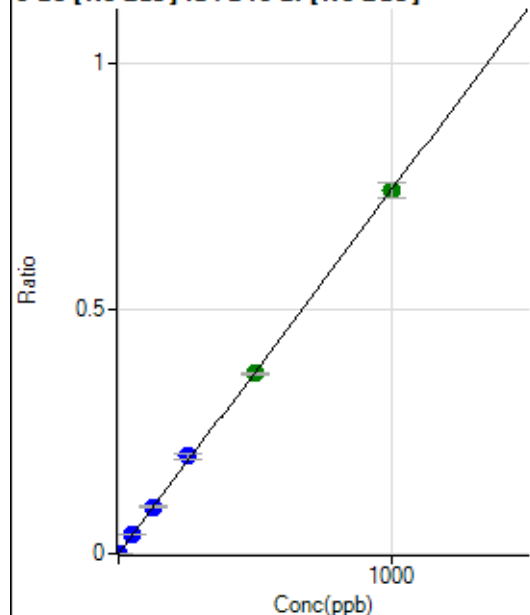


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8102221MS.b\
Analysis File: P8102221MS.batch.bin
DA Date-Time: 2021-10-23 00:44:24
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2021-10-22 11:44:37
2	005CALS.d	S02	2021-10-22 11:50:46
3	007CALS.d	S03	2021-10-22 11:56:55
4	008CALS.d	S04	2021-10-22 12:00:01
5	009CALS.d	S05	2021-10-22 12:03:04
6	010CALS.d	S06	2021-10-22 12:06:10
7	012CALS.d	S07	2021-10-22 12:12:19
8	013CALS.d	S08	2021-10-22 12:15:23

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	135.31	0.0000	P	59.4
2	☐	1.000	0.998	3215.73	0.0008	P	2.0
3	☐	50.000	51.502	157790.90	0.0383	P	3.2
4	☐	125.000	128.802	415261.06	0.0957	P	3.9
5	☐	250.000	268.465	837784.18	0.1995	P	5.4
6	☐	500.000	494.509	1644687.95	0.3675	A	1.1
7	☐	1000.000	997.579	3158412.13	0.7413	A	4.1
8	☐			716.55	0.0002	P	10.6

$$y = 7.4302\text{E-}004 * x + 3.3114\text{E-}005$$

$$R = 0.9998$$

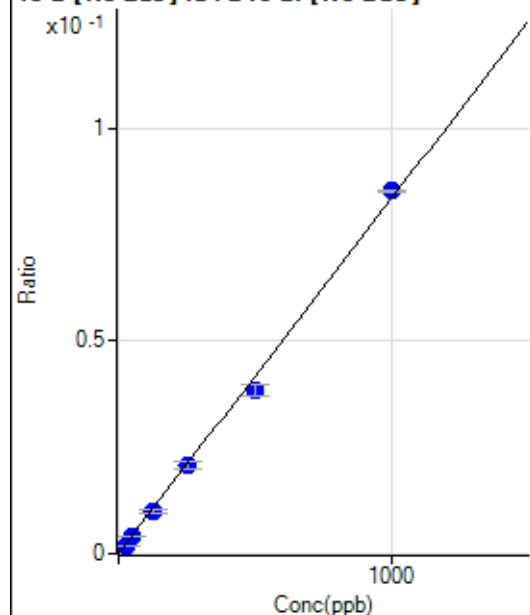
$$DL = 0.07945$$

$$BEC = 0.04457$$

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	460.58	0.0001	P	15.1
2	☐	25.000	22.051	8082.00	0.0019	P	5.8
3	☐	50.000	46.925	16576.82	0.0040	P	4.5
4	☐	125.000	116.361	42464.36	0.0098	P	9.0
5	☐	250.000	248.163	87170.50	0.0208	P	7.8
6	☐	500.000	459.947	171756.33	0.0384	P	7.9
7	☐	1000.000	1021.793	363283.40	0.0852	P	0.8
8	☐			39461.74	0.0096	P	8.1

$$y = 8.3257\text{E-}005 * x + 1.1158\text{E-}004$$

$$R = 0.9988$$

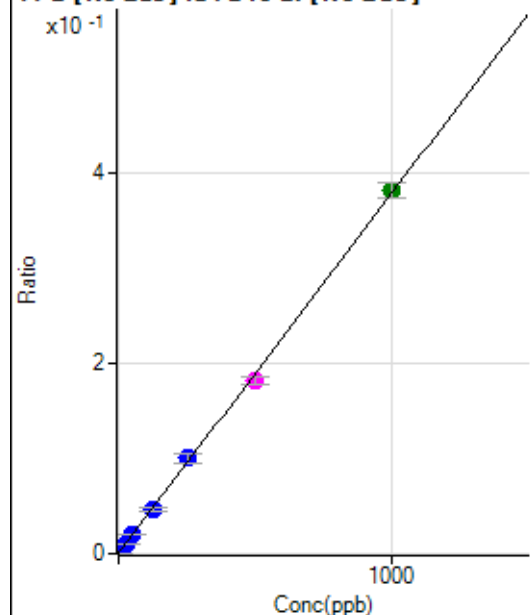
$$DL = 0.6087$$

$$BEC = 1.34$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	2118.41	0.0005	P	6.8
2	☐	25.000	23.728	39284.14	0.0095	P	6.0
3	☐	50.000	50.632	80919.32	0.0196	P	3.7
4	☐	125.000	122.792	203085.05	0.0469	P	7.8
5	☐	250.000	263.346	419147.31	0.0999	P	8.6
6	☐	500.000	479.007	811390.92	0.1813	M	4.8
7	☐	1000.000	1007.436	1622581.44	0.3807	A	4.4
8	☐			188450.16	0.0460	P	8.6

$$y = 3.7743\text{E-}004 * x + 5.1226\text{E-}004$$

$$R = 0.9996$$

$$DL = 0.2788$$

$$BEC = 1.357$$

Weight: <None>

Min Conc: 0

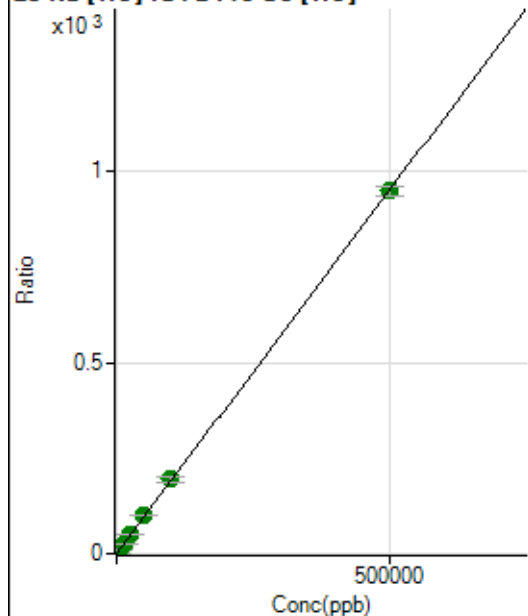
12 C [No Gas] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6125982.12		A	1.8
2	☐			6201286.60		A	1.5
3	☐			6467358.96		A	3.1
4	☐			6267006.13		A	1.4
5	☐			6479226.71		A	2.7
6	☐			6707987.22		A	3.3
7	☐			7797470.66		A	1.2
8	☐			6946633.10		A	2.9

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			63364.99		P	1.1
2	☐			62991.23		P	1.3
3	☐			65683.40		P	0.6
4	☐			64790.96		P	0.8
5	☐			67386.21		P	1.0
6	☐			72272.89		P	2.2
7	☐			84914.85		P	0.9
8	☐			83834.12		P	1.8

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	28518.93	0.1005	P	4.7
2	☐	500.000	535.719	313347.03	1.1183	P	4.1
3	☐	5000.000	5268.979	2967092.53	10.1110	A	2.7
4	☐	12500.000	13092.885	7382720.40	24.9755	A	1.3
5	☐	25000.000	26690.306	14552623.55	50.8089	A	2.1
6	☐	50000.000	52605.513	28507911.30	100.0448	A	2.4
7	☐	100000.00	102848.29	57737152.36	195.5001	A	7.3
8	☐	500000.00	499067.72	276845934.5	948.2700	A	2.5

$$y = 0.0019 * x + 0.1005$$

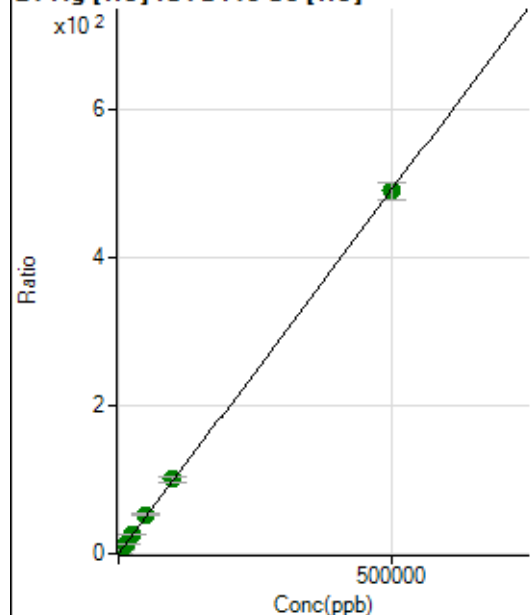
$$R = 1.0000$$

$$DL = 7.46$$

$$BEC = 52.92$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	825.05	0.0029	P	14.2
2	☐	500.000	527.754	145712.61	0.5203	P	5.6
3	☐	5000.000	5428.690	1562563.08	5.3249	A	2.0
4	☐	12500.000	13414.413	3888426.47	13.1536	A	1.1
5	☐	25000.000	26813.083	7529566.66	26.2888	A	2.2
6	☐	50000.000	53817.709	15037507.28	52.7625	A	1.6
7	☐	100000.00	102835.06	29770557.96	100.8161	A	7.7
8	☐	500000.00	498933.38	142709390.6	489.1264	A	5.1

$$y = 9.8034\text{E-}004 * x + 0.0029$$

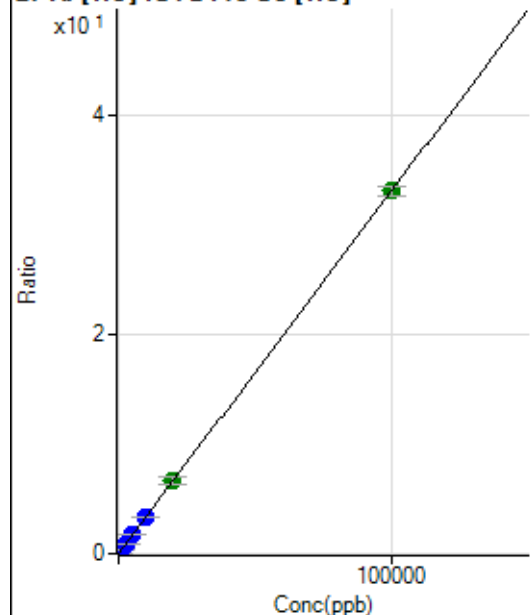
$$R = 1.0000$$

$$DL = 1.269$$

$$BEC = 2.973$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	160.81	0.0006	P	12.8
2	☐	20.000	21.793	2176.57	0.0078	P	4.4
3	☐	1000.000	1004.145	97525.34	0.3323	P	1.0
4	☐	2500.000	2503.623	244698.67	0.8277	P	0.3
5	☐	5000.000	5100.599	482841.13	1.6858	P	1.8
6	☐	10000.000	9911.107	933637.57	3.2751	P	0.6
7	☐	20000.000	19989.172	1948680.06	6.6048	A	9.5
8	☐	100000.00	100005.89	9645415.07	33.0417	A	2.9

$$y = 3.3039\text{E-}004 * x + 5.6806\text{E-}004$$

$$R = 1.0000$$

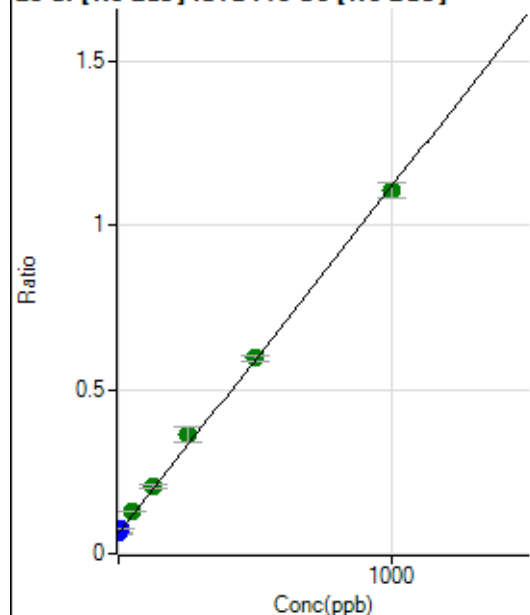
$$DL = 0.6618$$

$$BEC = 1.719$$

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	601653.42	0.0620	P	1.9
2	☐	10.000	13.643	720246.80	0.0764	P	1.4
3	☐	50.000	63.367	1215354.91	0.1289	A	1.0
4	☐	125.000	133.862	1968891.04	0.2032	A	6.4
5	☐	250.000	284.762	3230296.77	0.3625	A	13.1
6	☐	500.000	504.355	5700848.08	0.5942	A	3.7
7	☐	1000.000	987.320	10094801.01	1.1038	A	4.2
8	☐			1448843.10	0.1580	A	4.8

$$y = 0.0011 * x + 0.0620$$

$$R = 0.9993$$

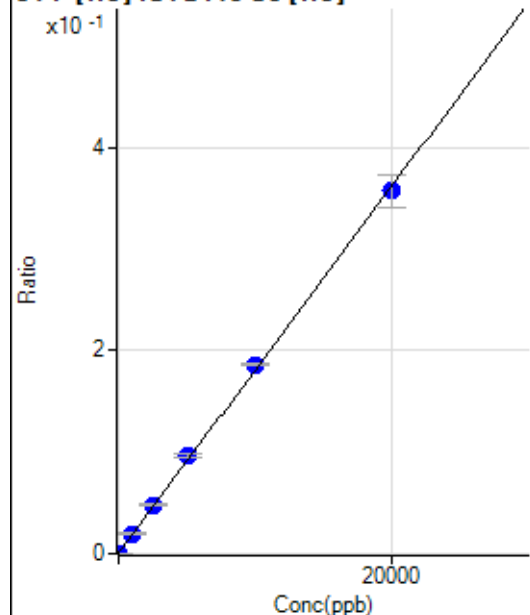
$$DL = 3.268$$

$$BEC = 58.75$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	-2.805	80.56	0.0003	P	70.2
2	☐	0.000	2.805	108.34	0.0004	P	31.2
3	☐	1000.000	1071.374	5781.88	0.0197	P	5.7
4	☐	2500.000	2613.929	14059.97	0.0476	P	3.6
5	☐	5000.000	5307.694	27568.52	0.0963	P	3.4
6	☐	10000.000	10283.531	53086.99	0.1862	P	1.1
7	☐	20000.000	19763.501	105478.15	0.3575	P	9.1
8	☐			172.23	0.0006	P	23.3

