



Appendix C

RF Test Data for 2.4GWIFI(Conducted Measurement)

Product Name: Mini PC

Trade Mark: 2BQM5-N30

Test Model: N30

Environmental Conditions

Temperature:	24.6° C
Relative Humidity:	52.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Emiya lin
Supervised by:	Simba Haung



Contents

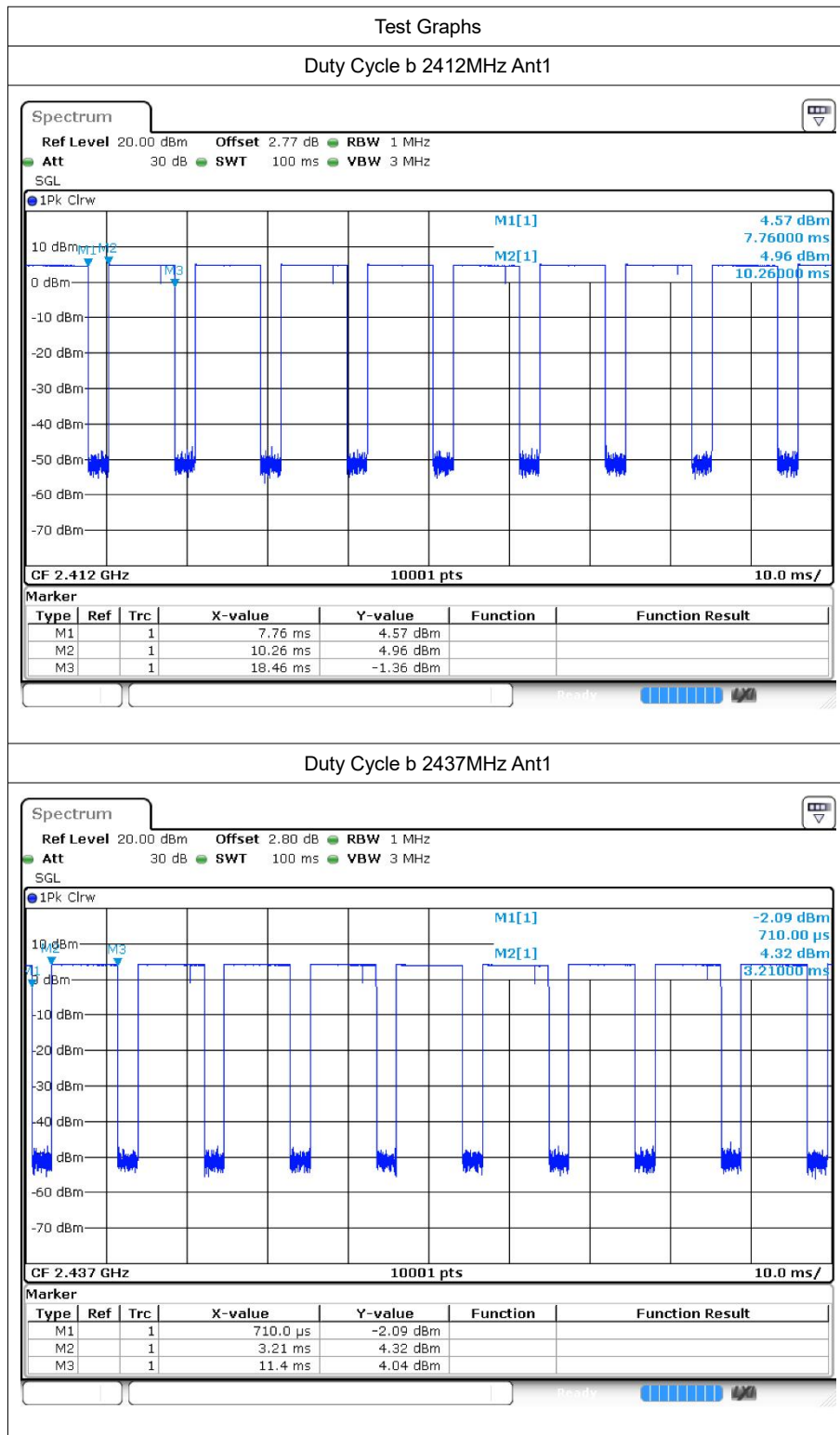
	Page
COVER PAGE	
1 Duty Cycle.....	3
1.1 Test Result.....	3
1.2 Test Graphs.....	4
2 Maximum Conducted Output Power.....	22
2.1 Test Result.....	22
3 -6dB Bandwidth.....	24
3.1 Test Result.....	24
3.2 Test Graphs.....	25
4 Maximum Power Spectral Density Level.....	43
4.1 Test Result.....	43
4.2 Test Graphs.....	46
5 Band Edge.....	64
5.1 Test Result.....	64
5.2 Test Graphs.....	65
6 Conducted RF Spurious Emission.....	89
6.1 Test Result.....	89
6.2 Test Graphs.....	91
7 Restrict Band.....	127
7.1 Test Result.....	127
7.2 Test Graphs.....	131

