



Appendix C

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: WiFi Camera

Trade Mark: HUNTVISION

Test Model: A31W

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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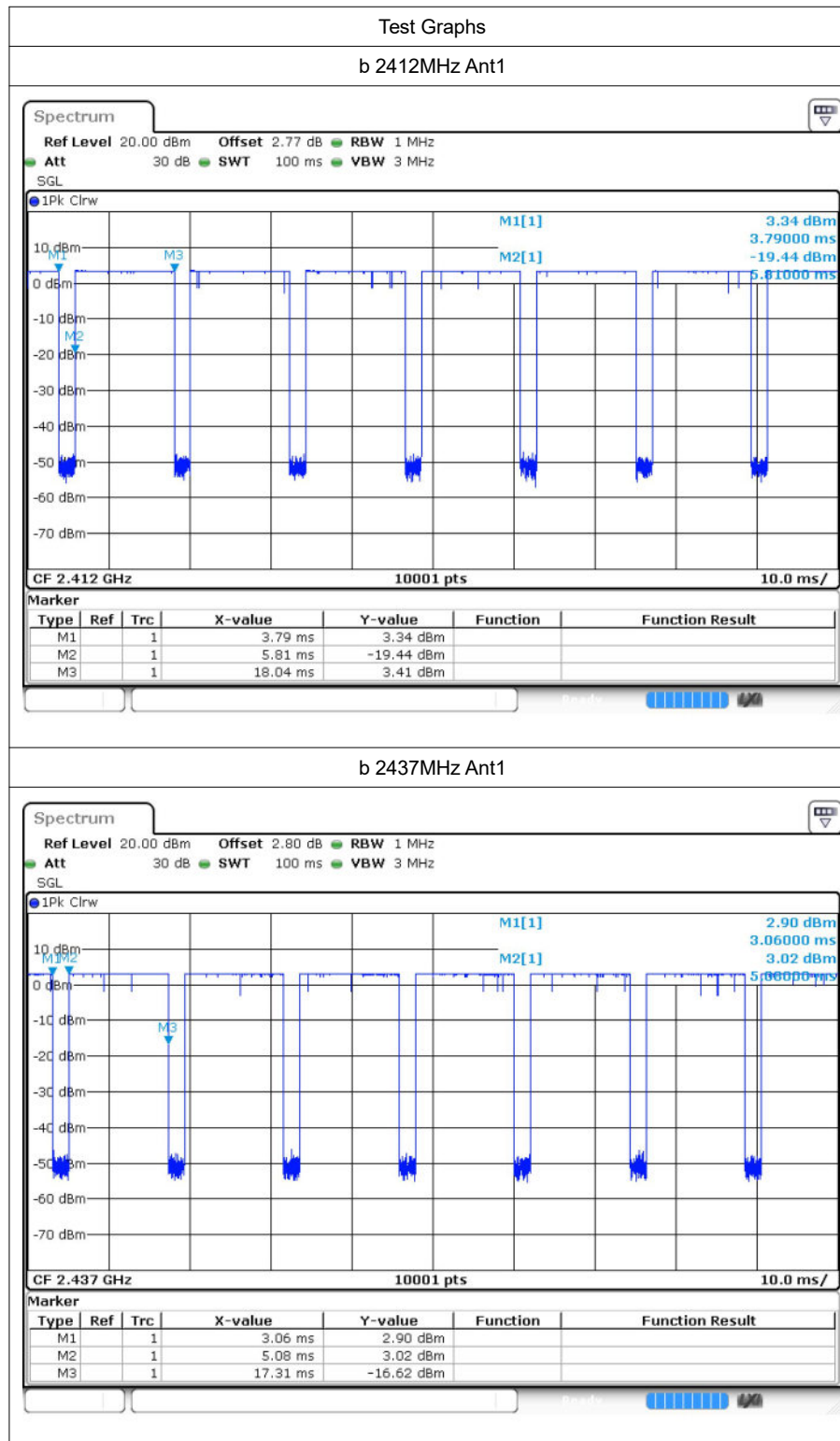


1 Duty Cycle

1.1 Test Result

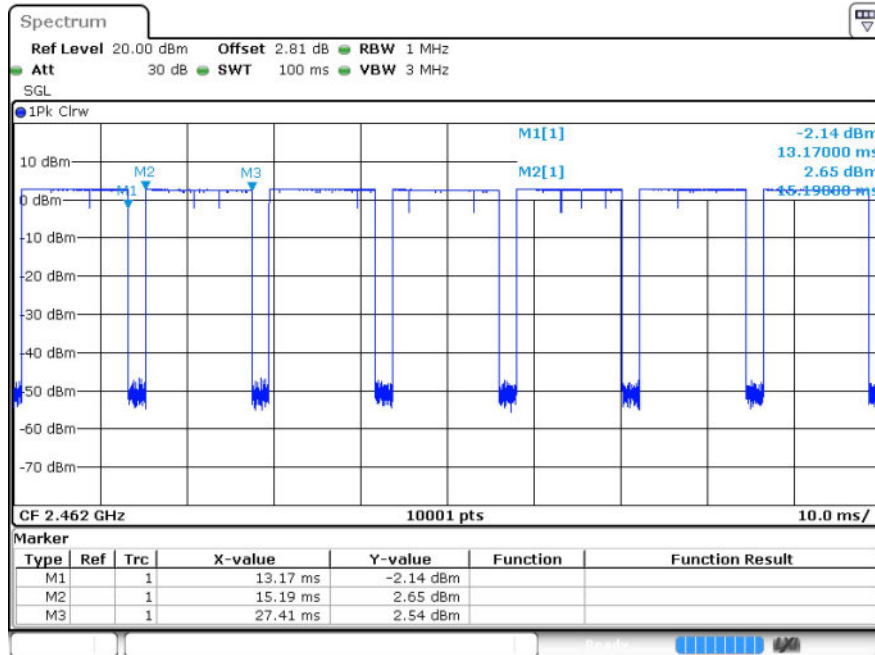
Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor	1/T (kHz)
b	2412	Ant1	85.93	0.66	0.08
b	2437	Ant1	85.92	0.66	0.08
b	2462	Ant1	85.63	0.67	0.08
g	2412	Ant1	50.39	2.98	0.49
g	2437	Ant1	50.12	3	0.49
g	2462	Ant1	49.23	3.08	0.49
n20	2412	Ant1	49.4	3.06	0.53
n20	2437	Ant1	48.1	3.18	0.53
n20	2462	Ant1	48.91	3.11	0.53

1.2 Test Graphs

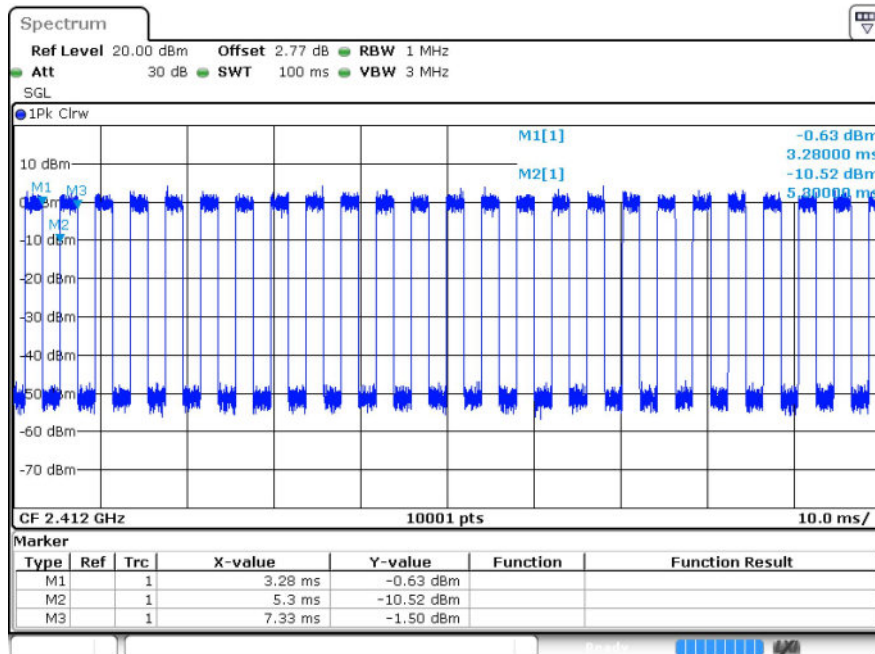


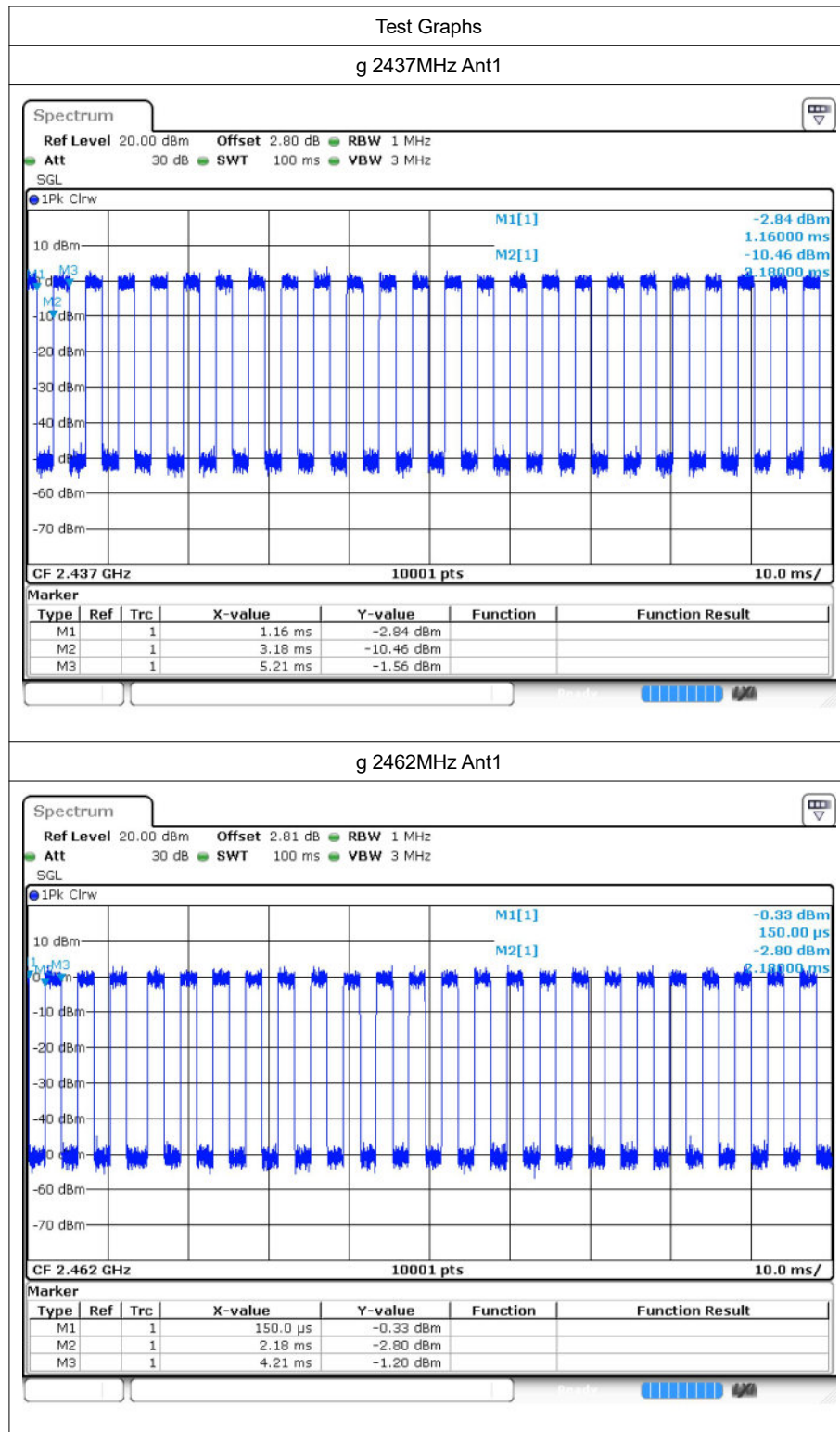
Test Graphs

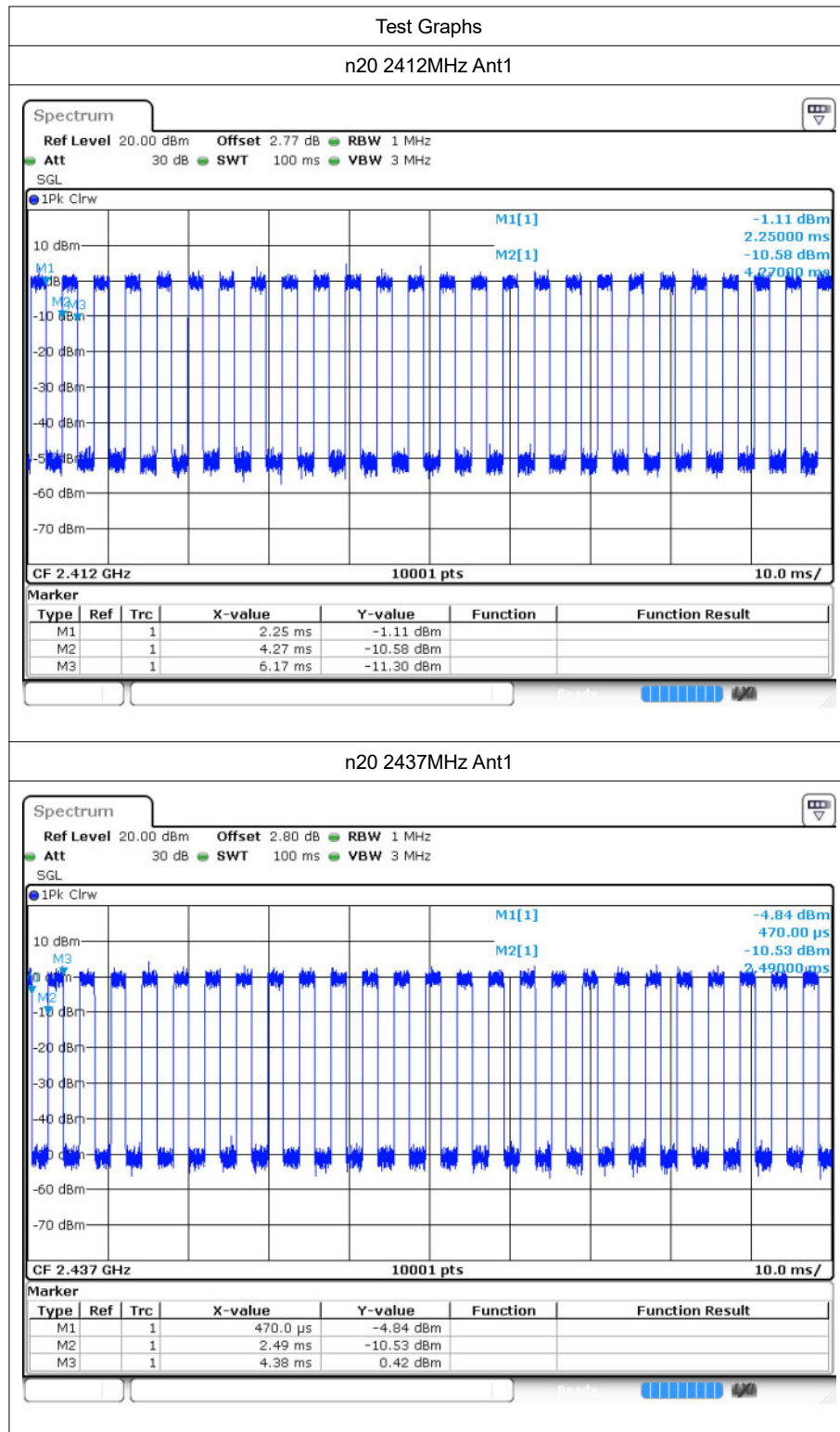
b 2462MHz Ant1

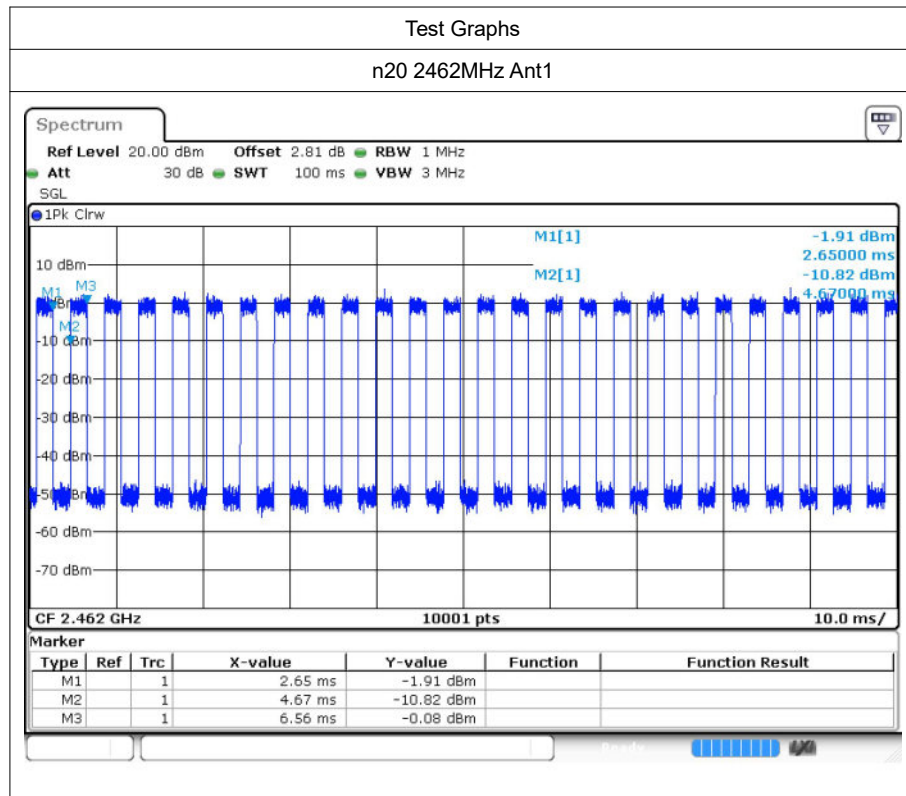


g 2412MHz Ant1











2 Maximum Conducted Output Power

2.1 Test Result

Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
b	2412	Ant1	13.71	30	Pass
b	2437	Ant1	13.67	30	Pass
b	2462	Ant1	13.07	30	Pass
g	2412	Ant1	12.94	30	Pass
g	2437	Ant1	12.71	30	Pass
g	2462	Ant1	12.52	30	Pass
n20	2412	Ant1	13.02	30	Pass
n20	2437	Ant1	12.73	30	Pass
n20	2462	Ant1	12.53	30	Pass

