



Appendix C

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: Baby Camera

Trade Mark: Litokam

Test Model: P6

Environmental Conditions

Temperature:	25.6° 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	9
2.1 Test Result	9
3 -6dB Bandwidth.....	10
3.1 Test Result	10
3.2 Test Graphs.....	11
4 Maximum Power Spectral Density Level.....	16
4.1 Test Result	16
4.2 Test Graphs.....	17
5 Band Edge	22
5.1 Test Result	22
5.2 Test Graphs.....	23
6 Conducted RF Spurious Emission	29
6.1 Test Result	29
6.2 Test Graphs.....	30
7 Restrict Band	39
7.1 Test Result	39
7.2 Test Graphs.....	41

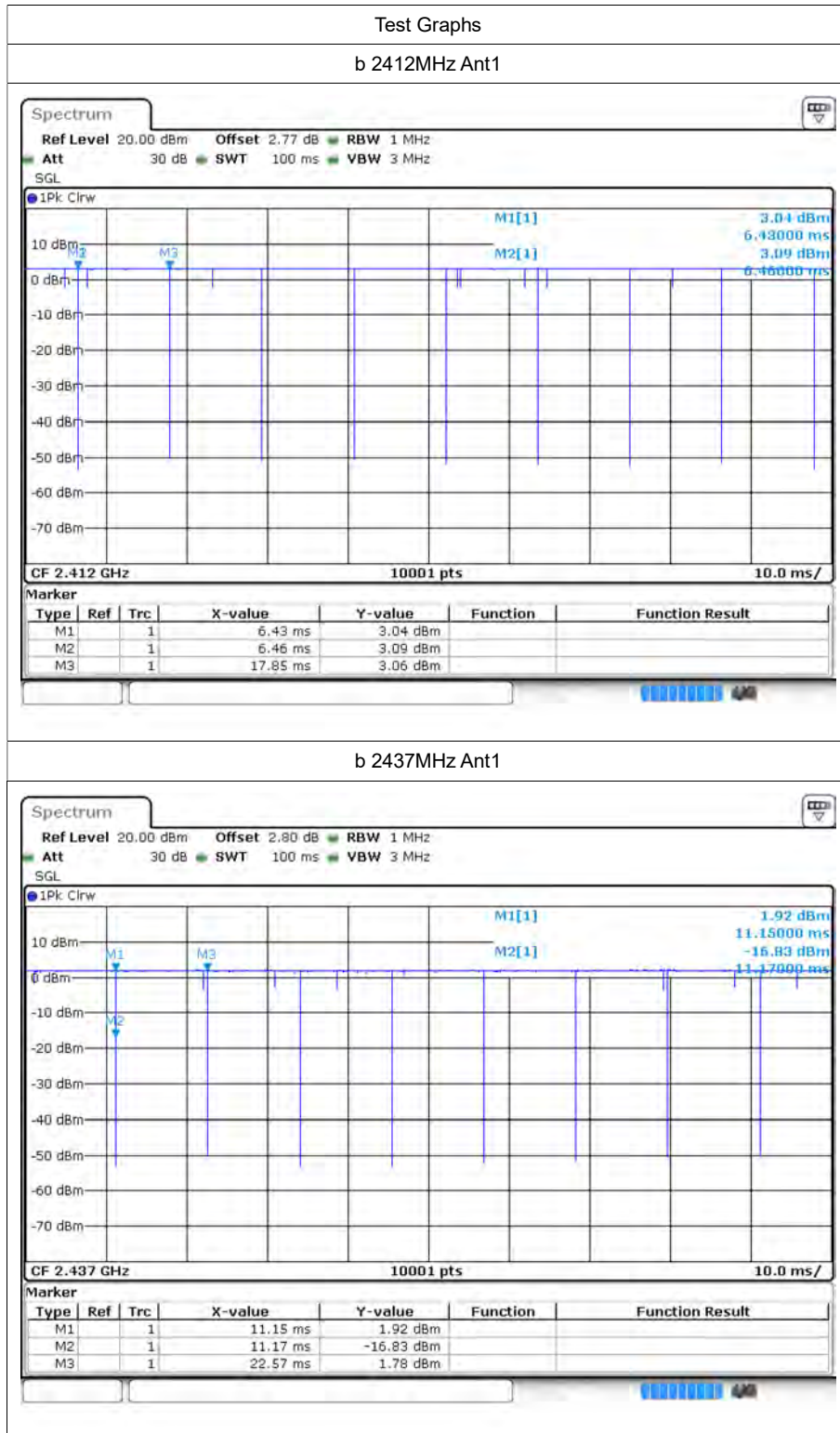


1 Duty Cycle

1.1 Test Result

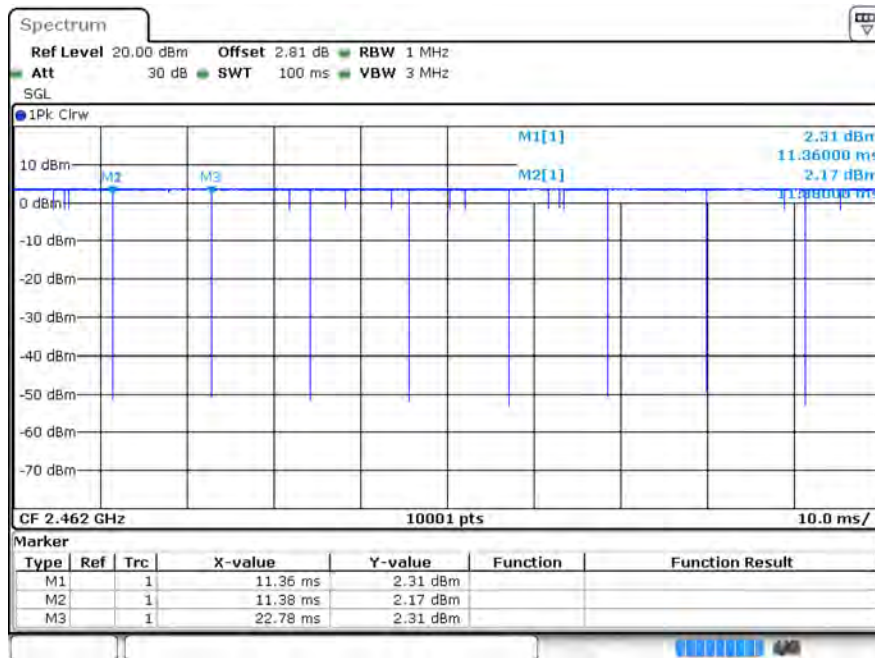
Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor	1/T (kHz)
b	2412	Ant1	99.87	0.01	0.09
b	2437	Ant1	99.9	0	0.09
b	2462	Ant1	99.88	0.01	0.09
g	2412	Ant1	99.77	0.01	0.08
g	2437	Ant1	99.78	0.01	0.08
g	2462	Ant1	99.78	0.01	0.08
n20	2412	Ant1	99.86	0.01	0.09
n20	2437	Ant1	99.88	0.01	0.09
n20	2462	Ant1	99.88	0.01	0.09

