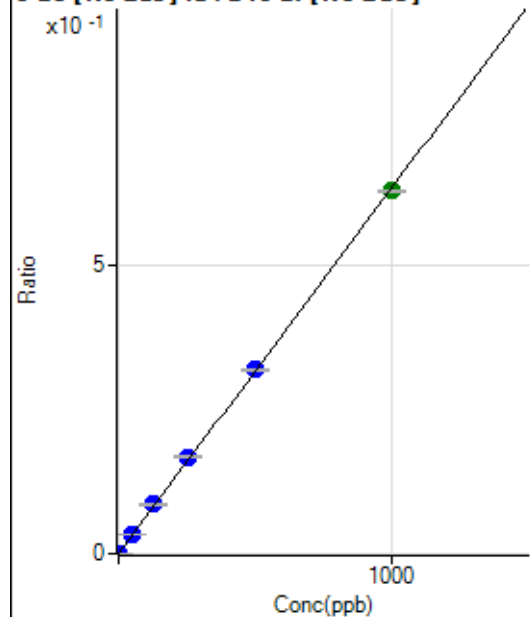


Batch Folder: D:\Agilent\ICPMH\1\DATA\P7061323MS.b\
Analysis File: P7061323MS.batch.bin
DA Date-Time: 2023-06-14 11:00:53
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2023-06-13 14:14:30
2	005CAL.S.d	S02	2023-06-13 14:17:43
3	006CAL.S.d	S03	2023-06-13 14:20:59
4	007CAL.S.d	S04	2023-06-13 14:24:01
5	008CAL.S.d	S05	2023-06-13 14:26:57
6	009CAL.S.d	S06	2023-06-13 14:29:44
7	010CAL.S.d	S07	2023-06-13 14:32:31
8	011CAL.S.d	S08	2023-06-13 14:35:16

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	65.56	0.0000	P	12.6
2	☐	1.000	1.050	1626.77	0.0007	P	5.0
3	☐	50.000	53.312	80228.39	0.0339	P	0.2
4	☐	125.000	135.358	196245.97	0.0860	P	4.0
5	☐	250.000	263.698	384796.89	0.1675	P	1.9
6	☐	500.000	504.172	738306.00	0.3203	P	1.4
7	☐	1000.000	993.029	1419983.62	0.6308	A	0.7
8	☐			720.02	0.0003	P	14.6

$$y = 6.3523\text{E-}004 * x + 2.7499\text{E-}005$$

$$R = 0.9999$$

$$DL = 0.01635$$

$$BEC = 0.04329$$

Weight: <None>

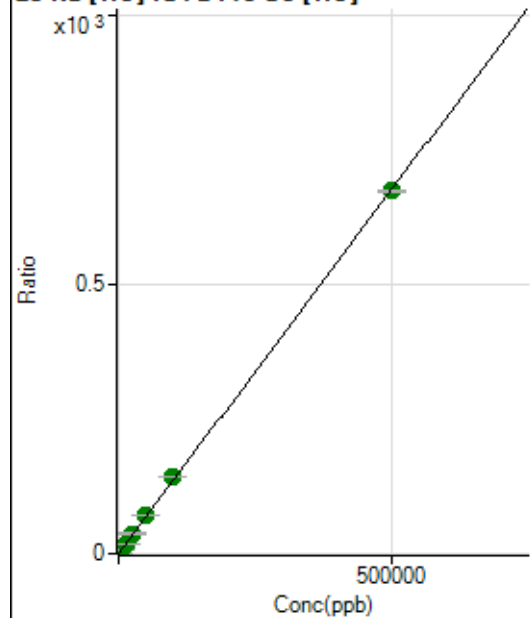
Min Conc: 0

12 C [No Gas] No available calibration points

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

12 C [He] No available calibration points

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

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	10837.22	0.0295	P	2.7
2	☐	500.000	514.912	258476.59	0.7245	P	0.3
3	☐	5000.000	5441.028	2595325.00	7.3738	A	0.9
4	☐	12500.000	13133.521	6399981.29	17.7572	A	1.6
5	☐	25000.000	27512.541	12608505.78	37.1661	A	3.3
6	☐	50000.000	53058.291	24291588.53	71.6479	A	1.7
7	☐	100000.00	105852.15	48150672.06	142.9093	A	1.6
8	☐	500000.00	498377.85	215139401.2	672.7427	A	0.6

$$y = 0.0013 * x + 0.0295$$

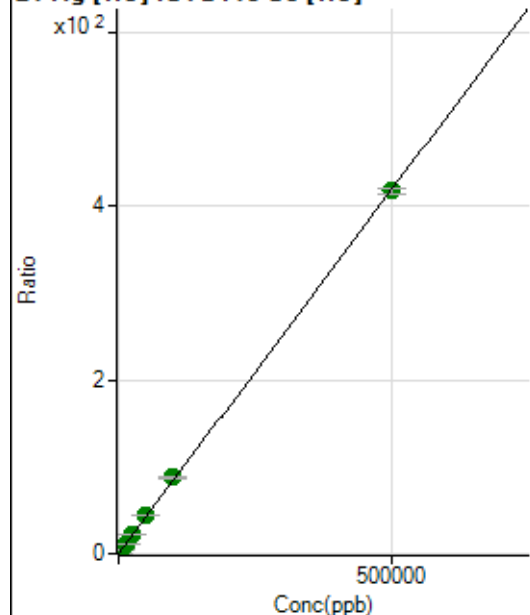
$$R = 0.9999$$

$$DL = 1.781$$

$$BEC = 21.84$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1122.27	0.0031	P	3.5
2	☐	500.000	514.748	154740.41	0.4337	P	0.6
3	☐	5000.000	5401.714	1591840.57	4.5226	A	0.2
4	☐	12500.000	12966.647	3911300.01	10.8522	A	1.5
5	☐	25000.000	27143.742	7706328.84	22.7140	A	2.9
6	☐	50000.000	52063.472	14771589.64	43.5642	A	0.4
7	☐	100000.00	105089.31	29625566.23	87.9306	A	2.2
8	☐	500000.00	498652.90	133423359.1	417.2227	A	1.4

$$y = 8.3669\text{E-}004 * x + 0.0031$$

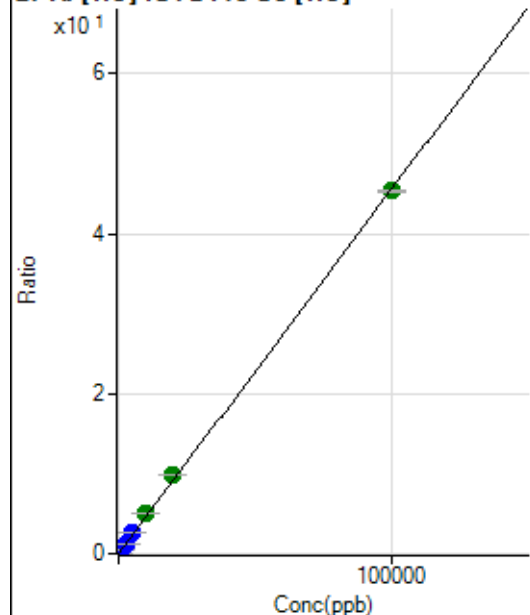
R = 0.9999

DL = 0.3858

BEC = 3.649

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	592.24	0.0016	P	5.9
2	☐	20.000	18.898	3644.91	0.0102	P	1.7
3	☐	1000.000	1115.444	179344.82	0.5095	P	0.6
4	☐	2500.000	2716.237	446369.74	1.2385	P	0.7
5	☐	5000.000	5661.441	875213.95	2.5796	P	2.9
6	☐	10000.000	10863.578	1677900.46	4.9485	A	0.7
7	☐	20000.000	21541.390	3305519.81	9.8108	A	1.6
8	☐	100000.00	99565.732	14499951.31	45.3405	A	0.4

$$y = 4.5537\text{E-}004 * x + 0.0016$$

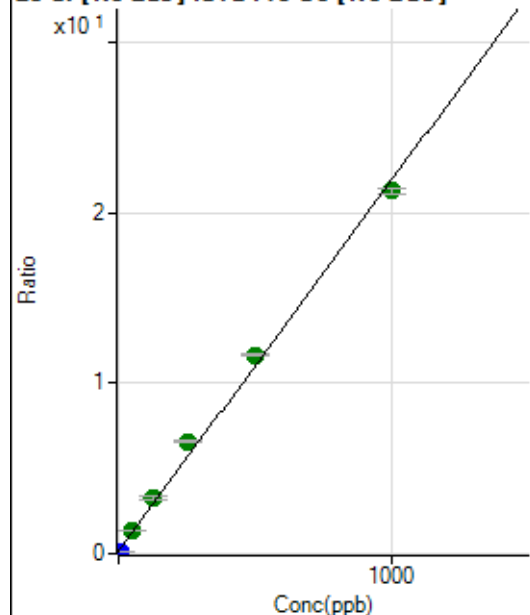
R = 0.9999

DL = 0.6211

BEC = 3.539

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	696432.28	0.1523	P	0.8
2	☐	10.000	0.476	745828.29	0.1626	P	3.1
3	☐	50.000	56.554	6307506.85	1.3810	A	1.2
4	☐	125.000	143.286	14332366.32	3.2654	A	6.2
5	☐	250.000	296.103	28792604.57	6.5856	A	0.9
6	☐	500.000	528.734	51163238.13	11.6399	A	0.7
7	☐	1000.000	971.589	91911174.19	21.2617	A	1.5
8	☐			1194019.56	0.2870	A	2.4

$$y = 0.0217 * x + 0.1523$$

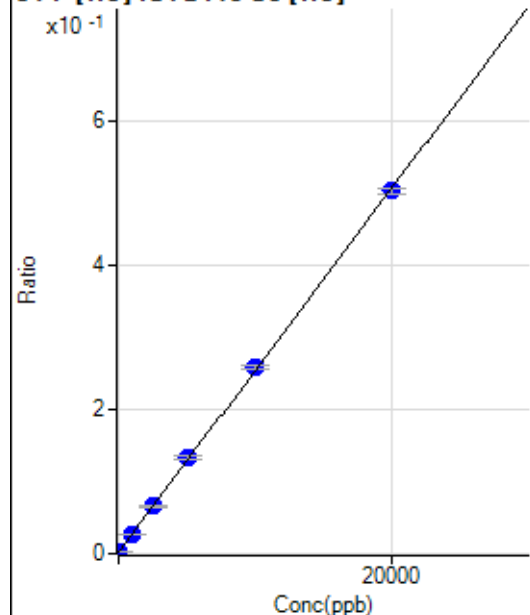
$$R = 0.9978$$

$$DL = 0.1642$$

$$BEC = 7.01$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	-6.346	667.80	0.0018	P	12.2
2	☐	0.000	6.346	762.25	0.0021	P	10.8
3	☐	1000.000	1015.688	9726.50	0.0276	P	2.0
4	☐	2500.000	2523.685	23688.40	0.0657	P	0.9
5	☐	5000.000	5203.029	45262.35	0.1334	P	3.0
6	☐	10000.000	10140.890	87518.37	0.2581	P	2.0
7	☐	20000.000	19875.052	169820.94	0.5040	P	1.6
8	☐			613.35	0.0019	P	7.0

$$y = 2.5261E-005 * x + 0.0020$$

$$R = 0.9999$$

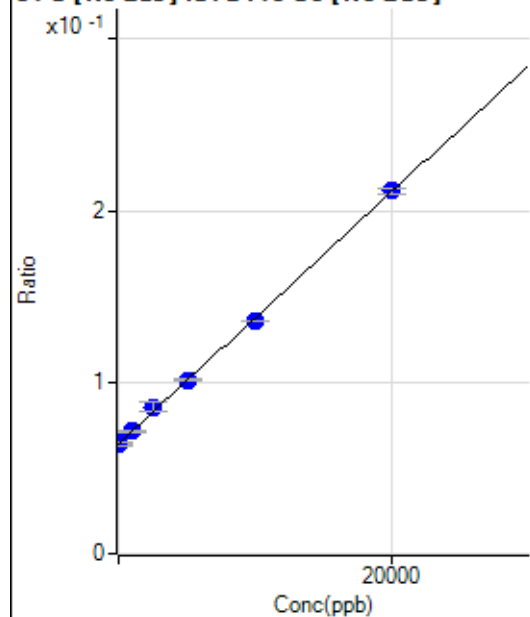
$$DL = 26.92$$

$$BEC = 78.23$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	56.704	295251.67	0.0646	P	0.8
2	☐	0.000	-56.704	292241.67	0.0637	P	3.0
3	☐	1000.000	994.191	326286.81	0.0714	P	1.8
4	☐	2500.000	2936.388	376307.58	0.0857	P	5.5
5	☐	5000.000	5035.066	442120.86	0.1011	P	0.8
6	☐	10000.000	9759.786	597024.25	0.1358	P	0.3
7	☐	20000.000	20057.083	914070.08	0.2115	P	1.3
8	☐			267051.18	0.0642	P	2.3

$$y = 7.3447\text{E-}006 * x + 0.0641$$

$$R = 0.9996$$

$$DL = 498$$

$$BEC = 8733$$

Weight: <None>

Min Conc: 0

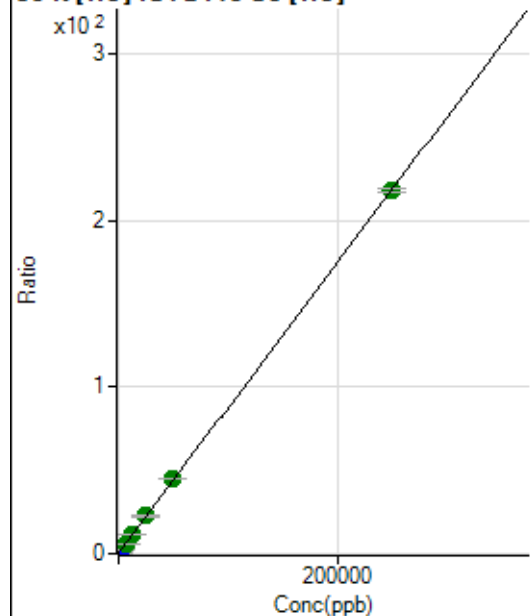
35 Cl [No Gas] No available calibration points



