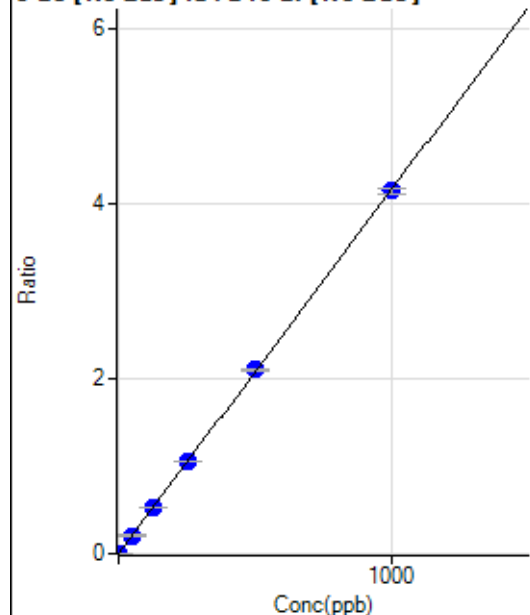


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8092120MS.b\
Analysis File: P8092120MS.batch.bin
DA Date-Time: 2020-09-21 13:19:30
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	005CALB.d	S00	2020-09-21 12:42:13
2	006CALS.d	S02	2020-09-21 12:45:37
3	007CALS.d	S03	2020-09-21 12:48:59
4	008CALS.d	S04	2020-09-21 12:52:23
5	009CALS.d	S05	2020-09-21 12:55:39
6	010CALS.d	S06	2020-09-21 12:58:53
7	011CALS.d	S07	2020-09-21 13:01:58
8	012CALS.d	S08	2020-09-21 13:04:58

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	32.66	0.0002	P	47.8
2	☐	1.000	0.887	741.21	0.0039	P	5.4
3	☐	50.000	49.997	40418.34	0.2080	P	0.6
4	☐	125.000	126.871	103645.19	0.5277	P	1.6
5	☐	250.000	253.263	208876.18	1.0531	P	0.3
6	☐	500.000	504.750	422487.37	2.0987	P	1.5
7	☐	1000.000	996.576	847420.08	4.1436	P	1.4
8	☐			235.96	0.0012	P	2.0

$$y = 0.0042 * x + 1.6799E-004$$

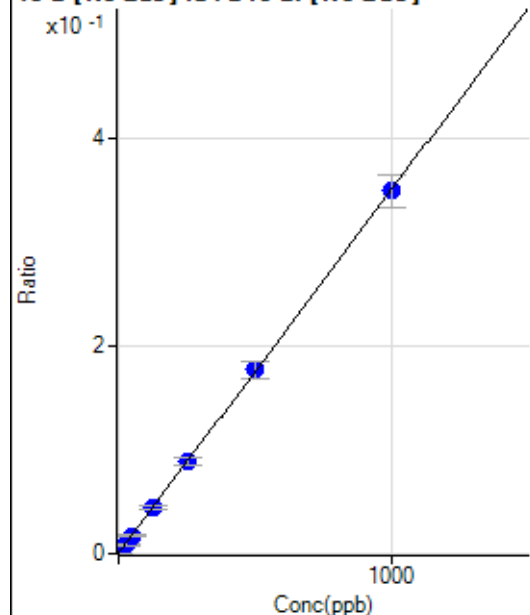
$$R = 1.0000$$

$$DL = 0.05792$$

$$BEC = 0.04041$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	99.31	0.0005	P	10.8
2	☐	25.000	22.777	1629.11	0.0085	P	13.9
3	☐	50.000	48.680	3408.40	0.0175	P	8.2
4	☐	125.000	124.552	8661.53	0.0441	P	8.3
5	☐	250.000	253.475	17688.50	0.0892	P	9.5
6	☐	500.000	505.316	35714.31	0.1773	P	9.7
7	☐	1000.000	996.651	71446.07	0.3492	P	8.9
8	☐			9704.65	0.0476	P	15.3

$$y = 3.4989E-004 * x + 5.1012E-004$$

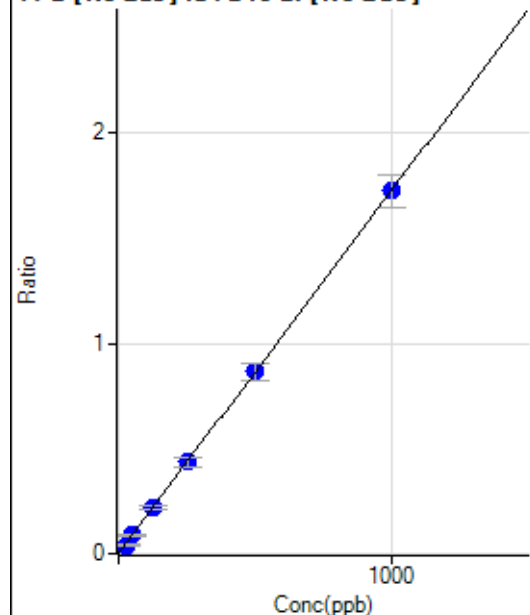
$$R = 1.0000$$

$$DL = 0.4736$$

$$BEC = 1.458$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	503.91	0.0026	P	3.6
2	☐	25.000	21.911	7755.19	0.0404	P	7.3
3	☐	50.000	50.415	17393.53	0.0895	P	9.0
4	☐	125.000	125.787	43119.92	0.2195	P	9.1
5	☐	250.000	252.180	86744.88	0.4374	P	10.2
6	☐	500.000	499.982	174165.61	0.8647	P	9.4
7	☐	1000.000	999.422	353100.21	1.7260	P	8.9
8	☐			46136.74	0.2262	P	15.8

$$y = 0.0017 * x + 0.0026$$

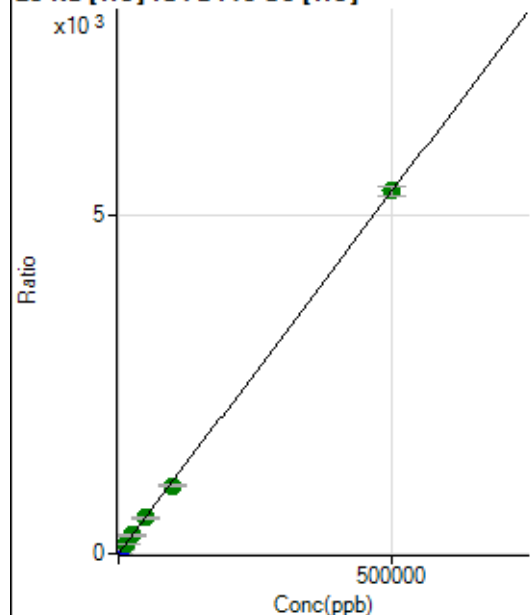
$$R = 1.0000$$

$$DL = 0.1642$$

$$BEC = 1.501$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	39339.72	3.1618	P	0.9
2	☐	500.000	493.061	102727.27	8.4158	P	2.0
3	☐	5000.000	5124.933	729659.10	57.7720	P	0.6
4	☐	12500.000	12950.961	1751160.00	141.1646	A	1.9
5	☐	25000.000	25546.690	3420716.96	275.3820	A	4.5
6	☐	50000.000	48905.014	6669878.06	524.2834	A	2.1
7	☐	100000.00	93259.741	13591234.68	996.9181	A	2.2
8	☐	500000.00	501417.69	65210422.98	5,346.1640	A	2.4

$$y = 0.0107 * x + 3.1618$$

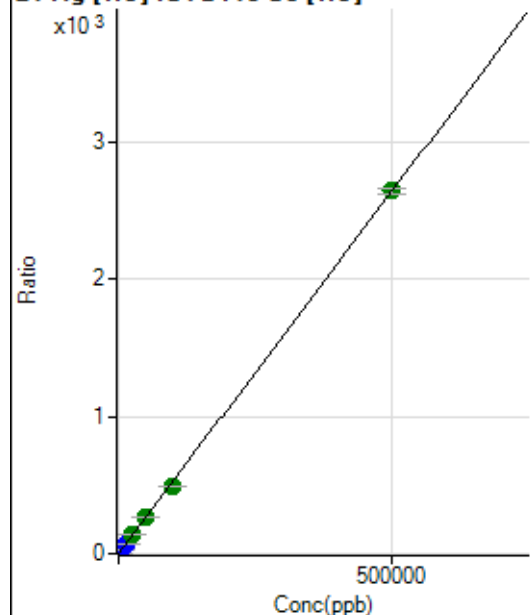
$$R = 0.9999$$

$$DL = 8.173$$

$$BEC = 296.7$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	483.36	0.0388	P	8.3
2	☐	500.000	487.756	31849.27	2.6094	P	3.0
3	☐	5000.000	5160.522	343989.48	27.2361	P	0.5
4	☐	12500.000	13199.594	863520.78	69.6040	P	0.6
5	☐	25000.000	25945.172	1698788.45	136.7763	A	5.2
6	☐	50000.000	49872.233	3344276.09	262.8779	A	2.2
7	☐	100000.00	93096.940	6689549.97	490.6828	A	2.2
8	☐	500000.00	501327.04	32229521.90	2,642.1569	A	1.9

$$y = 0.0053 * x + 0.0388$$

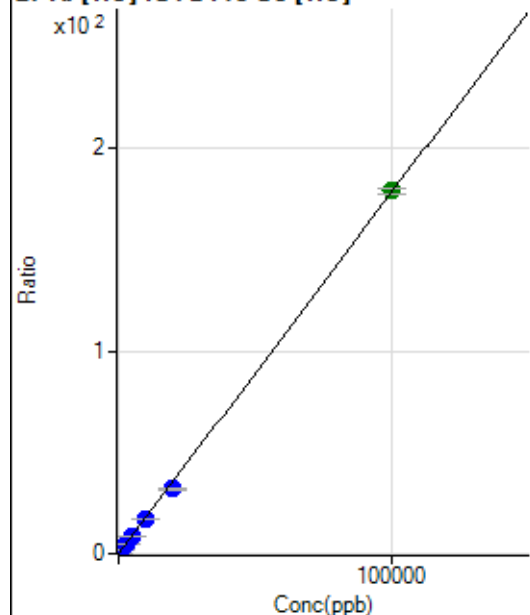
$$R = 0.9999$$

$$DL = 1.837$$

$$BEC = 7.37$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	599.52	0.0482	P	5.6
2	☐	20.000	19.419	1009.91	0.0827	P	1.8
3	☐	1000.000	968.552	22376.42	1.7717	P	0.4
4	☐	2500.000	2444.946	54571.67	4.3989	P	0.9
5	☐	5000.000	4839.378	107602.77	8.6597	P	3.1
6	☐	10000.000	9452.444	214588.66	16.8684	P	2.4
7	☐	20000.000	17840.607	433489.67	31.7949	P	1.8
8	☐	100000.00	100496.35	2182018.92	178.8776	A	1.8

$$y = 0.0018 * x + 0.0482$$

$$R = 0.9997$$

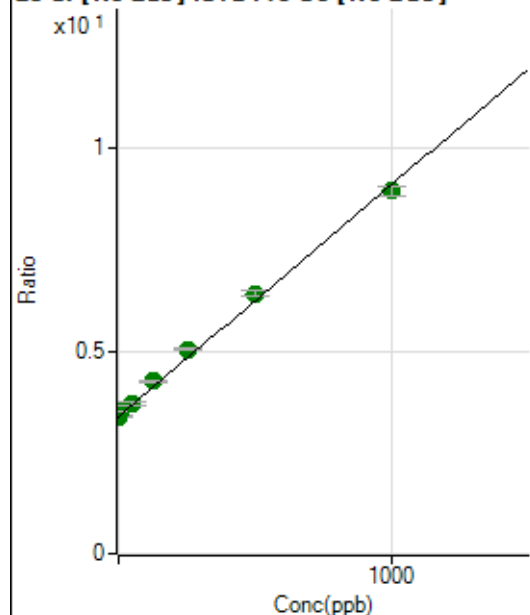
$$DL = 4.57$$

$$BEC = 27.07$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	916196.43	3.3950	A	1.6
2	☐	10.000	22.494	942641.77	3.5237	A	0.8
3	☐	50.000	54.164	1013518.31	3.7050	A	1.3
4	☐	125.000	149.723	1161670.68	4.2519	A	1.2
5	☐	250.000	288.934	1394268.91	5.0488	A	1.4
6	☐	500.000	528.210	1795248.57	6.4183	A	2.3
7	☐	1000.000	972.738	2603264.99	8.9627	A	2.4
8	☐			998417.06	3.6831	A	4.8

$$y = 0.0057 * x + 3.3950$$

$$R = 0.9985$$

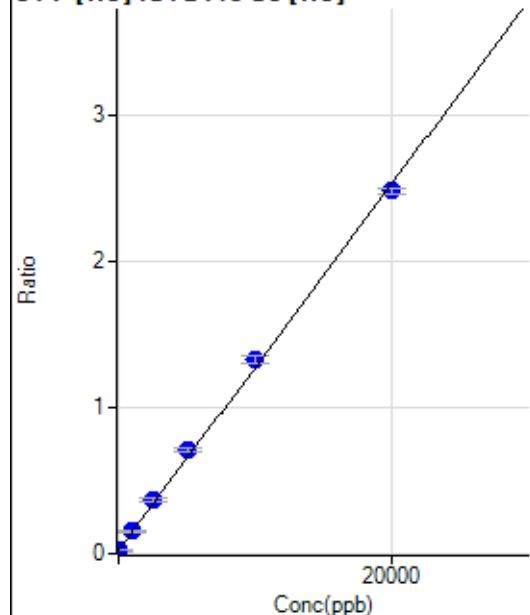
$$DL = 28.6$$

$$BEC = 593.1$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	-19.574	252.78	0.0203	P	13.0
2	☐	0.000	19.574	308.34	0.0252	P	13.1
3	☐	1000.000	1067.301	1975.18	0.1564	P	8.2
4	☐	2500.000	2725.718	4514.73	0.3640	P	8.4
5	☐	5000.000	5517.194	8864.01	0.7136	P	4.5
6	☐	10000.000	10410.501	16871.35	1.3262	P	4.0
7	☐	20000.000	19633.871	33834.38	2.4811	P	1.3
8	☐			308.34	0.0253	P	7.8

$$y = 1.2521E-004 * x + 0.0228$$

$$R = 0.9993$$

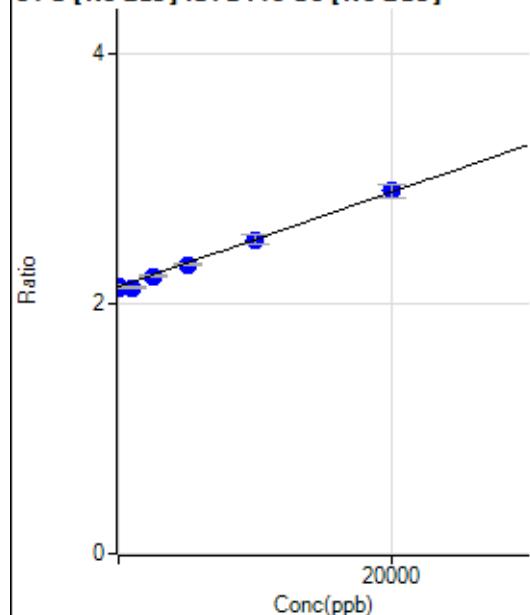
$$DL = 71.27$$

$$BEC = 181.8$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	-236.539	573464.96	2.1249	P	0.8
2	☐	0.000	236.539	573230.79	2.1428	P	0.9
3	☐	1000.000	-255.716	581079.10	2.1242	P	0.7
4	☐	2500.000	2239.688	606137.50	2.2185	P	0.3
5	☐	5000.000	4654.036	637905.88	2.3098	P	0.4
6	☐	10000.000	9905.914	701507.74	2.5084	P	3.1
7	☐	20000.000	20228.859	841757.76	2.8986	P	3.4
8	☐			547857.83	2.0200	P	2.8