$$y = 1.8072E-005 * x + 3.3839E-004$$

$$R = 0.9997$$

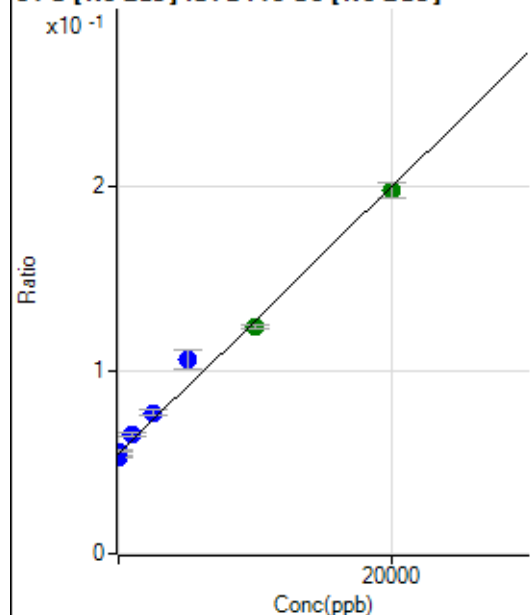
$$DL = 26.85$$

$$BEC = 18.73$$

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	-198.262	512711.24	0.0528	P	3.0
2	☐	0.000	198.262	525453.06	0.0557	P	1.6
3	☐	1000.000	1456.153	611746.12	0.0649	P	3.3
4	☐	2500.000	3100.573	745564.44	0.0769	P	3.4
5	☐	5000.000	7028.277	942975.99	0.1056	P	9.6
6	☐	10000.000	9470.108	1183394.06	0.1234	A	1.7
7	☐	20000.000	19659.997	1808264.67	0.1977	A	4.4
8	☐			426061.96	0.0464	P	2.6

$$y = 7.2960E-006 * x + 0.0543$$

R = 0.9933

DL = 510.9

BEC = 7441

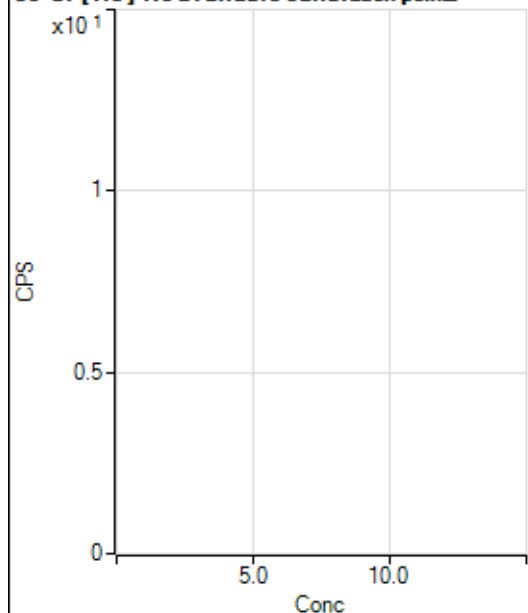
Weight: <None>

Min Conc: 0

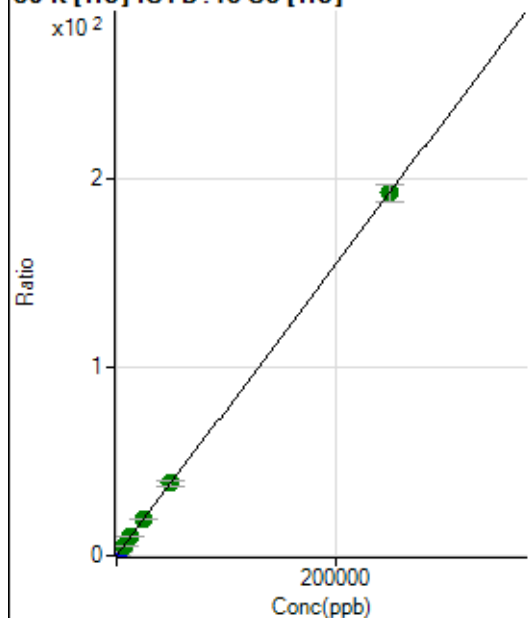
35 Cl [No Gas] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1004160.58		P	1.6
2	☐			875978.22		P	1.6
3	☐			853284.28		P	0.9
4	☐			781637.18		P	0.9
5	☐			782577.65		P	1.7
6	☐			766881.93		P	1.3
7	☐			813057.21		P	0.8
8	☐			822102.92		P	0.8

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6218.19		P	4.8
2	☐			5423.40		P	4.5
3	☐			5134.37		P	6.8
4	☐			4687.00		P	2.7
5	☐			4428.58		P	9.2
6	☐			4481.36		P	4.5
7	☐			4834.27		P	2.6
8	☐			5348.37		P	5.4

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	21638.84	0.0763	P	6.0
2	☐	500.000	517.679	133124.68	0.4752	P	4.8
3	☐	2500.000	2595.320	609211.93	2.0760	P	0.7
4	☐	6250.000	6482.845	1499140.94	5.0714	A	0.6
5	☐	12500.000	12898.473	2868221.55	10.0146	A	3.4
6	☐	25000.000	25014.474	5516593.70	19.3501	A	1.0
7	☐	50000.000	49743.601	11339239.58	38.4040	A	7.7
8	☐	250000.00	250023.09	56232260.98	192.7202	A	4.6

$$y = 7.7050\text{E-}004 * x + 0.0763$$

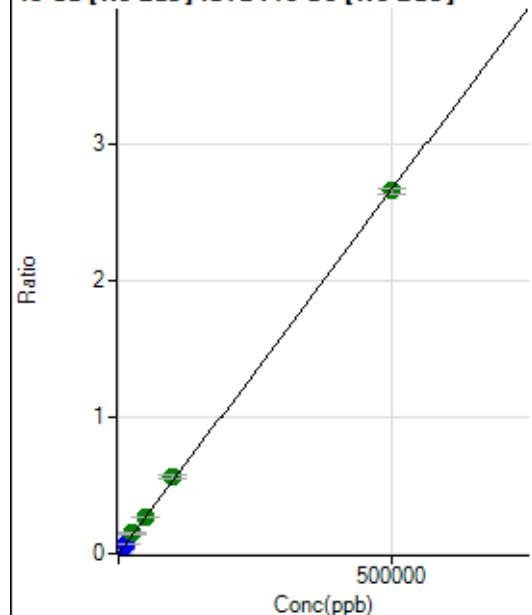
$$R = 1.0000$$

$$DL = 17.78$$

$$BEC = 99.04$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	571.61	0.0001	P	12.3
2	☐	500.000	471.622	24217.73	0.0026	P	1.2
3	☐	5000.000	5037.134	253187.71	0.0269	P	2.7
4	☐	12500.000	12707.940	655841.47	0.0677	P	4.8
5	☐	25000.000	27822.390	1322955.09	0.1481	A	9.6
6	☐	50000.000	50776.810	2592083.96	0.2702	A	2.0
7	☐	100000.00	105974.12	5157347.42	0.5640	A	4.7
8	☐	500000.00	498580.83	24341273.42	2.6530	A	1.8

$$y = 5.3211\text{E-}006 * x + 5.8934\text{E-}005$$

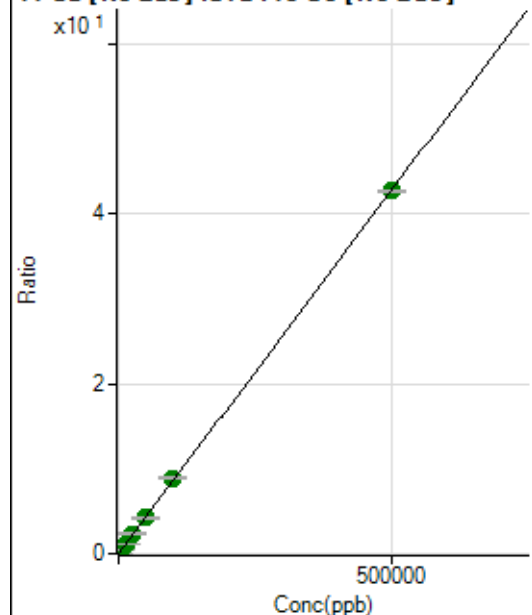
$$R = 0.9999$$

$$DL = 4.096$$

$$BEC = 11.08$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	37321.97	0.0038	P	6.1
2	☐	500.000	476.065	419835.22	0.0445	P	0.7
3	☐	5000.000	5016.407	4075351.24	0.4325	A	4.0
4	☐	12500.000	12765.906	10604430.82	1.0946	A	6.0
5	☐	25000.000	27198.637	20773279.62	2.3279	A	11.1
6	☐	50000.000	49028.525	40224751.14	4.1932	A	0.5
7	☐	100000.00	103843.31	81194864.94	8.8769	A	3.7
8	☐	500000.00	499211.76	391440920.5	42.6597	A	0.3

$$y = 8.5446\text{E-}005 * x + 0.0038$$

$$R = 1.0000$$

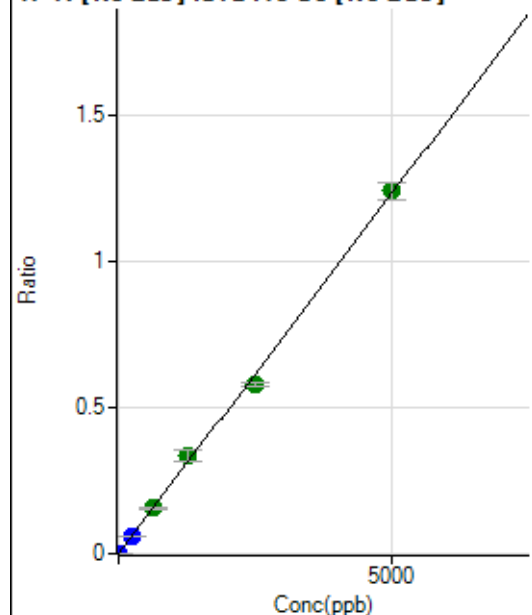
$$DL = 8.296$$

$$BEC = 45.03$$

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	319.46	0.0000	P	13.8
2	☐	5.000	4.945	11796.85	0.0013	P	3.3
3	☐	250.000	248.943	578359.26	0.0614	P	3.1
4	☐	625.000	634.334	1514985.84	0.1563	A	4.6
5	☐	1250.000	1356.042	2981202.35	0.3341	A	11.3
6	☐	2500.000	2360.799	5579464.31	0.5817	A	2.2
7	☐	5000.000	5041.976	11359376.47	1.2422	A	4.6
8	☐			3139.31	0.0003	P	3.8

$$y = 2.4637E-004 * x + 3.2940E-005$$

$$R = 0.9992$$

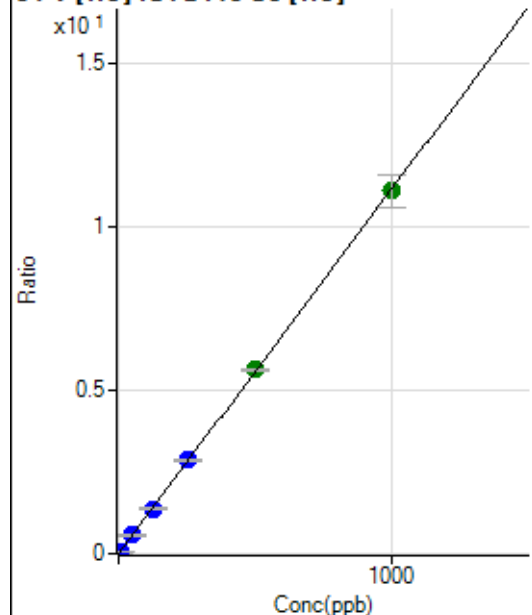
$$DL = 0.0555$$

$$BEC = 0.1337$$

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	17.78	0.0001	P	6.1
2	☐	5.000	5.339	16663.17	0.0595	P	6.2
3	☐	50.000	50.237	164148.85	0.5594	P	1.8
4	☐	125.000	123.957	407975.72	1.3802	P	1.0
5	☐	250.000	256.354	817545.32	2.8542	P	1.0
6	☐	500.000	505.810	1605186.95	5.6316	A	1.0
7	☐	1000.000	995.623	3271235.02	11.0850	A	8.7
8	☐			805.59	0.0028	P	4.4

$$y = 0.0111 * x + 6.2481E-005$$

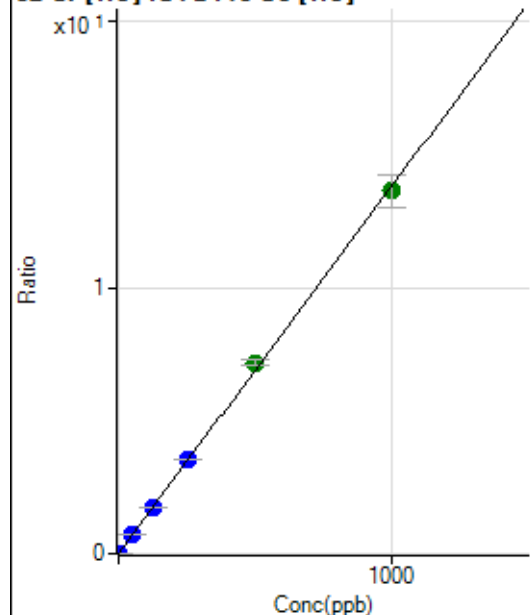
$$R = 0.9999$$

$$DL = 0.001035$$

$$BEC = 0.005612$$

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	1032.27	0.0036	P	4.8
2	☐	2.000	2.104	9148.56	0.0327	P	4.8
3	☐	50.000	51.091	207880.00	0.7084	P	0.9
4	☐	125.000	124.479	508681.84	1.7207	P	0.4
5	☐	250.000	256.916	1016126.32	3.5476	P	1.4
6	☐	500.000	520.007	2044921.10	7.1767	A	3.2
7	☐	1000.000	988.278	4023601.19	13.6361	A	9.2
8	☐			14105.95	0.0483	P	3.1

$$y = 0.0138 * x + 0.0036$$

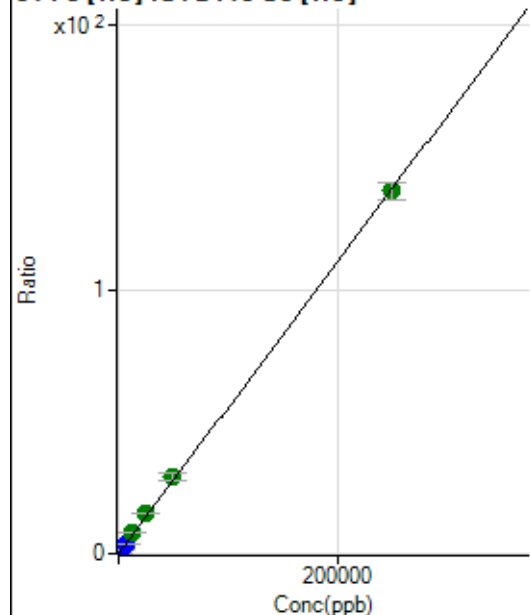
$$R = 0.9997$$

$$DL = 0.0378$$

$$BEC = 0.2637$$

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	818.56	0.0029	P	13.0
2	☐	50.000	56.866	9577.42	0.0342	P	6.1
3	☐	2500.000	2775.121	449487.92	1.5317	P	2.2
4	☐	6250.000	6820.730	1111485.87	3.7605	P	2.0
5	☐	12500.000	14331.492	2262143.17	7.8982	A	2.7
6	☐	25000.000	27666.634	4344899.64	15.2447	A	2.4
7	☐	50000.000	52564.814	8541835.49	28.9614	A	9.8
8	☐	250000.00	249111.77	40045803.67	137.2412	A	4.6