1.2 Test Graphs

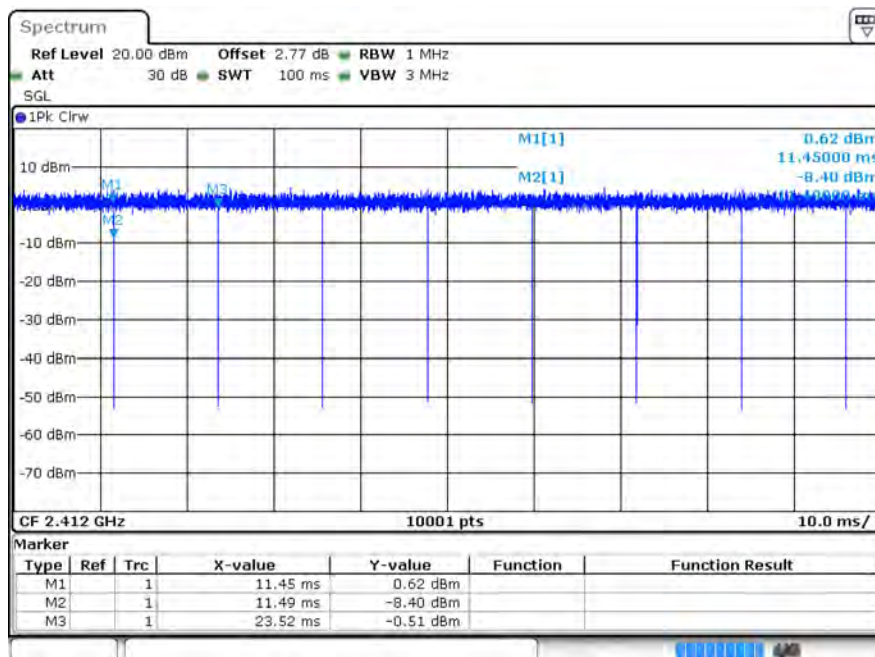


Test Graphs

b 2462MHz Ant1

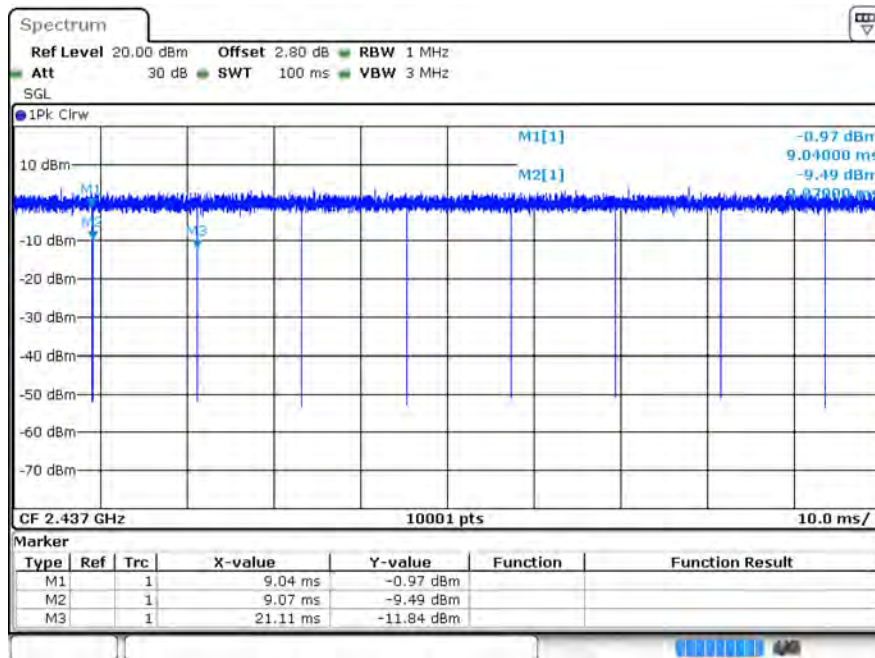


g 2412MHz Ant1

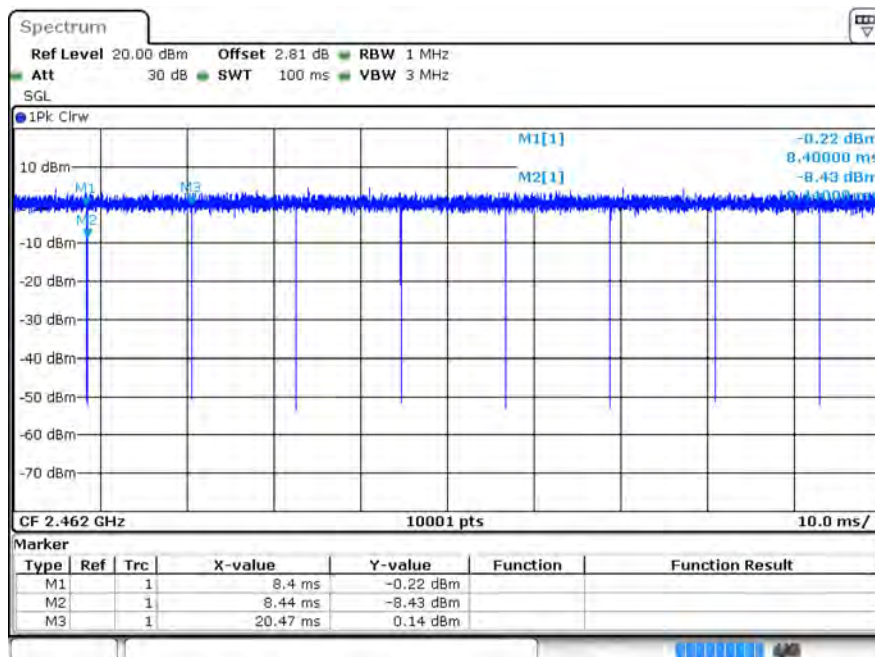


Test Graphs

g 2437MHz Ant1

