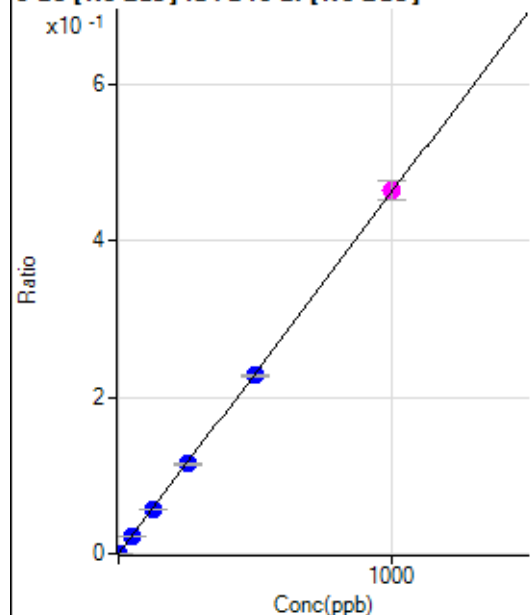


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8052021-MS.b\
Analysis File: P8052021-MS.batch.bin
DA Date-Time: 2021-05-20 23:49:21
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2021-05-20 14:34:01
2	005CAL.S.d	S01	2021-05-20 14:36:59
3	008CAL.S.d	S02	2021-05-20 14:45:58
4	009CAL.S.d	S03	2021-05-20 14:48:56
5	010CAL.S.d	S04	2021-05-20 14:51:56
6	011CAL.S.d	S05	2021-05-20 14:54:55
7	012CAL.S.d	S06	2021-05-20 14:57:55
8	013CAL.S.d	S07	2021-05-20 15:00:54
9	014CAL.S.d	S08	2021-05-20 15:03:54

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	19.33	0.0000	P	37.0
2	☐	0.100	0.114	136.64	0.0001	P	7.0
3	☐	1.000	1.020	1107.83	0.0005	P	6.5
4	☐	50.000	49.370	52168.52	0.0228	P	2.6
5	☐	125.000	122.160	129551.15	0.0565	P	1.7
6	☐	250.000	249.080	256198.55	0.1151	P	1.4
7	☐	500.000	492.782	510298.86	0.2277	P	0.4
8	☐	1000.000	1004.225	1034654.98	0.4640	M	5.3
9	☐			113.31	0.0001	P	16.5

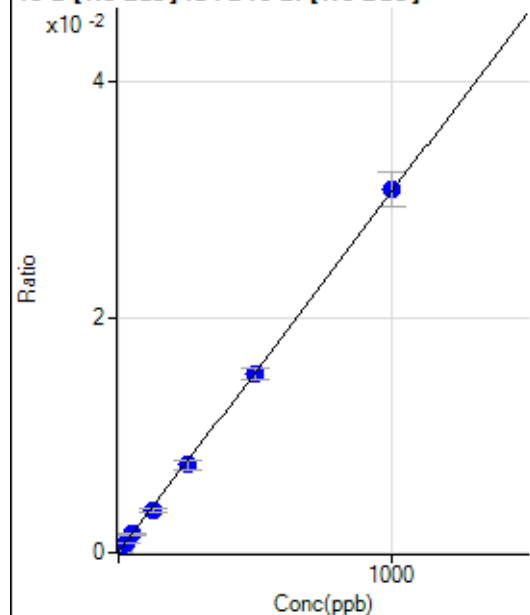
$$y = 4.6208\text{E-}004 * x + 8.5592\text{E-}006$$

$$R = 1.0000$$

$$DL = 0.02058$$

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	92.65	0.0000	P	15.8
2	☐	2.500	1.862	217.96	0.0001	P	5.1
3	☐	25.000	24.737	1839.76	0.0008	P	10.5
4	☐	50.000	49.413	3549.74	0.0016	P	10.8
5	☐	125.000	114.936	8165.35	0.0036	P	11.0
6	☐	250.000	243.000	16642.82	0.0075	P	10.2
7	☐	500.000	493.584	33963.06	0.0151	P	6.5
8	☐	1000.000	1006.253	68742.88	0.0308	P	9.6
9	☐			9500.57	0.0046	P	9.7

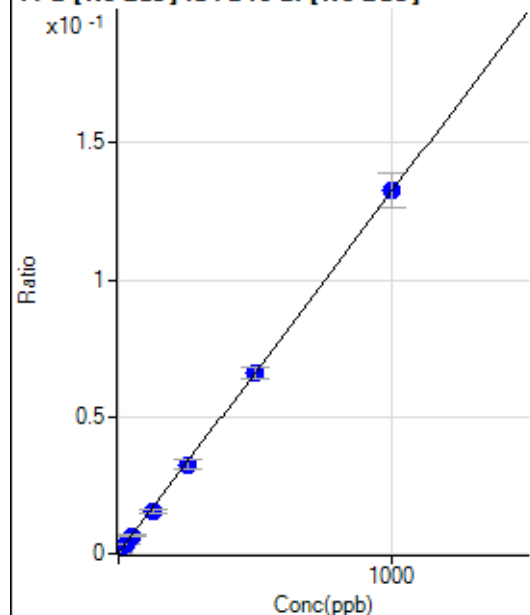
$$y = 3.0608\text{E-}005 * x + 4.0944\text{E-}005$$

$$R = 0.9999$$

$$DL = 0.6345$$

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	347.27	0.0002	P	6.7
2	☐	2.500	2.139	969.18	0.0004	P	11.6
3	☐	25.000	24.196	7713.18	0.0033	P	10.5
4	☐	50.000	48.293	14909.99	0.0065	P	11.3
5	☐	125.000	116.490	35620.10	0.0155	P	10.5
6	☐	250.000	245.794	72517.69	0.0326	P	9.5
7	☐	500.000	498.461	147822.15	0.0659	P	7.0
8	☐	1000.000	1002.991	295357.32	0.1325	P	9.5
9	☐			40237.79	0.0195	P	9.0

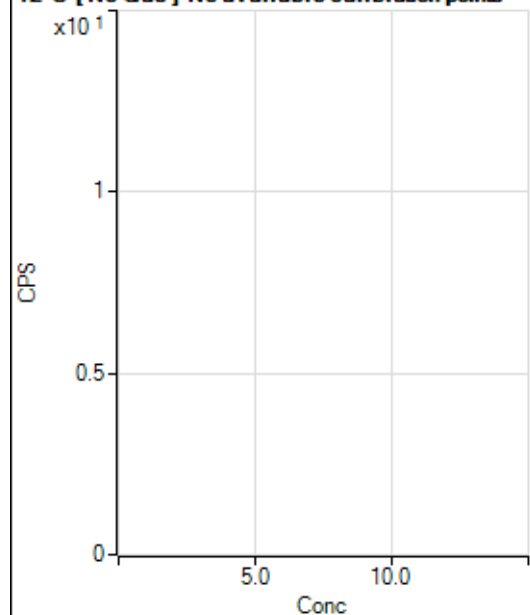
$$y = 1.3196E-004 * x + 1.5348E-004$$

$$R = 1.0000$$

$$DL = 0.235$$

Weight: <None>

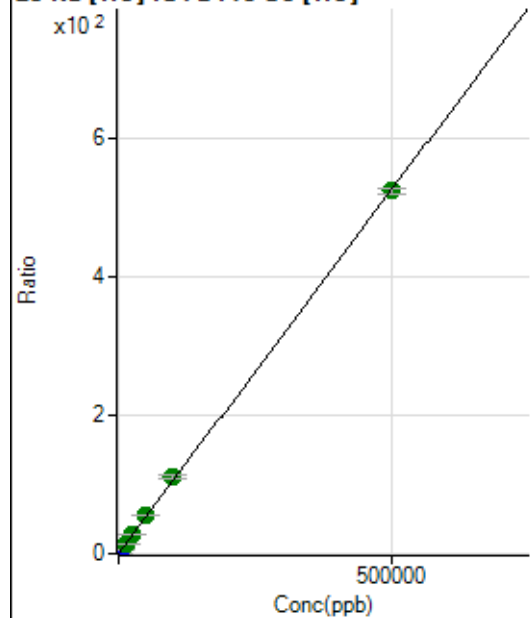
Min Conc: 0

12 C [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2713408.29		A	1.2
2	☐			2801122.91		A	0.7
3	☐			2812209.94		A	1.4
4	☐			3121675.81		A	0.9
5	☐			3194906.06		A	2.0
6	☐			3248714.35		A	2.0
7	☐			3371552.70		A	2.3
8	☐			3492889.01		A	2.5
9	☐			2886888.04		A	1.3

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			30370.90		P	1.2
2	☐			30738.19		P	1.6
3	☐			30704.83		P	1.7
4	☐			36445.69		P	2.4
5	☐			36236.77		P	2.4
6	☐			37445.33		P	1.4
7	☐			40261.35		P	1.2
8	☐			42406.27		P	1.0
9	☐			35406.98		P	2.7

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	13489.83	0.1599	P	1.8
2	☐	50.000	45.344	17508.06	0.2076	P	1.7
3	☐	500.000	541.629	59608.62	0.7291	P	1.6
4	☐	5000.000	5335.107	480857.82	5.7661	P	1.2
5	☐	12500.000	13311.749	1184511.67	14.1480	A	0.7
6	☐	25000.000	26521.730	2351262.38	28.0291	A	1.3
7	☐	50000.000	52359.874	4622272.89	55.1799	A	1.8
8	☐	100000.00	105639.97	9097229.46	111.1669	A	4.6
9	☐	500000.00	498536.24	42381699.91	524.0241	A	1.7

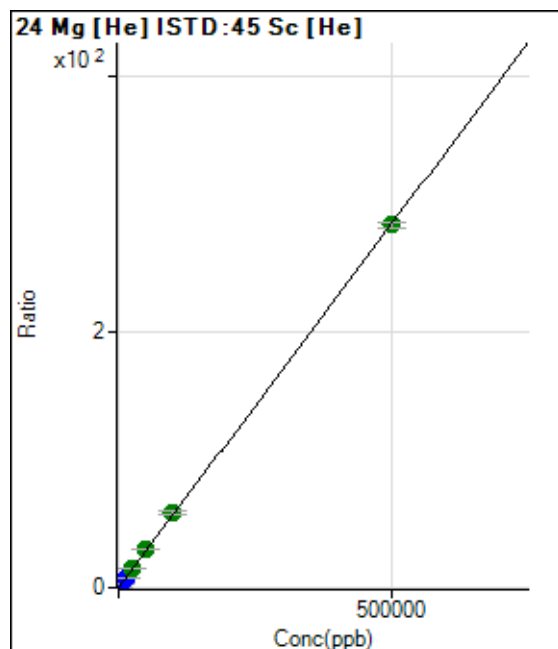
$$y = 0.0011 * x + 0.1599$$

$$R = 0.9999$$

$$DL = 8.269$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	302.79	0.0036	P	15.4
2	☐	50.000	51.111	2753.11	0.0326	P	4.9
3	☐	500.000	544.132	25589.70	0.3130	P	1.3
4	☐	5000.000	5336.537	253345.71	3.0379	P	1.1
5	☐	12500.000	13034.308	620764.01	7.4149	P	1.3
6	☐	25000.000	26449.184	1261869.65	15.0426	A	1.4
7	☐	50000.000	52137.289	2483719.54	29.6488	A	0.7
8	☐	100000.00	104075.26	4843331.57	59.1807	A	4.4
9	☐	500000.00	498881.99	22942810.93	283.6676	A	1.3

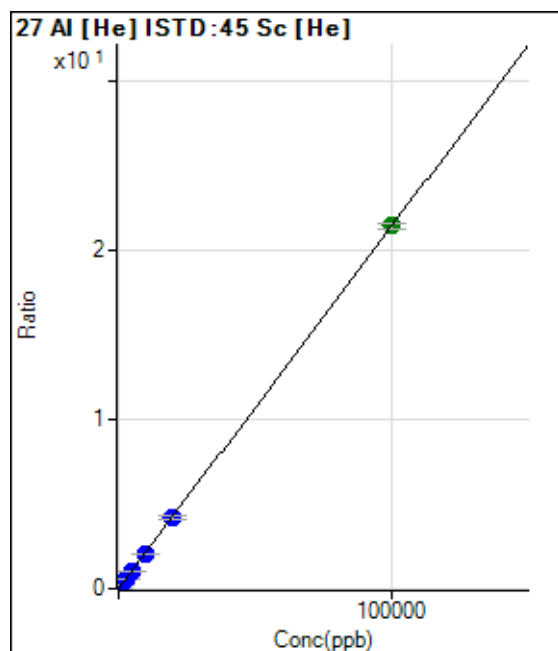
$$y = 5.6860\text{E-}004 * x + 0.0036$$

$$R = 1.0000$$

$$DL = 2.912$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	213.73	0.0025	P	8.9
2	☐	2.000	1.877	247.47	0.0029	P	16.7
3	☐	20.000	21.684	586.61	0.0072	P	4.8
4	☐	1000.000	972.125	17566.69	0.2106	P	1.1
5	☐	2500.000	2415.511	43503.19	0.5196	P	1.2
6	☐	5000.000	4798.784	86389.83	1.0298	P	0.7
7	☐	10000.000	9605.192	172461.13	2.0588	P	1.1
8	☐	20000.000	19576.965	343206.01	4.1934	P	4.3
9	☐	100000.00	100136.53	1734056.05	21.4391	A	1.9

$$y = 2.1407\text{E-}004 * x + 0.0025$$

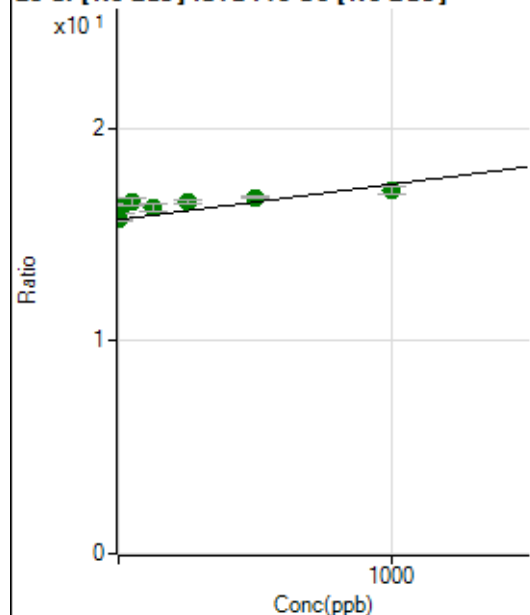
$$R = 1.0000$$

$$DL = 3.164$$

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	36847949.09	15.7108	A	0.5
2	☐	10.000	265.657	37128805.34	16.1526	A	2.1
3	☐	10.000	420.676	38140074.81	16.4104	A	0.7
4	☐	50.000	488.857	38076226.89	16.5237	A	2.0
5	☐	125.000	353.792	37932432.79	16.2991	A	2.1
6	☐	250.000	508.046	37771660.91	16.5557	A	1.5
7	☐	500.000	633.289	38700839.75	16.7639	A	0.8
8	☐	1000.000	811.639	39184755.74	17.0605	A	2.0
9	☐			36976805.34	16.1383	A	1.1

$$y = 0.0017 * x + 15.7108$$

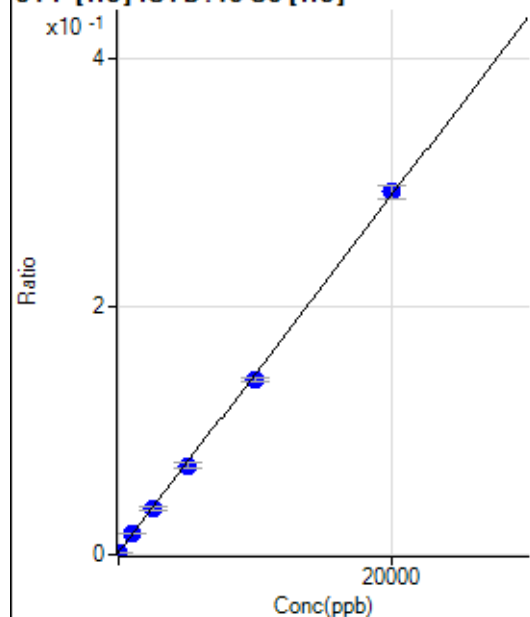
$$R = 0.8125$$

$$DL = 154.2$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-19.645	130.56	0.0015	P	20.2
2	☐	0.000	7.710	163.90	0.0019	P	7.7
3	☐	0.000	11.936	163.89	0.0020	P	10.1
4	☐	1000.000	1099.222	1472.34	0.0177	P	0.2
5	☐	2500.000	2438.667	3092.09	0.0369	P	10.0
6	☐	5000.000	4873.968	6040.32	0.0720	P	6.3
7	☐	10000.000	9676.033	11819.02	0.1411	P	3.1
8	☐	20000.000	20196.197	23945.22	0.2925	P	3.8
9	☐			169.45	0.0021	P	50.7

