



Appendix C

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: High-definition dashcam

Trade Mark: N/A

Test Model: DC20251

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

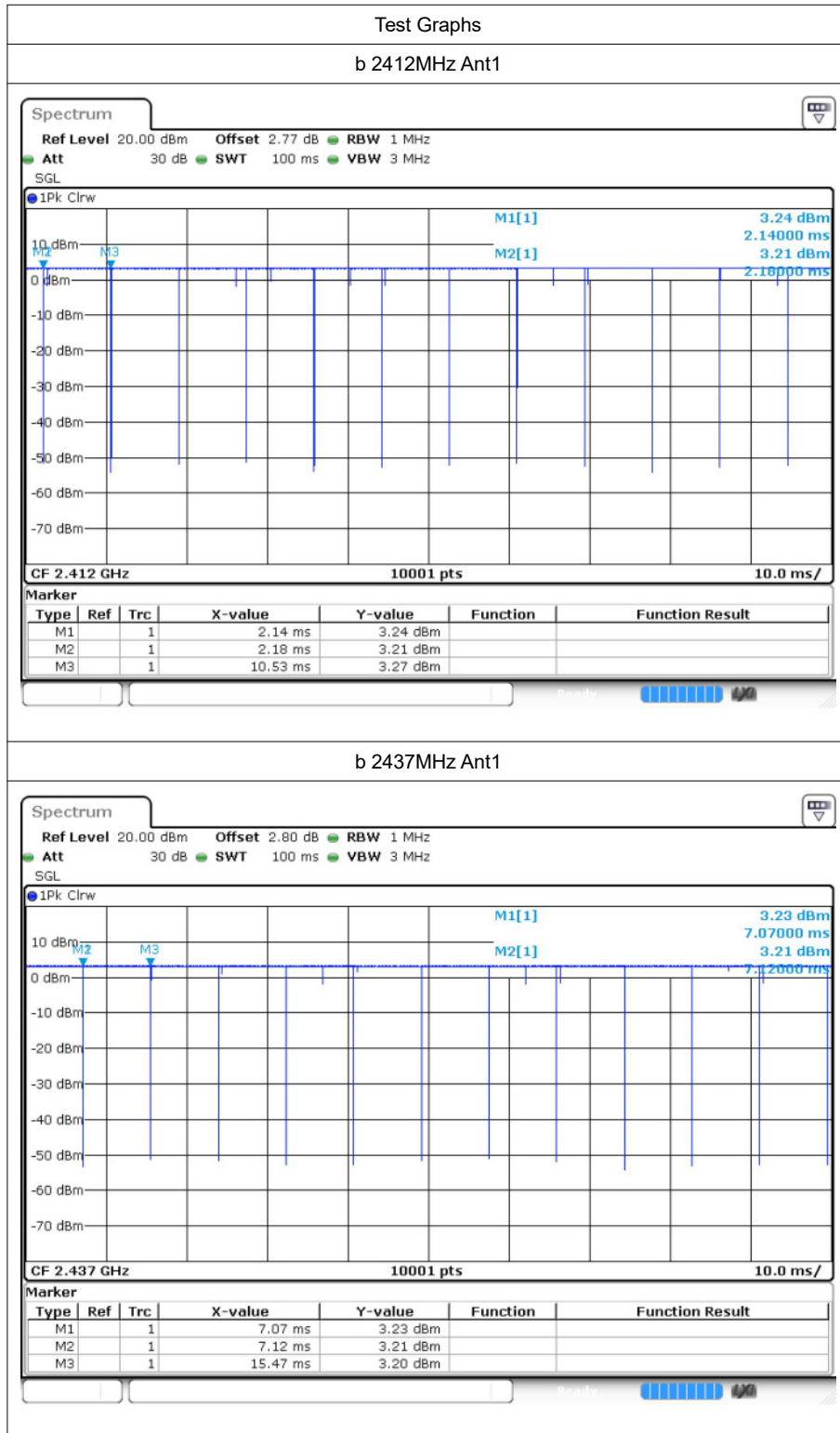


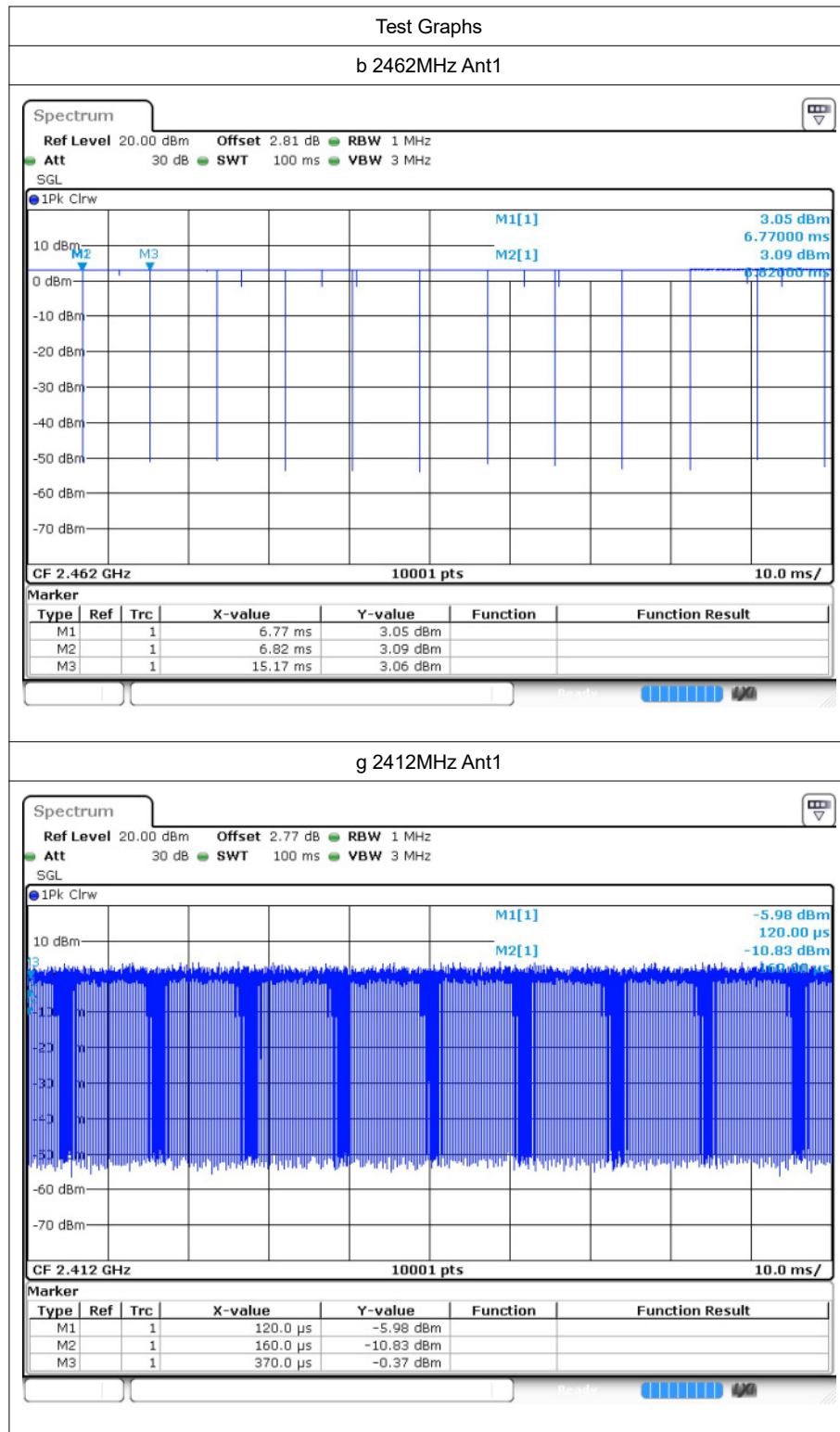
1 Duty Cycle

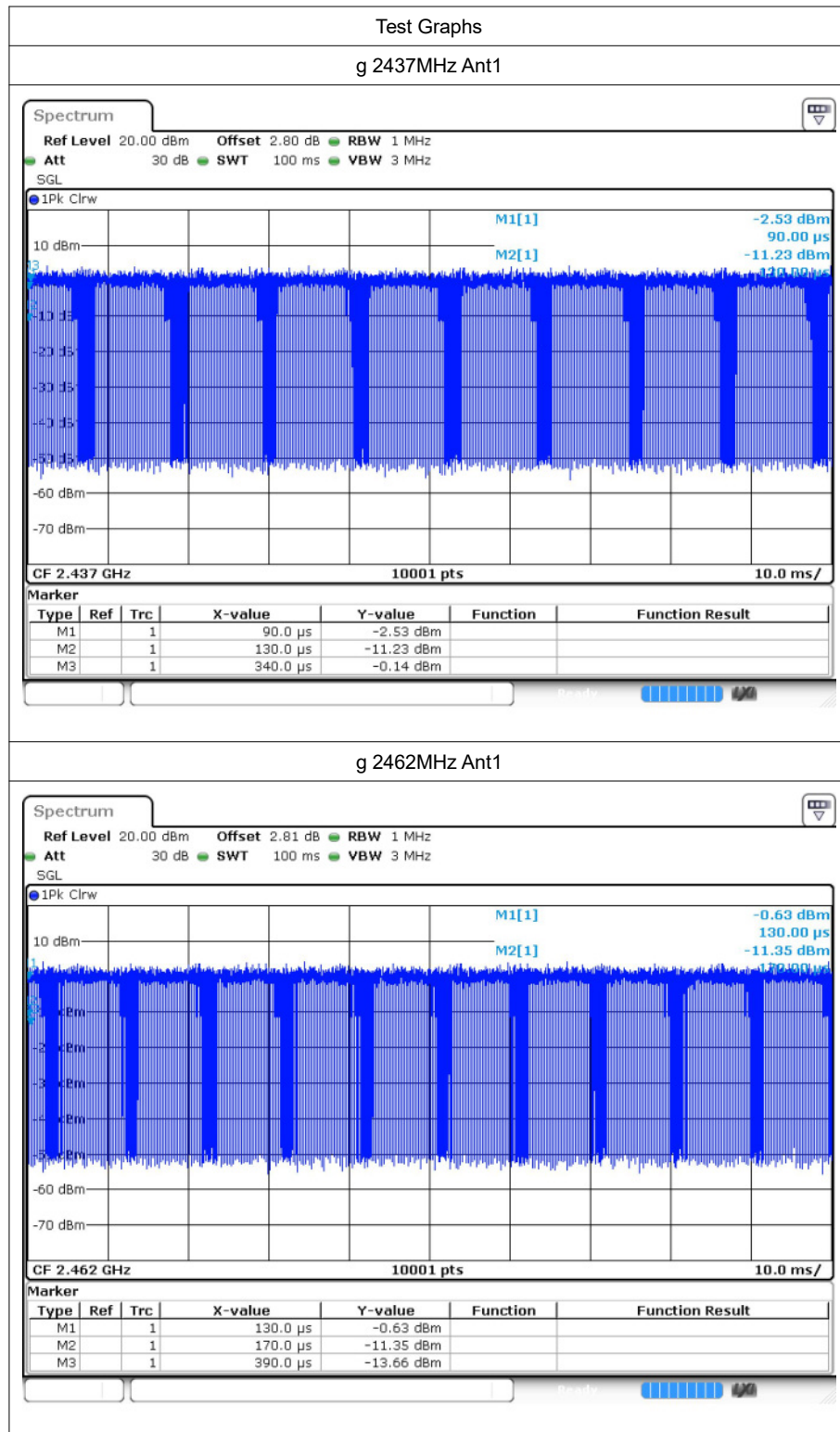
1.1 Test Result

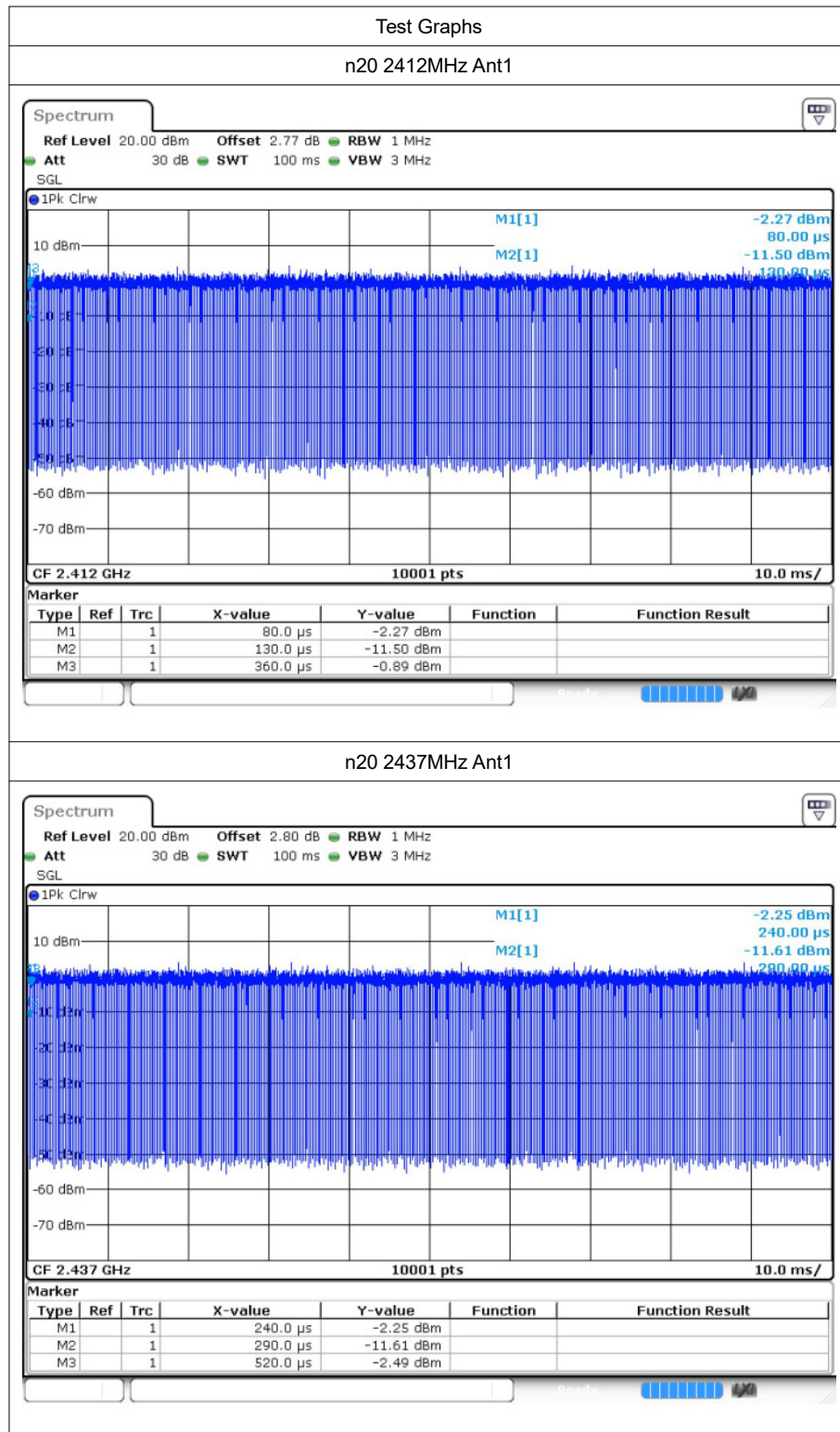
Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor	1/T (kHz)
b	2412	Ant1	99.6	0.02	0.12
b	2437	Ant1	99.6	0.02	0.12
b	2462	Ant1	99.6	0.02	0.12
g	2412	Ant1	86.94	0.61	4.76
