



Appendix C

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: Dash camera

Trade Mark: N/A

Test Model: M820

Environmental Conditions

Temperature:	25.4° C
Relative Humidity:	52.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Emiya lin
Supervised by:	Simba Haung



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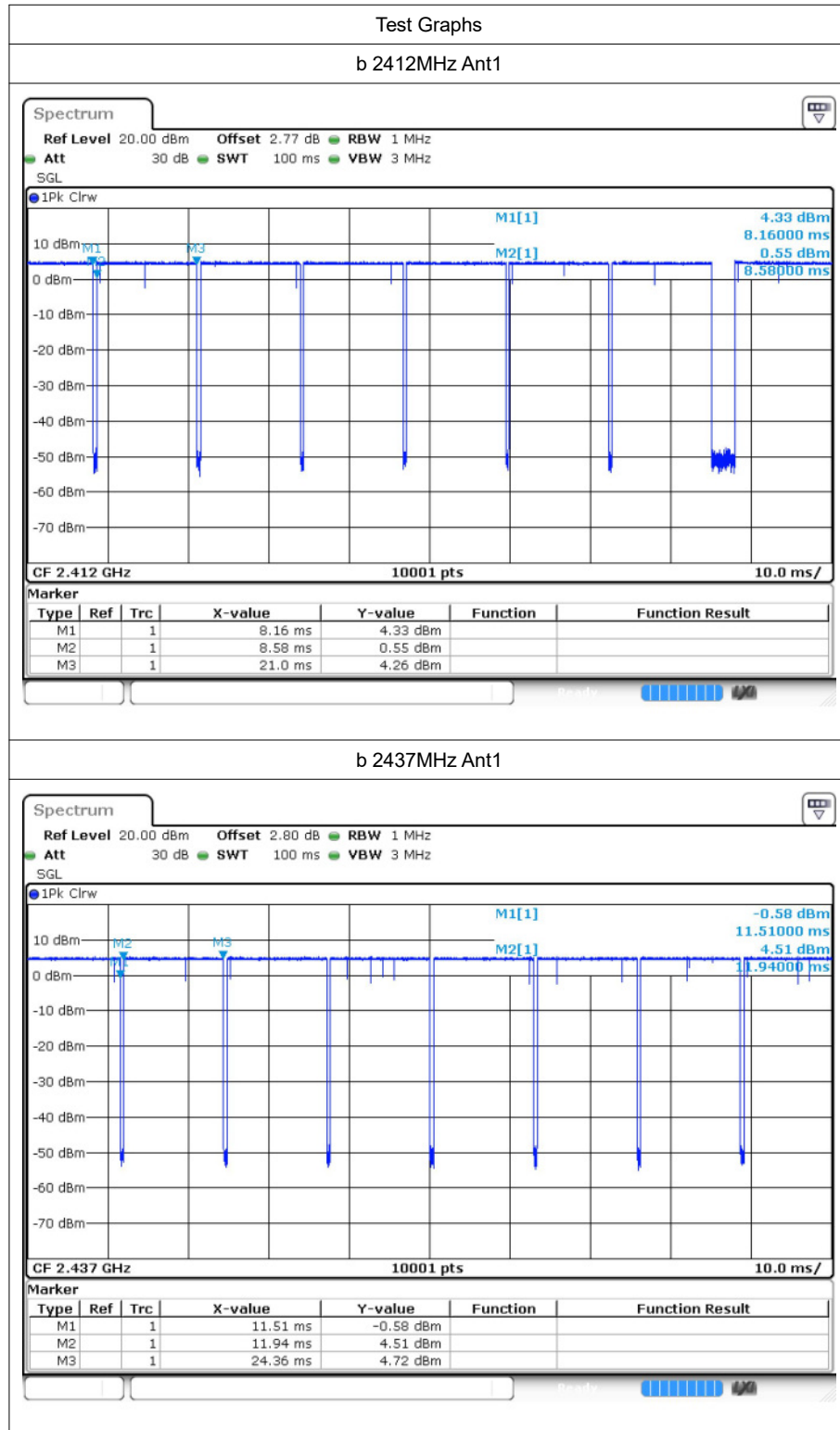


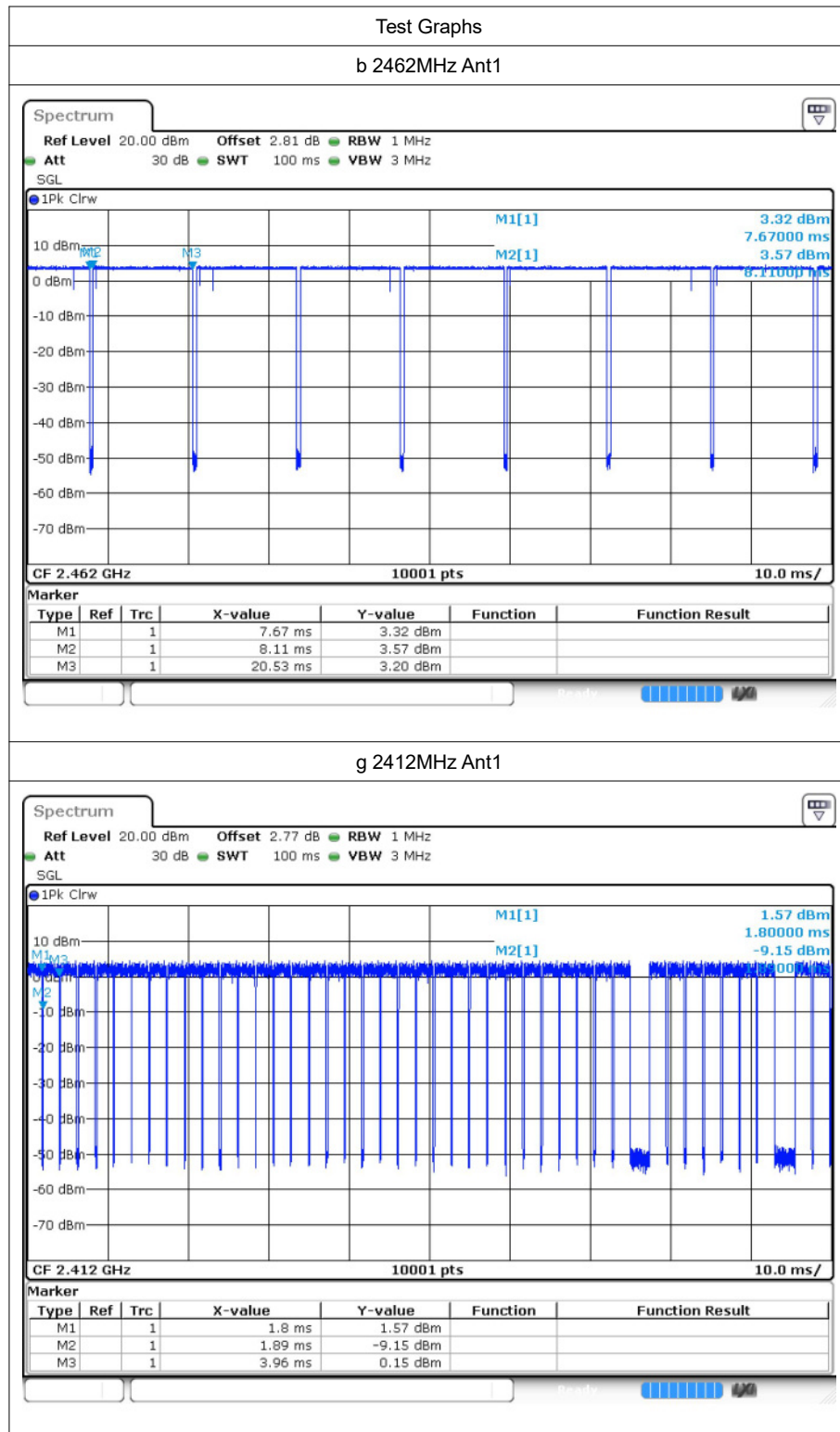
1 Duty Cycle

1.1 Test Result

Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor	1/T (kHz)
b	2412	Ant1	94.76	0.23	0.08
b	2437	Ant1	97.02	0.13	0.08
b	2462	Ant1	96.48	0.16	0.08
g	2412	Ant1	89.03	0.5	0.48
g	2437	Ant1	91.06	0.41	0.49
g	2462	Ant1	90.98	0.41	0.48
n20	2412	Ant1	88.36	0.54	0.52
n20	2437	Ant1	90.71	0.42	0.52
n20	2462	Ant1	90.21	0.45	0.52
n40	2422	Ant1	82.71	0.82	1.06
n40	2437	Ant1	83.21	0.8	1.08
n40	2452	Ant1	82.89	0.81	1.06