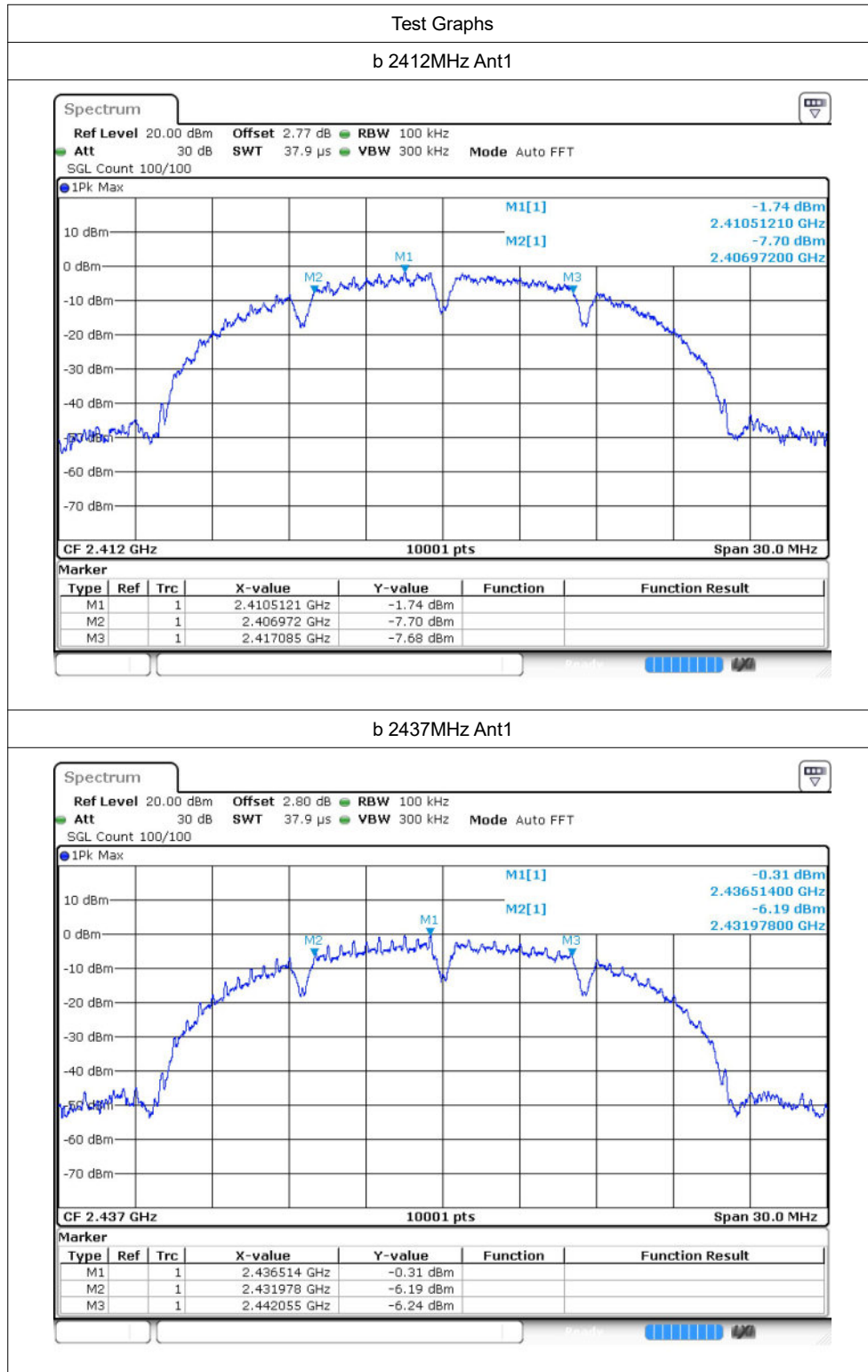


3 -6dB Bandwidth

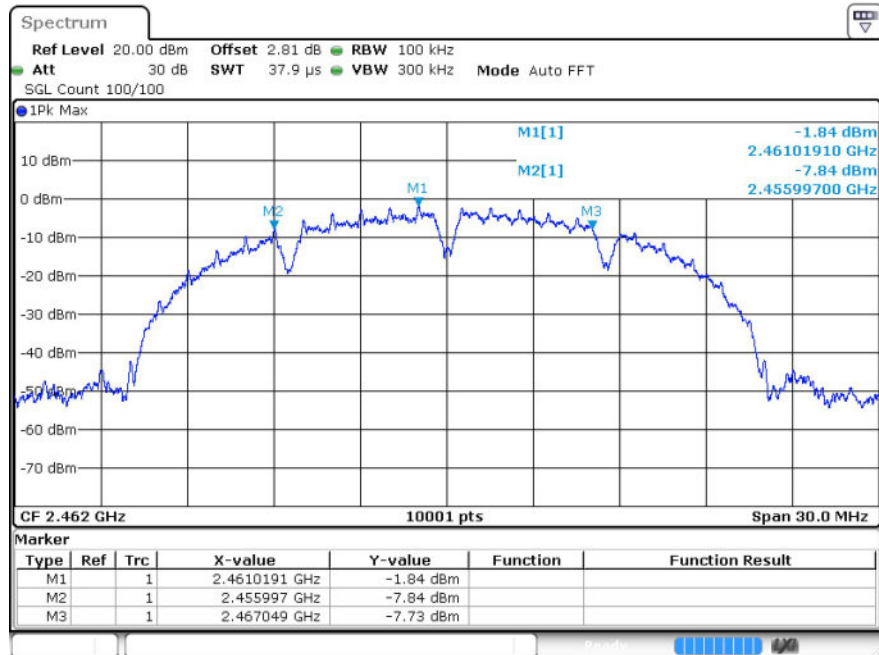
3.1 Test Result

Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
b	2412	Ant1	10.113	0.5	Pass
b	2437	Ant1	10.077	0.5	Pass
b	2462	Ant1	11.052	0.5	Pass
g	2412	Ant1	16.521	0.5	Pass
g	2437	Ant1	16.56	0.5	Pass
g	2462	Ant1	16.344	0.5	Pass
n20	2412	Ant1	17.679	0.5	Pass
n20	2437	Ant1	17.64	0.5	Pass
n20	2462	Ant1	17.631	0.5	Pass