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

35 Cl [He] No available calibration points

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

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	88868.54	0.2418	P	0.5
2	☐	500.000	527.291	250182.03	0.7013	P	0.6
3	☐	2500.000	2810.679	947189.83	2.6911	P	0.8
4	☐	6250.000	6494.579	2126960.71	5.9015	A	0.7
5	☐	12500.000	13092.648	3951966.50	11.6514	A	4.2
6	☐	25000.000	25595.086	7644408.29	22.5468	A	1.4
7	☐	50000.000	51423.005	15180440.19	45.0547	A	1.6
8	☐	250000.00	249616.98	69642230.63	217.7723	A	1.1

$$y = 8.7146E-004 * x + 0.2418$$

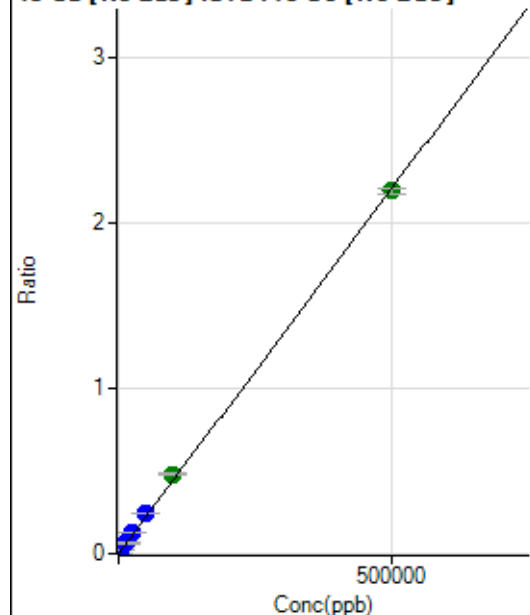
$$R = 1.0000$$

$$DL = 3.969$$

$$BEC = 277.4$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	170.00	0.0000	P	14.8
2	☐	500.000	508.393	10469.24	0.0023	P	5.4
3	☐	5000.000	5819.072	117623.73	0.0258	P	1.4
4	☐	12500.000	14746.202	286191.27	0.0652	P	6.3
5	☐	25000.000	29059.346	561634.58	0.1285	P	0.9
6	☐	50000.000	56252.441	1092901.49	0.2486	P	0.8
7	☐	100000.00	108858.71	2079547.56	0.4811	A	3.0
8	☐	500000.00	497335.69	9146509.86	2.1980	A	1.3

$$y = 4.4194\text{E-}006 * x + 3.7206\text{E-}005$$

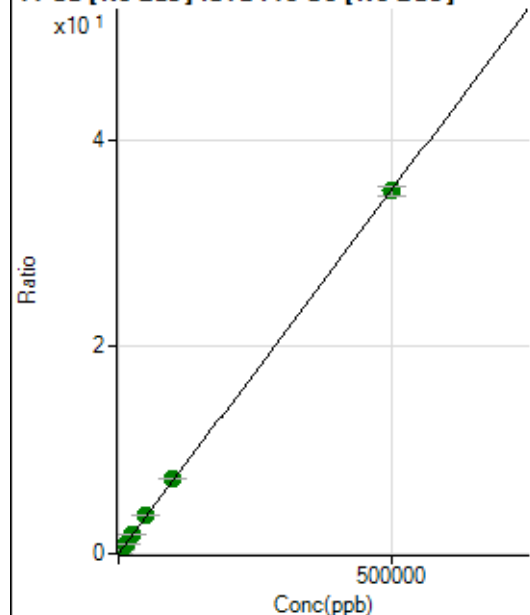
$$R = 0.9998$$

$$DL = 3.733$$

$$BEC = 8.419$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	15974.10	0.0035	P	4.2
2	☐	500.000	501.782	177576.50	0.0387	P	3.7
3	☐	5000.000	5377.300	1740781.24	0.3811	A	0.1
4	☐	12500.000	13605.417	4209196.33	0.9589	A	5.9
5	☐	25000.000	26823.565	8251451.75	1.8871	A	1.4
6	☐	50000.000	51794.541	16002441.15	3.6406	A	0.4
7	☐	100000.00	102992.40	31278335.65	7.2359	A	1.6
8	☐	500000.00	499099.47	145849527.8	35.0516	A	2.4

$$y = 7.0223\text{E-}005 * x + 0.0035$$

$$R = 1.0000$$

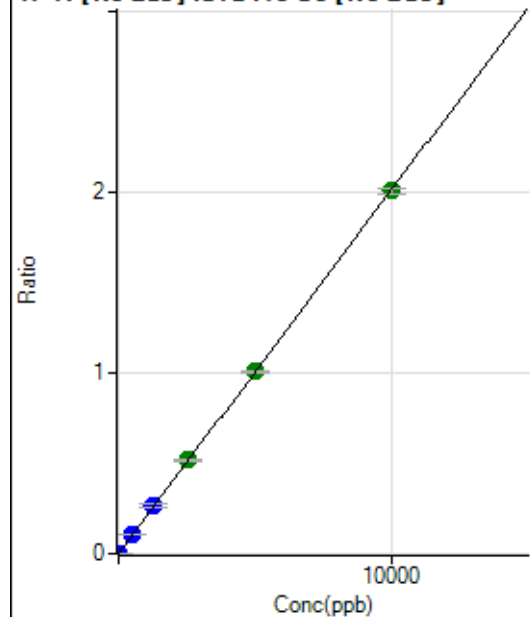
$$DL = 6.265$$

$$BEC = 49.71$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	85.56	0.0000	P	50.6
2	☐	5.000	4.870	4577.40	0.0010	P	3.2
3	☐	500.000	514.260	472330.24	0.1034	P	2.2
4	☐	1250.000	1318.299	1163666.12	0.2651	P	6.0
5	☐	2500.000	2583.166	2270969.81	0.5194	A	1.7
6	☐	5000.000	4999.778	4419244.69	1.0054	A	0.8
7	☐	10000.000	9970.069	8666145.08	2.0048	A	1.6
8	☐			1307.85	0.0003	P	25.6

$$y = 2.0108\text{E-}004 * x + 1.8829\text{E-}005$$

$$R = 0.9999$$

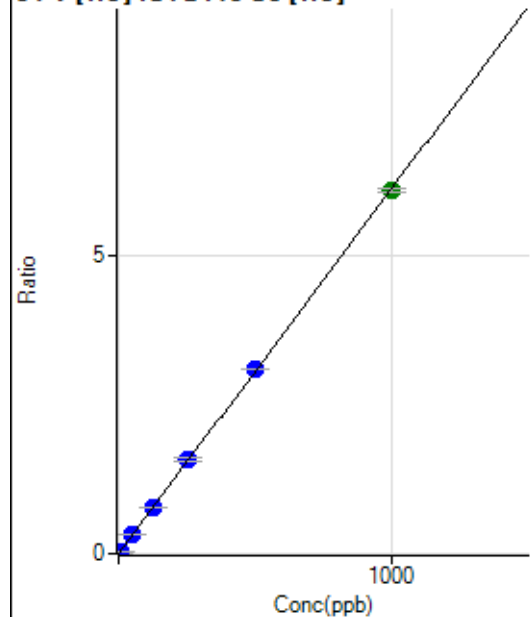
$$DL = 0.1421$$

$$BEC = 0.09364$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	11.11	0.0000	P	17.6
2	☐	5.000	4.911	10741.69	0.0301	P	3.0
3	☐	50.000	51.527	111089.56	0.3156	P	0.9
4	☐	125.000	126.314	278845.70	0.7737	P	1.8
5	☐	250.000	259.636	539494.68	1.5902	P	3.3
6	☐	500.000	505.599	1050007.71	3.0967	P	0.6
7	☐	1000.000	994.551	2052417.92	6.0914	A	1.2
8	☐			478.90	0.0015	P	4.2

$$y = 0.0061 * x + 3.0233\text{E-}005$$

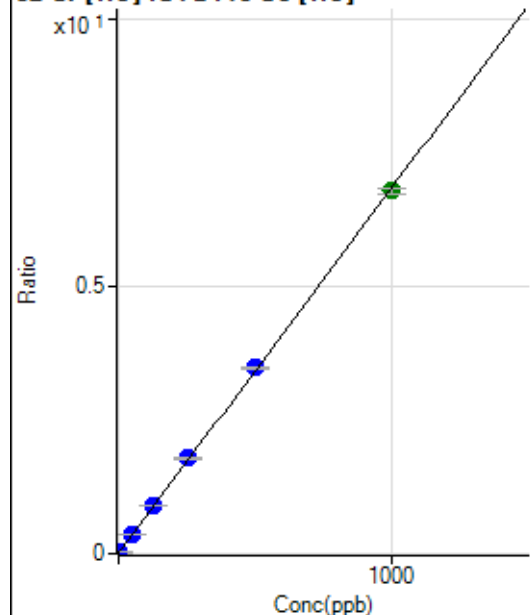
$$R = 0.9999$$

$$DL = 0.002606$$

$$BEC = 0.004936$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	2541.35	0.0069	P	3.3
2	☐	2.000	1.957	7232.90	0.0203	P	2.8
3	☐	50.000	52.318	128131.26	0.3641	P	1.5
4	☐	125.000	128.661	319033.33	0.8852	P	0.9
5	☐	250.000	261.015	606840.01	1.7887	P	3.0
6	☐	500.000	507.704	1177486.72	3.4726	P	0.5
7	☐	1000.000	992.821	2285717.61	6.7842	A	1.9
8	☐			11282.09	0.0353	P	1.0

$$y = 0.0068 * x + 0.0069$$

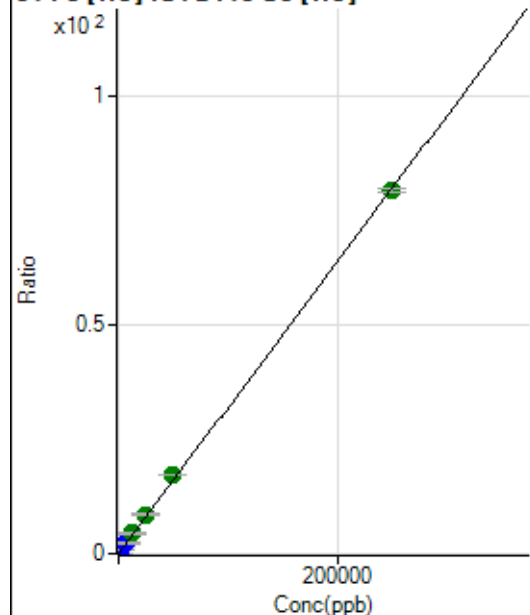
$$R = 0.9999$$

$$DL = 0.09894$$

$$BEC = 1.013$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1895.69	0.0052	P	8.2
2	☐	50.000	57.597	8374.62	0.0235	P	2.0
3	☐	2500.000	2990.257	336509.78	0.9561	P	0.8
4	☐	6250.000	7312.077	839935.05	2.3305	P	2.1
5	☐	12500.000	13942.296	1505704.96	4.4389	A	4.2
6	☐	25000.000	26955.760	2908041.03	8.5773	A	2.0
7	☐	50000.000	54082.967	5796477.41	17.2040	A	1.5
8	☐	250000.00	248884.26	25312134.62	79.1524	A	1.2

$$y = 3.1801E-004 * x + 0.0052$$

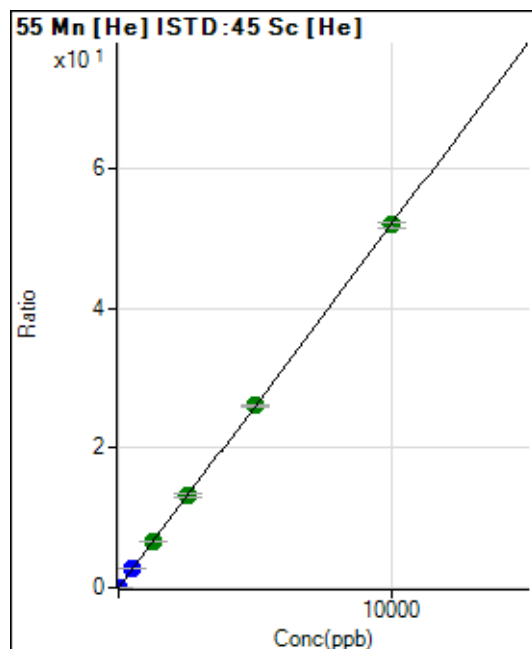
$$R = 0.9999$$

$$DL = 3.972$$

$$BEC = 16.22$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	193.34	0.0005	P	18.7
2	☐	1.000	1.048	2130.17	0.0060	P	2.2
3	☐	500.000	536.147	980804.78	2.7867	P	1.1
4	☐	1250.000	1269.472	2377808.87	6.5975	A	1.8
5	☐	2500.000	2532.310	4464113.58	13.1599	A	3.7
6	☐	5000.000	5012.891	8832723.76	26.0506	A	1.5
7	☐	10000.000	9981.236	17475926.27	51.8691	A	1.7
8	☐			11591.22	0.0362	P	0.9

$$y = 0.0052 * x + 5.2562E-004$$

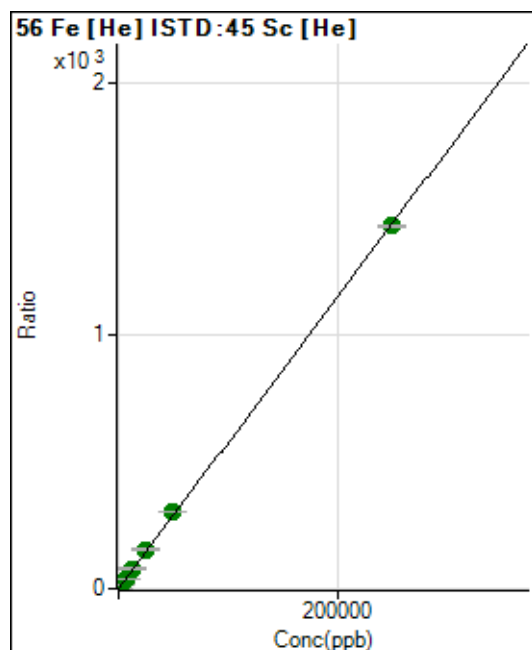
$$R = 1.0000$$

$$DL = 0.05681$$

$$BEC = 0.1011$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	15086.56	0.0410	P	2.4
2	☐	50.000	55.506	128484.69	0.3601	P	0.2
3	☐	2500.000	2755.456	5589989.22	15.8821	A	0.9
4	☐	6250.000	6845.081	14198021.32	39.3932	A	2.5
5	☐	12500.000	13773.273	26876319.32	79.2232	A	3.4
6	☐	25000.000	27009.400	52666559.22	155.3173	A	0.9
7	☐	50000.000	52743.545	102179181.8	303.2622	A	1.4
8	☐	250000.00	249169.25	458113650.9	1432.508	A	0.4

