



Appendix C

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: SMART PHOTO FRAME

Trade Mark: TIBUTA/BYYBUO

Test Model: TID10

Environmental Conditions

Temperature:	25.5° C
Relative Humidity:	52.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Simba Huang
Supervised by:	Seal Chen



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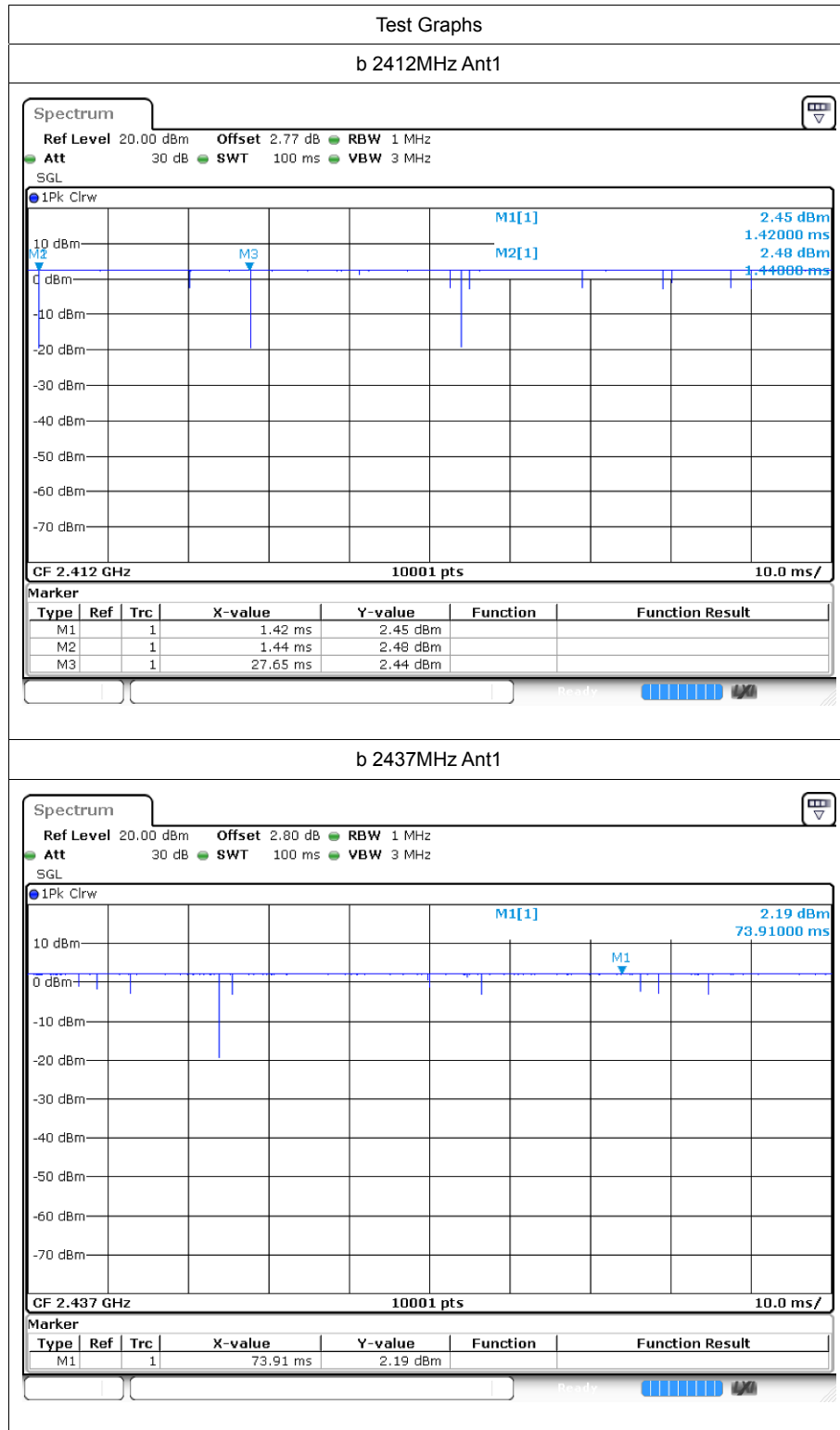


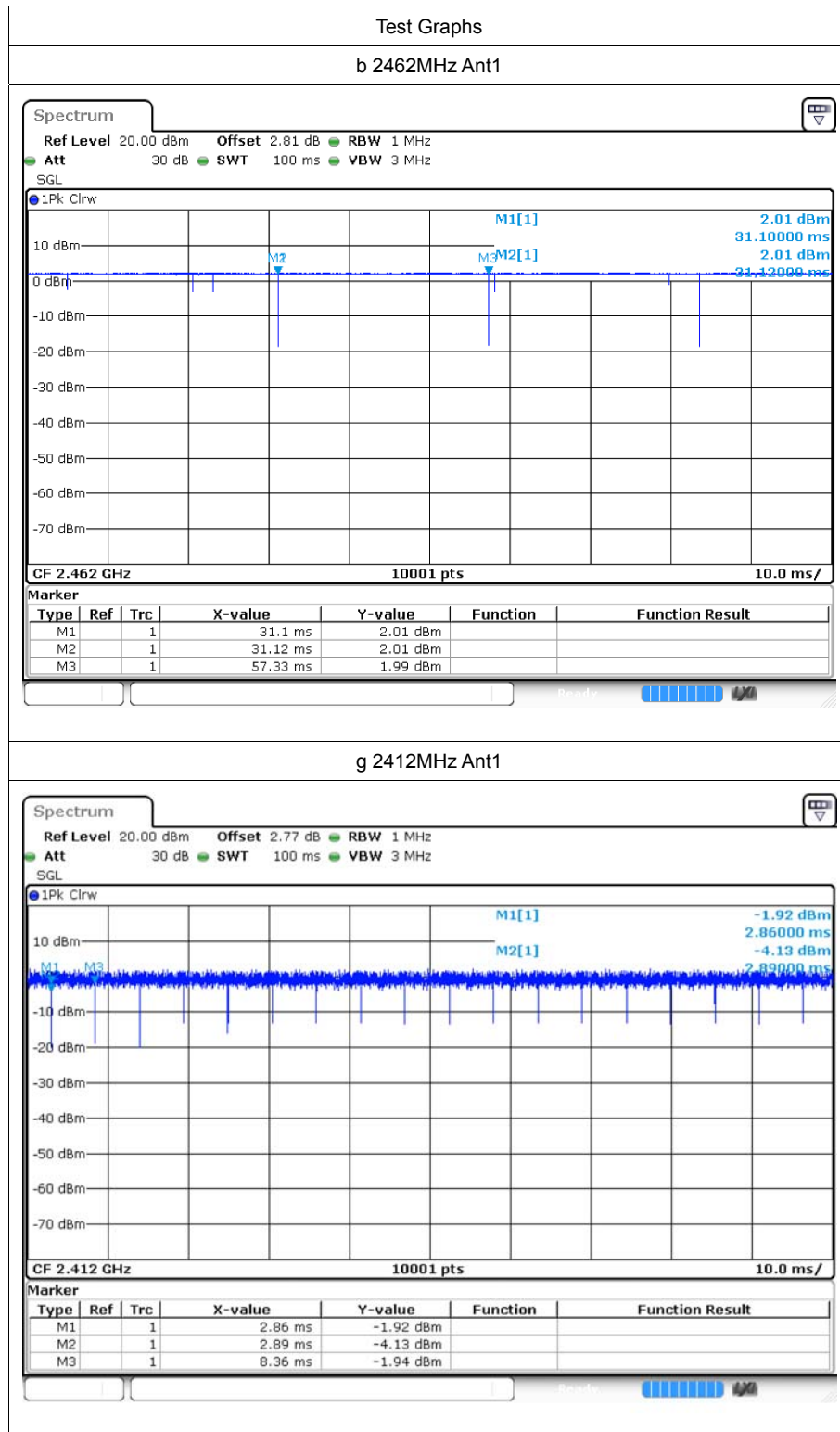
1 Duty Cycle

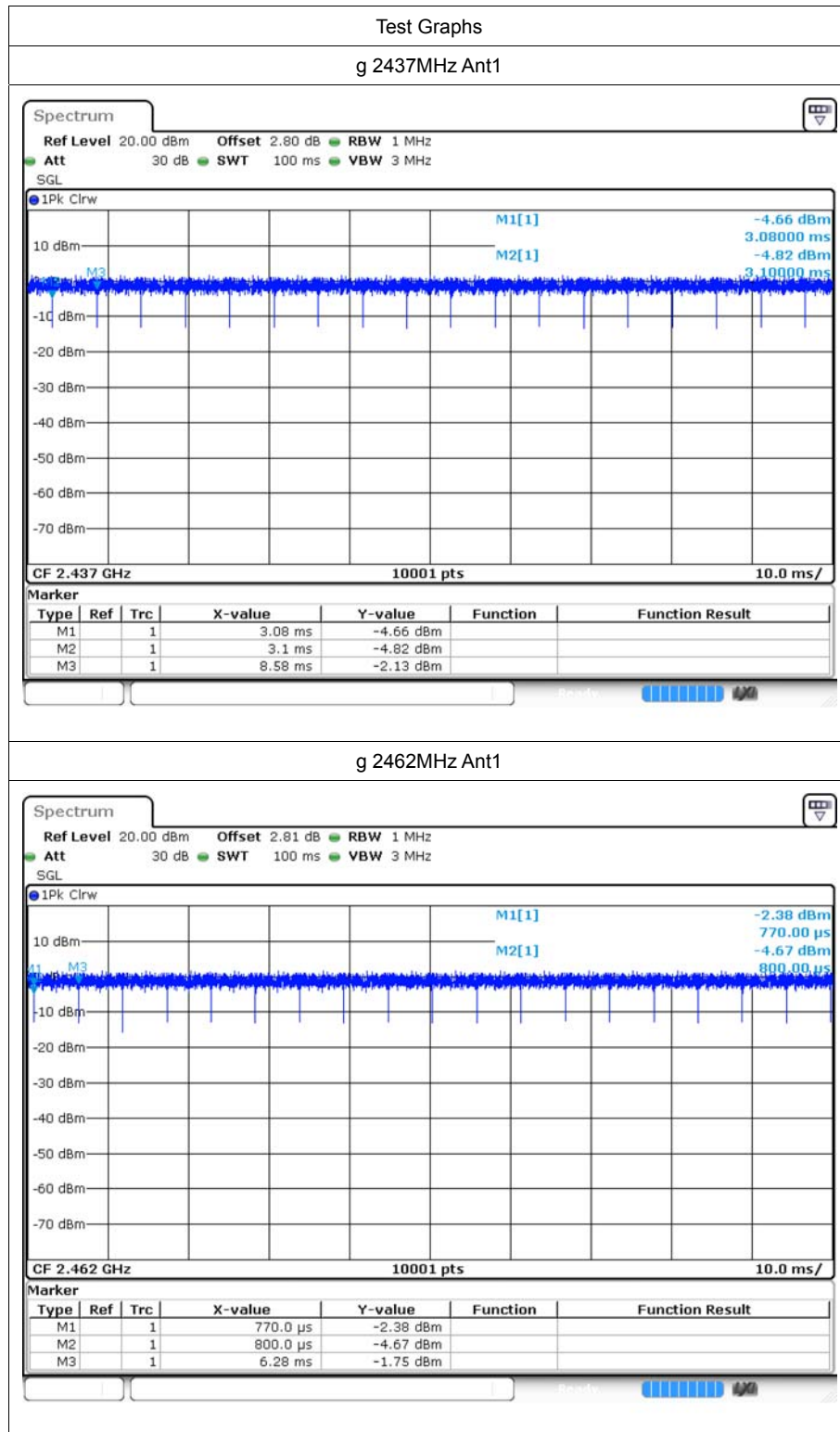
1.1 Test Result

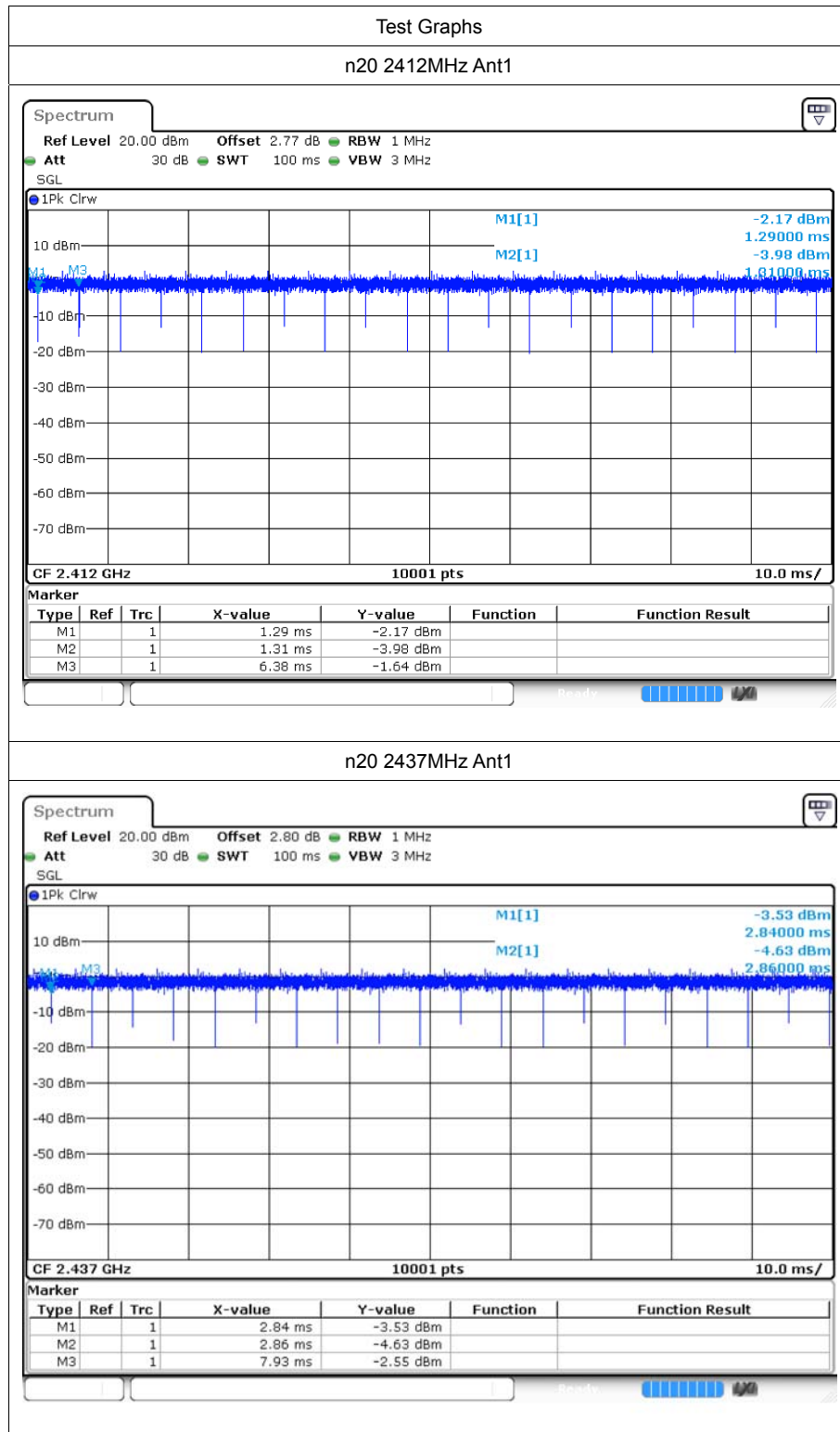
Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	1/T (kHz)
b	2412	Ant1	99.97	0.04
b	2437	Ant1	99.99	0
b	2462	Ant1	99.97	0.04
g	2412	Ant1	99.75	0.18
g	2437	Ant1	99.82	0.18
g	2462	Ant1	99.79	0.18
n20	2412	Ant1	99.73	0.2
n20	2437	Ant1	99.72	0.2
n20	2462	Ant1	99.74	0.2