g	2437	Ant1	86.98	0.61	4.76
g	2462	Ant1	86.79	0.62	4.55
n20	2412	Ant1	87.56	0.58	4.35
n20	2437	Ant1	87.57	0.58	4.35
n20	2462	Ant1	87.58	0.58	4.35

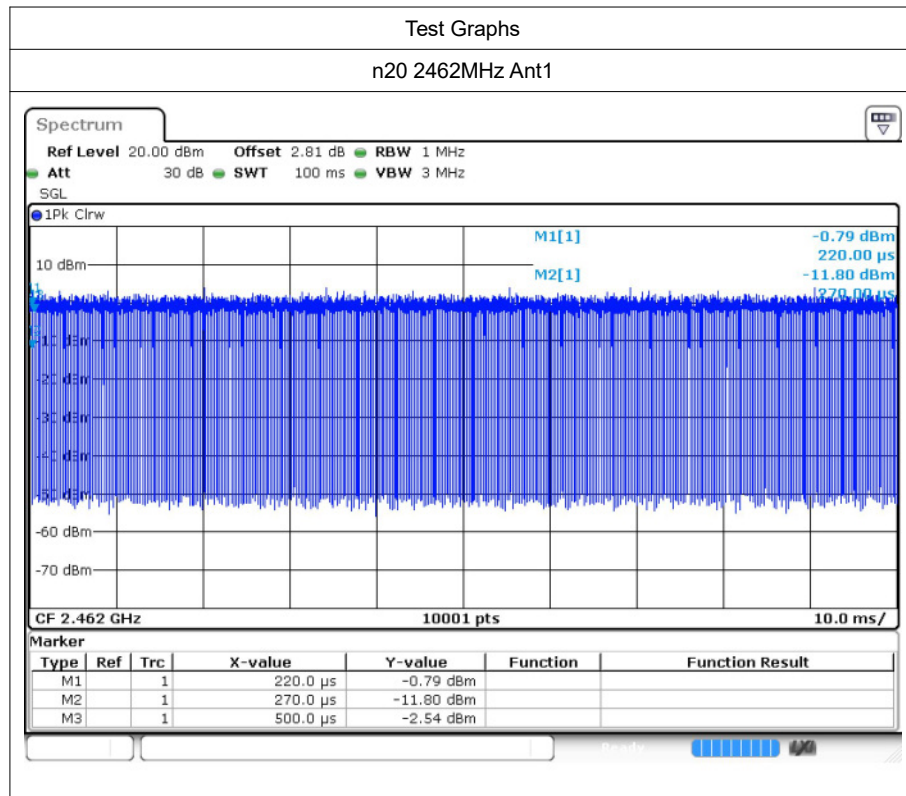
1.2 Test Graphs













2 Maximum Conducted Output Power

2.1 Test Result

Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
b	2412	Ant1	13.7	30	Pass
b	2437	Ant1	13.69	30	Pass
b	2462	Ant1	13.66	30	Pass
g	2412	Ant1	13.56	30	Pass
g	2437	Ant1	13.39	30	Pass
g	2462	Ant1	13.47	30	Pass
n20	2412	Ant1	13.06	30	Pass
n20	2437	Ant1	12.8	30	Pass
n20	2462	Ant1	13.02	30	Pass

