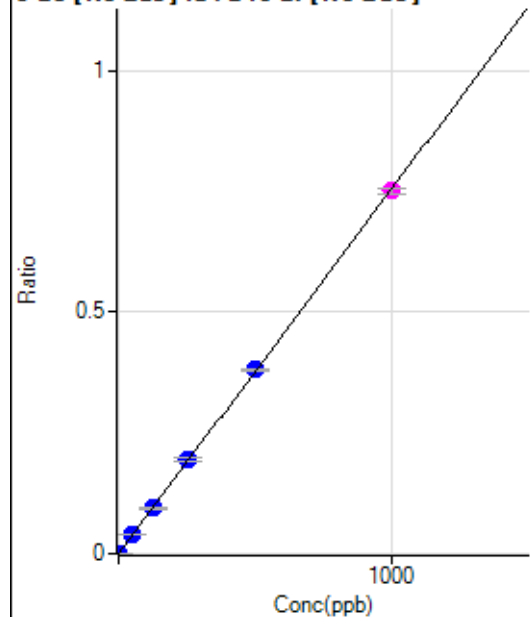


Calibration for 003CALB.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P8080920N.b\
 Analysis File: P8080920N.batch.bin
 DA Date-Time: 2020-08-09 21:15:48
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2020-08-09 17:16:31
2	004CALS.d	S02	2020-08-09 17:19:38
3	005CALS.d	S03	2020-08-09 17:22:41
4	006CALS.d	S04	2020-08-09 17:25:46
5	007CALS.d	S05	2020-08-09 17:28:45
6	008CALS.d	S06	2020-08-09 17:31:46
7	009CALS.d	S07	2020-08-09 17:34:44
8	010CALS.d	S08	2020-08-09 17:37:45

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	18.00	0.0000	P	50.9
2	☐	1.000	0.928	956.51	0.0007	P	7.7
3	☐	50.000	51.622	52432.07	0.0389	P	1.6
4	☐	125.000	125.878	128592.24	0.0949	P	4.7
5	☐	250.000	258.992	264983.78	0.1953	P	3.3
6	☐	500.000	504.486	517803.33	0.3804	P	1.6
7	☐	1000.000	995.318	1007128.82	0.7506	M	1.3
8	☐			163.30	0.0001	P	20.4

$$y = 7.5407\text{E-}004 * x + 1.3422\text{E-}005$$

$$R = 0.9999$$

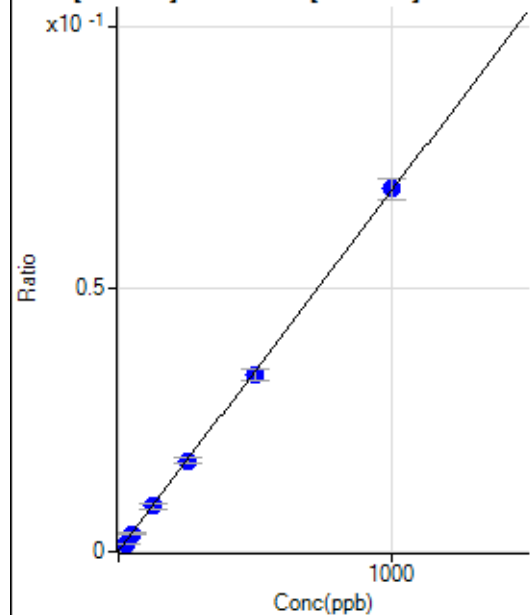
$$DL = 0.02716$$

$$BEC = 0.0178$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	153.97	0.0001	P	11.4
2	☐	25.000	20.730	2058.41	0.0015	P	13.7
3	☐	50.000	48.600	4643.16	0.0034	P	4.8
4	☐	125.000	123.971	11653.00	0.0086	P	10.4
5	☐	250.000	251.166	23530.81	0.0173	P	7.3
6	☐	500.000	489.577	45862.06	0.0337	P	6.6
7	☐	1000.000	1005.225	92675.97	0.0690	P	5.9
8	☐			7925.93	0.0057	P	12.7

$$y = 6.8545\text{E-}005 * x + 1.1476\text{E-}004$$

$$R = 0.9999$$

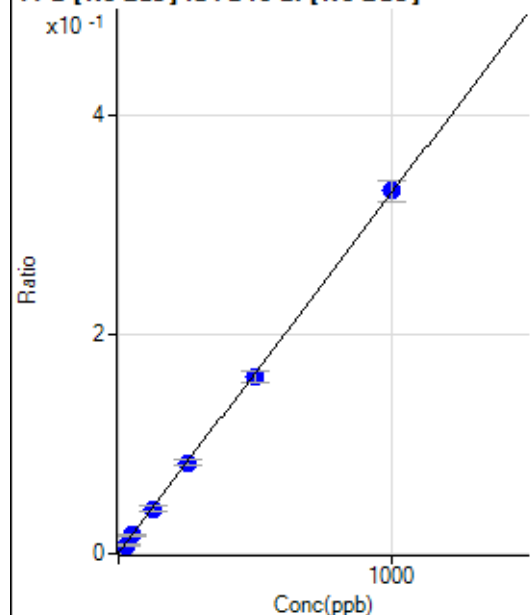
$$DL = 0.571$$

$$BEC = 1.674$$

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	642.56	0.0005	P	12.4
2	☐	25.000	21.576	10174.21	0.0076	P	9.2
3	☐	50.000	49.823	22755.73	0.0169	P	5.5
4	☐	125.000	123.174	55533.97	0.0411	P	10.9
5	☐	250.000	251.070	112944.57	0.0832	P	6.6
6	☐	500.000	489.308	220198.53	0.1617	P	6.8
7	☐	1000.000	1005.401	445319.80	0.3316	P	5.8
8	☐			37413.46	0.0269	P	10.8

$$y = 3.2939\text{E-}004 * x + 4.7915\text{E-}004$$

$$R = 0.9999$$

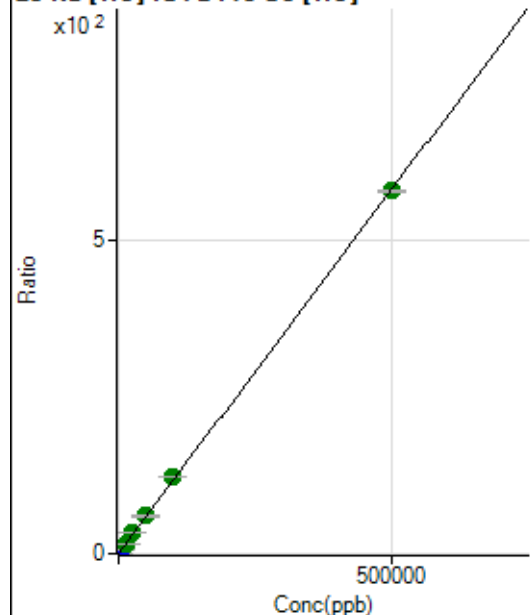
$$DL = 0.5412$$

$$BEC = 1.455$$

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	38384.42	0.2889	P	2.4
2	☐	500.000	498.006	114427.11	0.8670	P	0.8
3	☐	5000.000	5507.446	893971.93	6.6821	P	0.9
4	☐	12500.000	13518.701	2115484.49	15.9817	A	0.9
5	☐	25000.000	29116.813	4147863.29	34.0882	A	4.6
6	☐	50000.000	51966.539	8099889.24	60.6126	A	4.6
7	☐	100000.00	106324.05	16044382.48	123.7118	A	0.4
8	☐	500000.00	498302.15	78717093.43	578.7272	A	0.3

$$y = 0.0012 * x + 0.2889$$

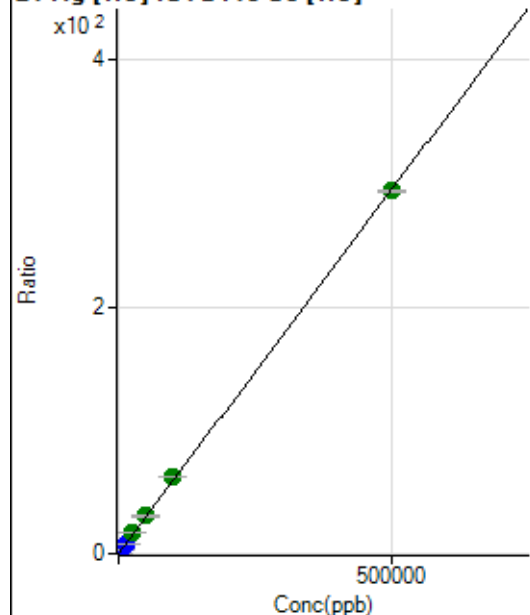
$$R = 0.9999$$

$$DL = 17.78$$

$$BEC = 248.9$$

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	344.46	0.0026	P	10.5
2	☐	500.000	491.365	38548.92	0.2921	P	1.4
3	☐	5000.000	5472.734	431705.23	3.2268	P	0.5
4	☐	12500.000	13616.302	1062227.79	8.0245	P	0.9
5	☐	25000.000	28991.421	2078132.36	17.0827	A	5.3
6	☐	50000.000	51854.040	4083028.52	30.5521	A	4.4
7	☐	100000.00	105194.30	8037937.51	61.9771	A	0.7
8	☐	500000.00	498543.53	39948691.52	293.7163	A	0.9

$$y = 5.8914\text{E-}004 * x + 0.0026$$

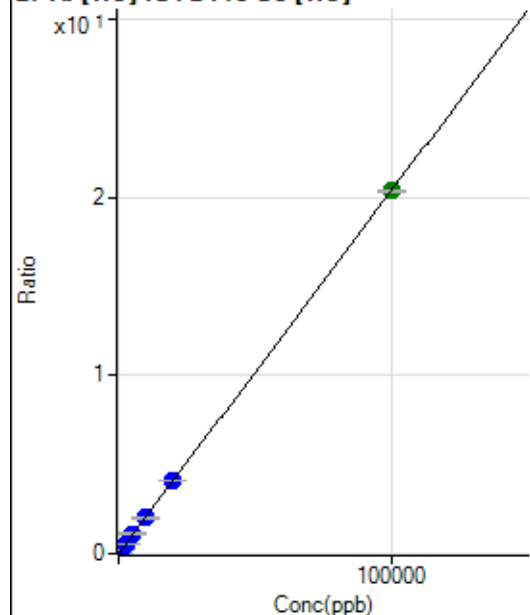
$$R = 0.9999$$

$$DL = 1.387$$

$$BEC = 4.397$$

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	677.88	0.0051	P	0.4
2	☐	20.000	19.738	1204.49	0.0091	P	7.0
3	☐	1000.000	1017.043	28409.95	0.2124	P	0.7
4	☐	2500.000	2551.883	69509.01	0.5251	P	1.3
5	☐	5000.000	5493.065	136784.29	1.1245	P	5.5
6	☐	10000.000	9861.705	269245.13	2.0147	P	4.4
7	☐	20000.000	20257.874	536039.99	4.1332	P	0.4
8	☐	100000.00	99936.134	2770663.42	20.3698	A	0.3

$$y = 2.0378\text{E-}004 * x + 0.0051$$

$$R = 1.0000$$

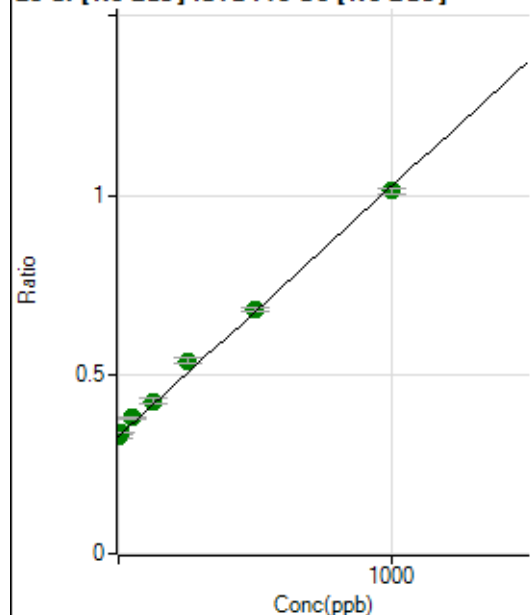
$$DL = 0.3132$$

$$BEC = 25.04$$

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	1002582.69	0.3275	A	1.9
2	☐	10.000	16.211	1025180.09	0.3388	A	1.1
3	☐	50.000	73.141	1160205.82	0.3786	A	1.6
4	☐	125.000	139.825	1317522.14	0.4251	A	4.2
5	☐	250.000	302.231	1642174.19	0.5385	A	3.3
6	☐	500.000	506.094	2124900.28	0.6809	A	1.9
7	☐	1000.000	980.823	3102507.99	1.0123	A	1.4
8	☐			1132120.40	0.3585	A	1.0

$$y = 6.9822\text{E-}004 * x + 0.3275$$

R = 0.9985

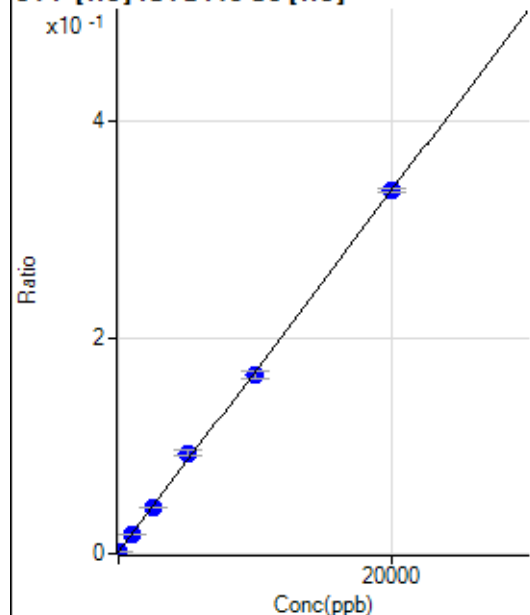
DL = 27.37

BEC = 469

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	-3.470	188.89	0.0014	P	11.6
2	☐	0.000	3.470	202.78	0.0015	P	22.0
3	☐	1000.000	971.418	2372.48	0.0177	P	4.4
4	☐	2500.000	2478.023	5684.59	0.0429	P	0.5
5	☐	5000.000	5483.504	11346.34	0.0932	P	5.1
6	☐	10000.000	9793.607	22095.12	0.1654	P	4.9
7	☐	20000.000	19986.497	43563.27	0.3359	P	1.1
8	☐			244.45	0.0018	P	12.4