$$y = 0.0057 * x + 0.0410$$

$$R = 0.9999$$

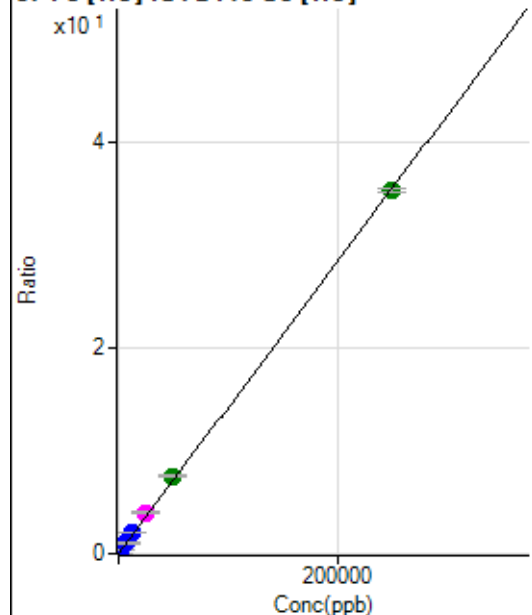
$$DL = 0.5199$$

$$BEC = 7.139$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	733.36	0.0020	P	10.3
2	☐	50.000	59.289	3709.39	0.0104	P	1.2
3	☐	2500.000	2972.304	148952.66	0.4232	P	0.9
4	☐	6250.000	7243.662	370678.48	1.0285	P	1.2
5	☐	12500.000	14683.978	706607.20	2.0829	P	3.3
6	☐	25000.000	27957.069	1343671.07	3.9638	M	3.2
7	☐	50000.000	53378.909	2549400.10	7.5663	A	1.1
8	☐	250000.00	248889.74	11279715.67	35.2720	A	0.9

$$y = 1.4171\text{E-}004 * x + 0.0020$$

$$R = 0.9999$$

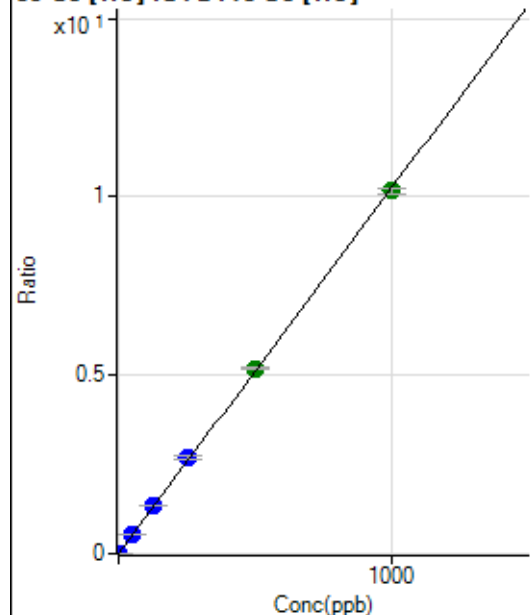
$$DL = 4.346$$

$$BEC = 14.08$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	65.56	0.0002	P	25.7
2	☐	1.000	1.073	3982.80	0.0112	P	2.1
3	☐	50.000	53.529	192991.57	0.5483	P	1.1
4	☐	125.000	130.953	483379.49	1.3412	P	1.4
5	☐	250.000	263.638	916022.76	2.6999	P	2.9
6	☐	500.000	506.122	1757366.12	5.1830	A	1.0
7	☐	1000.000	992.609	3424877.56	10.1648	A	1.7
8	☐			8981.66	0.0281	P	2.8

$$y = 0.0102 * x + 1.7821\text{E-}004$$

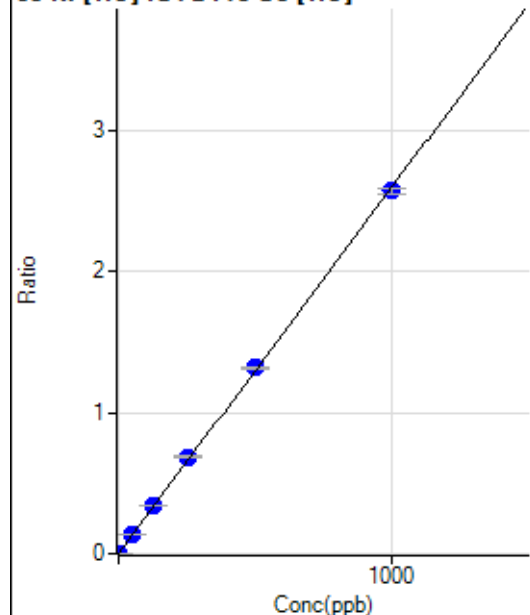
$$R = 0.9999$$

$$DL = 0.01341$$

$$BEC = 0.0174$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	275.56	0.0007	P	7.0
2	☐	1.000	1.165	1344.52	0.0038	P	3.1
3	☐	50.000	54.520	49985.29	0.1420	P	1.3
4	☐	125.000	130.905	122520.13	0.3399	P	2.0
5	☐	250.000	264.903	233113.84	0.6871	P	3.3
6	☐	500.000	508.084	446629.68	1.3173	P	1.0
7	☐	1000.000	991.268	865686.25	2.5693	P	1.4
8	☐			4409.58	0.0138	P	4.8

$$y = 0.0026 * x + 7.4967E-004$$

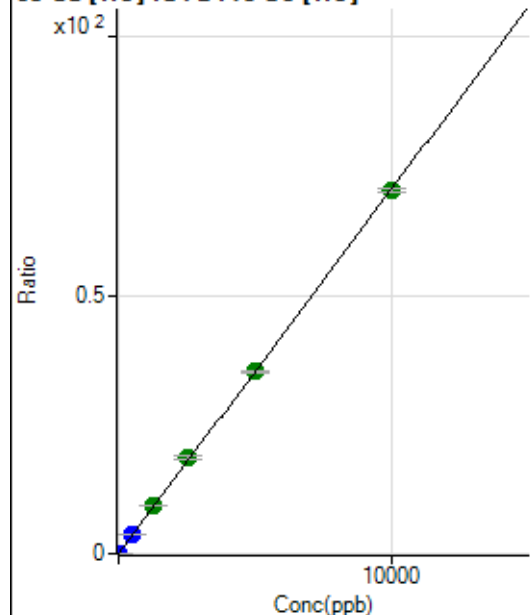
$$R = 0.9998$$

$$DL = 0.06108$$

$$BEC = 0.2893$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1145.61	0.0031	P	3.1
2	☐	2.000	2.079	6346.96	0.0178	P	3.5
3	☐	500.000	544.428	1353357.15	3.8452	P	1.0
4	☐	1250.000	1332.912	3391291.13	9.4095	A	1.2
5	☐	2500.000	2637.365	6314021.85	18.6150	A	4.3
6	☐	5000.000	5000.546	11965949.13	35.2920	A	1.1
7	☐	10000.000	9952.800	23667948.54	70.2401	A	0.9
8	☐			6840.51	0.0214	P	3.1

$$y = 0.0071 * x + 0.0031$$

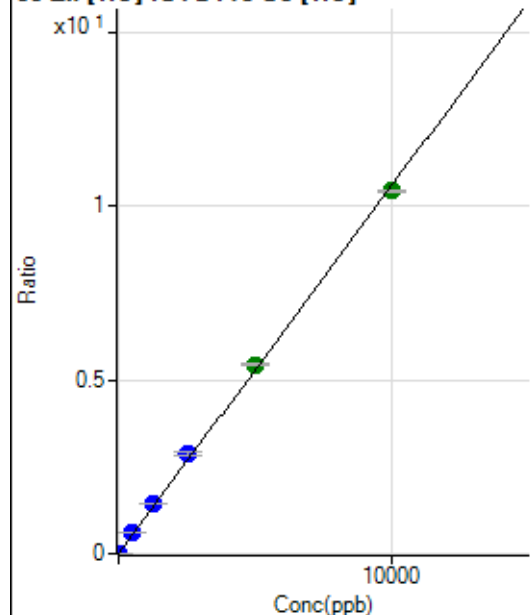
$$R = 0.9999$$

$$DL = 0.0417$$

$$BEC = 0.4417$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	213.34	0.0006	P	8.7
2	☐	2.000	2.165	1024.49	0.0029	P	10.6
3	☐	500.000	556.646	207592.52	0.5898	P	0.9
4	☐	1250.000	1364.063	520613.43	1.4445	P	0.9
5	☐	2500.000	2708.793	972885.95	2.8679	P	3.7
6	☐	5000.000	5131.559	1841934.05	5.4325	A	1.2
7	☐	10000.000	9864.932	3518797.14	10.4430	A	0.7
8	☐			6749.37	0.0211	P	1.6

$$y = 0.0011 * x + 5.8034E-004$$

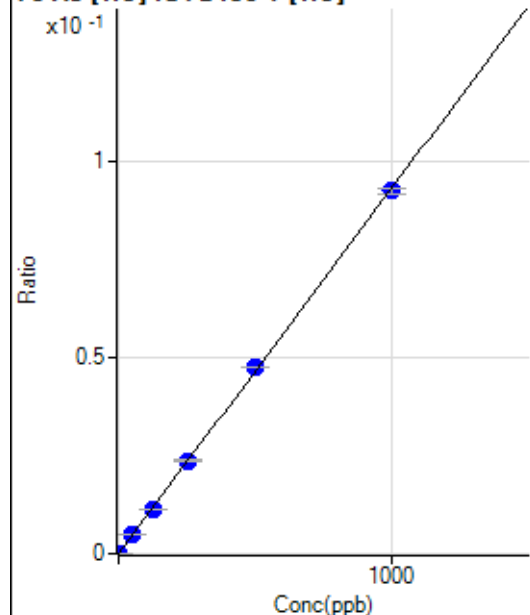
$$R = 0.9996$$

$$DL = 0.1429$$

$$BEC = 0.5482$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	2.22	0.0000	P	86.6
2	☐	1.000	1.045	275.56	0.0001	P	2.0
3	☐	50.000	50.533	13031.39	0.0047	P	1.5
4	☐	125.000	121.886	33555.73	0.0113	P	1.5
5	☐	250.000	255.297	61723.70	0.0237	P	3.4
6	☐	500.000	511.024	121235.48	0.0475	P	0.8
7	☐	1000.000	993.527	239935.64	0.0923	P	1.3
8	☐			98.89	0.0000	P	27.1

$$y = 9.2906E-005 * x + 7.1877E-007$$

$$R = 0.9999$$

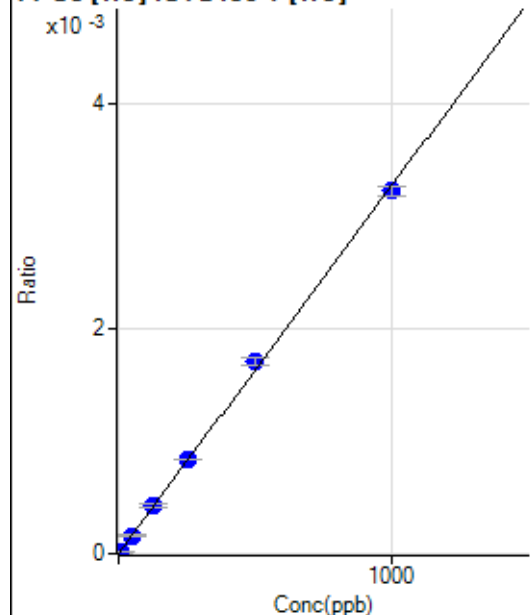
$$DL = 0.0201$$

$$BEC = 0.007737$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1.11	0.0000	P	173.
2	☐	5.000	5.540	52.22	0.0000	P	25.5
3	☐	50.000	48.583	442.23	0.0002	P	5.3
4	☐	125.000	128.194	1244.51	0.0004	P	8.1
5	☐	250.000	255.225	2175.74	0.0008	P	1.2
6	☐	500.000	523.400	4372.91	0.0017	P	3.8
7	☐	1000.000	986.663	8392.46	0.0032	P	2.8
8	☐			43.33	0.0000	P	19.8

$$y = 3.2721\text{E-}006 * x + 3.6440\text{E-}007$$

$$R = 0.9996$$

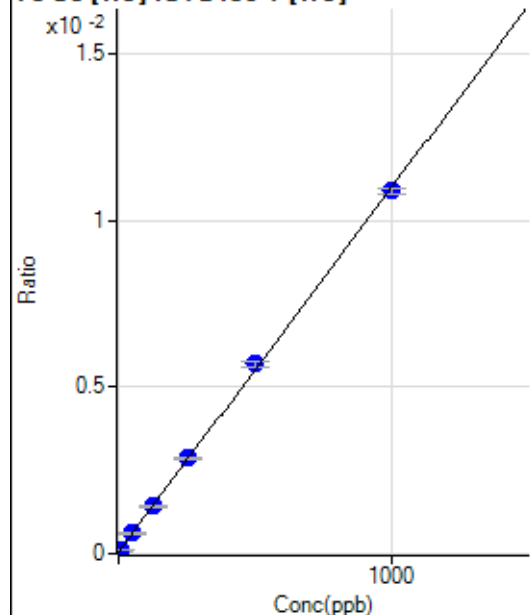
$$DL = 0.5787$$

$$BEC = 0.1114$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	191.11	0.0001	P	9.2
2	☐	5.000	6.015	361.12	0.0001	P	16.5
3	☐	50.000	49.829	1684.56	0.0006	P	3.4
4	☐	125.000	124.561	4219.53	0.0014	P	1.6
5	☐	250.000	256.692	7466.41	0.0029	P	2.9
6	☐	500.000	514.824	14533.96	0.0057	P	2.1
7	☐	1000.000	990.973	28328.37	0.0109	P	1.2
8	☐			335.56	0.0001	P	20.2

$$y = 1.0934\text{E-}005 * x + 6.2134\text{E-}005$$

$$R = 0.9998$$

$$DL = 1.573$$

$$BEC = 5.682$$

Weight: <None>

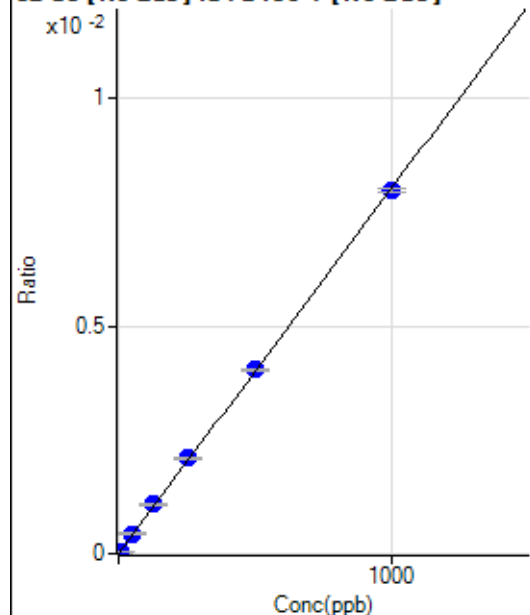
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			58328.82		P	7.1
2	☐			57114.89		P	1.4
3	☐			55689.68		P	1.5
4	☐			56548.33		P	1.0
5	☐			52414.28		P	1.6
6	☐			51872.43		P	1.0
7	☐			53202.50		P	0.4
8	☐			53403.17		P	1.8

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			106.67		P	21.9
2	☐			64.44		P	3.0
3	☐			66.67		P	21.8
4	☐			86.67		P	17.6
5	☐			61.11		P	25.8
6	☐			66.67		P	26.5
7	☐			68.89		P	12.2
8	☐			331.12		P	7.3