$$y = 5.5091E-004 * x + 0.0029$$

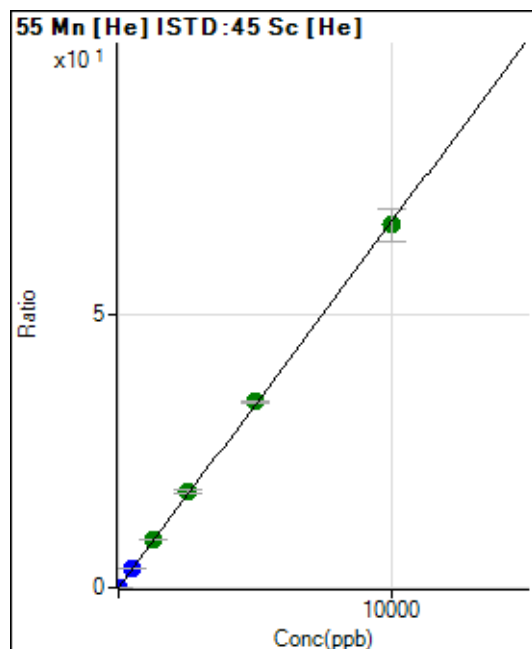
$$R = 0.9999$$

$$DL = 2.029$$

$$BEC = 5.22$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	250.01	0.0009	P	16.9
2	☐	1.000	1.101	2307.98	0.0082	P	5.6
3	☐	500.000	514.717	1009879.75	3.4412	P	1.2
4	☐	1250.000	1304.739	2577899.28	8.7217	A	1.9
5	☐	2500.000	2639.562	5052938.12	17.6436	A	4.4
6	☐	5000.000	5079.695	9677382.43	33.9534	A	1.4
7	☐	10000.000	9917.684	19562328.88	66.2904	A	8.8
8	☐			31421.28	0.1077	P	5.0

$$y = 0.0067 * x + 8.8456E-004$$

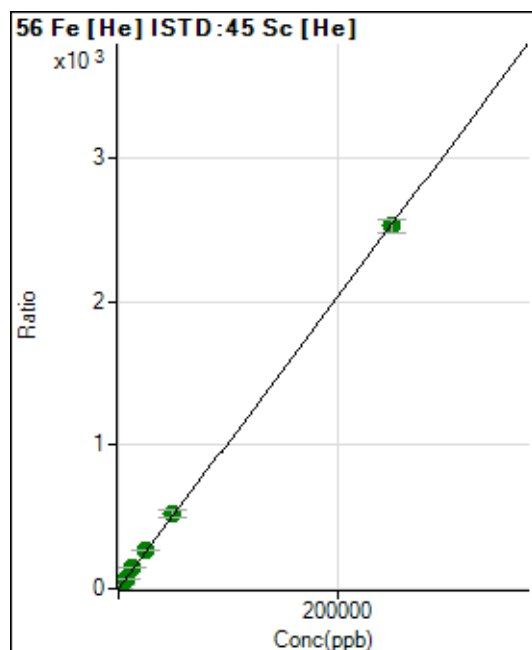
$$R = 0.9998$$

$$DL = 0.06723$$

$$BEC = 0.1323$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	7559.52	0.0267	P	6.7
2	☐	50.000	56.124	167119.83	0.5966	P	5.0
3	☐	2500.000	2728.933	8140228.54	27.7400	A	2.3
4	☐	6250.000	6801.290	20425326.85	69.0963	A	1.2
5	☐	12500.000	14085.875	40977473.14	143.0740	A	3.0
6	☐	25000.000	26642.878	77132725.80	270.5950	A	0.8
7	☐	50000.000	51989.566	155753488.6	528.0000	A	9.5
8	☐	250000.00	249342.43	738987105.4	2532.191	A	3.9

$$y = 0.0102 * x + 0.0267$$

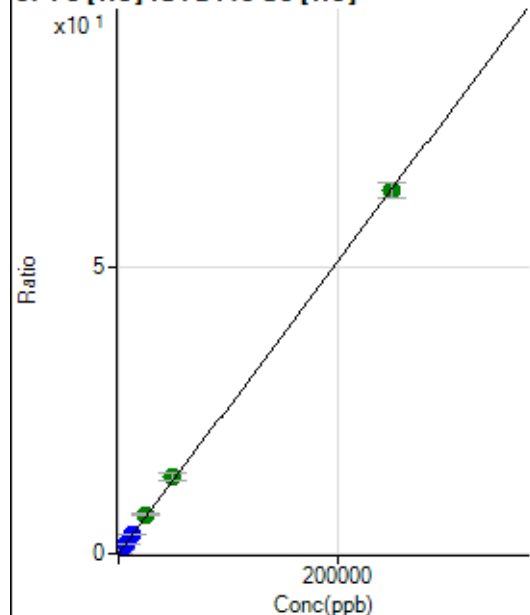
$$R = 0.9999$$

$$DL = 0.5245$$

$$BEC = 2.625$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	237.05	0.0008	P	2.3
2	☐	50.000	57.198	4304.44	0.0153	P	3.0
3	☐	2500.000	2696.350	201032.01	0.6851	P	1.4
4	☐	6250.000	6615.764	496514.82	1.6797	P	0.9
5	☐	12500.000	13585.597	987714.74	3.4484	P	1.5
6	☐	25000.000	27021.045	1955229.24	6.8578	A	0.7
7	☐	50000.000	53121.460	3976287.07	13.4811	A	9.8
8	☐	250000.00	249108.21	18447279.35	63.2155	A	4.2

$$y = 2.5376E-004 * x + 8.3428E-004$$

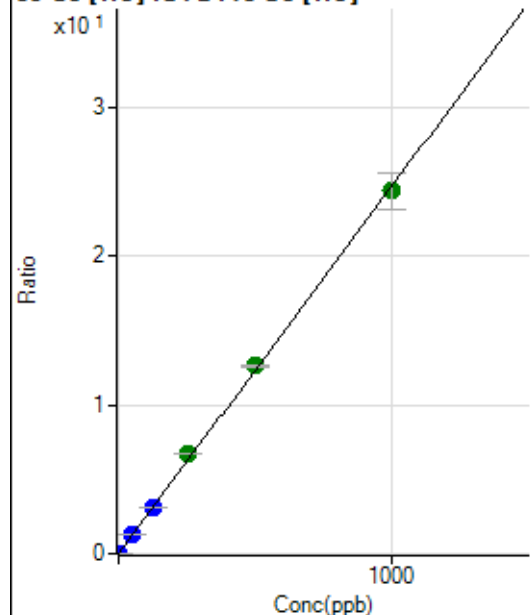
$$R = 0.9999$$

$$DL = 0.2231$$

$$BEC = 3.288$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	128.89	0.0005	P	15.9
2	☐	1.000	1.068	7510.94	0.0268	P	2.7
3	☐	50.000	52.270	378416.85	1.2895	P	0.8
4	☐	125.000	126.240	920436.57	3.1137	P	0.8
5	☐	250.000	271.443	1917651.85	6.6947	A	1.0
6	☐	500.000	511.503	3596323.03	12.6149	A	1.0
7	☐	1000.000	988.619	7190311.56	24.3813	A	10.0
8	☐			16461.83	0.0564	P	2.7

$$y = 0.0247 * x + 4.5518E-004$$

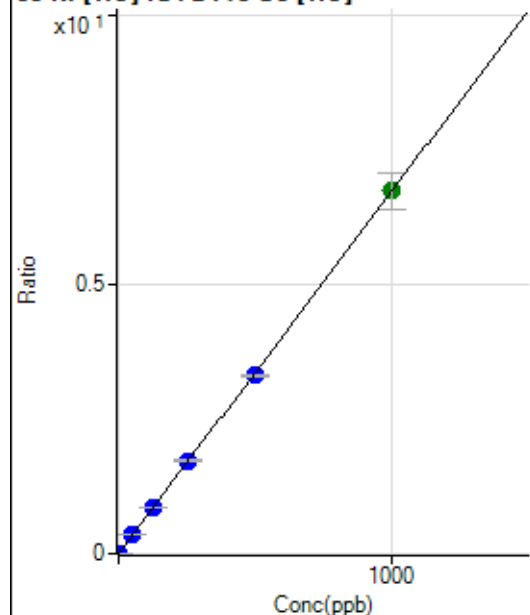
$$R = 0.9996$$

$$DL = 0.008785$$

$$BEC = 0.01846$$

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	336.67	0.0012	P	7.4
2	☐	1.000	1.130	2460.24	0.0088	P	6.8
3	☐	50.000	51.598	102261.22	0.3485	P	1.0
4	☐	125.000	127.866	254755.05	0.8618	P	0.9
5	☐	250.000	257.184	496169.09	1.7322	P	0.9
6	☐	500.000	491.916	944030.14	3.3122	P	1.2
7	☐	1000.000	1001.808	1988892.58	6.7441	A	10.0
8	☐			6755.00	0.0231	P	2.7

$$y = 0.0067 * x + 0.0012$$

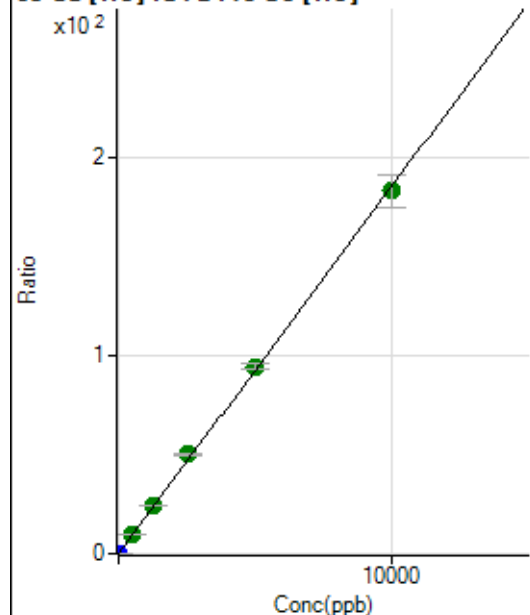
$$R = 0.9999$$

$$DL = 0.03901$$

$$BEC = 0.1758$$

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	1412.31	0.0050	P	7.7
2	☐	2.000	2.023	11907.31	0.0425	P	4.3
3	☐	500.000	541.979	2950366.28	10.0545	A	2.7
4	☐	1250.000	1306.789	7164058.30	24.2358	A	1.5
5	☐	2500.000	2718.020	14436766.04	50.4032	A	1.6
6	☐	5000.000	5101.043	26956236.26	94.5898	A	2.9
7	☐	10000.000	9885.776	54088086.97	183.3095	A	9.0
8	☐			15137.08	0.0519	P	7.4

$$y = 0.0185 * x + 0.0050$$

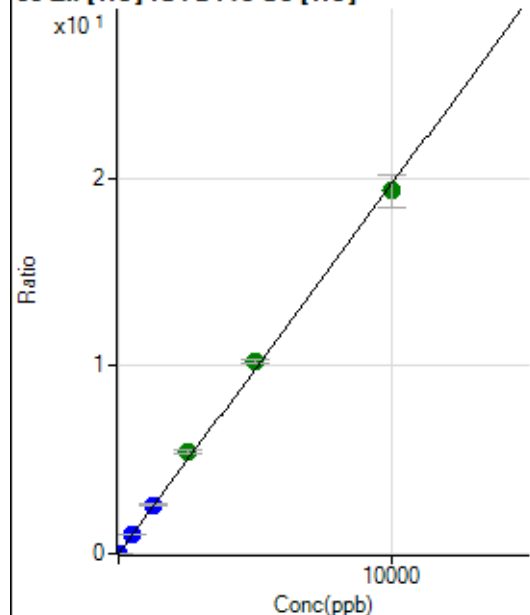
$$R = 0.9997$$

$$DL = 0.062$$

$$BEC = 0.2686$$

Weight: <None>

Min Conc: 0

⁶⁶Zn [He] ISTD: ⁴⁵Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	821.14	0.0029	P	7.2
2	☐	2.000	2.476	2174.64	0.0078	P	8.3
3	☐	500.000	531.190	307795.45	1.0489	P	0.7
4	☐	1250.000	1322.029	770370.35	2.6061	P	1.0
5	☐	2500.000	2759.208	1557074.49	5.4361	A	2.1
6	☐	5000.000	5203.045	2921171.93	10.2483	A	2.8
7	☐	10000.000	9823.113	5708373.66	19.3458	A	9.1
8	☐			11021.06	0.0378	P	6.0

$$y = 0.0020 * x + 0.0029$$

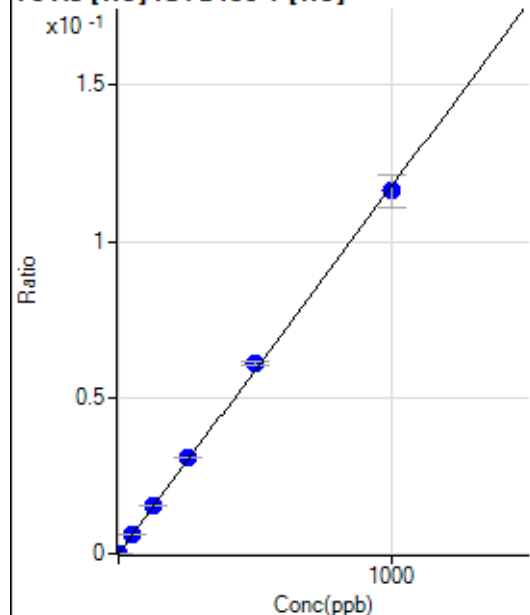
$$R = 0.9993$$

$$DL = 0.3172$$

$$BEC = 1.469$$

Weight: <None>

Min Conc: 0

⁷⁵As [He] ISTD: ⁸⁹Y [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	17.67	0.0000	P	27.1
2	☐	1.000	1.106	391.04	0.0001	P	9.6
3	☐	50.000	51.856	18704.21	0.0061	P	1.4
4	☐	125.000	129.941	47054.57	0.0153	P	0.7
5	☐	250.000	262.801	92927.58	0.0309	P	0.9
6	☐	500.000	516.039	178278.22	0.0607	P	2.0
7	☐	1000.000	988.070	352861.51	0.1162	P	8.9
8	☐			142.68	0.0000	P	11.8

