



Appendix C

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: Trail Camera

Trade Mark: N/A

Test Model: PH820W

Environmental Conditions

Temperature:	25.8° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Simba Huang
Supervised by:	Seal Chen



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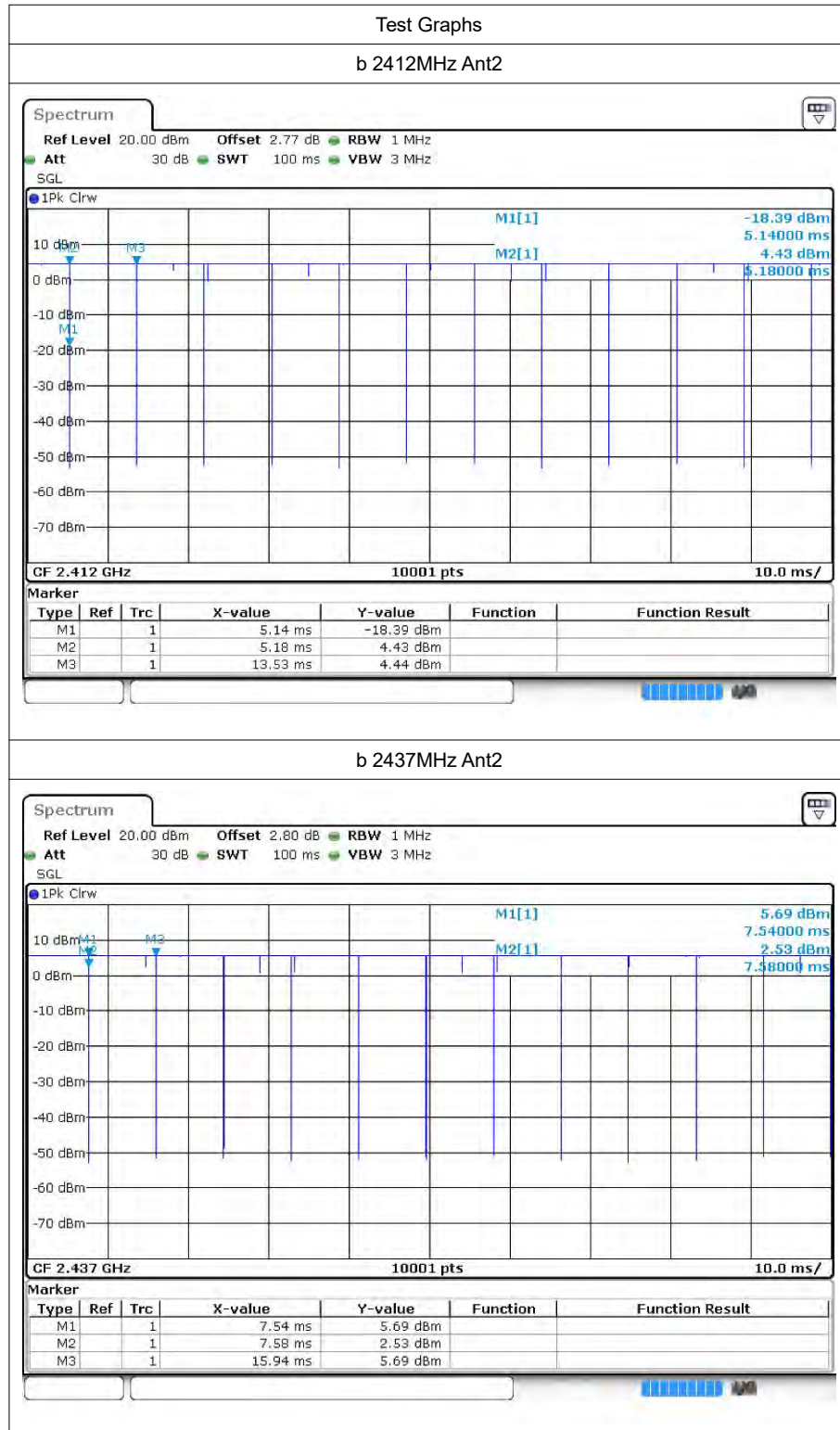


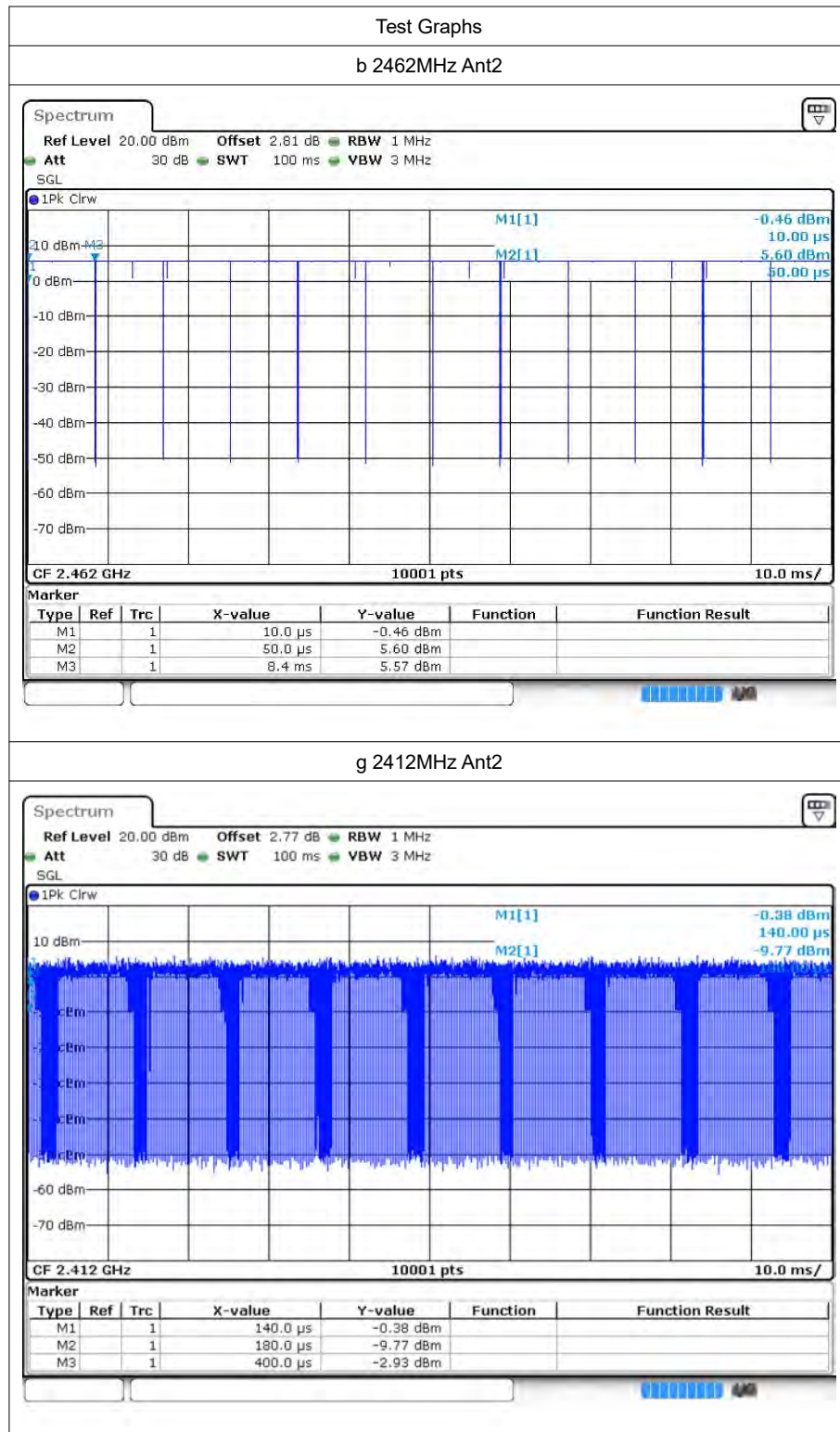
1 Duty Cycle

1.1 Test Result

Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	1/T (kHz)
b	2412	Ant2	99.61	0.12
b	2437	Ant2	99.6	0.12
b	2462	Ant2	99.6	0.12
g	2412	Ant2	86.92	4.55
g	2437	Ant2	87	4.55
g	2462	Ant2	87.05	4.76
n20	2412	Ant2	87.56	4.35
n20	2437	Ant2	87.3	4.35
n20	2462	Ant2	87.59	4.17

1.2 Test Graphs



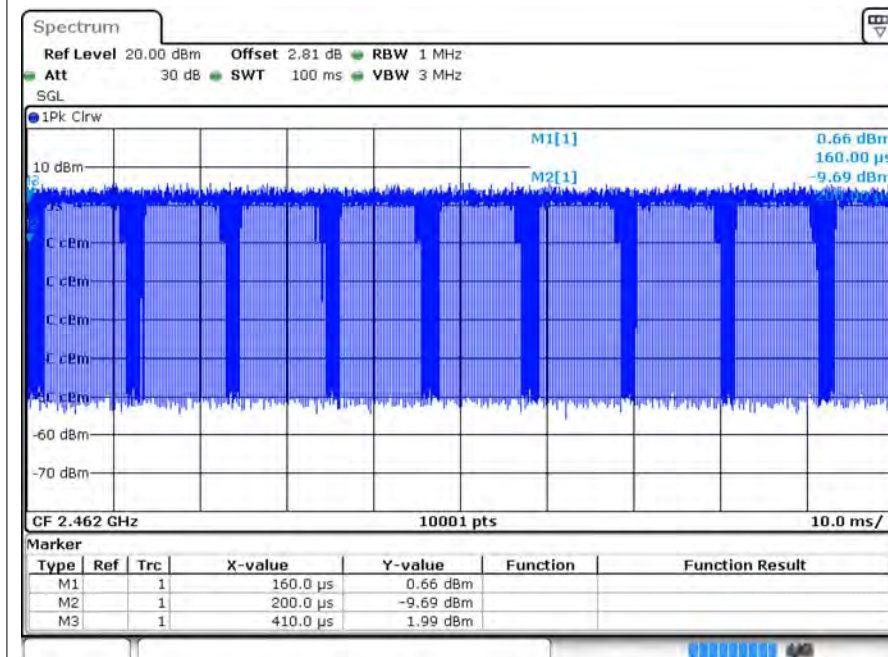


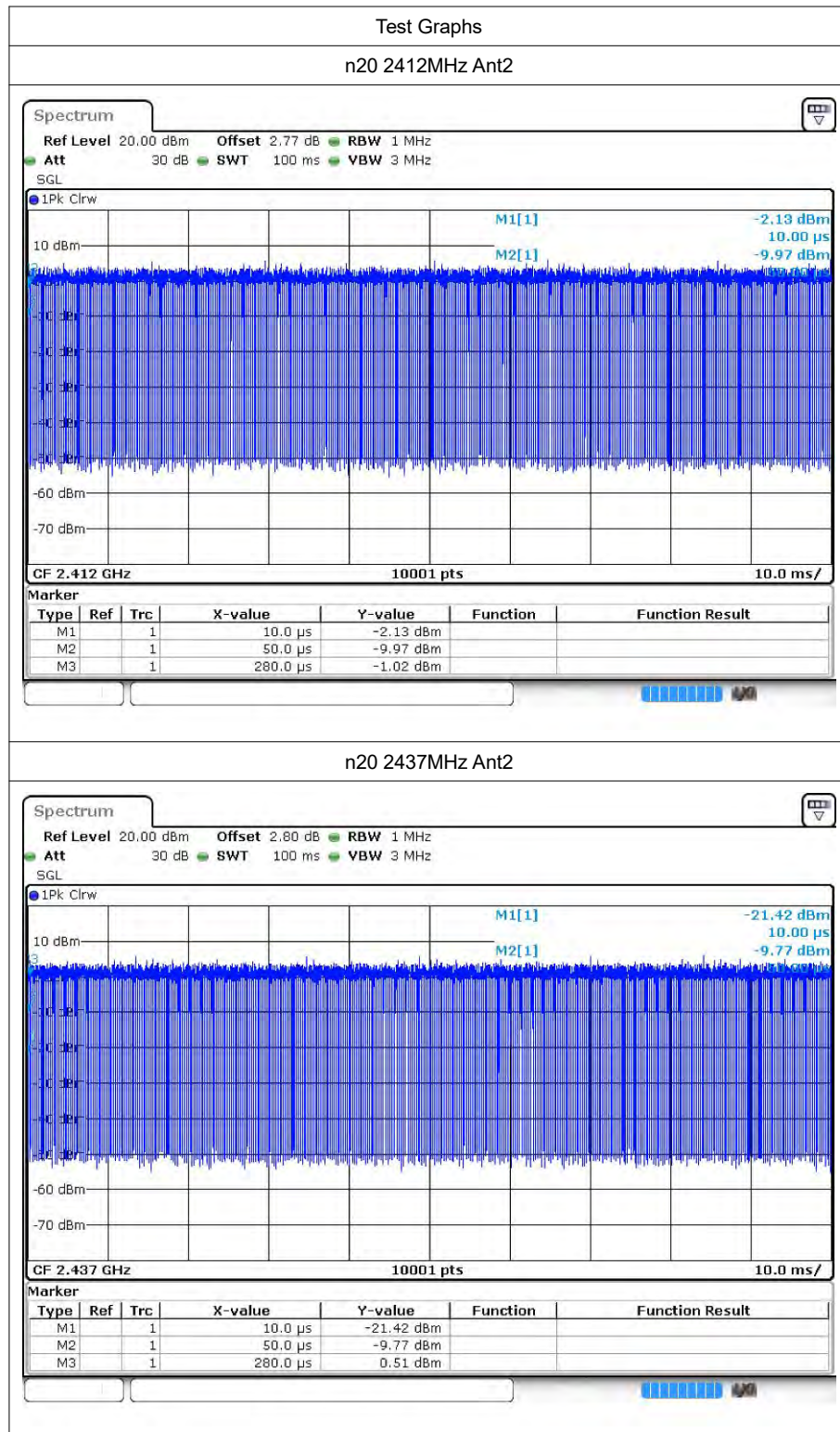
Test Graphs

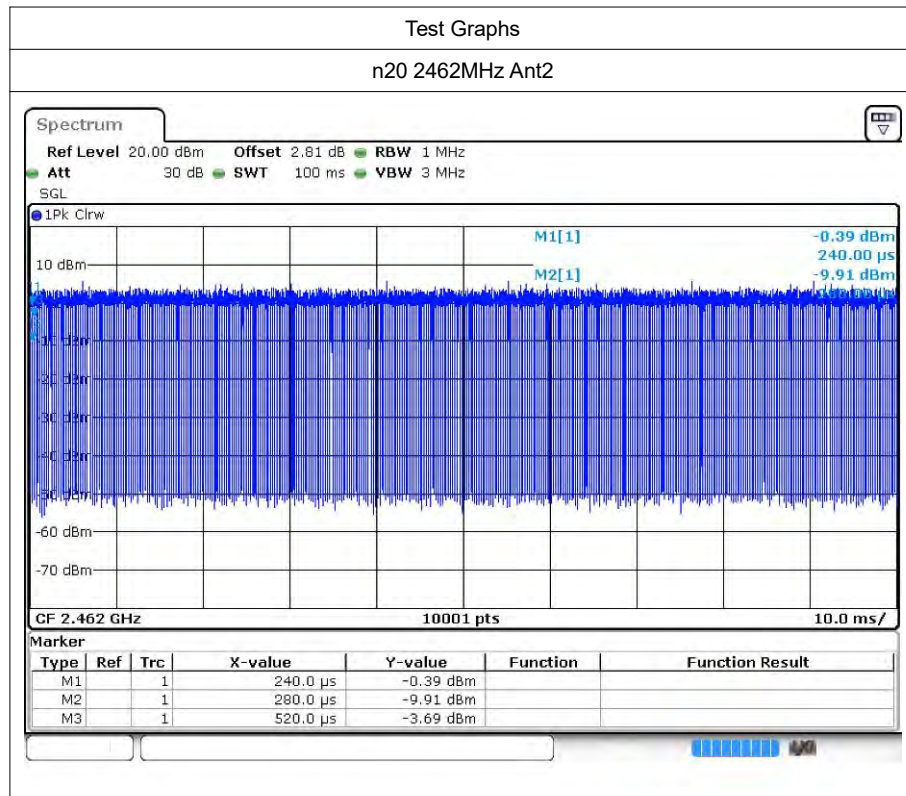
g 2437MHz Ant2



g 2462MHz Ant2









2 Maximum Conducted Output Power

2.1 Test Result

Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
b	2412	Ant2	16.07	30	Pass
b	2437	Ant2	16.16	30	Pass
b	2462	Ant2	16.05	30	Pass
g	2412	Ant2	15.27	30	Pass
g	2437	Ant2	15.31	30	Pass
g	2462	Ant2	15.22	30	Pass
n20	2412	Ant2	14.77	30	Pass
n20	2437	Ant2	14.8	30	Pass
n20	2462	Ant2	14.57	30	Pass

