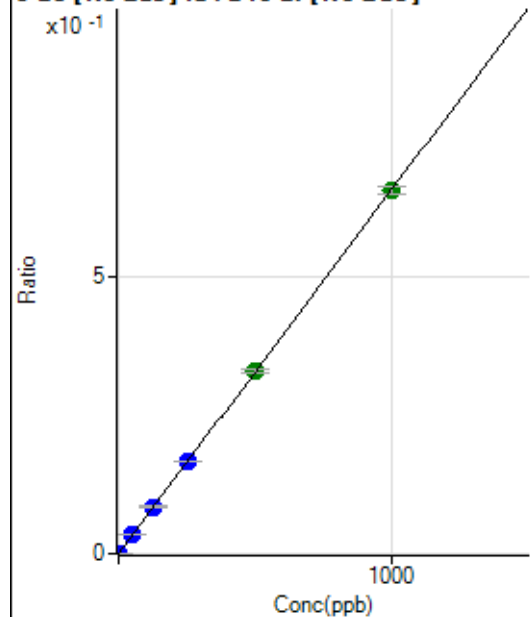


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8011023MS.b\
Analysis File: P8011023MS.batch.bin
DA Date-Time: 2023-01-10 19:22:00
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2023-01-10 11:54:59
2	005CALS.d	S02	2023-01-10 11:58:08
3	006CALS.d	S03	2023-01-10 12:01:20
4	007CALS.d	S04	2023-01-10 12:04:26
5	008CALS.d	S05	2023-01-10 12:07:34
6	009CALS.d	S06	2023-01-10 12:10:40
7	010CALS.d	S07	2023-01-10 12:13:48
8	011CALS.d	S08	2023-01-10 12:16:55

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	36.25	0.0000	P	26.2
2	☐	1.000	1.063	3494.99	0.0007	P	3.9
3	☐	50.000	52.578	172697.41	0.0345	P	2.0
4	☐	125.000	127.983	424111.79	0.0839	P	3.9
5	☐	250.000	255.393	829996.95	0.1674	P	0.3
6	☐	500.000	501.806	1621698.11	0.3289	A	1.9
7	☐	1000.000	997.247	3198150.60	0.6537	A	2.0
8	☐			1802.43	0.0004	P	34.4

$$y = 6.5548\text{E-}004 * x + 7.4628\text{E-}006$$

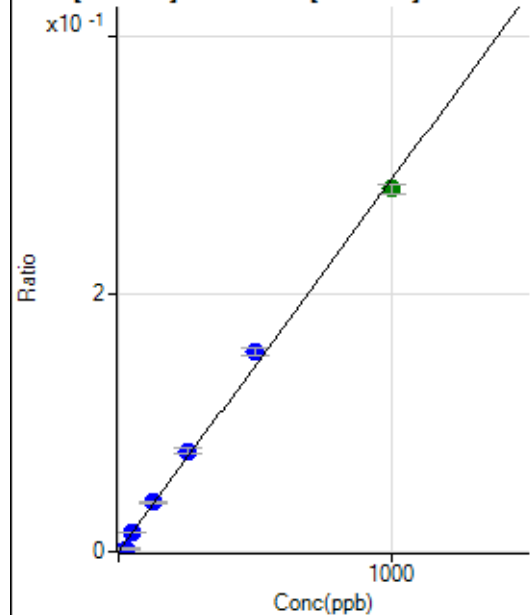
$$R = 1.0000$$

$$DL = 0.008959$$

$$BEC = 0.01139$$

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	449.92	0.0001	P	3.5
2	☐	25.000	7.242	10827.21	0.0022	P	6.3
3	☐	50.000	52.709	76639.10	0.0153	P	1.6
4	☐	125.000	132.237	193343.14	0.0382	P	3.4
5	☐	250.000	270.822	387662.82	0.0782	P	5.1
6	☐	500.000	537.179	764304.29	0.1550	P	3.8
7	☐	1000.000	975.609	1377256.86	0.2815	A	2.4
8	☐			108589.27	0.0237	P	9.9

$$y = 2.8840\text{E-}004 * x + 9.2911\text{E-}005$$

$$R = 0.9983$$

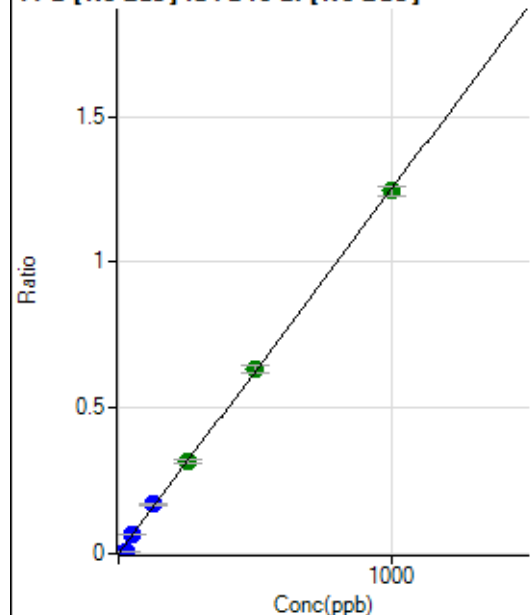
$$DL = 0.03413$$

$$BEC = 0.3222$$

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	1979.75	0.0004	P	6.5
2	☐	25.000	7.277	47200.75	0.0095	P	5.7
3	☐	50.000	53.341	336265.02	0.0671	P	3.5
4	☐	125.000	135.673	859940.35	0.1701	P	4.5
5	☐	250.000	254.348	1578813.23	0.3185	A	3.6
6	☐	500.000	505.702	3119288.66	0.6328	A	4.0
7	☐	1000.000	995.004	6089486.94	1.2446	A	2.4
8	☐			481519.10	0.1050	P	10.6

$$y = 0.0013 * x + 4.0948E-004$$

$$R = 0.9997$$

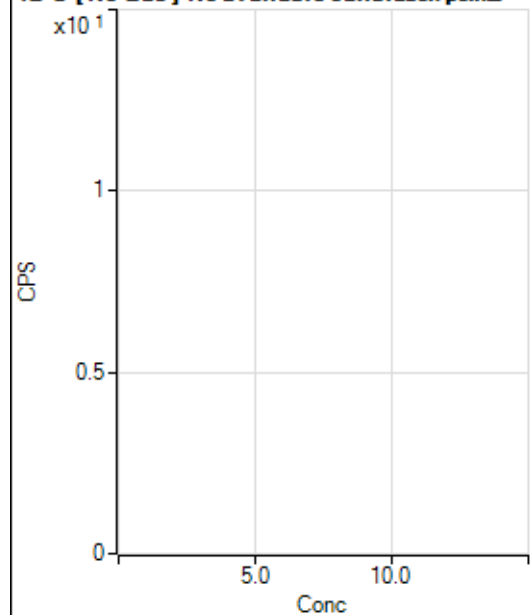
$$DL = 0.06431$$

$$BEC = 0.3275$$

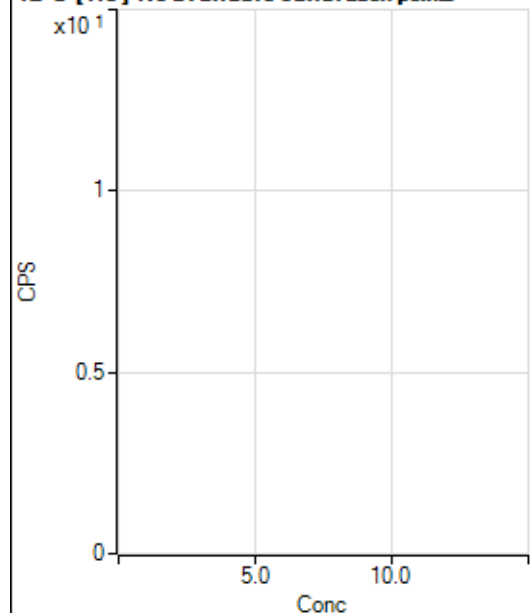
Weight: <None>

Min Conc: 0

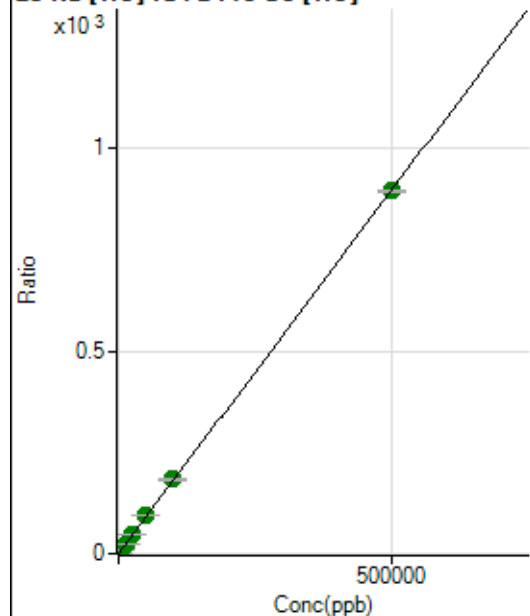
12 C [No Gas] No available calibration points



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			7118583.67		A	0.7
2	☐			7166478.46		A	1.0
3	☐			7421574.82		A	1.5
4	☐			8023479.00		A	0.3
5	☐			7729294.44		A	0.8
6	☐			8596847.85		A	1.3
7	☐			8584418.85		A	1.8
8	☐			8962239.79		A	1.8

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			80478.49		P	2.1
2	☐			81855.56		P	2.7
3	☐			84241.43		P	0.7
4	☐			91830.49		P	1.2
5	☐			90975.54		P	0.5
6	☐			100235.45		P	1.0
7	☐			102514.84		P	1.5
8	☐			111333.96		P	1.8

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	22537.27	0.1131	P	1.0
2	☐	500.000	473.167	189783.50	0.9620	P	1.4
3	☐	5000.000	5167.899	1844736.69	9.3850	A	1.8
4	☐	12500.000	12812.253	4446295.98	23.1000	A	2.3
5	☐	25000.000	25722.380	8732769.99	46.2626	A	2.6
6	☐	50000.000	52503.703	17621978.00	94.3120	A	2.8
7	☐	100000.00	102175.02	35222047.66	183.4292	A	2.6
8	☐	500000.00	499269.04	172005645.5	895.8708	A	0.5

$$y = 0.0018 * x + 0.1131$$

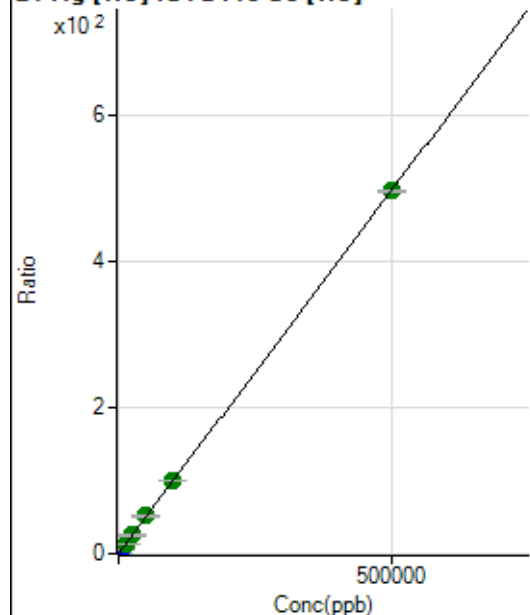
$$R = 1.0000$$

$$DL = 1.872$$

$$BEC = 63.02$$

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	269.46	0.0014	P	18.0
2	☐	500.000	472.752	92789.44	0.4703	P	1.3
3	☐	5000.000	5058.079	986532.70	5.0192	P	2.1
4	☐	12500.000	13040.804	2490242.03	12.9384	A	0.9
5	☐	25000.000	25526.115	4780081.23	25.3243	A	3.2
6	☐	50000.000	51700.563	9583135.46	51.2905	A	2.6
7	☐	100000.00	100592.40	19163622.82	99.7932	A	1.9
8	☐	500000.00	499671.08	95165947.96	495.6958	A	0.7

$$y = 9.9204\text{E-}004 * x + 0.0014$$

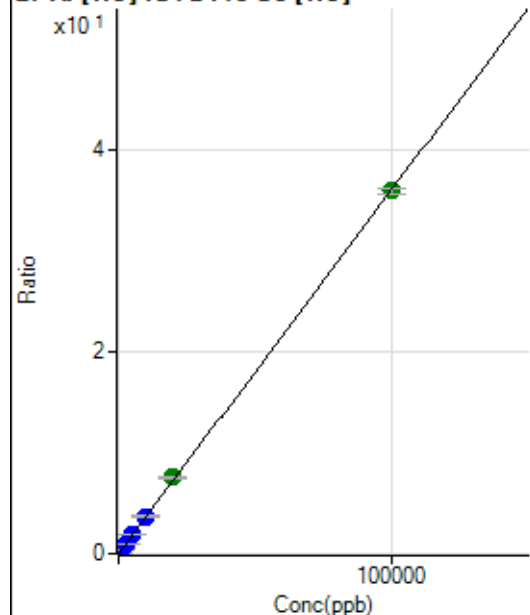
$$R = 1.0000$$

$$DL = 0.7373$$

$$BEC = 1.363$$

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	66.24	0.0003	P	13.5
2	☐	20.000	19.282	1436.15	0.0073	P	0.3
3	☐	1000.000	1017.288	72116.84	0.3669	P	2.0
4	☐	2500.000	2547.790	176775.05	0.9184	P	1.3
5	☐	5000.000	5064.145	344579.42	1.8251	P	1.3
6	☐	10000.000	10250.542	690150.61	3.6940	P	3.3
7	☐	20000.000	21083.397	1458945.49	7.5975	A	2.0
8	☐	100000.00	99753.692	6900741.48	35.9456	A	1.2

$$y = 3.6034\text{E-}004 * x + 3.3230\text{E-}004$$

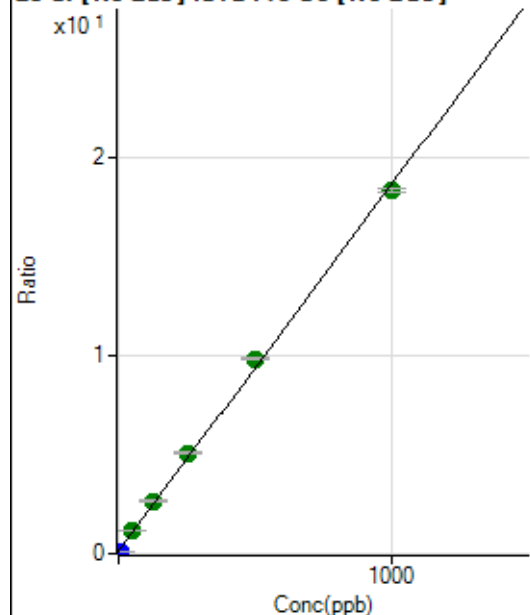
$$R = 0.9999$$

$$DL = 0.3738$$

$$BEC = 0.9222$$

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	788676.01	0.1336	P	2.4
2	☐	10.000	0.599	858136.13	0.1447	P	0.9
3	☐	50.000	55.936	6899551.81	1.1682	A	3.3
4	☐	125.000	136.154	15757542.54	2.6519	A	4.3
5	☐	250.000	267.482	29950939.56	5.0809	A	0.8
6	☐	500.000	522.982	58056310.33	9.8065	A	0.9
7	☐	1000.000	982.542	108320492.7	18.3064	A	1.0
8	☐			2158615.15	0.3780	A	1.3

$$y = 0.0185 * x + 0.1336$$

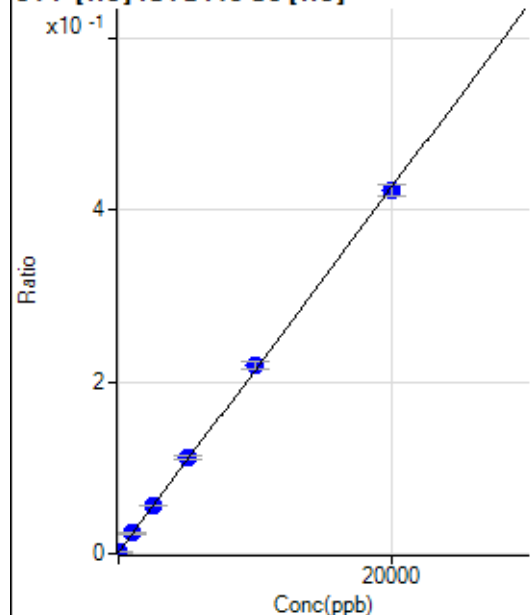
$$R = 0.9993$$

$$DL = 0.52$$

$$BEC = 7.222$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	-16.447	238.90	0.0012	P	34.4
2	☐	0.000	16.447	375.01	0.0019	P	10.3
3	☐	1000.000	1038.600	4639.74	0.0236	P	4.3
4	☐	2500.000	2560.410	10765.36	0.0559	P	1.8
5	☐	5000.000	5181.108	21068.57	0.1116	P	3.6
6	☐	10000.000	10263.259	41011.34	0.2195	P	3.7
7	☐	20000.000	19813.612	81096.69	0.4223	P	3.0
8	☐			363.90	0.0019	P	5.0

