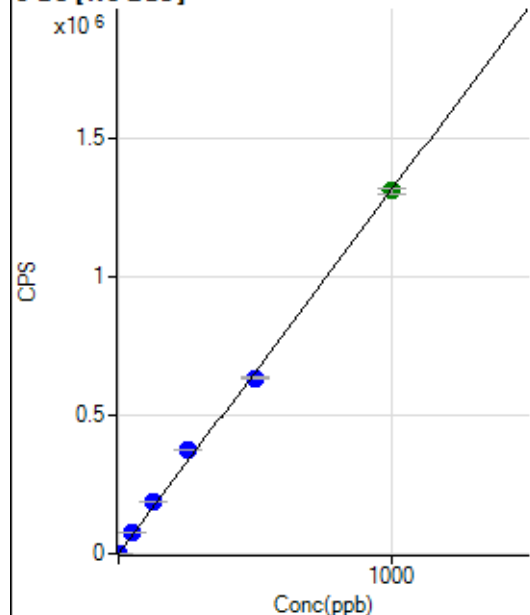


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8081023MS.b\
Analysis File: P8081023MS.batch.bin
DA Date-Time: 2023-08-10 12:32:31
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2023-08-10 10:05:58
2	006CALS.d	S02	2023-08-10 10:12:09
3	007CALS.d	S03	2023-08-10 10:15:14
4	008CALS.d	S04	2023-08-10 10:18:15
5	009CALS.d	S05	2023-08-10 10:21:14
6	011CALS.d	S06	2023-08-10 10:27:13
7	013CALS.d	S07	2023-08-10 10:33:16
8	014CALS.d	S08	2023-08-10 10:36:17

9 Be [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	47.08		P	22.9
2	☐	1.000	1.195	1619.06		P	3.2
3	☐	50.000	60.267	79320.15		P	0.7
4	☐	125.000	144.037	189509.20		P	1.2
5	☐	250.000	284.335	374053.98		P	0.5
6	☐	500.000	481.727	633698.22		P	0.9
7	☐	1000.000	997.660	1312343.68		A	1.5
8	☐			292.51		P	83.0

$$y = 1315.3748 * x + 47.0767$$

$$R = 0.9990$$

$$DL = 0.02457$$

$$BEC = 0.03579$$

Weight: <None>

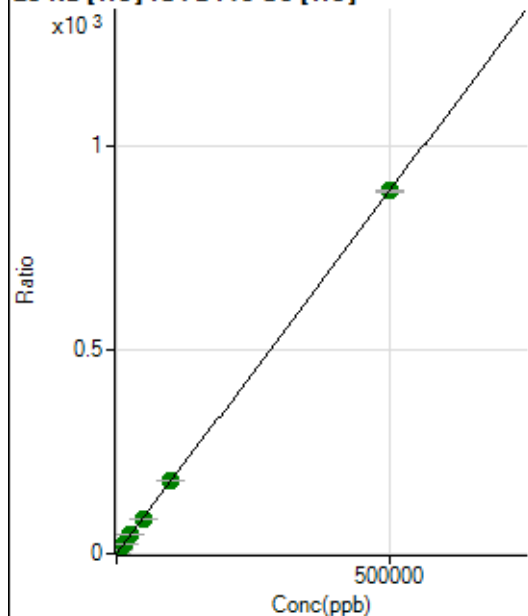
Min Conc: 0

12 C [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2535197.06		A	0.9
2	☐			2457444.24		A	0.9
3	☐			2490678.16		A	1.6
4	☐			2450551.75		A	1.2
5	☐			2437881.28		A	0.4
6	☐			2286125.44		A	0.9
7	☐			2354363.92		A	1.9
8	☐			2335652.35		A	4.1

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			34585.59		P	1.9
2	☐			32333.27		P	1.1
3	☐			33043.21		P	0.7
4	☐			31924.20		P	1.5
5	☐			32300.02		P	0.6
6	☐			31164.24		P	0.3
7	☐			33344.04		P	2.2
8	☐			38272.72		P	2.9

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	19001.72	0.1395	P	1.3
2	☐	500.000	511.950	141938.99	1.0504	P	5.5
3	☐	5000.000	5368.461	1342621.26	9.6915	A	0.9
4	☐	12500.000	12785.208	3144987.35	22.8880	A	1.2
5	☐	25000.000	25770.859	6136318.23	45.9931	A	3.4
6	☐	50000.000	48410.306	10662156.66	86.2749	A	1.4
7	☐	100000.00	100306.39	22702894.08	178.6125	A	0.7
8	☐	500000.00	500048.32	116644095.6	889.8644	A	0.8

$$y = 0.0018 * x + 0.1395$$

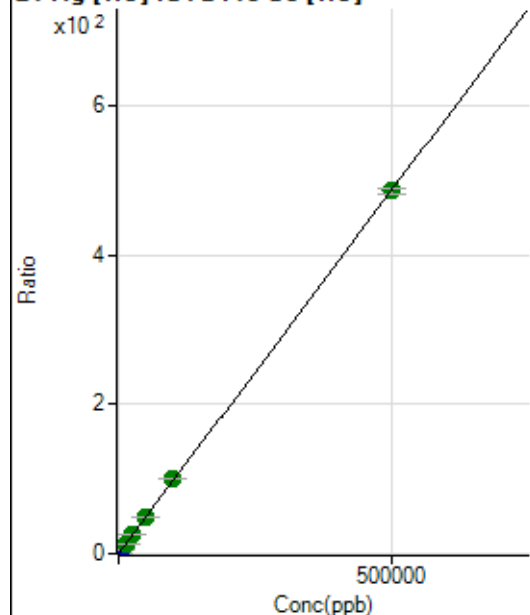
$$R = 1.0000$$

$$DL = 3.004$$

$$BEC = 78.42$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	158.34	0.0012	P	23.8
2	☐	500.000	516.093	67973.24	0.5034	P	7.6
3	☐	5000.000	5542.097	747374.21	5.3945	P	1.4
4	☐	12500.000	13225.788	1768699.67	12.8719	A	1.0
5	☐	25000.000	26776.588	3476830.85	26.0589	A	3.2
6	☐	50000.000	49504.050	5953776.74	48.1761	A	1.1
7	☐	100000.00	102677.41	12700989.95	99.9219	A	0.8
8	☐	500000.00	499401.70	63703029.20	485.9949	A	1.4

$$y = 9.7315E-004 * x + 0.0012$$

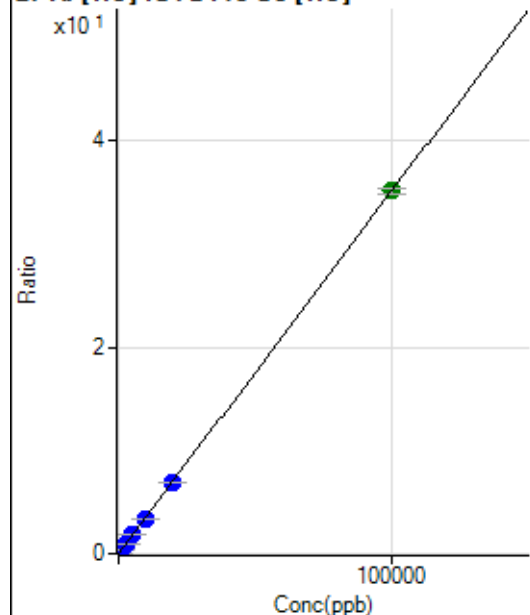
$$R = 1.0000$$

$$DL = 0.854$$

$$BEC = 1.194$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	92.91	0.0007	P	5.9
2	☐	20.000	20.430	1058.24	0.0079	P	12.8
3	☐	1000.000	1026.614	49998.48	0.3609	P	0.2
4	☐	2500.000	2612.417	126043.34	0.9173	P	1.7
5	☐	5000.000	5326.713	249505.86	1.8697	P	2.5
6	☐	10000.000	9431.592	409068.42	3.3101	P	1.2
7	☐	20000.000	19648.115	876349.42	6.8949	P	0.4
8	☐	100000.00	100107.80	4604342.12	35.1269	A	1.4

$$y = 3.5088E-004 * x + 6.8234E-004$$

$$R = 1.0000$$

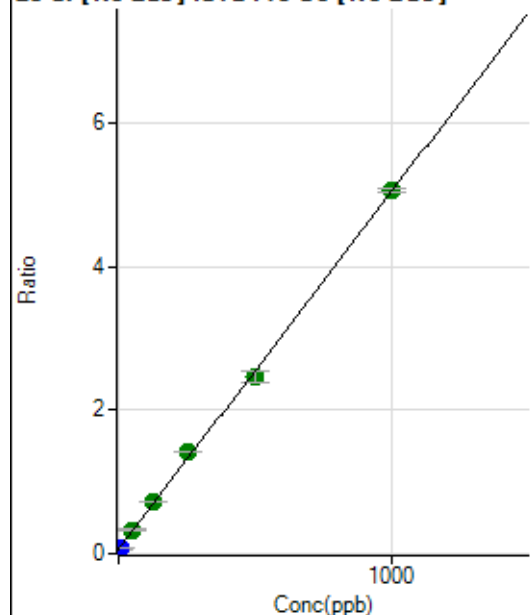
$$DL = 0.3438$$

$$BEC = 1.945$$

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	232243.86	0.0610	P	14.5
2	☐	10.000	1.697	273101.75	0.0695	P	6.6
3	☐	50.000	54.956	1306731.98	0.3346	A	3.6
4	☐	125.000	133.807	2789474.50	0.7271	A	0.1
5	☐	250.000	273.211	5246105.46	1.4210	A	0.0
6	☐	500.000	481.258	9265283.54	2.4565	A	6.1
7	☐	1000.000	1002.303	18399637.22	5.0500	A	1.2
8	☐			637671.56	0.1832	P	16.3

$$y = 0.0050 * x + 0.0610$$

$$R = 0.9993$$

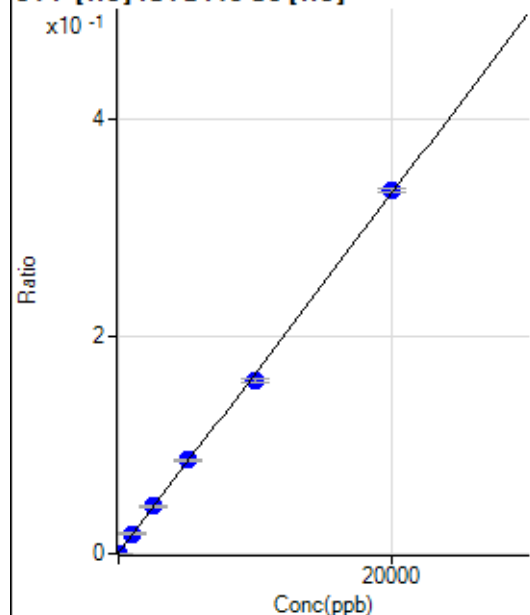
$$DL = 5.351$$

$$BEC = 12.26$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	-0.687	77.78	0.0006	P	53.6
2	☐	0.000	0.687	80.56	0.0006	P	11.1
3	☐	1000.000	1064.853	2525.29	0.0182	P	8.0
4	☐	2500.000	2591.988	5981.93	0.0435	P	3.1
5	☐	5000.000	5185.509	11546.58	0.0865	P	2.6
6	☐	10000.000	9593.831	19722.12	0.1596	P	1.5
7	☐	20000.000	20141.966	42501.90	0.3344	P	1.2
8	☐			116.67	0.0009	P	44.0

$$y = 1.6574E-005 * x + 5.8152E-004$$

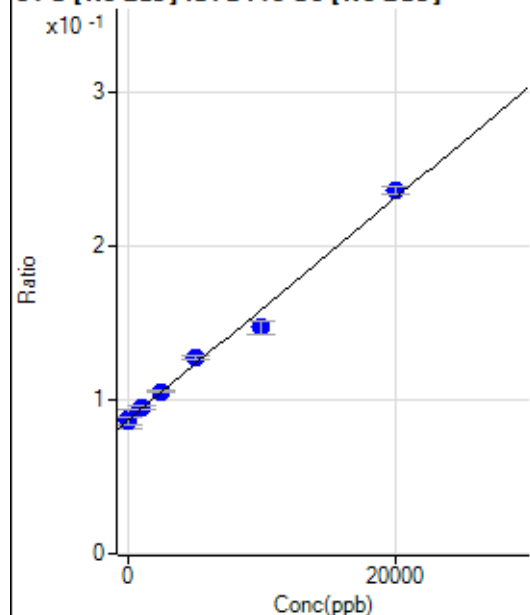
$$R = 0.9996$$

$$DL = 33.6$$

$$BEC = 35.09$$

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	95.766	334706.80	0.0879	P	13.6
2	☐	0.000	-95.766	339979.39	0.0865	P	6.7
3	☐	1000.000	1115.548	371901.23	0.0952	P	3.6
4	☐	2500.000	2554.727	405150.94	0.1056	P	1.7
5	☐	5000.000	5644.932	472181.29	0.1279	P	1.5
6	☐	10000.000	8317.387	555343.19	0.1472	P	5.4
7	☐	20000.000	20667.455	860856.66	0.2363	P	2.0
8	☐			276209.90	0.0791	P	6.5

$$y = 7.2148\text{E-}006 * x + 0.0872$$

$$R = 0.9943$$

$$DL = 3681$$

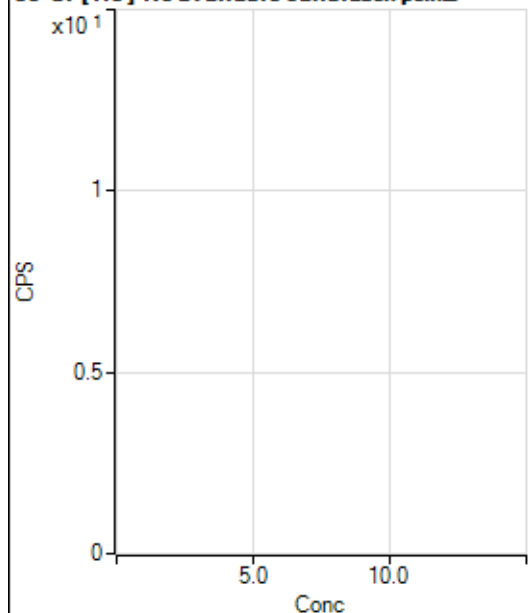
$$BEC = 1.208\text{E}+04$$

Weight: <None>

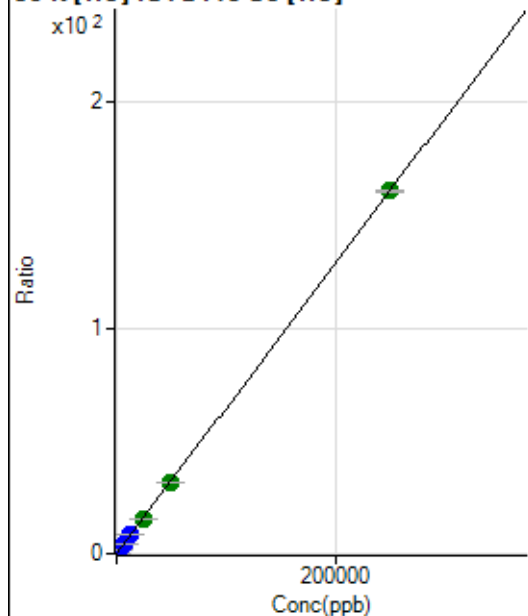
Min Conc: 0

35 Cl [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			159788.28		P	1.6
2	☐			150165.09		P	1.9
3	☐			155944.84		P	1.3
4	☐			151532.03		P	2.1
5	☐			151467.30		P	2.4
6	☐			139506.90		P	1.9
7	☐			141661.19		P	1.2
8	☐			154344.45		P	2.9

