



Appendix C

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: Projector

Trade Mark: N/A

Test Model: P2

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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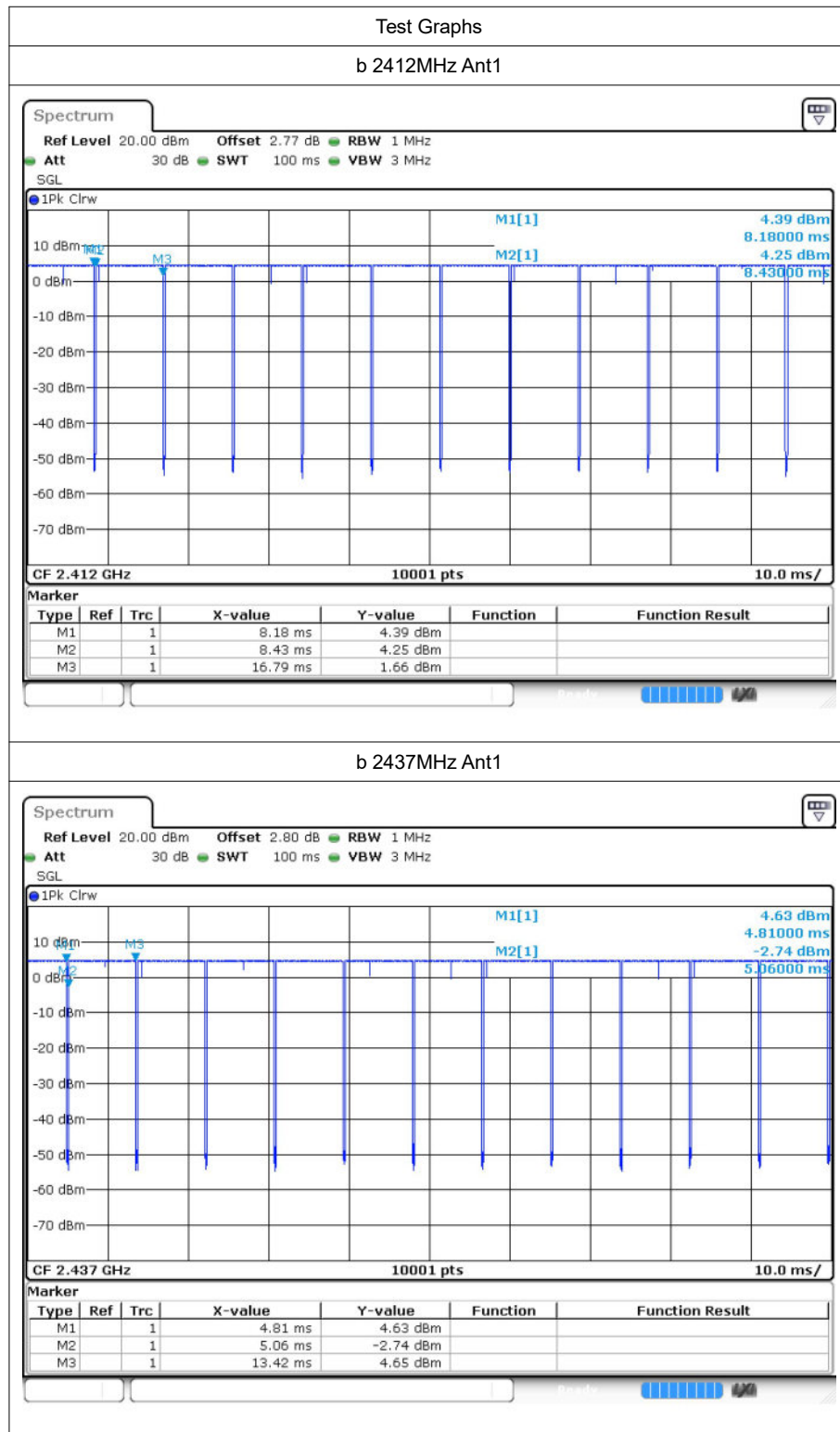


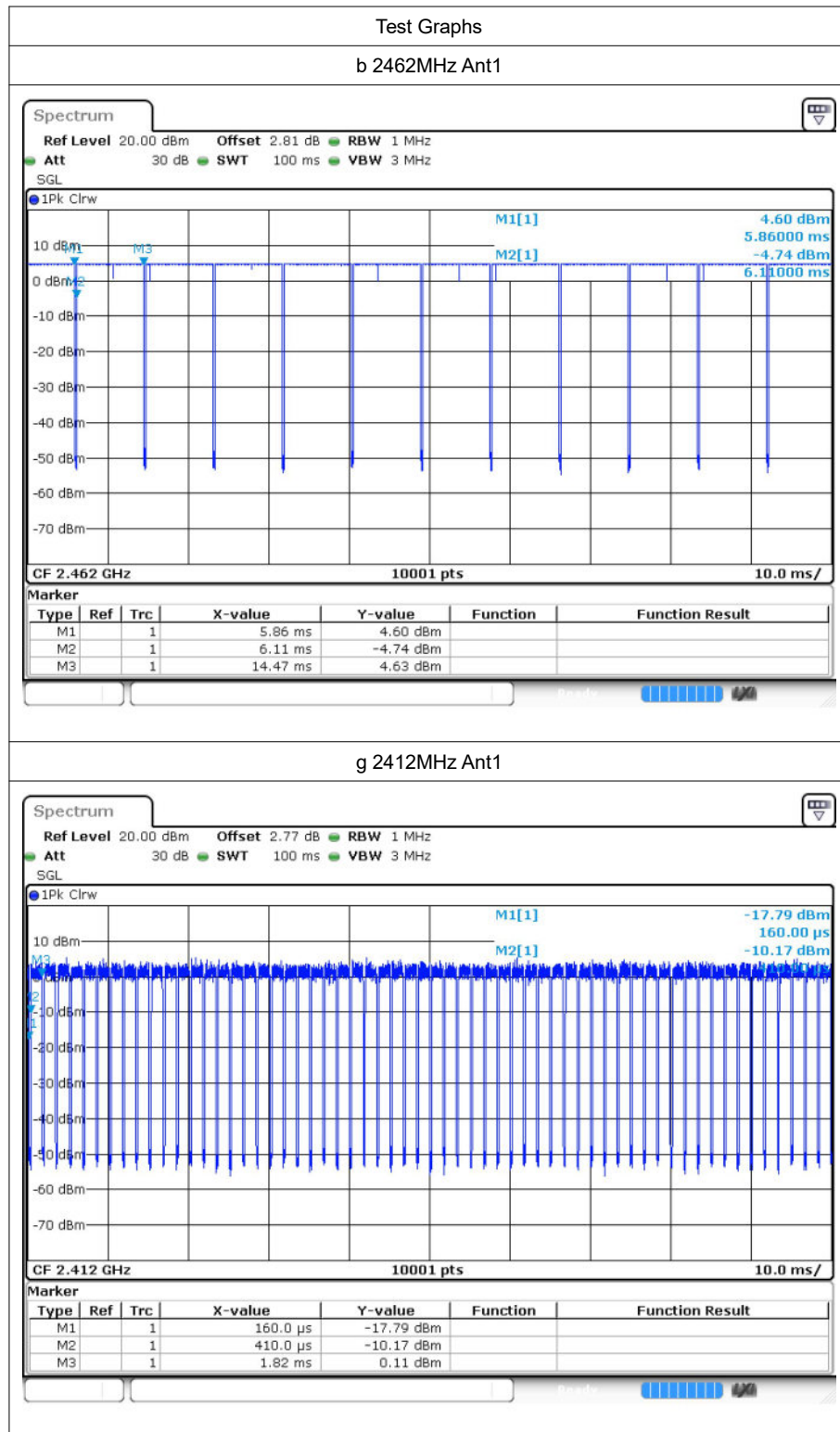
1 Duty Cycle

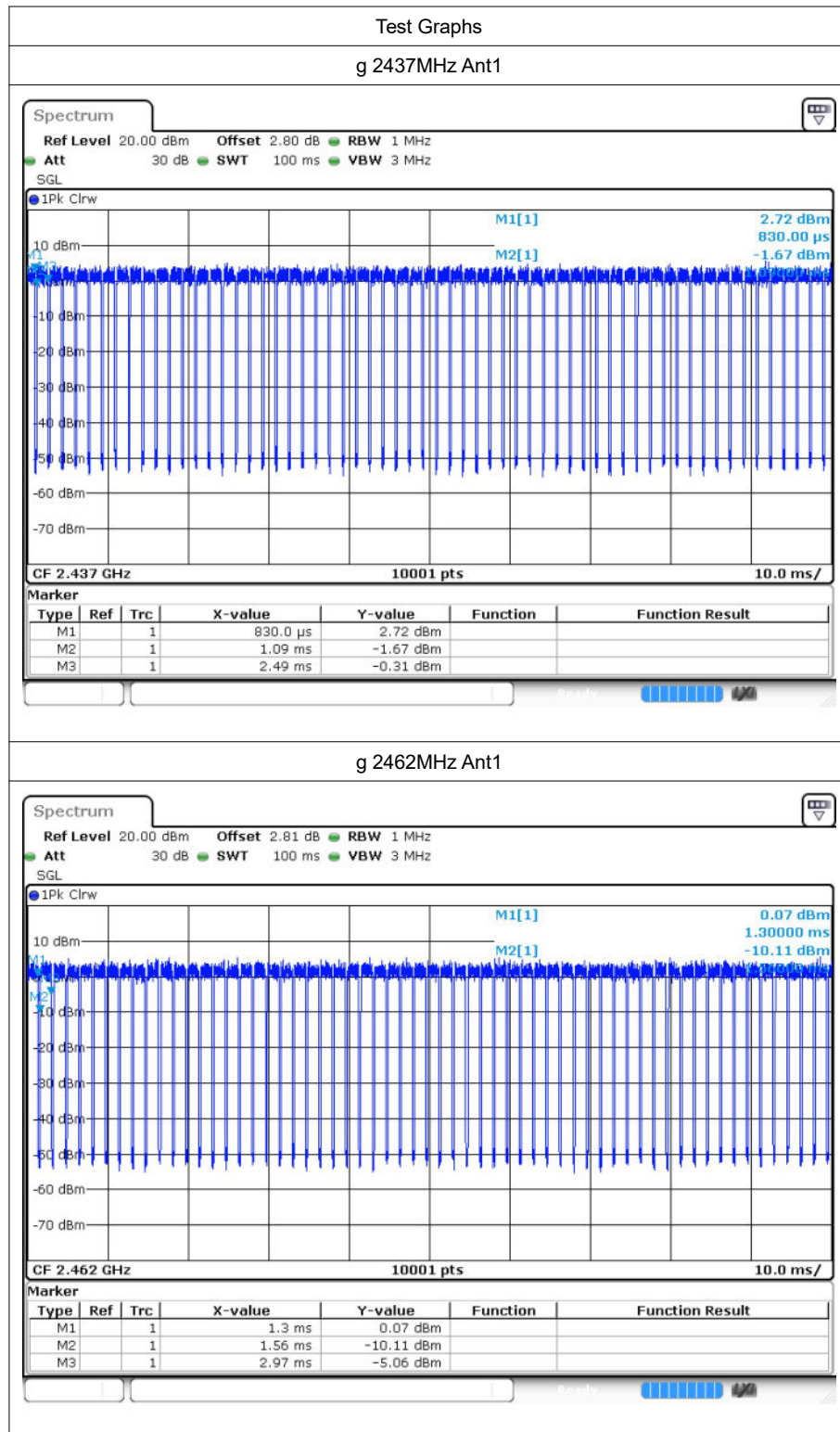
1.1 Test Result

Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor	1/T (kHz)
b	2412	Ant1	97.32	0.12	0.12
b	2437	Ant1	97.09	0.13	0.12
b	2462	Ant1	97.33	0.12	0.12
g	2412	Ant1	85.27	0.69	0.71
g	2437	Ant1	85.37	0.69	0.71
g	2462	Ant1	85.42	0.68	0.71
n20	2412	Ant1	85.58	0.68	0.69
n20	2437	Ant1	85.6	0.68	0.69
n20	2462	Ant1	85.6	0.68	0.69
n40	2422	Ant1	85.56	0.68	0.7
n40	2437	Ant1	85.56	0.68	0.7
n40	2452	Ant1	85.59	0.68	0.69
ax20	2412	Ant1	89.24	0.49	0.87
ax20	2437	Ant1	85.28	0.69	0.7
ax20	2462	Ant1	85.42	0.68	0.7
ax40	2422	Ant1	85.53	0.68	0.7
ax40	2437	Ant1	85.27	0.69	0.7
ax40	2452	Ant1	85.27	0.69	0.7