$$y = 1.1756E-004 * x + 6.0400E-006$$

$$R = 0.9997$$

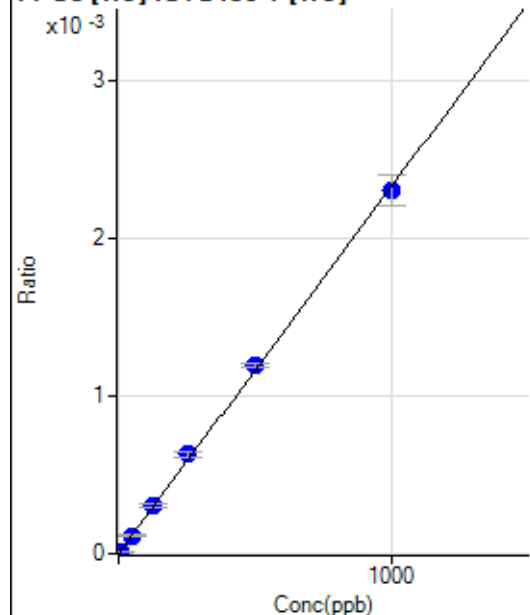
$$DL = 0.0417$$

$$BEC = 0.05138$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1.11	0.0000	P	173.2
2	☐	5.000	4.849	33.33	0.0000	P	37.0
3	☐	50.000	49.579	354.45	0.0001	P	11.2
4	☐	125.000	130.606	935.60	0.0003	P	9.2
5	☐	250.000	269.973	1887.93	0.0006	P	5.0
6	☐	500.000	512.655	3503.81	0.0012	P	1.5
7	☐	1000.000	988.000	6982.90	0.0023	P	8.6
8	☐			1.11	0.0000	P	173.2

$$y = 2.3250\text{E-}006 * x + 3.5878\text{E-}007$$

$$R = 0.9996$$

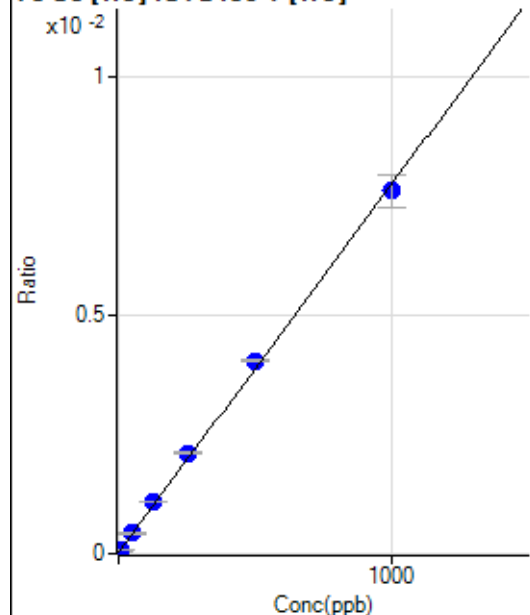
$$DL = 0.8018$$

$$BEC = 0.1543$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	72.34	0.0000	P	2.3
2	☐	5.000	5.296	188.69	0.0001	P	5.2
3	☐	50.000	51.908	1305.53	0.0004	P	2.5
4	☐	125.000	136.628	3329.07	0.0011	P	0.8
5	☐	250.000	269.690	6344.74	0.0021	P	2.3
6	☐	500.000	521.898	11931.25	0.0041	P	1.5
7	☐	1000.000	982.578	23152.28	0.0076	P	9.1
8	☐			83.01	0.0000	P	8.1

$$y = 7.7329\text{E-}006 * x + 2.4554\text{E-}005$$

$$R = 0.9994$$

$$DL = 0.219$$

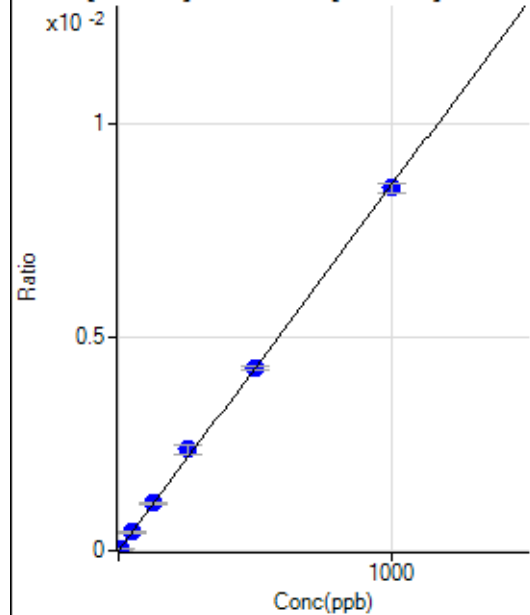
$$BEC = 3.175$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			29180.61		P	3.5
2	☐			29675.41		P	1.3
3	☐			29260.72		P	2.1
4	☐			28244.46		P	3.0
5	☐			28000.16		P	1.9
6	☐			28377.90		P	2.1
7	☐			28488.57		P	2.1
8	☐			29361.06		P	2.6

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	-10.45	0.0000	P	-117.
2	☐	5.000	5.173	1226.35	0.0000	P	2.9
3	☐	50.000	50.845	12589.93	0.0004	P	3.5
4	☐	125.000	130.166	32489.34	0.0011	P	4.6
5	☐	250.000	277.597	64054.47	0.0024	P	10.2
6	☐	500.000	500.406	123324.48	0.0043	P	1.5
7	☐	1000.000	992.209	236784.34	0.0085	P	2.7
8	☐			359.57	0.0000	P	8.0

$$y = 8.5740E-006 * x - 3.6249E-007$$

$$R = 0.9996$$

$$DL = 0.1487$$

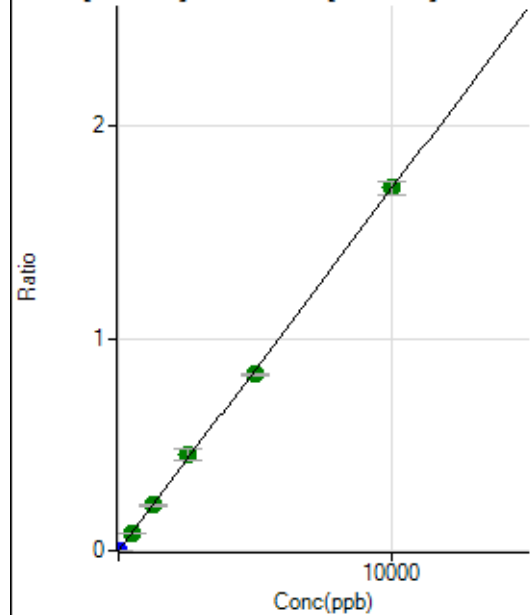
$$BEC = -0.04228$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			865.59		P	4.3
2	☐			894.48		P	3.9
3	☐			864.48		P	4.0
4	☐			898.93		P	5.2
5	☐			980.05		P	2.8
6	☐			830.03		P	9.4
7	☐			884.48		P	4.7
8	☐			945.60		P	0.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1808.63	0.0001	P	33.5
2	☐	1.000	1.100	6996.59	0.0003	P	9.6
3	☐	500.000	489.695	2416010.67	0.0836	A	3.4
4	☐	1250.000	1257.185	6245169.98	0.2145	A	5.2
5	☐	2500.000	2667.536	12241858.52	0.4550	A	11.0
6	☐	5000.000	4865.662	23858784.04	0.8300	A	1.5
7	☐	10000.000	10024.902	47588196.55	1.7099	A	3.5
8	☐			35261.83	0.0013	P	3.5

$$y = 1.7056E-004 * x + 6.3320E-005$$

$$R = 0.9997$$

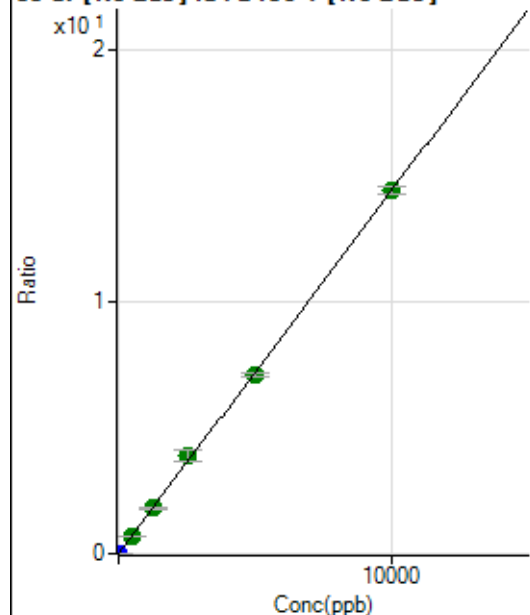
$$DL = 0.3736$$

$$BEC = 0.3712$$

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	4424.86	0.0002	P	130.9
2	☐	1.000	1.101	48654.05	0.0017	P	11.1
3	☐	500.000	489.693	20431737.26	0.7069	A	3.2
4	☐	1250.000	1252.780	52634167.50	1.8081	A	6.0
5	☐	2500.000	2709.991	105245091.9	3.9111	A	10.6
6	☐	5000.000	4905.332	203503044.8	7.0793	A	2.2
7	☐	10000.000	9995.004	401544742.3	14.4246	A	2.1
8	☐			283061.49	0.0102	P	3.3

$$y = 0.0014 * x + 1.5561E-004$$

$$R = 0.9997$$

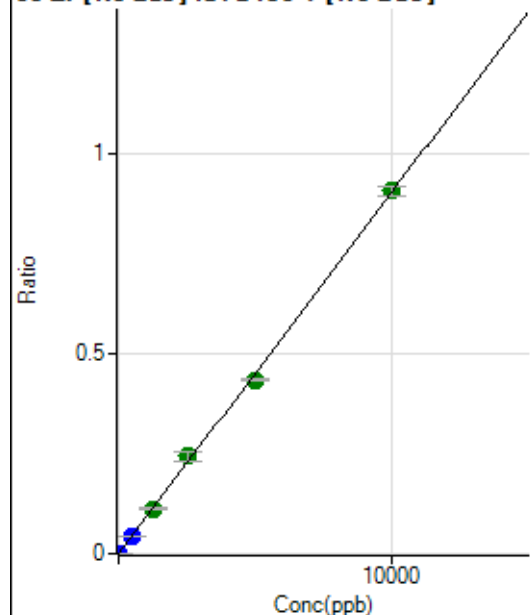
$$DL = 0.4233$$

$$BEC = 0.1078$$

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	1302.89	0.0000	P	19.3
2	☐	1.000	9.225	24474.89	0.0009	P	1.3
3	☐	500.000	478.484	1249587.34	0.0432	P	3.2
4	☐	1250.000	1230.252	3234654.32	0.1111	A	5.0
5	☐	2500.000	2691.441	6542108.30	0.2430	A	9.6
6	☐	5000.000	4810.401	12482735.26	0.4342	A	1.3
7	☐	10000.000	10050.483	25249916.71	0.9071	A	2.9
8	☐			13732.11	0.0005	P	3.1

$$y = 9.0255E-005 * x + 4.5579E-005$$

$$R = 0.9995$$

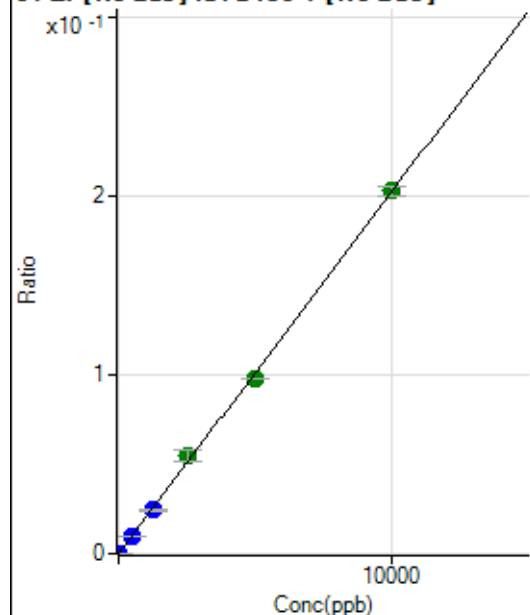
$$DL = 0.2918$$

$$BEC = 0.505$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	291.68	0.0000	P	24.8
2	☐	1.000	8.870	5278.94	0.0002	P	4.4
3	☐	500.000	469.578	274632.94	0.0095	P	3.5
4	☐	1250.000	1206.877	710537.88	0.0244	P	5.5
5	☐	2500.000	2711.055	1475165.81	0.0548	A	10.3
6	☐	5000.000	4841.493	2813673.87	0.0979	A	0.6
7	☐	10000.000	10033.400	5645551.60	0.2028	A	2.6
8	☐			2986.51	0.0001	P	3.8

$$y = 2.0213\text{E-}005 * x + 1.0205\text{E-}005$$

$$R = 0.9995$$

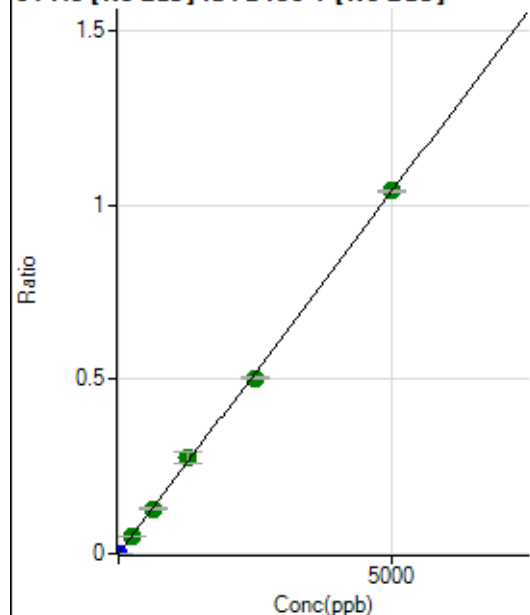
$$DL = 0.3758$$

$$BEC = 0.5049$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	675.07	0.0000	P	48.5
2	☐	5.000	4.887	28894.51	0.0010	P	3.4
3	☐	250.000	240.961	1444428.35	0.0500	A	5.1
4	☐	625.000	623.663	3765216.40	0.1294	A	6.5
5	☐	1250.000	1337.037	7456622.13	0.2773	A	11.7
6	☐	2500.000	2426.503	14467035.57	0.5032	A	1.6
7	☐	5000.000	5015.608	28964242.66	1.0402	A	0.6
8	☐			13281.65	0.0005	P	6.3

$$y = 2.0738\text{E-}004 * x + 2.3673\text{E-}005$$

$$R = 0.9997$$

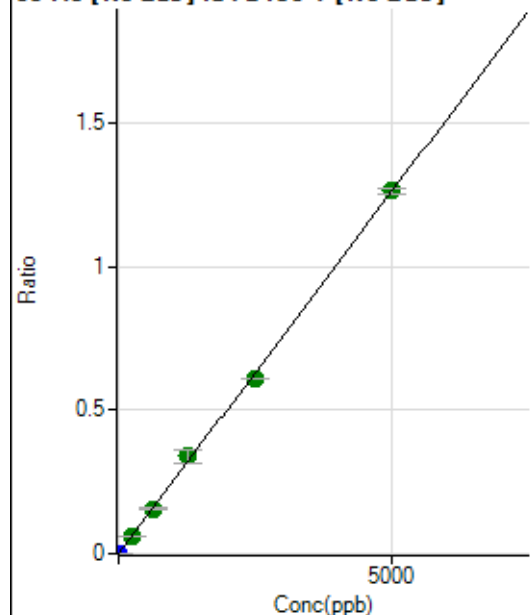
$$DL = 0.1661$$

$$BEC = 0.1142$$

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	322.26	0.0000	P	100.0
2	☐	5.000	4.976	35306.83	0.0013	P	2.7
3	☐	250.000	240.527	1754477.82	0.0607	A	4.3
4	☐	625.000	618.112	4541847.76	0.1560	A	5.6
5	☐	1250.000	1345.433	9126292.22	0.3396	A	12.4
6	☐	2500.000	2425.518	17598837.37	0.6121	A	0.5
7	☐	5000.000	5014.717	35235862.59	1.2656	A	1.3
8	☐			13053.69	0.0005	P	4.1