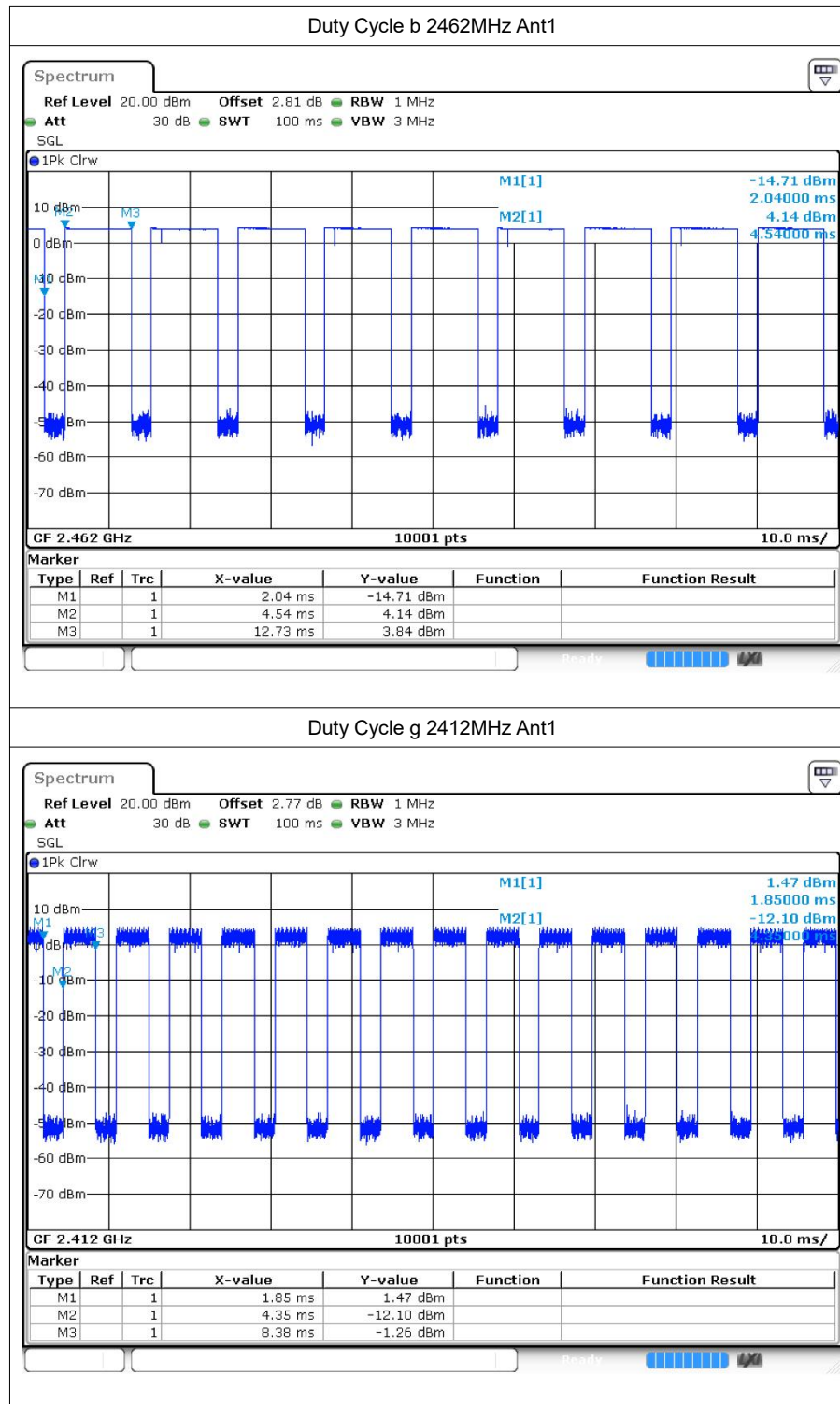
Duty Cycle

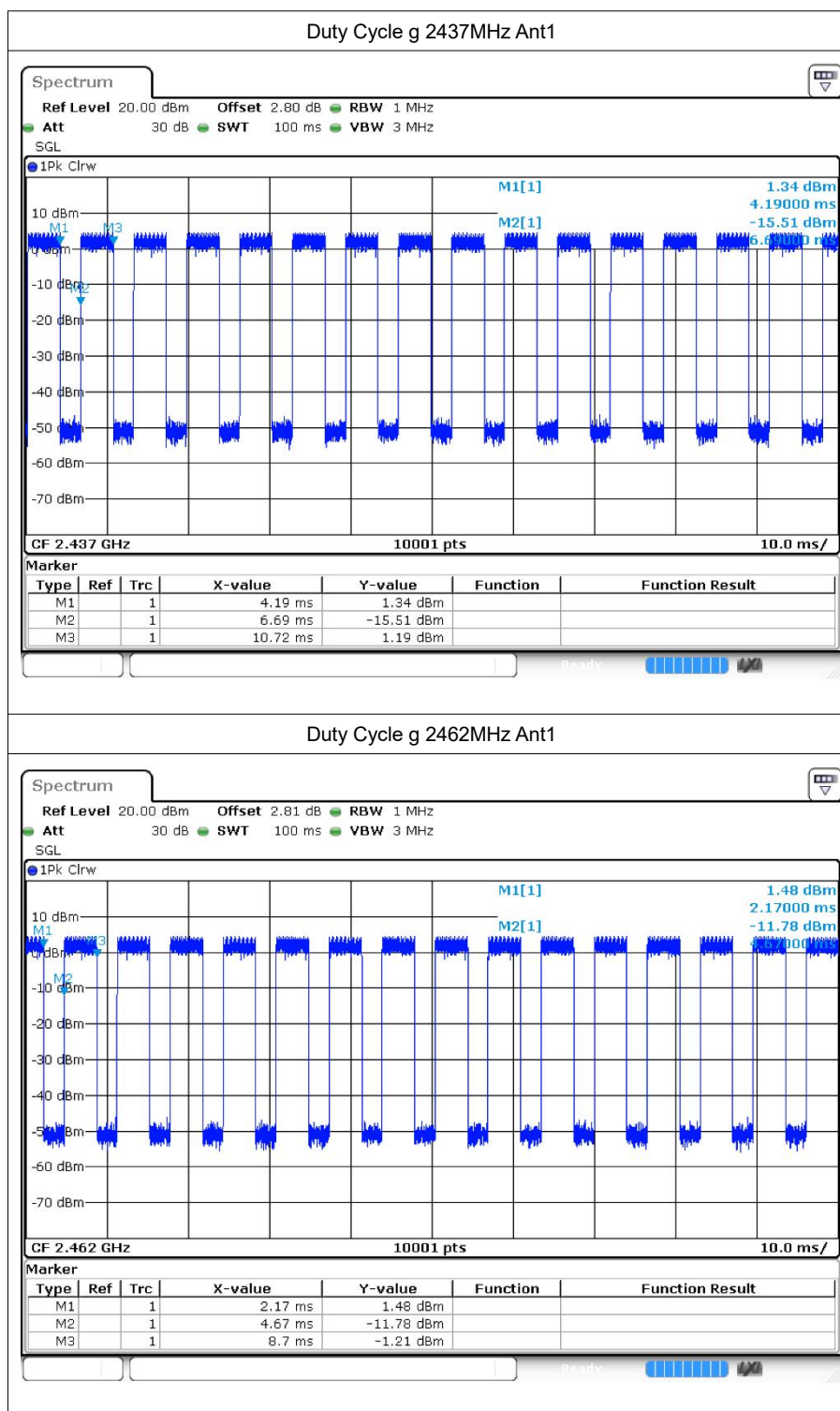
1.1 Test Result

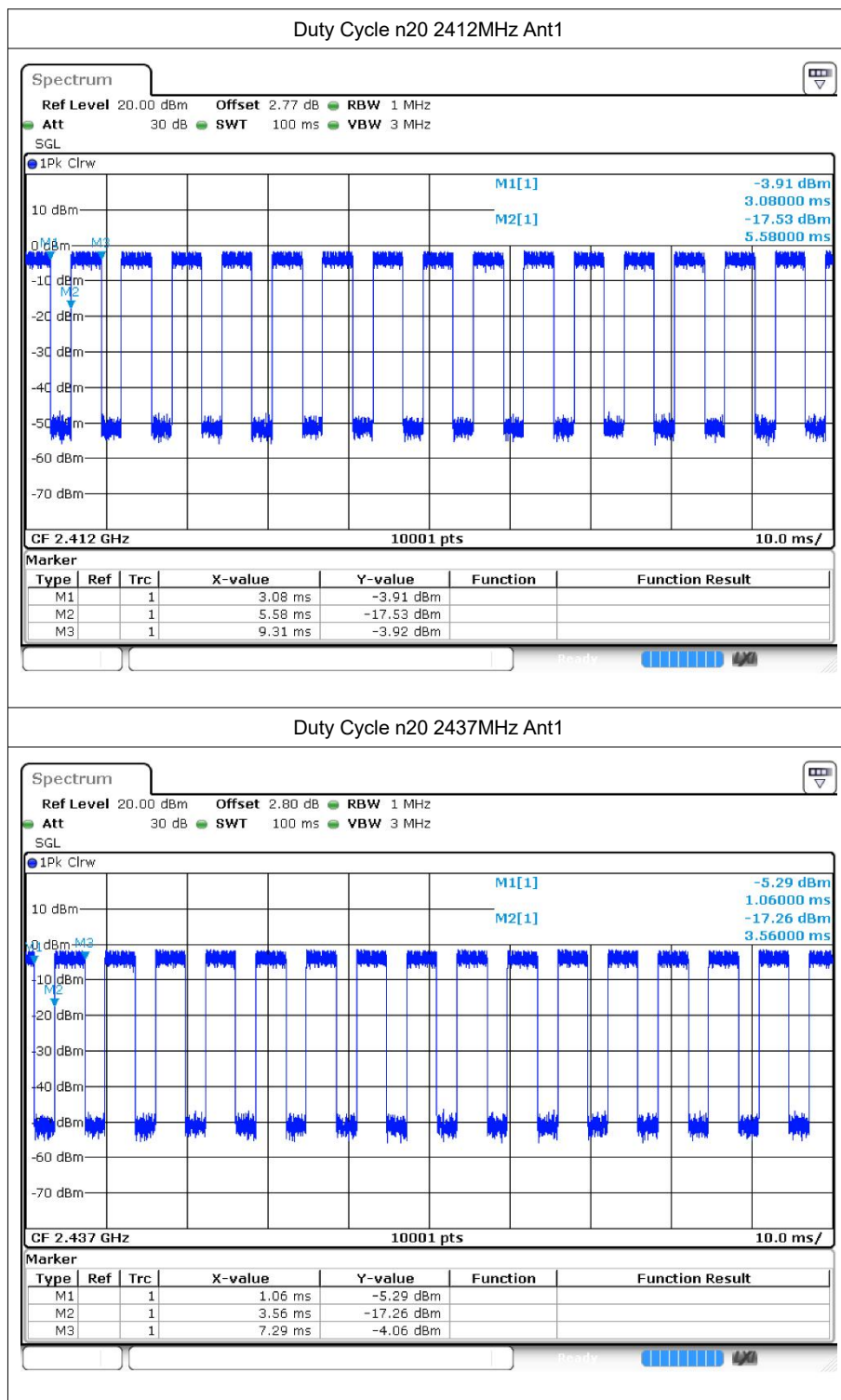
Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor	1/T (kHz)
b	2412	Ant1	77.59	1.1	0.12
b	2437	Ant1	75.1	1.24	0.12
b	2462	Ant1	75.85	1.2	0.12
g	2412	Ant1	77.59	1.1	0.12
g	2437	Ant1	75.1	1.24	0.12
g	2462	Ant1	75.85	1.2	0.12
n20	2412	Ant1	60.13	2.21	0.27
n20	2437	Ant1	60.13	2.21	0.27
n20	2462	Ant1	59.88	2.23	0.27
n40	2422	Ant1	58.37	2.34	0.28
n40	2437	Ant1	59.77	2.23	0.28
n40	2452	Ant1	59.62	2.25	0.28
ax20	2412	Ant1	57.63	2.39	0.3
ax20	2437	Ant1	57.23	2.42	0.3
ax20	2462	Ant1	57.65	2.39	0.3
ax40	2422	Ant1	57.5	2.4	0.3
ax40	2437	Ant1	57.49	2.4	0.3
ax40	2452	Ant1	57.5	2.4	0.3
b	2412	Ant2	75.05	1.25	0.12
b	2437	Ant2	75.9	1.2	0.12
b	2462	Ant2	76.49	1.16	0.12
g	2412	Ant2	75.05	1.25	0.12
g	2437	Ant2	75.9	1.2	0.12
g	2462	Ant2	76.49	1.16	0.12
n20	2412	Ant2	60.14	2.21	0.27
n20	2437	Ant2	59.88	2.23	0.27
n20	2462	Ant2	59.86	2.23	0.27
n40	2422	Ant2	60.12	2.21	0.28
n40	2437	Ant2	58.93	2.3	0.28
n40	2452	Ant2	58.73	2.31	0.28
ax20	2412	Ant2	57.21	2.42	0.3
ax20	2437	Ant2	57.63	2.39	0.3
ax20	2462	Ant2	57.63	2.39	0.3
ax40	2422	Ant2	57.62	2.39	0.3
ax40	2437	Ant2	57.64	2.39	0.3
ax40	2452	Ant2	57.55	2.4	0.3