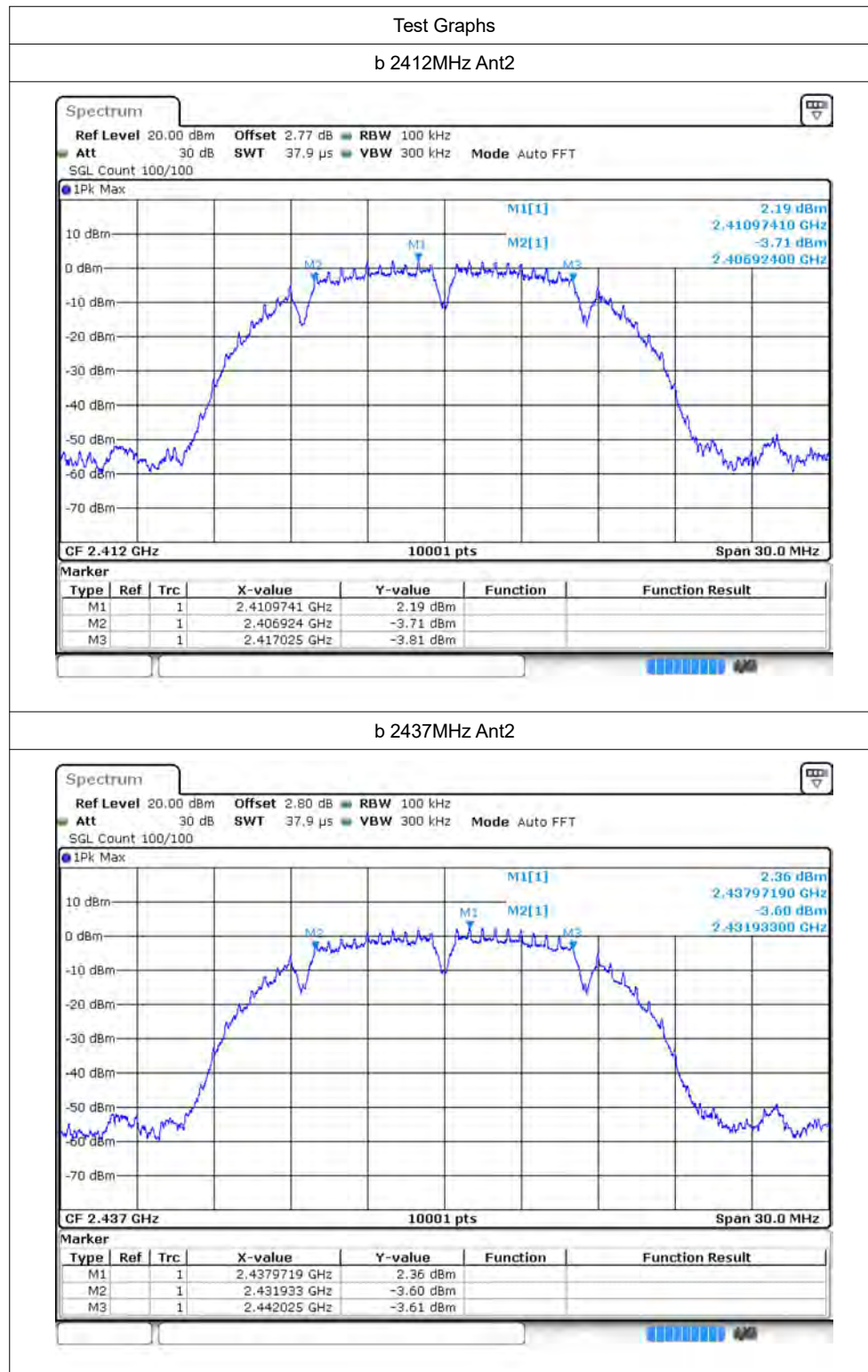


3 -6dB Bandwidth

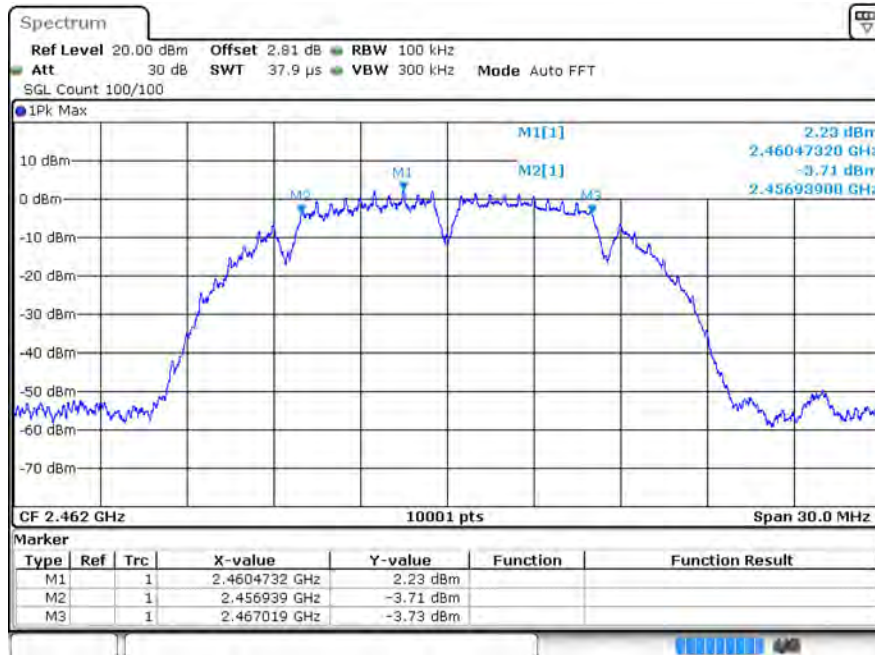
3.1 Test Result

Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
b	2412	Ant2	10.101	0.5	Pass
b	2437	Ant2	10.092	0.5	Pass
b	2462	Ant2	10.08	0.5	Pass
g	2412	Ant2	15.075	0.5	Pass
g	2437	Ant2	15.045	0.5	Pass
g	2462	Ant2	15.108	0.5	Pass
n20	2412	Ant2	15.087	0.5	Pass
n20	2437	Ant2	15.111	0.5	Pass
n20	2462	Ant2	15.111	0.5	Pass