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1238.97		P	7.4
2	☐			1133.41		P	15.9
3	☐			1108.40		P	5.4
4	☐			1147.30		P	3.6
5	☐			1050.06		P	3.5
6	☐			1013.96		P	11.2
7	☐			1030.62		P	10.8
8	☐			1272.31		P	14.5

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	10656.94	0.0783	P	0.4
2	☐	500.000	481.172	52259.16	0.3871	P	8.5
3	☐	2500.000	2577.683	240067.98	1.7329	P	0.3
4	☐	6250.000	6270.919	563839.09	4.1035	P	1.4
5	☐	12500.000	12706.504	1098916.57	8.2345	P	2.2
6	☐	25000.000	23785.031	1896581.06	15.3458	A	1.4
7	☐	50000.000	48710.396	3984071.53	31.3453	A	1.2
8	☐	250000.00	250367.83	21076361.93	160.7887	A	0.6

$$y = 6.4190E-004 * x + 0.0783$$

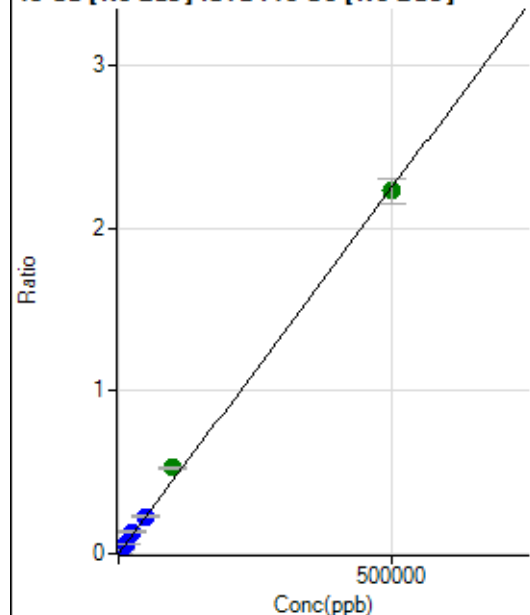
$$R = 1.0000$$

$$DL = 1.629$$

$$BEC = 121.9$$

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	192.48	0.0001	P	17.9
2	☐	500.000	467.222	8443.52	0.0021	P	7.7
3	☐	5000.000	5875.759	103273.90	0.0264	P	2.7
4	☐	12500.000	14345.556	247384.56	0.0645	P	0.4
5	☐	25000.000	30028.358	498033.19	0.1349	P	1.6
6	☐	50000.000	51019.245	864216.84	0.2292	P	6.8
7	☐	100000.00	117783.27	1927527.84	0.5291	A	1.4
8	☐	500000.00	496035.13	7780912.24	2.2279	A	7.2

$$y = 4.4913\text{E-}006 * x + 5.0685\text{E-}005$$

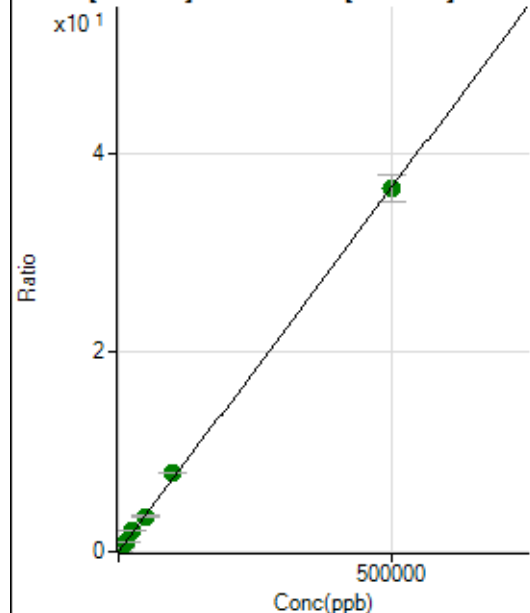
$$R = 0.9993$$

$$DL = 6.069$$

$$BEC = 11.29$$

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	21069.80	0.0055	P	13.6
2	☐	500.000	461.748	154363.52	0.0393	P	6.1
3	☐	5000.000	5646.687	1632521.07	0.4180	A	3.3
4	☐	12500.000	13627.084	3840501.01	1.0010	A	0.5
5	☐	25000.000	28101.909	7598348.55	2.0583	A	1.8
6	☐	50000.000	48512.500	13387264.63	3.5493	A	6.0
7	☐	100000.00	107897.41	28738165.49	7.8873	A	0.8
8	☐	500000.00	498379.56	127145824.4	36.4116	A	7.6

$$y = 7.3049\text{E-}005 * x + 0.0055$$

$$R = 0.9998$$

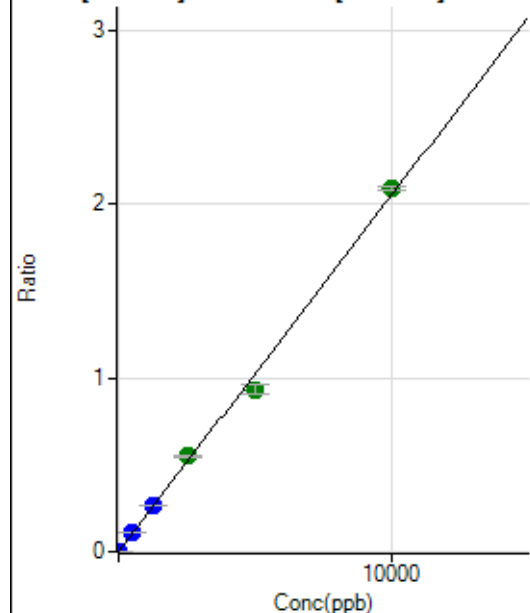
$$DL = 30.89$$

$$BEC = 75.73$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	111.12	0.0000	P	13.1
2	☐	5.000	5.163	4272.97	0.0011	P	11.7
3	☐	500.000	536.004	429930.07	0.1101	P	4.3
4	☐	1250.000	1303.034	1026820.58	0.2676	P	0.6
5	☐	2500.000	2673.003	2026756.73	0.5490	A	1.8
6	☐	5000.000	4540.702	3517195.31	0.9325	A	6.3
7	☐	10000.000	10177.969	7615785.24	2.0902	A	1.0
8	☐			1033.55	0.0003	P	35.2

$$y = 2.0537E-004 * x + 2.9151E-005$$

$$R = 0.9983$$

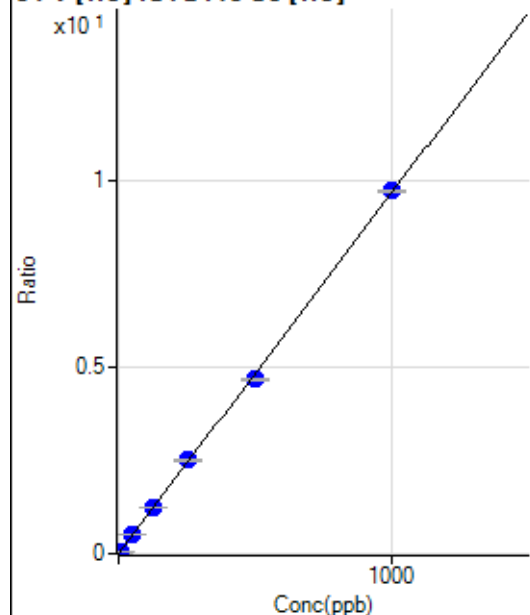
$$DL = 0.05595$$

$$BEC = 0.1419$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	15.56	0.0001	P	61.7
2	☐	5.000	5.048	6606.03	0.0489	P	7.9
3	☐	50.000	52.174	69914.06	0.5047	P	1.0
4	☐	125.000	126.483	168084.35	1.2233	P	1.7
5	☐	250.000	258.834	333981.41	2.5032	P	3.3
6	☐	500.000	482.746	576953.52	4.6686	P	1.4
7	☐	1000.000	1006.124	1236679.04	9.7300	P	0.7
8	☐			314.45	0.0024	P	1.3

$$y = 0.0097 * x + 1.1415E-004$$

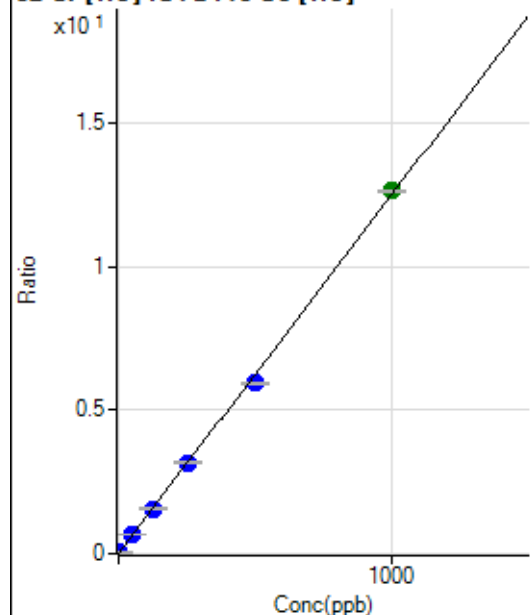
$$R = 0.9997$$

$$DL = 0.02184$$

$$BEC = 0.0118$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1141.17	0.0084	P	3.8
2	☐	2.000	2.043	4578.55	0.0339	P	8.4
3	☐	50.000	51.364	90124.08	0.6506	P	0.2
4	☐	125.000	125.190	216206.80	1.5736	P	2.0
5	☐	250.000	253.872	424634.94	3.1824	P	2.9
6	☐	500.000	474.766	734605.42	5.9441	P	1.2
7	☐	1000.000	1011.557	1608504.27	12.6554	A	0.5
8	☐			10248.18	0.0782	P	1.0

$$y = 0.0125 * x + 0.0084$$

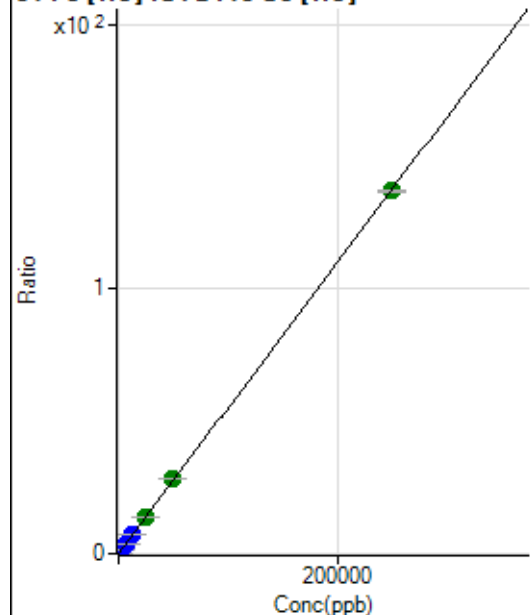
$$R = 0.9995$$

$$DL = 0.07631$$

$$BEC = 0.6703$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	425.94	0.0031	P	5.9
2	☐	50.000	53.826	4410.02	0.0327	P	12.3
3	☐	2500.000	2673.878	204028.18	1.4727	P	1.1
4	☐	6250.000	6472.914	489249.36	3.5607	P	1.4
5	☐	12500.000	13111.653	961939.75	7.2093	P	3.0
6	☐	25000.000	25497.865	1732475.89	14.0168	A	0.3
7	☐	50000.000	52071.042	3638003.21	28.6215	A	0.6
8	☐	250000.00	249498.11	17974356.19	137.1279	A	0.8

$$y = 5.4960E-004 * x + 0.0031$$

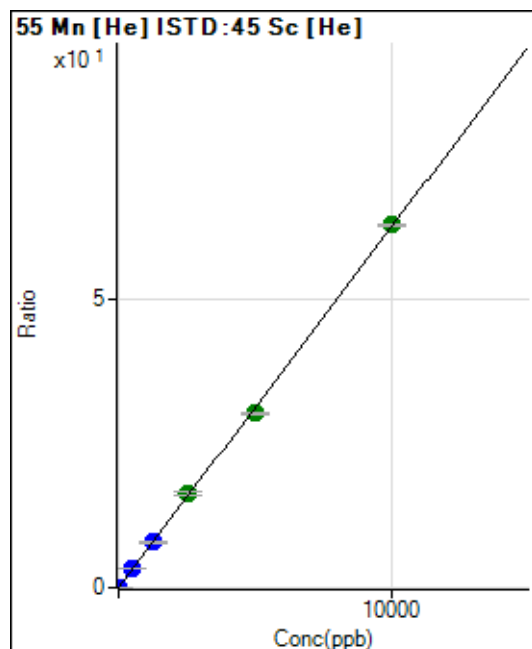
$$R = 1.0000$$

$$DL = 1.012$$

$$BEC = 5.69$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	64.44	0.0005	P	3.5
2	☐	1.000	1.054	952.26	0.0070	P	3.7
3	☐	500.000	516.183	445726.13	3.2175	P	0.5
4	☐	1250.000	1256.933	1076443.10	7.8340	P	1.1
5	☐	2500.000	2596.081	2158602.94	16.1799	A	3.6
6	☐	5000.000	4832.178	3722508.87	30.1158	A	1.4
7	☐	10000.000	10058.215	7967867.11	62.6858	A	0.3
8	☐			5869.04	0.0448	P	1.5

$$y = 0.0062 * x + 4.7326E-004$$

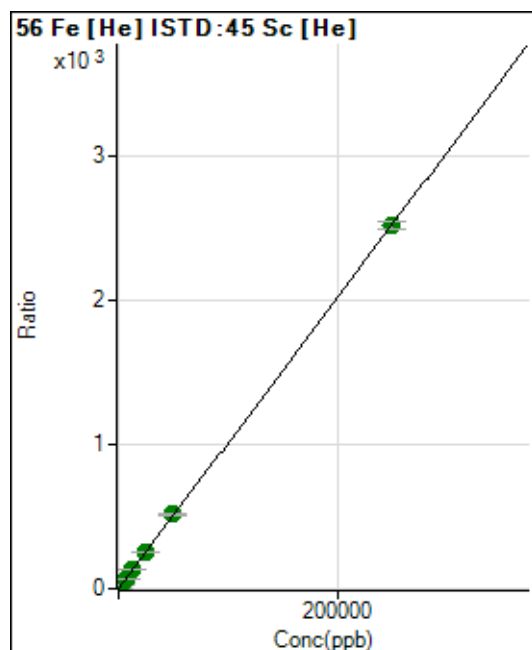
$$R = 0.9997$$

$$DL = 0.007981$$

$$BEC = 0.07594$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	3276.36	0.0241	P	7.2
2	☐	50.000	51.003	72578.07	0.5372	P	6.1
3	☐	2500.000	2655.065	3703879.42	26.7366	A	0.4
4	☐	6250.000	6469.153	8946233.24	65.1100	A	1.5
5	☐	12500.000	13193.258	17710726.09	132.7611	A	4.0
6	☐	25000.000	24601.411	30593647.91	247.5382	A	0.7
7	☐	50000.000	51193.479	65472604.70	515.0802	A	1.5
8	☐	250000.00	249759.47	329350185.1	2512.847	A	2.1

