



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



Contents

	Page
COVER PAGE	
1 Duty Cycle	3
1.1 Test Result	3
1.2 Test Graphs	4
2 Maximum Conducted Output Power	13
2.1 Test Result	13
3 -6dB Bandwidth	14
3.1 Test Result	14
3.2 Test Graphs	15
4 Maximum Power Spectral Density Level	24
4.1 Test Result	24
4.2 Test Graphs	25
5 Band Edge	34
5.1 Test Result	34
5.2 Test Graphs	35
6 Conducted RF Spurious Emission	47
6.1 Test Result	47
6.2 Test Graphs	48
7 Restrict Band	66
7.1 Test Result	66
7.2 Test Graphs	68

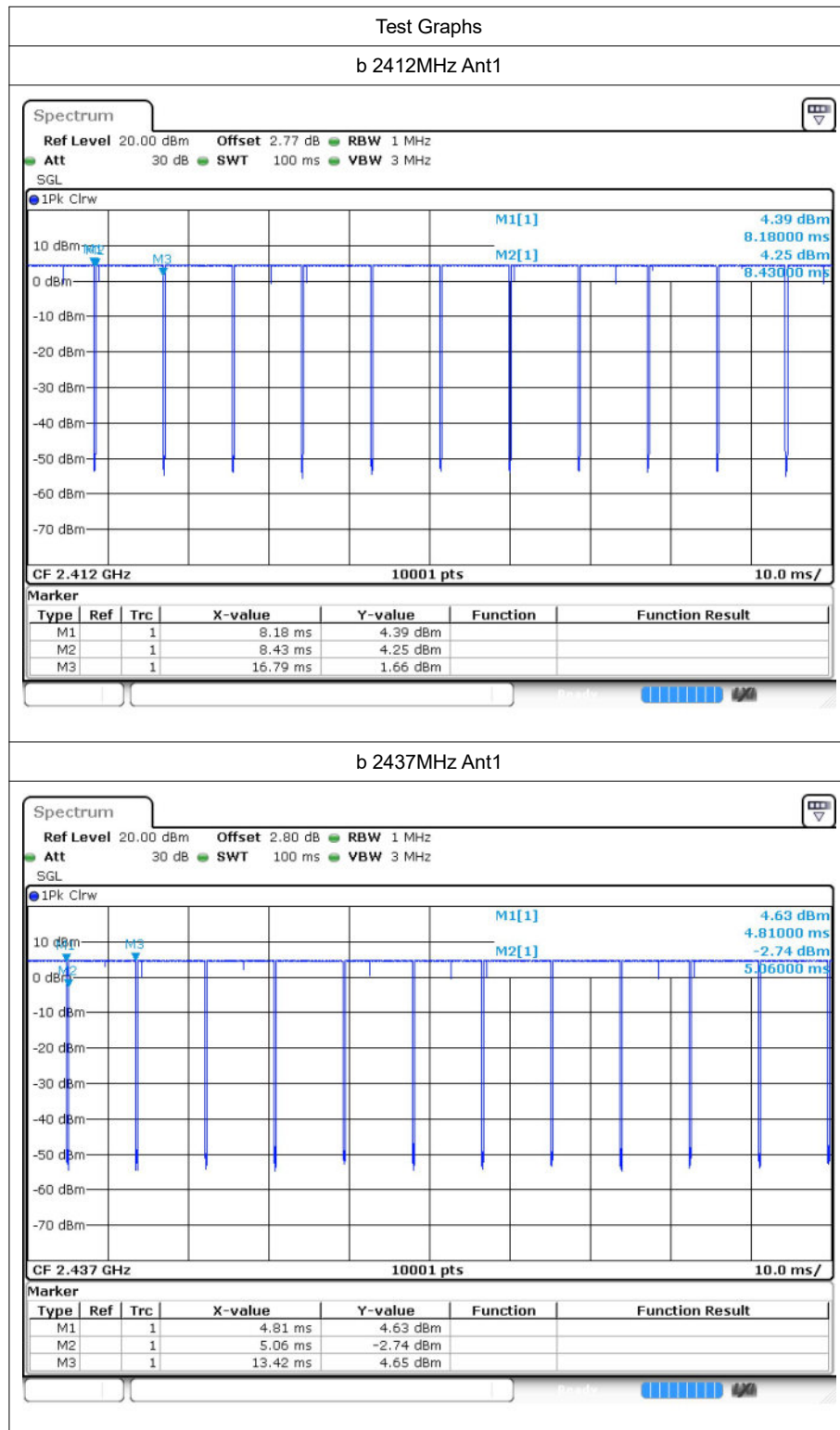


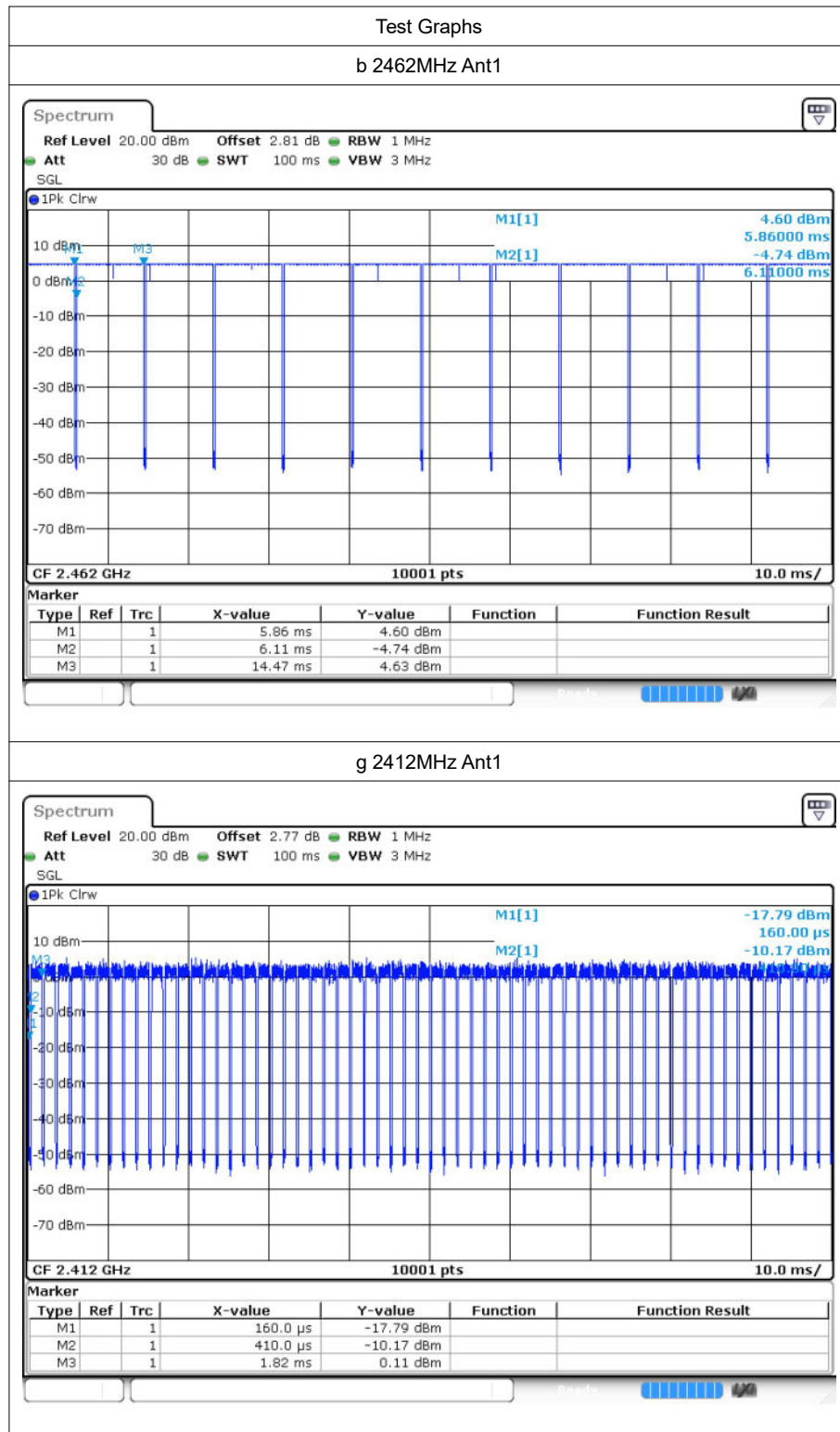
1 Duty Cycle

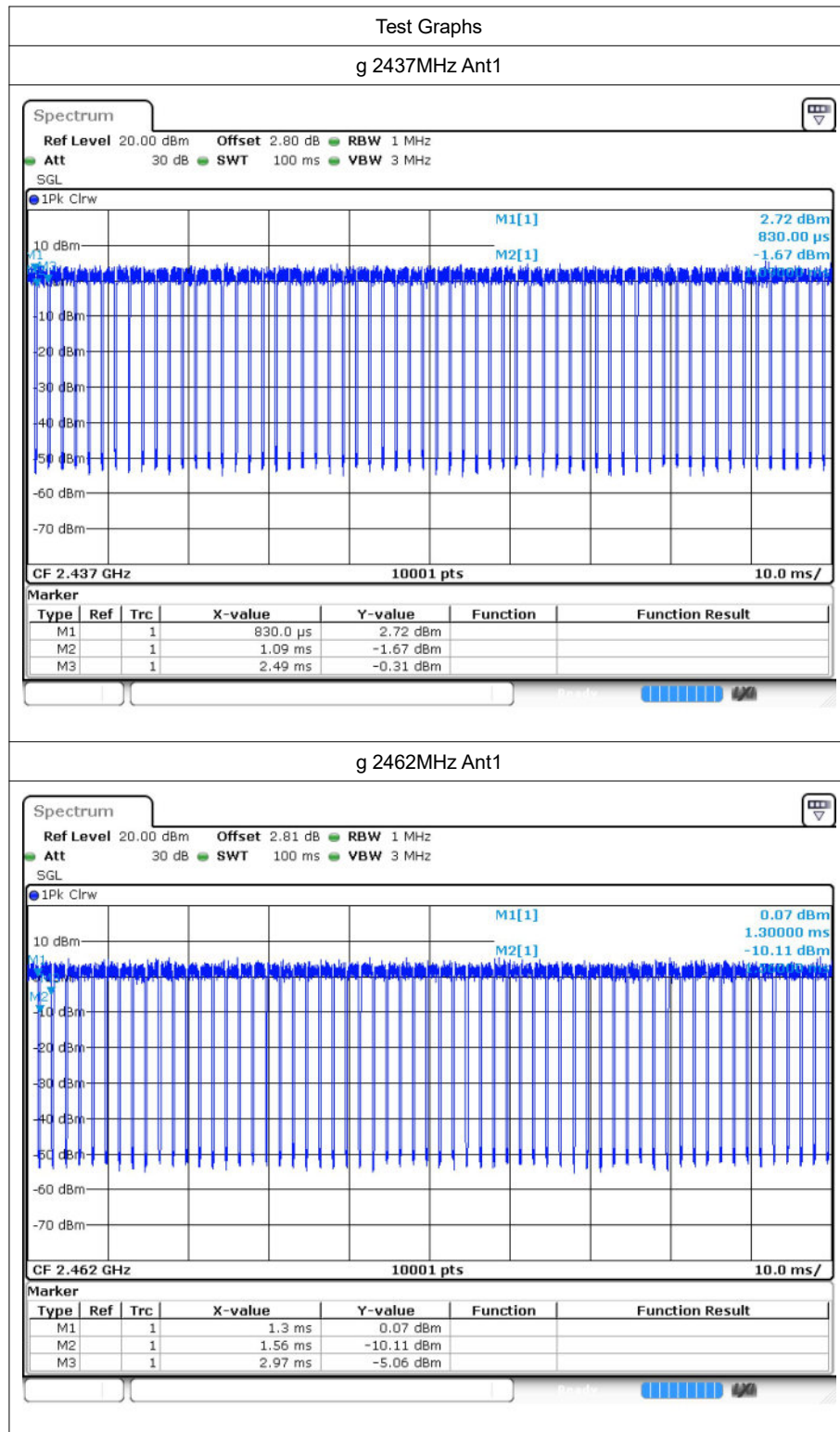
1.1 Test Result

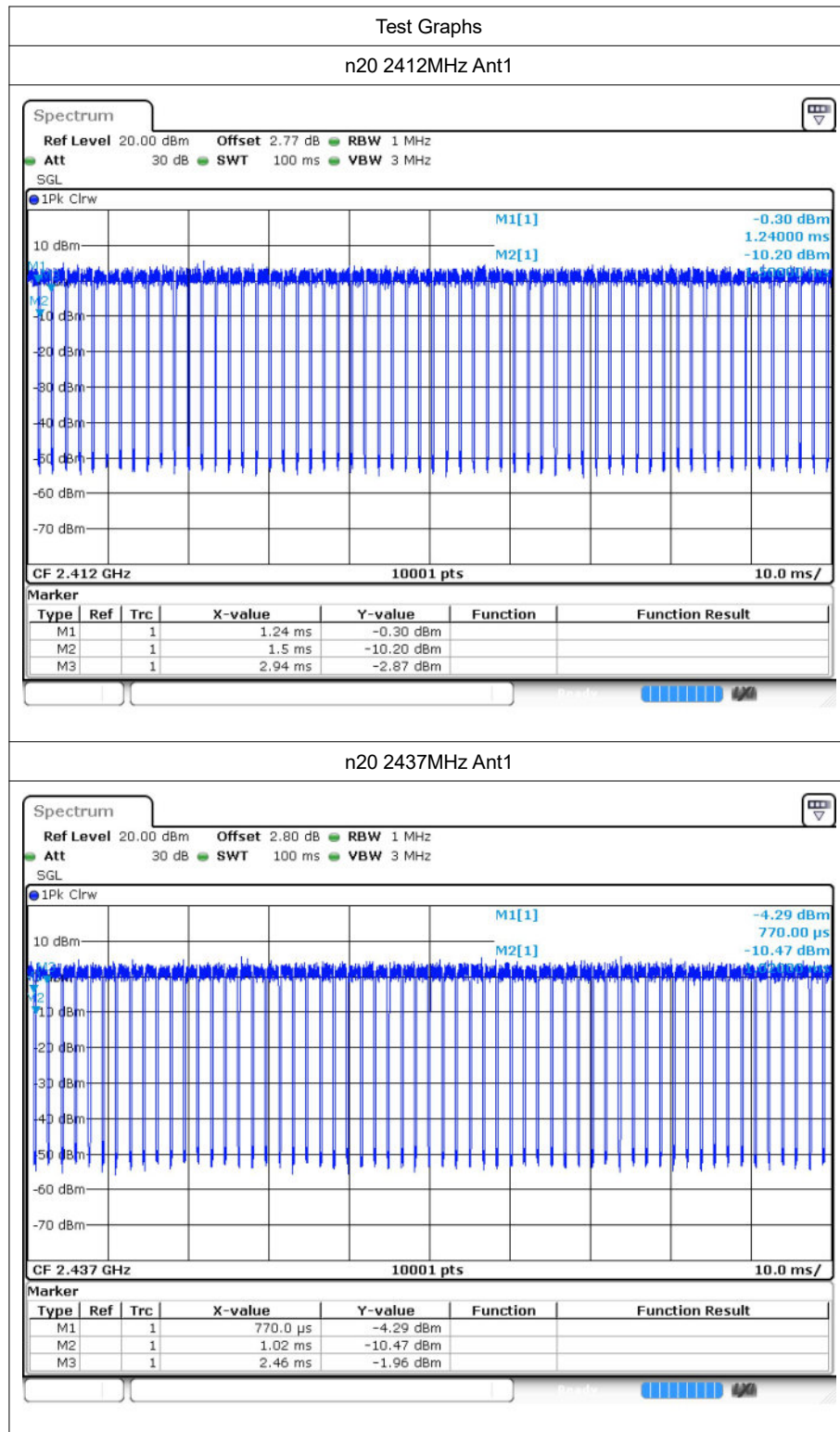
Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor	1/T (kHz)
b	2412	Ant1	97.32	0.12	0.12
b	2437	Ant1	97.09	0.13	0.12
b	2462	Ant1	97.33	0.12	0.12
g	2412	Ant1	85.27	0.69	0.71
g	2437	Ant1	85.37	0.69	0.71
g	2462	Ant1	85.42	0.68	0.71
n20	2412	Ant1	85.58	0.68	0.69
n20	2437	Ant1	85.6	0.68	0.69
n20	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