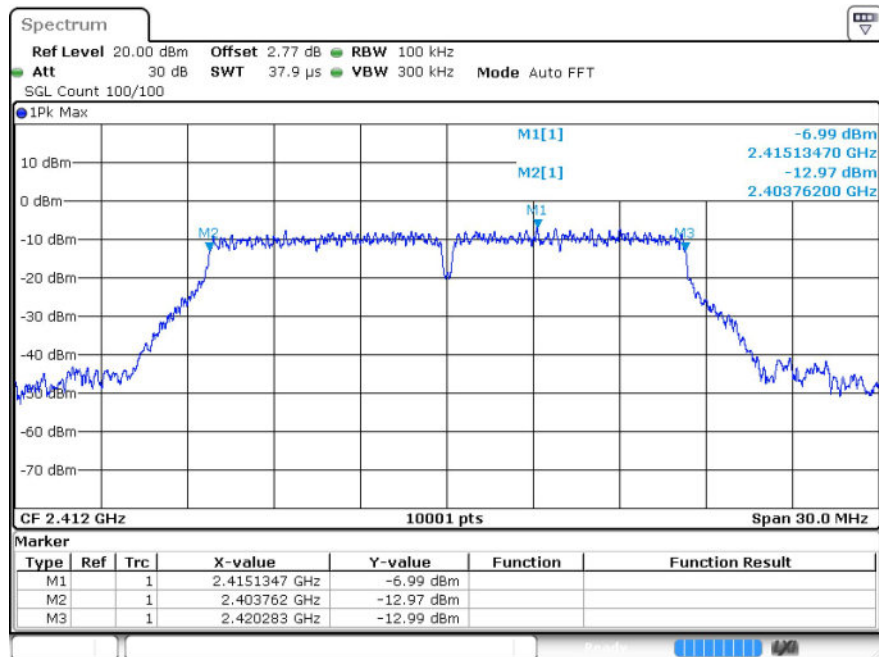
3.2 Test Graphs



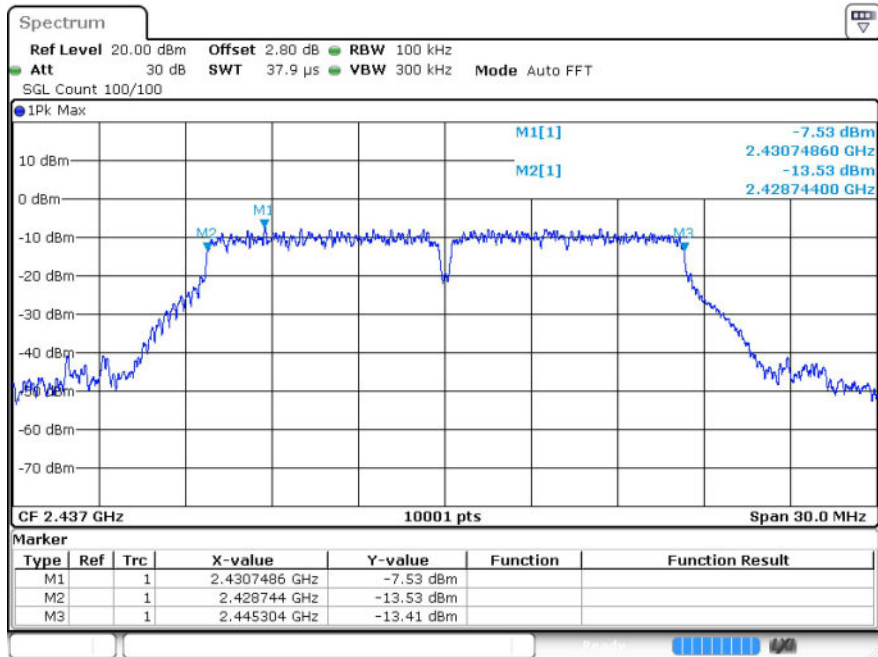
b 2462MHz Ant1



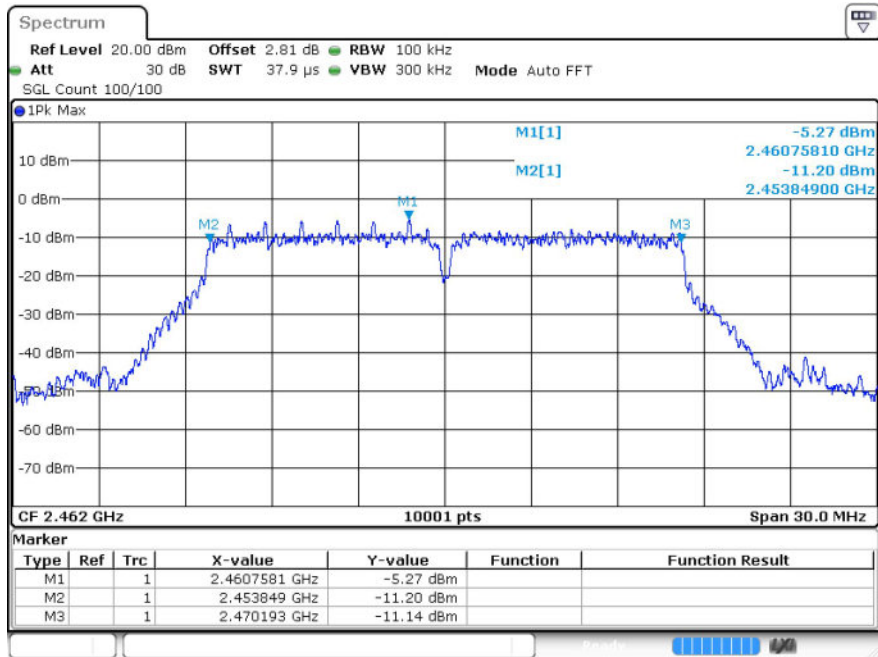
g 2412MHz Ant1



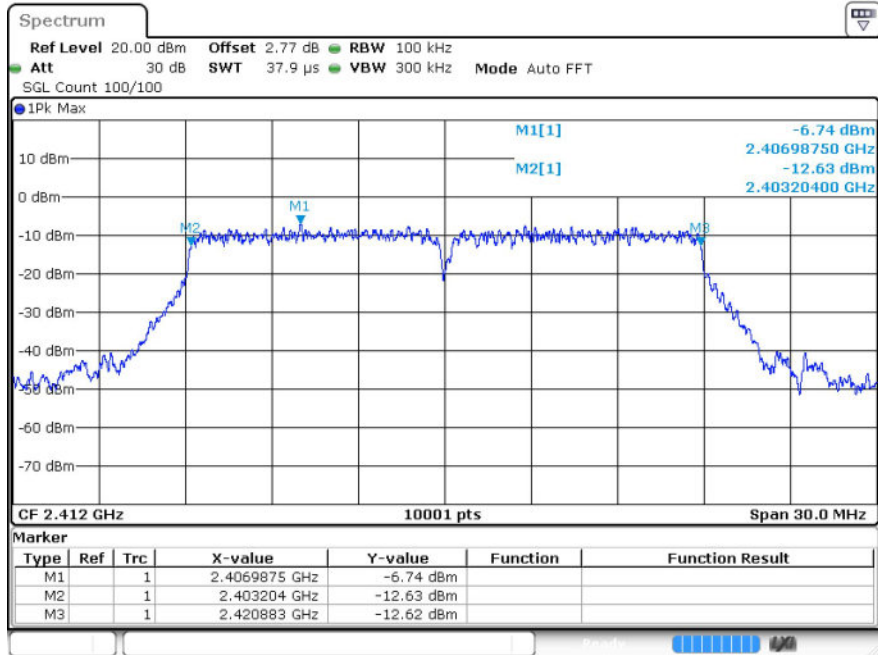
g 2437MHz Ant1



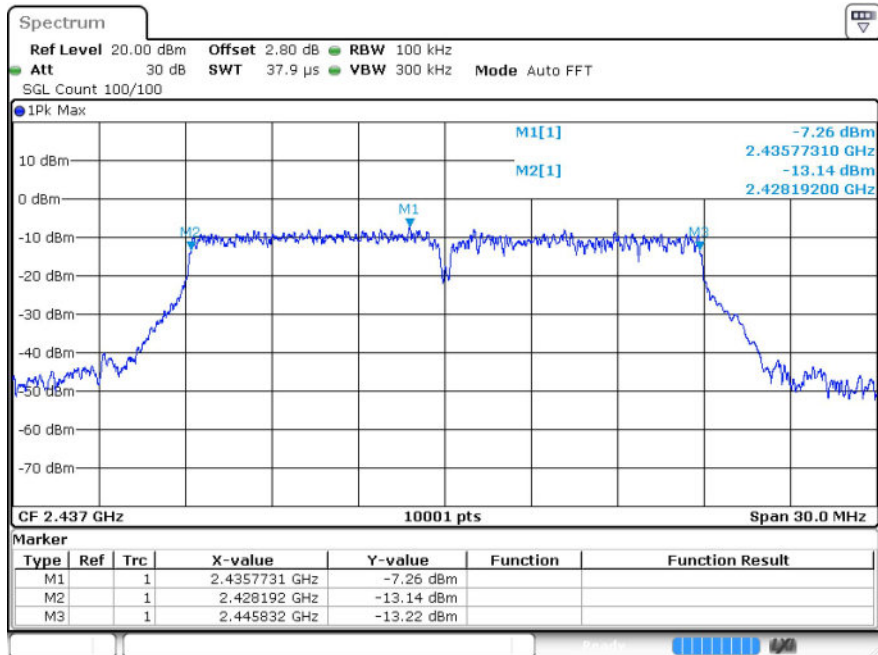
g 2462MHz Ant1

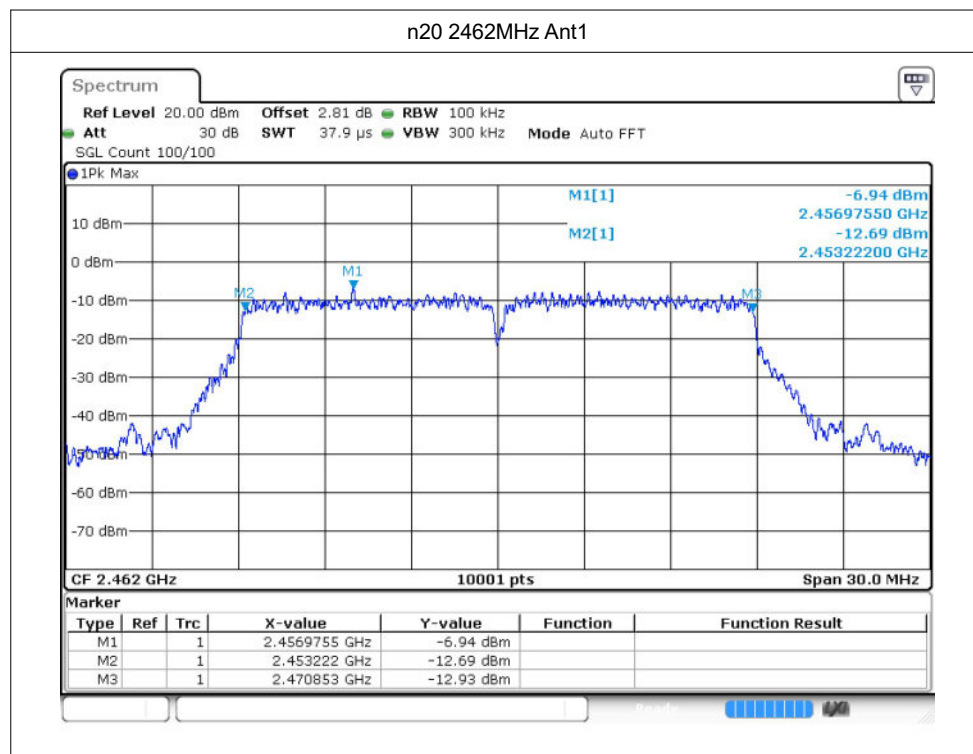


n20 2412MHz Ant1



n20 2437MHz Ant1



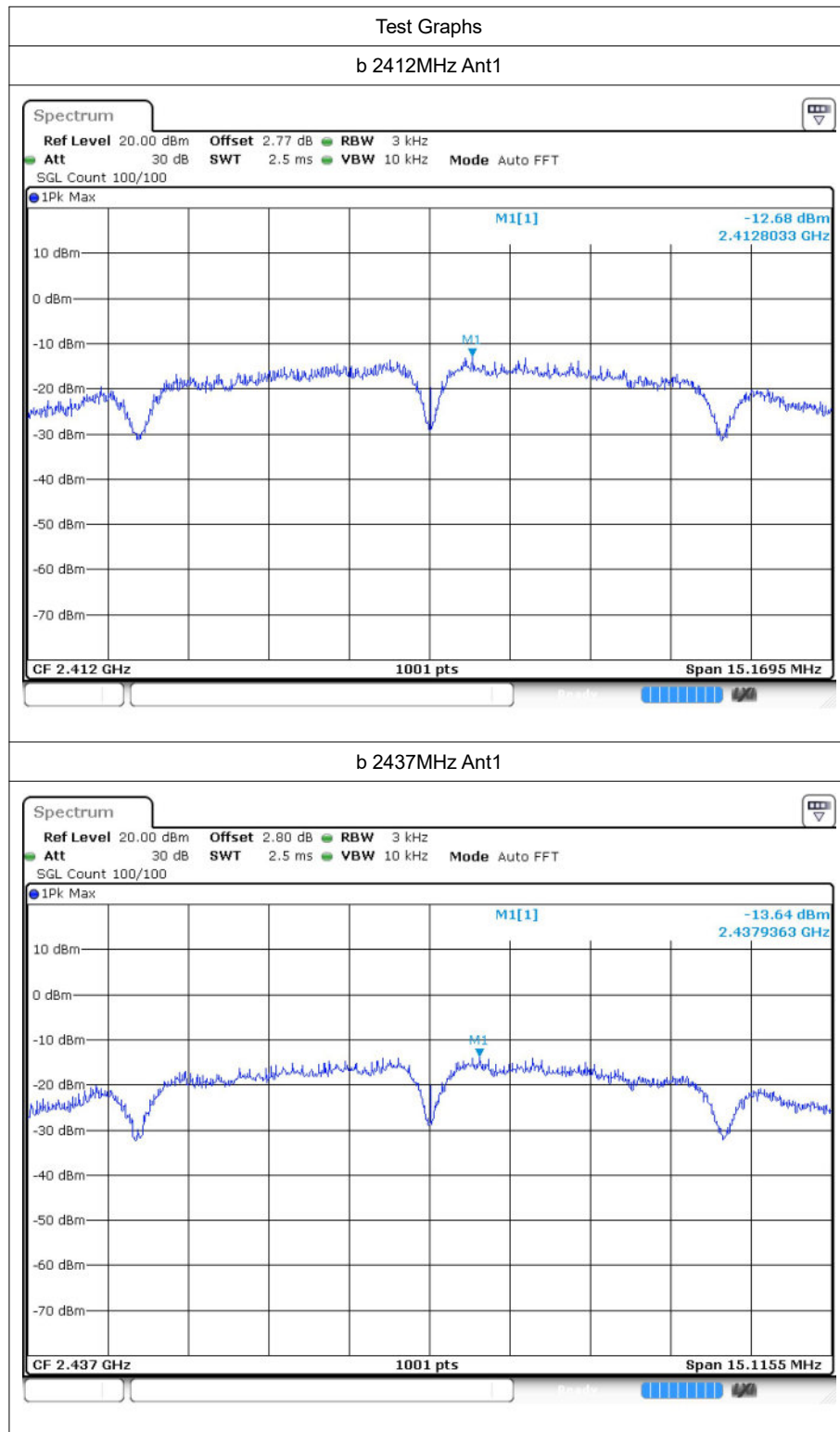


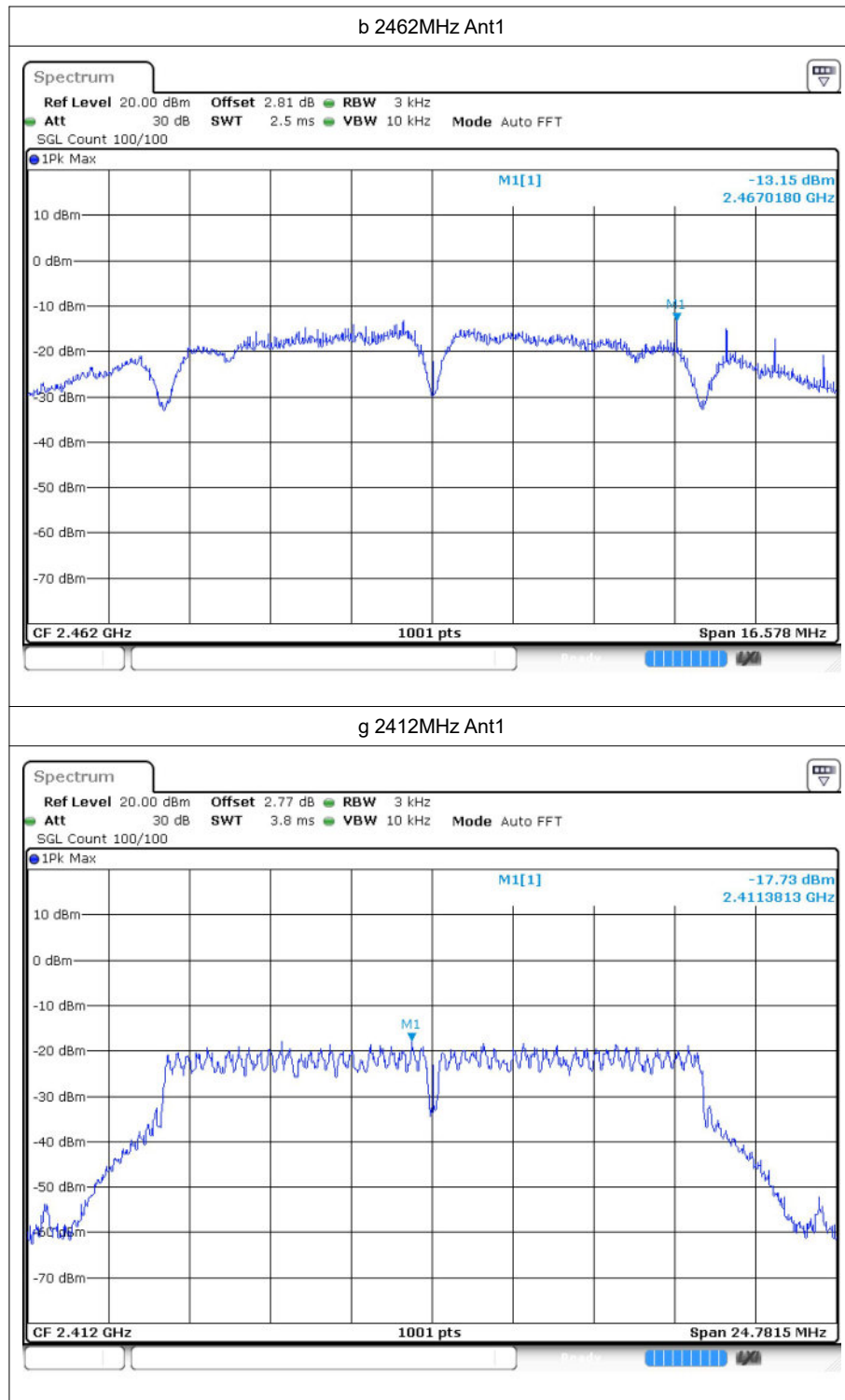
4 Maximum Power Spectral Density Level

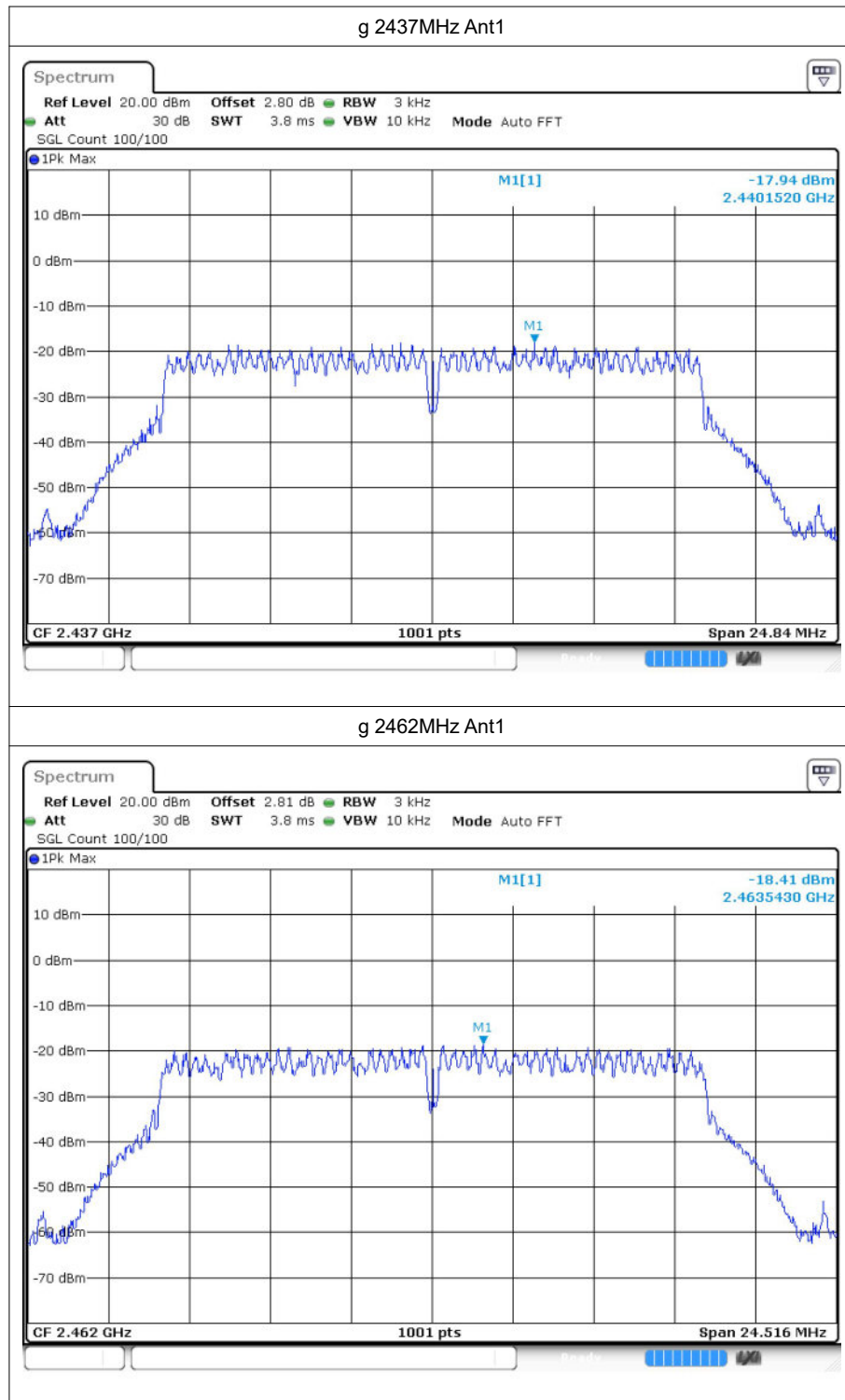
4.1 Test Result

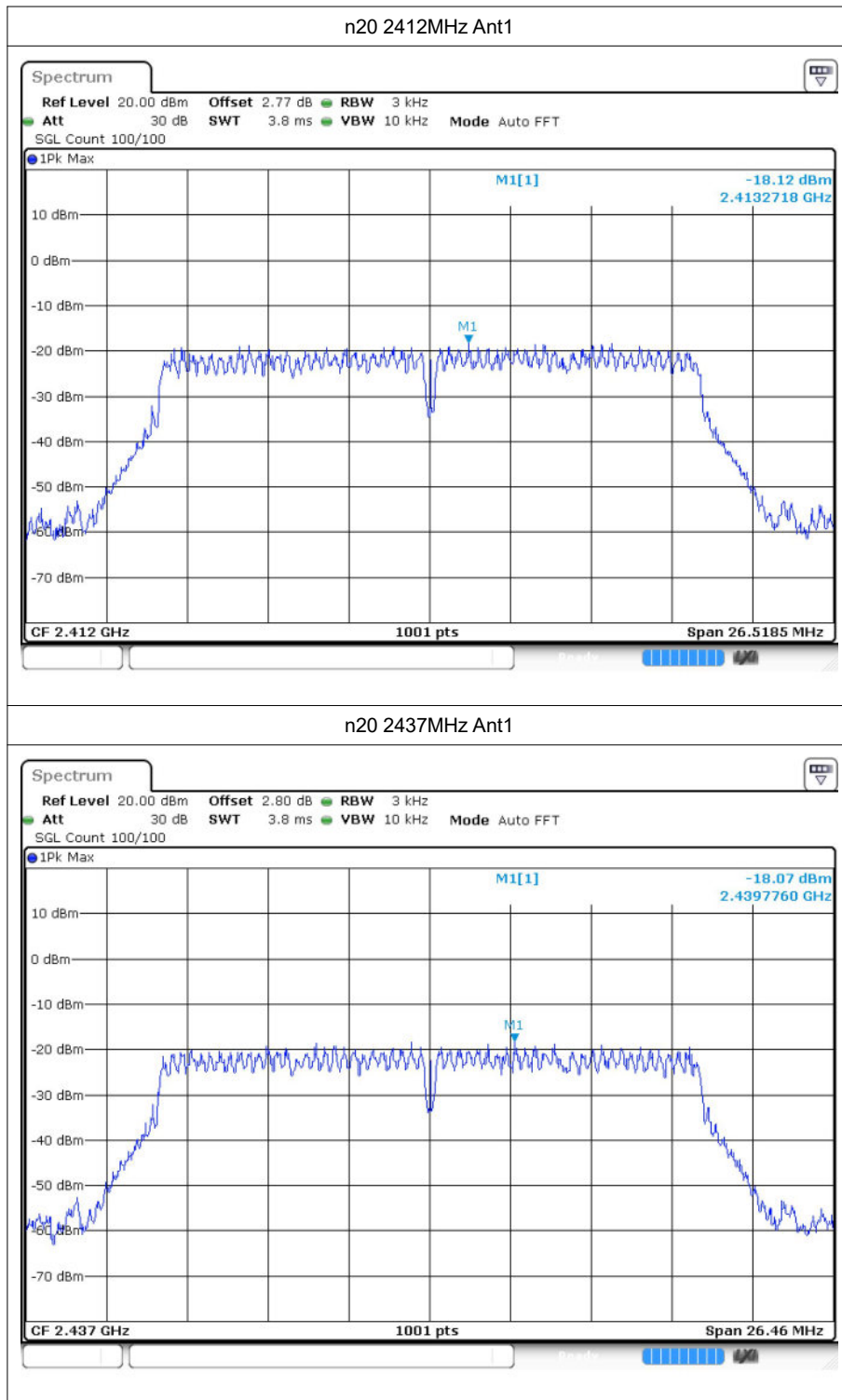
Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3-100kHz)	Limit (dBm/3kHz)	Verdict
b	2412	Ant1	-12.68	≤ 8	Pass
b	2437	Ant1	-13.64	≤ 8	Pass
b	2462	Ant1	-13.15	≤ 8	Pass
g	2412	Ant1	-17.73	≤ 8	Pass
g	2437	Ant1	-17.94	≤ 8	Pass
g	2462	Ant1	-18.41	≤ 8	Pass
n20	2412	Ant1	-18.12	≤ 8	Pass
n20	2437	Ant1	-18.07	≤ 8	Pass
n20	2462	Ant1	-18.68	≤ 8	Pass