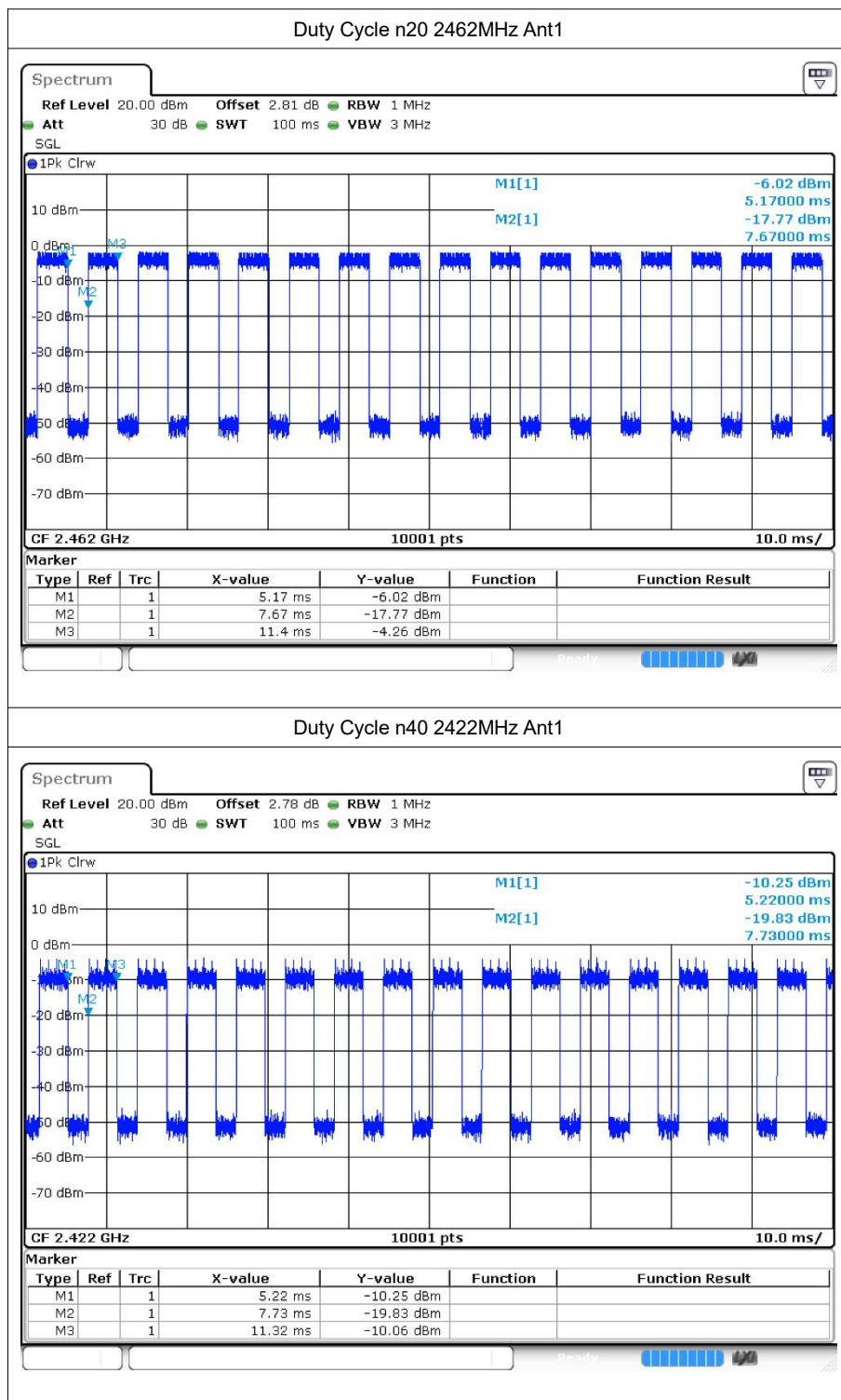
1.2 Test Graphs

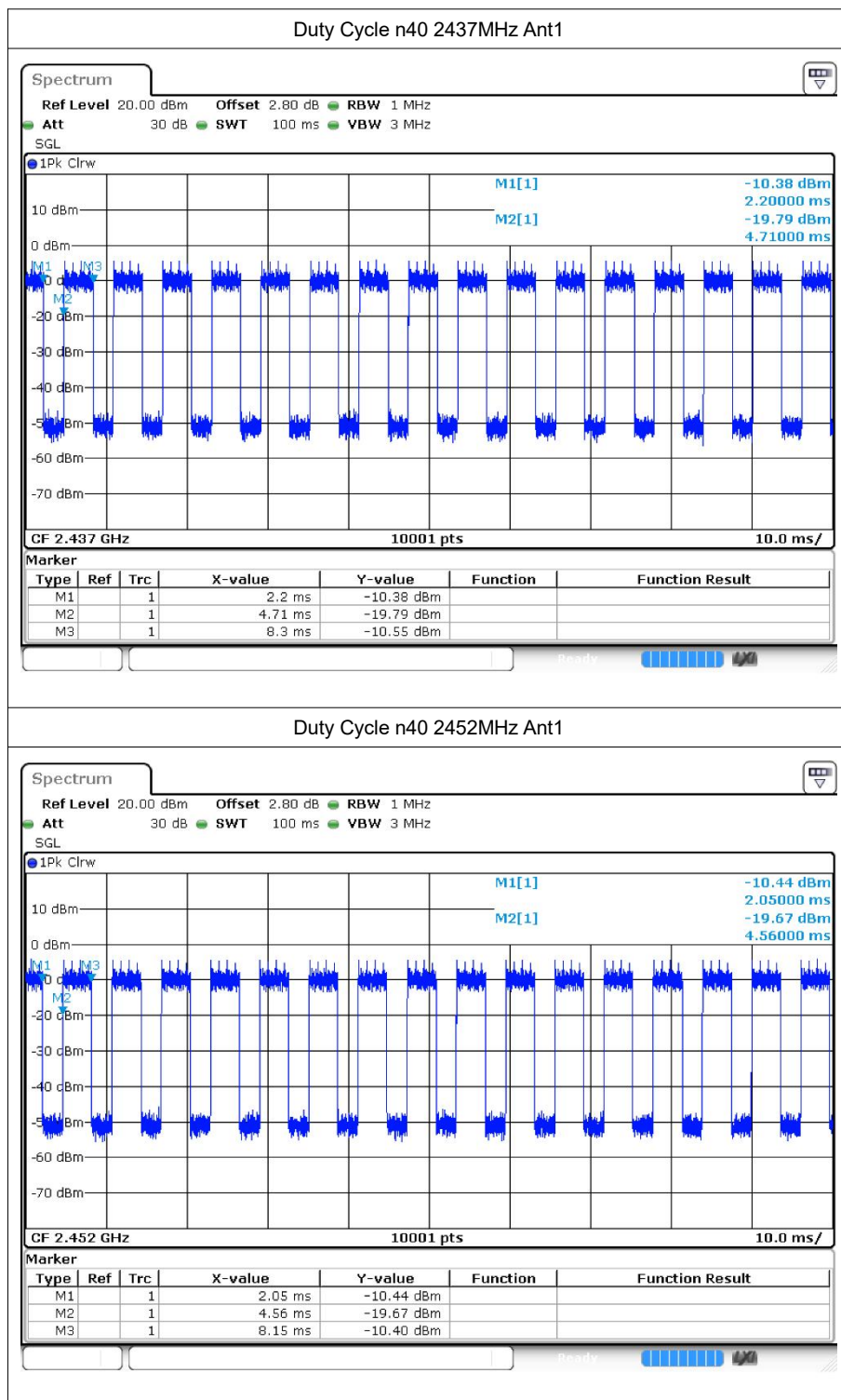






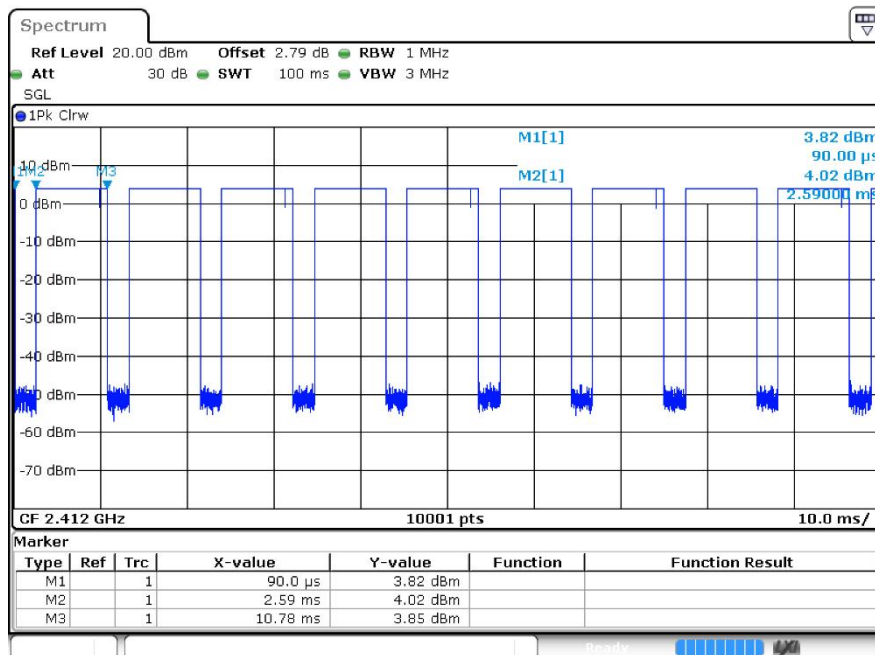




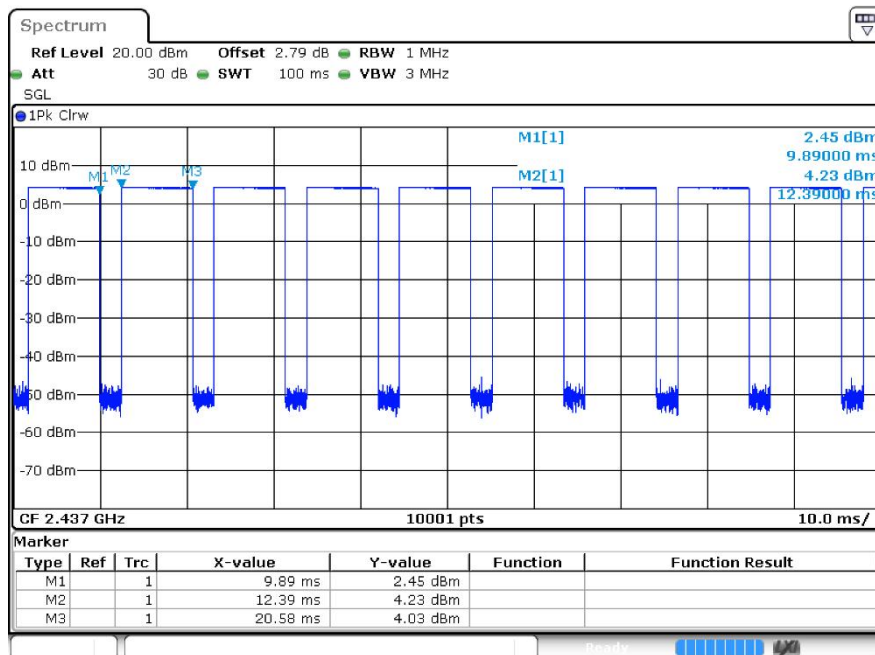


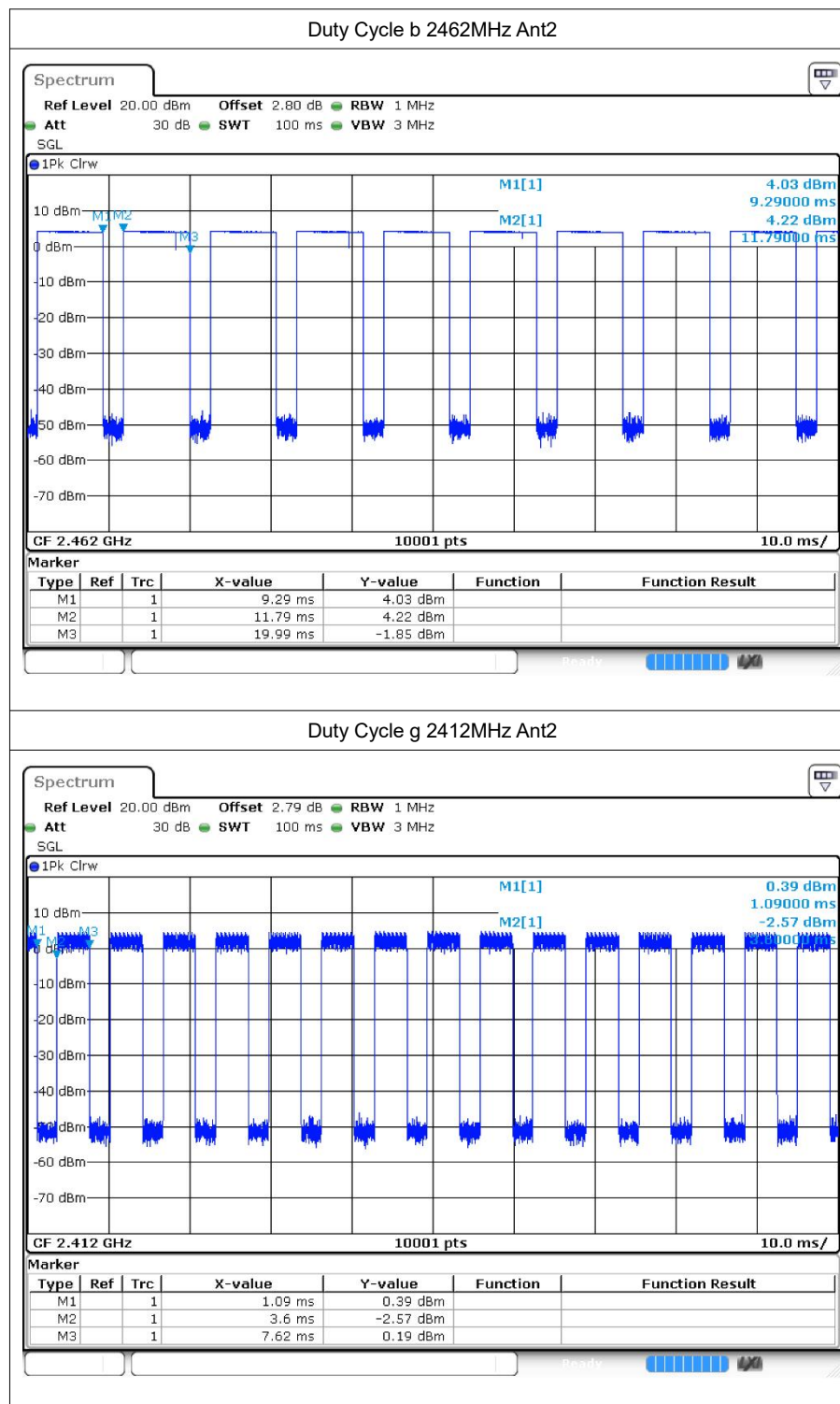
Test Graphs

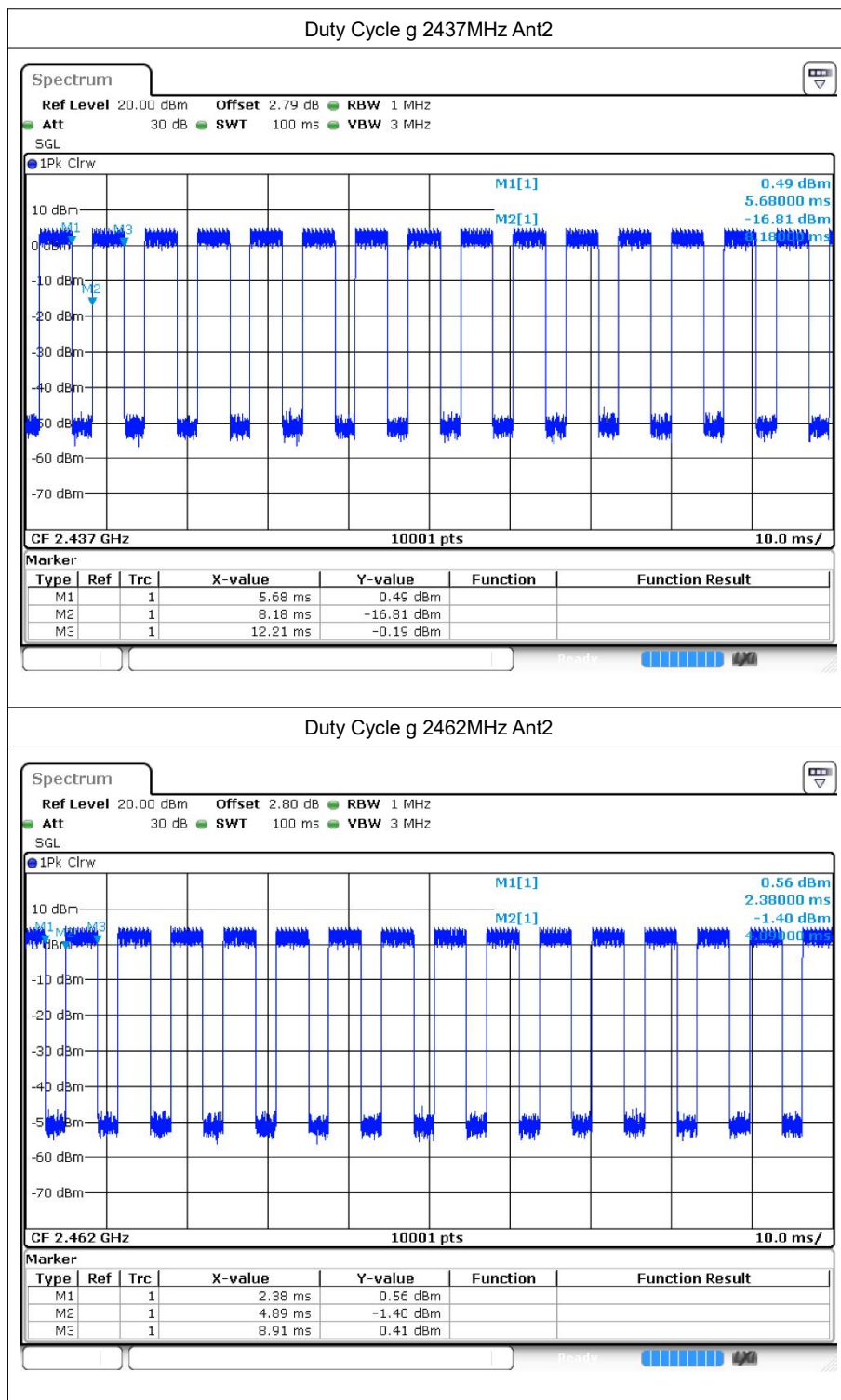
Duty Cycle b 2412MHz Ant2

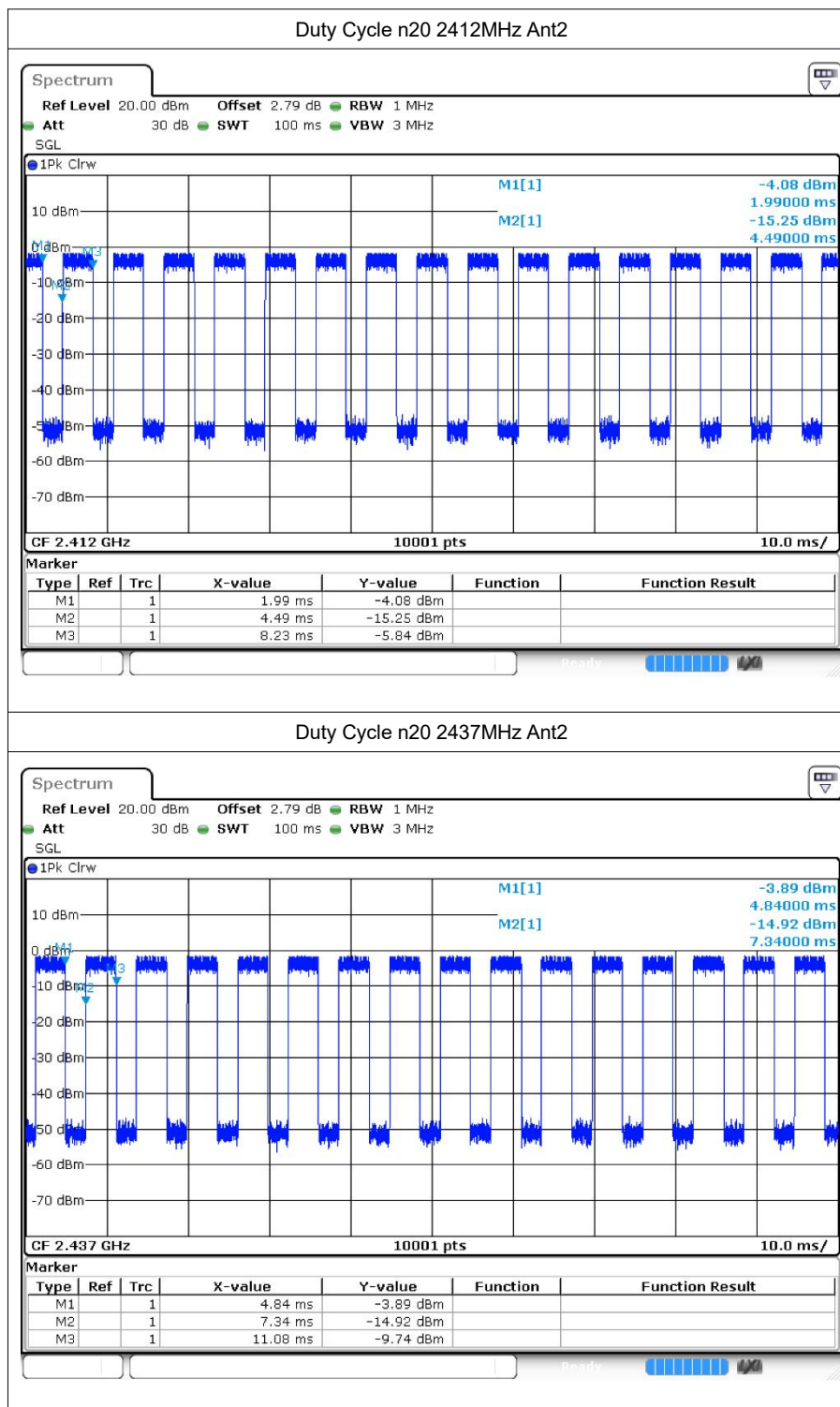