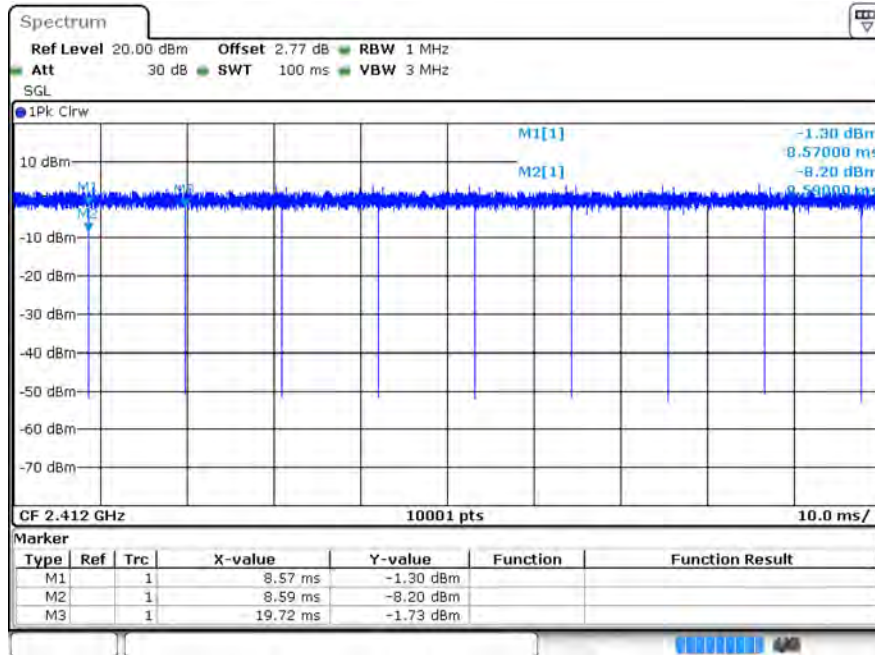


g 2462MHz Ant1

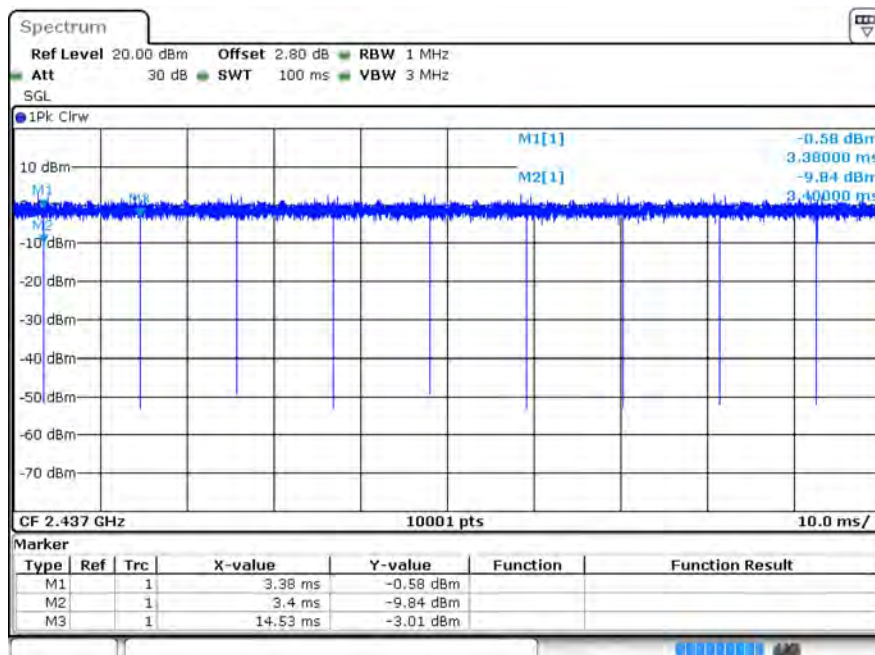


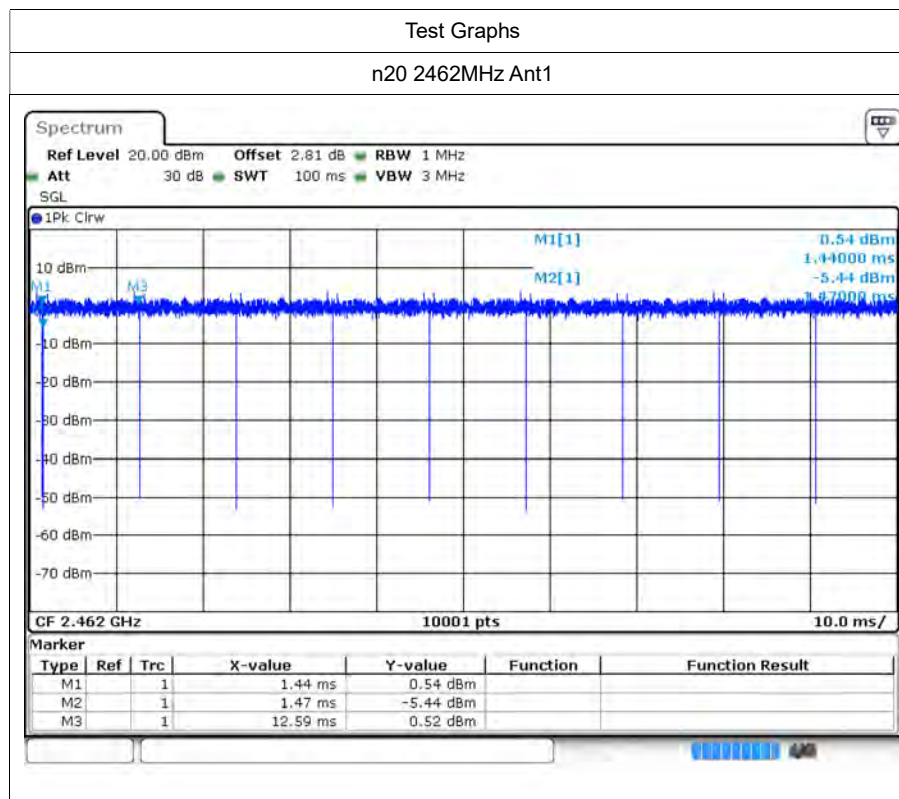
Test Graphs

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	13.21	30	Pass
b	2437	Ant1	11.94	30	Pass
b	2462	Ant1	13.63	30	Pass
g	2412	Ant1	13.02	30	Pass
g	2437	Ant1	12.56	30	Pass
g	2462	Ant1	12.62	30	Pass
n20	2412	Ant1	12.45	30	Pass
n20	2437	Ant1	12.09	30	Pass
n20	2462	Ant1	12.22	30	Pass

