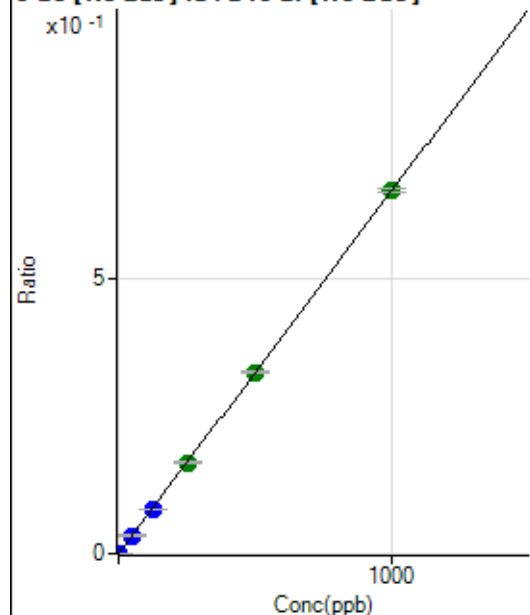


Calibration for 006CALS.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P8012825MS.b\
 Analysis File: P8012825MS.batch.bin
 DA Date-Time: 2025-01-28 17:18:11
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2025-01-28 12:10:06
2	006CALS.d	S02	2025-01-28 12:16:52
3	007CALB.d	S03	2025-01-28 12:20:13
4	008CALS.d	S04	2025-01-28 12:23:25
5	009CALS.d	S05	2025-01-28 12:26:27
6	010CALS.d	S06	2025-01-28 12:29:25
7	011CALS.d	S07	2025-01-28 12:32:15
8	012CALS.d	S08	2025-01-28 12:35:02

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	205.40	0.0000	P	4.7
2	☐	1.000	1.051	4759.35	0.0007	P	3.6
3	☐	50.000	50.126	214726.21	0.0330	P	1.6
4	☐	125.000	121.426	524925.50	0.0800	P	1.8
5	☐	250.000	250.939	1093394.64	0.1652	A	2.7
6	☐	500.000	499.388	2179665.04	0.3288	A	1.1
7	☐	1000.000	1000.512	4356270.63	0.6587	A	1.0
8	☐			1066.58	0.0002	P	11.2

$$y = 6.5830E-004 * x + 3.1412E-005$$

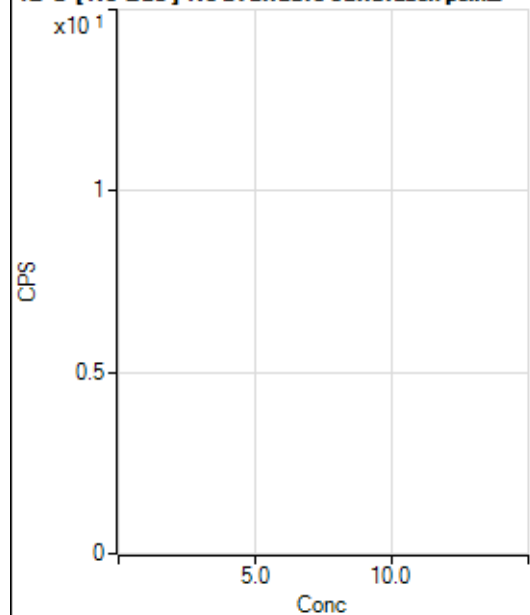
$$R = 1.0000$$

$$DL = 0.006708$$

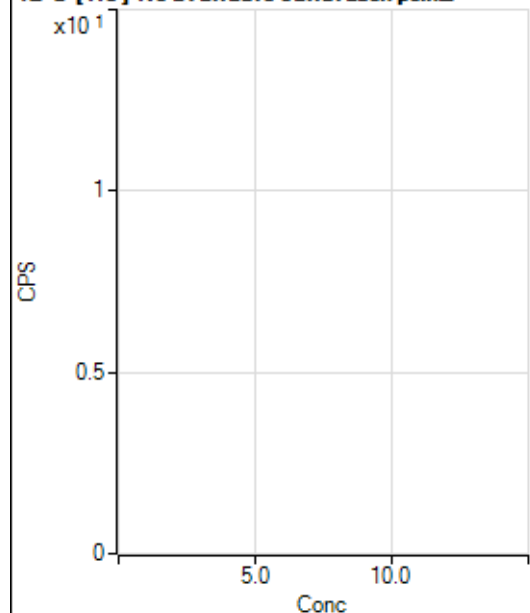
$$BEC = 0.04772$$

Weight: <None>

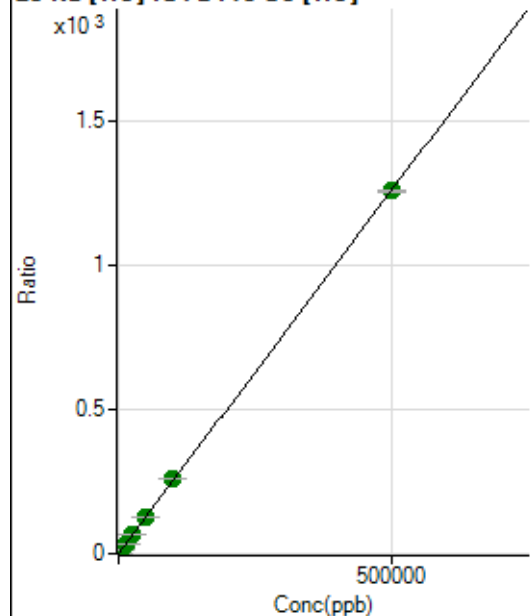
Min Conc: 0

12 C [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			1911508.08		A	1.8
2	☐			2016339.43		A	2.1
3	☐			2067327.59		A	1.7
4	☐			2222367.92		A	1.4
5	☐			2285811.32		A	0.6
6	☐			2539403.03		A	2.0
7	☐			3009697.25		A	2.1
8	☐			3003786.28		A	4.1

12 C [He] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			12767.84		P	1.5
2	☐			13676.43		P	0.8
3	☐			13920.00		P	0.9
4	☐			15048.89		P	1.6
5	☐			15955.38		P	1.2
6	☐			18554.03		P	1.3
7	☐			22607.44		P	2.2
8	☐			25947.37		P	1.3

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	19518.68	0.1671	P	1.1
2	☐	500.000	527.119	174261.46	1.4962	P	2.0
3	☐	5000.000	5251.127	1548141.21	13.4075	A	1.6
4	☐	12500.000	12809.759	3804851.65	32.4662	A	1.3
5	☐	25000.000	25710.155	7817287.94	64.9938	A	1.7
6	☐	50000.000	50287.607	15594208.65	126.9644	A	0.9
7	☐	100000.00	102767.78	32066987.02	259.2902	A	0.5
8	☐	500000.00	499371.89	118614633.7	1,259.305	A	0.8

$$y = 0.0025 * x + 0.1671$$

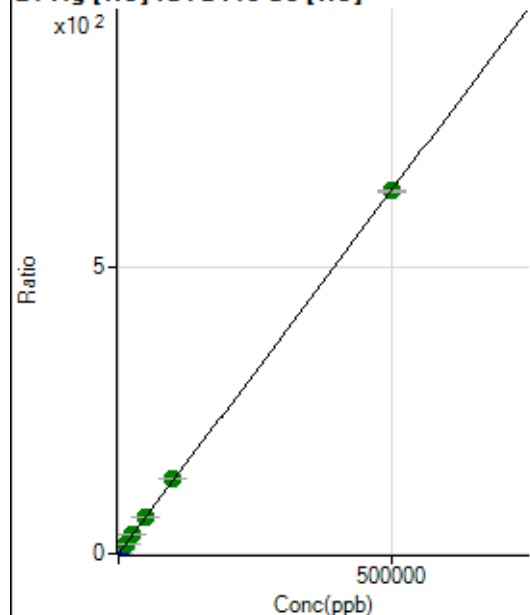
$$R = 1.0000$$

$$DL = 2.183$$

$$BEC = 66.26$$

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	1064.49	0.0091	P	8.5
2	☐	500.000	542.633	81419.86	0.6990	P	1.7
3	☐	5000.000	5160.497	758583.87	6.5703	P	0.6
4	☐	12500.000	13137.277	1958257.36	16.7122	A	2.5
5	☐	25000.000	26100.353	3992203.83	33.1938	A	2.1
6	☐	50000.000	50443.094	7878361.34	64.1439	A	0.9
7	☐	100000.00	102896.56	16180500.04	130.8347	A	1.3
8	☐	500000.00	499303.78	59796278.55	634.8379	A	0.7

$$y = 0.0013 * x + 0.0091$$

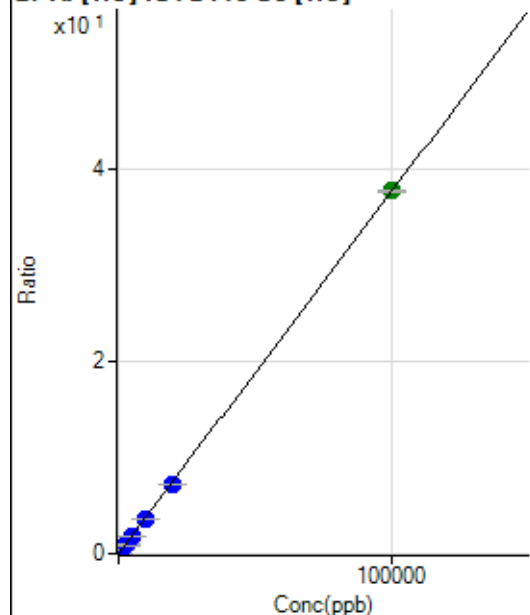
$$R = 1.0000$$

$$DL = 1.829$$

$$BEC = 7.166$$

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	50.00	0.0004	P	45.9
2	☐	20.000	19.686	913.37	0.0078	P	6.6
3	☐	1000.000	986.896	42966.53	0.3721	P	0.9
4	☐	2500.000	2396.646	105840.17	0.9031	P	1.9
5	☐	5000.000	4808.408	217886.83	1.8116	P	1.9
6	☐	10000.000	9477.065	438497.09	3.5700	P	0.3
7	☐	20000.000	19180.047	893501.59	7.2247	P	0.3
8	☐	100000.00	100228.57	3555920.47	37.7523	A	0.5

$$y = 3.7666E-004 * x + 4.2742E-004$$

$$R = 1.0000$$

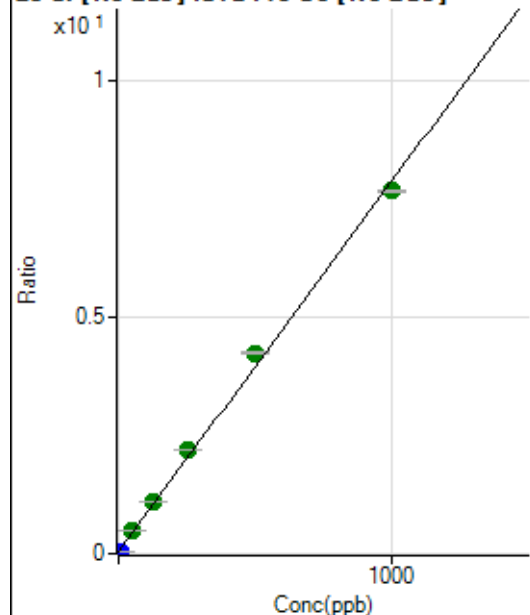
$$DL = 1.564$$

$$BEC = 1.135$$

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	326451.57	0.0454	P	1.0
2	☐	10.000	1.045	383999.76	0.0536	P	0.1
3	☐	50.000	56.593	3417983.91	0.4875	A	1.6
4	☐	125.000	135.320	7923163.22	1.1025	A	1.3
5	☐	250.000	275.834	15878850.60	2.2002	A	0.8
6	☐	500.000	534.748	31318312.87	4.2227	A	1.0
7	☐	1000.000	974.637	56990910.82	7.6590	A	0.3
8	☐			426321.88	0.0695	P	3.5

$$y = 0.0078 * x + 0.0454$$

$$R = 0.9985$$

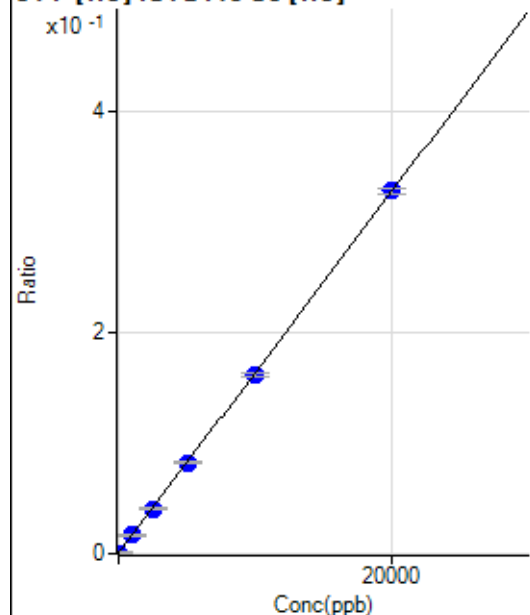
$$DL = 0.1756$$

$$BEC = 5.815$$

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	-16.064	35.56	0.0003	P	59.9
2	☐	0.000	16.064	96.67	0.0008	P	14.3
3	☐	1000.000	987.259	1929.04	0.0167	P	4.0
4	☐	2500.000	2462.171	4783.05	0.0408	P	3.0
5	☐	5000.000	5013.282	9923.46	0.0825	P	3.8
6	☐	10000.000	9893.347	19936.02	0.1623	P	2.2
7	☐	20000.000	20055.372	40615.60	0.3284	P	1.5
8	☐			38.89	0.0004	P	49.7

$$y = 1.6347E-005 * x + 5.6654E-004$$

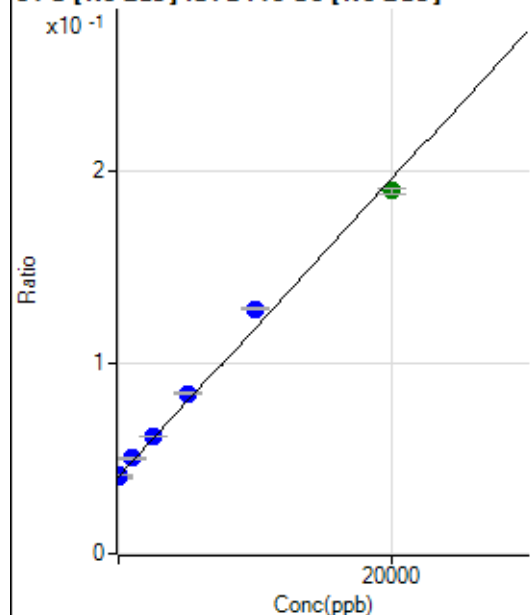
$$R = 1.0000$$

$$DL = 27.59$$

$$BEC = 34.66$$

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	-47.305	288087.22	0.0401	P	1.5
2	☐	0.000	47.305	292532.51	0.0408	P	0.0
3	☐	1000.000	1227.707	350702.49	0.0500	P	2.2
4	☐	2500.000	2645.206	438898.78	0.0611	P	0.4
5	☐	5000.000	5588.716	606269.08	0.0840	P	1.7
6	☐	10000.000	11260.122	950904.10	0.1282	P	0.5
7	☐	20000.000	19193.224	1414031.70	0.1900	A	1.8
8	☐			251018.18	0.0410	P	0.9

$$y = 7.7930E-006 * x + 0.0405$$

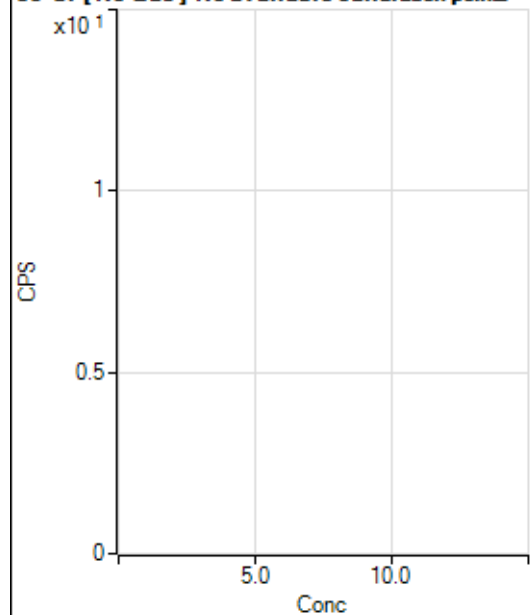
R = 0.9964

DL = 119.7

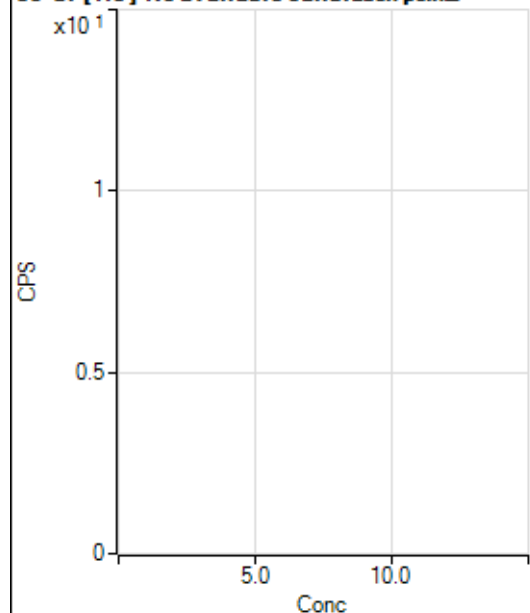
BEC = 5192

Weight: <None>

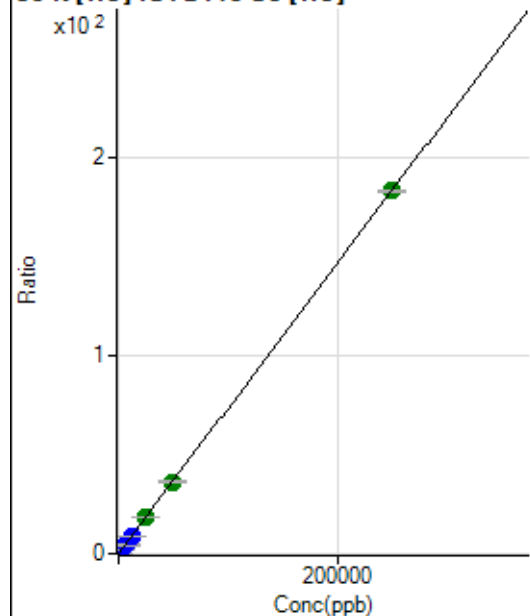
Min Conc: 0

35 Cl [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			158954.84		P	3.5
2	☐			160264.91		P	4.2
3	☐			158618.85		P	3.9
4	☐			156615.28		P	4.1
5	☐			152486.08		P	3.0
6	☐			138551.24		P	2.6
7	☐			118046.39		P	1.7
8	☐			75564.71		P	3.5

