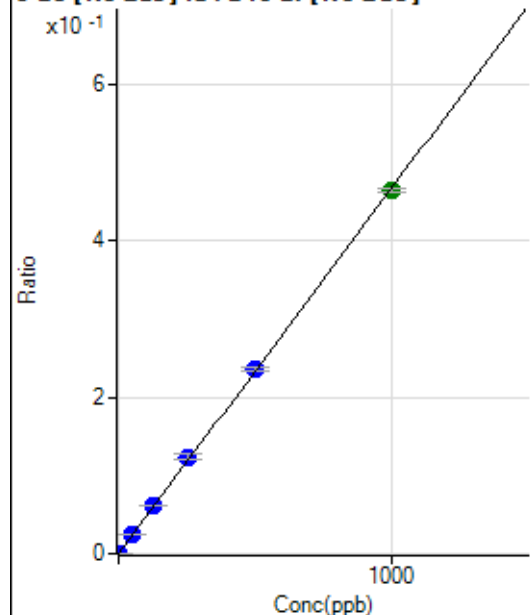


Calibration for 004CALB.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P8030524 MS1.b\
 Analysis File: P8030524 MS1.batch.bin
 DA Date-Time: 2024-03-06 20:09:41
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2024-03-06 09:06:58
2	005CALS.d	S02	2024-03-06 09:10:24
3	006CALS.d	S03	2024-03-06 09:13:50
4	007CALS.d	S04	2024-03-06 09:17:07
5	008CALS.d	S05	2024-03-06 09:20:17
6	009CALS.d	S06	2024-03-06 09:23:20
7	010CALS.d	S07	2024-03-06 09:26:24
8	011CALS.d	S08	2024-03-06 09:29:25

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	47.08	0.0000	P	16.6
2	☐	1.000	1.008	1571.56	0.0005	P	3.7
3	☐	50.000	51.978	76162.39	0.0243	P	0.7
4	☐	125.000	130.296	174777.53	0.0609	P	0.6
5	☐	250.000	265.724	327481.10	0.1242	P	5.6
6	☐	500.000	504.470	628660.00	0.2359	P	1.4
7	☐	1000.000	993.073	1206271.68	0.4643	A	1.0
8	☐			246.64	0.0001	P	24.9

$$y = 4.6752\text{E-}004 * x + 1.4686\text{E-}005$$

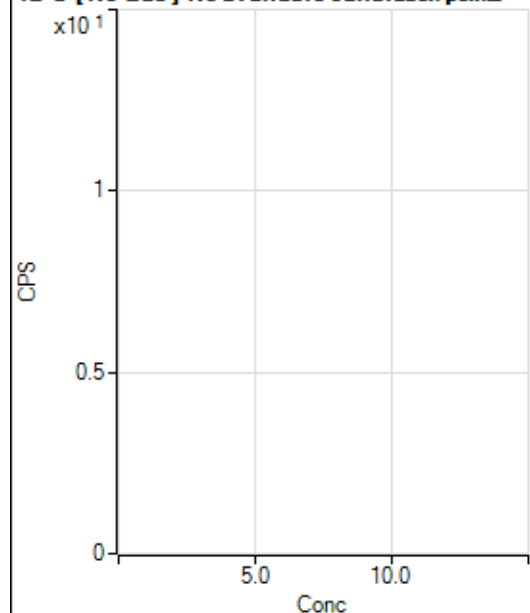
$$R = 0.9998$$

$$DL = 0.01567$$

$$BEC = 0.03141$$

Weight: <None>

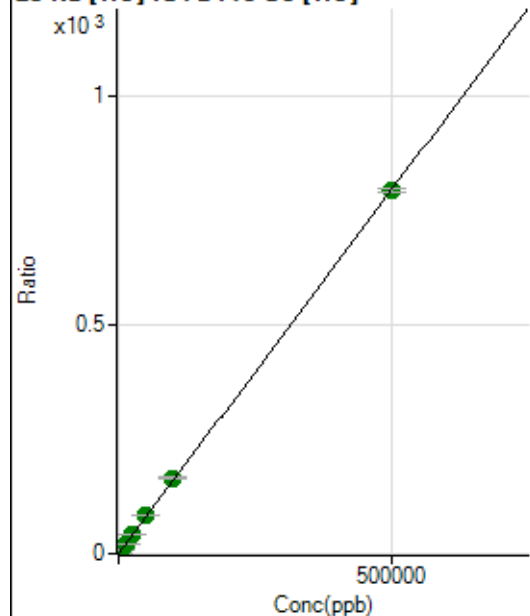
Min Conc: 0

12 C [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			1817518.65		A	1.9
2	☐			1783286.10		A	0.9
3	☐			1730555.20		A	1.6
4	☐			1592531.99		A	0.7
5	☐			1559854.99		A	1.5
6	☐			1617673.67		A	2.3
7	☐			1813386.21		A	4.3
8	☐			1678493.29		A	4.8

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			21433.48		P	0.9
2	☐			20611.18		P	1.3
3	☐			20192.83		P	1.4
4	☐			18897.79		P	1.2
5	☐			19184.81		P	1.2
6	☐			20103.85		P	1.3
7	☐			24346.87		P	1.4
8	☐			25983.02		P	2.1

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	6873.89	0.0519	P	7.0
2	☐	500.000	458.254	106370.70	0.7794	P	1.0
3	☐	5000.000	5274.050	1059064.49	8.4245	A	4.0
4	☐	12500.000	13071.749	2473424.13	20.8035	A	1.4
5	☐	25000.000	25815.890	4643152.19	41.0349	A	1.2
6	☐	50000.000	52172.634	9110126.74	82.8766	A	1.2
7	☐	100000.00	104264.68	18122653.07	165.5732	A	3.3
8	☐	500000.00	498872.01	95439481.91	792.0166	A	1.1

$$y = 0.0016 * x + 0.0519$$

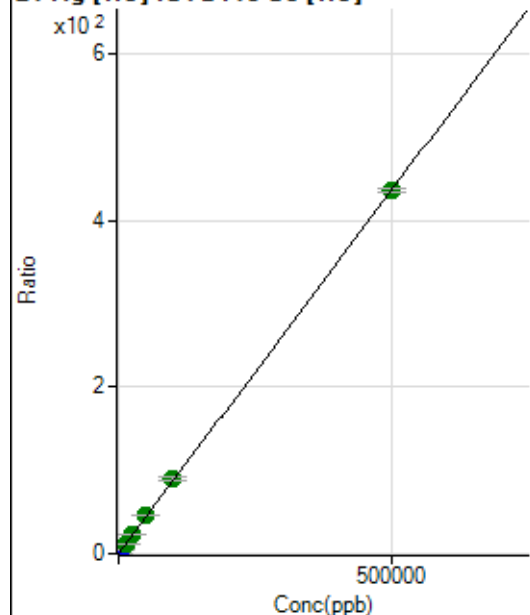
$$R = 1.0000$$

$$DL = 6.882$$

$$BEC = 32.72$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	111.11	0.0008	P	19.3
2	☐	500.000	466.471	55719.35	0.4082	P	0.1
3	☐	5000.000	5235.712	574918.06	4.5736	P	4.1
4	☐	12500.000	13152.555	1366007.83	11.4880	A	0.8
5	☐	25000.000	25885.475	2557874.02	22.6086	A	2.5
6	☐	50000.000	51860.903	4979072.64	45.2949	A	0.9
7	☐	100000.00	102996.78	9846631.45	89.9558	A	3.4
8	☐	500000.00	499151.64	52534719.77	435.9483	A	1.2

$$y = 8.7338\text{E-}004 * x + 8.3463\text{E-}004$$

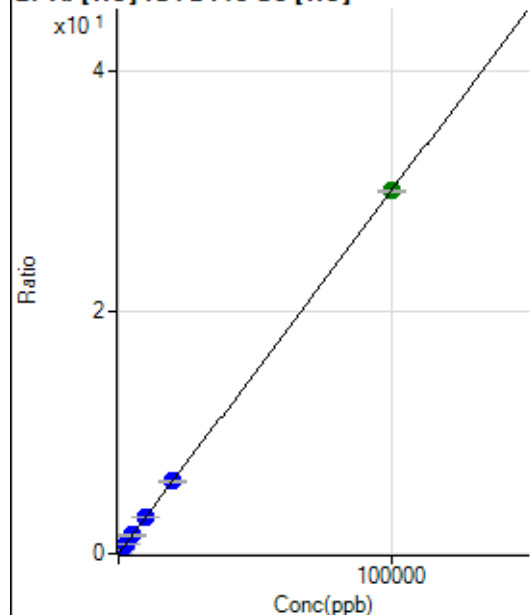
$$R = 1.0000$$

$$DL = 0.5531$$

$$BEC = 0.9556$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	51.11	0.0004	P	37.6
2	☐	20.000	17.688	778.92	0.0057	P	9.1
3	☐	1000.000	1025.293	38785.02	0.3086	P	5.1
4	☐	2500.000	2535.064	90638.81	0.7624	P	1.3
5	☐	5000.000	5035.881	171309.12	1.5140	P	1.5
6	☐	10000.000	10164.809	335889.12	3.0556	P	1.0
7	☐	20000.000	20032.730	659226.03	6.0216	P	2.2
8	☐	100000.00	99974.050	3620927.17	30.0496	A	0.2

$$y = 3.0057\text{E-}004 * x + 3.8557\text{E-}004$$

$$R = 1.0000$$

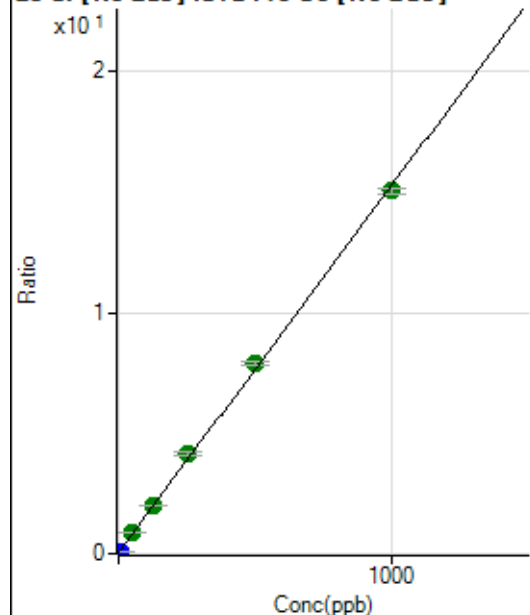
$$DL = 1.445$$

$$BEC = 1.283$$

Weight: <None>

Min Conc: 0

28 Si [No Gas] ISTD :45 Sc [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	182122.85	0.0420	P	0.3
2	☐	10.000	0.252	197916.78	0.0459	P	1.8
3	☐	50.000	54.125	3640285.29	0.8657	A	0.7
4	☐	125.000	129.780	7998821.75	2.0169	A	0.7
5	☐	250.000	270.362	14907169.78	4.1562	A	4.9
6	☐	500.000	517.074	28517786.52	7.9105	A	1.5
7	☐	1000.000	985.666	54709096.96	15.0412	A	1.7
8	☐			856910.93	0.2422	P	6.8

$$y = 0.0152 * x + 0.0420$$

$$R = 0.9994$$

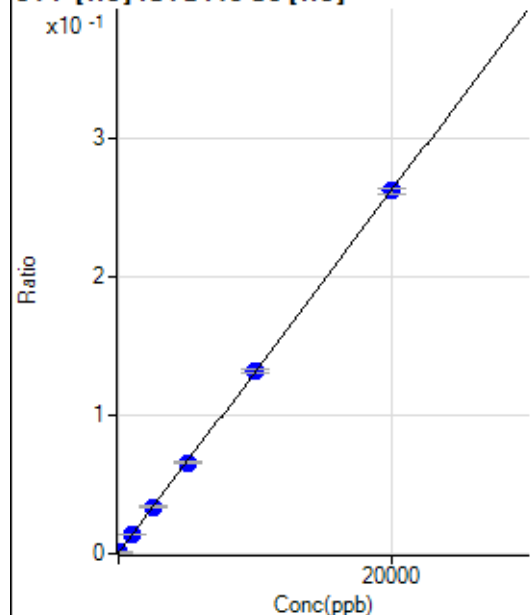
$$DL = 0.02877$$

$$BEC = 2.763$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	-13.767	53.33	0.0004	P	26.9
2	☐	0.000	13.767	104.45	0.0008	P	27.7
3	☐	1000.000	1009.706	1734.57	0.0138	P	3.1
4	☐	2500.000	2536.947	4013.93	0.0338	P	6.3
5	☐	5000.000	4962.004	7411.96	0.0655	P	1.7
6	☐	10000.000	10051.101	14519.59	0.1321	P	2.2
7	☐	20000.000	19978.845	28683.95	0.2620	P	1.7
8	☐			71.11	0.0006	P	30.2

$$y = 1.3083E-005 * x + 5.8531E-004$$

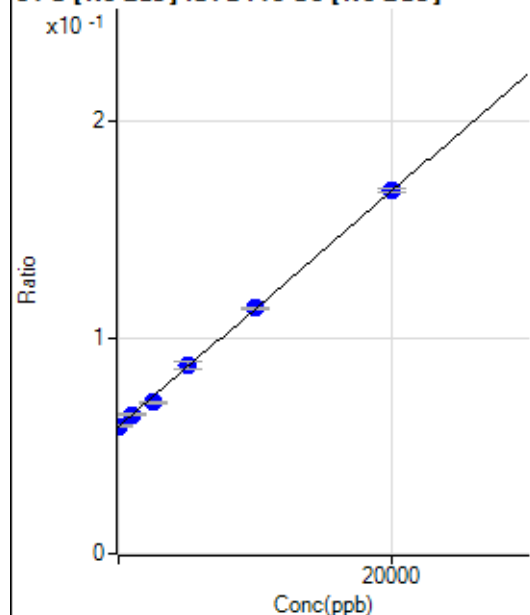
$$R = 1.0000$$

$$DL = 36.85$$

$$BEC = 44.74$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	-38.501	254335.02	0.0587	P	0.5
2	☐	0.000	38.501	255120.58	0.0591	P	1.3
3	☐	1000.000	1011.743	270925.11	0.0644	P	1.9
4	☐	2500.000	2017.253	277220.53	0.0699	P	1.2
5	☐	5000.000	5152.991	312002.31	0.0870	P	3.8
6	☐	10000.000	10013.601	408798.59	0.1134	P	1.2
7	☐	20000.000	20014.708	610345.78	0.1678	P	1.1
8	☐			215999.01	0.0611	P	3.2

$$y = 5.4393\text{E-}006 * x + 0.0589$$

$$R = 0.9996$$

$$DL = 294.2$$

$$BEC = 1.083\text{E}+04$$

Weight: <None>

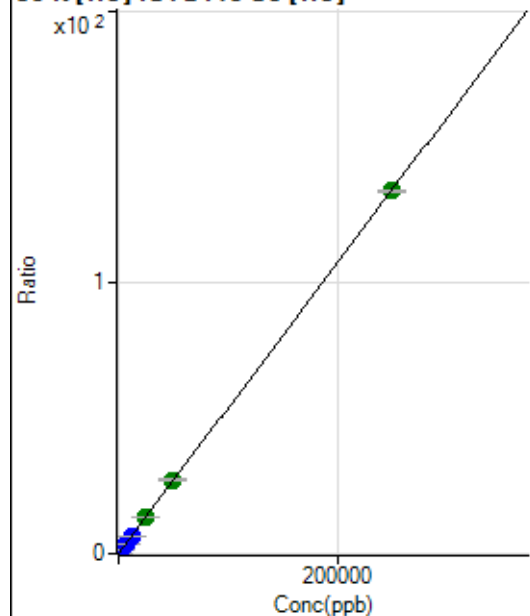
Min Conc: 0

35 Cl [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			116808.91		P	3.3
2	☐			115105.77		P	3.6
3	☐			111380.23		P	3.8
4	☐			102557.79		P	2.9
5	☐			99627.62		P	4.0
6	☐			101831.44		P	2.1
7	☐			110184.07		P	1.4
8	☐			91632.85		P	0.5