$$y = 3.7805E-005 * x + 2.1339$$

$$R = 0.9982$$

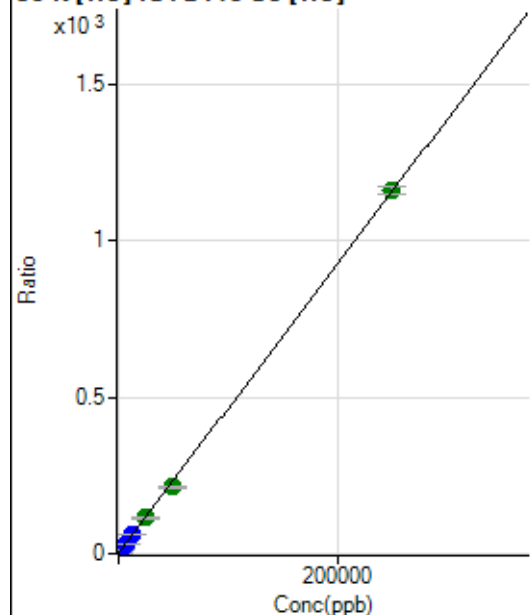
$$DL = 1496$$

$$BEC = 5.644E+04$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	31749.46	2.5520	P	2.1
2	☐	500.000	465.222	57325.52	4.6959	P	1.3
3	☐	2500.000	2516.181	178684.14	14.1474	P	1.1
4	☐	6250.000	6352.251	394822.90	31.8254	P	0.9
5	☐	12500.000	12509.295	747935.44	60.1993	P	3.6
6	☐	25000.000	24157.672	1448814.18	113.8793	A	2.0
7	☐	50000.000	45566.846	2898122.16	212.5406	A	1.1
8	☐	250000.00	250967.75	14139346.50	1,159.1028	A	2.2

$$y = 0.0046 * x + 2.5520$$

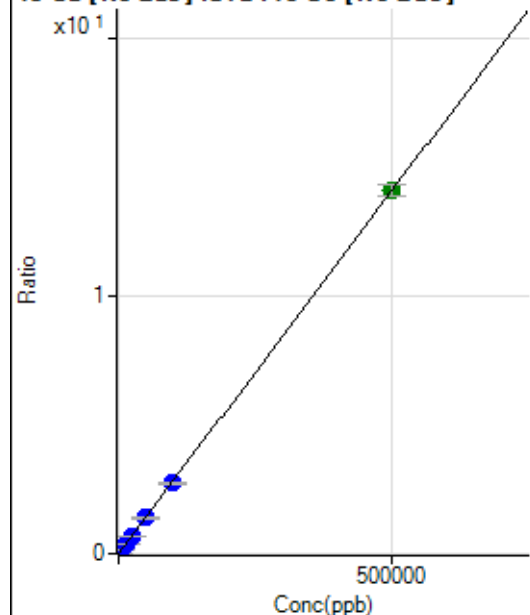
$$R = 0.9998$$

$$DL = 35.22$$

$$BEC = 553.8$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	489.95	0.0018	P	10.2
2	☐	500.000	457.177	3930.48	0.0147	P	0.6
3	☐	5000.000	4965.181	38752.10	0.1417	P	0.8
4	☐	12500.000	12514.595	96798.56	0.3543	P	0.9
5	☐	25000.000	24911.097	194272.94	0.7035	P	0.8
6	☐	50000.000	49666.988	391762.80	1.4007	P	2.7
7	☐	100000.00	97244.457	795966.54	2.7408	P	3.1
8	☐	500000.00	500588.88	3824084.81	14.1014	A	3.3

$$y = 2.8166\text{E-}005 * x + 0.0018$$

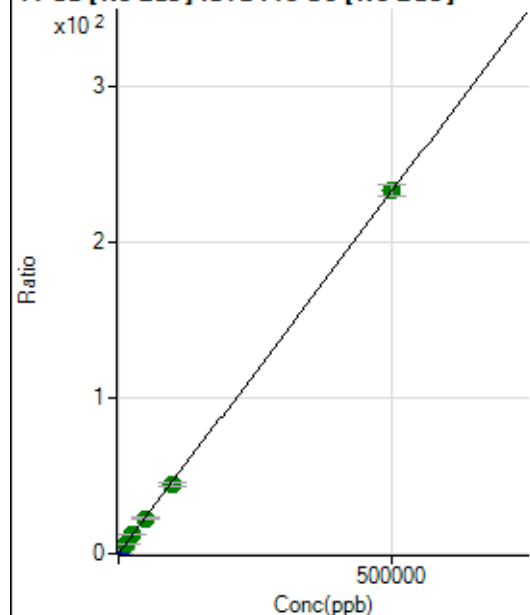
$$R = 1.0000$$

$$DL = 19.72$$

$$BEC = 64.47$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	35210.69	0.1305	P	0.3
2	☐	500.000	472.736	93619.55	0.3500	P	1.5
3	☐	5000.000	5040.585	675979.47	2.4712	P	0.3
4	☐	12500.000	12550.365	1627870.10	5.9585	A	3.6
5	☐	25000.000	25085.812	3253105.50	11.7795	A	0.9
6	☐	50000.000	48716.515	6364918.09	22.7529	A	2.4
7	☐	100000.00	95416.969	12905116.46	44.4391	A	3.4
8	☐	500000.00	501039.02	63138852.33	232.7972	A	3.1

$$y = 4.6437\text{E-}004 * x + 0.1305$$

$$R = 1.0000$$

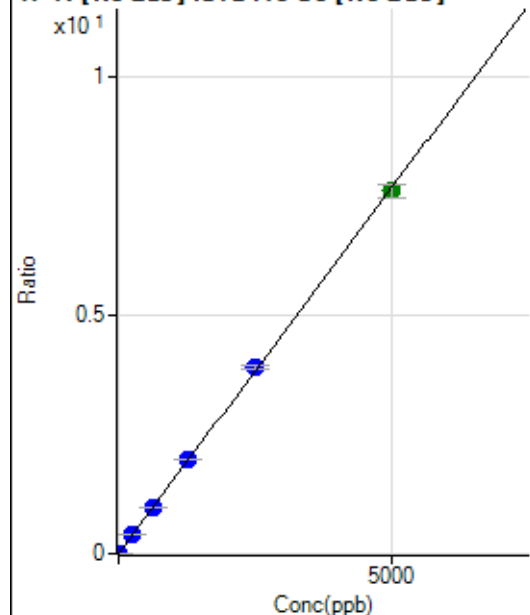
$$DL = 2.107$$

$$BEC = 281$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	425.02	0.0016	P	17.5
2	☐	5.000	4.805	2389.16	0.0089	P	5.3
3	☐	250.000	253.287	106500.00	0.3893	P	1.4
4	☐	625.000	641.951	268926.55	0.9843	P	0.3
5	☐	1250.000	1283.902	543222.01	1.9670	P	1.3
6	☐	2500.000	2555.123	1094528.07	3.9131	P	2.5
7	☐	5000.000	4961.680	2206096.88	7.5972	A	3.9
8	☐			655.59	0.0024	P	4.7

$$y = 0.0015 * x + 0.0016$$

$$R = 0.9999$$

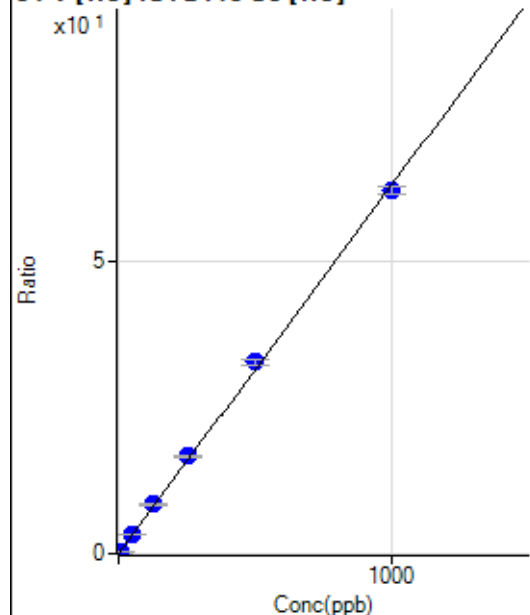
$$DL = 0.5386$$

$$BEC = 1.028$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	11.11	0.0009	P	125.1
2	☐	5.000	5.070	3921.69	0.3213	P	2.6
3	☐	50.000	52.677	42054.85	3.3298	P	0.7
4	☐	125.000	133.484	104661.43	8.4363	P	0.9
5	☐	250.000	263.911	207250.54	16.6785	P	3.0
6	☐	500.000	520.805	418676.94	32.9127	P	2.8
7	☐	1000.000	984.925	848586.47	62.2424	P	2.0
8	☐			110.00	0.0090	P	9.9

$$y = 0.0632 * x + 8.9210E-004$$

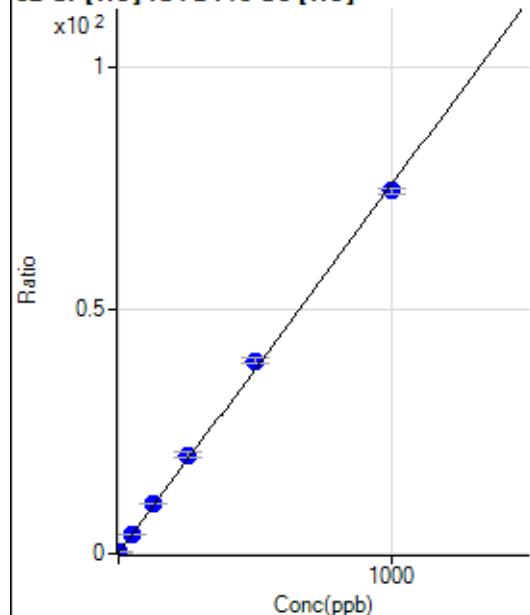
$$R = 0.9995$$

$$DL = 0.05298$$

$$BEC = 0.01412$$

Weight: <None>

Min Conc: 0

52 Cr [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	978.93	0.0787	P	11.1
2	☐	2.000	2.057	2862.54	0.2344	P	1.5
3	☐	50.000	53.463	52123.42	4.1270	P	0.6
4	☐	125.000	134.951	127743.69	10.2974	P	1.5
5	☐	250.000	267.642	252752.03	20.3450	P	4.0
6	☐	500.000	521.351	503168.62	39.5564	P	3.1
7	☐	1000.000	983.497	1016429.88	74.5511	P	1.8
8	☐			2053.50	0.1683	P	3.1

$$y = 0.0757 * x + 0.0787$$

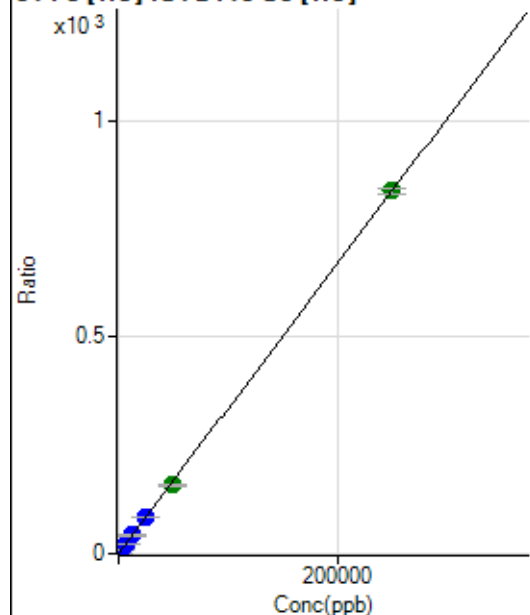
$$R = 0.9995$$

$$DL = 0.3453$$

$$BEC = 1.039$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	429.64	0.0345	P	15.6
2	☐	50.000	53.066	2587.32	0.2120	P	7.1
3	☐	2500.000	2549.183	108108.02	8.5598	P	1.2
4	☐	6250.000	6507.216	270418.10	21.7967	P	0.3
5	☐	12500.000	12776.550	531353.39	42.7634	P	3.2
6	☐	25000.000	25118.290	1068874.09	84.0381	P	4.1
7	☐	50000.000	47183.782	2151713.98	157.8322	A	2.3
8	☐	250000.00	250530.66	10220867.71	837.8895	A	1.9

$$y = 0.0033 * x + 0.0345$$

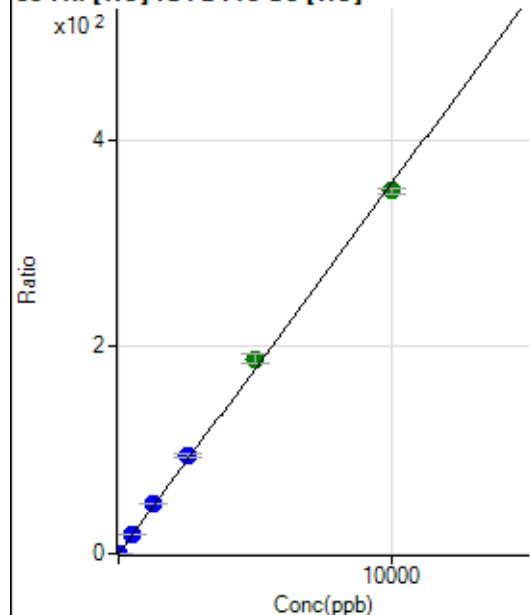
$$R = 0.9999$$

$$DL = 4.826$$

$$BEC = 10.32$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	114.45	0.0092	P	8.9
2	☐	1.000	0.946	525.57	0.0430	P	12.8
3	☐	500.000	533.392	241075.92	19.0877	P	0.5
4	☐	1250.000	1353.135	600536.93	48.4084	P	1.3
5	☐	2500.000	2662.391	1183163.27	95.2380	P	4.0
6	☐	5000.000	5271.635	2398236.65	188.5658	A	4.3
7	☐	10000.000	9809.024	4783826.42	350.8599	A	1.5
8	☐			3100.36	0.2542	P	3.5

$$y = 0.0358 * x + 0.0092$$

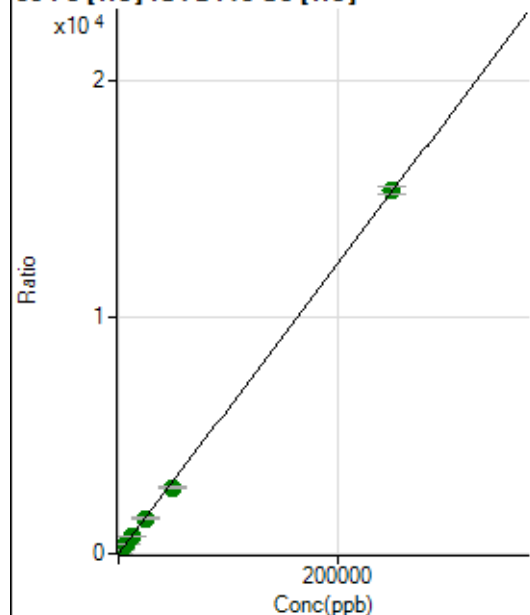
$$R = 0.9993$$

$$DL = 0.06836$$

$$BEC = 0.2571$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	3350.44	0.2693	P	2.6
2	☐	50.000	49.531	40257.06	3.2986	P	3.4
3	☐	2500.000	2507.789	1940499.64	153.6437	A	0.9
4	☐	6250.000	6246.792	4742864.63	382.3182	A	1.4
5	☐	12500.000	12382.598	9412446.04	757.5792	A	3.6
6	☐	25000.000	24354.785	18948723.80	1,489.7887	A	3.8
7	☐	50000.000	45726.904	38134210.58	2,796.8906	A	1.6
8	☐	250000.00	250925.01	187196217.1	15,346.644	A	2.1