1.2 Test Graphs





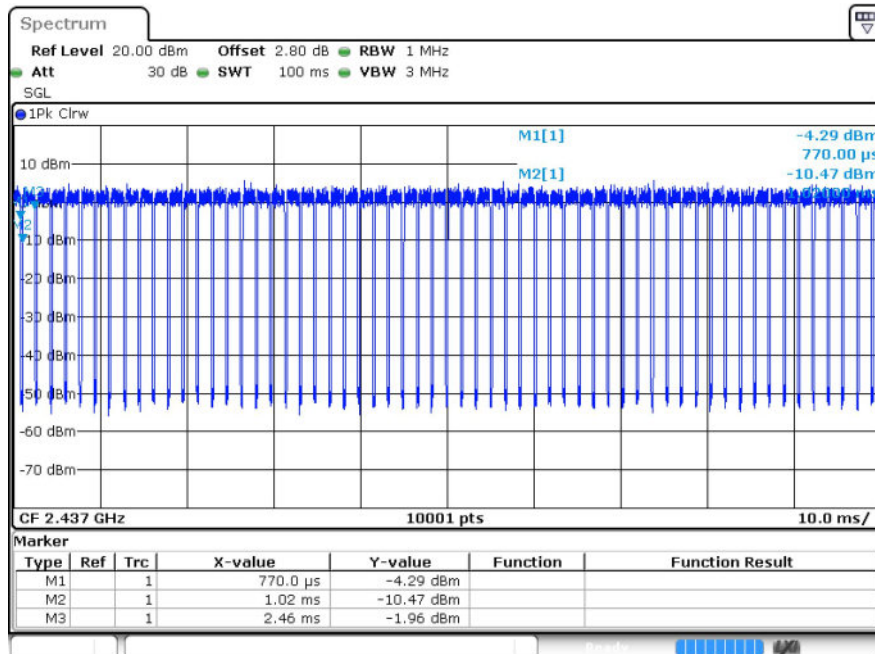


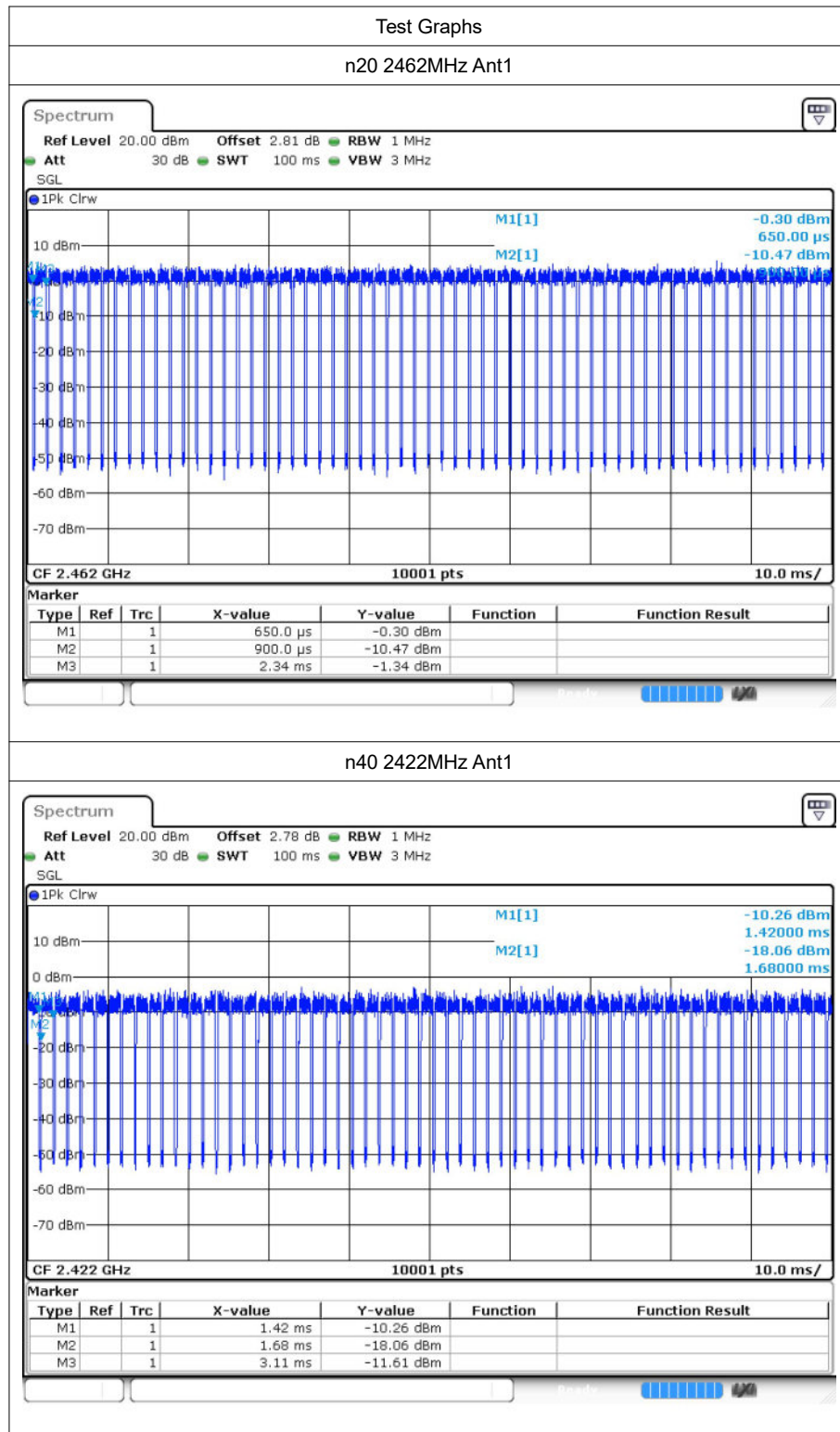
Test Graphs

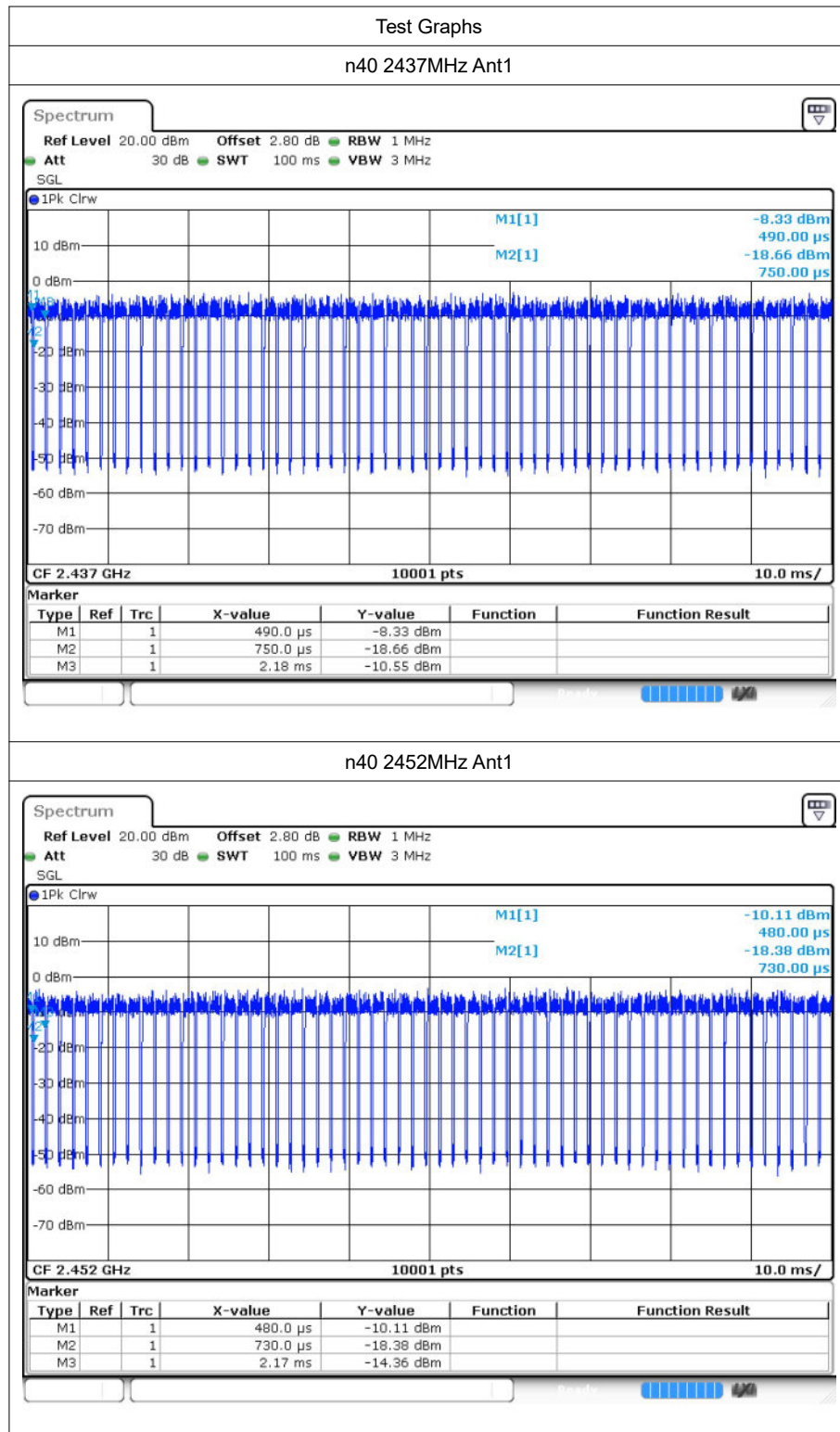
n20 2412MHz Ant1

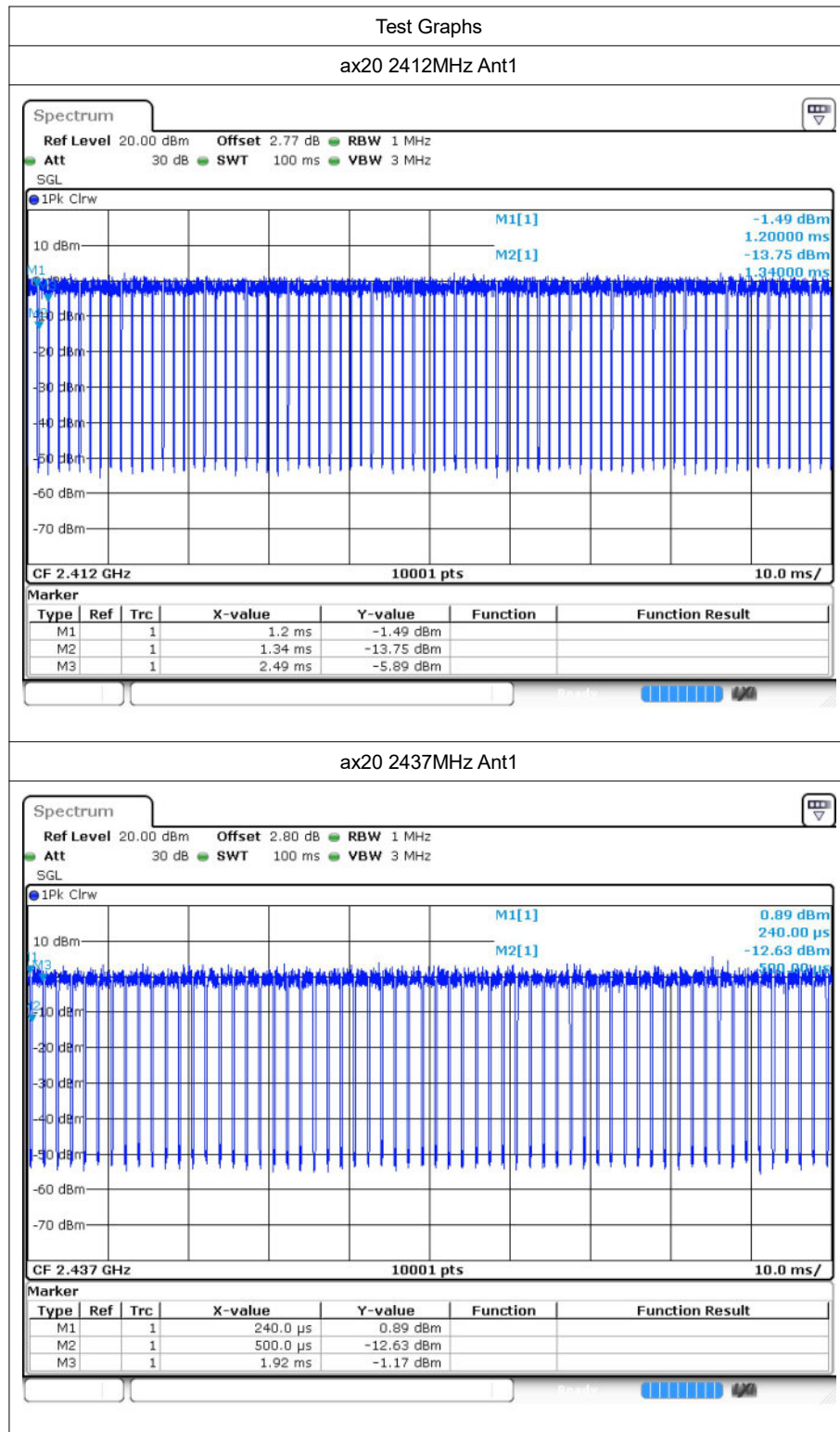


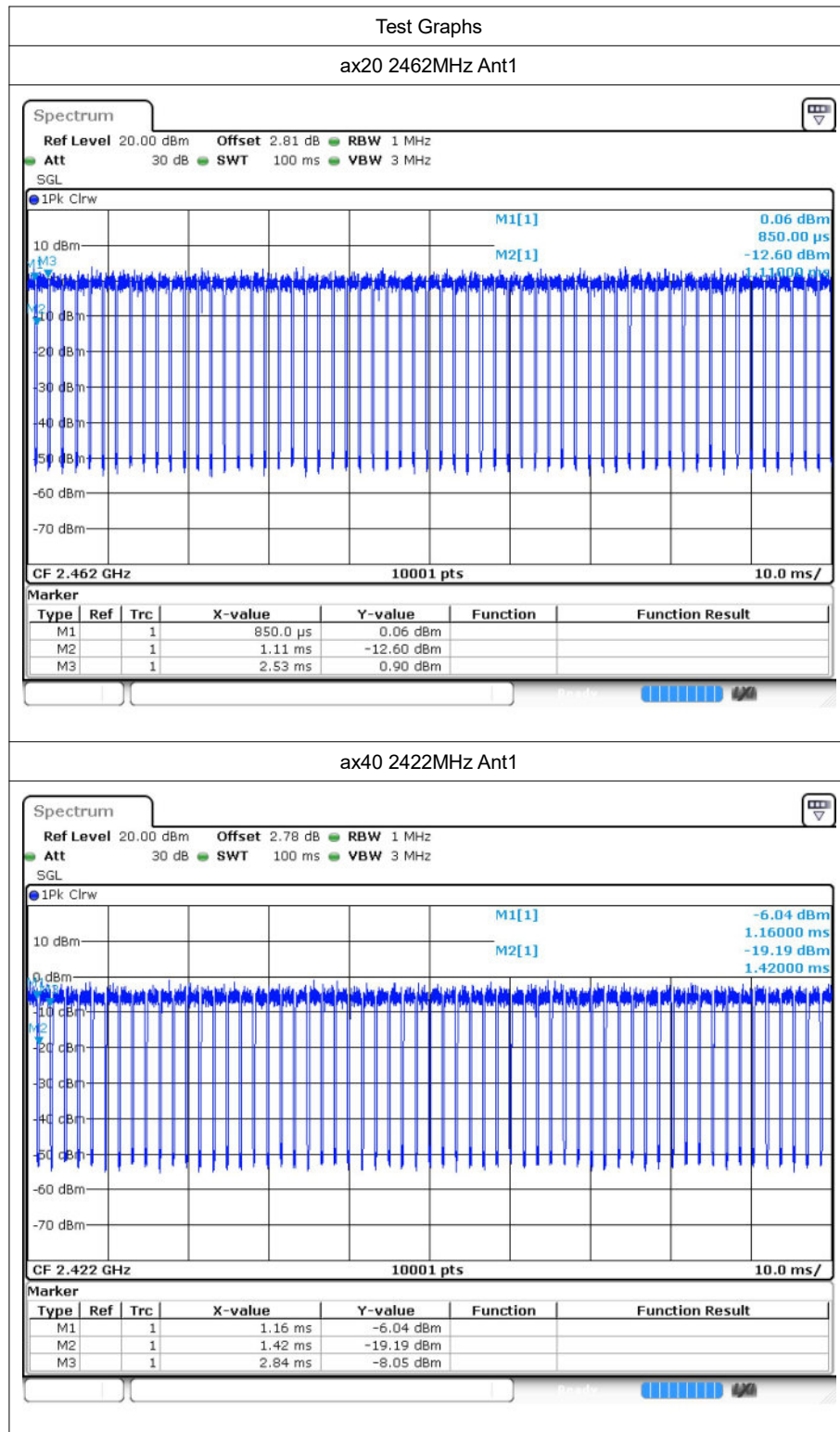
n20 2437MHz Ant1

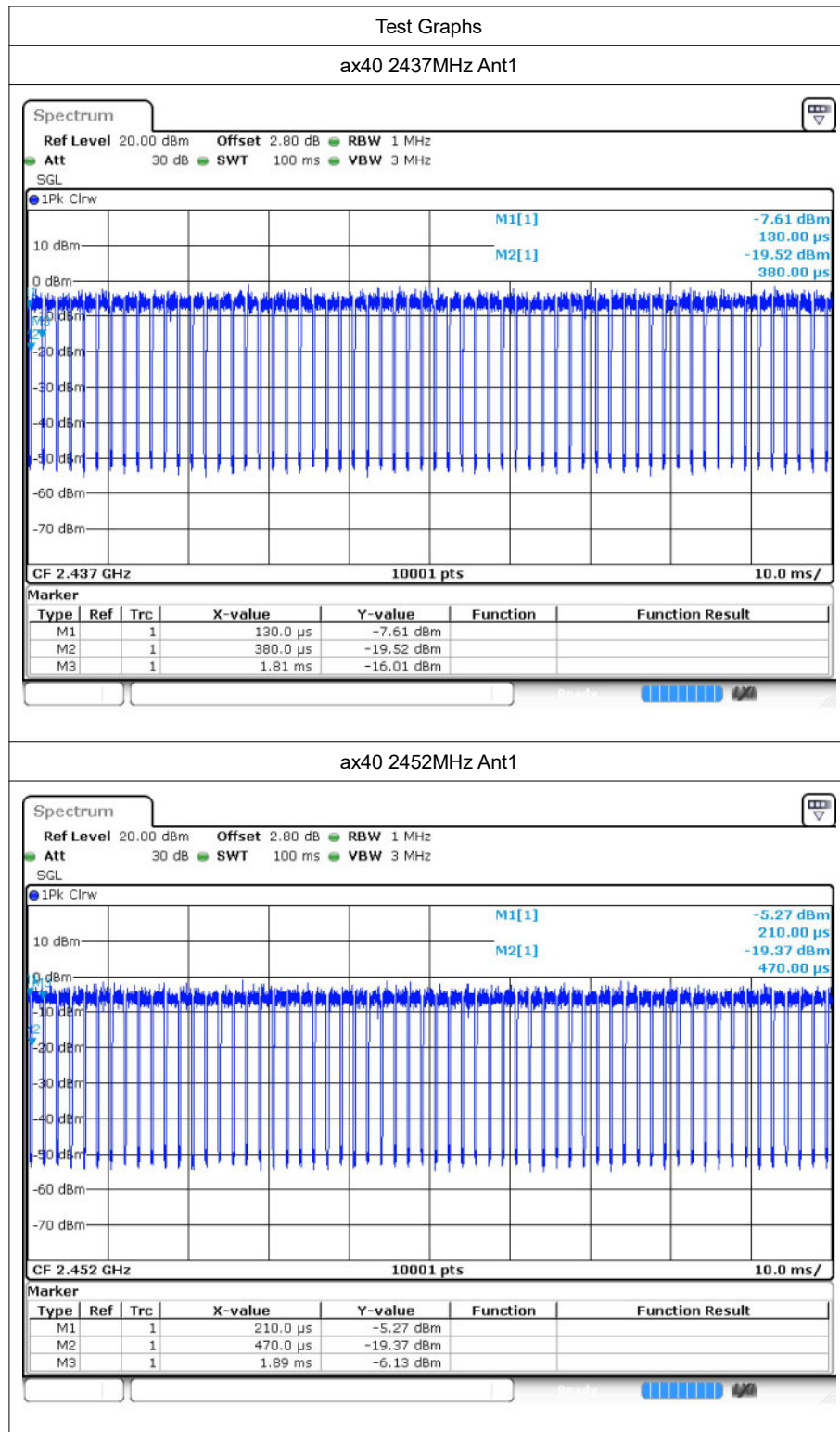














2 Maximum Conducted Output Power

2.1 Test Result

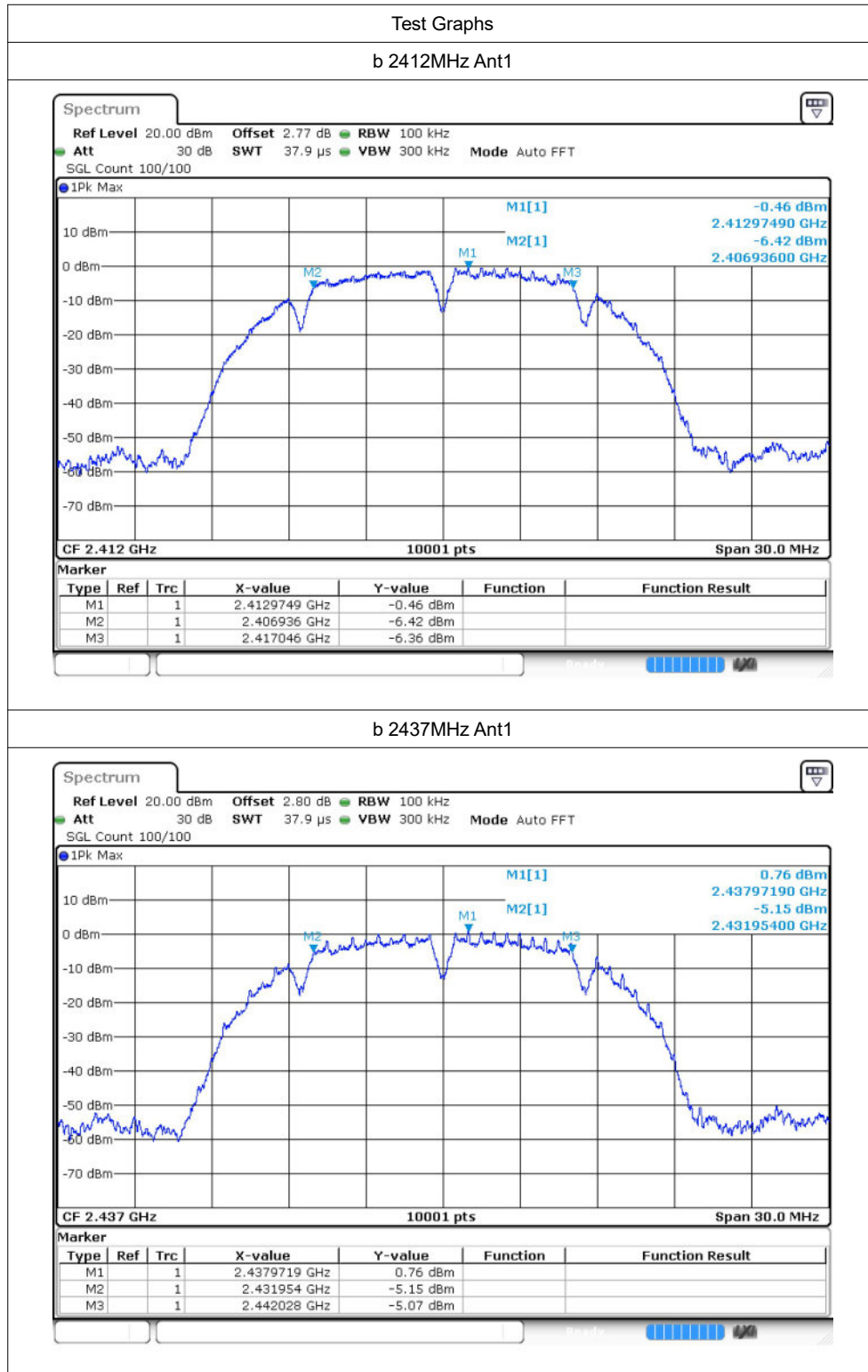
Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
b	2412	Ant1	14.97	30	Pass
b	2437	Ant1	15.03	30	Pass
b	2462	Ant1	15.11	30	Pass
g	2412	Ant1	14.57	30	Pass
g	2437	Ant1	14.76	30	Pass
g	2462	Ant1	14.66	30	Pass
n20	2412	Ant1	14.51	30	Pass
n20	2437	Ant1	14.57	30	Pass
n20	2462	Ant1	14.44	30	Pass
n40	2422	Ant1	13.16	30	Pass
n40	2437	Ant1	13.07	30	Pass
n40	2452	Ant1	12.92	30	Pass
ax20	2412	Ant1	14.08	30	Pass
ax20	2437	Ant1	13.94	30	Pass
ax20	2462	Ant1	14.04	30	Pass
ax40	2422	Ant1	12.87	30	Pass
ax40	2437	Ant1	12.68	30	Pass
ax40	2452	Ant1	12.69	30	Pass

