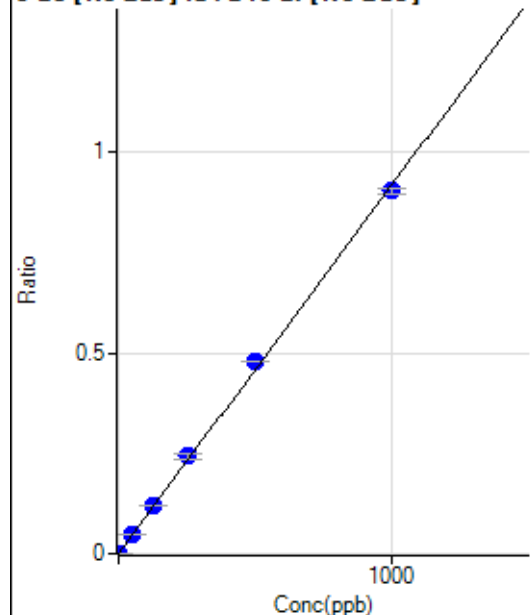


Batch Folder: C:\Agilent\ICPMH\1\DATA\P7011521MS.b\
Analysis File: P7011521MS.batch.bin
DA Date-Time: 2021-01-15 14:35:55
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2021-01-15 12:37:34
2	004CALS.d	S02	2021-01-15 12:40:43
3	005CALS.d	S03	2021-01-15 12:43:52
4	006CALS.d	S04	2021-01-15 12:47:01
5	007CALS.d	S05	2021-01-15 12:50:08
6	008CALS.d	S06	2021-01-15 12:53:12
7	009CALS.d	S07	2021-01-15 12:56:12
8	010CALS.d	S08	2021-01-15 12:59:10

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	12.96	0.0000	P	23.8
2	☐	1.000	0.965	790.77	0.0009	P	5.9
3	☐	50.000	51.752	42546.63	0.0475	P	1.9
4	☐	125.000	130.661	111996.40	0.1198	P	1.1
5	☐	250.000	264.544	223878.27	0.2426	P	4.8
6	☐	500.000	520.510	447579.26	0.4773	P	0.1
7	☐	1000.000	985.314	850022.63	0.9035	P	1.8
8	☐			162.97	0.0002	P	21.9

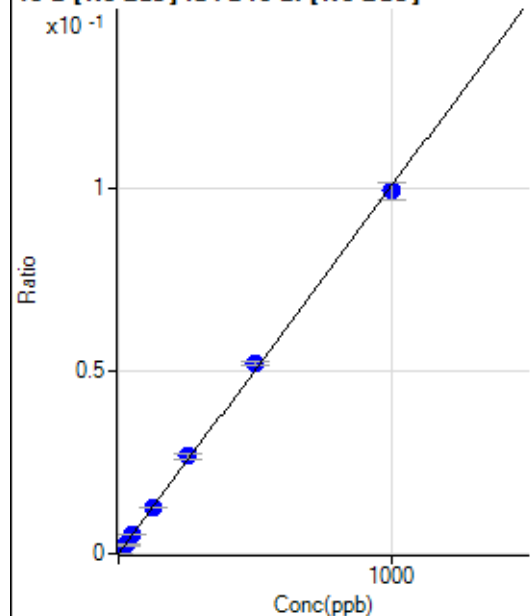
$$y = 9.1693\text{E-}004 * x + 1.4026\text{E-}005$$

$$R = 0.9996$$

$$DL = 0.01091$$

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	27.78	0.0000	P	75.9
2	☐	25.000	23.526	2108.53	0.0024	P	4.3
3	☐	50.000	53.541	4856.45	0.0054	P	2.8
4	☐	125.000	125.403	11821.53	0.0126	P	0.9
5	☐	250.000	264.202	24545.47	0.0266	P	7.2
6	☐	500.000	518.633	48957.29	0.0522	P	1.6
7	☐	1000.000	986.942	93425.82	0.0993	P	4.9
8	☐			2678.08	0.0029	P	13.5

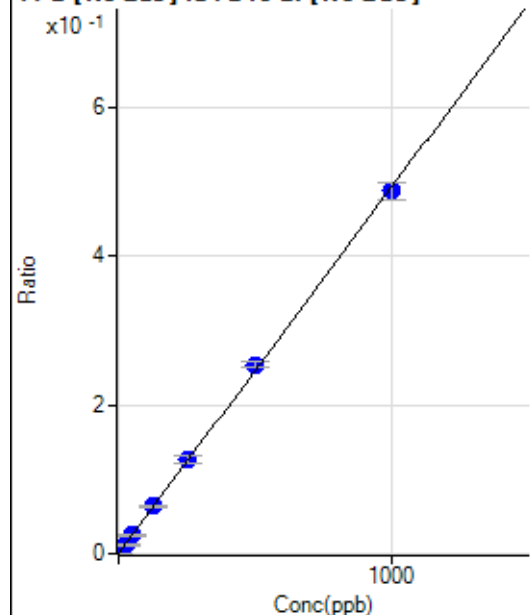
$$y = 1.0060\text{E-}004 * x + 3.0100\text{E-}005$$

$$R = 0.9996$$

$$DL = 0.6812$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	222.23	0.0002	P	29.2
2	☐	25.000	23.699	10473.28	0.0119	P	5.9
3	☐	50.000	50.178	22358.64	0.0249	P	3.7
4	☐	125.000	128.215	59232.85	0.0633	P	3.5
5	☐	250.000	256.526	116717.22	0.1265	P	7.1
6	☐	500.000	515.656	238243.78	0.2541	P	3.1
7	☐	1000.000	990.162	458653.91	0.4876	P	4.8
8	☐			13967.81	0.0152	P	6.6

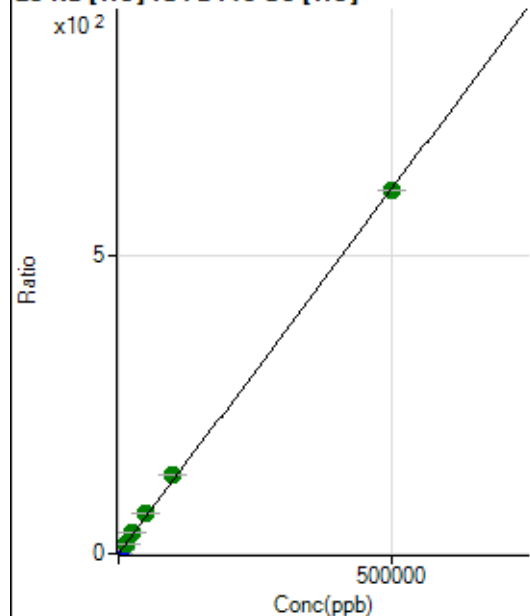
$$y = 4.9221\text{E-}004 * x + 2.4039\text{E-}004$$

$$R = 0.9998$$

$$DL = 0.4279$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	20055.46	0.0723	P	2.9
2	☐	500.000	546.670	195577.24	0.7400	P	2.5
3	☐	5000.000	5812.612	1925756.66	7.1717	P	1.4
4	☐	12500.000	13824.799	4502103.31	16.9576	A	0.4
5	☐	25000.000	28623.660	8838483.36	35.0327	A	3.2
6	☐	50000.000	55962.301	17404243.96	68.4235	A	0.2
7	☐	100000.00	107683.13	33125597.27	131.5943	A	1.1
8	☐	500000.00	497644.66	158012518.8	607.8854	A	0.2

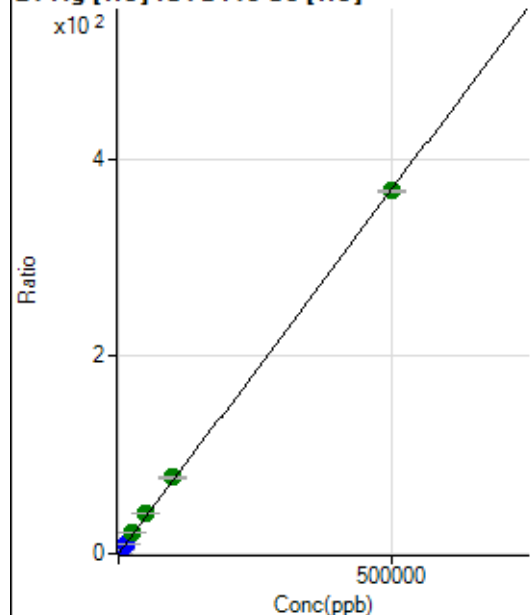
$$y = 0.0012 * x + 0.0723$$

$$R = 0.9998$$

$$DL = 5.191$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	236.12	0.0009	P	16.6
2	☐	500.000	518.049	101340.05	0.3835	P	2.5
3	☐	5000.000	5609.268	1112665.83	4.1436	P	1.0
4	☐	12500.000	14131.325	2771106.53	10.4376	P	0.1
5	☐	25000.000	28106.615	5237866.70	20.7592	A	2.6
6	☐	50000.000	54707.579	10277538.16	40.4055	A	0.1
7	☐	100000.00	104917.32	19505207.38	77.4883	A	1.6
8	☐	500000.00	498343.55	95671057.69	368.0559	A	0.8

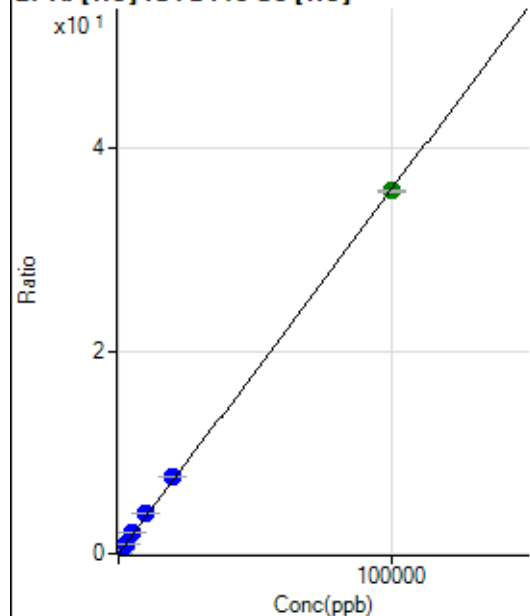
$$y = 7.3856E-004 * x + 8.5002E-004$$

$$R = 0.9999$$

$$DL = 0.5741$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	402.80	0.0015	P	9.3
2	☐	20.000	22.231	2497.50	0.0094	P	4.1
3	☐	1000.000	1115.106	108129.90	0.4027	P	0.4
4	☐	2500.000	2802.479	268092.98	1.0098	P	0.6
5	☐	5000.000	5709.360	518647.09	2.0557	P	3.0
6	☐	10000.000	11125.383	1018559.94	4.0045	P	0.5
7	☐	20000.000	21184.762	1919176.95	7.6239	P	0.9
8	☐	100000.00	99606.328	9316347.43	35.8408	A	0.4

$$y = 3.5981E-004 * x + 0.0015$$

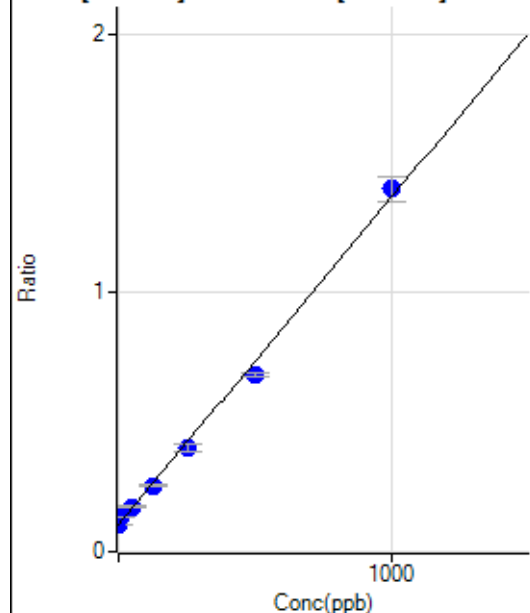
$$R = 0.9999$$

$$DL = 1.121$$

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	319728.09	0.1051	P	0.9
2	☐	10.000	20.322	371470.05	0.1308	P	0.5
3	☐	50.000	54.751	505308.40	0.1743	P	0.3
4	☐	125.000	118.445	748697.49	0.2549	P	1.2
5	☐	250.000	235.714	1154445.12	0.4031	P	7.7
6	☐	500.000	457.628	1976621.33	0.6837	P	1.9
7	☐	1000.000	1025.236	3993308.34	1.4014	P	6.6
8	☐			640356.03	0.2238	P	6.2

$$y = 0.0013 * x + 0.1051$$

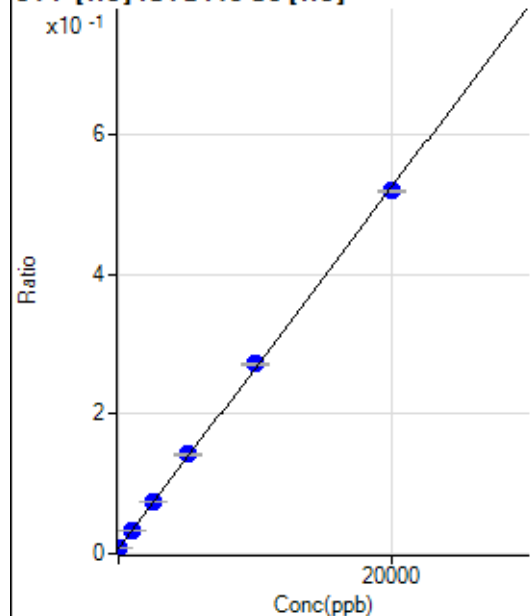
$$R = 0.9983$$

$$DL = 2.202$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.408	2075.19	0.0075	P	4.1
2	☐	0.000	-0.408	1969.63	0.0075	P	7.3
3	☐	1000.000	1017.192	9058.52	0.0337	P	0.5
4	☐	2500.000	2605.313	19844.09	0.0747	P	0.2
5	☐	5000.000	5205.830	35796.07	0.1419	P	3.6
6	☐	10000.000	10238.010	69145.93	0.2718	P	0.6
7	☐	20000.000	19815.514	130698.24	0.5192	P	0.3
8	☐			1914.06	0.0074	P	3.4

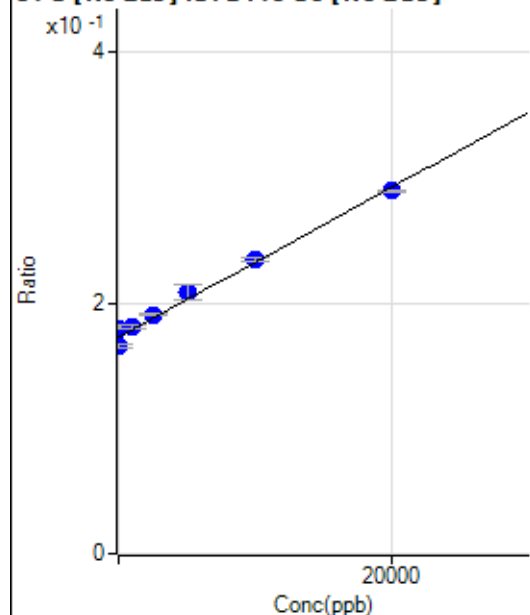
$$y = 2.5823E-005 * x + 0.0075$$

$$R = 0.9998$$

$$DL = 49.56$$

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	-1162.216	504880.36	0.1659	P	1.2
2	☐	0.000	1162.216	510845.39	0.1799	P	0.7
3	☐	1000.000	1434.571	526035.51	0.1815	P	1.3
4	☐	2500.000	2975.873	560202.45	0.1907	P	1.1
5	☐	5000.000	6024.931	598935.93	0.2089	P	5.3
6	☐	10000.000	10293.617	677863.08	0.2345	P	1.1
7	☐	20000.000	19515.746	826034.67	0.2897	P	0.8
8	☐			436794.63	0.1526	P	1.2

