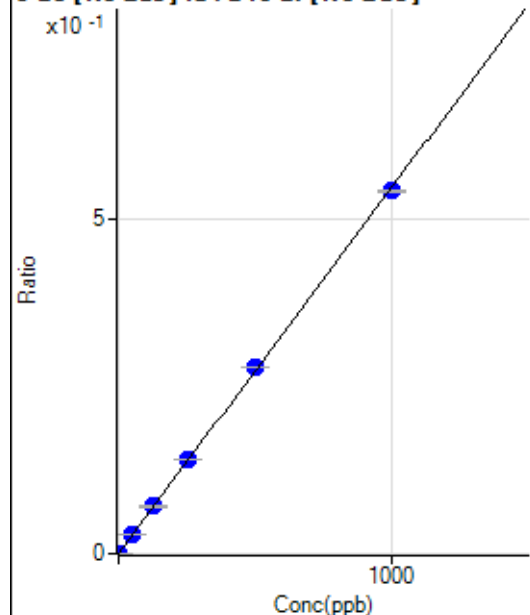


Batch Folder: C:\Agilent\ICPMH\1\DATA\P7092721S.b\
Analysis File: P7092721S.batch.bin
DA Date-Time: 2021-09-28 12:29:27
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	002CALB.d	S00	2021-09-28 10:36:24
2	004CALS.d	S02	2021-09-28 10:42:24
3	005CALS.d	S03	2021-09-28 10:45:24
4	006CALS.d	S04	2021-09-28 10:48:25
5	007CALS.d	S05	2021-09-28 10:51:23
6	008CALS.d	S06	2021-09-28 10:54:17
7	009CALS.d	S07	2021-09-28 10:57:10
8	010CALS.d	S08	2021-09-28 11:00:02

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	28.89	0.0000	P	13.2
2	☐	1.000	1.015	1536.76	0.0006	P	6.3
3	☐	50.000	51.464	74475.55	0.0281	P	1.3
4	☐	125.000	129.076	178500.57	0.0704	P	0.7
5	☐	250.000	257.439	332325.09	0.1404	P	0.7
6	☐	500.000	511.884	580658.35	0.2791	P	0.1
7	☐	1000.000	991.616	1027393.69	0.5406	P	0.6
8	☐			178.89	0.0001	P	18.5

$$y = 5.4516\text{E-}004 * x + 1.0866\text{E-}005$$

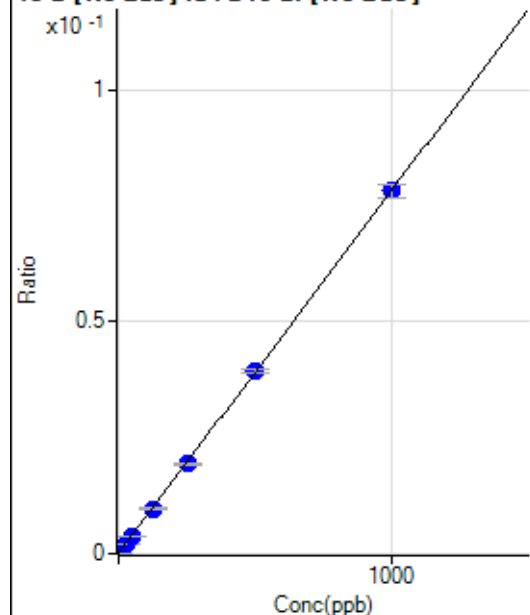
$$R = 0.9999$$

$$DL = 0.007914$$

$$BEC = 0.01993$$

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	186.11	0.0001	P	14.3
2	☐	25.000	25.194	5551.17	0.0020	P	9.9
3	☐	50.000	48.028	10148.09	0.0038	P	3.8
4	☐	125.000	122.336	24422.99	0.0096	P	2.9
5	☐	250.000	247.637	45998.21	0.0194	P	2.6
6	☐	500.000	502.975	81932.19	0.0394	P	2.6
7	☐	1000.000	999.530	148571.79	0.0782	P	4.0
8	☐			4272.92	0.0022	P	11.7

$$y = 7.8174\text{E-}005 * x + 7.0003\text{E-}005$$

$$R = 1.0000$$

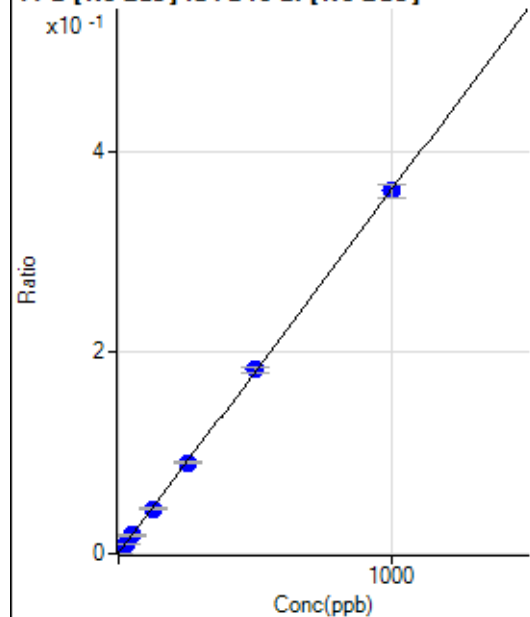
$$DL = 0.3851$$

$$BEC = 0.8955$$

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	1036.18	0.0004	P	10.9
2	☐	25.000	24.087	24723.52	0.0091	P	5.5
3	☐	50.000	50.079	48988.13	0.0185	P	3.8
4	☐	125.000	122.490	113014.56	0.0446	P	5.4
5	☐	250.000	248.954	213619.63	0.0902	P	2.6
6	☐	500.000	505.956	380552.99	0.1830	P	3.6
7	☐	1000.000	997.616	684695.26	0.3604	P	3.7
8	☐			19479.69	0.0100	P	13.1

$$y = 3.6088E-004 * x + 3.8972E-004$$

R = 1.0000

DL = 0.3521

BEC = 1.08

Weight: <None>

Min Conc: 0

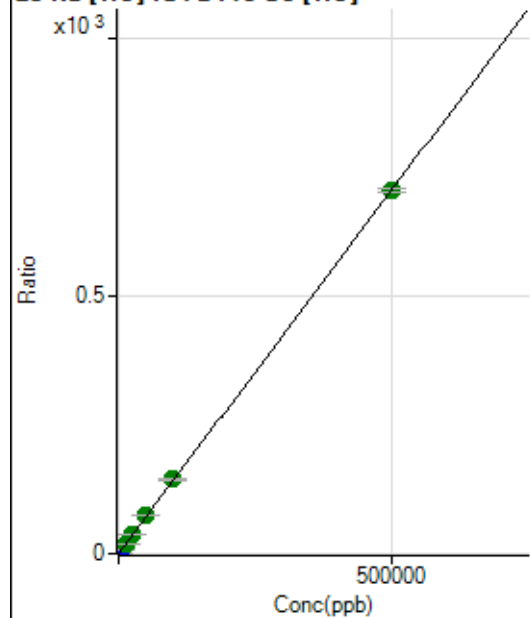
12 C [No Gas] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	4406.27	0.0137	P	1.6
2	☐	500.000	513.559	241104.29	0.7375	P	0.1
3	☐	5000.000	5139.532	2249872.94	7.2567	P	0.3
4	☐	12500.000	12766.238	5263657.70	18.0049	A	1.0
5	☐	25000.000	25603.424	9593660.28	36.0960	A	0.2
6	☐	50000.000	52235.498	17148550.61	73.6279	A	0.8
7	☐	100000.00	102304.17	32228172.48	144.1883	A	1.8
8	☐	500000.00	499277.37	186767200.4	703.6323	A	1.1

$$y = 0.0014 * x + 0.0137$$

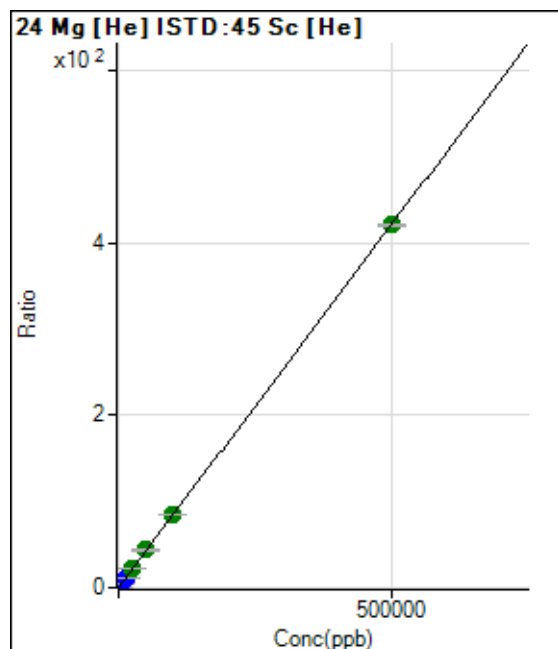
$$R = 1.0000$$

$$DL = 0.4627$$

$$BEC = 9.743$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	266.68	0.0008	P	8.0
2	☐	500.000	501.898	138640.97	0.4241	P	0.7
3	☐	5000.000	5145.665	1345614.16	4.3402	P	0.6
4	☐	12500.000	12930.384	3188010.46	10.9052	P	1.1
5	☐	25000.000	25412.990	5696210.72	21.4319	A	0.1
6	☐	50000.000	51798.802	10174549.65	43.6834	A	1.5
7	☐	100000.00	100672.84	18978264.54	84.8994	A	0.9
8	☐	500000.00	499652.68	111846018.2	421.3639	A	0.8

$$y = 8.4331\text{E-}004 * x + 8.3119\text{E-}004$$

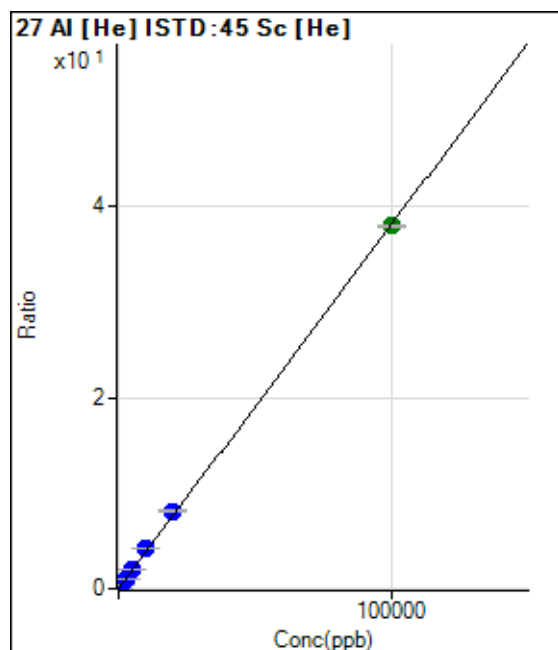
$$R = 1.0000$$

$$DL = 0.2371$$

$$BEC = 0.9856$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	103.71	0.0003	P	11.8
2	☐	20.000	22.055	2854.03	0.0087	P	0.6
3	☐	1000.000	1099.598	130035.35	0.4194	P	0.5
4	☐	2500.000	2704.355	301413.71	1.0311	P	1.2
5	☐	5000.000	5386.184	545705.08	2.0532	P	0.2
6	☐	10000.000	10938.022	971092.93	4.1692	P	0.3
7	☐	20000.000	21291.177	1813985.92	8.1152	P	1.1
8	☐	100000.00	99622.548	10078672.80	37.9702	A	0.8

$$y = 3.8114\text{E-}004 * x + 3.2331\text{E-}004$$

$$R = 0.9999$$

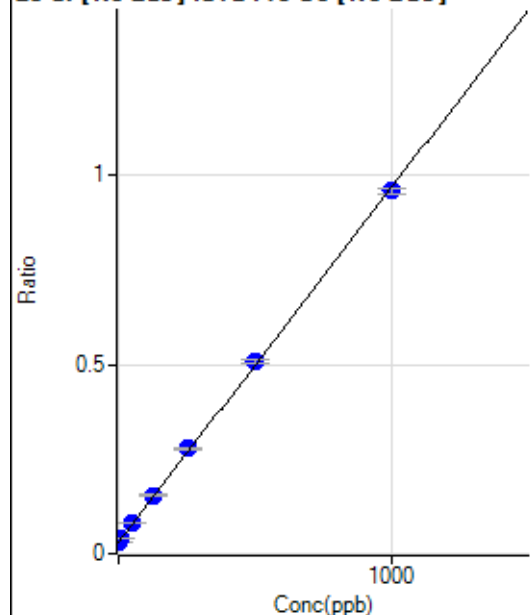
$$DL = 0.2998$$

$$BEC = 0.8483$$

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	128024.05	0.0301	P	1.0
2	☐	10.000	8.960	168403.61	0.0385	P	0.3
3	☐	50.000	56.410	353085.63	0.0830	P	1.6
4	☐	125.000	132.590	624737.86	0.1545	P	1.2
5	☐	250.000	263.330	1033228.96	0.2771	P	2.3
6	☐	500.000	509.910	1637187.02	0.5083	P	1.5
7	☐	1000.000	990.454	2821200.45	0.9590	P	1.6
8	☐			197132.99	0.0639	P	2.5

$$y = 9.3786E-004 * x + 0.0301$$

R = 0.9998

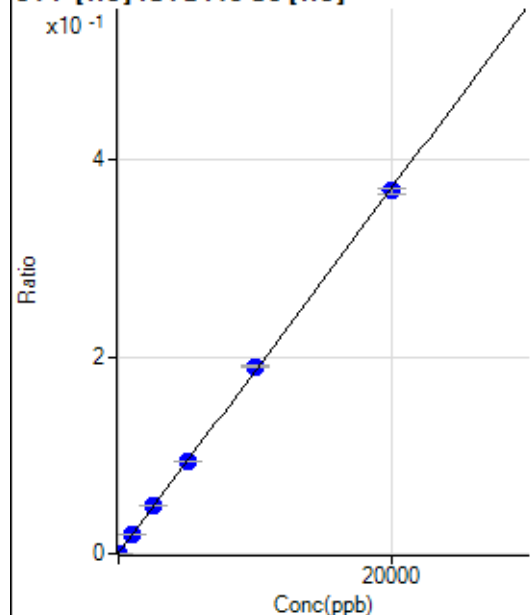
DL = 0.962

BEC = 32.12

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-2.854	86.11	0.0003	P	19.6
2	☐	0.000	2.854	122.23	0.0004	P	14.3
3	☐	1000.000	1019.618	5959.66	0.0192	P	2.3
4	☐	2500.000	2612.224	14243.24	0.0487	P	3.5
5	☐	5000.000	5032.561	24879.55	0.0936	P	1.2
6	☐	10000.000	10242.850	44299.48	0.1902	P	1.6
7	☐	20000.000	19855.426	82334.69	0.3683	P	1.9
8	☐			136.11	0.0005	P	13.6