$$y = 1.4393E-005 * x + 0.0018$$

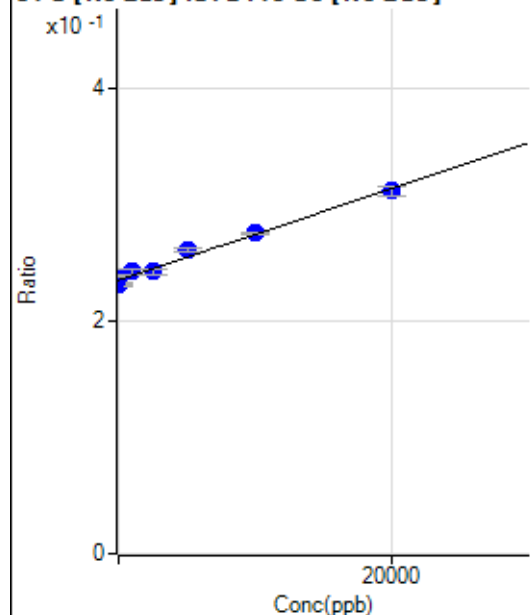
$$R = 0.9998$$

$$DL = 46.17$$

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	-1078.380	541775.63	0.2310	P	1.2
2	☐	0.000	174.953	542391.31	0.2360	P	1.7
3	☐	0.000	903.428	555078.62	0.2388	P	0.4
4	☐	1000.000	1887.015	559260.99	0.2427	P	2.3
5	☐	2500.000	1871.134	564711.02	0.2426	P	2.0
6	☐	5000.000	6706.014	597147.45	0.2617	P	1.1
7	☐	10000.000	10284.551	636833.64	0.2759	P	0.4
8	☐	20000.000	19465.478	716771.27	0.3121	P	2.3
9	☐			513452.68	0.2241	P	1.7

$$y = 3.9466E-006 * x + 0.2353$$

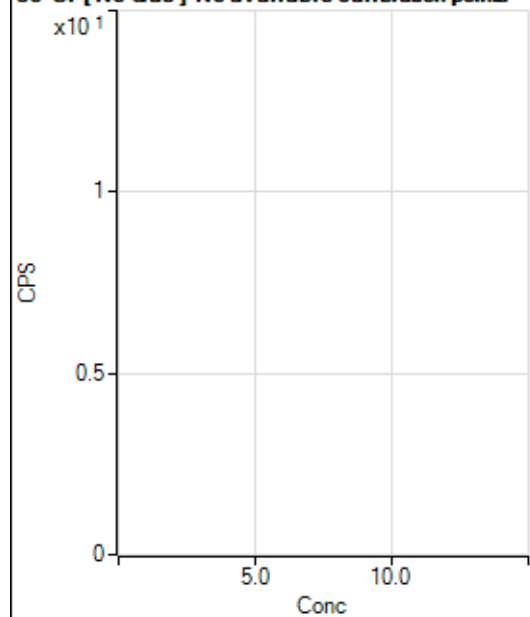
R = 0.9912

DL = 1985

Weight: <None>

Min Conc: 0

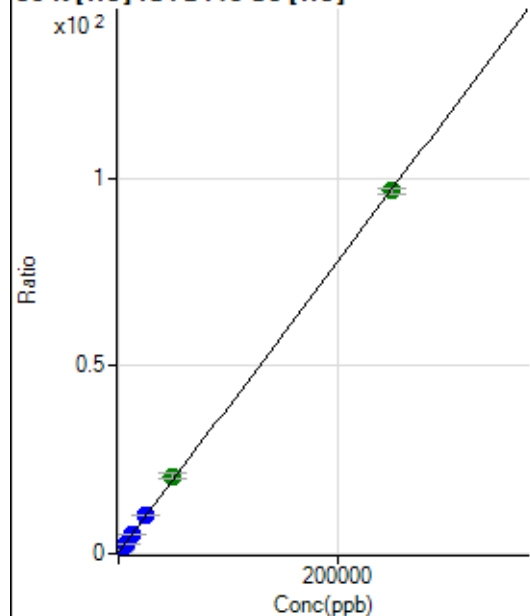
35 Cl [No Gas] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐			280318.49		P	0.6
2	☐			273170.20		P	0.6
3	☐			233841.61		P	0.6
4	☐			246935.11		P	1.5
5	☐			239646.37		P	1.6
6	☐			229674.88		P	1.0
7	☐			222877.04		P	1.5
8	☐			215503.86		P	1.0
9	☐			186698.66		P	1.7

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2278.03		P	8.7
2	☐			2505.85		P	7.3
3	☐			1861.28		P	6.5
4	☐			2108.53		P	2.1
5	☐			1927.96		P	2.9
6	☐			2100.21		P	5.6
7	☐			2014.09		P	5.6
8	☐			1891.85		P	7.5
9	☐			1611.25		P	16.0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	22248.18	0.2638	P	2.5
2	☐	50.000	45.690	23742.24	0.2815	P	1.1
3	☐	500.000	538.280	38585.47	0.4720	P	4.0
4	☐	2500.000	2610.046	106189.02	1.2734	P	1.6
5	☐	6250.000	6400.124	229339.19	2.7394	P	0.9
6	☐	12500.000	12834.360	438592.39	5.2281	P	0.4
7	☐	25000.000	25823.980	858826.08	10.2525	P	1.4
8	☐	50000.000	52891.873	1695202.98	20.7223	A	5.8
9	☐	250000.00	249317.58	7821110.07	96.6993	A	1.6

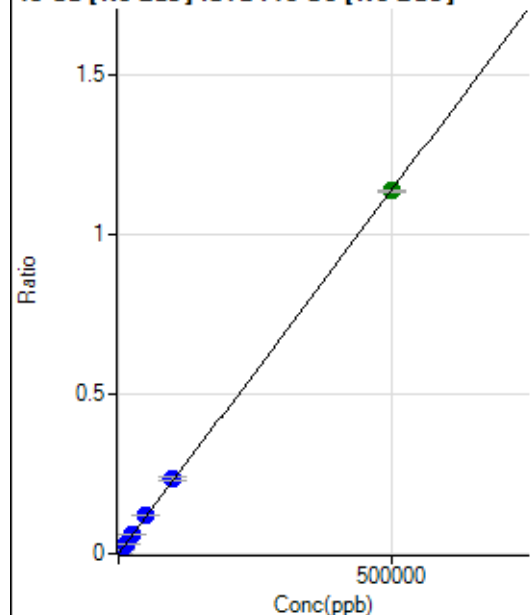
$$y = 3.8680E-004 * x + 0.2638$$

$$R = 0.9999$$

$$DL = 50.83$$

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	182.48	0.0001	P	9.0
2	☐	50.000	47.948	429.95	0.0002	P	5.0
3	☐	500.000	481.628	2729.10	0.0012	P	3.8
4	☐	5000.000	5243.139	27680.22	0.0120	P	2.8
5	☐	12500.000	12913.036	68583.13	0.0295	P	3.2
6	☐	25000.000	26252.890	136541.64	0.0598	P	0.1
7	☐	50000.000	51877.774	272831.09	0.1182	P	0.7
8	☐	100000.00	102891.96	538078.90	0.2343	P	3.3
9	☐	500000.00	499158.44	2603862.47	1.1364	A	0.4

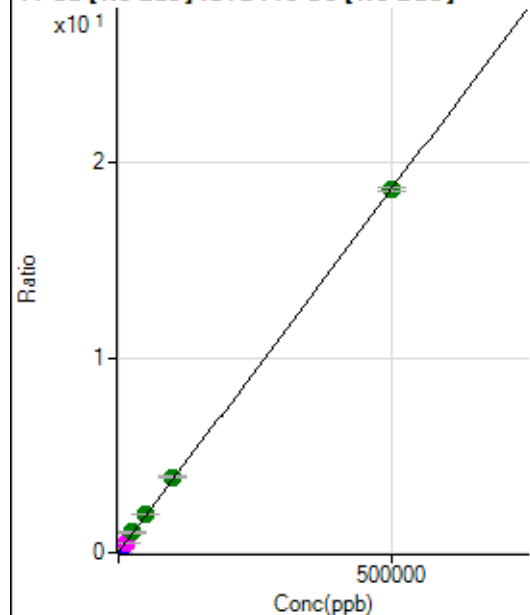
$$y = 2.2764E-006 * x + 7.7832E-005$$

$$R = 1.0000$$

$$DL = 9.198$$

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	60237.79	0.0257	P	1.1
2	☒	50.000					
3	☐	500.000	527.761	105389.82	0.0453	P	0.4
4	☐	5000.000	5226.823	507836.38	0.2204	P	2.6
5	☐	12500.000	13130.976	1197889.86	0.5148	M	4.3
6	☐	25000.000	27127.466	2364620.83	1.0363	A	1.8
7	☐	50000.000	52799.019	4600487.71	1.9926	A	1.2
8	☐	100000.00	103395.49	8904860.14	3.8774	A	2.9
9	☐	500000.00	498916.55	42644417.85	18.6117	A	1.1

$$y = 3.7253E-005 * x + 0.0257$$

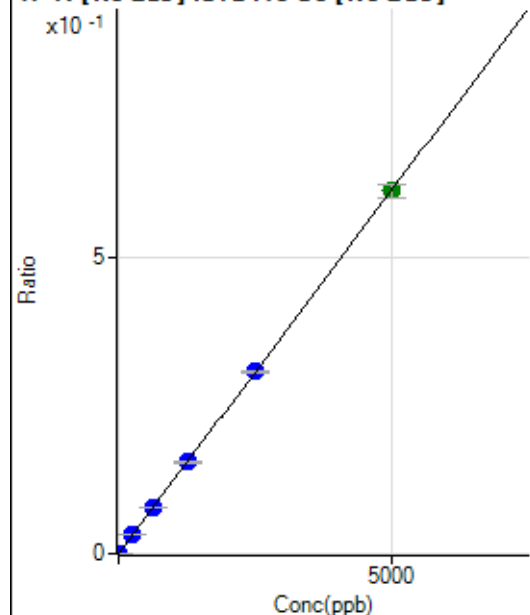
$$R = 1.0000$$

$$DL = 22.09$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	213.90	0.0001	P	8.9
2	☐	0.500	0.595	377.80	0.0002	P	6.0
3	☐	5.000	5.308	1727.93	0.0007	P	7.8
4	☐	250.000	255.655	72586.81	0.0315	P	1.8
5	☐	625.000	633.165	181222.90	0.0779	P	2.8
6	☐	1250.000	1262.567	354098.00	0.1552	P	1.5
7	☐	2500.000	2504.078	710425.24	0.3077	P	0.8
8	☐	5000.000	4993.516	1408999.31	0.6135	A	3.5
9	☐			480.58	0.0002	P	9.6

$$y = 1.2285E-004 * x + 9.1240E-005$$

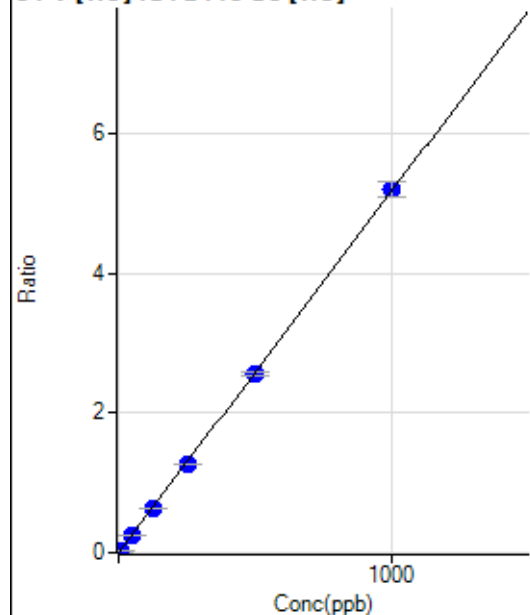
$$R = 1.0000$$

$$DL = 0.1981$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	5.56	0.0001	P	34.2
2	☐	0.500	0.489	218.89	0.0026	P	15.2
3	☐	5.000	5.195	2204.63	0.0270	P	2.1
4	☐	50.000	49.869	21530.73	0.2582	P	2.3
5	☐	125.000	122.728	53190.59	0.6353	P	1.0
6	☐	250.000	247.220	107358.79	1.2797	P	0.1
7	☐	500.000	493.463	213968.63	2.5544	P	1.8
8	☐	1000.000	1004.253	425465.71	5.1983	P	4.1
9	☐			70.00	0.0009	P	16.1

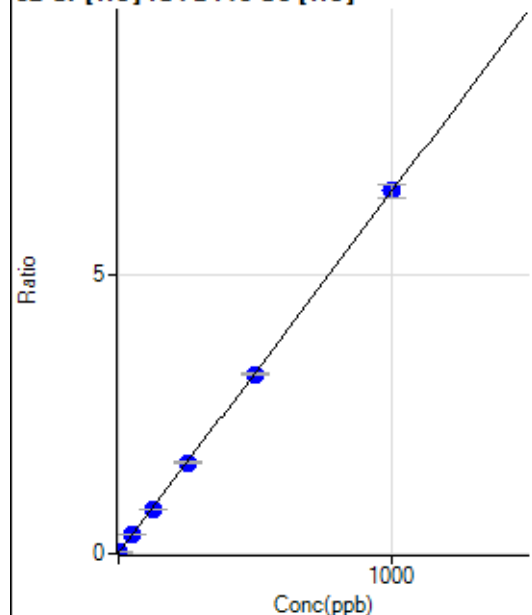
$$y = 0.0052 * x + 6.5777E-005$$

$$R = 1.0000$$

$$DL = 0.01303$$

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	541.13	0.0064	P	14.0
2	☐	0.200	0.237	670.02	0.0079	P	5.3
3	☐	2.000	1.948	1555.65	0.0190	P	5.9
4	☐	50.000	51.258	28207.82	0.3383	P	2.1
5	☐	125.000	123.463	67459.23	0.8057	P	0.1
6	☐	250.000	250.141	136387.10	1.6259	P	1.4
7	☐	500.000	495.837	269451.30	3.2166	P	1.1
8	☐	1000.000	1002.176	531591.49	6.4947	P	4.0
9	☐			3763.86	0.0465	P	2.0

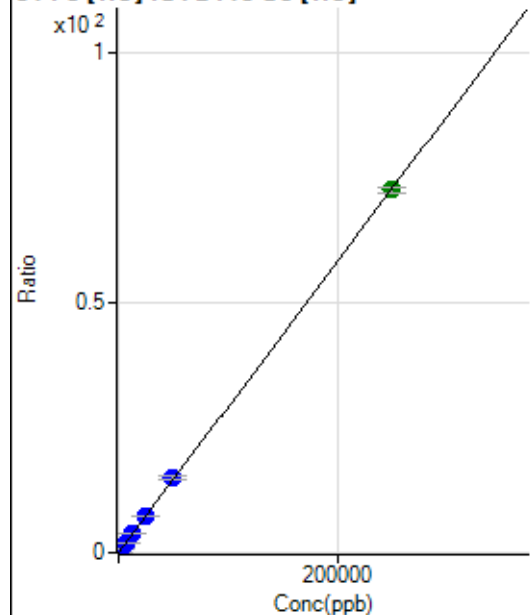
$$y = 0.0065 * x + 0.0064$$

$$R = 1.0000$$

$$DL = 0.4157$$

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	359.27	0.0043	P	17.3
2	☐	5.000	6.128	509.28	0.0060	P	15.2
3	☐	50.000	55.065	1655.68	0.0202	P	8.0
4	☐	2500.000	2556.113	62259.33	0.7465	P	1.0
5	☐	6250.000	6345.259	154612.47	1.8469	P	2.1
6	☐	12500.000	12672.495	309072.76	3.6843	P	1.0
7	☐	25000.000	25303.584	615859.36	7.3523	P	2.6
8	☐	50000.000	51300.569	1219606.95	14.9017	P	4.2
9	☐	250000.00	249697.95	5864726.87	72.5154	A	1.7