$$y = 1.6732\text{E-}005 * x + 0.0015$$

R = 0.9996

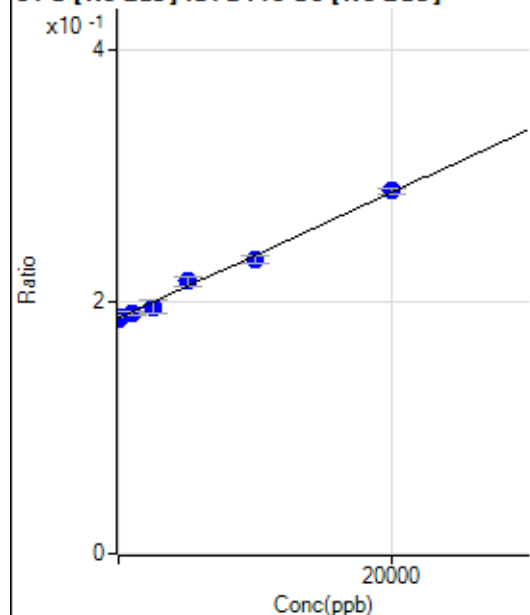
DL = 45.06

BEC = 88.47

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	-271.166	568537.37	0.1857	P	1.2
2	☐	0.000	271.166	570095.59	0.1884	P	0.7
3	☐	1000.000	794.382	585415.09	0.1910	P	1.4
4	☐	2500.000	1756.777	606729.13	0.1958	P	5.0
5	☐	5000.000	5882.123	659692.31	0.2164	P	3.8
6	☐	10000.000	9305.534	728460.72	0.2334	P	2.7
7	☐	20000.000	20229.886	882346.91	0.2879	P	1.4
8	☐			557885.03	0.1766	P	0.7

$$y = 4.9858\text{E-}006 * x + 0.1871$$

$$R = 0.9970$$

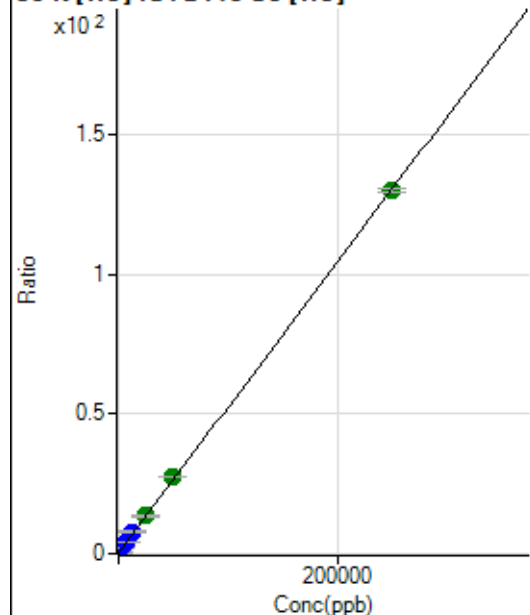
$$DL = 1051$$

$$BEC = 3.752\text{E}+04$$

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	41510.43	0.3124	P	1.5
2	☐	500.000	472.908	73707.98	0.5585	P	2.2
3	☐	2500.000	2724.569	231478.47	1.7302	P	0.6
4	☐	6250.000	6783.197	508586.78	3.8422	P	1.2
5	☐	12500.000	14592.201	961937.54	7.9058	P	4.7
6	☐	25000.000	25657.103	1825840.21	13.6637	A	4.8
7	☐	50000.000	52317.352	3571277.25	27.5369	A	0.4
8	☐	250000.00	249350.68	17691156.30	130.0676	A	1.0

$$y = 5.2037\text{E-}004 * x + 0.3124$$

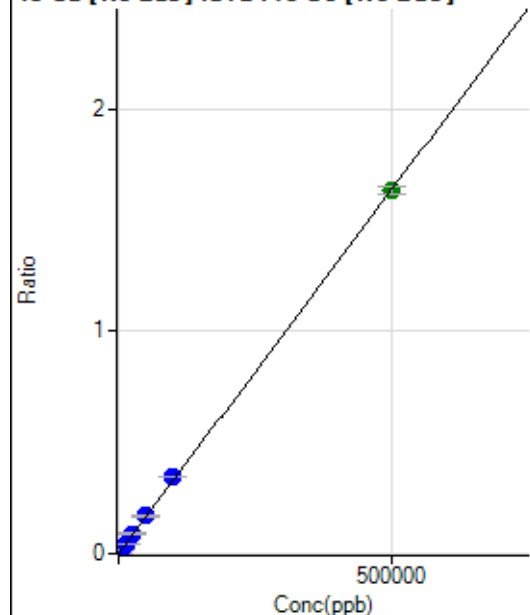
$$R = 0.9999$$

$$DL = 26.24$$

$$BEC = 600.4$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	733.37	0.0002	P	9.2
2	☐	500.000	493.595	5612.35	0.0019	P	3.6
3	☐	5000.000	5324.003	54133.28	0.0177	P	0.7
4	☐	12500.000	12834.657	130884.80	0.0422	P	4.5
5	☐	25000.000	27113.352	271178.58	0.0890	P	4.3
6	☐	50000.000	51786.211	529557.47	0.1697	P	1.7
7	☐	100000.00	104886.25	1052555.07	0.3434	P	1.0
8	☐	500000.00	498726.86	5154120.47	1.6321	A	2.2

$$y = 3.2720\text{E-}006 * x + 2.3956\text{E-}004$$

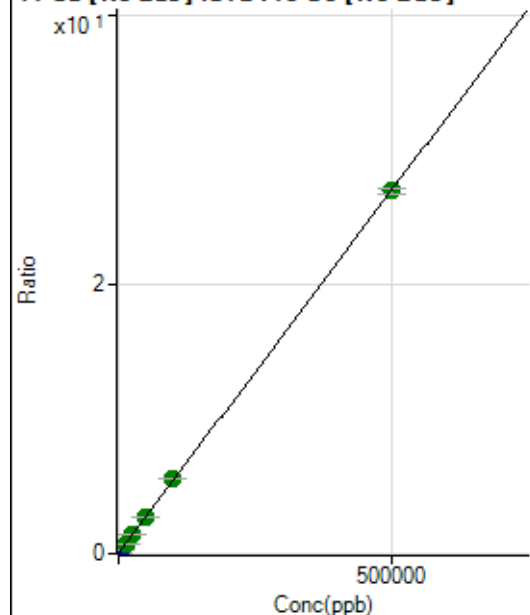
$$R = 0.9999$$

$$DL = 20.18$$

$$BEC = 73.22$$

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	61749.91	0.0202	P	2.4
2	☐	500.000	491.950	141283.73	0.0467	P	0.7
3	☐	5000.000	5345.232	944938.29	0.3083	P	1.5
4	☐	12500.000	12807.598	2201998.42	0.7106	A	4.8
5	☐	25000.000	26526.739	4421568.76	1.4502	A	4.0
6	☐	50000.000	50740.494	8601326.75	2.7555	A	0.3
7	☐	100000.00	102138.66	16937988.22	5.5263	A	0.6
8	☐	500000.00	499410.74	85091744.96	26.9426	A	1.7

$$y = 5.3908\text{E-}005 * x + 0.0202$$

$$R = 1.0000$$

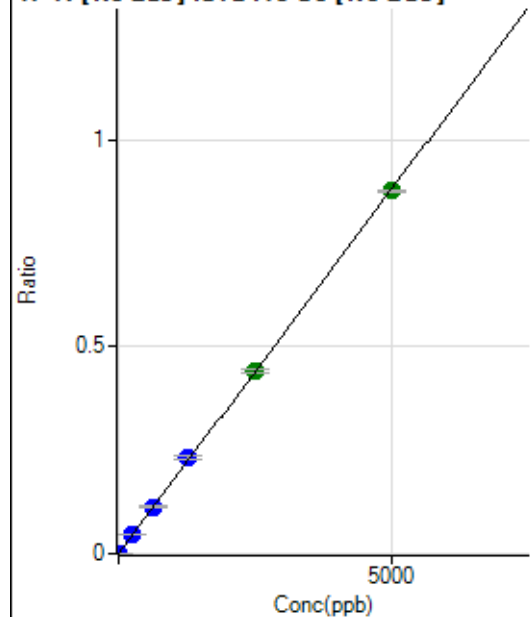
$$DL = 27.08$$

$$BEC = 374.2$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	708.37	0.0002	P	18.4
2	☐	5.000	4.646	3172.65	0.0010	P	1.9
3	☐	250.000	256.338	138940.35	0.0453	P	1.8
4	☐	625.000	635.447	347178.11	0.1120	P	4.9
5	☐	1250.000	1326.311	712036.29	0.2336	P	4.7
6	☐	2500.000	2500.130	1374100.61	0.4402	A	1.6
7	☐	5000.000	4979.235	2686211.04	0.8764	A	0.9
8	☐			769.49	0.0002	P	2.5

$$y = 1.7596\text{E-}004 * x + 2.3101\text{E-}004$$

$$R = 0.9999$$

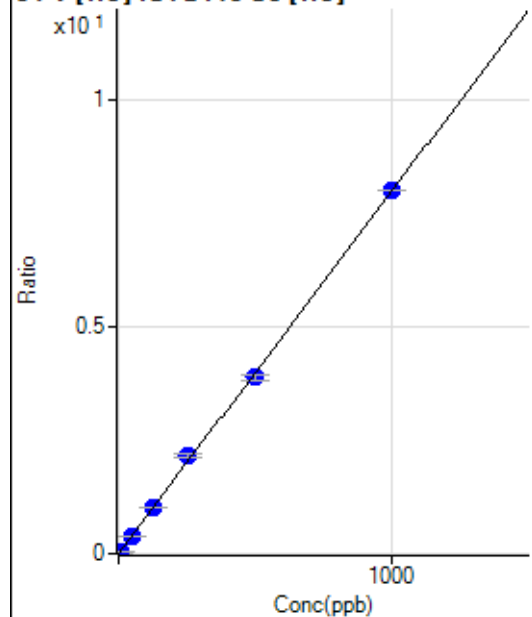
$$DL = 0.7264$$

$$BEC = 1.313$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	23.33	0.0002	P	15.0
2	☐	5.000	4.534	4790.84	0.0363	P	5.4
3	☐	50.000	49.855	53171.53	0.3974	P	1.1
4	☐	125.000	125.926	132850.01	1.0036	P	0.3
5	☐	250.000	270.597	262373.14	2.1564	P	4.7
6	☐	500.000	486.026	517628.95	3.8730	P	4.1
7	☐	1000.000	1001.731	1035241.22	7.9824	P	0.1
8	☐			135.56	0.0010	P	21.6

$$y = 0.0080 * x + 1.7572\text{E-}004$$

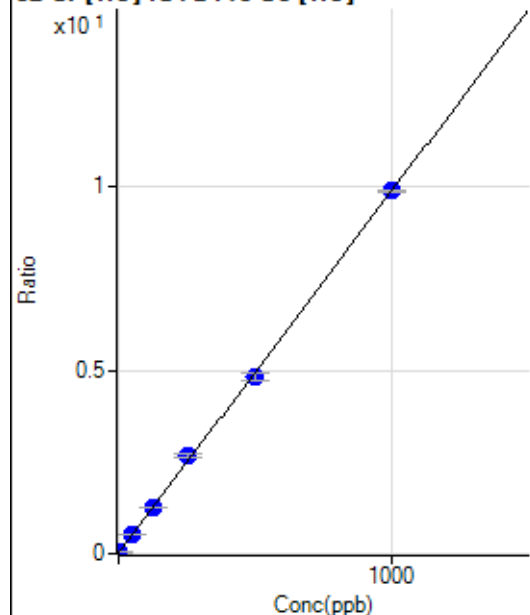
$$R = 0.9996$$

$$DL = 0.0099$$

$$BEC = 0.02205$$

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	1288.96	0.0097	P	1.9
2	☐	2.000	1.794	3616.06	0.0274	P	1.8
3	☐	50.000	49.929	67204.67	0.5023	P	1.2
4	☐	125.000	125.425	165095.11	1.2472	P	0.1
5	☐	250.000	271.891	327627.79	2.6923	P	4.2
6	☐	500.000	487.434	644044.15	4.8189	P	4.1
7	☐	1000.000	1000.761	1281816.00	9.8836	P	0.8
8	☐			6349.25	0.0467	P	3.5

$$y = 0.0099 * x + 0.0097$$

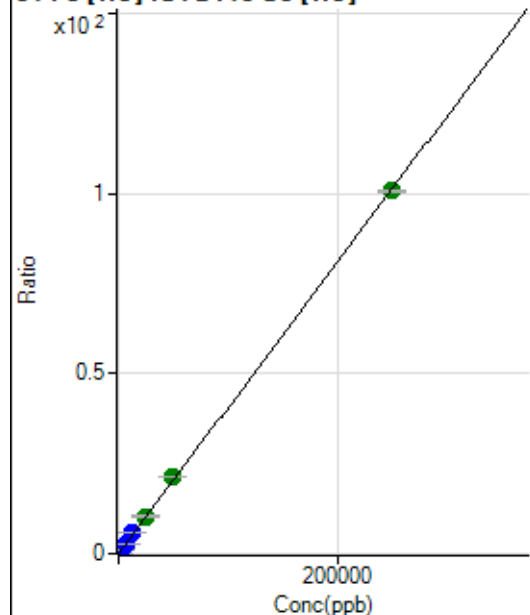
$$R = 0.9996$$

$$DL = 0.05669$$

$$BEC = 0.9832$$

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	588.91	0.0044	P	10.8
2	☐	50.000	48.437	3172.62	0.0240	P	5.7
3	☐	2500.000	2658.071	144550.79	1.0805	P	0.6
4	☐	6250.000	6576.833	353007.43	2.6668	P	1.1
5	☐	12500.000	14266.399	703231.75	5.7797	P	4.7
6	☐	25000.000	25563.801	1383826.16	10.3530	A	3.7
7	☐	50000.000	53291.026	2798394.57	21.5774	A	0.5
8	☐	250000.00	249187.34	13721054.59	100.8790	A	0.7

$$y = 4.0481E-004 * x + 0.0044$$

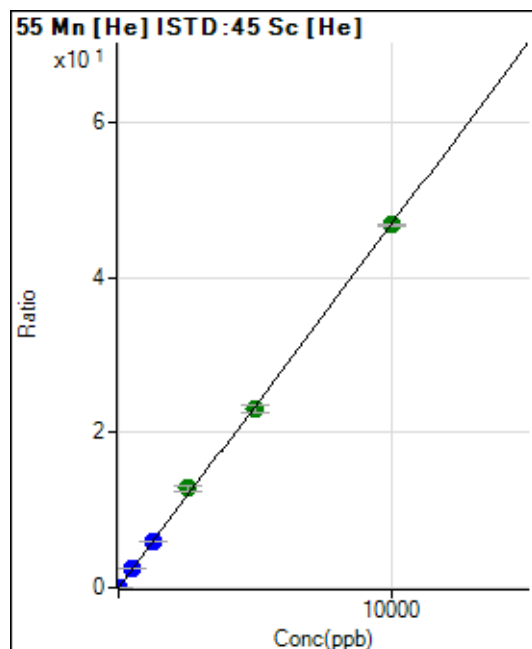
$$R = 0.9999$$

$$DL = 3.558$$

$$BEC = 10.95$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	130.00	0.0010	P	13.8
2	☐	1.000	0.997	745.58	0.0056	P	2.5
3	☐	500.000	504.955	316627.03	2.3666	P	0.9
4	☐	1250.000	1269.093	787151.23	5.9465	P	0.5
5	☐	2500.000	2736.099	1559150.58	12.8192	A	6.0
6	☐	5000.000	4914.512	3077670.54	23.0248	A	3.7
7	☐	10000.000	9981.085	6064512.82	46.7610	A	0.8
8	☐			4285.13	0.0315	P	2.1