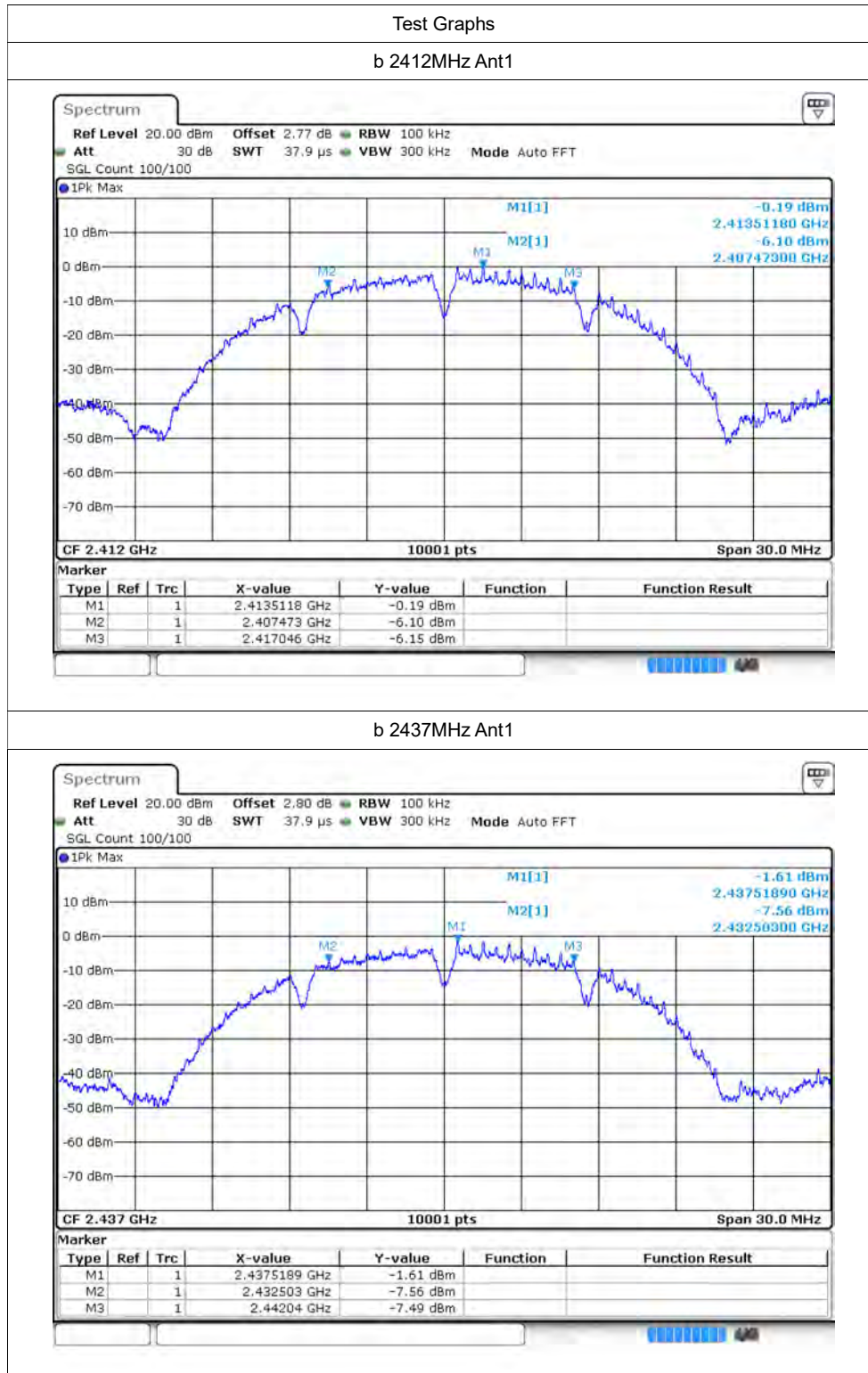


3 -6dB Bandwidth

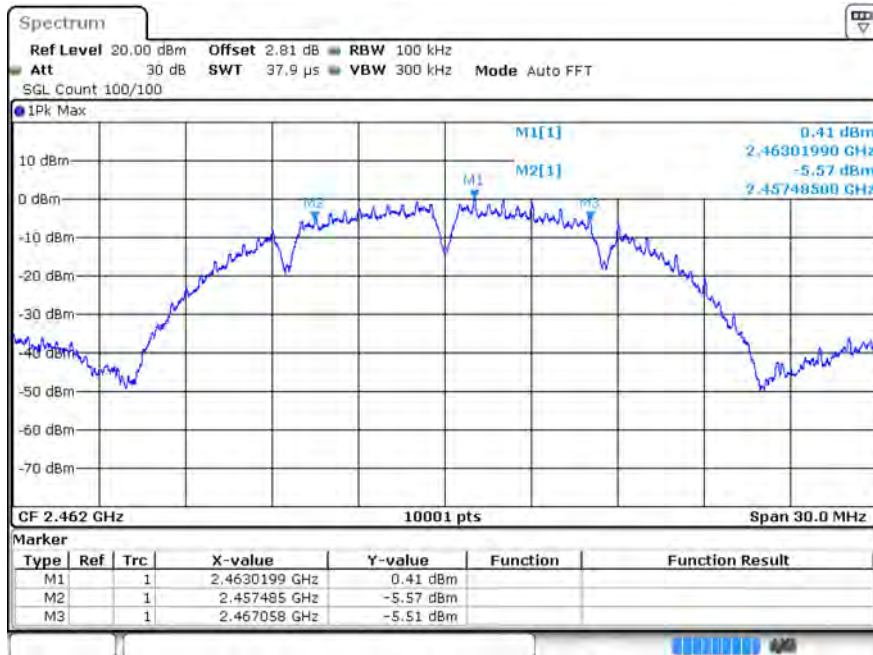
3.1 Test Result

Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
b	2412	Ant1	9.573	0.5	Pass
b	2437	Ant1	9.537	0.5	Pass
b	2462	Ant1	9.573	0.5	Pass
g	2412	Ant1	13.71	0.5	Pass
g	2437	Ant1	16.566	0.5	Pass
g	2462	Ant1	14.976	0.5	Pass
n20	2412	Ant1	14.235	0.5	Pass
n20	2437	Ant1	17.583	0.5	Pass
n20	2462	Ant1	15.681	0.5	Pass