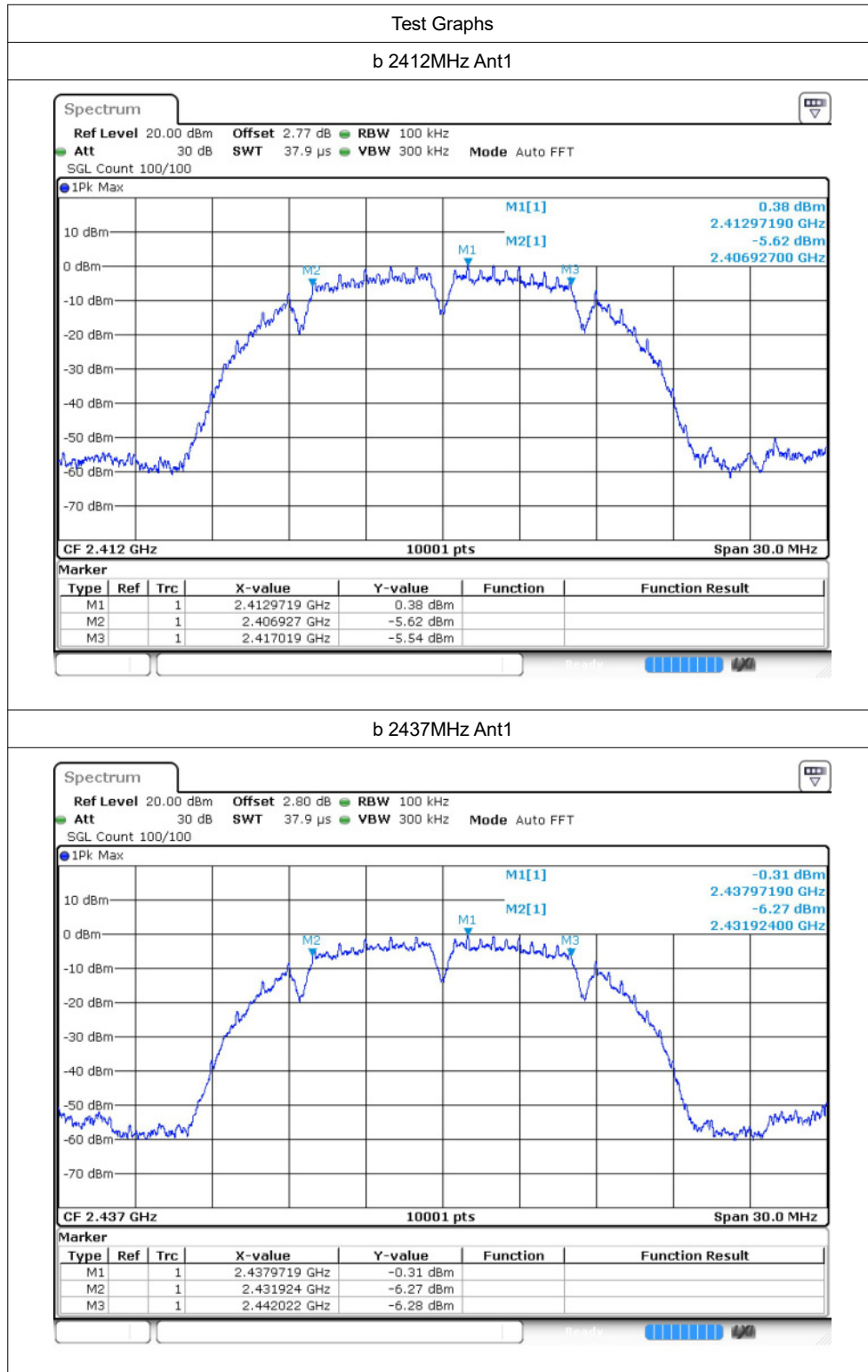


3 -6dB Bandwidth

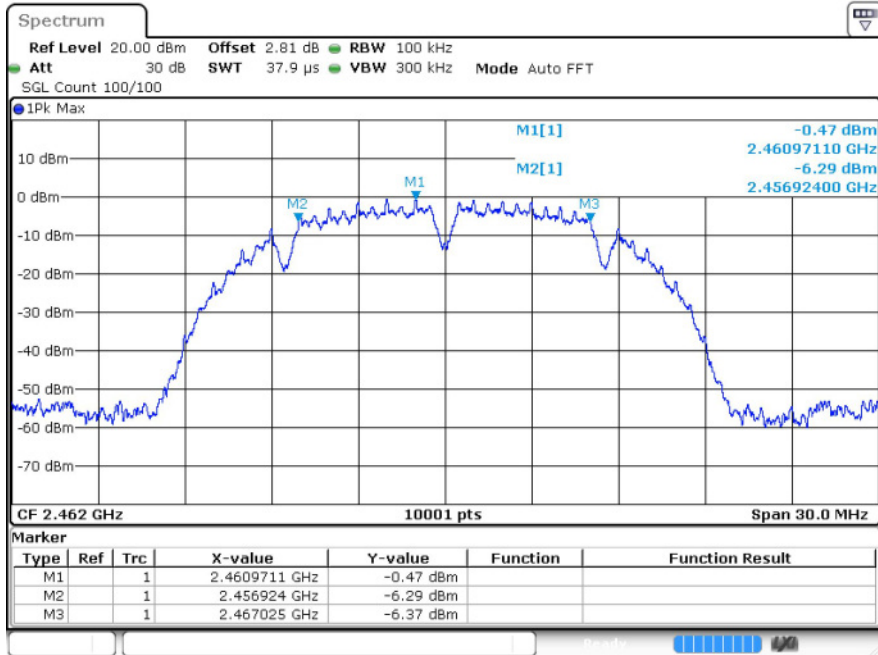
3.1 Test Result

Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
b	2412	Ant1	10.092	0.5	Pass
b	2437	Ant1	10.098	0.5	Pass
b	2462	Ant1	10.101	0.5	Pass
g	2412	Ant1	15.111	0.5	Pass
g	2437	Ant1	15.102	0.5	Pass
g	2462	Ant1	15.114	0.5	Pass
n20	2412	Ant1	15.114	0.5	Pass
n20	2437	Ant1	14.823	0.5	Pass
n20	2462	Ant1	15.108	0.5	Pass

