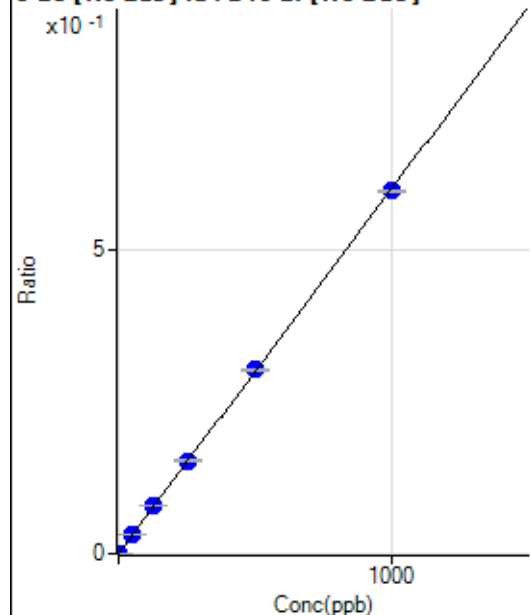


Calibration for 002CALB.d

Batch Folder: D:\ICP-MS Data\P7053018-MS.b\
 Analysis File: P7053018-MS.batch.bin
 DA Date-Time: 2018-05-30 18:47:08
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2018-05-30 12:05:01
2			
3	005CALS.d	S02	2018-05-30 12:13:14
4	006CALS.d	S03	2018-05-30 12:17:07
5	007CALS.d	S04	2018-05-30 12:21:00
6	008CALS.d	S05	2018-05-30 12:24:52
7	009CALS.d	S06	2018-05-30 12:28:39
8	010CALS.d	S07	2018-05-30 12:32:23
9	011CALS.d	S08	2018-05-30 12:36:07

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	81.48	0.0000	P	37.6
2	☐	0.100					
3	☐	1.000	1.018	1559.38	0.0006	P	1.3
4	☐	50.000	53.640	78768.75	0.0322	P	0.7
5	☐	125.000	130.872	186669.86	0.0786	P	0.7
6	☐	250.000	255.551	338518.03	0.1535	P	0.5
7	☐	500.000	505.589	631324.94	0.3036	P	0.9
8	☐	1000.000	994.902	1244739.39	0.5974	P	0.6
9	☐			501.87	0.0002	P	14.0

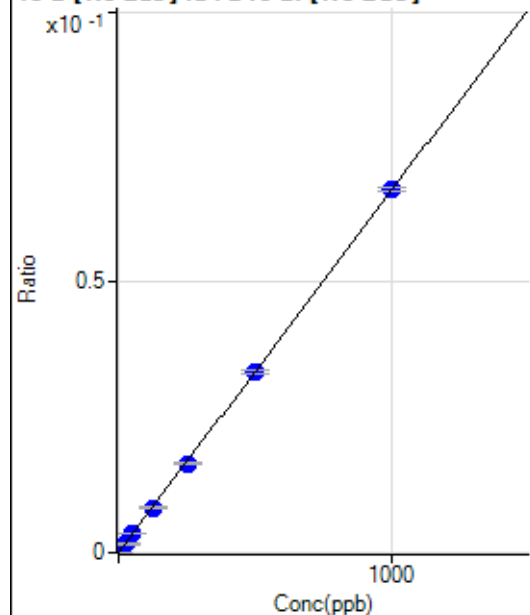
$$y = 6.0043\text{E-}004 * x + 3.4118\text{E-}005$$

$$R = 1.0000$$

$$DL = 0.06402$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	94.45	0.0000	P	25.6
2	☐	2.500					
3	☐	25.000	23.564	3903.45	0.0016	P	4.1
4	☐	50.000	51.173	8458.25	0.0035	P	3.1
5	☐	125.000	124.242	19824.74	0.0083	P	1.6
6	☐	250.000	245.563	36308.19	0.0165	P	2.2
7	☐	500.000	498.990	69476.57	0.0334	P	2.2
8	☐	1000.000	1001.686	139672.59	0.0670	P	1.1
9	☐			6215.44	0.0029	P	10.5

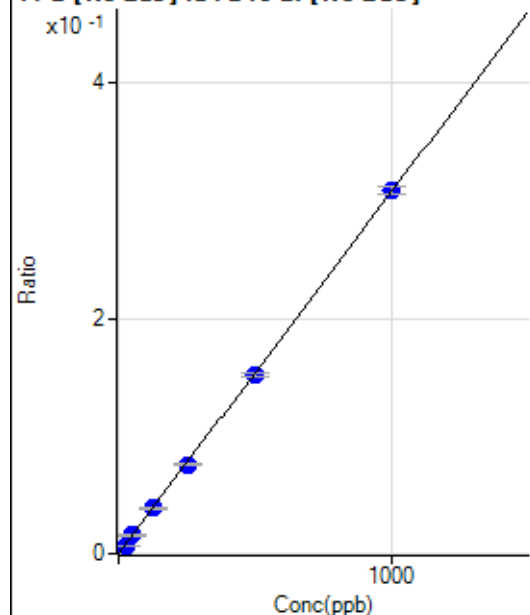
$$y = 6.6882\text{E-}005 * x + 3.9555\text{E-}005$$

$$R = 1.0000$$

$$DL = 0.4537$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	447.25	0.0002	P	10.8
2	☐	2.500					
3	☐	25.000	23.020	17524.59	0.0073	P	0.8
4	☐	50.000	50.503	38330.05	0.0157	P	3.1
5	☐	125.000	124.437	91135.11	0.0384	P	1.9
6	☐	250.000	245.877	166852.36	0.0757	P	1.8
7	☐	500.000	496.125	317026.44	0.1525	P	2.3
8	☐	1000.000	1003.063	641893.91	0.3081	P	2.1
9	☐			28455.34	0.0131	P	10.4

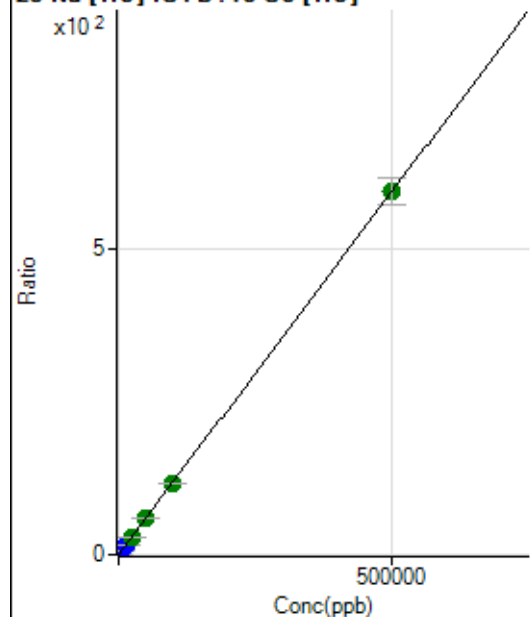
$$y = 3.0694\text{E-}004 * x + 1.8727\text{E-}004$$

$$R = 1.0000$$

$$DL = 0.197$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	12814.26	0.0420	P	3.0
2	☐	50.000					
3	☐	500.000	441.260	172076.90	0.5646	P	0.6
4	☐	5000.000	4768.698	1733667.31	5.6899	P	0.2
5	☐	12500.000	12465.076	4254181.87	14.8053	P	0.6
6	☐	25000.000	24971.162	8015360.07	29.6172	A	0.2
7	☐	50000.000	51016.589	15632698.27	60.4646	A	1.8
8	☐	100000.00	98377.439	31442416.33	116.5575	A	0.9
9	☐	500000.00	500227.54	159956088.3	592.4975	A	7.6

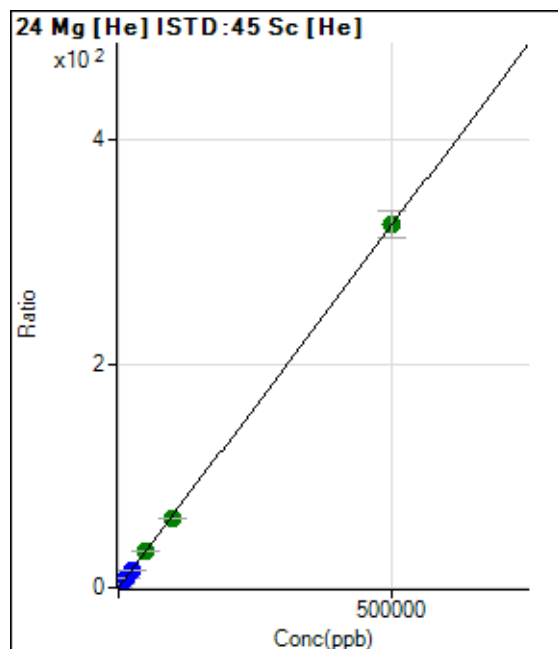
$$y = 0.0012 * x + 0.0420$$

$$R = 1.0000$$

$$DL = 3.152$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1211.22	0.0040	P	8.8
2	☐	50.000					
3	☐	500.000	435.010	87016.57	0.2855	P	2.5
4	☐	5000.000	4670.956	922329.27	3.0271	P	0.3
5	☐	12500.000	12049.317	2241999.29	7.8025	P	0.5
6	☐	25000.000	24639.815	4316932.56	15.9514	P	0.2
7	☐	50000.000	50154.177	8393375.88	32.4648	A	2.0
8	☐	100000.00	96178.022	16793076.24	62.2523	A	1.0
9	☐	500000.00	500781.61	87503272.79	324.1199	A	7.6

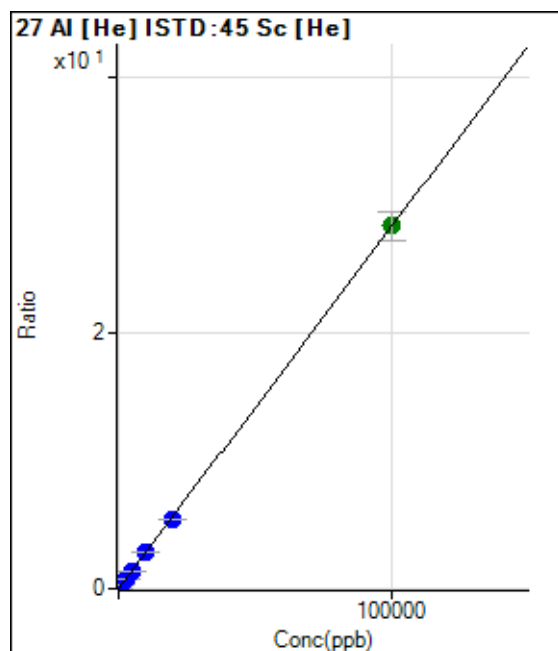
$$y = 6.4722\text{E-}004 * x + 0.0040$$

$$R = 1.0000$$

$$DL = 1.624$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	125.00	0.0004	P	23.2
2	☐	2.000					
3	☐	20.000	18.007	1680.73	0.0055	P	9.1
4	☐	1000.000	959.780	83032.91	0.2725	P	1.2
5	☐	2500.000	2420.432	197292.04	0.6866	P	1.0
6	☐	5000.000	4845.389	371885.21	1.3741	P	0.7
7	☐	10000.000	9920.242	727262.76	2.8129	P	1.8
8	☐	20000.000	19101.634	1461041.90	5.4159	P	0.5
9	☐	100000.00	100197.77	7668948.17	28.4074	A	7.6

$$y = 2.8351\text{E-}004 * x + 4.0939\text{E-}004$$

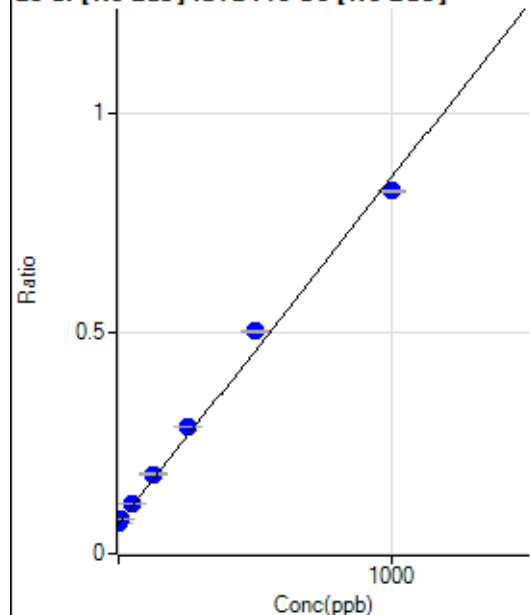
$$R = 1.0000$$

$$DL = 1.004$$

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	412296.76	0.0684	P	0.4
2	☐	1.000					
3	☐	10.000	13.354	489404.62	0.0789	P	2.3
4	☐	50.000	56.314	705748.09	0.1126	P	0.7
5	☐	125.000	142.957	1096958.96	0.1805	P	0.7
6	☐	250.000	280.910	1609550.62	0.2886	P	0.1
7	☐	500.000	555.709	2659791.16	0.5040	P	0.6
8	☐	1000.000	961.824	4433065.38	0.8224	P	0.8
9	☐			524468.90	0.0931	P	0.2

$$y = 7.8389\text{E-}004 * x + 0.0684$$

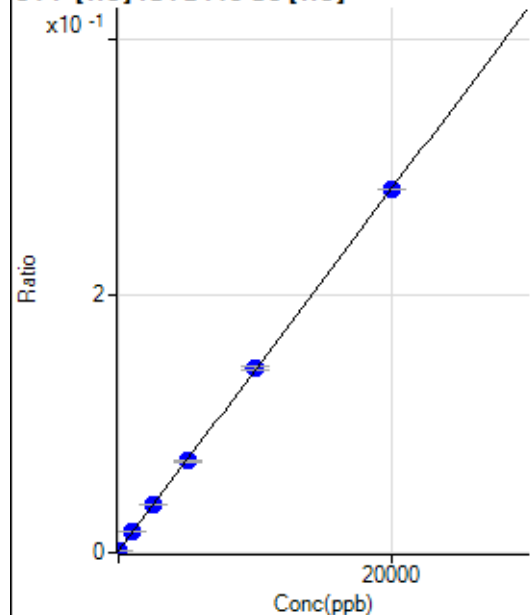
$$R = 0.9970$$

$$DL = 1.142$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	8.059	447.25	0.0015	P	17.5
2	☐	0.000					
3	☐	0.000	-8.059	377.80	0.0012	P	10.8
4	☐	1000.000	1051.133	4926.02	0.0162	P	1.9
5	☐	2500.000	2561.877	10762.58	0.0375	P	2.6
6	☐	5000.000	4980.567	19363.24	0.0715	P	1.7
7	☐	10000.000	10084.218	37094.25	0.1435	P	2.2
8	☐	20000.000	19952.458	76226.02	0.2826	P	0.1
9	☐			400.02	0.0015	P	16.1

$$y = 1.4093\text{E-}005 * x + 0.0014$$

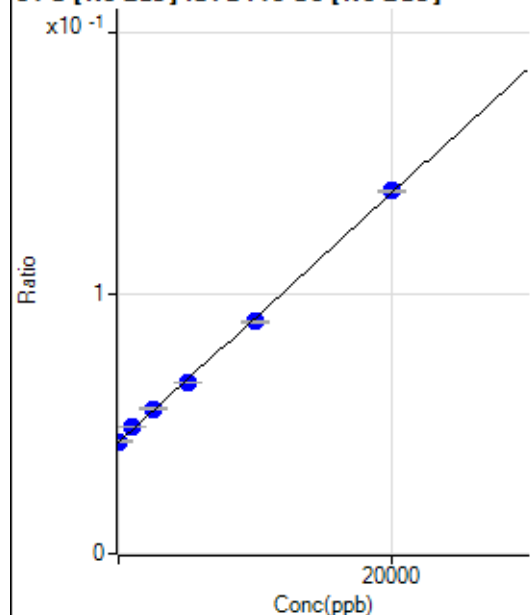
$$R = 1.0000$$

$$DL = 41.44$$

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	-48.382	256411.58	0.0426	P	0.3
2	☐	0.000					
3	☐	0.000	48.382	266852.45	0.0430	P	1.7
4	☐	1000.000	1247.377	305700.38	0.0488	P	1.1
5	☐	2500.000	2686.791	338264.58	0.0557	P	0.7
6	☐	5000.000	4784.333	366410.04	0.0657	P	0.7
7	☐	10000.000	9696.895	470892.87	0.0892	P	0.5
8	☐	20000.000	20169.752	751435.47	0.1394	P	0.9
9	☐			221494.73	0.0393	P	2.6