$$y = 0.0612 * x + 0.2693$$

$$R = 0.9998$$

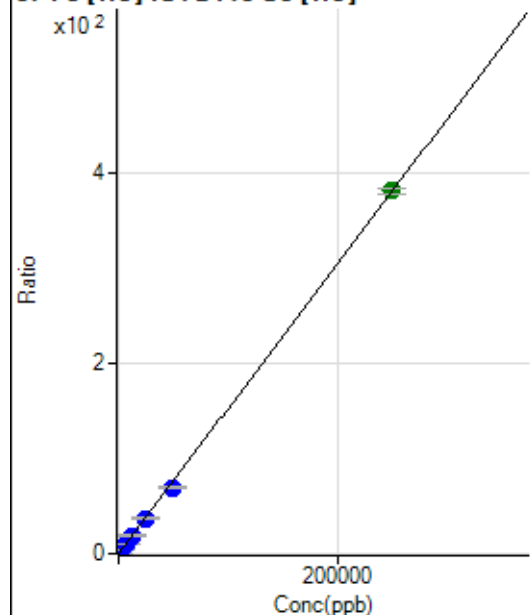
$$DL = 0.3383$$

$$BEC = 4.403$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	207.41	0.0167	P	26.5
2	☐	50.000	40.764	959.31	0.0786	P	6.5
3	☐	2500.000	2505.052	48281.71	3.8229	P	1.5
4	☐	6250.000	6322.028	119380.26	9.6224	P	0.5
5	☐	12500.000	12486.921	235975.36	18.9894	P	2.7
6	☐	25000.000	24505.462	473831.59	37.2505	P	3.3
7	☐	50000.000	45801.813	949080.05	69.6083	P	1.4
8	☐	250000.00	250887.89	4650376.49	381.2179	A	1.7

$$y = 0.0015 * x + 0.0167$$

$$R = 0.9998$$

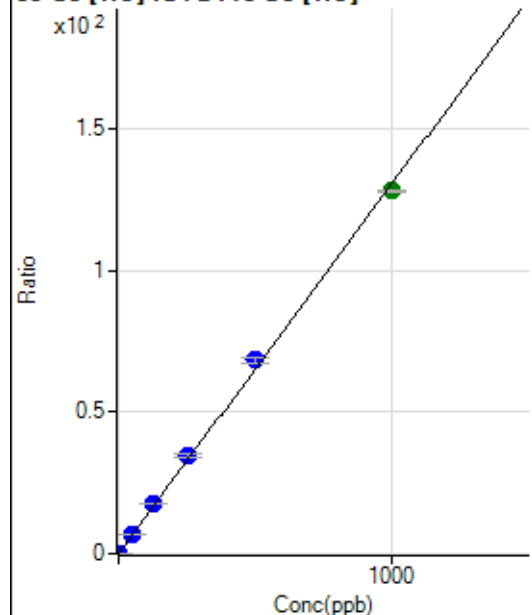
$$DL = 8.713$$

$$BEC = 10.96$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	50.00	0.0040	P	30.4
2	☐	1.000	1.004	1649.00	0.1351	P	4.0
3	☐	50.000	53.671	88569.14	7.0126	P	0.5
4	☐	125.000	136.071	220492.89	17.7726	P	0.3
5	☐	250.000	267.455	433980.53	34.9291	P	3.6
6	☐	500.000	523.607	869781.35	68.3783	P	3.2
7	☐	1000.000	982.265	1749203.01	128.2712	A	0.8
8	☐			2919.22	0.2394	P	3.3

$$y = 0.1306 * x + 0.0040$$

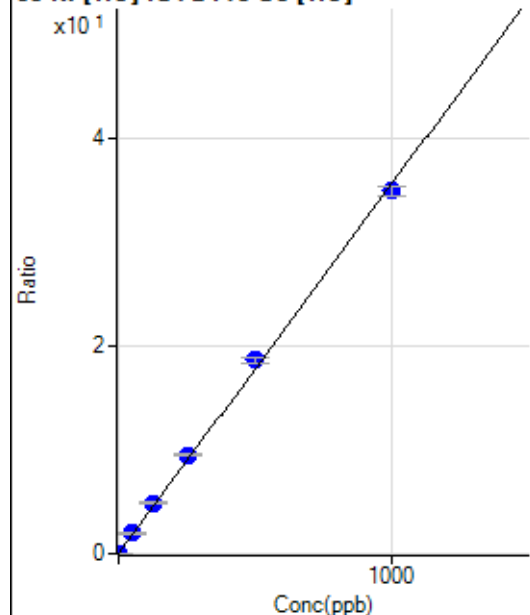
$$R = 0.9994$$

$$DL = 0.02808$$

$$BEC = 0.03076$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	106.67	0.0086	P	14.6
2	☐	1.000	1.159	608.91	0.0499	P	5.1
3	☐	50.000	54.442	24616.88	1.9490	P	0.6
4	☐	125.000	137.293	60812.61	4.9021	P	2.0
5	☐	250.000	267.219	118461.39	9.5330	P	2.9
6	☐	500.000	524.331	237830.60	18.6972	P	3.1
7	☐	1000.000	981.771	477133.46	35.0016	P	2.9
8	☐			631.13	0.0517	P	2.2

$$y = 0.0356 * x + 0.0086$$

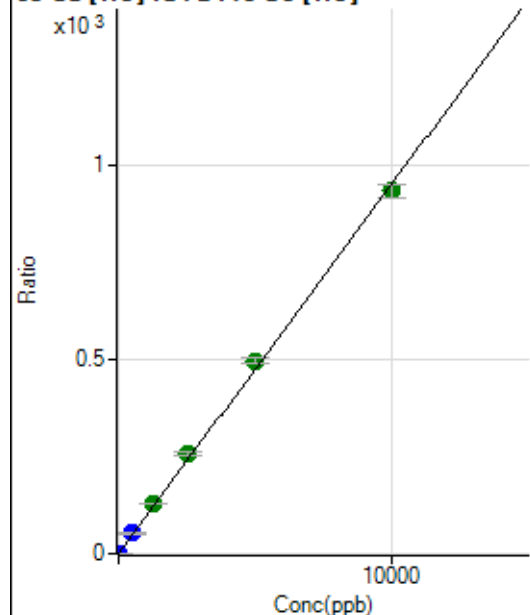
$$R = 0.9994$$

$$DL = 0.1051$$

$$BEC = 0.2406$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	588.91	0.0473	P	6.7
2	☐	2.000	2.173	3092.59	0.2534	P	4.6
3	☐	500.000	548.187	657051.38	52.0237	P	1.0
4	☐	1250.000	1367.189	1608794.51	129.6776	A	0.9
5	☐	2500.000	2697.148	3177944.61	255.7778	A	3.5
6	☐	5000.000	5214.446	6289875.18	494.4559	A	2.8
7	☐	10000.000	9826.432	12700288.14	931.7421	A	3.5
8	☐			4898.67	0.4016	P	3.3

$$y = 0.0948 * x + 0.0473$$

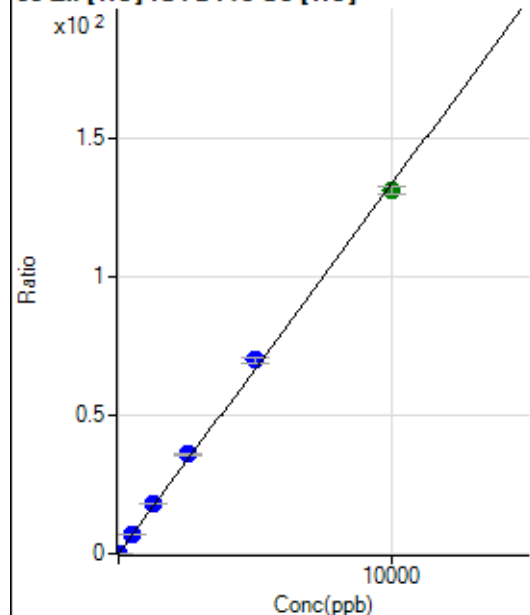
$$R = 0.9994$$

$$DL = 0.1003$$

$$BEC = 0.4993$$

Weight: <None>

Min Conc: 0

66 Zn [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	235.56	0.0189	P	3.3
2	☐	2.000	1.677	504.46	0.0413	P	5.9
3	☐	500.000	539.307	91147.45	7.2168	P	0.5
4	☐	1250.000	1365.717	226362.39	18.2464	P	1.0
5	☐	2500.000	2687.398	445956.99	35.8861	P	2.6
6	☐	5000.000	5233.841	888795.00	69.8721	P	2.9
7	☐	10000.000	9819.800	1787031.24	131.0784	A	2.1
8	☐			2708.07	0.2220	P	3.3

$$y = 0.0133 * x + 0.0189$$

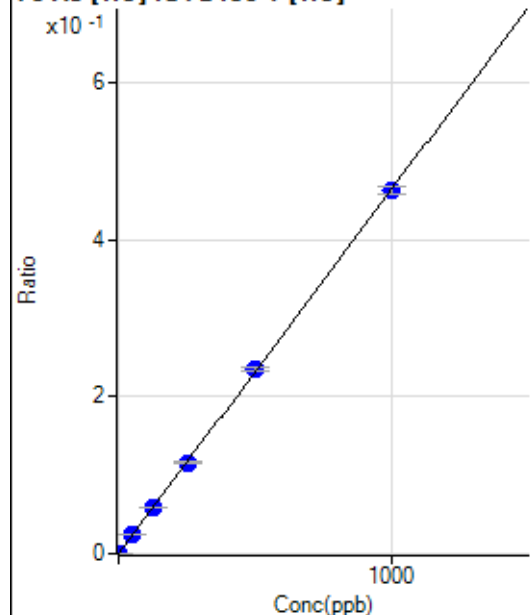
$$R = 0.9994$$

$$DL = 0.1417$$

$$BEC = 1.419$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	8.33	0.0000	P	17.2
2	☐	1.000	1.027	139.02	0.0005	P	6.6
3	☐	50.000	51.419	6742.97	0.0239	P	1.8
4	☐	125.000	127.058	16578.05	0.0589	P	0.3
5	☐	250.000	248.664	32945.91	0.1153	P	1.9
6	☐	500.000	507.692	66503.85	0.2354	P	1.5
7	☐	1000.000	996.160	134167.48	0.4619	P	2.1
8	☐			52.34	0.0002	P	22.7

$$y = 4.6367E-004 * x + 2.8440E-005$$

$$R = 1.0000$$

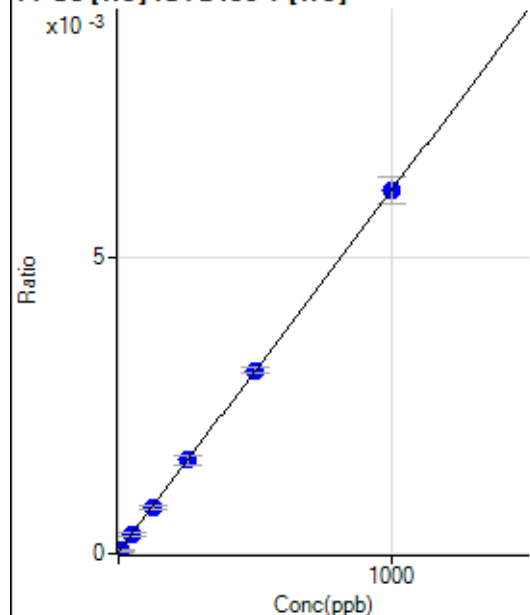
$$DL = 0.03157$$

$$BEC = 0.06134$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	10.00	0.0000	P	116.0
2	☐	5.000	2.988	14.44	0.0001	P	36.5
3	☐	50.000	47.216	91.11	0.0003	P	12.8
4	☐	125.000	120.618	216.67	0.0008	P	9.6
5	☐	250.000	254.087	452.24	0.0016	P	10.4
6	☐	500.000	502.209	875.60	0.0031	P	3.4
7	☐	1000.000	998.571	1779.02	0.0061	P	7.5
8	☐			3.33	0.0000	P	3.8

$$y = 6.1031\text{E-}006 * x + 3.4341\text{E-}005$$

$$R = 1.0000$$

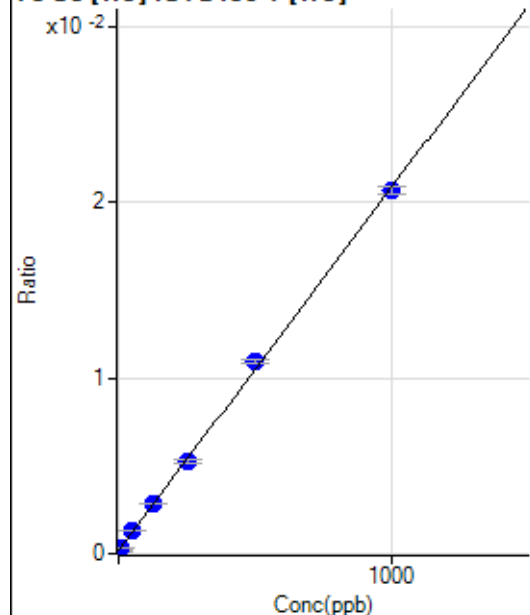
$$DL = 19.59$$

$$BEC = 5.627$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	51.01	0.0002	P	17.7
2	☐	5.000	5.622	80.01	0.0003	P	7.3
3	☐	50.000	54.677	368.71	0.0013	P	6.1
4	☐	125.000	129.274	801.11	0.0028	P	1.8
5	☐	250.000	243.673	1489.23	0.0052	P	4.2
6	☐	500.000	520.327	3089.66	0.0109	P	2.1
7	☐	1000.000	990.647	6002.89	0.0207	P	2.3
8	☐			48.34	0.0002	P	24.9

$$y = 2.0687\text{E-}005 * x + 1.7410\text{E-}004$$

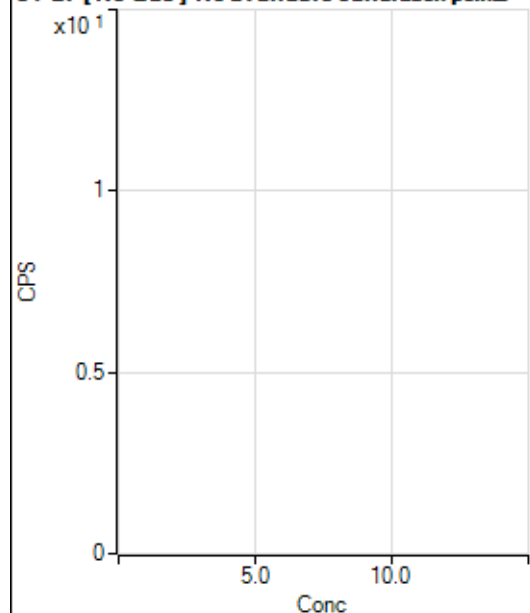
$$R = 0.9997$$

$$DL = 4.464$$

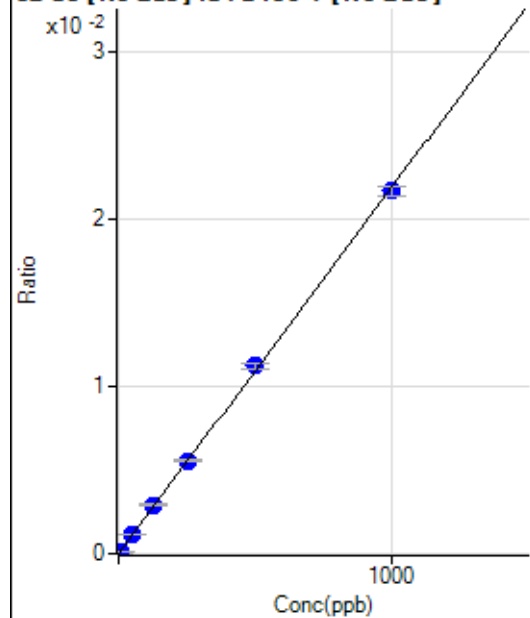
$$BEC = 8.416$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			2506.14		P	5.1
2	☐			2456.09		P	7.0
3	☐			2476.10		P	0.8
4	☐			2439.41		P	9.9
5	☐			2439.40		P	10.6
6	☐			2639.64		P	6.7
7	☐			2529.49		P	6.7
8	☐			2940.01		P	4.0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	9.05	0.0000	P	92.5
2	☐	5.000	4.532	220.79	0.0001	P	42.3
3	☐	50.000	51.346	2429.12	0.0011	P	5.2
4	☐	125.000	132.481	6287.05	0.0029	P	4.7
5	☐	250.000	254.572	12310.81	0.0056	P	1.2
6	☐	500.000	513.029	24666.29	0.0112	P	2.9
7	☐	1000.000	991.342	49999.05	0.0217	P	2.5
8	☐			-8.11	0.0000	P	-256.

