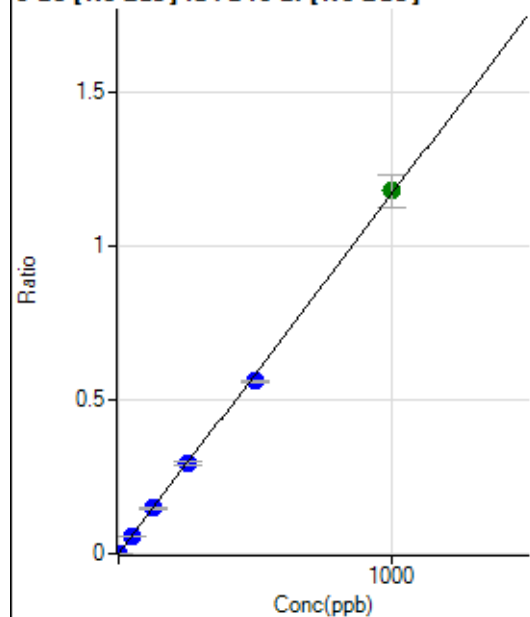


Calibration for 006CALS.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P7110324-MS.b\
 Analysis File: P7110324-MS.batch.bin
 DA Date-Time: 2024-11-03 22:04:10
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2024-11-03 14:49:26
2	006CALS.d	S02	2024-11-03 14:55:59
3	007CALS.d	S03	2024-11-03 14:59:14
4	008CALS.d	S04	2024-11-03 15:02:17
5	009CALS.d	S05	2024-11-03 15:05:09
6	010CALS.d	S06	2024-11-03 15:07:58
7	011CALS.d	S07	2024-11-03 15:10:42
8	012CALS.d	S08	2024-11-03 15:13:27

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	14.82	0.0000	P	58.0
2	☐	1.000	1.064	1572.33	0.0013	P	3.4
3	☐	50.000	49.707	74390.05	0.0581	P	0.3
4	☐	125.000	126.302	186183.74	0.1476	P	1.6
5	☐	250.000	251.506	369352.54	0.2939	P	2.6
6	☐	500.000	480.053	710635.90	0.5610	P	1.5
7	☐	1000.000	1009.449	1372038.43	1.1796	A	9.0
8	☐			262.97	0.0002	P	21.9

$$y = 0.0012 * x + 1.2152E-005$$

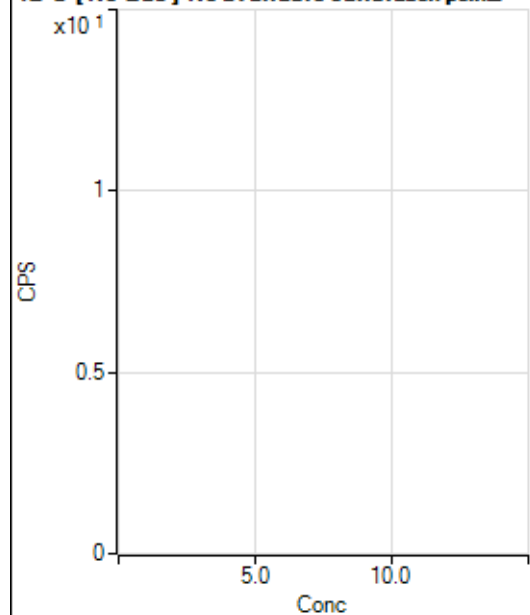
$$R = 0.9997$$

$$DL = 0.01811$$

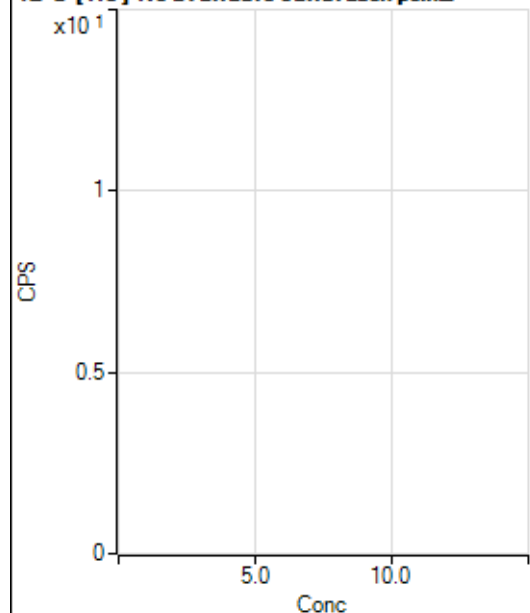
$$BEC = 0.0104$$

Weight: <None>

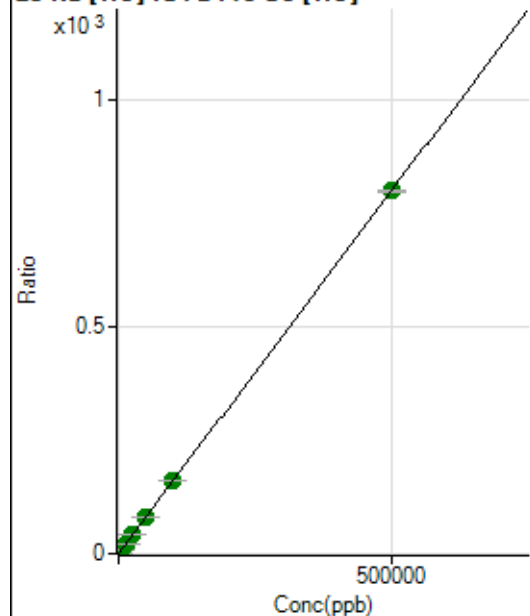
Min Conc: 0

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	15259.86	0.0446	P	0.6
2	☐	500.000	500.665	295251.37	0.8439	P	0.9
3	☐	5000.000	5083.898	2919003.95	8.1610	A	0.8
4	☐	12500.000	12753.863	7255495.24	20.4059	A	1.1
5	☐	25000.000	25370.164	14258092.98	40.5476	A	0.5
6	☐	50000.000	50069.108	28011396.25	79.9790	A	0.7
7	☐	100000.00	100390.89	56979258.60	160.3168	A	0.7
8	☐	500000.00	499889.21	298183448.8	798.1082	A	0.2

$$y = 0.0016 * x + 0.0446$$

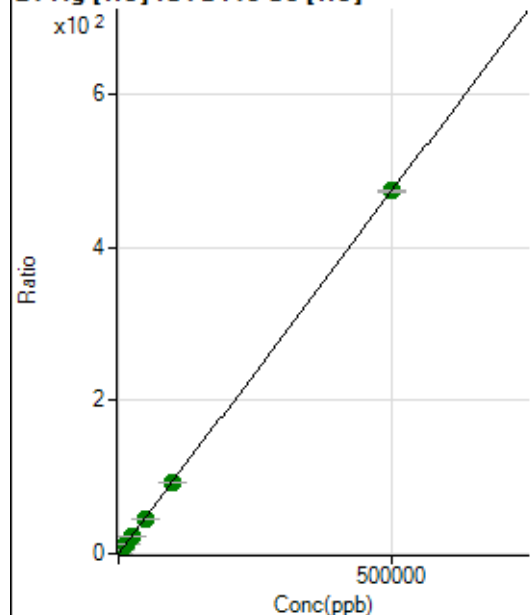
$$R = 1.0000$$

$$DL = 0.5104$$

$$BEC = 27.96$$

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	352.23	0.0010	P	12.6
2	☐	500.000	532.794	176806.38	0.5054	P	0.7
3	☐	5000.000	5018.977	1699732.02	4.7521	A	0.6
4	☐	12500.000	12686.589	4270398.06	12.0103	A	0.7
5	☐	25000.000	25035.584	8333846.13	23.7001	A	0.4
6	☐	50000.000	48882.751	16206563.37	46.2741	A	0.1
7	☐	100000.00	98190.510	33036214.23	92.9495	A	0.4
8	☐	500000.00	500466.95	176996228.4	473.7499	A	0.8

$$y = 9.4661\text{E-}004 * x + 0.0010$$

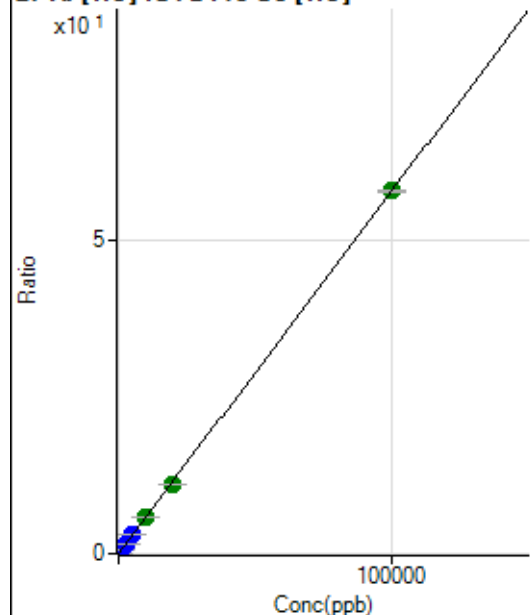
$$R = 1.0000$$

$$DL = 0.4105$$

$$BEC = 1.088$$

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	170.00	0.0005	P	23.7
2	☐	20.000	18.688	3959.44	0.0113	P	2.1
3	☐	1000.000	1022.752	211989.18	0.5927	P	0.1
4	☐	2500.000	2550.164	525198.13	1.4771	P	0.9
5	☐	5000.000	5103.611	1039284.72	2.9555	P	0.2
6	☐	10000.000	9882.100	2004156.52	5.7223	A	0.9
7	☐	20000.000	19259.991	3963709.49	11.1523	A	0.7
8	☐	100000.00	100153.13	21665951.76	57.9903	A	0.2

$$y = 5.7901\text{E-}004 * x + 4.9734\text{E-}004$$

$$R = 1.0000$$

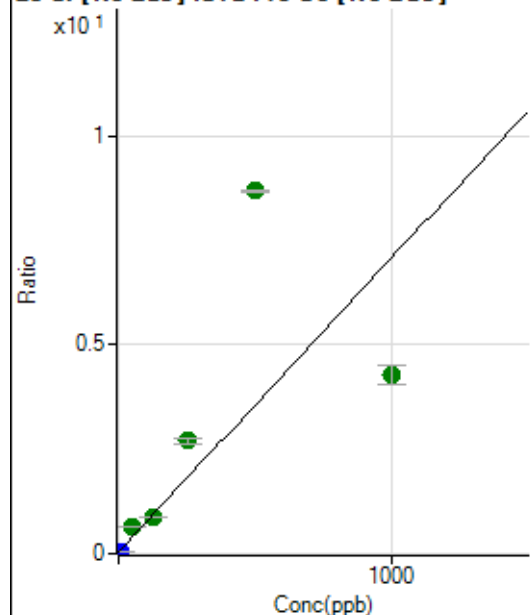
$$DL = 0.6111$$

$$BEC = 0.8589$$

Weight: <None>

Min Conc: 0

28 Si [No Gas] ISTD : 45 Sc [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	167463.42	0.0442	P	2.7
2	☐	10.000	0.770	189644.99	0.0496	P	0.8
3	☐	50.000	84.094	2504469.48	0.6364	A	0.1
4	☐	125.000	119.212	3518021.51	0.8837	A	1.2
5	☐	250.000	377.284	10551695.75	2.7011	A	4.1
6	☐	500.000	1226.758	34036431.72	8.6831	A	0.7
7	☐	1000.000	603.911	15361227.96	4.2970	A	10.8
8	☐			252171.17	0.0622	P	3.6

$$y = 0.0070 * x + 0.0442$$

$$R = 0.6788$$

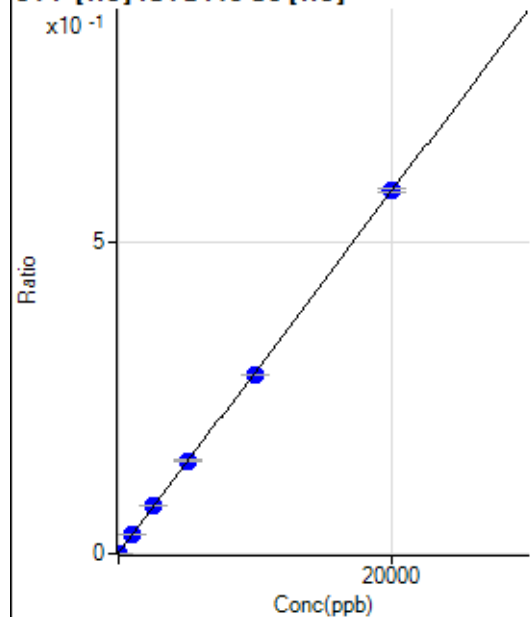
$$DL = 0.5028$$

$$BEC = 6.278$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-14.696	141.11	0.0004	P	11.5
2	☐	0.000	14.696	443.35	0.0013	P	10.9
3	☐	1000.000	1023.624	10939.54	0.0306	P	3.3
4	☐	2500.000	2605.241	27214.27	0.0765	P	0.6
5	☐	5000.000	5122.844	52636.80	0.1497	P	0.3
6	☐	10000.000	9875.740	100791.07	0.2878	P	0.6
7	☐	20000.000	20017.083	207012.95	0.5825	P	1.0
8	☐			256.67	0.0007	P	5.5

$$y = 2.9056E-005 * x + 8.3980E-004$$

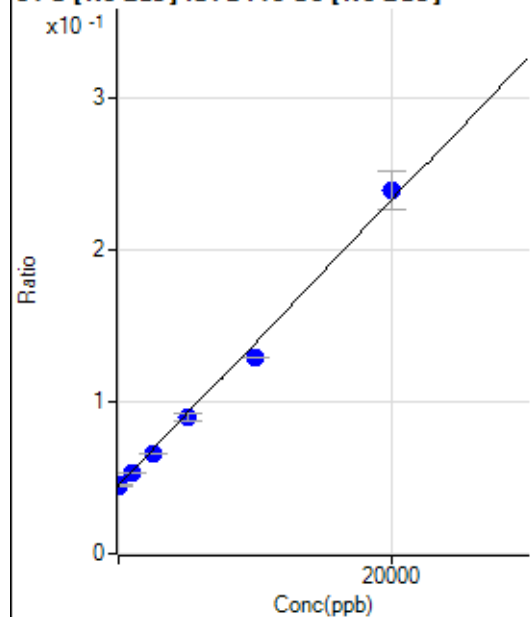
$$R = 0.9999$$

$$DL = 9.616$$

$$BEC = 28.9$$

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	-12.953	169432.65	0.0447	P	2.5
2	☐	0.000	12.953	171844.47	0.0450	P	0.6
3	☐	1000.000	882.755	209088.17	0.0531	P	0.5
4	☐	2500.000	2243.690	262341.64	0.0659	P	0.7
5	☐	5000.000	4737.752	348730.37	0.0893	P	5.2
6	☐	10000.000	8955.658	505191.11	0.1289	P	0.5
7	☐	20000.000	20625.634	852276.50	0.2384	P	10.6
8	☐			155837.48	0.0384	P	1.5