$$y = 4.7900\text{E-}006 * x + 0.0428$$

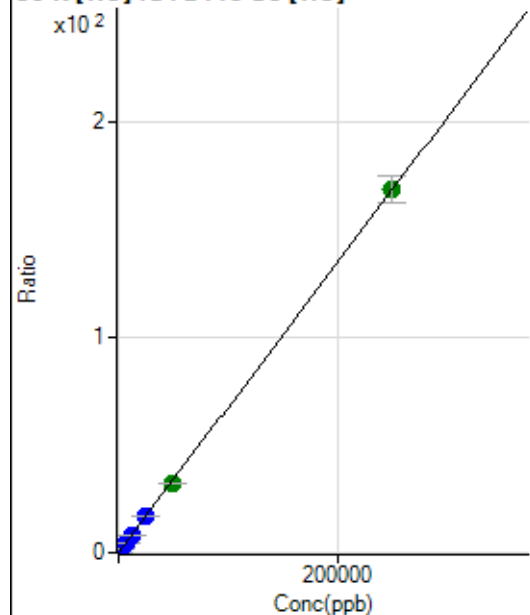
$$R = 0.9996$$

$$DL = 267.4$$

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	29282.54	0.0960	P	2.0
2	☐	50.000					
3	☐	500.000	455.490	122625.65	0.4024	P	1.2
4	☐	2500.000	2422.825	525753.86	1.7255	P	0.9
5	☐	6250.000	6083.755	1203326.75	4.1877	P	0.2
6	☐	12500.000	11962.733	2203384.08	8.1417	P	0.5
7	☐	25000.000	24715.440	4322469.89	16.7187	P	1.9
8	☐	50000.000	47666.064	8674019.38	32.1545	A	0.9
9	☐	250000.00	250527.12	45515890.60	168.5914	A	7.5

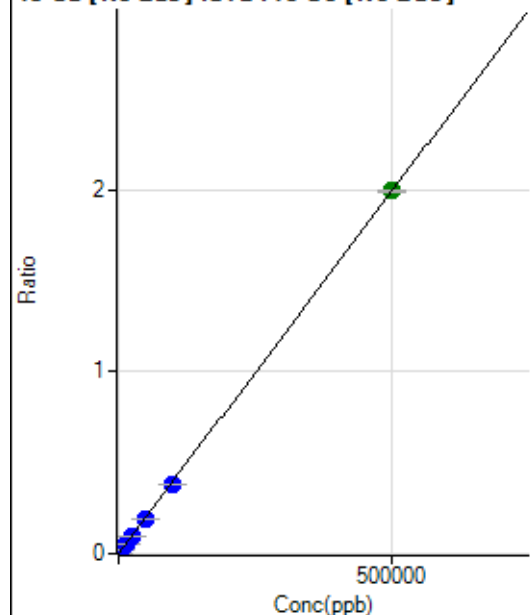
$$y = 6.7256\text{E-}004 * x + 0.0960$$

$$R = 1.0000$$

$$DL = 8.592$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	486.14	0.0001	P	5.9
2	☐	50.000					
3	☐	500.000	447.044	11543.91	0.0019	P	1.3
4	☐	5000.000	4852.251	121647.33	0.0194	P	0.7
5	☐	12500.000	12236.580	296650.62	0.0488	P	0.5
6	☐	25000.000	24168.742	537173.96	0.0963	P	0.9
7	☐	50000.000	48108.042	1011382.97	0.1917	P	0.4
8	☐	100000.00	96356.137	2068871.07	0.3838	P	0.7
9	☐	500000.00	500967.64	11236929.16	1.9951	A	0.5

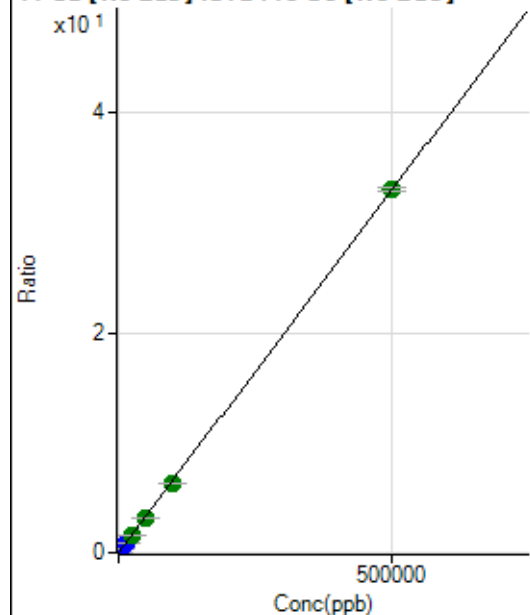
$$y = 3.9823\text{E-}006 * x + 8.0696\text{E-}005$$

$$R = 1.0000$$

$$DL = 3.605$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	11454.88	0.0019	P	4.5
2	☐	50.000					
3	☐	500.000	431.677	188306.90	0.0304	P	0.7
4	☐	5000.000	4780.934	1987580.82	0.3170	P	0.4
5	☐	12500.000	12170.508	4887133.01	0.8041	P	0.4
6	☐	25000.000	24321.254	8950521.47	1.6050	A	0.6
7	☐	50000.000	48274.680	16801336.31	3.1839	A	0.4
8	☐	100000.00	96360.553	34248437.57	6.3535	A	0.6
9	☐	500000.00	500944.85	185982936.1	33.0215	A	1.0

$$y = 6.5915\text{E-}005 * x + 0.0019$$

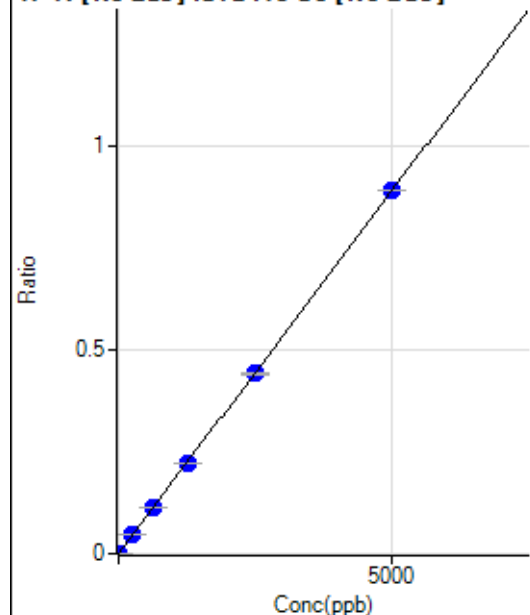
$$R = 1.0000$$

$$DL = 3.872$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	111.12	0.0000	P	72.0
2	☐	0.500					
3	☐	5.000	4.864	5465.18	0.0009	P	4.6
4	☐	250.000	253.486	281943.00	0.0450	P	0.3
5	☐	625.000	630.733	679927.73	0.1119	P	0.2
6	☐	1250.000	1246.645	1232986.78	0.2211	P	0.6
7	☐	2500.000	2485.711	2326292.00	0.4408	P	0.4
8	☐	5000.000	5007.092	4786806.49	0.8880	P	0.2
9	☐			2961.53	0.0005	P	4.7

$$y = 1.7734\text{E-}004 * x + 1.8411\text{E-}005$$

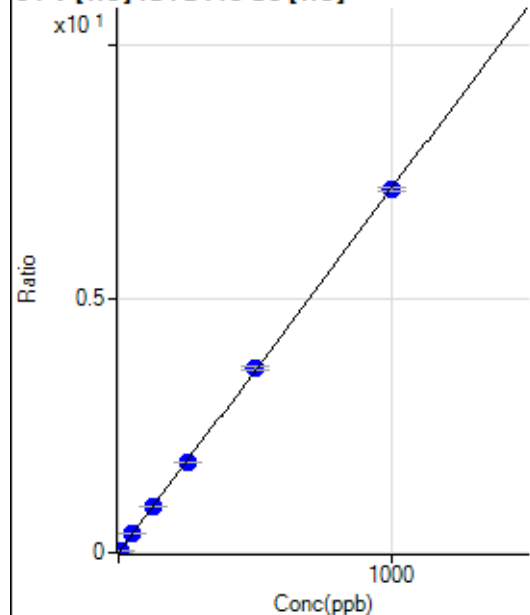
$$R = 1.0000$$

$$DL = 0.2243$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	22.22	0.0001	P	43.6
2	☐	0.500					
3	☐	5.000	4.710	10330.41	0.0339	P	2.0
4	☐	50.000	50.431	110367.76	0.3622	P	0.7
5	☐	125.000	126.512	261071.09	0.9086	P	0.9
6	☐	250.000	247.908	481814.30	1.7803	P	0.7
7	☐	500.000	508.660	944393.25	3.6528	P	2.1
8	☐	1000.000	995.984	1929422.94	7.1524	P	0.9
9	☐			941.16	0.0035	P	7.4

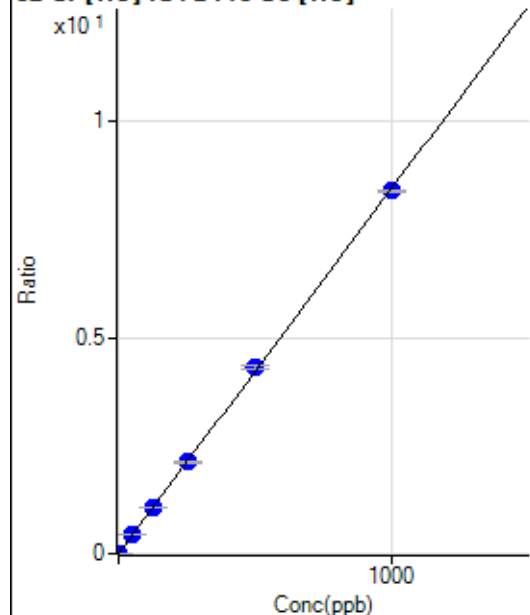
$$y = 0.0072 * x + 7.2935\text{E-}005$$

$$R = 0.9999$$

$$DL = 0.01329$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	295.56	0.0010	P	8.8
2	☐	0.200					
3	☐	2.000	2.011	5464.43	0.0179	P	2.0
4	☐	50.000	51.060	131528.90	0.4317	P	1.0
5	☐	125.000	127.657	309693.09	1.0778	P	1.1
6	☐	250.000	250.316	571698.57	2.1125	P	0.2
7	☐	500.000	511.119	1114877.52	4.3124	P	2.3
8	☐	1000.000	993.976	2262130.78	8.3855	P	0.6
9	☐			107766.80	0.3991	P	7.1

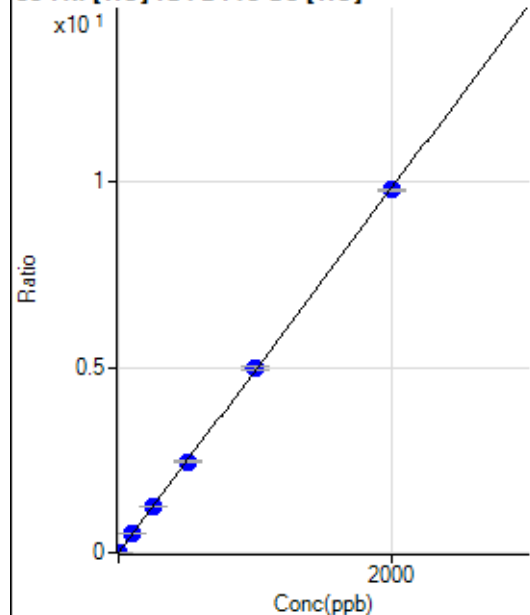
$$y = 0.0084 * x + 9.6942E-004$$

$$R = 0.9999$$

$$DL = 0.03037$$

Weight: <None>

Min Conc: 0

55 Mn [He] ISTD:45 Sc [He]

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	268.89	0.0009	P	5.8
2	☐	0.100					
3	☐	1.000	1.030	1813.48	0.0060	P	1.4
4	☐	100.000	102.417	153891.28	0.5051	P	0.7
5	☐	250.000	256.183	362639.48	1.2621	P	0.7
6	☐	500.000	500.111	666523.87	2.4629	P	0.6
7	☐	1000.000	1017.159	1294828.98	5.0083	P	1.9
8	☐	2000.000	1990.499	2643633.54	9.8000	P	0.8
9	☐			15061.21	0.0558	P	8.8

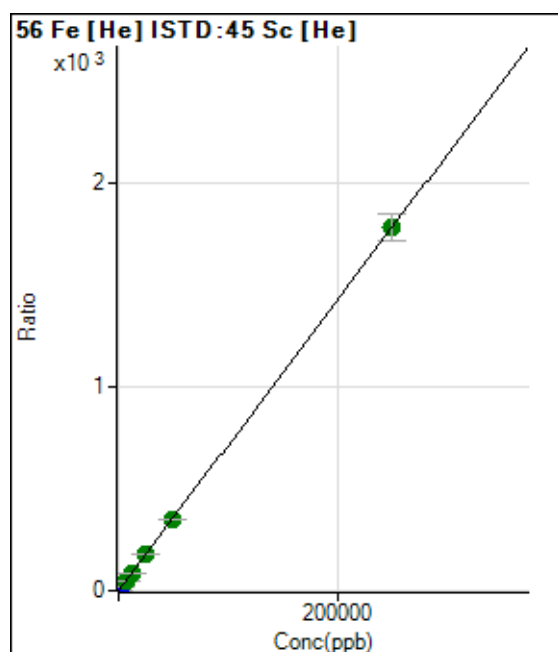
$$y = 0.0049 * x + 8.8197E-004$$

$$R = 0.9999$$

$$DL = 0.03118$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	9297.70	0.0305	P	1.6
2	☐	5.000					
3	☐	50.000	46.016	109135.60	0.3581	P	0.8
4	☐	2500.000	2544.634	5529292.54	18.1472	P	0.2
5	☐	6250.000	6321.126	12940258.39	45.0343	A	0.5
6	☐	12500.000	12389.303	23879225.99	88.2372	A	0.8
7	☐	25000.000	25255.374	46493330.67	179.8383	A	2.3
8	☐	50000.000	49061.388	94234339.14	349.3272	A	0.9
9	☐	250000.00	250165.49	480888144.0	1,781.105	A	7.4

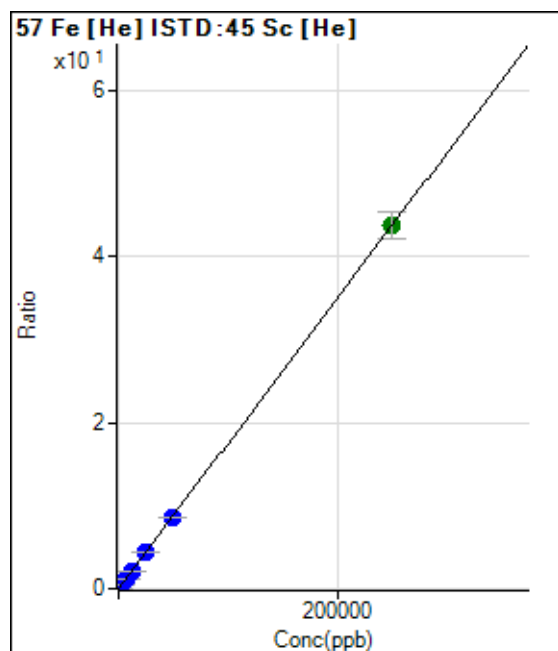
$$y = 0.0071 * x + 0.0305$$

$$R = 1.0000$$

$$DL = 0.2074$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	537.07	0.0018	P	13.9
2	☐	5.000					
3	☐	50.000	50.504	3226.37	0.0106	P	2.6
4	☐	2500.000	2521.932	134835.70	0.4425	P	0.5
5	☐	6250.000	6317.770	317786.93	1.1060	P	0.6
6	☐	12500.000	12334.488	583885.88	2.1575	P	0.7
7	☐	25000.000	25142.878	1136541.86	4.3961	P	2.1
8	☐	50000.000	49089.707	2315033.50	8.5815	P	0.5
9	☐	250000.00	250174.13	11806284.18	43.7262	A	7.3