3 -6dB Bandwidth

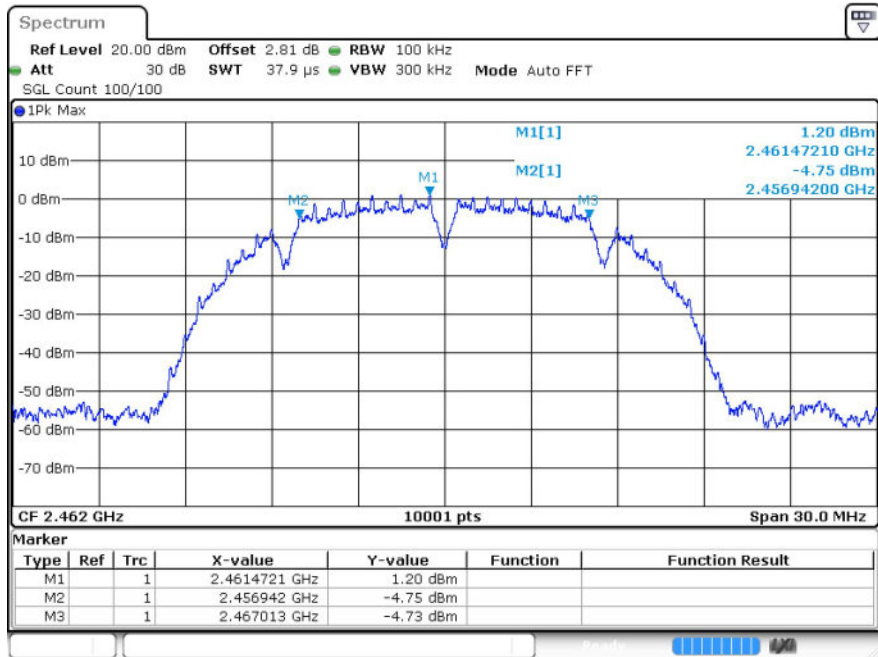
3.1 Test Result

Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
b	2412	Ant1	10.11	0.5	Pass
b	2437	Ant1	10.074	0.5	Pass
b	2462	Ant1	10.071	0.5	Pass
g	2412	Ant1	12.309	0.5	Pass
g	2437	Ant1	16.269	0.5	Pass
g	2462	Ant1	16.338	0.5	Pass
n20	2412	Ant1	12.945	0.5	Pass
n20	2437	Ant1	12.57	0.5	Pass
n20	2462	Ant1	17.574	0.5	Pass
n40	2422	Ant1	27.594	0.5	Pass
n40	2437	Ant1	35.118	0.5	Pass
n40	2452	Ant1	35.67	0.5	Pass
ax20	2412	Ant1	12.477	0.5	Pass
ax20	2437	Ant1	12.06	0.5	Pass
ax20	2462	Ant1	14.055	0.5	Pass
ax40	2422	Ant1	35.04	0.5	Pass
ax40	2437	Ant1	34.488	0.5	Pass
ax40	2452	Ant1	35.064	0.5	Pass