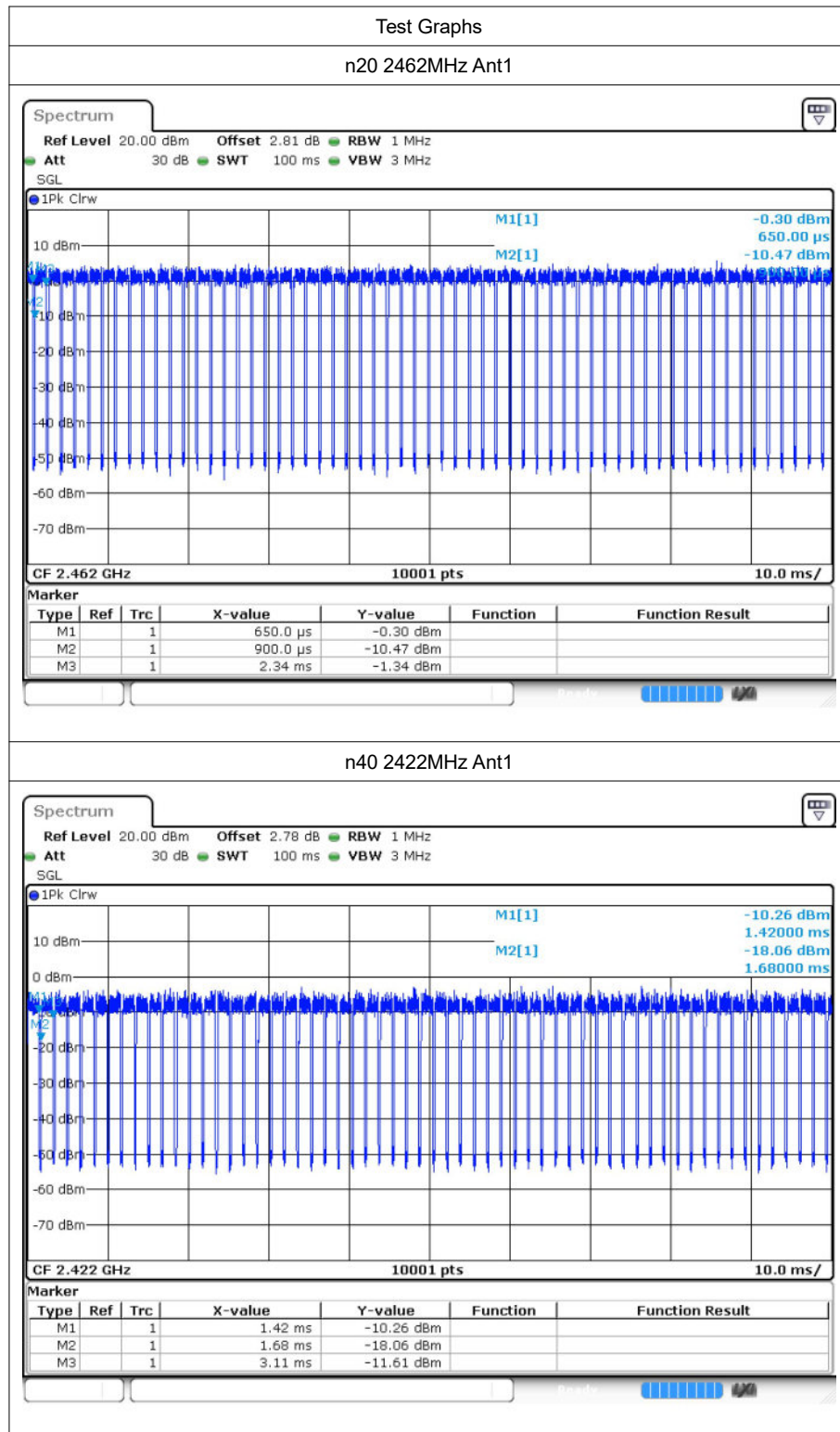
1.2 Test Graphs

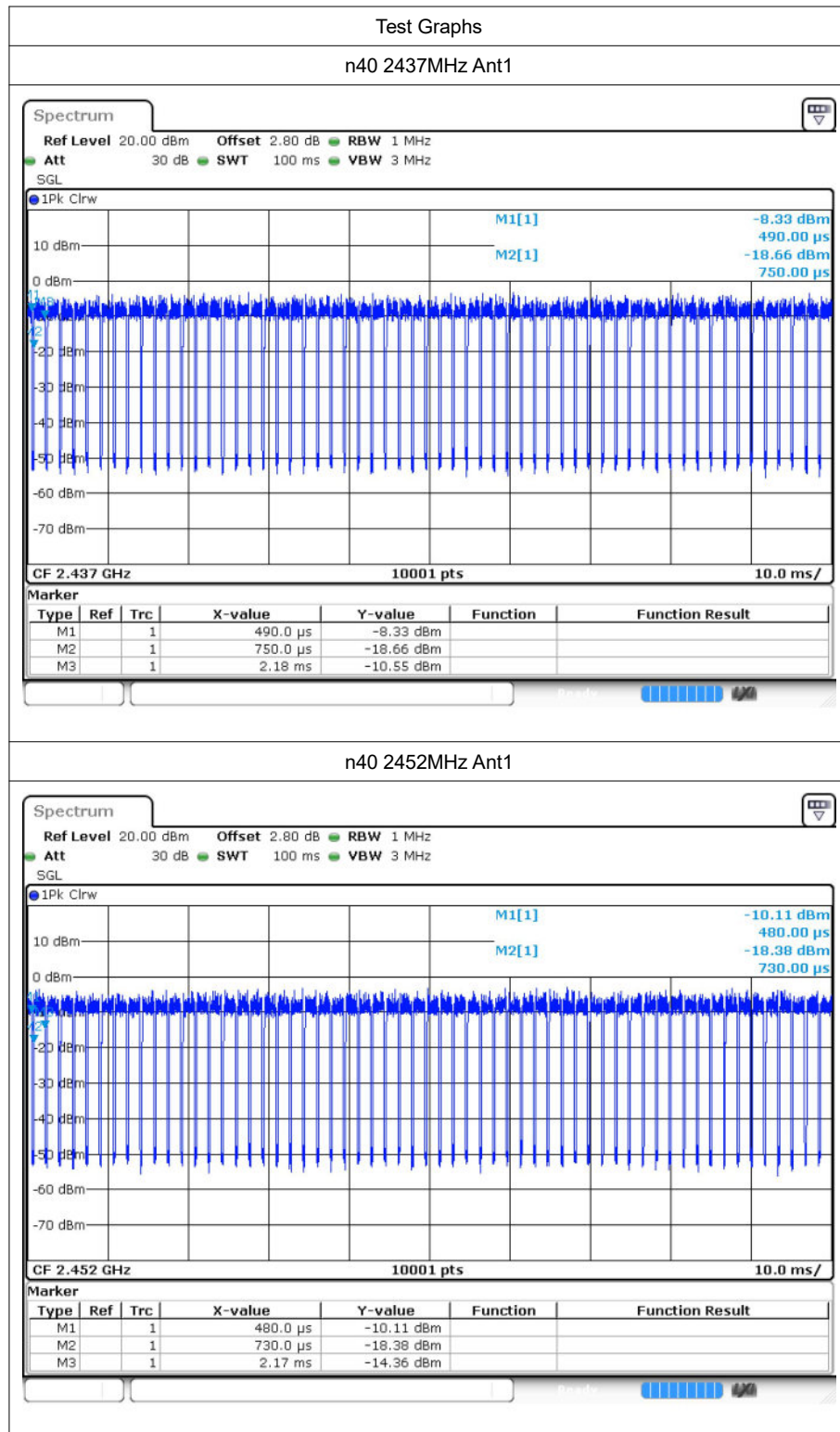






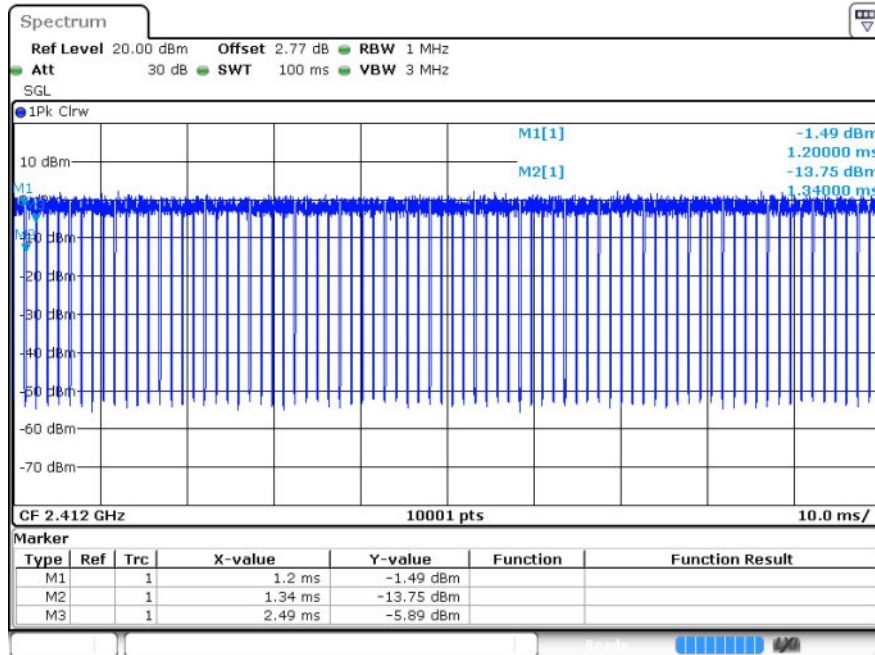




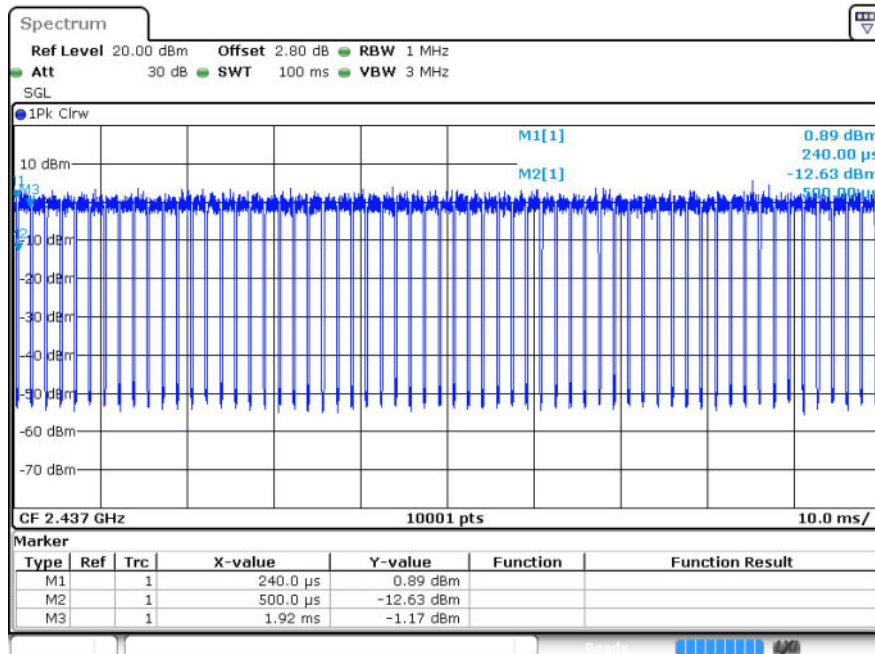


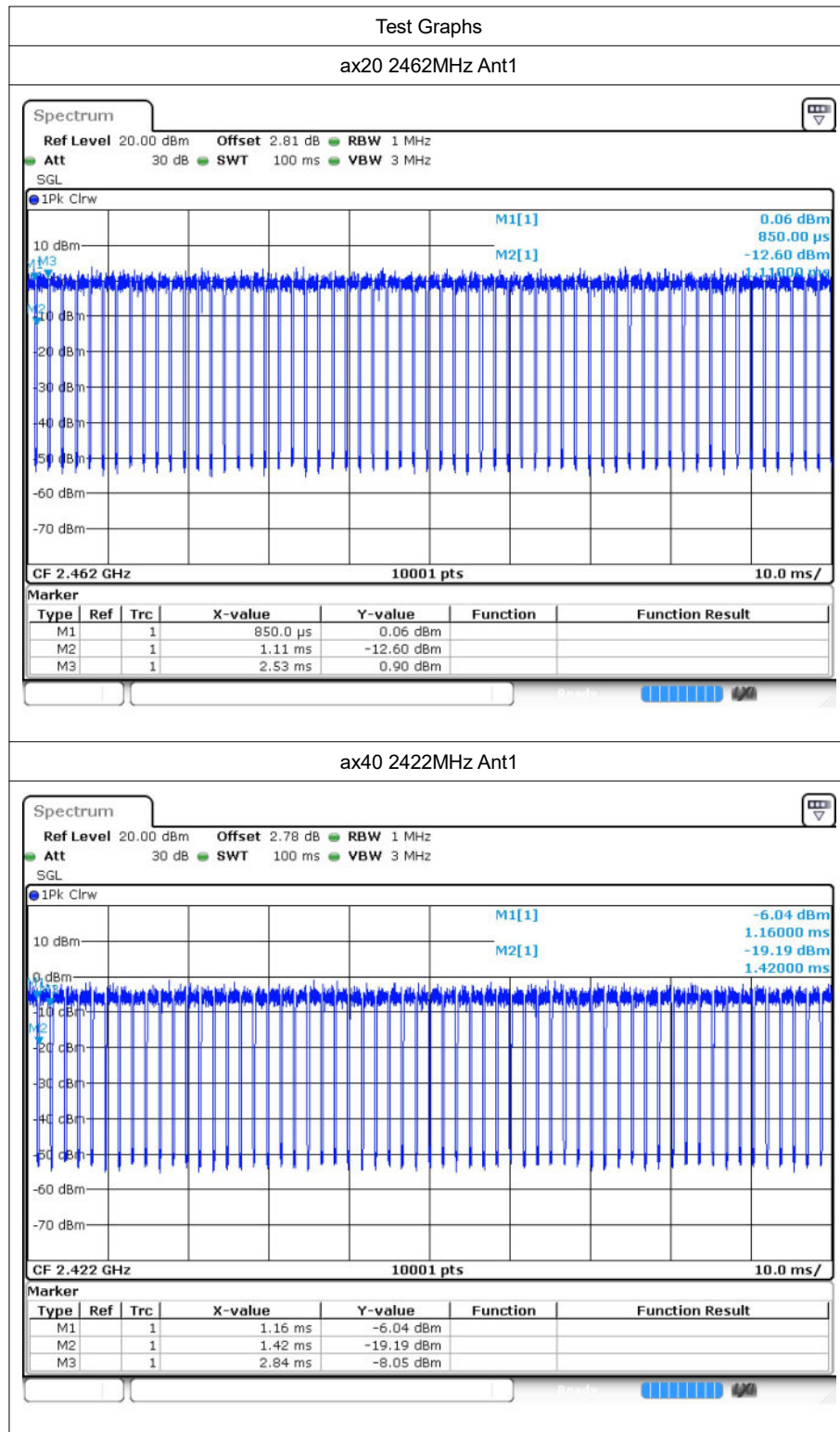
Test Graphs

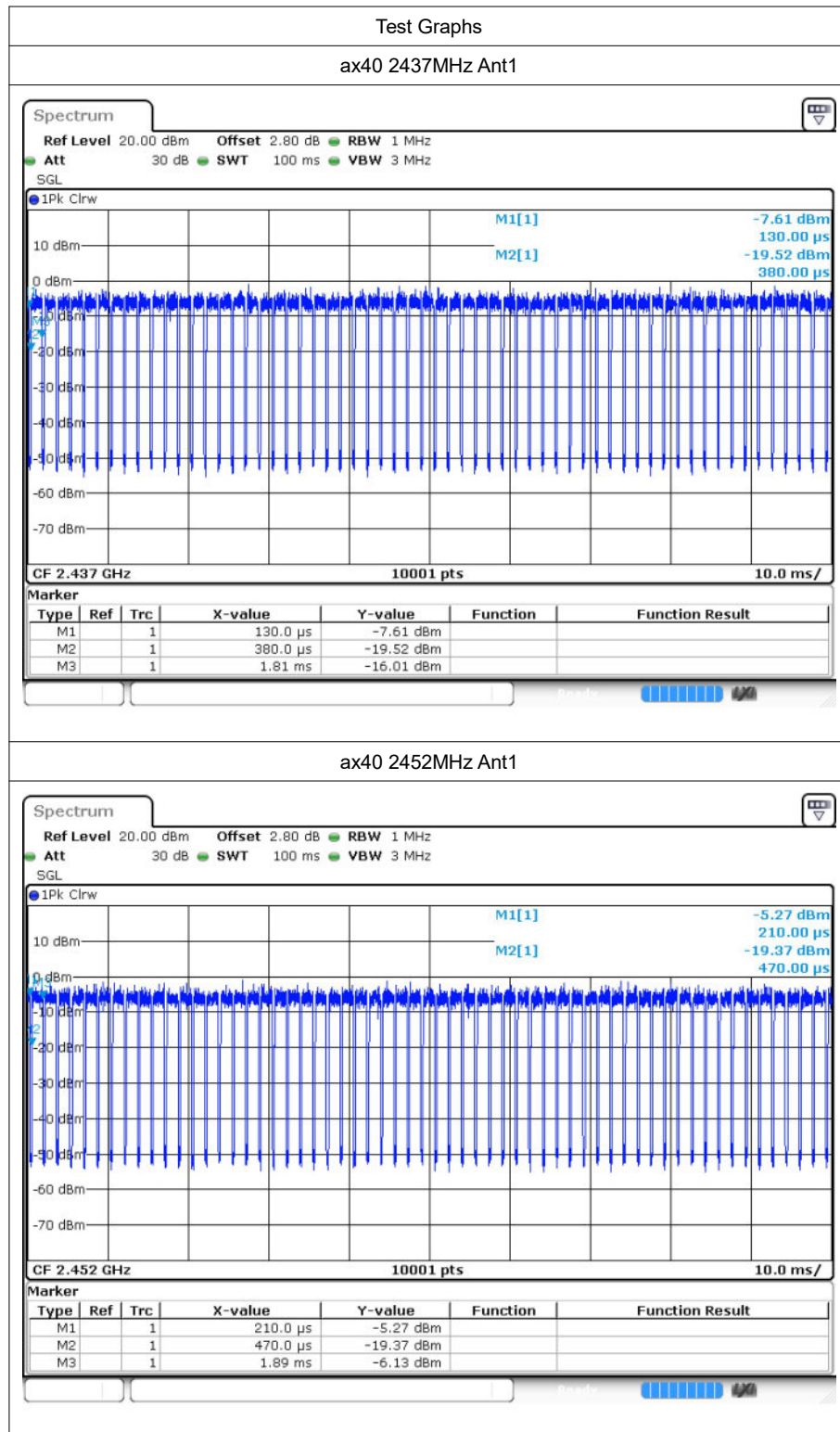
ax20 2412MHz Ant1



ax20 2437MHz Ant1









2 Maximum Conducted Output Power

2.1 Test Result