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			635.58		P	17.4
2	☐			600.02		P	3.6
3	☐			587.79		P	6.6
4	☐			603.35		P	8.9
5	☐			598.91		P	5.6
6	☐			487.79		P	7.5
7	☐			443.34		P	0.8
8	☐			267.78		P	19.1

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	5119.85	0.0438	P	2.7
2	☐	500.000	508.104	48489.94	0.4163	P	2.3
3	☐	2500.000	2400.307	208235.59	1.8036	P	0.9
4	☐	6250.000	5946.881	516065.17	4.4038	P	1.9
5	☐	12500.000	11843.901	1049755.25	8.7272	P	1.2
6	☐	25000.000	24732.879	2232518.63	18.1767	A	1.0
7	☐	50000.000	49493.193	4493038.51	36.3298	A	0.8
8	☐	250000.00	250169.43	17279385.57	183.4556	A	0.7

$$y = 7.3315E-004 * x + 0.0438$$

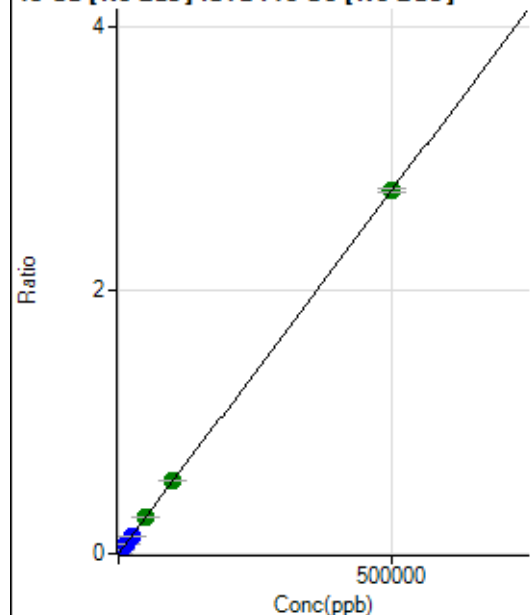
$$R = 1.0000$$

$$DL = 4.808$$

$$BEC = 59.77$$

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	380.01	0.0001	P	9.7
2	☐	500.000	543.471	21848.87	0.0030	P	1.0
3	☐	5000.000	4995.386	193458.90	0.0276	P	1.9
4	☐	12500.000	12086.782	479288.19	0.0667	P	0.9
5	☐	25000.000	24534.337	976583.31	0.1353	P	2.1
6	☐	50000.000	49794.573	2036537.76	0.2746	A	1.0
7	☐	100000.00	100766.61	4134419.83	0.5556	A	0.3
8	☐	500000.00	499900.83	16891269.33	2.7562	A	1.2

$$y = 5.5135\text{E-}006 * x + 5.2874\text{E-}005$$

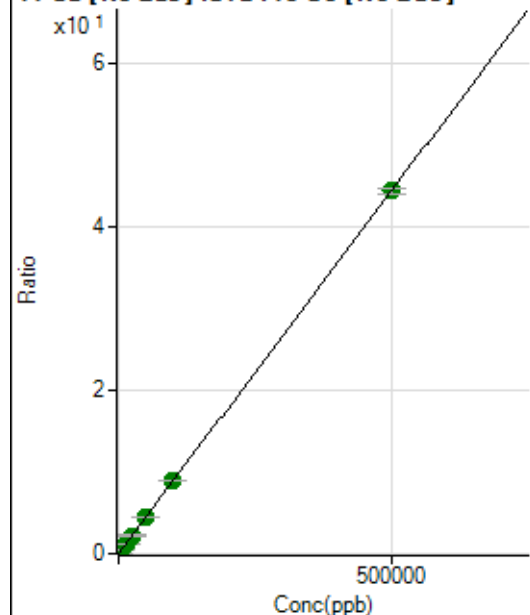
$$R = 1.0000$$

$$DL = 2.798$$

$$BEC = 9.59$$

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	6697.18	0.0009	P	1.7
2	☐	500.000	545.797	353978.89	0.0494	P	0.8
3	☐	5000.000	5061.768	3157907.49	0.4505	A	2.1
4	☐	12500.000	12257.053	7829363.49	1.0895	A	1.6
5	☐	25000.000	24883.499	15953623.79	2.2108	A	2.7
6	☐	50000.000	49271.631	32461967.30	4.3767	A	0.1
7	☐	100000.00	100635.56	66508555.12	8.9382	A	0.7
8	☐	500000.00	499956.95	272147587.0	44.4012	A	1.3

$$y = 8.8808\text{E-}005 * x + 9.3178\text{E-}004$$

$$R = 1.0000$$

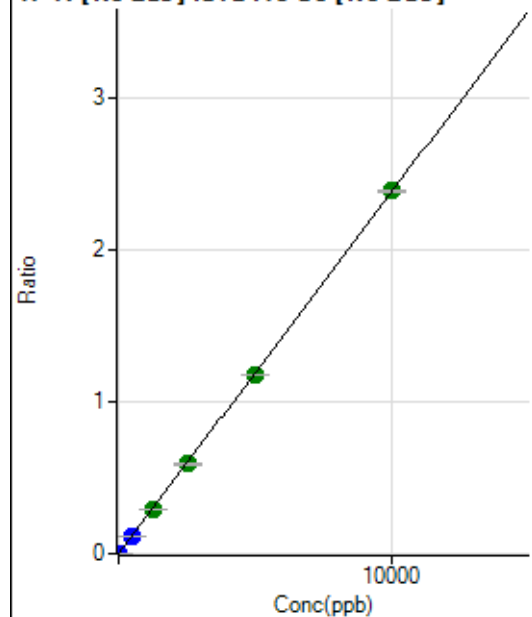
$$DL = 0.5242$$

$$BEC = 10.49$$

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	114.45	0.0000	P	2.5
2	☐	5.000	5.090	8779.43	0.0012	P	1.3
3	☐	500.000	491.889	819473.68	0.1169	P	1.2
4	☐	1250.000	1236.988	2112120.85	0.2939	A	0.2
5	☐	2500.000	2484.874	4260202.61	0.5904	A	2.5
6	☐	5000.000	4943.534	8711307.86	1.1745	A	0.4
7	☐	10000.000	10034.046	17738660.15	2.3839	A	0.9
8	☐			4372.94	0.0007	P	4.1

$$y = 2.3758\text{E-}004 * x + 1.5927\text{E-}005$$

$$R = 1.0000$$

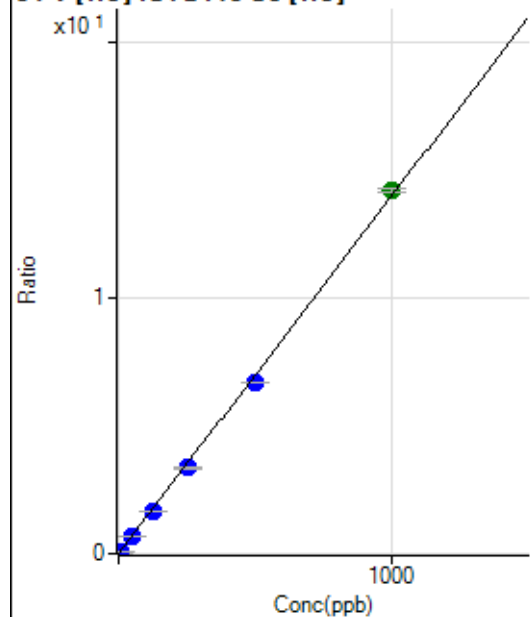
$$DL = 0.005019$$

$$BEC = 0.06704$$

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	3.33	0.0000	P	99.8
2	☐	5.000	4.936	8037.88	0.0690	P	0.7
3	☐	50.000	48.153	77689.02	0.6729	P	1.9
4	☐	125.000	119.899	196338.93	1.6755	P	1.9
5	☐	250.000	239.789	402998.86	3.3508	P	2.1
6	☐	500.000	476.798	818361.26	6.6627	P	0.3
7	☐	1000.000	1014.884	1753883.29	14.1818	A	1.2
8	☐			302.23	0.0032	P	13.9

$$y = 0.0140 * x + 2.8554\text{E-}005$$

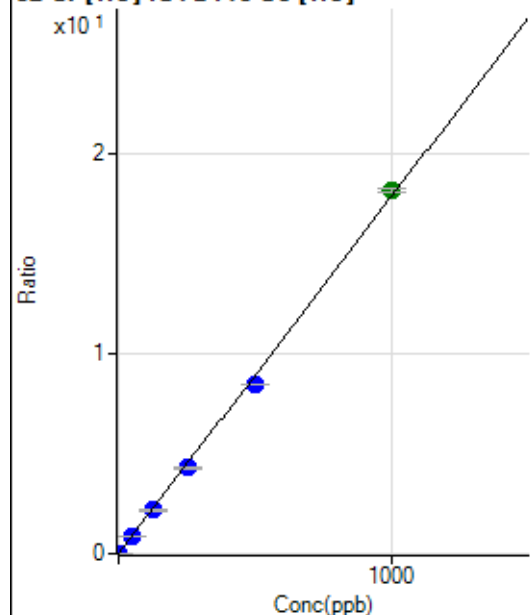
$$R = 0.9995$$

$$DL = 0.006121$$

$$BEC = 0.002043$$

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	574.46	0.0049	P	3.4
2	☐	2.000	2.020	4770.85	0.0410	P	5.8
3	☐	50.000	49.383	102347.86	0.8865	P	1.5
4	☐	125.000	120.965	253642.56	2.1644	P	1.6
5	☐	250.000	241.374	518835.12	4.3139	P	2.1
6	☐	500.000	473.579	1039010.51	8.4592	P	0.5
7	☐	1000.000	1015.902	2243529.70	18.1407	A	1.0
8	☐			3017.87	0.0320	P	19.2

$$y = 0.0179 * x + 0.0049$$

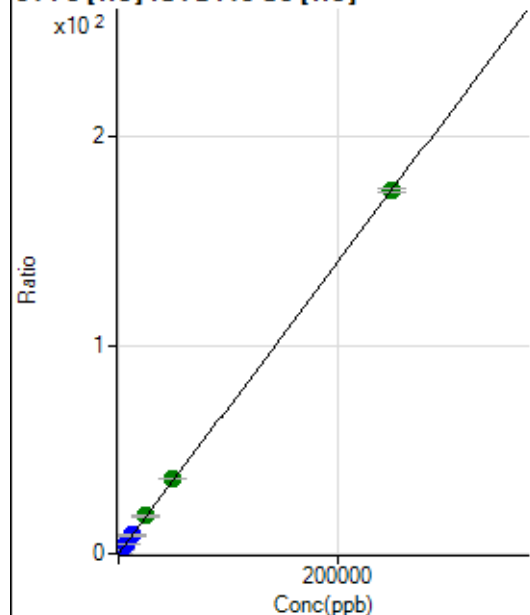
$$R = 0.9994$$

$$DL = 0.02785$$

$$BEC = 0.2754$$

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	448.90	0.0038	P	2.0
2	☐	50.000	55.959	4992.04	0.0428	P	1.1
3	☐	2500.000	2596.960	209444.28	1.8141	P	1.1
4	☐	6250.000	6354.555	519548.79	4.4334	P	1.6
5	☐	12500.000	12599.354	1056890.72	8.7864	P	1.1
6	☐	25000.000	25934.017	2220747.59	18.0815	A	2.0
7	☐	50000.000	51590.149	4447950.39	35.9654	A	0.3
8	☐	250000.00	249580.01	16387250.04	173.9767	A	1.1

$$y = 6.9706E-004 * x + 0.0038$$

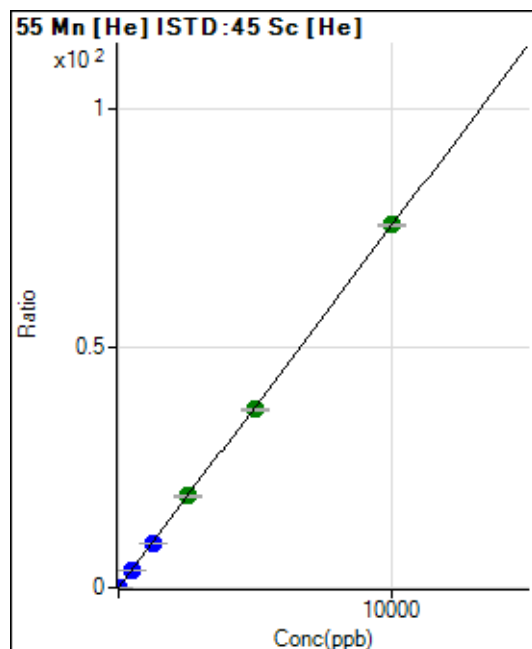
$$R = 1.0000$$

$$DL = 0.3271$$

$$BEC = 5.513$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	242.23	0.0021	P	8.6
2	☐	1.000	1.097	1206.73	0.0104	P	5.2
3	☐	500.000	495.452	432320.85	3.7445	P	1.2
4	☐	1250.000	1216.165	1076786.31	9.1885	P	1.6
5	☐	2500.000	2545.590	2312959.41	19.2305	A	1.9
6	☐	5000.000	4935.000	4578664.66	37.2793	A	1.3
7	☐	10000.000	10025.559	9365994.17	75.7315	A	0.6
8	☐			3129.26	0.0332	P	3.8

$$y = 0.0076 * x + 0.0021$$

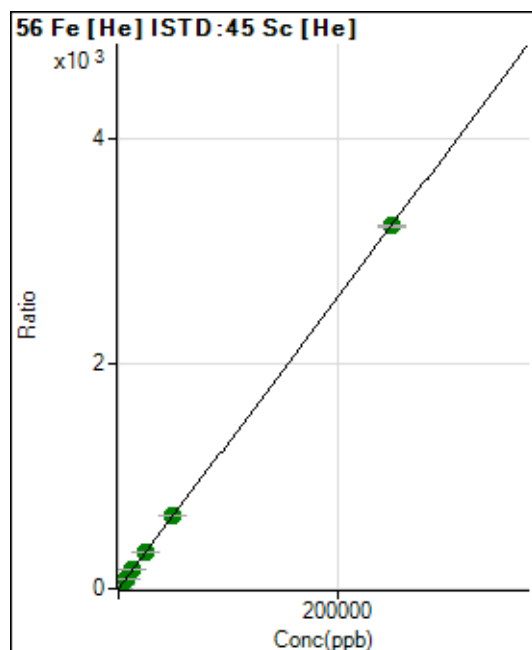
$$R = 1.0000$$

$$DL = 0.07065$$

$$BEC = 0.2745$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	6354.80	0.0544	P	2.5
2	☐	50.000	55.030	89200.68	0.7659	P	2.4
3	☐	2500.000	2658.250	3974263.52	34.4232	A	1.3
4	☐	6250.000	6421.909	9736197.84	83.0841	A	1.9
5	☐	12500.000	12774.241	19871843.45	165.2141	A	1.8
6	☐	25000.000	25090.024	39848531.91	324.4464	A	1.4
7	☐	50000.000	50687.469	81055532.68	655.3990	A	0.6
8	☐	250000.00	249833.91	304255866.5	3,230.188	A	0.7