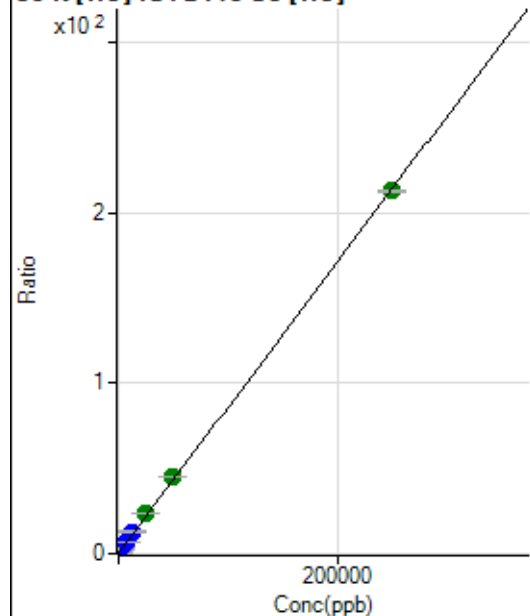
$$y = 5.9834E-006 * x + 0.1729$$

$$R = 0.9938$$

$$DL = 810.9$$

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	100510.23	0.3623	P	1.3
2	☐	500.000	543.573	218313.17	0.8260	P	1.1
3	☐	2500.000	2893.287	760046.33	2.8304	P	0.9
4	☐	6250.000	7171.581	1720349.15	6.4801	P	1.0
5	☐	12500.000	14727.871	3261126.38	12.9261	P	3.1
6	☐	25000.000	27347.640	6025913.68	23.6915	A	1.0
7	☐	50000.000	52442.397	11352863.10	45.0989	A	0.8
8	☐	250000.00	249138.30	55338760.26	212.8928	A	0.8

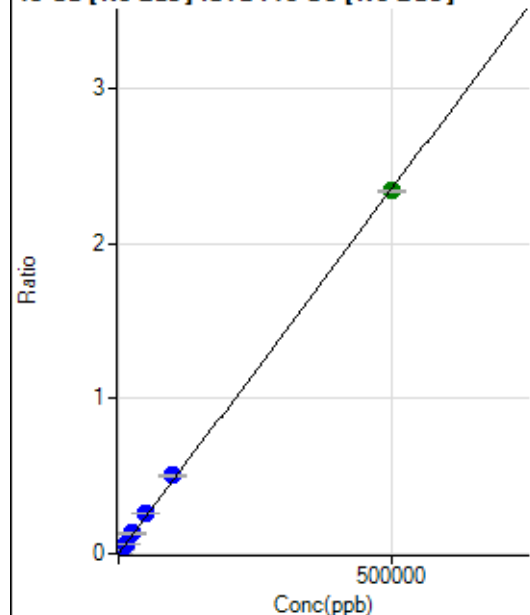
$$y = 8.5306E-004 * x + 0.3623$$

$$R = 0.9999$$

$$DL = 15.99$$

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	327.79	0.0001	P	19.0
2	☐	500.000	510.238	7115.77	0.0025	P	2.0
3	☐	5000.000	5518.425	75480.97	0.0260	P	0.5
4	☐	12500.000	14016.658	193783.89	0.0660	P	1.2
5	☐	25000.000	28502.561	383896.80	0.1340	P	7.1
6	☐	50000.000	56321.613	765343.37	0.2647	P	0.9
7	☐	100000.00	107639.25	1442394.99	0.5059	P	1.6
8	☐	500000.00	497621.74	6691958.87	2.3383	A	0.4

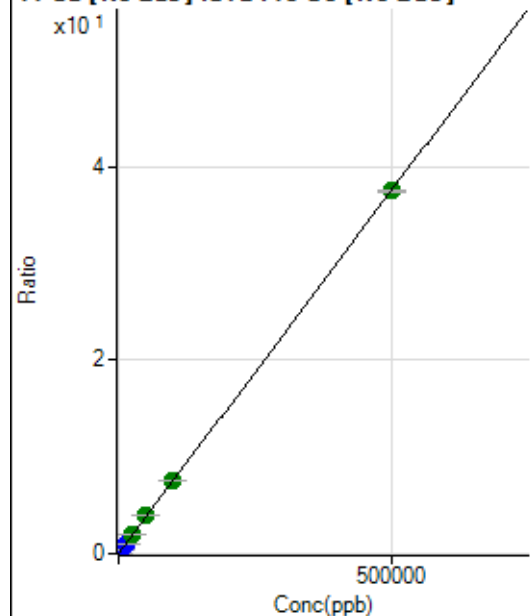
$$y = 4.6987E-006 * x + 1.0770E-004$$

$$R = 0.9998$$

$$DL = 13.03$$

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	12269.25	0.0040	P	3.1
2	☐	500.000	525.947	123483.94	0.0435	P	1.2
3	☐	5000.000	5578.239	1224321.73	0.4224	P	0.9
4	☐	12500.000	14208.126	3142040.15	1.0695	P	0.1
5	☐	25000.000	26518.676	5709071.40	1.9928	A	6.6
6	☐	50000.000	52752.361	11448170.48	3.9601	A	0.4
7	☐	100000.00	100873.96	21580445.97	7.5689	A	2.0
8	☐	500000.00	499425.52	107200869.7	37.4576	A	0.4

$$y = 7.4993E-005 * x + 0.0040$$

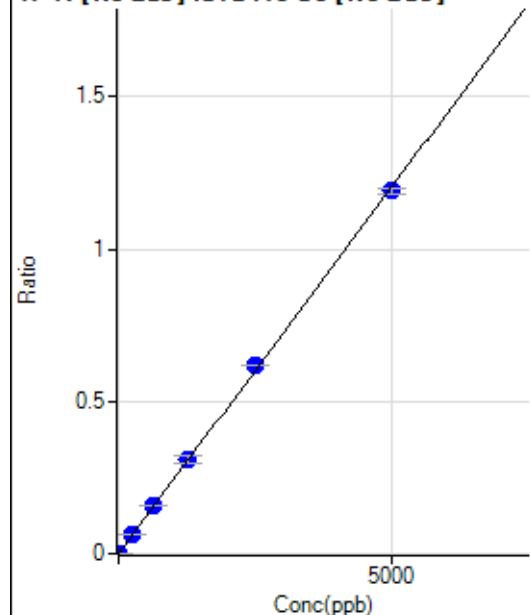
$$R = 1.0000$$

$$DL = 4.951$$

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	47.22	0.0000	P	27.0
2	☐	5.000	4.718	3267.11	0.0012	P	2.5
3	☐	250.000	254.108	177199.36	0.0611	P	2.4
4	☐	625.000	646.038	456550.26	0.1554	P	0.2
5	☐	1250.000	1288.821	888141.70	0.3100	P	6.7
6	☐	2500.000	2570.510	1787477.06	0.6183	P	0.2
7	☐	5000.000	4952.205	3396429.72	1.1912	P	1.7
8	☐			622.25	0.0002	P	3.9

$$y = 2.4053E-004 * x + 1.5525E-005$$

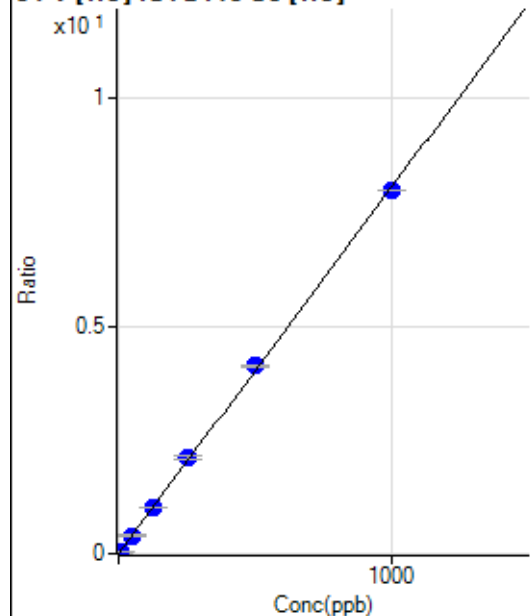
$$R = 0.9998$$

$$DL = 0.05236$$

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	8.89	0.0000	P	78.7
2	☐	5.000	4.695	10002.36	0.0378	P	0.9
3	☐	50.000	49.765	107618.49	0.4008	P	1.5
4	☐	125.000	127.104	271753.82	1.0236	P	0.7
5	☐	250.000	261.166	530619.30	2.1032	P	3.2
6	☐	500.000	513.271	1051345.13	4.1334	P	0.7
7	☐	1000.000	990.323	2007671.93	7.9752	P	0.1
8	☐			696.69	0.0027	P	5.5

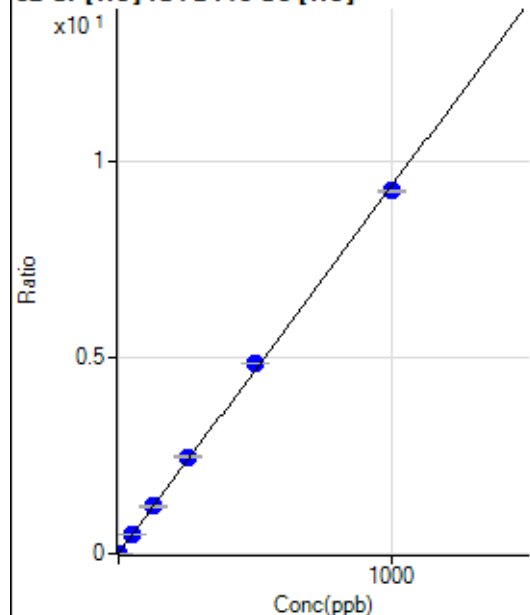
$$y = 0.0081 * x + 3.2211E-005$$

$$R = 0.9998$$

$$DL = 0.009441$$

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	1128.95	0.0041	P	8.2
2	☐	2.000	1.973	5954.58	0.0225	P	1.5
3	☐	50.000	50.632	128229.85	0.4775	P	1.0
4	☐	125.000	127.937	318701.24	1.2004	P	0.6
5	☐	250.000	262.256	619816.63	2.4565	P	2.5
6	☐	500.000	517.376	1231635.94	4.8422	P	0.5
7	☐	1000.000	987.850	2326442.86	9.2418	P	0.8
8	☐			12811.66	0.0493	P	3.8

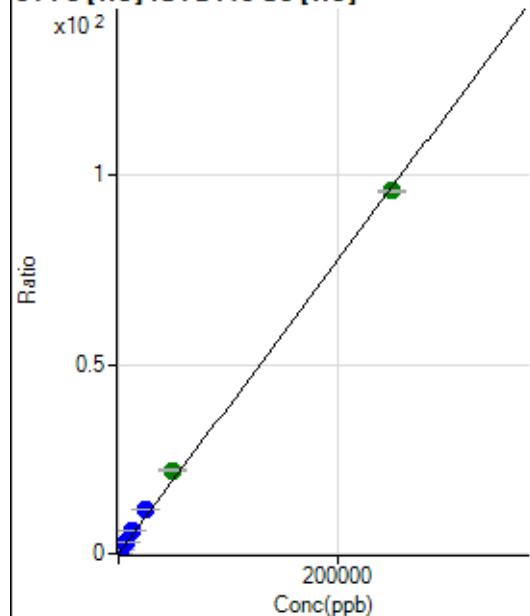
$$y = 0.0094 * x + 0.0041$$

$$R = 0.9997$$

$$DL = 0.1076$$

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	1468.26	0.0053	P	7.5
2	☐	50.000	59.675	7496.28	0.0284	P	2.3
3	☐	2500.000	2940.044	306512.61	1.1416	P	2.1
4	☐	6250.000	7433.565	764130.78	2.8782	P	0.4
5	☐	12500.000	15299.519	1493301.50	5.9182	P	2.3
6	☐	25000.000	29911.587	2941711.95	11.5655	P	0.8
7	☐	50000.000	56920.357	5538968.72	22.0039	A	1.0
8	☐	250000.00	247950.80	24910537.57	95.8332	A	0.8

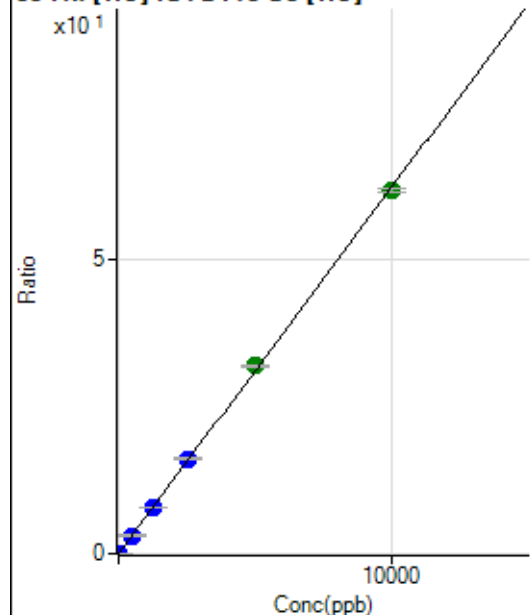
$$y = 3.8648E-004 * x + 0.0053$$

$$R = 0.9995$$

$$DL = 3.089$$

Weight: <None>

Min Conc: 0

⁵⁵Mn [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	126.67	0.0005	P	24.4
2	☐	1.000	0.916	1631.22	0.0062	P	2.6
3	☐	500.000	497.836	834342.11	3.1073	P	1.7
4	☐	1250.000	1263.861	2094155.19	7.8879	P	0.4
5	☐	2500.000	2594.890	4085937.34	16.1945	P	2.8
6	☐	5000.000	5135.645	8152163.98	32.0508	A	1.0
7	☐	10000.000	9906.831	15563304.77	61.8265	A	1.1
8	☐			9218.53	0.0355	P	0.7

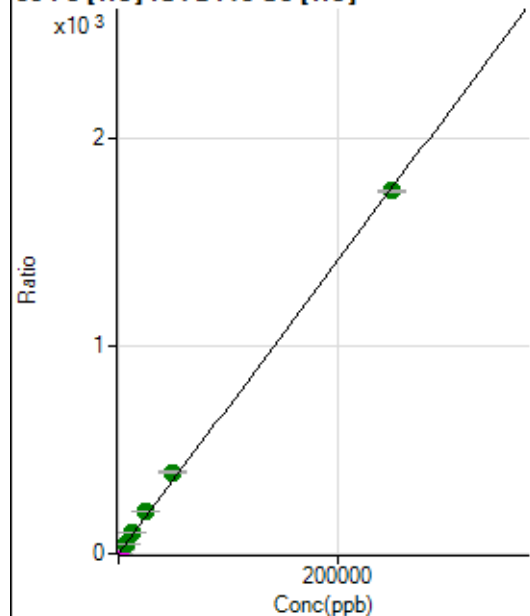
$$y = 0.0062 * x + 4.5733E-004$$

$$R = 0.9998$$

$$DL = 0.05363$$

Weight: <None>

Min Conc: 0

⁵⁶Fe [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	6957.31	0.0251	P	6.9
2	☐	50.000	54.288	107769.13	0.4078	P	1.8
3	☐	2500.000	2812.155	5329353.48	19.8475	M	1.3
4	☐	6250.000	7084.989	13265412.79	49.9660	A	0.4
5	☐	12500.000	14639.464	26043302.43	103.2162	A	2.4
6	☐	25000.000	28908.700	51836531.25	203.7976	A	0.9
7	☐	50000.000	55629.912	98713727.21	392.1508	A	1.2
8	☐	250000.00	248352.17	455049724.9	1,750.617	A	0.5

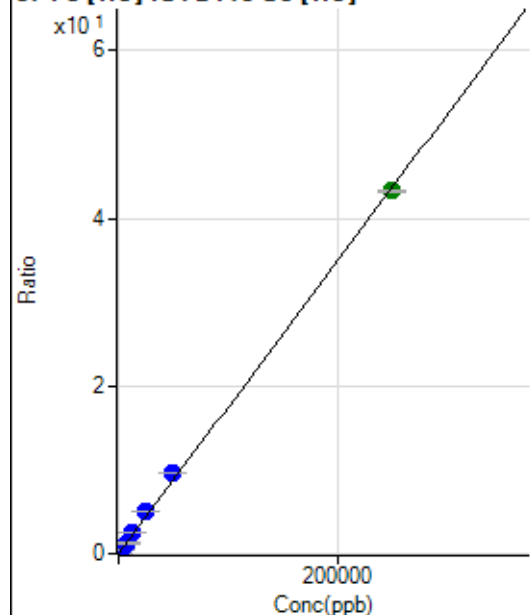
$$y = 0.0070 * x + 0.0251$$

$$R = 0.9997$$

$$DL = 0.7395$$

Weight: <None>

Min Conc: 0

⁵⁷Fe [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	405.57	0.0015	P	16.1
2	☐	50.000	53.178	2835.51	0.0107	P	4.7
3	☐	2500.000	2823.492	132436.34	0.4932	P	1.2
4	☐	6250.000	7204.479	333502.46	1.2562	P	0.8
5	☐	12500.000	14833.399	652217.17	2.5849	P	2.5
6	☐	25000.000	29012.229	1285560.11	5.0543	P	0.8
7	☐	50000.000	55646.860	2440048.64	9.6930	P	0.6
8	☐	250000.00	248325.63	11242320.85	43.2502	A	0.6

