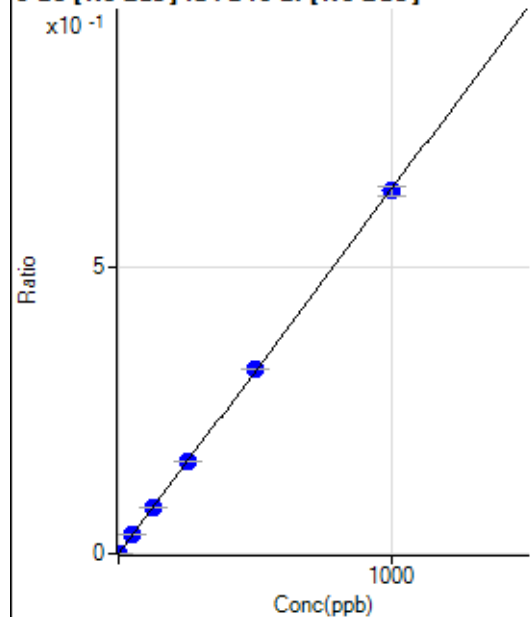


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8111620MS.b\
Analysis File: P8111620MS.batch.bin
DA Date-Time: 2020-11-16 16:12:39
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2020-11-16 13:33:40
2	004CALS.d	S02	2020-11-16 13:36:54
3	005CALS.d	S03	2020-11-16 13:40:05
4	006CALS.d	S04	2020-11-16 13:43:18
5	007CALS.d	S05	2020-11-16 13:46:24
6	008CALS.d	S06	2020-11-16 13:49:25
7	009CALS.d	S07	2020-11-16 13:52:23
8	010CALS.d	S08	2020-11-16 13:55:23

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	33.32	0.0000	P	22.6
2	☐	1.000	1.007	554.57	0.0007	P	10.7
3	☐	50.000	51.800	28109.74	0.0331	P	1.1
4	☐	125.000	127.382	70212.56	0.0813	P	1.7
5	☐	250.000	253.188	141695.54	0.1616	P	0.8
6	☐	500.000	507.261	280486.98	0.3237	P	0.5
7	☐	1000.000	995.185	554633.43	0.6351	P	2.4
8	☐			423.26	0.0005	P	10.5

$$y = 6.3815\text{E-}004 * x + 3.9568\text{E-}005$$

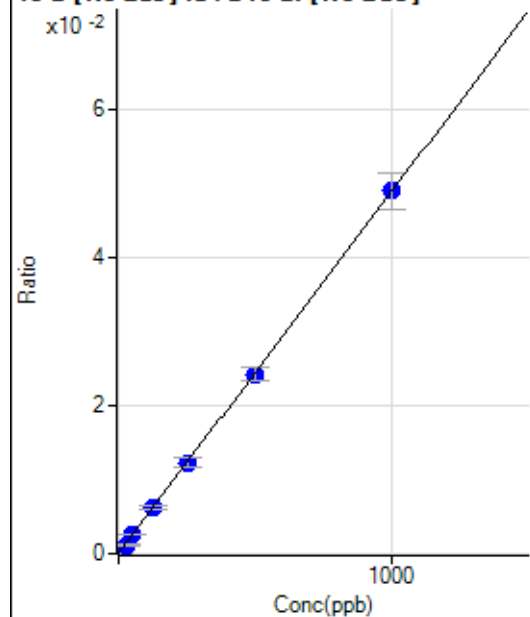
$$R = 1.0000$$

$$DL = 0.042$$

$$BEC = 0.062$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	65.32	0.0001	P	6.3
2	☐	25.000	22.192	942.51	0.0012	P	9.2
3	☐	50.000	51.730	2211.07	0.0026	P	6.5
4	☐	125.000	126.414	5391.94	0.0062	P	7.7
5	☐	250.000	249.976	10765.18	0.0123	P	10.5
6	☐	500.000	495.085	21006.83	0.0242	P	7.4
7	☐	1000.000	1002.270	42775.58	0.0490	P	10.3
8	☐			7042.98	0.0078	P	10.9

$$y = 4.8820\text{E-}005 * x + 7.7576\text{E-}005$$

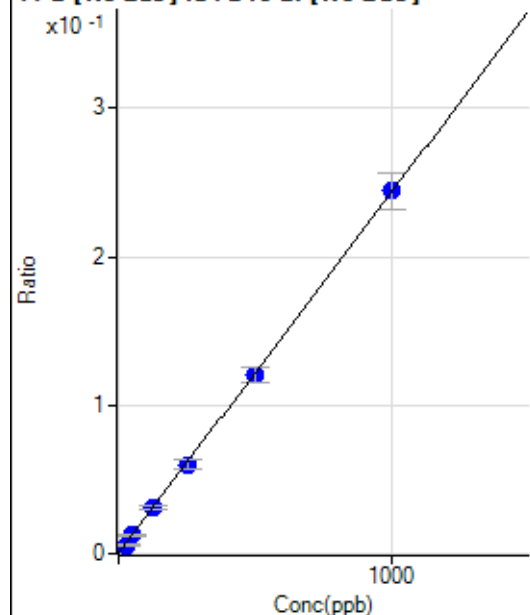
$$R = 1.0000$$

$$DL = 0.3016$$

$$BEC = 1.589$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	243.29	0.0003	P	6.3
2	☐	25.000	22.531	4682.50	0.0058	P	11.5
3	☐	50.000	51.076	10794.53	0.0127	P	10.3
4	☐	125.000	124.919	26455.18	0.0307	P	9.2
5	☐	250.000	245.686	52622.18	0.0600	P	9.5
6	☐	500.000	495.173	104567.87	0.1207	P	8.3
7	☐	1000.000	1003.510	213249.08	0.2443	P	9.7
8	☐			34883.02	0.0386	P	10.1

$$y = 2.4317E-004 * x + 2.8893E-004$$

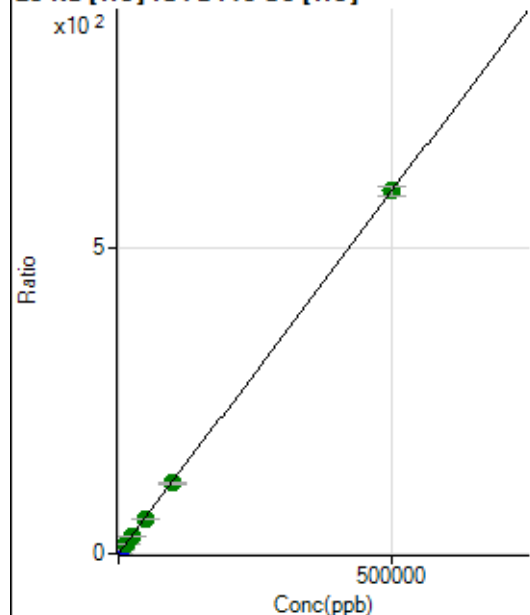
$$R = 1.0000$$

$$DL = 0.2238$$

$$BEC = 1.188$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	29624.98	0.3494	P	2.7
2	☐	500.000	469.819	76913.87	0.9070	P	0.7
3	☐	5000.000	5084.252	544306.87	6.3843	P	0.7
4	☐	12500.000	12540.577	1284929.73	15.2347	A	2.2
5	☐	25000.000	24668.307	2521139.16	29.6301	A	1.3
6	☐	50000.000	48194.005	4924033.10	57.5545	A	0.7
7	☐	100000.00	97537.191	9784465.24	116.1236	A	2.6
8	☐	500000.00	500687.91	50931288.29	594.6537	A	2.3

$$y = 0.0012 * x + 0.3494$$

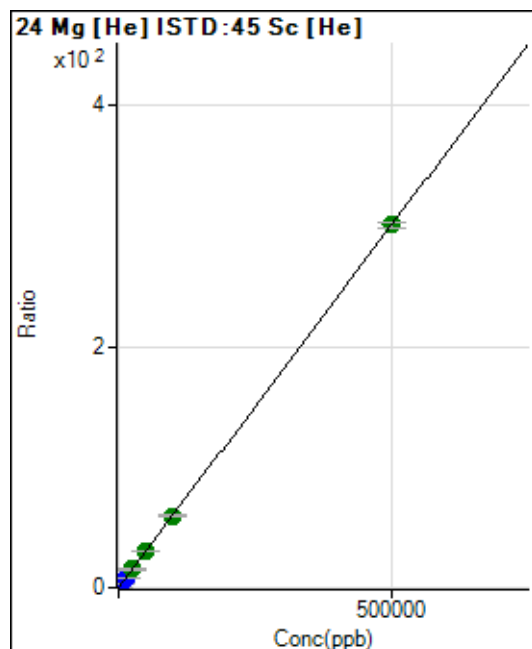
$$R = 1.0000$$

$$DL = 23.43$$

$$BEC = 294.3$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	475.02	0.0056	P	10.1
2	☐	500.000	472.024	24560.02	0.2896	P	1.0
3	☐	5000.000	5174.821	265957.31	3.1194	P	0.6
4	☐	12500.000	12817.315	651016.43	7.7181	P	0.9
5	☐	25000.000	25204.853	1290975.73	15.1720	A	0.8
6	☐	50000.000	49459.222	2546555.16	29.7665	A	1.6
7	☐	100000.00	98602.867	5000132.71	59.3375	A	1.8
8	☐	500000.00	500313.60	25786587.55	301.0571	A	1.9

$$y = 6.0173\text{E-}004 * x + 0.0056$$

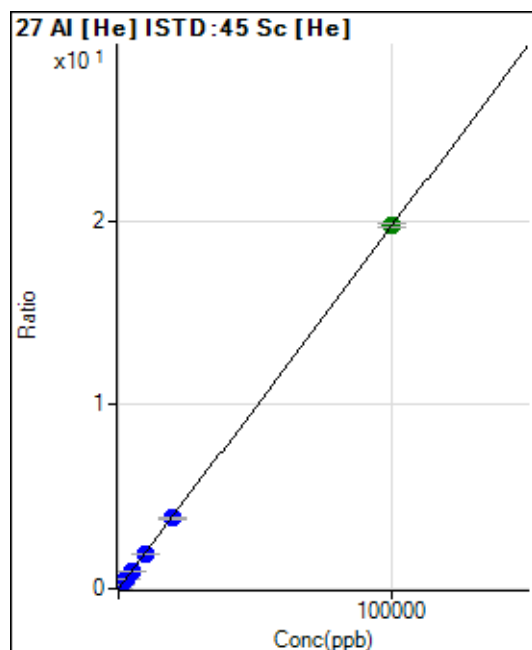
$$R = 1.0000$$

$$DL = 2.827$$

$$BEC = 9.299$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	347.46	0.0041	P	6.2
2	☐	20.000	18.233	652.44	0.0077	P	3.9
3	☐	1000.000	991.263	17014.04	0.1996	P	0.6
4	☐	2500.000	2479.880	41590.86	0.4931	P	2.0
5	☐	5000.000	4921.558	82919.93	0.9746	P	0.7
6	☐	10000.000	9610.217	162474.26	1.8991	P	0.7
7	☐	20000.000	19515.211	324601.78	3.8522	P	2.0
8	☐	100000.00	100140.44	1691858.55	19.7504	A	1.2

$$y = 1.9719\text{E-}004 * x + 0.0041$$

$$R = 1.0000$$

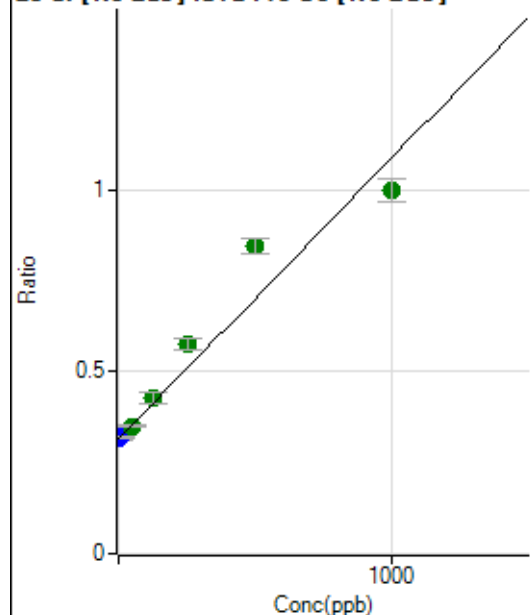
$$DL = 3.847$$

$$BEC = 20.79$$

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	817106.20	0.3151	P	3.2
2	☐	10.000	6.972	822890.70	0.3205	P	0.5
3	☐	50.000	46.612	925332.54	0.3512	A	1.9
4	☐	125.000	146.246	1141193.89	0.4282	A	6.4
5	☐	250.000	336.138	1521297.08	0.5751	A	5.7
6	☐	500.000	687.988	2241170.82	0.8473	A	4.9
7	☐	1000.000	882.015	2699368.18	0.9974	A	6.2
8	☐			922648.63	0.3370	A	3.7

$$y = 7.7360E-004 * x + 0.3151$$

$$R = 0.9662$$

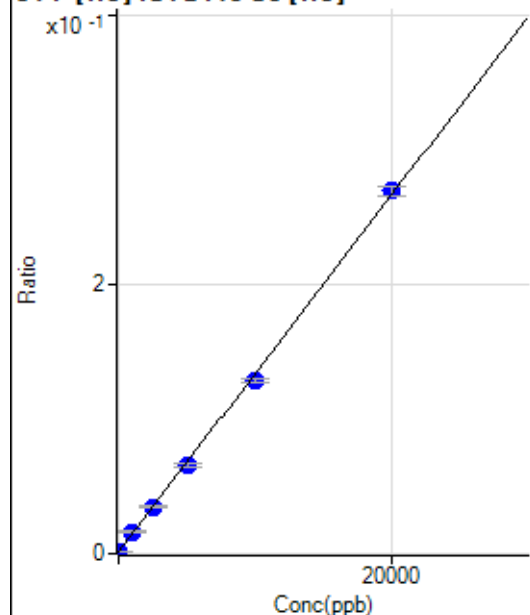
$$DL = 38.86$$

$$BEC = 407.3$$

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	-3.650	111.12	0.0013	P	6.4
2	☐	0.000	3.650	119.45	0.0014	P	20.9
3	☐	1000.000	1105.325	1363.99	0.0160	P	5.5
4	☐	2500.000	2534.312	2944.82	0.0349	P	1.4
5	☐	5000.000	4827.415	5554.02	0.0653	P	5.1
6	☐	10000.000	9605.395	10996.11	0.1285	P	1.4
7	☐	20000.000	20230.893	22684.90	0.2692	P	2.3
8	☐			111.11	0.0013	P	34.2