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			752.25		P	6.7
2	☐			737.80		P	6.9
3	☐			624.46		P	5.2
4	☐			628.91		P	9.4
5	☐			660.02		P	5.8
6	☐			635.58		P	7.6
7	☐			696.69		P	5.4
8	☐			631.13		P	9.6

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	6136.92	0.0463	P	5.7
2	☐	500.000	453.984	39518.48	0.2896	P	1.8
3	☐	2500.000	2522.939	175758.99	1.3981	P	3.7
4	☐	6250.000	6166.526	398321.73	3.3502	P	1.1
5	☐	12500.000	12295.194	750620.15	6.6338	P	1.2
6	☐	25000.000	25435.326	1503083.43	13.6739	A	2.0
7	☐	50000.000	50538.581	2969445.51	27.1236	A	2.1
8	☐	250000.00	249860.94	16136210.32	133.9153	A	0.4

$$y = 5.3577\text{E-}004 * x + 0.0463$$

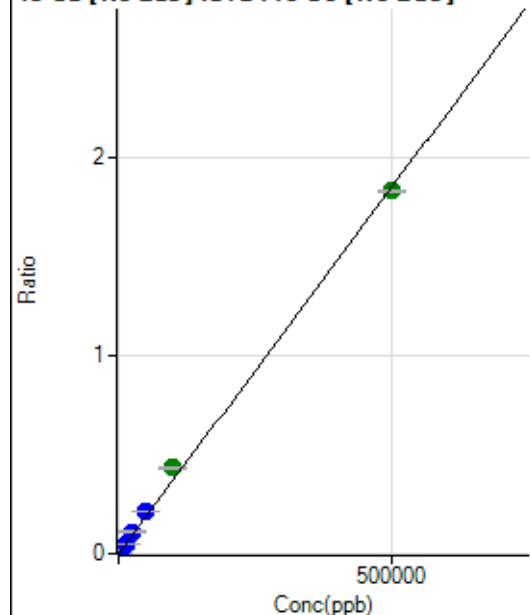
$$R = 1.0000$$

$$DL = 14.89$$

$$BEC = 86.5$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	167.78	0.0000	P	5.4
2	☐	500.000	478.286	7784.39	0.0018	P	1.3
3	☐	5000.000	5777.402	89838.28	0.0214	P	0.6
4	☐	12500.000	14327.578	209882.60	0.0529	P	1.0
5	☐	25000.000	29770.710	394219.92	0.1099	P	5.4
6	☐	50000.000	57369.123	763558.39	0.2118	P	1.3
7	☐	100000.00	117325.02	1575211.28	0.4331	A	2.5
8	☐	500000.00	495506.10	6463389.49	1.8290	A	0.8

$$y = 3.6912E-006 * x + 3.8731E-005$$

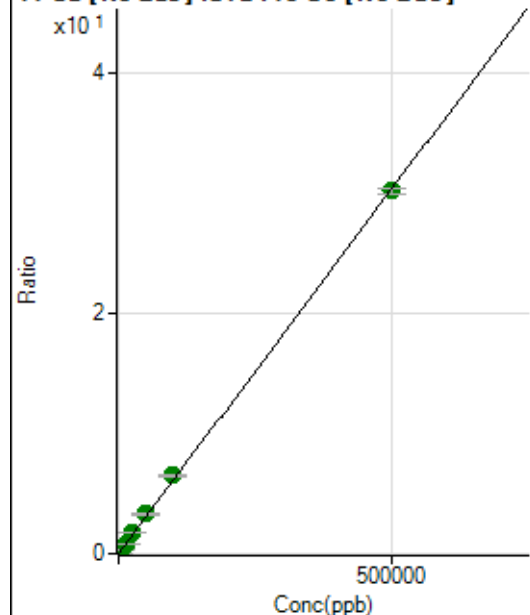
$$R = 0.9993$$

$$DL = 1.697$$

$$BEC = 10.49$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	26083.88	0.0060	P	0.8
2	☐	500.000	459.123	146098.71	0.0339	P	1.2
3	☐	5000.000	5543.797	1438940.34	0.3422	A	1.0
4	☐	12500.000	13618.678	3298849.29	0.8319	A	1.9
5	☐	25000.000	28568.186	6234627.34	1.7385	A	5.4
6	☐	50000.000	54352.080	11904189.96	3.3022	A	1.9
7	☐	100000.00	107694.34	23774991.31	6.5371	A	2.7
8	☐	500000.00	497814.14	106701430.6	30.1957	A	1.8

$$y = 6.0645E-005 * x + 0.0060$$

$$R = 0.9998$$

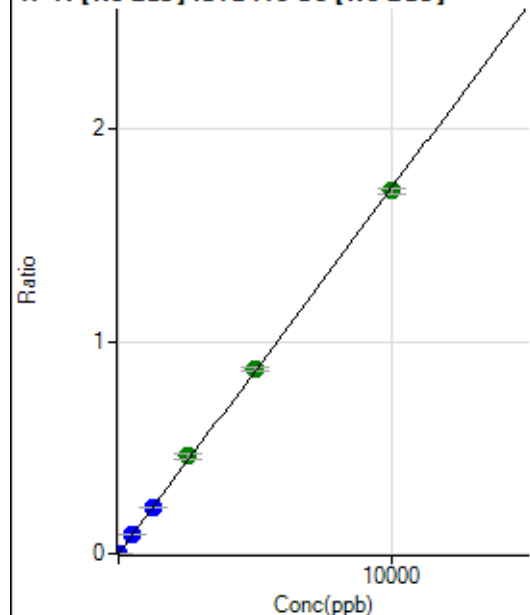
$$DL = 2.372$$

$$BEC = 99.29$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	67.78	0.0000	P	16.1
2	☐	5.000	4.691	3556.04	0.0008	P	3.4
3	☐	500.000	506.047	366925.65	0.0873	P	0.9
4	☐	1250.000	1250.701	855198.45	0.2156	P	0.9
5	☐	2500.000	2663.839	1647432.53	0.4593	A	4.7
6	☐	5000.000	5067.818	3149965.86	0.8738	A	1.8
7	☐	10000.000	9924.741	6223859.07	1.7111	A	1.7
8	☐			1383.42	0.0004	P	10.3

$$y = 1.7241\text{E-}004 * x + 1.5652\text{E-}005$$

$$R = 0.9998$$

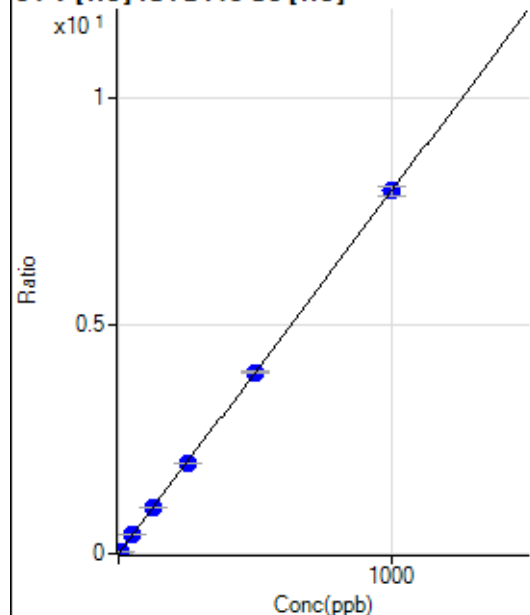
$$DL = 0.04396$$

$$BEC = 0.09079$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	11.11	0.0001	P	16.6
2	☐	5.000	4.733	5143.19	0.0377	P	2.8
3	☐	50.000	51.483	51427.47	0.4091	P	4.3
4	☐	125.000	125.479	118545.76	0.9971	P	0.9
5	☐	250.000	248.352	223283.53	1.9733	P	1.2
6	☐	500.000	500.206	436889.00	3.9744	P	0.9
7	☐	1000.000	1000.177	869951.08	7.9469	P	2.5
8	☐			313.34	0.0026	P	4.4

$$y = 0.0079 * x + 8.3782\text{E-}005$$

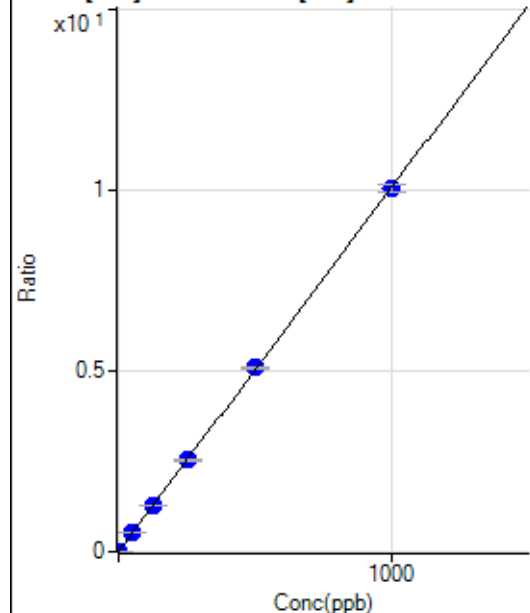
$$R = 1.0000$$

$$DL = 0.005251$$

$$BEC = 0.01054$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	671.13	0.0051	P	8.4
2	☐	2.000	1.893	3297.08	0.0242	P	0.3
3	☐	50.000	51.831	66337.43	0.5275	P	2.9
4	☐	125.000	126.995	152815.75	1.2852	P	0.6
5	☐	250.000	252.153	288160.28	2.5468	P	1.7
6	☐	500.000	505.124	560271.34	5.0968	P	0.6
7	☐	1000.000	996.559	1100284.56	10.0505	P	2.3
8	☐			26405.57	0.2191	P	0.1

$$y = 0.0101 * x + 0.0051$$

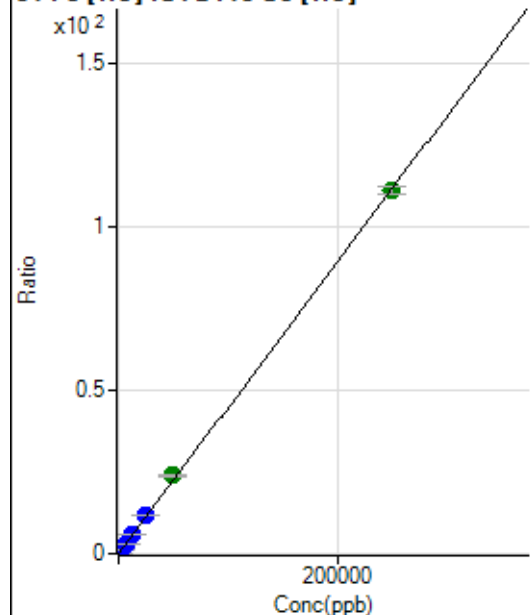
$$R = 1.0000$$

$$DL = 0.1266$$

$$BEC = 0.5033$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	274.45	0.0021	P	1.3
2	☐	50.000	49.026	3257.07	0.0239	P	3.3
3	☐	2500.000	2681.845	150164.24	1.1947	P	4.4
4	☐	6250.000	6645.174	351592.22	2.9571	P	0.6
5	☐	12500.000	13160.455	662407.49	5.8544	P	1.6
6	☐	25000.000	26504.273	1295832.25	11.7883	P	0.8
7	☐	50000.000	53515.501	2604944.79	23.8000	A	3.5
8	☐	250000.00	249101.75	13345663.00	110.7756	A	2.0

$$y = 4.4469E-004 * x + 0.0021$$

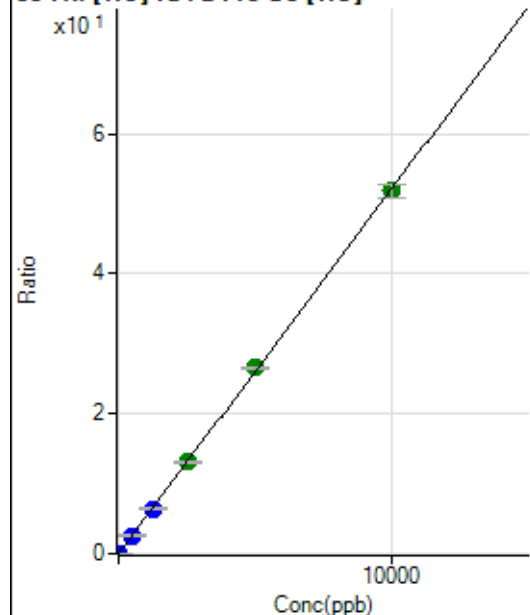
$$R = 0.9999$$

$$DL = 0.1809$$

$$BEC = 4.654$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	66.67	0.0005	P	18.4
2	☐	1.000	0.859	678.91	0.0050	P	7.7
3	☐	500.000	499.715	327196.68	2.6029	P	4.2
4	☐	1250.000	1237.213	766149.49	6.4437	P	0.4
5	☐	2500.000	2520.126	1485016.33	13.1249	A	1.8
6	☐	5000.000	5091.234	2914591.90	26.5148	A	1.4
7	☐	10000.000	9950.964	5672207.42	51.8234	A	3.4
8	☐			4797.52	0.0398	P	1.4