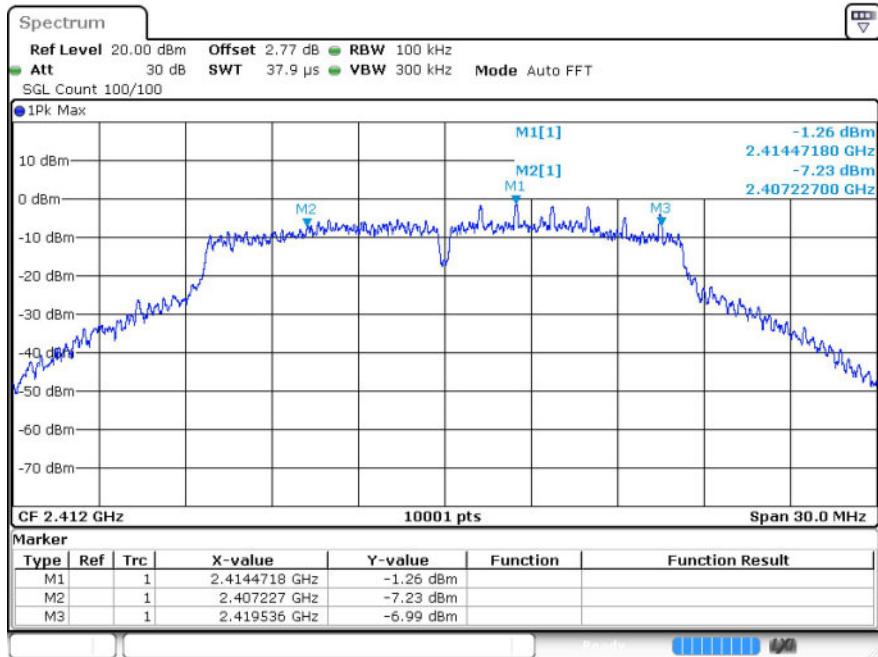
3.2 Test Graphs



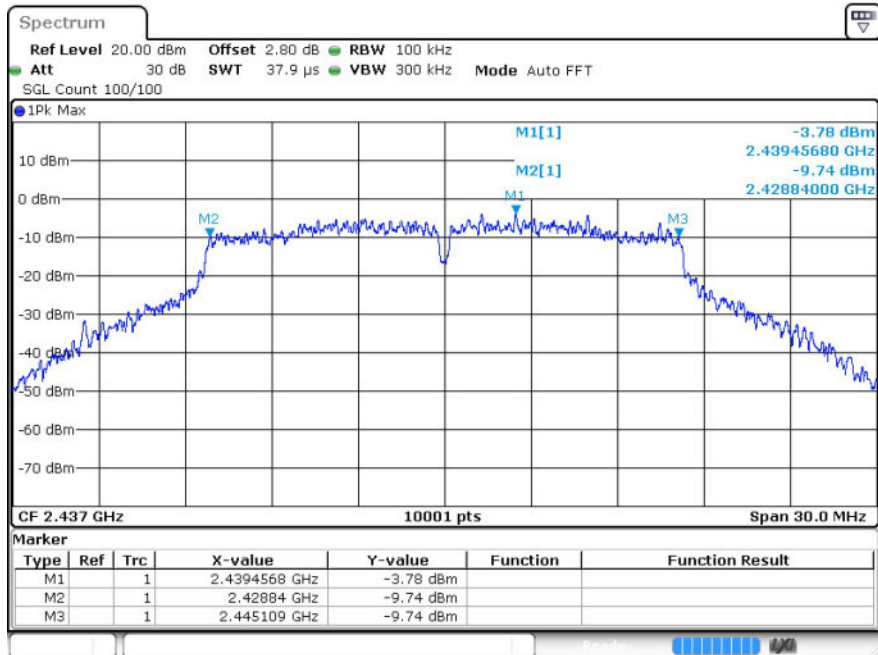
b 2462MHz Ant1



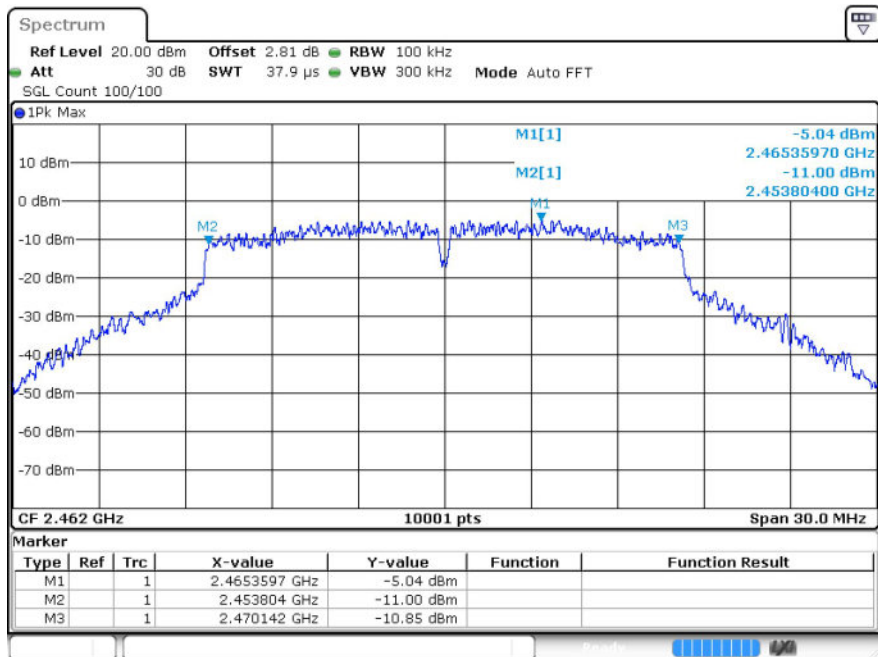
g 2412MHz Ant1

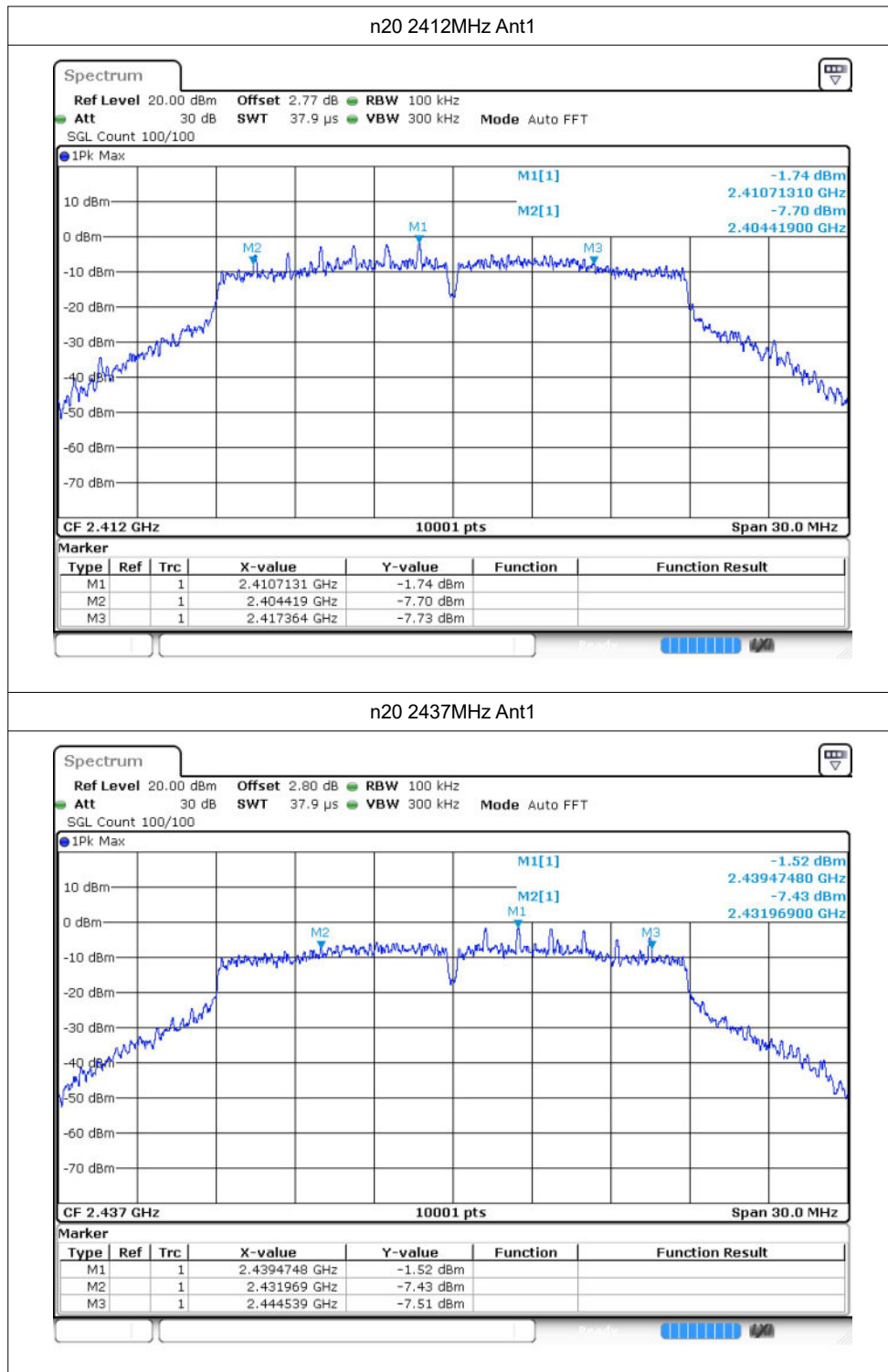


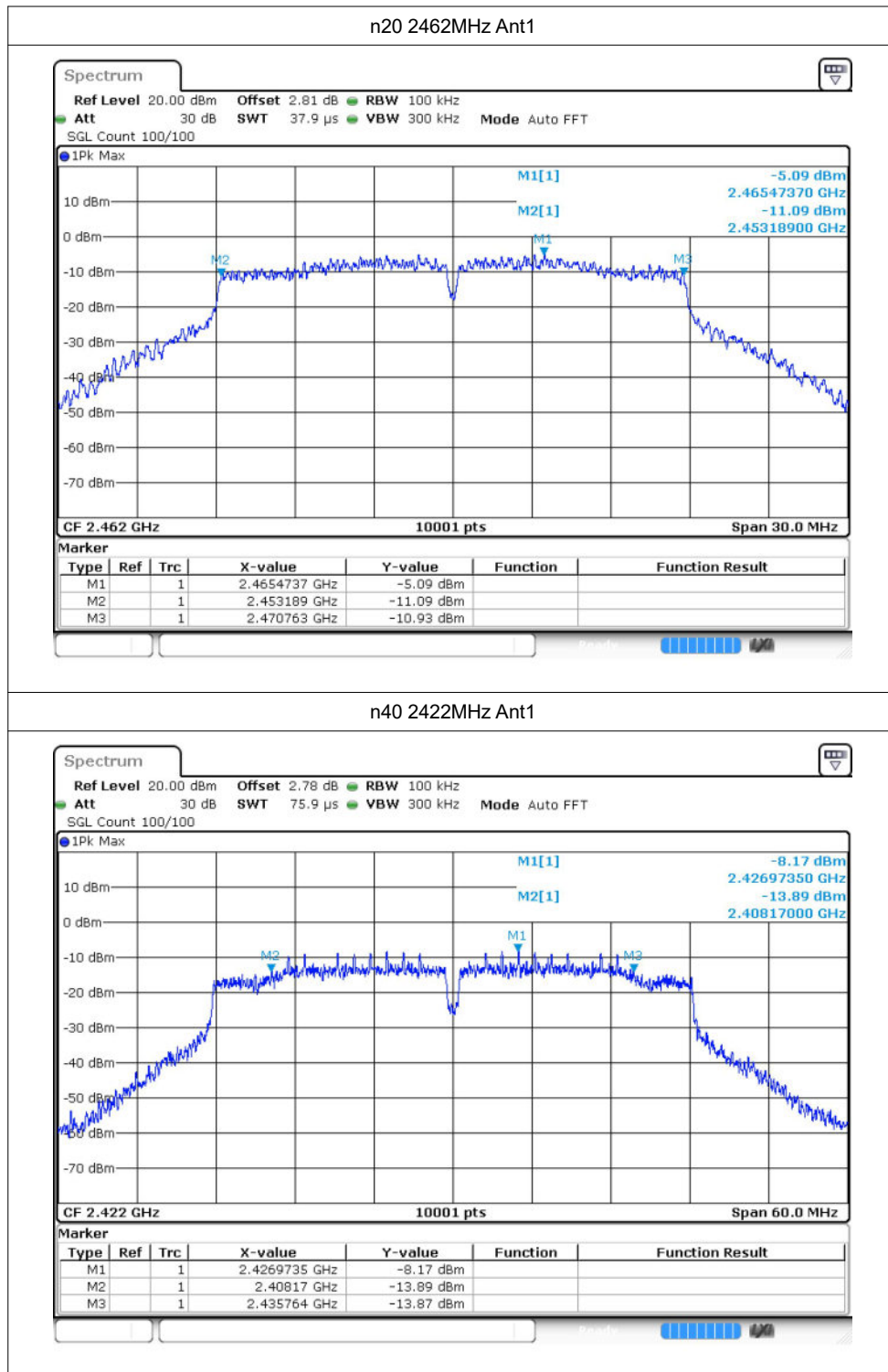
g 2437MHz Ant1



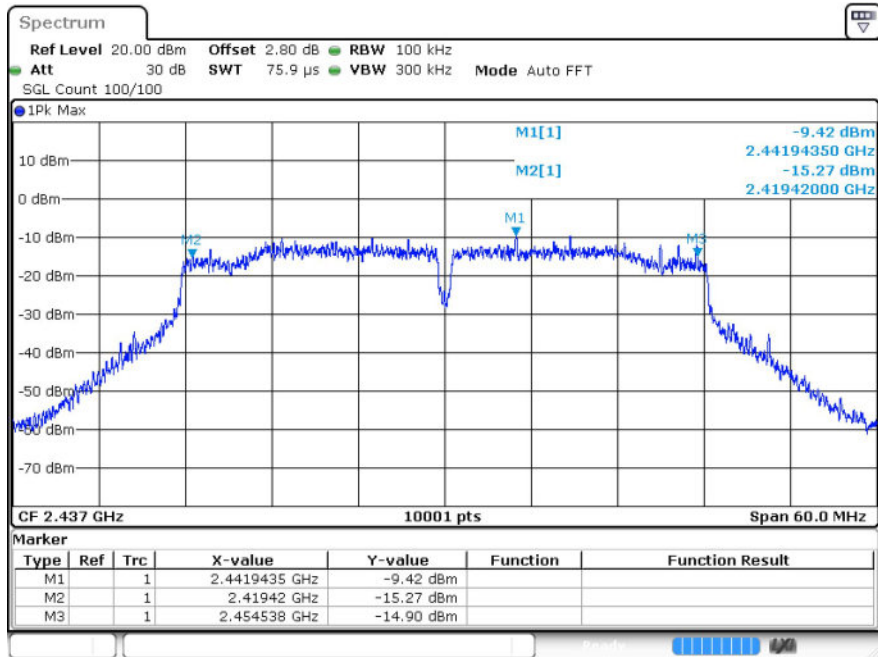
g 2462MHz Ant1



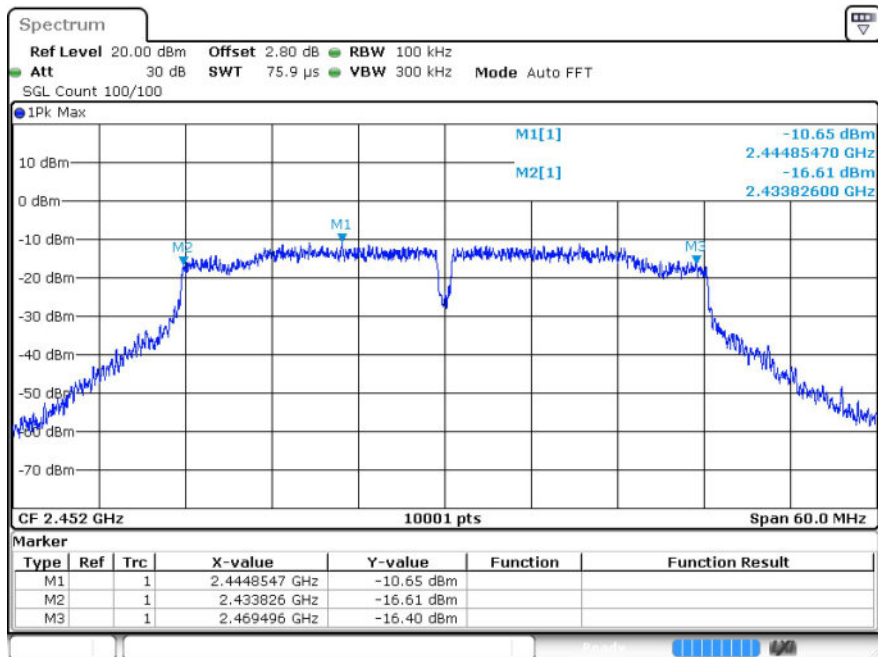


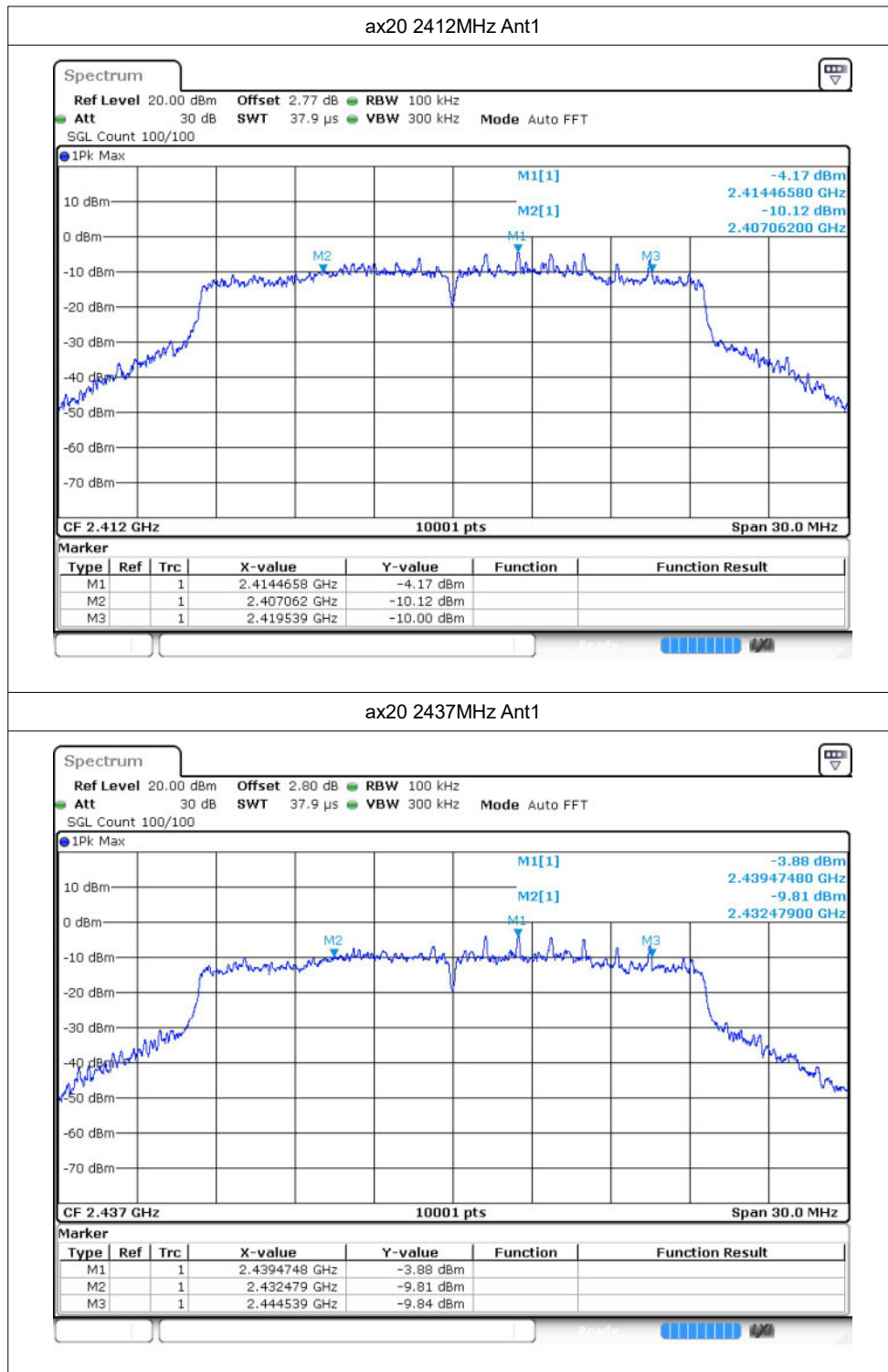


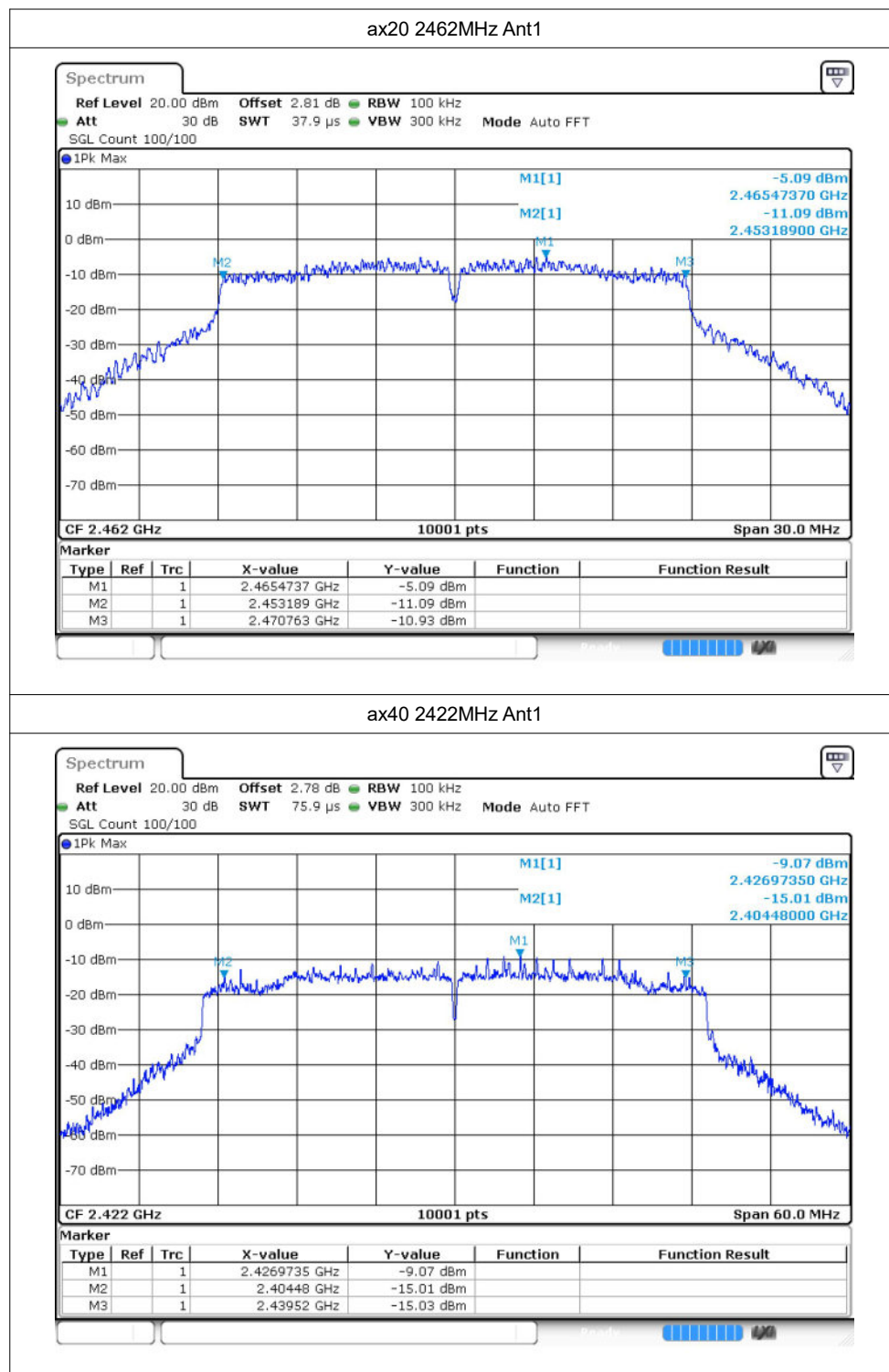
n40 2437MHz Ant1