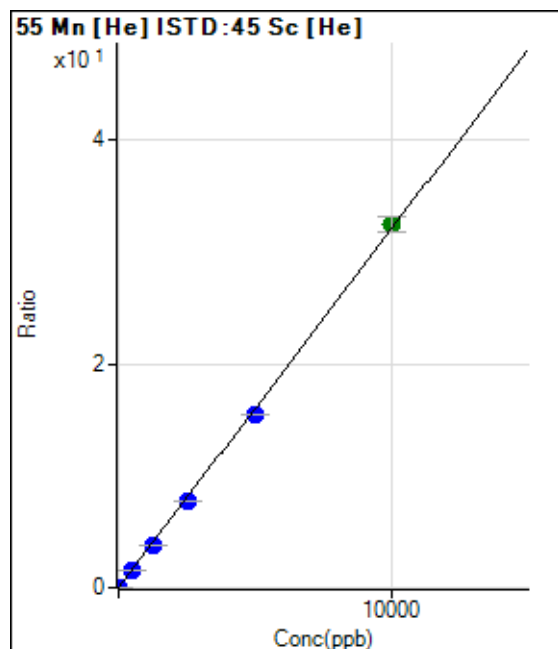
$$y = 2.9040E-004 * x + 0.0043$$

$$R = 1.0000$$

$$DL = 7.627$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	35.55	0.0004	P	29.6
2	☐	0.100	0.087	58.89	0.0007	P	17.9
3	☐	1.000	1.171	341.12	0.0042	P	9.9
4	☐	500.000	484.837	129564.02	1.5536	P	0.8
5	☐	1250.000	1201.173	322189.46	3.8484	P	0.7
6	☐	2500.000	2417.827	649816.59	7.7460	P	0.3
7	☐	5000.000	4829.272	1296044.45	15.4711	P	0.7
8	☐	10000.000	10112.769	2651547.84	32.3969	A	4.1
9	☐			1460.09	0.0181	P	3.1

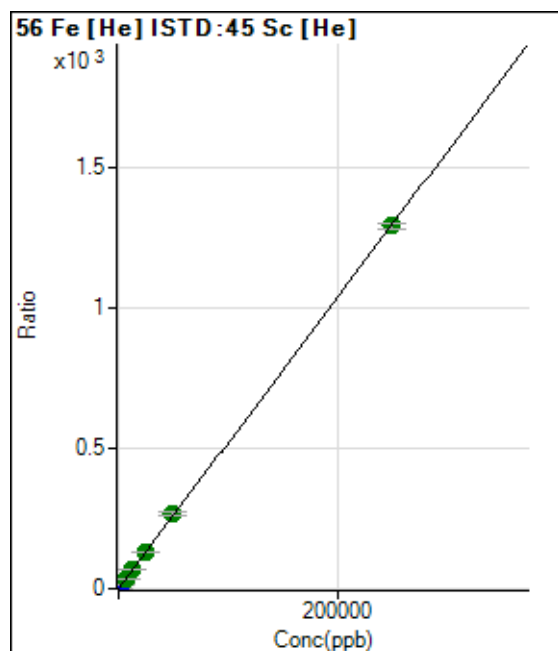
$$y = 0.0032 * x + 4.2098E-004$$

$$R = 0.9998$$

$$DL = 0.1168$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1187.11	0.0141	P	4.2
2	☐	5.000	5.184	3448.62	0.0409	P	4.9
3	☐	50.000	52.204	23224.59	0.2840	P	0.6
4	☐	2500.000	2541.187	1097011.15	13.1548	P	1.4
5	☐	6250.000	6437.080	2788038.84	33.3008	A	0.1
6	☐	12500.000	12745.271	5530180.04	65.9210	A	0.3
7	☐	25000.000	25526.672	11058713.21	132.0147	A	1.3
8	☐	50000.000	51519.500	21804071.09	266.4259	A	4.4
9	☐	250000.00	249626.08	104400386.5	1,290.852	A	1.6

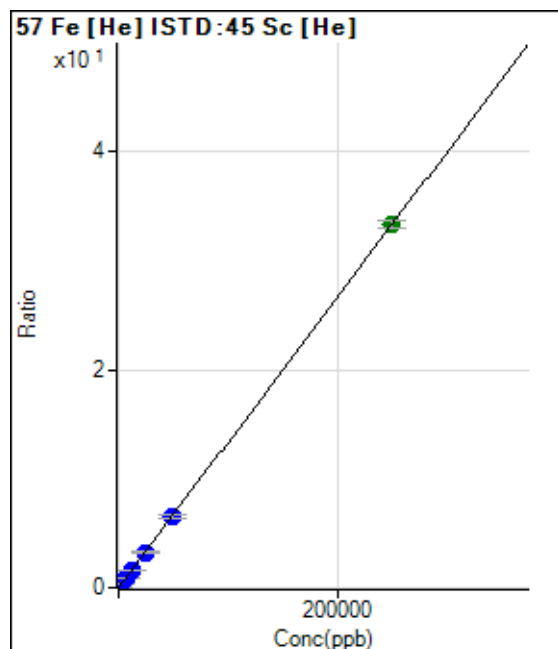
$$y = 0.0052 * x + 0.0141$$

$$R = 1.0000$$

$$DL = 0.3458$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	94.45	0.0011	P	25.9
2	☒	5.000					
3	☐	50.000	54.981	688.92	0.0084	P	3.9
4	☐	2500.000	2447.680	27226.28	0.3264	P	1.1
5	☐	6250.000	6127.043	68268.47	0.8154	P	1.8
6	☐	12500.000	12104.902	135058.75	1.6099	P	0.2
7	☐	25000.000	24413.238	271886.40	3.2458	P	2.0
8	☐	50000.000	49136.068	534509.60	6.5316	P	4.6
9	☐	250000.00	250254.81	2689960.42	33.2614	A	2.0

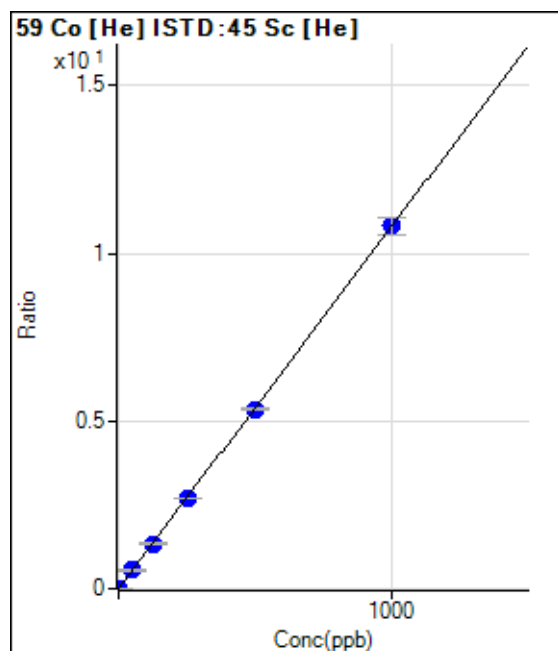
$$y = 1.3291\text{E-}004 * x + 0.0011$$

$$R = 1.0000$$

$$DL = 6.56$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	30.00	0.0004	P	11.7
2	☐	0.100	0.127	145.56	0.0017	P	9.1
3	☐	1.000	1.021	930.04	0.0114	P	6.4
4	☐	50.000	50.633	45605.09	0.5469	P	1.0
5	☐	125.000	124.338	112381.39	1.3424	P	1.4
6	☐	250.000	250.022	226410.07	2.6989	P	0.5
7	☐	500.000	496.238	448709.81	5.3564	P	1.0
8	☐	1000.000	1001.926	884943.11	10.8145	P	4.8
9	☐			1285.63	0.0159	P	3.7

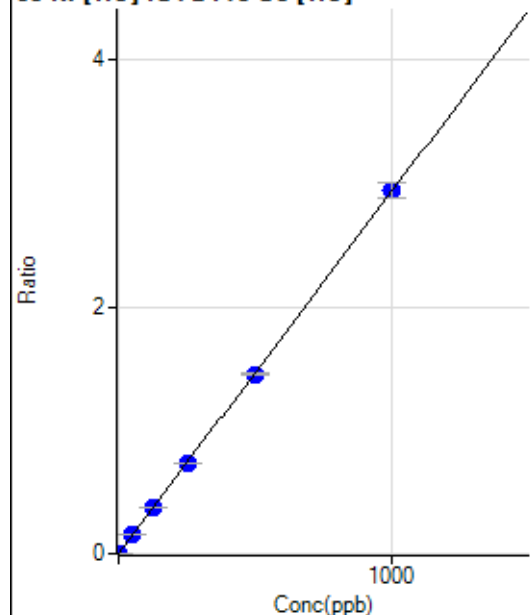
$$y = 0.0108 * x + 3.5586\text{E-}004$$

$$R = 1.0000$$

$$DL = 0.01156$$

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	17.10	0.0002	P	62.3
2	☐	0.100	0.126	48.06	0.0006	P	31.8
3	☐	1.000	1.184	300.25	0.0037	P	10.2
4	☐	50.000	51.625	12628.96	0.1514	P	2.3
5	☐	125.000	127.518	31292.53	0.3738	P	1.5
6	☐	250.000	250.082	61479.80	0.7329	P	0.2
7	☐	500.000	494.442	121361.89	1.4487	P	1.2
8	☐	1000.000	1002.363	240367.62	2.9368	P	4.1
9	☐			805.22	0.0100	P	5.6

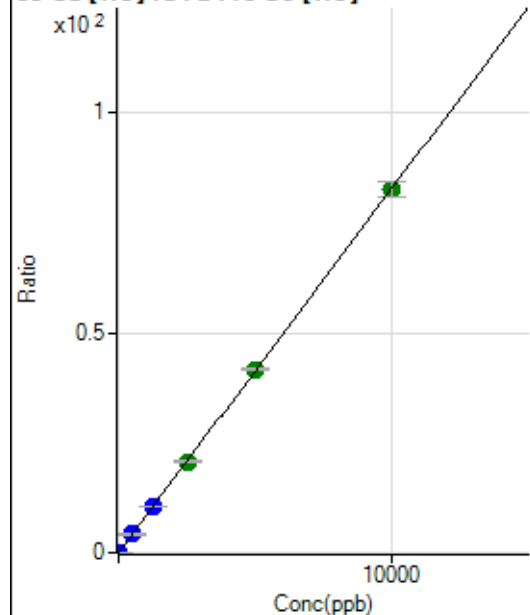
$$y = 0.0029 * x + 2.0262E-004$$

$$R = 1.0000$$

$$DL = 0.1292$$

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	678.91	0.0080	P	5.9
2	☐	0.200	0.209	824.48	0.0098	P	10.3
3	☐	2.000	1.953	1977.94	0.0242	P	2.3
4	☐	500.000	502.788	347058.08	4.1616	P	0.9
5	☐	1250.000	1252.819	867135.18	10.3577	P	1.0
6	☐	2500.000	2507.909	1738692.18	20.7260	A	0.6
7	☐	5000.000	5047.266	3493804.67	41.7038	A	0.5
8	☐	10000.000	9973.898	6743992.33	82.4029	A	4.3
9	☐			4816.41	0.0596	P	5.8

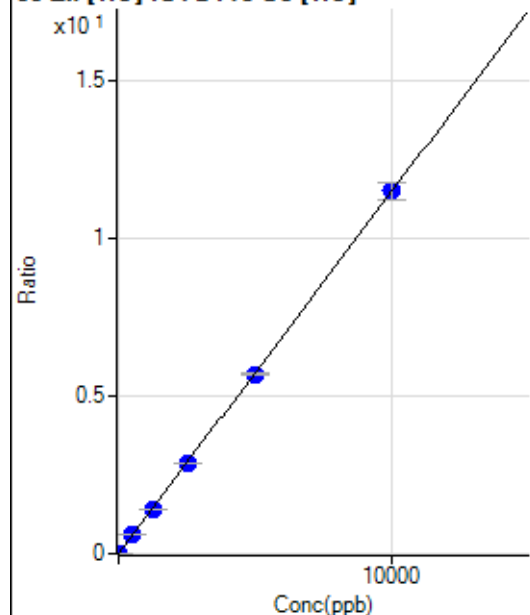
$$y = 0.0083 * x + 0.0080$$

$$R = 1.0000$$

$$DL = 0.1735$$

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	64.44	0.0008	P	16.0
2	☐	0.200	0.205	84.45	0.0010	P	11.8
3	☐	2.000	2.030	253.34	0.0031	P	3.1
4	☐	500.000	512.859	49250.73	0.5906	P	1.8
5	☐	1250.000	1243.650	119810.91	1.4311	P	0.4
6	☐	2500.000	2488.955	240195.08	2.8633	P	0.5
7	☐	5000.000	4962.068	478125.59	5.7075	P	0.9
8	☐	10000.000	10021.878	943299.45	11.5267	P	4.6
9	☐			2284.65	0.0283	P	2.8

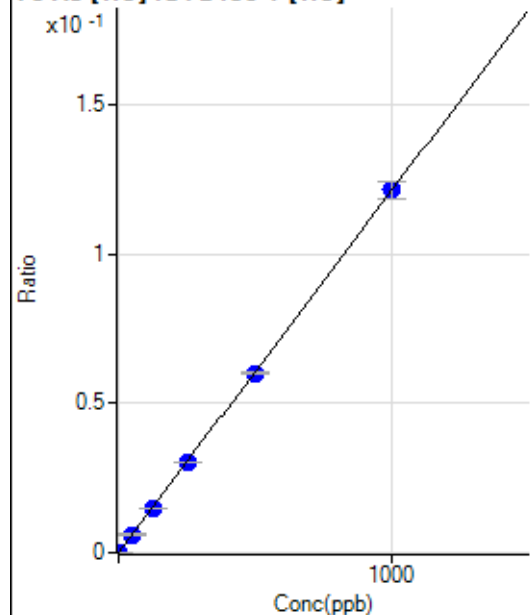
$$y = 0.0012 * x + 7.6434E-004$$

$$R = 1.0000$$

$$DL = 0.3195$$

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	6.33	0.0000	P	10.0
2	☐	0.100	0.076	11.33	0.0000	P	35.2
3	☐	1.000	1.174	82.68	0.0002	P	6.4
4	☐	50.000	50.097	3353.74	0.0061	P	1.7
5	☐	125.000	122.842	8300.28	0.0149	P	2.0
6	☐	250.000	248.875	16791.31	0.0302	P	1.3
7	☐	500.000	495.154	33586.41	0.0601	P	1.0
8	☐	1000.000	1002.969	67000.01	0.1217	P	4.8
9	☐			37.00	0.0001	P	15.9