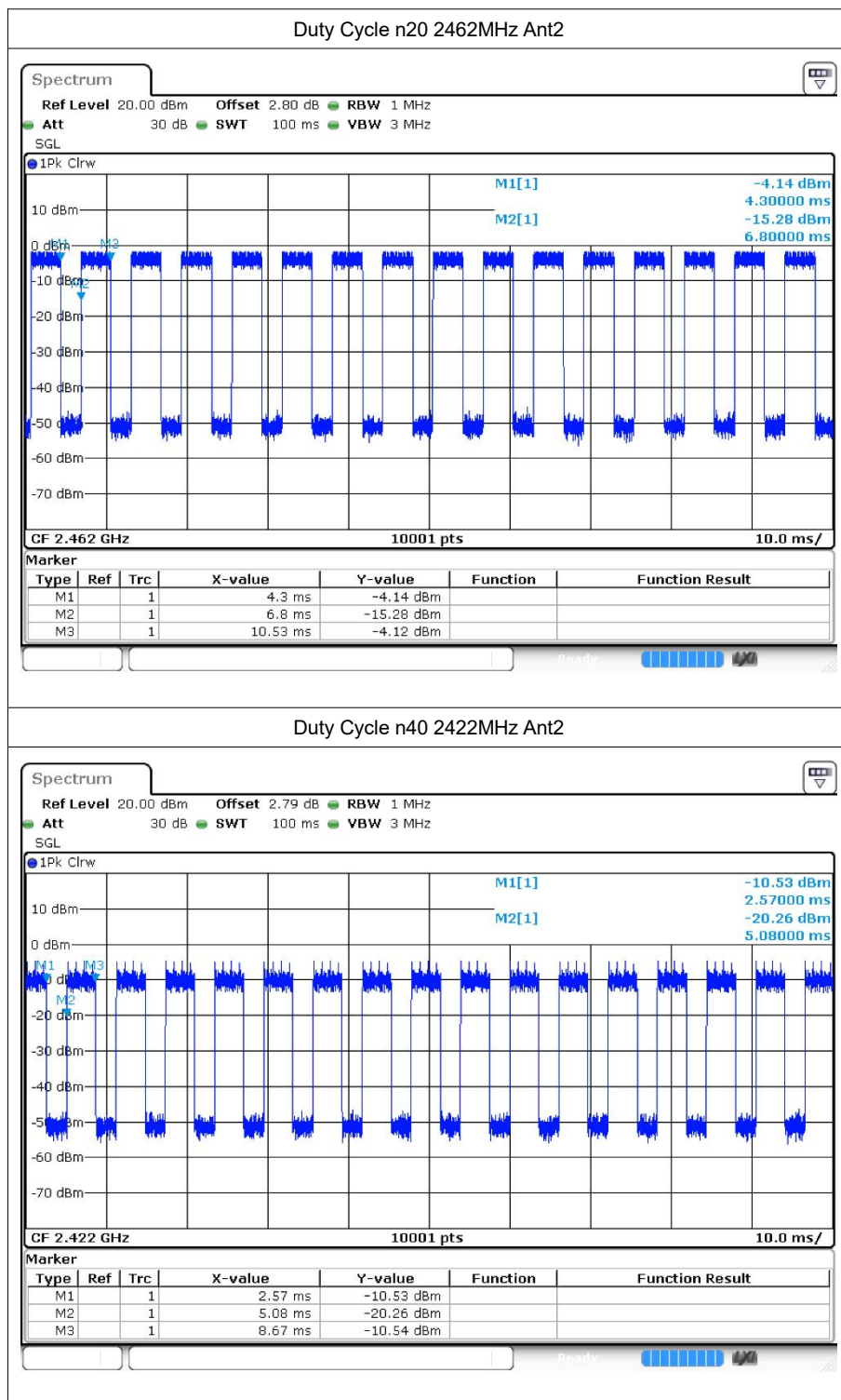
Duty Cycle b 2437MHz Ant2

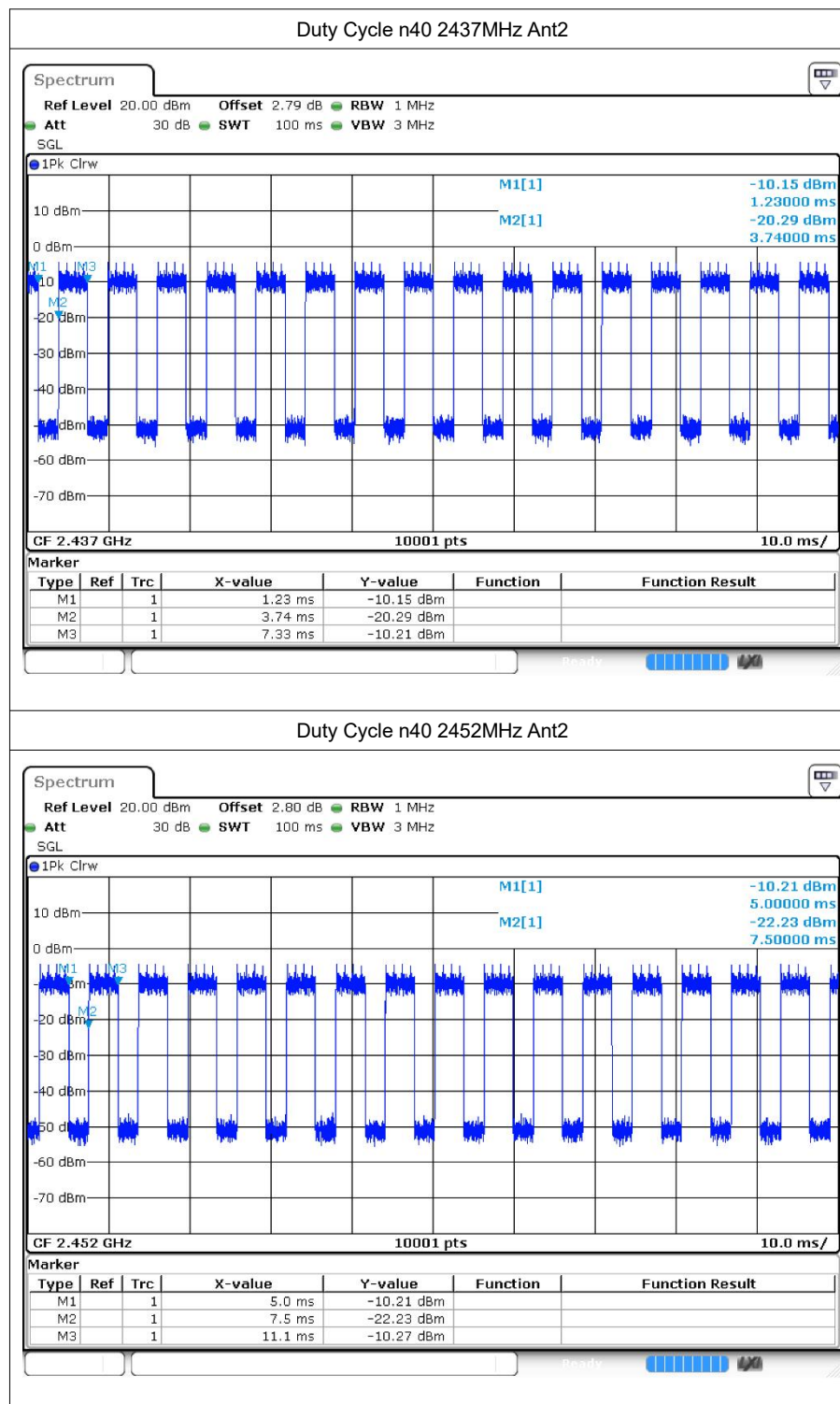




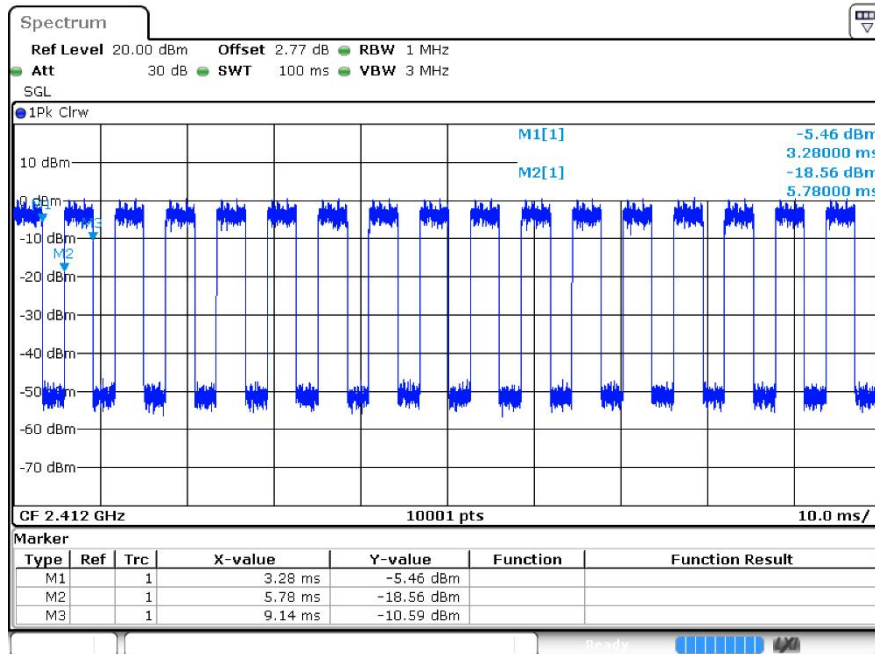




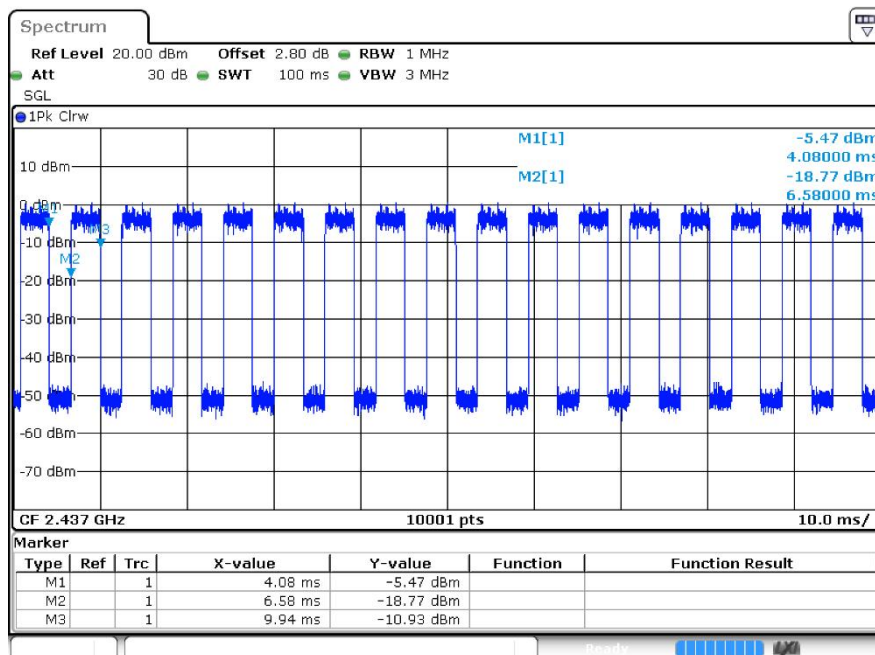


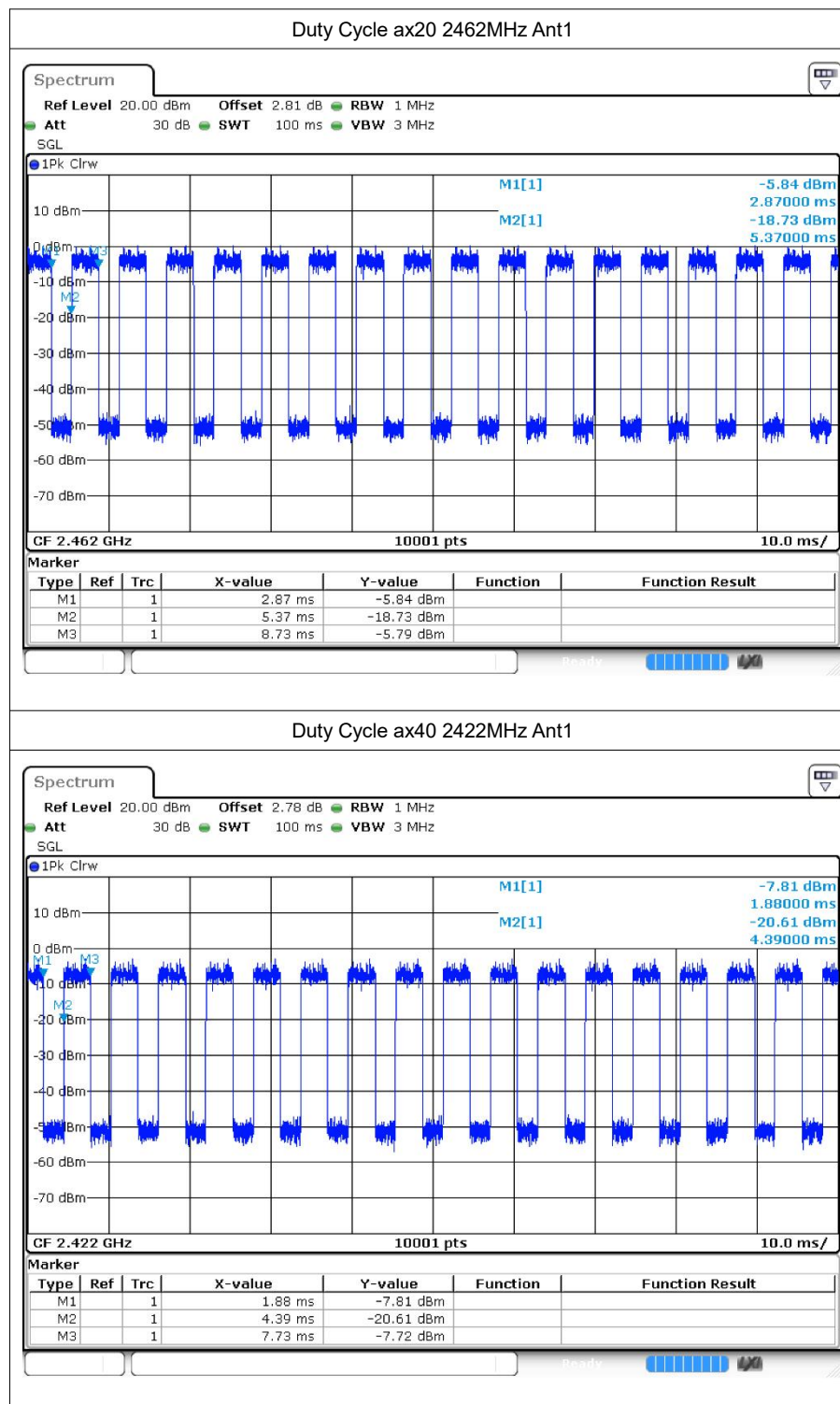


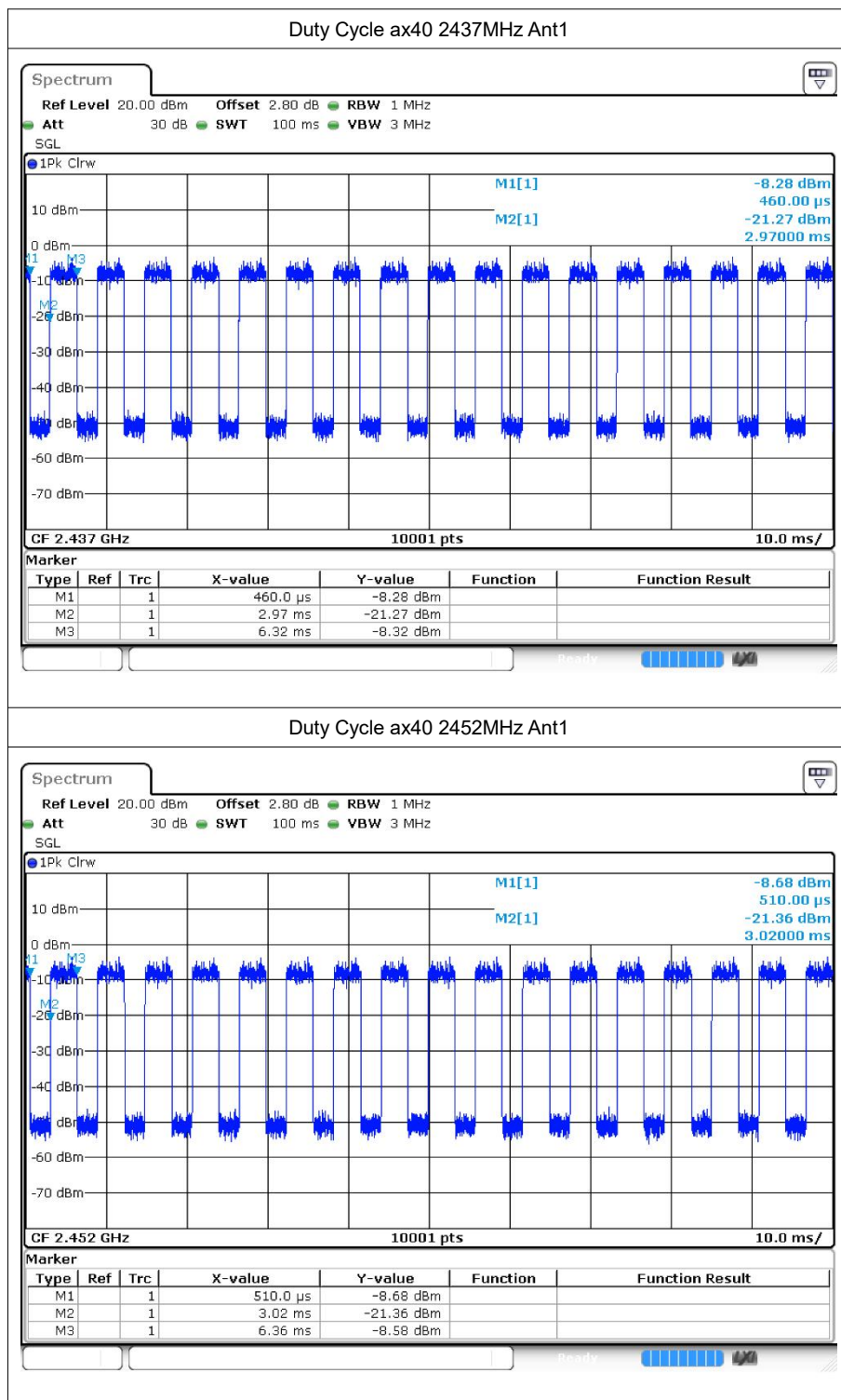
Duty Cycle ax20 2412MHz Ant1

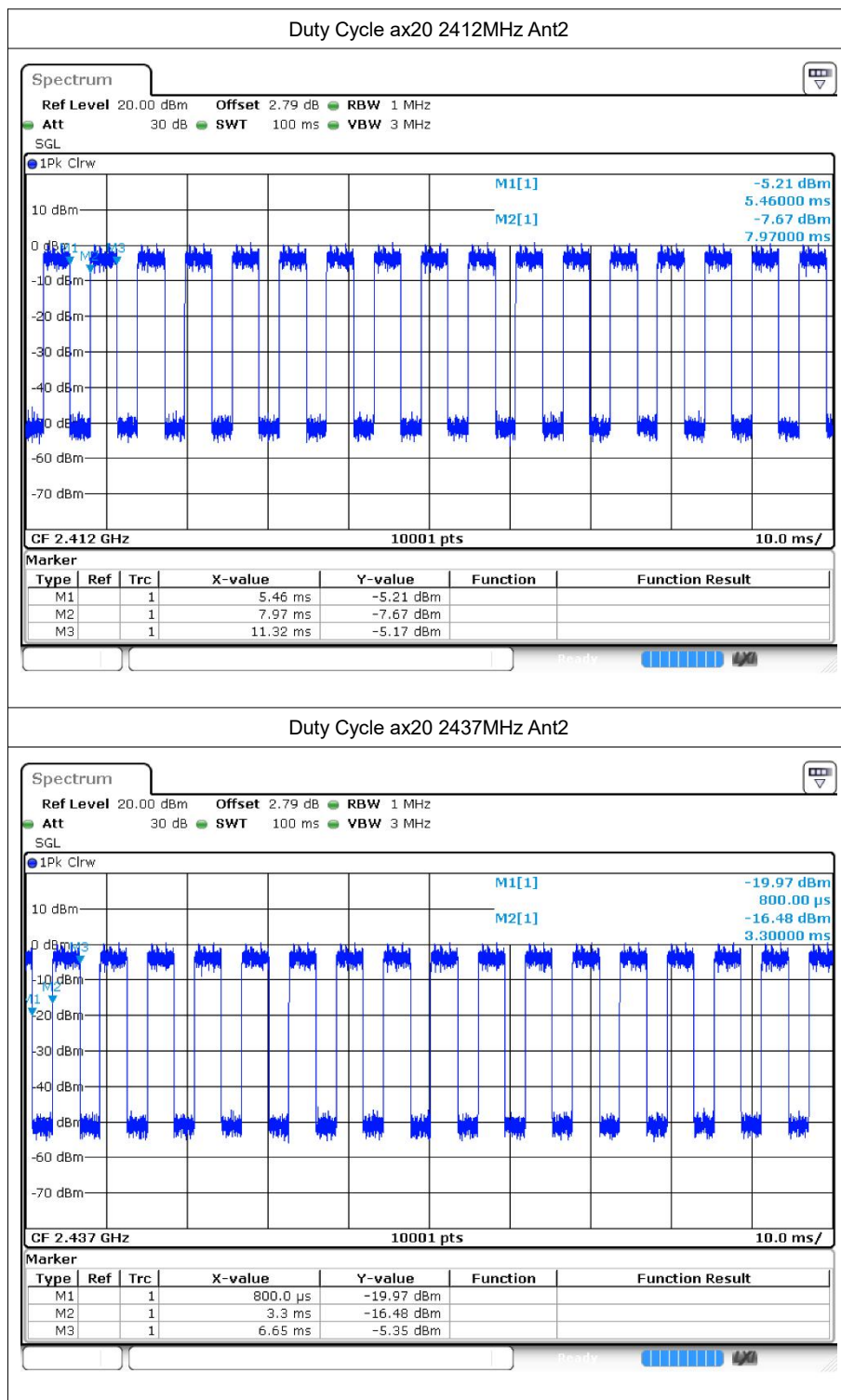


