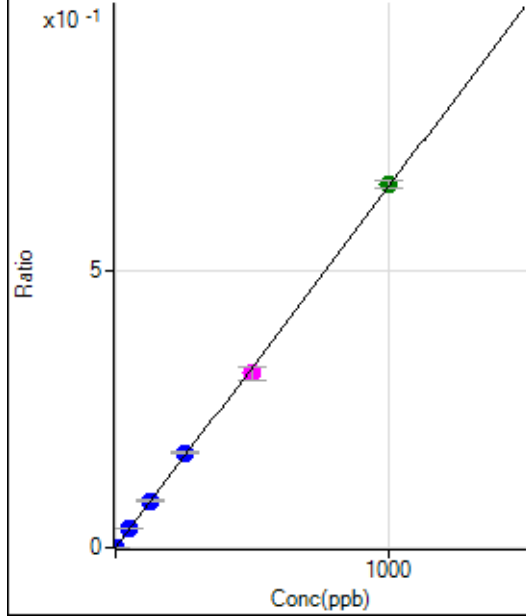


Calibration for 019\CSB.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P7121622-MS.b\
 Analysis File: P7121622-MS.batch.bin
 DA Date-Time: 2022-12-19 15:09:38
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2022-12-16 14:40:19
2	005CALS.d	S02	2022-12-16 14:43:12
3	006CALS.d	S03	2022-12-16 14:46:06
4	007CALS.d	S04	2022-12-16 14:48:51
5	008CALS.d	S05	2022-12-16 14:51:38
6	009CALS.d	S06	2022-12-16 14:54:22
7	010CALS.d	S07	2022-12-16 14:57:10
8	011CALS.d	S08	2022-12-16 14:59:54

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	90.00	0.0000	P	8.0
2	☐	1.000	1.058	2475.77	0.0007	P	6.2
3	☐	50.000	54.802	119336.83	0.0358	P	0.3
4	☐	125.000	128.140	281756.18	0.0836	P	4.3
5	☐	250.000	262.015	541642.44	0.1709	P	1.9
6	☐	500.000	482.562	1021167.04	0.3146	M	7.9
7	☐	1000.000	1005.083	1990739.85	0.6553	A	2.0
8	☐			831.14	0.0003	P	17.3

$$y = 6.5198\text{E-}004 * x + 2.6954\text{E-}005$$

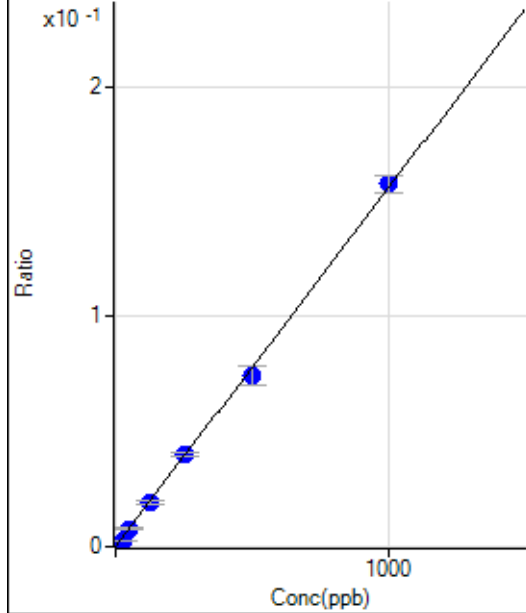
$$R = 0.9997$$

$$DL = 0.009972$$

$$BEC = 0.04134$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	344.46	0.0001	P	11.0
2	☐	25.000	16.300	9105.69	0.0026	P	12.6
3	☐	50.000	49.130	25894.46	0.0078	P	8.0
4	☐	125.000	120.246	63508.97	0.0188	P	8.5
5	☐	250.000	255.195	126437.11	0.0399	P	4.9
6	☐	500.000	476.806	241247.99	0.0744	P	10.6
7	☐	1000.000	1011.153	478932.66	0.1577	P	4.7
8	☐			22208.19	0.0087	P	18.0

$$y = 1.5583\text{E-}004 * x + 1.0321\text{E-}004$$

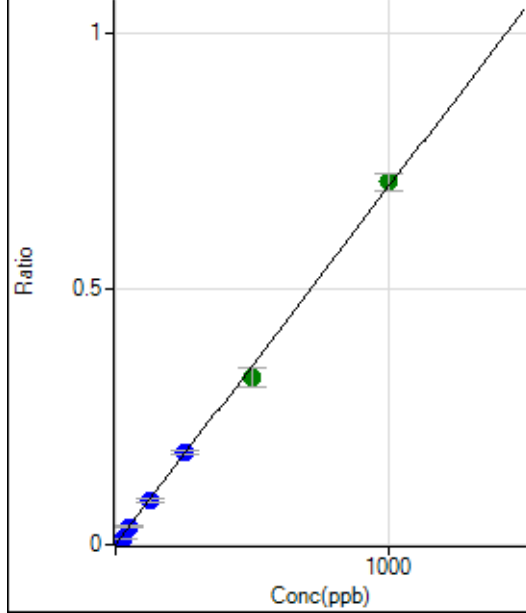
$$R = 0.9996$$

$$DL = 0.218$$

$$BEC = 0.6623$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1541.78	0.0005	P	3.8
2	☐	25.000	16.460	41256.03	0.0120	P	14.5
3	☐	50.000	50.363	119214.84	0.0357	P	7.5
4	☐	125.000	121.482	288220.88	0.0855	P	8.5
5	☐	250.000	257.794	573789.62	0.1810	P	3.6
6	☐	500.000	469.549	1067121.17	0.3292	A	11.5
7	☐	1000.000	1013.912	2157700.29	0.7103	A	4.8
8	☐			102349.03	0.0399	P	20.4

$$y = 7.0014\text{E-}004 * x + 4.6158\text{E-}004$$

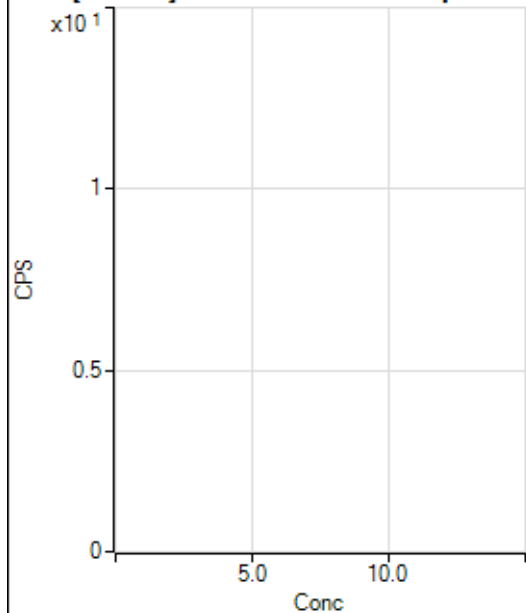
$$R = 0.9993$$

$$DL = 0.07435$$

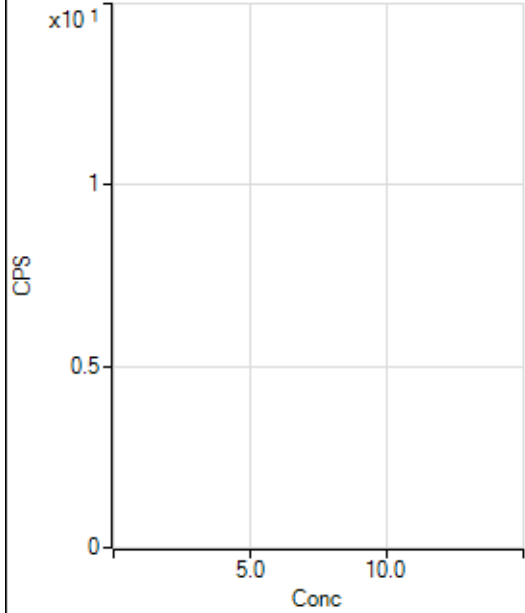
$$BEC = 0.6593$$

Weight: <None>

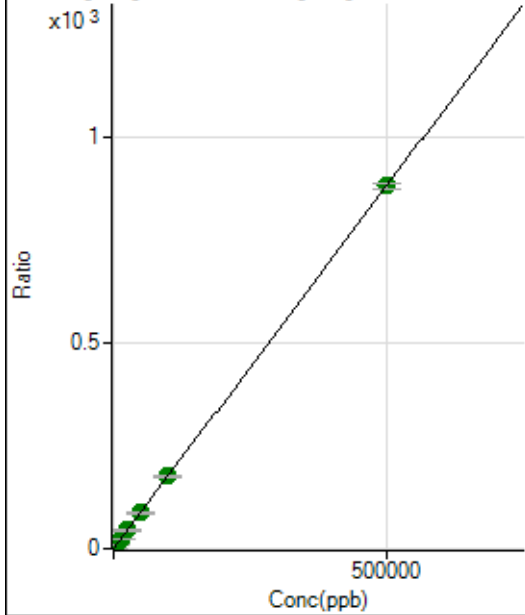
Min Conc: 0

12 C [No Gas] No available calibration points

	R _j 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	12996.35	0.0353	P	1.0
2	☐	500.000	477.368	326038.06	0.8770	P	1.3
3	☐	5000.000	4969.064	3217766.74	8.7968	A	0.7
4	☐	12500.000	12493.561	7730204.63	22.0642	A	1.1
5	☐	25000.000	25228.710	15016540.73	44.5191	A	0.8
6	☐	50000.000	49271.832	29083830.28	86.9126	A	2.4
7	☐	100000.00	99856.675	57479674.43	176.1050	A	1.5
8	☐	500000.00	500090.53	280194117.3	881.8072	A	1.8

$$y = 0.0018 * x + 0.0353$$

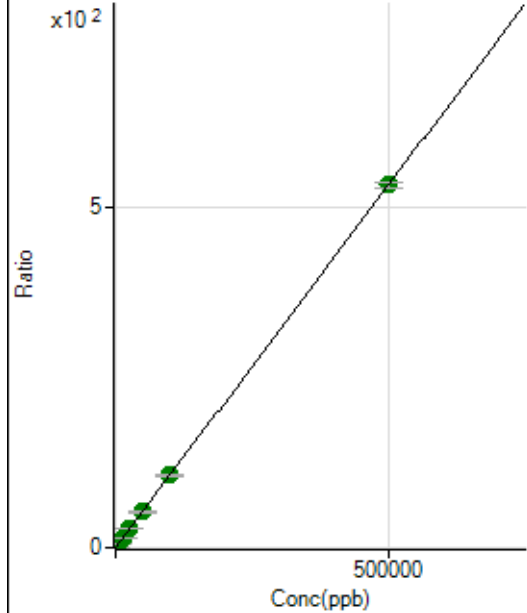
$$R = 1.0000$$

$$DL = 0.5749$$

$$BEC = 20$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	333.34	0.0009	P	10.5
2	☐	500.000	482.784	191791.11	0.5159	P	1.4
3	☐	5000.000	5106.449	1992715.38	5.4479	A	1.6
4	☐	12500.000	12668.441	4734751.67	13.5142	A	0.8
5	☐	25000.000	25439.613	9153637.94	27.1371	A	1.0
6	☐	50000.000	49569.763	17690608.96	52.8765	A	3.7
7	☐	100000.00	99681.997	34706841.98	106.3308	A	1.2
8	☐	500000.00	500079.38	169497279.7	533.4311	A	1.9

$$y = 0.0011 * x + 9.0554E-004$$

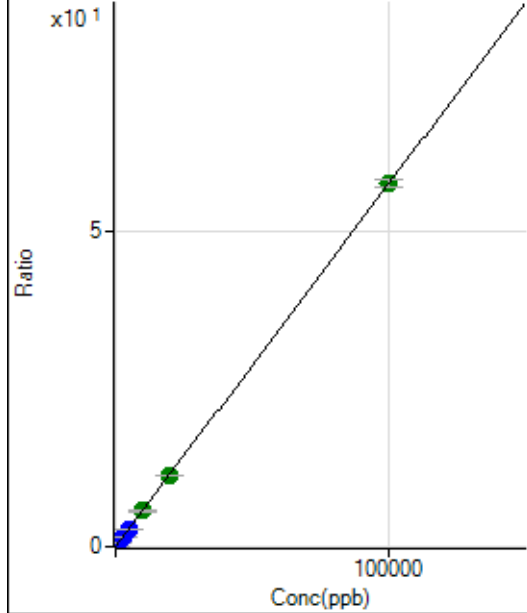
$$R = 1.0000$$

$$DL = 0.2669$$

$$BEC = 0.8489$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	77.78	0.0002	P	20.9
2	☐	20.000	19.043	4158.05	0.0112	P	3.3
3	☐	1000.000	983.969	207482.73	0.5672	P	1.6
4	☐	2500.000	2445.098	493718.16	1.4092	P	0.5
5	☐	5000.000	4913.401	955077.95	2.8315	P	0.3
6	☐	10000.000	9823.341	1894442.68	5.6608	A	1.9
7	☐	20000.000	19793.532	3723023.75	11.4060	A	0.6
8	☐	100000.00	100064.82	18321277.03	57.6615	A	2.0

$$y = 5.7624E-004 * x + 2.1158E-004$$

$$R = 1.0000$$

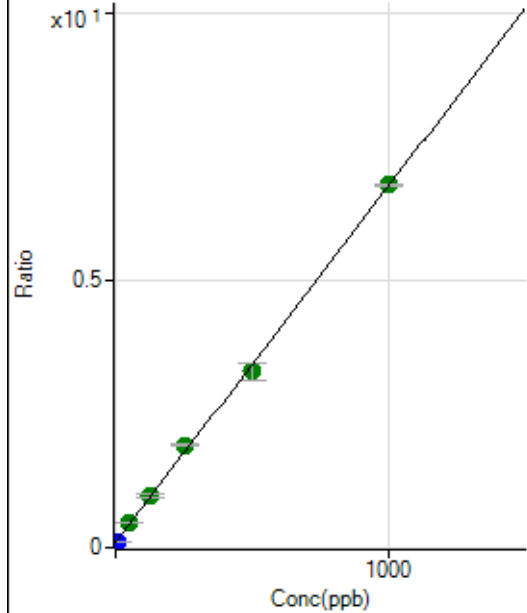
$$DL = 0.23$$

$$BEC = 0.3672$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	491185.34	0.0975	P	1.2
2	☐	10.000	1.269	546635.23	0.1059	P	4.3
3	☐	50.000	55.939	2330898.92	0.4697	A	0.4
4	☐	125.000	131.265	4735505.27	0.9711	A	4.0
5	☐	250.000	272.796	8629535.17	1.9130	A	1.3
6	☐	500.000	479.765	15556489.93	3.2904	A	9.6
7	☐	1000.000	1003.426	30094604.14	6.7755	A	0.6
8	☐			832502.31	0.2045	P	10.2

$$y = 0.0067 * x + 0.0975$$

$$R = 0.9993$$

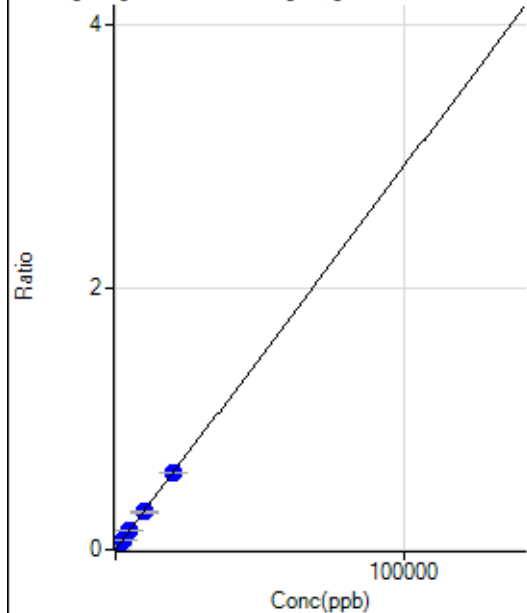
$$DL = 0.5268$$

$$BEC = 14.64$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	-2.821	441.69	0.0012	P	16.5
2	☐	0.000	2.821	505.58	0.0014	P	17.1
3	☐	1000.000	1017.862	11321.08	0.0309	P	2.2
4	☐	2500.000	2533.610	26320.48	0.0751	P	1.9
5	☐	5000.000	5028.862	49876.29	0.1479	P	2.0
6	☐	10000.000	9819.789	96199.24	0.2875	P	3.1
7	☐	20000.000	20077.796	191445.68	0.5865	P	1.0
8	☐			380.57	0.0012	P	2.9