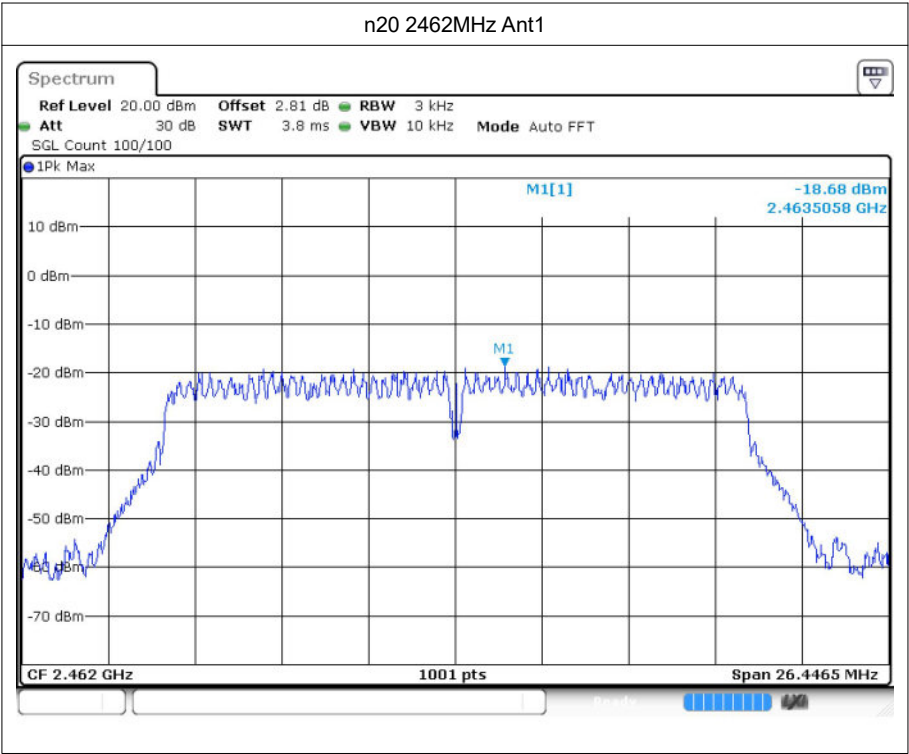
4.2 Test Graphs











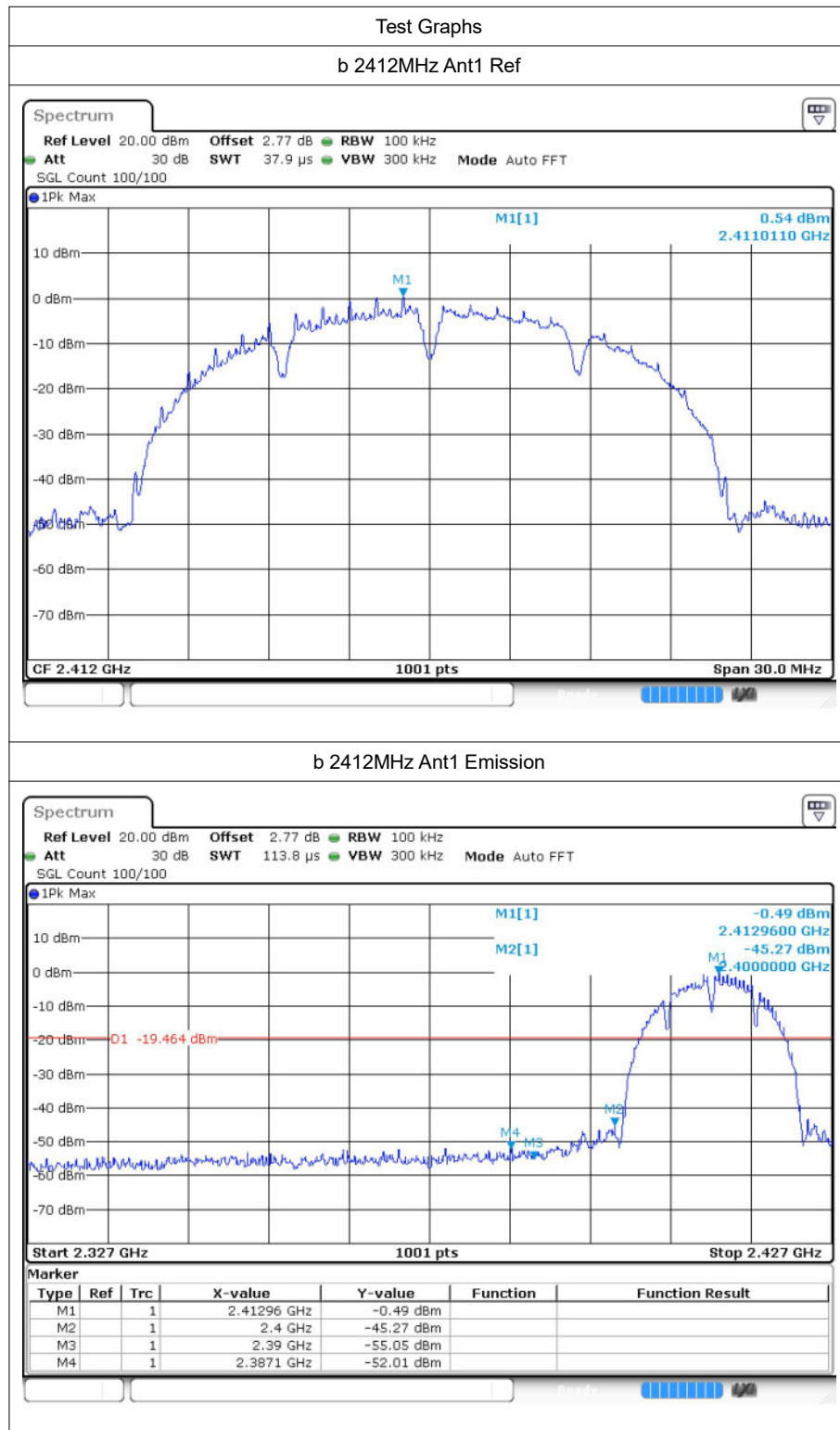


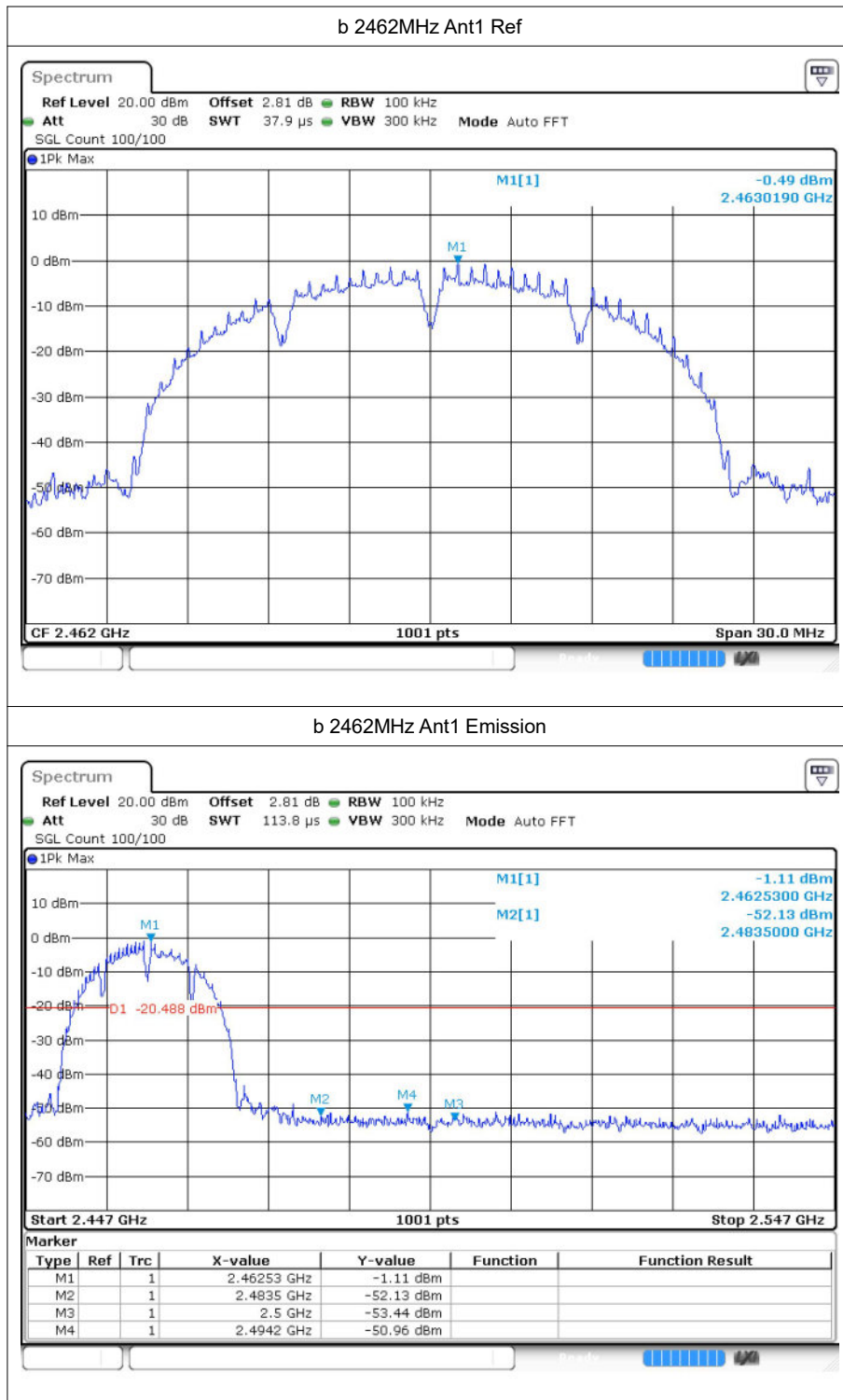
5 Band Edge

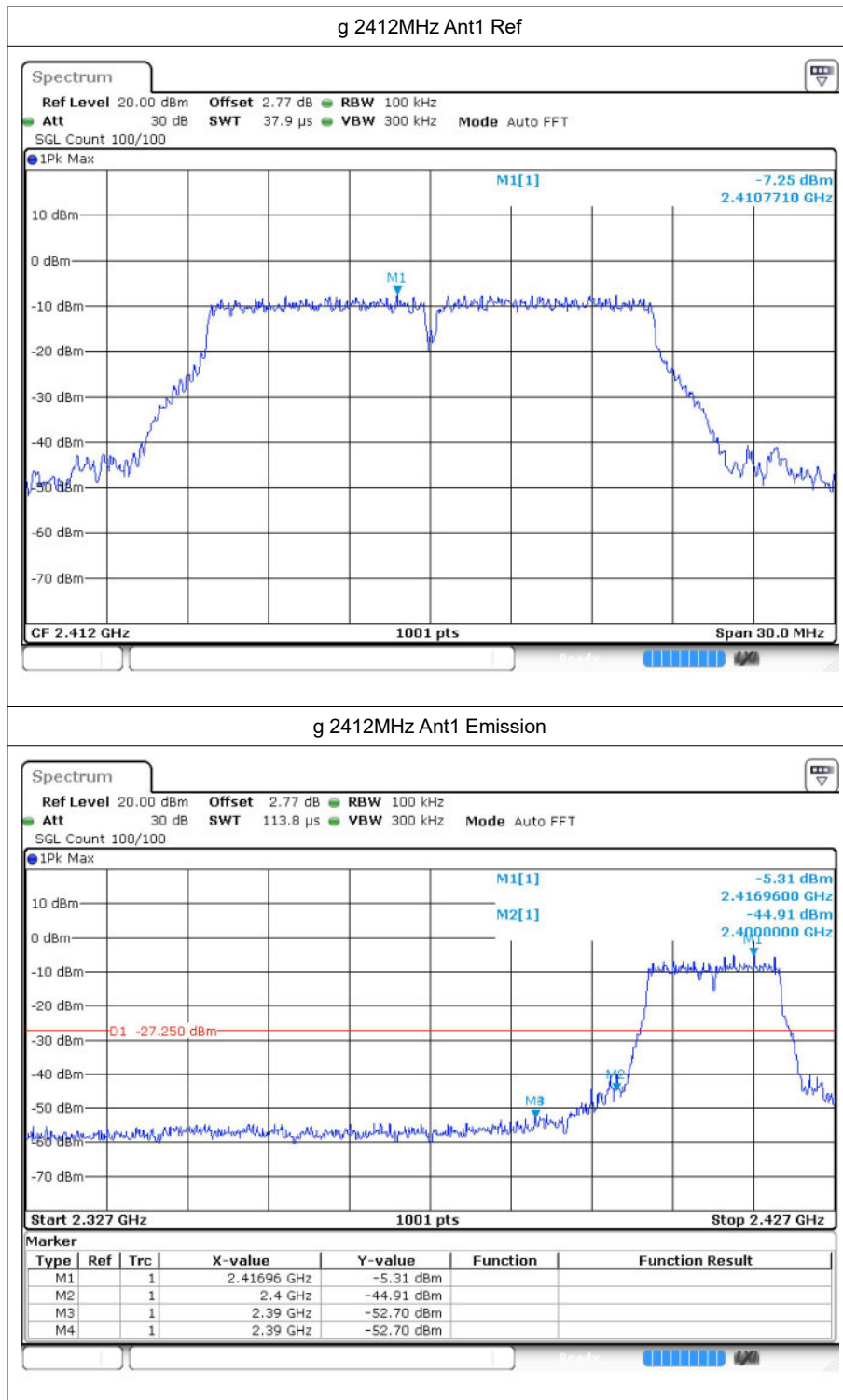
5.1 Test Result

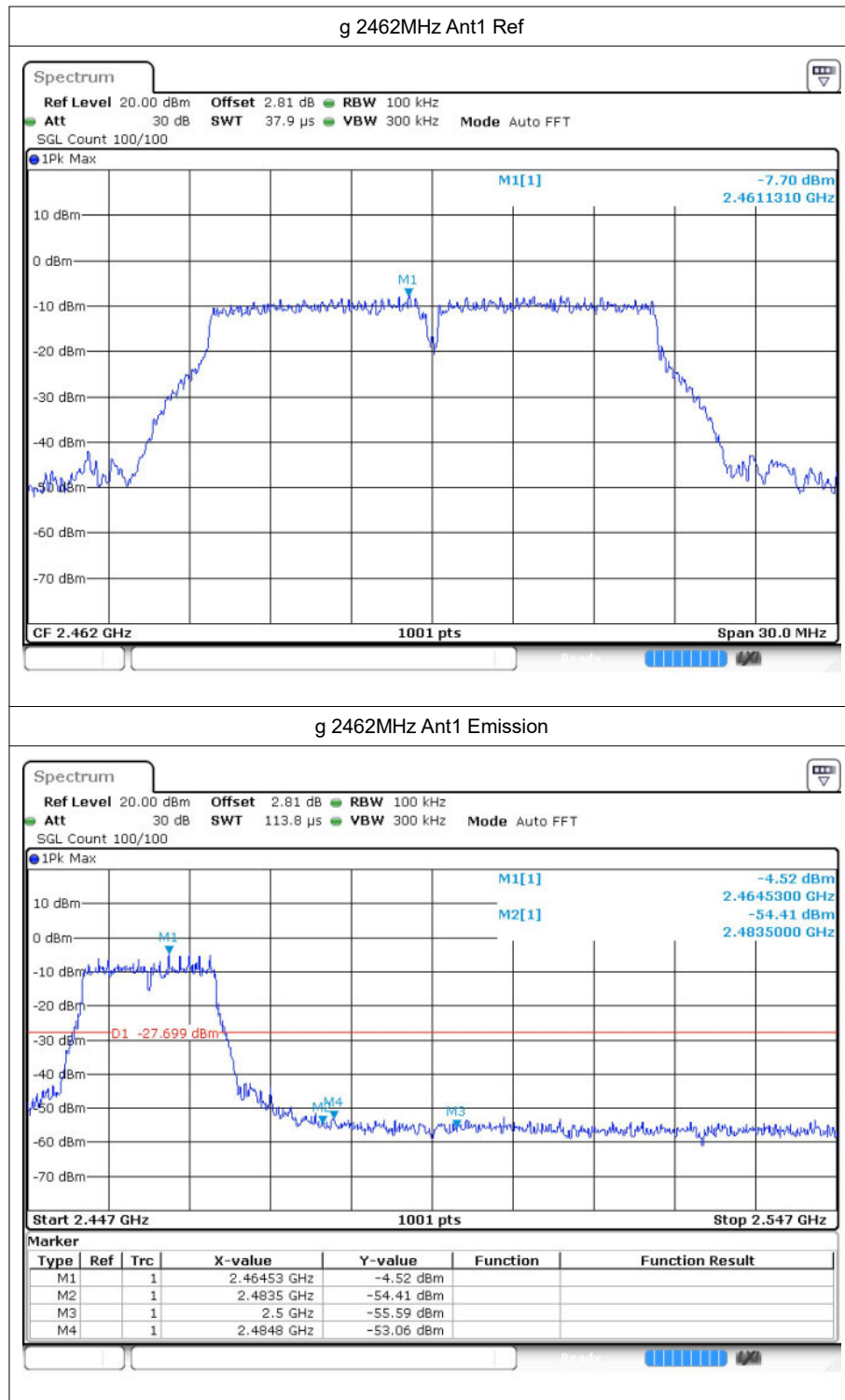
Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
b	2412	Ant1	-52.54	-20	Pass
b	2462	Ant1	-50.47	-20	Pass
g	2412	Ant1	-45.44	-20	Pass
g	2462	Ant1	-45.35	-20	Pass
n20	2412	Ant1	-44.6	-20	Pass
n20	2462	Ant1	-46.98	-20	Pass