$$y = 2.5237\text{E-}004 * x + 1.1322\text{E-}005$$

$$R = 0.9996$$

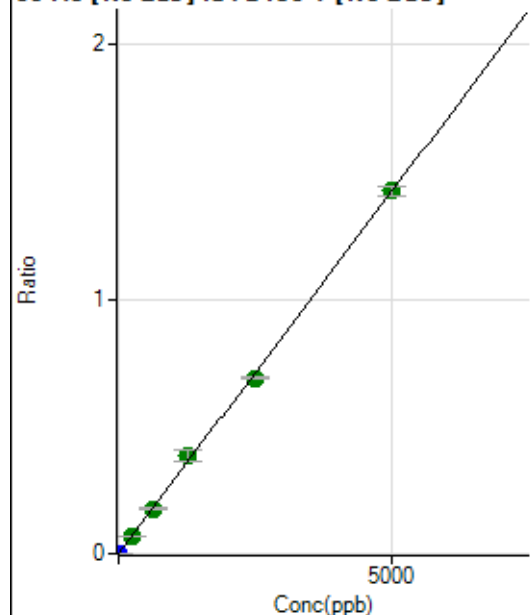
$$DL = 0.1346$$

$$BEC = 0.04486$$

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	538.95	0.0000	P	73.9
2	☐	5.000	4.866	39094.84	0.0014	P	2.7
3	☐	250.000	245.869	2020770.05	0.0699	A	4.3
4	☐	625.000	619.402	5126536.40	0.1761	A	6.4
5	☐	1250.000	1345.615	10288745.63	0.3826	A	11.8
6	☐	2500.000	2430.010	19861785.86	0.6909	A	0.7
7	☐	5000.000	5011.998	39668009.92	1.4250	A	2.3
8	☐			32503.07	0.0012	P	6.8

$$y = 2.8431\text{E-}004 * x + 1.8916\text{E-}005$$

$$R = 0.9996$$

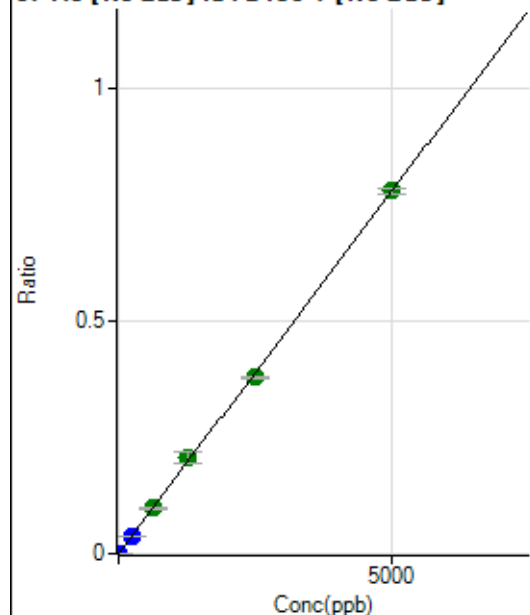
$$DL = 0.1475$$

$$BEC = 0.06653$$

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	180.57	0.0000	P	95.5
2	☐	5.000	4.896	21439.41	0.0008	P	3.0
3	☐	250.000	238.991	1076444.92	0.0372	P	3.4
4	☐	625.000	631.516	2865017.82	0.0984	A	5.3
5	☐	1250.000	1330.853	5577143.40	0.2074	A	11.4
6	☐	2500.000	2439.584	10926829.15	0.3801	A	1.3
7	☐	5000.000	5009.731	21730243.20	0.7806	A	1.7
8	☐			7799.62	0.0003	P	8.2

$$y = 1.5581E-004 * x + 6.3467E-006$$

$$R = 0.9997$$

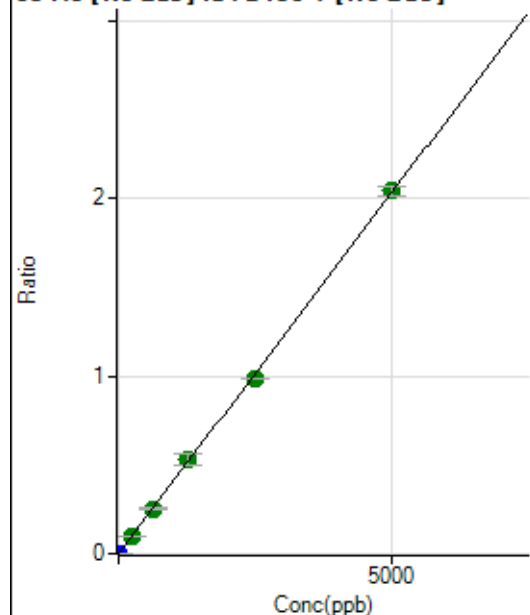
$$DL = 0.1167$$

$$BEC = 0.04073$$

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	530.69	0.0000	P	127.5
2	☐	5.000	4.814	55010.12	0.0020	P	1.3
3	☐	250.000	242.485	2847449.96	0.0985	A	2.6
4	☐	625.000	614.861	7271460.23	0.2497	A	4.9
5	☐	1250.000	1307.852	14281201.02	0.5312	A	11.9
6	☐	2500.000	2419.576	28249919.73	0.9827	A	0.5
7	☐	5000.000	5027.392	56833319.33	2.0417	A	2.8
8	☐			19811.86	0.0007	P	6.2

$$y = 4.0612E-004 * x + 1.8656E-005$$

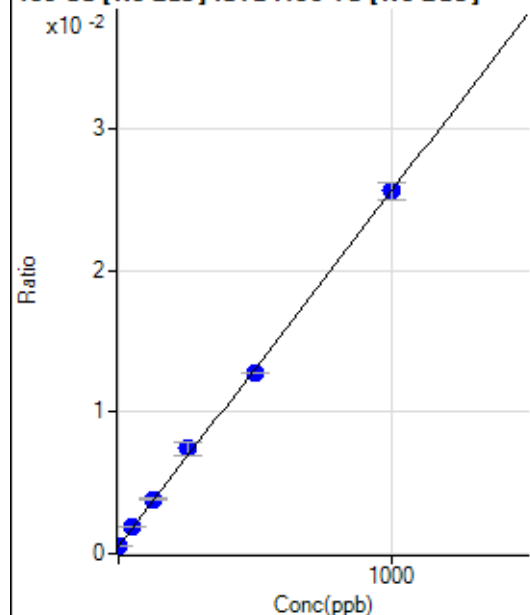
$$R = 0.9997$$

$$DL = 0.1757$$

$$BEC = 0.04594$$

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	7352.19	0.0005	P	2.4
2	☐	1.000	1.794	7732.94	0.0006	P	3.0
3	☐	50.000	53.765	25343.44	0.0019	P	1.6
4	☐	125.000	131.616	54123.73	0.0038	P	3.6
5	☐	250.000	274.520	98508.36	0.0074	P	12.3
6	☐	500.000	485.216	182304.29	0.0127	P	0.1
7	☐	1000.000	1000.246	349243.46	0.0257	P	4.8
8	☐			7466.12	0.0005	P	4.1

$$y = 2.5127\text{E-}005 * x + 5.3536\text{E-}004$$

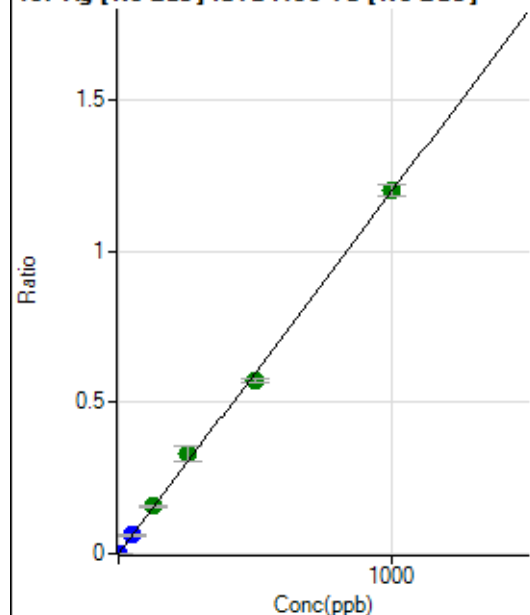
$$R = 0.9995$$

$$DL = 1.507$$

$$BEC = 21.31$$

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	363.90	0.0000	P	10.5
2	☐	1.000	0.976	15876.28	0.0012	P	6.1
3	☐	50.000	51.102	821530.51	0.0612	P	2.9
4	☐	125.000	130.649	2200617.61	0.1563	A	6.4
5	☐	250.000	274.975	4350835.08	0.3289	A	14.6
6	☐	500.000	479.850	8223857.13	0.5740	A	2.3
7	☐	1000.000	1003.070	16331637.52	1.1999	A	3.3
8	☐			6443.36	0.0005	P	5.3

$$y = 0.0012 * x + 2.6493\text{E-}005$$

$$R = 0.9994$$

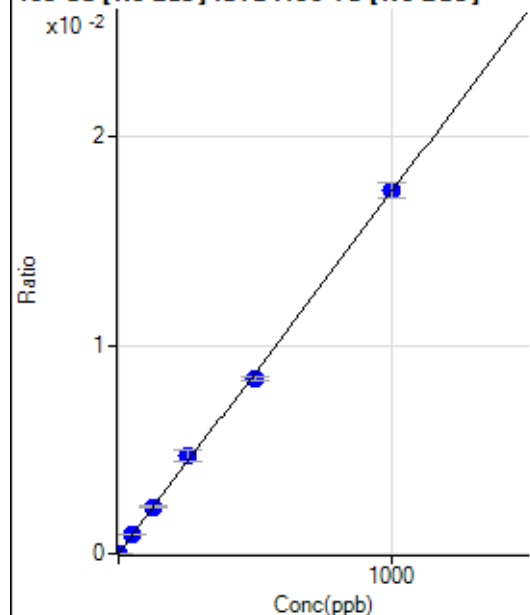
$$DL = 0.00698$$

$$BEC = 0.02215$$

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	148.62	0.0000	P	87.0
2	☐	1.000	1.024	383.35	0.0000	P	22.1
3	☐	50.000	51.180	12095.74	0.0009	P	1.6
4	☐	125.000	128.747	31651.70	0.0022	P	5.3
5	☐	250.000	271.817	62747.62	0.0047	P	11.9
6	☐	500.000	483.980	120592.94	0.0084	P	2.3
7	☐	1000.000	1002.029	237076.98	0.0174	P	4.2
8	☐			226.39	0.0000	P	17.7

$$y = 1.7376\text{E-}005 * x + 1.0896\text{E-}005$$

$$R = 0.9996$$

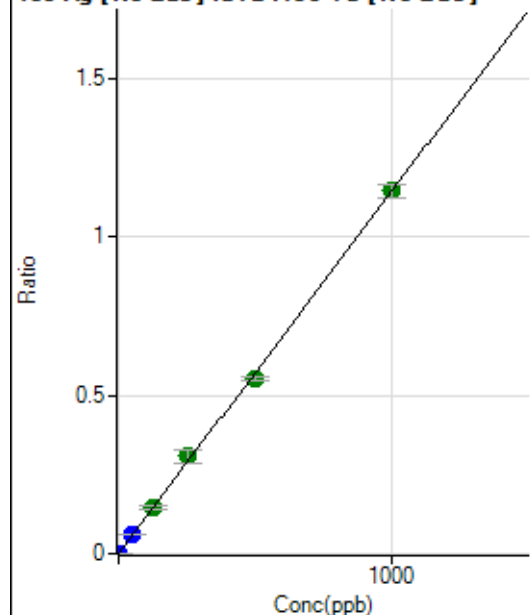
$$DL = 1.636$$

$$BEC = 0.6271$$

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	236.12	0.0000	P	27.9
2	☐	1.000	0.969	14969.65	0.0011	P	6.3
3	☐	50.000	51.708	794844.99	0.0592	P	2.9
4	☐	125.000	127.571	2055207.38	0.1460	A	5.2
5	☐	250.000	269.687	4085013.42	0.3085	A	13.4
6	☐	500.000	485.440	7953617.63	0.5554	A	2.0
7	☐	1000.000	1001.951	15600760.42	1.1463	A	3.6
8	☐			6140.46	0.0004	P	11.9

$$y = 0.0011 * x + 1.7224\text{E-}005$$

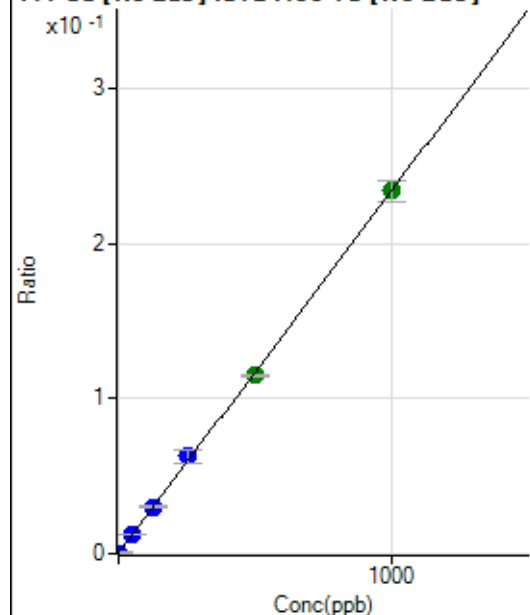
$$R = 0.9996$$

$$DL = 0.01261$$

$$BEC = 0.01506$$

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	5155.01	0.0004	P	2.3
2	☐	1.000	1.046	8257.61	0.0006	P	3.5
3	☐	50.000	51.387	166373.82	0.0124	P	2.2
4	☐	125.000	128.374	427760.75	0.0304	P	4.6
5	☐	250.000	268.426	835168.76	0.0631	P	13.8
6	☐	500.000	490.030	1645455.30	0.1149	A	1.7
7	☐	1000.000	999.887	3183966.15	0.2340	A	5.6
8	☐			6219.26	0.0005	P	3.9

$$y = 2.3369\text{E-}004 * x + 3.7536\text{E-}004$$

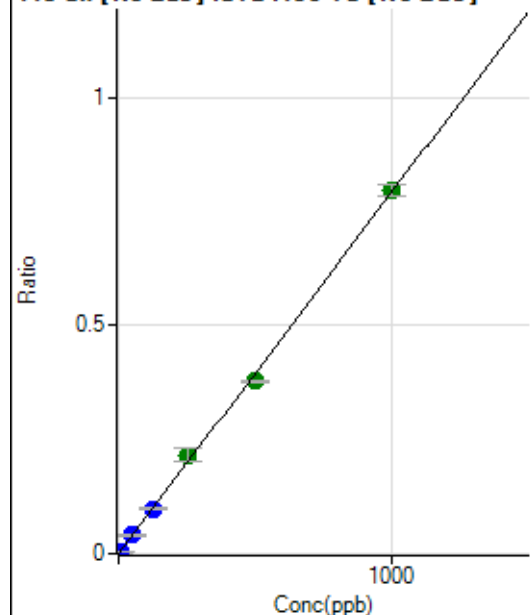
$$R = 0.9997$$

$$DL = 0.1106$$

$$BEC = 1.606$$

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	3108.83	0.0002	P	12.9
2	☐	5.000	4.967	55348.89	0.0042	P	1.9
3	☐	50.000	50.512	540111.63	0.0402	P	3.2
4	☐	125.000	124.769	1393664.63	0.0990	P	5.9
5	☐	250.000	273.237	2865048.11	0.2165	A	14.1
6	☐	500.000	478.617	5430344.61	0.3791	A	1.1
7	☐	1000.000	1004.886	10830580.10	0.7957	A	3.1
8	☐			5139.98	0.0004	P	5.0

