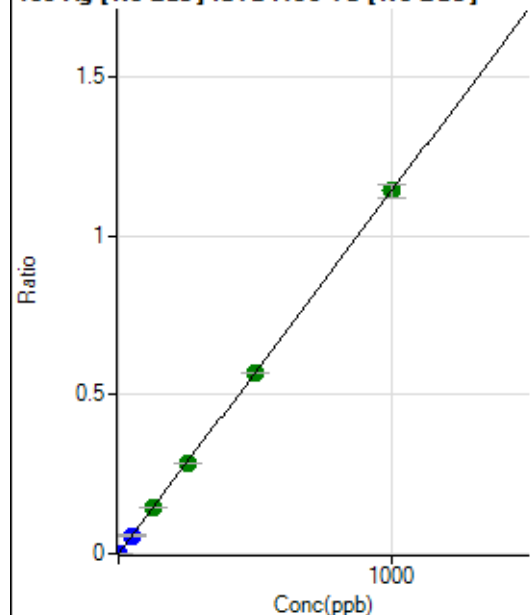
$$DL = 0.03324$$

$$BEC = 0.08865$$

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	44.44	0.0000	P	30.
2	☐	1.000	0.947	17860.00	0.0011	P	1.6
3	☐	50.000	49.931	952970.01	0.0569	P	2.0
4	☐	125.000	128.855	2379842.05	0.1469	A	1.0
5	☐	250.000	250.194	4644473.58	0.2852	A	0.3
6	☐	500.000	498.423	9159796.67	0.5681	A	0.5
7	☐	1000.000	1000.262	18177100.15	1.1402	A	3.8
8	☐			4302.91	0.0003	P	13.

$$y = 0.0011 * x + 2.7212E-006$$

$$R = 1.0000$$

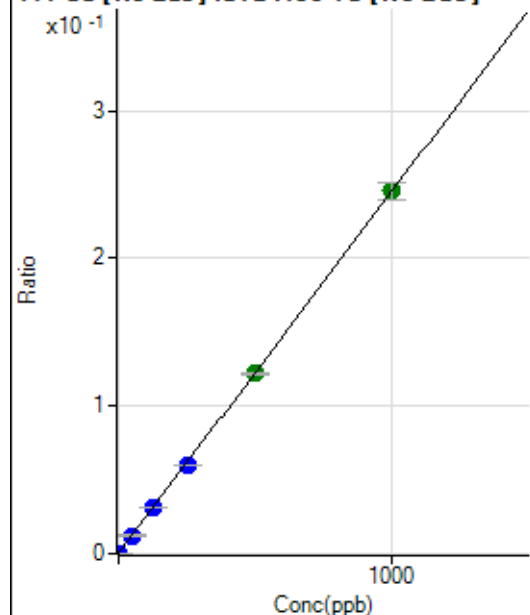
$$DL = 0.002153$$

$$BEC = 0.002387$$

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	3834.40	0.0002	P	1.0
2	☐	1.000	1.042	8090.53	0.0005	P	2.4
3	☐	50.000	49.313	206101.21	0.0123	P	2.1
4	☐	125.000	125.600	502109.29	0.0310	P	0.9
5	☐	250.000	244.572	979099.98	0.0601	P	1.3
6	☐	500.000	498.275	1970791.45	0.1222	A	1.0
7	☐	1000.000	1002.179	3915103.82	0.2456	A	4.7
8	☐			4542.31	0.0003	P	4.5

$$y = 2.4485E-004 * x + 2.3527E-004$$

$$R = 1.0000$$

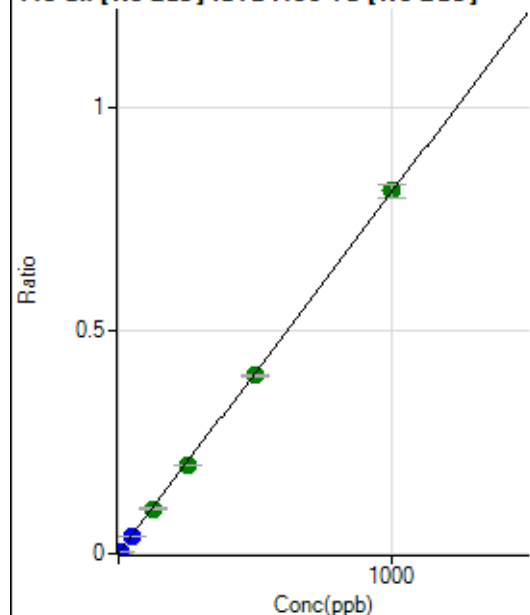
$$DL = 0.02984$$

$$BEC = 0.9609$$

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	13486.51	0.0008	P	3.4
2	☐	5.000	4.656	75813.96	0.0046	P	1.8
3	☐	50.000	47.685	660134.16	0.0394	P	1.6
4	☐	125.000	124.159	1641810.62	0.1013	A	1.0
5	☐	250.000	245.366	3248003.56	0.1994	A	0.7
6	☐	500.000	494.061	6460880.94	0.4007	A	1.1
7	☐	1000.000	1004.351	12974721.89	0.8138	A	3.6
8	☐			11630.35	0.0008	P	3.6

$$y = 8.0944\text{E-}004 * x + 8.2764\text{E-}004$$

$$R = 1.0000$$

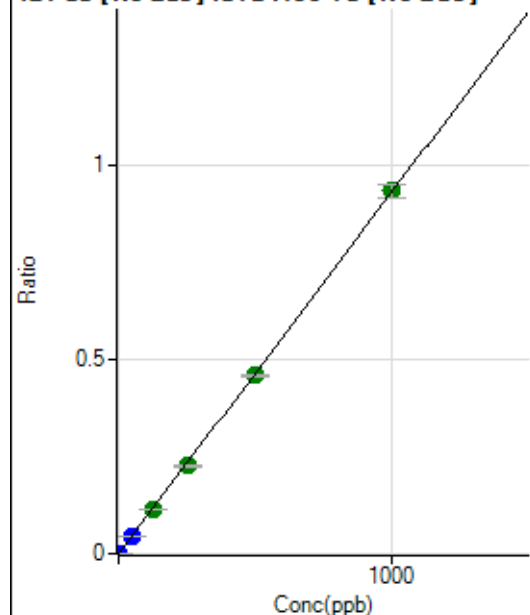
$$DL = 0.104$$

$$BEC = 1.022$$

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	134.45	0.0000	P	19.
2	☐	2.000	1.826	28124.26	0.0017	P	2.2
3	☐	50.000	46.771	727865.01	0.0435	P	1.9
4	☐	125.000	122.813	1849320.30	0.1141	A	0.8
5	☐	250.000	243.948	3692152.41	0.2267	A	1.4
6	☐	500.000	494.061	7402350.79	0.4591	A	1.1
7	☐	1000.000	1004.918	14888343.25	0.9339	A	3.8
8	☐			11764.90	0.0008	P	3.4