$$y = 1.2134E-004 * x + 1.1244E-005$$

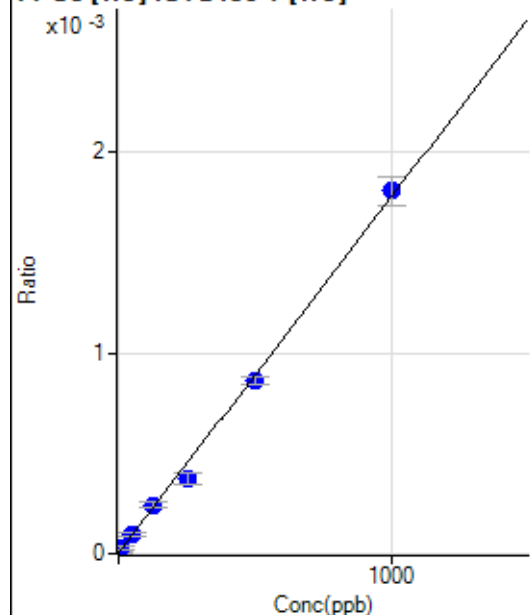
$$R = 1.0000$$

$$DL = 0.02779$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	2.22	0.0000	P	173.2
2	☐	0.500	3.503	5.56	0.0000	P	92.0
3	☐	5.000	11.942	13.33	0.0000	P	68.7
4	☐	50.000	51.097	52.22	0.0001	P	24.7
5	☐	125.000	134.989	135.56	0.0002	P	10.8
6	☐	250.000	208.468	207.78	0.0004	P	13.3
7	☐	500.000	485.046	483.35	0.0009	P	3.9
8	☐	1000.000	1016.520	994.49	0.0018	P	7.9
9	☐			3.33	0.0000	P	99.2

$$y = 1.7750E-006 * x + 3.9101E-006$$

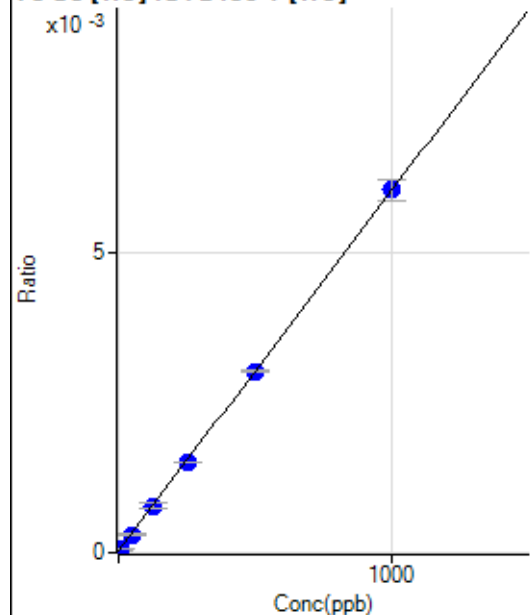
$$R = 0.9987$$

$$DL = 11.45$$

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	17.33	0.0000	P	3.4
2	☐	0.500	1.426	21.67	0.0000	P	26.3
3	☐	5.000	6.716	38.33	0.0001	P	16.8
4	☐	50.000	45.458	167.35	0.0003	P	4.8
5	☐	125.000	124.979	434.72	0.0008	P	9.6
6	☐	250.000	246.183	839.44	0.0015	P	1.5
7	☐	500.000	497.503	1688.28	0.0030	P	0.8
8	☐	1000.000	1002.423	3332.74	0.0061	P	5.6
9	☐			15.67	0.0000	P	26.0

$$y = 6.0099E-006 * x + 3.0757E-005$$

$$R = 1.0000$$

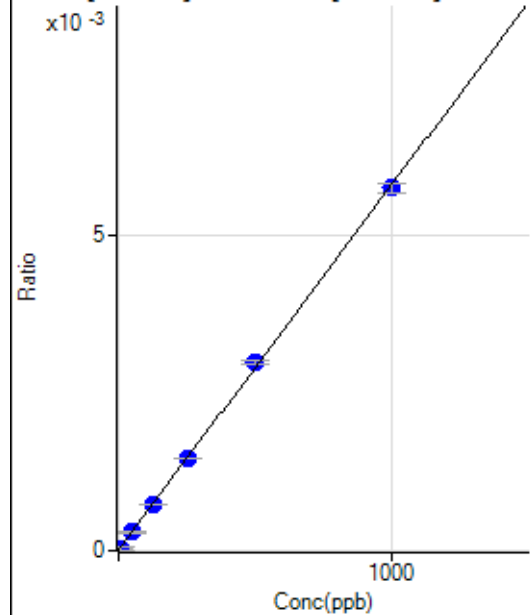
$$DL = 0.5207$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			934.34		P	9.9
2	☐			1037.77		P	9.7
3	☐			997.73		P	9.3
4	☐			777.49		P	9.1
5	☐			1011.08		P	2.0
6	☐			1047.79		P	21.1
7	☐			927.66		P	9.4
8	☐			984.39		P	11.0
9	☐			1097.84		P	11.7

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	57.28	0.0000	P	132.6
2	☒	0.500					
3	☐	5.000	3.210	147.95	0.0000	P	122.4
4	☐	50.000	49.734	1438.76	0.0003	P	11.9
5	☐	125.000	123.017	3563.96	0.0007	P	1.6
6	☐	250.000	251.779	7216.09	0.0015	P	1.4
7	☐	500.000	515.327	14583.96	0.0030	P	1.5
8	☐	1000.000	992.162	28385.19	0.0058	P	2.9
9	☐			-46.72	0.0000	P	-161.

$$y = 5.7907E-006 * x + 1.1505E-005$$

$$R = 0.9998$$

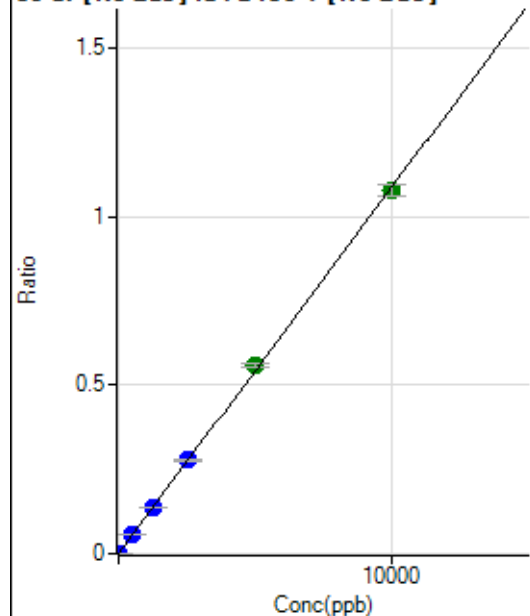
$$DL = 7.901$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1315.63		P	3.7
2	☐			1368.97		P	6.5
3	☐			1350.08		P	11.6
4	☐			1310.08		P	12.0
5	☐			1361.19		P	2.8
6	☐			1288.96		P	6.1
7	☐			1272.29		P	3.7
8	☐			1377.86		P	3.8
9	☐			1316.74		P	6.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	2097.43	0.0004	P	5.9
2	☐	0.100	-0.156	2002.99	0.0004	P	4.9
3	☐	1.000	1.046	2616.99	0.0005	P	8.8
4	☐	500.000	519.288	273273.49	0.0569	P	2.6
5	☐	1250.000	1263.156	677794.31	0.1377	P	1.8
6	☐	2500.000	2549.645	1362752.48	0.2775	P	1.2
7	☐	5000.000	5149.529	2726389.02	0.5600	A	1.7
8	☐	10000.000	9910.215	5312213.92	1.0774	A	3.1
9	☐			3595.00	0.0008	P	4.1

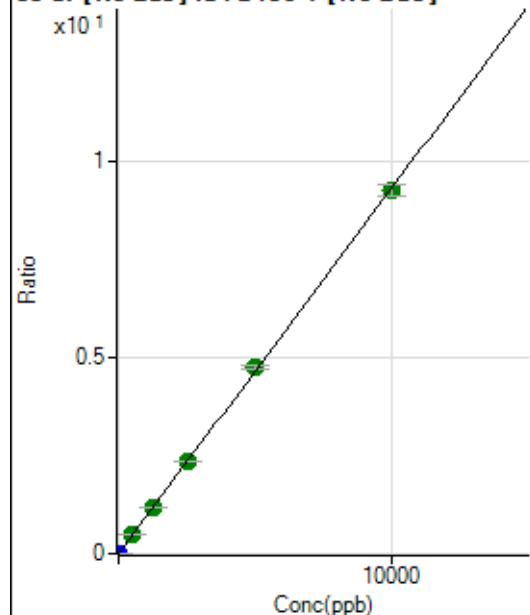
$$y = 1.0867E-004 * x + 4.2046E-004$$

$$R = 0.9998$$

$$DL = 0.6881$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	69.45	0.0000	P	25.0
2	☐	0.100	0.098	525.03	0.0001	P	4.6
3	☐	1.000	1.065	4931.57	0.0010	P	3.8
4	☐	500.000	523.496	2346225.46	0.4881	A	1.9
5	☐	1250.000	1267.423	5817331.25	1.1817	A	1.7
6	☐	2500.000	2524.843	11560300.52	2.3540	A	0.8
7	☐	5000.000	5111.806	23203520.14	4.7659	A	1.7
8	☐	10000.000	9934.533	45670306.23	9.2624	A	3.0
9	☐			12853.47	0.0027	P	2.3

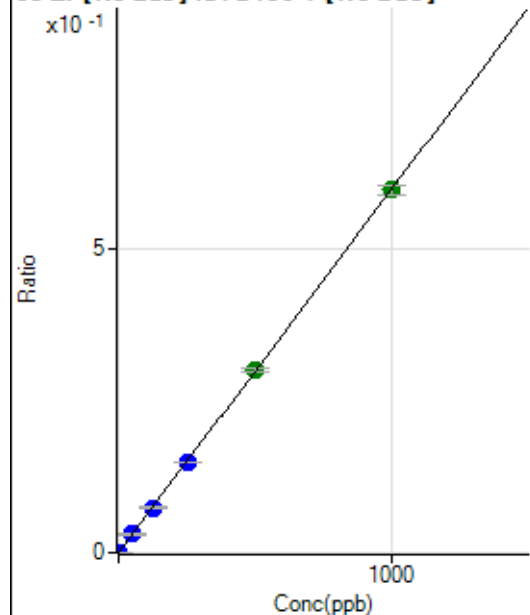
$$y = 9.3234\text{E-}004 * x + 1.3922\text{E-}005$$

$$R = 0.9999$$

$$DL = 0.01119$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	297.23	0.0001	P	25.3
2	☐	0.100	0.087	552.81	0.0001	P	9.8
3	☐	1.000	0.993	3197.67	0.0007	P	9.2
4	☐	50.000	50.579	145523.82	0.0303	P	2.2
5	☐	125.000	124.003	364945.88	0.0741	P	1.9
6	☐	250.000	249.538	732345.86	0.1491	P	0.5
7	☐	500.000	502.794	1462526.85	0.3004	A	1.8
8	☐	1000.000	998.814	2942452.63	0.5967	A	2.6
9	☐			727.82	0.0002	P	8.8

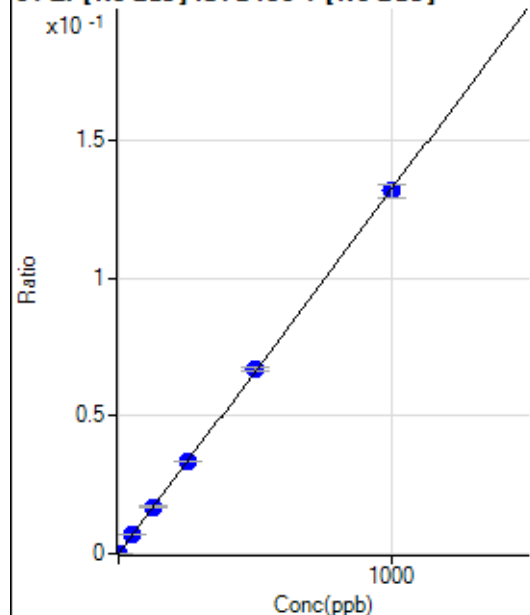
$$y = 5.9737\text{E-}004 * x + 5.9568\text{E-}005$$

$$R = 1.0000$$

$$DL = 0.07555$$

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	91.67	0.0000	P	15.6
2	☐	0.100	0.068	136.12	0.0000	P	27.6
3	☐	1.000	0.901	672.26	0.0001	P	23.0
4	☐	50.000	51.075	32508.03	0.0068	P	1.1
5	☐	125.000	127.296	82812.19	0.0168	P	3.0
6	☐	250.000	251.568	163195.25	0.0332	P	0.6
7	☐	500.000	506.574	325677.14	0.0669	P	2.3
8	☐	1000.000	995.980	648412.15	0.1315	P	3.5
9	☐			152.78	0.0000	P	31.6

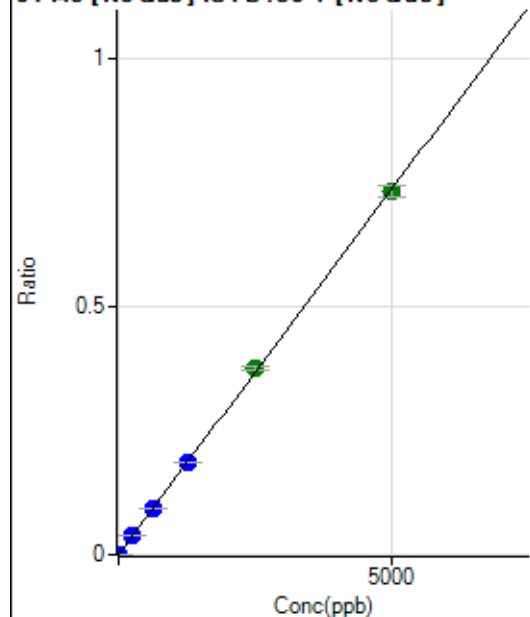
$$y = 1.3202\text{E-}004 * x + 1.8375\text{E-}005$$

$$R = 1.0000$$

$$DL = 0.06505$$

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	80.56	0.0000	P	11.9
2	☐	0.500	0.556	486.13	0.0001	P	10.5
3	☐	5.000	4.903	3611.66	0.0007	P	0.8
4	☐	250.000	258.384	182676.78	0.0380	P	1.4
5	☐	625.000	627.859	454440.20	0.0923	P	2.2
6	☐	1250.000	1265.936	914043.22	0.1861	P	0.7
7	☐	2500.000	2555.435	1828921.11	0.3757	A	2.3
8	☐	5000.000	4967.522	3600974.47	0.7303	A	3.2
9	☐			1008.40	0.0002	P	11.7

$$y = 1.4701\text{E-}004 * x + 1.6148\text{E-}005$$

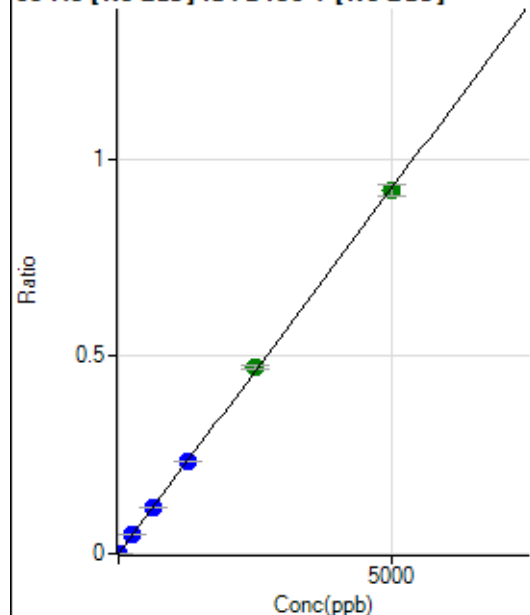
$$R = 0.9999$$

$$DL = 0.03915$$

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	13.89	0.0000	P	69.1
2	☐	0.500	0.502	475.02	0.0001	P	13.3
3	☐	5.000	4.626	4211.87	0.0009	P	2.3
4	☐	250.000	256.368	228255.99	0.0475	P	1.4
5	☐	625.000	629.253	573730.21	0.1165	P	1.5
6	☐	1250.000	1269.668	1154817.98	0.2352	P	1.0
7	☐	2500.000	2553.916	2302779.94	0.4730	A	1.9
8	☐	5000.000	4967.275	4536187.64	0.9200	A	3.1
9	☐			1477.90	0.0003	P	6.1