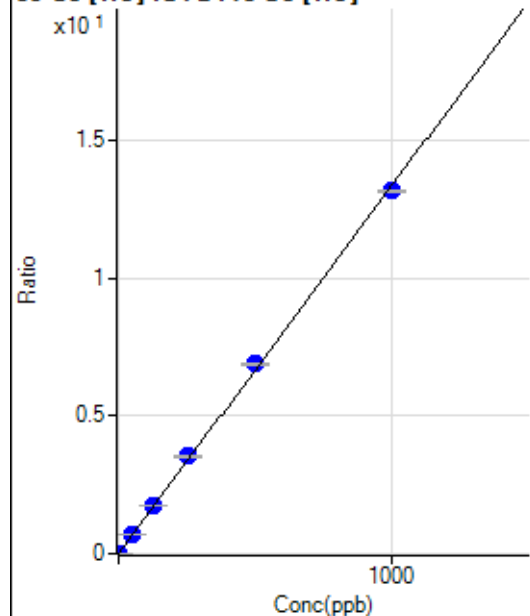
$$y = 1.7416\text{E-}004 * x + 0.0015$$

$$R = 0.9996$$

$$DL = 4.055$$

Weight: <None>

Min Conc: 0

⁵⁹Co [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	37.78	0.0001	P	18.8
2	☐	1.000	0.966	3439.33	0.0130	P	1.9
3	☐	50.000	50.788	181814.75	0.6771	P	1.4
4	☐	125.000	128.608	455146.41	1.7144	P	0.6
5	☐	250.000	265.660	893532.02	3.5412	P	2.3
6	☐	500.000	517.247	1753670.34	6.8947	P	0.8
7	☐	1000.000	986.971	3311787.87	13.1557	P	0.4
8	☐			4847.50	0.0186	P	6.0

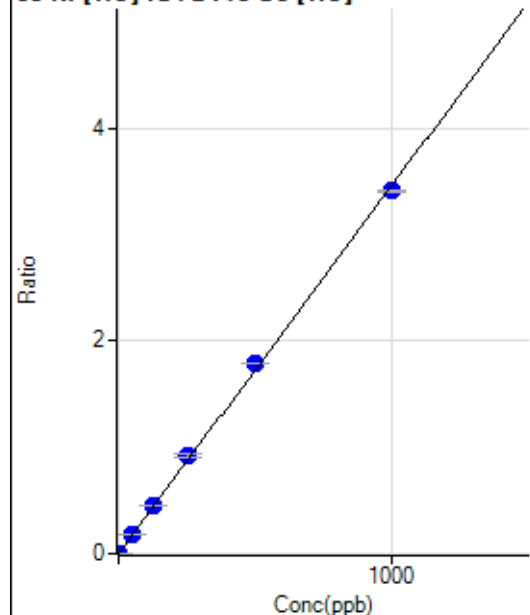
$$y = 0.0133 * x + 1.3591\text{E-}004$$

$$R = 0.9996$$

$$DL = 0.005752$$

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	71.11	0.0003	P	43.4
2	☐	1.000	0.970	955.60	0.0036	P	3.0
3	☐	50.000	51.063	47517.71	0.1770	P	1.2
4	☐	125.000	128.689	118292.81	0.4456	P	0.7
5	☐	250.000	266.587	232810.20	0.9228	P	2.8
6	☐	500.000	517.475	455530.82	1.7909	P	0.5
7	☐	1000.000	986.601	859510.46	3.4143	P	0.4
8	☐			3300.40	0.0127	P	2.1

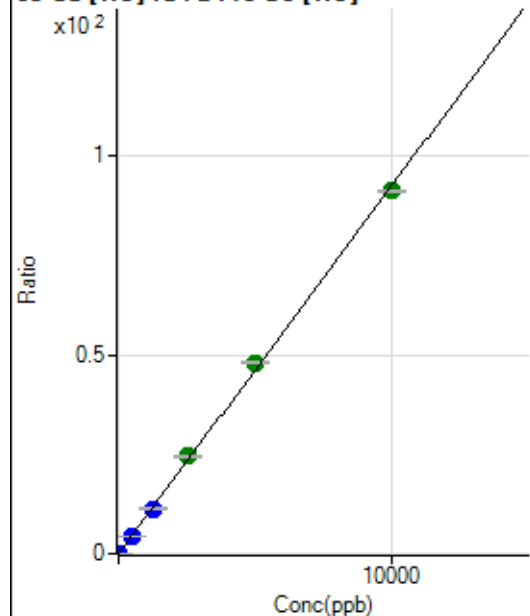
$$y = 0.0035 * x + 2.5738E-004$$

$$R = 0.9996$$

$$DL = 0.09693$$

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	1430.09	0.0052	P	1.1
2	☐	2.000	1.967	6174.69	0.0234	P	2.0
3	☐	500.000	487.147	1212065.41	4.5138	P	1.0
4	☐	1250.000	1224.771	3010783.36	11.3407	P	0.9
5	☐	2500.000	2648.685	6185856.30	24.5195	A	3.2
6	☐	5000.000	5193.499	12227198.85	48.0724	A	1.3
7	☐	10000.000	9869.875	22997153.27	91.3535	A	0.3
8	☐			12106.19	0.0466	P	1.5

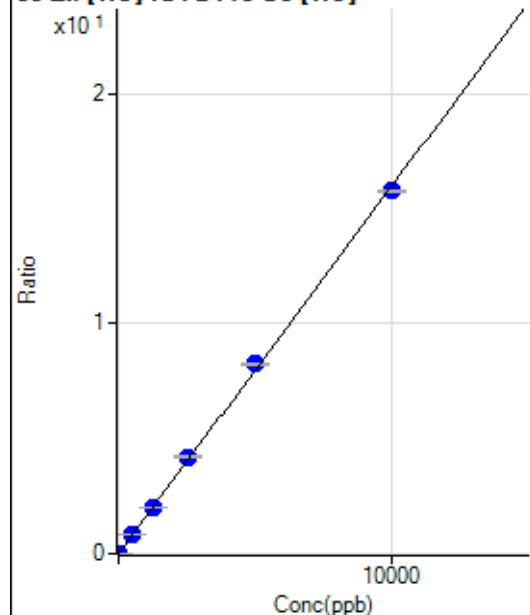
$$y = 0.0093 * x + 0.0052$$

$$R = 0.9996$$

$$DL = 0.01796$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	356.67	0.0013	P	9.7
2	☐	2.000	1.689	1052.27	0.0040	P	7.1
3	☐	500.000	505.449	217089.33	0.8085	P	0.8
4	☐	1250.000	1277.875	542111.69	2.0420	P	0.6
5	☐	2500.000	2638.383	1063327.27	4.2146	P	2.9
6	☐	5000.000	5162.907	2097401.22	8.2461	P	0.7
7	☐	10000.000	9880.194	3972237.55	15.7792	P	0.4
8	☐			4764.15	0.0183	P	0.8

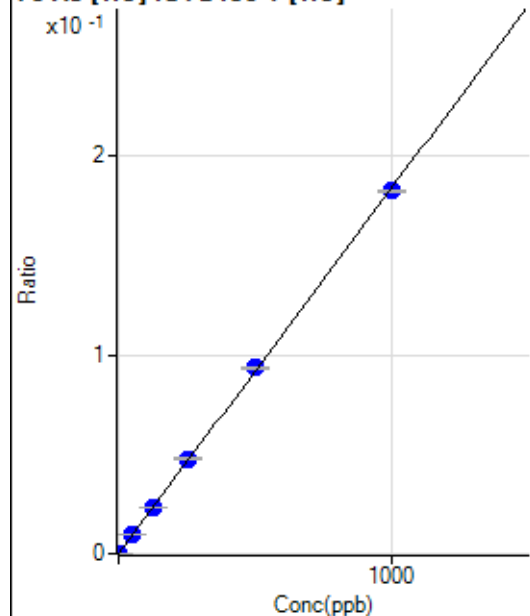
$$y = 0.0016 * x + 0.0013$$

$$R = 0.9997$$

$$DL = 0.2335$$

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	6.17	0.0000	P	75.6
2	☐	1.000	1.016	322.23	0.0002	P	4.5
3	☐	50.000	50.844	16320.28	0.0094	P	1.8
4	☐	125.000	127.169	41091.61	0.0234	P	0.4
5	☐	250.000	259.459	80608.89	0.0477	P	3.2
6	☐	500.000	508.656	160790.70	0.0935	P	1.0
7	☐	1000.000	992.994	310721.56	0.1826	P	0.5
8	☐			129.63	0.0001	P	23.6

$$y = 1.8386E-004 * x + 3.3857E-006$$

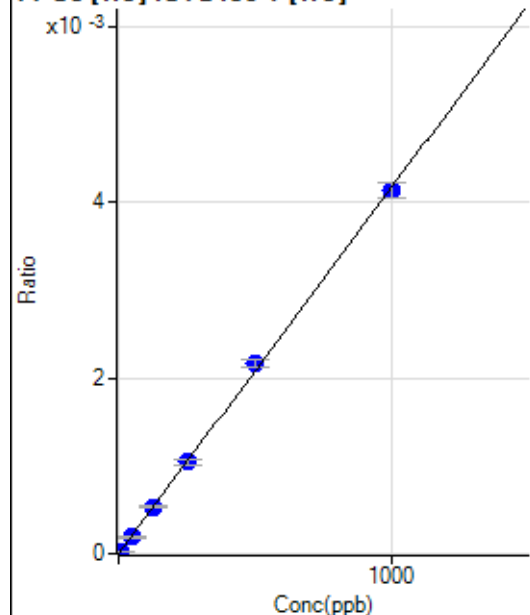
$$R = 0.9999$$

$$DL = 0.04176$$

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	0.00	0.0000	P	
2	☐	5.000	3.786	26.67	0.0000	P	34.0
3	☐	50.000	45.998	334.45	0.0002	P	11.9
4	☐	125.000	128.175	937.82	0.0005	P	1.5
5	☐	250.000	250.508	1762.35	0.0010	P	7.1
6	☐	500.000	517.584	3704.96	0.0022	P	4.0
7	☐	1000.000	990.890	7022.87	0.0041	P	4.3
8	☐			6.67	0.0000	P	100.1

$$y = 4.1637\text{E-}006 * x + 0.0000\text{E+}000$$

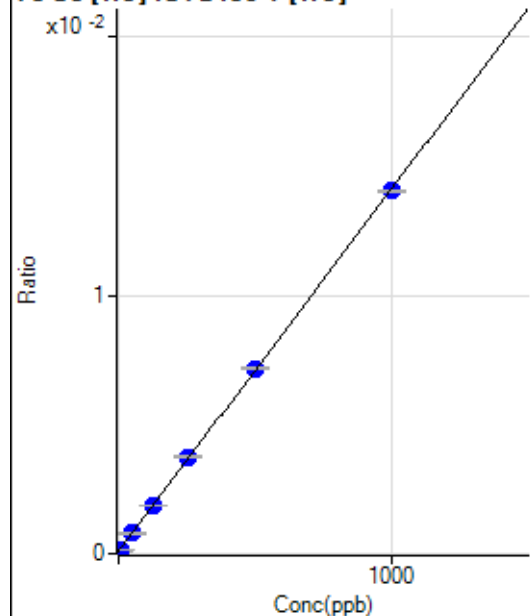
$$R = 0.9997$$

$$DL = 0$$

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	166.67	0.0001	P	12.8
2	☐	5.000	6.068	299.39	0.0002	P	3.7
3	☐	50.000	50.201	1388.35	0.0008	P	4.3
4	☐	125.000	125.921	3264.58	0.0019	P	2.7
5	☐	250.000	261.160	6344.63	0.0038	P	3.3
6	☐	500.000	504.163	12315.74	0.0072	P	1.2
7	☐	1000.000	994.998	23909.18	0.0140	P	0.9
8	☐			160.50	0.0001	P	7.1

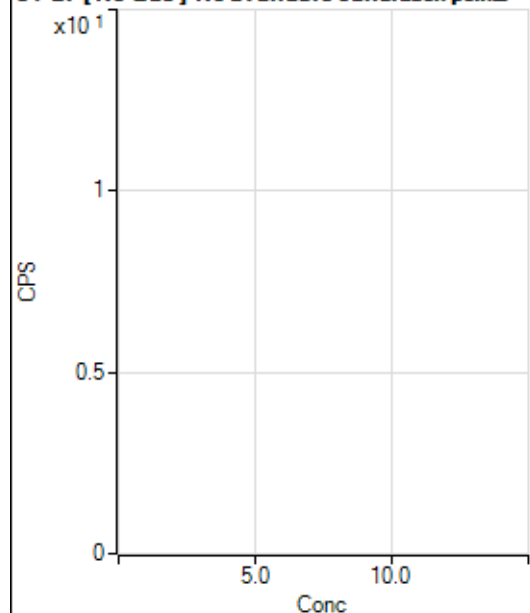
$$y = 1.4028\text{E-}005 * x + 9.1477\text{E-}005$$

$$R = 0.9999$$

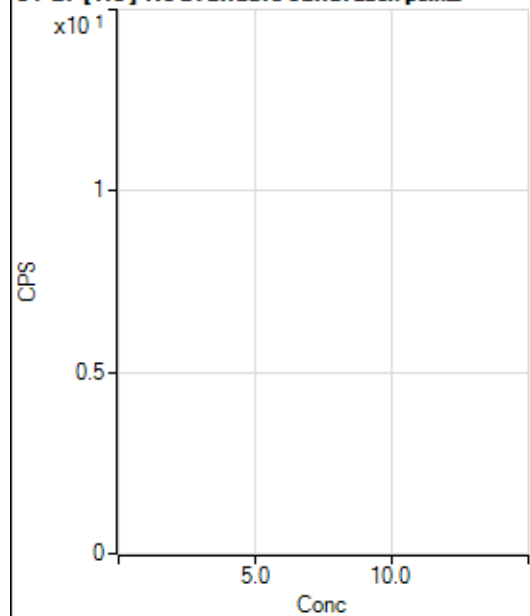
$$DL = 2.507$$

Weight: <None>

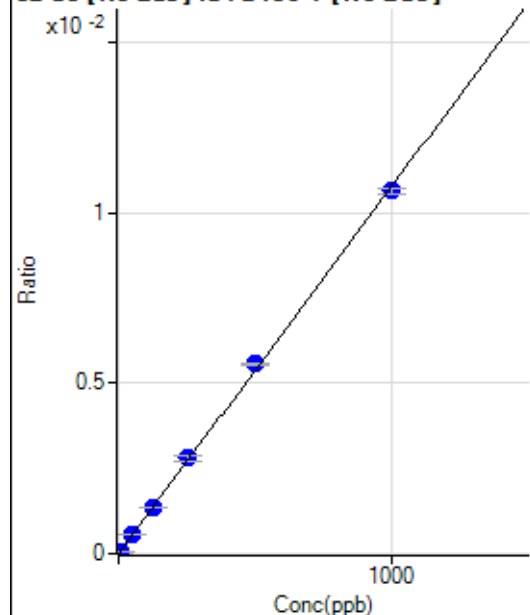
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3528.31		P	1.8
2	☐			3311.59		P	2.4
3	☐			3472.72		P	3.6
4	☐			3392.16		P	4.8
5	☐			3194.89		P	6.8
6	☐			3300.46		P	3.3
7	☐			3208.77		P	7.7
8	☐			3622.76		P	3.2

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			70.07		P	49.5
2	☐			30.03		P	33.3
3	☐			50.05		P	34.6
4	☐			60.06		P	16.7
5	☐			33.37		P	62.4
6	☐			36.70		P	41.7
7	☐			73.41		P	31.5
8	☐			86.75		P	6.7