$$y = 0.0101 * x + 0.0241$$

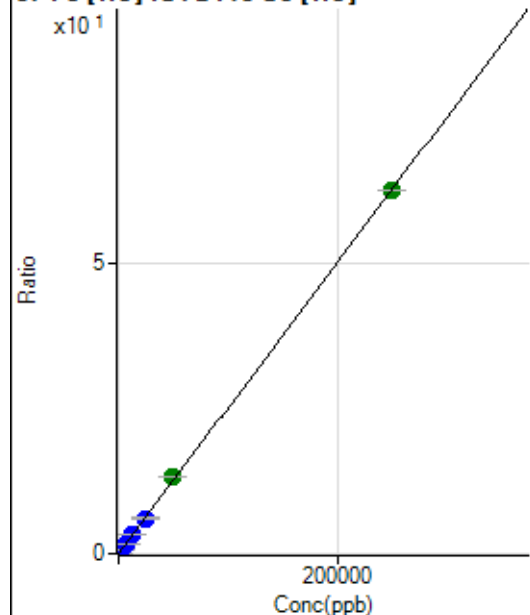
$$R = 1.0000$$

$$DL = 0.5144$$

$$BEC = 2.391$$

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	114.82	0.0008	P	11.8
2	☐	50.000	54.686	1964.99	0.0145	P	3.4
3	☐	2500.000	2635.970	91523.56	0.6607	P	0.5
4	☐	6250.000	6451.311	222011.60	1.6157	P	0.8
5	☐	12500.000	13074.528	436867.51	3.2736	P	2.5
6	☐	25000.000	24284.589	751315.01	6.0796	P	1.7
7	☐	50000.000	52500.367	1670436.27	13.1424	A	0.3
8	☐	250000.00	249536.34	8188088.03	62.4633	A	0.0

$$y = 2.5031\text{E-}004 * x + 8.4282\text{E-}004$$

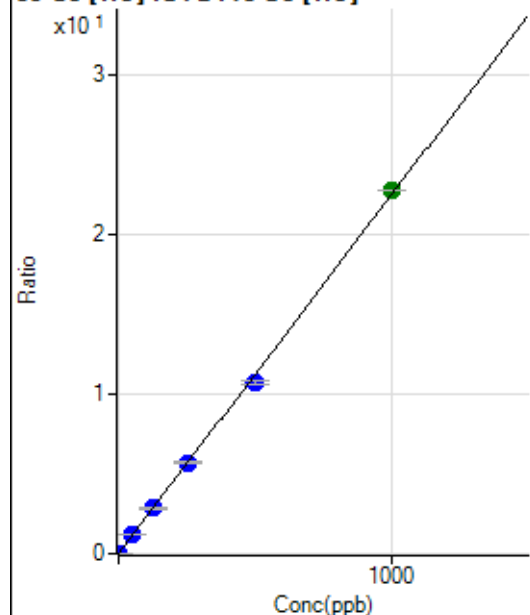
$$R = 0.9999$$

$$DL = 1.191$$

$$BEC = 3.367$$

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	57.78	0.0004	P	25.6
2	☐	1.000	1.029	3188.17	0.0236	P	6.0
3	☐	50.000	51.795	161616.60	1.1666	P	0.7
4	☐	125.000	126.036	389967.01	2.8381	P	1.4
5	☐	250.000	254.177	763550.24	5.7231	P	3.5
6	☐	500.000	475.920	1324336.56	10.7156	P	1.5
7	☐	1000.000	1010.776	2892602.21	22.7576	A	0.1
8	☐			6767.23	0.0516	P	1.8

$$y = 0.0225 * x + 4.2392\text{E-}004$$

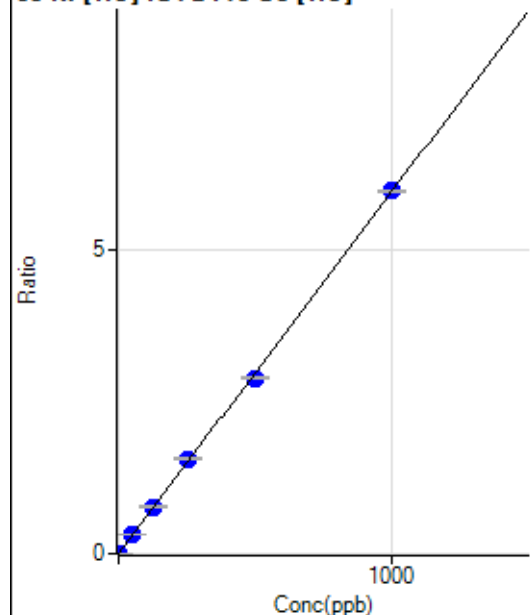
$$R = 0.9996$$

$$DL = 0.01445$$

$$BEC = 0.01883$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	47.78	0.0004	P	4.5
2	☐	1.000	1.099	927.82	0.0069	P	13.2
3	☐	50.000	53.442	44045.82	0.3179	P	1.5
4	☐	125.000	130.014	106200.54	0.7729	P	1.8
5	☐	250.000	262.373	208060.09	1.5595	P	3.4
6	☐	500.000	485.765	356785.45	2.8869	P	0.9
7	☐	1000.000	1003.225	757770.82	5.9618	P	0.4
8	☐			4087.29	0.0312	P	3.9

$$y = 0.0059 * x + 3.5090E-004$$

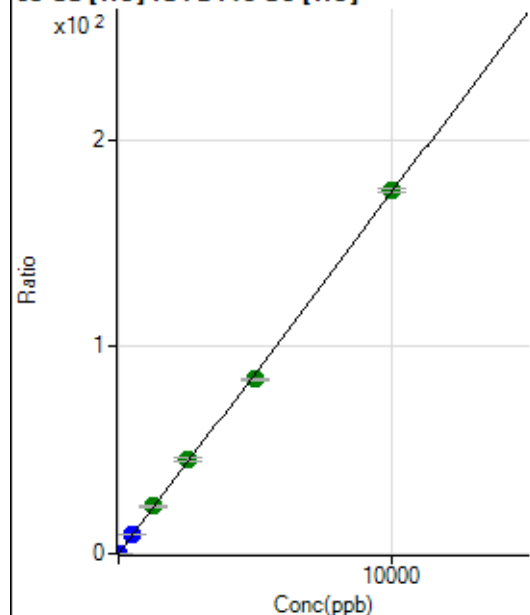
$$R = 0.9998$$

$$DL = 0.008038$$

$$BEC = 0.05905$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	635.58	0.0047	P	9.1
2	☐	2.000	2.112	5605.60	0.0415	P	6.4
3	☐	500.000	526.926	1273451.85	9.1924	P	0.5
4	☐	1250.000	1312.095	3144074.95	22.8830	A	2.0
5	☐	2500.000	2600.369	6049635.53	45.3460	A	3.7
6	☐	5000.000	4832.506	10413979.29	84.2667	A	1.3
7	☐	10000.000	10049.547	22271353.28	175.2336	A	1.1
8	☐			10099.23	0.0771	P	3.4

$$y = 0.0174 * x + 0.0047$$

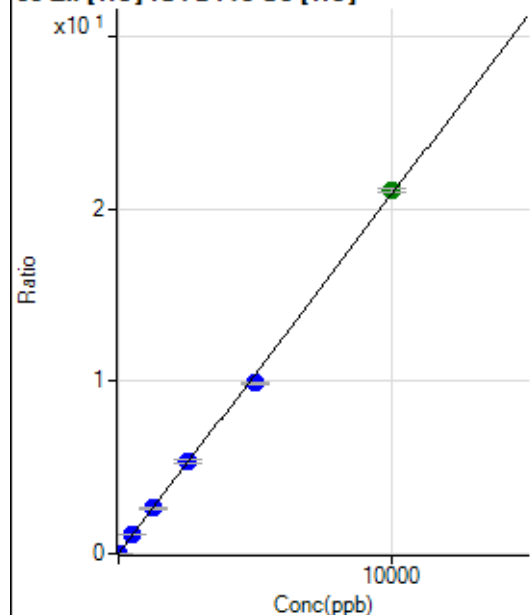
$$R = 0.9997$$

$$DL = 0.07288$$

$$BEC = 0.2676$$

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	117.78	0.0009	P	9.0
2	☐	2.000	2.370	783.36	0.0058	P	13.2
3	☐	500.000	523.384	151025.83	1.0901	P	0.8
4	☐	1250.000	1265.982	362137.53	2.6356	P	1.4
5	☐	2500.000	2553.224	709012.31	5.3146	P	3.8
6	☐	5000.000	4758.422	1223940.01	9.9040	P	1.4
7	☐	10000.000	10104.316	2673136.54	21.0297	A	1.0
8	☐			5378.85	0.0410	P	4.8

$$y = 0.0021 * x + 8.6503E-004$$

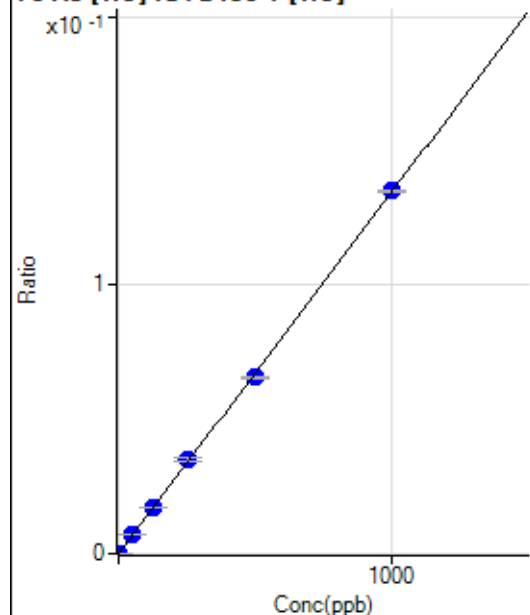
$$R = 0.9995$$

$$DL = 0.112$$

$$BEC = 0.4156$$

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	4.67	0.0000	P	24.3
2	☐	1.000	1.055	156.69	0.0001	P	9.7
3	☐	50.000	52.639	7874.00	0.0071	P	1.6
4	☐	125.000	128.180	19061.72	0.0173	P	0.5
5	☐	250.000	259.042	37528.61	0.0349	P	3.5
6	☐	500.000	486.966	64984.09	0.0656	P	0.2
7	☐	1000.000	1003.727	138650.46	0.1351	P	0.7
8	☐			54.01	0.0001	P	11.8

$$y = 1.3462E-004 * x + 4.2632E-006$$

$$R = 0.9998$$

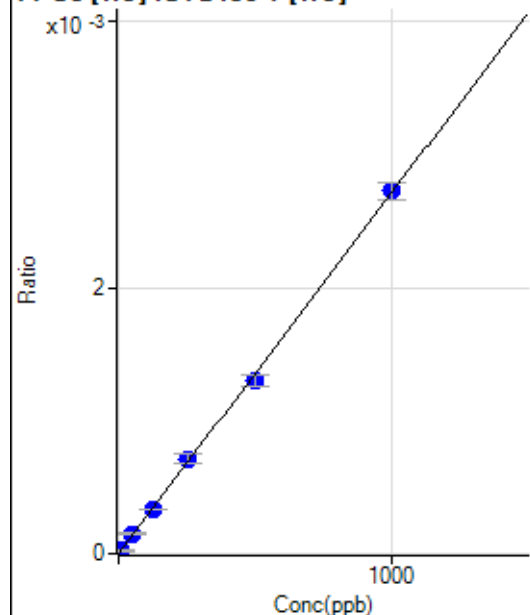
$$DL = 0.02307$$

$$BEC = 0.03167$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	8.367	24.44	0.0000	P	54.4
3	☐	50.000	55.013	165.56	0.0001	P	9.2
4	☐	125.000	122.147	365.57	0.0003	P	2.7
5	☐	250.000	262.720	765.58	0.0007	P	9.2
6	☐	500.000	481.189	1292.30	0.0013	P	6.2
7	☐	1000.000	1006.314	2799.19	0.0027	P	4.9
8	☐			8.89	0.0000	P	22.5

$$y = 2.7098\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9996$$

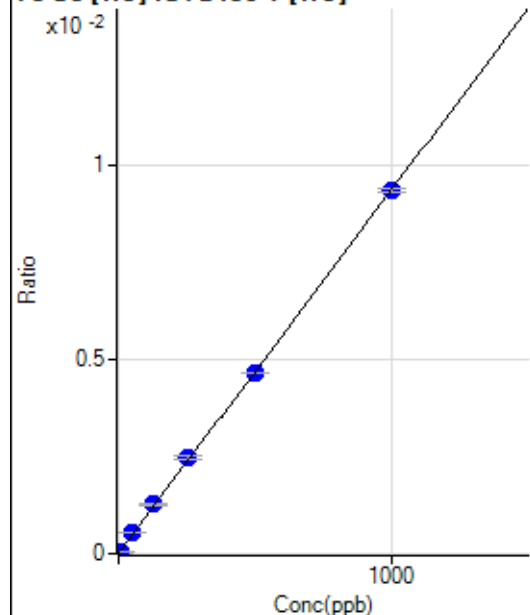
$$\text{DL} = 0$$

$$\text{BEC} = 0$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	18.00	0.0000	P	48.9
2	☐	5.000	4.592	64.01	0.0001	P	13.6
3	☐	50.000	55.961	600.07	0.0005	P	2.9
4	☐	125.000	133.278	1396.21	0.0013	P	1.9
5	☐	250.000	263.074	2667.20	0.0025	P	4.5
6	☐	500.000	496.301	4621.56	0.0047	P	0.4
7	☐	1000.000	997.250	9596.24	0.0094	P	1.2
8	☐			75.01	0.0001	P	10.2

$$y = 9.3613\text{E-}006 * x + 1.6477\text{E-}005$$

$$R = 0.9999$$

$$\text{DL} = 2.581$$

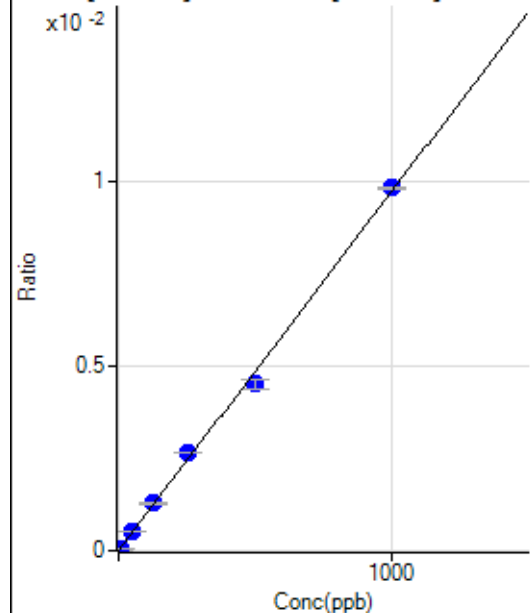
$$\text{BEC} = 1.76$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3339.38		P	3.4
2	☐			3347.72		P	3.6
3	☐			3222.69		P	3.1
4	☐			3289.37		P	5.2
5	☐			3217.12		P	2.7
6	☐			3100.44		P	7.7
7	☐			3147.66		P	3.1
8	☐			4384.14		P	11.3