$$y = 1.8535E-005 * x + 3.2103E-004$$

R = 0.9999

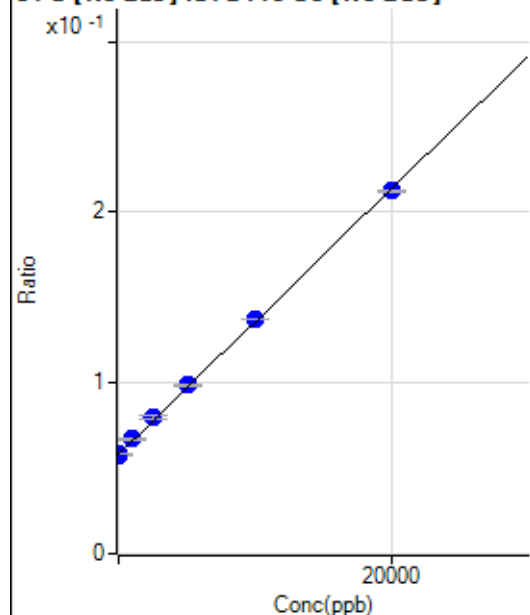
DL = 8.578

BEC = 17.32

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	-56.329	245227.88	0.0577	P	1.5
2	☐	0.000	56.329	256062.58	0.0586	P	1.4
3	☐	1000.000	1184.606	286453.49	0.0674	P	2.1
4	☐	2500.000	2771.446	322638.08	0.0797	P	2.7
5	☐	5000.000	5229.599	368622.36	0.0988	P	1.1
6	☐	10000.000	10166.890	442191.88	0.1373	P	0.4
7	☐	20000.000	19815.994	624877.25	0.2124	P	0.5
8	☐			183930.48	0.0597	P	1.0

$$y = 7.7843E-006 * x + 0.0581$$

R = 0.9998

DL = 319.9

BEC = 7468

Weight: <None>

Min Conc: 0

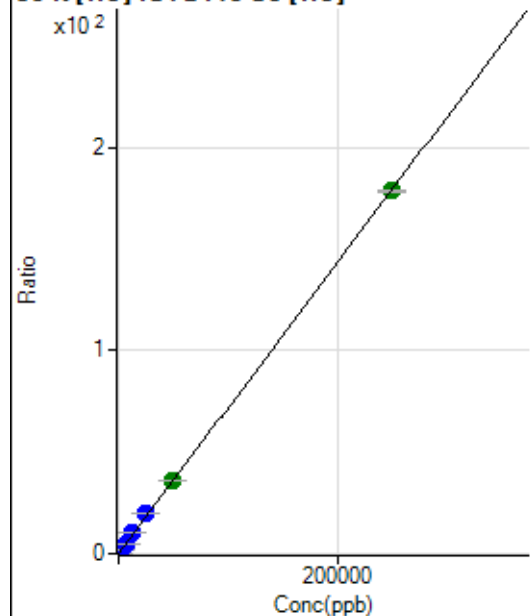
35 Cl [No Gas] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	21994.50	0.0685	P	0.8
2	☐	500.000	548.791	150816.90	0.4613	P	0.3
3	☐	2500.000	2796.538	641790.29	2.0700	P	0.1
4	☐	6250.000	6977.652	1480077.38	5.0624	P	0.4
5	☐	12500.000	13986.797	2678777.82	10.0787	P	0.2
6	☐	25000.000	28232.883	4722293.38	20.2745	P	0.4
7	☐	50000.000	49806.992	7984344.10	35.7148	A	0.2
8	☐	250000.00	249619.71	47441647.24	178.7182	A	0.3

$$y = 7.1569E-004 * x + 0.0685$$

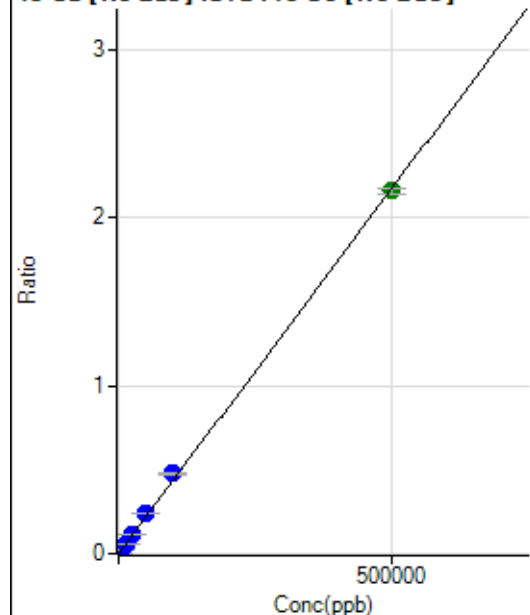
$$R = 0.9999$$

$$DL = 2.158$$

$$BEC = 95.76$$

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	130.56	0.0000	P	36.7
2	☐	500.000	517.786	9973.05	0.0023	P	5.9
3	☐	5000.000	5448.604	100810.49	0.0237	P	0.8
4	☐	12500.000	13786.434	242424.03	0.0599	P	0.6
5	☐	25000.000	27339.588	443136.06	0.1188	P	0.9
6	☐	50000.000	55334.135	774533.65	0.2405	P	0.7
7	☐	100000.00	109518.13	1400189.95	0.4759	P	0.3
8	☐	500000.00	497409.31	6664356.79	2.1613	A	1.3

$$y = 4.3451\text{E-}006 * x + 3.0742\text{E-}005$$

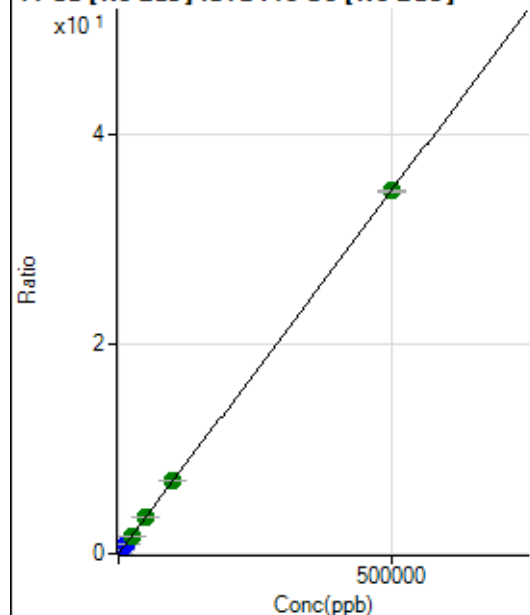
$$R = 0.9998$$

$$DL = 7.781$$

$$BEC = 7.075$$

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	3447.73	0.0008	P	3.7
2	☐	500.000	535.312	165740.23	0.0379	P	1.4
3	☐	5000.000	5447.639	1609396.52	0.3785	P	0.2
4	☐	12500.000	13652.182	3831537.11	0.9472	P	0.5
5	☐	25000.000	25076.777	6486387.25	1.7392	A	0.2
6	☐	50000.000	50740.395	11333380.46	3.5183	A	0.1
7	☐	100000.00	100541.64	20508942.47	6.9707	A	0.4
8	☐	500000.00	499780.47	106823855.8	34.6474	A	0.7

$$y = 6.9324\text{E-}005 * x + 8.1114\text{E-}004$$

$$R = 1.0000$$

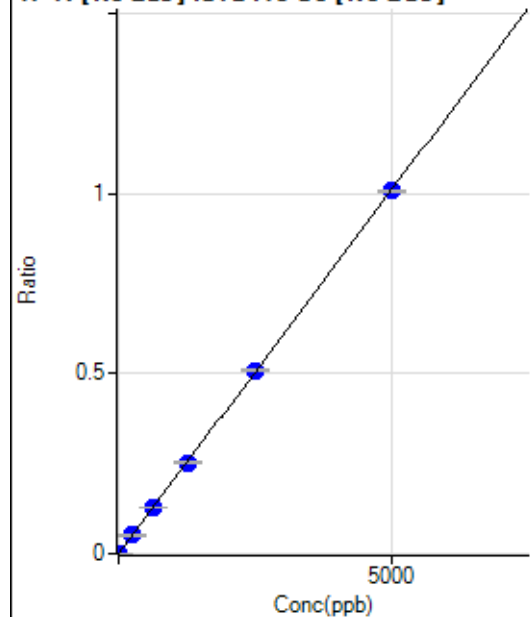
$$DL = 1.283$$

$$BEC = 11.7$$

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	61.11	0.0000	P	28.5
2	☐	5.000	5.805	5181.59	0.0012	P	0.4
3	☐	250.000	251.607	215901.45	0.0508	P	0.5
4	☐	625.000	625.598	510632.97	0.1262	P	0.5
5	☐	1250.000	1252.032	941961.53	0.2526	P	0.9
6	☐	2500.000	2521.113	1638252.82	0.5086	P	0.3
7	☐	5000.000	4988.779	2961003.67	1.0064	P	0.4
8	☐			786.15	0.0003	P	7.6

$$y = 2.0173E-004 * x + 1.4382E-005$$

$$R = 1.0000$$

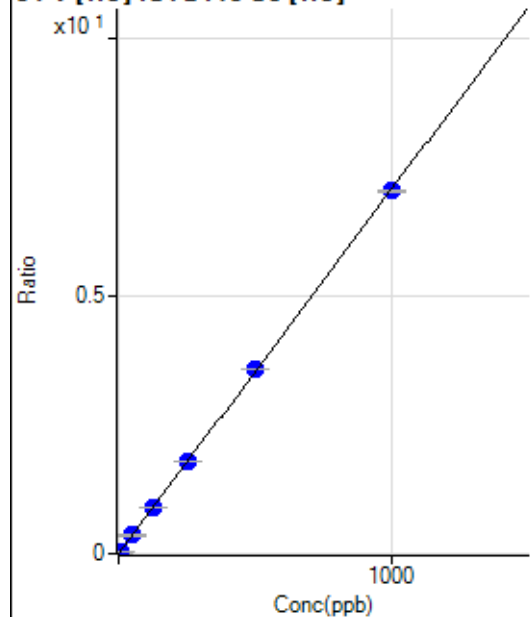
$$DL = 0.06097$$

$$BEC = 0.07129$$

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	3.33	0.0000	P	0.6
2	☐	5.000	5.110	11814.82	0.0361	P	0.5
3	☐	50.000	50.289	110248.74	0.3556	P	1.1
4	☐	125.000	125.232	258916.24	0.8855	P	0.3
5	☐	250.000	252.636	474785.88	1.7863	P	0.6
6	☐	500.000	506.781	834642.71	3.5832	P	0.3
7	☐	1000.000	995.907	1574110.32	7.0417	P	0.6
8	☐			205.56	0.0008	P	15.1

$$y = 0.0071 * x + 1.0377E-005$$

$$R = 1.0000$$

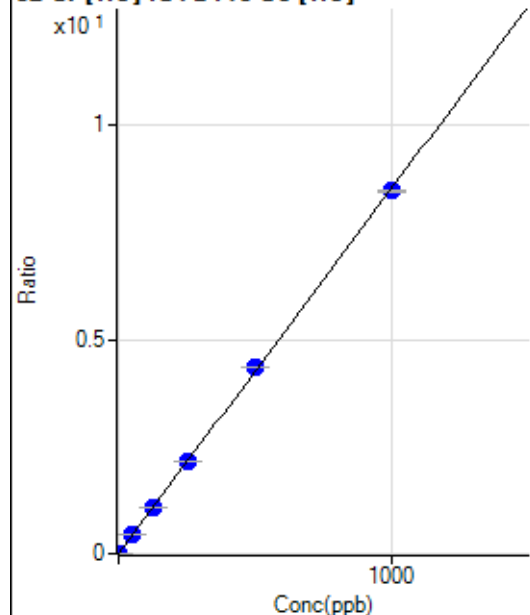
$$DL = 2.731E-05$$

$$BEC = 0.001468$$

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	755.58	0.0024	P	2.7
2	☐	2.000	2.018	6387.01	0.0195	P	1.8
3	☐	50.000	50.796	134821.44	0.4348	P	0.3
4	☐	125.000	126.479	315528.73	1.0792	P	0.5
5	☐	250.000	253.980	575370.34	2.1648	P	0.4
6	☐	500.000	510.221	1012412.96	4.3464	P	0.3
7	☐	1000.000	993.670	1891773.84	8.4625	P	0.4
8	☐			4699.68	0.0177	P	2.7

$$y = 0.0085 * x + 0.0024$$

$$R = 0.9999$$

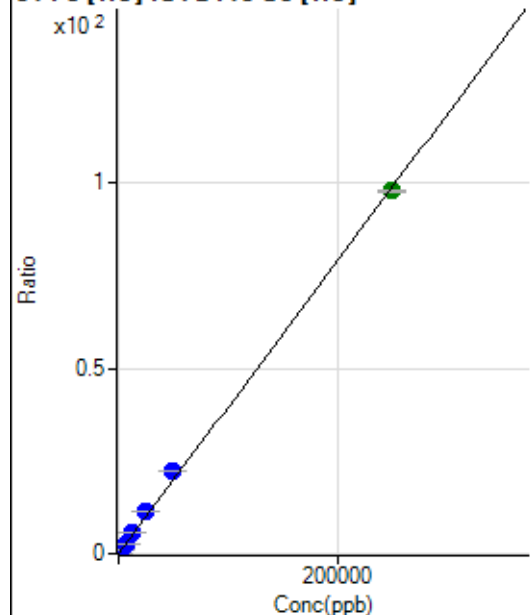
$$DL = 0.02227$$

$$BEC = 0.2766$$

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	800.85	0.0025	P	12.6
2	☐	50.000	57.281	8204.04	0.0251	P	1.0
3	☐	2500.000	2847.511	349076.71	1.1259	P	0.7
4	☐	6250.000	7113.858	821234.36	2.8090	P	0.9
5	☐	12500.000	14340.347	1504331.45	5.6599	P	0.6
6	☐	25000.000	28891.093	2655294.08	11.4004	P	0.4
7	☐	50000.000	56377.521	4972234.14	22.2441	P	1.0
8	☐	250000.00	248218.29	25993985.99	97.9276	A	0.7

$$y = 3.9451E-004 * x + 0.0025$$

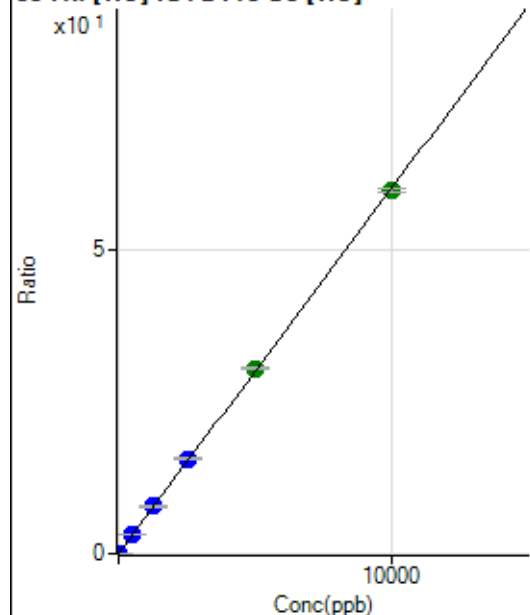
$$R = 0.9996$$

$$DL = 2.389$$

$$BEC = 6.328$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	117.78	0.0004	P	24.1
2	☐	1.000	1.063	2211.30	0.0068	P	5.1
3	☐	500.000	517.092	964880.05	3.1121	P	0.3
4	☐	1250.000	1295.069	2278516.56	7.7938	P	1.0
5	☐	2500.000	2604.566	4165932.65	15.6741	P	0.2
6	☐	5000.000	5066.517	7101130.73	30.4897	A	0.8
7	☐	10000.000	9934.112	13362872.58	59.7819	A	1.2
8	☐			16179.00	0.0610	P	1.9