$$y = 9.3831\text{E-}006 * x + 0.0448$$

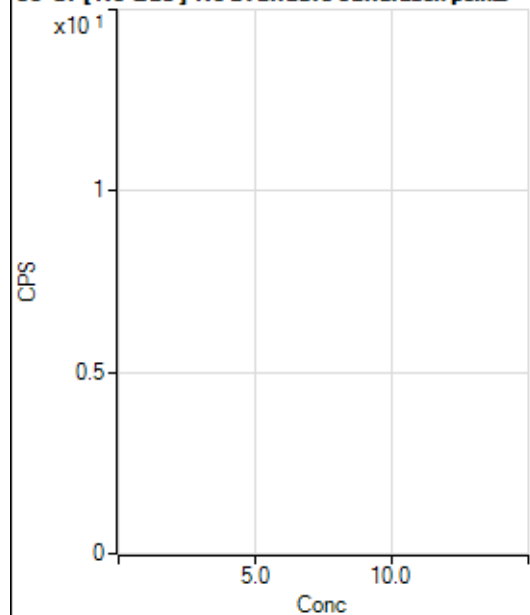
$$R = 0.9979$$

$$DL = 221.6$$

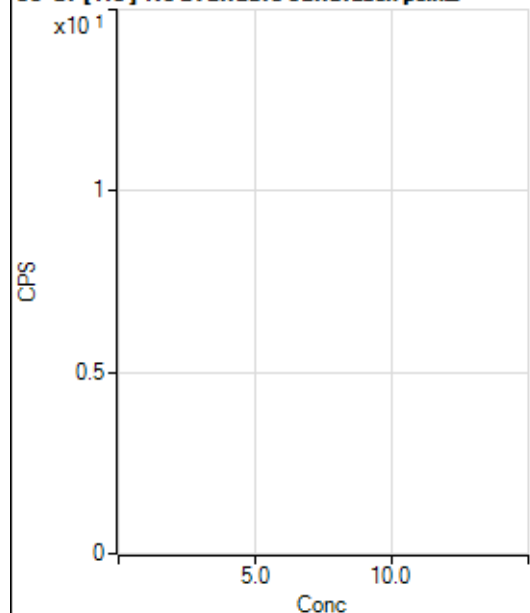
$$BEC = 4780$$

Weight: <None>

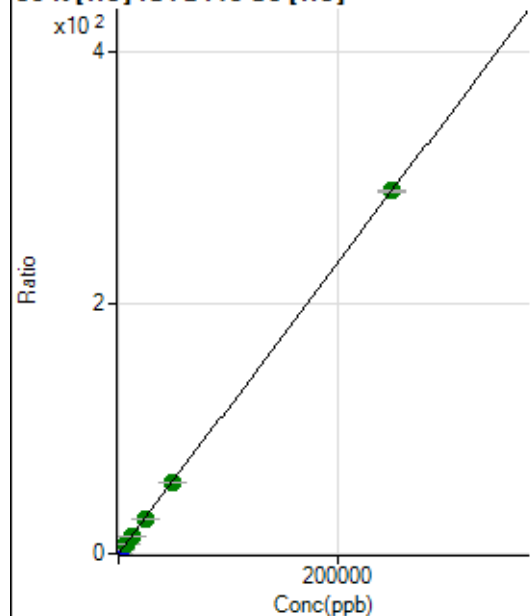
Min Conc: 0

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	38246.90	0.1119	P	1.0
2	☐	500.000	506.471	244173.46	0.6979	P	0.7
3	☐	2500.000	2665.321	1143104.11	3.1959	P	0.1
4	☐	6250.000	6311.898	2636634.44	7.4153	A	0.8
5	☐	12500.000	12448.807	5104326.87	14.5163	A	0.8
6	☐	25000.000	24297.173	9885423.05	28.2259	A	1.1
7	☐	50000.000	49048.874	20211064.14	56.8658	A	0.7
8	☐	250000.00	250259.85	108230066.1	289.6847	A	0.2

$$y = 0.0012 * x + 0.1119$$

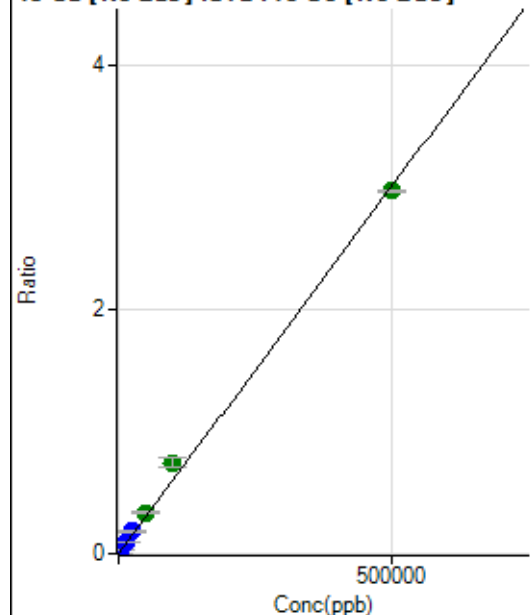
$$R = 1.0000$$

$$DL = 2.776$$

$$BEC = 96.7$$

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	214.45	0.0001	P	13.4
2	☐	500.000	513.778	12021.49	0.0031	P	2.4
3	☐	5000.000	6028.143	142860.11	0.0363	P	1.0
4	☐	12500.000	15083.669	361269.55	0.0907	P	1.1
5	☐	25000.000	30340.651	712718.38	0.1825	P	4.7
6	☐	50000.000	55987.492	1319719.30	0.3367	A	1.3
7	☐	100000.00	124303.24	2671134.93	0.7474	A	11.3
8	☐	500000.00	494198.68	12058195.24	2.9715	A	0.5

$$y = 6.0126\text{E-}006 * x + 5.6678\text{E-}005$$

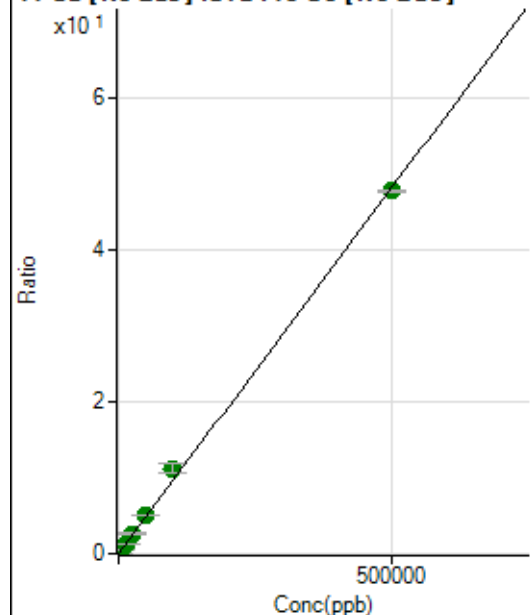
$$R = 0.9987$$

$$DL = 3.783$$

$$BEC = 9.427$$

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	7887.96	0.0021	P	2.9
2	☐	500.000	526.880	201317.82	0.0527	P	1.5
3	☐	5000.000	5434.118	2062000.70	0.5240	A	0.1
4	☐	12500.000	13504.215	5171186.48	1.2990	A	0.9
5	☐	25000.000	27242.553	10224997.42	2.6184	A	5.2
6	☐	50000.000	52619.746	19816780.54	5.0556	A	1.1
7	☐	100000.00	116521.38	40010573.01	11.1926	A	10.8
8	☐	500000.00	496292.14	193427061.5	47.6651	A	0.4

$$y = 9.6038\text{E-}005 * x + 0.0021$$

$$R = 0.9994$$

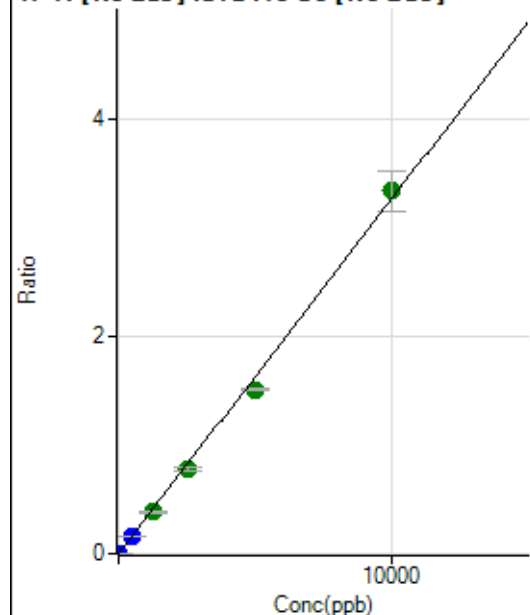
$$DL = 1.858$$

$$BEC = 21.68$$

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	81.11	0.0000	P	6.9
2	☐	5.000	4.299	5444.35	0.0014	P	3.1
3	☐	500.000	484.175	622053.33	0.1581	P	0.7
4	☐	1250.000	1175.609	1527649.99	0.3838	A	1.8
5	☐	2500.000	2369.620	3020976.52	0.7735	A	4.8
6	☐	5000.000	4616.562	5906969.70	1.5070	A	1.1
7	☐	10000.000	10234.405	11942353.43	3.3407	A	10.8
8	☐			2092.40	0.0005	P	12.6

$$y = 3.2642\text{E-}004 * x + 2.1388\text{E-}005$$

$$R = 0.9988$$

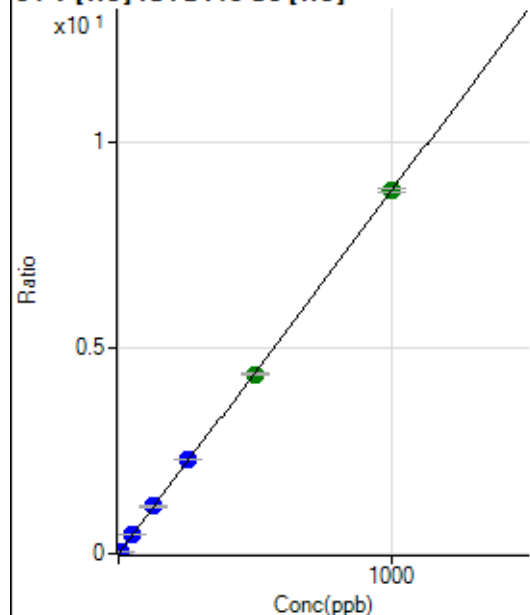
$$DL = 0.01363$$

$$BEC = 0.06552$$

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	8.89	0.0000	P	43.6
2	☐	5.000	4.973	15353.44	0.0439	P	1.8
3	☐	50.000	51.453	162332.41	0.4539	P	0.5
4	☐	125.000	130.076	407941.29	1.1473	P	0.7
5	☐	250.000	258.815	802737.82	2.2829	P	0.4
6	☐	500.000	494.616	1527950.62	4.3627	A	0.4
7	☐	1000.000	999.781	3134194.67	8.8184	A	1.1
8	☐			865.59	0.0023	P	8.3

$$y = 0.0088 * x + 2.6031\text{E-}005$$

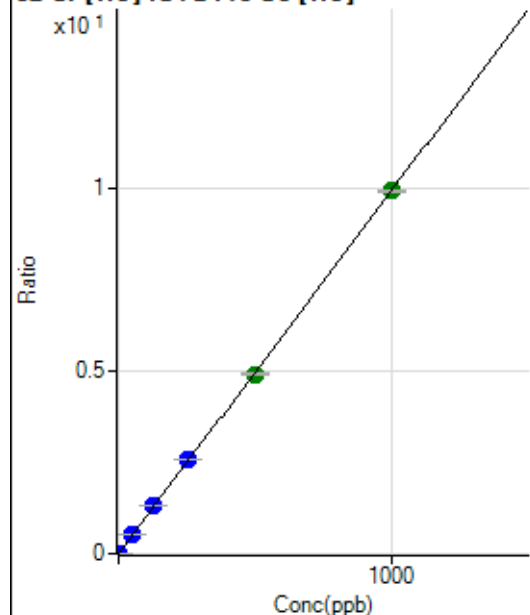
$$R = 0.9999$$

$$DL = 0.003859$$

$$BEC = 0.002951$$

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	498.90	0.0015	P	10.4
2	☐	2.000	1.989	7431.88	0.0212	P	2.1
3	☐	50.000	52.002	185501.45	0.5186	P	0.6
4	☐	125.000	129.989	460186.11	1.2942	P	0.2
5	☐	250.000	259.050	906460.41	2.5778	P	0.2
6	☐	500.000	494.732	1723774.66	4.9218	A	0.8
7	☐	1000.000	999.648	3534114.70	9.9434	A	0.4
8	☐			11948.34	0.0320	P	1.6

$$y = 0.0099 * x + 0.0015$$

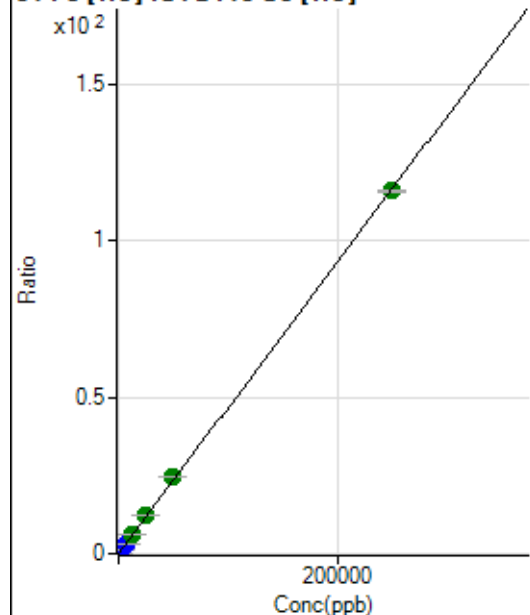
$$R = 0.9999$$

$$DL = 0.04577$$

$$BEC = 0.1468$$

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	1801.24	0.0053	P	5.8
2	☐	50.000	60.546	11687.94	0.0334	P	1.7
3	☐	2500.000	2816.538	470103.44	1.3143	P	0.4
4	☐	6250.000	7107.633	1176466.45	3.3087	P	0.9
5	☐	12500.000	13574.245	2220372.80	6.3143	A	0.1
6	☐	25000.000	26379.468	4295968.58	12.2659	A	1.5
7	☐	50000.000	52721.961	8710999.17	24.5093	A	0.9
8	☐	250000.00	249239.34	43281400.47	115.8463	A	0.5

$$y = 4.6478E-004 * x + 0.0053$$

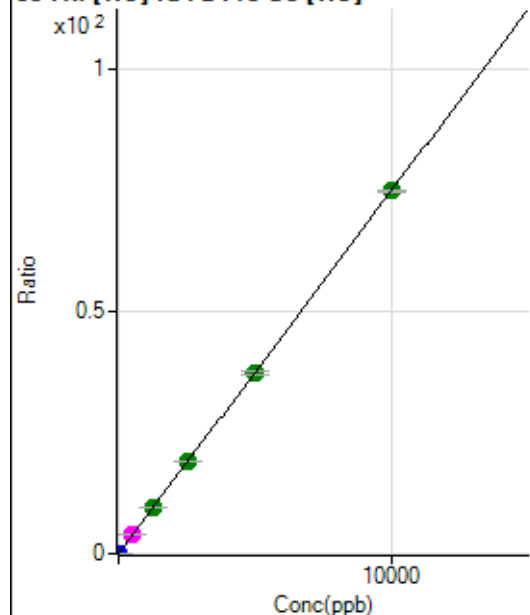
$$R = 0.9999$$

$$DL = 1.977$$

$$BEC = 11.34$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	532.24	0.0016	P	13.1
2	☐	1.000	0.987	3137.02	0.0090	P	2.1
3	☐	500.000	511.810	1374312.83	3.8424	M	1.0
4	☐	1250.000	1288.007	3437467.45	9.6674	A	0.6
5	☐	2500.000	2553.591	6739005.53	19.1650	A	0.7
6	☐	5000.000	4978.245	13085199.94	37.3609	A	1.3
7	☐	10000.000	9992.138	26652095.16	74.9877	A	0.6
8	☐			14964.17	0.0401	P	1.1

$$y = 0.0075 * x + 0.0016$$

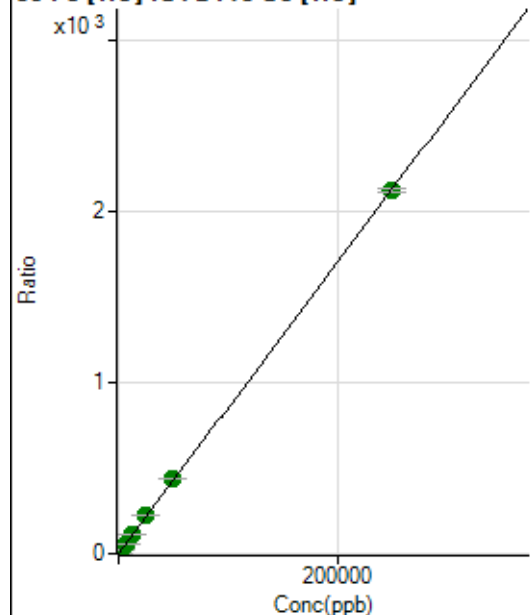
$$R = 1.0000$$

$$DL = 0.08128$$

$$BEC = 0.2075$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	18780.69	0.0549	P	1.2
2	☐	50.000	59.669	196848.62	0.5627	P	0.5
3	☐	2500.000	2666.397	8134615.37	22.7430	A	0.3
4	☐	6250.000	6739.197	20408301.36	57.3979	A	0.6
5	☐	12500.000	13305.434	39829232.18	113.2692	A	0.5
6	☐	25000.000	26139.218	77916816.62	222.4702	A	0.9
7	☐	50000.000	51961.383	157164223.2	442.1877	A	0.5
8	☐	250000.00	249439.63	792980859.3	2.122505	A	0.9