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	4.17	0.0000	P	523.
2	☐	5.000	5.108	509.54	0.0000	P	5.9
3	☐	50.000	54.327	5426.73	0.0005	P	2.7
4	☐	125.000	131.479	12897.01	0.0013	P	1.8
5	☐	250.000	273.462	25746.14	0.0027	P	0.8
6	☐	500.000	464.732	45369.07	0.0045	P	5.4
7	☐	1000.000	1010.742	96065.13	0.0098	P	0.7
8	☐			519.12	0.0001	P	12.0

$$y = 9.7028E-006 * x + 3.1146E-007$$

$$R = 0.9988$$

$$DL = 0.5045$$

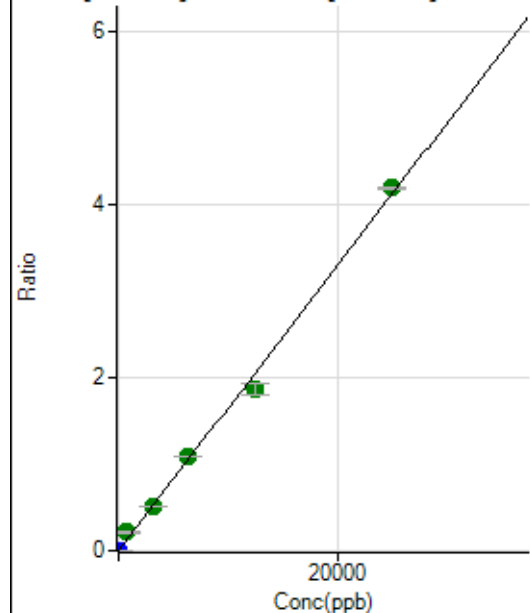
$$BEC = 0.0321$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			244.97		P	6.6
2	☐			235.39		P	7.7
3	☐			234.55		P	4.3
4	☐			213.72		P	17.7
5	☐			228.30		P	3.3
6	☐			230.39		P	1.3
7	☐			217.48		P	9.5
8	☐			194.15		P	6.0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	436.13	0.0000	P	28.0
2	☐	1.000	0.930	2011.30	0.0002	P	13.5
3	☐	625.000	1301.804	2200273.99	0.2139	A	3.3
4	☐	3125.000	3154.066	5237957.32	0.5181	A	0.1
5	☐	6250.000	6624.418	10557149.80	1.0881	A	1.3
6	☐	12500.000	11285.521	18639074.55	1.8537	A	7.1
7	☐	25000.000	25493.082	41016074.18	4.1874	A	0.6
8	☐			4287.17	0.0005	P	9.0

$$y = 1.6425E-004 * x + 4.4863E-005$$

$$R = 0.9977$$

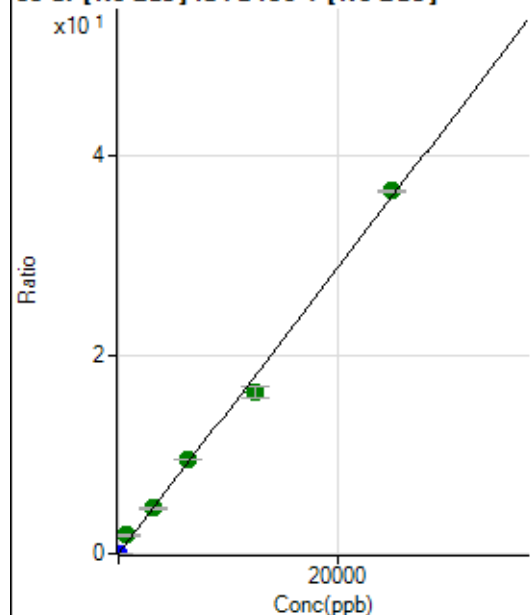
$$DL = 0.2296$$

$$BEC = 0.2731$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	719.49	0.0001	P	5.7
2	☐	1.000	0.978	15036.26	0.0015	P	5.9
3	☐	625.000	1296.469	19113025.78	1.8584	A	4.2
4	☐	3125.000	3172.416	45971249.99	4.5473	A	0.6
5	☐	6250.000	6589.575	91639191.63	9.4454	A	0.5
6	☐	12500.000	11369.125	163861770.3	16.2962	A	7.0
7	☐	25000.000	25457.830	357438224.6	36.4905	A	0.4
8	☐			35888.02	0.0038	P	16.6

$$y = 0.0014 * x + 7.2492E-005$$

$$R = 0.9980$$

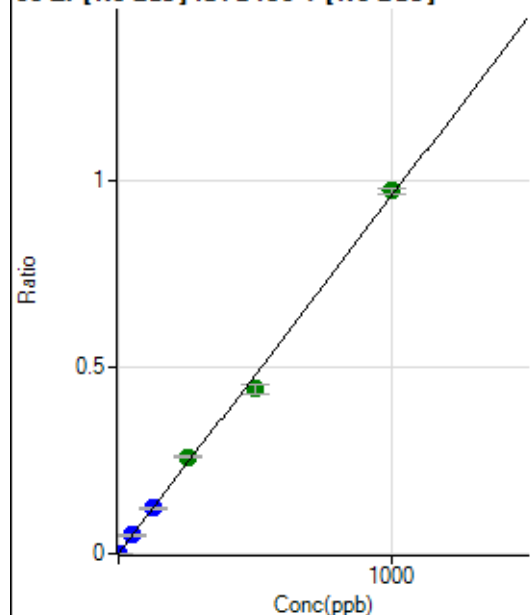
$$DL = 0.008679$$

$$BEC = 0.05057$$

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	355.57	0.0000	P	31.8
2	☐	1.000	0.954	9675.78	0.0009	P	4.6
3	☐	50.000	51.531	507257.27	0.0493	P	3.3
4	☐	125.000	126.633	1224348.73	0.1211	P	0.7
5	☐	250.000	271.383	2517823.10	0.2595	A	0.8
6	☐	500.000	459.794	4421684.82	0.4397	A	6.7
7	☐	1000.000	1014.476	9501770.96	0.9701	A	1.6
8	☐			3989.60	0.0004	P	8.9

$$y = 9.5617E-004 * x + 3.5682E-005$$

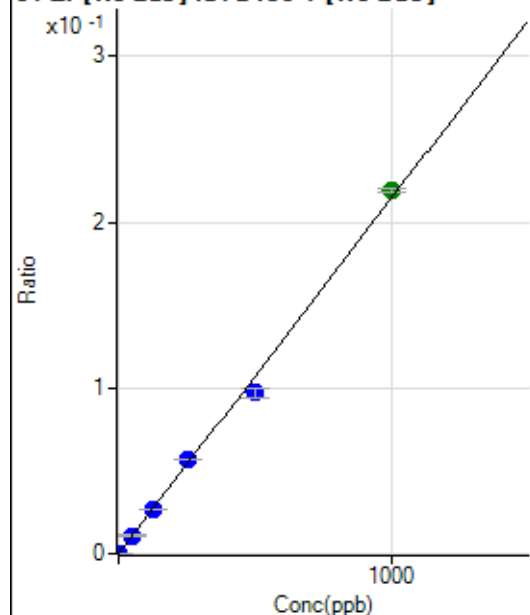
$$R = 0.9986$$

$$DL = 0.03562$$

$$BEC = 0.03732$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	44.44	0.0000	P	58.9
2	☐	1.000	0.937	2091.88	0.0002	P	11.7
3	☐	50.000	51.308	113243.06	0.0110	P	2.7
4	☐	125.000	125.272	271548.10	0.0269	P	0.5
5	☐	250.000	263.820	548734.38	0.0566	P	1.0
6	☐	500.000	452.077	974821.97	0.0969	P	6.2
7	☐	1000.000	1020.407	2142749.61	0.2188	A	1.1
8	☐			919.50	0.0001	P	3.3

$$y = 2.1438\text{E-}004 * x + 4.7033\text{E-}006$$

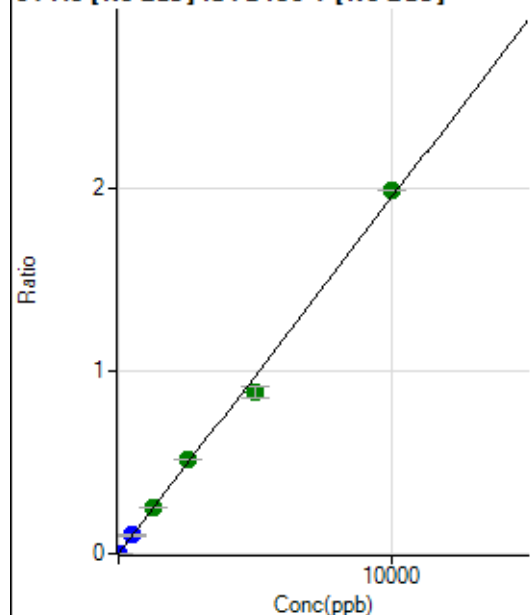
$$R = 0.9982$$

$$DL = 0.03876$$

$$BEC = 0.02194$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	119.45	0.0000	P	19.2
2	☐	5.000	5.675	11379.95	0.0011	P	6.6
3	☐	500.000	521.417	1042720.88	0.1014	P	4.0
4	☐	1250.000	1278.866	2513255.98	0.2486	A	1.1
5	☐	2500.000	2658.945	5015185.49	0.5169	A	1.0
6	☐	5000.000	4529.057	8853856.71	0.8805	A	7.0
7	☐	10000.000	10191.056	19407151.82	1.9813	A	0.2
8	☐			5418.07	0.0006	P	5.9

$$y = 1.9441\text{E-}004 * x + 1.1908\text{E-}005$$

$$R = 0.9982$$

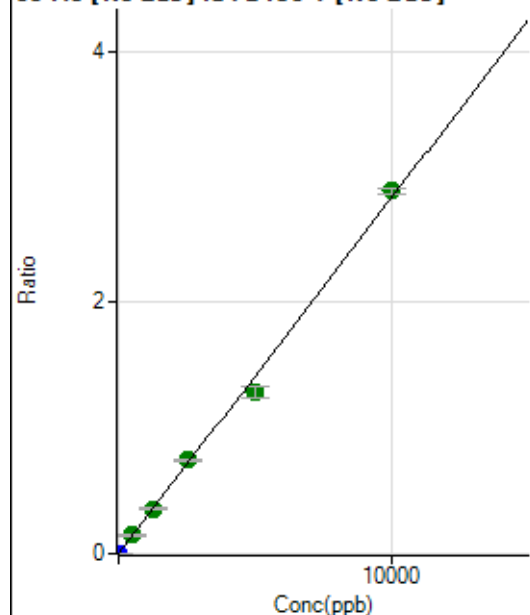
$$DL = 0.03528$$

$$BEC = 0.06125$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	41.67	0.0000	P	34.5
2	☐	5.000	4.881	14151.95	0.0014	P	4.8
3	☐	500.000	514.923	1499890.22	0.1458	A	3.8
4	☐	1250.000	1265.438	3622039.79	0.3584	A	2.0
5	☐	2500.000	2643.229	7262289.92	0.7485	A	1.8
6	☐	5000.000	4528.238	12895808.45	1.2823	A	6.7
7	☐	10000.000	10197.398	28286129.10	2.8878	A	1.5
8	☐			6429.54	0.0007	P	6.5

$$y = 2.8319E-004 * x + 4.3133E-006$$

$$R = 0.9983$$

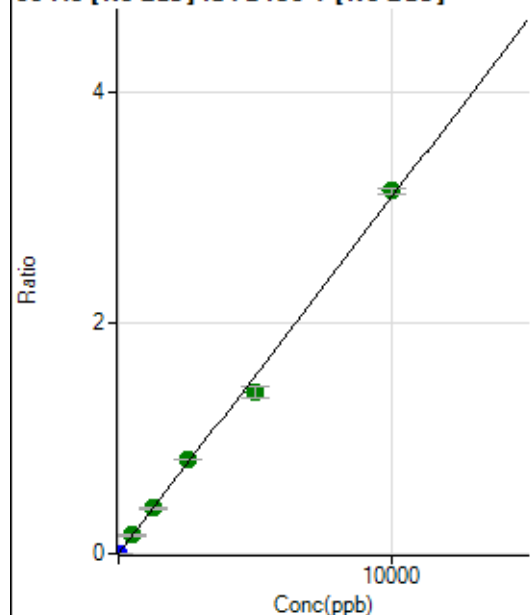
$$DL = 0.01575$$

$$BEC = 0.01523$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	100.00	0.0000	P	17.8
2	☐	5.000	5.097	16151.43	0.0016	P	7.7
3	☐	500.000	517.872	1645830.62	0.1600	A	3.9
4	☐	1250.000	1268.492	3961522.48	0.3919	A	1.6
5	☐	2500.000	2656.547	7963097.40	0.8208	A	1.1
6	☐	5000.000	4547.507	14127632.26	1.4050	A	6.9
7	☐	10000.000	10183.904	30820336.45	3.1464	A	1.4
8	☐			7482.94	0.0008	P	5.3

$$y = 3.0895E-004 * x + 9.8800E-006$$

$$R = 0.9984$$

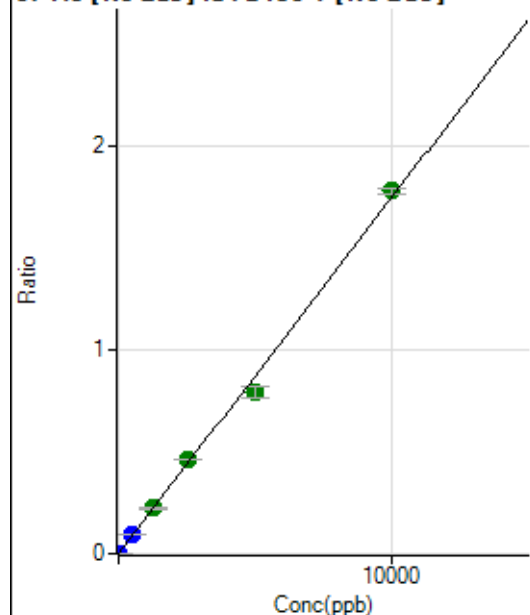
$$DL = 0.01709$$

$$BEC = 0.03198$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	11.11	0.0000	P	173.
2	☐	5.000	4.927	8755.79	0.0009	P	8.1
3	☐	500.000	522.240	935734.86	0.0910	P	3.1
4	☐	1250.000	1270.729	2237436.64	0.2213	A	0.2
5	☐	2500.000	2663.217	4500132.78	0.4638	A	0.4
6	☐	5000.000	4518.548	7912365.72	0.7870	A	7.3
7	☐	10000.000	10196.219	17395172.61	1.7758	A	1.9
8	☐			3964.64	0.0004	P	2.7