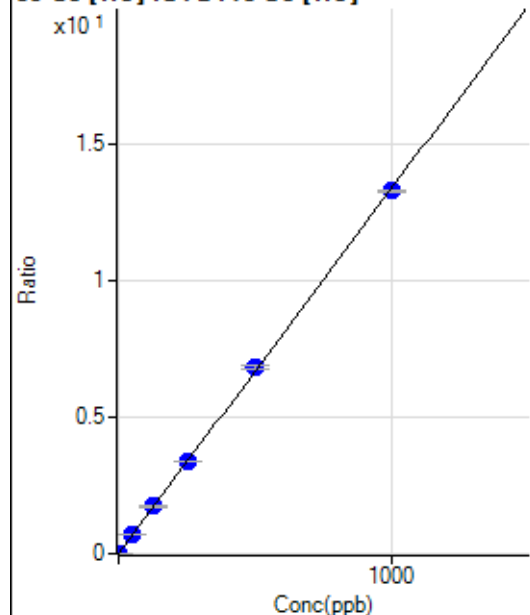
$$y = 1.7478E-004 * x + 0.0018$$

$$R = 1.0000$$

$$DL = 4.2$$

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	212.23	0.0007	P	21.7
2	☐	0.100					
3	☐	1.000	1.028	4404.07	0.0145	P	1.5
4	☐	50.000	51.835	211549.89	0.6943	P	0.3
5	☐	125.000	129.322	497438.89	1.7312	P	0.8
6	☐	250.000	252.008	912793.75	3.3729	P	0.7
7	☐	500.000	511.006	1768018.24	6.8386	P	2.1
8	☐	1000.000	993.363	3585961.23	13.2932	P	0.8
9	☐			6539.33	0.0242	P	6.2

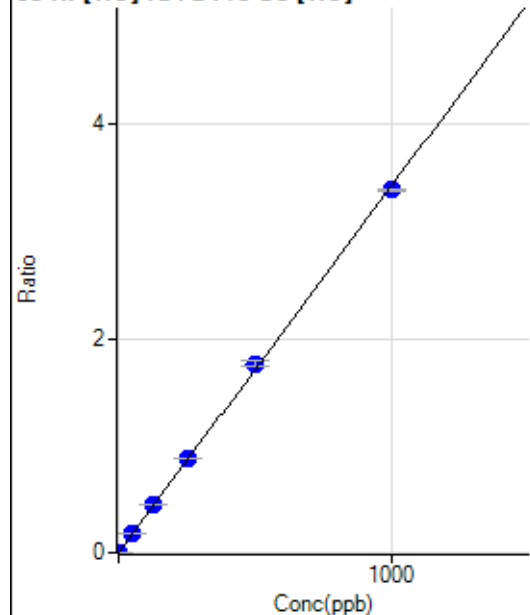
$$y = 0.0134 * x + 6.9514E-004$$

$$R = 0.9999$$

$$DL = 0.03388$$

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	135.56	0.0004	P	14.0
2	☐	0.100					
3	☐	1.000	1.046	1226.74	0.0040	P	5.6
4	☐	50.000	53.241	55689.82	0.1828	P	0.3
5	☐	125.000	132.168	130189.14	0.4531	P	0.3
6	☐	250.000	256.468	237817.07	0.8788	P	0.4
7	☐	500.000	515.872	456836.98	1.7671	P	2.5
8	☐	1000.000	989.389	914146.28	3.3887	P	0.8
9	☐			27149.78	0.1006	P	8.0

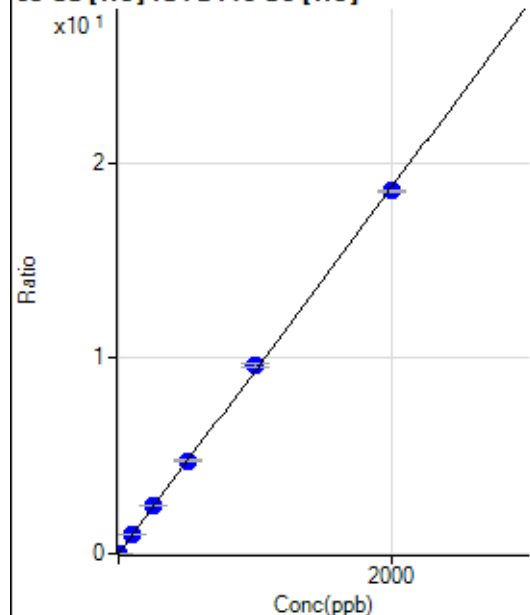
$$y = 0.0034 * x + 4.4440E-004$$

$$R = 0.9998$$

$$DL = 0.05435$$

Weight: <None>

Min Conc: 0

⁶³Cu [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	682.25	0.0022	P	6.9
2	☐	0.200					
3	☐	2.000	2.004	6395.95	0.0210	P	3.4
4	☐	100.000	105.072	300263.25	0.9855	P	0.6
5	☐	250.000	261.549	703903.19	2.4497	P	0.9
6	☐	500.000	508.826	1289199.42	4.7637	P	0.3
7	☐	1000.000	1028.822	2489465.52	9.6296	P	2.5
8	☐	2000.000	1981.685	5003070.69	18.5462	P	0.7
9	☐			9843.47	0.0365	P	9.1

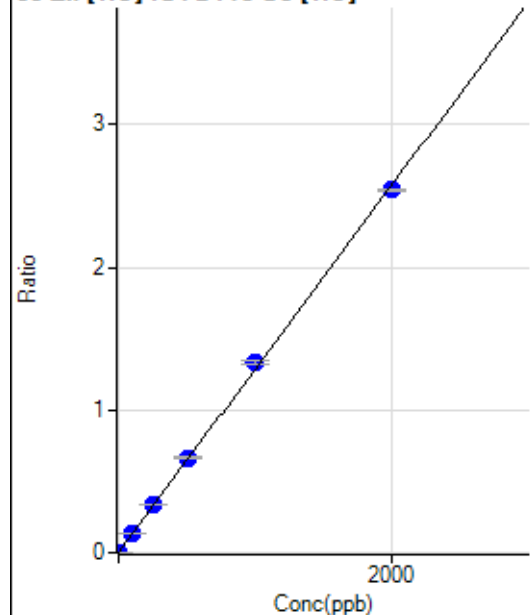
$$y = 0.0094 * x + 0.0022$$

$$R = 0.9998$$

$$DL = 0.04938$$

Weight: <None>

Min Conc: 0

⁶⁶Zn [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	570.02	0.0019	P	4.4
2	☐	0.200					
3	☐	2.000	1.831	1286.75	0.0042	P	7.4
4	☐	100.000	105.329	41812.14	0.1372	P	1.1
5	☐	250.000	261.794	97209.93	0.3383	P	0.5
6	☐	500.000	516.136	180016.07	0.6652	P	0.6
7	☐	1000.000	1035.779	344620.38	1.3329	P	2.0
8	☐	2000.000	1976.336	685659.84	2.5417	P	0.7
9	☐			3637.19	0.0135	P	7.0

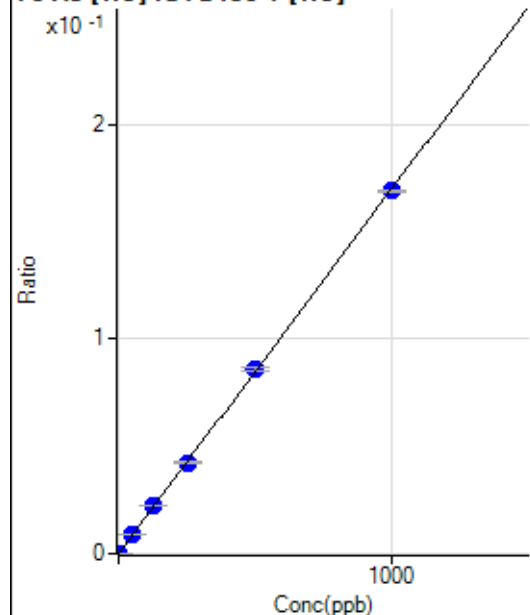
$$y = 0.0013 * x + 0.0019$$

$$R = 0.9997$$

$$DL = 0.1901$$

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	9.88	0.0000	P	39.0
2	☐	0.100					
3	☐	1.000	1.069	328.40	0.0002	P	3.8
4	☐	50.000	52.016	15489.81	0.0088	P	0.8
5	☐	125.000	130.269	36482.66	0.0221	P	0.5
6	☐	250.000	250.363	65533.03	0.0425	P	0.9
7	☐	500.000	506.967	127076.81	0.0861	P	1.9
8	☐	1000.000	995.666	260290.70	0.1691	P	0.2
9	☐			135.81	0.0001	P	14.9

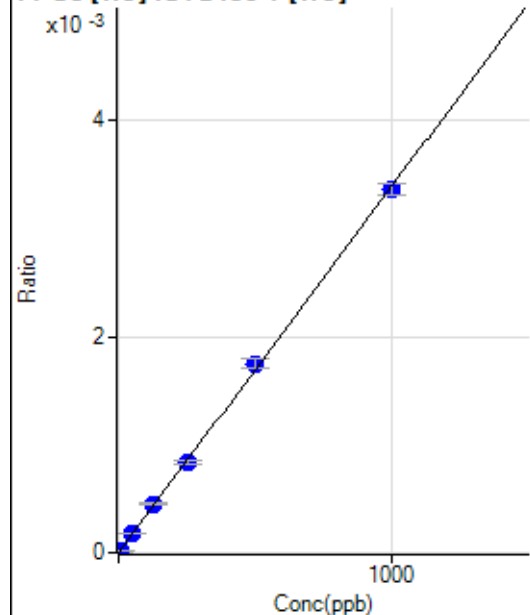
$$y = 1.6982\text{E-}004 * x + 5.6667\text{E-}006$$

$$R = 1.0000$$

$$DL = 0.03906$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1.11	0.0000	P	173.2
2	☐	0.500					
3	☐	5.000	5.045	31.11	0.0000	P	12.5
4	☐	50.000	52.956	315.56	0.0002	P	6.4
5	☐	125.000	131.688	736.70	0.0004	P	4.4
6	☐	250.000	248.121	1296.75	0.0008	P	3.7
7	☐	500.000	516.371	2582.50	0.0018	P	4.8
8	☐	1000.000	991.300	5172.13	0.0034	P	3.1
9	☐			4.44	0.0000	P	50.6

$$y = 3.3884\text{E-}006 * x + 6.3595\text{E-}007$$

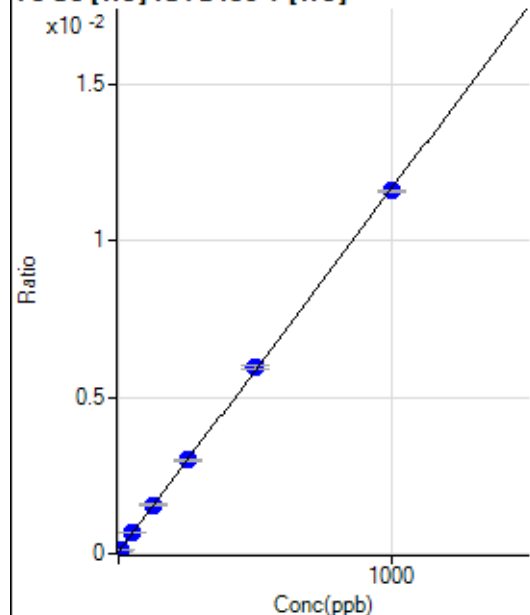
$$R = 0.9998$$

$$DL = 0.9752$$

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	90.13	0.0001	P	13.8
2	☐	0.500					
3	☐	5.000	4.155	175.31	0.0001	P	13.0
4	☐	50.000	52.621	1161.17	0.0007	P	3.7
5	☐	125.000	129.533	2565.07	0.0016	P	2.4
6	☐	250.000	252.651	4600.77	0.0030	P	1.8
7	☐	500.000	509.307	8803.35	0.0060	P	2.5
8	☐	1000.000	993.990	17844.39	0.0116	P	0.5
9	☐			88.89	0.0001	P	9.2

$$y = 1.1611\text{E-}005 * x + 5.1687\text{E-}005$$

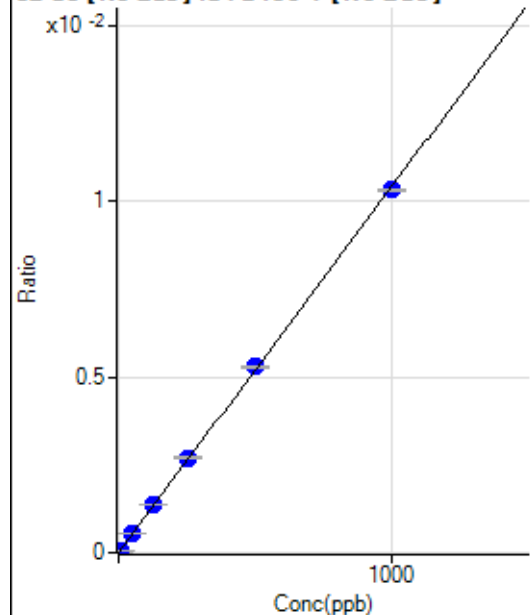
$$R = 0.9999$$

$$DL = 1.839$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	-9.76	0.0000	P	-439.
2	☐	0.500					
3	☐	5.000	4.782	517.43	0.0000	P	6.7
4	☐	50.000	53.404	5948.91	0.0006	P	1.8
5	☐	125.000	132.573	14577.79	0.0014	P	0.7
6	☐	250.000	259.662	26967.86	0.0027	P	0.5
7	☐	500.000	509.090	50757.31	0.0053	P	0.7
8	☐	1000.000	991.924	101715.00	0.0103	P	0.5
9	☐			142.68	0.0000	P	21.3

$$y = 1.0400\text{E-}005 * x - 9.6211\text{E-}007$$

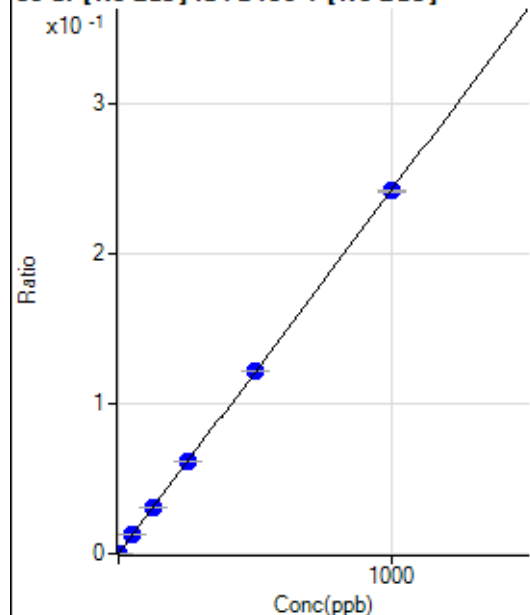
$$R = 0.9999$$

$$DL = 1.22$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	788.94	0.0001	P	7.0
2	☐	0.100					
3	☐	1.000	0.996	3375.55	0.0003	P	7.3
4	☐	50.000	51.097	133742.78	0.0125	P	1.0
5	☐	125.000	127.030	326679.85	0.0309	P	0.7
6	☐	250.000	252.604	612596.86	0.0613	P	0.3
7	☐	500.000	502.093	1167985.28	0.1218	P	0.2
8	☐	1000.000	997.994	2386715.38	0.2420	P	0.8
9	☐			83849.61	0.0085	P	1.2