$$y = 2.1870\text{E-}005 * x + 3.9573\text{E-}006$$

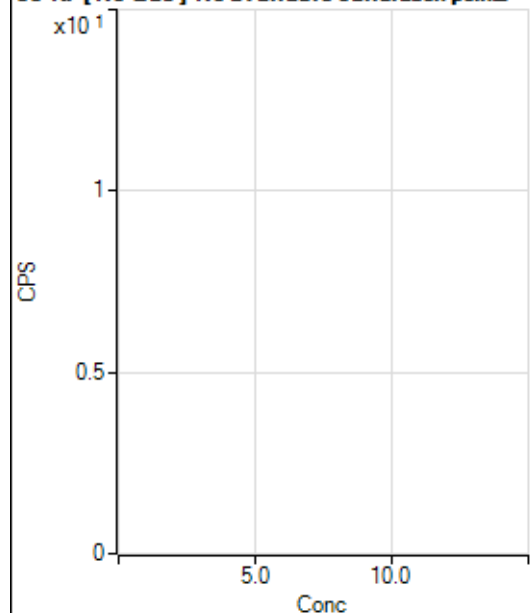
$$R = 0.9998$$

$$DL = 0.5023$$

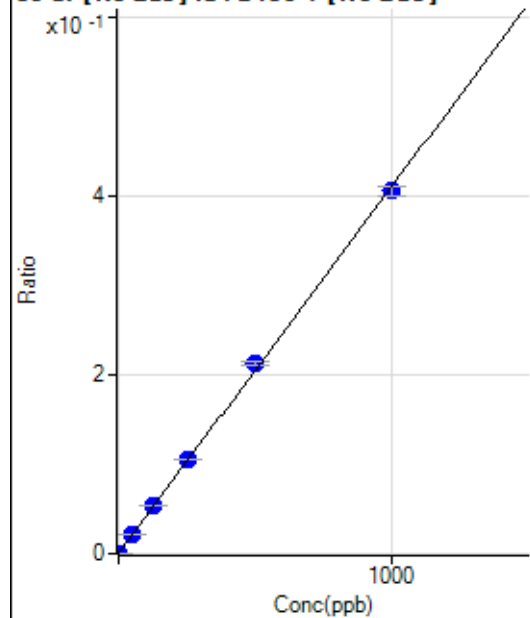
$$BEC = 0.1809$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			555.57		P	1.8
2	☐			572.24		P	11.3
3	☐			566.69		P	15.4
4	☐			550.02		P	6.3
5	☐			592.24		P	6.4
6	☐			556.69		P	11.5
7	☐			577.80		P	10.7
8	☐			612.24		P	7.9

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	802.82	0.0004	P	15.7
2	☐	1.000	1.196	1811.28	0.0008	P	4.0
3	☐	50.000	51.791	46483.51	0.0216	P	2.1
4	☐	125.000	129.262	115477.11	0.0533	P	0.8
5	☐	250.000	256.324	232678.54	0.1053	P	0.9
6	☐	500.000	517.327	466299.92	0.2122	P	1.7
7	☐	1000.000	989.133	934566.95	0.4053	P	2.6
8	☐			6173.75	0.0029	P	4.1

$$y = 4.0945E-004 * x + 3.5287E-004$$

$$R = 0.9998$$

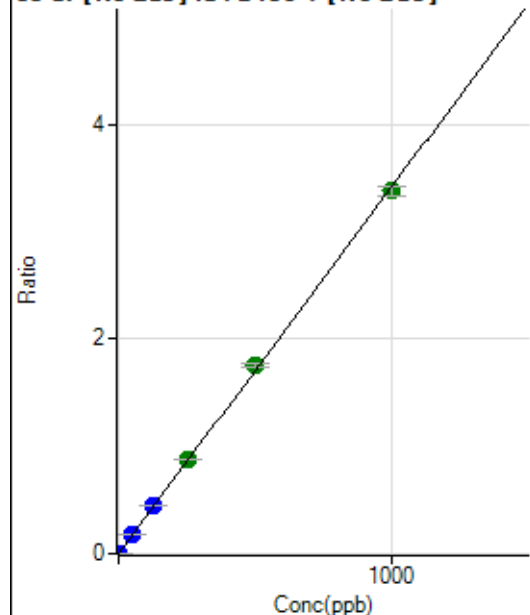
$$DL = 0.4053$$

$$BEC = 0.8618$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	80.56	0.0000	P	25.3
2	☐	1.000	1.008	7477.21	0.0035	P	3.5
3	☐	50.000	52.841	388895.47	0.1804	P	2.0
4	☐	125.000	132.210	977985.93	0.4512	P	0.8
5	☐	250.000	257.383	1940985.72	0.8784	A	0.5
6	☐	500.000	514.455	3858181.03	1.7557	A	2.7
7	☐	1000.000	989.884	7788930.55	3.3782	A	2.4
8	☐			42150.51	0.0195	P	2.6

$$y = 0.0034 * x + 3.5345E-005$$

$$R = 0.9998$$

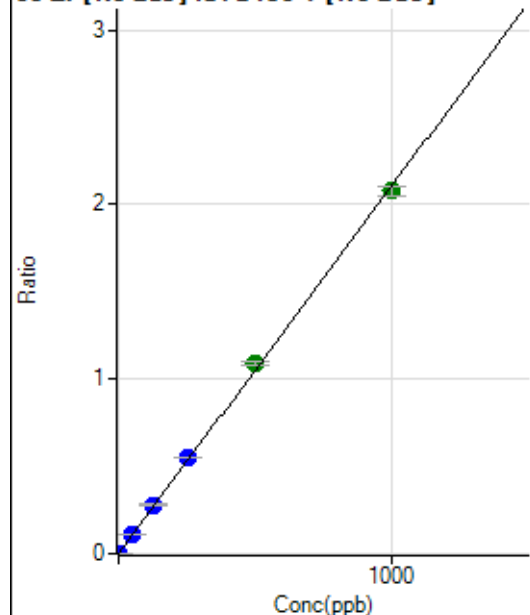
$$DL = 0.007865$$

$$BEC = 0.01036$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	50.00	0.0000	P	43.1
2	☐	1.000	0.960	4389.70	0.0020	P	3.6
3	☐	50.000	52.247	237111.96	0.1100	P	1.7
4	☐	125.000	133.203	607546.66	0.2803	P	1.0
5	☐	250.000	260.890	1213120.81	0.5490	P	0.4
6	☐	500.000	517.108	2391371.61	1.0882	A	2.1
7	☐	1000.000	987.586	4791316.64	2.0782	A	2.7
8	☐			1169.53	0.0005	P	7.1

$$y = 0.0021 * x + 2.1906E-005$$

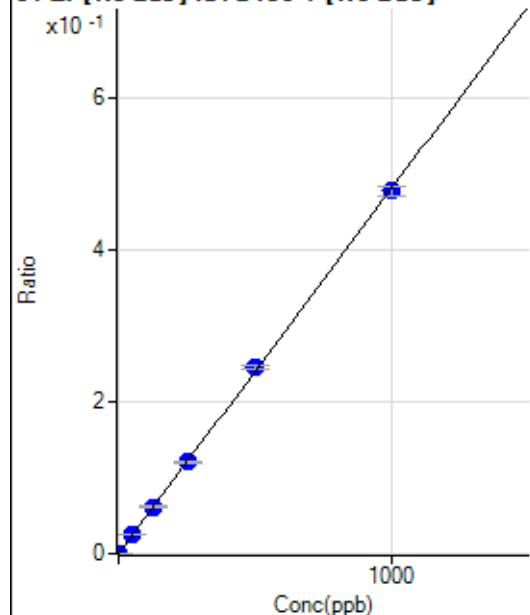
$$R = 0.9997$$

$$DL = 0.01345$$

$$BEC = 0.01041$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	1.000	0.904	933.39	0.0004	P	20.6
3	☐	50.000	51.159	53048.70	0.0246	P	1.3
4	☐	125.000	128.802	134236.94	0.0619	P	1.7
5	☐	250.000	251.201	266910.30	0.1208	P	1.2
6	☐	500.000	510.594	539604.61	0.2455	P	1.9
7	☐	1000.000	993.870	1101860.26	0.4779	P	2.9
8	☐			305.57	0.0001	P	24.5

$$y = 4.8088\text{E-}004 * x + 0.0000\text{E+}000$$

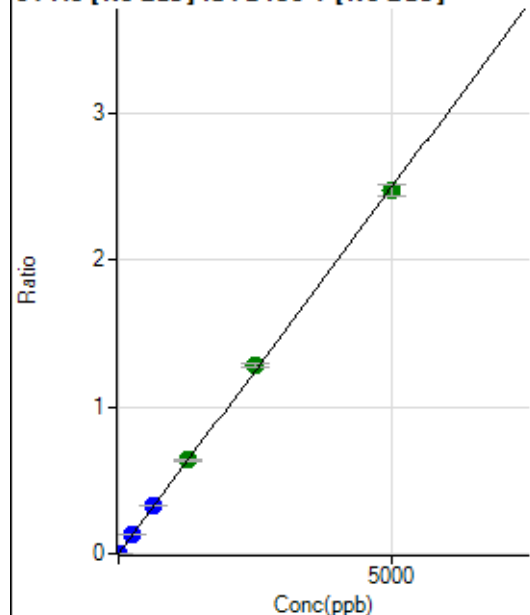
$$R = 0.9999$$

$$DL = 0$$

$$BEC = 0$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	19.44	0.0000	P	66.0
2	☐	5.000	4.752	5114.94	0.0024	P	4.8
3	☐	250.000	262.906	282886.03	0.1312	P	1.2
4	☐	625.000	656.906	710355.34	0.3278	P	2.4
5	☐	1250.000	1283.875	1415448.16	0.6406	A	2.3
6	☐	2500.000	2567.858	2815738.34	1.2813	A	2.1
7	☐	5000.000	4952.969	5697444.87	2.4713	A	3.2
8	☐			1425.11	0.0007	P	11.2

$$y = 4.9896\text{E-}004 * x + 8.5503\text{E-}006$$

$$R = 0.9998$$

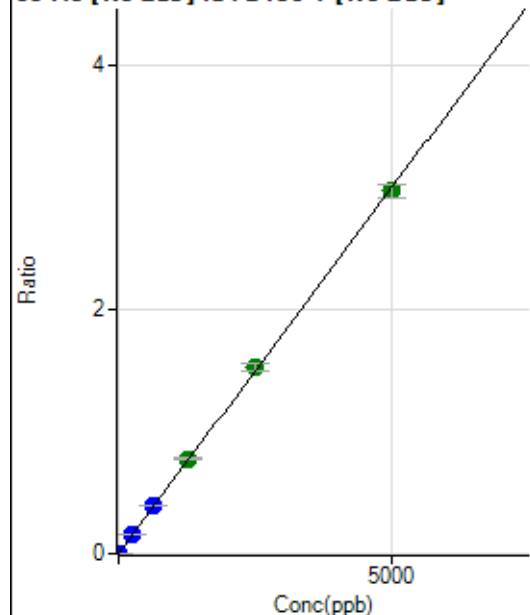
$$DL = 0.03392$$

$$BEC = 0.01714$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	25.00	0.0000	P	32.5
2	☐	5.000	4.997	6465.56	0.0030	P	4.0
3	☐	250.000	263.147	340256.27	0.1578	P	0.7
4	☐	625.000	660.484	858253.56	0.3960	P	1.4
5	☐	1250.000	1290.363	1709408.69	0.7736	A	1.8
6	☐	2500.000	2548.507	3357416.22	1.5279	A	3.3
7	☐	5000.000	4960.563	6856544.12	2.9741	A	3.4
8	☐			1880.73	0.0009	P	8.6

$$y = 5.9954\text{E-}004 * x + 1.0963\text{E-}005$$

$$R = 0.9999$$

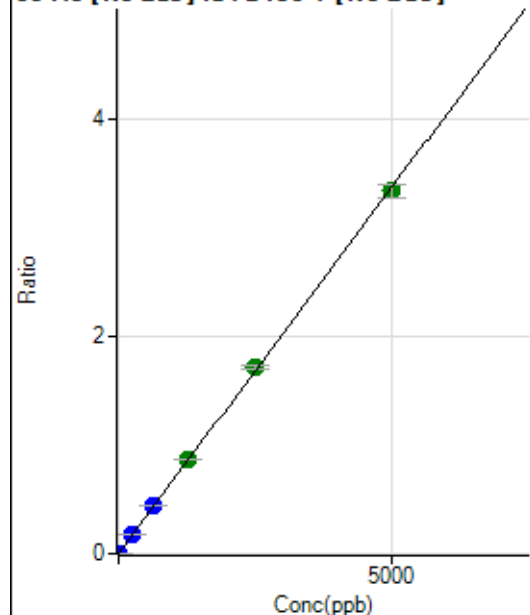
$$DL = 0.01783$$

$$BEC = 0.01829$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	50.00	0.0000	P	73.1
2	☐	5.000	4.767	6943.59	0.0032	P	2.2
3	☐	250.000	260.499	378037.52	0.1753	P	2.3
4	☐	625.000	654.227	954284.97	0.4403	P	1.2
5	☐	1250.000	1283.999	1909351.43	0.8641	A	1.1
6	☐	2500.000	2560.289	3786631.86	1.7230	A	2.2
7	☐	5000.000	4957.178	7690553.82	3.3361	A	3.5
8	☐			2447.52	0.0011	P	11.7

$$y = 6.7298\text{E-}004 * x + 2.1999\text{E-}005$$

$$R = 0.9999$$

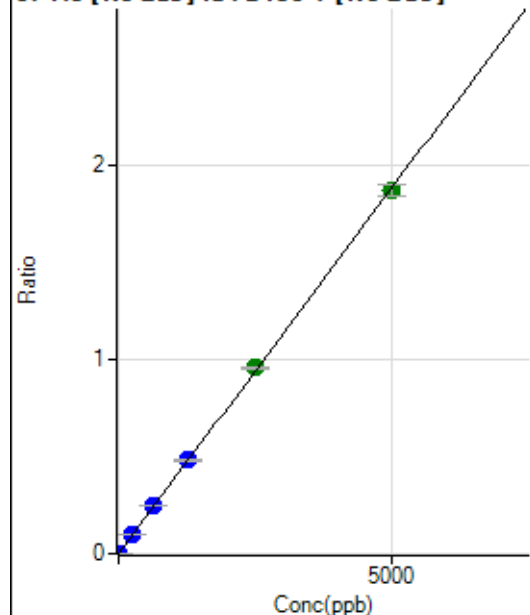
$$DL = 0.0717$$

$$BEC = 0.03269$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	8.33	0.0000	P	100.5
2	☐	5.000	4.919	3975.68	0.0019	P	9.8
3	☐	250.000	261.336	211557.05	0.0981	P	1.5
4	☐	625.000	656.577	534246.90	0.2465	P	0.5
5	☐	1250.000	1278.262	1060300.57	0.4799	P	1.6
6	☐	2500.000	2546.787	2101429.82	0.9561	A	1.1
7	☐	5000.000	4965.027	4297039.51	1.8639	A	3.1
8	☐			1111.18	0.0005	P	17.7