$$y = 0.0129 * x + 0.0544$$

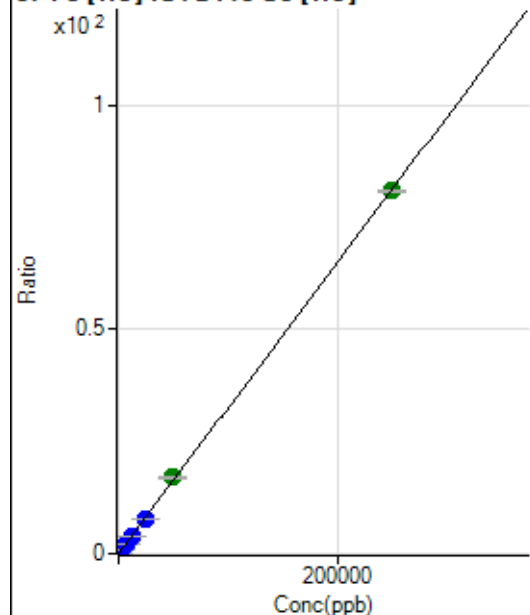
$$R = 1.0000$$

$$DL = 0.3189$$

$$BEC = 4.207$$

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	178.89	0.0015	P	12.3
2	☐	50.000	54.579	2241.32	0.0192	P	1.8
3	☐	2500.000	2572.024	96505.65	0.8359	P	1.6
4	☐	6250.000	6266.213	238379.47	2.0343	P	2.1
5	☐	12500.000	12421.845	484878.43	4.0311	P	1.4
6	☐	25000.000	24382.050	971681.59	7.9110	P	0.5
7	☐	50000.000	52316.616	2099093.96	16.9729	A	0.5
8	☐	250000.00	249601.25	7626838.29	80.9715	A	0.9

$$y = 3.2440\text{E-}004 * x + 0.0015$$

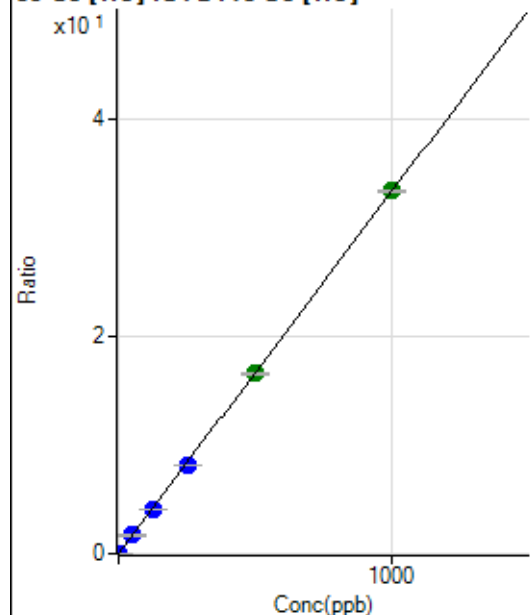
$$R = 0.9999$$

$$DL = 1.739$$

$$BEC = 4.719$$

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	175.56	0.0015	P	4.3
2	☐	1.000	1.082	4377.38	0.0376	P	2.5
3	☐	50.000	50.569	194808.53	1.6873	P	1.4
4	☐	125.000	123.321	481990.03	4.1127	P	1.2
5	☐	250.000	243.456	976436.80	8.1177	P	1.3
6	☐	500.000	498.849	2042853.55	16.6319	A	1.1
7	☐	1000.000	1002.393	4133026.74	33.4189	A	0.4
8	☐			6354.81	0.0675	P	1.5

$$y = 0.0333 * x + 0.0015$$

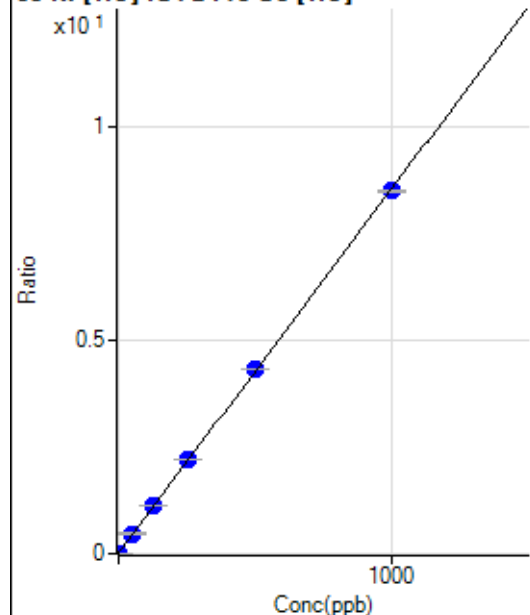
$$R = 1.0000$$

$$DL = 0.005873$$

$$BEC = 0.04508$$

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	882.26	0.0076	P	8.4
2	☐	1.000	1.122	1996.83	0.0171	P	0.4
3	☐	50.000	54.429	54588.47	0.4728	P	1.2
4	☐	125.000	130.709	131818.99	1.1249	P	1.9
5	☐	250.000	257.904	266081.22	2.2121	P	1.5
6	☐	500.000	504.210	530317.57	4.3176	P	0.3
7	☐	1000.000	994.984	1052807.59	8.5128	P	0.6
8	☐			2396.89	0.0254	P	2.0

$$y = 0.0085 * x + 0.0076$$

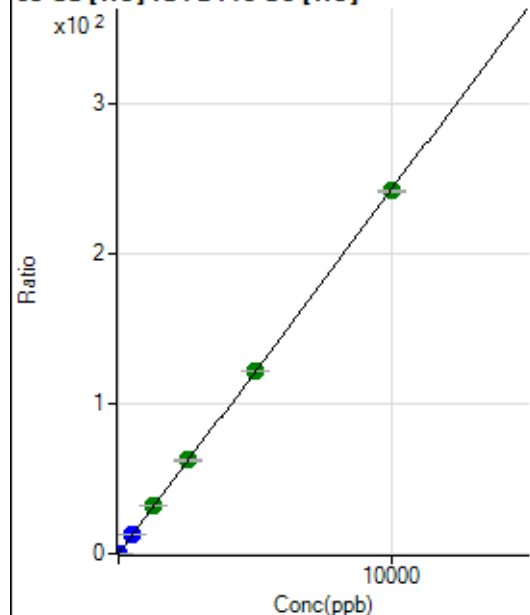
$$R = 0.9999$$

$$DL = 0.2218$$

$$BEC = 0.8836$$

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	3039.25	0.0260	P	1.2
2	☐	2.000	2.238	9349.82	0.0803	P	2.4
3	☐	500.000	523.042	1467448.88	12.7102	P	1.0
4	☐	1250.000	1321.995	3759668.28	32.0855	A	2.4
5	☐	2500.000	2574.951	7512826.55	62.4707	A	2.6
6	☐	5000.000	5018.008	14949860.75	121.7168	A	0.9
7	☐	10000.000	9962.107	29881079.00	241.6152	A	0.6
8	☐			5375.51	0.0571	P	3.5

$$y = 0.0243 * x + 0.0260$$

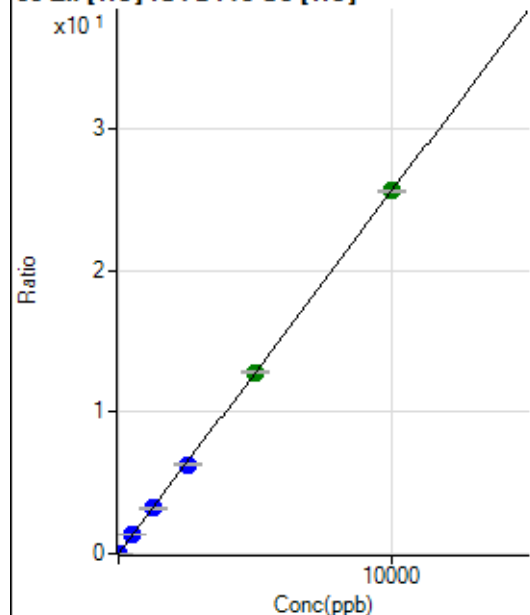
$$R = 1.0000$$

$$DL = 0.03729$$

$$BEC = 1.073$$

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	178.89	0.0015	P	4.4
2	☐	2.000	6.457	2103.51	0.0181	P	2.6
3	☐	500.000	510.813	151119.61	1.3089	P	1.1
4	☐	1250.000	1251.218	375455.00	3.2039	P	1.8
5	☐	2500.000	2463.089	758419.07	6.3056	P	1.7
6	☐	5000.000	4997.216	1571100.79	12.7915	A	1.0
7	☐	10000.000	10009.926	3168649.64	25.6212	A	0.6
8	☐			867.82	0.0092	P	5.8

$$y = 0.0026 * x + 0.0015$$

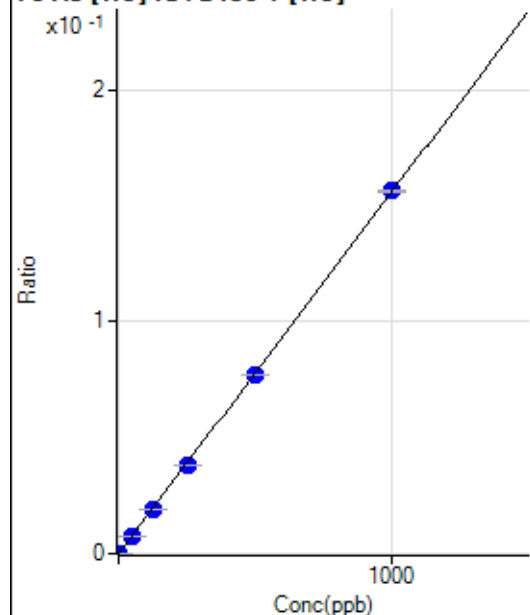
$$R = 1.0000$$

$$DL = 0.0785$$

$$BEC = 0.5982$$

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	100.4
2	☐	1.000	1.121	203.34	0.0002	P	6.4
3	☐	50.000	48.177	8468.17	0.0075	P	1.1
4	☐	125.000	121.740	21640.00	0.0190	P	1.4
5	☐	250.000	244.787	44391.86	0.0381	P	0.2
6	☐	500.000	495.727	90913.84	0.0773	P	0.4
7	☐	1000.000	1003.938	183710.74	0.1564	P	0.6
8	☐			77.78	0.0001	P	15.6

$$y = 1.5583E-004 * x + 2.9392E-006$$

$$R = 1.0000$$

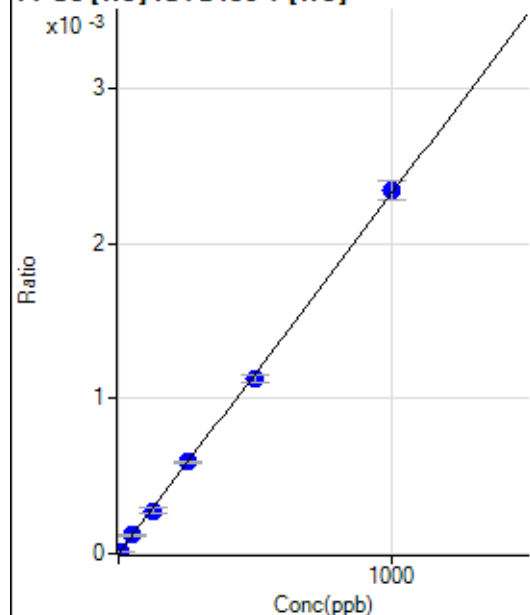
$$DL = 0.05679$$

$$BEC = 0.01886$$

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	3.757	10.00	0.0000	P	33.4
3	☐	50.000	51.730	135.56	0.0001	P	13.9
4	☐	125.000	118.924	315.56	0.0003	P	14.9
5	☐	250.000	255.154	690.03	0.0006	P	2.9
6	☐	500.000	483.959	1323.41	0.0011	P	4.5
7	☐	1000.000	1007.411	2749.19	0.0023	P	5.1
8	☐			0.00	0.0000	P	

$$y = 2.3239\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9998$$

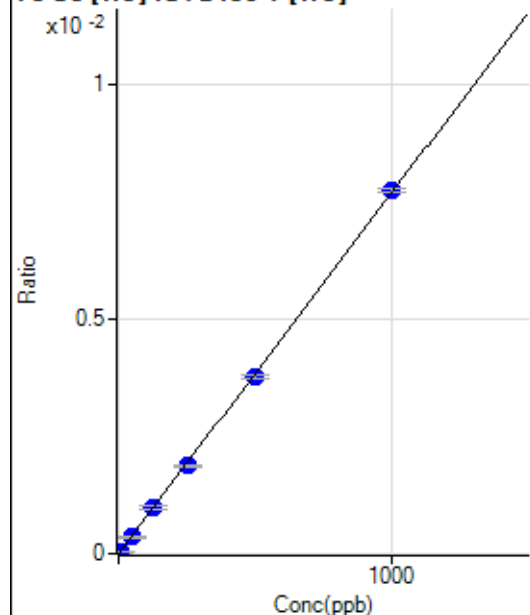
$$DL = 0$$

$$BEC = 0$$

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	4.44	0.0000	P	44.1
2	☐	5.000	4.405	43.33	0.0000	P	26.4
3	☐	50.000	46.747	410.01	0.0004	P	8.9
4	☐	125.000	126.442	1114.50	0.0010	P	8.2
5	☐	250.000	243.173	2182.41	0.0019	P	1.3
6	☐	500.000	491.969	4460.75	0.0038	P	2.0
7	☐	1000.000	1005.708	9094.12	0.0077	P	1.1
8	☐			2.22	0.0000	P	86.6

$$y = 7.6966\text{E-}006 * x + 3.9079\text{E-}006$$

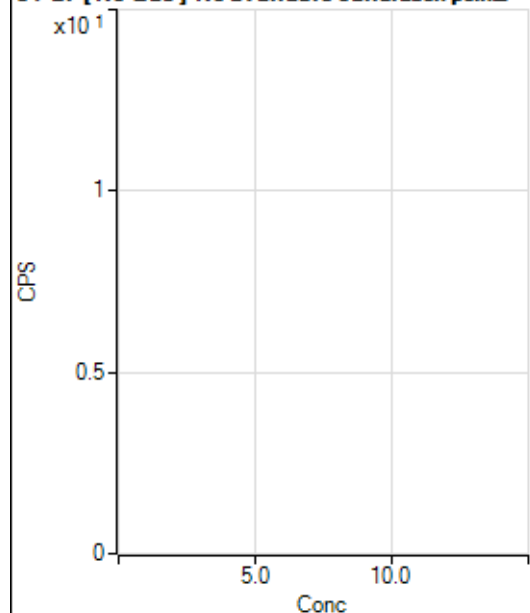
$$R = 0.9999$$

$$DL = 0.6725$$

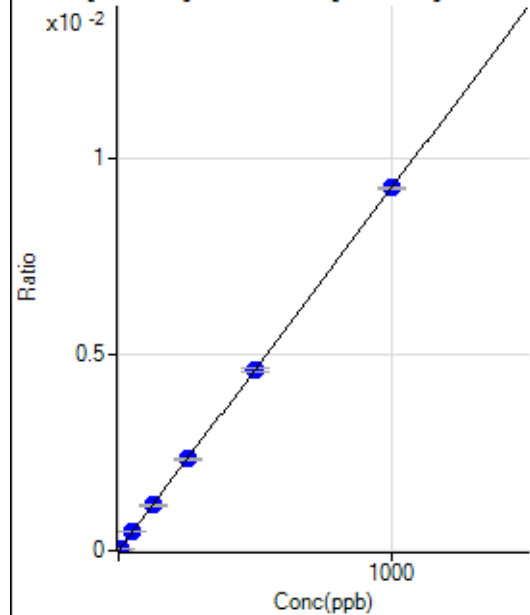
$$BEC = 0.5077$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			5772.36		P	2.7
2	☐			5573.39		P	1.3
3	☐			5677.88		P	1.6
4	☐			5620.07		P	0.8
5	☐			5835.74		P	3.5
6	☐			5964.66		P	1.6
7	☐			6142.52		P	3.2
8	☐			5775.70		P	1.8