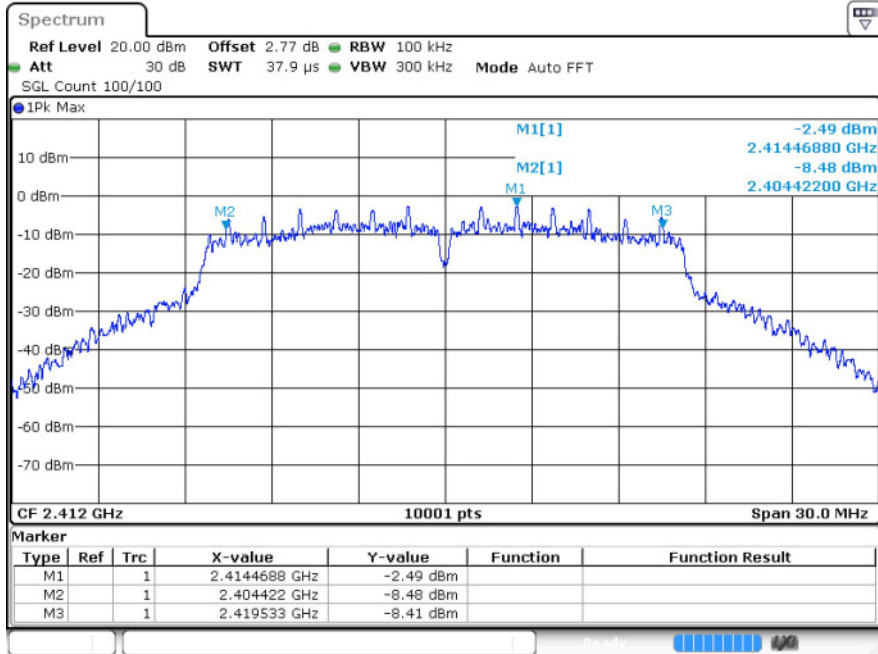
3.2 Test Graphs



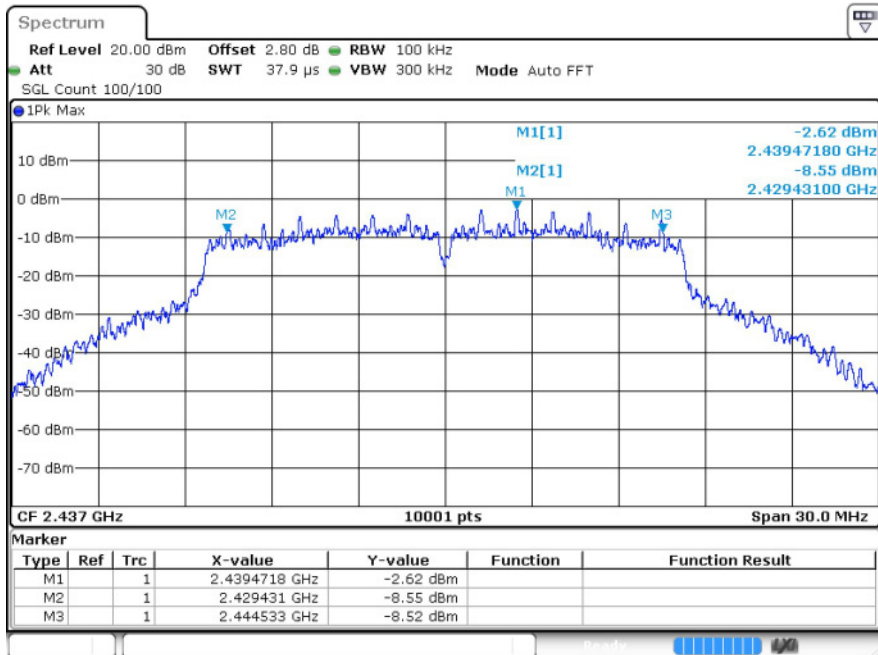
b 2462MHz Ant1



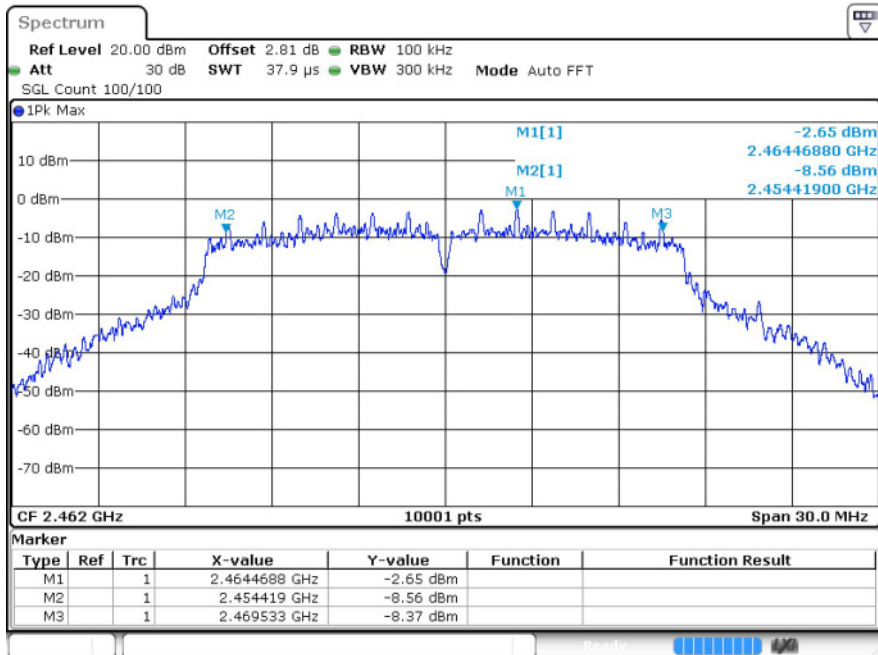
g 2412MHz Ant1

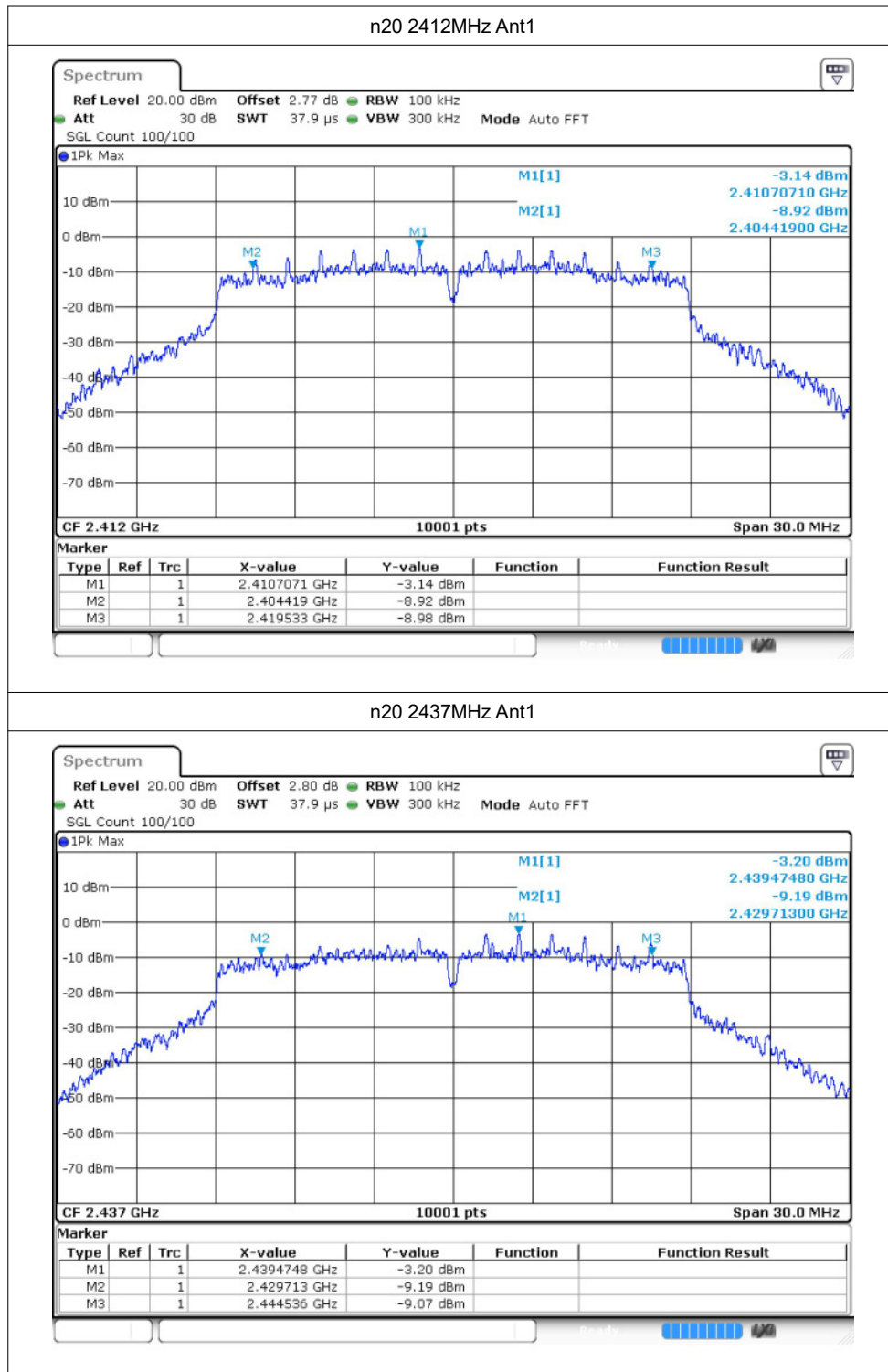


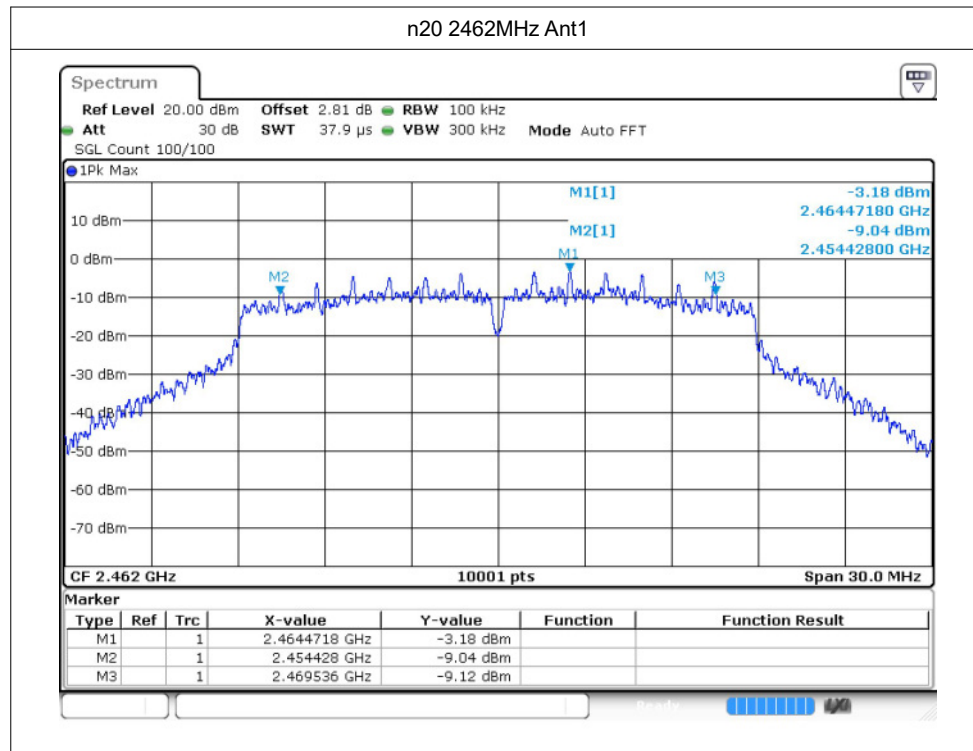
g 2437MHz Ant1



g 2462MHz Ant1