$$y = 0.0060 * x + 3.6665E-004$$

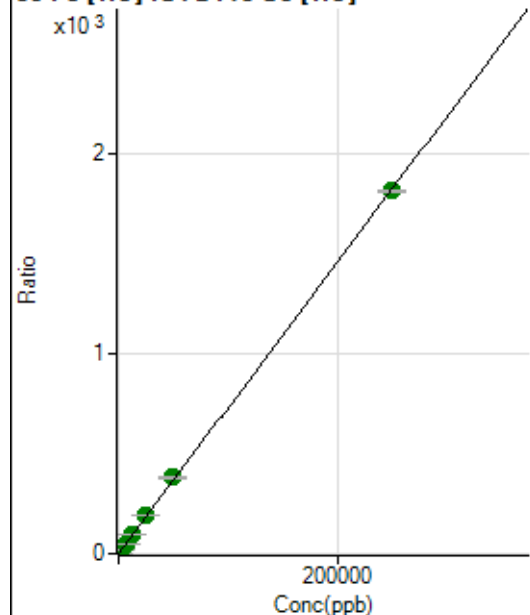
$$R = 0.9999$$

$$DL = 0.04411$$

$$BEC = 0.06093$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	4348.86	0.0136	P	1.4
2	☐	50.000	57.117	140031.13	0.4283	P	0.9
3	☐	2500.000	2634.238	5935303.43	19.1436	A	0.2
4	☐	6250.000	6592.588	14000711.54	47.8893	A	1.1
5	☐	12500.000	13222.944	25526200.57	96.0394	A	0.4
6	☐	25000.000	26635.422	45056363.05	193.4417	A	0.3
7	☐	50000.000	52211.456	84753023.19	379.1765	A	1.6
8	☐	250000.00	249348.11	480657436.6	1,810.795	A	0.7

$$y = 0.0073 * x + 0.0136$$

$$R = 0.9999$$

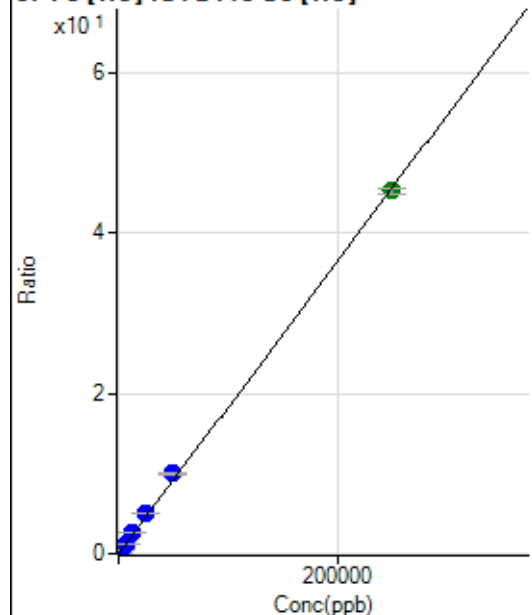
$$DL = 0.07784$$

$$BEC = 1.866$$

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	92.60	0.0003	P	61.1
2	☐	50.000	56.798	3474.55	0.0106	P	4.5
3	☐	2500.000	2772.741	156585.01	0.5051	P	0.8
4	☐	6250.000	6933.959	369121.59	1.2626	P	1.0
5	☐	12500.000	13954.903	675296.88	2.5407	P	0.3
6	☐	25000.000	28119.628	1192353.27	5.1194	P	0.6
7	☐	50000.000	54729.023	2227241.17	9.9635	P	0.7
8	☐	250000.00	248649.66	12014318.32	45.2662	A	1.4

$$y = 1.8205E-004 * x + 2.8810E-004$$

$$R = 0.9998$$

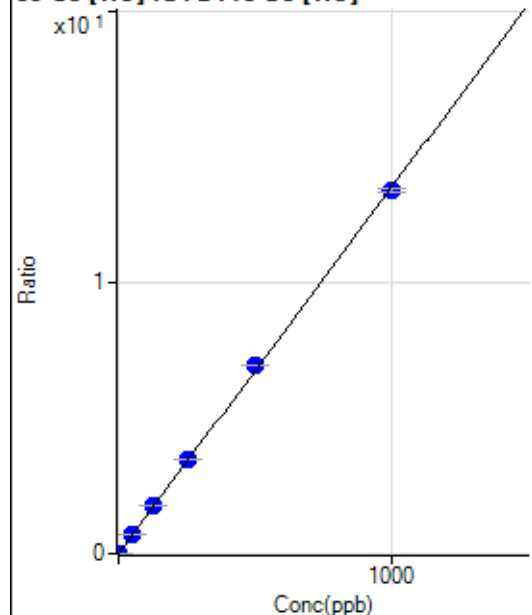
$$DL = 2.9$$

$$BEC = 1.583$$

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	42.22	0.0001	P	44.1
2	☐	1.000	1.040	4643.00	0.0142	P	2.7
3	☐	50.000	52.168	218793.66	0.7057	P	0.4
4	☐	125.000	129.681	512795.00	1.7541	P	0.9
5	☐	250.000	257.528	925774.57	3.4831	P	0.6
6	☐	500.000	513.493	1617593.73	6.9450	P	0.3
7	☐	1000.000	990.678	2995083.84	13.3989	P	1.0
8	☐			8553.69	0.0322	P	2.2

$$y = 0.0135 * x + 1.3179E-004$$

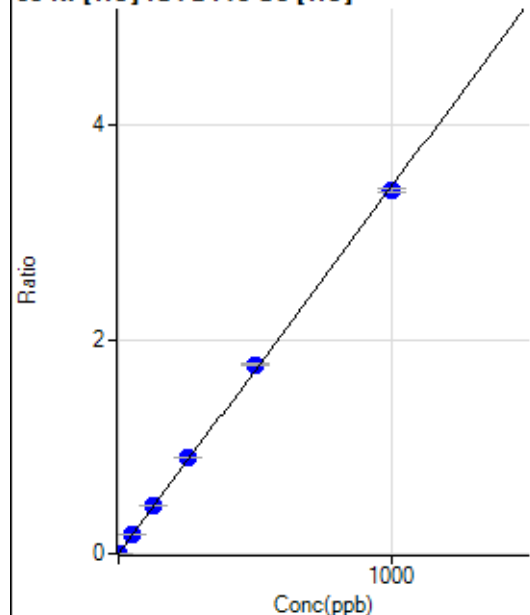
$$R = 0.9998$$

$$DL = 0.0129$$

$$BEC = 0.009744$$

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	65.56	0.0002	P	25.6
2	☐	1.000	1.099	1297.85	0.0040	P	1.5
3	☐	50.000	53.079	56435.68	0.1820	P	0.4
4	☐	125.000	131.364	131600.22	0.4502	P	1.6
5	☐	250.000	261.622	238260.02	0.8964	P	0.8
6	☐	500.000	515.545	411401.99	1.7662	P	0.3
7	☐	1000.000	988.372	756843.05	3.3859	P	1.1
8	☐			2540.24	0.0096	P	4.5

$$y = 0.0034 * x + 2.0406E-004$$

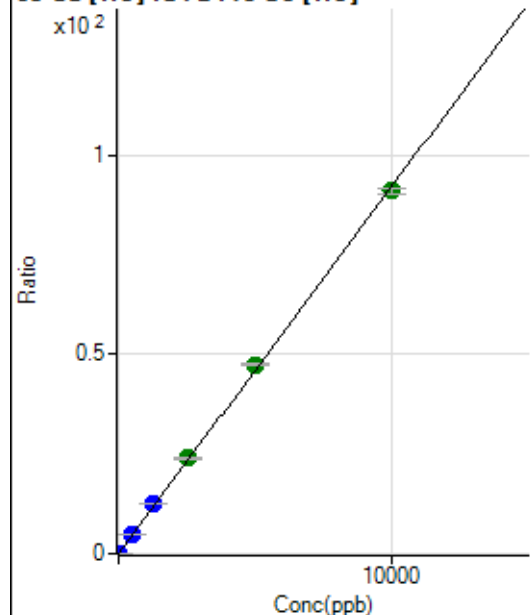
$$R = 0.9997$$

$$DL = 0.04566$$

$$BEC = 0.05957$$

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	621.13	0.0019	P	8.9
2	☐	2.000	2.045	6787.20	0.0208	P	0.3
3	☐	500.000	546.176	1559288.87	5.0293	P	0.4
4	☐	1250.000	1346.242	3623244.46	12.3936	P	0.9
5	☐	2500.000	2601.897	6366220.60	23.9514	A	1.1
6	☐	5000.000	5144.648	11030698.72	47.3564	A	0.7
7	☐	10000.000	9887.863	20344633.73	91.0158	A	1.4
8	☐			5604.45	0.0211	P	3.9

$$y = 0.0092 * x + 0.0019$$

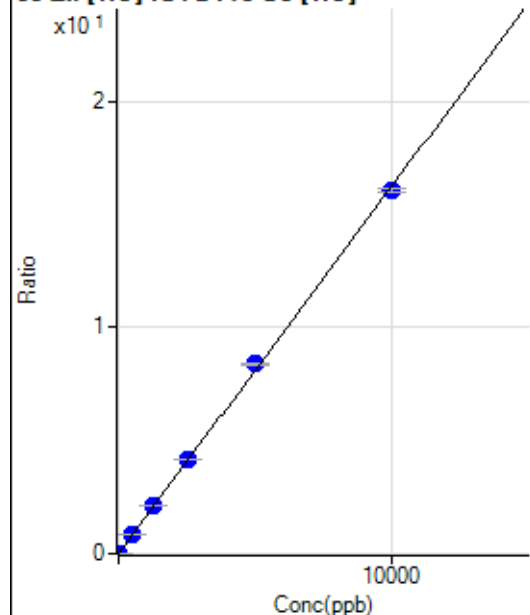
$$R = 0.9998$$

$$DL = 0.05597$$

$$BEC = 0.2103$$

Weight: <None>

Min Conc: 0

⁶⁶Zn [He] ISTD: ⁴⁵Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	321.12	0.0010	P	5.2
2	☐	2.000	3.144	1994.61	0.0061	P	3.5
3	☐	500.000	515.009	259426.16	0.8368	P	0.5
4	☐	1250.000	1299.771	616919.51	2.1103	P	1.1
5	☐	2500.000	2578.020	1112166.33	4.1846	P	0.3
6	☐	5000.000	5174.931	1956147.56	8.3989	P	0.6
7	☐	10000.000	9886.057	3586340.75	16.0440	P	1.0
8	☐			6737.17	0.0254	P	1.5

$$y = 0.0016 * x + 0.0010$$

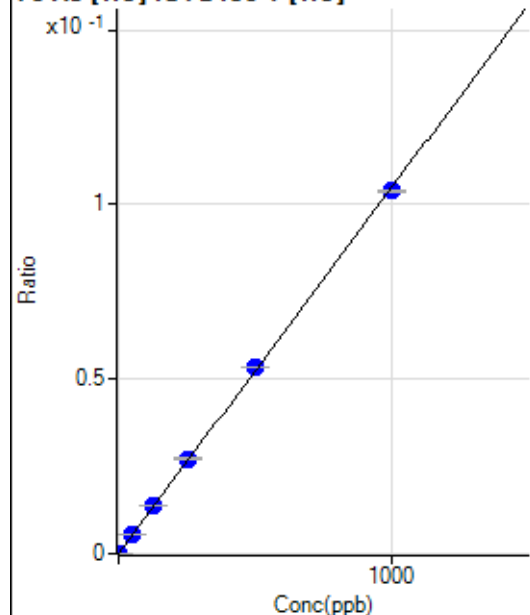
$$R = 0.9997$$

$$DL = 0.0953$$

$$BEC = 0.6165$$

Weight: <None>

Min Conc: 0

⁷⁵As [He] ISTD: ⁸⁹Y [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	4.32	0.0000	P	89.2
2	☐	1.000	1.020	302.47	0.0001	P	7.2
3	☐	50.000	52.494	14649.38	0.0055	P	2.6
4	☐	125.000	131.013	34676.98	0.0137	P	0.2
5	☐	250.000	259.333	63205.98	0.0272	P	1.1
6	☐	500.000	510.559	110405.99	0.0535	P	0.7
7	☐	1000.000	991.511	206168.22	0.1039	P	0.4
8	☐			70.37	0.0000	P	4.6

$$y = 1.0477E-004 * x + 1.5812E-006$$

$$R = 0.9999$$

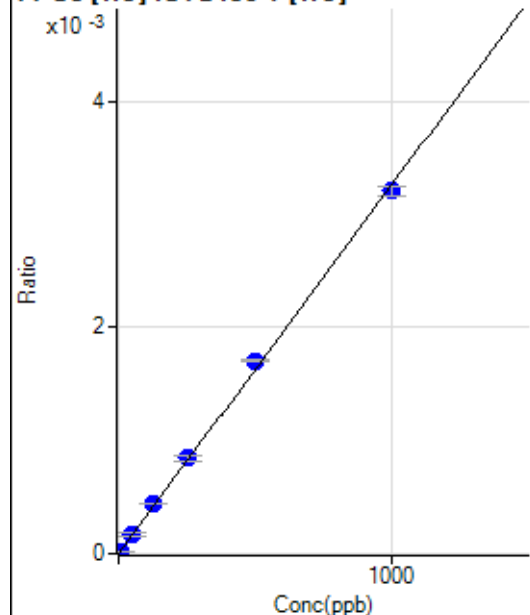
$$DL = 0.04037$$

$$BEC = 0.01509$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	5.129	46.67	0.0000	P	18.0
3	☐	50.000	53.083	461.13	0.0002	P	16.3
4	☐	125.000	135.428	1115.61	0.0004	P	0.4
5	☐	250.000	259.248	1966.82	0.0008	P	6.7
6	☐	500.000	523.578	3523.79	0.0017	P	1.4
7	☐	1000.000	984.441	6370.35	0.0032	P	2.5
8	☐			2.22	0.0000	P	86.6

$$y = 3.2611\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9995$$

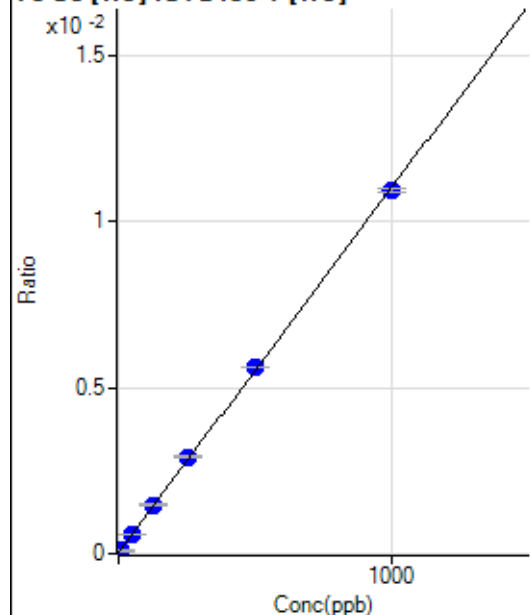
$$DL = 0$$

$$BEC = 0$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	85.19	0.0000	P	12.7
2	☐	5.000	5.185	245.06	0.0001	P	10.5
3	☐	50.000	50.411	1556.88	0.0006	P	4.7
4	☐	125.000	131.527	3725.80	0.0015	P	3.2
5	☐	250.000	262.787	6784.33	0.0029	P	1.6
6	☐	500.000	508.731	11592.31	0.0056	P	0.7
7	☐	1000.000	991.601	21669.84	0.0109	P	0.9
8	☐			58.03	0.0000	P	1.8

$$y = 1.0981\text{E-}005 * x + 3.1059\text{E-}005$$

$$R = 0.9998$$

$$DL = 1.079$$

$$BEC = 2.829$$

Weight: <None>

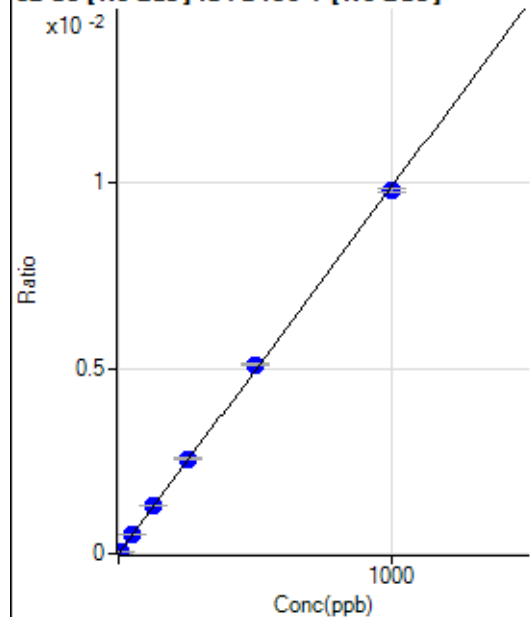
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			7396.53		P	4.2
2	☐			7693.93		P	4.8
3	☐			7182.55		P	5.5
4	☐			6648.95		P	7.4
5	☐			6054.21		P	7.4
6	☐			4734.22		P	3.2
7	☐			3920.09		P	4.5
8	☐			4431.36		P	6.8