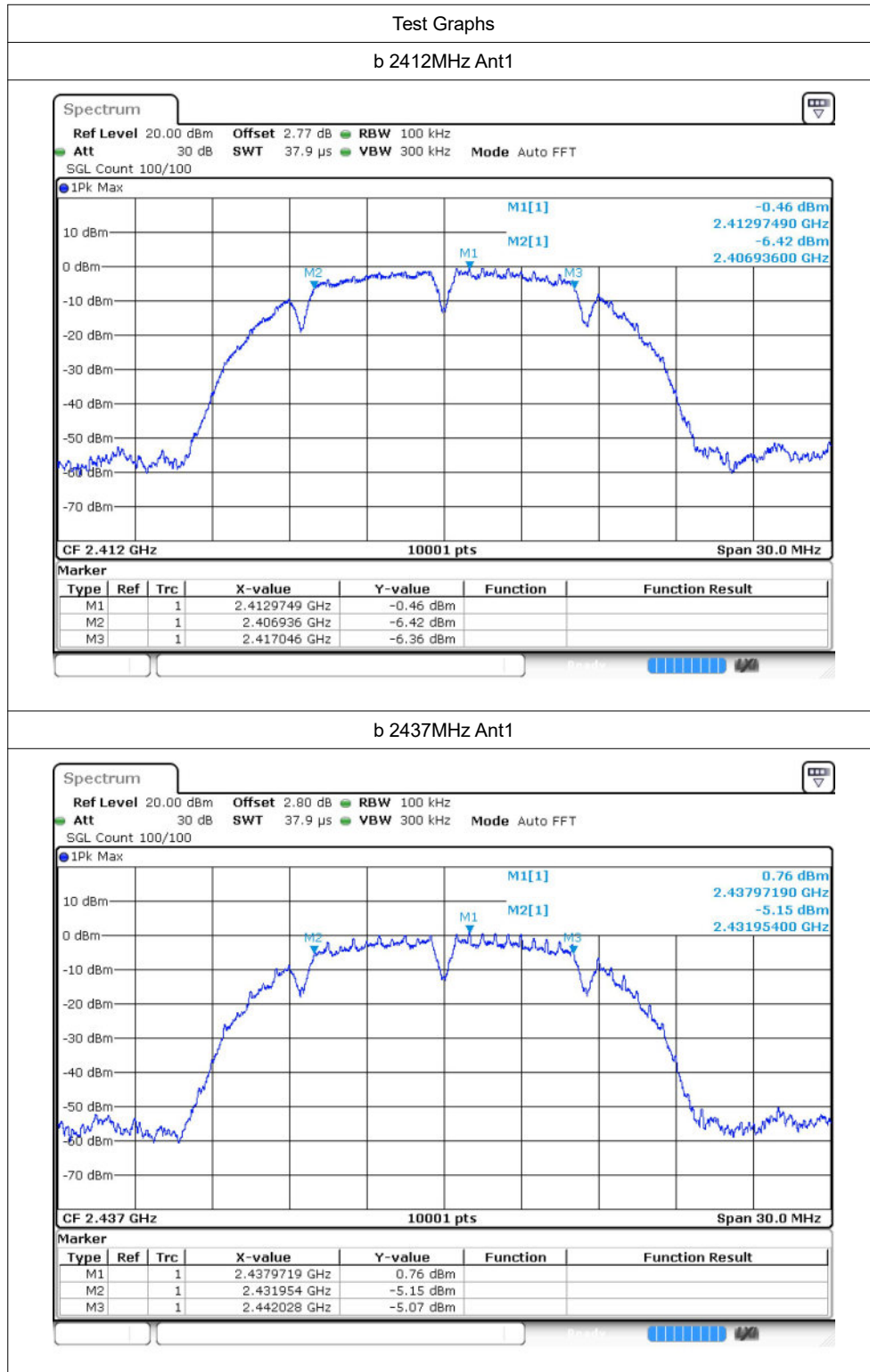
Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
b	2412	Ant1	14.97	30	Pass
b	2437	Ant1	15.03	30	Pass
b	2462	Ant1	15.11	30	Pass
g	2412	Ant1	14.57	30	Pass
g	2437	Ant1	14.76	30	Pass
g	2462	Ant1	14.66	30	Pass
n20	2412	Ant1	14.51	30	Pass
n20	2437	Ant1	14.57	30	Pass
n20	2462	Ant1	14.44	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