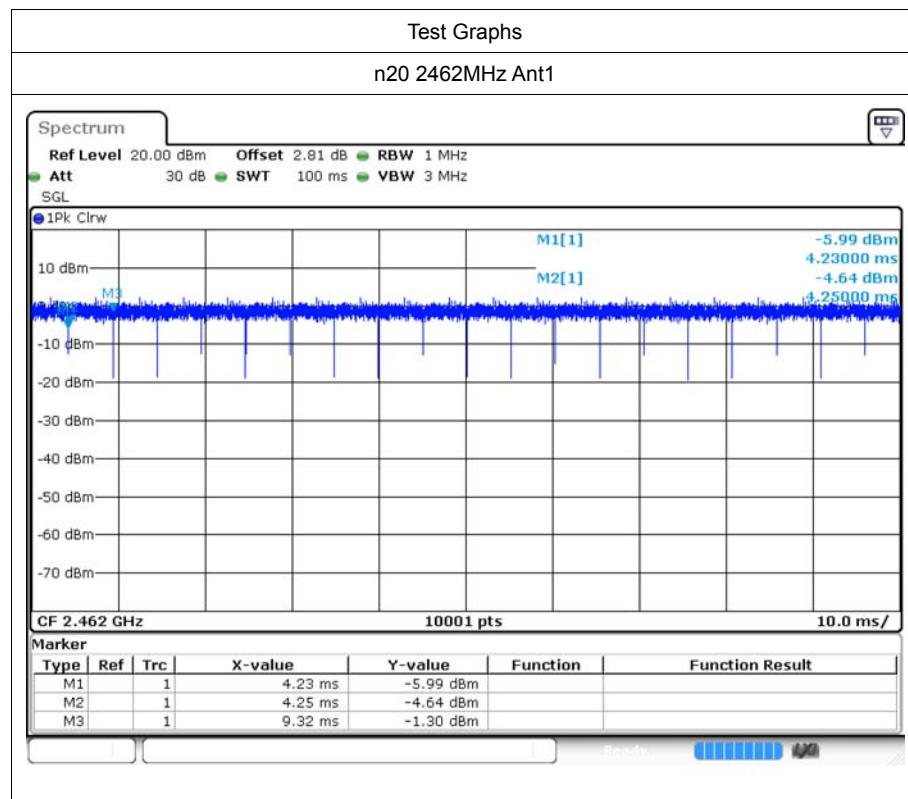
1.2 Test Graphs













2 Maximum Conducted Output Power

2.1 Test Result

Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
b	2412	Ant1	12.81	30	Pass
b	2437	Ant1	12.08	30	Pass
b	2462	Ant1	11.9	30	Pass
g	2412	Ant1	12.68	30	Pass
g	2437	Ant1	11.98	30	Pass
g	2462	Ant1	11.88	30	Pass
n20	2412	Ant1	12.67	30	Pass
n20	2437	Ant1	11.98	30	Pass
n20	2462	Ant1	11.82	30	Pass

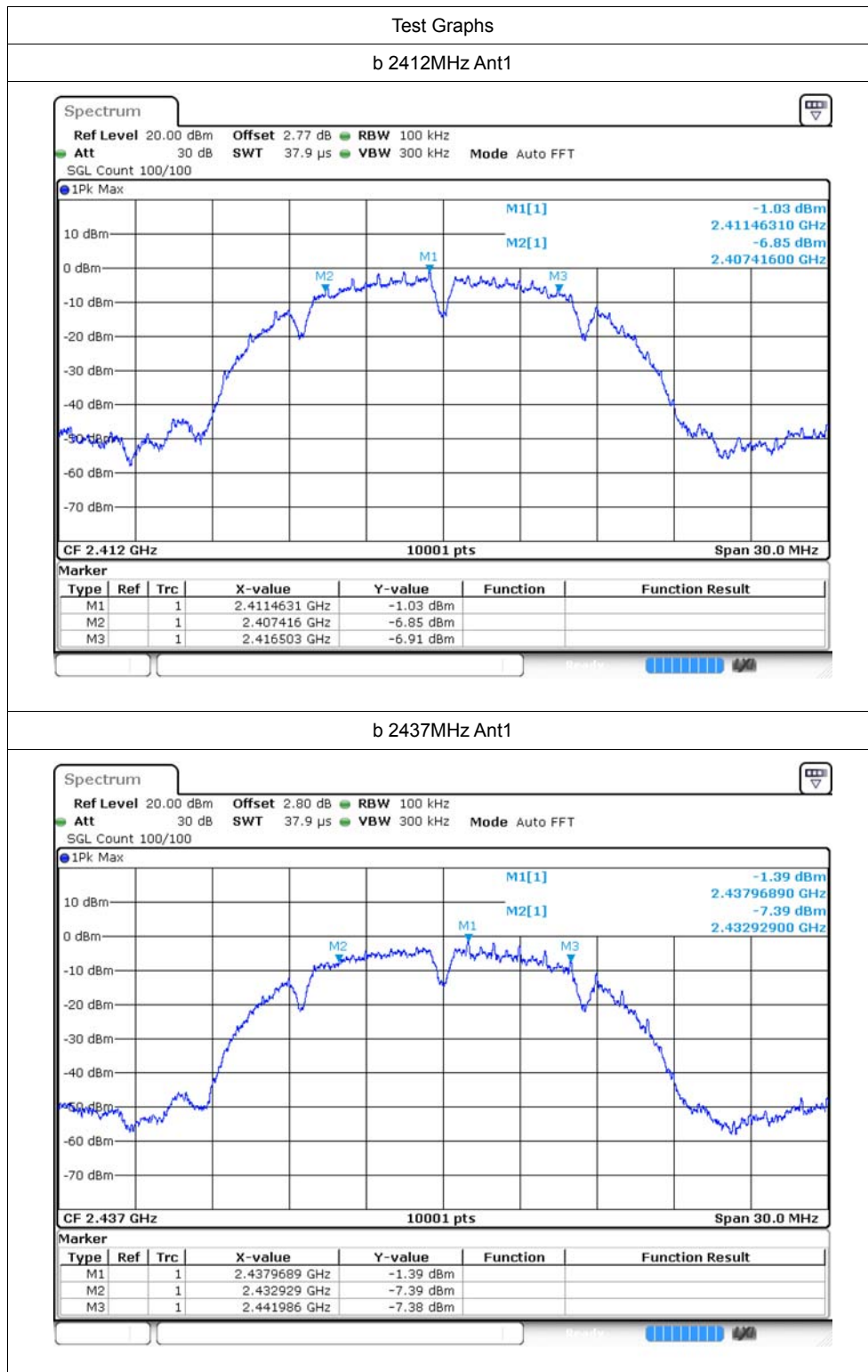


3 -6dB Bandwidth

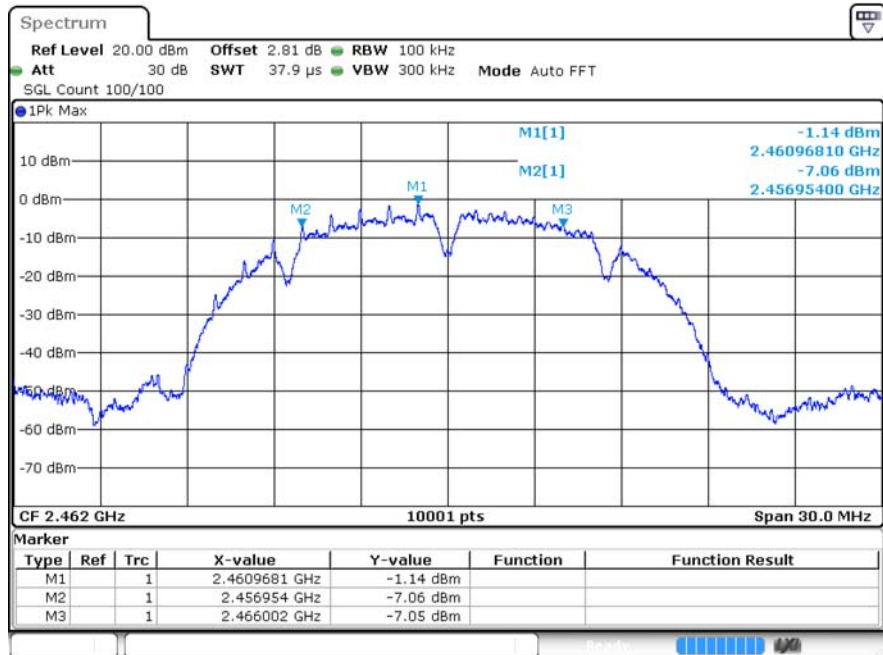
3.1 Test Result

Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
b	2412	Ant1	9.087	0.5	Pass
b	2437	Ant1	9.057	0.5	Pass
b	2462	Ant1	9.048	0.5	Pass
g	2412	Ant1	16.338	0.5	Pass
g	2437	Ant1	16.527	0.5	Pass
g	2462	Ant1	16.488	0.5	Pass
n20	2412	Ant1	16.881	0.5	Pass
n20	2437	Ant1	16.545	0.5	Pass
n20	2462	Ant1	17.559	0.5	Pass