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			56.72		P	81.5
2	☐			40.04		P	43.3
3	☐			33.37		P	45.8
4	☐			30.03		P	66.7
5	☐			33.37		P	17.3
6	☐			20.02		P	86.6
7	☐			30.03		P	57.7
8	☐			23.36		P	49.5

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	-38.69	0.0000	P	-137.
2	☐	5.000	5.474	636.33	0.0001	P	8.6
3	☐	50.000	52.447	6280.62	0.0005	P	0.6
4	☐	125.000	130.815	15031.94	0.0013	P	3.0
5	☐	250.000	259.381	27989.18	0.0026	P	0.4
6	☐	500.000	515.216	49303.05	0.0051	P	1.0
7	☐	1000.000	989.195	88226.90	0.0098	P	1.0
8	☐			-14.16	0.0000	P	-59.8

$$y = 9.9010E-006 * x - 3.1433E-006$$

$$R = 0.9998$$

$$DL = 1.311$$

$$BEC = -0.3175$$

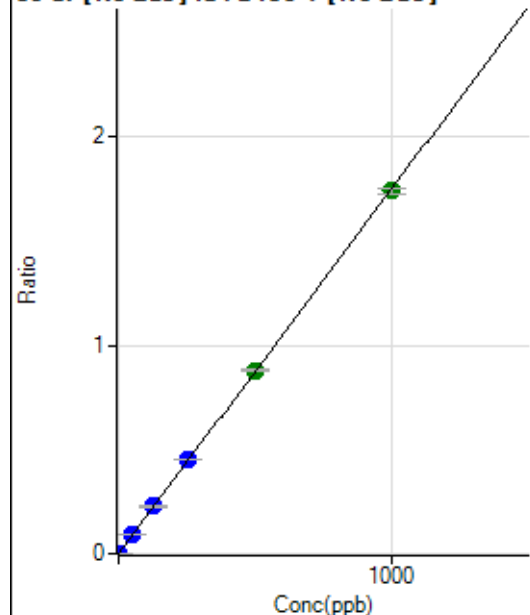
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐			477.79		P	9.6
2	☐			471.12		P	10.0
3	☐			463.35		P	13.3
4	☐			435.57		P	6.4
5	☐			383.34		P	12.1
6	☐			323.34		P	10.9
7	☐			314.45		P	15.2
8	☐			346.68		P	3.5

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	702.81	0.0001	P	19.1
2	☐	1.000	0.181	4648.12	0.0004	P	4.4
3	☐	50.000	51.292	1091822.51	0.0897	P	0.9
4	☐	125.000	129.443	2634314.19	0.2263	P	0.7
5	☐	250.000	259.905	4958385.48	0.4544	P	0.6
6	☐	500.000	503.625	8515043.51	0.8805	A	1.1
7	☐	1000.000	995.092	15675561.98	1.7396	A	1.3
8	☐			7040.80	0.0008	P	2.9

$$y = 0.0017 * x + 5.7222E-005$$

$$R = 0.9999$$

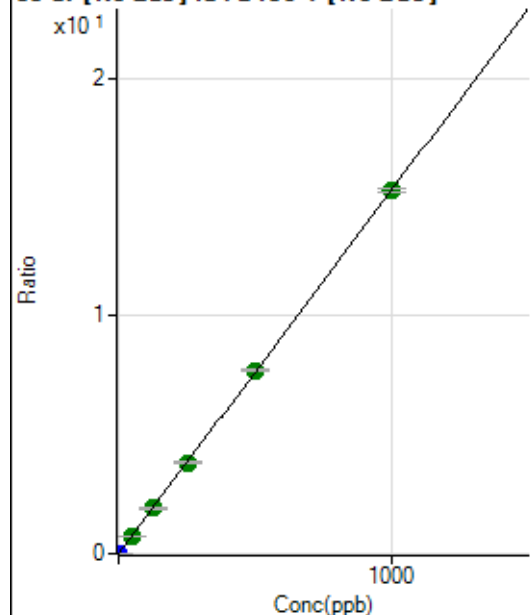
$$DL = 0.01879$$

$$BEC = 0.03273$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	150.00	0.0000	P	20.1
2	☐	1.000	0.176	33759.71	0.0027	P	1.5
3	☐	50.000	49.431	9202484.41	0.7563	A	1.0
4	☐	125.000	124.356	22142284.00	1.9025	A	0.9
5	☐	250.000	250.252	41775615.51	3.8286	A	1.0
6	☐	500.000	503.709	74534308.61	7.7063	A	0.7
7	☐	1000.000	998.192	137612560.0	15.2714	A	1.0
8	☐			56148.76	0.0061	P	0.7

$$y = 0.0153 * x + 1.2210E-005$$

$$R = 1.0000$$

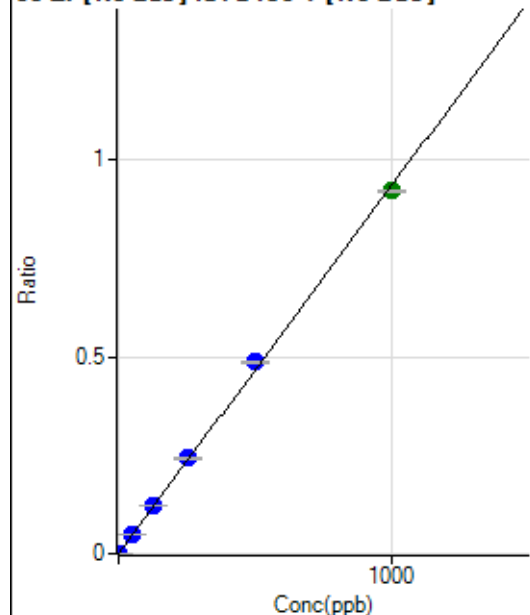
$$DL = 0.0004812$$

$$BEC = 0.0007981$$

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	608.36	0.0000	P	6.5
2	☐	1.000	1.602	19291.14	0.0015	P	0.2
3	☐	50.000	51.451	586112.45	0.0482	P	0.5
4	☐	125.000	129.437	1409482.55	0.1211	P	0.9
5	☐	250.000	259.699	2650495.74	0.2429	P	1.1
6	☐	500.000	521.447	4716767.12	0.4877	P	0.6
7	☐	1000.000	986.224	8312476.66	0.9223	A	0.7
8	☐			2555.86	0.0003	P	5.7

$$y = 9.3518\text{E-}004 * x + 4.9510\text{E-}005$$

$$R = 0.9996$$

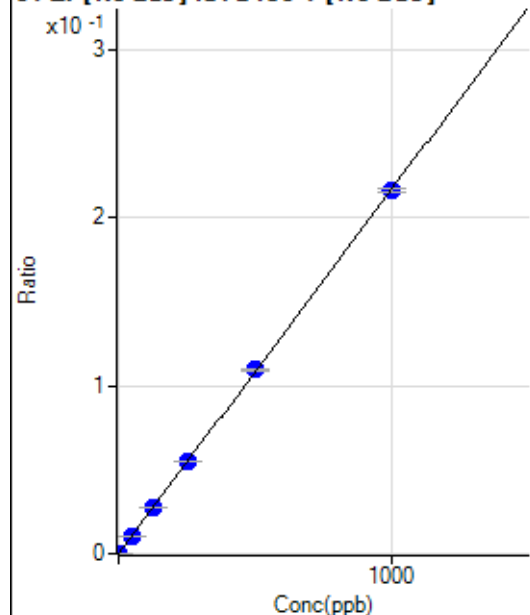
$$DL = 0.01037$$

$$BEC = 0.05294$$

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	138.89	0.0000	P	45.3
2	☐	1.000	1.558	4356.33	0.0003	P	0.4
3	☐	50.000	49.642	131232.58	0.0108	P	1.3
4	☐	125.000	125.433	316946.27	0.0272	P	1.5
5	☐	250.000	252.426	597831.61	0.0548	P	1.1
6	☐	500.000	506.371	1062818.22	0.1099	P	1.1
7	☐	1000.000	996.171	1948172.05	0.2162	P	1.0
8	☐			566.70	0.0001	P	9.9

$$y = 2.1701\text{E-}004 * x + 1.1299\text{E-}005$$

$$R = 1.0000$$

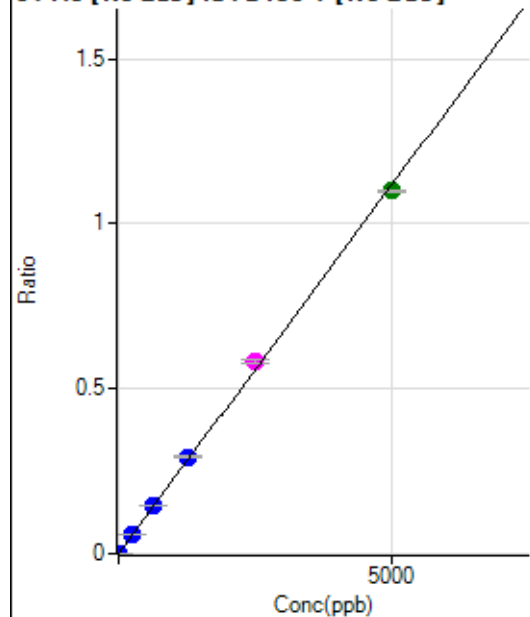
$$DL = 0.07072$$

$$BEC = 0.05206$$

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	263.90	0.0000	P	13.9
2	☐	5.000	6.471	18273.19	0.0015	P	2.6
3	☐	250.000	259.200	704343.42	0.0579	P	0.4
4	☐	625.000	653.652	1698587.09	0.1459	P	0.5
5	☐	1250.000	1308.955	3188273.86	0.2922	P	1.5
6	☐	2500.000	2614.720	5644433.63	0.5837	M	1.8
7	☐	5000.000	4923.858	9905000.74	1.0992	A	0.8
8	☐			2508.62	0.0003	P	8.8

$$y = 2.2323\text{E-}004 * x + 2.1474\text{E-}005$$

$$R = 0.9995$$

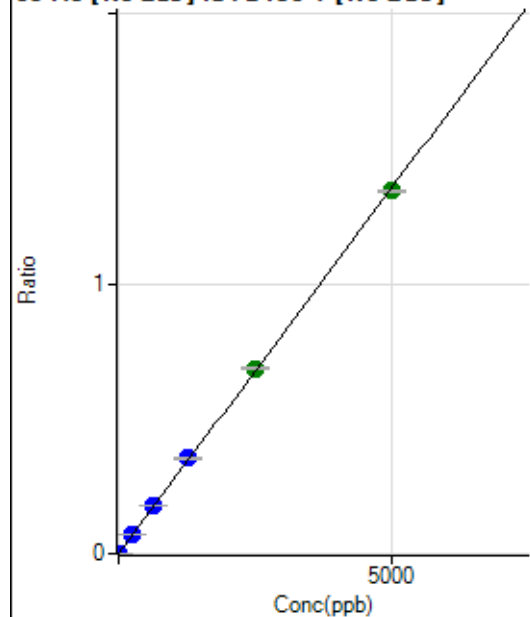
$$DL = 0.04021$$

$$BEC = 0.0962$$

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	25.00	0.0000	P	33.7
2	☐	5.000	5.961	20142.35	0.0016	P	1.5
3	☐	250.000	260.313	857478.56	0.0705	P	0.4
4	☐	625.000	654.117	2060822.40	0.1771	P	0.7
5	☐	1250.000	1310.062	3869252.69	0.3546	P	1.2
6	☐	2500.000	2532.740	6630546.41	0.6856	A	0.7
7	☐	5000.000	4964.458	12109736.90	1.3438	A	0.7
8	☐			3083.76	0.0003	P	7.8

$$y = 2.7069\text{E-}004 * x + 2.0366\text{E-}006$$

$$R = 0.9999$$

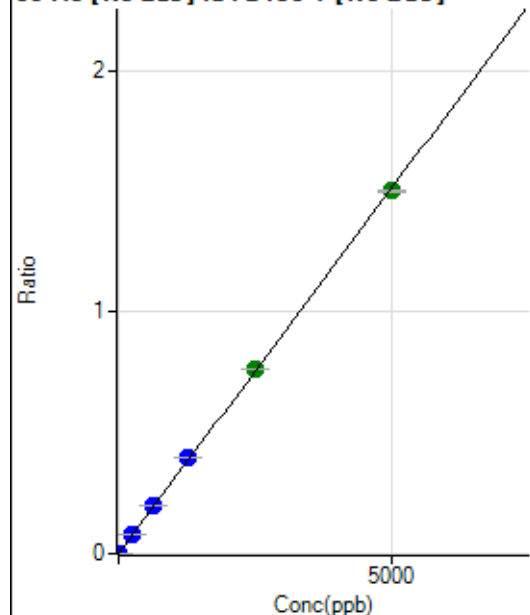
$$DL = 0.007596$$

$$BEC = 0.007524$$

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	52.78	0.0000	P	24.2
2	☐	5.000	6.046	22824.27	0.0018	P	1.6
3	☐	250.000	260.254	956881.79	0.0786	P	0.2
4	☐	625.000	653.948	2299693.37	0.1976	P	0.4
5	☐	1250.000	1311.125	4322301.57	0.3961	P	1.0
6	☐	2500.000	2528.715	7389413.19	0.7640	A	0.4
7	☐	5000.000	4966.229	13522094.40	1.5004	A	0.3
8	☐			3992.33	0.0004	P	2.2

$$y = 3.0213\text{E-}004 * x + 4.2960\text{E-}006$$

$$R = 0.9999$$

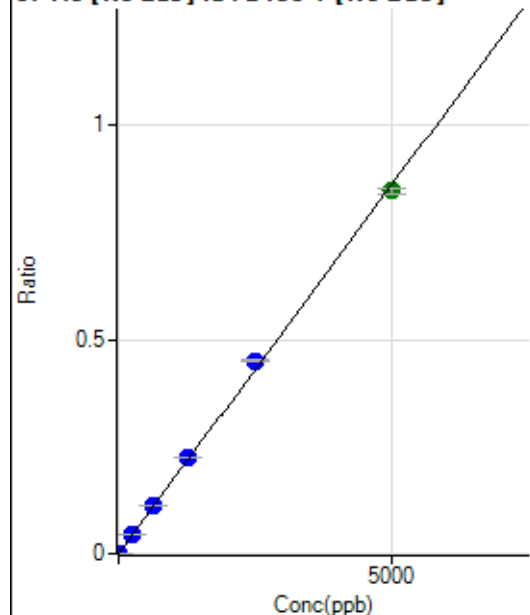
$$DL = 0.01031$$

$$BEC = 0.01422$$

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	8.33	0.0000	P	100.2
2	☐	5.000	5.952	12775.44	0.0010	P	2.4
3	☐	250.000	258.664	541624.85	0.0445	P	0.0
4	☐	625.000	648.773	1299501.80	0.1116	P	0.6
5	☐	1250.000	1301.946	2444440.96	0.2240	P	1.0
6	☐	2500.000	2620.768	4361433.00	0.4510	P	0.8
7	☐	5000.000	4923.224	7634466.40	0.8472	A	1.3
8	☐			1730.72	0.0002	P	9.2