$$y = 1.7416E-004 * x + 9.9797E-007$$

$$R = 0.9982$$

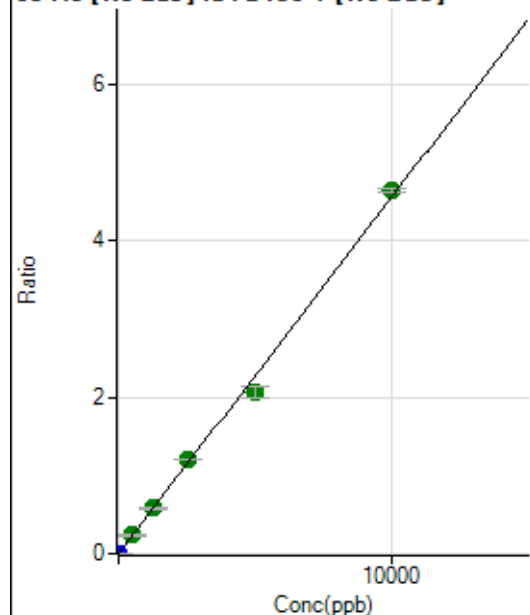
$$DL = 0.02977$$

$$BEC = 0.00573$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	69.45	0.0000	P	53.3
2	☐	5.000	5.048	23540.02	0.0023	P	6.0
3	☐	500.000	518.598	2431422.27	0.2364	A	3.5
4	☐	1250.000	1268.523	5844594.70	0.5781	A	1.6
5	☐	2500.000	2649.005	11713181.86	1.2073	A	0.7
6	☐	5000.000	4551.207	20854148.56	2.0743	A	7.5
7	☐	10000.000	10183.900	45465595.81	4.6414	A	1.1
8	☐			10026.89	0.0011	P	13.1

$$y = 4.5576E-004 * x + 7.1880E-006$$

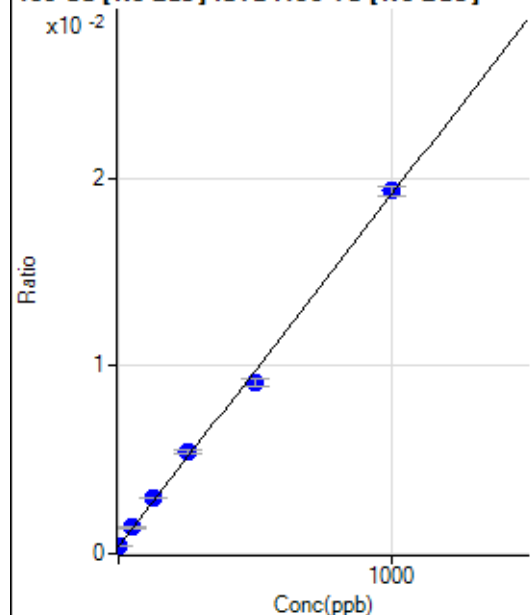
$$R = 0.9984$$

$$DL = 0.02521$$

$$BEC = 0.01577$$

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	3022.65	0.0004	P	8.7
2	☐	1.000	1.183	3214.35	0.0004	P	8.5
3	☐	50.000	53.311	11007.44	0.0014	P	2.4
4	☐	125.000	136.123	23278.59	0.0029	P	1.1
5	☐	250.000	269.672	43040.07	0.0054	P	2.3
6	☐	500.000	466.246	74267.06	0.0091	P	4.1
7	☐	1000.000	1010.403	152967.05	0.0193	P	2.4
8	☐			2944.87	0.0004	P	9.3

$$y = 1.8765E-005 * x + 3.8640E-004$$

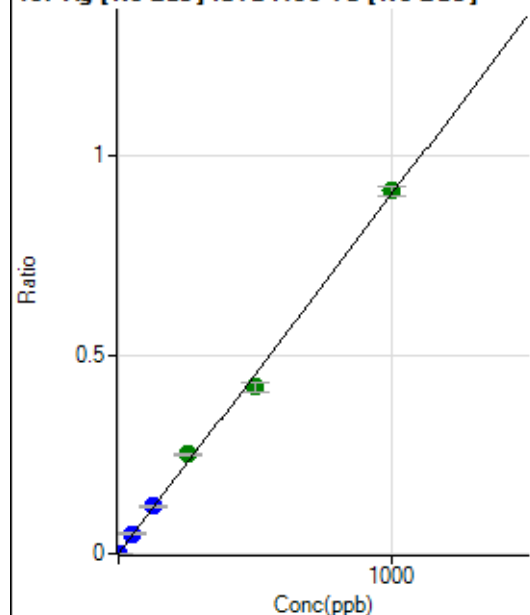
$$R = 0.9989$$

$$DL = 5.377$$

$$BEC = 20.59$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	72.69	0.0000	P	49.1
2	☐	1.000	1.035	7411.94	0.0009	P	1.0
3	☐	50.000	55.039	393989.55	0.0497	P	5.1
4	☐	125.000	131.967	942656.84	0.1191	P	1.6
5	☐	250.000	275.987	1968675.43	0.2491	A	1.0
6	☐	500.000	464.673	3408089.70	0.4194	A	5.7
7	☐	1000.000	1010.044	7208187.21	0.9117	A	2.7
8	☐			1281.76	0.0002	P	6.5

$$y = 9.0263E-004 * x + 9.2115E-006$$

$$R = 0.9987$$

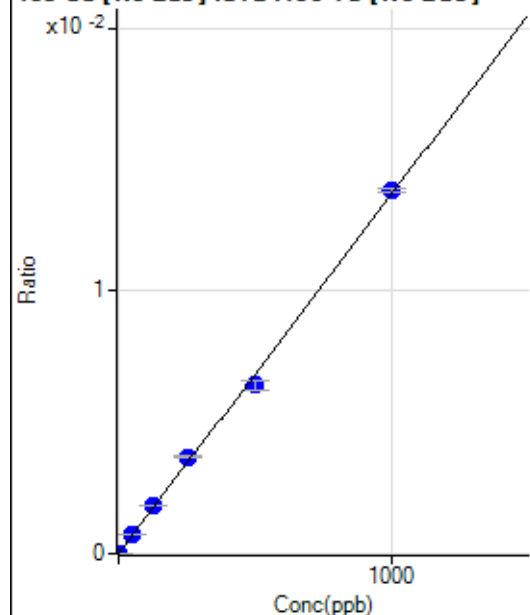
$$DL = 0.01503$$

$$BEC = 0.01021$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	11.11	0.0000	P	69.3
2	☐	1.000	1.047	123.61	0.0000	P	11.4
3	☐	50.000	55.208	6008.32	0.0008	P	3.1
4	☐	125.000	133.990	14524.45	0.0018	P	0.3
5	☐	250.000	268.631	29065.43	0.0037	P	1.6
6	☐	500.000	469.160	52185.82	0.0064	P	5.4
7	☐	1000.000	1009.378	109245.17	0.0138	P	1.1
8	☐			105.56	0.0000	P	49.6

$$y = 1.3685E-005 * x + 1.3600E-006$$

$$R = 0.9991$$

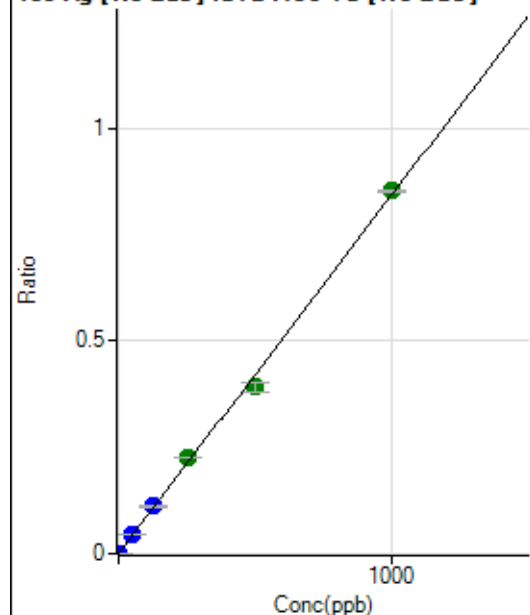
$$DL = 0.2066$$

$$BEC = 0.09938$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	25.00	0.0000	P	35.6
2	☐	1.000	1.054	6990.86	0.0009	P	7.2
3	☐	50.000	55.139	368453.44	0.0465	P	4.1
4	☐	125.000	131.945	879562.94	0.1112	P	1.7
5	☐	250.000	267.959	1783969.66	0.2257	A	0.8
6	☐	500.000	464.347	3178375.70	0.3912	A	5.6
7	☐	1000.000	1012.211	6743374.50	0.8527	A	0.4
8	☐			1194.53	0.0002	P	16.0

$$y = 8.4239E-004 * x + 3.2746E-006$$

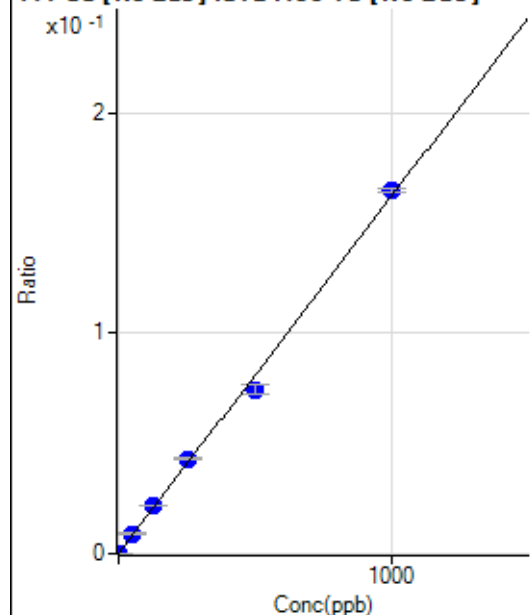
$$R = 0.9989$$

$$DL = 0.004157$$

$$BEC = 0.003887$$

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	301.43	0.0000	P	10.4
2	☐	1.000	1.083	1679.45	0.0002	P	4.2
3	☐	50.000	55.146	71110.50	0.0090	P	5.3
4	☐	125.000	132.681	170331.45	0.0215	P	1.4
5	☐	250.000	266.065	340803.78	0.0431	P	1.1
6	☐	500.000	459.364	604812.39	0.0744	P	5.4
7	☐	1000.000	1015.084	1300264.84	0.1644	P	1.1
8	☐			860.90	0.0001	P	2.9

$$y = 1.6194\text{E-}004 * x + 3.8524\text{E-}005$$

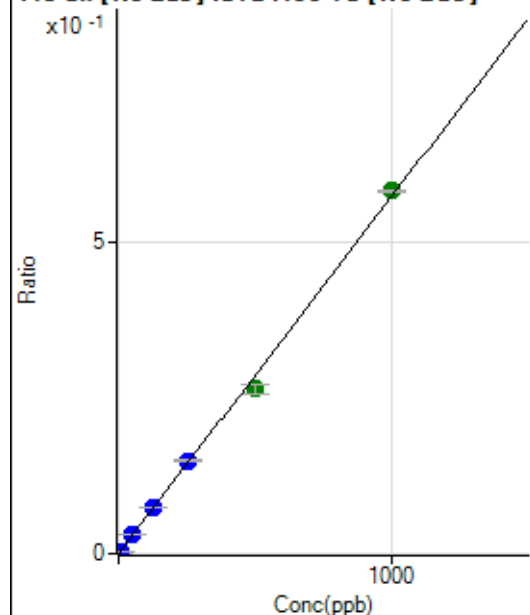
$$R = 0.9986$$

$$DL = 0.0741$$

$$BEC = 0.2379$$

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	700.03	0.0001	P	11.7
2	☐	5.000	4.907	22713.80	0.0029	P	6.2
3	☐	50.000	52.929	240706.97	0.0303	P	4.3
4	☐	125.000	128.364	581456.89	0.0735	P	1.0
5	☐	250.000	260.578	1177934.00	0.1491	P	0.9
6	☐	500.000	460.805	2141363.55	0.2635	A	5.6
7	☐	1000.000	1016.387	4595549.63	0.5811	A	0.8
8	☐			3142.13	0.0004	P	9.9

$$y = 5.7167\text{E-}004 * x + 9.0521\text{E-}005$$

$$R = 0.9988$$

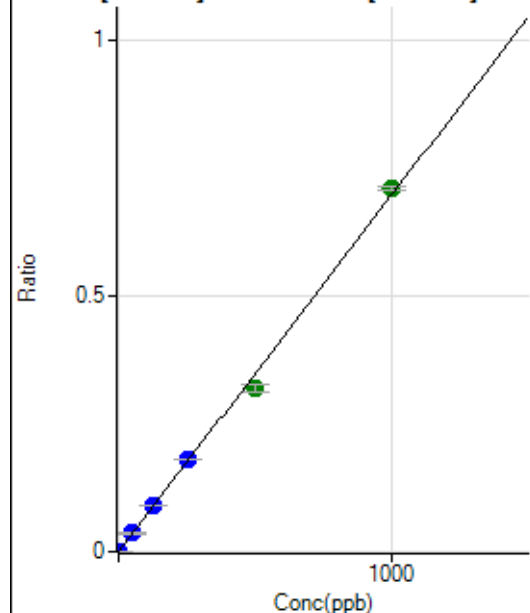
$$DL = 0.05541$$

$$BEC = 0.1583$$

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	33.34	0.0000	P	34.4
2	☐	2.000	1.984	10871.28	0.0014	P	6.3
3	☐	50.000	52.238	288556.90	0.0364	P	4.5
4	☐	125.000	128.328	707312.76	0.0894	P	0.5
5	☐	250.000	258.846	1424676.68	0.1803	P	0.1
6	☐	500.000	459.344	2599621.48	0.3199	A	5.3
7	☐	1000.000	1017.589	5603913.67	0.7087	A	1.2
8	☐			2497.53	0.0003	P	16.8