$$y = 2.1237E-005 * x + 0.0016$$

$$R = 0.9998$$

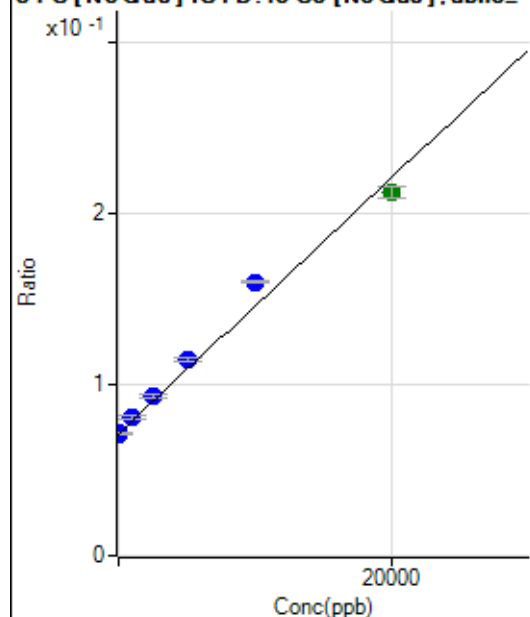
$$DL = 43.03$$

$$BEC = 73$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	11.274	422048.00	0.0715	P	2.5
2	☐	0.000	-11.274	423060.68	0.0713	P	1.0
3	☐	1000.000	1343.030	481164.83	0.0815	P	2.8
4	☐	2500.000	2946.094	555511.54	0.0935	P	3.2
5	☐	5000.000	5804.187	677103.43	0.1149	P	1.3
6	☐	10000.000	11846.083	948092.13	0.1601	P	0.7
7	☐	20000.000	18802.998	1255755.81	0.2123	A	3.1
8	☐			368208.74	0.0645	P	3.1

$$y = 7.4917E-006 * x + 0.0714$$

R = 0.9923

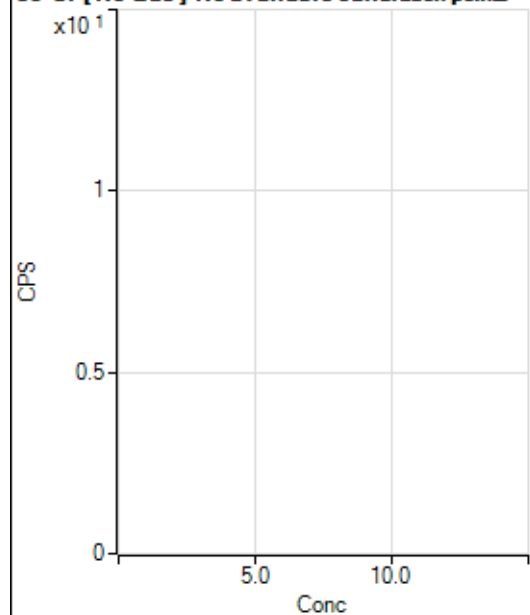
DL = 507.9

BEC = 9530

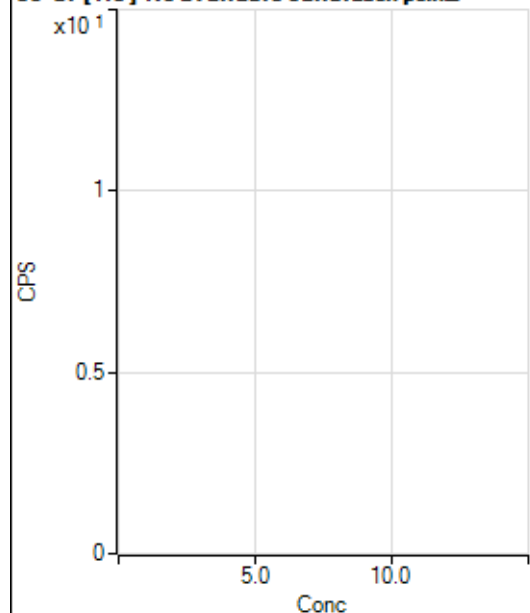
Weight: <None>

Min Conc: 0

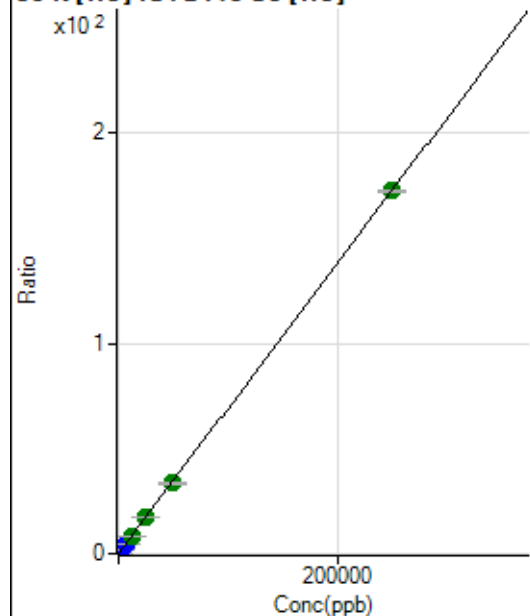
35 Cl [No Gas] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐			265244.84		P	0.7
2	☐			262207.69		P	0.5
3	☐			274850.39		P	0.2
4	☐			272546.33		P	0.5
5	☐			272199.74		P	0.4
6	☐			280541.13		P	0.3
7	☐			289142.26		P	1.5
8	☐			282997.52		P	0.4

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1936.29		P	9.3
2	☐			1916.84		P	8.3
3	☐			1966.85		P	7.1
4	☐			1972.41		P	5.6
5	☐			1741.81		P	7.0
6	☐			1791.83		P	9.5
7	☐			2000.19		P	7.5
8	☐			2011.30		P	6.0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	20823.84	0.1045	P	1.3
2	☐	500.000	455.349	82458.13	0.4180	P	1.0
3	☐	2500.000	2406.465	346253.01	1.7616	P	2.1
4	☐	6250.000	6013.994	817283.21	4.2458	P	2.2
5	☐	12500.000	12344.058	1624895.40	8.6048	A	0.9
6	☐	25000.000	24740.445	3203146.84	17.1411	A	1.9
7	☐	50000.000	48863.066	6481025.80	33.7523	A	2.8
8	☐	250000.00	250268.06	33107333.73	172.4426	A	0.4

$$y = 6.8861E-004 * x + 0.1045$$

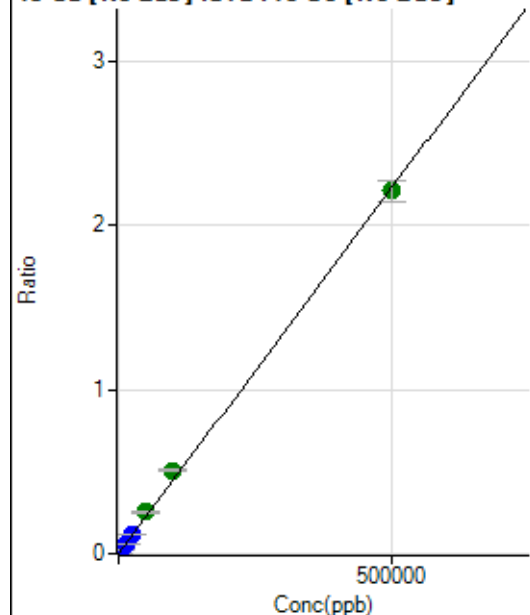
$$R = 1.0000$$

$$DL = 6.028$$

$$BEC = 151.7$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	197.48	0.0000	P	7.9
2	☐	500.000	473.837	12714.86	0.0021	P	2.2
3	☐	5000.000	5654.254	148901.57	0.0252	P	3.0
4	☐	12500.000	13862.573	367004.16	0.0618	P	3.7
5	☐	25000.000	27370.085	718440.05	0.1219	P	1.6
6	☐	50000.000	57077.698	1504598.48	0.2542	A	2.6
7	☐	100000.00	114394.60	3013507.41	0.5094	A	3.4
8	☐	500000.00	496254.22	12604383.33	2.2096	A	5.5

$$y = 4.4525\text{E-}006 * x + 3.3469\text{E-}005$$

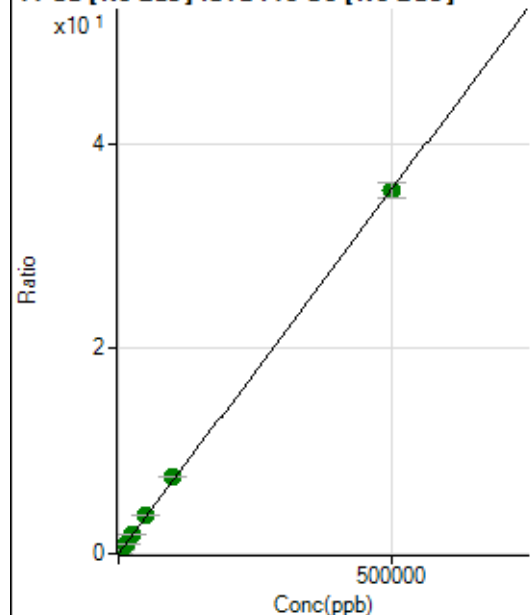
$$R = 0.9995$$

$$DL = 1.788$$

$$BEC = 7.517$$

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	10733.12	0.0018	P	2.4
2	☐	500.000	475.333	211166.48	0.0356	P	0.8
3	☐	5000.000	5580.132	2352596.27	0.3983	A	3.6
4	☐	12500.000	13302.519	5627792.68	0.9471	A	4.0
5	☐	25000.000	26369.884	11055727.64	1.8756	A	0.6
6	☐	50000.000	52711.772	22185192.09	3.7474	A	1.8
7	☐	100000.00	105992.86	44581678.61	7.5335	A	1.2
8	☐	500000.00	498435.91	202119295.4	35.4199	A	4.2

$$y = 7.1058\text{E-}005 * x + 0.0018$$

$$R = 0.9999$$

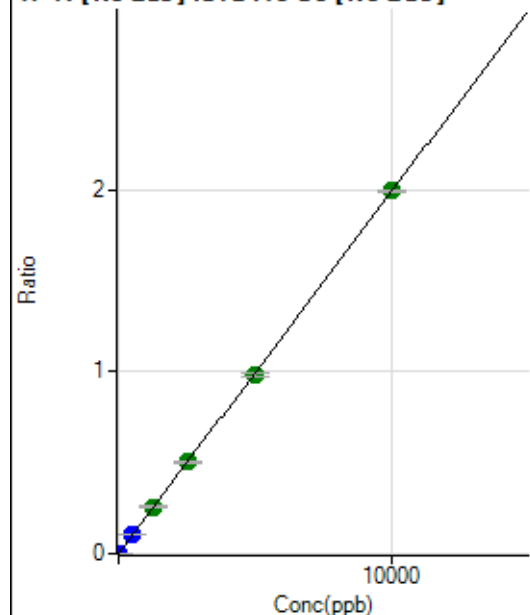
$$DL = 1.845$$

$$BEC = 25.58$$

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	341.68	0.0001	P	14.7
2	☐	5.000	5.145	6412.71	0.0011	P	4.8
3	☐	500.000	526.087	618185.65	0.1047	P	3.2
4	☐	1250.000	1278.109	1510317.35	0.2542	A	4.7
5	☐	2500.000	2537.393	2973828.58	0.5046	A	1.8
6	☐	5000.000	4935.121	5810012.16	0.9813	A	1.3
7	☐	10000.000	10018.273	11787998.53	1.9921	A	0.6
8	☐			8157.55	0.0014	P	49.3

$$y = 1.9884\text{E-}004 * x + 5.7711\text{E-}005$$

$$R = 1.0000$$

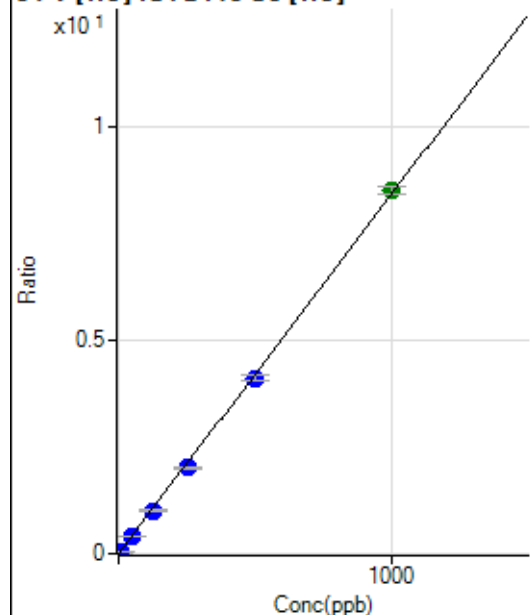
$$DL = 0.1276$$

$$BEC = 0.2902$$

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	5.56	0.0000	P	35.2
2	☐	5.000	4.607	7654.35	0.0388	P	2.8
3	☐	50.000	48.048	79506.29	0.4045	P	2.0
4	☐	125.000	120.013	194451.67	1.0103	P	0.9
5	☐	250.000	238.877	379679.96	2.0108	P	1.4
6	☐	500.000	487.913	767347.00	4.1071	P	3.1
7	☐	1000.000	1009.547	1631912.20	8.4981	A	2.2
8	☐			932.26	0.0049	P	6.6

$$y = 0.0084 * x + 2.7922\text{E-}005$$

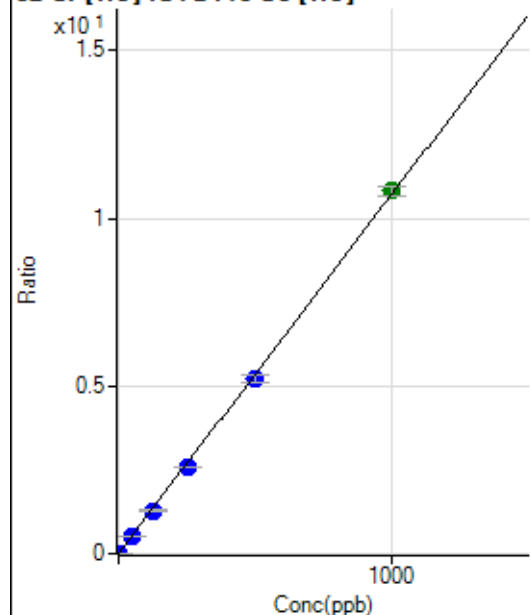
$$R = 0.9998$$

$$DL = 0.003502$$

$$BEC = 0.003317$$

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	664.47	0.0033	P	0.3
2	☐	2.000	1.829	4517.43	0.0229	P	3.6
3	☐	50.000	48.114	101855.69	0.5182	P	1.4
4	☐	125.000	119.321	246426.81	1.2802	P	2.0
5	☐	250.000	239.813	485193.37	2.5696	P	0.9
6	☐	500.000	485.582	971395.16	5.1996	P	4.0
7	☐	1000.000	1010.560	2077220.18	10.8175	A	2.7
8	☐			15700.98	0.0818	P	0.9

$$y = 0.0107 * x + 0.0033$$

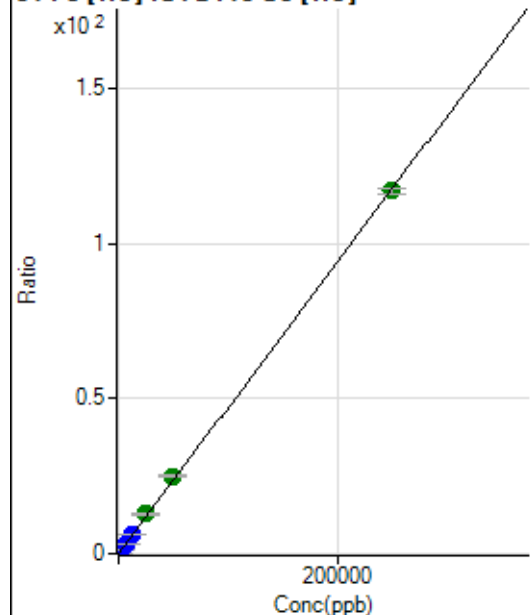
$$R = 0.9998$$

$$DL = 0.003106$$

$$BEC = 0.3115$$

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	701.88	0.0035	P	7.1
2	☐	50.000	48.480	5184.38	0.0263	P	1.1
3	☐	2500.000	2564.356	237317.71	1.2074	P	1.6
4	☐	6250.000	6362.637	575551.21	2.9904	P	0.2
5	☐	12500.000	12701.160	1126335.07	5.9660	P	1.4
6	☐	25000.000	27298.980	2395070.42	12.8190	A	2.9
7	☐	50000.000	53048.226	4782681.30	24.9069	A	2.4
8	☐	250000.00	249146.94	22454253.51	116.9650	A	1.5

$$y = 4.6945E-004 * x + 0.0035$$

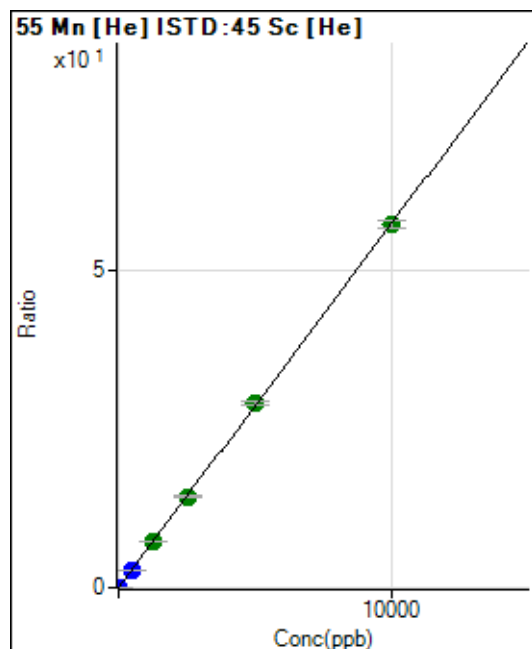
$$R = 0.9999$$

$$DL = 1.586$$

$$BEC = 7.498$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	90.00	0.0005	P	42.1
2	☐	1.000	0.962	1180.06	0.0060	P	3.9
3	☐	500.000	479.979	542235.27	2.7586	P	2.1
4	☐	1250.000	1273.771	1409048.09	7.3201	A	2.7
5	☐	2500.000	2495.786	2707859.89	14.3423	A	1.2
6	☐	5000.000	5071.225	5445058.22	29.1418	A	2.2
7	☐	10000.000	9963.471	10994825.04	57.2547	A	2.3
8	☐			14064.81	0.0733	P	1.9