$$y = 2.9149E-005 * x + 0.0013$$

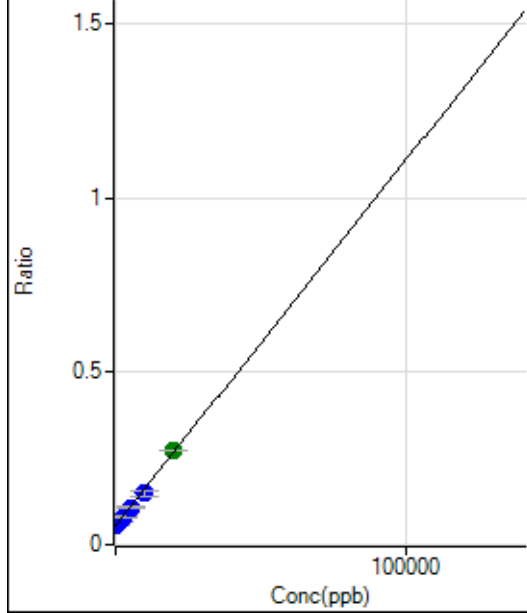
$$R = 0.9999$$

$$DL = 22.11$$

$$BEC = 43.86$$

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	18.132	277960.16	0.0552	P	1.4
2	☐	0.000	-18.132	282568.22	0.0548	P	5.6
3	☐	1000.000	1130.126	331834.27	0.0669	P	1.8
4	☐	2500.000	2348.175	388879.25	0.0797	P	2.4
5	☐	5000.000	5026.924	487094.76	0.1080	P	1.0
6	☐	10000.000	8772.435	697672.45	0.1475	P	8.5
7	☐	20000.000	20619.523	1210079.54	0.2724	A	0.5
8	☐			238463.93	0.0585	P	6.7

$$y = 1.0547E-005 * x + 0.0550$$

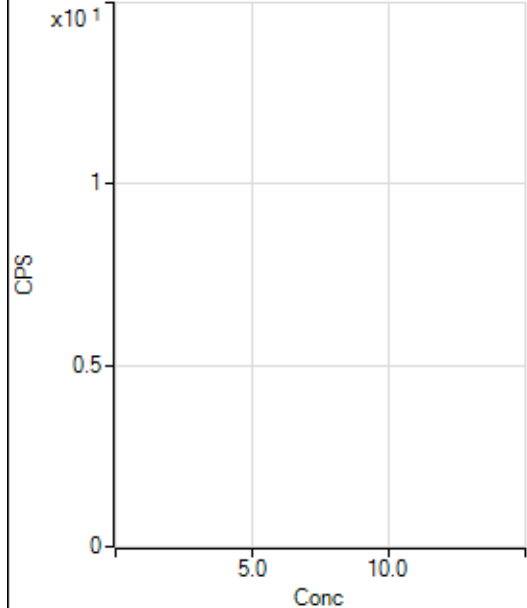
$$R = 0.9972$$

$$DL = 551.9$$

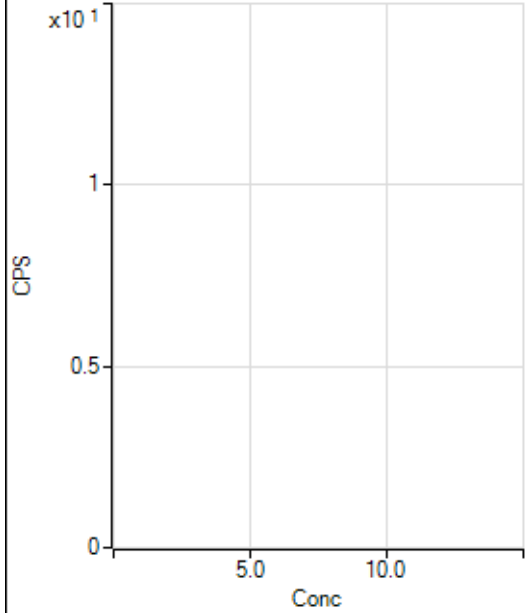
$$BEC = 5211$$

Weight: <None>

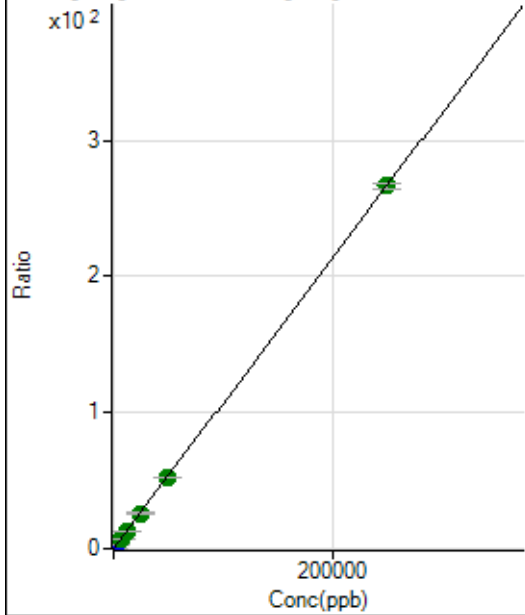
Min Conc: 0

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	41869.40	0.1136	P	2.2
2	☐	500.000	501.738	240686.39	0.6474	P	1.2
3	☐	2500.000	2623.026	1062271.46	2.9040	P	0.9
4	☐	6250.000	6088.443	2309368.11	6.5906	A	1.7
5	☐	12500.000	12218.758	4422857.96	13.1122	A	0.7
6	☐	25000.000	24178.437	8645149.76	25.8351	A	2.4
7	☐	50000.000	48964.622	17039310.45	52.2030	A	0.9
8	☐	250000.00	250306.09	84644406.75	266.3936	A	1.9

$$y = 0.0011 * x + 0.1136$$

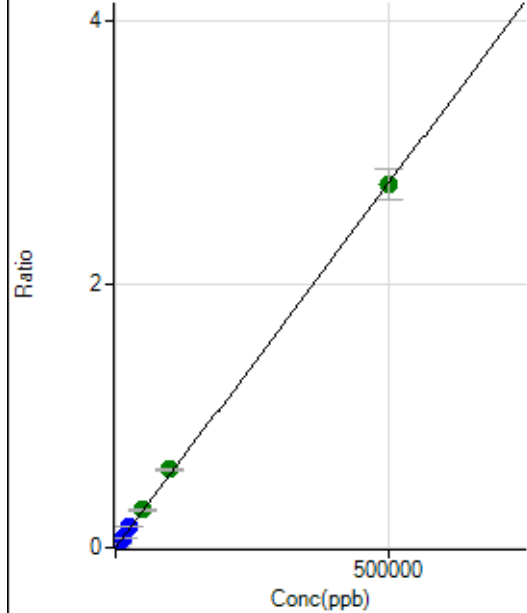
$$R = 1.0000$$

$$DL = 7.176$$

$$BEC = 106.8$$

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	127.78	0.0000	P	24.9
2	☐	500.000	478.871	13795.55	0.0027	P	6.9
3	☐	5000.000	5734.868	157591.51	0.0318	P	0.7
4	☐	12500.000	13948.336	376533.40	0.0772	P	4.0
5	☐	25000.000	29005.288	724109.27	0.1605	P	1.5
6	☐	50000.000	51805.283	1356584.94	0.2867	A	8.1
7	☐	100000.00	107968.01	2653545.02	0.5975	A	2.8
8	☐	500000.00	497982.06	11226386.02	2.7556	A	8.4

$$y = 5.5335E-006 * x + 2.5295E-005$$

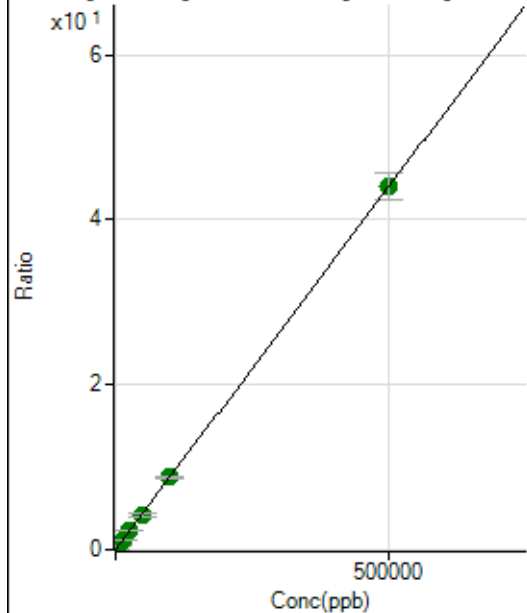
$$R = 0.9999$$

$$DL = 3.412$$

$$BEC = 4.571$$

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	7085.24	0.0014	P	4.2
2	☐	500.000	475.613	222972.11	0.0432	P	5.8
3	☐	5000.000	5222.192	2285228.91	0.4605	A	1.1
4	☐	12500.000	12609.422	5413113.14	1.1100	A	4.0
5	☐	25000.000	25923.848	10288102.05	2.2805	A	1.3
6	☐	50000.000	47391.775	19709629.43	4.1678	A	9.1
7	☐	100000.00	100231.46	39143121.71	8.8132	A	1.9
8	☐	500000.00	500163.40	179212177.6	43.9729	A	7.6

$$y = 8.7914E-005 * x + 0.0014$$

$$R = 1.0000$$

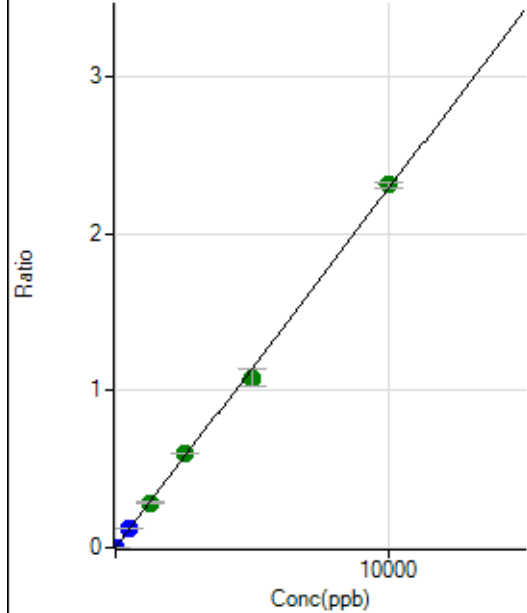
$$DL = 2.013$$

$$BEC = 15.99$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	130.56	0.0000	P	25.9
2	☐	5.000	5.089	6129.18	0.0012	P	10.5
3	☐	500.000	512.898	582170.23	0.1173	P	0.2
4	☐	1250.000	1246.375	1390296.92	0.2851	A	3.2
5	☐	2500.000	2612.499	2695532.91	0.5975	A	0.7
6	☐	5000.000	4732.235	5116361.83	1.0822	A	9.7
7	☐	10000.000	10105.566	10264593.20	2.3111	A	1.6
8	☐			3900.60	0.0010	P	22.8

$$y = 2.2869E-004 * x + 2.5908E-005$$

$$R = 0.9994$$

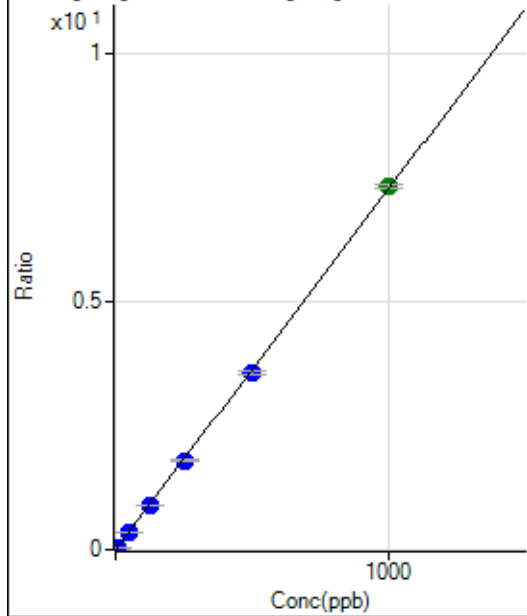
$$DL = 0.08804$$

$$BEC = 0.1133$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	11.11	0.0000	P	17.0
2	☐	5.000	4.834	13070.18	0.0352	P	0.4
3	☐	50.000	49.191	130736.85	0.3574	P	0.9
4	☐	125.000	122.803	312599.36	0.8922	P	0.5
5	☐	250.000	247.377	606231.95	1.7973	P	0.4
6	☐	500.000	490.705	1192927.27	3.5651	P	2.7
7	☐	1000.000	1005.619	2384720.43	7.3061	A	1.0
8	☐			683.36	0.0021	P	9.8

$$y = 0.0073 * x + 3.0140E-005$$

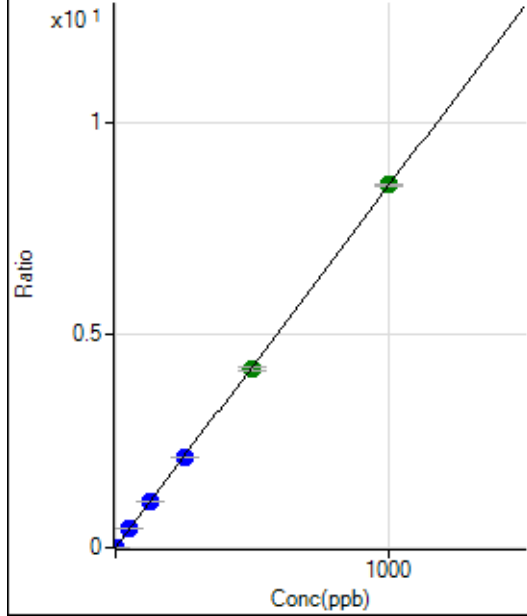
$$R = 0.9999$$

$$DL = 0.002121$$

$$BEC = 0.004149$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	833.36	0.0023	P	5.0
2	☐	2.000	1.948	7000.57	0.0188	P	2.9
3	☐	50.000	50.622	158333.38	0.4329	P	0.7
4	☐	125.000	125.679	375336.82	1.0713	P	0.4
5	☐	250.000	251.655	722784.42	2.1428	P	0.3
6	☐	500.000	492.546	1402782.74	4.1918	A	2.2
7	☐	1000.000	1003.198	2786048.22	8.5354	A	0.6
8	☐			17969.69	0.0565	P	0.8

$$y = 0.0085 * x + 0.0023$$

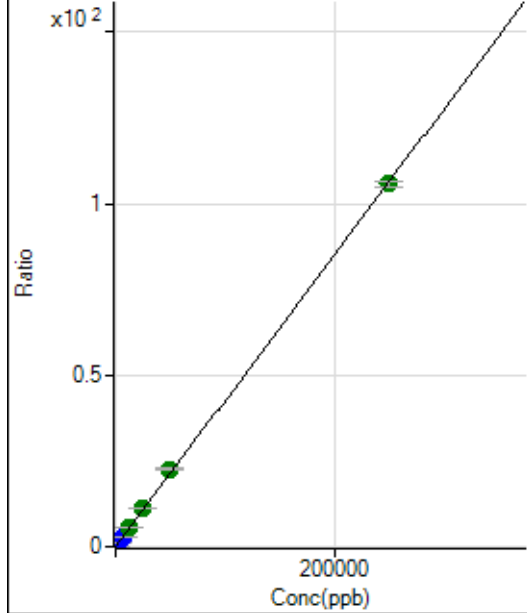
$$R = 1.0000$$

$$DL = 0.04008$$

$$BEC = 0.2658$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1751.91	0.0048	P	2.9
2	☐	50.000	55.196	10481.13	0.0282	P	2.8
3	☐	2500.000	2809.637	437957.20	1.1973	P	0.7
4	☐	6250.000	6977.095	1039210.02	2.9662	P	0.8
5	☐	12500.000	13627.375	1952618.26	5.7889	A	0.5
6	☐	25000.000	26695.191	3793041.87	11.3356	A	2.7
7	☐	50000.000	53146.722	7364822.69	22.5629	A	1.3
8	☐	250000.00	249123.49	33600785.02	105.7455	A	1.7