$$y = 6.9641\text{E-}004 * x + 4.1667\text{E-}006$$

$$R = 0.9987$$

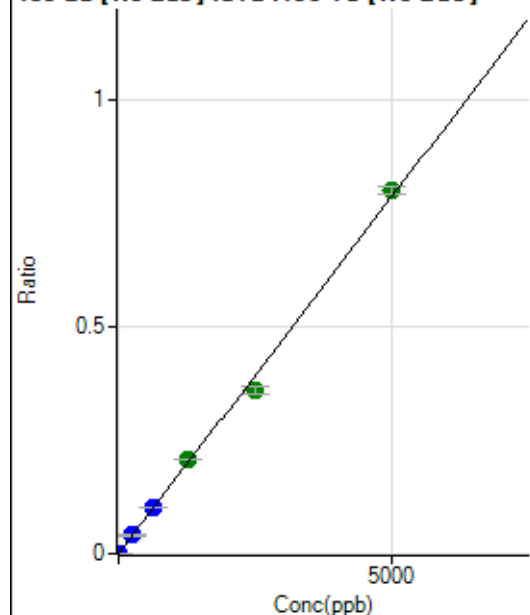
$$DL = 0.006172$$

$$BEC = 0.005983$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	30.56	0.0000	P	46.4
2	☐	10.000	9.561	11816.58	0.0015	P	4.8
3	☐	250.000	261.408	325634.31	0.0411	P	4.8
4	☐	625.000	637.412	792513.48	0.1001	P	0.8
5	☐	1250.000	1317.981	1635903.00	0.2070	A	1.2
6	☐	2500.000	2287.008	2920075.11	0.3592	A	4.3
7	☐	5000.000	5087.380	6318266.55	0.7991	A	2.0
8	☐			3936.81	0.0005	P	4.7

$$y = 1.5707\text{E-}004 * x + 3.8056\text{E-}006$$

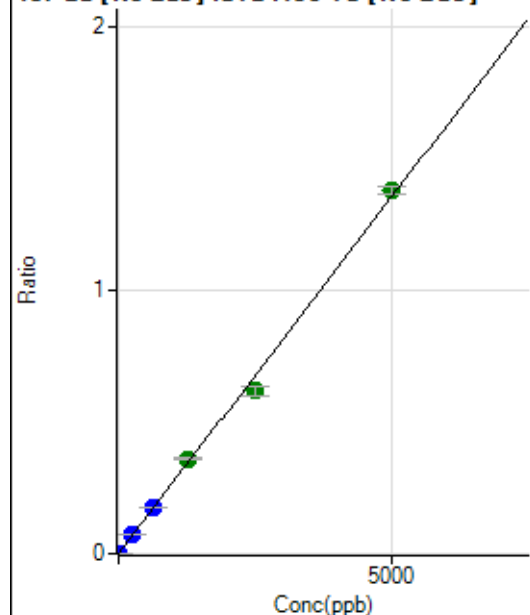
$$R = 0.9986$$

$$DL = 0.03371$$

$$BEC = 0.02423$$

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	50.00	0.0000	P	22.5
2	☐	10.000	9.820	20891.55	0.0027	P	4.0
3	☐	250.000	266.194	570985.35	0.0720	P	4.0
4	☐	625.000	644.095	1378222.24	0.1742	P	1.5
5	☐	1250.000	1326.491	2834208.70	0.3587	A	1.4
6	☐	2500.000	2282.218	5014001.94	0.6171	A	5.7
7	☐	5000.000	5086.572	10874568.21	1.3753	A	2.0
8	☐			6515.63	0.0009	P	2.4

$$y = 2.7038E-004 * x + 6.5303E-006$$

$$R = 0.9985$$

$$DL = 0.01629$$

$$BEC = 0.02415$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.89		P	114.
2	☐			11.11		P	34.6
3	☐			28.89		P	13.3
4	☐			44.45		P	69.3
5	☐			97.78		P	3.9
6	☐			102.23		P	10.0
7	☐			317.79		P	5.3
8	☐			228.89		P	7.3

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.
2	☐			2.22		P	86.6
3	☐			3.33		P	100.
4	☐			7.78		P	65.5
5	☐			10.00		P	33.3
6	☐			15.56		P	12.4
7	☐			23.33		P	14.3
8	☐			80.00		P	11.0

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.78		P	173.
2	☐			13.89		P	34.7
3	☐			22.22		P	21.6
4	☐			66.67		P	45.1
5	☐			86.12		P	5.6
6	☐			163.90		P	5.9
7	☐			372.24		P	9.0
8	☐			1297.32		P	0.4

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.44		P	114.
2	☐			0.00		P	
3	☐			11.11		P	69.3
4	☐			25.56		P	19.9
5	☐			53.33		P	6.3
6	☐			85.55		P	19.6
7	☐			210.01		P	23.5
8	☐			612.24		P	2.8

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			75.01		P	29.4
2	☐			88.89		P	14.3
3	☐			91.67		P	0.0
4	☐			150.01		P	5.6
5	☐			127.78		P	16.4
6	☐			236.12		P	2.0
7	☐			425.02		P	11.9
8	☐			1380.66		P	8.9

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			98.89		P	18.6
2	☐			96.67		P	3.5
3	☐			100.00		P	17.6
4	☐			94.45		P	7.3
5	☐			142.22		P	9.5
6	☐			187.78		P	24.2
7	☐			243.34		P	13.2
8	☐			793.37		P	3.9

164 Er [No Gas] No available calibration points

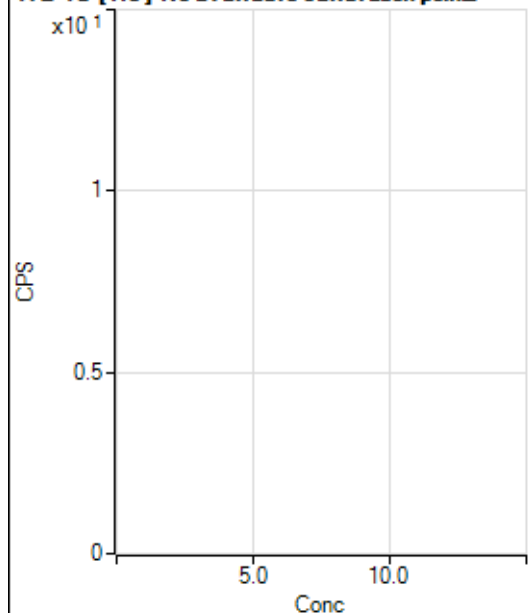
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			69.45		P	18.3
2	☐			55.56		P	22.9
3	☐			52.78		P	18.2
4	☐			75.00		P	38.5
5	☐			72.22		P	65.6
6	☐			105.56		P	35.6
7	☐			147.23		P	14.2
8	☐			216.67		P	6.7

164 Er [He] No available calibration points

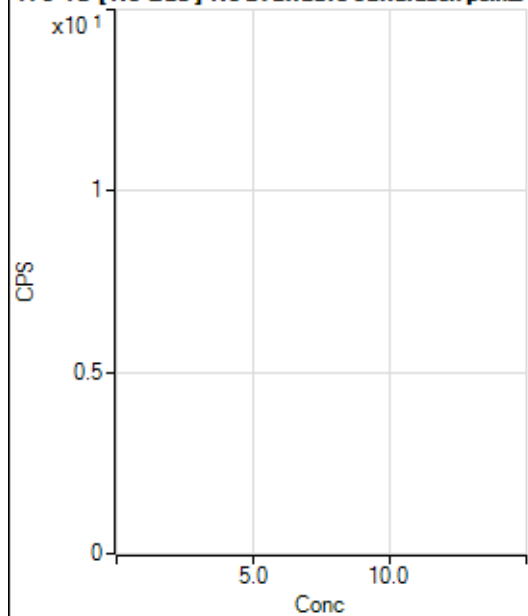
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			22.22		P	60.6
2	☐			22.22		P	17.3
3	☐			32.22		P	21.5
4	☐			24.44		P	7.9
5	☐			31.11		P	6.2
6	☐			37.78		P	31.0
7	☐			45.56		P	18.4
8	☐			100.00		P	20.0

172 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			47.22		P	27.0
2	☐			55.56		P	60.6
3	☐			58.33		P	14.3
4	☐			86.11		P	11.2
5	☐			102.78		P	37.5
6	☐			100.00		P	46.4
7	☐			205.56		P	20.4
8	☐			133.34		P	6.3

172 Yb [He] No available calibration points

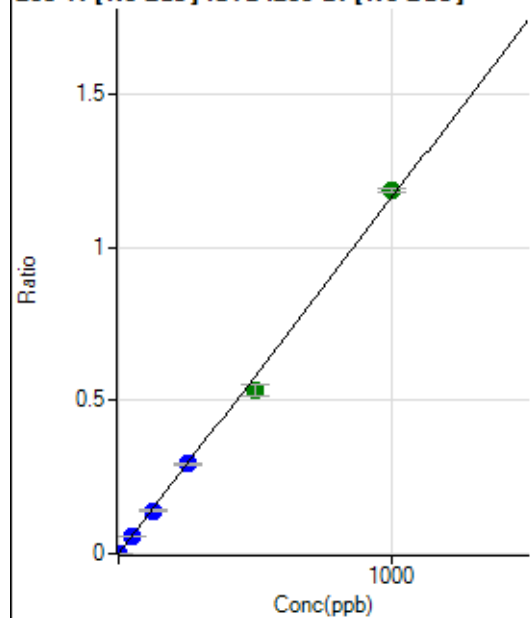
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			27.78		P	52.9
2	☐			14.82		P	94.4
3	☐			24.07		P	87.4
4	☐			37.04		P	56.8
5	☐			44.45		P	25.0
6	☐			50.00		P	11.1
7	☐			85.19		P	26.4
8	☐			72.22		P	46.8

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			897.28		P	13.0
2	☐			1058.40		P	15.8
3	☐			2258.58		P	3.7
4	☐			4189.67		P	4.6
5	☐			7291.10		P	3.2
6	☐			12689.81		P	1.3
7	☐			26947.48		P	0.7
8	☐			1080.63		P	8.9

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8158.23		P	4.5
2	☐			7739.44		P	5.4
3	☐			8449.12		P	3.5
4	☐			9399.79		P	0.9
5	☐			10496.93		P	2.0
6	☐			12177.99		P	1.6
7	☐			18018.05		P	1.7
8	☐			8019.23		P	2.4

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	61.12	0.0000	P	23.5
2	☐	1.000	0.943	5895.95	0.0011	P	2.6
3	☐	50.000	49.495	305446.11	0.0576	P	1.8
4	☐	125.000	121.199	748302.99	0.1410	P	2.1
5	☐	250.000	252.569	1532460.70	0.2938	P	2.6
6	☐	500.000	460.359	2892504.06	0.5354	A	6.6
7	☐	1000.000	1019.679	6235356.65	1.1859	A	1.0
8	☐			2768.56	0.0006	P	89.9

$$y = 0.0012 * x + 1.2045E-005$$

$$R = 0.9989$$

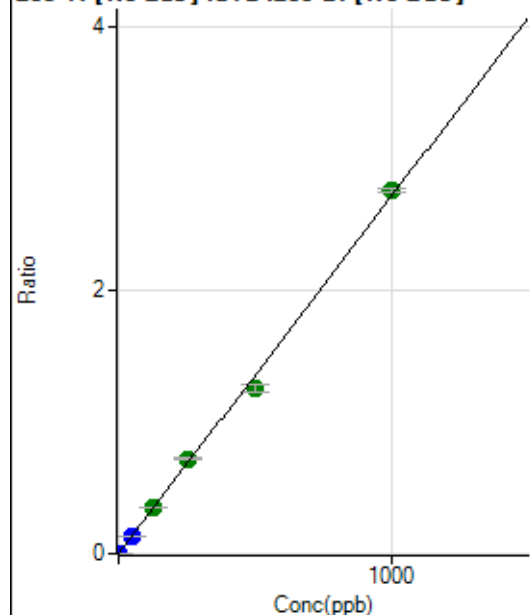
$$DL = 0.007301$$

$$BEC = 0.01036$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	83.33	0.0000	P	38.8
2	☐	1.000	0.925	13443.43	0.0025	P	5.8
3	☐	50.000	50.574	729293.04	0.1375	P	2.0
4	☐	125.000	128.012	1847342.12	0.3479	A	1.3
5	☐	250.000	265.004	3757826.39	0.7203	A	1.7
6	☐	500.000	461.403	6778007.18	1.2541	A	5.2
7	☐	1000.000	1015.143	14506600.84	2.7591	A	1.0
8	☐			5657.68	0.0011	P	74.9

$$y = 0.0027 * x + 1.5985E-005$$

$$R = 0.9988$$

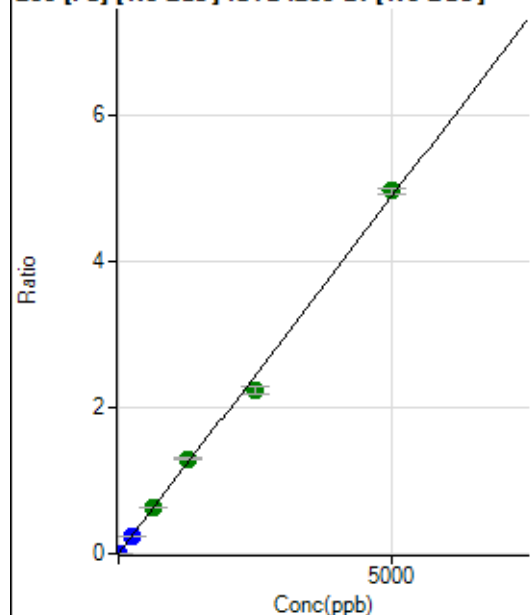
$$DL = 0.006837$$

$$BEC = 0.005881$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	612.99	0.0001	P	26.4
2	☐	1.000	0.902	5330.82	0.0010	P	4.3
3	☐	250.000	245.511	1273095.53	0.2400	P	2.4
4	☐	625.000	644.835	3346109.48	0.6302	A	0.8
5	☐	1250.000	1326.745	6763577.35	1.2965	A	2.4
6	☐	2500.000	2287.781	12082274.00	2.2356	A	5.2
7	☐	5000.000	5084.668	26121125.58	4.9685	A	1.6
8	☐			15089.16	0.0031	P	41.2

$$y = 9.7713E-004 * x + 1.2078E-004$$

$$R = 0.9986$$

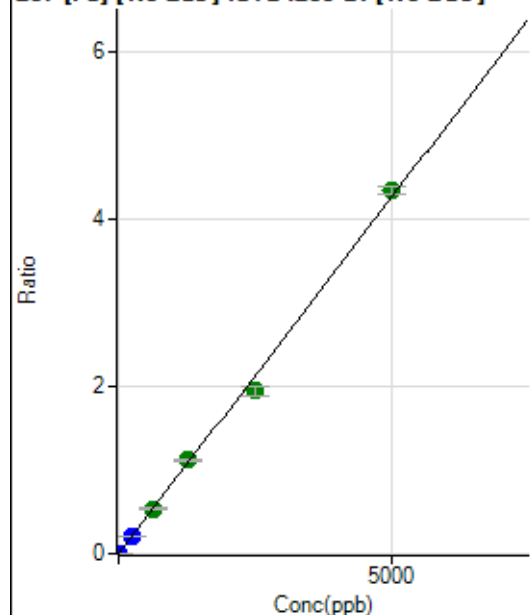
$$DL = 0.09771$$

$$BEC = 0.1236$$

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	561.13	0.0001	P	24.1
2	☐	1.000	0.864	4493.45	0.0008	P	7.5
3	☐	250.000	245.581	1109842.88	0.2092	P	1.4
4	☐	625.000	633.049	2861567.22	0.5390	A	2.0
5	☐	1250.000	1312.062	5827158.12	1.1170	A	3.5
6	☐	2500.000	2283.469	10503820.02	1.9440	A	6.1
7	☐	5000.000	5091.965	22789103.29	4.3348	A	2.1
8	☐			12792.63	0.0026	P	40.2