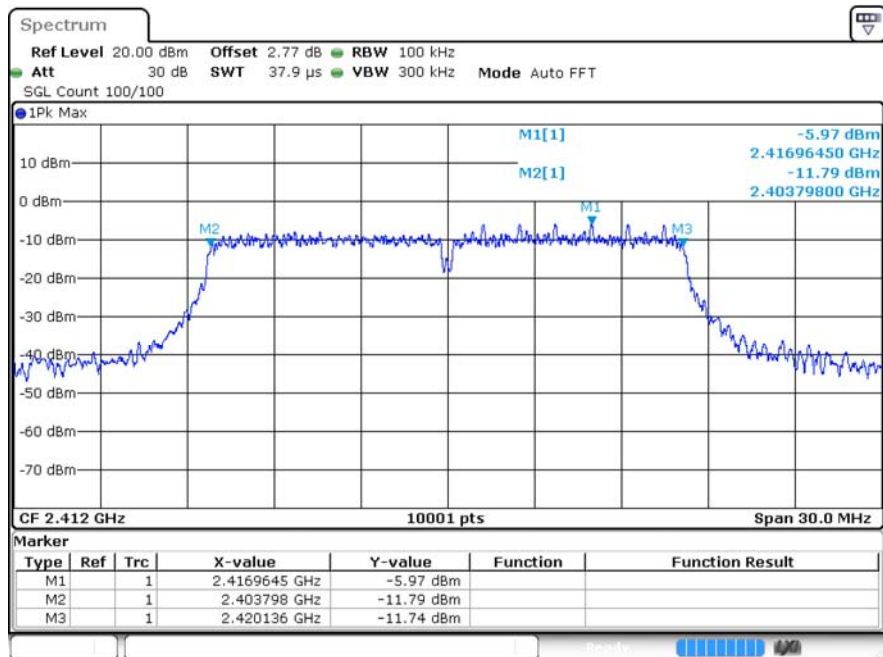
3.2 Test Graphs



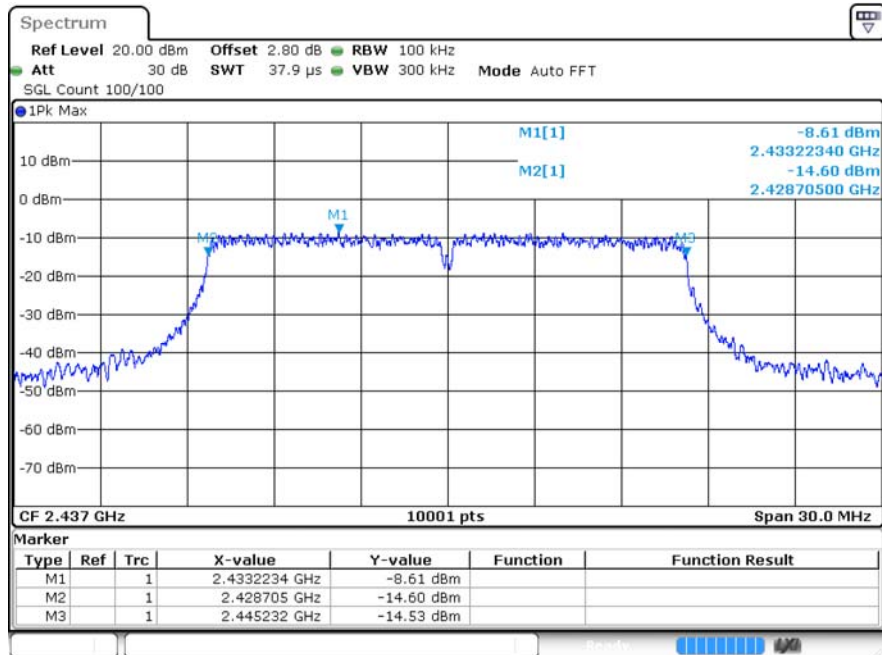
b 2462MHz Ant1



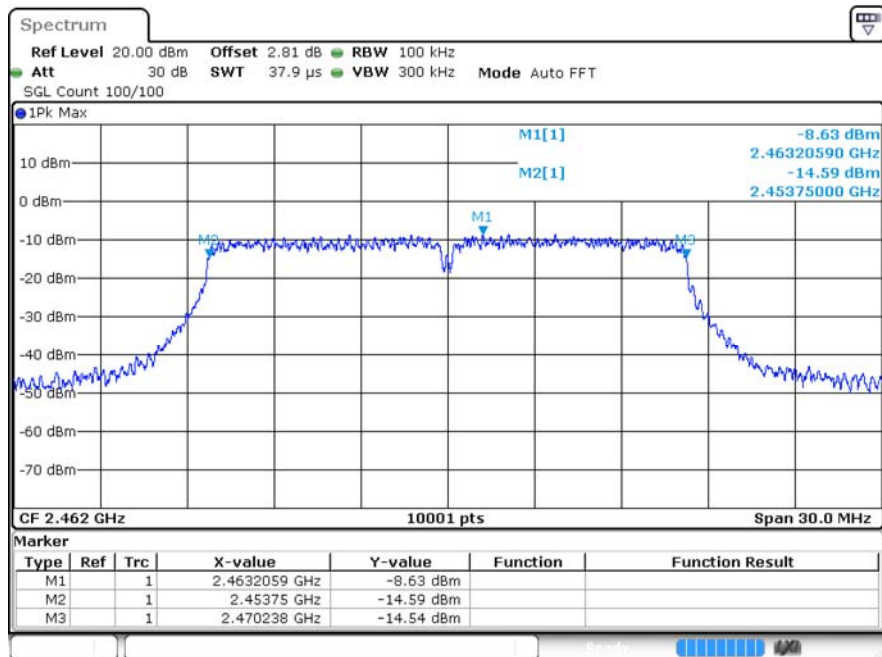
g 2412MHz Ant1



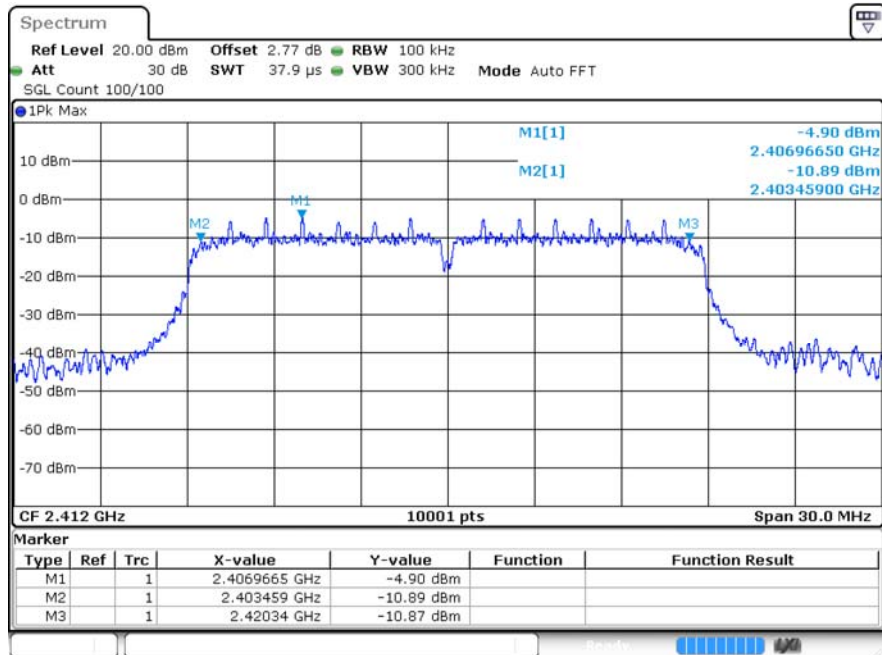
g 2437MHz Ant1



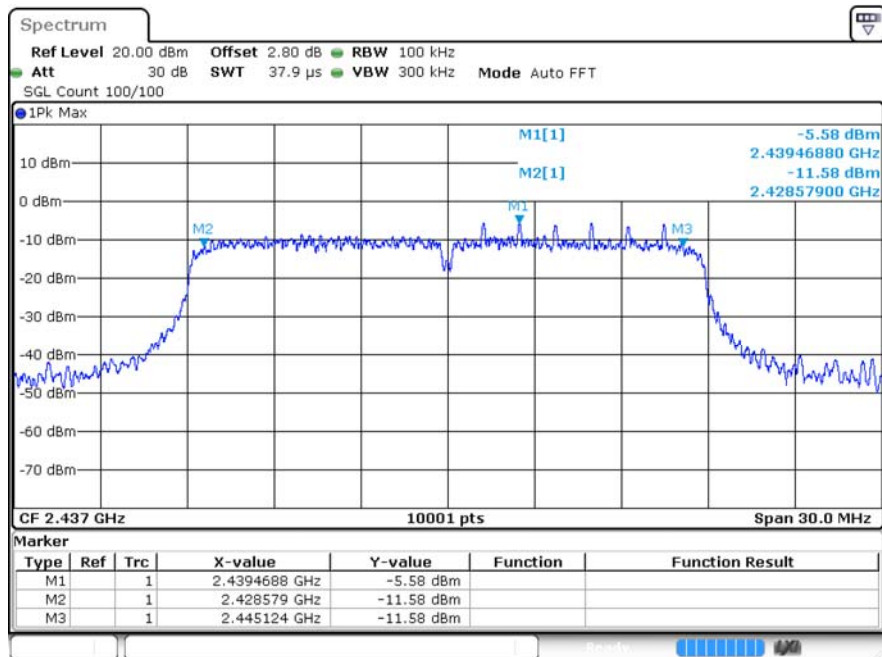
g 2462MHz Ant1

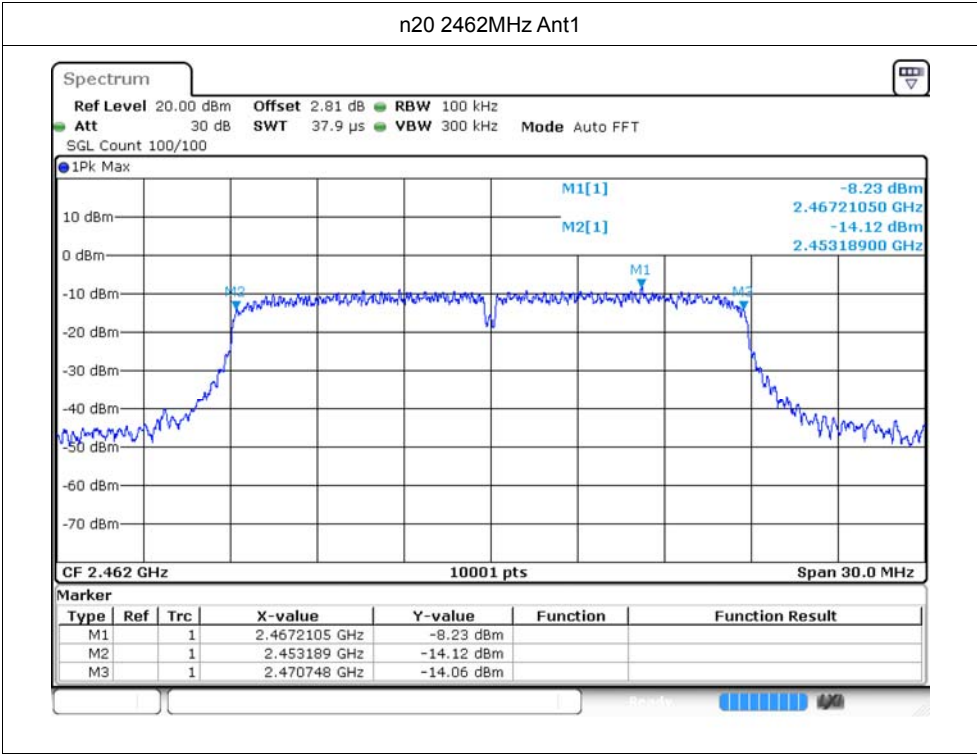


n20 2412MHz Ant1



n20 2437MHz Ant1



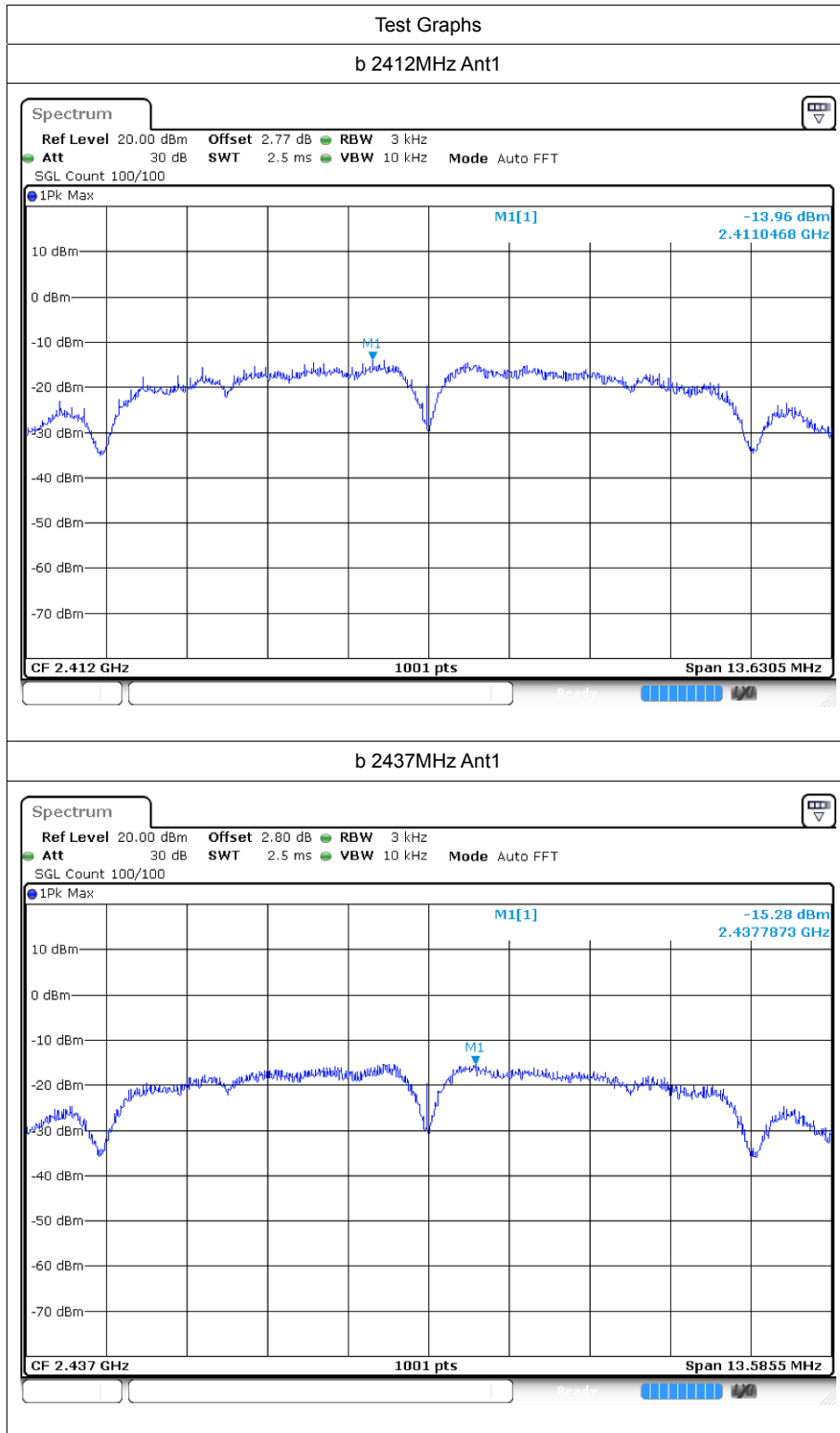


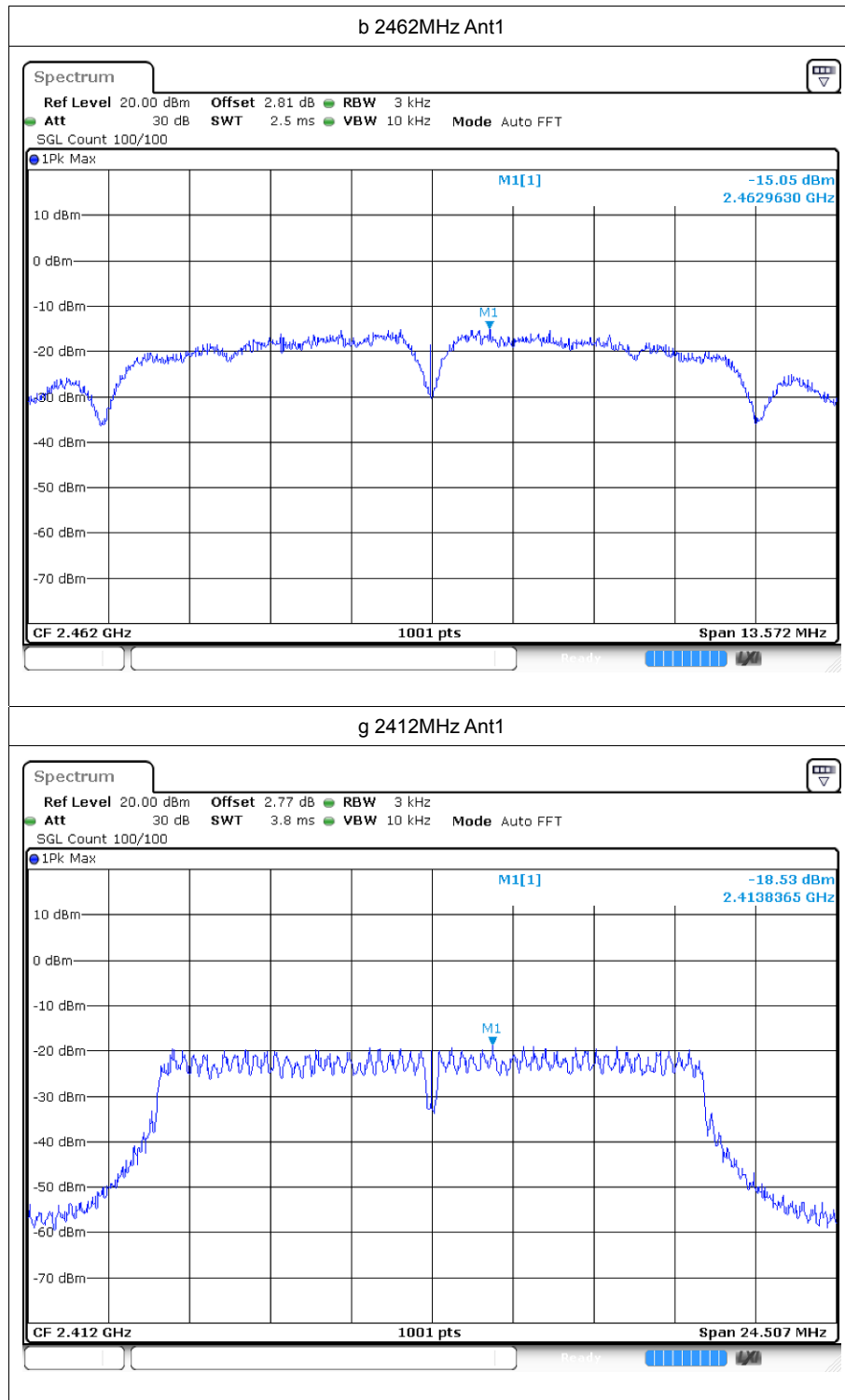