$$y = 0.0057 * x + 4.5264E-004$$

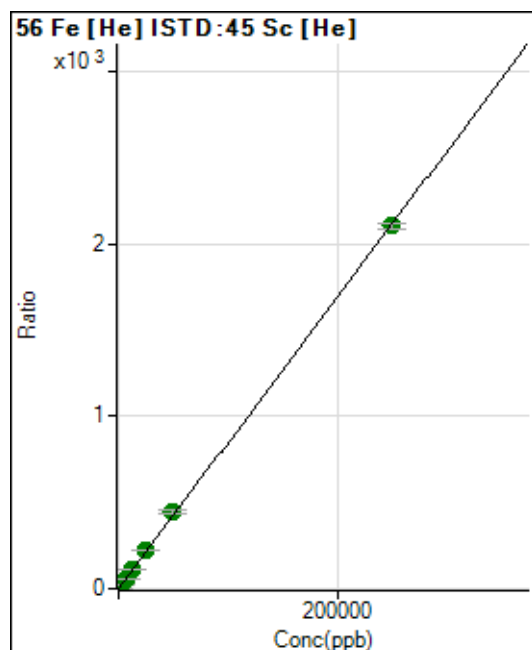
$$R = 1.0000$$

$$DL = 0.09957$$

$$BEC = 0.07877$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4269.23	0.0214	P	6.2
2	☐	50.000	48.455	84914.65	0.4304	P	0.6
3	☐	2500.000	2625.774	4360882.85	22.1858	A	1.8
4	☐	6250.000	6593.940	10716647.69	55.6815	A	1.4
5	☐	12500.000	13078.666	20849199.08	110.4197	A	0.8
6	☐	25000.000	26590.746	41946093.53	224.4764	A	1.3
7	☐	50000.000	52862.741	85691826.91	446.2408	A	2.6
8	☐	250000.00	249229.58	403887146.0	2,103.792	A	1.4

$$y = 0.0084 * x + 0.0214$$

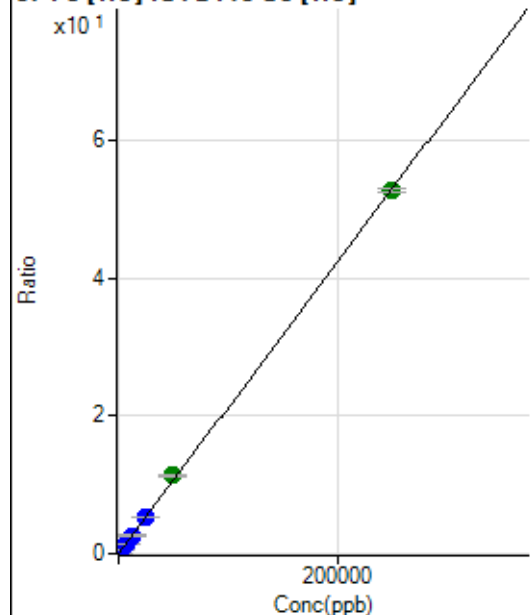
$$R = 0.9999$$

$$DL = 0.4735$$

$$BEC = 2.538$$

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	244.45	0.0012	P	17.8
2	☐	50.000	47.590	2224.29	0.0113	P	5.1
3	☐	2500.000	2502.611	104105.73	0.5297	P	3.1
4	☐	6250.000	6284.294	255634.13	1.3282	P	1.4
5	☐	12500.000	12516.236	499203.61	2.6440	P	1.1
6	☐	25000.000	25382.351	1001630.42	5.3607	P	2.6
7	☐	50000.000	53687.753	2176994.91	11.3374	A	2.7
8	☐	250000.00	249222.51	10103360.18	52.6245	A	1.1

$$y = 2.1115\text{E-}004 * x + 0.0012$$

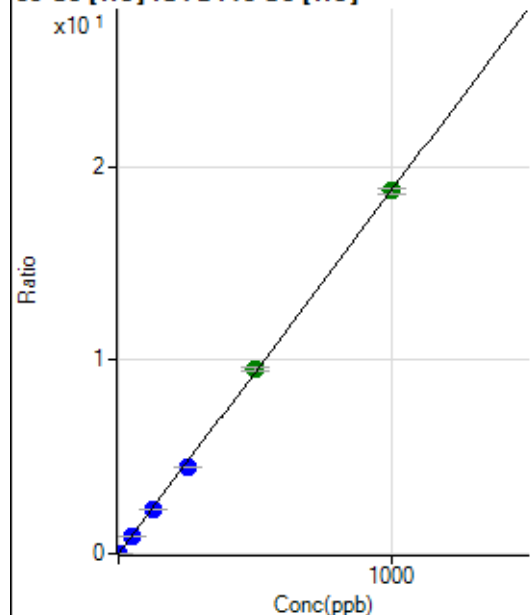
$$R = 0.9999$$

$$DL = 3.095$$

$$BEC = 5.802$$

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	73.33	0.0004	P	36.0
2	☐	1.000	0.945	3574.93	0.0181	P	2.3
3	☐	50.000	48.225	178073.76	0.9059	P	2.5
4	☐	125.000	121.224	438192.63	2.2767	P	0.3
5	☐	250.000	238.753	846498.14	4.4837	P	1.3
6	☐	500.000	509.308	1787130.62	9.5642	A	1.7
7	☐	1000.000	998.718	3601487.79	18.7544	A	1.7
8	☐			3992.83	0.0208	P	2.5

$$y = 0.0188 * x + 3.6740\text{E-}004$$

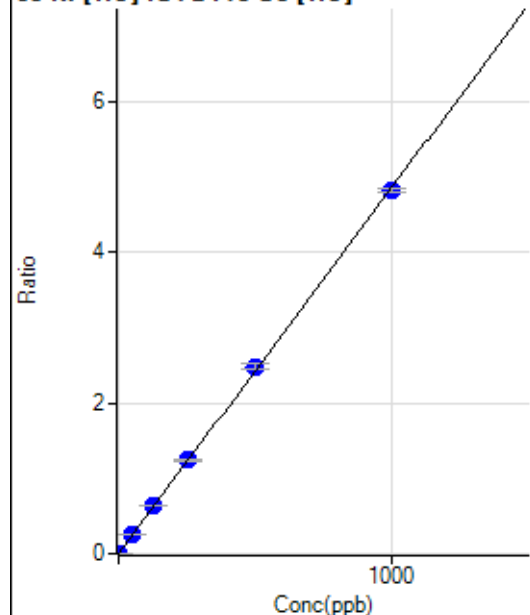
$$R = 0.9999$$

$$DL = 0.02112$$

$$BEC = 0.01957$$

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	41.11	0.0002	P	27.0
2	☐	1.000	0.997	995.60	0.0050	P	2.9
3	☐	50.000	52.157	49819.34	0.2535	P	3.8
4	☐	125.000	129.124	120710.66	0.6272	P	0.5
5	☐	250.000	256.246	234924.82	1.2444	P	1.8
6	☐	500.000	511.685	464244.10	2.4847	P	2.7
7	☐	1000.000	991.973	925044.69	4.8168	P	1.0
8	☐			2863.65	0.0149	P	2.7

$$y = 0.0049 * x + 2.0653E-004$$

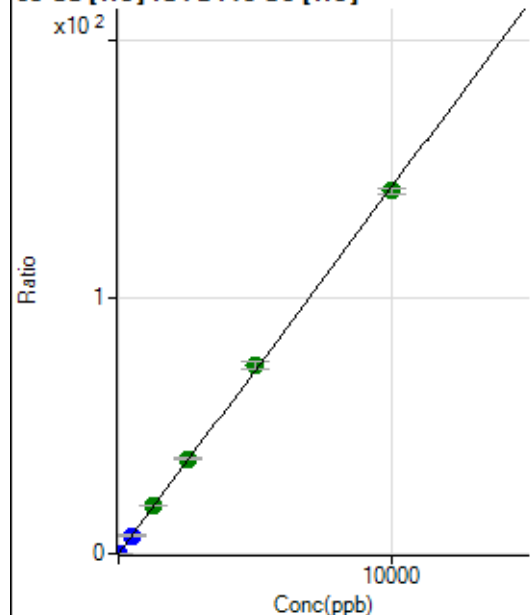
$$R = 0.9999$$

$$DL = 0.03439$$

$$BEC = 0.04254$$

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	1178.95	0.0059	P	1.6
2	☐	2.000	2.068	6999.56	0.0355	P	2.3
3	☐	500.000	497.300	1398724.30	7.1162	P	2.9
4	☐	1250.000	1306.944	3597287.79	18.6923	A	1.2
5	☐	2500.000	2591.143	6995567.33	37.0534	A	2.0
6	☐	5000.000	5144.888	13744442.29	73.5662	A	3.5
7	☐	10000.000	9897.787	27178469.87	141.5219	A	1.4
8	☐			14855.69	0.0774	P	4.9

$$y = 0.0143 * x + 0.0059$$

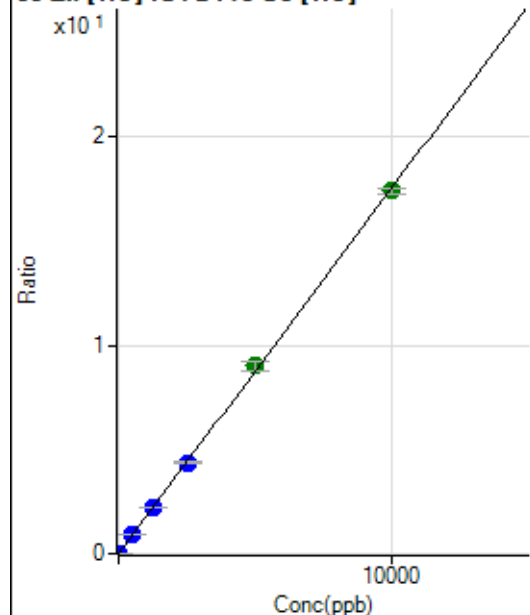
$$R = 0.9998$$

$$DL = 0.01926$$

$$BEC = 0.4137$$

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	187.78	0.0009	P	16.9
2	☐	2.000	2.188	942.26	0.0048	P	1.0
3	☐	500.000	507.138	174911.43	0.8899	P	1.3
4	☐	1250.000	1261.485	425762.09	2.2121	P	0.4
5	☐	2500.000	2483.242	821878.95	4.3537	P	2.0
6	☐	5000.000	5139.978	1683262.56	9.0106	A	4.9
7	☐	10000.000	9932.408	3343573.84	17.4111	A	1.5
8	☐			3099.26	0.0161	P	1.0

$$y = 0.0018 * x + 9.4194E-004$$

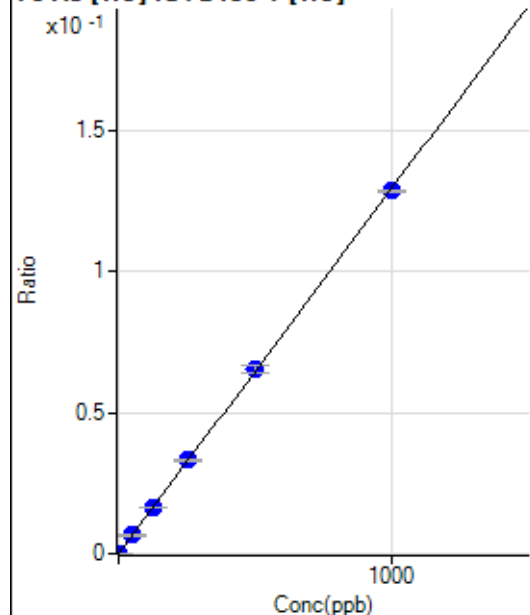
$$R = 0.9999$$

$$DL = 0.2716$$

$$BEC = 0.5374$$

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	2.33	0.0000	P	65.7
2	☐	1.000	1.054	199.02	0.0001	P	3.0
3	☐	50.000	50.551	9596.57	0.0065	P	2.8
4	☐	125.000	126.167	23358.61	0.0163	P	0.7
5	☐	250.000	257.864	46312.15	0.0334	P	1.8
6	☐	500.000	507.512	92423.70	0.0657	P	4.0
7	☐	1000.000	994.104	183889.12	0.1287	P	0.7
8	☐			94.68	0.0001	P	16.0

$$y = 1.2946E-004 * x + 1.6042E-006$$

$$R = 0.9999$$

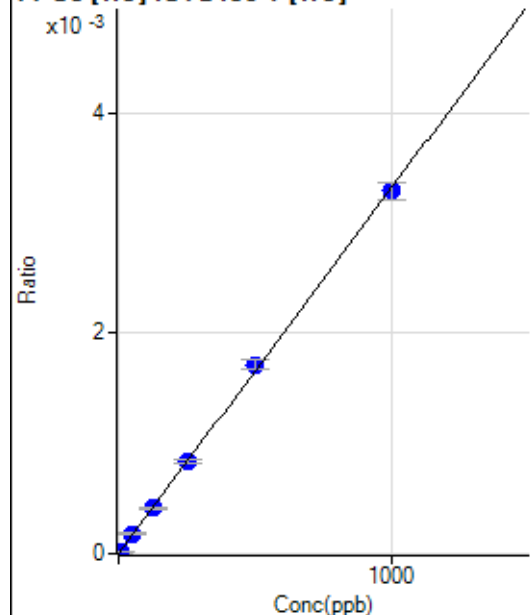
$$DL = 0.02442$$

$$BEC = 0.01239$$

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	1.11	0.0000	P	173.2
2	☐	5.000	6.275	31.11	0.0000	P	5.3
3	☐	50.000	53.068	258.89	0.0002	P	11.3
4	☐	125.000	123.764	587.80	0.0004	P	6.8
5	☐	250.000	250.570	1153.39	0.0008	P	3.6
6	☐	500.000	516.059	2409.12	0.0017	P	5.0
7	☐	1000.000	991.823	4698.62	0.0033	P	4.8
8	☐			7.78	0.0000	P	21.5

$$y = 3.3150\text{E-}006 * x + 7.6544\text{E-}007$$

$$R = 0.9998$$

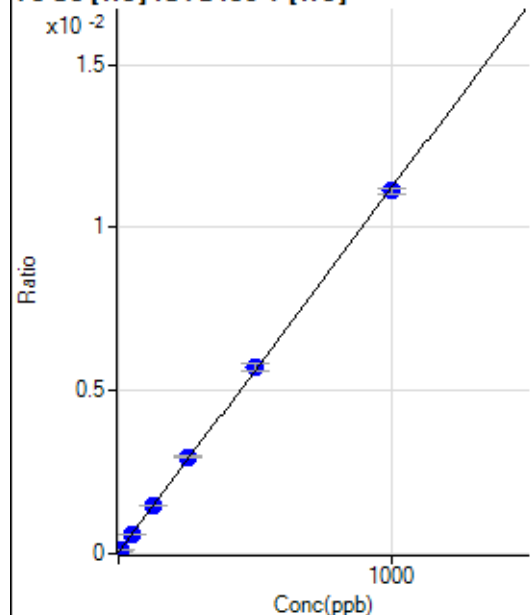
$$DL = 1.2$$

$$BEC = 0.2309$$

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	62.68	0.0000	P	2.3
2	☐	5.000	5.555	151.68	0.0001	P	8.4
3	☐	50.000	50.779	895.12	0.0006	P	2.8
4	☐	125.000	128.874	2120.38	0.0015	P	2.2
5	☐	250.000	261.379	4110.02	0.0030	P	1.7
6	☐	500.000	509.175	8059.80	0.0057	P	4.7
7	☐	1000.000	992.042	15893.55	0.0111	P	1.5
8	☐			71.68	0.0001	P	15.2

$$y = 1.1170\text{E-}005 * x + 4.3103\text{E-}005$$

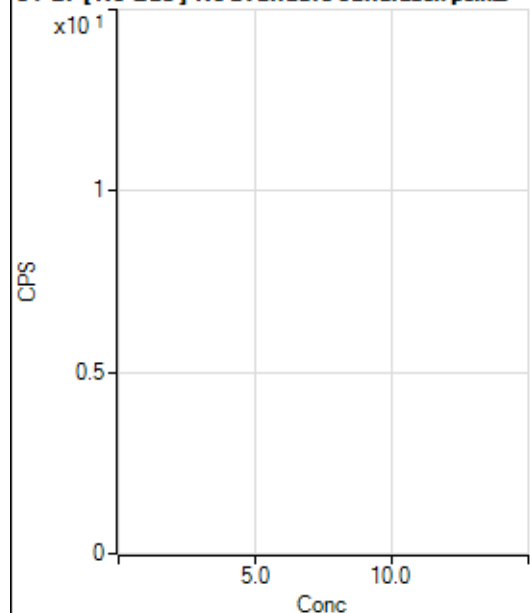
$$R = 0.9999$$

$$DL = 0.2608$$

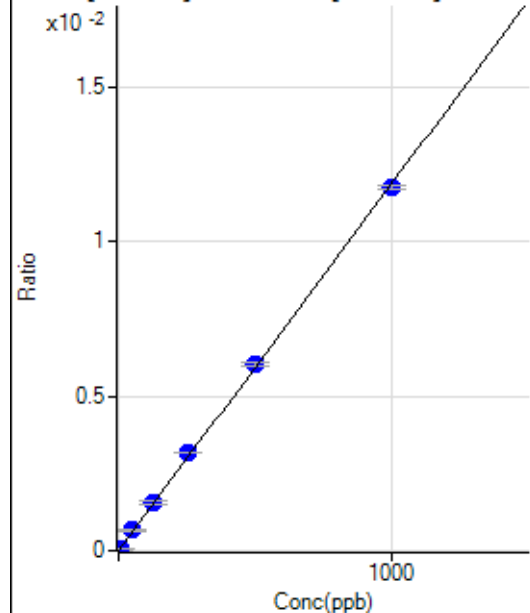
$$BEC = 3.859$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			47952.50		P	3.1
2	☐			47305.92		P	4.1
3	☐			48210.28		P	1.5
4	☐			45351.01		P	0.7
5	☐			44346.33		P	2.8
6	☐			45739.19		P	1.1
7	☐			45652.56		P	3.0
8	☐			44638.10		P	2.4

