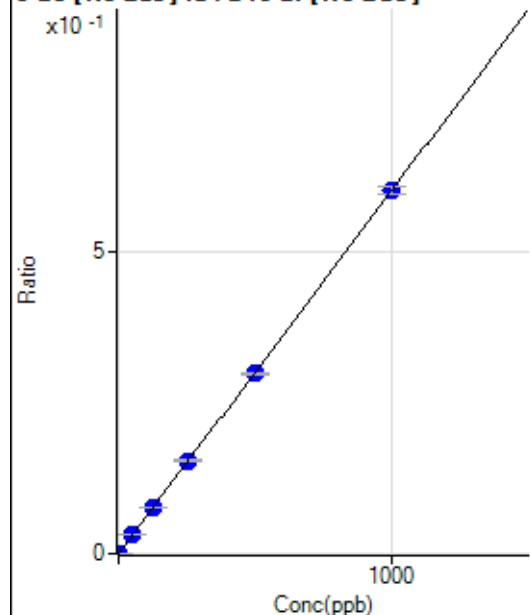


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8080620-MS.b\
Analysis File: P8080620-MS.batch.bin
DA Date-Time: 2020-08-07 01:59:02
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	005CALB.d	S00	2020-08-06 13:12:21
2	006CALS.d	S02	2020-08-06 13:15:28
3	007CALS.d	S03	2020-08-06 13:18:32
4	008CALS.d	S04	2020-08-06 13:21:38
5	009CALS.d	S05	2020-08-06 13:24:40
6	010CALS.d	S06	2020-08-06 13:27:40
7	011CALS.d	S07	2020-08-06 13:30:38
8	012CALS.d	S08	2020-08-06 13:33:39

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	58.66	0.0001	P	19.0
2	☐	1.000	0.938	563.90	0.0006	P	2.6
3	☐	50.000	51.287	27640.97	0.0310	P	2.1
4	☐	125.000	126.943	69810.42	0.0765	P	1.3
5	☐	250.000	256.156	137324.70	0.1544	P	2.5
6	☐	500.000	496.348	265065.50	0.2991	P	1.1
7	☐	1000.000	999.980	548306.46	0.6025	P	2.2
8	☐			10242.88	0.0117	P	0.3

$$y = 6.0244\text{E-}004 * x + 6.6720\text{E-}005$$

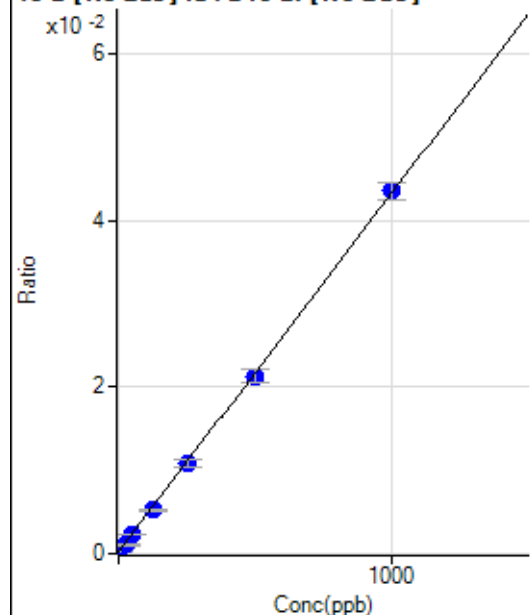
$$R = 1.0000$$

$$DL = 0.06316$$

$$BEC = 0.1107$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	207.96	0.0002	P	14.8
2	☐	25.000	18.726	931.18	0.0010	P	11.8
3	☐	50.000	46.872	2015.75	0.0023	P	4.6
4	☐	125.000	116.187	4779.85	0.0052	P	5.9
5	☐	250.000	246.863	9661.95	0.0109	P	9.5
6	☐	500.000	490.287	18919.09	0.0214	P	8.1
7	☐	1000.000	1007.056	39727.52	0.0436	P	4.9
8	☐			7404.42	0.0085	P	7.6

$$y = 4.3072\text{E-}005 * x + 2.3640\text{E-}004$$

$$R = 0.9999$$

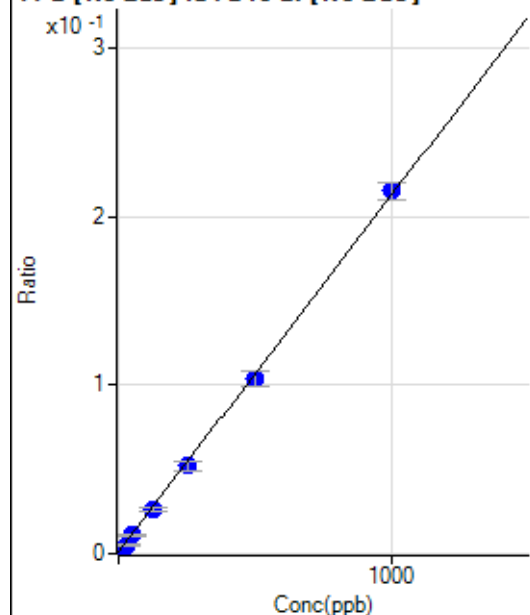
$$DL = 2.436$$

$$BEC = 5.488$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	976.51	0.0011	P	6.7
2	☐	25.000	18.531	4497.14	0.0050	P	8.8
3	☐	50.000	46.608	9821.36	0.0110	P	5.4
4	☐	125.000	118.439	23907.34	0.0262	P	7.6
5	☐	250.000	240.768	46332.87	0.0521	P	10.0
6	☐	500.000	483.494	91756.25	0.1036	P	8.8
7	☐	1000.000	1011.713	196299.84	0.2155	P	4.9
8	☐			36668.26	0.0420	P	8.4

$$y = 2.1191\text{E-}004 * x + 0.0011$$

$$R = 0.9998$$

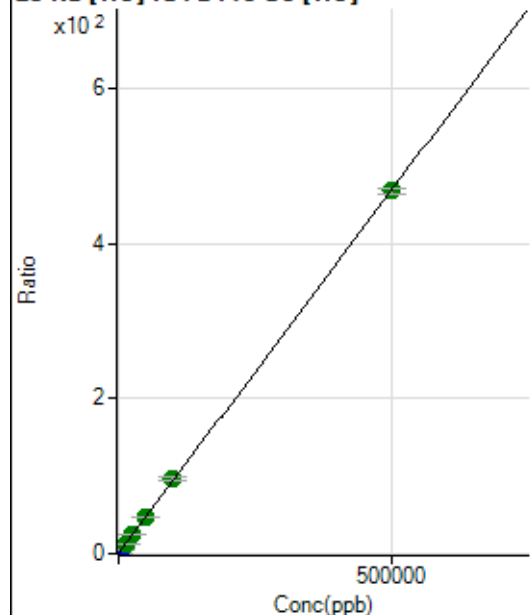
$$DL = 1.06$$

$$BEC = 5.239$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	34404.95	0.3671	P	0.5
2	☐	500.000	467.914	77044.98	0.8050	P	3.3
3	☐	5000.000	5446.641	529136.90	5.4649	P	1.2
4	☐	12500.000	13119.240	1229899.98	12.6461	A	0.4
5	☐	25000.000	26733.909	2411325.14	25.3889	A	0.8
6	☐	50000.000	50885.375	4583590.29	47.9936	A	0.8
7	☐	100000.00	103062.86	9086359.92	96.8294	A	4.1
8	☐	500000.00	499192.27	44108025.98	467.5892	A	1.5

$$y = 9.3596\text{E-}004 * x + 0.3671$$

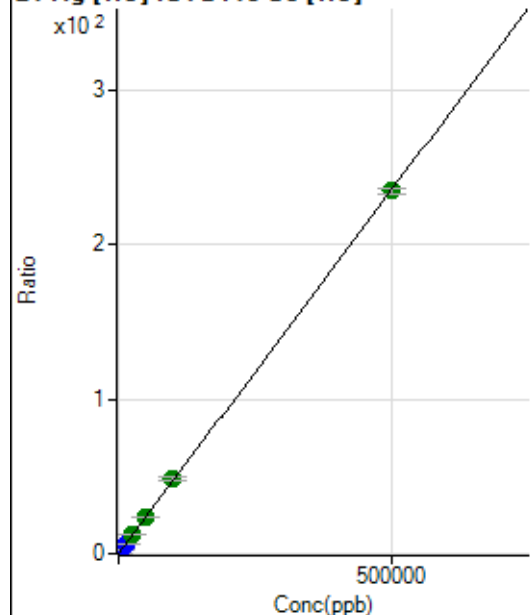
$$R = 1.0000$$

$$DL = 6.024$$

$$BEC = 392.2$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1286.20	0.0137	P	13.2
2	☐	500.000	488.964	23316.31	0.2436	P	2.5
3	☐	5000.000	5487.128	251093.23	2.5934	P	1.7
4	☐	12500.000	13421.435	614895.47	6.3236	P	1.4
5	☐	25000.000	26726.432	1194700.45	12.5787	A	0.4
6	☐	50000.000	51262.344	2302963.81	24.1139	A	0.9
7	☐	100000.00	104388.71	4605422.24	49.0905	A	5.0
8	☐	500000.00	498881.80	22126349.63	234.5554	A	1.4

$$y = 4.7013\text{E-}004 * x + 0.0137$$

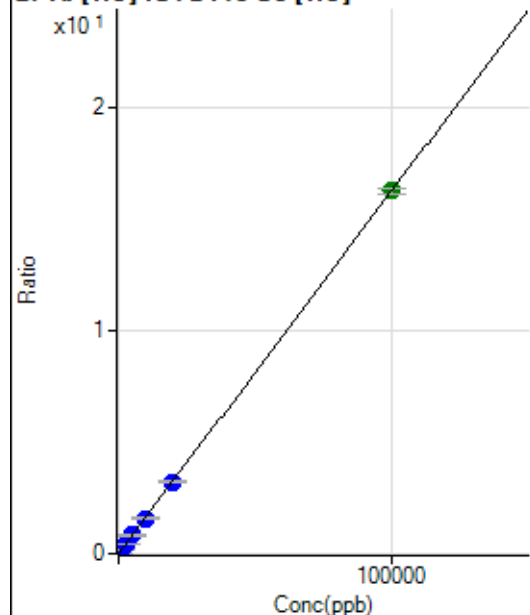
R = 1.0000

DL = 11.57

BEC = 29.18

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	405.26	0.0043	P	5.6
2	☐	20.000	19.779	721.21	0.0075	P	3.2
3	☐	1000.000	1014.087	16341.26	0.1688	P	1.3
4	☐	2500.000	2504.541	39914.42	0.4105	P	1.9
5	☐	5000.000	5033.712	77939.10	0.8206	P	1.1
6	☐	10000.000	9719.768	150938.61	1.5805	P	1.4
7	☐	20000.000	19830.828	302109.97	3.2202	P	4.9
8	☐	100000.00	100059.91	1531032.26	16.2305	A	1.5

$$y = 1.6216\text{E-}004 * x + 0.0043$$

R = 1.0000

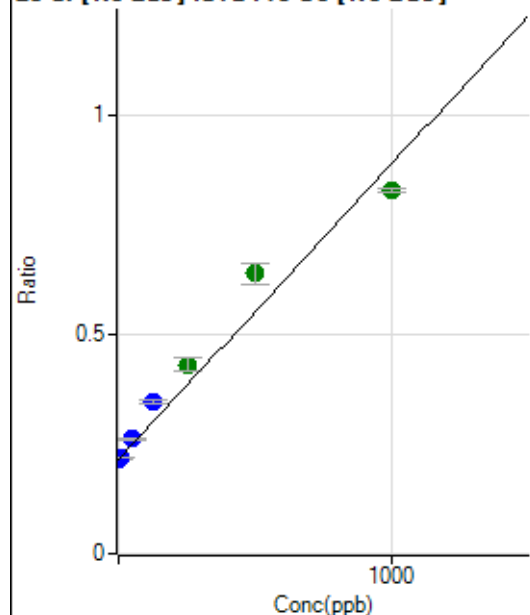
DL = 4.467

BEC = 26.68

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	511802.48	0.2155	P	1.1
2	☐	10.000	3.797	528126.74	0.2181	P	0.2
3	☐	50.000	68.267	648117.44	0.2616	P	1.2
4	☐	125.000	193.750	878185.37	0.3464	P	3.2
5	☐	250.000	321.071	1075756.83	0.4323	A	6.3
6	☐	500.000	629.158	1625010.73	0.6404	A	7.5
7	☐	1000.000	908.208	2073915.13	0.8288	A	1.2
8	☐			819552.12	0.3374	P	3.4

$$y = 6.7528\text{E-}004 * x + 0.2155$$

$$R = 0.9813$$

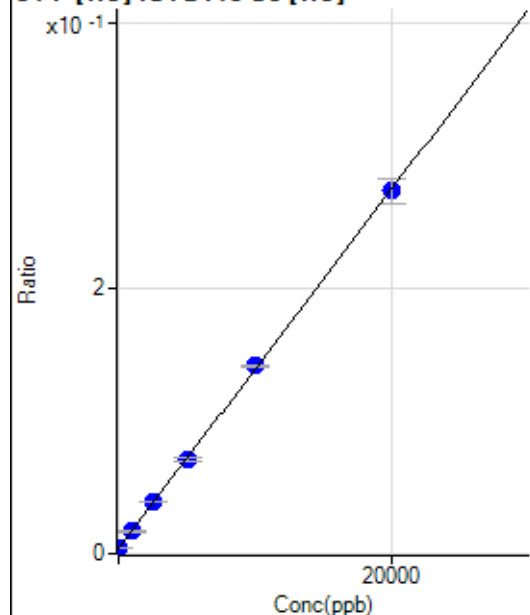
$$DL = 10.15$$

$$BEC = 319.2$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	-2.592	361.13	0.0039	P	9.5
2	☐	0.000	2.592	375.01	0.0039	P	8.2
3	☐	1000.000	957.808	1630.69	0.0169	P	8.0
4	☐	2500.000	2630.968	3842.29	0.0395	P	1.3
5	☐	5000.000	4962.927	6748.96	0.0711	P	3.1
6	☐	10000.000	10160.397	13506.69	0.1414	P	0.9
7	☐	20000.000	19914.808	25645.46	0.2735	P	6.6
8	☐			863.94	0.0092	P	3.1

