



Appendix C

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: Air aromatherapy purifier

Trade Mark: N/A

Test Model: WG-03

Environmental Conditions

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



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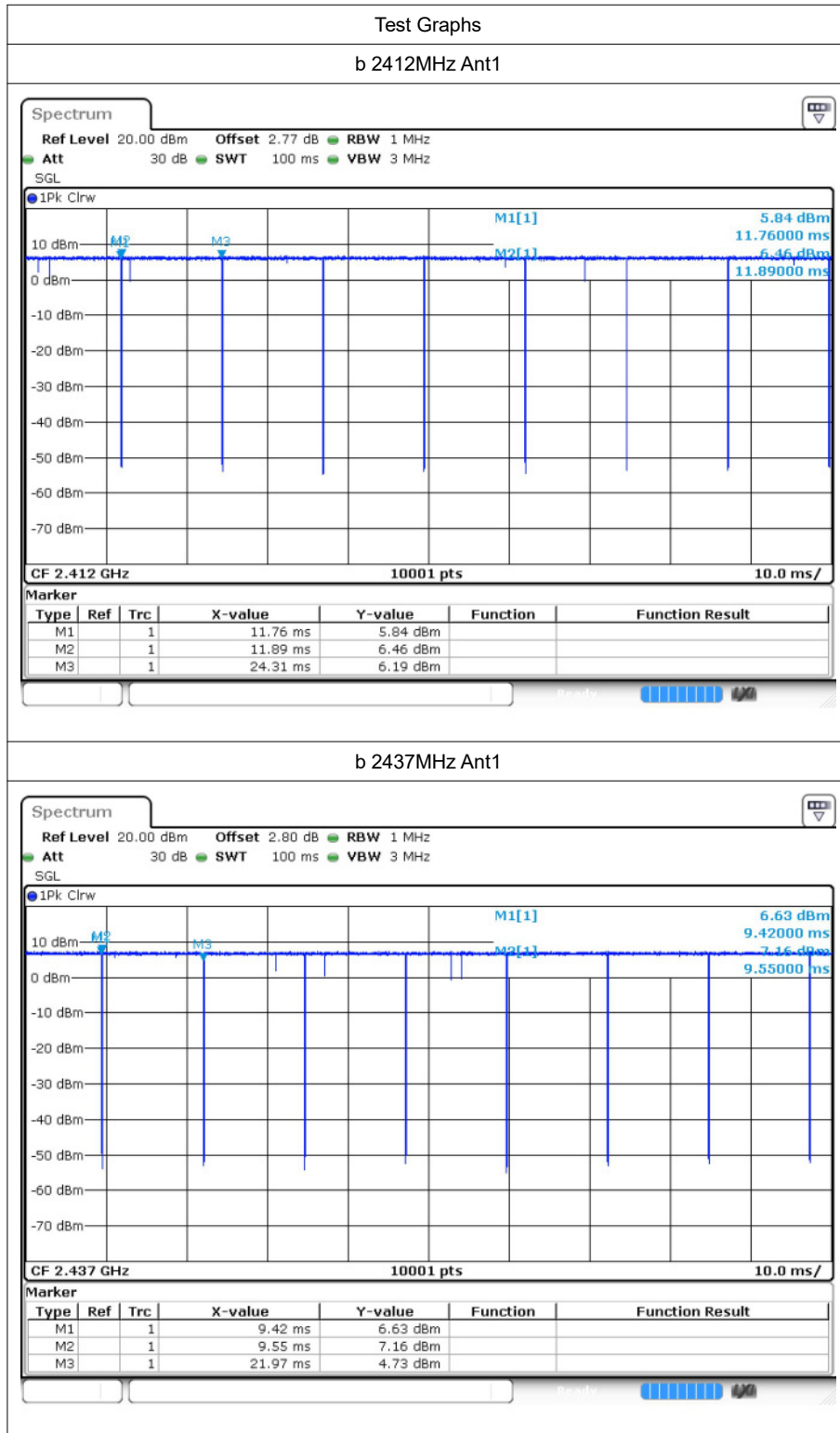


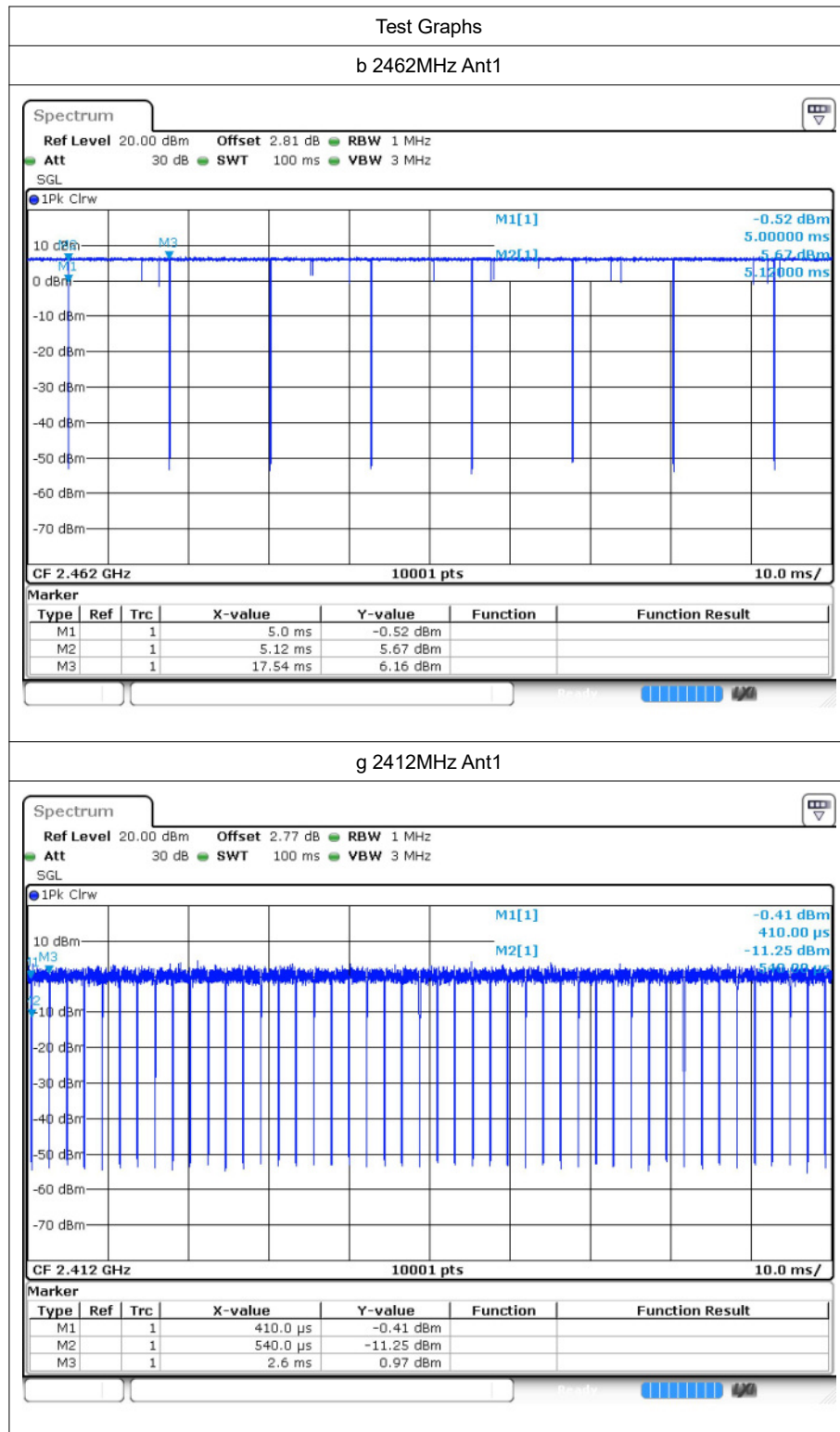
1 Duty Cycle

1.1 Test Result

Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor	1/T (kHz)
b	2412	Ant1	99.04	0.04	0.08
b	2437	Ant1	99.06	0.04	0.08
b	2462	Ant1	99.05	0.04	0.08
g	2412	Ant1	94.53	0.24	0.49
g	2437	Ant1	94.51	0.25	0.49
g	2462	Ant1	94.5	0.25	0.48
n20	2412	Ant1	94.15	0.26	0.52
n20	2437	Ant1	94.12	0.26	0.52
n20	2462	Ant1	94.12	0.26	0.52