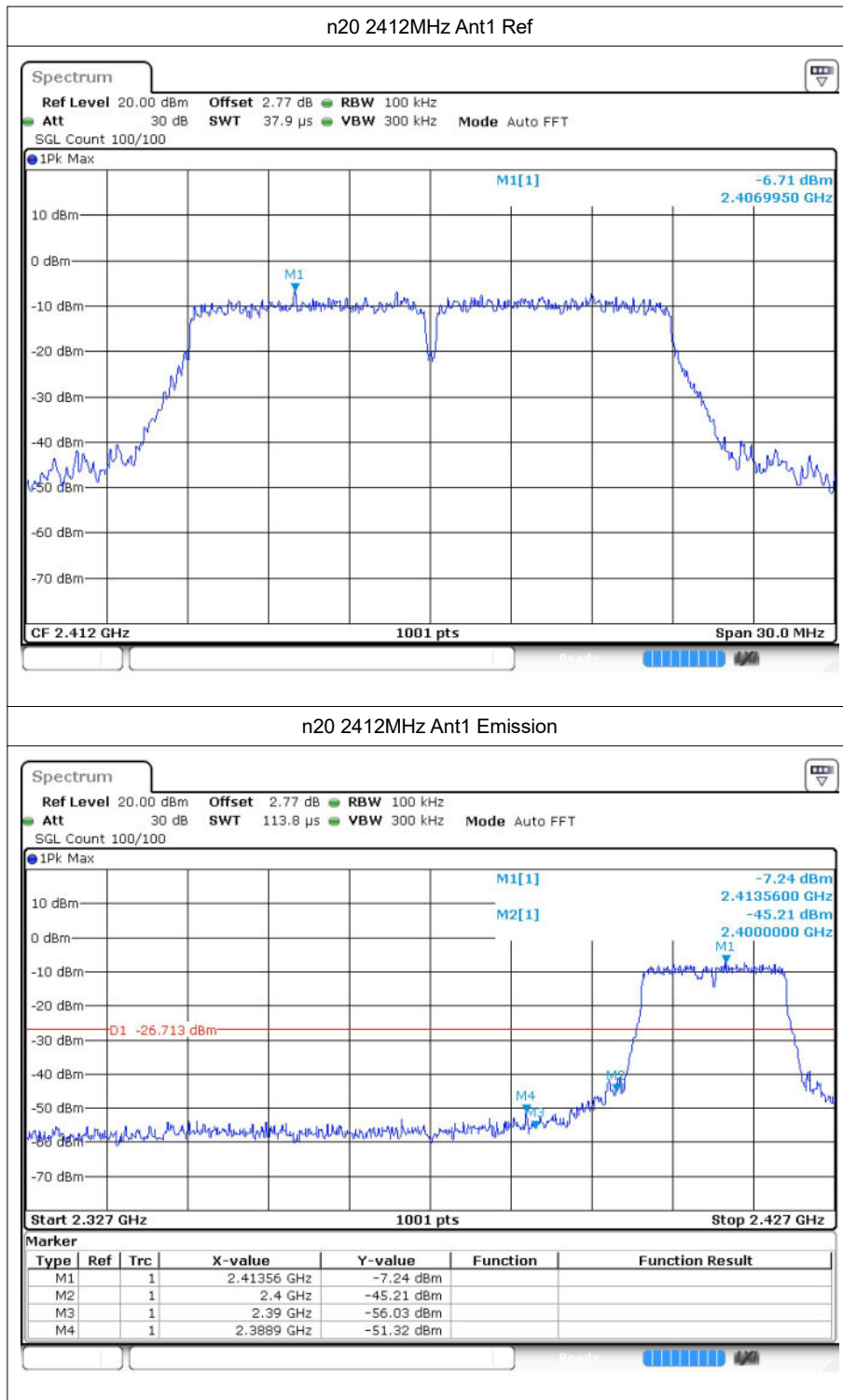
5.2 Test Graphs

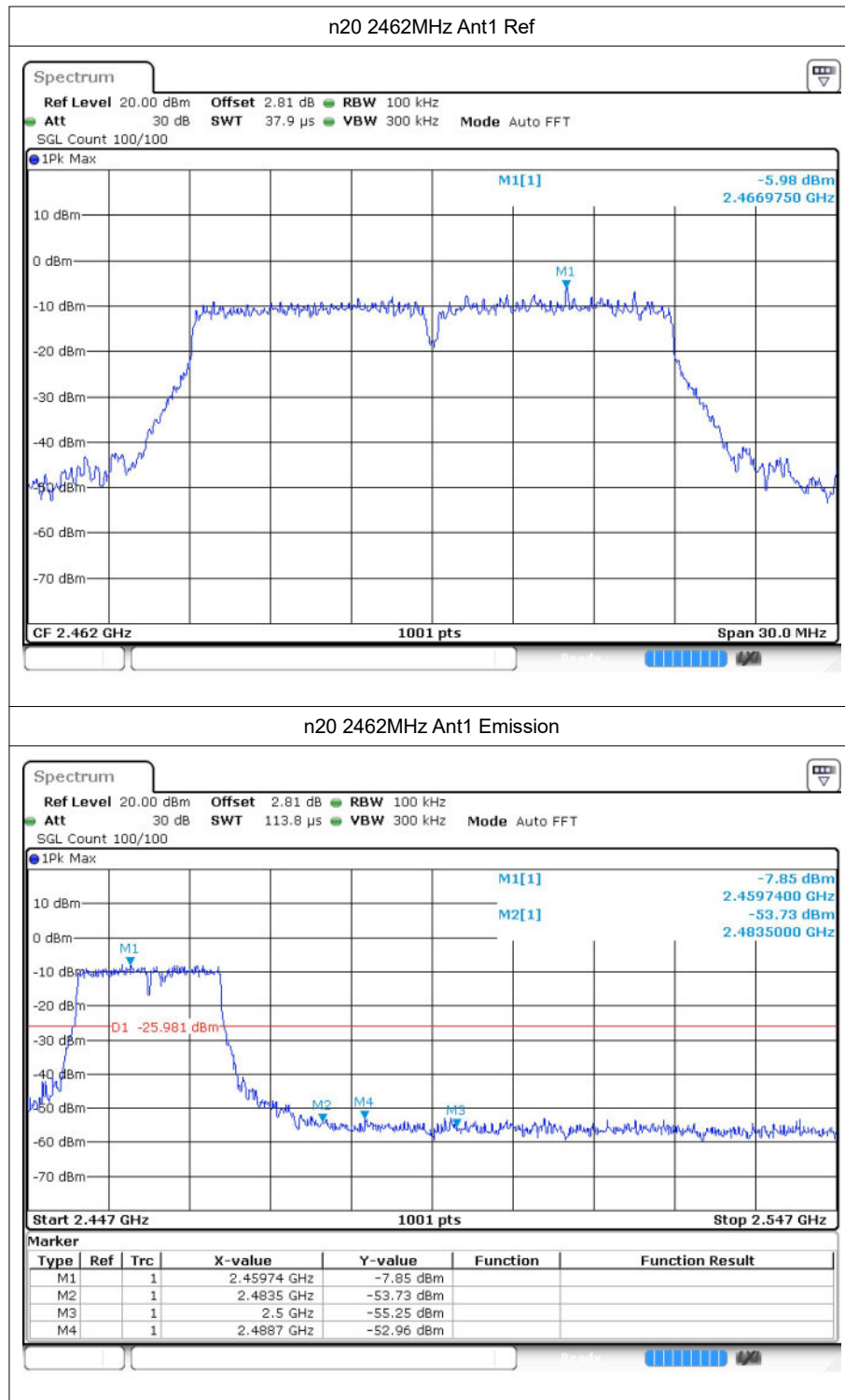












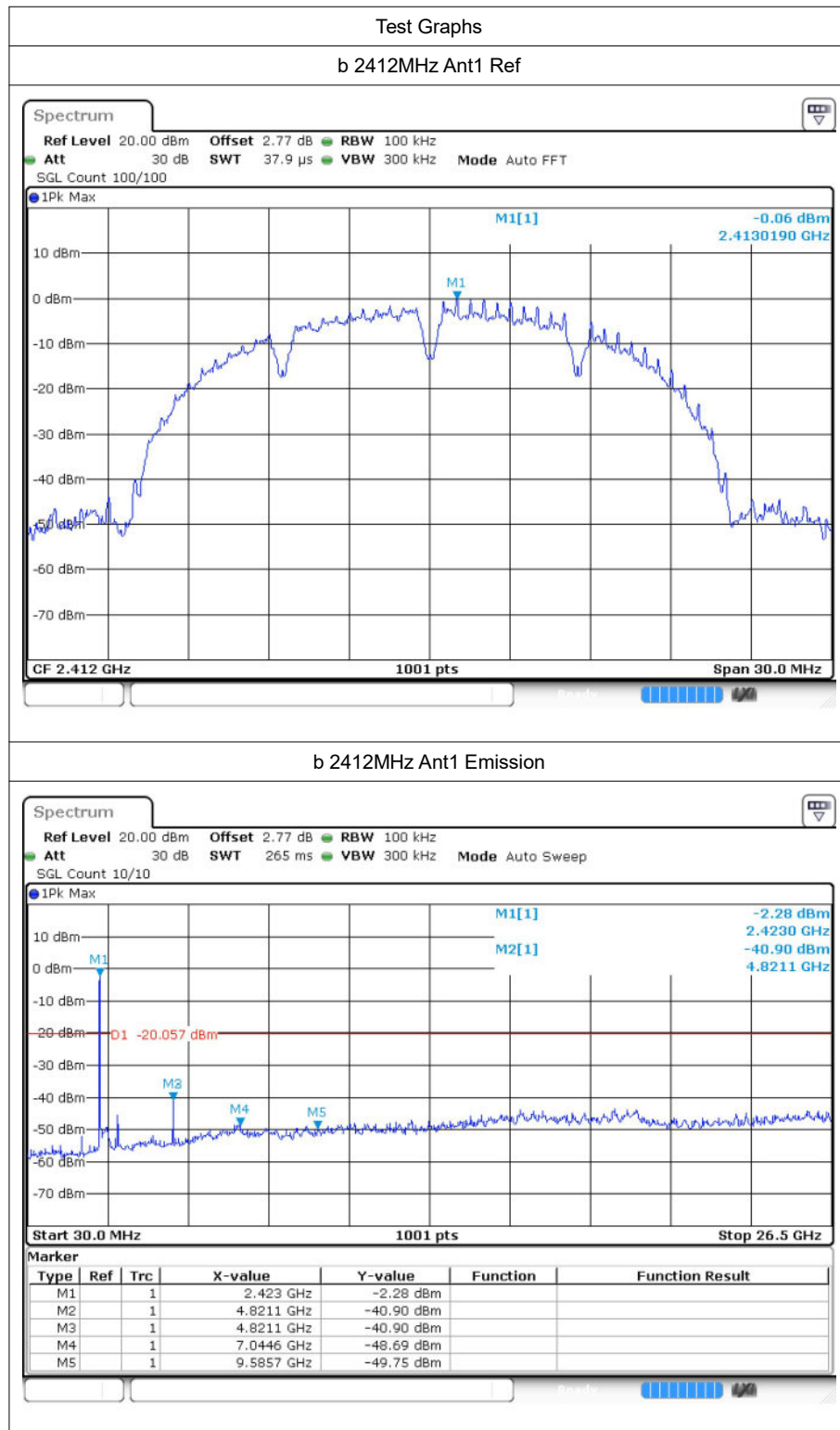


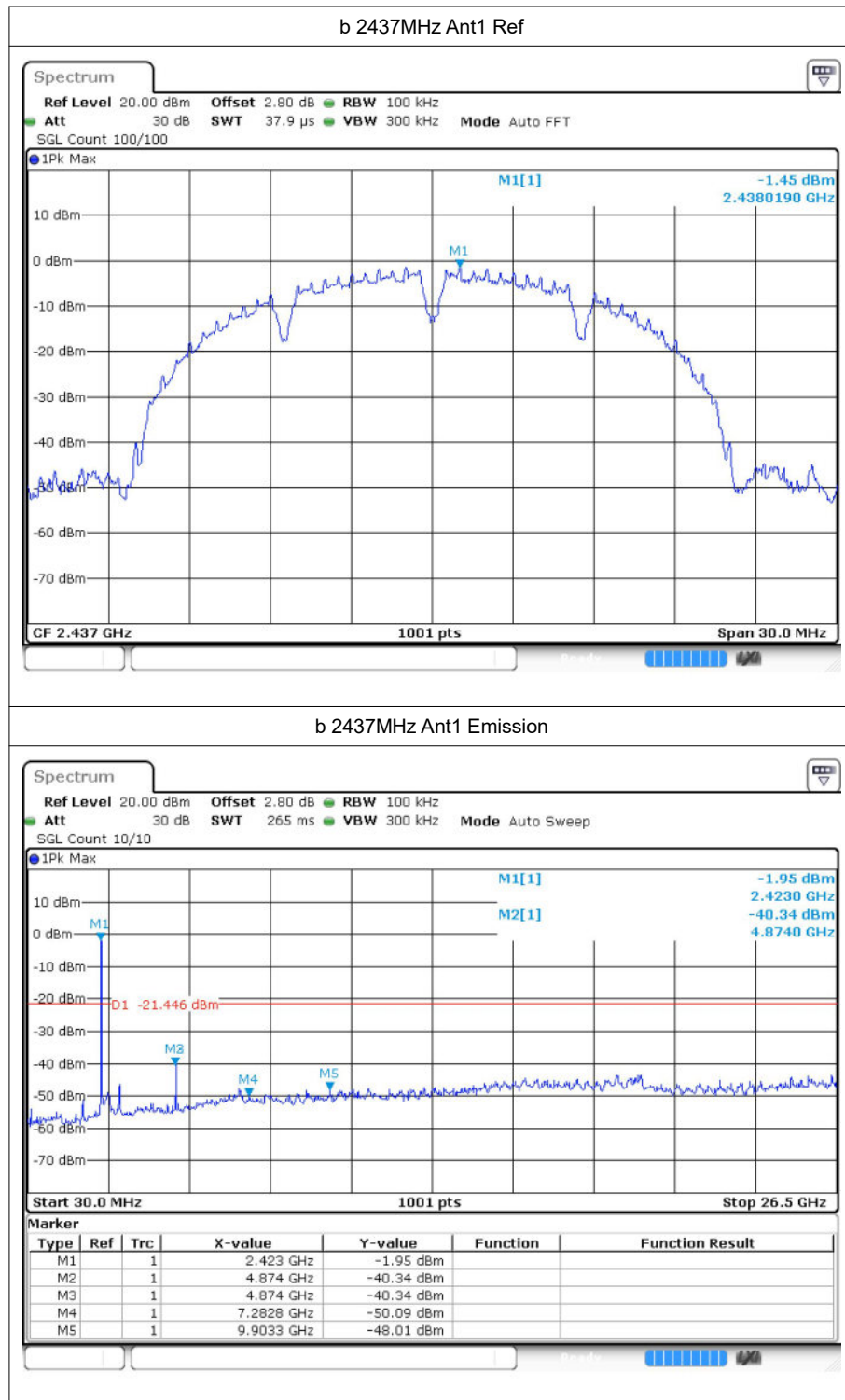
6 Conducted RF Spurious Emission

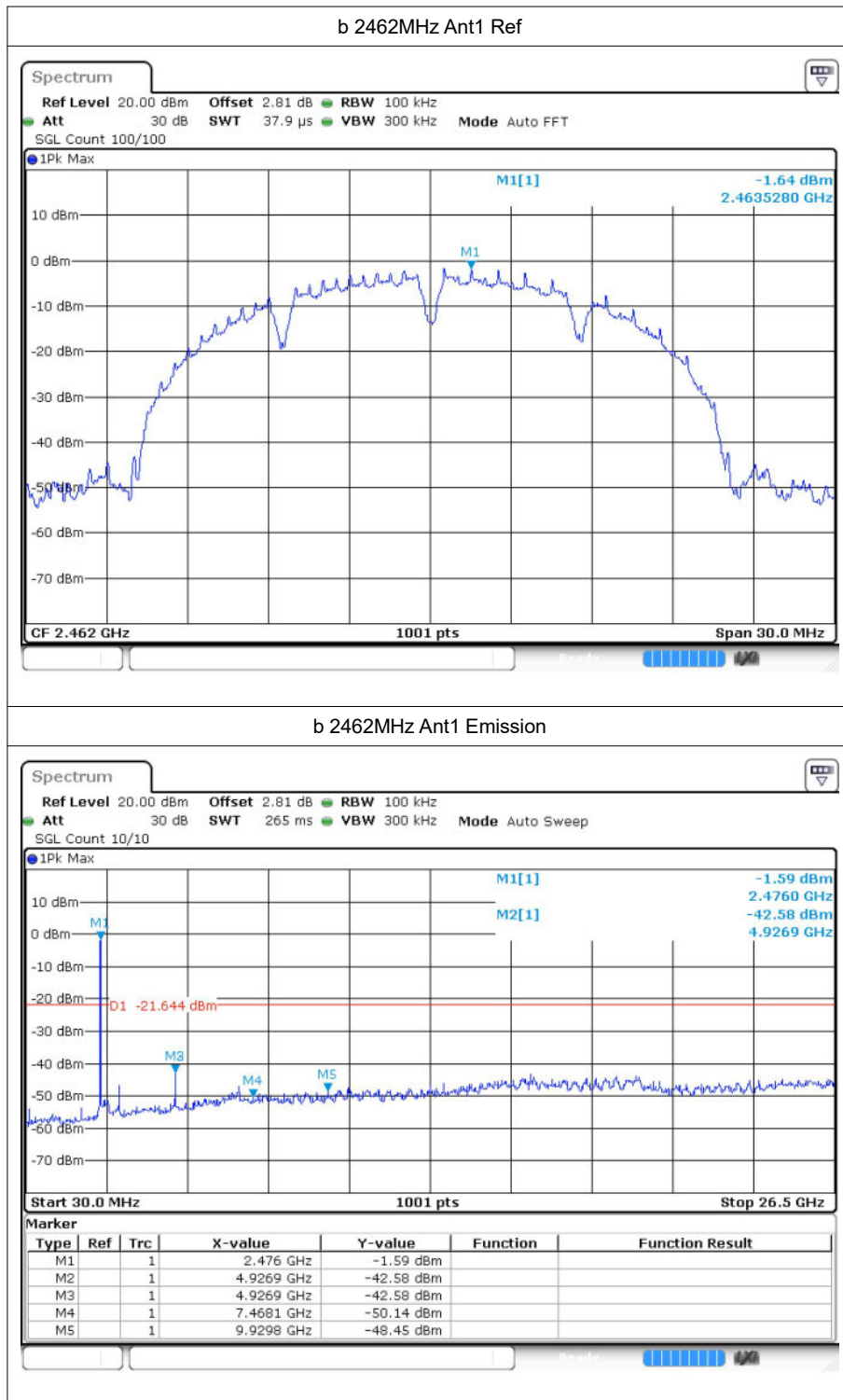
6.1 Test Result

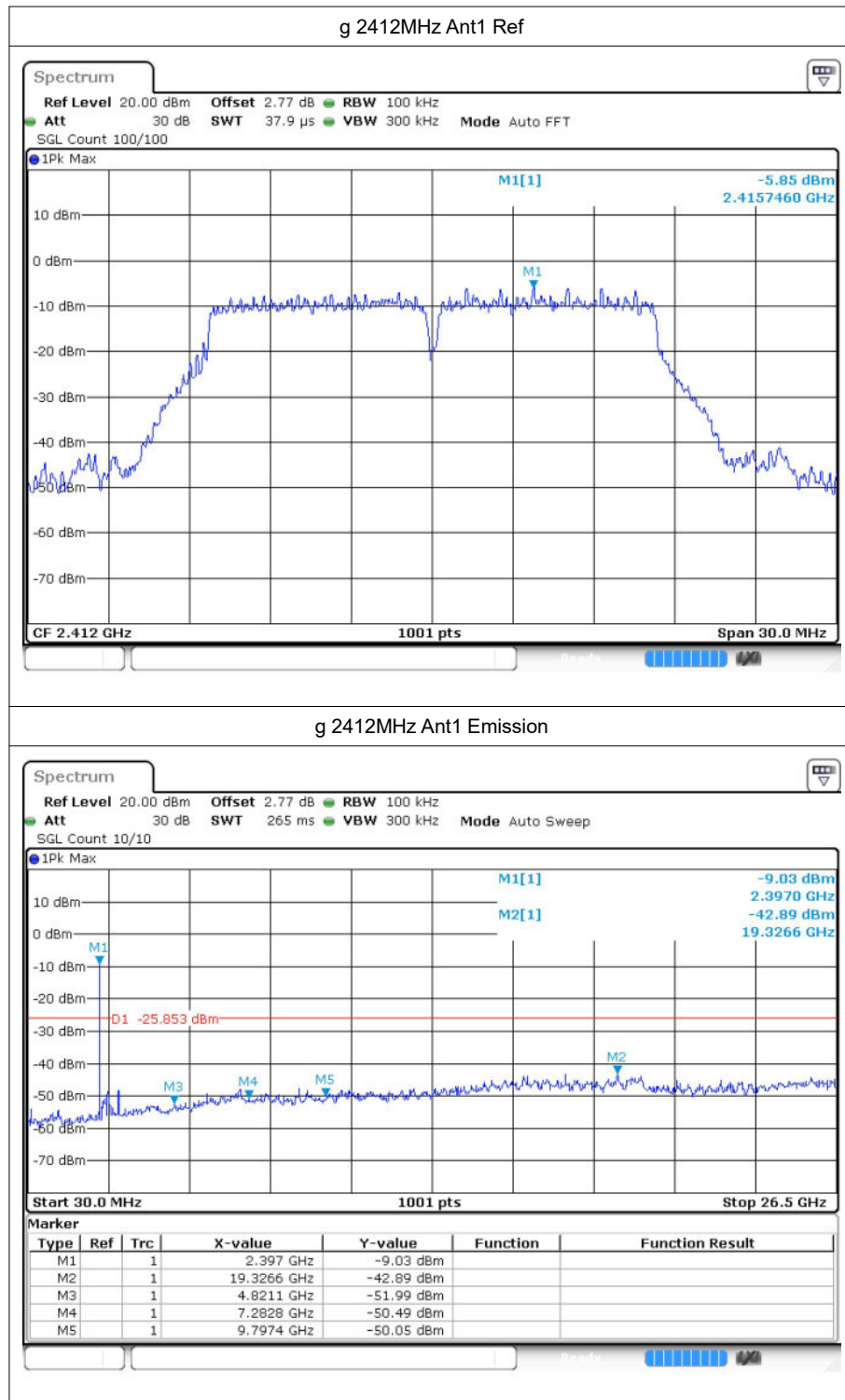
Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
b	2412	Ant1	-40.84	-20	Pass
b	2437	Ant1	-38.88	-20	Pass
b	2462	Ant1	-40.93	-20	Pass
g	2412	Ant1	-37.03	-20	Pass
g	2437	Ant1	-35.67	-20	Pass
g	2462	Ant1	-35.07	-20	Pass
n20	2412	Ant1	-36.89	-20	Pass
n20	2437	Ant1	-36.61	-20	Pass
n20	2462	Ant1	-34.37	-20	Pass