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	-20.83	0.0000	P	-153.
2	☐	5.000	5.521	875.36	0.0001	P	2.4
3	☐	50.000	55.431	8696.85	0.0007	P	2.1
4	☐	125.000	131.055	21288.18	0.0016	P	4.9
5	☐	250.000	267.025	42092.78	0.0032	P	0.9
6	☐	500.000	510.683	82349.68	0.0061	P	2.0
7	☐	1000.000	989.371	161094.94	0.0118	P	1.1
8	☐			324.98	0.0000	P	39.5

$$y = 1.1881E-005 * x - 1.5696E-006$$

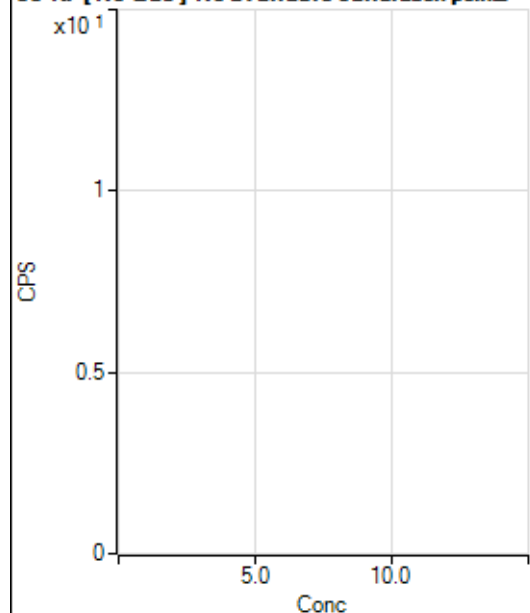
$$R = 0.9998$$

$$DL = 0.61$$

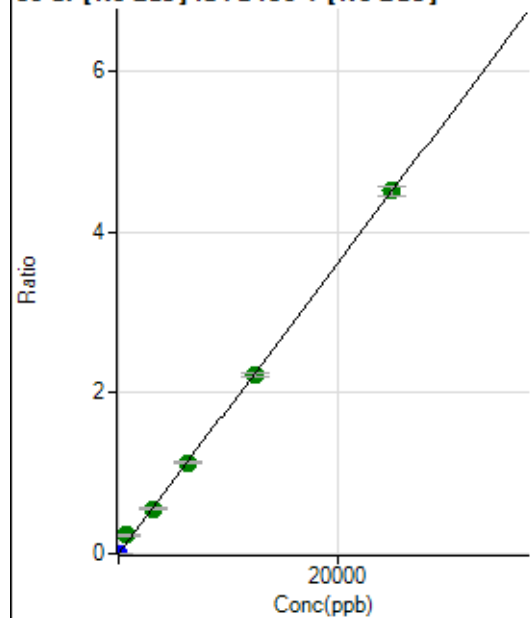
$$BEC = -0.1321$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			383.71		P	4.3
2	☐			344.13		P	1.1
3	☐			359.96		P	2.4
4	☐			367.46		P	7.7
5	☐			354.54		P	7.9
6	☐			367.46		P	4.8
7	☐			390.38		P	5.1
8	☐			410.37		P	8.8

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	611.14	0.0000	P	14.1
2	☐	1.000	1.005	3103.22	0.0002	P	2.4
3	☐	625.000	1269.984	3029183.60	0.2289	A	4.1
4	☐	3125.000	3098.560	7641488.19	0.5584	A	5.3
5	☐	6250.000	6298.301	15065789.75	1.1350	A	1.6
6	☐	12500.000	12312.075	30119421.16	2.2187	A	1.9
7	☐	25000.000	25069.067	61912138.88	4.5175	A	2.8
8	☐			49653.92	0.0039	P	64.2

$$y = 1.8020E-004 * x + 4.6065E-005$$

$$R = 0.9996$$

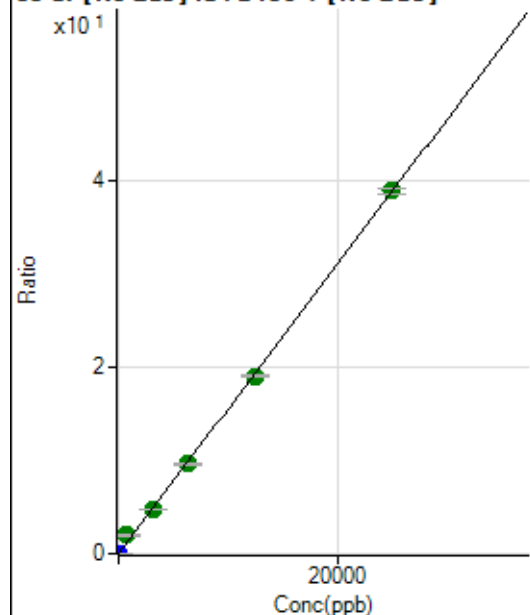
$$DL = 0.1078$$

$$BEC = 0.2556$$

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	191.67	0.0000	P	12.5
2	☐	1.000	0.932	19925.85	0.0015	P	2.1
3	☐	625.000	1279.599	26221912.91	1.9814	A	3.8
4	☐	3125.000	3052.124	64717116.72	4.7260	A	1.9
5	☐	6250.000	6240.998	128245541.7	9.6637	A	2.2
6	☐	12500.000	12300.760	258641941.8	19.0467	A	1.5
7	☐	25000.000	25094.615	532600128.5	38.8568	A	1.4
8	☐			445592.20	0.0351	P	64.5

$$y = 0.0015 * x + 1.4452E-005$$

$$R = 0.9996$$

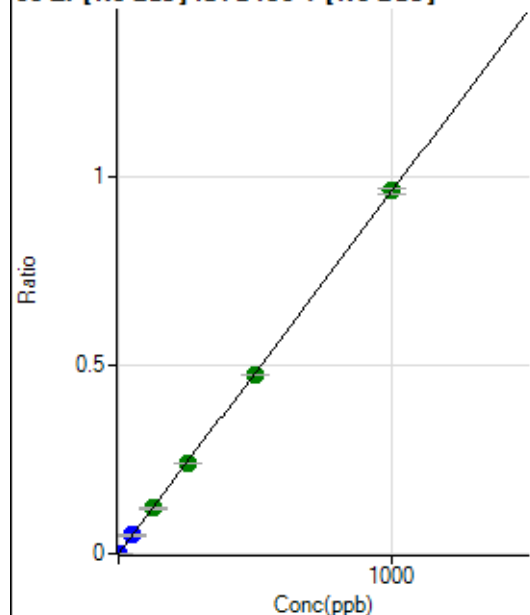
$$DL = 0.003493$$

$$BEC = 0.009333$$

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	538.91	0.0000	P	22.4
2	☐	1.000	0.914	12589.35	0.0009	P	0.5
3	☐	50.000	51.289	654141.51	0.0494	P	3.4
4	☐	125.000	125.552	1655310.55	0.1209	A	3.9
5	☐	250.000	251.376	3213548.27	0.2421	A	0.4
6	☐	500.000	495.003	6472138.25	0.4767	A	0.6
7	☐	1000.000	1002.021	13223375.47	0.9649	A	1.9
8	☐			10383.29	0.0008	P	59.4

$$y = 9.6287E-004 * x + 4.0557E-005$$

$$R = 1.0000$$

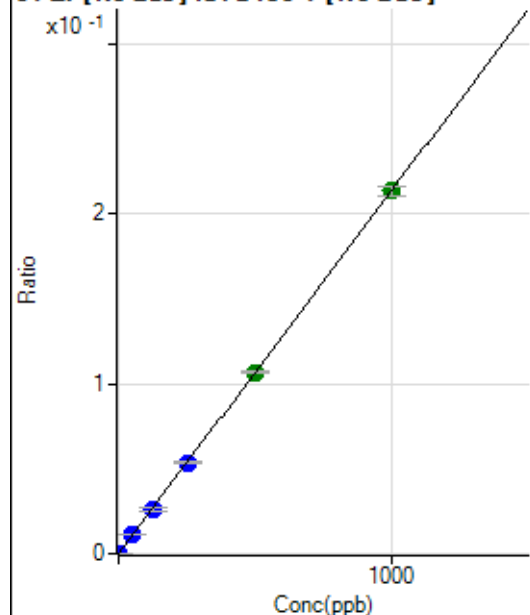
$$DL = 0.02837$$

$$BEC = 0.04212$$

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	88.89	0.0000	P	29.8
2	☐	1.000	0.884	2675.33	0.0002	P	6.7
3	☐	50.000	51.612	145926.62	0.0110	P	3.5
4	☐	125.000	122.292	357363.41	0.0261	P	6.0
5	☐	250.000	251.626	713080.75	0.0537	P	1.7
6	☐	500.000	499.969	1449447.56	0.1068	A	0.8
7	☐	1000.000	999.867	2925533.42	0.2135	A	3.0
8	☐			2295.56	0.0002	P	66.9

$$y = 2.1350\text{E-}004 * x + 6.7029\text{E-}006$$

$$R = 1.0000$$

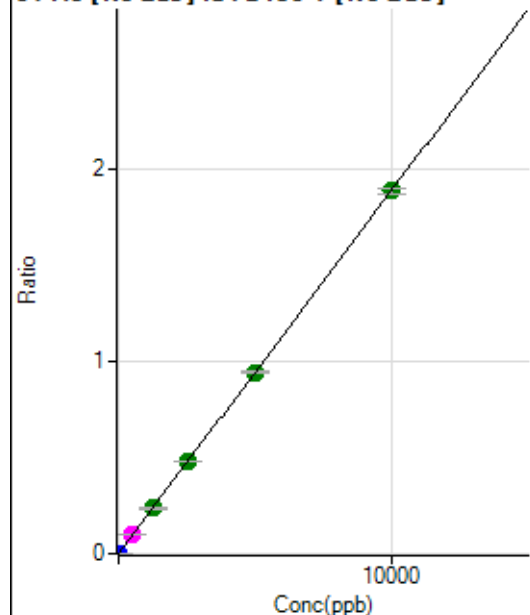
$$DL = 0.0281$$

$$BEC = 0.0314$$

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	133.34	0.0000	P	21.2
2	☐	5.000	5.489	14291.05	0.0010	P	2.8
3	☐	500.000	519.339	1296671.98	0.0980	M	2.7
4	☐	1250.000	1252.411	3232022.43	0.2362	A	6.7
5	☐	2500.000	2547.004	6376629.79	0.4804	A	1.0
6	☐	5000.000	4989.076	12776741.08	0.9410	A	1.4
7	☐	10000.000	9992.442	25832023.84	1.8848	A	1.4
8	☐			20867.13	0.0016	P	55.4

$$y = 1.8862\text{E-}004 * x + 1.0037\text{E-}005$$

$$R = 1.0000$$

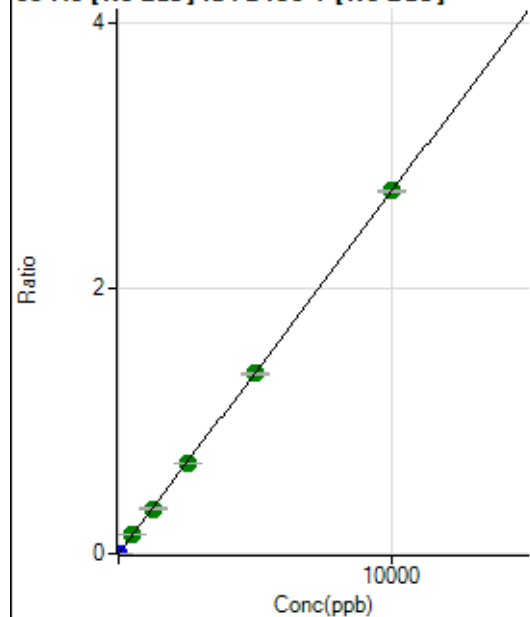
$$DL = 0.03377$$

$$BEC = 0.05321$$

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	16.67	0.0000	P	48.7
2	☐	5.000	4.765	17772.94	0.0013	P	2.5
3	☐	500.000	513.437	1852787.61	0.1400	A	3.1
4	☐	1250.000	1238.327	4620150.67	0.3376	A	5.4
5	☐	2500.000	2491.384	9015735.79	0.6793	A	1.1
6	☐	5000.000	4971.134	18403245.20	1.3553	A	1.8
7	☐	10000.000	10017.375	37435802.92	2.7312	A	0.8
8	☐			28778.39	0.0023	P	59.1

$$y = 2.7264\text{E-}004 * x + 1.2508\text{E-}006$$

$$R = 1.0000$$

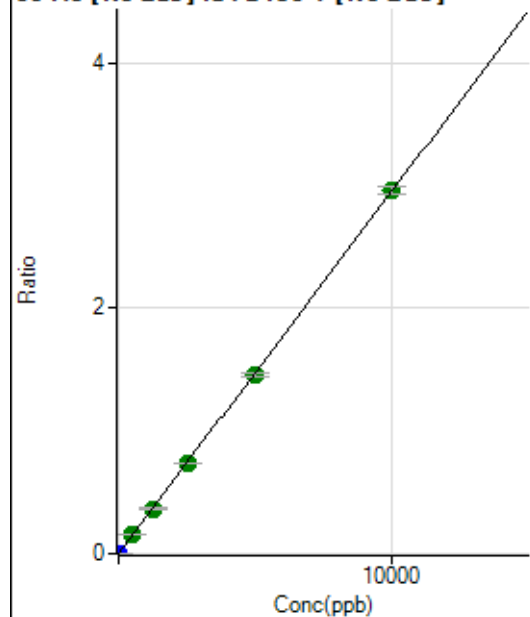
$$DL = 0.006698$$

$$BEC = 0.004588$$

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	175.01	0.0000	P	5.7
2	☐	5.000	4.826	19653.31	0.0014	P	1.4
3	☐	500.000	520.901	2035248.05	0.1537	A	1.3
4	☐	1250.000	1233.191	4980798.90	0.3639	A	4.9
5	☐	2500.000	2493.817	9769230.60	0.7360	A	1.5
6	☐	5000.000	4962.858	19885708.26	1.4646	A	2.0
7	☐	10000.000	10021.173	40530490.14	2.9574	A	2.0
8	☐			45583.99	0.0036	P	42.6

$$y = 2.9511\text{E-}004 * x + 1.3207\text{E-}005$$

$$R = 1.0000$$

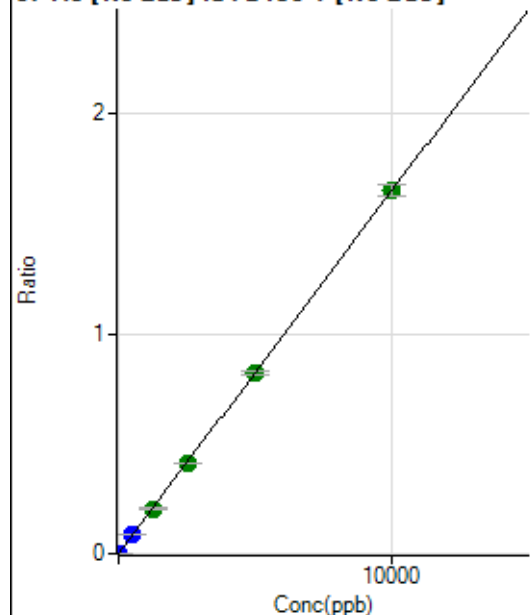
$$DL = 0.007694$$

$$BEC = 0.04475$$

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	16.67	0.0000	P	99.5
2	☐	5.000	5.008	11304.91	0.0008	P	2.2
3	☐	500.000	517.933	1130739.97	0.0854	P	2.2
4	☐	1250.000	1244.985	2810464.89	0.2053	A	4.4
5	☐	2500.000	2491.826	5454880.81	0.4110	A	1.2
6	☐	5000.000	4989.310	11172458.67	0.8229	A	1.6
7	☐	10000.000	10007.119	22616780.36	1.6505	A	3.2
8	☐			17645.43	0.0014	P	61.2