$$y = 8.5128\text{E-}004 * x + 1.1056\text{E-}004$$

$$R = 0.9986$$

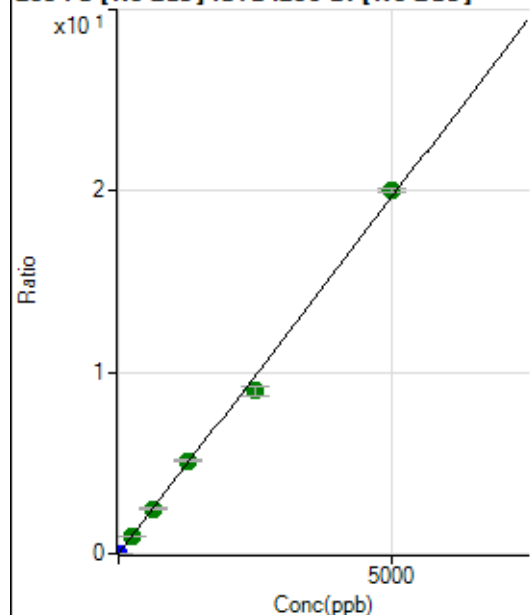
$$DL = 0.09396$$

$$BEC = 0.1299$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	2424.21	0.0005	P	20.6
2	☐	1.000	0.893	21192.42	0.0040	P	4.4
3	☐	250.000	250.807	5228895.18	0.9859	A	2.8
4	☐	625.000	633.242	13211211.98	2.4884	A	1.3
5	☐	1250.000	1306.061	26772210.44	5.1319	A	2.4
6	☐	2500.000	2286.381	48546804.56	8.9835	A	5.5
7	☐	5000.000	5091.724	105180193.5	20.0054	A	1.2
8	☐			58246.94	0.0121	P	37.2

$$y = 0.0039 * x + 4.7627\text{E-}004$$

$$R = 0.9986$$

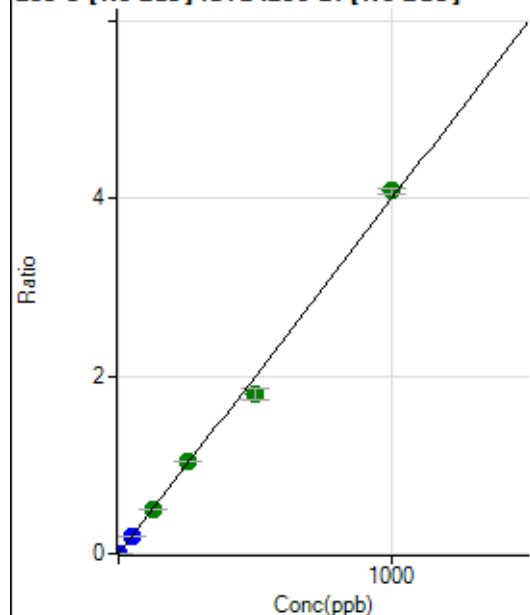
$$DL = 0.07504$$

$$BEC = 0.1212$$

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	16.67	0.0000	P	122.
2	☐	1.000	0.941	20013.45	0.0038	P	5.6
3	☐	50.000	48.967	1038839.04	0.1958	P	2.1
4	☐	125.000	123.855	2630621.15	0.4953	A	1.7
5	☐	250.000	260.809	5441971.39	1.0430	A	1.0
6	☐	500.000	449.687	9715323.74	1.7984	A	6.7
7	☐	1000.000	1022.649	21503018.54	4.0898	A	1.5
8	☐			4523.44	0.0009	P	80.7

$$y = 0.0040 * x + 3.0242E-006$$

$$R = 0.9981$$

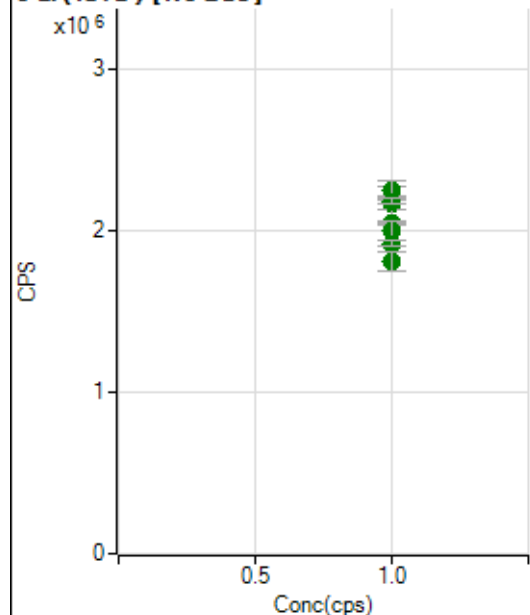
$$DL = 0.002783$$

$$BEC = 0.0007562$$

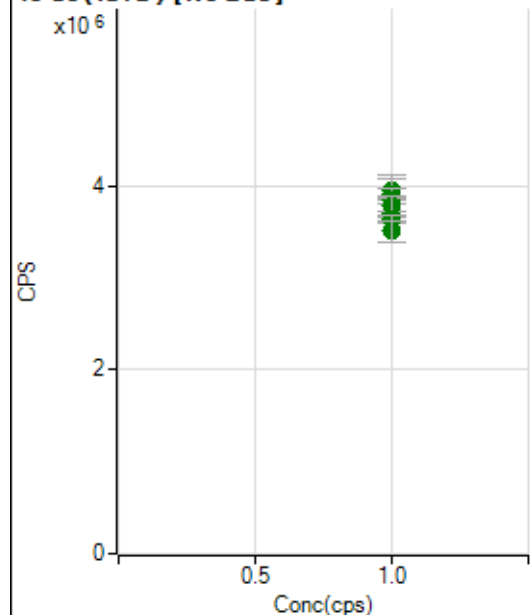
Weight: <None>

Min Conc: 0

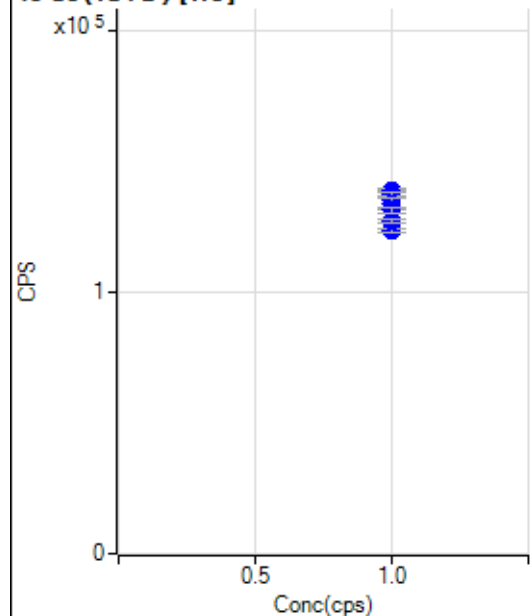
6 Li (ISTD) [No Gas]



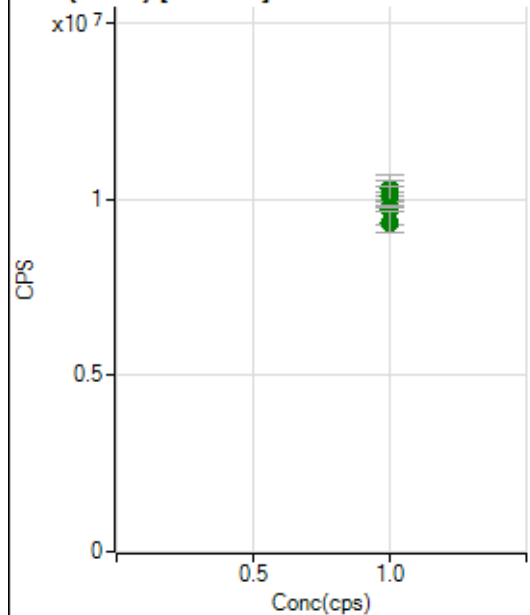
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2167974.55		A	10.3
2	☐	1.000		2245860.23		A	5.4
3	☐	1.000		2172791.29		A	3.6
4	☐	1.000		2181256.30		A	1.8
5	☐	1.000		2043242.54		A	0.7
6	☐	1.000		2000295.02		A	6.0
7	☐	1.000		1920760.77		A	1.8
8	☐	1.000		1810204.40		A	6.8

45 Sc (ISTD) [No Gas]

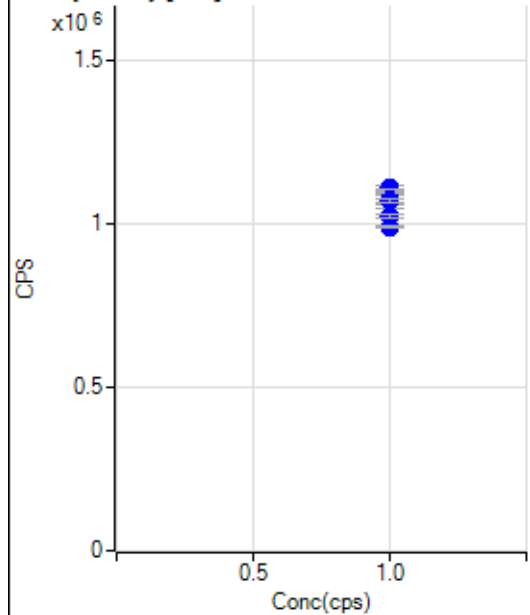
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3855568.97		A	13.4
2	☐	1.000		3942425.15		A	6.7
3	☐	1.000		3908002.69		A	3.1
4	☐	1.000		3836687.65		A	1.5
5	☐	1.000		3691956.99		A	1.5
6	☐	1.000		3780731.23		A	5.9
7	☐	1.000		3643953.63		A	1.8
8	☐	1.000		3503447.48		A	6.6

45 Sc (ISTD) [He]

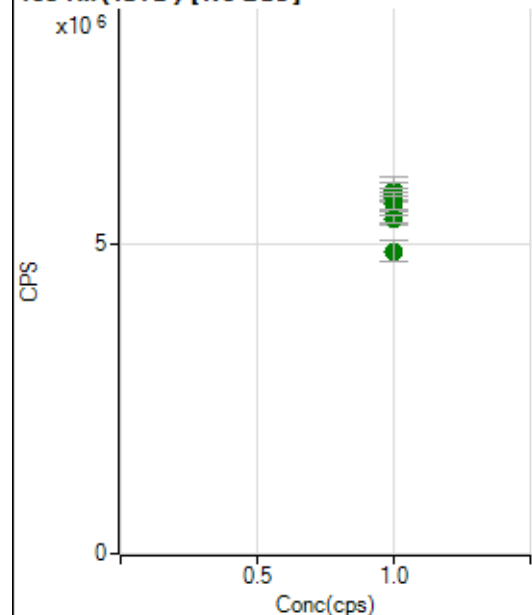
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		136183.97		P	0.5
2	☐	1.000		135377.37		P	5.1
3	☐	1.000		138535.40		P	1.0
4	☐	1.000		137417.65		P	1.2
5	☐	1.000		133508.48		P	3.0
6	☐	1.000		123596.11		P	1.4
7	☐	1.000		127105.63		P	1.2
8	☐	1.000		131086.90		P	1.3

89 Y (ISTD) [No Gas]

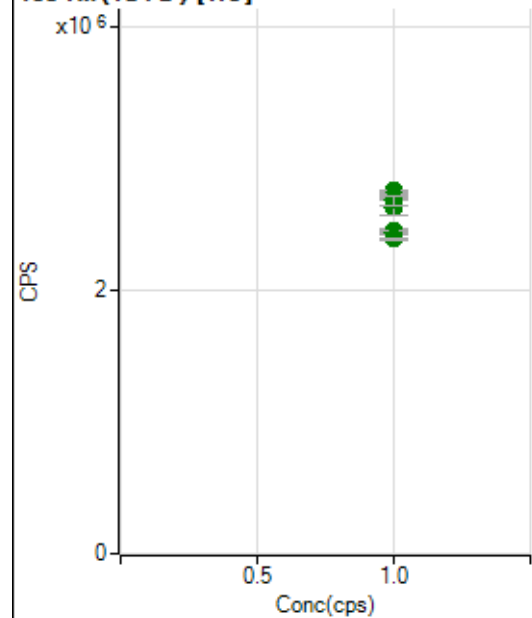
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9977807.07		A	13.9
2	☐	1.000		10225603.53		A	6.1
3	☐	1.000		10297049.15		A	4.4
4	☐	1.000		10109629.99		A	2.1
5	☐	1.000		9702127.77		A	0.9
6	☐	1.000		10079855.41		A	5.3
7	☐	1.000		9795327.49		A	0.5
8	☐	1.000		9335320.83		A	6.4

89 Y (ISTD) [He]

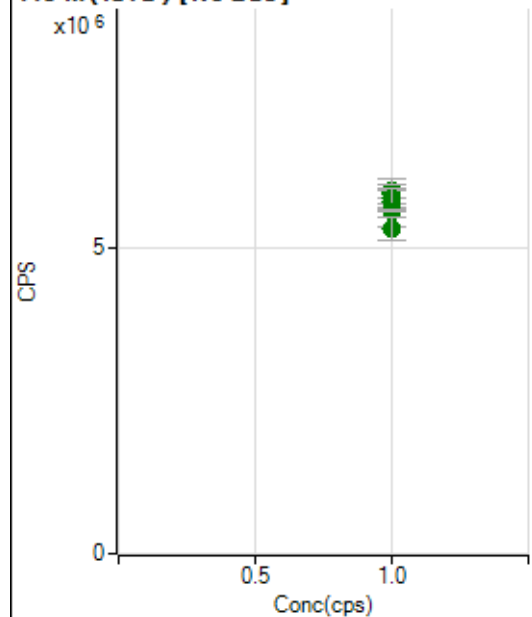
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1093890.29		P	0.5
2	☐	1.000		1072877.33		P	4.2
3	☐	1.000		1110406.30		P	0.9
4	☐	1.000		1104426.55		P	0.6
5	☐	1.000		1076924.37		P	3.5
6	☐	1.000		991231.25		P	0.7
7	☐	1.000		1026155.50		P	1.2
8	☐	1.000		1070957.92		P	1.2