$$y = 1.3240E-005 * x + 0.0014$$

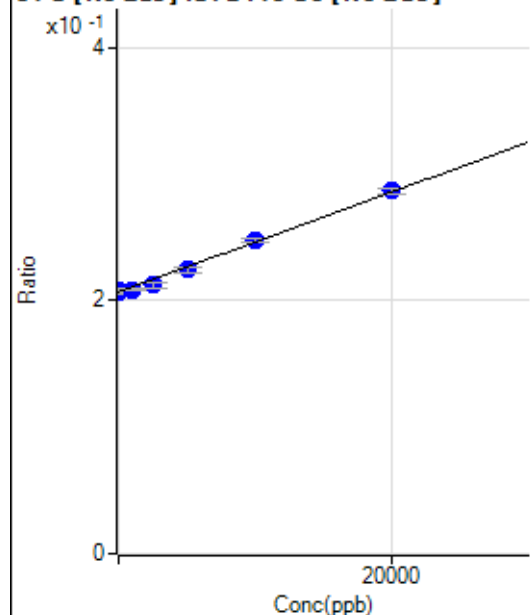
$$R = 0.9996$$

$$DL = 42.9$$

$$BEC = 102.7$$

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	128.769	538188.05	0.2075	P	2.6
2	☐	0.000	-128.769	530200.11	0.2065	P	0.5
3	☐	1000.000	421.720	549880.33	0.2087	P	0.6
4	☐	2500.000	1287.499	565711.90	0.2121	P	1.6
5	☐	5000.000	4370.310	593387.77	0.2243	P	2.2
6	☐	10000.000	10257.315	654264.99	0.2475	P	1.3
7	☐	20000.000	20209.241	776595.61	0.2868	P	1.5
8	☐			511949.86	0.1870	P	3.2

$$y = 3.9463\text{E-}006 * x + 0.2070$$

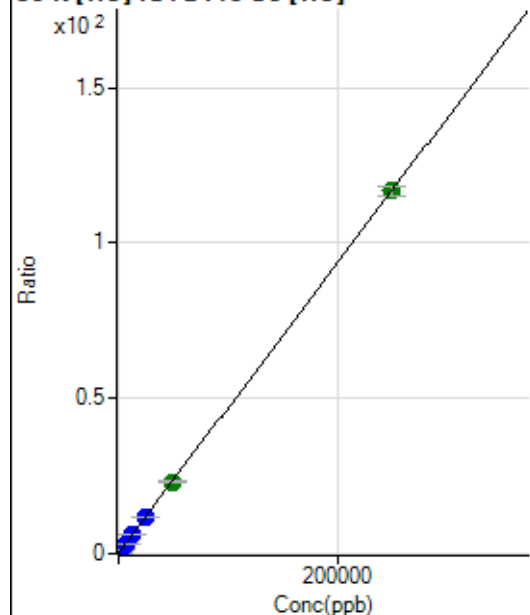
$$R = 0.9979$$

$$DL = 2458$$

$$BEC = 5.246\text{E}+04$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	22195.30	0.2617	P	1.2
2	☐	500.000	460.107	40356.97	0.4759	P	0.3
3	☐	2500.000	2551.425	123593.17	1.4496	P	0.3
4	☐	6250.000	6435.184	274791.03	3.2578	P	1.1
5	☐	12500.000	12652.558	523478.06	6.1525	P	0.9
6	☐	25000.000	24745.943	1008065.16	11.7830	P	1.1
7	☐	50000.000	49119.915	1949324.57	23.1312	A	0.9
8	☐	250000.00	250188.73	9998164.54	116.7457	A	2.7

$$y = 4.6558\text{E-}004 * x + 0.2617$$

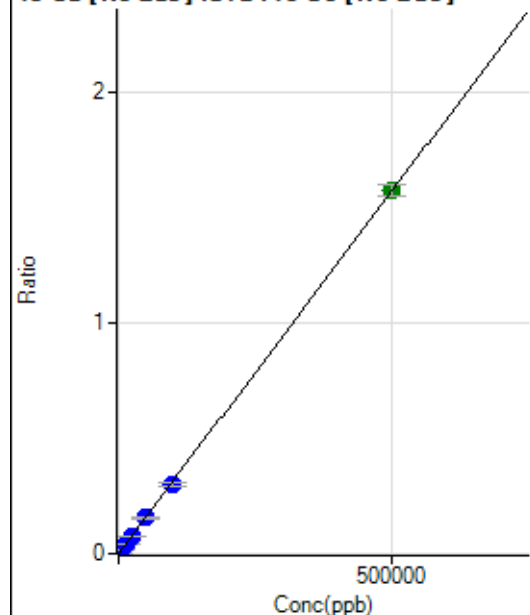
$$R = 1.0000$$

$$DL = 20.94$$

$$BEC = 562.1$$

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	290.39	0.0001	P	2.7
2	☐	500.000	443.770	3869.22	0.0015	P	2.4
3	☐	5000.000	4952.517	41324.64	0.0157	P	1.6
4	☐	12500.000	12154.340	102198.51	0.0383	P	2.9
5	☐	25000.000	24645.127	205330.30	0.0776	P	1.6
6	☐	50000.000	49132.116	408684.83	0.1546	P	0.6
7	☐	100000.00	95694.499	814886.26	0.3010	P	3.2
8	☐	500000.00	500974.80	4312878.50	1.5752	A	3.0

$$y = 3.1440\text{E-}006 * x + 1.1188\text{E-}004$$

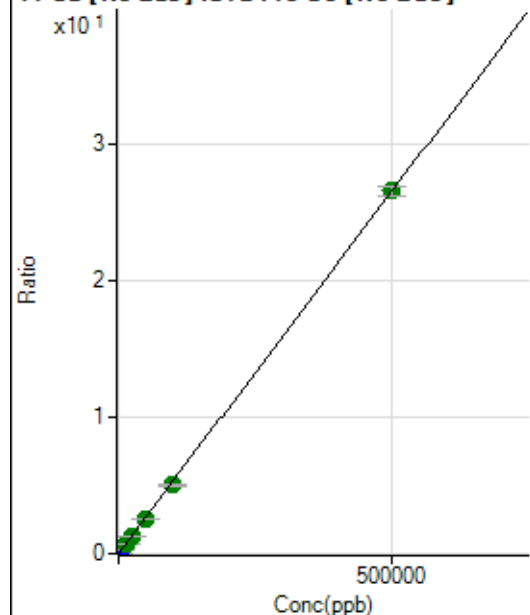
$$R = 1.0000$$

$$DL = 2.929$$

$$BEC = 35.59$$

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	21818.79	0.0084	P	2.9
2	☐	500.000	472.410	85905.74	0.0335	P	0.5
3	☐	5000.000	4951.280	713874.49	0.2709	P	1.1
4	☐	12500.000	12098.430	1733095.75	0.6498	A	2.1
5	☐	25000.000	24402.774	3445996.18	1.3021	A	0.7
6	☐	50000.000	48214.489	6780043.29	2.5645	A	0.6
7	☐	100000.00	94356.589	13567823.42	5.0107	A	2.6
8	☐	500000.00	501347.64	72813670.08	26.5875	A	2.6

$$y = 5.3015\text{E-}005 * x + 0.0084$$

$$R = 0.9999$$

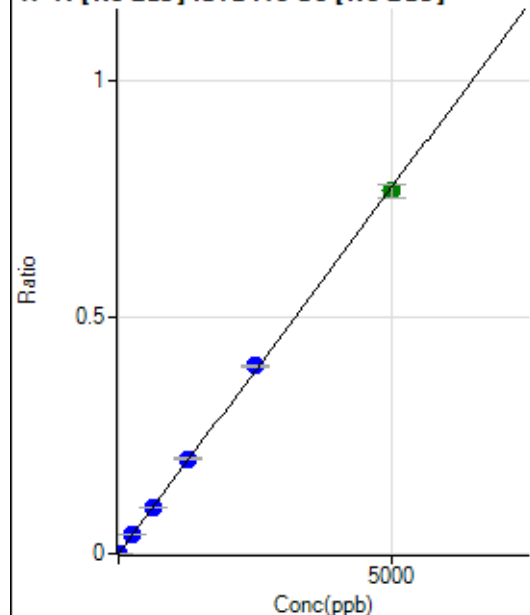
$$DL = 13.82$$

$$BEC = 158.7$$

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	347.24	0.0001	P	15.4
2	☐	5.000	5.027	2341.92	0.0009	P	6.1
3	☐	250.000	260.510	106608.91	0.0405	P	0.4
4	☐	625.000	635.207	262574.66	0.0985	P	2.2
5	☐	1250.000	1289.443	528470.78	0.1997	P	1.9
6	☐	2500.000	2562.229	1048846.52	0.3967	P	0.9
7	☐	5000.000	4957.223	2077709.60	0.7674	A	3.8
8	☐			1150.08	0.0004	P	4.0

$$y = 1.5478\text{E-}004 * x + 1.3380\text{E-}004$$

$$R = 0.9998$$

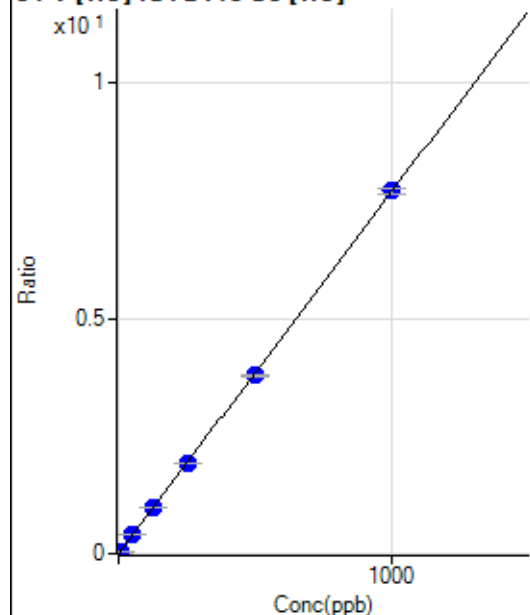
$$DL = 0.4005$$

$$BEC = 0.8645$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	11.11	0.0001	P	61.2
2	☐	5.000	4.772	3121.48	0.0368	P	1.5
3	☐	50.000	50.897	33367.77	0.3914	P	0.8
4	☐	125.000	127.301	82553.95	0.9787	P	0.9
5	☐	250.000	251.084	164240.14	1.9303	P	0.5
6	☐	500.000	492.401	323841.93	3.7853	P	1.2
7	☐	1000.000	1003.197	649873.79	7.7119	P	1.3
8	☐			262.23	0.0031	P	8.6

$$y = 0.0077 * x + 1.2984\text{E-}004$$

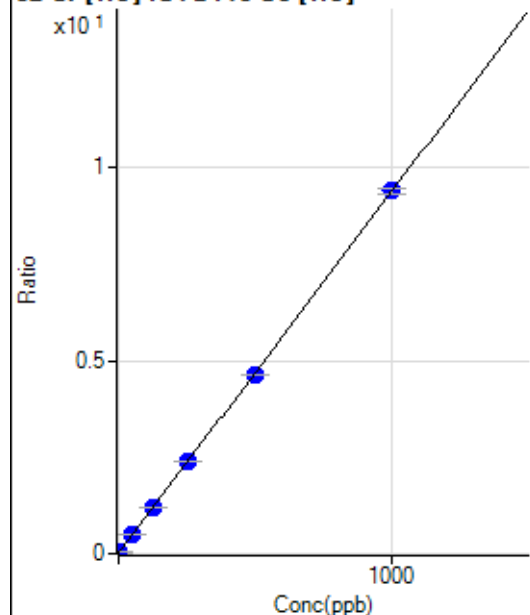
$$R = 1.0000$$

$$DL = 0.03099$$

$$BEC = 0.01689$$

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	823.37	0.0097	P	4.9
2	☐	2.000	1.942	2366.89	0.0279	P	4.1
3	☐	50.000	51.838	42262.26	0.4957	P	0.2
4	☐	125.000	127.153	101367.06	1.2018	P	1.5
5	☐	250.000	253.020	202654.32	2.3818	P	1.1
6	☐	500.000	493.577	396722.44	4.6371	P	0.6
7	☐	1000.000	1002.096	792490.85	9.4047	P	1.7
8	☐			7300.82	0.0852	P	1.5

$$y = 0.0094 * x + 0.0097$$

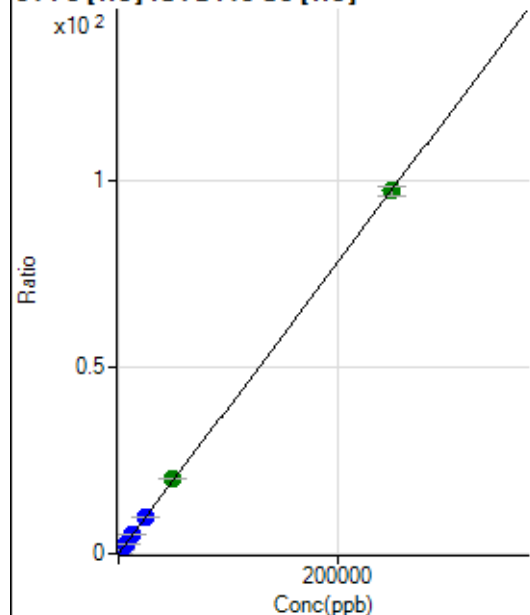
$$R = 1.0000$$

$$DL = 0.1532$$

$$BEC = 1.035$$

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	325.94	0.0038	P	13.7
2	☐	50.000	48.400	1920.53	0.0226	P	6.4
3	☐	2500.000	2587.899	86035.16	1.0091	P	0.2
4	☐	6250.000	6504.400	213435.34	2.5305	P	2.1
5	☐	12500.000	12763.437	422171.62	4.9618	P	0.7
6	☐	25000.000	24937.158	829089.85	9.6907	P	1.0
7	☐	50000.000	51211.875	1676773.48	19.8972	A	1.0
8	☐	250000.00	249743.49	8308983.46	97.0173	A	2.7

$$y = 3.8845E-004 * x + 0.0038$$

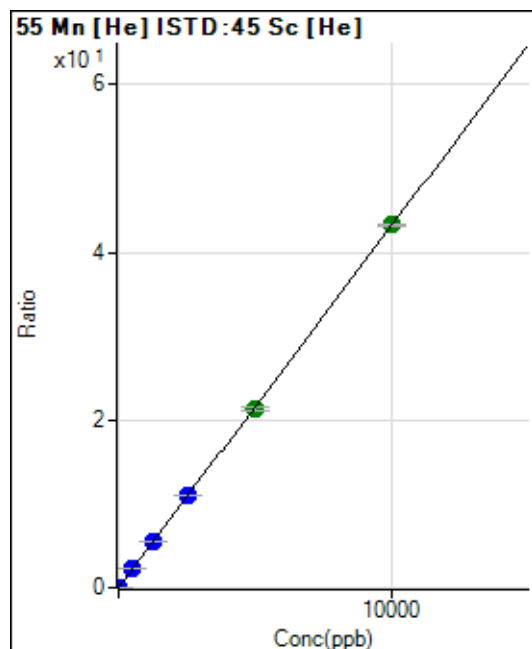
$$R = 1.0000$$

$$DL = 4.053$$

$$BEC = 9.896$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	De _t	RSD
1	☐	0.000	0.000	76.67	0.0009	P	25.2
2	☐	1.000	0.971	432.23	0.0051	P	3.5
3	☐	500.000	510.117	187766.29	2.2024	P	0.5
4	☐	1250.000	1269.992	462353.50	5.4817	P	1.6
5	☐	2500.000	2533.310	930287.78	10.9337	P	0.7
6	☐	5000.000	4930.512	1820513.58	21.2791	A	1.6
7	☐	10000.000	10023.412	3645461.72	43.2581	A	0.9
8	☐			4115.08	0.0480	P	1.9