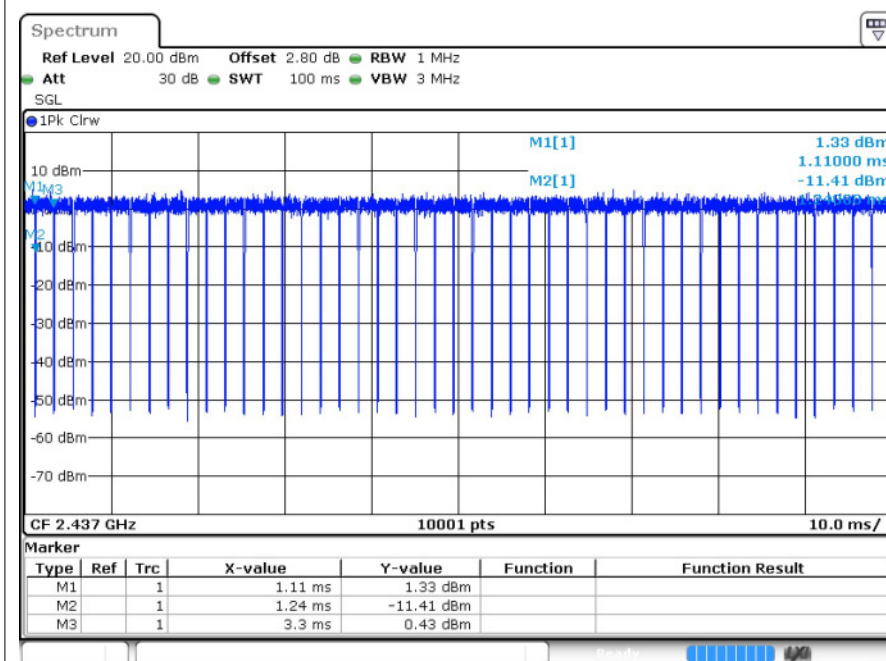
1.2 Test Graphs



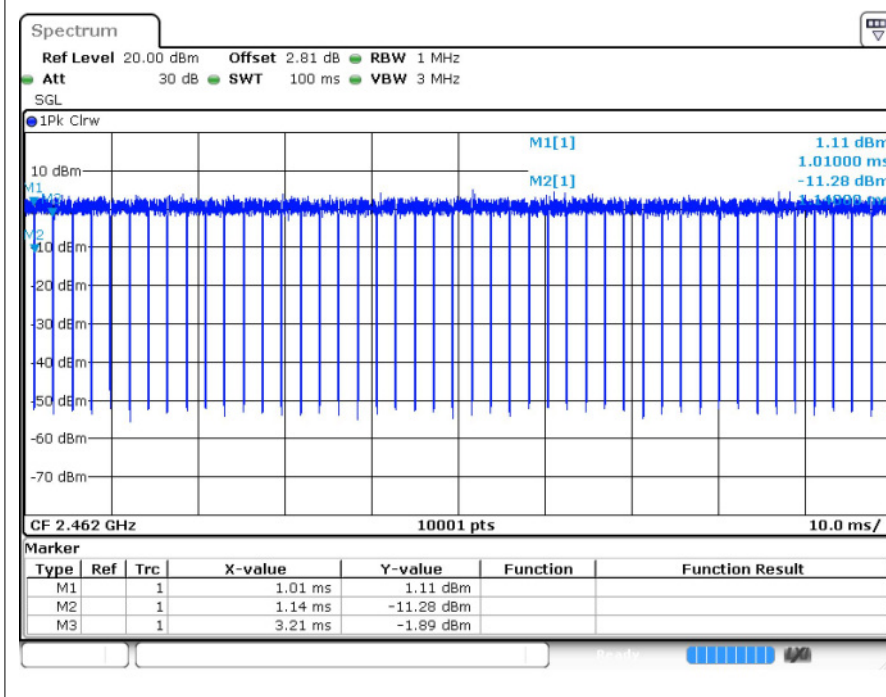


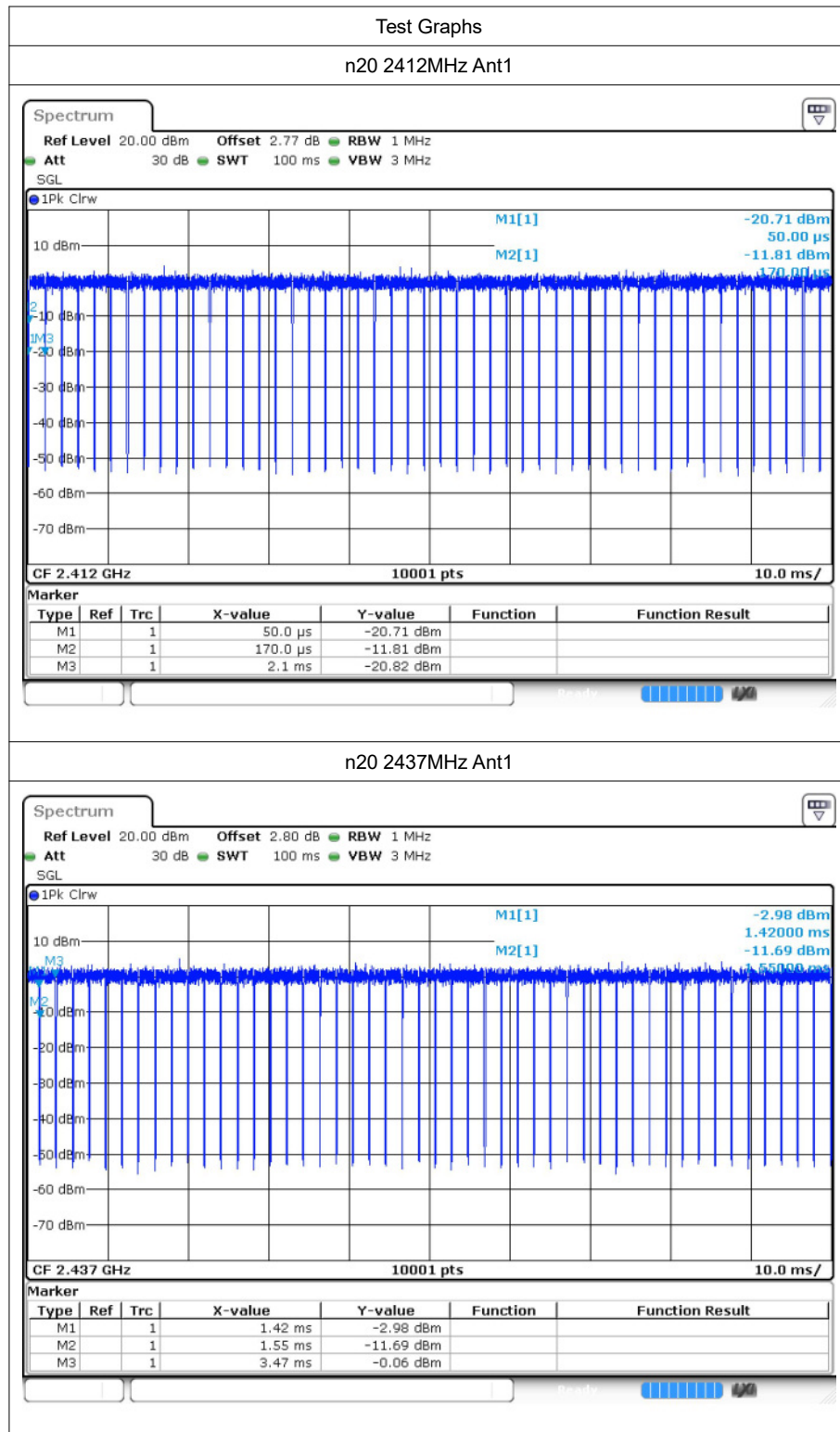
Test Graphs

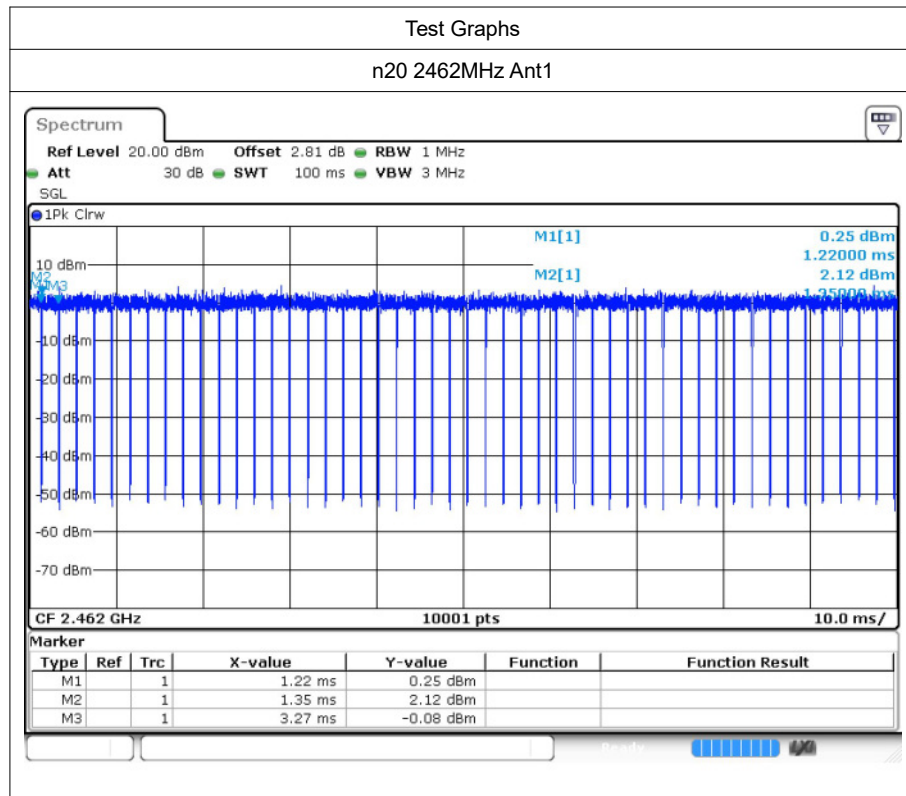
g 2437MHz Ant1



g 2462MHz Ant1







2 Maximum Conducted Output Power

2.1 Test Result

Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
b	2412	Ant1	15.31	30	Pass
b	2437	Ant1	15.81	30	Pass
b	2462	Ant1	15.29	30	Pass
g	2412	Ant1	13.85	30	Pass
g	2437	Ant1	14.31	30	Pass
g	2462	Ant1	14.12	30	Pass
n20	2412	Ant1	13.46	30	Pass
n20	2437	Ant1	13.85	30	Pass
n20	2462	Ant1	13.84	30	Pass