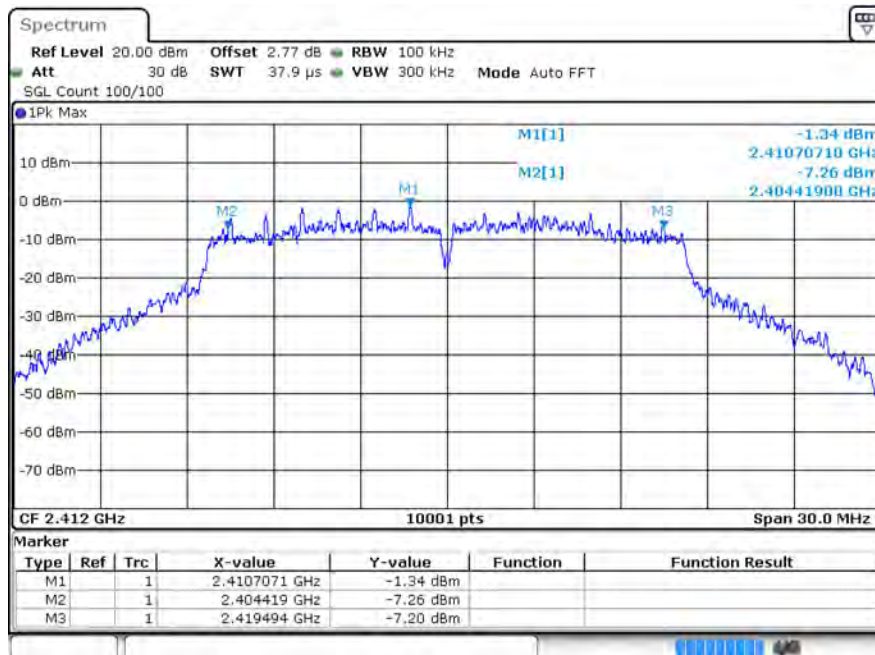
3.2 Test Graphs



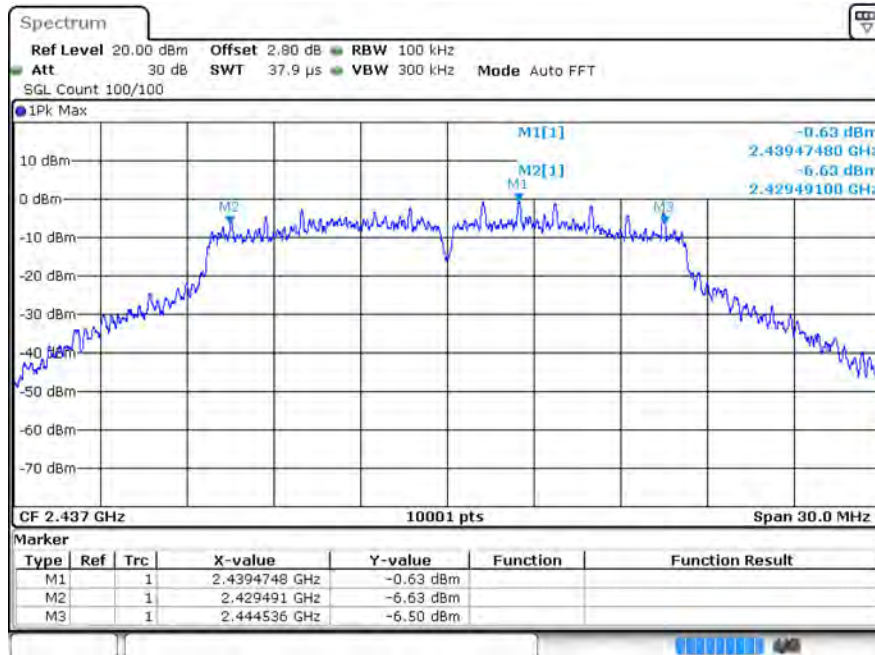
b 2462MHz Ant2



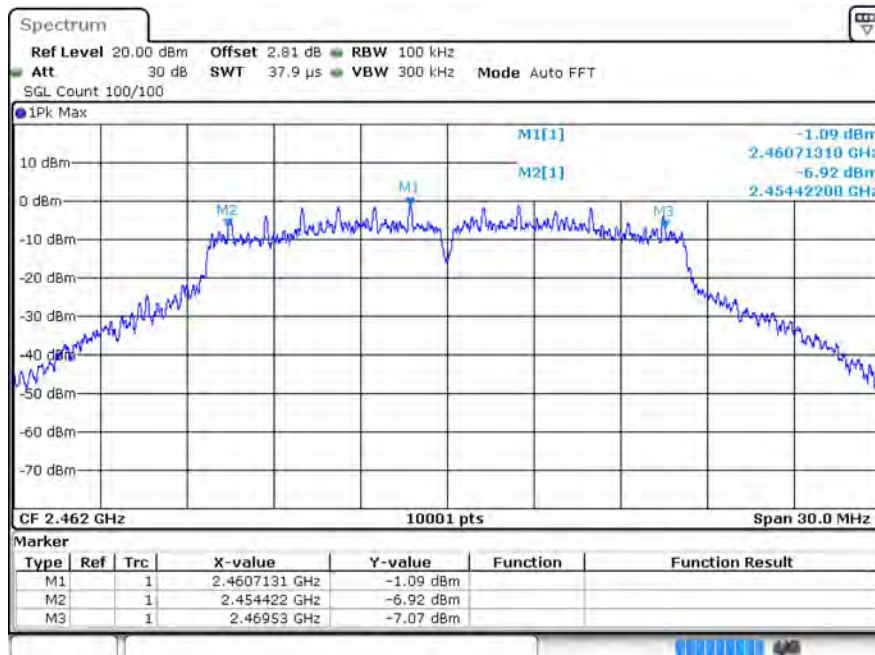
g 2412MHz Ant2



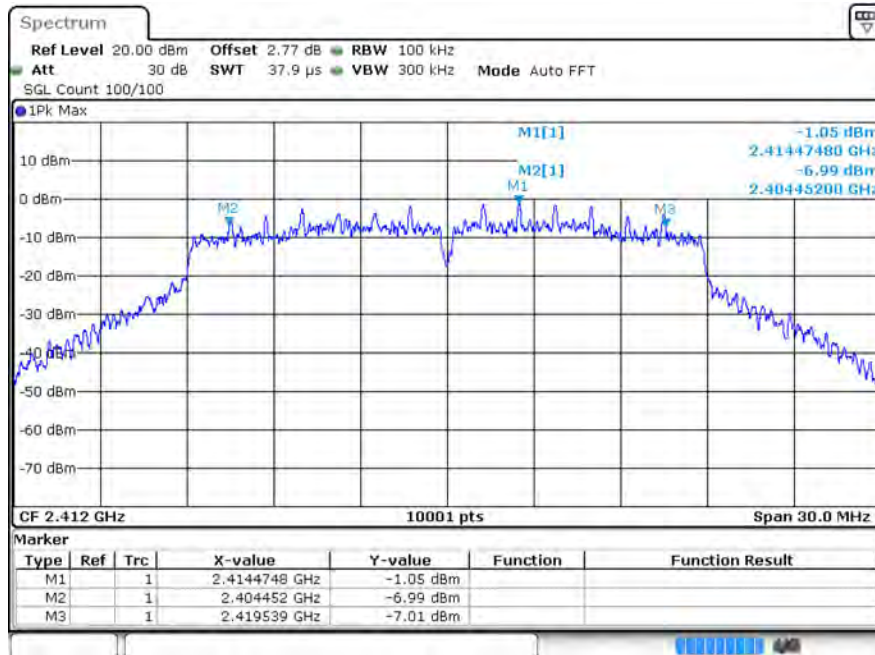
g 2437MHz Ant2



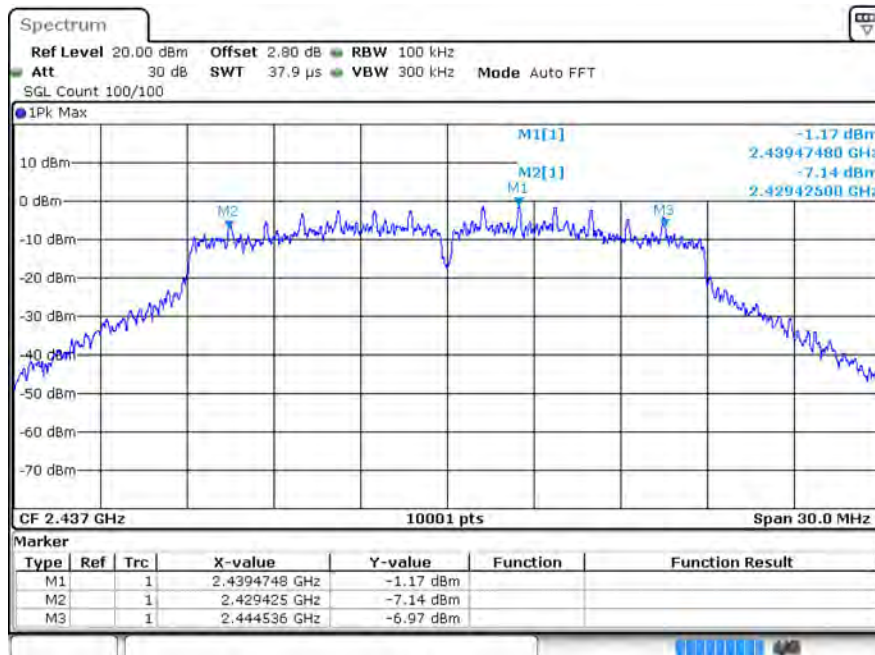
g 2462MHz Ant2

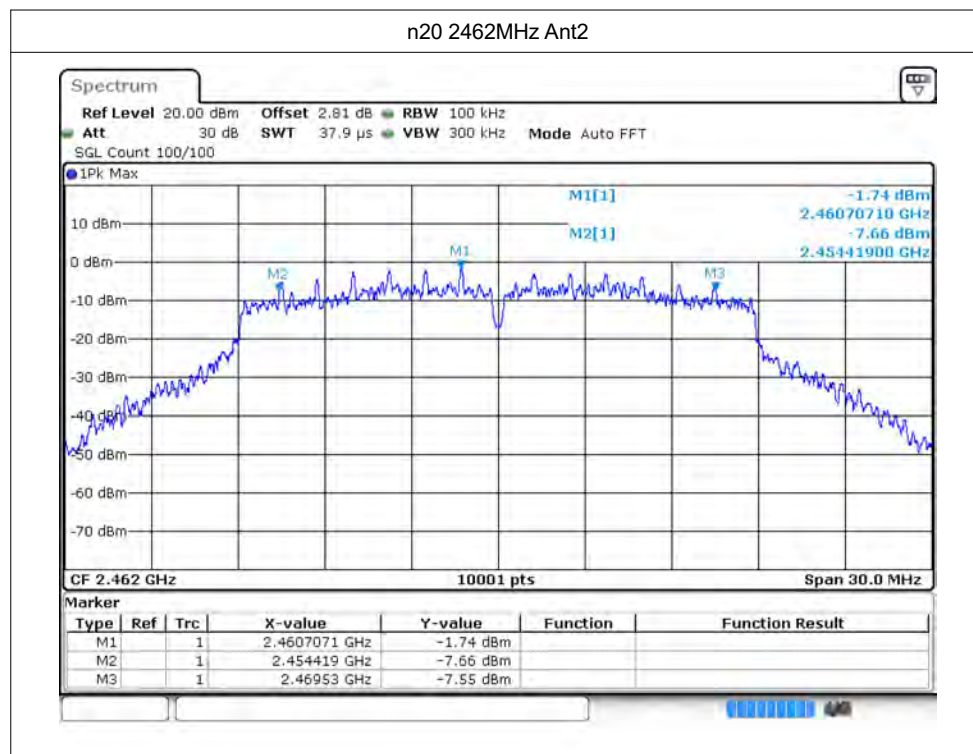


n20 2412MHz Ant2



n20 2437MHz Ant2



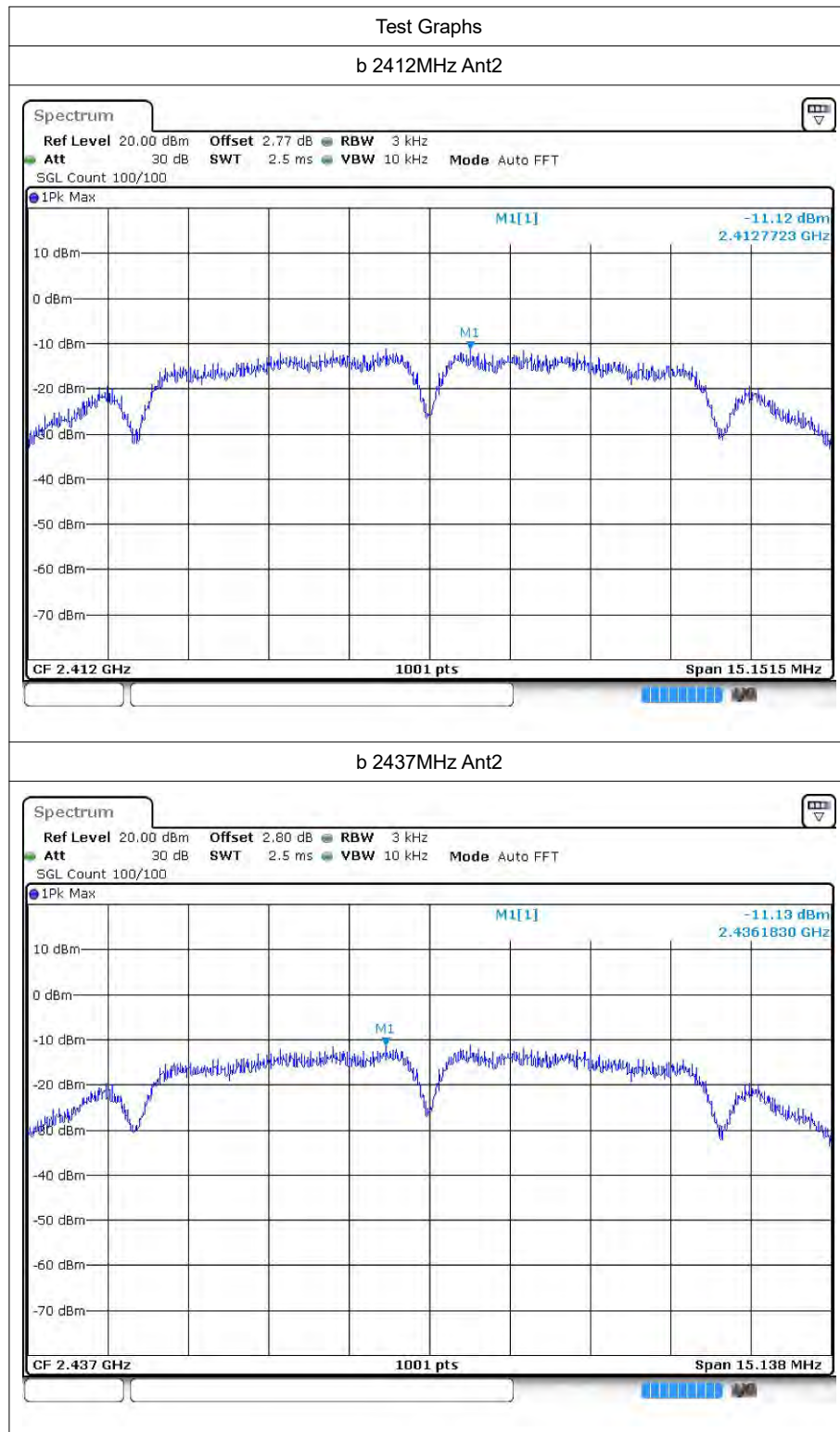


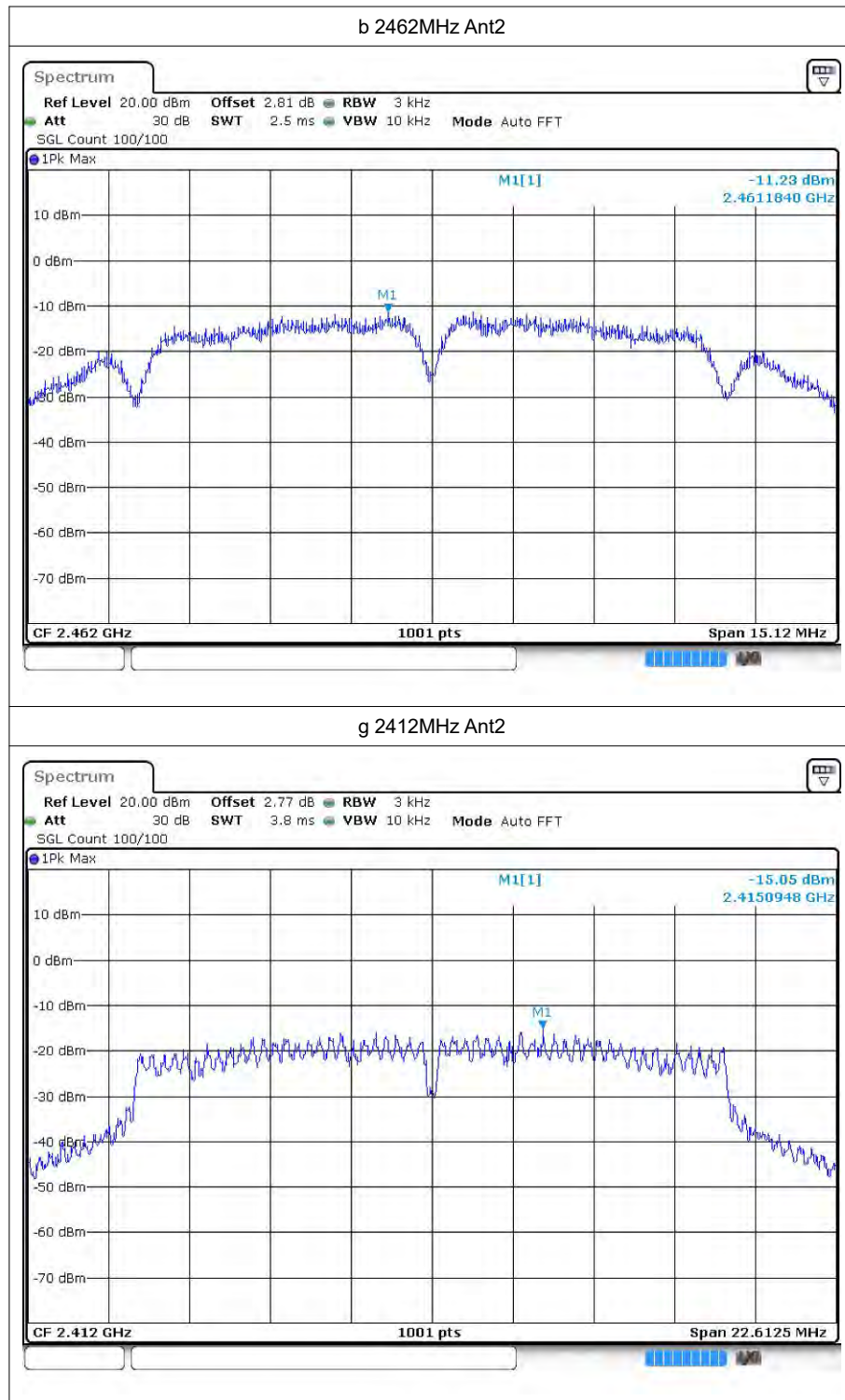