$$y = 1.6493E-004 * x + 1.2645E-006$$

$$R = 1.0000$$

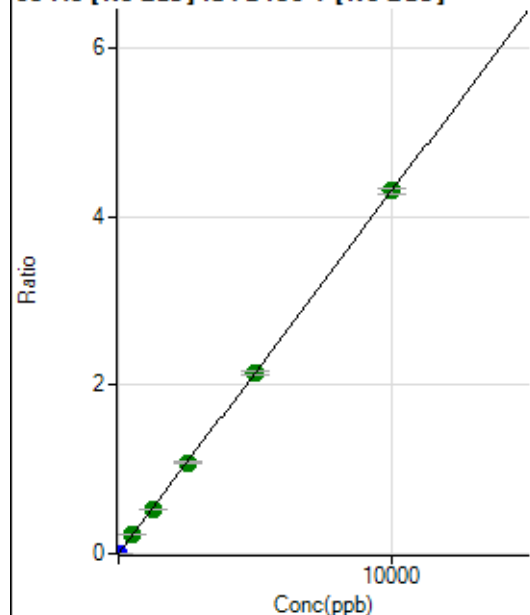
$$DL = 0.02288$$

$$BEC = 0.007667$$

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	30.56	0.0000	P	104.5
2	☐	5.000	4.806	28282.44	0.0021	P	2.6
3	☐	500.000	518.918	2953139.48	0.2231	A	2.3
4	☐	1250.000	1235.880	7276864.05	0.5313	A	1.6
5	☐	2500.000	2509.434	14319222.89	1.0789	A	1.6
6	☐	5000.000	4978.086	29055318.36	2.1403	A	2.1
7	☐	10000.000	10009.418	58979322.84	4.3034	A	1.7
8	☐			43444.97	0.0034	P	51.0

$$y = 4.2993E-004 * x + 2.3250E-006$$

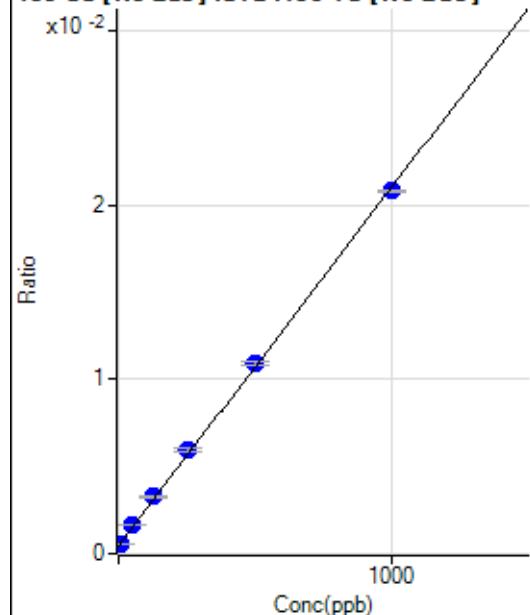
$$R = 1.0000$$

$$DL = 0.01696$$

$$BEC = 0.005408$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	5023.27	0.0005	P	4.5
2	☐	1.000	0.574	5078.84	0.0005	P	1.3
3	☐	50.000	55.577	15959.74	0.0017	P	4.5
4	☐	125.000	135.580	33101.58	0.0033	P	4.4
5	☐	250.000	265.049	59891.99	0.0059	P	2.3
6	☐	500.000	509.510	111870.61	0.0110	P	2.0
7	☐	1000.000	989.882	215715.20	0.0208	P	0.9
8	☐			4901.01	0.0005	P	6.5

$$y = 2.0506\text{E-}005 * x + 5.1042\text{E-}004$$

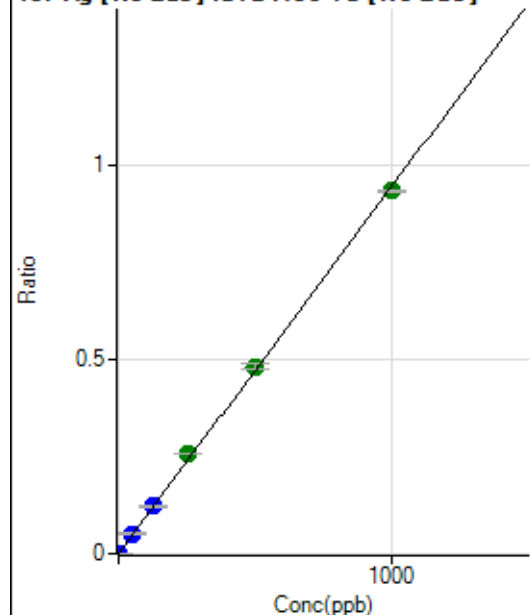
$$R = 0.9998$$

$$DL = 3.339$$

$$BEC = 24.89$$

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	313.90	0.0000	P	24.6
2	☐	1.000	1.082	10256.92	0.0011	P	4.7
3	☐	50.000	54.898	502065.34	0.0519	P	0.8
4	☐	125.000	128.523	1222551.17	0.1215	P	2.8
5	☐	250.000	272.130	2592417.24	0.2572	A	0.9
6	☐	500.000	509.659	4916919.29	0.4817	A	2.8
7	☐	1000.000	988.953	9689860.37	0.9347	A	0.5
8	☐			7958.83	0.0008	P	24.6

$$y = 9.4511\text{E-}004 * x + 3.1968\text{E-}005$$

$$R = 0.9997$$

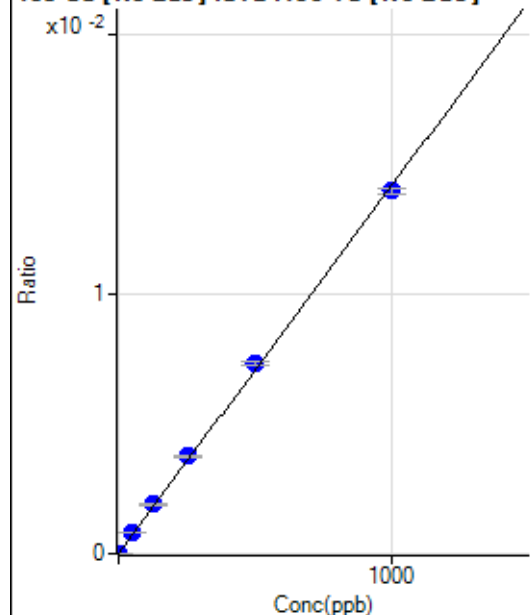
$$DL = 0.02497$$

$$BEC = 0.03382$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	38.89	0.0000	P	6.1
2	☐	1.000	0.993	175.00	0.0000	P	15.5
3	☐	50.000	58.352	8020.48	0.0008	P	1.9
4	☐	125.000	134.439	19175.99	0.0019	P	2.2
5	☐	250.000	264.616	37750.34	0.0037	P	1.3
6	☐	500.000	516.500	74612.30	0.0073	P	2.3
7	☐	1000.000	986.498	144687.25	0.0140	P	1.5
8	☐			162.50	0.0000	P	26.7

$$y = 1.4144\text{E-}005 * x + 3.9500\text{E-}006$$

$$R = 0.9997$$

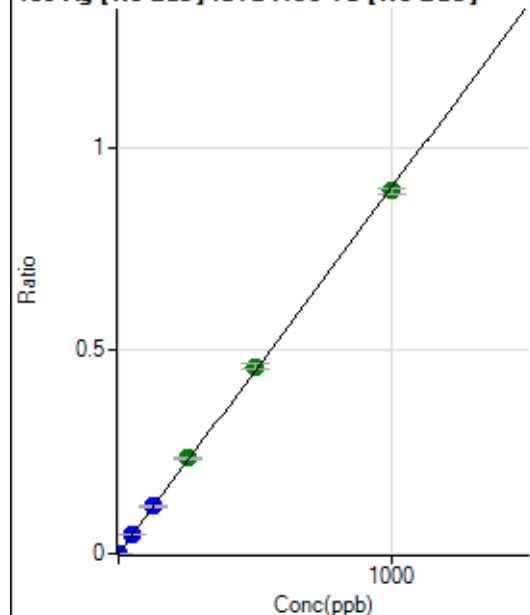
$$DL = 0.05117$$

$$BEC = 0.2793$$

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	175.01	0.0000	P	25.1
2	☐	1.000	1.076	9609.19	0.0010	P	2.7
3	☐	50.000	54.632	476635.29	0.0493	P	1.1
4	☐	125.000	129.396	1173919.47	0.1167	P	5.2
5	☐	250.000	260.597	2368403.61	0.2350	A	0.5
6	☐	500.000	510.921	4702637.17	0.4608	A	3.4
7	☐	1000.000	991.109	9265618.26	0.8938	A	1.3
8	☐			7494.44	0.0008	P	24.7

$$y = 9.0183\text{E-}004 * x + 1.7808\text{E-}005$$

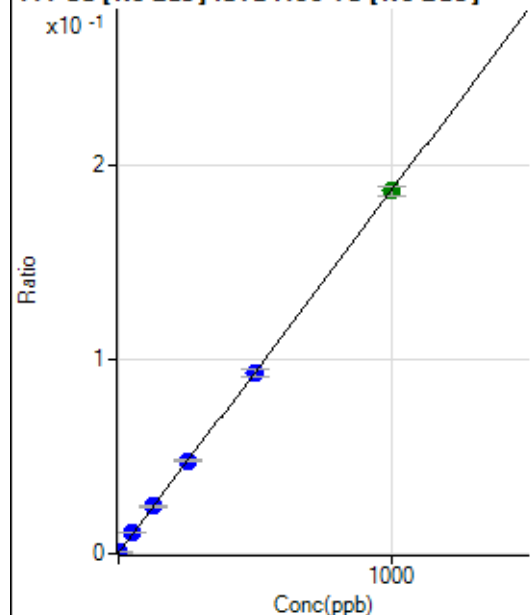
$$R = 0.9998$$

$$DL = 0.01484$$

$$BEC = 0.01975$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	3494.62	0.0004	P	4.5
2	☐	1.000	1.019	5302.28	0.0005	P	1.5
3	☐	50.000	54.698	102212.99	0.0106	P	1.4
4	☐	125.000	129.304	246479.54	0.0245	P	4.3
5	☐	250.000	254.980	483243.12	0.0480	P	2.1
6	☐	500.000	497.430	951664.64	0.0932	P	3.5
7	☐	1000.000	999.267	1937913.75	0.1870	A	3.0
8	☐			4653.21	0.0005	P	12.5

$$y = 1.8674\text{E-}004 * x + 3.5510\text{E-}004$$

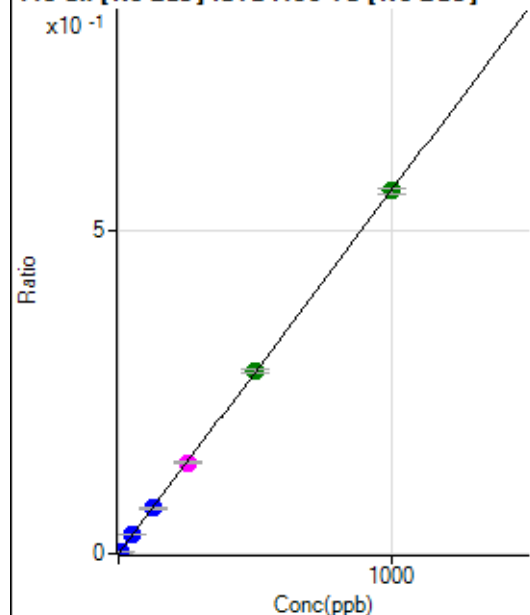
$$R = 1.0000$$

$$DL = 0.2561$$

$$BEC = 1.902$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1325.10	0.0001	P	12.0
2	☐	5.000	5.551	31578.42	0.0033	P	14.9
3	☐	50.000	52.682	287288.48	0.0297	P	0.5
4	☐	125.000	124.858	706476.19	0.0702	P	3.6
5	☐	250.000	249.957	1414820.53	0.1404	M	2.7
6	☐	500.000	502.523	2880737.72	0.2822	A	2.7
7	☐	1000.000	998.630	5812278.82	0.5607	A	1.7
8	☐			9246.01	0.0010	P	24.0

$$y = 5.6134\text{E-}004 * x + 1.3454\text{E-}004$$

$$R = 1.0000$$

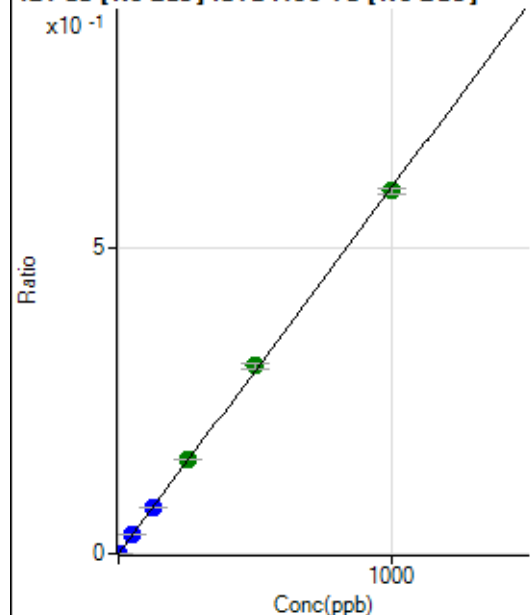
$$DL = 0.0863$$

$$BEC = 0.2397$$

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	36.11	0.0000	P	73.8
2	☐	2.000	1.978	11519.02	0.0012	P	2.7
3	☐	50.000	52.748	304701.66	0.0315	P	1.6
4	☐	125.000	126.080	757566.86	0.0753	P	4.1
5	☐	250.000	255.567	1538372.98	0.1526	A	0.5
6	☐	500.000	514.279	3134949.03	0.3072	A	3.1
7	☐	1000.000	991.196	6136855.13	0.5920	A	1.6
8	☐			6238.55	0.0006	P	22.4

$$y = 5.9727\text{E-}004 * x + 3.6680\text{E-}006$$

$$R = 0.9998$$

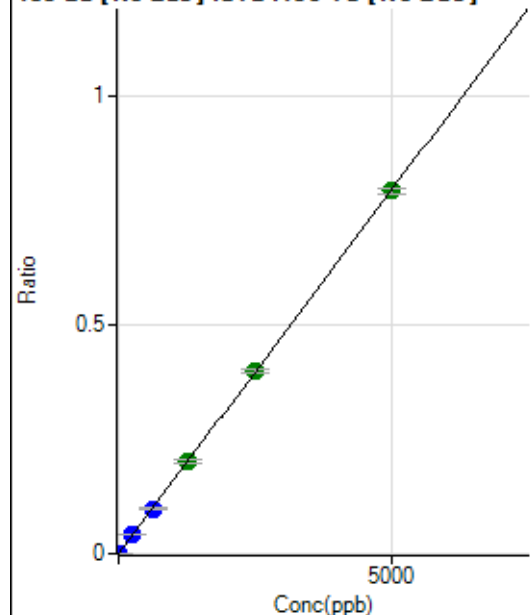
$$DL = 0.0136$$

$$BEC = 0.006141$$

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	11.11	0.0000	P	45.1
2	☐	10.000	9.429	14549.89	0.0015	P	1.5
3	☐	250.000	258.002	395603.43	0.0409	P	1.8
4	☐	625.000	618.937	987747.46	0.0981	P	1.1
5	☐	1250.000	1270.674	2029634.49	0.2015	A	2.3
6	☐	2500.000	2509.785	4061994.19	0.3979	A	2.0
7	☐	5000.000	4990.298	8202836.81	0.7912	A	1.5
8	☐			7798.59	0.0008	P	34.1

$$y = 1.5855\text{E-}004 * x + 1.1337\text{E-}006$$

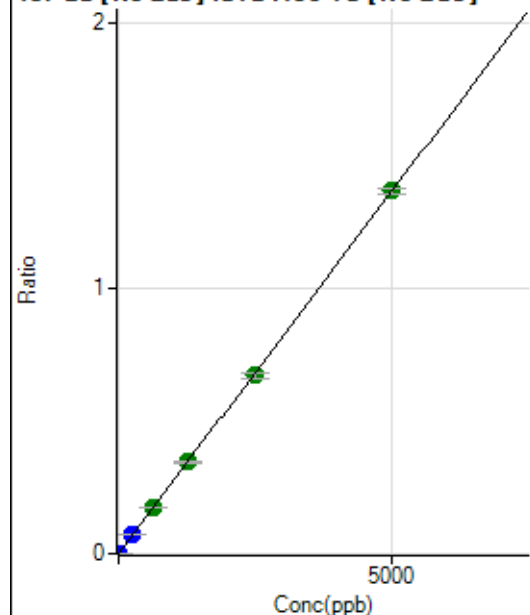
$$R = 1.0000$$

$$DL = 0.009674$$

$$BEC = 0.00715$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	27.78	0.0000	P	92.5
2	☐	10.000	9.755	25897.78	0.0027	P	2.9
3	☐	250.000	263.353	694731.32	0.0718	P	0.2
4	☐	625.000	642.516	1763619.40	0.1753	A	2.4
5	☐	1250.000	1270.170	3490542.72	0.3465	A	1.6
6	☐	2500.000	2459.524	6847090.73	0.6709	A	3.2
7	☐	5000.000	5012.339	14173999.97	1.3672	A	1.3
8	☐			13712.25	0.0014	P	36.2