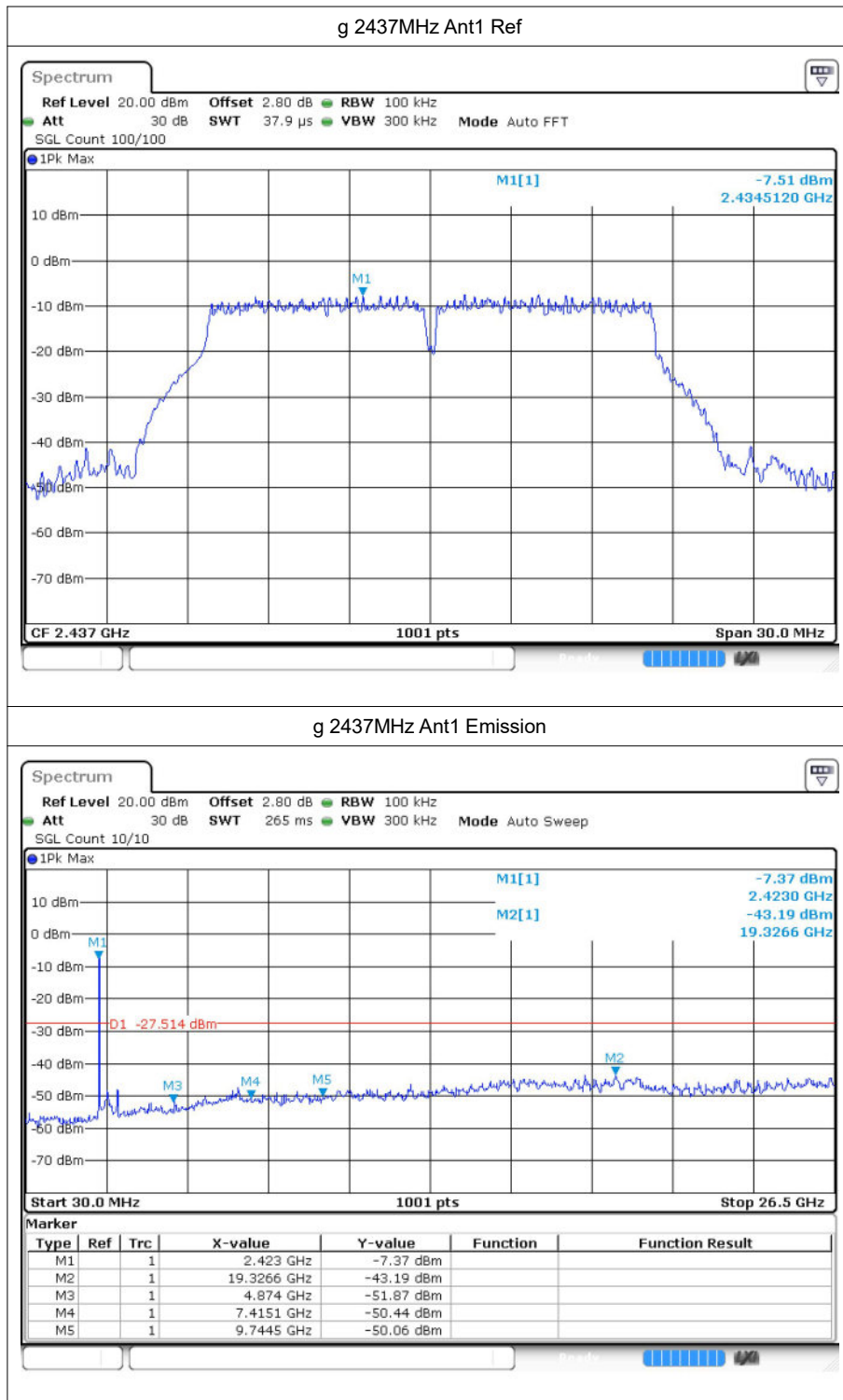
6.2 Test Graphs

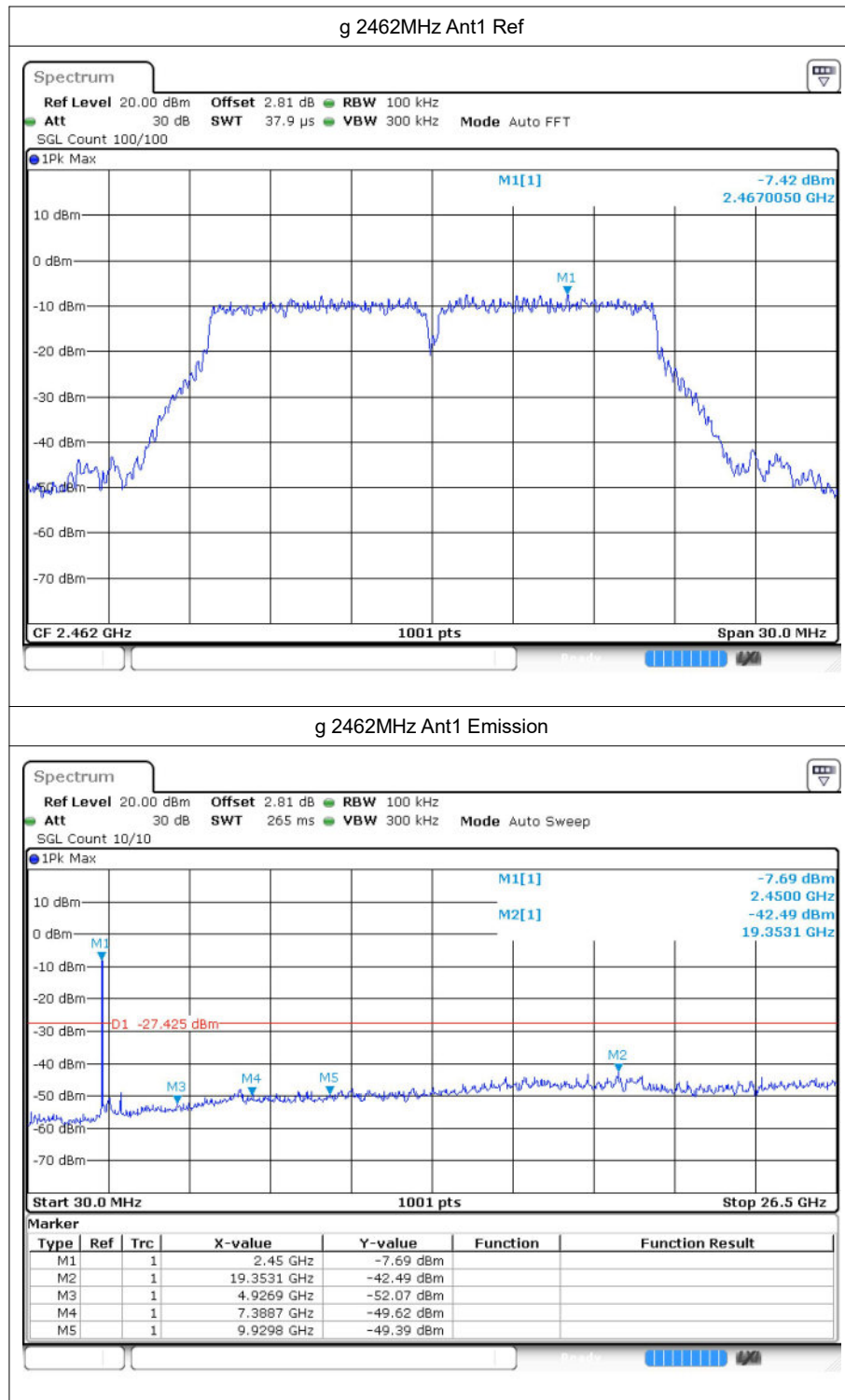


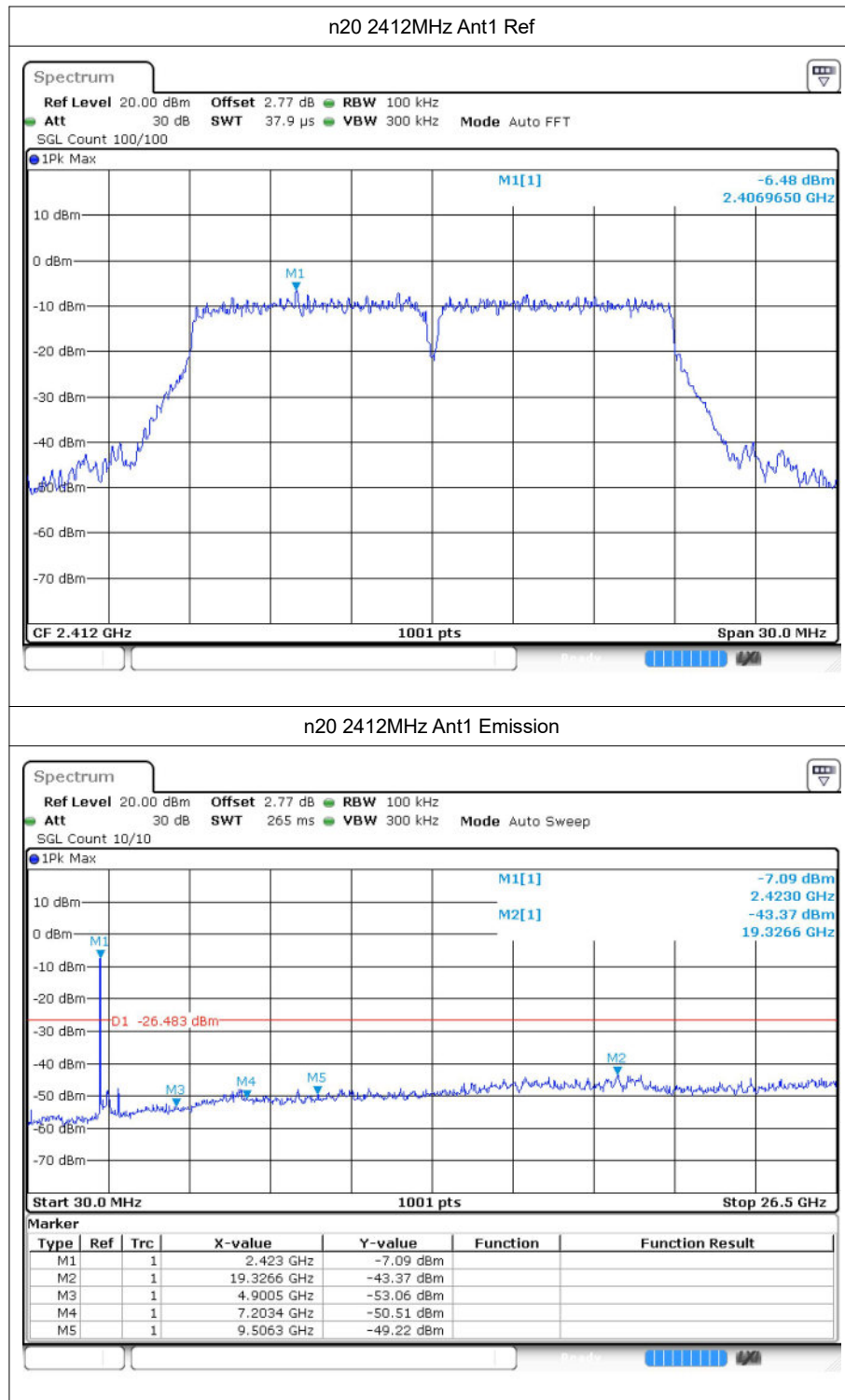


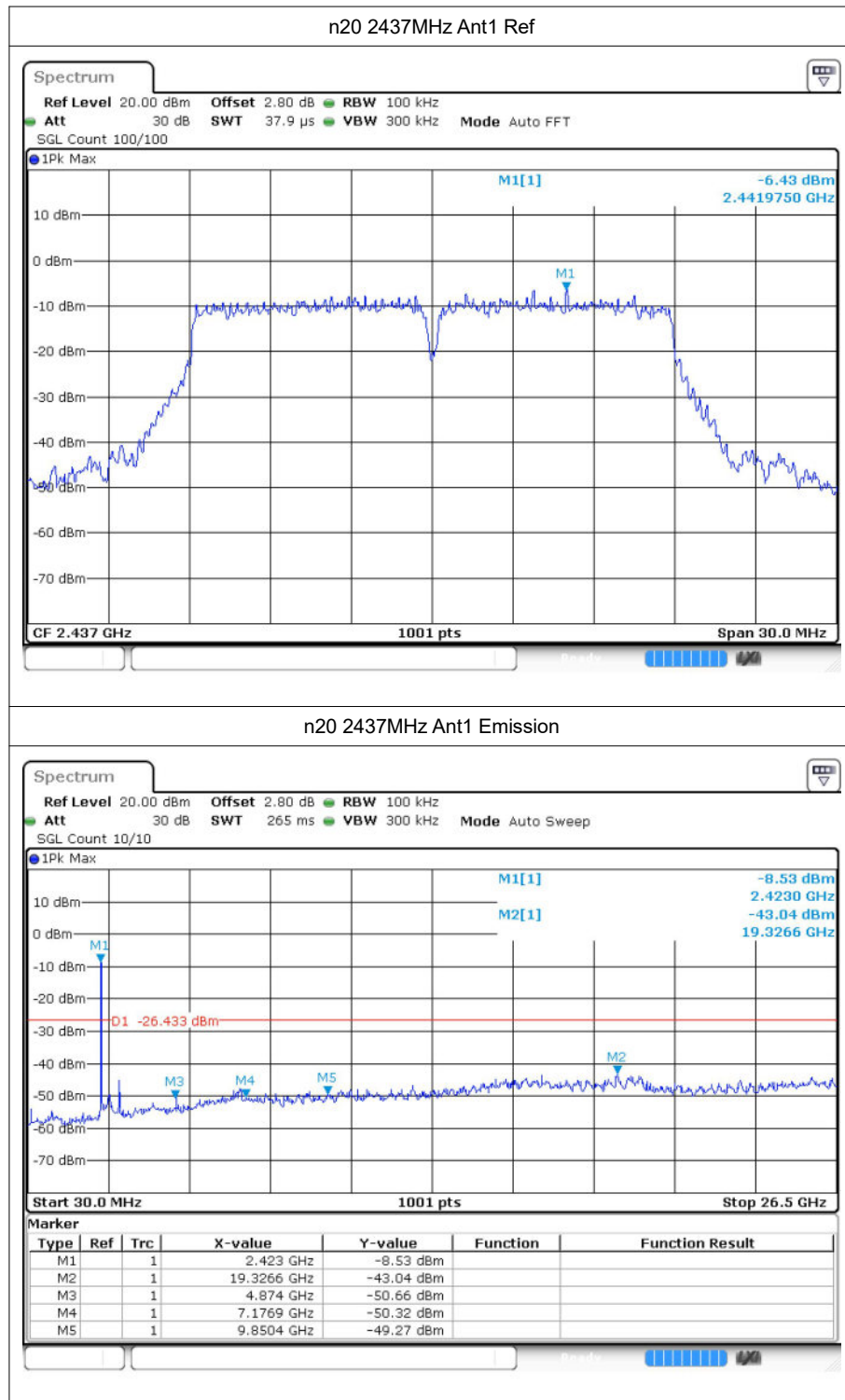


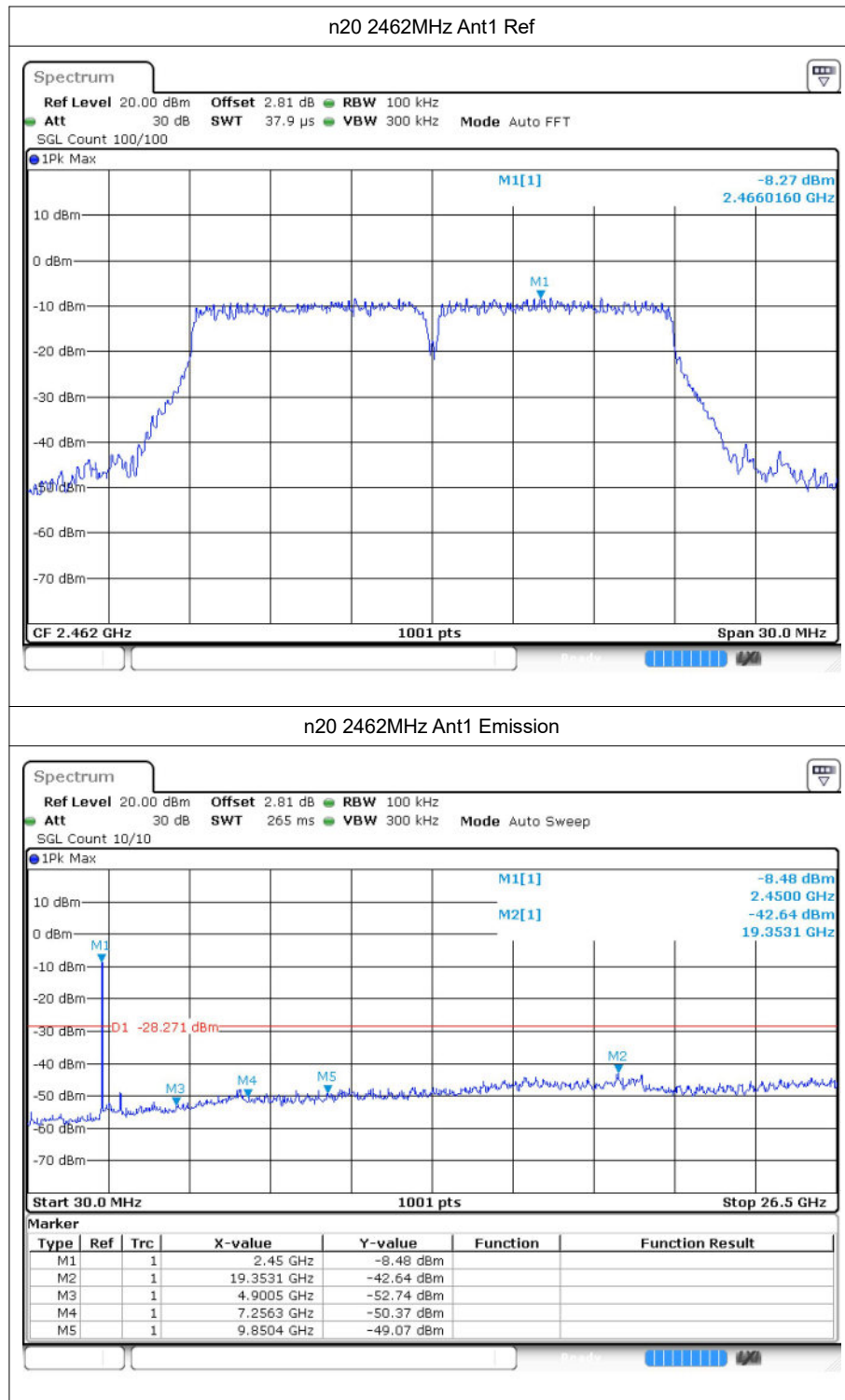














7 Restrict Band

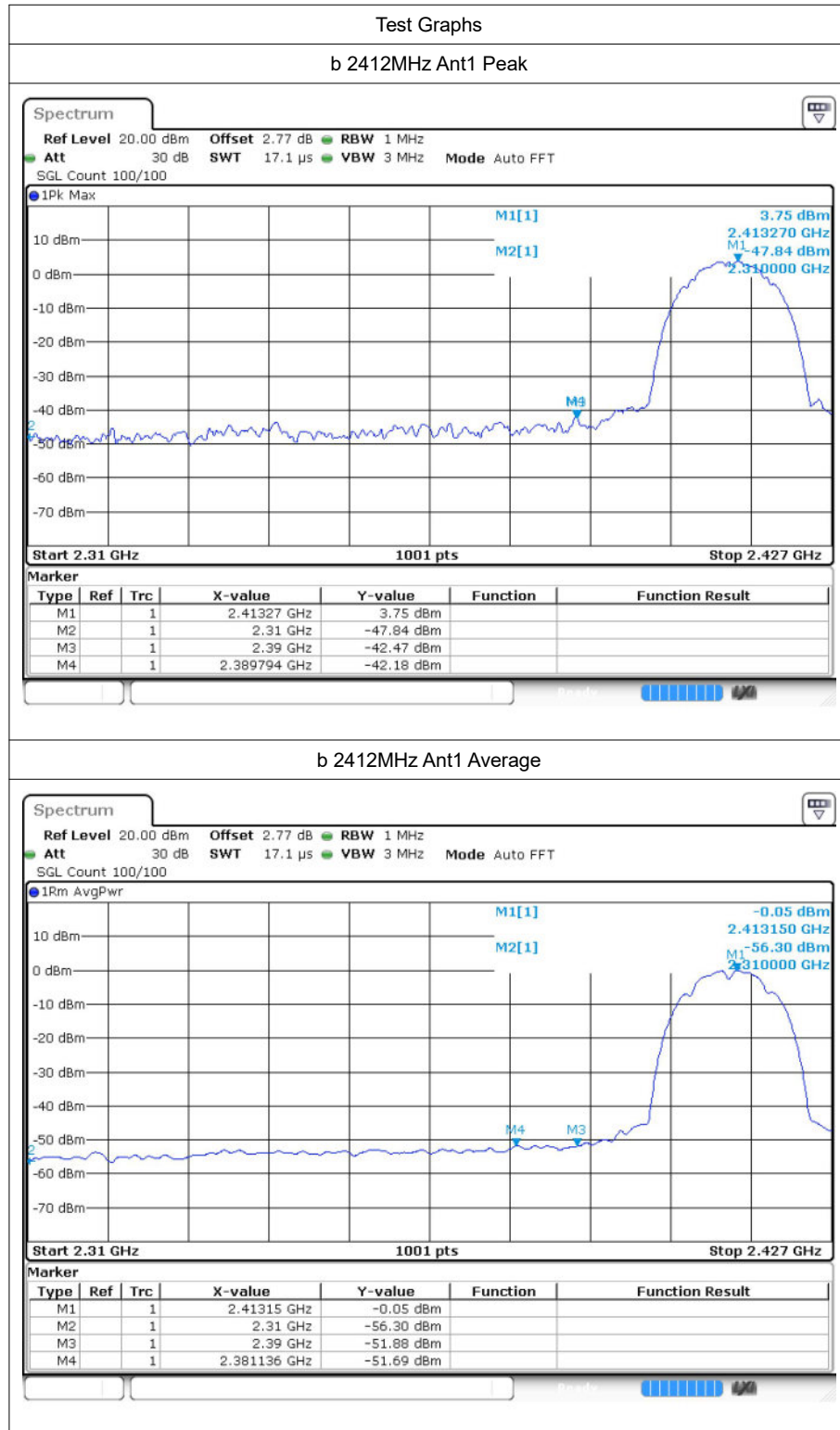
7.1 Test Result

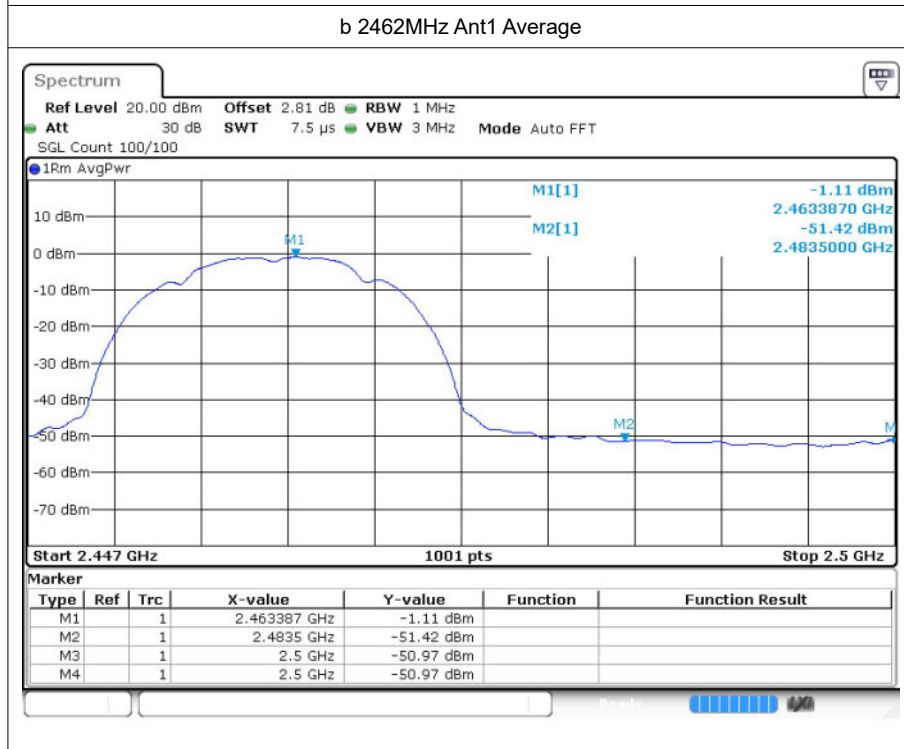
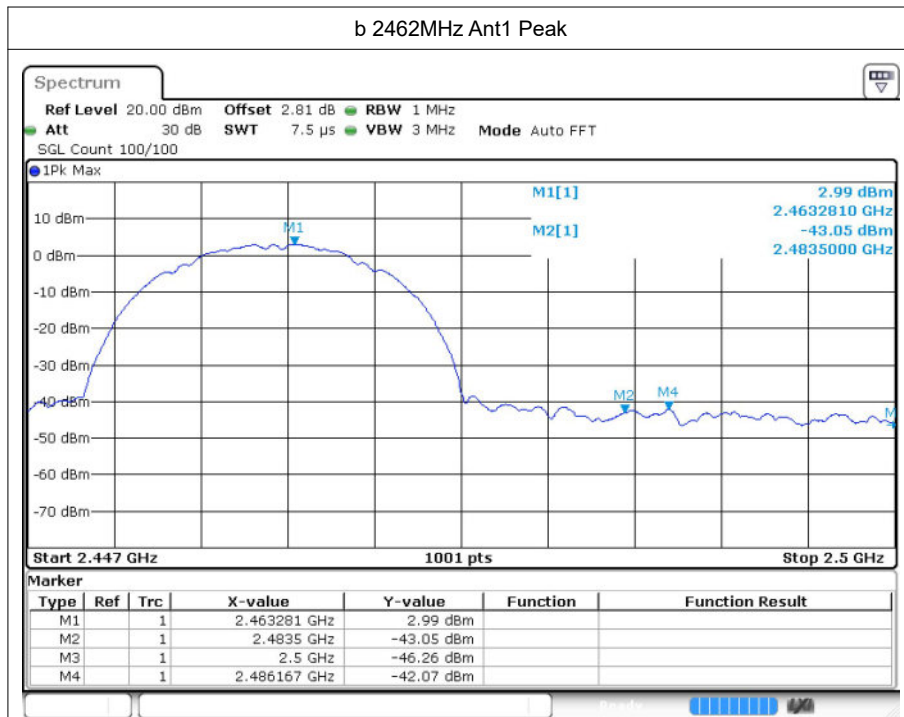
Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
b	2412	Ant1	2310	-47.84	2.69	-	50.08	Peak	74	Pass
b	2412	Ant1	2310	-56.3	2.69	0.66	42.28	Average	54	Pass
b	2412	Ant1	2389.794	-42.18	2.69	-	55.74	Peak	74	Pass
b	2412	Ant1	2381.136	-51.68	2.69	0.66	46.90	Average	54	Pass
b	2412	Ant1	2390	-42.47	2.69	-	55.45	Peak	74	Pass
b	2412	Ant1	2390	-51.88	2.69	0.66	46.70	Average	54	Pass
b	2462	Ant1	2483.5	-43.05	2.69	-	54.87	Peak	74	Pass
b	2462	Ant1	2483.5	-51.42	2.69	0.67	47.17	Average	54	Pass
b	2462	Ant1	2486.167	-42.07	2.69	-	55.85	Peak	74	Pass
b	2462	Ant1	2500	-50.96	2.69	0.67	47.63	Average	54	Pass
b	2462	Ant1	2500	-46.26	2.69	-	51.66	Peak	74	Pass
b	2462	Ant1	2500	-50.97	2.69	0.67	47.62	Average	54	Pass
g	2412	Ant1	2310	-48.81	2.69	-	49.11	Peak	74	Pass