$$y = 0.0085 * x + 0.0549$$

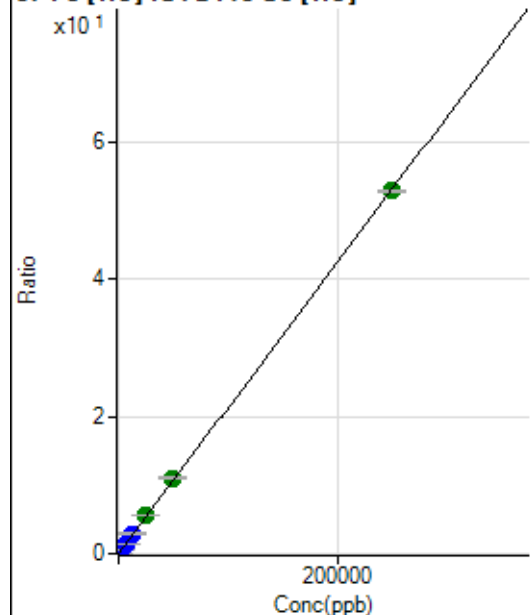
$$R = 1.0000$$

$$DL = 0.2418$$

$$BEC = 6.457$$

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	1275.62	0.0037	P	4.2
2	☐	50.000	60.426	5793.39	0.0166	P	2.7
3	☐	2500.000	2756.744	210649.29	0.5889	P	0.6
4	☐	6250.000	6971.599	527534.80	1.4837	P	1.1
5	☐	12500.000	13825.356	1033323.17	2.9387	P	0.6
6	☐	25000.000	26043.676	1937614.45	5.5324	A	0.2
7	☐	50000.000	51918.617	3918797.86	11.0253	A	1.1
8	☐	250000.00	249425.03	19783910.96	52.9531	A	0.4

$$y = 2.1229\text{E-}004 * x + 0.0037$$

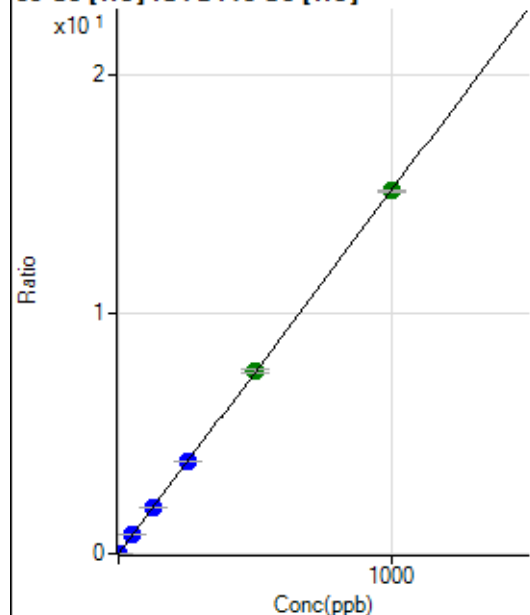
$$R = 1.0000$$

$$DL = 2.239$$

$$BEC = 17.58$$

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	151.12	0.0004	P	8.9
2	☐	1.000	1.032	5632.22	0.0161	P	2.8
3	☐	50.000	50.740	275435.99	0.7701	P	0.0
4	☐	125.000	128.530	693332.52	1.9500	P	0.6
5	☐	250.000	253.136	1350312.93	3.8400	P	0.3
6	☐	500.000	500.829	2660677.32	7.5970	A	1.9
7	☐	1000.000	998.323	5382099.29	15.1430	A	0.7
8	☐			15046.53	0.0403	P	1.5

$$y = 0.0152 * x + 4.4210\text{E-}004$$

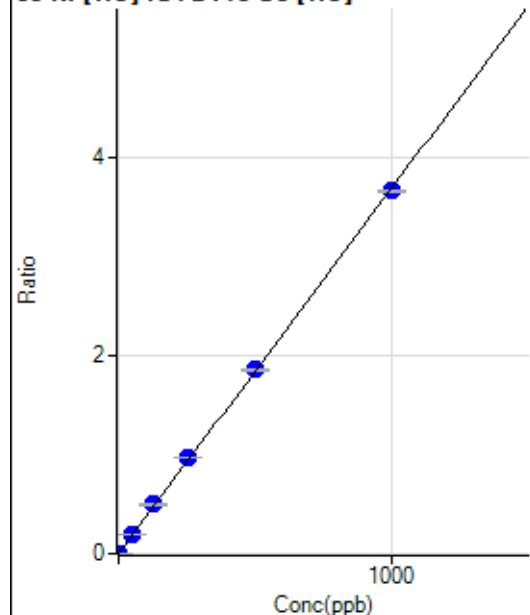
$$R = 1.0000$$

$$DL = 0.007767$$

$$BEC = 0.02915$$

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	105.56	0.0003	P	12.9
2	☐	1.000	1.053	1470.09	0.0042	P	3.0
3	☐	50.000	53.599	70964.48	0.1984	P	0.8
4	☐	125.000	134.281	176565.46	0.4966	P	0.5
5	☐	250.000	263.576	342647.79	0.9744	P	0.6
6	☐	500.000	503.811	652217.44	1.8623	P	1.0
7	☐	1000.000	993.360	1304964.94	3.6716	P	0.2
8	☐			5264.30	0.0141	P	2.8

$$y = 0.0037 * x + 3.0874E-004$$

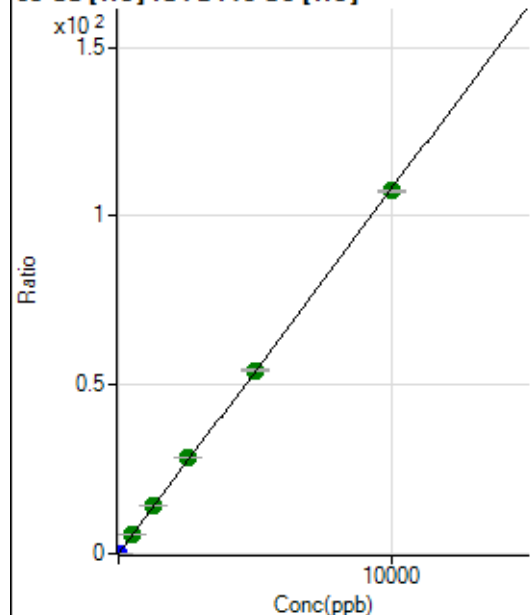
$$R = 0.9999$$

$$DL = 0.03233$$

$$BEC = 0.08354$$

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	795.59	0.0023	P	11.8
2	☐	2.000	1.860	7846.59	0.0224	P	1.7
3	☐	500.000	529.976	2049101.98	5.7290	A	0.9
4	☐	1250.000	1326.794	5098448.19	14.3391	A	0.4
5	☐	2500.000	2612.563	9927718.67	28.2327	A	0.1
6	☐	5000.000	5031.088	19040290.69	54.3663	A	1.0
7	☐	10000.000	9945.217	38196039.43	107.4664	A	0.3
8	☐			10099.02	0.0270	P	2.7

$$y = 0.0108 * x + 0.0023$$

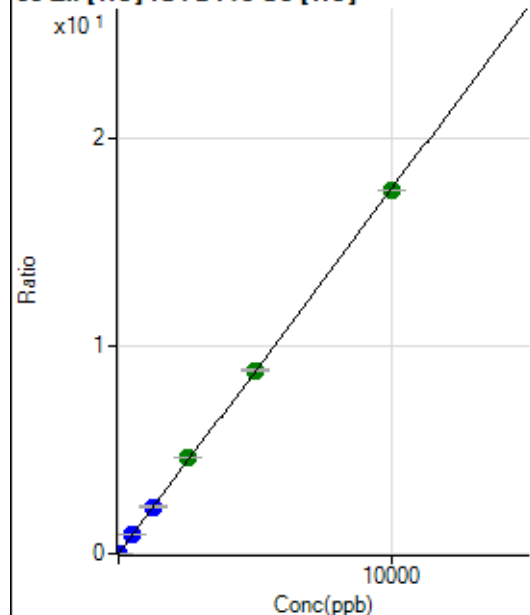
$$R = 0.9999$$

$$DL = 0.07647$$

$$BEC = 0.2154$$

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	478.90	0.0014	P	5.3
2	☐	2.000	5.032	3582.69	0.0102	P	5.1
3	☐	500.000	513.289	323054.57	0.9032	P	0.3
4	☐	1250.000	1288.911	805664.70	2.2659	P	0.6
5	☐	2500.000	2627.188	1623552.72	4.6172	A	0.5
6	☐	5000.000	5030.308	3095704.92	8.8393	A	1.1
7	☐	10000.000	9947.520	6212306.99	17.4784	A	0.1
8	☐			3532.67	0.0095	P	2.3

$$y = 0.0018 * x + 0.0014$$

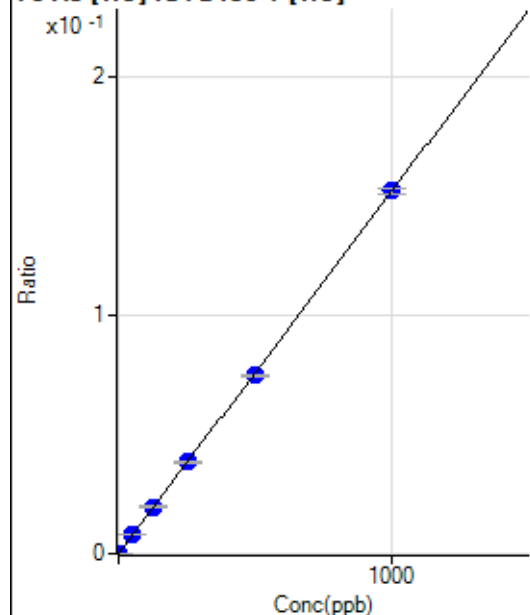
$$R = 0.9999$$

$$DL = 0.1275$$

$$BEC = 0.7975$$

Weight: <None>

Min Conc: 0

75 As [He] ISTD:89 Y [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	3.33	0.0000	P	0.7
2	☐	1.000	1.142	494.46	0.0002	P	5.3
3	☐	50.000	50.685	22237.82	0.0077	P	0.4
4	☐	125.000	129.665	56057.47	0.0197	P	1.9
5	☐	250.000	253.566	110394.14	0.0386	P	1.5
6	☐	500.000	493.474	211915.99	0.0751	P	1.1
7	☐	1000.000	1001.754	434287.60	0.1524	P	1.3
8	☐			312.23	0.0001	P	14.3

$$y = 1.5218E-004 * x + 1.1964E-006$$

$$R = 1.0000$$

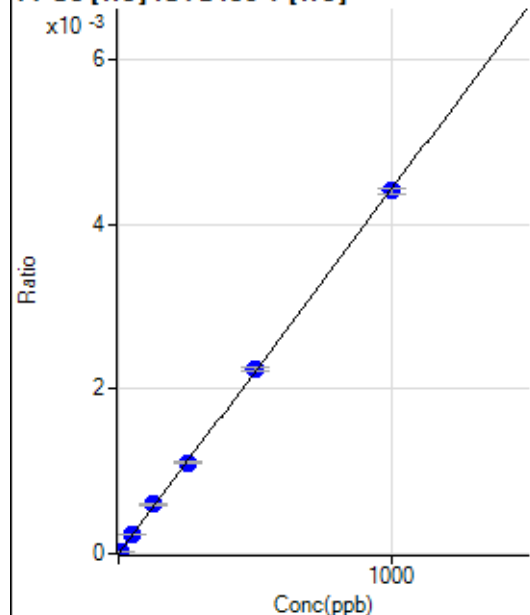
$$DL = 0.0001601$$

$$BEC = 0.007862$$

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	4.709	58.89	0.0000	P	21.2
3	☐	50.000	53.321	681.13	0.0002	P	7.5
4	☐	125.000	135.895	1711.23	0.0006	P	2.5
5	☐	250.000	250.357	3174.81	0.0011	P	1.8
6	☐	500.000	506.166	6330.28	0.0022	P	2.1
7	☐	1000.000	995.301	12566.51	0.0044	P	1.6
8	☐			3.33	0.0000	P	99.5

$$y = 4.4322\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9999$$

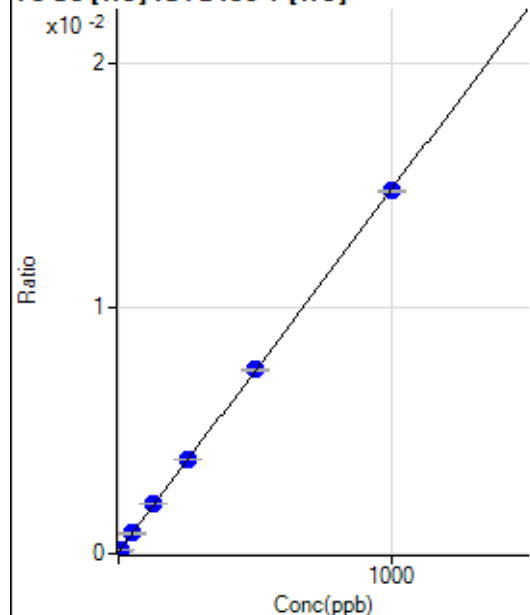
$$DL = 0$$

$$BEC = 0$$

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	194.45	0.0001	P	15.7
2	☐	5.000	5.109	410.01	0.0001	P	12.6
3	☐	50.000	51.629	2396.88	0.0008	P	5.0
4	☐	125.000	132.922	5770.06	0.0020	P	1.5
5	☐	250.000	256.117	11010.83	0.0038	P	1.2
6	☐	500.000	502.364	21115.17	0.0075	P	1.7
7	☐	1000.000	996.216	42076.27	0.0148	P	0.2
8	☐			250.01	0.0001	P	5.7

$$y = 1.4755\text{E-}005 * x + 6.9839\text{E-}005$$

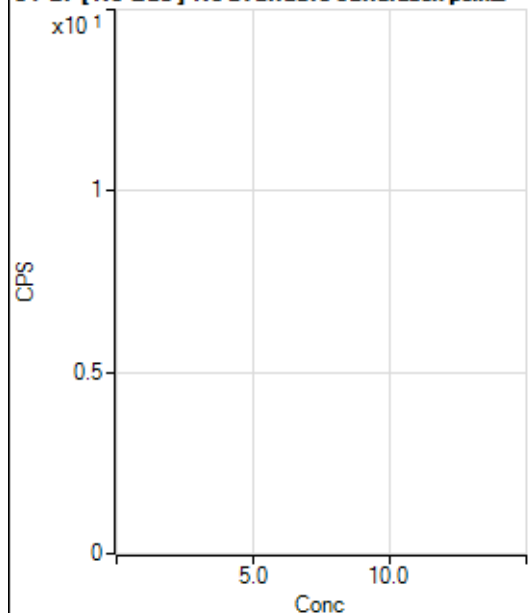
$$R = 1.0000$$

$$DL = 2.229$$

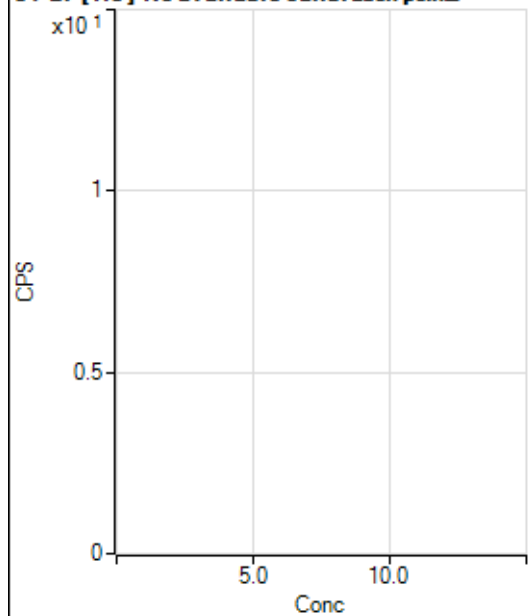
$$BEC = 4.733$$

Weight: <None>

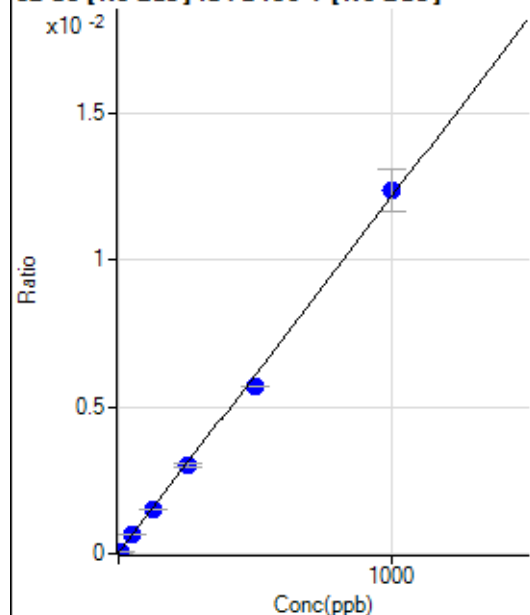
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8028.92		P	4.4
2	☐			8229.03		P	0.4
3	☐			8531.42		P	2.4
4	☐			8703.75		P	0.2
5	☐			8627.02		P	1.4
6	☐			8621.48		P	2.2
7	☐			8444.72		P	2.0
8	☐			9356.36		P	4.6