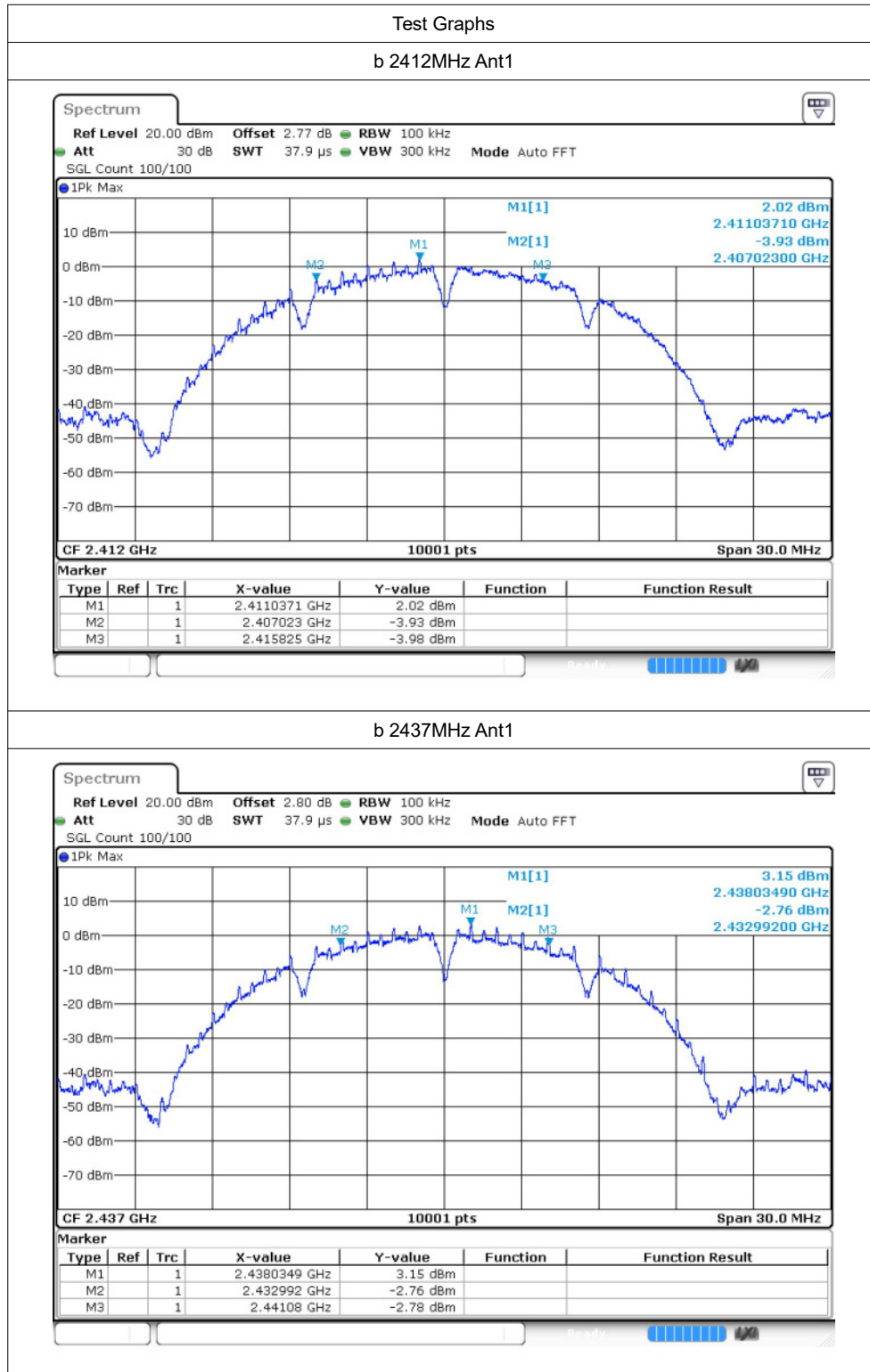


3 -6dB Bandwidth

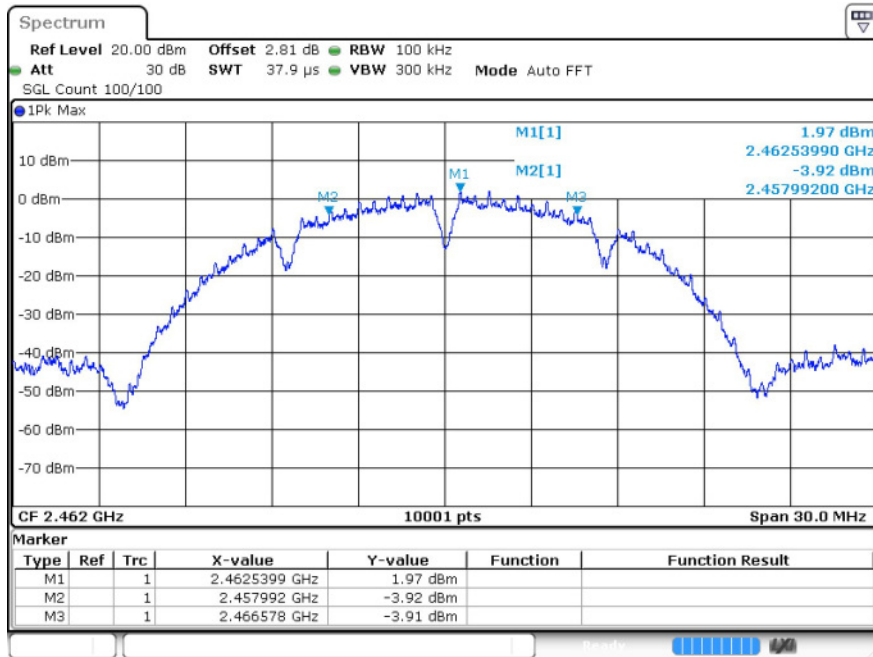
3.1 Test Result

Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
b	2412	Ant1	8.802	0.5	Pass
b	2437	Ant1	8.088	0.5	Pass
b	2462	Ant1	8.586	0.5	Pass
g	2412	Ant1	16.347	0.5	Pass
g	2437	Ant1	16.416	0.5	Pass
g	2462	Ant1	16.311	0.5	Pass
n20	2412	Ant1	17.751	0.5	Pass
n20	2437	Ant1	17.649	0.5	Pass
n20	2462	Ant1	17.691	0.5	Pass