$$y = 2.4245E-004 * x + 7.6545E-005$$

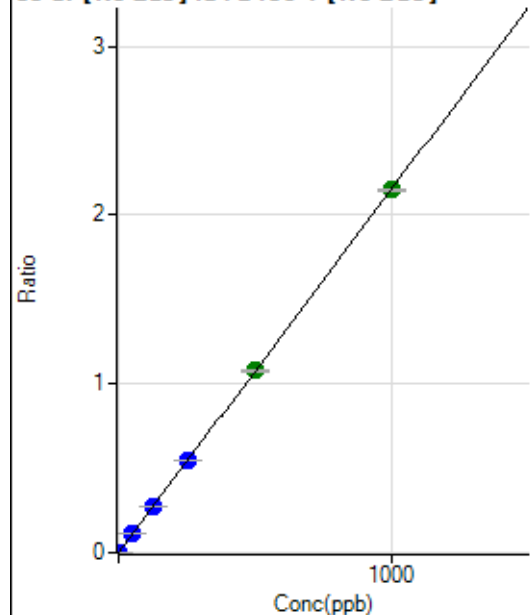
$$R = 1.0000$$

$$DL = 0.0666$$

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	2014.13	0.0002	P	10.8
2	☐	0.100					
3	☐	1.000	0.934	23414.42	0.0022	P	0.8
4	☐	50.000	50.283	1163895.24	0.1085	P	0.4
5	☐	125.000	127.082	2897545.38	0.2739	P	0.4
6	☐	250.000	255.799	5504859.15	0.5510	P	0.1
7	☐	500.000	500.159	10329279.66	1.0772	A	0.4
8	☐	1000.000	998.197	21198115.75	2.1497	A	0.7
9	☐			728872.38	0.0736	P	1.1

$$y = 0.0022 * x + 1.9552E-004$$

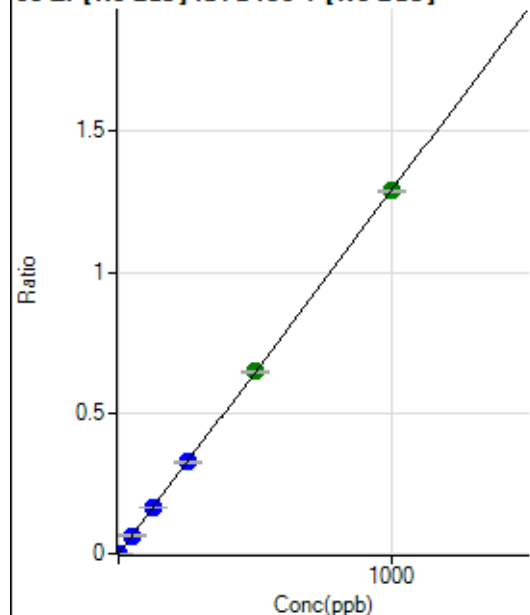
$$R = 1.0000$$

$$DL = 0.02936$$

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	638.94	0.0001	P	8.6
2	☐	0.100					
3	☐	1.000	0.983	14101.93	0.0013	P	1.0
4	☐	50.000	50.164	694879.08	0.0648	P	0.5
5	☐	125.000	126.720	1729967.70	0.1635	P	0.6
6	☐	250.000	252.114	3249168.32	0.3252	P	0.7
7	☐	500.000	500.835	6194557.39	0.6460	A	0.4
8	☐	1000.000	998.831	12704090.91	1.2883	A	0.9
9	☐			4612.03	0.0005	P	5.0

$$y = 0.0013 * x + 6.1989E-005$$

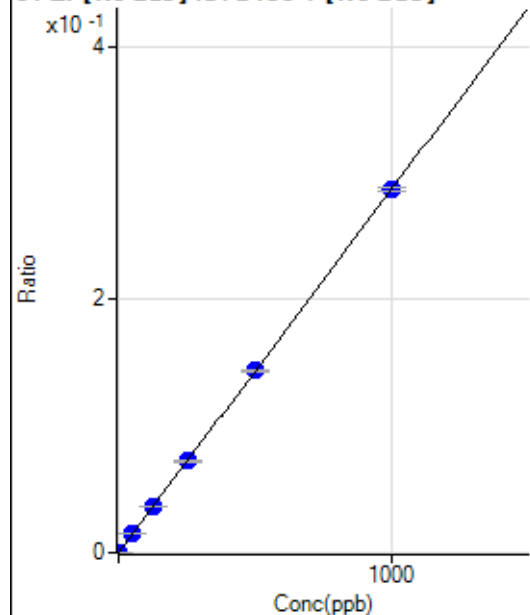
$$R = 1.0000$$

$$DL = 0.01235$$

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	166.67	0.0000	P	20.5
2	☐	0.100					
3	☐	1.000	0.963	3103.25	0.0003	P	6.4
4	☐	50.000	50.412	155331.60	0.0145	P	0.3
5	☐	125.000	126.773	384936.00	0.0364	P	0.7
6	☐	250.000	251.638	721274.67	0.0722	P	0.6
7	☐	500.000	501.722	1380130.61	0.1439	P	0.8
8	☐	1000.000	998.488	2824467.23	0.2864	P	0.9
9	☐			997.30	0.0001	P	5.1

$$y = 2.8685E-004 * x + 1.6186E-005$$

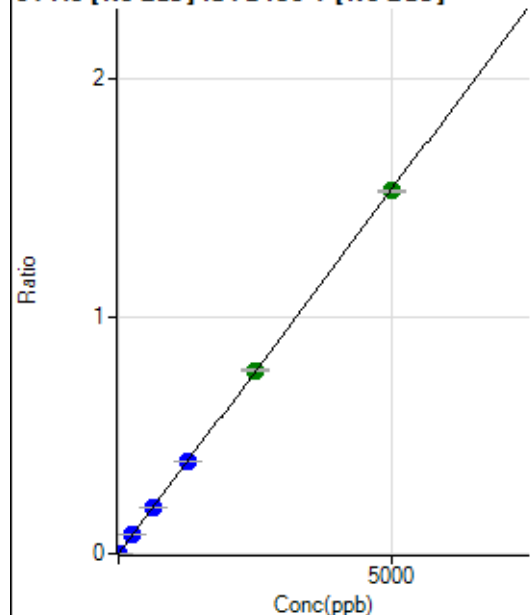
$$R = 1.0000$$

$$DL = 0.03476$$

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	344.47	0.0000	P	6.4
2	☐	0.500					
3	☐	5.000	4.871	16223.73	0.0015	P	2.3
4	☐	250.000	254.067	837498.23	0.0781	P	0.4
5	☐	625.000	636.958	2069964.67	0.1956	P	0.2
6	☐	1250.000	1277.390	3919203.47	0.3923	P	0.1
7	☐	2500.000	2519.738	7419840.10	0.7738	A	0.7
8	☐	5000.000	4981.585	15085762.32	1.5298	A	0.8
9	☐			21183.19	0.0021	P	3.6

$$y = 3.0709\text{E-}004 * x + 3.3431\text{E-}005$$

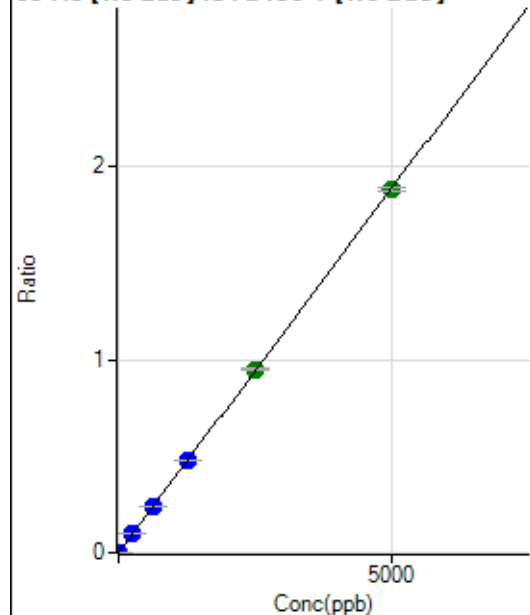
$$R = 1.0000$$

$$DL = 0.0209$$

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	283.35	0.0000	P	28.6
2	☐	0.500					
3	☐	5.000	4.797	19472.27	0.0018	P	1.3
4	☐	250.000	252.960	1023225.74	0.0954	P	0.5
5	☐	625.000	633.680	2527248.67	0.2389	P	0.5
6	☐	1250.000	1274.798	4800086.35	0.4805	P	0.4
7	☐	2500.000	2520.261	9108056.28	0.9499	A	0.5
8	☐	5000.000	4982.437	18516934.27	1.8779	A	1.0
9	☐			35002.19	0.0035	P	1.6

$$y = 3.7689\text{E-}004 * x + 2.7524\text{E-}005$$

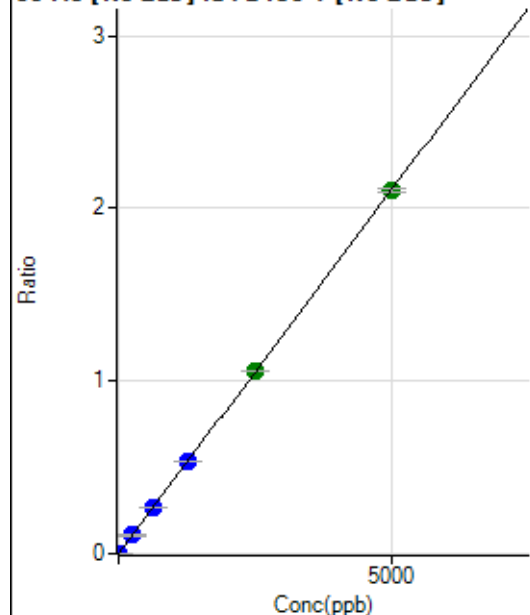
$$R = 1.0000$$

$$DL = 0.06262$$

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	266.68	0.0000	P	13.8
2	☐	0.500					
3	☐	5.000	4.808	21756.34	0.0021	P	3.3
4	☐	250.000	251.432	1136394.32	0.1059	P	0.4
5	☐	625.000	633.730	2824113.82	0.2669	P	0.5
6	☐	1250.000	1272.151	5352467.26	0.5358	P	0.6
7	☐	2500.000	2511.942	10143749.79	1.0579	A	0.3
8	☐	5000.000	4987.328	20711186.92	2.1004	A	1.1
9	☐			41430.61	0.0042	P	3.2

$$y = 4.2114\text{E-}004 * x + 2.5882\text{E-}005$$

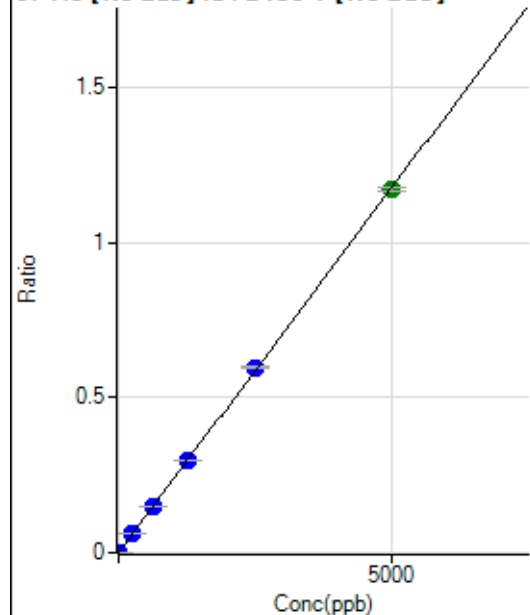
$$R = 1.0000$$

$$DL = 0.02538$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	191.68	0.0000	P	15.2
2	☐	0.500					
3	☐	5.000	4.686	11888.67	0.0011	P	3.8
4	☐	250.000	252.100	636403.17	0.0593	P	1.1
5	☐	625.000	627.492	1561798.01	0.1476	P	0.4
6	☐	1250.000	1261.284	2963861.15	0.2967	P	0.4
7	☐	2500.000	2542.915	5735202.30	0.5981	P	0.3
8	☐	5000.000	4975.305	11539451.30	1.1702	A	1.2
9	☐			21277.71	0.0021	P	2.6

$$y = 2.3521\text{E-}004 * x + 1.8602\text{E-}005$$

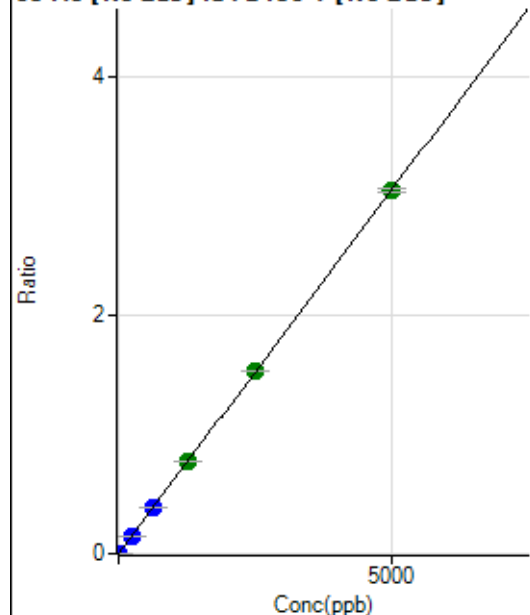
$$R = 0.9999$$

$$DL = 0.03595$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	408.36	0.0000	P	10.5
2	☐	0.500					
3	☐	5.000	4.702	30884.43	0.0029	P	3.3
4	☐	250.000	250.062	1639233.44	0.1528	P	0.4
5	☐	625.000	628.723	4063655.26	0.3841	P	0.4
6	☐	1250.000	1260.691	7693087.76	0.7701	A	0.4
7	☐	2500.000	2512.964	14718076.37	1.5350	A	0.5
8	☐	5000.000	4990.377	30057260.39	3.0482	A	0.9
9	☐			54792.48	0.0055	P	3.0

$$y = 6.1080\text{E-}004 * x + 3.9637\text{E-}005$$

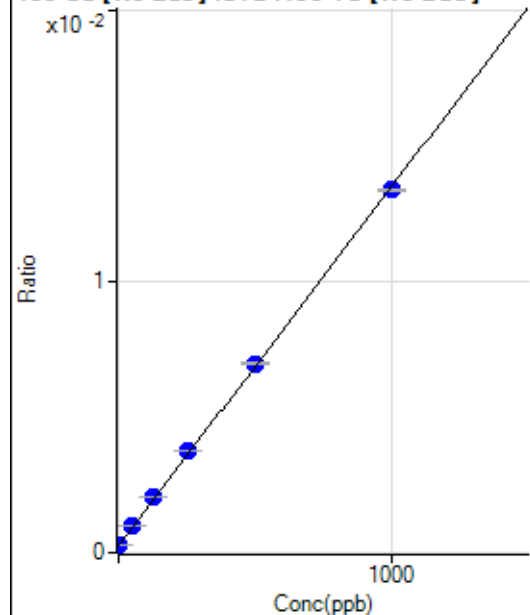
$$R = 1.0000$$

$$DL = 0.0205$$

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	3275.54	0.0003	P	1.5
2	☐	0.100					
3	☐	1.000	0.076	3400.56	0.0003	P	2.1
4	☐	50.000	55.888	13643.18	0.0010	P	1.7
5	☐	125.000	134.784	28017.51	0.0020	P	1.4
6	☐	250.000	263.913	51012.31	0.0038	P	0.9
7	☐	500.000	507.507	93390.49	0.0070	P	1.0
8	☐	1000.000	991.252	182966.84	0.0134	P	0.8
9	☐			3003.24	0.0002	P	4.9