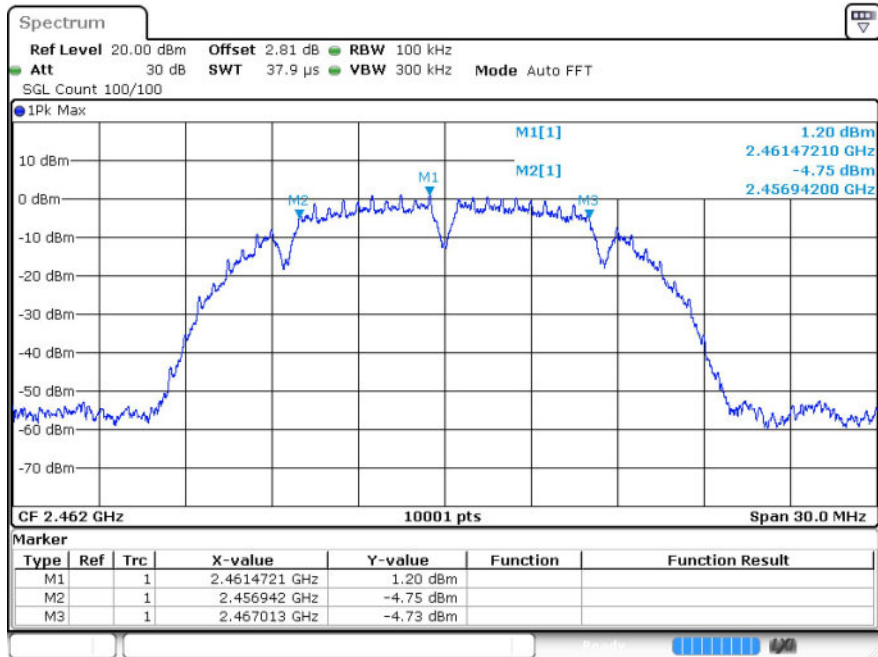
3.1 Test Result

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

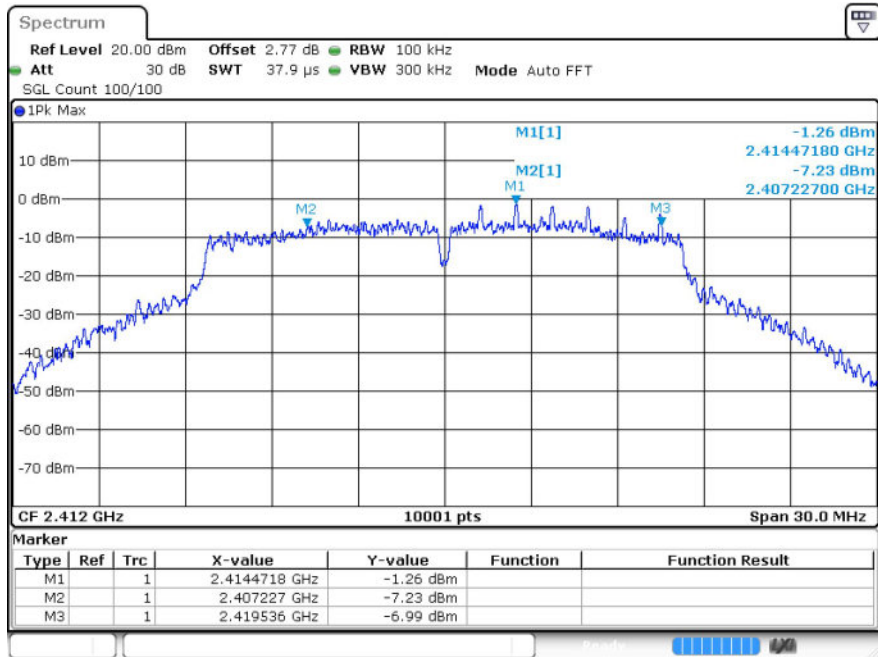
3.2 Test Graphs



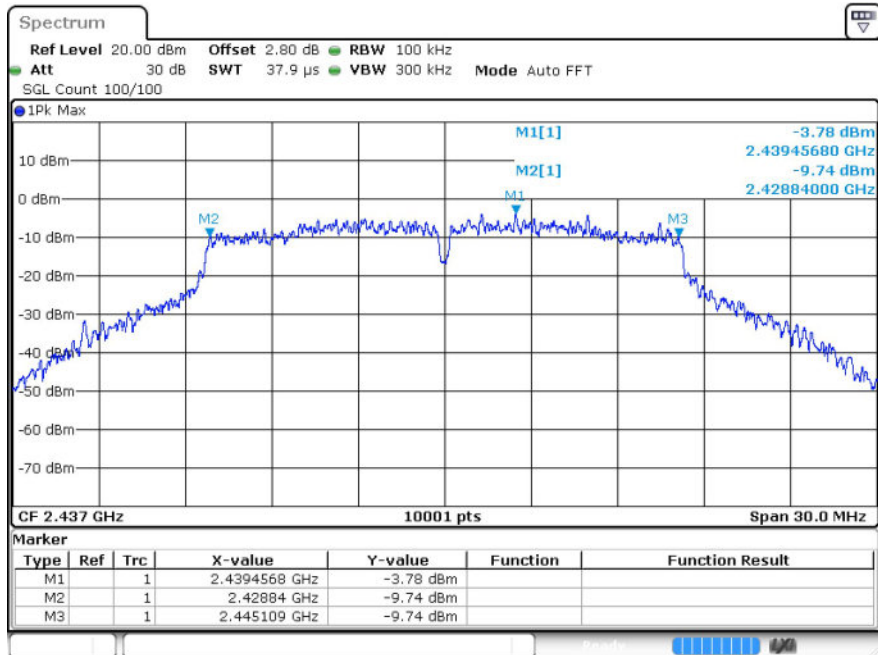
b 2462MHz Ant1



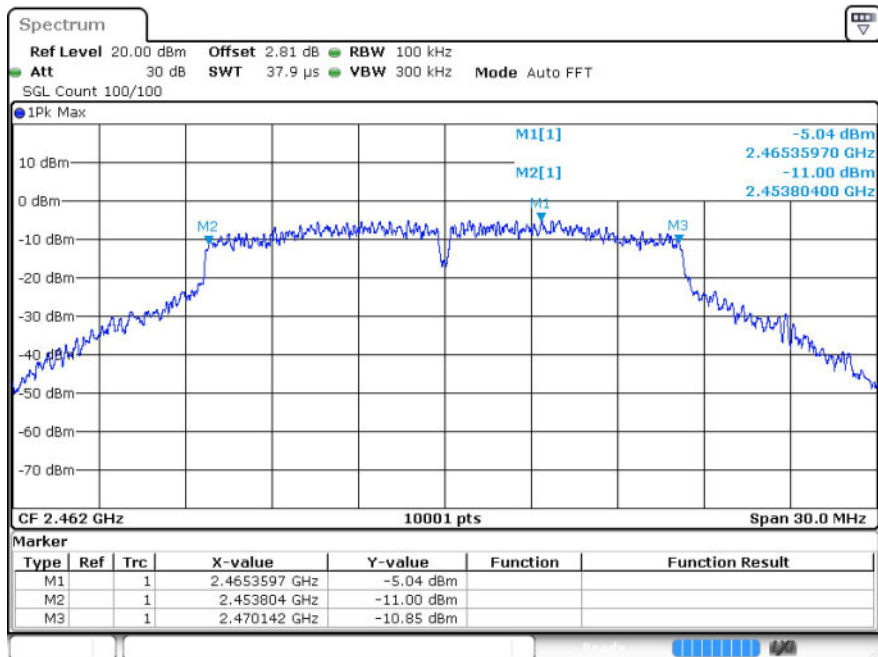
g 2412MHz Ant1



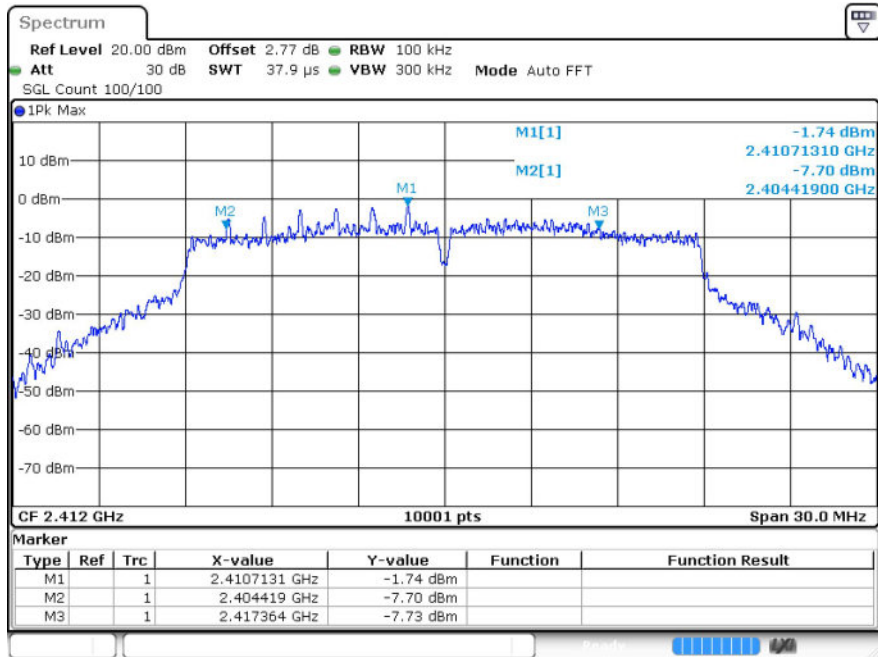
g 2437MHz Ant1



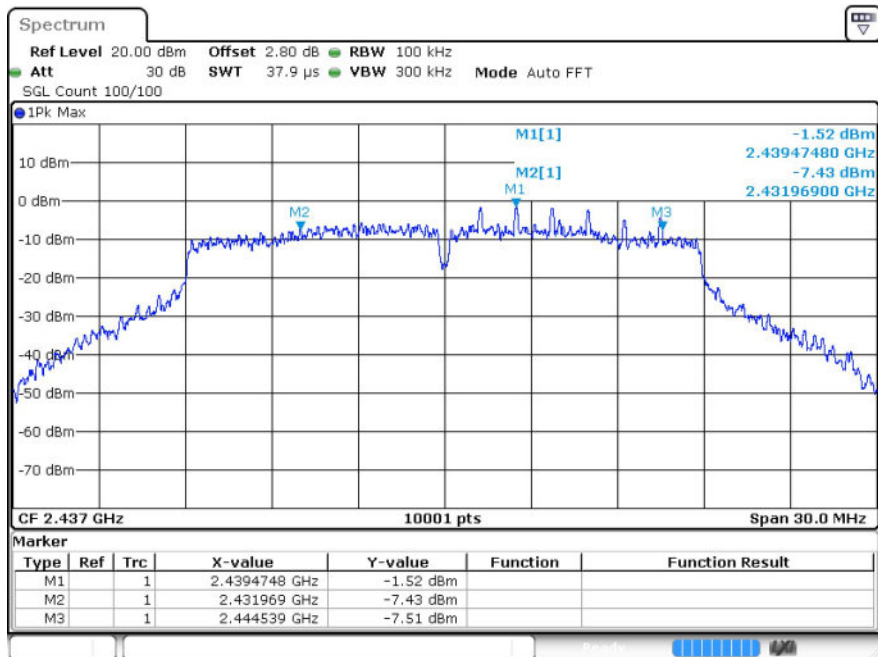