$$y = 9.2929\text{E-}004 * x + 8.2545\text{E-}006$$

$$R = 1.0000$$

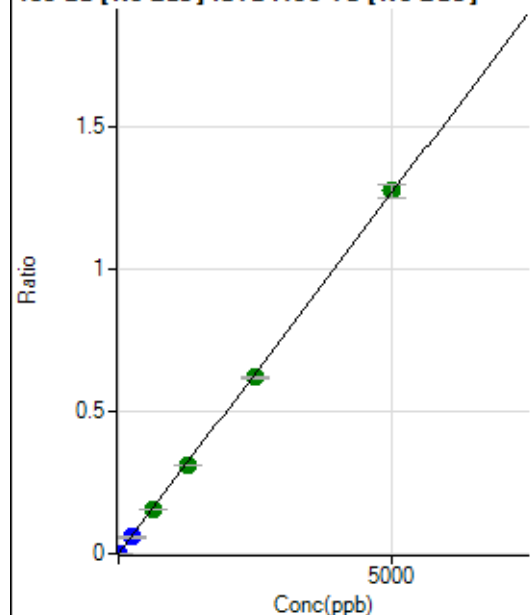
$$DL = 0.005279$$

$$BEC = 0.008883$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	133.34	0.0000	P	19.
2	☐	10.000	9.038	37811.16	0.0023	P	1.5
3	☐	250.000	228.813	968345.15	0.0578	P	2.0
4	☐	625.000	618.371	2532264.41	0.1563	A	0.6
5	☐	1250.000	1220.391	5023011.18	0.3084	A	0.7
6	☐	2500.000	2451.637	9989347.00	0.6196	A	1.0
7	☐	5000.000	5033.474	20282939.84	1.2721	A	3.5
8	☐			7940.07	0.0005	P	5.3

$$y = 2.5272\text{E-}004 * x + 8.1704\text{E-}006$$

$$R = 0.9999$$

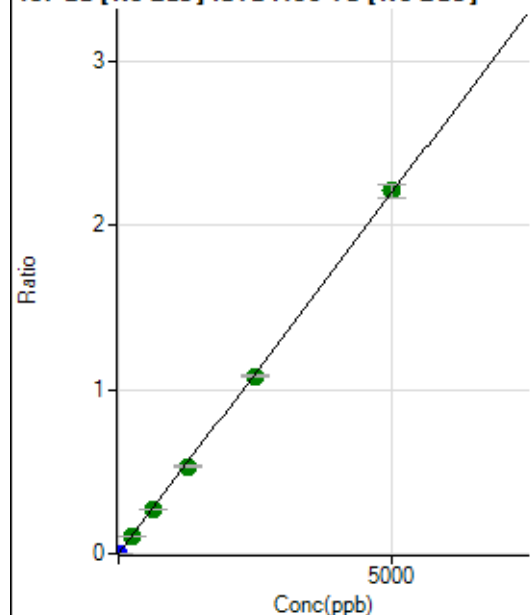
$$DL = 0.01878$$

$$BEC = 0.03233$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	287.78	0.0000	P	3.9
2	☐	10.000	8.972	65301.17	0.0040	P	1.5
3	☐	250.000	243.678	1792607.89	0.1071	A	1.8
4	☐	625.000	620.007	4413340.18	0.2724	A	0.5
5	☐	1250.000	1208.556	8646465.43	0.5309	A	0.9
6	☐	2500.000	2462.213	17438340.85	1.0816	A	1.1
7	☐	5000.000	5030.197	35231941.42	2.2097	A	3.9
8	☐			14062.62	0.0009	P	6.1

$$y = 4.3928\text{E-}004 * x + 1.7662\text{E-}005$$

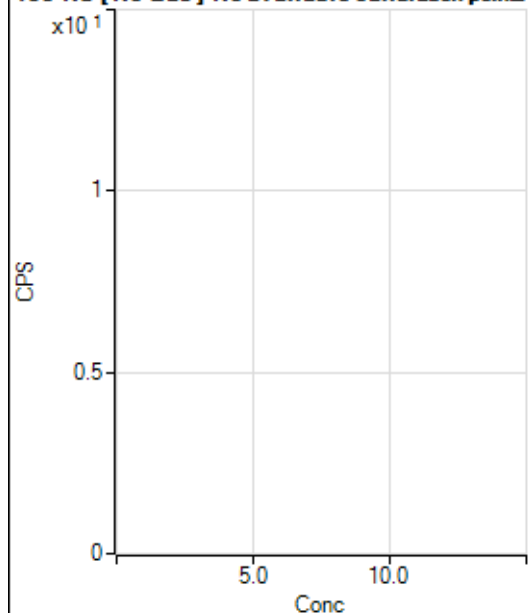
$$R = 0.9999$$

$$DL = 0.00473$$

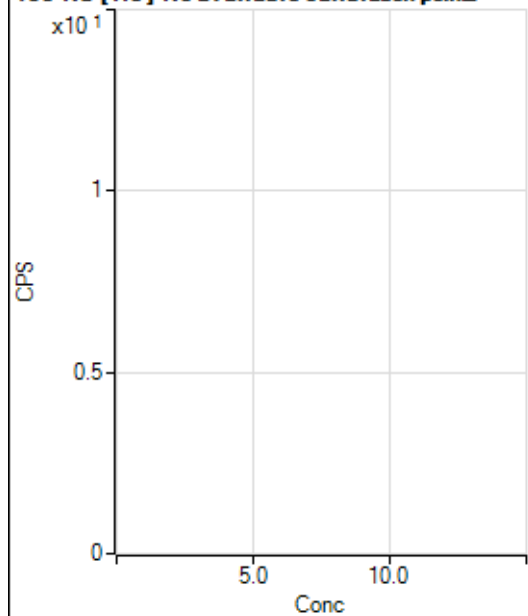
$$BEC = 0.04021$$

Weight: <None>

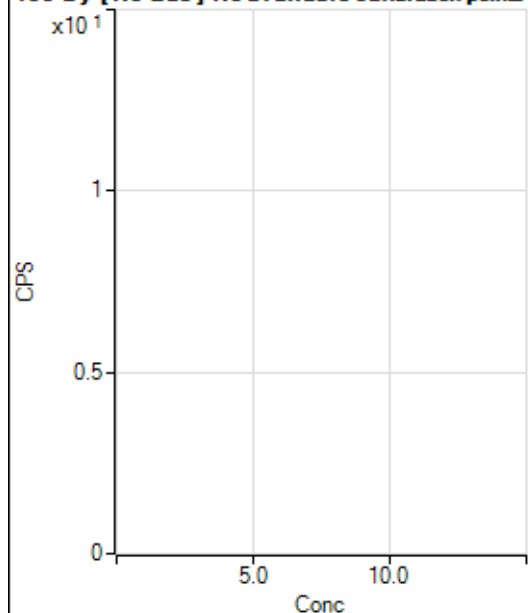
Min Conc: 0

150 Nd [No Gas] No available calibration points

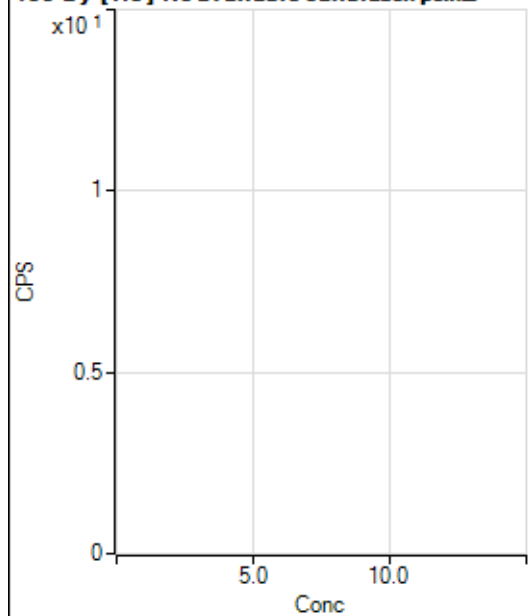
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			7.78		P	24.
2	☐			10.00		P	57.
3	☐			138.89		P	15.
4	☐			356.68		P	9.0
5	☐			625.58		P	9.1
6	☐			1256.74		P	7.8
7	☐			2566.93		P	0.5
8	☐			368.90		P	6.0

