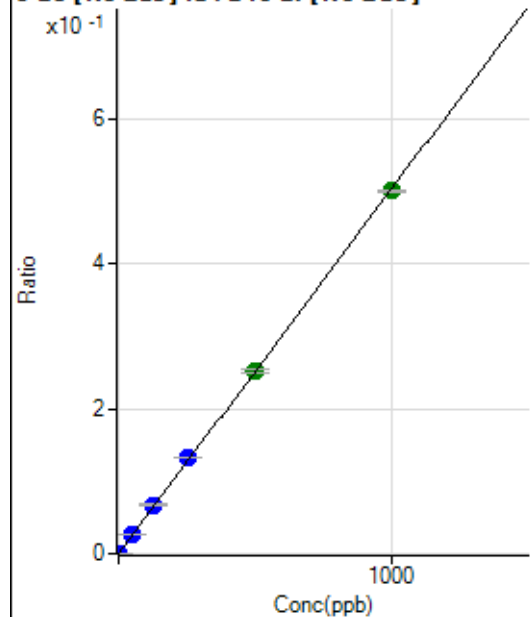


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8111221MS.b\
Analysis File: P8111221MS.batch.bin
DA Date-Time: 2021-11-12 12:45:41
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2021-11-12 10:20:46
2	006CALS.d	S02	2021-11-12 10:26:55
3	007CALS.d	S03	2021-11-12 10:29:58
4	008CALS.d	S04	2021-11-12 10:33:04
5	009CALS.d	S05	2021-11-12 10:36:07
6	010CALS.d	S06	2021-11-12 10:39:14
7	011CALS.d	S07	2021-11-12 10:42:17
8	012CALS.d	S08	2021-11-12 10:45:23

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	87.31	0.0000	P	10.5
2	☐	1.000	1.090	2175.74	0.0006	P	5.0
3	☐	50.000	52.952	106517.96	0.0267	P	5.7
4	☐	125.000	133.456	266526.40	0.0671	P	4.3
5	☐	250.000	263.691	534868.62	0.1326	P	0.6
6	☐	500.000	500.807	1045952.15	0.2519	A	1.8
7	☐	1000.000	994.969	2073362.24	0.5004	A	0.2
8	☐			459.25	0.0001	P	23.3

$$y = 5.0295\text{E-}004 * x + 2.3032\text{E-}005$$

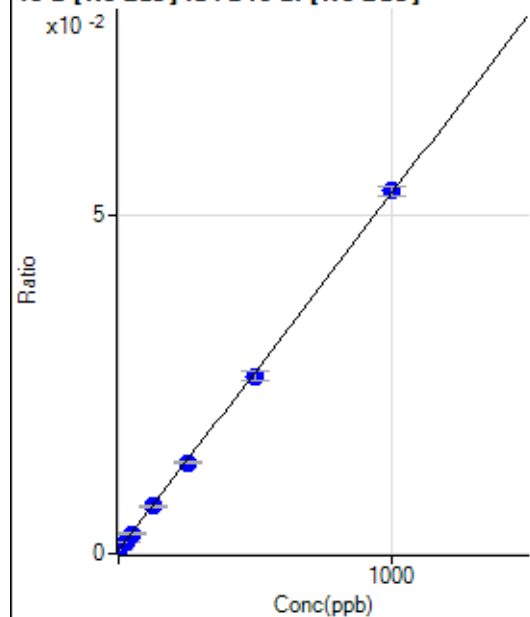
$$R = 0.9999$$

$$DL = 0.0144$$

$$BEC = 0.04579$$

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	1885.09	0.0005	P	5.1
2	☐	25.000	23.384	6580.87	0.0017	P	2.2
3	☐	50.000	47.107	11898.53	0.0030	P	5.6
4	☐	125.000	123.091	27745.01	0.0070	P	2.9
5	☐	250.000	245.754	54166.93	0.0134	P	3.5
6	☐	500.000	488.481	108811.20	0.0262	P	5.0
7	☐	1000.000	1007.245	221710.93	0.0535	P	2.5
8	☐			36701.87	0.0090	P	2.2

$$y = 5.2632\text{E-}005 * x + 4.9683\text{E-}004$$

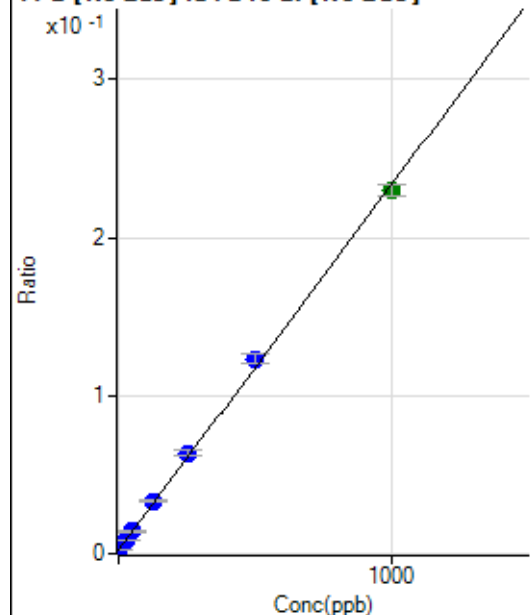
$$R = 0.9999$$

$$DL = 1.433$$

$$BEC = 9.44$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	8432.12	0.0022	P	3.1
2	☐	25.000	25.826	31194.55	0.0082	P	1.3
3	☐	50.000	50.925	55861.17	0.0140	P	9.7
4	☐	125.000	133.726	131776.47	0.0331	P	2.6
5	☐	250.000	266.357	257335.41	0.0638	P	4.8
6	☐	500.000	523.288	511395.07	0.1232	P	5.5
7	☐	1000.000	983.109	950665.69	0.2295	A	3.2
8	☐			173709.54	0.0424	P	2.2

$$y = 2.3114\text{E-}004 * x + 0.0022$$

$$R = 0.9994$$

$$DL = 0.8913$$

$$BEC = 9.611$$

Weight: <None>

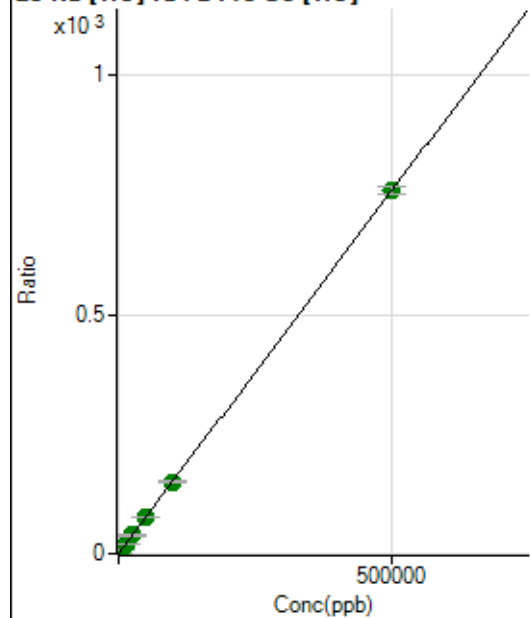
Min Conc: 0

12 C [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			5287896.65		A	1.1
2	☐			5162303.29		A	1.0
3	☐			5486871.91		A	1.2
4	☐			5677371.26		A	3.0
5	☐			5921987.98		A	0.3
6	☐			6384036.78		A	1.2
7	☐			7480738.10		A	4.0
8	☐			6211655.13		A	2.4

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			52428.08		P	2.6
2	☐			51747.65		P	2.2
3	☐			56797.26		P	4.7
4	☐			58852.28		P	1.8
5	☐			61421.20		P	2.2
6	☐			67492.24		P	2.0
7	☐			83063.72		P	1.1
8	☐			72148.03		P	1.3

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	18000.52	0.0739	P	7.2
2	☐	500.000	501.535	212727.74	0.8340	P	2.3
3	☐	5000.000	5302.257	2066757.47	8.1100	A	4.0
4	☐	12500.000	12949.873	5056035.84	19.7008	A	5.2
5	☐	25000.000	25207.821	9940504.82	38.2790	A	1.6
6	☐	50000.000	49624.351	20235551.32	75.2849	A	2.3
7	☐	100000.00	99225.127	40237431.80	150.4602	A	1.1
8	☐	500000.00	500167.87	190207694.5	758.1320	A	2.0

$$y = 0.0015 * x + 0.0739$$

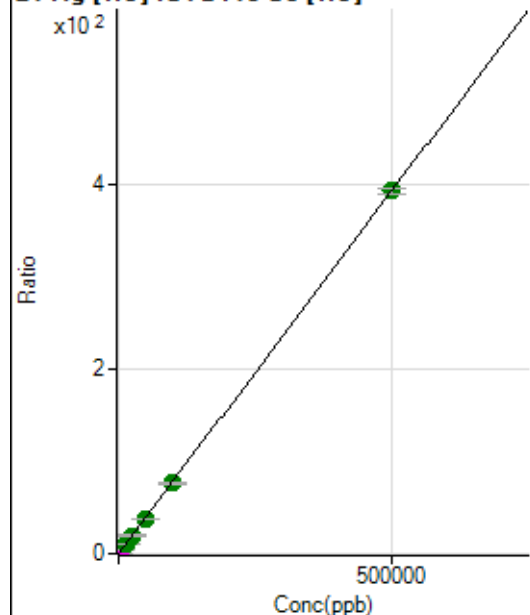
$$R = 1.0000$$

$$DL = 10.51$$

$$BEC = 48.73$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	605.60	0.0025	P	24.7
2	☐	500.000	498.287	100388.31	0.3936	P	2.4
3	☐	5000.000	5348.964	1070593.25	4.2006	M	1.9
4	☐	12500.000	12921.077	2602517.85	10.1436	A	5.9
5	☐	25000.000	25171.818	5131137.61	19.7585	A	1.8
6	☐	50000.000	48579.059	10251464.64	38.1297	A	1.0
7	☐	100000.00	97930.843	20555891.61	76.8633	A	2.5
8	☐	500000.00	500533.32	98562956.37	392.8450	A	1.4

$$y = 7.8485\text{E-}004 * x + 0.0025$$

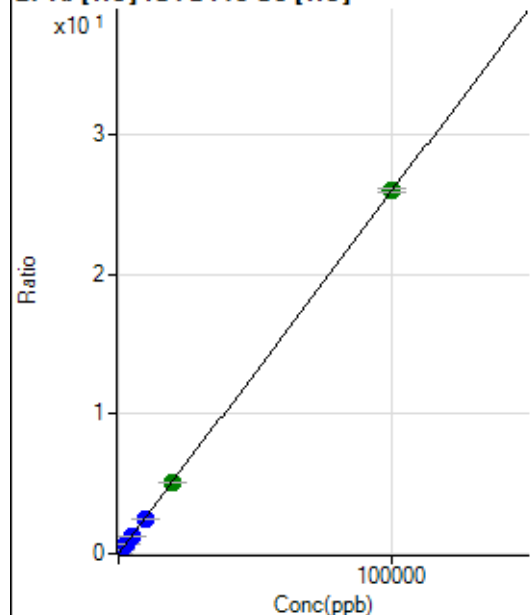
$$R = 1.0000$$

$$DL = 2.356$$

$$BEC = 3.176$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	132.07	0.0005	P	14.1
2	☐	20.000	19.044	1398.65	0.0055	P	1.3
3	☐	1000.000	1035.967	68623.97	0.2692	P	0.6
4	☐	2500.000	2530.445	168619.72	0.6569	P	4.5
5	☐	5000.000	4924.332	331820.87	1.2778	P	0.6
6	☐	10000.000	9425.854	657359.97	2.4454	P	1.2
7	☐	20000.000	19574.874	1358054.32	5.0777	A	2.0
8	☐	100000.00	100145.10	6517398.56	25.9755	A	1.0

$$y = 2.5937\text{E-}004 * x + 5.4207\text{E-}004$$

$$R = 1.0000$$

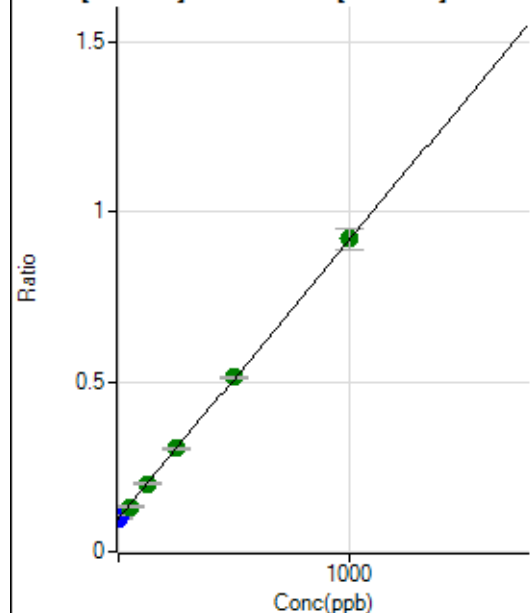
$$DL = 0.8824$$

$$BEC = 2.09$$

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	791876.07	0.0984	P	4.1
2	☐	10.000	10.742	866076.32	0.1072	P	0.9
3	☐	50.000	40.471	1134762.44	0.1316	A	5.9
4	☐	125.000	121.994	1635797.78	0.1986	A	3.0
5	☐	250.000	248.604	2538539.44	0.3025	A	1.8
6	☐	500.000	504.462	4383011.47	0.5126	A	1.2
7	☐	1000.000	998.963	7940516.41	0.9187	A	6.8
8	☐			1863968.07	0.2310	A	6.3

$$y = 8.2117E-004 * x + 0.0984$$

R = 0.9999

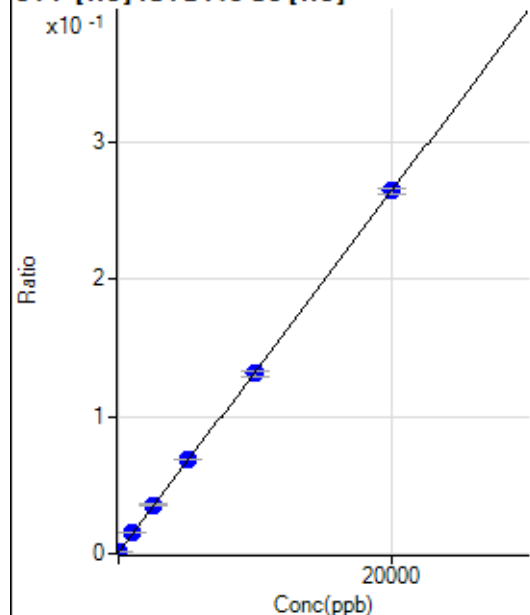
DL = 14.79

BEC = 119.8

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	-9.787	194.45	0.0008	P	18.4
2	☐	0.000	9.787	269.45	0.0011	P	11.7
3	☐	1000.000	1087.316	3878.39	0.0152	P	5.2
4	☐	2500.000	2624.600	9089.21	0.0354	P	6.5
5	☐	5000.000	5117.110	17708.48	0.0682	P	0.7
6	☐	10000.000	9886.206	35179.38	0.1309	P	2.5
7	☐	20000.000	20007.679	70589.49	0.2639	P	1.2
8	☐			188.90	0.0008	P	36.4

