



Appendix C

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: Hidden wifi Car Dashcam

Trade Mark: N/A

Test Model: D97

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	9
2.1 Test Result	9
3 -6dB Bandwidth	10
3.1 Test Result	10
3.2 Test Graphs	11
4 Maximum Power Spectral Density Level	16
4.1 Test Result	16
4.2 Test Graphs	17
5 Band Edge	22
5.1 Test Result	22
5.2 Test Graphs	23
6 Conducted RF Spurious Emission	29
6.1 Test Result	29
6.2 Test Graphs	30
7 Restrict Band	39
7.1 Test Result	39
7.2 Test Graphs	41

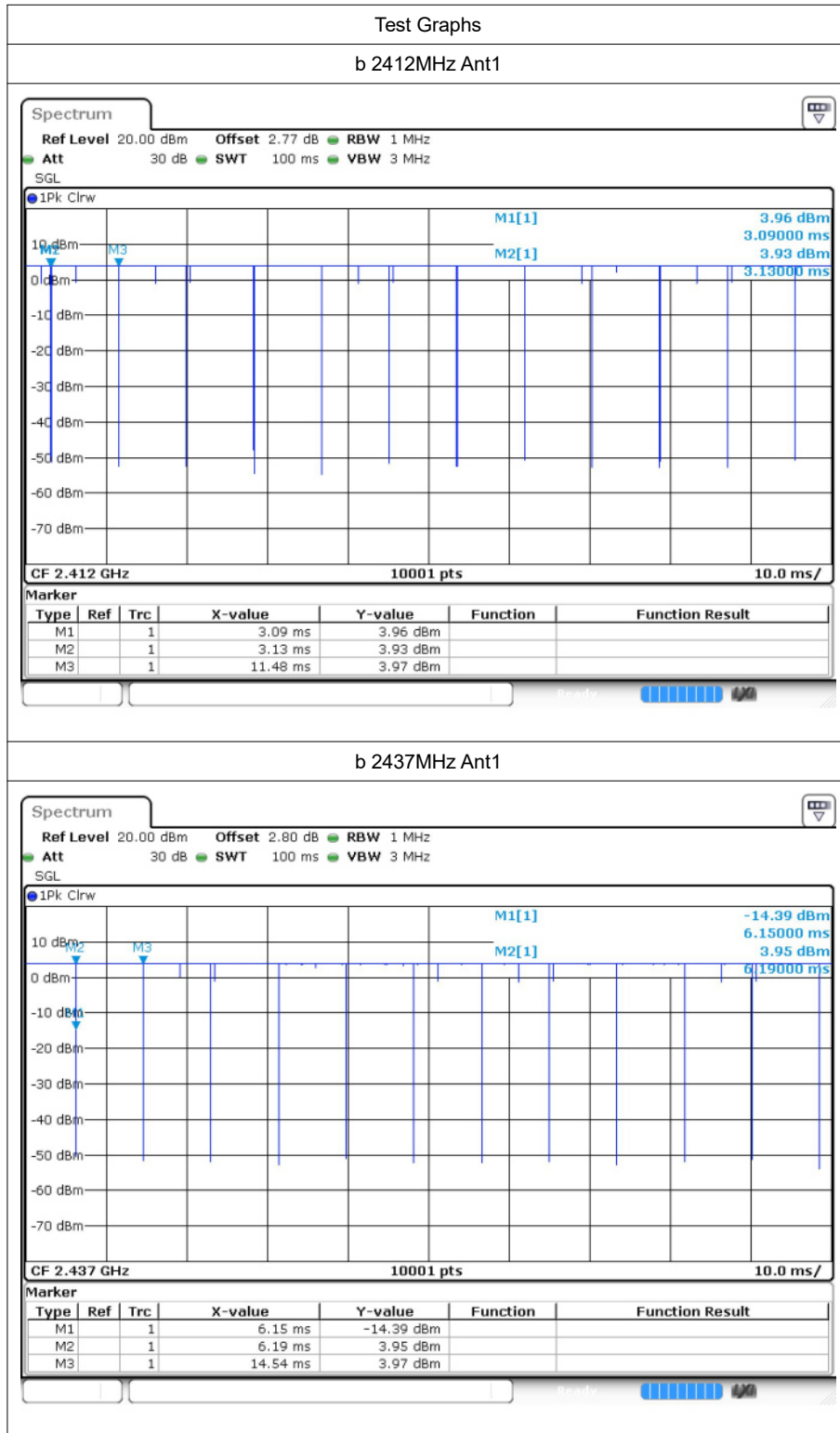


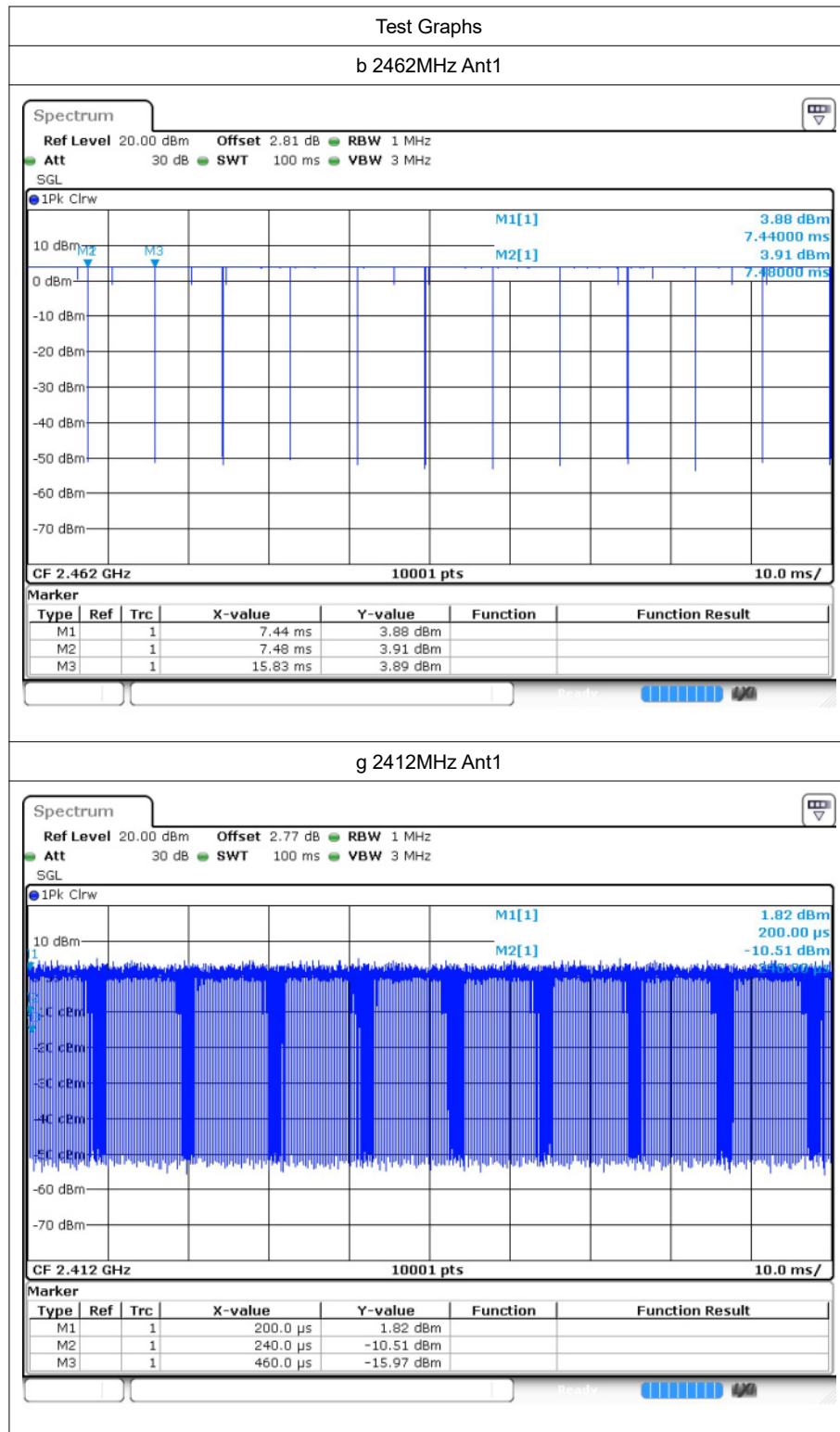
1 Duty Cycle

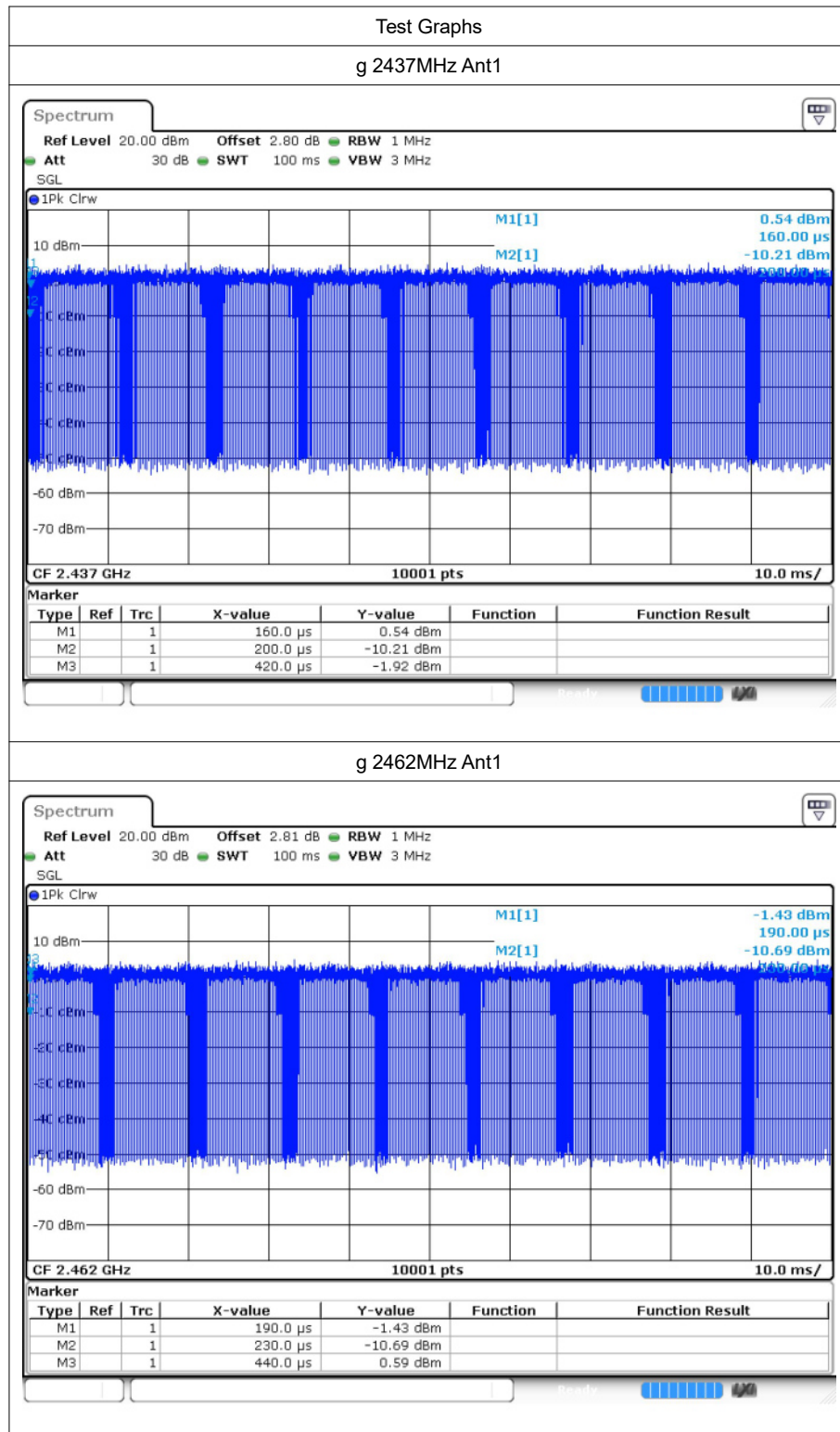
1.1 Test Result

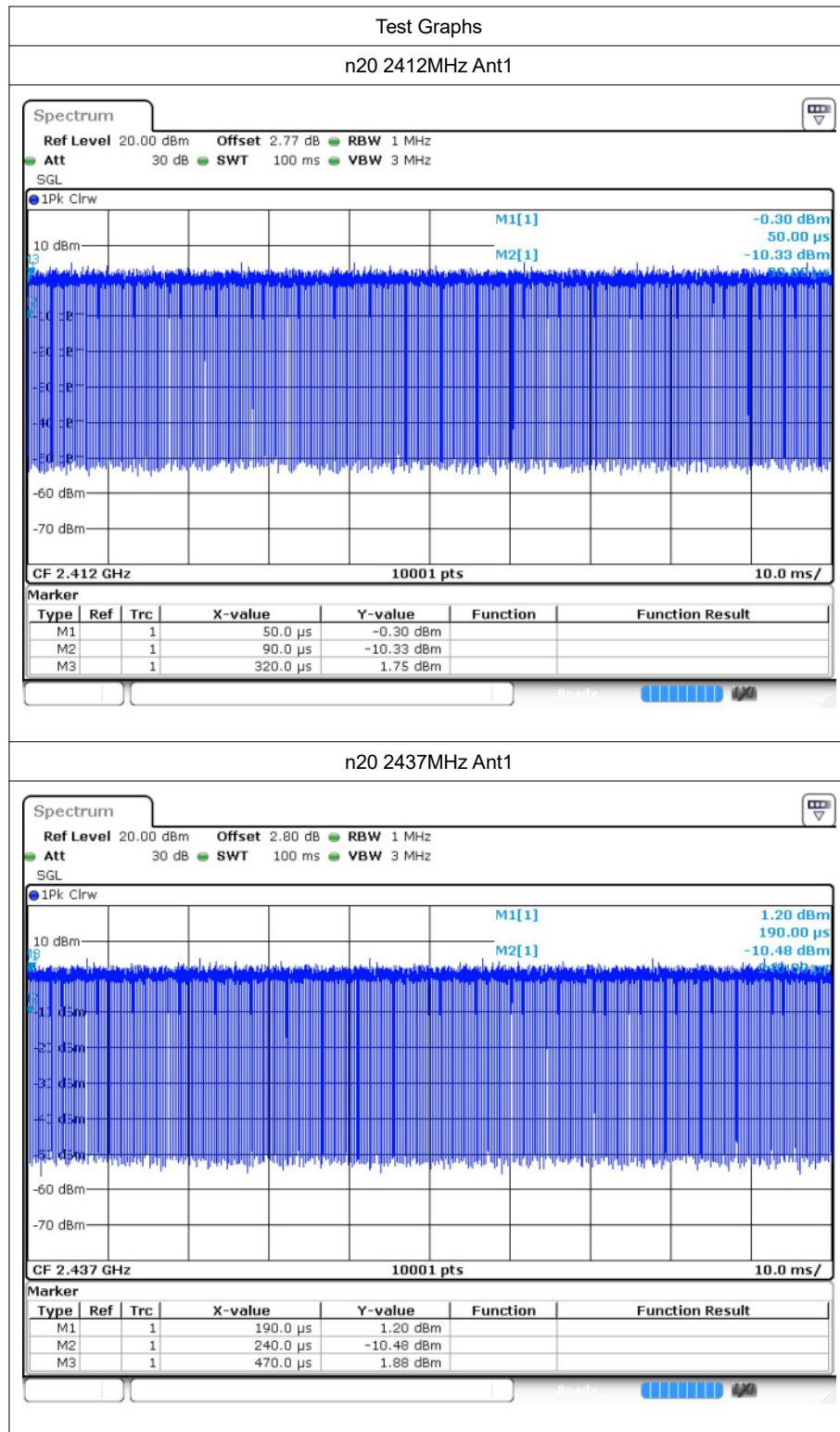
Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor	1/T (kHz)
b	2412	Ant1	99.61	0.02	0.12
b	2437	Ant1	99.61	0.02	0.12
b	2462	Ant1	99.61	0.02	0.12
g	2412	Ant1	87.1	0.6	4.55
g	2437	Ant1	86.88	0.61	4.55
g	2462	Ant1	86.94	0.61	4.76
n20	2412	Ant1	87.58	0.58	4.35
n20	2437	Ant1	87.6	0.57	4.35
n20	2462	Ant1	87.6	0.57	4.17

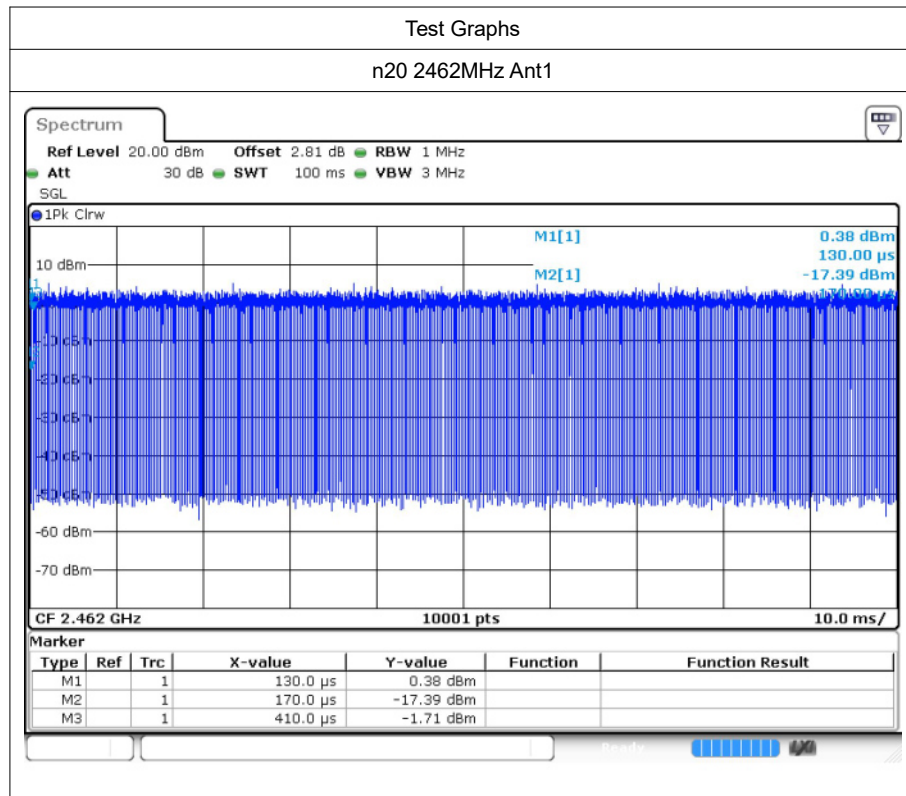
1.2 Test Graphs











2 Maximum Conducted Output Power

2.1 Test Result

Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
b	2412	Ant1	14.4	30	Pass
b	2437	Ant1	14.3	30	Pass
b	2462	Ant1	14.31	30	Pass
g	2412	Ant1	14.18	30	Pass
g	2437	Ant1	14.21	30	Pass
g	2462	Ant1	14.19	30	Pass
n20	2412	Ant1	14.14	30	Pass
n20	2437	Ant1	14.07	30	Pass
n20	2462	Ant1	14.14	30	Pass