$$y = 1.3536\text{E-}005 * x + 0.0039$$

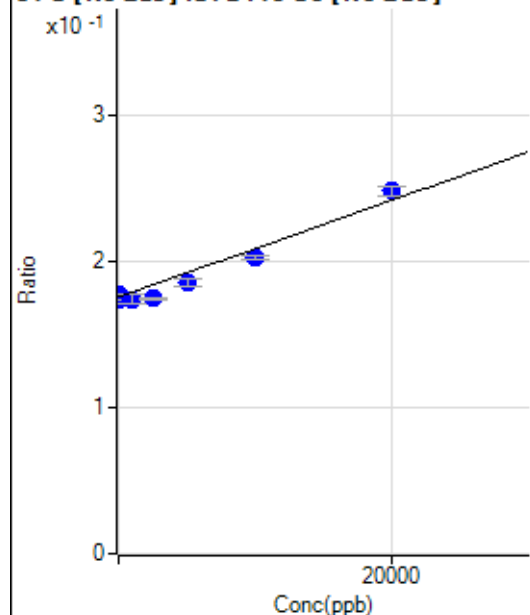
$$R = 0.9999$$

$$DL = 75.99$$

$$BEC = 287$$

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	649.365	421705.80	0.1776	P	0.2
2	☐	0.000	-649.365	419621.68	0.1733	P	0.4
3	☐	1000.000	-435.318	430816.06	0.1740	P	3.4
4	☐	2500.000	-387.819	441568.13	0.1741	P	0.6
5	☐	5000.000	2944.030	460913.78	0.1852	P	2.9
6	☐	10000.000	8057.167	512942.59	0.2021	P	1.3
7	☐	20000.000	21918.152	620129.50	0.2479	P	2.4
8	☐			402613.33	0.1658	P	1.4

$$y = 3.3071\text{E-}006 * x + 0.1754$$

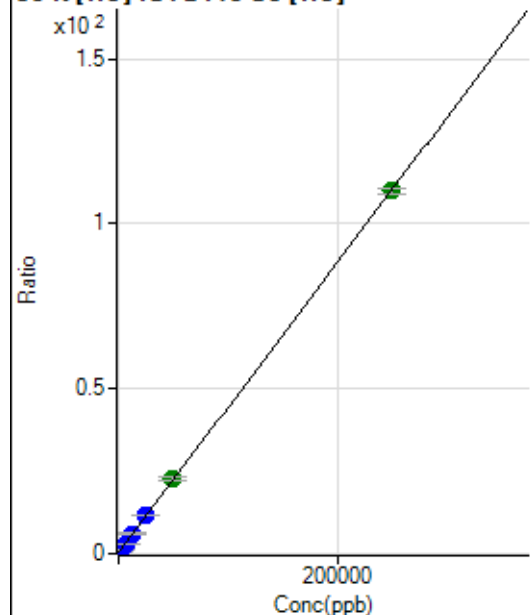
$$R = 0.9837$$

$$DL = 475.6$$

$$BEC = 5.305\text{E+}04$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	28787.71	0.3072	P	1.4
2	☐	500.000	437.069	47776.78	0.4992	P	2.7
3	☐	2500.000	2613.695	140911.99	1.4553	P	1.1
4	☐	6250.000	6498.924	307509.13	3.1621	P	0.6
5	☐	12500.000	13227.151	581030.27	6.1177	P	0.9
6	☐	25000.000	25373.651	1093828.46	11.4534	P	1.0
7	☐	50000.000	51197.900	2139243.63	22.7976	A	4.1
8	☐	250000.00	249679.46	10375057.26	109.9875	A	1.6

$$y = 4.3928\text{E-}004 * x + 0.3072$$

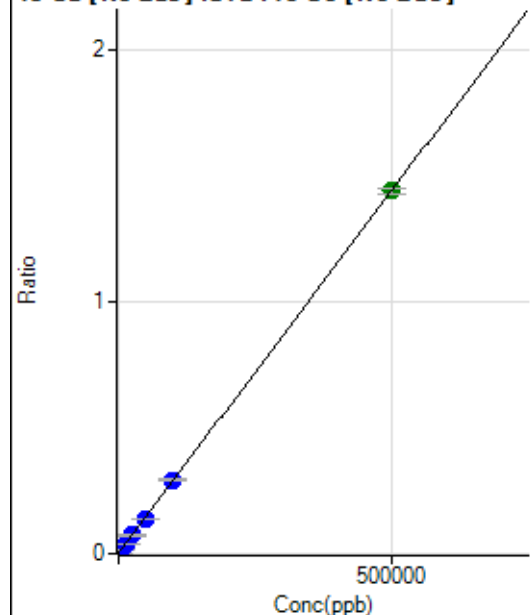
$$R = 1.0000$$

$$DL = 29.67$$

$$BEC = 699.3$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3697.80	0.0016	P	4.9
2	☐	500.000	417.038	6673.94	0.0028	P	2.1
3	☐	5000.000	4961.338	39201.22	0.0158	P	1.5
4	☐	12500.000	12220.567	93062.36	0.0367	P	1.4
5	☐	25000.000	25061.328	183212.20	0.0736	P	4.9
6	☐	50000.000	47811.384	352986.01	0.1391	P	1.5
7	☐	100000.00	101009.68	730609.00	0.2921	P	1.7
8	☐	500000.00	500021.31	3496938.40	1.4396	A	1.6

$$y = 2.8760E-006 * x + 0.0016$$

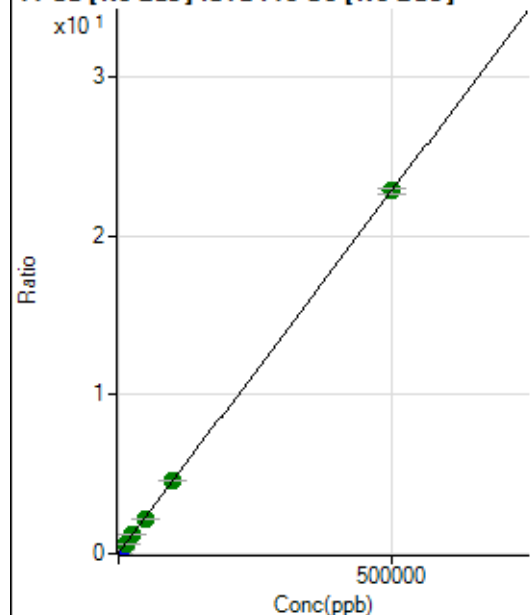
$$R = 1.0000$$

$$DL = 79.25$$

$$BEC = 541.3$$

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	82218.35	0.0346	P	2.1
2	☐	500.000	467.004	135461.97	0.0559	P	0.3
3	☐	5000.000	5259.882	680438.73	0.2747	P	1.4
4	☐	12500.000	12614.416	1547589.87	0.6103	A	0.7
5	☐	25000.000	25266.852	2955852.21	1.1878	A	4.2
6	☐	50000.000	47644.117	5607580.38	2.2091	A	0.9
7	☐	100000.00	100134.51	11518985.59	4.6047	A	1.7
8	☐	500000.00	500189.91	55536872.77	22.8632	A	1.3

$$y = 4.5640E-005 * x + 0.0346$$

$$R = 1.0000$$

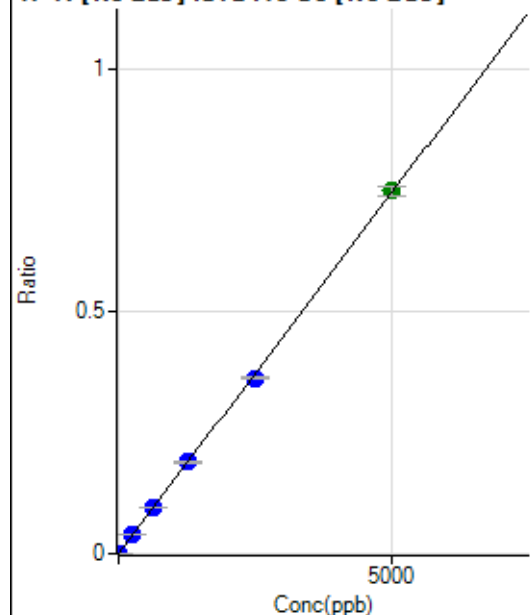
$$DL = 48.47$$

$$BEC = 758.7$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	808.38	0.0003	P	12.9
2	☐	5.000	4.691	2516.96	0.0010	P	7.0
3	☐	250.000	253.377	94407.38	0.0381	P	0.9
4	☐	625.000	633.768	240395.34	0.0948	P	0.4
5	☐	1250.000	1269.667	471968.00	0.1896	P	2.7
6	☐	2500.000	2430.211	920392.54	0.3626	P	0.8
7	☐	5000.000	5028.714	1875741.62	0.7499	A	3.0
8	☐			34887.49	0.0144	P	1.8

$$y = 1.4906\text{E-}004 * x + 3.4024\text{E-}004$$

$$R = 0.9998$$

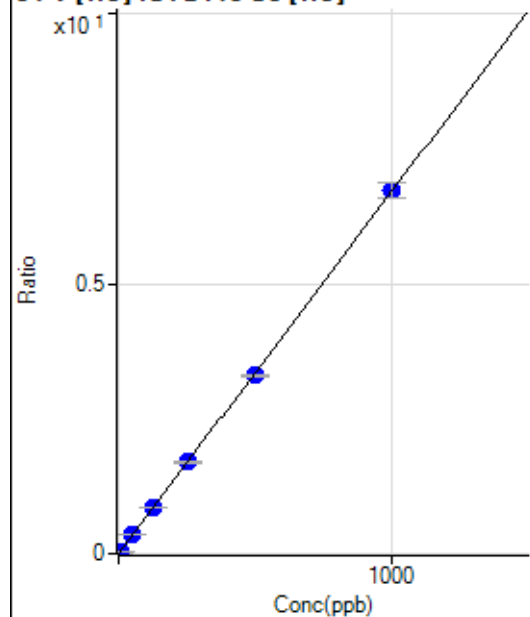
$$DL = 0.8832$$

$$BEC = 2.283$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	5.55	0.0001	P	124.1
2	☐	5.000	4.606	2957.00	0.0309	P	8.1
3	☐	50.000	51.184	33205.20	0.3430	P	2.3
4	☐	125.000	126.137	82195.40	0.8451	P	1.4
5	☐	250.000	252.911	160942.36	1.6945	P	0.7
6	☐	500.000	492.493	315125.31	3.2996	P	0.8
7	☐	1000.000	1002.826	630437.01	6.7187	P	4.3
8	☐			11637.02	0.1233	P	0.6

$$y = 0.0067 * x + 5.9065\text{E-}005$$

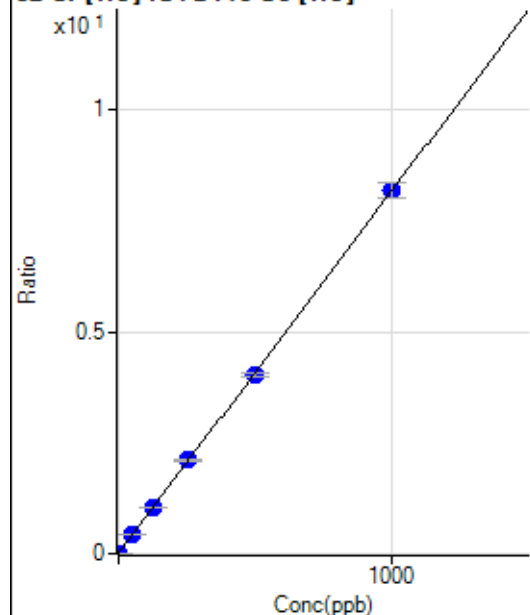
$$R = 1.0000$$

$$DL = 0.03283$$

$$BEC = 0.008816$$

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	665.58	0.0071	P	7.5
2	☐	2.000	1.723	2025.72	0.0212	P	1.3
3	☐	50.000	51.317	41182.48	0.4254	P	1.8
4	☐	125.000	127.197	101501.16	1.0438	P	1.3
5	☐	250.000	256.748	199425.63	2.0997	P	0.5
6	☐	500.000	493.476	384779.26	4.0291	P	1.3
7	☐	1000.000	1001.235	766367.75	8.1675	P	4.4
8	☐			17806.73	0.1887	P	0.7

$$y = 0.0082 * x + 0.0071$$

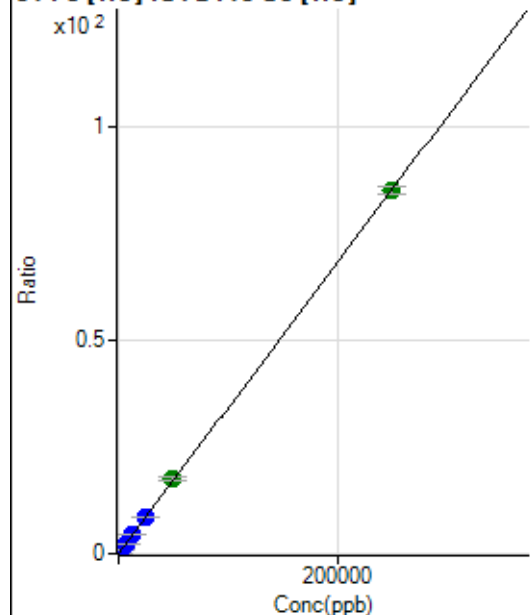
$$R = 0.9999$$

$$DL = 0.1962$$

$$BEC = 0.8718$$

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	470.38	0.0050	P	3.5
2	☐	50.000	47.940	2044.63	0.0213	P	2.0
3	☐	2500.000	2625.188	87054.32	0.8990	P	0.5
4	☐	6250.000	6566.392	217971.54	2.2413	P	1.7
5	☐	12500.000	13099.151	424164.63	4.4660	P	1.0
6	☐	25000.000	25360.258	825266.74	8.6416	P	1.4
7	☐	50000.000	51674.101	1651341.14	17.6030	A	5.4
8	☐	250000.00	249590.03	8018104.75	85.0047	A	2.0

$$y = 3.4056E-004 * x + 0.0050$$

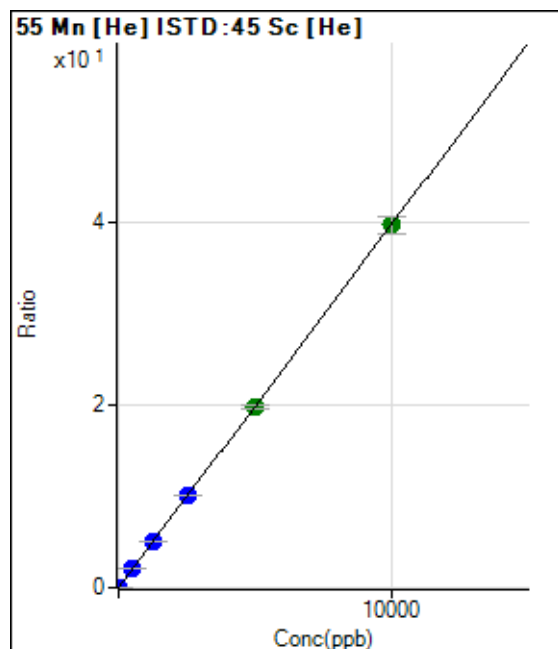
$$R = 1.0000$$

$$DL = 1.557$$

$$BEC = 14.74$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	140.00	0.0015	P	13.3
2	☐	1.000	0.839	462.24	0.0048	P	4.9
3	☐	500.000	511.099	197080.85	2.0354	P	0.7
4	☐	1250.000	1270.986	492022.28	5.0593	P	0.8
5	☐	2500.000	2534.861	958218.68	10.0889	P	0.6
6	☐	5000.000	4997.109	1899087.19	19.8873	A	2.2
7	☐	10000.000	9989.552	3729839.84	39.7546	A	4.8
8	☐			69275.89	0.7345	P	2.3