$$y = 1.3145E-005 * x + 9.2678E-004$$

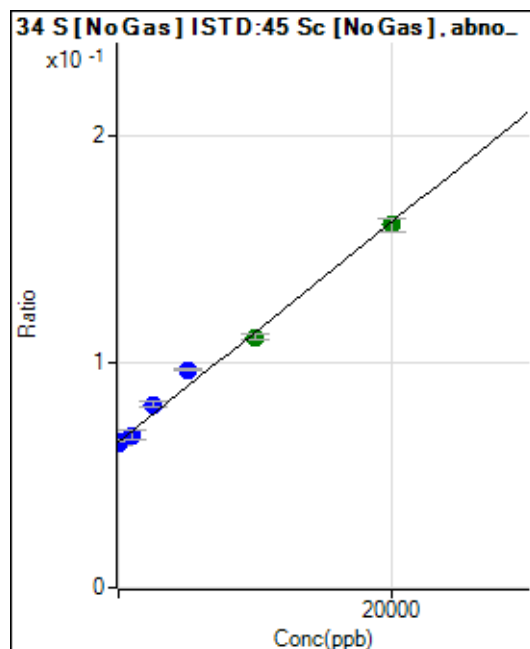
R = 0.9999

DL = 30.87

BEC = 70.5

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	-75.098	517137.18	0.0642	P	3.5
2	☐	0.000	75.098	524893.51	0.0650	P	1.0
3	☐	1000.000	622.789	583154.57	0.0676	P	6.0
4	☐	2500.000	3440.504	670439.56	0.0814	P	3.2
5	☐	5000.000	6562.402	810628.64	0.0966	P	0.4
6	☐	10000.000	9547.412	950337.28	0.1112	A	1.9
7	☐	20000.000	19736.991	1391328.52	0.1609	A	3.5
8	☐			466731.64	0.0578	P	2.1

$$y = 4.8769\text{E-}006 * x + 0.0646$$

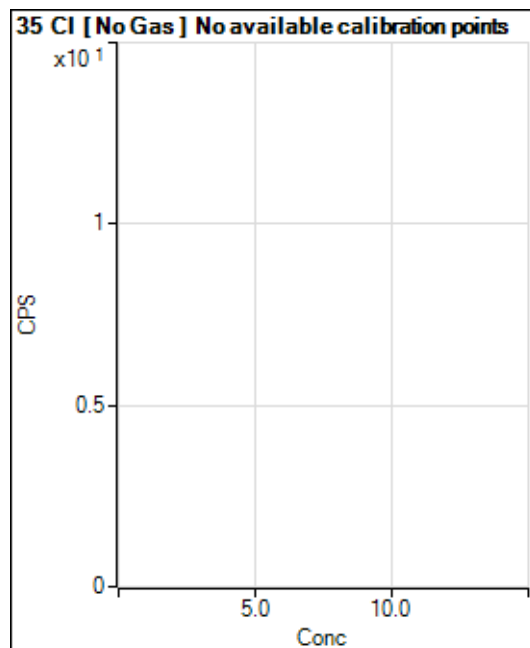
$$R = 0.9947$$

$$DL = 887.3$$

$$BEC = 1.325\text{E}+04$$

Weight: <None>

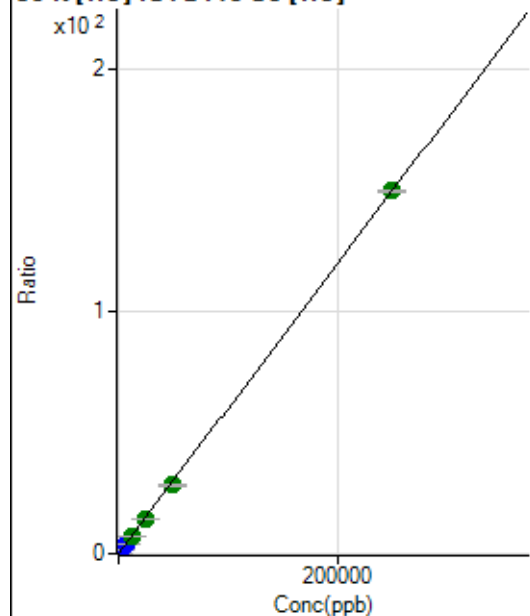
Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			473810.68		P	1.7
2	☐			418863.33		P	0.3
3	☐			433521.18		P	1.7
4	☐			394824.09		P	0.1
5	☐			376796.68		P	0.4
6	☐			375089.81		P	1.4
7	☐			374429.51		P	1.1
8	☐			368378.05		P	0.7

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2647.54		P	6.8
2	☐			2516.95		P	7.2
3	☐			2400.26		P	4.2
4	☐			2058.54		P	4.9
5	☐			2139.10		P	11.1
6	☐			2152.99		P	8.8
7	☐			2139.11		P	7.2
8	☐			1936.29		P	9.3

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	22632.13	0.0928	P	5.7
2	☐	500.000	470.192	95370.41	0.3739	P	1.6
3	☐	2500.000	2611.689	421526.17	1.6538	P	1.1
4	☐	6250.000	6438.133	1011383.04	3.9409	P	5.1
5	☐	12500.000	12328.328	1937643.38	7.4614	A	1.4
6	☐	25000.000	23549.453	3808430.43	14.1683	A	2.4
7	☐	50000.000	47163.207	7563896.87	28.2821	A	0.7
8	☐	250000.00	250715.23	37621487.99	149.9445	A	0.7

$$y = 5.9770E-004 * x + 0.0928$$

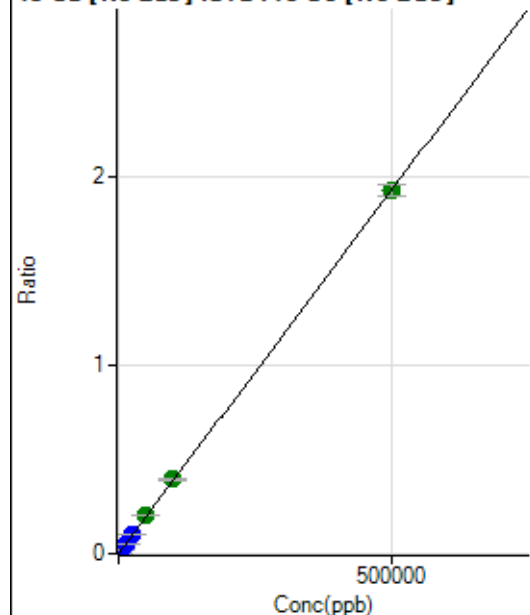
$$R = 0.9999$$

$$DL = 26.53$$

$$BEC = 155.3$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	309.55	0.0000	P	4.7
2	☐	500.000	483.697	15367.14	0.0019	P	1.4
3	☐	5000.000	5082.399	169084.54	0.0196	P	6.9
4	☐	12500.000	13269.081	421459.36	0.0512	P	3.5
5	☐	25000.000	25831.653	835447.14	0.0996	P	1.1
6	☐	50000.000	51931.589	1711240.19	0.2001	A	0.9
7	☐	100000.00	102420.40	3414679.29	0.3947	A	1.6
8	☐	500000.00	499261.14	15527689.90	1.9237	A	3.2

$$y = 3.8530\text{E-}006 * x + 3.8418\text{E-}005$$

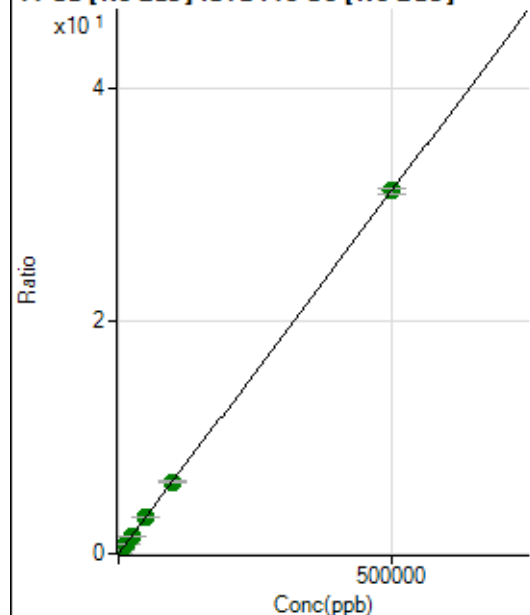
$$R = 1.0000$$

$$DL = 1.401$$

$$BEC = 9.971$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	37942.77	0.0047	P	4.0
2	☐	500.000	480.950	280165.88	0.0347	P	0.1
3	☐	5000.000	4978.252	2712035.51	0.3149	A	9.0
4	☐	12500.000	12653.875	6534997.98	0.7931	A	2.2
5	☐	25000.000	24777.880	12992992.67	1.5484	A	1.2
6	☐	50000.000	49831.077	26583814.36	3.1093	A	1.7
7	☐	100000.00	99121.836	53473742.95	6.1803	A	2.3
8	☐	500000.00	500200.02	251645856.3	31.1685	A	1.6

$$y = 6.2303\text{E-}005 * x + 0.0047$$

$$R = 1.0000$$

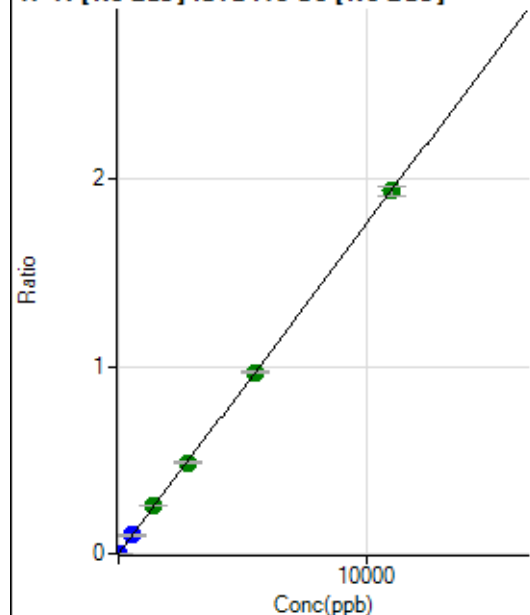
$$DL = 8.996$$

$$BEC = 75.66$$

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	333.35	0.0000	P	17.4
2	☐	5.000	5.229	7785.67	0.0010	P	2.9
3	☐	550.000	567.566	862737.38	0.1001	P	7.3
4	☐	1375.000	1452.822	2111057.75	0.2562	A	3.0
5	☐	2750.000	2759.561	4083645.57	0.4867	A	1.2
6	☐	5500.000	5494.951	8285399.58	0.9691	A	0.7
7	☐	11000.000	10989.528	16765371.73	1.9380	A	2.5
8	☐			2405.83	0.0003	P	18.8

$$y = 1.7635E-004 * x + 4.1495E-005$$

$$R = 1.0000$$

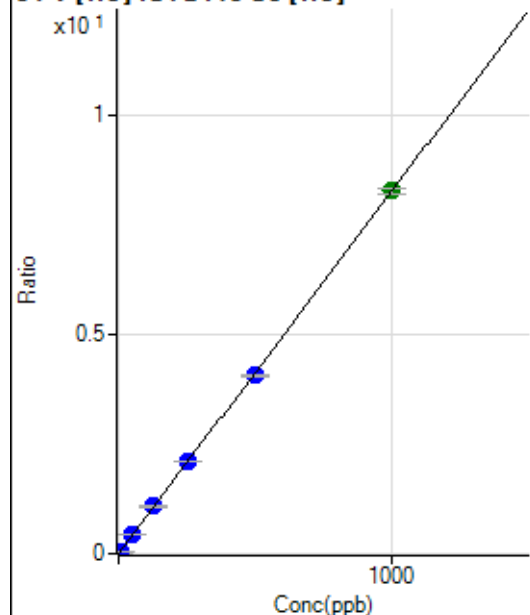
$$DL = 0.1229$$

$$BEC = 0.2353$$

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	8.89	0.0000	P	58.3
2	☐	5.000	5.007	10564.00	0.0414	P	5.5
3	☐	50.000	53.388	112451.63	0.4413	P	3.2
4	☐	125.000	130.954	277729.44	1.0823	P	5.7
5	☐	250.000	253.639	544357.55	2.0962	P	0.5
6	☐	500.000	492.674	1094594.90	4.0717	P	0.7
7	☐	1000.000	1001.840	2214175.96	8.2797	A	1.6
8	☐			521.12	0.0021	P	5.3

$$y = 0.0083 * x + 3.6742E-005$$

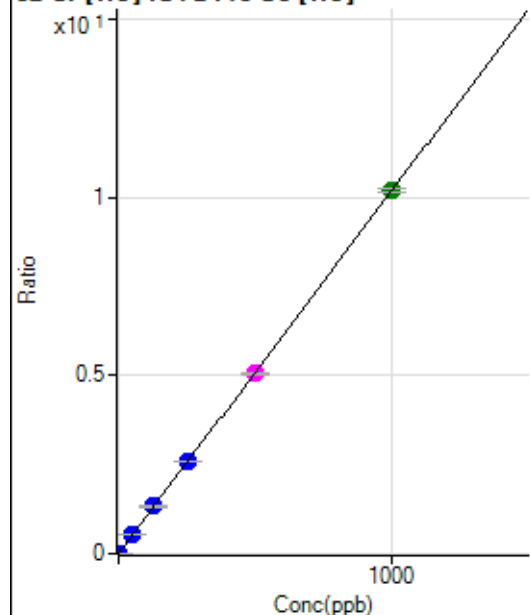
$$R = 0.9999$$

$$DL = 0.007775$$

$$BEC = 0.004446$$

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	730.03	0.0030	P	4.2
2	☐	2.000	2.030	6026.88	0.0236	P	3.1
3	☐	50.000	53.799	140190.64	0.5500	P	0.8
4	☐	125.000	130.546	341494.98	1.3304	P	4.7
5	☐	250.000	252.935	668641.81	2.5749	P	0.6
6	☐	500.000	495.874	1356274.51	5.0451	M	1.9
7	☐	1000.000	1000.446	2721399.16	10.1757	A	1.1
8	☐			8752.74	0.0349	P	0.7

$$y = 0.0102 * x + 0.0030$$

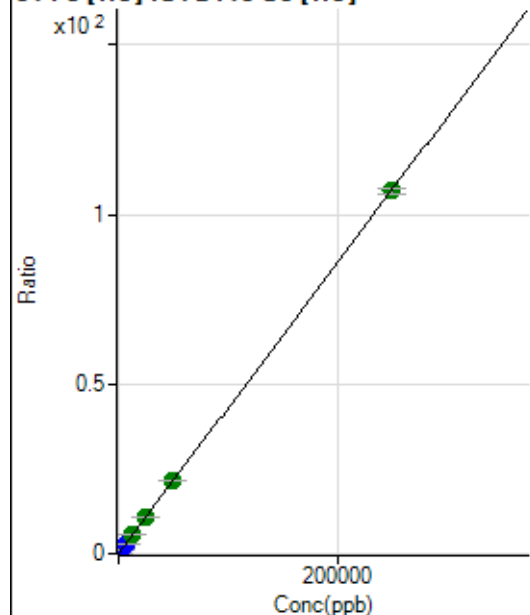
$$R = 1.0000$$

$$DL = 0.03726$$

$$BEC = 0.2941$$

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	631.51	0.0026	P	5.9
2	☐	50.000	50.946	6221.83	0.0244	P	1.1
3	☐	2500.000	2727.812	298182.16	1.1700	P	1.6
4	☐	6250.000	6674.702	733814.07	2.8591	P	4.9
5	☐	12500.000	12867.938	1430743.80	5.5096	A	0.5
6	☐	25000.000	25588.879	2944622.63	10.9536	A	1.3
7	☐	50000.000	50511.547	5781812.74	21.6195	A	1.4
8	☐	250000.00	249807.51	26823191.34	106.9103	A	1.8