$$y = 1.7207\text{E-}004 * x + 6.7794\text{E-}007$$

$$R = 0.9995$$

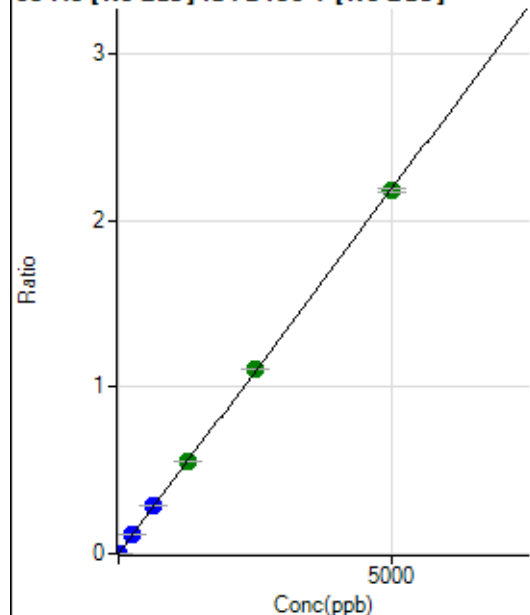
$$DL = 0.01185$$

$$BEC = 0.00394$$

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	22.22	0.0000	P	22.0
2	☐	5.000	6.042	33033.27	0.0027	P	2.7
3	☐	250.000	260.726	1390646.01	0.1143	P	0.5
4	☐	625.000	658.538	3359729.63	0.2886	P	0.8
5	☐	1250.000	1263.001	6040590.24	0.5536	A	0.5
6	☐	2500.000	2531.723	10732672.98	1.1097	A	0.5
7	☐	5000.000	4976.159	19654924.05	2.1811	A	1.2
8	☐			4286.89	0.0005	P	8.0

$$y = 4.3831E-004 * x + 1.8099E-006$$

$$R = 1.0000$$

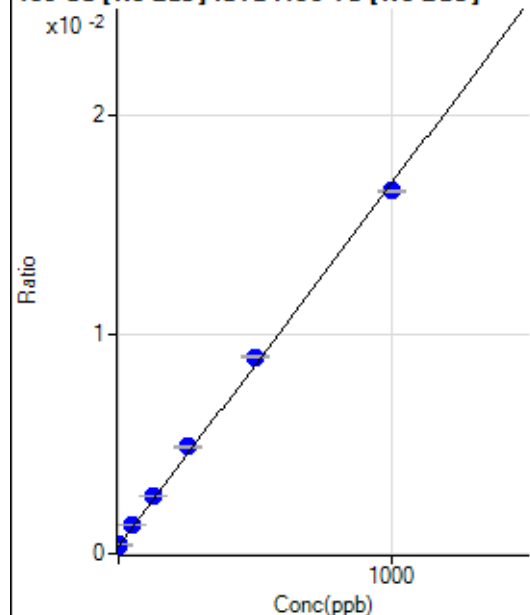
$$DL = 0.002723$$

$$BEC = 0.004129$$

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	4164.60	0.0003	P	6.6
2	☐	1.000	3.945	5056.58	0.0004	P	4.5
3	☐	50.000	59.621	15984.36	0.0013	P	2.5
4	☐	125.000	139.362	31432.46	0.0026	P	1.0
5	☐	250.000	274.101	55623.10	0.0049	P	1.7
6	☐	500.000	522.948	95712.98	0.0090	P	1.1
7	☐	1000.000	980.222	170403.40	0.0165	P	0.2
8	☐			3725.59	0.0004	P	2.4

$$y = 1.6516E-005 * x + 3.4437E-004$$

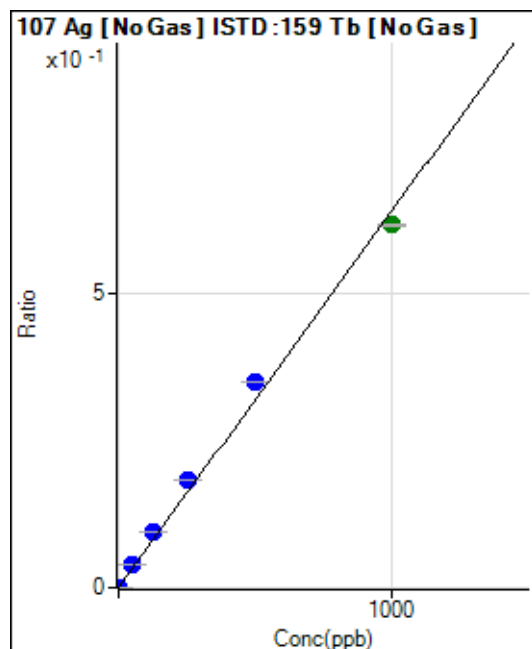
$$R = 0.9993$$

$$DL = 4.143$$

$$BEC = 20.85$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	62.22	0.0000	P	37.2
2	☐	1.000	1.166	9241.23	0.0007	P	2.7
3	☐	50.000	61.500	471600.39	0.0392	P	1.1
4	☐	125.000	148.104	1121662.31	0.0944	P	0.8
5	☐	250.000	287.298	2091273.79	0.1832	P	0.5
6	☐	500.000	545.695	3707314.45	0.3479	P	0.3
7	☐	1000.000	964.365	6336520.56	0.6148	A	0.4
8	☐			1537.34	0.0002	P	1.9

$$y = 6.3754\text{E-}004 * x + 5.1498\text{E-}006$$

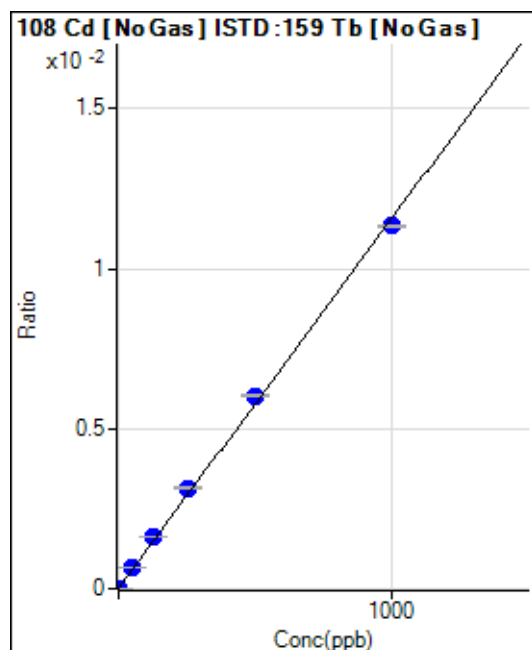
$$R = 0.9975$$

$$DL = 0.009022$$

$$BEC = 0.008078$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	43.05	0.0000	P	20.1
2	☐	1.000	0.997	186.11	0.0000	P	11.2
3	☐	50.000	58.191	8124.63	0.0007	P	3.1
4	☐	125.000	139.548	19186.72	0.0016	P	2.8
5	☐	250.000	272.510	35971.84	0.0032	P	1.1
6	☐	500.000	522.103	64287.42	0.0060	P	0.8
7	☐	1000.000	981.093	116797.95	0.0113	P	0.8
8	☐			62.50	0.0000	P	48.1

$$y = 1.1548\text{E-}005 * x + 3.5576\text{E-}006$$

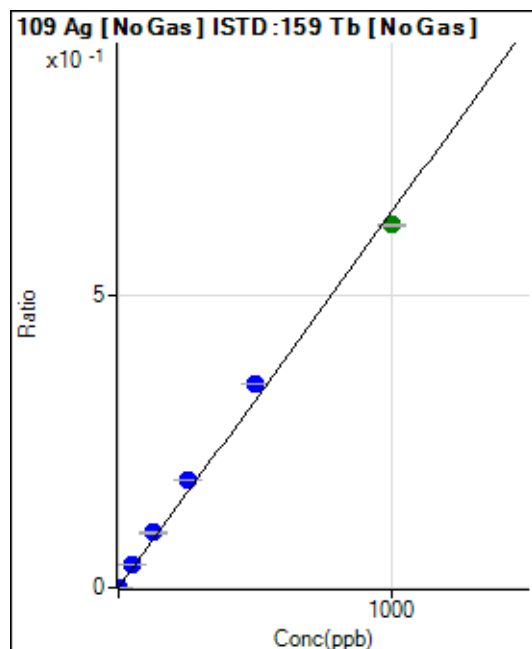
$$R = 0.9993$$

$$DL = 0.1854$$

$$BEC = 0.3081$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	13.89	0.0000	P	35.5
2	☐	1.000	1.146	9114.27	0.0007	P	0.9
3	☐	50.000	60.251	465869.40	0.0387	P	0.2
4	☐	125.000	147.121	1123592.73	0.0946	P	1.5
5	☐	250.000	286.367	2101953.95	0.1841	P	0.5
6	☐	500.000	541.626	3710593.05	0.3482	P	0.3
7	☐	1000.000	966.817	6406163.99	0.6216	A	0.3
8	☐			1600.13	0.0002	P	7.0

$$y = 6.4292\text{E-}004 * x + 1.1511\text{E-}006$$

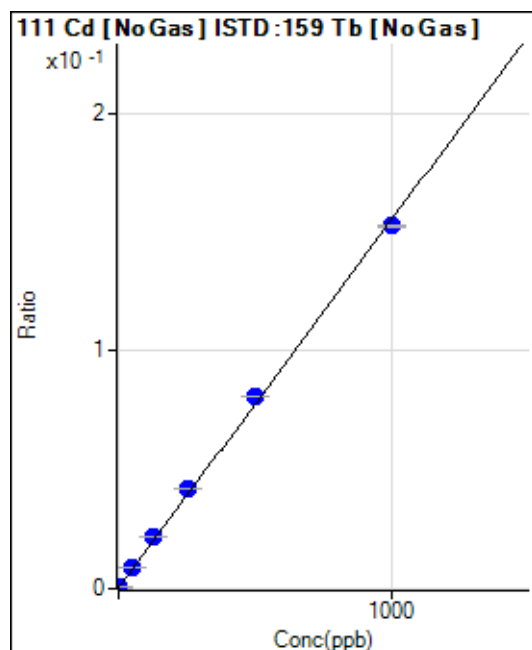
$$R = 0.9978$$

$$DL = 0.001905$$

$$BEC = 0.00179$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2907.31	0.0002	P	6.3
2	☐	1.000	1.258	5373.38	0.0004	P	3.4
3	☐	50.000	56.561	108196.15	0.0090	P	1.2
4	☐	125.000	137.672	256025.17	0.0216	P	0.8
5	☐	250.000	269.453	479006.44	0.0420	P	0.3
6	☐	500.000	519.066	858830.59	0.0806	P	0.3
7	☐	1000.000	983.691	1571960.58	0.1525	P	0.4
8	☐			2919.73	0.0003	P	3.6

$$y = 1.5481\text{E-}004 * x + 2.4040\text{E-}004$$

$$R = 0.9995$$

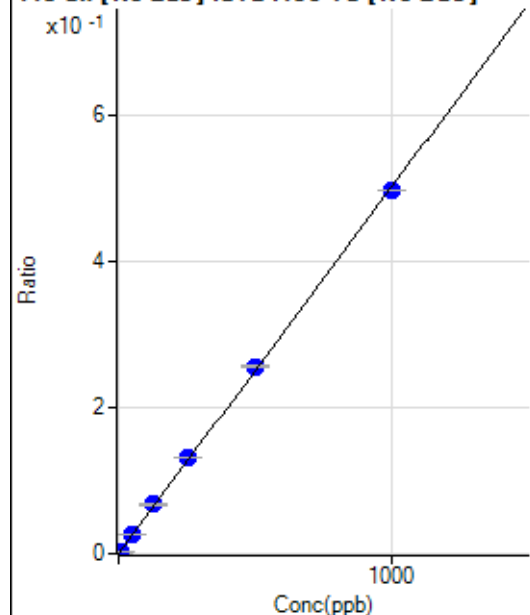
$$DL = 0.2947$$

$$BEC = 1.553$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1052.85	0.0001	P	2.7
2	☐	5.000	5.956	37954.63	0.0031	P	2.6
3	☐	50.000	54.312	328634.56	0.0273	P	1.5
4	☐	125.000	134.052	799673.73	0.0673	P	0.7
5	☐	250.000	264.339	1514631.38	0.1327	P	0.3
6	☐	500.000	509.904	2726099.98	0.2558	P	1.1
7	☐	1000.000	990.111	5118718.43	0.4967	P	0.2
8	☐			2378.04	0.0002	P	7.0

$$y = 5.0154\text{E-}004 * x + 8.7017\text{E-}005$$

$$R = 0.9998$$

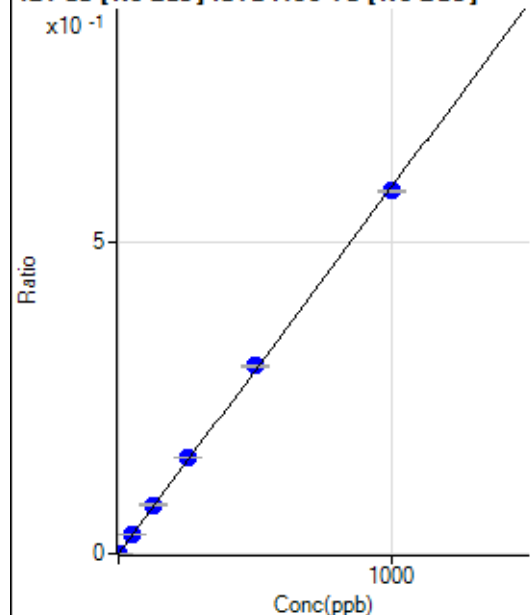
$$DL = 0.0141$$

$$BEC = 0.1735$$

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	97.22	0.0000	P	21.5
2	☐	2.000	2.091	15314.18	0.0012	P	2.6
3	☐	50.000	53.248	377467.30	0.0314	P	0.3
4	☐	125.000	132.341	926569.18	0.0780	P	2.5
5	☐	250.000	262.117	1763548.35	0.1545	P	0.6
6	☐	500.000	512.188	3216344.54	0.3018	P	1.1
7	☐	1000.000	989.797	6011435.64	0.5833	P	0.5
8	☐			3439.40	0.0003	P	5.5

$$y = 5.8929\text{E-}004 * x + 8.0338\text{E-}006$$

$$R = 0.9998$$

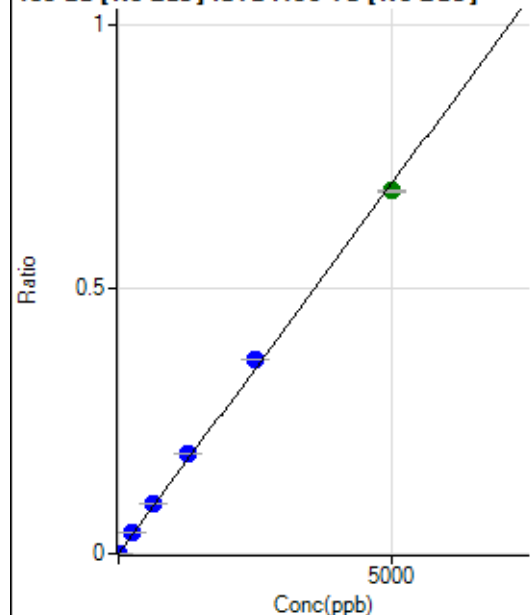
$$DL = 0.008809$$

$$BEC = 0.01363$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	50.00	0.0000	P	17.6
2	☐	10.000	10.831	18746.40	0.0015	P	1.3
3	☐	250.000	274.450	461474.30	0.0384	P	0.7
4	☐	625.000	671.459	1115102.23	0.0939	P	1.1
5	☐	1250.000	1344.139	2145374.20	0.1879	P	0.5
6	☐	2500.000	2627.099	3913395.53	0.3673	P	0.7
7	☐	5000.000	4905.884	7068302.07	0.6858	A	0.4
8	☐			2980.96	0.0003	P	4.5