$$y = 4.2445E-004 * x + 0.0048$$

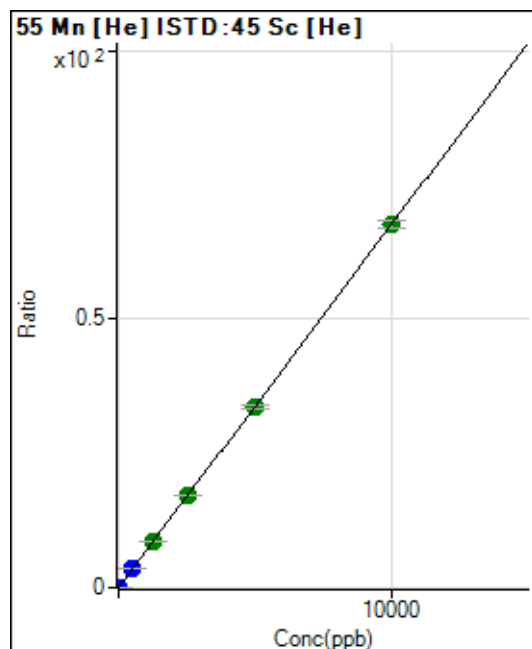
$$R = 0.9999$$

$$DL = 0.9866$$

$$BEC = 11.2$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	93.33	0.0003	P	9.6
2	☐	1.000	1.064	2770.28	0.0074	P	2.3
3	☐	500.000	508.527	1258416.67	3.4403	P	0.7
4	☐	1250.000	1266.770	3002377.94	8.5696	A	0.9
5	☐	2500.000	2531.223	5775649.91	17.1233	A	1.2
6	☐	5000.000	5001.607	11322622.19	33.8349	A	2.1
7	☐	10000.000	9988.868	22055756.61	67.5724	A	2.1
8	☐			22884.15	0.0720	P	0.2

$$y = 0.0068 * x + 2.5329E-004$$

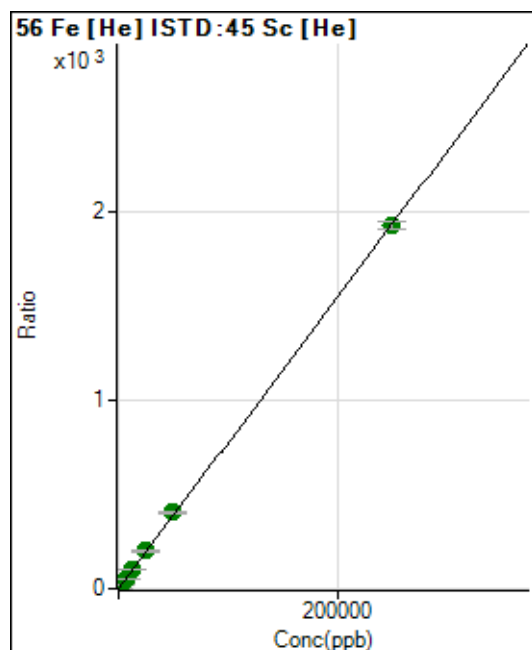
$$R = 1.0000$$

$$DL = 0.01075$$

$$BEC = 0.03744$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	9805.20	0.0266	P	1.2
2	☐	50.000	53.404	162856.84	0.4380	P	1.1
3	☐	2500.000	2671.507	7538463.07	20.6085	A	0.8
4	☐	6250.000	6657.515	17978940.22	51.3176	A	1.1
5	☐	12500.000	13407.961	34852014.44	103.3246	A	0.4
6	☐	25000.000	26008.466	67044792.24	200.4017	A	3.9
7	☐	50000.000	52251.123	131407183.4	402.5810	A	0.7
8	☐	250000.00	249391.62	610505791.4	1,921.395	A	2.1

$$y = 0.0077 * x + 0.0266$$

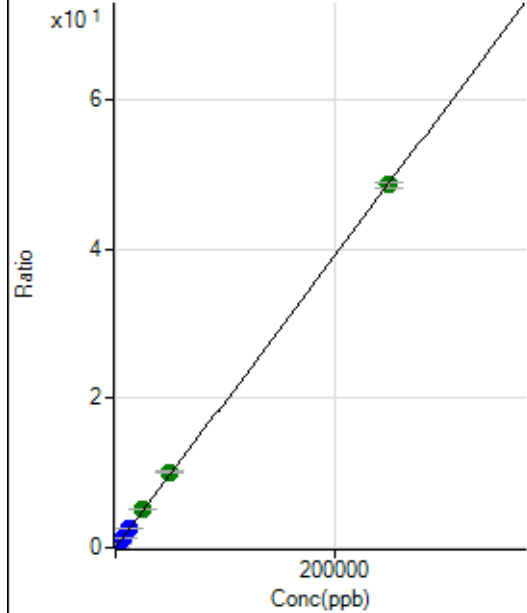
$$R = 1.0000$$

$$DL = 0.125$$

$$BEC = 3.453$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	222.23	0.0006	P	12.7
2	☐	50.000	56.339	4313.65	0.0116	P	1.5
3	☐	2500.000	2708.475	193658.98	0.5294	P	0.4
4	☐	6250.000	6729.542	460549.87	1.3145	P	0.6
5	☐	12500.000	13487.724	888467.17	2.6340	P	0.2
6	☐	25000.000	26420.957	1726267.16	5.1592	A	2.9
7	☐	50000.000	52177.228	3325407.68	10.1880	A	0.8
8	☐	250000.00	249358.99	15470493.64	48.6869	A	1.7

$$y = 1.9525\text{E-}004 * x + 6.0274\text{E-}004$$

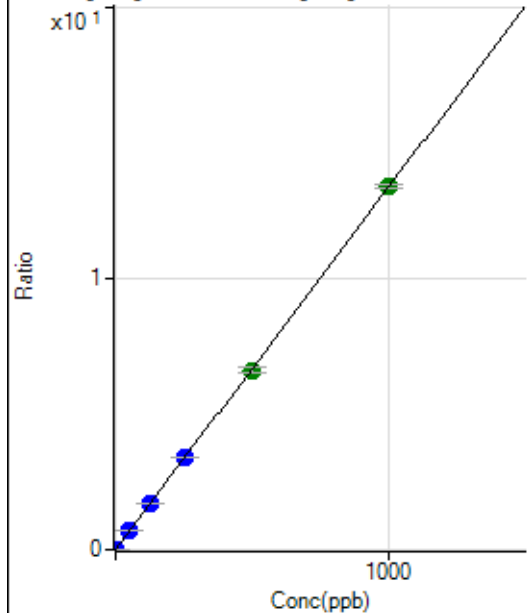
$$R = 1.0000$$

$$DL = 1.177$$

$$BEC = 3.087$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	47.78	0.0001	P	14.4
2	☐	1.000	1.025	5149.82	0.0139	P	1.3
3	☐	50.000	51.194	250734.90	0.6855	P	1.0
4	☐	125.000	126.347	592657.04	1.6916	P	0.5
5	☐	250.000	252.370	1139637.34	3.3786	P	0.2
6	☐	500.000	495.890	2221274.72	6.6387	A	3.1
7	☐	1000.000	1001.235	4374992.12	13.4038	A	1.1
8	☐			5402.13	0.0170	P	3.2

$$y = 0.0134 * x + 1.2964\text{E-}004$$

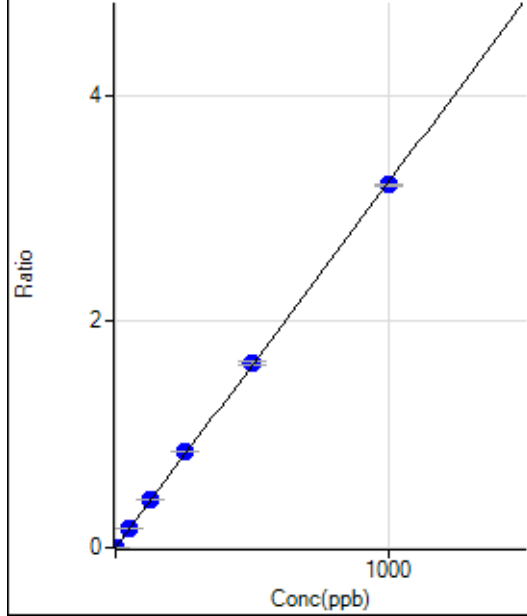
$$R = 1.0000$$

$$DL = 0.004192$$

$$BEC = 0.009684$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	125.56	0.0003	P	10.1
2	☐	1.000	1.025	1357.85	0.0037	P	4.2
3	☐	50.000	53.787	63650.92	0.1740	P	1.6
4	☐	125.000	132.498	150004.53	0.4281	P	0.9
5	☐	250.000	261.989	285443.42	0.8462	P	0.4
6	☐	500.000	505.387	546128.91	1.6321	P	2.6
7	☐	1000.000	993.183	1046828.71	3.2071	P	0.8
8	☐			3792.74	0.0119	P	2.8

$$y = 0.0032 * x + 3.4073E-004$$

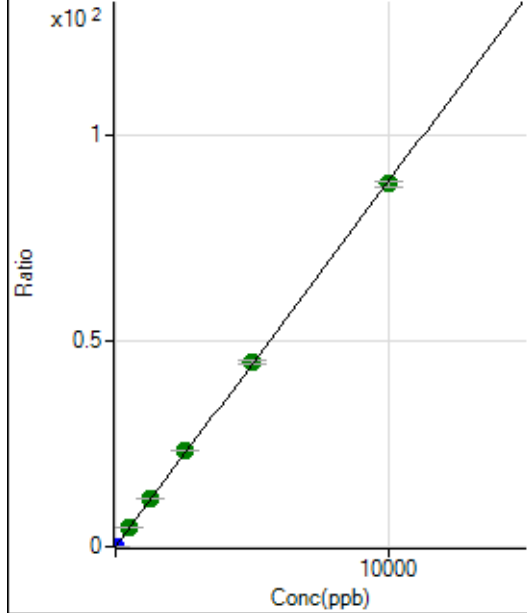
$$R = 0.9999$$

$$DL = 0.03197$$

$$BEC = 0.1055$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1076.71	0.0029	P	5.6
2	☐	2.000	2.108	8057.78	0.0217	P	2.0
3	☐	500.000	538.485	1753086.19	4.7923	A	2.8
4	☐	1250.000	1322.315	4121560.04	11.7637	A	0.4
5	☐	2500.000	2614.866	7845730.78	23.2598	A	0.4
6	☐	5000.000	5060.265	15061717.69	45.0094	A	2.3
7	☐	10000.000	9930.187	28828448.74	88.3230	A	1.9
8	☐			7371.88	0.0232	P	0.5

$$y = 0.0089 * x + 0.0029$$

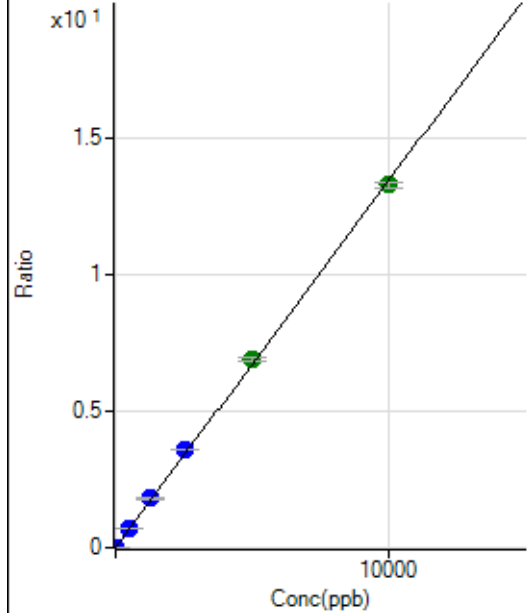
$$R = 0.9999$$

$$DL = 0.05477$$

$$BEC = 0.3283$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	325.56	0.0009	P	10.5
2	☐	2.000	2.312	1484.53	0.0040	P	2.5
3	☐	500.000	543.995	267789.01	0.7321	P	0.2
4	☐	1250.000	1341.333	631971.64	1.8038	P	0.8
5	☐	2500.000	2657.912	1205356.77	3.5734	P	0.6
6	☐	5000.000	5114.643	2300891.25	6.8756	A	2.0
7	☐	10000.000	9889.584	4338963.41	13.2937	A	1.6
8	☐			3188.15	0.0100	P	3.4

$$y = 0.0013 * x + 8.8410E-004$$

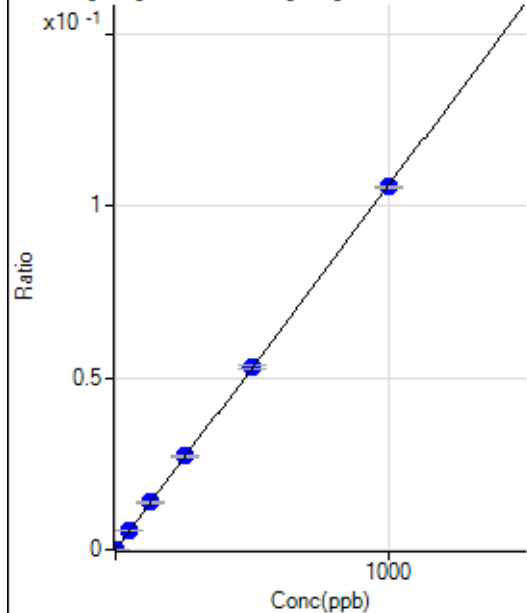
$$R = 0.9997$$

$$DL = 0.2072$$

$$BEC = 0.6578$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	0.62	0.0000	P	173.
2	☐	1.000	1.165	357.41	0.0001	P	2.3
3	☐	50.000	52.924	15886.92	0.0056	P	0.6
4	☐	125.000	130.022	37568.87	0.0138	P	1.0
5	☐	250.000	256.990	72235.95	0.0272	P	1.2
6	☐	500.000	502.219	140321.50	0.0532	P	2.2
7	☐	1000.000	996.369	273049.11	0.1055	P	0.7
8	☐			94.44	0.0000	P	10.6

$$y = 1.0593E-004 * x + 2.1906E-007$$

$$R = 1.0000$$

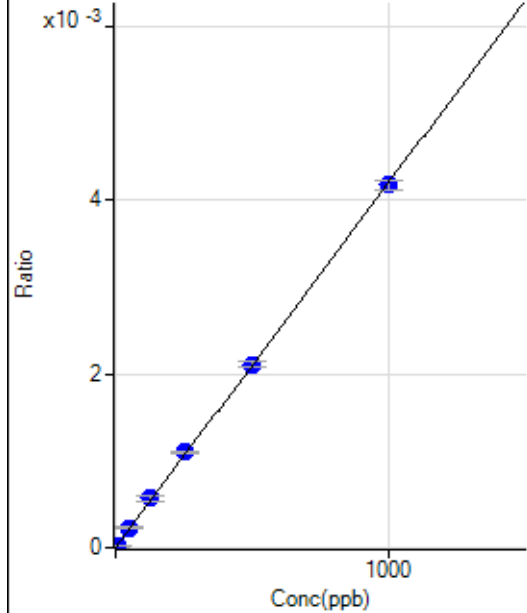
$$DL = 0.01075$$

$$BEC = 0.002068$$

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	1.11	0.0000	P	173.
2	☐	5.000	6.225	76.67	0.0000	P	9.0
3	☐	50.000	53.302	635.58	0.0002	P	8.8
4	☐	125.000	134.891	1545.65	0.0006	P	8.8
5	☐	250.000	261.557	2915.87	0.0011	P	1.6
6	☐	500.000	502.459	5566.65	0.0021	P	2.7
7	☐	1000.000	994.474	10805.12	0.0042	P	2.5
8	☐			2.22	0.0000	P	86.6