$$y = 0.0043 * x + 9.0770E-004$$

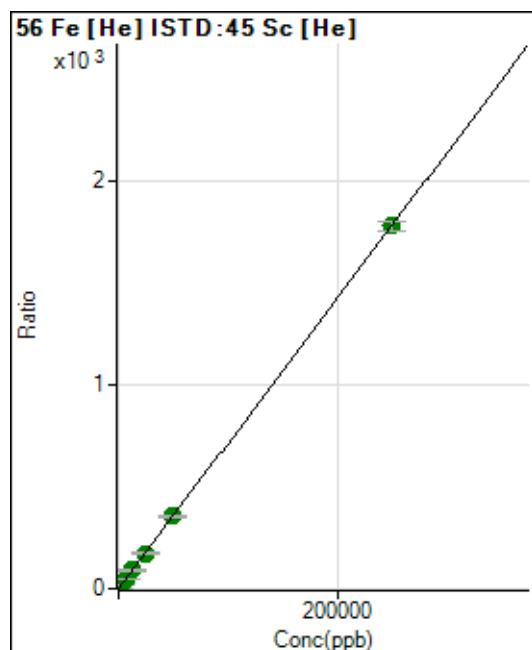
$$R = 1.0000$$

$$DL = 0.1588$$

$$BEC = 0.2103$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	De _t	RSD
1	☐	0.000	0.000	2265.04	0.0267	P	4.4
2	☐	50.000	47.814	31143.42	0.3673	P	0.3
3	☐	2500.000	2563.435	1559040.75	18.2855	A	0.5
4	☐	6250.000	6450.266	3877483.16	45.9706	A	1.3
5	☐	12500.000	12605.311	7641573.73	89.8118	A	0.8
6	☐	25000.000	24502.792	14933974.64	174.5552	A	0.8
7	☐	50000.000	49715.936	29843456.46	354.1433	A	1.4
8	☐	250000.00	250095.62	152556842.3	1,781.407	A	2.8

$$y = 0.0071 * x + 0.0267$$

$$R = 1.0000$$

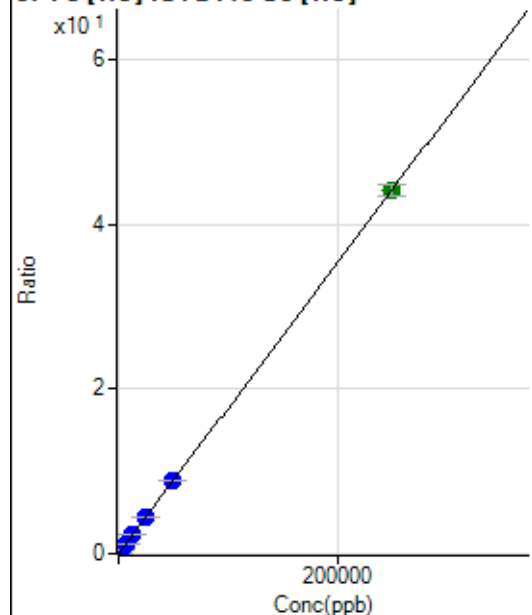
$$DL = 0.4921$$

$$BEC = 3.748$$

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	131.49	0.0015	P	21.5
2	☐	50.000	48.423	855.60	0.0101	P	5.2
3	☐	2500.000	2589.049	39070.36	0.4582	P	1.8
4	☐	6250.000	6463.261	96296.85	1.1416	P	0.9
5	☐	12500.000	12700.853	190743.39	2.2419	P	1.7
6	☐	25000.000	24729.846	373333.33	4.3638	P	0.8
7	☐	50000.000	50201.196	746324.32	8.8568	P	1.7
8	☐	250000.00	249970.51	3776015.10	44.0952	A	3.3

$$y = 1.7640\text{E-}004 * x + 0.0015$$

$$R = 1.0000$$

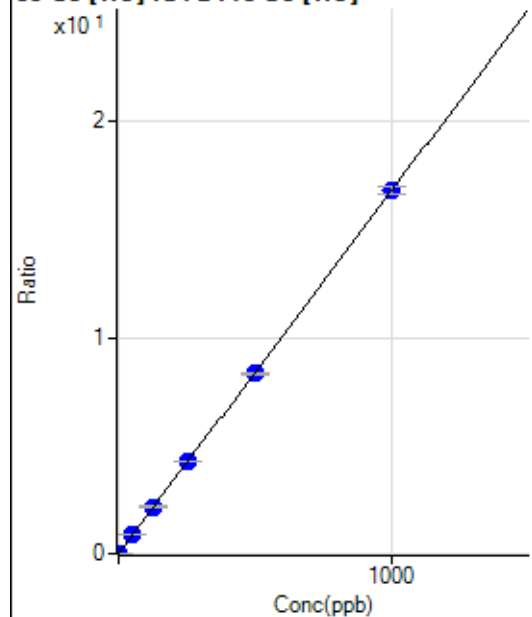
$$DL = 5.664$$

$$BEC = 8.768$$

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	50.00	0.0006	P	42.1
2	☐	1.000	1.026	1512.32	0.0178	P	3.3
3	☐	50.000	51.717	74148.30	0.8697	P	1.0
4	☐	125.000	129.291	183313.53	2.1734	P	1.9
5	☐	250.000	255.549	365460.02	4.2953	P	0.6
6	☐	500.000	495.989	713185.26	8.3360	P	0.2
7	☐	1000.000	999.996	1416142.60	16.8062	P	2.2
8	☐			2947.00	0.0344	P	2.3

$$y = 0.0168 * x + 5.8967\text{E-}004$$

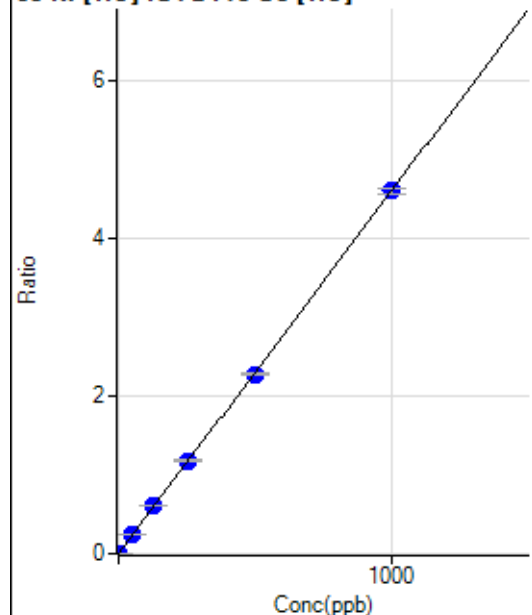
$$R = 1.0000$$

$$DL = 0.04433$$

$$BEC = 0.03509$$

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	160.00	0.0019	P	9.6
2	☐	1.000	0.990	545.57	0.0064	P	9.8
3	☐	50.000	52.575	20751.90	0.2434	P	1.9
4	☐	125.000	130.796	50835.98	0.6027	P	1.5
5	☐	250.000	255.723	100107.92	1.1766	P	0.9
6	☐	500.000	495.257	194795.01	2.2769	P	1.1
7	☐	1000.000	1000.088	387273.66	4.5959	P	1.8
8	☐			2601.38	0.0304	P	5.0

$$y = 0.0046 * x + 0.0019$$

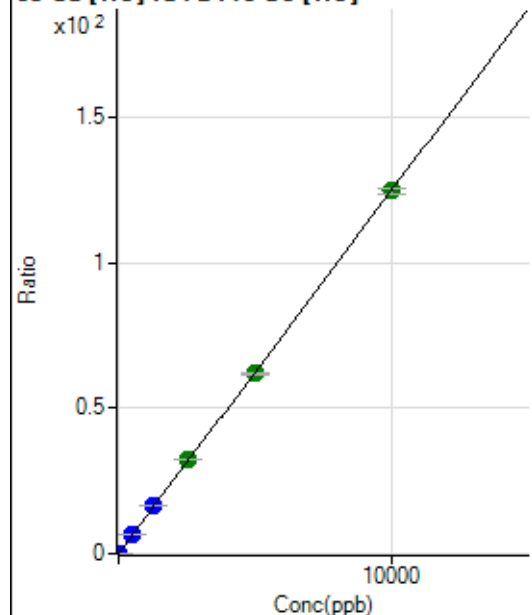
$$R = 1.0000$$

$$DL = 0.1182$$

$$BEC = 0.4113$$

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	512.24	0.0060	P	4.3
2	☐	2.000	1.859	2480.24	0.0292	P	5.5
3	☐	500.000	523.752	558049.16	6.5455	P	0.7
4	☐	1250.000	1310.149	1380272.58	16.3643	P	1.4
5	☐	2500.000	2597.285	2759706.18	32.4352	A	1.0
6	☐	5000.000	4957.879	5296755.44	61.9090	A	1.2
7	☐	10000.000	9988.033	10509583.87	124.7145	A	1.5
8	☐			7366.41	0.0860	P	4.3

$$y = 0.0125 * x + 0.0060$$

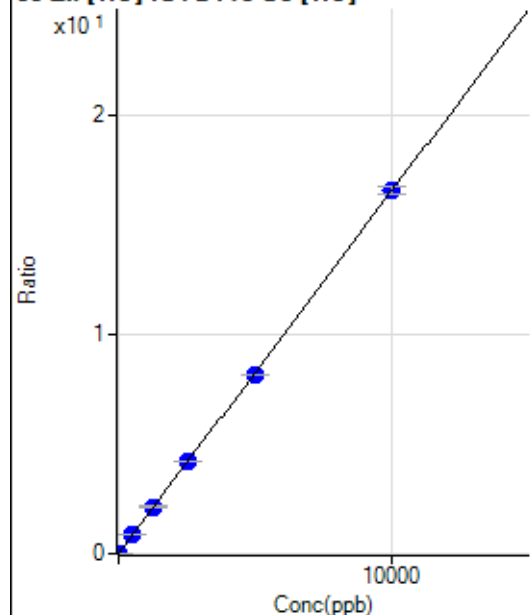
$$R = 0.9999$$

$$DL = 0.06241$$

$$BEC = 0.4837$$

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	106.67	0.0013	P	17.0
2	☐	2.000	2.022	390.01	0.0046	P	2.5
3	☐	500.000	518.870	73206.74	0.8587	P	0.3
4	☐	1250.000	1298.499	181079.73	2.1469	P	2.0
5	☐	2500.000	2546.960	358196.02	4.2100	P	0.9
6	☐	5000.000	4943.743	699016.13	8.1705	P	0.4
7	☐	10000.000	10009.383	1393811.77	16.5411	P	2.0
8	☐			4050.62	0.0473	P	5.1

$$y = 0.0017 * x + 0.0013$$

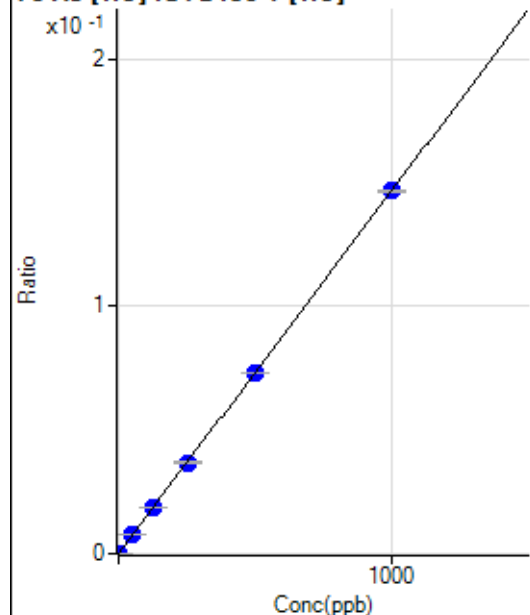
$$R = 1.0000$$

$$DL = 0.3886$$

$$BEC = 0.7614$$

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	6.00	0.0000	P	34.7
2	☐	1.000	0.946	104.01	0.0001	P	14.4
3	☐	50.000	51.152	5299.54	0.0075	P	1.3
4	☐	125.000	127.113	13122.08	0.0186	P	1.3
5	☐	250.000	249.533	26097.28	0.0366	P	2.0
6	☐	500.000	499.080	51351.20	0.0732	P	0.4
7	☐	1000.000	1000.255	103411.27	0.1467	P	0.8
8	☐			65.68	0.0001	P	11.3

$$y = 1.4665E-004 * x + 8.6252E-006$$

$$R = 1.0000$$

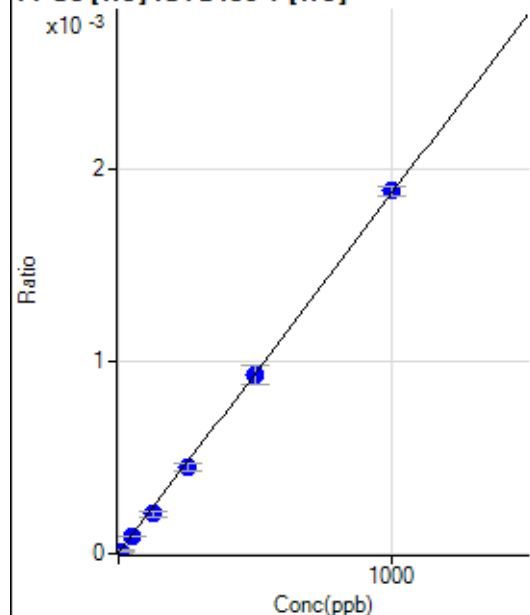
$$DL = 0.06116$$

$$BEC = 0.05881$$

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	2.22	0.0000	P	173.2
2	☐	5.000	5.806	10.00	0.0000	P	86.8
3	☐	50.000	46.215	63.33	0.0001	P	0.6
4	☐	125.000	109.574	146.67	0.0002	P	14.5
5	☐	250.000	237.254	318.90	0.0004	P	9.3
6	☐	500.000	495.357	653.36	0.0009	P	10.1
7	☐	1000.000	1007.621	1332.30	0.0019	P	2.8
8	☐			5.56	0.0000	P	92.3

$$y = 1.8724\text{E-}006 * x + 3.2179\text{E-}006$$

$$R = 0.9998$$

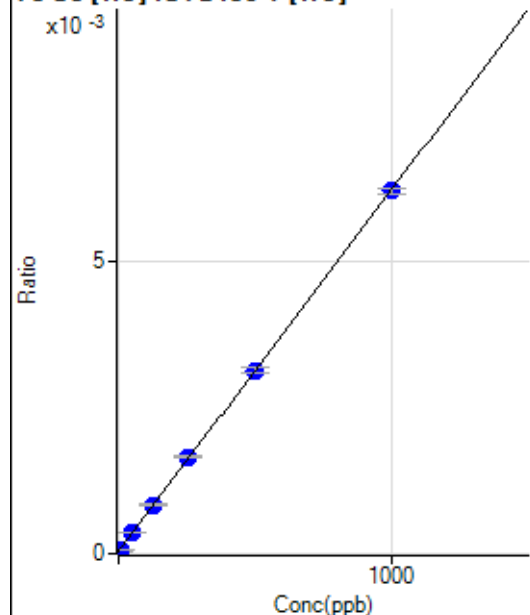
$$DL = 8.93$$

$$BEC = 1.719$$

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	31.33	0.0000	P	38.1
2	☐	5.000	4.920	53.01	0.0001	P	6.2
3	☐	50.000	50.865	253.03	0.0004	P	3.6
4	☐	125.000	127.113	583.07	0.0008	P	4.2
5	☐	250.000	260.075	1175.51	0.0016	P	2.7
6	☐	500.000	500.420	2196.06	0.0031	P	3.0
7	☐	1000.000	996.964	4366.12	0.0062	P	1.7
8	☐			28.33	0.0000	P	25.3

$$y = 6.1667\text{E-}006 * x + 4.4924\text{E-}005$$

$$R = 0.9999$$

$$DL = 8.322$$

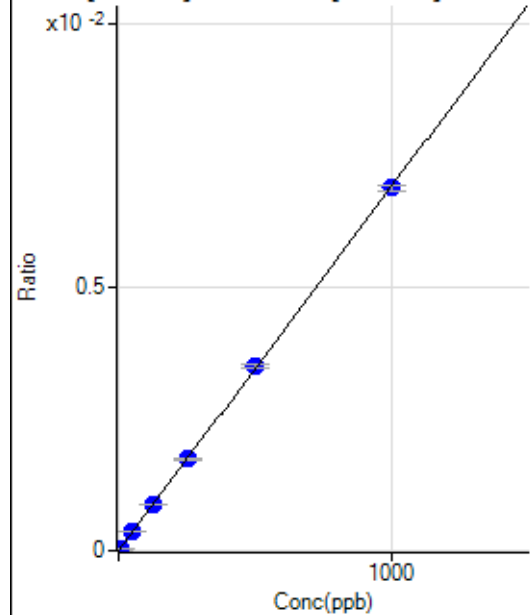
$$BEC = 7.285$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			2906.65		P	8.3
2	☐			2793.15		P	2.8
3	☐			2813.18		P	1.8
4	☐			2973.40		P	7.0
5	☐			2960.04		P	7.5
6	☐			2793.14		P	3.9
7	☐			2846.58		P	10.2
8	☐			3020.11		P	7.3