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	-262804.
2	☐	5.000	5.303	865.60	0.0000	P	6.1
3	☐	50.000	51.685	8320.42	0.0005	P	2.5
4	☐	125.000	124.710	20481.94	0.0012	P	1.2
5	☐	250.000	252.166	41693.25	0.0023	P	1.9
6	☐	500.000	498.065	83267.16	0.0046	P	1.9
7	☐	1000.000	1000.376	168750.35	0.0092	P	0.7
8	☐			48.89	0.0000	P	122.1

$$y = 9.2425\text{E-}006 * x - 1.1697\text{E-}009$$

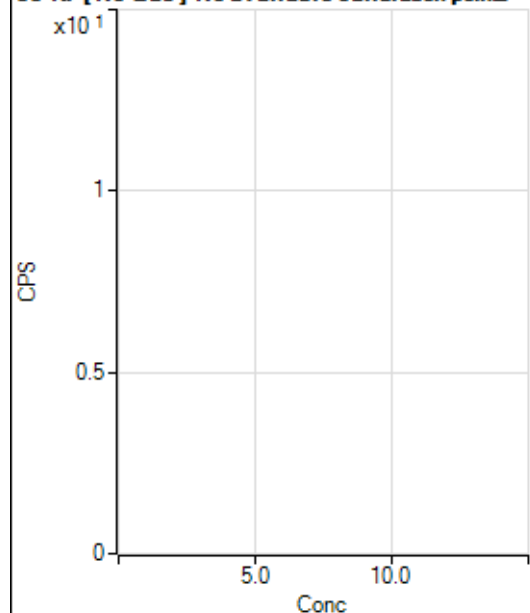
$$R = 1.0000$$

$$DL = 0.9978$$

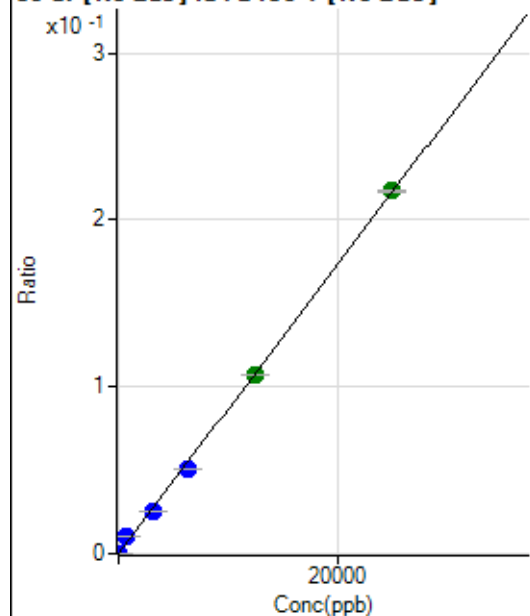
$$BEC = -0.0001266$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			141.11		P	17.7
2	☐			174.45		P	1.1
3	☐			161.11		P	19.6
4	☐			157.78		P	8.5
5	☐			147.78		P	20.5
6	☐			176.67		P	19.9
7	☐			198.89		P	5.9
8	☐			182.23		P	13.8

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	270.01	0.0000	P	5.2
2	☐	1.000	24.177	3959.48	0.0002	P	3.9
3	☐	625.000	1202.626	181442.97	0.0104	P	1.8
4	☐	3125.000	2921.970	449306.20	0.0253	P	1.2
5	☐	6250.000	5893.781	912327.73	0.0510	P	0.8
6	☐	12500.000	12411.291	1941886.65	0.1074	A	0.7
7	☐	25000.000	25144.346	3969275.49	0.2175	A	0.7
8	☐			10047.05	0.0007	P	1.8

$$y = 8.6487\text{E-}006 * x + 1.5112\text{E-}005$$

$$R = 0.9995$$

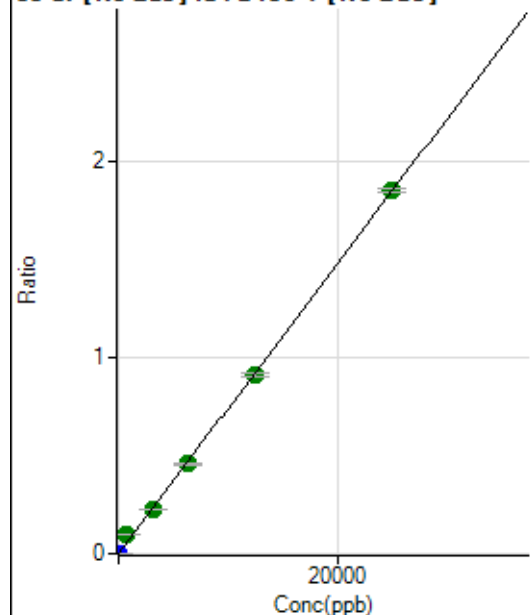
$$DL = 0.2704$$

$$BEC = 1.747$$

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	645.58	0.0000	P	12.3
2	☐	1.000	24.468	32576.87	0.0018	P	1.2
3	☐	625.000	1272.713	1639360.29	0.0941	A	0.8
4	☐	3125.000	3088.859	4057749.25	0.2283	A	0.3
5	☐	6250.000	6202.136	8202424.26	0.4584	A	1.4
6	☐	12500.000	12349.996	16511454.89	0.9128	A	1.3
7	☐	25000.000	25075.292	33825817.55	1.8534	A	1.1
8	☐			85164.25	0.0056	P	1.0

$$y = 7.3911\text{E-}005 * x + 3.6123\text{E-}005$$

$$R = 0.9996$$

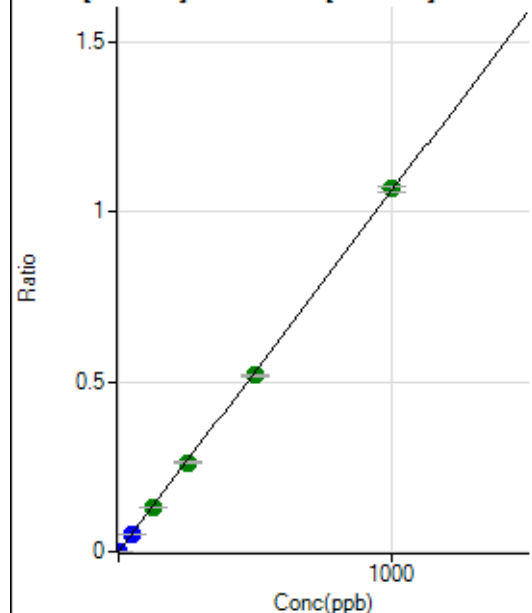
$$DL = 0.1802$$

$$BEC = 0.4887$$

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	614.46	0.0000	P	4.3
2	☐	1.000	0.994	19233.35	0.0011	P	1.0
3	☐	50.000	47.558	879085.09	0.0505	P	1.5
4	☐	125.000	121.803	2295535.02	0.1292	A	1.7
5	☐	250.000	247.005	4687176.25	0.2620	A	1.0
6	☐	500.000	489.179	9383738.61	0.5188	A	0.5
7	☐	1000.000	1006.681	19483484.71	1.0675	A	1.5
8	☐			9015.23	0.0006	P	2.1

$$y = 0.0011 * x + 3.4398\text{E-}005$$

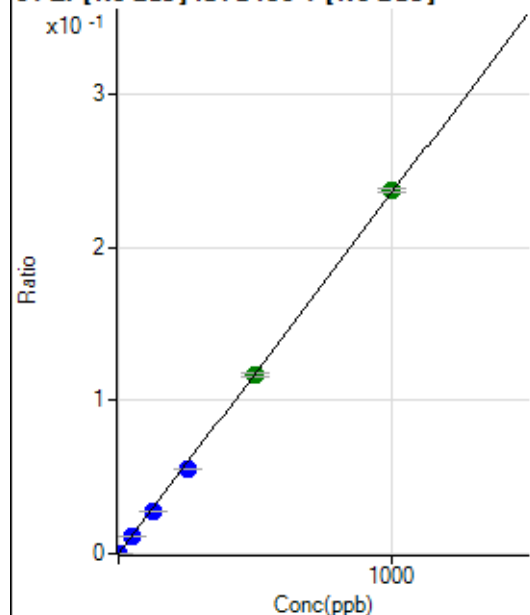
$$R = 0.9999$$

$$DL = 0.004227$$

$$BEC = 0.03244$$

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	120.00	0.0000	P	14.4
2	☐	1.000	0.985	4205.12	0.0002	P	1.4
3	☐	50.000	47.621	195084.65	0.0112	P	1.1
4	☐	125.000	116.147	485158.63	0.0273	P	0.9
5	☐	250.000	235.375	989865.03	0.0553	P	1.0
6	☐	500.000	496.375	2110320.06	0.1167	A	1.1
7	☐	1000.000	1006.694	4318275.94	0.2366	A	1.0
8	☐			2054.62	0.0001	P	5.8

$$y = 2.3502\text{E-}004 * x + 6.7197\text{E-}006$$

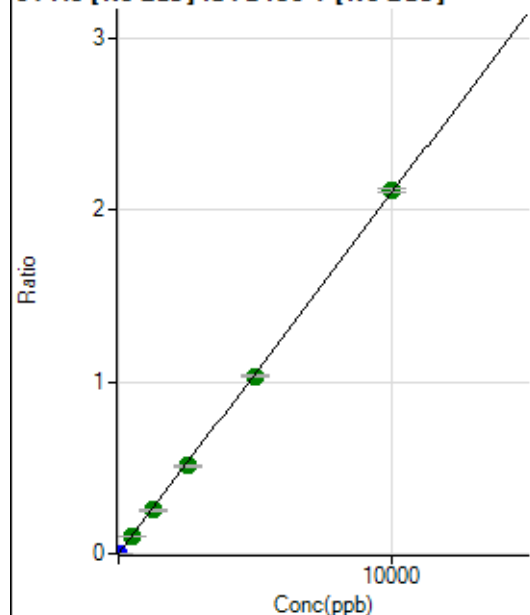
$$R = 0.9999$$

$$DL = 0.01232$$

$$BEC = 0.02859$$

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	304.45	0.0000	P	9.8
2	☐	5.000	5.900	22191.14	0.0013	P	1.3
3	☐	500.000	497.875	1822039.43	0.1046	A	2.6
4	☐	1250.000	1210.776	4518680.56	0.2543	A	2.3
5	☐	2500.000	2440.708	9173159.24	0.5127	A	1.5
6	☐	5000.000	4927.225	18721556.11	1.0350	A	0.2
7	☐	10000.000	10056.219	38553006.09	2.1124	A	1.1
8	☐			8060.21	0.0005	P	5.6

$$y = 2.1006\text{E-}004 * x + 1.7047\text{E-}005$$

$$R = 0.9999$$

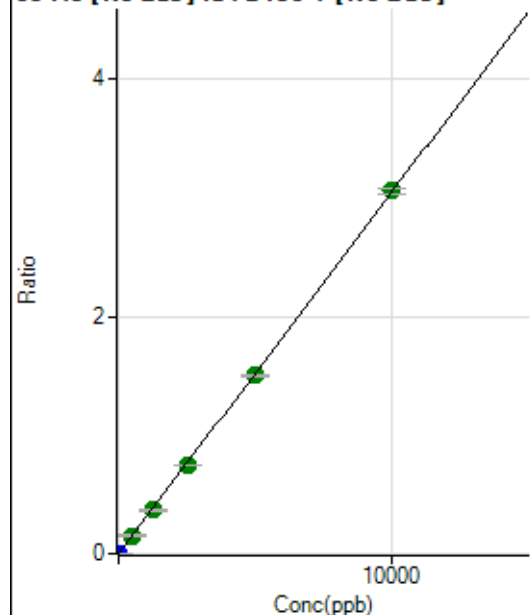
$$DL = 0.02395$$

$$BEC = 0.08115$$

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	264.45	0.0000	P	13.9
2	☐	5.000	4.987	27058.61	0.0015	P	0.6
3	☐	500.000	502.760	2664760.27	0.1530	A	1.8
4	☐	1250.000	1202.810	6502623.72	0.3660	A	1.2
5	☐	2500.000	2451.123	13343393.41	0.7458	A	0.7
6	☐	5000.000	4935.355	27160997.09	1.5016	A	0.6
7	☐	10000.000	10050.302	55806680.28	3.0578	A	1.5
8	☐			7523.22	0.0005	P	2.9

$$y = 3.0425\text{E-}004 * x + 1.4801\text{E-}005$$

$$R = 0.9999$$

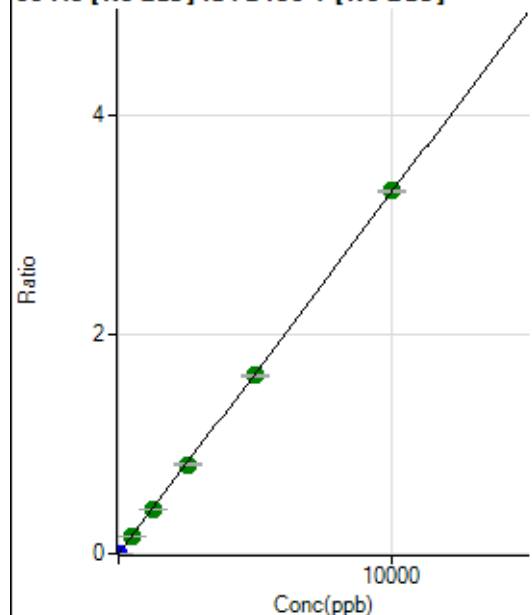
$$DL = 0.02028$$

$$BEC = 0.04865$$

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	347.78	0.0000	P	17.3
2	☐	5.000	5.097	29970.13	0.0017	P	1.3
3	☐	500.000	502.948	2884115.31	0.1656	A	0.9
4	☐	1250.000	1211.764	7086875.87	0.3988	A	1.3
5	☐	2500.000	2472.907	14563757.84	0.8139	A	0.6
6	☐	5000.000	4926.836	29332097.62	1.6216	A	0.5
7	☐	10000.000	10047.987	60358758.55	3.3071	A	0.9
8	☐			11563.80	0.0008	P	1.9

$$y = 3.2913\text{E-}004 * x + 1.9455\text{E-}005$$

$$R = 1.0000$$

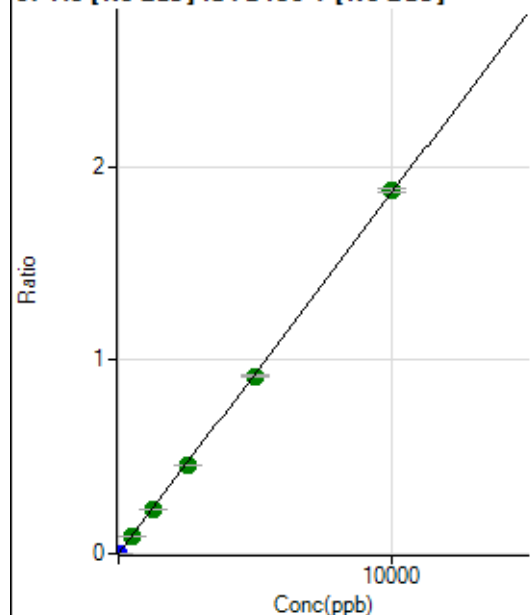
$$DL = 0.03061$$

$$BEC = 0.05911$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	138.89	0.0000	P	15.9
2	☐	5.000	5.064	16825.85	0.0010	P	1.2
3	☐	500.000	496.940	1615537.17	0.0927	A	1.0
4	☐	1250.000	1219.823	4044296.26	0.2276	A	1.7
5	☐	2500.000	2449.485	8177886.34	0.4571	A	0.8
6	☐	5000.000	4923.479	16618453.23	0.9187	A	0.4
7	☐	10000.000	10054.814	34243555.60	1.8763	A	1.1
8	☐			3932.82	0.0003	P	7.1

$$y = 1.8660\text{E-}004 * x + 7.7703\text{E-}006$$

$$R = 0.9999$$

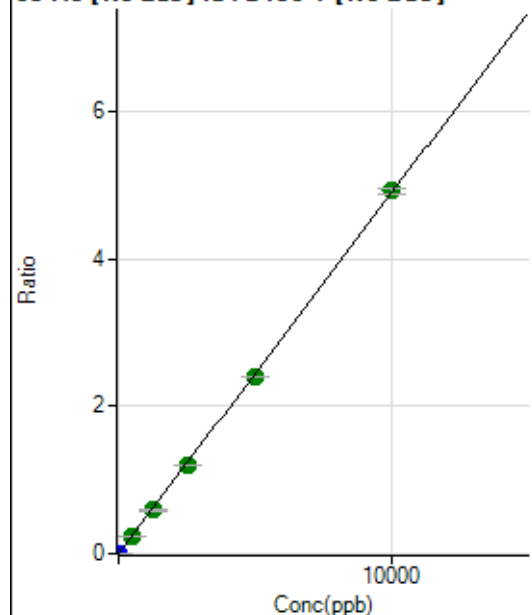
$$DL = 0.01986$$

$$BEC = 0.04164$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	347.78	0.0000	P	1.9
2	☐	5.000	5.028	43798.88	0.0025	P	2.4
3	☐	500.000	498.226	4247575.60	0.2438	A	1.7
4	☐	1250.000	1208.126	10504159.77	0.5913	A	2.4
5	☐	2500.000	2451.876	21468590.51	1.1999	A	0.8
6	☐	5000.000	4913.803	43498910.46	2.4048	A	0.4
7	☐	10000.000	10060.452	89858604.21	4.9235	A	1.3
8	☐			9836.98	0.0006	P	4.4