g 2462MHz Ant1

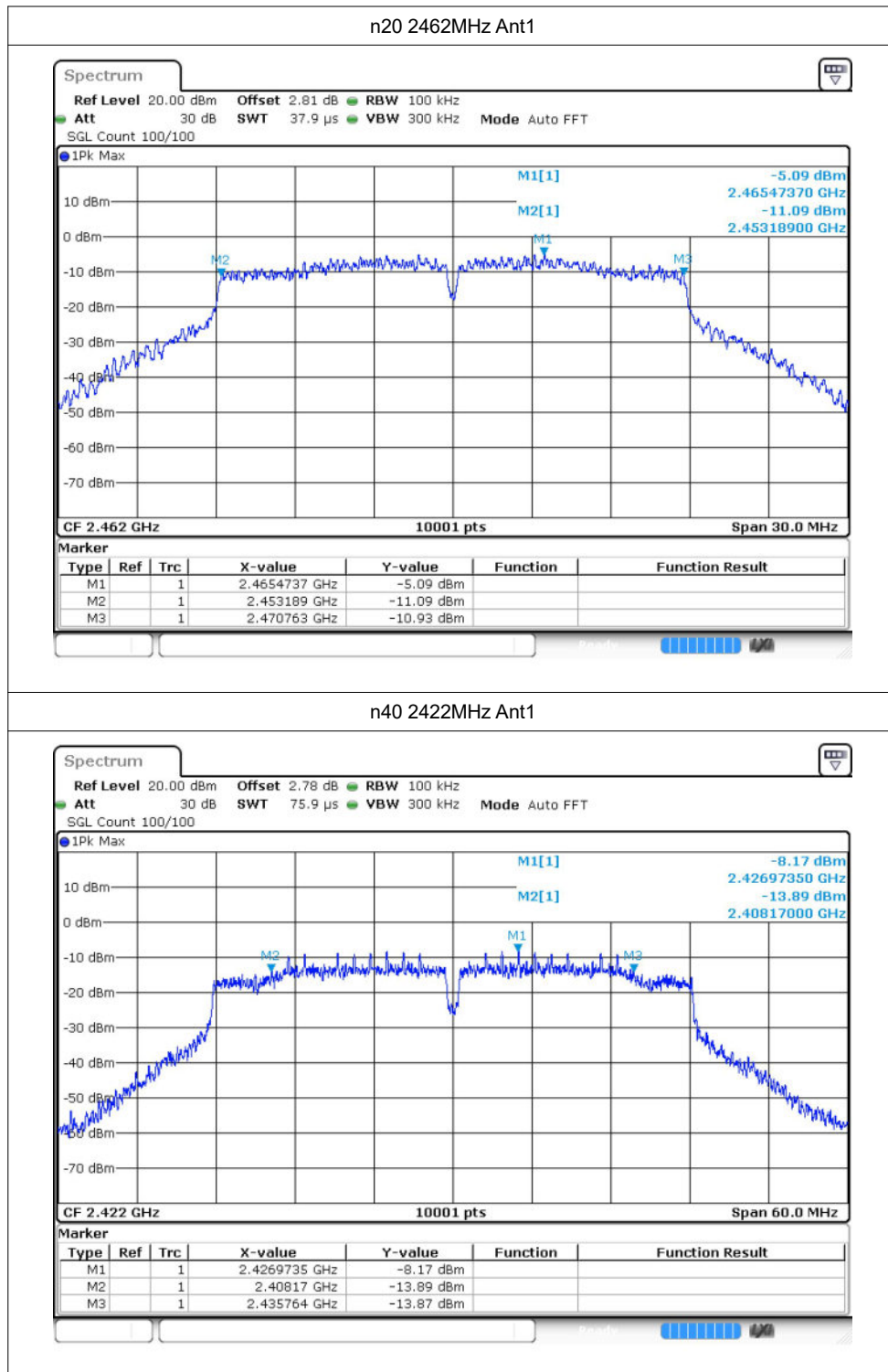


n20 2412MHz Ant1

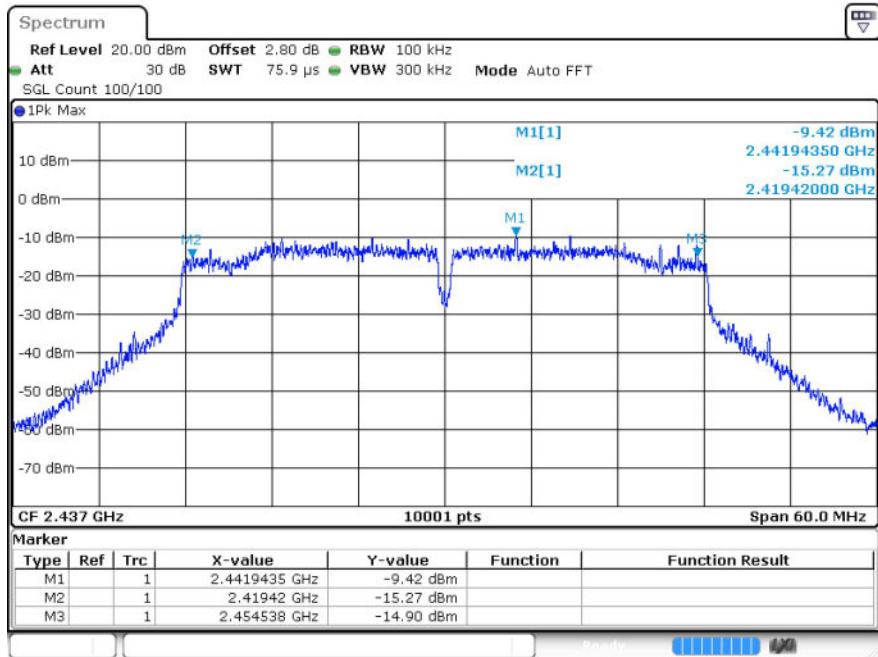


n20 2437MHz Ant1

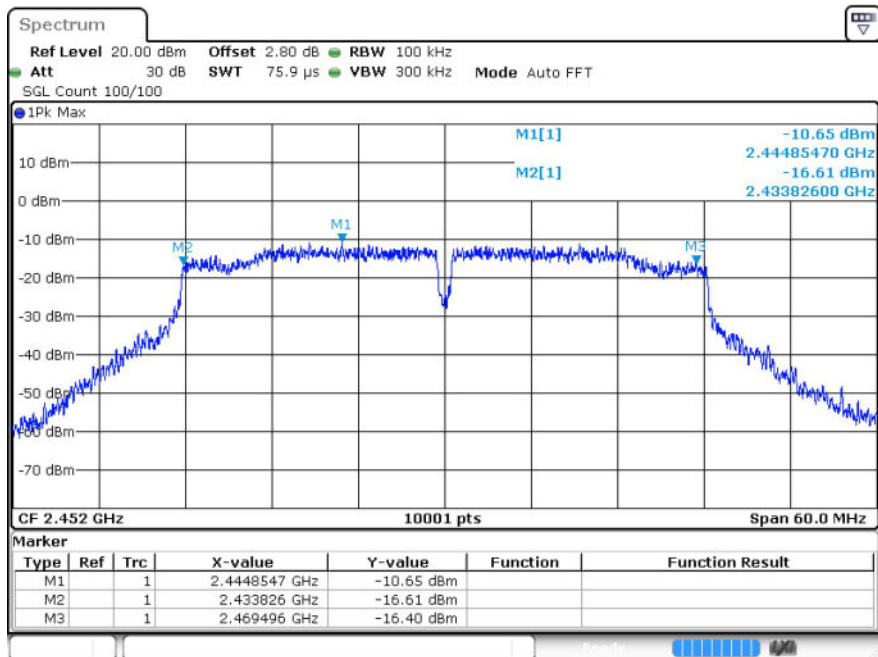


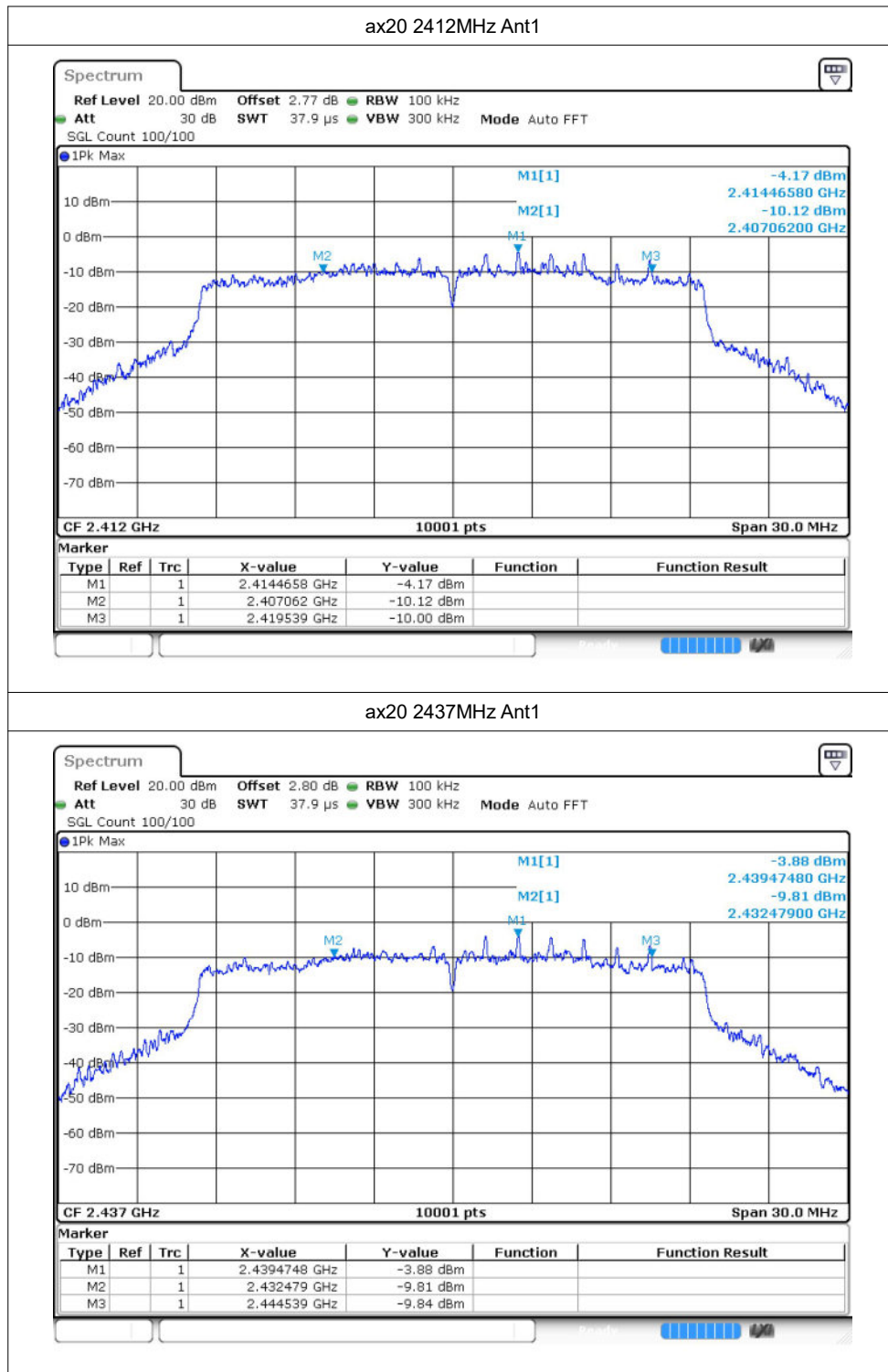


n40 2437MHz Ant1

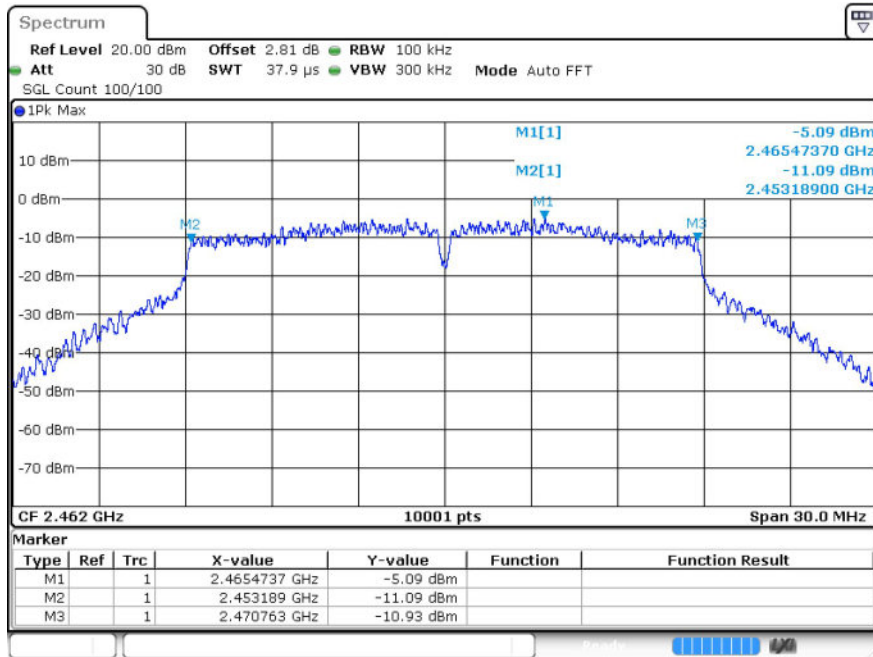


n40 2452MHz Ant1

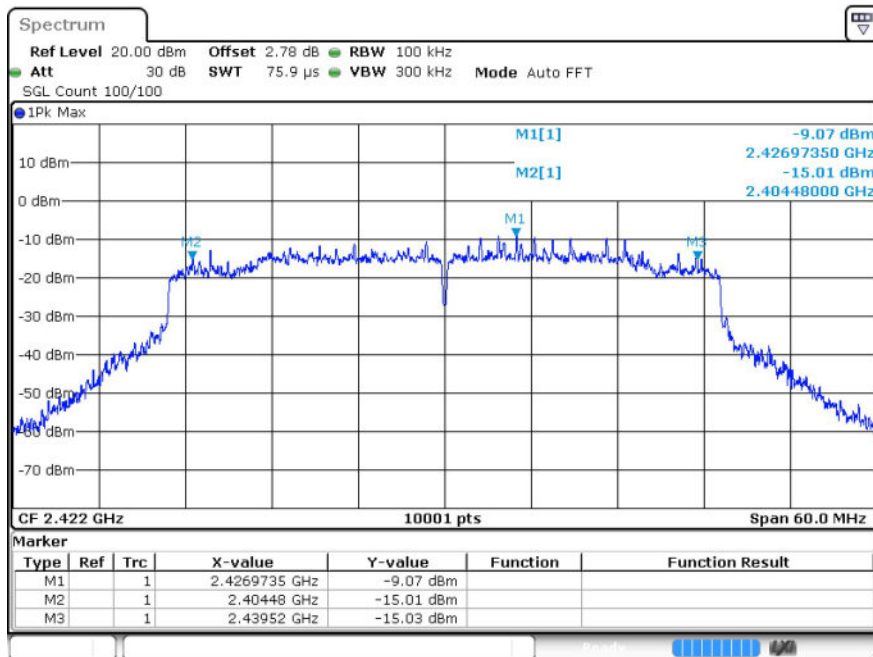