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	9.16	0.0000	P	1367.
2	☐	5.000	4.149	322.30	0.0000	P	6.6
3	☐	50.000	52.052	4054.79	0.0006	P	1.5
4	☐	125.000	127.952	10202.71	0.0014	P	0.5
5	☐	250.000	259.569	20235.38	0.0028	P	7.7
6	☐	500.000	517.323	40986.37	0.0056	P	0.9
7	☐	1000.000	988.479	78378.95	0.0107	P	1.5
8	☐			11.06	0.0000	P	524.0

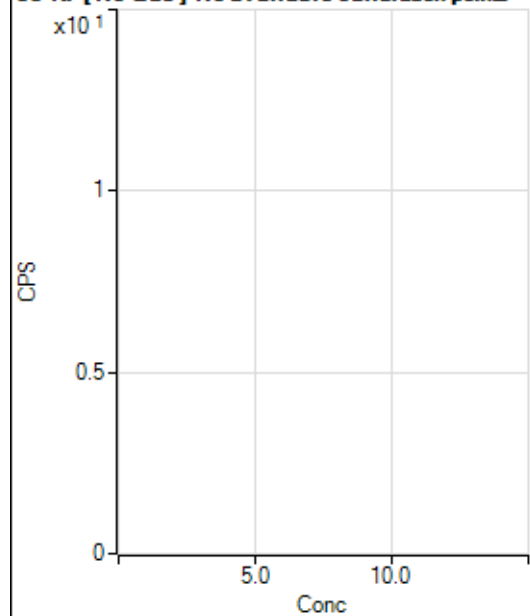
$$y = 1.0776E-005 * x + 1.1404E-006$$

$$R = 0.9997$$

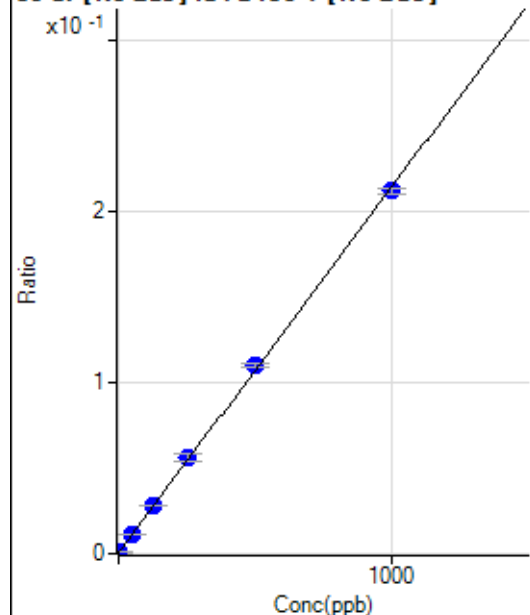
$$DL = 4.341$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐			1956.82		P	6.6
2	☐			1919.03		P	0.9
3	☐			1861.25		P	1.3
4	☐			1983.49		P	1.6
5	☐			1912.37		P	0.9
6	☐			1831.25		P	11.0
7	☐			1795.69		P	4.3
8	☐			1803.46		P	1.8

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	3206.00	0.0004	P	1.9
2	☐	1.000	0.904	4342.42	0.0006	P	2.5
3	☐	50.000	51.626	82692.72	0.0115	P	1.2
4	☐	125.000	129.476	207814.86	0.0281	P	0.8
5	☐	250.000	259.563	404398.60	0.0559	P	7.7
6	☐	500.000	513.759	810593.19	0.1103	P	1.2
7	☐	1000.000	990.089	1560599.36	0.2121	P	1.9
8	☐			11438.16	0.0016	P	0.2

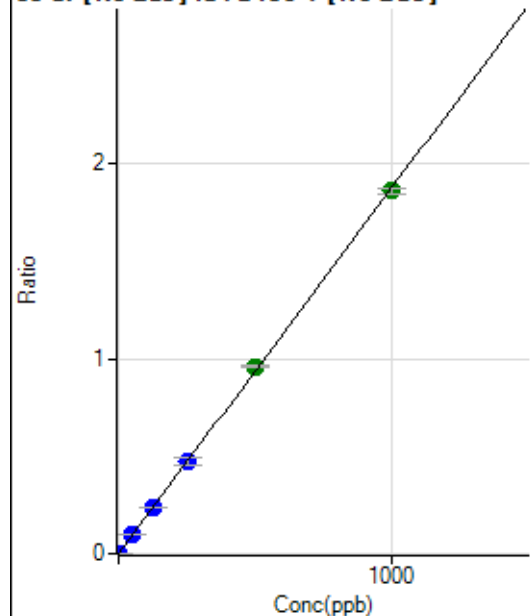
$$y = 2.1381\text{E-}004 * x + 4.2417\text{E-}004$$

R = 0.9998

DL = 0.1133

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	205.56	0.0000	P	23.0
2	☐	1.000	0.938	12547.45	0.0018	P	0.7
3	☐	50.000	50.257	679750.38	0.0942	P	0.7
4	☐	125.000	126.909	1758808.55	0.2379	P	0.7
5	☐	250.000	253.389	3435398.73	0.4749	P	7.1
6	☐	500.000	512.367	7059359.36	0.9603	A	0.4
7	☐	1000.000	992.718	13689559.51	1.8606	A	1.5
8	☐			73498.99	0.0101	P	0.8

$$y = 0.0019 * x + 2.7222\text{E-}005$$

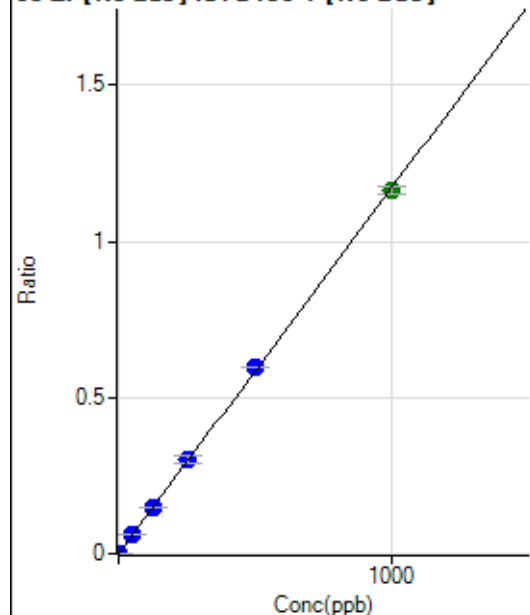
R = 0.9999

DL = 0.01002

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	316.68	0.0000	P	20.0
2	☐	1.000	0.946	8077.48	0.0011	P	2.9
3	☐	50.000	50.247	424486.88	0.0588	P	0.8
4	☐	125.000	128.303	1110336.55	0.1502	P	0.3
5	☐	250.000	257.581	2180630.34	0.3014	P	7.0
6	☐	500.000	510.162	4388609.65	0.5970	P	0.5
7	☐	1000.000	992.599	8545362.43	1.1615	A	2.3
8	☐			3175.42	0.0004	P	3.5

$$y = 0.0012 * x + 4.1959E-005$$

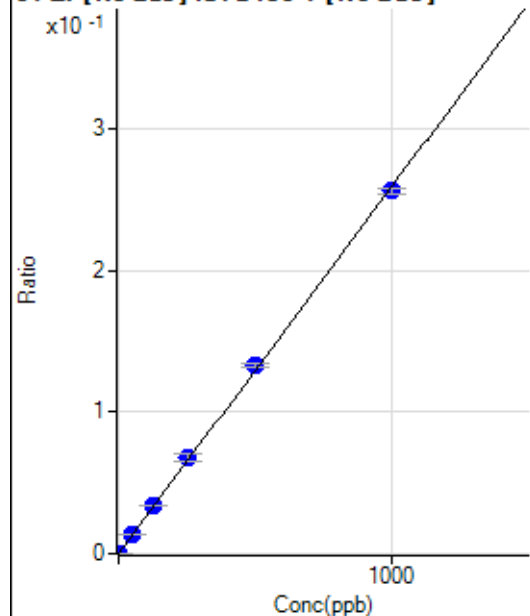
$$R = 0.9999$$

$$DL = 0.02153$$

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	59.5
2	☐	1.000	0.917	1741.82	0.0002	P	6.6
3	☐	50.000	50.181	93691.12	0.0130	P	1.1
4	☐	125.000	129.115	246927.36	0.0334	P	0.3
5	☐	250.000	260.774	487818.17	0.0674	P	7.2
6	☐	500.000	514.250	977557.00	0.1330	P	1.4
7	☐	1000.000	989.658	1882854.34	0.2559	P	1.9
8	☐			680.59	0.0001	P	7.4

$$y = 2.5858E-004 * x + 1.0672E-005$$

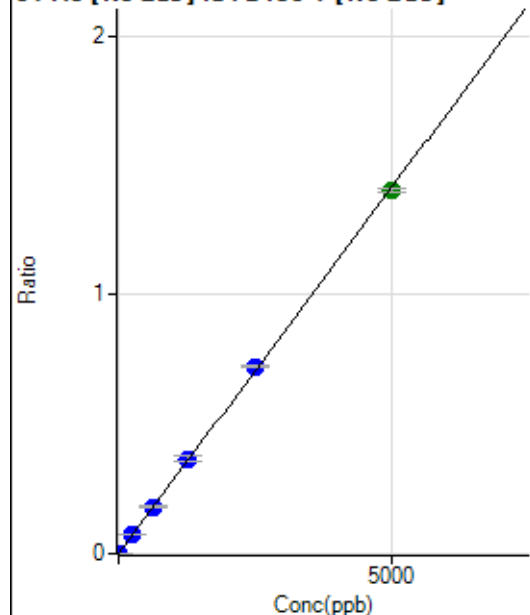
$$R = 0.9998$$

$$DL = 0.07364$$

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	136.11	0.0000	P	22.9
2	☐	5.000	4.670	9406.10	0.0013	P	2.1
3	☐	250.000	252.883	515664.00	0.0715	P	0.4
4	☐	625.000	642.258	1341997.56	0.1815	P	0.6
5	☐	1250.000	1295.179	2647585.26	0.3660	P	7.0
6	☐	2500.000	2560.671	5319148.47	0.7236	P	1.2
7	☐	5000.000	4956.069	10304762.99	1.4005	A	0.9
8	☐			3597.76	0.0005	P	6.8

$$y = 2.8257E-004 * x + 1.7997E-005$$

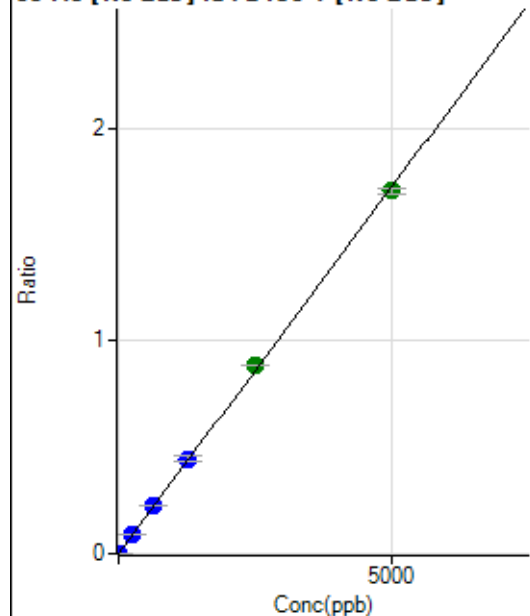
$$R = 0.9998$$

$$DL = 0.04373$$

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	25.00	0.0000	P	32.1
2	☐	5.000	4.778	11599.46	0.0016	P	2.4
3	☐	250.000	255.039	634050.08	0.0879	P	0.9
4	☐	625.000	646.984	1648419.62	0.2229	P	0.5
5	☐	1250.000	1295.352	3229329.50	0.4464	P	6.7
6	☐	2500.000	2570.669	6511781.44	0.8858	A	0.9
7	☐	5000.000	4950.328	12551098.28	1.7058	A	1.3
8	☐			4395.23	0.0006	P	4.3

$$y = 3.4459E-004 * x + 3.2992E-006$$

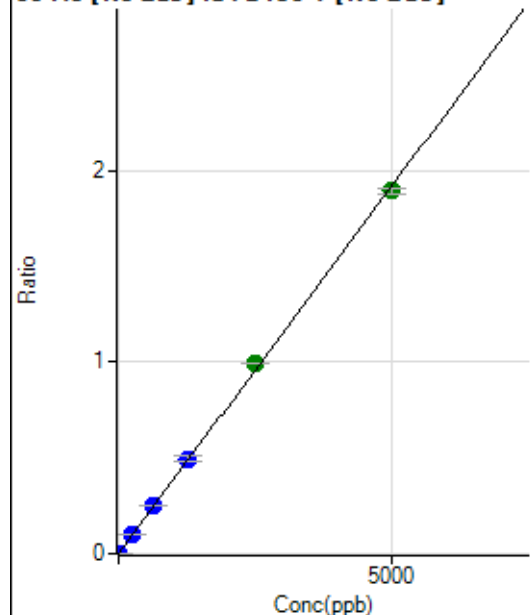
$$R = 0.9998$$

$$DL = 0.009216$$

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	41.66	0.0000	P	35.5
2	☐	5.000	4.846	13114.61	0.0019	P	1.8
3	☐	250.000	255.358	707029.42	0.0980	P	0.2
4	☐	625.000	646.637	1834813.30	0.2482	P	0.4
5	☐	1250.000	1294.978	3595045.48	0.4970	P	7.0
6	☐	2500.000	2591.047	7309539.40	0.9943	A	0.3
7	☐	5000.000	4940.260	13948860.03	1.8959	A	1.8
8	☐			5701.28	0.0008	P	9.3

$$y = 3.8376E-004 * x + 5.5224E-006$$

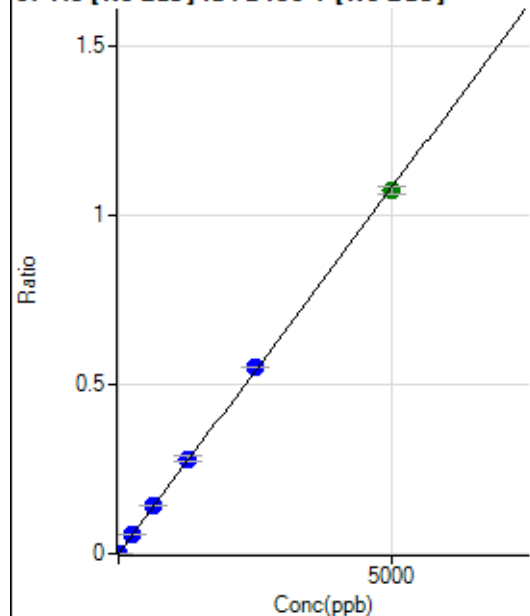
$$R = 0.9997$$

$$DL = 0.01532$$

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	8.33	0.0000	P	1.4
2	☐	5.000	5.009	7618.86	0.0011	P	2.2
3	☐	250.000	257.063	400756.10	0.0555	P	0.6
4	☐	625.000	646.272	1032533.14	0.1397	P	0.5
5	☐	1250.000	1298.471	2029335.18	0.2806	P	7.4
6	☐	2500.000	2548.500	4048196.40	0.5507	P	0.4
7	☐	5000.000	4960.620	7886372.31	1.0719	A	2.0
8	☐			2844.79	0.0004	P	9.8

$$y = 2.1608E-004 * x + 1.1022E-006$$

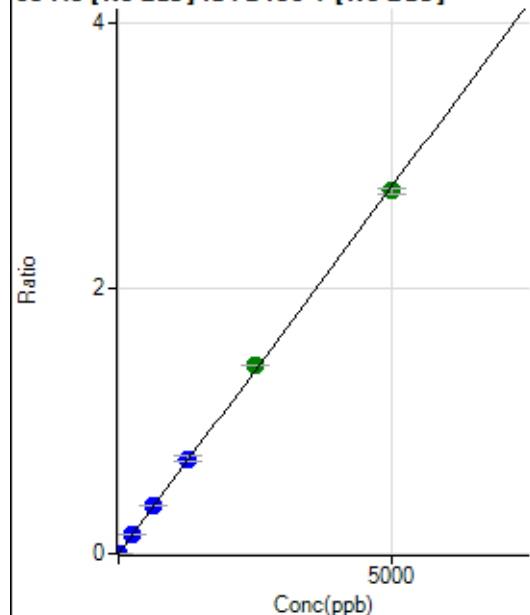
$$R = 0.9999$$

$$DL = 0.0002153$$

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	36.11	0.0000	P	87.1
2	☐	5.000	4.837	18837.80	0.0027	P	2.5
3	☐	250.000	256.958	1025152.24	0.1421	P	0.4
4	☐	625.000	645.981	2641150.58	0.3572	P	0.4
5	☐	1250.000	1295.419	5180370.77	0.7163	P	7.7
6	☐	2500.000	2577.652	10478201.62	1.4254	A	0.4
7	☐	5000.000	4946.849	20126528.05	2.7355	A	1.6
8	☐			7054.70	0.0010	P	14.0