$$y = 4.2796E-004 * x + 0.0026$$

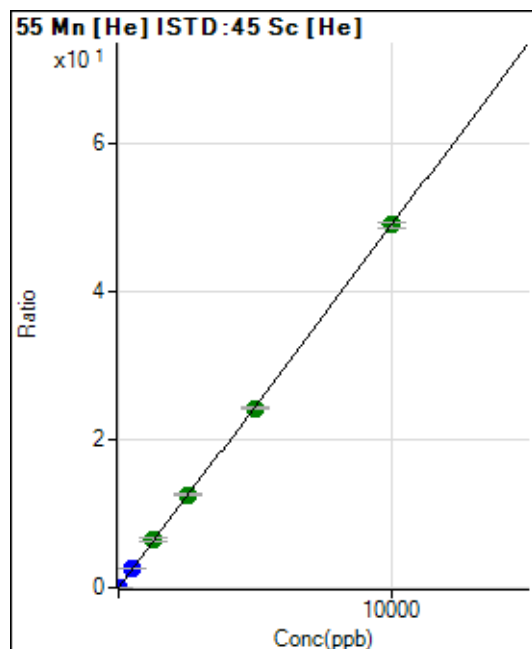
$$R = 1.0000$$

$$DL = 1.072$$

$$BEC = 6.043$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	116.46	0.0005	P	39.0
2	☐	1.000	1.006	1380.01	0.0054	P	6.3
3	☐	500.000	537.275	671635.59	2.6353	P	1.5
4	☐	1250.000	1322.507	1665017.55	6.4861	A	4.4
5	☐	2500.000	2566.159	3268308.07	12.5850	A	2.8
6	☐	5000.000	4941.333	6514814.19	24.2330	A	1.0
7	☐	10000.000	10001.866	13118219.27	49.0500	A	1.3
8	☐			20825.31	0.0830	P	1.4

$$y = 0.0049 * x + 4.8034E-004$$

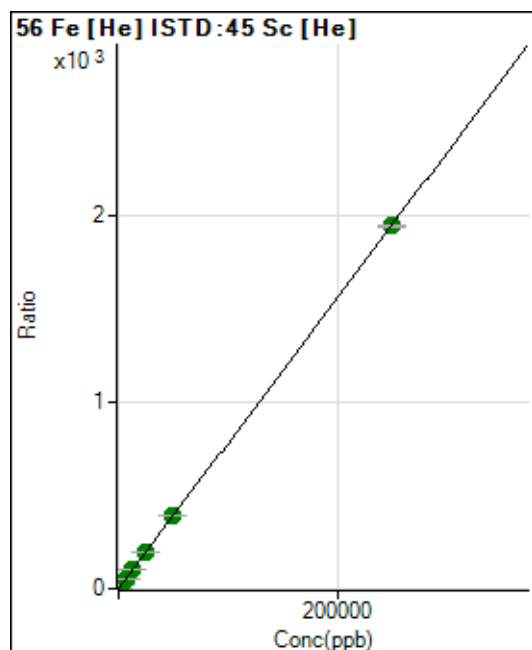
$$R = 0.9999$$

$$DL = 0.1146$$

$$BEC = 0.09795$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4158.20	0.0171	P	10.7
2	☐	50.000	50.671	104893.52	0.4112	P	2.2
3	☐	2500.000	2747.837	5452042.37	21.3919	A	1.3
4	☐	6250.000	6690.679	13366558.86	52.0623	A	4.0
5	☐	12500.000	12853.718	25969373.50	100.0031	A	0.8
6	☐	25000.000	24966.528	52216687.74	194.2259	A	1.4
7	☐	50000.000	50414.478	104884755.1	392.1795	A	0.2
8	☐	250000.00	249889.27	487711633.1	1,943.847	A	0.7

$$y = 0.0078 * x + 0.0171$$

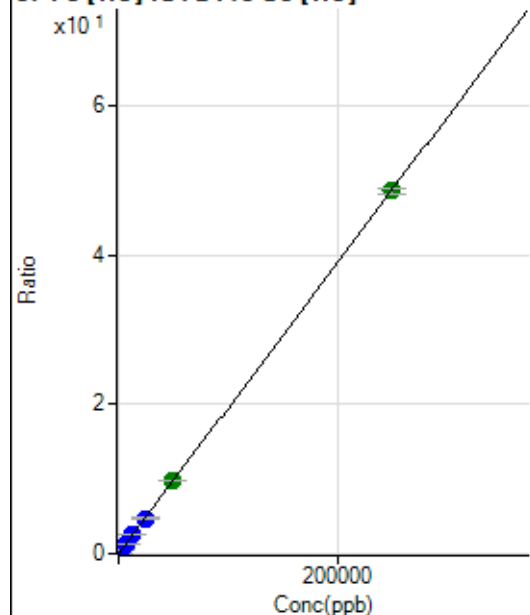
$$R = 1.0000$$

$$DL = 0.7047$$

$$BEC = 2.195$$

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	233.34	0.0010	P	14.2
2	☐	50.000	48.956	2676.23	0.0105	P	3.7
3	☐	2500.000	2690.748	133850.14	0.5252	P	1.6
4	☐	6250.000	6554.142	327996.44	1.2779	P	4.8
5	☐	12500.000	12774.993	646577.53	2.4899	P	0.2
6	☐	25000.000	24461.164	1281504.09	4.7667	P	1.2
7	☐	50000.000	50673.145	2640610.13	9.8735	A	1.0
8	☐	250000.00	249895.99	12215486.38	48.6876	A	1.3

$$y = 1.9483\text{E-}004 * x + 9.5574\text{E-}004$$

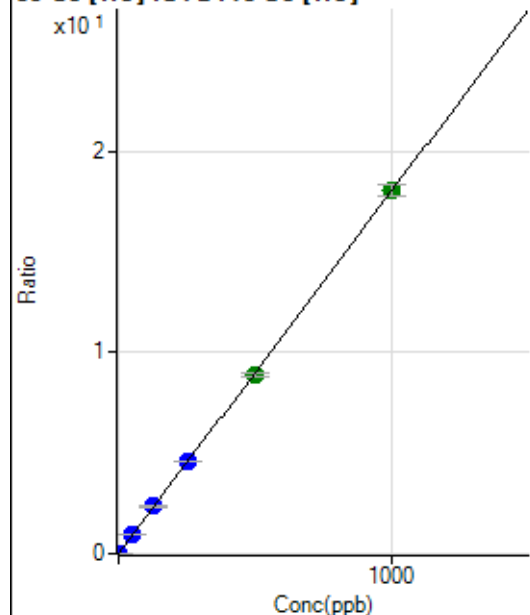
$$R = 1.0000$$

$$DL = 2.094$$

$$BEC = 4.906$$

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	84.44	0.0003	P	27.3
2	☐	1.000	1.050	4918.68	0.0193	P	2.7
3	☐	50.000	54.003	248249.76	0.9740	P	1.5
4	☐	125.000	131.204	607157.59	2.3660	P	5.4
5	☐	250.000	254.373	1191101.53	4.5868	P	0.5
6	☐	500.000	494.006	2394645.12	8.9074	A	1.6
7	☐	1000.000	1000.928	4826434.62	18.0474	A	3.1
8	☐			6689.41	0.0267	P	3.2

$$y = 0.0180 * x + 3.4734\text{E-}004$$

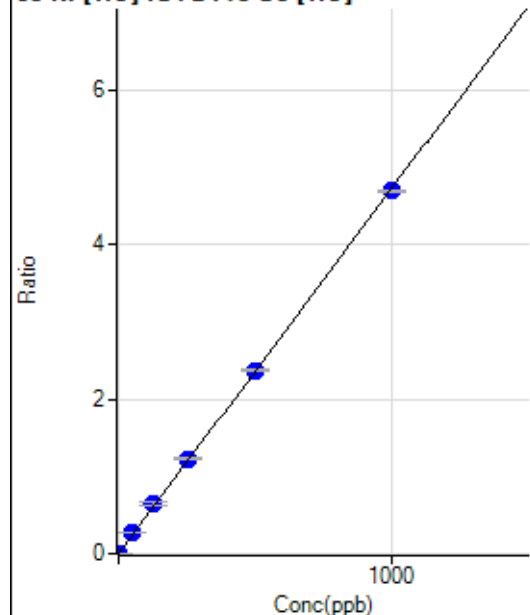
$$R = 0.9999$$

$$DL = 0.01577$$

$$BEC = 0.01926$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	138.89	0.0006	P	14.1
2	☐	1.000	1.062	1423.42	0.0056	P	7.1
3	☐	50.000	56.373	67960.43	0.2666	P	1.1
4	☐	125.000	136.441	165446.07	0.6446	P	4.7
5	☐	250.000	259.914	318711.87	1.2274	P	1.1
6	☐	500.000	503.051	638411.45	2.3749	P	1.9
7	☐	1000.000	994.247	1255195.69	4.6934	P	0.4
8	☐			2923.67	0.0117	P	6.3

$$y = 0.0047 * x + 5.7059E-004$$

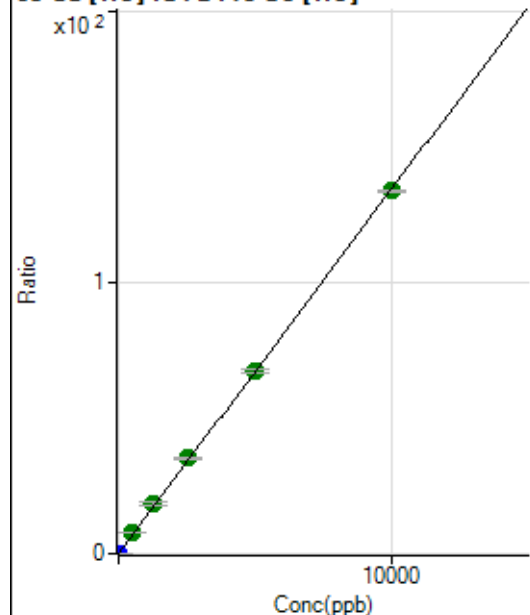
$$R = 0.9999$$

$$DL = 0.05125$$

$$BEC = 0.1209$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	977.82	0.0040	P	11.3
2	☐	2.000	2.150	8393.67	0.0329	P	2.8
3	☐	500.000	566.858	1942917.64	7.6236	A	2.1
4	☐	1250.000	1368.485	4721145.55	18.3988	A	5.5
5	☐	2500.000	2616.942	9135982.85	35.1801	A	1.6
6	☐	5000.000	4997.715	18061356.54	67.1818	A	1.6
7	☐	10000.000	9953.754	35784189.47	133.7993	A	0.8
8	☐			8649.38	0.0345	P	1.2

$$y = 0.0134 * x + 0.0040$$

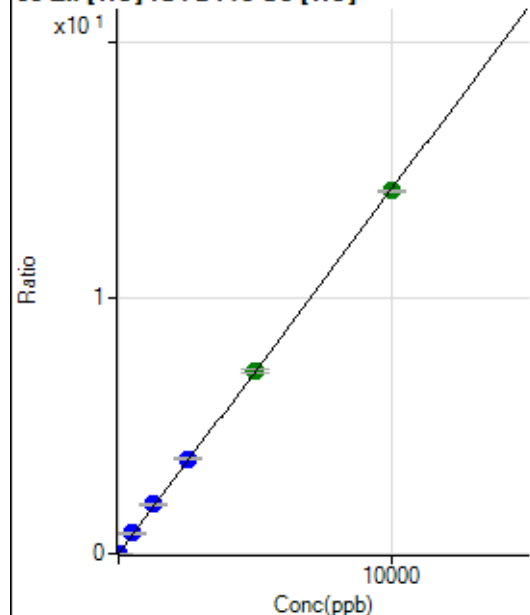
$$R = 0.9999$$

$$DL = 0.1011$$

$$BEC = 0.2987$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	291.12	0.0012	P	13.1
2	☐	2.000	2.564	1233.40	0.0048	P	5.6
3	☐	500.000	554.867	201413.76	0.7903	P	0.8
4	☐	1250.000	1349.032	492570.98	1.9196	P	5.7
5	☐	2500.000	2600.206	960562.09	3.6989	P	1.5
6	☐	5000.000	5003.700	1913145.46	7.1168	A	2.3
7	☐	10000.000	9957.976	3787433.07	14.1622	A	0.5
8	☐			8169.09	0.0326	P	1.7

$$y = 0.0014 * x + 0.0012$$

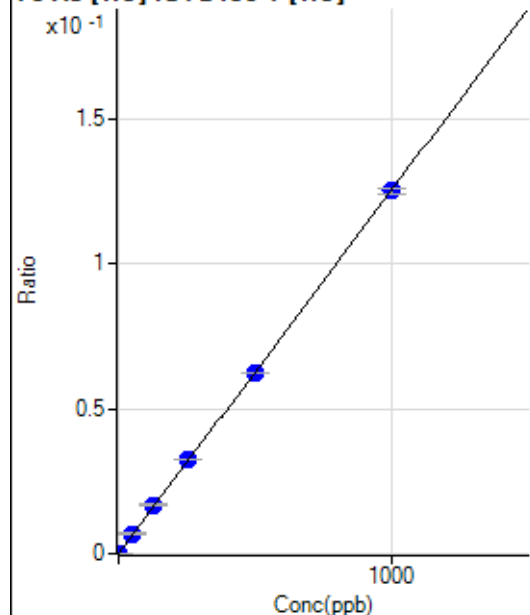
$$R = 0.9999$$

$$DL = 0.3295$$

$$BEC = 0.8374$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	10.67	0.0000	P	22.0
2	☐	1.000	1.052	250.36	0.0001	P	1.9
3	☐	50.000	55.223	12530.81	0.0069	P	1.5
4	☐	125.000	133.455	30542.25	0.0167	P	3.7
5	☐	250.000	258.229	60248.30	0.0324	P	0.5
6	☐	500.000	496.573	119081.41	0.0622	P	0.4
7	☐	1000.000	998.338	239353.08	0.1251	P	1.6
8	☐			75.68	0.0000	P	12.4

$$y = 1.2535E-004 * x + 6.2180E-006$$

$$R = 0.9999$$

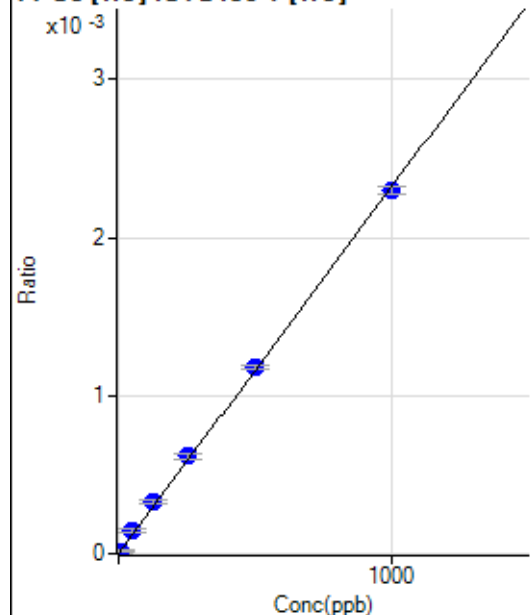
$$DL = 0.0328$$

$$BEC = 0.04961$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1.11	0.0000	P	173.
2	☐	5.000	6.077	26.67	0.0000	P	65.2
3	☐	50.000	64.535	272.23	0.0002	P	18.3
4	☐	125.000	140.188	594.47	0.0003	P	6.8
5	☐	250.000	265.686	1147.84	0.0006	P	6.5
6	☐	500.000	508.759	2257.98	0.0012	P	1.6
7	☐	1000.000	989.068	4387.40	0.0023	P	2.0
8	☐			1.11	0.0000	P	173.

