



Appendix C

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: WIFI Photo Frame

Trade Mark: N/A

Test Model: PF-1034W

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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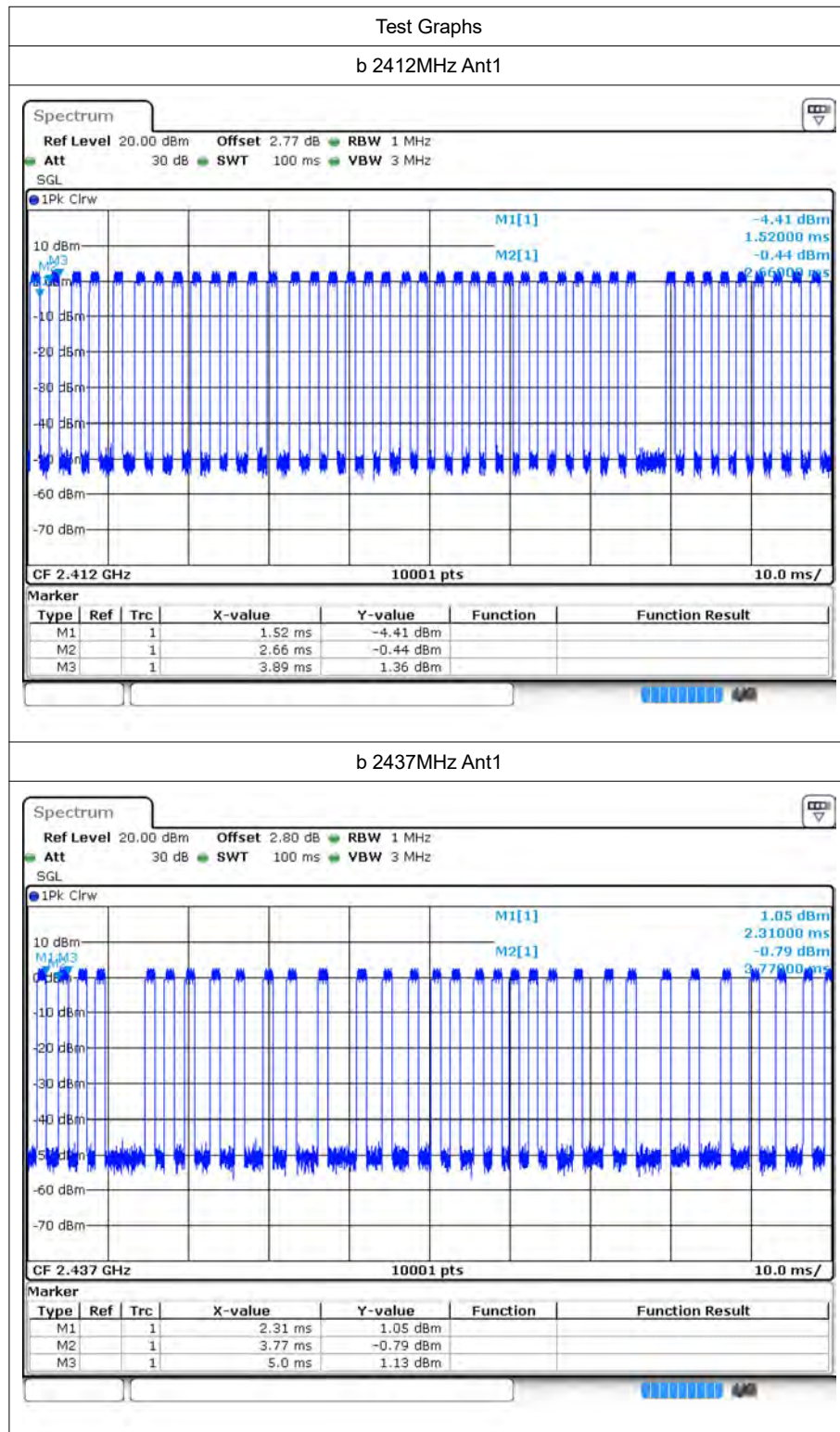


1 Duty Cycle

1.1 Test Result

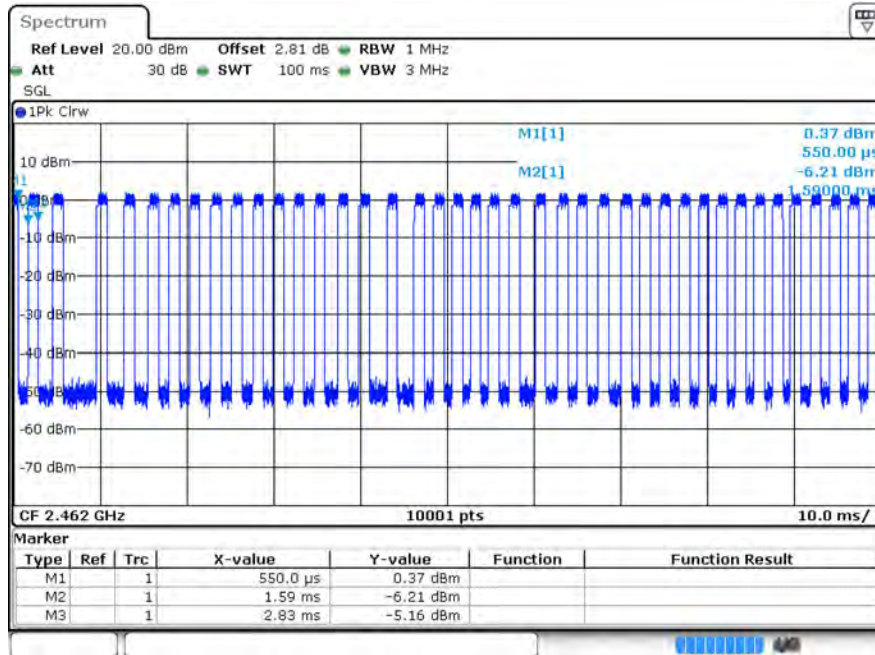
Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor	1/T (kHz)
b	2412	Ant1	52.33	2.81	0.81
b	2437	Ant1	39.44	4.04	0.81
b	2462	Ant1	50.28	2.99	0.81
g	2412	Ant1	15.2	8.18	4.35
g	2437	Ant1	20.67	6.85	4.17
g	2462	Ant1	8.88	10.52	4.17
n20	2412	Ant1	12.74	8.95	4.55
n20	2437	Ant1	10.31	9.87	4.55
n20	2462	Ant1	17.92	7.47	4.55

1.2 Test Graphs

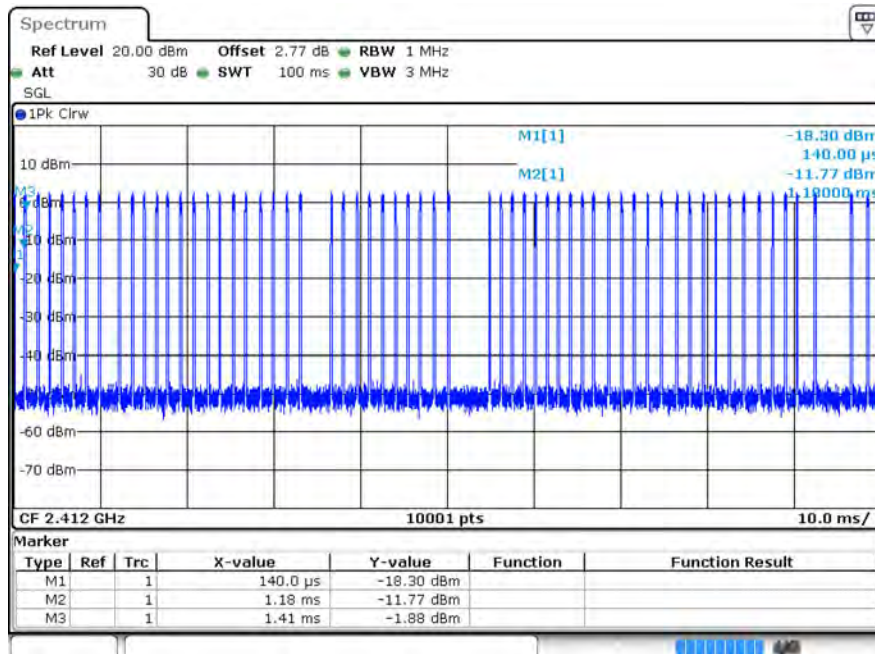


Test Graphs

b 2462MHz Ant1

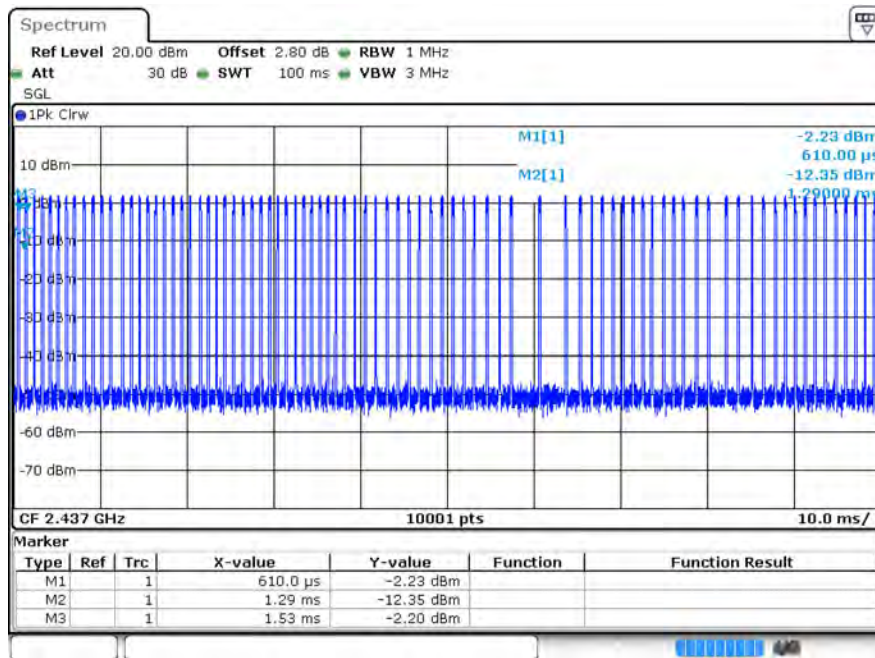


g 2412MHz Ant1

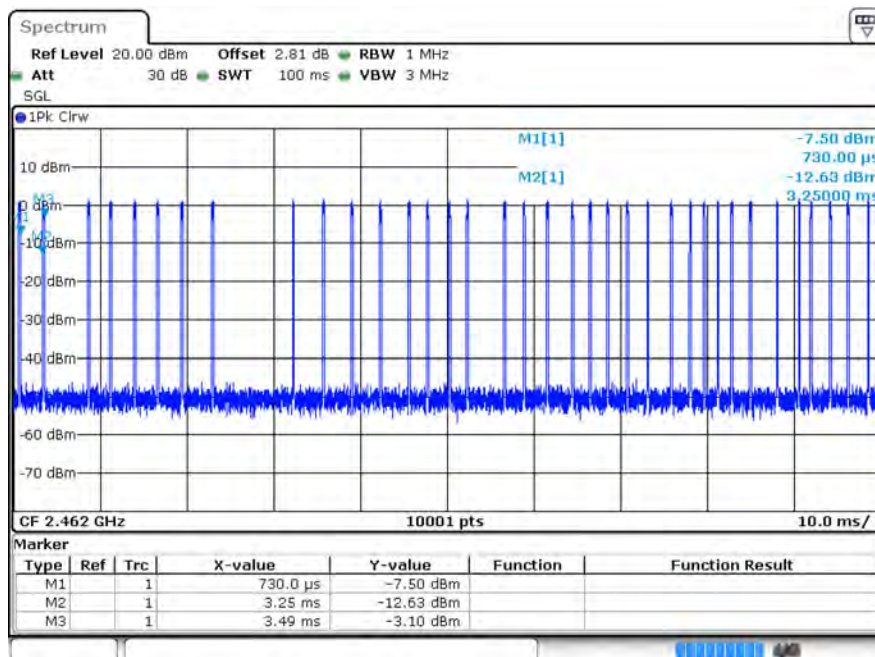


Test Graphs

g 2437MHz Ant1

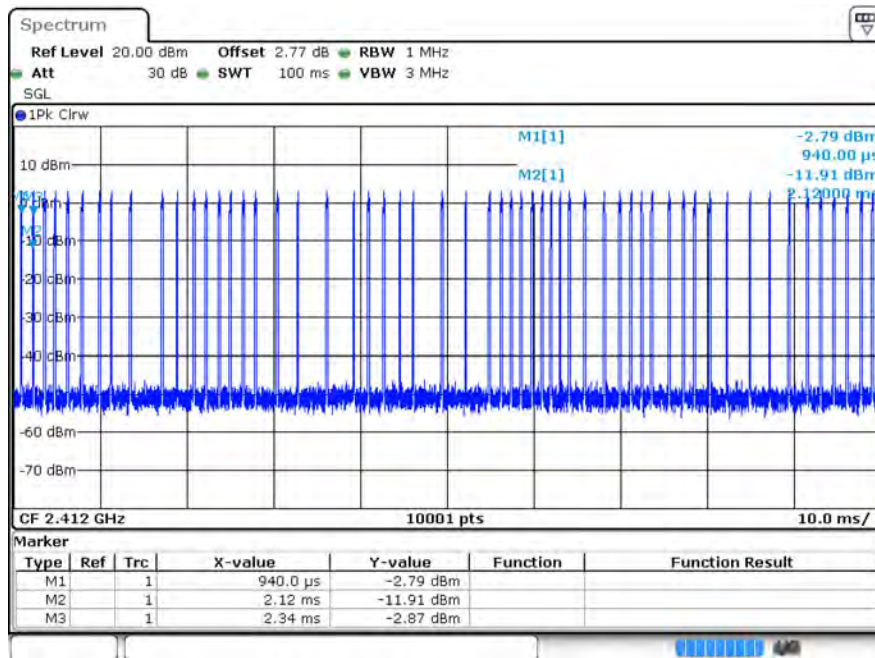


g 2462MHz Ant1

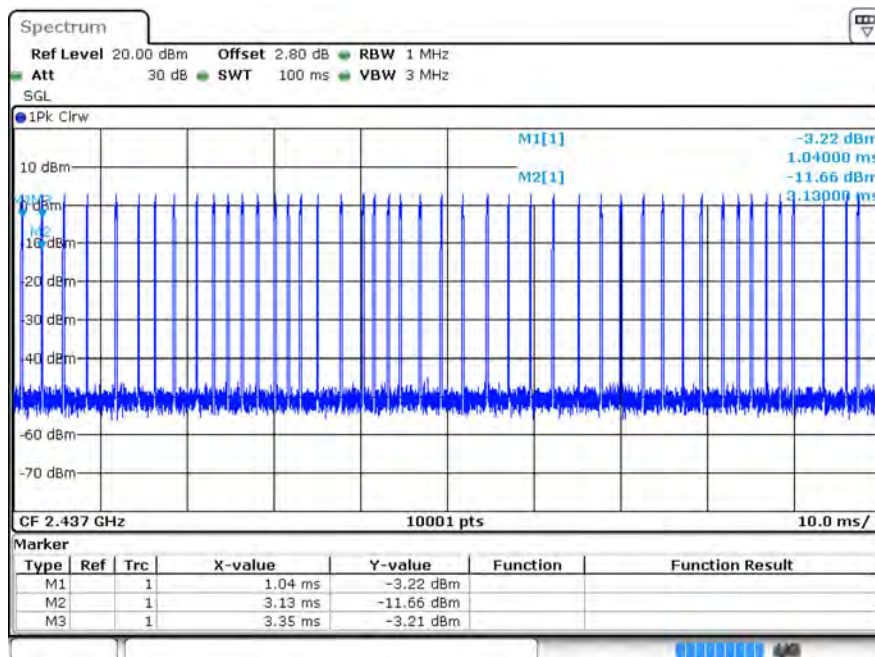


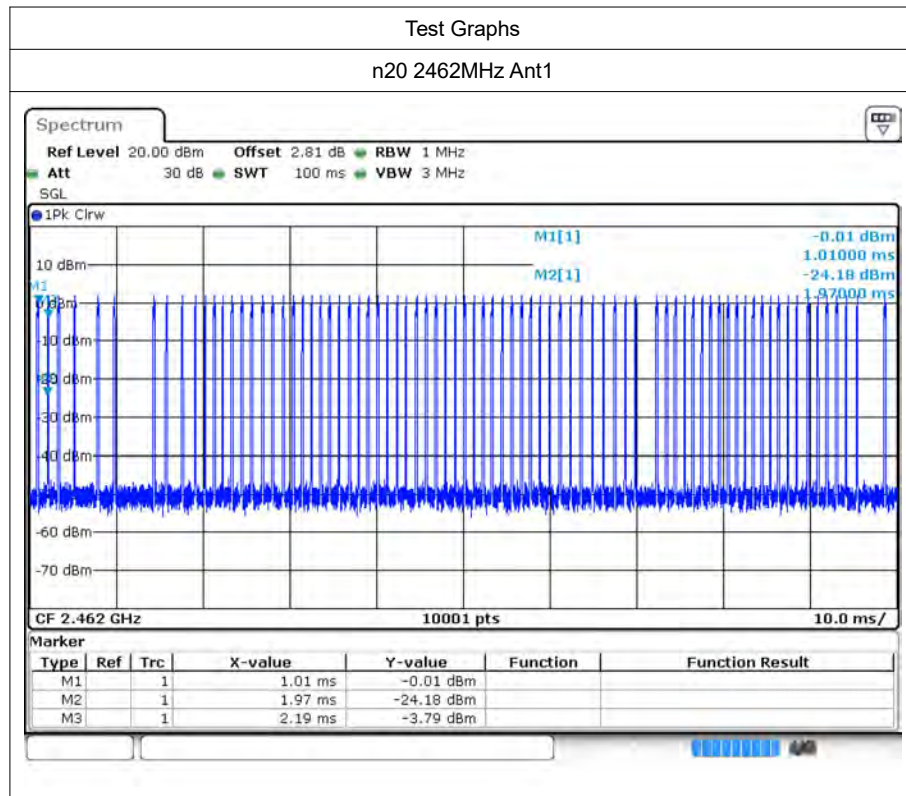
Test Graphs

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	12.12	30	Pass
b	2437	Ant1	11.93	30	Pass
b	2462	Ant1	11.17	30	Pass
g	2412	Ant1	12.42	30	Pass
g	2437	Ant1	12.73	30	Pass
g	2462	Ant1	11.47	30	Pass
n20	2412	Ant1	13.26	30	Pass
n20	2437	Ant1	12.18	30	Pass
n20	2462	Ant1	11.91	30	Pass