$$y = 0.0052 * x + 5.0483E-004$$

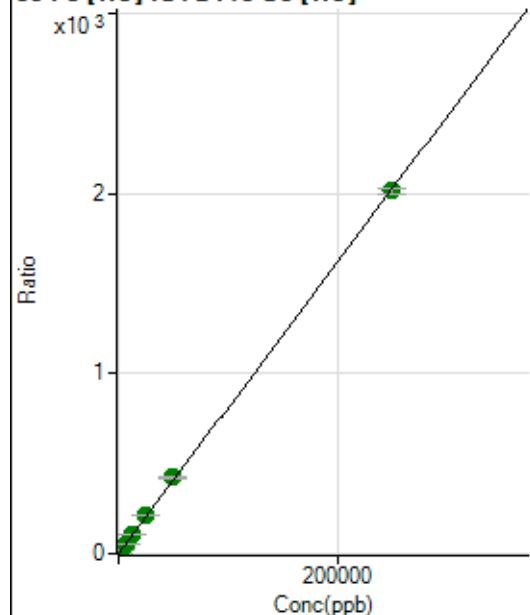
$$R = 0.9999$$

$$DL = 0.05353$$

$$BEC = 0.09694$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	2133.51	0.0161	P	4.5
2	☐	50.000	48.335	55488.49	0.4066	P	2.2
3	☐	2500.000	2718.737	2763992.70	21.9837	A	3.2
4	☐	6250.000	6607.353	6349584.07	53.4041	A	0.6
5	☐	12500.000	13094.026	11972908.01	105.8170	A	1.5
6	☐	25000.000	26366.434	23420323.26	213.0592	A	1.4
7	☐	50000.000	52359.408	46308318.75	423.0847	A	3.3
8	☐	250000.00	249350.65	242767596.3	2,014.791	A	1.9

$$y = 0.0081 * x + 0.0161$$

$$R = 0.9999$$

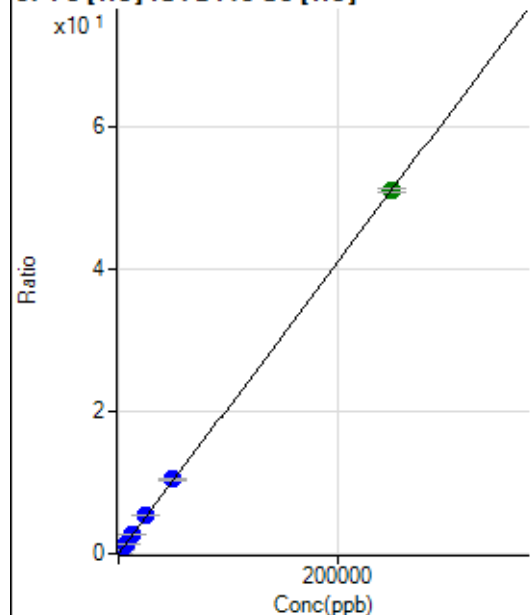
$$DL = 0.2708$$

$$BEC = 1.993$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	92.22	0.0007	P	14.4
2	☐	50.000	49.470	1472.31	0.0108	P	8.2
3	☐	2500.000	2663.418	68439.82	0.5445	P	4.3
4	☐	6250.000	6540.526	158854.39	1.3360	P	0.4
5	☐	12500.000	12979.307	299900.54	2.6506	P	1.9
6	☐	25000.000	25969.007	582901.78	5.3027	P	0.5
7	☐	50000.000	51198.921	1144564.34	10.4538	P	1.6
8	☐	250000.00	249630.45	6141152.55	50.9666	A	1.2

$$y = 2.0417\text{E-}004 * x + 6.9300\text{E-}004$$

$$R = 1.0000$$

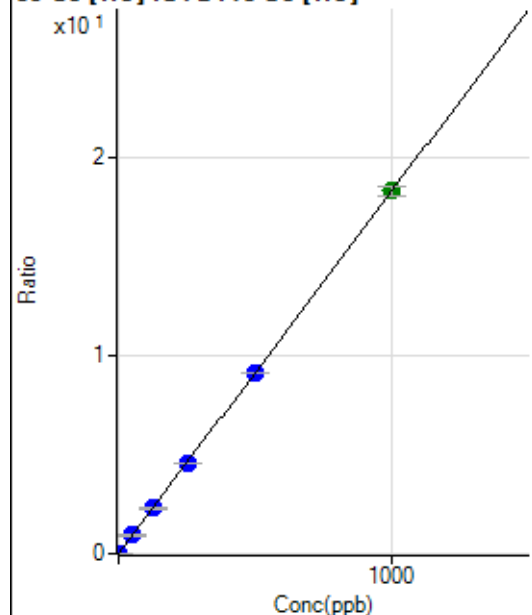
$$DL = 1.466$$

$$BEC = 3.394$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	54.44	0.0004	P	22.4
2	☐	1.000	0.992	2528.03	0.0185	P	3.9
3	☐	50.000	51.081	117263.50	0.9327	P	3.6
4	☐	125.000	125.149	271609.86	2.2846	P	1.6
5	☐	250.000	248.581	513416.77	4.5375	P	1.3
6	☐	500.000	497.486	998194.68	9.0805	P	0.2
7	☐	1000.000	1001.539	2001080.45	18.2805	A	2.9
8	☐			5299.93	0.0440	P	0.5

$$y = 0.0183 * x + 4.1299\text{E-}004$$

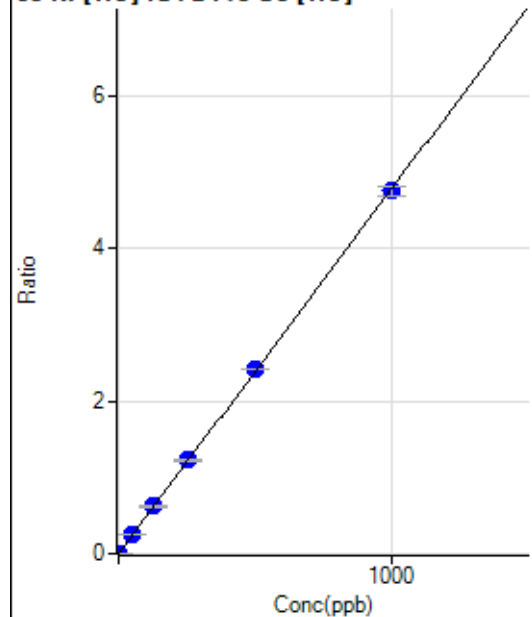
$$R = 1.0000$$

$$DL = 0.01523$$

$$BEC = 0.02263$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	51.11	0.0004	P	31.8
2	☐	1.000	0.976	687.80	0.0050	P	9.6
3	☐	50.000	53.170	31949.19	0.2541	P	3.3
4	☐	125.000	130.273	73956.28	0.6221	P	2.1
5	☐	250.000	256.191	138383.79	1.2230	P	0.8
6	☐	500.000	505.361	265146.26	2.4120	P	0.3
7	☐	1000.000	994.954	519768.61	4.7484	P	3.0
8	☐			8109.04	0.0673	P	1.2

$$y = 0.0048 * x + 3.8532E-004$$

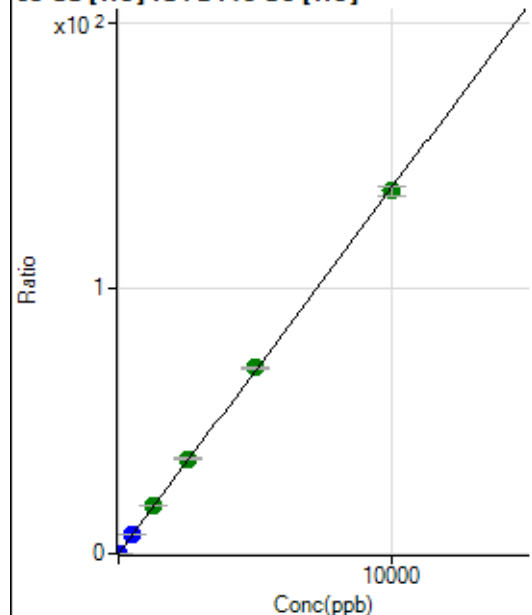
$$R = 1.0000$$

$$DL = 0.07713$$

$$BEC = 0.08074$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	781.14	0.0059	P	14.7
2	☐	2.000	1.842	4262.91	0.0312	P	3.4
3	☐	500.000	521.446	902312.96	7.1779	P	4.2
4	☐	1250.000	1314.026	2149664.48	18.0791	A	0.1
5	☐	2500.000	2585.949	4025068.55	35.5731	A	1.4
6	☐	5000.000	5091.981	7699278.01	70.0412	A	1.0
7	☐	10000.000	9923.447	14942418.39	136.4934	A	2.3
8	☐			4823.09	0.0400	P	2.4

$$y = 0.0138 * x + 0.0059$$

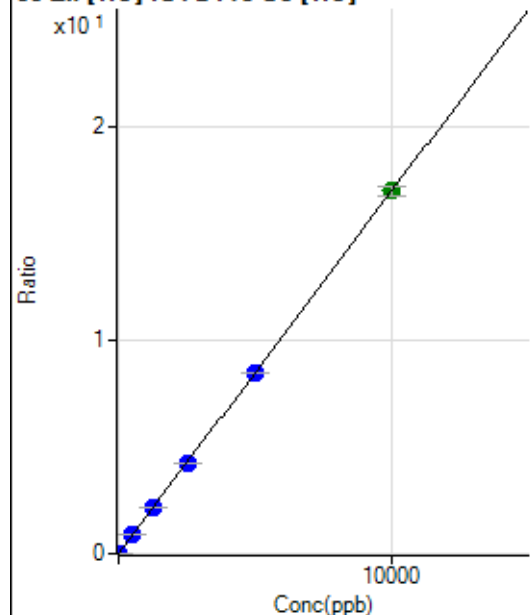
$$R = 0.9999$$

$$DL = 0.1896$$

$$BEC = 0.4289$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	367.79	0.0028	P	6.9
2	☐	2.000	4.219	1356.74	0.0099	P	4.3
3	☐	500.000	514.546	110330.67	0.8778	P	4.5
4	☐	1250.000	1266.884	256488.41	2.1572	P	0.8
5	☐	2500.000	2485.015	478487.39	4.2288	P	1.3
6	☐	5000.000	4982.087	931655.97	8.4753	P	0.7
7	☐	10000.000	10009.865	1863712.42	17.0256	A	2.8
8	☐			2650.28	0.0220	P	5.0

$$y = 0.0017 * x + 0.0028$$

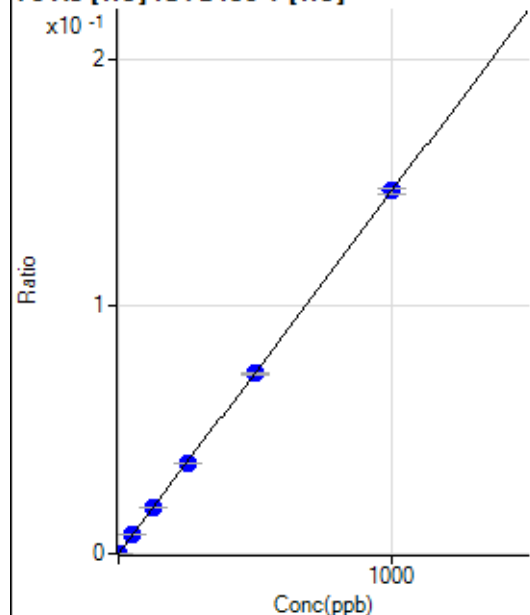
$$R = 1.0000$$

$$DL = 0.3364$$

$$BEC = 1.629$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	3.33	0.0000	P	102.6
2	☐	1.000	1.010	122.23	0.0002	P	14.5
3	☐	50.000	51.007	5560.05	0.0075	P	1.6
4	☐	125.000	125.602	13013.89	0.0184	P	0.6
5	☐	250.000	247.946	24506.95	0.0364	P	0.6
6	☐	500.000	497.919	47844.27	0.0730	P	0.7
7	☐	1000.000	1001.429	94549.82	0.1468	P	1.8
8	☐			62.22	0.0001	P	7.2

$$y = 1.4659E-004 * x + 4.2837E-006$$

$$R = 1.0000$$

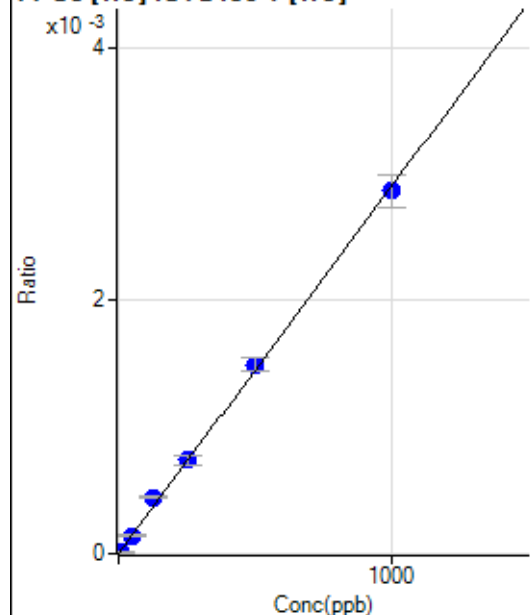
$$DL = 0.08999$$

$$BEC = 0.02922$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	3.376	7.78	0.0000	P	108.7
3	☐	50.000	47.931	103.33	0.0001	P	10.5
4	☐	125.000	152.209	312.23	0.0004	P	3.1
5	☐	250.000	254.986	498.90	0.0007	P	9.3
6	☐	500.000	514.619	978.93	0.0015	P	7.4
7	☐	1000.000	988.155	1845.70	0.0029	P	9.1
8	☐			16.67	0.0000	P	19.3

$$y = 2.9031\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9994$$

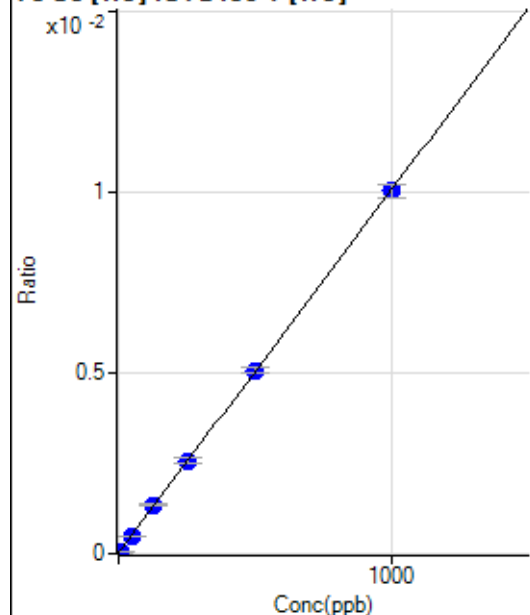
$$DL = 0$$

$$BEC = 0$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	18.89	0.0000	P	35.6
2	☐	5.000	3.434	46.67	0.0001	P	6.1
3	☐	50.000	46.930	367.78	0.0005	P	1.6
4	☐	125.000	130.874	944.48	0.0013	P	3.5
5	☐	250.000	254.211	1734.57	0.0026	P	7.3
6	☐	500.000	502.463	3319.31	0.0051	P	3.7
7	☐	1000.000	997.143	6458.20	0.0100	P	3.5
8	☐			51.11	0.0001	P	27.9

$$y = 1.0031\text{E-}005 * x + 2.3774\text{E-}005$$

$$R = 1.0000$$

$$DL = 2.531$$

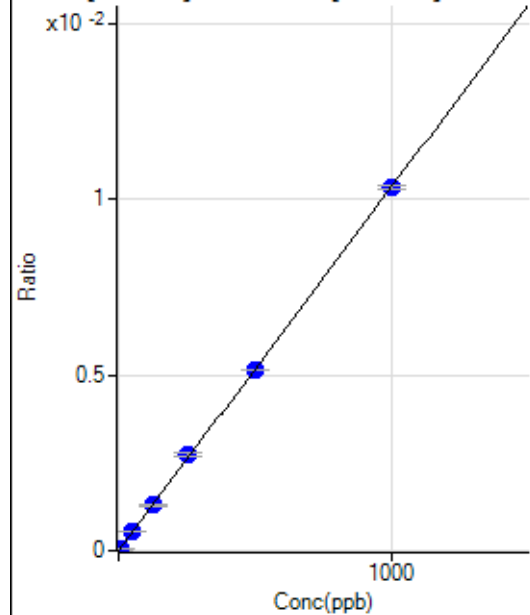
$$BEC = 2.37$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			2267.99		P	4.9
2	☐			2272.43		P	4.6
3	☐			2197.97		P	7.4
4	☐			1981.28		P	5.5
5	☐			1876.81		P	8.8
6	☐			1814.58		P	3.8
7	☐			1844.58		P	4.6
8	☐			3466.03		P	10.4