$$y = 5.5298\text{E-}004 * x + 4.7558\text{E-}006$$

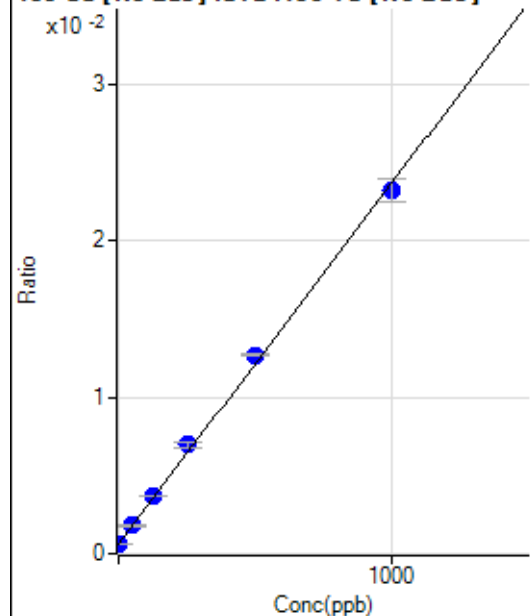
$$R = 0.9998$$

$$DL = 0.02248$$

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	3431.06	0.0006	P	6.9
2	☐	1.000	-0.587	3125.44	0.0006	P	3.4
3	☐	50.000	52.464	9942.61	0.0018	P	4.0
4	☐	125.000	134.900	21238.62	0.0037	P	1.7
5	☐	250.000	276.283	39358.06	0.0070	P	5.6
6	☐	500.000	525.330	74171.12	0.0127	P	1.4
7	☐	1000.000	979.405	139902.84	0.0232	P	6.5
8	☐			3183.77	0.0006	P	1.9

$$y = 2.3062\text{E-}005 * x + 5.9822\text{E-}004$$

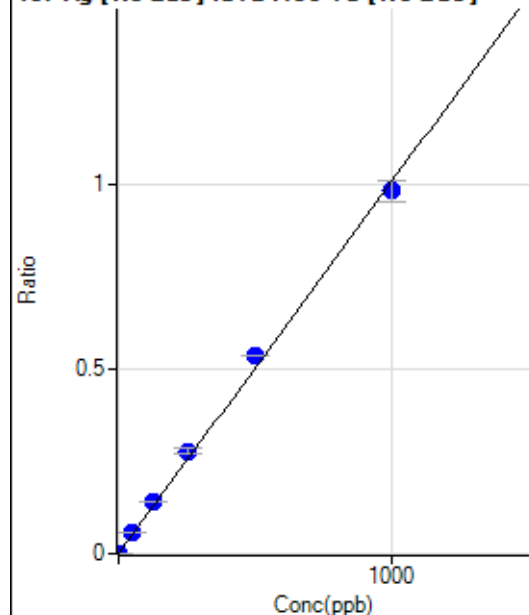
$$R = 0.9991$$

$$DL = 5.383$$

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	55.56	0.0000	P	18.1
2	☐	1.000	1.010	5484.52	0.0010	P	2.2
3	☐	50.000	55.816	308856.21	0.0562	P	1.4
4	☐	125.000	139.438	803320.24	0.1403	P	0.6
5	☐	250.000	276.396	1569685.04	0.2781	P	6.4
6	☐	500.000	531.540	3119922.99	0.5348	P	0.3
7	☐	1000.000	975.536	5922893.93	0.9814	P	6.1
8	☐			2350.25	0.0004	P	0.3

$$y = 0.0010 * x + 9.6912E-006$$

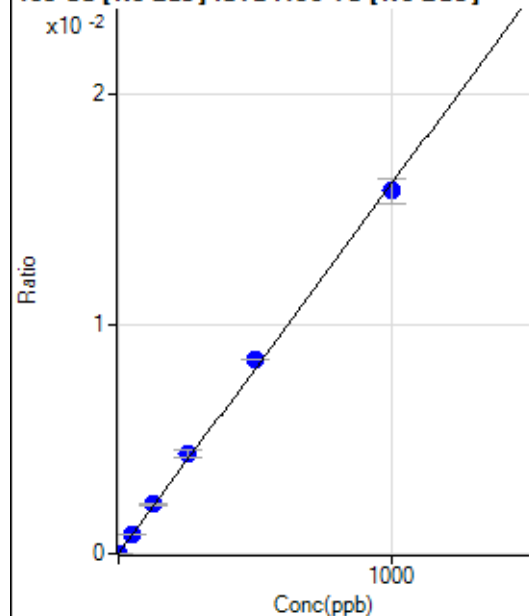
$$R = 0.9988$$

$$DL = 0.005216$$

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	33.33	0.0000	P	37.3
2	☐	1.000	1.398	151.39	0.0000	P	11.0
3	☐	50.000	53.668	4785.58	0.0009	P	1.8
4	☐	125.000	133.826	12374.93	0.0022	P	2.7
5	☐	250.000	271.359	24689.55	0.0044	P	7.9
6	☐	500.000	524.164	49290.62	0.0084	P	0.5
7	☐	1000.000	981.291	95390.69	0.0158	P	7.0
8	☐			133.34	0.0000	P	2.8

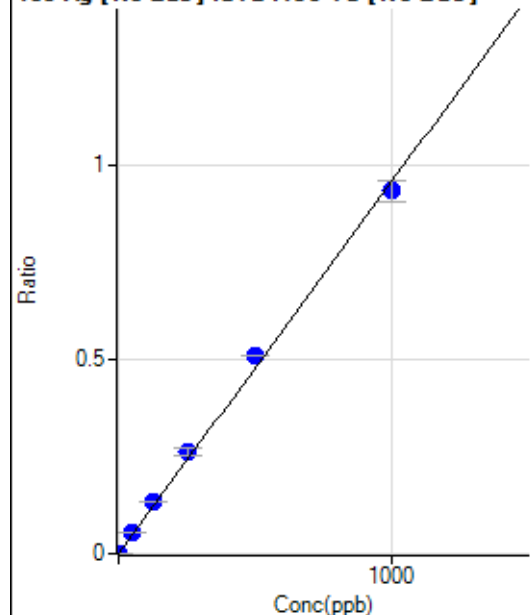
$$y = 1.6107E-005 * x + 5.8041E-006$$

$$R = 0.9993$$

$$DL = 0.4034$$

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	30.56	0.0000	P	31.5
2	☐	1.000	1.003	5162.17	0.0010	P	3.0
3	☐	50.000	55.533	292504.69	0.0532	P	1.2
4	☐	125.000	138.505	759579.95	0.1327	P	0.7
5	☐	250.000	275.227	1487692.14	0.2636	P	6.7
6	☐	500.000	532.058	2972847.16	0.5096	P	0.4
7	☐	1000.000	975.699	5640128.55	0.9344	P	5.8
8	☐			2172.45	0.0004	P	6.7

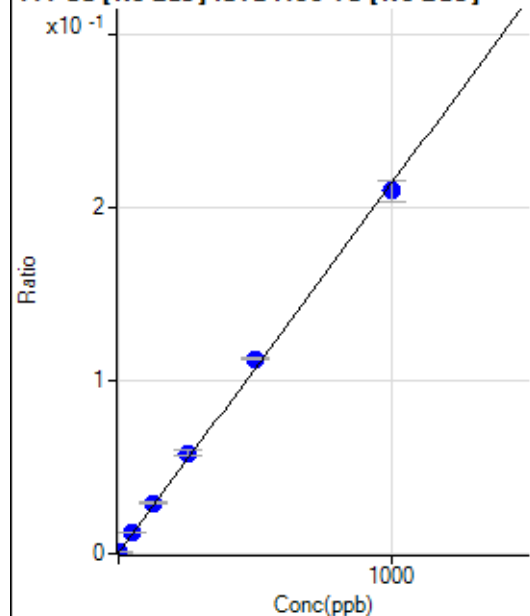
$$y = 9.5771\text{E-}004 * x + 5.3263\text{E-}006$$

$$R = 0.9988$$

$$DL = 0.00526$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	2379.80	0.0004	P	7.4
2	☐	1.000	1.020	3383.30	0.0006	P	3.1
3	☐	50.000	54.213	65992.01	0.0120	P	0.8
4	☐	125.000	135.858	168614.44	0.0294	P	0.3
5	☐	250.000	270.647	328781.32	0.0582	P	6.5
6	☐	500.000	526.169	658393.41	0.1129	P	0.2
7	☐	1000.000	980.186	1266724.90	0.2099	P	5.8
8	☐			2668.66	0.0005	P	1.7

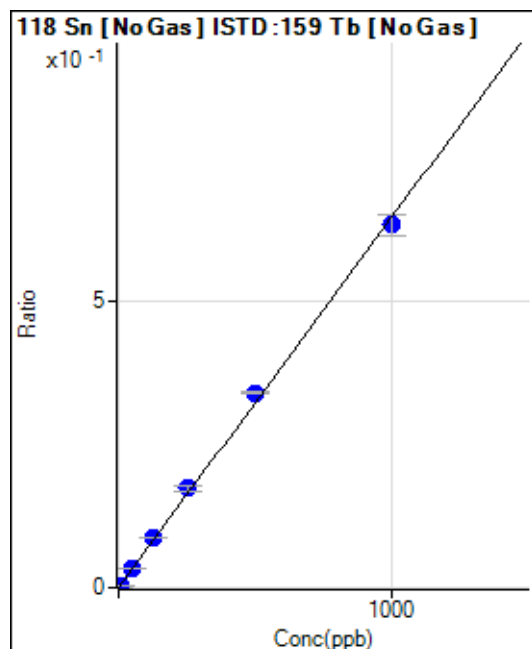
$$y = 2.1369\text{E-}004 * x + 4.1493\text{E-}004$$

$$R = 0.9992$$

$$DL = 0.4295$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	363.90	0.0001	P	16.8
2	☐	5.000	5.211	18303.90	0.0034	P	2.6
3	☐	50.000	53.820	191272.03	0.0348	P	0.4
4	☐	125.000	134.787	498205.75	0.0870	P	0.4
5	☐	250.000	268.949	979571.17	0.1735	P	6.4
6	☐	500.000	526.875	1983078.56	0.3399	P	0.6
7	☐	1000.000	980.410	3817043.79	0.6325	P	6.0
8	☐			2255.80	0.0004	P	2.5

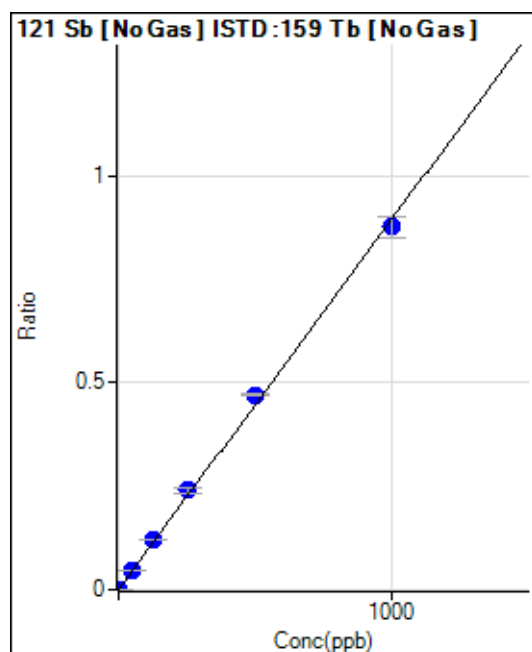
$$y = 6.4503\text{E-}004 * x + 6.3385\text{E-}005$$

$$R = 0.9992$$

$$DL = 0.0496$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	27.78	0.0000	P	69.3
2	☐	2.000	2.000	9592.40	0.0018	P	0.8
3	☐	50.000	53.216	261872.47	0.0476	P	1.1
4	☐	125.000	133.853	685770.54	0.1198	P	0.6
5	☐	250.000	268.508	1356172.13	0.2402	P	6.2
6	☐	500.000	526.931	2750498.11	0.4715	P	0.7
7	☐	1000.000	980.640	5296240.92	0.8774	P	5.5
8	☐			3531.10	0.0006	P	8.0

$$y = 8.9471\text{E-}004 * x + 4.8426\text{E-}006$$

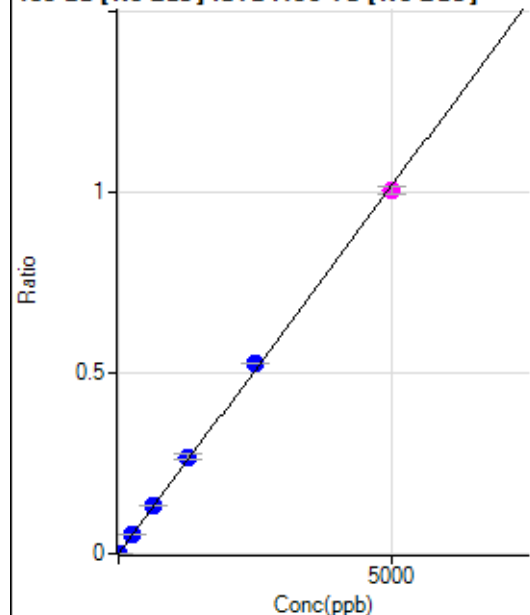
$$R = 0.9992$$

$$DL = 0.01125$$

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	19.45	0.0000	P	25.5
2	☐	10.000	9.713	10590.42	0.0020	P	4.9
3	☐	250.000	260.747	292076.97	0.0531	P	1.6
4	☐	625.000	660.758	770673.47	0.1346	P	0.6
5	☐	1250.000	1317.880	1515235.75	0.2684	P	6.4
6	☐	2500.000	2587.432	3074724.81	0.5270	P	0.3
7	☐	5000.000	4934.307	6076562.64	1.0050	M	2.2
8	☐			1919.63	0.0003	P	3.5

$$y = 2.0368\text{E-}004 * x + 3.3933\text{E-}006$$

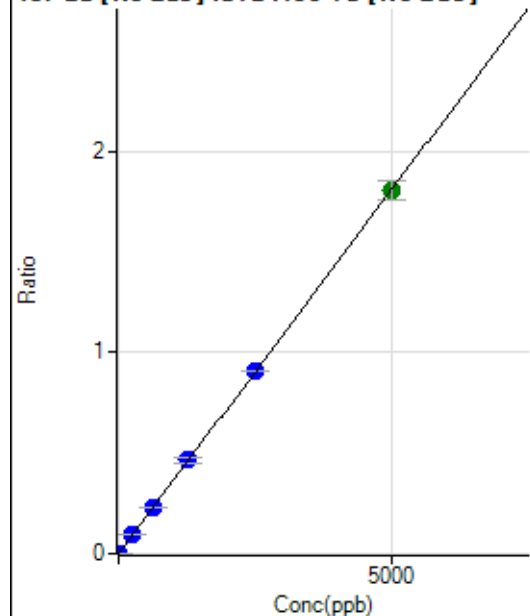
$$R = 0.9997$$

$$DL = 0.01273$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	13.89	0.0000	P	68.6
2	☐	10.000	9.688	18735.30	0.0035	P	0.6
3	☐	250.000	255.832	508708.07	0.0925	P	0.9
4	☐	625.000	640.983	1327070.11	0.2318	P	0.5
5	☐	1250.000	1283.773	2620007.61	0.4642	P	6.4
6	☐	2500.000	2506.926	5288051.51	0.9064	P	0.5
7	☐	5000.000	4985.805	10883762.31	1.8027	A	5.2
8	☐			3272.68	0.0006	P	7.4