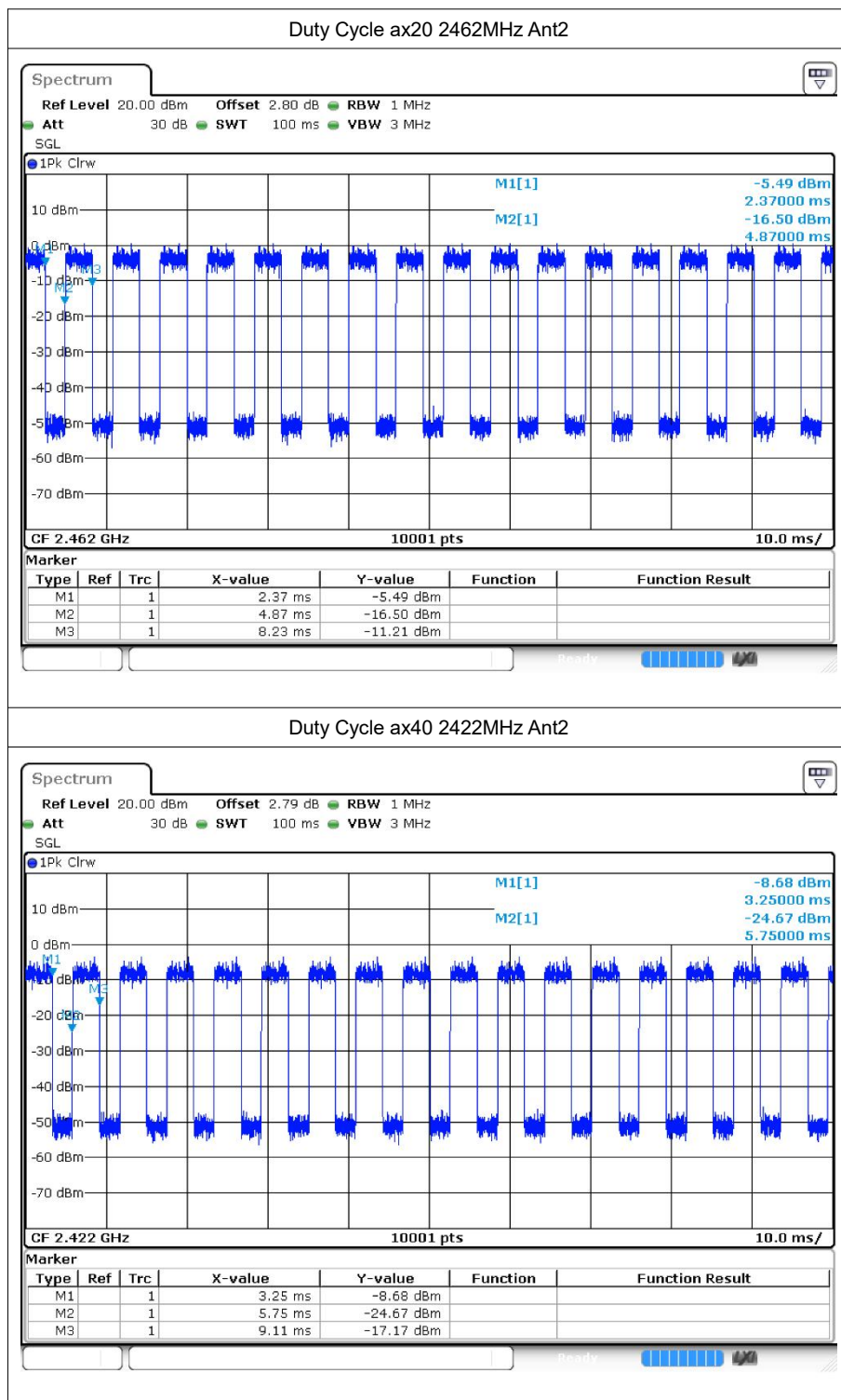
Duty Cycle ax20 2437MHz Ant1

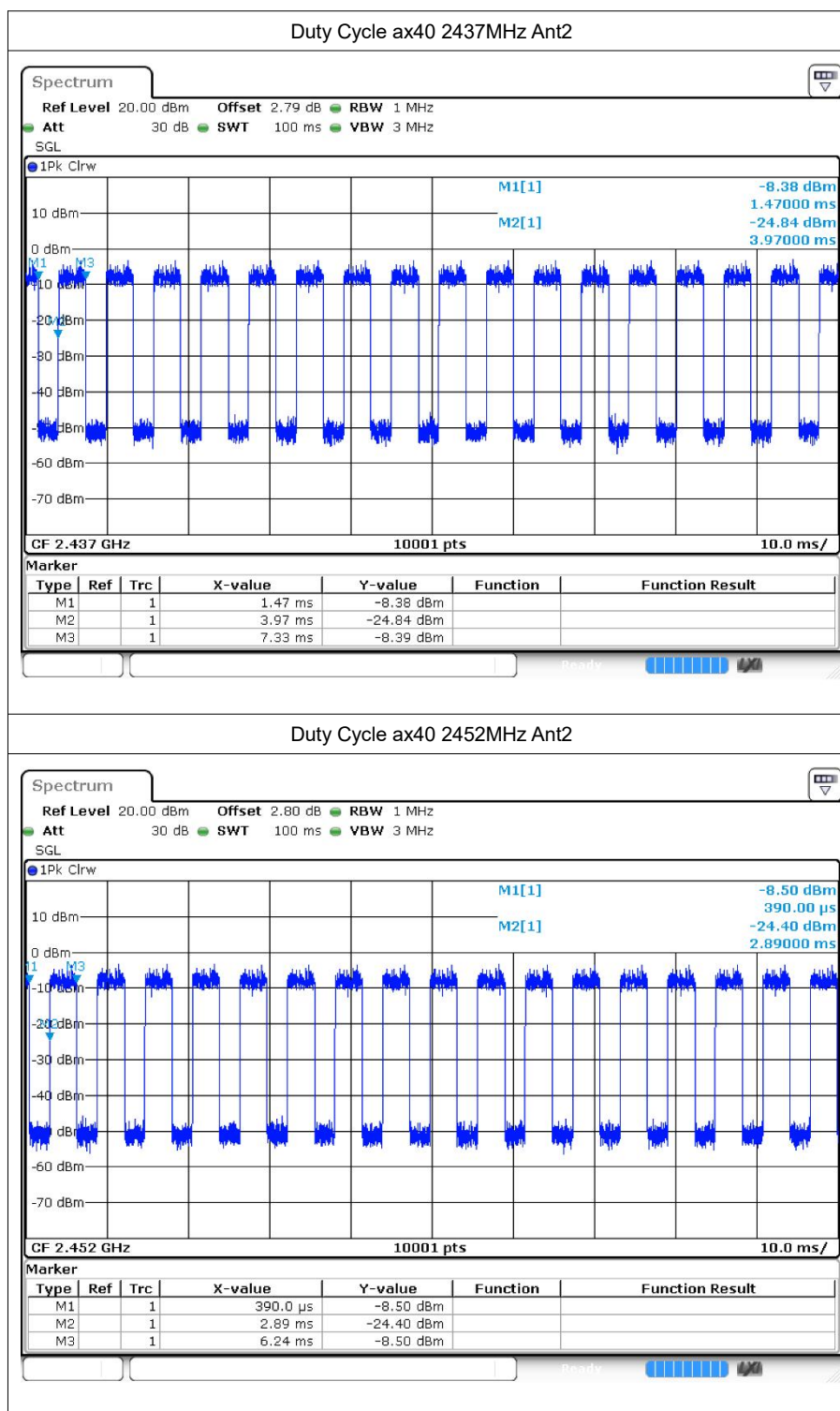












2 Maximum Conducted Output Power

2.1 Test Result

Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
b	2412	Ant1	15.52	30	Pass
b	2437	Ant1	15.23	30	Pass
b	2462	Ant1	15.11	30	Pass
b	2412	Ant2	15.07	30	Pass
b	2437	Ant2	15.27	30	Pass