g	2412	Ant1	2310	-56.28	2.69	2.98	44.62	Average	54	Pass
g	2412	Ant1	2387.337	-43.85	2.69	-	54.07	Peak	74	Pass
g	2412	Ant1	2336.559	-53.72	2.69	2.98	47.18	Average	54	Pass
g	2412	Ant1	2390	-45.65	2.69	-	52.27	Peak	74	Pass
g	2412	Ant1	2390	-53.87	2.69	2.98	47.03	Average	54	Pass
g	2462	Ant1	2483.5	-42.92	2.69	-	55.00	Peak	74	Pass
g	2462	Ant1	2483.5	-54.75	2.69	3.08	46.25	Average	54	Pass
g	2462	Ant1	2486.167	-42.92	2.69	-	55.00	Peak	74	Pass
g	2462	Ant1	2485.69	-53.17	2.69	3.08	47.83	Average	54	Pass
g	2462	Ant1	2500	-47.18	2.69	-	50.74	Peak	74	Pass
g	2462	Ant1	2500	-53.73	2.69	3.08	47.27	Average	54	Pass
n20	2412	Ant1	2310	-49.15	2.69	-	48.77	Peak	74	Pass
n20	2412	Ant1	2310	-55.99	2.69	3.06	44.99	Average	54	Pass
n20	2412	Ant1	2370.021	-45.57	2.69	-	52.35	Peak	74	Pass
n20	2412	Ant1	2389.911	-54.11	2.69	3.06	46.87	Average	54	Pass
n20	2412	Ant1	2390	-46.51	2.69	-	51.41	Peak	74	Pass
n20	2412	Ant1	2390	-53.88	2.69	3.06	47.10	Average	54	Pass
n20	2462	Ant1	2483.5	-44.56	2.69	-	53.36	Peak	74	Pass
n20	2462	Ant1	2483.5	-53.44	2.69	3.11	47.59	Average	54	Pass
n20	2462	Ant1	2488.658	-43.76	2.69	-	54.16	Peak	74	Pass
n20	2462	Ant1	2486.008	-53.18	2.69	3.11	47.85	Average	54	Pass