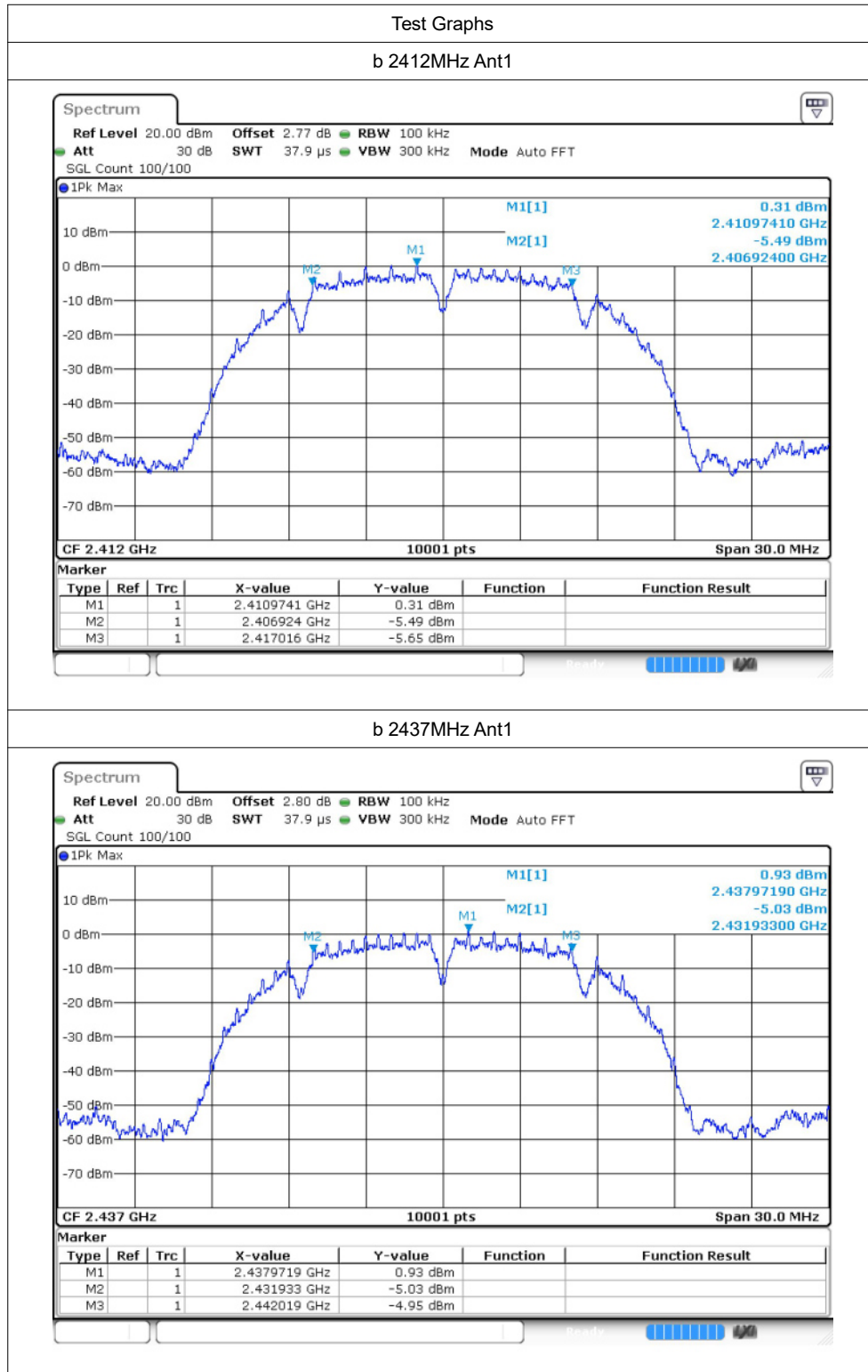


3 -6dB Bandwidth

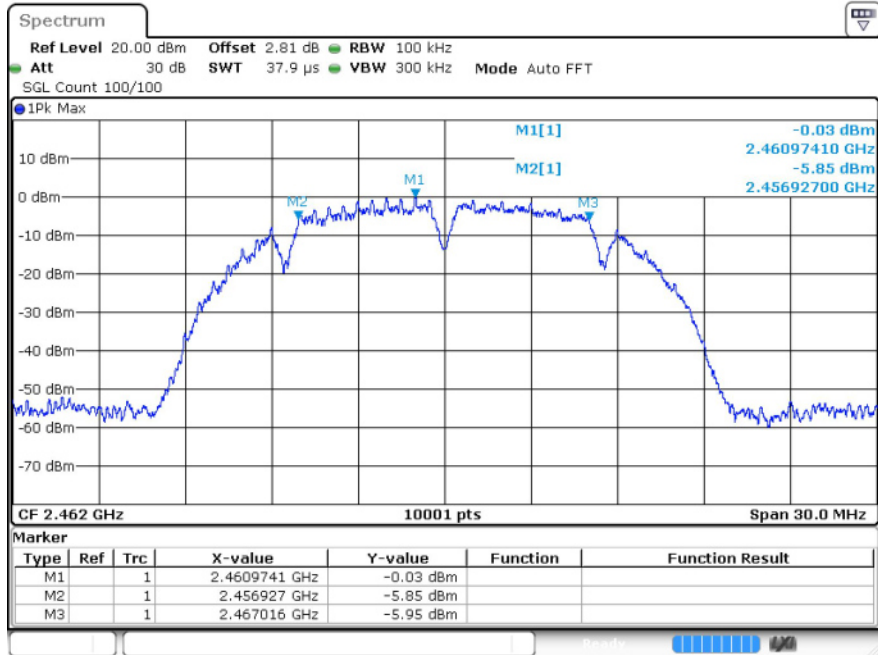
3.1 Test Result

Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
b	2412	Ant1	10.092	0.5	Pass
b	2437	Ant1	10.086	0.5	Pass
b	2462	Ant1	10.089	0.5	Pass
g	2412	Ant1	15.111	0.5	Pass
g	2437	Ant1	15.117	0.5	Pass
g	2462	Ant1	15.129	0.5	Pass
n20	2412	Ant1	15.108	0.5	Pass
n20	2437	Ant1	13.842	0.5	Pass
n20	2462	Ant1	15.114	0.5	Pass