4 Maximum Power Spectral Density Level

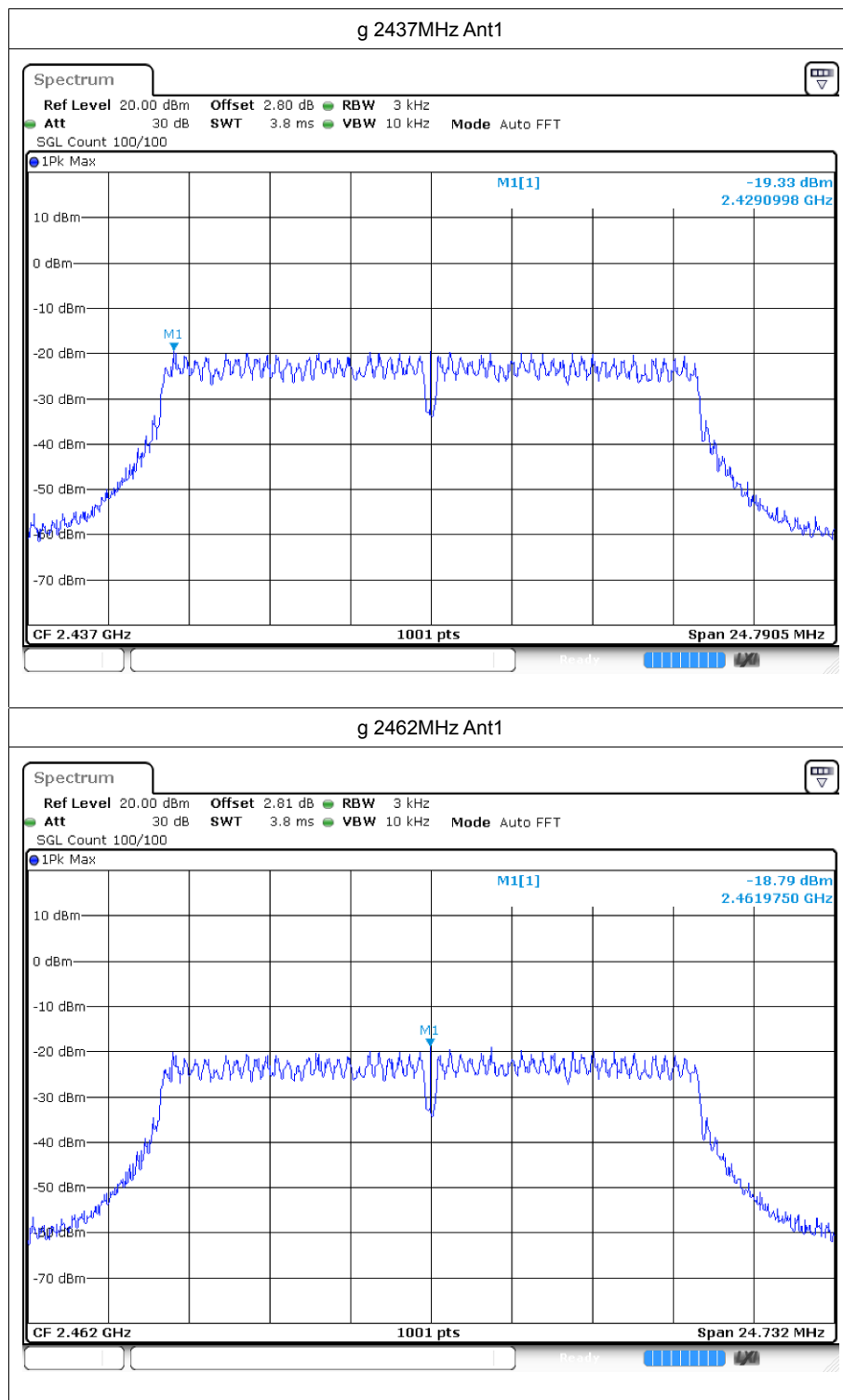
4.1 Test Result

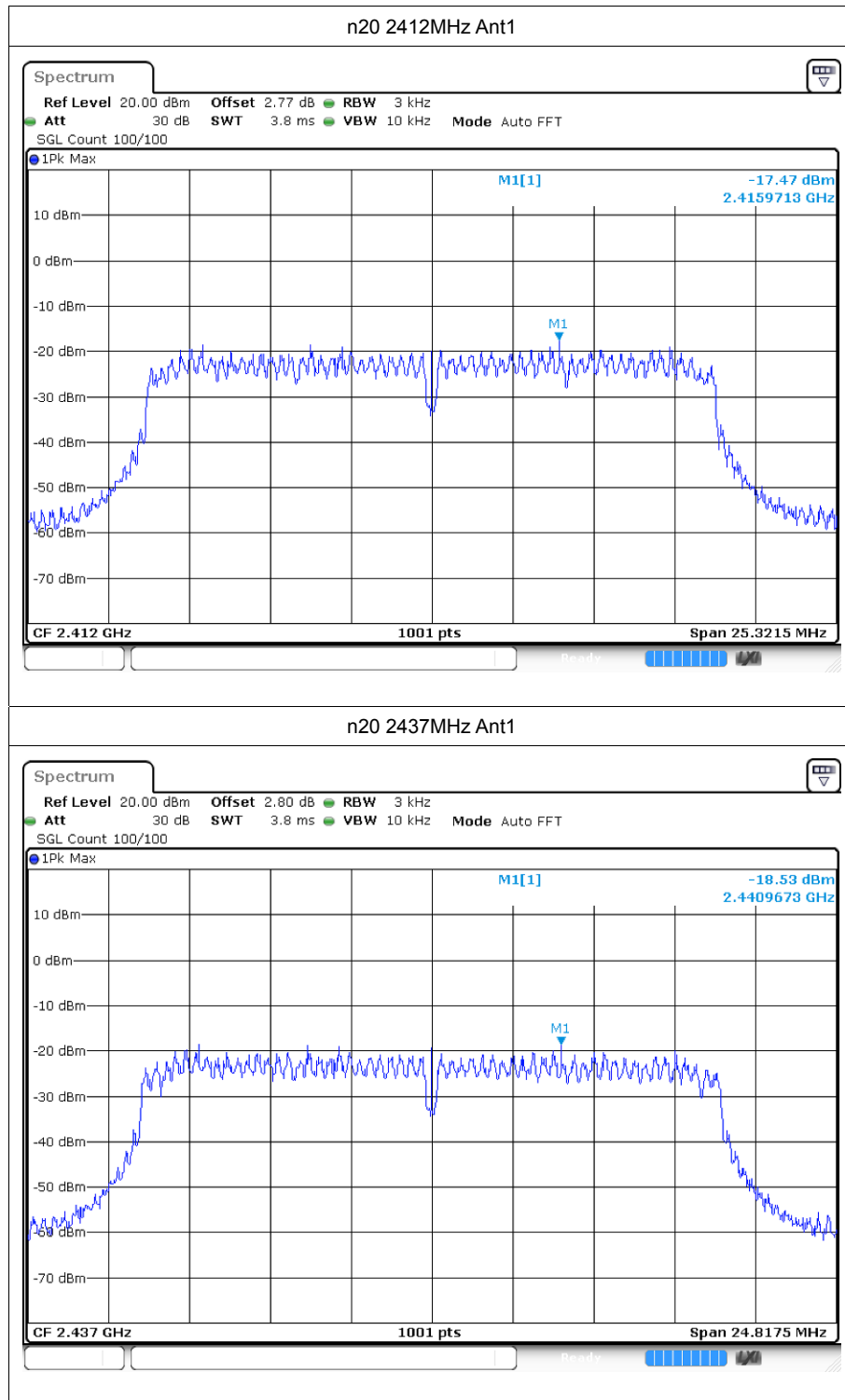
Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3-100kHz)	Limit (dBm/3kHz)	Verdict
b	2412	Ant1	-13.96	≤ 8	Pass
b	2437	Ant1	-15.28	≤ 8	Pass
b	2462	Ant1	-15.05	≤ 8	Pass
g	2412	Ant1	-18.53	≤ 8	Pass
g	2437	Ant1	-19.33	≤ 8	Pass
g	2462	Ant1	-18.79	≤ 8	Pass
n20	2412	Ant1	-17.47	≤ 8	Pass
n20	2437	Ant1	-18.53	≤ 8	Pass
n20	2462	Ant1	-18.24	≤ 8	Pass