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			41.11		P	49.5
2	☐			52.22		P	13.3
3	☐			46.67		P	14.3
4	☐			40.00		P	16.7
5	☐			35.56		P	14.3
6	☐			42.22		P	29.9
7	☐			40.00		P	22.0
8	☐			87.78		P	15.3

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	331.45	0.0000	P	17.1
2	☐	5.000	4.652	987.50	0.0001	P	1.1
3	☐	50.000	49.275	7508.10	0.0006	P	0.9
4	☐	125.000	122.997	18323.80	0.0015	P	0.4
5	☐	250.000	247.168	36157.07	0.0030	P	4.2
6	☐	500.000	468.658	68979.03	0.0057	P	0.6
7	☐	1000.000	1016.668	136769.16	0.0123	P	11.5
8	☐			519.65	0.0000	P	8.8

$$y = 1.2104\text{E-}005 * x + 2.9055\text{E-}005$$

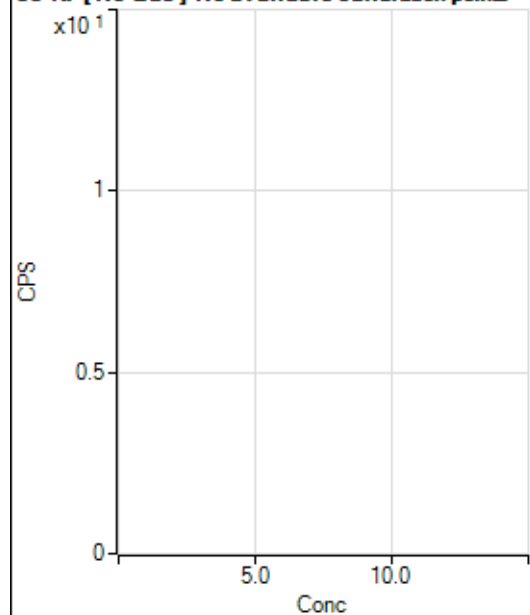
$$R = 0.9993$$

$$DL = 1.234$$

$$BEC = 2.4$$

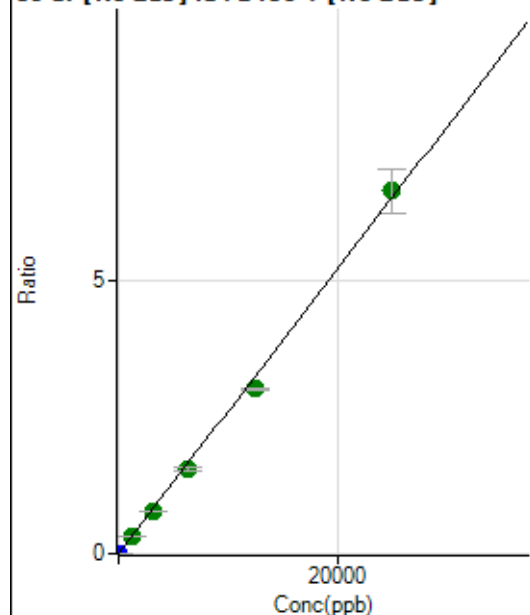
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			175.56		P	12.2
2	☐			183.34		P	9.6
3	☐			184.45		P	27.6
4	☐			184.45		P	15.8
5	☐			192.22		P	17.1
6	☐			184.45		P	27.1
7	☐			200.00		P	13.0
8	☐			232.22		P	16.0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	297.78	0.0000	P	18.9
2	☐	1.000	0.883	2963.66	0.0003	P	2.3
3	☐	1250.000	1191.339	3726929.67	0.3105	A	0.4
4	☐	3125.000	3008.621	9465226.39	0.7840	A	0.6
5	☐	6250.000	6017.256	18767489.58	1.5681	A	4.5
6	☐	12500.000	11578.235	36501219.45	3.0172	A	0.6
7	☐	25000.000	25536.549	73741677.24	6.6545	A	12.4
8	☐			14204.75	0.0012	P	5.3

$$y = 2.6059E-004 * x + 2.6117E-005$$

$$R = 0.9990$$

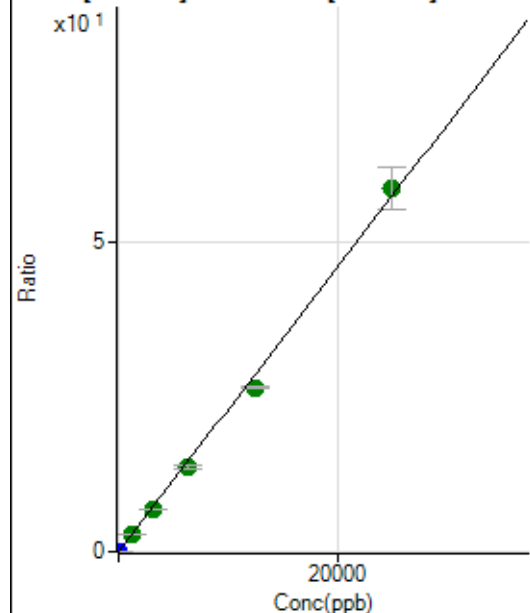
$$DL = 0.05683$$

$$BEC = 0.1002$$

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	228.89	0.0000	P	8.8
2	☐	1.000	0.914	24511.61	0.0021	P	2.0
3	☐	1250.000	1192.637	32880560.07	2.7391	A	0.7
4	☐	3125.000	2985.221	82768434.88	6.8561	A	1.4
5	☐	6250.000	6003.600	165021407.5	13.7884	A	4.6
6	☐	12500.000	11569.014	321450428.5	26.5705	A	1.1
7	☐	25000.000	25547.434	650481132.5	58.6746	A	11.8
8	☐			121176.64	0.0101	P	6.2

$$y = 0.0023 * x + 2.0030E-005$$

$$R = 0.9989$$

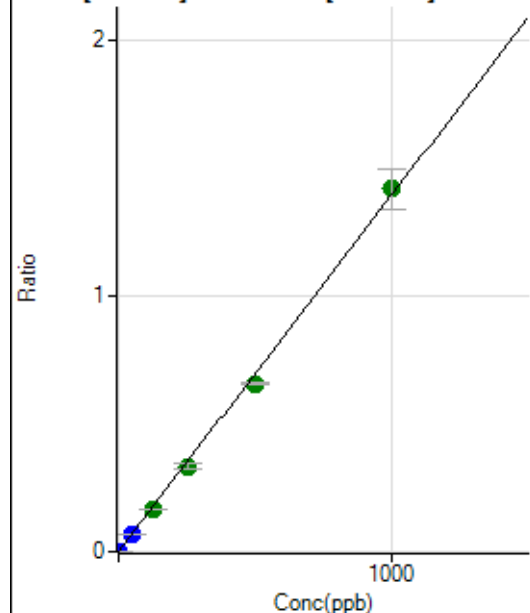
$$DL = 0.002303$$

$$BEC = 0.008721$$

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	375.56	0.0000	P	7.1
2	☐	1.000	0.891	14757.50	0.0013	P	4.2
3	☐	50.000	47.110	788990.72	0.0657	P	1.1
4	☐	125.000	120.506	2029061.13	0.1681	A	0.8
5	☐	250.000	239.969	4004844.90	0.3347	A	4.9
6	☐	500.000	471.000	7946359.40	0.6568	A	0.7
7	☐	1000.000	1017.714	15742942.68	1.4192	A	10.9
8	☐			9327.46	0.0008	P	3.2

$$y = 0.0014 * x + 3.2888E-005$$

$$R = 0.9993$$

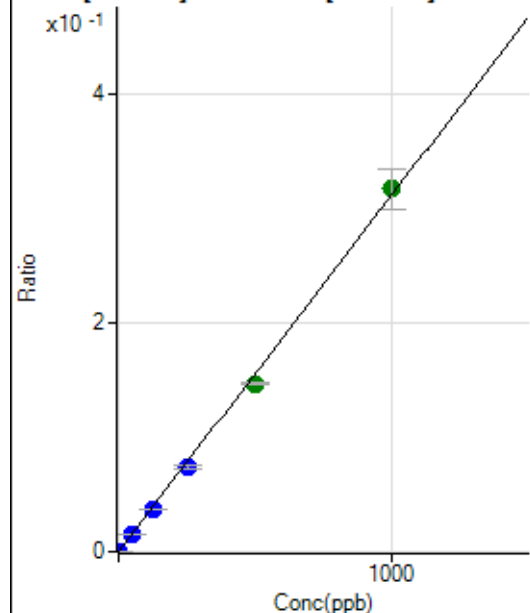
$$DL = 0.004992$$

$$BEC = 0.02358$$

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	102.22	0.0000	P	19.8
2	☐	1.000	0.898	3341.52	0.0003	P	1.0
3	☐	50.000	46.967	175824.52	0.0146	P	1.0
4	☐	125.000	118.037	444236.37	0.0368	P	1.1
5	☐	250.000	238.314	888996.44	0.0743	P	4.7
6	☐	500.000	471.439	1777679.52	0.1469	A	1.1
7	☐	1000.000	1018.224	3519709.70	0.3174	A	11.2
8	☐			2141.29	0.0002	P	4.5

$$y = 3.1167E-004 * x + 8.9411E-006$$

$$R = 0.9993$$

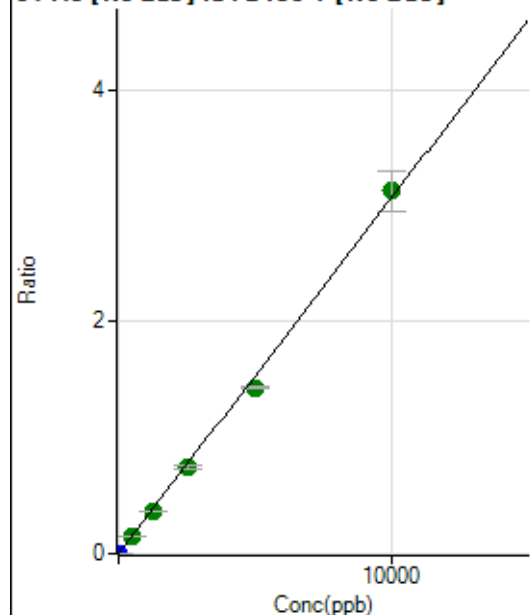
$$DL = 0.01704$$

$$BEC = 0.02869$$

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	151.12	0.0000	P	6.0
2	☐	5.000	4.944	17683.02	0.0015	P	0.9
3	☐	500.000	475.788	1750815.94	0.1458	A	0.4
4	☐	1250.000	1199.877	4440100.73	0.3678	A	1.0
5	☐	2500.000	2410.374	8842411.47	0.7388	A	4.6
6	☐	5000.000	4667.268	17306824.05	1.4306	A	1.2
7	☐	10000.000	10196.248	34670997.54	3.1253	A	10.8
8	☐			9002.85	0.0007	P	2.7

$$y = 3.0651E-004 * x + 1.3243E-005$$

$$R = 0.9992$$

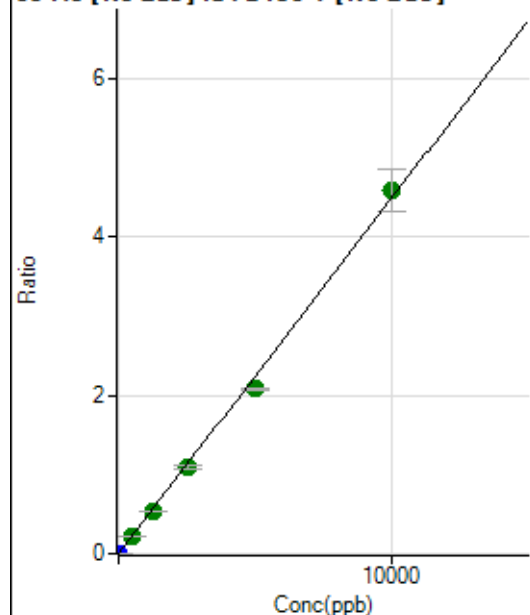
$$DL = 0.007713$$

$$BEC = 0.0432$$

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	26.67	0.0000	P	1.4
2	☐	5.000	4.123	21451.31	0.0019	P	1.3
3	☐	500.000	476.850	2571470.76	0.2142	A	0.6
4	☐	1250.000	1194.038	6475672.47	0.5364	A	0.7
5	☐	2500.000	2415.261	12986151.89	1.0850	A	4.4
6	☐	5000.000	4639.664	25214686.57	2.0843	A	0.9
7	☐	10000.000	10209.506	50850307.02	4.5864	A	11.6
8	☐			8614.83	0.0007	P	10.4

$$y = 4.4923E-004 * x + 2.3362E-006$$

$$R = 0.9990$$

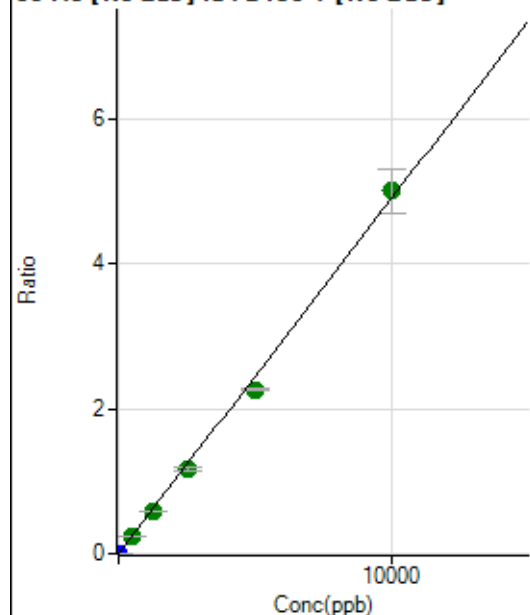
$$DL = 0.0002261$$

$$BEC = 0.0052$$

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	106.67	0.0000	P	17.8
2	☐	5.000	4.228	24046.46	0.0021	P	1.2
3	☐	500.000	477.077	2802983.50	0.2335	A	0.8
4	☐	1250.000	1188.987	7025533.92	0.5819	A	0.6
5	☐	2500.000	2403.159	14075964.93	1.1762	A	4.8
6	☐	5000.000	4630.389	27417137.37	2.2663	A	0.8
7	☐	10000.000	10217.789	55438131.40	5.0009	A	11.9
8	☐			19552.07	0.0016	P	4.3