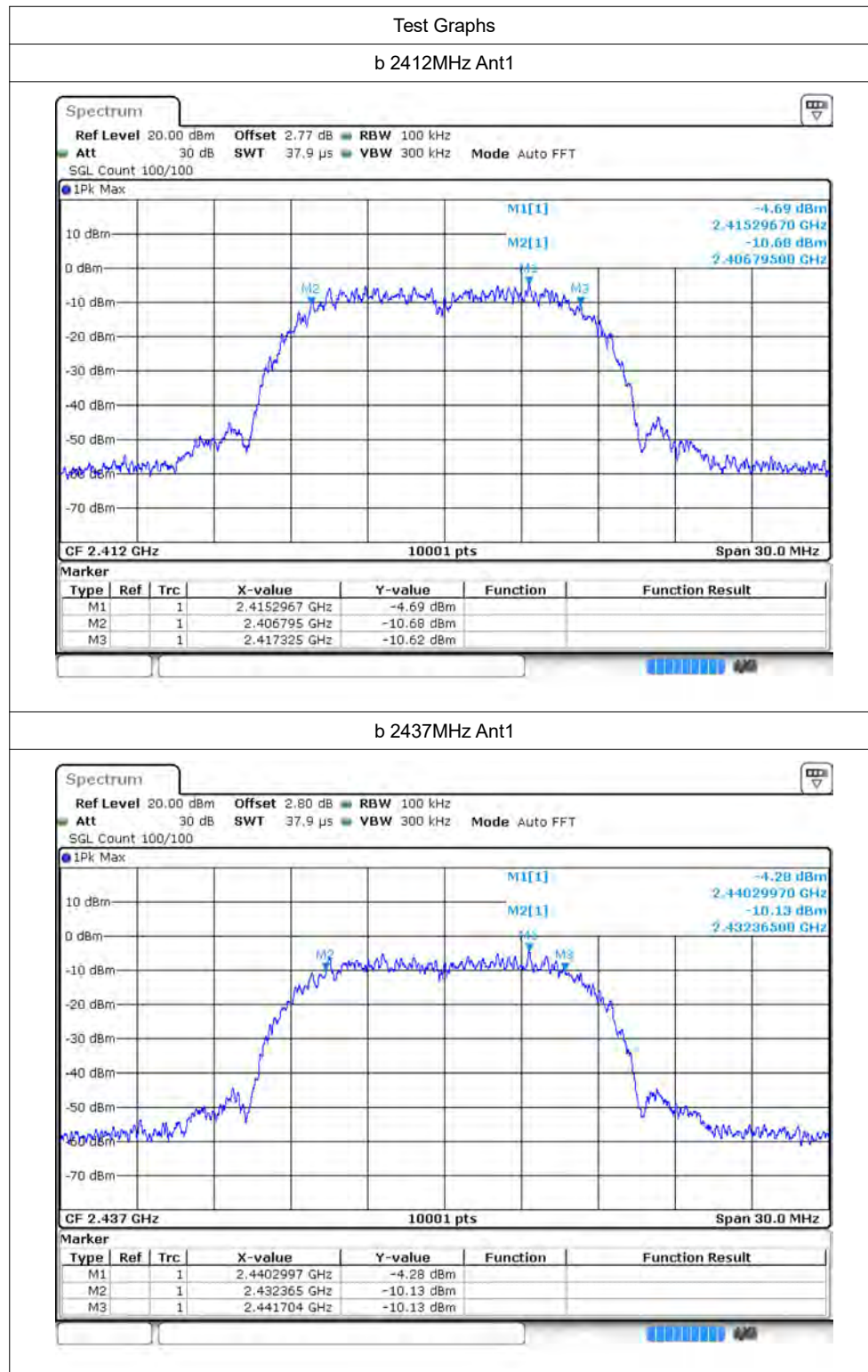


3 -6dB Bandwidth

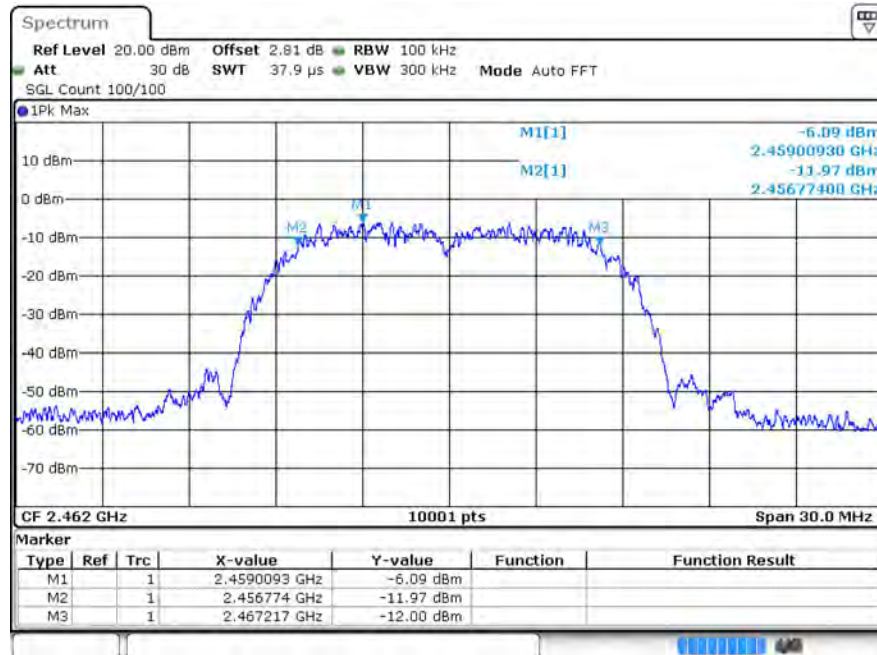
3.1 Test Result

Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
b	2412	Ant1	10.53	0.5	Pass
b	2437	Ant1	9.339	0.5	Pass
b	2462	Ant1	10.443	0.5	Pass
g	2412	Ant1	16.386	0.5	Pass
g	2437	Ant1	16.47	0.5	Pass
g	2462	Ant1	16.341	0.5	Pass
n20	2412	Ant1	17.337	0.5	Pass
n20	2437	Ant1	17.712	0.5	Pass
n20	2462	Ant1	17.589	0.5	Pass