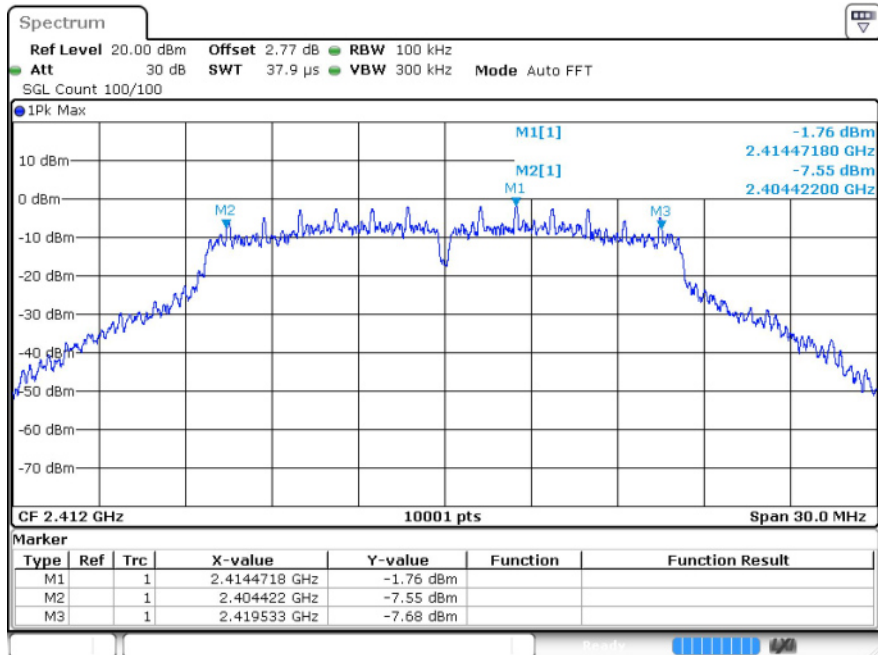
3.2 Test Graphs



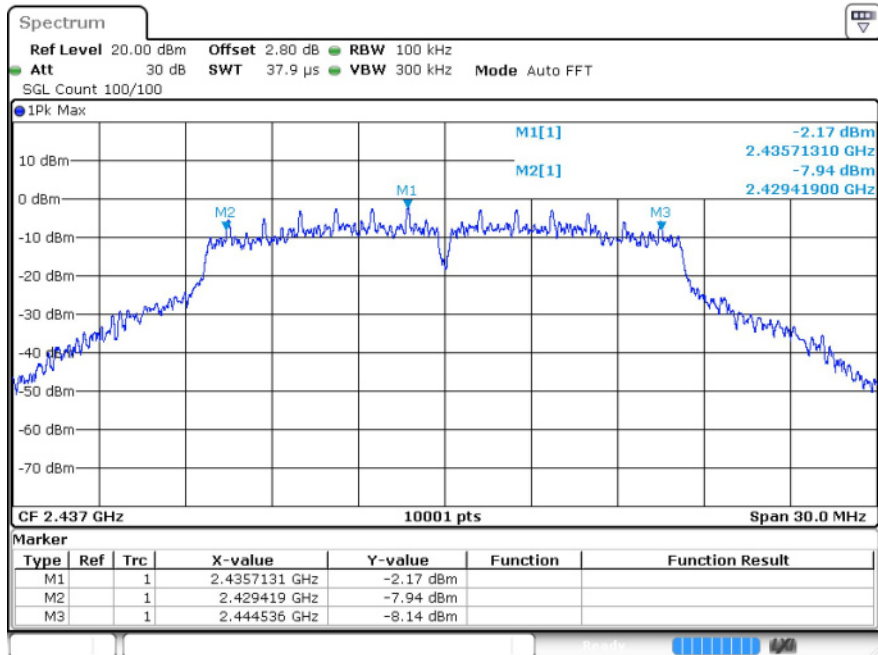
b 2462MHz Ant1



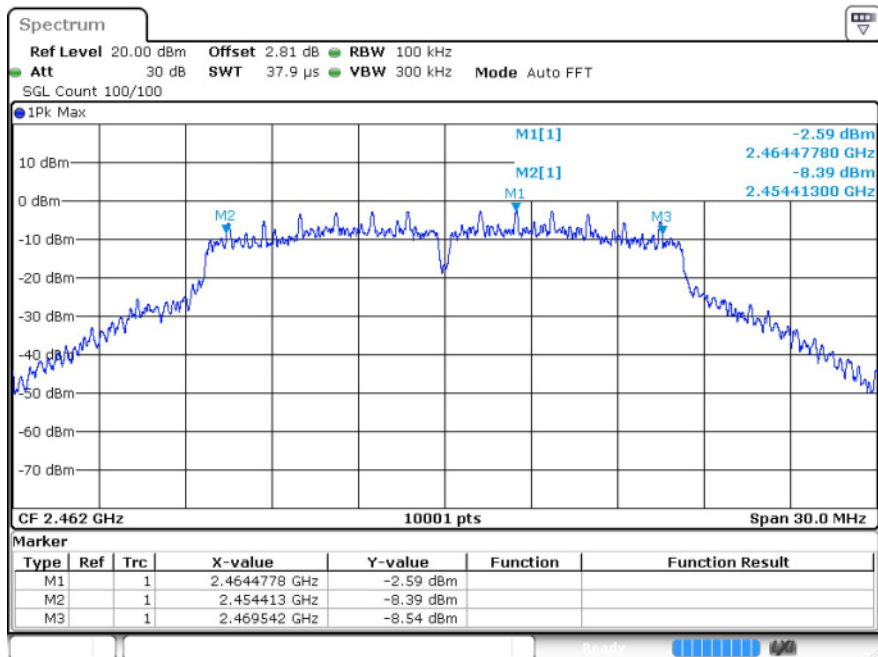
g 2412MHz Ant1

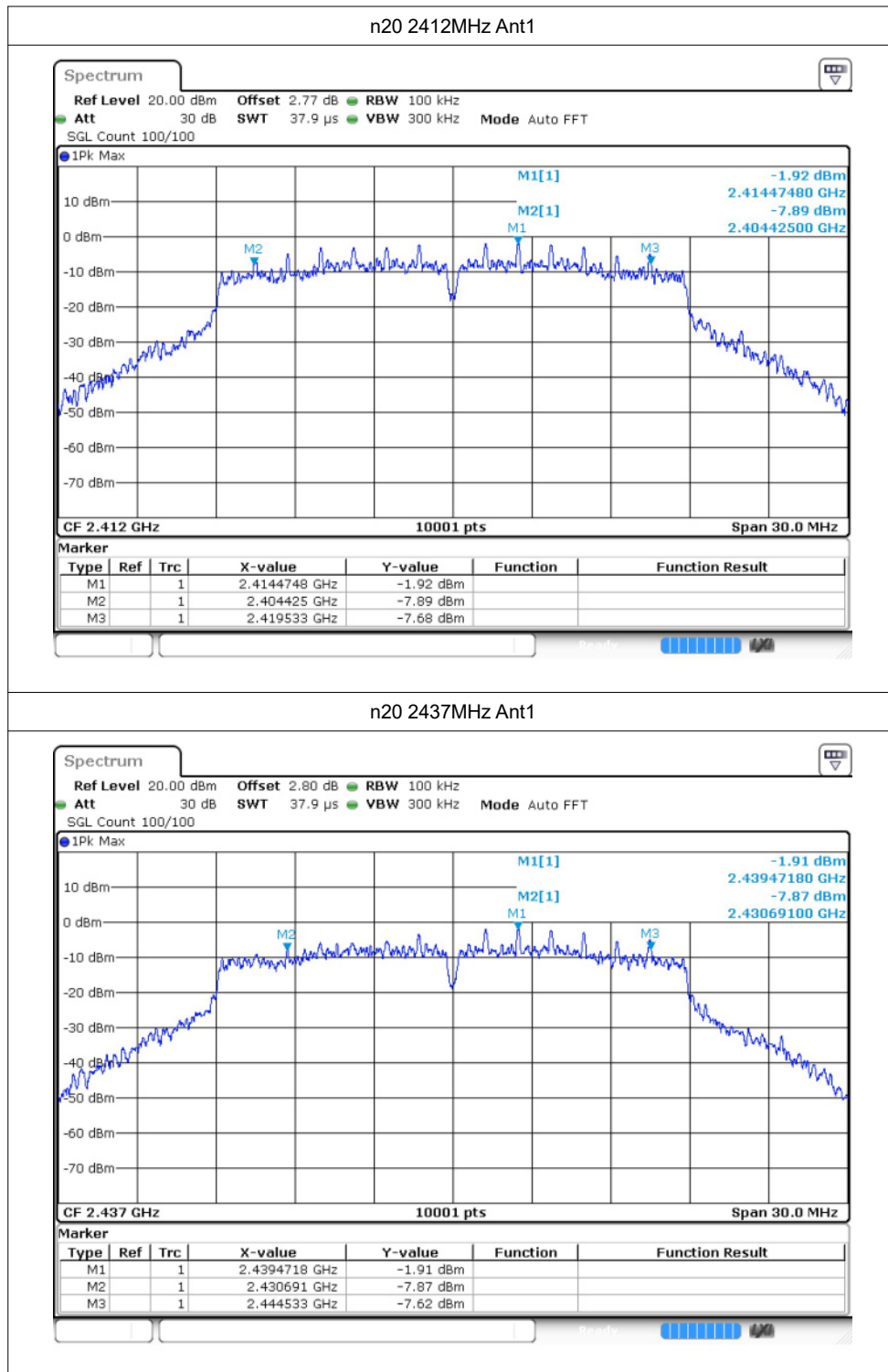


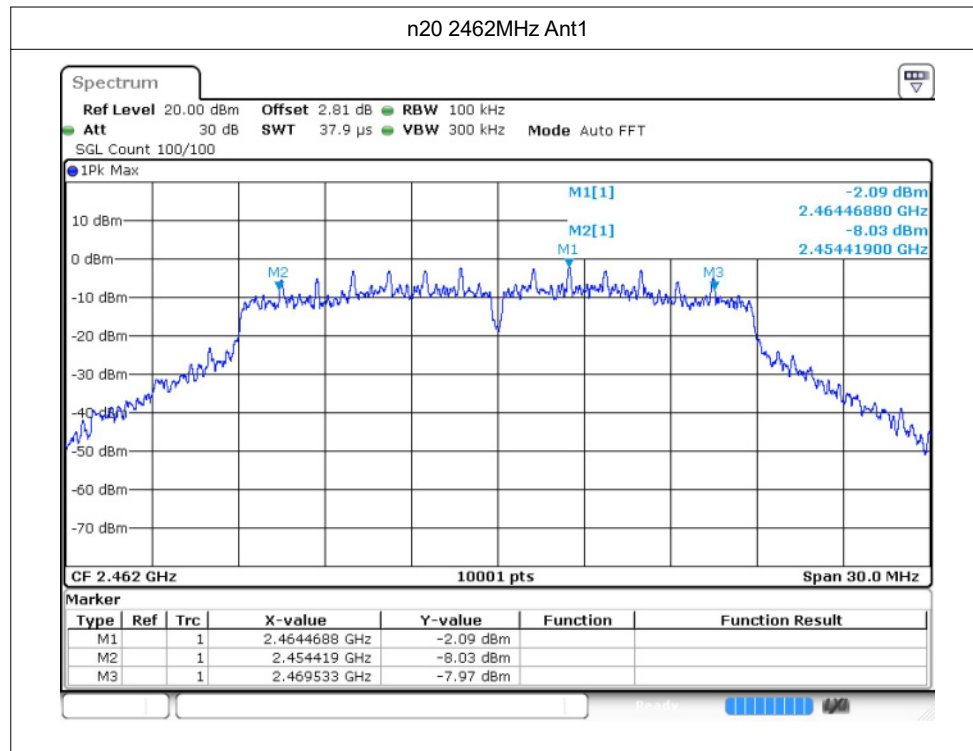
g 2437MHz Ant1



g 2462MHz Ant1