$$y = 3.7541\text{E-}004 * x + 3.6594\text{E-}006$$

$$R = 0.9999$$

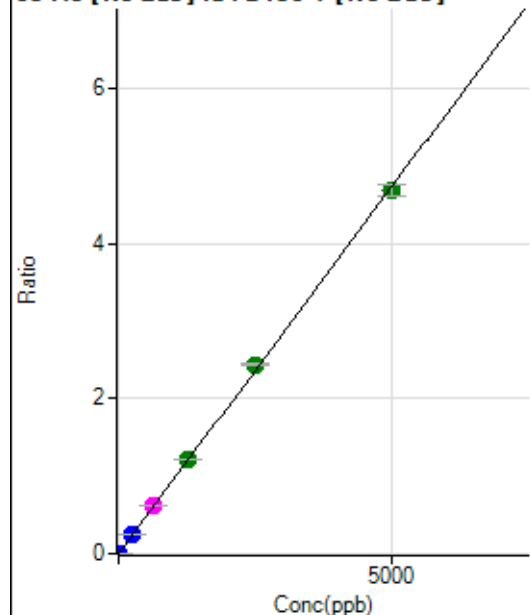
$$DL = 0.0294$$

$$BEC = 0.009748$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	16.67	0.0000	P	0.9
2	☐	5.000	4.853	9887.12	0.0046	P	4.2
3	☐	250.000	261.608	533719.29	0.2475	P	1.4
4	☐	625.000	658.885	1351064.38	0.6234	M	1.5
5	☐	1250.000	1278.300	2672293.09	1.2094	A	0.6
6	☐	2500.000	2577.655	5359893.44	2.4387	A	1.5
7	☐	5000.000	4949.282	10794539.65	4.6824	A	3.3
8	☐			2589.20	0.0012	P	12.0

$$y = 9.4608\text{E-}004 * x + 7.3231\text{E-}006$$

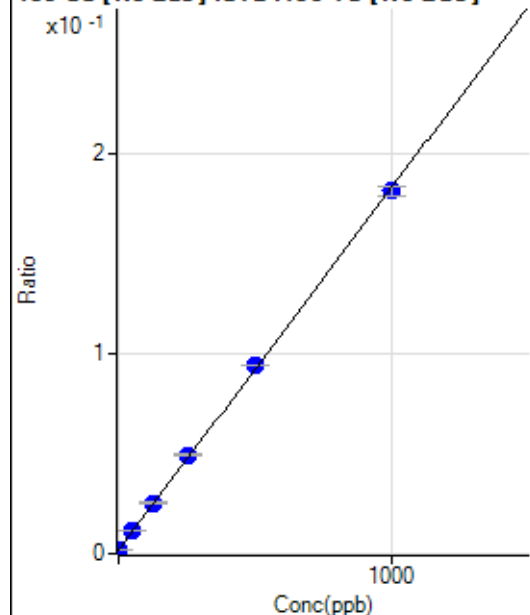
$$R = 0.9998$$

$$DL = 0.000218$$

$$BEC = 0.00774$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	613.92	0.0017	P	18.1
2	☐	1.000	0.432	641.70	0.0018	P	13.2
3	☐	50.000	53.125	4053.48	0.0114	P	3.3
4	☐	125.000	128.516	9003.15	0.0250	P	3.9
5	☐	250.000	261.750	18042.80	0.0492	P	1.7
6	☐	500.000	510.082	35028.65	0.0942	P	0.3
7	☐	1000.000	991.426	69893.99	0.1815	P	2.9
8	☐			666.70	0.0018	P	10.6

$$y = 1.8127E-004 * x + 0.0017$$

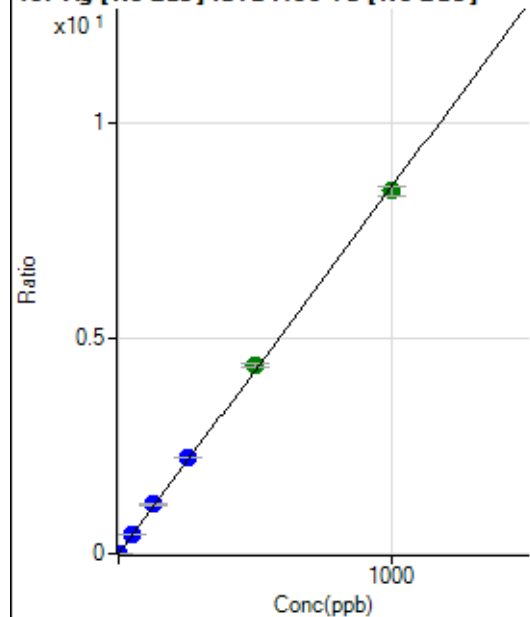
R = 0.9998

DL = 5.213

BEC = 9.578

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	33.34	0.0001	P	66.1
2	☐	1.000	1.079	3283.84	0.0093	P	9.9
3	☐	50.000	53.047	161212.55	0.4520	P	2.0
4	☐	125.000	134.219	411323.12	1.1435	P	1.0
5	☐	250.000	261.480	817110.63	2.2276	P	0.2
6	☐	500.000	513.355	1626025.51	4.3734	A	1.3
7	☐	1000.000	989.148	3245809.51	8.4267	A	3.0
8	☐			1766.83	0.0048	P	1.5

$$y = 0.0085 * x + 9.4161E-005$$

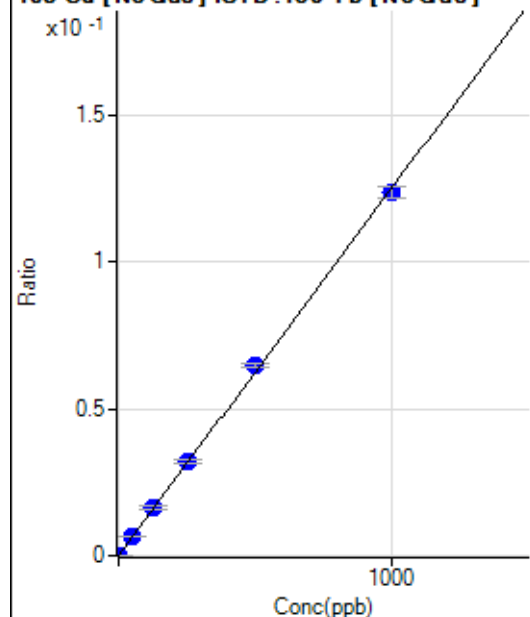
R = 0.9998

DL = 0.02192

BEC = 0.01105

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	8.34	0.0000	P	86.2
2	☐	1.000	1.035	54.17	0.0002	P	50.4
3	☐	50.000	52.494	2351.62	0.0066	P	3.7
4	☐	125.000	131.048	5908.29	0.0164	P	4.5
5	☐	250.000	254.946	11716.24	0.0319	P	4.3
6	☐	500.000	519.665	24196.34	0.0651	P	2.0
7	☐	1000.000	988.051	47647.43	0.1237	P	3.2
8	☐			40.28	0.0001	P	40.8

$$y = 1.2517E-004 * x + 2.3510E-005$$

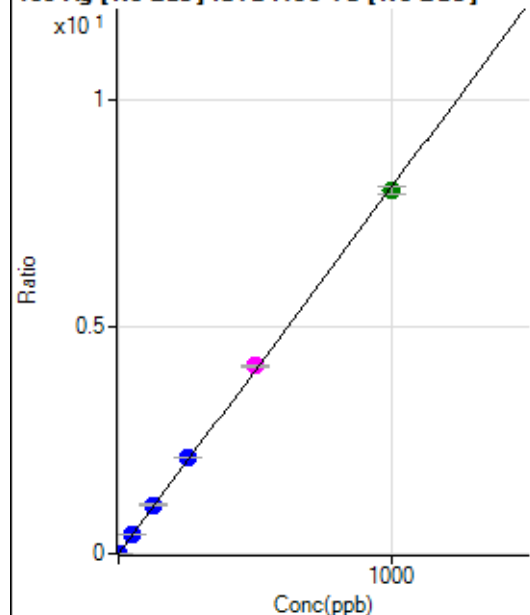
$$R = 0.9997$$

$$DL = 0.4856$$

$$BEC = 0.1878$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	38.89	0.0001	P	44.2
2	☐	1.000	0.968	2803.14	0.0079	P	5.1
3	☐	50.000	53.971	155606.18	0.4363	P	1.1
4	☐	125.000	133.681	388602.71	1.0804	P	1.9
5	☐	250.000	260.651	772658.49	2.1065	P	0.3
6	☐	500.000	512.582	1540109.54	4.1424	M	1.5
7	☐	1000.000	989.763	3081403.91	7.9985	A	2.0
8	☐			1622.36	0.0044	P	6.7

$$y = 0.0081 * x + 1.0976E-004$$

$$R = 0.9998$$

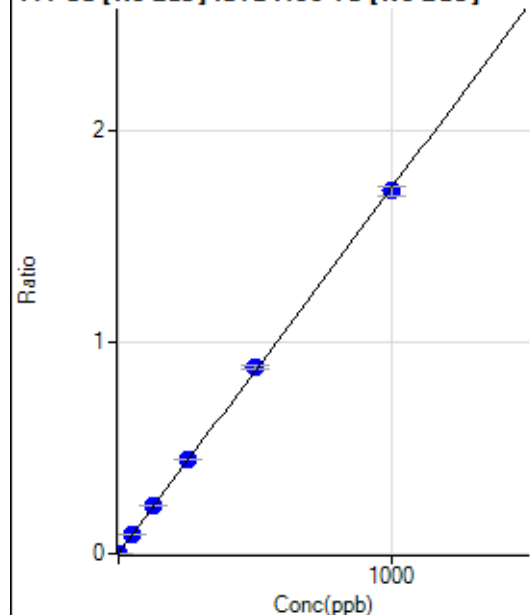
$$DL = 0.018$$

$$BEC = 0.01358$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	428.08	0.0012	P	19.7
2	☐	1.000	1.010	1046.02	0.0030	P	8.8
3	☐	50.000	52.599	32887.58	0.0922	P	3.0
4	☐	125.000	131.793	82452.89	0.2292	P	1.6
5	☐	250.000	256.188	163030.30	0.4445	P	0.4
6	☐	500.000	509.931	328461.57	0.8835	P	1.8
7	☐	1000.000	992.508	661913.19	1.7184	P	2.9
8	☐			694.06	0.0019	P	4.7

$$y = 0.0017 * x + 0.0012$$

$$R = 0.9999$$

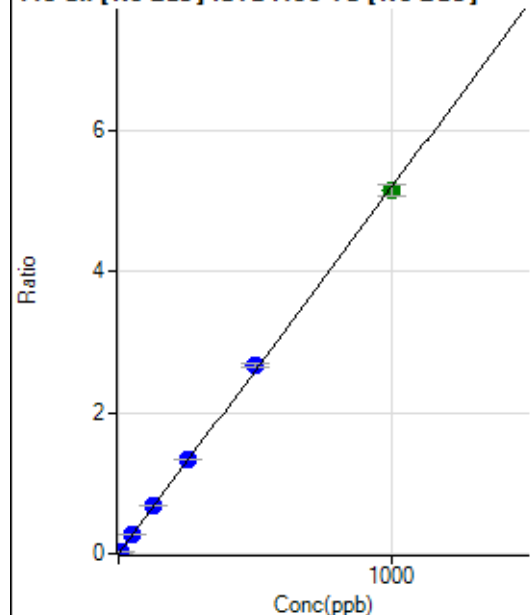
$$DL = 0.4136$$

$$BEC = 0.6997$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	177.78	0.0005	P	10.2
2	☐	5.000	4.807	9006.00	0.0255	P	3.3
3	☐	50.000	51.865	96263.06	0.2699	P	2.2
4	☐	125.000	130.772	244515.78	0.6798	P	1.7
5	☐	250.000	257.564	490887.45	1.3384	P	1.2
6	☐	500.000	513.856	992513.34	2.6696	P	1.8
7	☐	1000.000	990.367	1981638.52	5.1448	A	3.1
8	☐			422.24	0.0011	P	11.6

$$y = 0.0052 * x + 5.0262E-004$$

$$R = 0.9998$$

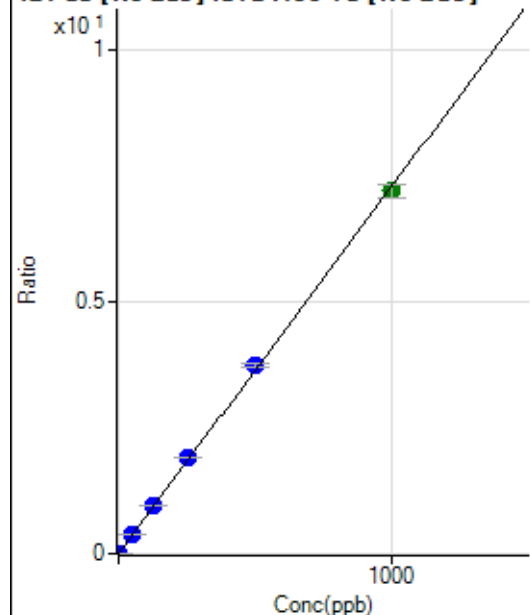
$$DL = 0.02957$$

$$BEC = 0.09676$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	8.33	0.0000	P	0.5
2	☐	2.000	1.931	4989.91	0.0141	P	3.9
3	☐	50.000	52.224	135928.22	0.3811	P	2.3
4	☐	125.000	131.912	346234.03	0.9626	P	1.2
5	☐	250.000	260.569	697406.41	1.9014	P	0.9
6	☐	500.000	515.499	1398475.60	3.7616	P	1.9
7	☐	1000.000	988.633	2778498.80	7.2140	A	3.4
8	☐			1864.08	0.0051	P	5.0

$$y = 0.0073 * x + 2.3543E-005$$

$$R = 0.9997$$

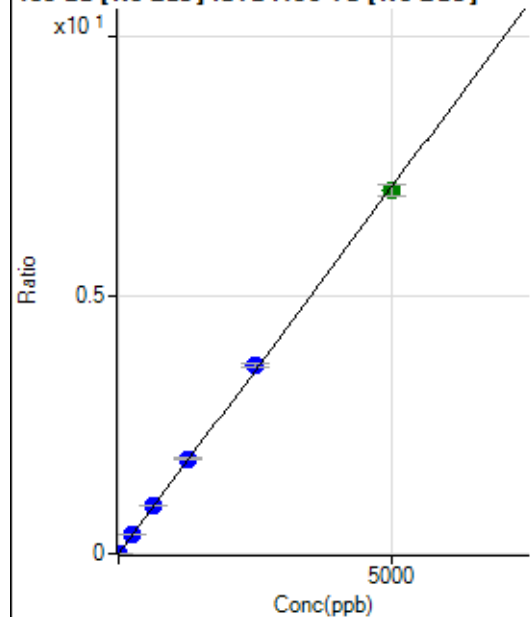
$$DL = 4.643E-05$$

$$BEC = 0.003226$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	19.45	0.0001	P	24.7
2	☐	10.000	9.861	4967.71	0.0141	P	3.5
3	☐	250.000	259.012	131120.81	0.3677	P	2.7
4	☐	625.000	654.794	334303.36	0.9294	P	0.7
5	☐	1250.000	1297.256	675356.98	1.8412	P	0.4
6	☐	2500.000	2568.526	1355284.99	3.6454	P	1.8
7	☐	5000.000	4949.749	2705903.88	7.0249	A	3.0
8	☐			4812.10	0.0131	P	8.2

$$y = 0.0014 * x + 5.4958E-005$$

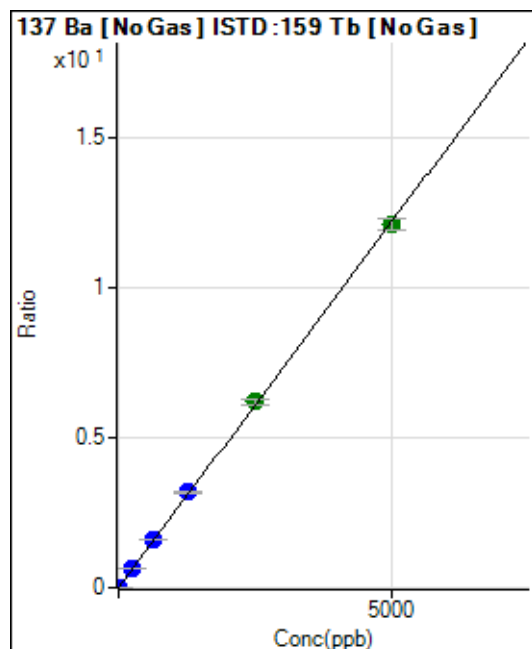
$$R = 0.9998$$

$$DL = 0.02866$$

$$BEC = 0.03872$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	13.89	0.0000	P	91.6
2	☐	10.000	10.309	8886.49	0.0251	P	4.4
3	☐	250.000	263.257	228626.68	0.6410	P	1.5
4	☐	625.000	662.306	579982.65	1.6125	P	1.6
5	☐	1250.000	1304.066	1164461.44	3.1749	P	1.5
6	☐	2500.000	2538.790	2297597.51	6.1809	A	3.2
7	☐	5000.000	4961.762	4652864.04	12.0797	A	3.3
8	☐			8172.12	0.0223	P	0.1