$$y = 0.0047 * x + 9.7929E-004$$

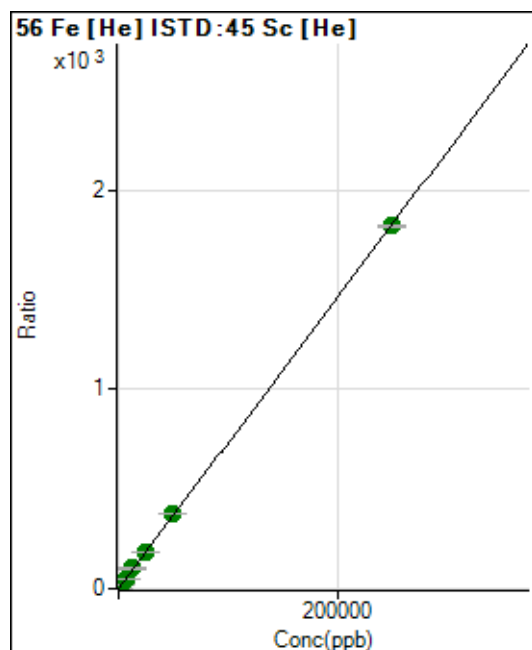
$$R = 0.9996$$

$$DL = 0.0866$$

$$BEC = 0.209$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3617.19	0.0272	P	1.6
2	☐	50.000	48.649	50407.60	0.3820	P	2.3
3	☐	2500.000	2655.044	2593758.54	19.3871	A	0.2
4	☐	6250.000	6486.708	6264667.21	47.3265	A	0.4
5	☐	12500.000	14089.822	12503060.58	102.7664	A	4.9
6	☐	25000.000	25221.270	24583989.90	183.9339	A	3.9
7	☐	50000.000	51719.445	48913022.39	377.1514	A	0.3
8	☐	250000.00	249547.02	247496622.2	1,819.656	A	0.9

$$y = 0.0073 * x + 0.0272$$

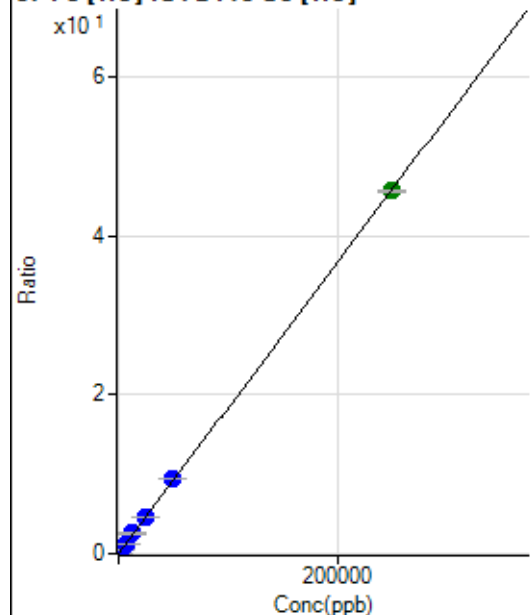
$$R = 1.0000$$

$$DL = 0.1822$$

$$BEC = 3.733$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	190.75	0.0014	P	2.5
2	☐	50.000	49.637	1388.98	0.0105	P	9.2
3	☐	2500.000	2558.347	62901.18	0.4702	P	1.0
4	☐	6250.000	6516.222	158222.30	1.1953	P	0.4
5	☐	12500.000	14066.092	313691.28	2.5785	P	5.2
6	☐	25000.000	25092.103	614628.05	4.5986	P	4.0
7	☐	50000.000	51600.445	1226272.05	9.4553	P	0.5
8	☐	250000.00	249585.15	6219721.32	45.7287	A	0.7

$$y = 1.8321\text{E-}004 * x + 0.0014$$

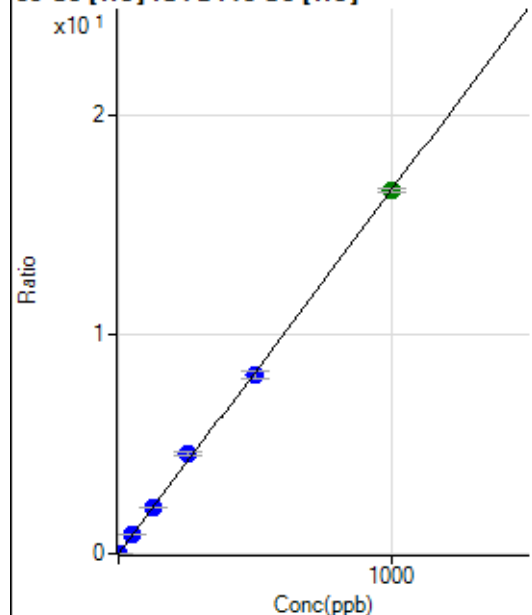
$$R = 1.0000$$

$$DL = 0.5879$$

$$BEC = 7.834$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	46.67	0.0004	P	15.3
2	☐	1.000	0.970	2167.97	0.0164	P	4.2
3	☐	50.000	50.802	112642.20	0.8419	P	0.7
4	☐	125.000	126.955	278441.48	2.1035	P	0.7
5	☐	250.000	274.522	553353.00	4.5481	P	4.9
6	☐	500.000	491.435	1088182.25	8.1415	P	3.8
7	☐	1000.000	997.867	2143906.08	16.5310	A	1.1
8	☐			3802.77	0.0280	P	3.1

$$y = 0.0166 * x + 3.5157\text{E-}004$$

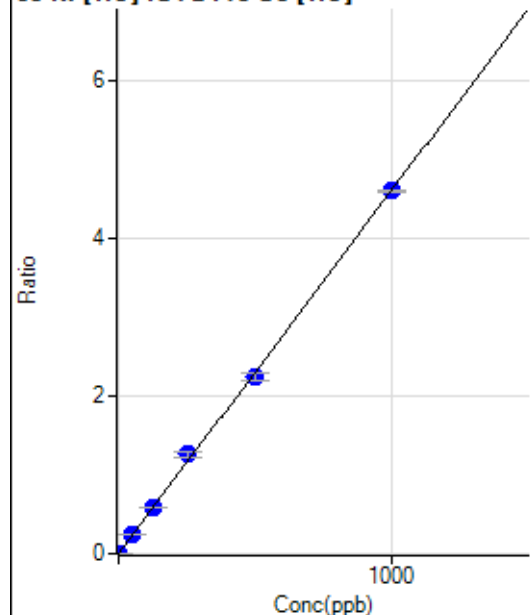
$$R = 0.9996$$

$$DL = 0.009723$$

$$BEC = 0.02122$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	108.89	0.0008	P	17.8
2	☐	1.000	1.086	766.69	0.0058	P	10.5
3	☐	50.000	50.861	31392.45	0.2346	P	1.2
4	☐	125.000	127.607	77765.31	0.5875	P	0.7
5	☐	250.000	273.853	153272.05	1.2598	P	5.1
6	☐	500.000	489.322	300755.10	2.2504	P	4.3
7	☐	1000.000	999.007	595757.42	4.5937	P	0.2
8	☐			2095.73	0.0154	P	1.2

$$y = 0.0046 * x + 8.1966E-004$$

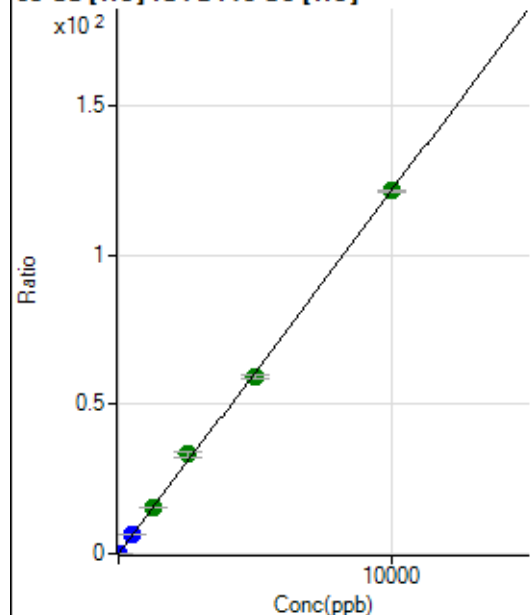
$$R = 0.9996$$

$$DL = 0.0952$$

$$BEC = 0.1783$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	862.26	0.0065	P	2.5
2	☐	2.000	1.955	3997.27	0.0303	P	3.2
3	☐	500.000	514.677	838724.12	6.2691	P	0.5
4	☐	1250.000	1280.058	2062634.88	15.5823	A	0.8
5	☐	2500.000	2739.305	4055517.68	33.3385	A	5.4
6	☐	5000.000	4878.546	7937148.15	59.3689	A	2.9
7	☐	10000.000	9996.410	15776075.04	121.6434	A	0.6
8	☐			4851.99	0.0357	P	2.4

$$y = 0.0122 * x + 0.0065$$

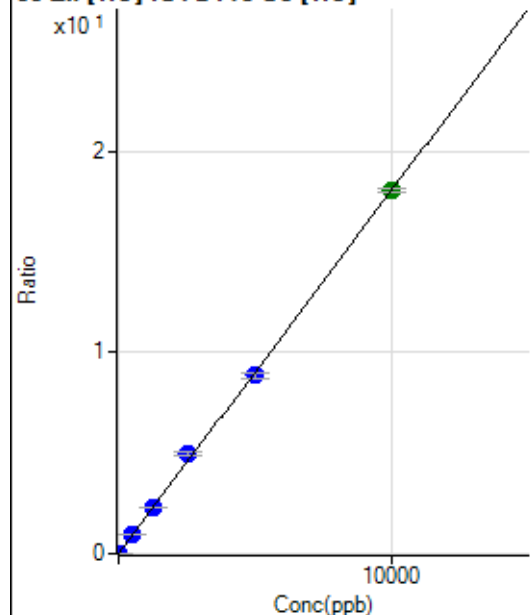
$$R = 0.9996$$

$$DL = 0.04071$$

$$BEC = 0.5333$$

Weight: <None>

Min Conc: 0

⁶⁶Zn [He] ISTD: ⁴⁵Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	584.46	0.0044	P	5.5
2	☐	2.000	2.228	1111.17	0.0084	P	3.3
3	☐	500.000	508.739	123388.00	0.9223	P	0.1
4	☐	1250.000	1271.583	304267.86	2.2986	P	0.3
5	☐	2500.000	2739.289	601865.68	4.9466	P	4.7
6	☐	5000.000	4896.655	1181402.59	8.8389	P	3.9
7	☐	10000.000	9988.715	2337809.77	18.0260	A	0.9
8	☐			3671.62	0.0270	P	3.9

$$y = 0.0018 * x + 0.0044$$

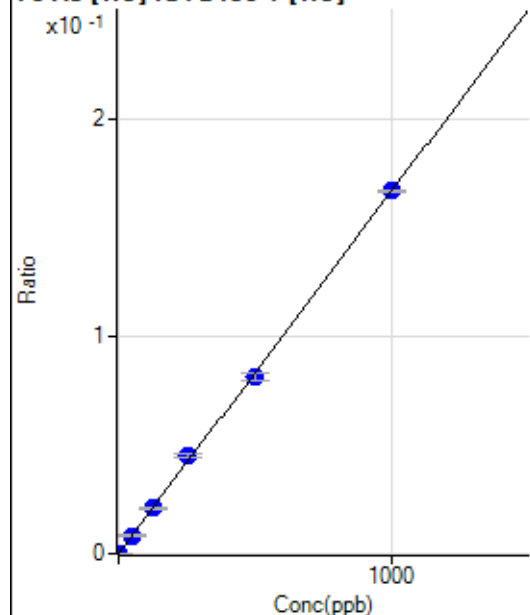
$$R = 0.9996$$

$$DL = 0.4057$$

$$BEC = 2.437$$

Weight: <None>

Min Conc: 0

⁷⁵As [He] ISTD: ⁸⁹Y [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	29.33	0.0000	P	16.7
2	☐	1.000	0.953	211.69	0.0002	P	8.2
3	☐	50.000	50.066	9704.31	0.0084	P	1.0
4	☐	125.000	124.565	24083.17	0.0208	P	0.6
5	☐	250.000	270.115	47941.16	0.0452	P	5.2
6	☐	500.000	488.209	94964.06	0.0816	P	3.5
7	☐	1000.000	1000.918	190241.57	0.1673	P	0.5
8	☐			97.01	0.0001	P	6.9

$$y = 1.6714E-004 * x + 2.5648E-005$$

$$R = 0.9997$$

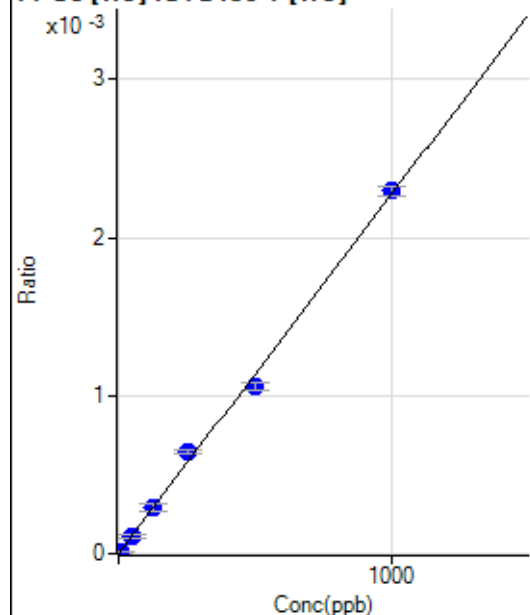
$$DL = 0.07666$$

$$BEC = 0.1535$$

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	2.22	0.0000	P	173.2
2	☐	5.000	3.841	12.22	0.0000	P	68.3
3	☐	50.000	47.775	127.78	0.0001	P	13.6
4	☐	125.000	127.558	336.68	0.0003	P	14.5
5	☐	250.000	282.372	684.47	0.0006	P	3.9
6	☐	500.000	464.654	1230.07	0.0011	P	5.0
7	☐	1000.000	1009.378	2609.16	0.0023	P	2.3
8	☐			2.22	0.0000	P	86.6