150 Nd [He] No available calibration points

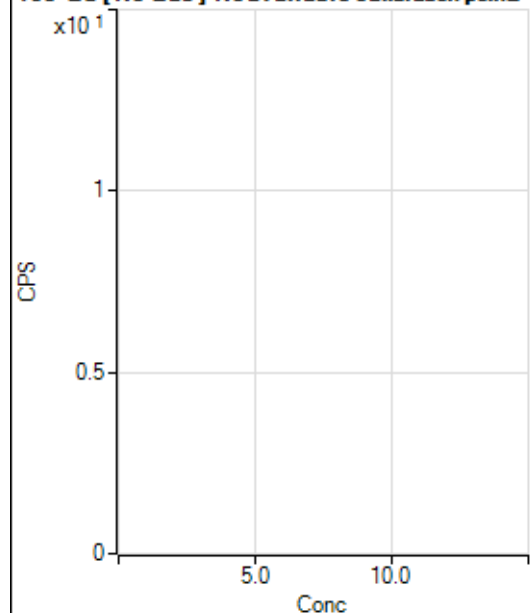
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			7.78		P	89.
2	☐			7.78		P	24.
3	☐			42.22		P	24.
4	☐			78.89		P	2.4
5	☐			197.78		P	5.4
6	☐			356.67		P	14.
7	☐			796.70		P	10.
8	☐			173.34		P	15.

156 Dy [No Gas] No available calibration points

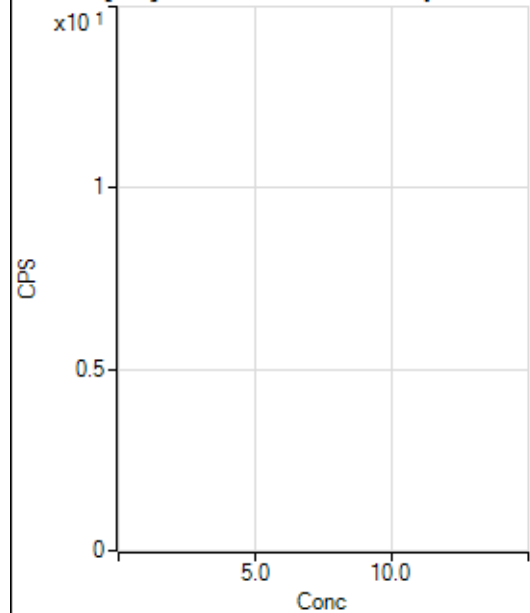
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			12.22		P	56.
2	☐			10.00		P	0.0
3	☐			83.33		P	30.
4	☐			204.45		P	13.
5	☐			340.01		P	16.
6	☐			731.14		P	4.1
7	☐			1586.77		P	1.5
8	☐			564.47		P	8.8

156 Dy [He] No available calibration points

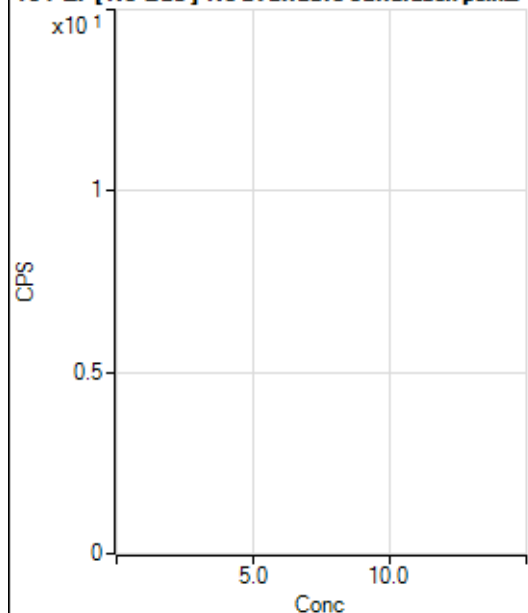
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			10.00		P	33.
2	☐			6.67		P	50.
3	☐			84.44		P	19.
4	☐			194.45		P	1.0
5	☐			390.01		P	7.4
6	☐			826.70		P	8.4
7	☐			1505.65		P	6.0
8	☐			398.90		P	2.9

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

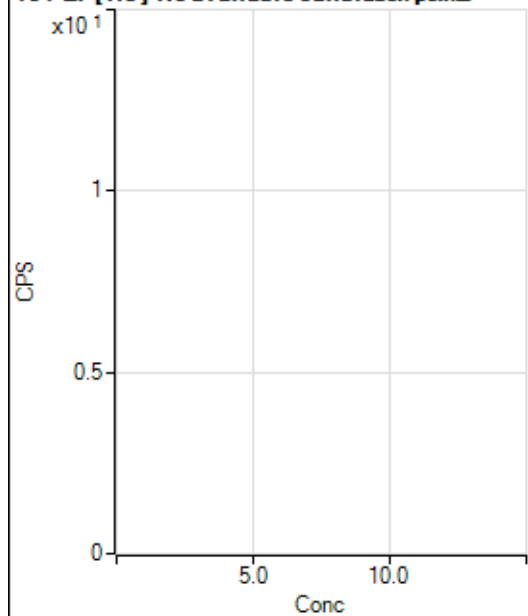
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			121.11		P	17.
2	☐			121.11		P	23.
3	☐			215.56		P	11.
4	☐			285.56		P	6.0
5	☐			443.34		P	16.
6	☐			776.70		P	8.6
7	☐			1414.53		P	6.1
8	☐			547.79		P	8.5

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			474.46		P	3.3
2	☐			455.57		P	8.0
3	☐			534.46		P	15.
4	☐			498.90		P	10.
5	☐			705.58		P	9.2
6	☐			873.37		P	2.7
7	☐			1241.18		P	7.1
8	☐			783.36		P	2.2

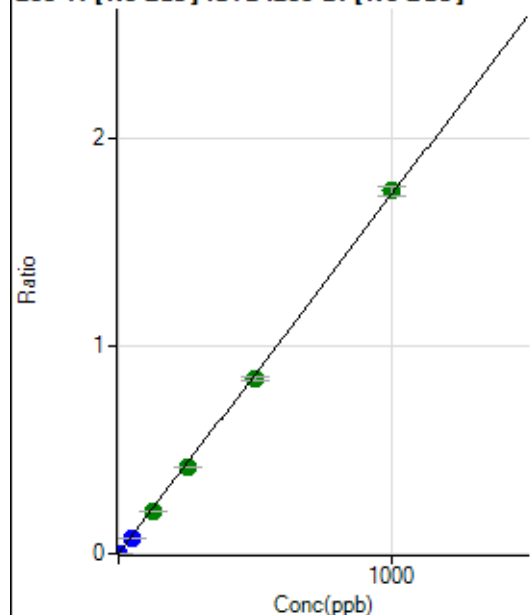
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			125.56		P	19.
2	☐			113.33		P	10.
3	☐			164.45		P	13.
4	☐			196.67		P	11.
5	☐			283.34		P	5.9
6	☐			404.46		P	5.5
7	☐			793.36		P	4.4
8	☐			636.69		P	10.