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	10.58	0.0000	P	169.
2	☐	5.000	5.154	525.78	0.0000	P	10.1
3	☐	50.000	54.419	5436.68	0.0004	P	4.2
4	☐	125.000	136.169	13417.66	0.0011	P	4.1
5	☐	250.000	262.748	25585.21	0.0021	P	1.9
6	☐	500.000	503.941	48218.43	0.0040	P	1.3
7	☐	1000.000	993.225	94104.97	0.0080	P	0.9
8	☐			598.91	0.0001	P	10.3

$$y = 8.0193\text{E-}006 * x + 8.7218\text{E-}007$$

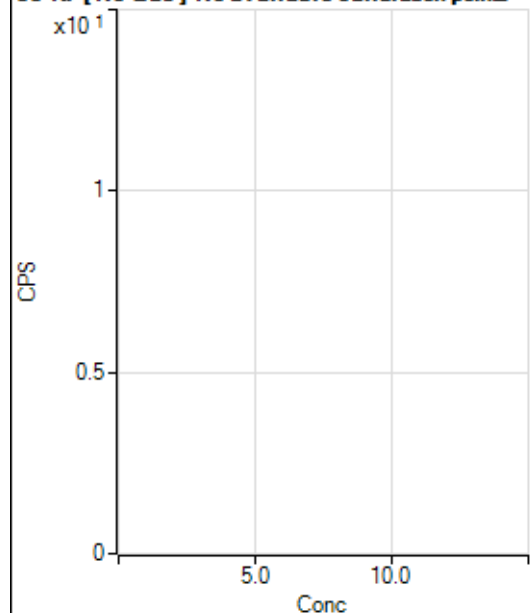
R = 0.9999

DL = 0.5513

BEC = 0.1088

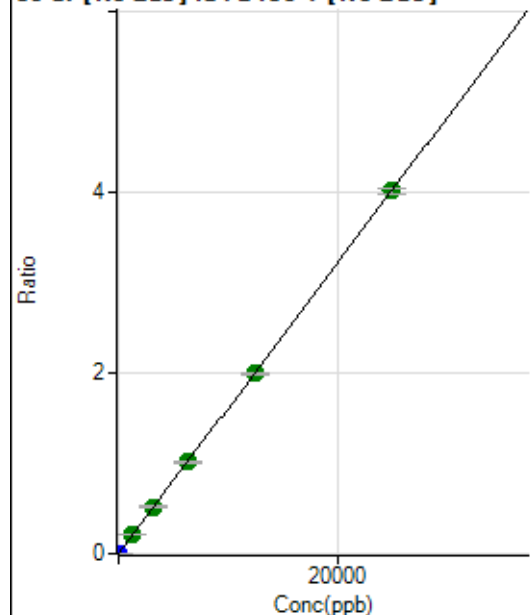
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			98.89		P	13.6
2	☐			91.11		P	54.8
3	☐			91.11		P	5.6
4	☐			92.22		P	22.1
5	☐			117.78		P	11.4
6	☐			103.34		P	20.1
7	☐			94.44		P	23.0
8	☐			123.34		P	16.9

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	166.67	0.0000	P	12.7
2	☐	1.000	0.981	2129.06	0.0002	P	1.2
3	☐	1250.000	1273.523	2545611.82	0.2046	A	0.8
4	☐	3125.000	3227.760	6367677.96	0.5186	A	4.1
5	☐	6250.000	6308.482	12303545.23	1.0136	A	1.3
6	☐	12500.000	12422.173	23810043.81	1.9960	A	0.9
7	☐	25000.000	25010.272	47473695.40	4.0186	A	1.5
8	☐			7343.10	0.0007	P	26.2

$$y = 1.6068\text{E-}004 * x + 1.3060\text{E-}005$$

$$R = 1.0000$$

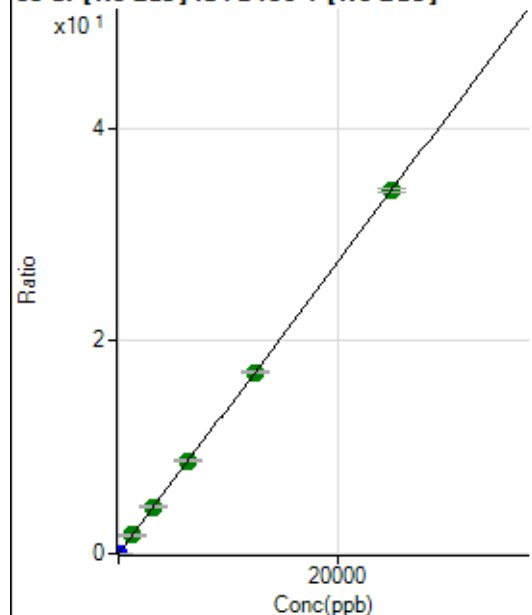
$$DL = 0.03102$$

$$BEC = 0.08128$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	186.67	0.0000	P	16.3
2	☐	1.000	0.989	17044.43	0.0014	P	2.5
3	☐	1250.000	1263.632	21477938.29	1.7267	A	1.4
4	☐	3125.000	3235.722	54286053.08	4.4216	A	4.2
5	☐	6250.000	6406.363	106257355.0	8.7542	A	1.2
6	☐	12500.000	12473.951	203336719.1	17.0455	A	1.0
7	☐	25000.000	24959.412	402913825.1	34.1067	A	1.0
8	☐			61078.24	0.0055	P	24.1

$$y = 0.0014 * x + 1.4607\text{E-}005$$

$$R = 1.0000$$

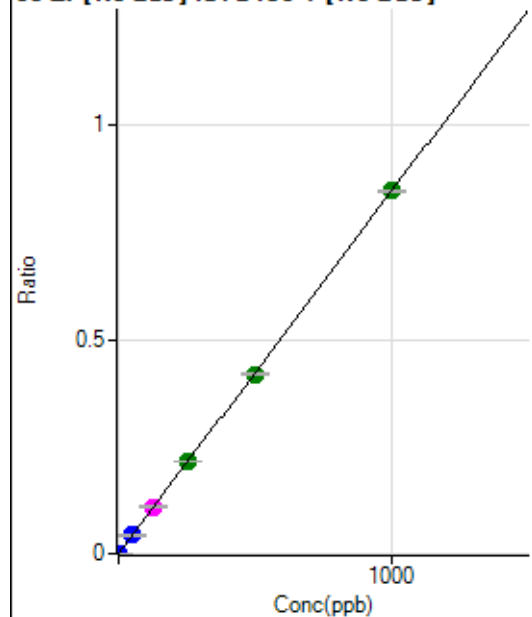
$$DL = 0.005216$$

$$BEC = 0.01069$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	420.01	0.0000	P	4.3
2	☐	1.000	0.895	9860.07	0.0008	P	4.6
3	☐	50.000	50.663	533607.93	0.0429	P	2.9
4	☐	125.000	128.837	1339155.95	0.1091	M	4.2
5	☐	250.000	253.570	2605103.68	0.2146	A	0.5
6	☐	500.000	495.009	4997963.01	0.4190	A	1.1
7	☐	1000.000	1001.091	10009238.11	0.8473	A	0.6
8	☐			4511.86	0.0004	P	11.7

$$y = 8.4633\text{E-}004 * x + 3.2841\text{E-}005$$

$$R = 1.0000$$

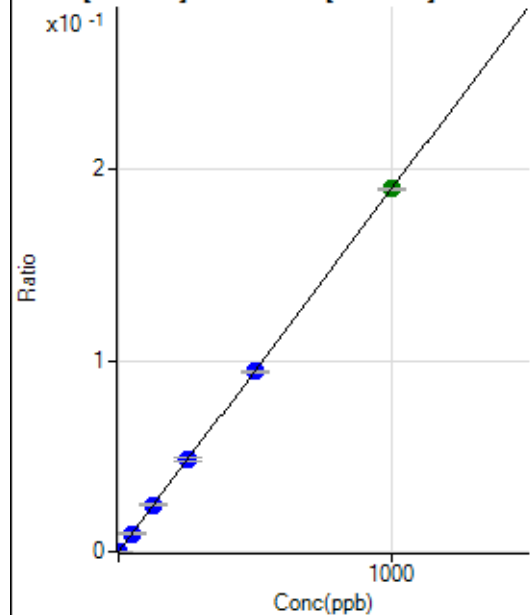
$$DL = 0.004979$$

$$BEC = 0.0388$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	82.22	0.0000	P	9.9
2	☐	1.000	0.887	2177.96	0.0002	P	5.4
3	☐	50.000	49.895	117736.92	0.0095	P	2.1
4	☐	125.000	128.374	299071.18	0.0243	P	2.7
5	☐	250.000	254.252	585081.06	0.0482	P	2.3
6	☐	500.000	496.278	1122557.87	0.0941	P	1.3
7	☐	1000.000	1000.382	2240838.42	0.1897	A	0.3
8	☐			1045.60	0.0001	P	3.8

$$y = 1.8961\text{E-}004 * x + 6.4611\text{E-}006$$

$$R = 1.0000$$

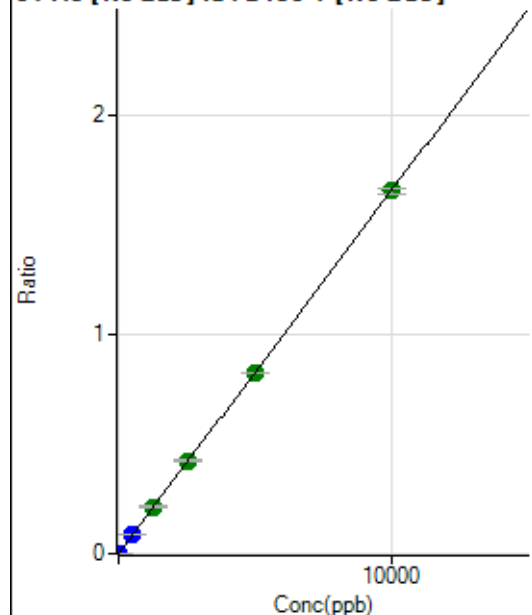
$$DL = 0.01016$$

$$BEC = 0.03408$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	154.45	0.0000	P	16.1
2	☐	5.000	5.515	11526.86	0.0009	P	3.6
3	☐	500.000	512.895	1055169.94	0.0848	P	2.2
4	☐	1250.000	1287.766	2616160.40	0.2130	A	3.1
5	☐	2500.000	2548.471	5115092.70	0.4215	A	2.5
6	☐	5000.000	4980.202	9826427.63	0.8237	A	0.5
7	☐	10000.000	9992.416	19523830.26	1.6527	A	1.3
8	☐			6077.99	0.0006	P	12.4

$$y = 1.6539\text{E-}004 * x + 1.2179\text{E-}005$$

$$R = 1.0000$$

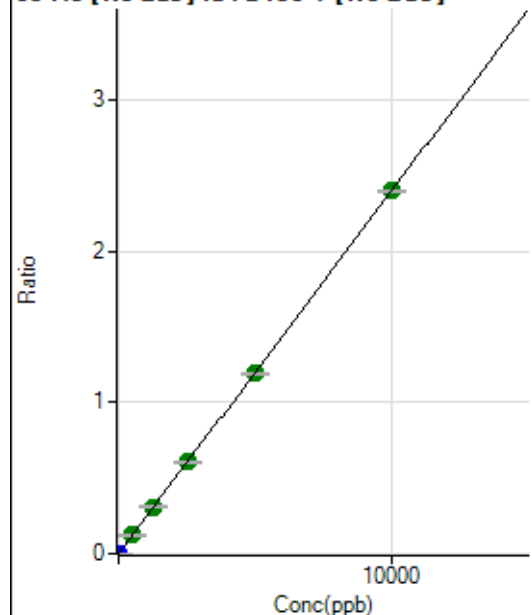
$$DL = 0.03549$$

$$BEC = 0.07364$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	52.22	0.0000	P	46.3
2	☐	5.000	4.835	14528.44	0.0012	P	1.4
3	☐	500.000	509.540	1521077.72	0.1223	A	2.6
4	☐	1250.000	1286.051	3790821.23	0.3087	A	3.6
5	☐	2500.000	2524.975	7355684.34	0.6061	A	1.1
6	☐	5000.000	4974.711	14244756.32	1.1941	A	0.9
7	☐	10000.000	10001.417	28360211.80	2.4007	A	0.9
8	☐			7338.59	0.0007	P	11.5

$$y = 2.4004\text{E-}004 * x + 4.0858\text{E-}006$$

$$R = 1.0000$$

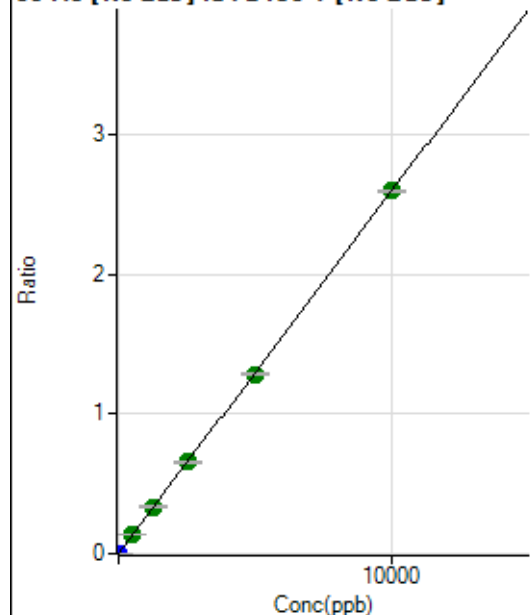
$$DL = 0.02366$$

$$BEC = 0.01702$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	154.45	0.0000	P	19.8
2	☐	5.000	4.789	15642.89	0.0013	P	2.2
3	☐	500.000	511.201	1648949.42	0.1326	A	2.4
4	☐	1250.000	1296.437	4128104.77	0.3362	A	4.2
5	☐	2500.000	2532.924	7971259.05	0.6569	A	2.1
6	☐	5000.000	4953.639	15325224.49	1.2847	A	1.4
7	☐	10000.000	10008.585	30663622.04	2.5957	A	0.9
8	☐			18497.43	0.0017	P	5.0