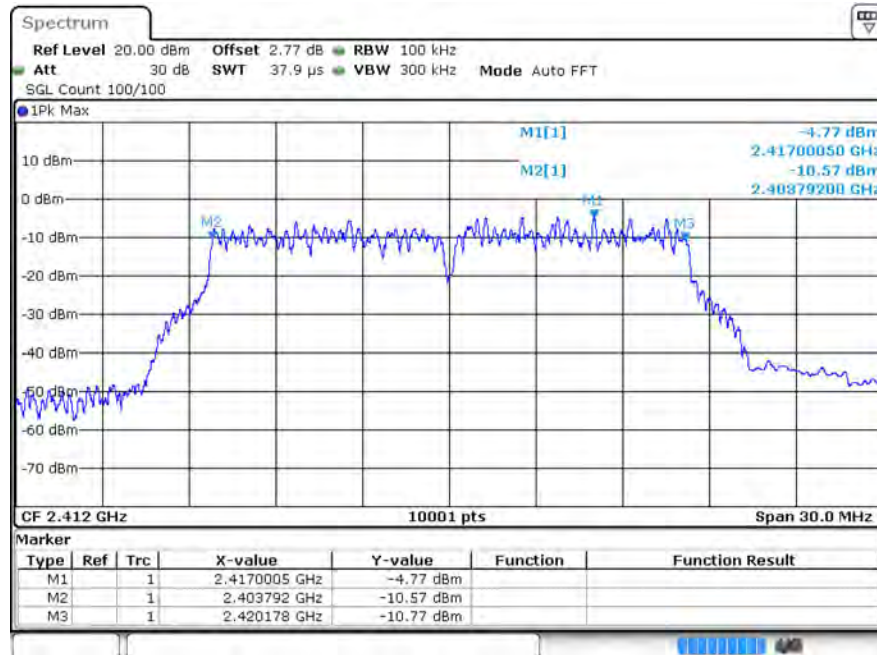
3.2 Test Graphs



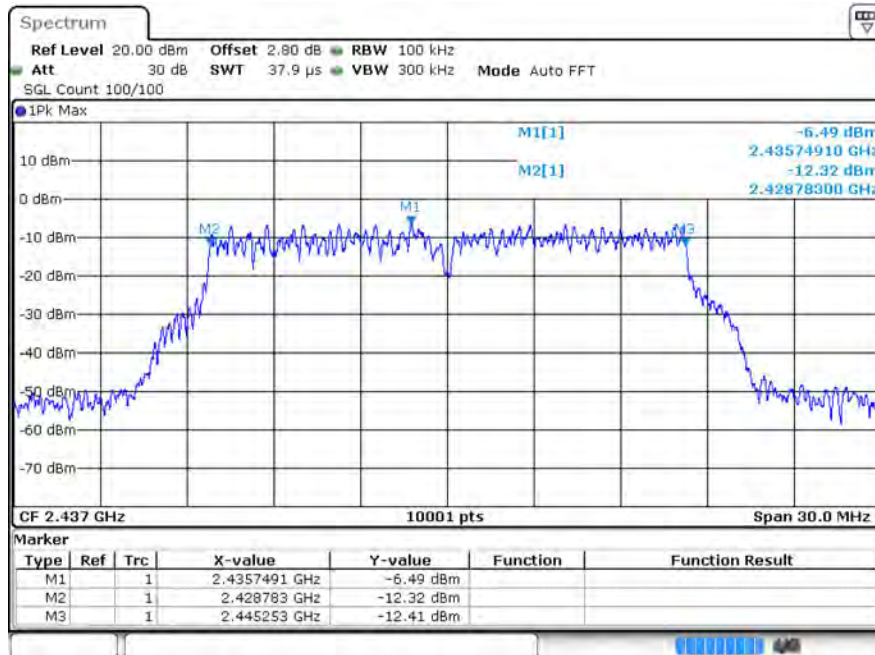
b 2462MHz Ant1



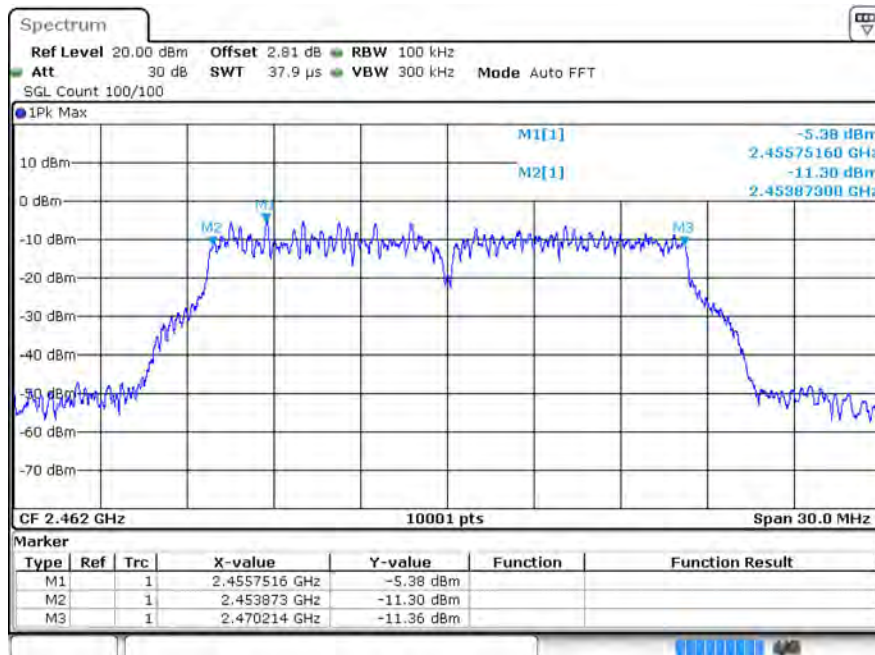
g 2412MHz Ant1



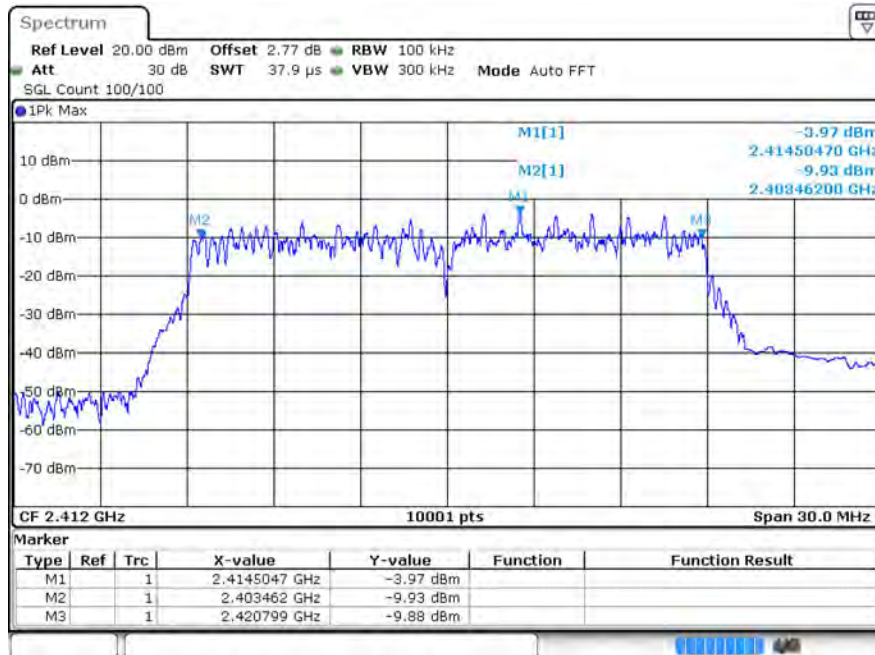
g 2437MHz Ant1



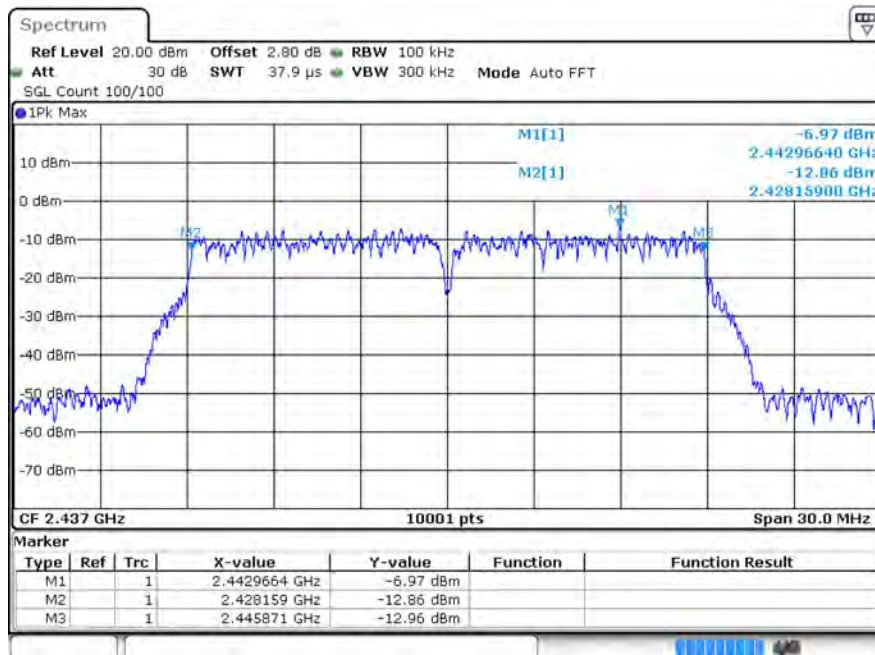
g 2462MHz Ant1

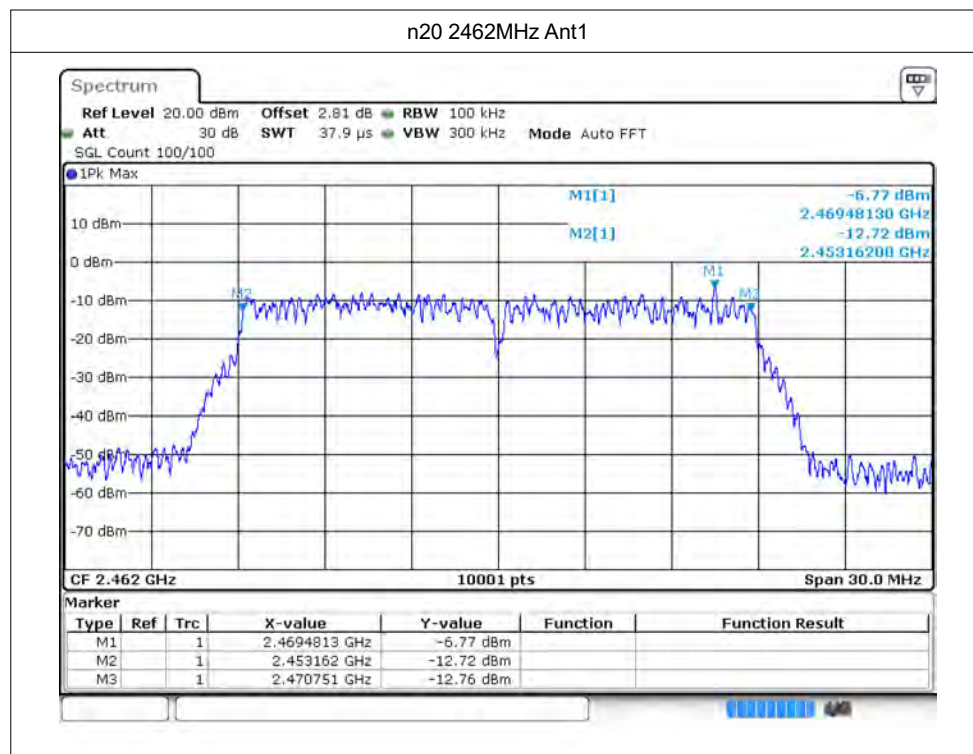


n20 2412MHz Ant1



n20 2437MHz Ant1



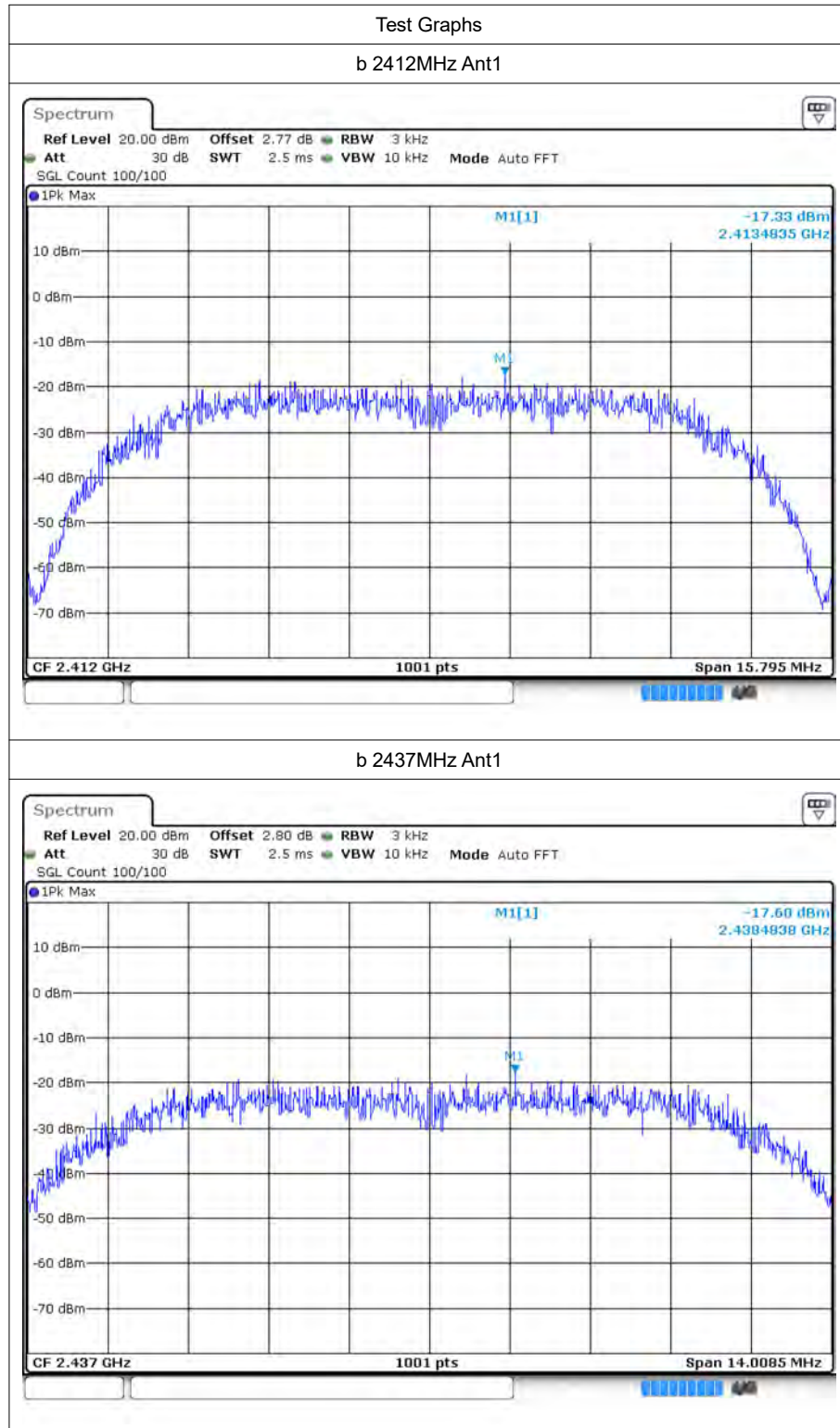


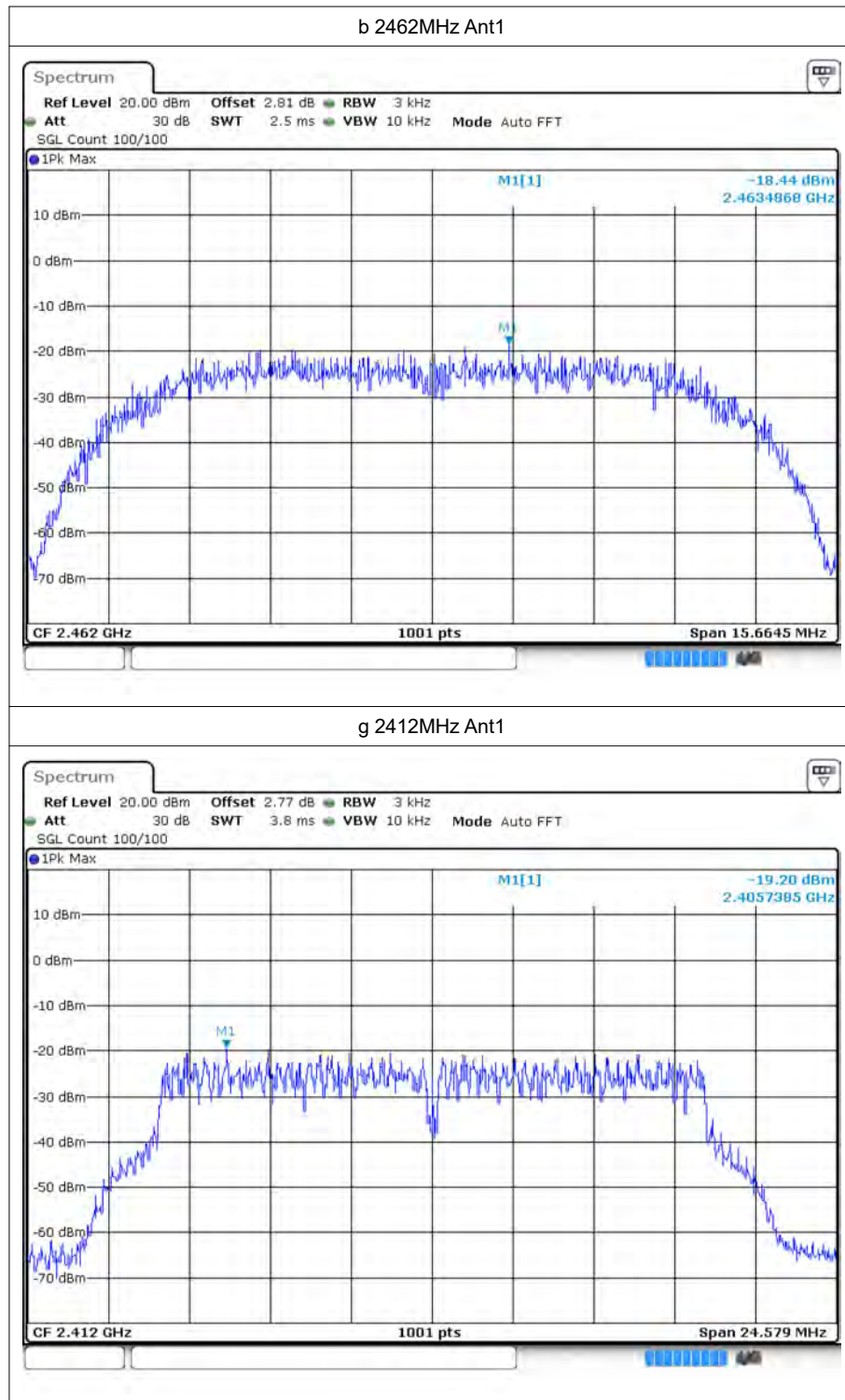
4 Maximum Power Spectral Density Level

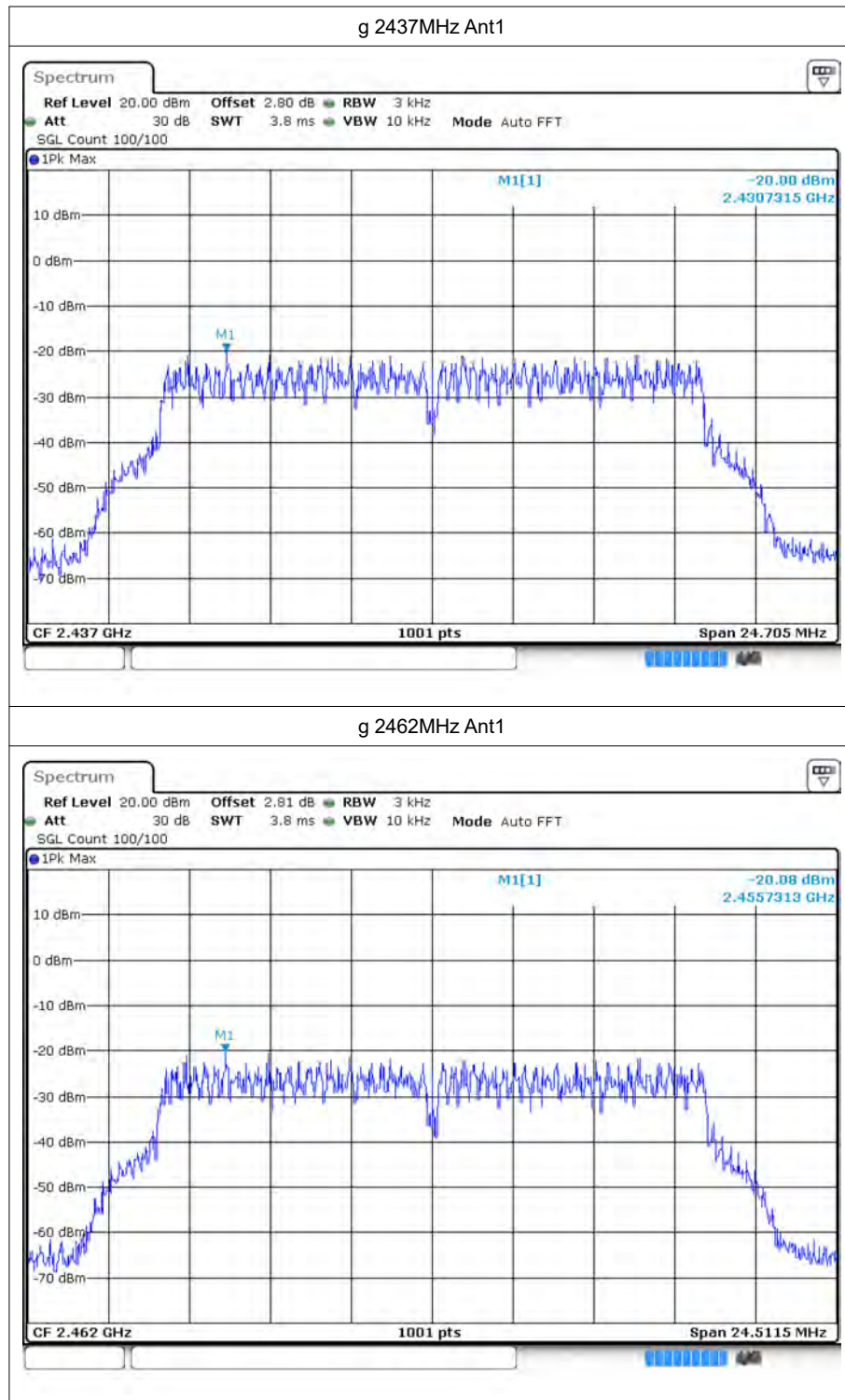
4.1 Test Result

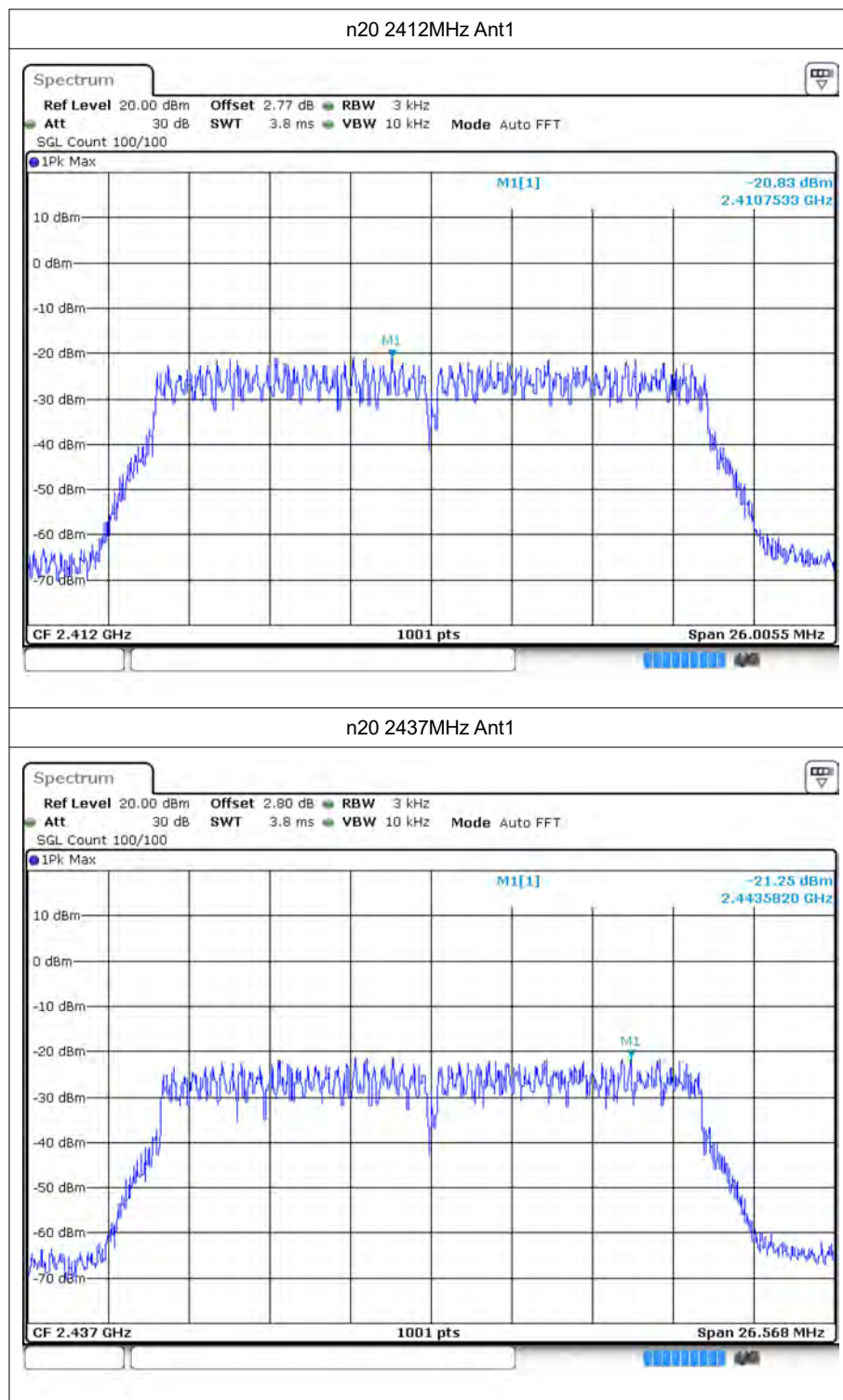
Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3-100kHz)	Limit (dBm/3kHz)	Verdict
b	2412	Ant1	-17.33	≤ 8	Pass
b	2437	Ant1	-17.6	≤ 8	Pass
b	2462	Ant1	-18.44	≤ 8	Pass
g	2412	Ant1	-19.2	≤ 8	Pass
g	2437	Ant1	-20	≤ 8	Pass
g	2462	Ant1	-20.08	≤ 8	Pass
n20	2412	Ant1	-20.83	≤ 8	Pass
n20	2437	Ant1	-21.25	≤ 8	Pass
n20	2462	Ant1	-21.84	≤ 8	Pass