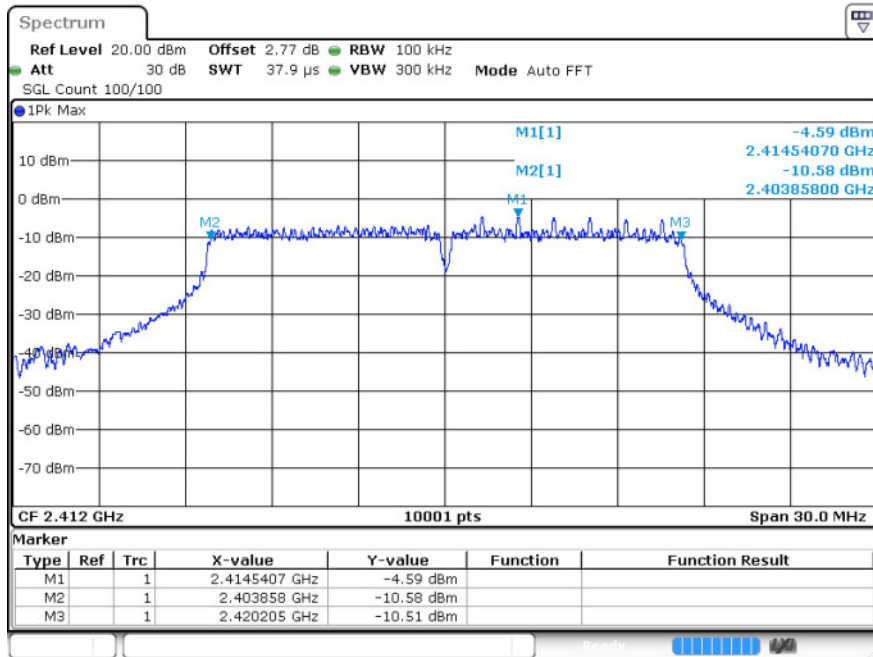
3.2 Test Graphs



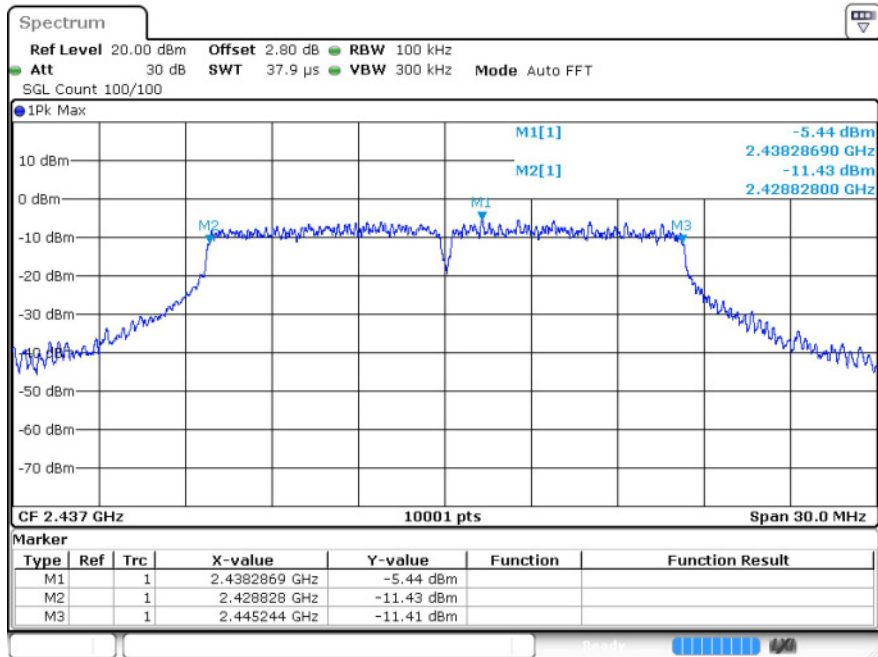
b 2462MHz Ant1



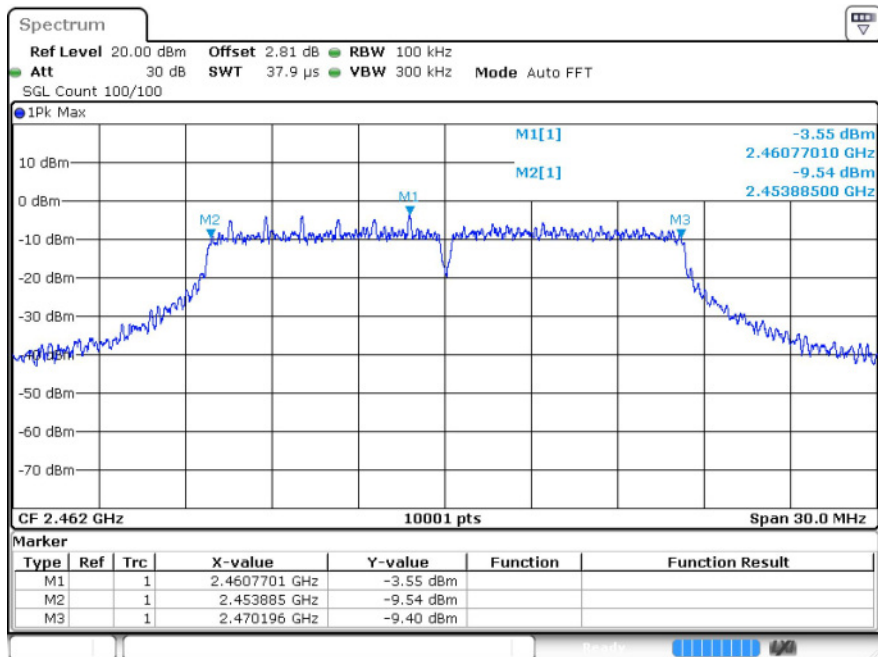
g 2412MHz Ant1

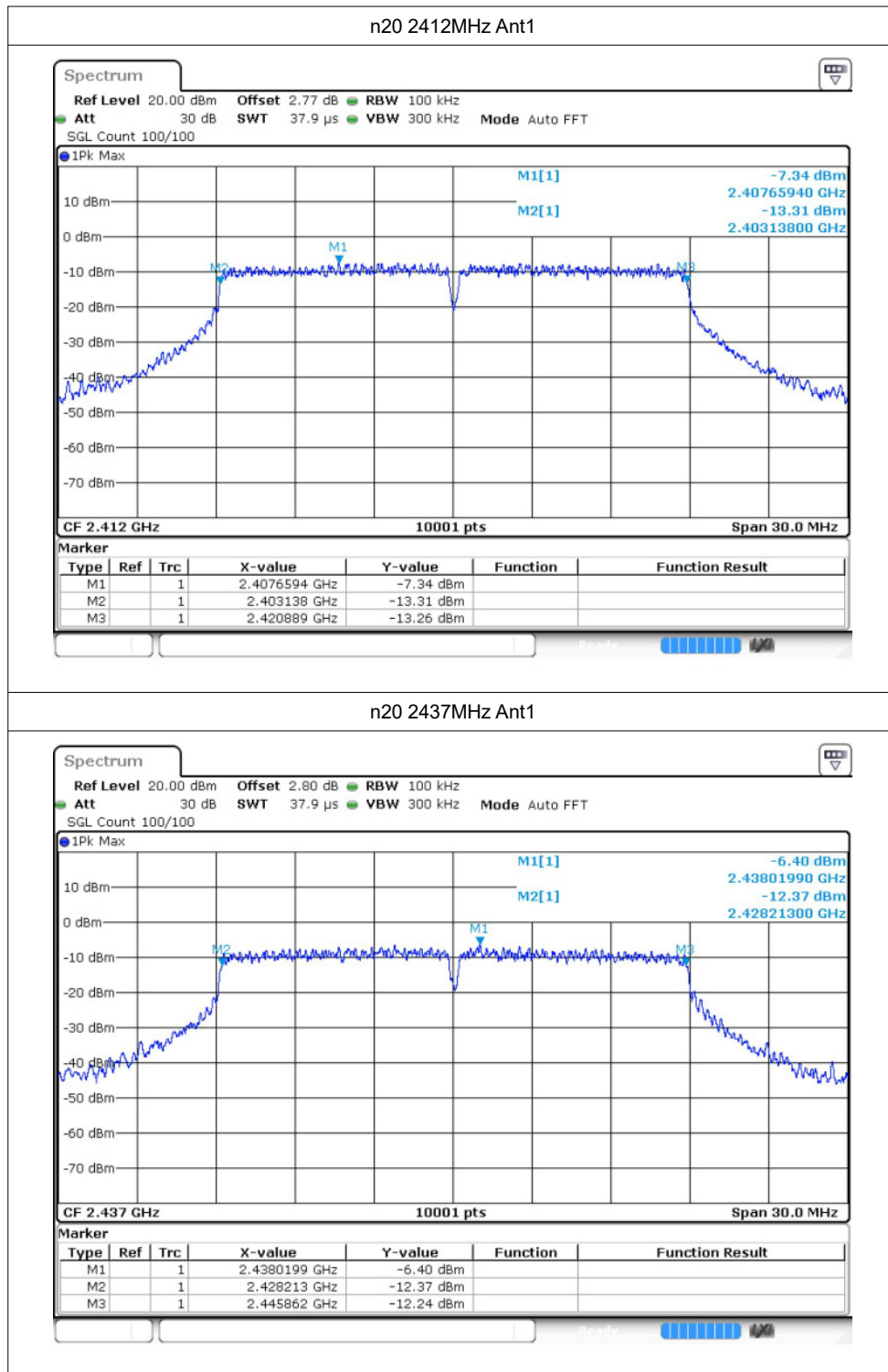


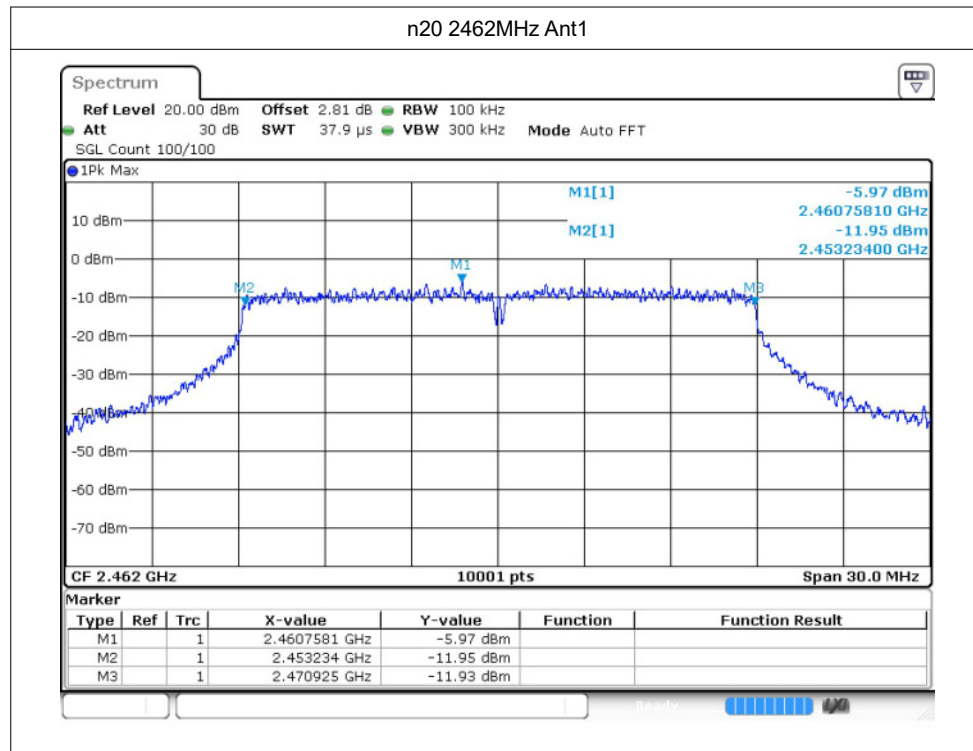
g 2437MHz Ant1



g 2462MHz Ant1