$$y = 0.0040 * x + 0.0015$$

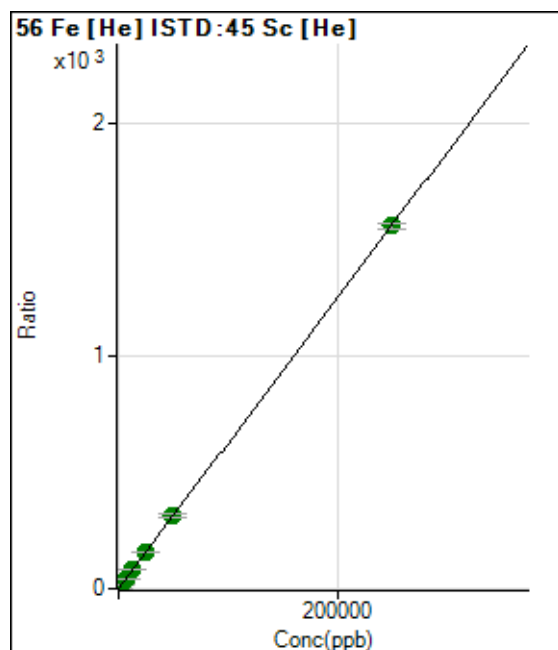
$$R = 1.0000$$

$$DL = 0.1498$$

$$BEC = 0.375$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	3835.79	0.0409	P	3.5
2	☐	50.000	46.576	31715.10	0.3313	P	0.9
3	☐	2500.000	2629.723	1591205.46	16.4330	A	0.6
4	☐	6250.000	6444.014	3910539.10	40.2089	A	0.2
5	☐	12500.000	12789.748	7576132.00	79.7643	A	0.7
6	☐	25000.000	25041.701	14911141.19	156.1354	A	1.3
7	☐	50000.000	50207.794	29373588.39	313.0051	A	3.9
8	☐	250000.00	249933.63	146957629.2	1,557.972	A	1.9

$$y = 0.0062 * x + 0.0409$$

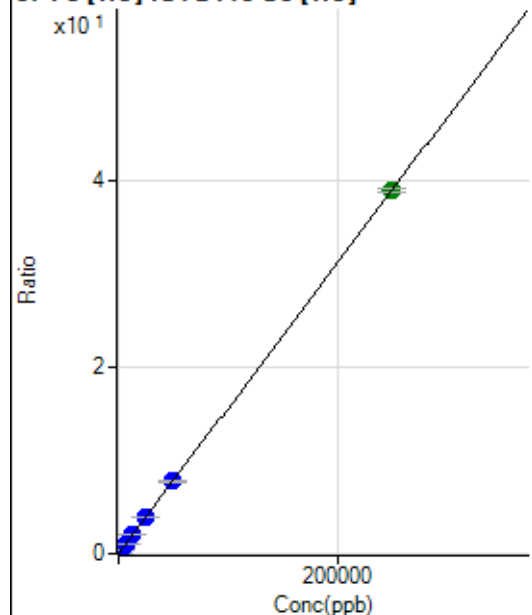
$$R = 1.0000$$

$$DL = 0.6912$$

$$BEC = 6.567$$

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	240.75	0.0026	P	23.3
2	☐	50.000	49.195	979.68	0.0102	P	11.7
3	☐	2500.000	2572.980	39072.29	0.4036	P	2.5
4	☐	6250.000	6361.069	96666.14	0.9939	P	0.5
5	☐	12500.000	12726.482	188618.69	1.9859	P	1.3
6	☐	25000.000	24771.739	368930.40	3.8631	P	1.2
7	☐	50000.000	49970.561	731055.41	7.7902	P	3.9
8	☐	250000.00	250013.88	3675954.97	38.9659	A	1.0

$$y = 1.5584\text{E-}004 * x + 0.0026$$

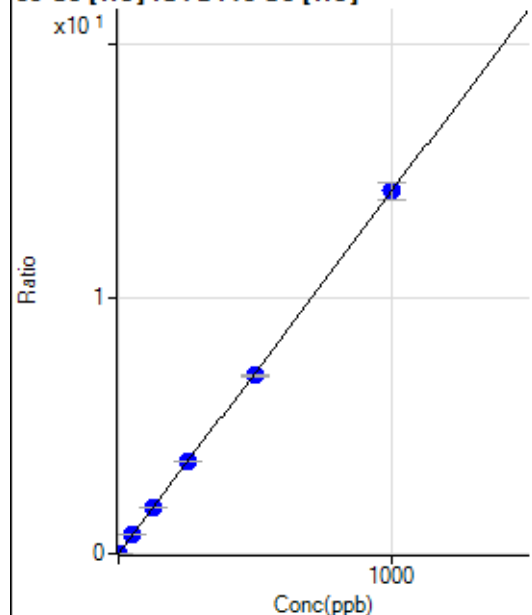
$$R = 1.0000$$

$$DL = 11.5$$

$$BEC = 16.46$$

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	43.33	0.0005	P	19.6
2	☐	1.000	0.935	1315.63	0.0137	P	1.6
3	☐	50.000	51.733	71190.01	0.7353	P	1.1
4	☐	125.000	127.199	175756.29	1.8071	P	0.6
5	☐	250.000	255.642	344901.24	3.6314	P	0.7
6	☐	500.000	493.431	669355.03	7.0088	P	1.1
7	☐	1000.000	1001.513	1334686.05	14.2253	P	4.7
8	☐			25993.78	0.2756	P	3.0

$$y = 0.0142 * x + 4.6193\text{E-}004$$

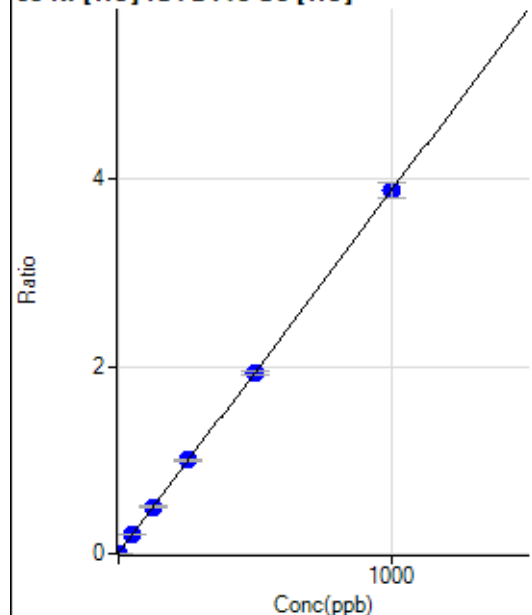
$$R = 0.9999$$

$$DL = 0.01909$$

$$BEC = 0.03252$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	355.56	0.0038	P	6.9
2	☐	1.000	0.909	700.02	0.0073	P	9.2
3	☐	50.000	52.193	19929.58	0.2058	P	1.0
4	☐	125.000	128.901	48897.11	0.5027	P	1.1
5	☐	250.000	256.621	94702.59	0.9971	P	0.5
6	☐	500.000	496.958	184064.31	1.9274	P	1.4
7	☐	1000.000	999.268	363308.05	3.8717	P	4.2
8	☐			8095.71	0.0859	P	3.9

$$y = 0.0039 * x + 0.0038$$

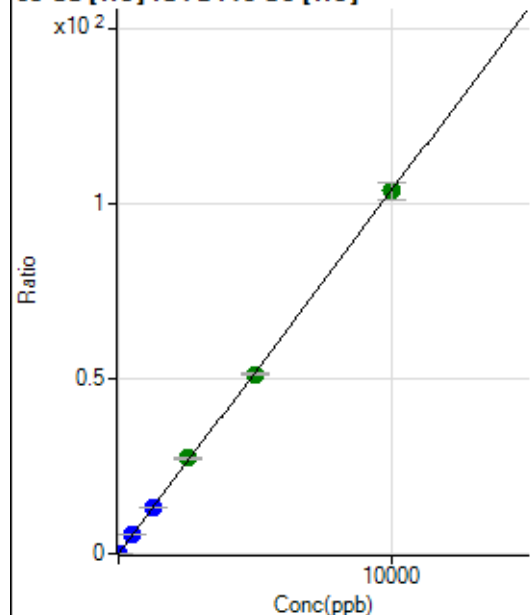
$$R = 1.0000$$

$$DL = 0.202$$

$$BEC = 0.9797$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	276.67	0.0030	P	2.4
2	☐	2.000	1.983	2252.43	0.0236	P	7.1
3	☐	500.000	520.114	523311.28	5.4050	P	1.6
4	☐	1250.000	1276.160	1289147.60	13.2574	P	1.6
5	☐	2500.000	2625.728	2590422.82	27.2743	A	0.6
6	☐	5000.000	4948.153	4908271.21	51.3955	A	1.3
7	☐	10000.000	9990.216	9735999.72	103.7634	A	4.5
8	☐			178231.06	1.8893	P	1.7

$$y = 0.0104 * x + 0.0030$$

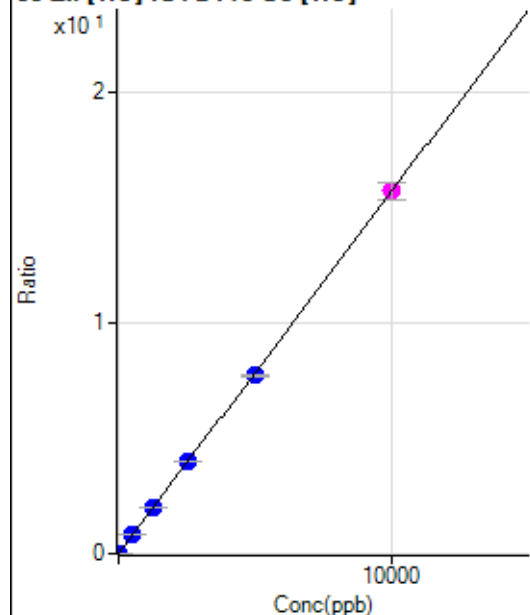
$$R = 0.9999$$

$$DL = 0.02048$$

$$BEC = 0.2843$$

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	100.68	0.0011	P	15.8
2	☐	2.000	2.395	463.53	0.0048	P	7.8
3	☐	500.000	521.850	79449.63	0.8206	P	2.0
4	☐	1250.000	1274.512	194728.07	2.0026	P	1.7
5	☐	2500.000	2564.649	382641.94	4.0287	P	0.4
6	☐	5000.000	4925.854	738889.61	7.7368	P	1.4
7	☐	10000.000	10016.754	1475955.24	15.7318	M	4.9
8	☐			28101.77	0.2979	P	0.7

$$y = 0.0016 * x + 0.0011$$

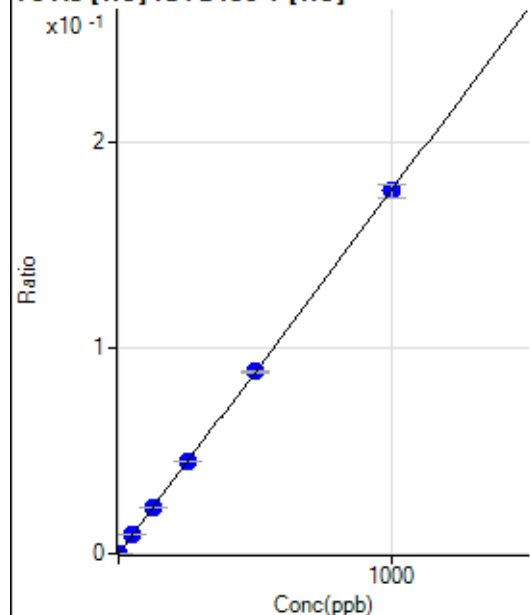
$$R = 0.9999$$

$$DL = 0.3234$$

$$BEC = 0.6837$$

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	7.67	0.0000	P	34.0
2	☐	1.000	0.907	121.34	0.0002	P	11.0
3	☐	50.000	51.730	6530.50	0.0091	P	1.5
4	☐	125.000	127.329	16117.13	0.0224	P	1.5
5	☐	250.000	253.358	31913.70	0.0447	P	0.6
6	☐	500.000	501.120	62017.49	0.0883	P	0.9
7	☐	1000.000	998.223	123525.61	0.1759	P	3.4
8	☐			2281.75	0.0032	P	4.2

$$y = 1.7622E-004 * x + 1.1121E-005$$

$$R = 1.0000$$

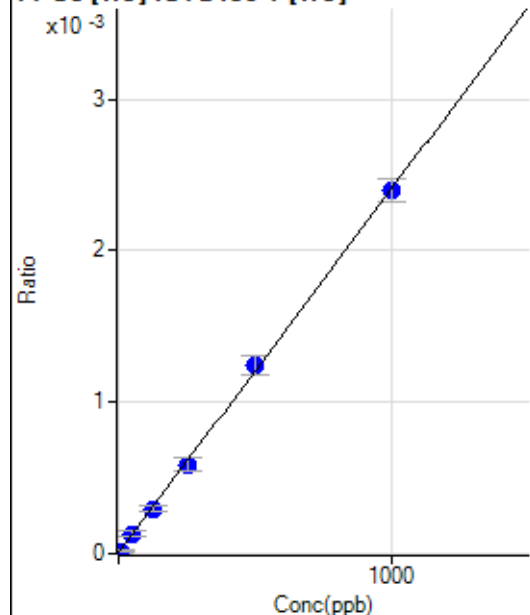
$$DL = 0.06431$$

$$BEC = 0.06311$$

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	4.44	0.0000	P	173.2
2	☐	5.000	3.860	11.11	0.0000	P	63.6
3	☐	50.000	52.327	94.45	0.0001	P	36.7
4	☐	125.000	120.472	212.23	0.0003	P	10.6
5	☐	250.000	242.599	421.12	0.0006	P	15.0
6	☐	500.000	515.693	873.37	0.0012	P	10.1
7	☐	1000.000	994.459	1681.23	0.0024	P	6.2
8	☐			34.44	0.0000	P	32.2

$$y = 2.4012\text{E-}006 * x + 6.5407\text{E-}006$$

$$R = 0.9998$$

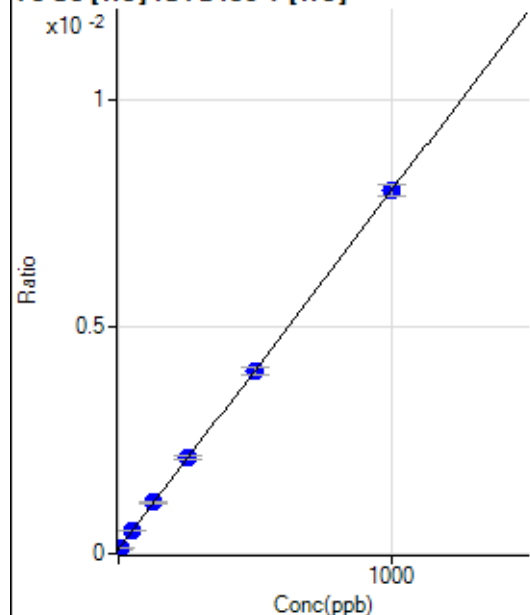
$$DL = 14.15$$

$$BEC = 2.724$$

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	69.01	0.0001	P	5.8
2	☐	5.000	4.005	93.34	0.0001	P	13.9
3	☐	50.000	51.390	362.37	0.0005	P	2.4
4	☐	125.000	130.423	812.44	0.0011	P	3.6
5	☐	250.000	253.626	1505.24	0.0021	P	4.3
6	☐	500.000	497.928	2835.91	0.0040	P	3.7
7	☐	1000.000	999.387	5622.36	0.0080	P	3.3
8	☐			158.35	0.0002	P	11.0

$$y = 7.9117\text{E-}006 * x + 9.9822\text{E-}005$$

$$R = 1.0000$$

$$DL = 2.179$$

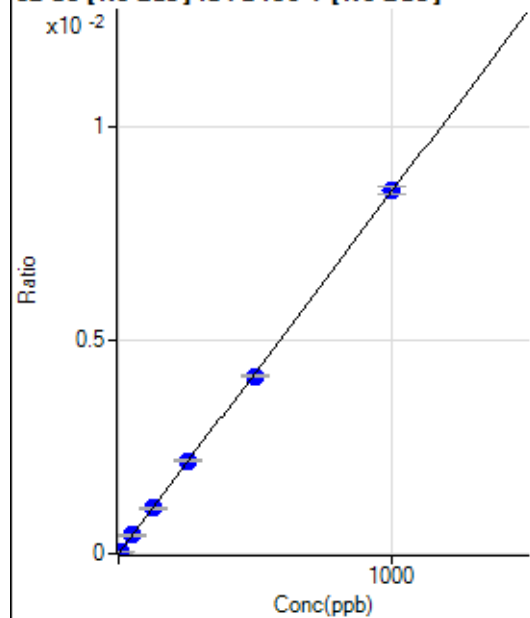
$$BEC = 12.62$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3076.85		P	4.9
2	☐			3030.13		P	2.7
3	☐			3110.25		P	9.7
4	☐			3140.28		P	6.0
5	☐			3123.60		P	2.6
6	☐			3173.64		P	0.6
7	☐			3123.58		P	6.1
8	☐			3347.17		P	6.3