$$y = 2.2713\text{E-}006 * x + 1.9277\text{E-}006$$

$$R = 0.9985$$

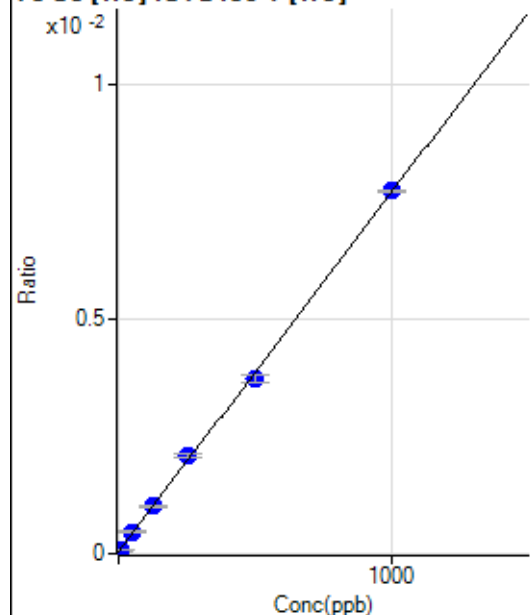
$$DL = 4.41$$

$$BEC = 0.8487$$

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	47.01	0.0000	P	23.9
2	☐	5.000	5.682	96.68	0.0001	P	11.2
3	☐	50.000	54.093	525.73	0.0005	P	7.0
4	☐	125.000	126.979	1169.17	0.0010	P	3.0
5	☐	250.000	267.077	2212.40	0.0021	P	2.7
6	☐	500.000	482.688	4341.11	0.0037	P	3.8
7	☐	1000.000	1003.931	8774.28	0.0077	P	0.5
8	☐			53.68	0.0000	P	11.5

$$y = 7.6458\text{E-}006 * x + 4.1056\text{E-}005$$

$$R = 0.9996$$

$$DL = 3.856$$

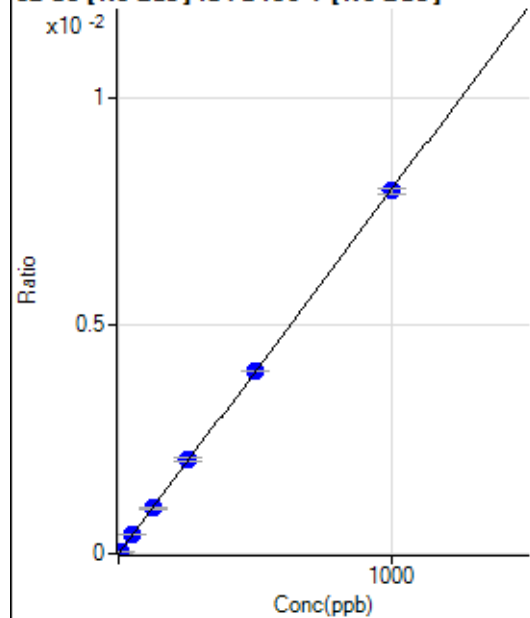
$$BEC = 5.37$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2476.11		P	6.5
2	☐			2509.47		P	6.0
3	☐			2265.87		P	6.5
4	☐			2402.69		P	0.4
5	☐			2376.00		P	13.5
6	☐			2476.11		P	1.3
7	☐			2422.72		P	9.2
8	☐			2569.56		P	3.7

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	-41.07	0.0000	P	-156.
2	☐	5.000	5.414	303.67	0.0000	P	18.5
3	☐	50.000	51.839	3242.25	0.0004	P	3.0
4	☐	125.000	124.213	8087.25	0.0010	P	5.8
5	☐	250.000	259.524	16464.96	0.0021	P	5.1
6	☐	500.000	502.022	32337.05	0.0040	P	0.6
7	☐	1000.000	996.613	64073.91	0.0080	P	1.5
8	☐			25.35	0.0000	P	246.6

$$y = 7.9936E-006 * x - 5.0475E-006$$

$$R = 0.9999$$

$$DL = 2.972$$

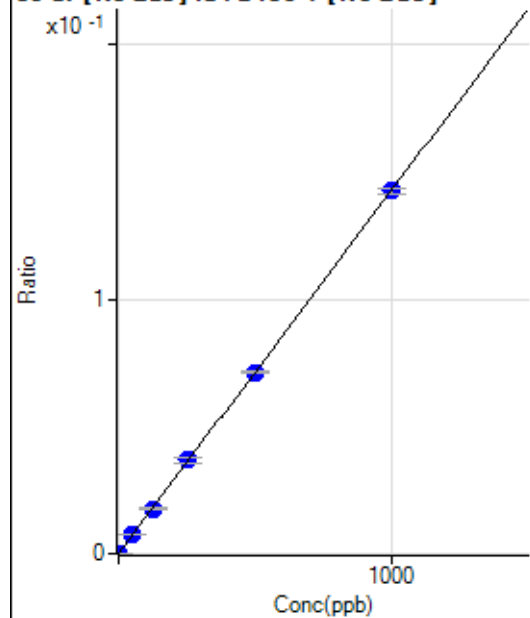
$$BEC = -0.6314$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			404.45		P	16.7
2	☐			403.34		P	10.1
3	☐			438.90		P	5.7
4	☐			384.45		P	4.8
5	☐			386.68		P	3.8
6	☐			392.23		P	9.3
7	☐			380.01		P	4.9
8	☐			391.12		P	7.7

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	575.03	0.0001	P	17.4
2	☐	1.000	0.957	1650.14	0.0002	P	6.8
3	☐	50.000	51.381	58576.18	0.0074	P	2.9
4	☐	125.000	122.565	143669.16	0.0175	P	4.3
5	☐	250.000	257.795	292930.44	0.0368	P	5.3
6	☐	500.000	499.451	574989.70	0.0713	P	0.9
7	☐	1000.000	998.561	1146098.59	0.1424	P	1.8
8	☐			6885.20	0.0008	P	1.2

$$y = 1.4254E-004 * x + 7.1378E-005$$

$$R = 1.0000$$

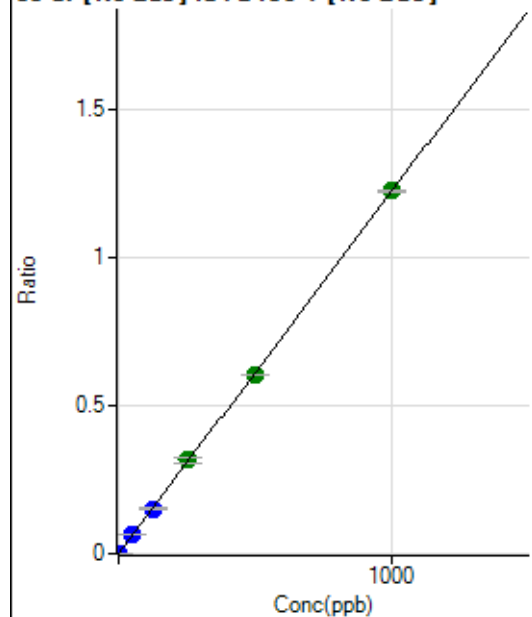
$$DL = 0.2612$$

$$BEC = 0.5008$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	55.56	0.0000	P	35.5
2	☐	1.000	0.939	9156.03	0.0012	P	3.4
3	☐	50.000	51.144	494977.19	0.0625	P	0.7
4	☐	125.000	123.771	1238532.93	0.1512	P	4.1
5	☐	250.000	259.122	2518150.71	0.3166	A	5.7
6	☐	500.000	492.075	4850201.93	0.6011	A	0.3
7	☐	1000.000	1001.778	9849706.12	1.2238	A	0.8
8	☐			55170.41	0.0066	P	0.6

$$y = 0.0012 * x + 6.9108E-006$$

$$R = 0.9999$$

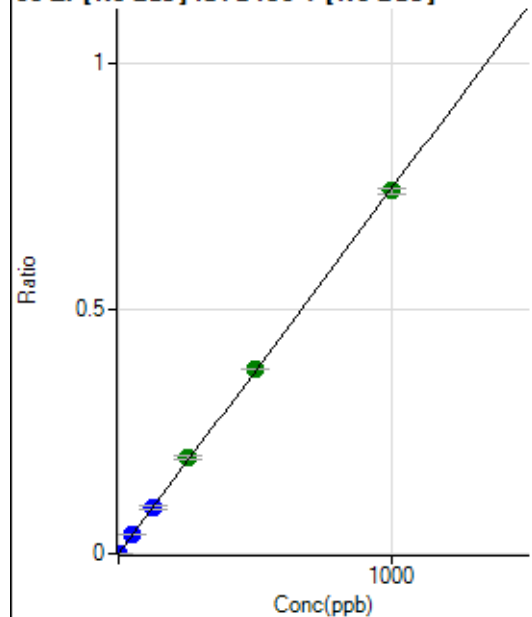
$$DL = 0.006031$$

$$BEC = 0.005657$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	333.34	0.0000	P	3.1
2	☐	1.000	0.939	5884.74	0.0007	P	6.8
3	☐	50.000	51.771	306093.95	0.0386	P	0.5
4	☐	125.000	126.129	770271.56	0.0941	P	5.5
5	☐	250.000	262.176	1555788.74	0.1955	A	4.5
6	☐	500.000	505.411	3040563.29	0.3769	A	0.7
7	☐	1000.000	994.021	5964829.38	0.7412	A	1.4
8	☐			2005.76	0.0002	P	11.5

$$y = 7.4557E-004 * x + 4.1332E-005$$

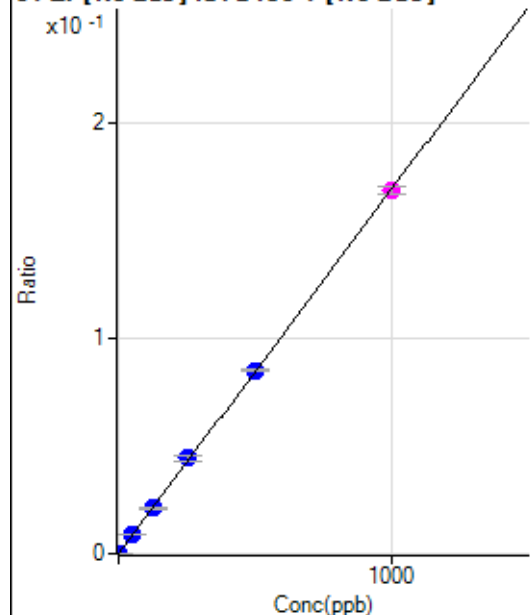
$$R = 0.9999$$

$$DL = 0.005101$$

$$BEC = 0.05544$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	80.56	0.0000	P	24.9
2	☐	1.000	0.899	1283.43	0.0002	P	8.5
3	☐	50.000	50.617	67815.07	0.0086	P	0.4
4	☐	125.000	124.186	171820.16	0.0210	P	5.8
5	☐	250.000	261.406	351403.20	0.0442	P	5.2
6	☐	500.000	502.753	685281.78	0.0849	P	1.1
7	☐	1000.000	995.843	1353888.03	0.1682	M	2.0
8	☐			444.47	0.0001	P	1.8

$$y = 1.6893\text{E-}004 * x + 9.9727\text{E-}006$$

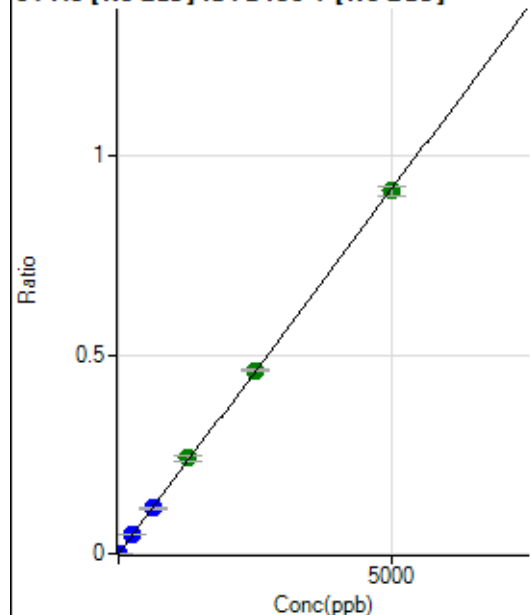
$$R = 0.9999$$

$$DL = 0.04416$$

$$BEC = 0.05904$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	150.01	0.0000	P	15.5
2	☐	5.000	4.657	6915.79	0.0009	P	1.1
3	☐	250.000	258.249	374790.92	0.0473	P	0.5
4	☐	625.000	622.101	932958.45	0.1139	P	5.3
5	☐	1250.000	1305.987	1903452.06	0.2392	A	4.1
6	☐	2500.000	2515.984	3717647.57	0.4608	A	0.5
7	☐	5000.000	4977.962	7336397.99	0.9116	A	2.5
8	☐			2111.33	0.0003	P	2.2

$$y = 1.8313\text{E-}004 * x + 1.8582\text{E-}005$$

$$R = 0.9999$$

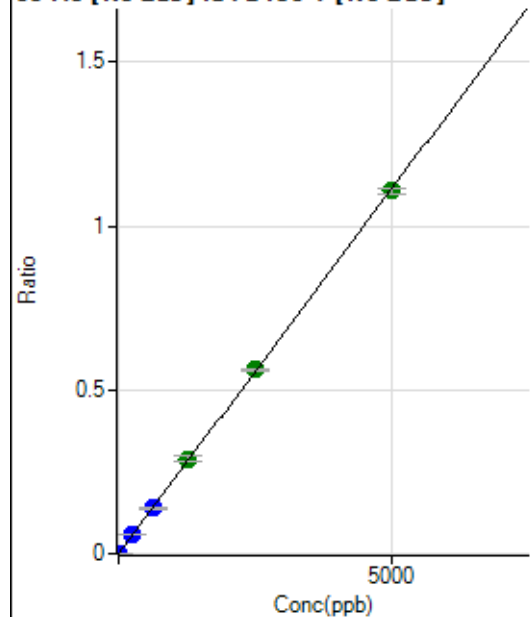
$$DL = 0.04708$$

$$BEC = 0.1015$$

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	55.55	0.0000	P	36.9
2	☐	5.000	4.623	8222.07	0.0010	P	3.4
3	☐	250.000	259.205	457132.17	0.0577	P	2.0
4	☐	625.000	627.082	1143183.00	0.1396	P	5.0
5	☐	1250.000	1303.266	2308588.64	0.2901	A	4.9
6	☐	2500.000	2521.068	4528225.32	0.5612	A	0.3
7	☐	5000.000	4975.429	8914043.78	1.1076	A	1.7
8	☐			2389.17	0.0003	P	4.2