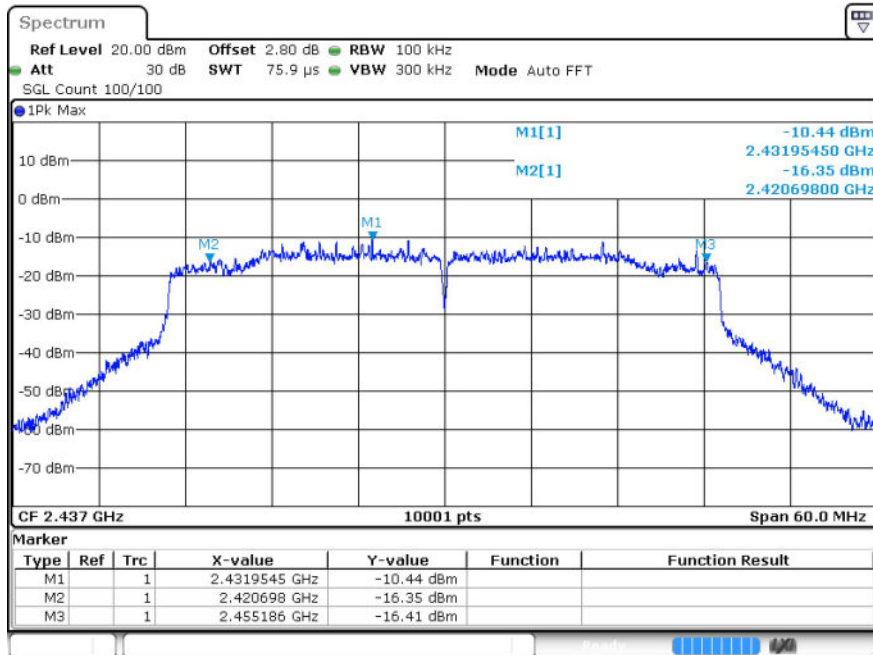
ax20 2462MHz Ant1



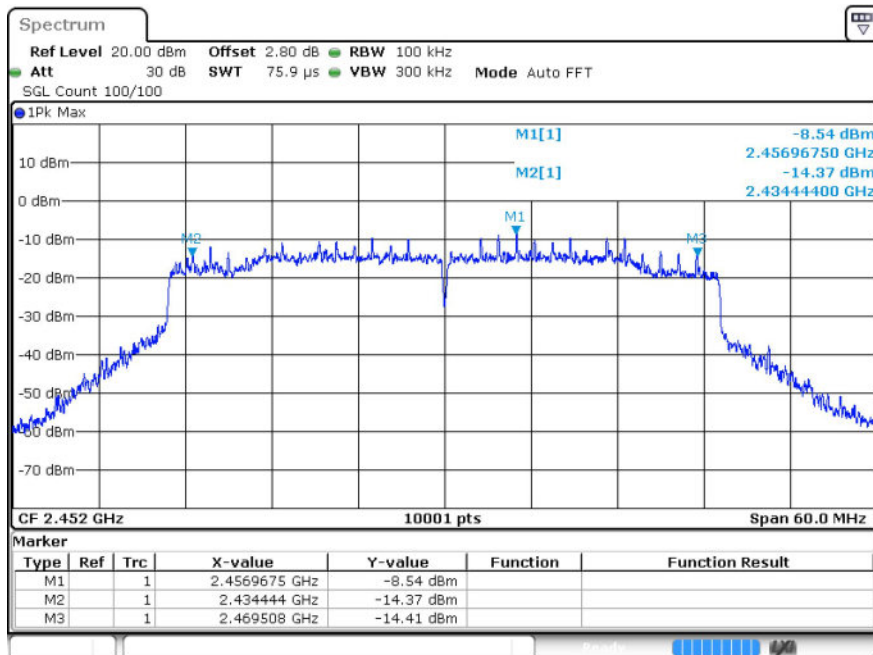
ax40 2422MHz Ant1



ax40 2437MHz Ant1



ax40 2452MHz Ant1

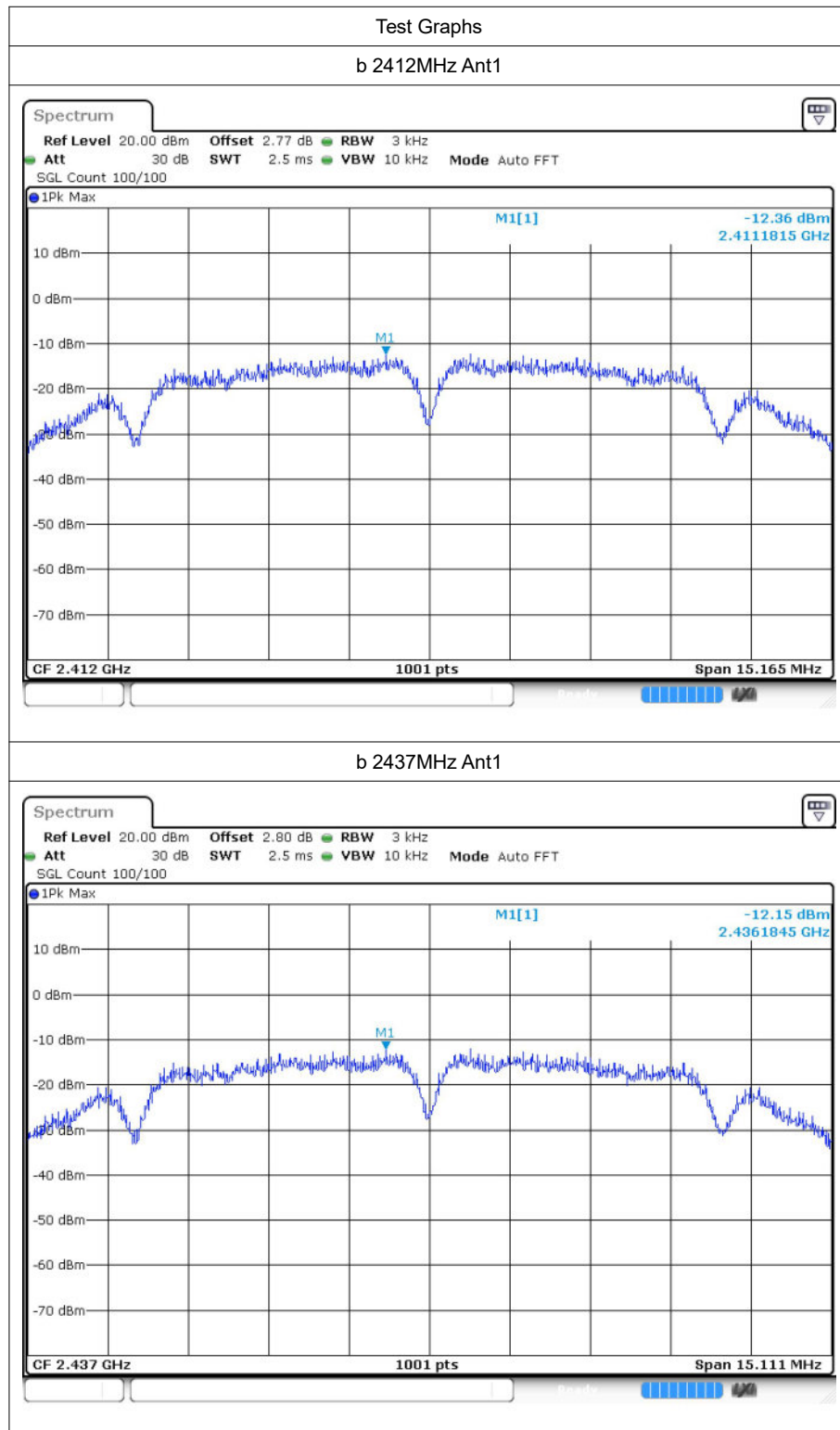


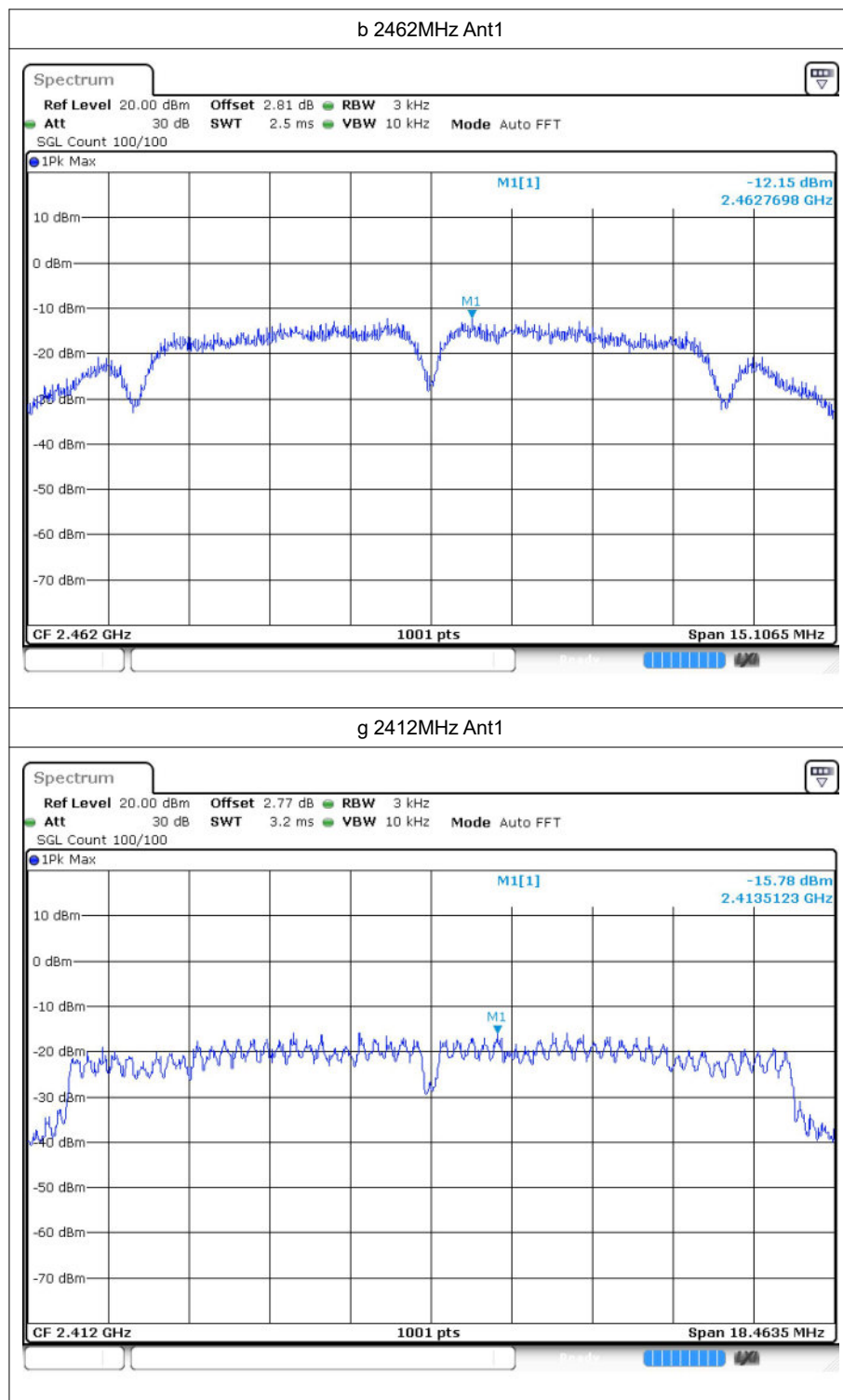
4 Maximum Power Spectral Density Level

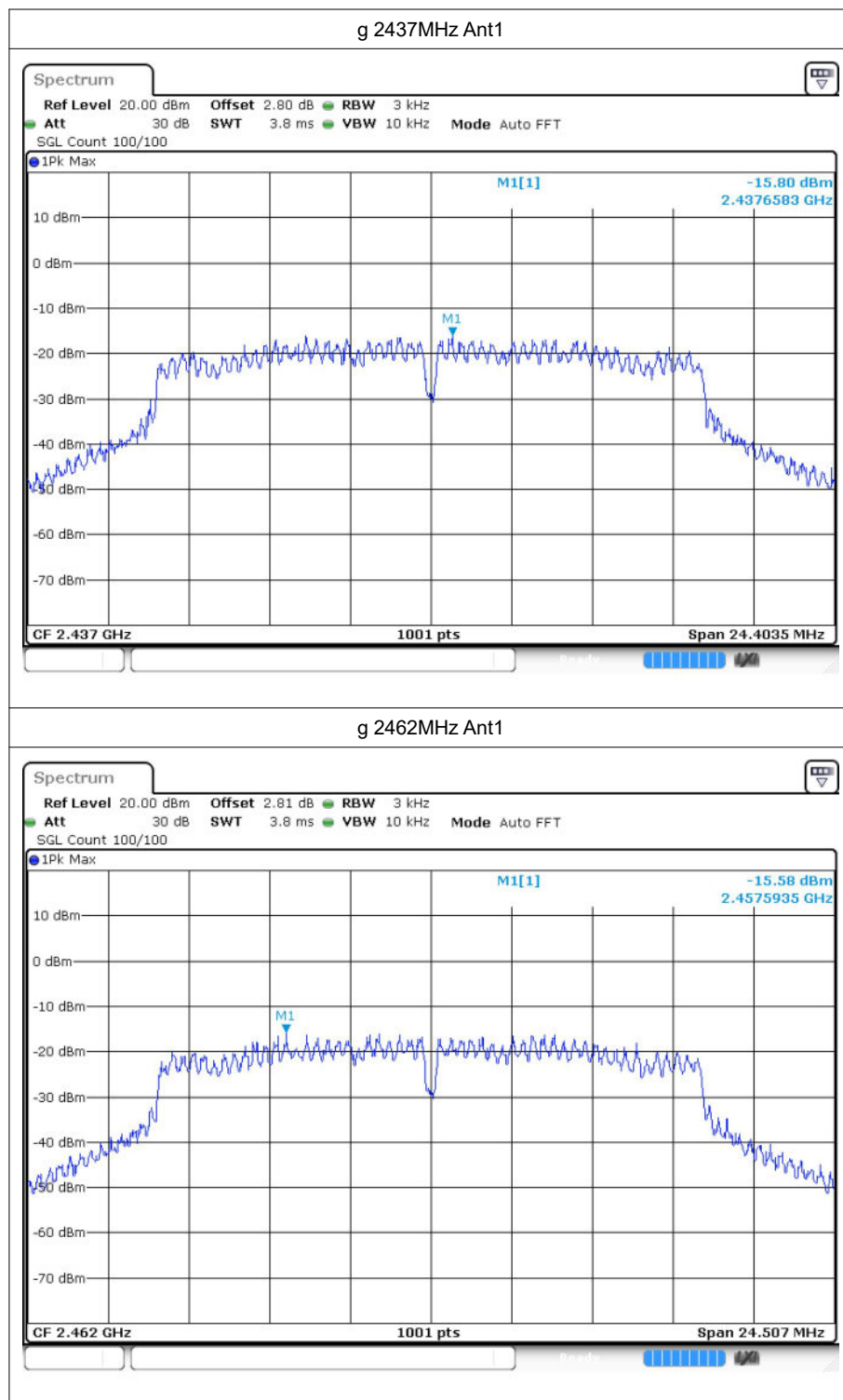
4.1 Test Result

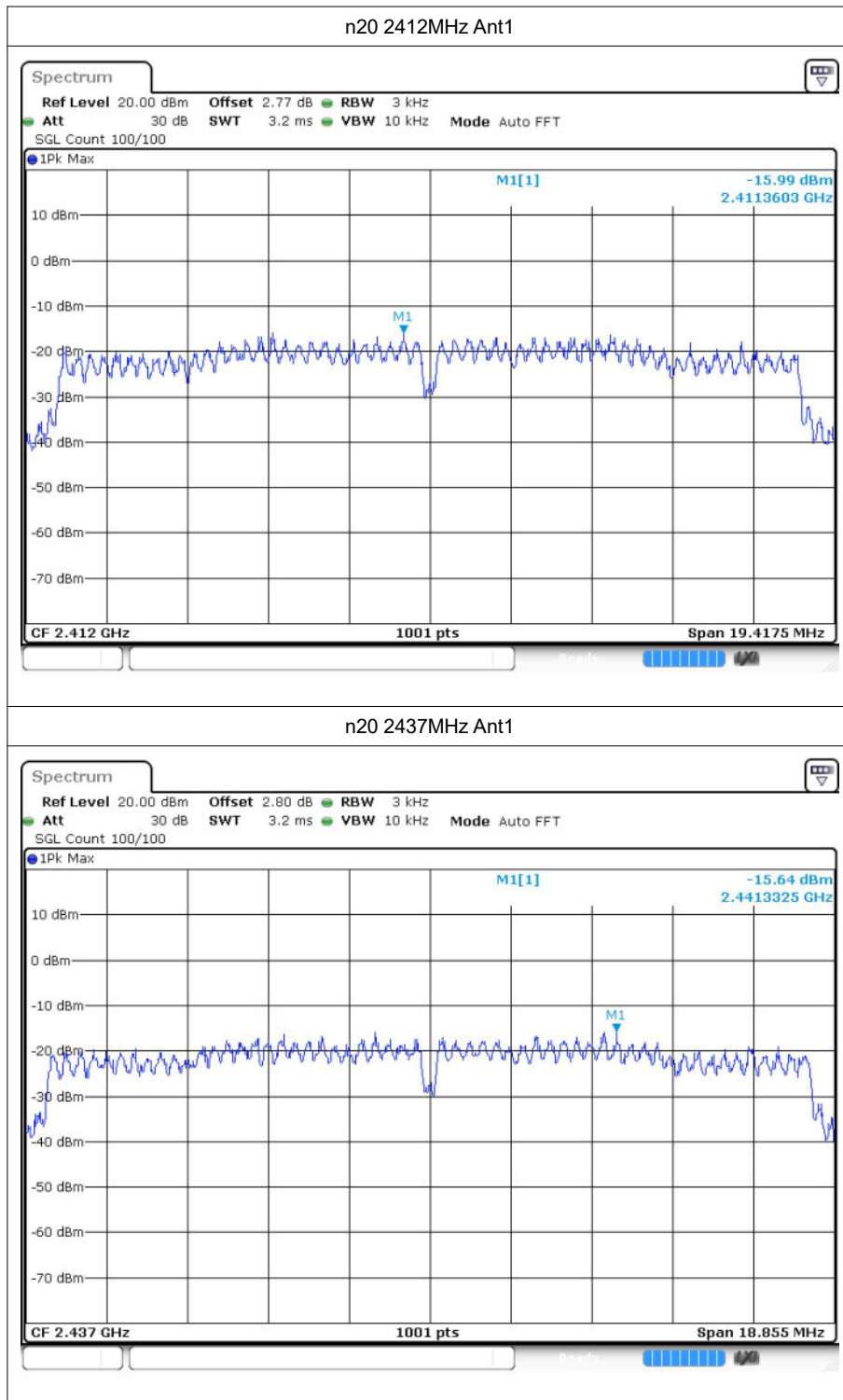
Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3-100kHz)	Limit (dBm/3kHz)	Verdict
b	2412	Ant1	-12.36	≤8	Pass
b	2437	Ant1	-12.15	≤8	Pass
b	2462	Ant1	-12.15	≤8	Pass
g	2412	Ant1	-15.78	≤8	Pass
g	2437	Ant1	-15.8	≤8	Pass
g	2462	Ant1	-15.58	≤8	Pass
n20	2412	Ant1	-15.99	≤8	Pass
n20	2437	Ant1	-15.64	≤8	Pass
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