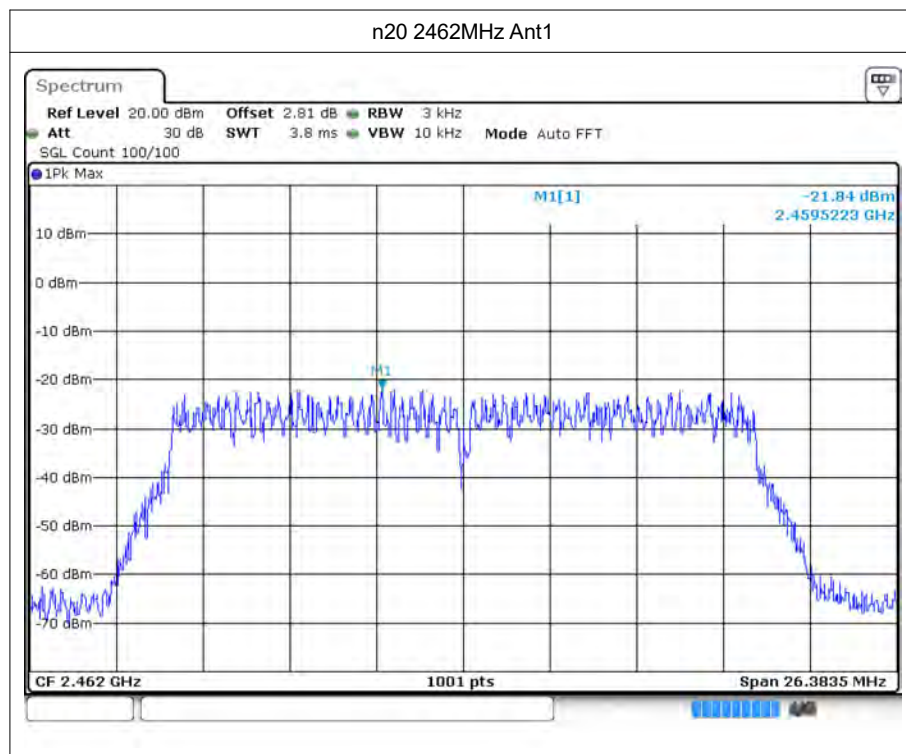
4.2 Test Graphs











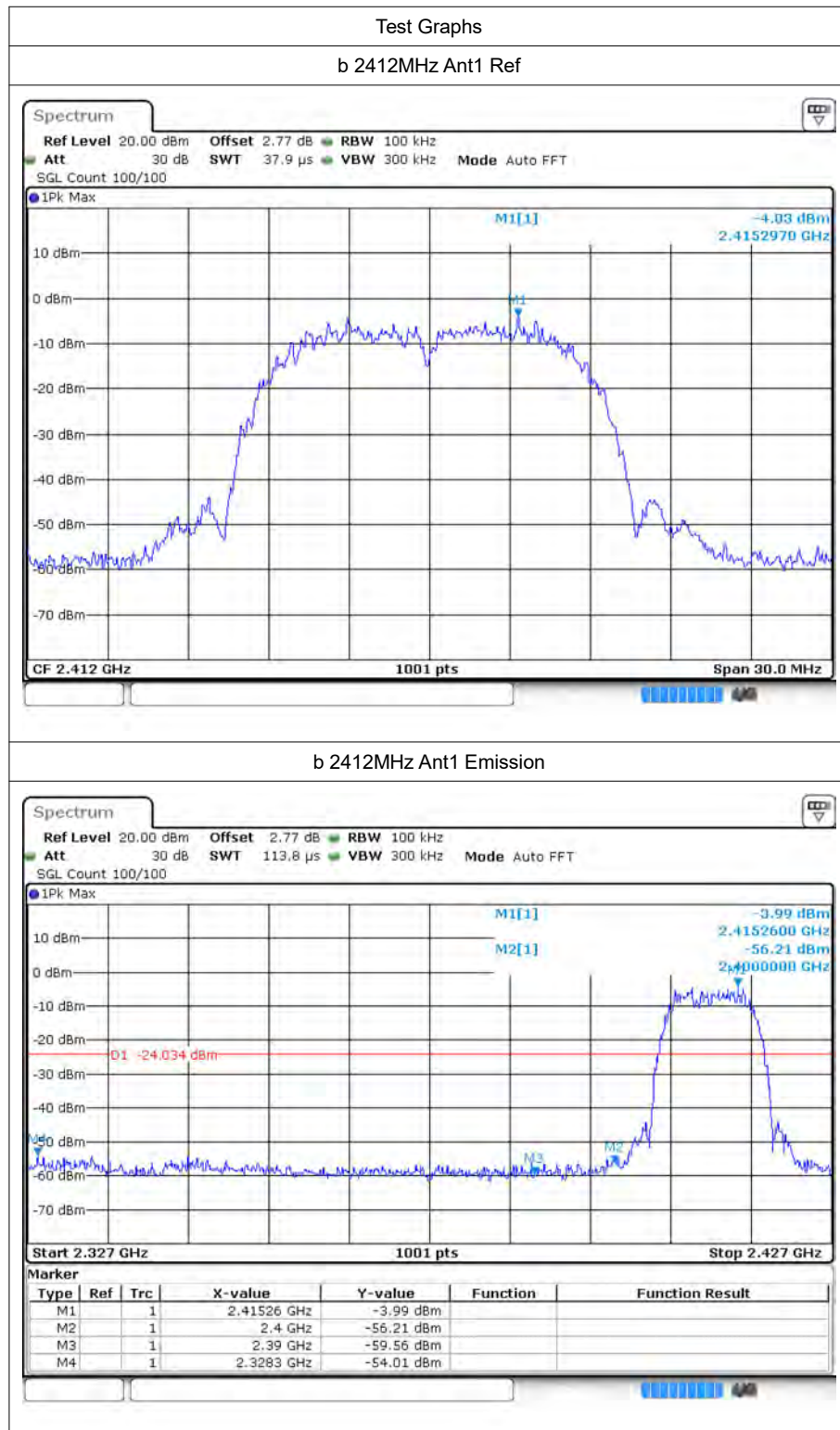


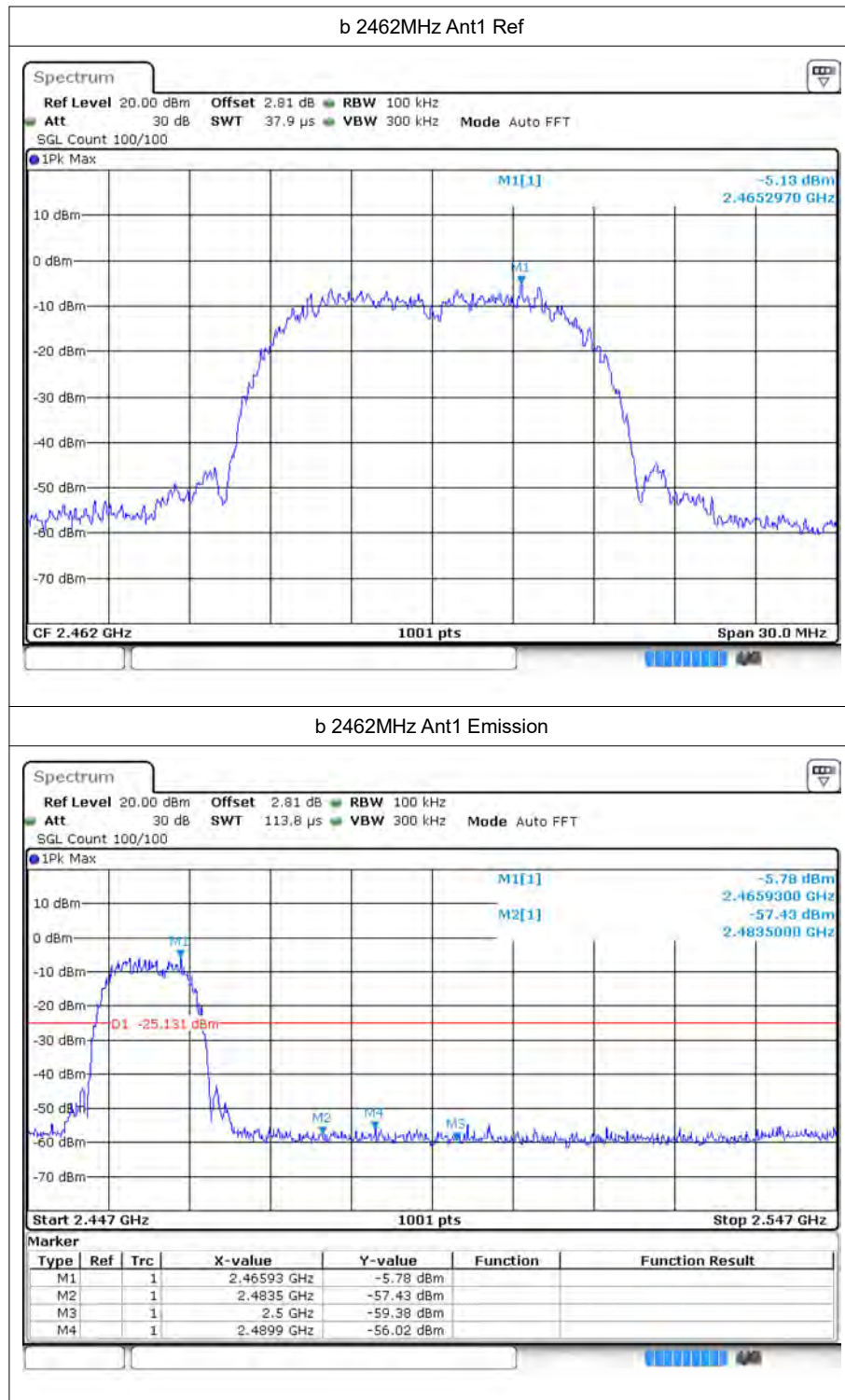
5 Band Edge

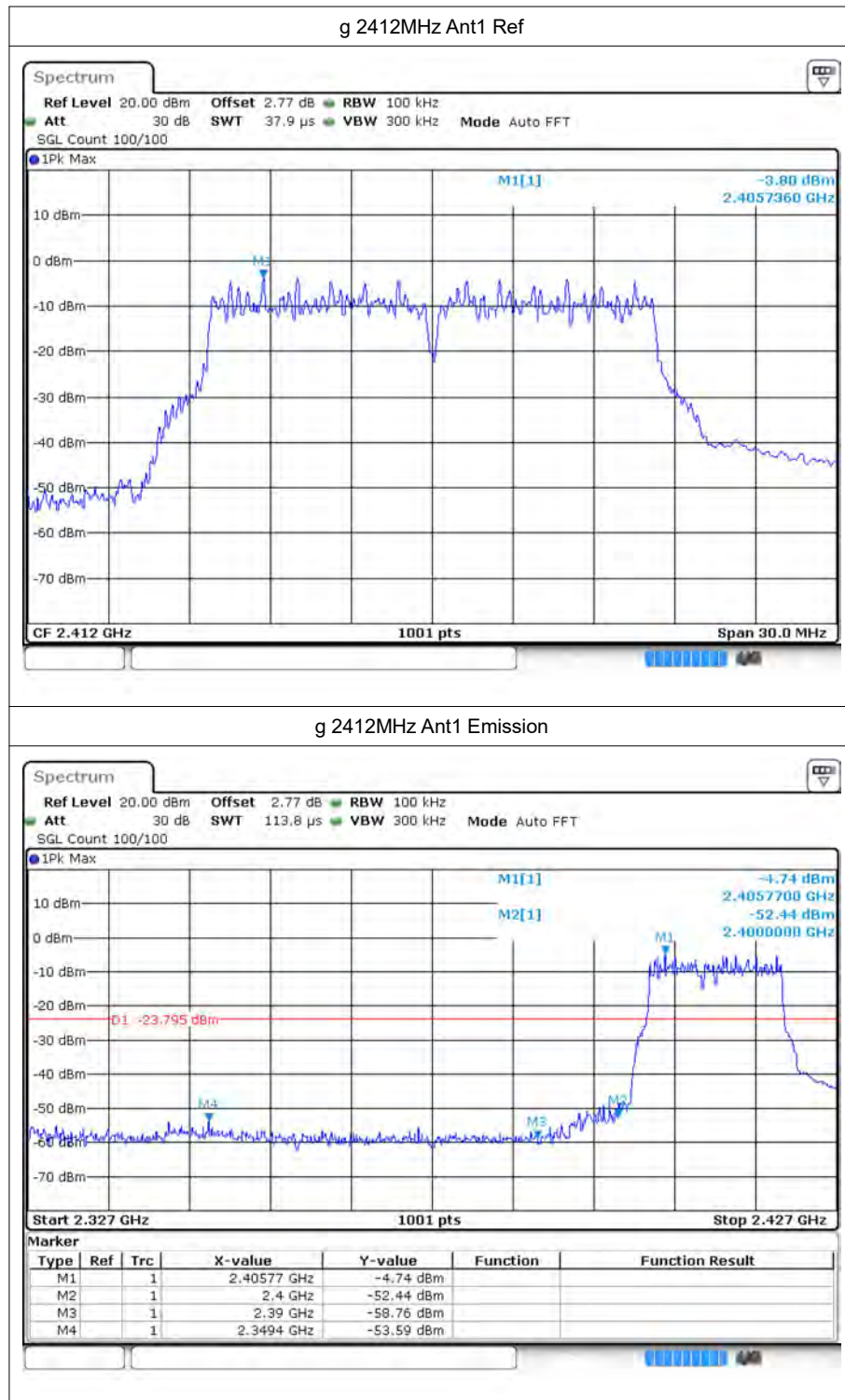
5.1 Test Result

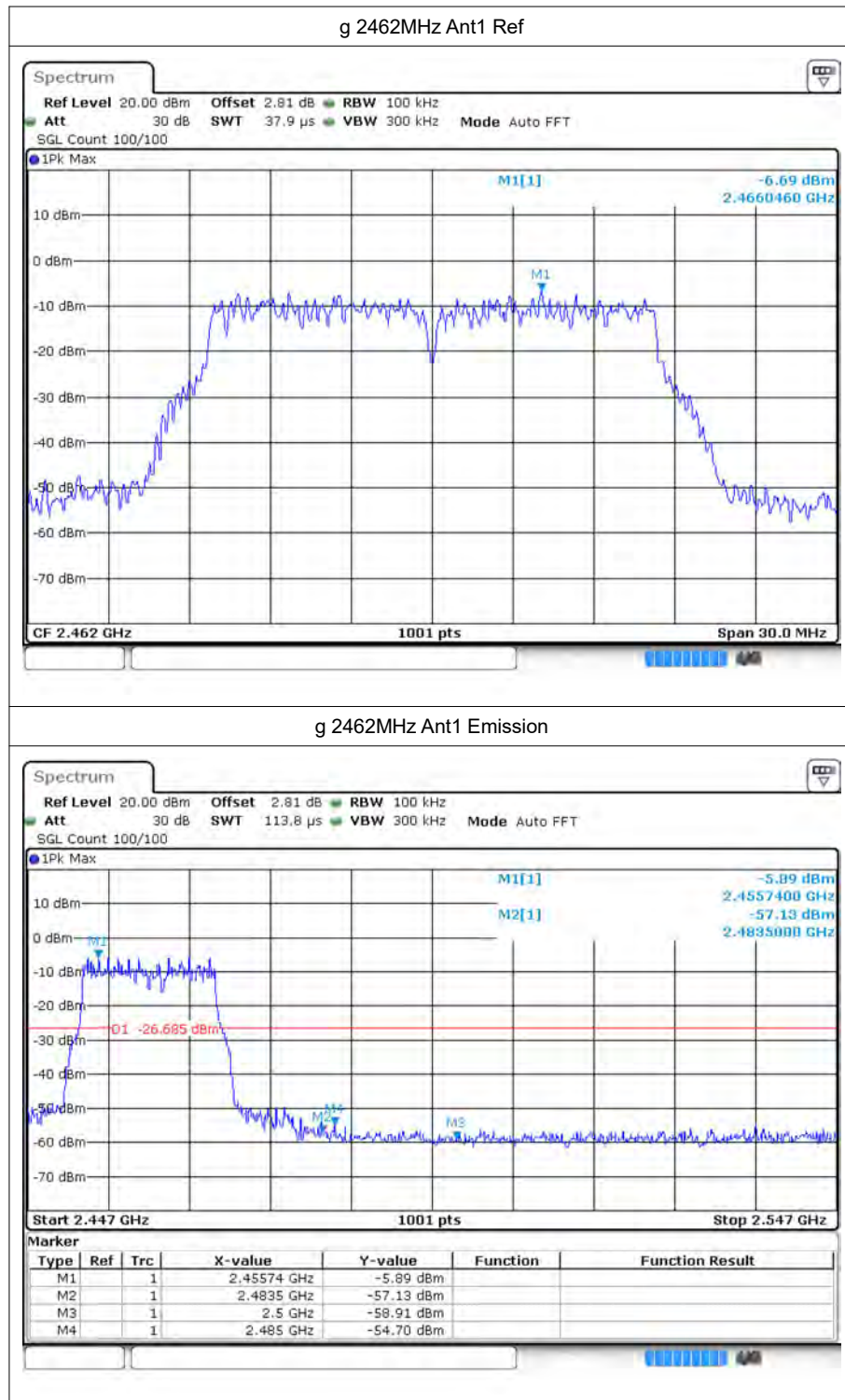
Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
b	2412	Ant1	-49.97	-20	Pass
b	2462	Ant1	-50.88	-20	Pass
g	2412	Ant1	-49.79	-20	Pass
g	2462	Ant1	-48.01	-20	Pass
n20	2412	Ant1	-47.89	-20	Pass
n20	2462	Ant1	-46.32	-20	Pass