4 Maximum Power Spectral Density Level

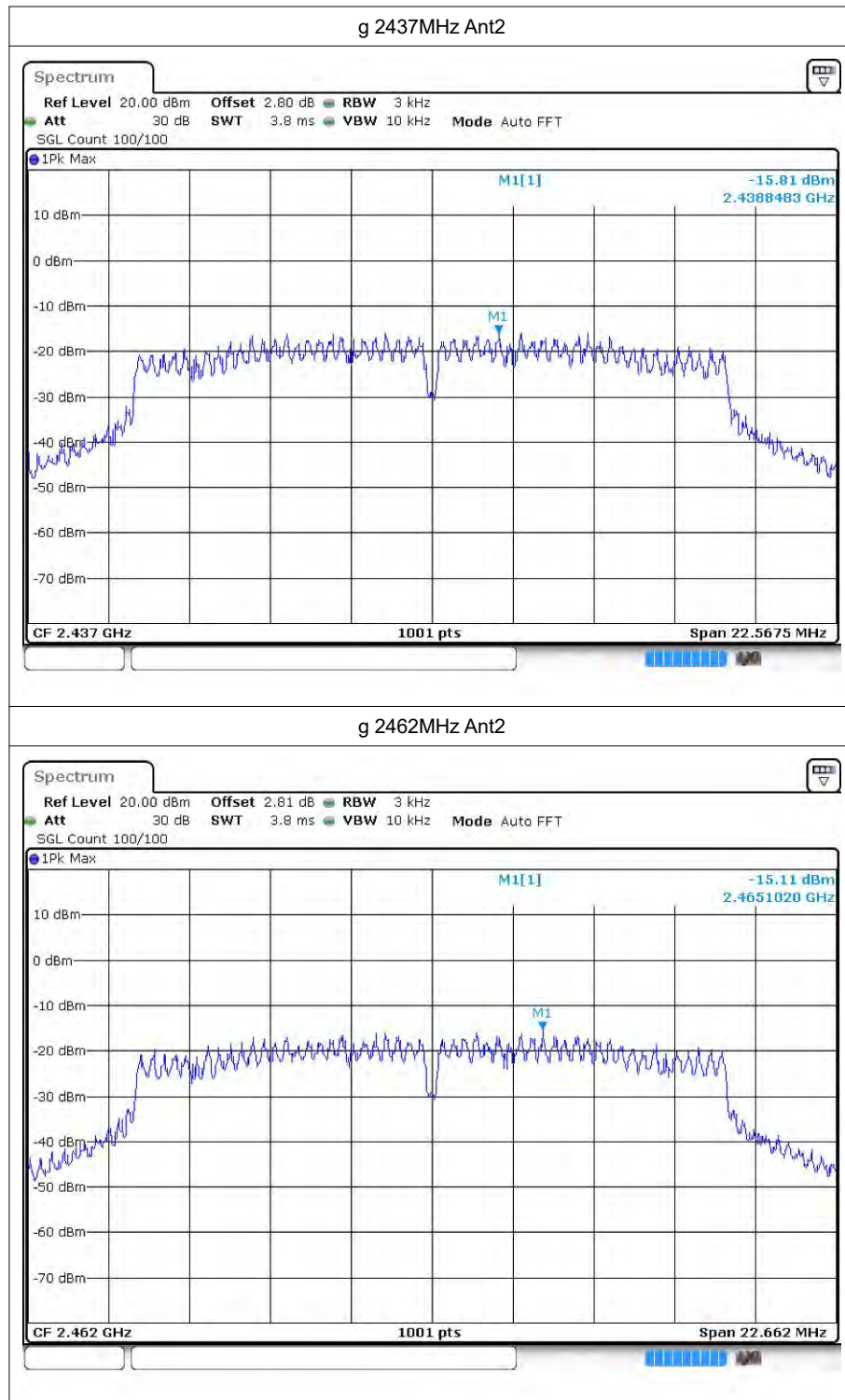
4.1 Test Result

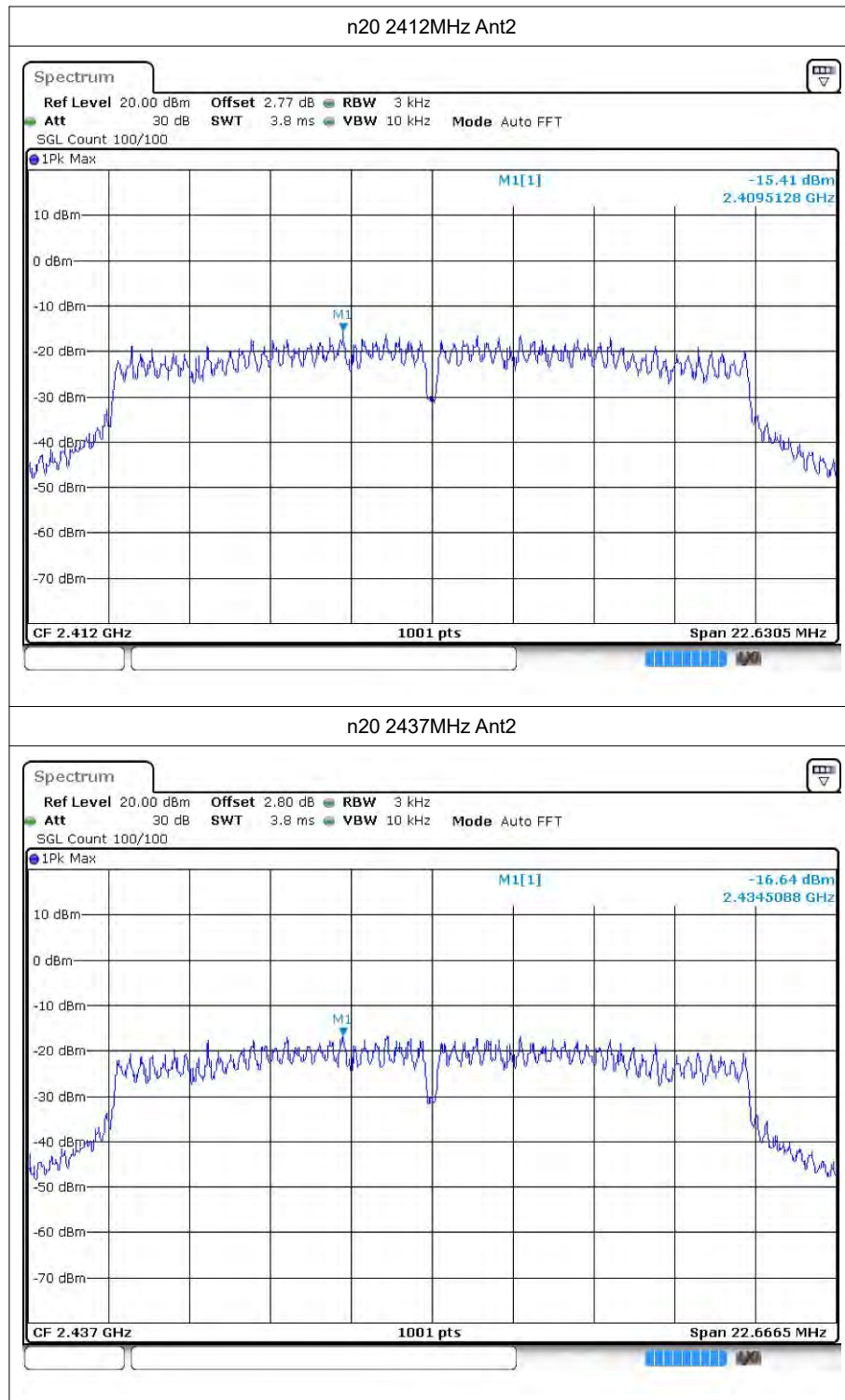
Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3-100kHz)	Limit (dBm/3kHz)	Verdict
b	2412	Ant2	-11.12	≤ 8	Pass
b	2437	Ant2	-11.13	≤ 8	Pass
b	2462	Ant2	-11.23	≤ 8	Pass
g	2412	Ant2	-15.05	≤ 8	Pass
g	2437	Ant2	-15.81	≤ 8	Pass
g	2462	Ant2	-15.11	≤ 8	Pass
n20	2412	Ant2	-15.41	≤ 8	Pass
n20	2437	Ant2	-16.64	≤ 8	Pass
n20	2462	Ant2	-16	≤ 8	Pass