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	-11.77	0.0000	P	-153.
2	☐	5.000	6.006	251.65	0.0000	P	7.7
3	☐	50.000	50.867	2254.65	0.0004	P	2.7
4	☐	125.000	125.187	5728.83	0.0011	P	1.4
5	☐	250.000	256.261	11587.09	0.0022	P	1.7
6	☐	500.000	491.096	22379.03	0.0042	P	0.8
7	☐	1000.000	1002.815	45941.21	0.0085	P	2.1
8	☐			815.35	0.0002	P	5.6

$$y = 8.4852E-006 * x - 2.3123E-006$$

$$R = 0.9999$$

$$DL = 1.251$$

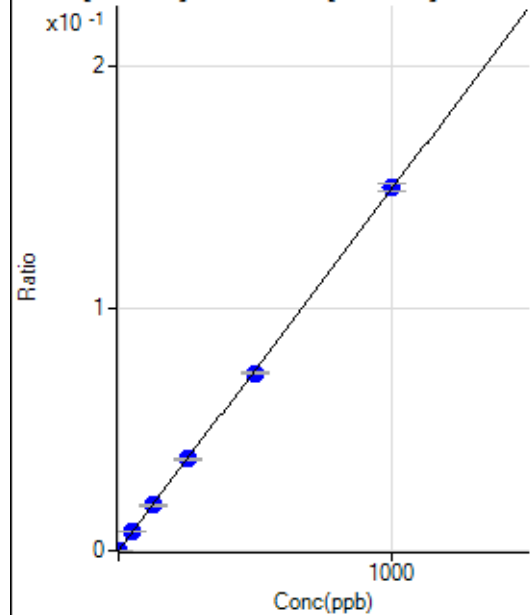
$$BEC = -0.2725$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			386.67		P	6.7
2	☐			361.12		P	6.9
3	☐			404.46		P	7.0
4	☐			384.45		P	3.9
5	☐			356.67		P	4.3
6	☐			372.23		P	9.5
7	☐			363.34		P	21.5
8	☐			382.23		P	11.0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	555.58	0.0001	P	5.5
2	☐	1.000	0.976	1311.21	0.0003	P	10.5
3	☐	50.000	50.658	40152.76	0.0076	P	1.1
4	☐	125.000	125.060	101164.89	0.0187	P	1.9
5	☐	250.000	252.915	201361.77	0.0377	P	0.6
6	☐	500.000	491.329	393489.49	0.0732	P	0.6
7	☐	1000.000	1003.566	807167.75	0.1495	P	2.0
8	☐			19527.95	0.0038	P	1.1

$$y = 1.4881\text{E-}004 * x + 1.0848\text{E-}004$$

$$R = 0.9999$$

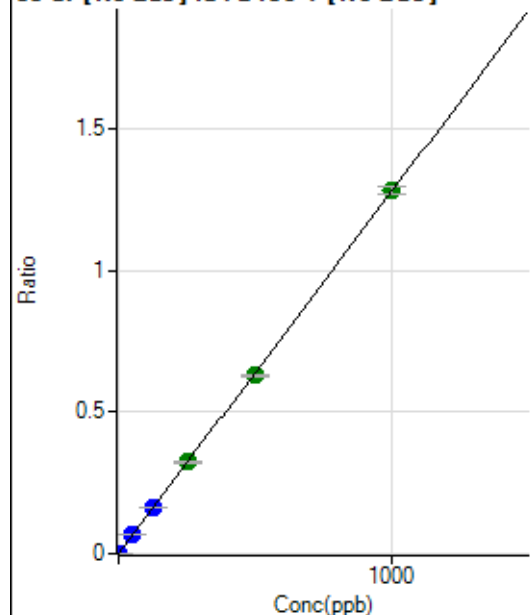
$$DL = 0.1201$$

$$BEC = 0.729$$

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	41.67	0.0000	P	20.2
2	☐	1.000	0.947	6290.50	0.0012	P	6.6
3	☐	50.000	51.472	345209.10	0.0657	P	0.7
4	☐	125.000	127.069	877159.05	0.1623	P	0.8
5	☐	250.000	254.059	1730922.43	0.3245	A	1.8
6	☐	500.000	492.181	3377857.58	0.6286	A	0.7
7	☐	1000.000	1002.563	6915311.70	1.2804	A	2.0
8	☐			161358.20	0.0312	P	1.7

$$y = 0.0013 * x + 8.1351E-006$$

$$R = 0.9999$$

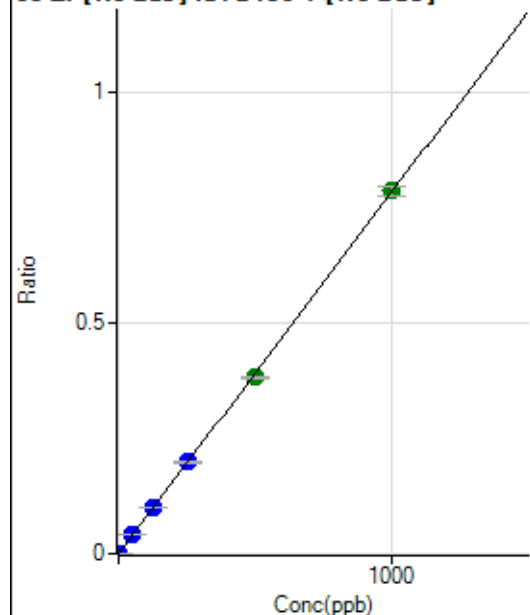
$$DL = 0.003858$$

$$BEC = 0.00637$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	211.12	0.0000	P	13.2
2	☐	1.000	0.875	3756.16	0.0007	P	1.6
3	☐	50.000	50.876	209419.46	0.0399	P	1.2
4	☐	125.000	126.579	535941.93	0.0992	P	1.1
5	☐	250.000	254.349	1062723.75	0.1992	P	1.5
6	☐	500.000	489.130	2058424.59	0.3831	A	1.0
7	☐	1000.000	1004.107	4246568.06	0.7864	A	2.4
8	☐			77060.50	0.0149	P	1.6

$$y = 7.8309E-004 * x + 4.1192E-005$$

$$R = 0.9999$$

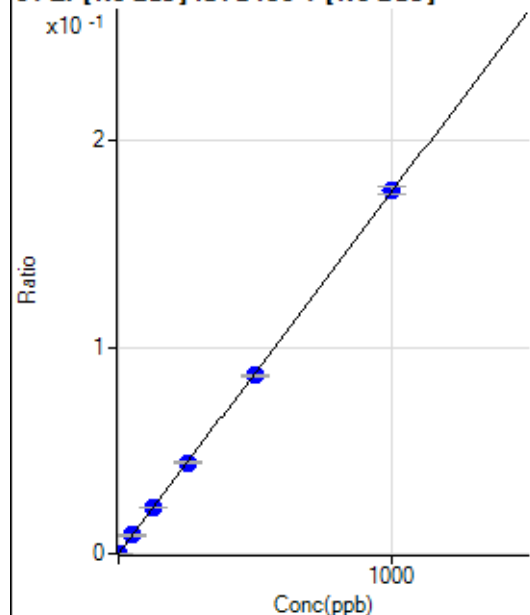
$$DL = 0.02089$$

$$BEC = 0.0526$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	63.89	0.0000	P	15.5
2	☐	1.000	0.996	966.73	0.0002	P	3.0
3	☐	50.000	50.747	46742.75	0.0089	P	1.7
4	☐	125.000	126.377	119734.38	0.0222	P	1.1
5	☐	250.000	251.732	235326.76	0.0441	P	2.2
6	☐	500.000	492.003	463279.01	0.0862	P	1.1
7	☐	1000.000	1003.356	949423.87	0.1758	P	2.1
8	☐			17428.09	0.0034	P	2.6

$$y = 1.7520\text{E-}004 * x + 1.2477\text{E-}005$$

$$R = 0.9999$$

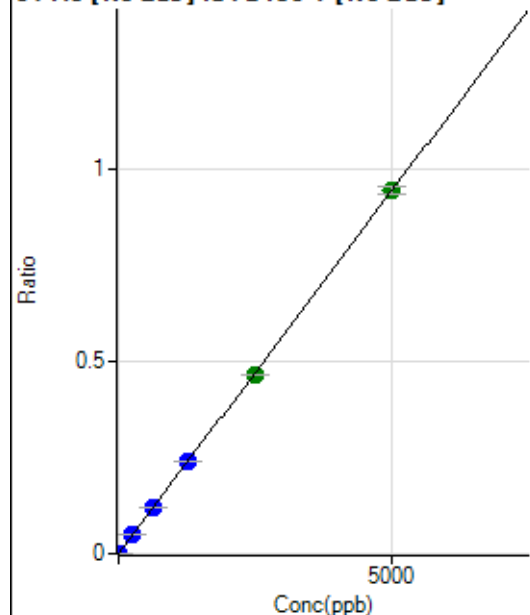
$$DL = 0.0332$$

$$BEC = 0.07122$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	94.45	0.0000	P	30.3
2	☐	5.000	4.876	4842.63	0.0009	P	3.4
3	☐	250.000	258.194	255360.06	0.0486	P	1.4
4	☐	625.000	640.412	651859.93	0.1206	P	1.6
5	☐	1250.000	1270.080	1275975.12	0.2392	P	1.0
6	☐	2500.000	2474.900	2504560.28	0.4661	A	0.1
7	☐	5000.000	5005.194	5090373.11	0.9426	A	2.0
8	☐			94456.26	0.0182	P	1.0

$$y = 1.8831\text{E-}004 * x + 1.8415\text{E-}005$$

$$R = 1.0000$$

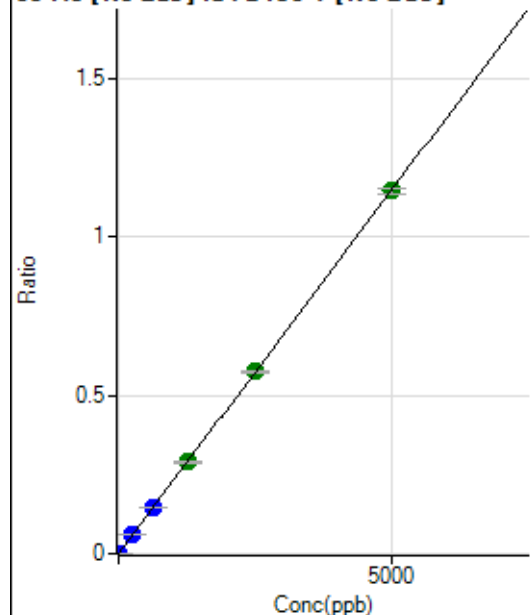
$$DL = 0.08898$$

$$BEC = 0.09779$$

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	41.67	0.0000	P	40.1
2	☐	5.000	4.570	5462.34	0.0011	P	8.0
3	☐	250.000	257.894	310818.81	0.0592	P	1.7
4	☐	625.000	640.244	794216.11	0.1470	P	1.2
5	☐	1250.000	1262.276	1545523.47	0.2897	A	1.7
6	☐	2500.000	2505.299	3089737.89	0.5750	A	1.4
7	☐	5000.000	4991.981	6187808.91	1.1457	A	1.9
8	☐			114354.51	0.0221	P	2.3

$$y = 2.2951\text{E-}004 * x + 8.1327\text{E-}006$$

$$R = 1.0000$$

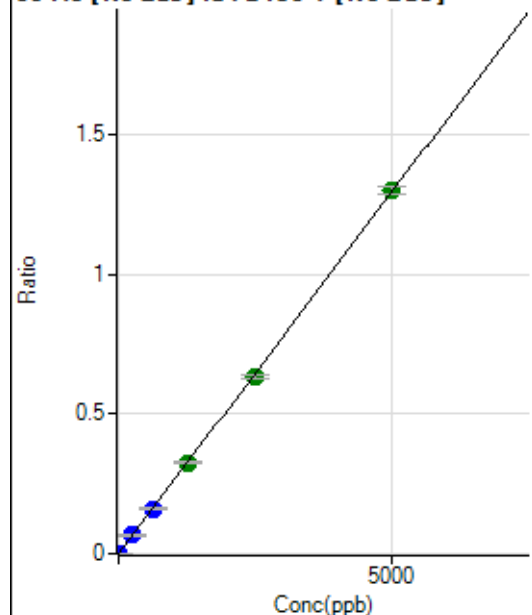
$$DL = 0.04262$$

$$BEC = 0.03543$$

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	47.22	0.0000	P	10.8
2	☐	5.000	4.520	6101.48	0.0012	P	1.3
3	☐	250.000	252.991	344086.16	0.0655	P	1.4
4	☐	625.000	624.423	874139.82	0.1617	P	0.8
5	☐	1250.000	1259.365	1739958.92	0.3262	A	2.6
6	☐	2500.000	2450.375	3410115.09	0.6347	A	1.9
7	☐	5000.000	5022.394	7025278.98	1.3008	A	2.0
8	☐			127112.40	0.0246	P	2.7