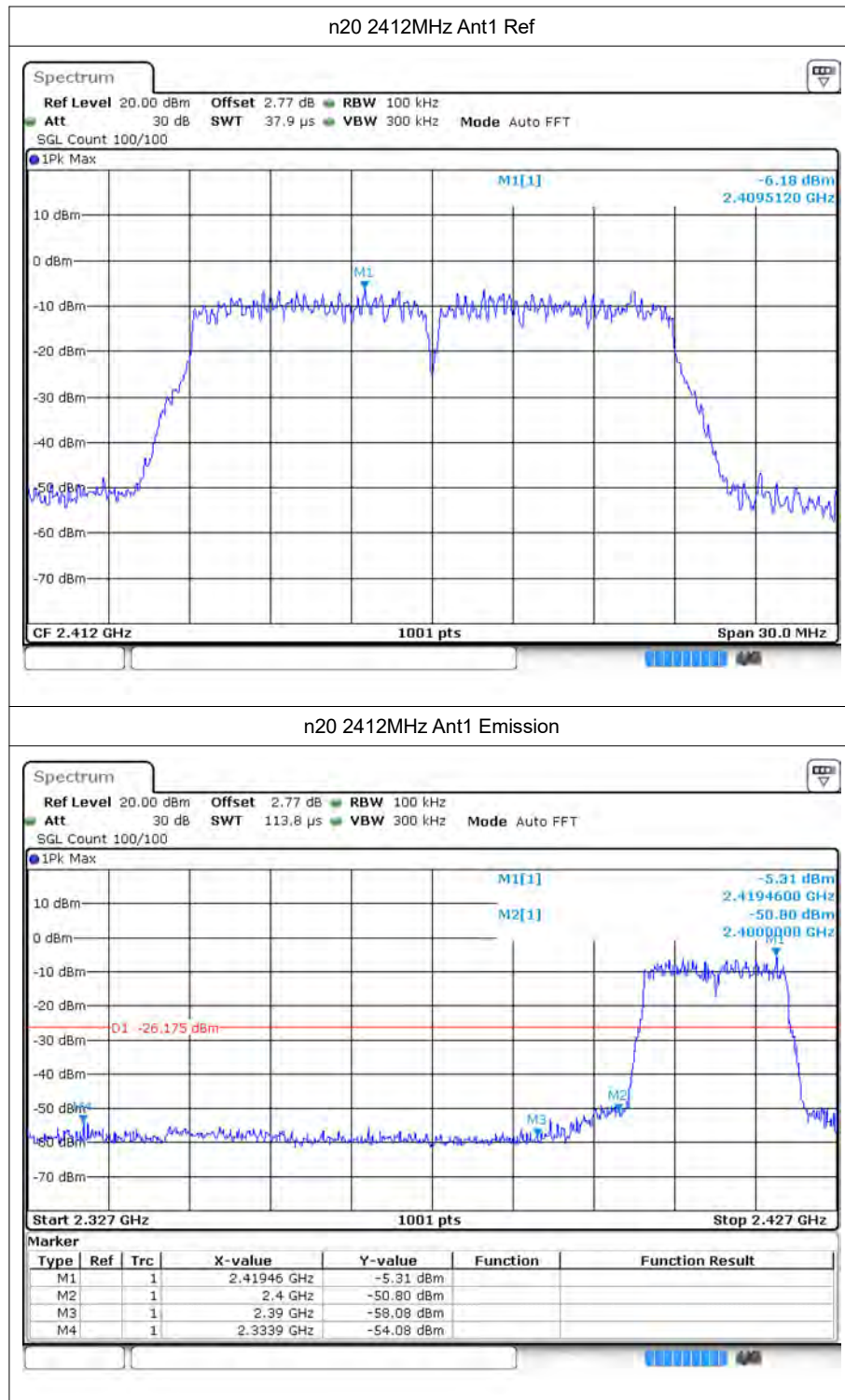
5.2 Test Graphs

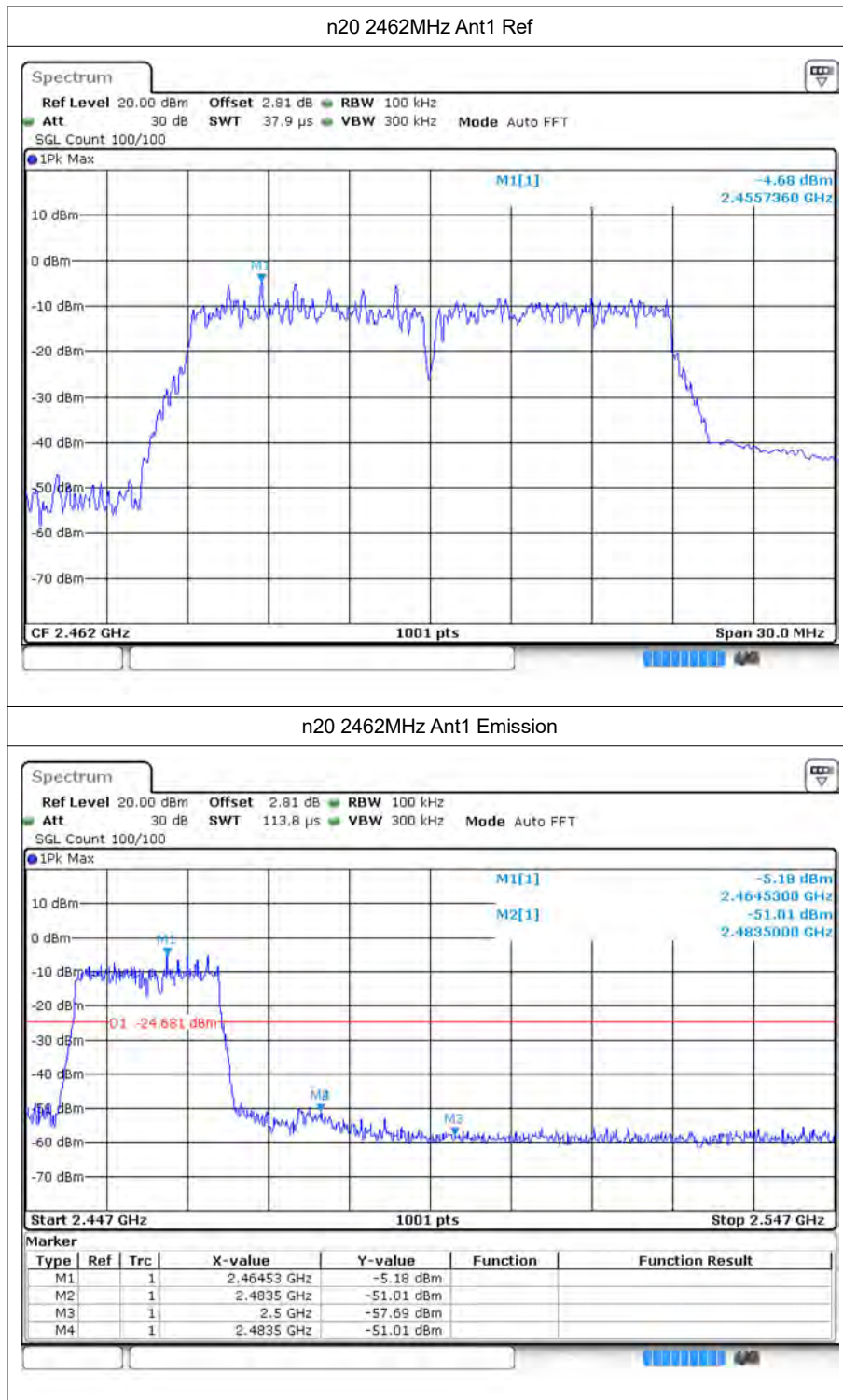












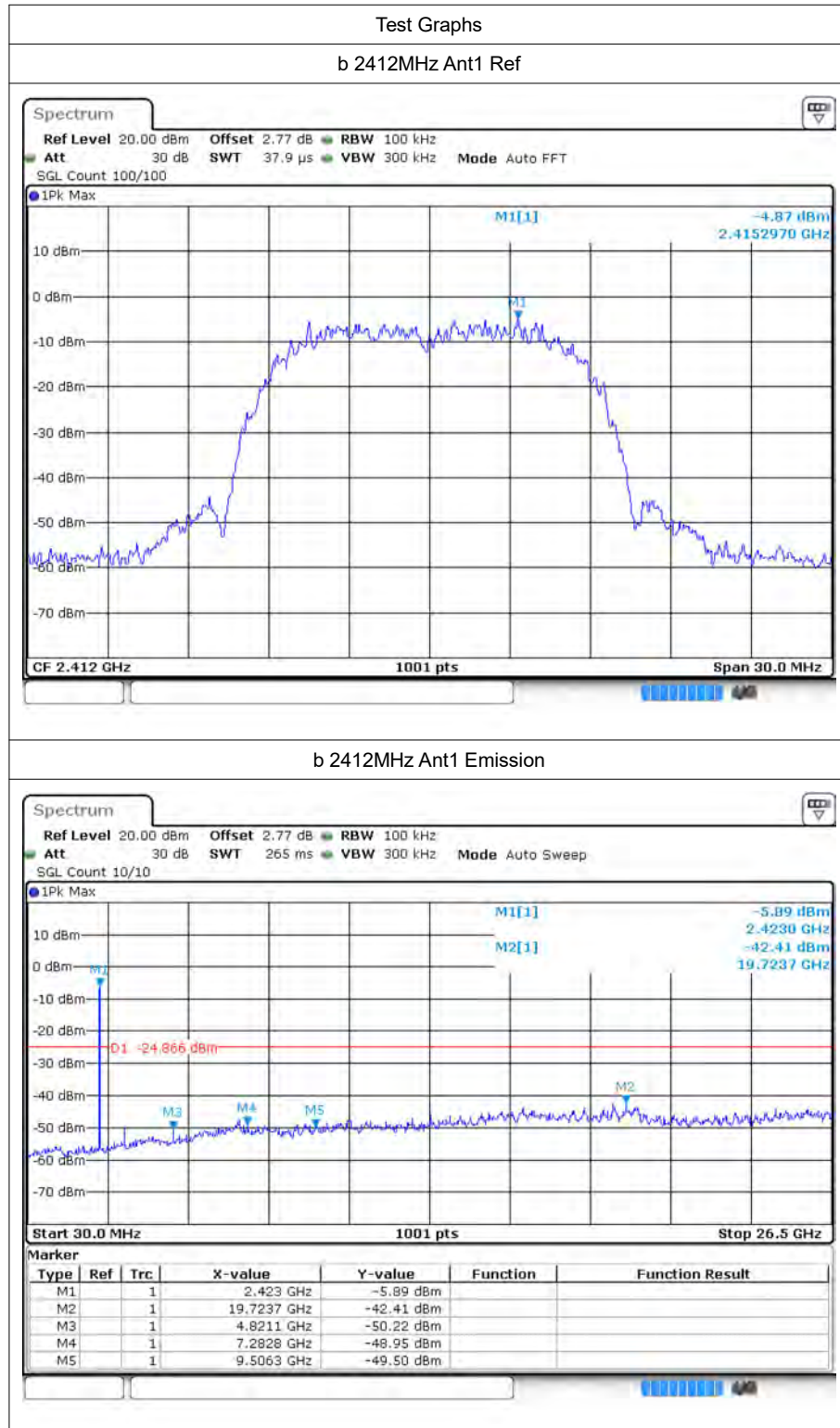


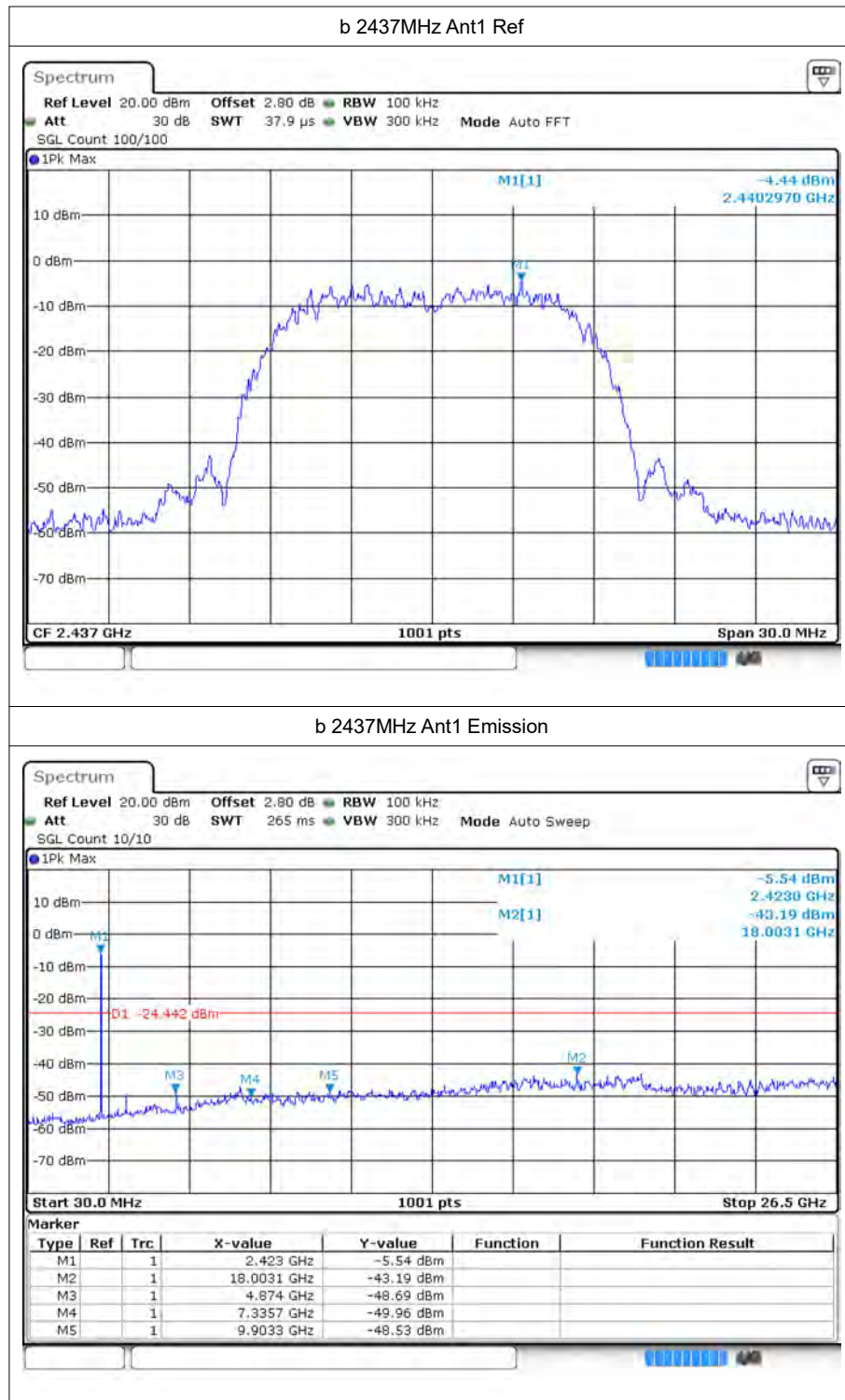
6 Conducted RF Spurious Emission

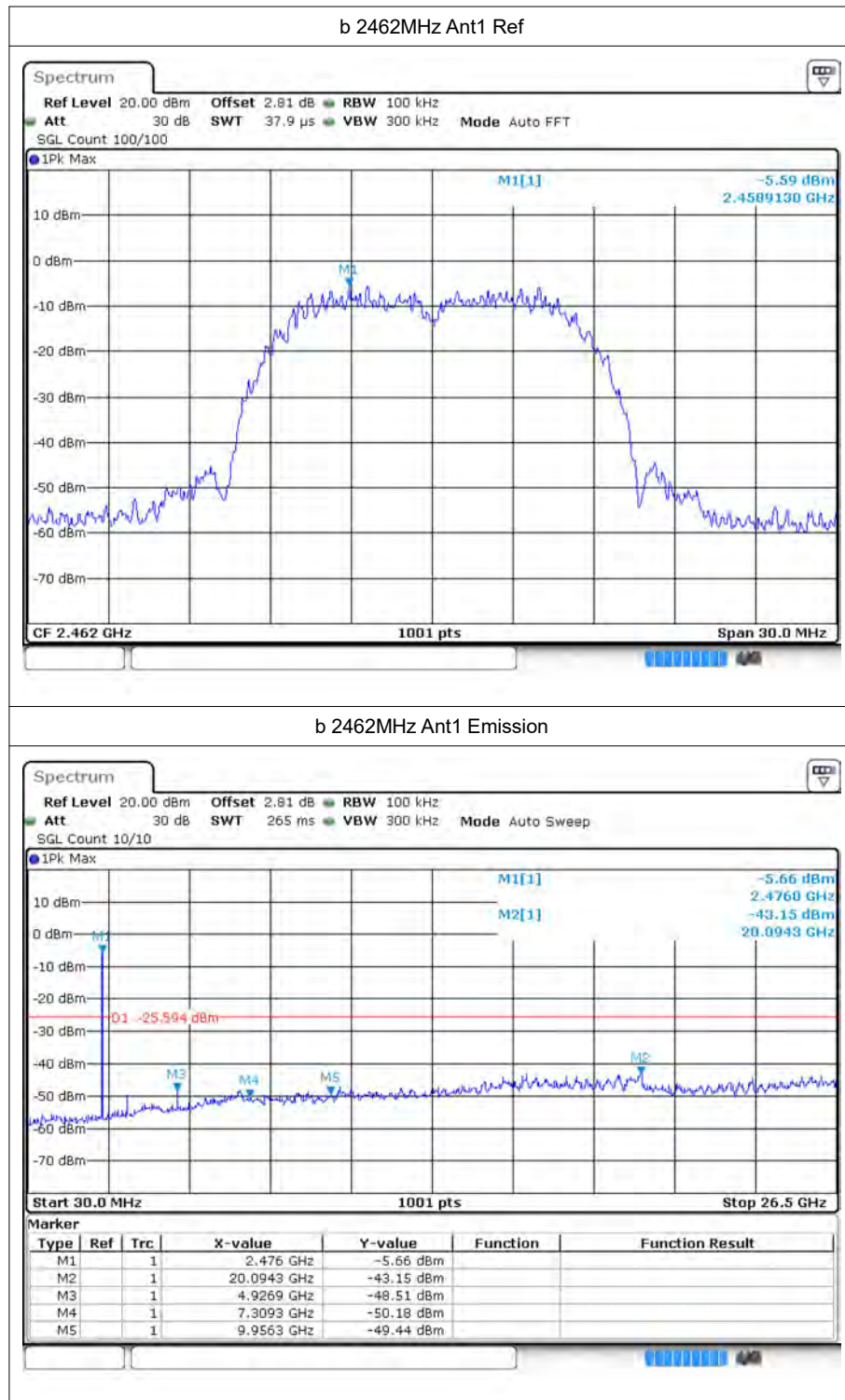
6.1 Test Result

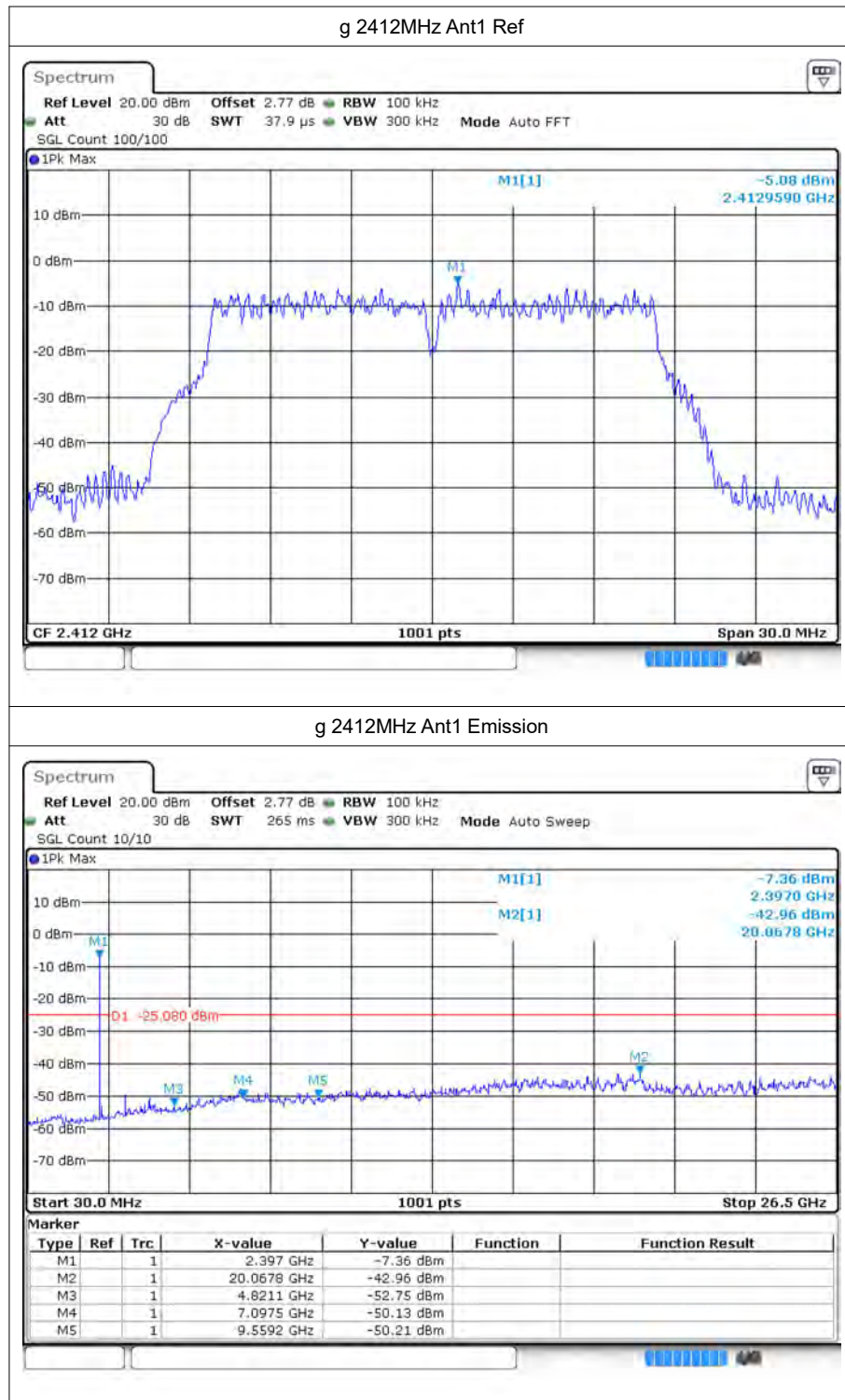
Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
b	2412	Ant1	-37.54	-20	Pass
b	2437	Ant1	-38.74	-20	Pass
b	2462	Ant1	-37.55	-20	Pass
g	2412	Ant1	-37.87	-20	Pass
g	2437	Ant1	-37.71	-20	Pass
g	2462	Ant1	-36.47	-20	Pass
n20	2412	Ant1	-37	-20	Pass
n20	2437	Ant1	-37.51	-20	Pass
n20	2462	Ant1	-35.96	-20	Pass