$$y = 2.2262\text{E-}004 * x + 6.8757\text{E-}006$$

$$R = 0.9999$$

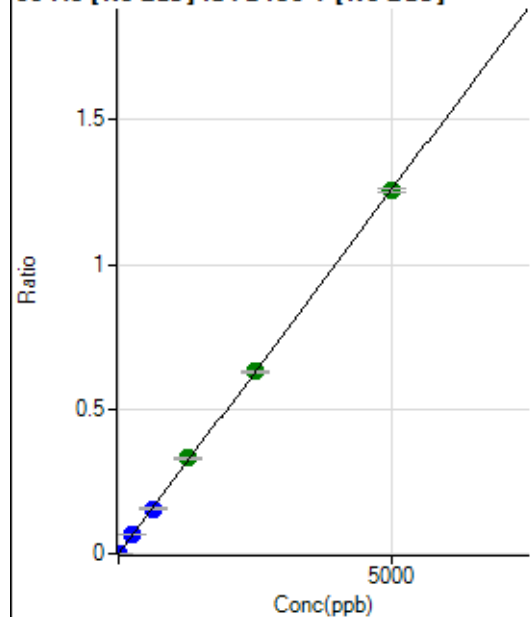
$$DL = 0.03416$$

$$BEC = 0.03089$$

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	66.67	0.0000	P	33.9
2	☐	5.000	4.426	8903.10	0.0011	P	2.8
3	☐	250.000	253.937	506183.27	0.0639	P	1.4
4	☐	625.000	615.008	1267362.16	0.1548	P	4.6
5	☐	1250.000	1308.732	2620796.98	0.3293	A	3.7
6	☐	2500.000	2502.424	5080158.88	0.6296	A	0.7
7	☐	5000.000	4985.158	10094942.67	1.2543	A	1.0
8	☐			3314.38	0.0004	P	2.2

$$y = 2.5161\text{E-}004 * x + 8.2808\text{E-}006$$

$$R = 0.9999$$

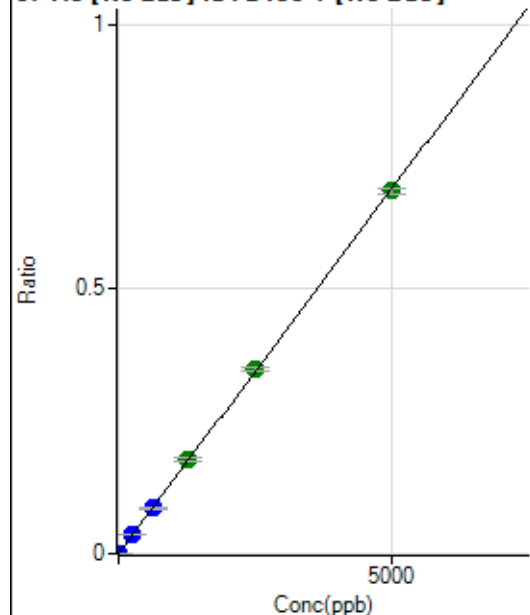
$$DL = 0.03345$$

$$BEC = 0.03291$$

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	22.22	0.0000	P	57.8
2	☐	5.000	4.557	5001.06	0.0006	P	6.1
3	☐	250.000	260.894	284659.64	0.0359	P	0.9
4	☐	625.000	623.288	703234.67	0.0858	P	3.7
5	☐	1250.000	1288.934	1412826.62	0.1775	A	3.8
6	☐	2500.000	2525.572	2806708.57	0.3478	A	1.7
7	☐	5000.000	4977.150	5516988.80	0.6855	A	1.8
8	☐			1397.33	0.0002	P	6.9

$$y = 1.3773\text{E-}004 * x + 2.7676\text{E-}006$$

$$R = 0.9999$$

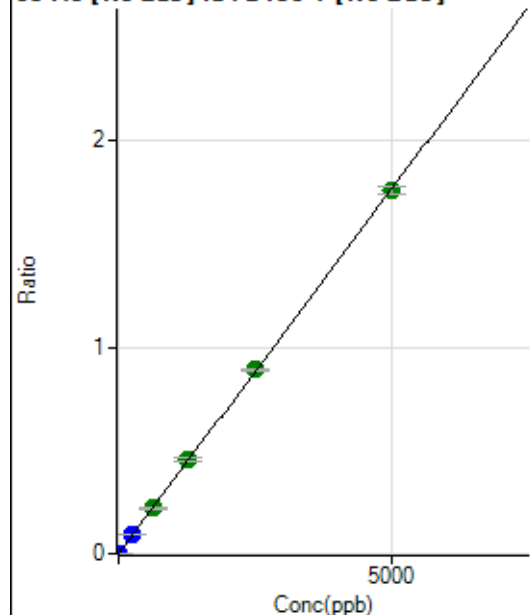
$$DL = 0.03483$$

$$BEC = 0.0201$$

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	27.78	0.0000	P	34.1
2	☐	5.000	4.696	13176.05	0.0017	P	3.5
3	☐	250.000	258.603	722956.51	0.0913	P	0.5
4	☐	625.000	620.251	1793005.18	0.2189	A	3.9
5	☐	1250.000	1299.831	3649704.81	0.4587	A	4.9
6	☐	2500.000	2520.092	7175449.64	0.8893	A	1.1
7	☐	5000.000	4977.660	14136571.67	1.7566	A	2.2
8	☐			3672.81	0.0004	P	10.2

$$y = 3.5290\text{E-}004 * x + 3.4388\text{E-}006$$

$$R = 0.9999$$

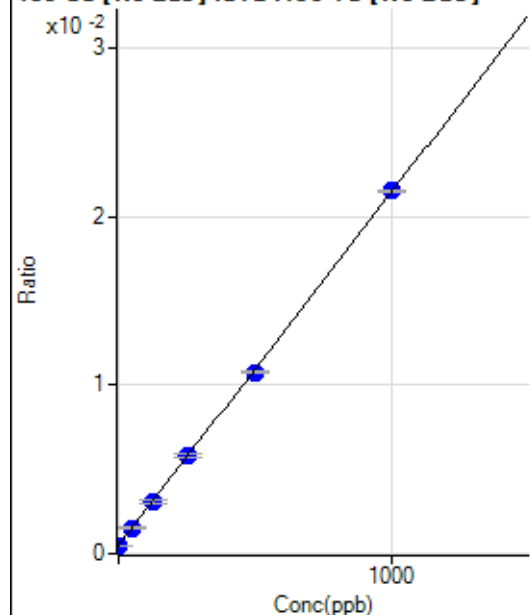
$$DL = 0.009956$$

$$BEC = 0.009744$$

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	2075.22	0.0005	P	4.2
2	☐	1.000	-0.348	2022.43	0.0005	P	5.1
3	☐	50.000	49.761	6510.04	0.0015	P	3.2
4	☐	125.000	124.667	13317.80	0.0031	P	5.8
5	☐	250.000	254.233	25181.80	0.0058	P	4.4
6	☐	500.000	490.850	46841.28	0.0108	P	0.4
7	☐	1000.000	1003.572	93046.25	0.0216	P	0.6
8	☐			2241.91	0.0005	P	8.2

$$y = 2.0997\text{E-}005 * x + 4.8931\text{E-}004$$

$$R = 0.9999$$

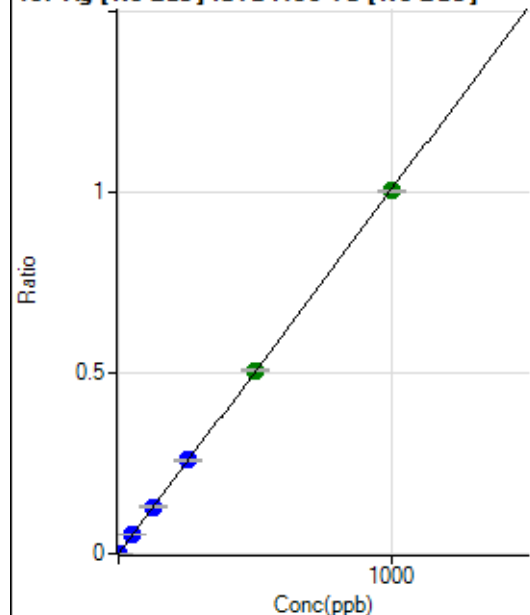
$$DL = 2.964$$

$$BEC = 23.3$$

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	47.22	0.0000	P	51.8
2	☐	1.000	0.958	4092.40	0.0010	P	5.2
3	☐	50.000	52.053	222482.29	0.0524	P	3.5
4	☐	125.000	127.383	550009.01	0.1283	P	5.0
5	☐	250.000	257.374	1120335.65	0.2592	P	2.9
6	☐	500.000	503.519	2200231.82	0.5071	A	0.3
7	☐	1000.000	995.997	4328382.04	1.0030	A	0.8
8	☐			2416.94	0.0005	P	2.7

$$y = 0.0010 * x + 1.1162\text{E-}005$$

$$R = 1.0000$$

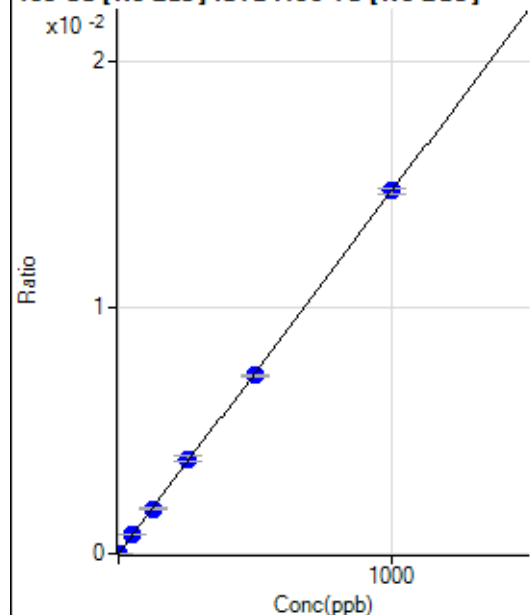
$$DL = 0.01722$$

$$BEC = 0.01108$$

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	8.33	0.0000	P	50.4
2	☐	1.000	1.213	83.33	0.0000	P	12.8
3	☐	50.000	52.306	3282.38	0.0008	P	3.6
4	☐	125.000	123.434	7818.98	0.0018	P	2.9
5	☐	250.000	262.449	16733.89	0.0039	P	4.9
6	☐	500.000	492.214	31512.37	0.0073	P	0.6
7	☐	1000.000	1000.861	63712.99	0.0148	P	1.5
8	☐			62.50	0.0000	P	16.8

$$y = 1.4751\text{E-}005 * x + 1.9648\text{E-}006$$

$$R = 0.9999$$

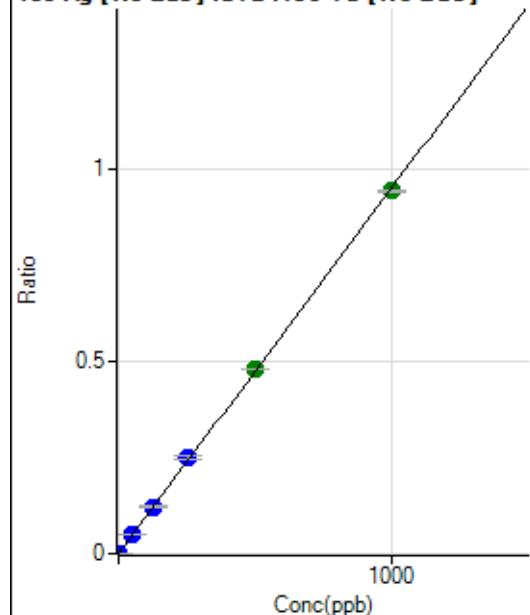
$$DL = 0.2016$$

$$BEC = 0.1332$$

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	13.89	0.0000	P	35.7
2	☐	1.000	0.914	3656.15	0.0009	P	2.7
3	☐	50.000	52.383	211167.37	0.0498	P	2.2
4	☐	125.000	128.295	522462.29	0.1218	P	4.4
5	☐	250.000	262.605	1077877.49	0.2494	P	3.3
6	☐	500.000	506.671	2087925.20	0.4812	A	0.3
7	☐	1000.000	992.982	4069793.36	0.9431	A	0.3
8	☐			2316.93	0.0005	P	7.3

$$y = 9.4973\text{E-}004 * x + 3.2861\text{E-}006$$

$$R = 0.9999$$

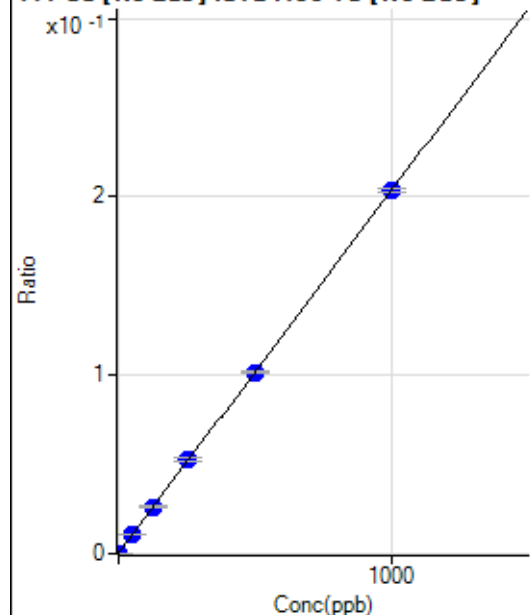
$$DL = 0.00371$$

$$BEC = 0.00346$$

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	1459.32	0.0003	P	4.4
2	☐	1.000	0.840	2160.18	0.0005	P	3.4
3	☐	50.000	51.359	45782.14	0.0108	P	1.5
4	☐	125.000	127.522	112640.94	0.0263	P	4.3
5	☐	250.000	258.897	228976.38	0.0530	P	3.3
6	☐	500.000	497.813	440628.68	0.1016	P	0.7
7	☐	1000.000	998.487	877422.22	0.2033	P	1.2
8	☐			1882.54	0.0004	P	6.8

$$y = 2.0330\text{E-}004 * x + 3.4408\text{E-}004$$

$$R = 1.0000$$

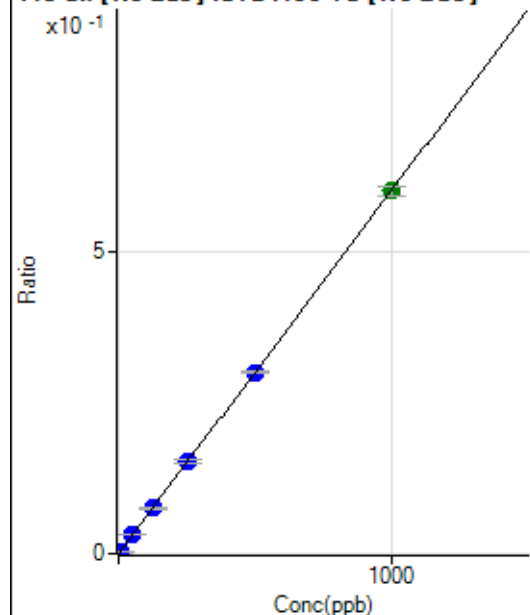
$$DL = 0.2239$$

$$BEC = 1.692$$

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	205.56	0.0000	P	33.6
2	☐	5.000	4.600	11769.27	0.0028	P	0.8
3	☐	50.000	51.277	130690.28	0.0308	P	1.0
4	☐	125.000	125.098	321770.73	0.0750	P	3.9
5	☐	250.000	255.564	662192.07	0.1532	P	4.1
6	☐	500.000	498.563	1296937.64	0.2989	P	0.9
7	☐	1000.000	999.254	2584517.83	0.5990	A	2.5
8	☐			838.94	0.0002	P	14.2