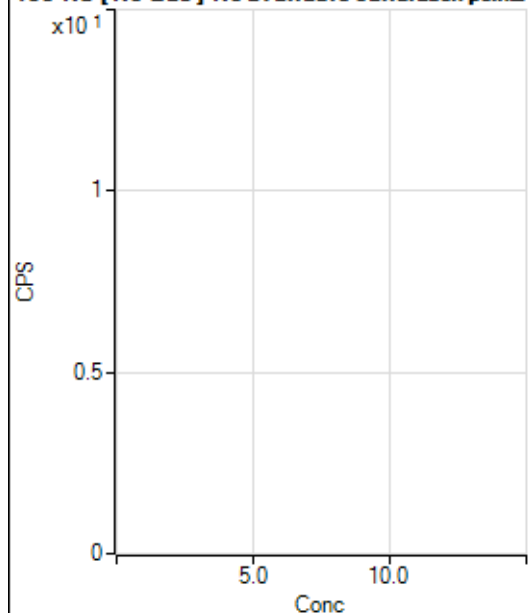
$$y = 3.6156\text{E-}004 * x + 2.4128\text{E-}006$$

$$R = 1.0000$$

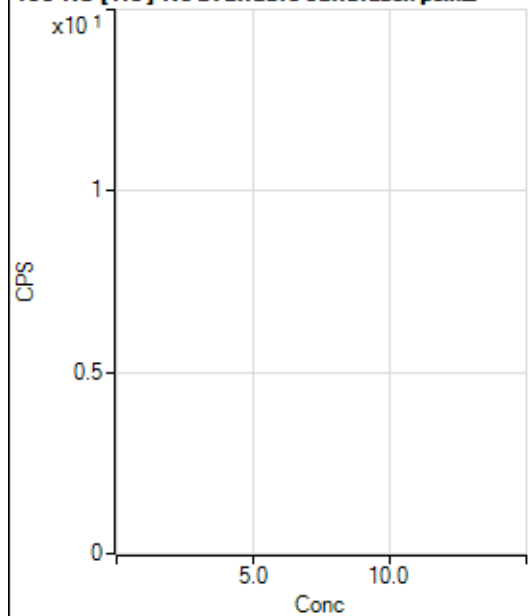
$$DL = 0.01373$$

Weight: <None>

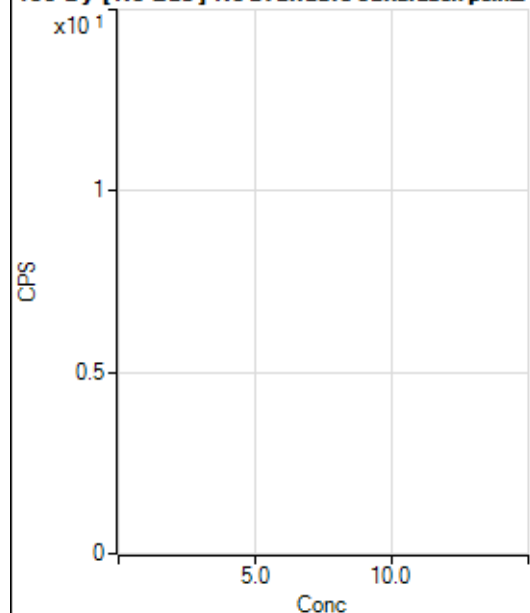
Min Conc: 0

150 Nd [No Gas] No available calibration points

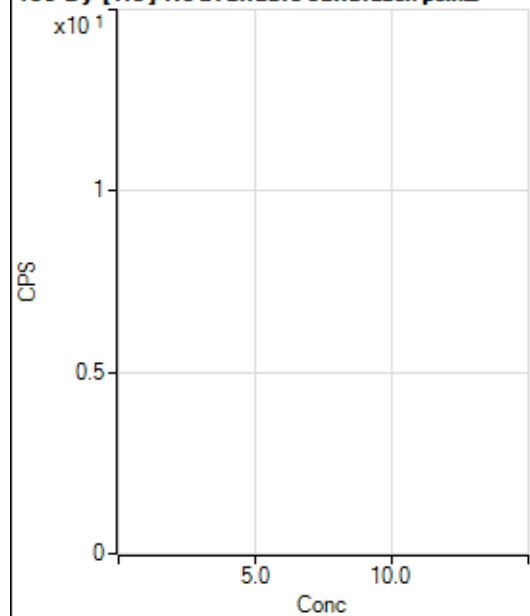
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6.67		P	100.0
2	☐			6.67		P	100.0
3	☐			22.22		P	62.4
4	☐			60.00		P	29.4
5	☐			124.45		P	16.4
6	☐			277.79		P	18.0
7	☐			348.90		P	18.4
8	☐			24.44		P	63.0

150 Nd [He] No available calibration points

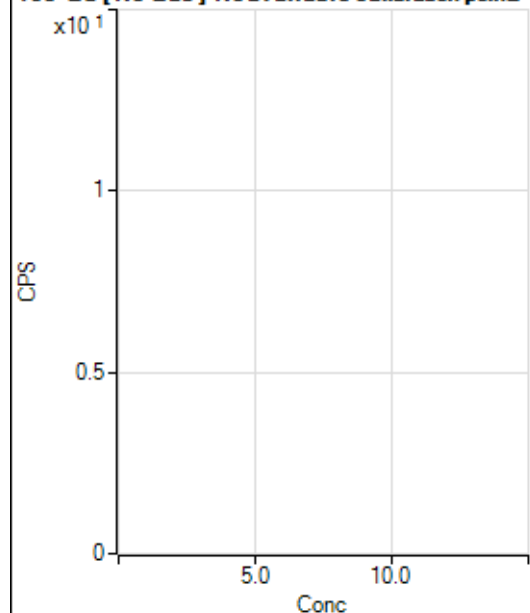
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			0.00		P	
3	☐			6.67		P	0.0
4	☐			17.78		P	54.1
5	☐			32.22		P	59.7
6	☐			62.22		P	15.5
7	☐			82.22		P	16.9
8	☐			17.78		P	28.6

156 Dy [No Gas] No available calibration points

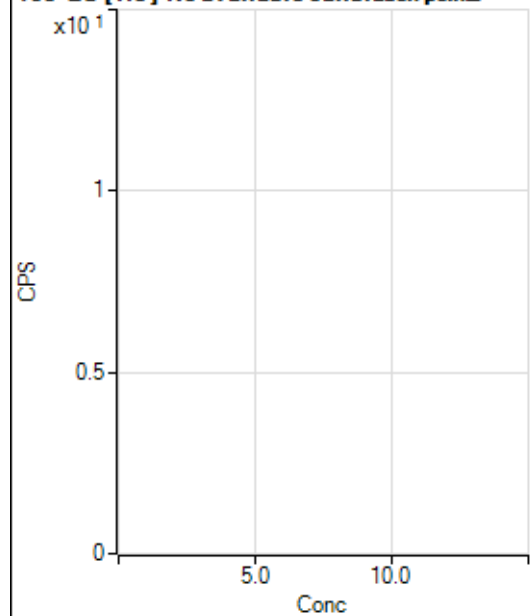
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			11.11		P	173.2
2	☐			22.22		P	78.1
3	☐			11.11		P	43.3
4	☐			47.23		P	56.7
5	☐			66.67		P	33.1
6	☐			138.89		P	17.3
7	☐			175.01		P	20.8
8	☐			1336.21		P	6.2

156 Dy [He] No available calibration points

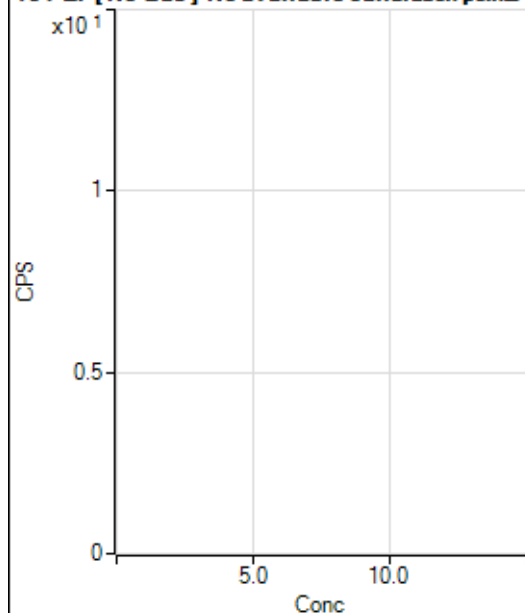
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.56		P	91.6
2	☐			2.22		P	173.2
3	☐			3.33		P	173.2
4	☐			22.22		P	22.9
5	☐			35.55		P	30.1
6	☐			74.44		P	33.9
7	☐			105.56		P	3.6
8	☐			773.37		P	3.3

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

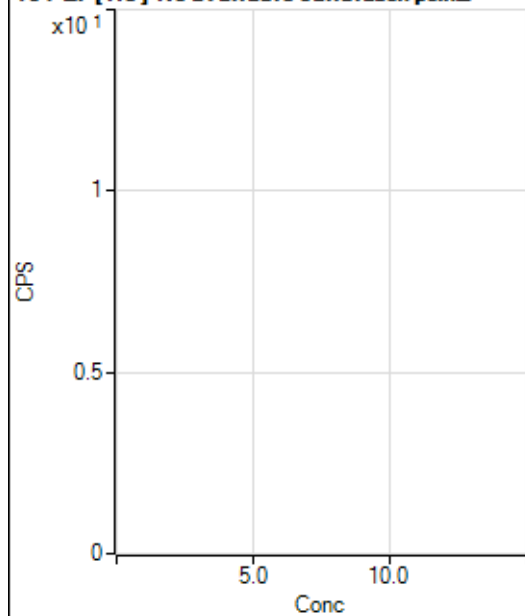
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			44.45		P	57.3
2	☐			50.00		P	44.1
3	☐			58.33		P	28.6
4	☐			36.11		P	35.3
5	☐			80.56		P	21.5
6	☐			127.78		P	37.1
7	☐			152.78		P	22.0
8	☐			1439.00		P	12.0

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			42.22		P	60.3
2	☐			46.67		P	25.8
3	☐			52.22		P	24.2
4	☐			66.67		P	21.8
5	☐			72.22		P	23.2
6	☐			77.78		P	17.3
7	☐			111.11		P	28.8
8	☐			933.38		P	3.5

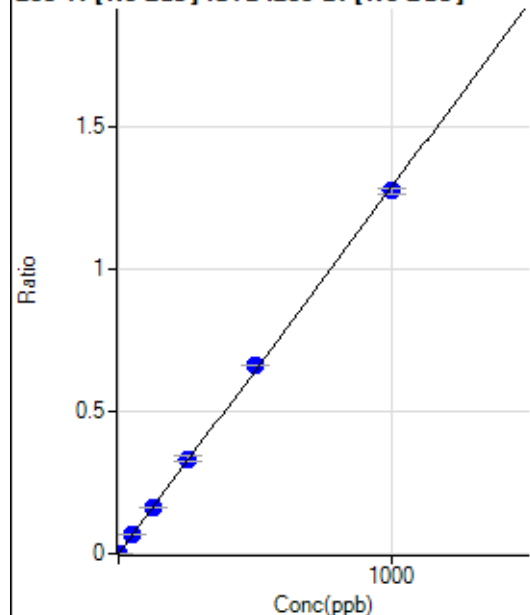
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			38.89		P	32.7
2	☐			25.00		P	57.7
3	☐			36.11		P	58.1
4	☐			22.22		P	78.1
5	☐			47.22		P	27.0
6	☐			63.89		P	30.1
7	☐			72.23		P	46.6
8	☐			230.56		P	11.0

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			20.00		P	60.1
2	☐			14.44		P	13.4
3	☐			16.67		P	20.0
4	☐			21.11		P	9.1
5	☐			22.22		P	62.4
6	☐			25.56		P	32.8
7	☐			36.67		P	18.2
8	☐			113.33		P	15.6

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	255.57	0.0001	P	19.8
2	☐	1.000	0.927	4011.82	0.0013	P	6.0
3	☐	50.000	50.424	210626.26	0.0651	P	1.8
4	☐	125.000	127.971	554557.32	0.1652	P	0.7
5	☐	250.000	258.246	1103134.81	0.3333	P	6.4
6	☐	500.000	514.976	2256560.47	0.6646	P	0.4
7	☐	1000.000	990.058	4378726.05	1.2776	P	1.9
8	☐			2066.88	0.0007	P	20.2

$$y = 0.0013 * x + 7.5234E-005$$

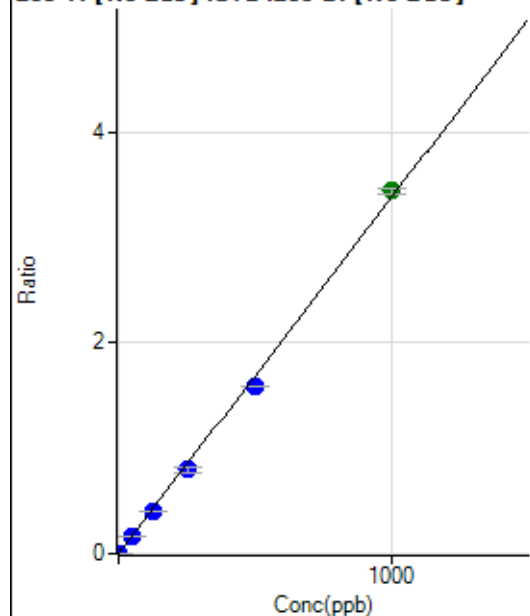
$$R = 0.9998$$

$$DL = 0.03458$$

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	719.48	0.0002	P	9.4
2	☐	1.000	0.853	9753.81	0.0031	P	1.3
3	☐	50.000	46.442	507720.23	0.1570	P	1.8
4	☐	125.000	116.806	1324606.78	0.3946	P	0.4
5	☐	250.000	236.625	2645090.75	0.7992	P	6.4
6	☐	500.000	471.920	5411200.64	1.5937	P	0.1
7	☐	1000.000	1018.586	11788016.41	3.4396	A	1.9
8	☐			4859.36	0.0015	P	13.7

$$y = 0.0034 * x + 2.1179E-004$$

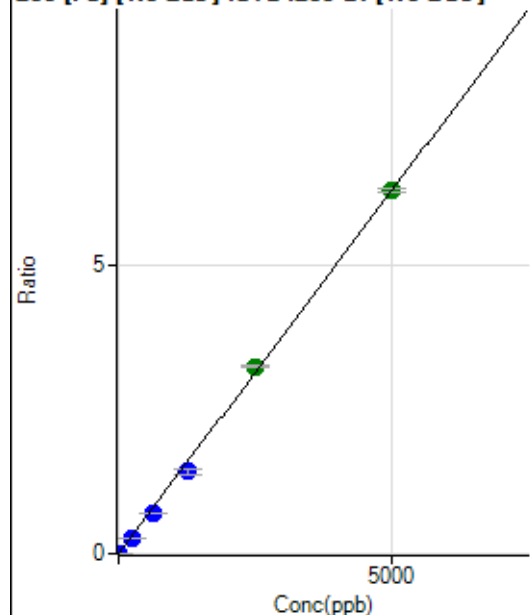
$$R = 0.9993$$

$$DL = 0.01768$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	272.23	0.0001	P	15.4
2	☐	1.000	0.835	3563.50	0.0011	P	2.8
3	☐	250.000	221.500	899717.12	0.2783	P	1.3
4	☐	625.000	559.257	2357769.99	0.7024	P	0.5
5	☐	1250.000	1128.233	4690338.18	1.4170	P	6.0
6	☐	2500.000	2577.023	10988834.62	3.2365	A	0.7
7	☐	5000.000	5001.573	21528808.58	6.2814	A	1.1
8	☐			33709.45	0.0107	P	1.1