$$y = 1.8521\text{E-}004 * x + 2.7818\text{E-}006$$

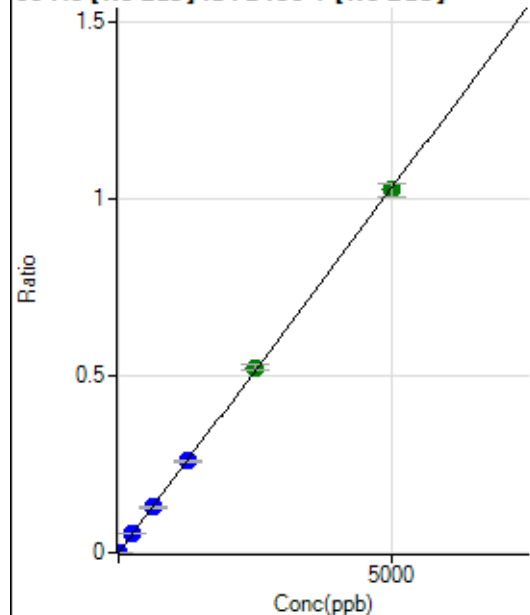
$$R = 0.9999$$

$$DL = 0.03115$$

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	52.78	0.0000	P	36.3
2	☐	0.500	0.483	547.25	0.0001	P	19.9
3	☐	5.000	4.905	5009.38	0.0010	P	4.0
4	☐	250.000	255.943	253818.85	0.0528	P	1.5
5	☐	625.000	622.909	632531.49	0.1285	P	1.8
6	☐	1250.000	1254.311	1270567.52	0.2587	P	0.3
7	☐	2500.000	2541.373	2551744.44	0.5242	A	2.7
8	☐	5000.000	4978.200	5062847.77	1.0268	A	3.8
9	☐			1850.17	0.0004	P	9.8

$$y = 2.0626\text{E-}004 * x + 1.0577\text{E-}005$$

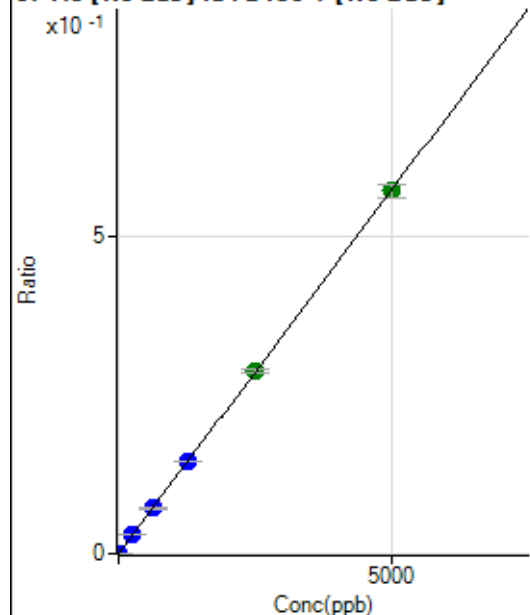
$$R = 1.0000$$

$$DL = 0.05582$$

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	0.2
2	☐	0.500	0.458	269.46	0.0001	P	5.5
3	☐	5.000	4.918	2772.58	0.0006	P	2.0
4	☐	250.000	255.114	140671.93	0.0293	P	2.2
5	☐	625.000	624.415	352596.85	0.0716	P	1.7
6	☐	1250.000	1260.385	710007.04	0.1446	P	0.4
7	☐	2500.000	2512.843	1403091.98	0.2882	A	3.1
8	☐	5000.000	4990.800	2822591.90	0.5725	A	3.9
9	☐			852.83	0.0002	P	4.2

$$y = 1.1471\text{E-}004 * x + 1.6699\text{E-}006$$

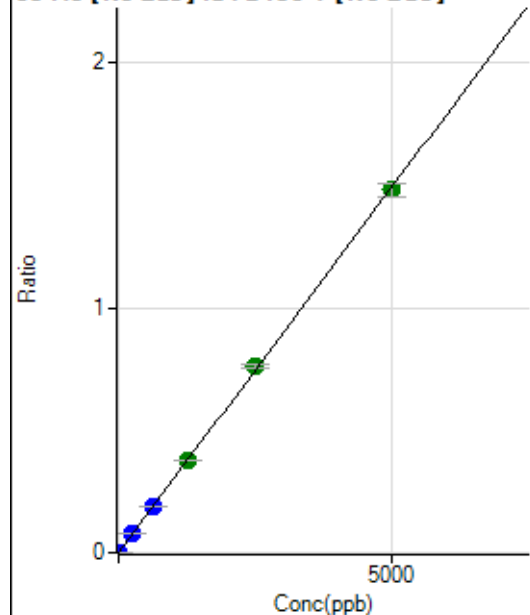
$$R = 1.0000$$

$$DL = 9.891\text{E-}05$$

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	30.55	0.0000	P	15.9
2	☐	0.500	0.481	741.71	0.0001	P	7.5
3	☐	5.000	4.912	7202.08	0.0015	P	2.6
4	☐	250.000	256.866	367948.93	0.0765	P	2.5
5	☐	625.000	630.396	924748.91	0.1879	P	2.0
6	☐	1250.000	1265.379	1851686.65	0.3771	A	1.1
7	☐	2500.000	2552.786	3703438.28	0.7607	A	1.5
8	☐	5000.000	4968.745	7300125.69	1.4806	A	4.1
9	☐			2130.78	0.0004	P	3.3

$$y = 2.9799\text{E-}004 * x + 6.1260\text{E-}006$$

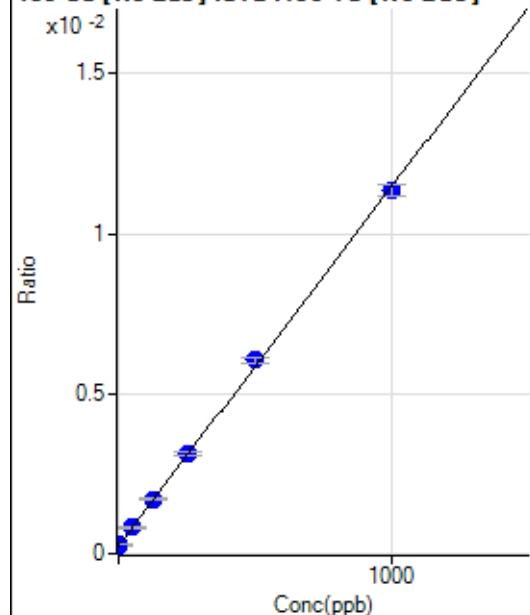
$$R = 0.9999$$

$$DL = 0.009794$$

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	944.51	0.0003	P	7.0
2	☐	0.100	4.571	1136.19	0.0003	P	5.4
3	☐	1.000	4.718	1136.19	0.0003	P	3.6
4	☐	50.000	52.126	3069.88	0.0008	P	6.4
5	☐	125.000	128.872	6404.47	0.0017	P	2.7
6	☐	250.000	257.668	11805.35	0.0031	P	3.2
7	☐	500.000	517.361	22326.95	0.0060	P	2.8
8	☐	1000.000	988.808	42847.63	0.0113	P	3.3
9	☐			1086.18	0.0003	P	4.4

$$y = 1.1207\text{E-}005 * x + 2.5127\text{E-}004$$

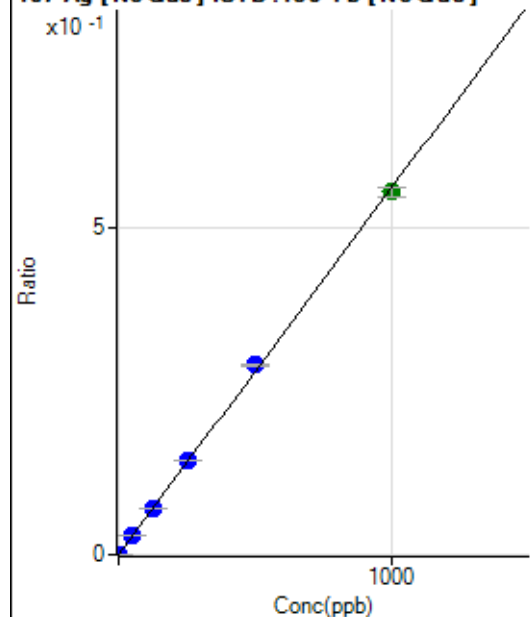
$$R = 0.9998$$

$$DL = 4.725$$

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	19.44	0.0000	P	49.1
2	☒	0.100					
3	☐	1.000	0.953	2016.87	0.0005	P	6.3
4	☐	50.000	51.500	106165.31	0.0289	P	3.4
5	☐	125.000	127.304	269873.46	0.0714	P	1.8
6	☐	250.000	257.045	542430.11	0.1442	P	1.0
7	☐	500.000	517.099	1070835.94	0.2902	P	1.2
8	☐	1000.000	989.326	2098861.53	0.5552	A	2.7
9	☐			663.93	0.0002	P	0.9

$$y = 5.6115\text{E-}004 * x + 5.1600\text{E-}006$$

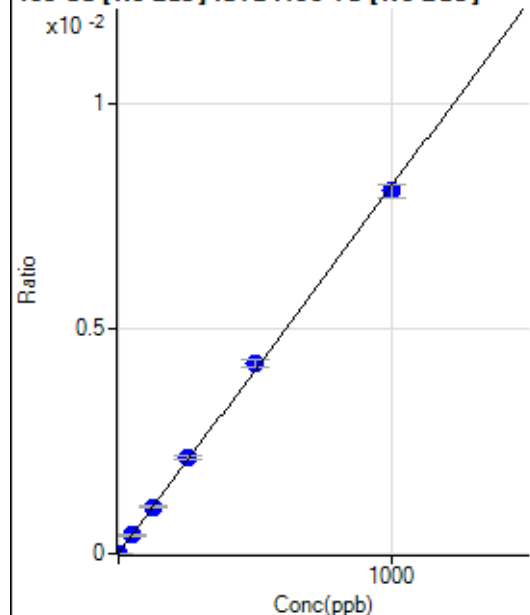
$$R = 0.9998$$

$$DL = 0.01355$$

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	13.89	0.0000	P	46.6
2	☐	0.100	0.226	20.83	0.0000	P	40.2
3	☐	1.000	0.776	37.50	0.0000	P	22.4
4	☐	50.000	51.404	1555.67	0.0004	P	11.1
5	☐	125.000	127.055	3936.73	0.0010	P	1.5
6	☐	250.000	260.667	8024.65	0.0021	P	4.4
7	☐	500.000	519.343	15678.49	0.0042	P	4.4
8	☐	1000.000	987.335	30518.61	0.0081	P	3.8
9	☐			41.67	0.0000	P	10.7

$$y = 8.1726E-006 * x + 3.7036E-006$$

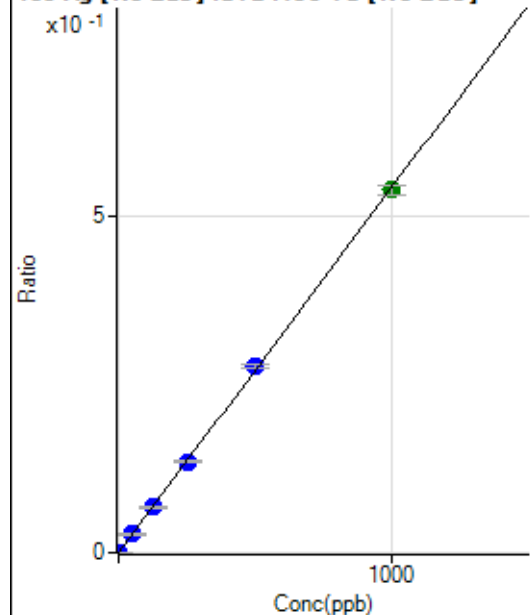
$$R = 0.9997$$

$$DL = 0.6337$$

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	5.55	0.0000	P	86.6
2	☐	0.100	0.075	158.34	0.0000	P	28.8
3	☐	1.000	0.979	1986.30	0.0005	P	11.1
4	☐	50.000	50.655	100767.59	0.0274	P	4.1
5	☐	125.000	125.786	257341.88	0.0681	P	3.6
6	☐	250.000	250.128	509409.32	0.1355	P	1.9
7	☐	500.000	511.520	1022397.65	0.2771	P	2.1
8	☐	1000.000	994.077	2035607.53	0.5384	A	2.4
9	☐			633.36	0.0002	P	12.7

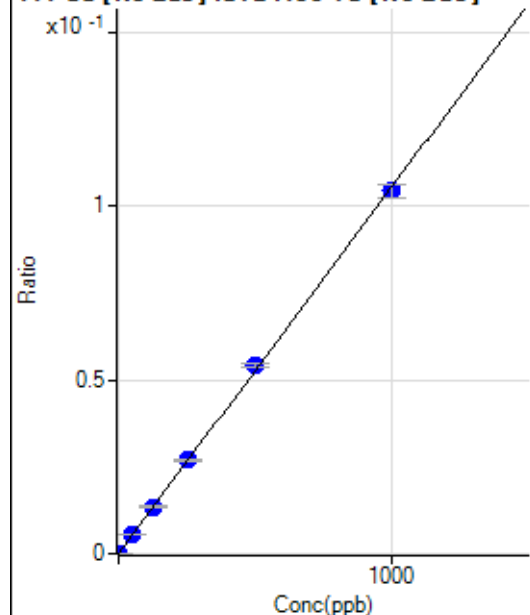
$$y = 5.4162E-004 * x + 1.4757E-006$$

$$R = 0.9999$$

$$DL = 0.00708$$

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	66.67	0.0000	P	4.9
2	☐	0.100	0.100	106.11	0.0000	P	20.6
3	☐	1.000	1.008	462.52	0.0001	P	11.1
4	☐	50.000	51.554	20009.74	0.0054	P	0.5
5	☐	125.000	128.191	51048.37	0.0135	P	3.0
6	☐	250.000	255.526	101219.05	0.0269	P	2.4
7	☐	500.000	515.528	200355.36	0.0543	P	1.9
8	☐	1000.000	990.378	394266.45	0.1043	P	3.4
9	☐			148.76	0.0000	P	22.9

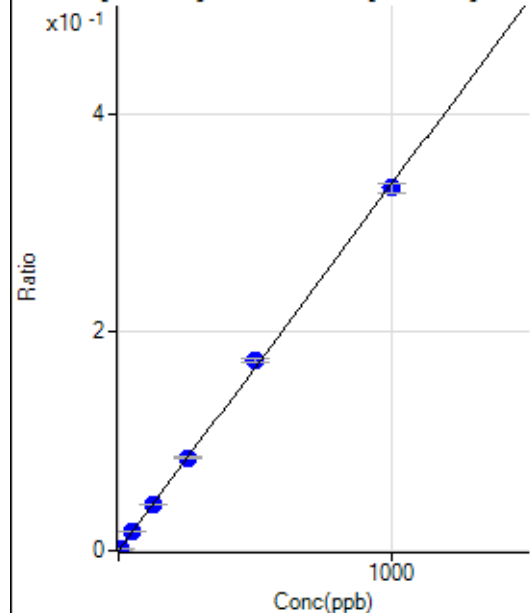
$$y = 1.0528\text{E-}004 * x + 1.7735\text{E-}005$$

$$R = 0.9998$$

$$DL = 0.0246$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	113.89	0.0000	P	11.4
2	☐	0.500	0.515	763.93	0.0002	P	2.2
3	☐	5.000	5.109	6518.36	0.0017	P	7.0
4	☐	50.000	52.734	65119.21	0.0177	P	2.4
5	☐	125.000	126.059	159906.39	0.0423	P	2.6
6	☐	250.000	253.815	320378.54	0.0852	P	1.8
7	☐	500.000	517.931	641543.10	0.1738	P	2.0
8	☐	1000.000	989.811	1255837.33	0.3322	P	2.9
9	☐			850.05	0.0002	P	9.0