$$y = 4.8939\text{E-}004 * x + 1.9468\text{E-}005$$

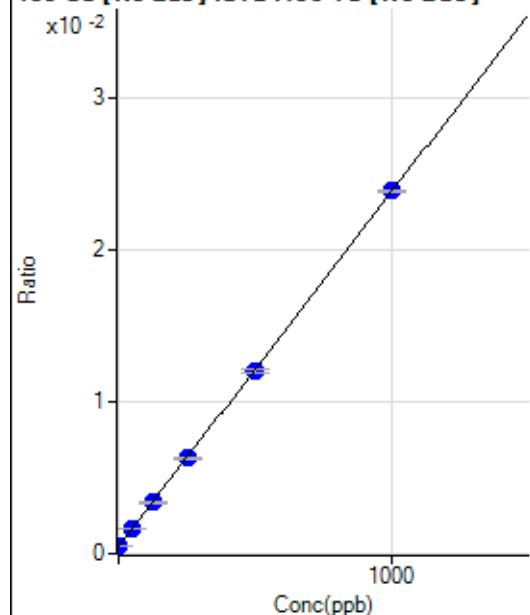
$$R = 0.9999$$

$$DL = 0.002323$$

$$BEC = 0.03978$$

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	5993.58	0.0005	P	2.4
2	☐	1.000	0.920	6235.91	0.0005	P	2.4
3	☐	50.000	51.600	20780.20	0.0017	P	0.5
4	☐	125.000	125.000	42559.98	0.0034	P	2.5
5	☐	250.000	248.528	79787.47	0.0063	P	1.8
6	☐	500.000	494.491	153950.47	0.0120	P	1.9
7	☐	1000.000	1003.043	306388.51	0.0239	P	0.9
8	☐			5195.48	0.0005	P	4.2

$$y = 2.3357\text{E-}005 * x + 4.7755\text{E-}004$$

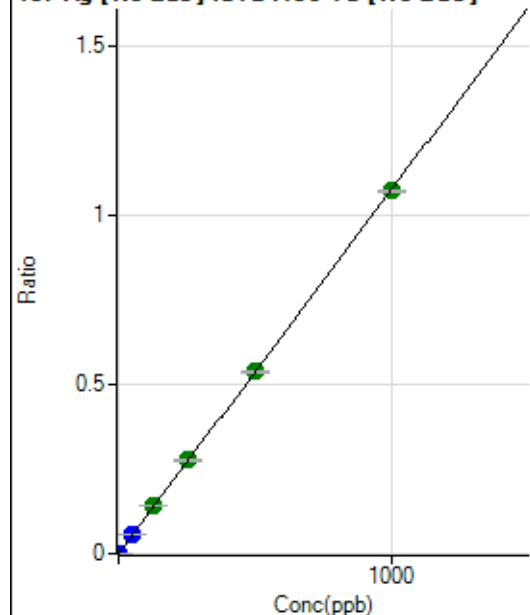
$$R = 1.0000$$

$$DL = 1.467$$

$$BEC = 20.45$$

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	135.56	0.0000	P	11.6
2	☐	1.000	0.992	13447.76	0.0011	P	1.4
3	☐	50.000	50.953	675818.00	0.0547	P	0.7
4	☐	125.000	130.709	1758497.11	0.1404	A	1.2
5	☐	250.000	258.274	3522559.01	0.2774	A	2.1
6	☐	500.000	501.225	6890358.64	0.5383	A	0.9
7	☐	1000.000	996.558	13716695.63	1.0702	A	0.7
8	☐			1581.22	0.0001	P	17.6

$$y = 0.0011 * x + 1.0802\text{E-}005$$

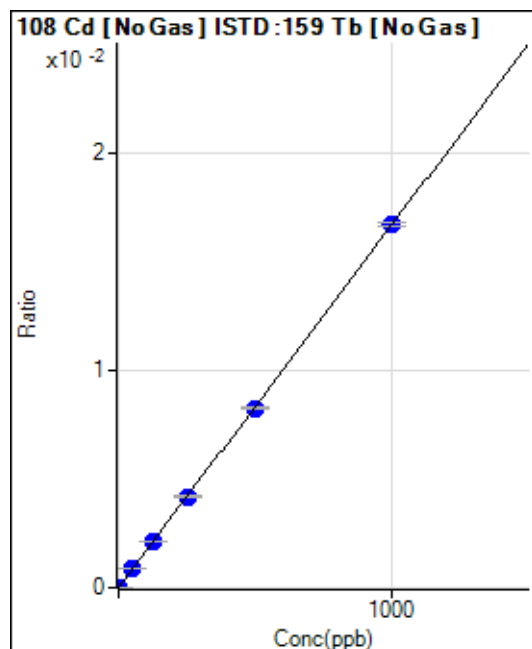
$$R = 1.0000$$

$$DL = 0.003512$$

$$BEC = 0.01006$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	31.11	0.0000	P	6.0
2	☐	1.000	1.176	275.56	0.0000	P	2.5
3	☐	50.000	53.505	11023.39	0.0009	P	0.8
4	☐	125.000	127.588	26621.30	0.0021	P	2.0
5	☐	250.000	250.880	53039.30	0.0042	P	2.7
6	☐	500.000	496.112	105694.56	0.0083	P	0.8
7	☐	1000.000	1001.225	213536.78	0.0167	P	1.0
8	☐			182.23	0.0000	P	9.9

$$y = 1.6638\text{E-}005 * x + 2.4787\text{E-}006$$

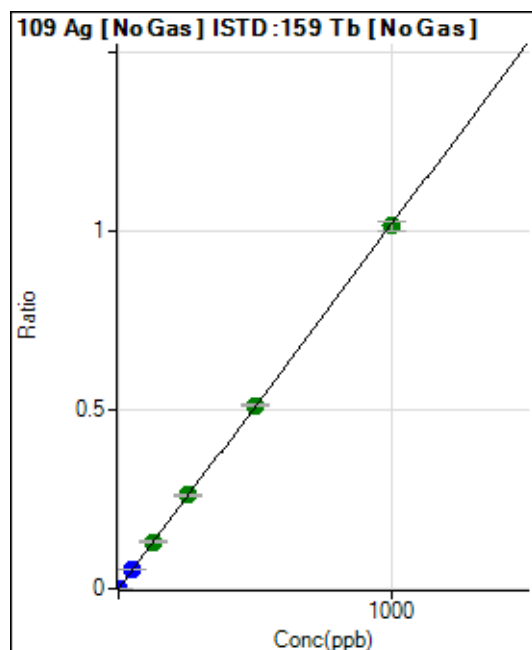
$$R = 1.0000$$

$$DL = 0.0269$$

$$BEC = 0.149$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	41.11	0.0000	P	47.7
2	☐	1.000	1.012	12920.61	0.0010	P	1.1
3	☐	50.000	51.331	645897.89	0.0523	P	0.8
4	☐	125.000	128.363	1638371.94	0.1308	A	2.1
5	☐	250.000	257.899	3337413.04	0.2628	A	1.7
6	☐	500.000	503.514	6567678.86	0.5130	A	0.5
7	☐	1000.000	995.781	13003483.28	1.0146	A	2.6
8	☐			5567.64	0.0005	P	131.3

$$y = 0.0010 * x + 3.2773\text{E-}006$$

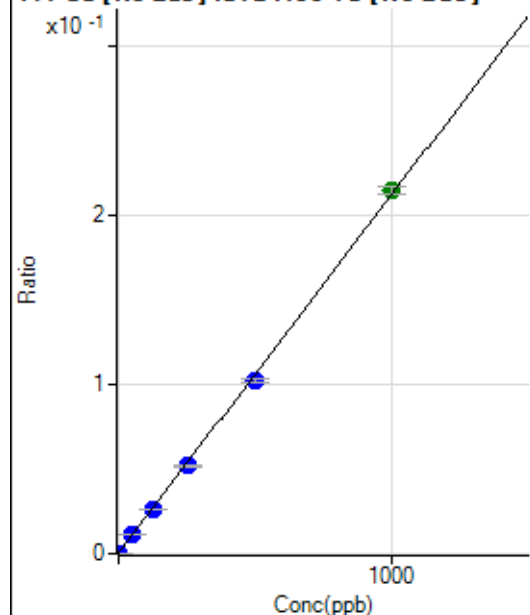
$$R = 1.0000$$

$$DL = 0.004602$$

$$BEC = 0.003216$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	4213.73	0.0003	P	2.0
2	☐	1.000	1.066	7019.24	0.0006	P	1.2
3	☐	50.000	50.956	137541.50	0.0111	P	1.4
4	☐	125.000	122.340	329133.33	0.0263	P	1.3
5	☐	250.000	244.449	662481.94	0.0522	P	1.7
6	☐	500.000	481.237	1310321.59	0.1024	P	1.7
7	☐	1000.000	1011.054	2751571.98	0.2147	A	2.2
8	☐			4108.18	0.0004	P	3.3

$$y = 2.1202\text{E-}004 * x + 3.3574\text{E-}004$$

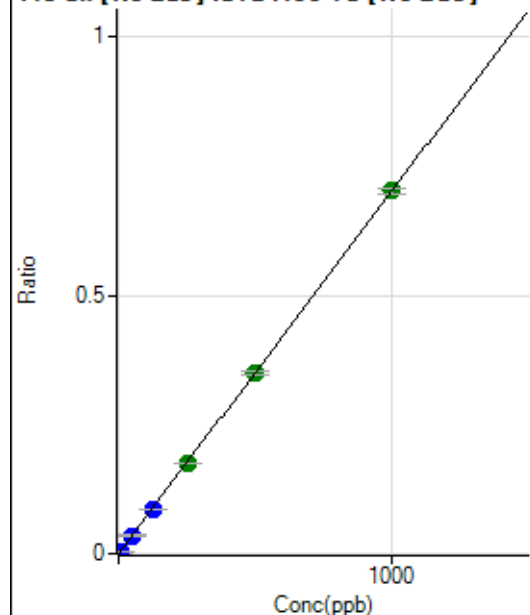
$$R = 0.9997$$

$$DL = 0.09382$$

$$BEC = 1.584$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	4659.73	0.0004	P	3.1
2	☐	5.000	5.068	49013.98	0.0039	P	0.6
3	☐	50.000	49.809	435514.62	0.0353	P	1.2
4	☐	125.000	121.182	1068234.68	0.0853	P	2.1
5	☐	250.000	249.586	2225695.89	0.1752	A	1.5
6	☐	500.000	497.645	4468014.86	0.3491	A	1.8
7	☐	1000.000	1001.768	9000895.56	0.7023	A	1.6
8	☐			2300.22	0.0002	P	9.8

$$y = 7.0067\text{E-}004 * x + 3.7130\text{E-}004$$

$$R = 1.0000$$

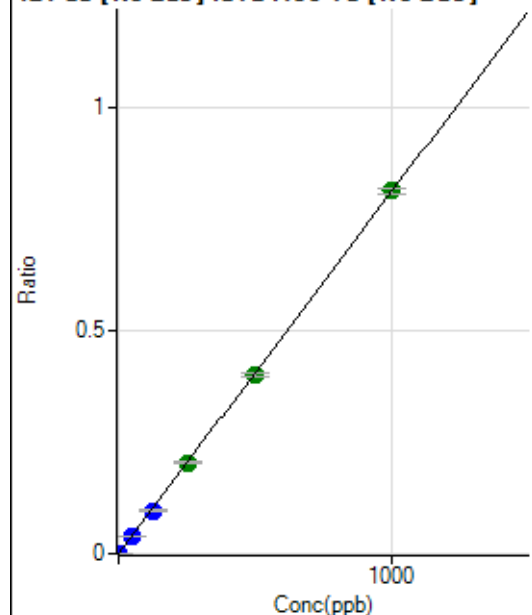
$$DL = 0.04924$$

$$BEC = 0.5299$$

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	84.44	0.0000	P	9.0
2	☐	2.000	2.017	20525.50	0.0016	P	0.4
3	☐	50.000	49.047	491238.09	0.0398	P	1.8
4	☐	125.000	119.562	1214781.76	0.0970	P	1.7
5	☐	250.000	250.830	2583716.16	0.2034	A	1.6
6	☐	500.000	495.088	5140060.17	0.4015	A	1.4
7	☐	1000.000	1002.976	10425937.42	0.8135	A	1.4
8	☐			3034.81	0.0003	P	8.1

$$y = 8.1105E-004 * x + 6.7278E-006$$

$$R = 1.0000$$

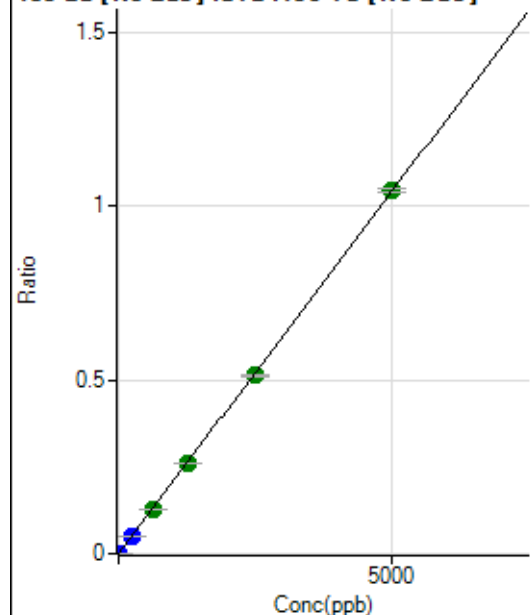
$$DL = 0.002227$$

$$BEC = 0.008295$$

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	113.33	0.0000	P	10.4
2	☐	10.000	10.178	26607.22	0.0021	P	0.8
3	☐	250.000	241.868	622239.41	0.0504	P	1.4
4	☐	625.000	616.775	1609485.17	0.1285	A	1.7
5	☐	1250.000	1250.266	3307827.00	0.2605	A	1.4
6	☐	2500.000	2470.298	6587269.76	0.5146	A	0.9
7	☐	5000.000	5016.219	13392673.97	1.0449	A	1.0
8	☐			5711.27	0.0005	P	6.7

$$y = 2.0831E-004 * x + 9.0292E-006$$

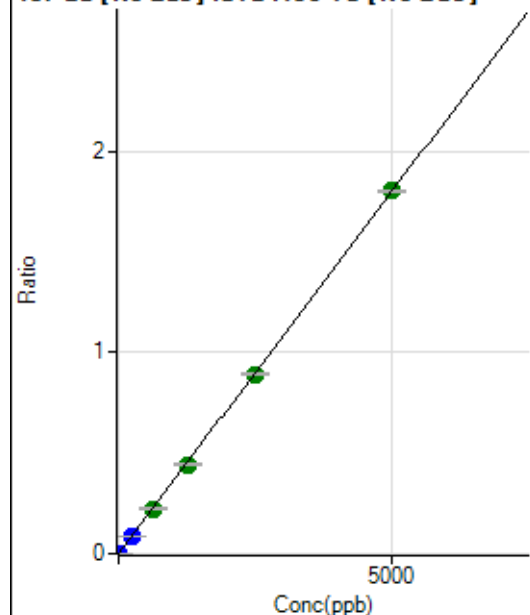
$$R = 1.0000$$

$$DL = 0.01355$$

$$BEC = 0.04335$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	188.89	0.0000	P	14.6
2	☐	10.000	10.262	46292.22	0.0037	P	1.3
3	☐	250.000	244.654	1086256.18	0.0880	P	1.4
4	☐	625.000	620.868	2795997.01	0.2232	A	2.8
5	☐	1250.000	1230.983	5620893.74	0.4426	A	1.5
6	☐	2500.000	2479.005	11409248.16	0.8913	A	1.3
7	☐	5000.000	5016.035	23114120.21	1.8034	A	0.8
8	☐			9691.35	0.0009	P	6.6