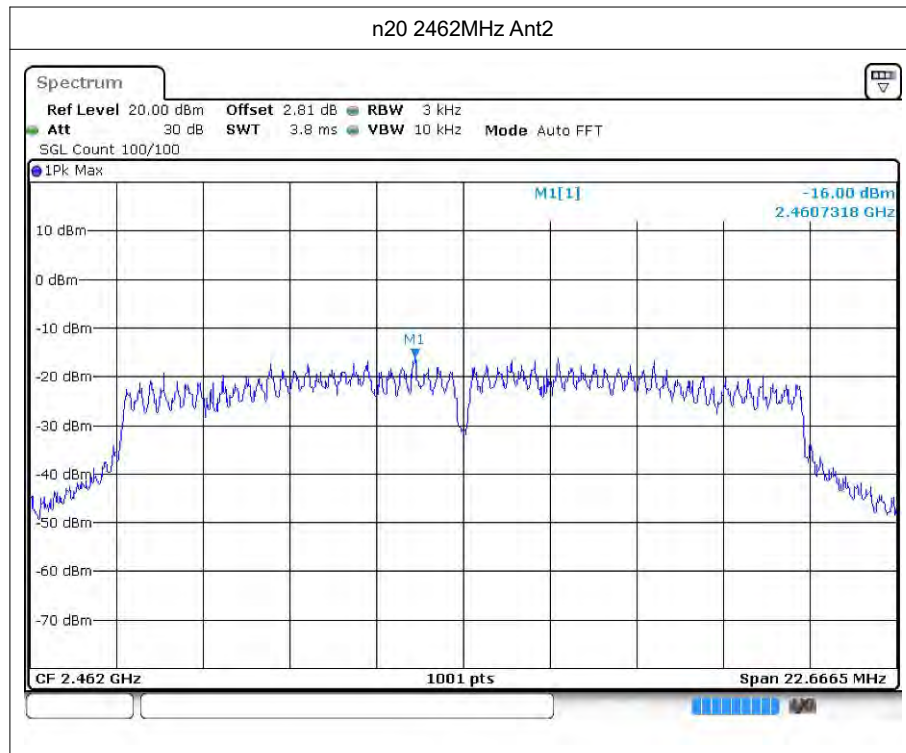
4.2 Test Graphs











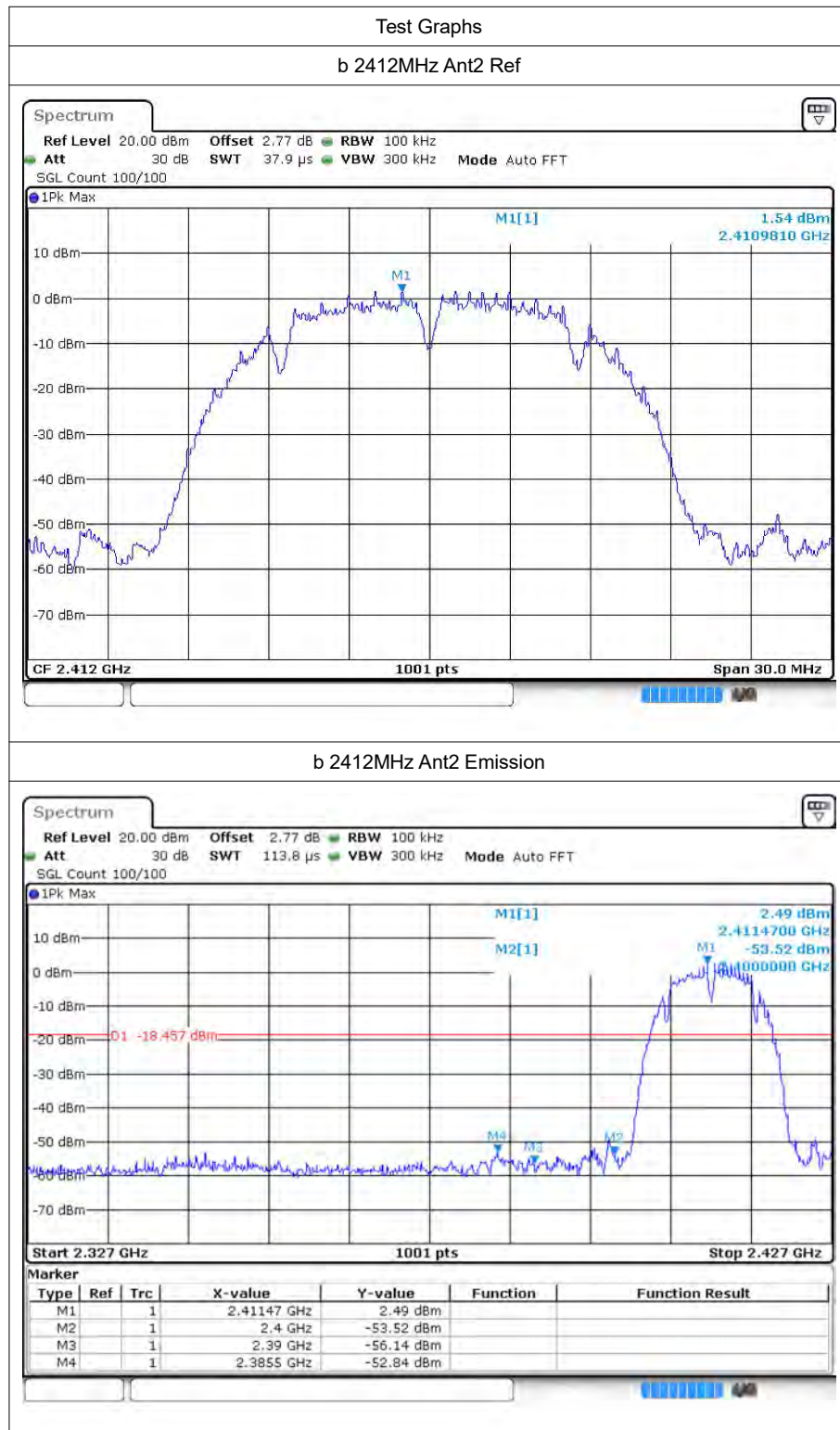


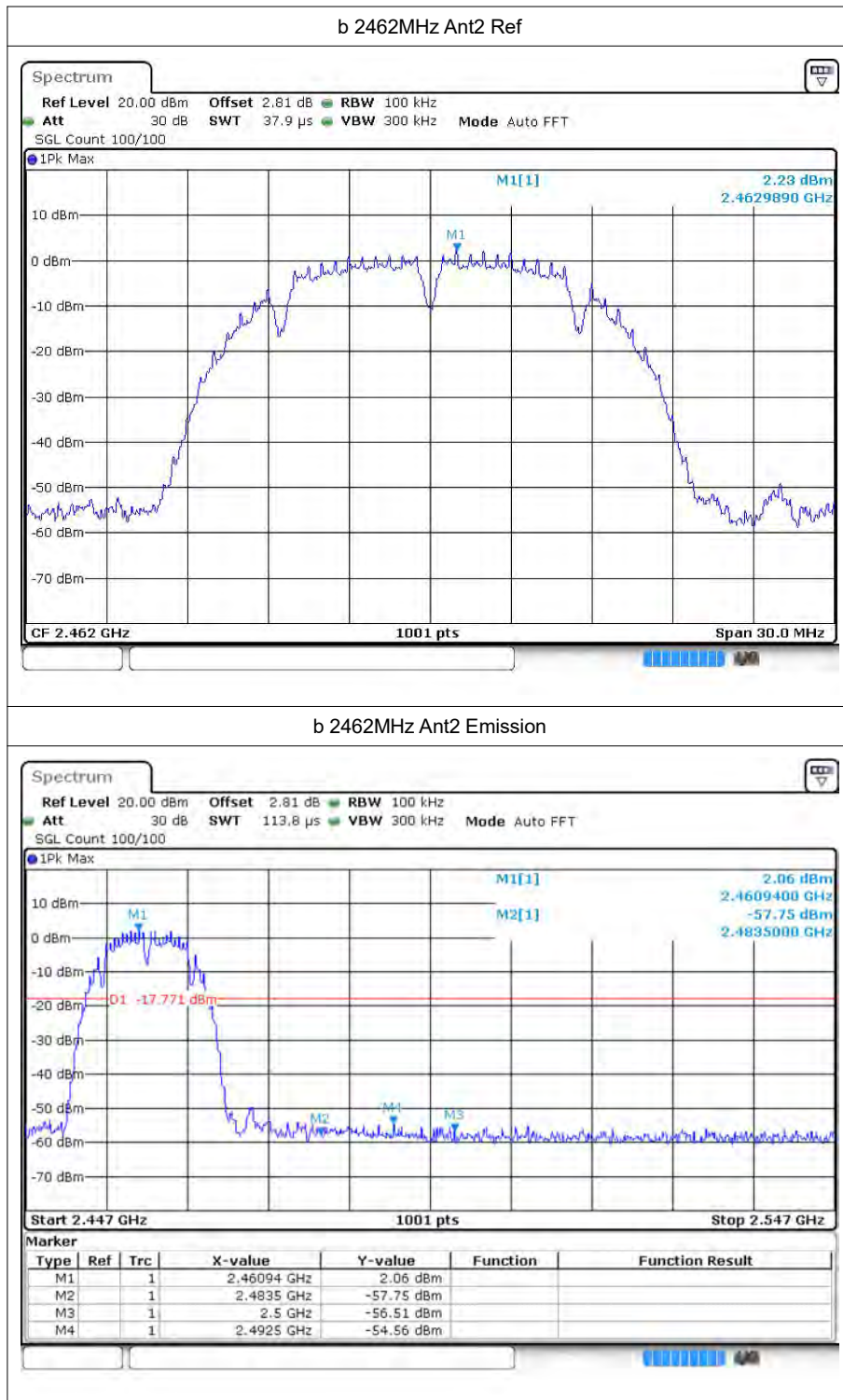
5 Band Edge

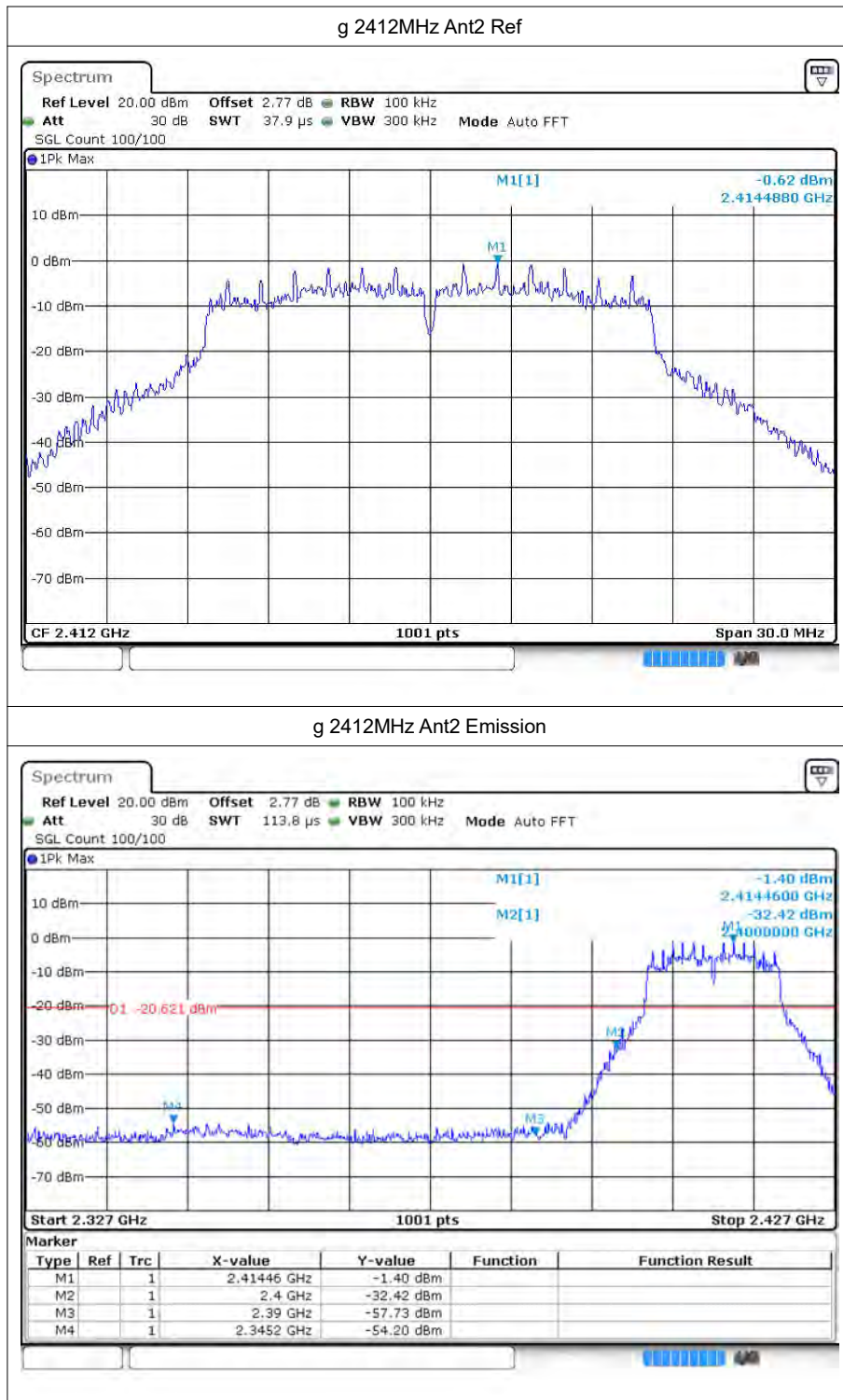
5.1 Test Result

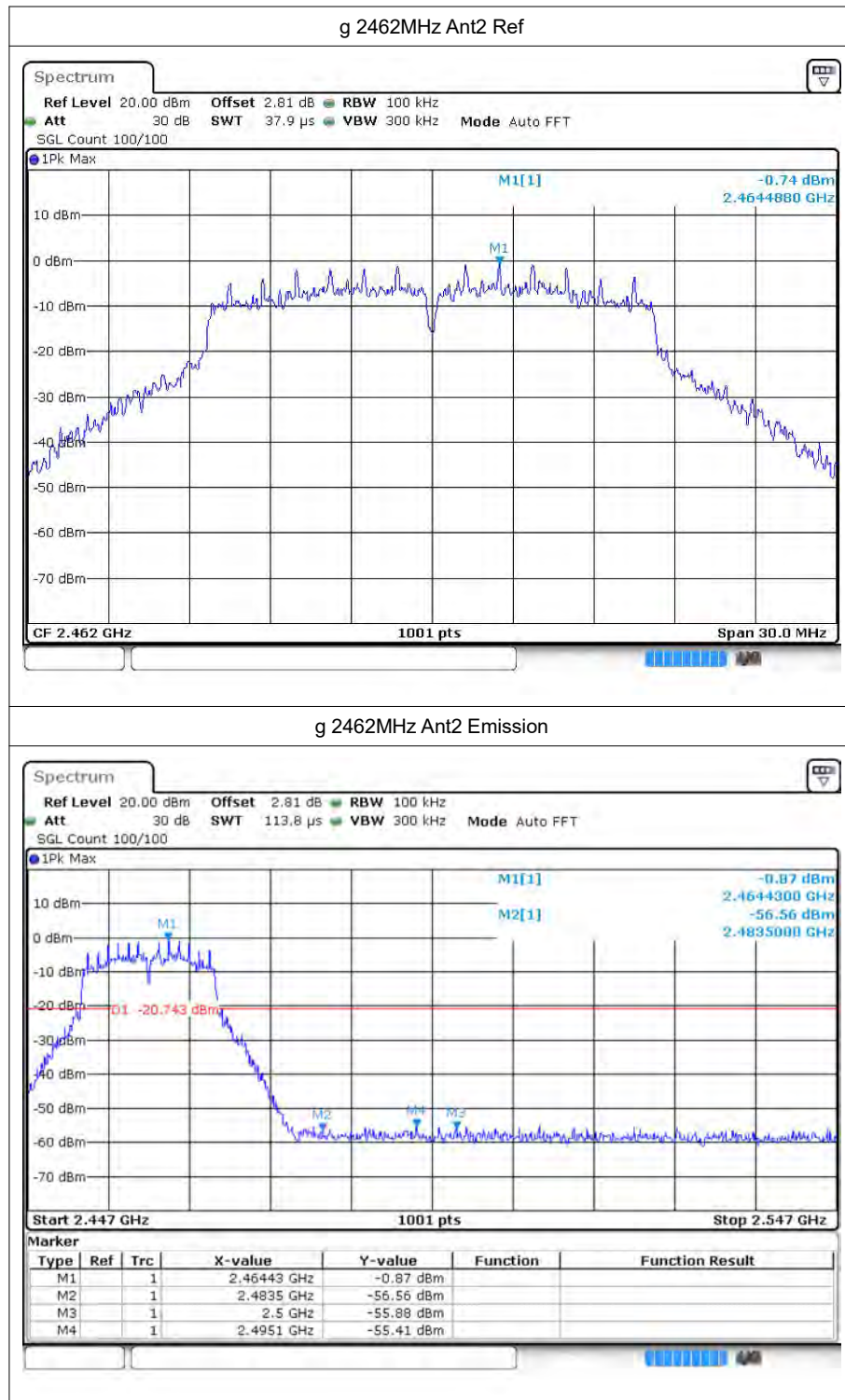
Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
b	2412	Ant2	-54.38	-20	-54.38
b	2462	Ant2	-56.79	-20	Pass
g	2412	Ant2	-53.57	-20	Pass
g	2462	Ant2	-54.67	-20	Pass
n20	2412	Ant2	-52.21	-20	Pass
n20	2462	Ant2	-54.1	-20	Pass