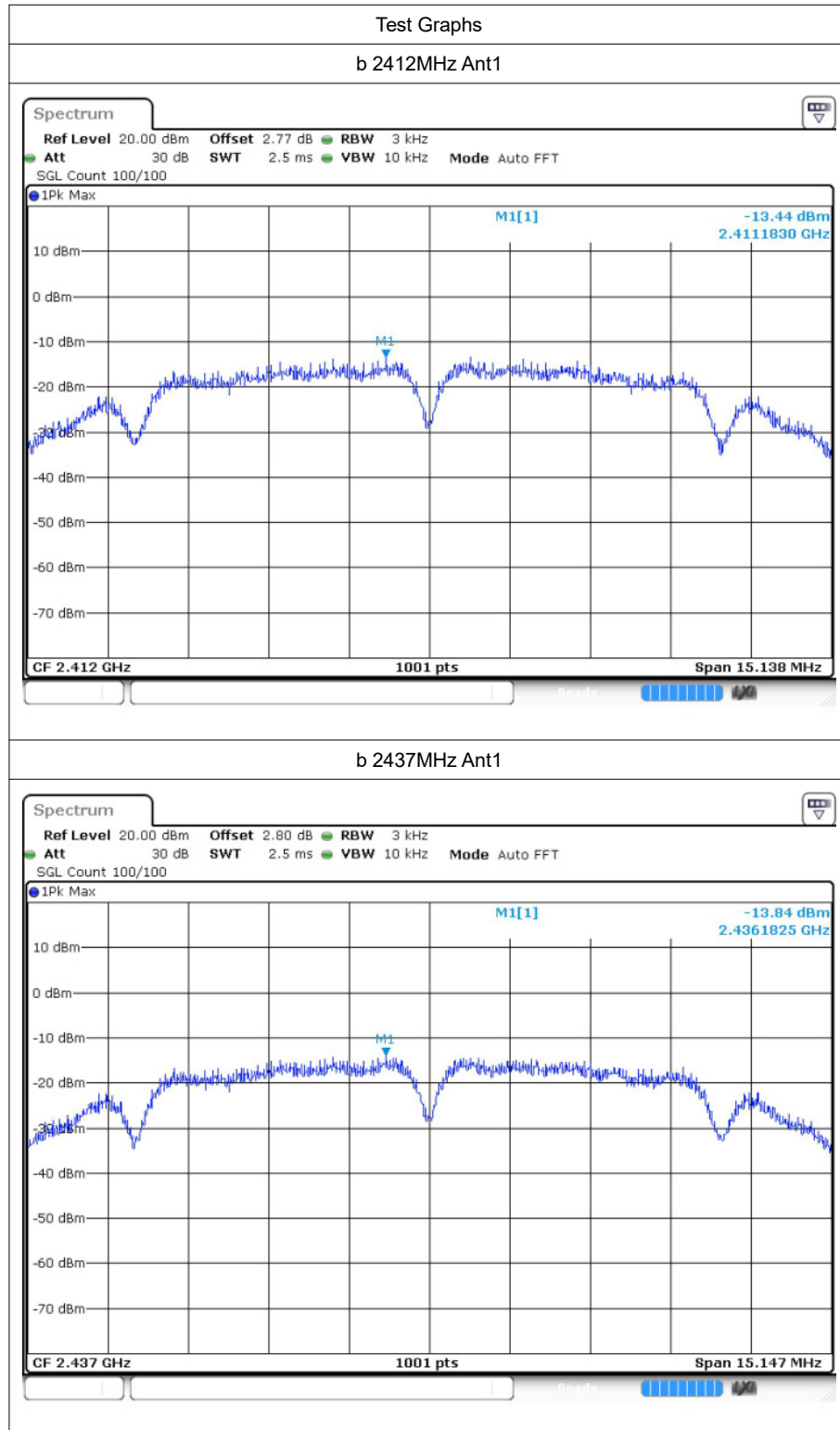


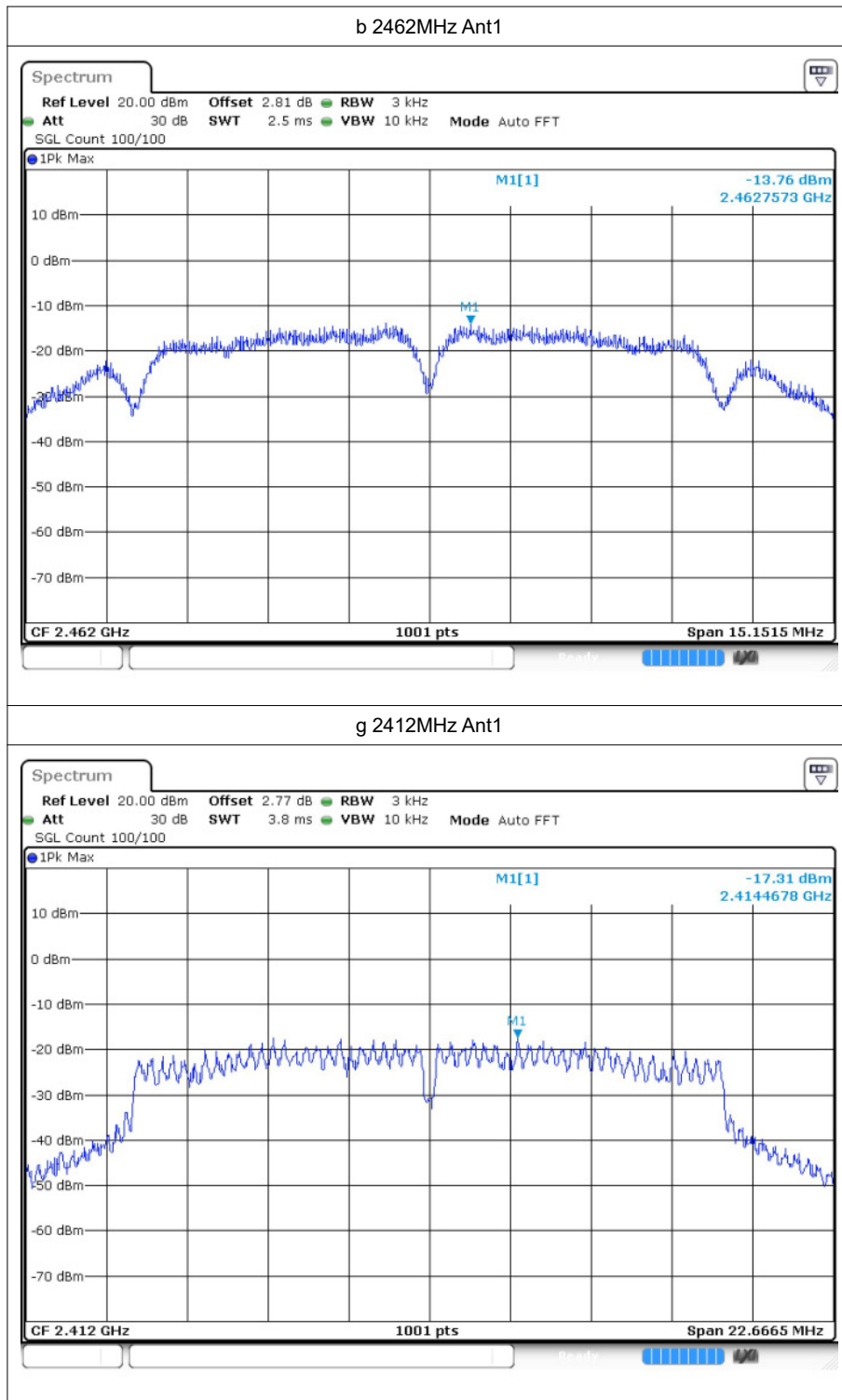
4 Maximum Power Spectral Density Level

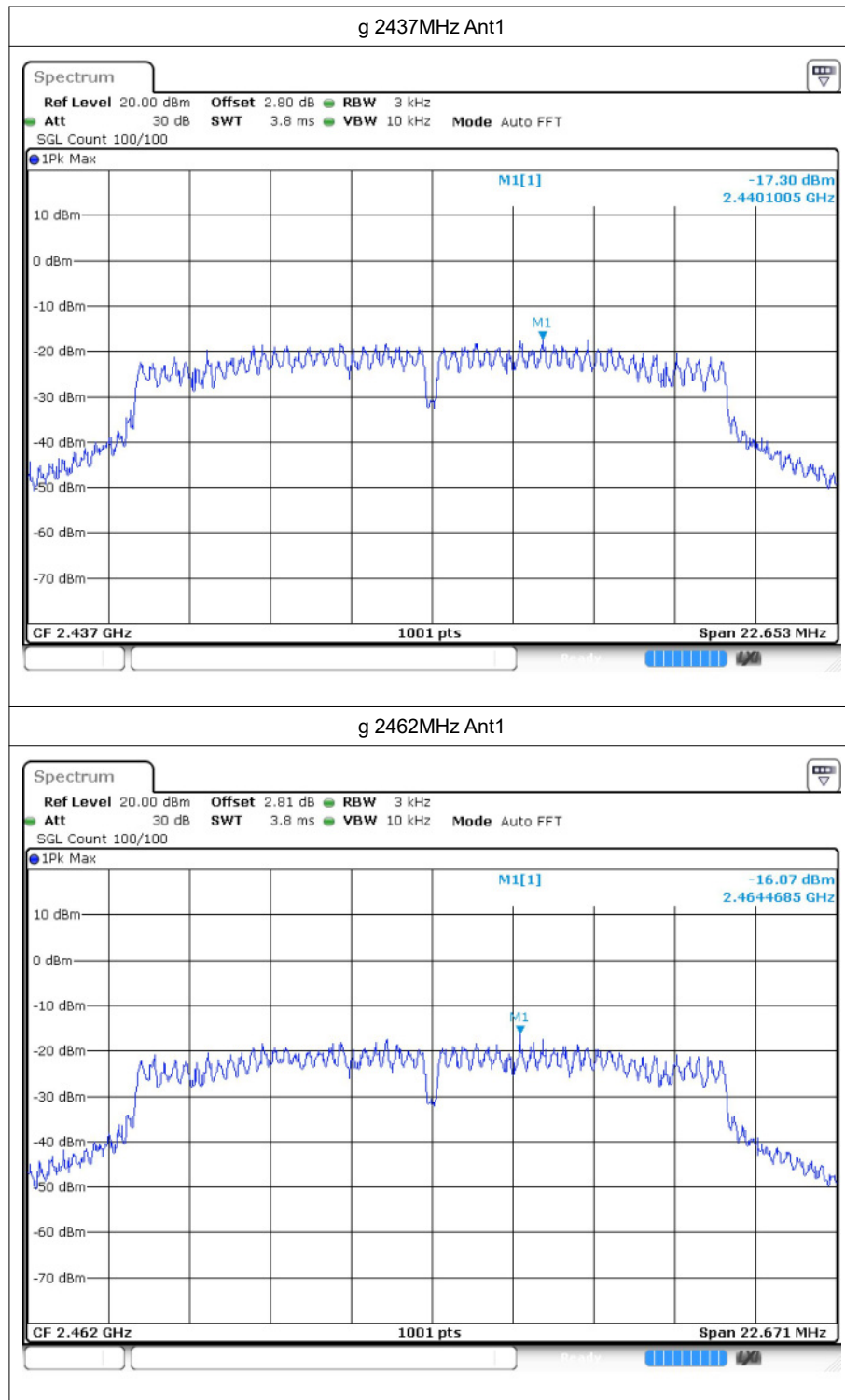
4.1 Test Result

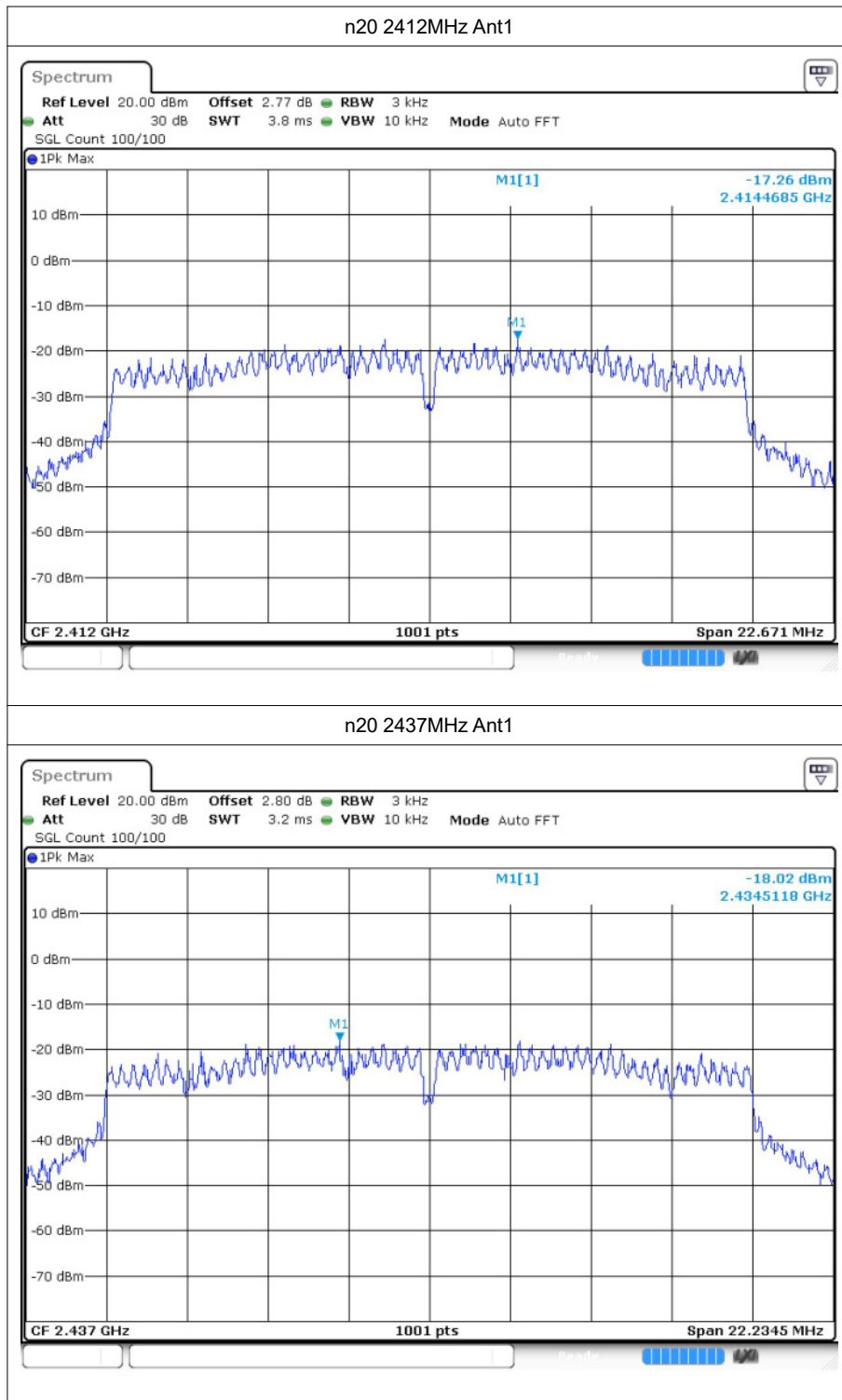
Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3-100kHz)	Limit (dBm/3kHz)	Verdict
b	2412	Ant1	-13.44	≤ 8	Pass
b	2437	Ant1	-13.84	≤ 8	Pass
b	2462	Ant1	-13.76	≤ 8	Pass
g	2412	Ant1	-17.31	≤ 8	Pass
g	2437	Ant1	-17.3	≤ 8	Pass
g	2462	Ant1	-16.07	≤ 8	Pass
n20	2412	Ant1	-17.26	≤ 8	Pass
n20	2437	Ant1	-18.02	≤ 8	Pass
n20	2462	Ant1	-17.51	≤ 8	Pass