$$y = 2.5900\text{E-}004 * x + 9.2233\text{E-}006$$

$$R = 0.9999$$

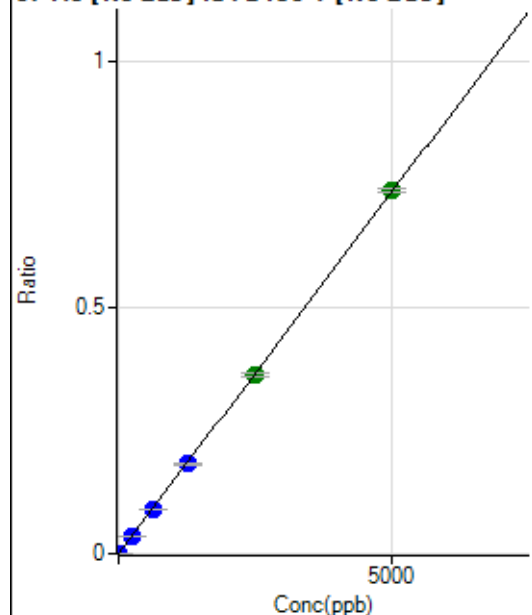
$$DL = 0.01159$$

$$BEC = 0.03561$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	8.33	0.0000	P	0.7
2	☐	5.000	4.401	3342.15	0.0006	P	5.3
3	☐	250.000	249.929	192292.34	0.0366	P	0.2
4	☐	625.000	616.406	488166.82	0.0903	P	0.5
5	☐	1250.000	1237.888	967499.22	0.1814	P	2.2
6	☐	2500.000	2464.521	1940249.09	0.3611	A	2.0
7	☐	5000.000	5021.846	3974211.81	0.7358	A	1.2
8	☐			71813.49	0.0139	P	1.7

$$y = 1.4652\text{E-}004 * x + 1.6262\text{E-}006$$

$$R = 1.0000$$

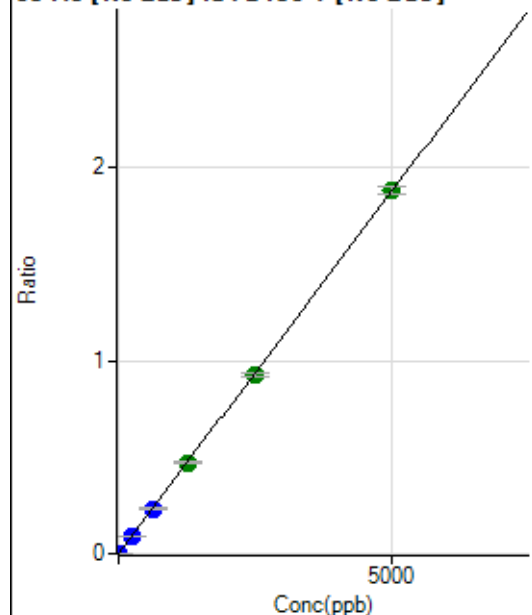
$$DL = 0.000238$$

$$BEC = 0.0111$$

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	16.67	0.0000	P	49.4
2	☐	5.000	4.591	8916.96	0.0017	P	2.9
3	☐	250.000	248.733	489649.39	0.0933	P	1.5
4	☐	625.000	621.940	1260331.87	0.2332	P	0.8
5	☐	1250.000	1261.377	2522743.79	0.4729	A	2.3
6	☐	2500.000	2474.512	4985367.78	0.9278	A	1.5
7	☐	5000.000	5010.346	10145142.85	1.8786	A	2.2
8	☐			180435.85	0.0349	P	2.3

$$y = 3.7494\text{E-}004 * x + 3.2475\text{E-}006$$

$$R = 1.0000$$

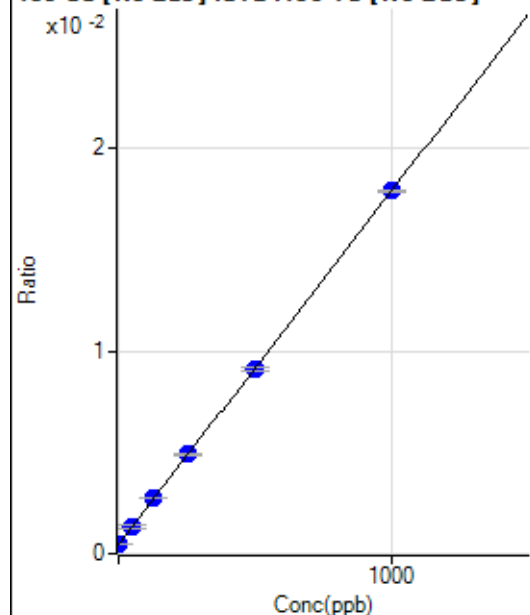
$$DL = 0.01284$$

$$BEC = 0.008661$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1533.46	0.0005	P	4.0
2	☐	1.000	1.275	1622.37	0.0005	P	6.4
3	☐	50.000	51.083	4628.67	0.0013	P	11.1
4	☐	125.000	129.873	9670.28	0.0027	P	0.9
5	☐	250.000	256.302	17358.45	0.0049	P	1.7
6	☐	500.000	495.111	32402.57	0.0091	P	1.7
7	☐	1000.000	1000.205	64975.47	0.0179	P	0.6
8	☐			2469.74	0.0007	P	8.6

$$y = 1.7460\text{E-}005 * x + 4.5198\text{E-}004$$

$$R = 1.0000$$

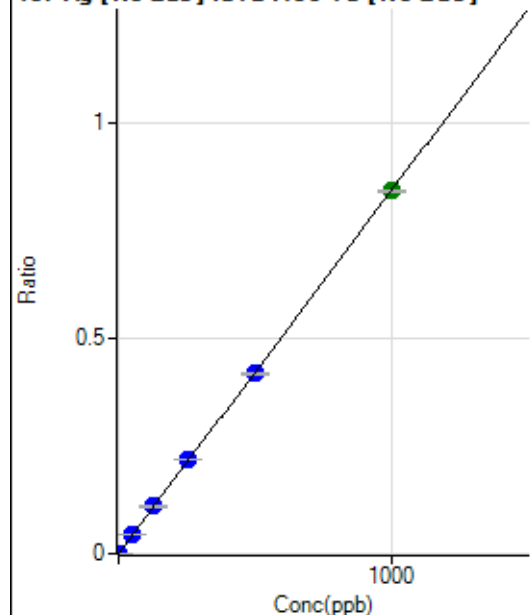
$$DL = 3.128$$

$$BEC = 25.89$$

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	38.89	0.0000	P	12.2
2	☐	1.000	0.942	2755.91	0.0008	P	6.0
3	☐	50.000	52.139	151666.30	0.0440	P	1.1
4	☐	125.000	130.111	390028.82	0.1097	P	1.0
5	☐	250.000	257.234	764056.20	0.2168	P	0.3
6	☐	500.000	497.035	1492360.96	0.4190	P	1.0
7	☐	1000.000	998.928	3053845.51	0.8421	A	0.8
8	☐			54237.50	0.0153	P	0.5

$$y = 8.4296\text{E-}004 * x + 1.1460\text{E-}005$$

$$R = 1.0000$$

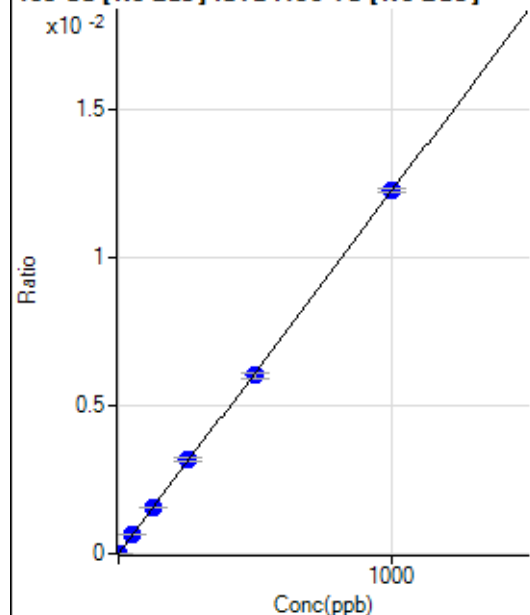
$$DL = 0.004959$$

$$BEC = 0.0136$$

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	6.94	0.0000	P	34.6
2	☐	1.000	1.294	61.11	0.0000	P	45.5
3	☐	50.000	52.850	2237.71	0.0006	P	2.5
4	☐	125.000	128.371	5592.89	0.0016	P	1.8
5	☐	250.000	260.550	11238.05	0.0032	P	3.9
6	☐	500.000	491.472	21432.04	0.0060	P	3.0
7	☐	1000.000	1001.062	44433.95	0.0123	P	1.2
8	☐			881.99	0.0002	P	3.9

$$y = 1.2237E-005 * x + 2.0468E-006$$

$$R = 0.9999$$

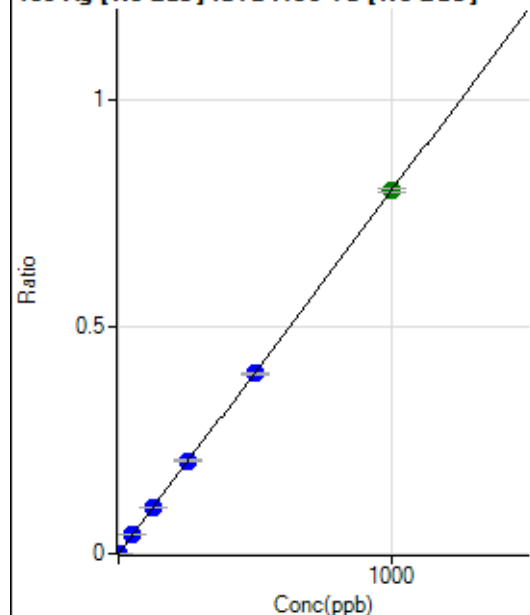
$$DL = 0.1739$$

$$BEC = 0.1673$$

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	11.11	0.0000	P	114.8
2	☐	1.000	0.932	2566.98	0.0008	P	8.7
3	☐	50.000	52.457	145028.77	0.0420	P	0.6
4	☐	125.000	128.089	364944.99	0.1026	P	0.8
5	☐	250.000	256.534	724185.25	0.2055	P	1.4
6	☐	500.000	496.195	1416122.81	0.3976	P	1.7
7	☐	1000.000	999.760	2905048.96	0.8010	A	1.0
8	☐			51622.53	0.0146	P	2.2

$$y = 8.0124E-004 * x + 3.2798E-006$$

$$R = 1.0000$$

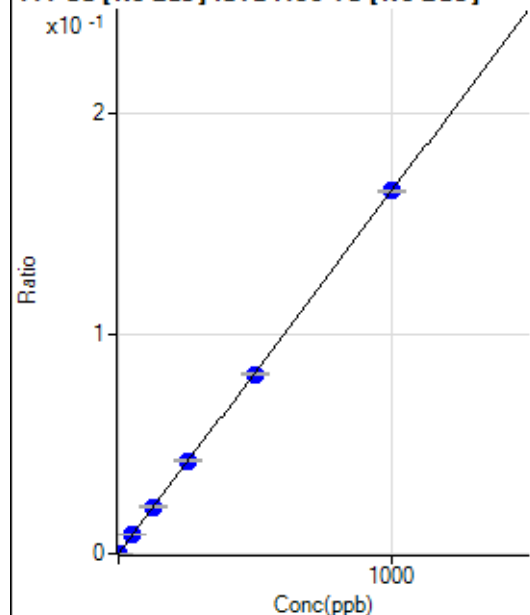
$$DL = 0.01409$$

$$BEC = 0.004093$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	310.17	0.0001	P	2.3
2	☐	1.000	1.131	949.78	0.0003	P	5.5
3	☐	50.000	51.422	29515.96	0.0086	P	1.7
4	☐	125.000	129.002	75839.95	0.0213	P	0.9
5	☐	250.000	256.262	148961.81	0.0423	P	0.8
6	☐	500.000	494.536	290315.85	0.0815	P	0.6
7	☐	1000.000	1000.595	597728.09	0.1648	P	0.3
8	☐			10621.15	0.0030	P	2.8

$$y = 1.6462\text{E-}004 * x + 9.1418\text{E-}005$$

$$R = 1.0000$$

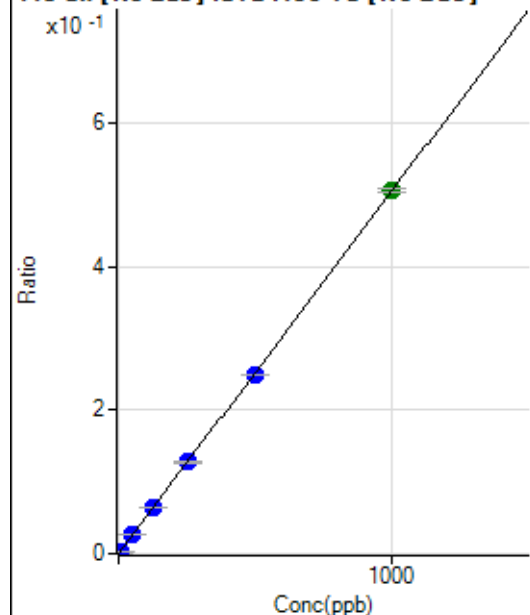
$$DL = 0.03797$$

$$BEC = 0.5553$$

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	197.23	0.0001	P	28.2
2	☐	5.000	4.671	8258.30	0.0024	P	2.5
3	☐	50.000	50.568	88205.73	0.0256	P	0.9
4	☐	125.000	127.440	228781.84	0.0643	P	1.1
5	☐	250.000	252.457	448847.88	0.1274	P	1.6
6	☐	500.000	494.912	889454.68	0.2497	P	0.5
7	☐	1000.000	1001.598	1832534.91	0.5053	A	1.0
8	☐			32700.75	0.0092	P	2.3

$$y = 5.0442\text{E-}004 * x + 5.8148\text{E-}005$$

$$R = 1.0000$$

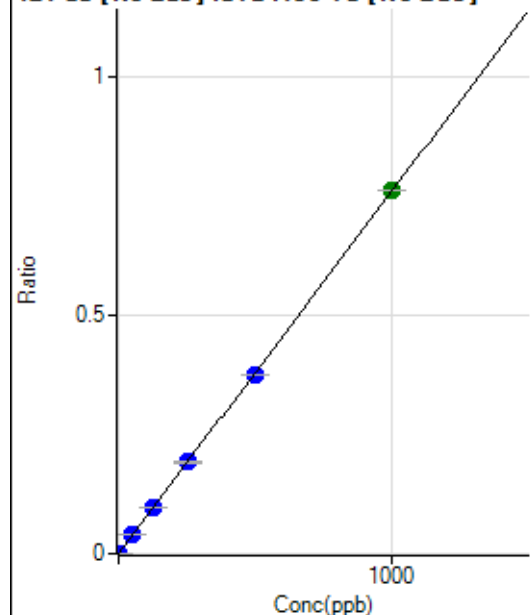
$$DL = 0.09768$$

$$BEC = 0.1153$$

Weight: <None>

Min Conc: 0

121 Sb [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	99.9
2	☐	2.000	1.838	4798.18	0.0014	P	3.8
3	☐	50.000	51.263	134471.63	0.0390	P	1.5
4	☐	125.000	126.283	341427.89	0.0960	P	0.6
5	☐	250.000	252.738	677058.61	0.1922	P	1.5
6	☐	500.000	494.108	1338159.21	0.3757	P	0.5
7	☐	1000.000	1002.038	2763056.03	0.7619	A	0.1
8	☐			49855.53	0.0141	P	4.2