$$y = 5.9942\text{E-}004 * x + 4.8390\text{E-}005$$

$$R = 1.0000$$

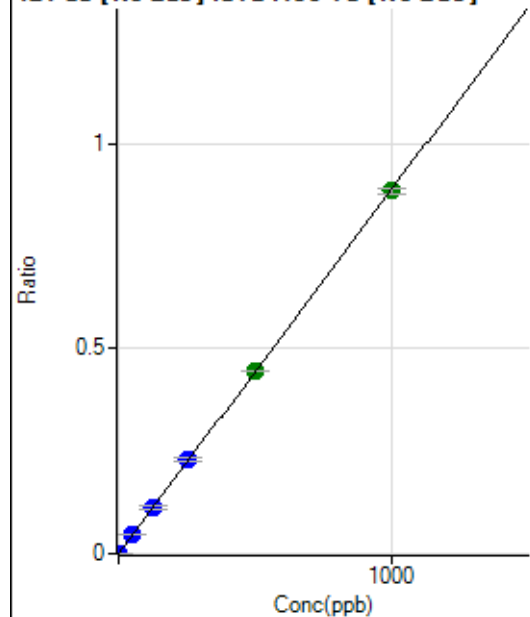
$$DL = 0.08134$$

$$BEC = 0.08073$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	38.89	0.0000	P	54.7
2	☐	2.000	1.919	7177.09	0.0017	P	3.4
3	☐	50.000	51.625	194282.06	0.0458	P	4.0
4	☐	125.000	126.926	482636.63	0.1126	P	4.6
5	☐	250.000	258.677	991366.56	0.2294	P	3.7
6	☐	500.000	501.954	1931398.31	0.4451	A	0.8
7	☐	1000.000	996.532	3813353.34	0.8837	A	1.3
8	☐			2597.54	0.0006	P	8.5

$$y = 8.8679\text{E-}004 * x + 9.2149\text{E-}006$$

$$R = 1.0000$$

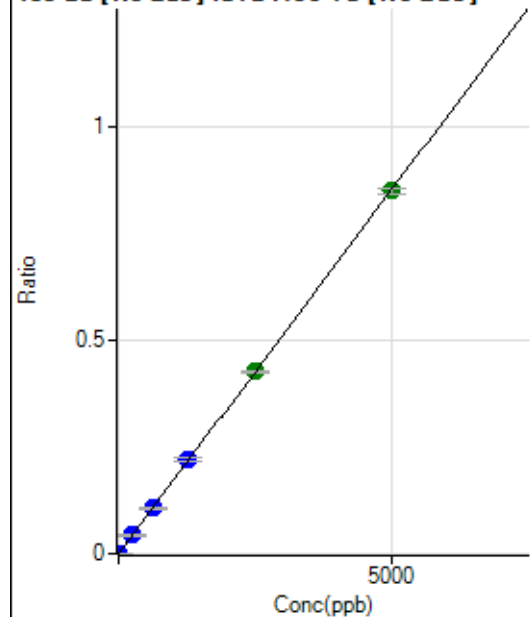
$$DL = 0.01705$$

$$BEC = 0.01039$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	8.33	0.0000	P	173.2
2	☐	10.000	9.166	6554.51	0.0016	P	2.7
3	☐	250.000	253.558	183252.12	0.0432	P	2.1
4	☐	625.000	631.042	460788.71	0.1074	P	3.9
5	☐	1250.000	1289.848	949252.29	0.2196	P	3.4
6	☐	2500.000	2504.334	1850265.88	0.4264	A	1.1
7	☐	5000.000	4986.940	3663676.38	0.8491	A	1.9
8	☐			6885.29	0.0015	P	6.1

$$y = 1.7027\text{E-}004 * x + 1.9815\text{E-}006$$

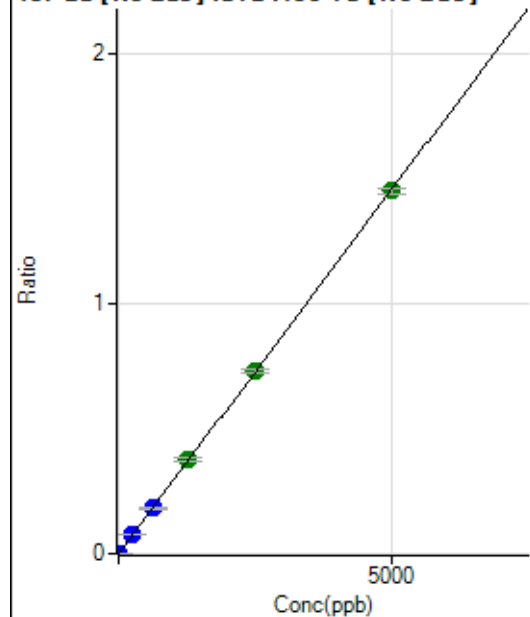
$$R = 1.0000$$

$$DL = 0.06047$$

$$BEC = 0.01164$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	8.33	0.0000	P	100.9
2	☐	10.000	9.540	11652.62	0.0028	P	1.0
3	☐	250.000	257.411	317938.17	0.0749	P	2.2
4	☐	625.000	630.991	787310.31	0.1836	P	4.5
5	☐	1250.000	1288.920	1620876.98	0.3751	A	3.8
6	☐	2500.000	2506.418	3164957.54	0.7294	A	1.9
7	☐	5000.000	4985.943	6260555.78	1.4509	A	1.5
8	☐			11546.84	0.0026	P	1.2

$$y = 2.9101E-004 * x + 1.9649E-006$$

$$R = 1.0000$$

$$DL = 0.02044$$

$$BEC = 0.006752$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.89		P	86.6
2	☐			11.11		P	69.3
3	☐			13.33		P	50.0
4	☐			44.45		P	52.7
5	☐			33.33		P	40.0
6	☐			62.22		P	40.6
7	☐			162.23		P	20.7
8	☐			8.89		P	173.2

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.2
2	☐			1.11		P	173.2
3	☐			0.00		P	
4	☐			3.33		P	100.1
5	☐			3.33		P	100.1
6	☐			7.78		P	65.5
7	☐			22.22		P	48.2
8	☐			4.44		P	173.2

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			25.00		P	120.2
2	☐			8.33		P	0.0
3	☐			19.44		P	99.0
4	☐			19.44		P	65.5
5	☐			36.11		P	58.1
6	☐			44.44		P	21.7
7	☐			75.00		P	19.2
8	☐			241.67		P	12.4

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.44		P	114.6
2	☐			1.11		P	173.2
3	☐			5.56		P	34.7
4	☐			11.11		P	45.8
5	☐			16.67		P	NaN
6	☐			21.11		P	39.7
7	☐			42.22		P	59.3
8	☐			145.56		P	11.3

160 Gd [No Gas] Noavailable calibration poin_

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			33.33		P	25.0
2	☐			30.56		P	31.5
3	☐			41.67		P	52.9
4	☐			44.44		P	21.7
5	☐			77.78		P	32.7
6	☐			47.22		P	10.2
7	☐			97.22		P	26.2
8	☐			263.90		P	25.7

160 Gd [He] No available calibration points

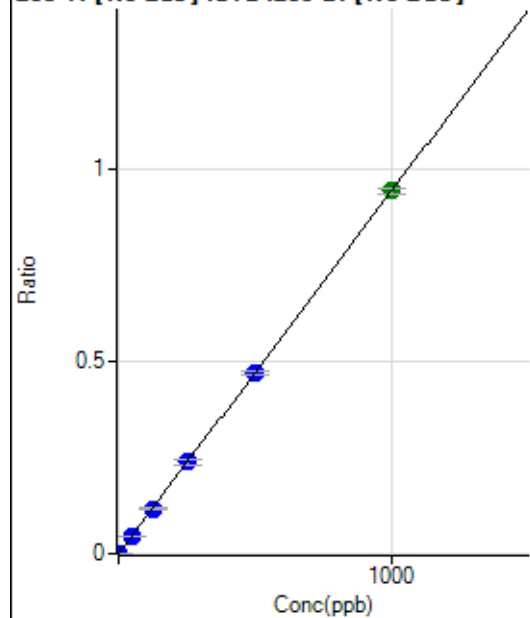
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			23.34		P	24.7
2	☐			33.33		P	26.4
3	☐			16.67		P	20.0
4	☐			15.56		P	12.4
5	☐			25.55		P	15.1
6	☐			52.22		P	9.7
7	☐			61.11		P	33.3
8	☐			186.67		P	12.9

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			11.11		P	86.6
2	☐			22.22		P	21.6
3	☐			25.00		P	33.3
4	☐			33.33		P	50.0
5	☐			38.89		P	44.6
6	☐			47.22		P	44.4
7	☐			30.55		P	68.6
8	☐			36.11		P	70.5

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			7.78		P	24.7
2	☐			11.11		P	17.3
3	☐			10.00		P	88.2
4	☐			11.11		P	105.4
5	☐			18.89		P	36.7
6	☐			20.00		P	50.0
7	☐			20.00		P	16.7
8	☐			56.67		P	11.8

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	8.33	0.0000	P	99.3
2	☐	1.000	0.924	1905.76	0.0009	P	0.4
3	☐	50.000	49.820	103975.49	0.0470	P	0.7
4	☐	125.000	122.798	261368.54	0.1160	P	4.6
5	☐	250.000	253.648	537235.24	0.2395	P	5.6
6	☐	500.000	497.376	1059665.12	0.4697	P	2.2
7	☐	1000.000	1000.684	2132006.10	0.9450	A	1.4
8	☐			1147.31	0.0005	P	8.6

$$y = 9.4430E-004 * x + 3.7429E-006$$

$$R = 1.0000$$

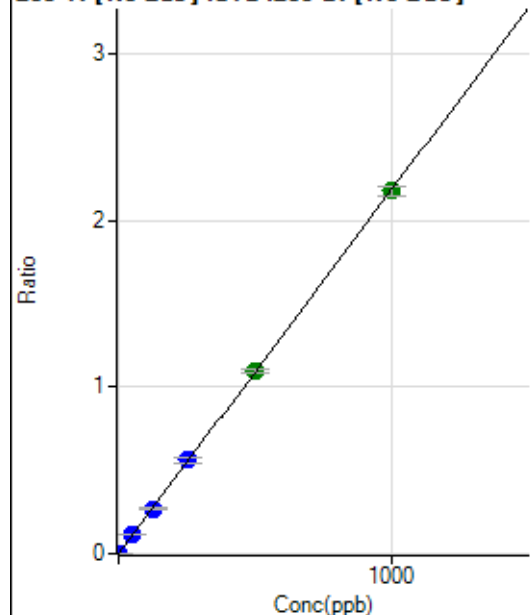
$$DL = 0.01181$$

$$BEC = 0.003964$$

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	69.45	0.0000	P	39.7
2	☐	1.000	0.948	4573.15	0.0021	P	1.5
3	☐	50.000	50.844	245778.36	0.1112	P	2.4
4	☐	125.000	124.037	611520.37	0.2713	P	3.8
5	☐	250.000	256.954	1260273.12	0.5619	P	5.3
6	☐	500.000	502.004	2476670.07	1.0977	A	2.3
7	☐	1000.000	997.338	4920361.13	2.1808	A	2.3
8	☐			2983.76	0.0013	P	7.6

$$y = 0.0022 * x + 3.1568E-005$$

$$R = 1.0000$$

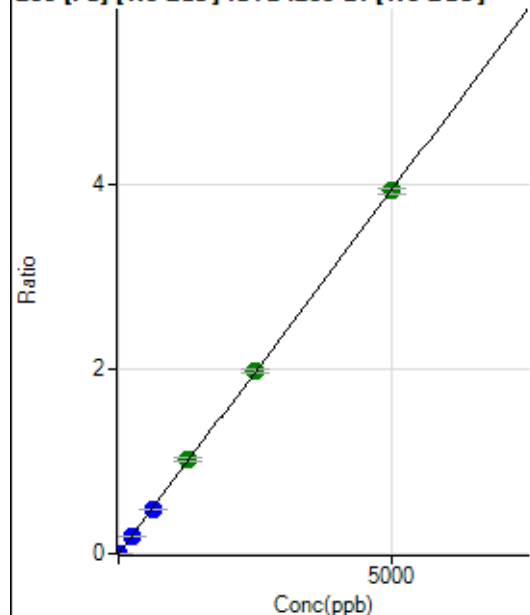
$$DL = 0.0172$$

$$BEC = 0.01444$$

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	400.02	0.0002	P	8.3
2	☐	1.000	0.887	1915.00	0.0009	P	5.3
3	☐	250.000	247.339	431626.00	0.1953	P	0.5
4	☐	625.000	608.416	1082599.17	0.4802	P	3.6
5	☐	1250.000	1284.551	2274214.65	1.0136	A	3.9
6	☐	2500.000	2505.011	4459292.00	1.9765	A	2.0
7	☐	5000.000	4991.063	8884431.97	3.9378	A	1.5
8	☐			3437.55	0.0015	P	1.6

$$y = 7.8894E-004 * x + 1.8139E-004$$

$$R = 1.0000$$

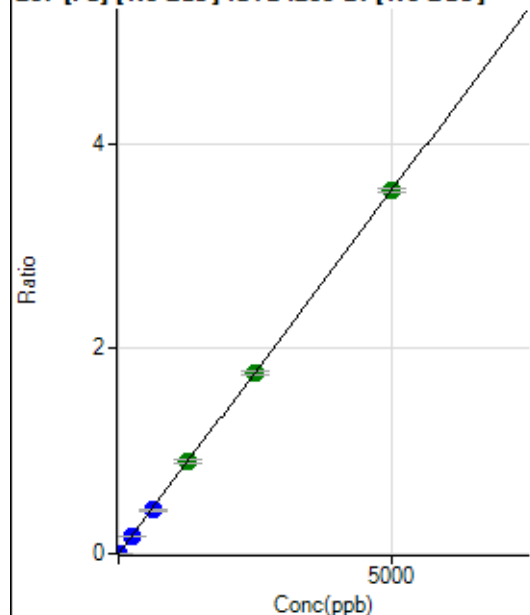
$$DL = 0.05712$$

$$BEC = 0.2299$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	314.82	0.0001	P	11.3
2	☐	1.000	0.786	1520.49	0.0007	P	3.3
3	☐	250.000	247.988	388768.27	0.1759	P	0.6
4	☐	625.000	605.258	967410.69	0.4292	P	4.2
5	☐	1250.000	1282.702	2040140.12	0.9093	A	4.2
6	☐	2500.000	2495.424	3991095.78	1.7689	A	2.1
7	☐	5000.000	4996.681	7990949.72	3.5419	A	1.0
8	☐			2987.44	0.0013	P	1.0