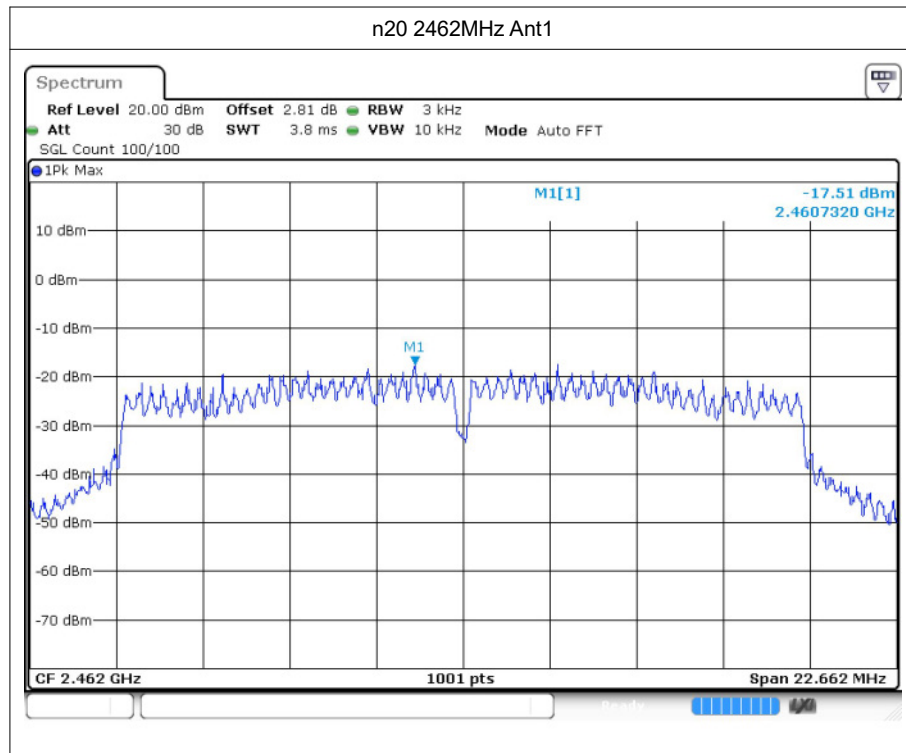
4.2 Test Graphs











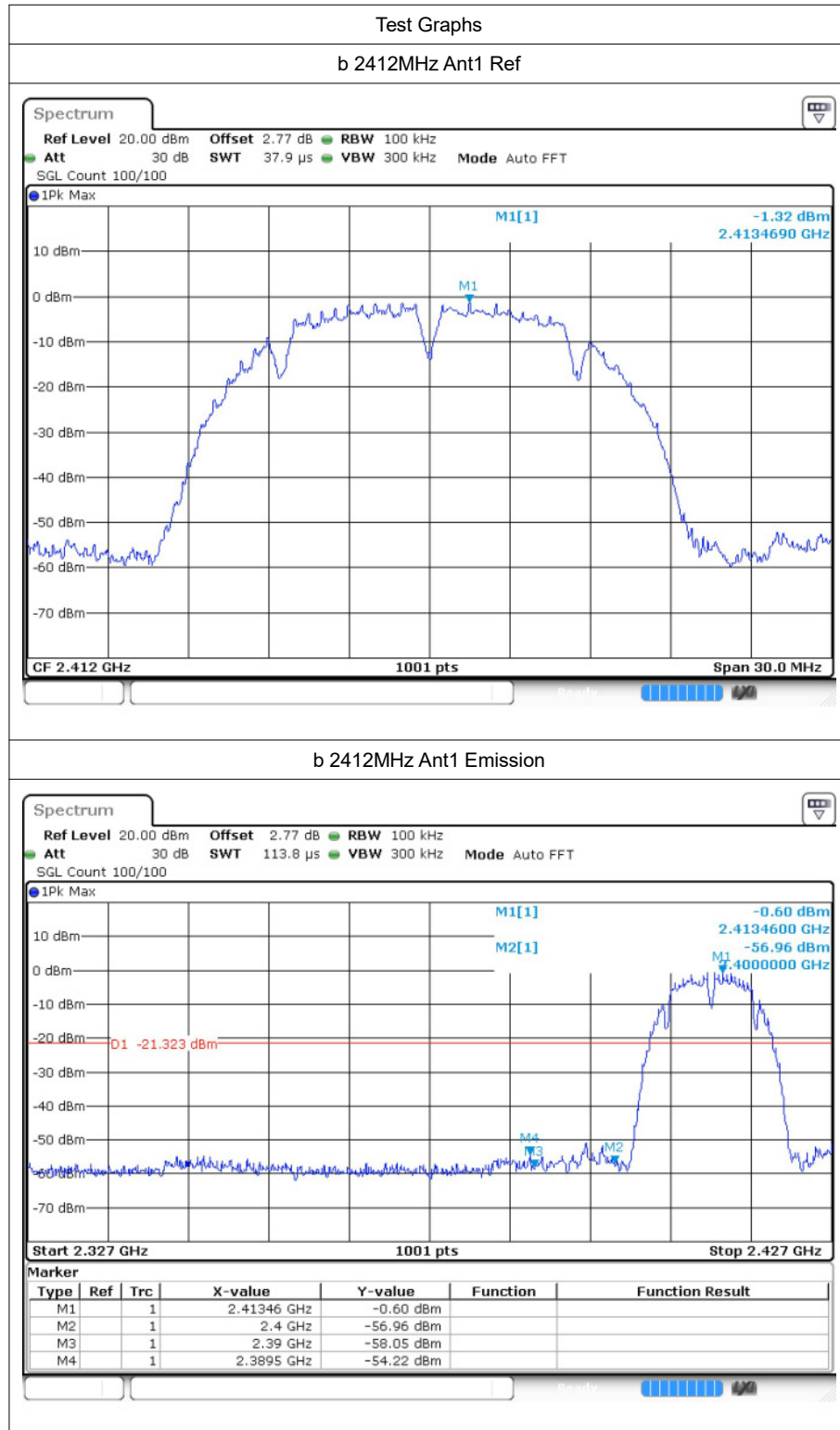


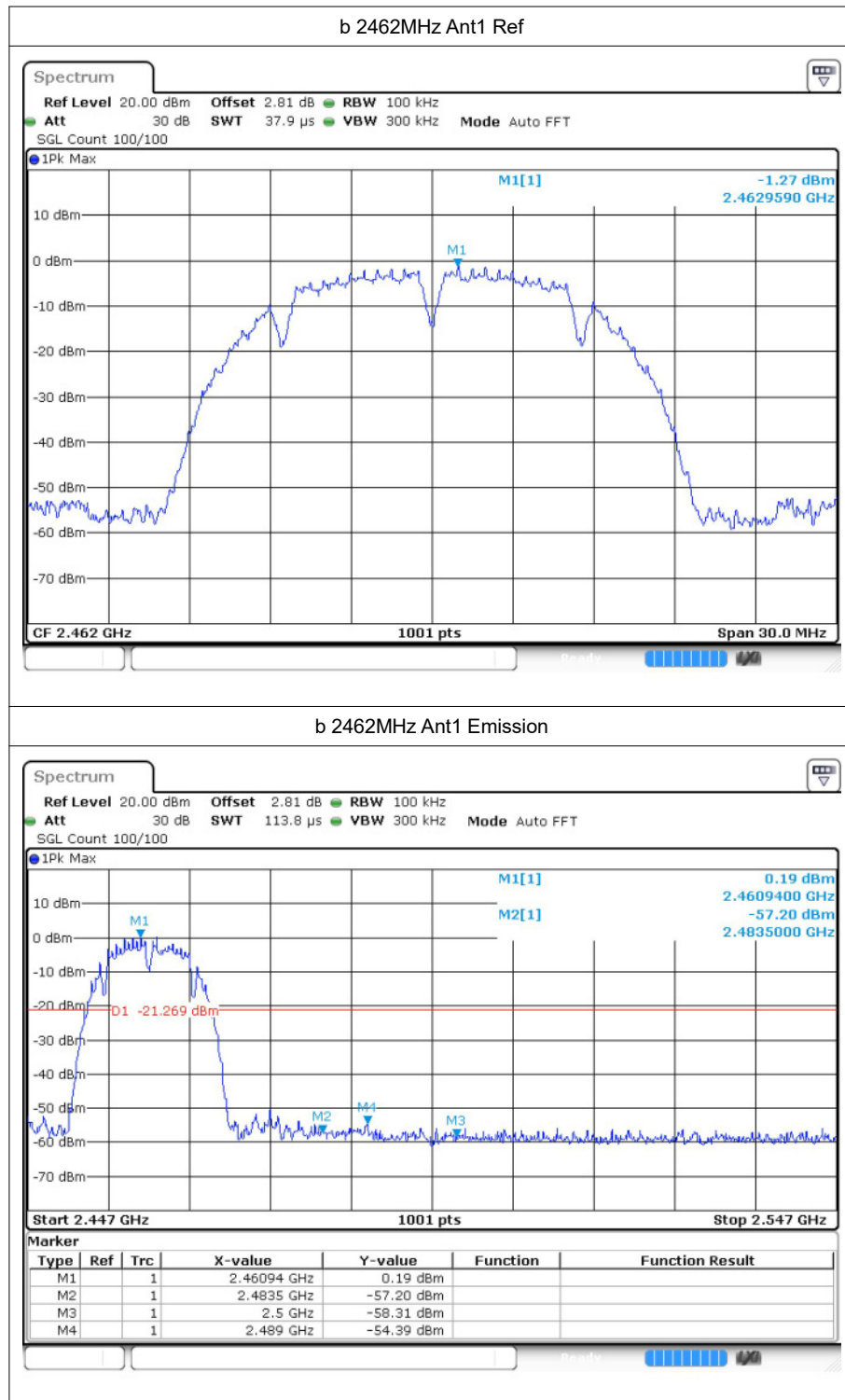
5 Band Edge

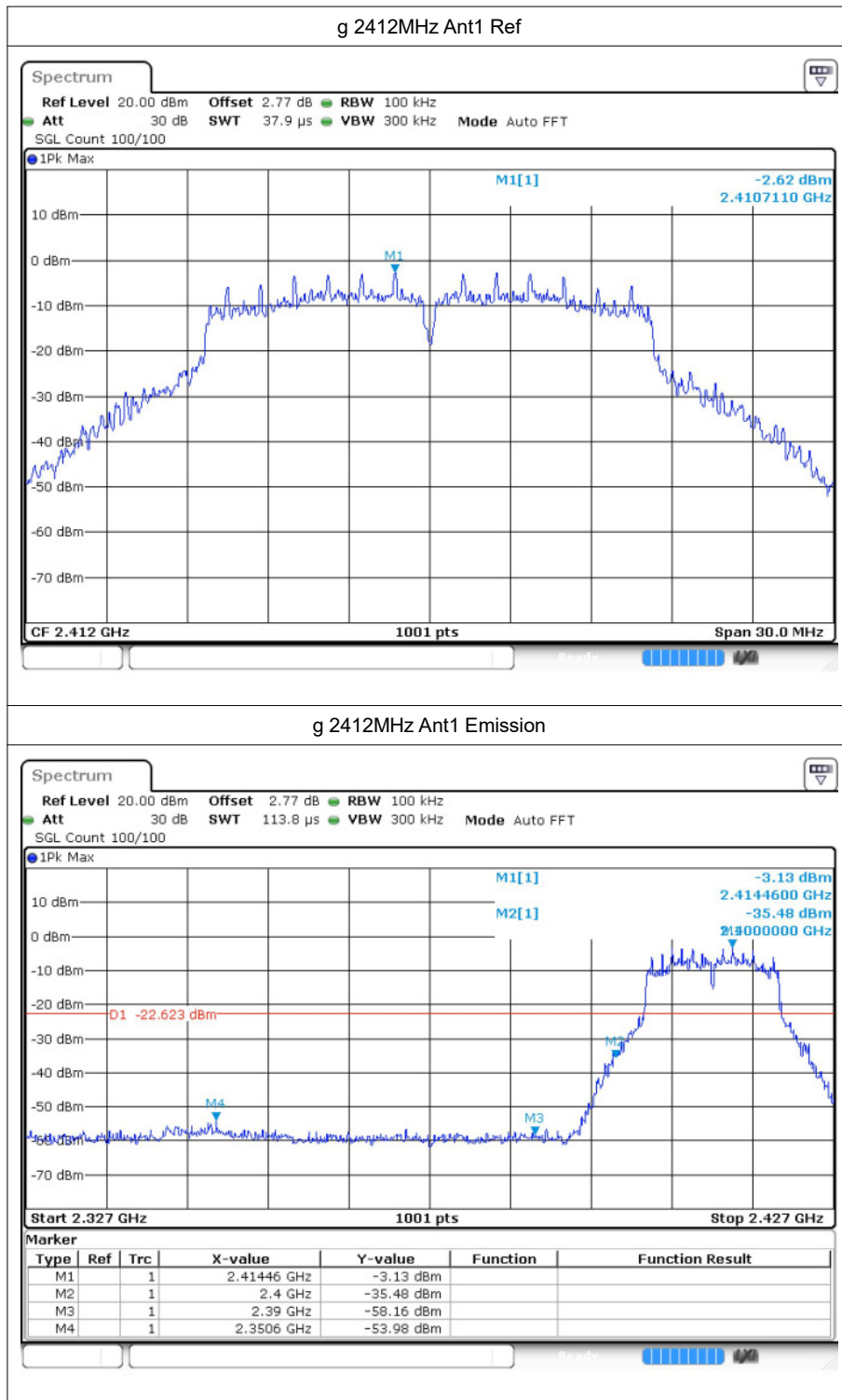
5.1 Test Result

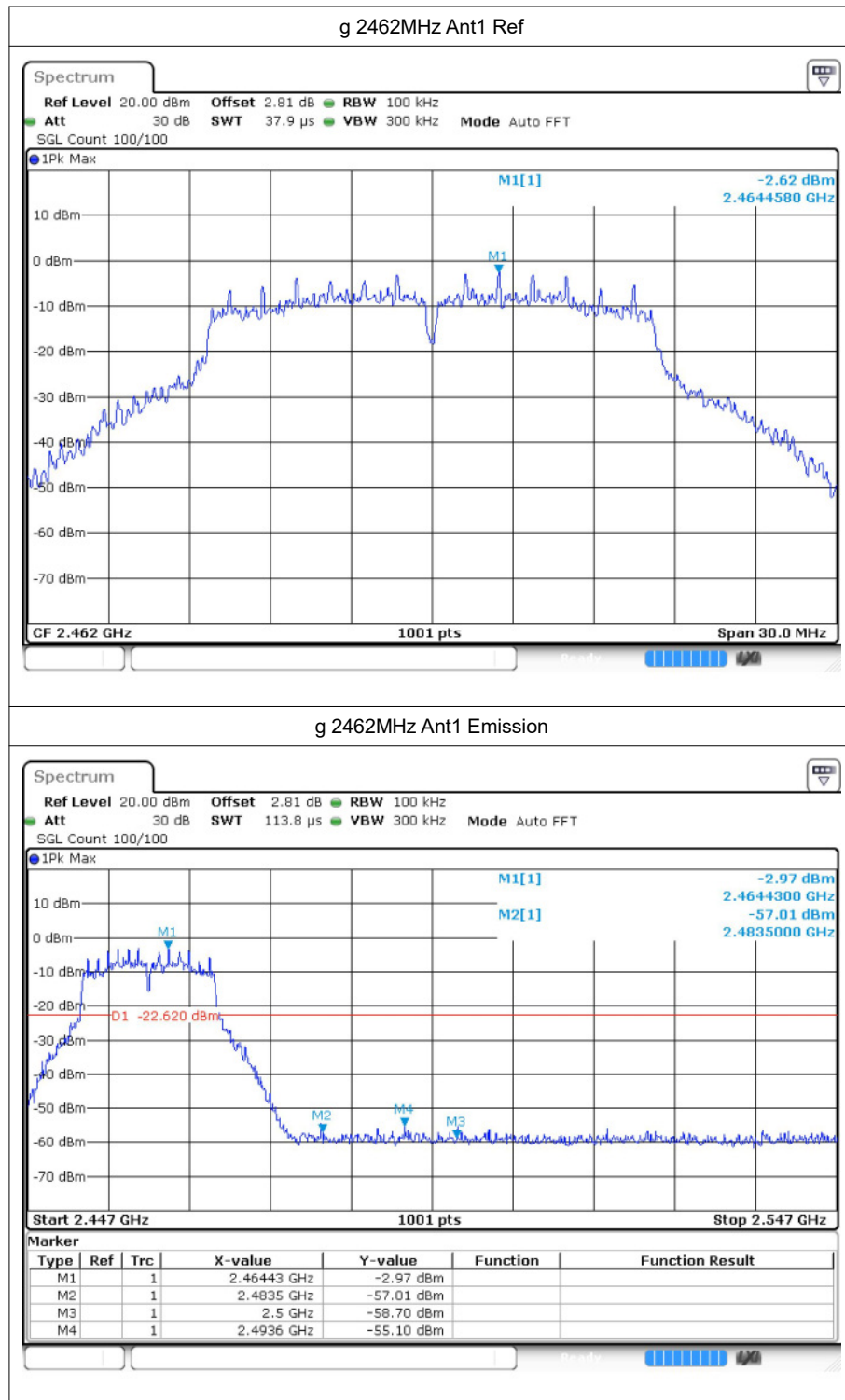
Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
b	2412	Ant1	-52.89	-20	Pass
b	2462	Ant1	-53.12	-20	Pass
g	2412	Ant1	-51.36	-20	Pass
g	2462	Ant1	-52.47	-20	Pass
n20	2412	Ant1	-51.23	-20	Pass
n20	2462	Ant1	-52.56	-20	Pass