$$y = 2.5935E-004 * x + 1.2104E-005$$

$$R = 1.0000$$

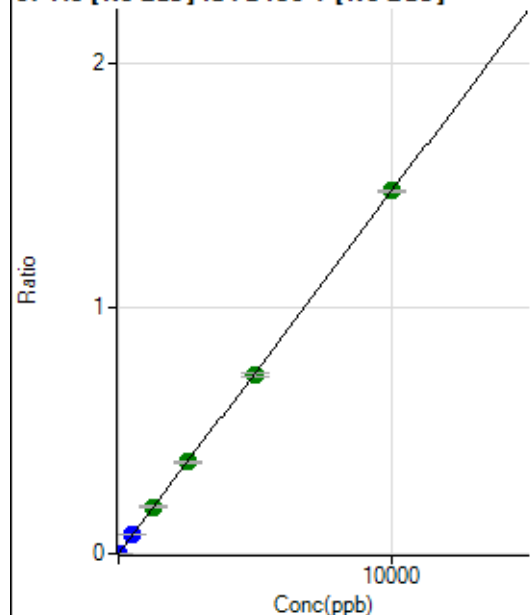
$$DL = 0.02766$$

$$BEC = 0.04667$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	54.45	0.0000	P	0.5
2	☐	5.000	4.849	8990.64	0.0007	P	1.2
3	☐	500.000	513.622	943732.66	0.0759	P	2.8
4	☐	1250.000	1293.953	2347572.46	0.1912	A	3.7
5	☐	2500.000	2533.172	4541129.17	0.3743	A	2.2
6	☐	5000.000	4945.159	8715505.01	0.7306	A	1.7
7	☐	10000.000	10012.952	17476367.10	1.4794	A	0.6
8	☐			4268.45	0.0004	P	12.9

$$y = 1.4774E-004 * x + 4.2624E-006$$

$$R = 1.0000$$

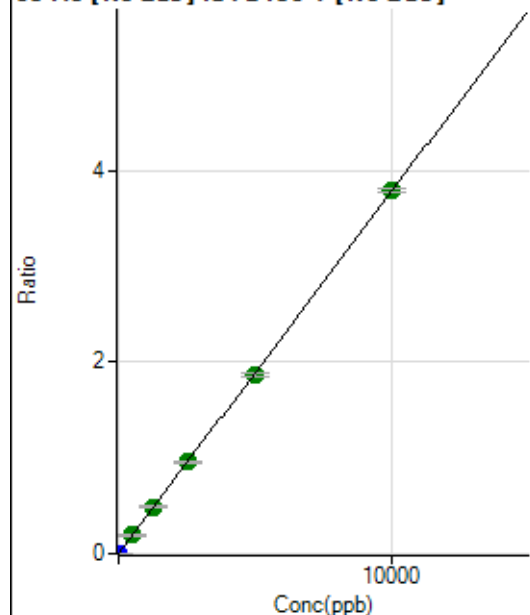
$$DL = 0.0003978$$

$$BEC = 0.02885$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	92.22	0.0000	P	13.9
2	☐	5.000	4.819	22785.65	0.0018	P	3.0
3	☐	500.000	510.580	2397808.21	0.1928	A	2.7
4	☐	1250.000	1288.834	5978037.27	0.4867	A	2.9
5	☐	2500.000	2534.711	11615742.53	0.9572	A	2.3
6	☐	5000.000	4936.098	22236570.78	1.8640	A	1.8
7	☐	10000.000	10017.890	44688308.78	3.7830	A	1.0
8	☐			10151.51	0.0009	P	19.9

$$y = 3.7762\text{E-}004 * x + 7.2144\text{E-}006$$

$$R = 1.0000$$

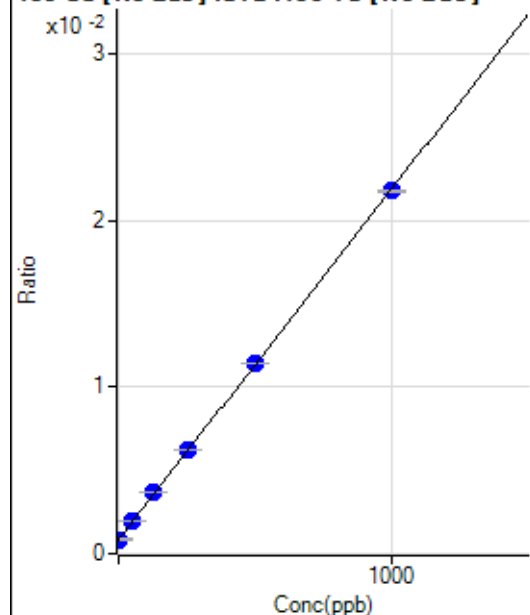
$$DL = 0.007984$$

$$BEC = 0.0191$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6977.30	0.0008	P	1.4
2	☐	1.000	0.701	7034.00	0.0009	P	2.9
3	☐	50.000	51.847	15703.06	0.0019	P	1.4
4	☐	125.000	135.149	29729.50	0.0037	P	1.4
5	☐	250.000	256.277	49936.95	0.0062	P	1.2
6	☐	500.000	503.709	89148.63	0.0114	P	0.8
7	☐	1000.000	995.216	165994.02	0.0217	P	0.8
8	☐			6283.65	0.0009	P	3.8

$$y = 2.1009\text{E-}005 * x + 8.4006\text{E-}004$$

$$R = 0.9999$$

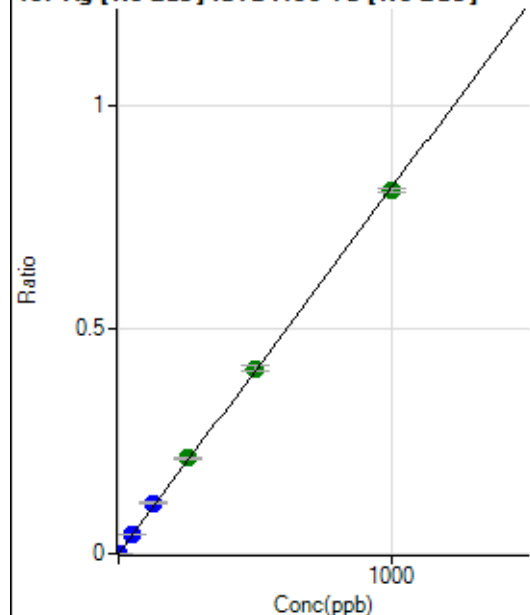
$$DL = 1.637$$

$$BEC = 39.99$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	80.00	0.0000	P	25.2
2	☐	1.000	1.014	6875.02	0.0008	P	1.3
3	☐	50.000	54.289	360116.43	0.0442	P	1.8
4	☐	125.000	137.946	907558.32	0.1124	P	3.5
5	☐	250.000	261.095	1707037.70	0.2128	A	2.0
6	☐	500.000	507.238	3225812.14	0.4133	A	2.3
7	☐	1000.000	991.775	6168094.21	0.8081	A	1.1
8	☐			1573.44	0.0002	P	17.3

$$y = 8.1483\text{E-}004 * x + 9.5852\text{E-}006$$

$$R = 0.9998$$

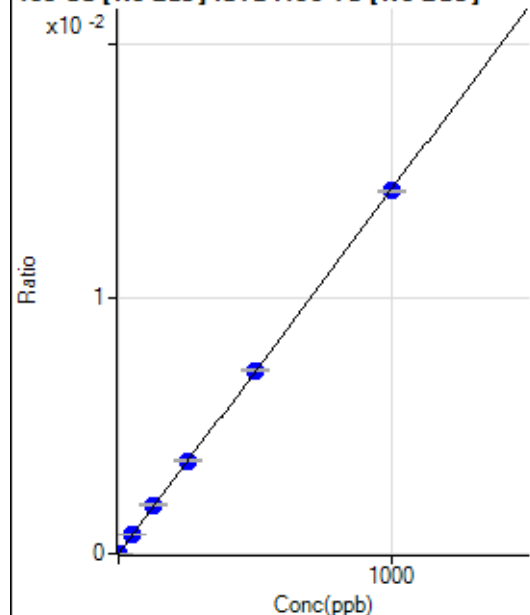
$$DL = 0.00889$$

$$BEC = 0.01176$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	18.89	0.0000	P	34.7
2	☐	1.000	0.843	117.78	0.0000	P	15.1
3	☐	50.000	53.303	6214.72	0.0008	P	1.9
4	☐	125.000	132.984	15357.13	0.0019	P	3.8
5	☐	250.000	255.059	29246.40	0.0036	P	2.8
6	☐	500.000	502.885	56072.48	0.0072	P	1.3
7	☐	1000.000	996.130	108605.95	0.0142	P	0.5
8	☐			82.22	0.0000	P	33.0

$$y = 1.4283\text{E-}005 * x + 2.2758\text{E-}006$$

$$R = 1.0000$$

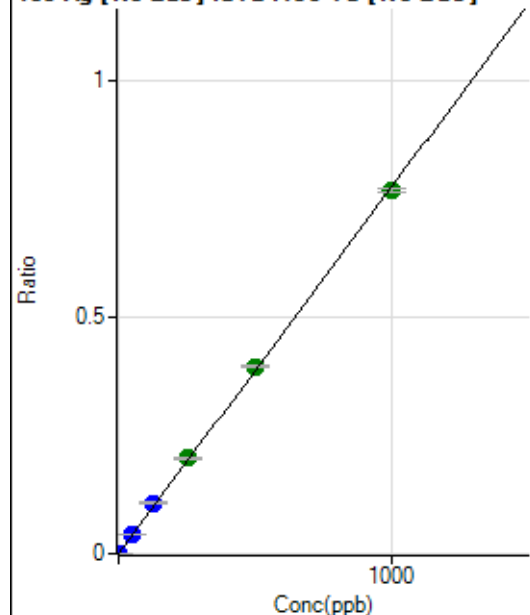
$$DL = 0.1658$$

$$BEC = 0.1593$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	24.44	0.0000	P	53.9
2	☐	1.000	1.039	6636.04	0.0008	P	0.8
3	☐	50.000	54.520	343166.59	0.0422	P	1.1
4	☐	125.000	138.525	864715.69	0.1071	P	3.9
5	☐	250.000	260.000	1612853.57	0.2011	A	1.4
6	☐	500.000	511.394	3086110.65	0.3954	A	1.5
7	☐	1000.000	989.886	5842267.10	0.7655	A	0.9
8	☐			1464.54	0.0002	P	19.6

$$y = 7.7327E-004 * x + 2.9999E-006$$

$$R = 0.9998$$

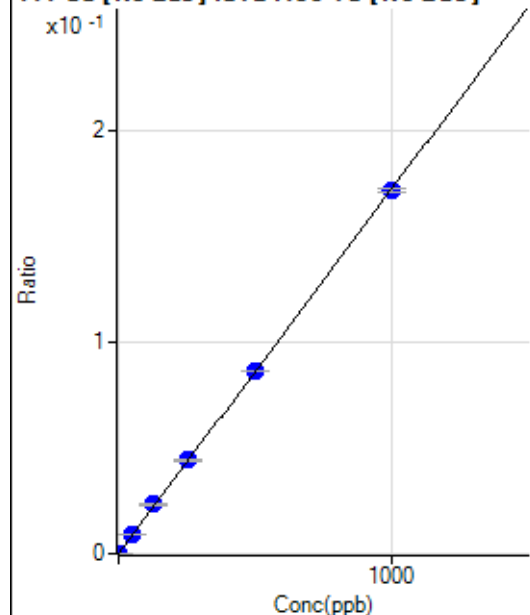
$$DL = 0.006271$$

$$BEC = 0.00388$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	-260.31	0.0000	P	-1.7
2	☐	1.000	1.024	1191.16	0.0001	P	1.9
3	☐	50.000	52.998	73953.32	0.0091	P	2.5
4	☐	125.000	135.710	188292.37	0.0233	P	2.9
5	☐	250.000	257.968	355811.97	0.0444	P	1.6
6	☐	500.000	501.364	672986.04	0.0862	P	0.2
7	☐	1000.000	995.837	1307435.75	0.1713	P	1.0
8	☐			319.56	0.0000	P	19.7

$$y = 1.7205E-004 * x - 3.1329E-005$$

$$R = 0.9999$$

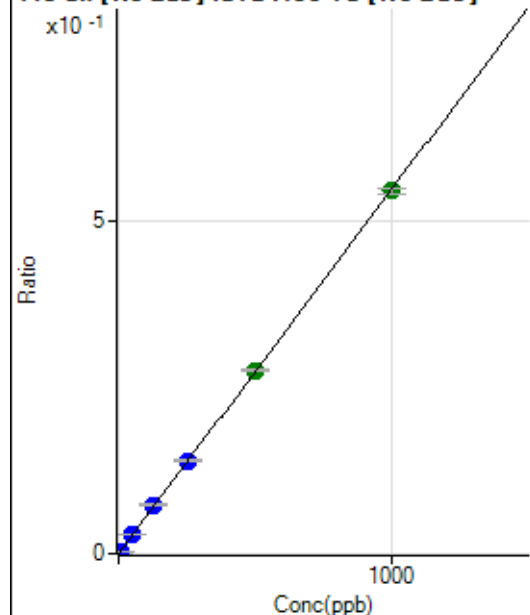
$$DL = 0.009049$$

$$BEC = -0.1821$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	636.69	0.0001	P	2.1
2	☐	5.000	4.938	22837.19	0.0028	P	3.0
3	☐	50.000	51.419	229386.56	0.0282	P	2.1
4	☐	125.000	132.812	586678.82	0.0727	P	3.9
5	☐	250.000	255.347	1120369.67	0.1397	P	1.5
6	☐	500.000	502.414	2143984.05	0.2747	A	0.9
7	☐	1000.000	996.409	4157893.27	0.5448	A	1.8
8	☐			2693.61	0.0004	P	8.5

$$y = 5.4664\text{E-}004 * x + 7.6590\text{E-}005$$

$$R = 1.0000$$

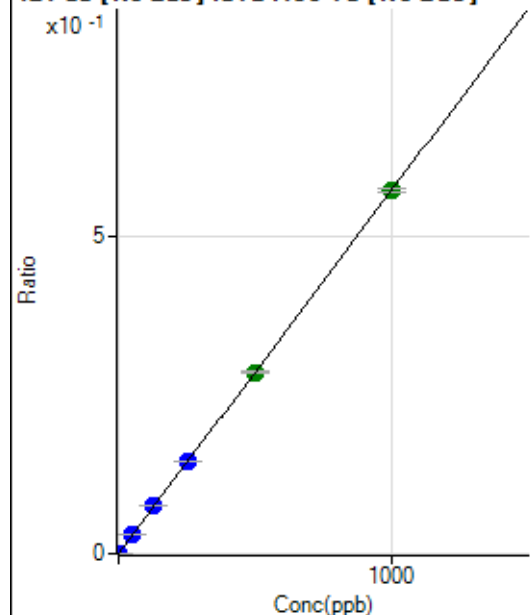
$$DL = 0.008833$$

$$BEC = 0.1401$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	30.00	0.0000	P	33.6
2	☐	2.000	1.925	9119.63	0.0011	P	3.9
3	☐	50.000	50.889	237764.87	0.0292	P	1.8
4	☐	125.000	131.813	611070.08	0.0757	P	2.6
5	☐	250.000	253.389	1166864.86	0.1454	P	1.0
6	☐	500.000	499.181	2236306.16	0.2865	A	0.4
7	☐	1000.000	998.666	4375033.79	0.5732	A	1.1
8	☐			3143.71	0.0004	P	2.4