b	2462	Ant2	14.37	30	Pass
g	2412	Ant1	15.35	30	Pass
g	2437	Ant1	15.11	30	Pass
g	2462	Ant1	15	30	Pass
g	2412	Ant2	14.89	30	Pass
g	2437	Ant2	15.18	30	Pass
g	2462	Ant2	15.09	30	Pass
n20	2412	Ant1	11.5	30	Pass
n20	2437	Ant1	11.31	30	Pass
n20	2462	Ant1	11.16	30	Pass
n20	2412	Ant2	11.05	30	Pass
n20	2437	Ant2	11.3	30	Pass
n20	2462	Ant2	11.36	30	Pass
n20	2412	Sum	14.29	30	Pass
n20	2437	Sum	14.32	30	Pass
n20	2462	Sum	14.27	30	Pass
n40	2422	Ant1	12.1	30	Pass
n40	2437	Ant1	11.84	30	Pass
n40	2452	Ant1	11.58	30	Pass
n40	2422	Ant2	11.52	30	Pass
n40	2437	Ant2	11.65	30	Pass
n40	2452	Ant2	11.61	30	Pass
n40	2422	Sum	14.83	30	Pass
n40	2437	Sum	14.76	30	Pass
n40	2452	Sum	14.61	30	Pass
ax20	2412	Ant1	11.95	30	Pass
ax20	2437	Ant1	11.83	30	Pass