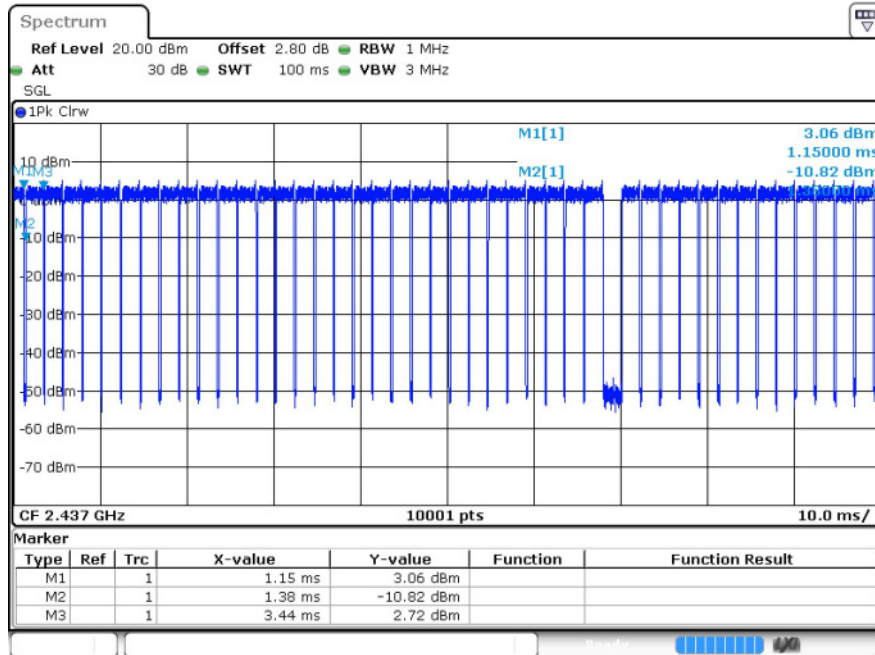
1.2 Test Graphs



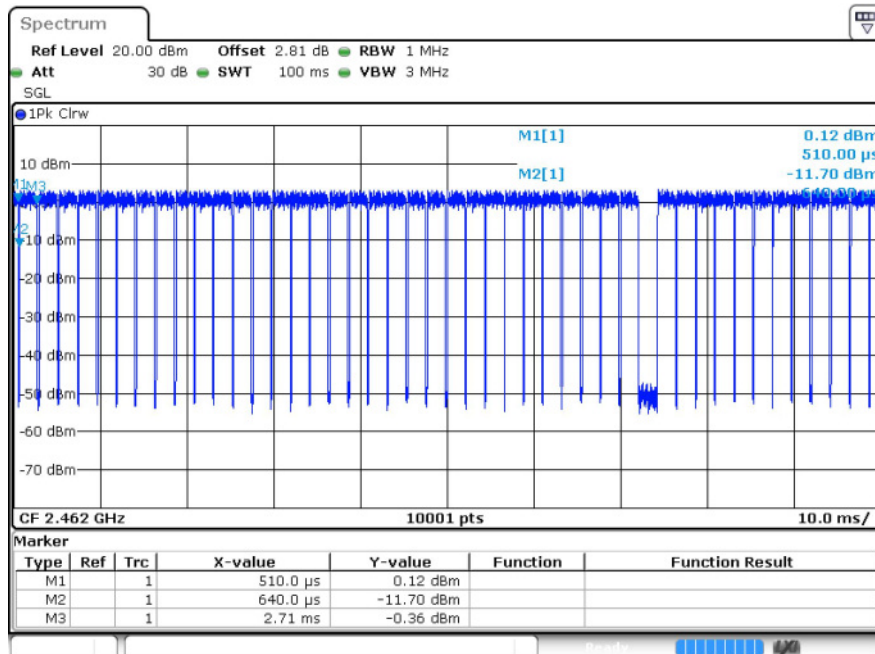


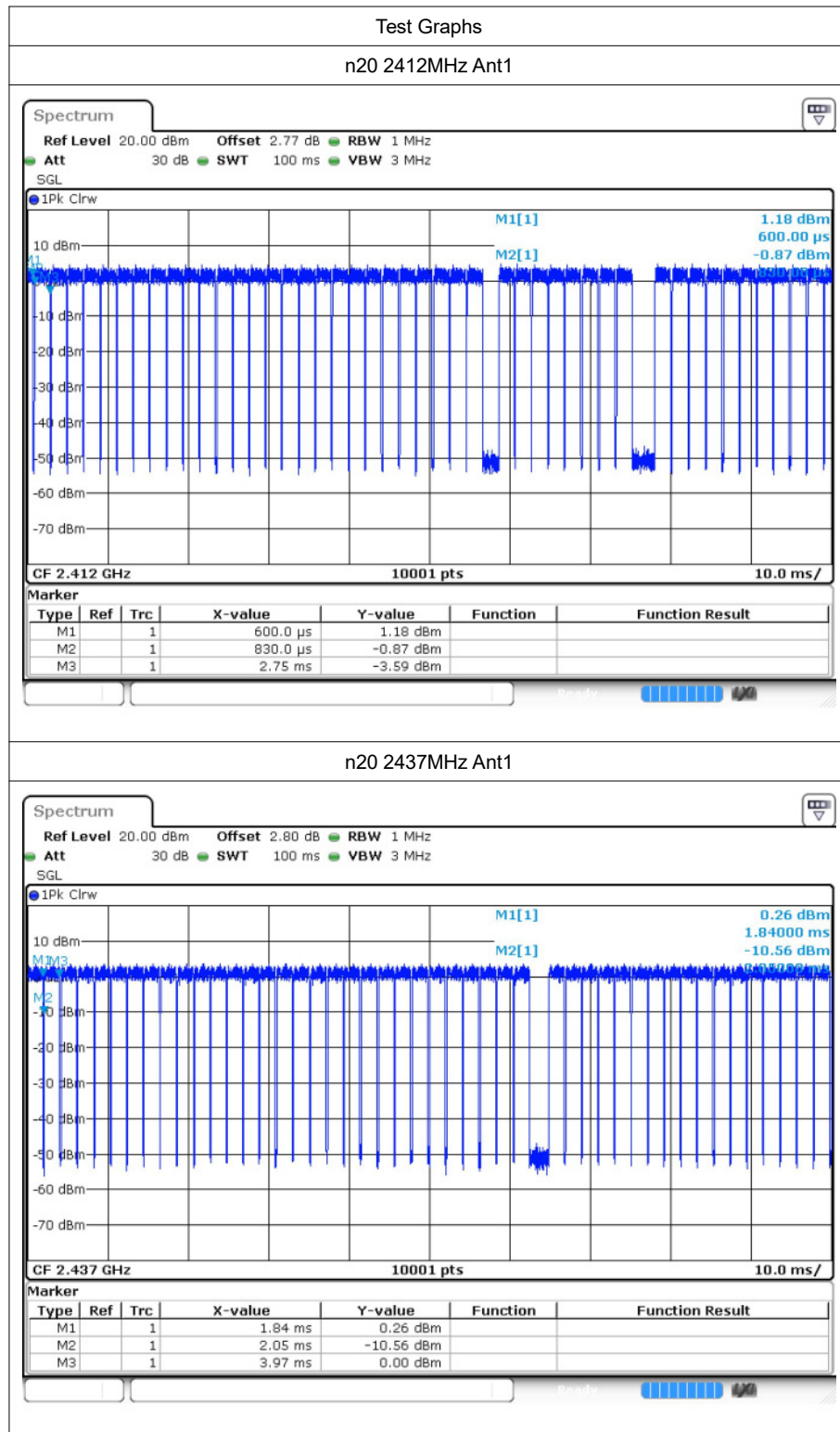
Test Graphs

g 2437MHz Ant1



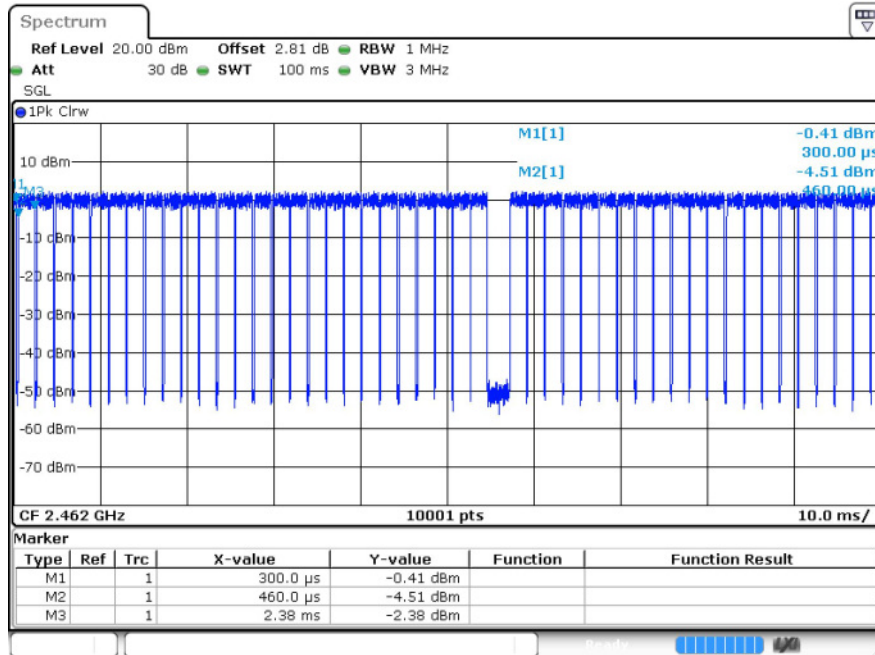
g 2462MHz Ant1



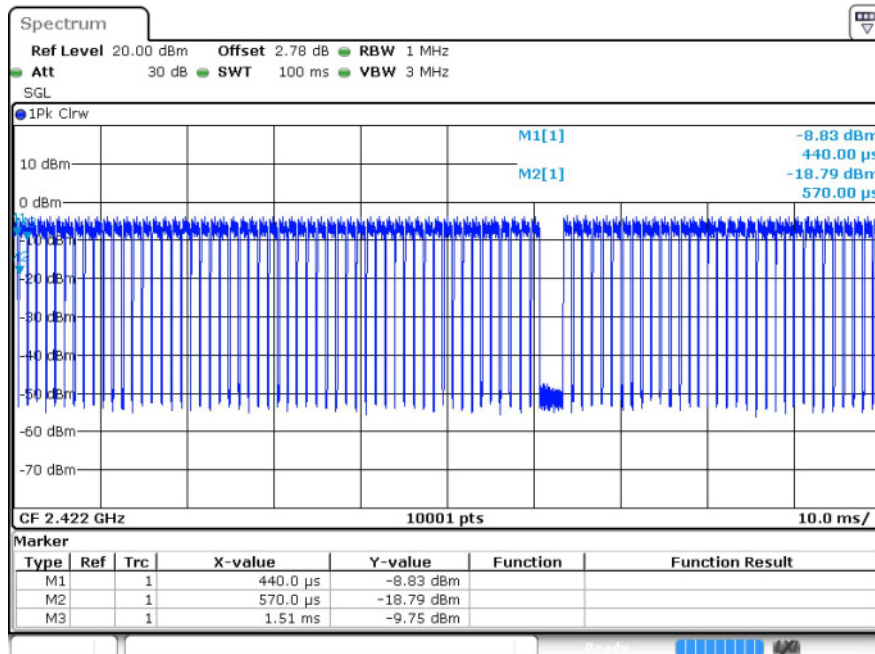


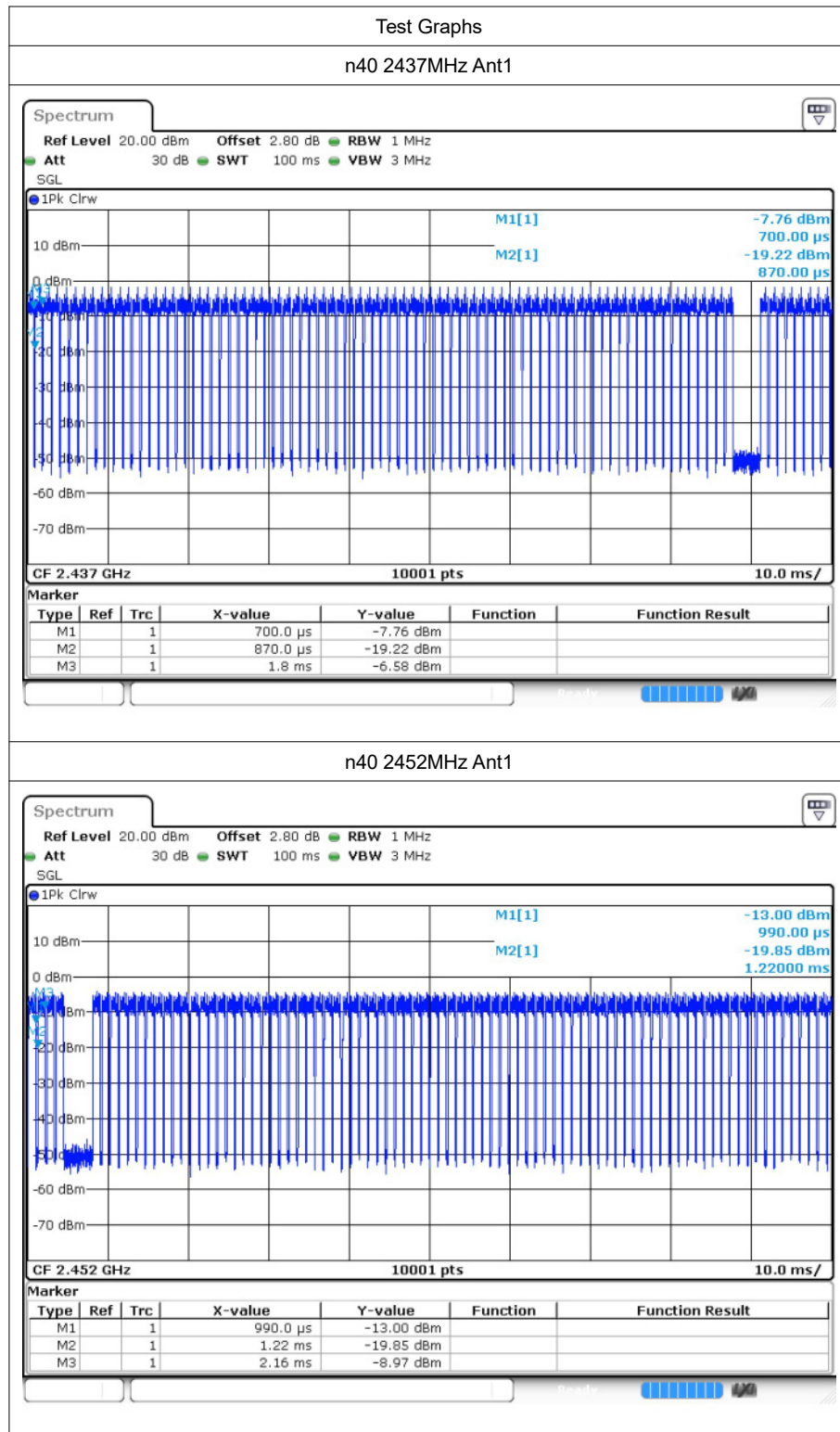
Test Graphs

n20 2462MHz Ant1



n40 2422MHz Ant1





2 Maximum Conducted Output Power

2.1 Test Result

Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
b	2412	Ant1	14.18	30	Pass
b	2437	Ant1	14.41	30	Pass
b	2462	Ant1	13.29	30	Pass
g	2412	Ant1	13.79	30	Pass
g	2437	Ant1	13.07	30	Pass
g	2462	Ant1	12.37	30	Pass
n20	2412	Ant1	12.92	30	Pass
n20	2437	Ant1	12.63	30	Pass
n20	2462	Ant1	11.68	30	Pass
n40	2422	Ant1	13.18	30	Pass
n40	2437	Ant1	12.53	30	Pass
n40	2452	Ant1	11.82	30	Pass