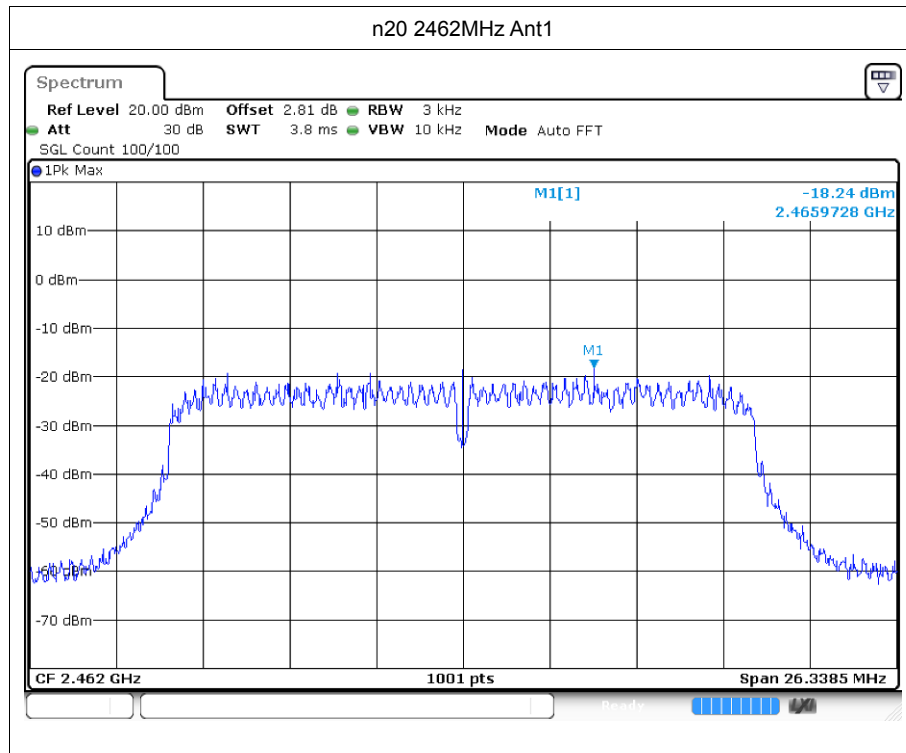
4.2 Test Graphs











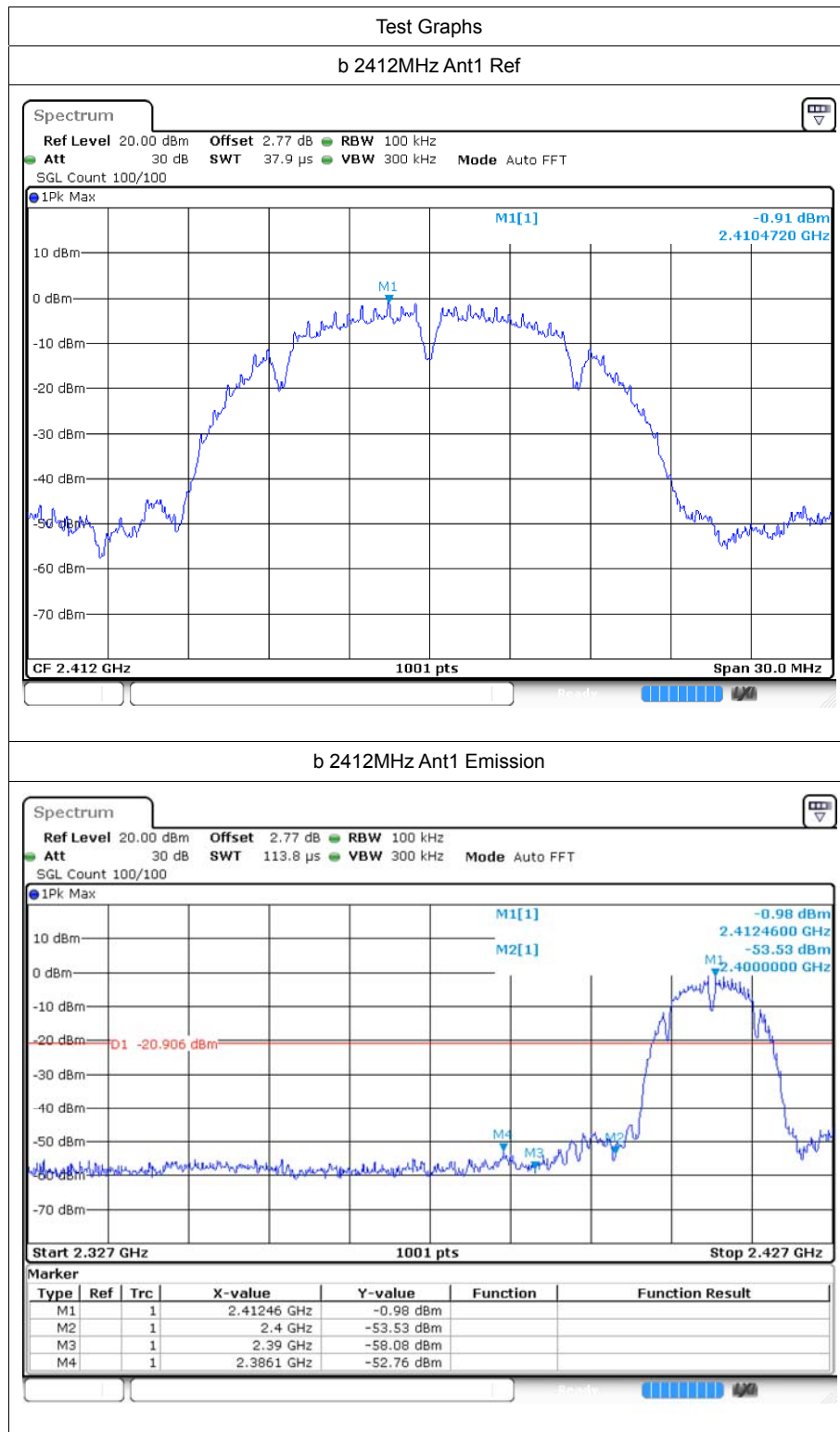


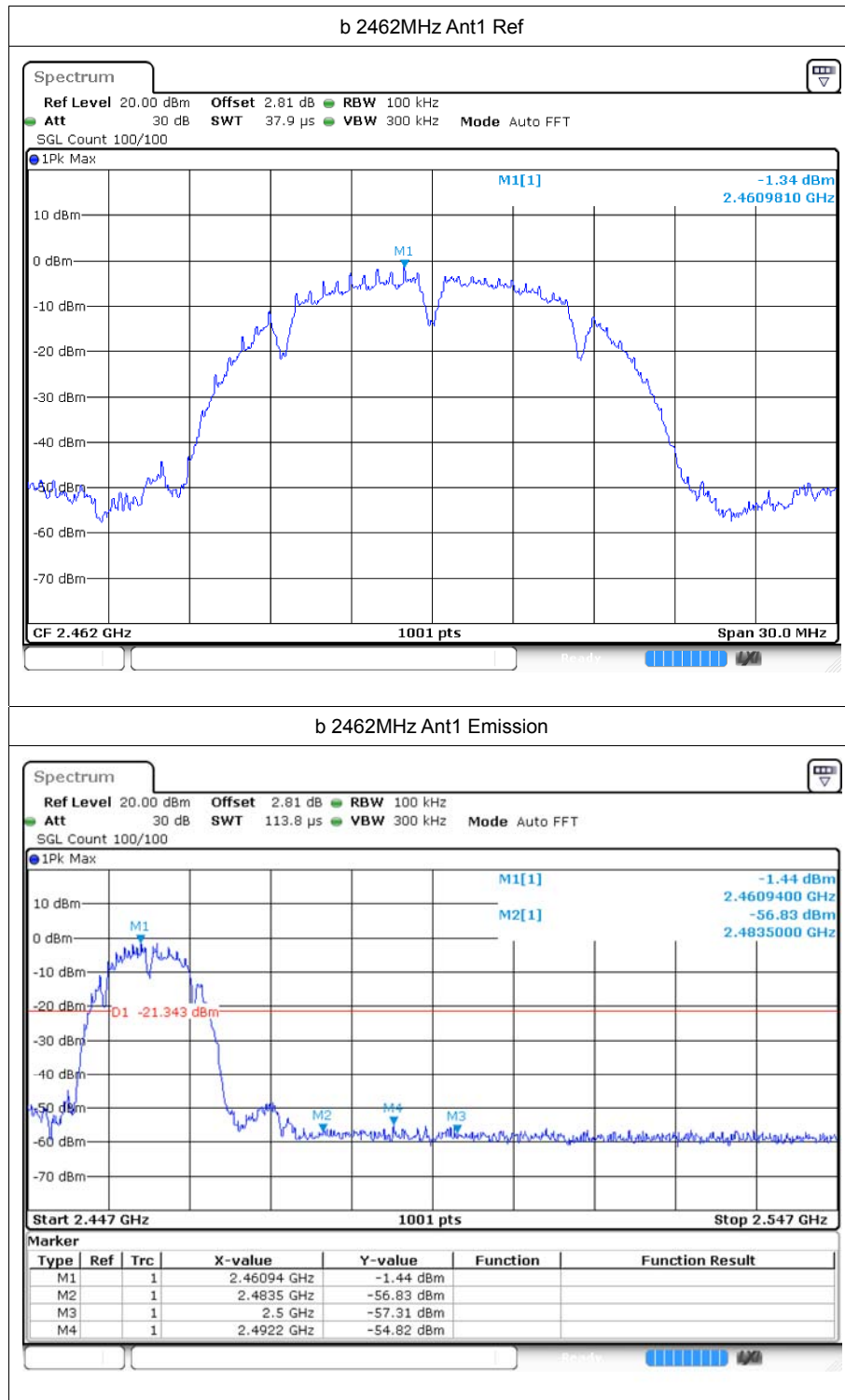
5 Band Edge

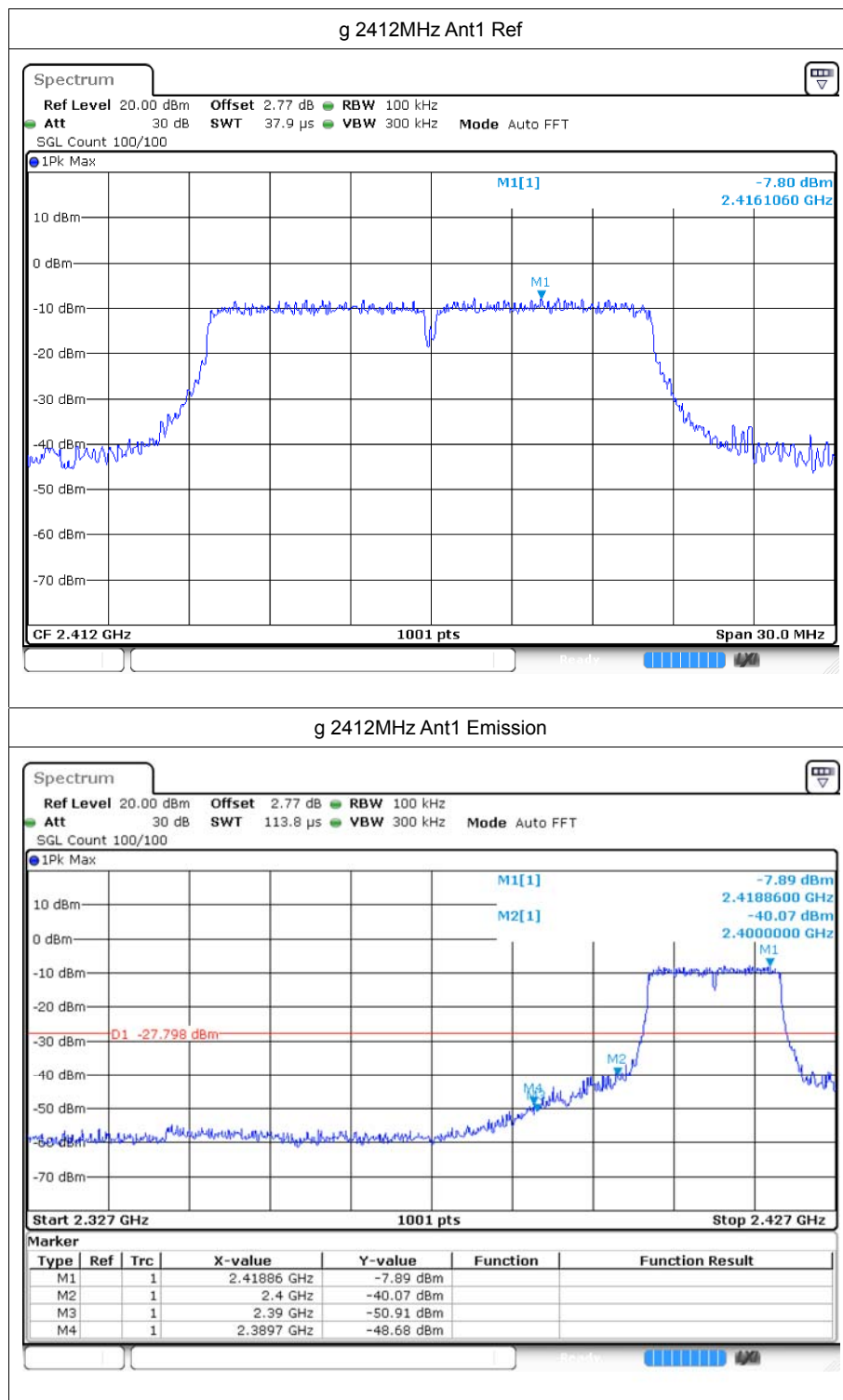
5.1 Test Result

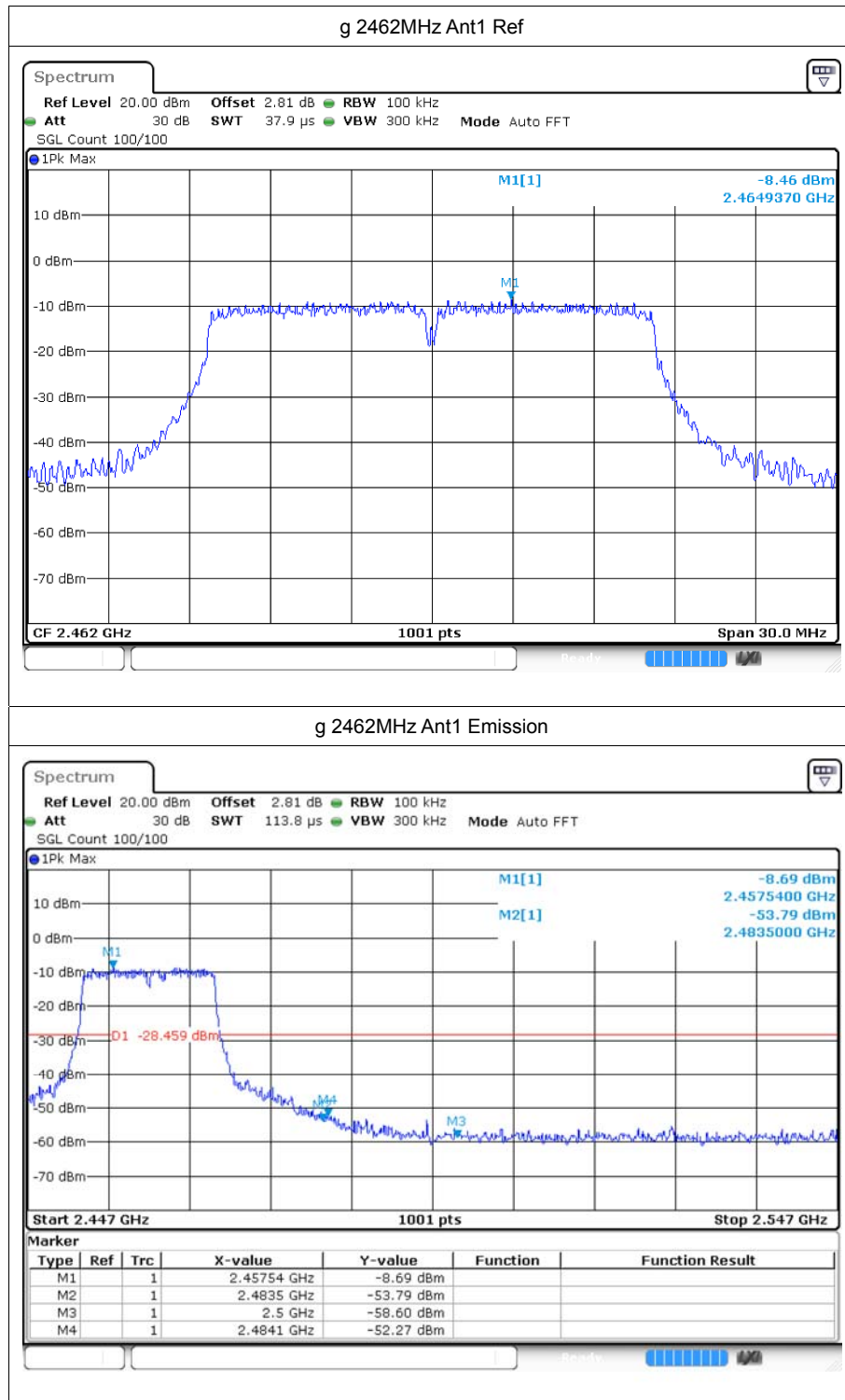
Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
b	2412	Ant1	-51.84	-20	-51.84
b	2462	Ant1	-53.47	-20	Pass
g	2412	Ant1	-40.88	-20	Pass
g	2462	Ant1	-43.81	-20	Pass
n20	2412	Ant1	-39.13	-20	Pass
n20	2462	Ant1	-42.43	-20	Pass