$$y = 5.7398\text{E-}004 * x + 3.5423\text{E-}006$$

$$R = 1.0000$$

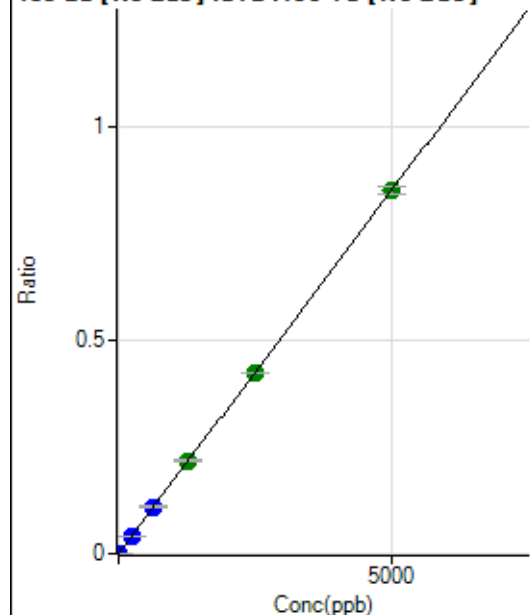
$$DL = 0.006225$$

$$BEC = 0.006171$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	16.67	0.0000	P	28.1
2	☐	10.000	9.483	13271.87	0.0016	P	2.4
3	☐	250.000	246.965	341550.64	0.0420	P	1.8
4	☐	625.000	639.699	877681.25	0.1087	P	3.2
5	☐	1250.000	1273.689	1736570.75	0.2164	A	1.9
6	☐	2500.000	2491.853	3304462.28	0.4234	A	0.6
7	☐	5000.000	4996.466	6479961.85	0.8490	A	2.0
8	☐			3602.72	0.0005	P	2.7

$$y = 1.6991\text{E-}004 * x + 1.9740\text{E-}006$$

$$R = 1.0000$$

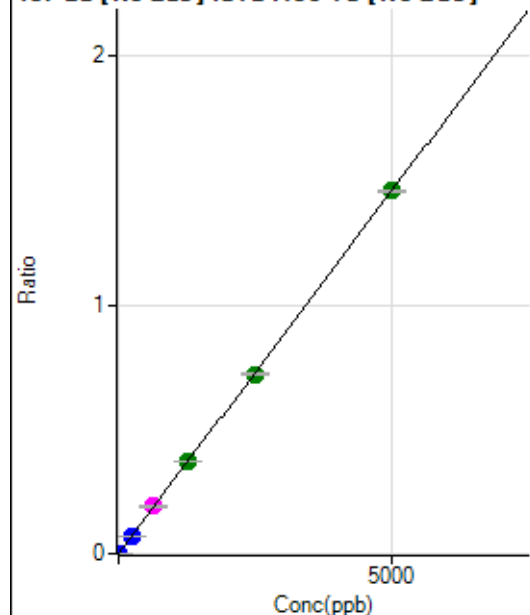
$$DL = 0.00979$$

$$BEC = 0.01162$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	22.22	0.0000	P	24.8
2	☐	10.000	9.474	22742.72	0.0028	P	1.7
3	☐	250.000	249.141	591157.62	0.0726	P	1.3
4	☐	625.000	654.369	1540874.35	0.1908	M	2.2
5	☐	1250.000	1266.065	2961388.74	0.3691	A	0.9
6	☐	2500.000	2477.345	5635980.13	0.7222	A	1.6
7	☐	5000.000	5003.684	11133017.47	1.4586	A	0.9
8	☐			6251.44	0.0009	P	4.0

$$y = 2.9151\text{E-}004 * x + 2.6491\text{E-}006$$

$$R = 1.0000$$

$$DL = 0.006762$$

$$BEC = 0.009087$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6.67		P	86.6
2	☐			6.67		P	50.0
3	☐			93.33		P	3.6
4	☐			263.34		P	4.4
5	☐			457.79		P	8.1
6	☐			890.04		P	0.7
7	☐			1666.78		P	5.4
8	☐			215.56		P	26.3

150 Nd [He] No available calibration points

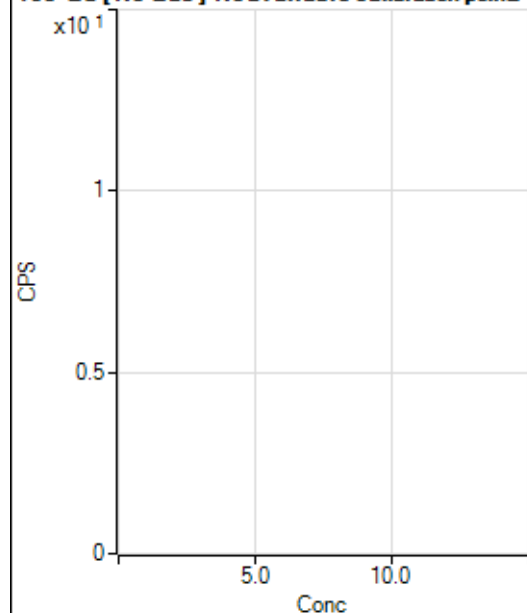
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.
2	☐			2.22		P	86.6
3	☐			16.67		P	40.0
4	☐			65.56		P	23.5
5	☐			77.78		P	13.1
6	☐			162.23		P	7.8
7	☐			343.34		P	5.4
8	☐			118.89		P	11.3

156 Dy [No Gas] No available calibration points

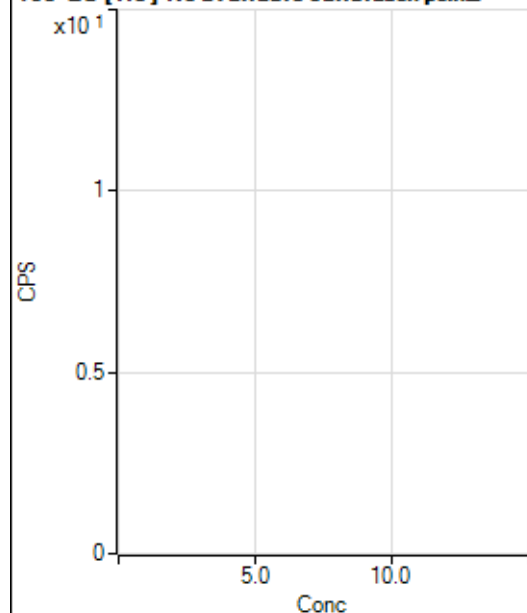
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.56		P	173.
2	☐			8.89		P	57.3
3	☐			37.78		P	5.1
4	☐			64.45		P	10.8
5	☐			138.89		P	16.9
6	☐			257.78		P	8.3
7	☐			536.68		P	16.9
8	☐			1116.73		P	2.9

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			11.11		P	62.5
2	☐			7.78		P	24.7
3	☐			28.89		P	54.5
4	☐			64.45		P	24.4
5	☐			132.22		P	8.1
6	☐			261.12		P	21.1
7	☐			487.79		P	5.2
8	☐			744.47		P	8.9

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			52.22		P	14.7
2	☐			47.78		P	22.4
3	☐			61.11		P	22.7
4	☐			75.56		P	15.5
5	☐			143.34		P	14.1
6	☐			192.23		P	2.6
7	☐			396.68		P	14.7
8	☐			1266.74		P	4.9

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			338.90		P	20.2
2	☐			272.23		P	9.9
3	☐			328.90		P	3.1
4	☐			320.01		P	13.8
5	☐			304.45		P	10.2
6	☐			385.57		P	2.2
7	☐			460.01		P	2.5
8	☐			1088.94		P	10.3

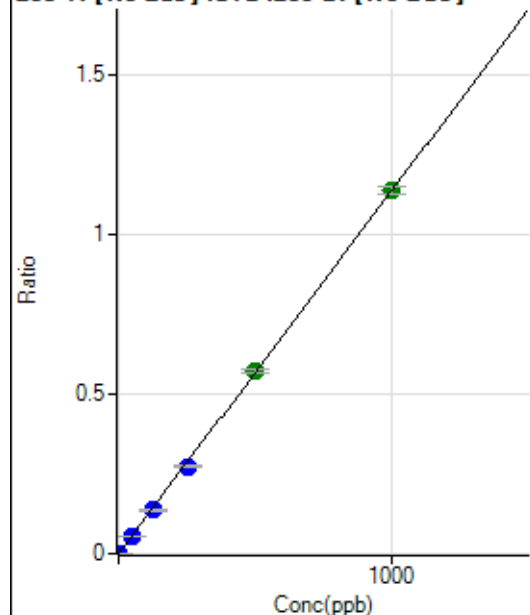
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			80.00		P	8.3
2	☐			61.11		P	13.7
3	☐			57.78		P	16.6
4	☐			67.78		P	17.3
5	☐			98.89		P	10.8
6	☐			124.45		P	10.8
7	☐			167.78		P	15.2
8	☐			205.56		P	6.6

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			48.89		P	20.8
2	☐			40.00		P	50.7
3	☐			51.11		P	18.8
4	☐			50.00		P	34.6
5	☐			42.22		P	24.1
6	☐			70.00		P	21.8
7	☐			95.56		P	41.9
8	☐			127.78		P	9.2

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	95.56	0.0000	P	29.2
2	☐	1.000	0.898	5905.78	0.0010	P	1.8
3	☐	50.000	46.741	303282.11	0.0530	P	0.9
4	☐	125.000	120.725	762975.04	0.1370	P	3.5
5	☐	250.000	239.575	1513941.28	0.2718	P	2.2
6	☐	500.000	505.754	3130661.69	0.5737	A	1.9
7	☐	1000.000	1000.426	5984523.17	1.1348	A	2.0
8	☐			807.81	0.0002	P	22.7

$$y = 0.0011 * x + 1.7103E-005$$

$$R = 0.9999$$

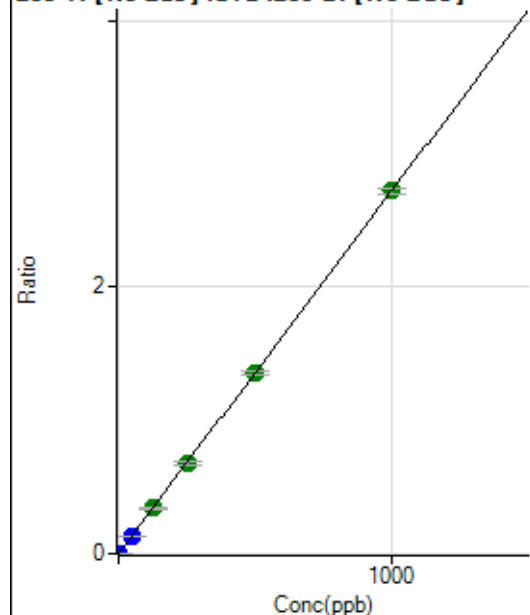
$$DL = 0.0132$$

$$BEC = 0.01508$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	222.23	0.0000	P	18.3
2	☐	1.000	0.889	14005.10	0.0025	P	3.7
3	☐	50.000	46.276	719280.77	0.1258	P	1.0
4	☐	125.000	126.042	1908109.99	0.3425	A	3.7
5	☐	250.000	249.784	3781252.83	0.6788	A	2.5
6	☐	500.000	497.753	7381014.47	1.3525	A	1.7
7	☐	1000.000	1001.234	14347986.17	2.7206	A	1.3
8	☐			1881.27	0.0004	P	29.1

$$y = 0.0027 * x + 3.9360E-005$$

$$R = 1.0000$$

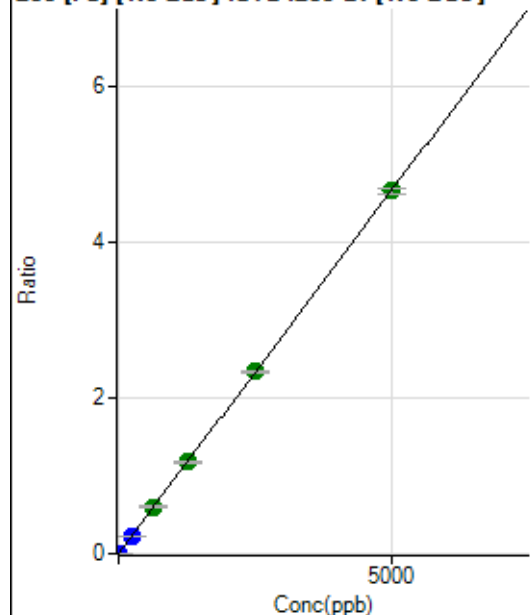
$$DL = 0.007965$$

$$BEC = 0.01449$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	194.45	0.0000	P	9.8
2	☐	1.000	0.920	5089.88	0.0009	P	5.1
3	☐	250.000	234.919	1253101.43	0.2191	P	1.3
4	☐	625.000	639.600	3322569.46	0.5966	A	4.6
5	☐	1250.000	1258.007	6536780.74	1.1733	A	1.8
6	☐	2500.000	2503.401	12741189.53	2.3349	A	2.0
7	☐	5000.000	4995.227	24569620.19	4.6589	A	1.7
8	☐			9564.58	0.0021	P	9.4

$$y = 9.3267\text{E-}004 * x + 3.4576\text{E-}005$$

$$R = 1.0000$$

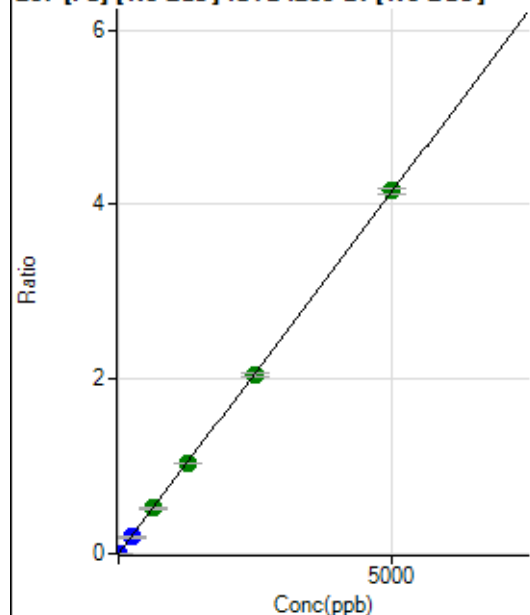
$$DL = 0.01088$$

$$BEC = 0.03707$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	168.89	0.0000	P	10.0
2	☐	1.000	0.887	4366.29	0.0008	P	3.1
3	☐	250.000	226.919	1075277.46	0.1880	P	1.0
4	☐	625.000	626.346	2890810.13	0.5190	A	4.1
5	☐	1250.000	1249.205	5766753.74	1.0350	A	1.5
6	☐	2500.000	2466.526	11151574.55	2.0436	A	2.4
7	☐	5000.000	5017.922	21924931.62	4.1575	A	1.8
8	☐			8008.00	0.0018	P	9.0