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	0.00	0.0000	P	134325.
2	☐	5.000	5.402	450.01	0.0001	P	10.8
3	☐	50.000	53.466	4336.31	0.0006	P	1.3
4	☐	125.000	125.769	9712.44	0.0013	P	3.2
5	☐	250.000	264.285	18659.37	0.0027	P	3.3
6	☐	500.000	497.191	35845.03	0.0051	P	0.9
7	☐	1000.000	997.562	70335.99	0.0103	P	0.9
8	☐			410.02	0.0001	P	19.4

$$y = 1.0336E-005 * x + 2.6924E-009$$

$$R = 0.9999$$

$$DL = 1.05$$

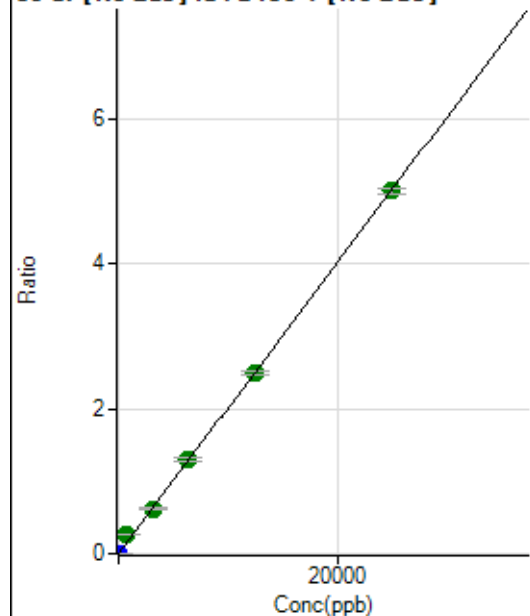
$$BEC = 0.0002605$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			148.89		P	15.2
2	☐			131.12		P	17.3
3	☐			140.00		P	2.4
4	☐			151.11		P	14.2
5	☐			138.89		P	3.7
6	☐			145.56		P	8.7
7	☐			131.11		P	19.7
8	☐			158.89		P	33.7

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	322.23	0.0000	P	4.9
2	☐	1.000	0.920	1814.58	0.0002	P	8.1
3	☐	625.000	1281.240	2019032.33	0.2574	A	0.4
4	☐	3125.000	3105.051	4659680.04	0.6237	A	0.7
5	☐	6250.000	6490.699	8901886.67	1.3037	A	4.3
6	☐	12500.000	12436.968	17422155.85	2.4979	A	1.4
7	☐	25000.000	24957.429	34189740.88	5.0126	A	1.2
8	☐			5064.34	0.0008	P	21.2

$$y = 2.0084\text{E-}004 * x + 4.0332\text{E-}005$$

$$R = 0.9996$$

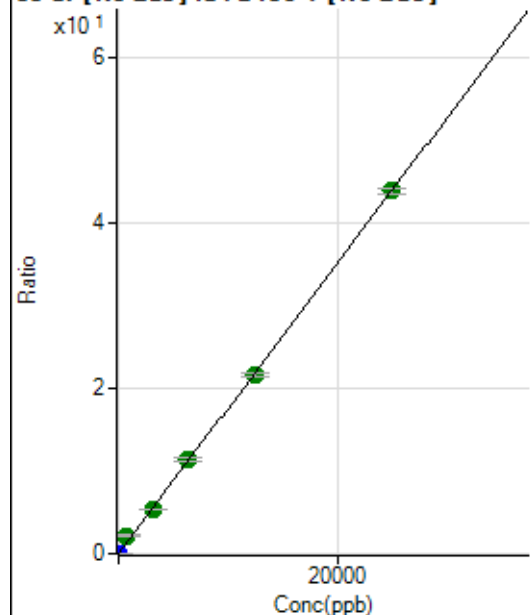
$$DL = 0.02975$$

$$BEC = 0.2008$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	438.90	0.0001	P	9.4
2	☐	1.000	0.925	13538.89	0.0017	P	1.0
3	☐	625.000	1252.105	17249560.30	2.1993	A	2.9
4	☐	3125.000	3076.267	40370481.06	5.4034	A	0.3
5	☐	6250.000	6454.479	77420568.85	11.3371	A	3.8
6	☐	12500.000	12344.032	151224078.8	21.6818	A	1.7
7	☐	25000.000	25017.278	299704408.8	43.9419	A	1.6
8	☐			41319.26	0.0061	P	21.5

$$y = 0.0018 * x + 5.4963E-005$$

$$R = 0.9996$$

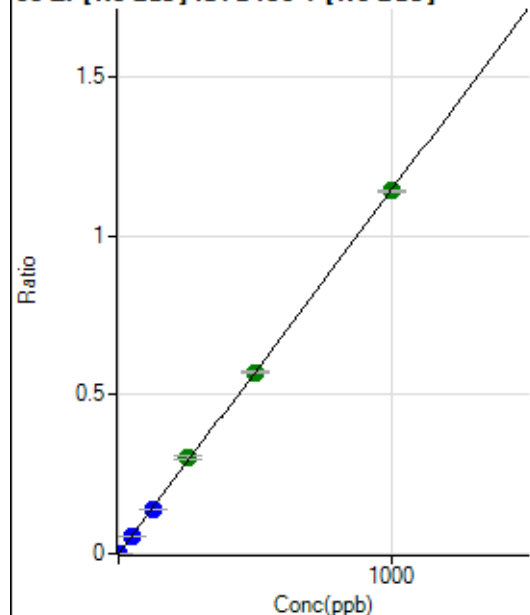
$$DL = 0.008843$$

$$BEC = 0.03129$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	425.57	0.0001	P	4.6
2	☐	1.000	0.883	8571.60	0.0011	P	1.3
3	☐	50.000	49.690	446415.14	0.0569	P	2.0
4	☐	125.000	123.565	1056915.32	0.1415	P	0.3
5	☐	250.000	263.119	2056772.94	0.3012	A	3.7
6	☐	500.000	498.054	3975821.54	0.5700	A	0.9
7	☐	1000.000	997.888	7789775.58	1.1420	A	0.9
8	☐			3503.81	0.0005	P	6.9

$$y = 0.0011 * x + 5.3278E-005$$

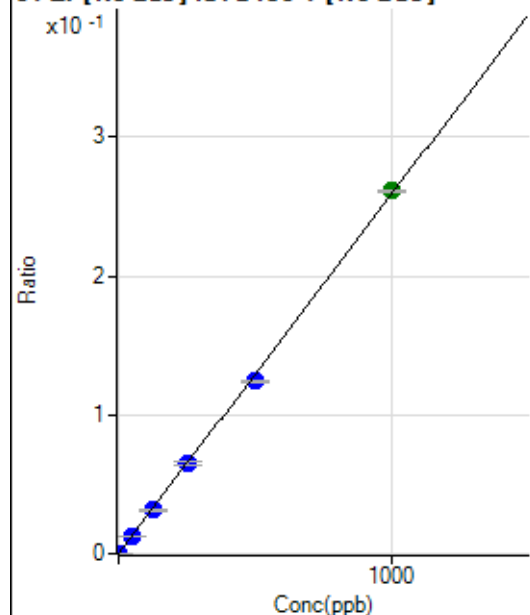
$$R = 0.9999$$

$$DL = 0.006391$$

$$BEC = 0.04656$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	82.22	0.0000	P	10.7
2	☐	1.000	0.841	1836.81	0.0002	P	3.4
3	☐	50.000	49.106	99730.04	0.0127	P	1.6
4	☐	125.000	120.448	232901.46	0.0312	P	1.3
5	☐	250.000	252.316	445929.41	0.0653	P	3.2
6	☐	500.000	481.027	868091.06	0.1245	P	1.2
7	☐	1000.000	1009.521	1781694.40	0.2612	A	0.8
8	☐			782.25	0.0001	P	11.4

$$y = 2.5872\text{E-}004 * x + 1.0297\text{E-}005$$

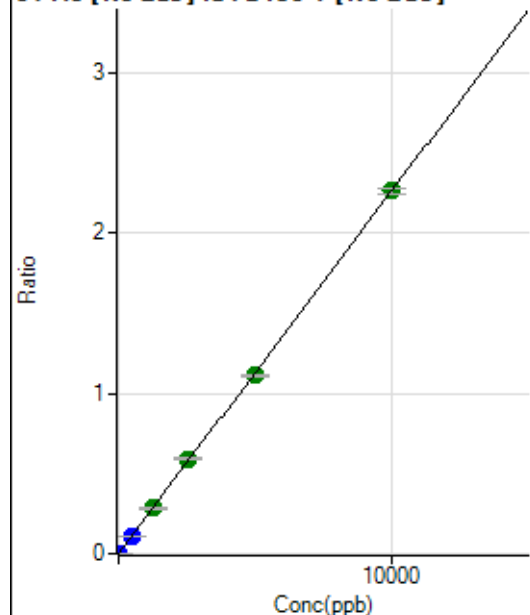
$$R = 0.9997$$

$$DL = 0.01283$$

$$BEC = 0.0398$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	150.00	0.0000	P	23.8
2	☐	5.000	5.327	9870.25	0.0012	P	1.9
3	☐	500.000	495.028	878856.27	0.1120	P	1.6
4	☐	1250.000	1255.865	2123582.55	0.2842	A	1.7
5	☐	2500.000	2624.998	4057163.27	0.5941	A	3.6
6	☐	5000.000	4917.512	7762122.87	1.1129	A	0.8
7	☐	10000.000	10009.510	15450156.99	2.2652	A	1.6
8	☐			6730.59	0.0010	P	9.9

$$y = 2.2631\text{E-}004 * x + 1.8799\text{E-}005$$

$$R = 0.9999$$

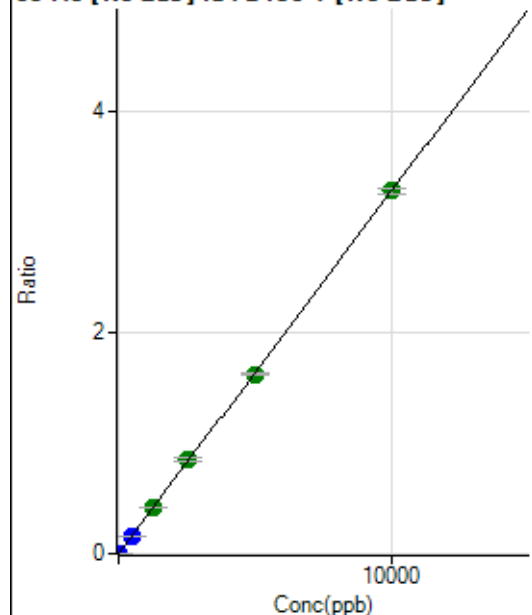
$$DL = 0.05928$$

$$BEC = 0.08307$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	34.44	0.0000	P	23.7
2	☐	5.000	4.532	12020.85	0.0015	P	1.0
3	☐	500.000	494.426	1272359.05	0.1622	P	1.4
4	☐	1250.000	1252.283	3069572.18	0.4108	A	0.8
5	☐	2500.000	2592.653	5808779.78	0.8506	A	3.7
6	☐	5000.000	4945.650	11316869.28	1.6225	A	0.9
7	☐	10000.000	10004.005	22385433.28	3.2820	A	1.8
8	☐			9435.51	0.0014	P	10.0

$$y = 3.2807\text{E-}004 * x + 4.3078\text{E-}006$$

$$R = 0.9999$$

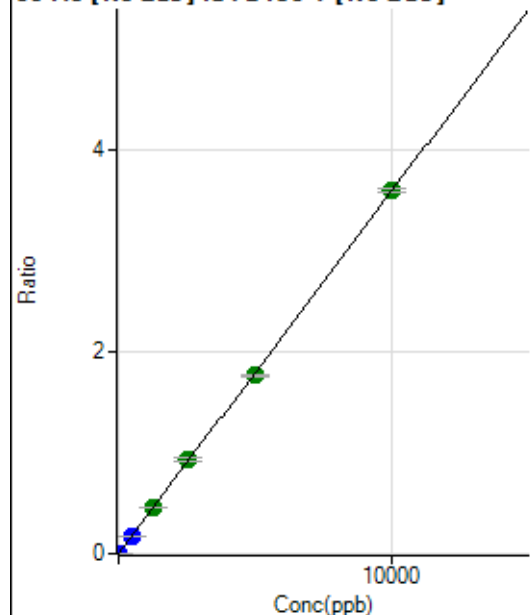
$$DL = 0.009337$$

$$BEC = 0.01313$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	90.00	0.0000	P	12.5
2	☐	5.000	4.597	13415.45	0.0017	P	1.6
3	☐	500.000	492.311	1388543.69	0.1770	P	2.0
4	☐	1250.000	1258.264	3380500.37	0.4525	A	0.5
5	☐	2500.000	2608.950	6406667.75	0.9381	A	3.7
6	☐	5000.000	4917.797	12333893.43	1.7684	A	1.4
7	☐	10000.000	10013.215	24559544.08	3.6006	A	1.2
8	☐			10301.70	0.0015	P	6.4