$$y = 0.0024 * x + 3.9143E-005$$

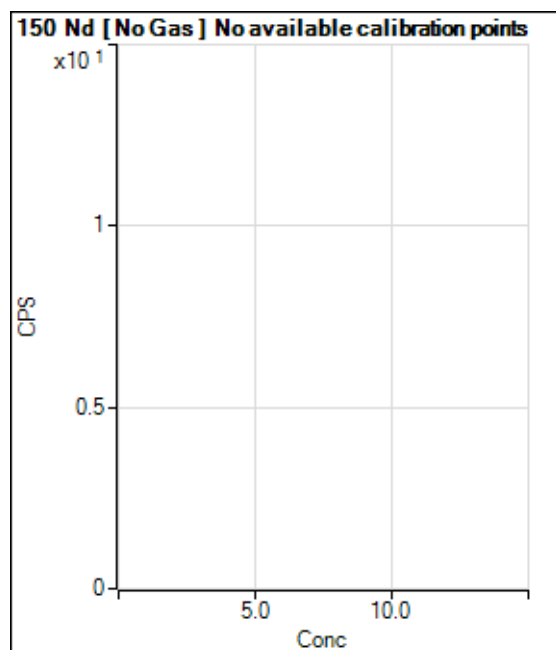
$$R = 0.9999$$

$$DL = 0.04416$$

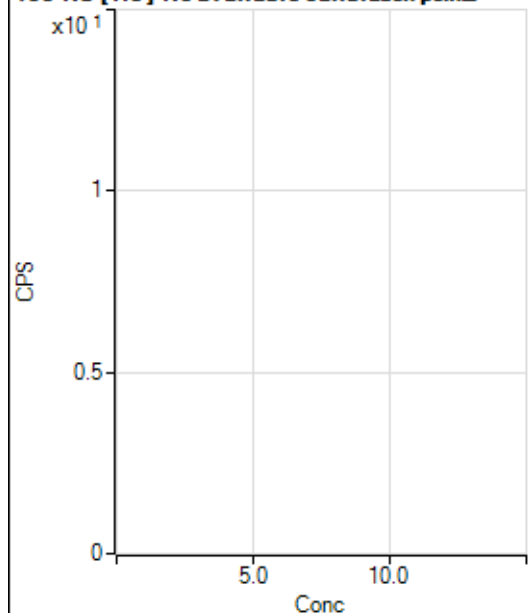
$$BEC = 0.01608$$

Weight: <None>

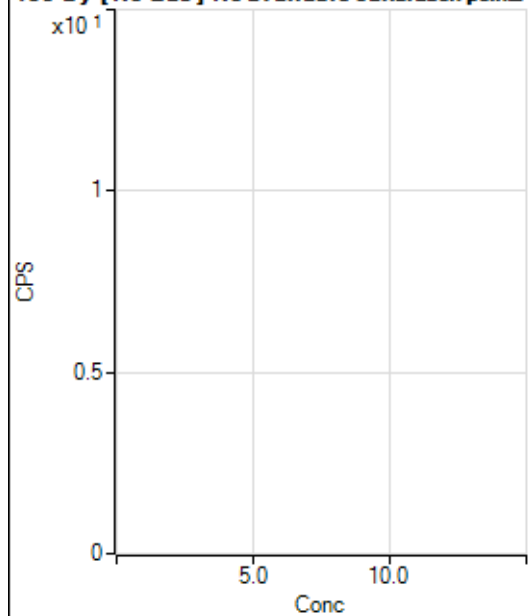
Min Conc: 0



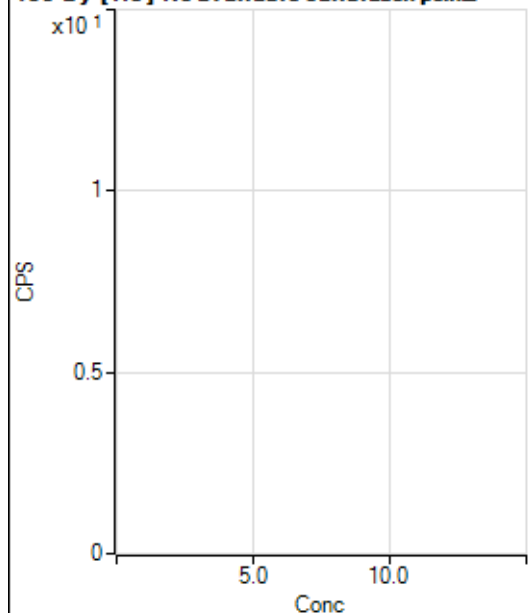
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			4.45		P	86.6
2	☐			4.45		P	86.6
3	☐			11.11		P	91.7
4	☐			35.55		P	10.8
5	☐			17.78		P	21.7
6	☐			46.67		P	24.7
7	☐			84.45		P	37.3
8	☐			8.89		P	86.6

150 Nd [He] No available calibration points

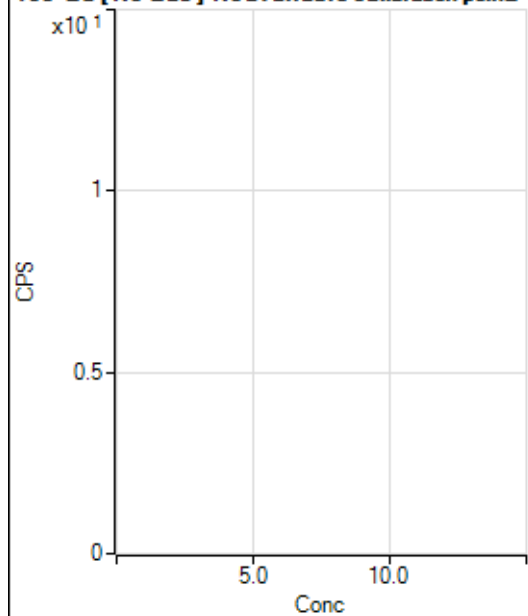
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			1.11		P	173.2
2	☐			0.00		P	
3	☐			1.11		P	173.2
4	☐			2.22		P	173.2
5	☐			4.45		P	86.6
6	☐			8.89		P	21.6
7	☐			4.44		P	43.4
8	☐			3.33		P	100.1

156 Dy [No Gas] No available calibration points

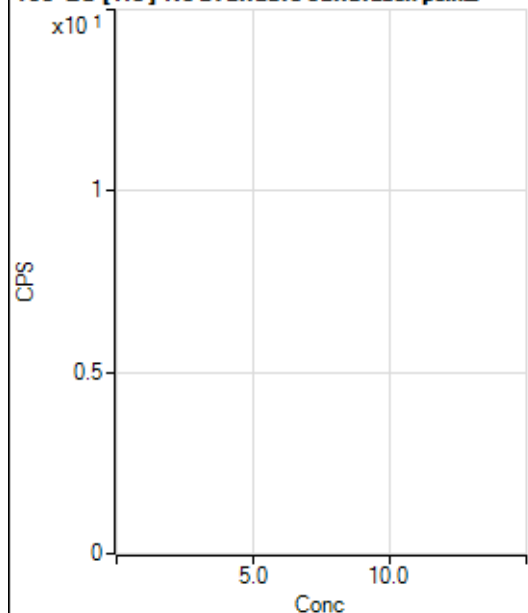
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			8.33		P	100.0
2	☐			0.00		P	
3	☐			8.33		P	0.0
4	☐			13.89		P	91.6
5	☐			19.44		P	65.5
6	☐			50.00		P	28.9
7	☐			55.56		P	70.9
8	☐			138.89		P	15.1

156 Dy [He] No available calibration points

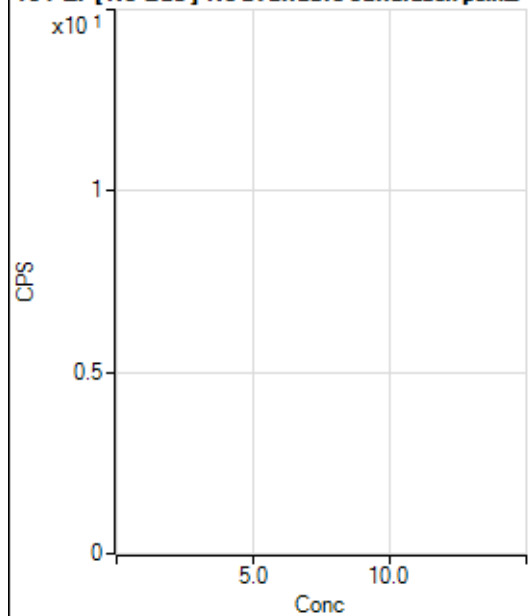
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t.	RSD
1	☐			0.00		P	
2	☐			1.11		P	173.2
3	☐			5.55		P	124.9
4	☐			2.22		P	86.6
5	☐			10.00		P	57.7
6	☐			12.22		P	15.7
7	☐			27.78		P	34.6
8	☐			76.67		P	15.7

160 Gd [No Gas] Noavailable calibration poin_

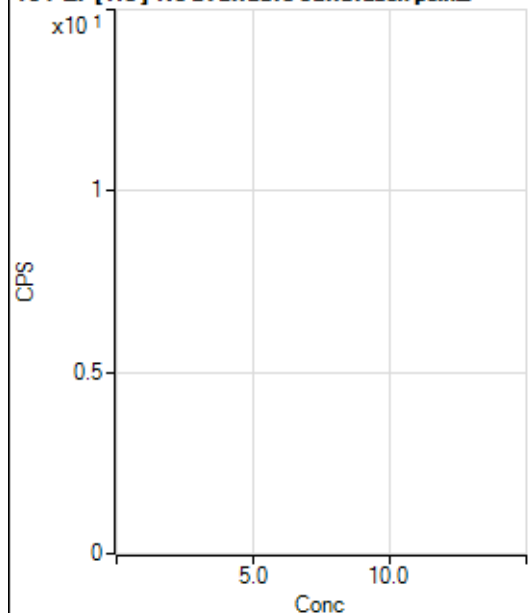
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t.	RSD
1	☐			2.78		P	173.2
2	☐			16.67		P	50.0
3	☐			19.44		P	65.5
4	☐			13.89		P	34.7
5	☐			13.89		P	124.9
6	☐			38.89		P	75.3
7	☐			44.45		P	10.8
8	☐			191.67		P	30.1

160 Gd [He] No available calibration points

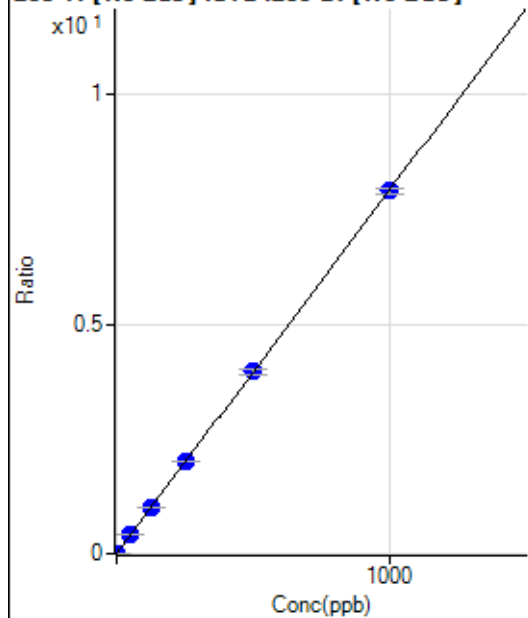
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t.	RSD
1	☐			2.22		P	86.6
2	☐			1.11		P	173.2
3	☐			2.22		P	173.2
4	☐			4.44		P	43.4
5	☐			13.33		P	25.0
6	☐			6.67		P	50.0
7	☐			34.45		P	45.7
8	☐			110.00		P	16.9

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t.	RSD
1	☐			5.55		P	86.6
2	☐			2.78		P	173.2
3	☐			13.89		P	91.6
4	☐			16.67		P	50.0
5	☐			5.55		P	86.6
6	☐			16.67		P	50.0
7	☐			19.44		P	49.5
8	☐			30.56		P	63.0

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			2.22		P	86.6
2	☐			2.22		P	86.6
3	☐			2.22		P	173.2
4	☐			0.00		P	
5	☐			4.44		P	114.6
6	☐			7.78		P	65.5
7	☐			4.45		P	86.6
8	☐			11.11		P	62.5

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	25.00	0.0001	P	33.2
2	☐	1.000	0.969	1411.23	0.0078	P	5.2
3	☐	50.000	50.534	73315.58	0.4003	P	1.0
4	☐	125.000	125.510	186267.05	0.9941	P	1.8
5	☐	250.000	254.866	381659.54	2.0186	P	1.3
6	☐	500.000	501.199	759973.79	3.9694	P	3.6
7	☐	1000.000	998.094	1556444.55	7.9047	P	1.5
8	☐			988.95	0.0055	P	8.8

$$y = 0.0079 * x + 1.3683E-004$$

$$R = 1.0000$$

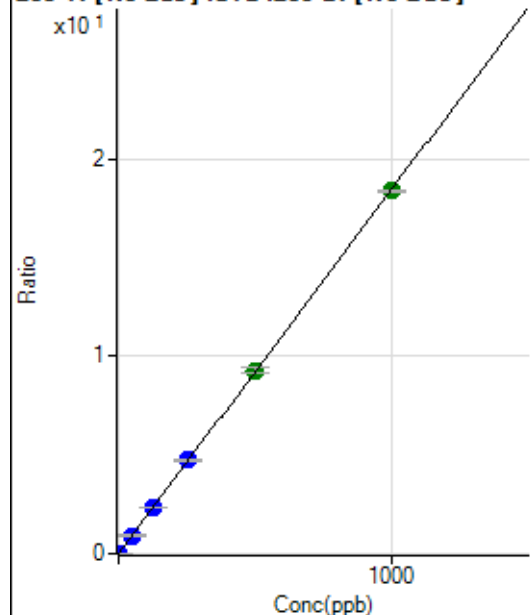
$$DL = 0.01721$$

$$BEC = 0.01728$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	72.23	0.0004	P	37.3
2	☐	1.000	0.962	3281.06	0.0182	P	1.4
3	☐	50.000	50.133	169644.55	0.9264	P	2.3
4	☐	125.000	127.510	441415.86	2.3557	P	1.7
5	☐	250.000	256.354	895426.40	4.7357	P	2.0
6	☐	500.000	503.464	1780488.32	9.3003	A	3.7
7	☐	1000.000	996.359	3624413.19	18.4050	A	0.5
8	☐			2278.06	0.0126	P	17.5

$$y = 0.0185 * x + 3.9556E-004$$

$$R = 1.0000$$

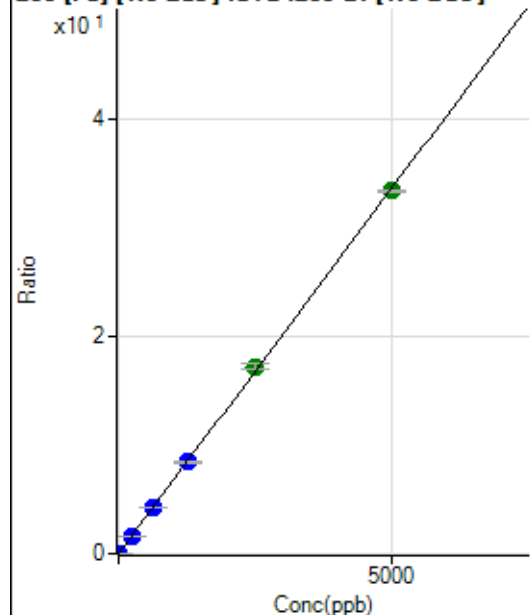
$$DL = 0.02395$$

$$BEC = 0.02141$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	235.19	0.0013	P	11.0
2	☐	1.000	0.851	1266.75	0.0070	P	7.7
3	☐	250.000	248.415	306527.25	1.6738	P	0.3
4	☐	625.000	625.774	789653.88	4.2145	P	1.8
5	☐	1250.000	1252.478	1594622.18	8.4340	P	0.8
6	☐	2500.000	2558.884	3298905.20	17.2298	A	3.0
7	☐	5000.000	4969.921	6589775.78	33.4628	A	0.6
8	☐			1205.63	0.0067	P	12.0