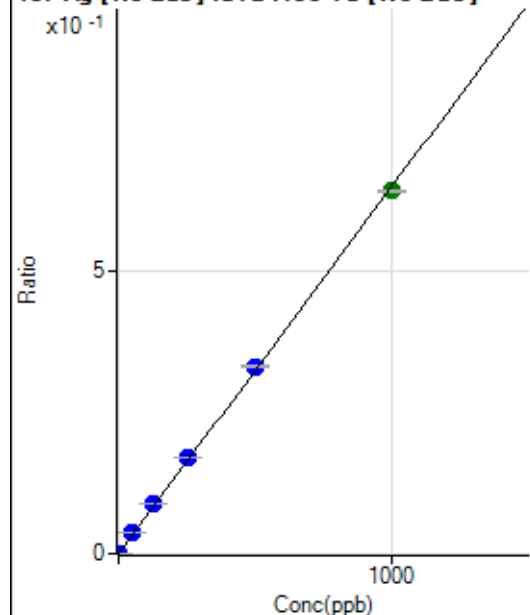
$$y = 1.3262\text{E-}005 * x + 2.5080\text{E-}004$$

$$R = 0.9998$$

$$DL = 0.8307$$

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	77.78	0.0000	P	24.4
2	☐	0.100					
3	☐	1.000	1.076	9489.64	0.0007	P	2.3
4	☐	50.000	55.988	498686.38	0.0363	P	0.7
5	☐	125.000	137.901	1227507.96	0.0893	P	0.8
6	☐	250.000	263.724	2322618.80	0.1708	P	0.7
7	☐	500.000	510.666	4423631.13	0.3307	P	0.4
8	☐	1000.000	989.324	8749398.89	0.6406	A	0.5
9	☐			1127.87	0.0001	P	6.5

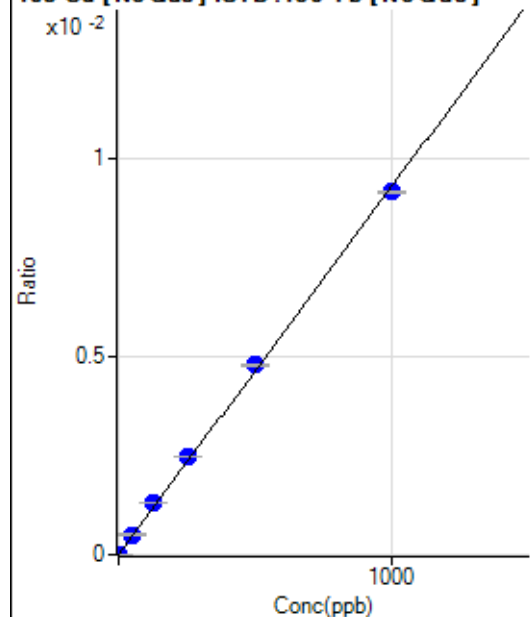
$$y = 6.4753\text{E-}004 * x + 5.9527\text{E-}006$$

$$R = 0.9998$$

$$DL = 0.006728$$

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	5.56	0.0000	P	43.4
2	☐	0.100					
3	☐	1.000	1.073	140.28	0.0000	P	11.2
4	☐	50.000	54.366	6944.92	0.0005	P	2.1
5	☐	125.000	141.801	18095.13	0.0013	P	0.6
6	☐	250.000	265.929	33570.62	0.0025	P	1.3
7	☐	500.000	515.051	63947.83	0.0048	P	1.3
8	☐	1000.000	986.174	125000.70	0.0092	P	0.4
9	☐			41.67	0.0000	P	34.6

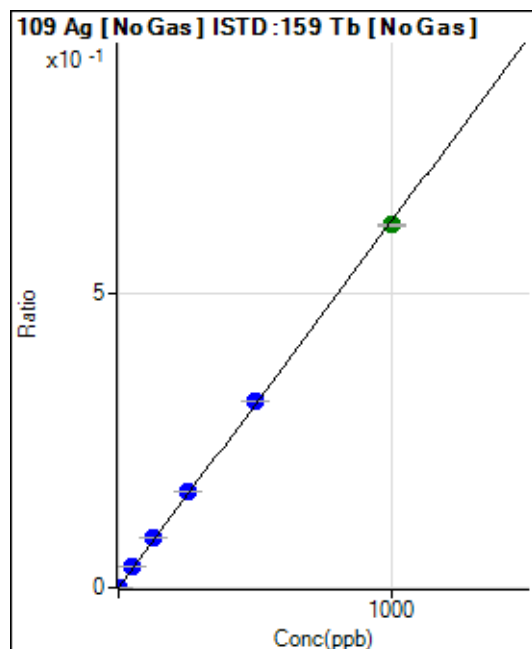
$$y = 9.2804\text{E-}006 * x + 4.2565\text{E-}007$$

$$R = 0.9996$$

$$DL = 0.05971$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	33.34	0.0000	P	43.2
2	☐	0.100					
3	☐	1.000	1.050	8878.15	0.0007	P	3.6
4	☐	50.000	55.719	477930.24	0.0348	P	1.2
5	☐	125.000	137.800	1181325.69	0.0859	P	0.3
6	☐	250.000	263.049	2231166.72	0.1640	P	0.6
7	☐	500.000	509.331	4249273.01	0.3176	P	0.5
8	☐	1000.000	990.186	8433939.34	0.6175	A	0.3
9	☐			1036.19	0.0001	P	5.9

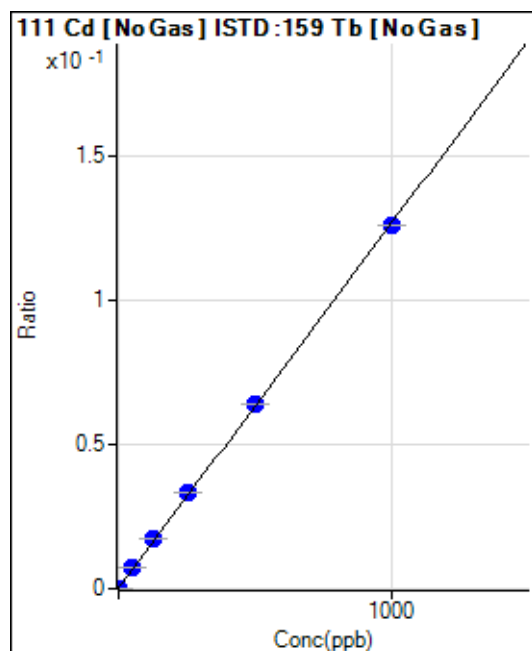
$$y = 6.2364\text{E-}004 * x + 2.5513\text{E-}006$$

$$R = 0.9998$$

$$DL = 0.005301$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1660.27	0.0001	P	1.5
2	☐	0.100					
3	☐	1.000	0.935	3318.89	0.0002	P	2.3
4	☐	50.000	55.331	98279.30	0.0071	P	0.7
5	☐	125.000	134.969	237084.19	0.0172	P	0.0
6	☐	250.000	261.380	452660.56	0.0333	P	0.4
7	☐	500.000	505.870	860118.69	0.0643	P	0.3
8	☐	1000.000	992.707	1721546.58	0.1260	P	0.1
9	☐			1866.92	0.0001	P	2.9

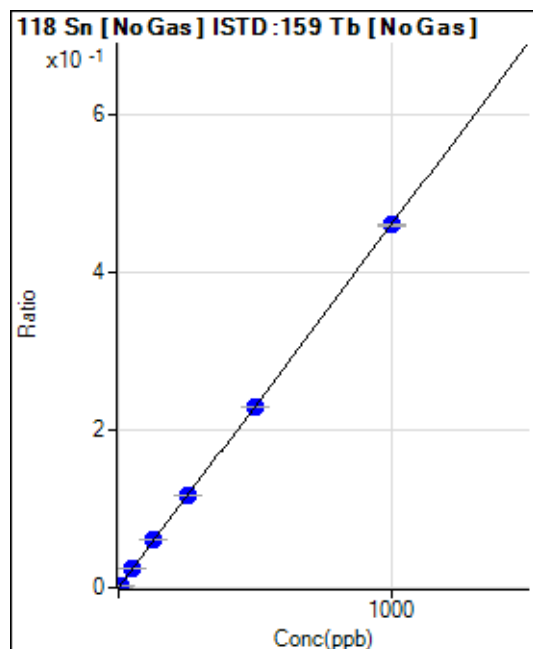
$$y = 1.2685\text{E-}004 * x + 1.2712\text{E-}004$$

$$R = 0.9999$$

$$DL = 0.04479$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1183.43	0.0001	P	4.6
2	☐	0.500					
3	☐	5.000	4.936	31909.42	0.0024	P	1.8
4	☐	50.000	52.141	331368.17	0.0241	P	0.5
5	☐	125.000	130.352	826103.98	0.0601	P	0.5
6	☐	250.000	253.426	1587940.00	0.1168	P	0.1
7	☐	500.000	499.082	3074786.70	0.2298	P	0.3
8	☐	1000.000	998.827	6281249.97	0.4599	P	0.2
9	☐			17736.86	0.0013	P	1.1

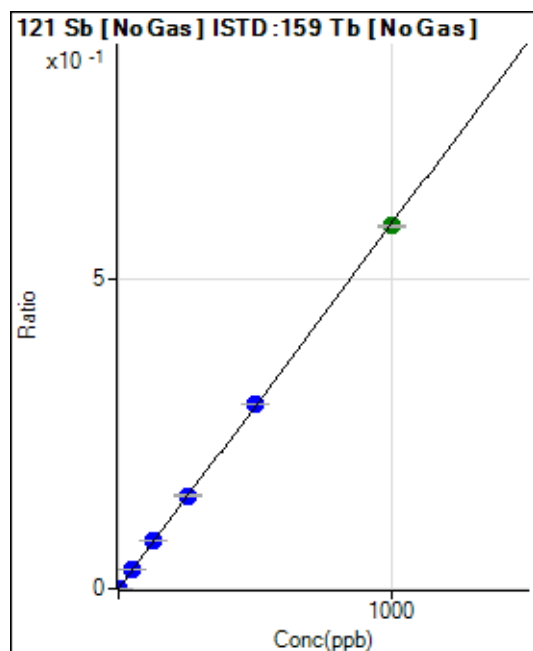
$$y = 4.6035\text{E-}004 * x + 9.0605\text{E-}005$$

$$R = 1.0000$$

$$DL = 0.02722$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	58.33	0.0000	P	61.9
2	☐	0.200					
3	☐	2.000	1.967	15706.57	0.0012	P	1.5
4	☐	50.000	52.234	423161.25	0.0308	P	0.1
5	☐	125.000	130.517	1056684.94	0.0769	P	0.6
6	☐	250.000	255.012	2042736.89	0.1502	P	0.7
7	☐	500.000	506.915	3993935.94	0.2986	P	0.5
8	☐	1000.000	994.488	7999600.18	0.5857	A	0.5
9	☐			11541.35	0.0009	P	4.1

$$y = 5.8896\text{E-}004 * x + 4.4607\text{E-}006$$

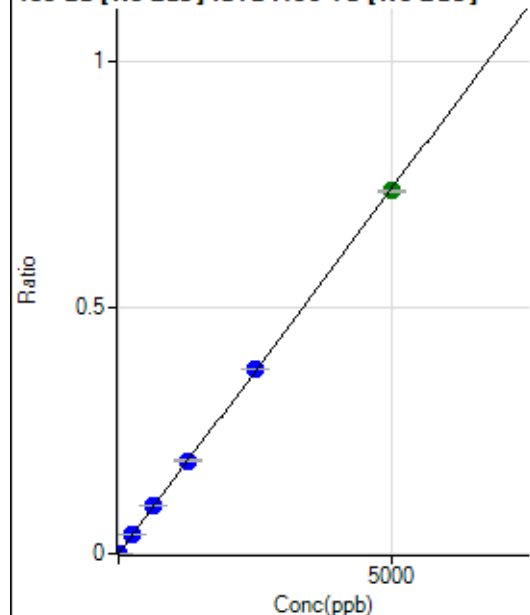
$$R = 0.9999$$

$$DL = 0.01407$$

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	263.90	0.0000	P	24.3
2	☐	1.000					
3	☐	10.000	9.679	19617.25	0.0015	P	2.1
4	☐	250.000	262.394	534343.84	0.0389	P	0.6
5	☐	625.000	654.413	1331536.08	0.0969	P	0.4
6	☐	1250.000	1276.462	2569509.58	0.1889	P	0.5
7	☐	2500.000	2533.847	5016772.16	0.3750	P	0.2
8	☐	5000.000	4972.165	10050243.28	0.7359	A	0.4
9	☐			3870.15	0.0003	P	5.1

$$y = 1.4799\text{E-}004 * x + 2.0200\text{E-}005$$

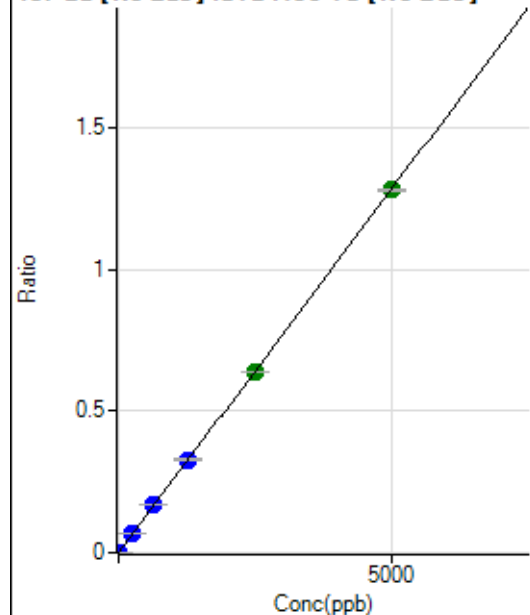
$$R = 0.9999$$

$$DL = 0.09958$$

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	394.47	0.0000	P	3.3
2	☐	1.000					
3	☐	10.000	9.721	34148.57	0.0025	P	1.7
4	☐	250.000	259.674	918261.06	0.0668	P	0.8
5	☐	625.000	651.409	2301698.75	0.1674	P	0.5
6	☐	1250.000	1282.564	4483491.16	0.3297	P	0.4
7	☐	2500.000	2495.319	8579593.51	0.6413	A	0.2
8	☐	5000.000	4990.415	17517179.21	1.2826	A	0.3
9	☐			6604.67	0.0005	P	3.6