$$y = 7.6031\text{E-}004 * x + 4.9140\text{E-}006$$

$$R = 1.0000$$

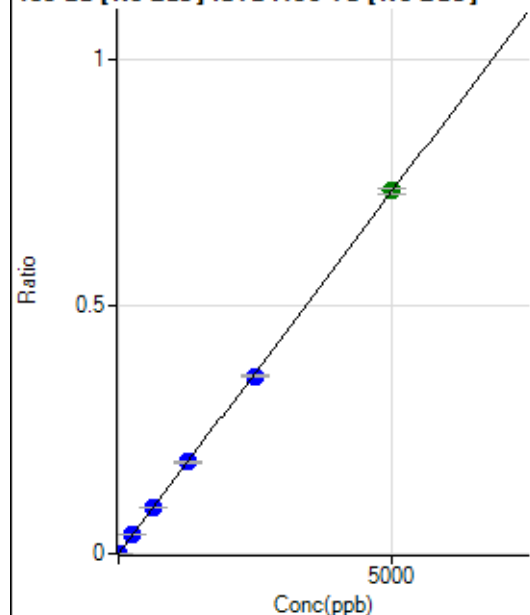
$$DL = 0.01936$$

$$BEC = 0.006463$$

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	11.11	0.0000	P	86.6
2	☐	10.000	9.402	4712.06	0.0014	P	4.8
3	☐	250.000	253.910	128077.14	0.0371	P	0.5
4	☐	625.000	633.267	329171.31	0.0926	P	0.6
5	☐	1250.000	1265.064	651549.70	0.1849	P	1.8
6	☐	2500.000	2458.566	1280102.99	0.3594	P	1.3
7	☐	5000.000	5015.723	2659187.78	0.7332	A	1.5
8	☐			51637.98	0.0146	P	4.8

$$y = 1.4618\text{E-}004 * x + 3.2770\text{E-}006$$

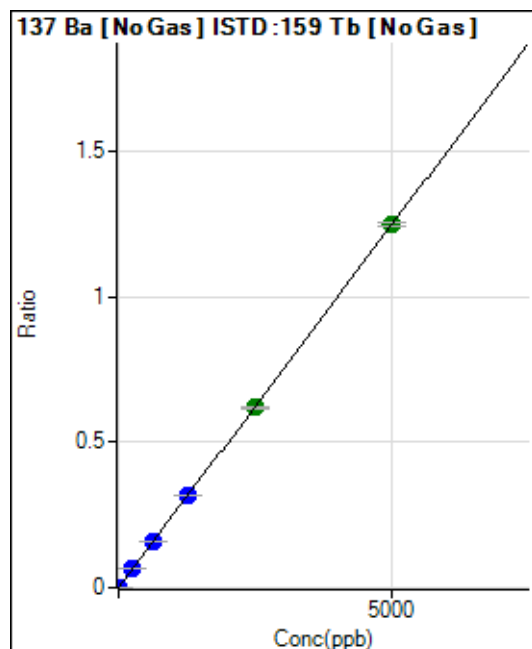
$$R = 0.9999$$

$$DL = 0.05824$$

$$BEC = 0.02242$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	19.44	0.0000	P	89.2
2	☐	10.000	9.393	8027.63	0.0023	P	1.2
3	☐	250.000	259.297	222987.54	0.0646	P	0.8
4	☐	625.000	638.136	565566.35	0.1591	P	0.5
5	☐	1250.000	1271.684	1116710.73	0.3170	P	1.5
6	☐	2500.000	2480.368	2201971.95	0.6182	A	0.8
7	☐	5000.000	5002.290	4521550.32	1.2468	A	1.2
8	☐			88598.26	0.0250	P	2.5

$$y = 2.4924E-004 * x + 5.7231E-006$$

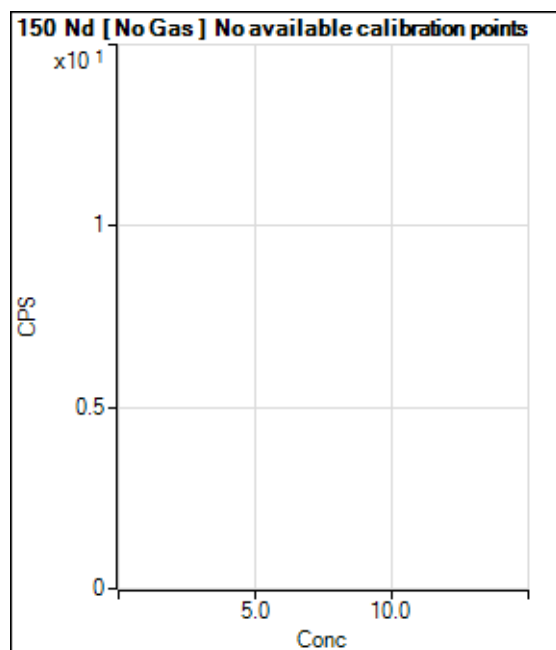
$$R = 1.0000$$

$$DL = 0.06147$$

$$BEC = 0.02296$$

Weight: <None>

Min Conc: 0



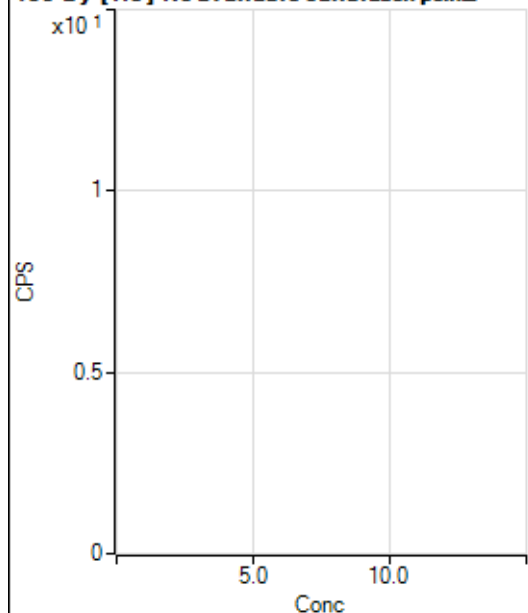
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.89		P	43.3
2	☐			11.11		P	91.7
3	☐			8.89		P	114.5
4	☐			20.00		P	33.4
5	☐			46.67		P	37.8
6	☐			57.78		P	37.1
7	☐			93.33		P	44.6
8	☐			8.89		P	43.3

150 Nd [He] No available calibration points

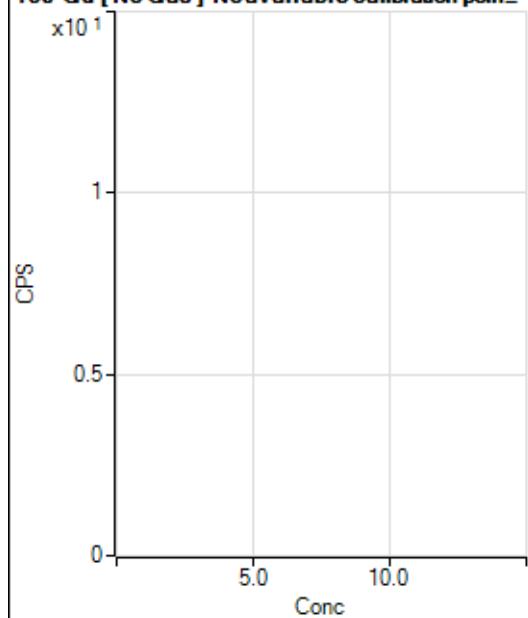
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			1.11		P	173.2
3	☐			0.00		P	
4	☐			5.55		P	69.3
5	☐			1.11		P	173.2
6	☐			8.89		P	57.3
7	☐			2.22		P	86.6
8	☐			0.00		P	

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.33		P	100.0
2	☐			8.33		P	173.2
3	☐			13.89		P	91.6
4	☐			13.89		P	34.7
5	☐			16.67		P	173.2
6	☐			58.34		P	37.8
7	☐			75.00		P	58.8
8	☐			180.56		P	20.8

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	100.1
2	☐			1.11		P	173.2
3	☐			5.55		P	69.3
4	☐			3.33		P	0.0
5	☐			6.67		P	50.0
6	☐			15.55		P	44.6
7	☐			31.11		P	27.0
8	☐			91.11		P	21.1

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			47.22		P	27.0
2	☐			25.00		P	0.0
3	☐			44.45		P	47.2
4	☐			33.33		P	0.0
5	☐			50.00		P	44.1
6	☐			47.23		P	56.7
7	☐			88.89		P	28.6
8	☐			225.01		P	7.4

160 Gd [He] No available calibration points

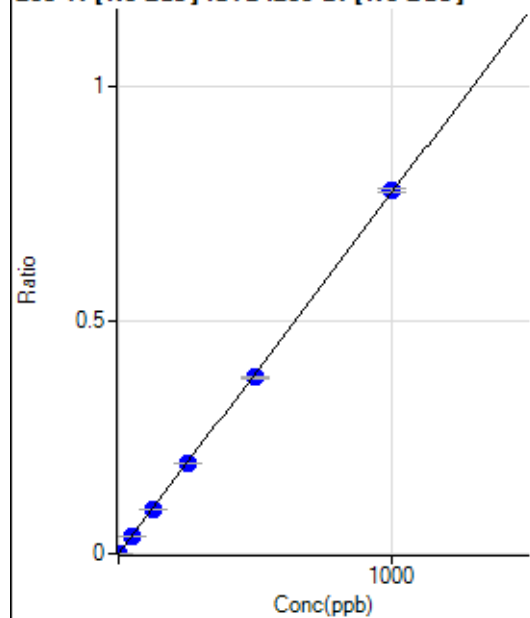
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			17.78		P	10.8
2	☐			10.00		P	33.3
3	☐			16.66		P	69.3
4	☐			22.22		P	31.2
5	☐			24.44		P	41.7
6	☐			36.67		P	27.3
7	☐			31.11		P	27.0
8	☐			116.67		P	33.7

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			22.22		P	21.6
2	☐			11.11		P	86.6
3	☐			33.33		P	0.0
4	☐			27.78		P	45.8
5	☐			2.78		P	173.2
6	☐			47.22		P	27.0
7	☐			41.66		P	34.6
8	☐			36.11		P	26.7

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			10.00		P	88.2
2	☐			6.67		P	0.0
3	☐			4.44		P	43.4
4	☐			20.00		P	72.7
5	☐			6.67		P	50.0
6	☐			8.89		P	57.3
7	☐			13.33		P	25.0
8	☐			21.11		P	77.9

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	38.89	0.0000	P	12.9
2	☐	1.000	0.948	1402.90	0.0008	P	5.5
3	☐	50.000	49.097	72145.02	0.0380	P	3.0
4	☐	125.000	123.968	184719.17	0.0958	P	2.0
5	☐	250.000	251.614	369444.57	0.1944	P	1.1
6	☐	500.000	487.989	735325.48	0.3771	P	1.7
7	☐	1000.000	1005.776	1534711.46	0.7771	P	1.0
8	☐			27262.57	0.0148	P	1.8

$$y = 7.7266E-004 * x + 2.0988E-005$$

$$R = 0.9999$$

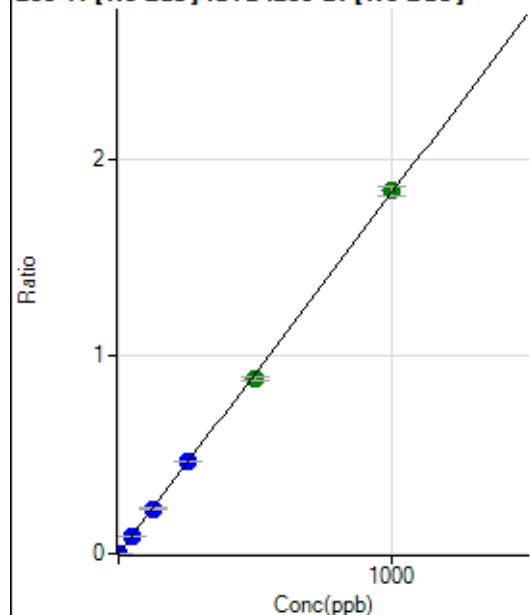
$$DL = 0.01051$$

$$BEC = 0.02716$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	94.45	0.0001	P	27.8
2	☐	1.000	0.961	3364.45	0.0018	P	2.8
3	☐	50.000	49.551	172077.82	0.0905	P	1.7
4	☐	125.000	125.107	440335.46	0.2284	P	2.2
5	☐	250.000	256.228	888849.91	0.4678	P	0.2
6	☐	500.000	483.417	1720793.94	0.8825	A	2.3
7	☐	1000.000	1006.744	3628711.80	1.8379	A	2.7
8	☐			66244.54	0.0359	P	0.5

$$y = 0.0018 * x + 5.0891E-005$$

$$R = 0.9998$$

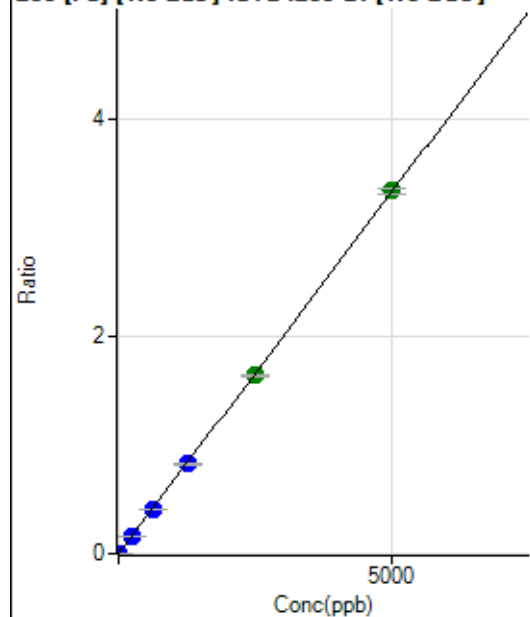
$$DL = 0.02322$$

$$BEC = 0.02788$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	112.97	0.0001	P	45.7
2	☐	1.000	0.876	1196.38	0.0006	P	3.1
3	☐	250.000	244.761	309077.54	0.1626	P	1.3
4	☐	625.000	610.862	781805.05	0.4056	P	2.6
5	☐	1250.000	1240.397	1564758.54	0.8236	P	0.9
6	☐	2500.000	2462.955	3188821.54	1.6352	A	1.0
7	☐	5000.000	5022.953	6585209.46	3.3348	A	1.8
8	☐			115566.06	0.0626	P	1.0