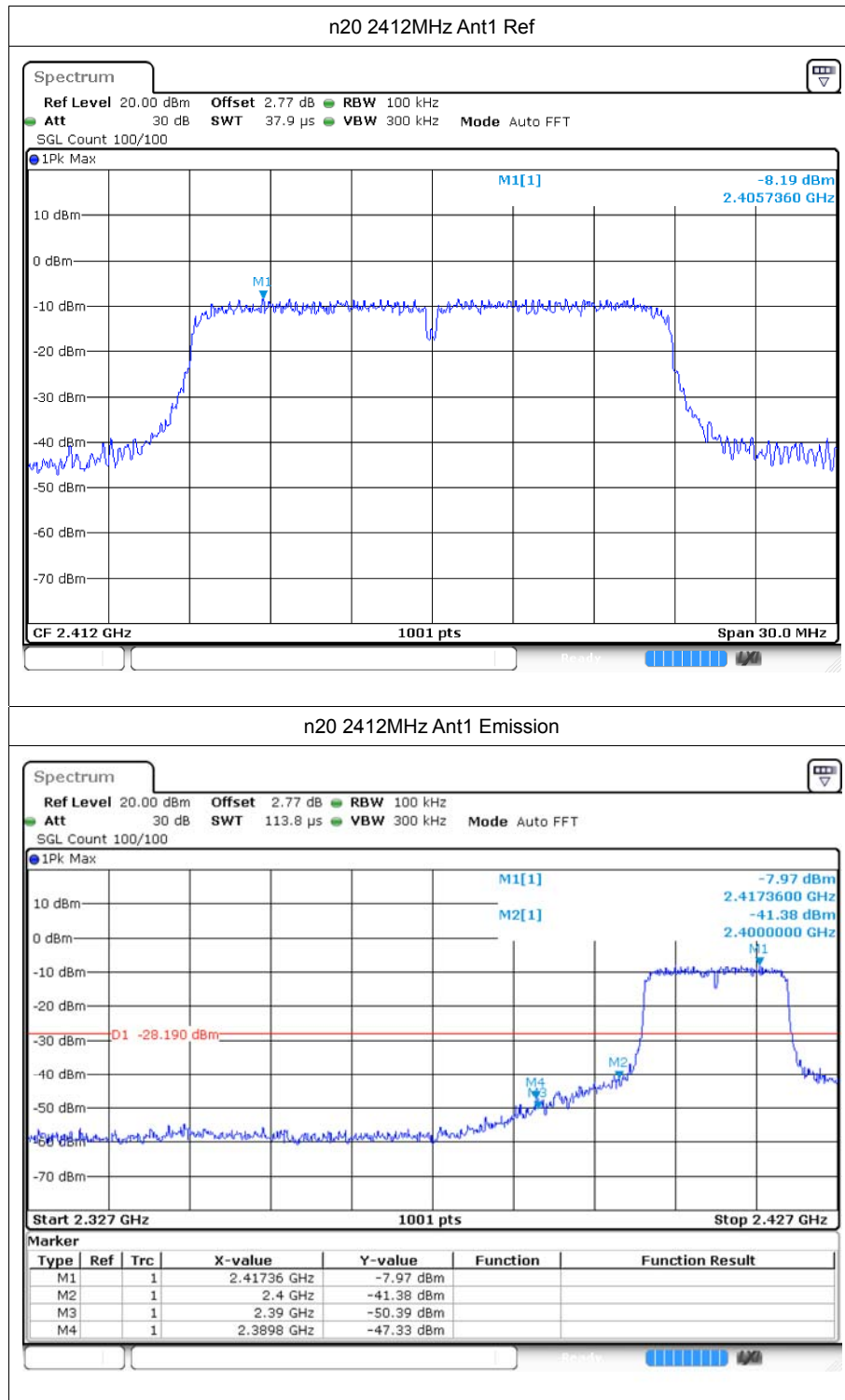
5.2 Test Graphs

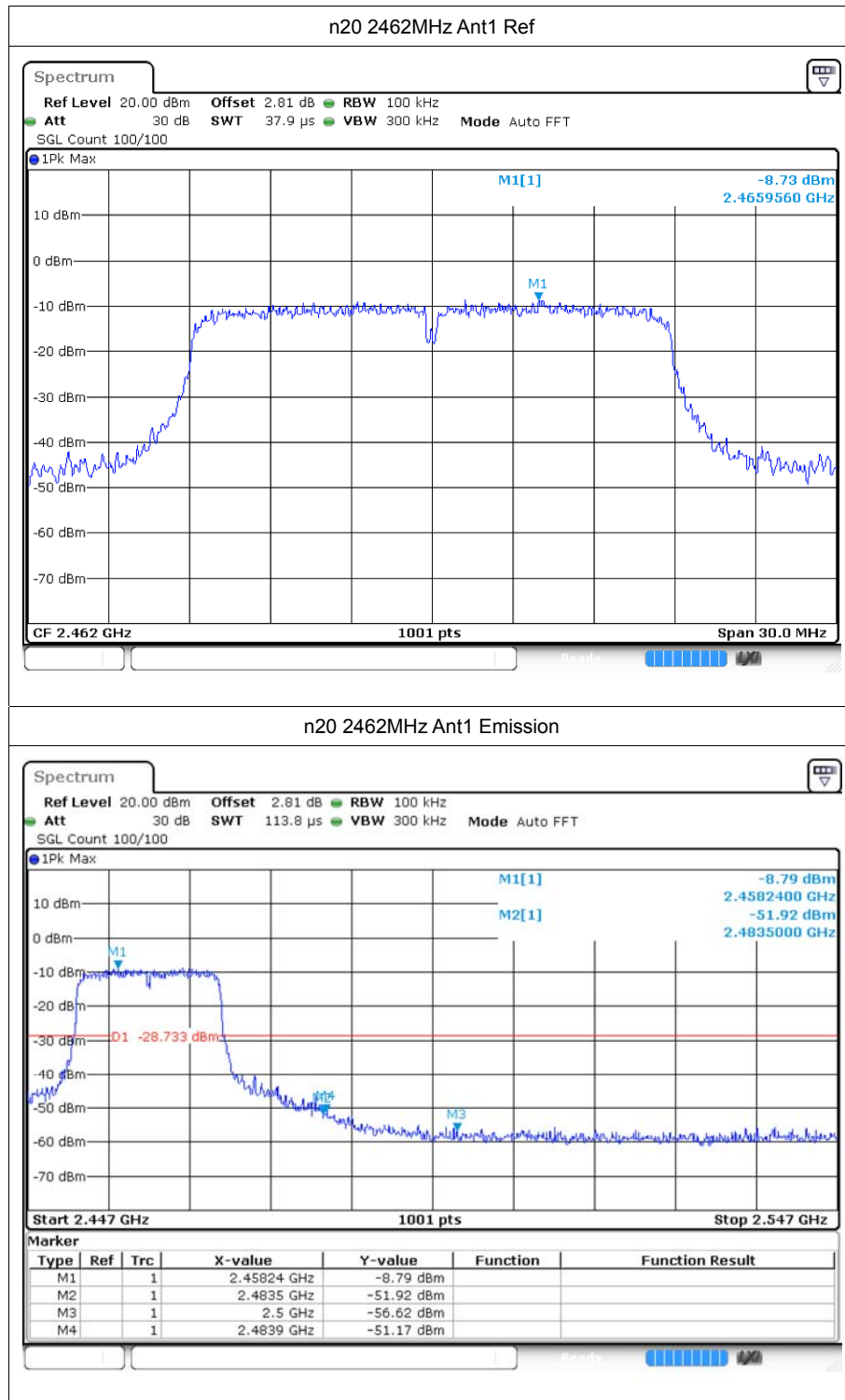












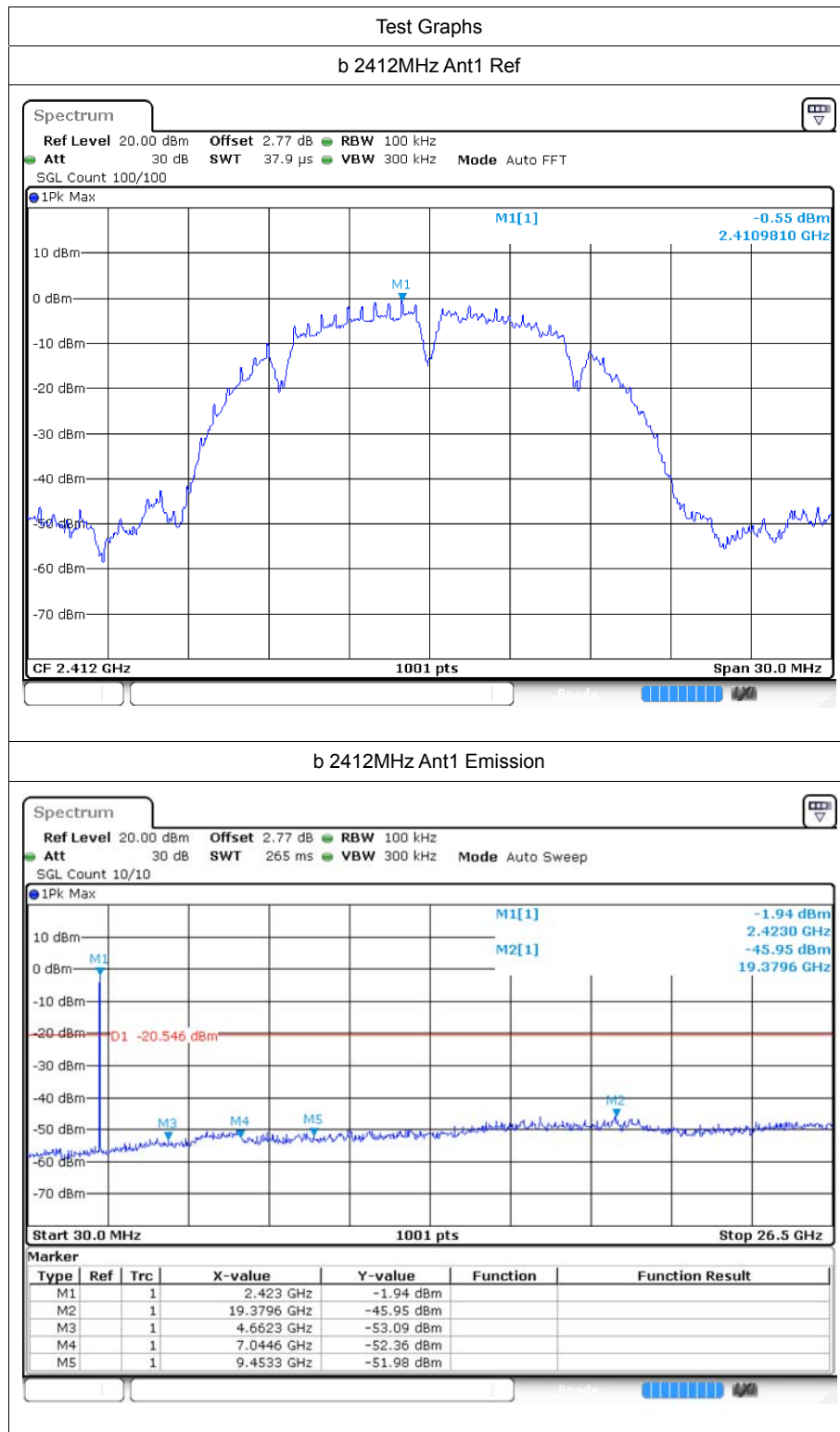


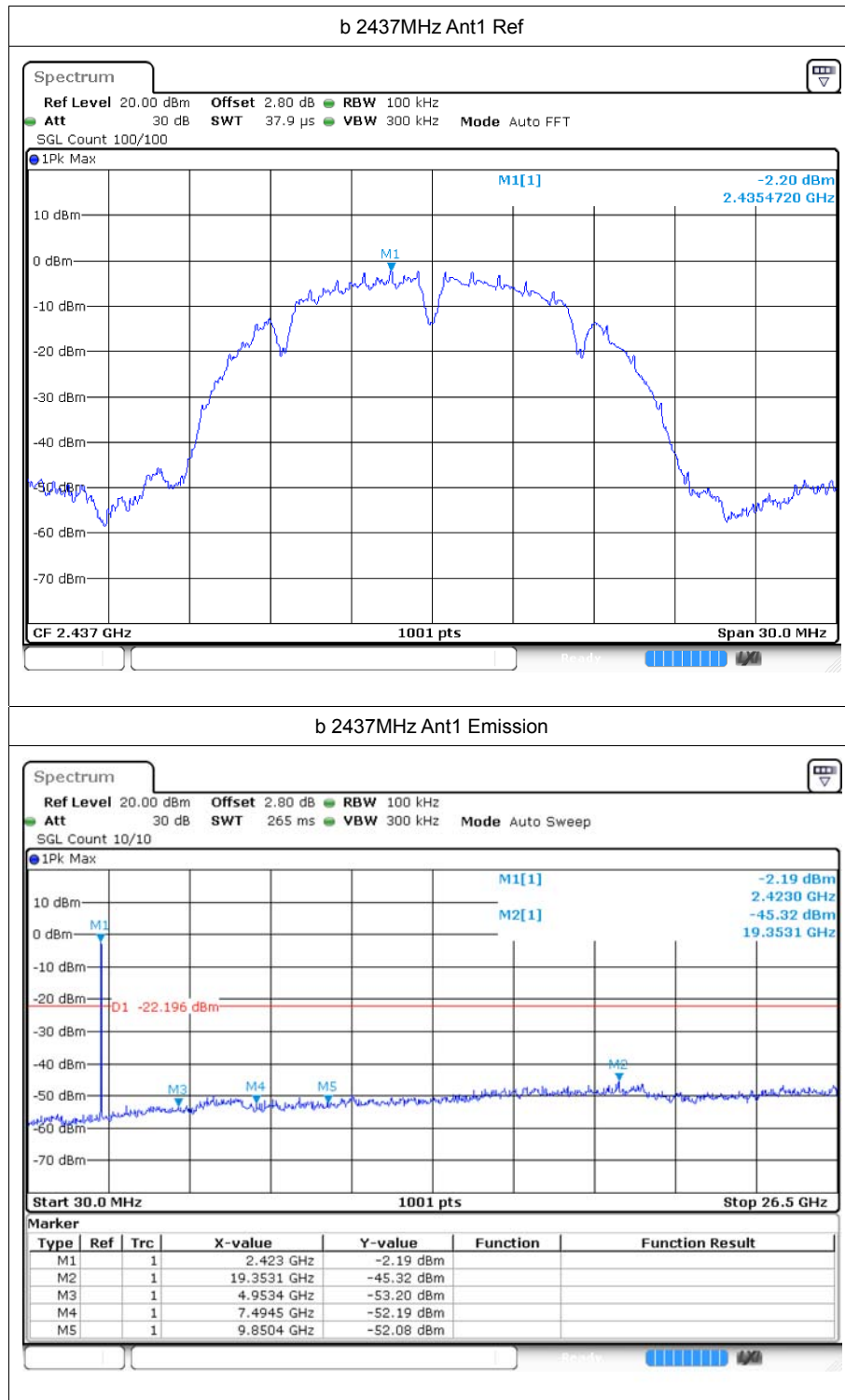
6 Conducted RF Spurious Emission

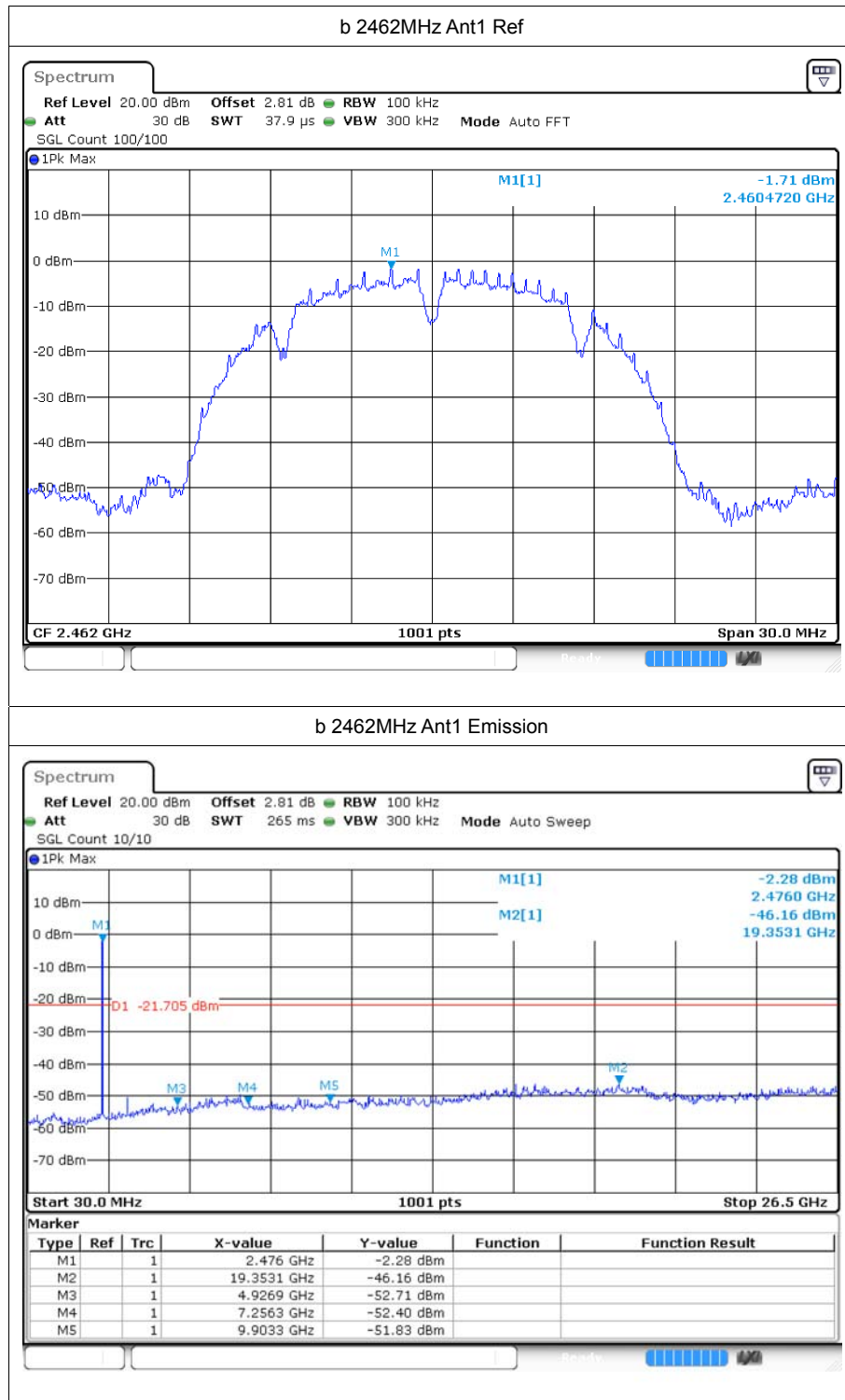
6.1 Test Result

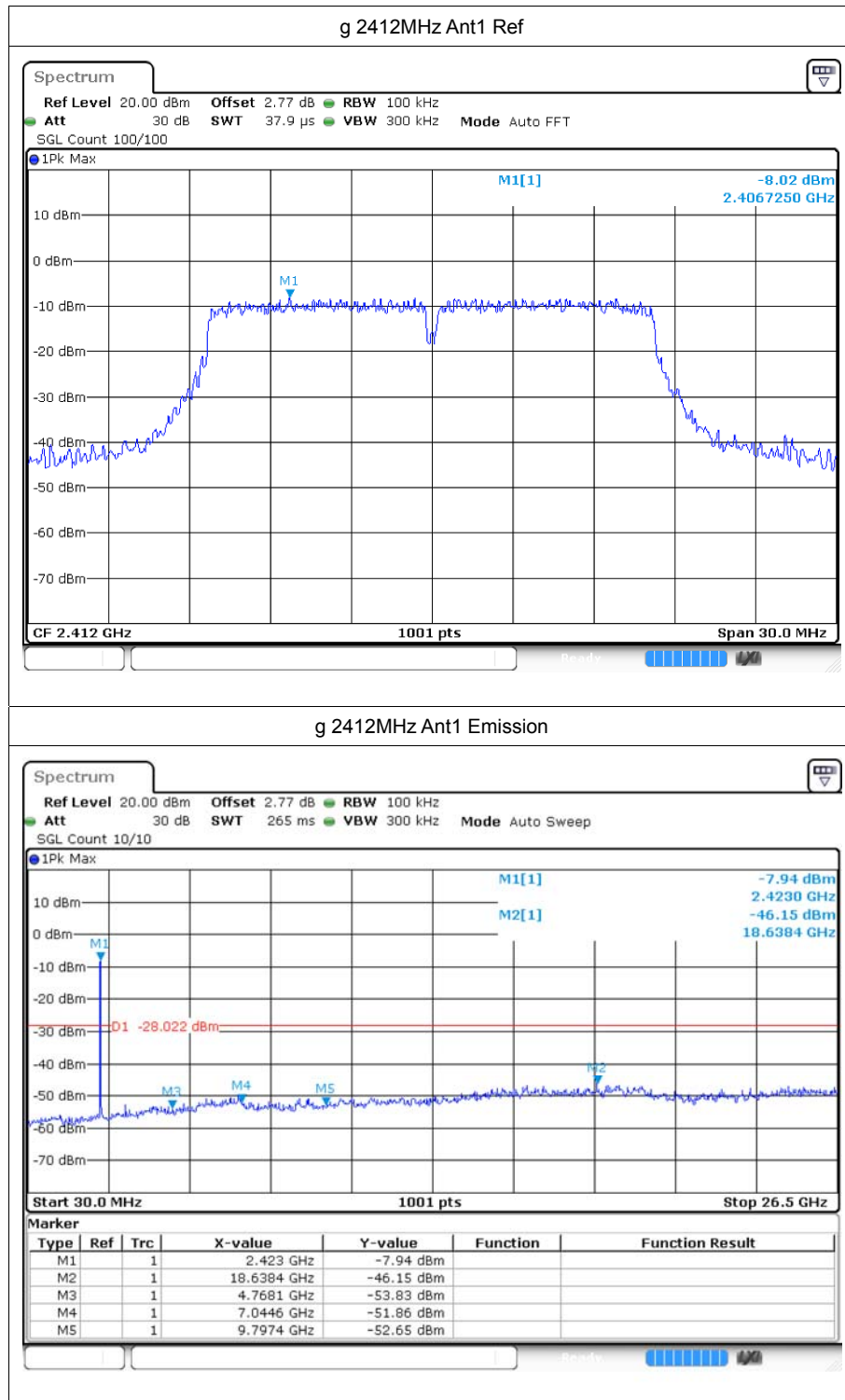
Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
b	2412	Ant1	-45.39	-20	Pass
b	2437	Ant1	-43.11	-20	Pass
b	2462	Ant1	-44.45	-20	Pass
g	2412	Ant1	-38.13	-20	Pass
g	2437	Ant1	-38.02	-20	Pass
g	2462	Ant1	-37.38	-20	Pass
n20	2412	Ant1	-40.58	-20	Pass
n20	2437	Ant1	-37.23	-20	Pass
n20	2462	Ant1	-37.6	-20	Pass