$$y = 0.0013 * x + 8.0125E-005$$

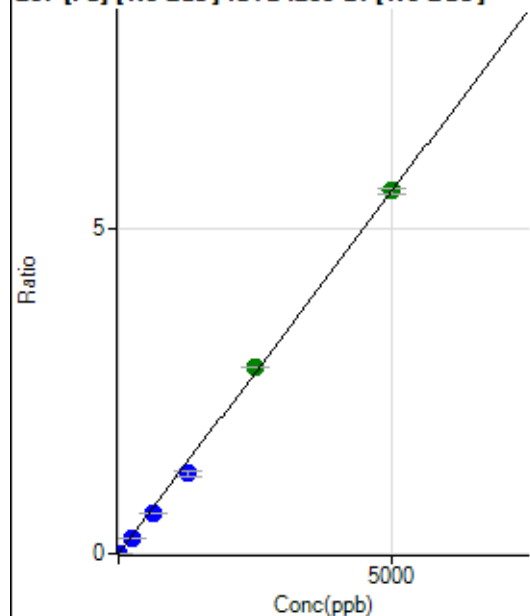
$$R = 0.9995$$

$$DL = 0.02941$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	242.60	0.0001	P	13.1
2	☐	1.000	0.763	2909.63	0.0009	P	4.9
3	☐	250.000	216.303	780195.97	0.2413	P	1.2
4	☐	625.000	548.781	2054454.30	0.6121	P	0.6
5	☐	1250.000	1101.984	4067922.11	1.2290	P	6.2
6	☐	2500.000	2578.249	9762579.27	2.8753	A	0.1
7	☐	5000.000	5009.092	19144533.53	5.5861	A	1.9
8	☐			29195.32	0.0093	P	0.9

$$y = 0.0011 * x + 7.1400E-005$$

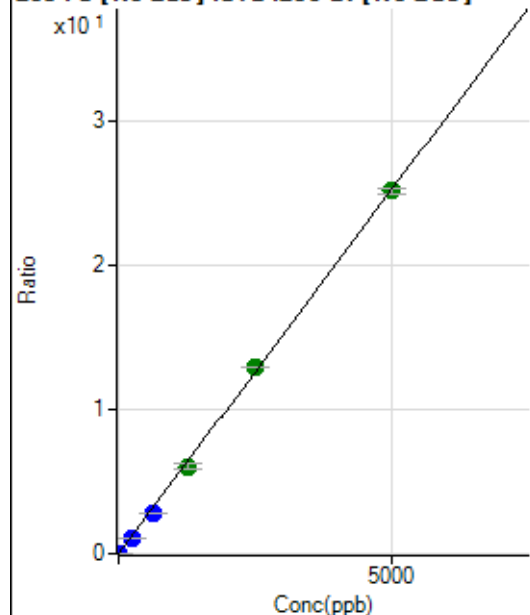
$$R = 0.9993$$

$$DL = 0.02521$$

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	1055.59	0.0003	P	10.3
2	☐	1.000	0.781	13395.41	0.0042	P	2.3
3	☐	250.000	216.588	3527896.31	1.0911	P	1.2
4	☐	625.000	548.686	9275966.53	2.7635	P	0.5
5	☐	1250.000	1201.636	20031768.30	6.0518	A	6.0
6	☐	2500.000	2573.048	43997650.06	12.9582	A	0.0
7	☐	5000.000	4986.777	86072292.66	25.1138	A	1.5
8	☐			132148.13	0.0419	P	0.1

$$y = 0.0050 * x + 3.1068E-004$$

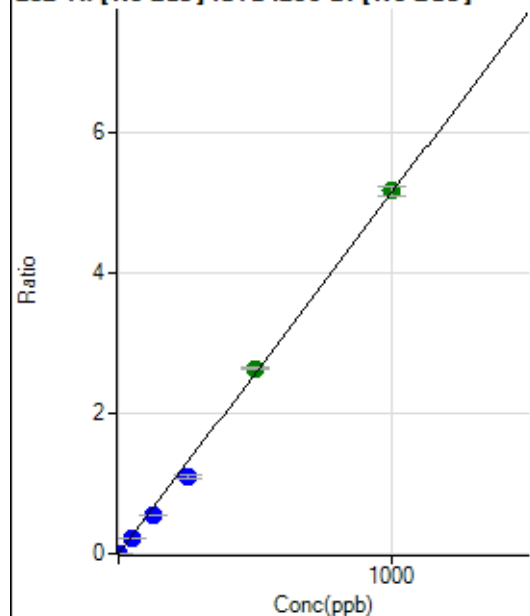
$$R = 0.9997$$

$$DL = 0.01899$$

Weight: <None>

Min Conc: 0

232 Th [No Gas] ISTD :209 Bi [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	177.78	0.0001	P	27.7
2	☐	1.000	0.002	192.60	0.0001	P	30.9
3	☐	50.000	40.773	679332.44	0.2101	P	0.7
4	☐	125.000	104.493	1806910.02	0.5383	P	0.1
5	☐	250.000	212.910	3630202.46	1.0968	P	6.2
6	☐	500.000	513.954	8989077.69	2.6475	A	0.9
7	☐	1000.000	1005.321	17747190.91	5.1786	A	2.3
8	☐			3304.18	0.0010	P	6.2

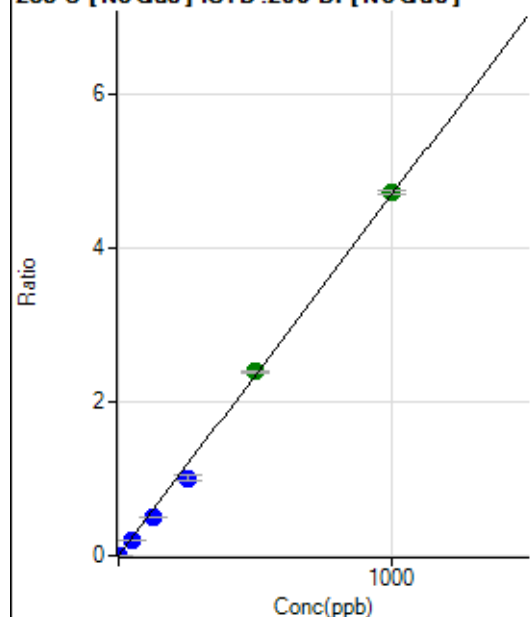
$$y = 0.0052 * x + 5.2318E-005$$

$$R = 0.9991$$

$$DL = 0.008435$$

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	13.89	0.0000	P	34.6
2	☐	1.000	0.786	11625.11	0.0037	P	3.4
3	☐	50.000	41.505	628577.64	0.1944	P	1.9
4	☐	125.000	105.077	1651982.37	0.4922	P	0.2
5	☐	250.000	214.936	3331999.38	1.0067	P	6.3
6	☐	500.000	510.028	8110690.81	2.3888	A	1.3
7	☐	1000.000	1006.667	16159604.01	4.7149	A	1.2
8	☐			2019.66	0.0006	P	1.6

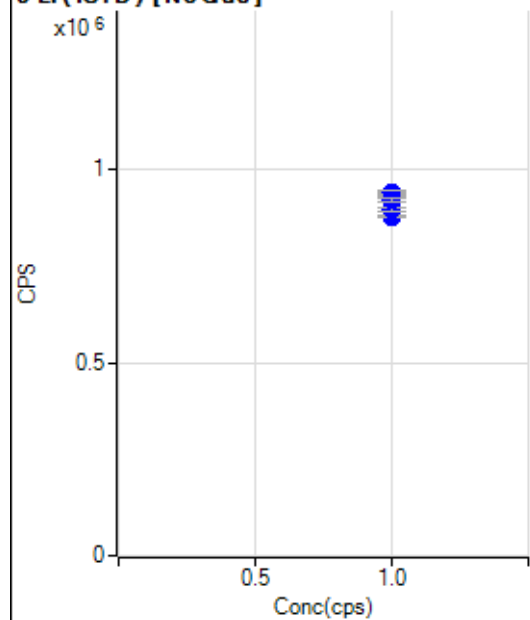
$$y = 0.0047 * x + 4.0874E-006$$

$$R = 0.9992$$

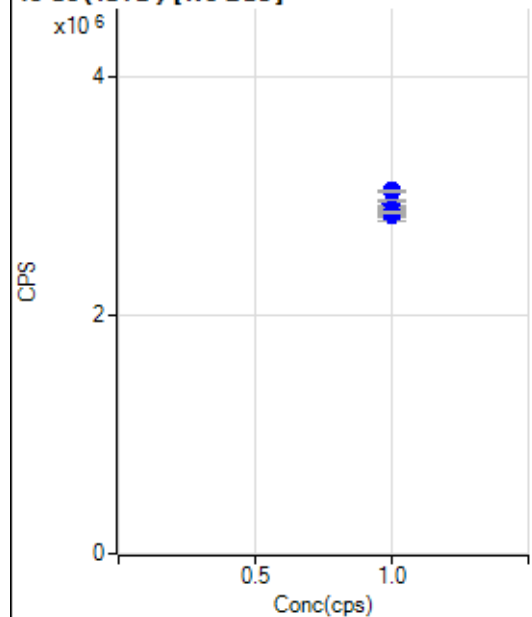
$$DL = 0.0009055$$

Weight: <None>

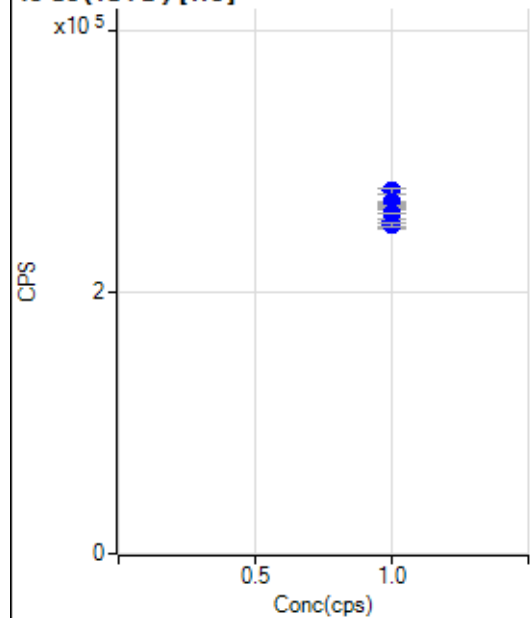
Min Conc: 0

6 Li (ISTD) [No Gas]

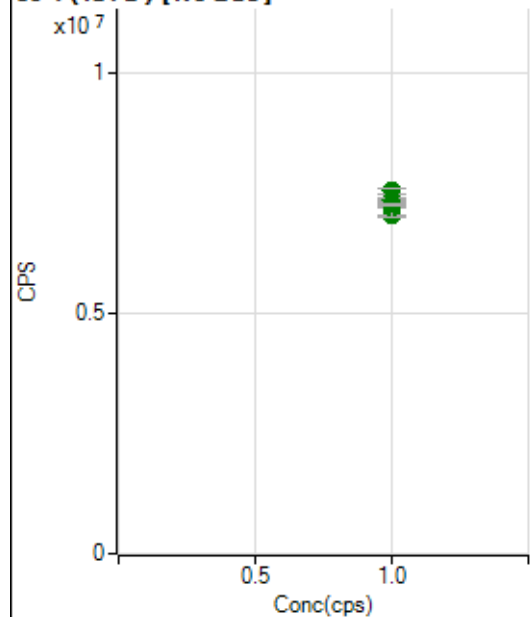
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		922945.39		P	0.9
2	☐	1.000		879725.26		P	0.2
3	☐	1.000		896428.81		P	1.0
4	☐	1.000		934723.92		P	1.4
5	☐	1.000		924296.95		P	4.8
6	☐	1.000		937758.92		P	0.4
7	☐	1.000		940971.55		P	1.3
8	☐	1.000		921593.39		P	1.1

45 Sc (ISTD) [No Gas]

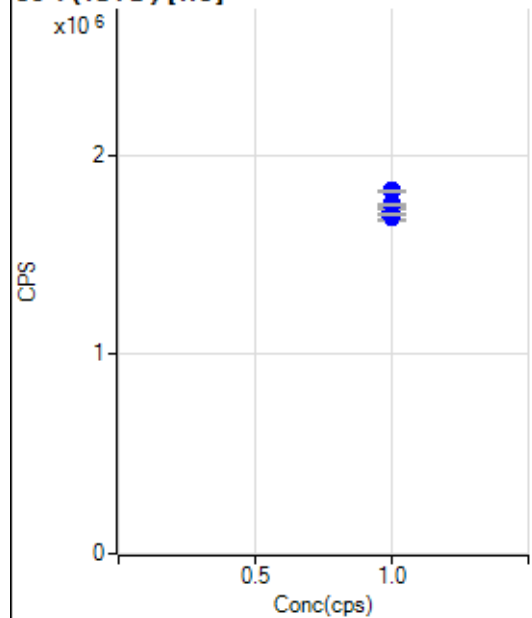
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		3042580.48		P	0.5
2	☐	1.000		2840400.62		P	0.4
3	☐	1.000		2898883.88		P	1.2
4	☐	1.000		2937741.38		P	0.7
5	☐	1.000		2872845.13		P	6.3
6	☐	1.000		2890897.35		P	0.3
7	☐	1.000		2851934.40		P	2.0
8	☐	1.000		2861958.33		P	0.9

45 Sc (ISTD) [He]

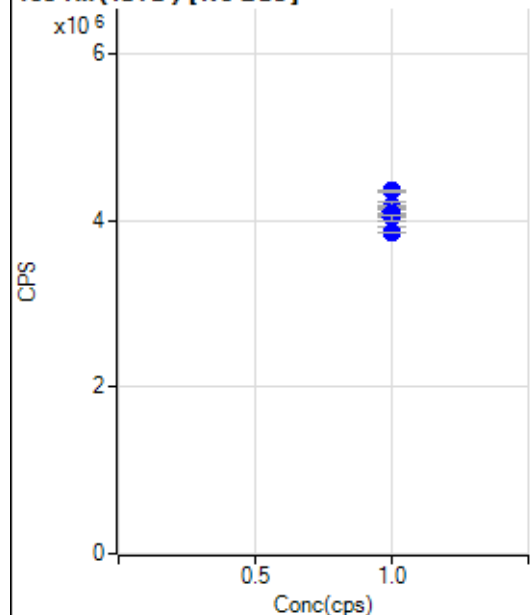
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		277444.01		P	1.5
2	☐	1.000		264333.88		P	1.4
3	☐	1.000		268533.45		P	0.8
4	☐	1.000		265492.38		P	0.6
5	☐	1.000		252421.78		P	2.5
6	☐	1.000		254359.13		P	0.6
7	☐	1.000		251743.05		P	1.0
8	☐	1.000		259937.71		P	0.1

89 Y (ISTD) [No Gas]

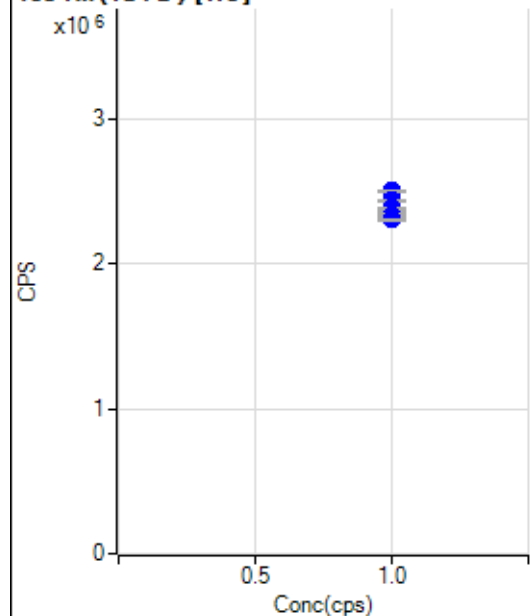
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7558485.79		A	1.4
2	☐	1.000		7031074.97		A	0.7
3	☐	1.000		7214504.13		A	0.3
4	☐	1.000		7393729.75		A	0.2
5	☐	1.000		7256431.35		A	6.7
6	☐	1.000		7351214.89		A	0.5
7	☐	1.000		7358618.92		A	1.4
8	☐	1.000		7286865.66		A	0.5

89 Y (ISTD) [He]

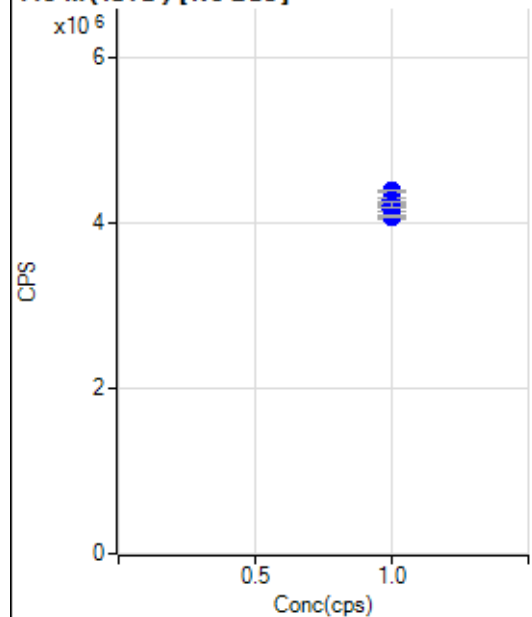
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1820978.79		P	0.8
2	☐	1.000		1695618.05		P	1.4
3	☐	1.000		1745415.15		P	1.2
4	☐	1.000		1757180.04		P	0.4
5	☐	1.000		1690478.05		P	2.4
6	☐	1.000		1719281.16		P	0.8
7	☐	1.000		1701888.67		P	0.8
8	☐	1.000		1754648.64		P	0.7