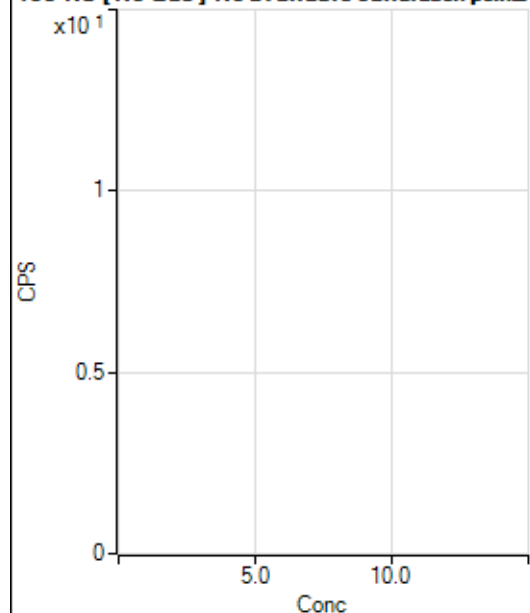
$$y = 2.5700\text{E-}004 * x + 3.0204\text{E-}005$$

$$R = 1.0000$$

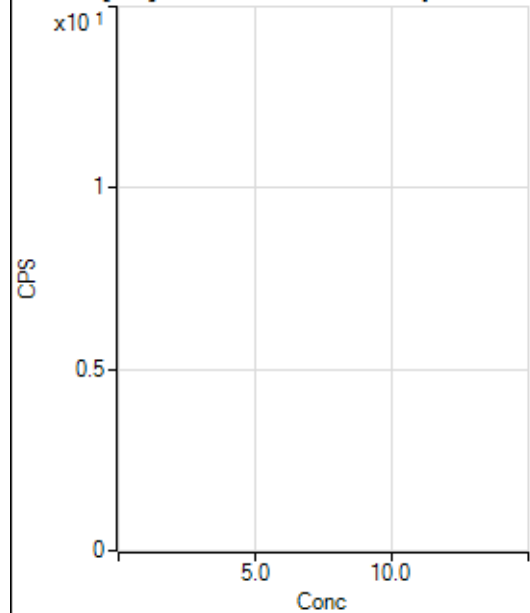
$$DL = 0.01163$$

Weight: <None>

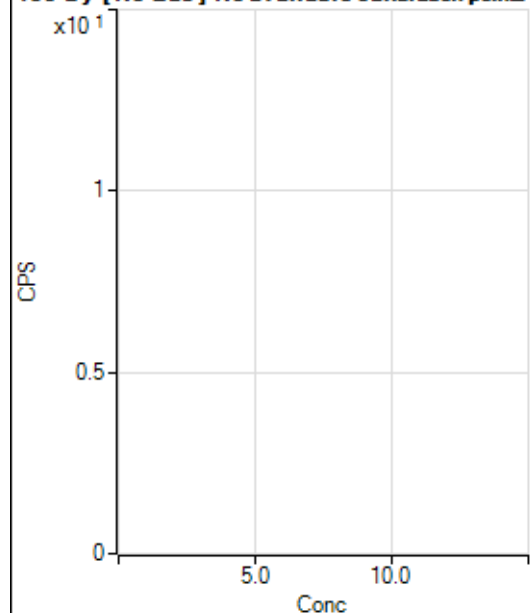
Min Conc: 0

150 Nd [No Gas] No available calibration points

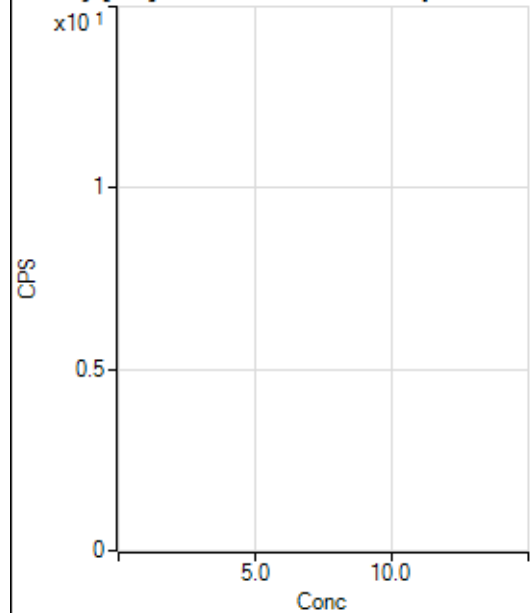
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.89		P	86.6
2	☐						
3	☐			6.67		P	100.0
4	☐			24.44		P	78.7
5	☐			53.34		P	25.0
6	☐			100.00		P	17.6
7	☐			253.35		P	17.3
8	☐			615.59		P	11.1
9	☐			124.45		P	8.2

150 Nd [He] No available calibration points

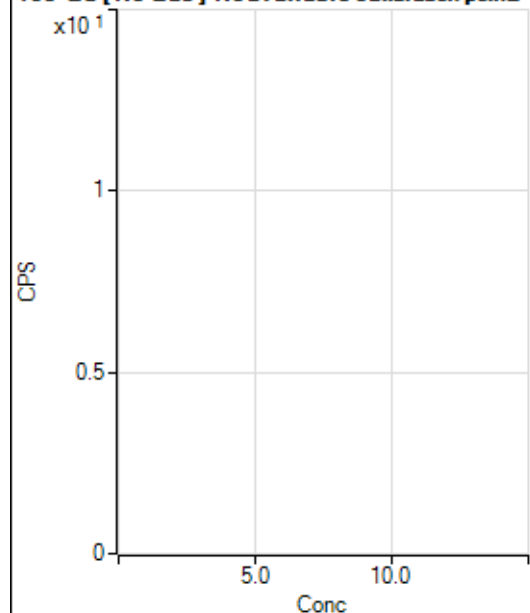
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.2
2	☐						
3	☐			1.11		P	173.2
4	☐			4.44		P	43.4
5	☐			6.67		P	86.6
6	☐			14.44		P	13.4
7	☐			45.55		P	15.2
8	☐			114.45		P	9.4
9	☐			60.00		P	34.7

156 Dy [No Gas] No available calibration points

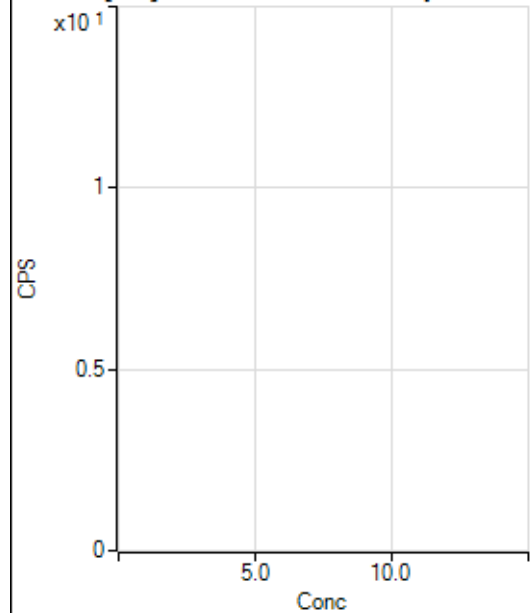
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			13.89		P	69.3
2	☐						
3	☐			16.67		P	50.0
4	☐			22.22		P	57.3
5	☐			16.67		P	50.0
6	☐			38.89		P	32.7
7	☐			94.45		P	43.5
8	☐			194.46		P	2.5
9	☐			105.56		P	9.1

156 Dy [He] No available calibration points

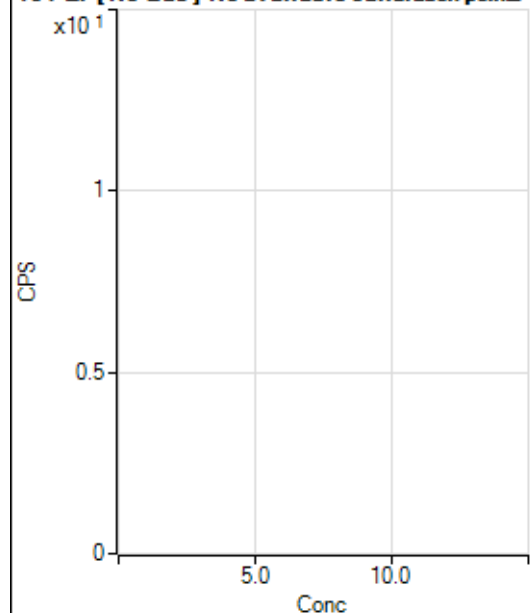
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6.67		P	50.0
2	☐						
3	☐			8.89		P	21.6
4	☐			8.89		P	57.3
5	☐			21.11		P	50.8
6	☐			31.11		P	22.3
7	☐			65.55		P	20.6
8	☐			201.12		P	15.8
9	☐			52.22		P	32.8

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

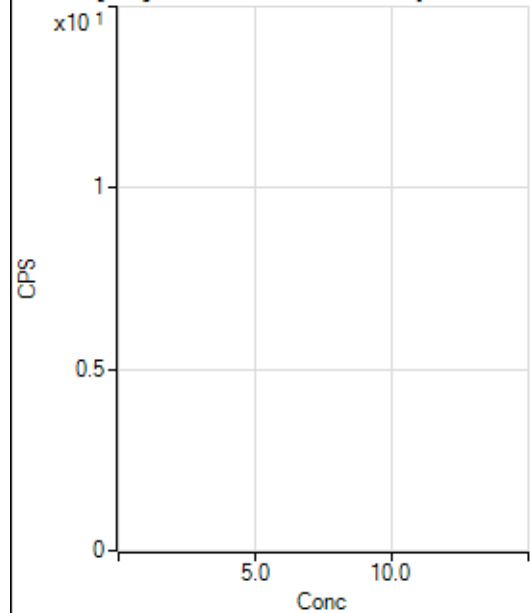
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			86.12		P	24.4
2	☐						
3	☐			77.78		P	12.4
4	☐			80.56		P	63.2
5	☐			69.45		P	45.4
6	☐			86.12		P	5.6
7	☐			136.12		P	39.8
8	☐			172.23		P	31.1
9	☐			111.12		P	8.7

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			176.67		P	9.4
2	☐						
3	☐			157.78		P	6.8
4	☐			186.67		P	6.4
5	☐			130.00		P	11.2
6	☐			151.12		P	7.1
7	☐			130.00		P	15.6
8	☐			187.78		P	17.9
9	☐			174.45		P	2.9

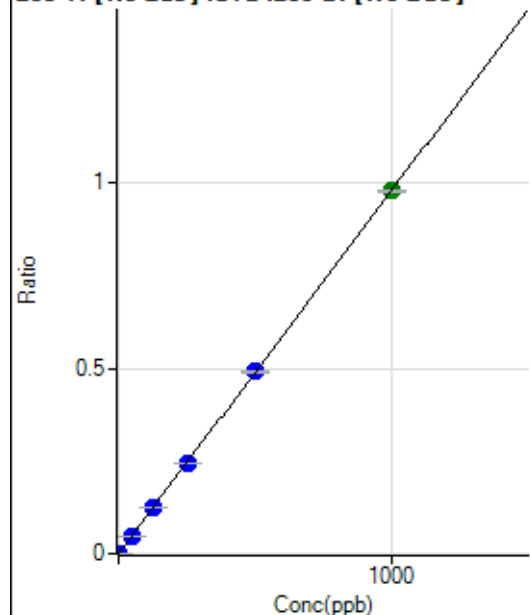
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			63.89		P	27.2
2	☐						
3	☐			72.23		P	35.3
4	☐			58.33		P	24.7
5	☐			50.00		P	50.0
6	☐			47.22		P	27.0
7	☐			63.89		P	7.5
8	☐			113.89		P	25.7
9	☐			36.11		P	53.3

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			18.89		P	51.0
2	☐						
3	☐			26.67		P	45.1
4	☐			22.22		P	31.2
5	☐			18.89		P	53.9
6	☐			21.11		P	39.7
7	☐			33.33		P	43.6
8	☐			57.78		P	8.8
9	☐			37.78		P	10.2

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	116.68	0.0000	P	12.8
2	☐	0.100					
3	☐	1.000	0.937	7902.70	0.0009	P	2.8
4	☐	50.000	49.584	416631.70	0.0486	P	0.9
5	☐	125.000	124.748	1053997.47	0.1222	P	0.2
6	☐	250.000	249.042	2118696.95	0.2440	P	0.6
7	☐	500.000	501.532	4199675.09	0.4914	P	0.5
8	☐	1000.000	999.526	8366198.10	0.9792	A	0.6
9	☐			4728.83	0.0006	P	2.9

$$y = 9.7968\text{E-}004 * x + 1.4134\text{E-}005$$

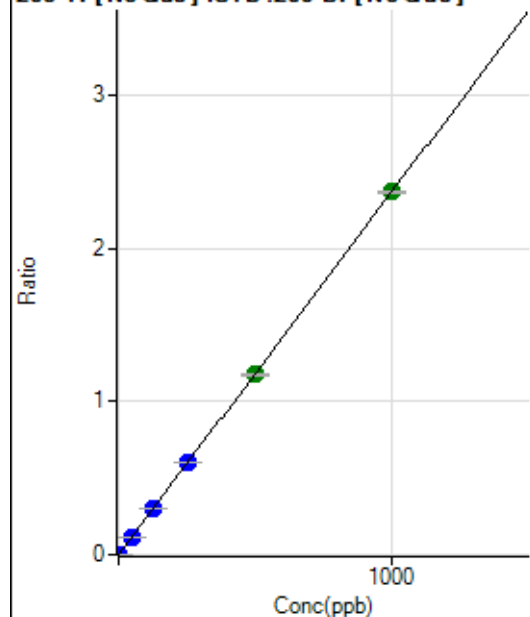
$$R = 1.0000$$

$$DL = 0.00552$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	277.79	0.0000	P	9.1
2	☐	0.100					
3	☐	1.000	0.919	18722.38	0.0022	P	2.2
4	☐	50.000	49.374	1002181.83	0.1169	P	0.8
5	☐	125.000	125.450	2560444.59	0.2969	P	0.4
6	☐	250.000	252.748	5194337.35	0.5982	P	0.5
7	☐	500.000	496.305	10039351.44	1.1746	A	0.9
8	☐	1000.000	1001.136	20242832.57	2.3693	A	0.4
9	☐			11149.57	0.0014	P	9.3

$$y = 0.0024 * x + 3.3649\text{E-}005$$

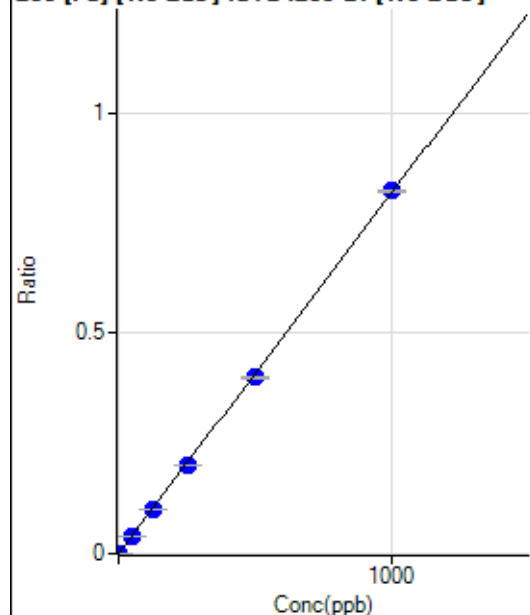
$$R = 1.0000$$

$$DL = 0.003865$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	411.13	0.0000	P	8.7
2	☐	0.100					
3	☐	1.000	0.927	6848.25	0.0008	P	3.3
4	☐	50.000	49.221	345423.70	0.0403	P	0.8
5	☐	125.000	122.970	867254.80	0.1006	P	0.4
6	☐	250.000	244.364	1734987.49	0.1998	P	0.8
7	☐	500.000	490.169	3425155.86	0.4007	P	0.8
8	☐	1000.000	1006.618	7030612.02	0.8229	P	0.7
9	☐			36768.00	0.0048	P	2.8

$$y = 8.1746\text{E-}004 * x + 4.9784\text{E-}005$$

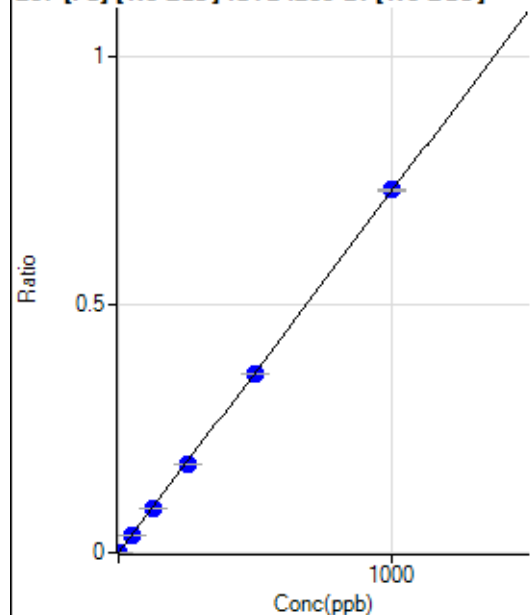
$$R = 0.9999$$

$$DL = 0.01592$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	305.57	0.0000	P	12.7
2	☐	0.100					
3	☐	1.000	0.937	6090.47	0.0007	P	1.7
4	☐	50.000	49.070	306030.31	0.0357	P	0.6
5	☐	125.000	122.644	768761.72	0.0892	P	0.1
6	☐	250.000	244.632	1543788.38	0.1778	P	0.5
7	☐	500.000	494.229	3069651.66	0.3591	P	0.4
8	☐	1000.000	1004.568	6236468.37	0.7300	P	0.6
9	☐			30745.24	0.0040	P	2.5