$$y = 4.1997\text{E-}006 * x + 3.8347\text{E-}007$$

$$R = 0.9999$$

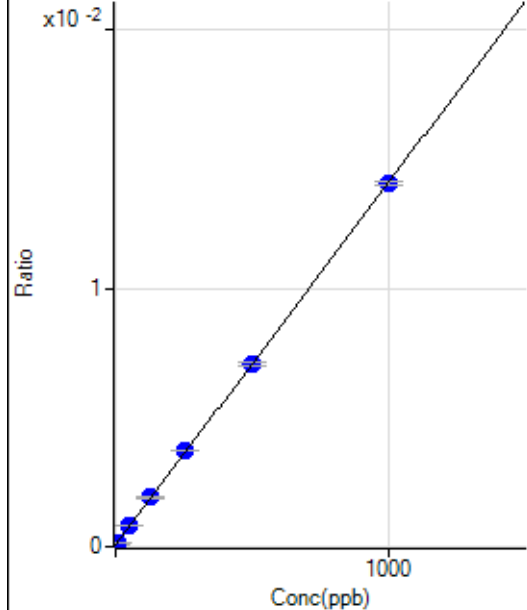
$$DL = 0.4745$$

$$BEC = 0.09131$$

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	178.40	0.0001	P	4.9
2	☐	5.000	4.951	380.87	0.0001	P	2.9
3	☐	50.000	52.766	2273.64	0.0008	P	2.2
4	☐	125.000	131.099	5184.88	0.0019	P	4.6
5	☐	250.000	261.490	9898.40	0.0037	P	1.1
6	☐	500.000	499.441	18641.97	0.0071	P	2.2
7	☐	1000.000	996.506	36321.47	0.0140	P	1.1
8	☐			180.87	0.0001	P	4.3

$$y = 1.4026\text{E-}005 * x + 6.2332\text{E-}005$$

$$R = 0.9999$$

$$DL = 0.6479$$

$$BEC = 4.444$$

Weight: <None>

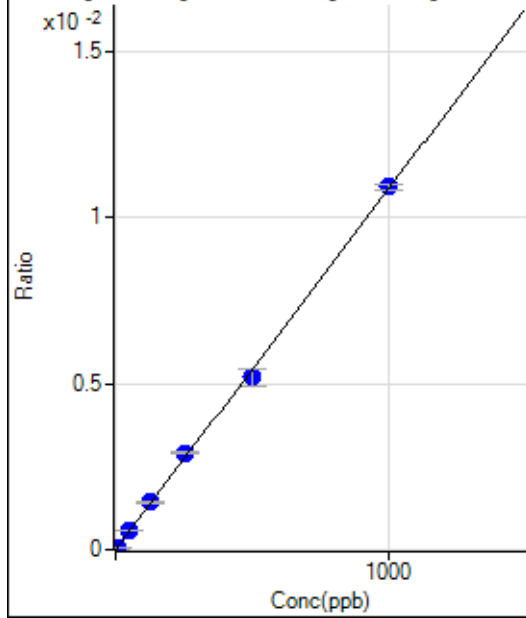
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			71183.96		P	1.4
2	☐			68853.69		P	2.1
3	☐			68541.08		P	2.6
4	☐			64349.90		P	2.1
5	☐			59878.23		P	0.2
6	☐			59749.58		P	1.2
7	☐			59707.82		P	1.0
8	☐			59830.28		P	1.6

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			96.77		P	36.3
2	☐			106.78		P	43.3
3	☐			63.40		P	39.7
4	☐			120.13		P	22.1
5	☐			46.71		P	32.7
6	☐			143.48		P	21.3
7	☐			96.77		P	43.1
8	☐			126.80		P	12.1

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	47.65	0.0000	P	97.9
2	☐	5.000	5.103	800.94	0.0001	P	1.4
3	☐	50.000	53.852	7565.94	0.0006	P	1.5
4	☐	125.000	130.535	18239.58	0.0014	P	4.4
5	☐	250.000	266.836	34825.49	0.0029	P	1.7
6	☐	500.000	478.489	65816.56	0.0052	P	9.6
7	☐	1000.000	1005.661	128436.54	0.0109	P	1.9
8	☐			272.52	0.0000	P	25.4

$$y = 1.0856E-005 * x + 3.5451E-006$$

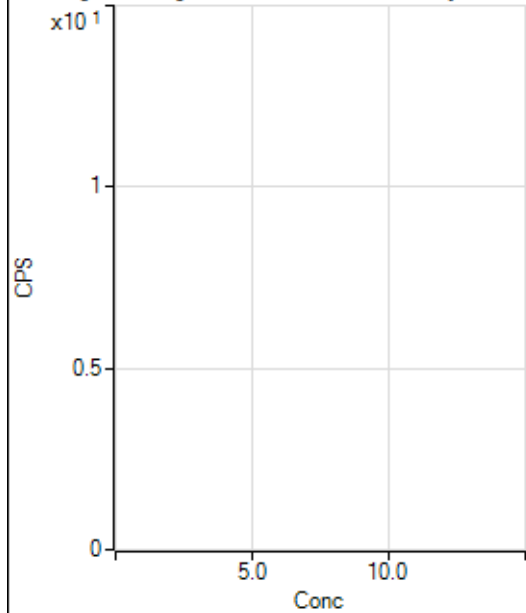
$$R = 0.9995$$

$$DL = 0.9596$$

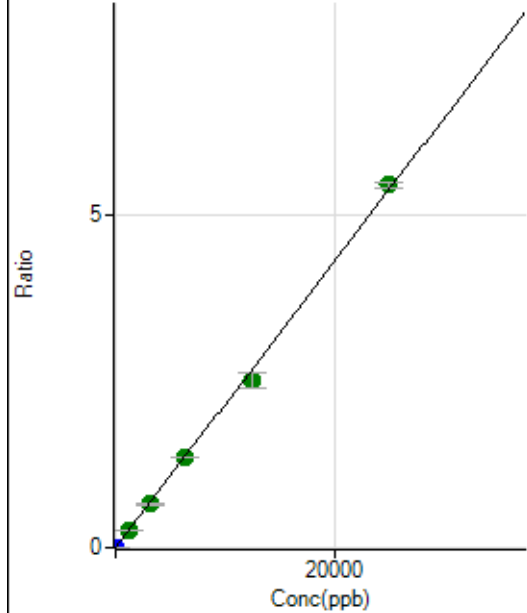
$$BEC = 0.3266$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐			173.34		P	12.6
2	☐			171.12		P	7.9
3	☐			167.78		P	8.0
4	☐			164.45		P	20.4
5	☐			158.89		P	14.0
6	☐			176.67		P	13.6
7	☐			198.89		P	14.1
8	☐			204.45		P	9.6

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	277.79	0.0000	P	11.5
2	☐	1.000	0.983	3142.08	0.0002	P	8.0
3	☐	1250.000	1266.882	3492394.09	0.2715	A	0.7
4	☐	3125.000	3075.145	8461211.04	0.6589	A	3.7
5	☐	6250.000	6363.044	16371463.39	1.3634	A	0.7
6	☐	12500.000	11679.342	31685708.69	2.5024	A	9.7
7	☐	25000.000	25387.456	63973603.51	5.4396	A	1.8
8	☐			26129.72	0.0025	P	23.8

$$y = 2.1426E-004 * x + 2.1037E-005$$

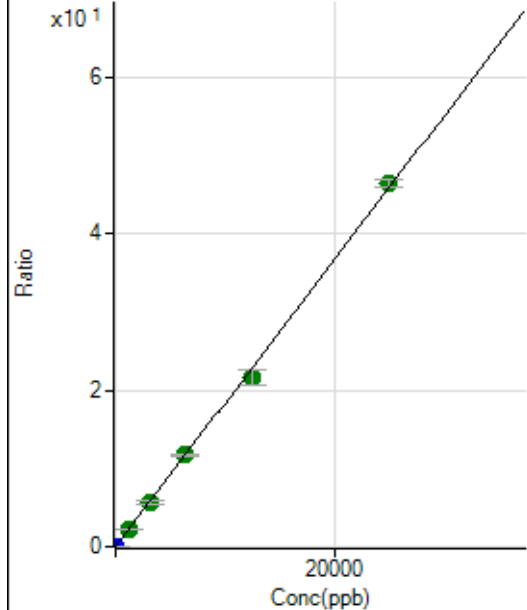
$$R = 0.9992$$

$$DL = 0.03388$$

$$BEC = 0.09818$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	161.12	0.0000	P	18.4
2	☐	1.000	0.951	23808.78	0.0018	P	5.8
3	☐	1250.000	1271.608	29992544.07	2.3314	A	0.5
4	☐	3125.000	3102.863	73016864.13	5.6888	A	6.1
5	☐	6250.000	6399.678	140894965.6	11.7331	A	0.8
6	☐	12500.000	11792.653	273871850.5	21.6205	A	8.8
7	☐	25000.000	25317.941	545895089.9	46.4176	A	2.1
8	☐			222565.68	0.0212	P	21.9

$$y = 0.0018 * x + 1.2257E-005$$

$$R = 0.9994$$

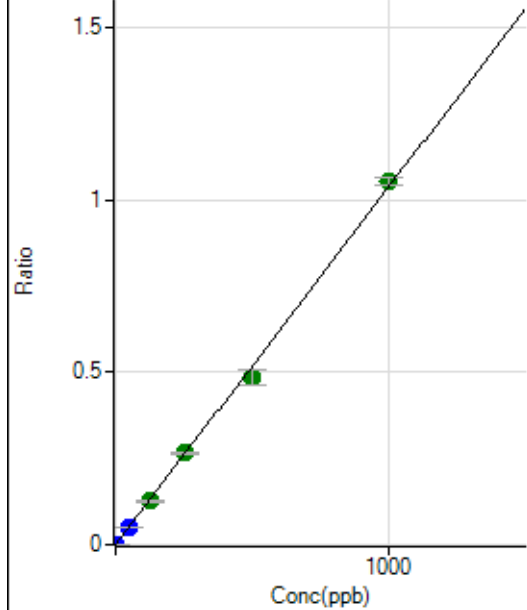
$$DL = 0.003694$$

$$BEC = 0.006686$$

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	536.14	0.0000	P	5.2
2	☐	1.000	0.936	13726.17	0.0010	P	6.3
3	☐	50.000	49.998	667755.36	0.0519	P	1.5
4	☐	125.000	122.016	1625289.47	0.1266	A	6.0
5	☐	250.000	255.663	3185178.93	0.2653	A	0.9
6	☐	500.000	467.208	6138221.19	0.4847	A	9.4
7	☐	1000.000	1015.353	12388453.67	1.0534	A	2.3
8	☐			5162.18	0.0005	P	25.4

$$y = 0.0010 * x + 4.0741E-005$$

$$R = 0.9992$$

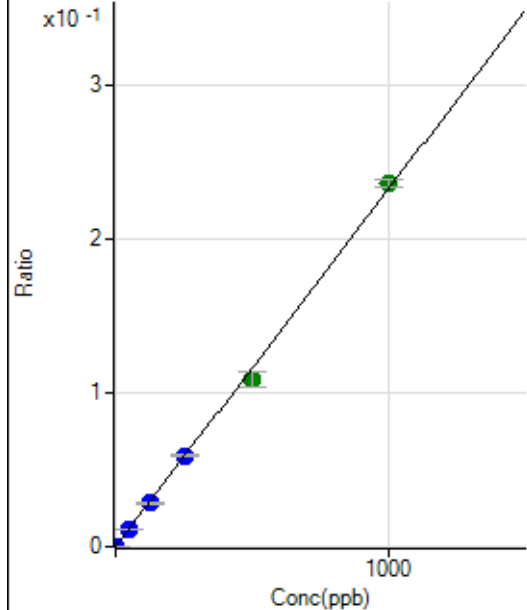
$$DL = 0.006117$$

$$BEC = 0.03927$$

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	94.45	0.0000	P	2.0
2	☐	1.000	0.951	3100.41	0.0002	P	4.7
3	☐	50.000	49.987	149476.67	0.0116	P	2.2
4	☐	125.000	121.990	363894.38	0.0283	P	5.7
5	☐	250.000	255.179	711975.26	0.0593	P	1.1
6	☐	500.000	468.760	1379057.41	0.1089	A	9.6
7	☐	1000.000	1014.702	2772455.75	0.2357	A	2.3
8	☐			1130.64	0.0001	P	27.1

$$y = 2.3232E-004 * x + 7.1667E-006$$

$$R = 0.9993$$

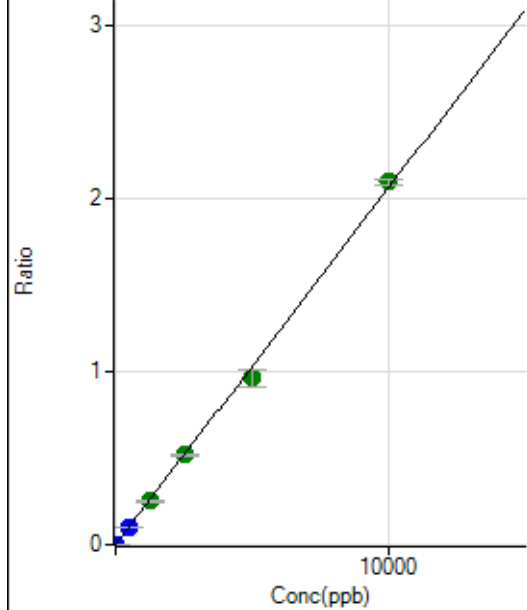
$$DL = 0.001819$$

$$BEC = 0.03085$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	130.56	0.0000	P	30.9
2	☐	5.000	5.731	16164.87	0.0012	P	7.8
3	☐	500.000	505.566	1341940.19	0.1043	P	2.3
4	☐	1250.000	1222.513	3237626.37	0.2522	A	6.2
5	☐	2500.000	2521.728	6248153.74	0.5203	A	1.9
6	☐	5000.000	4663.648	12184516.68	0.9622	A	9.6
7	☐	10000.000	10165.901	24668354.02	2.0975	A	1.8
8	☐			11510.44	0.0011	P	22.4

$$y = 2.0633\text{E-}004 * x + 9.9669\text{E-}006$$

$$R = 0.9992$$

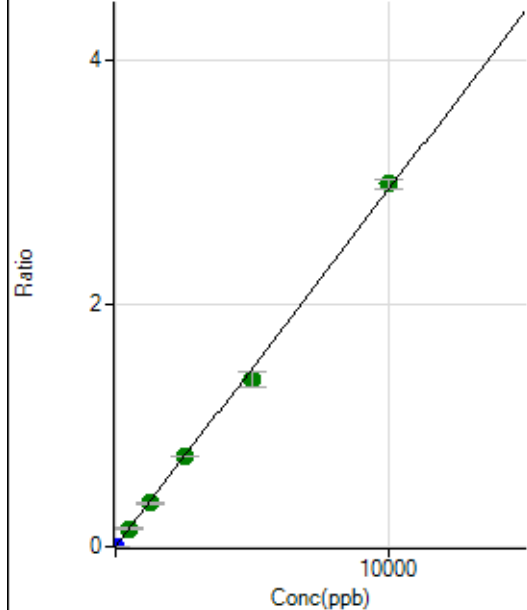
$$DL = 0.04479$$

$$BEC = 0.04831$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	44.45	0.0000	P	44.2
2	☐	5.000	4.875	19491.21	0.0014	P	6.3
3	☐	500.000	510.500	1930912.58	0.1501	A	2.6
4	☐	1250.000	1232.961	4654406.61	0.3625	A	4.9
5	☐	2500.000	2529.461	8931114.35	0.7437	A	1.2
6	☐	5000.000	4666.118	17374465.32	1.3720	A	9.4
7	☐	10000.000	10161.181	35137068.15	2.9877	A	2.4
8	☐			15063.81	0.0014	P	21.7