103 Rh (ISTD) [No Gas]

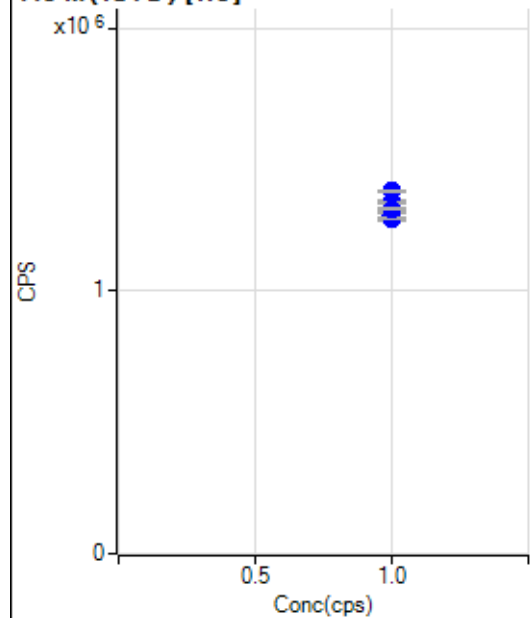
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		4359176.08		P	0.3
2	☐	1.000		4046674.97		P	0.6
3	☐	1.000		4108317.40		P	1.3
4	☐	1.000		4178170.77		P	0.7
5	☐	1.000		4078075.32		P	6.8
6	☐	1.000		4087466.19		P	0.5
7	☐	1.000		4032803.20		P	1.3
8	☐	1.000		3864040.57		P	0.3

103 Rh (ISTD) [He]

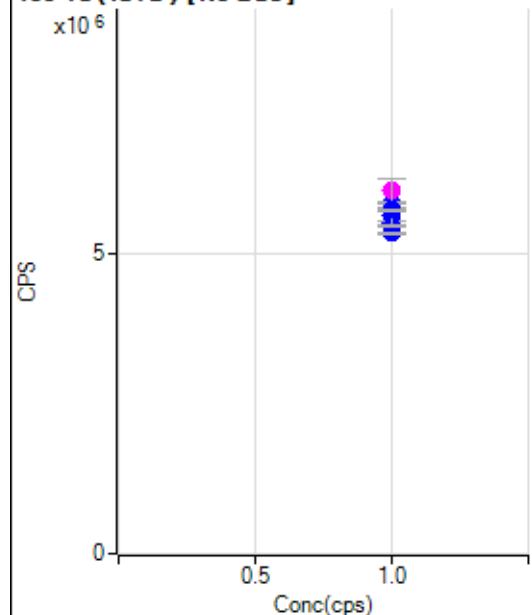
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		2502810.57		P	0.4
2	☐	1.000		2374380.59		P	1.5
3	☐	1.000		2435003.19		P	0.4
4	☐	1.000		2430654.32		P	0.4
5	☐	1.000		2341276.49		P	2.0
6	☐	1.000		2384251.21		P	0.8
7	☐	1.000		2338660.47		P	0.7
8	☐	1.000		2303425.59		P	1.0

115 In (ISTD) [No Gas]

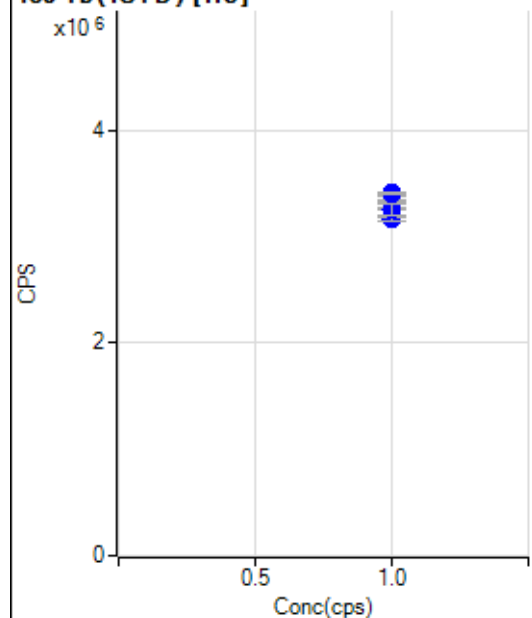
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4391497.03		P	0.3
2	☐	1.000		4083199.54		P	0.5
3	☐	1.000		4174157.92		P	1.2
4	☐	1.000		4286744.88		P	1.0
5	☐	1.000		4177153.70		P	6.5
6	☐	1.000		4221136.77		P	0.3
7	☐	1.000		4218004.39		P	1.4
8	☐	1.000		4078765.44		P	0.5

115 In (ISTD) [He]

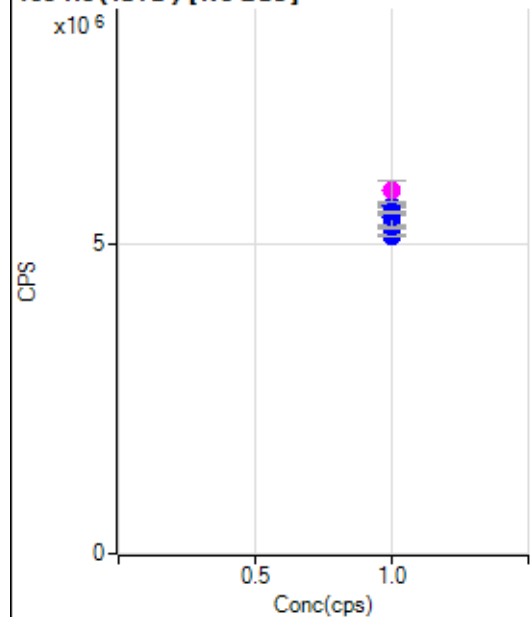
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1380347.96		P	0.7
2	☐	1.000		1303316.43		P	1.5
3	☐	1.000		1336774.69		P	1.0
4	☐	1.000		1334084.69		P	0.3
5	☐	1.000		1285804.57		P	2.8
6	☐	1.000		1309346.68		P	0.7
7	☐	1.000		1276698.38		P	1.1
8	☐	1.000		1312652.71		P	0.7

159 Tb (ISTD) [No Gas]

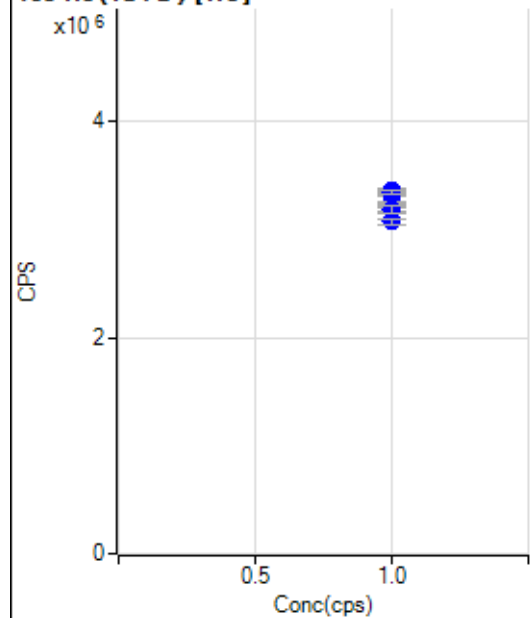
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5737388.52		P	0.8
2	☐	1.000		5345110.62		P	0.8
3	☐	1.000		5499818.74		P	1.3
4	☐	1.000		5726215.05		P	0.8
5	☐	1.000		5659599.85		P	6.2
6	☐	1.000		5834176.37		P	0.4
7	☐	1.000		6050121.44		M	6.2
8	☐	1.000		5724558.80		P	0.3

159 Tb (ISTD) [He]

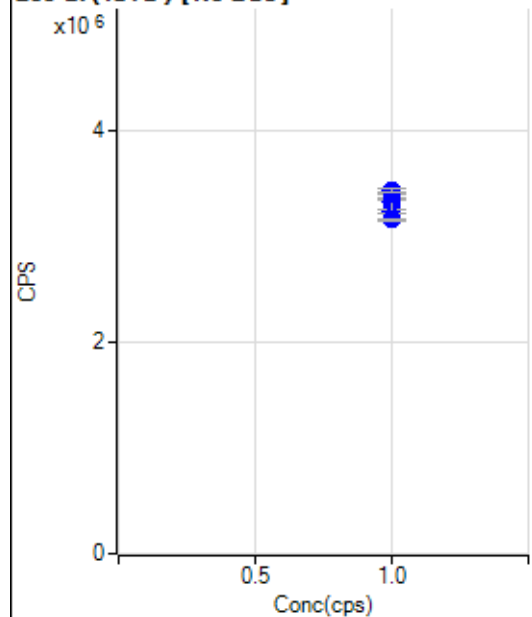
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3312082.90		P	0.7
2	☐	1.000		3160365.34		P	1.4
3	☐	1.000		3258816.79		P	0.4
4	☐	1.000		3333064.29		P	0.8
5	☐	1.000		3252793.81		P	3.1
6	☐	1.000		3401684.01		P	1.0
7	☐	1.000		3408201.09		P	0.7
8	☐	1.000		3408649.15		P	0.4

165 Ho (ISTD) [No Gas]

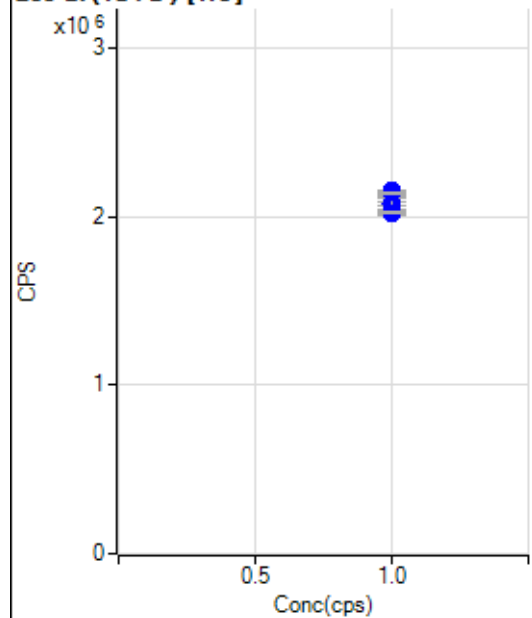
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5489628.25		P	0.2
2	☐	1.000		5124388.05		P	0.7
3	☐	1.000		5262687.56		P	1.3
4	☐	1.000		5485055.26		P	0.9
5	☐	1.000		5426754.95		P	6.2
6	☐	1.000		5604986.72		P	0.7
7	☐	1.000		5846639.43		M	5.6
8	☐	1.000		5513281.86		P	0.6

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3227842.56		P	0.5
2	☐	1.000		3072455.40		P	1.7
3	☐	1.000		3184493.81		P	1.1
4	☐	1.000		3254552.80		P	0.3
5	☐	1.000		3191336.65		P	2.4
6	☐	1.000		3329295.47		P	1.0
7	☐	1.000		3360101.37		P	1.0
8	☐	1.000		3346455.96		P	0.8

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3397431.03		P	0.1
2	☐	1.000		3155791.86		P	0.5
3	☐	1.000		3233865.64		P	1.5
4	☐	1.000		3356639.78		P	0.4
5	☐	1.000		3317596.06		P	5.6
6	☐	1.000		3395354.47		P	0.3
7	☐	1.000		3427649.05		P	1.2
8	☐	1.000		3152113.42		P	1.1

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2120611.24		P	1.1
2	☐	1.000		2022156.43		P	1.7
3	☐	1.000		2076950.58		P	1.1
4	☐	1.000		2123553.41		P	0.5
5	☐	1.000		2076059.64		P	3.2
6	☐	1.000		2155445.18		P	0.6
7	☐	1.000		2145151.98		P	0.4
8	☐	1.000		2027407.40		P	0.2

US EPA Tune Check Sample Report

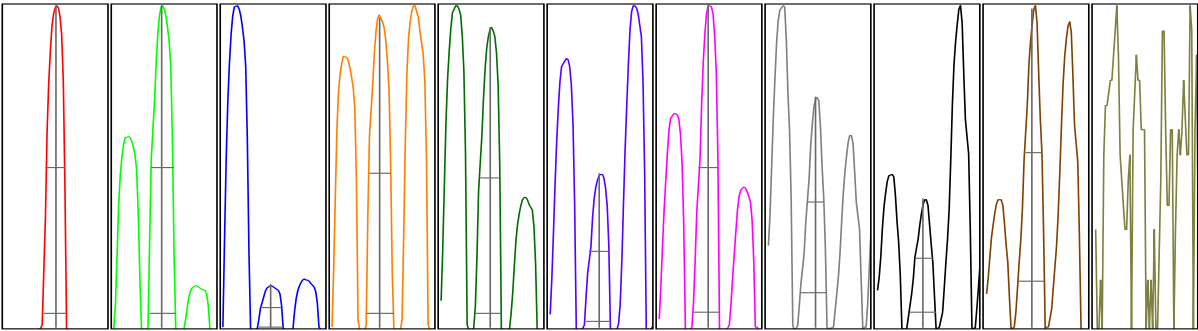
Batch Folder C:\Agilent\ICPMH\1\DATA\P7011521MS.b
Report Comment
Instrument Name G8403A JP14410463

[No Gas]

Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)	RSD% (Flag)
9	3194	1.35	5.00	
24	44921	0.51	5.00	
25	5966	0.81	5.00	
26	7037	1.28	5.00	
59	9763	0.59	5.00	
113	5678	0.51	5.00	
115	17688	1.77	5.00	
206	6692	0.87	5.00	
207	5962	0.91	5.00	
208	14040	0.72	5.00	
220	0	26.15		

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
9	3237	3206	3230	3140	3160
24	45325	44831	44860	44769	44819
25	6046	5979	5940	5932	5936
26	7189	6962	7015	6980	7038
59	9831	9807	9751	9685	9742
113	5712	5682	5698	5645	5651
115	17166	17681	17745	17878	17972
206	6750	6738	6652	6613	6704
207	6040	5976	5897	5928	5968
208	14207	14042	13971	13949	14033
220	0	0	0	0	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	5938	9.05	8.9 - 9.1		0.689	0.900	
24	76622	23.95	23.9 - 24.1		0.781	0.900	
25	10275	24.95	24.9 - 25.1		0.738	0.900	
26	11761	25.95	25.9 - 26.1		0.780	0.900	
59	17200	59.00	58.9 - 59.1		0.763	0.900	
113	10262	113.00	112.9 - 113.1		0.738	0.900	
115	32170	115.00	114.9 - 115.1		0.764	0.900	
206	13151	205.95	205.9 - 206.1		0.750	0.900	
207	10997	206.90	206.9 - 207.1		0.752	0.900	
208	27103	207.90	207.9 - 208.1		0.764	0.900	
220			-				

X% = 5 Integration Time [sec] = 0.1 Acquisition Time [sec] = 256.8 Y Axis = Linear

Tune Parameters

Plasma Paramters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
RF Power	1600	W	Carrier Gas	0.62	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		0.40 L/min

Lenses Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Extract 1	0.0	V	Omega Lens	11.0	V	Deflect	14.2	V
Extract 2	-170.0	V	Cell Entrance	-30	V	Plate Bias	-35	V
Omega Bias	-75	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	3837	0.87	
89	194624	0.24	
205	5647	0.34	

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
59	3853	3847	3824	3875	3787
89	195150	194130	194478	195076	194284
205	5664	5639	5627	5672	5635

Integration Time [sec] = 0.1

Tune Parameters

Plasma Paramters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
RF Power	1600	W	Carrier Gas	0.62	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		0.40 L/min

Lenses Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Extract 1	0.0	V	Omega Lens	11.3	V	Deflect	3.0	V
Extract 2	-170.0	V	Cell Entrance	-40	V	Plate Bias	-60	V
Omega Bias	-120	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	3.9	mL/min	OctP RF	200	V			