$$y = 4.8943\text{E-}004 * x + 9.3574\text{E-}006$$

$$R = 0.9990$$

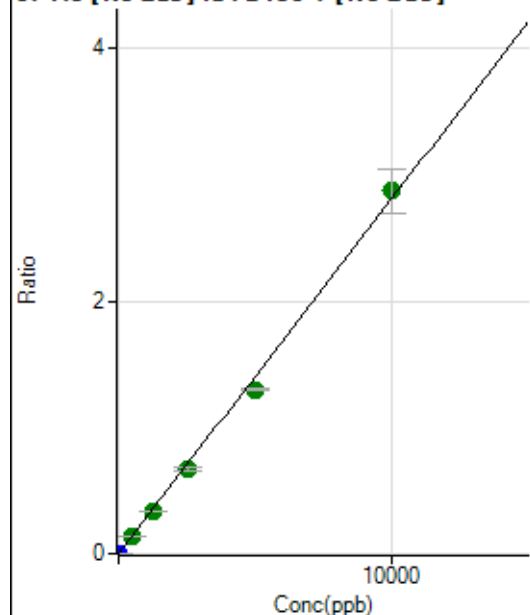
$$DL = 0.01019$$

$$BEC = 0.01912$$

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	20.00	0.0000	P	32.0
2	☐	5.000	4.132	13448.50	0.0012	P	2.0
3	☐	500.000	471.681	1590776.70	0.1325	A	1.5
4	☐	1250.000	1179.713	4001497.16	0.3315	A	0.6
5	☐	2500.000	2386.757	8026211.89	0.6706	A	4.4
6	☐	5000.000	4622.822	15713078.24	1.2988	A	0.8
7	☐	10000.000	10227.102	31844431.47	2.8734	A	12.3
8	☐			5467.75	0.0005	P	8.2

$$y = 2.8096\text{E-}004 * x + 1.7463\text{E-}006$$

$$R = 0.9989$$

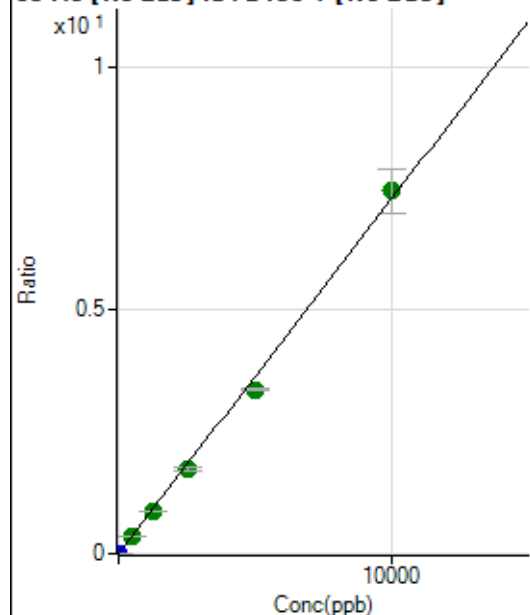
$$DL = 0.005973$$

$$BEC = 0.006215$$

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	40.00	0.0000	P	22.2
2	☐	5.000	4.094	34530.73	0.0030	P	2.0
3	☐	500.000	470.527	4113353.45	0.3427	A	0.9
4	☐	1250.000	1181.231	10385230.68	0.8602	A	0.6
5	☐	2500.000	2397.544	20896203.30	1.7460	A	4.6
6	☐	5000.000	4620.167	40705629.67	3.3647	A	0.9
7	☐	10000.000	10225.600	82548220.43	7.4469	A	11.9
8	☐			13463.00	0.0011	P	7.3

$$y = 7.2826\text{E-}004 * x + 3.5046\text{E-}006$$

$$R = 0.9989$$

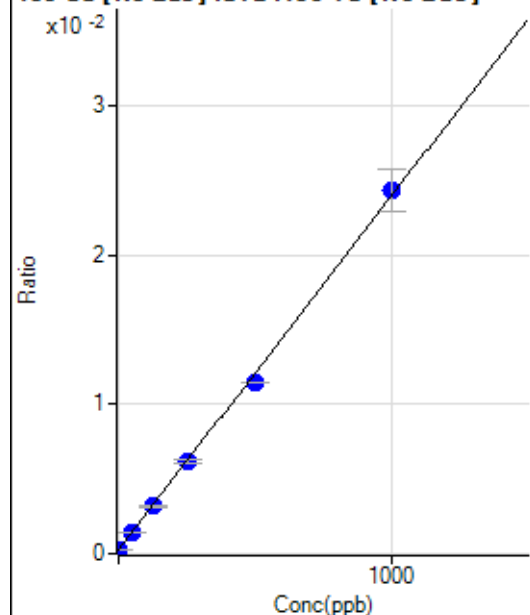
$$DL = 0.003198$$

$$BEC = 0.004812$$

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	2600.26	0.0003	P	3.5
2	☐	1.000	0.716	2888.09	0.0003	P	2.7
3	☐	50.000	49.880	14948.89	0.0015	P	0.7
4	☐	125.000	121.914	33211.28	0.0032	P	0.5
5	☐	250.000	249.245	64255.59	0.0062	P	4.2
6	☐	500.000	472.848	121786.06	0.0115	P	0.9
7	☐	1000.000	1014.157	237884.83	0.0243	P	11.8
8	☐			2729.17	0.0003	P	2.5

$$y = 2.3669\text{E-}005 * x + 2.7038\text{E-}004$$

$$R = 0.9995$$

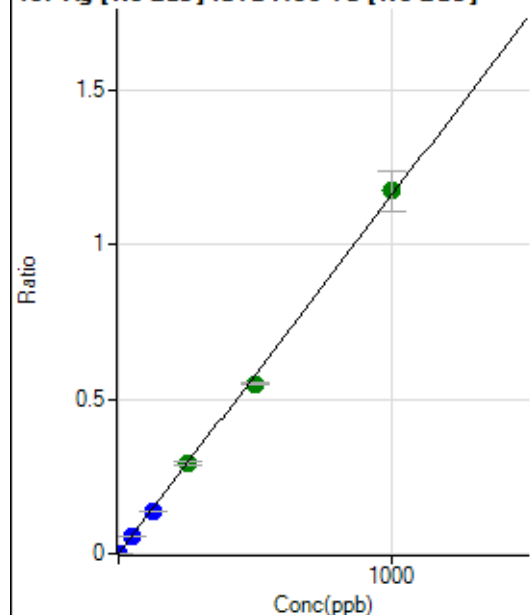
$$DL = 1.189$$

$$BEC = 11.42$$

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	41.11	0.0000	P	42.0
2	☐	1.000	0.894	10454.96	0.0010	P	2.1
3	☐	50.000	48.429	578176.33	0.0561	P	2.1
4	☐	125.000	119.599	1458595.69	0.1386	P	1.0
5	☐	250.000	250.674	3025741.14	0.2905	A	3.9
6	☐	500.000	475.069	5849310.95	0.5506	A	0.7
7	☐	1000.000	1013.051	11511313.44	1.1740	A	11.0
8	☐			1697.90	0.0002	P	2.8

$$y = 0.0012 * x + 4.2921E-006$$

$$R = 0.9995$$

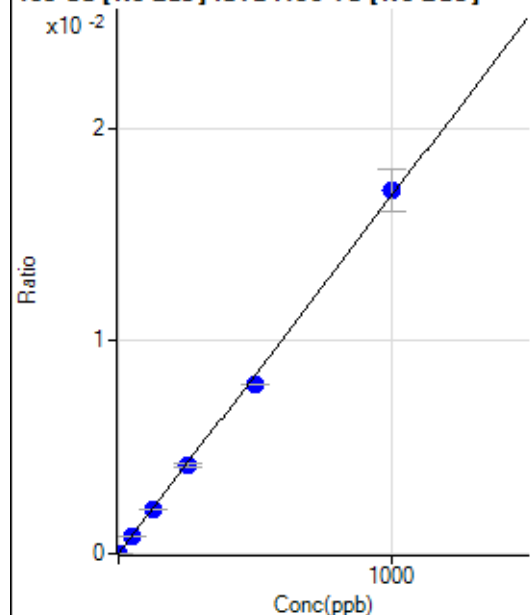
$$DL = 0.004662$$

$$BEC = 0.003704$$

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	11.11	0.0000	P	92.3
2	☐	1.000	1.062	191.11	0.0000	P	21.6
3	☐	50.000	49.630	8615.95	0.0008	P	3.8
4	☐	125.000	124.660	22091.32	0.0021	P	2.2
5	☐	250.000	247.886	43461.55	0.0042	P	4.2
6	☐	500.000	473.106	84611.42	0.0080	P	0.9
7	☐	1000.000	1014.036	167294.38	0.0171	P	11.6
8	☐			88.89	0.0000	P	12.4

$$y = 1.6831E-005 * x + 1.1600E-006$$

$$R = 0.9995$$

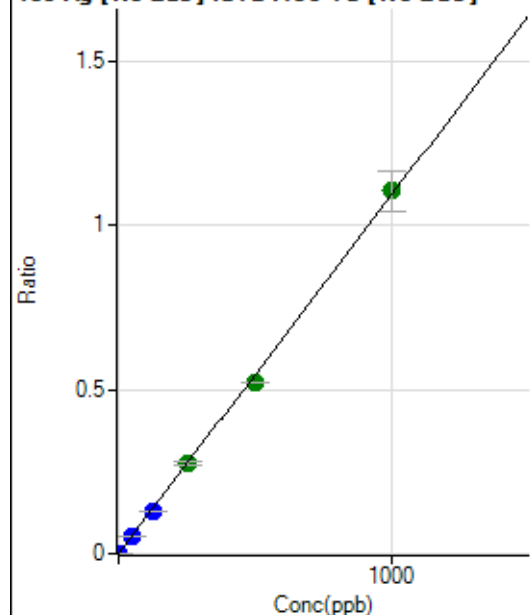
$$DL = 0.1909$$

$$BEC = 0.06892$$

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	28.89	0.0000	P	18.9
2	☐	1.000	0.900	9919.03	0.0010	P	3.2
3	☐	50.000	48.599	547377.08	0.0531	P	1.9
4	☐	125.000	119.456	1374409.28	0.1306	P	0.6
5	☐	250.000	251.054	2858375.44	0.2745	A	4.4
6	☐	500.000	477.546	5547135.33	0.5221	A	0.6
7	☐	1000.000	1011.727	10844476.51	1.1062	A	11.2
8	☐			1512.32	0.0001	P	5.9

$$y = 0.0011 * x + 3.0096E-006$$

$$R = 0.9996$$

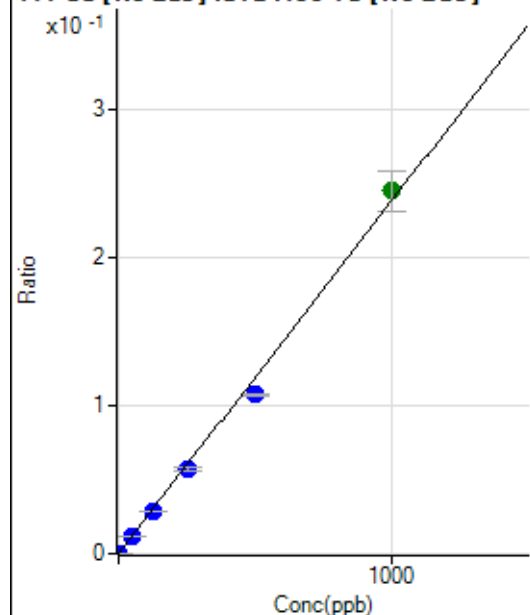
$$DL = 0.001558$$

$$BEC = 0.002753$$

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	1817.96	0.0002	P	3.7
2	☐	1.000	0.938	4141.42	0.0004	P	2.7
3	☐	50.000	48.246	120091.34	0.0117	P	1.4
4	☐	125.000	118.985	299636.64	0.0285	P	0.8
5	☐	250.000	237.409	589650.22	0.0566	P	4.5
6	☐	500.000	450.242	1139155.71	0.1072	P	1.1
7	☐	1000.000	1028.867	2399296.96	0.2448	A	11.4
8	☐			2315.99	0.0002	P	3.1

$$y = 2.3772E-004 * x + 1.8903E-004$$

$$R = 0.9981$$

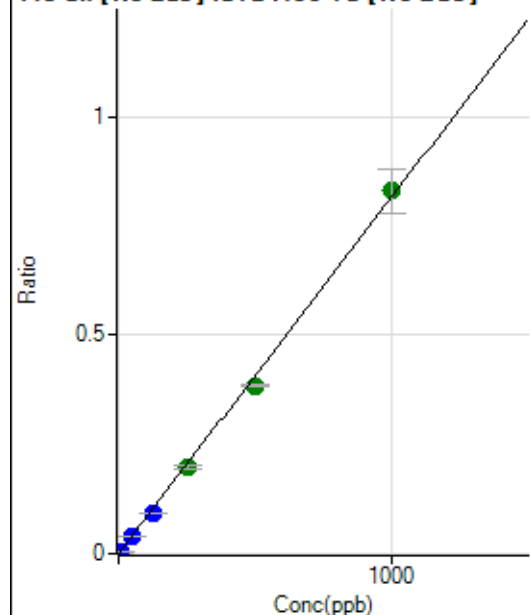
$$DL = 0.08838$$

$$BEC = 0.7952$$

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	1436.75	0.0001	P	2.8
2	☐	5.000	4.281	36571.90	0.0036	P	0.6
3	☐	50.000	46.205	389472.09	0.0378	P	1.8
4	☐	125.000	115.071	988528.83	0.0939	P	0.7
5	☐	250.000	245.009	2080945.72	0.1998	A	4.6
6	☐	500.000	469.731	4069186.19	0.3830	A	1.1
7	☐	1000.000	1017.817	8130222.38	0.8297	A	12.0
8	☐			4736.38	0.0005	P	6.2

$$y = 8.1505\text{E-}004 * x + 1.4948\text{E-}004$$

$$R = 0.9993$$

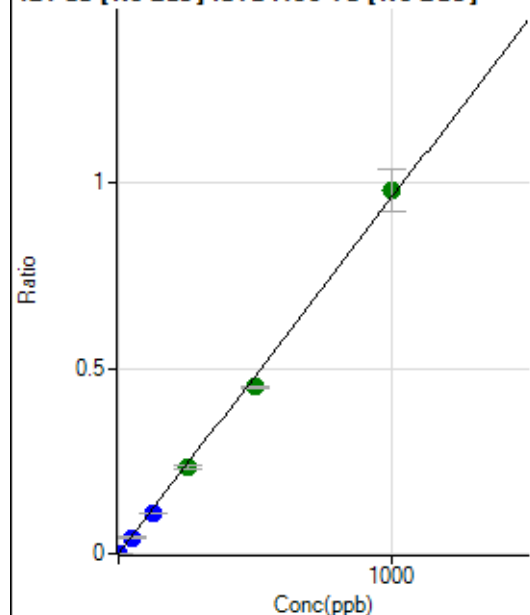
$$DL = 0.01526$$

$$BEC = 0.1834$$

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	30.00	0.0000	P	12.0
2	☐	2.000	1.771	17100.25	0.0017	P	2.1
3	☐	50.000	45.818	452606.60	0.0439	P	1.6
4	☐	125.000	114.187	1152233.93	0.1095	P	0.8
5	☐	250.000	242.919	2424469.72	0.2329	A	5.9
6	☐	500.000	467.722	4764995.90	0.4485	A	0.9
7	☐	1000.000	1019.470	9581494.44	0.9775	A	11.5
8	☐			6323.67	0.0006	P	2.7

$$y = 9.5888\text{E-}004 * x + 3.1228\text{E-}006$$

$$R = 0.9992$$

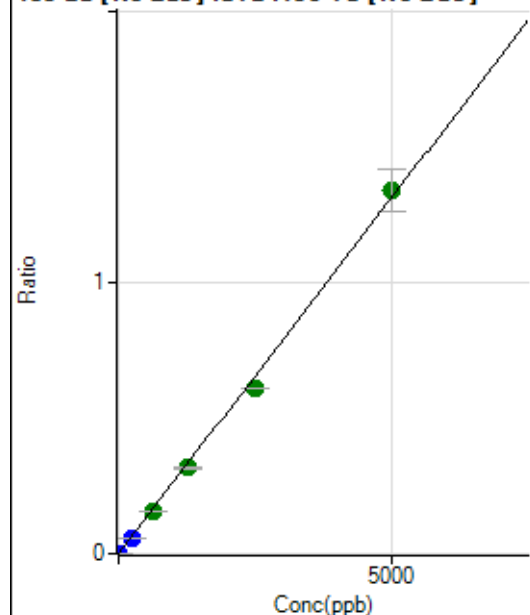
$$DL = 0.001176$$

$$BEC = 0.003257$$

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	175.56	0.0000	P	10.7
2	☐	10.000	8.280	21988.15	0.0022	P	1.8
3	☐	250.000	222.210	599982.62	0.0582	P	2.1
4	☐	625.000	599.012	1651952.53	0.1570	A	0.6
5	☐	1250.000	1203.617	3285386.27	0.3154	A	3.7
6	☐	2500.000	2335.021	6500978.72	0.6119	A	0.2
7	☐	5000.000	5098.727	13094512.17	1.3361	A	11.7
8	☐			5307.71	0.0005	P	0.6