103 Rh (ISTD) [No Gas]

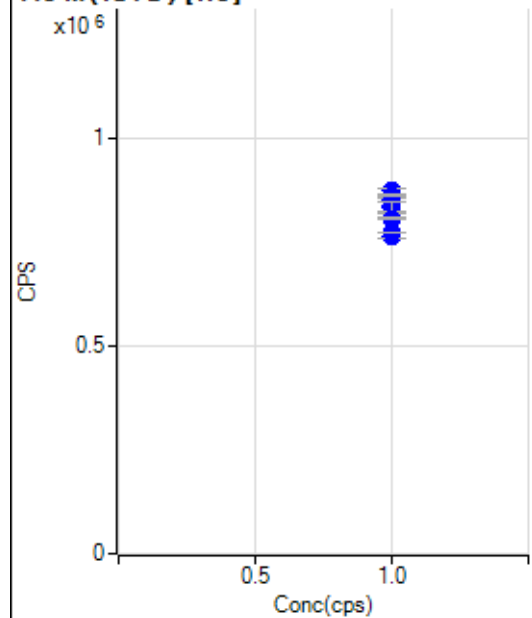
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5699113.24		A	13.3
2	☐	1.000		5864816.36		A	4.9
3	☐	1.000		5814587.41		A	3.2
4	☐	1.000		5762042.14		A	2.6
5	☐	1.000		5533609.80		A	0.1
6	☐	1.000		5666410.80		A	3.8
7	☐	1.000		5404494.26		A	2.1
8	☐	1.000		4889447.63		A	7.2

103 Rh (ISTD) [He]

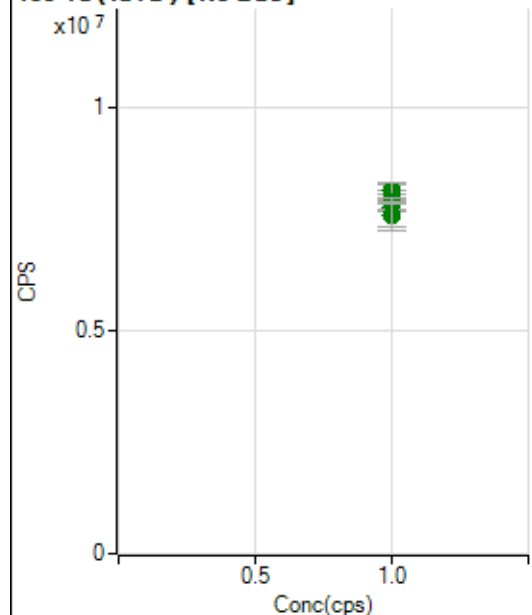
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2700128.55		A	1.1
2	☐	1.000		2627433.57		A	4.3
3	☐	1.000		2751085.05		A	0.7
4	☐	1.000		2714819.23		A	1.2
5	☐	1.000		2680682.91		A	2.8
6	☐	1.000		2449410.40		A	1.6
7	☐	1.000		2436804.69		A	1.3
8	☐	1.000		2388981.21		A	0.6

115 In (ISTD) [No Gas]

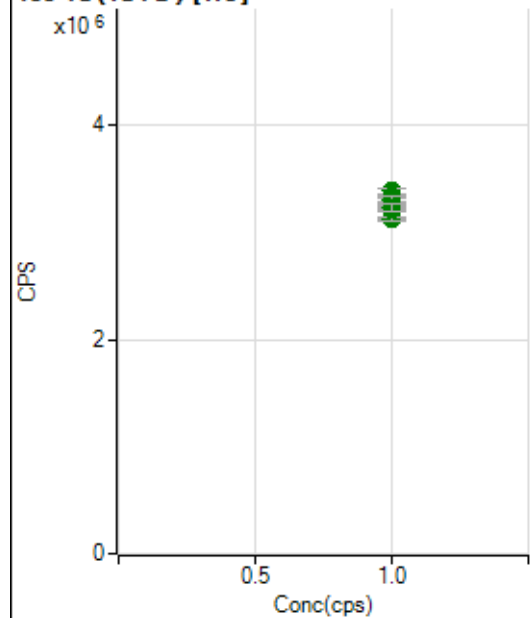
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5752603.78		A	13.4
2	☐	1.000		5946052.21		A	6.7
3	☐	1.000		5928256.77		A	3.6
4	☐	1.000		5899267.09		A	1.8
5	☐	1.000		5658185.12		A	0.0
6	☐	1.000		5834567.38		A	5.1
7	☐	1.000		5616485.62		A	0.8
8	☐	1.000		5321511.17		A	6.8

115 In (ISTD) [He]

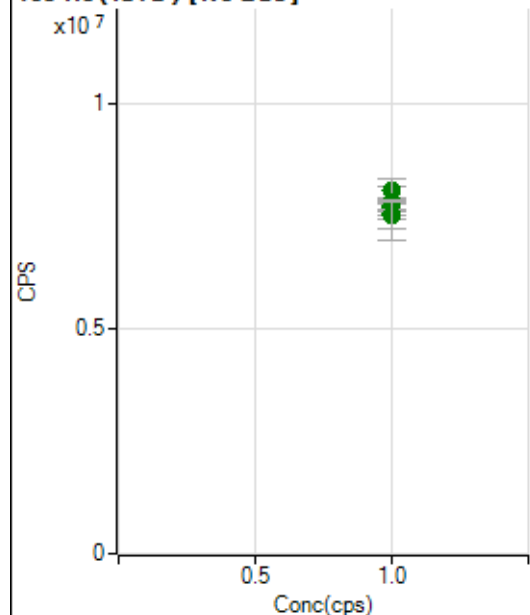
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		853165.93		P	1.6
2	☐	1.000		839005.27		P	4.6
3	☐	1.000		874409.99		P	1.6
4	☐	1.000		863222.07		P	0.4
5	☐	1.000		835270.39		P	2.6
6	☐	1.000		766250.93		P	1.8
7	☐	1.000		773615.95		P	0.4
8	☐	1.000		807721.42		P	0.7

159 Tb (ISTD) [No Gas]

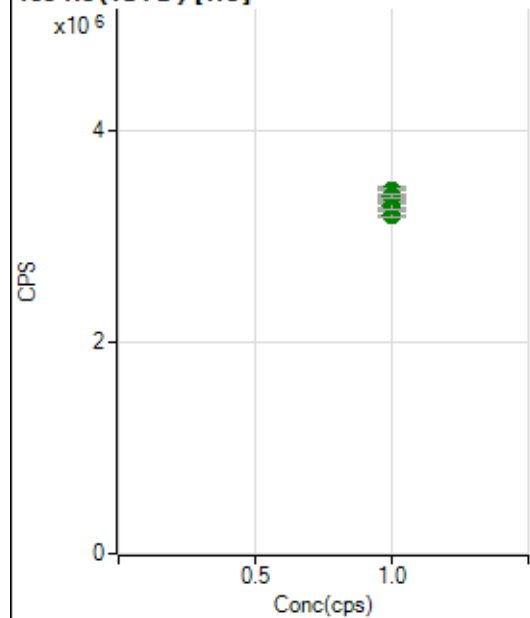
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7776344.12		A	13.3
2	☐	1.000		7859106.69		A	4.8
3	☐	1.000		7944558.98		A	5.7
4	☐	1.000		7914585.99		A	2.1
5	☐	1.000		7903047.73		A	1.4
6	☐	1.000		8138872.45		A	4.4
7	☐	1.000		7908693.01		A	1.8
8	☐	1.000		7607470.44		A	7.2

159 Tb (ISTD) [He]

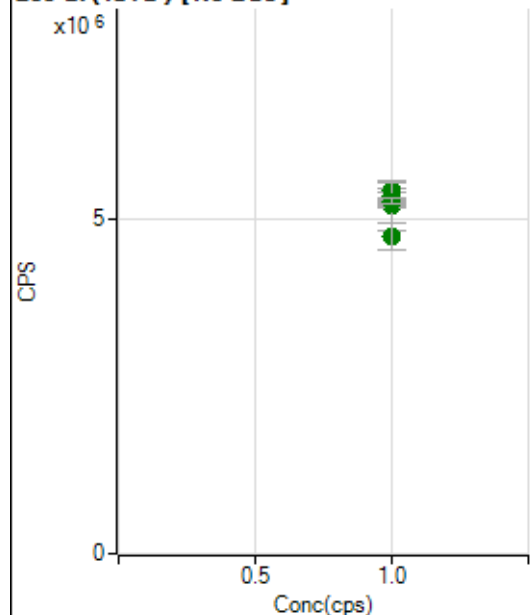
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3264132.59		A	0.9
2	☐	1.000		3207367.42		A	4.6
3	☐	1.000		3391270.33		A	1.9
4	☐	1.000		3338039.26		A	0.6
5	☐	1.000		3313148.29		A	2.1
6	☐	1.000		3128211.27		A	0.9
7	☐	1.000		3219971.07		A	0.5
8	☐	1.000		3229509.02		A	2.1

165 Ho (ISTD) [No Gas]

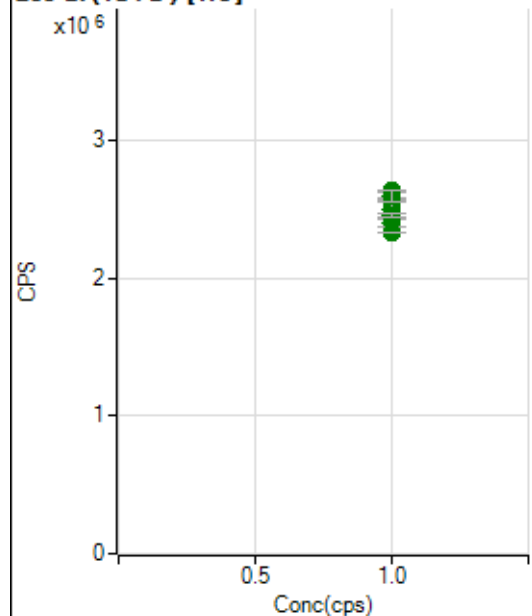
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7540977.47		A	16.0
2	☐	1.000		7664517.36		A	5.8
3	☐	1.000		7733027.86		A	3.4
4	☐	1.000		7679554.25		A	2.0
5	☐	1.000		7575736.37		A	1.7
6	☐	1.000		8054562.94		A	6.4
7	☐	1.000		7830050.87		A	0.6
8	☐	1.000		7525729.59		A	8.5

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3288278.84		A	0.7
2	☐	1.000		3287244.43		A	5.1
3	☐	1.000		3425079.57		A	2.3
4	☐	1.000		3427376.20		A	1.5
5	☐	1.000		3383475.40		A	2.9
6	☐	1.000		3200760.40		A	1.7
7	☐	1.000		3293309.26		A	2.0
8	☐	1.000		3377429.01		A	1.3

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5189954.12		A	14.4
2	☐	1.000		5324245.09		A	4.9
3	☐	1.000		5307293.29		A	3.6
4	☐	1.000		5310322.67		A	2.9
5	☐	1.000		5217981.07		A	1.6
6	☐	1.000		5413824.50		A	4.9
7	☐	1.000		5258177.74		A	1.5
8	☐	1.000		4725815.17		A	8.5

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2570838.00		A	0.9
2	☐	1.000		2502121.91		A	4.7
3	☐	1.000		2638664.86		A	0.7
4	☐	1.000		2600650.57		A	1.7
5	☐	1.000		2598527.51		A	3.1
6	☐	1.000		2399519.96		A	2.3
7	☐	1.000		2458882.92		A	0.8
8	☐	1.000		2336125.95		A	0.4

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP8081023MS.b
Acq. Date-Time 2023-08-10 08:17:52
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		9199	91994.70			1.716	5.000
24		425501	4255011.51			1.918	5.000
25		57155	571547.09			1.790	5.000
26		66566	665663.89			2.609	5.000
59		72707	727068.15			1.298	5.000
113		8103	81031.62			1.747	5.000
115		105250	1052497.44			2.635	5.000
206		26274	262737.81			1.352	5.000
207		23262	232624.58			1.542	5.000
208		56429	564285.16			1.753	5.000
220		0	2.30			50.047	

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

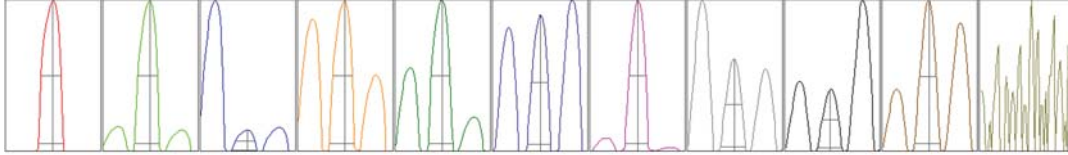
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	9406	9197	9270	9147	8977
24	433999	424100	431918	424217	413272
25	58563	57424	57271	56760	55754
26	69109	66385	67243	65544	64551
59	74028	73090	72650	72276	71490
113	8317	8095	8071	8112	7921
115	108448	106341	104840	105724	100896
206	26854	26296	26209	26102	25908
207	23859	23220	23203	23139	22890
208	57979	56044	56092	56686	55341

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	15688.25	9.00	8.90 - 9.10	
24	729778.39	24.00	23.90 - 24.10	
25	99952.11	25.00	24.90 - 25.10	
26	114062.48	26.00	25.90 - 26.10	
59	131447.43	59.00	58.90 - 59.10	
113	16076.73	113.05	112.90 - 113.10	
115	207264.73	115.05	114.90 - 115.10	
206	51334.51	206.00	205.90 - 206.10	
207	45253.21	206.95	206.90 - 207.10	
208	109957.77	208.00	207.90 - 208.10	
220	0.00	220.25	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.62	0.786	0.900	
24	0.62	0.786	0.900	
25	0.60	0.786	0.900	
26	0.62	0.787	0.900	
59	0.58	0.777	0.900	
113	0.52	0.733	0.900	
115	0.52	0.732	0.900	
206	0.52	0.785	0.900	
207	0.52	0.756	0.900	
208	0.52	0.809	0.900	
220	0.35	0.350		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.84 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	1.40 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	10.0 V	Deflect	14.2 V
Extract 2	-235.0 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	140 V		

QP Parameters

Mass Gain	125	Axis Gain	0.9994	QP Bias	-4.0 V
Mass Offset	124	Axis Offset	0.01		

Hardware Settings

Torch

Torch H	1.2 mm	Torch V	-0.8 mm
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EM

Discriminator	4.6 mV	Analog HV	2304 V	Pulse HV	1648 V
---------------	--------	-----------	--------	----------	--------

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		17139	171394.75			1.105	
89		59171	591711.30			1.031	
205		22182	221824.20			1.381	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	17381	17118	16872	17087	17239
89	59428	59207	58295	58972	59954
205	22268	22055	21734	22304	22551

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.84 L/min	Dilution Gas	0.40 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	10.0 V	Deflect	3.6 V
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US EPA Tune Check Report

Extract 2	-235.0 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	125	Axis Gain	0.9994	QP Bias	-13.0 V
Mass Offset	124	Axis Offset	0.01		

Hardware Settings

Torch

Torch H	1.2 mm	Torch V	-0.8 mm
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EM

Discriminator	4.6 mV	Analog HV	2304 V	Pulse HV	1648 V
---------------	--------	-----------	--------	----------	--------