$$y = 2.3186\text{E-}006 * x + 6.6479\text{E-}007$$

$$R = 0.9997$$

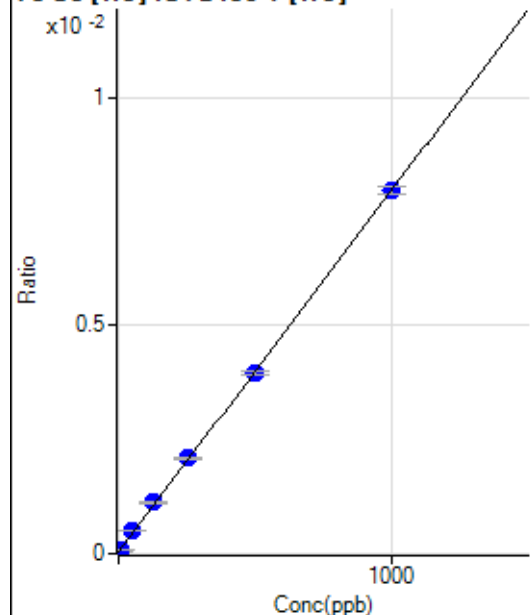
$$DL = 1.49$$

$$BEC = 0.2867$$

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	67.34	0.0000	P	26.6
2	☐	5.000	4.980	142.68	0.0001	P	8.9
3	☐	50.000	57.743	899.12	0.0005	P	2.7
4	☐	125.000	137.607	2065.03	0.0011	P	3.8
5	☐	250.000	259.557	3904.94	0.0021	P	1.5
6	☐	500.000	494.623	7582.15	0.0040	P	1.5
7	☐	1000.000	998.336	15222.42	0.0080	P	2.3
8	☐			63.01	0.0000	P	10.3

$$y = 7.9333\text{E-}006 * x + 3.9087\text{E-}005$$

$$R = 0.9999$$

$$DL = 3.925$$

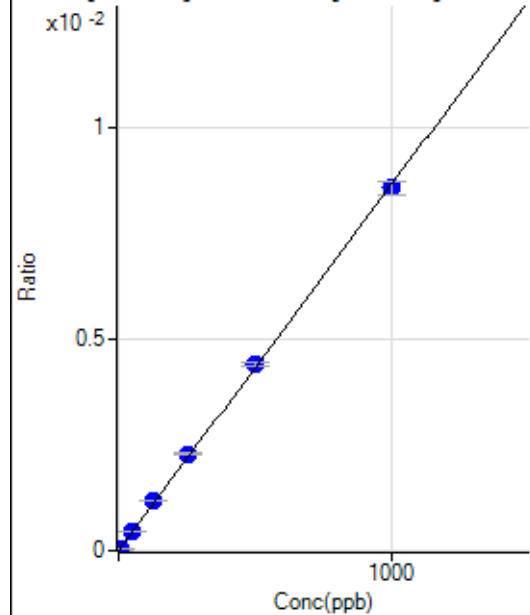
$$BEC = 4.927$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			24724.30		P	1.6
2	☐			25783.96		P	3.1
3	☐			24403.58		P	4.6
4	☐			25436.27		P	3.1
5	☐			25630.27		P	2.8
6	☐			24022.24		P	0.7
7	☐			24954.93		P	2.6
8	☐			24506.71		P	3.3

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	-57.37	0.0000	P	-94.
2	☐	5.000	5.745	723.49	0.0000	P	1.4
3	☐	50.000	52.959	7641.15	0.0005	P	3.5
4	☐	125.000	135.321	19087.12	0.0012	P	1.3
5	☐	250.000	265.097	37926.46	0.0023	P	1.9
6	☐	500.000	507.923	74978.50	0.0044	P	1.7
7	☐	1000.000	990.822	149338.32	0.0086	P	3.5
8	☐			42.87	0.0000	P	291.

$$y = 8.6749E-006 * x - 3.6886E-006$$

$$R = 0.9998$$

$$DL = 1.205$$

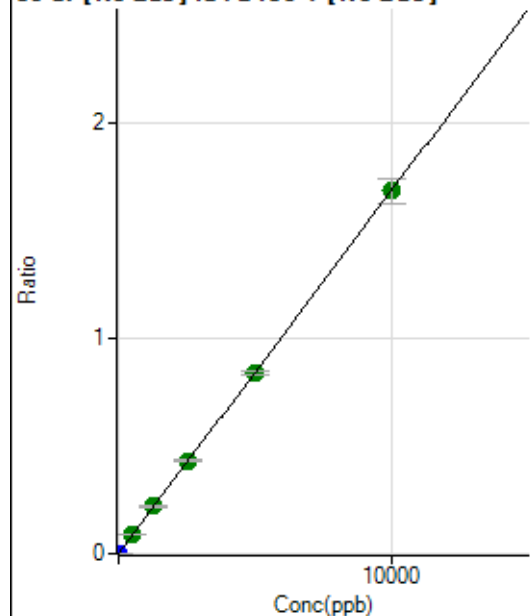
$$BEC = -0.4252$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3147.05		P	2.6
2	☐			3150.39		P	1.6
3	☐			3258.19		P	2.3
4	☐			3135.94		P	2.7
5	☐			3090.37		P	3.6
6	☐			3128.16		P	6.6
7	☐			3214.84		P	3.6
8	☐			3213.73		P	2.4

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	4873.19	0.0003	P	5.6
2	☐	1.000	1.045	7674.51	0.0005	P	4.7
3	☐	500.000	515.750	1463773.29	0.0873	A	3.8
4	☐	1250.000	1311.283	3612359.54	0.2215	A	2.9
5	☐	2500.000	2563.496	7148009.10	0.4327	A	2.2
6	☐	5000.000	4967.210	14276276.36	0.8382	A	1.9
7	☐	10000.000	9992.073	29280578.43	1.6858	A	6.7
8	☐			23664.95	0.0015	P	2.4

$$y = 1.6868\text{E-}004 * x + 3.1318\text{E-}004$$

$$R = 1.0000$$

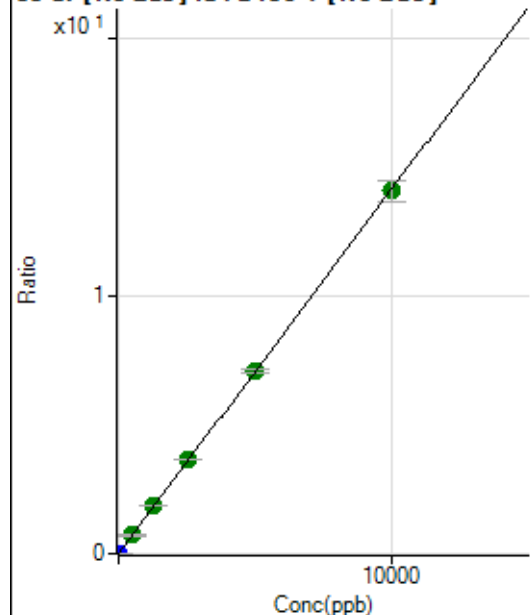
$$DL = 0.3134$$

$$BEC = 1.857$$

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	258.38	0.0000	P	69.1
2	☐	1.000	1.069	23951.90	0.0015	P	1.6
3	☐	500.000	508.142	12037676.49	0.7182	A	4.8
4	☐	1250.000	1320.586	30451664.92	1.8666	A	1.6
5	☐	2500.000	2590.920	60495038.85	3.6621	A	0.9
6	☐	5000.000	5019.473	120832386.0	7.0947	A	1.5
7	☐	10000.000	9958.303	244543913.8	14.0753	A	5.7
8	☐			159718.81	0.0099	P	4.9

$$y = 0.0014 * x + 1.6434E-005$$

$$R = 0.9999$$

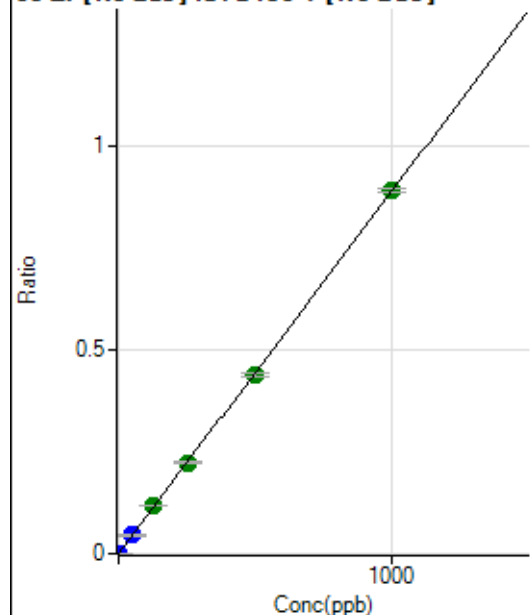
$$DL = 0.0241$$

$$BEC = 0.01163$$

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	830.60	0.0001	P	5.4
2	☐	1.000	1.027	15139.14	0.0010	P	0.9
3	☐	50.000	51.207	763006.58	0.0455	P	6.2
4	☐	125.000	134.004	1942702.15	0.1191	A	0.4
5	☐	250.000	251.867	3696818.70	0.2238	A	0.6
6	☐	500.000	492.577	7452753.55	0.4376	A	2.1
7	☐	1000.000	1002.059	15482530.03	0.8902	A	1.1
8	☐			7538.37	0.0005	P	5.4

$$y = 8.8830E-004 * x + 5.3342E-005$$

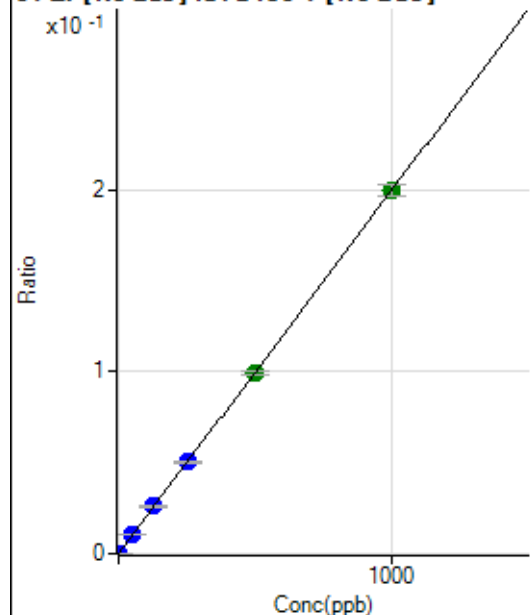
$$R = 0.9999$$

$$DL = 0.009734$$

$$BEC = 0.06005$$

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	186.12	0.0000	P	4.0
2	☐	1.000	0.938	3122.65	0.0002	P	2.1
3	☐	50.000	51.603	172882.16	0.0103	P	3.3
4	☐	125.000	130.908	426292.07	0.0261	P	2.4
5	☐	250.000	252.738	833409.73	0.0505	P	1.4
6	☐	500.000	498.522	1694624.41	0.0995	A	1.7
7	☐	1000.000	999.236	3467491.70	0.1994	A	3.0
8	☐			1652.92	0.0001	P	8.9

$$y = 1.9957E-004 * x + 1.1959E-005$$

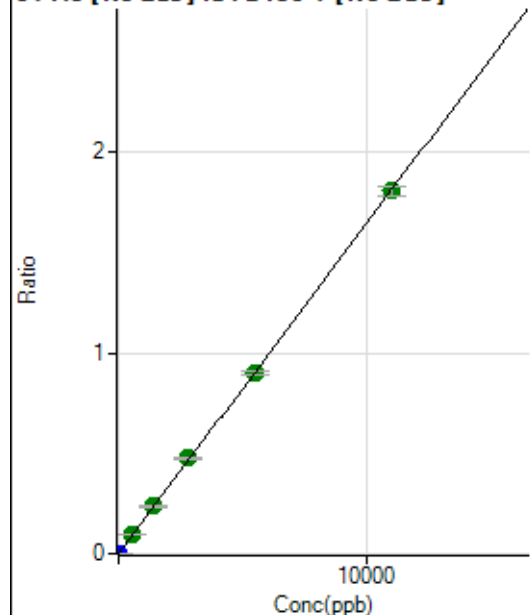
$$R = 1.0000$$

$$DL = 0.007232$$

$$BEC = 0.05992$$

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	358.35	0.0000	P	10.9
2	☐	5.000	6.505	17161.11	0.0011	P	3.0
3	☐	550.000	571.170	1579297.08	0.0941	A	1.5
4	☐	1375.000	1433.579	3852371.35	0.2362	A	3.4
5	☐	2750.000	2894.712	7879270.23	0.4770	A	1.5
6	☐	5500.000	5461.605	15325601.21	0.8999	A	2.3
7	☐	11000.000	10974.638	31437104.17	1.8083	A	3.0
8	☐			8319.40	0.0005	P	15.6

$$y = 1.6477E-004 * x + 2.2993E-005$$

$$R = 0.9999$$

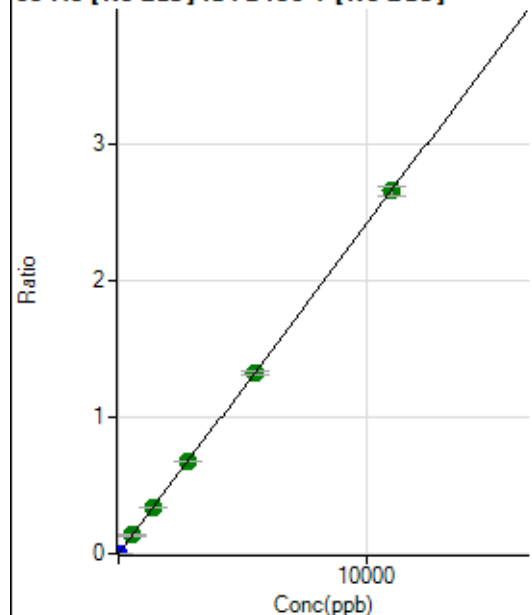
$$DL = 0.0457$$

$$BEC = 0.1395$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	72.23	0.0000	P	17.7
2	☐	5.000	5.404	20579.68	0.0013	P	1.4
3	☐	550.000	558.546	2267234.60	0.1352	A	3.1
4	☐	1375.000	1403.247	5540200.43	0.3397	A	2.2
5	☐	2750.000	2797.638	11187235.84	0.6772	A	1.1
6	☐	5500.000	5480.161	22595519.77	1.3266	A	1.3
7	☐	11000.000	10994.051	46270412.14	2.6613	A	2.6
8	☐			9031.07	0.0006	P	21.2