$$y = 8.2852\text{E-}004 * x + 3.0083\text{E-}005$$

$$R = 1.0000$$

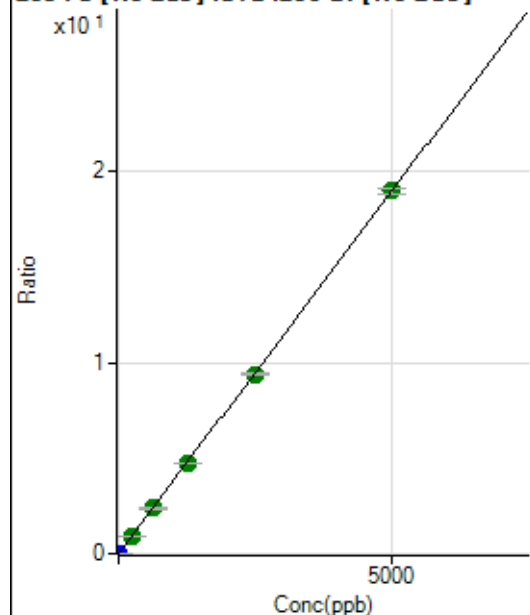
$$DL = 0.01087$$

$$BEC = 0.03631$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	766.68	0.0001	P	5.7
2	☐	1.000	0.884	19882.49	0.0035	P	4.0
3	☐	250.000	239.279	5189560.75	0.9075	A	0.7
4	☐	625.000	628.865	13285705.53	2.3849	A	3.7
5	☐	1250.000	1251.087	26433007.04	4.7445	A	1.0
6	☐	2500.000	2481.738	51359271.45	9.4113	A	1.6
7	☐	5000.000	5008.912	100172095.4	18.9947	A	1.5
8	☐			37713.24	0.0084	P	8.1

$$y = 0.0038 * x + 1.3645E-004$$

$$R = 1.0000$$

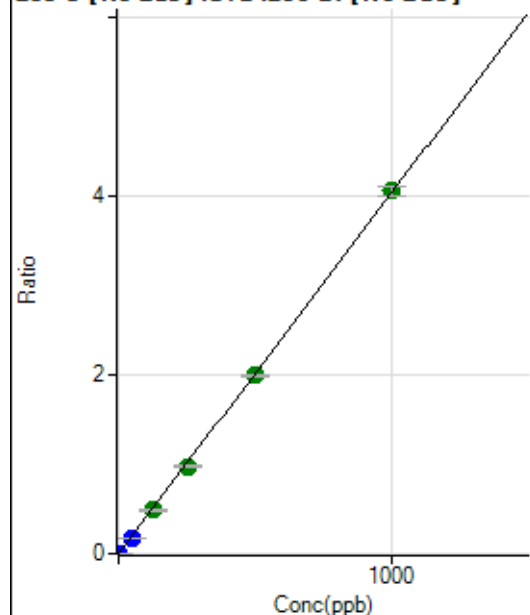
$$DL = 0.006139$$

$$BEC = 0.03598$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	14.45	0.0000	P	28.6
2	☐	1.000	0.766	17634.36	0.0031	P	3.8
3	☐	50.000	40.804	941070.68	0.1646	P	1.2
4	☐	125.000	121.852	2736183.57	0.4914	A	5.3
5	☐	250.000	242.163	5440240.34	0.9766	A	2.6
6	☐	500.000	494.346	10881248.03	1.9937	A	0.6
7	☐	1000.000	1005.640	21388034.54	4.0558	A	2.5
8	☐			2755.89	0.0006	P	21.1

$$y = 0.0040 * x + 2.5804E-006$$

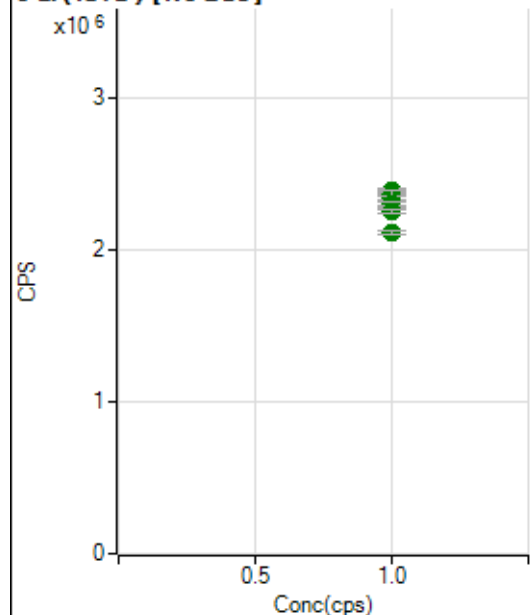
$$R = 0.9999$$

$$DL = 0.0005497$$

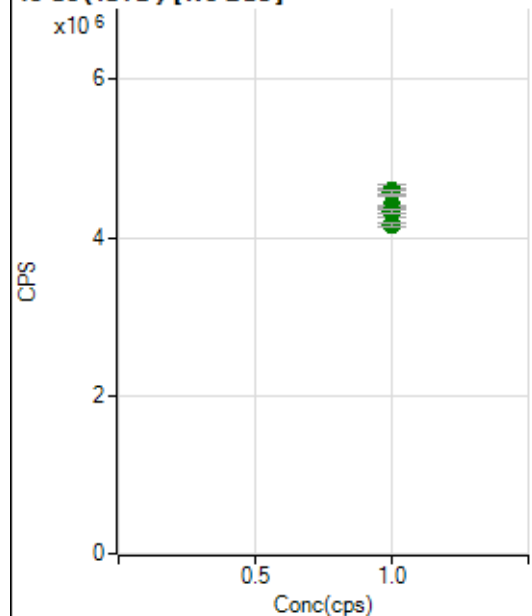
$$BEC = 0.0006398$$

Weight: <None>

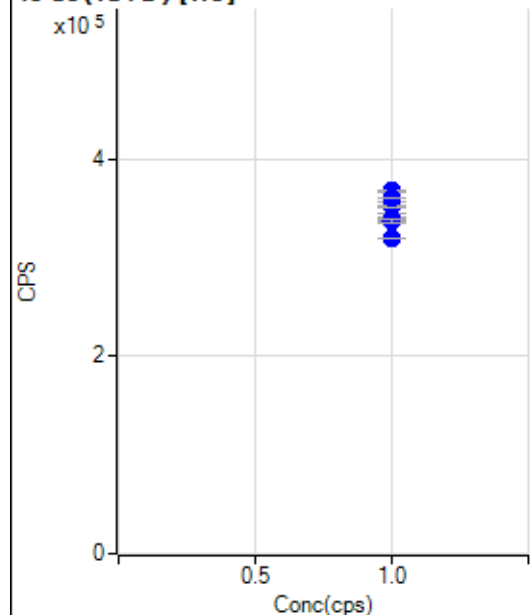
Min Conc: 0

6 Li (ISTD) [No Gas]

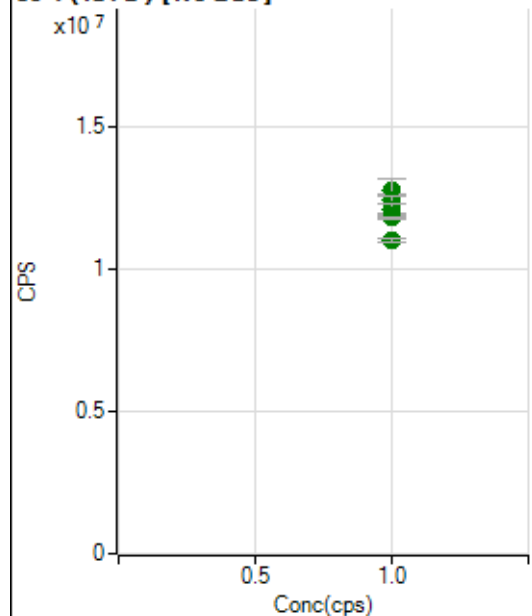
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2385875.64		A	1.0
2	☐	1.000		2343069.64		A	2.2
3	☐	1.000		2367068.99		A	1.5
4	☐	1.000		2283796.22		A	3.6
5	☐	1.000		2297370.81		A	2.1
6	☐	1.000		2305199.22		A	0.9
7	☐	1.000		2251057.78		A	0.9
8	☐	1.000		2107208.04		A	1.1

45 Sc (ISTD) [No Gas]

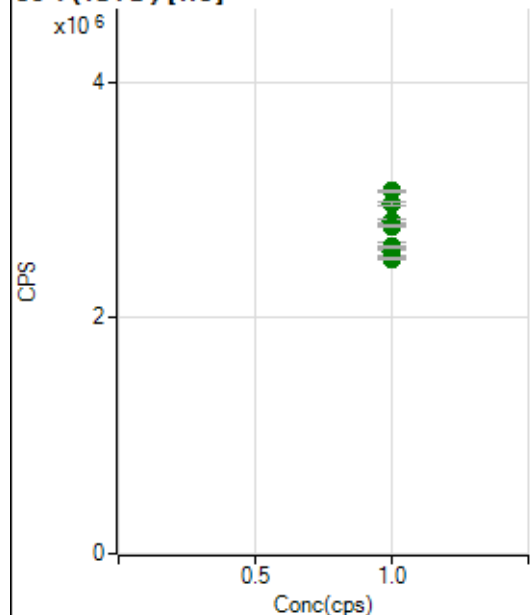
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4573454.79		A	2.1
2	☐	1.000		4588748.78		A	3.1
3	☐	1.000		4567839.86		A	1.6
4	☐	1.000		4400386.60		A	6.2
5	☐	1.000		4372349.28		A	1.3
6	☐	1.000		4395561.15		A	0.5
7	☐	1.000		4323127.37		A	1.0
8	☐	1.000		4161826.29		A	1.3

45 Sc (ISTD) [He]

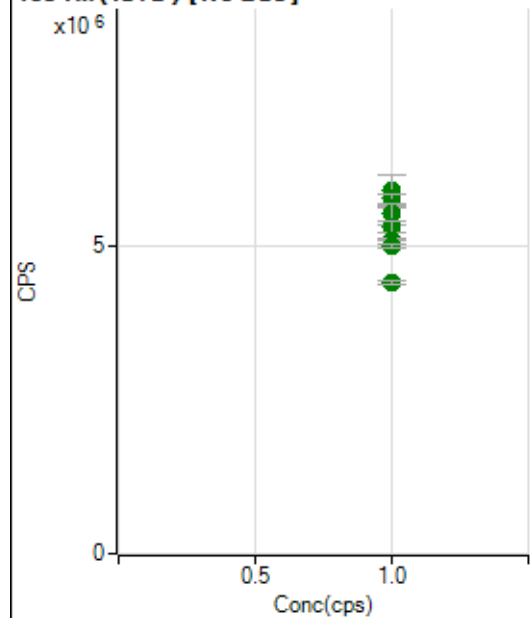
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		367605.49		P	0.6
2	☐	1.000		356758.48		P	0.1
3	☐	1.000		351973.64		P	0.4
4	☐	1.000		360411.38		P	0.2
5	☐	1.000		339474.63		P	3.0
6	☐	1.000		339090.47		P	1.5
7	☐	1.000		336963.84		P	1.1
8	☐	1.000		319798.37		P	0.4

89 Y (ISTD) [No Gas]

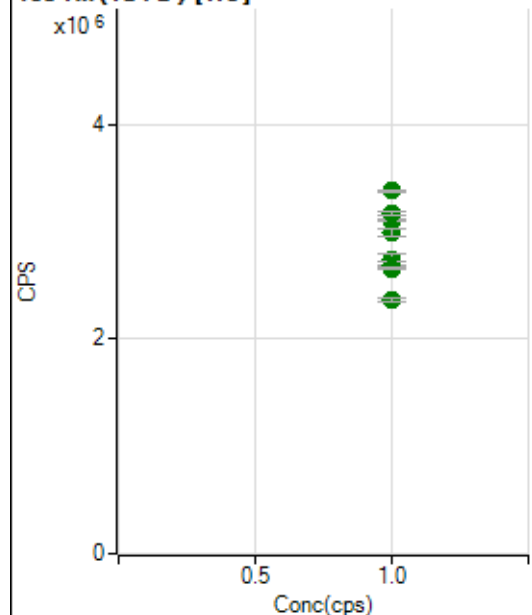
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		12771307.17		A	6.6
2	☐	1.000		12478110.37		A	2.5
3	☐	1.000		12440865.65		A	2.3
4	☐	1.000		12295430.23		A	5.3
5	☐	1.000		12138583.15		A	3.2
6	☐	1.000		11929640.52		A	0.7
7	☐	1.000		11813320.10		A	0.8
8	☐	1.000		11048082.47		A	1.0

89 Y(ISTD) [He]

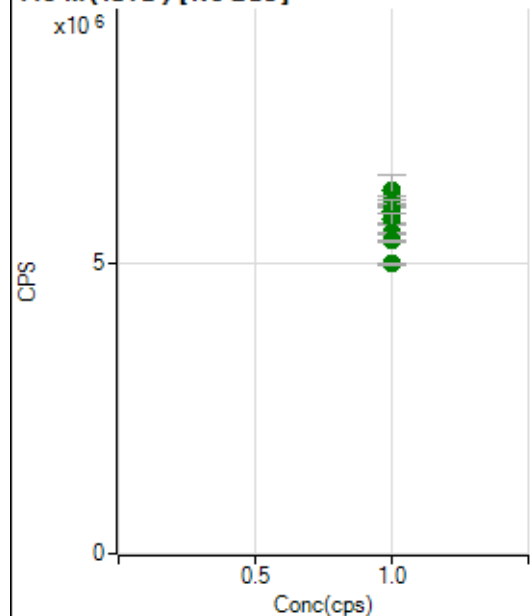
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3074437.59		A	0.8
2	☐	1.000		2818757.02		A	1.5
3	☐	1.000		2775122.02		A	0.7
4	☐	1.000		2963084.12		A	0.9
5	☐	1.000		2603858.66		A	2.7
6	☐	1.000		2553702.79		A	1.7
7	☐	1.000		2599609.30		A	1.1
8	☐	1.000		2498140.17		A	0.6