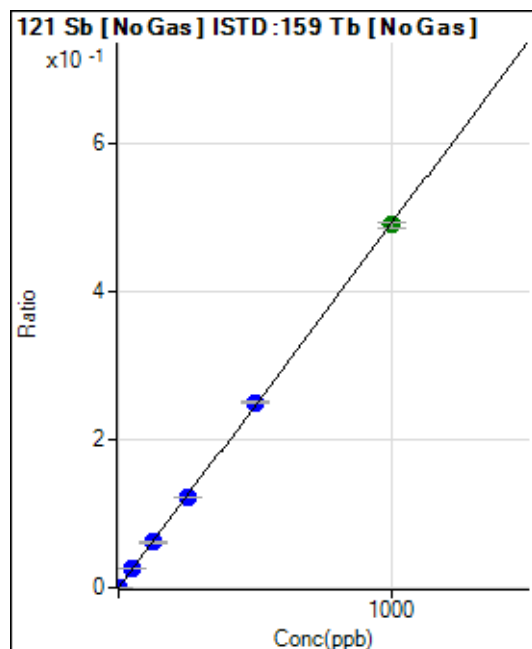
$$y = 3.3557\text{E-}004 * x + 3.0298\text{E-}005$$

$$R = 0.9998$$

$$DL = 0.03086$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	25.00	0.0000	P	57.9
2	☐	0.200	0.201	397.24	0.0001	P	1.6
3	☐	2.000	2.142	3967.36	0.0011	P	5.8
4	☐	50.000	51.472	93194.50	0.0254	P	3.3
5	☐	125.000	124.722	232207.72	0.0615	P	1.4
6	☐	250.000	249.005	461454.58	0.1227	P	1.1
7	☐	500.000	508.530	924882.82	0.2506	P	1.6
8	☐	1000.000	995.945	1855817.10	0.4908	A	1.6
9	☐			1261.21	0.0003	P	3.8

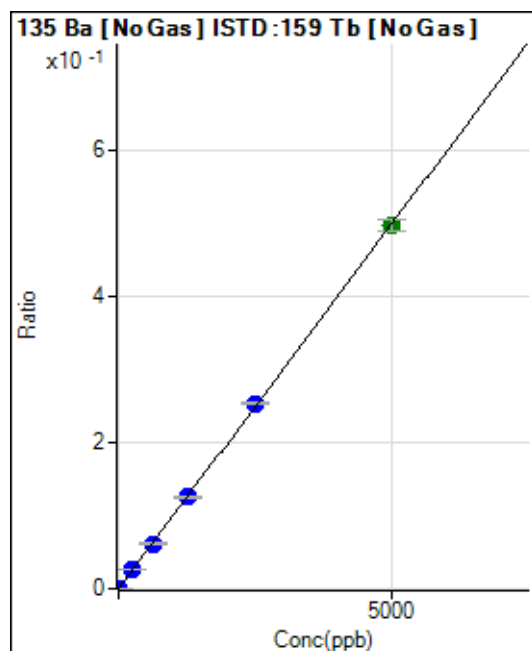
$$y = 4.9280\text{E-}004 * x + 6.6554\text{E-}006$$

$$R = 0.9999$$

$$DL = 0.02347$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5.56	0.0000	P	173.2
2	☐	1.000	1.028	391.69	0.0001	P	8.9
3	☐	10.000	10.795	4034.06	0.0011	P	4.7
4	☐	250.000	253.290	92951.73	0.0253	P	1.6
5	☐	625.000	620.015	233925.63	0.0619	P	2.7
6	☐	1250.000	1255.679	471617.90	0.1254	P	1.0
7	☐	2500.000	2541.332	936697.58	0.2538	P	0.9
8	☐	5000.000	4978.371	1879971.22	0.4972	A	3.3
9	☐			727.82	0.0002	P	21.0

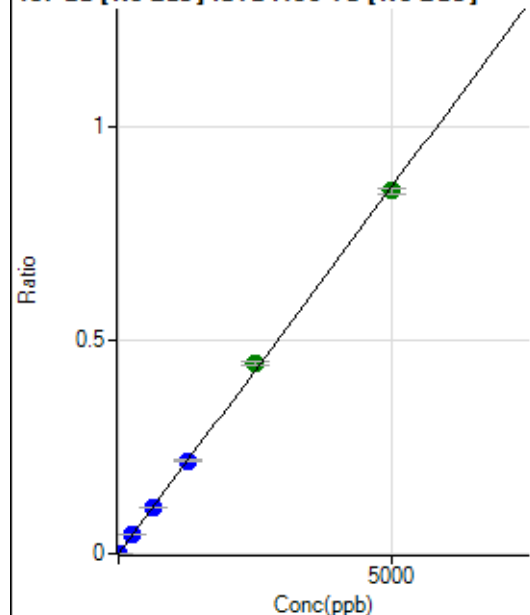
$$y = 9.9880\text{E-}005 * x + 1.4811\text{E-}006$$

$$R = 1.0000$$

$$DL = 0.07705$$

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	5.55	0.0000	P	86.6
2	☐	1.000	0.954	622.25	0.0002	P	8.0
3	☐	10.000	10.273	6612.93	0.0018	P	0.8
4	☐	250.000	259.953	164419.15	0.0448	P	2.1
5	☐	625.000	627.881	408349.15	0.1081	P	2.0
6	☐	1250.000	1265.120	819045.70	0.2178	P	1.3
7	☐	2500.000	2596.805	1649754.43	0.4471	A	1.6
8	☐	5000.000	4946.959	3220034.40	0.8517	A	1.9
9	☐			1300.10	0.0004	P	13.1

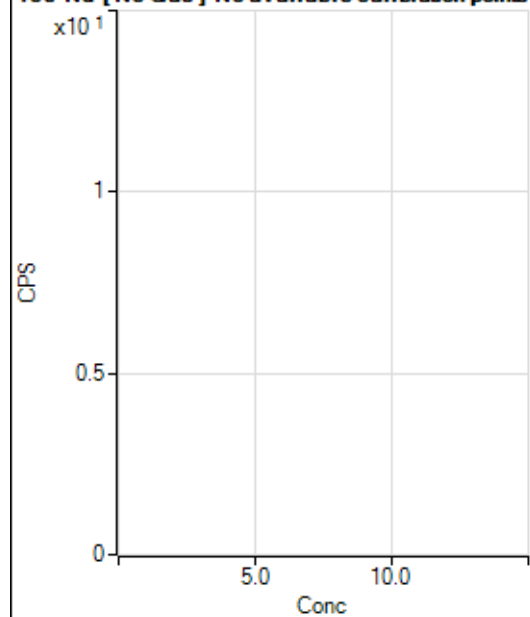
$$y = 1.7216E-004 * x + 1.4712E-006$$

$$R = 0.9997$$

$$DL = 0.0222$$

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	114.5
2	☐			8.89		P	43.3
3	☐			6.67		P	100.0
4	☐			2.22		P	173.2
5	☐			8.89		P	43.3
6	☐			8.89		P	43.3
7	☐			42.22		P	18.2
8	☐			88.89		P	26.3
9	☐			24.45		P	83.3

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			1.11		P	173.2
3	☐			0.00		P	
4	☐			0.00		P	
5	☐			0.00		P	
6	☐			2.22		P	86.6
7	☐			3.33		P	100.1
8	☐			6.67		P	50.0
9	☐			12.22		P	15.7

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.78		P	173.2
2	☐			8.33		P	100.0
3	☐			13.89		P	124.9
4	☐			16.67		P	86.6
5	☐			22.22		P	57.3
6	☐			36.11		P	26.7
7	☐			66.67		P	21.7
8	☐			86.11		P	27.9
9	☐			441.69		P	3.8

156 Dy [He] No available calibration points

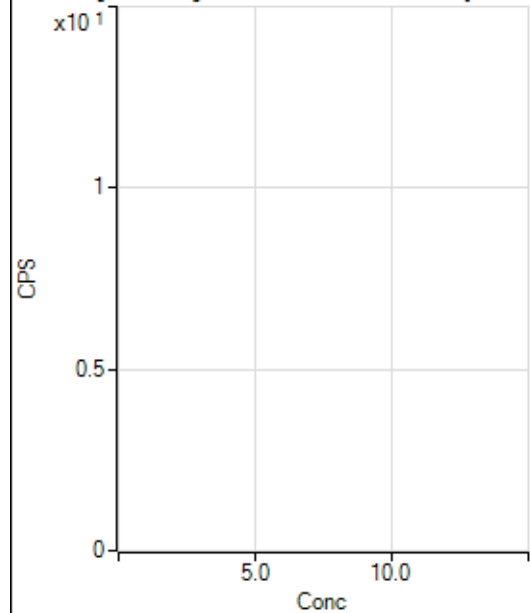
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.2
2	☐			0.00		P	
3	☐			3.33		P	100.1
4	☐			4.45		P	86.6
5	☐			8.89		P	78.1
6	☐			13.33		P	25.0
7	☐			21.11		P	32.9
8	☐			53.33		P	6.3
9	☐			236.67		P	16.9

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			22.22		P	21.6
2	☐			16.67		P	NaN
3	☐			25.00		P	33.3
4	☐			30.56		P	56.8
5	☐			47.22		P	40.8
6	☐			47.22		P	27.0
7	☐			58.33		P	24.7
8	☐			138.90		P	9.2
9	☐			533.36		P	4.7

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			10.00		P	88.2
2	☐			7.78		P	24.7
3	☐			2.22		P	86.6
4	☐			4.45		P	86.6
5	☐			11.11		P	69.3
6	☐			25.56		P	39.8
7	☐			44.45		P	65.5
8	☐			72.22		P	27.0
9	☐			242.23		P	7.1

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			36.11		P	26.7
2	☐			30.56		P	56.8
3	☐			25.00		P	88.2
4	☐			30.56		P	41.7
5	☐			38.89		P	101.3
6	☐			30.56		P	63.0
7	☐			44.44		P	28.6
8	☐			41.67		P	20.0
9	☐			77.78		P	30.9

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			11.11		P	34.6
2	☐			13.33		P	109.0
3	☐			3.33		P	100.1
4	☐			7.78		P	24.7
5	☐			11.11		P	34.6
6	☐			10.00		P	33.3
7	☐			12.22		P	41.7
8	☐			25.56		P	19.9
9	☐			38.89		P	21.6

172 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			16.67		P	100.0
2	☐			8.33		P	0.0
3	☐			16.67		P	86.6
4	☐			13.89		P	91.6
5	☐			16.67		P	NaN
6	☐			19.45		P	107.9
7	☐			22.22		P	57.3
8	☐			13.89		P	34.7
9	☐			27.78		P	17.3

172 Yb [He] No available calibration points

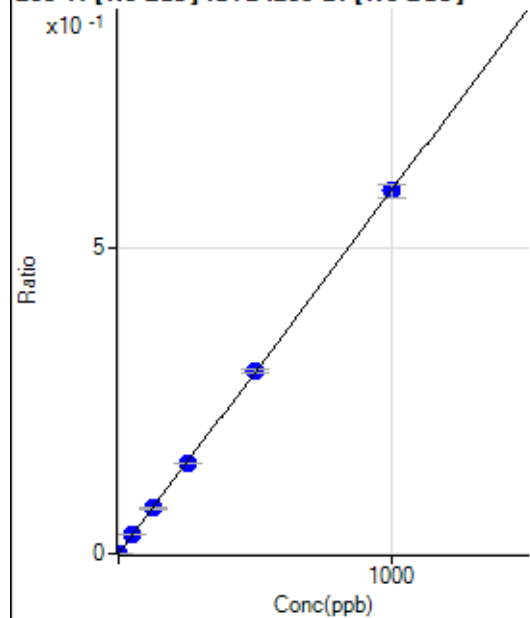
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.56		P	100.0
2	☐			5.56		P	NaN
3	☐			9.26		P	69.2
4	☐			5.56		P	100.0
5	☐			3.71		P	86.6
6	☐			7.41		P	43.2
7	☐			1.85		P	173.2
8	☐			0.00		P	
9	☐			20.37		P	31.5

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			402.80		P	19.2
2	☐			327.79		P	16.9
3	☐			469.46		P	9.8
4	☐			327.79		P	14.0
5	☐			463.91		P	9.2
6	☐			405.58		P	11.7
7	☐			444.46		P	18.8
8	☐			375.02		P	19.0
9	☐			413.91		P	13.4

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			246.30		P	11.4
2	☐			235.19		P	9.8
3	☐			244.45		P	6.0
4	☐			200.01		P	17.3
5	☐			200.01		P	8.3
6	☐			222.23		P	18.9
7	☐			207.42		P	21.5
8	☐			224.08		P	13.7
9	☐			185.19		P	21.7

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	155.56	0.0001	P	29.5
2	☐	0.100	0.127	322.23	0.0001	P	17.1
3	☐	1.000	1.001	1461.24	0.0007	P	2.4
4	☐	50.000	50.904	65097.12	0.0303	P	1.2
5	☐	125.000	124.924	163070.87	0.0742	P	2.8
6	☐	250.000	247.922	323338.45	0.1472	P	1.2
7	☐	500.000	502.739	648397.57	0.2983	P	2.1
8	☐	1000.000	999.114	1292220.44	0.5928	P	3.6
9	☐			530.58	0.0003	P	23.0

$$y = 5.9327E-004 * x + 7.0983E-005$$

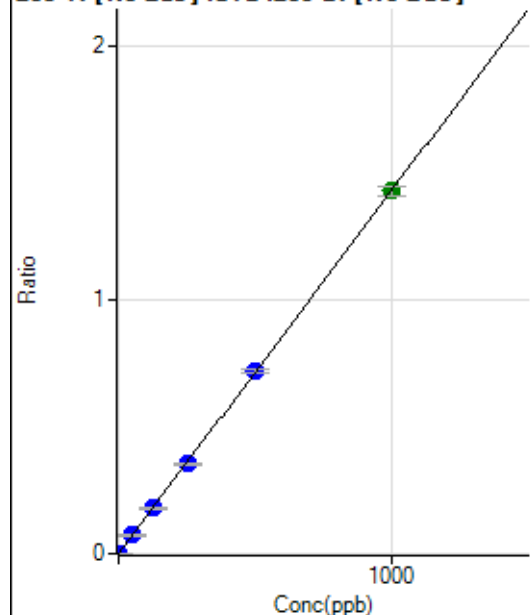
$$R = 1.0000$$

$$DL = 0.1059$$

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	325.02	0.0001	P	6.7
2	☐	0.100	0.126	722.26	0.0003	P	18.0
3	☐	1.000	0.991	3436.67	0.0016	P	1.1
4	☐	50.000	50.403	155042.16	0.0721	P	2.5
5	☐	125.000	124.719	391715.70	0.1782	P	2.4
6	☐	250.000	247.104	775402.12	0.3529	P	1.1
7	☐	500.000	502.243	1558596.68	0.7171	P	1.8
8	☐	1000.000	999.617	3111256.97	1.4271	A	2.3
9	☐			1247.32	0.0006	P	10.0

$$y = 0.0014 * x + 1.4829E-004$$

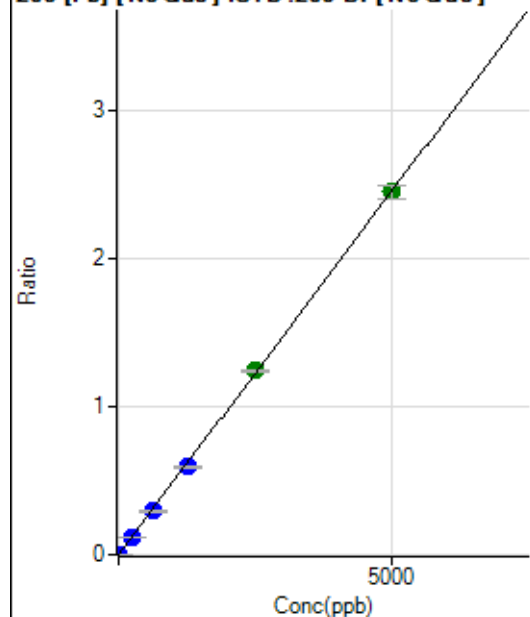
$$R = 1.0000$$

$$DL = 0.02075$$

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	140.74	0.0001	P	10.6
2	☐	0.100	0.113	262.97	0.0001	P	10.9
3	☐	1.000	0.998	1214.90	0.0006	P	4.7
4	☐	250.000	246.743	260033.94	0.1209	P	1.6
5	☐	625.000	604.367	650813.22	0.2961	P	3.3
6	☐	1250.000	1204.819	1296724.74	0.5902	P	1.9
7	☐	2500.000	2536.737	2700708.45	1.2426	A	1.3
8	☐	5000.000	4995.669	5333693.11	2.4470	A	3.9
9	☐			10997.41	0.0053	P	4.2