$$y = 2.4206\text{E-}004 * x + 4.6390\text{E-}006$$

$$R = 1.0000$$

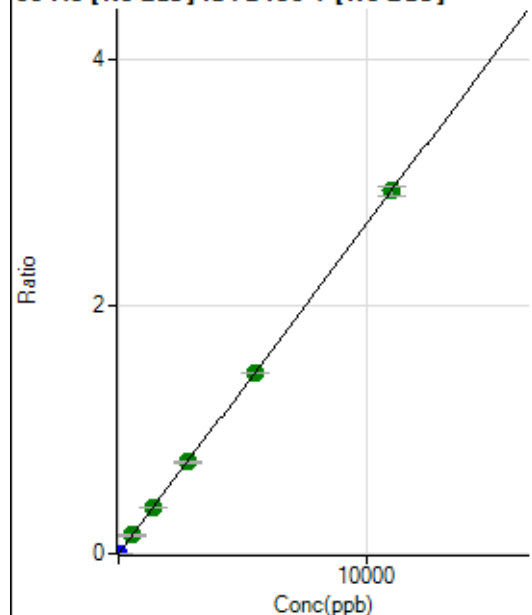
$$DL = 0.0102$$

$$BEC = 0.01916$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	177.78	0.0000	P	20.9
2	☐	5.000	5.338	22479.96	0.0014	P	3.3
3	☐	550.000	558.234	2494951.68	0.1488	A	3.4
4	☐	1375.000	1395.548	6066944.58	0.3720	A	2.1
5	☐	2750.000	2794.201	12303813.64	0.7448	A	2.1
6	☐	5500.000	5478.408	24874148.13	1.4602	A	0.8
7	☐	11000.000	10996.765	50963006.69	2.9311	A	2.4
8	☐			18543.65	0.0012	P	10.9

$$y = 2.6654\text{E-}004 * x + 1.1442\text{E-}005$$

$$R = 1.0000$$

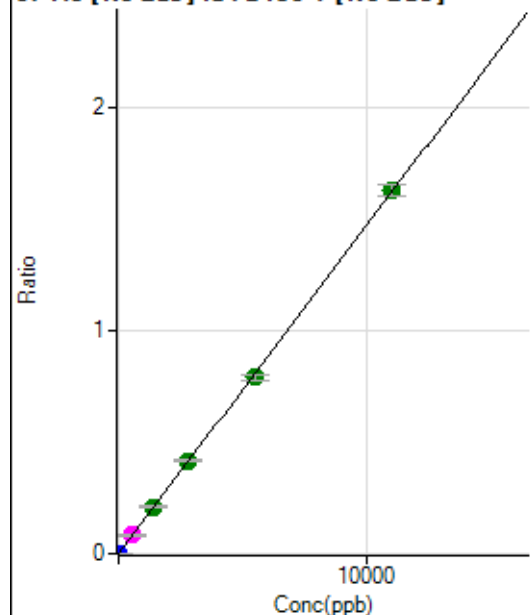
$$DL = 0.0269$$

$$BEC = 0.04293$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	38.89	0.0000	P	45.8
2	☐	5.000	5.337	12380.87	0.0008	P	2.0
3	☐	550.000	567.400	1402568.69	0.0837	M	5.5
4	☐	1375.000	1429.731	3439810.84	0.2109	A	1.9
5	☐	2750.000	2830.507	6897563.96	0.4175	A	0.9
6	☐	5500.000	5358.999	13461899.26	0.7905	A	2.4
7	☐	11000.000	11042.663	28316180.84	1.6289	A	3.2
8	☐			5417.90	0.0003	P	20.7

$$y = 1.4751E-004 * x + 2.5043E-006$$

$$R = 0.9998$$

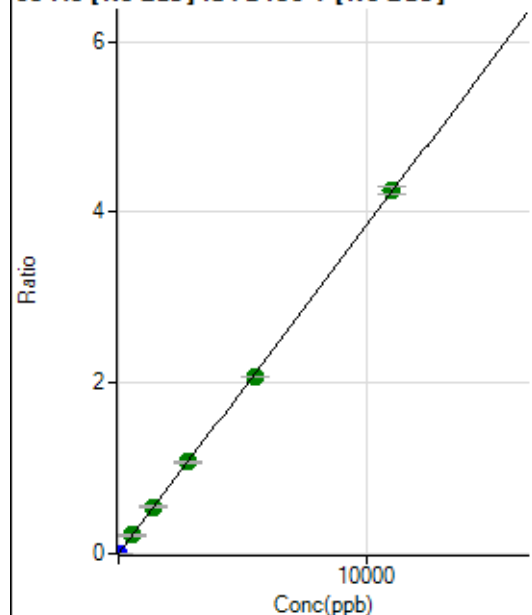
$$DL = 0.02334$$

$$BEC = 0.01698$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	125.01	0.0000	P	29.1
2	☐	5.000	5.160	31244.39	0.0020	P	4.5
3	☐	550.000	559.979	3611653.64	0.2155	A	5.0
4	☐	1375.000	1407.130	8829843.42	0.5415	A	4.0
5	☐	2750.000	2798.015	17787543.97	1.0767	A	1.4
6	☐	5500.000	5382.501	35278183.77	2.0712	A	0.8
7	☐	11000.000	11042.231	73882236.37	4.2490	A	2.1
8	☐			13554.42	0.0008	P	23.2

$$y = 3.8480E-004 * x + 8.0062E-006$$

$$R = 0.9999$$

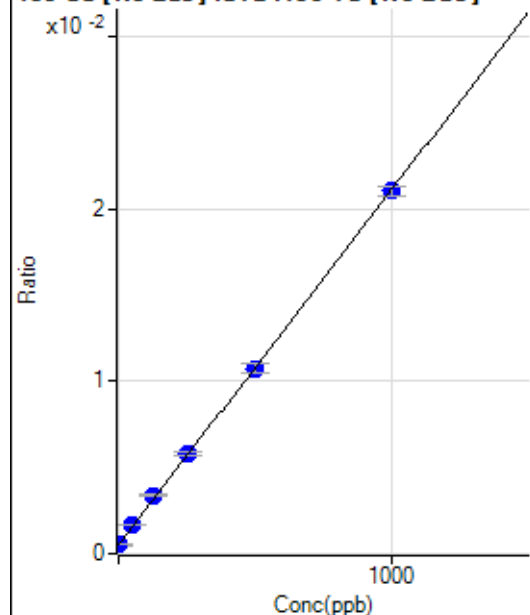
$$DL = 0.01816$$

$$BEC = 0.02081$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4267.47	0.0005	P	5.6
2	☐	1.000	1.001	4523.10	0.0005	P	2.2
3	☐	50.000	55.308	15136.51	0.0016	P	1.5
4	☐	125.000	140.236	30000.05	0.0034	P	3.0
5	☐	250.000	256.583	53533.14	0.0058	P	4.7
6	☐	500.000	497.851	102357.59	0.0108	P	4.5
7	☐	1000.000	997.259	204960.39	0.0210	P	2.3
8	☐			4889.88	0.0005	P	1.9

$$y = 2.0595\text{E-}005 * x + 5.0267\text{E-}004$$

$$R = 0.9999$$

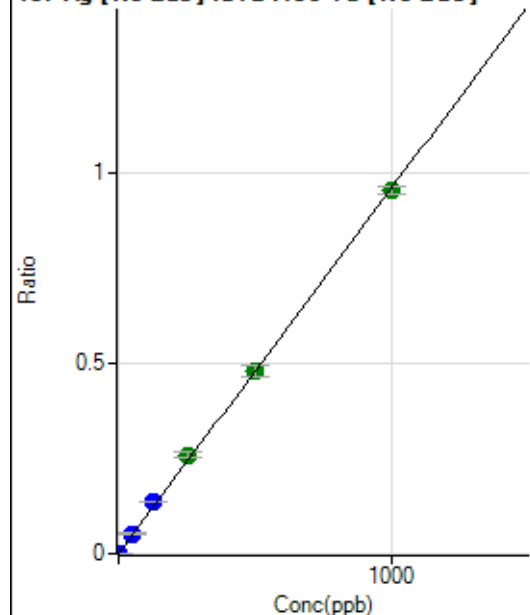
$$DL = 4.066$$

$$BEC = 24.41$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	111.11	0.0000	P	17.8
2	☐	1.000	1.050	8830.85	0.0010	P	1.9
3	☐	50.000	54.774	484808.99	0.0526	P	4.2
4	☐	125.000	141.006	1198665.94	0.1355	P	1.2
5	☐	250.000	269.049	2390001.75	0.2585	A	5.5
6	☐	500.000	500.091	4570171.59	0.4804	A	6.9
7	☐	1000.000	992.953	9291917.74	0.9538	A	2.2
8	☐			3495.00	0.0004	P	16.1

$$y = 9.6059\text{E-}004 * x + 1.3115\text{E-}005$$

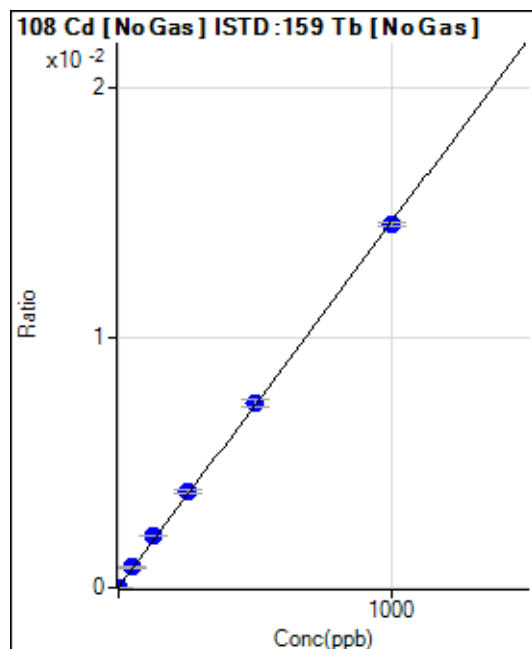
$$R = 0.9997$$

$$DL = 0.007303$$

$$BEC = 0.01365$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	66.67	0.0000	P	56.7
2	☐	1.000	0.783	166.67	0.0000	P	23.9
3	☐	50.000	55.394	7525.76	0.0008	P	3.0
4	☐	125.000	142.053	18419.45	0.0021	P	2.4
5	☐	250.000	261.433	35380.37	0.0038	P	4.4
6	☐	500.000	504.893	70224.35	0.0074	P	5.0
7	☐	1000.000	992.294	141216.13	0.0145	P	1.1
8	☐			145.84	0.0000	P	10.5

$$y = 1.4601\text{E-}005 * x + 7.8815\text{E-}006$$

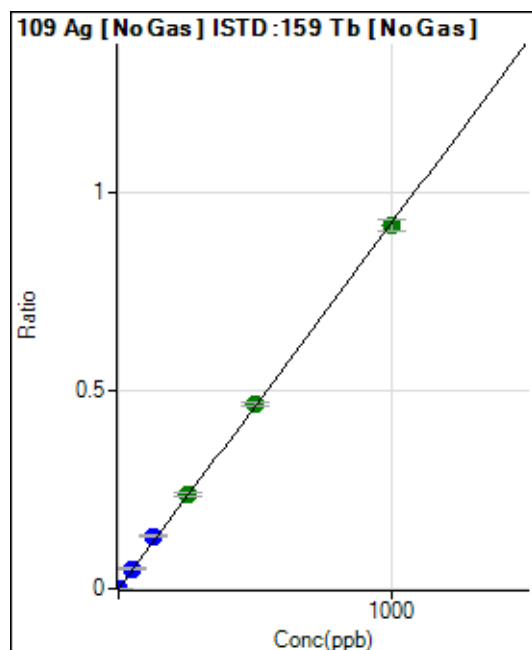
$$R = 0.9998$$

$$DL = 0.918$$

$$BEC = 0.5398$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	83.34	0.0000	P	37.4
2	☐	1.000	1.027	8274.98	0.0010	P	4.1
3	☐	50.000	54.549	462992.57	0.0503	P	7.4
4	☐	125.000	142.378	1161399.66	0.1313	P	3.9
5	☐	250.000	258.309	2204846.62	0.2382	A	3.7
6	☐	500.000	505.447	4437211.13	0.4662	A	2.6
7	☐	1000.000	992.800	8917688.65	0.9156	A	3.1
8	☐			3422.75	0.0004	P	10.6

$$y = 9.2227\text{E-}004 * x + 9.8411\text{E-}006$$

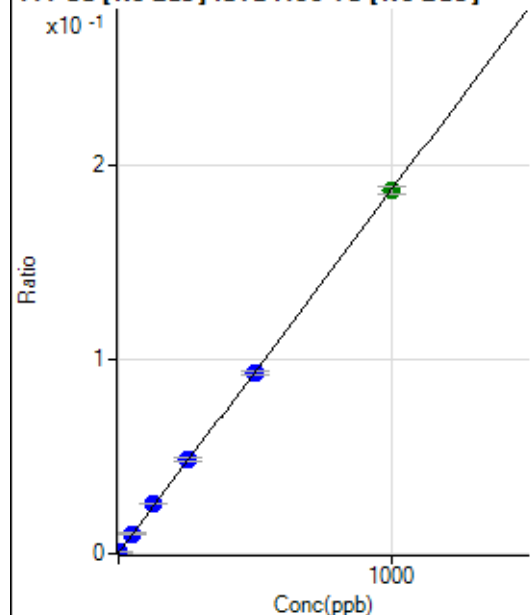
$$R = 0.9998$$

$$DL = 0.01198$$

$$BEC = 0.01067$$

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	2960.01	0.0003	P	5.1
2	☐	1.000	1.127	4834.36	0.0006	P	2.0
3	☐	50.000	52.398	93384.10	0.0101	P	5.9
4	☐	125.000	135.395	227009.40	0.0257	P	2.1
5	☐	250.000	258.371	450142.82	0.0486	P	2.8
6	☐	500.000	497.369	888362.65	0.0933	P	2.4
7	☐	1000.000	997.803	1820312.90	0.1869	A	2.3
8	☐			3920.86	0.0004	P	2.0