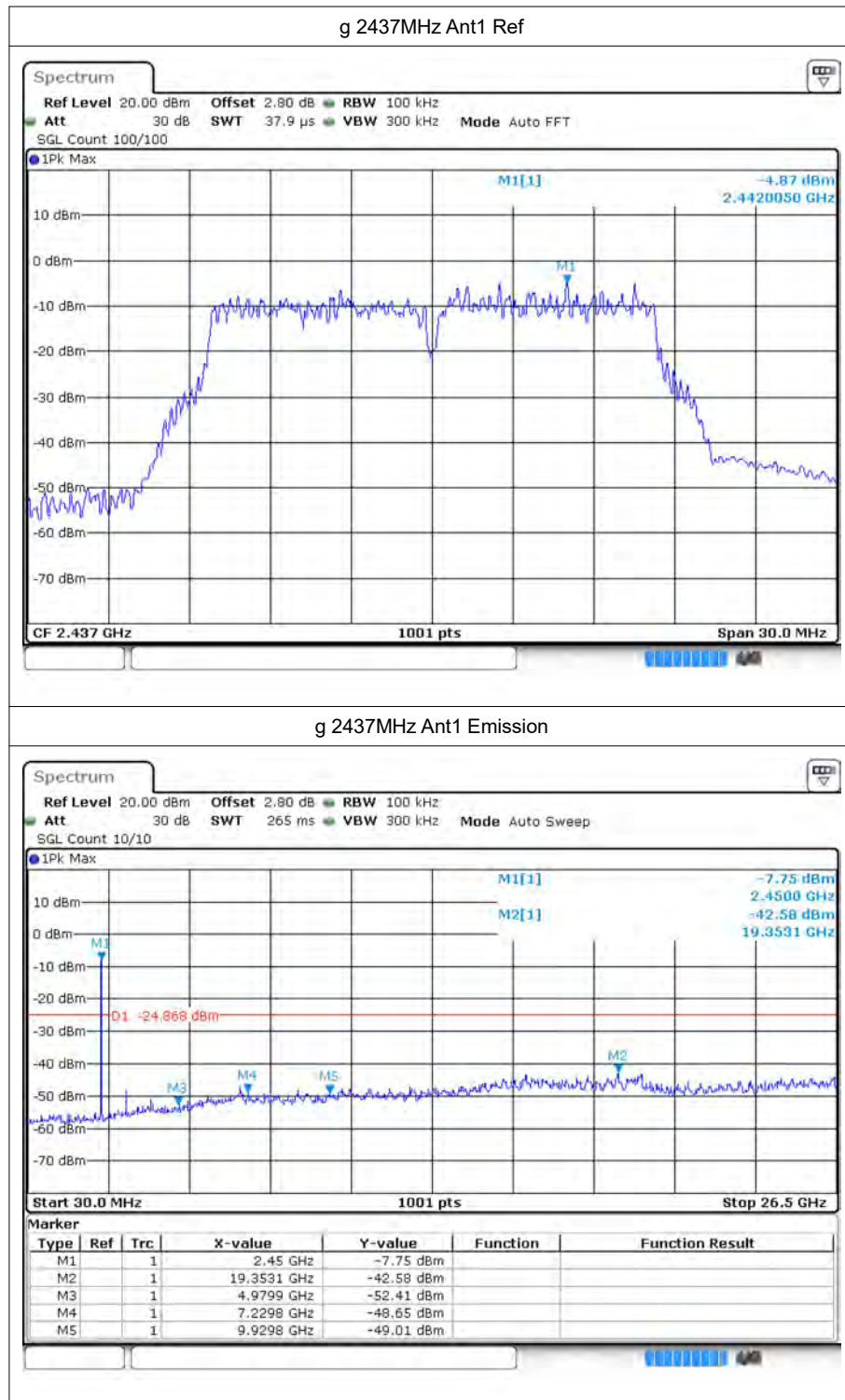
6.2 Test Graphs

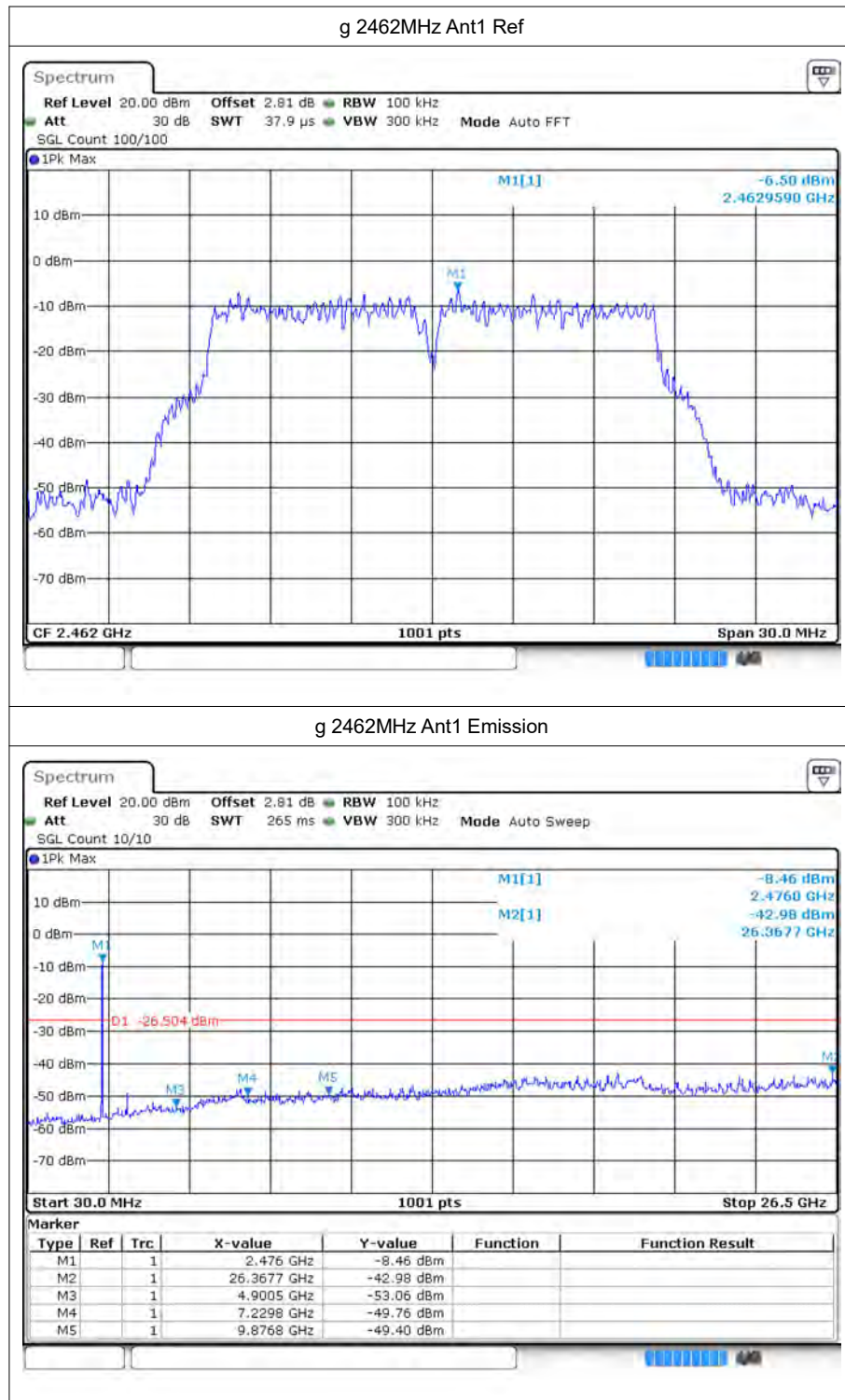


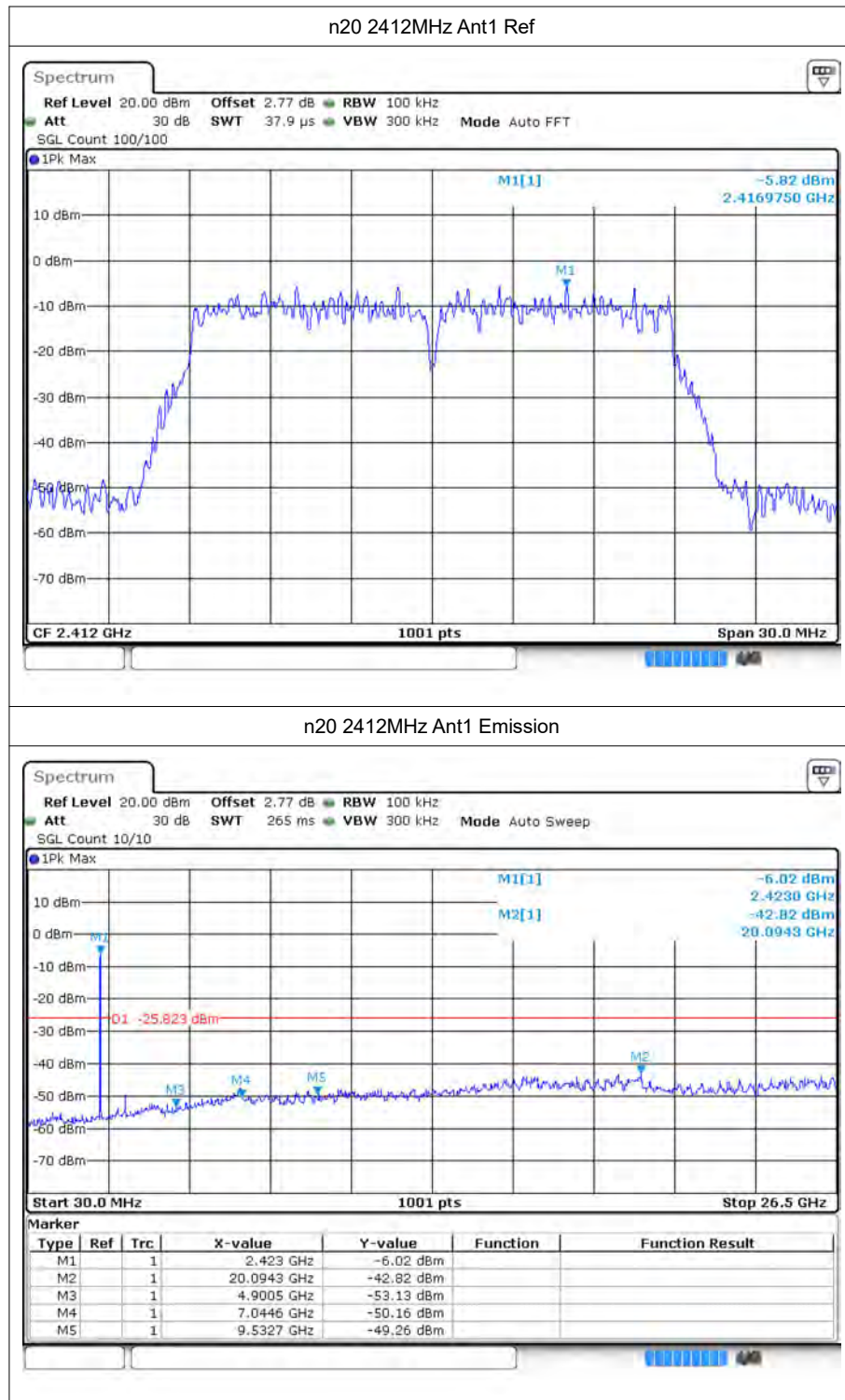


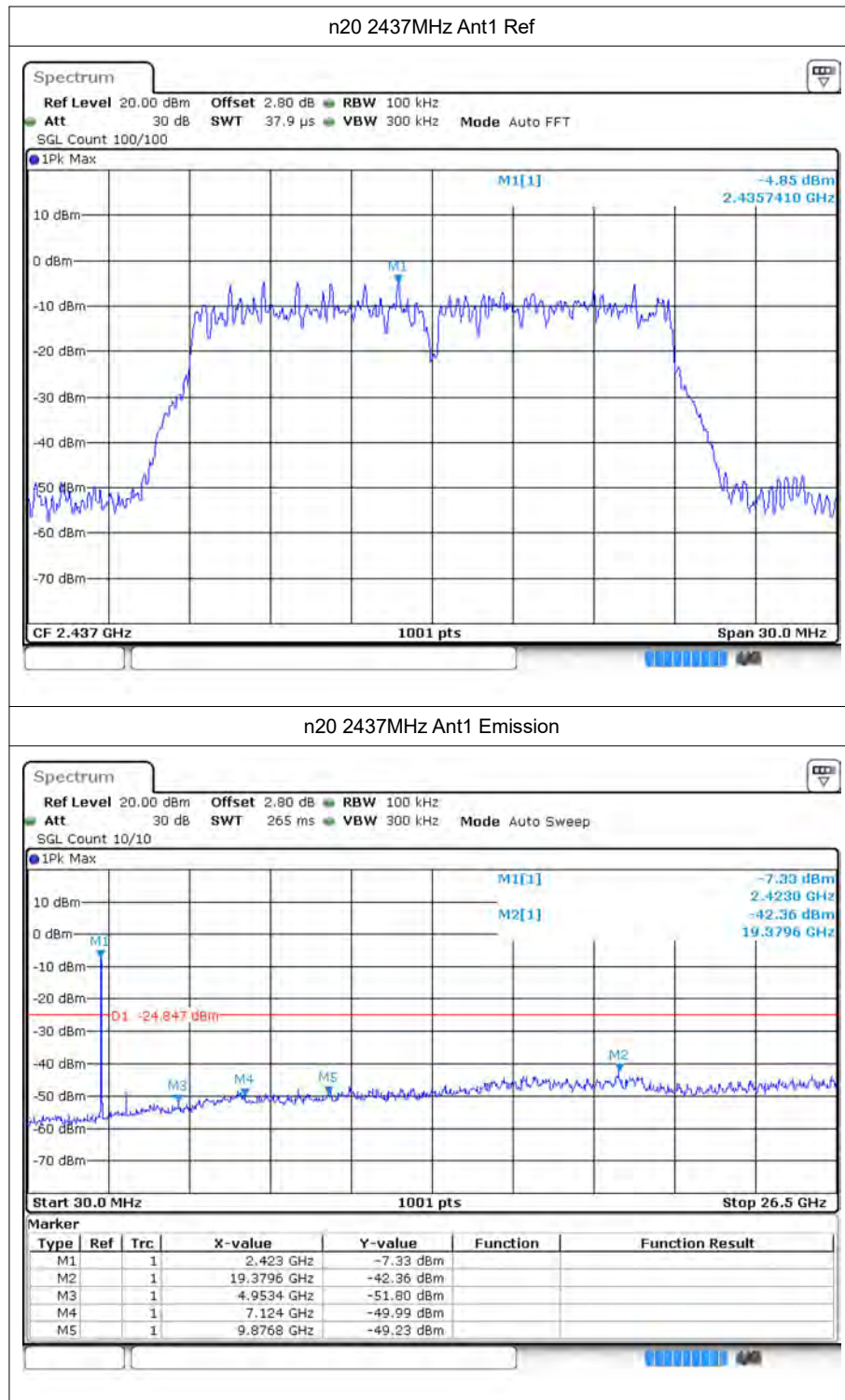


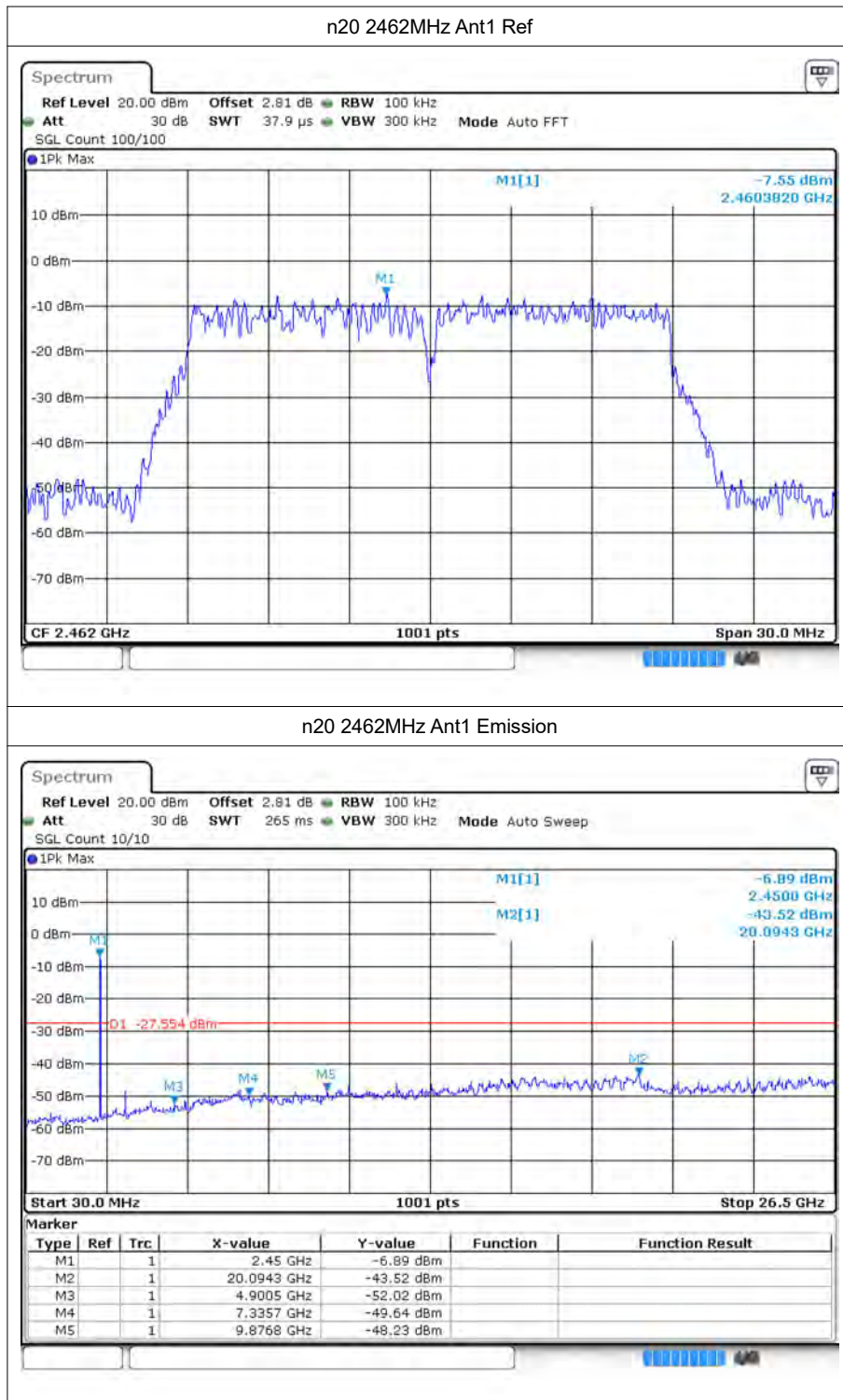














7 Restrict Band

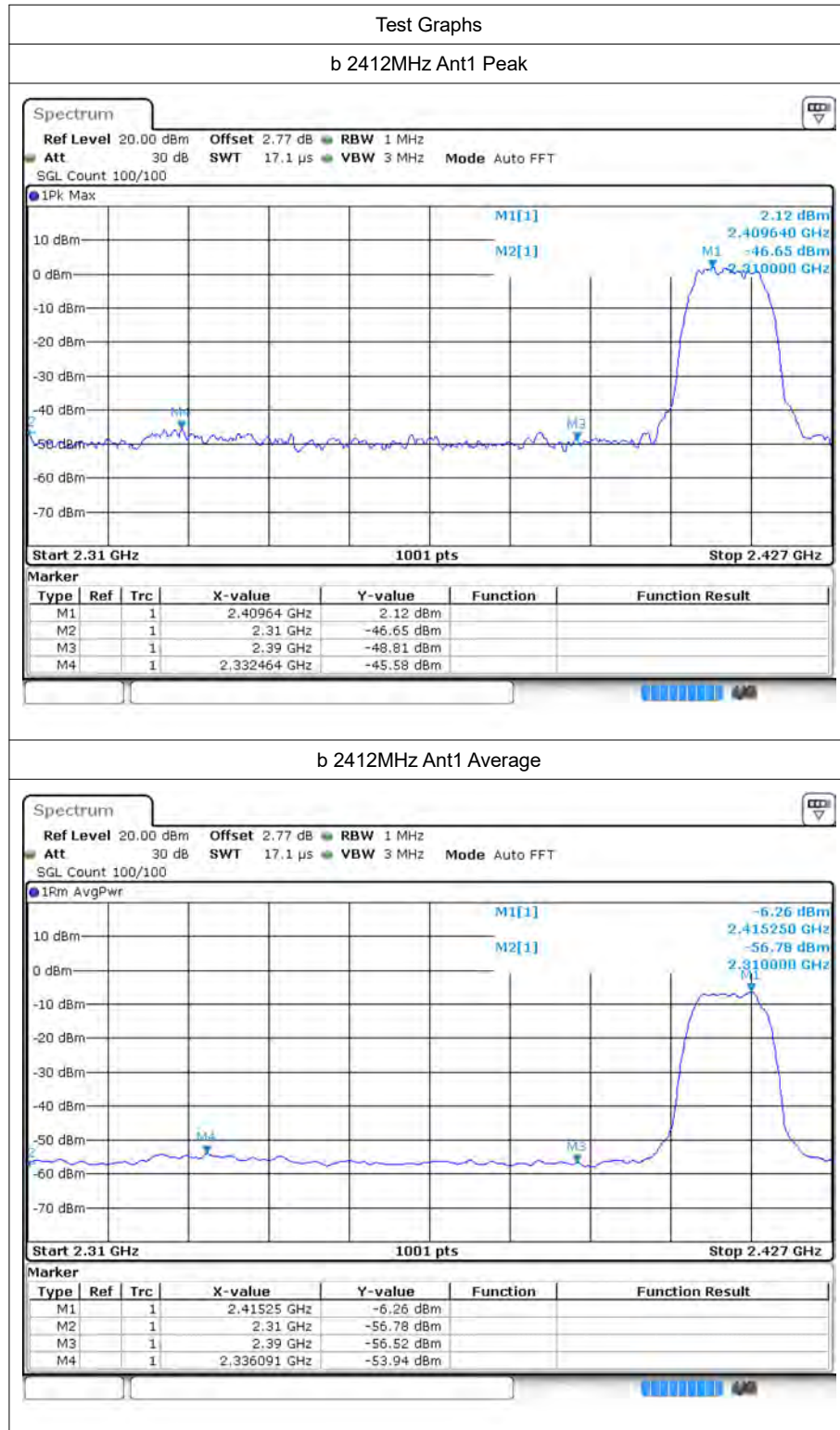
7.1 Test Result

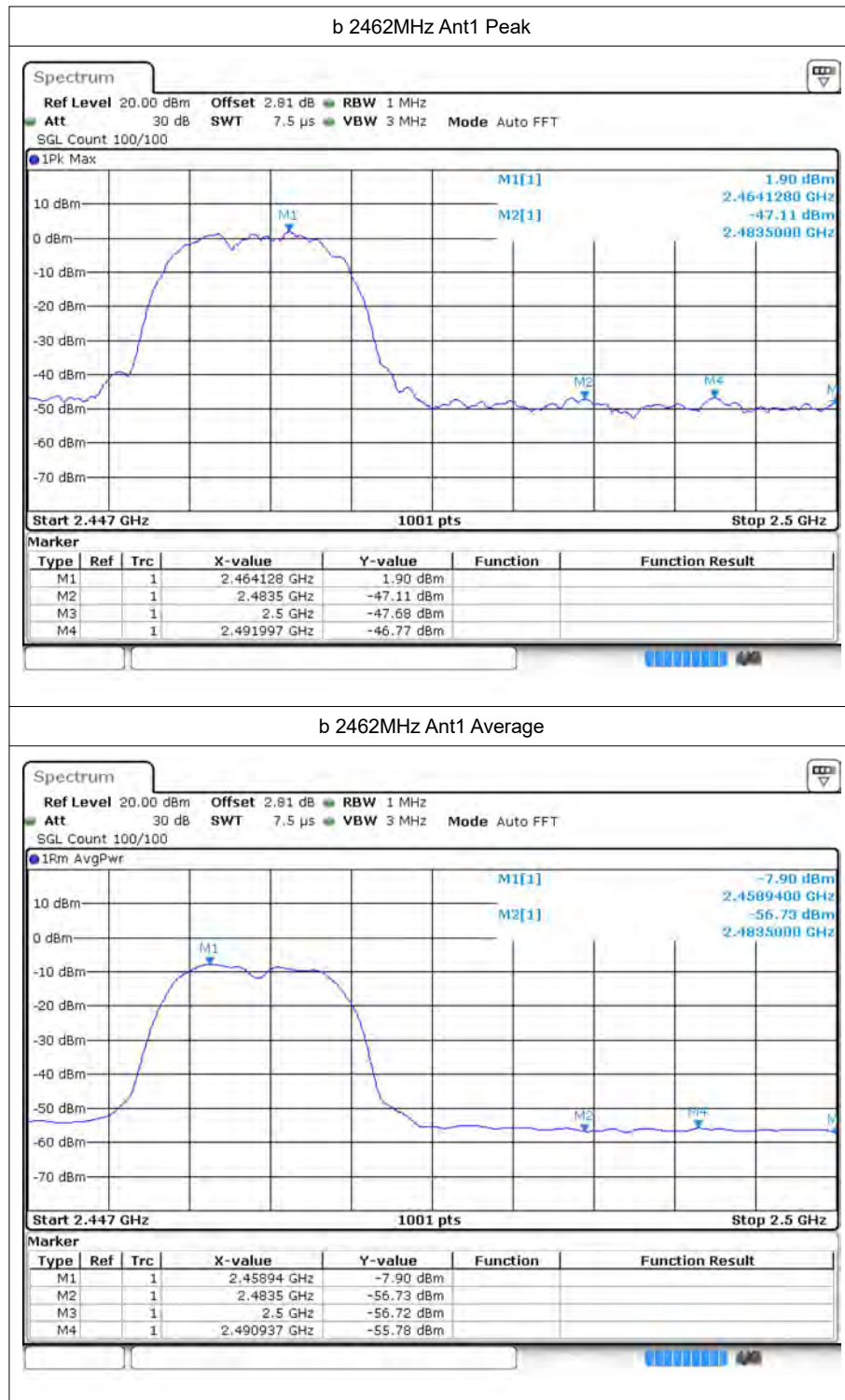
Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
b	2412	Ant1	2310	-46.65	2	-	50.61	Peak	74	Pass
b	2412	Ant1	2310	-56.78	2	2.81	43.29	Average	54	Pass
b	2412	Ant1	2332.464	-45.58	2	-	51.68	Peak	74	Pass
b	2412	Ant1	2336.091	-53.93	2	2.81	46.14	Average	54	Pass
b	2412	Ant1	2390	-48.81	2	-	48.45	Peak	74	Pass
b	2412	Ant1	2390	-56.52	2	2.81	43.55	Average	54	Pass
b	2462	Ant1	2483.5	-47.11	2	-	50.15	Peak	74	Pass
b	2462	Ant1	2483.5	-56.73	2	2.99	43.52	Average	54	Pass
b	2462	Ant1	2491.997	-46.76	2	-	50.5	Peak	74	Pass
b	2462	Ant1	2490.937	-55.78	2	2.99	44.47	Average	54	Pass
b	2462	Ant1	2500	-47.68	2	-	49.58	Peak	74	Pass
b	2462	Ant1	2500	-56.72	2	2.99	43.53	Average	54	Pass
g	2412	Ant1	2310	-49.31	2	-	47.95	Peak	74	Pass