$$y = 2.7277E-004 * x + 2.8355E-006$$

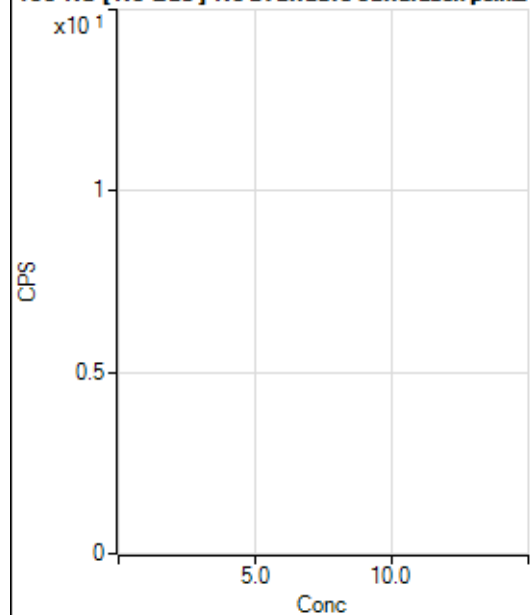
$$R = 0.9999$$

$$DL = 0.02883$$

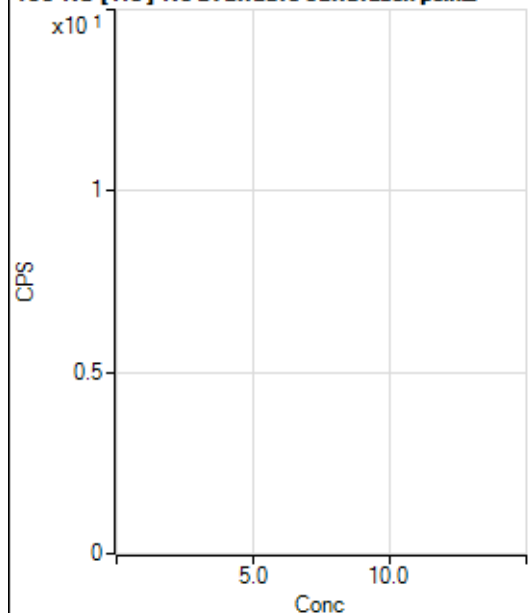
$$BEC = 0.0104$$

Weight: <None>

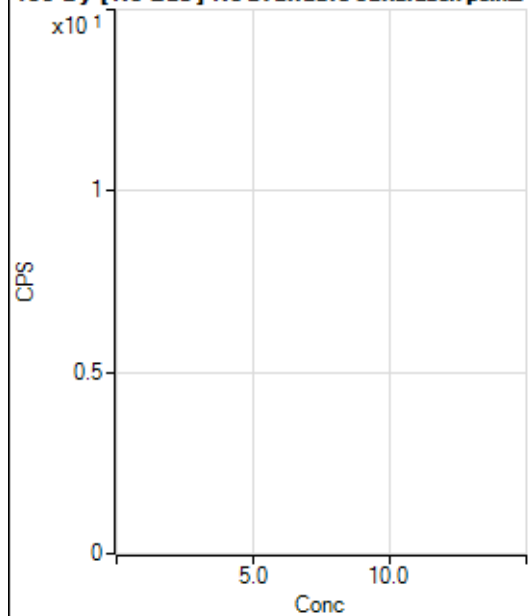
Min Conc: 0

150 Nd [No Gas] No available calibration points

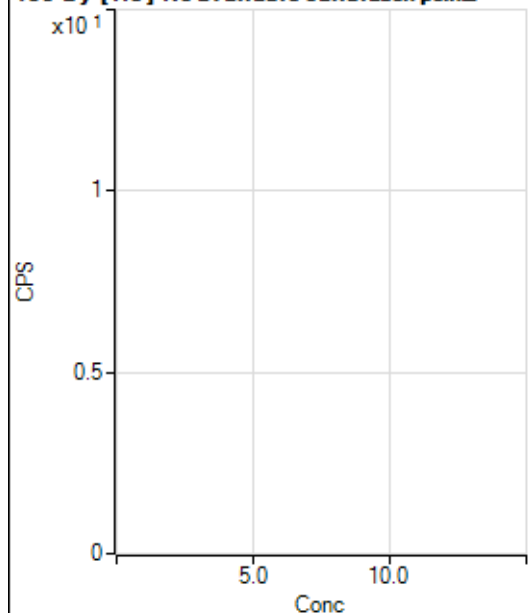
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			6.67		P	100.0
2	☐			13.33		P	50.0
3	☐			46.67		P	14.3
4	☐			124.45		P	20.3
5	☐			222.23		P	15.1
6	☐			440.02		P	9.2
7	☐			788.93		P	6.5
8	☐			46.67		P	24.7

150 Nd [He] No available calibration points

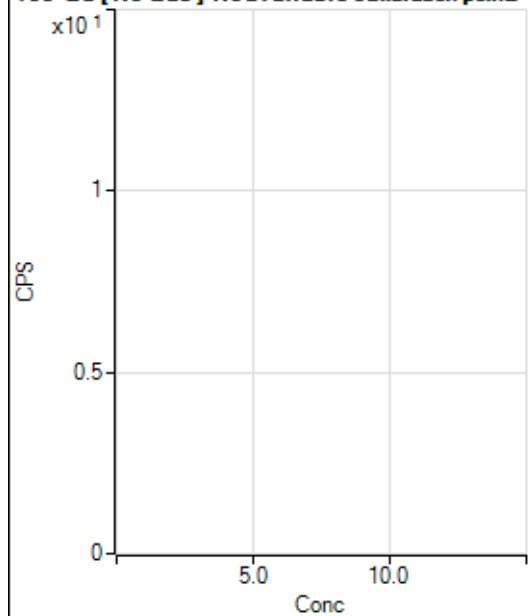
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	86.6
2	☐			0.00		P	
3	☐			6.66		P	86.6
4	☐			6.66		P	86.6
5	☐			17.78		P	57.3
6	☐			36.66		P	15.7
7	☐			67.78		P	37.2
8	☐			15.55		P	44.6

156 Dy [No Gas] No available calibration points

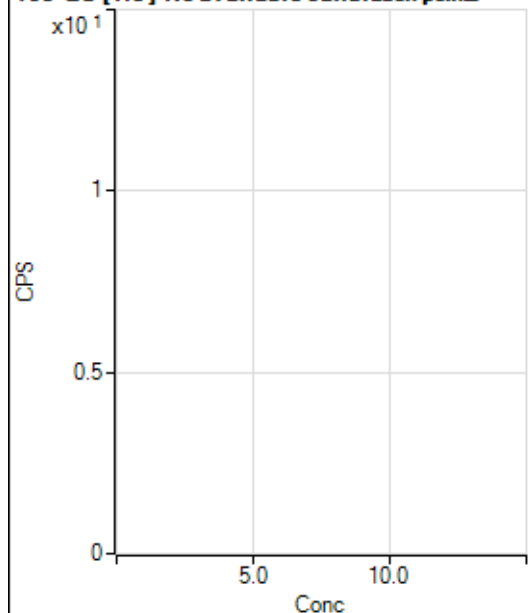
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.56		P	173.2
2	☐			11.11		P	114.6
3	☐			25.00		P	0.0
4	☐			88.89		P	27.1
5	☐			158.34		P	13.9
6	☐			255.56		P	18.0
7	☐			572.25		P	20.1
8	☐			1533.46		P	9.4

156 Dy [He] No available calibration points

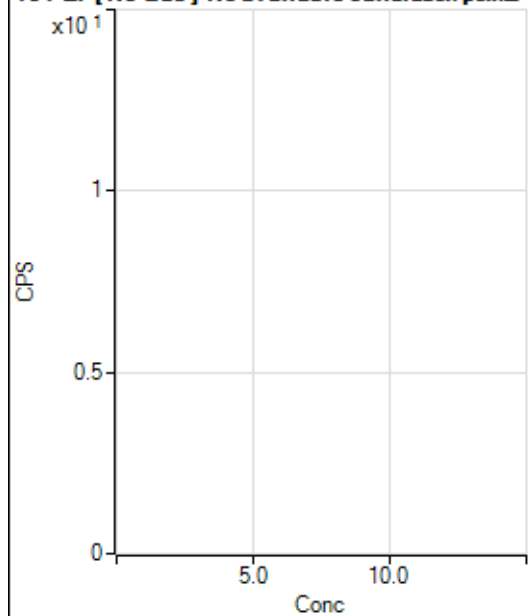
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.2
2	☐			0.00		P	
3	☐			12.22		P	15.7
4	☐			24.44		P	34.3
5	☐			47.78		P	4.0
6	☐			103.33		P	8.5
7	☐			268.90		P	3.1
8	☐			584.46		P	5.1

160 Gd [No Gas] Noavailable calibration poin_

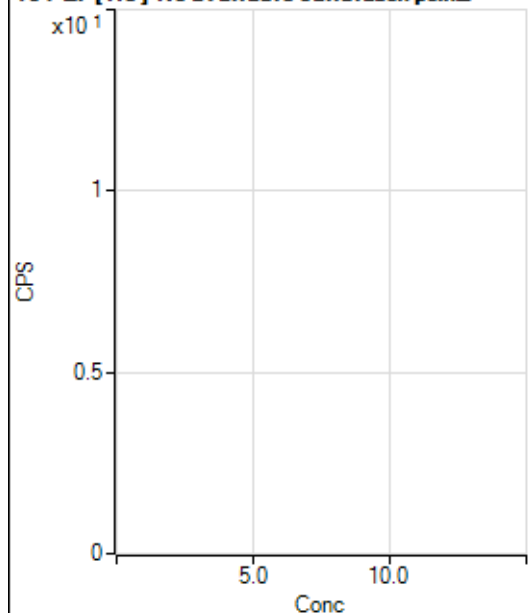
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			105.56		P	45.6
2	☐			77.78		P	32.7
3	☐			105.56		P	4.6
4	☐			136.11		P	35.9
5	☐			227.79		P	16.5
6	☐			277.79		P	9.6
7	☐			494.47		P	6.8
8	☐			1647.37		P	5.1

160 Gd [He] No available calibration points

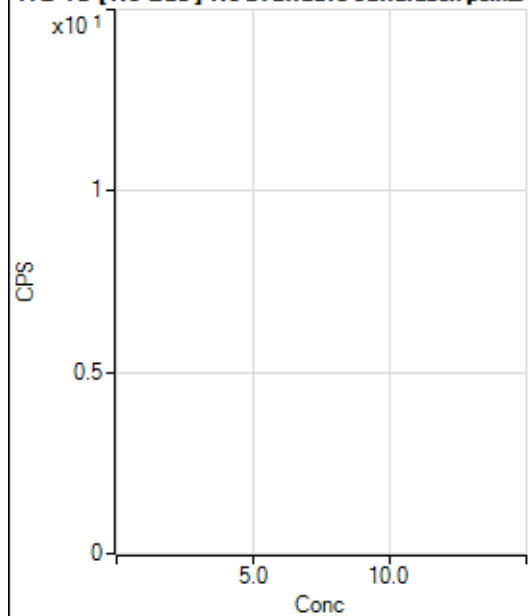
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			117.78		P	7.1
2	☐			116.67		P	15.1
3	☐			142.23		P	12.9
4	☐			145.56		P	7.0
5	☐			168.89		P	19.5
6	☐			215.56		P	14.4
7	☐			332.23		P	5.7
8	☐			766.70		P	4.1

164 Er [No Gas] No available calibration points

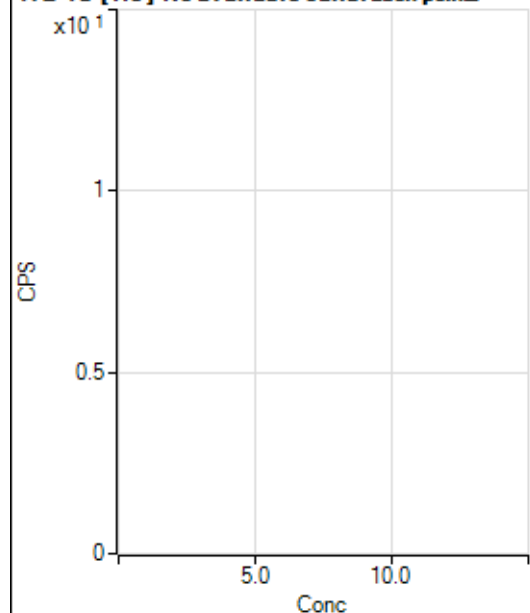
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			52.78		P	24.1
2	☐			61.11		P	28.4
3	☐			77.78		P	12.4
4	☐			91.67		P	9.1
5	☐			91.67		P	15.7
6	☐			122.23		P	28.4
7	☐			244.45		P	2.0
8	☐			113.90		P	8.5

164 Er [He] No available calibration points

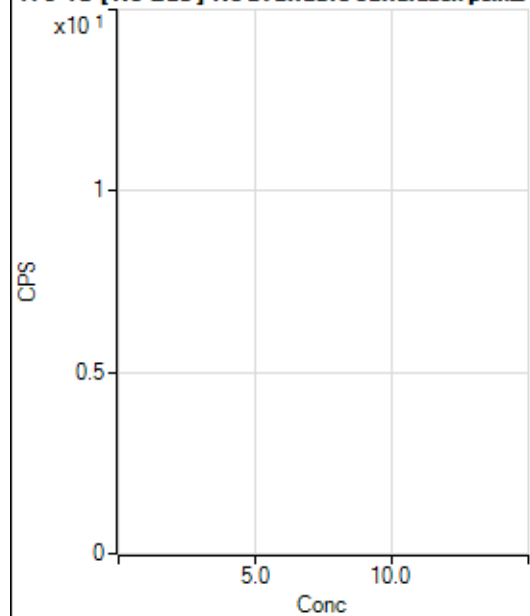
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			24.44		P	41.7
2	☐			18.89		P	36.7
3	☐			31.11		P	16.4
4	☐			25.55		P	52.7
5	☐			42.22		P	25.4
6	☐			71.11		P	42.3
7	☐			70.00		P	23.8
8	☐			42.22		P	35.6

172 Yb [No Gas] No available calibration points

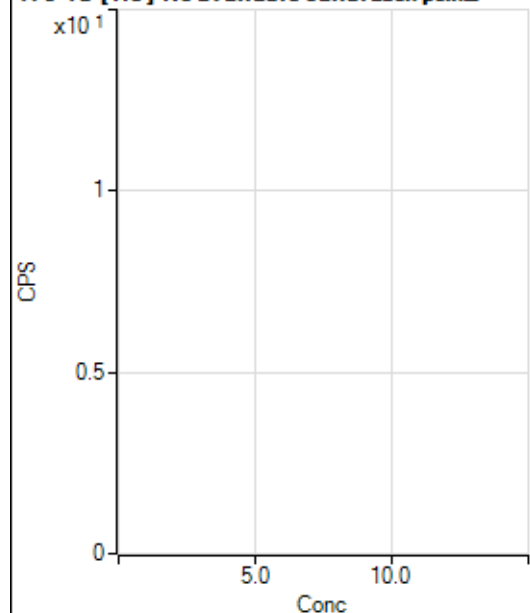
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			66.67		P	78.1
2	☐			61.11		P	7.9
3	☐			75.00		P	50.9
4	☐			97.22		P	48.7
5	☐			133.33		P	10.8
6	☐			202.79		P	14.4
7	☐			297.23		P	13.0
8	☐			616.70		P	3.6

172 Yb [He] No available calibration points

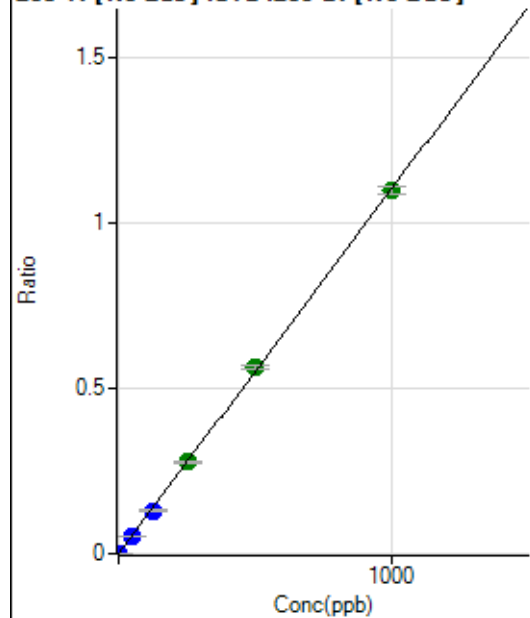
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			25.93		P	12.4
2	☐			22.22		P	50.0
3	☐			40.74		P	20.8
4	☐			40.74		P	56.8
5	☐			46.30		P	25.0
6	☐			70.37		P	31.9
7	☐			114.82		P	20.1
8	☐			242.60		P	10.3

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1777.95		P	5.3
2	☐			1791.84		P	3.7
3	☐			3031.00		P	4.9
4	☐			5412.39		P	3.4
5	☐			8869.88		P	4.8
6	☐			15926.71		P	0.9
7	☐			30341.25		P	0.5
8	☐			1869.64		P	2.7

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			9581.42		P	5.6
2	☐			9516.56		P	2.7
3	☐			10159.65		P	1.8
4	☐			10697.14		P	2.0
5	☐			12153.93		P	3.0
6	☐			15147.84		P	2.1
7	☐			20798.19		P	1.9
8	☐			9800.12		P	4.5