$$y = 2.6204\text{E-}004 * x + 1.8249\text{E-}005$$

$$R = 0.9992$$

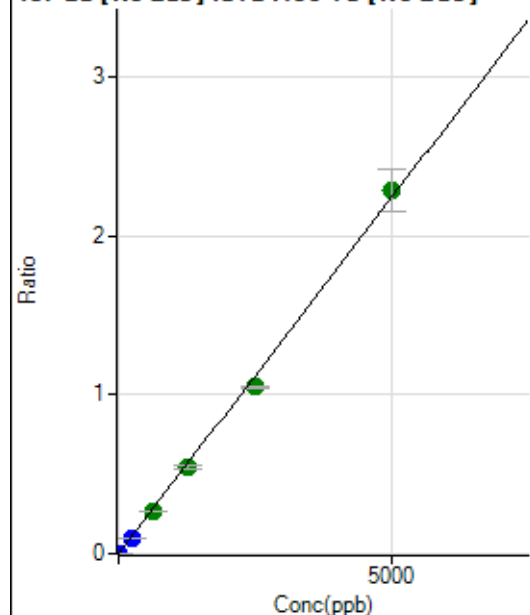
$$DL = 0.02241$$

$$BEC = 0.06964$$

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	267.79	0.0000	P	6.7
2	☐	10.000	8.418	38209.06	0.0038	P	1.7
3	☐	250.000	225.681	1042537.90	0.1012	P	1.6
4	☐	625.000	600.747	2834471.21	0.2694	A	0.1
5	☐	1250.000	1211.087	5652667.07	0.5430	A	5.3
6	☐	2500.000	2337.716	11135326.78	1.0481	A	0.5
7	☐	5000.000	5095.121	22388837.45	2.2843	A	11.6
8	☐			9675.85	0.0009	P	3.5

$$y = 4.4832\text{E-}004 * x + 2.7839\text{E-}005$$

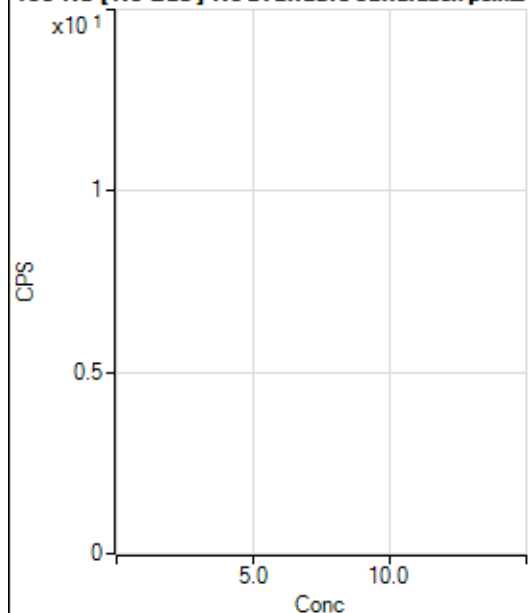
$$R = 0.9992$$

$$DL = 0.01255$$

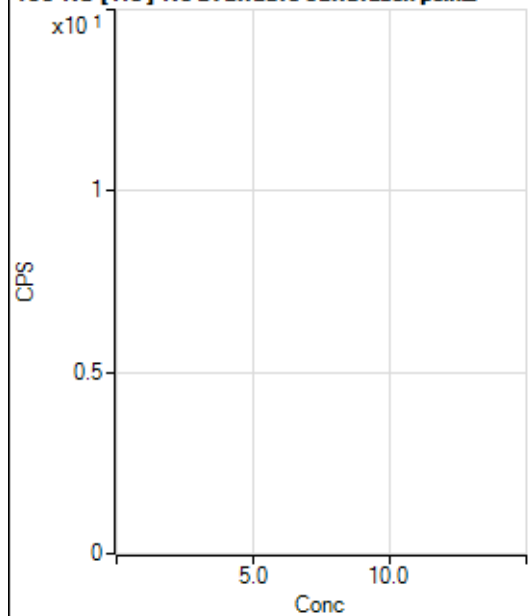
$$BEC = 0.0621$$

Weight: <None>

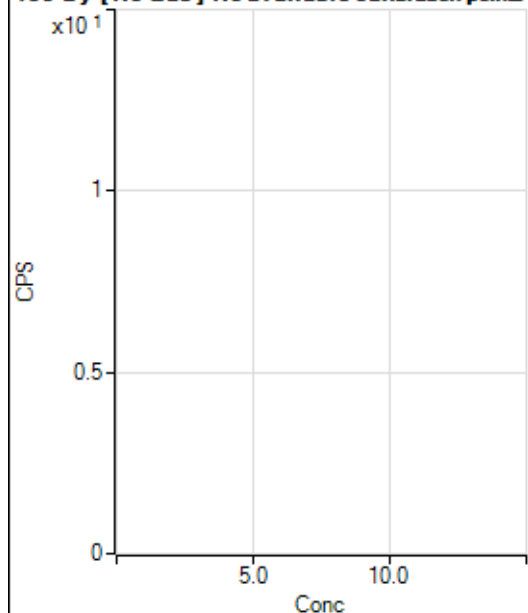
Min Conc: 0

150 Nd [No Gas] No available calibration points

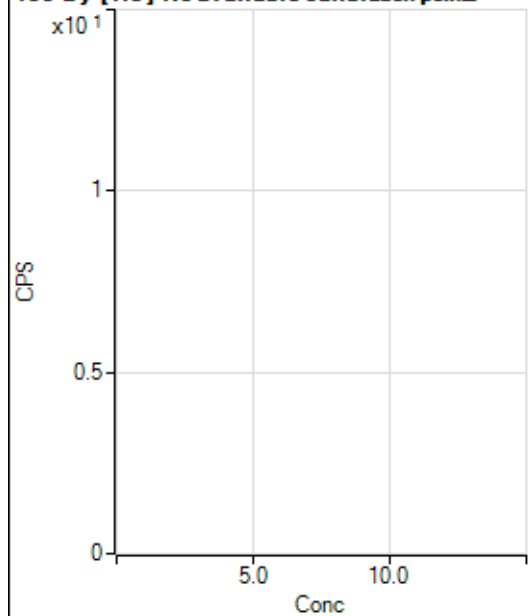
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			10.00		P	33.3
2	☐			17.78		P	65.8
3	☐			46.67		P	37.8
4	☐			97.78		P	20.8
5	☐			161.11		P	6.0
6	☐			391.12		P	10.8
7	☐			634.46		P	12.8
8	☐			217.78		P	7.2

150 Nd [He] No available calibration points

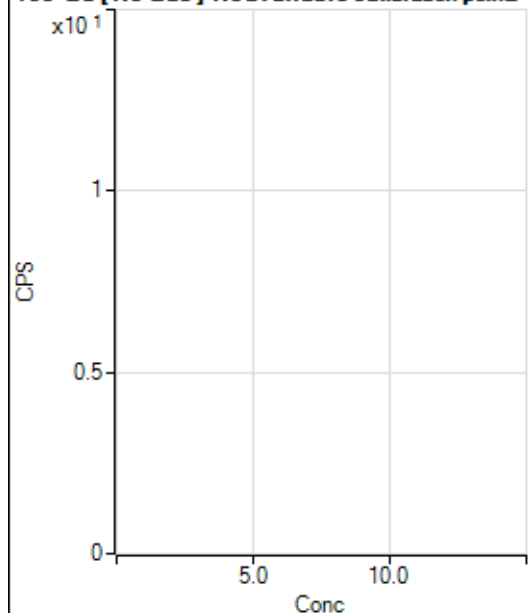
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	173.
2	☐			3.33		P	0.0
3	☐			7.78		P	24.7
4	☐			20.00		P	33.4
5	☐			48.89		P	25.8
6	☐			93.33		P	12.9
7	☐			136.67		P	14.8
8	☐			98.89		P	26.2

156 Dy [No Gas] No available calibration points

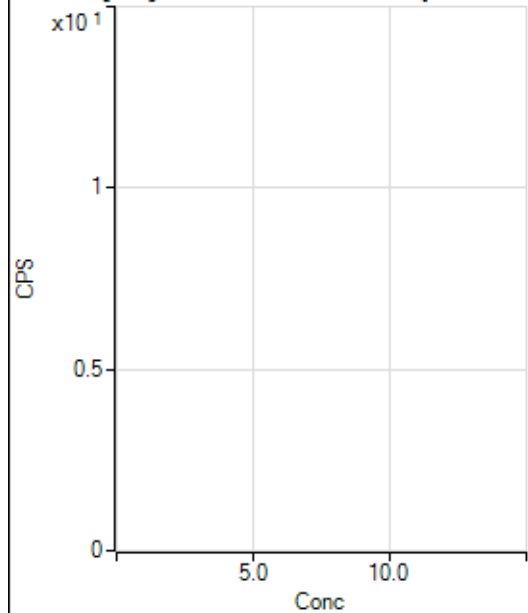
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1130.06		P	4.3
2	☐			996.71		P	9.9
3	☐			1016.71		P	6.7
4	☐			1095.61		P	4.9
5	☐			1176.73		P	6.7
6	☐			1318.97		P	8.4
7	☐			1596.77		P	2.3
8	☐			1325.63		P	16.4

156 Dy [He] No available calibration points

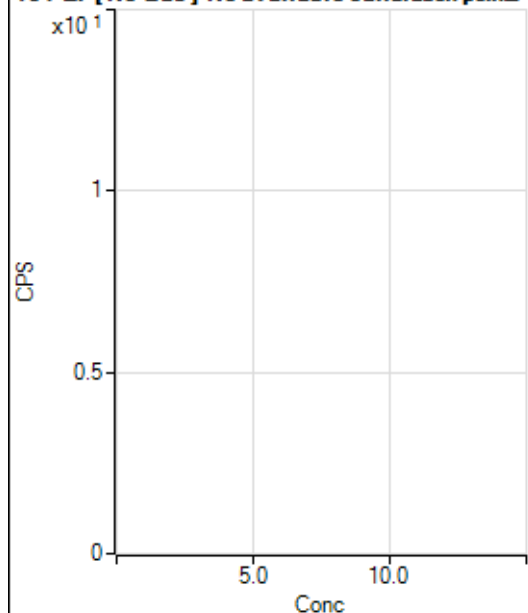
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			240.00		P	2.4
2	☐			240.00		P	12.1
3	☐			262.23		P	7.2
4	☐			274.45		P	15.3
5	☐			375.56		P	17.8
6	☐			502.24		P	2.5
7	☐			808.92		P	4.2
8	☐			371.12		P	9.2

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

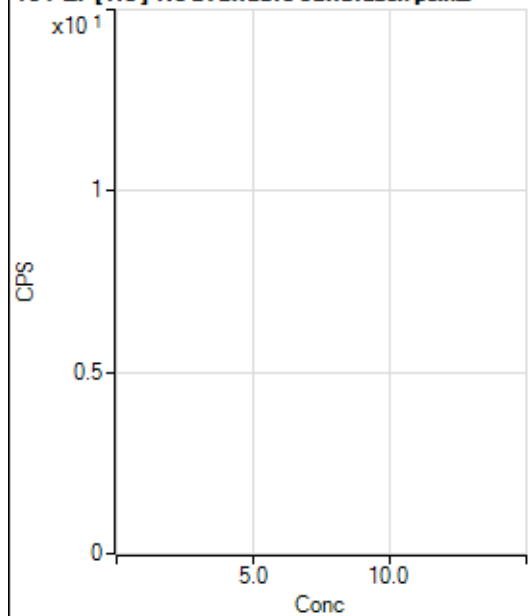
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			35.56		P	51.6
2	☐			37.78		P	22.2
3	☐			41.11		P	30.7
4	☐			56.67		P	36.7
5	☐			82.22		P	16.4
6	☐			127.78		P	10.5
7	☐			123.33		P	15.0
8	☐			313.34		P	9.1

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			218.89		P	5.8
2	☐			237.78		P	6.9
3	☐			283.34		P	7.1
4	☐			250.01		P	10.1
5	☐			261.12		P	12.8
6	☐			278.90		P	11.1
7	☐			312.23		P	2.2
8	☐			413.34		P	9.8

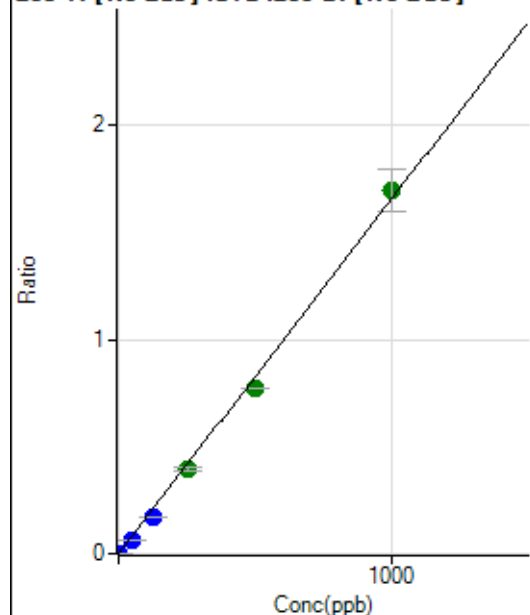
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			70.00		P	21.8
2	☐			64.44		P	23.3
3	☐			78.89		P	27.5
4	☐			85.56		P	6.0
5	☐			80.00		P	25.3
6	☐			192.22		P	20.7
7	☐			193.34		P	13.7
8	☐			434.46		P	10.3

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			44.44		P	22.9
2	☐			40.00		P	16.7
3	☐			38.89		P	21.6
4	☐			42.22		P	12.1
5	☐			58.89		P	63.6
6	☐			94.44		P	5.4
7	☐			94.44		P	20.4
8	☐			248.89		P	12.2