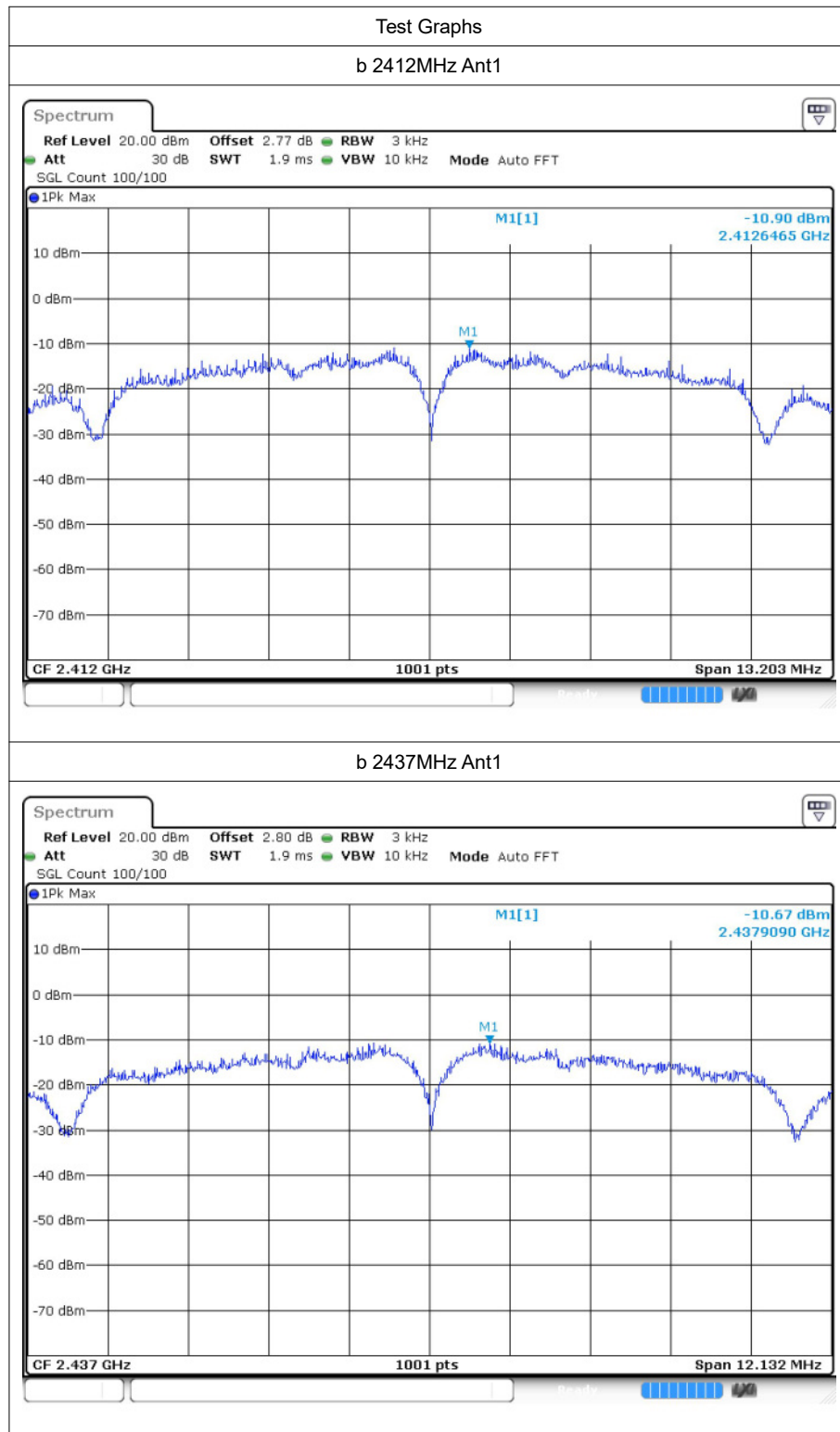


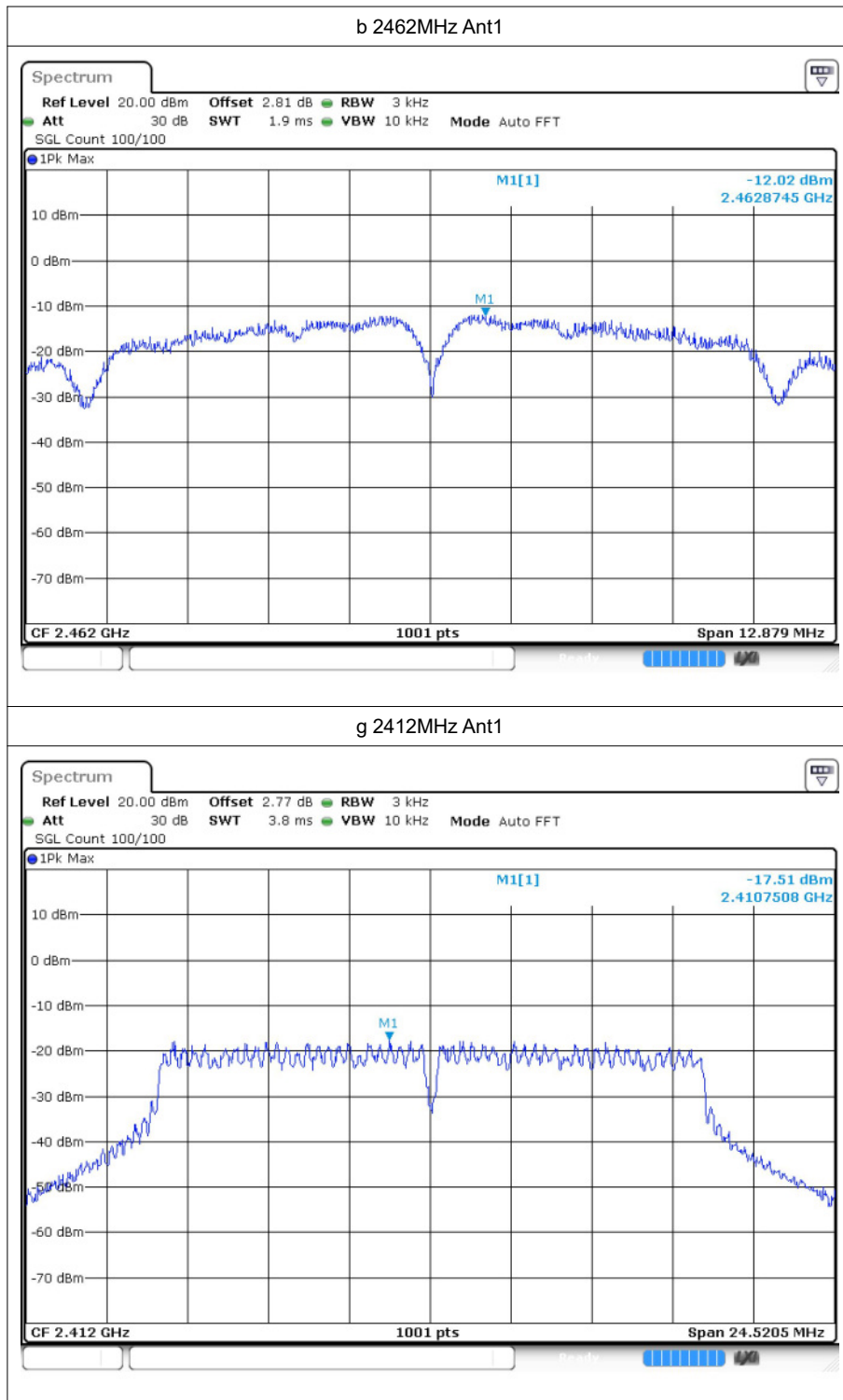
4 Maximum Power Spectral Density Level

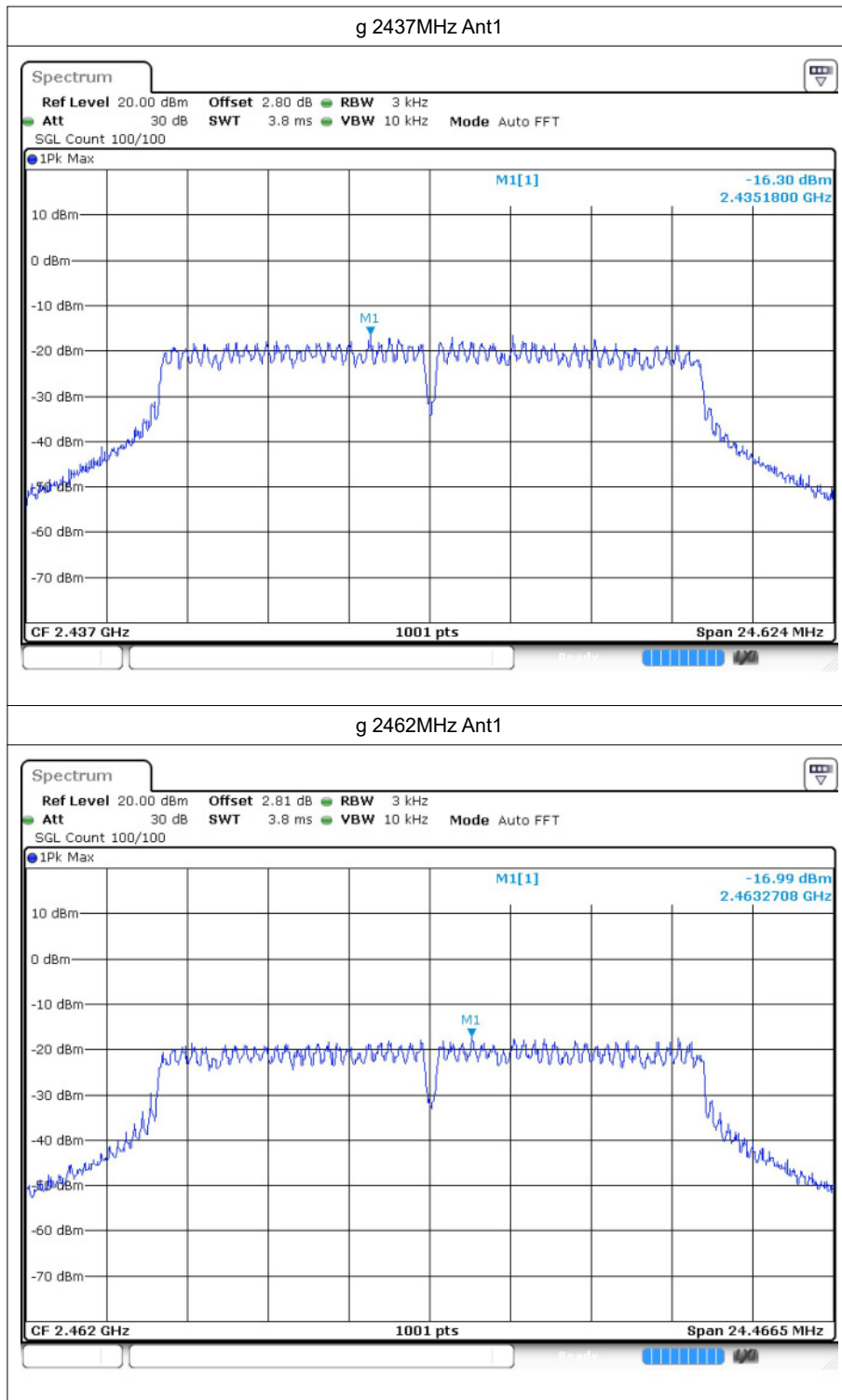
4.1 Test Result

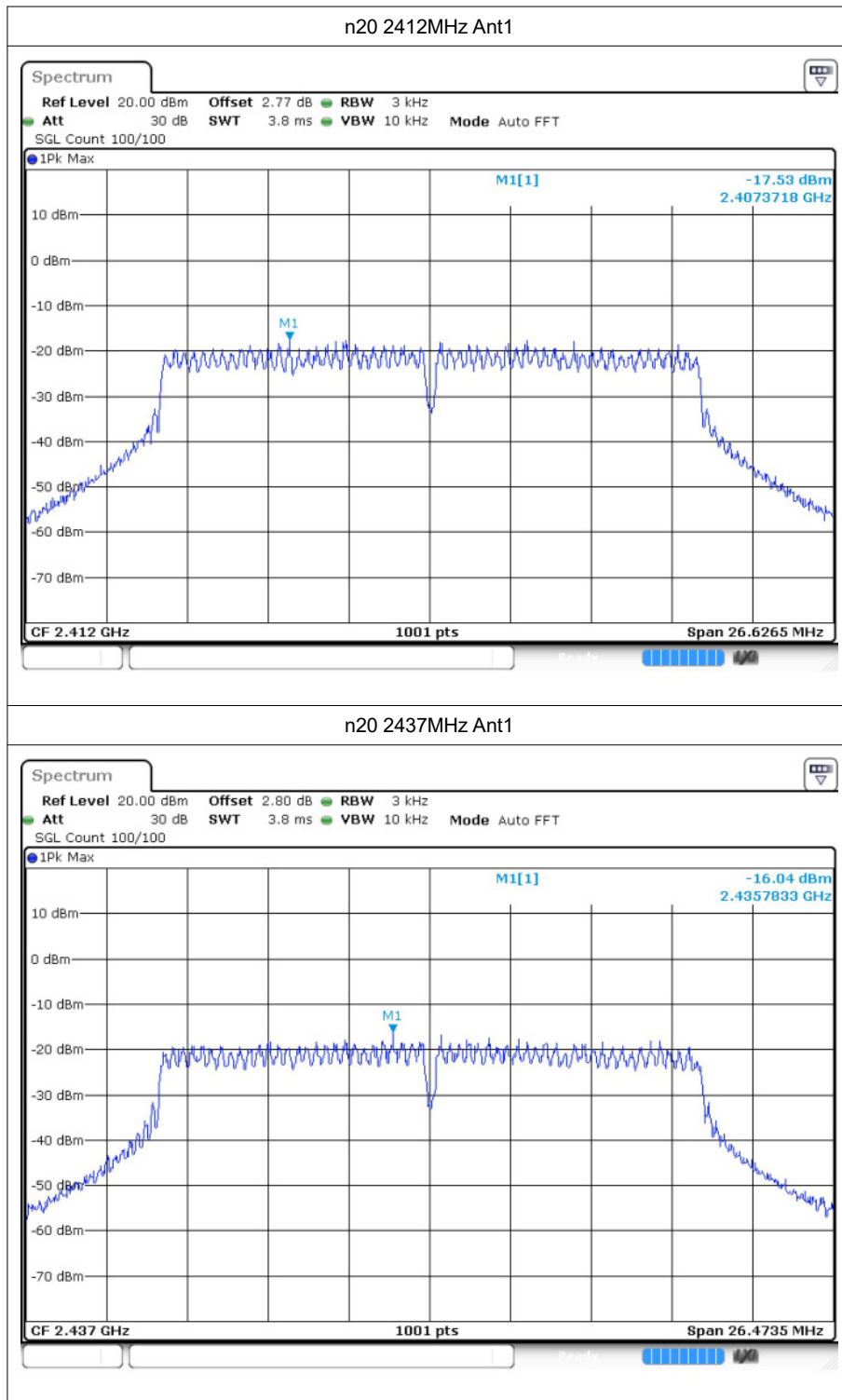
Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3-100kHz)	Limit (dBm/3kHz)	Verdict
b	2412	Ant1	-10.9	≤ 8	Pass
b	2437	Ant1	-10.67	≤ 8	Pass
b	2462	Ant1	-12.02	≤ 8	Pass
g	2412	Ant1	-17.51	≤ 8	Pass
g	2437	Ant1	-16.3	≤ 8	Pass
g	2462	Ant1	-16.99	≤ 8	Pass
n20	2412	Ant1	-17.53	≤ 8	Pass
n20	2437	Ant1	-16.04	≤ 8	Pass
n20	2462	Ant1	-17.15	≤ 8	Pass