$$y = 7.9157\text{E-}004 * x + 2.2657\text{E-}004$$

$$R = 0.9994$$

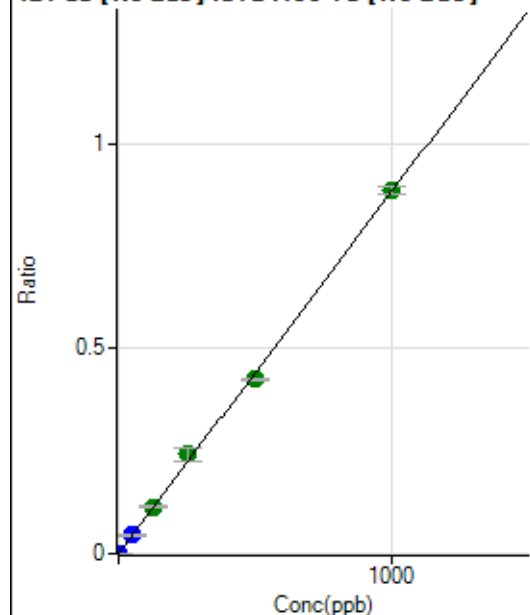
$$DL = 0.1109$$

$$BEC = 0.2862$$

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	197.23	0.0000	P	71.9
2	☐	2.000	1.954	23159.11	0.0017	P	1.9
3	☐	50.000	50.505	599153.51	0.0446	P	3.4
4	☐	125.000	127.677	1587957.44	0.1127	A	4.1
5	☐	250.000	274.776	3210640.98	0.2426	A	14.0
6	☐	500.000	481.304	6087718.10	0.4250	A	0.6
7	☐	1000.000	1002.794	12056866.59	0.8854	A	2.1
8	☐			8886.51	0.0006	P	10.7

$$y = 8.8296\text{E-}004 * x + 1.4436\text{E-}005$$

$$R = 0.9994$$

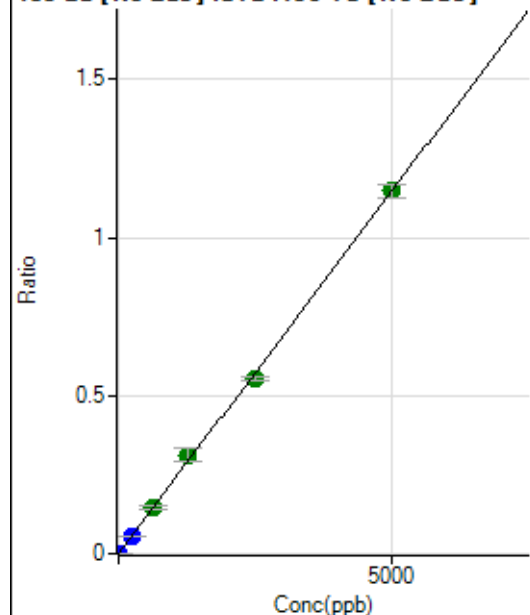
$$DL = 0.03529$$

$$BEC = 0.01635$$

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	191.67	0.0000	P	61.5
2	☐	10.000	9.722	29850.22	0.0022	P	1.2
3	☐	250.000	246.384	758482.74	0.0565	P	2.9
4	☐	625.000	637.351	2055999.65	0.1460	A	6.0
5	☐	1250.000	1364.463	4137947.14	0.3126	A	13.8
6	☐	2500.000	2422.407	7951843.66	0.5550	A	2.0
7	☐	5000.000	5008.818	15620514.59	1.1476	A	3.5
8	☐			5840.31	0.0004	P	3.8

$$y = 2.2912\text{E-}004 * x + 1.4018\text{E-}005$$

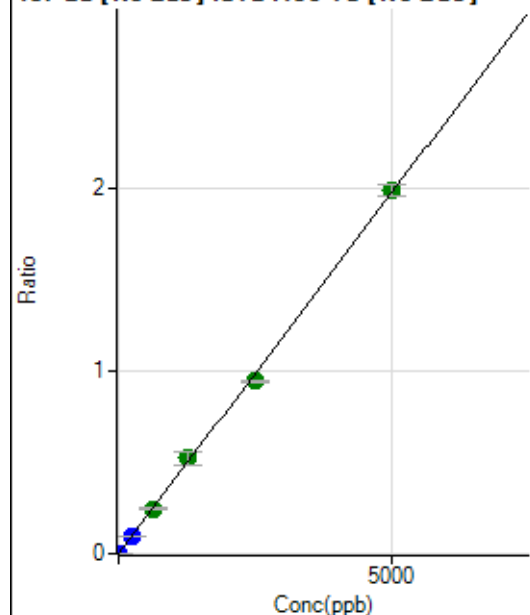
$$R = 0.9995$$

$$DL = 0.1129$$

$$BEC = 0.06118$$

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	397.26	0.0000	P	83.5
2	☐	10.000	9.815	51836.37	0.0039	P	2.7
3	☐	250.000	244.346	1293044.63	0.0963	P	3.0
4	☐	625.000	626.265	3472355.24	0.2467	A	6.5
5	☐	1250.000	1328.887	6924581.32	0.5234	A	14.3
6	☐	2500.000	2397.357	13526529.38	0.9442	A	1.2
7	☐	5000.000	5031.724	26974519.01	1.9818	A	3.2
8	☐			10037.31	0.0007	P	5.4

$$y = 3.9385E-004 * x + 2.9102E-005$$

$$R = 0.9996$$

$$DL = 0.1851$$

$$BEC = 0.07389$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			22.22		P	45.8
2	☐			8.89		P	86.6
3	☐			53.33		P	12.5
4	☐			91.11		P	11.2
5	☐			204.45		P	21.7
6	☐			397.79		P	4.2
7	☐			766.71		P	13.6
8	☐			108.89		P	12.7

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			2.22		P	86.6
3	☐			6.67		P	50.0
4	☐			7.78		P	24.7
5	☐			15.55		P	24.8
6	☐			26.67		P	25.0
7	☐			46.67		P	37.8
8	☐			43.33		P	20.4

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.78		P	173.2
2	☐			13.89		P	69.3
3	☐			61.11		P	15.7
4	☐			86.11		P	14.8
5	☐			150.00		P	25.5
6	☐			316.68		P	20.6
7	☐			661.15		P	9.3
8	☐			2047.43		P	2.0

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6.67		P	132.3
2	☐			3.33		P	100.1
3	☐			13.33		P	43.3
4	☐			35.56		P	28.6
5	☐			83.33		P	10.6
6	☐			98.89		P	37.1
7	☐			272.23		P	13.5
8	☐			874.48		P	2.5

160 Gd [No Gas] Noavailable calibration poin_

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			88.89		P	35.5
2	☐			86.11		P	27.9
3	☐			102.78		P	48.9
4	☐			144.45		P	12.0
5	☐			186.12		P	6.8
6	☐			350.01		P	14.5
7	☐			538.92		P	12.6
8	☐			1897.40		P	4.7

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			71.11		P	24.1
2	☐			96.67		P	9.1
3	☐			110.00		P	13.9
4	☐			135.56		P	13.5
5	☐			153.34		P	15.2
6	☐			205.56		P	7.5
7	☐			290.01		P	24.2
8	☐			1063.39		P	1.4

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			69.45		P	18.3
2	☐			80.56		P	23.9
3	☐			108.34		P	40.7
4	☐			119.45		P	4.0
5	☐			122.22		P	17.2
6	☐			161.12		P	29.4
7	☐			119.45		P	31.5
8	☐			336.12		P	14.9

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			27.78		P	34.6
2	☐			26.67		P	37.5
3	☐			36.66		P	31.5
4	☐			41.11		P	12.4
5	☐			58.89		P	23.6
6	☐			57.78		P	17.6
7	☐			65.55		P	5.9
8	☐			142.22		P	17.9

172 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			33.33		P	50.0
2	☐			44.45		P	65.8
3	☐			58.34		P	24.7
4	☐			52.78		P	39.7
5	☐			61.11		P	20.8
6	☐			61.11		P	56.8
7	☐			100.00		P	22.0
8	☐			180.56		P	19.2

172 Yb [He] No available calibration points

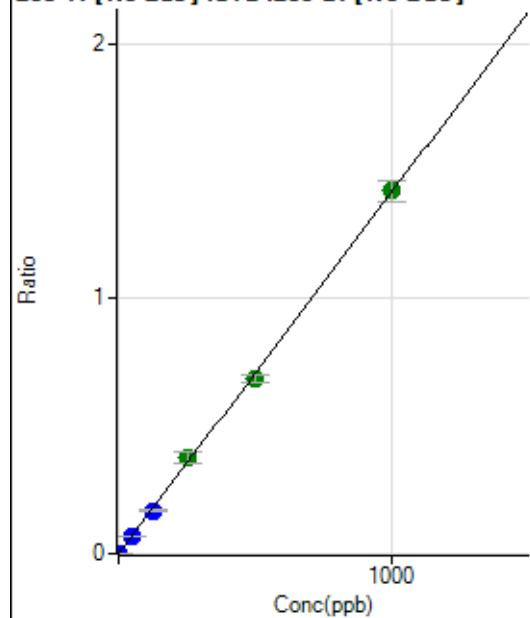
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			27.78		P	20.0
2	☐			31.48		P	27.0
3	☐			12.96		P	65.4
4	☐			24.08		P	70.5
5	☐			27.78		P	80.0
6	☐			37.04		P	45.8
7	☐			42.60		P	52.7
8	☐			83.33		P	24.0

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1602.92		P	7.1
2	☐			1583.47		P	2.3
3	☐			3834.00		P	5.1
4	☐			7152.11		P	4.4
5	☐			12653.59		P	3.3
6	☐			23265.55		P	3.5
7	☐			44386.43		P	1.0
8	☐			1772.38		P	4.7

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6855.59		P	0.1
2	☐			6601.75		P	3.6
3	☐			8043.33		P	1.4
4	☐			9581.40		P	2.4
5	☐			12244.76		P	1.3
6	☐			16757.19		P	3.0
7	☐			27094.74		P	4.2
8	☐			7135.38		P	5.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	700.04	0.0001	P	16.4
2	☐	1.000	0.927	9998.63	0.0014	P	5.9
3	☐	50.000	47.385	484869.88	0.0673	P	2.3
4	☐	125.000	119.588	1280140.36	0.1697	P	5.5
5	☐	250.000	266.041	2699480.07	0.3773	A	10.3
6	☐	500.000	485.262	5275017.22	0.6881	A	4.7
7	☐	1000.000	1004.166	10298247.37	1.4239	A	6.2
8	☐			3439.45	0.0005	P	2.9

$$y = 0.0014 * x + 9.5408E-005$$

$$R = 0.9997$$

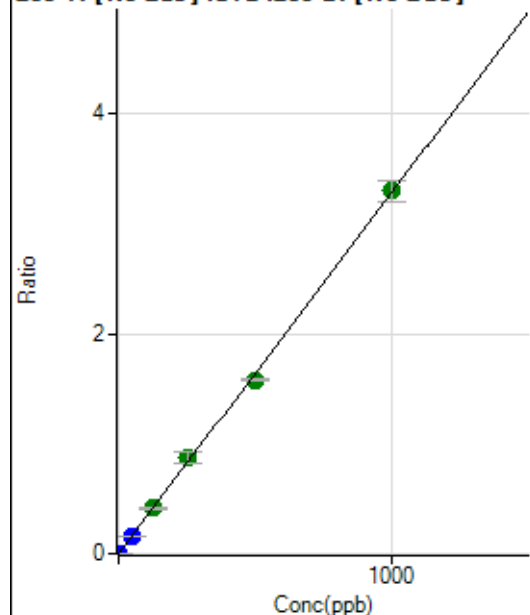
$$DL = 0.03319$$

$$BEC = 0.06729$$

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	1586.26	0.0002	P	18.0
2	☐	1.000	0.946	23580.40	0.0033	P	3.5
3	☐	50.000	47.755	1132035.48	0.1571	P	2.6
4	☐	125.000	125.704	3117336.73	0.4132	A	5.8
5	☐	250.000	265.832	6247305.74	0.8735	A	10.9
6	☐	500.000	481.892	12136846.71	1.5833	A	1.9
7	☐	1000.000	1005.120	23886979.18	3.3021	A	5.7
8	☐			8088.83	0.0012	P	5.7

$$y = 0.0033 * x + 2.1620E-004$$

R = 0.9996

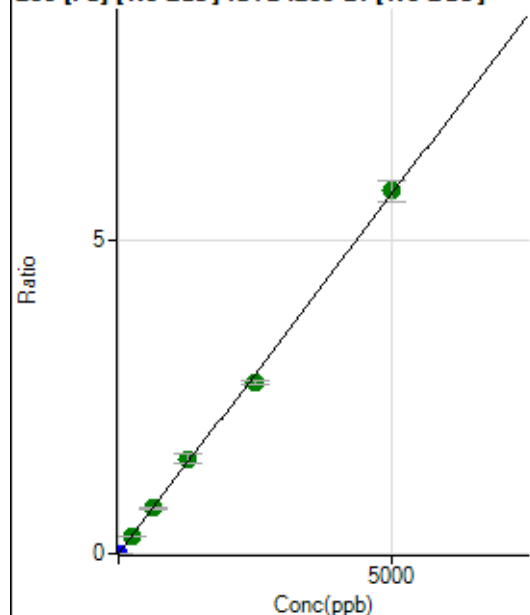
DL = 0.03563

BEC = 0.06581

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	1616.82	0.0002	P	14.7
2	☐	1.000	0.970	9466.68	0.0013	P	1.6
3	☐	250.000	246.142	2039031.80	0.2829	A	2.1
4	☐	625.000	628.342	5447483.69	0.7219	A	5.2
5	☐	1250.000	1321.013	10848978.25	1.5175	A	11.3
6	☐	2500.000	2372.408	20885570.84	2.7251	A	2.6
7	☐	5000.000	5045.818	41923012.51	5.7957	A	5.7
8	☐			17222.75	0.0026	P	3.6