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	86.67	0.0000	P	9.1
2	☐	1.000	0.752	8032.44	0.0013	P	1.4
3	☐	50.000	40.263	434649.20	0.0666	P	0.6
4	☐	125.000	101.976	1106747.90	0.1687	P	1.8
5	☐	250.000	238.084	2580994.02	0.3939	A	3.1
6	☐	500.000	465.450	5091792.56	0.7701	A	0.6
7	☐	1000.000	1023.619	10162512.28	1.6936	A	11.5
8	☐			1623.97	0.0003	P	31.8

$$y = 0.0017 * x + 1.4003E-005$$

$$R = 0.9989$$

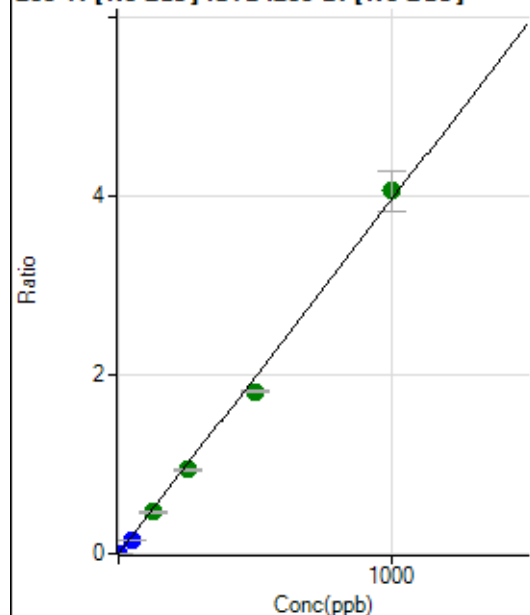
$$DL = 0.002316$$

$$BEC = 0.008463$$

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	221.12	0.0000	P	11.5
2	☐	1.000	0.765	19570.85	0.0031	P	1.2
3	☐	50.000	40.131	1037534.79	0.1591	P	1.3
4	☐	125.000	117.723	3059751.34	0.4665	A	2.5
5	☐	250.000	236.810	6146960.60	0.9384	A	3.8
6	☐	500.000	458.581	12013899.40	1.8171	A	1.3
7	☐	1000.000	1025.410	24384830.19	4.0631	A	11.2
8	☐			3412.53	0.0006	P	26.6

$$y = 0.0040 * x + 3.5720E-005$$

$$R = 0.9987$$

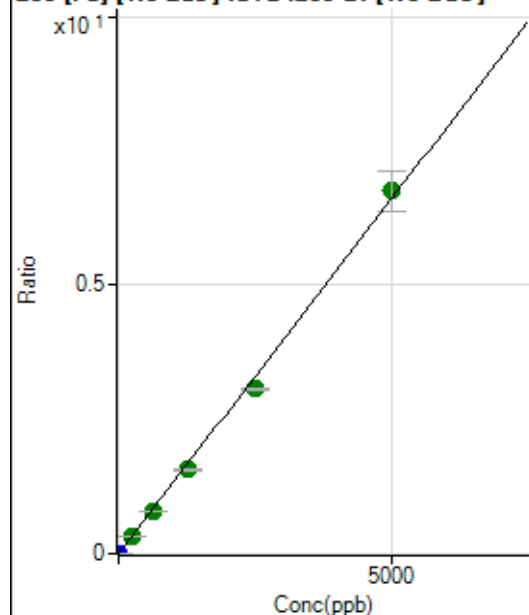
$$DL = 0.003099$$

$$BEC = 0.009015$$

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	477.79	0.0001	P	3.8
2	☐	1.000	0.776	7034.10	0.0011	P	2.0
3	☐	250.000	234.367	2021404.86	0.3099	A	1.1
4	☐	625.000	589.965	5115757.84	0.7799	A	1.5
5	☐	1250.000	1182.005	10237023.32	1.5625	A	3.7
6	☐	2500.000	2321.393	20288406.23	3.0686	A	1.0
7	☐	5000.000	5111.463	40556089.12	6.7566	A	11.0
8	☐			8366.27	0.0015	P	17.6

$$y = 0.0013 * x + 7.7225E-005$$

$$R = 0.9990$$

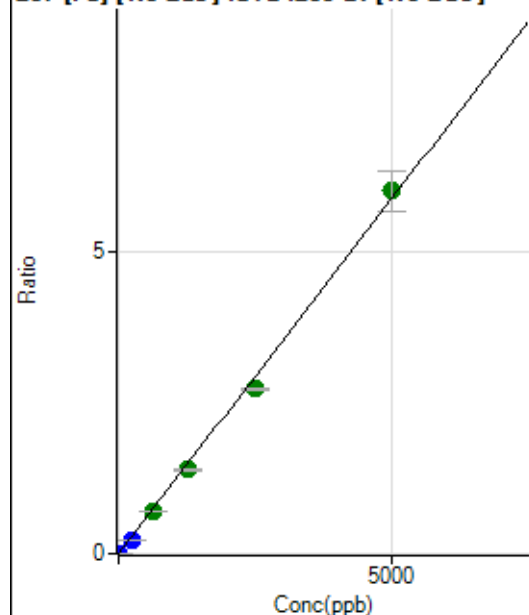
$$DL = 0.006634$$

$$BEC = 0.05842$$

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	407.79	0.0001	P	12.0
2	☐	1.000	0.747	6026.94	0.0009	P	1.9
3	☐	250.000	200.980	1541866.24	0.2364	P	0.8
4	☐	625.000	593.304	4576573.30	0.6976	A	2.1
5	☐	1250.000	1181.280	9098878.54	1.3889	A	4.1
6	☐	2500.000	2320.280	18036919.18	2.7281	A	1.8
7	☐	5000.000	5113.453	36083547.24	6.0120	A	11.1
8	☐			7329.52	0.0013	P	12.8

$$y = 0.0012 * x + 6.5976E-005$$

$$R = 0.9990$$

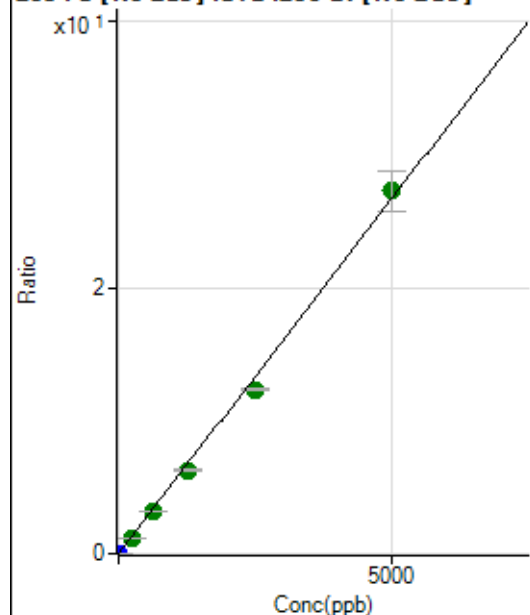
$$DL = 0.02012$$

$$BEC = 0.05612$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1846.73	0.0003	P	4.3
2	☐	1.000	0.758	27690.12	0.0043	P	2.6
3	☐	250.000	226.540	7879753.12	1.2079	A	0.8
4	☐	625.000	591.602	20689741.95	3.1540	A	1.2
5	☐	1250.000	1178.405	41152004.04	6.2821	A	4.0
6	☐	2500.000	2317.029	81666399.48	12.3519	A	1.4
7	☐	5000.000	5114.732	163649062.2	27.2658	A	11.1
8	☐			33025.58	0.0057	P	15.7

$$y = 0.0053 * x + 2.9853E-004$$

$$R = 0.9989$$

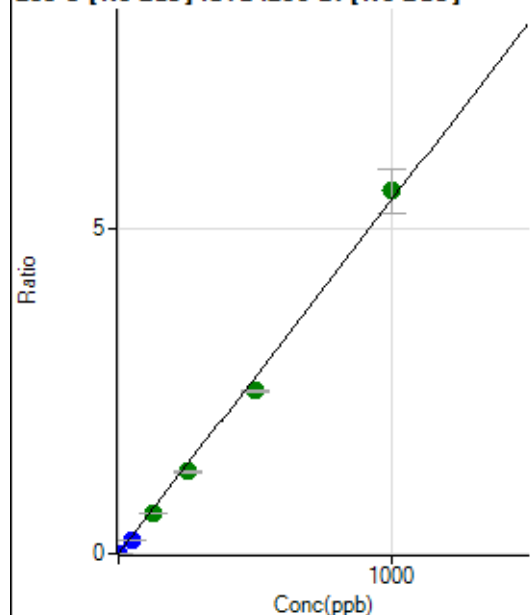
$$DL = 0.007221$$

$$BEC = 0.056$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	132.23	0.0000	P	8.0
2	☐	1.000	0.741	25835.08	0.0040	P	1.6
3	☐	50.000	38.817	1375659.70	0.2109	P	1.3
4	☐	125.000	115.558	4117768.93	0.6278	A	1.3
5	☐	250.000	232.050	8257981.41	1.2606	A	3.8
6	☐	500.000	459.992	16520896.98	2.4988	A	1.5
7	☐	1000.000	1026.231	33442501.72	5.5747	A	11.9
8	☐			2767.51	0.0005	P	22.0

$$y = 0.0054 * x + 2.1369E-005$$

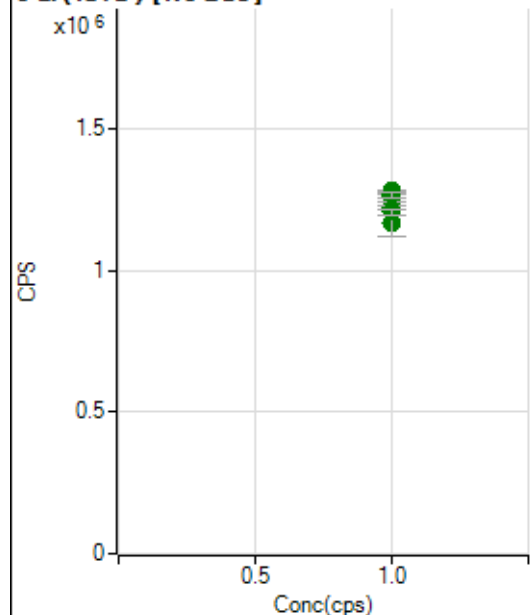
$$R = 0.9987$$

$$DL = 0.0009485$$

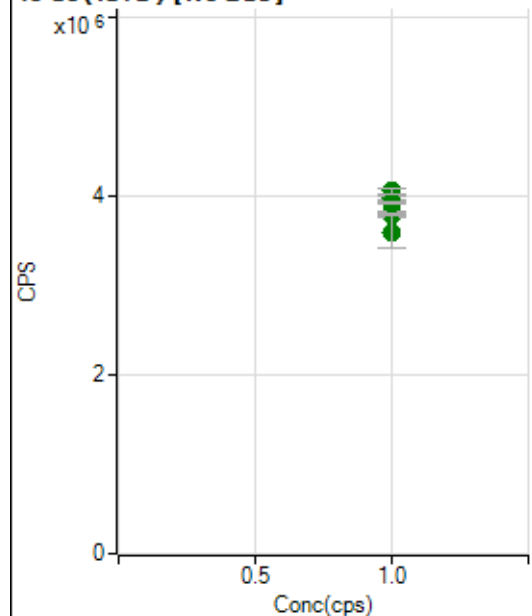
$$BEC = 0.003934$$

Weight: <None>

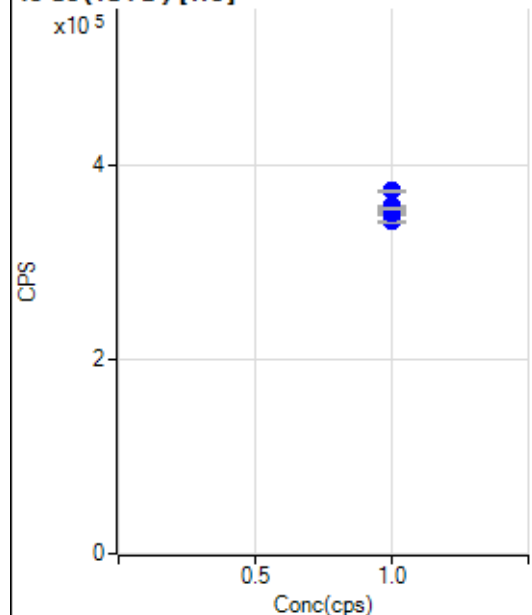
Min Conc: 0

6 Li (ISTD) [No Gas]

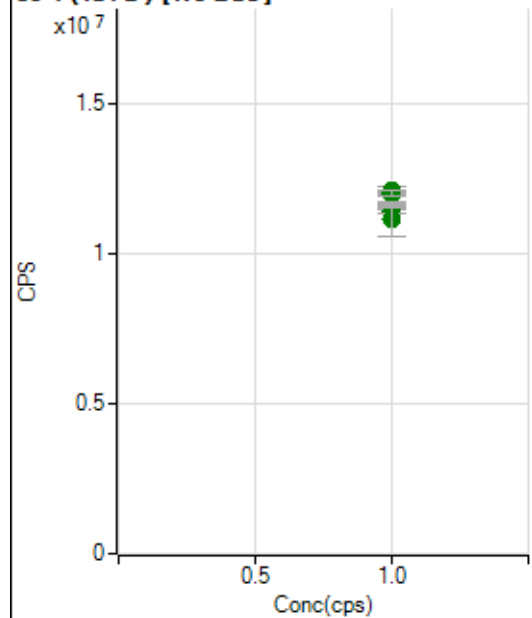
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1223035.42		A	1.3
2	☐	1.000		1252969.69		A	2.2
3	☐	1.000		1280411.92		A	0.6
4	☐	1.000		1261478.30		A	1.2
5	☐	1.000		1257272.24		A	2.7
6	☐	1.000		1266968.21		A	1.5
7	☐	1.000		1169029.82		A	8.4
8	☐	1.000		1204804.12		A	2.0

45 Sc (ISTD) [No Gas]

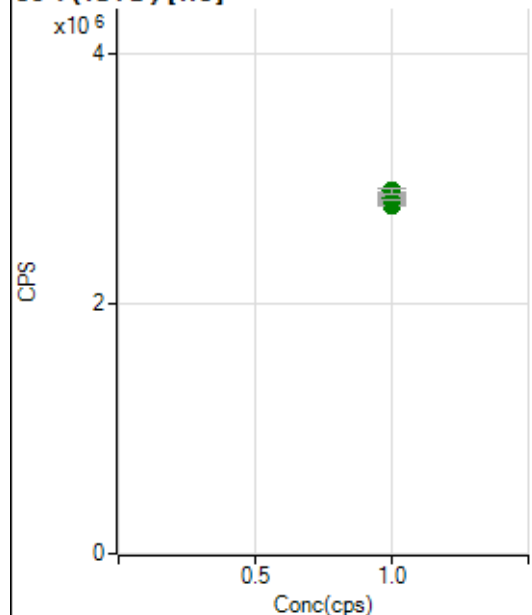
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3789334.18		A	1.7
2	☐	1.000		3821533.66		A	0.6
3	☐	1.000		3935369.38		A	0.4
4	☐	1.000		3981054.97		A	0.8
5	☐	1.000		3911559.56		A	4.8
6	☐	1.000		3919921.26		A	0.5
7	☐	1.000		3600252.59		A	9.8
8	☐	1.000		4058071.29		A	1.7

45 Sc (ISTD) [He]

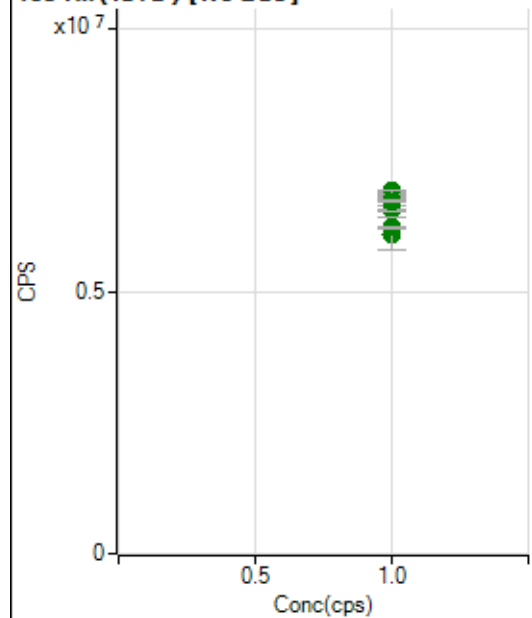
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		341816.08		P	0.3
2	☐	1.000		349856.24		P	0.5
3	☐	1.000		357676.90		P	0.5
4	☐	1.000		355564.27		P	0.5
5	☐	1.000		351640.97		P	0.7
6	☐	1.000		350228.97		P	0.3
7	☐	1.000		355425.72		P	0.5
8	☐	1.000		373615.12		P	0.4

89 Y (ISTD) [No Gas]

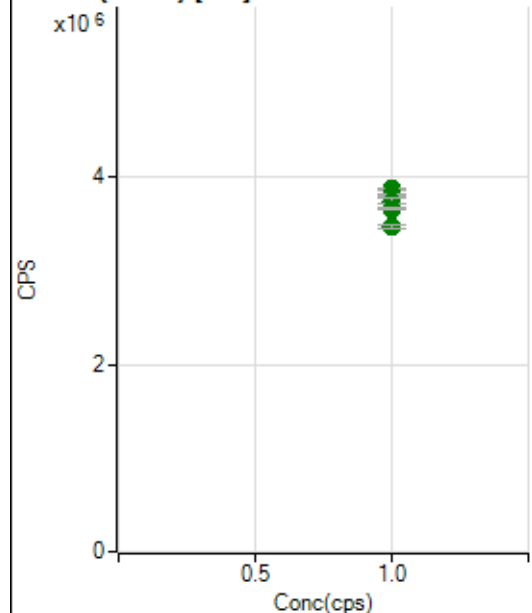
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11417801.08		A	1.4
2	☐	1.000		11568137.88		A	0.1
3	☐	1.000		12004167.74		A	0.6
4	☐	1.000		12072663.02		A	0.5
5	☐	1.000		11985909.68		A	4.9
6	☐	1.000		12097898.85		A	0.5
7	☐	1.000		11174792.68		A	10.1
8	☐	1.000		12026077.74		A	1.8