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	180.56	0.0000	P	9.4
2	☐	1.000	0.878	6162.79	0.0010	P	4.2
3	☐	50.000	47.319	325321.59	0.0522	P	3.5
4	☐	125.000	117.426	824798.72	0.1295	P	4.9
5	☐	250.000	251.139	1738913.13	0.2769	A	1.2
6	☐	500.000	511.821	3489086.80	0.5643	A	2.0
7	☐	1000.000	994.886	6856008.14	1.0968	A	2.3
8	☐			4217.79	0.0008	P	36.0

$$y = 0.0011 * x + 2.8912E-005$$

$$R = 0.9999$$

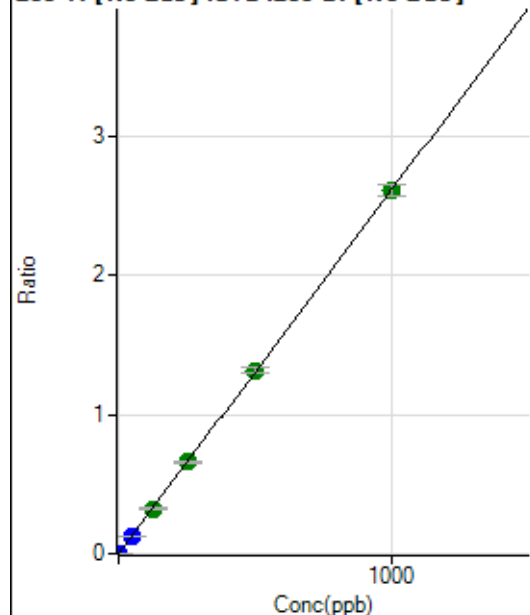
$$DL = 0.007417$$

$$BEC = 0.02623$$

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	525.03	0.0001	P	12.2
2	☐	1.000	0.916	15326.10	0.0025	P	3.3
3	☐	50.000	48.173	785972.05	0.1261	P	3.5
4	☐	125.000	123.894	2065190.24	0.3242	A	4.1
5	☐	250.000	251.852	4138665.11	0.6589	A	2.9
6	☐	500.000	503.670	8146345.67	1.3176	A	3.1
7	☐	1000.000	997.932	16315369.29	2.6105	A	3.0
8	☐			10612.59	0.0020	P	37.6

$$y = 0.0026 * x + 8.4092E-005$$

$$R = 1.0000$$

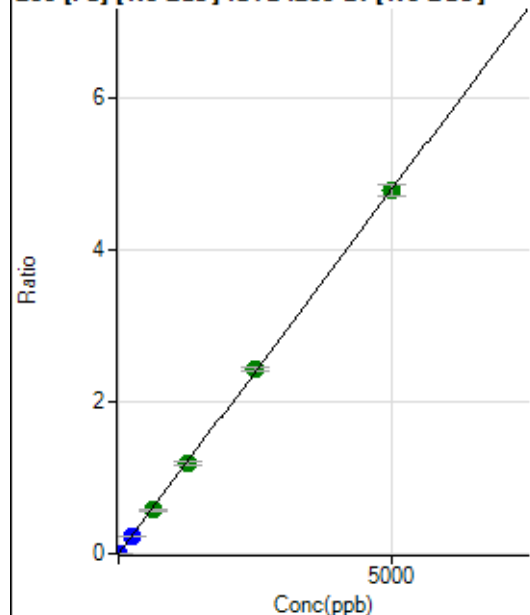
$$DL = 0.01174$$

$$BEC = 0.03215$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	666.70	0.0001	P	9.3
2	☐	1.000	0.891	5934.80	0.0010	P	5.2
3	☐	250.000	230.088	1374089.06	0.2204	P	3.1
4	☐	625.000	604.352	3687461.48	0.5788	A	4.4
5	☐	1250.000	1247.805	7505750.11	1.1950	A	3.4
6	☐	2500.000	2536.989	15021256.94	2.4295	A	3.1
7	☐	5000.000	4985.631	29838420.81	4.7744	A	3.1
8	☐			16764.68	0.0032	P	33.0

$$y = 9.5760E-004 * x + 1.0677E-004$$

$$R = 0.9999$$

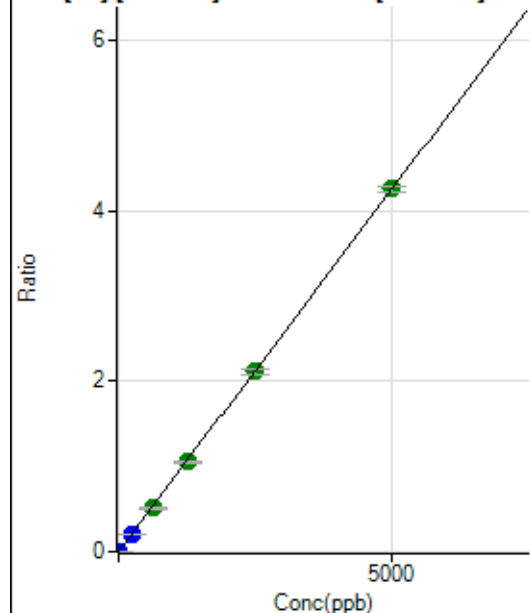
$$DL = 0.03105$$

$$BEC = 0.1115$$

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	625.95	0.0001	P	19.0
2	☐	1.000	0.857	5119.63	0.0008	P	2.6
3	☐	250.000	234.003	1240164.21	0.1989	P	2.6
4	☐	625.000	599.947	3248137.66	0.5099	A	4.3
5	☐	1250.000	1238.477	6610398.24	1.0524	A	2.5
6	☐	2500.000	2492.197	13093267.19	2.1177	A	3.0
7	☐	5000.000	5010.714	26617489.71	4.2576	A	1.4
8	☐			14907.83	0.0028	P	34.4

$$y = 8.4969\text{E-}004 * x + 1.0026\text{E-}004$$

$$R = 1.0000$$

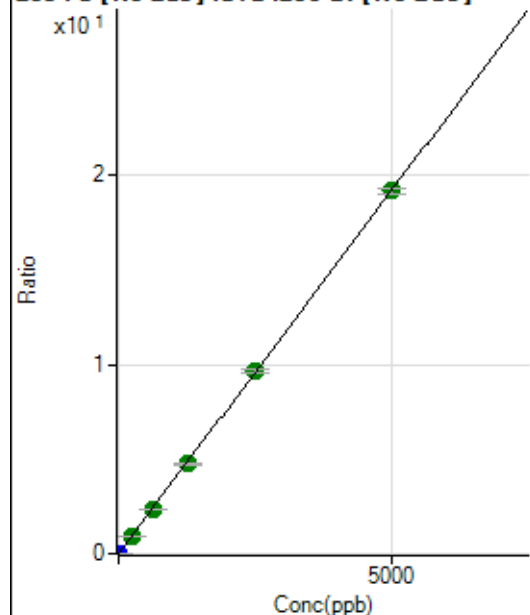
$$DL = 0.06723$$

$$BEC = 0.118$$

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	2872.41	0.0005	P	7.4
2	☐	1.000	0.867	23414.23	0.0038	P	1.0
3	☐	250.000	243.505	5835467.32	0.9358	A	1.0
4	☐	625.000	607.842	14878059.61	2.3353	A	3.8
5	☐	1250.000	1240.780	29937473.82	4.7664	A	1.8
6	☐	2500.000	2514.681	59724654.46	9.6597	A	2.8
7	☐	5000.000	4997.434	120000465.6	19.1962	A	1.8
8	☐			67526.33	0.0129	P	36.7

$$y = 0.0038 * x + 4.6003\text{E-}004$$

$$R = 1.0000$$

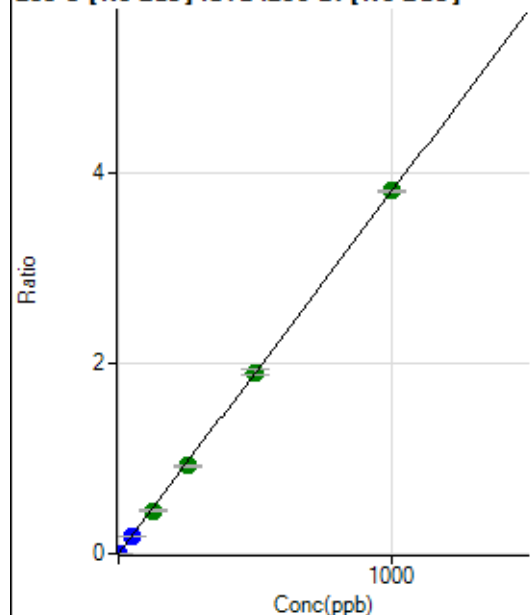
$$DL = 0.0266$$

$$BEC = 0.1198$$

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	22.22	0.0000	P	57.2
2	☐	1.000	0.872	20533.89	0.0033	P	0.6
3	☐	50.000	46.549	1104356.14	0.1771	P	2.3
4	☐	125.000	118.542	2875197.55	0.4511	A	2.5
5	☐	250.000	242.210	5789075.04	0.9217	A	0.8
6	☐	500.000	501.371	11796942.02	1.9080	A	3.2
7	☐	1000.000	1002.242	23849859.21	3.8140	A	0.7
8	☐			10796.35	0.0021	P	51.5

$$y = 0.0038 * x + 3.5565E-006$$

$$R = 1.0000$$

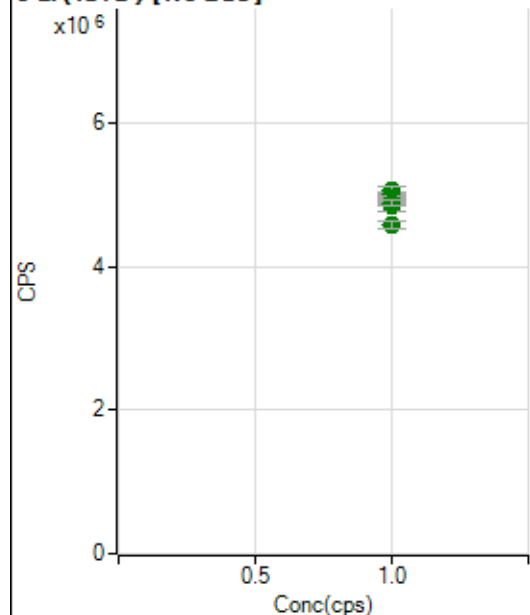
$$DL = 0.001605$$

$$BEC = 0.0009346$$

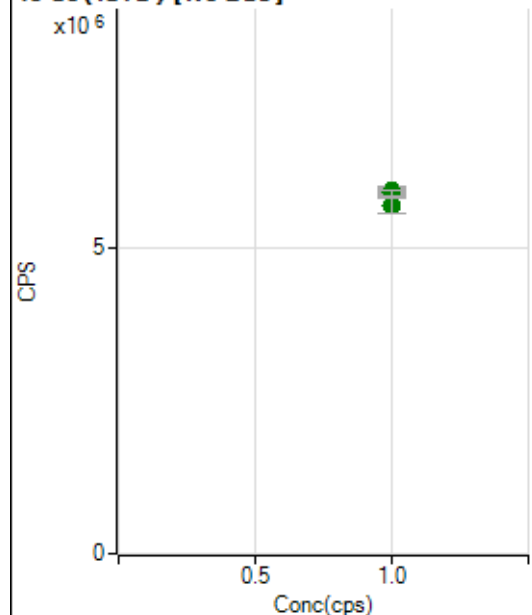
Weight: <None>

Min Conc: 0

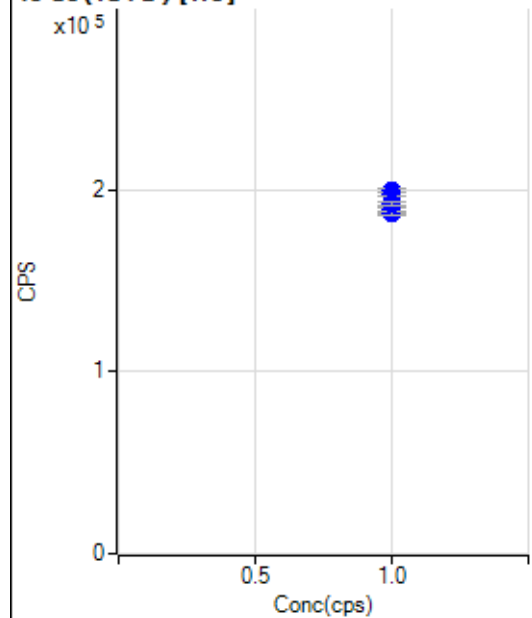
6 Li (ISTD) [No Gas]



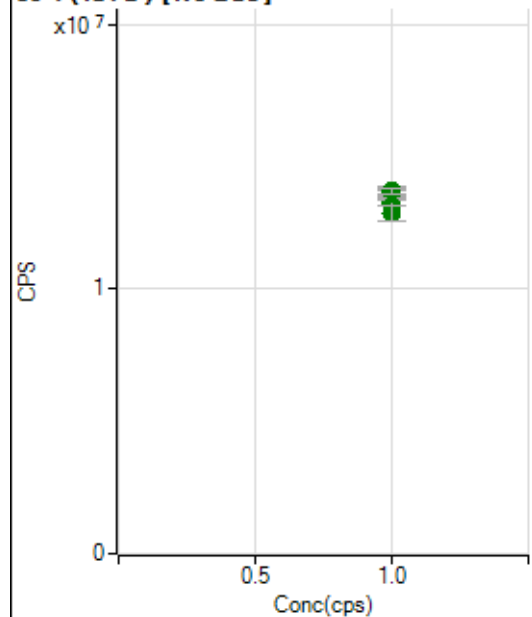
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		4839891.85		A	2.6
2	☐	1.000		4966641.00		A	1.8
3	☐	1.000		5010461.36		A	1.2
4	☐	1.000		5058531.91		A	2.6
5	☐	1.000		4957786.43		A	0.2
6	☐	1.000		4931570.59		A	2.4
7	☐	1.000		4892761.64		A	1.6
8	☐	1.000		4591165.28		A	2.3

45 Sc (ISTD) [No Gas]

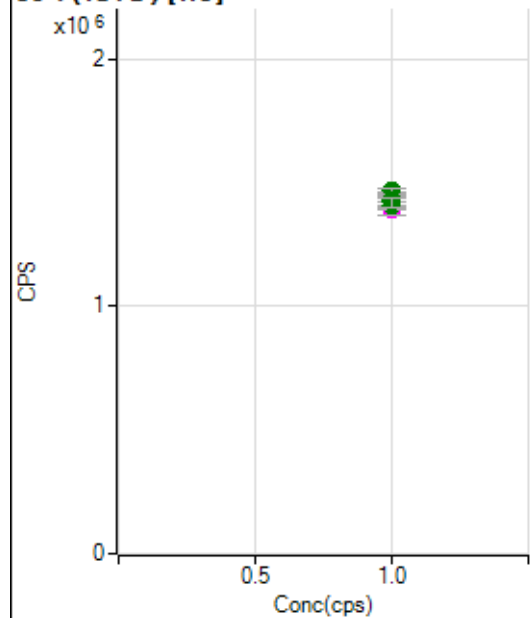
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5906821.51		A	2.6
2	☐	1.000		5932636.09		A	0.6
3	☐	1.000		5909595.68		A	2.5
4	☐	1.000		5947030.95		A	3.0
5	☐	1.000		5894919.98		A	2.0
6	☐	1.000		5920477.27		A	0.9
7	☐	1.000		5917740.47		A	1.8
8	☐	1.000		5712843.11		A	4.2

45 Sc (ISTD) [He]

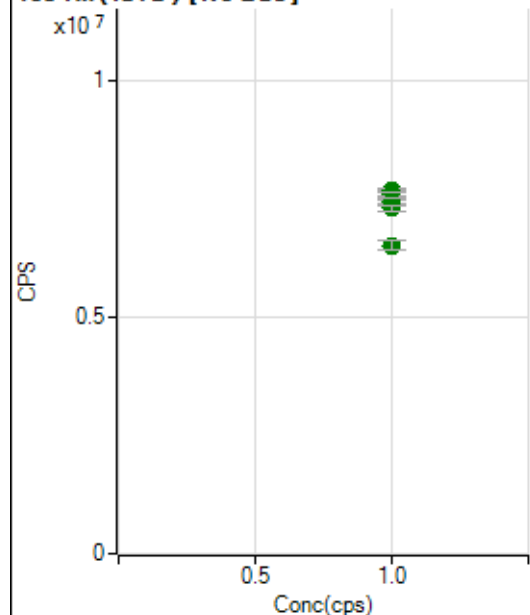
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		199331.14		P	0.9
2	☐	1.000		197267.53		P	1.2
3	☐	1.000		196557.43		P	0.4
4	☐	1.000		192464.48		P	1.2
5	☐	1.000		188825.03		P	2.0
6	☐	1.000		186878.21		P	1.2
7	☐	1.000		192057.83		P	1.1
8	☐	1.000		191992.98		P	1.1