$$y = 0.0011 * x + 2.2050E-004$$

R = 0.9994

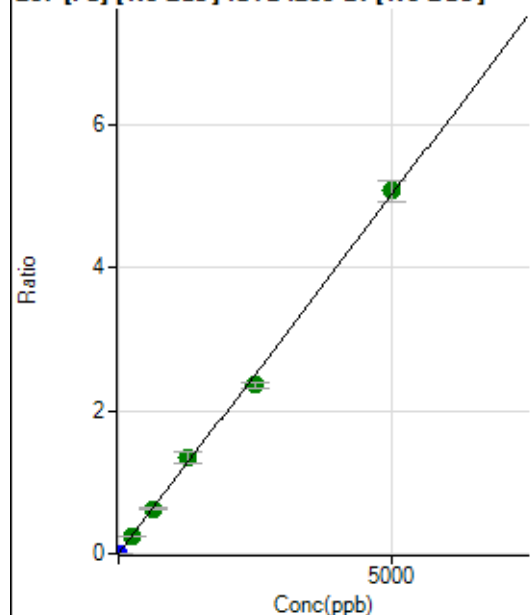
DL = 0.0845

BEC = 0.192

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1392.71	0.0002	P	15.6
2	☐	1.000	0.963	8197.23	0.0012	P	6.9
3	☐	250.000	246.183	1781268.96	0.2471	A	2.3
4	☐	625.000	627.738	4752628.00	0.6298	A	5.0
5	☐	1250.000	1330.610	9537380.77	1.3347	A	12.0
6	☐	2500.000	2348.967	18054538.48	2.3561	A	3.5
7	☐	5000.000	5055.213	36677720.73	5.0703	A	5.7
8	☐			15064.55	0.0023	P	2.0

$$y = 0.0010 * x + 1.8983E-004$$

$$R = 0.9992$$

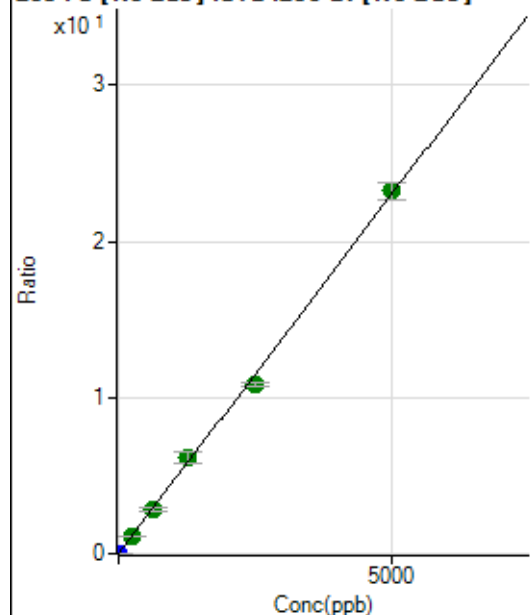
$$DL = 0.08842$$

$$BEC = 0.1893$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6484.22	0.0009	P	13.6
2	☐	1.000	0.942	36980.59	0.0052	P	4.5
3	☐	250.000	245.722	8148765.65	1.1308	A	2.5
4	☐	625.000	616.911	21412504.53	2.8376	A	5.2
5	☐	1250.000	1336.277	43937100.75	6.1455	A	11.3
6	☐	2500.000	2357.133	83090246.42	10.8397	A	1.8
7	☐	5000.000	5051.089	168090838.0	23.2274	A	4.4
8	☐			68820.43	0.0105	P	1.9

$$y = 0.0046 * x + 8.8414E-004$$

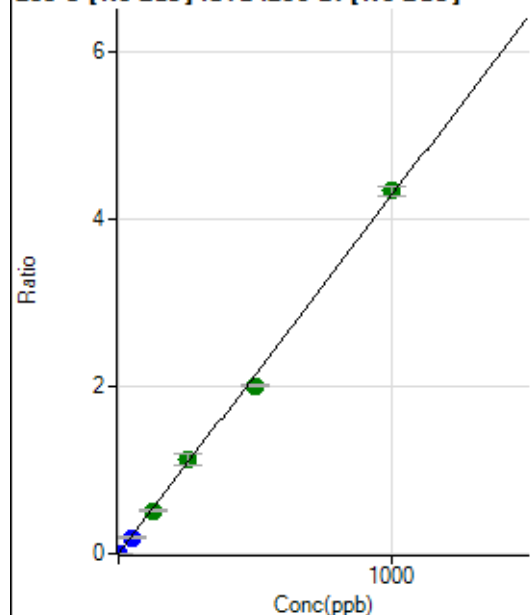
$$R = 0.9992$$

$$DL = 0.07835$$

$$BEC = 0.1923$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	377.90	0.0001	P	146.0
2	☐	1.000	0.891	27424.87	0.0039	P	1.3
3	☐	50.000	45.578	1405920.42	0.1951	P	2.4
4	☐	125.000	119.934	3874573.48	0.5133	A	3.9
5	☐	250.000	262.810	8034423.88	1.1247	A	12.4
6	☐	500.000	469.111	15396265.62	2.0076	A	1.9
7	☐	1000.000	1013.096	31392885.07	4.3355	A	2.8
8	☐			5195.66	0.0008	P	10.1

$$y = 0.0043 * x + 5.0950E-005$$

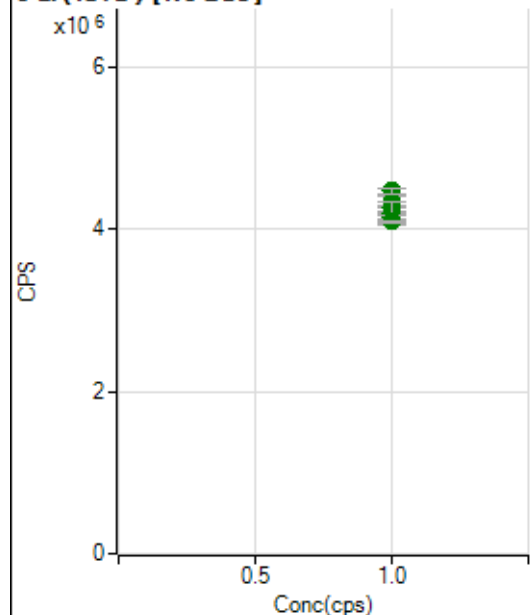
$$R = 0.9992$$

$$DL = 0.05214$$

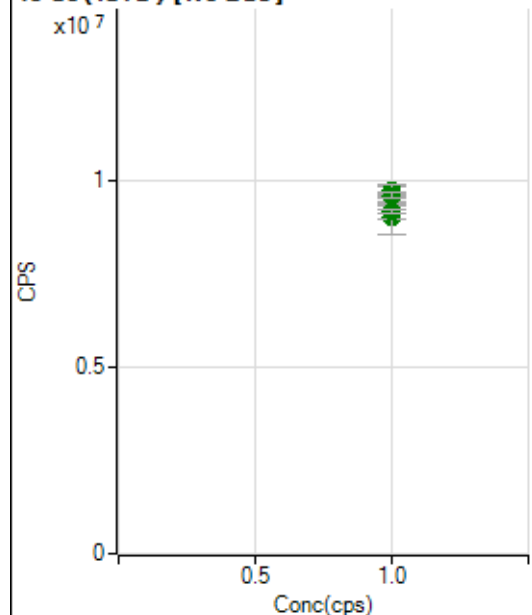
$$BEC = 0.01191$$

Weight: <None>

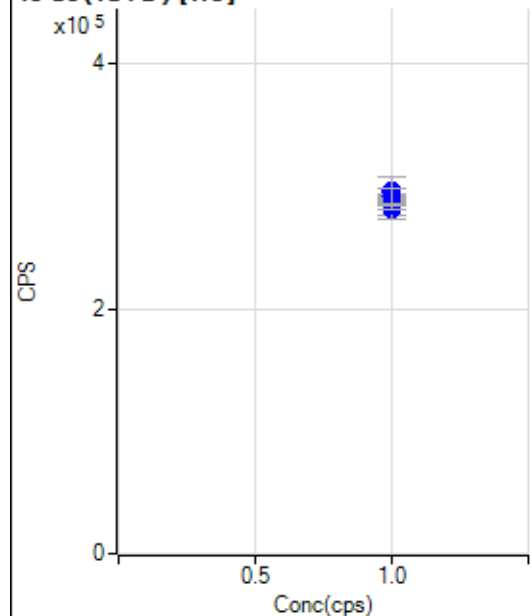
Min Conc: 0

6 Li (ISTD) [No Gas]

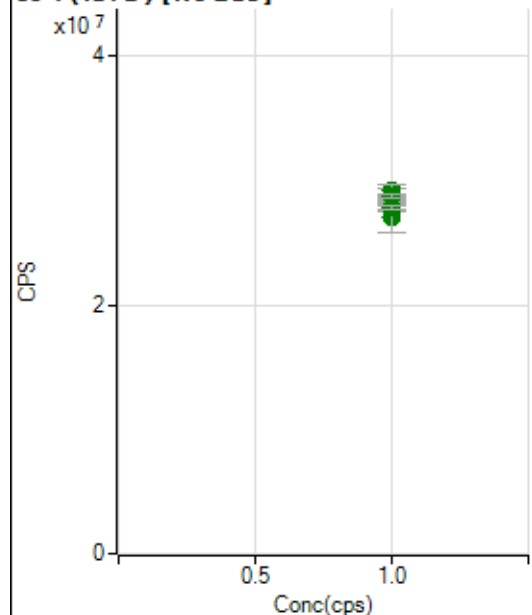
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4142220.72		A	3.6
2	☐	1.000		4152508.10		A	2.7
3	☐	1.000		4122264.93		A	2.7
4	☐	1.000		4341110.18		A	3.1
5	☐	1.000		4205523.90		A	4.2
6	☐	1.000		4475973.01		A	1.8
7	☐	1.000		4265373.71		A	3.9
8	☐	1.000		4098932.17		A	0.6

45 Sc (ISTD) [No Gas]

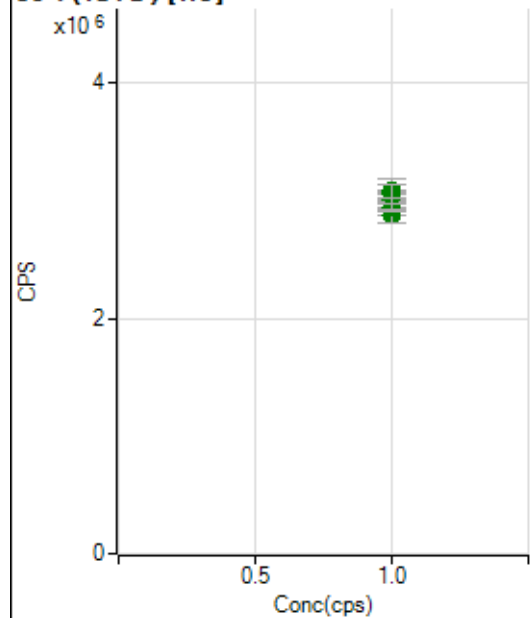
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9707336.94		A	2.1
2	☐	1.000		9429809.93		A	1.6
3	☐	1.000		9430235.76		A	2.8
4	☐	1.000		9703435.34		A	4.1
5	☐	1.000		8986252.23		A	9.4
6	☐	1.000		9593281.59		A	1.7
7	☐	1.000		9157232.43		A	4.6
8	☐	1.000		9176132.50		A	1.2

45 Sc (ISTD) [He]

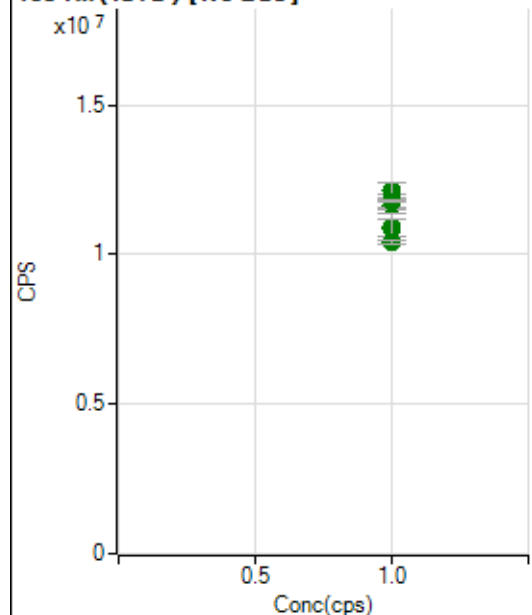
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		284067.70		P	4.8
2	☐	1.000		280555.58		P	4.8
3	☐	1.000		293457.56		P	0.4
4	☐	1.000		295626.03		P	1.4
5	☐	1.000		286445.38		P	0.7
6	☐	1.000		285089.97		P	3.1
7	☐	1.000		296442.79		P	7.8
8	☐	1.000		292129.10		P	3.9

89 Y (ISTD) [No Gas]

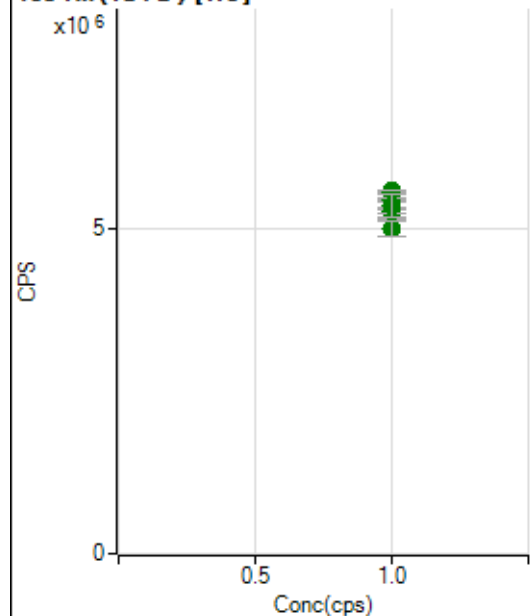
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		28594629.02		A	1.0
2	☐	1.000		27873837.36		A	2.0
3	☐	1.000		28926831.23		A	3.5
4	☐	1.000		29153915.12		A	3.8
5	☐	1.000		27098120.43		A	9.9
6	☐	1.000		28748787.35		A	0.9
7	☐	1.000		27847808.47		A	2.7
8	☐	1.000		27821579.87		A	1.1

89 Y (ISTD) [He]

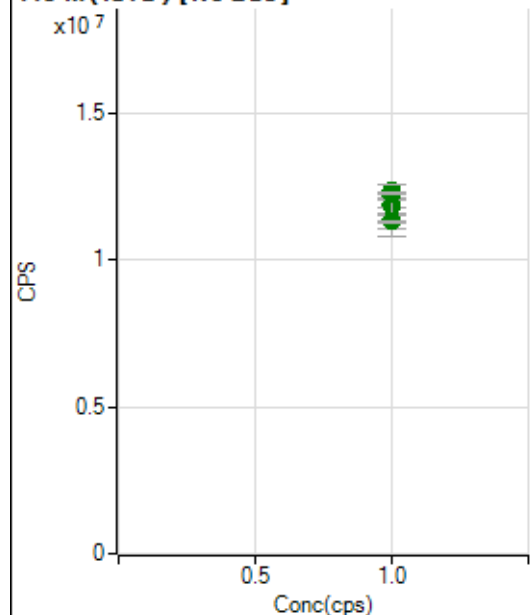
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2947998.91		A	4.5
2	☐	1.000		2882184.78		A	4.7
3	☐	1.000		3065322.49		A	0.9
4	☐	1.000		3079194.50		A	1.2
5	☐	1.000		3007481.93		A	1.5
6	☐	1.000		2938798.98		A	2.2
7	☐	1.000		3052815.51		A	8.4
8	☐	1.000		3083999.71		A	3.9