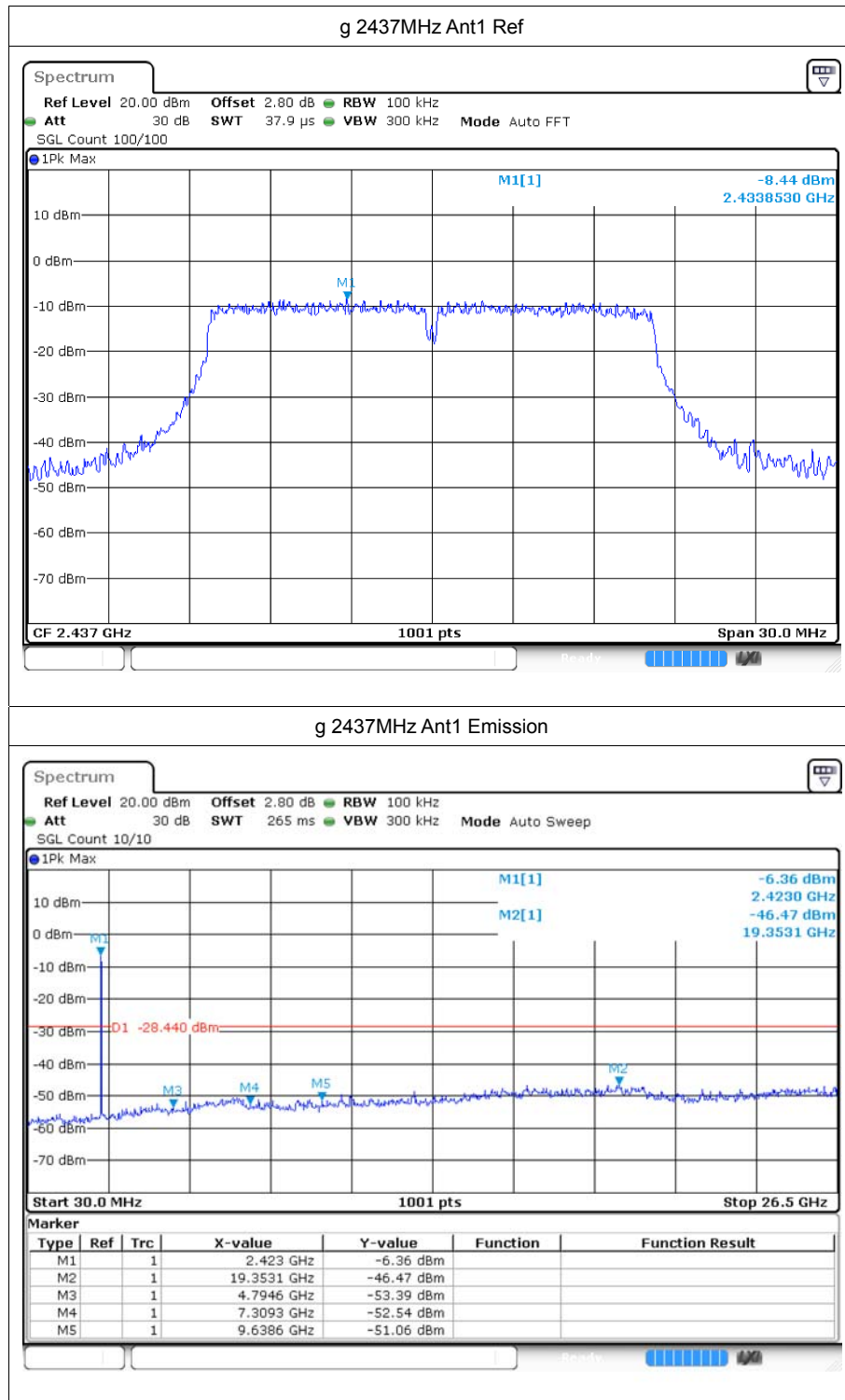
6.2 Test Graphs

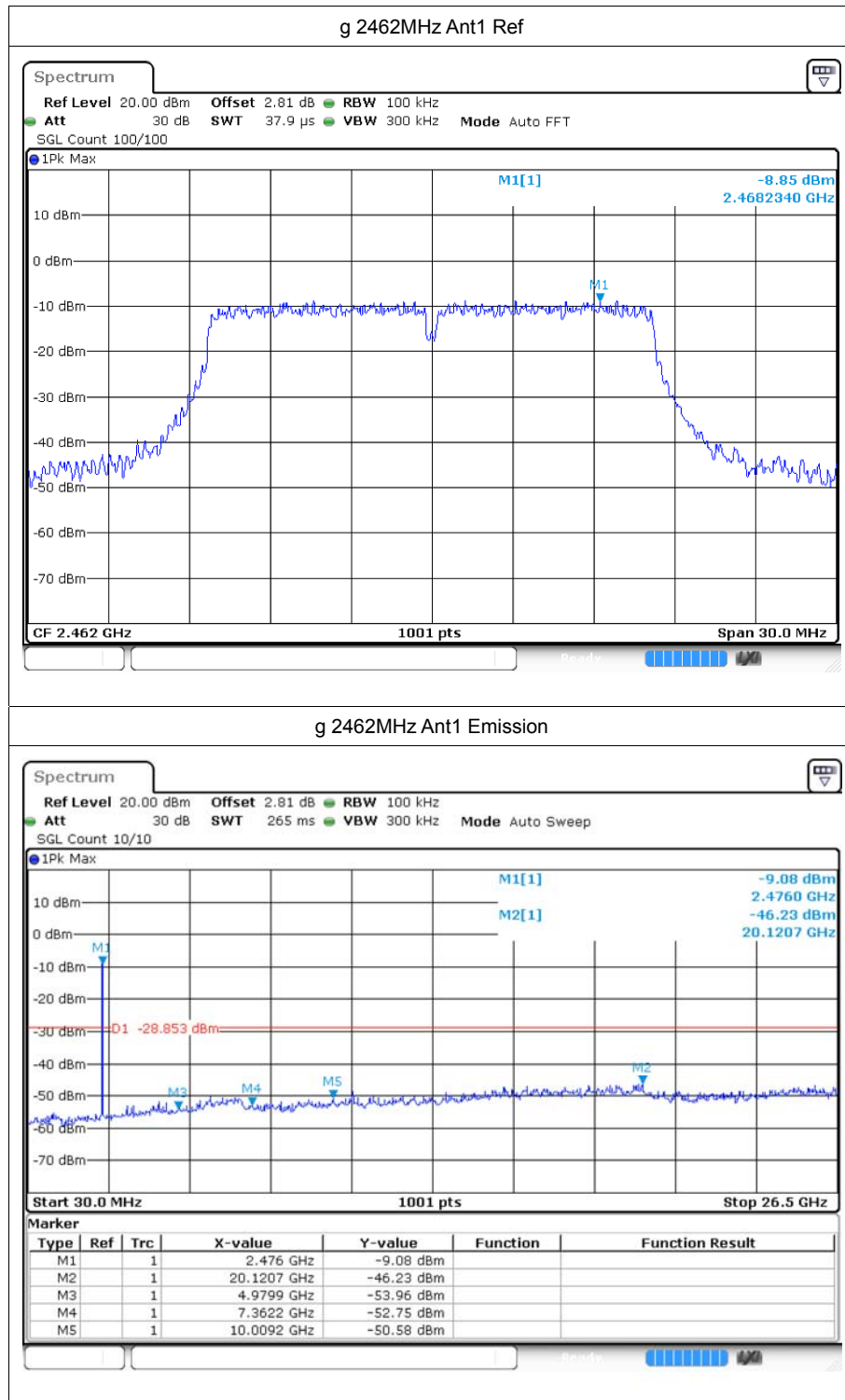


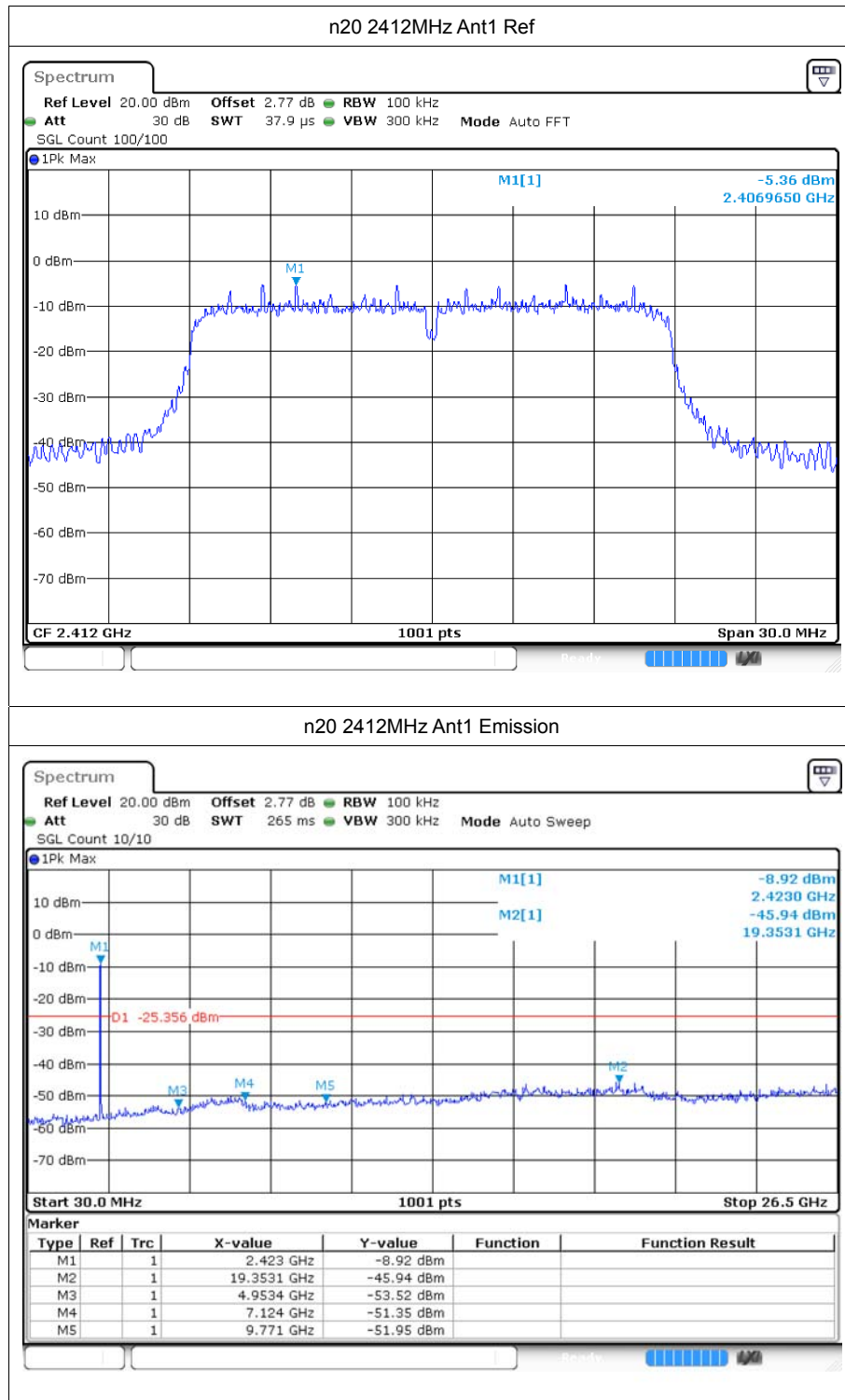


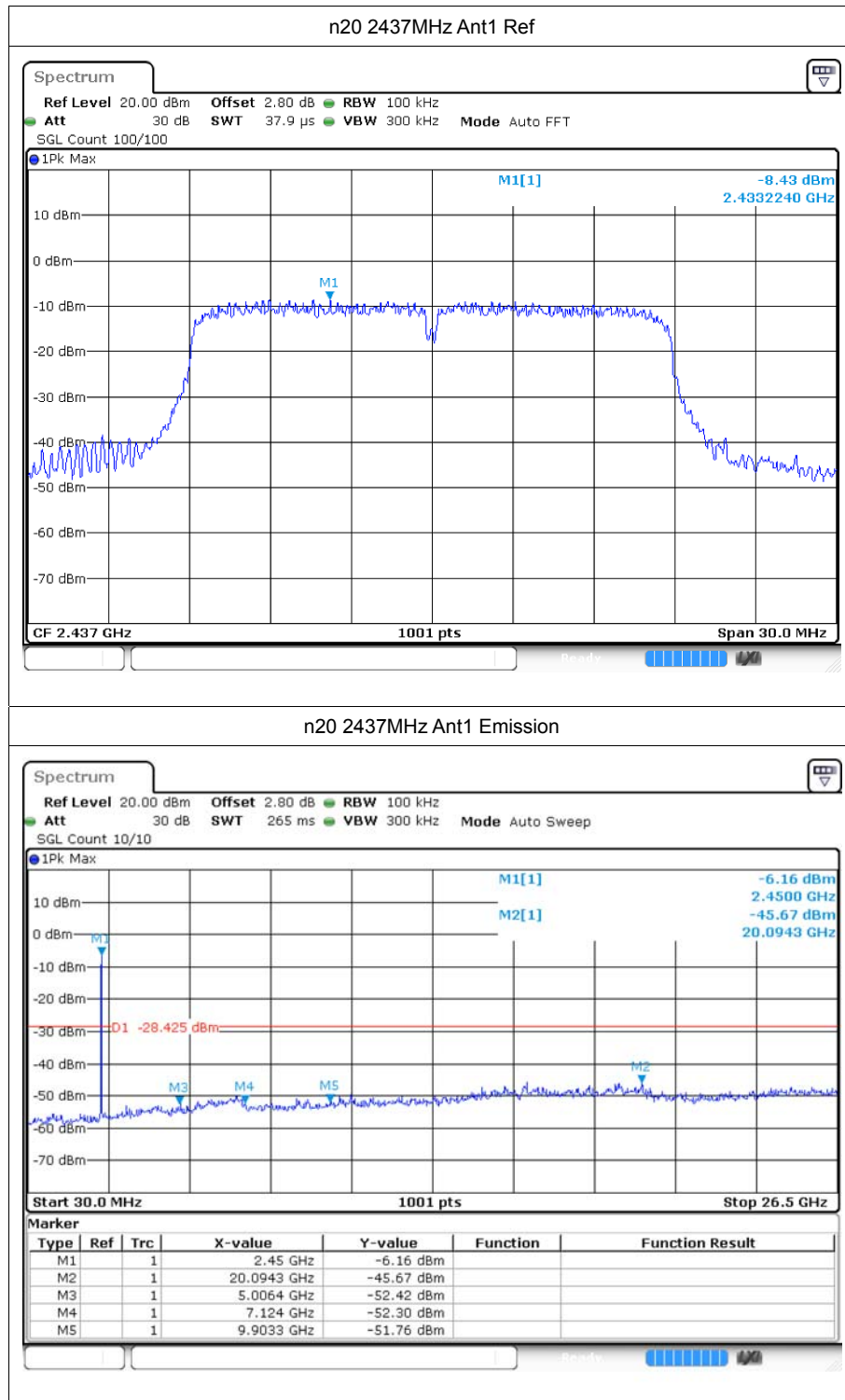


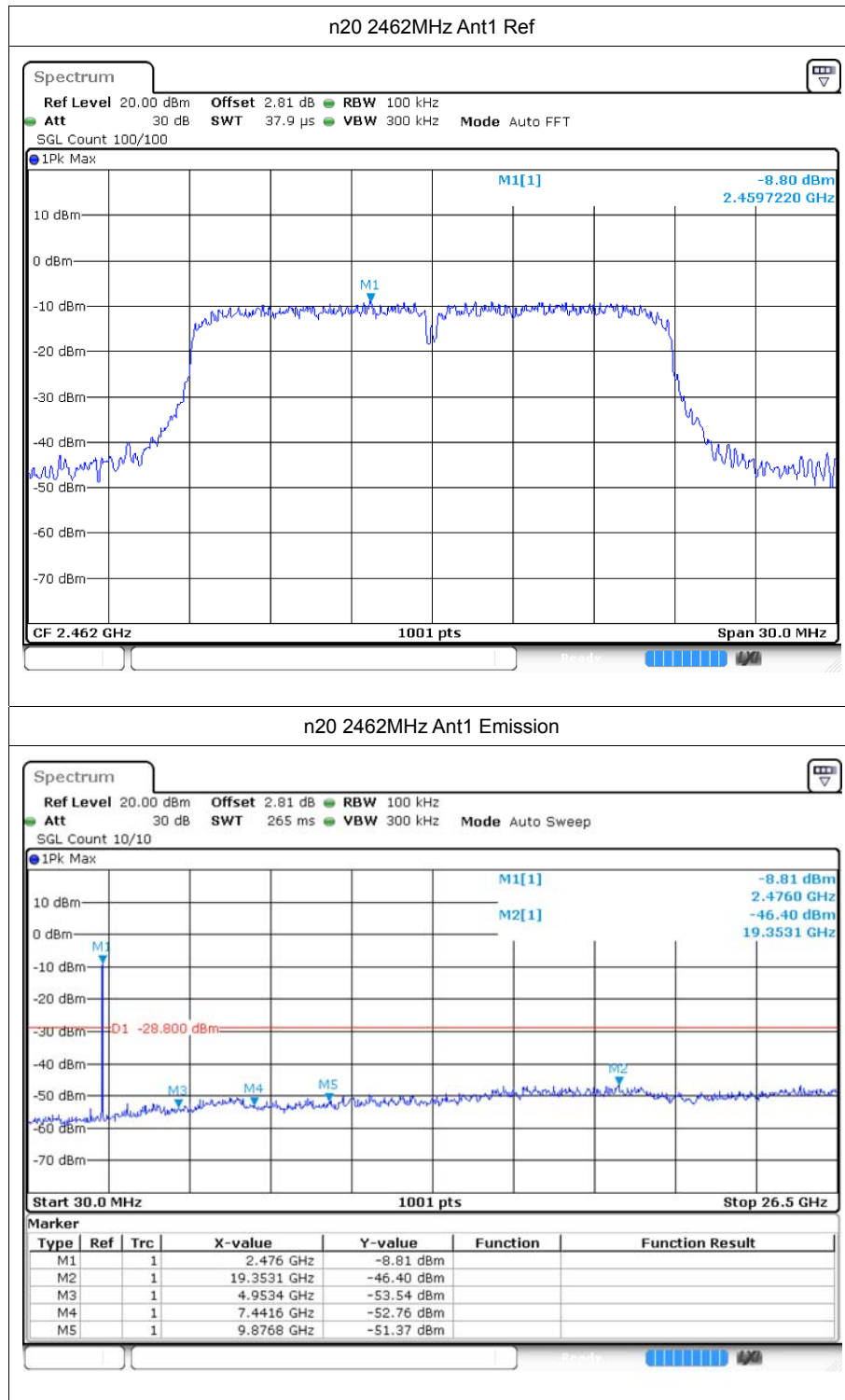














7 Restrict Band

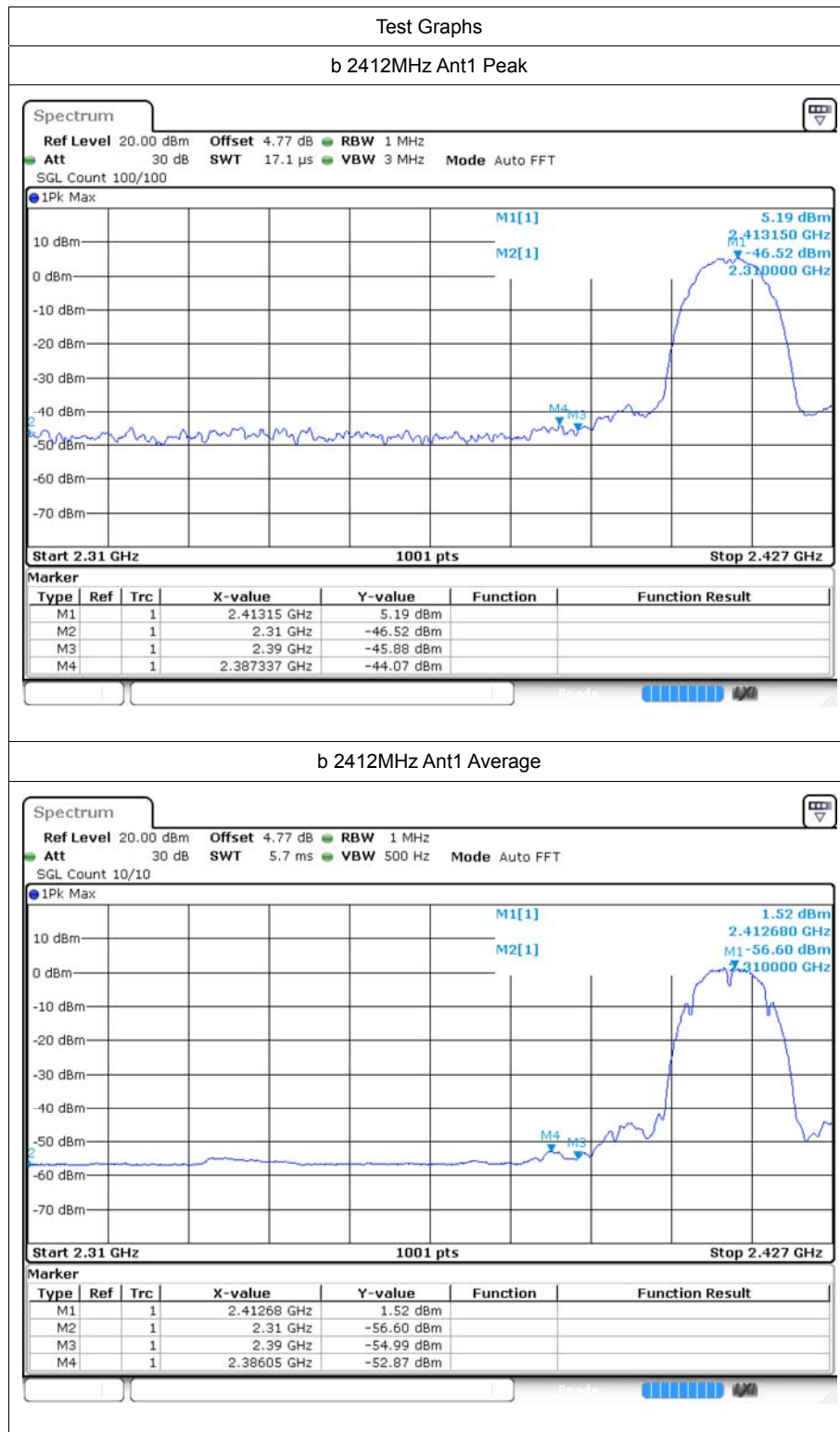
7.1 Test Result

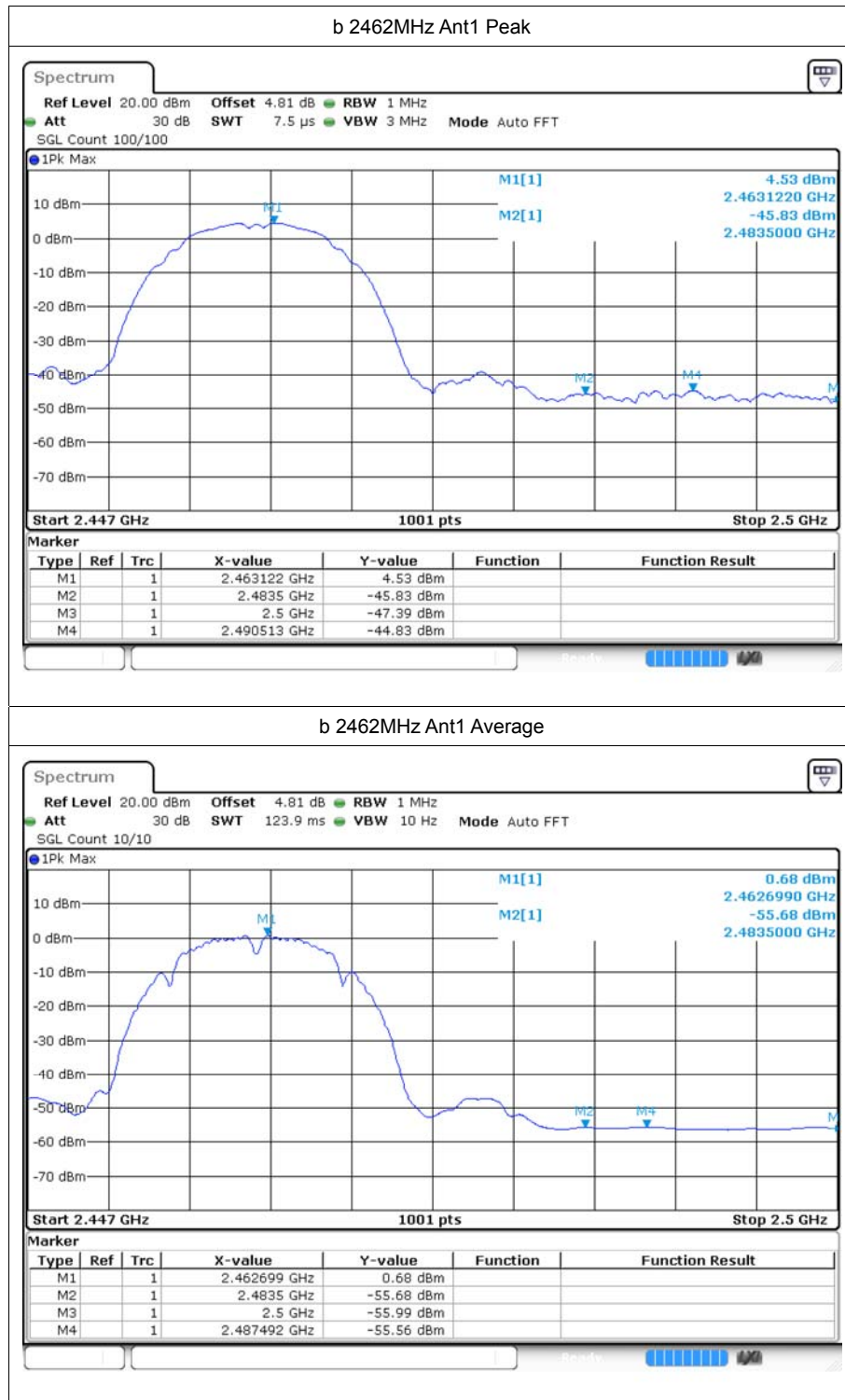
Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
b	2412	Ant1	2310	-46.51	2	50.75	Peak	74	Pass
b	2412	Ant1	2310	-56.59	2	40.67	Average	54	Pass
b	2412	Ant1	2387.337	-44.07	2	53.19	Peak	74	Pass
b	2412	Ant1	2386.05	-52.86	2	44.4	Average	54	Pass
b	2412	Ant1	2390	-45.87	2	51.39	Peak	74	Pass
b	2412	Ant1	2390	-54.99	2	42.27	Average	54	Pass
b	2462	Ant1	2483.5	-45.83	2	51.43	Peak	74	51.43
b	2462	Ant1	2483.5	-55.67	2	41.59	Average	54	Pass
b	2462	Ant1	2490.513	-44.82	2	52.44	Peak	74	Pass
b	2462	Ant1	2487.492	-55.55	2	41.71	Average	54	Pass
b	2462	Ant1	2500	-47.39	2	49.87	Peak	74	Pass
b	2462	Ant1	2500	-55.99	2	41.27	Average	54	Pass
g	2412	Ant1	2310	-49.03	2	48.23	Peak	74	Pass
g	2412	Ant1	2310	-56.04	2	41.22	Average	54	Pass
g	2412	Ant1	2389.911	-34.28	2	62.98	Peak	74	Pass