$$y = 1.8694\text{E-}004 * x + 3.4866\text{E-}004$$

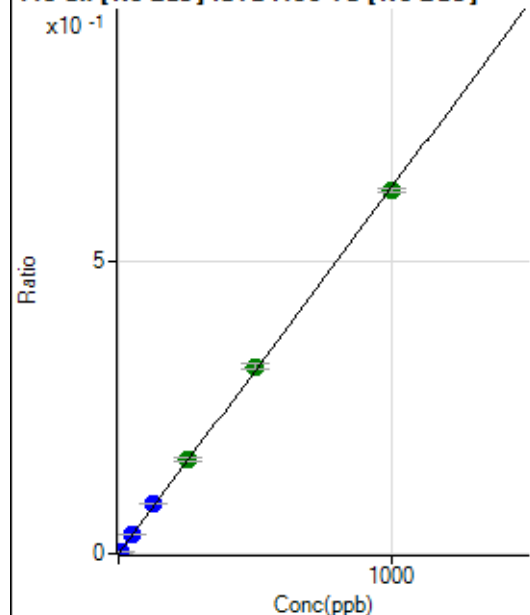
$$R = 0.9999$$

$$DL = 0.287$$

$$BEC = 1.865$$

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	669.48	0.0001	P	12.1
2	☐	5.000	5.347	29699.71	0.0034	P	1.1
3	☐	50.000	51.989	301244.59	0.0327	P	5.2
4	☐	125.000	135.784	754873.72	0.0853	P	1.7
5	☐	250.000	258.528	1502036.50	0.1624	A	3.8
6	☐	500.000	511.318	3055927.76	0.3211	A	3.6
7	☐	1000.000	990.760	6059356.78	0.6220	A	1.1
8	☐			2930.93	0.0003	P	9.1

$$y = 6.2775\text{E-}004 * x + 7.8869\text{E-}005$$

$$R = 0.9998$$

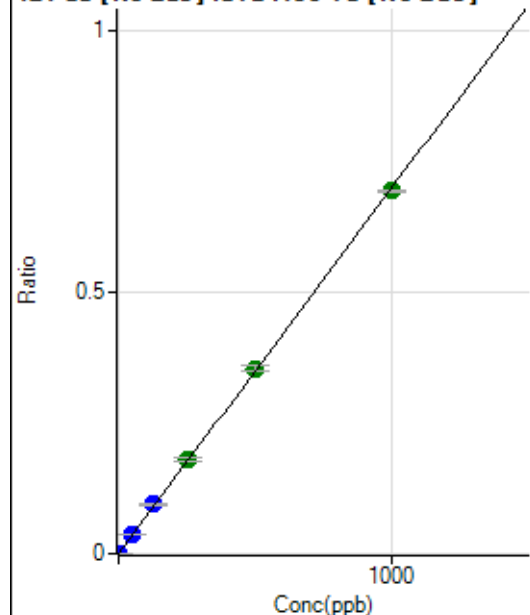
$$DL = 0.04556$$

$$BEC = 0.1256$$

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	97.23	0.0000	P	25.8
2	☐	2.000	2.034	12386.52	0.0014	P	5.1
3	☐	50.000	52.373	337106.13	0.0366	P	5.3
4	☐	125.000	135.108	835292.10	0.0944	P	3.4
5	☐	250.000	258.634	1672087.65	0.1808	A	4.4
6	☐	500.000	507.337	3374544.00	0.3546	A	3.7
7	☐	1000.000	992.791	6758982.14	0.6938	A	0.4
8	☐			5751.36	0.0006	P	5.6

$$y = 6.9884\text{E-}004 * x + 1.1400\text{E-}005$$

$$R = 0.9999$$

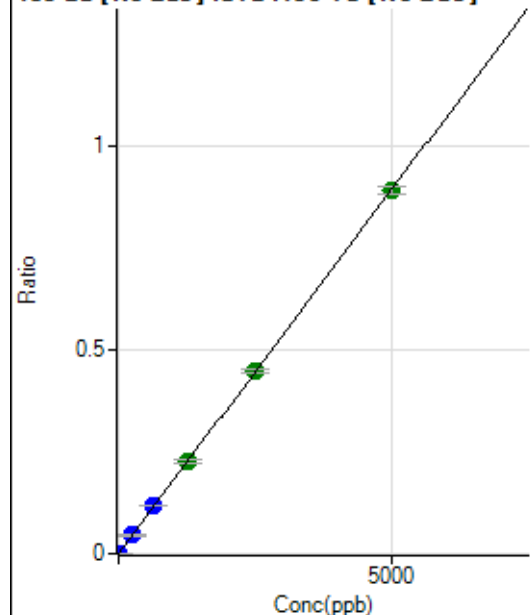
$$DL = 0.01263$$

$$BEC = 0.01631$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	30.56	0.0000	P	34.2
2	☐	10.000	9.789	15136.61	0.0018	P	3.1
3	☐	250.000	256.555	421630.66	0.0458	P	6.4
4	☐	625.000	659.542	1041761.20	0.1178	P	2.3
5	☐	1250.000	1274.459	2105187.68	0.2275	A	3.3
6	☐	2500.000	2509.859	4265453.44	0.4481	A	2.5
7	☐	5000.000	4984.311	8667829.45	0.8899	A	2.1
8	☐			2772.58	0.0003	P	6.8

$$y = 1.7854\text{E-}004 * x + 3.6165\text{E-}006$$

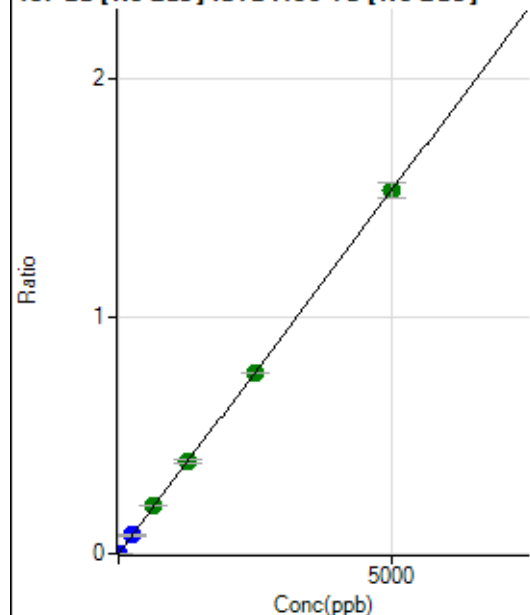
$$R = 1.0000$$

$$DL = 0.02079$$

$$BEC = 0.02026$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	50.00	0.0000	P	2.6
2	☐	10.000	9.845	26123.20	0.0030	P	1.5
3	☐	250.000	255.109	719472.13	0.0782	P	6.2
4	☐	625.000	658.035	1783533.72	0.2016	A	2.6
5	☐	1250.000	1265.419	3585736.67	0.3877	A	4.3
6	☐	2500.000	2493.280	7272714.22	0.7638	A	0.3
7	☐	5000.000	4995.120	14901847.38	1.5302	A	4.4
8	☐			4859.33	0.0005	P	7.9

$$y = 3.0634E-004 * x + 5.8875E-006$$

$$R = 1.0000$$

$$DL = 0.001488$$

$$BEC = 0.01922$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			11.11		P	34.6
2	☐			8.89		P	86.6
3	☐			20.00		P	33.4
4	☐			35.55		P	10.8
5	☐			131.12		P	33.1
6	☐			224.45		P	14.0
7	☐			413.35		P	23.3
8	☐			51.11		P	27.2

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	☐			1.11		P	173.
4	☐			6.67		P	50.0
5	☐			7.78		P	65.5
6	☐			8.89		P	21.6
7	☐			30.00		P	29.4
8	☐			15.55		P	44.6

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			22.22		P	57.3
2	☐			13.89		P	91.6
3	☐			19.44		P	65.5
4	☐			50.00		P	16.7
5	☐			77.78		P	30.9
6	☐			169.45		P	5.7
7	☐			255.57		P	21.7
8	☐			1166.75		P	7.0

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	173.
2	☐			6.67		P	0.0
3	☐			7.78		P	24.7
4	☐			20.00		P	28.9
5	☐			41.11		P	23.4
6	☐			92.22		P	7.5
7	☐			161.12		P	20.1
8	☐			563.36		P	8.5

160 Gd [No Gas] Noavailable calibration poin_

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			61.11		P	41.7
2	☐			66.67		P	21.7
3	☐			97.23		P	13.1
4	☐			91.67		P	9.1
5	☐			91.67		P	24.1
6	☐			177.79		P	16.5
7	☐			272.23		P	14.5
8	☐			897.28		P	8.4

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			71.11		P	9.8
2	☐			66.67		P	0.0
3	☐			96.67		P	24.9
4	☐			103.34		P	8.5
5	☐			116.67		P	8.6
6	☐			133.34		P	17.3
7	☐			213.34		P	18.0
8	☐			647.80		P	9.5

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			63.89		P	7.5
2	☐			52.78		P	39.7
3	☐			55.56		P	17.3
4	☐			52.78		P	39.7
5	☐			80.56		P	46.6
6	☐			88.89		P	30.1
7	☐			102.78		P	47.5
8	☐			211.12		P	2.3

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			22.22		P	22.9
2	☐			26.67		P	12.5
3	☐			30.00		P	50.9
4	☐			31.11		P	55.0
5	☐			41.11		P	38.3
6	☐			33.33		P	36.1
7	☐			51.11		P	18.8
8	☐			105.56		P	15.6

172 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			41.67		P	20.0
2	☐			30.55		P	83.3
3	☐			25.00		P	57.7
4	☐			33.34		P	43.3
5	☐			27.78		P	17.3
6	☐			22.22		P	78.1
7	☐			52.78		P	9.1
8	☐			97.23		P	24.7

172 Yb [He] No available calibration points

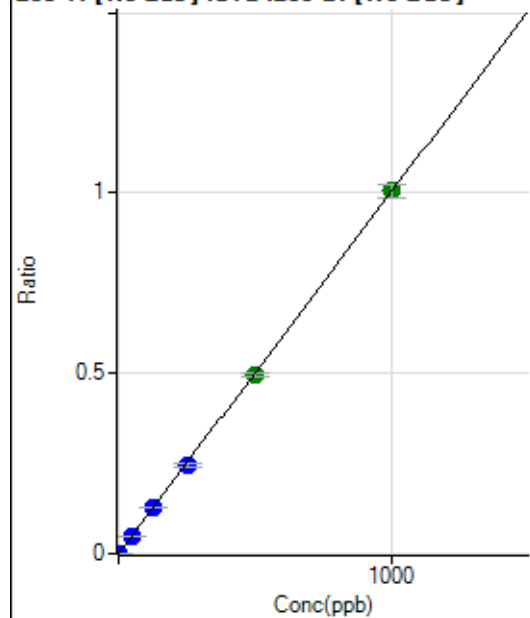
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			18.52		P	62.4
2	☐			14.82		P	21.7
3	☐			11.11		P	86.6
4	☐			14.81		P	43.3
5	☐			16.67		P	57.7
6	☐			12.97		P	98.9
7	☐			35.19		P	24.1
8	☐			46.30		P	48.5

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			966.74		P	5.2
2	☐			1177.87		P	4.5
3	☐			2189.13		P	1.5
4	☐			3403.31		P	3.4
5	☐			5923.74		P	1.4
6	☐			10971.51		P	1.1
7	☐			22063.41		P	0.2
8	☐			1097.30		P	15.4

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5662.45		P	5.9
2	☐			5892.15		P	4.8
3	☐			6486.90		P	3.5
4	☐			7672.78		P	4.6
5	☐			9212.63		P	1.7
6	☐			12476.46		P	5.2
7	☐			17899.41		P	2.0
8	☐			6351.64		P	4.7

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	433.36	0.0001	P	13.1
2	☐	1.000	0.903	4198.03	0.0010	P	1.1
3	☐	50.000	49.221	216979.34	0.0495	P	3.4
4	☐	125.000	127.283	555980.08	0.1278	P	2.2
5	☐	250.000	246.471	1106374.68	0.2474	P	4.3
6	☐	500.000	496.032	2255114.66	0.4978	A	2.4
7	☐	1000.000	1002.620	4689034.65	1.0061	A	3.4
8	☐			1227.87	0.0003	P	21.3

$$y = 0.0010 * x + 1.0514E-004$$

$$R = 1.0000$$

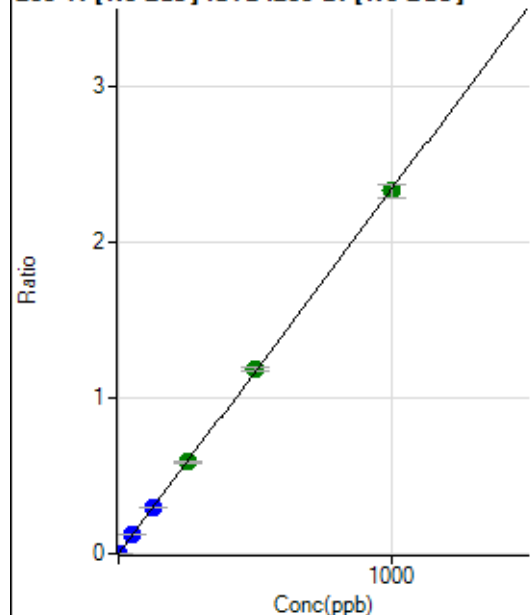
$$DL = 0.04129$$

$$BEC = 0.1048$$

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	941.73	0.0002	P	18.0
2	☐	1.000	0.961	10287.73	0.0025	P	1.0
3	☐	50.000	51.107	525411.78	0.1198	P	3.4
4	☐	125.000	127.011	1294044.60	0.2974	P	2.7
5	☐	250.000	250.814	2626980.05	0.5871	A	2.4
6	☐	500.000	506.352	5368930.07	1.1851	A	1.7
7	☐	1000.000	996.314	10868576.28	2.3317	A	3.4
8	☐			2983.77	0.0007	P	13.6

$$y = 0.0023 * x + 2.2796E-004$$

$$R = 1.0000$$

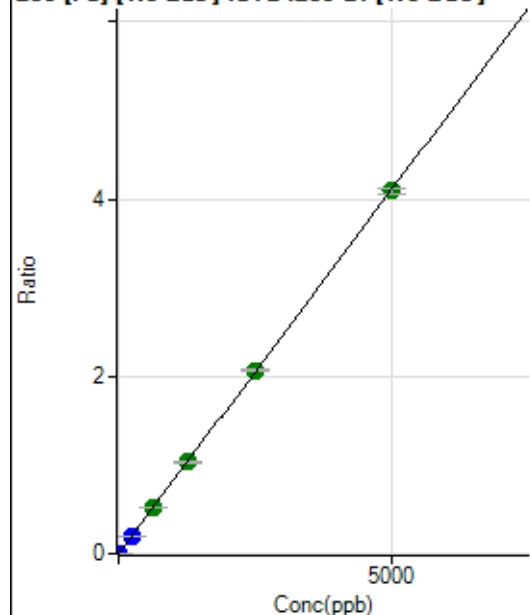
$$DL = 0.05247$$

$$BEC = 0.09742$$

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	533.35	0.0001	P	12.1
2	☐	1.000	0.985	3893.25	0.0009	P	1.5
3	☐	250.000	240.557	865826.84	0.1976	P	5.7
4	☐	625.000	640.894	2289309.23	0.5263	A	1.4
5	☐	1250.000	1256.917	4616995.53	1.0320	A	2.8
6	☐	2500.000	2519.867	9371223.47	2.0687	A	0.5
7	☐	5000.000	4986.823	19087044.64	4.0939	A	1.4
8	☐			7548.66	0.0019	P	8.7