$$y = 0.0067 * x + 0.0013$$

$$R = 0.9999$$

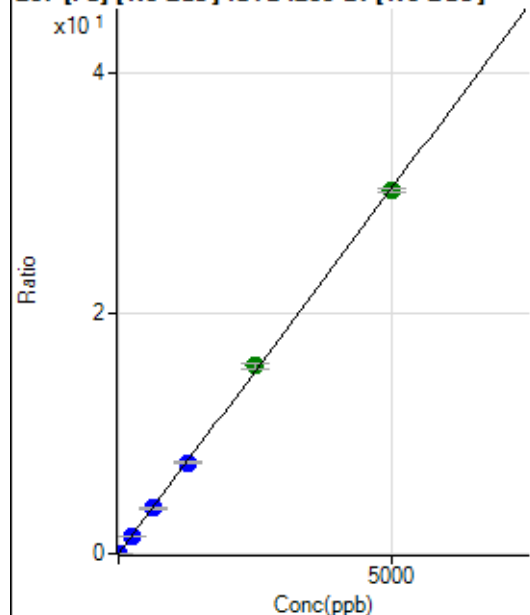
$$DL = 0.0632$$

$$BEC = 0.1913$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	162.97	0.0009	P	18.5
2	☐	1.000	0.960	1216.75	0.0067	P	3.0
3	☐	250.000	245.468	273700.67	1.4947	P	1.6
4	☐	625.000	620.071	707207.49	3.7742	P	1.4
5	☐	1250.000	1247.484	1435472.05	7.5923	P	1.1
6	☐	2500.000	2568.366	2992981.64	15.6303	A	2.4
7	☐	5000.000	4967.289	5952444.93	30.2286	A	1.1
8	☐			1101.92	0.0061	P	2.5

$$y = 0.0061 * x + 8.9167E-004$$

$$R = 0.9999$$

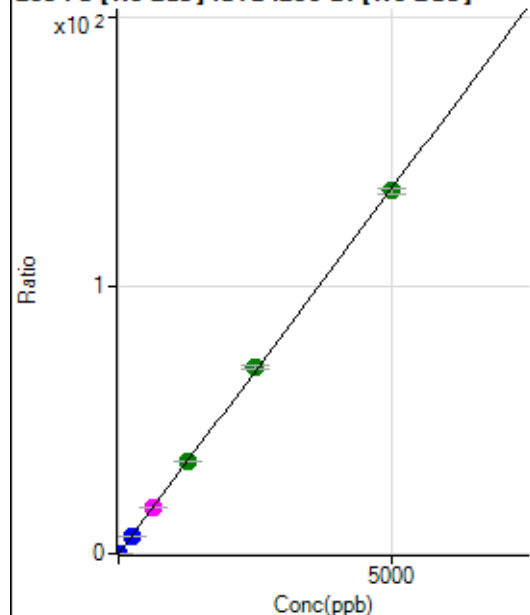
$$DL = 0.08127$$

$$BEC = 0.1465$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	877.81	0.0048	P	2.6
2	☐	1.000	0.890	5246.81	0.0290	P	2.8
3	☐	250.000	247.981	1238090.71	6.7609	P	0.9
4	☐	625.000	623.912	3186056.47	17.0029	M	0.7
5	☐	1250.000	1262.293	6503081.90	34.3953	A	1.4
6	☐	2500.000	2552.598	13317548.27	69.5489	A	2.5
7	☐	5000.000	4970.865	26667356.10	135.4332	A	1.7
8	☐			4928.24	0.0272	P	0.8

$$y = 0.0272 * x + 0.0048$$

$$R = 0.9999$$

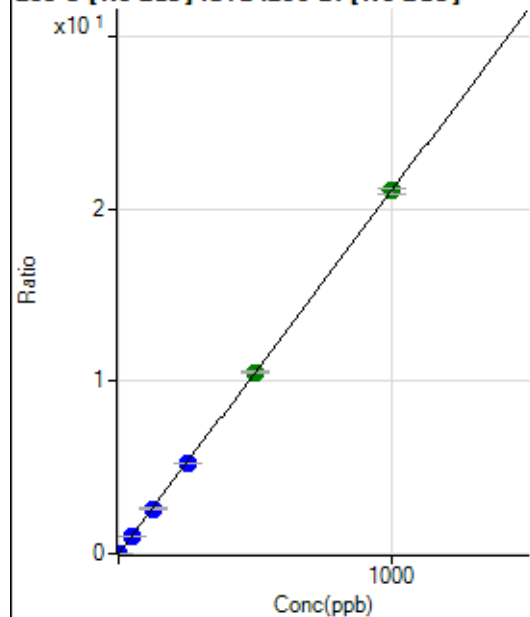
$$DL = 0.01386$$

$$BEC = 0.1764$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	8.33	0.0000	P	99.8
2	☐	1.000	0.887	3378.33	0.0187	P	2.2
3	☐	50.000	48.646	187426.39	1.0234	P	1.0
4	☐	125.000	124.066	489066.83	2.6101	P	1.3
5	☐	250.000	250.184	995150.33	5.2633	P	0.9
6	☐	500.000	500.473	2016499.50	10.5287	A	1.4
7	☐	1000.000	999.902	4141841.63	21.0355	A	1.8
8	☐			380.57	0.0021	P	3.7

$$y = 0.0210 * x + 4.5628E-005$$

$$R = 1.0000$$

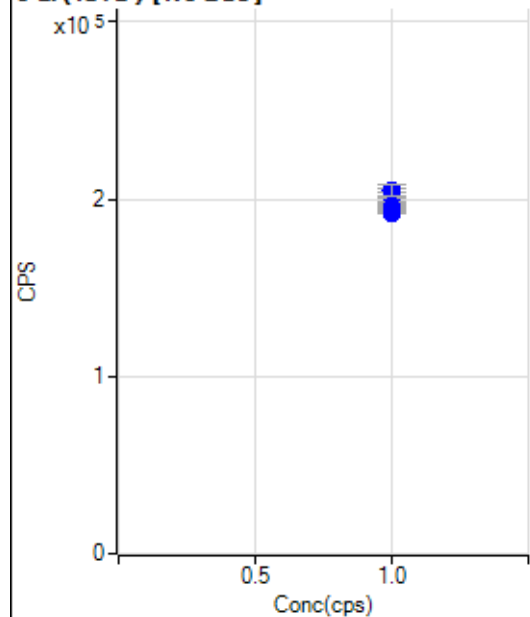
$$DL = 0.006494$$

$$BEC = 0.002169$$

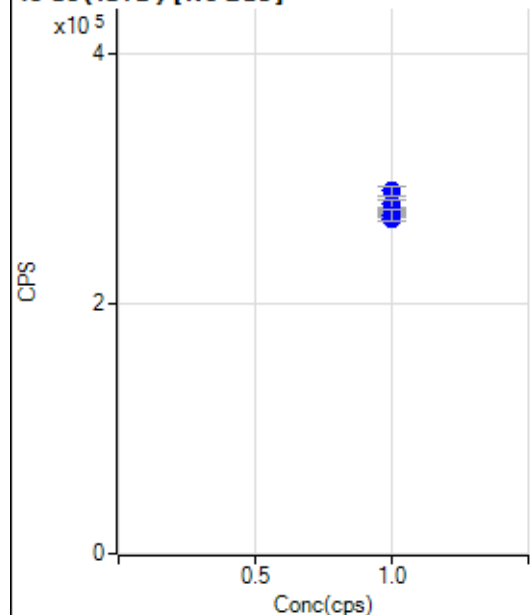
Weight: <None>

Min Conc: 0

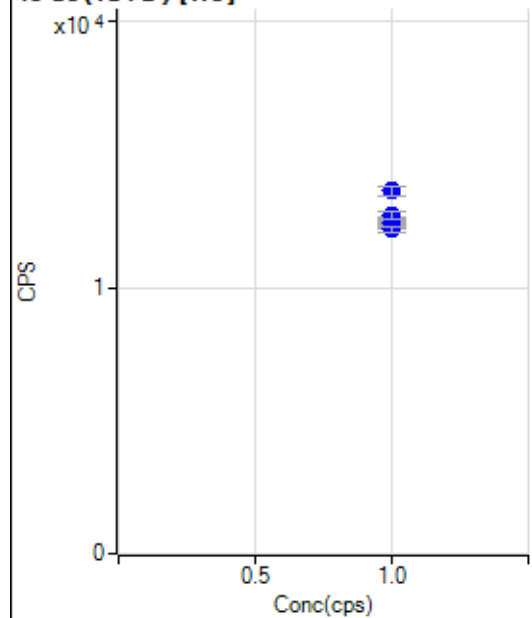
6 Li (ISTD) [No Gas]



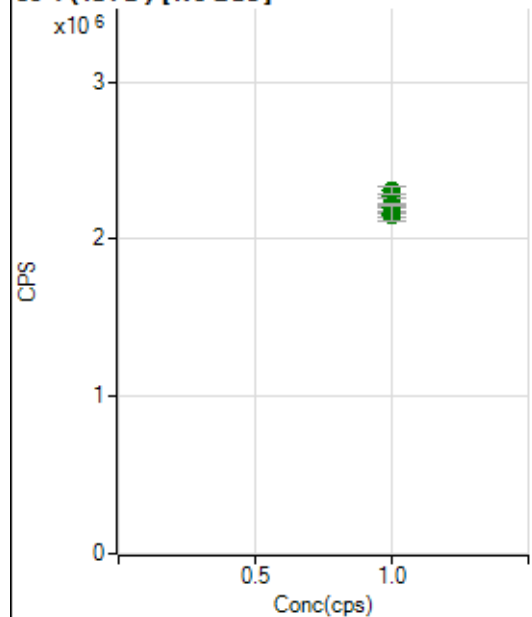
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		194646.94		P	0.9
2	☐	1.000		192119.37		P	0.5
3	☐	1.000		194280.65		P	0.1
4	☐	1.000		196435.84		P	0.4
5	☐	1.000		198335.86		P	0.4
6	☐	1.000		201321.61		P	0.8
7	☐	1.000		204534.32		P	1.0
8	☐	1.000		204625.61		P	3.2

45 Sc (ISTD) [No Gas]

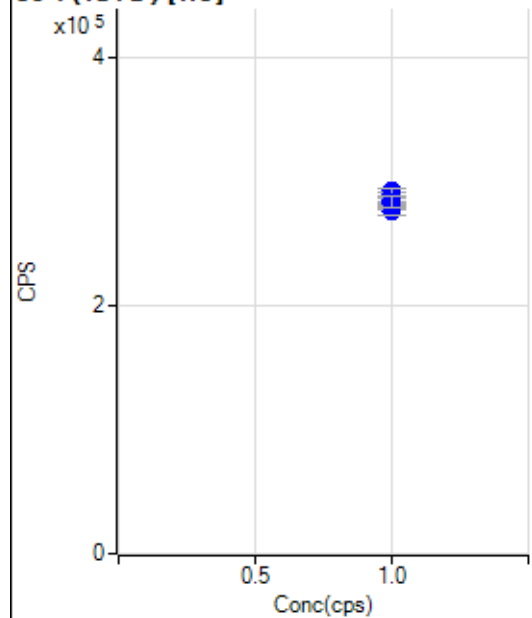
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		269883.50		P	0.6
2	☐	1.000		267519.32		P	1.1
3	☐	1.000		273549.23		P	0.3
4	☐	1.000		273217.71		P	0.5
5	☐	1.000		276176.60		P	0.7
6	☐	1.000		279820.93		P	2.7
7	☐	1.000		290579.28		P	2.7
8	☐	1.000		271404.01		P	3.7

45 Sc (ISTD) [He]

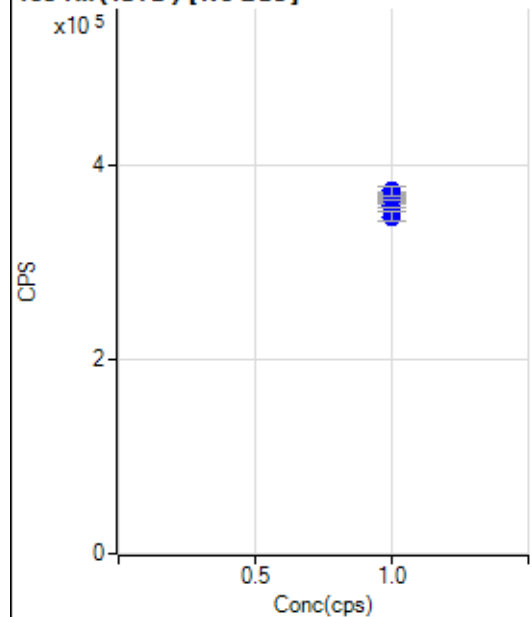
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		12442.19		P	0.6
2	☐	1.000		12209.72		P	2.0
3	☐	1.000		12630.08		P	0.4
4	☐	1.000		12406.57		P	0.9
5	☐	1.000		12434.35		P	3.4
6	☐	1.000		12725.72		P	2.2
7	☐	1.000		13637.64		P	2.3
8	☐	1.000		12200.82		P	1.7

89 Y (ISTD) [No Gas]

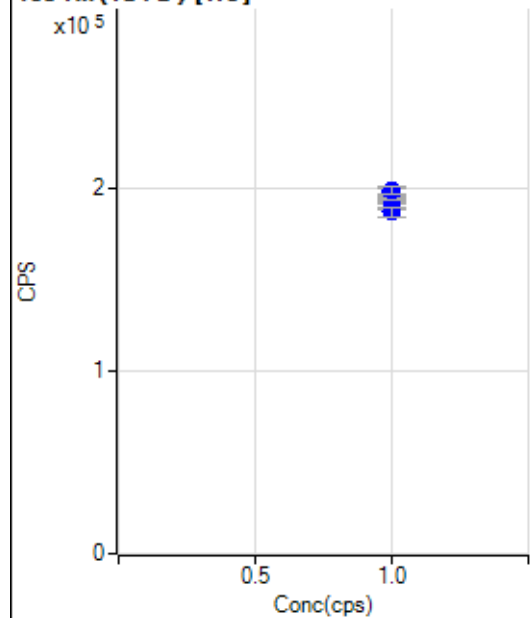
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2276482.31		A	0.9
2	☐	1.000		2150042.40		A	1.3
3	☐	1.000		2156671.60		A	1.8
4	☐	1.000		2167478.73		A	0.8
5	☐	1.000		2209673.32		A	0.6
6	☐	1.000		2198237.38		A	2.0
7	☐	1.000		2306473.56		A	2.3
8	☐	1.000		2163114.29		A	4.0