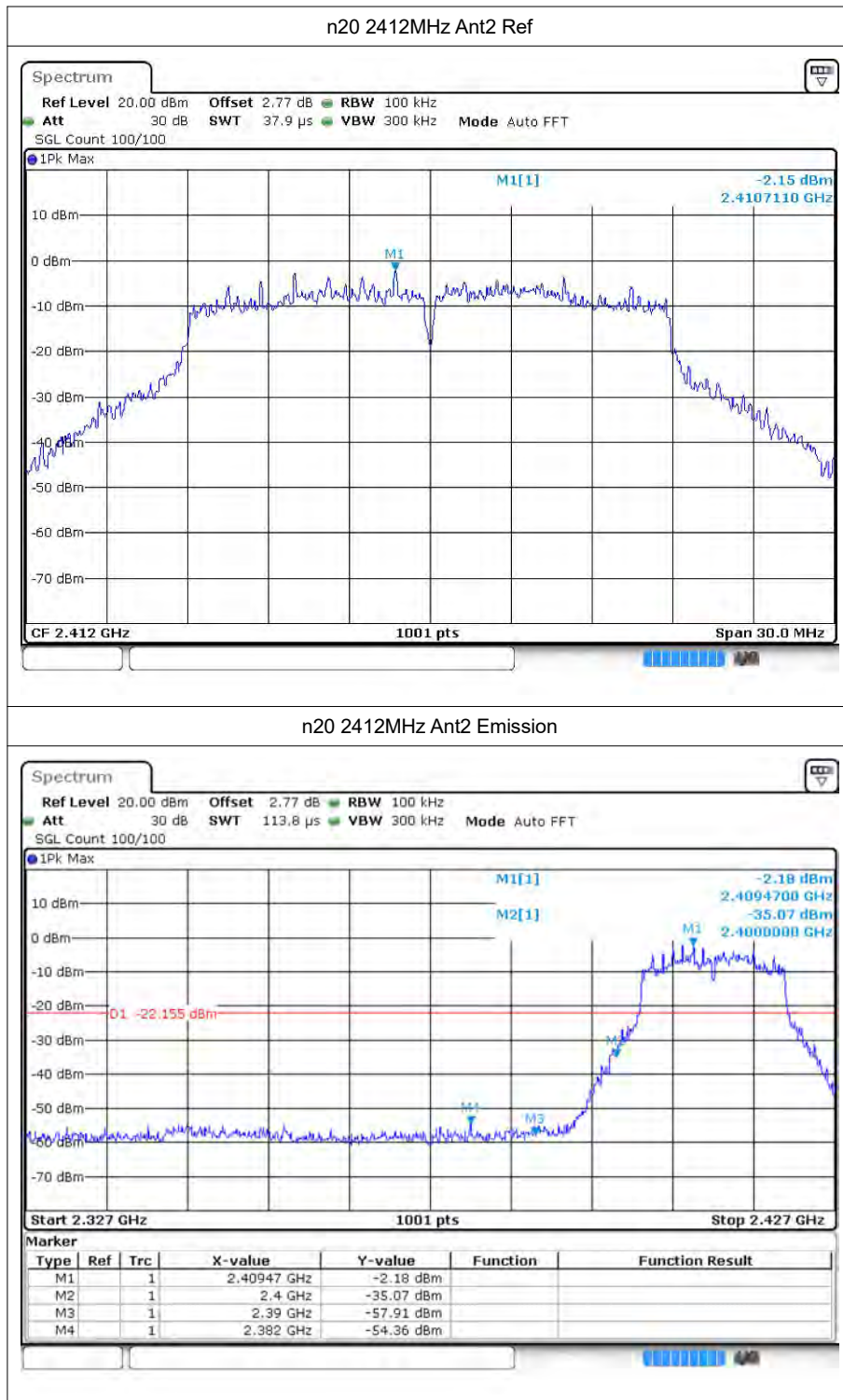
5.2 Test Graphs

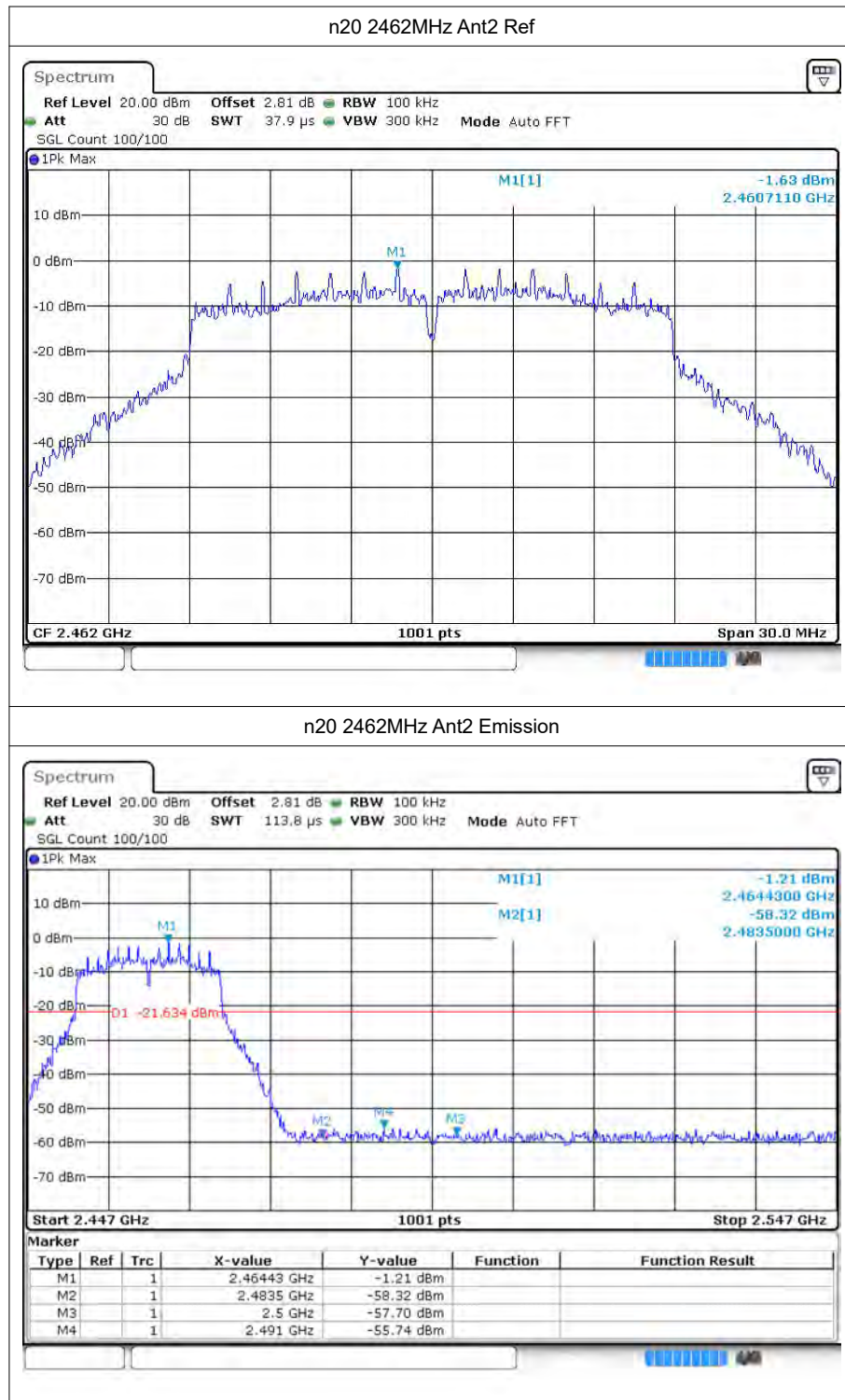












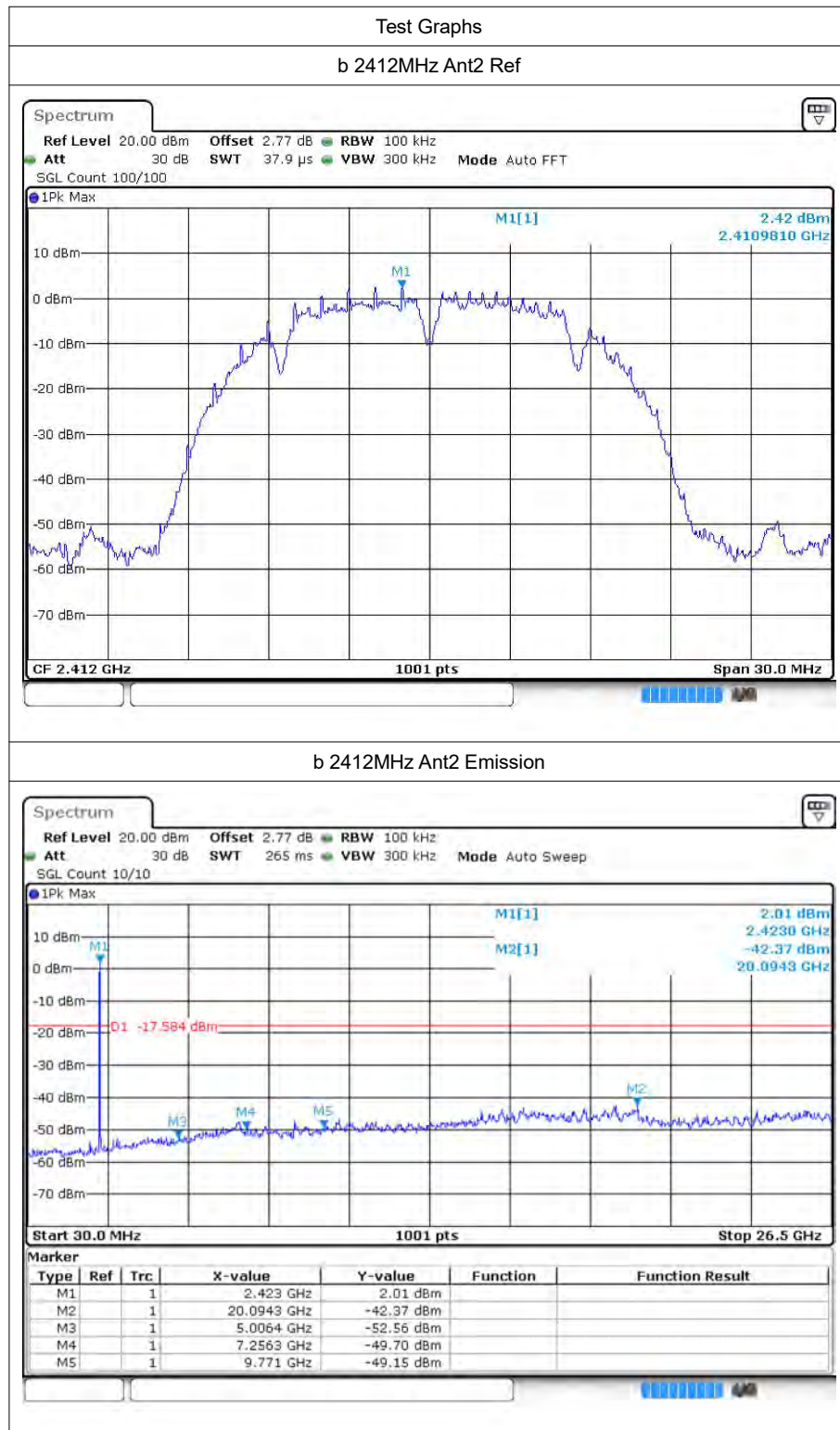


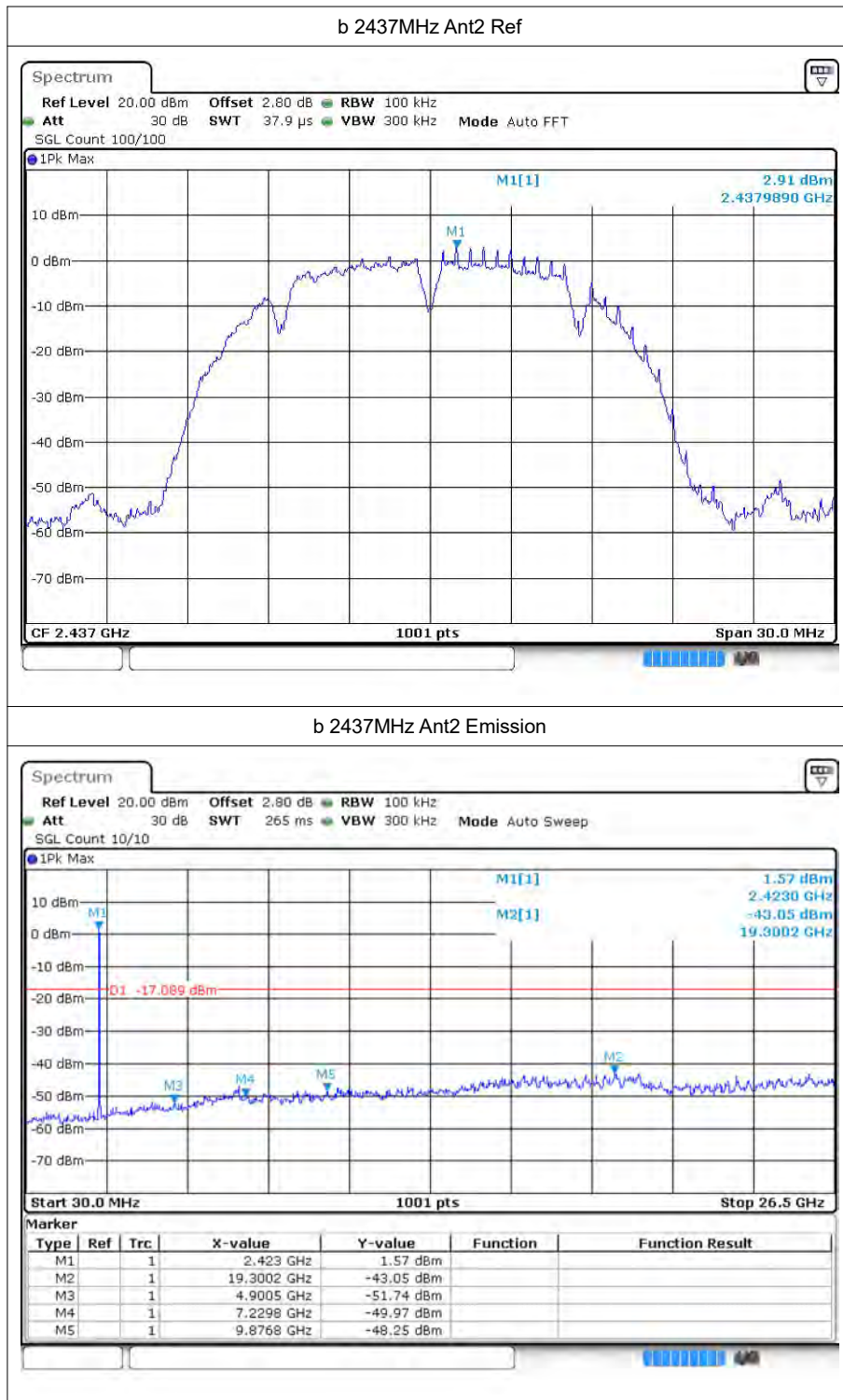
6 Conducted RF Spurious Emission

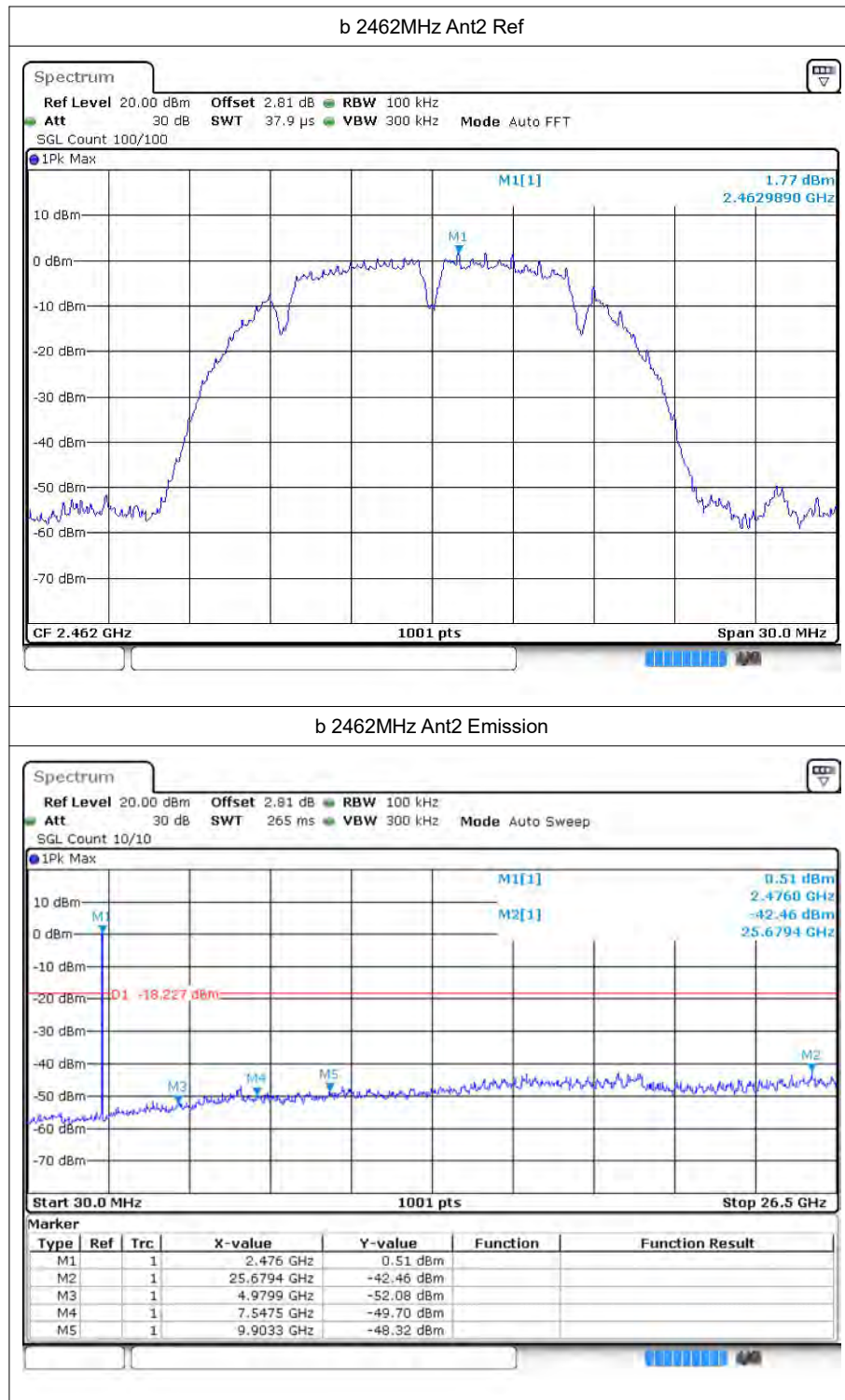
6.1 Test Result

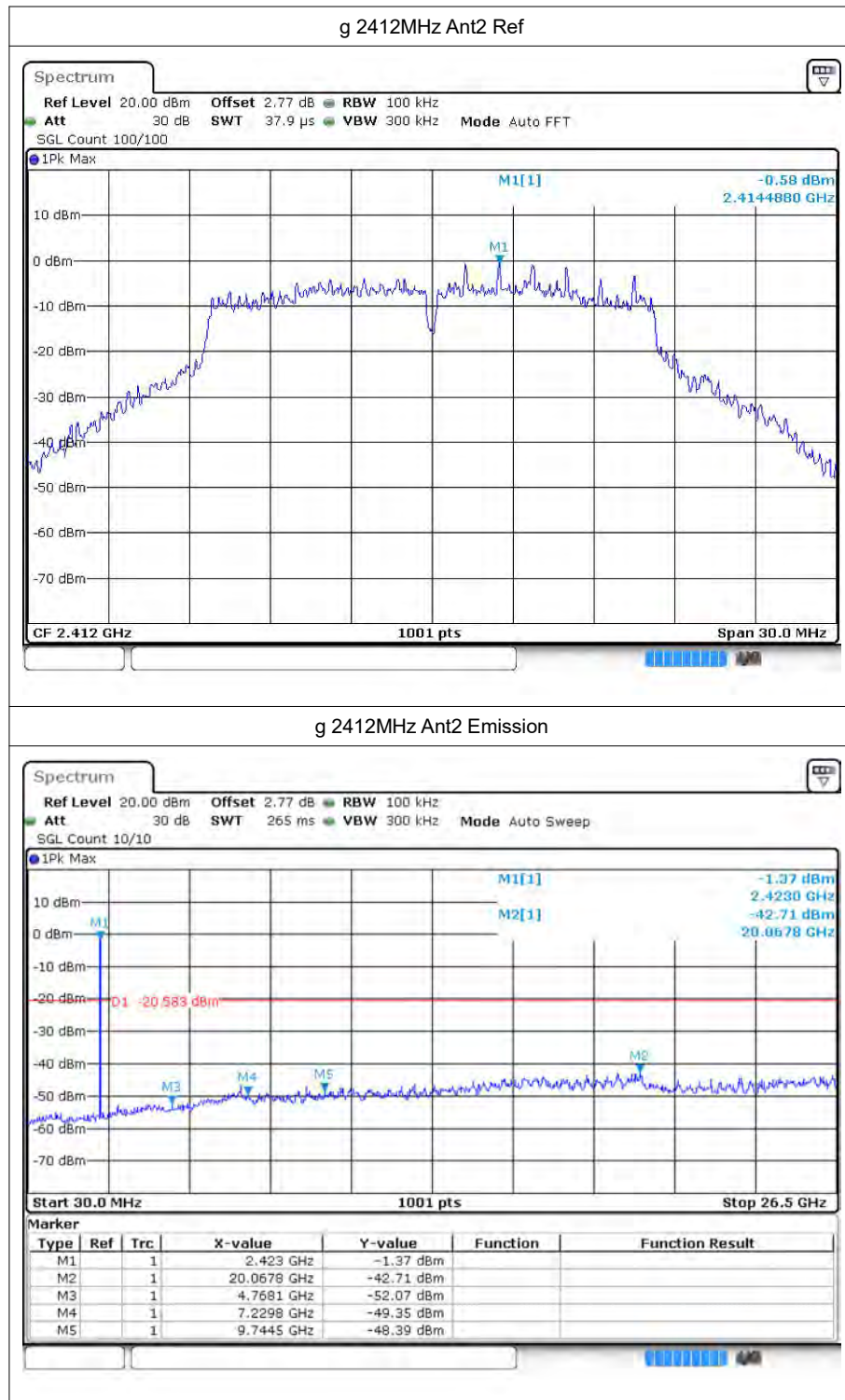
Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
b	2412	Ant2	-44.79	-20	Pass
b	2437	Ant2	-45.95	-20	Pass
b	2462	Ant2	-44.23	-20	Pass
g	2412	Ant2	-42.12	-20	Pass
g	2437	Ant2	-42.28	-20	Pass
g	2462	Ant2	-41.43	-20	Pass
n20	2412	Ant2	-41.04	-20	Pass
n20	2437	Ant2	-40.29	-20	Pass
n20	2462	Ant2	-41.44	-20	Pass