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	8.31	0.0000	P	369.4
2	☐	5.000	4.789	232.72	0.0000	P	27.0
3	☐	50.000	50.932	2477.00	0.0004	P	1.1
4	☐	125.000	125.859	6135.29	0.0009	P	3.0
5	☐	250.000	251.699	12401.69	0.0017	P	1.1
6	☐	500.000	506.976	24605.29	0.0035	P	1.8
7	☐	1000.000	995.934	49046.82	0.0069	P	1.6
8	☐			0.12	0.0000	P	-19017.

$$y = 6.9085E-006 * x + 1.1619E-006$$

$$R = 1.0000$$

$$DL = 1.864$$

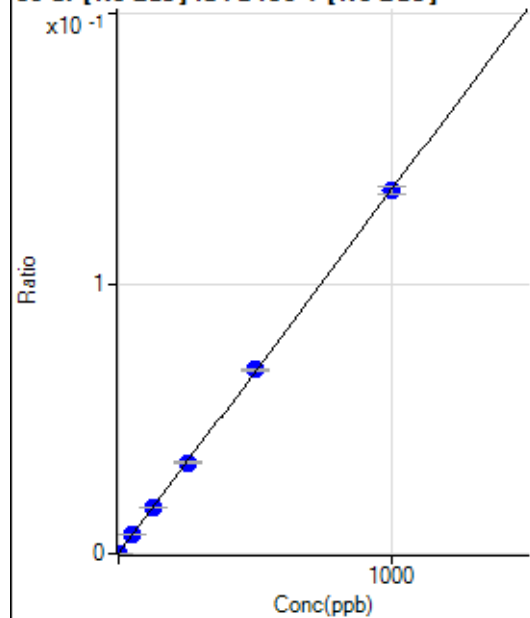
$$BEC = 0.1682$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			404.45		P	10.5
2	☐			405.57		P	8.9
3	☐			408.90		P	8.2
4	☐			444.46		P	7.4
5	☐			425.56		P	4.6
6	☐			436.68		P	7.3
7	☐			428.90		P	5.5
8	☐			445.57		P	5.6

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	680.59	0.0001	P	12.2
2	☐	1.000	0.989	1566.79	0.0002	P	10.8
3	☐	50.000	50.395	48295.21	0.0069	P	2.3
4	☐	125.000	127.050	121256.93	0.0172	P	1.6
5	☐	250.000	248.991	239688.00	0.0336	P	1.5
6	☐	500.000	505.559	478857.89	0.0682	P	1.4
7	☐	1000.000	997.197	957823.85	0.1344	P	2.2
8	☐			6646.20	0.0009	P	2.5

$$y = 1.3467E-004 * x + 9.7336E-005$$

$$R = 1.0000$$

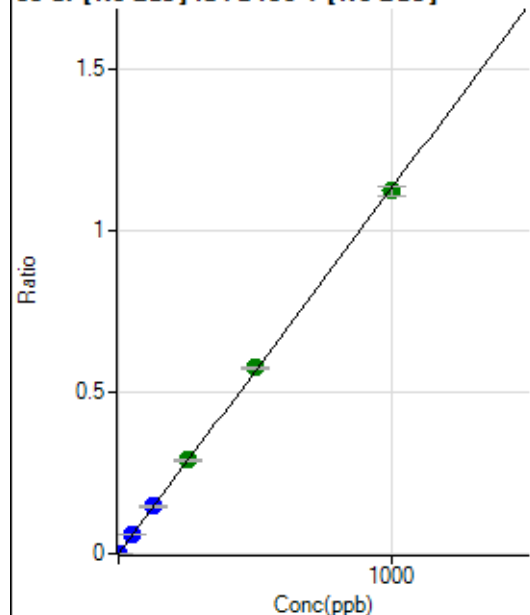
$$DL = 0.2648$$

$$BEC = 0.7228$$

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	138.89	0.0000	P	23.6
2	☐	1.000	1.020	7994.18	0.0012	P	2.8
3	☐	50.000	52.597	418247.66	0.0596	P	0.5
4	☐	125.000	129.750	1035974.92	0.1470	P	2.3
5	☐	250.000	255.547	2063962.89	0.2896	A	0.2
6	☐	500.000	509.651	4055952.61	0.5775	A	1.0
7	☐	1000.000	993.064	8019164.33	1.1252	A	2.3
8	☐			50129.38	0.0070	P	2.8

$$y = 0.0011 * x + 1.9879E-005$$

$$R = 0.9999$$

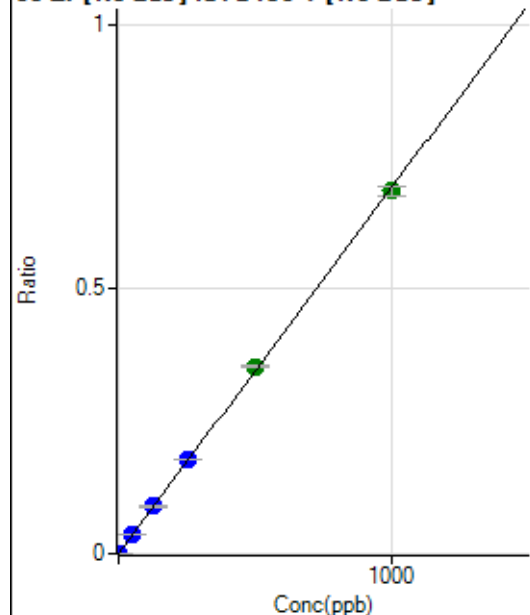
$$DL = 0.01244$$

$$BEC = 0.01755$$

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	275.01	0.0000	P	7.3
2	☐	1.000	1.003	4984.37	0.0007	P	4.2
3	☐	50.000	51.955	252431.64	0.0360	P	0.9
4	☐	125.000	128.911	628609.40	0.0892	P	2.3
5	☐	250.000	257.058	1267674.32	0.1779	P	1.2
6	☐	500.000	512.162	2488545.95	0.3543	A	1.2
7	☐	1000.000	991.568	4888868.16	0.6860	A	2.7
8	☐			2797.58	0.0004	P	3.3

$$y = 6.9176E-004 * x + 3.9375E-005$$

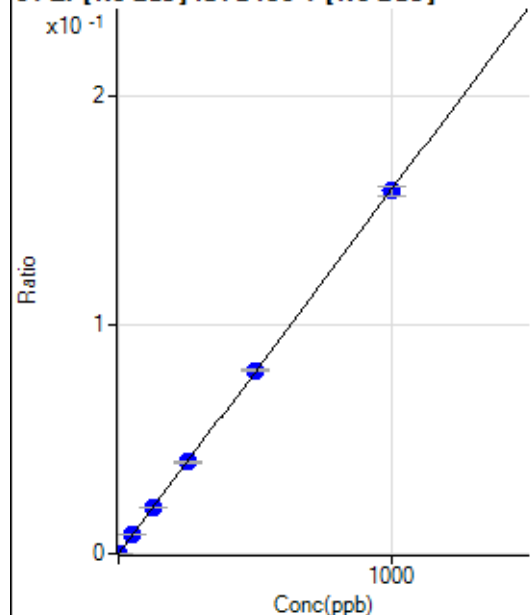
$$R = 0.9999$$

$$DL = 0.01254$$

$$BEC = 0.05692$$

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	75.00	0.0000	P	22.4
2	☐	1.000	0.793	930.62	0.0001	P	10.8
3	☐	50.000	51.224	57215.04	0.0082	P	0.7
4	☐	125.000	126.695	142008.73	0.0202	P	2.3
5	☐	250.000	251.666	285274.71	0.0400	P	0.9
6	☐	500.000	503.888	562743.35	0.0801	P	1.3
7	☐	1000.000	997.367	1130225.62	0.1586	P	2.5
8	☐			591.69	0.0001	P	20.5

$$y = 1.5900\text{E-}004 * x + 1.0746\text{E-}005$$

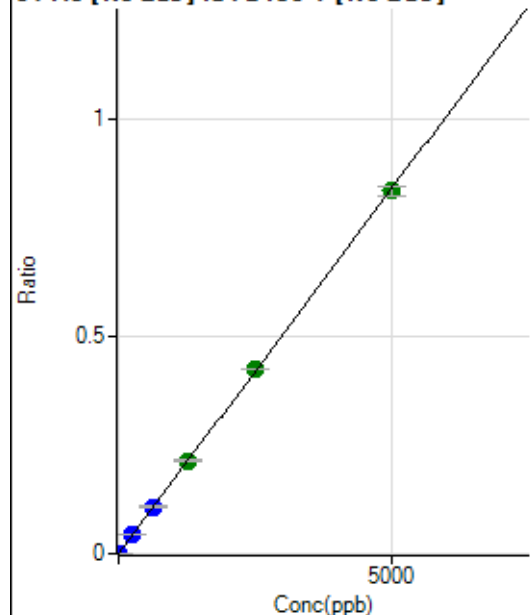
$$R = 1.0000$$

$$DL = 0.04533$$

$$BEC = 0.06758$$

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	94.45	0.0000	P	31.4
2	☐	5.000	5.047	5859.73	0.0009	P	1.6
3	☐	250.000	261.175	308091.42	0.0439	P	0.9
4	☐	625.000	641.454	759663.92	0.1078	P	3.2
5	☐	1250.000	1276.065	1528787.57	0.2145	A	1.1
6	☐	2500.000	2536.373	2994331.21	0.4263	A	0.4
7	☐	5000.000	4972.682	5956678.09	0.8358	A	2.5
8	☐			3595.02	0.0005	P	5.7

$$y = 1.6808\text{E-}004 * x + 1.3535\text{E-}005$$

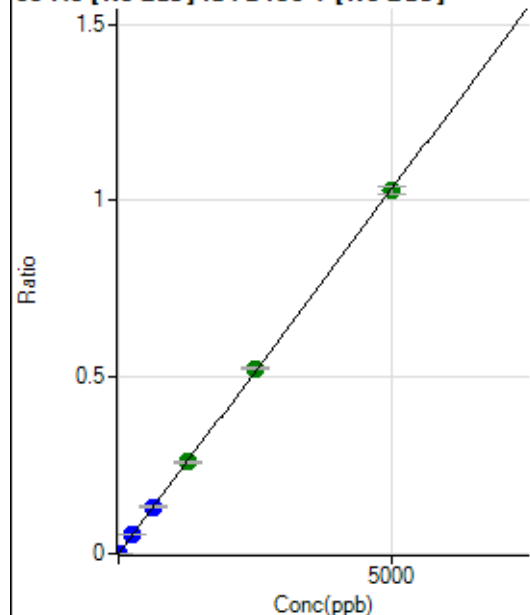
$$R = 0.9999$$

$$DL = 0.07577$$

$$BEC = 0.08053$$

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	16.67	0.0000	P	48.1
2	☐	5.000	5.058	7118.68	0.0010	P	6.1
3	☐	250.000	258.313	374297.31	0.0534	P	0.7
4	☐	625.000	640.567	932129.26	0.1323	P	2.4
5	☐	1250.000	1261.162	1856453.65	0.2605	A	1.3
6	☐	2500.000	2534.141	3675765.53	0.5234	A	1.0
7	☐	5000.000	4977.777	7326771.26	1.0280	A	2.3
8	☐			4492.51	0.0006	P	7.5

$$y = 2.0653\text{E-}004 * x + 2.3743\text{E-}006$$

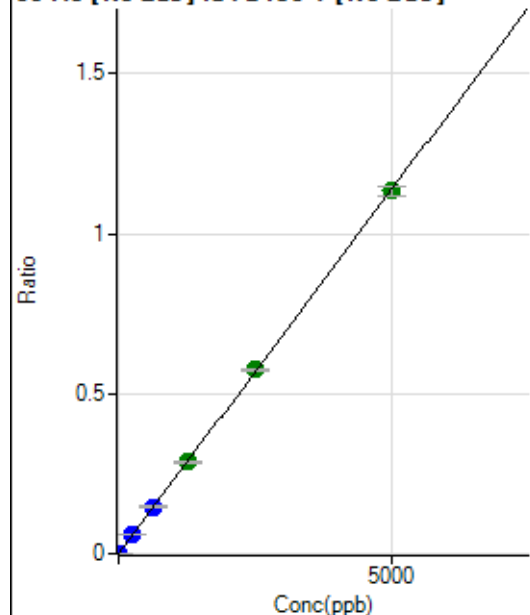
$$R = 1.0000$$

$$DL = 0.01659$$

$$BEC = 0.0115$$

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	58.34	0.0000	P	14.4
2	☐	5.000	4.758	7418.84	0.0011	P	4.4
3	☐	250.000	259.526	414399.07	0.0591	P	0.7
4	☐	625.000	641.317	1028294.01	0.1459	P	2.4
5	☐	1250.000	1259.635	2043132.21	0.2866	A	1.0
6	☐	2500.000	2522.912	4032119.10	0.5741	A	1.0
7	☐	5000.000	4983.619	8082528.92	1.1341	A	2.5
8	☐			5276.13	0.0007	P	5.8