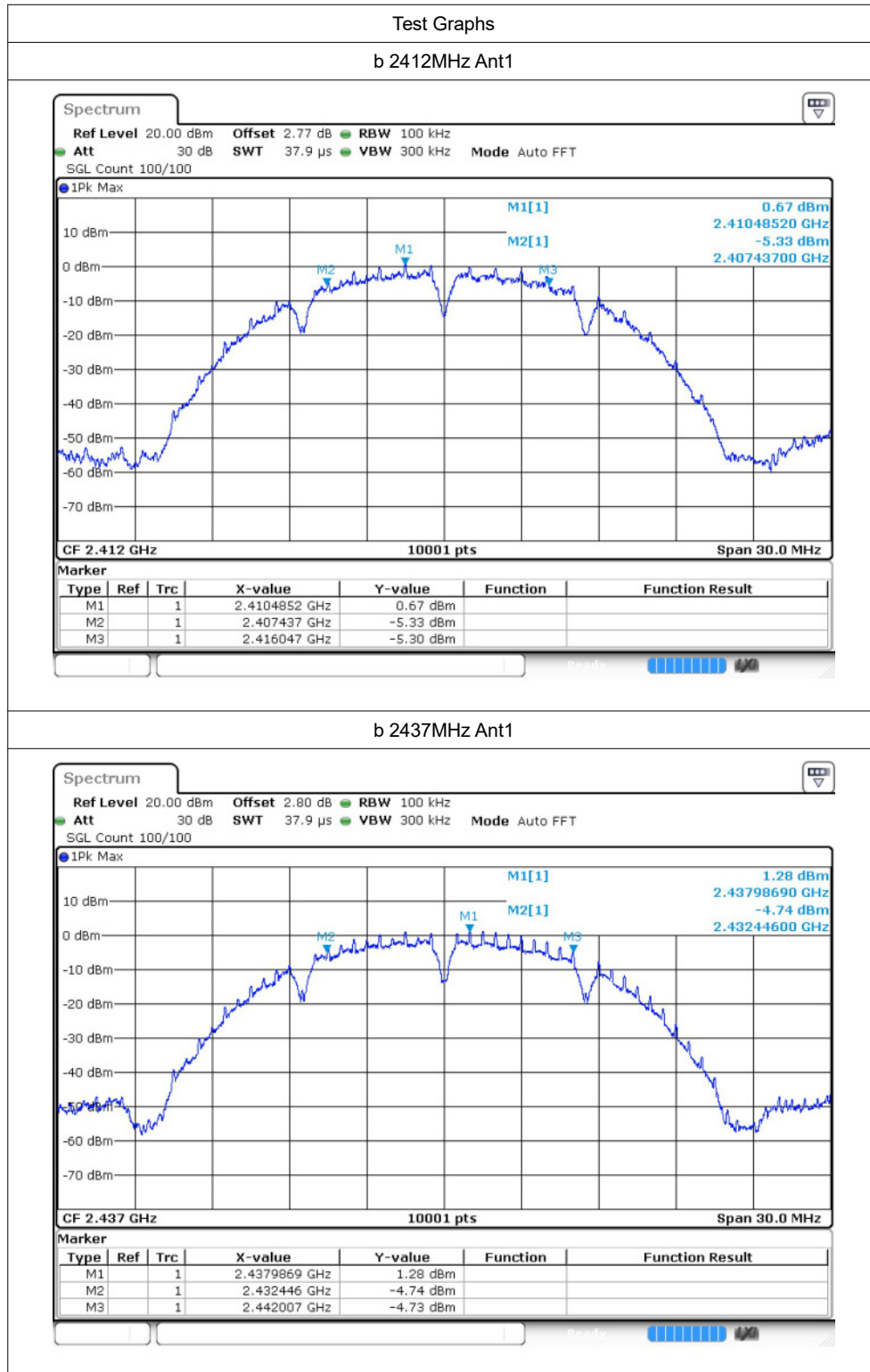


3 -6dB Bandwidth

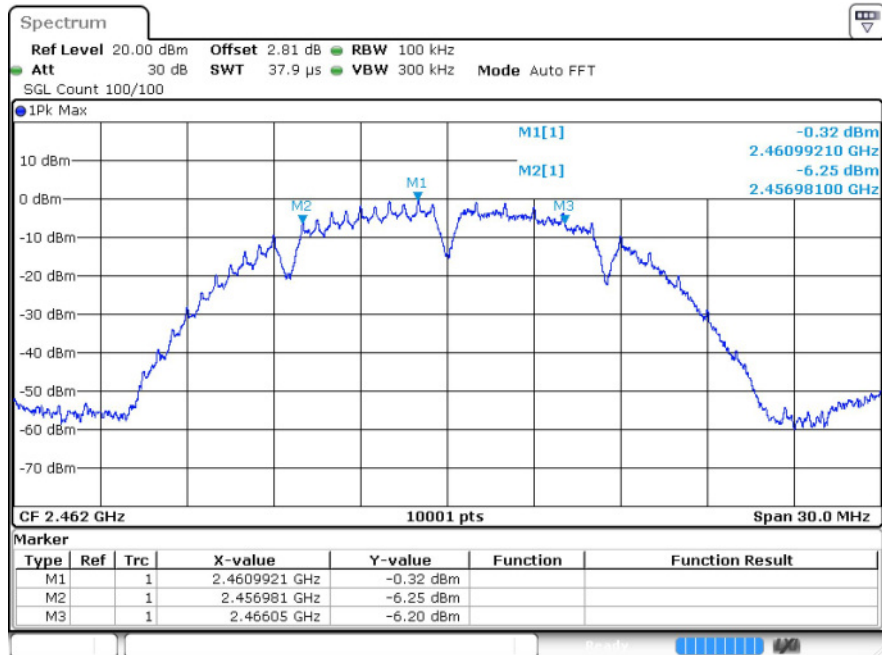
3.1 Test Result

Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
b	2412	Ant1	8.61	0.5	Pass
b	2437	Ant1	9.561	0.5	Pass
b	2462	Ant1	9.069	0.5	Pass
g	2412	Ant1	15.666	0.5	Pass
g	2437	Ant1	15.285	0.5	Pass
g	2462	Ant1	13.551	0.5	Pass
n20	2412	Ant1	12.837	0.5	Pass
n20	2437	Ant1	13.095	0.5	Pass
n20	2462	Ant1	14.415	0.5	Pass
n40	2422	Ant1	22.578	0.5	Pass
n40	2437	Ant1	25.926	0.5	Pass
n40	2452	Ant1	24.21	0.5	Pass