$$y = 2.9403\text{E-}004 * x + 3.3450\text{E-}006$$

$$R = 0.9992$$

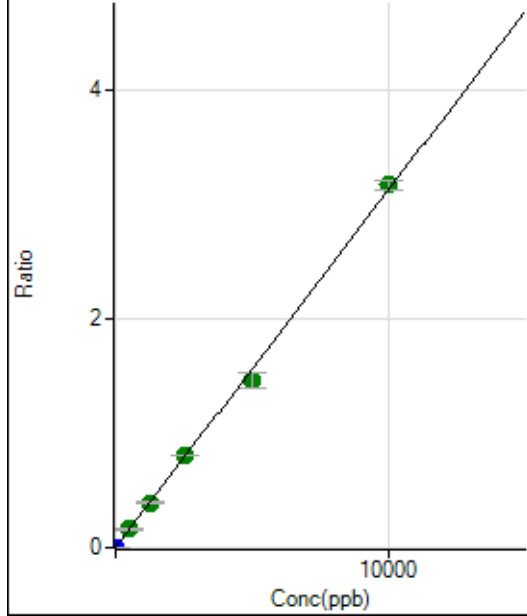
$$DL = 0.01508$$

$$BEC = 0.01138$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	138.89	0.0000	P	22.9
2	☐	5.000	4.907	20957.20	0.0015	P	5.9
3	☐	500.000	512.936	2062984.70	0.1604	A	2.1
4	☐	1250.000	1237.715	4968700.37	0.3870	A	4.2
5	☐	2500.000	2563.775	9624931.29	0.8015	A	0.5
6	☐	5000.000	4684.656	18548966.39	1.4646	A	9.2
7	☐	10000.000	10142.617	37292350.84	3.1710	A	2.6
8	☐			37702.27	0.0036	P	14.9

$$y = 3.1264\text{E-}004 * x + 1.0519\text{E-}005$$

$$R = 0.9992$$

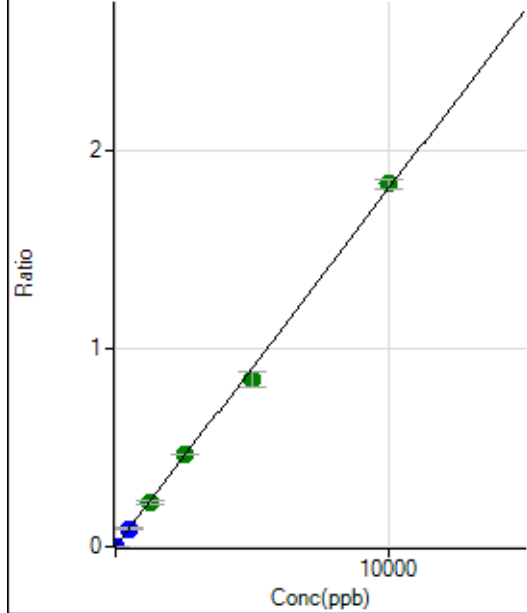
$$DL = 0.02315$$

$$BEC = 0.03365$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	25.00	0.0000	P	59.1
2	☐	5.000	4.968	12230.39	0.0009	P	6.0
3	☐	500.000	509.803	1187390.82	0.0923	P	2.1
4	☐	1250.000	1231.594	2862321.68	0.2230	A	5.9
5	☐	2500.000	2571.123	5589992.01	0.4655	A	1.2
6	☐	5000.000	4691.427	10760216.73	0.8494	A	8.7
7	☐	10000.000	10138.316	21587236.94	1.8356	A	2.8
8	☐			9711.86	0.0009	P	24.1

$$y = 1.8106\text{E-}004 * x + 1.9211\text{E-}006$$

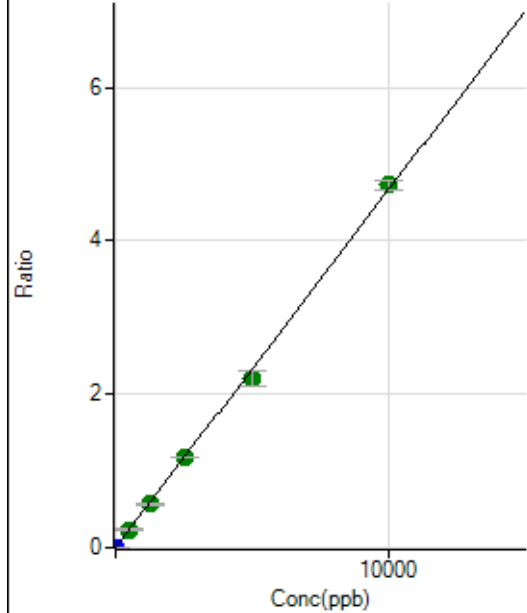
$$R = 0.9993$$

$$DL = 0.01881$$

$$BEC = 0.01061$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	50.00	0.0000	P	61.4
2	☐	5.000	4.848	30702.46	0.0023	P	7.5
3	☐	500.000	508.509	3050020.14	0.2371	A	1.2
4	☐	1250.000	1215.966	7276090.88	0.5669	A	6.7
5	☐	2500.000	2531.280	14171866.72	1.1802	A	1.3
6	☐	5000.000	4713.047	27835940.03	2.1974	A	8.8
7	☐	10000.000	10139.486	55596727.28	4.7275	A	2.5
8	☐			22982.84	0.0022	P	25.5

$$y = 4.6624\text{E-}004 * x + 3.8284\text{E-}006$$

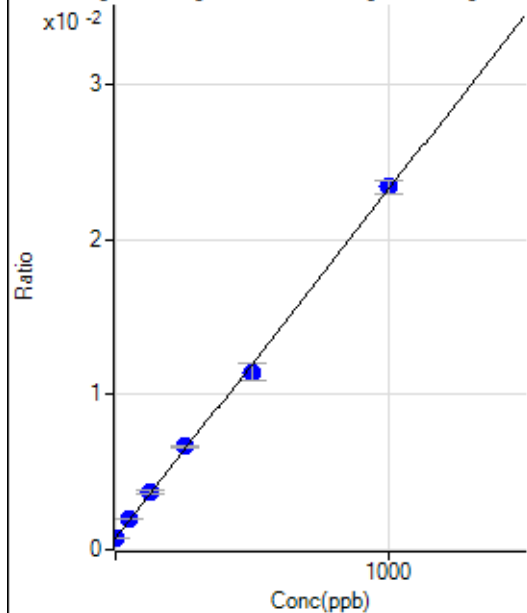
$$R = 0.9994$$

$$DL = 0.01514$$

$$BEC = 0.008211$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	7485.45	0.0007	P	2.3
2	☐	1.000	1.325	8044.17	0.0008	P	1.6
3	☐	50.000	56.156	20278.60	0.0020	P	1.5
4	☐	125.000	133.063	38084.07	0.0037	P	4.3
5	☐	250.000	263.721	64995.58	0.0067	P	1.5
6	☐	500.000	475.820	117182.75	0.0114	P	9.6
7	☐	1000.000	1007.344	222484.61	0.0234	P	3.9
8	☐			6459.97	0.0008	P	2.7

$$y = 2.2486\text{E-}005 * x + 7.3614\text{E-}004$$

$$R = 0.9994$$

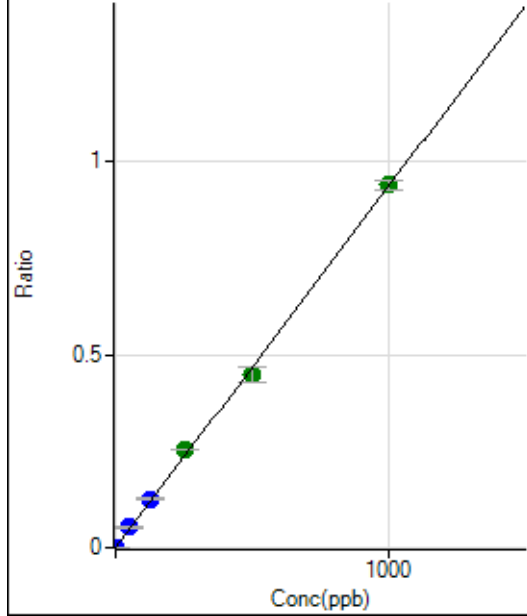
$$DL = 2.256$$

$$BEC = 32.74$$

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	105.56	0.0000	P	35.0
2	☐	1.000	1.030	10217.72	0.0010	P	6.2
3	☐	50.000	56.219	534224.28	0.0527	P	1.9
4	☐	125.000	133.396	1276262.64	0.1249	P	4.1
5	☐	250.000	270.689	2472146.06	0.2535	A	1.0
6	☐	500.000	478.494	4593799.28	0.4481	A	8.8
7	☐	1000.000	1004.220	8948454.54	0.9404	A	2.8
8	☐			4845.40	0.0006	P	19.3

$$y = 9.3647\text{E-}004 * x + 1.0355\text{E-}005$$

$$R = 0.9994$$

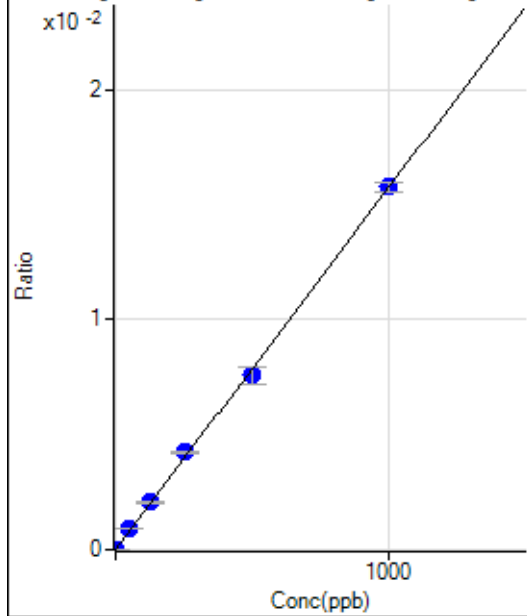
$$DL = 0.0116$$

$$BEC = 0.01106$$

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	23.61	0.0000	P	66.7
2	☐	1.000	0.885	169.45	0.0000	P	22.8
3	☐	50.000	57.389	9184.96	0.0009	P	2.8
4	☐	125.000	130.889	21061.27	0.0021	P	4.6
5	☐	250.000	269.005	41296.10	0.0042	P	1.2
6	☐	500.000	482.472	77816.98	0.0076	P	9.7
7	☐	1000.000	1002.907	150181.43	0.0158	P	2.5
8	☐			108.34	0.0000	P	18.0

$$y = 1.5735\text{E-}005 * x + 2.3185\text{E-}006$$

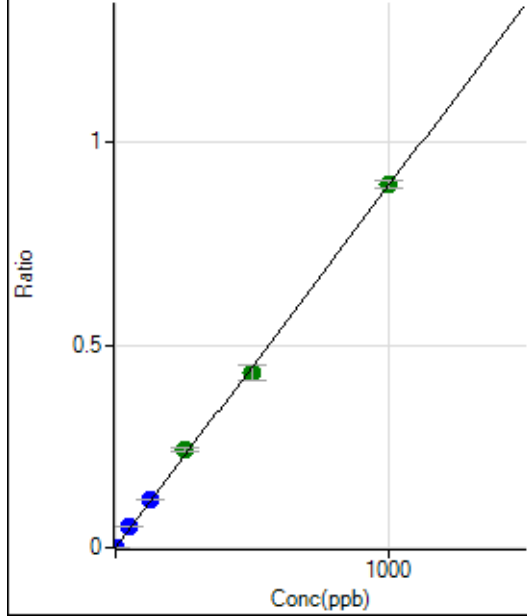
$$R = 0.9996$$

$$DL = 0.2949$$

$$BEC = 0.1473$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	30.56	0.0000	P	41.0
2	☐	1.000	1.073	10053.76	0.0010	P	10.4
3	☐	50.000	56.376	510393.60	0.0503	P	1.7
4	☐	125.000	133.006	1212570.34	0.1187	P	3.0
5	☐	250.000	271.875	2365090.05	0.2426	A	2.7
6	☐	500.000	481.197	4401936.99	0.4294	A	8.9
7	☐	1000.000	1002.613	8513505.22	0.8947	A	2.1
8	☐			4856.50	0.0006	P	11.7

$$y = 8.9233\text{E-}004 * x + 2.9947\text{E-}006$$

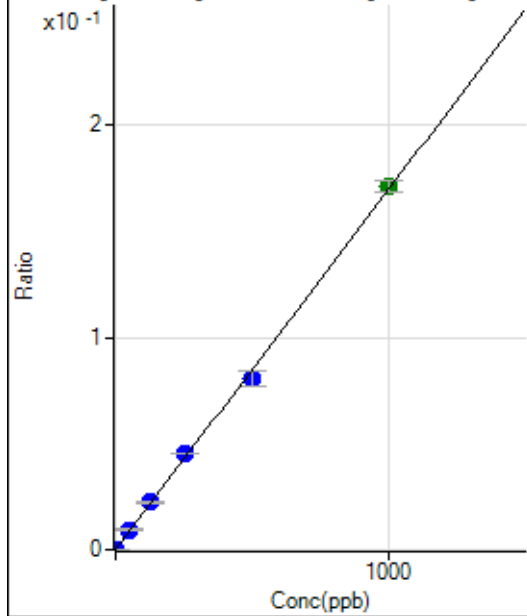
$$R = 0.9995$$

$$DL = 0.004127$$

$$BEC = 0.003356$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	733.40	0.0001	P	3.3
2	☐	1.000	1.094	2699.86	0.0003	P	8.9
3	☐	50.000	55.535	96338.72	0.0095	P	1.1
4	☐	125.000	132.144	229827.30	0.0225	P	3.7
5	☐	250.000	266.391	441497.21	0.0453	P	1.0
6	☐	500.000	474.345	825639.67	0.0806	P	9.5
7	☐	1000.000	1007.560	1627406.71	0.1711	A	3.3
8	☐			1307.70	0.0002	P	9.1

$$y = 1.6970\text{E-}004 * x + 7.2128\text{E-}005$$

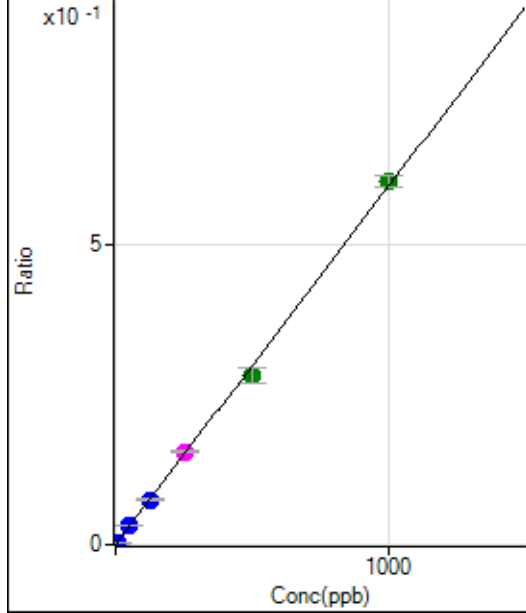
$$R = 0.9993$$

$$DL = 0.0423$$

$$BEC = 0.425$$

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	597.30	0.0001	P	26.2
2	☐	5.000	5.016	32078.07	0.0031	P	6.3
3	☐	50.000	52.233	317729.22	0.0313	P	2.2
4	☐	125.000	124.299	760588.55	0.0744	P	3.9
5	☐	250.000	259.732	1516454.62	0.1555	M	1.0
6	☐	500.000	470.338	2885377.95	0.2815	A	9.4
7	☐	1000.000	1012.374	5765007.25	0.6059	A	3.2
8	☐			7388.22	0.0009	P	15.8