$$y = 6.6390E-004 * x + 6.0981E-005$$

$$R = 1.0000$$

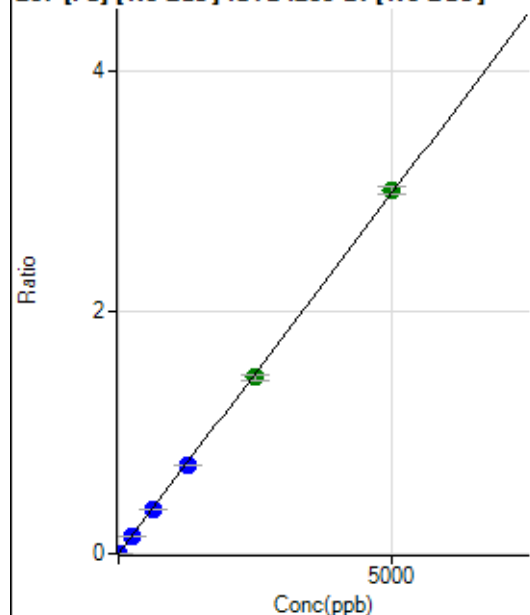
$$DL = 0.1259$$

$$BEC = 0.09185$$

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	148.15	0.0001	P	21.7
2	☐	1.000	0.797	1035.24	0.0006	P	3.0
3	☐	250.000	238.561	270781.00	0.1424	P	2.4
4	☐	625.000	608.956	700628.50	0.3635	P	2.3
5	☐	1250.000	1226.390	1390716.05	0.7319	P	0.4
6	☐	2500.000	2444.596	2844692.31	1.4589	A	2.5
7	☐	5000.000	5036.182	5934341.68	3.0054	A	2.2
8	☐			102840.41	0.0558	P	0.3

$$y = 5.9675E-004 * x + 8.0031E-005$$

$$R = 0.9999$$

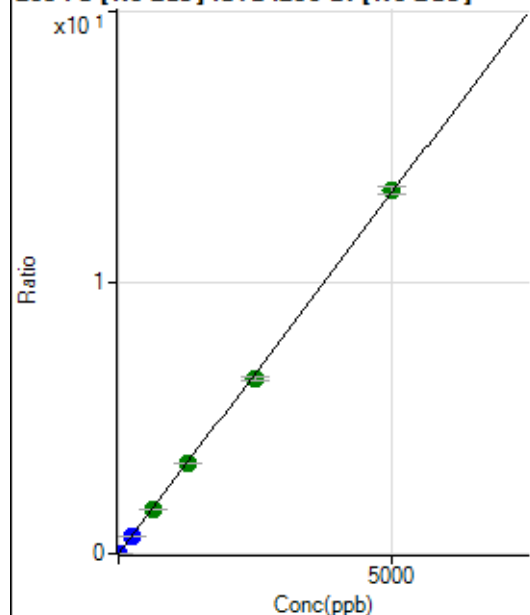
$$DL = 0.08746$$

$$BEC = 0.1341$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	505.57	0.0003	P	10.2
2	☐	1.000	0.859	4757.84	0.0026	P	0.6
3	☐	250.000	243.624	1230577.35	0.6472	P	1.6
4	☐	625.000	617.758	3162706.86	1.6408	A	2.4
5	☐	1250.000	1257.750	6346750.01	3.3404	A	0.7
6	☐	2500.000	2435.951	12614719.67	6.4692	A	1.9
7	☐	5000.000	5031.311	26383408.06	13.3615	A	1.9
8	☐			462584.79	0.2508	P	0.6

$$y = 0.0027 * x + 2.7287E-004$$

$$R = 0.9999$$

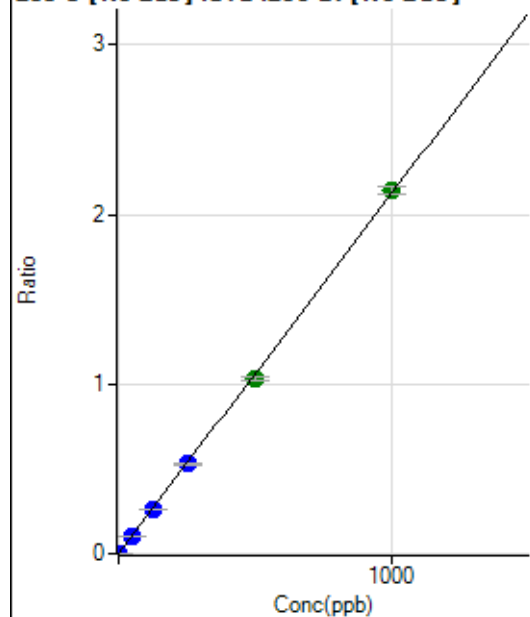
$$DL = 0.03149$$

$$BEC = 0.1028$$

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	22.22	0.0000	P	20.8
2	☐	1.000	0.879	3495.01	0.0019	P	7.8
3	☐	50.000	48.962	197740.17	0.1040	P	0.4
4	☐	125.000	124.409	509303.39	0.2642	P	1.6
5	☐	250.000	249.232	1005637.35	0.5292	P	1.3
6	☐	500.000	485.254	2009358.09	1.0304	A	2.7
7	☐	1000.000	1007.691	4225032.04	2.1398	A	2.3
8	☐			76035.88	0.0412	P	0.9

$$y = 0.0021 * x + 1.1971E-005$$

$$R = 0.9998$$

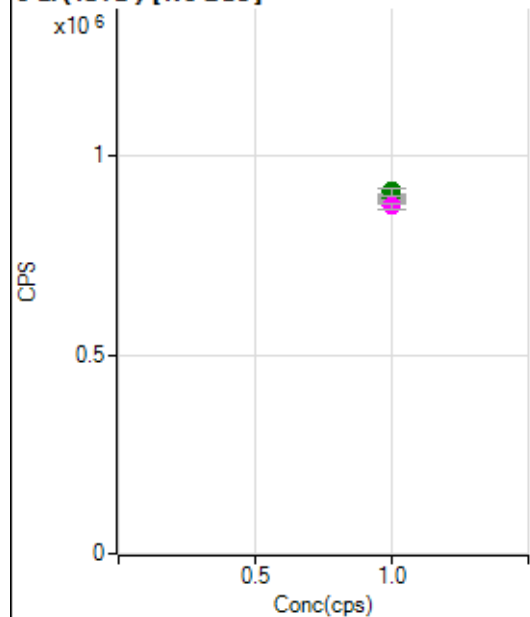
$$DL = 0.003517$$

$$BEC = 0.005638$$

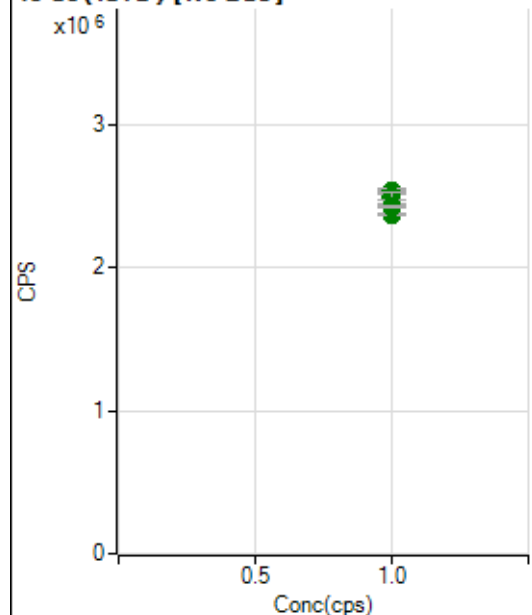
Weight: <None>

Min Conc: 0

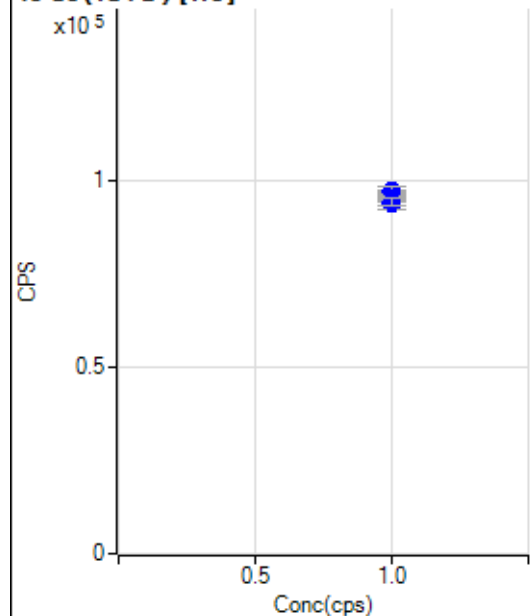
6 Li (ISTD) [No Gas]



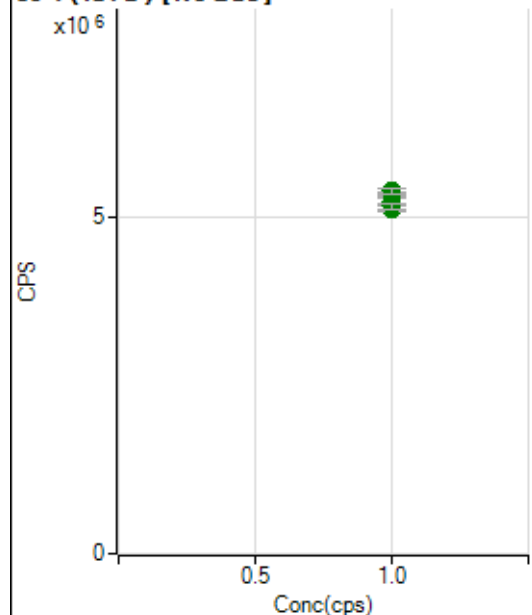
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		879451.54		M	0.3
2	☐	1.000		892740.48		A	0.3
3	☐	1.000		893023.32		A	2.9
4	☐	1.000		912164.28		A	1.6
5	☐	1.000		889790.40		A	2.1
6	☐	1.000		886293.30		A	0.8
7	☐	1.000		910313.04		A	2.0
8	☐	1.000		873756.83		M	1.5

45 Sc (ISTD) [No Gas]

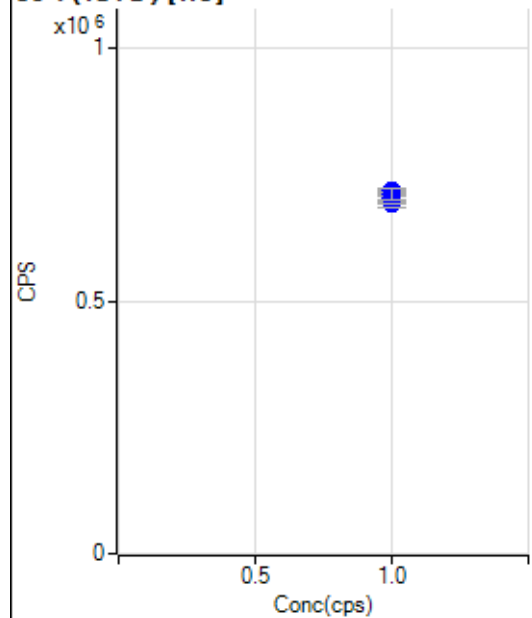
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2374781.44		A	0.8
2	☐	1.000		2421595.08		A	0.3
3	☐	1.000		2477872.39		A	3.2
4	☐	1.000		2535604.60		A	0.3
5	☐	1.000		2490565.64		A	3.0
6	☐	1.000		2538563.99		A	1.0
7	☐	1.000		2502051.72		A	1.8
8	☐	1.000		2429216.44		A	1.0

45 Sc (ISTD) [He]

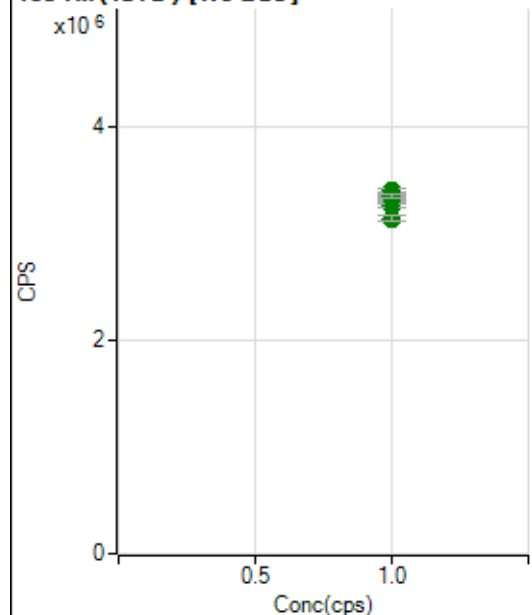
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		93717.63		P	1.3
2	☐	1.000		95755.39		P	2.6
3	☐	1.000		96831.47		P	1.1
4	☐	1.000		97258.82		P	2.4
5	☐	1.000		94978.95		P	0.6
6	☐	1.000		95510.58		P	1.3
7	☐	1.000		93933.67		P	3.8
8	☐	1.000		94350.12		P	2.0

89 Y (ISTD) [No Gas]

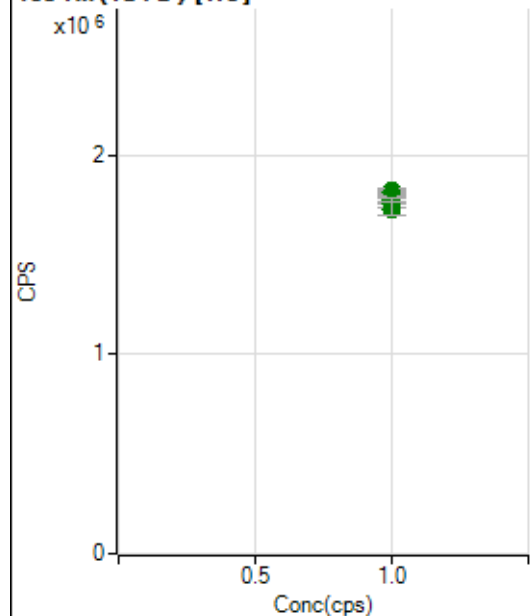
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5122638.78		A	0.7
2	☐	1.000		5171183.12		A	1.1
3	☐	1.000		5251030.55		A	2.1
4	☐	1.000		5404987.11		A	1.0
5	☐	1.000		5334715.79		A	0.7
6	☐	1.000		5373763.74		A	1.0
7	☐	1.000		5402003.88		A	2.0
8	☐	1.000		5176656.03		A	1.7

89 Y (ISTD) [He]

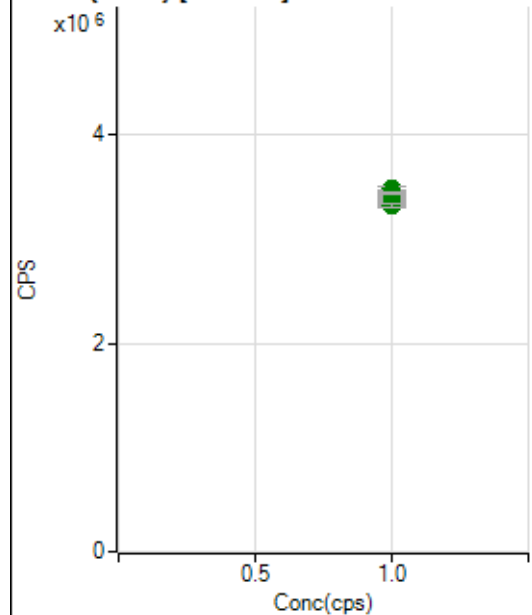
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		691128.28		P	1.5
2	☐	1.000		711700.60		P	3.1
3	☐	1.000		715557.64		P	0.6
4	☐	1.000		717970.48		P	1.1
5	☐	1.000		714636.19		P	0.4
6	☐	1.000		702273.36		P	1.5
7	☐	1.000		702702.86		P	3.2
8	☐	1.000		710604.35		P	3.4