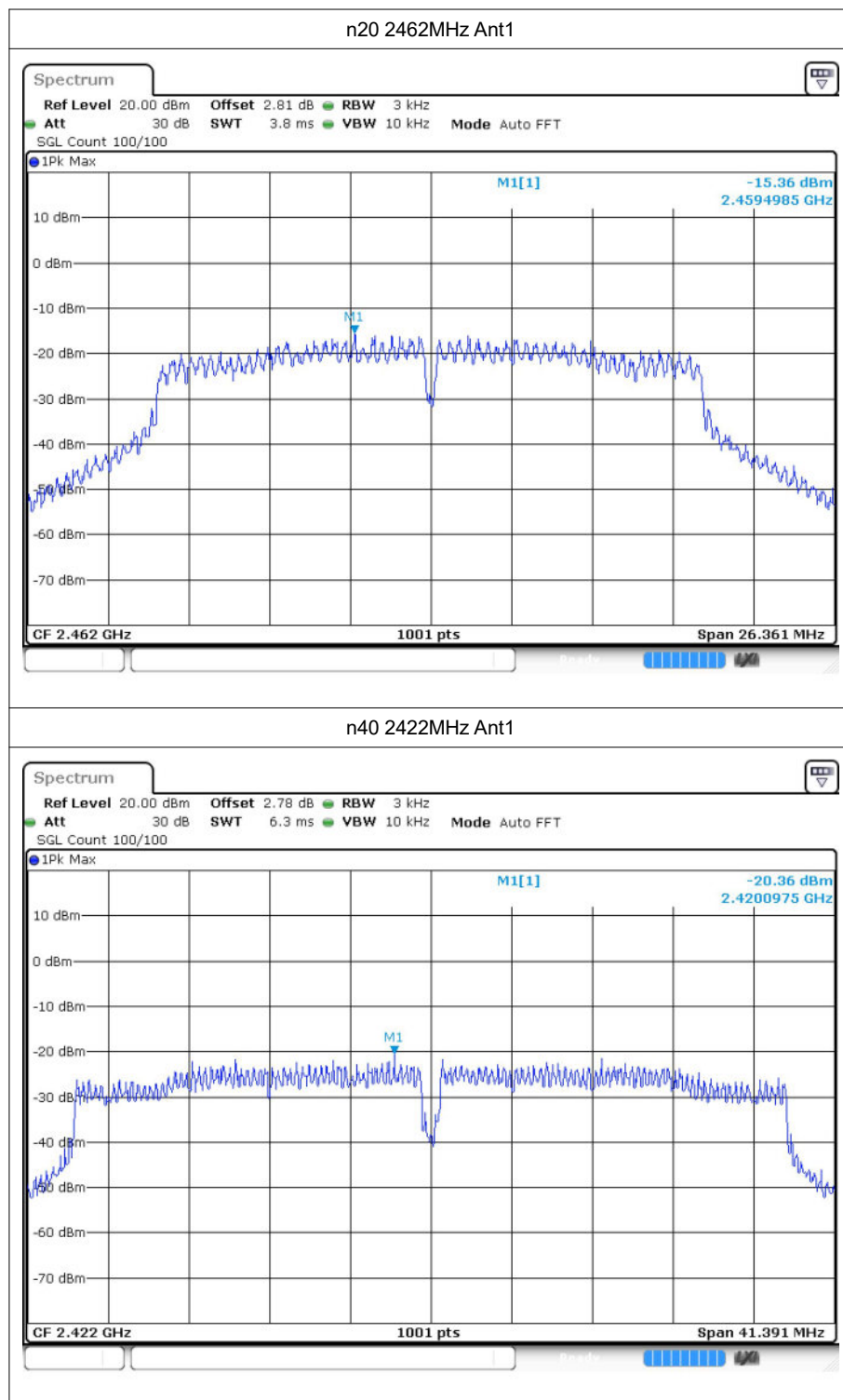
4.2 Test Graphs

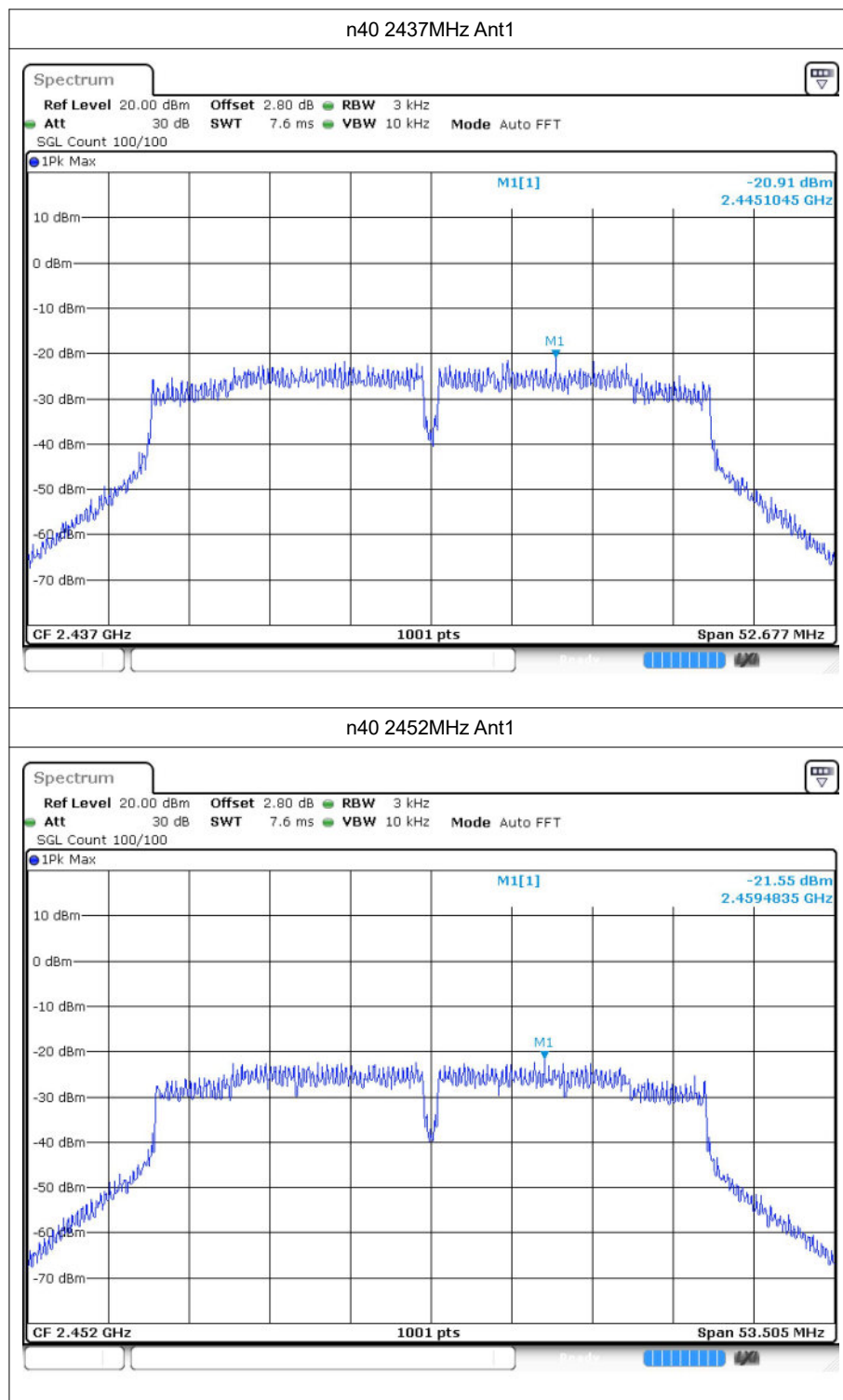


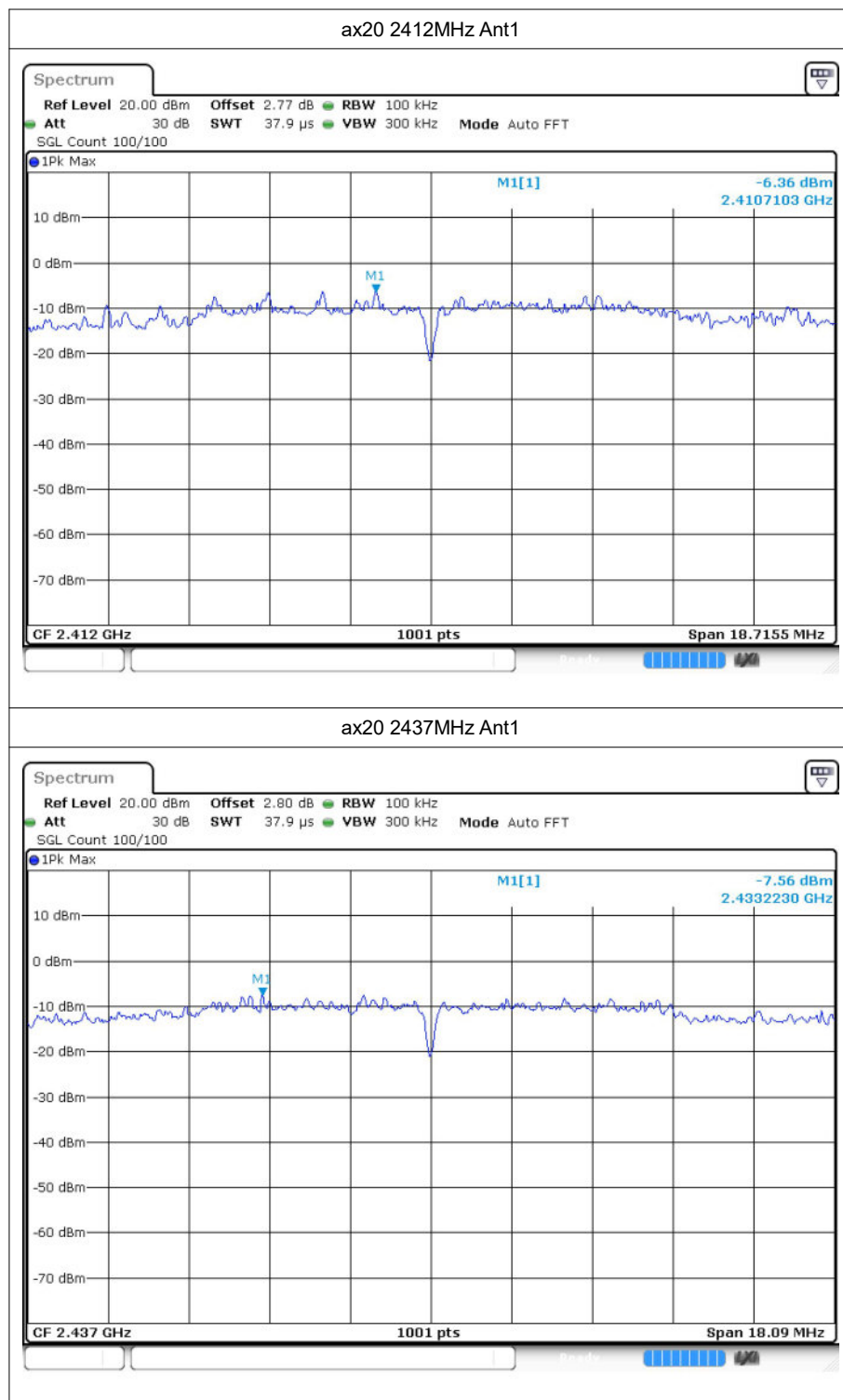


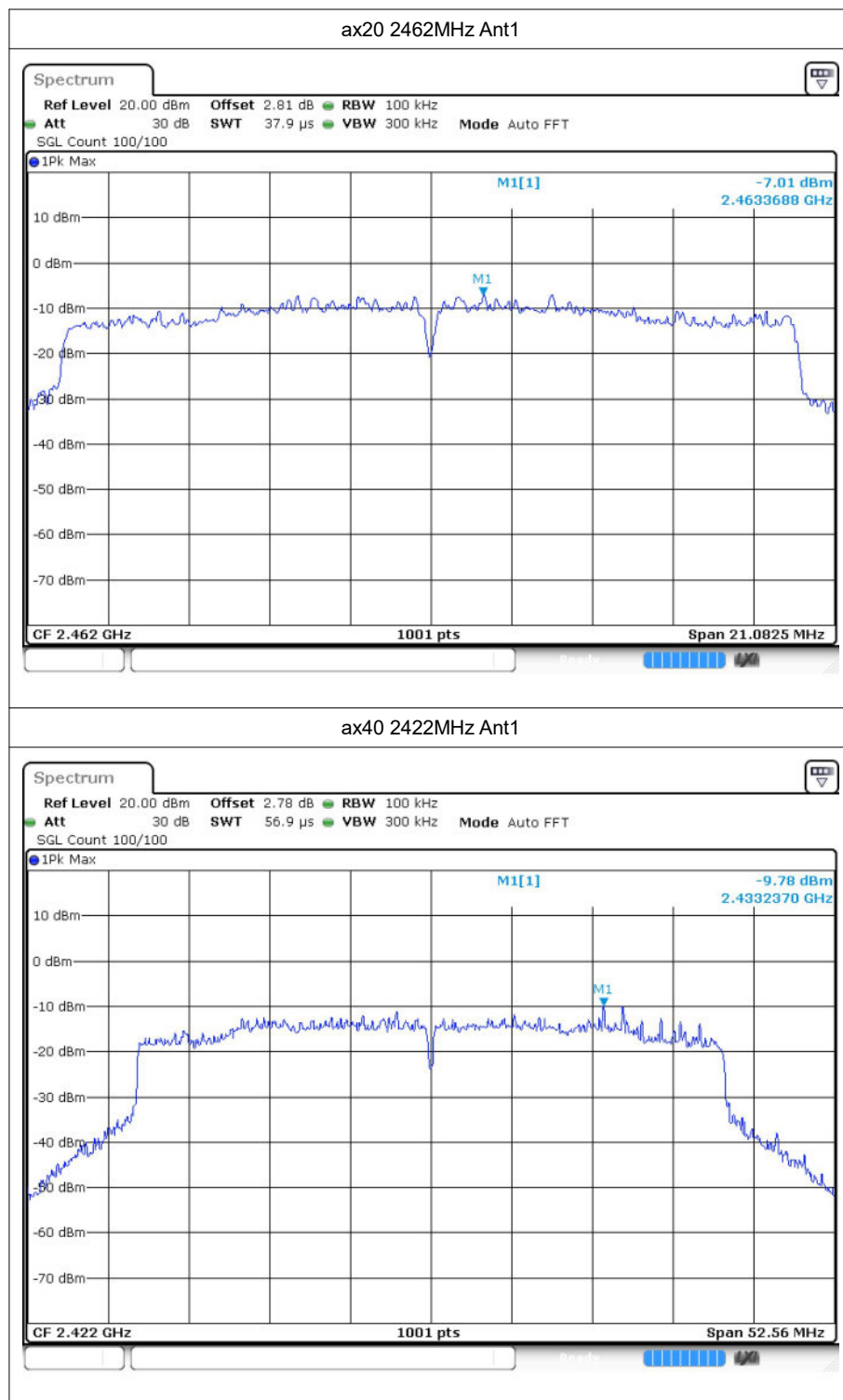


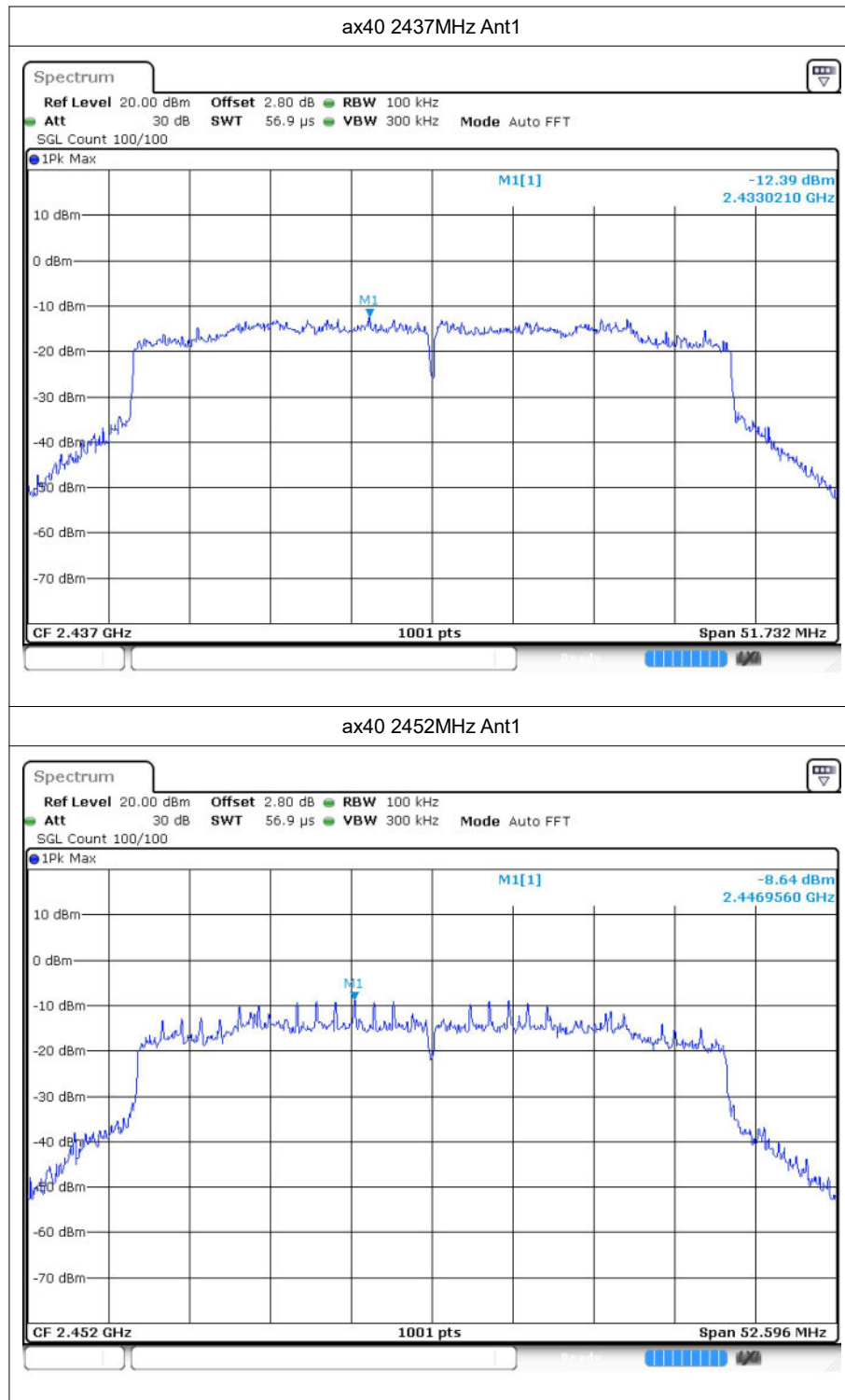














5 Band Edge

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