$$y = 3.5953E-004 * x + 1.5053E-005$$

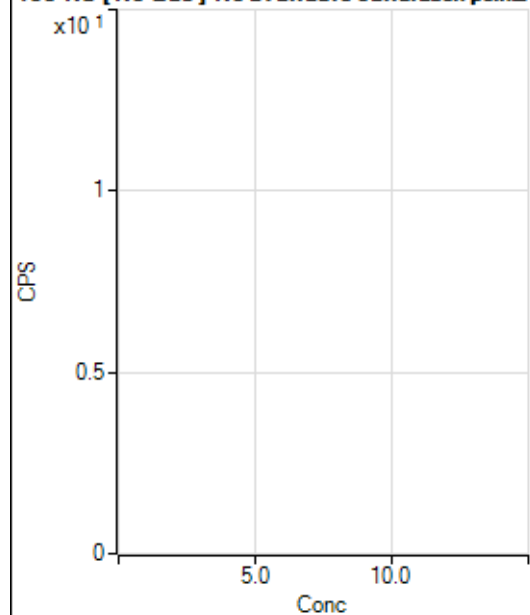
$$R = 1.0000$$

$$DL = 0.0183$$

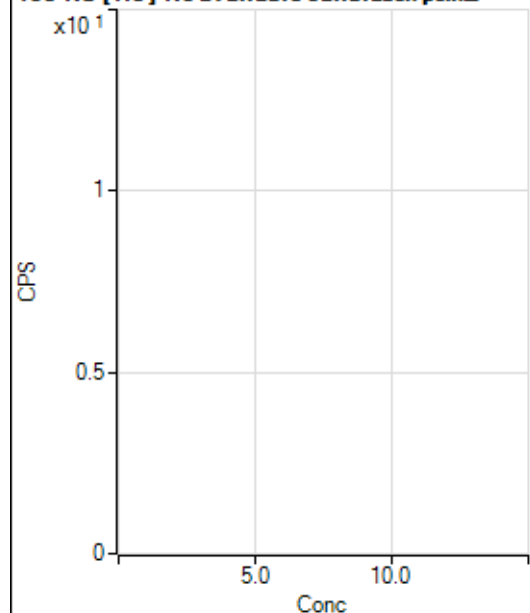
$$BEC = 0.04187$$

Weight: <None>

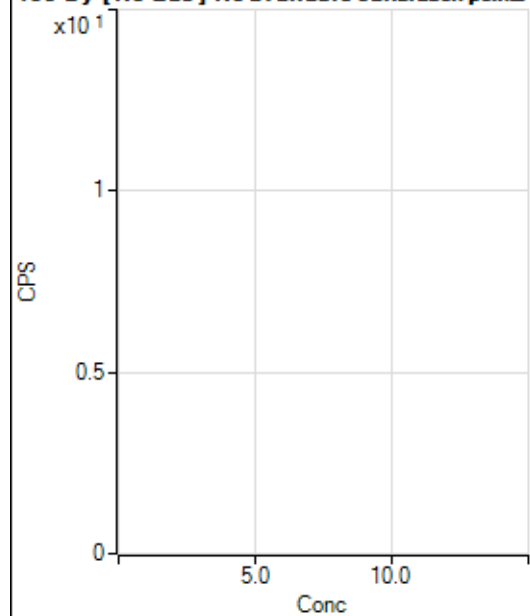
Min Conc: 0

150 Nd [No Gas] No available calibration points

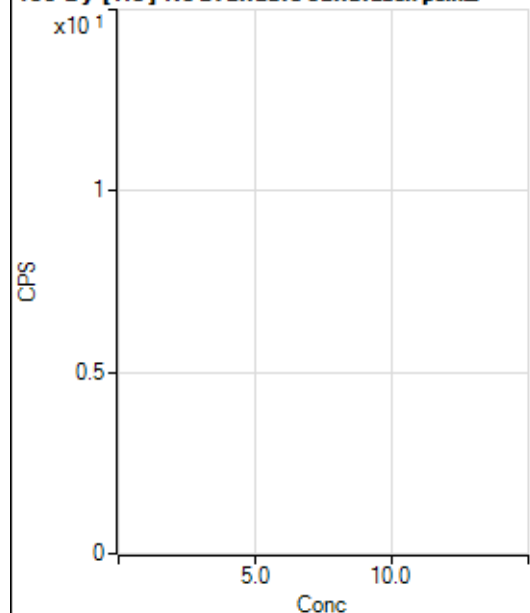
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			12.22		P	41.7
2	☐			11.11		P	45.8
3	☐			65.55		P	38.8
4	☐			210.00		P	9.7
5	☐			361.12		P	14.0
6	☐			686.69		P	8.9
7	☐			1440.09		P	5.3
8	☐			296.67		P	13.2

150 Nd [He] No available calibration points

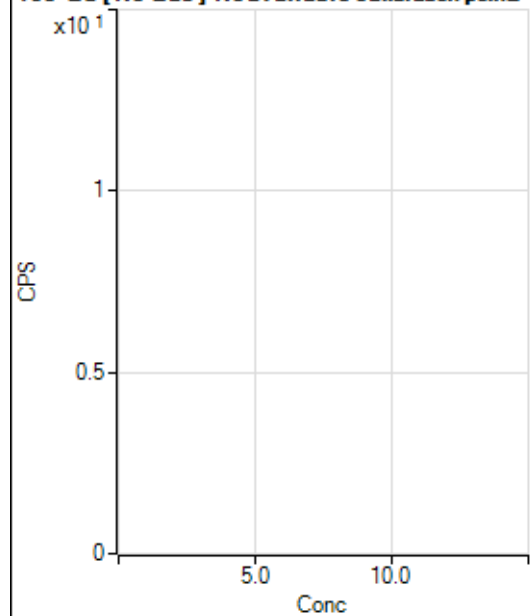
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			0.00		P	
2	☐			0.00		P	
3	☐			1.11		P	173.2
4	☐			1.11		P	173.2
5	☐			11.11		P	86.6
6	☐			26.67		P	12.5
7	☐			43.33		P	33.5
8	☐			51.11		P	38.2

156 Dy [No Gas] No available calibration points

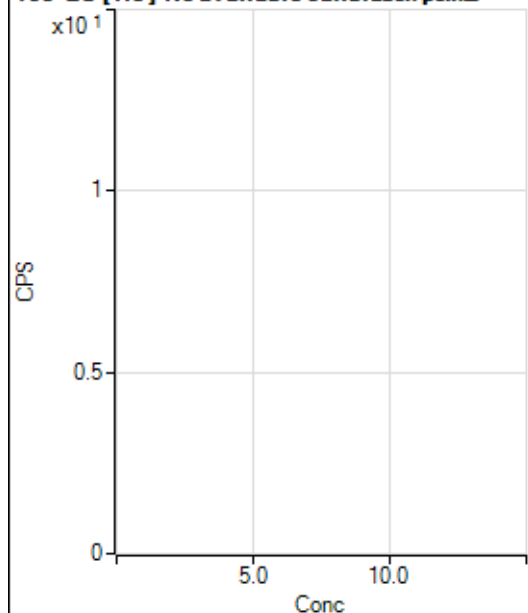
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			231.12		P	14.0
2	☐			203.34		P	15.0
3	☐			224.45		P	14.3
4	☐			212.23		P	11.8
5	☐			291.12		P	10.4
6	☐			353.34		P	4.1
7	☐			477.79		P	4.6
8	☐			556.68		P	3.7

156 Dy [He] No available calibration points

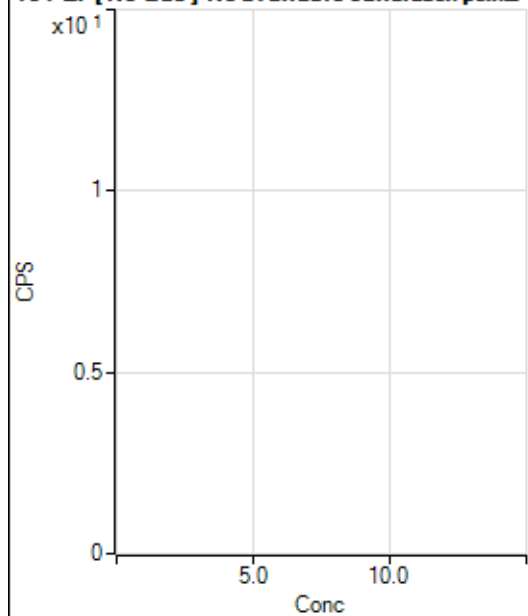
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			4.44		P	43.4
2	☐			6.67		P	86.6
3	☐			5.55		P	69.3
4	☐			13.34		P	43.3
5	☐			14.44		P	35.3
6	☐			26.67		P	45.1
7	☐			58.89		P	21.4
8	☐			117.78		P	15.6

160 Gd [No Gas] Noavailable calibration poin_

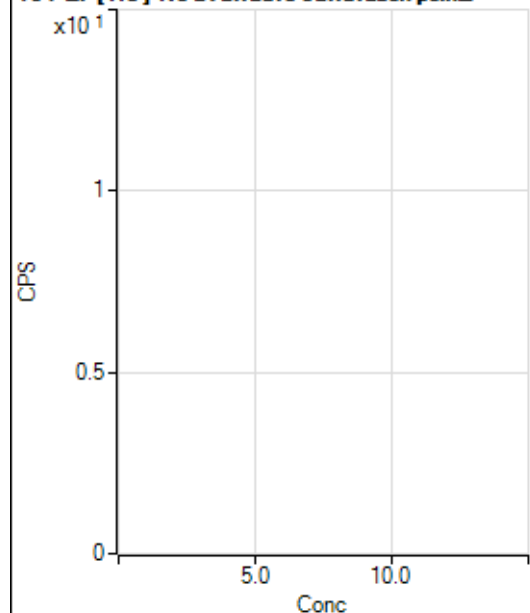
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			33.33		P	45.8
2	☐			55.56		P	44.2
3	☐			47.78		P	52.4
4	☐			54.44		P	23.2
5	☐			70.00		P	19.0
6	☐			134.45		P	12.5
7	☐			186.67		P	13.9
8	☐			368.90		P	9.9

160 Gd [He] No available calibration points

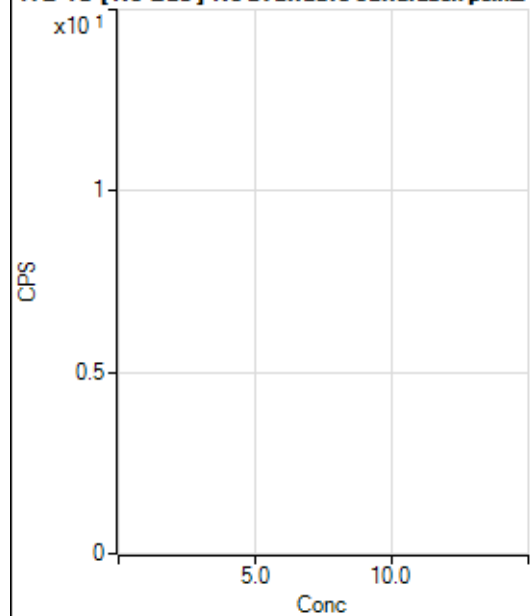
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			5.56		P	34.7
2	☐			13.33		P	75.0
3	☐			8.89		P	57.3
4	☐			14.44		P	35.3
5	☐			20.00		P	28.9
6	☐			36.67		P	24.1
7	☐			61.11		P	19.2
8	☐			152.22		P	4.6

164 Er [No Gas] No available calibration points

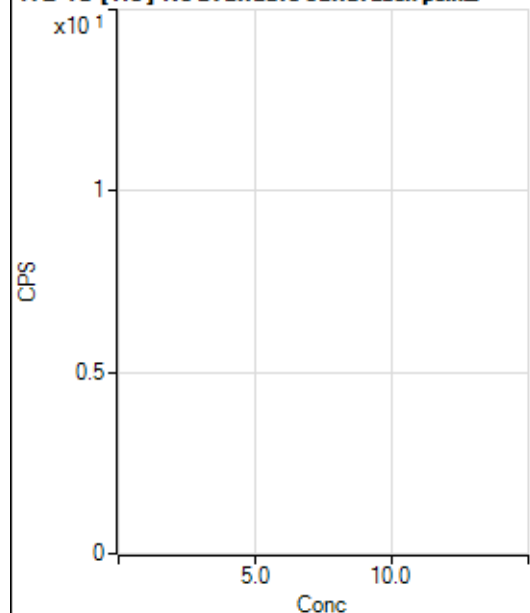
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			76.67		P	19.0
2	☐			65.56		P	43.3
3	☐			73.33		P	27.7
4	☐			68.89		P	20.1
5	☐			80.00		P	18.2
6	☐			160.00		P	11.6
7	☐			204.45		P	4.7
8	☐			444.46		P	9.3

164 Er [He] No available calibration points

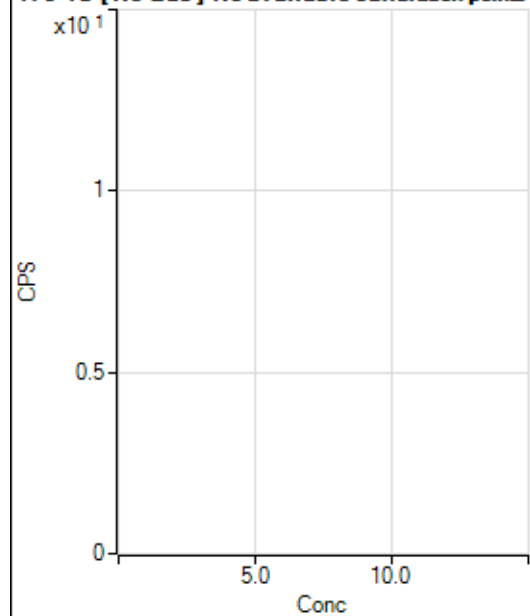
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			26.66		P	78.1
2	☐			35.55		P	19.5
3	☐			31.11		P	32.7
4	☐			30.00		P	40.1
5	☐			37.78		P	28.4
6	☐			44.45		P	15.6
7	☐			83.33		P	10.6
8	☐			157.78		P	10.8

172 Yb [No Gas] No available calibration points

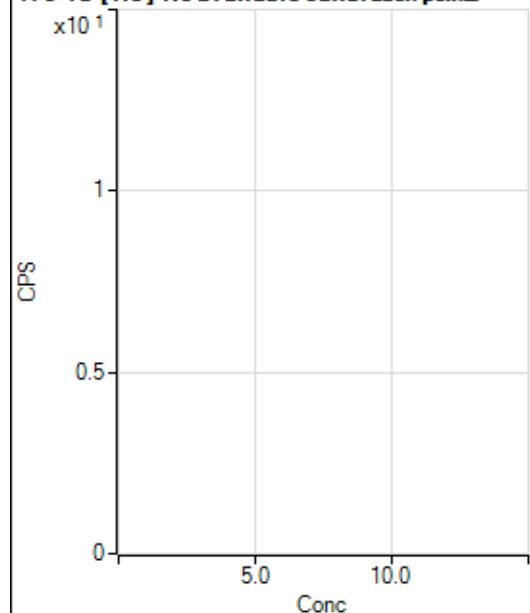
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			74.44		P	15.7
2	☐			72.22		P	30.7
3	☐			52.22		P	40.5
4	☐			86.67		P	13.9
5	☐			121.11		P	7.9
6	☐			135.56		P	27.1
7	☐			205.56		P	27.8
8	☐			463.34		P	5.6

172 Yb [He] No available calibration points

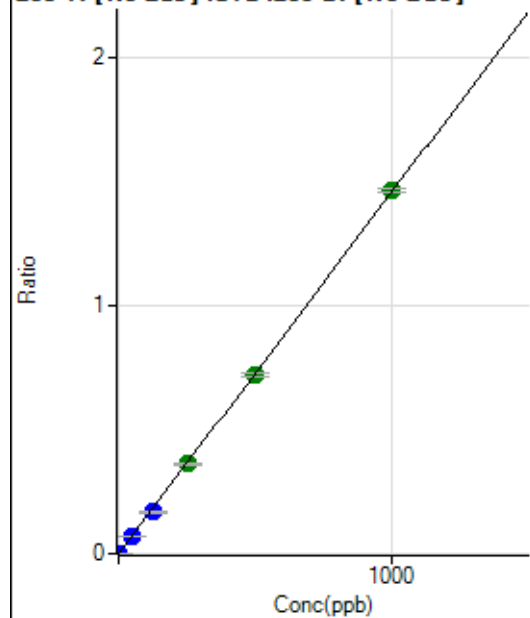
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			28.89		P	13.3
2	☐			30.00		P	11.1
3	☐			38.89		P	4.9
4	☐			26.67		P	21.7
5	☐			43.33		P	42.8
6	☐			53.33		P	27.2
7	☐			76.67		P	28.5
8	☐			180.00		P	6.4

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			1733.47		P	1.3
2	☐			1729.02		P	3.6
3	☐			3998.43		P	2.8
4	☐			7365.46		P	1.7
5	☐			13289.01		P	2.9
6	☐			25288.72		P	0.9
7	☐			49294.85		P	1.2
8	☐			1757.92		P	3.5

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			260.01		P	13.9
2	☐			298.90		P	9.3
3	☐			985.60		P	1.3
4	☐			2200.20		P	3.5
5	☐			4245.16		P	1.2
6	☐			8314.90		P	0.2
7	☐			16637.23		P	0.3
8	☐			313.34		P	9.6