89 Y (ISTD) [He]

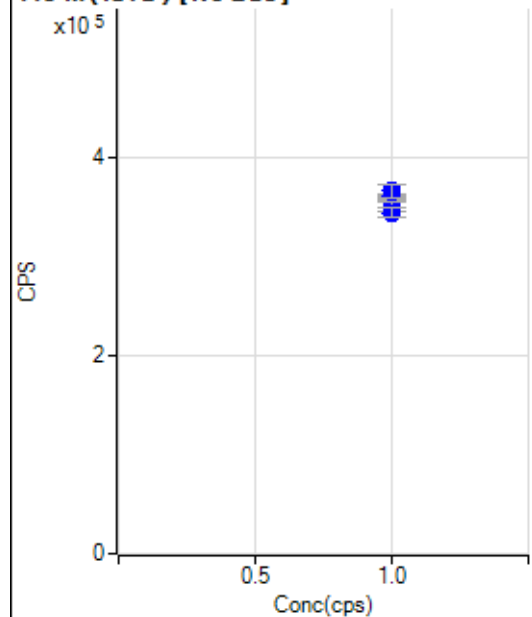
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		292646.05		P	1.1
2	☐	1.000		275422.00		P	1.5
3	☐	1.000		282531.28		P	1.2
4	☐	1.000		281262.77		P	0.3
5	☐	1.000		285761.41		P	2.4
6	☐	1.000		282509.10		P	1.1
7	☐	1.000		290556.17		P	2.4
8	☐	1.000		284010.59		P	3.7

103 Rh (ISTD) [No Gas]

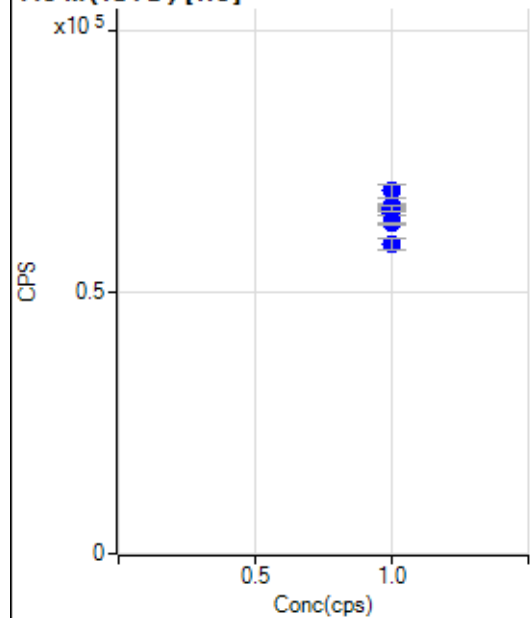
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		366458.83		P	1.3
2	☐	1.000		359224.84		P	0.9
3	☐	1.000		369236.76		P	1.0
4	☐	1.000		366684.77		P	1.1
5	☐	1.000		368519.30		P	0.8
6	☐	1.000		368905.59		P	1.8
7	☐	1.000		374452.80		P	3.0
8	☐	1.000		347704.22		P	2.9

103 Rh (ISTD) [He]

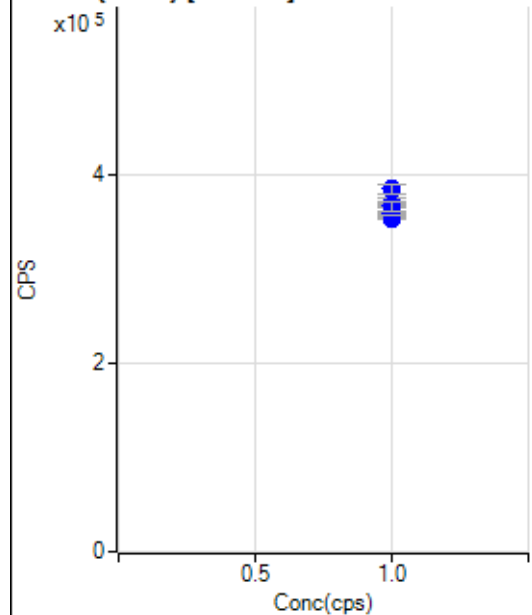
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		192801.87		P	1.3
2	☐	1.000		189411.06		P	1.9
3	☐	1.000		195002.29		P	0.4
4	☐	1.000		193681.77		P	1.1
5	☐	1.000		197357.21		P	2.5
6	☐	1.000		193918.68		P	0.7
7	☐	1.000		198196.96		P	2.2
8	☐	1.000		186704.07		P	3.1

115 In (ISTD) [No Gas]

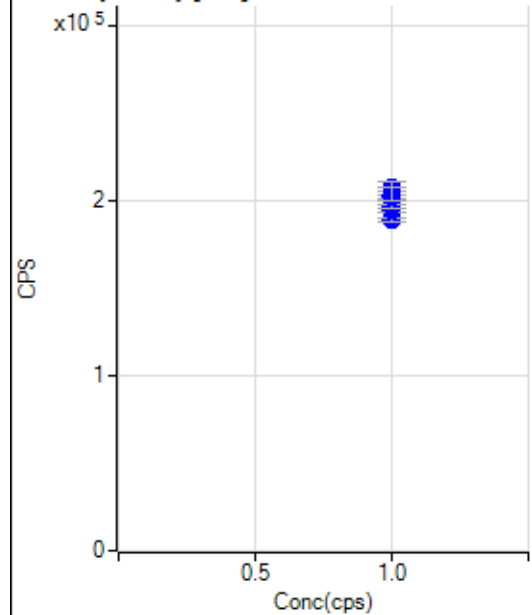
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		357472.35		P	0.5
2	☐	1.000		355301.93		P	0.7
3	☐	1.000		359852.06		P	0.3
4	☐	1.000		360841.07		P	0.8
5	☐	1.000		356374.82		P	0.6
6	☐	1.000		349941.03		P	2.6
7	☐	1.000		343309.51		P	2.8
8	☐	1.000		365821.71		P	3.4

115 In (ISTD) [He]

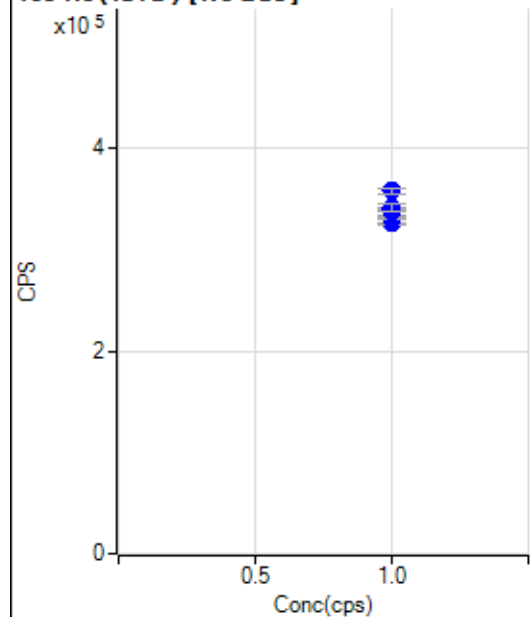
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		66458.86		P	0.9
2	☐	1.000		65117.72		P	1.4
3	☐	1.000		66545.50		P	0.2
4	☐	1.000		66353.92		P	1.2
5	☐	1.000		65979.51		P	2.0
6	☐	1.000		63086.40		P	1.1
7	☐	1.000		59094.26		P	3.6
8	☐	1.000		69397.96		P	3.8

159 Tb (ISTD) [No Gas]

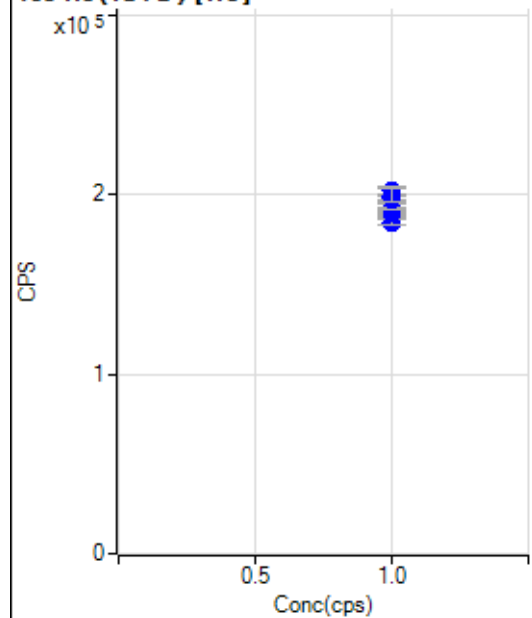
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		353820.09		P	0.5
2	☐	1.000		353565.51		P	0.3
3	☐	1.000		356712.78		P	1.1
4	☐	1.000		359722.73		P	1.0
5	☐	1.000		366807.71		P	0.9
6	☐	1.000		371856.85		P	1.7
7	☐	1.000		385377.90		P	2.6
8	☐	1.000		366989.53		P	3.0

159 Tb (ISTD) [He]

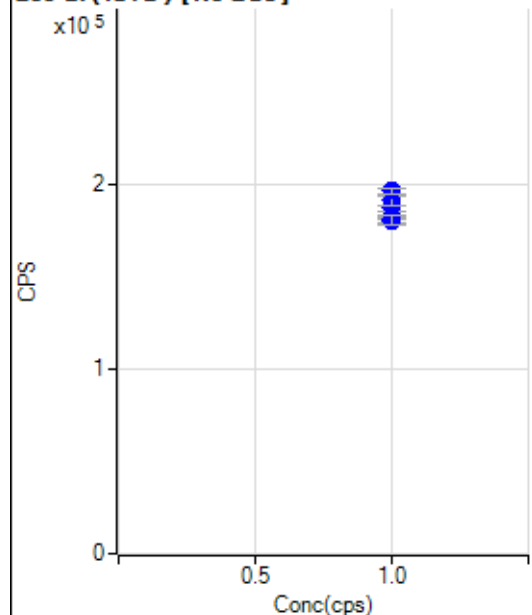
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		193080.09		P	0.1
2	☐	1.000		188864.16		P	1.5
3	☐	1.000		194262.03		P	0.8
4	☐	1.000		196216.85		P	1.3
5	☐	1.000		202967.99		P	2.3
6	☐	1.000		201519.93		P	1.0
7	☐	1.000		207059.82		P	3.5
8	☐	1.000		203256.70		P	3.8

165 Ho (ISTD) [No Gas]

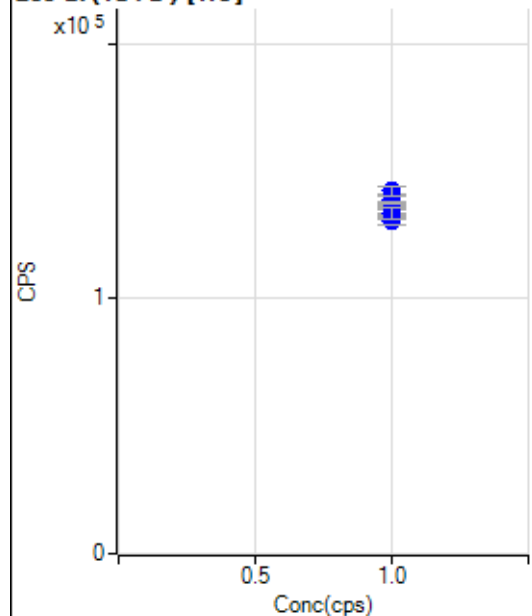
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t.	RSD
1	☐	1.000		331564.48		P	0.9
2	☐	1.000		325927.55		P	0.7
3	☐	1.000		330343.94		P	0.3
4	☐	1.000		338358.04		P	0.5
5	☐	1.000		339226.19		P	1.2
6	☐	1.000		341046.90		P	2.2
7	☐	1.000		357691.51		P	1.4
8	☐	1.000		341487.51		P	2.5

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t.	RSD
1	☐	1.000		187925.58		P	0.6
2	☐	1.000		184693.25		P	1.7
3	☐	1.000		190094.48		P	0.9
4	☐	1.000		192015.26		P	0.7
5	☐	1.000		197579.81		P	2.5
6	☐	1.000		197874.16		P	1.0
7	☐	1.000		202090.32		P	2.6
8	☐	1.000		199761.45		P	3.7

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		182694.44		P	0.4
2	☐	1.000		180675.21		P	1.3
3	☐	1.000		183132.80		P	0.7
4	☐	1.000		187393.37		P	1.2
5	☐	1.000		189073.95		P	0.3
6	☐	1.000		191559.66		P	2.5
7	☐	1.000		196936.36		P	1.8
8	☐	1.000		181200.32		P	3.2

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		131913.52		P	0.4
2	☐	1.000		130214.81		P	1.9
3	☐	1.000		132947.83		P	0.2
4	☐	1.000		134744.49		P	0.1
5	☐	1.000		138837.91		P	3.1
6	☐	1.000		137625.85		P	0.9
7	☐	1.000		142157.83		P	2.9
8	☐	1.000		133261.17		P	3.1

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8092120MS.b
Acq. Date-Time 2020-09-21 11:48:06
Report Comment ---
Instrument Name G8403A SG19224459

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		2562	25619.91			1.400	5.000
24		41288	412878.16			1.129	5.000
25		5420	54199.61			1.339	5.000
26		6320	63198.27			1.004	5.000
59		16256	162562.07			0.923	5.000
113		2229	22292.10			1.181	5.000
115		6613	66131.37			1.244	5.000
206		1999	19985.93			1.957	5.000
207		1665	16653.40			1.637	5.000
208		4107	41074.65			1.529	5.000
220		1	8.80			18.235	

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

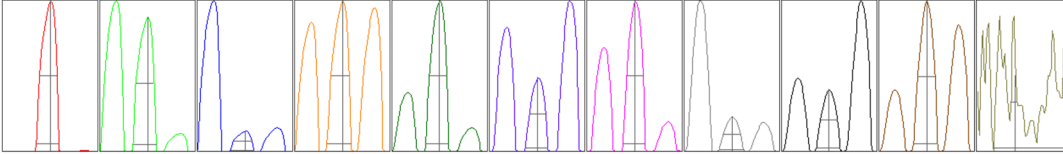
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	2567	2598	2585	2505	2555
24	41484	41639	41683	40585	41049
25	5468	5471	5459	5301	5400
26	6380	6358	6332	6216	6314
59	16231	16355	16154	16085	16456
113	2234	2218	2237	2193	2265
115	6589	6720	6655	6498	6603
206	1968	2022	1969	1978	2056
207	1622	1692	1658	1675	1680
208	4035	4182	4069	4088	4163

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	4990.45	9.05	8.90 - 9.10	
24	76461.81	24.05	23.90 - 24.10	
25	10053.75	25.05	24.90 - 25.10	
26	11738.82	26.05	25.90 - 26.10	
59	31192.85	59.00	58.90 - 59.10	
113	4558.11	113.05	112.90 - 113.10	
115	13506.39	115.05	114.90 - 115.10	
206	3887.43	206.05	205.90 - 206.10	
207	3279.76	207.00	206.90 - 207.10	
208	7911.03	208.05	207.90 - 208.10	
220	1.10	219.75	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.55	0.722	0.900	
24	0.57	0.736	0.900	
25	0.58	0.736	0.900	
26	0.57	0.773	0.900	
59	0.54	0.731	0.900	
113	0.51	0.689	0.900	
115	0.51	0.687	0.900	
206	0.54	0.767	0.900	
207	0.53	0.746	0.900	
208	0.54	0.764	0.900	
220	0.20	2.344		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode HMI Nebulizer Gas 0.51 L/min Dilution Gas 0.46 L/min

US EPA Tune Check Report

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

Lens Parameters

Extract 1	-6.0 V	Omega Lens	10.4 V	Deflect	14.6 V
Extract 2	-250.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-120 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	150 V		

QP Parameters

Mass Gain	122	Axis Gain	0.9993	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	0.9 mm	Torch V	-0.4 mm
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EM

Discriminator	4.0 mV	Analog HV	2181 V	Pulse HV	1312 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		4168	41677.24			1.687	
89		2516	25155.40			0.962	
205		6785	67846.73			1.924	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	4098	4131	4271	4208	4131
89	2479	2534	2533	2530	2502
205	6640	6988	6767	6813	6716

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	HMI	Nebulizer Gas	0.51 L/min	Dilution Gas	0.46 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	10.4 V	Deflect	4.6 V
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US EPA Tune Check Report

Extract 2	-250.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-120 V	Cell Exit	-70 V		
Cell Parameters					
Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	4.5 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		
QP Parameters					
Mass Gain	122	Axis Gain	0.9993	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.01		
Hardware Settings					
Torch					
Torch H	0.9 mm	Torch V	-0.4 mm		
EM					
Discriminator	4.0 mV	Analog HV	2181 V	Pulse HV	1312 V