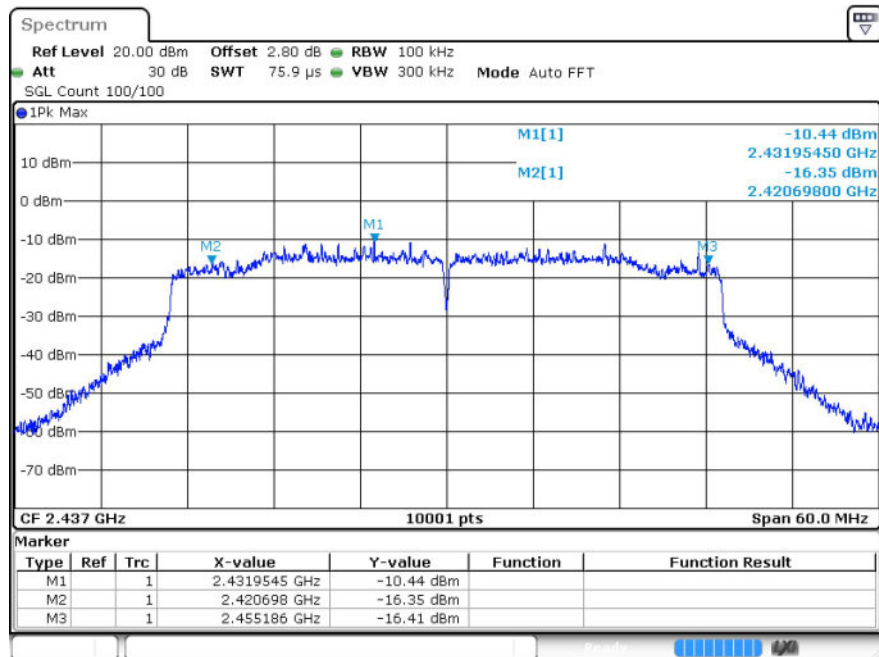
n40 2452MHz Ant1



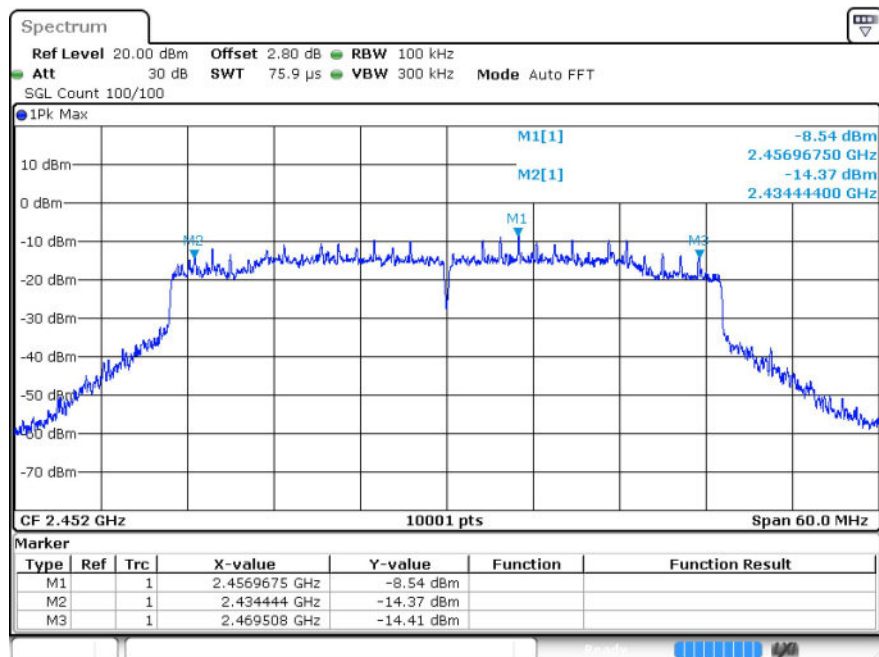




ax40 2437MHz Ant1



ax40 2452MHz Ant1

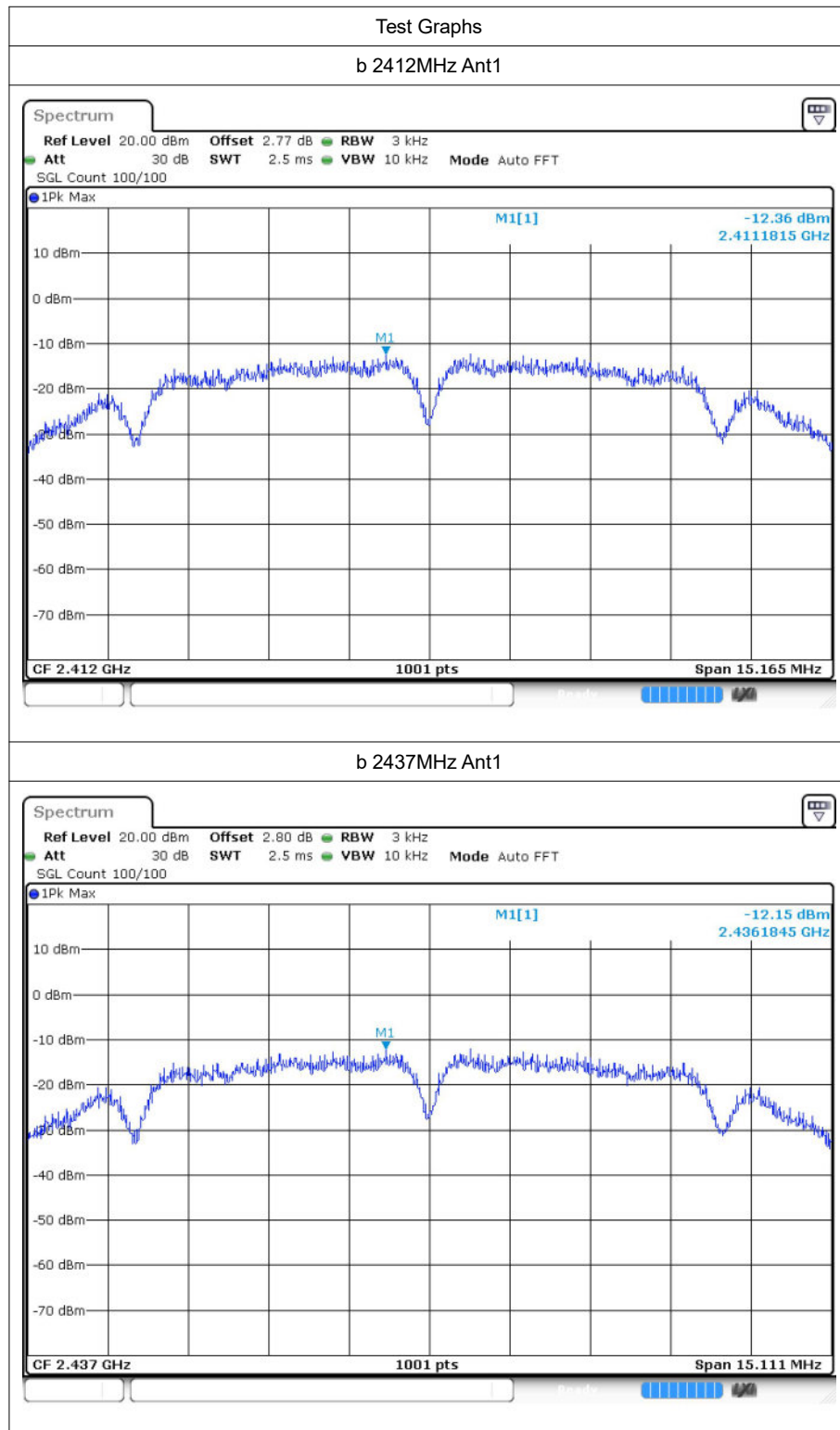


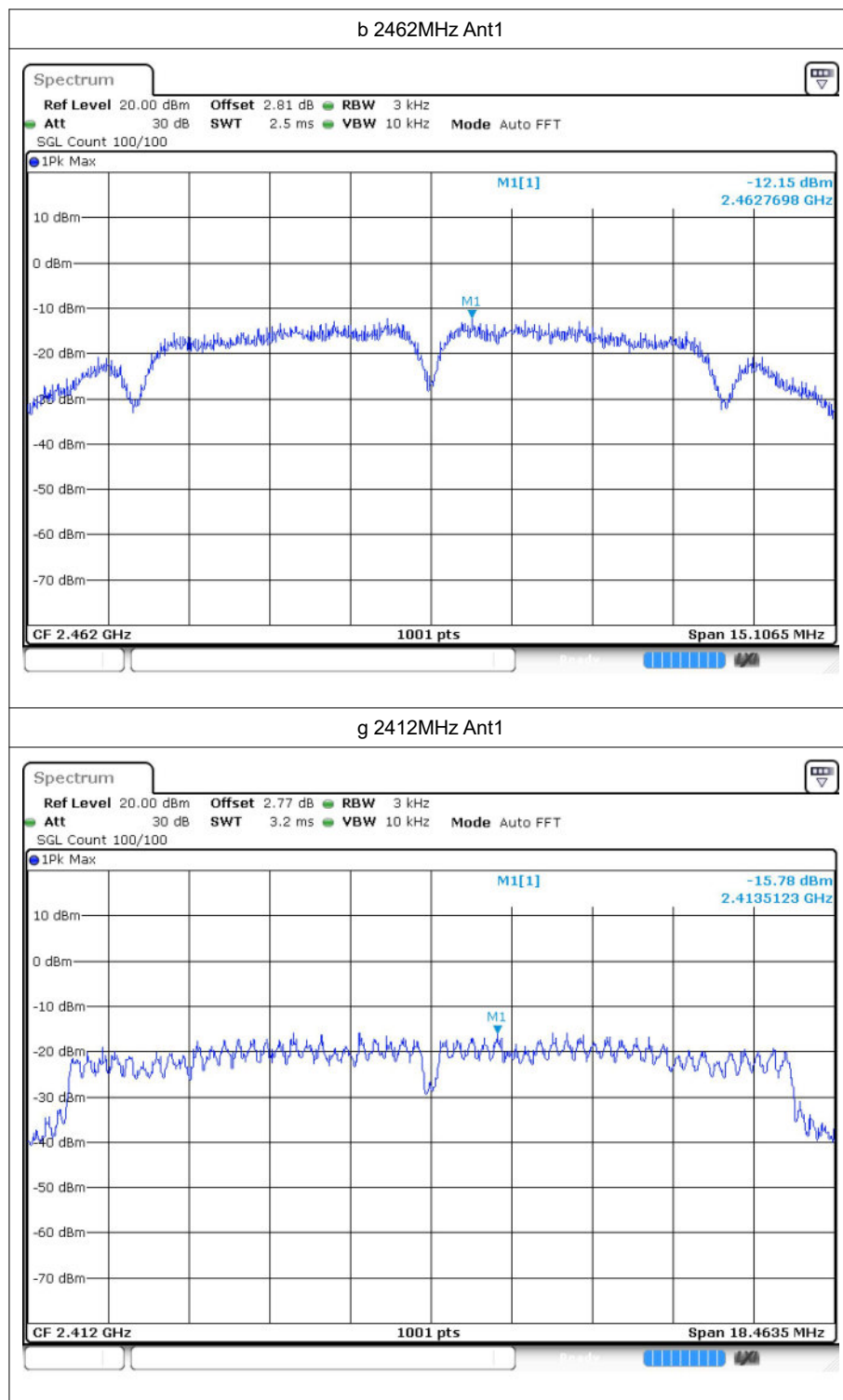
4 Maximum Power Spectral Density Level

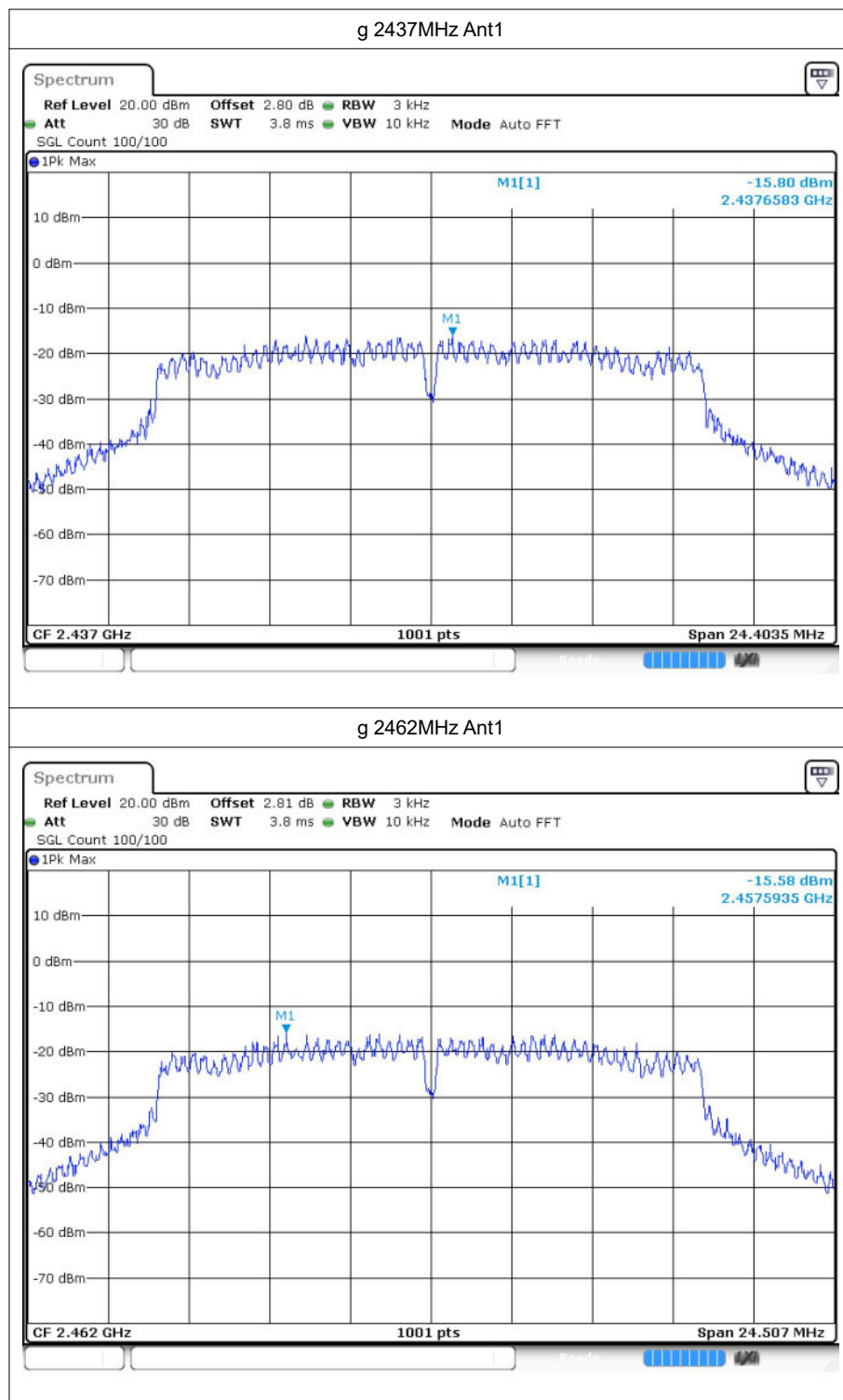
4.1 Test Result

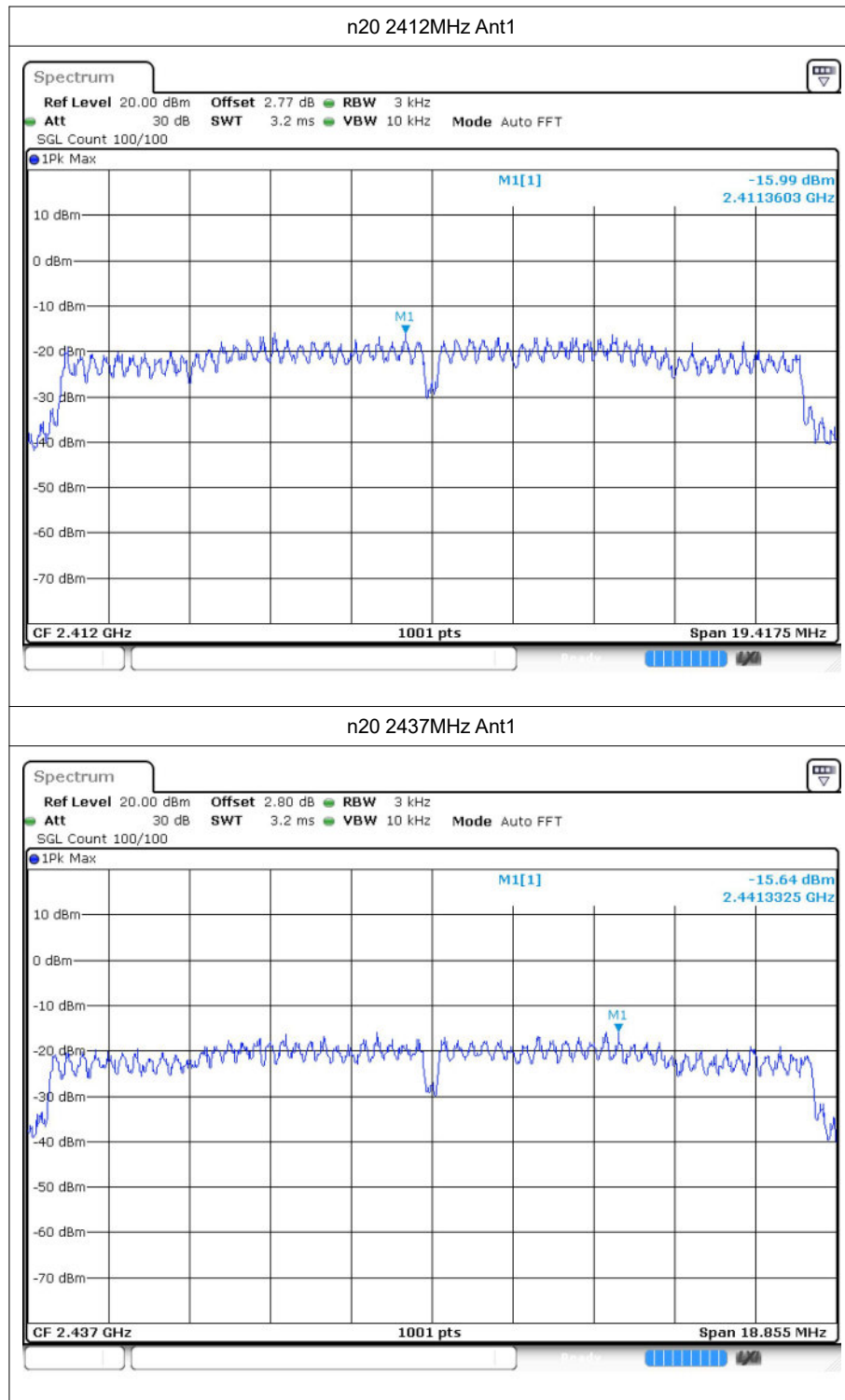
Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3-100kHz)	Limit (dBm/3kHz)	Verdict
b	2412	Ant1	-12.36	≤8	Pass
b	2437	Ant1	-12.15	≤8	Pass
b	2462	Ant1	-12.15	≤8	Pass
g	2412	Ant1	-15.78	≤8	Pass
g	2437	Ant1	-15.8	≤8	Pass
g	2462	Ant1	-15.58	≤8	Pass
n20	2412	Ant1	-15.99	≤8	Pass
n20	2437	Ant1	-15.64	≤8	Pass
n20	2462	Ant1	-15.36	≤8	Pass
n40	2422	Ant1	-20.36	≤8	Pass
n40	2437	Ant1	-20.91	≤8	Pass
n40	2452	Ant1	-21.55	≤8	Pass
ax20	2412	Ant1	-6.36	≤8	Pass
ax20	2437	Ant1	-7.56	≤8	Pass
ax20	2462	Ant1	-7.01	≤8	Pass
ax40	2422	Ant1	-9.78	≤8	Pass
ax40	2437	Ant1	-12.39	≤8	Pass
ax40	2452	Ant1	-8.64	≤8	Pass