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	296.67	0.0000	P	16.3
2	☐	1.000	0.950	11089.26	0.0014	P	2.7
3	☐	50.000	46.953	521845.81	0.0684	P	2.0
4	☐	125.000	115.311	1288585.11	0.1680	P	1.5
5	☐	250.000	248.792	2745421.32	0.3625	A	3.3
6	☐	500.000	493.779	5431852.91	0.7194	A	2.1
7	☐	1000.000	1004.776	10794604.70	1.4639	A	1.1
8	☐			930.05	0.0002	P	4.2

$$y = 0.0015 * x + 3.7933E-005$$

$$R = 0.9999$$

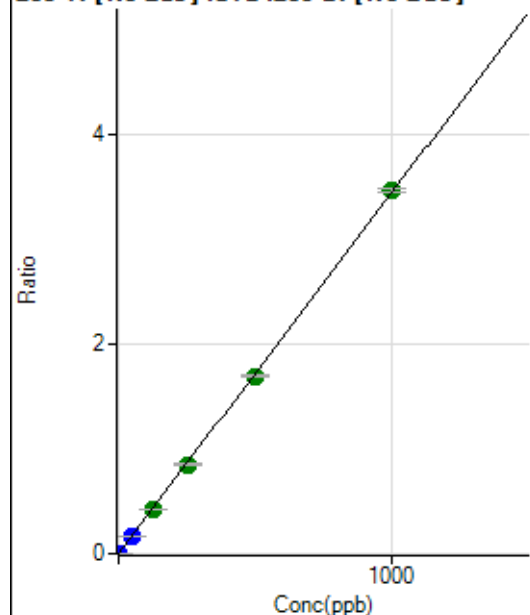
$$DL = 0.01272$$

$$BEC = 0.02604$$

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	742.25	0.0001	P	5.6
2	☐	1.000	0.949	26273.32	0.0034	P	0.6
3	☐	50.000	47.502	1250188.23	0.1640	P	1.4
4	☐	125.000	121.853	3224318.74	0.4204	A	1.1
5	☐	250.000	247.165	6459577.06	0.8527	A	1.1
6	☐	500.000	490.876	12788047.72	1.6934	A	1.0
7	☐	1000.000	1005.789	25584986.29	3.4697	A	1.1
8	☐			2077.97	0.0004	P	13.4

$$y = 0.0034 * x + 9.4804E-005$$

$$R = 0.9999$$

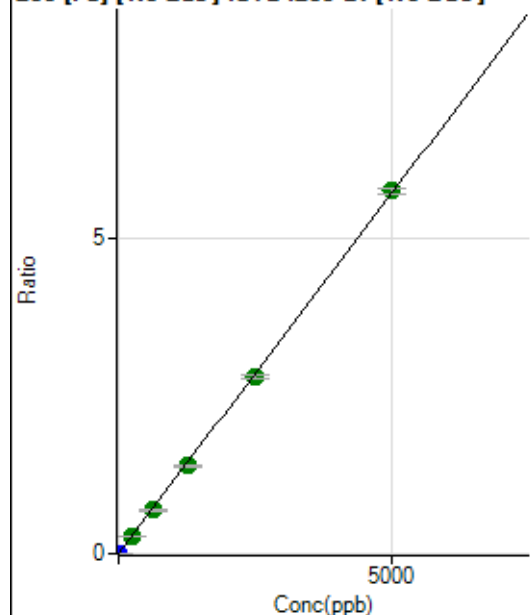
$$DL = 0.004639$$

$$BEC = 0.02748$$

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	1000.05	0.0001	P	1.0
2	☐	1.000	0.981	9717.06	0.0012	P	1.4
3	☐	250.000	249.397	2168779.85	0.2845	A	2.6
4	☐	625.000	605.393	5293890.79	0.6903	A	1.8
5	☐	1250.000	1220.648	10542429.15	1.3918	A	1.8
6	☐	2500.000	2448.761	21080215.94	2.7920	A	2.2
7	☐	5000.000	5035.439	42332889.65	5.7411	A	1.5
8	☐			5676.86	0.0010	P	4.1

$$y = 0.0011 * x + 1.2765E-004$$

$$R = 0.9999$$

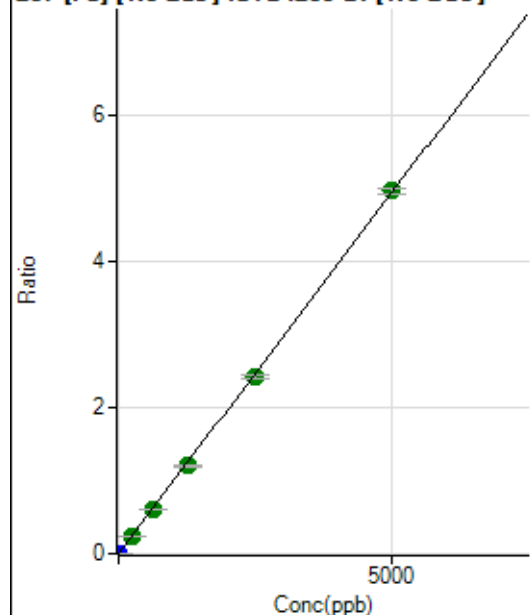
$$DL = 0.00325$$

$$BEC = 0.112$$

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	884.48	0.0001	P	7.3
2	☐	1.000	0.969	8355.00	0.0011	P	1.8
3	☐	250.000	249.890	1884225.84	0.2471	A	1.9
4	☐	625.000	606.911	4601294.59	0.6000	A	2.2
5	☐	1250.000	1222.458	9152883.54	1.2085	A	2.9
6	☐	2500.000	2451.537	18295814.45	2.4234	A	2.9
7	☐	5000.000	5033.384	36688269.17	4.9756	A	1.5
8	☐			4828.74	0.0008	P	8.7

$$y = 9.8849\text{E-}004 * x + 1.1297\text{E-}004$$

$$R = 0.9999$$

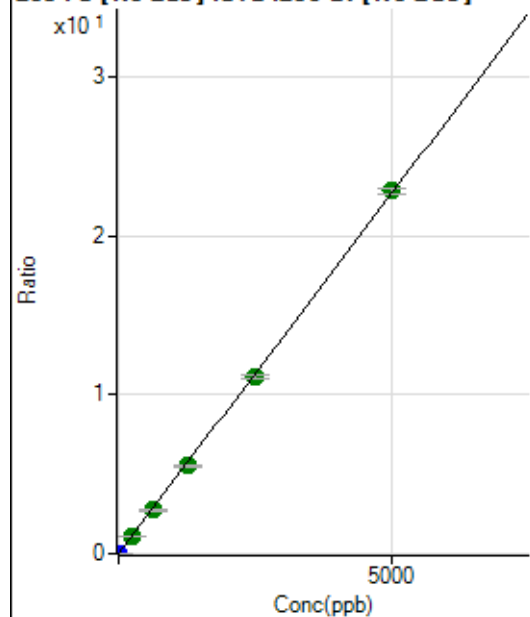
$$DL = 0.02486$$

$$BEC = 0.1143$$

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	3924.71	0.0005	P	3.0
2	☐	1.000	0.970	38237.85	0.0049	P	0.6
3	☐	250.000	249.473	8630780.14	1.1321	A	2.2
4	☐	625.000	604.575	21032687.30	2.7427	A	1.6
5	☐	1250.000	1221.324	41965670.42	5.5401	A	1.8
6	☐	2500.000	2444.595	83722640.28	11.0886	A	2.1
7	☐	5000.000	5037.451	168483367.4	22.8492	A	1.4
8	☐			22703.68	0.0039	P	5.6

$$y = 0.0045 * x + 5.0119\text{E-}004$$

$$R = 0.9999$$

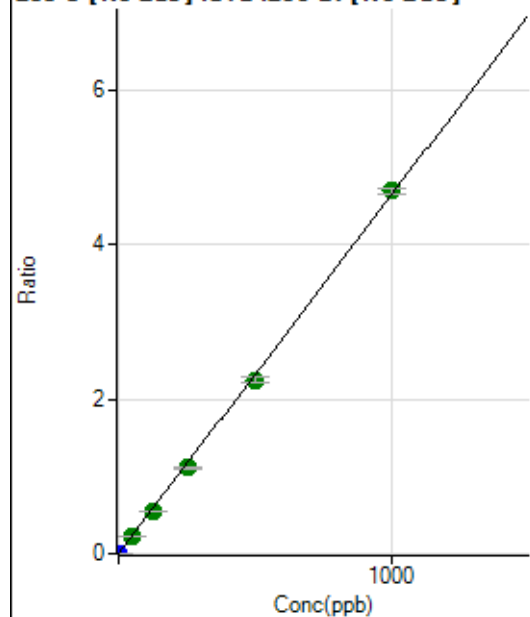
$$DL = 0.009807$$

$$BEC = 0.1105$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	76.67	0.0000	P	31.8
2	☐	1.000	0.944	34261.71	0.0044	P	2.0
3	☐	50.000	48.277	1708771.62	0.2241	A	1.7
4	☐	125.000	118.495	4218320.35	0.5501	A	1.1
5	☐	250.000	239.393	8417740.78	1.1113	A	2.0
6	☐	500.000	484.830	16991999.61	2.2506	A	2.4
7	☐	1000.000	1011.136	34610929.76	4.6937	A	1.3
8	☐			1725.70	0.0003	P	16.4

$$y = 0.0046 * x + 9.8158E-006$$

$$R = 0.9998$$

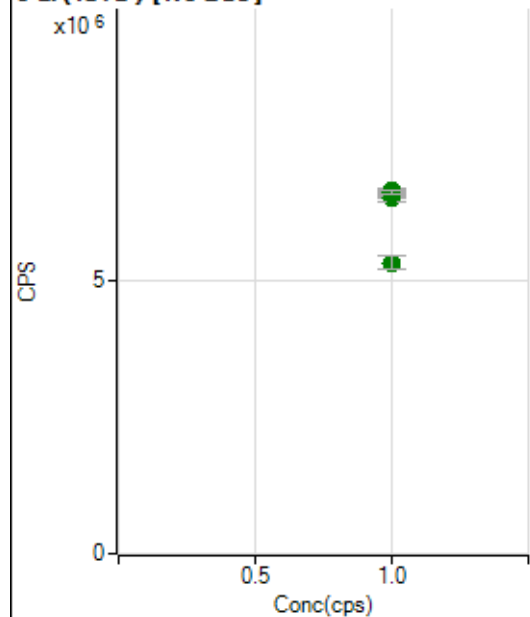
$$DL = 0.002016$$

$$BEC = 0.002115$$

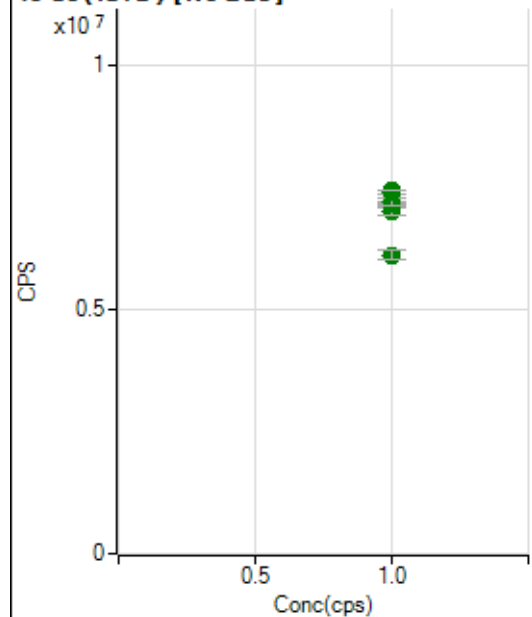
Weight: <None>

Min Conc: 0

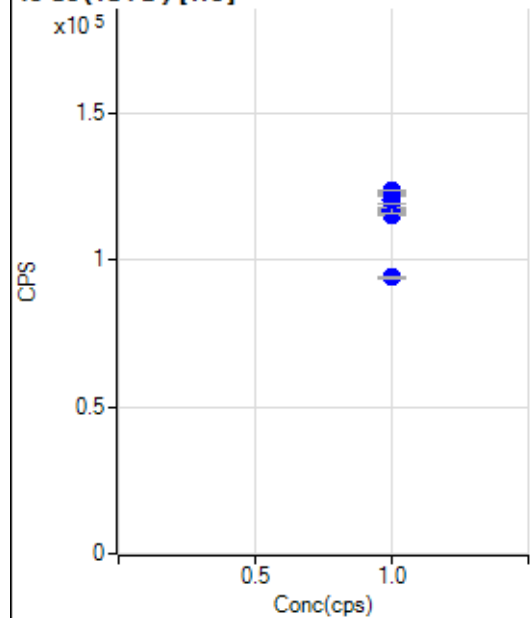
6 Li (ISTD) [No Gas]



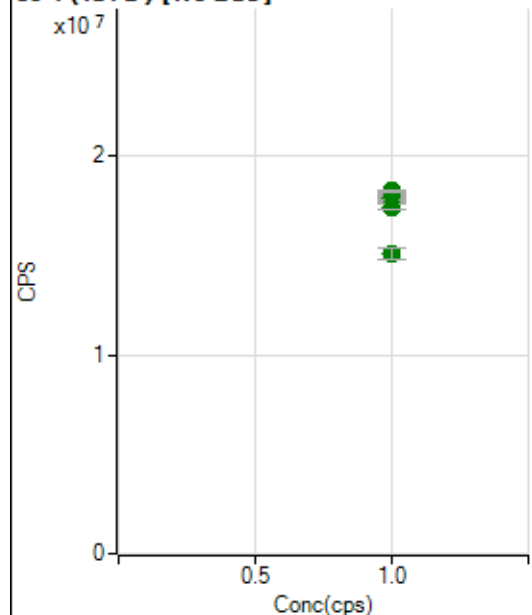
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		6537049.81		A	0.9
2	☐	1.000		6581078.99		A	1.2
3	☐	1.000		6502261.24		A	1.7
4	☐	1.000		6564847.95		A	0.7
5	☐	1.000		6619324.52		A	1.4
6	☐	1.000		6629591.05		A	0.8
7	☐	1.000		6614253.85		A	1.2
8	☐	1.000		5311038.84		A	4.6

45 Sc (ISTD) [No Gas]

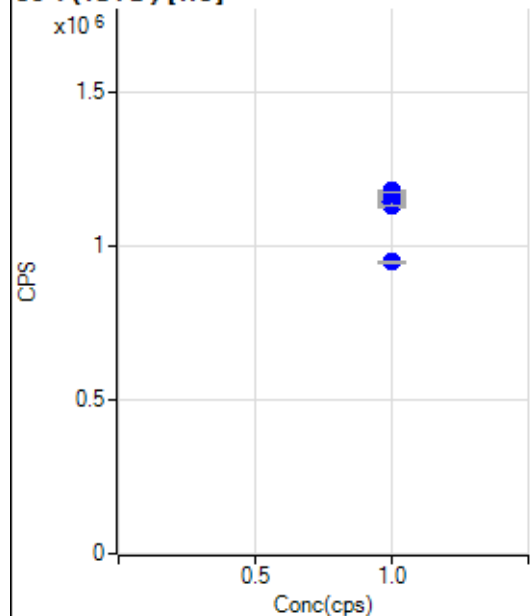
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		7186843.30		A	1.2
2	☐	1.000		7165108.16		A	0.3
3	☐	1.000		7012363.78		A	2.0
4	☐	1.000		7186483.09		A	0.2
5	☐	1.000		7217714.96		A	1.7
6	☐	1.000		7417031.21		A	1.0
7	☐	1.000		7440993.15		A	0.2
8	☐	1.000		6129411.99		A	3.4

45 Sc (ISTD) [He]

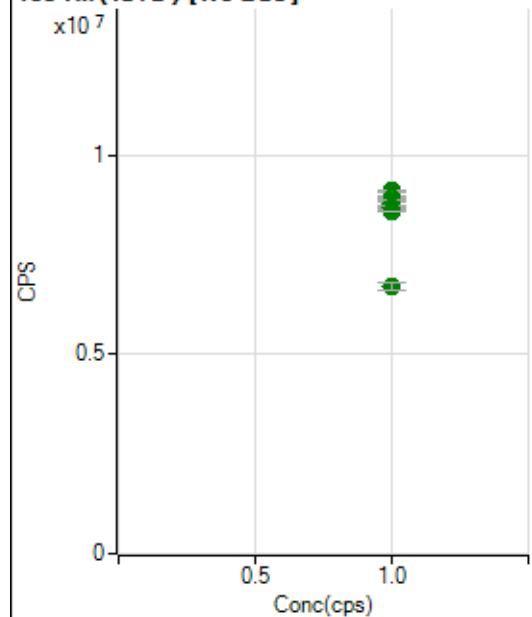
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		116825.24		P	0.4
2	☐	1.000		116497.29		P	1.7
3	☐	1.000		115459.81		P	0.7
4	☐	1.000		117211.06		P	1.8
5	☐	1.000		120307.03		P	2.2
6	☐	1.000		122829.04		P	0.8
7	☐	1.000		123672.84		P	0.2
8	☐	1.000		94189.16		P	0.5

89 Y (ISTD) [No Gas]

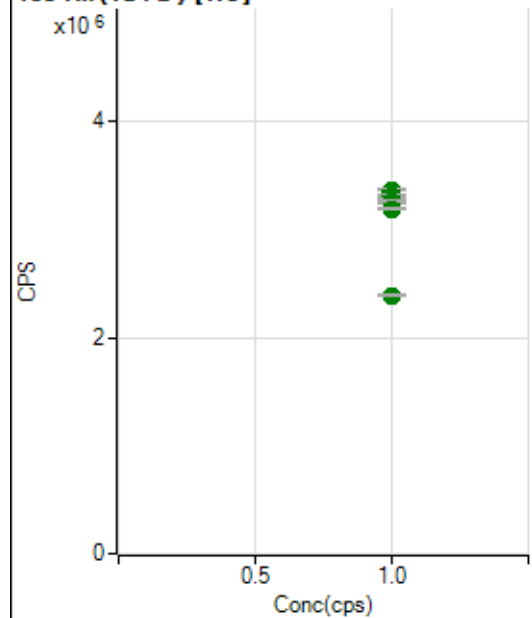
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		17865768.35		A	0.5
2	☐	1.000		17661633.76		A	0.5
3	☐	1.000		17422225.57		A	1.6
4	☐	1.000		17770633.48		A	1.8
5	☐	1.000		17892664.87		A	1.6
6	☐	1.000		18088329.59		A	0.2
7	☐	1.000		18251500.42		A	0.4
8	☐	1.000		15129061.86		A	3.9