$$y = 3.5958\text{E-}004 * x + 1.1259\text{E-}005$$

$$R = 0.9999$$

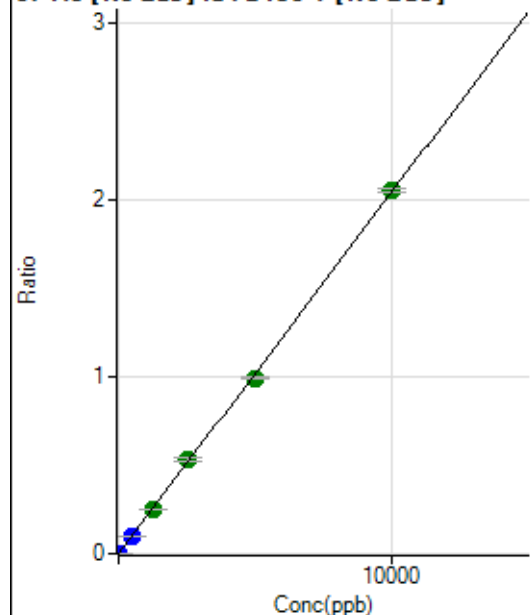
$$DL = 0.01178$$

$$BEC = 0.03131$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	17.78	0.0000	P	28.6
2	☐	5.000	4.519	7463.18	0.0009	P	2.3
3	☐	500.000	494.910	793294.28	0.1011	P	1.7
4	☐	1250.000	1242.301	1896828.71	0.2539	A	0.8
5	☐	2500.000	2597.881	3625693.73	0.5309	A	3.7
6	☐	5000.000	4862.454	6930752.12	0.9937	A	0.9
7	☐	10000.000	10045.520	14002311.59	2.0529	A	1.1
8	☐			5753.48	0.0009	P	8.7

$$y = 2.0436E-004 * x + 2.2248E-006$$

$$R = 0.9998$$

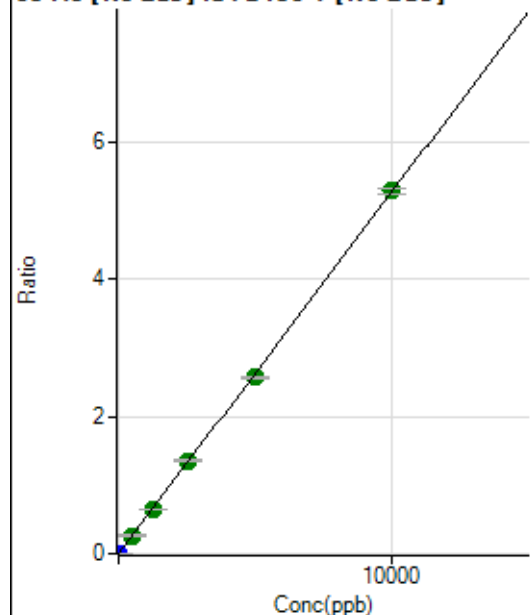
$$DL = 0.009346$$

$$BEC = 0.01089$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	45.56	0.0000	P	26.0
2	☐	5.000	4.456	18984.19	0.0024	P	1.6
3	☐	500.000	501.492	2073334.40	0.2644	A	3.5
4	☐	1250.000	1240.936	4888164.44	0.6543	A	1.0
5	☐	2500.000	2579.794	9289233.34	1.3601	A	3.5
6	☐	5000.000	4875.319	17927618.20	2.5704	A	1.3
7	☐	10000.000	10043.450	36116524.46	5.2952	A	1.4
8	☐			14634.52	0.0022	P	8.0

$$y = 5.2723E-004 * x + 5.7052E-006$$

$$R = 0.9999$$

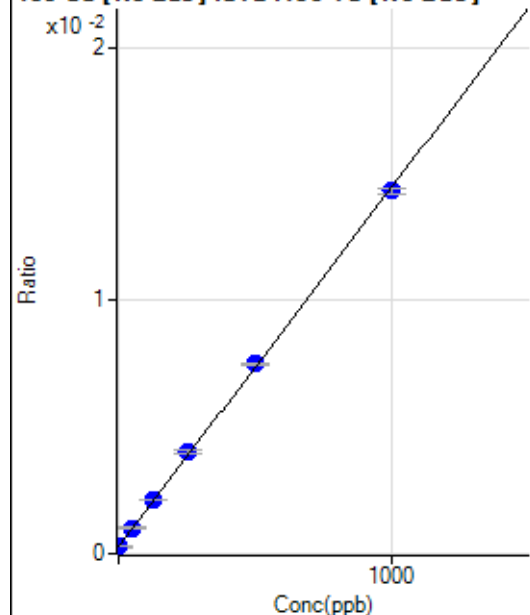
$$DL = 0.008449$$

$$BEC = 0.01082$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	2453.58	0.0003	P	5.2
2	☐	1.000	0.959	2582.50	0.0003	P	1.6
3	☐	50.000	52.298	9155.35	0.0010	P	3.9
4	☐	125.000	132.072	18443.54	0.0021	P	0.8
5	☐	250.000	264.350	32762.18	0.0040	P	4.9
6	☐	500.000	509.112	61258.56	0.0075	P	1.3
7	☐	1000.000	990.857	118662.96	0.0143	P	1.7
8	☐			1909.04	0.0002	P	1.8

$$y = 1.4183\text{E-}005 * x + 2.7035\text{E-}004$$

R = 0.9998

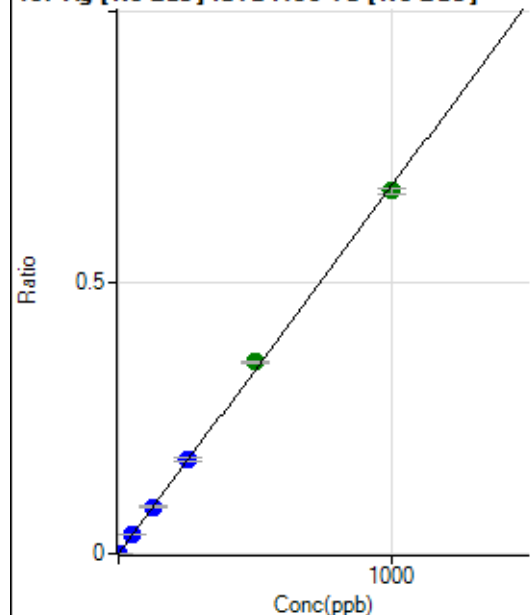
DL = 2.998

BEC = 19.06

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	94.44	0.0000	P	2.4
2	☐	1.000	0.945	5914.65	0.0007	P	2.8
3	☐	50.000	51.788	317210.39	0.0351	P	0.9
4	☐	125.000	128.040	746044.18	0.0867	P	1.0
5	☐	250.000	257.903	1423359.27	0.1746	P	4.6
6	☐	500.000	521.007	2884981.10	0.3528	A	0.6
7	☐	1000.000	987.052	5537027.83	0.6684	A	1.4
8	☐			1048.94	0.0001	P	3.4

$$y = 6.7712\text{E-}004 * x + 1.0407\text{E-}005$$

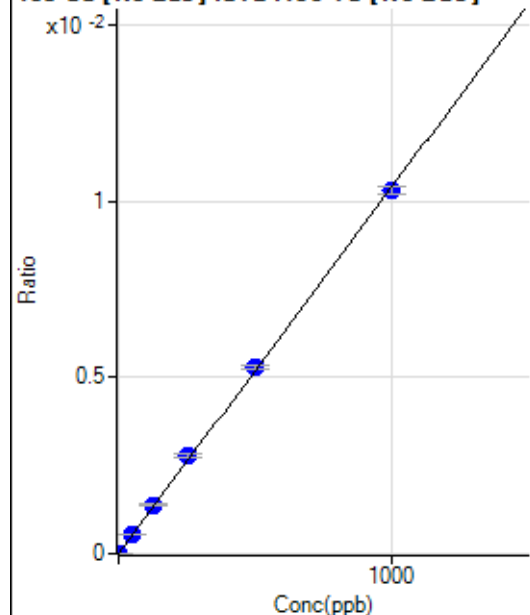
R = 0.9996

DL = 0.001118

BEC = 0.01537

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	5.56	0.0000	P	91.7
2	☐	1.000	1.190	117.78	0.0000	P	20.6
3	☐	50.000	53.914	5066.54	0.0006	P	1.0
4	☐	125.000	132.878	11871.86	0.0014	P	1.7
5	☐	250.000	267.079	22596.35	0.0028	P	5.1
6	☐	500.000	508.099	43132.92	0.0053	P	1.5
7	☐	1000.000	990.500	85174.43	0.0103	P	2.0
8	☐			93.34	0.0000	P	19.9

$$y = 1.0380\text{E-}005 * x + 6.1407\text{E-}007$$

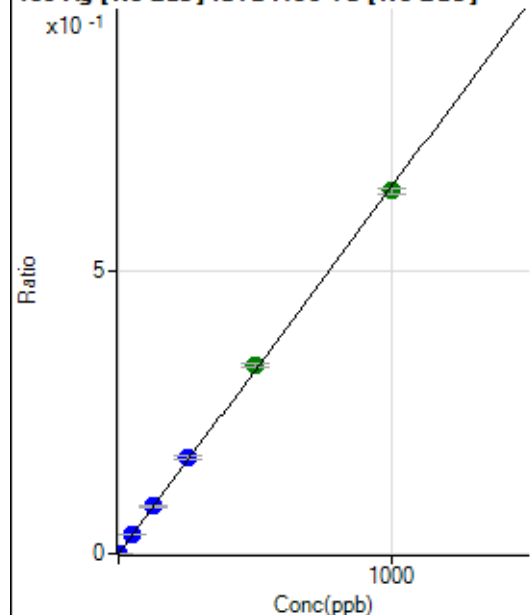
$$R = 0.9998$$

$$DL = 0.1628$$

$$BEC = 0.05916$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	75.56	0.0000	P	2.2
2	☐	1.000	0.936	5591.20	0.0006	P	1.6
3	☐	50.000	51.620	302567.90	0.0335	P	0.5
4	☐	125.000	128.724	717717.85	0.0834	P	1.3
5	☐	250.000	261.472	1381048.49	0.1694	P	4.5
6	☐	500.000	515.469	2731276.14	0.3340	A	2.1
7	☐	1000.000	988.851	5308134.96	0.6408	A	1.9
8	☐			1051.16	0.0001	P	3.8

$$y = 6.4798\text{E-}004 * x + 8.3250\text{E-}006$$

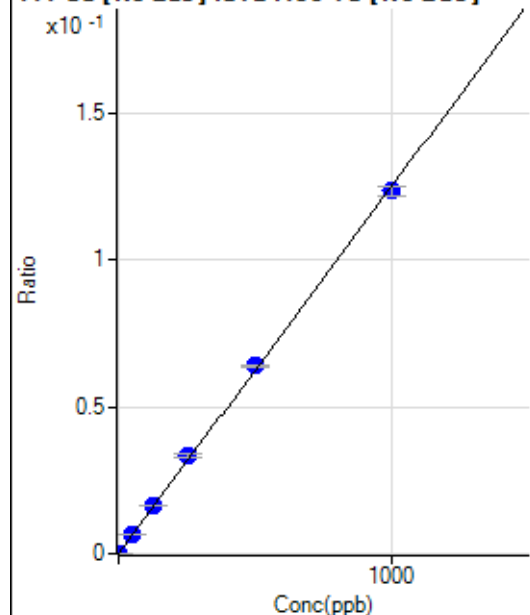
$$R = 0.9997$$

$$DL = 0.0008565$$

$$BEC = 0.01285$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	258.14	0.0000	P	5.4
2	☐	1.000	1.025	1424.77	0.0002	P	1.7
3	☐	50.000	53.135	60346.77	0.0067	P	0.8
4	☐	125.000	131.476	141686.98	0.0165	P	1.4
5	☐	250.000	267.043	272299.77	0.0334	P	5.6
6	☐	500.000	512.446	524198.53	0.0641	P	1.4
7	☐	1000.000	988.550	1024186.71	0.1236	P	2.3
8	☐			847.82	0.0001	P	3.2

$$y = 1.2504\text{E-}004 * x + 2.8441\text{E-}005$$

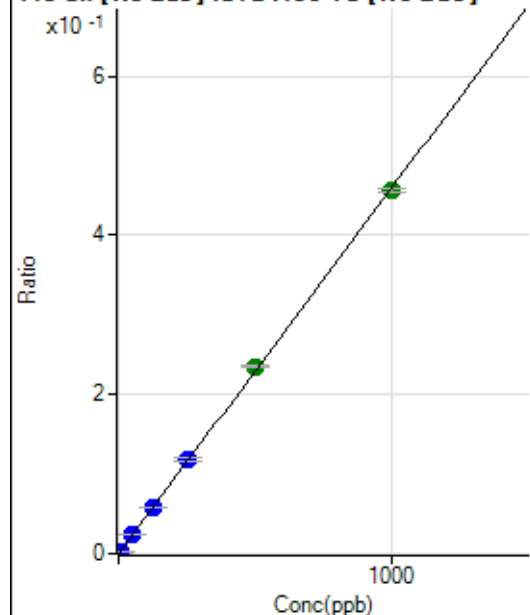
$$R = 0.9997$$

$$DL = 0.03663$$

$$BEC = 0.2275$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	585.58	0.0001	P	2.0
2	☐	5.000	4.706	20241.68	0.0022	P	0.9
3	☐	50.000	50.327	209575.32	0.0232	P	0.4
4	☐	125.000	126.198	499145.61	0.0580	P	0.6
5	☐	250.000	255.844	958064.26	0.1175	P	4.4
6	☐	500.000	511.254	1920225.28	0.2348	A	1.0
7	☐	1000.000	992.747	3777066.34	0.4559	A	1.0
8	☐			2961.46	0.0004	P	5.7

$$y = 4.5917\text{E-}004 * x + 6.4526\text{E-}005$$

$$R = 0.9999$$

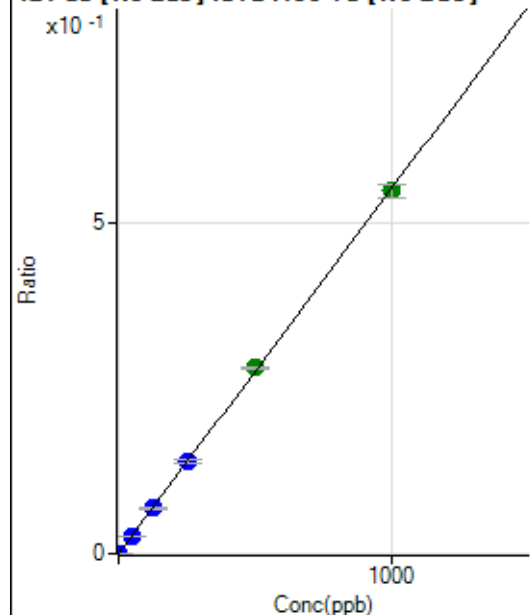
$$DL = 0.008559$$

$$BEC = 0.1405$$

Weight: <None>

Min Conc: 0

121 Sb [No Gas] ISTD : 159 Tb [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	41.11	0.0000	P	17.3
2	☐	2.000	1.868	9426.66	0.0010	P	1.4
3	☐	50.000	49.645	248050.81	0.0274	P	0.1
4	☐	125.000	124.381	591191.00	0.0687	P	0.9
5	☐	250.000	253.778	1142420.09	0.1402	P	5.1
6	☐	500.000	510.052	2303900.65	0.2818	A	1.4
7	☐	1000.000	994.125	4548564.45	0.5491	A	3.5
8	☐			4738.64	0.0006	P	3.9