g	2412	Ant1	2310	-56.95	2	8.18	48.49	Average	54	Pass
g	2412	Ant1	2337.612	-45.47	2	-	51.79	Peak	74	Pass
g	2412	Ant1	2339.133	-54.59	2	8.18	50.85	Average	54	Pass
g	2412	Ant1	2390	-49.12	2	-	48.45	Peak	74	Pass
g	2412	Ant1	2390	-56.8	2	8.18	48.64	Average	54	Pass
g	2462	Ant1	2483.5	-48.02	2	-	49.24	Peak	74	Pass
g	2462	Ant1	2483.5	-56.58	2	10.52	51.2	Average	54	Pass
g	2462	Ant1	2491.997	-47.38	2	-	49.88	Peak	74	Pass
g	2462	Ant1	2487.386	-55.47	2	10.52	52.31	Average	54	Pass
g	2462	Ant1	2500	-49.45	2	-	49.58	Peak	74	Pass
g	2462	Ant1	2500	-55.97	2	10.52	51.81	Average	54	Pass
n20	2412	Ant1	2310	-50.4	2	-	46.86	Peak	74	Pass
n20	2412	Ant1	2310	-56.82	2	8.95	49.39	Average	54	Pass
n20	2412	Ant1	2328.837	-46.14	2	-	51.12	Peak	74	Pass
n20	2412	Ant1	2336.559	-53.6	2	8.95	52.61	Average	54	Pass
n20	2412	Ant1	2390	-49.75	2	-	47.51	Peak	74	Pass
n20	2412	Ant1	2390	-55.93	2	8.95	50.28	Average	54	Pass
n20	2462	Ant1	2483.5	-47.52	2	-	49.74	Peak	74	Pass
n20	2462	Ant1	2483.5	-55.95	2	7.47	48.78	Average	54	Pass
n20	2462	Ant1	2484.153	-46.22	2	-	51.04	Peak	74	Pass
n20	2462	Ant1	2490.884	-55.81	2	7.47	48.92	Average	54	Pass