$$y = 2.2756\text{E-}004 * x + 8.3594\text{E-}006$$

$$R = 1.0000$$

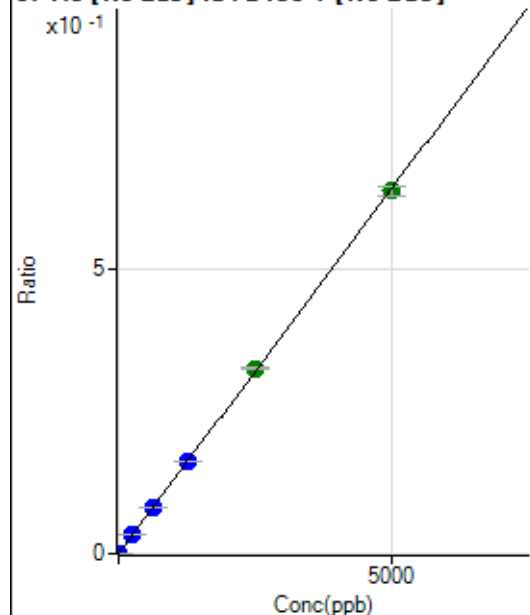
$$DL = 0.01584$$

$$BEC = 0.03674$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	13.89	0.0000	P	66.8
2	☐	5.000	4.833	4236.87	0.0006	P	1.1
3	☐	250.000	256.743	231525.59	0.0330	P	0.7
4	☐	625.000	632.191	572502.82	0.0813	P	2.6
5	☐	1250.000	1266.461	1160254.39	0.1628	P	0.1
6	☐	2500.000	2541.947	2294647.60	0.3267	A	1.0
7	☐	5000.000	4973.675	4555983.13	0.6393	A	2.7
8	☐			2736.46	0.0004	P	6.3

$$y = 1.2853\text{E-}004 * x + 1.9695\text{E-}006$$

$$R = 0.9999$$

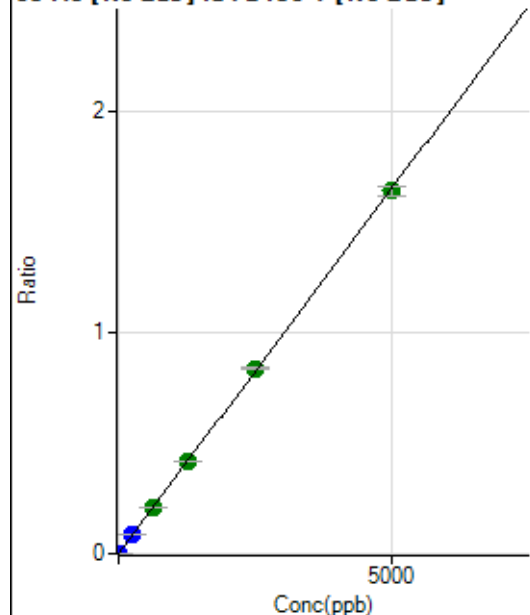
$$DL = 0.03072$$

$$BEC = 0.01532$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	5.55	0.0000	P	86.6
2	☐	5.000	4.859	10912.93	0.0016	P	0.6
3	☐	250.000	254.840	590326.09	0.0841	P	0.9
4	☐	625.000	628.967	1463267.60	0.2077	A	2.1
5	☐	1250.000	1272.558	2995037.30	0.4202	A	0.6
6	☐	2500.000	2542.522	5895997.92	0.8395	A	0.8
7	☐	5000.000	4972.362	11700775.09	1.6418	A	2.9
8	☐			7093.69	0.0010	P	5.6

$$y = 3.3018\text{E-}004 * x + 8.0645\text{E-}007$$

$$R = 0.9999$$

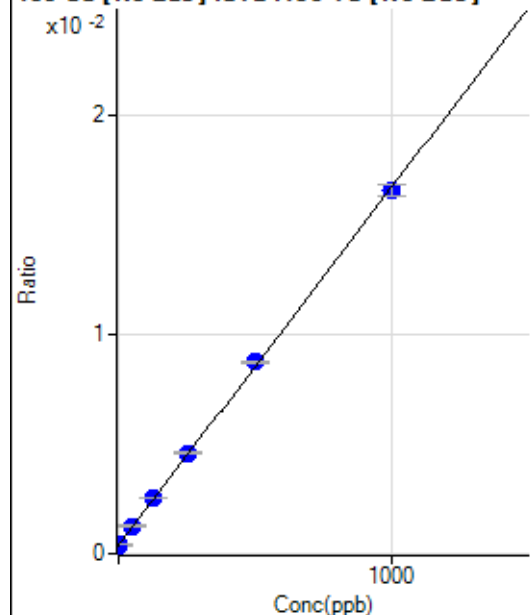
$$DL = 0.006346$$

$$BEC = 0.002442$$

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	1669.59	0.0004	P	0.2
2	☐	1.000	2.480	1833.50	0.0004	P	4.0
3	☐	50.000	53.043	5584.63	0.0012	P	5.4
4	☐	125.000	130.511	11421.72	0.0025	P	0.8
5	☐	250.000	258.534	21208.46	0.0046	P	3.6
6	☐	500.000	513.148	39855.62	0.0088	P	0.8
7	☐	1000.000	990.450	77344.52	0.0166	P	3.1
8	☐			1747.39	0.0004	P	3.5

$$y = 1.6333\text{E-}005 * x + 3.8217\text{E-}004$$

$$R = 0.9998$$

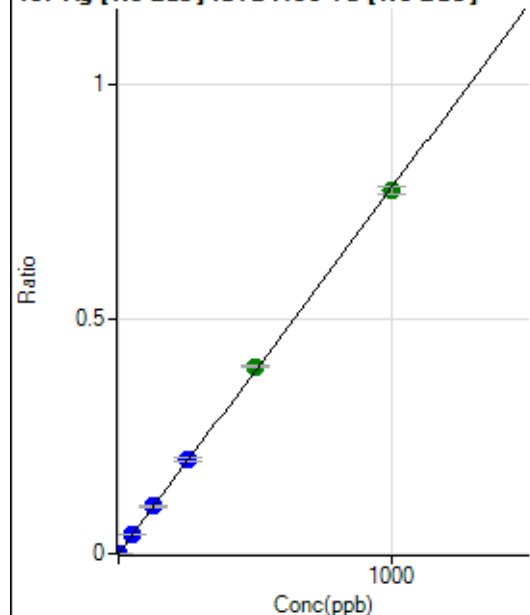
$$DL = 0.1587$$

$$BEC = 23.4$$

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	47.22	0.0000	P	46.1
2	☐	1.000	0.977	3353.29	0.0008	P	3.9
3	☐	50.000	52.876	184551.57	0.0413	P	1.7
4	☐	125.000	128.936	456978.66	0.1006	P	3.6
5	☐	250.000	257.282	924984.51	0.2008	P	2.7
6	☐	500.000	510.680	1812645.29	0.3986	A	1.1
7	☐	1000.000	992.204	3617317.27	0.7744	A	2.0
8	☐			2894.84	0.0006	P	5.0

$$y = 7.8044\text{E-}004 * x + 1.0884\text{E-}005$$

$$R = 0.9999$$

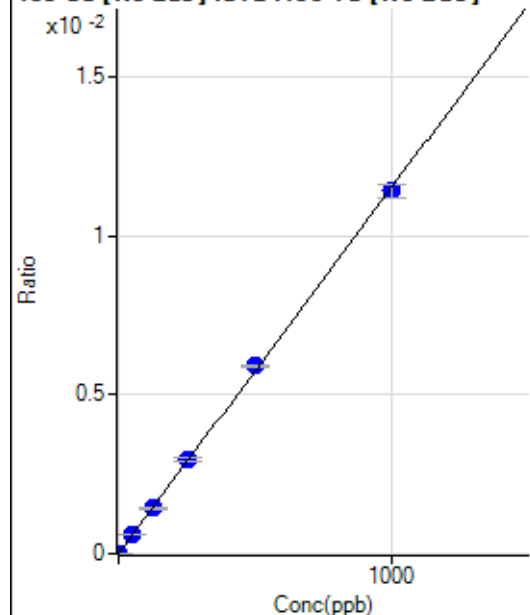
$$DL = 0.01928$$

$$BEC = 0.01395$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	8.34	0.0000	P	88.2
2	☐	1.000	0.889	52.78	0.0000	P	20.7
3	☐	50.000	52.488	2714.19	0.0006	P	6.3
4	☐	125.000	124.637	6544.69	0.0014	P	3.0
5	☐	250.000	257.104	13666.63	0.0030	P	3.6
6	☐	500.000	513.763	26956.94	0.0059	P	1.2
7	☐	1000.000	991.263	53404.25	0.0114	P	3.6
8	☐			69.45	0.0000	P	40.1

$$y = 1.1533\text{E-}005 * x + 1.9272\text{E-}006$$

$$R = 0.9998$$

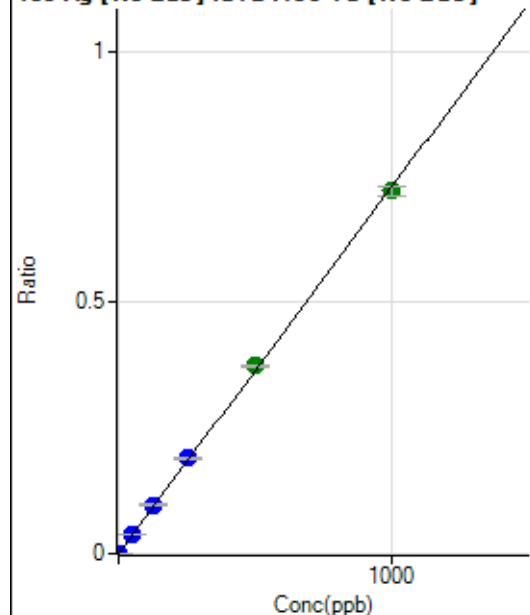
$$DL = 0.4423$$

$$BEC = 0.1671$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	33.33	0.0000	P	40.9
2	☐	1.000	0.961	3072.65	0.0007	P	4.8
3	☐	50.000	53.563	174687.41	0.0391	P	1.8
4	☐	125.000	132.174	437704.90	0.0964	P	3.4
5	☐	250.000	259.903	873121.45	0.1895	P	2.3
6	☐	500.000	512.558	1699940.18	0.3738	A	0.4
7	☐	1000.000	990.170	3372732.04	0.7221	A	2.7
8	☐			2608.64	0.0006	P	8.1

$$y = 7.2922\text{E-}004 * x + 7.5862\text{E-}006$$

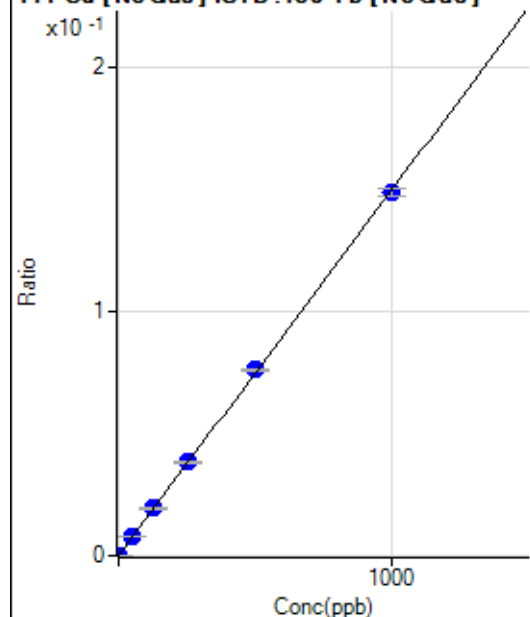
$$R = 0.9998$$

$$DL = 0.01277$$

$$BEC = 0.0104$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	335.03	0.0001	P	3.6
2	☐	1.000	1.152	1081.17	0.0002	P	2.1
3	☐	50.000	52.177	35289.30	0.0079	P	1.1
4	☐	125.000	129.736	88578.02	0.0195	P	3.7
5	☐	250.000	256.608	177405.52	0.0385	P	2.2
6	☐	500.000	508.982	347048.05	0.0763	P	1.6
7	☐	1000.000	993.156	695202.48	0.1488	P	2.2
8	☐			791.15	0.0002	P	10.1

$$y = 1.4977E-004 * x + 7.6647E-005$$

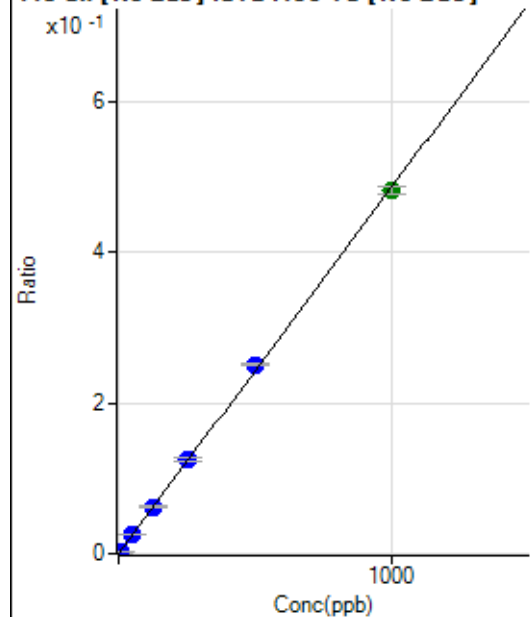
$$R = 0.9999$$

$$DL = 0.05515$$

$$BEC = 0.5117$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	230.57	0.0001	P	15.9
2	☐	5.000	4.914	10587.71	0.0024	P	2.6
3	☐	50.000	51.851	112882.92	0.0252	P	2.0
4	☐	125.000	127.819	282354.48	0.0622	P	2.2
5	☐	250.000	256.553	574473.10	0.1247	P	3.1
6	☐	500.000	515.144	1138709.39	0.2504	P	1.0
7	☐	1000.000	990.345	2248221.10	0.4813	A	2.2
8	☐			1652.93	0.0004	P	13.8

$$y = 4.8593E-004 * x + 5.2845E-005$$

$$R = 0.9998$$

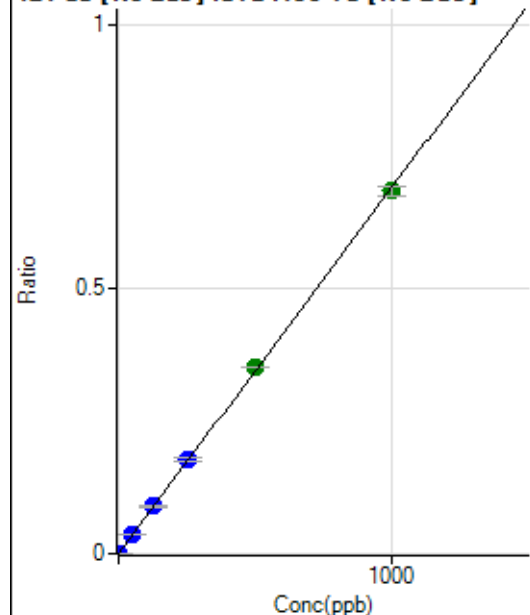
$$DL = 0.05191$$

$$BEC = 0.1088$$

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	19.45	0.0000	P	109.4
2	☐	2.000	1.940	5834.74	0.0013	P	1.4
3	☐	50.000	52.648	162677.86	0.0364	P	0.7
4	☐	125.000	129.189	405433.61	0.0893	P	2.2
5	☐	250.000	257.735	820271.03	0.1781	P	2.8
6	☐	500.000	510.706	1604762.95	0.3529	A	0.6
7	☐	1000.000	992.058	3201634.10	0.6854	A	2.5
8	☐			3708.93	0.0008	P	3.3