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			82.22		P	8.4
2	☐			52.22		P	26.
3	☐			75.55		P	14.
4	☐			121.11		P	7.9
5	☐			154.45		P	6.6
6	☐			247.78		P	15.
7	☐			510.02		P	14.
8	☐			371.12		P	5.7

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	515.57	0.0001	P	7.3
2	☐	1.000	0.824	14581.26	0.0015	P	0.2
3	☐	50.000	42.276	741035.93	0.0732	P	2.0
4	☐	125.000	120.153	2033789.10	0.2078	A	0.5
5	☐	250.000	240.814	4023295.08	0.4165	A	1.5
6	☐	500.000	485.802	8021748.22	0.8402	A	2.5
7	☐	1000.000	1010.388	16016572.26	1.7474	A	2.7
8	☐			4802.00	0.0006	P	6.6

$$y = 0.0017 * x + 5.2393E-005$$

$$R = 0.9998$$

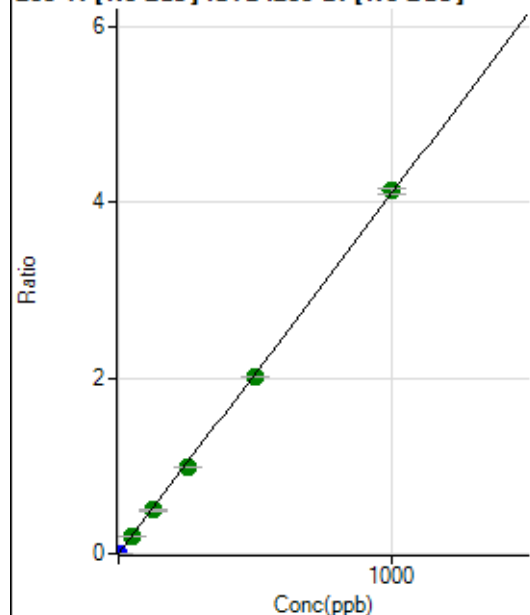
$$DL = 0.00667$$

$$BEC = 0.0303$$

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	1125.61	0.0001	P	8.1
2	☐	1.000	0.837	34951.52	0.0035	P	0.2
3	☐	50.000	46.839	1943520.56	0.1919	A	2.2
4	☐	125.000	120.876	4843783.16	0.4950	A	2.6
5	☐	250.000	240.451	9510489.51	0.9846	A	1.5
6	☐	500.000	491.054	19199334.02	2.0107	A	0.8
7	☐	1000.000	1007.534	37818158.88	4.1253	A	1.6
8	☐			11726.29	0.0015	P	7.2

$$y = 0.0041 * x + 1.1442E-004$$

$$R = 0.9999$$

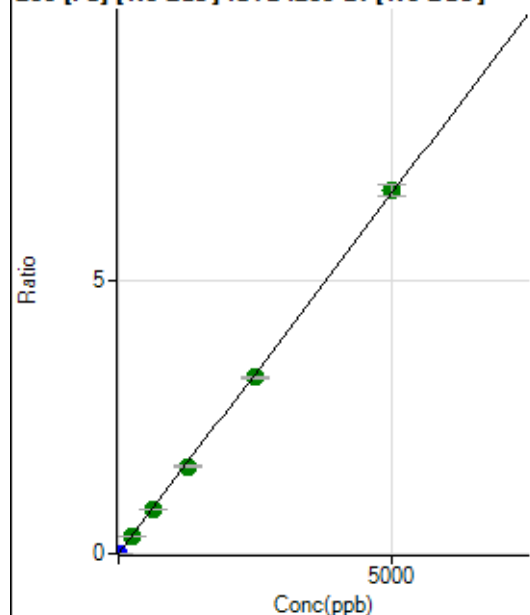
$$DL = 0.006826$$

$$BEC = 0.02795$$

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	960.04	0.0001	P	2.5
2	☐	1.000	0.872	12323.45	0.0012	P	1.6
3	☐	250.000	234.652	3139929.99	0.3100	A	3.0
4	☐	625.000	604.751	7817060.58	0.7989	A	0.9
5	☐	1250.000	1213.942	15488893.80	1.6035	A	1.4
6	☐	2500.000	2446.415	30856116.49	3.2315	A	1.0
7	☐	5000.000	5039.106	61002799.65	6.6560	A	3.3
8	☐			16855.04	0.0021	P	6.7

$$y = 0.0013 * x + 9.7584E-005$$

$$R = 0.9999$$

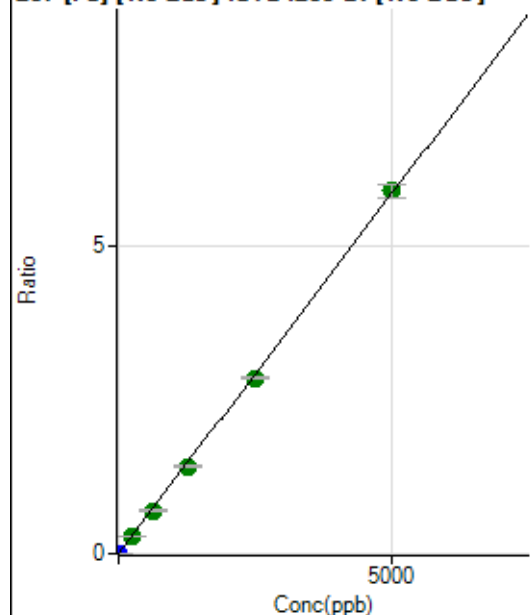
$$DL = 0.005432$$

$$BEC = 0.07388$$

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	858.93	0.0001	P	3.7
2	☐	1.000	0.879	11003.42	0.0011	P	3.1
3	☐	250.000	234.387	2775581.35	0.2741	A	2.8
4	☐	625.000	600.447	6868763.65	0.7020	A	0.4
5	☐	1250.000	1212.481	13691101.88	1.4174	A	1.4
6	☐	2500.000	2440.791	27244760.15	2.8532	A	0.8
7	☐	5000.000	5042.834	54020100.86	5.8948	A	3.8
8	☐			14551.26	0.0018	P	6.8