103 Rh (ISTD) [No Gas]

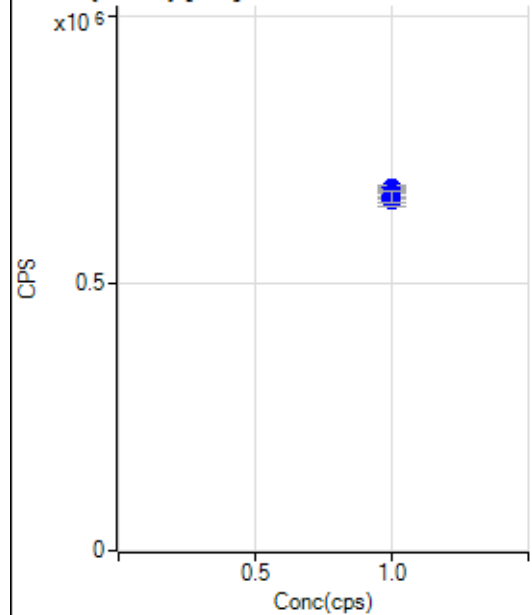
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3257520.97		A	0.8
2	☐	1.000		3299666.46		A	0.4
3	☐	1.000		3322004.35		A	2.5
4	☐	1.000		3398709.67		A	1.2
5	☐	1.000		3337693.83		A	1.3
6	☐	1.000		3363223.62		A	1.3
7	☐	1.000		3354502.44		A	0.9
8	☐	1.000		3140522.55		A	2.0

103 Rh (ISTD) [He]

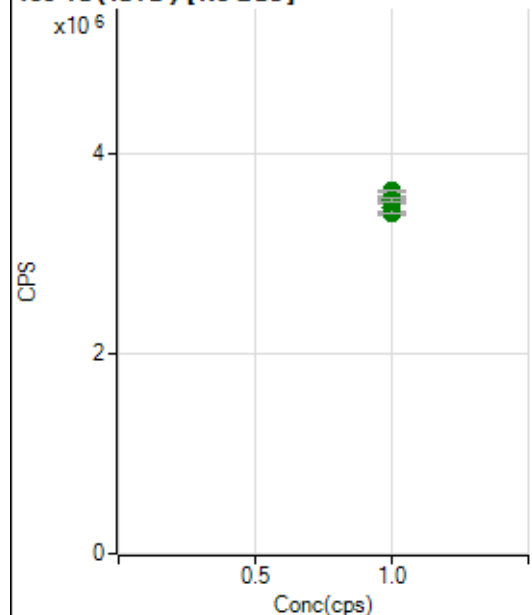
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1779416.59		A	2.5
2	☐	1.000		1791187.44		A	3.4
3	☐	1.000		1820556.95		A	0.6
4	☐	1.000		1813989.78		A	2.3
5	☐	1.000		1803279.42		A	0.1
6	☐	1.000		1791619.37		A	0.7
7	☐	1.000		1760395.50		A	3.1
8	☐	1.000		1731905.04		A	3.8

115 In (ISTD) [No Gas]

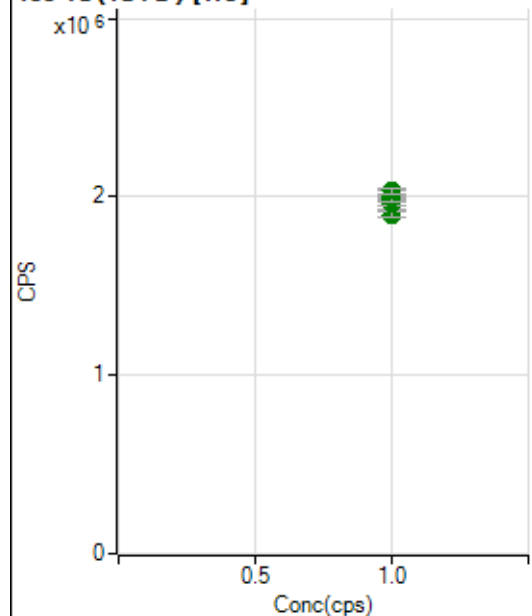
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3334126.03		A	0.6
2	☐	1.000		3388116.63		A	1.1
3	☐	1.000		3390642.33		A	2.5
4	☐	1.000		3479442.11		A	1.2
5	☐	1.000		3416365.23		A	1.5
6	☐	1.000		3434259.61		A	1.7
7	☐	1.000		3442699.40		A	0.7
8	☐	1.000		3322235.65		A	1.3

115 In (ISTD) [He]

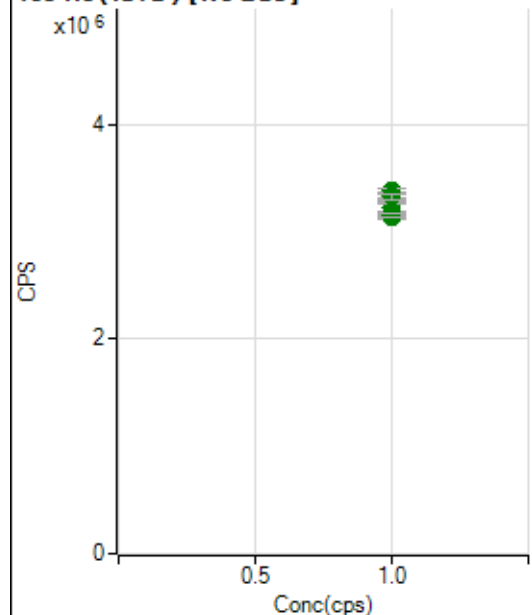
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		653814.05		P	1.3
2	☐	1.000		668977.55		P	3.5
3	☐	1.000		676403.30		P	1.0
4	☐	1.000		678057.44		P	1.0
5	☐	1.000		669567.36		P	0.0
6	☐	1.000		664407.36		P	1.2
7	☐	1.000		655896.71		P	3.6
8	☐	1.000		659810.42		P	3.3

159 Tb (ISTD) [No Gas]

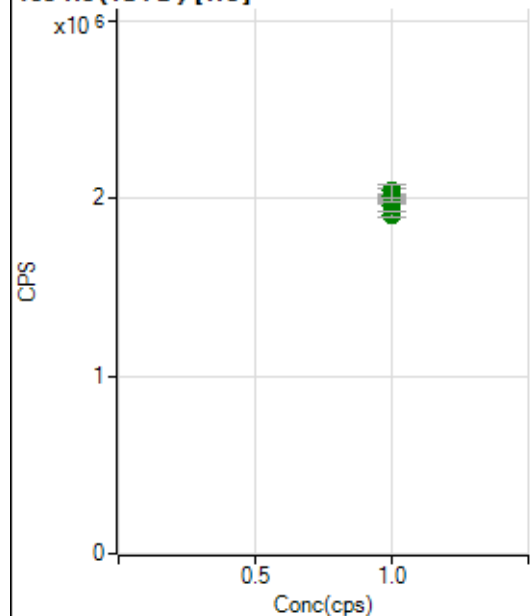
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3392862.69		A	0.2
2	☐	1.000		3420643.84		A	0.5
3	☐	1.000		3450489.22		A	2.6
4	☐	1.000		3555797.80		A	0.3
5	☐	1.000		3523441.30		A	1.1
6	☐	1.000		3561990.33		A	0.8
7	☐	1.000		3626673.90		A	0.5
8	☐	1.000		3542771.68		A	1.2

159 Tb (ISTD) [He]

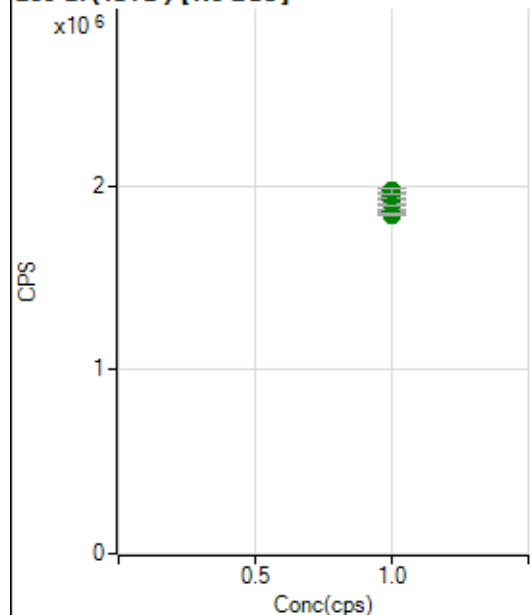
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1897944.78		A	1.7
2	☐	1.000		1956278.32		A	2.5
3	☐	1.000		1981586.38		A	1.3
4	☐	1.000		1989205.84		A	1.9
5	☐	1.000		1960317.82		A	0.8
6	☐	1.000		1988660.79		A	1.9
7	☐	1.000		2004896.43		A	3.2
8	☐	1.000		2032690.04		A	1.9

165 Ho (ISTD) [No Gas]

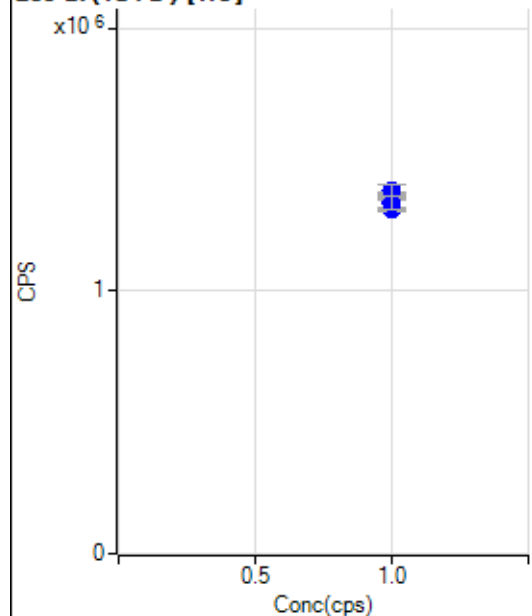
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3124315.58		A	1.2
2	☐	1.000		3158224.88		A	1.4
3	☐	1.000		3224092.08		A	3.4
4	☐	1.000		3277567.58		A	1.0
5	☐	1.000		3262610.99		A	0.3
6	☐	1.000		3358215.98		A	3.0
7	☐	1.000		3376917.46		A	0.9
8	☐	1.000		3322314.48		A	1.5

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1910061.27		A	1.6
2	☐	1.000		1965032.47		A	3.5
3	☐	1.000		1992264.38		A	1.9
4	☐	1.000		2003976.64		A	1.5
5	☐	1.000		1986572.12		A	0.6
6	☐	1.000		2009639.00		A	1.8
7	☐	1.000		2017652.61		A	3.6
8	☐	1.000		2044549.17		A	3.9

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1853869.16		A	1.0
2	☐	1.000		1862504.52		A	1.6
3	☐	1.000		1901835.67		A	2.9
4	☐	1.000		1928361.22		A	2.7
5	☐	1.000		1900101.27		A	1.0
6	☐	1.000		1950258.97		A	1.4
7	☐	1.000		1975008.95		A	1.7
8	☐	1.000		1844639.29		A	0.6

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1307764.34		P	1.1
2	☐	1.000		1338787.08		P	2.9
3	☐	1.000		1352067.30		P	1.2
4	☐	1.000		1365843.54		P	0.5
5	☐	1.000		1360815.68		P	0.3
6	☐	1.000		1363308.33		P	1.6
7	☐	1.000		1380338.80		P	3.0
8	☐	1.000		1333830.91		P	3.5

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8080620-MS.b
Acq. Date-Time 2020-08-06 12:27:47
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		2305	23053.90			0.619	5.000
24		24279	242789.17			0.437	5.000
25		3232	32324.78			0.794	5.000
26		3761	37609.74			0.495	5.000
59		17901	179009.73			0.522	5.000
113		2611	26110.15			1.105	5.000
115		8076	80763.82			0.960	5.000
206		2453	24527.64			1.665	5.000
207		2008	20077.66			1.157	5.000
208		5035	50348.40			0.845	5.000
220		1	12.80			16.710	

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

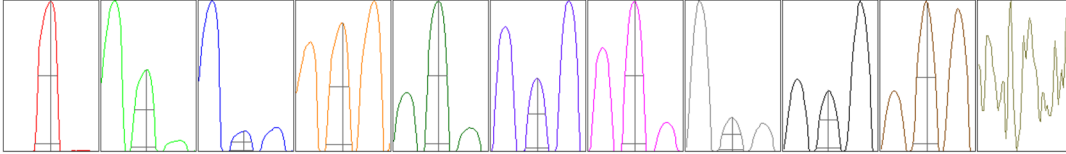
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	2309	2289	2323	2314	2292
24	24432	24246	24319	24255	24144
25	3214	3245	3249	3257	3197
26	3768	3738	3753	3789	3757
59	17908	17890	17924	18022	17761
113	2583	2605	2608	2660	2600
115	8187	7989	8030	8118	8057
206	2440	2440	2460	2517	2407
207	1999	1987	2030	2035	1988
208	5014	4978	5070	5083	5028

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	3997.72	9.00	8.90 - 9.10	
24	41498.09	23.95	23.90 - 24.10	
25	5406.75	24.95	24.90 - 25.10	
26	6400.50	26.00	25.90 - 26.10	
59	30556.21	58.95	58.90 - 59.10	
113	5016.23	113.00	112.90 - 113.10	
115	15022.03	115.00	114.90 - 115.10	
206	4465.13	206.00	205.90 - 206.10	
207	3762.26	206.95	206.90 - 207.10	
208	9122.68	208.00	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.61	0.776	0.900	
24	0.63	0.785	0.900	
25	0.63	0.742	0.900	
26	0.63	0.821	0.900	
59	0.61	0.782	0.900	
113	0.55	0.728	0.900	
115	0.56	0.765	0.900	
206	0.58	0.780	0.900	
207	0.57	0.783	0.900	
208	0.58	0.806	0.900	
220				

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode HMI Nebulizer Gas 0.49 L/min Dilution Gas 0.44 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	10.3 V	Deflect	15.0 V
Extract 2	-245.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-120 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	170 V		

QP Parameters

Mass Gain	123	Axis Gain	0.9994	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	-0.03		

Hardware Settings

Torch

Torch H	0.4 mm	Torch V	-0.1 mm
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EM

Discriminator	3.9 mV	Analog HV	2194 V	Pulse HV	1271 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		4662	46624.46			0.508	
89		9491	94908.66			0.372	
205		8318	83183.11			0.753	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	4634	4700	4658	4663	4658
89	9519	9488	9507	9431	9510
205	8319	8411	8252	8338	8270

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	HMI	Nebulizer Gas	0.49 L/min	Dilution Gas	0.44 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	10.3 V	Deflect	4.8 V
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US EPA Tune Check Report

Extract 2	-245.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-120 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	123	Axis Gain	0.9994	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.03		
Hardware Settings					
Torch					
Torch H	0.4 mm	Torch V	-0.1 mm		
EM					
Discriminator	3.9 mV	Analog HV	2194 V	Pulse HV	1271 V