$$y = 6.9090\text{E-}004 * x + 4.4832\text{E-}006$$

$$R = 0.9999$$

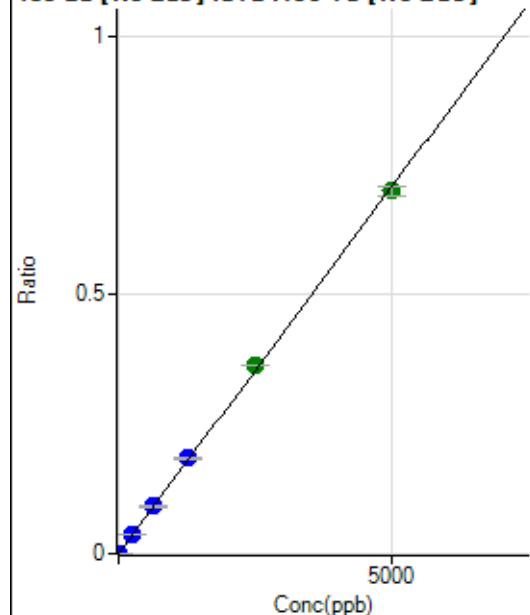
$$DL = 0.02131$$

$$BEC = 0.006489$$

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	19.45	0.0000	P	107.3
2	☐	10.000	9.998	6154.34	0.0014	P	1.7
3	☐	250.000	262.941	166312.52	0.0372	P	0.3
4	☐	625.000	652.374	419044.39	0.0923	P	3.0
5	☐	1250.000	1301.993	848416.11	0.1842	P	1.7
6	☐	2500.000	2566.382	1650857.16	0.3630	A	0.2
7	☐	5000.000	4949.742	3270062.79	0.7001	A	3.0
8	☐			7115.93	0.0015	P	1.8

$$y = 1.4144\text{E-}004 * x + 4.4930\text{E-}006$$

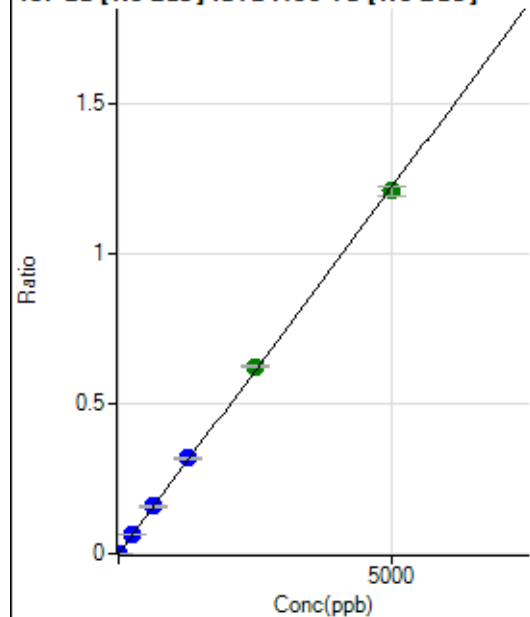
$$R = 0.9998$$

$$DL = 0.1023$$

$$BEC = 0.03177$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	25.00	0.0000	P	34.5
2	☐	10.000	9.956	10554.42	0.0024	P	4.0
3	☐	250.000	263.019	286792.26	0.0641	P	0.4
4	☐	625.000	649.475	719174.14	0.1584	P	3.1
5	☐	1250.000	1305.267	1466047.94	0.3183	P	2.7
6	☐	2500.000	2557.286	2835877.65	0.6235	A	0.4
7	☐	5000.000	4953.830	5642032.24	1.2079	A	2.7
8	☐			12094.59	0.0026	P	2.0

$$y = 2.4383E-004 * x + 5.7334E-006$$

$$R = 0.9998$$

$$DL = 0.02431$$

$$BEC = 0.02351$$

Weight: <None>

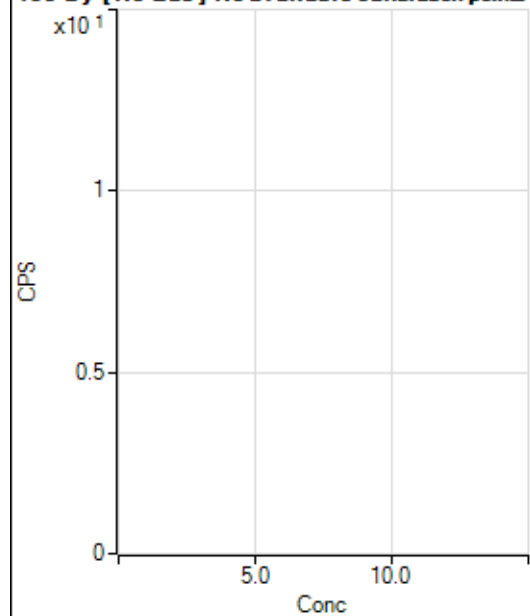
Min Conc: 0

150 Nd [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			6.67		P	173.2
2	☐			13.34		P	86.6
3	☐			26.67		P	43.3
4	☐			40.00		P	16.7
5	☐			40.00		P	16.7
6	☐			62.22		P	37.6
7	☐			120.01		P	9.6
8	☐			15.56		P	98.9

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			1.11		P	173.2
2	☐			0.00		P	
3	☐			2.22		P	86.6
4	☐			3.33		P	100.1
5	☐			1.11		P	173.2
6	☐			10.00		P	88.2
7	☐			11.11		P	124.9
8	☐			3.33		P	100.1

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			16.66		P	86.6
2	☐			8.33		P	100.0
3	☐			19.44		P	65.5
4	☐			13.89		P	34.7
5	☐			30.55		P	15.7
6	☐			77.78		P	43.3
7	☐			66.67		P	21.6
8	☐			219.45		P	48.8

156 Dy [He] No available calibration points

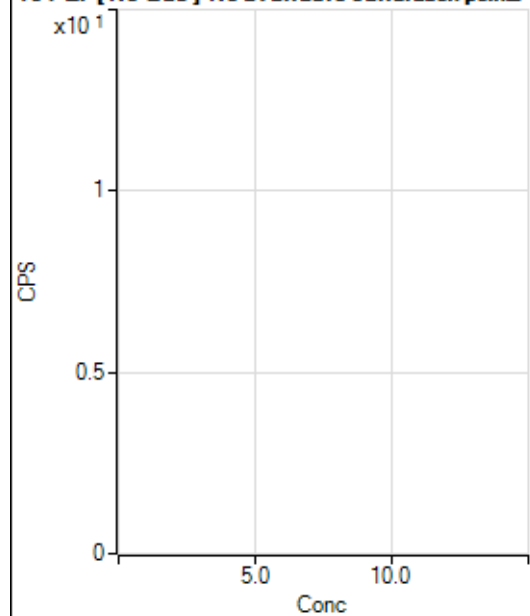
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			3.33		P	100.1
2	☐			0.00		P	
3	☐			3.33		P	100.1
4	☐			6.67		P	50.0
5	☐			12.22		P	15.7
6	☐			24.44		P	34.3
7	☐			26.67		P	0.0
8	☐			90.00		P	22.5

160 Gd [No Gas] Noavailable calibration poin_

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			30.56		P	31.5
2	☐			52.78		P	32.9
3	☐			66.67		P	21.7
4	☐			41.67		P	52.9
5	☐			47.22		P	50.9
6	☐			52.78		P	39.7
7	☐			94.45		P	22.2
8	☐			261.12		P	6.6

160 Gd [He] No available calibration points

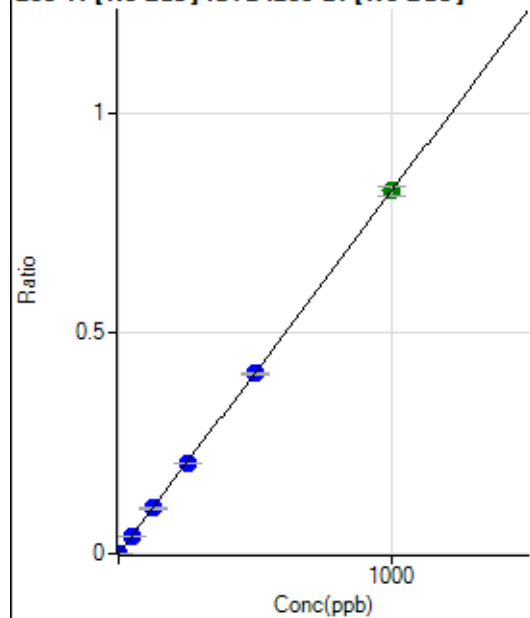
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			18.89		P	27.0
2	☐			12.22		P	15.7
3	☐			15.56		P	32.7
4	☐			20.00		P	16.7
5	☐			21.11		P	24.1
6	☐			23.33		P	42.9
7	☐			31.11		P	48.3
8	☐			111.11		P	19.5

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			22.22		P	108.3
2	☐			19.44		P	65.5
3	☐			27.78		P	62.5
4	☐			38.89		P	49.5
5	☐			25.00		P	33.3
6	☐			22.22		P	43.3
7	☐			19.45		P	24.7
8	☐			50.00		P	76.4

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			13.33		P	50.0
2	☐			5.56		P	91.6
3	☐			7.78		P	137.8
4	☐			8.89		P	108.3
5	☐			5.56		P	91.6
6	☐			7.78		P	49.5
7	☐			14.44		P	66.6
8	☐			18.89		P	36.7

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	25.00	0.0000	P	66.8
2	☐	1.000	0.954	1941.87	0.0008	P	8.5
3	☐	50.000	49.590	102777.43	0.0407	P	0.5
4	☐	125.000	124.955	260010.97	0.1026	P	3.7
5	☐	250.000	249.537	534125.35	0.2050	P	1.4
6	☐	500.000	497.993	1051844.33	0.4090	P	1.3
7	☐	1000.000	1001.145	2112271.10	0.8222	A	2.6
8	☐			1991.88	0.0008	P	14.3

$$y = 8.2128E-004 * x + 9.9725E-006$$

$$R = 1.0000$$

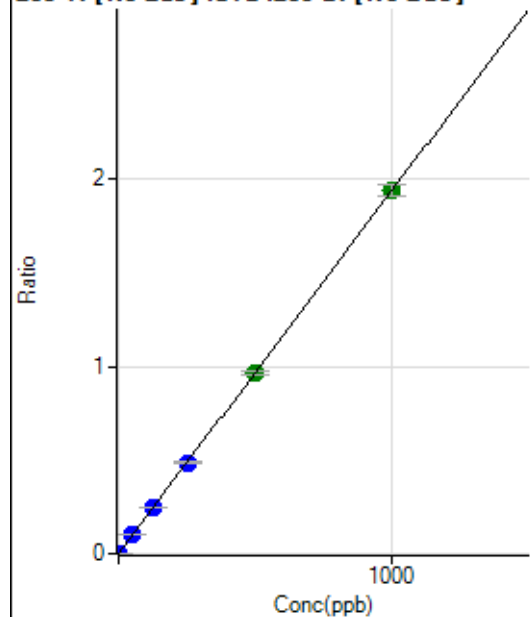
$$DL = 0.02433$$

$$BEC = 0.01214$$

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	58.34	0.0000	P	88.9
2	☐	1.000	0.921	4417.53	0.0018	P	1.6
3	☐	50.000	51.177	249817.52	0.0990	P	1.4
4	☐	125.000	126.715	621189.82	0.2452	P	2.9
5	☐	250.000	250.563	1263297.31	0.4847	P	1.2
6	☐	500.000	497.849	2477243.91	0.9631	A	1.6
7	☐	1000.000	1000.662	4972833.84	1.9358	A	3.1
8	☐			4795.47	0.0019	P	9.0

$$y = 0.0019 * x + 2.3227E-005$$

$$R = 1.0000$$

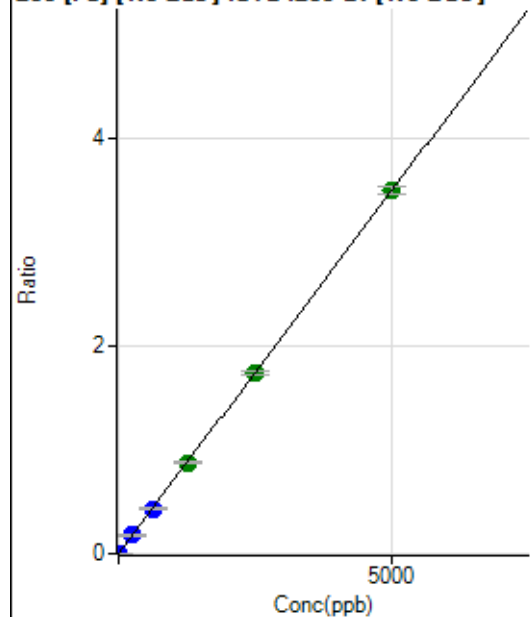
$$DL = 0.03203$$

$$BEC = 0.01201$$

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	383.35	0.0002	P	8.4
2	☐	1.000	0.988	2068.73	0.0008	P	6.9
3	☐	250.000	252.630	446680.32	0.1770	P	0.9
4	☐	625.000	621.511	1103116.86	0.4353	P	2.8
5	☐	1250.000	1255.737	2291866.60	0.8794	A	1.6
6	☐	2500.000	2496.293	4495380.77	1.7481	A	2.3
7	☐	5000.000	5000.724	8996063.22	3.5017	A	2.2
8	☐			10904.78	0.0044	P	2.2

$$y = 7.0020E-004 * x + 1.5295E-004$$

$$R = 1.0000$$

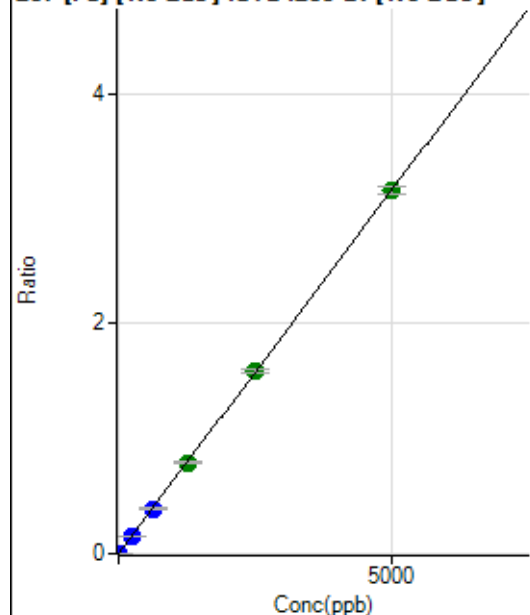
$$DL = 0.05478$$

$$BEC = 0.2184$$

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	357.42	0.0001	P	21.9
2	☐	1.000	0.844	1651.99	0.0007	P	8.5
3	☐	250.000	250.239	399012.98	0.1582	P	0.7
4	☐	625.000	620.548	993343.11	0.3920	P	2.3
5	☐	1250.000	1250.892	2058817.57	0.7900	A	1.4
6	☐	2500.000	2510.997	4078197.83	1.5857	A	1.4
7	☐	5000.000	4994.823	8102886.93	3.1540	A	2.1
8	☐			9516.62	0.0038	P	2.7