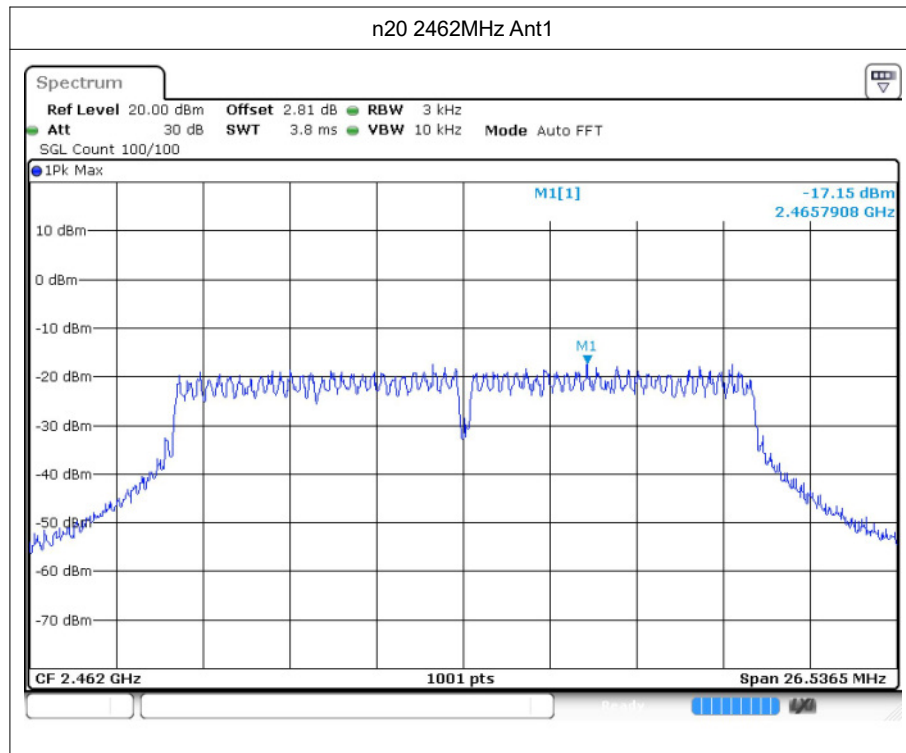
4.2 Test Graphs











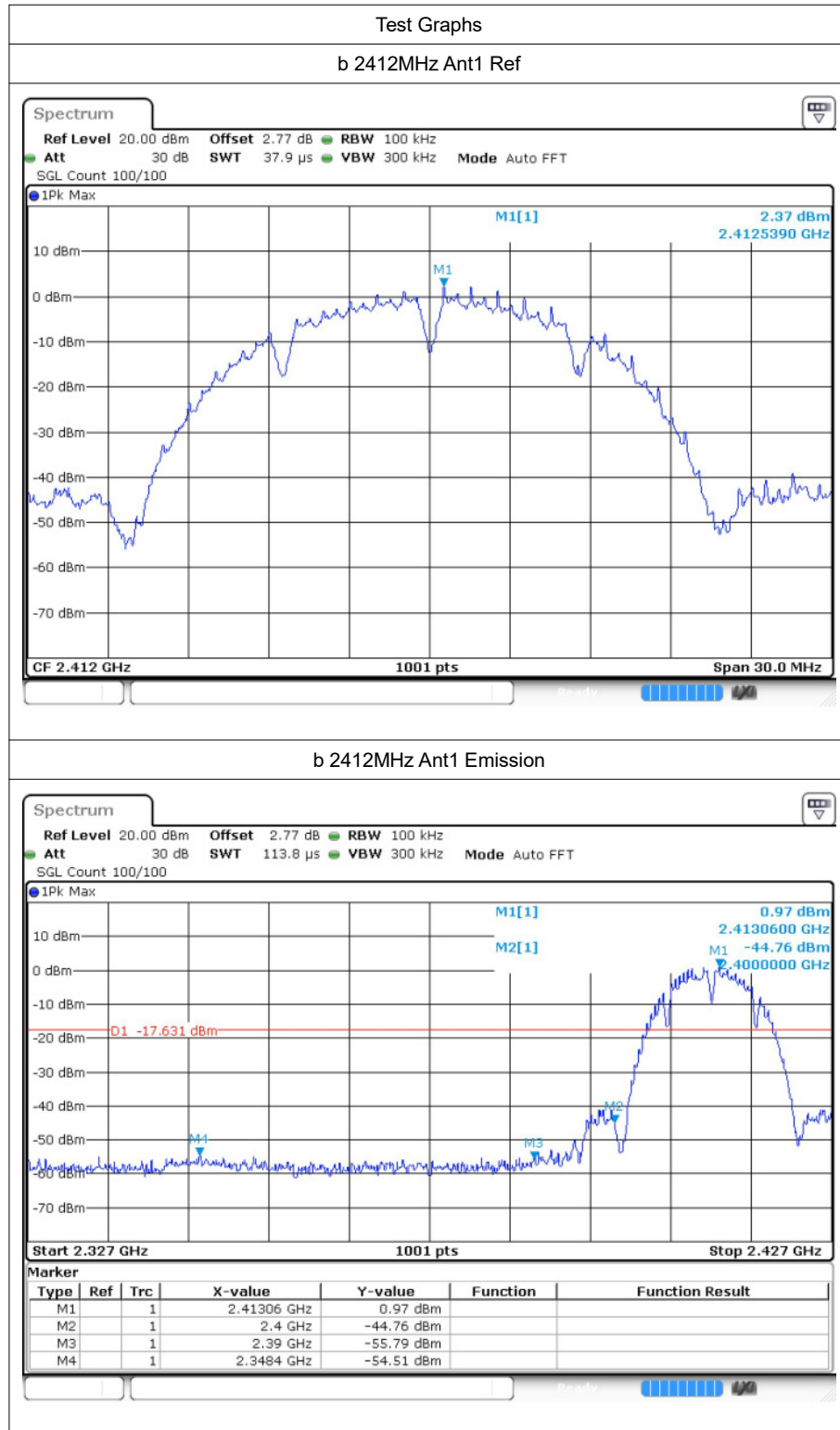


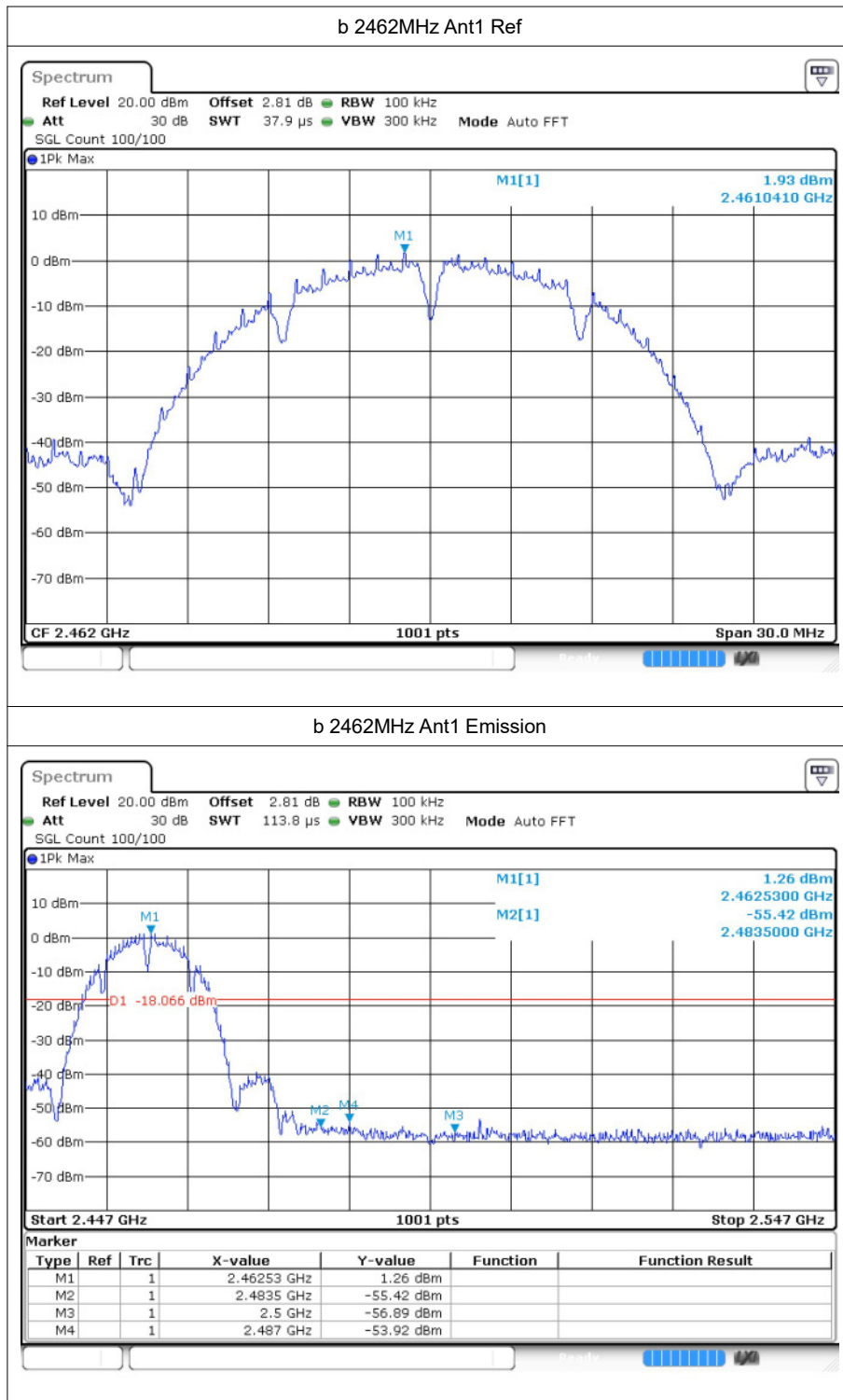
5 Band Edge

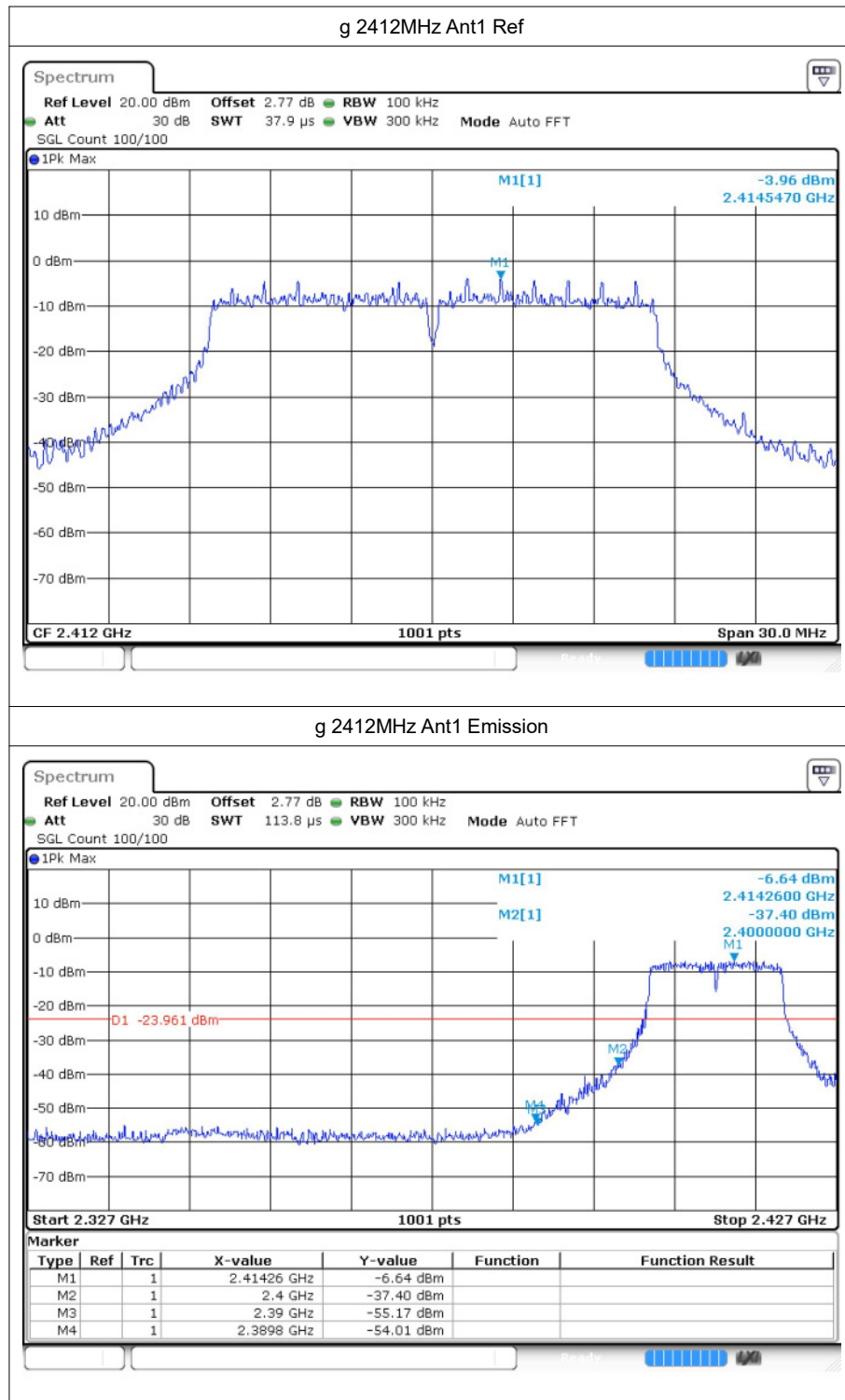
5.1 Test Result

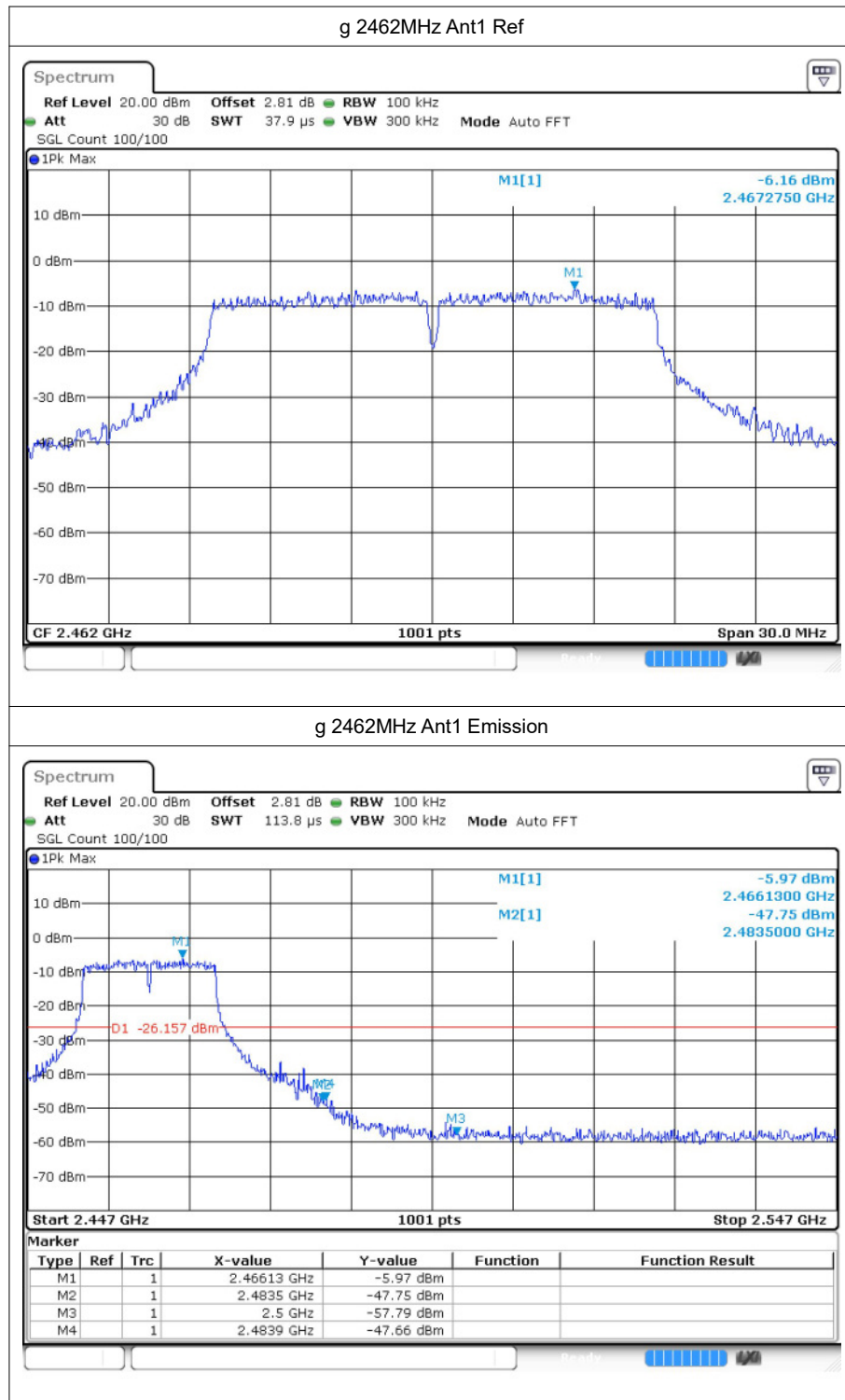
Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
b	2412	Ant1	-56.88	-20	Pass
b	2462	Ant1	-55.84	-20	Pass
g	2412	Ant1	-50.04	-20	Pass
g	2462	Ant1	-41.5	-20	Pass
n20	2412	Ant1	-47.34	-20	Pass
n20	2462	Ant1	-42.45	-20	Pass