$$y = 8.2092E-004 * x + 1.2927E-004$$

$$R = 1.0000$$

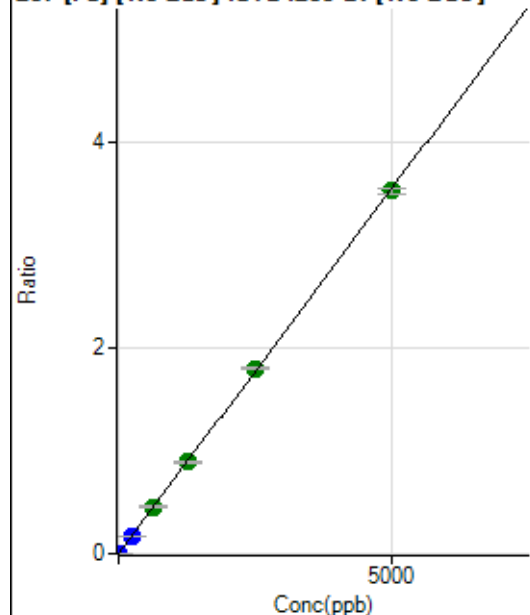
$$DL = 0.05709$$

$$BEC = 0.1575$$

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	500.02	0.0001	P	12.4
2	☐	1.000	0.932	3252.31	0.0008	P	3.1
3	☐	250.000	242.139	754772.01	0.1722	P	5.3
4	☐	625.000	645.110	1995066.53	0.4586	A	0.8
5	☐	1250.000	1262.236	4014434.52	0.8972	A	2.5
6	☐	2500.000	2543.066	8187992.78	1.8075	A	1.3
7	☐	5000.000	4973.287	16481148.86	3.5346	A	1.5
8	☐			6368.36	0.0016	P	11.3

$$y = 7.1069\text{E-}004 * x + 1.2110\text{E-}004$$

$$R = 0.9999$$

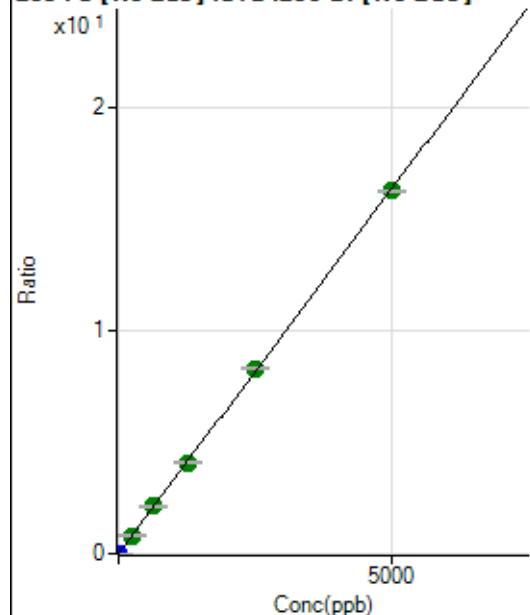
$$DL = 0.06334$$

$$BEC = 0.1704$$

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	2205.67	0.0005	P	3.6
2	☐	1.000	0.950	15109.28	0.0036	P	0.9
3	☐	250.000	247.365	3545403.07	0.8089	A	4.5
4	☐	625.000	646.814	9197788.71	2.1143	A	1.3
5	☐	1250.000	1252.236	18315203.89	4.0929	A	2.5
6	☐	2500.000	2539.458	37595451.65	8.2995	A	1.0
7	☐	5000.000	4977.117	75842395.33	16.2658	A	0.8
8	☐			29246.74	0.0073	P	8.8

$$y = 0.0033 * x + 5.3440\text{E-}004$$

$$R = 0.9999$$

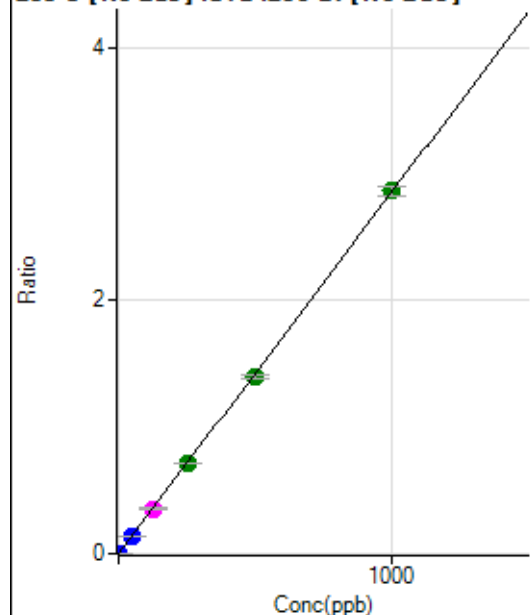
$$DL = 0.01789$$

$$BEC = 0.1635$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	16.67	0.0000	P	133.
2	☐	1.000	0.927	10999.53	0.0026	P	2.4
3	☐	50.000	47.858	598096.17	0.1365	P	6.9
4	☐	125.000	124.377	1543125.71	0.3548	M	3.6
5	☐	250.000	250.922	3201947.94	0.7158	A	1.3
6	☐	500.000	490.108	6332821.41	1.3981	A	2.5
7	☐	1000.000	1004.901	13363703.77	2.8665	A	2.5
8	☐			1569.59	0.0004	P	18.5

$$y = 0.0029 * x + 4.0394E-006$$

$$R = 0.9999$$

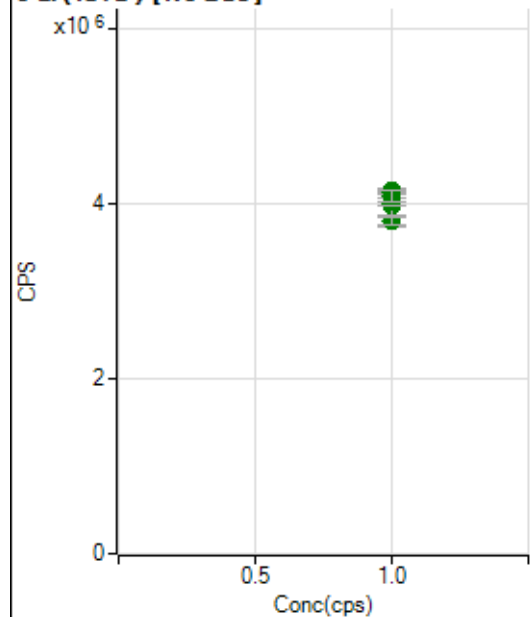
$$DL = 0.00565$$

$$BEC = 0.001416$$

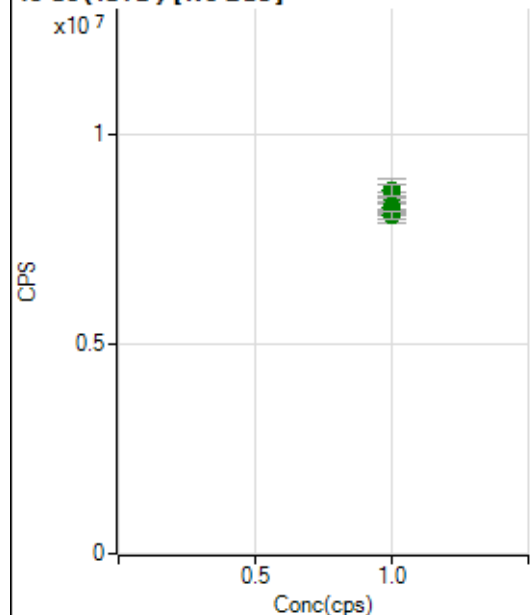
Weight: <None>

Min Conc: 0

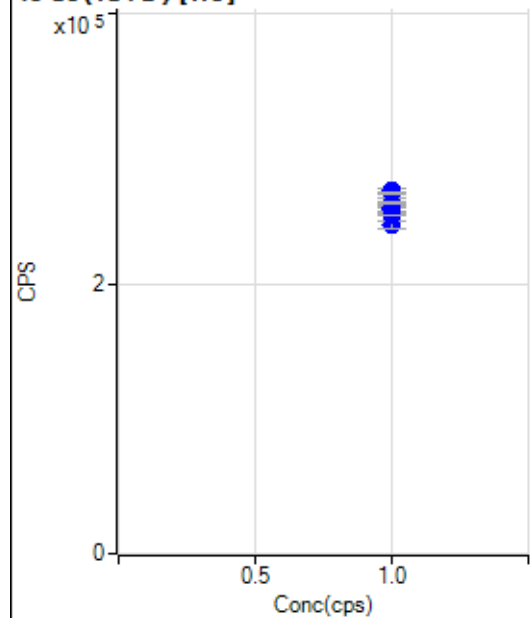
6 Li (ISTD) [No Gas]



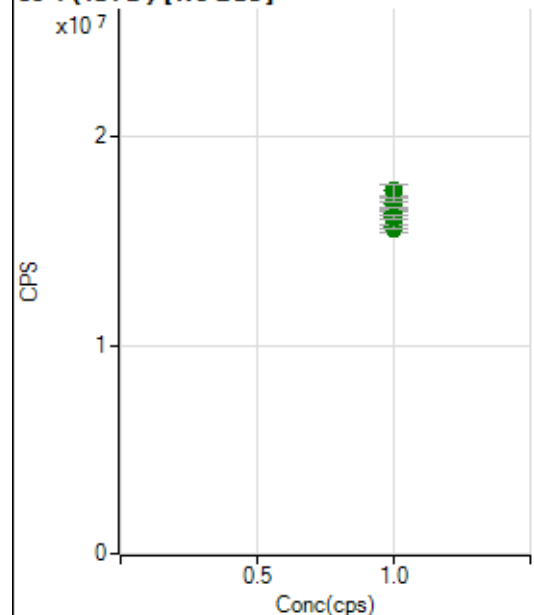
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		3797381.04		A	2.5
2	☐	1.000		3808082.33		A	2.3
3	☐	1.000		4005361.58		A	6.1
4	☐	1.000		3974784.62		A	4.7
5	☐	1.000		4032530.31		A	2.3
6	☐	1.000		4151767.23		A	1.8
7	☐	1.000		4143110.97		A	1.2
8	☐	1.000		4101888.36		A	3.2

45 Sc (ISTD) [No Gas]

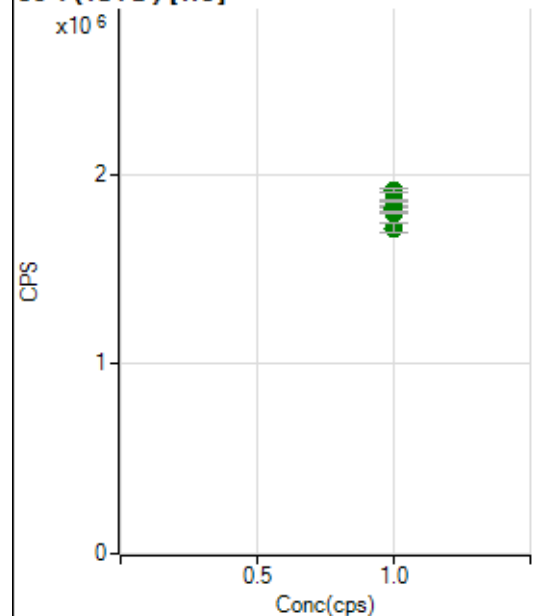
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8056957.94		A	3.6
2	☐	1.000		8079006.40		A	0.2
3	☐	1.000		8644310.57		A	6.7
4	☐	1.000		8243446.47		A	3.1
5	☐	1.000		8390941.96		A	0.4
6	☐	1.000		8550189.11		A	1.3
7	☐	1.000		8654958.20		A	3.1
8	☐	1.000		8075277.86		A	2.0

45 Sc (ISTD) [He]

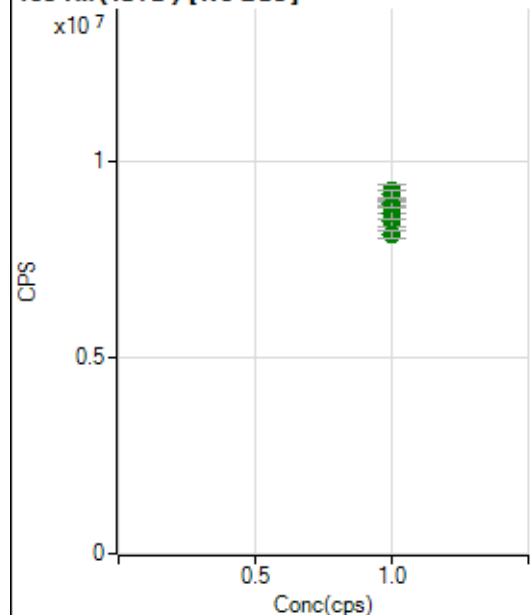
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		243993.44		P	2.5
2	☐	1.000		255139.22		P	1.7
3	☐	1.000		254884.34		P	0.9
4	☐	1.000		257117.56		P	5.4
5	☐	1.000		259681.46		P	0.4
6	☐	1.000		268845.79		P	1.5
7	☐	1.000		267438.17		P	0.6
8	☐	1.000		250904.75		P	0.5

89 Y (ISTD) [No Gas]

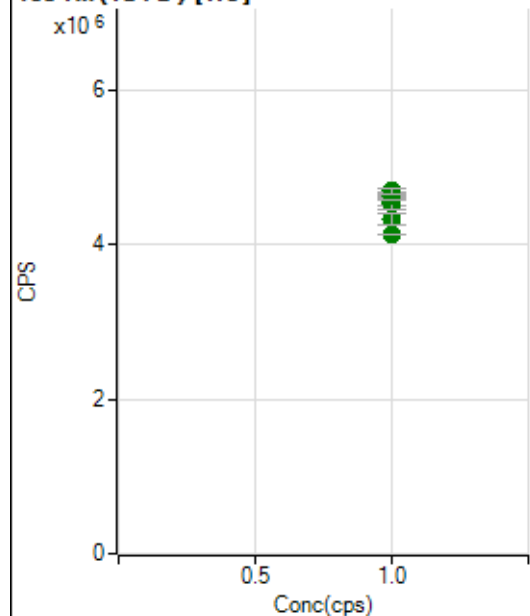
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		15570433.93		A	2.2
2	☐	1.000		15677125.74		A	1.0
3	☐	1.000		16782984.89		A	4.2
4	☐	1.000		16313027.81		A	1.5
5	☐	1.000		16519832.53		A	0.6
6	☐	1.000		17034432.25		A	1.8
7	☐	1.000		17396716.13		A	3.6
8	☐	1.000		16124846.15		A	1.4

89 Y (ISTD) [He]

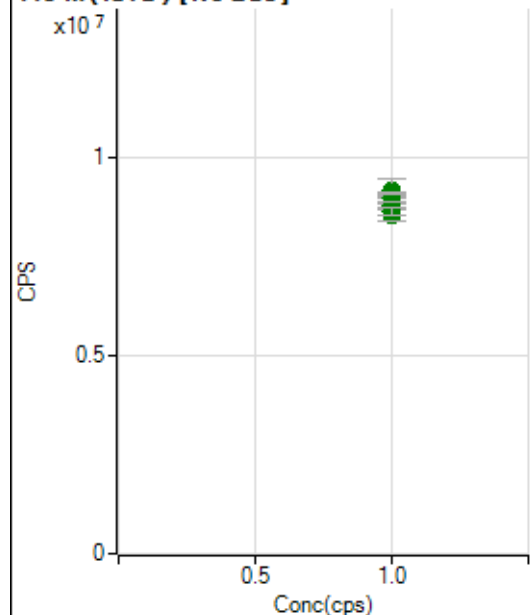
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1716809.45		A	2.6
2	☐	1.000		1813392.85		A	2.0
3	☐	1.000		1808934.63		A	1.7
4	☐	1.000		1826808.96		A	3.7
5	☐	1.000		1861038.11		A	0.5
6	☐	1.000		1913014.10		A	0.9
7	☐	1.000		1912868.84		A	1.2
8	☐	1.000		1799372.21		A	0.2