$$y = 0.0012 * x + 8.7337E-005$$

$$R = 0.9999$$

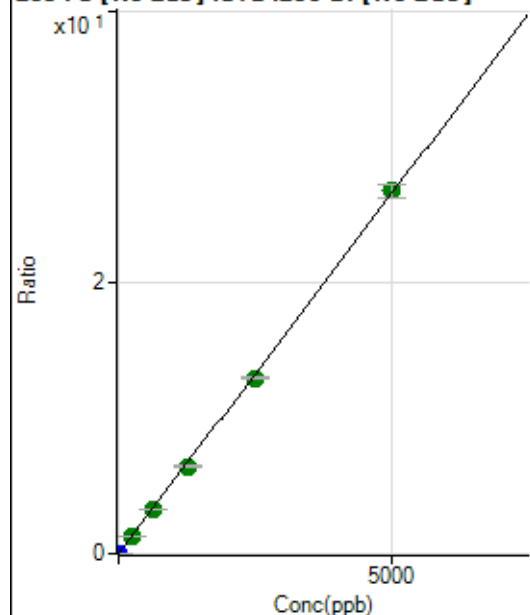
$$DL = 0.008304$$

$$BEC = 0.07472$$

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	3860.26	0.0004	P	0.9
2	☐	1.000	0.880	49911.82	0.0051	P	1.8
3	☐	250.000	234.022	12567648.18	1.2410	A	2.9
4	☐	625.000	602.366	31249450.23	3.1936	A	0.2
5	☐	1250.000	1210.780	62001905.47	6.4189	A	1.8
6	☐	2500.000	2442.815	123663288.99	12.9500	A	0.4
7	☐	5000.000	5042.026	244959760.80	26.7287	A	3.4
8	☐			66584.34	0.0084	P	7.2

$$y = 0.0053 * x + 3.9242E-004$$

$$R = 0.9999$$

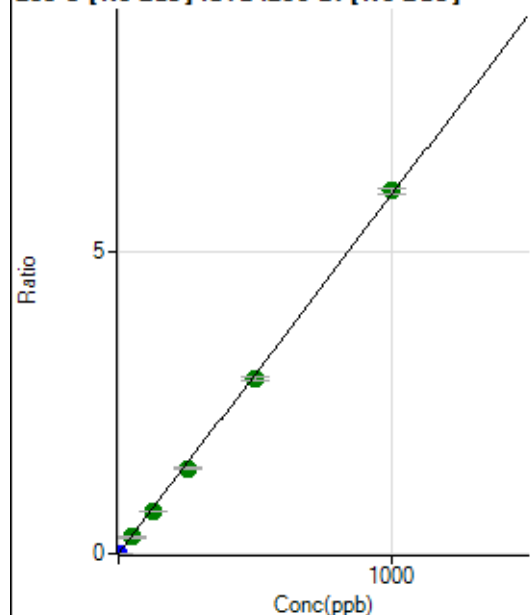
$$DL = 0.002098$$

$$BEC = 0.07403$$

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	67.78	0.0000	P	12.
2	☐	1.000	0.782	46045.84	0.0047	P	2.0
3	☐	50.000	45.804	2764019.79	0.2729	A	2.4
4	☐	125.000	117.609	6856837.54	0.7008	A	1.5
5	☐	250.000	237.642	13677388.54	1.4159	A	2.3
6	☐	500.000	486.947	27709563.75	2.9014	A	1.4
7	☐	1000.000	1010.750	55207371.40	6.0224	A	1.6
8	☐			10538.80	0.0013	P	16.

$$y = 0.0060 * x + 6.8928E-006$$

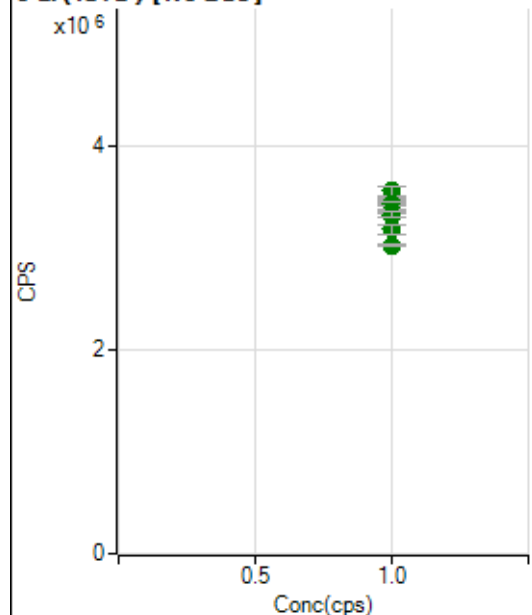
$$R = 0.9998$$

$$DL = 0.0004444$$

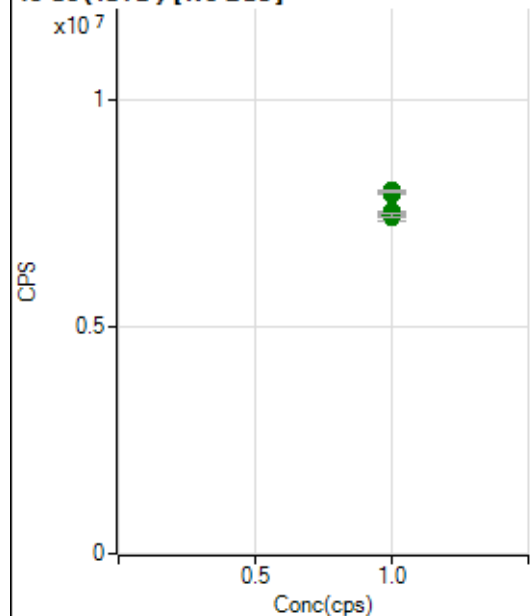
$$BEC = 0.001157$$

Weight: <None>

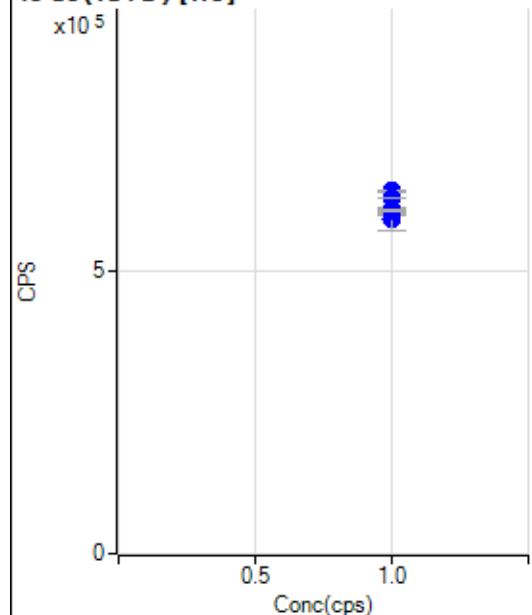
Min Conc: 0

6 Li (ISTD) [No Gas]

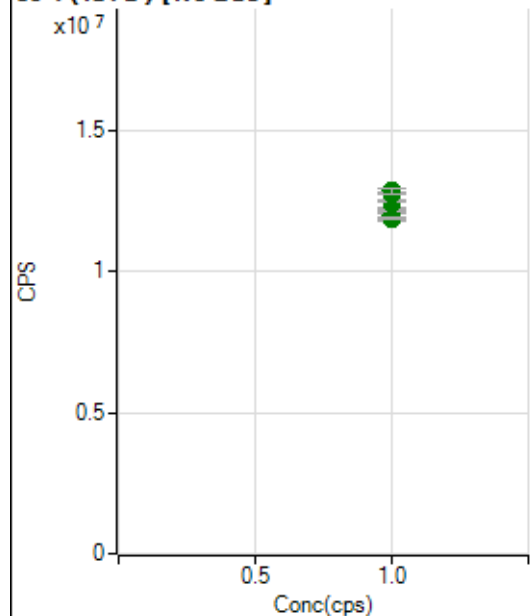
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		3448782.97		A	0.0
2	☐	1.000		3483024.88		A	0.7
3	☐	1.000		3566451.23		A	2.3
4	☐	1.000		3448722.28		A	1.1
5	☐	1.000		3366199.47		A	0.7
6	☐	1.000		3334200.30		A	1.8
7	☐	1.000		3189768.49		A	2.9
8	☐	1.000		3032986.90		A	0.7