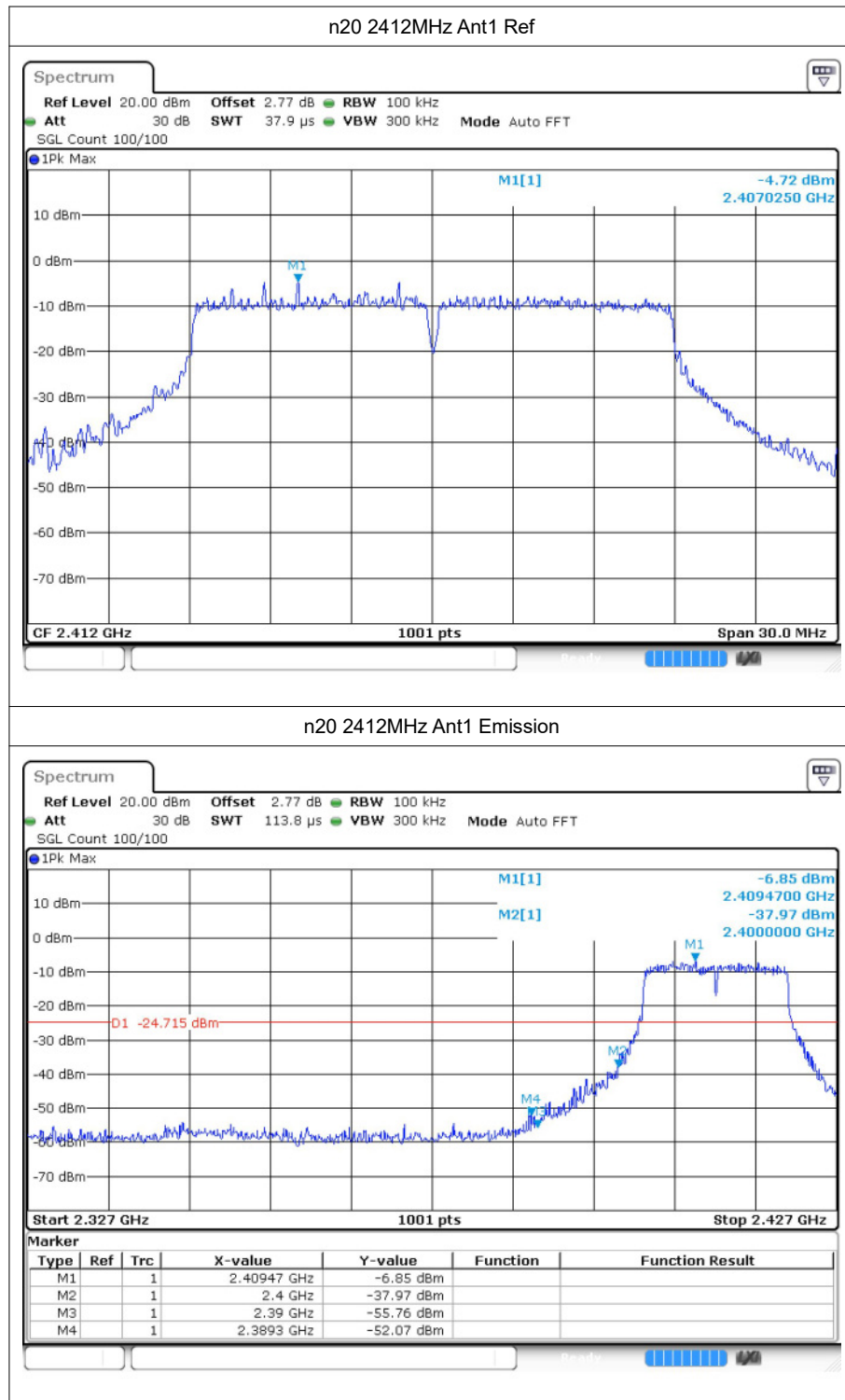
5.2 Test Graphs

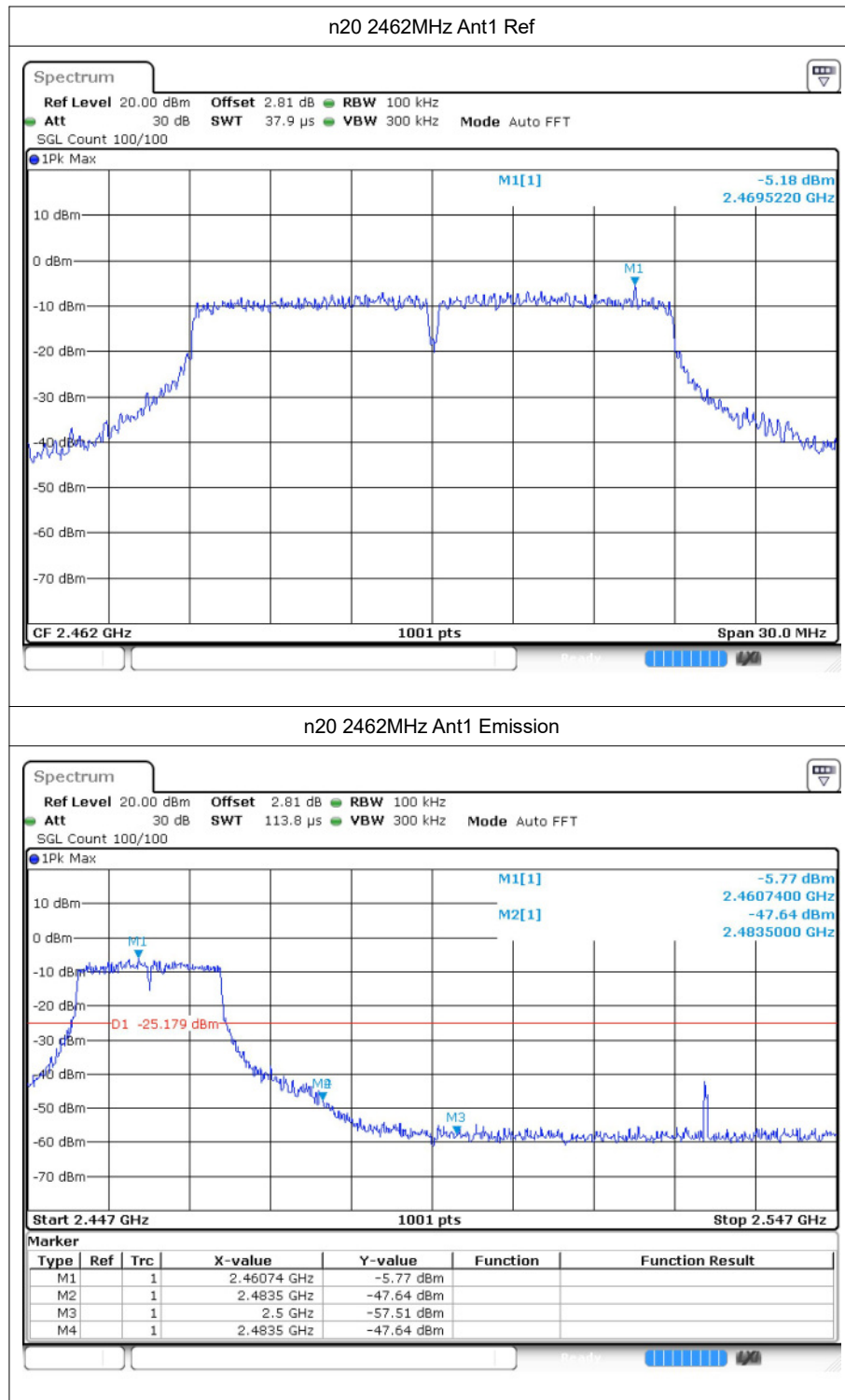














6 Conducted RF Spurious Emission

6.1 Test Result

Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
b	2412	Ant1	-45.25	-20	Pass
b	2437	Ant1	-45.28	-20	Pass
b	2462	Ant1	-45.18	-20	Pass
g	2412	Ant1	-36.35	-20	Pass
g	2437	Ant1	-40.5	-20	Pass
g	2462	Ant1	-37.11	-20	Pass
n20	2412	Ant1	-37.11	-20	Pass
n20	2437	Ant1	-37.9	-20	Pass
n20	2462	Ant1	-36.96	-20	Pass

6.2 Test Graphs