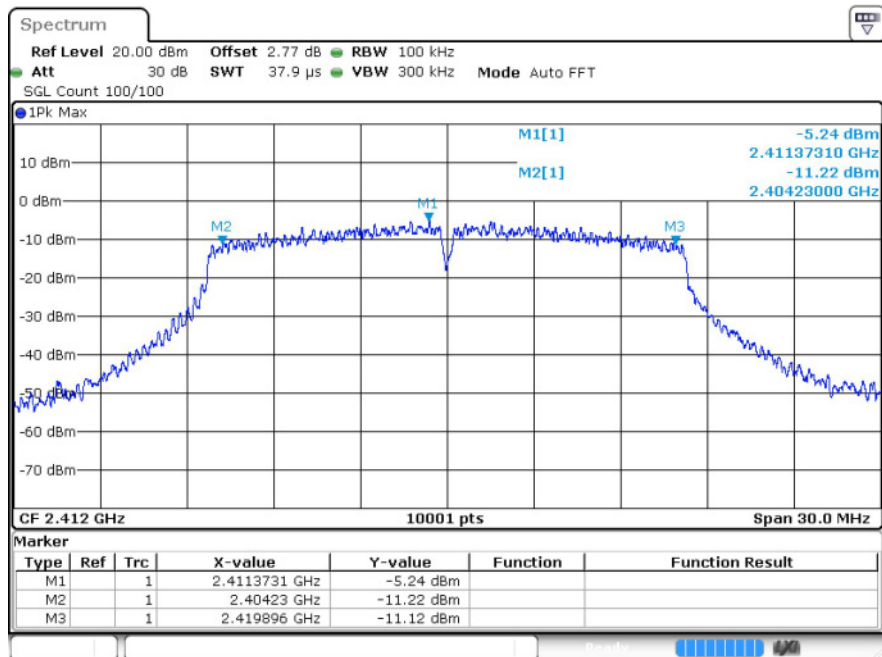
3.2 Test Graphs



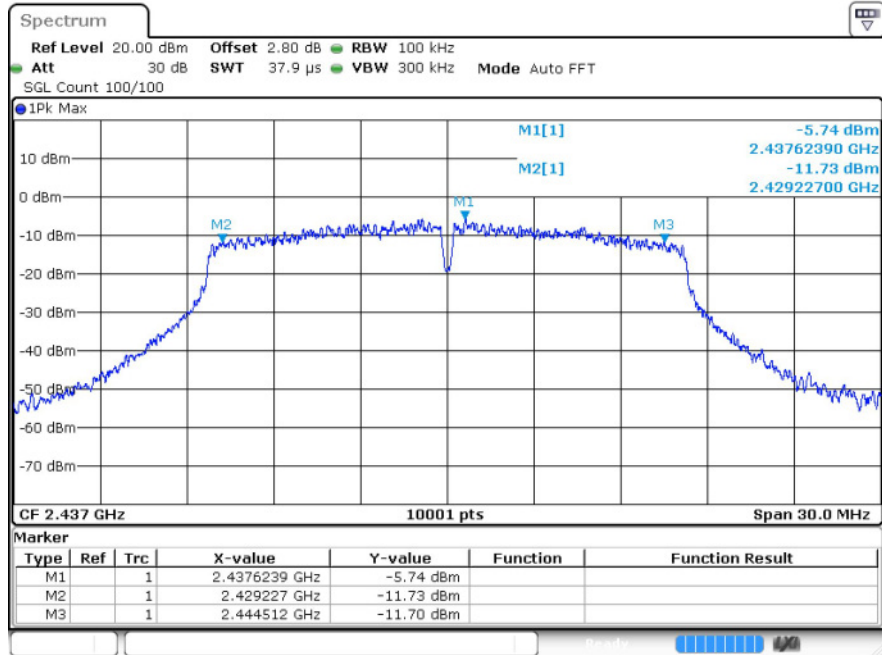
b 2462MHz Ant1



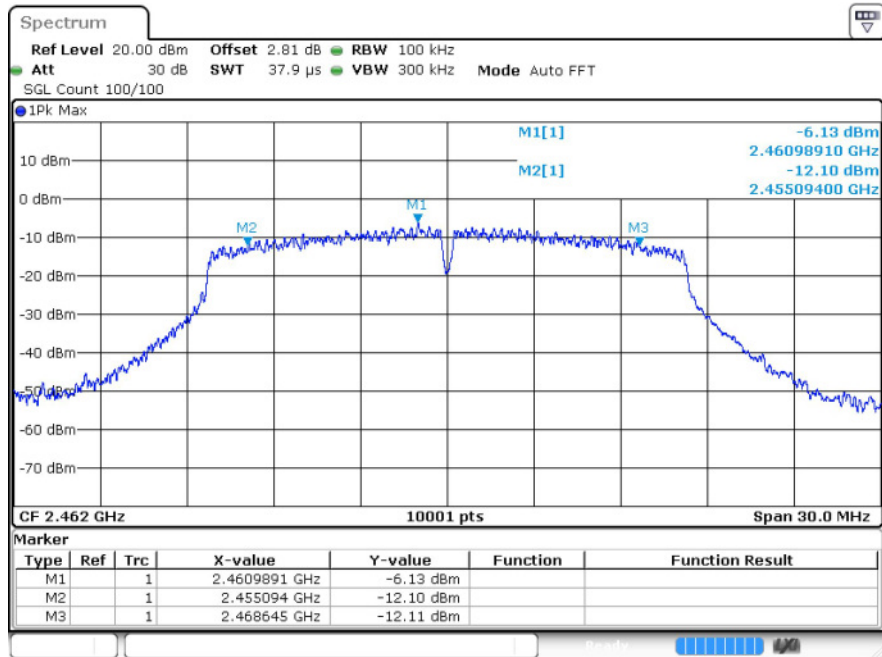
g 2412MHz Ant1



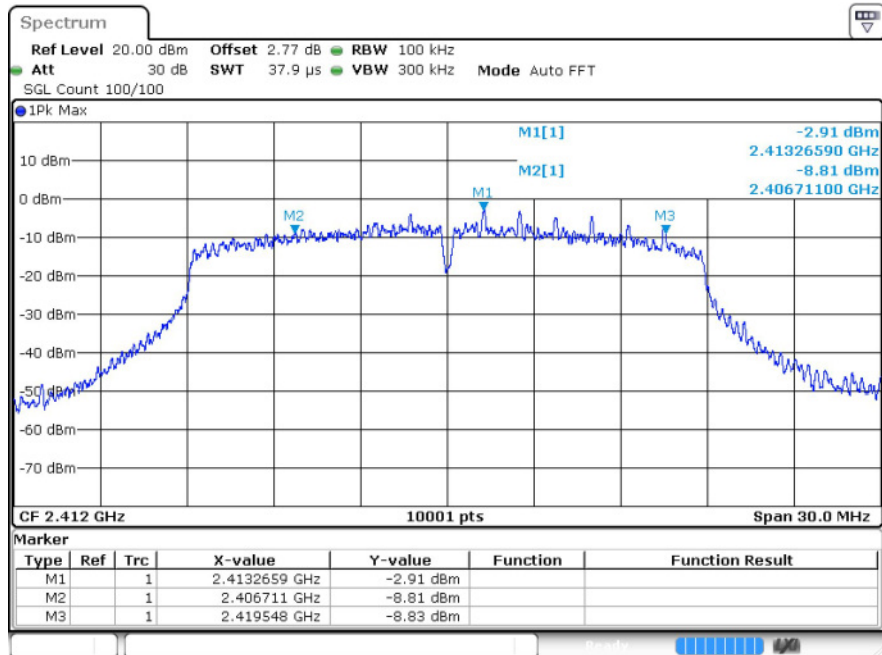
g 2437MHz Ant1



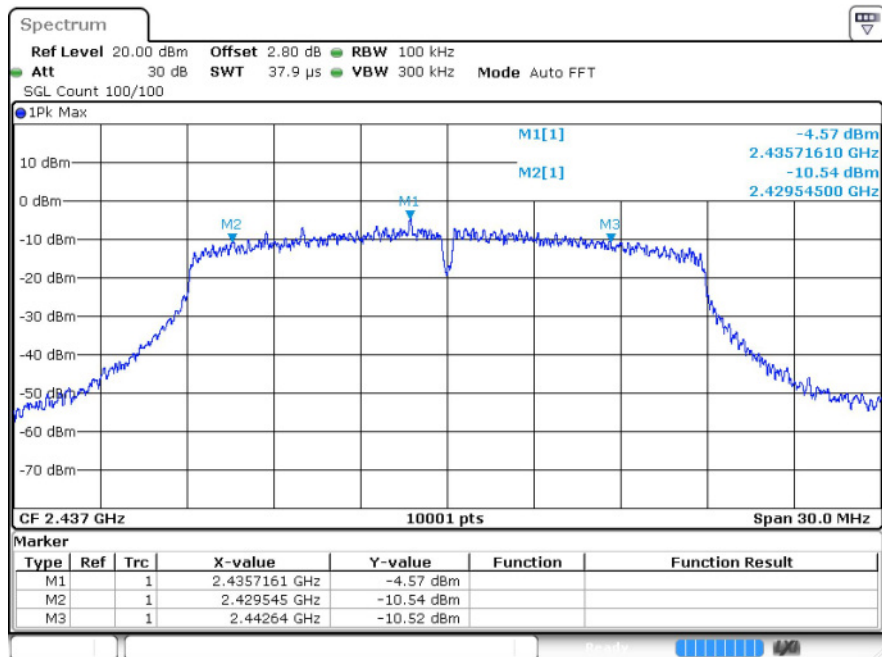
g 2462MHz Ant1

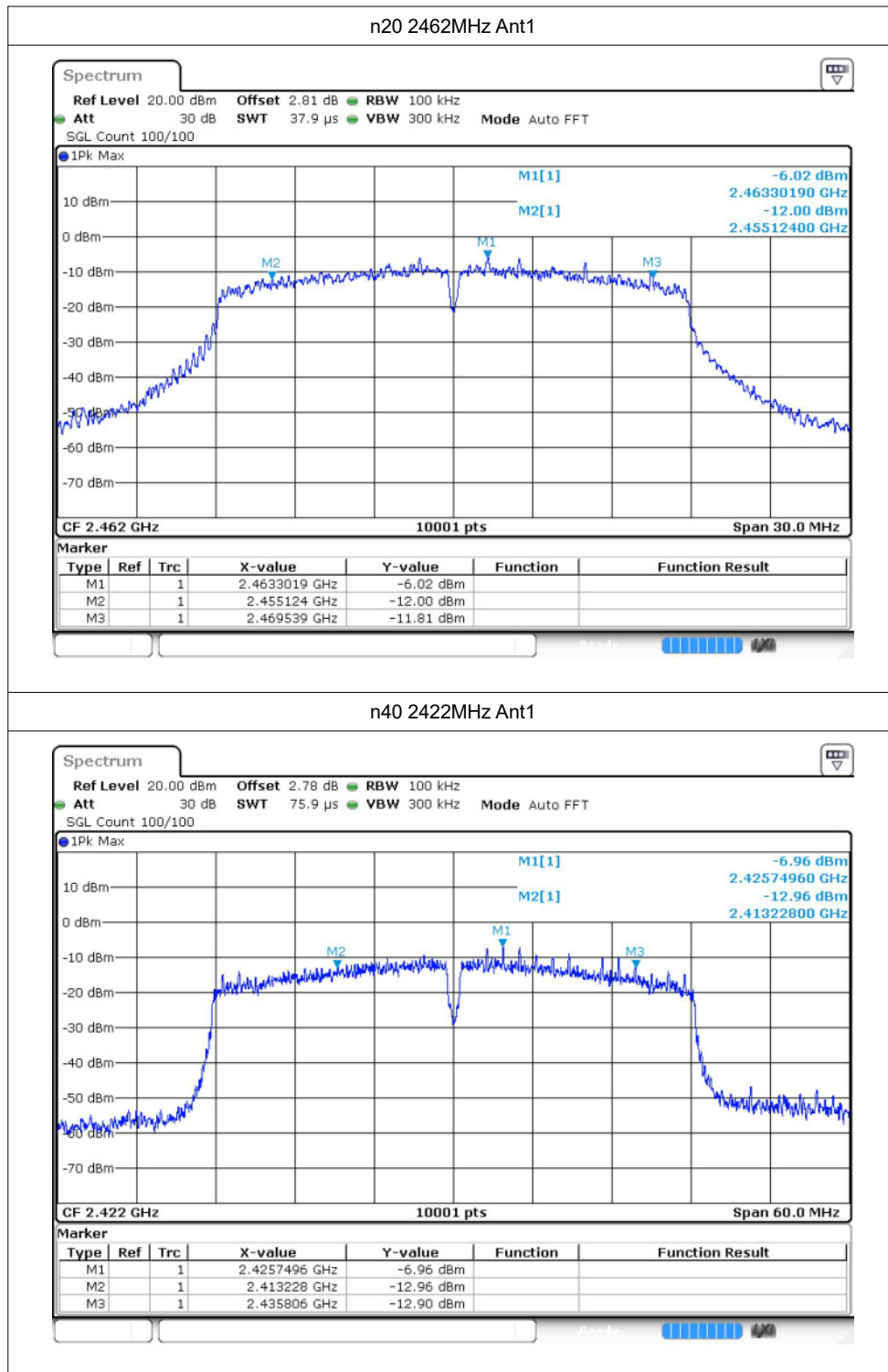