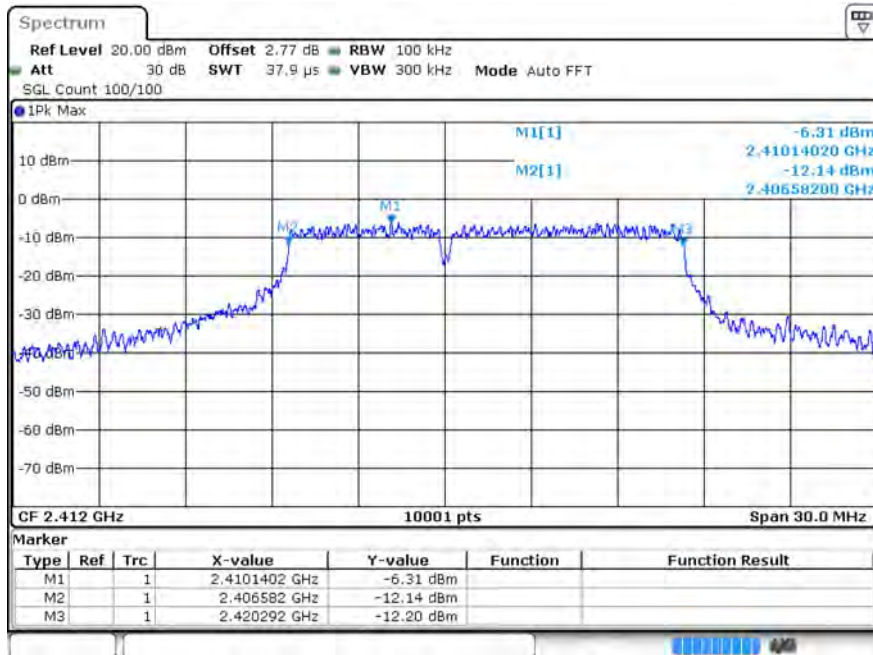
3.2 Test Graphs



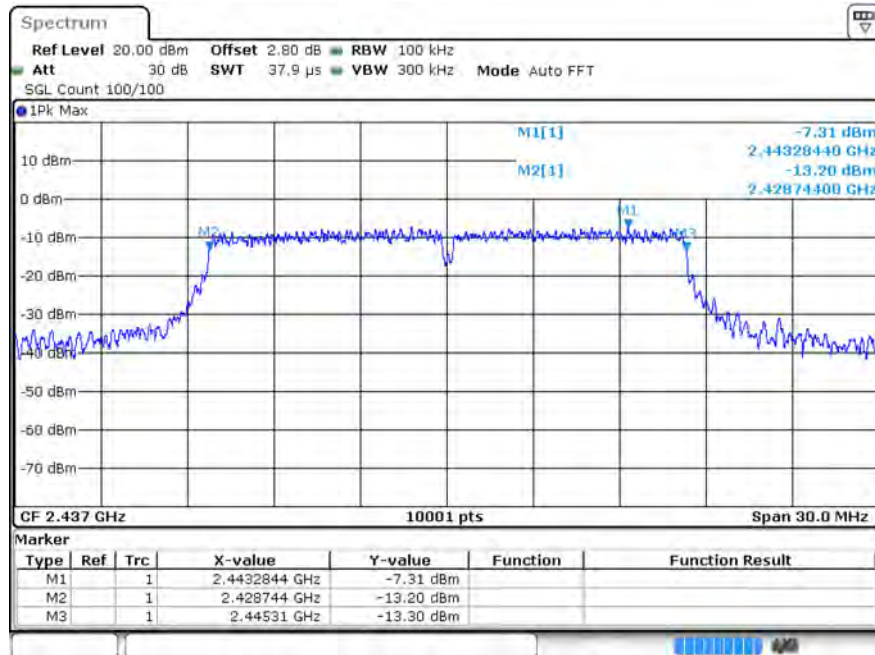
b 2462MHz Ant1



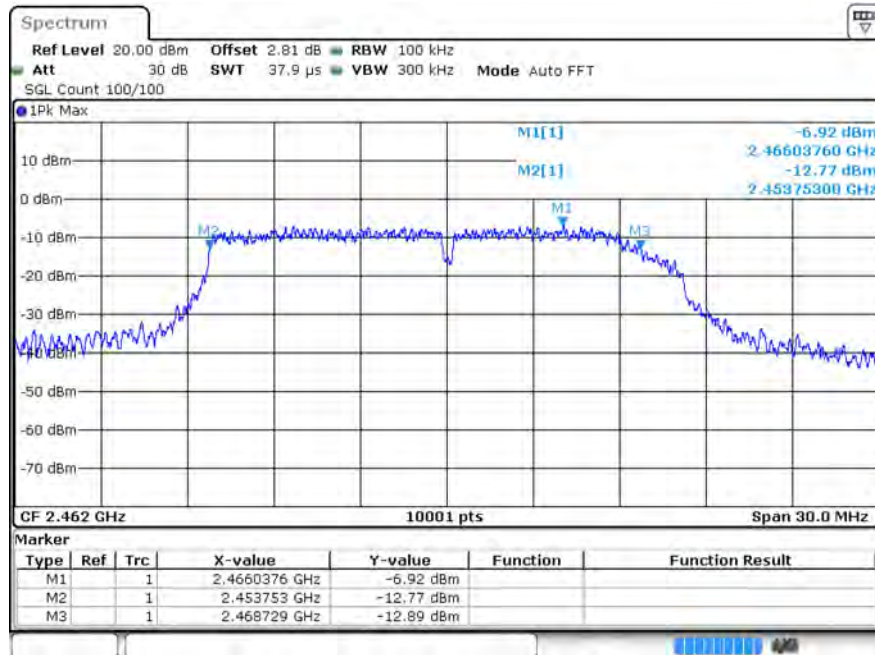