89 Y(ISTD) [He]

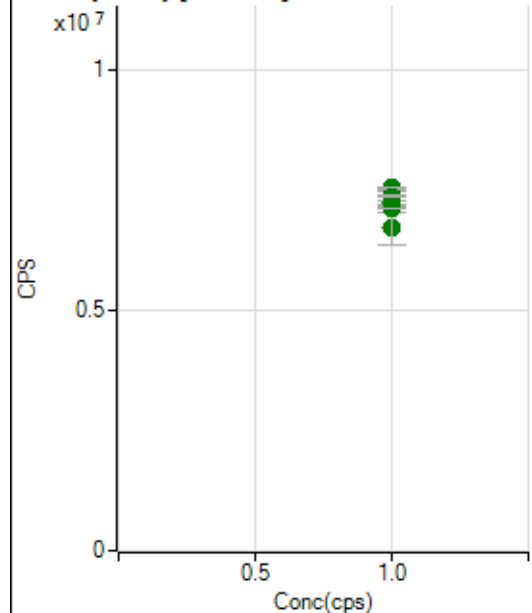
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2783398.01		A	0.7
2	☐	1.000		2826761.28		A	1.4
3	☐	1.000		2882601.10		A	0.4
4	☐	1.000		2840808.22		A	0.6
5	☐	1.000		2861028.08		A	0.9
6	☐	1.000		2821908.78		A	0.7
7	☐	1.000		2849002.73		A	1.1
8	☐	1.000		2897772.80		A	1.5

103 Rh(ISTD) [No Gas]

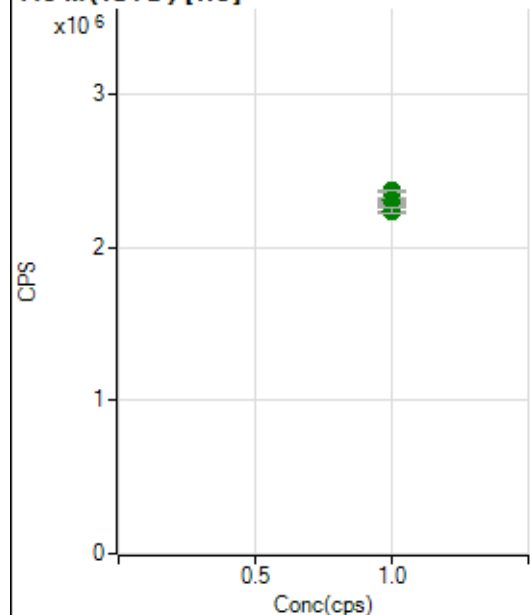
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6582386.92		A	1.9
2	☐	1.000		6744385.67		A	1.0
3	☐	1.000		6921420.52		A	0.2
4	☐	1.000		6836526.08		A	0.4
5	☐	1.000		6743689.62		A	5.1
6	☐	1.000		6721892.96		A	0.5
7	☐	1.000		6107794.56		A	9.9
8	☐	1.000		6222819.49		A	0.8

103 Rh (ISTD) [He]

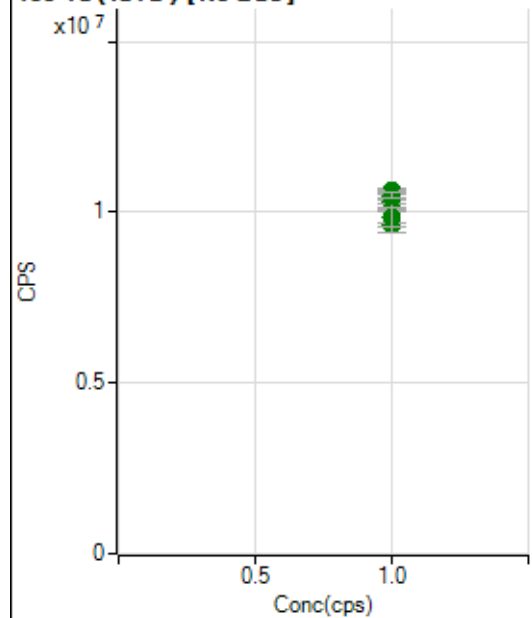
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3719294.29		A	0.3
2	☐	1.000		3814832.72		A	0.5
3	☐	1.000		3875123.17		A	0.5
4	☐	1.000		3811592.69		A	0.9
5	☐	1.000		3747050.54		A	1.4
6	☐	1.000		3744056.19		A	1.7
7	☐	1.000		3664349.25		A	0.3
8	☐	1.000		3472301.68		A	1.3

115 In (ISTD) [No Gas]

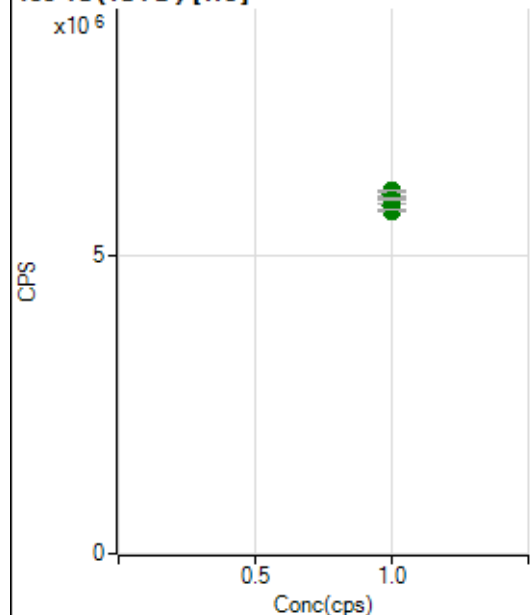
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7246084.39		A	1.5
2	☐	1.000		7374180.16		A	0.4
3	☐	1.000		7502841.44		A	0.4
4	☐	1.000		7560479.35		A	0.5
5	☐	1.000		7382804.94		A	5.0
6	☐	1.000		7385914.73		A	0.6
7	☐	1.000		6712426.02		A	9.9
8	☐	1.000		7146376.32		A	0.1

115 In (ISTD) [He]

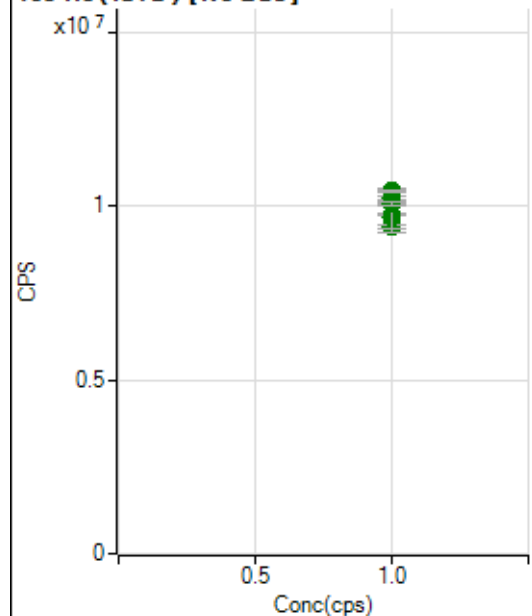
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2271186.76		A	0.4
2	☐	1.000		2301590.45		A	0.9
3	☐	1.000		2372843.17		A	0.6
4	☐	1.000		2315568.96		A	1.3
5	☐	1.000		2286411.99		A	0.3
6	☐	1.000		2270413.61		A	0.9
7	☐	1.000		2237568.50		A	0.5
8	☐	1.000		2240980.18		A	1.7

159 Tb (ISTD) [No Gas]

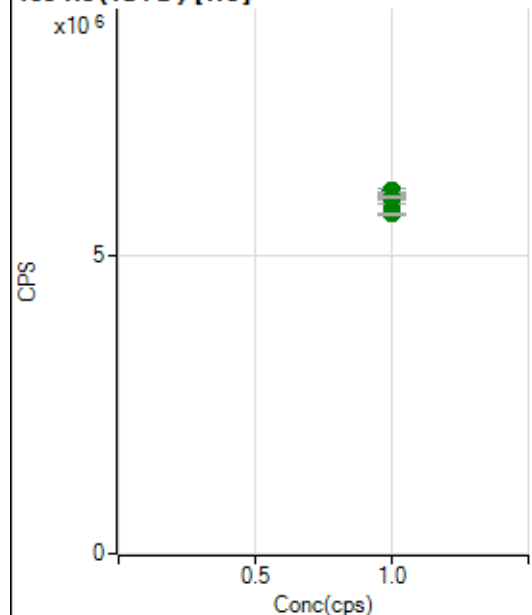
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9613855.14		A	1.4
2	☐	1.000		10050720.82		A	0.8
3	☐	1.000		10302076.03		A	0.8
4	☐	1.000		10523231.37		A	0.2
5	☐	1.000		10429133.59		A	5.1
6	☐	1.000		10624552.07		A	0.5
7	☐	1.000		9878310.41		A	10.1
8	☐	1.000		10495892.27		A	1.4

159 Tb (ISTD) [He]

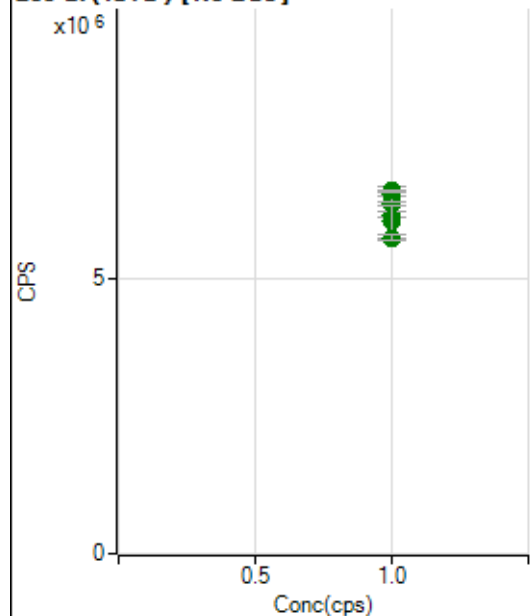
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5748459.57		A	0.3
2	☐	1.000		5825714.42		A	1.4
3	☐	1.000		5975805.26		A	0.0
4	☐	1.000		6010454.98		A	2.1
5	☐	1.000		5962936.79		A	0.7
6	☐	1.000		6038157.27		A	1.7
7	☐	1.000		6088736.37		A	0.2
8	☐	1.000		5952872.13		A	1.0

165 Ho (ISTD) [No Gas]

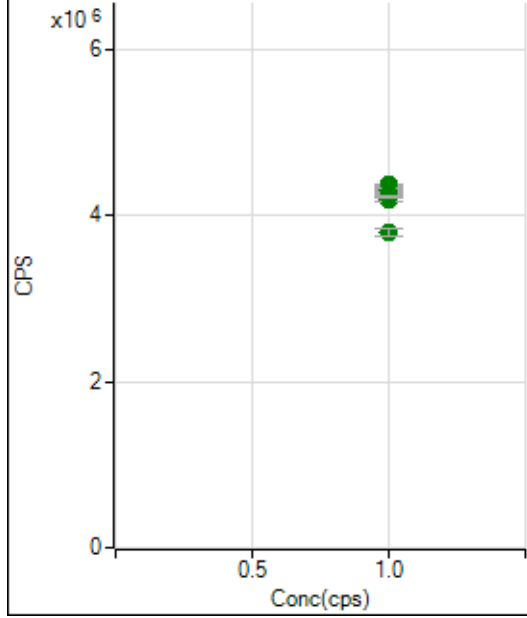
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9408473.54		A	1.1
2	☐	1.000		9761850.90		A	0.2
3	☐	1.000		10139545.96		A	1.0
4	☐	1.000		10255652.35		A	1.0
5	☐	1.000		10249755.61		A	4.9
6	☐	1.000		10439546.79		A	0.7
7	☐	1.000		9707203.47		A	9.9
8	☐	1.000		10067811.93		A	0.8

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5709387.55		A	0.5
2	☐	1.000		5891064.22		A	0.3
3	☐	1.000		6005143.45		A	1.2
4	☐	1.000		5991780.33		A	1.0
5	☐	1.000		6036406.85		A	0.5
6	☐	1.000		6102161.57		A	1.9
7	☐	1.000		6083530.67		A	0.3
8	☐	1.000		5997728.17		A	0.7

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6185041.92		A	1.4
2	☐	1.000		6380556.71		A	0.6
3	☐	1.000		6523340.94		A	0.0
4	☐	1.000		6560254.42		A	1.6
5	☐	1.000		6557410.18		A	4.0
6	☐	1.000		6611861.29		A	0.5
7	☐	1.000		6047703.45		A	10.2
8	☐	1.000		5758798.32		A	2.1

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4185126.60		A	1.0
2	☐	1.000		4274826.33		A	0.7
3	☐	1.000		4369784.55		A	0.6
4	☐	1.000		4321958.58		A	0.8
5	☐	1.000		4306731.15		A	0.6
6	☐	1.000		4272453.79		A	0.4
7	☐	1.000		4228693.10		A	0.3
8	☐	1.000		3802990.64		A	2.1

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7110324-MS.b

Acq. Date-Time 2024-11-03 14:07:03

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		9860	98600.53			0.910	5.000
24		284423	2844233.97			0.674	5.000
25		37829	378288.69			1.135	5.000
26		43537	435366.48			1.121	5.000
59		59206	592062.96			1.098	5.000
113		4858	48575.24			1.289	5.000
115		114102	1141016.85			1.282	5.000
206		24658	246584.71			1.276	5.000
207		20379	203786.91			1.098	5.000
208		49995	499949.21			0.899	5.000
220		0	3.70			57.014	

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

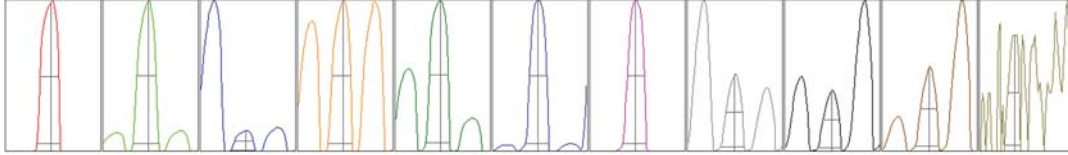
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	9868	9869	9930	9709	9925
24	283877	284322	284987	281813	287118
25	37550	37891	37985	37298	38420
26	43385	43573	43748	42826	44151
59	59408	59292	59702	58077	59553
113	4925	4849	4882	4757	4874
115	115395	115229	113763	111770	114352
206	24917	24819	24797	24126	24633
207	20570	20517	20488	20024	20294
208	50161	50100	50373	49214	50127

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	17187.95	8.95	8.90 - 9.10	
24	498176.27	23.95	23.90 - 24.10	
25	66153.10	24.95	24.90 - 25.10	
26	76934.64	25.95	25.90 - 26.10	
59	101604.99	58.95	58.90 - 59.10	
113	9192.05	112.95	112.90 - 113.10	
115	217163.60	114.95	114.90 - 115.10	
206	49215.37	206.00	205.90 - 206.10	
207	40692.64	207.00	206.90 - 207.10	
208	99787.16	208.00	207.90 - 208.10	
220	0.50	219.65	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.60	0.736	0.900	
24	0.62	0.823	0.900	
25	0.60	0.747	0.900	
26	0.60	0.776	0.900	
59	0.61	0.768	0.900	
113	0.54	0.741	0.900	
115	0.52	0.750	0.900	
206	0.52	0.742	0.900	
207	0.51	0.737	0.900	
208	0.52	0.749	0.900	
220	0.37	0.489		

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	8.4 V	Deflect	15.4 V
Extract 2	-155.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-80 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	135	Axis Gain	0.9979	QP Bias	-3.0 V
Mass Offset	130	Axis Offset	0.08		

Hardware Settings

Torch

Torch H	-0.6 mm	Torch V	0.5 mm
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EM

Discriminator	4.9 mV	Analog HV	2429 V	Pulse HV	2000 V
---------------	--------	-----------	--------	----------	--------

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		20928	209277.99			1.970	
89		107108	1071080.04			2.434	
205		29328	293284.16			1.477	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	21062	20967	21002	20245	21363
89	108652	106680	108149	102773	109286
205	29798	29241	29222	28704	29677

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	8.2 V	Deflect	3.4 V
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US EPA Tune Check Report

Extract 2	-145.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-80 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	135	Axis Gain	0.9979	QP Bias	-13.0 V
Mass Offset	130	Axis Offset	0.08		

Hardware Settings

Torch

Torch H	-0.6 mm	Torch V	0.5 mm
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EM

Discriminator	4.9 mV	Analog HV	2429 V	Pulse HV	2000 V
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