$$y = 1.3980E-004 * x + 4.1375E-006$$

$$R = 0.9993$$

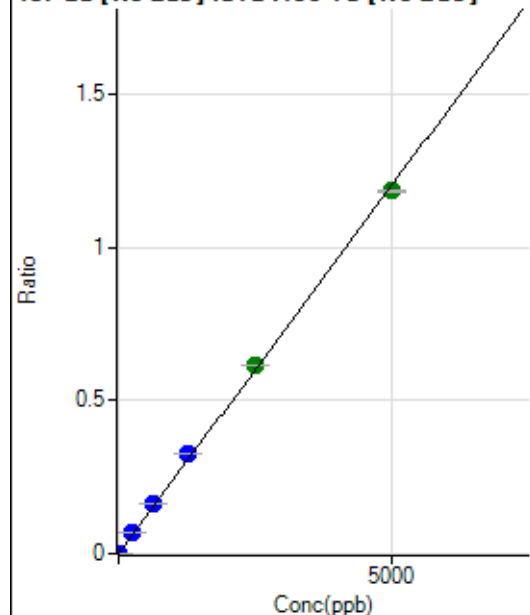
$$DL = 0.01564$$

$$BEC = 0.0296$$

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	33.33	0.0000	P	25.9
2	☐	10.000	11.177	33167.88	0.0027	P	3.6
3	☐	250.000	277.495	801268.08	0.0666	P	0.4
4	☐	625.000	681.600	1943949.04	0.1636	P	1.1
5	☐	1250.000	1362.571	3734904.90	0.3271	P	0.4
6	☐	2500.000	2564.438	6560754.14	0.6157	A	0.3
7	☐	5000.000	4931.186	12201530.83	1.1839	A	0.6
8	☐			5051.05	0.0005	P	1.5

$$y = 2.4009E-004 * x + 2.7599E-006$$

$$R = 0.9996$$

$$DL = 0.008934$$

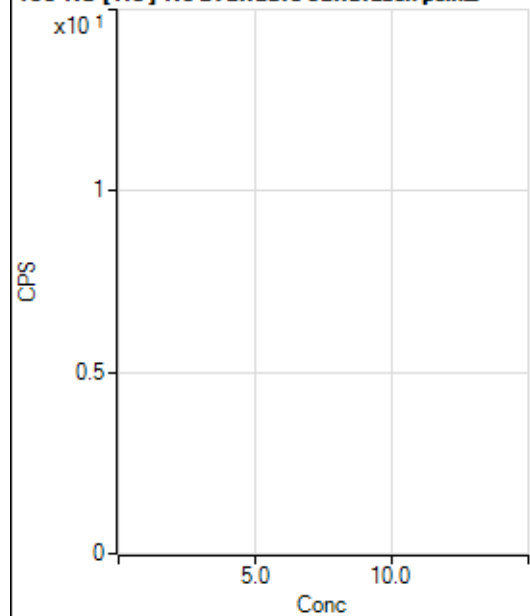
$$BEC = 0.0115$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

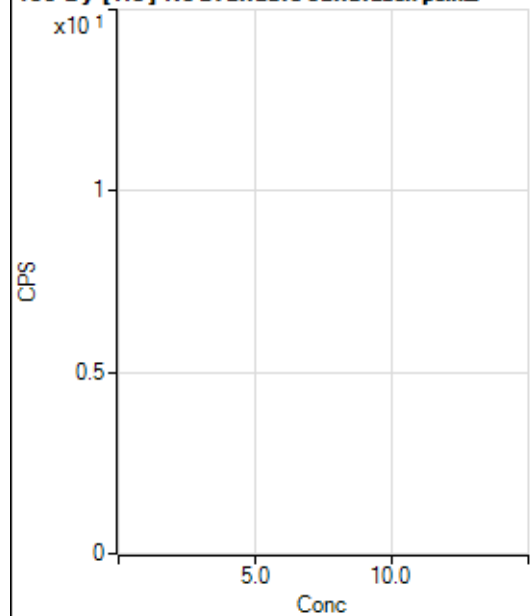
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	173.2
2	☐			0.00		P	
3	☐			42.22		P	39.7
4	☐			108.89		P	23.2
5	☐			175.56		P	2.2
6	☐			353.35		P	21.4
7	☐			582.25		P	19.5
8	☐			26.67		P	0.0

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	173.2
2	☐			4.44		P	43.4
3	☐			7.78		P	65.5
4	☐			22.22		P	60.6
5	☐			38.89		P	13.1
6	☐			73.33		P	27.7
7	☐			113.34		P	23.0
8	☐			15.56		P	53.9

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			11.11		P	114.6
3	☐			30.55		P	95.8
4	☐			58.33		P	14.3
5	☐			125.00		P	23.1
6	☐			280.57		P	6.2
7	☐			388.91		P	12.6
8	☐			1252.86		P	5.4

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.44		P	43.4
2	☐			4.45		P	86.6
3	☐			14.45		P	26.7
4	☐			42.22		P	4.6
5	☐			92.22		P	17.1
6	☐			163.34		P	10.2
7	☐			297.78		P	19.1
8	☐			950.04		P	4.6

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

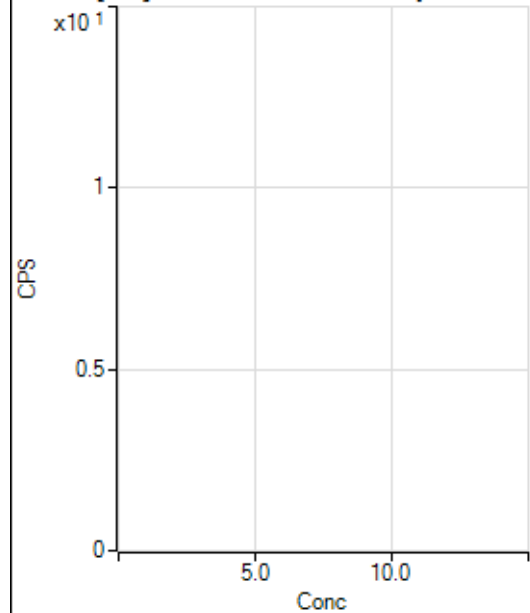
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			33.33		P	25.0
2	☐			36.11		P	66.6
3	☐			86.12		P	34.0
4	☐			102.78		P	12.4
5	☐			127.78		P	3.8
6	☐			236.12		P	10.8
7	☐			361.13		P	15.7
8	☐			1414.00		P	9.5

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			138.89		P	5.0
2	☐			145.56		P	3.5
3	☐			145.56		P	11.5
4	☐			165.56		P	14.3
5	☐			183.34		P	11.1
6	☐			220.01		P	5.2
7	☐			316.67		P	5.9
8	☐			1115.61		P	6.7

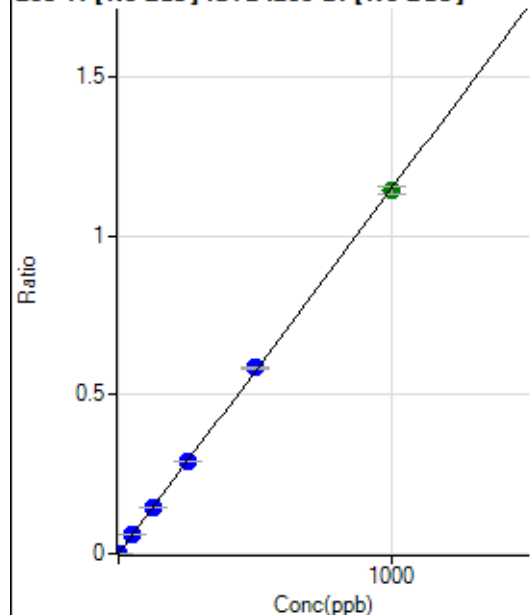
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			77.78		P	22.3
2	☐			94.45		P	5.1
3	☐			91.67		P	31.5
4	☐			77.78		P	16.4
5	☐			105.56		P	35.6
6	☐			130.56		P	57.9
7	☐			150.01		P	14.7
8	☐			286.12		P	3.4

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			67.78		P	18.6
2	☐			46.67		P	7.1
3	☐			47.78		P	29.0
4	☐			54.44		P	40.8
5	☐			62.22		P	13.5
6	☐			77.78		P	8.9
7	☐			92.23		P	15.0
8	☐			146.67		P	18.0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	263.90	0.0000	P	16.3
2	☐	1.000	0.968	10212.53	0.0011	P	5.3
3	☐	50.000	50.606	508634.85	0.0581	P	1.6
4	☐	125.000	124.473	1242380.30	0.1428	P	0.4
5	☐	250.000	252.812	2437665.74	0.2901	P	0.6
6	☐	500.000	510.372	4629151.58	0.5856	P	1.0
7	☐	1000.000	994.147	8617311.65	1.1406	A	2.1
8	☐			2464.19	0.0003	P	17.4

$$y = 0.0011 * x + 3.0035E-005$$

$$R = 0.9999$$

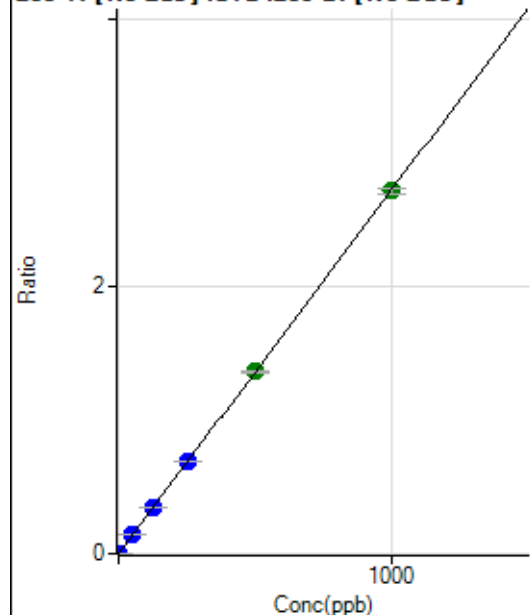
$$DL = 0.01282$$

$$BEC = 0.02618$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	563.91	0.0001	P	9.8
2	☐	1.000	0.977	24347.71	0.0027	P	0.5
3	☐	50.000	50.726	1206779.53	0.1378	P	1.8
4	☐	125.000	126.034	2977648.68	0.3424	P	0.5
5	☐	250.000	255.867	5839970.53	0.6950	P	0.3
6	☐	500.000	501.135	10759228.45	1.3611	A	1.0
7	☐	1000.000	997.800	20474622.33	2.7099	A	1.5
8	☐			5845.95	0.0008	P	23.0

$$y = 0.0027 * x + 6.4129E-005$$

$$R = 1.0000$$

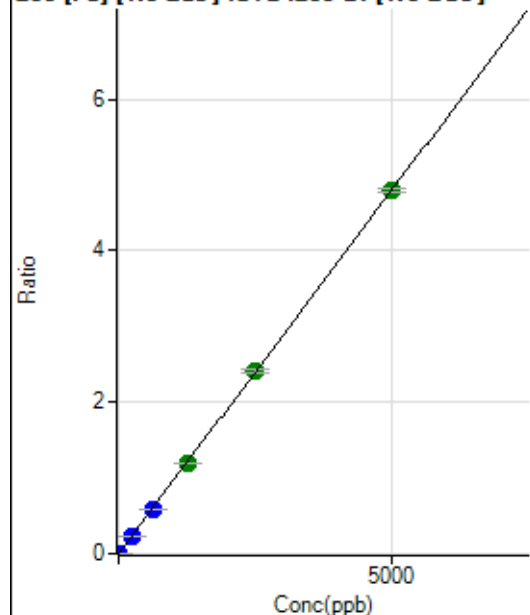
$$DL = 0.006957$$

$$BEC = 0.02361$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1250.08	0.0001	P	9.4
2	☐	1.000	0.971	9616.57	0.0011	P	4.6
3	☐	250.000	247.290	2077179.03	0.2372	P	1.4
4	☐	625.000	616.447	5141702.95	0.5912	P	0.5
5	☐	1250.000	1237.957	9975320.60	1.1870	A	0.8
6	☐	2500.000	2515.963	19069434.69	2.4123	A	1.1
7	☐	5000.000	4996.234	36193344.10	4.7903	A	1.2
8	☐			17852.93	0.0025	P	1.5

$$y = 9.5875E-004 * x + 1.4212E-004$$

$$R = 1.0000$$

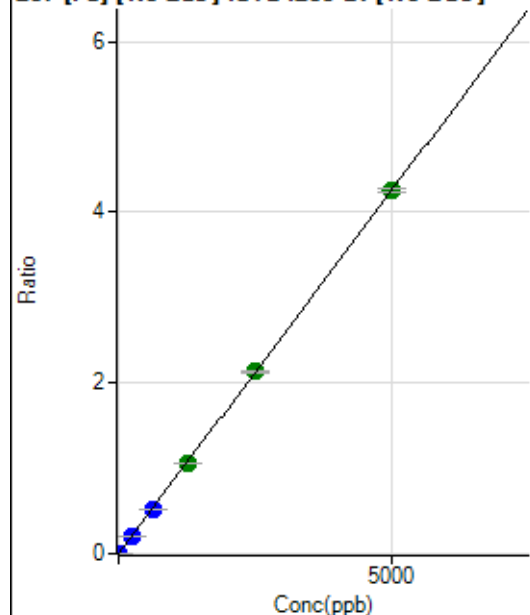
$$DL = 0.04168$$

$$BEC = 0.1482$$

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	1040.80	0.0001	P	5.6
2	☐	1.000	0.965	8415.79	0.0009	P	4.5
3	☐	250.000	245.221	1827187.09	0.2087	P	1.3
4	☐	625.000	611.907	4527556.00	0.5205	P	0.4
5	☐	1250.000	1238.537	8852785.27	1.0535	A	0.7
6	☐	2500.000	2513.331	16898527.46	2.1377	A	1.1
7	☐	5000.000	4998.076	32118347.01	4.2510	A	1.2
8	☐			15650.17	0.0022	P	2.5

$$y = 8.5050E-004 * x + 1.1839E-004$$

$$R = 1.0000$$

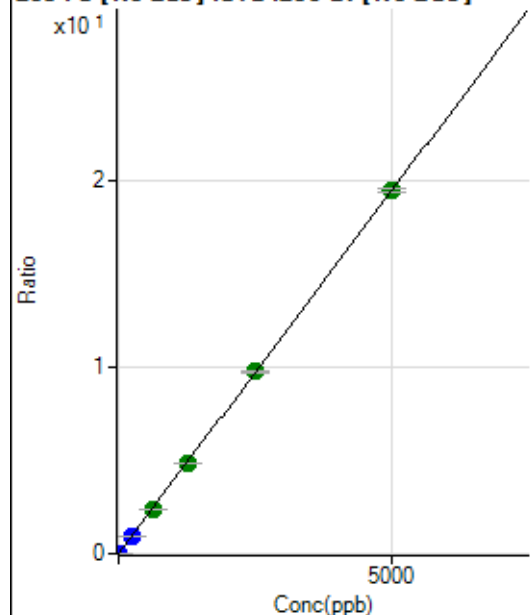
$$DL = 0.02347$$

$$BEC = 0.1392$$

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	4811.55	0.0005	P	3.0
2	☐	1.000	0.984	39193.84	0.0044	P	1.3
3	☐	250.000	247.362	8431615.76	0.9630	P	1.3
4	☐	625.000	611.397	20694121.58	2.3793	A	0.6
5	☐	1250.000	1238.195	40486609.36	4.8180	A	0.2
6	☐	2500.000	2508.724	77162717.23	9.7612	A	0.7
7	☐	5000.000	5000.422	146998622.5	19.4555	A	1.1
8	☐			71674.51	0.0100	P	1.1