$$y = 7.0882E-004 * x + 1.4253E-004$$

$$R = 1.0000$$

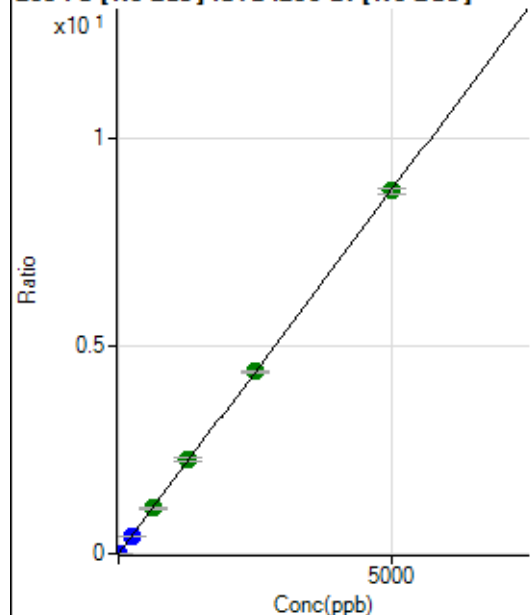
$$DL = 0.06828$$

$$BEC = 0.2011$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	807.45	0.0004	P	3.4
2	☐	1.000	0.910	4258.12	0.0020	P	3.6
3	☐	250.000	249.366	965065.15	0.4367	P	0.4
4	☐	625.000	622.581	2456321.57	1.0897	A	4.4
5	☐	1250.000	1282.722	5037209.24	2.2448	A	4.1
6	☐	2500.000	2508.075	9902814.84	4.3889	A	1.0
7	☐	5000.000	4988.116	19692904.66	8.7284	A	1.8
8	☐			7894.97	0.0035	P	3.1

$$y = 0.0017 * x + 3.6605E-004$$

$$R = 1.0000$$

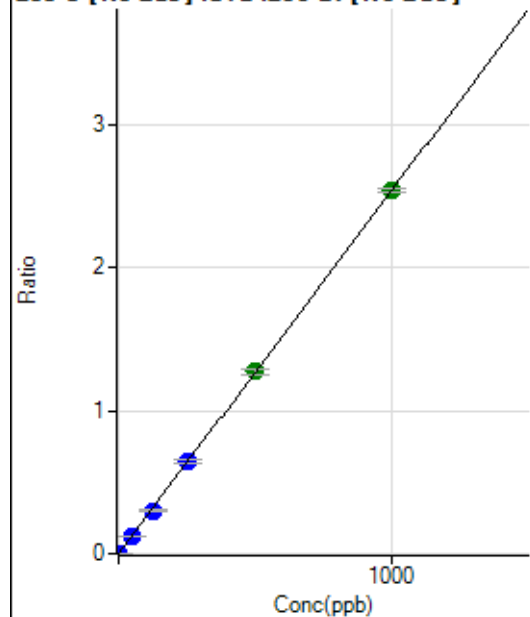
$$DL = 0.02116$$

$$BEC = 0.2092$$

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	5.56	0.0000	P	173.2
2	☐	1.000	0.914	5040.01	0.0023	P	4.6
3	☐	50.000	49.314	276132.08	0.1250	P	0.6
4	☐	125.000	118.938	679328.64	0.3014	P	4.3
5	☐	250.000	251.979	1432397.95	0.6385	P	4.1
6	☐	500.000	500.978	2863862.65	1.2694	A	2.4
7	☐	1000.000	999.809	5715501.52	2.5333	A	1.2
8	☐			691.71	0.0003	P	11.2

$$y = 0.0025 * x + 2.5308E-006$$

$$R = 1.0000$$

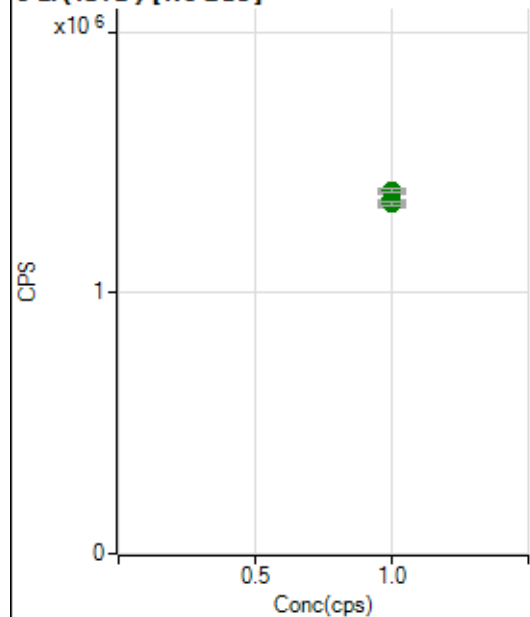
$$DL = 0.00519$$

$$BEC = 0.0009988$$

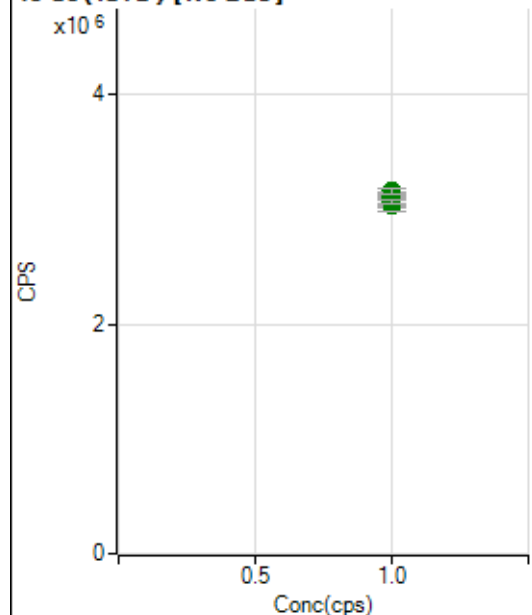
Weight: <None>

Min Conc: 0

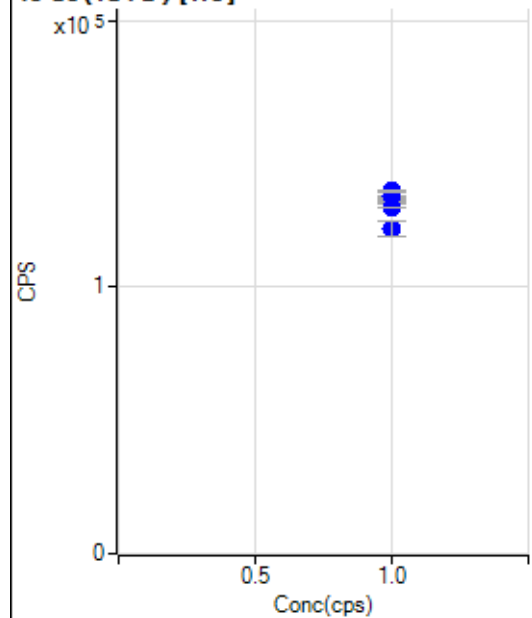
6 Li (ISTD) [No Gas]



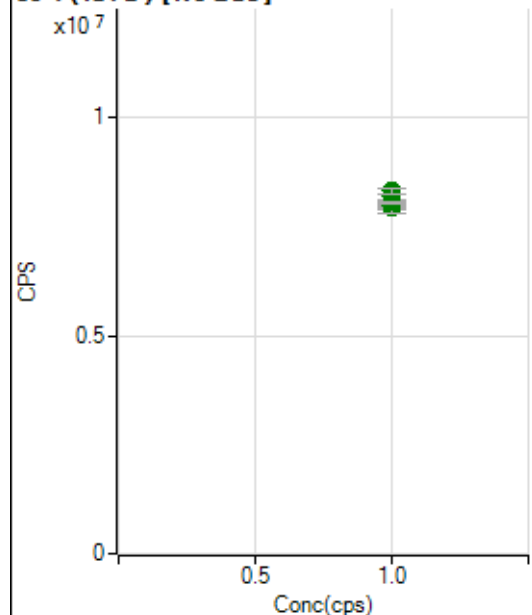
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1341584.67		A	0.5
2	☐	1.000		1342028.55		A	1.9
3	☐	1.000		1346749.61		A	1.9
4	☐	1.000		1356561.12		A	4.8
5	☐	1.000		1357677.29		A	3.2
6	☐	1.000		1361370.63		A	1.9
7	☐	1.000		1342000.47		A	1.5
8	☐	1.000		1389946.78		A	0.9

45 Sc (ISTD) [No Gas]

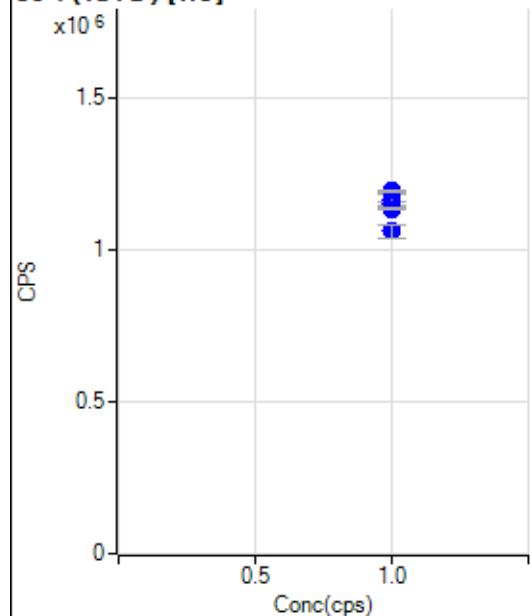
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3061852.59		A	1.2
2	☐	1.000		3025978.32		A	0.6
3	☐	1.000		3065220.37		A	1.5
4	☐	1.000		3103195.41		A	4.5
5	☐	1.000		3051998.36		A	4.2
6	☐	1.000		3121623.18		A	2.2
7	☐	1.000		3064939.30		A	1.3
8	☐	1.000		3158575.58		A	1.3

45 Sc (ISTD) [He]

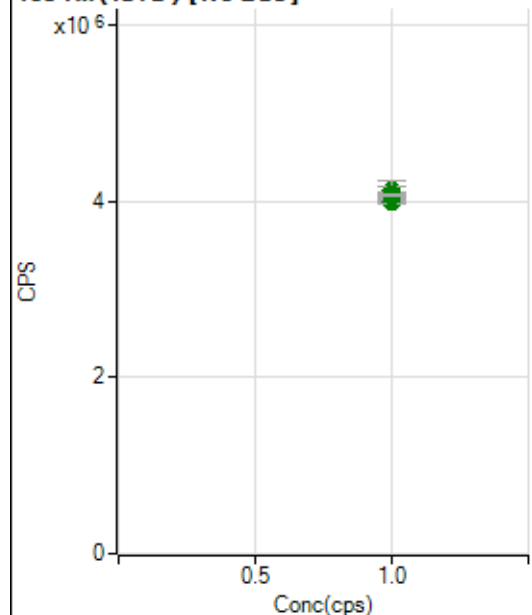
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		132873.87		P	1.0
2	☐	1.000		131985.74		P	0.9
3	☐	1.000		133788.07		P	0.3
4	☐	1.000		132372.69		P	0.4
5	☐	1.000		121845.87		P	4.5
6	☐	1.000		133790.26		P	3.8
7	☐	1.000		129691.01		P	0.1
8	☐	1.000		136016.56		P	0.7

89 Y (ISTD) [No Gas]

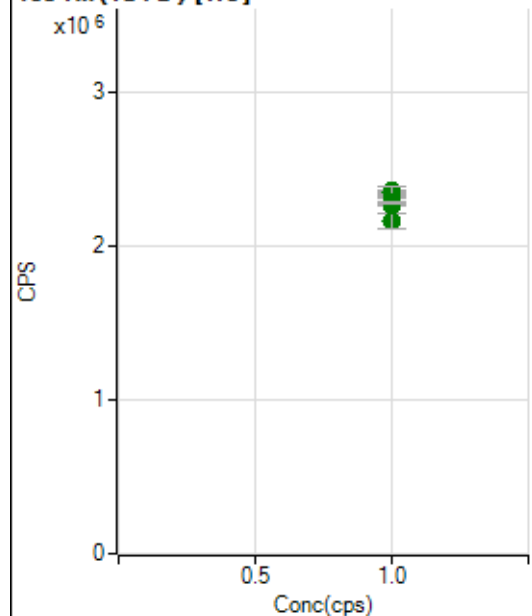
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8063022.03		A	1.3
2	☐	1.000		7937075.92		A	1.3
3	☐	1.000		7921770.92		A	0.6
4	☐	1.000		8201088.07		A	4.6
5	☐	1.000		7966218.63		A	3.8
6	☐	1.000		8068397.24		A	0.7
7	☐	1.000		8048613.77		A	0.9
8	☐	1.000		8319990.29		A	1.3

89 Y (ISTD) [He]

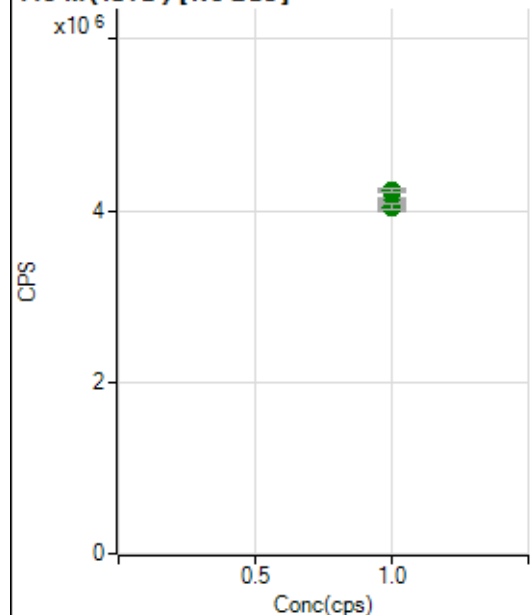
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1144490.95		P	0.7
2	☐	1.000		1144378.53		P	0.6
3	☐	1.000		1156200.97		P	0.9
4	☐	1.000		1155363.40		P	0.9
5	☐	1.000		1062871.76		P	4.3
6	☐	1.000		1164315.67		P	3.3
7	☐	1.000		1137012.85		P	0.7
8	☐	1.000		1196267.20		P	0.7