$$y = 4.8980E-004 * x + 6.4248E-005$$

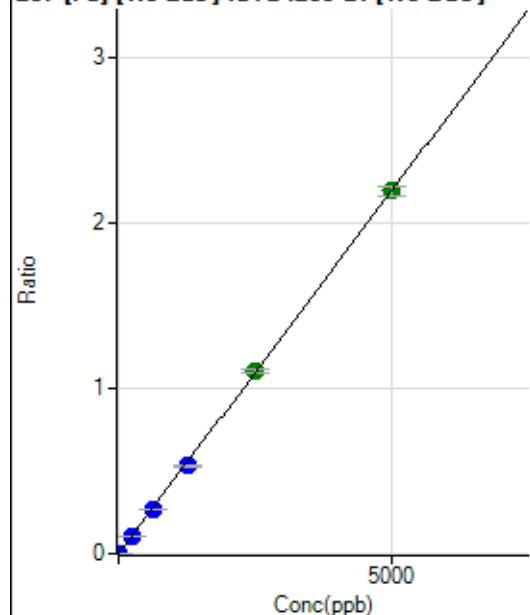
$$R = 0.9999$$

$$DL = 0.04191$$

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	166.67	0.0001	P	8.7
2	☐	0.100	0.045	211.12	0.0001	P	3.7
3	☐	1.000	0.968	1100.07	0.0005	P	3.8
4	☐	250.000	247.245	233403.27	0.1085	P	2.1
5	☐	625.000	608.249	586634.07	0.2669	P	3.5
6	☐	1250.000	1215.392	1171585.20	0.5332	P	1.9
7	☐	2500.000	2518.484	2401291.03	1.1049	A	2.1
8	☐	5000.000	5001.642	4783331.47	2.1941	A	2.6
9	☐			9974.37	0.0048	P	6.9

$$y = 4.3867E-004 * x + 7.6042E-005$$

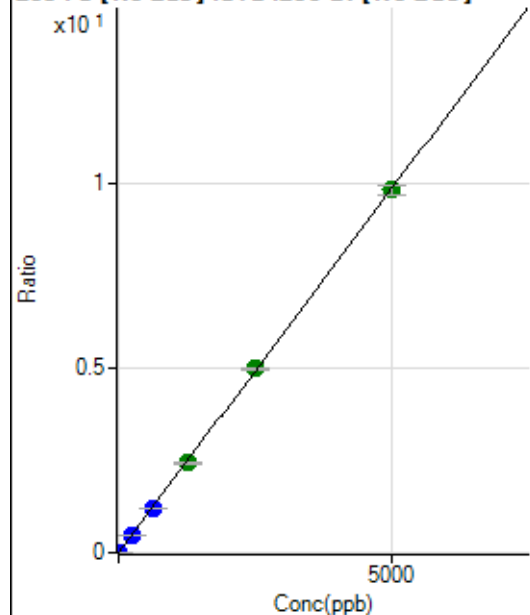
$$R = 1.0000$$

$$DL = 0.04517$$

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	694.47	0.0003	P	4.1
2	☒	0.100					
3	☐	1.000	0.958	4839.33	0.0022	P	1.4
4	☐	250.000	247.899	1049904.28	0.4882	P	1.6
5	☐	625.000	610.811	2643118.56	1.2025	P	3.3
6	☐	1250.000	1242.000	5371374.09	2.4448	A	2.1
7	☐	2500.000	2531.095	10828228.95	4.9819	A	1.2
8	☐	5000.000	4988.331	21403204.24	9.8181	A	2.9
9	☐			44671.43	0.0215	P	2.8

$$y = 0.0020 * x + 3.1690E-004$$

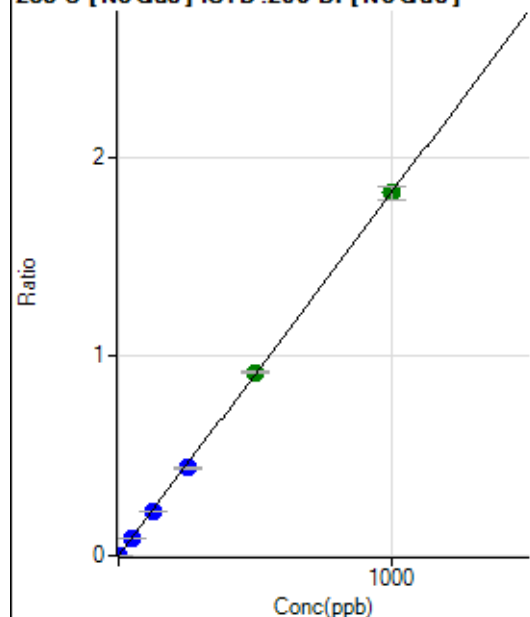
$$R = 1.0000$$

$$DL = 0.01993$$

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	8.33	0.0000	P	100.3
2	☐	0.100	0.091	372.24	0.0002	P	12.6
3	☐	1.000	0.989	3972.95	0.0018	P	2.8
4	☐	50.000	49.389	193605.38	0.0900	P	2.8
5	☐	125.000	121.356	486273.39	0.2212	P	3.2
6	☐	250.000	242.467	971162.53	0.4420	P	1.5
7	☐	500.000	505.608	2003178.41	0.9217	A	1.6
8	☐	1000.000	999.565	3971738.06	1.8221	A	3.7
9	☐			458.36	0.0002	P	14.1

$$y = 0.0018 * x + 3.8203E-006$$

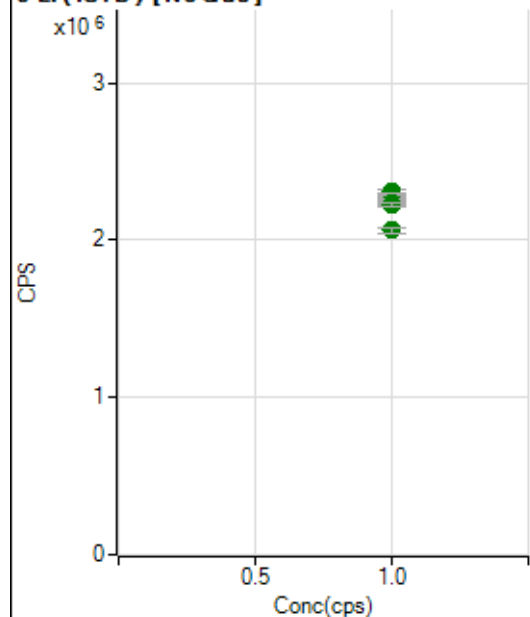
$$R = 0.9999$$

$$DL = 0.006305$$

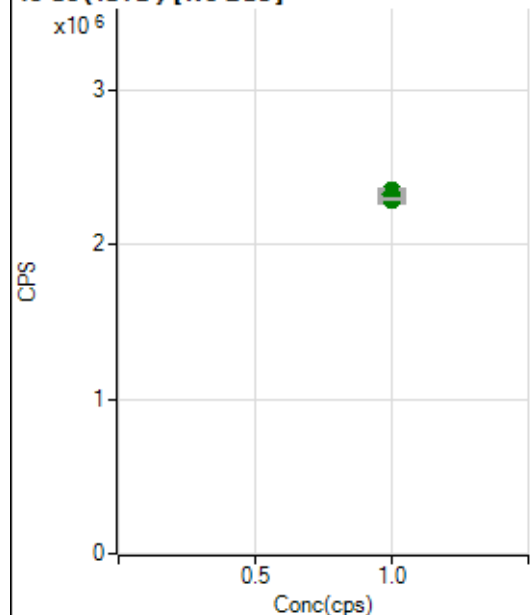
Weight: <None>

Min Conc: 0

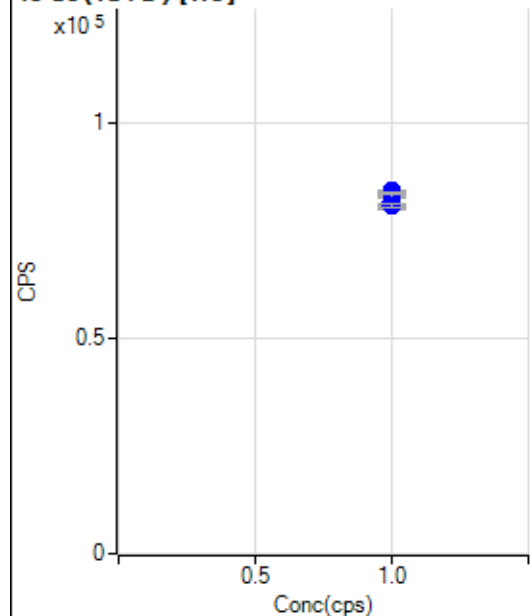
6 Li (ISTD) [No Gas]



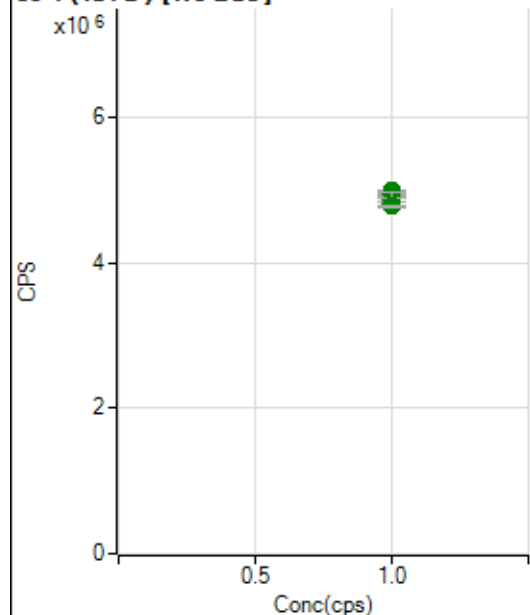
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2261500.77		A	1.5
2	☐	1.000		2226353.11		A	1.2
3	☐	1.000		2307679.26		A	1.9
4	☐	1.000		2286580.90		A	1.7
5	☐	1.000		2294794.86		A	0.4
6	☐	1.000		2225890.56		A	0.5
7	☐	1.000		2241049.23		A	1.6
8	☐	1.000		2230352.29		A	1.0
9	☐	1.000		2062692.31		A	2.1

45 Sc (ISTD) [No Gas]

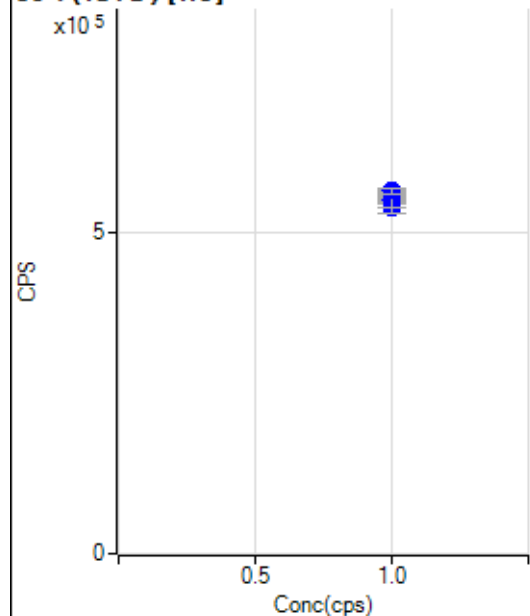
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2345490.22		A	1.1
2	☐	1.000		2299297.31		A	2.1
3	☐	1.000		2324176.18		A	0.3
4	☐	1.000		2304822.33		A	1.7
5	☐	1.000		2327872.02		A	1.9
6	☐	1.000		2281782.01		A	1.3
7	☐	1.000		2308663.14		A	0.7
8	☐	1.000		2297299.72		A	1.7
9	☐	1.000		2291344.32		A	0.8

45 Sc (ISTD) [He]

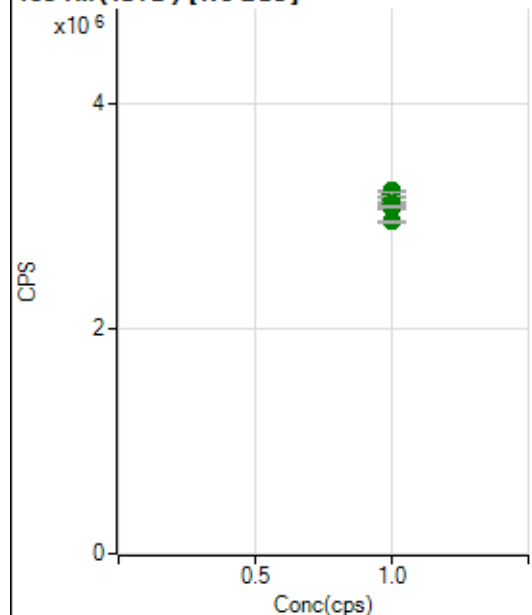
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		84339.87		P	0.7
2	☐	1.000		84345.64		P	0.9
3	☐	1.000		81773.41		P	1.7
4	☐	1.000		83400.22		P	1.0
5	☐	1.000		83723.08		P	0.7
6	☐	1.000		83890.74		P	0.8
7	☐	1.000		83774.47		P	0.8
8	☐	1.000		81945.70		P	4.4
9	☐	1.000		80887.16		P	1.3

89 Y (ISTD) [No Gas]

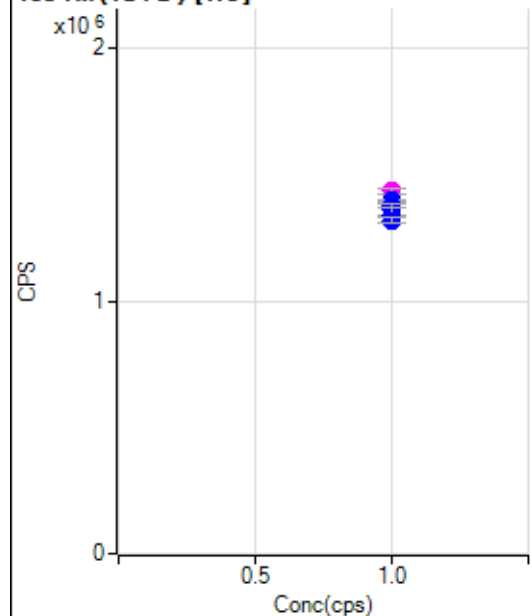
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4988336.14		A	0.2
2	☐	1.000		4965359.68		A	0.9
3	☐	1.000		4900306.18		A	0.6
4	☐	1.000		4807484.72		A	1.0
5	☐	1.000		4923463.64		A	1.3
6	☐	1.000		4910859.68		A	0.4
7	☐	1.000		4869139.10		A	1.4
8	☐	1.000		4932175.06		A	1.5
9	☐	1.000		4775681.67		A	0.3

89 Y (ISTD) [He]

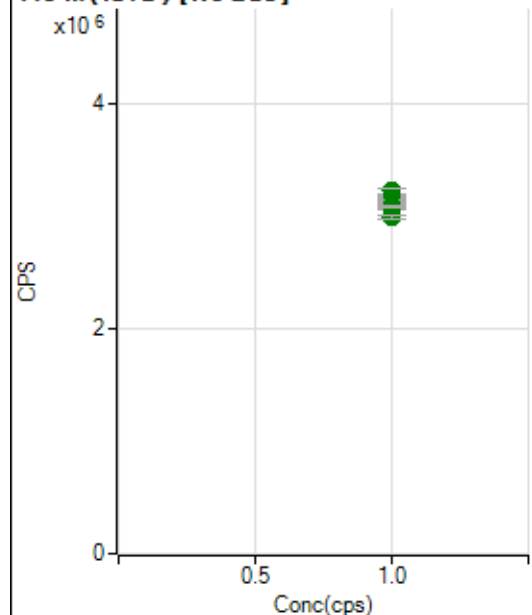
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		563588.84		P	0.9
2	☐	1.000		551710.80		P	1.1
3	☐	1.000		537639.96		P	2.8
4	☐	1.000		550734.90		P	1.4
5	☐	1.000		556558.22		P	1.7
6	☐	1.000		555842.04		P	0.4
7	☐	1.000		558898.10		P	0.4
8	☐	1.000		551296.32		P	4.6
9	☐	1.000		564183.41		P	1.3