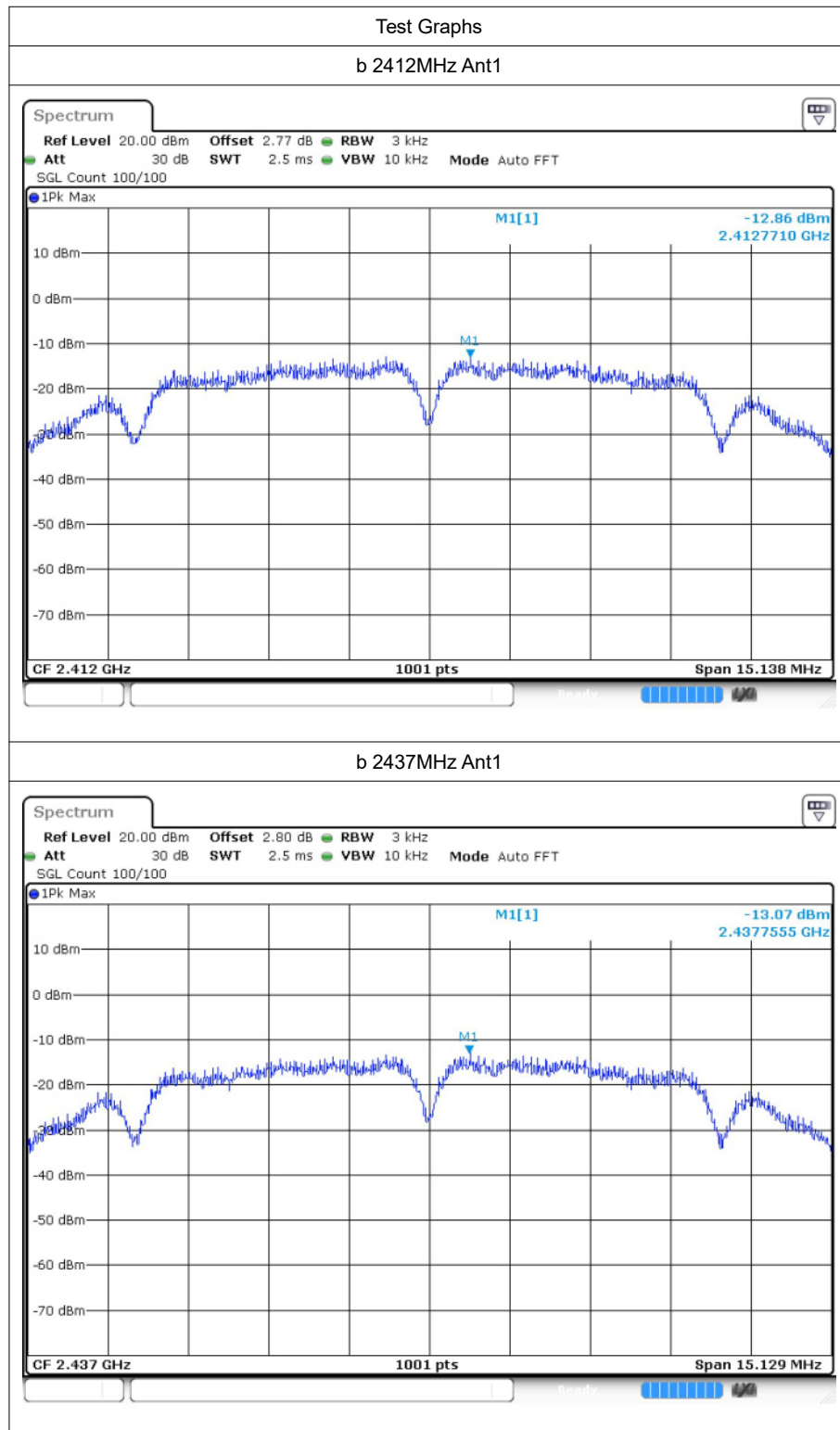


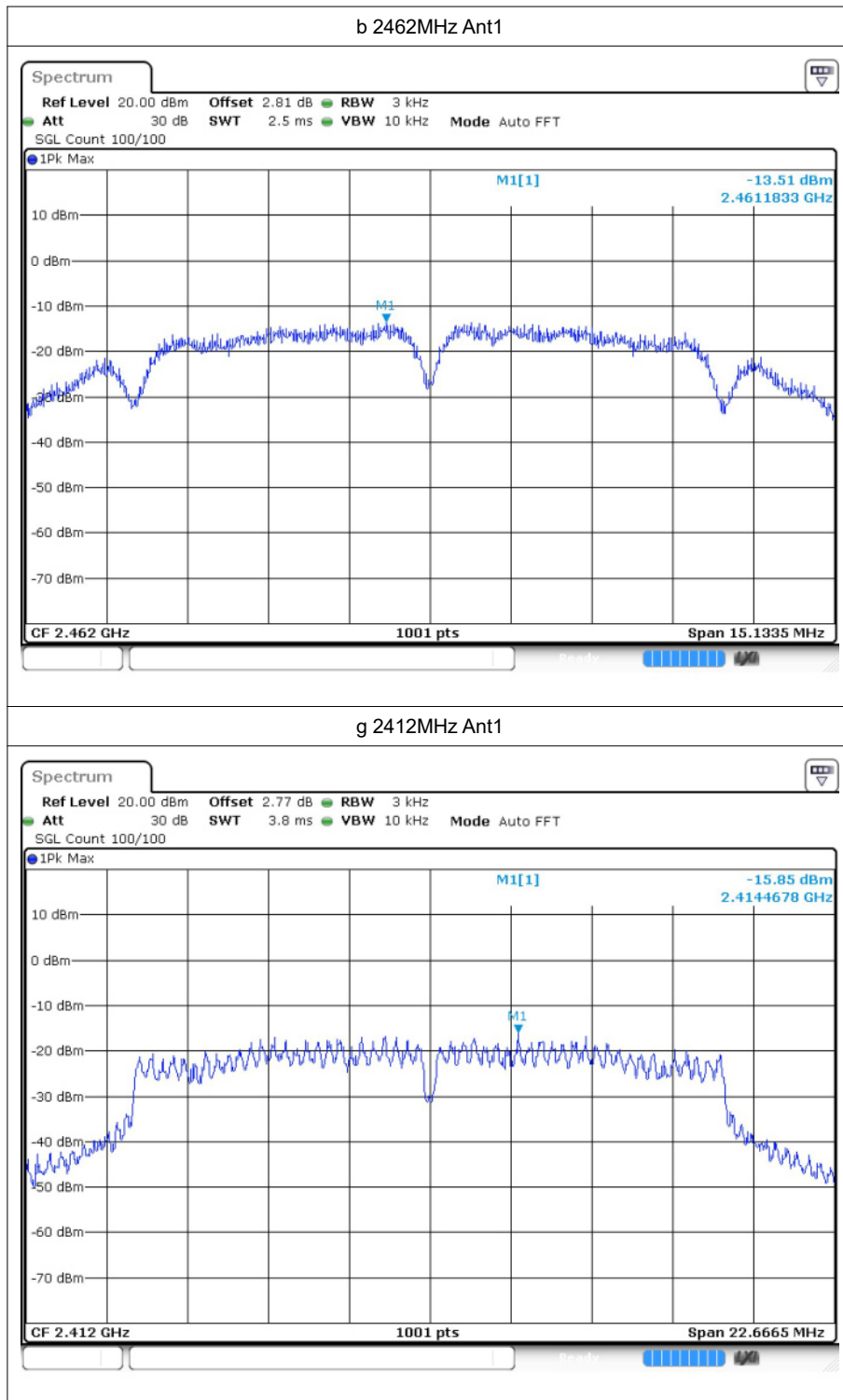
4 Maximum Power Spectral Density Level

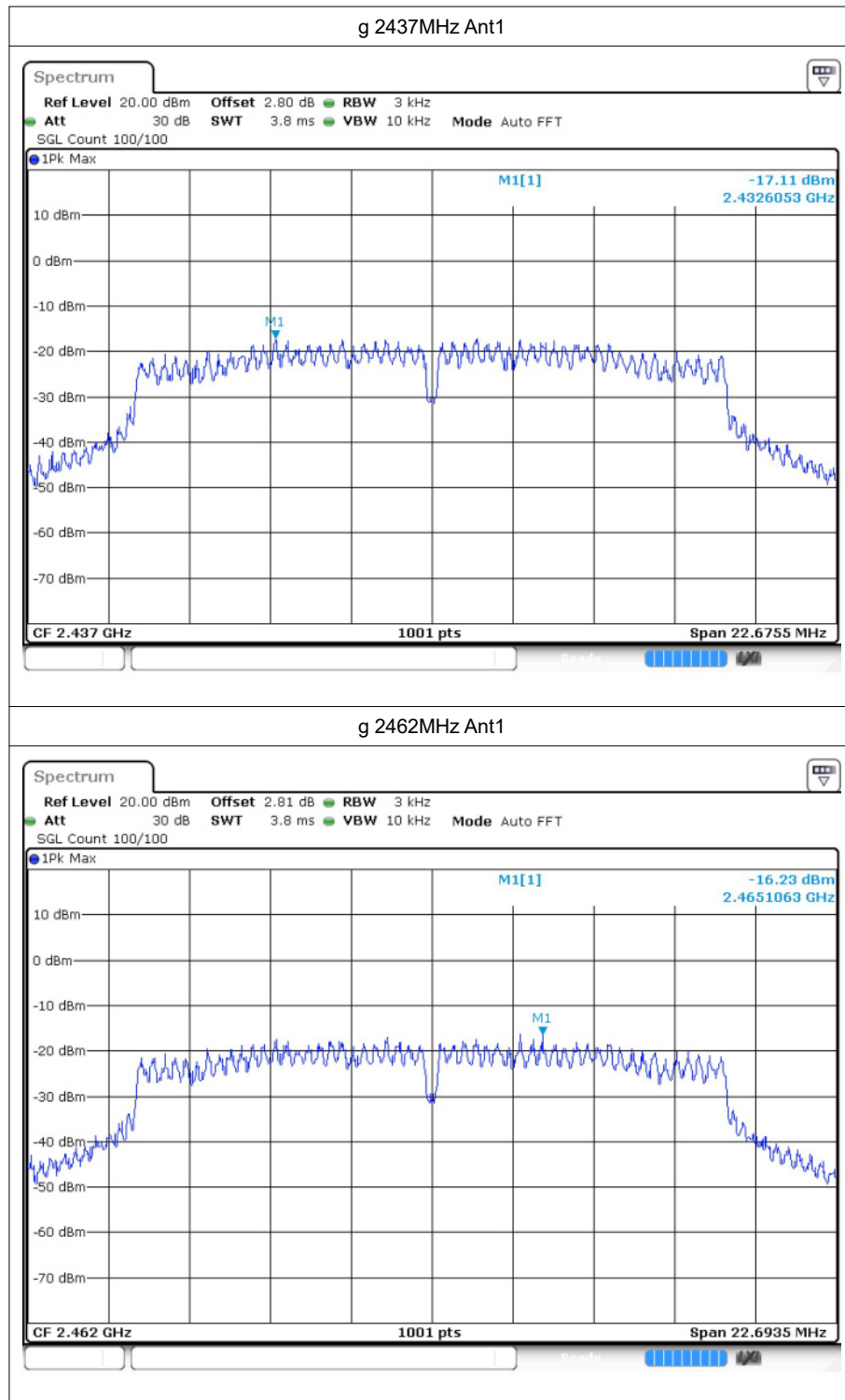
4.1 Test Result

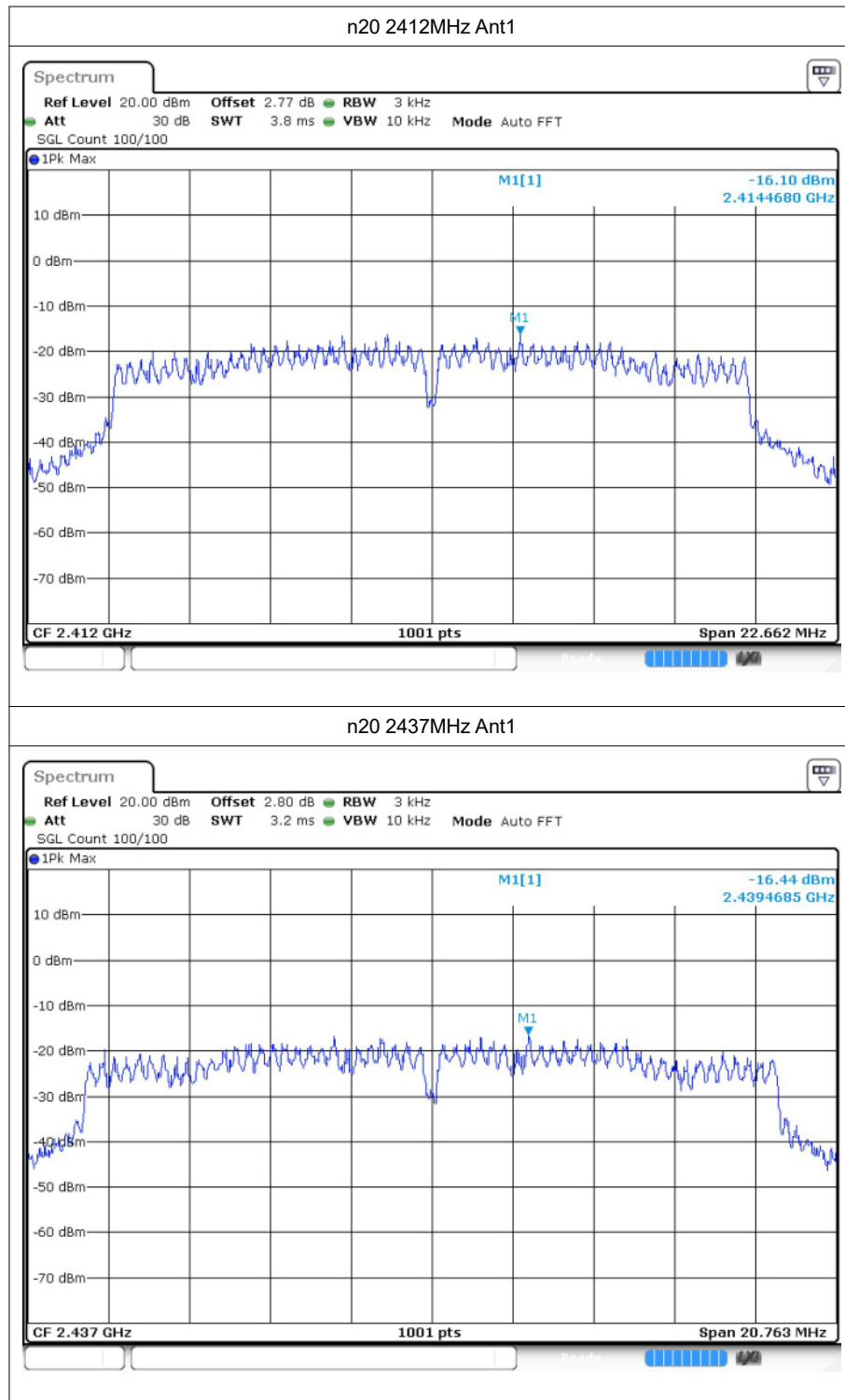
Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3-100kHz)	Limit (dBm/3kHz)	Verdict
b	2412	Ant1	-12.86	≤ 8	Pass
b	2437	Ant1	-13.07	≤ 8	Pass
b	2462	Ant1	-13.51	≤ 8	Pass
g	2412	Ant1	-15.85	≤ 8	Pass
g	2437	Ant1	-17.11	≤ 8	Pass
g	2462	Ant1	-16.23	≤ 8	Pass
n20	2412	Ant1	-16.1	≤ 8	Pass
n20	2437	Ant1	-16.44	≤ 8	Pass
n20	2462	Ant1	-16.34	≤ 8	Pass