89 Y (ISTD) [He]

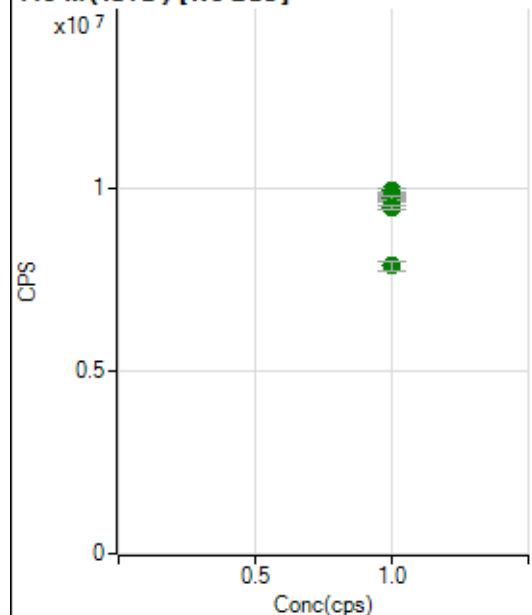
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1139238.12		P	0.7
2	☐	1.000		1145273.80		P	0.7
3	☐	1.000		1127566.94		P	0.5
4	☐	1.000		1140716.08		P	1.8
5	☐	1.000		1163676.71		P	0.6
6	☐	1.000		1176835.88		P	0.5
7	☐	1.000		1174273.65		P	0.2
8	☐	1.000		945028.65		P	1.0

103 Rh (ISTD) [No Gas]

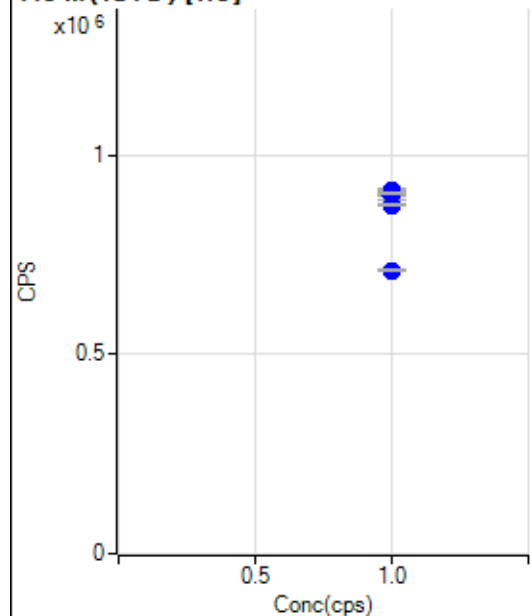
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		9110403.27		A	0.4
2	☐	1.000		8954553.69		A	0.4
3	☐	1.000		8749648.76		A	2.0
4	☐	1.000		8861332.44		A	0.5
5	☐	1.000		8789197.72		A	1.9
6	☐	1.000		8691701.19		A	1.0
7	☐	1.000		8599035.91		A	0.4
8	☐	1.000		6700350.80		A	3.0

103 Rh (ISTD) [He]

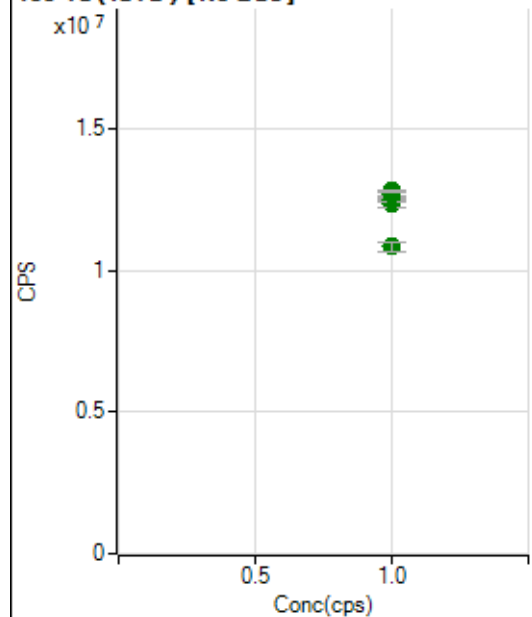
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3349080.05		A	1.0
2	☐	1.000		3354179.22		A	1.3
3	☐	1.000		3296151.55		A	1.4
4	☐	1.000		3269278.98		A	1.8
5	☐	1.000		3302172.52		A	1.2
6	☐	1.000		3258421.34		A	0.3
7	☐	1.000		3189565.30		A	1.0
8	☐	1.000		2388102.36		A	0.6

115 In (ISTD) [No Gas]

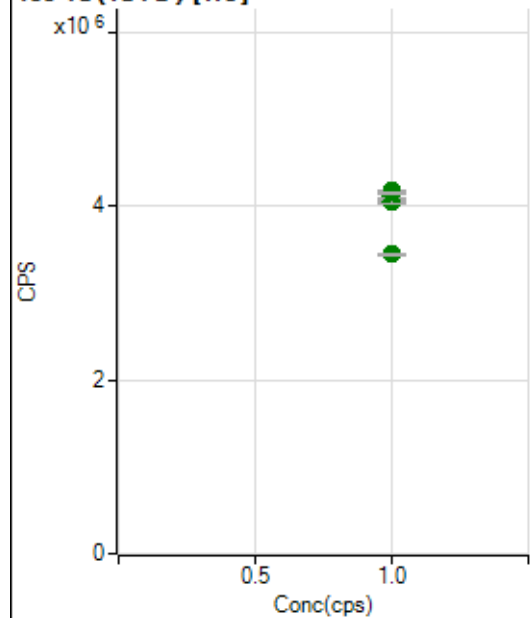
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		9942879.82		A	0.9
2	☐	1.000		9859108.66		A	0.3
3	☐	1.000		9556169.79		A	2.9
4	☐	1.000		9691614.81		A	0.8
5	☐	1.000		9760365.49		A	0.3
6	☐	1.000		9751384.78		A	0.7
7	☐	1.000		9486705.52		A	0.9
8	☐	1.000		7883151.54		A	3.1

115 In (ISTD) [He]

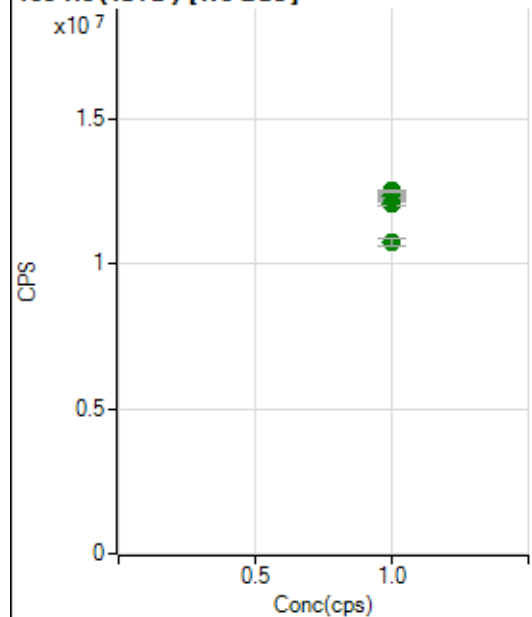
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		908181.65		P	0.9
2	☐	1.000		909793.99		P	1.1
3	☐	1.000		897733.91		P	0.6
4	☐	1.000		896170.47		P	1.8
5	☐	1.000		906314.77		P	1.1
6	☐	1.000		903450.86		P	0.7
7	☐	1.000		874927.52		P	0.4
8	☐	1.000		710835.97		P	0.7

159 Tb (ISTD) [No Gas]

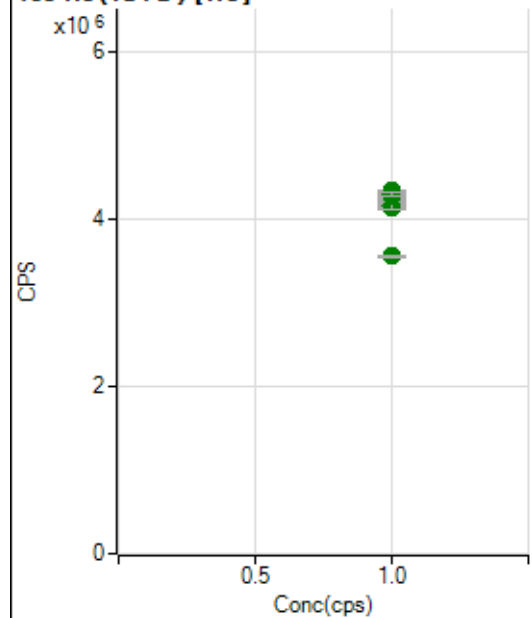
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		12550278.01		A	0.2
2	☐	1.000		12496787.32		A	0.7
3	☐	1.000		12349618.01		A	1.9
4	☐	1.000		12527588.28		A	1.1
5	☐	1.000		12701786.90		A	1.4
6	☐	1.000		12801467.03		A	0.8
7	☐	1.000		12817235.92		A	0.6
8	☐	1.000		10841945.81		A	3.2

159 Tb (ISTD) [He]

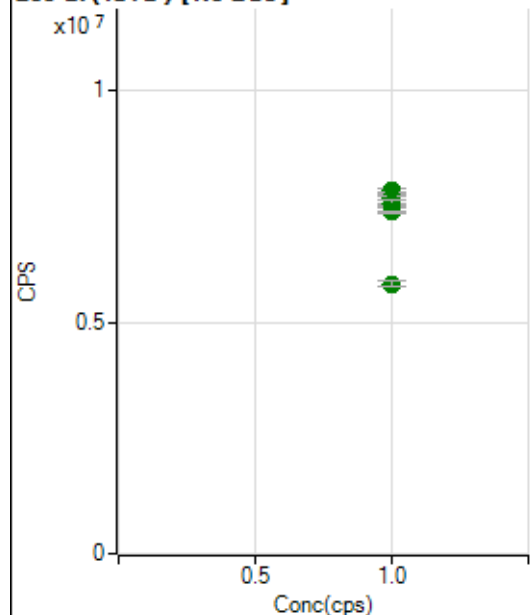
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		4073261.71		A	0.8
2	☐	1.000		4124302.96		A	1.4
3	☐	1.000		4058328.31		A	1.1
4	☐	1.000		4062166.57		A	1.3
5	☐	1.000		4178896.53		A	0.7
6	☐	1.000		4159638.27		A	1.1
7	☐	1.000		4153117.47		A	0.4
8	☐	1.000		3450219.32		A	0.6

165 Ho (ISTD) [No Gas]

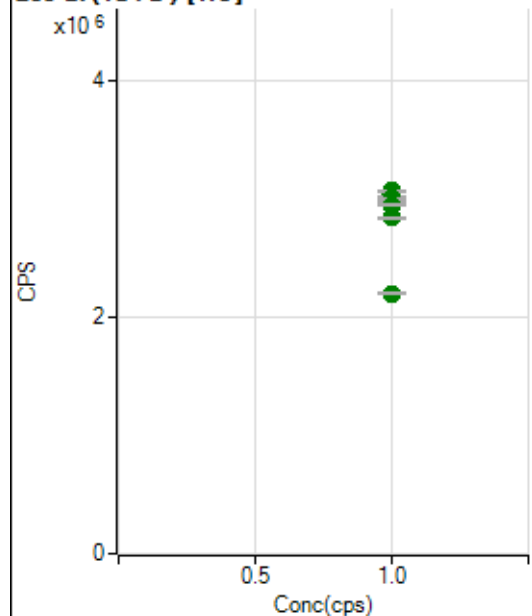
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		12195429.40		A	0.7
2	☐	1.000		12267700.23		A	0.2
3	☐	1.000		12111747.46		A	1.7
4	☐	1.000		12257678.43		A	1.0
5	☐	1.000		12357430.65		A	1.2
6	☐	1.000		12508571.06		A	0.5
7	☐	1.000		12521445.64		A	0.3
8	☐	1.000		10743651.72		A	2.9

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		4138483.83		A	0.8
2	☐	1.000		4188868.24		A	1.7
3	☐	1.000		4159572.23		A	1.1
4	☐	1.000		4160594.42		A	2.3
5	☐	1.000		4264454.07		A	1.1
6	☐	1.000		4332749.79		A	0.7
7	☐	1.000		4293343.65		A	0.6
8	☐	1.000		3553278.66		A	0.8

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		7833317.04		A	1.9
2	☐	1.000		7799400.58		A	0.6
3	☐	1.000		7626378.71		A	2.1
4	☐	1.000		7669246.48		A	0.9
5	☐	1.000		7576175.09		A	1.8
6	☐	1.000		7552441.42		A	2.0
7	☐	1.000		7374227.11		A	0.8
8	☐	1.000		5825036.51		A	2.5

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3039673.35		A	0.9
2	☐	1.000		3069424.40		A	0.7
3	☐	1.000		2991728.71		A	1.1
4	☐	1.000		3005979.99		A	1.5
5	☐	1.000		3004337.39		A	0.8
6	☐	1.000		2947594.85		A	0.4
7	☐	1.000		2845838.08		A	0.5
8	☐	1.000		2200798.53		A	0.5

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP8012825MS.b
Acq. Date-Time 2025-01-28 11:32:13
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		24866	248659.05			0.258	5.000
24		446005	4460051.36			0.545	5.000
25		60908	609082.86			0.106	5.000
26		68866	688660.64			0.275	5.000
59		96637	966365.22			0.610	5.000
113		11773	117725.28			0.799	5.000
115		157434	1574341.80			1.165	5.000
206		35408	354082.98			0.247	5.000
207		30892	308921.76			0.243	5.000
208		75038	750378.31			0.260	5.000
220		0	2.60			43.853	

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

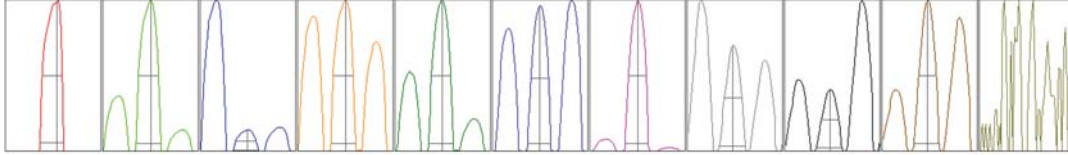
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	24929	24919	24878	24827	24776
24	447804	448551	444654	446462	442555
25	60983	60889	60812	60909	60948
26	68907	69142	68907	68684	68690
59	96771	96326	97613	96271	96201
113	11911	11776	11793	11654	11729
115	159254	158270	158593	156169	154885
206	35538	35388	35344	35449	35322
207	30878	30951	30978	30789	30864
208	75192	74909	75260	74788	75041

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	42551.98	9.15	8.90 - 9.10	Fail
24	758424.05	24.05	23.90 - 24.10	
25	103978.74	25.00	24.90 - 25.10	
26	116550.41	26.05	25.90 - 26.10	
59	171008.13	59.00	58.90 - 59.10	
113	22577.59	113.00	112.90 - 113.10	
115	300632.80	115.05	114.90 - 115.10	
206	67153.22	205.95	205.90 - 206.10	
207	57805.55	206.95	206.90 - 207.10	
208	140897.70	207.95	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.62	0.738	0.900	
24	0.63	0.785	0.900	
25	0.62	0.784	0.900	
26	0.63	0.784	0.900	
59	0.60	0.780	0.900	
113	0.55	0.729	0.900	
115	0.55	0.731	0.900	
206	0.55	0.818	0.900	
207	0.55	0.789	0.900	
208	0.55	0.787	0.900	
220				

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.78 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	7.3 V	Deflect	14.6 V
Extract 2	-115.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-60 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	170 V		

QP Parameters

Mass Gain	102	Axis Gain	0.9960	QP Bias	-4.0 V
Mass Offset	126	Axis Offset	0.05		

Hardware Settings

Torch

Torch H	-0.2 mm	Torch V	1.4 mm
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EM

Discriminator	4.0 mV	Analog HV	2178 V	Pulse HV	1068 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		16161	161605.17			1.897	
89		13562	135617.18			2.507	
205		19977	199769.32			0.978	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	16379	16241	16409	16121	15652
89	13811	13553	13927	13463	13055
205	20114	19926	20241	19799	19804

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.78 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	7.3 V	Deflect	2.2 V
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US EPA Tune Check Report

Extract 2	-115.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-60 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	190 V		

QP Parameters

Mass Gain	102	Axis Gain	0.9960	QP Bias	-13.0 V
Mass Offset	126	Axis Offset	0.05		

Hardware Settings

Torch

Torch H	-0.2 mm	Torch V	1.4 mm
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EM

Discriminator	4.0 mV	Analog HV	2178 V	Pulse HV	1068 V
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