103 Rh (ISTD) [No Gas]

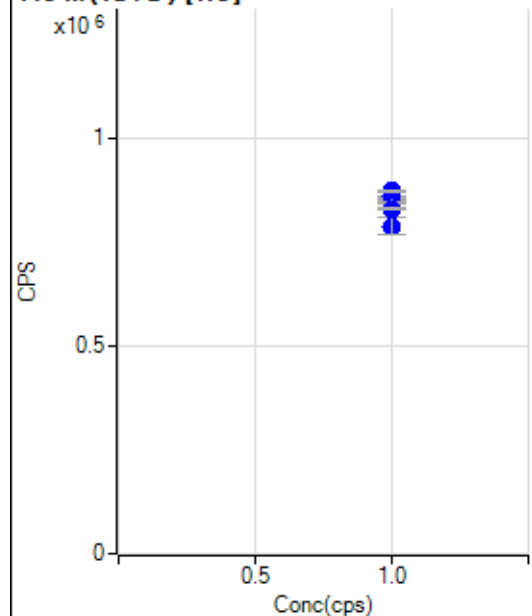
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4066148.01		A	1.3
2	☐	1.000		4074963.07		A	1.1
3	☐	1.000		4078338.85		A	0.6
4	☐	1.000		4119071.49		A	5.5
5	☐	1.000		4082966.02		A	4.3
6	☐	1.000		4082554.52		A	1.0
7	☐	1.000		3996183.99		A	0.8
8	☐	1.000		4063294.97		A	0.6

103 Rh (ISTD) [He]

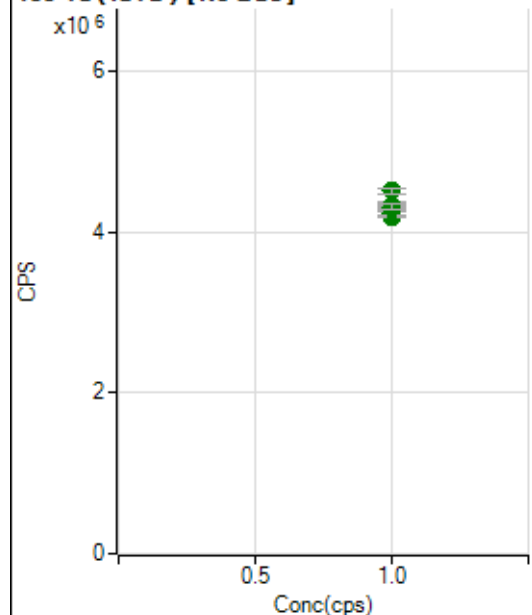
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2327800.05		A	1.0
2	☐	1.000		2330808.44		A	0.4
3	☐	1.000		2357436.11		A	0.8
4	☐	1.000		2330540.35		A	0.3
5	☐	1.000		2158559.73		A	4.4
6	☐	1.000		2351321.09		A	2.9
7	☐	1.000		2265750.14		A	0.7
8	☐	1.000		2281557.59		A	0.3

115 In (ISTD) [No Gas]

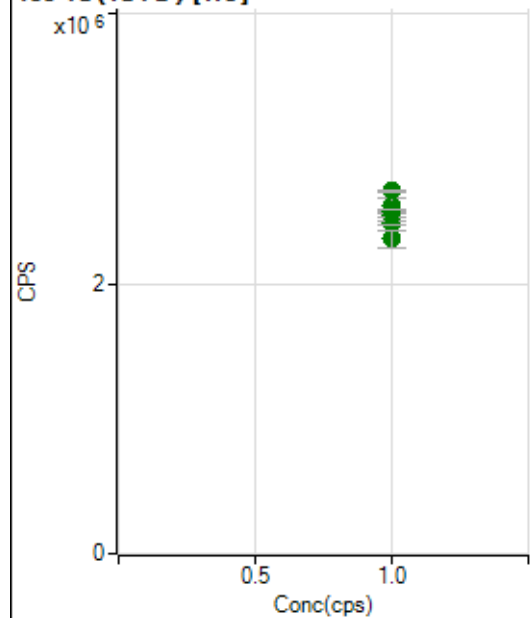
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4100609.19		A	1.1
2	☐	1.000		4072511.15		A	1.3
3	☐	1.000		4114744.19		A	1.1
4	☐	1.000		4139068.97		A	4.4
5	☐	1.000		4070137.51		A	3.4
6	☐	1.000		4083114.42		A	1.1
7	☐	1.000		4044108.08		A	1.7
8	☐	1.000		4230610.41		A	1.0

115 In (ISTD) [He]

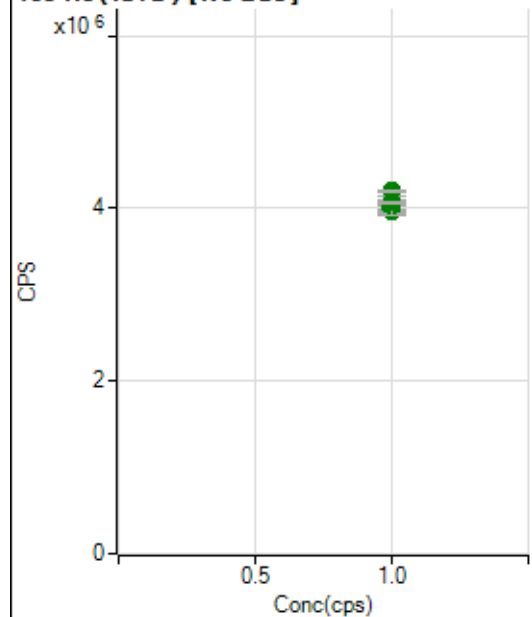
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		848399.85		P	0.6
2	☐	1.000		847006.66		P	0.6
3	☐	1.000		860504.26		P	0.5
4	☐	1.000		860902.03		P	0.5
5	☐	1.000		789923.48		P	5.0
6	☐	1.000		861469.85		P	3.3
7	☐	1.000		830971.74		P	0.5
8	☐	1.000		874687.03		P	0.3

159 Tb (ISTD) [No Gas]

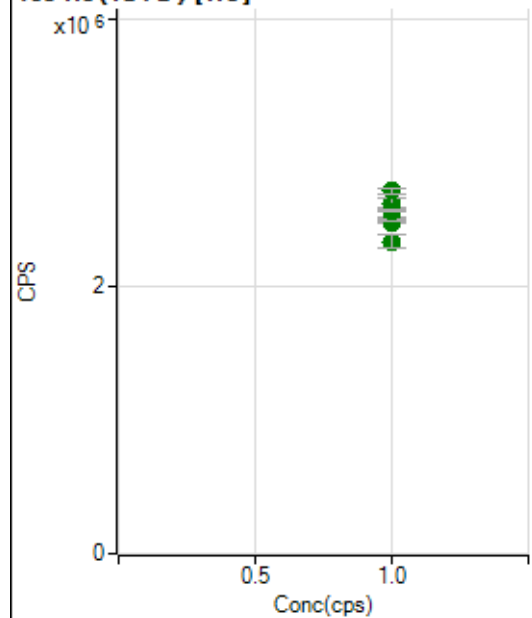
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4242066.57		A	1.5
2	☐	1.000		4194649.66		A	0.9
3	☐	1.000		4245955.11		A	2.7
4	☐	1.000		4293029.83		A	4.2
5	☐	1.000		4324532.96		A	3.0
6	☐	1.000		4338977.54		A	0.5
7	☐	1.000		4315682.13		A	2.0
8	☐	1.000		4514914.86		A	1.7

159 Tb (ISTD) [He]

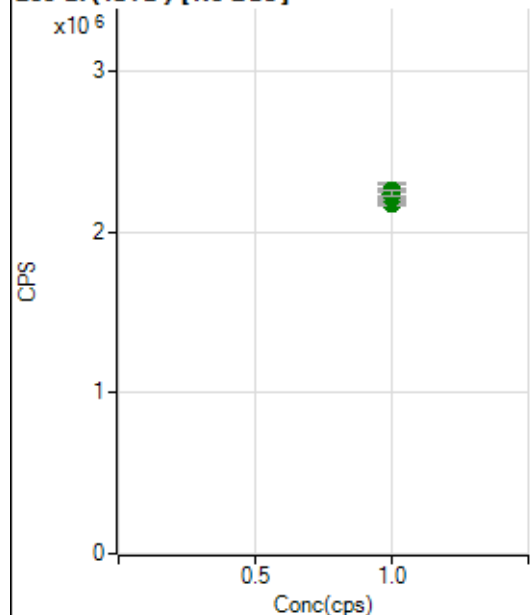
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2491912.34		A	0.5
2	☐	1.000		2446176.68		A	1.1
3	☐	1.000		2509044.48		A	1.9
4	☐	1.000		2531319.22		A	1.3
5	☐	1.000		2331443.06		A	5.3
6	☐	1.000		2578009.44		A	4.3
7	☐	1.000		2545467.36		A	0.1
8	☐	1.000		2686931.42		A	0.5

165 Ho (ISTD) [No Gas]

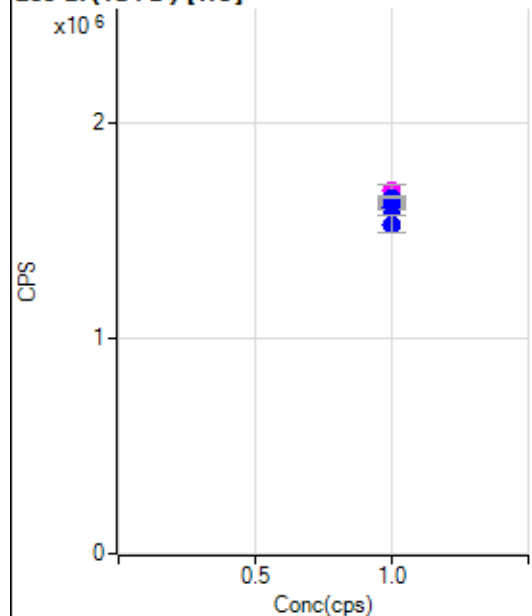
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3997922.09		A	2.1
2	☐	1.000		3976014.33		A	0.7
3	☐	1.000		3998857.29		A	1.7
4	☐	1.000		4017506.82		A	3.2
5	☐	1.000		4041184.99		A	5.6
6	☐	1.000		4073573.18		A	0.8
7	☐	1.000		4071891.15		A	0.8
8	☐	1.000		4204020.41		A	0.6

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2477286.91		A	0.2
2	☐	1.000		2489740.17		A	0.5
3	☐	1.000		2492381.96		A	1.4
4	☐	1.000		2492059.54		A	1.1
5	☐	1.000		2328520.94		A	4.3
6	☐	1.000		2616666.77		A	2.8
7	☐	1.000		2562071.85		A	0.6
8	☐	1.000		2709969.51		A	1.4

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2206563.42		A	1.4
2	☐	1.000		2173674.64		A	0.4
3	☐	1.000		2209877.59		A	0.5
4	☐	1.000		2256789.56		A	4.2
5	☐	1.000		2245981.93		A	4.2
6	☐	1.000		2256457.80		A	0.9
7	☐	1.000		2256146.13		A	0.4
8	☐	1.000		2239987.45		A	1.5

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1603952.41		P	0.2
2	☐	1.000		1608505.91		P	1.0
3	☐	1.000		1629659.39		P	0.6
4	☐	1.000		1639971.90		P	0.6
5	☐	1.000		1530750.48		P	5.0
6	☐	1.000		1685880.39		M	3.1
7	☐	1.000		1640347.37		P	0.1
8	☐	1.000		1656680.36		P	0.7

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8080920N.b
Acq. Date-Time 2020-08-09 16:35:08
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		2905	29054.20			0.779	5.000
24		20789	207892.52			0.945	5.000
25		2779	27791.01			0.674	5.000
26		3279	32794.47			0.545	5.000
59		17200	171998.58			0.246	5.000
113		2558	25580.90			0.523	5.000
115		8073	80728.29			0.911	5.000
206		2559	25590.08			0.260	5.000
207		2154	21541.85			1.020	5.000
208		5287	52866.50			0.964	5.000
220		1	9.10			31.897	

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

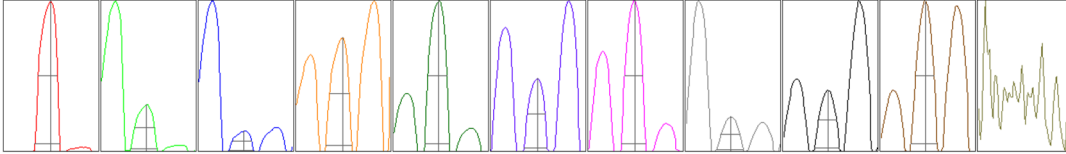
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	2939	2910	2909	2883	2885
24	20785	21107	20646	20800	20608
25	2774	2809	2771	2759	2782
26	3289	3295	3284	3280	3249
59	17154	17200	17229	17253	17163
113	2556	2573	2537	2560	2564
115	8076	8169	8104	7969	8047
206	2560	2568	2559	2549	2558
207	2146	2153	2182	2166	2124
208	5278	5289	5346	5311	5208

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	1	1

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	5057.45	9.00	8.90 - 9.10	
24	35479.75	23.95	23.90 - 24.10	
25	4643.09	24.95	24.90 - 25.10	
26	5540.64	26.00	25.90 - 26.10	
59	29690.03	58.95	58.90 - 59.10	
113	4804.47	113.00	112.90 - 113.10	
115	14910.86	115.00	114.90 - 115.10	
206	4565.46	205.95	205.90 - 206.10	
207	3833.71	206.95	206.90 - 207.10	
208	9445.75	207.95	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.61	0.779	0.900	
24	0.63	0.831	0.900	
25	0.63	0.774	0.900	
26	0.63	0.828	0.900	
59	0.61	0.783	0.900	
113	0.56	0.733	0.900	
115	0.56	0.773	0.900	
206	0.58	0.839	0.900	
207	0.58	0.787	0.900	
208	0.59	0.825	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 0.50 L/min Dilution Gas 0.45 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	10.1 V	Deflect	14.2 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	160 V		

QP Parameters

Mass Gain	123	Axis Gain	0.9994	QP Bias	-4.0 V
Mass Offset	124	Axis Offset	-0.03		

Hardware Settings

Torch

Torch H	0.2 mm	Torch V	-0.2 mm
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EM

Discriminator	3.9 mV	Analog HV	2184 V	Pulse HV	1276 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		4462	44619.55			1.137	
89		8962	89620.00			1.096	
205		8001	80005.83			2.494	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	4432	4492	4388	4509	4488
89	8956	9015	8794	9031	9014
205	8064	8033	7660	8188	8058

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	HMI	Nebulizer Gas	0.50 L/min	Dilution Gas	0.45 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	10.1 V	Deflect	4.2 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	124	Axis Offset	-0.03		
Hardware Settings					
Torch					
Torch H	0.2 mm	Torch V	-0.2 mm		
EM					
Discriminator	3.9 mV	Analog HV	2184 V	Pulse HV	1276 V