103 Rh (ISTD) [No Gas]

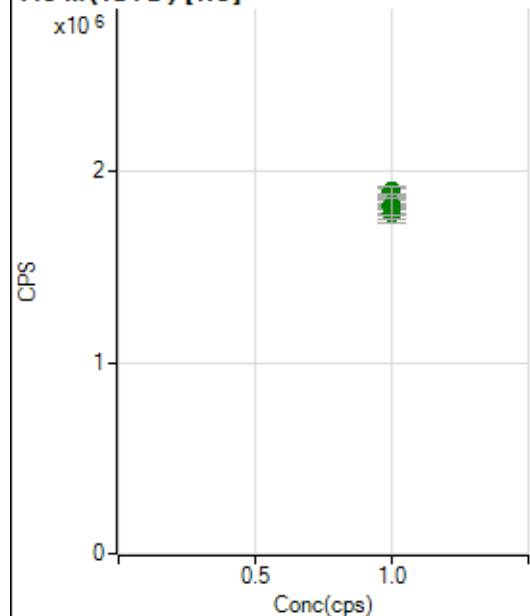
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11899084.47		A	1.5
2	☐	1.000		11646359.03		A	2.9
3	☐	1.000		11789195.66		A	3.3
4	☐	1.000		12121537.69		A	4.3
5	☐	1.000		10869897.99		A	9.4
6	☐	1.000		11786325.87		A	0.7
7	☐	1.000		10912824.20		A	5.2
8	☐	1.000		10379366.46		A	1.2

103 Rh (ISTD) [He]

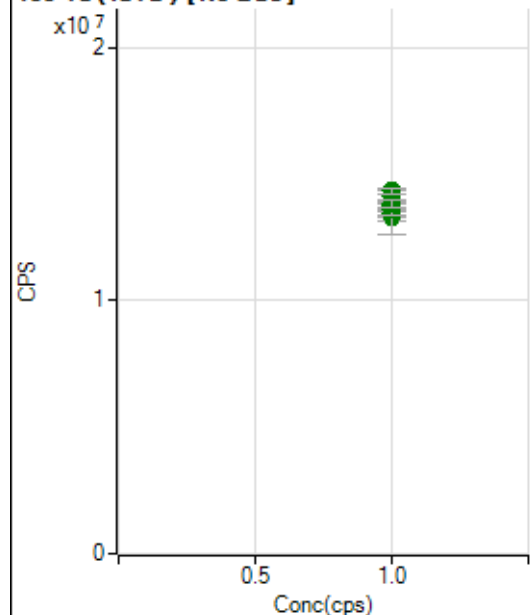
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5438086.52		A	3.9
2	☐	1.000		5302970.61		A	5.2
3	☐	1.000		5589993.39		A	0.4
4	☐	1.000		5572397.17		A	1.1
5	☐	1.000		5454830.82		A	1.4
6	☐	1.000		5271395.62		A	1.2
7	☐	1.000		5369014.54		A	6.6
8	☐	1.000		5015697.18		A	4.8

115 In (ISTD) [No Gas]

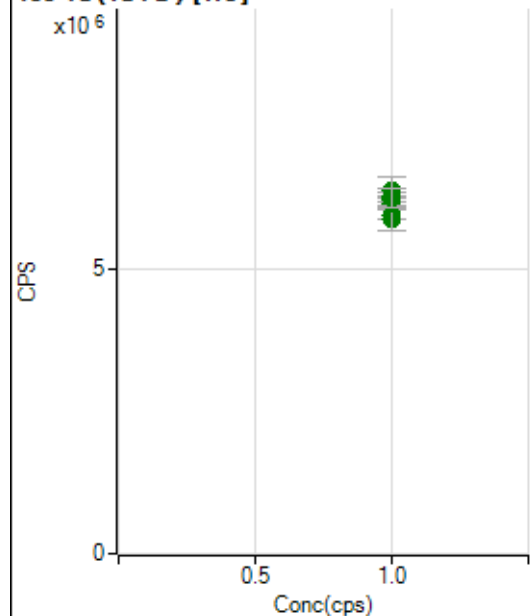
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		12176605.05		A	1.6
2	☐	1.000		11911687.78		A	2.4
3	☐	1.000		11848313.89		A	3.9
4	☐	1.000		12364361.31		A	3.5
5	☐	1.000		11422821.35		A	10.8
6	☐	1.000		12284917.88		A	0.6
7	☐	1.000		11309982.58		A	3.6
8	☐	1.000		11320720.60		A	0.6

115 In (ISTD) [He]

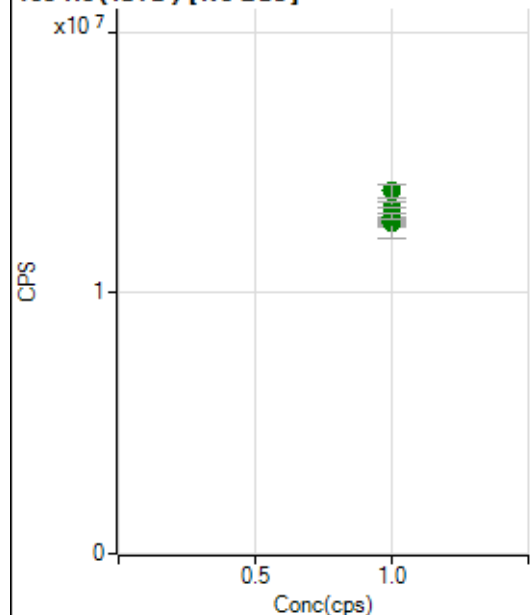
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1828287.35		A	5.5
2	☐	1.000		1783286.46		A	5.6
3	☐	1.000		1898572.66		A	1.3
4	☐	1.000		1894224.49		A	2.6
5	☐	1.000		1835151.63		A	2.3
6	☐	1.000		1809534.87		A	1.2
7	☐	1.000		1813650.27		A	7.3
8	☐	1.000		1817902.02		A	4.7

159 Tb (ISTD) [No Gas]

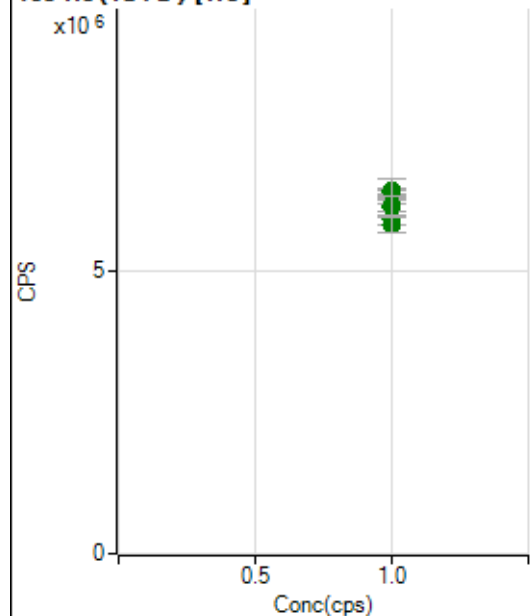
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		13735839.38		A	1.2
2	☐	1.000		13315498.41		A	2.8
3	☐	1.000		13439476.19		A	2.7
4	☐	1.000		14097835.76		A	3.5
5	☐	1.000		13381984.11		A	11.9
6	☐	1.000		14323971.73		A	1.4
7	☐	1.000		13621997.44		A	3.7
8	☐	1.000		13805473.96		A	2.2

159 Tb (ISTD) [He]

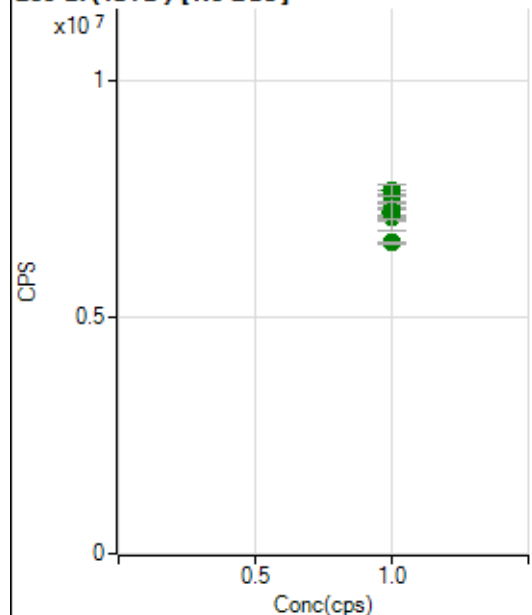
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5962711.85		A	2.8
2	☐	1.000		5885009.57		A	6.4
3	☐	1.000		6158950.74		A	2.7
4	☐	1.000		6285303.87		A	0.6
5	☐	1.000		6226543.66		A	1.2
6	☐	1.000		6280297.69		A	2.7
7	☐	1.000		6379399.56		A	8.2
8	☐	1.000		6251890.74		A	5.2

165 Ho (ISTD) [No Gas]

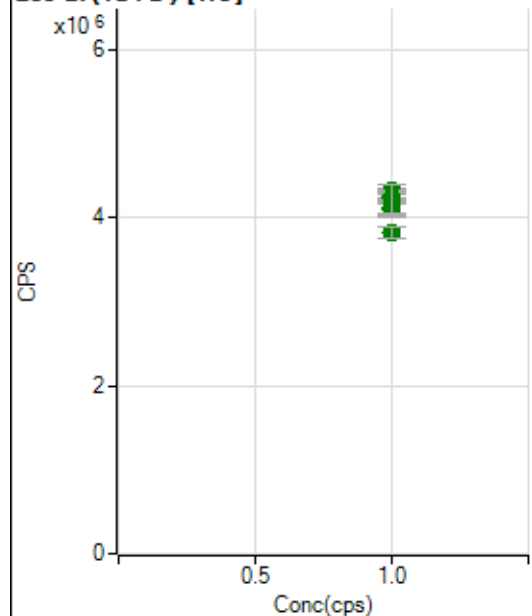
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		12887433.36		A	2.9
2	☐	1.000		12658170.16		A	1.1
3	☐	1.000		12741639.43		A	3.0
4	☐	1.000		13275048.82		A	3.7
5	☐	1.000		12665562.18		A	9.1
6	☐	1.000		13907790.59		A	3.6
7	☐	1.000		13053087.44		A	3.0
8	☐	1.000		12928589.09		A	1.3

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5940192.27		A	3.9
2	☐	1.000		5829245.61		A	5.1
3	☐	1.000		6124526.44		A	2.1
4	☐	1.000		6319291.16		A	3.6
5	☐	1.000		6283893.38		A	0.5
6	☐	1.000		6428950.94		A	1.6
7	☐	1.000		6412000.25		A	7.0
8	☐	1.000		6167651.58		A	5.2

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7325750.03		A	1.4
2	☐	1.000		7094993.30		A	1.2
3	☐	1.000		7209602.88		A	3.1
4	☐	1.000		7555666.35		A	3.7
5	☐	1.000		7208319.48		A	10.9
6	☐	1.000		7668243.29		A	3.2
7	☐	1.000		7248144.89		A	5.3
8	☐	1.000		6569126.01		A	0.9

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4084987.93		A	3.7
2	☐	1.000		4106880.77		A	3.9
3	☐	1.000		4206567.75		A	1.5
4	☐	1.000		4311741.15		A	1.9
5	☐	1.000		4313626.88		A	0.5
6	☐	1.000		4257134.14		A	2.0
7	☐	1.000		4221627.30		A	8.3
8	☐	1.000		3815881.54		A	3.6

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8102221MS.b
Acq. Date-Time 2021-10-22 11:13:46
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		16623	166232.45			0.934	5.000
24		159390	1593903.18			2.482	5.000
25		20948	209475.96			1.351	5.000
26		24269	242685.49			1.207	5.000
59		42297	422973.70			1.323	5.000
113		17748	177478.87			1.004	5.000
115		59609	596088.88			1.188	5.000
206		20292	202924.63			1.609	5.000
207		17072	170720.54			1.159	5.000
208		42045	420447.46			1.388	5.000
220		1	7.30			27.653	

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

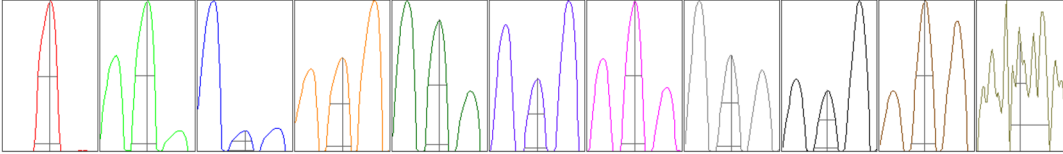
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	16761	16474	16632	16459	16791
24	160786	162521	155694	154684	163267
25	21091	21296	20733	20592	21025
26	24417	24478	24133	23815	24499
59	42708	41577	42341	41917	42944
113	17921	17452	17755	17770	17842
115	60362	59290	59184	58843	60365
206	20013	19944	20289	20489	20727
207	16901	16875	17058	17176	17350
208	41608	41280	42364	42268	42704

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	29689.10	9.00	8.90 - 9.10	
24	273190.91	24.00	23.90 - 24.10	
25	36329.30	25.05	24.90 - 25.10	
26	41253.04	26.05	25.90 - 26.10	
59	77815.81	59.00	58.90 - 59.10	
113	35543.18	113.05	112.90 - 113.10	
115	119429.88	115.05	114.90 - 115.10	
206	39738.12	206.00	205.90 - 206.10	
207	33539.54	206.95	206.90 - 207.10	
208	83133.57	207.95	207.90 - 208.10	
220	1.00	219.90	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.60	0.810	0.900	
24	0.61	0.786	0.900	
25	0.61	0.786	0.900	
26	0.62	0.786	0.900	
59	0.58	0.737	0.900	
113	0.52	0.698	0.900	
115	0.52	0.750	0.900	
206	0.53	0.768	0.900	
207	0.53	0.772	0.900	
208	0.53	0.772	0.900	
220	0.34	1.199		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.73 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	9.7 V	Deflect	15.0 V
Extract 2	-210.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-95 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	124	Axis Gain	0.9991	QP Bias	-4.0 V
Mass Offset	124	Axis Offset	0.00		

Hardware Settings

Torch

Torch H	0.9 mm	Torch V	-0.8 mm
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EM

Discriminator	3.9 mV	Analog HV	2261 V	Pulse HV	1550 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		9242	92418.32			3.997	
89		28005	280053.50			3.621	
205		18035	180348.47			3.645	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	9452	9380	8981	9651	8745
89	28657	28198	27376	29169	26627
205	18313	18072	17753	18904	17132

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.75 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	9.7 V	Deflect	4.4 V
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US EPA Tune Check Report

Extract 2	-210.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-95 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	124	Axis Gain	0.9991	QP Bias	-13.0 V
Mass Offset	124	Axis Offset	0.00		
Hardware Settings					
Torch					
Torch H	0.9 mm	Torch V	-0.8 mm		
EM					
Discriminator	3.9 mV	Analog HV	2261 V	Pulse HV	1550 V