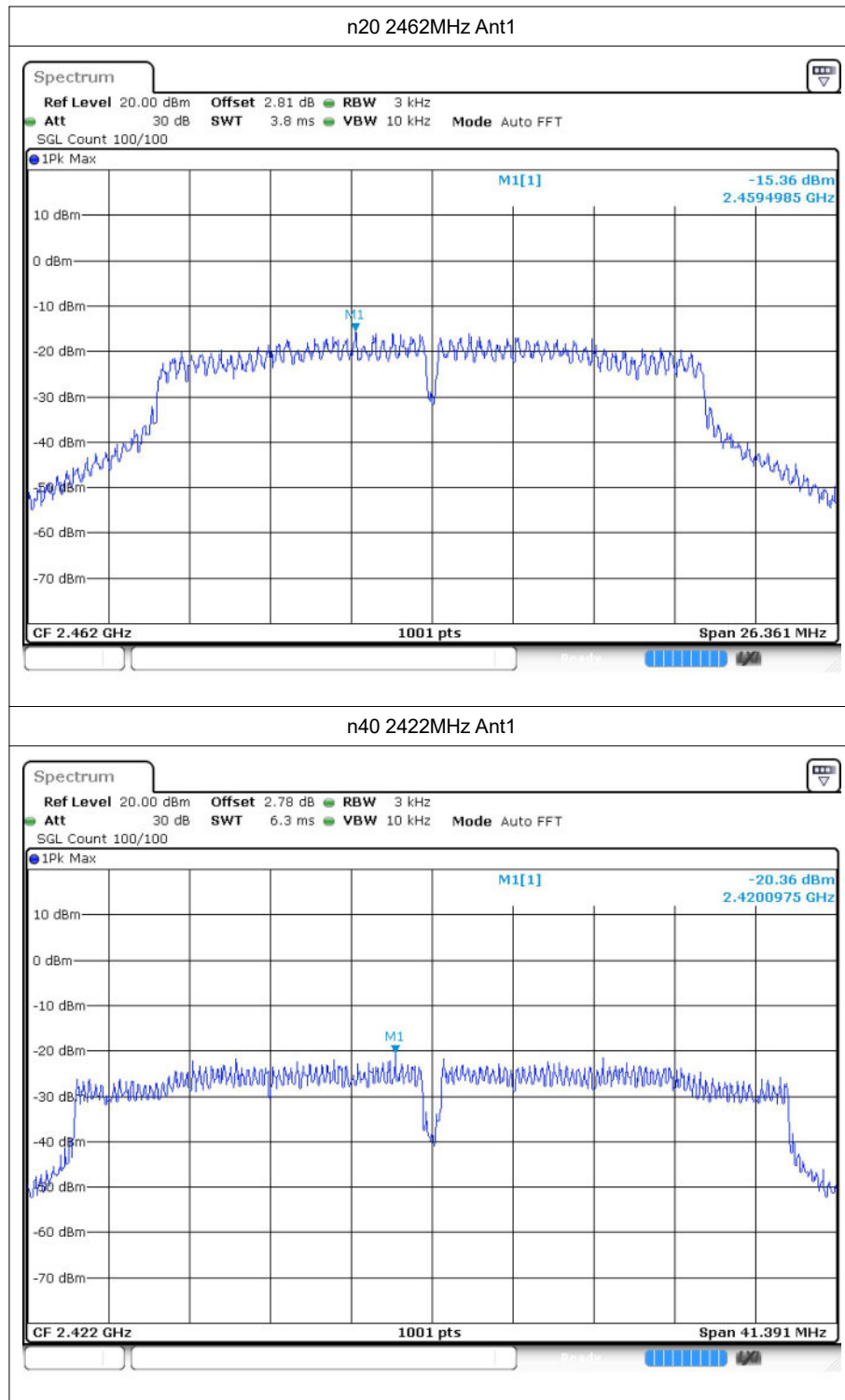
4.2 Test Graphs

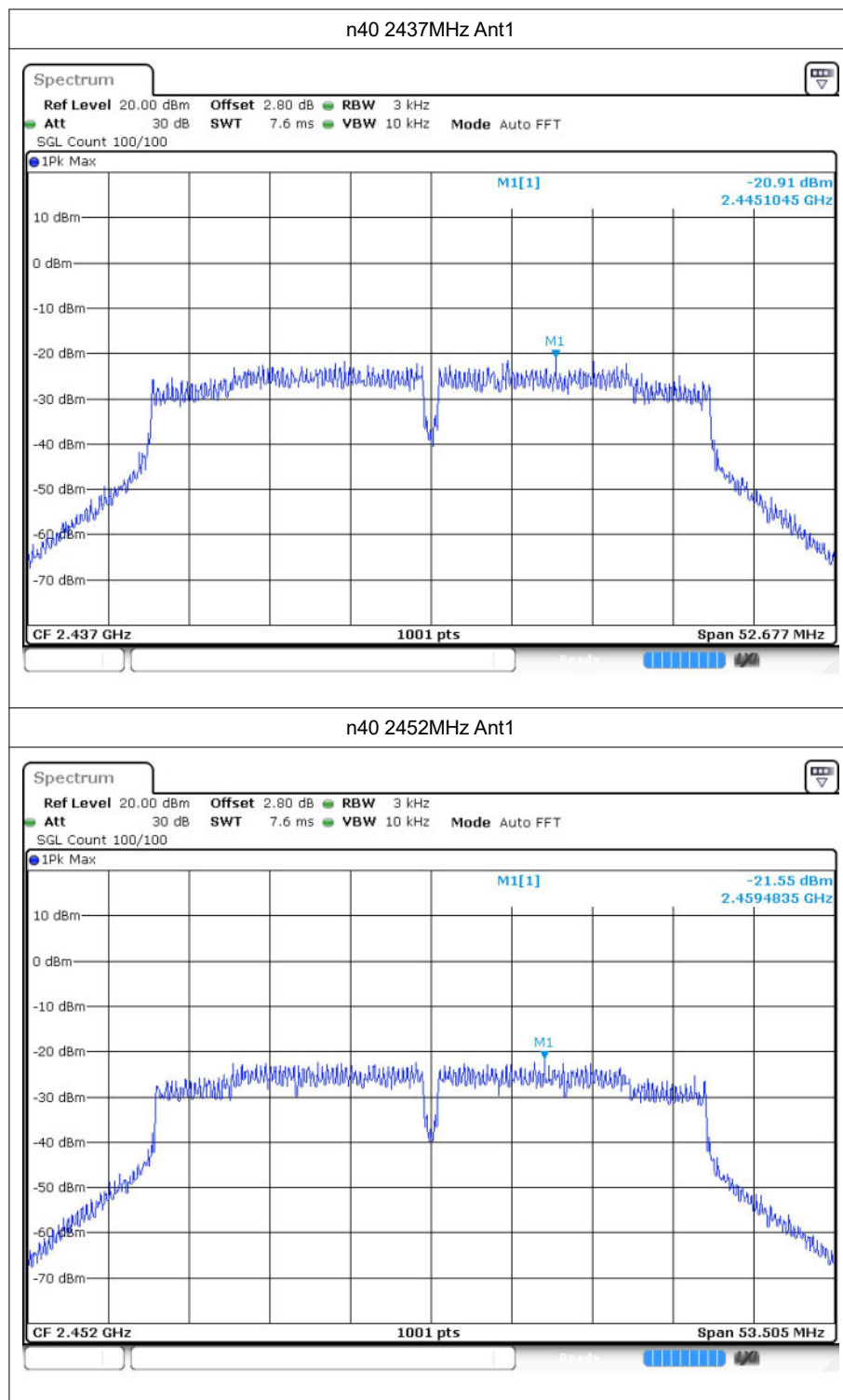


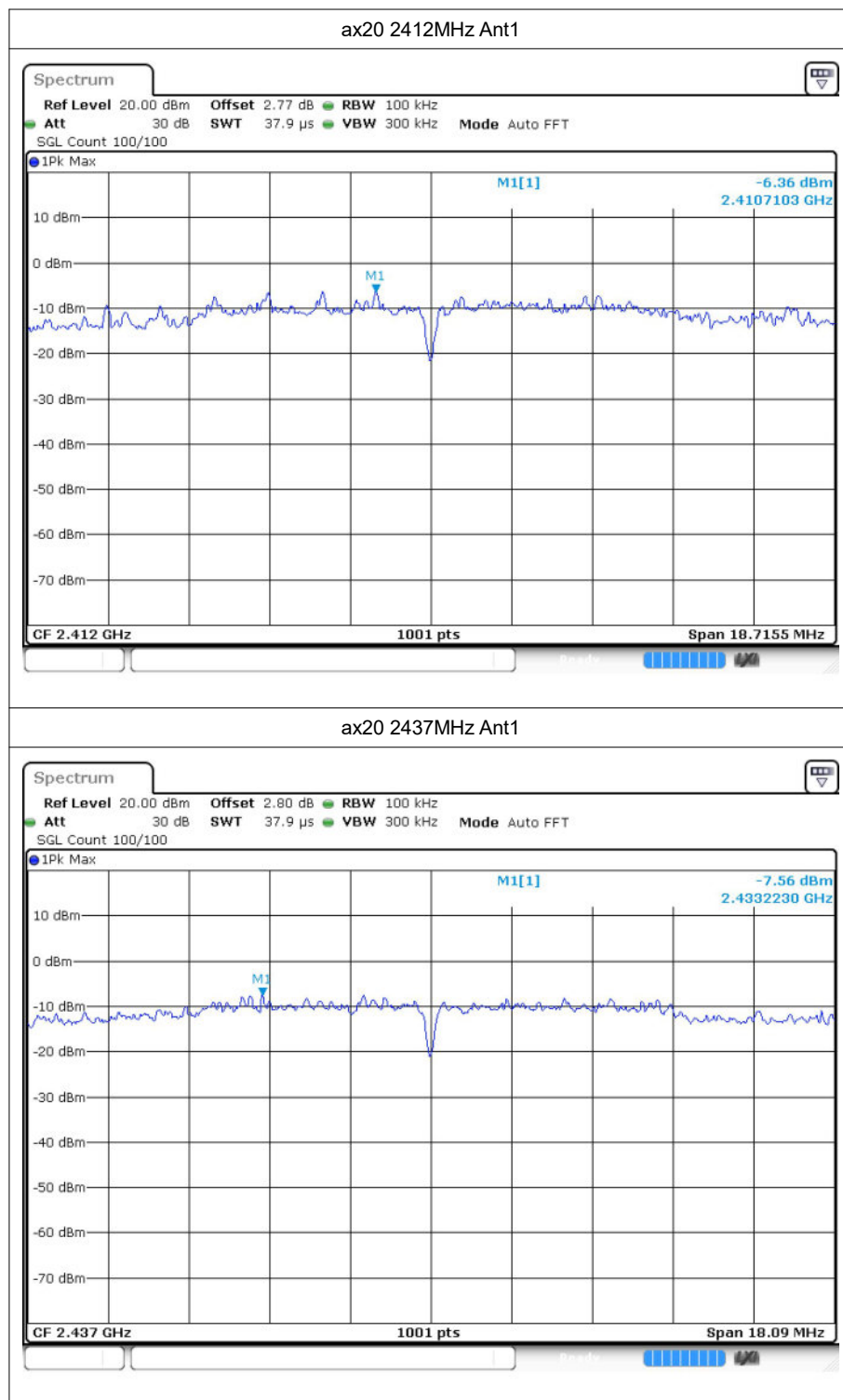


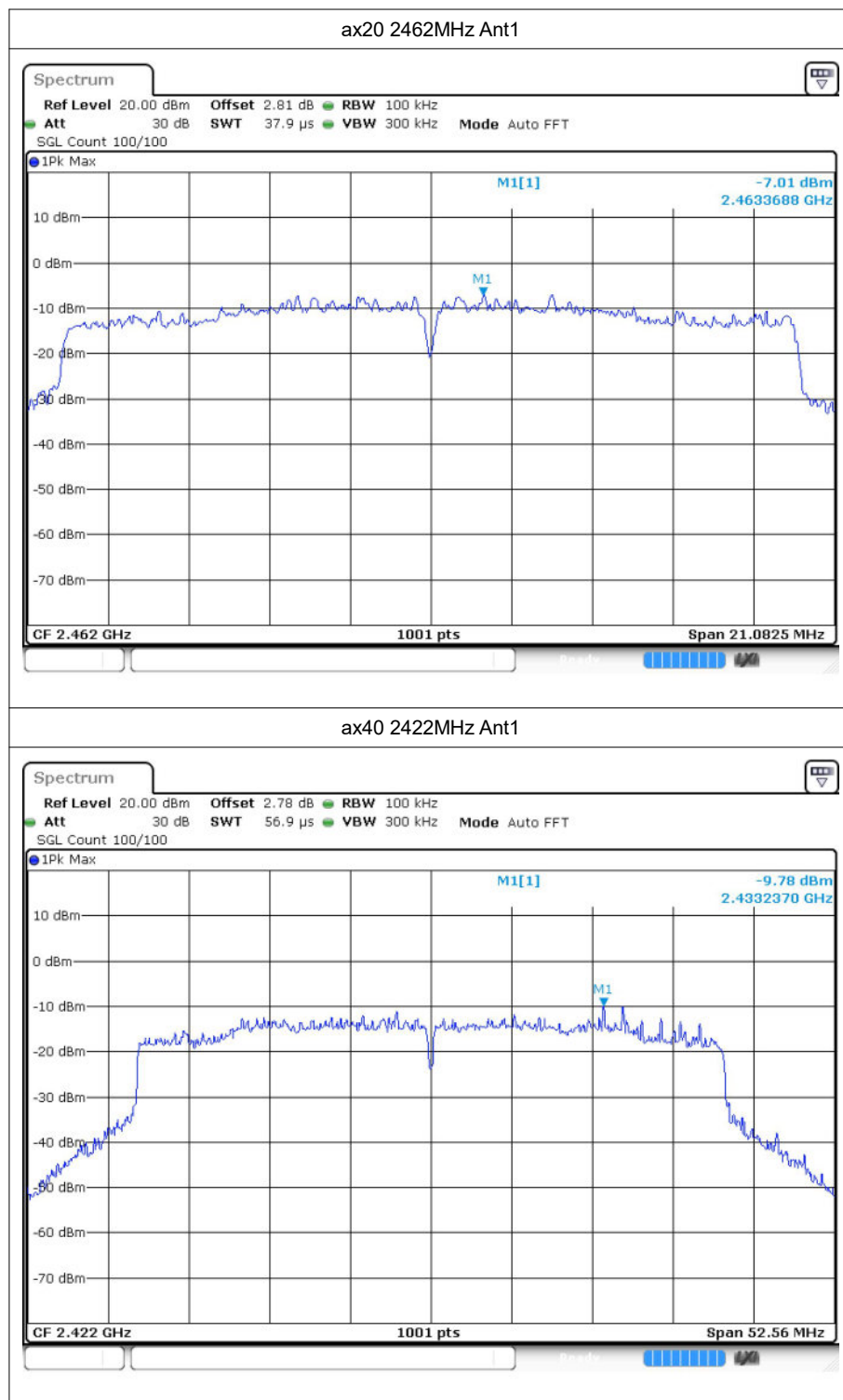


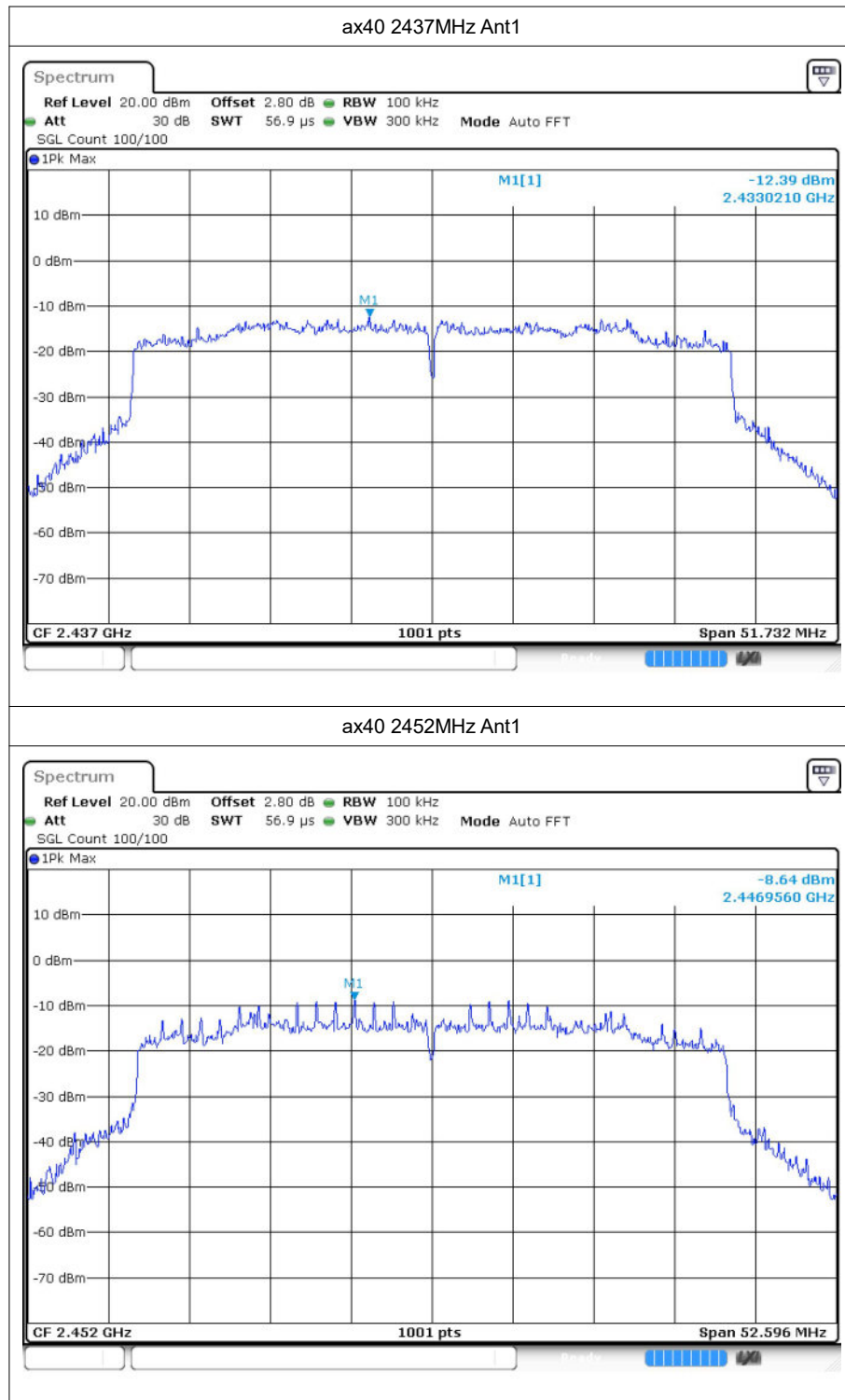














5 Band Edge

5.1 Test Result

Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
b	2412	Ant1	-53.88	-20	Pass
b	2462	Ant1	-56.82	-20	Pass
g	2412	Ant1	-52.42	-20	Pass
g	2462	Ant1	-50.87	-20	Pass
n20	2412	Ant1	-53.89	-20	Pass
n20	2462	Ant1	-51.48	-20	Pass
n40	2422	Ant1	-44.19	-20	Pass
n40	2452	Ant1	-45.43	-20	Pass
ax20	2412	Ant1	-51.46	-20	Pass
ax20	2462	Ant1	-51.64	-20	Pass
ax40	2422	Ant1	-45.99	-20	Pass
ax40	2452	Ant1	-45.47	-20	Pass

5.2 Test Graphs