$$y = 7.2660\text{E-}004 * x + 3.7004\text{E-}005$$

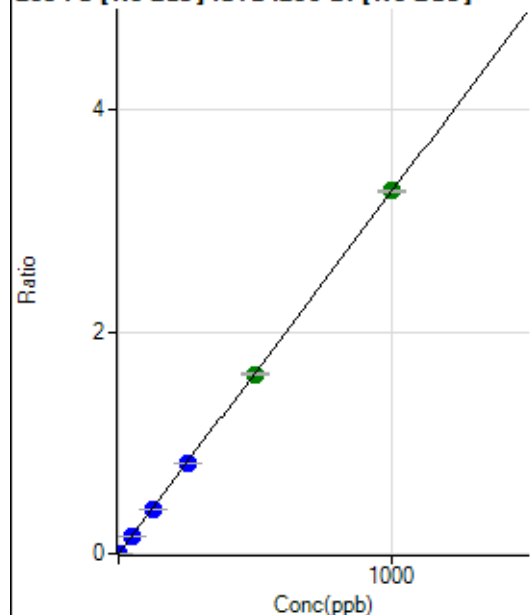
$$R = 1.0000$$

$$DL = 0.01934$$

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	1635.27	0.0002	P	2.3
2	☐	0.100					
3	☐	1.000	0.930	27404.33	0.0032	P	1.4
4	☐	50.000	49.389	1382291.06	0.1612	P	0.5
5	☐	125.000	124.214	3493699.79	0.4052	P	0.1
6	☐	250.000	248.572	7038470.05	0.8106	P	0.6
7	☐	500.000	496.613	13839636.62	1.6192	A	0.4
8	☐	1000.000	1002.179	27915442.64	3.2674	A	0.6
9	☐			143756.94	0.0186	P	2.1

$$y = 0.0033 * x + 1.9802E-004$$

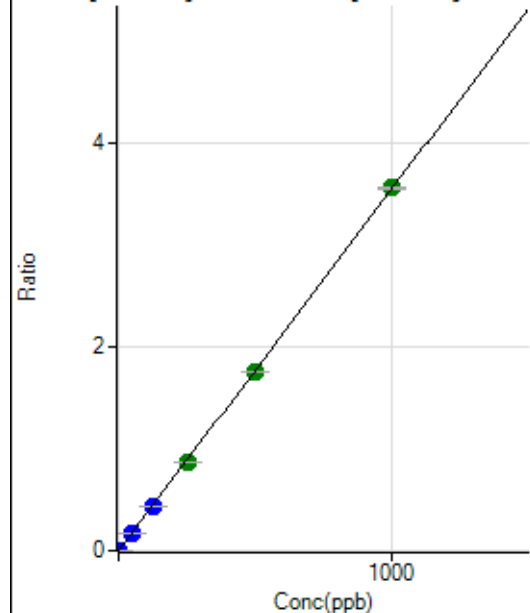
$$R = 1.0000$$

$$DL = 0.004259$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	319.46	0.0000	P	20.5
2	☐	0.100					
3	☐	1.000	0.880	26809.36	0.0032	P	0.4
4	☐	50.000	47.232	1437262.58	0.1676	P	0.5
5	☐	125.000	120.848	3697920.53	0.4288	P	0.4
6	☐	250.000	245.040	7550112.15	0.8695	A	0.4
7	☐	500.000	495.021	15012696.34	1.7565	A	0.6
8	☐	1000.000	1004.387	30447256.23	3.5638	A	0.7
9	☐			3992.48	0.0005	P	12.4

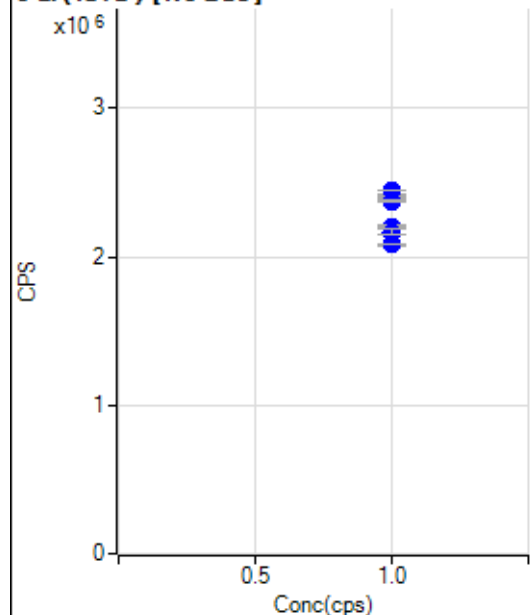
$$y = 0.0035 * x + 3.8730E-005$$

$$R = 1.0000$$

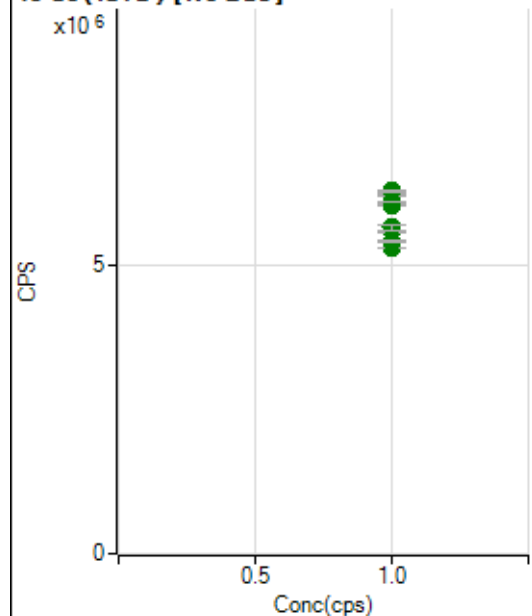
$$DL = 0.00671$$

Weight: <None>

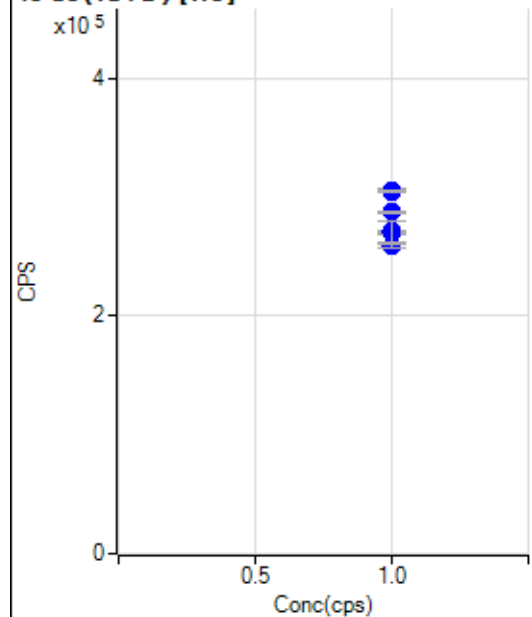
Min Conc: 0

6 Li (ISTD) [No Gas]

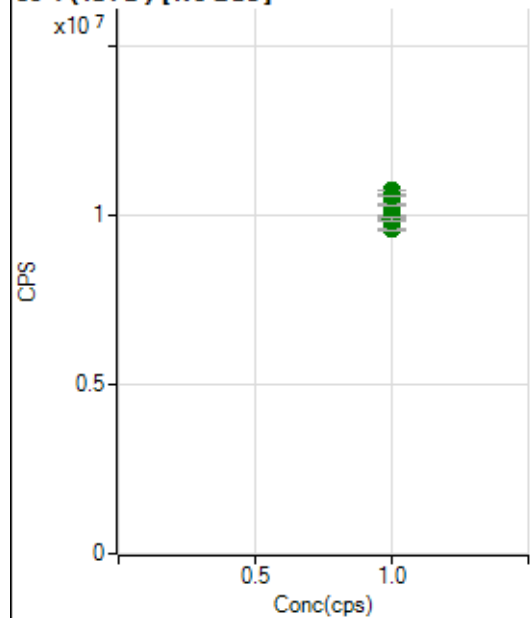
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2388304.06		P	0.1
2	☐	1.000					
3	☐	1.000		2416154.22		P	0.2
4	☐	1.000		2443124.72		P	0.1
5	☐	1.000		2374498.61		P	0.1
6	☐	1.000		2205629.64		P	0.8
7	☐	1.000		2079480.27		P	0.5
8	☐	1.000		2083594.43		P	0.2
9	☐	1.000		2167967.66		P	1.8

45 Sc (ISTD) [No Gas]

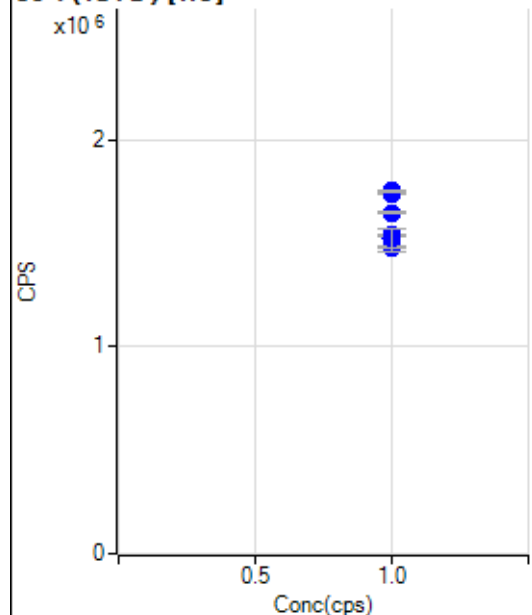
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6025309.90		A	0.4
2	☐	1.000					
3	☐	1.000		6203372.84		A	0.3
4	☐	1.000		6269331.34		A	0.3
5	☐	1.000		6077629.39		A	0.2
6	☐	1.000		5576514.84		A	0.6
7	☐	1.000		5276997.95		A	0.3
8	☐	1.000		5390660.02		A	0.6
9	☐	1.000		5632543.44		A	1.2

45 Sc (ISTD) [He]

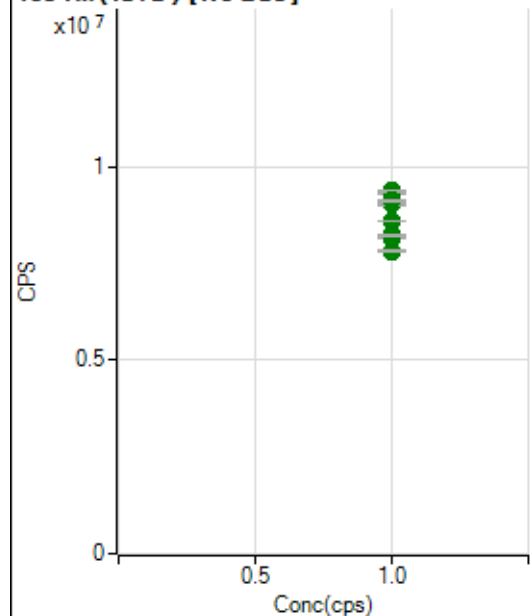
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		304972.28		P	0.9
2	☐	1.000					
3	☐	1.000		304761.36		P	0.2
4	☐	1.000		304690.43		P	0.1
5	☐	1.000		287348.42		P	0.6
6	☐	1.000		270633.30		P	0.6
7	☐	1.000		258597.86		P	1.8
8	☐	1.000		269777.91		P	1.2
9	☐	1.000		270862.06		P	6.5

89 Y (ISTD) [No Gas]

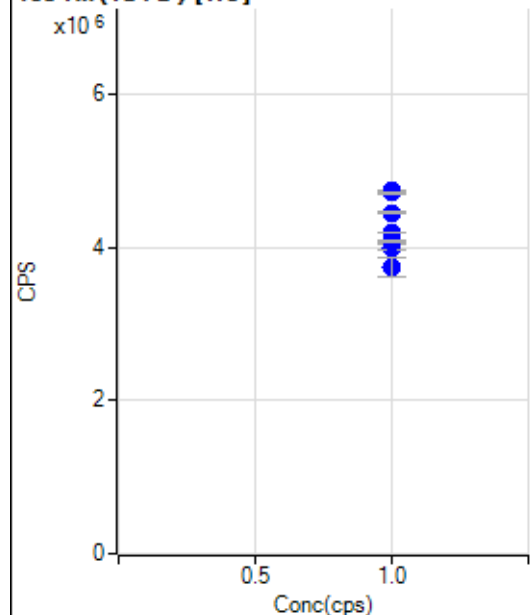
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10305253.67		A	0.6
2	☐	1.000					
3	☐	1.000		10609673.11		A	0.6
4	☐	1.000		10729491.23		A	0.1
5	☐	1.000		10580596.92		A	0.3
6	☐	1.000		9990035.27		A	0.2
7	☐	1.000		9588643.61		A	0.3
8	☐	1.000		9861290.83		A	1.0
9	☐	1.000		9909724.51		A	0.9

89 Y (ISTD) [He]

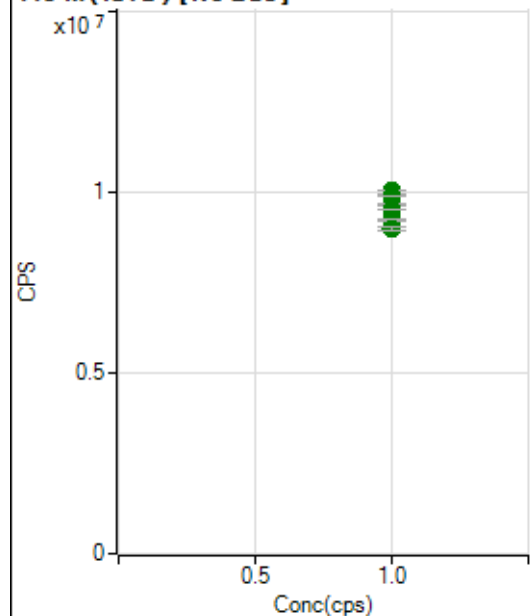
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1743320.08		P	0.2
2	☐	1.000					
3	☐	1.000		1754802.01		P	0.3
4	☐	1.000		1752369.05		P	0.2
5	☐	1.000		1648694.99		P	0.7
6	☐	1.000		1541121.59		P	0.6
7	☐	1.000		1476217.22		P	1.8
8	☐	1.000		1539312.55		P	0.7
9	☐	1.000		1523895.69		P	6.4

103 Rh (ISTD) [No Gas]

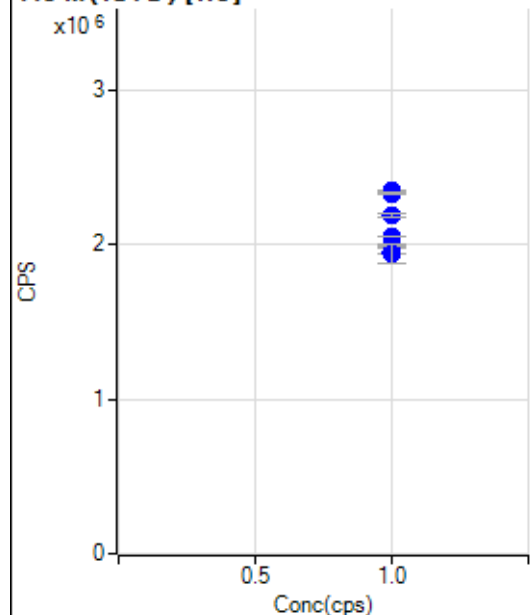
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9031543.95		A	0.4
2	☐	1.000					
3	☐	1.000		9309073.73		A	0.2
4	☐	1.000		9383747.52		A	0.3
5	☐	1.000		9143532.41		A	0.5
6	☐	1.000		8597116.86		A	0.3
7	☐	1.000		8177520.15		A	0.1
8	☐	1.000		8233853.48		A	0.3
9	☐	1.000		7815248.70		A	0.8