$$y = 5.5239\text{E-}004 * x + 4.5323\text{E-}006$$

$$R = 0.9999$$

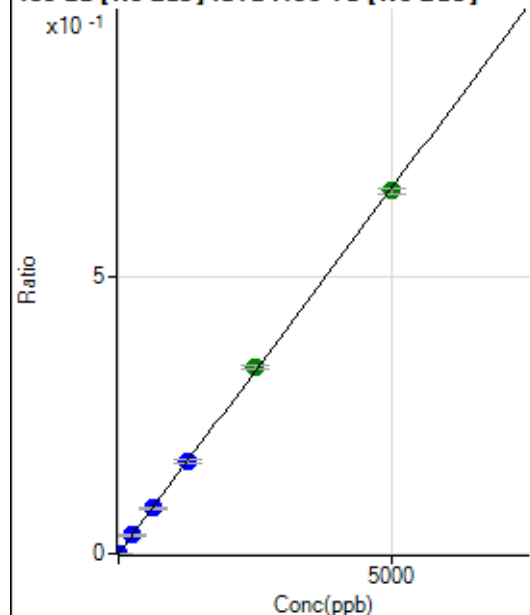
$$DL = 0.004264$$

$$BEC = 0.008205$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	92.22	0.0000	P	8.6
2	☐	10.000	9.361	11353.72	0.0012	P	1.3
3	☐	250.000	250.250	299420.23	0.0331	P	0.5
4	☐	625.000	621.447	707267.28	0.0822	P	1.1
5	☐	1250.000	1275.503	1375332.55	0.1687	P	4.1
6	☐	2500.000	2556.844	2765371.45	0.3382	A	1.6
7	☐	5000.000	4965.635	5440857.35	0.6568	A	1.7
8	☐			2703.63	0.0003	P	6.4

$$y = 1.3226\text{E-}004 * x + 1.0159\text{E-}005$$

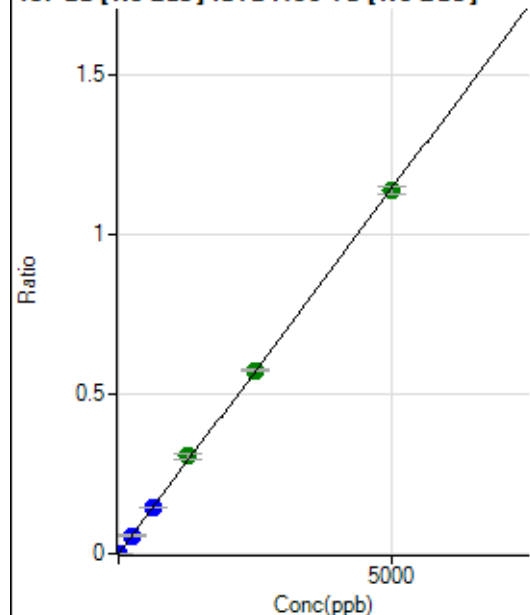
$$R = 0.9999$$

$$DL = 0.01993$$

$$BEC = 0.07681$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	65.56	0.0000	P	18.8
2	☐	10.000	9.577	20003.80	0.0022	P	1.3
3	☐	250.000	249.803	517138.61	0.0572	P	0.8
4	☐	625.000	635.765	1252173.16	0.1455	P	0.4
5	☐	1250.000	1331.294	2483658.31	0.3047	A	4.5
6	☐	2500.000	2514.116	4705583.85	0.5755	A	1.0
7	☐	5000.000	4971.283	9425964.03	1.1379	A	2.1
8	☐			4927.62	0.0006	P	5.9

$$y = 2.2889E-004 * x + 7.2196E-006$$

$$R = 0.9998$$

$$DL = 0.01777$$

$$BEC = 0.03154$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			14.44		P	35.3
2	☐			6.67		P	50.0
3	☐			25.56		P	32.8
4	☐			48.89		P	27.6
5	☐			113.34		P	21.2
6	☐			168.89		P	15.8
7	☐			335.56		P	12.0
8	☐			201.11		P	9.1

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t.	RSD
1	☐			4.44		P	43.4
2	☐			1.11		P	173.2
3	☐			2.22		P	86.6
4	☐			7.78		P	65.5
5	☐			12.22		P	56.8
6	☐			21.11		P	24.1
7	☐			47.78		P	17.6
8	☐			53.33		P	27.2

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t.	RSD
1	☐			5.56		P	91.6
2	☐			6.67		P	50.0
3	☐			31.11		P	32.7
4	☐			63.33		P	19.0
5	☐			83.33		P	24.3
6	☐			147.78		P	4.7
7	☐			348.90		P	3.9
8	☐			1027.83		P	11.0

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t.	RSD
1	☐			2.22		P	173.2
2	☐			2.22		P	86.6
3	☐			15.56		P	12.4
4	☐			27.78		P	30.2
5	☐			44.44		P	63.8
6	☐			94.44		P	13.4
7	☐			181.12		P	7.4
8	☐			488.90		P	2.8

160 Gd [No Gas] Noavailable calibration poin_

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t.	RSD
1	☐			75.55		P	17.8
2	☐			83.33		P	17.4
3	☐			94.45		P	19.4
4	☐			110.00		P	30.8
5	☐			135.56		P	16.7
6	☐			228.89		P	11.3
7	☐			374.46		P	3.6
8	☐			1216.74		P	3.1

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			96.67		P	24.9
2	☐			106.67		P	14.3
3	☐			105.56		P	21.0
4	☐			112.22		P	9.5
5	☐			126.67		P	5.3
6	☐			163.34		P	10.8
7	☐			221.12		P	16.5
8	☐			666.69		P	8.4

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			72.22		P	27.0
2	☐			67.78		P	35.6
3	☐			62.22		P	3.1
4	☐			67.78		P	10.2
5	☐			85.56		P	31.5
6	☐			126.67		P	7.0
7	☐			187.78		P	18.6
8	☐			187.78		P	13.3

164 Er [He] No available calibration points

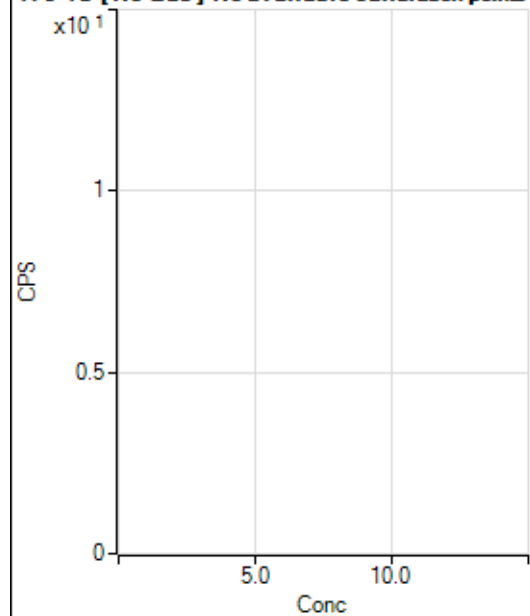
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			34.44		P	29.6
2	☐			26.67		P	12.5
3	☐			20.00		P	50.0
4	☐			26.67		P	12.5
5	☐			31.11		P	16.4
6	☐			40.00		P	38.2
7	☐			62.22		P	27.0
8	☐			95.56		P	33.0

172 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			63.33		P	22.9
2	☐			53.33		P	6.3
3	☐			66.67		P	26.5
4	☐			84.44		P	6.0
5	☐			96.67		P	18.2
6	☐			130.00		P	27.1
7	☐			173.33		P	8.8
8	☐			116.67		P	10.3

172 Yb [He] No available calibration points

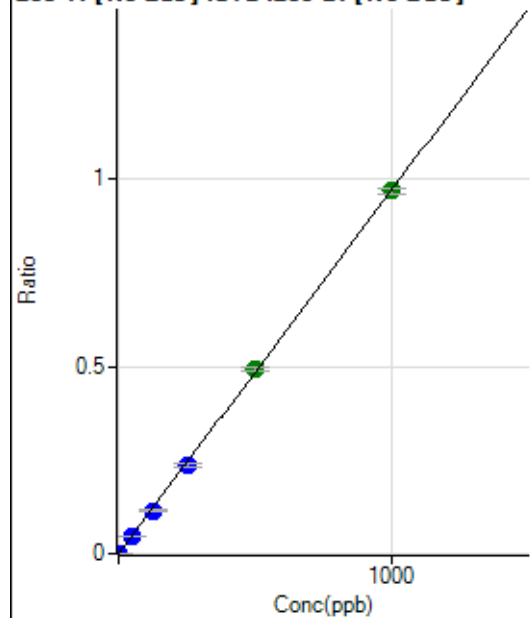
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			30.00		P	22.2
2	☐			21.11		P	24.1
3	☐			22.22		P	62.4
4	☐			38.89		P	51.7
5	☐			46.67		P	21.4
6	☐			60.00		P	47.5
7	☐			76.67		P	34.5
8	☐			74.44		P	12.9

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			1277.85		P	6.9
2	☐			1243.41		P	6.0
3	☐			2359.13		P	7.4
4	☐			3978.43		P	1.4
5	☐			6630.63		P	1.9
6	☐			12189.06		P	0.4
7	☐			23227.17		P	2.2
8	☐			1006.71		P	2.8

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			9566.90		P	5.7
2	☐			9715.88		P	0.9
3	☐			9376.75		P	1.7
4	☐			9870.43		P	2.3
5	☐			10629.92		P	2.2
6	☐			12771.81		P	3.7
7	☐			17122.28		P	0.8
8	☐			8901.95		P	3.9

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	180.01	0.0000	P	23.1
2	☐	1.000	0.864	5300.03	0.0009	P	1.4
3	☐	50.000	47.547	277619.98	0.0462	P	1.2
4	☐	125.000	118.807	674792.03	0.1153	P	1.5
5	☐	250.000	245.425	1318440.80	0.2382	P	4.7
6	☐	500.000	507.288	2727771.30	0.4923	A	2.5
7	☐	1000.000	998.397	5394233.50	0.9689	A	1.5
8	☐			2010.18	0.0004	P	12.7

$$y = 9.7046E-004 * x + 2.9607E-005$$

$$R = 0.9999$$

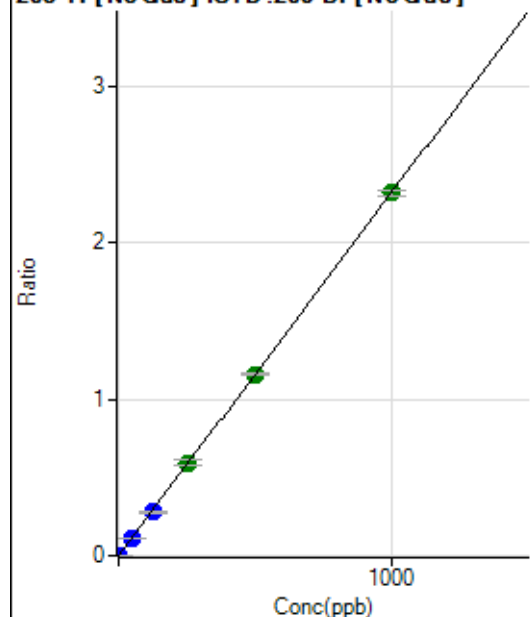
$$DL = 0.02116$$

$$BEC = 0.03051$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	383.35	0.0001	P	7.2
2	☐	1.000	0.872	12731.90	0.0021	P	3.6
3	☐	50.000	47.698	665510.37	0.1107	P	1.9
4	☐	125.000	119.258	1618738.34	0.2767	P	1.3
5	☐	250.000	256.392	3291188.21	0.5947	A	5.4
6	☐	500.000	499.519	6419625.18	1.1586	A	1.6
7	☐	1000.000	999.476	12905691.89	2.3181	A	1.6
8	☐			4988.79	0.0010	P	6.9

$$y = 0.0023 * x + 6.2918E-005$$

$$R = 1.0000$$

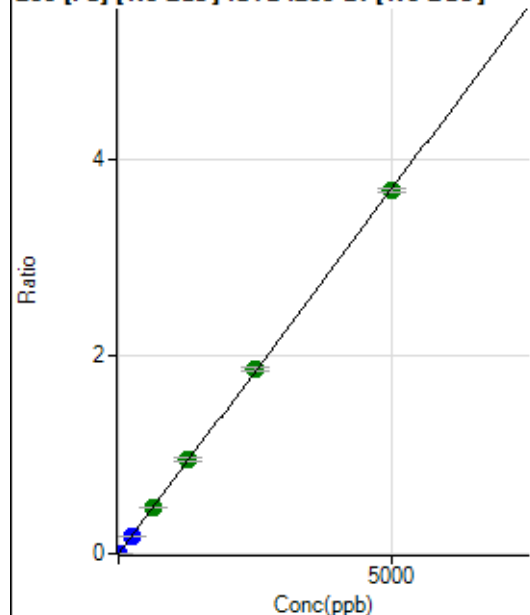
$$DL = 0.005873$$

$$BEC = 0.02713$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	285.56	0.0000	P	10.2
2	☐	1.000	0.938	4520.83	0.0007	P	2.7
3	☐	250.000	238.767	1061966.78	0.1766	P	2.1
4	☐	625.000	629.646	2724760.93	0.4657	A	1.9
5	☐	1250.000	1293.233	5293720.34	0.9565	A	5.0
6	☐	2500.000	2525.671	10349577.48	1.8680	A	2.6
7	☐	5000.000	4976.337	20491102.33	3.6804	A	0.9
8	☐			10404.27	0.0021	P	4.5

$$y = 7.3958E-004 * x + 4.6893E-005$$

$$R = 0.9999$$

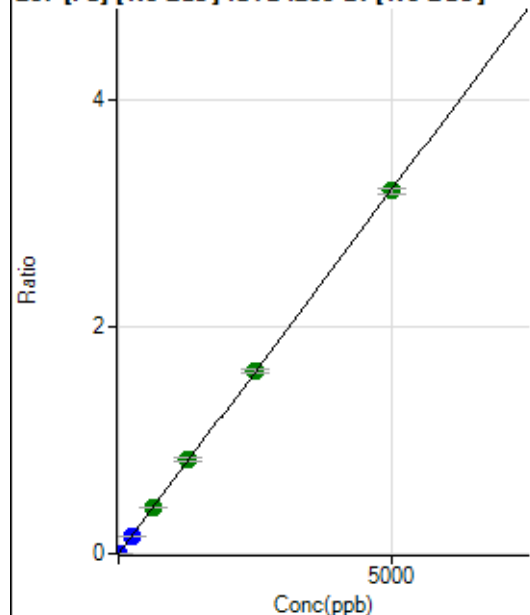
$$DL = 0.01946$$

$$BEC = 0.0634$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	234.45	0.0000	P	17.8
2	☐	1.000	0.946	3933.97	0.0006	P	0.6
3	☐	250.000	240.735	927118.35	0.1542	P	1.3
4	☐	625.000	629.793	2360088.66	0.4033	A	0.5
5	☐	1250.000	1295.993	4595076.53	0.8299	A	3.6
6	☐	2500.000	2503.367	8882648.27	1.6031	A	2.4
7	☐	5000.000	4986.682	17778718.07	3.1933	A	1.6
8	☐			8869.79	0.0018	P	4.9