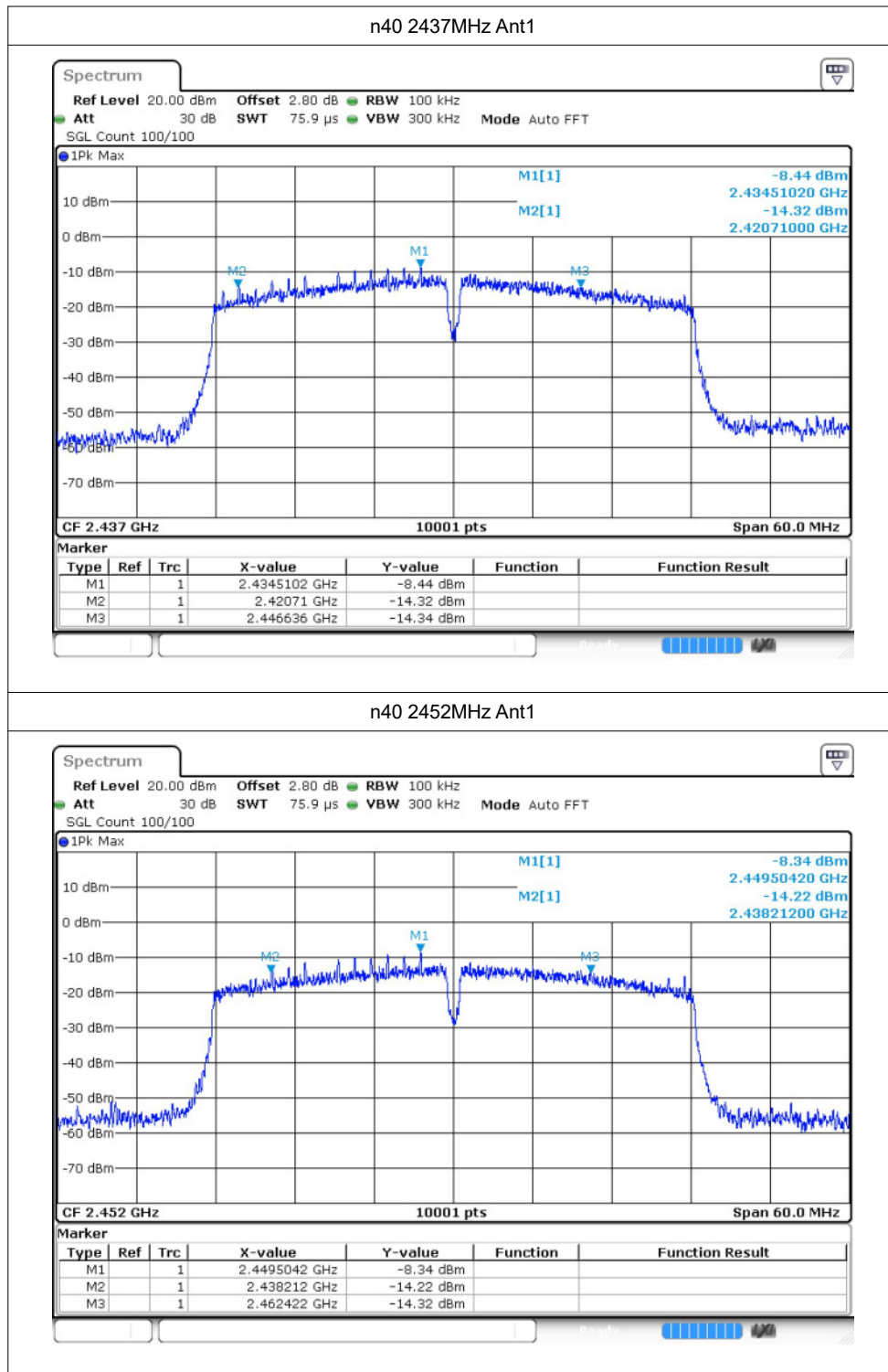
n20 2412MHz Ant1



n20 2437MHz Ant1





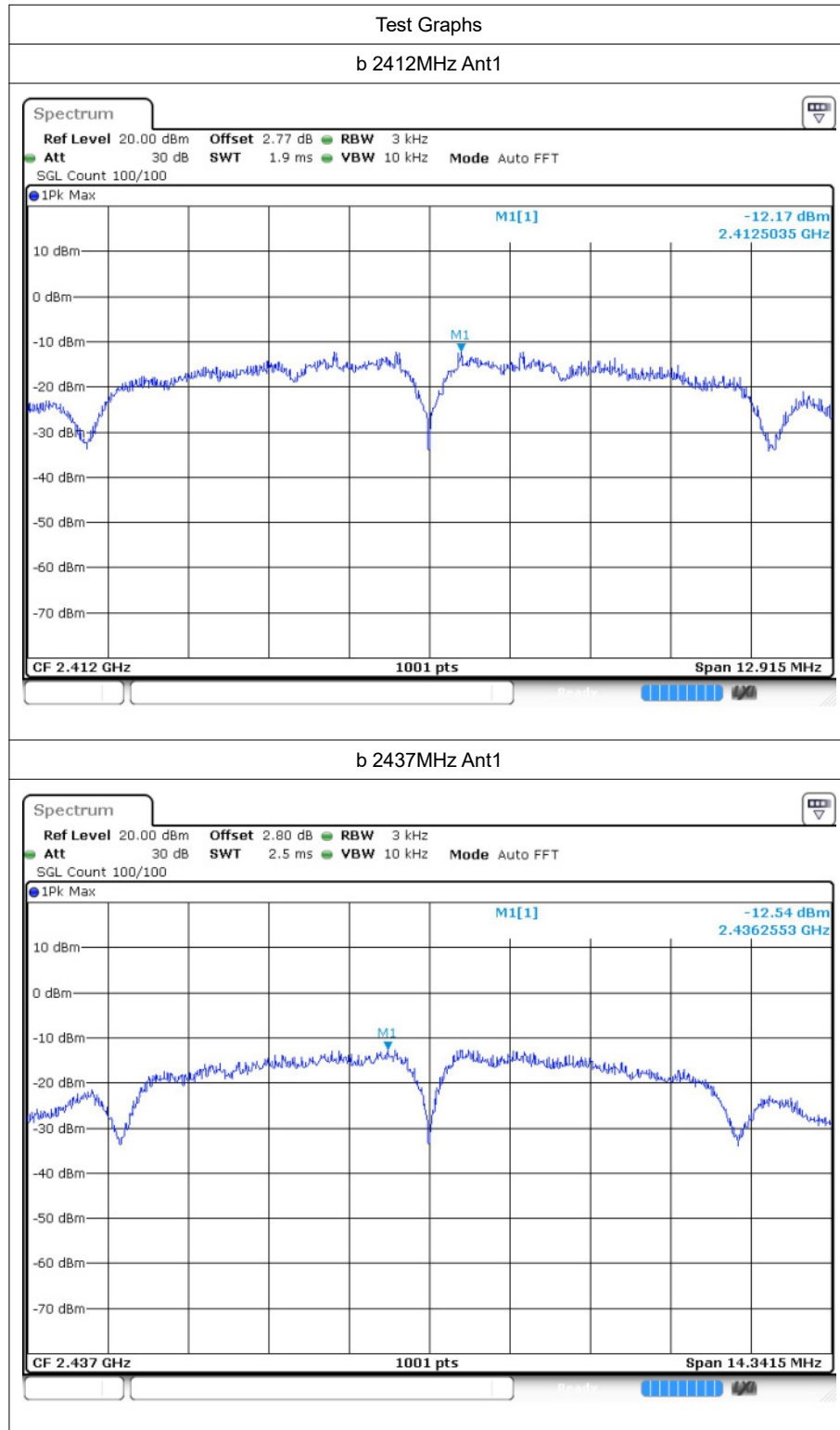


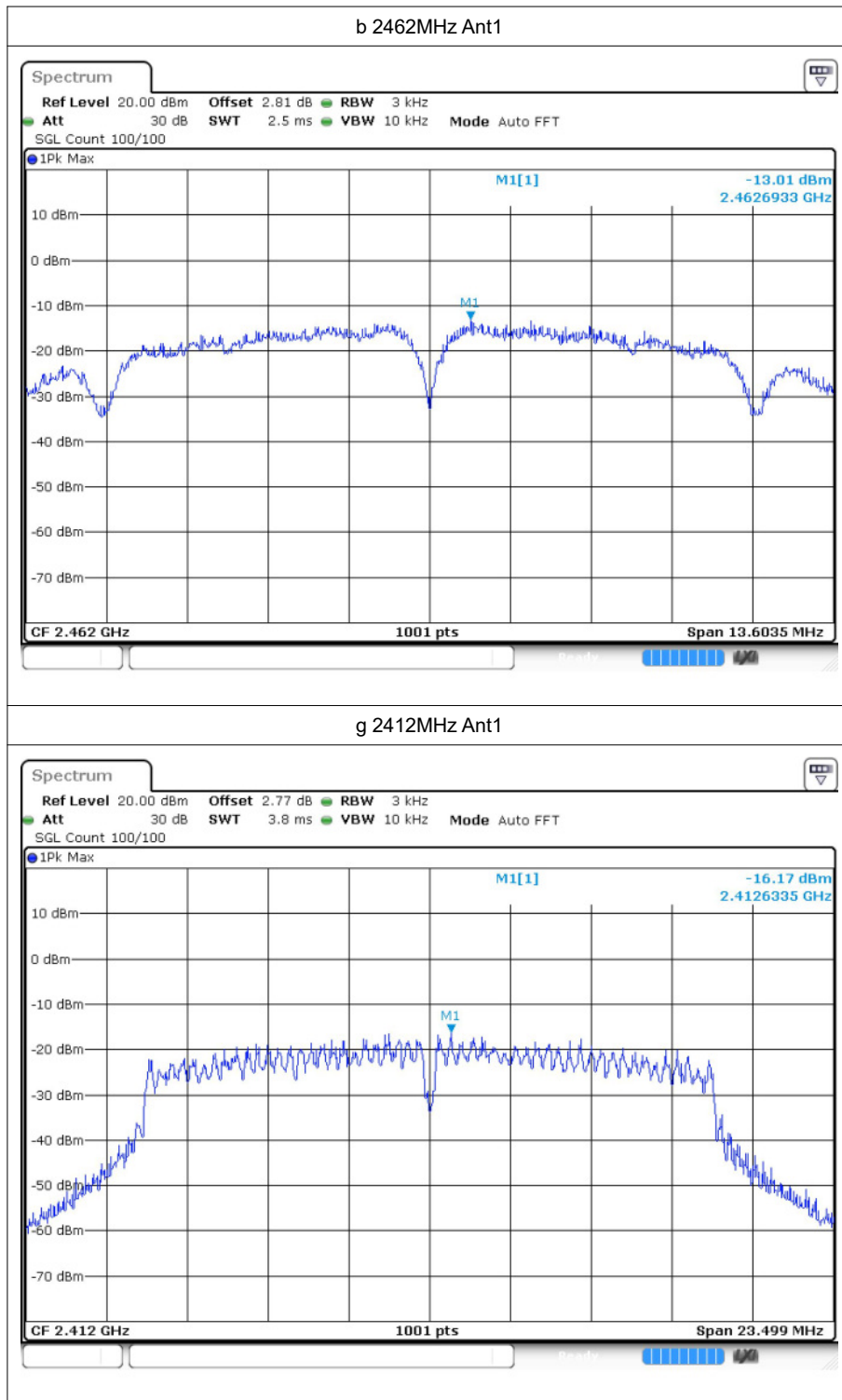
4 Maximum Power Spectral Density Level

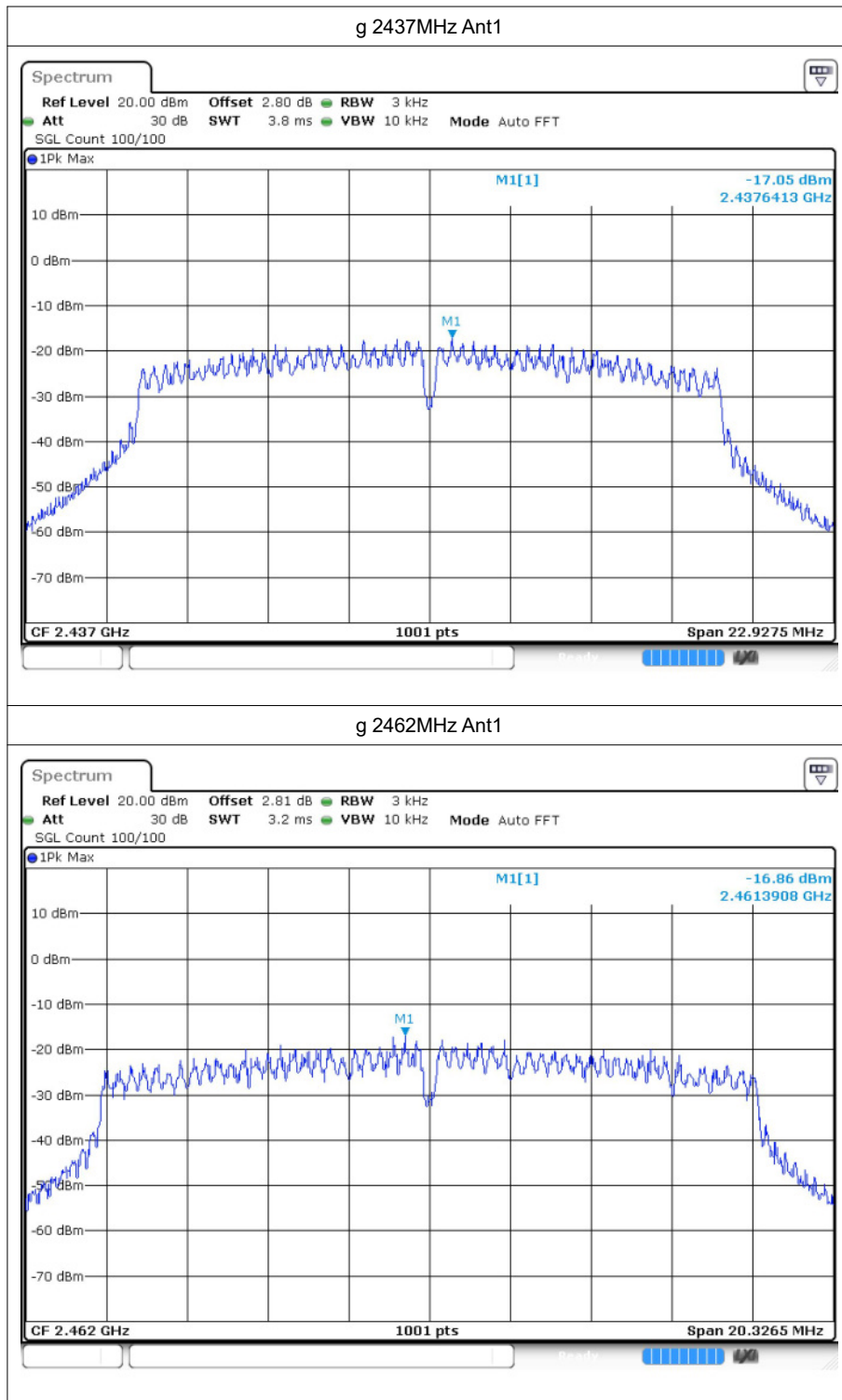
4.1 Test Result

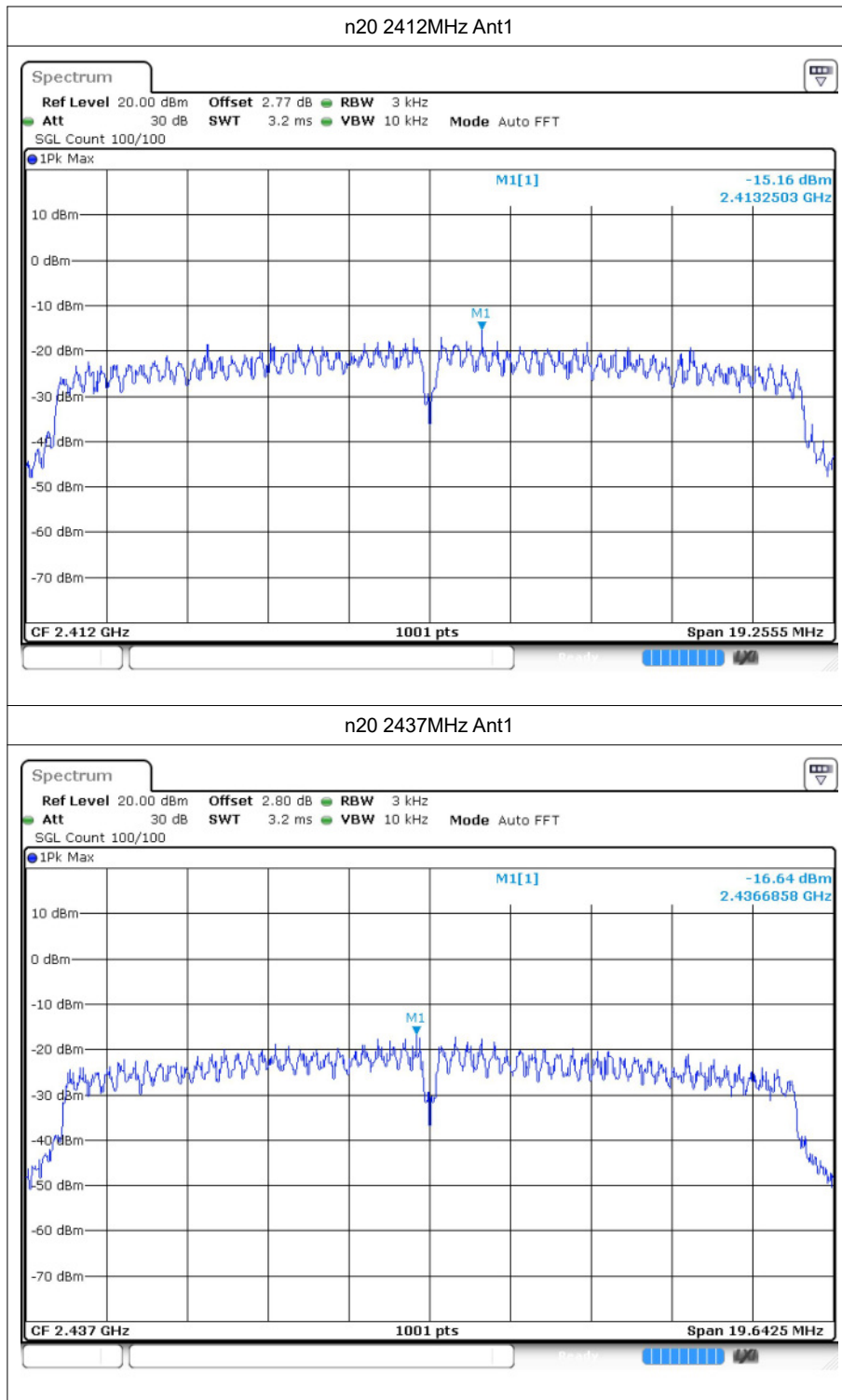
Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3-100kHz)	Limit (dBm/3kHz)	Verdict
b	2412	Ant1	-12.17	≤8	Pass
b	2437	Ant1	-12.54	≤8	Pass
b	2462	Ant1	-13.01	≤8	Pass
g	2412	Ant1	-16.17	≤8	Pass
g	2437	Ant1	-17.05	≤8	Pass
g	2462	Ant1	-16.86	≤8	Pass
n20	2412	Ant1	-15.16	≤8	Pass
n20	2437	Ant1	-16.64	≤8	Pass
n20	2462	Ant1	-18.38	≤8	Pass
n40	2422	Ant1	-19.78	≤8	Pass
n40	2437	Ant1	-22.41	≤8	Pass
n40	2452	Ant1	-23.3	≤8	Pass