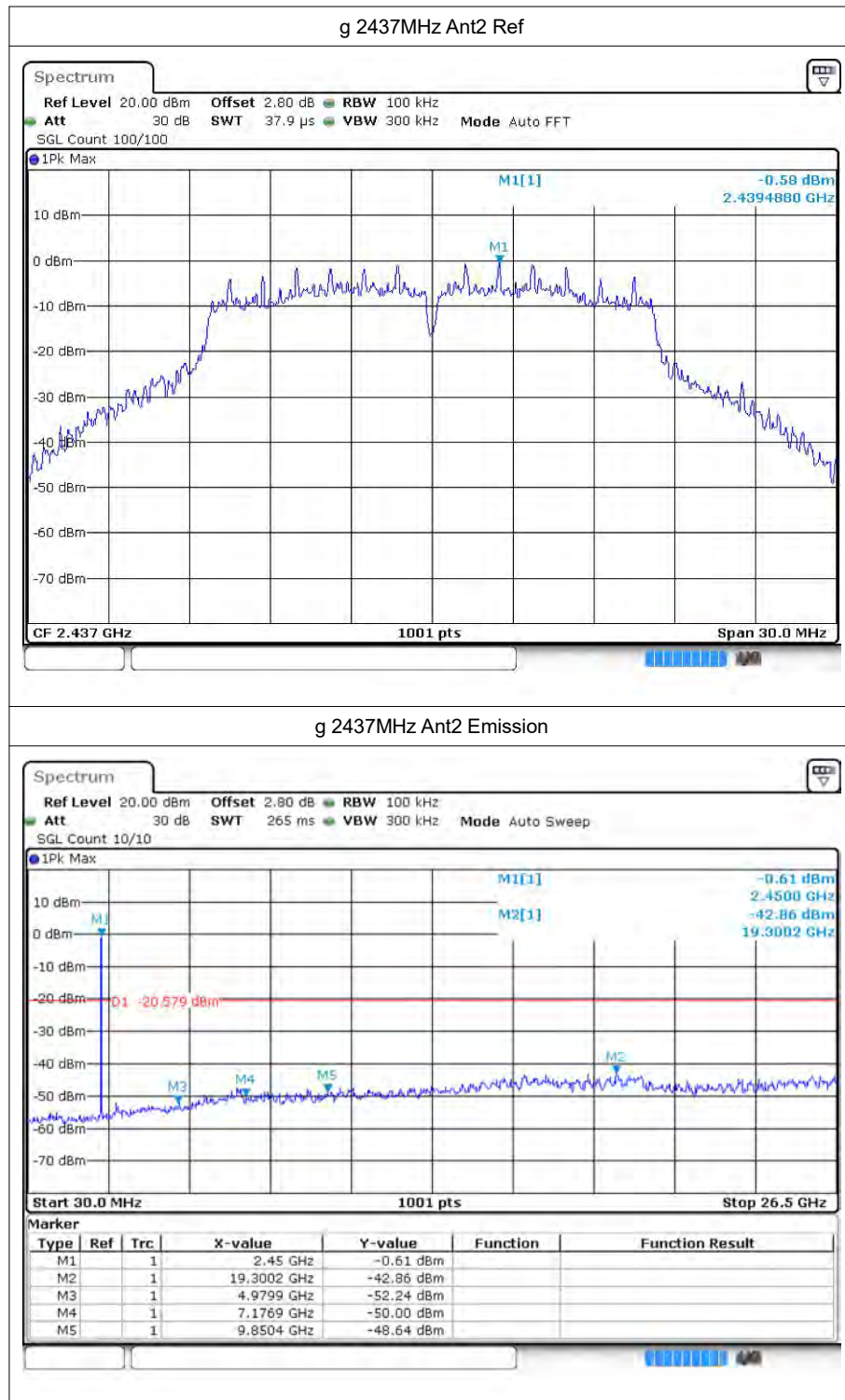
6.2 Test Graphs

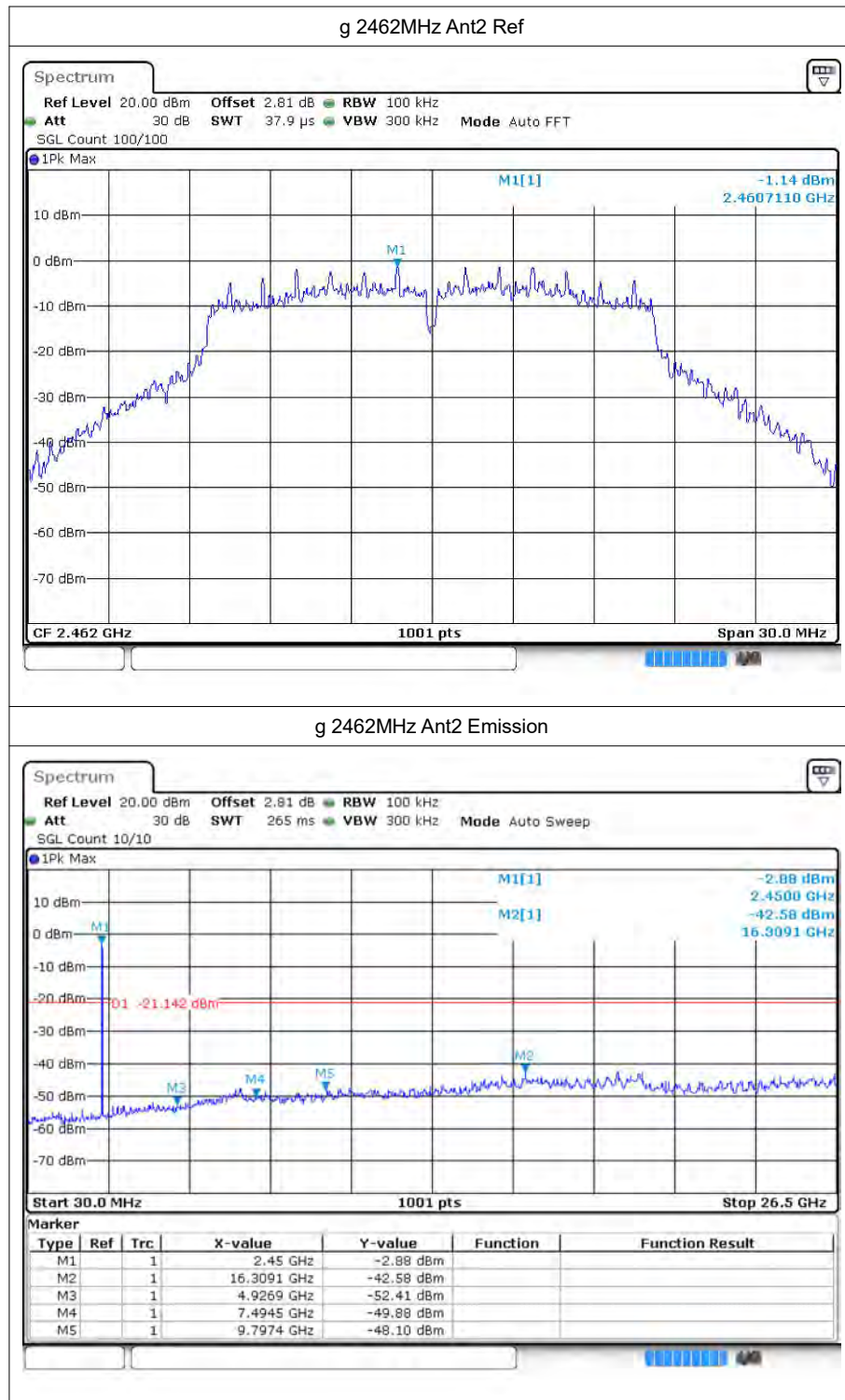


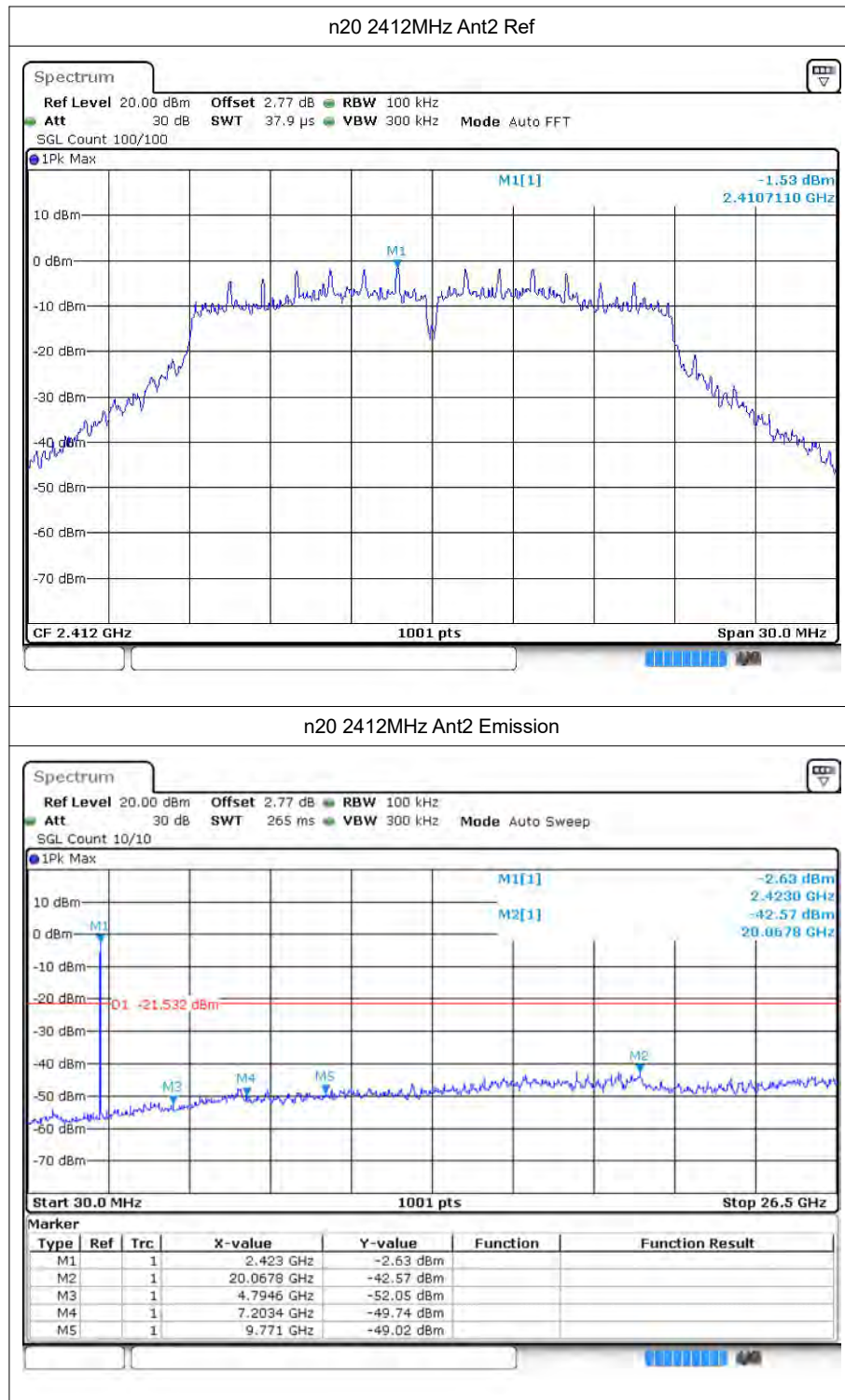


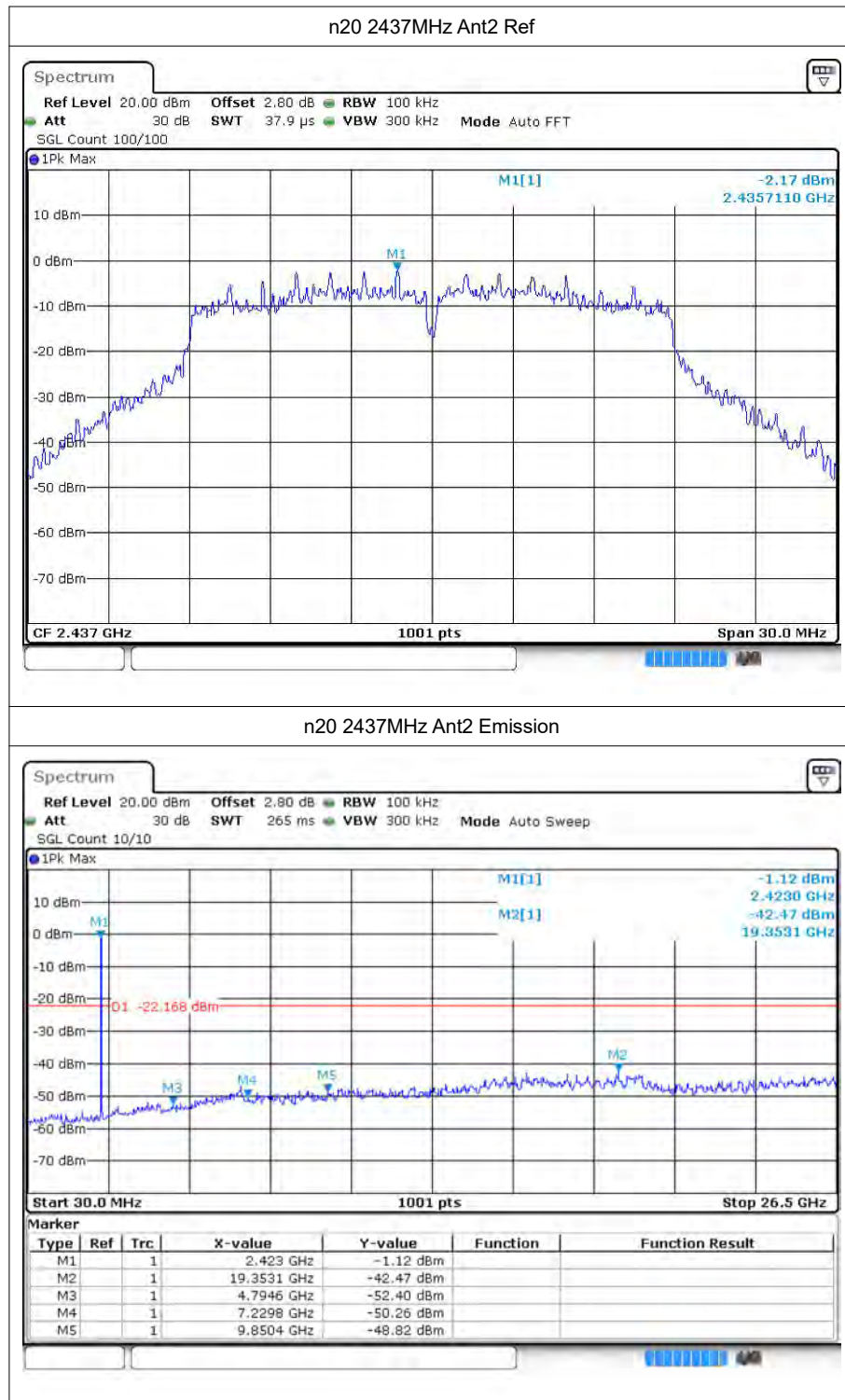


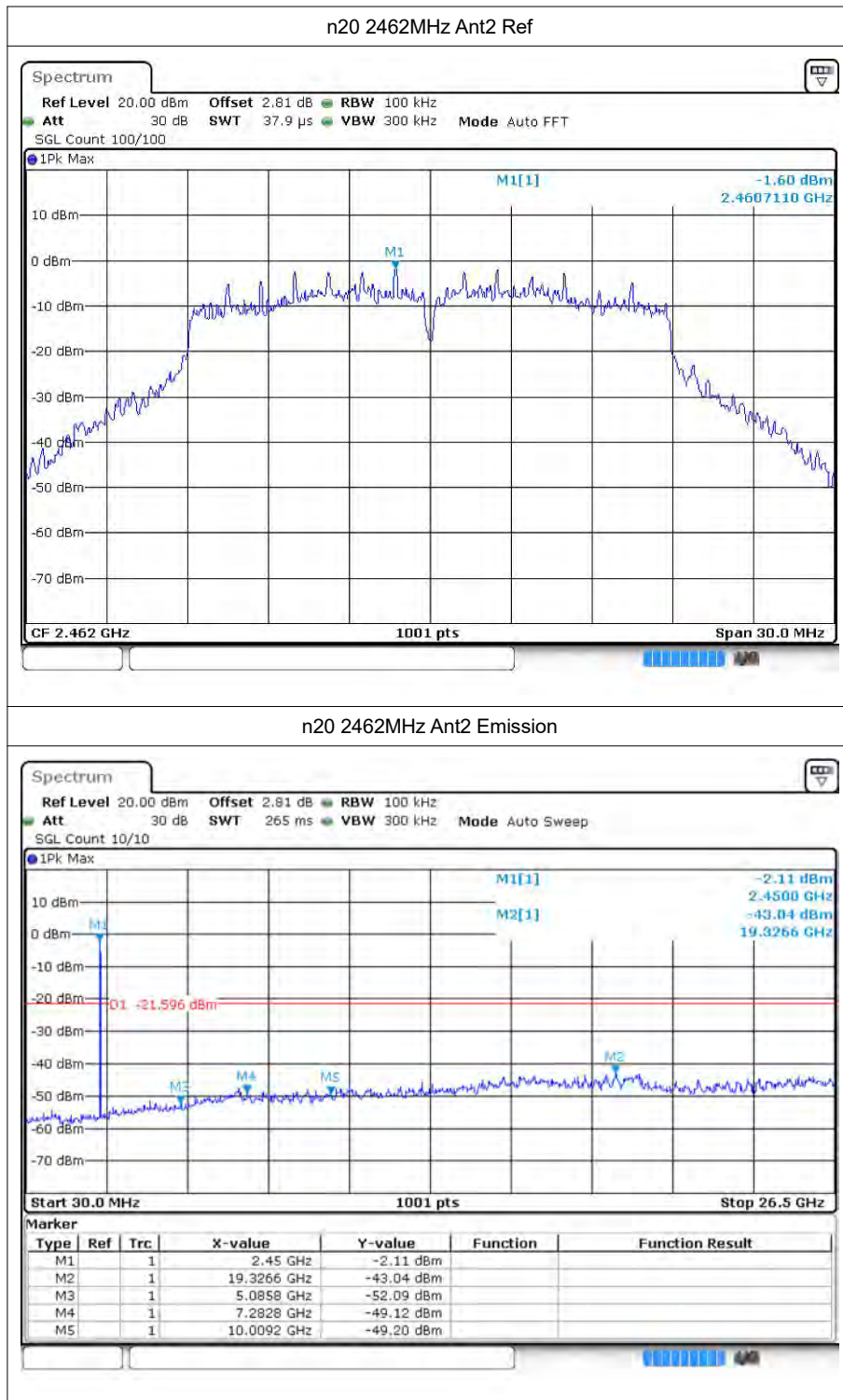














7 Restrict Band

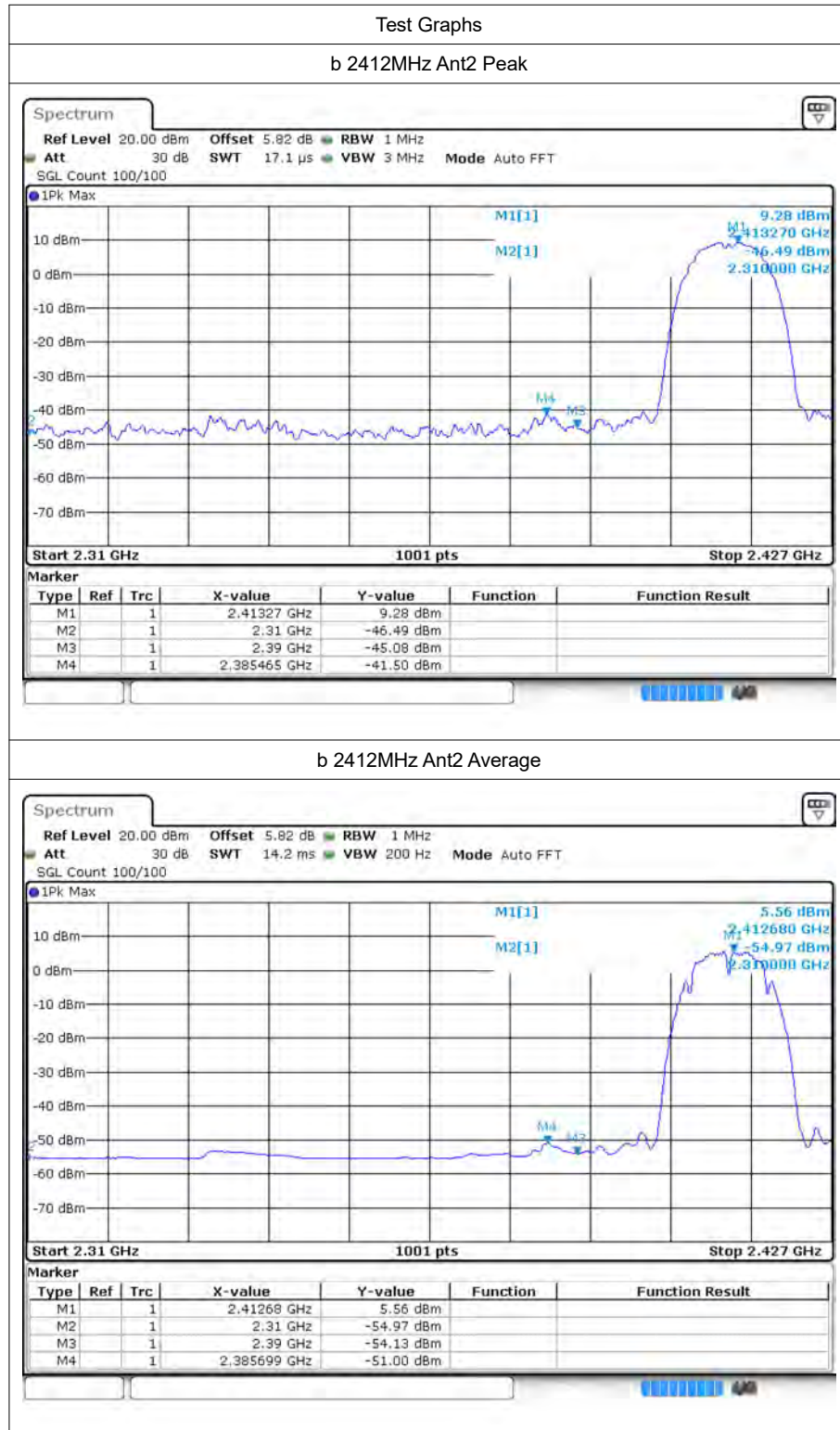
7.1 Test Result

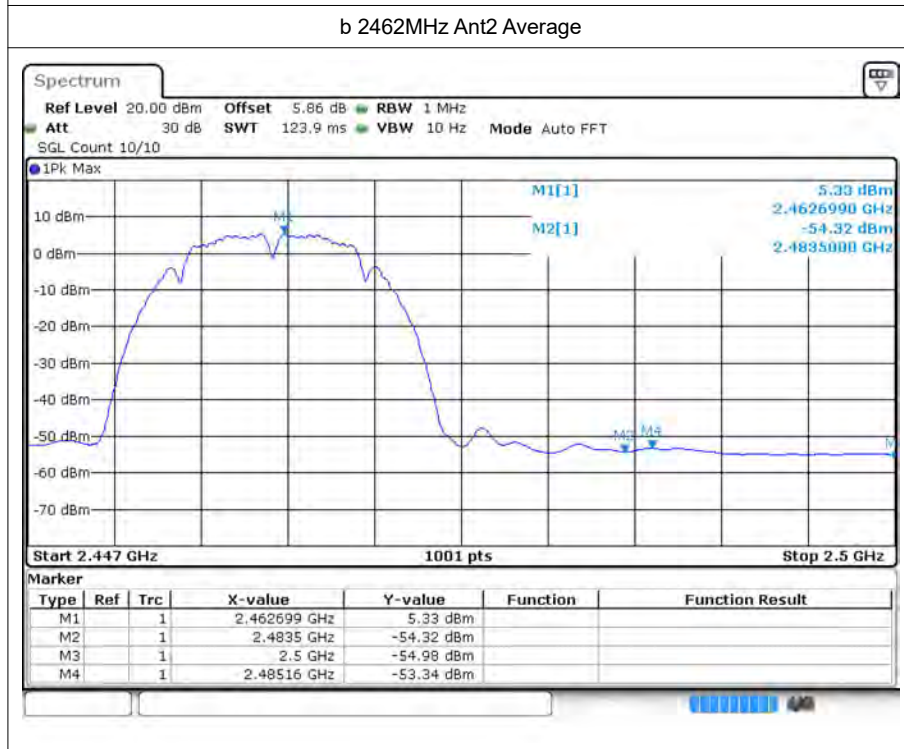
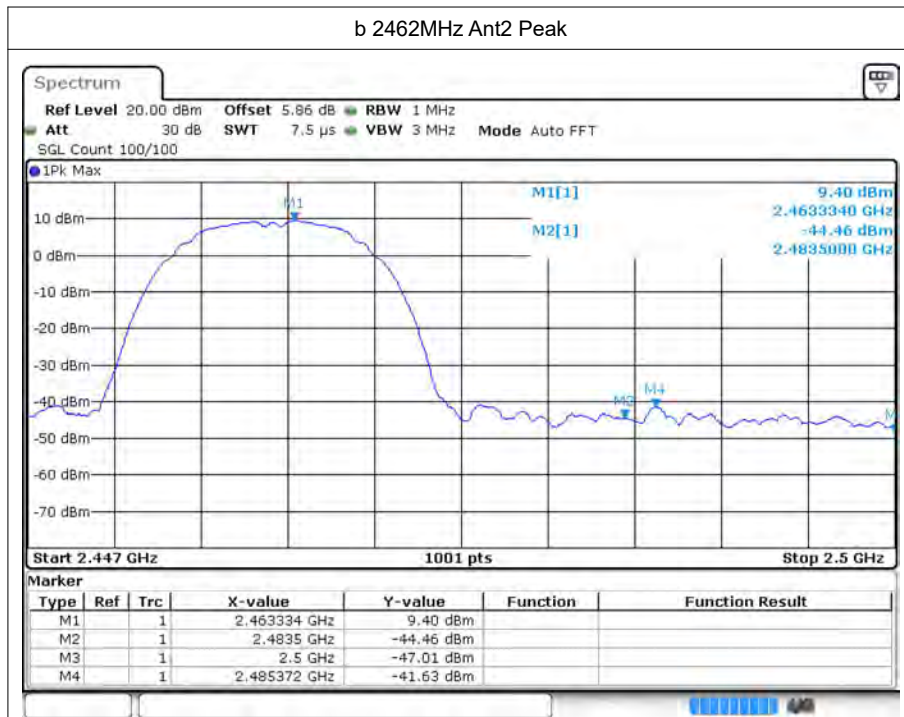
Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
b	2412	Ant2	2310	-46.48	3.05	51.83	Peak	74	Pass
b	2412	Ant2	2310	-54.96	3.05	43.35	Average	54	Pass
b	2412	Ant2	2385.465	-41.49	3.05	56.82	Peak	74	Pass
b	2412	Ant2	2385.699	-51	3.05	47.31	Average	54	Pass
b	2412	Ant2	2390	-45.07	3.05	53.24	Peak	74	Pass
b	2412	Ant2	2390	-54.13	3.05	44.18	Average	54	Pass
b	2462	Ant2	2483.5	-44.45	3.05	53.86	Peak	74	53.86
b	2462	Ant2	2483.5	-54.32	3.05	43.99	Average	54	Pass
b	2462	Ant2	2485.372	-41.62	3.05	56.69	Peak	74	Pass
b	2462	Ant2	2485.16	-53.33	3.05	44.98	Average	54	Pass
b	2462	Ant2	2500	-47.01	3.05	51.3	Peak	74	Pass
b	2462	Ant2	2500	-54.97	3.05	43.34	Average	54	Pass
g	2412	Ant2	2310	-45.63	3.05	52.68	Peak	74	Pass
g	2412	Ant2	2310	-53.54	3.05	44.77	Average	54	Pass
g	2412	Ant2	2347.206	-42.07	3.05	56.24	Peak	74	Pass
g	2412	Ant2	2338.08	-51.41	3.05	46.9	Average	54	Pass