$$y = 6.4036E-004 * x + 3.8494E-005$$

$$R = 0.9999$$

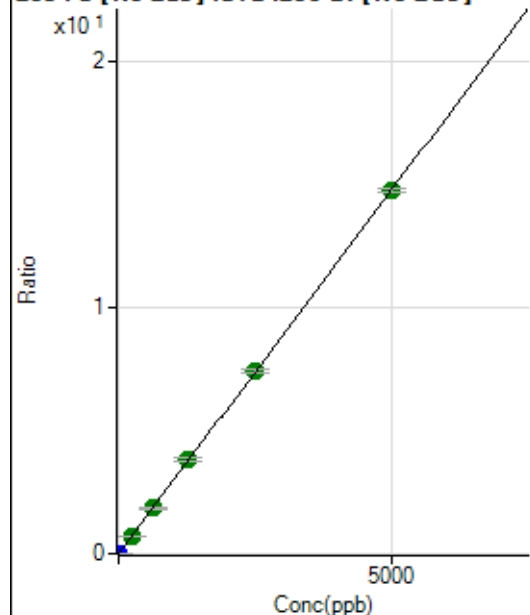
$$DL = 0.03211$$

$$BEC = 0.06011$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1101.14	0.0002	P	12.7
2	☐	1.000	0.921	17703.74	0.0029	P	1.3
3	☐	250.000	246.969	4386891.12	0.7296	A	1.6
4	☐	625.000	623.693	10779523.19	1.8423	A	1.2
5	☐	1250.000	1285.987	21028317.67	3.7985	A	4.0
6	☐	2500.000	2503.238	40967514.18	7.3938	A	2.2
7	☐	5000.000	4989.699	82055091.41	14.7378	A	1.0
8	☐			41072.58	0.0081	P	5.0

$$y = 0.0030 * x + 1.8086E-004$$

$$R = 1.0000$$

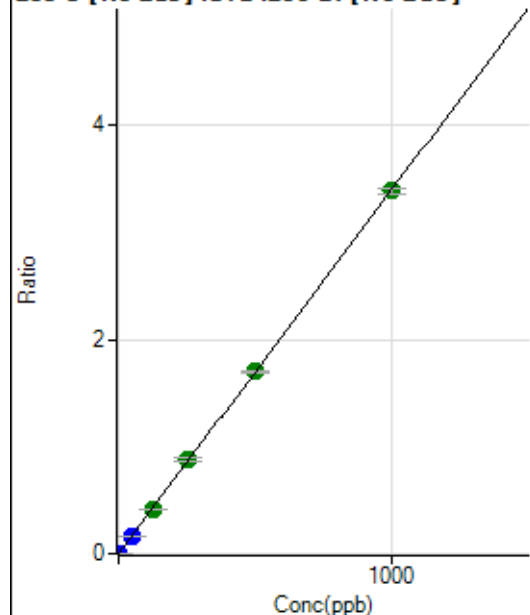
$$DL = 0.02336$$

$$BEC = 0.06123$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	114.45	0.0000	P	44.6
2	☐	1.000	0.839	17535.55	0.0029	P	2.0
3	☐	50.000	46.299	946386.57	0.1574	P	1.7
4	☐	125.000	123.493	2456564.68	0.4198	A	0.4
5	☐	250.000	257.903	4853401.60	0.8767	A	4.1
6	☐	500.000	501.451	9445319.65	1.7046	A	1.4
7	☐	1000.000	997.672	18882958.88	3.3915	A	1.4
8	☐			5332.31	0.0011	P	10.2

$$y = 0.0034 * x + 1.8768E-005$$

$$R = 0.9999$$

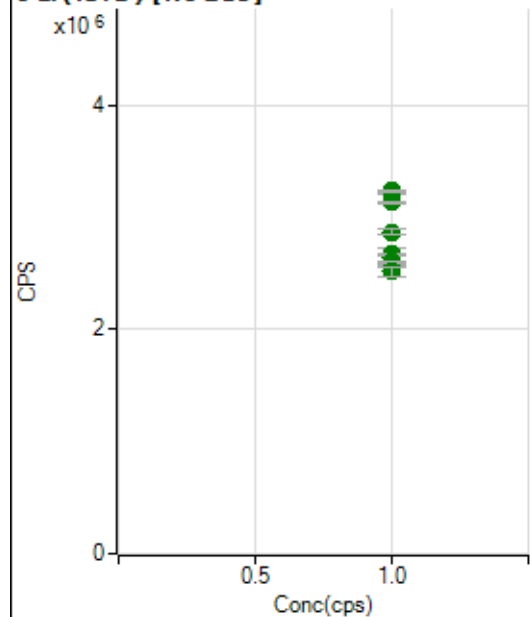
$$DL = 0.007381$$

$$BEC = 0.005521$$

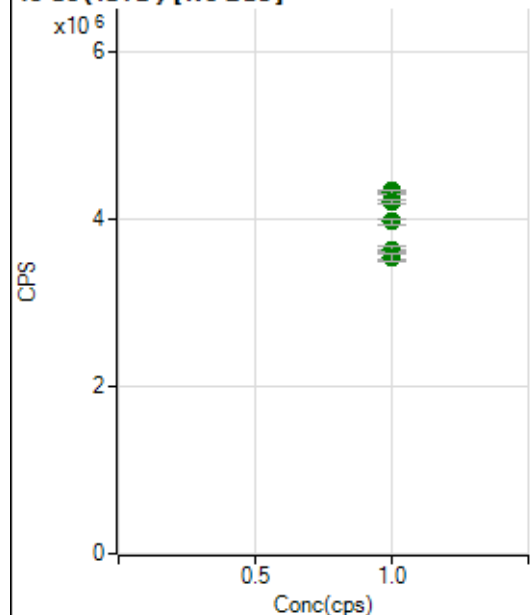
Weight: <None>

Min Conc: 0

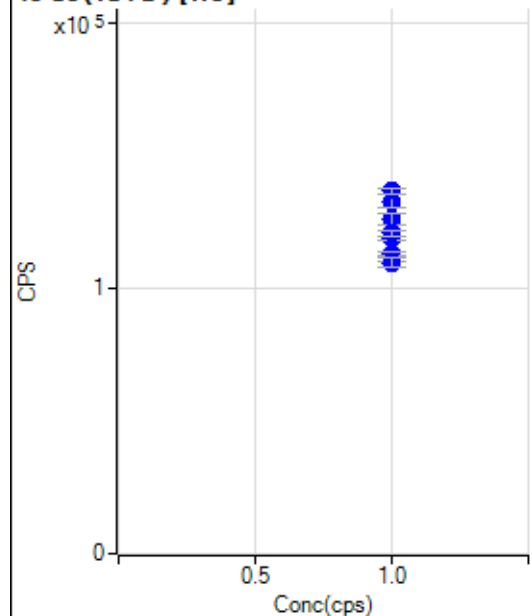
6 Li (ISTD) [No Gas]



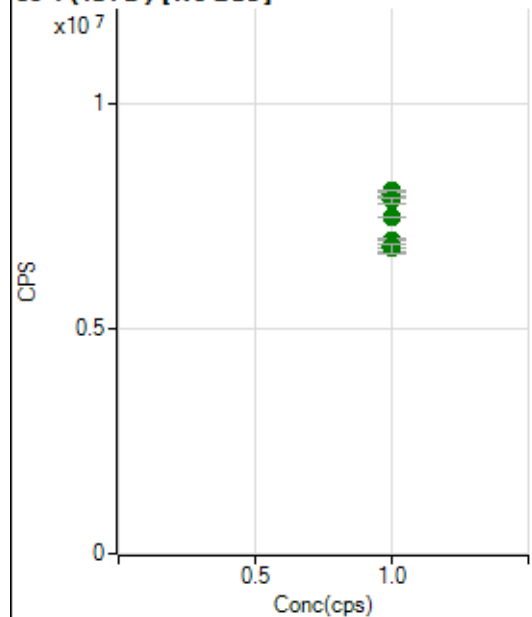
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3207104.87		A	0.5
2	☐	1.000		3234106.65		A	0.7
3	☐	1.000		3132150.96		A	0.7
4	☐	1.000		2868598.41		A	1.4
5	☐	1.000		2641580.32		A	5.9
6	☐	1.000		2665570.32		A	1.1
7	☐	1.000		2598027.57		A	0.7
8	☐	1.000		2513151.46		A	3.1

45 Sc (ISTD) [No Gas]

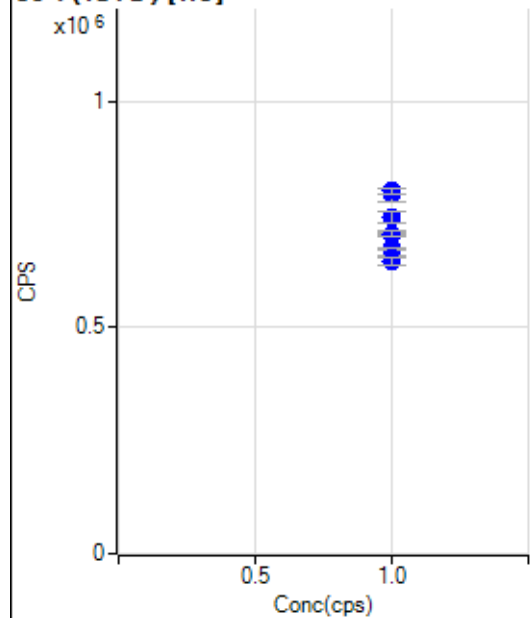
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		4331570.21		A	0.8
2	☐	1.000		4314597.54		A	1.4
3	☐	1.000		4205037.92		A	1.2
4	☐	1.000		3966036.19		A	1.5
5	☐	1.000		3592666.13		A	5.1
6	☐	1.000		3605376.89		A	0.9
7	☐	1.000		3637862.55		A	1.4
8	☐	1.000		3533837.31		A	2.8

45 Sc (ISTD) [He]

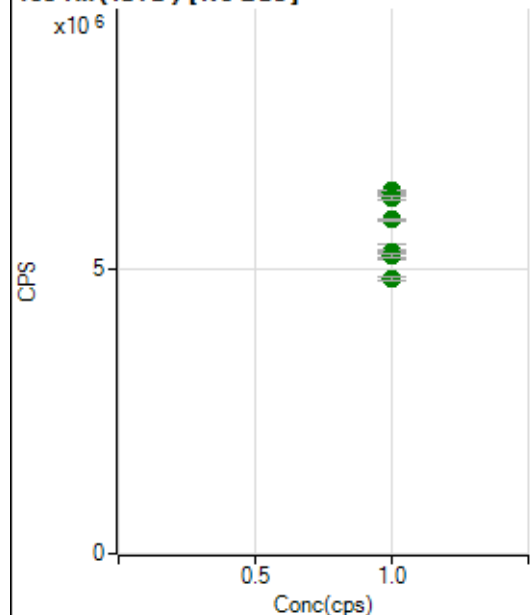
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		132601.05		P	4.1
2	☐	1.000		136487.47		P	1.7
3	☐	1.000		125827.52		P	3.7
4	☐	1.000		118903.02		P	1.4
5	☐	1.000		113162.23		P	1.3
6	☐	1.000		109927.38		P	0.4
7	☐	1.000		109523.88		P	3.0
8	☐	1.000		120500.08		P	2.1

89 Y (ISTD) [No Gas]

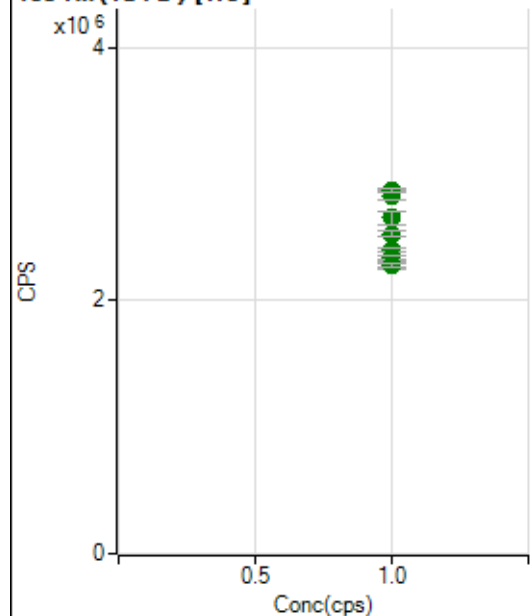
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		7988436.48		A	0.8
2	☐	1.000		8061800.92		A	0.5
3	☐	1.000		7845182.80		A	2.0
4	☐	1.000		7471347.60		A	0.2
5	☐	1.000		6834727.54		A	3.3
6	☐	1.000		6975031.42		A	0.7
7	☐	1.000		6821262.88		A	1.1
8	☐	1.000		6777163.09		A	2.9

89 Y (ISTD) [He]

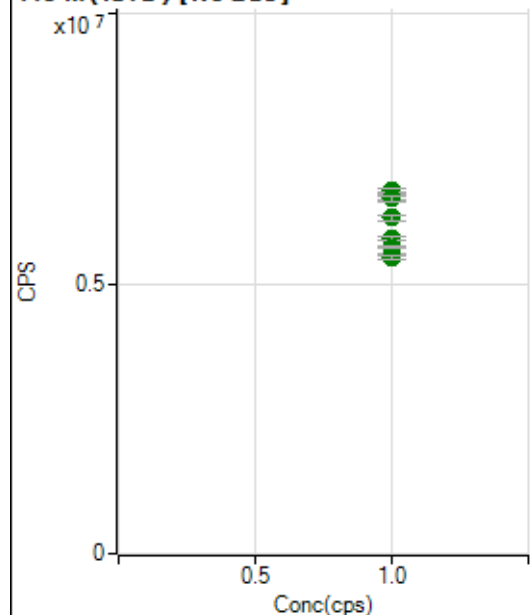
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		792175.85		P	3.8
2	☐	1.000		801227.84		P	1.3
3	☐	1.000		743468.36		P	3.7
4	☐	1.000		706664.69		P	0.7
5	☐	1.000		674196.65		P	0.8
6	☐	1.000		655475.65		P	0.7
7	☐	1.000		644237.97		P	2.4
8	☐	1.000		705879.73		P	1.6