103 Rh (ISTD) [No Gas]

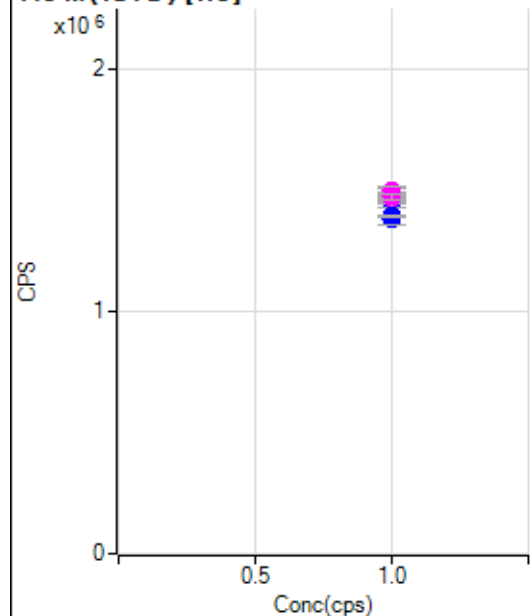
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8482594.55		A	4.2
2	☐	1.000		8651720.94		A	3.3
3	☐	1.000		9230717.74		A	4.1
4	☐	1.000		8902934.40		A	1.3
5	☐	1.000		8913255.15		A	1.5
6	☐	1.000		8906431.71		A	1.9
7	☐	1.000		9146223.12		A	2.0
8	☐	1.000		8109015.02		A	2.4

103 Rh (ISTD) [He]

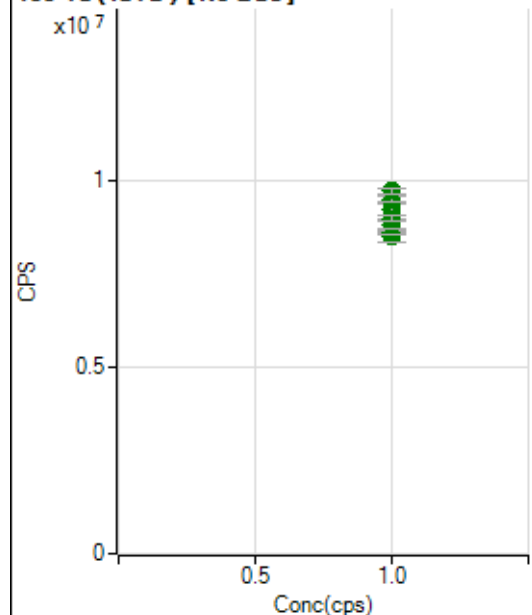
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4324260.49		A	3.6
2	☐	1.000		4535087.68		A	1.2
3	☐	1.000		4596452.46		A	1.0
4	☐	1.000		4539801.77		A	3.9
5	☐	1.000		4626971.53		A	1.2
6	☐	1.000		4632414.90		A	2.2
7	☐	1.000		4689479.86		A	1.9
8	☐	1.000		4130364.45		A	0.4

115 In (ISTD) [No Gas]

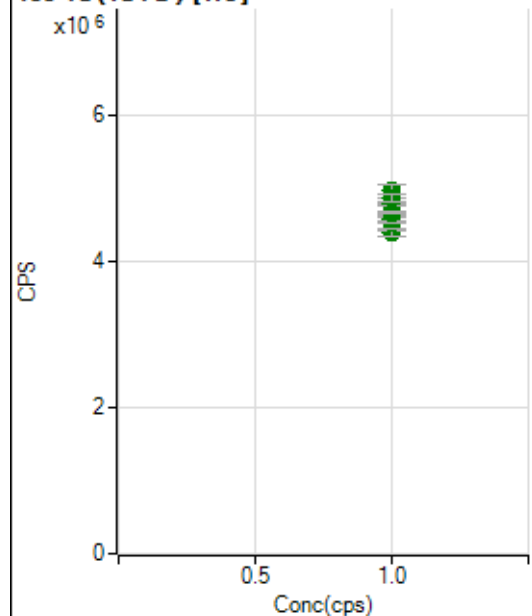
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8549818.91		A	3.4
2	☐	1.000		8770708.66		A	1.0
3	☐	1.000		9144440.70		A	6.4
4	☐	1.000		8742046.96		A	4.6
5	☐	1.000		8998311.91		A	0.5
6	☐	1.000		8969946.30		A	2.7
7	☐	1.000		9110504.01		A	0.5
8	☐	1.000		8627244.18		A	1.9

115 In (ISTD) [He]

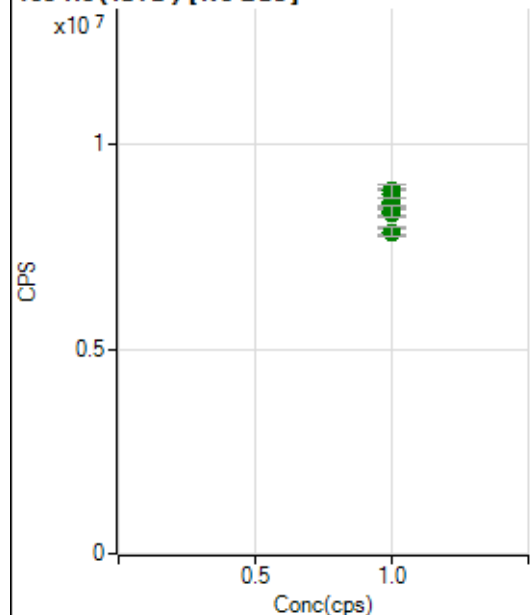
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1379409.40		P	2.8
2	☐	1.000		1460688.44		M	2.1
3	☐	1.000		1452350.33		P	0.7
4	☐	1.000		1470049.38		M	5.3
5	☐	1.000		1484283.42		M	1.5
6	☐	1.000		1499841.89		M	2.1
7	☐	1.000		1476300.95		M	1.8
8	☐	1.000		1398158.79		P	0.6

159 Tb (ISTD) [No Gas]

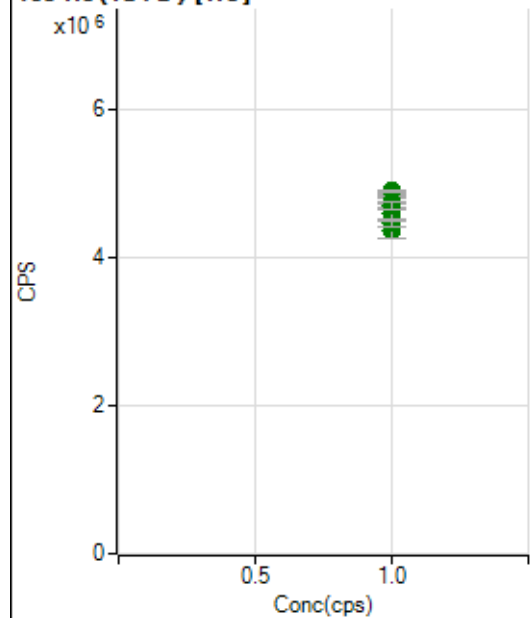
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8496317.86		A	2.6
2	☐	1.000		8645185.50		A	1.2
3	☐	1.000		9224185.28		A	5.1
4	☐	1.000		8850741.12		A	3.0
5	☐	1.000		9258540.21		A	3.4
6	☐	1.000		9521853.82		A	2.0
7	☐	1.000		9742133.12		A	1.4
8	☐	1.000		8994459.03		A	1.9

159 Tb (ISTD) [He]

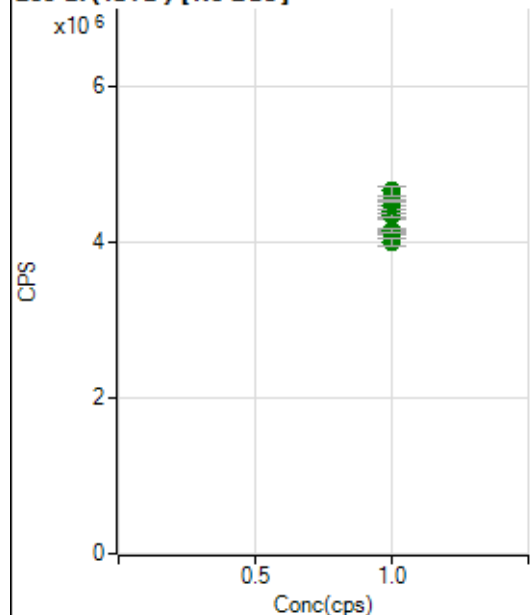
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4389813.48		A	1.8
2	☐	1.000		4532334.73		A	3.5
3	☐	1.000		4569142.09		A	2.2
4	☐	1.000		4668688.02		A	4.7
5	☐	1.000		4786446.04		A	1.3
6	☐	1.000		4964868.22		A	3.5
7	☐	1.000		4878011.21		A	2.0
8	☐	1.000		4669563.96		A	0.6

165 Ho (ISTD) [No Gas]

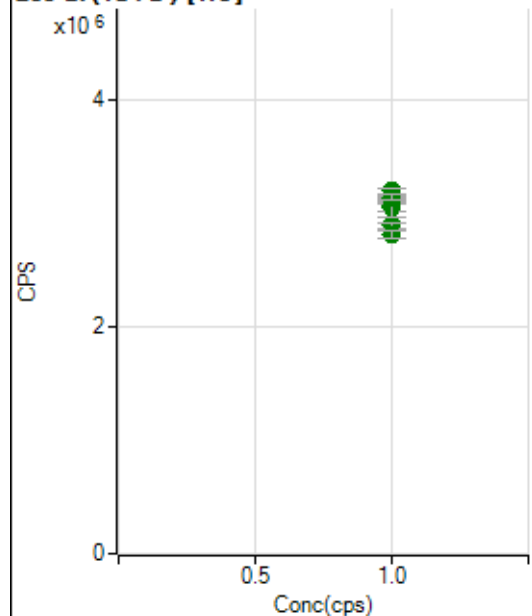
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7870049.22		A	2.2
2	☐	1.000		7863091.32		A	3.0
3	☐	1.000		8603051.67		A	8.0
4	☐	1.000		8334339.07		A	2.8
5	☐	1.000		8557120.67		A	2.8
6	☐	1.000		8803663.48		A	2.0
7	☐	1.000		8872680.84		A	3.4
8	☐	1.000		8370496.63		A	3.2

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4369686.88		A	5.4
2	☐	1.000		4456540.32		A	2.3
3	☐	1.000		4586648.13		A	3.7
4	☐	1.000		4644556.70		A	5.1
5	☐	1.000		4764659.13		A	1.5
6	☐	1.000		4842744.76		A	0.3
7	☐	1.000		4900394.61		A	0.3
8	☐	1.000		4692133.37		A	2.3

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4127587.23		A	1.7
2	☐	1.000		4152382.79		A	1.5
3	☐	1.000		4388651.11		A	4.4
4	☐	1.000		4350584.73		A	1.3
5	☐	1.000		4474041.50		A	1.9
6	☐	1.000		4529919.52		A	0.7
7	☐	1.000		4663318.02		A	2.4
8	☐	1.000		4011322.82		A	2.5

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2891694.61		A	1.9
2	☐	1.000		3057866.97		A	2.4
3	☐	1.000		3112966.87		A	1.6
4	☐	1.000		3064831.73		A	6.2
5	☐	1.000		3148808.70		A	0.2
6	☐	1.000		3198816.55		A	1.9
7	☐	1.000		3144104.26		A	1.4
8	☐	1.000		2818320.20		A	2.2

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8111221MS.b
Acq. Date-Time 2021-11-12 09:49:14
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		9979	99788.50			1.307	5.000
24		102890	1028902.73			3.039	5.000
25		13827	138267.69			1.572	5.000
26		15699	156985.29			1.774	5.000
59		22557	225574.73			1.152	5.000
113		8244	82443.14			1.511	5.000
115		27996	279957.10			4.121	5.000
206		7391	73913.30			1.857	5.000
207		6179	61787.44			1.240	5.000
208		15233	152328.01			1.418	5.000
220		1	6.70			53.969	

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

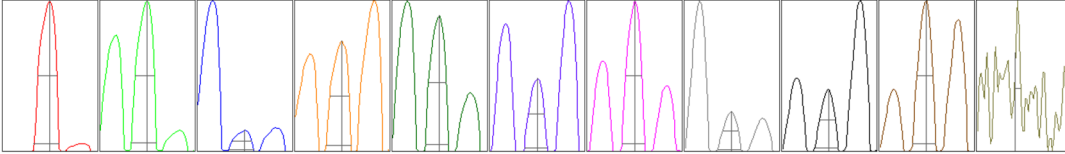
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	10038	9769	10098	9942	10048
24	102924	100449	108179	100732	102167
25	14009	13480	13863	13777	14005
26	15834	15262	15761	15632	16004
59	22491	22142	22678	22657	22819
113	8373	8041	8304	8240	8263
115	29845	27892	28107	27346	26788
206	7357	7176	7411	7484	7529
207	6150	6080	6164	6214	6286
208	15172	14889	15292	15429	15383

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	0	0

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	17707.98	9.00	8.90 - 9.10	
24	177955.77	24.00	23.90 - 24.10	
25	24140.91	25.00	24.90 - 25.10	
26	27190.37	26.00	25.90 - 26.10	
59	42509.94	59.00	58.90 - 59.10	
113	16780.98	113.05	112.90 - 113.10	
115	57499.82	115.05	114.90 - 115.10	
206	15105.41	206.00	205.90 - 206.10	
207	12705.49	207.00	206.90 - 207.10	
208	30909.56	208.00	207.90 - 208.10	
220	1.00	219.75	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.60	0.778	0.900	
24	0.61	0.787	0.900	
25	0.61	0.785	0.900	
26	0.61	0.788	0.900	
59	0.56	0.736	0.900	
113	0.50	0.725	0.900	
115	0.51	0.727	0.900	
206	0.50	0.735	0.900	
207	0.50	0.742	0.900	
208	0.50	0.736	0.900	
220	0.19			

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	8.6 V	Deflect	13.8 V
Extract 2	-170.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-75 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	160 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	1.1 mm	Torch V	-1.1 mm
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EM

Discriminator	4.2 mV	Analog HV	2262 V	Pulse HV	1579 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		5276	52757.44			1.827	
89		16833	168326.75			1.863	
205		20229	202286.54			2.137	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	5298	5240	5322	5131	5387
89	16861	16697	17023	16382	17200
205	19898	19940	20407	19988	20910

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	8.6 V	Deflect	4.6 V
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Extract 2	-170.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-75 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	1.1 mm	Torch V	-1.1 mm		
EM					
Discriminator	4.2 mV	Analog HV	2262 V	Pulse HV	1579 V