$$y = 6.3143\text{E-}004 * x + 1.4255\text{E-}004$$

$$R = 1.0000$$

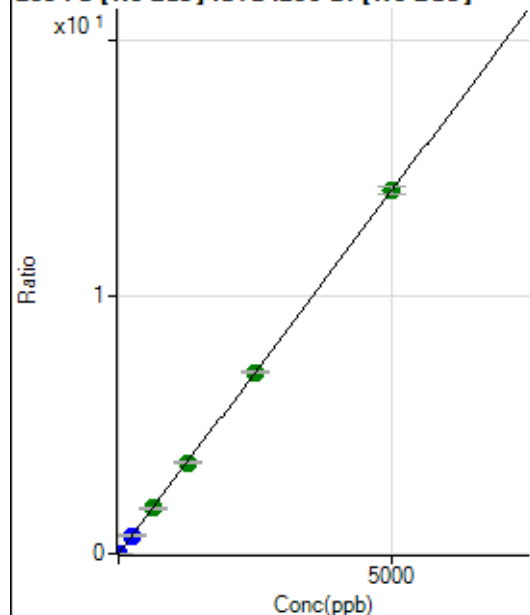
$$DL = 0.1482$$

$$BEC = 0.2258$$

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	1620.44	0.0006	P	2.2
2	☐	1.000	0.916	7914.07	0.0032	P	2.8
3	☐	250.000	250.843	1789673.14	0.7094	P	0.6
4	☐	625.000	627.913	4497097.24	1.7747	A	2.7
5	☐	1250.000	1254.508	9238967.20	3.5451	A	1.0
6	☐	2500.000	2496.226	18140466.08	7.0533	A	1.2
7	☐	5000.000	5000.354	36296463.08	14.1283	A	2.3
8	☐			43696.23	0.0175	P	3.3

$$y = 0.0028 * x + 6.4639\text{E-}004$$

$$R = 1.0000$$

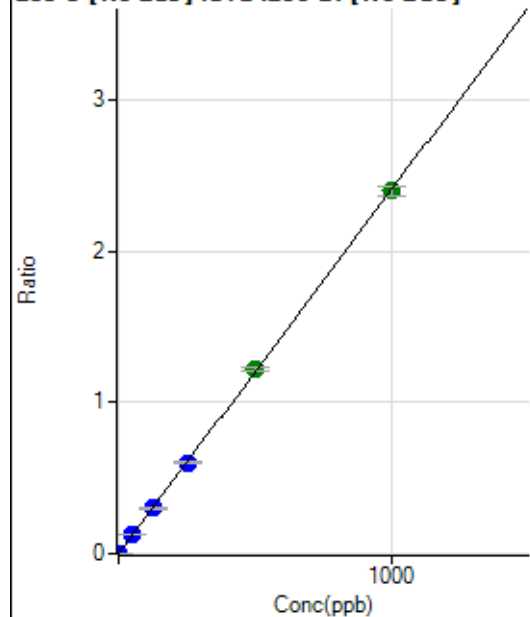
$$DL = 0.01506$$

$$BEC = 0.2288$$

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	8.33	0.0000	P	100.2
2	☐	1.000	0.919	5420.75	0.0022	P	6.8
3	☐	50.000	50.661	307418.45	0.1218	P	1.2
4	☐	125.000	125.354	763847.11	0.3015	P	3.0
5	☐	250.000	250.740	1571449.11	0.6030	P	1.2
6	☐	500.000	506.283	3131005.41	1.2175	A	1.7
7	☐	1000.000	996.596	6156822.19	2.3966	A	2.5
8	☐			2169.70	0.0009	P	4.1

$$y = 0.0024 * x + 3.3244E-006$$

$$R = 1.0000$$

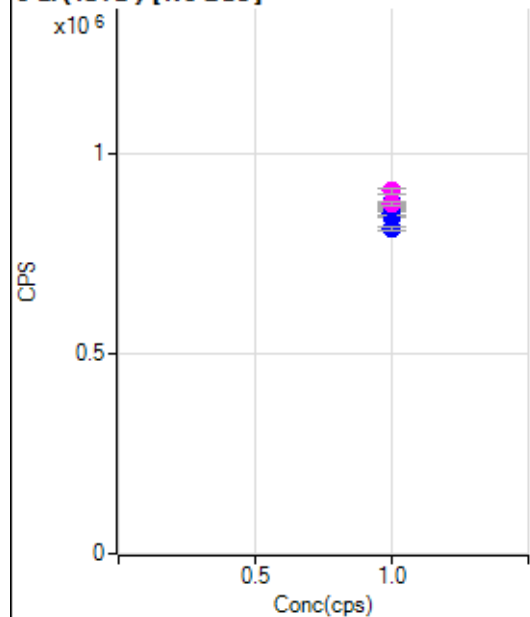
$$DL = 0.004156$$

$$BEC = 0.001382$$

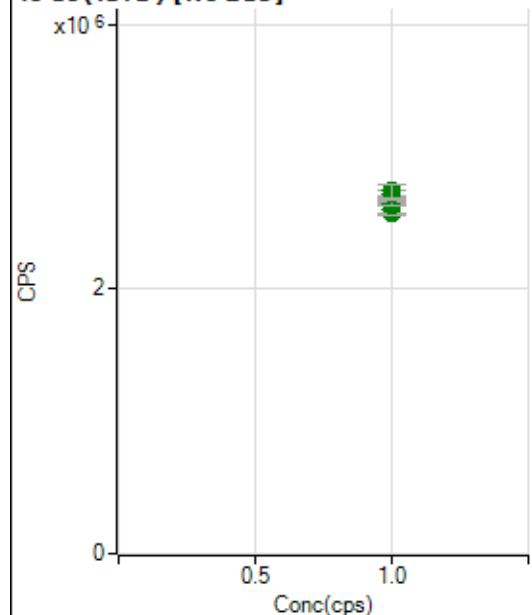
Weight: <None>

Min Conc: 0

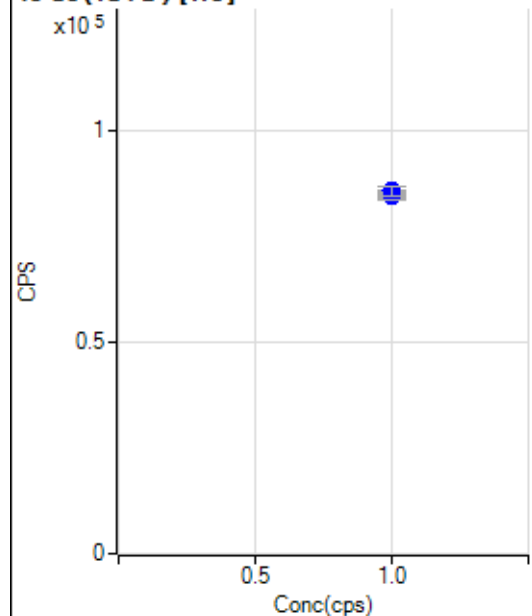
6 Li (ISTD) [No Gas]



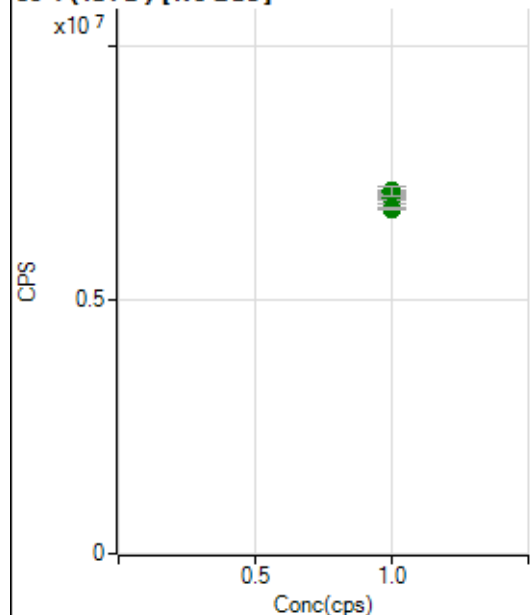
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		842051.38		P	0.5
2	☐	1.000		812351.89		P	1.1
3	☐	1.000		849357.05		P	0.6
4	☐	1.000		863461.19		P	1.4
5	☐	1.000		876779.59		P	0.4
6	☐	1.000		866378.05		P	0.3
7	☐	1.000		873448.21		M	1.4
8	☐	1.000		905576.63		M	1.7

45 Sc (ISTD) [No Gas]

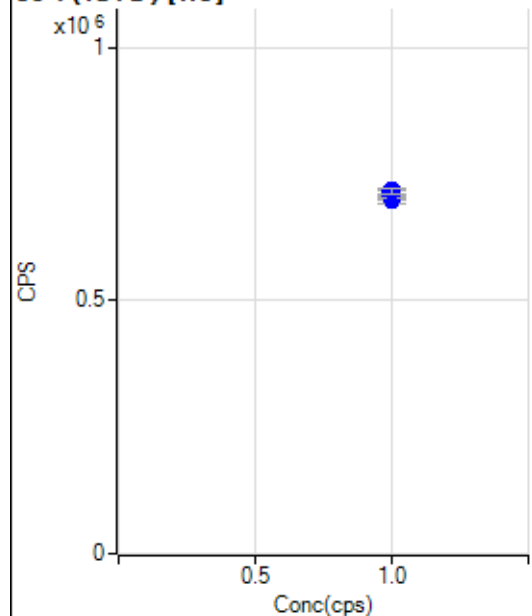
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2594742.13		A	2.9
2	☐	1.000		2567603.07		A	0.6
3	☐	1.000		2635146.33		A	0.3
4	☐	1.000		2668119.60		A	2.9
5	☐	1.000		2646589.99		A	1.5
6	☐	1.000		2643939.79		A	1.3
7	☐	1.000		2708748.55		A	2.2
8	☐	1.000		2740031.49		A	3.7

45 Sc (ISTD) [He]

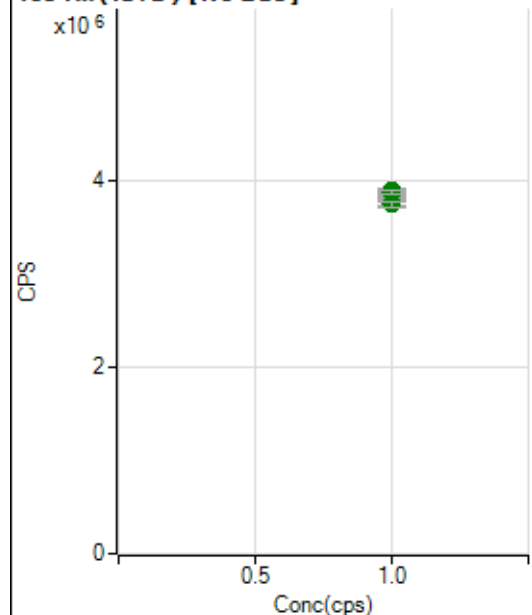
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		84827.94		P	2.6
2	☐	1.000		84797.10		P	0.5
3	☐	1.000		85258.70		P	0.8
4	☐	1.000		84354.74		P	1.1
5	☐	1.000		85086.45		P	0.7
6	☐	1.000		85554.81		P	0.4
7	☐	1.000		84278.71		P	1.4
8	☐	1.000		85677.94		P	2.4

89 Y (ISTD) [No Gas]

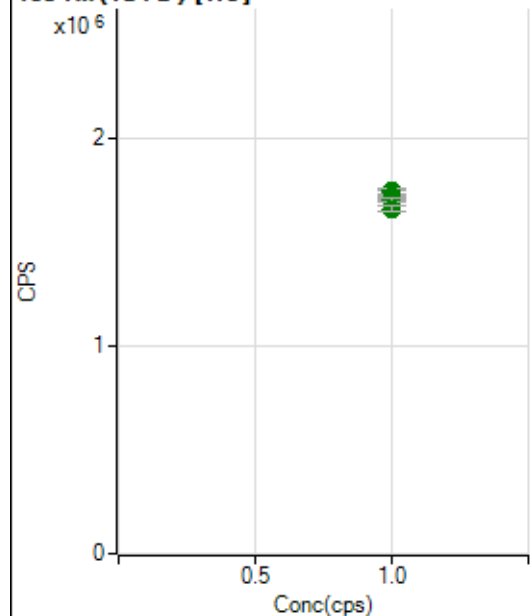
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		6979185.59		A	2.3
2	☐	1.000		6798804.49		A	0.3
3	☐	1.000		7016023.30		A	0.7
4	☐	1.000		7047961.63		A	1.9
5	☐	1.000		7127854.27		A	1.1
6	☐	1.000		7023722.67		A	1.1
7	☐	1.000		7128129.89		A	1.2
8	☐	1.000		7148064.41		A	2.8

89 Y (ISTD) [He]

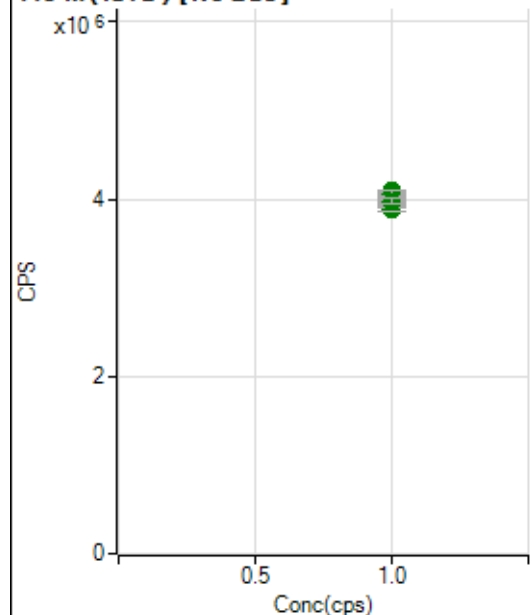
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		698358.63		P	2.0
2	☐	1.000		704708.74		P	1.5
3	☐	1.000		705645.35		P	0.6
4	☐	1.000		703637.47		P	0.6
5	☐	1.000		713123.89		P	1.6
6	☐	1.000		701549.24		P	1.1
7	☐	1.000		704952.23		P	0.8
8	☐	1.000		716072.97		P	1.4