103 Rh (ISTD) [No Gas]

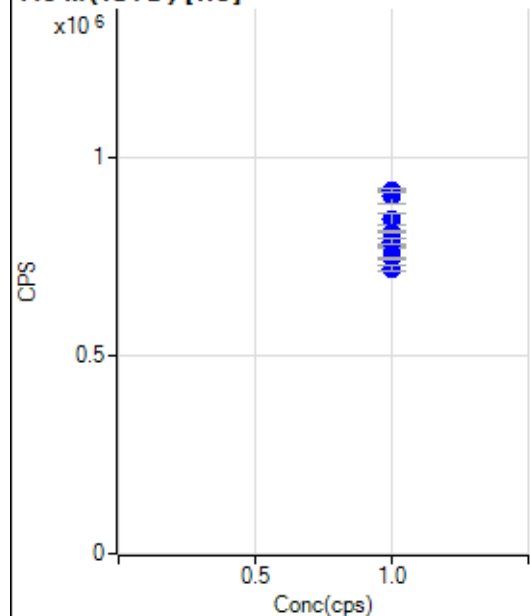
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		6386855.95		A	0.7
2	☐	1.000		6367640.32		A	0.7
3	☐	1.000		6276533.59		A	1.1
4	☐	1.000		5876768.87		A	0.9
5	☐	1.000		5319949.68		A	5.1
6	☐	1.000		5326020.82		A	0.6
7	☐	1.000		5234340.44		A	1.2
8	☐	1.000		4851033.71		A	1.3

103 Rh (ISTD) [He]

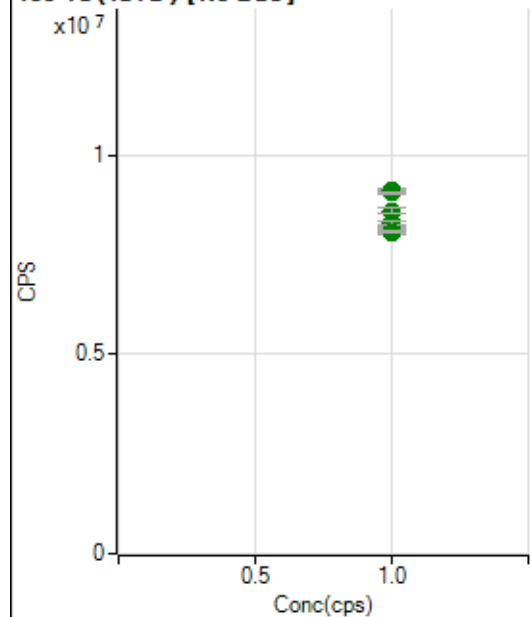
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2833225.69		A	3.1
2	☐	1.000		2867035.34		A	1.0
3	☐	1.000		2655910.65		A	4.0
4	☐	1.000		2530158.84		A	2.2
5	☐	1.000		2398346.96		A	1.5
6	☐	1.000		2342412.05		A	1.0
7	☐	1.000		2275646.11		A	2.8
8	☐	1.000		2283655.14		A	1.5

115 In (ISTD) [No Gas]

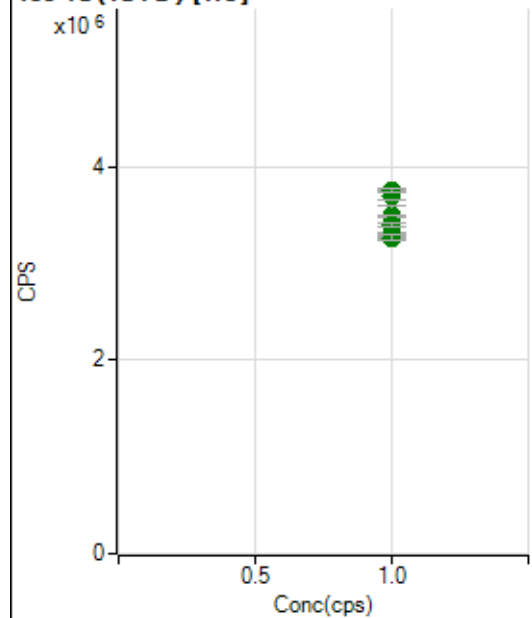
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		6606429.09		A	1.4
2	☐	1.000		6714645.92		A	1.0
3	☐	1.000		6574034.90		A	1.4
4	☐	1.000		6212863.89		A	1.4
5	☐	1.000		5672266.57		A	4.2
6	☐	1.000		5835344.61		A	1.4
7	☐	1.000		5674469.59		A	0.5
8	☐	1.000		5494135.83		A	1.4

115 In (ISTD) [He]

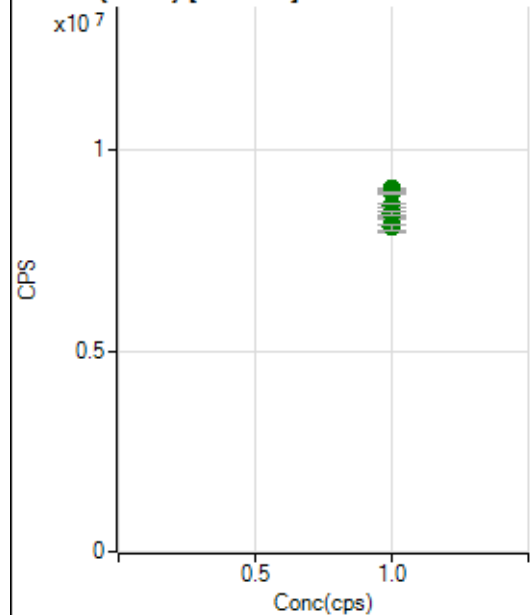
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		902132.75		P	3.5
2	☐	1.000		916976.58		P	1.1
3	☐	1.000		847514.77		P	3.4
4	☐	1.000		812944.24		P	0.7
5	☐	1.000		774176.81		P	0.3
6	☐	1.000		747151.51		P	0.5
7	☐	1.000		721256.73		P	2.4
8	☐	1.000		789011.36		P	2.0

159 Tb (ISTD) [No Gas]

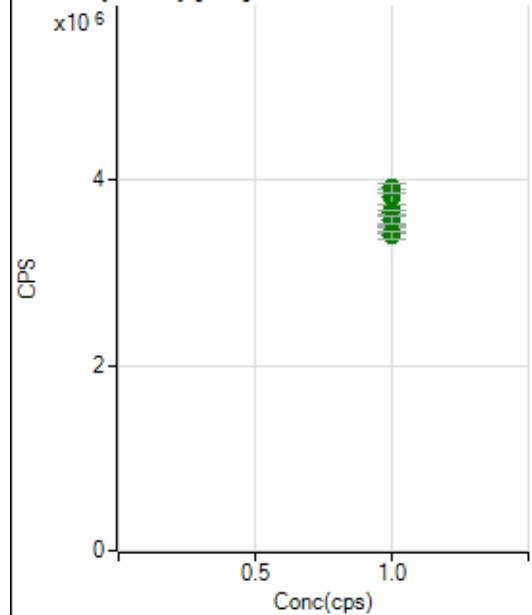
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		9075499.03		A	0.5
2	☐	1.000		9095499.10		A	0.9
3	☐	1.000		9043724.94		A	0.9
4	☐	1.000		8604804.39		A	1.6
5	☐	1.000		8161133.14		A	4.3
6	☐	1.000		8177488.63		A	0.5
7	☐	1.000		8285558.21		A	1.5
8	☐	1.000		8073529.26		A	1.1

159 Tb (ISTD) [He]

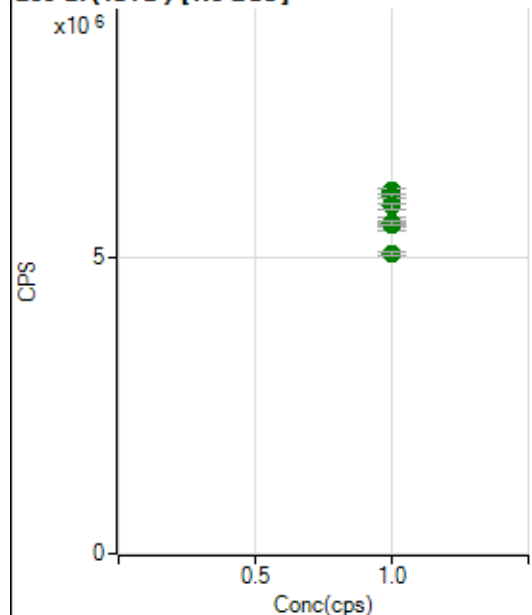
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3702353.66		A	2.9
2	☐	1.000		3748826.58		A	0.9
3	☐	1.000		3503438.14		A	5.0
4	☐	1.000		3486832.00		A	0.8
5	☐	1.000		3316499.95		A	0.5
6	☐	1.000		3270477.07		A	0.5
7	☐	1.000		3265908.81		A	2.2
8	☐	1.000		3393314.18		A	1.0

165 Ho (ISTD) [No Gas]

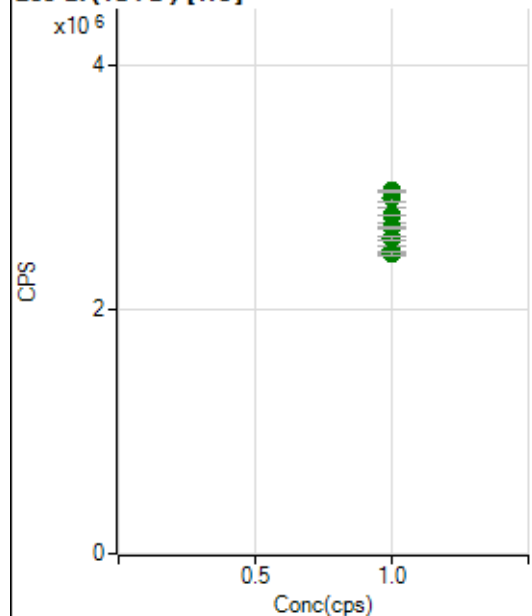
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		8997906.39		A	0.4
2	☐	1.000		9046331.60		A	0.7
3	☐	1.000		8945483.34		A	0.6
4	☐	1.000		8644212.30		A	1.3
5	☐	1.000		8127684.46		A	4.0
6	☐	1.000		8323124.11		A	0.6
7	☐	1.000		8442191.40		A	0.7
8	☐	1.000		8082363.14		A	1.9

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3818389.32		A	4.0
2	☐	1.000		3915808.62		A	2.5
3	☐	1.000		3674452.44		A	2.9
4	☐	1.000		3656645.78		A	1.4
5	☐	1.000		3496638.56		A	1.0
6	☐	1.000		3424740.89		A	0.3
7	☐	1.000		3402538.04		A	2.6
8	☐	1.000		3571460.88		A	2.3

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		6098068.31		A	2.0
2	☐	1.000		6105775.39		A	1.5
3	☐	1.000		6013166.44		A	1.1
4	☐	1.000		5851741.09		A	1.5
5	☐	1.000		5542154.43		A	4.2
6	☐	1.000		5541581.17		A	1.3
7	☐	1.000		5567757.90		A	1.0
8	☐	1.000		5051812.74		A	0.9

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2921043.60		A	2.8
2	☐	1.000		2976642.84		A	0.4
3	☐	1.000		2776860.62		A	4.2
4	☐	1.000		2776776.04		A	0.5
5	☐	1.000		2675045.52		A	0.8
6	☐	1.000		2588928.08		A	1.4
7	☐	1.000		2499648.24		A	2.5
8	☐	1.000		2462888.70		A	1.4

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP8030524 MS1.b

Acq. Date-Time 2024-03-06 08:30:47

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		8955	89546.90			1.331	5.000
24		81188	811876.26			1.393	5.000
25		10897	108968.95			1.065	5.000
26		12976	129756.62			1.579	5.000
59		59948	599478.62			0.734	5.000
113		7180	71804.72			0.918	5.000
115		92097	920968.84			1.185	5.000
206		24400	244003.13			0.622	5.000
207		22152	221516.99			0.929	5.000
208		53394	533943.11			0.526	5.000
220		0	1.90			50.619	

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

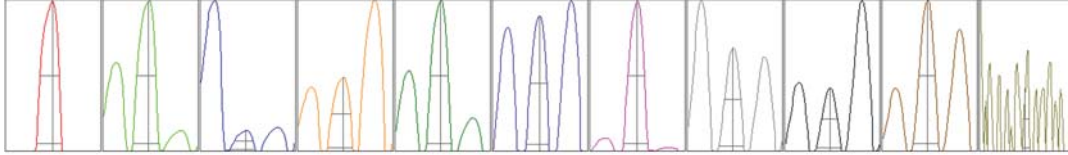
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	9082	8795	9061	8942	8894
24	82341	79971	82308	81156	80162
25	11064	10795	10970	10844	10812
26	13217	12810	13095	13034	12722
59	60451	59610	60009	60269	59400
113	7288	7119	7194	7149	7151
115	93158	91402	91868	90785	93271
206	24487	24222	24478	24560	24254
207	22316	22049	22383	22137	21873
208	53436	53171	53592	53721	53051

US EPA Tune Check Report

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
220	0	0	0	0	0

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	15583.05	9.00	8.90 - 9.10	
24	141691.40	23.95	23.90 - 24.10	
25	19008.50	24.95	24.90 - 25.10	
26	21976.12	25.95	25.90 - 26.10	
59	111080.22	58.95	58.90 - 59.10	
113	14199.17	113.00	112.90 - 113.10	
115	183334.13	115.00	114.90 - 115.10	
206	47992.47	205.95	205.90 - 206.10	
207	44221.10	206.95	206.90 - 207.10	
208	105423.04	207.95	207.90 - 208.10	
220	0.25	219.95	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.61	0.788	0.900	
24	0.61	0.822	0.900	
25	0.59	0.787	0.900	
26	0.62	0.787	0.900	
59	0.56	0.781	0.900	
113	0.52	0.728	0.900	
115	0.51	0.768	0.900	
206	0.51	0.786	0.900	
207	0.49	0.780	0.900	
208	0.50	0.808	0.900	
220	0.19	0.244		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.85 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	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	9.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	9.6 V	Deflect	14.4 V
Extract 2	-195.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-110 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	120 V		

QP Parameters

Mass Gain	124	Axis Gain	0.9992	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	1.2 mm	Torch V	-1.0 mm
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EM

Discriminator	4.5 mV	Analog HV	2314 V	Pulse HV	1694 V
---------------	--------	-----------	--------	----------	--------

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		12881	128808.11			1.593	
89		9834	98339.34			1.946	
205		17517	175173.38			1.759	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	12943	13054	12524	12947	12936
89	9965	9982	9510	9828	9883
205	17792	17667	16992	17547	17589

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.85 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	9.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	9.6 V	Deflect	3.8 V
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US EPA Tune Check Report

Extract 2	-195.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-110 V	Cell Exit	-70 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	4.5 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		

QP Parameters

Mass Gain	124	Axis Gain	0.9992	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	1.2 mm	Torch V	-1.0 mm
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EM

Discriminator	4.5 mV	Analog HV	2314 V	Pulse HV	1694 V
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