g	2412	Ant2	2390	-45.12	3.05	53.24	Peak	74	Pass
g	2412	Ant2	2390	-52.8	3.05	45.51	Average	54	Pass
g	2462	Ant2	2483.5	-46.43	3.05	51.88	Peak	74	Pass
g	2462	Ant2	2483.5	-53.43	3.05	44.88	Average	54	Pass
g	2462	Ant2	2485.372	-43.03	3.05	55.28	Peak	74	Pass
g	2462	Ant2	2485.637	-52.16	3.05	46.15	Average	54	Pass
g	2462	Ant2	2500	-44.88	3.05	51.3	Peak	74	Pass
g	2462	Ant2	2500	-53.62	3.05	44.69	Average	54	Pass
n20	2412	Ant2	2310	-46.59	3.05	51.72	Peak	74	Pass
n20	2412	Ant2	2310	-53.82	3.05	44.49	Average	54	Pass
n20	2412	Ant2	2347.674	-42.46	3.05	55.85	Peak	74	Pass
n20	2412	Ant2	2338.899	-51.88	3.05	46.43	Average	54	Pass
n20	2412	Ant2	2390	-43.11	3.05	55.2	Peak	74	Pass
n20	2412	Ant2	2390	-52.03	3.05	46.28	Average	54	Pass
n20	2462	Ant2	2483.5	-44.88	3.05	53.43	Peak	74	Pass
n20	2462	Ant2	2483.5	-53.27	3.05	45.04	Average	54	Pass
n20	2462	Ant2	2485.107	-43.21	3.05	55.1	Peak	74	Pass
n20	2462	Ant2	2485.531	-52.96	3.05	45.35	Average	54	Pass



n20	2462	Ant2	2500	-46.45	3.05	51.86	Peak	74	Pass
n20	2462	Ant2	2500	-53.94	3.05	44.37	Average	54	Pass

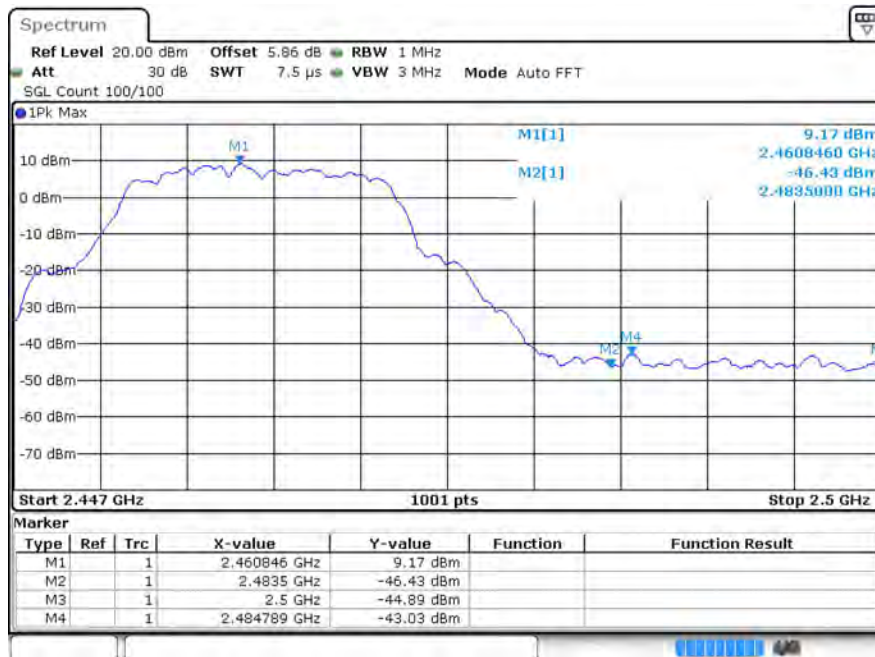
7.2 Test Graphs



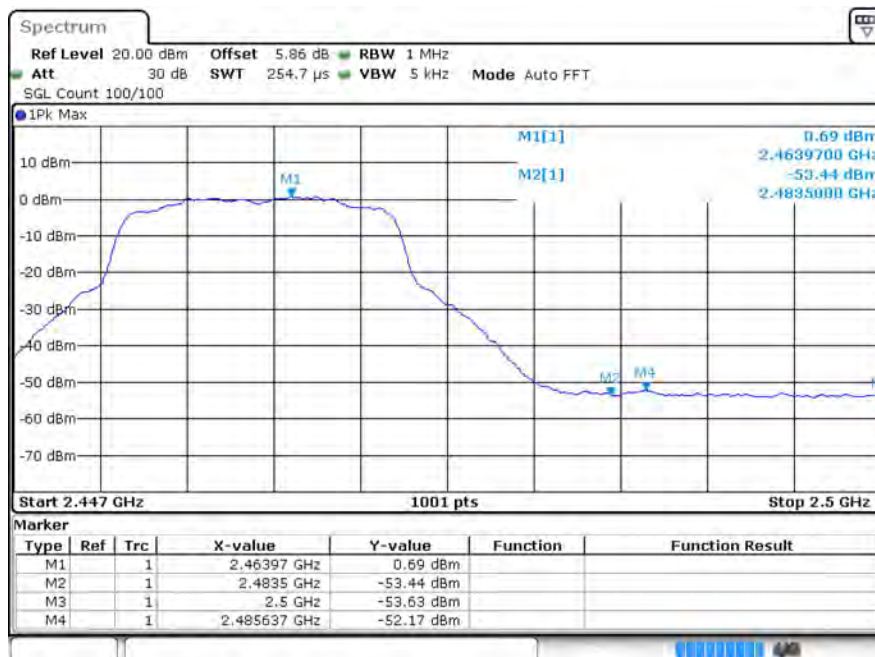


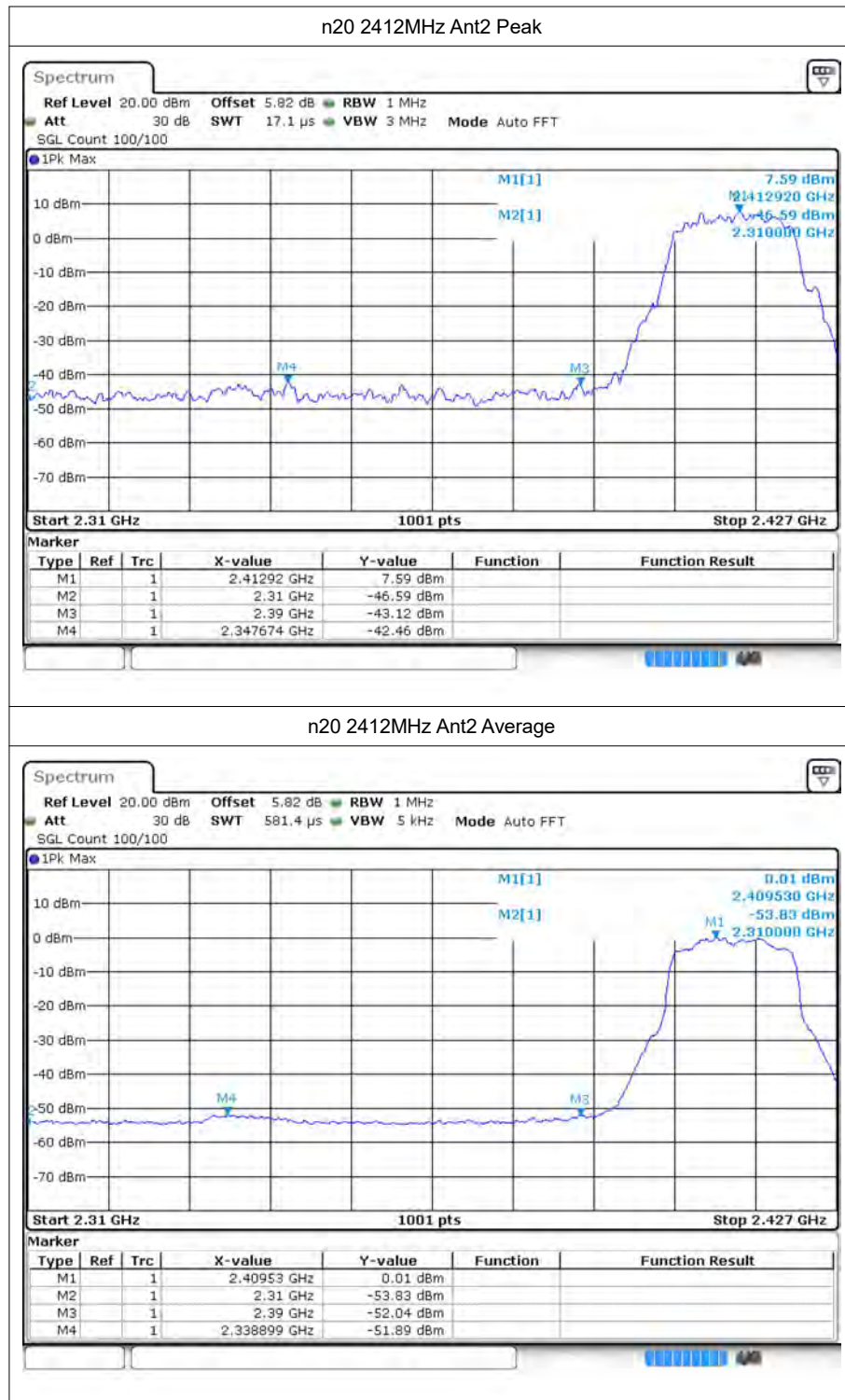


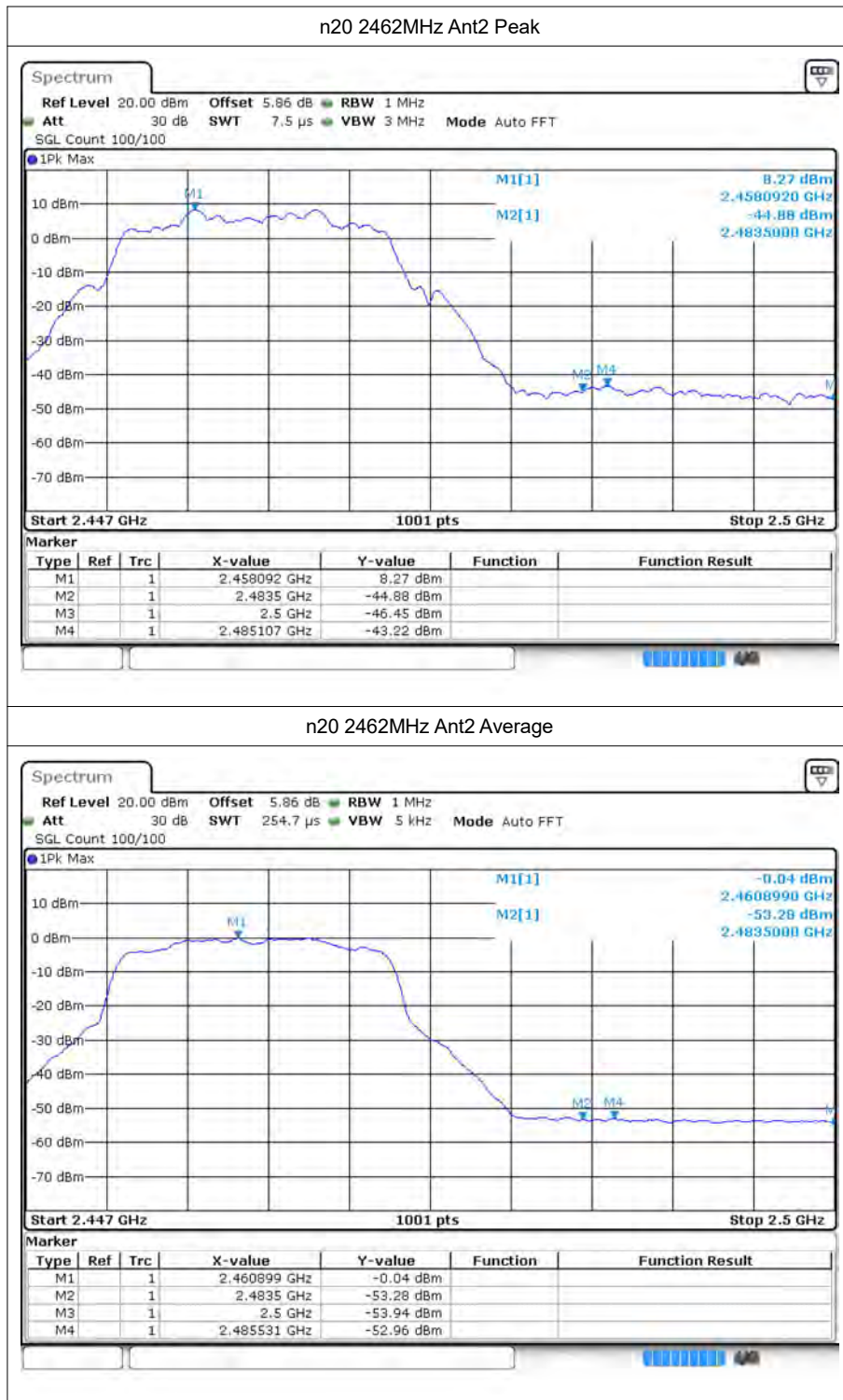
g 2462MHz Ant2 Peak



g 2462MHz Ant2 Average







---The End---