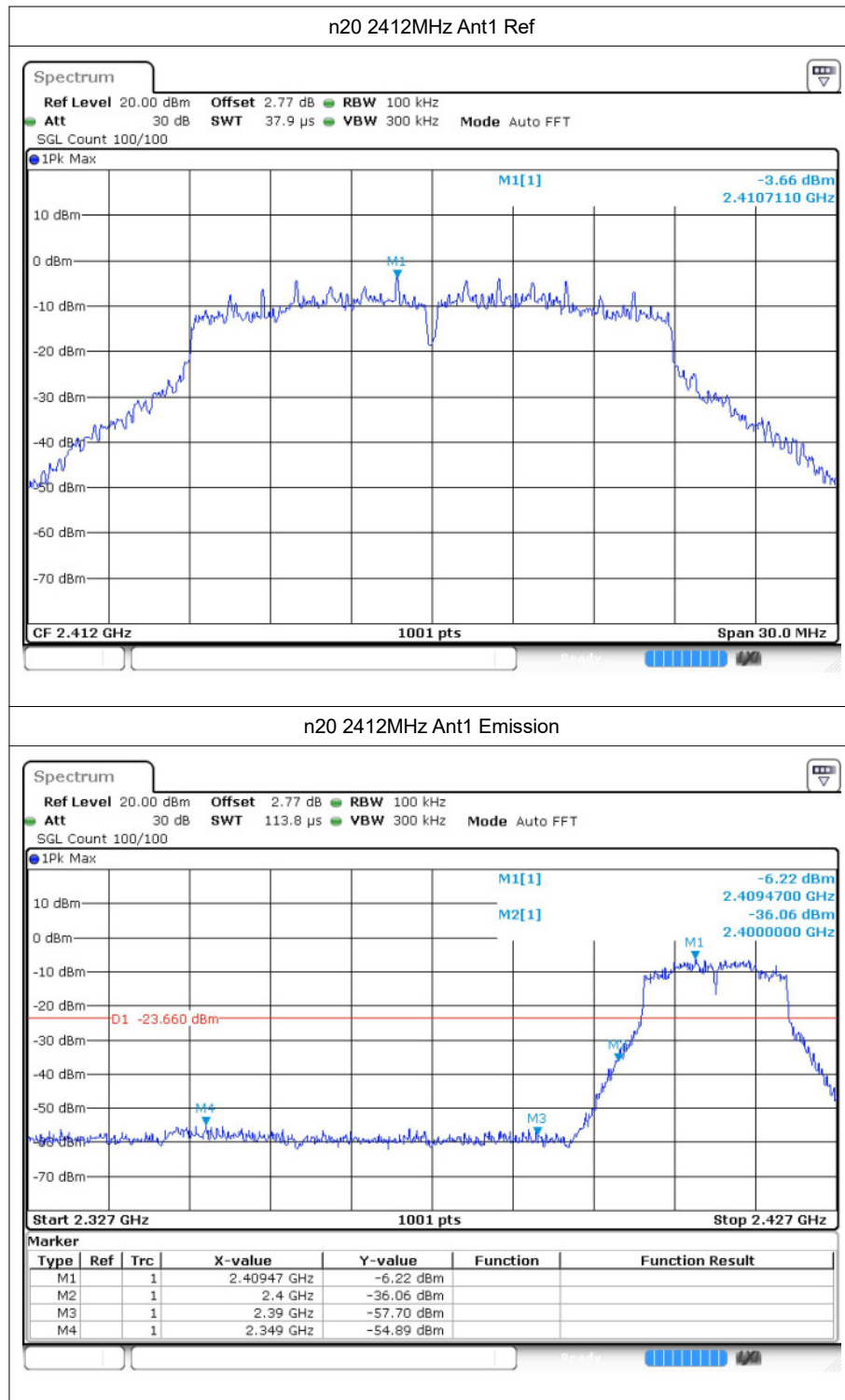
5.2 Test Graphs

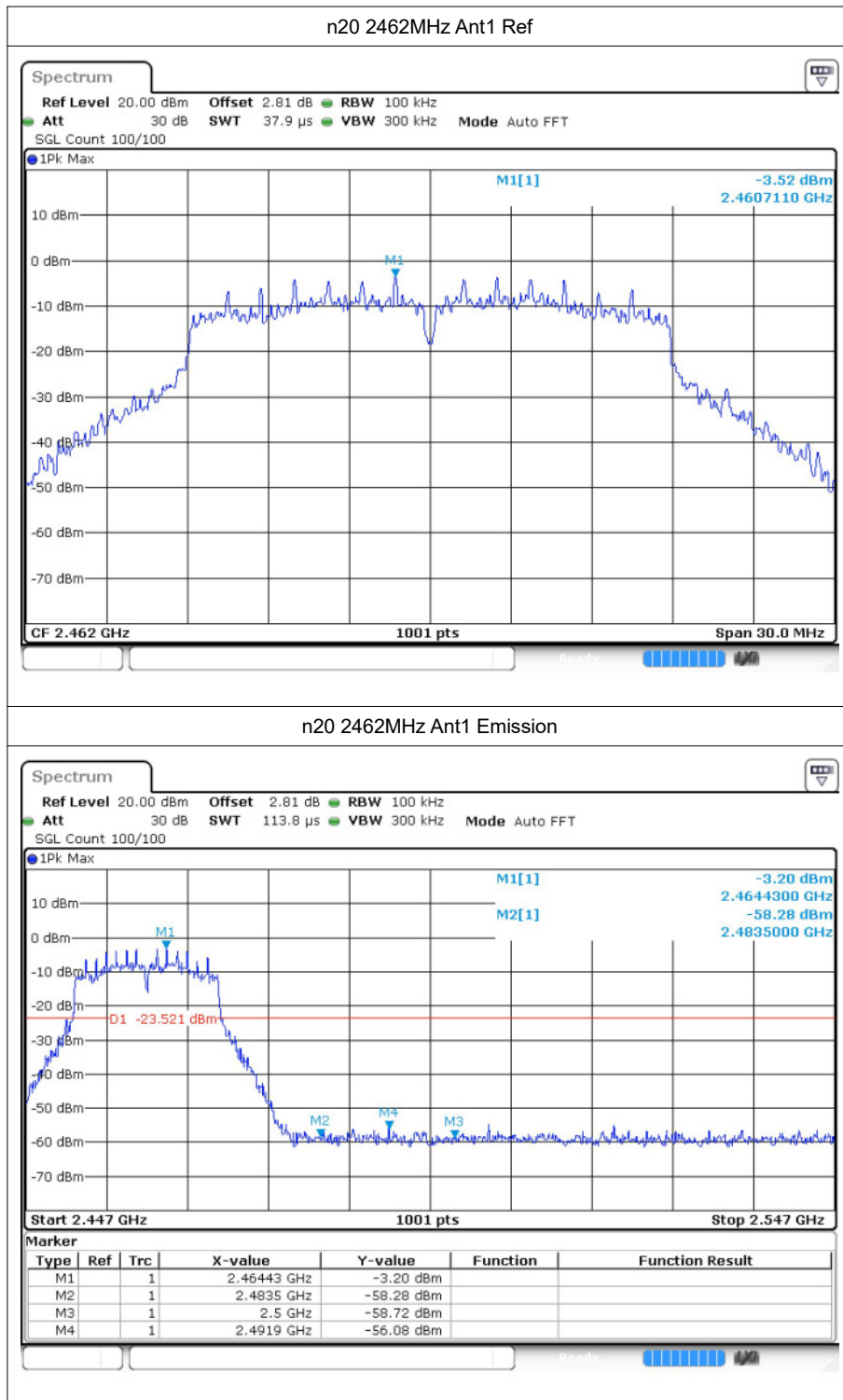














6 Conducted RF Spurious Emission

6.1 Test Result

Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
b	2412	Ant1	-42.77	-20	Pass
b	2437	Ant1	-43.09	-20	Pass
b	2462	Ant1	-42.79	-20	Pass
g	2412	Ant1	-40.55	-20	Pass
g	2437	Ant1	-40.26	-20	Pass
g	2462	Ant1	-39.49	-20	Pass
n20	2412	Ant1	-39.77	-20	Pass
n20	2437	Ant1	-39.61	-20	Pass
n20	2462	Ant1	-40	-20	Pass

6.2 Test Graphs