89 Y (ISTD) [No Gas]

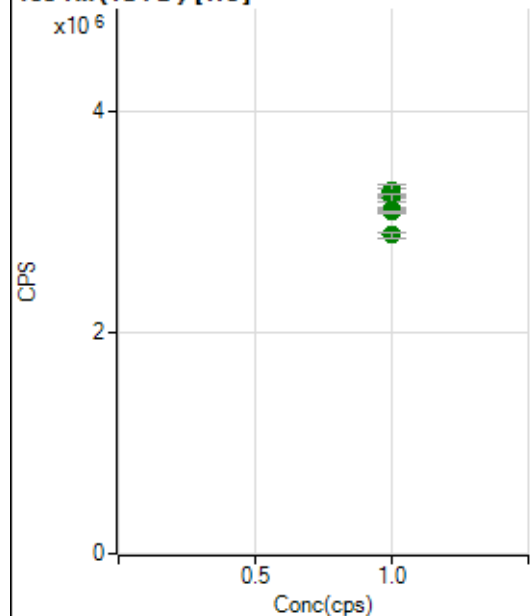
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		13256311.47		A	1.6
2	☐	1.000		13669181.05		A	2.5
3	☐	1.000		13239787.72		A	1.6
4	☐	1.000		13698313.96		A	2.9
5	☐	1.000		13274759.66		A	1.9
6	☐	1.000		13578963.55		A	2.0
7	☐	1.000		13707902.57		A	1.7
8	☐	1.000		12880913.70		A	4.7

89 Y (ISTD) [He]

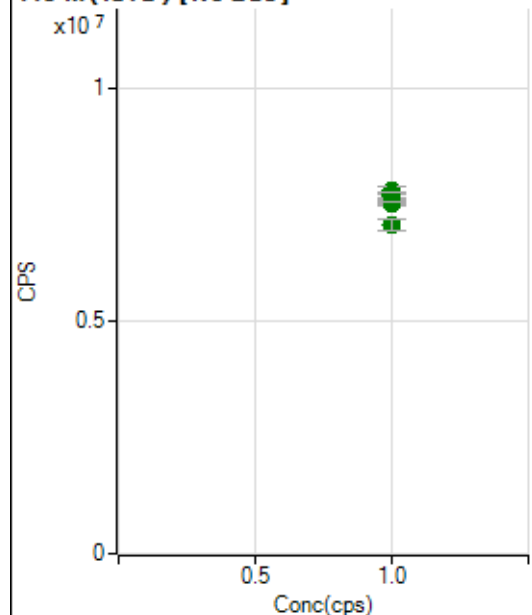
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1454225.01		A	0.9
2	☐	1.000		1442012.79		A	1.0
3	☐	1.000		1466474.70		A	1.9
4	☐	1.000		1429900.97		A	1.3
5	☐	1.000		1387699.68		M	2.7
6	☐	1.000		1407249.49		A	1.8
7	☐	1.000		1428905.71		A	1.1
8	☐	1.000		1420567.43		A	2.9

103 Rh (ISTD) [No Gas]

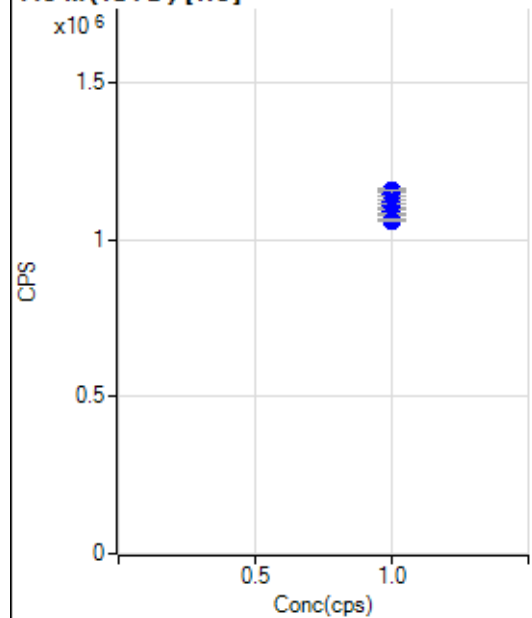
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7583019.87		A	2.8
2	☐	1.000		7675393.66		A	1.0
3	☐	1.000		7543351.21		A	0.4
4	☐	1.000		7605082.03		A	1.0
5	☐	1.000		7306503.73		A	1.5
6	☐	1.000		7455867.09		A	1.8
7	☐	1.000		7312015.01		A	1.6
8	☐	1.000		6520143.85		A	2.8

103 Rh (ISTD) [He]

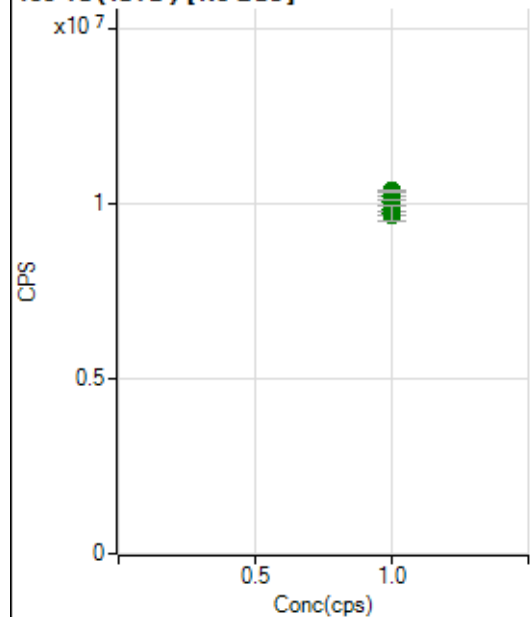
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3276997.66		A	1.7
2	☐	1.000		3265352.48		A	2.5
3	☐	1.000		3285509.84		A	3.2
4	☐	1.000		3226776.27		A	2.2
5	☐	1.000		3116333.60		A	1.0
6	☐	1.000		3125423.43		A	0.8
7	☐	1.000		3097354.71		A	0.5
8	☐	1.000		2886119.21		A	1.9

115 In (ISTD) [No Gas]

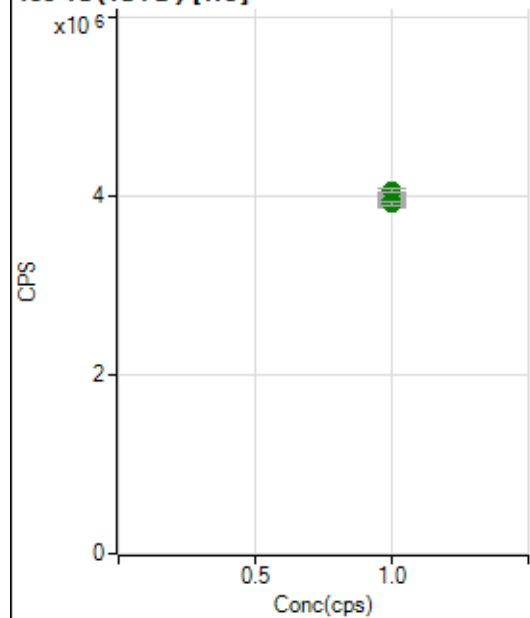
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7701740.50		A	1.4
2	☐	1.000		7556847.84		A	0.4
3	☐	1.000		7668433.71		A	1.3
4	☐	1.000		7805246.20		A	2.2
5	☐	1.000		7522579.55		A	0.7
6	☐	1.000		7721640.32		A	1.3
7	☐	1.000		7569058.51		A	0.4
8	☐	1.000		7082618.57		A	3.8

115 In (ISTD) [He]

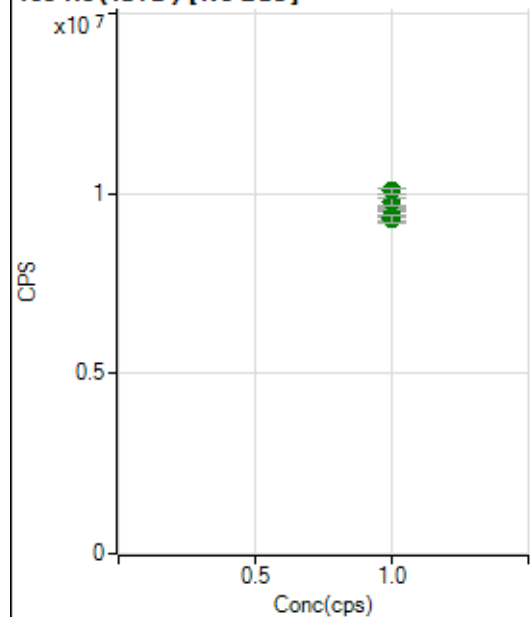
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1155052.36		P	1.1
2	☐	1.000		1145098.27		P	0.8
3	☐	1.000		1147187.95		P	1.2
4	☐	1.000		1120254.34		P	1.2
5	☐	1.000		1107059.24		P	1.0
6	☐	1.000		1089263.71		P	1.2
7	☐	1.000		1080156.37		P	0.7
8	☐	1.000		1061779.27		P	0.1

159 Tb (ISTD) [No Gas]

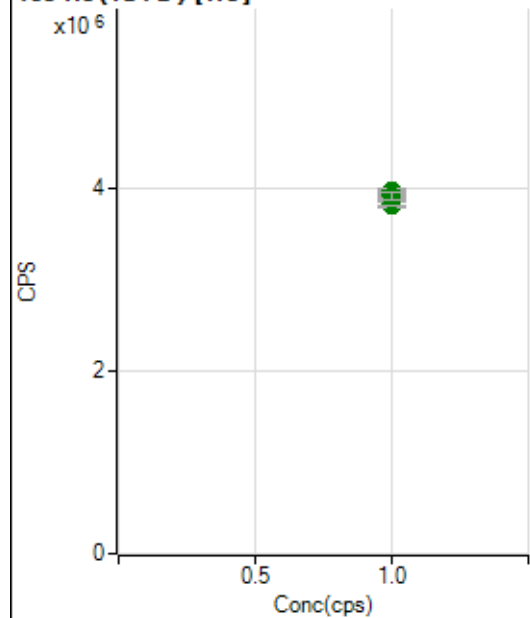
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9846177.14		A	1.7
2	☐	1.000		9724871.10		A	1.5
3	☐	1.000		9670866.52		A	0.4
4	☐	1.000		10067000.47		A	2.7
5	☐	1.000		10077940.48		A	3.0
6	☐	1.000		10211135.33		A	2.5
7	☐	1.000		10366584.98		A	0.6
8	☐	1.000		9730709.64		A	4.8

159 Tb (ISTD) [He]

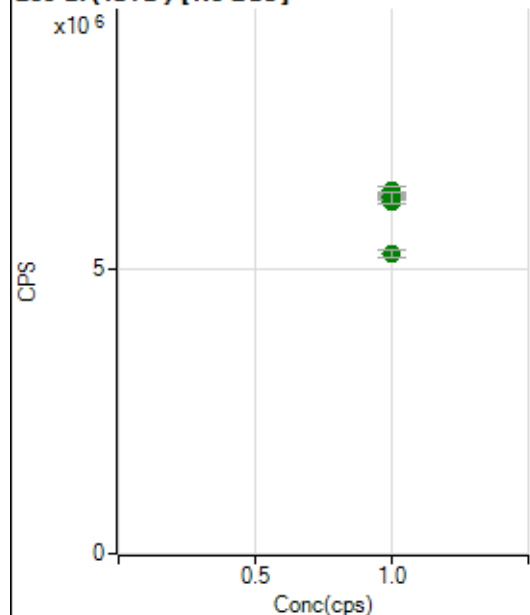
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3908756.95		A	1.1
2	☐	1.000		3913708.41		A	2.0
3	☐	1.000		4001344.14		A	1.3
4	☐	1.000		3944098.41		A	1.8
5	☐	1.000		3958946.64		A	1.4
6	☐	1.000		3955455.15		A	2.1
7	☐	1.000		4052348.83		A	1.0
8	☐	1.000		3909809.35		A	0.8

165 Ho (ISTD) [No Gas]

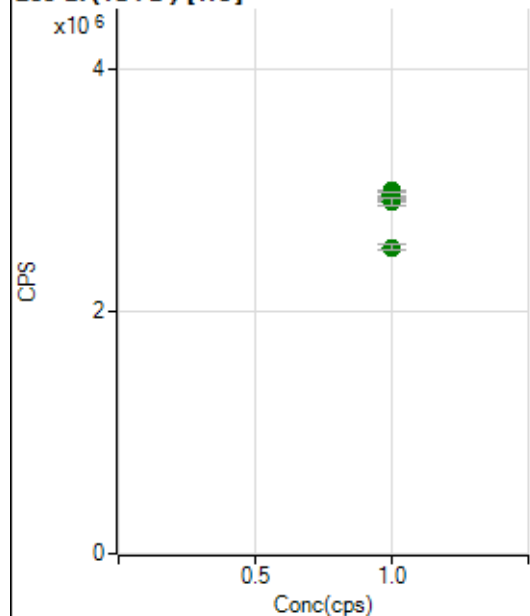
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9375931.72		A	3.1
2	☐	1.000		9382738.93		A	1.0
3	☐	1.000		9338291.01		A	2.0
4	☐	1.000		9571334.59		A	0.7
5	☐	1.000		9389835.37		A	3.6
6	☐	1.000		9775165.93		A	1.8
7	☐	1.000		10083111.07		A	1.8
8	☐	1.000		9286716.61		A	2.5

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3827083.35		A	1.4
2	☐	1.000		3796488.21		A	0.4
3	☐	1.000		3885041.05		A	0.6
4	☐	1.000		3901425.39		A	2.0
5	☐	1.000		3866070.78		A	3.1
6	☐	1.000		3939150.60		A	1.9
7	☐	1.000		3965127.86		A	1.0
8	☐	1.000		3912613.03		A	1.8

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6244489.91		A	0.2
2	☐	1.000		6178872.27		A	0.7
3	☐	1.000		6237121.78		A	3.1
4	☐	1.000		6374989.35		A	2.4
5	☐	1.000		6280484.70		A	0.8
6	☐	1.000		6184331.65		A	1.3
7	☐	1.000		6253454.56		A	3.0
8	☐	1.000		5265454.89		A	2.3

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2981472.25		A	0.6
2	☐	1.000		2959658.26		A	2.8
3	☐	1.000		2990559.12		A	0.5
4	☐	1.000		2959993.36		A	0.9
5	☐	1.000		2933803.46		A	1.4
6	☐	1.000		2942831.27		A	2.3
7	☐	1.000		2897298.05		A	2.2
8	☐	1.000		2525350.67		A	1.6

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP8011023MS.b
Acq. Date-Time 2023-01-10 09:53:55
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		14934	149336.41			1.218	5.000
24		97786	977864.52			0.714	5.000
25		13007	130067.88			1.171	5.000
26		15397	153968.99			1.360	5.000
59		71736	717356.76			2.497	5.000
113		7252	72524.77			1.133	5.000
115		95197	951968.87			1.622	5.000
206		20960	209598.72			1.784	5.000
207		18935	189352.26			1.428	5.000
208		45406	454058.58			1.740	5.000
220		0	4.30			10.400	

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

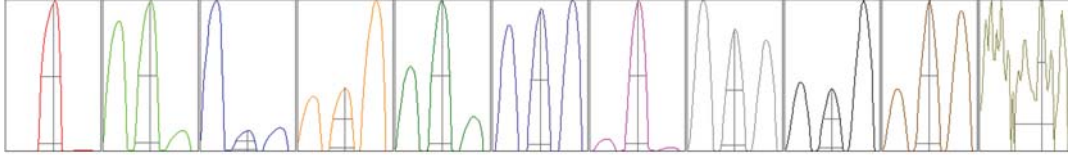
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	14668	15028	14964	14859	15149
24	96681	97644	98083	97975	98549
25	12768	13165	12988	13002	13110
26	15136	15482	15522	15219	15626
59	69485	72445	71026	71406	74316
113	7127	7234	7318	7250	7333
115	94666	94073	94698	94625	97921
206	20319	21119	21286	21086	20991
207	18500	18859	19021	19140	19155
208	44513	44709	45573	45823	46411

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	1

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	26078.33	9.05	8.90 - 9.10	
24	174919.14	24.00	23.90 - 24.10	
25	23279.70	25.00	24.90 - 25.10	
26	26874.67	26.00	25.90 - 26.10	
59	133594.13	59.00	58.90 - 59.10	
113	14441.83	113.05	112.90 - 113.10	
115	191300.59	115.05	114.90 - 115.10	
206	41248.90	206.00	205.90 - 206.10	
207	37477.85	207.00	206.90 - 207.10	
208	89971.50	208.00	207.90 - 208.10	
220	0.75	220.50	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.60	0.739	0.900	
24	0.59	0.776	0.900	
25	0.58	0.779	0.900	
26	0.61	0.784	0.900	
59	0.56	0.735	0.900	
113	0.52	0.728	0.900	
115	0.52	0.724	0.900	
206	0.53	0.770	0.900	
207	0.53	0.772	0.900	
208	0.53	0.781	0.900	
220	0.25	1.209		

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	1.40 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	11.5 V	Deflect	15.4 V
Extract 2	-215.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-110 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	190 V		

QP Parameters

Mass Gain	123	Axis Gain	0.9993	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	0.9 mm	Torch V	-0.7 mm
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EM

Discriminator	4.5 mV	Analog HV	2304 V	Pulse HV	1633 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		15072	150724.33			0.978	
89		16656	166561.08			1.305	
205		12744	127444.49			1.580	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	15286	15005	14939	14969	15163
89	17039	16607	16555	16501	16578
205	13069	12723	12513	12723	12694

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	1.40 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	11.5 V	Deflect	4.6 V
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US EPA Tune Check Report

Extract 2	-215.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-110 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	123	Axis Gain	0.9993	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	0.9 mm	Torch V	-0.7 mm
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EM

Discriminator	4.5 mV	Analog HV	2304 V	Pulse HV	1633 V
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