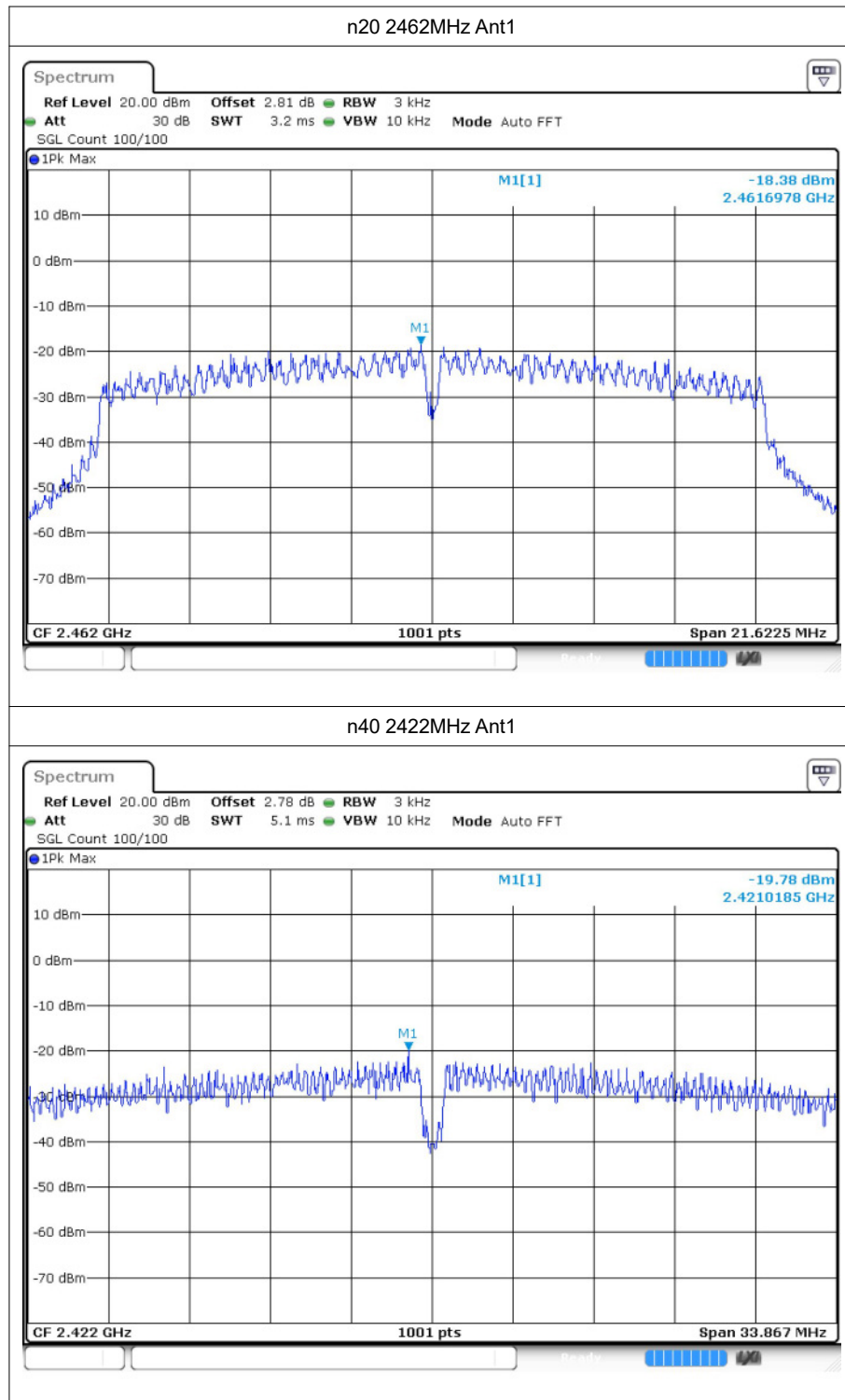
4.2 Test Graphs

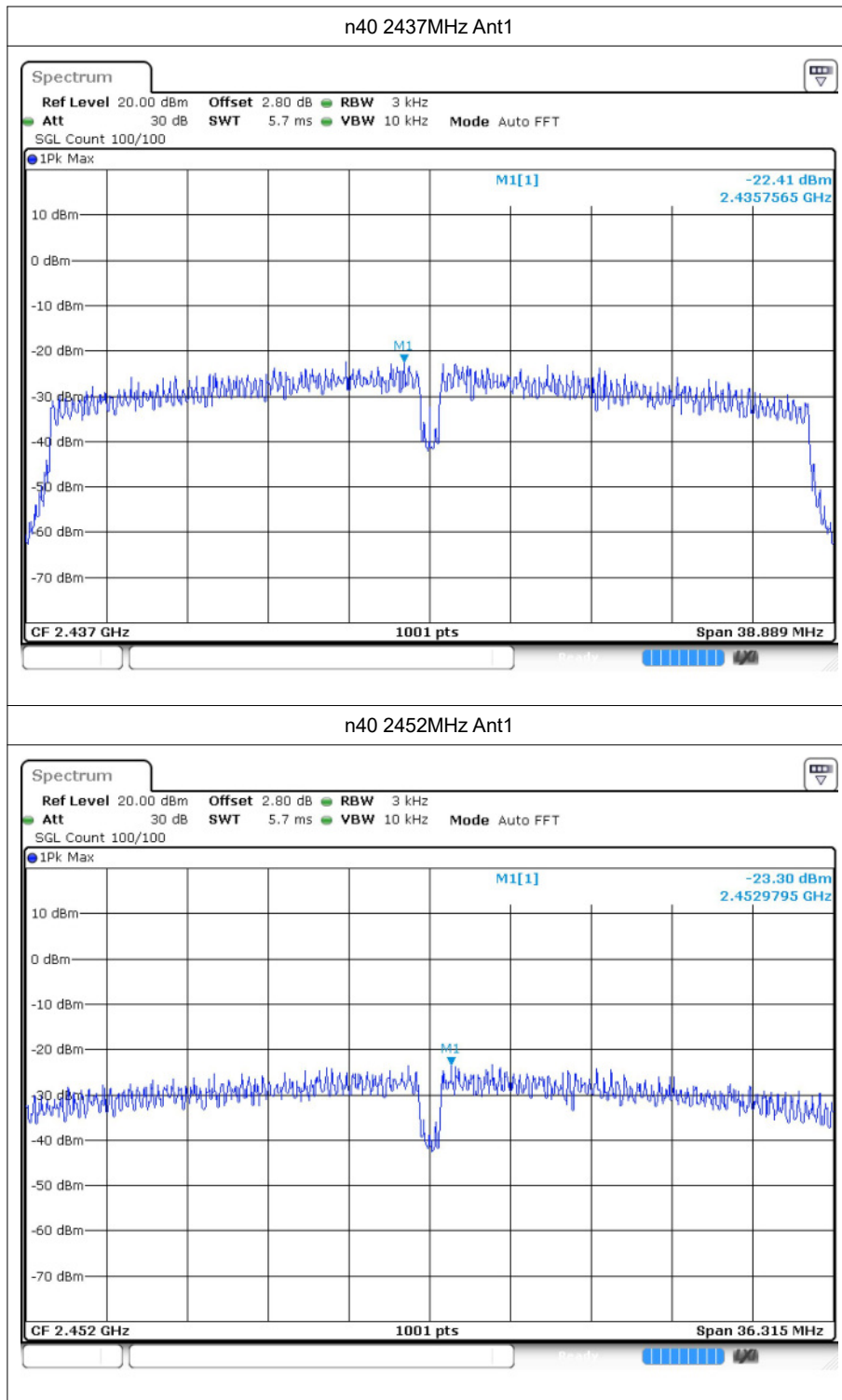














5 Band Edge

5.1 Test Result

Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
b	2412	Ant1	-55.95	-20	Pass
b	2462	Ant1	-54.95	-20	Pass
g	2412	Ant1	-48.22	-20	Pass
g	2462	Ant1	-50.19	-20	Pass
n20	2412	Ant1	-48.55	-20	Pass
n20	2462	Ant1	-49.06	-20	Pass
n40	2422	Ant1	-47.58	-20	Pass
n40	2452	Ant1	-45.27	-20	Pass

5.2 Test Graphs