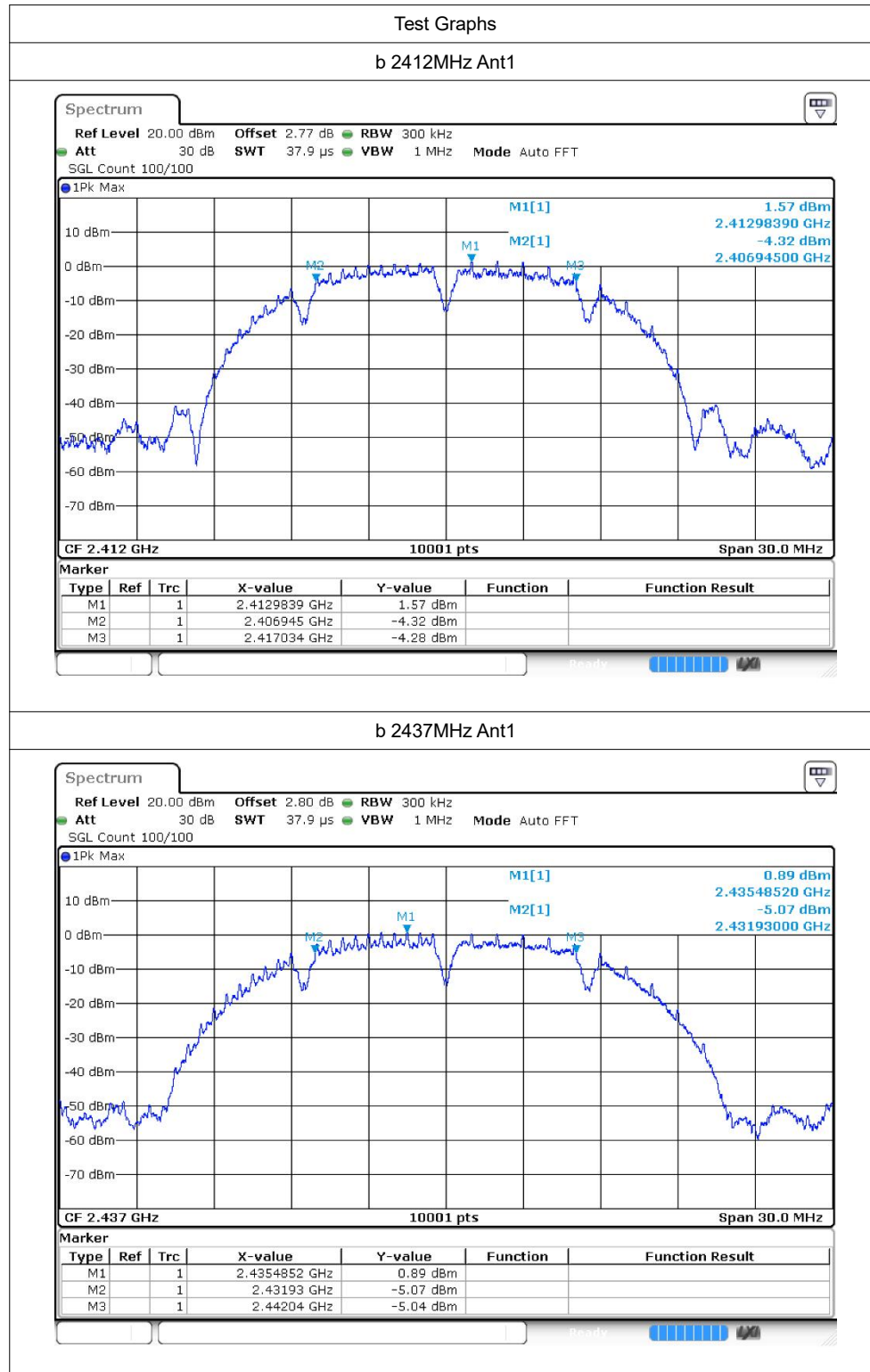
ax20	2462	Ant1	11.47	30	Pass
ax20	2412	Ant2	11.78	30	Pass
ax20	2437	Ant2	11.85	30	Pass
ax20	2462	Ant2	11.62	30	Pass
ax20	2412	Sum	14.7	30	Pass
ax20	2437	Sum	14.64	30	Pass
ax20	2462	Sum	14.68	30	Pass
ax40	2422	Ant1	11.51	30	Pass
ax40	2437	Ant1	11.31	30	Pass
ax40	2452	Ant1	11.15	30	Pass
ax40	2422	Ant2	10.95	30	Pass
ax40	2437	Ant2	10.99	30	Pass
ax40	2452	Ant2	10.86	30	Pass
ax40	2422	Sum	14.25	30	Pass
ax40	2437	Sum	14.16	30	Pass
ax40	2452	Sum	14.02	30	Pass

3 -6dB Bandwidth

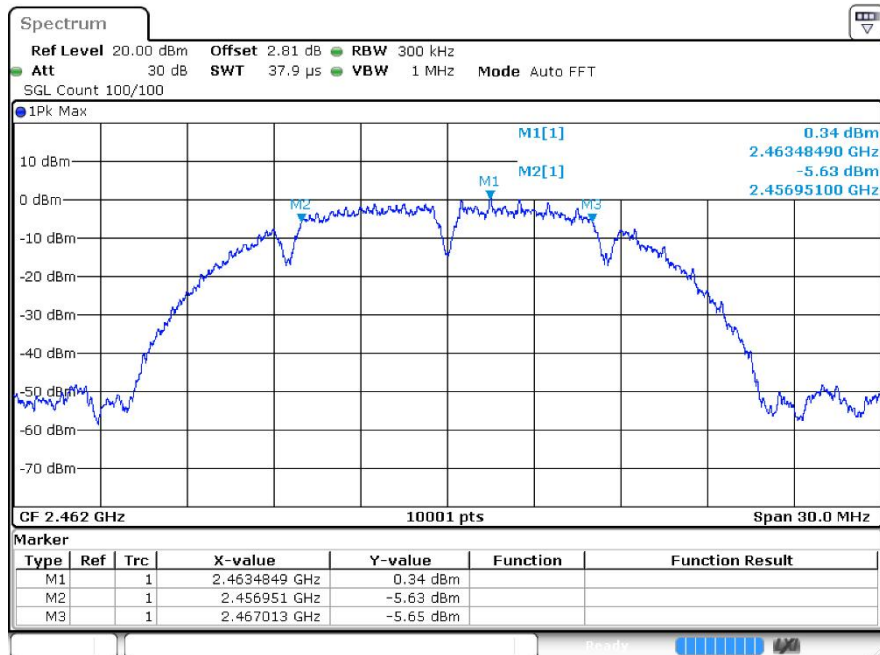
3.1 Test Result

Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
b	2412	Ant1	10.089	0.5	Pass
b	2437	Ant1	10.11	0.5	Pass
b	2462	Ant1	10.062	0.5	Pass
g	2412	Ant1	16.374	0.5	Pass
g	2437	Ant1	16.365	0.5	Pass
g	2462	Ant1	16.392	0.5	Pass
n20	2412	Ant1	17.58	0.5	Pass
n20	2437	Ant1	17.655	0.5	Pass
n20	2462	Ant1	17.634	0.5	Pass
n40	2422	Ant1	36.354	0.5	Pass
n40	2437	Ant1	36.384	0.5	Pass
n40	2452	Ant1	36.048	0.5	Pass
ax20	2412	Ant1	18.855	0.5	Pass
ax20	2437	Ant1	18.162	0.5	Pass
ax20	2462	Ant1	19.038	0.5	Pass
ax40	2422	Ant1	36.792	0.5	Pass
ax40	2437	Ant1	38.088	0.5	Pass
ax40	2452	Ant1	38.106	0.5	Pass
b	2412	Ant2	10.122	0.5	Pass
b	2437	Ant2	11.094	0.5	Pass
b	2462	Ant2	9.945	0.5	Pass
g	2412	Ant2	16.332	0.5	Pass
g	2437	Ant2	16.476	0.5	Pass
g	2462	Ant2	16.482	0.5	Pass
n20	2412	Ant2	17.646	0.5	Pass
n20	2437	Ant2	17.64	0.5	Pass
n20	2462	Ant2	17.145	0.5	Pass
n40	2422	Ant2	36.354	0.5	Pass
n40	2437	Ant2	36.372	0.5	Pass
n40	2452	Ant2	36.426	0.5	Pass
ax20	2412	Ant2	19.038	0.5	Pass
ax20	2437	Ant2	18.126	0.5	Pass
ax20	2462	Ant2	18.99	0.5	Pass
ax40	2422	Ant2	37.812	0.5	Pass
ax40	2437	Ant2	37.578	0.5	Pass
ax40	2452	Ant2	38.088	0.5	Pass

3.2 Test Graphs



b 2462MHz Ant1



g 2412MHz Ant1