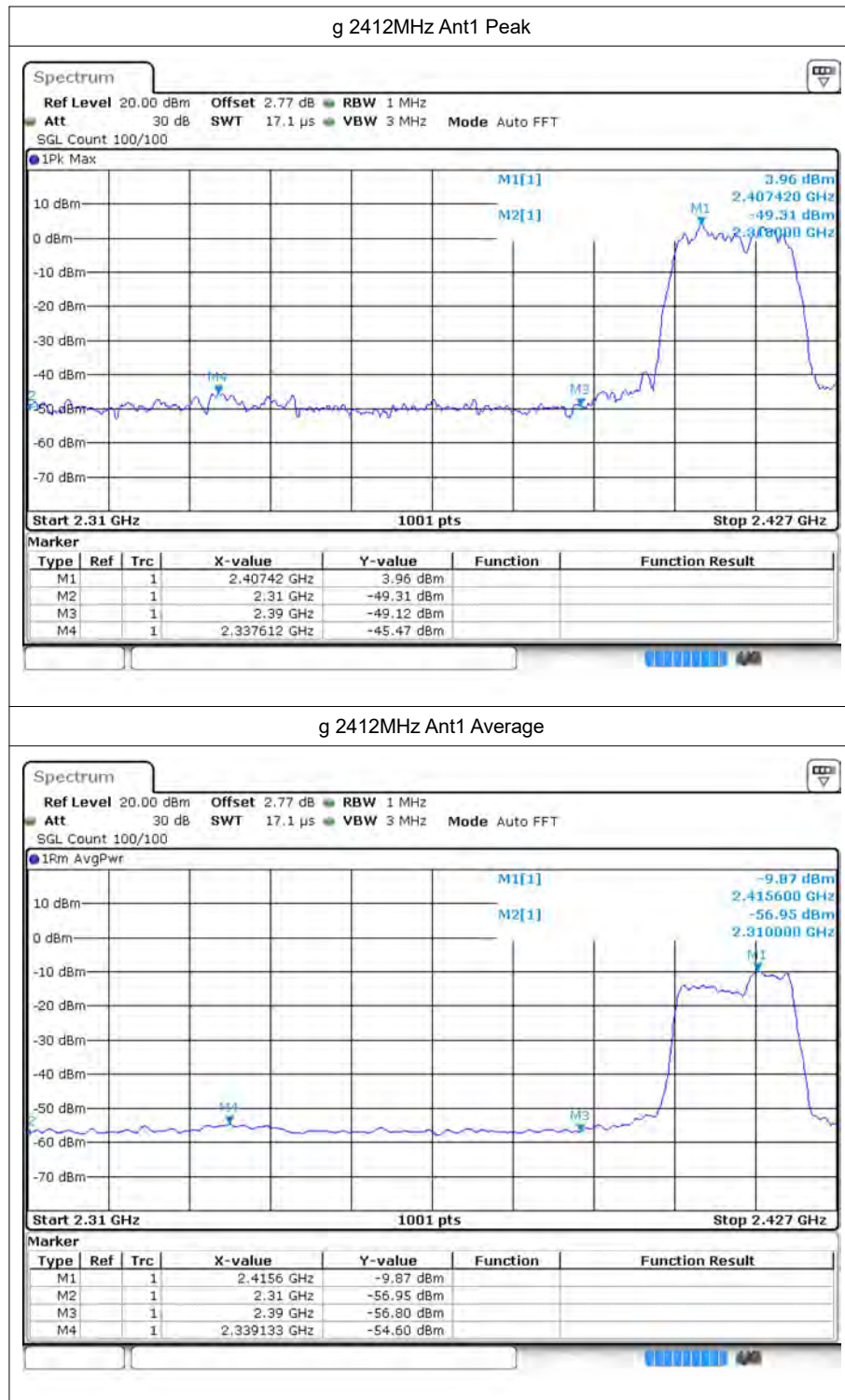


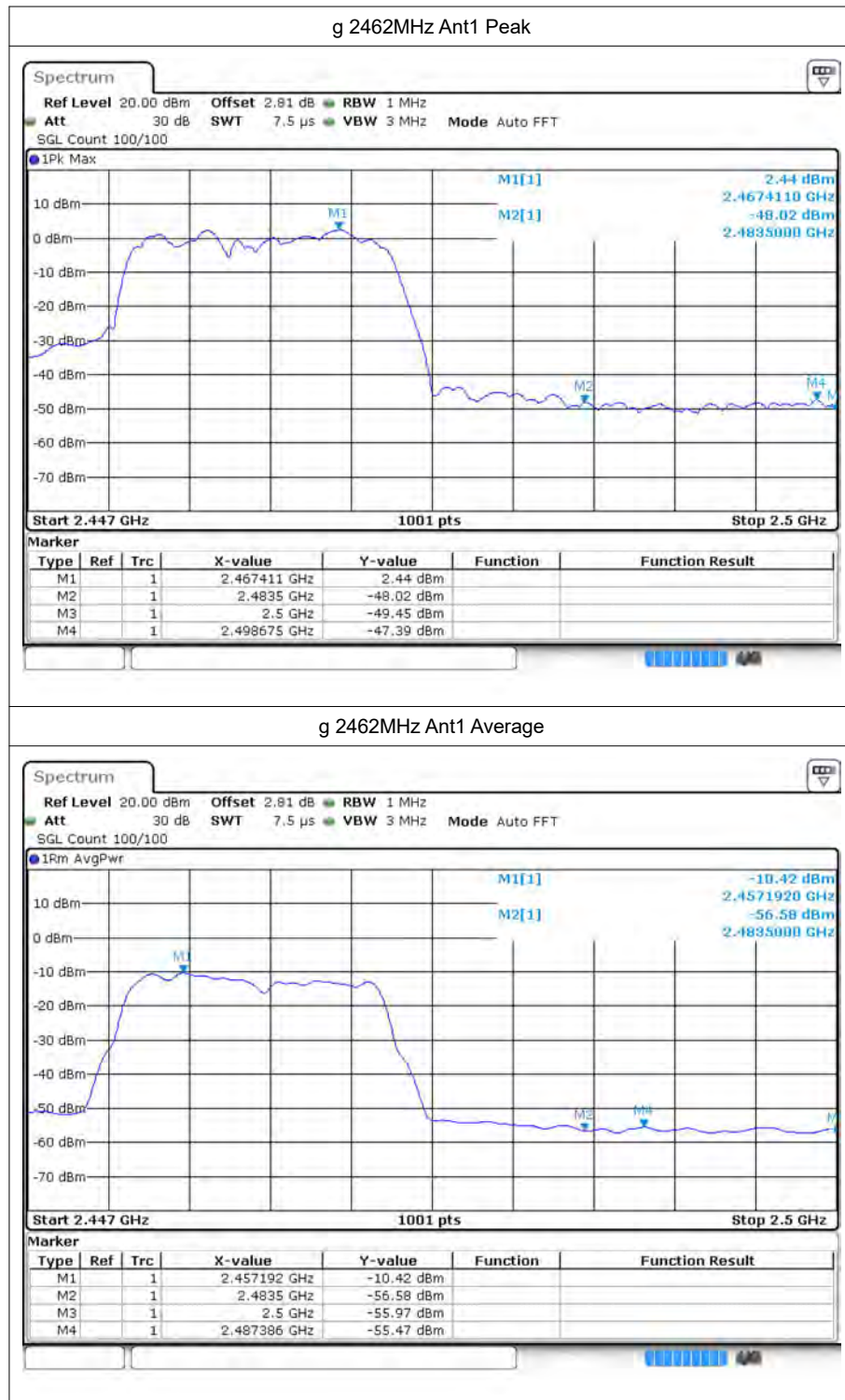
n20	2462	Ant1	2500	-50.54	2	-	46.72	Peak	74	Pass
n20	2462	Ant1	2500	-56.58	2	7.47	48.15	Average	54	Pass

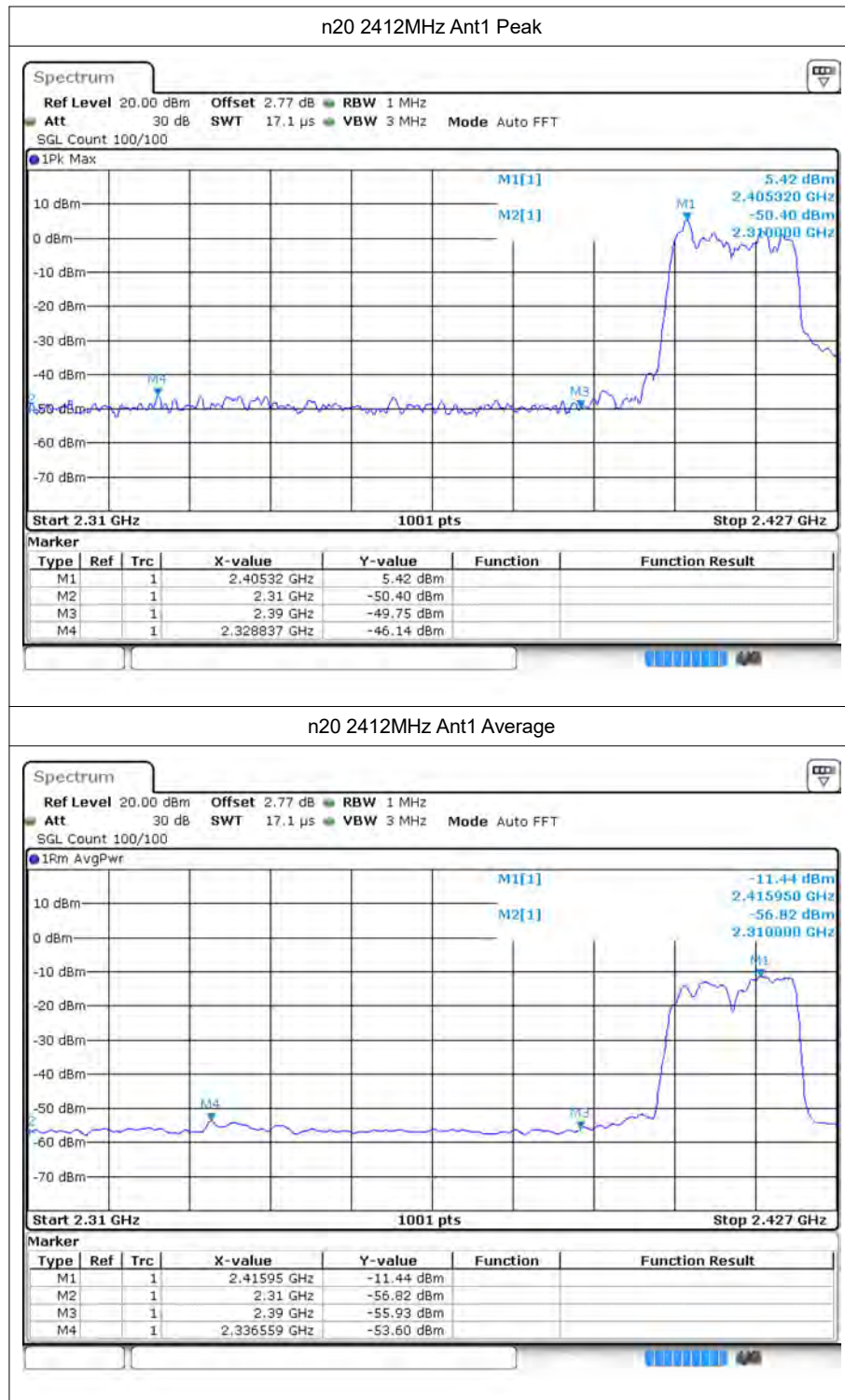
7.2 Test Graphs

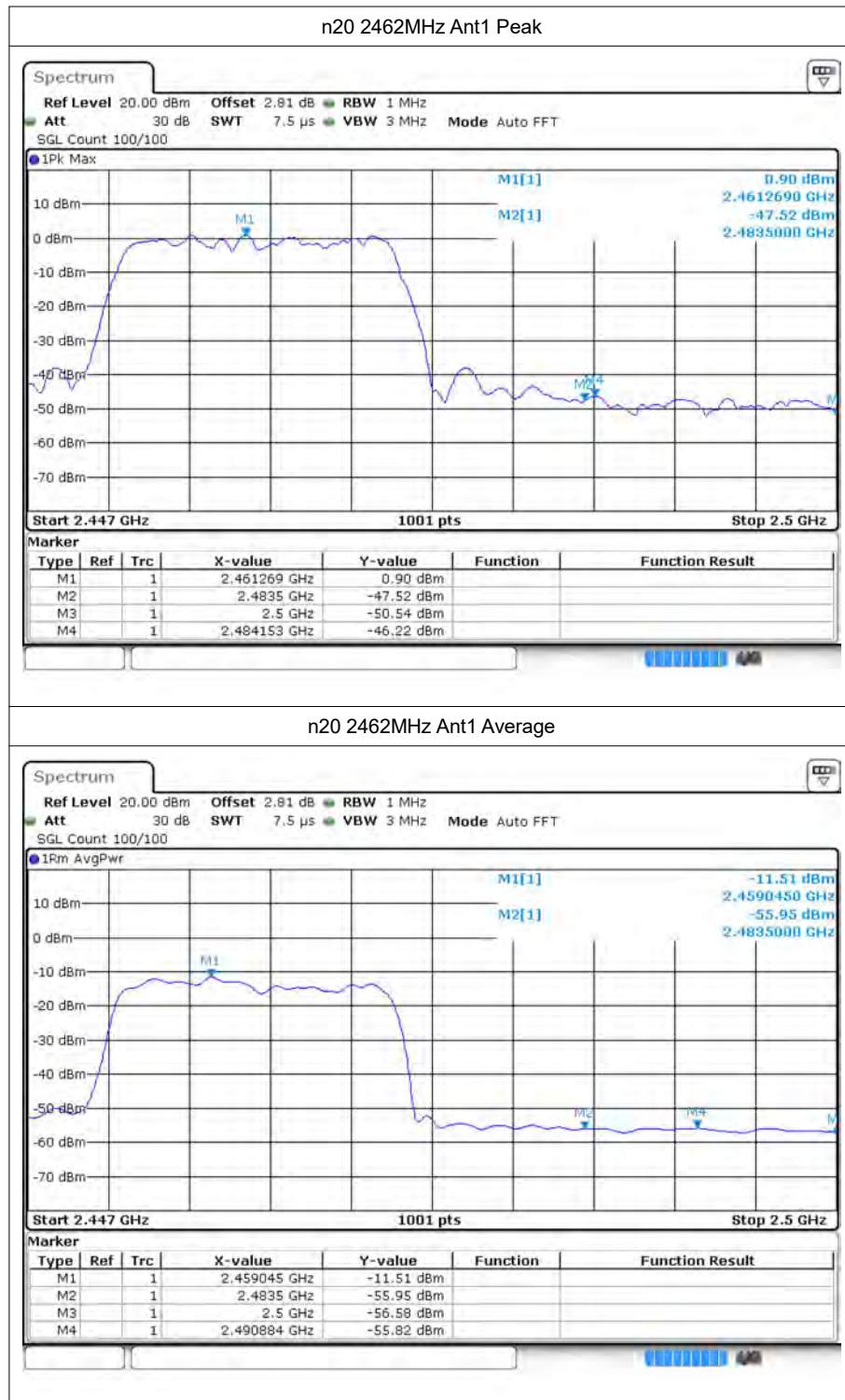












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