45 Sc (ISTD) [No Gas]

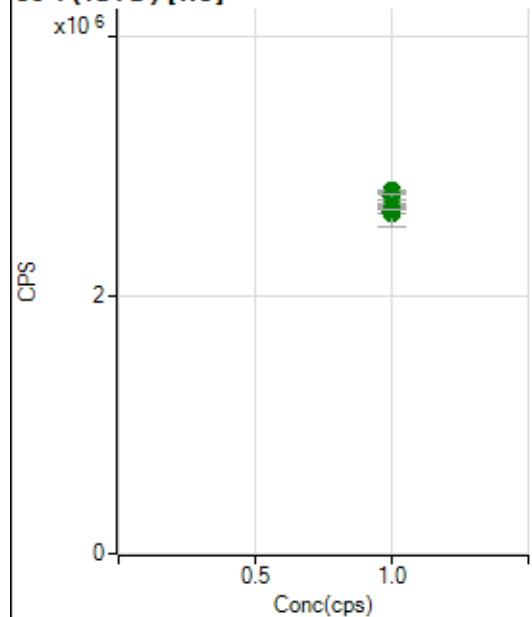
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		7948521.13		A	0.1
2	☐	1.000		7989376.48		A	0.5
3	☐	1.000		8008856.06		A	0.6
4	☐	1.000		7536733.77		A	0.2
5	☐	1.000		7517898.99		A	0.5
6	☐	1.000		7499152.74		A	1.2
7	☐	1.000		7448207.39		A	3.2
8	☐	1.000		7479467.88		A	0.9

45 Sc (ISTD) [He]

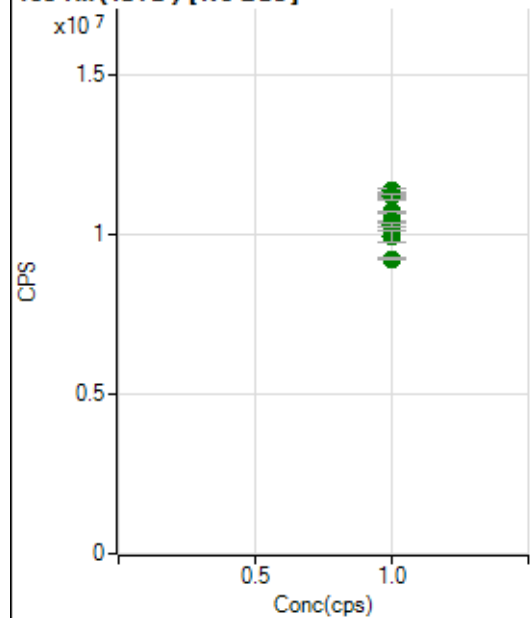
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		637604.34		P	0.1
2	☐	1.000		640043.75		P	0.2
3	☐	1.000		626991.04		P	0.3
4	☐	1.000		604325.99		P	0.7
5	☐	1.000		597821.82		P	0.7
6	☐	1.000		590346.55		P	7.2
7	☐	1.000		604625.75		P	0.3
8	☐	1.000		605654.21		P	0.4

89 Y (ISTD) [No Gas]

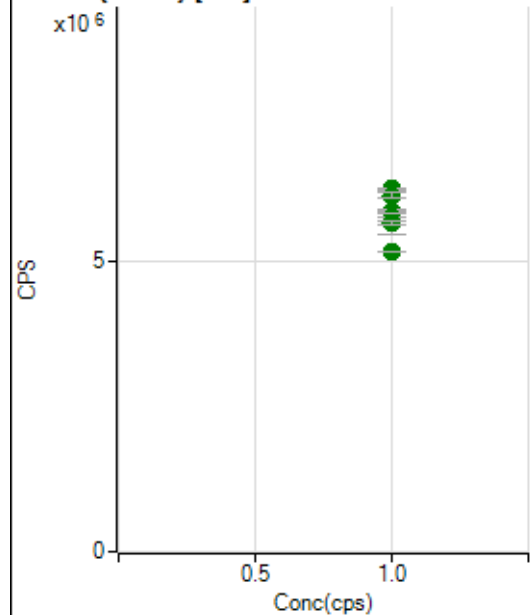
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		12493037.59		A	0.8
2	☐	1.000		12740289.81		A	0.6
3	☐	1.000		12849698.14		A	1.8
4	☐	1.000		12194515.24		A	0.8
5	☐	1.000		12083629.12		A	0.9
6	☐	1.000		12174599.68		A	0.8
7	☐	1.000		11959945.79		A	2.9
8	☐	1.000		11856955.24		A	0.6

89 Y (ISTD) [He]

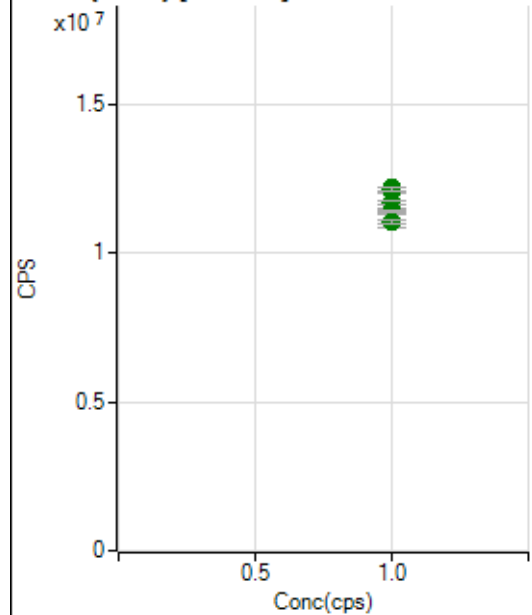
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2805802.42		A	0.8
2	☐	1.000		2809758.33		A	0.3
3	☐	1.000		2763726.94		A	1.7
4	☐	1.000		2692400.27		A	0.9
5	☐	1.000		2648585.90		A	0.8
6	☐	1.000		2637538.57		A	8.0
7	☐	1.000		2700284.96		A	0.4
8	☐	1.000		2662937.05		A	0.1

103 Rh (ISTD) [No Gas]

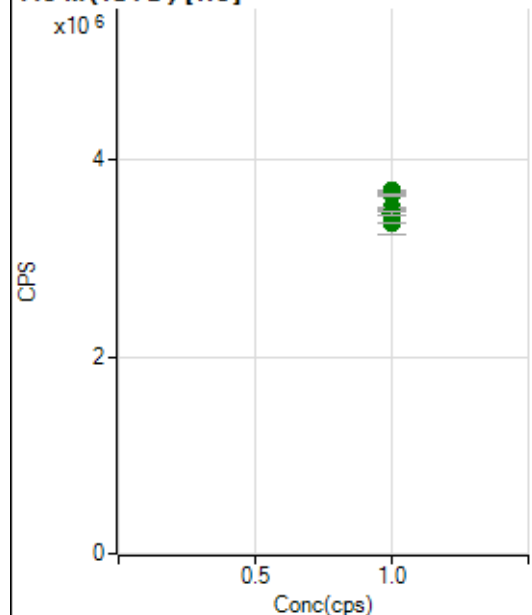
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		11175252.33		A	0.8
2	☐	1.000		11356199.97		A	0.9
3	☐	1.000		11167556.22		A	1.2
4	☐	1.000		10684302.48		A	0.3
5	☐	1.000		10411360.75		A	0.4
6	☐	1.000		10297318.32		A	1.5
7	☐	1.000		9935698.25		A	3.3
8	☐	1.000		9231108.68		A	0.2