g	2412	Ant1	2389.443	-49.51	2	47.75	Average	54	Pass
g	2412	Ant1	2390	-33.46	2	51.39	Peak	74	Pass
g	2412	Ant1	2390	-49.98	2	47.28	Average	54	Pass
g	2462	Ant1	2483.5	-41.07	2	56.19	Peak	74	Pass
g	2462	Ant1	2483.5	-51.6	2	45.66	Average	54	Pass
g	2462	Ant1	2490.513	-40.57	2	56.69	Peak	74	Pass
g	2462	Ant1	2484.365	-51.52	2	45.74	Average	54	Pass
g	2462	Ant1	2500	-47.36	2	49.87	Peak	74	Pass
g	2462	Ant1	2500	-55.7	2	41.56	Average	54	Pass
n20	2412	Ant1	2310	-48.81	2	48.45	Peak	74	Pass
n20	2412	Ant1	2310	-56.16	2	41.1	Average	54	Pass
n20	2412	Ant1	2387.22	-36.76	2	60.5	Peak	74	Pass
n20	2412	Ant1	2389.911	-48.6	2	48.66	Average	54	Pass
n20	2412	Ant1	2390	-37.63	2	59.63	Peak	74	Pass
n20	2412	Ant1	2390	-48.36	2	48.9	Average	54	Pass
n20	2462	Ant1	2483.5	-35.74	2	61.52	Peak	74	Pass
n20	2462	Ant1	2483.5	-50.75	2	46.51	Average	54	Pass
n20	2462	Ant1	2483.517	-35.74	2	61.52	Peak	74	Pass
n20	2462	Ant1	2484.047	-50.33	2	46.93	Average	54	Pass



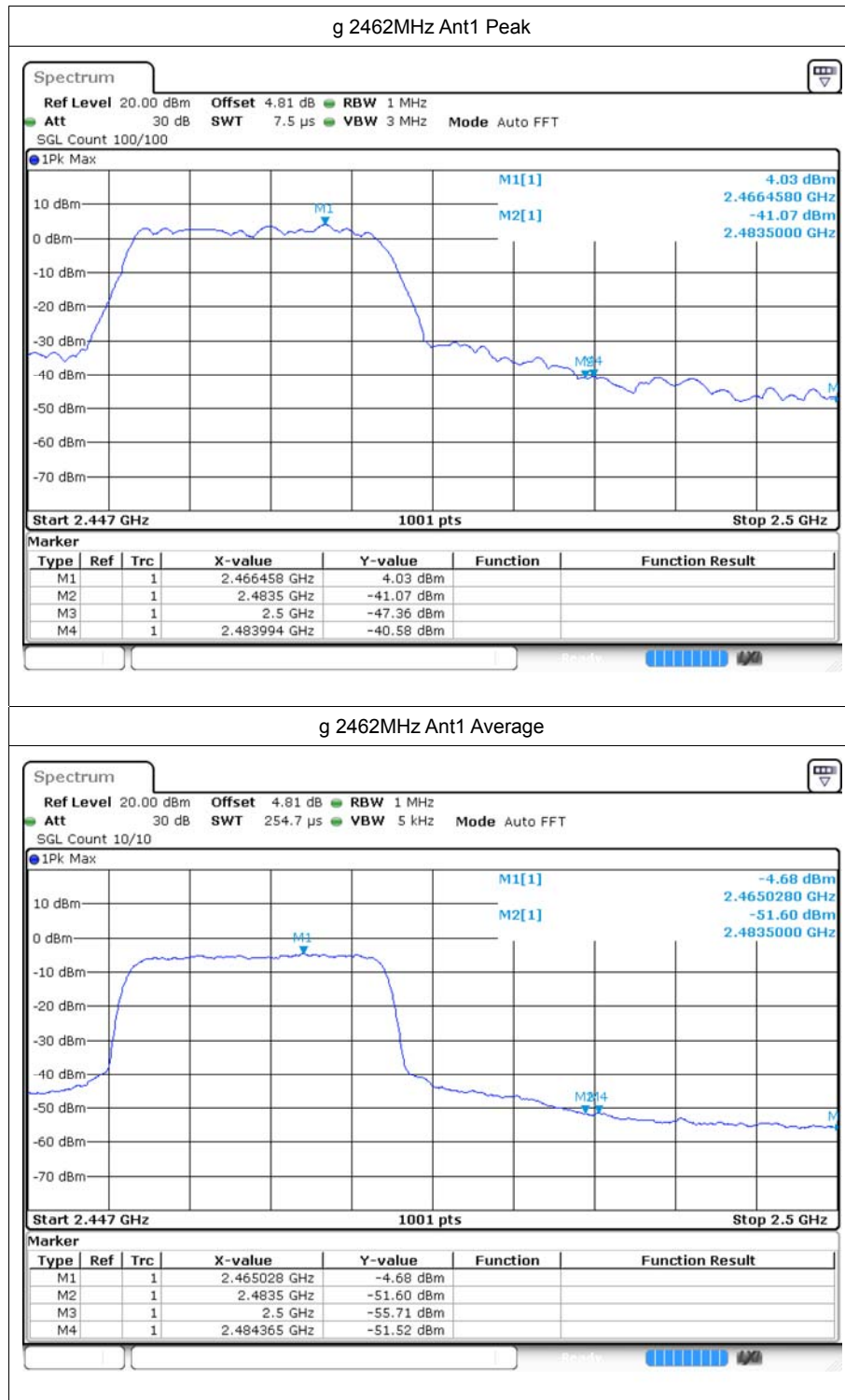
n20	2462	Ant1	2500	-47.53	2	49.73	Peak	74	Pass
n20	2462	Ant1	2500	-55.1	2	42.16	Average	54	Pass

7.2 Test Graphs













---The End---