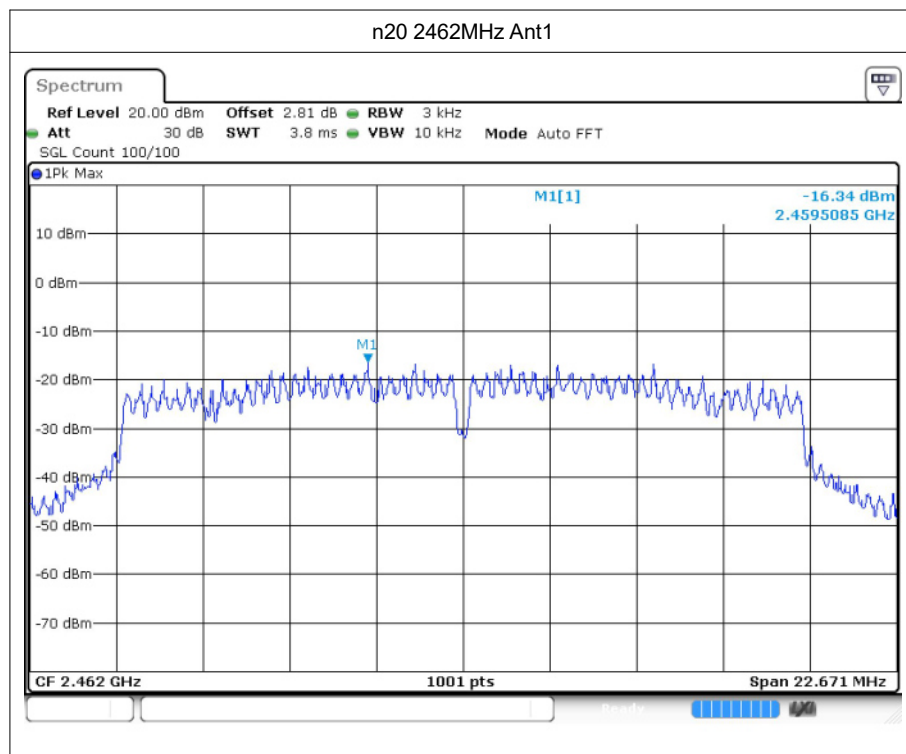
4.2 Test Graphs











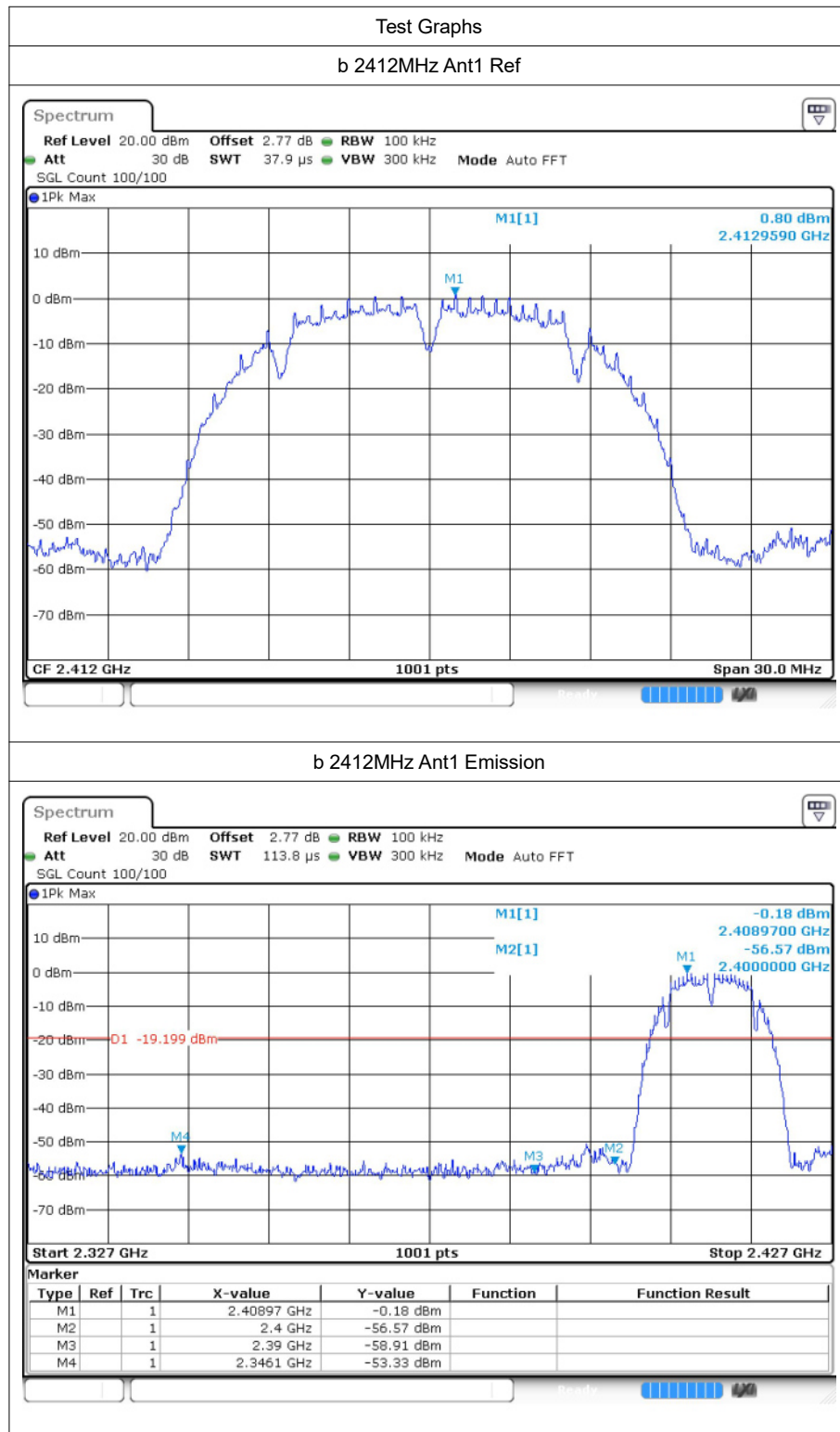


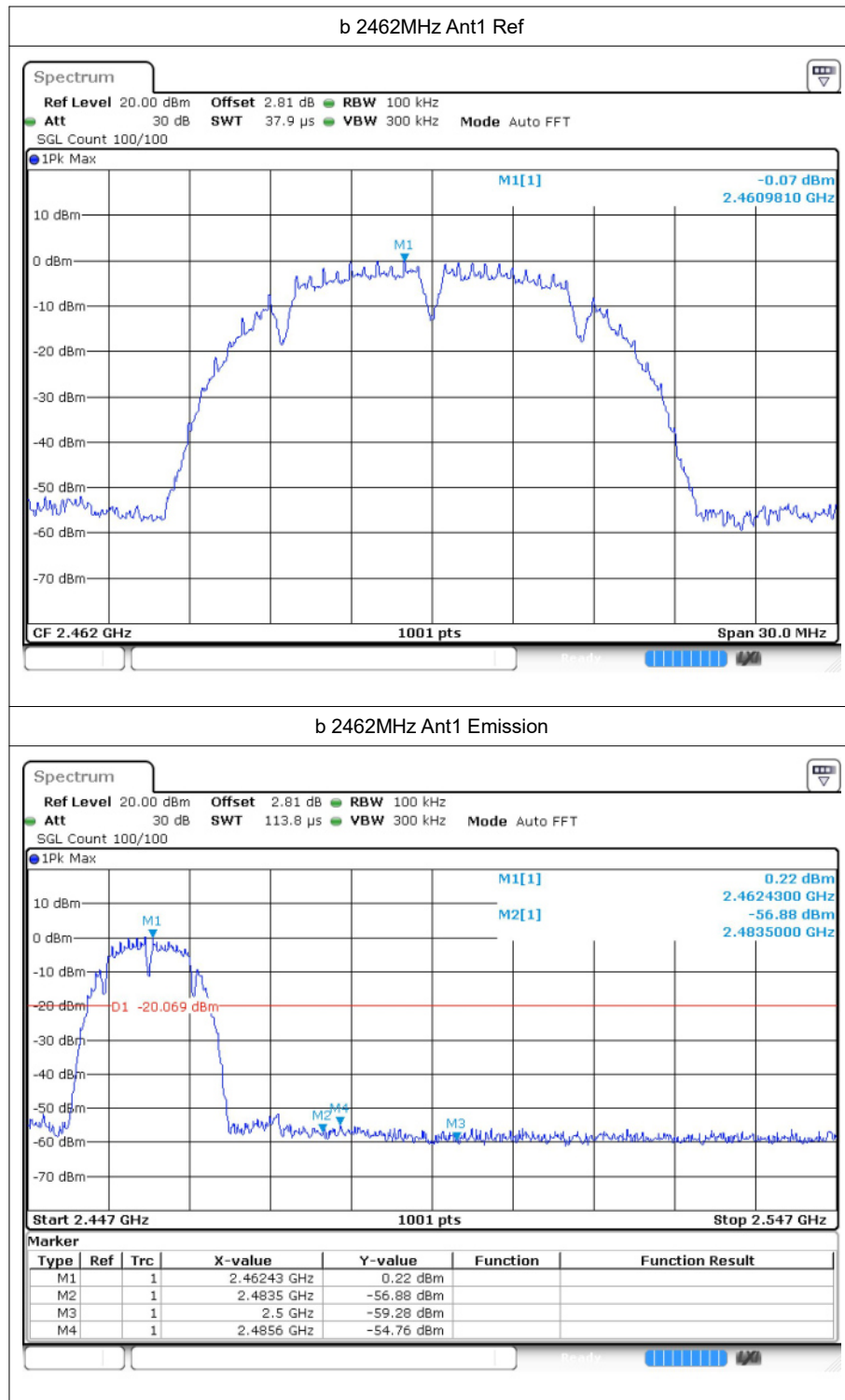
5 Band Edge

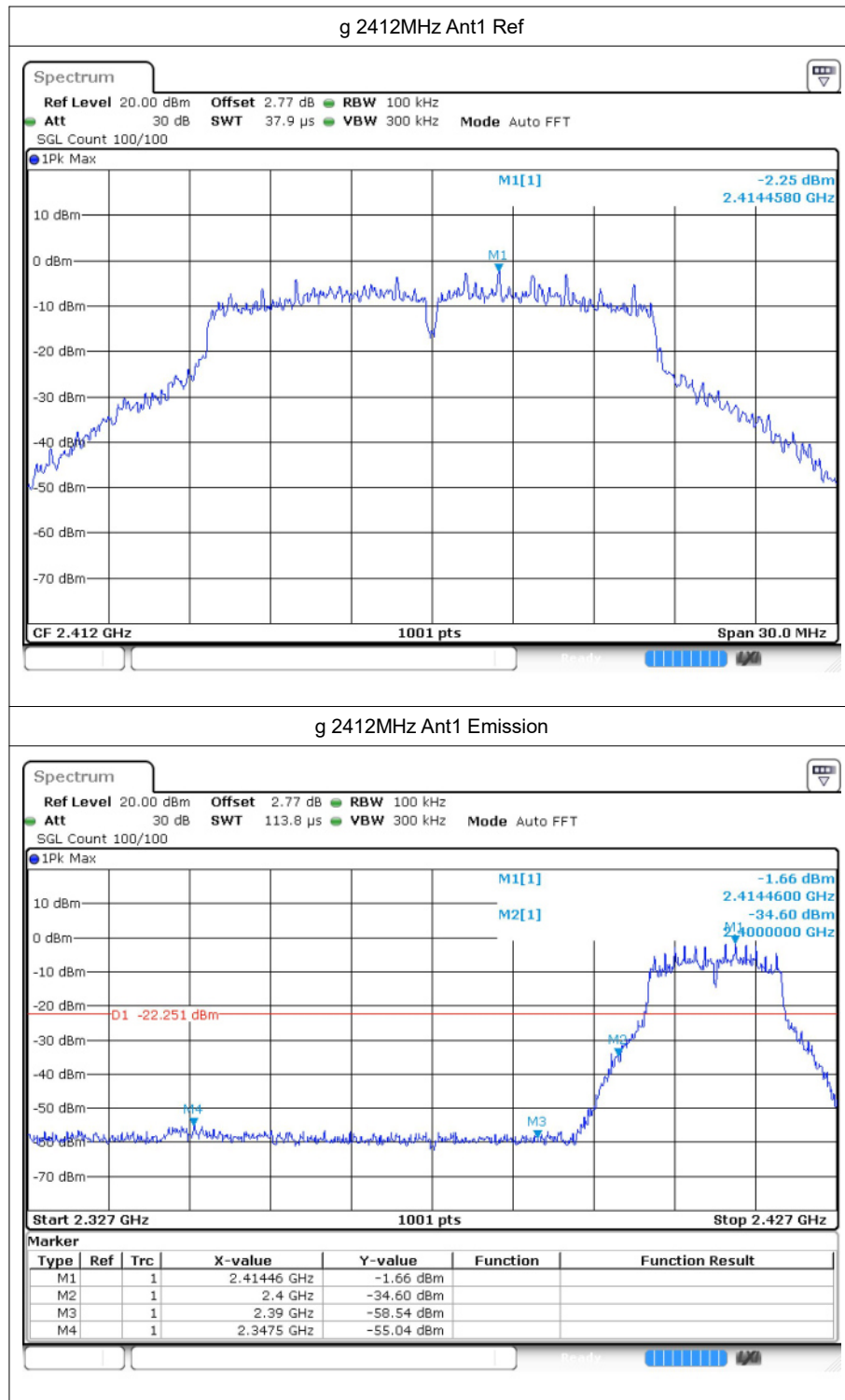
5.1 Test Result

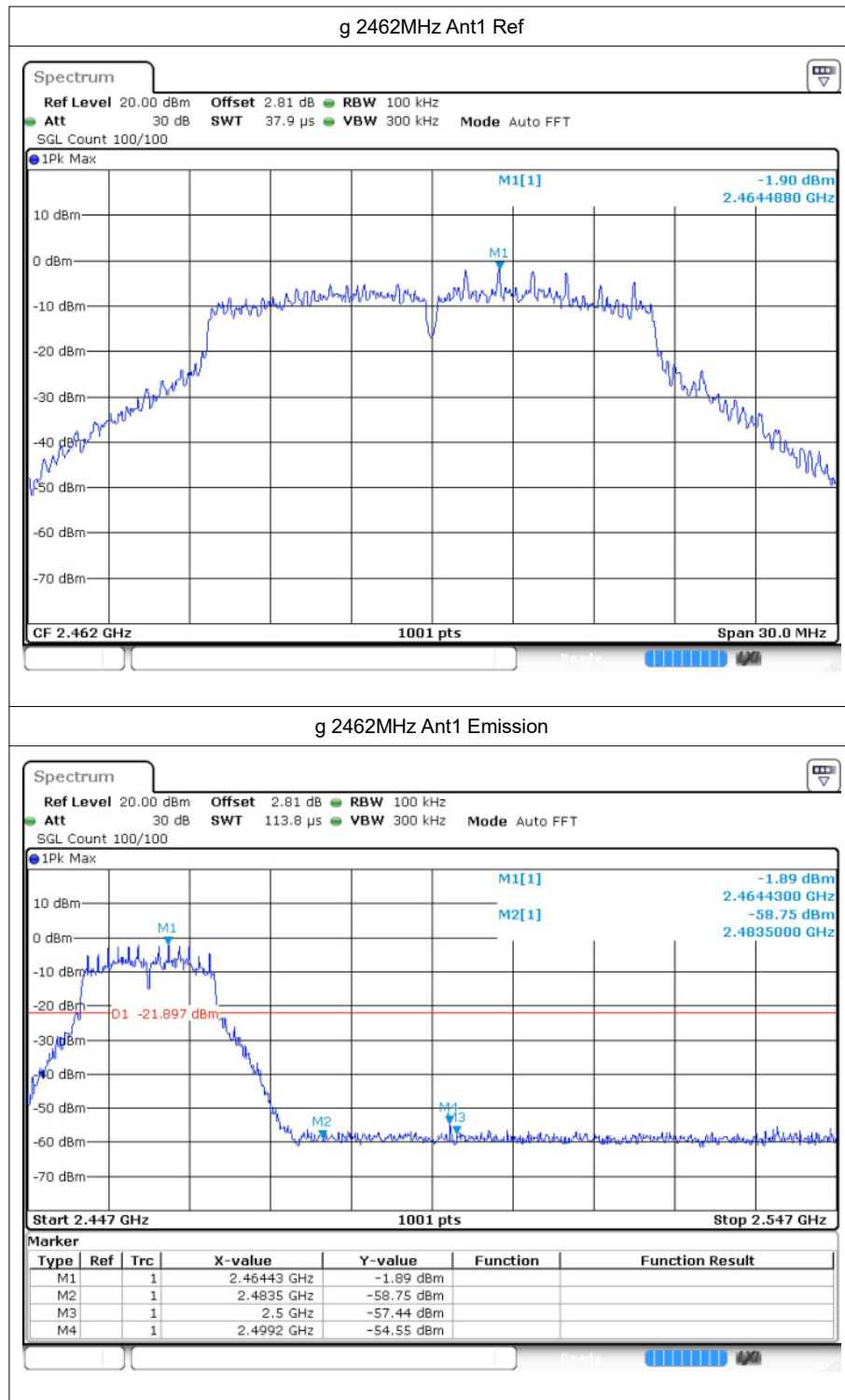
Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
b	2412	Ant1	-54.13	-20	Pass
b	2462	Ant1	-54.68	-20	Pass
g	2412	Ant1	-52.79	-20	Pass
g	2462	Ant1	-52.64	-20	Pass
n20	2412	Ant1	-52.84	-20	Pass
n20	2462	Ant1	-53	-20	Pass