103 Rh (ISTD) [He]

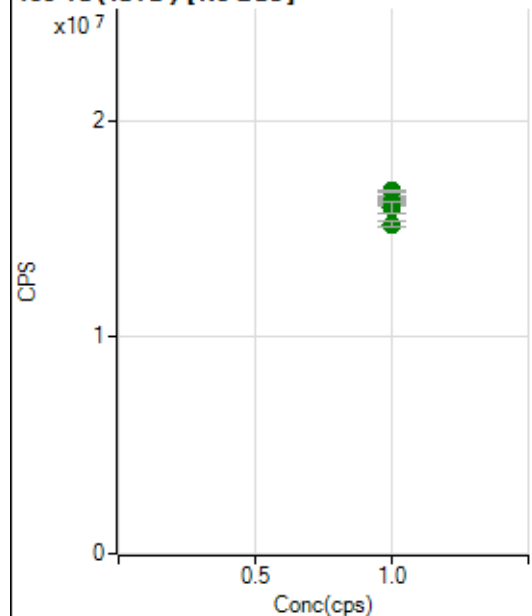
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		6203104.77		A	0.2
2	☐	1.000		6228264.49		A	0.8
3	☐	1.000		6116151.85		A	1.4
4	☐	1.000		5850836.37		A	0.6
5	☐	1.000		5742823.53		A	0.2
6	☐	1.000		5628769.36		A	6.7
7	☐	1.000		5642109.29		A	1.1
8	☐	1.000		5142041.77		A	0.2

115 In (ISTD) [No Gas]

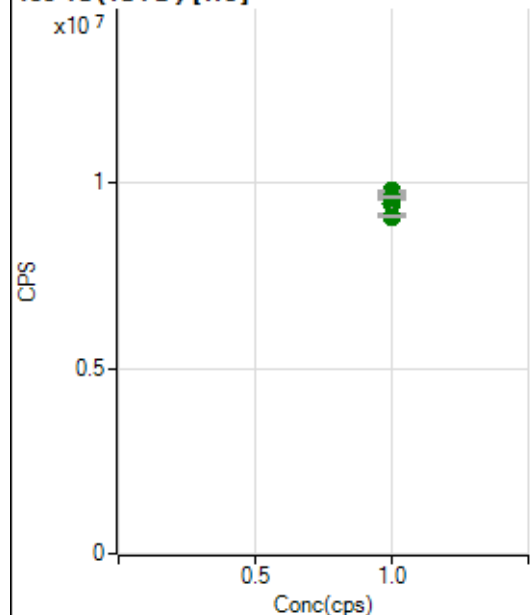
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		12076215.30		A	0.4
2	☐	1.000		12208828.18		A	0.0
3	☐	1.000		12177008.11		A	0.8
4	☐	1.000		11708470.02		A	1.1
5	☐	1.000		11471570.07		A	0.9
6	☐	1.000		11425649.13		A	1.0
7	☐	1.000		11080128.78		A	4.1
8	☐	1.000		11063588.04		A	0.6

115 In (ISTD) [He]

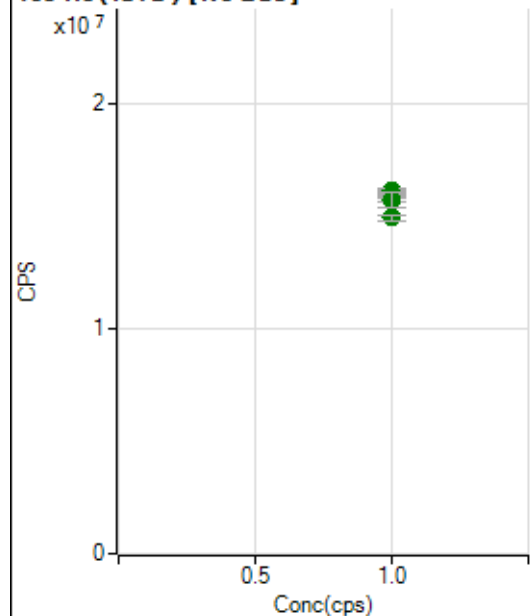
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		3671310.26		A	0.8
2	☐	1.000		3683485.18		A	0.7
3	☐	1.000		3643507.85		A	0.9
4	☐	1.000		3505167.98		A	0.2
5	☐	1.000		3455024.82		A	0.7
6	☐	1.000		3360718.57		A	6.6
7	☐	1.000		3360411.51		A	0.3
8	☐	1.000		3455634.94		A	0.9

159 Tb (ISTD) [No Gas]

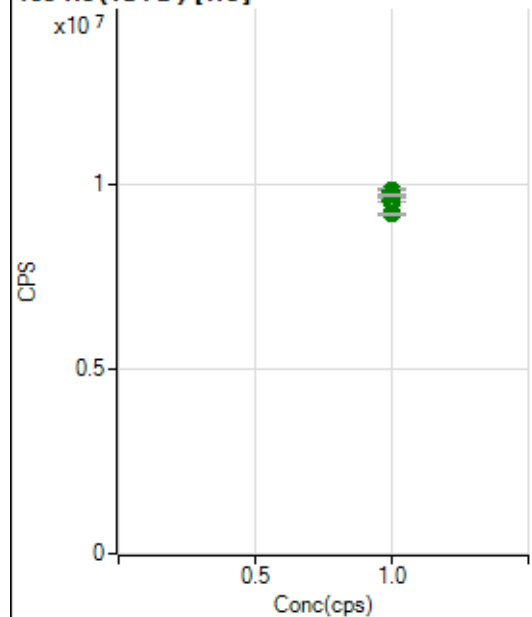
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		16298304.34		A	1.1
2	☐	1.000		16495926.14		A	0.3
3	☐	1.000		16744808.78		A	0.7
4	☐	1.000		16202935.87		A	0.3
5	☐	1.000		16285798.65		A	0.2
6	☐	1.000		16122814.76		A	0.5
7	☐	1.000		15957151.15		A	3.5
8	☐	1.000		15210508.94		A	1.5