$$y = 0.0039 * x + 5.4713E-004$$

$$R = 1.0000$$

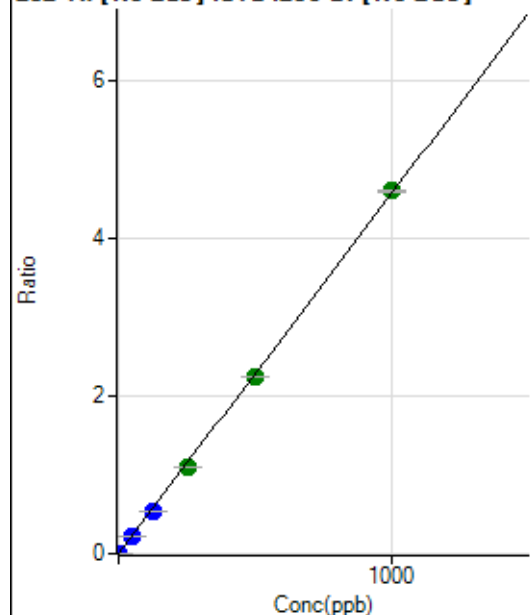
$$DL = 0.01267$$

$$BEC = 0.1406$$

Weight: <None>

Min Conc: 0

232 Th [No Gas] ISTD :209 Bi [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	283.34	0.0000	P	9.1
2	☐	1.000	0.002	353.72	0.0000	P	13.8
3	☐	50.000	46.242	1847447.97	0.2110	P	1.5
4	☐	125.000	117.452	4660822.38	0.5359	P	0.3
5	☐	250.000	240.426	9217331.81	1.0969	A	0.7
6	☐	500.000	491.788	17736526.09	2.2436	A	0.9
7	☐	1000.000	1007.632	34734561.19	4.5970	A	0.8
8	☐			2820.72	0.0004	P	12.2

$$y = 0.0046 * x + 3.2220E-005$$

$$R = 0.9999$$

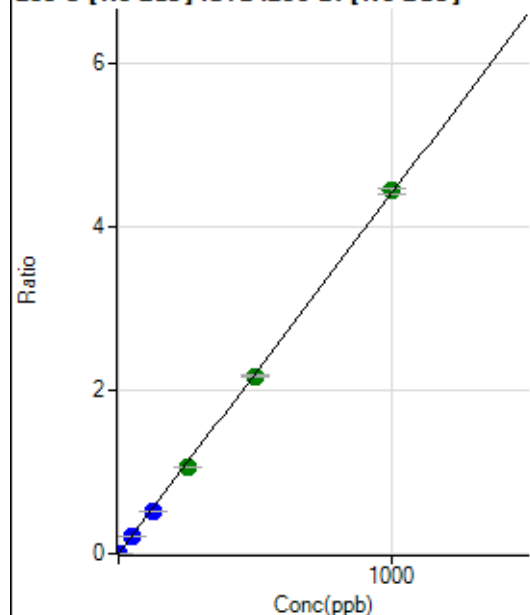
$$DL = 0.00192$$

$$BEC = 0.007062$$

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	25.00	0.0000	P	33.6
2	☐	1.000	1.473	58230.12	0.0065	P	2.0
3	☐	50.000	47.061	1817073.83	0.2075	P	1.3
4	☐	125.000	119.413	4580008.48	0.5266	P	0.4
5	☐	250.000	239.729	8883264.35	1.0571	A	0.5
6	☐	500.000	492.977	17183992.57	2.1738	A	1.3
7	☐	1000.000	1006.924	33545410.47	4.4401	A	1.9
8	☐			3553.36	0.0005	P	9.0

$$y = 0.0044 * x + 2.8438E-006$$

$$R = 0.9999$$

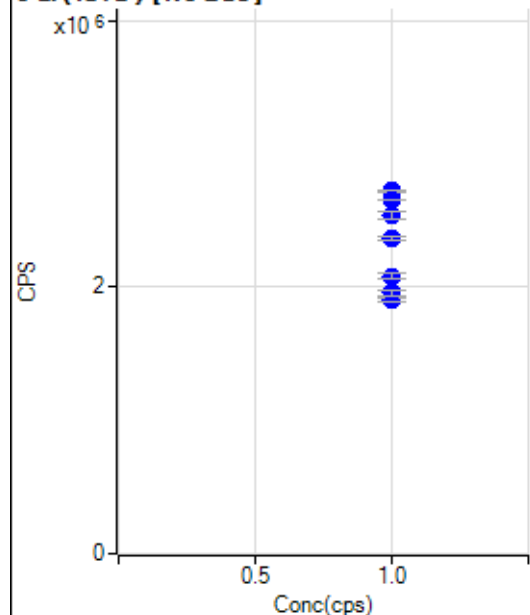
$$DL = 0.0006509$$

$$BEC = 0.0006449$$

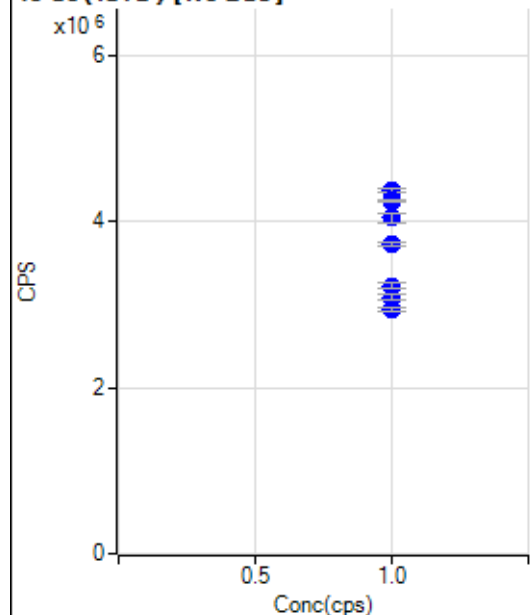
Weight: <None>

Min Conc: 0

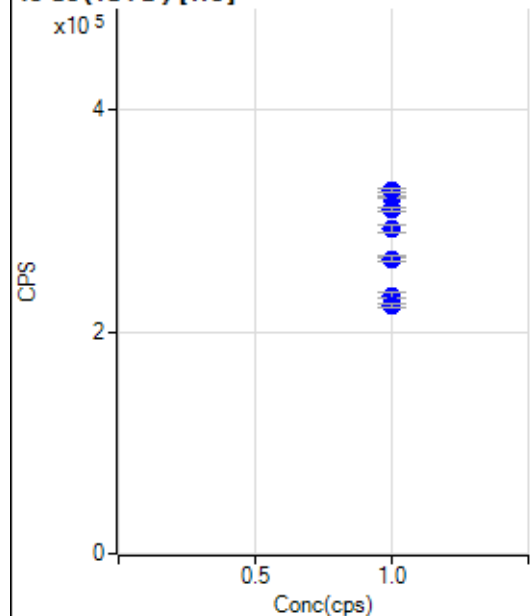
6 Li (ISTD) [No Gas]



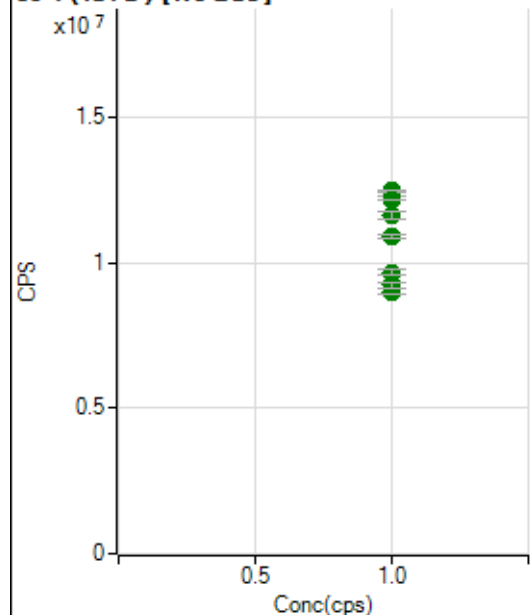
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		2658525.55		P	0.1
2	☐	1.000		2722101.80		P	0.8
3	☐	1.000		2653518.19		P	0.2
4	☐	1.000		2536116.96		P	2.0
5	☐	1.000		2367827.76		P	0.9
6	☐	1.000		2080692.68		P	2.0
7	☐	1.000		1900557.18		P	1.7
8	☐	1.000		1959638.12		P	2.4

45 Sc (ISTD) [No Gas]

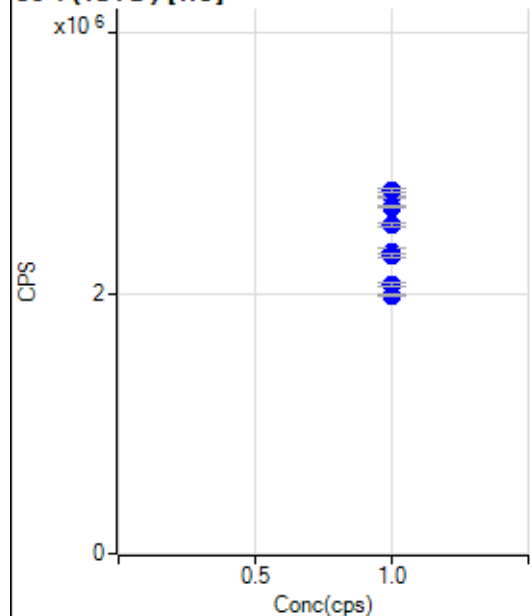
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4250094.73		P	0.4
2	☐	1.000		4371167.09		P	1.2
3	☐	1.000		4252491.60		P	0.5
4	☐	1.000		4045344.04		P	3.2
5	☐	1.000		3729545.15		P	1.2
6	☐	1.000		3221289.74		P	2.2
7	☐	1.000		2942280.30		P	1.9
8	☐	1.000		3082852.49		P	2.2

45 Sc (ISTD) [He]

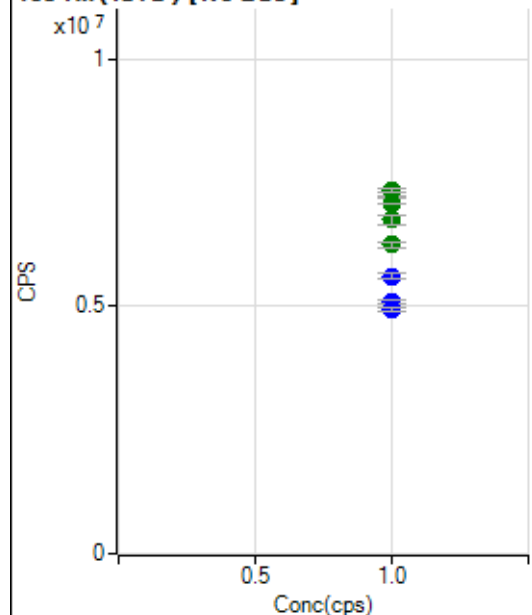
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		320920.86		P	0.6
2	☐	1.000		326932.50		P	1.2
3	☐	1.000		310044.22		P	0.9
4	☐	1.000		292389.09		P	2.3
5	☐	1.000		265781.60		P	1.2
6	☐	1.000		232921.95		P	1.8
7	☐	1.000		223554.68		P	1.6
8	☐	1.000		265463.31		P	1.9

89 Y (ISTD) [No Gas]

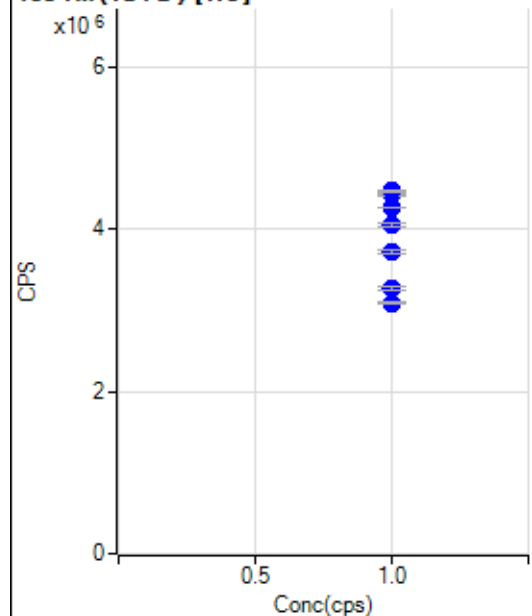
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		12286018.43		A	0.4
2	☐	1.000		12465829.54		A	0.6
3	☐	1.000		12168714.68		A	0.3
4	☐	1.000		11639921.35		A	2.5
5	☐	1.000		10912373.80		A	1.5
6	☐	1.000		9672394.92		A	2.2
7	☐	1.000		9012169.31		A	1.7
8	☐	1.000		9239503.47		A	2.2

89 Y (ISTD) [He]

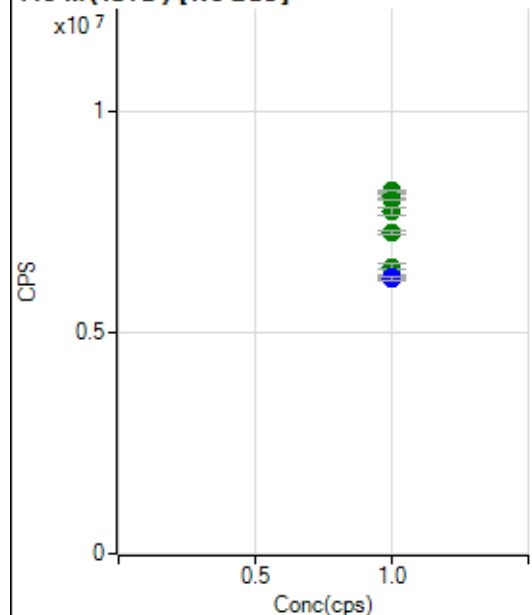
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2741630.17		P	0.5
2	☐	1.000		2787157.53		P	1.2
3	☐	1.000		2662743.81		P	0.5
4	☐	1.000		2526078.99		P	1.5
5	☐	1.000		2326268.80		P	1.4
6	☐	1.000		2063828.63		P	1.5
7	☐	1.000		1984614.83		P	1.0
8	☐	1.000		2286419.10		P	1.0

103 Rh (ISTD) [No Gas]

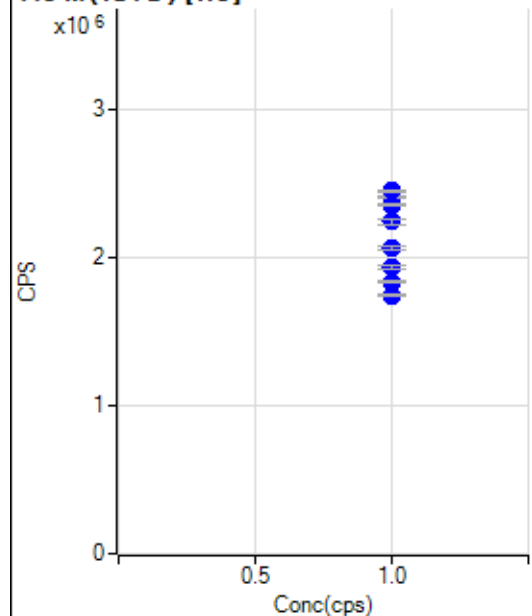
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		7205537.32		A	0.4
2	☐	1.000		7337793.99		A	1.2
3	☐	1.000		7070732.39		A	0.3
4	☐	1.000		6748342.19		A	2.5
5	☐	1.000		6251565.18		A	1.9
6	☐	1.000		5610388.88		P	2.1
7	☐	1.000		5090078.64		P	1.5
8	☐	1.000		4947432.49		P	1.8