103 Rh (ISTD) [He]

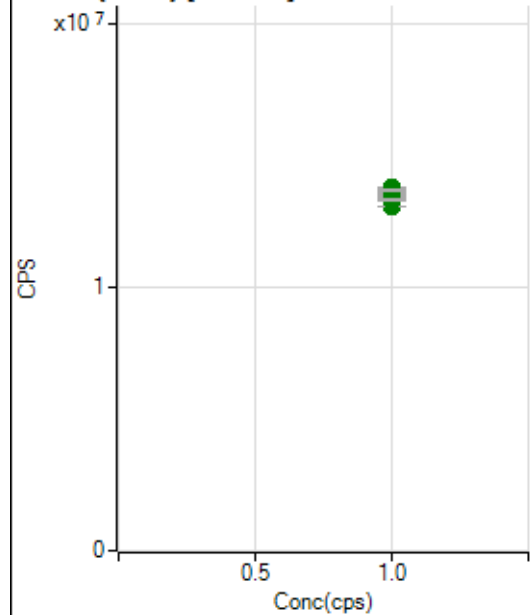
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4724374.55		P	0.5
2	☐	1.000					
3	☐	1.000		4741041.80		P	0.5
4	☐	1.000		4714796.28		P	0.3
5	☐	1.000		4459987.43		P	0.5
6	☐	1.000		4193408.38		P	0.2
7	☐	1.000		4005903.59		P	2.2
8	☐	1.000		4077414.97		P	0.3
9	☐	1.000		3740948.83		P	6.7

115 In (ISTD) [No Gas]

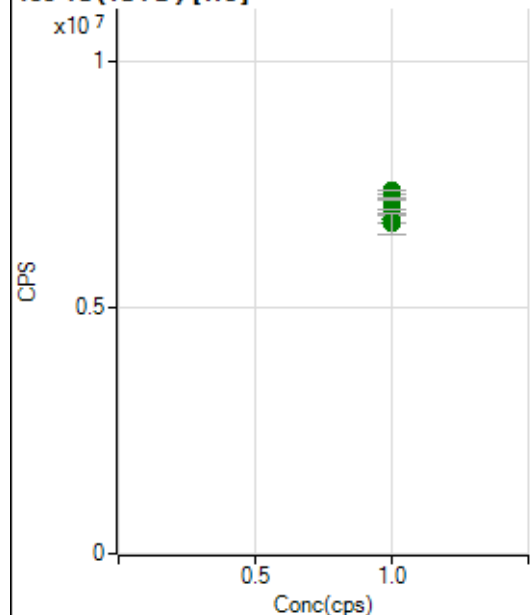
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9669393.16		A	0.3
2	☐	1.000					
3	☐	1.000		9932637.36		A	0.5
4	☐	1.000		10038036.39		A	0.1
5	☐	1.000		9905210.86		A	0.2
6	☐	1.000		9528954.90		A	0.4
7	☐	1.000		9204271.35		A	0.2
8	☐	1.000		9240714.86		A	0.6
9	☐	1.000		9003946.53		A	1.3

115 In (ISTD) [He]

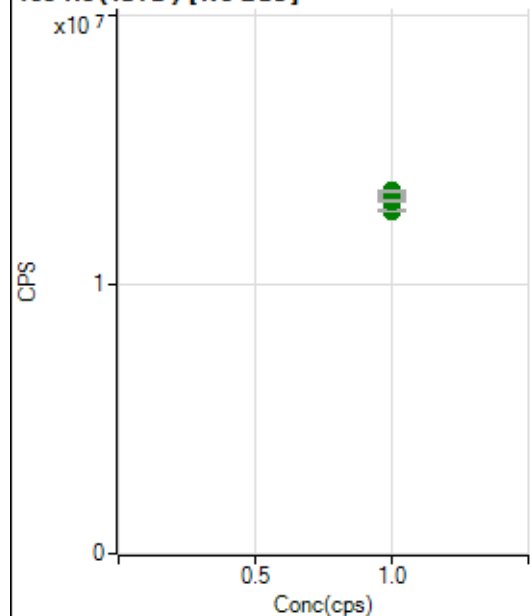
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2332044.73		P	0.5
2	☐	1.000					
3	☐	1.000		2350665.53		P	0.6
4	☐	1.000		2339078.09		P	0.5
5	☐	1.000		2194129.02		P	0.7
6	☐	1.000		2055304.39		P	0.4
7	☐	1.000		1961540.62		P	2.1
8	☐	1.000		1998737.28		P	0.6
9	☐	1.000		1938973.34		P	6.5

159 Tb (ISTD) [No Gas]

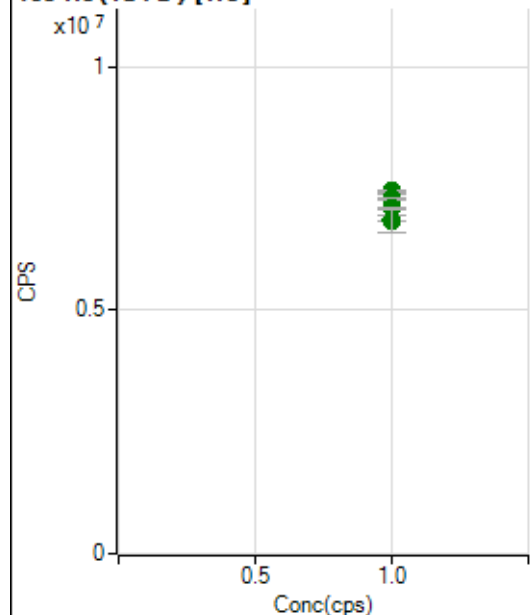
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		13060198.83		A	0.3
2	☐	1.000					
3	☐	1.000		13505107.44		A	0.0
4	☐	1.000		13753290.21		A	0.3
5	☐	1.000		13745877.71		A	0.2
6	☐	1.000		13600481.46		A	0.1
7	☐	1.000		13377625.22		A	0.3
8	☐	1.000		13657658.41		A	0.4
9	☐	1.000		13301470.91		A	0.8

159 Tb (ISTD) [He]

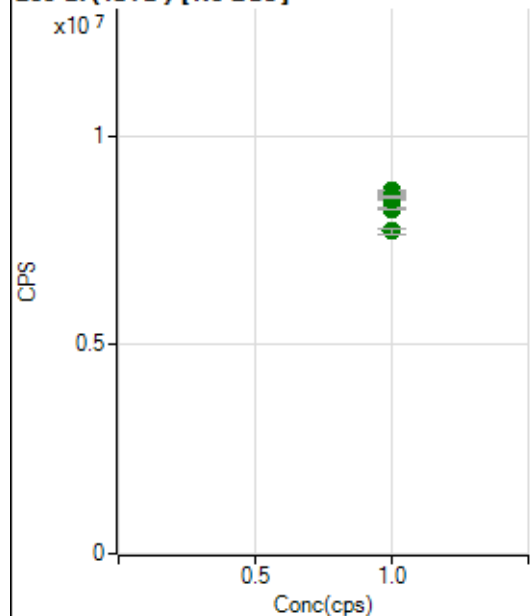
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6995702.81		A	0.3
2	☐	1.000					
3	☐	1.000		7294673.43		A	0.1
4	☐	1.000		7369789.82		A	0.2
5	☐	1.000		7199762.05		A	0.5
6	☐	1.000		6977826.84		A	0.0
7	☐	1.000		6787362.54		A	2.0
8	☐	1.000		6989052.95		A	0.4
9	☐	1.000		6712498.30		A	6.4

165 Ho (ISTD) [No Gas]

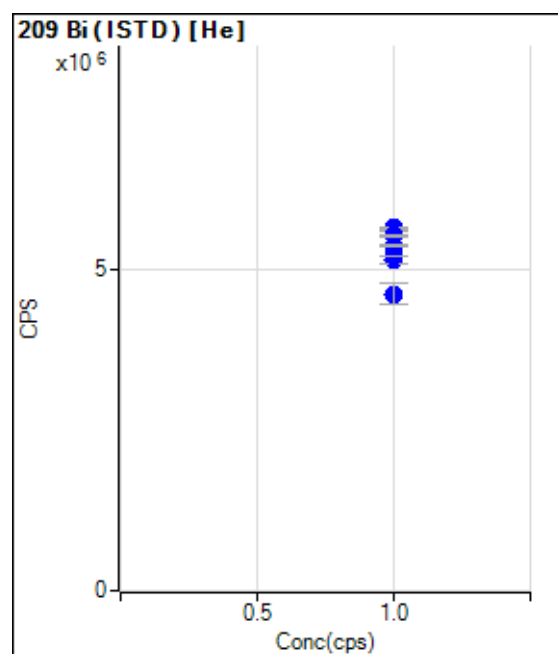
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		12754325.89		A	0.7
2	☐	1.000					
3	☐	1.000		13222911.15		A	0.8
4	☐	1.000		13455075.13		A	0.2
5	☐	1.000		13482563.32		A	0.4
6	☐	1.000		13353139.53		A	0.3
7	☐	1.000		13239806.89		A	0.4
8	☐	1.000		13452619.57		A	0.8
9	☐	1.000		13108642.65		A	1.0

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7096424.96		A	0.4
2	☐	1.000					
3	☐	1.000		7386352.18		A	0.4
4	☐	1.000		7444697.25		A	0.4
5	☐	1.000		7280965.86		A	0.4
6	☐	1.000		7096123.50		A	0.4
7	☐	1.000		6884322.67		A	2.1
8	☐	1.000		7115152.88		A	0.2
9	☐	1.000		6835113.58		A	7.1

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8257823.00		A	0.8
2	☐	1.000					
3	☐	1.000		8480742.02		A	0.6
4	☐	1.000		8574414.73		A	0.4
5	☐	1.000		8623217.09		A	0.3
6	☐	1.000		8683463.90		A	0.4
7	☐	1.000		8547178.83		A	0.3
8	☐	1.000		8543665.98		A	0.4
9	☐	1.000		7720573.15		A	1.6



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5648070.61		P	0.4
2	☐	1.000					
3	☐	1.000		5617082.48		P	0.1
4	☐	1.000		5660370.89		P	0.4
5	☐	1.000		5545377.97		P	0.5
6	☐	1.000		5382289.02		P	0.3
7	☐	1.000		5156332.91		P	2.2
8	☐	1.000		5213493.29		P	0.3
9	☐	1.000		4621328.54		P	7.2

US EPA Tune Check Sample Report

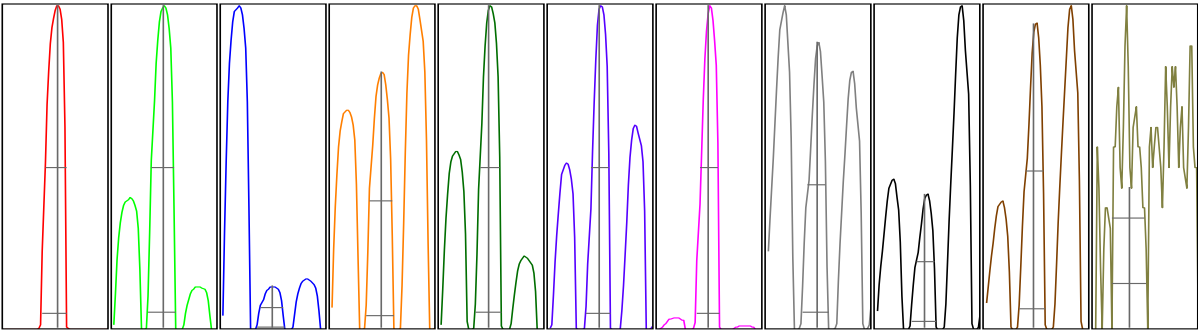
Batch Folder D:\ICP-MS Data\P7053018-MS.b
Report Comment
Instrument Name G8403A JP14410463

[No Gas]

Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)	RSD% (Flag)
9	7413	0.98	5.00	
24	106504	2.63	5.00	
25	14204	2.77	5.00	
26	16404	2.52	5.00	
59	70190	0.45	5.00	
113	10951	0.73	5.00	
115	191422	0.34	5.00	
206	28085	0.96	5.00	
207	25487	0.91	5.00	
208	60678	1.12	5.00	
220	0	36.71		

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
9	7290	7416	7425	7460	7473
24	103306	104544	106229	108121	110320
25	13720	13993	14181	14360	14767
26	15892	16190	16360	16591	16985
59	69672	70125	70480	70354	70317
113	10817	10965	11018	11003	10951
115	190500	191309	192297	191633	191369
206	27634	28046	28203	28252	28291
207	25088	25507	25655	25649	25537
208	59559	60542	61034	61289	60966
220	0	0	0	1	0

Integration Time [sec] = 0.1



Mass	Peak Height	Axis (Actual)	Axis (Required)	Axis (Flag)	Width-X% (Actual)	Width-X% (Required)	Width- X% (Flag)
9	12633	9.10	8.9 - 9.1		0.739	0.900	
24	174604	24.00	23.9 - 24.1		0.819	0.900	
25	23102	25.00	24.9 - 25.1		0.818	0.900	
26	27155	26.00	25.9 - 26.1		0.816	0.900	
59	124583	58.95	58.9 - 59.1		0.764	0.900	
113	21738	113.00	112.9 - 113.1		0.712	0.900	
115	379882	115.00	114.9 - 115.1		0.688	0.900	
206	55757	206.00	205.9 - 206.1		0.771	0.900	
207	50001	206.95	206.9 - 207.1		0.734	0.900	
208	119862	207.95	207.9 - 208.1		0.751	0.900	
220	0	219.60	-		1.009		

X% = 5 Integration Time [sec] = 0.1 Acquisition Time [sec] = 268 Y Axis = Linear

Tune Parameters

Plasma Paramters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
RF Power	1600	W	Carrier Gas	0.80	L/min	S/C Temp		2 °C
RF Matching	1.80	V	Option Gas	0.0	%	Gas Switch		Dilution Gas
Smpl Depth	9.0	mm	Nebulizer Pump	0.10	rpm	Makeup/Dilution Gas		0.37 L/min

Lenses Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Extract 1	0.0	V	Omega Lens	9.7	V	Deflect	15.6	V
Extract 2	-175.0	V	Cell Entrance	-30	V	Plate Bias	-35	V
Omega Bias	-80	V	Cell Exit	-50	V			

Cell Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Use Gas	No		OctP Bias	-8.0	V	Energy Discrimination		5.0 V
He Flow	0.0	mL/min	OctP RF	200	V			

[He]

Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)
59	18949	0.64	
89	54459	0.56	
205	19682	0.53	

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
59	18749	18931	18997	19067	19004
89	54302	54131	54336	54631	54894
205	19636	19601	19774	19813	19584

Integration Time [sec] = 0.1

Tune Parameters

Plasma Paramters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
RF Power	1600	W	Carrier Gas	0.80	L/min	S/C Temp		2 °C
RF Matching	1.80	V	Option Gas	0.0	%	Gas Switch		Dilution Gas
Smpl Depth	9.0	mm	Nebulizer Pump	0.10	rpm	Makeup/Dilution Gas		0.37 L/min

Lenses Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Extract 1	0.0	V	Omega Lens	9.9	V	Deflect	2.6	V
Extract 2	-135.0	V	Cell Entrance	-40	V	Plate Bias	-60	V
Omega Bias	-65	V	Cell Exit	-60	V			

Cell Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Use Gas	Yes		OctP Bias	-18.0	V	Energy Discrimination		5.0 V
He Flow	4.1	mL/min	OctP RF	200	V			