$$y = 5.9846\text{E-}004 * x + 5.8908\text{E-}005$$

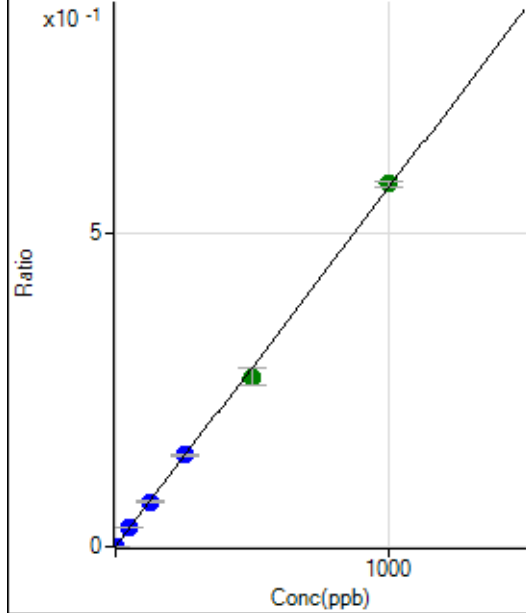
$$R = 0.9993$$

$$DL = 0.07751$$

$$BEC = 0.09843$$

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	63.89	0.0000	P	37.5
2	☐	2.000	1.968	11888.54	0.0011	P	5.8
3	☐	50.000	52.030	302422.71	0.0298	P	1.8
4	☐	125.000	125.182	732667.77	0.0717	P	3.4
5	☐	250.000	255.483	1427014.50	0.1464	P	1.2
6	☐	500.000	474.328	2784288.08	0.2717	A	9.6
7	☐	1000.000	1011.341	5513123.52	0.5793	A	1.6
8	☐			3989.54	0.0005	P	6.8

$$y = 5.7281\text{E-}004 * x + 6.2812\text{E-}006$$

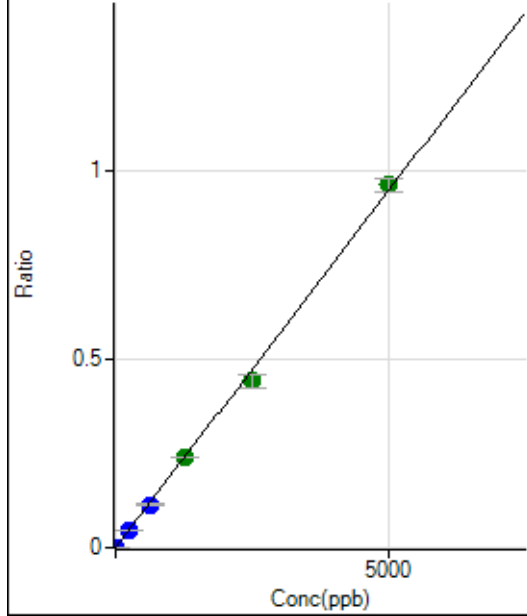
$$R = 0.9995$$

$$DL = 0.01235$$

$$BEC = 0.01097$$

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	11.11	0.0000	P	115.
2	☐	10.000	9.359	18551.39	0.0018	P	7.8
3	☐	250.000	246.778	473488.90	0.0467	P	1.8
4	☐	625.000	596.593	1152664.99	0.1128	P	3.8
5	☐	1250.000	1258.250	2320716.74	0.2380	A	0.4
6	☐	2500.000	2338.107	4534329.40	0.4422	A	8.4
7	☐	5000.000	5082.597	9144937.70	0.9612	A	3.7
8	☐			5770.79	0.0007	P	21.7

$$y = 1.8912\text{E-}004 * x + 1.1029\text{E-}006$$

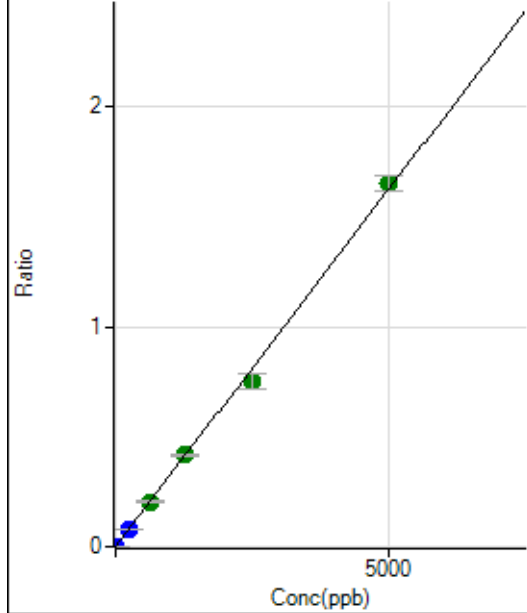
$$R = 0.9992$$

$$DL = 0.02027$$

$$BEC = 0.005832$$

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	22.22	0.0000	P	95.4
2	☐	10.000	9.548	32510.10	0.0031	P	5.0
3	☐	250.000	249.625	821921.20	0.0810	P	1.6
4	☐	625.000	628.187	2082553.13	0.2039	A	4.6
5	☐	1250.000	1279.205	4048081.43	0.4152	A	1.3
6	☐	2500.000	2325.501	7736137.59	0.7547	A	9.1
7	☐	5000.000	5079.569	15682301.04	1.6485	A	4.1
8	☐			9959.30	0.0012	P	14.7

$$y = 3.2454\text{E-}004 * x + 2.1966\text{E-}006$$

$$R = 0.9991$$

$$DL = 0.01937$$

$$BEC = 0.006768$$

Weight: <None>

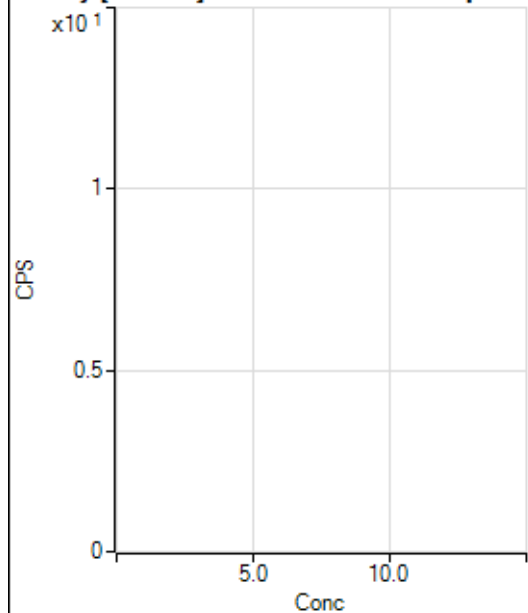
Min Conc: 0

150 Nd [No Gas] No available calibration points

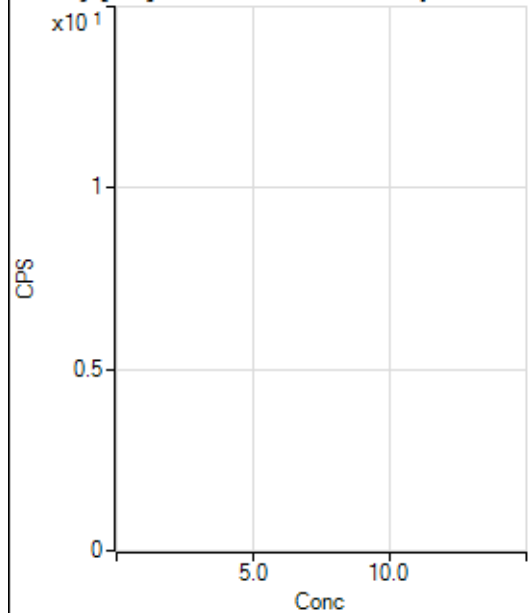
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			8.89		P	114.
3	☐			131.11		P	19.2
4	☐			408.90		P	0.9
5	☐			584.47		P	6.3
6	☐			1237.86		P	10.6
7	☐			2451.37		P	3.0
8	☐			64.44		P	52.1

150 Nd [He] No available calibration points

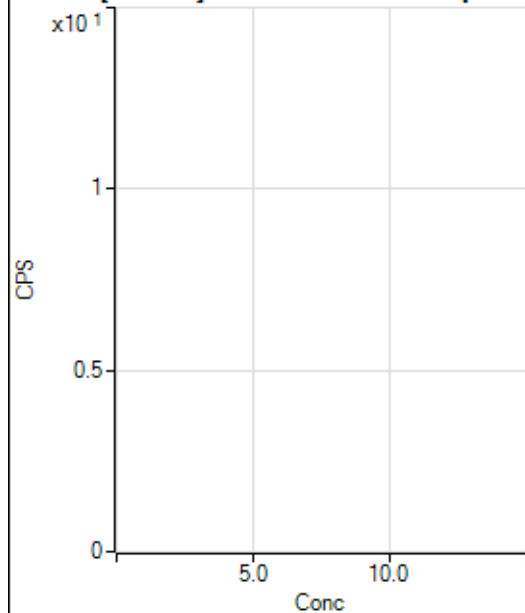
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.55		P	69.3
2	☐			3.33		P	100.
3	☐			20.00		P	28.9
4	☐			60.00		P	25.5
5	☐			98.89		P	20.3
6	☐			205.56		P	1.9
7	☐			445.57		P	4.9
8	☐			38.89		P	13.1

156 Dy [No Gas] No available calibration points

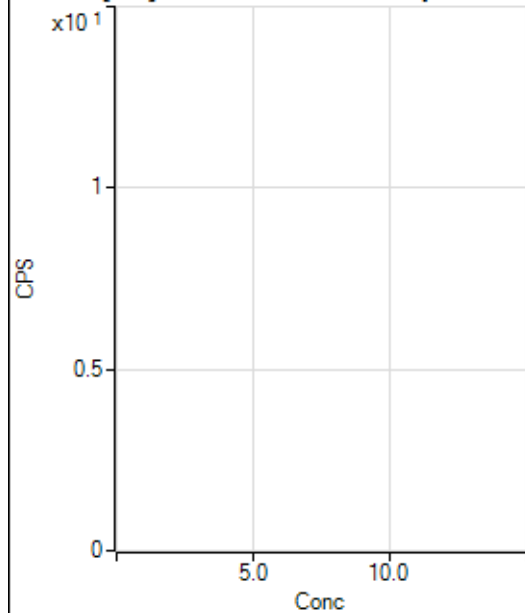
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.56		P	173.
2	☐			13.89		P	91.6
3	☐			61.11		P	55.1
4	☐			72.23		P	17.6
5	☐			194.45		P	29.2
6	☐			286.12		P	9.4
7	☐			775.05		P	5.7
8	☐			1591.80		P	6.6

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	86.6
2	☐			2.22		P	173.
3	☐			27.78		P	56.7
4	☐			120.00		P	15.5
5	☐			172.22		P	4.0
6	☐			345.56		P	2.4
7	☐			678.91		P	11.3
8	☐			1010.05		P	1.1

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

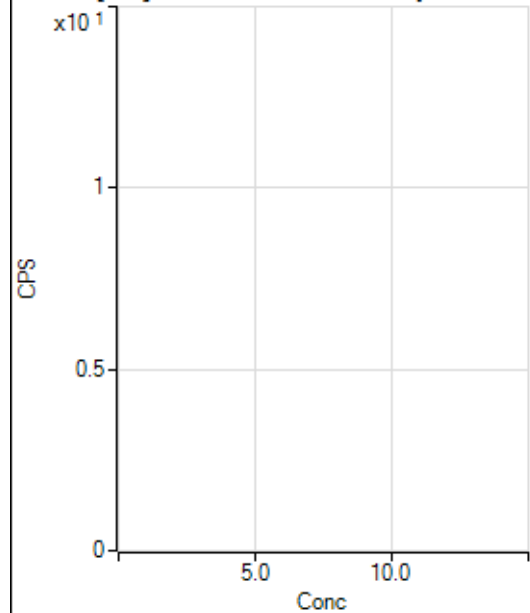
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			50.00		P	33.3
2	☐			77.78		P	37.6
3	☐			61.11		P	20.8
4	☐			102.78		P	24.8
5	☐			155.56		P	34.4
6	☐			252.79		P	12.5
7	☐			372.23		P	12.3
8	☐			1747.39		P	3.9

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			363.34		P	5.7
2	☐			387.79		P	6.0
3	☐			385.57		P	13.9
4	☐			428.90		P	14.0
5	☐			398.90		P	11.7
6	☐			465.57		P	3.0
7	☐			614.46		P	6.7
8	☐			1478.98		P	1.2

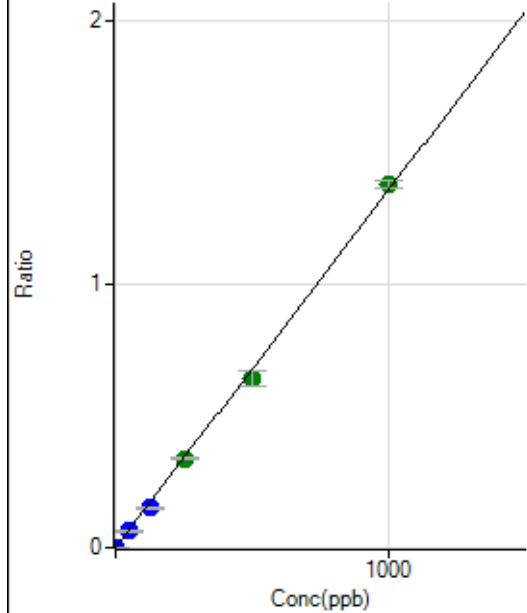
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			63.89		P	49.4
2	☐			72.22		P	43.7
3	☐			80.55		P	47.8
4	☐			86.11		P	36.6
5	☐			58.33		P	37.8
6	☐			97.23		P	40.5
7	☐			158.34		P	24.1
8	☐			147.23		P	26.7

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			28.89		P	52.0
2	☐			41.11		P	16.9
3	☐			43.33		P	27.7
4	☐			57.78		P	20.3
5	☐			61.11		P	13.7
6	☐			78.89		P	20.8
7	☐			81.11		P	8.6
8	☐			84.44		P	9.9

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	208.34	0.0000	P	16.7
2	☐	1.000	0.857	8580.70	0.0012	P	7.0
3	☐	50.000	45.882	425376.36	0.0624	P	0.9
4	☐	125.000	111.998	1049214.60	0.1522	P	4.6
5	☐	250.000	249.811	2221196.82	0.3395	A	1.7
6	☐	500.000	473.767	4271308.99	0.6438	A	8.6
7	☐	1000.000	1014.995	8287292.89	1.3792	A	2.1
8	☐			2305.82	0.0005	P	30.7

$$y = 0.0014 * x + 2.9643E-005$$

$$R = 0.9994$$

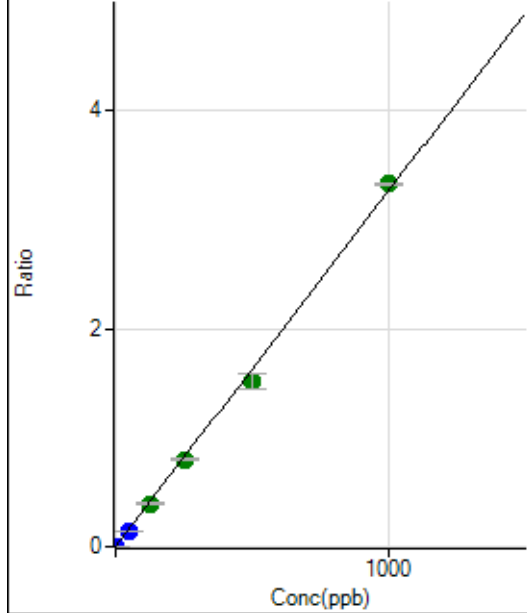
$$DL = 0.01092$$

$$BEC = 0.02182$$

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	491.69	0.0001	P	20.3
2	☐	1.000	0.859	20621.65	0.0029	P	8.3
3	☐	50.000	45.520	1012437.37	0.1485	P	0.7
4	☐	125.000	119.223	2679614.36	0.3887	A	4.1
5	☐	250.000	245.914	5245688.01	0.8017	A	1.4
6	☐	500.000	463.902	10031772.10	1.5122	A	9.0
7	☐	1000.000	1020.017	19978888.82	3.3250	A	0.7
8	☐			5295.64	0.0012	P	28.2