103 Rh (ISTD) [He]

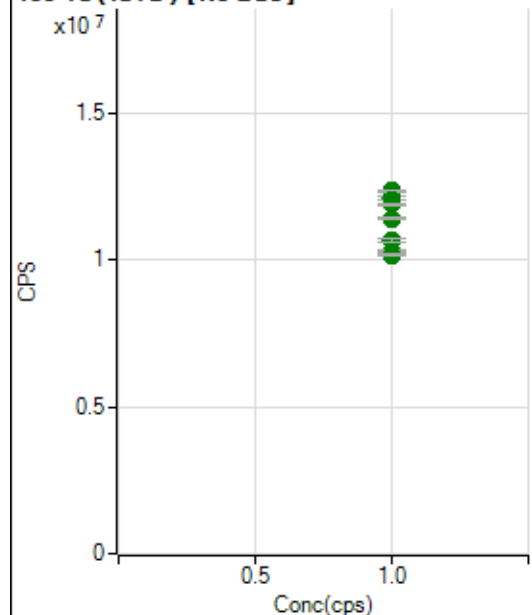
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		4434470.21		P	0.5
2	☐	1.000		4476943.37		P	0.7
3	☐	1.000		4275770.67		P	0.2
4	☐	1.000		4053821.05		P	1.5
5	☐	1.000		3721230.39		P	1.1
6	☐	1.000		3268356.62		P	1.2
7	☐	1.000		3090928.91		P	1.0
8	☐	1.000		3266672.31		P	1.2

115 In (ISTD) [No Gas]

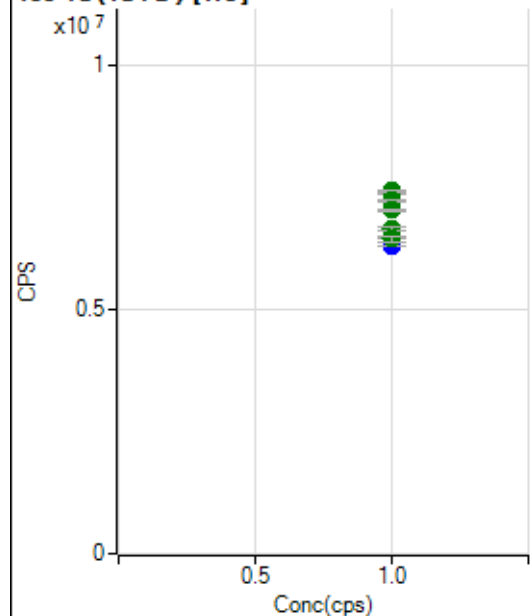
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8089685.50		A	0.9
2	☐	1.000		8211644.86		A	0.8
3	☐	1.000		8017467.50		A	0.2
4	☐	1.000		7740399.01		A	2.1
5	☐	1.000		7274103.30		A	1.5
6	☐	1.000		6502323.81		A	1.5
7	☐	1.000		6267521.31		P	0.8
8	☐	1.000		6231388.56		P	1.5

115 In (ISTD) [He]

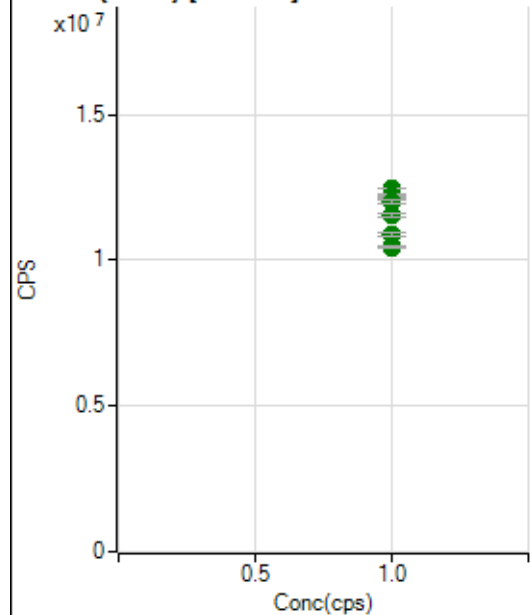
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2414032.71		P	0.4
2	☐	1.000		2451157.91		P	0.8
3	☐	1.000		2353917.50		P	0.5
4	☐	1.000		2242853.35		P	1.3
5	☐	1.000		2065707.51		P	0.9
6	☐	1.000		1836955.30		P	1.2
7	☐	1.000		1741695.41		P	0.8
8	☐	1.000		1934930.57		P	1.3

159 Tb (ISTD) [No Gas]

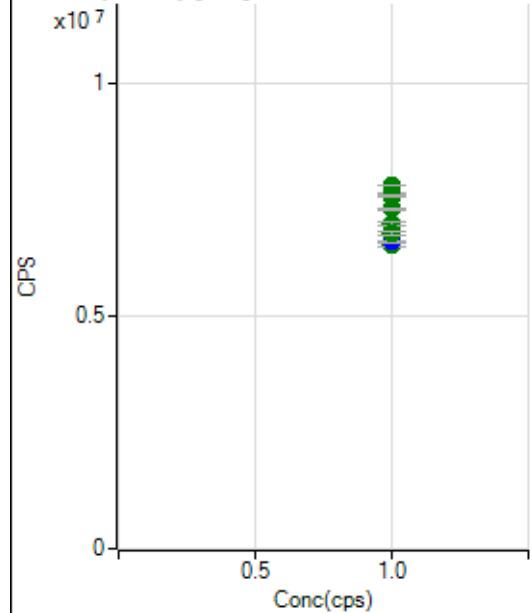
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		12099191.35		A	1.1
2	☐	1.000		12346515.65		A	0.2
3	☐	1.000		12026267.88		A	0.3
4	☐	1.000		11878473.85		A	0.8
5	☐	1.000		11417079.28		A	0.9
6	☐	1.000		10655772.27		A	1.0
7	☐	1.000		10306113.04		A	0.6
8	☐	1.000		10168414.99		A	0.5

159 Tb (ISTD) [He]

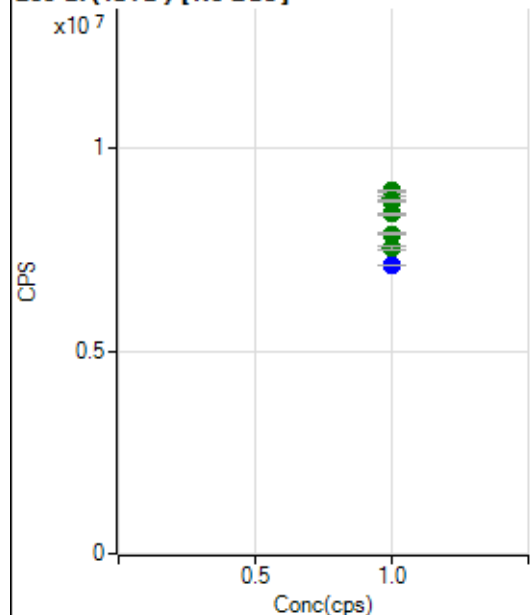
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7394248.99		A	0.3
2	☐	1.000		7434955.65		A	0.4
3	☐	1.000		7236705.59		A	0.4
4	☐	1.000		7045964.13		A	0.5
5	☐	1.000		6661293.44		A	1.0
6	☐	1.000		6476878.72		P	0.9
7	☐	1.000		6305389.83		P	0.4
8	☐	1.000		6444526.92		A	1.8

165 Ho (ISTD) [No Gas]

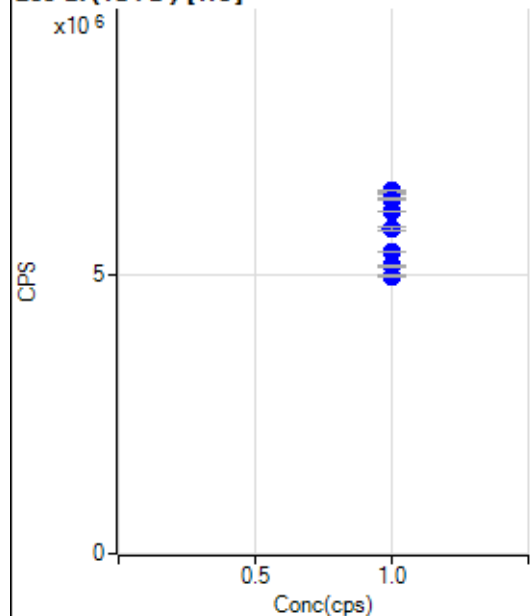
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		12180970.79		A	0.6
2	☐	1.000		12444758.42		A	0.1
3	☐	1.000		12209692.60		A	0.6
4	☐	1.000		12004155.10		A	0.8
5	☐	1.000		11552476.64		A	1.3
6	☐	1.000		10880594.91		A	0.7
7	☐	1.000		10477825.19		A	0.7
8	☐	1.000		10435708.66		A	0.6

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		7644490.86		A	0.3
2	☐	1.000		7786989.75		A	0.1
3	☐	1.000		7563047.11		A	0.4
4	☐	1.000		7293288.78		A	0.8
5	☐	1.000		6959029.41		A	1.1
6	☐	1.000		6514359.63		A	1.0
7	☐	1.000		6601915.60		P	0.7
8	☐	1.000		6768345.18		A	1.0

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8794472.92		A	0.9
2	☐	1.000		8959515.35		A	0.7
3	☐	1.000		8756971.05		A	1.3
4	☐	1.000		8697842.44		A	0.7
5	☐	1.000		8403309.60		A	0.6
6	☐	1.000		7905257.24		A	0.5
7	☐	1.000		7556378.01		A	1.4
8	☐	1.000		7134385.87		P	0.3

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6445124.14		P	0.4
2	☐	1.000		6496720.88		P	0.2
3	☐	1.000		6347378.87		P	0.5
4	☐	1.000		6127838.45		P	0.2
5	☐	1.000		5810474.15		P	1.0
6	☐	1.000		5409515.06		P	0.4
7	☐	1.000		5158807.56		P	0.5
8	☐	1.000		4968342.95		P	1.0

US EPA Tune Check Sample Report

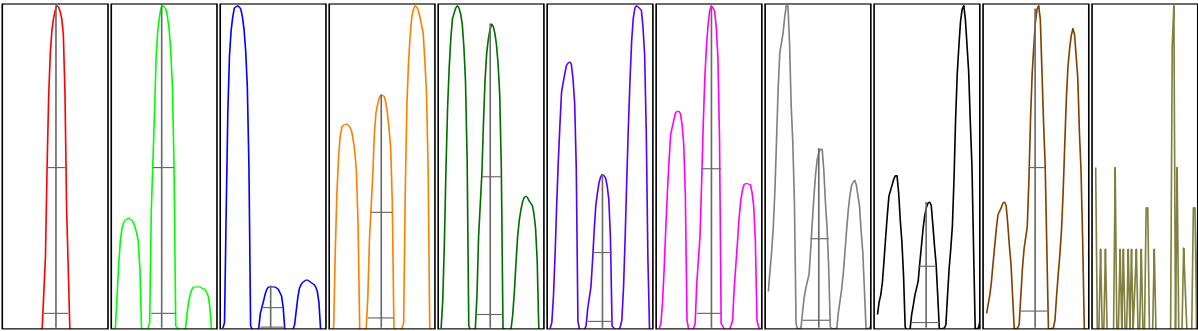
Batch Folder C:\Agilent\ICPMH\1\DATA\P7092721S.b
Report Comment
Instrument Name G8403A JP14410463

[No Gas]

Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)	RSD% (Flag)
9	7691	2.47	5.00	
24	70139	2.85	5.00	
25	9395	3.11	5.00	
26	10768	3.31	5.00	
59	17184	3.67	5.00	
113	11924	2.81	5.00	
115	36902	2.63	5.00	
206	20069	0.78	5.00	
207	16788	1.61	5.00	
208	41330	1.07	5.00	
220	0	69.72		

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
9	7691	7730	7963	7636	7435
24	70708	70507	72683	69626	67169
25	9445	9436	9798	9312	8984
26	10837	10819	11244	10692	10250
59	17119	17247	18161	16979	16416
113	11933	11922	12461	11734	11569
115	37220	37192	38089	36542	35468
206	20173	20216	19815	20067	20075
207	16946	17086	16496	16905	16508
208	41819	41497	40642	41489	41201
220	0	0	0	0	0

Integration Time [sec] = 0.1



Mass	Peak Height	Axis (Actual)	Axis (Required)	Axis (Flag)	Width-X% (Actual)	Width-X% (Required)	Width- X% (Flag)
9	13655	9.05	8.9 - 9.1		0.733	0.900	
24	116921	23.95	23.9 - 24.1		0.741	0.900	
25	15508	24.95	24.9 - 25.1		0.741	0.900	
26	17700	26.00	25.9 - 26.1		0.779	0.900	
59	29930	59.00	58.9 - 59.1		0.773	0.900	
113	22123	113.10	112.9 - 113.1		0.734	0.900	
115	68554	115.10	114.9 - 115.1		0.734	0.900	
206	40047	206.05	205.9 - 206.1		0.819	0.900	
207	32746	207.00	206.9 - 207.1		0.818	0.900	
208	83245	208.00	207.9 - 208.1		0.815	0.900	
220			-				

X% = 5 Integration Time [sec] = 0.1 Acquisition Time [sec] = 256.8 Y Axis = Linear

Tune Parameters

Plasma Paramters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
RF Power	1600	W	Carrier Gas	0.72	L/min	S/C Temp		2 °C
RF Matching	1.80	V	Option Gas	0.0	%	Gas Switch		Dilution Gas
Smpl Depth	9.0	mm	Nebulizer Pump	0.10	rpm	Makeup/Dilution Gas		0.42 L/min

Lenses Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Extract 1	0.0	V	Omega Lens	9.6	V	Deflect	14.0	V
Extract 2	-125.0	V	Cell Entrance	-30	V	Plate Bias	-35	V
Omega Bias	-75	V	Cell Exit	-50	V			

Cell Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Use Gas	No		OctP Bias	-8.0	V	Energy Discrimination		5.0 V
He Flow	0.0	mL/min	OctP RF	170	V			

[He]

Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)
59	5691	0.99	
89	31726	0.88	
205	24926	0.27	

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
59	5713	5759	5711	5613	5658
89	31904	32091	31706	31388	31540
205	24985	24879	24847	25000	24917

Integration Time [sec] = 0.1

Tune Parameters

Plasma Paramters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
RF Power	1600	W	Carrier Gas	0.72	L/min	S/C Temp		2 °C
RF Matching	1.80	V	Option Gas	0.0	%	Gas Switch		Dilution Gas
Smpl Depth	9.0	mm	Nebulizer Pump	0.10	rpm	Makeup/Dilution Gas		0.42 L/min

Lenses Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Extract 1	0.0	V	Omega Lens	9.4	V	Deflect	2.0	V
Extract 2	-130.0	V	Cell Entrance	-40	V	Plate Bias	-60	V
Omega Bias	-80	V	Cell Exit	-60	V			

Cell Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Use Gas	Yes		OctP Bias	-18.0	V	Energy Discrimination		5.0 V
He Flow	3.9	mL/min	OctP RF	200	V			