103 Rh (ISTD) [No Gas]

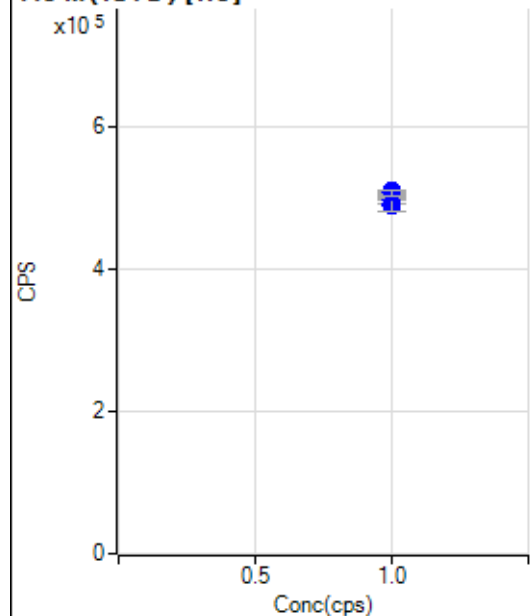
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3220240.70		A	0.2
2	☐	1.000		3193990.94		A	1.0
3	☐	1.000		3198098.70		A	1.0
4	☐	1.000		3134125.72		A	2.0
5	☐	1.000		3191851.48		A	1.5
6	☐	1.000		3105941.84		A	1.0
7	☐	1.000		3076069.17		A	1.0
8	☐	1.000		3082065.39		A	1.0
9	☐	1.000		2948243.15		A	0.5

103 Rh (ISTD) [He]

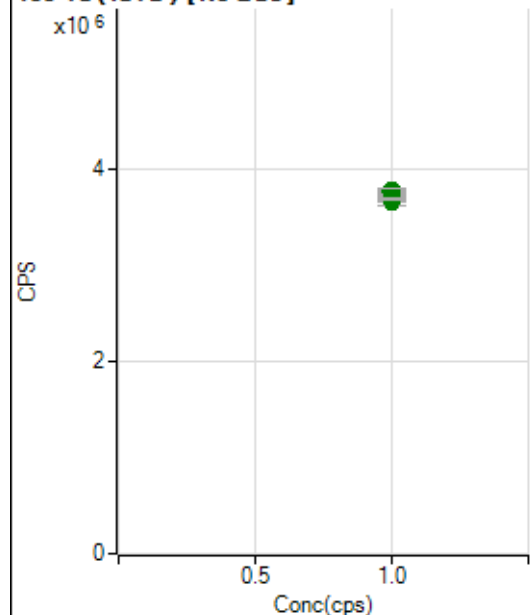
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1437236.13		M	1.4
2	☐	1.000		1392174.37		P	1.1
3	☐	1.000		1366753.23		P	3.5
4	☐	1.000		1379451.07		P	0.8
5	☐	1.000		1398447.43		P	0.2
6	☐	1.000		1394997.22		P	0.4
7	☐	1.000		1378002.05		P	1.1
8	☐	1.000		1340415.75		P	4.2
9	☐	1.000		1319656.21		P	1.5

115 In (ISTD) [No Gas]

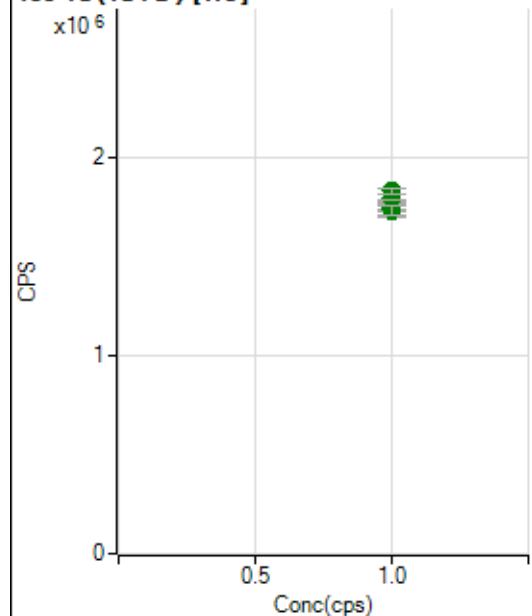
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3219158.61		A	1.3
2	☐	1.000		3148133.01		A	0.4
3	☐	1.000		3160436.01		A	0.4
4	☐	1.000		3117242.04		A	0.7
5	☐	1.000		3132439.83		A	1.1
6	☐	1.000		3122911.63		A	0.6
7	☐	1.000		3063571.40		A	0.7
8	☐	1.000		3080066.95		A	1.0
9	☐	1.000		2988741.65		A	1.1

115 In (ISTD) [He]

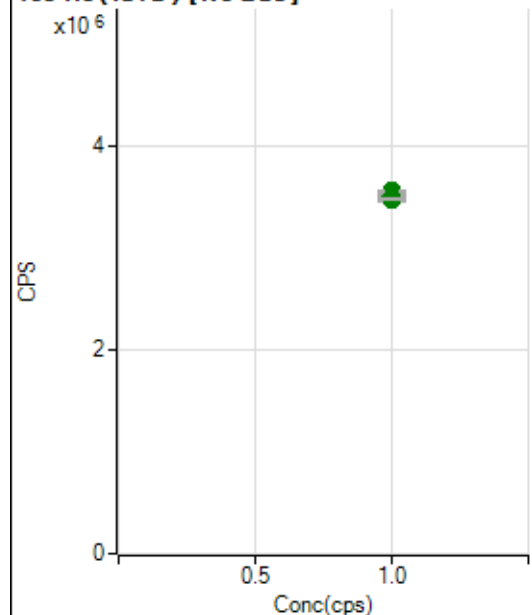
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		510958.32		P	0.2
2	☐	1.000		500949.81		P	0.5
3	☐	1.000		489426.64		P	3.5
4	☐	1.000		497058.88		P	1.3
5	☐	1.000		504157.83		P	1.4
6	☐	1.000		502477.17		P	0.5
7	☐	1.000		505531.02		P	0.5
8	☐	1.000		491624.00		P	3.8
9	☐	1.000		508627.24		P	1.8

159 Tb (ISTD) [No Gas]

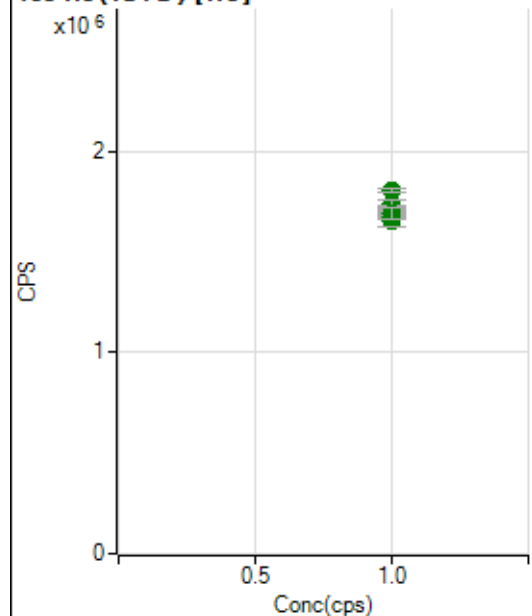
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3759585.64		A	0.9
2	☐	1.000		3757627.41		A	1.3
3	☐	1.000		3735995.29		A	0.6
4	☐	1.000		3674828.49		A	2.2
5	☐	1.000		3777766.47		A	0.6
6	☐	1.000		3760582.90		A	1.0
7	☐	1.000		3690500.92		A	1.2
8	☐	1.000		3781411.05		A	1.7
9	☐	1.000		3702009.01		A	0.7

159 Tb (ISTD) [He]

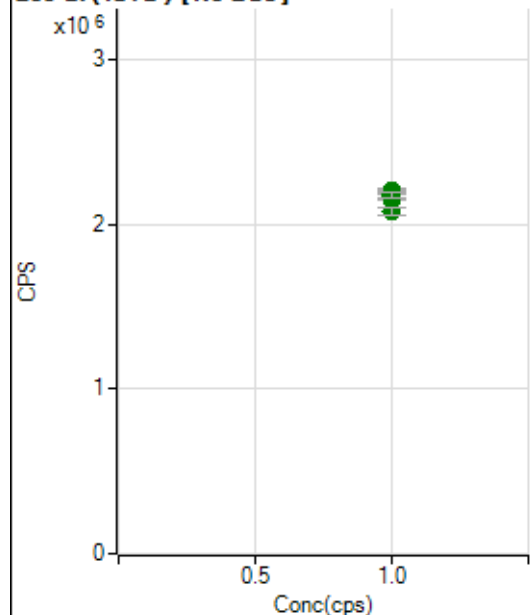
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1775882.86		A	1.8
2	☐	1.000		1757089.76		A	2.1
3	☐	1.000		1730372.63		A	3.0
4	☐	1.000		1747424.87		A	2.4
5	☐	1.000		1750946.85		A	1.5
6	☐	1.000		1772349.66		A	0.3
7	☐	1.000		1802215.34		A	1.4
8	☐	1.000		1735379.16		A	2.6
9	☐	1.000		1833295.98		A	1.5

165 Ho (ISTD) [No Gas]

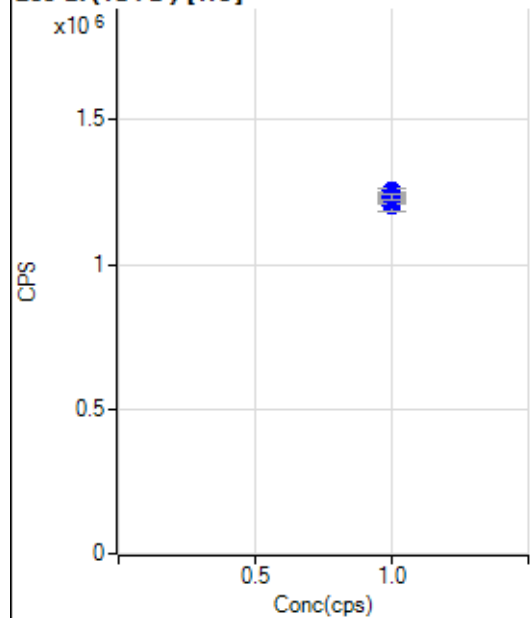
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3534346.30		A	1.0
2	☐	1.000		3513774.47		A	1.5
3	☐	1.000		3566844.13		A	0.7
4	☐	1.000		3470827.99		A	1.1
5	☐	1.000		3552669.39		A	0.6
6	☐	1.000		3513032.85		A	0.2
7	☐	1.000		3497103.59		A	0.4
8	☐	1.000		3523560.02		A	1.4
9	☐	1.000		3492774.60		A	0.3

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1726134.70		A	1.0
2	☐	1.000		1693929.54		A	2.0
3	☐	1.000		1656693.57		A	3.7
4	☐	1.000		1678606.88		A	1.6
5	☐	1.000		1714481.17		A	1.7
6	☐	1.000		1718329.78		A	0.5
7	☐	1.000		1745434.92		A	1.1
8	☐	1.000		1696778.98		A	3.3
9	☐	1.000		1804724.87		A	1.0

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2191712.90		A	0.7
2	☐	1.000		2200942.26		A	1.0
3	☐	1.000		2198183.14		A	1.2
4	☐	1.000		2150586.08		A	0.5
5	☐	1.000		2198887.35		A	1.7
6	☐	1.000		2197449.93		A	1.1
7	☐	1.000		2173698.89		A	1.0
8	☐	1.000		2180636.03		A	1.6
9	☐	1.000		2076210.73		A	1.9

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1227432.79		P	0.5
2	☐	1.000		1220652.56		P	0.6
3	☐	1.000		1202744.60		P	3.0
4	☐	1.000		1228059.26		P	1.5
5	☐	1.000		1243324.02		P	0.8
6	☐	1.000		1247069.15		P	0.2
7	☐	1.000		1253950.15		P	1.1
8	☐	1.000		1226134.28		P	3.2
9	☐	1.000		1233117.27		P	1.3

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8052021-MS.b
Acq. Date-Time 2021-05-20 14:01:18
Report Comment ---
Instrument Name G8403A SG19224459

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		4910	49095.00			0.543	5.000
24		18005	180048.72			0.694	5.000
25		2478	24776.66			0.982	5.000
26		2877	28768.86			0.950	5.000
59		4545	45448.29			1.022	5.000
113		2054	20540.50			1.506	5.000
115		5775	57754.26			1.560	5.000
206		2519	25186.39			1.420	5.000
207		2108	21078.13			1.941	5.000
208		5160	51603.84			2.327	5.000
220		1	8.10			14.076	

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

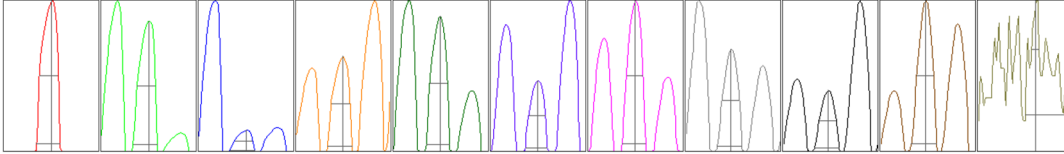
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	4873	4890	4937	4926	4922
24	17889	17978	18017	17929	18211
25	2466	2454	2491	2464	2514
26	2873	2879	2840	2875	2917
59	4508	4533	4519	4540	4625
113	2008	2083	2045	2052	2082
115	5647	5868	5741	5768	5854
206	2458	2531	2521	2529	2554
207	2046	2119	2092	2128	2154
208	4979	5201	5150	5161	5312

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	8801.91	9.05	8.90 - 9.10	
24	32852.14	24.05	23.90 - 24.10	
25	4504.46	25.05	24.90 - 25.10	
26	5162.28	26.00	25.90 - 26.10	
59	8656.40	59.00	58.90 - 59.10	
113	4059.80	113.00	112.90 - 113.10	
115	11538.07	115.00	114.90 - 115.10	
206	4804.03	205.95	205.90 - 206.10	
207	4032.82	206.95	206.90 - 207.10	
208	10020.67	207.95	207.90 - 208.10	
220	1.20	220.35	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.59	0.736	0.900	
24	0.57	0.773	0.900	
25	0.57	0.781	0.900	
26	0.60	0.781	0.900	
59	0.55	0.737	0.900	
113	0.52	0.690	0.900	
115	0.51	0.753	0.900	
206	0.55	0.779	0.900	
207	0.54	0.782	0.900	
208	0.54	0.798	0.900	
220	0.24	1.459		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode HMI Nebulizer Gas 0.47 L/min Dilution Gas 0.43 L/min

US EPA Tune Check Report

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

Lens Parameters

Extract 1	-6.0 V	Omega Lens	9.6 V	Deflect	16.2 V
Extract 2	-205.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-110 V	Cell Exit	-50 V		

Cell Parameters

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

QP Parameters

Mass Gain	122	Axis Gain	0.9990	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	0.00		

Hardware Settings

Torch

Torch H	1.1 mm	Torch V	-0.9 mm
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EM

Discriminator	3.9 mV	Analog HV	2198 V	Pulse HV	1484 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		991	9910.33			1.264	
89		2554	25536.28			0.649	
205		2106	21055.95			1.870	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	994	996	977	1008	980
89	2574	2558	2536	2537	2563
205	2147	2142	2063	2070	2106

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	HMI	Nebulizer Gas	0.47 L/min	Dilution Gas	0.43 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	9.6 V	Deflect	5.0 V
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US EPA Tune Check Report

Extract 2	-205.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-110 V	Cell Exit	-70 V		
Cell Parameters					
Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	4.5 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	190 V		
QP Parameters					
Mass Gain	122	Axis Gain	0.9990	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	0.00		
Hardware Settings					
Torch					
Torch H	1.1 mm	Torch V	-0.9 mm		
EM					
Discriminator	3.9 mV	Analog HV	2198 V	Pulse HV	1484 V