$$y = 0.0033 * x + 7.0005E-005$$

$$R = 0.9991$$

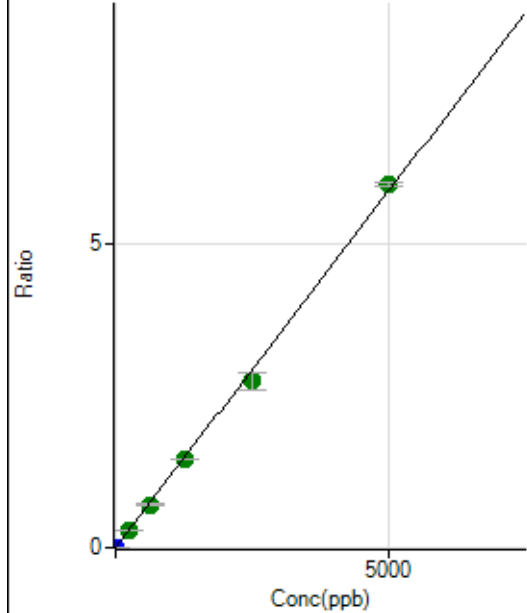
$$DL = 0.0131$$

$$BEC = 0.02148$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	418.53	0.0001	P	11.0
2	☐	1.000	0.824	7370.62	0.0010	P	7.2
3	☐	250.000	246.742	1972477.29	0.2892	A	0.9
4	☐	625.000	601.523	4860631.30	0.7050	A	3.8
5	☐	1250.000	1240.219	9510396.16	1.4535	A	2.0
6	☐	2500.000	2333.718	18132854.92	2.7351	A	10.1
7	☐	5000.000	5088.684	35834539.69	5.9638	A	1.0
8	☐			10802.69	0.0024	P	22.3

$$y = 0.0012 * x + 5.9394E-005$$

$$R = 0.9992$$

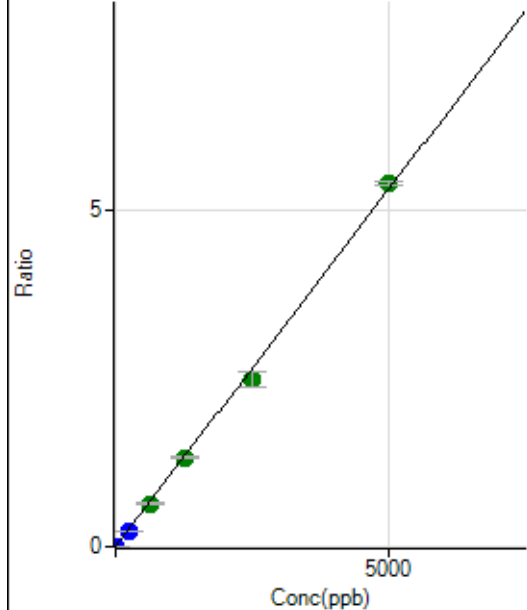
$$DL = 0.01665$$

$$BEC = 0.05068$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	348.16	0.0000	P	15.3
2	☐	1.000	0.803	6462.76	0.0009	P	5.7
3	☐	250.000	223.687	1615079.33	0.2368	P	0.2
4	☐	625.000	600.614	4382803.28	0.6357	A	3.9
5	☐	1250.000	1242.466	8603864.83	1.3151	A	2.4
6	☐	2500.000	2353.771	16524397.01	2.4913	A	9.2
7	☐	5000.000	5079.362	32303606.51	5.3761	A	1.2
8	☐			9762.98	0.0021	P	23.1

$$y = 0.0011 * x + 4.9198E-005$$

$$R = 0.9994$$

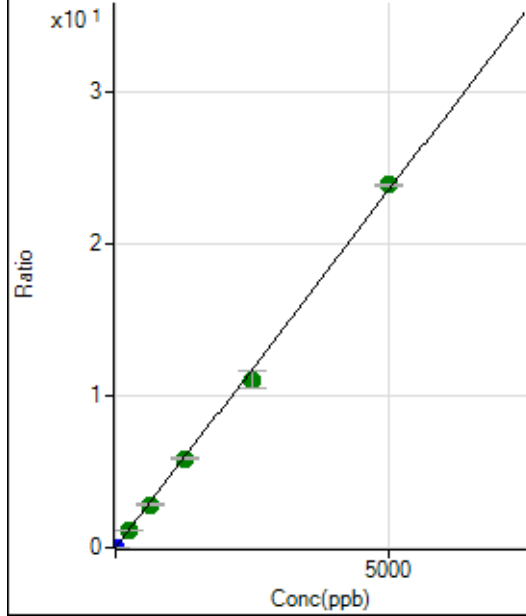
$$DL = 0.0213$$

$$BEC = 0.04648$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1622.29	0.0002	P	5.1
2	☐	1.000	0.827	29659.50	0.0041	P	7.0
3	☐	250.000	242.129	7778157.38	1.1405	A	0.6
4	☐	625.000	601.704	19533848.59	2.8338	A	4.7
5	☐	1250.000	1244.516	38348373.25	5.8610	A	1.9
6	☐	2500.000	2351.513	73426371.78	11.0741	A	9.9
7	☐	5000.000	5078.920	143717749.7	23.9182	A	0.8
8	☐			43416.94	0.0095	P	22.5

$$y = 0.0047 * x + 2.2991E-004$$

$$R = 0.9994$$

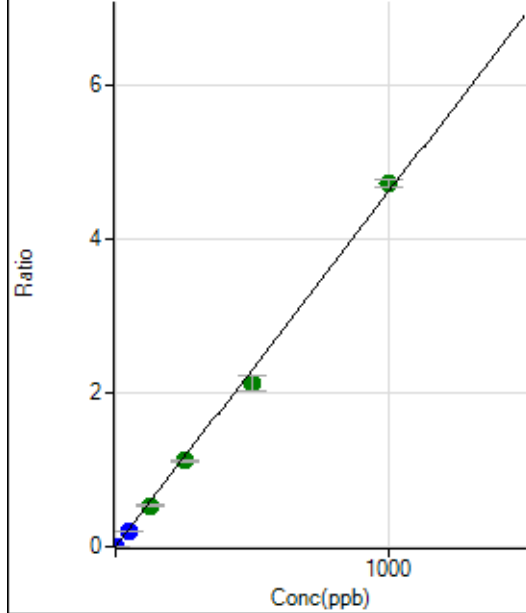
$$DL = 0.007467$$

$$BEC = 0.04882$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1.97	0.0000	P	252.
2	☐	1.000	0.857	28456.46	0.0040	P	7.0
3	☐	50.000	41.585	1310163.36	0.1921	P	0.8
4	☐	125.000	114.121	3633904.96	0.5272	A	4.7
5	☐	250.000	241.416	7297701.82	1.1152	A	1.0
6	☐	500.000	462.176	14155438.49	2.1350	A	10.0
7	☐	1000.000	1022.839	28390406.50	4.7249	A	2.3
8	☐			5011.04	0.0011	P	37.1

$$y = 0.0046 * x + 2.6514E-007$$

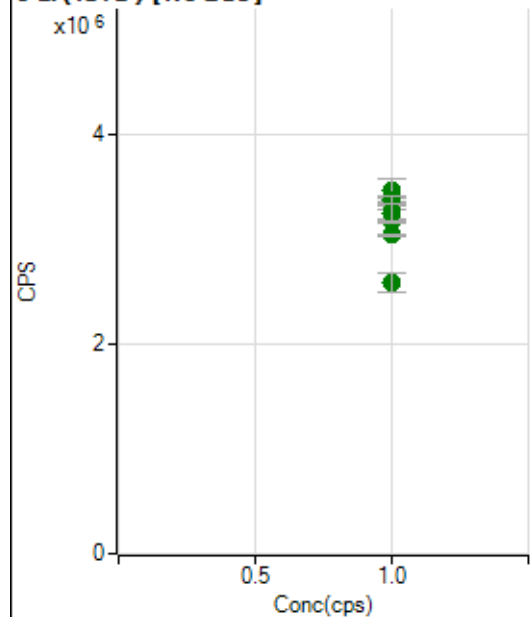
$$R = 0.9989$$

$$DL = 0.0004342$$

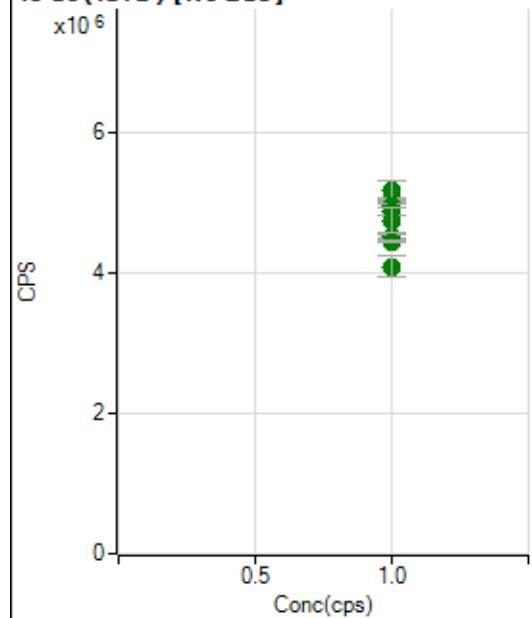
$$BEC = 5.74E-05$$

Weight: <None>

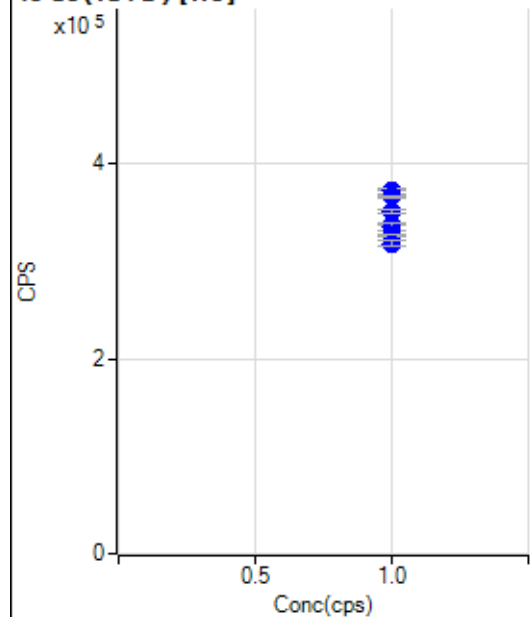
Min Conc: 0

6 Li (ISTD) [No Gas]

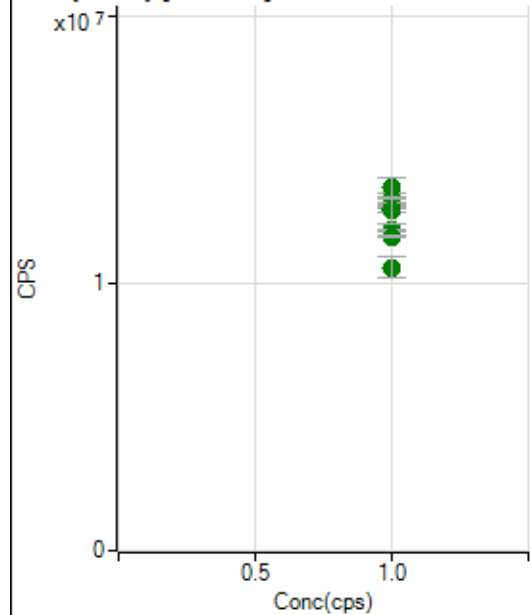
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3342514.40		A	2.9
2	☐	1.000		3462661.20		A	6.2
3	☐	1.000		3337439.50		A	1.1
4	☐	1.000		3373631.41		A	2.5
5	☐	1.000		3170654.64		A	1.4
6	☐	1.000		3254313.15		A	5.2
7	☐	1.000		3038061.80		A	0.9
8	☐	1.000		2586102.39		A	6.9

45 Sc (ISTD) [No Gas]

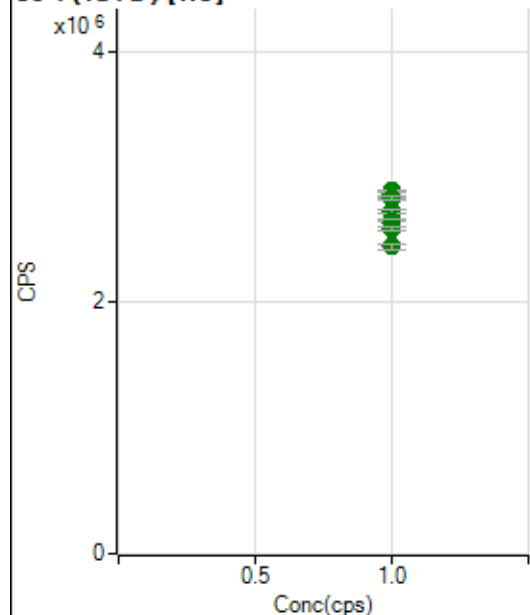
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5040761.00		A	1.6
2	☐	1.000		5169904.64		A	5.4
3	☐	1.000		4962161.07		A	0.7
4	☐	1.000		4879315.00		A	2.0
5	☐	1.000		4511321.39		A	1.1
6	☐	1.000		4750787.95		A	7.6
7	☐	1.000		4441620.45		A	0.5
8	☐	1.000		4090121.29		A	7.1

45 Sc (ISTD) [He]

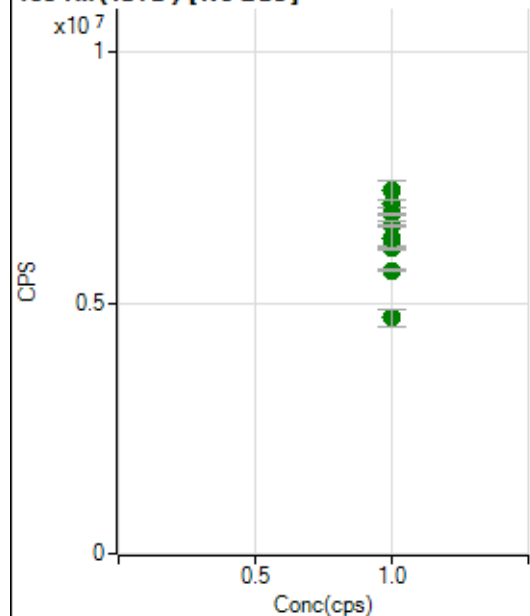
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		368564.66		P	1.9
2	☐	1.000		371817.03		P	1.4
3	☐	1.000		365792.92		P	0.5
4	☐	1.000		350368.83		P	0.9
5	☐	1.000		337305.71		P	0.3
6	☐	1.000		334751.69		P	2.3
7	☐	1.000		326418.88		P	0.8
8	☐	1.000		317811.94		P	1.7

89 Y (ISTD) [No Gas]

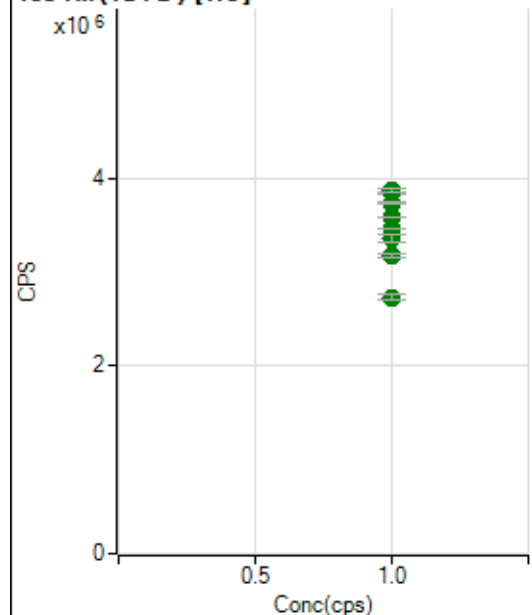
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		13173249.25		A	3.1
2	☐	1.000		13593661.46		A	5.2
3	☐	1.000		12865043.70		A	0.8
4	☐	1.000		12849969.81		A	2.8
5	☐	1.000		12008014.96		A	0.6
6	☐	1.000		12719950.51		A	7.1
7	☐	1.000		11761854.82		A	0.8
8	☐	1.000		10612906.09		A	7.2