159 Tb (ISTD) [He]

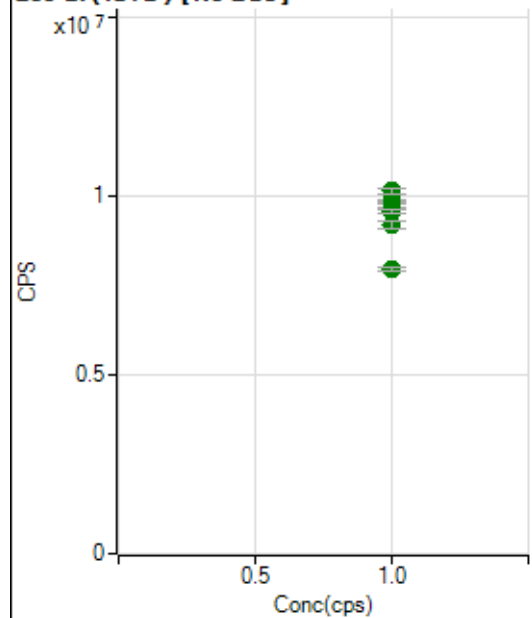
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		9696411.31		A	0.8
2	☐	1.000		9770574.23		A	0.2
3	☐	1.000		9776075.83		A	0.5
4	☐	1.000		9629865.76		A	0.9
5	☐	1.000		9575061.80		A	1.1
6	☐	1.000		9451152.50		A	6.2
7	☐	1.000		9604642.01		A	0.8
8	☐	1.000		9085683.13		A	0.4

165 Ho (ISTD) [No Gas]

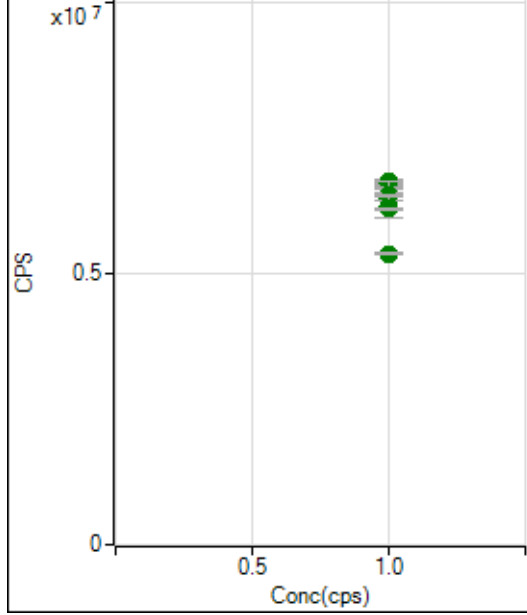
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		15857975.74		A	0.5
2	☐	1.000		16095125.87		A	0.7
3	☐	1.000		16140031.84		A	1.9
4	☐	1.000		15822493.10		A	1.9
5	☐	1.000		15875640.59		A	0.4
6	☐	1.000		15975594.48		A	0.4
7	☐	1.000		15742949.49		A	4.2
8	☐	1.000		14943860.33		A	1.5

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		9767404.37		A	0.8
2	☐	1.000		9800389.78		A	1.5
3	☐	1.000		9803458.95		A	1.3
4	☐	1.000		9641239.16		A	1.0
5	☐	1.000		9546349.93		A	1.2
6	☐	1.000		9534327.64		A	7.0
7	☐	1.000		9699216.18		A	0.6
8	☐	1.000		9178967.78		A	0.9

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		9836798.67		A	1.0
2	☐	1.000		9867468.46		A	0.3
3	☐	1.000		10129998.11		A	1.4
4	☐	1.000		9785025.20		A	0.1
5	☐	1.000		9659522.01		A	0.4
6	☐	1.000		9549426.38		A	1.4
7	☐	1.000		9169434.10		A	2.5
8	☐	1.000		7956670.23		A	1.5

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6613505.53		A	1.6
2	☐	1.000		6698238.10		A	1.8
3	☐	1.000		6663600.04		A	1.6
4	☐	1.000		6472289.07		A	1.0
5	☐	1.000		6400168.52		A	1.0
6	☐	1.000		6257363.52		A	6.8
7	☐	1.000		6204903.45		A	0.4
8	☐	1.000		5372700.89		A	0.2

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7040524 MS.b

Acq. Date-Time 2024-04-05 09:25:55

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		22737	227365.13			0.452	5.000
24		139520	1395200.38			0.348	5.000
25		18626	186262.78			1.580	5.000
26		21877	218772.23			0.377	5.000
59		167745	1677446.14			0.637	5.000
113		20852	208522.66			0.718	5.000
115		261014	2610144.26			1.157	5.000
206		56790	567904.71			0.718	5.000
207		52021	520213.30			0.624	5.000
208		135129	1351288.13			0.942	5.000
220		0	3.60			38.540	

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

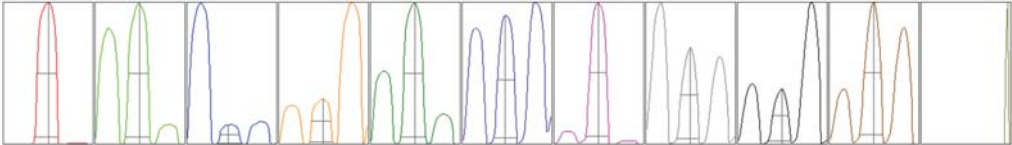
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	22668	22796	22877	22725	22617
24	139393	139199	139694	139041	140272
25	19138	18412	18469	18598	18514
26	21772	21812	21899	21967	21936
59	166349	168316	167236	167651	169170
113	20996	20796	20936	20915	20618
115	265565	262279	258750	260415	258064
206	57312	56876	56685	56891	56187
207	52402	52113	51953	52121	51518
208	136454	134876	134922	136153	133239

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	36315.95	9.05	8.90 - 9.10	
24	220330.25	24.00	23.90 - 24.10	
25	29190.41	24.90	24.90 - 25.10	
26	34759.55	26.00	25.90 - 26.10	
59	273075.64	59.00	58.90 - 59.10	
113	38104.93	112.95	112.90 - 113.10	
115	470553.48	115.00	114.90 - 115.10	
206	108580.28	206.00	205.90 - 206.10	
207	98861.18	207.00	206.90 - 207.10	
208	251157.93	208.00	207.90 - 208.10	
220	0.20	220.30	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.65	0.784	0.900	
24	0.67	0.827	0.900	
25	0.64	0.786	0.900	
26	0.65	0.770	0.900	
59	0.64	0.834	0.900	
113	0.56	0.779	0.900	
115	0.56	0.776	0.900	
206	0.54	0.752	0.900	
207	0.53	0.765	0.900	
208	0.55	0.782	0.900	
220	0.69	0.711		

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	8.1 V	Deflect	14.2 V
Extract 2	-160.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-85 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	200 V		

QP Parameters

Mass Gain	133	Axis Gain	0.9970	QP Bias	-3.0 V
Mass Offset	129	Axis Offset	0.17		

Hardware Settings

Torch

Torch H	-0.7 mm	Torch V	0.9 mm
---------	---------	---------	--------

EM

Discriminator	4.9 mV	Analog HV	2303 V	Pulse HV	1350 V
---------------	--------	-----------	--------	----------	--------

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		51678	516779.43			0.652	
89		47173	471727.93			0.911	
205		53516	535159.29			0.977	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	52125	51669	51866	51260	51469
89	47655	47380	47393	46732	46704
205	54083	53699	53804	53236	52757

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	8.3 V	Deflect	2.6 V
-----------	-------	------------	-------	---------	-------

US EPA Tune Check Report

Extract 2	-150.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-85 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	133	Axis Gain	0.9970	QP Bias	-13.0 V
Mass Offset	129	Axis Offset	0.17		
Hardware Settings					
Torch					
Torch H	-0.7 mm	Torch V	0.9 mm		
EM					
Discriminator	4.9 mV	Analog HV	2303 V	Pulse HV	1350 V