103 Rh (ISTD) [No Gas]

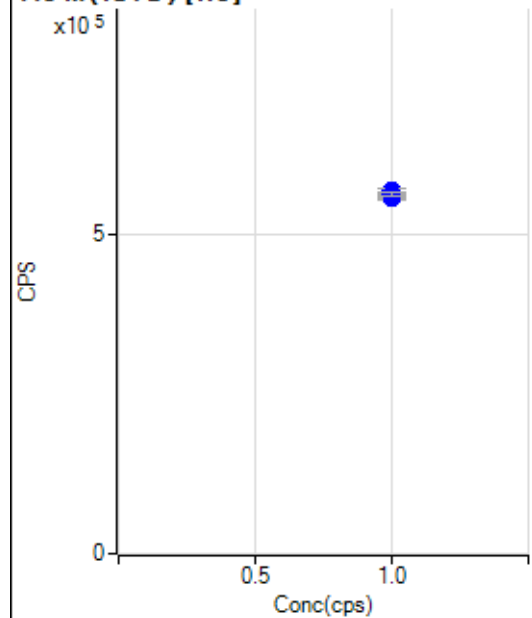
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3801200.22		A	3.3
2	☐	1.000		3775094.48		A	0.5
3	☐	1.000		3807095.05		A	0.9
4	☐	1.000		3875295.44		A	1.7
5	☐	1.000		3888137.80		A	0.6
6	☐	1.000		3846191.15		A	1.3
7	☐	1.000		3875284.07		A	1.3
8	☐	1.000		3746257.55		A	1.8

103 Rh (ISTD) [He]

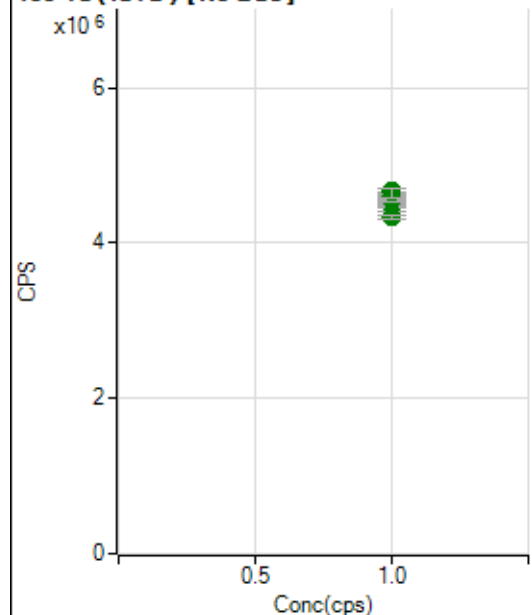
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1738952.65		A	0.9
2	☐	1.000		1707442.19		A	0.1
3	☐	1.000		1716598.69		A	1.5
4	☐	1.000		1723878.79		A	0.5
5	☐	1.000		1745291.48		A	1.8
6	☐	1.000		1720345.11		A	0.1
7	☐	1.000		1702344.11		A	1.2
8	☐	1.000		1657341.83		A	1.7

115 In (ISTD) [No Gas]

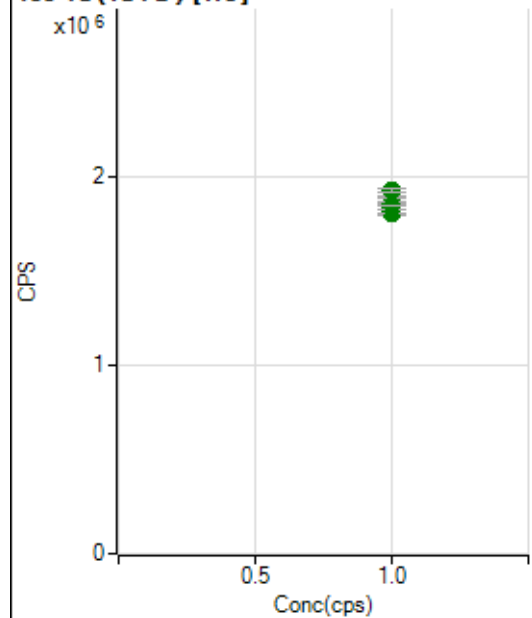
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3949471.63		A	1.4
2	☐	1.000		3889706.76		A	1.2
3	☐	1.000		4001624.38		A	1.7
4	☐	1.000		4003347.58		A	2.3
5	☐	1.000		4090657.56		A	0.4
6	☐	1.000		3988179.12		A	0.2
7	☐	1.000		4064280.76		A	1.7
8	☐	1.000		3969718.89		A	1.6

115 In (ISTD) [He]

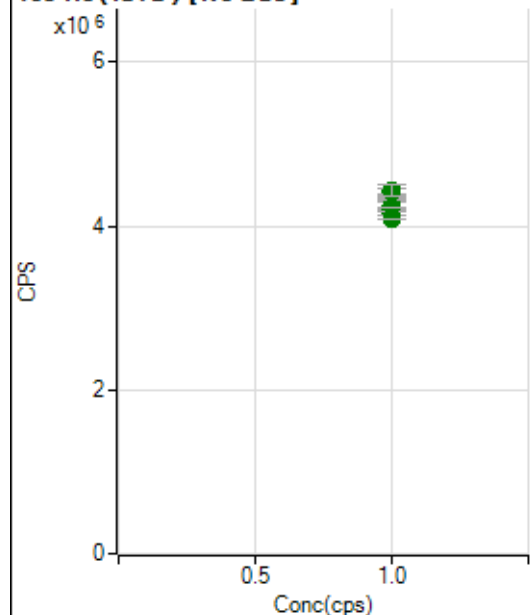
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		560808.27		P	1.9
2	☐	1.000		560036.70		P	1.7
3	☐	1.000		564953.76		P	0.2
4	☐	1.000		560767.34		P	0.6
5	☐	1.000		569561.83		P	1.1
6	☐	1.000		561588.54		P	0.6
7	☐	1.000		558296.30		P	0.4
8	☐	1.000		564848.10		P	0.9

159 Tb (ISTD) [No Gas]

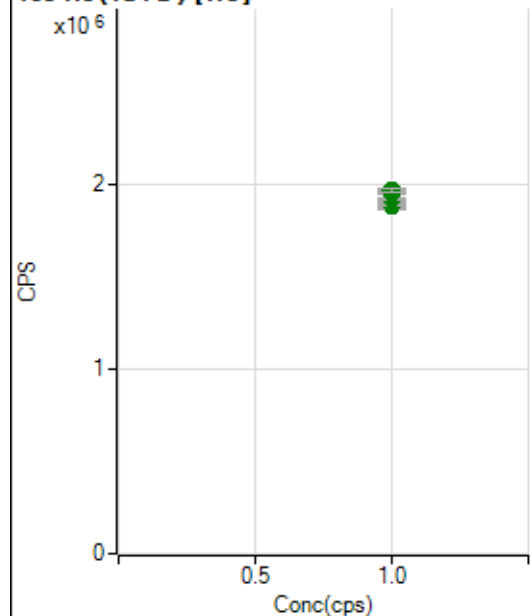
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		4368774.31		A	2.2
2	☐	1.000		4338431.15		A	0.9
3	☐	1.000		4471541.53		A	1.2
4	☐	1.000		4544196.39		A	3.2
5	☐	1.000		4608210.35		A	2.2
6	☐	1.000		4547985.52		A	0.3
7	☐	1.000		4672200.07		A	1.5
8	☐	1.000		4645846.39		A	2.6

159 Tb (ISTD) [He]

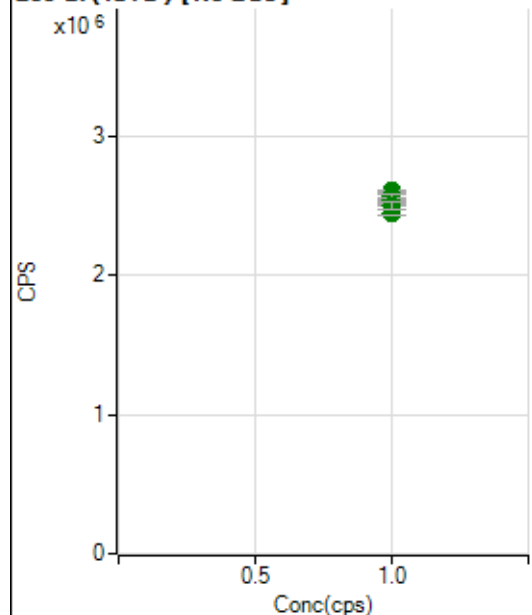
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1811903.46		A	1.5
2	☐	1.000		1820738.86		A	1.2
3	☐	1.000		1842992.04		A	1.2
4	☐	1.000		1861769.19		A	0.3
5	☐	1.000		1896680.74		A	0.8
6	☐	1.000		1862204.07		A	1.0
7	☐	1.000		1895755.16		A	0.9
8	☐	1.000		1926959.73		A	1.0

165 Ho (ISTD) [No Gas]

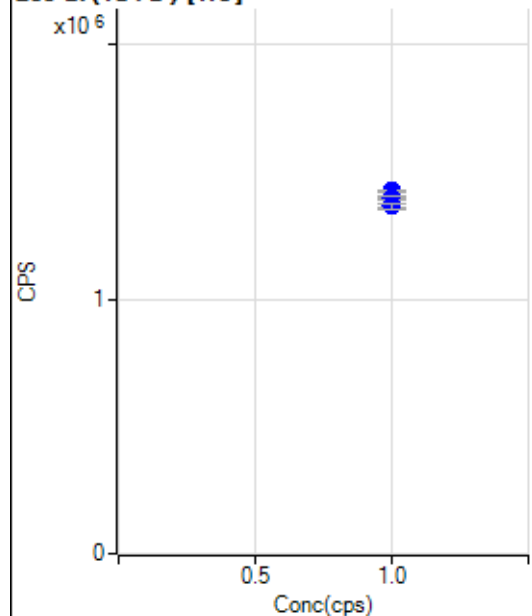
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		4160677.18		A	1.7
2	☐	1.000		4083291.97		A	0.3
3	☐	1.000		4195651.14		A	1.1
4	☐	1.000		4256426.22		A	1.4
5	☐	1.000		4371754.39		A	1.0
6	☐	1.000		4333231.00		A	0.8
7	☐	1.000		4408336.73		A	2.2
8	☐	1.000		4429070.72		A	3.3

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1881983.64		A	0.8
2	☐	1.000		1878952.59		A	1.8
3	☐	1.000		1892725.67		A	1.1
4	☐	1.000		1891422.98		A	0.4
5	☐	1.000		1940235.73		A	1.3
6	☐	1.000		1920564.59		A	0.8
7	☐	1.000		1957433.89		A	0.8
8	☐	1.000		1962666.83		A	1.2

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2506836.92		A	0.3
2	☐	1.000		2448040.14		A	1.6
3	☐	1.000		2523070.22		A	1.3
4	☐	1.000		2535463.94		A	3.3
5	☐	1.000		2606261.30		A	0.6
6	☐	1.000		2572105.99		A	1.8
7	☐	1.000		2569412.67		A	1.0
8	☐	1.000		2504172.98		A	2.0

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1374960.29		P	2.0
2	☐	1.000		1366096.93		P	0.9
3	☐	1.000		1392270.97		P	0.7
4	☐	1.000		1391053.47		P	0.5
5	☐	1.000		1424716.28		P	0.5
6	☐	1.000		1399283.12		P	0.5
7	☐	1.000		1397681.67		P	0.7
8	☐	1.000		1363078.68		P	1.9

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8111620MS.b
Acq. Date-Time 2020-11-16 12:56:47
Report Comment ---
Instrument Name G8403A SG19224459

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		1753	17532.62			0.749	5.000
24		24369	243685.62			4.819	5.000
25		3251	32509.04			4.880	5.000
26		3730	37296.61			4.505	5.000
59		14123	141227.53			0.870	5.000
113		2291	22910.67			0.548	5.000
115		7151	71509.72			1.677	5.000
206		2623	26228.05			1.278	5.000
207		2185	21849.14			0.603	5.000
208		5444	54439.24			0.847	5.000
220		1	6.90			38.821	

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

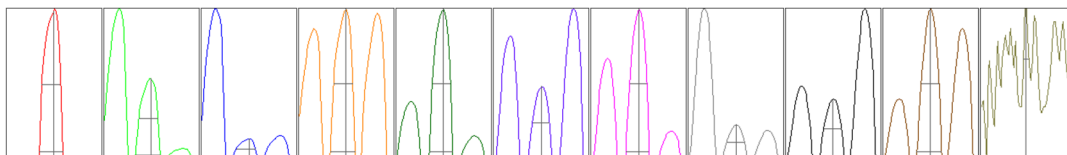
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	1763	1751	1733	1767	1752
24	23724	23553	23311	25899	25356
25	3160	3153	3096	3415	3430
26	3637	3615	3572	3907	3917
59	14080	14250	13934	14149	14200
113	2294	2300	2269	2298	2294
115	7119	7099	6998	7237	7302
206	2600	2676	2592	2611	2634
207	2171	2193	2170	2194	2196
208	5414	5486	5382	5449	5489

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	3106.99	9.00	8.90 - 9.10	
24	42547.47	24.00	23.90 - 24.10	
25	5634.70	25.05	24.90 - 25.10	
26	6581.90	26.00	25.90 - 26.10	
59	26039.15	59.00	58.90 - 59.10	
113	4492.07	113.05	112.90 - 113.10	
115	13934.92	115.05	114.90 - 115.10	
206	4953.03	206.05	205.90 - 206.10	
207	4094.75	207.00	206.90 - 207.10	
208	10236.99	208.00	207.90 - 208.10	
220	1.15	219.95	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.60	0.738	0.900	
24	0.61	0.785	0.900	
25	0.61	0.783	0.900	
26	0.61	0.784	0.900	
59	0.57	0.738	0.900	
113	0.53	0.725	0.900	
115	0.53	0.731	0.900	
206	0.55	0.768	0.900	
207	0.56	0.777	0.900	
208	0.56	0.780	0.900	
220	0.18			

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode HMI Nebulizer Gas 0.52 L/min Dilution Gas 0.46 L/min

US EPA Tune Check Report

RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	11.7 V	Deflect	14.6 V
Extract 2	-235.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-110 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	180 V		

QP Parameters

Mass Gain	122	Axis Gain	0.9994	QP Bias	-4.0 V
Mass Offset	124	Axis Offset	-0.03		

Hardware Settings

Torch

Torch H	0.6 mm	Torch V	-0.2 mm
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EM

Discriminator	3.8 mV	Analog HV	2180 V	Pulse HV	1331 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		3095	30949.75			3.309	
89		6729	67291.74			2.916	
205		6569	65686.86			4.638	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	2926	3072	3174	3144	3159
89	6404	6713	6912	6778	6839
205	6036	6648	6793	6638	6729

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	HMI	Nebulizer Gas	0.52 L/min	Dilution Gas	0.46 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	11.7 V	Deflect	5.4 V
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US EPA Tune Check Report

Extract 2	-235.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-110 V	Cell Exit	-70 V		
Cell Parameters					
Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	4.5 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		
QP Parameters					
Mass Gain	122	Axis Gain	0.9994	QP Bias	-13.0 V
Mass Offset	124	Axis Offset	-0.03		
Hardware Settings					
Torch					
Torch H	0.6 mm	Torch V	-0.2 mm		
EM					
Discriminator	3.8 mV	Analog HV	2180 V	Pulse HV	1331 V