89 Y(ISTD) [He]

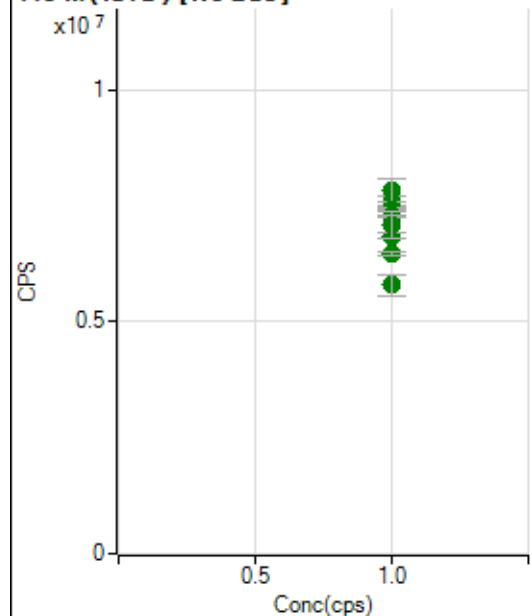
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2860718.43		A	1.4
2	☐	1.000		2890589.09		A	0.6
3	☐	1.000		2833841.80		A	1.0
4	☐	1.000		2727857.13		A	0.8
5	☐	1.000		2653704.78		A	0.8
6	☐	1.000		2638494.96		A	2.0
7	☐	1.000		2587198.00		A	0.9
8	☐	1.000		2444653.31		A	2.4

103 Rh(ISTD) [No Gas]

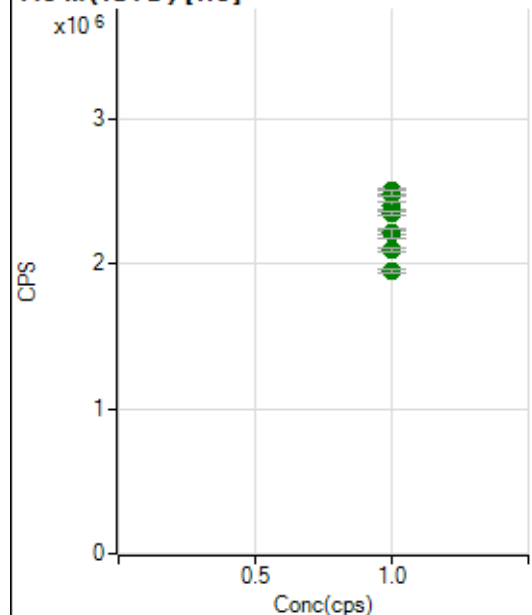
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6994238.16		A	2.4
2	☐	1.000		7240716.14		A	5.2
3	☐	1.000		6778101.15		A	0.1
4	☐	1.000		6577105.81		A	1.7
5	☐	1.000		6109051.92		A	0.5
6	☐	1.000		6304813.24		A	7.6
7	☐	1.000		5660619.33		A	0.6
8	☐	1.000		4703621.42		A	7.5

103 Rh (ISTD) [He]

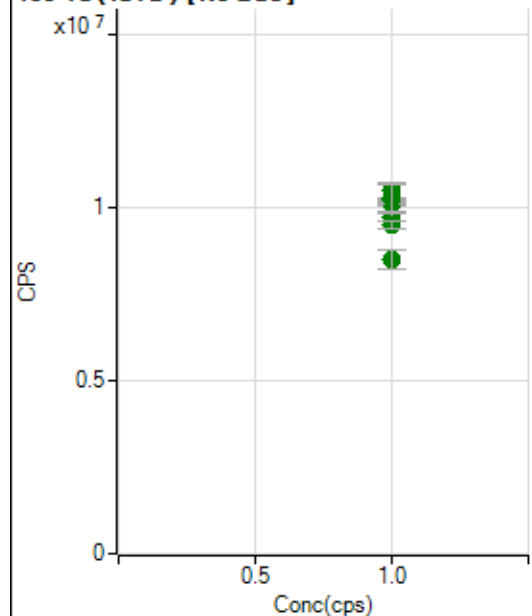
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3844004.14		A	0.6
2	☐	1.000		3867654.84		A	1.0
3	☐	1.000		3738856.96		A	0.8
4	☐	1.000		3584449.32		A	0.3
5	☐	1.000		3459979.22		A	0.2
6	☐	1.000		3360943.53		A	2.5
7	☐	1.000		3175124.50		A	1.8
8	☐	1.000		2733078.19		A	2.2

115 In (ISTD) [No Gas]

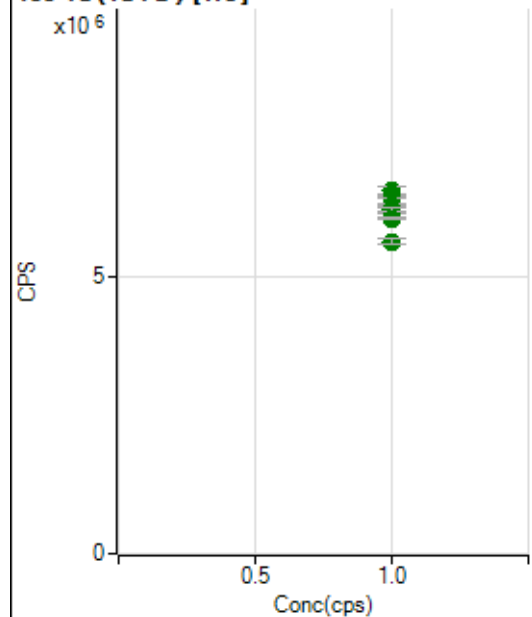
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7603145.56		A	2.4
2	☐	1.000		7819942.96		A	6.4
3	☐	1.000		7437119.54		A	0.7
4	☐	1.000		7276525.10		A	1.0
5	☐	1.000		6853581.86		A	2.0
6	☐	1.000		7094336.00		A	8.3
7	☐	1.000		6446361.64		A	1.3
8	☐	1.000		5785179.11		A	7.3

115 In (ISTD) [He]

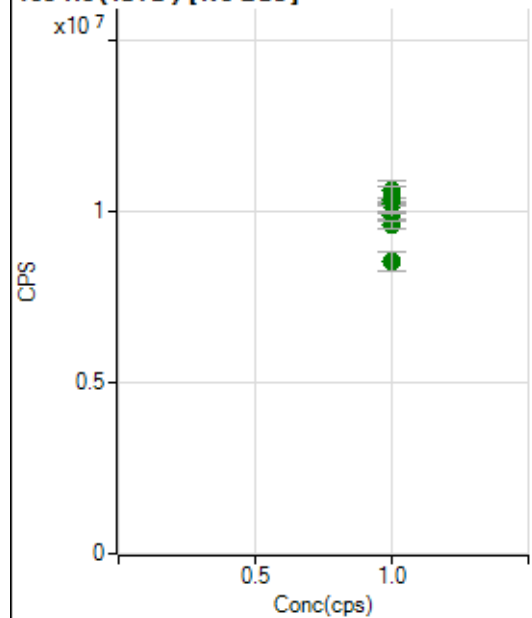
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2502242.14		A	1.7
2	☐	1.000		2485658.33		A	1.2
3	☐	1.000		2400877.05		A	2.0
4	☐	1.000		2343523.92		A	1.0
5	☐	1.000		2217560.07		A	1.0
6	☐	1.000		2211721.23		A	3.0
7	☐	1.000		2096590.55		A	1.5
8	☐	1.000		1948598.06		A	1.8

159 Tb (ISTD) [No Gas]

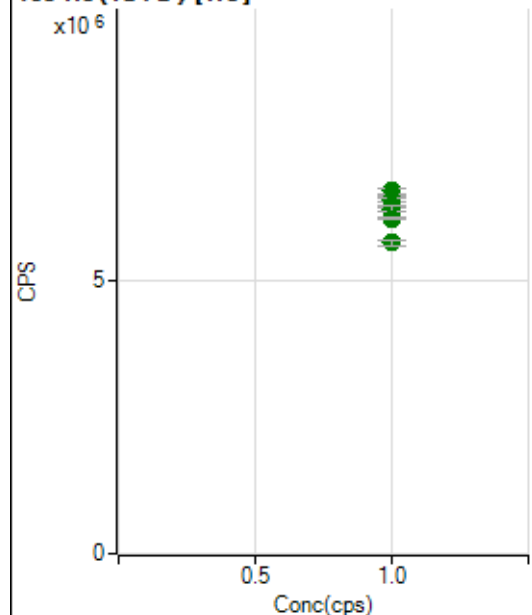
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10170655.75		A	1.8
2	☐	1.000		10500736.58		A	4.9
3	☐	1.000		10145262.84		A	0.4
4	☐	1.000		10219469.64		A	1.6
5	☐	1.000		9752116.45		A	2.0
6	☐	1.000		10299966.79		A	8.0
7	☐	1.000		9518730.90		A	2.2
8	☐	1.000		8509899.04		A	6.4

159 Tb (ISTD) [He]

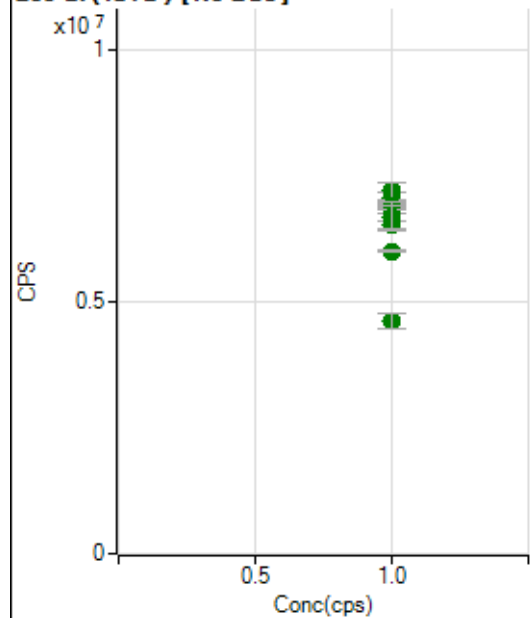
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6530471.57		A	2.8
2	☐	1.000		6465039.97		A	0.3
3	☐	1.000		6402018.10		A	0.2
4	☐	1.000		6269996.99		A	0.5
5	☐	1.000		6150806.85		A	0.9
6	☐	1.000		6202305.95		A	1.4
7	☐	1.000		6039477.89		A	1.0
8	☐	1.000		5614329.15		A	1.8

165 Ho (ISTD) [No Gas]

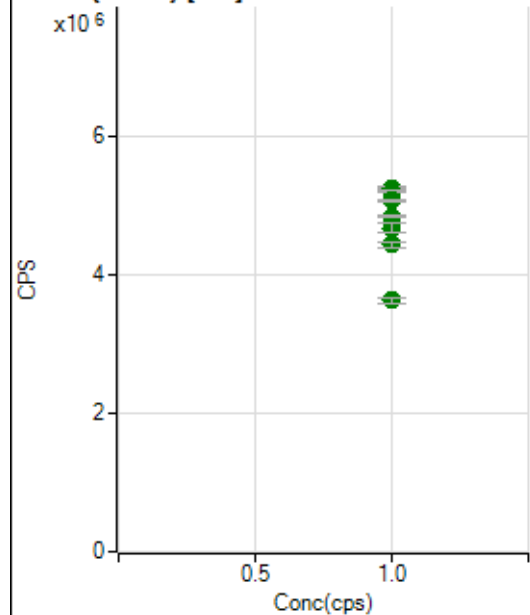
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10254959.85		A	2.5
2	☐	1.000		10579678.94		A	5.9
3	☐	1.000		10222349.36		A	0.5
4	☐	1.000		10199187.63		A	1.4
5	☐	1.000		9845740.69		A	1.4
6	☐	1.000		10334281.03		A	7.2
7	☐	1.000		9578623.68		A	2.4
8	☐	1.000		8513980.36		A	6.6

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6540261.08		A	1.2
2	☐	1.000		6621971.29		A	1.4
3	☐	1.000		6553115.88		A	0.3
4	☐	1.000		6452558.52		A	1.3
5	☐	1.000		6344922.41		A	0.6
6	☐	1.000		6296998.10		A	2.0
7	☐	1.000		6118803.52		A	0.5
8	☐	1.000		5681218.67		A	1.7

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7053429.62		A	3.3
2	☐	1.000		7204725.65		A	5.0
3	☐	1.000		6820328.30		A	1.3
4	☐	1.000		6897991.56		A	2.2
5	☐	1.000		6544839.69		A	2.3
6	☐	1.000		6664696.08		A	7.8
7	☐	1.000		6008632.55		A	0.3
8	☐	1.000		4620603.92		A	6.7

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5216631.80		A	0.7
2	☐	1.000		5232573.85		A	1.1
3	☐	1.000		5192566.21		A	0.8
4	☐	1.000		5070129.16		A	0.4
5	☐	1.000		4833274.75		A	0.7
6	☐	1.000		4666251.53		A	2.7
7	☐	1.000		4425741.15		A	1.7
8	☐	1.000		3623924.08		A	1.9

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7121622-MS.b
Acq. Date-Time 2022-12-16 13:26:27
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		10966	109656.00			0.557	5.000
24		293642	2936420.67			0.674	5.000
25		38969	389685.49			0.483	5.000
26		43423	434227.57			0.547	5.000
59		69998	699981.91			0.523	5.000
113		8144	81437.78			0.562	5.000
115		104411	1044111.41			1.303	5.000
206		27826	278259.21			0.624	5.000
207		25422	254215.91			0.299	5.000
208		59287	592870.25			0.291	5.000
220		0	0.70			81.441	

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

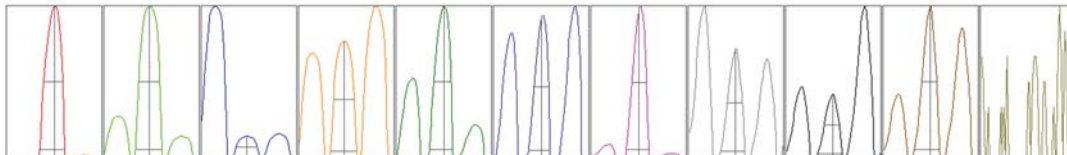
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	10980	11060	10938	10896	10954
24	291024	296595	293712	293322	293558
25	38696	39223	39005	38934	38984
26	43137	43649	43566	43196	43566
59	69510	70506	70076	70070	69829
113	8116	8218	8152	8100	8133
115	104117	106446	105017	103402	103074
206	27720	28033	27971	27616	27789
207	25443	25511	25334	25468	25352
208	59277	59532	59368	59093	59164

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	19510.45	9.05	8.90 - 9.10	
24	459462.11	23.95	23.90 - 24.10	
25	62422.93	24.95	24.90 - 25.10	
26	69517.96	25.95	25.90 - 26.10	
59	133425.52	59.05	58.90 - 59.10	
113	18140.19	113.05	112.90 - 113.10	
115	232334.03	115.05	114.90 - 115.10	
206	59137.51	206.00	205.90 - 206.10	
207	53805.13	207.00	206.90 - 207.10	
208	127387.78	208.00	207.90 - 208.10	
220	0.00	220.10	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.60	0.780	0.900	
24	0.66	0.833	0.900	
25	0.65	0.825	0.900	
26	0.65	0.829	0.900	
59	0.54	0.735	0.900	
113	0.46	0.673	0.900	
115	0.45	0.710	0.900	
206	0.48	0.766	0.900	
207	0.48	0.774	0.900	
208	0.47	0.797	0.900	
220	0.40	0.400		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.87 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	8.2 V	Deflect	15.6 V
Extract 2	-85.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-60 V	Cell Exit	-50 V		

Cell Parameters

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

QP Parameters

Mass Gain	122	Axis Gain	1.0003	QP Bias	-3.0 V
Mass Offset	124	Axis Offset	0.00		

Hardware Settings

Torch

Torch H	-0.3 mm	Torch V	0.7 mm
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EM

Discriminator	3.2 mV	Analog HV	2249 V	Pulse HV	1497 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		21346	213457.57			0.609	
89		71722	717224.20			0.664	
205		27351	273509.47			0.863	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	21496	21144	21408	21353	21329
89	72451	71160	71570	71581	71851
205	27563	26974	27432	27278	27508

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.87 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	8.5 V	Deflect	3.2 V
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Extract 2	-90.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-60 V	Cell Exit	-60 V		

Cell Parameters

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

QP Parameters

Mass Gain	122	Axis Gain	1.0003	QP Bias	-13.0 V
Mass Offset	124	Axis Offset	0.00		

Hardware Settings

Torch

Torch H	-0.3 mm	Torch V	0.7 mm
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EM

Discriminator	3.2 mV	Analog HV	2249 V	Pulse HV	1497 V
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