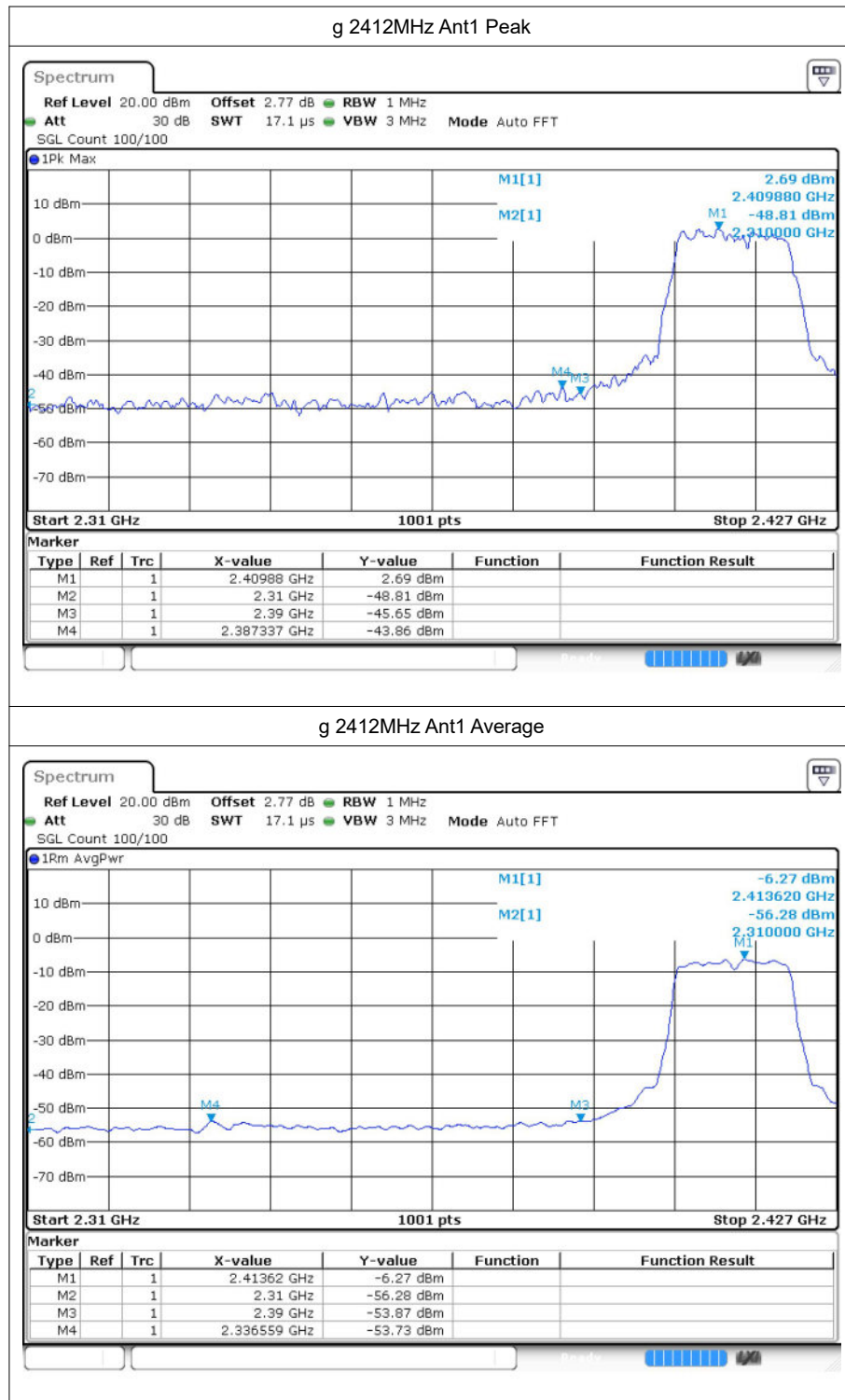


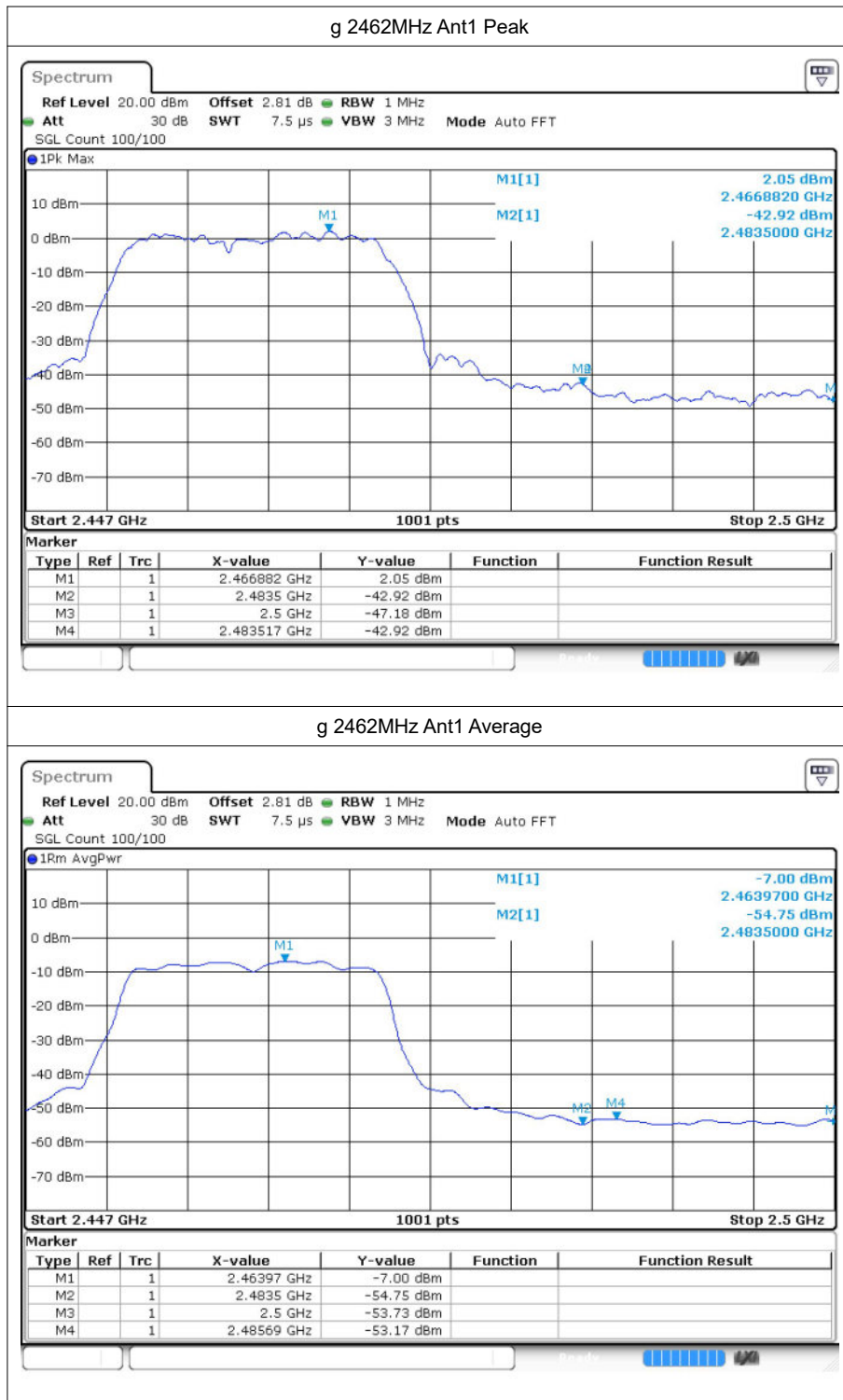
n20	2462	Ant1	2500	-47.03	2.69	-	50.89	Peak	74	Pass
n20	2462	Ant1	2500	-55.4	2.69	3.11	45.63	Average	54	Pass

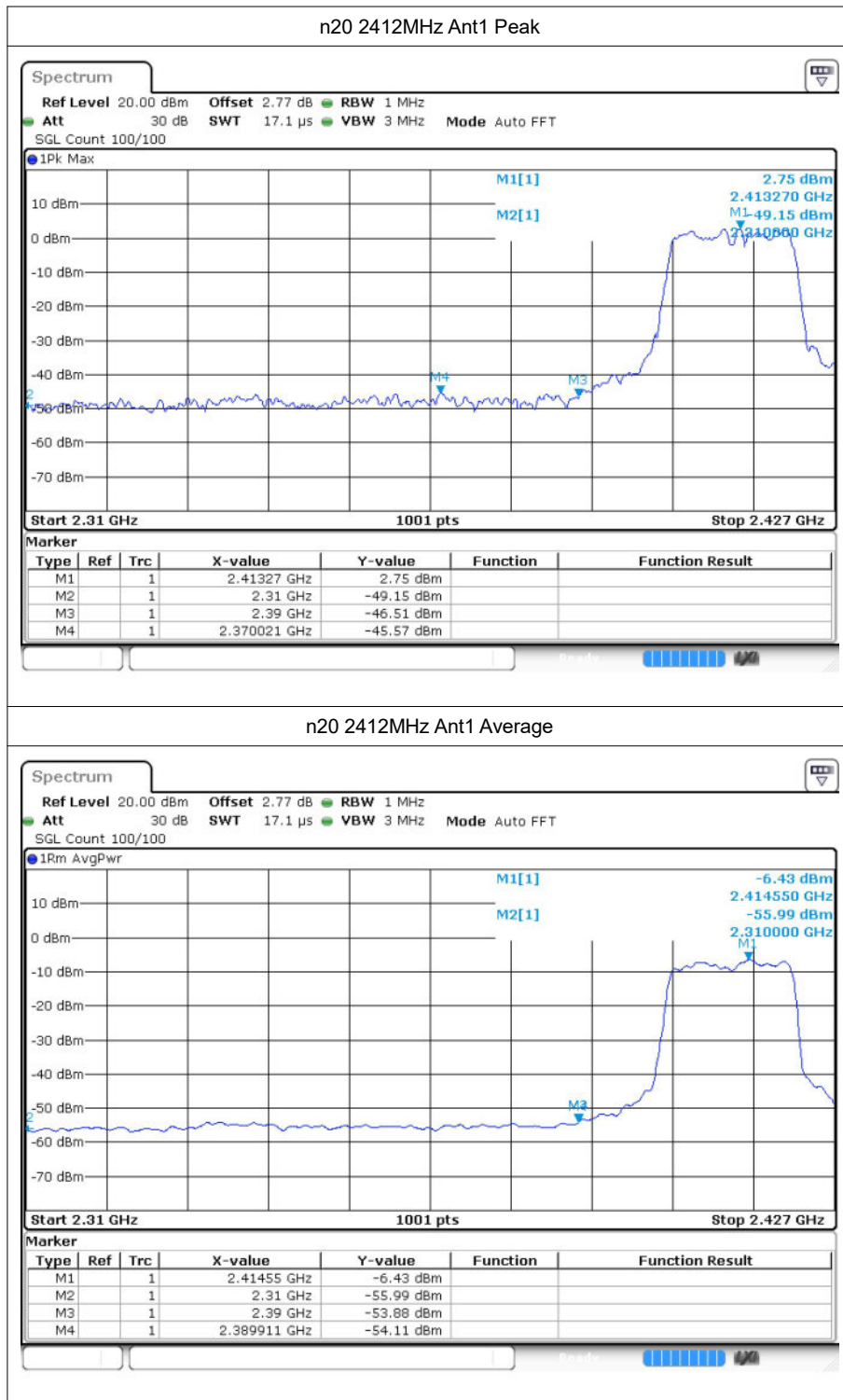
7.2 Test Graphs

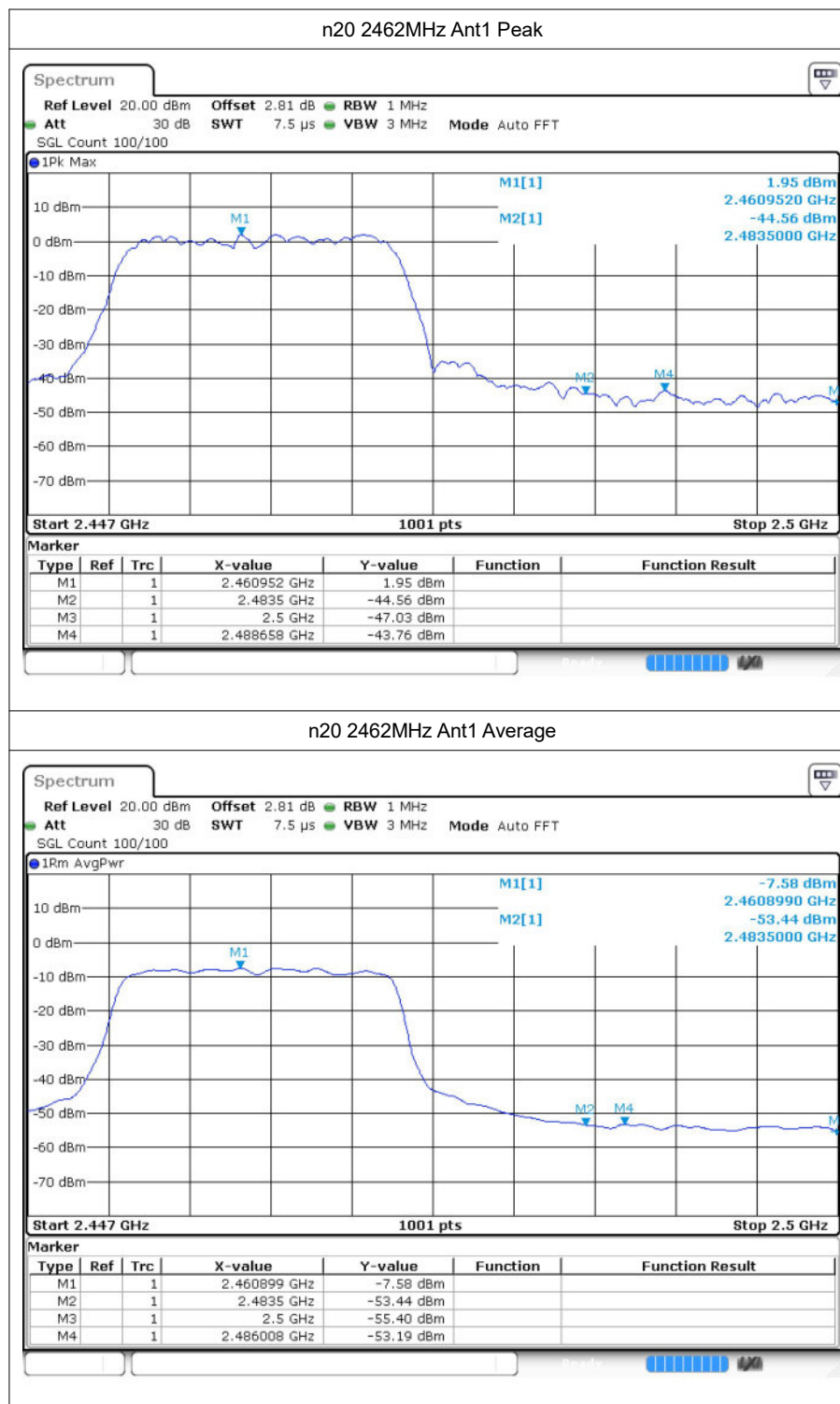












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