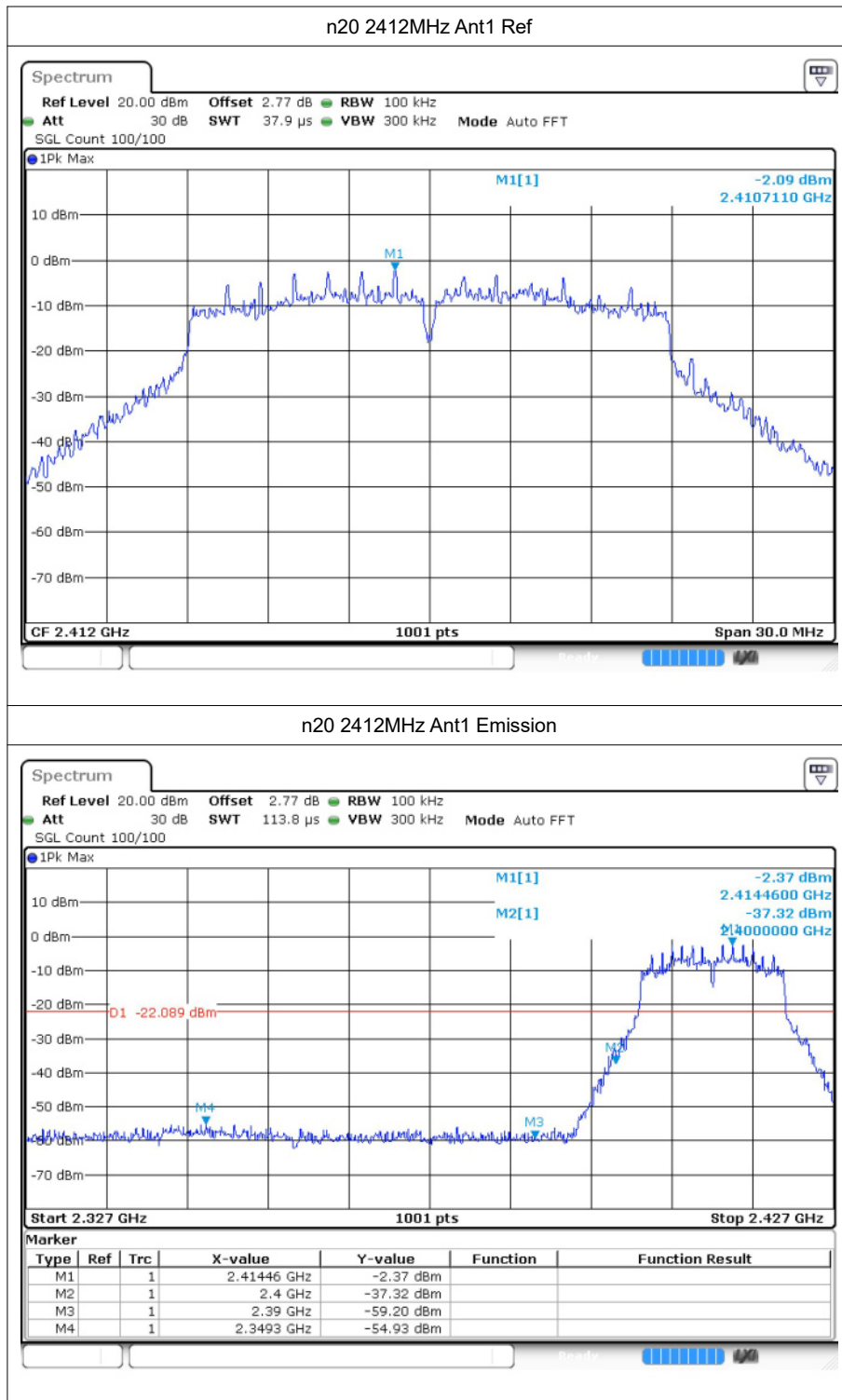
5.2 Test Graphs

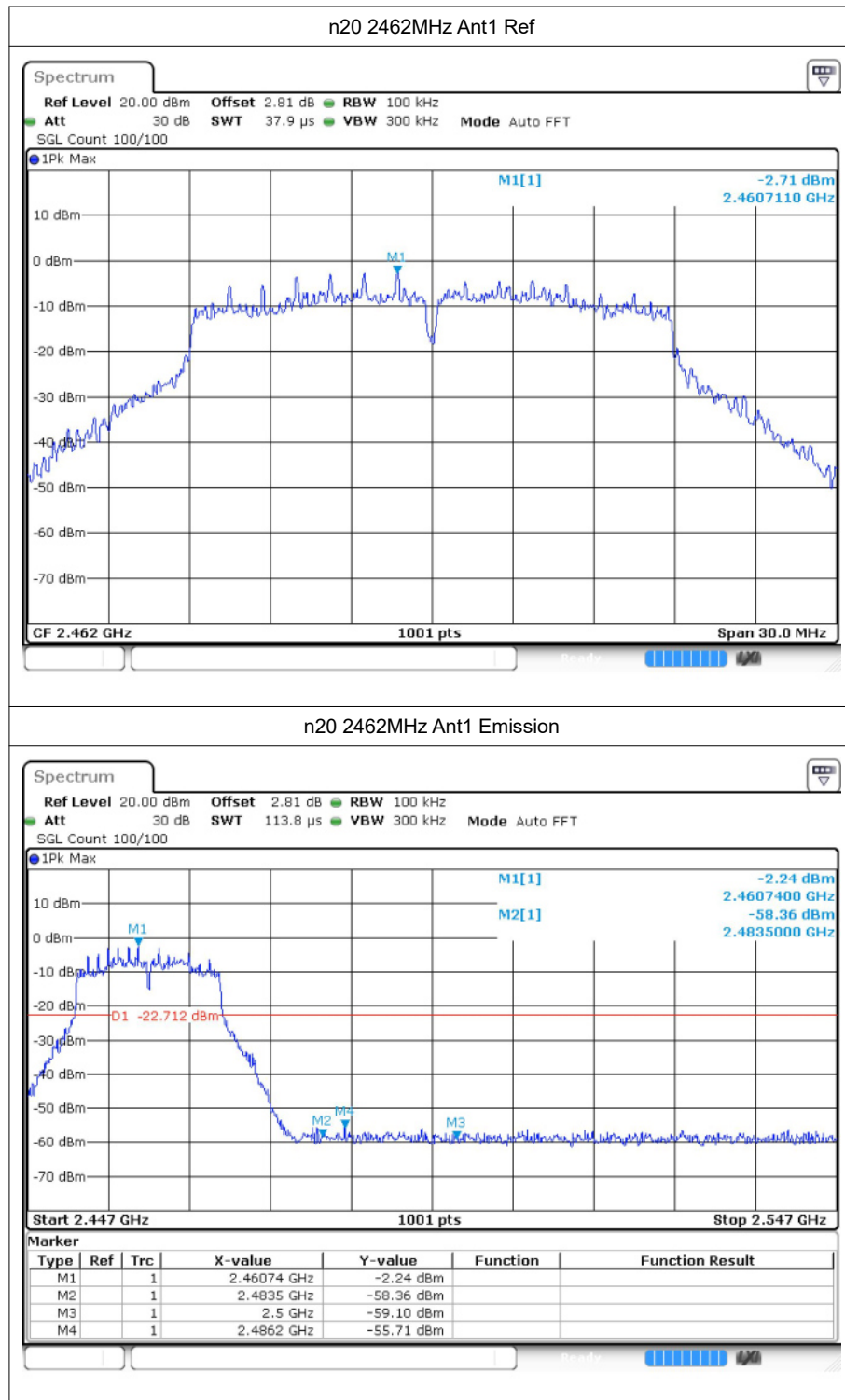












6 Conducted RF Spurious Emission

6.1 Test Result

Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
b	2412	Ant1	-42.48	-20	Pass
b	2437	Ant1	-42.86	-20	Pass
b	2462	Ant1	-41.95	-20	Pass
g	2412	Ant1	-41.95	-20	Pass
g	2437	Ant1	-40.75	-20	Pass
g	2462	Ant1	-40.89	-20	Pass
n20	2412	Ant1	-39.15	-20	Pass
n20	2437	Ant1	-40.96	-20	Pass
n20	2462	Ant1	-40.12	-20	Pass

6.2 Test Graphs