103 Rh(ISTD) [No Gas]

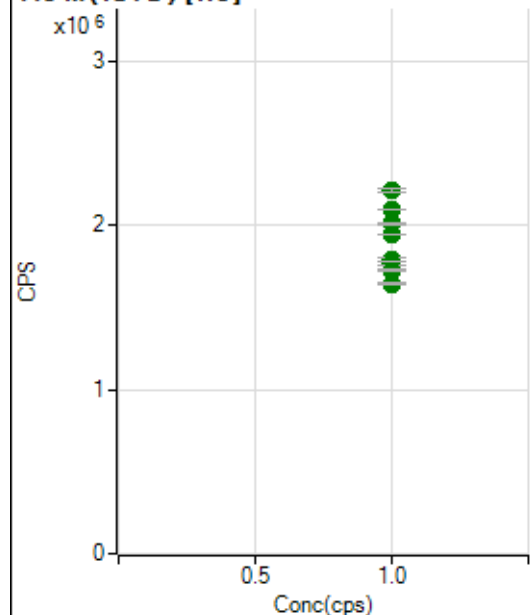
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5892400.43		A	8.7
2	☐	1.000		5762924.22		A	2.9
3	☐	1.000		5626406.48		A	0.6
4	☐	1.000		5520826.58		A	6.2
5	☐	1.000		5319661.49		A	3.3
6	☐	1.000		5105448.71		A	0.9
7	☐	1.000		4999997.50		A	0.8
8	☐	1.000		4414672.85		A	1.6

103 Rh (ISTD) [He]

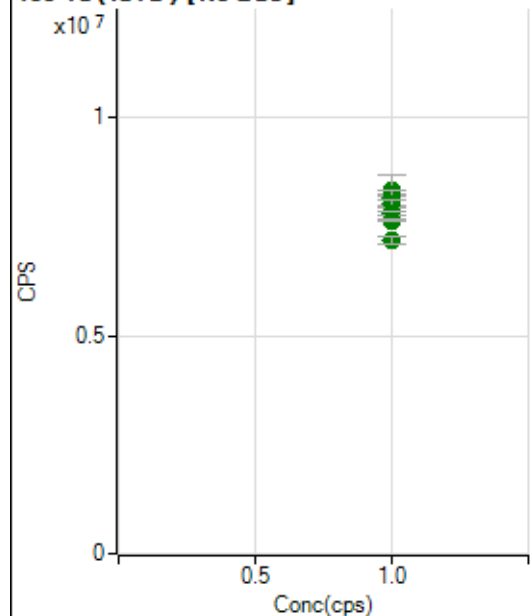
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3382798.80		A	0.2
2	☐	1.000		3104973.64		A	0.8
3	☐	1.000		2991995.62		A	2.0
4	☐	1.000		3171001.38		A	1.0
5	☐	1.000		2741511.50		A	3.5
6	☐	1.000		2691496.57		A	2.1
7	☐	1.000		2657546.97		A	0.5
8	☐	1.000		2368106.37		A	1.0

115 In (ISTD) [No Gas]

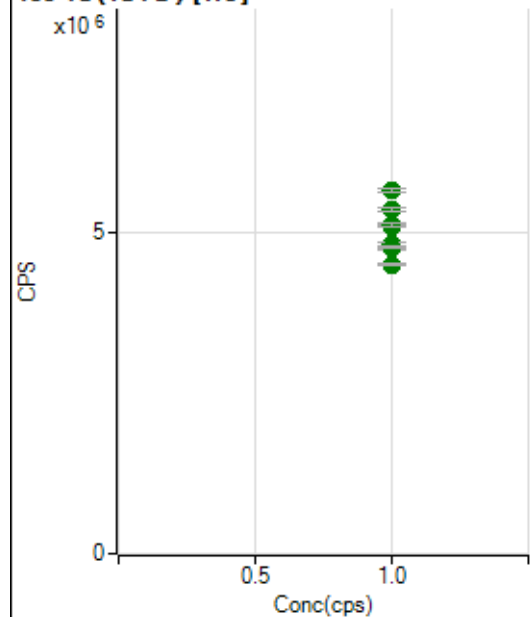
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6259315.72		A	9.1
2	☐	1.000		6091100.51		A	2.4
3	☐	1.000		6036544.72		A	0.5
4	☐	1.000		5911941.86		A	6.5
5	☐	1.000		5766737.34		A	3.7
6	☐	1.000		5534730.91		A	0.5
7	☐	1.000		5393912.71		A	0.6
8	☐	1.000		4995276.77		A	0.6

115 In (ISTD) [He]

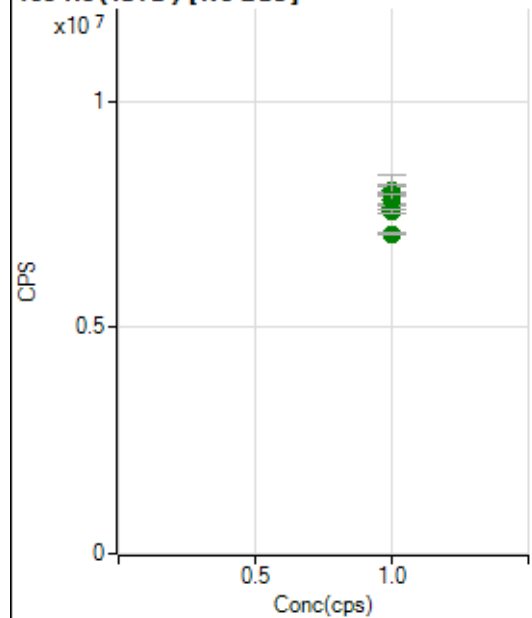
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2208012.62		A	1.1
2	☐	1.000		2007710.30		A	0.6
3	☐	1.000		1944016.21		A	0.4
4	☐	1.000		2092730.07		A	0.3
5	☐	1.000		1795574.58		A	1.3
6	☐	1.000		1766856.85		A	1.3
7	☐	1.000		1724552.67		A	0.9
8	☐	1.000		1644097.47		A	1.2

159 Tb (ISTD) [No Gas]

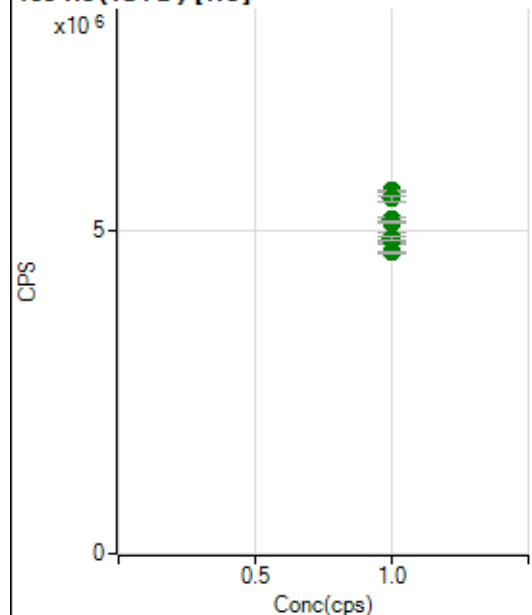
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8311344.67		A	8.6
2	☐	1.000		8227774.53		A	0.8
3	☐	1.000		8139879.53		A	1.0
4	☐	1.000		8084005.30		A	5.6
5	☐	1.000		8022673.35		A	2.3
6	☐	1.000		7804797.59		A	0.9
7	☐	1.000		7632243.29		A	0.5
8	☐	1.000		7201117.11		A	2.5

159 Tb (ISTD) [He]

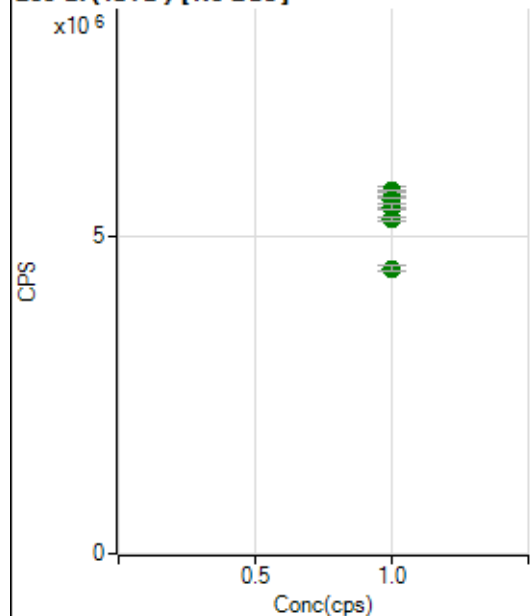
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5660038.73		A	1.1
2	☐	1.000		5113734.37		A	0.7
3	☐	1.000		5121914.85		A	1.2
4	☐	1.000		5375973.88		A	0.9
5	☐	1.000		4833556.56		A	1.2
6	☐	1.000		4773401.18		A	1.6
7	☐	1.000		4782570.73		A	0.5
8	☐	1.000		4505077.95		A	0.5

165 Ho (ISTD) [No Gas]

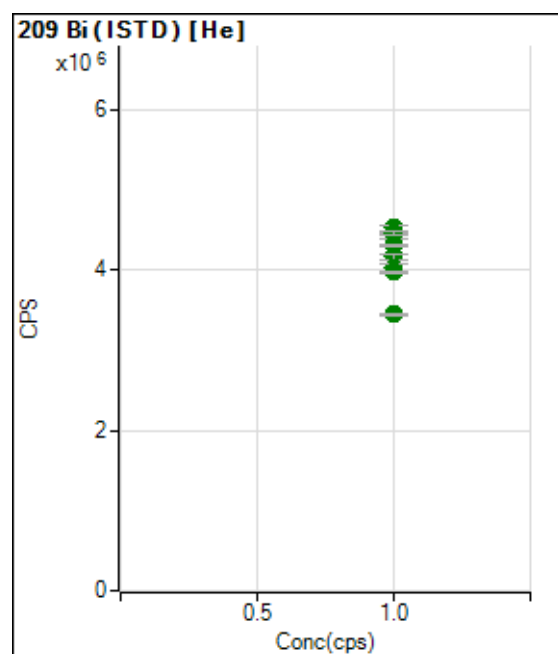
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8026336.27		A	8.6
2	☐	1.000		8012000.85		A	2.4
3	☐	1.000		7959507.66		A	1.1
4	☐	1.000		7952295.51		A	5.1
5	☐	1.000		7823340.72		A	3.2
6	☐	1.000		7659189.12		A	0.9
7	☐	1.000		7584087.25		A	1.1
8	☐	1.000		7081288.02		A	0.6

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5629812.07		A	0.5
2	☐	1.000		5193377.42		A	1.0
3	☐	1.000		5136766.69		A	0.5
4	☐	1.000		5508247.42		A	1.3
5	☐	1.000		4896992.33		A	3.2
6	☐	1.000		4872623.37		A	1.6
7	☐	1.000		4895460.97		A	1.4
8	☐	1.000		4671635.87		A	0.3

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5625899.71		A	3.6
2	☐	1.000		5706074.50		A	2.6
3	☐	1.000		5718513.11		A	0.7
4	☐	1.000		5576866.65		A	4.6
5	☐	1.000		5571837.14		A	1.7
6	☐	1.000		5458148.11		A	1.7
7	☐	1.000		5274093.74		A	0.8
8	☐	1.000		4493005.49		A	2.3



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4522745.84		A	1.7
2	☐	1.000		4429674.59		A	1.7
3	☐	1.000		4313002.47		A	0.5
4	☐	1.000		4453101.91		A	1.2
5	☐	1.000		4159534.76		A	2.2
6	☐	1.000		4032581.61		A	2.1
7	☐	1.000		3972032.61		A	0.4
8	☐	1.000		3442388.00		A	0.5

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7061323MS.b

Acq. Date-Time 2023-06-13 12:39:25

Report Comment ---

Instrument Name G8403A JP14410463

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		9715	97149.80			0.367	5.000
24		93365	933647.45			0.866	5.000
25		12834	128337.44			0.615	5.000
26		14778	147779.52			0.399	5.000
59		56625	566245.58			1.112	5.000
113		6547	65468.96			1.755	5.000
115		82109	821087.24			1.186	5.000
206		21376	213761.17			1.496	5.000
207		19504	195039.63			1.148	5.000
208		46696	466964.34			1.126	5.000
220		0	3.10			33.055	

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

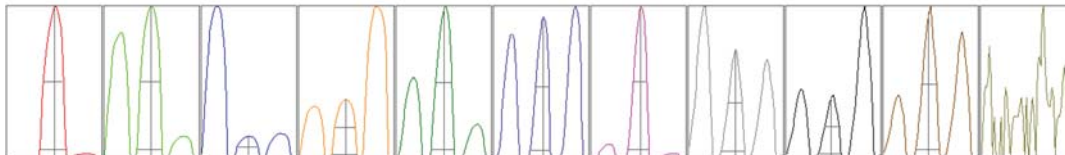
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	9673	9693	9760	9743	9706
24	92884	92318	93459	94436	93727
25	12745	12789	12807	12887	12941
26	14705	14758	14750	14827	14850
59	56207	56251	56357	56589	57720
113	6476	6481	6533	6496	6749
115	81368	81305	81690	82592	83589
206	20953	21266	21321	21527	21814
207	19260	19457	19446	19485	19872
208	46255	46412	47000	46338	47477

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	16620.85	9.05	8.90 - 9.10	
24	156353.84	24.00	23.90 - 24.10	
25	21068.81	25.00	24.90 - 25.10	
26	24023.03	26.00	25.90 - 26.10	
59	115570.04	59.05	58.90 - 59.10	
113	15731.58	113.10	112.90 - 113.10	
115	194626.35	115.10	114.90 - 115.10	
206	48785.34	206.00	205.90 - 206.10	
207	42804.48	206.95	206.90 - 207.10	
208	103339.22	207.95	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.62	0.824	0.900	
24	0.62	0.790	0.900	
25	0.64	0.783	0.900	
26	0.65	0.788	0.900	
59	0.51	0.724	0.900	
113	0.42	0.619	0.900	
115	0.43	0.654	0.900	
206	0.44	0.750	0.900	
207	0.46	0.712	0.900	
208	0.46	0.753	0.900	
220				

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.82 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	0.0 V	Omega Lens	9.2 V	Deflect	15.2 V
Extract 2	-110.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-65 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	170 V		

QP Parameters

Mass Gain	123	Axis Gain	0.9999	QP Bias	-3.0 V
Mass Offset	124	Axis Offset	0.03		

Hardware Settings

Torch

Torch H	-1.1 mm	Torch V	1.1 mm
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EM

Discriminator	3.1 mV	Analog HV	2298 V	Pulse HV	1652 V
---------------	--------	-----------	--------	----------	--------

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		18835	188354.53			0.675	
89		24515	245147.73			0.877	
205		21081	210805.57			0.757	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	18952	18736	18951	18866	18672
89	24672	24352	24759	24546	24244
205	20967	21302	21169	20903	21061

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.82 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	0.0 V	Omega Lens	8.6 V	Deflect	3.6 V
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US EPA Tune Check Report

Extract 2	-95.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-60 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.9 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		

QP Parameters

Mass Gain	123	Axis Gain	0.9999	QP Bias	-13.0 V
Mass Offset	124	Axis Offset	0.03		

Hardware Settings

Torch

Torch H	-1.1 mm	Torch V	1.1 mm
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EM

Discriminator	3.1 mV	Analog HV	2298 V	Pulse HV	1652 V
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