g 2412MHz Ant1



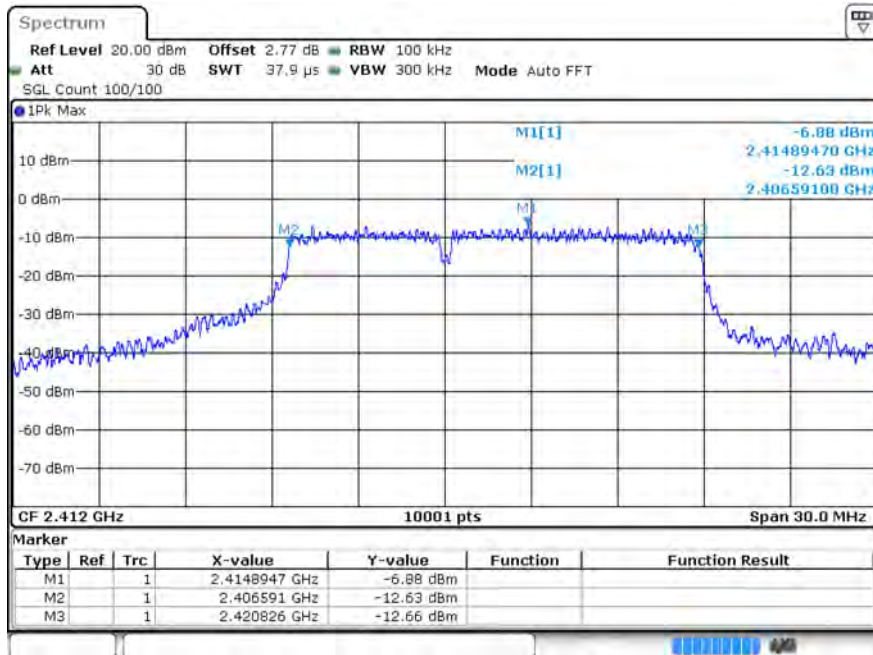
g 2437MHz Ant1



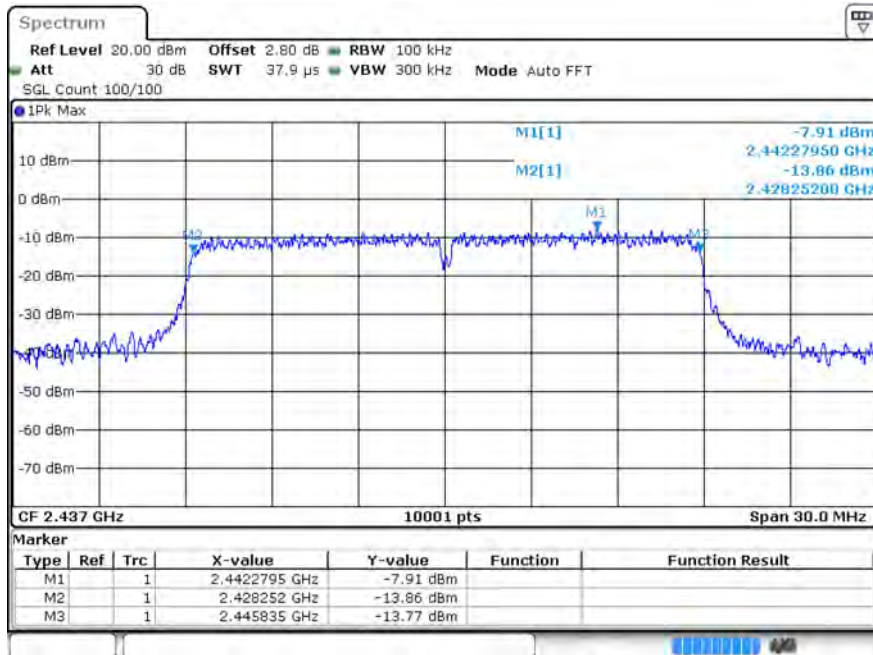
g 2462MHz Ant1

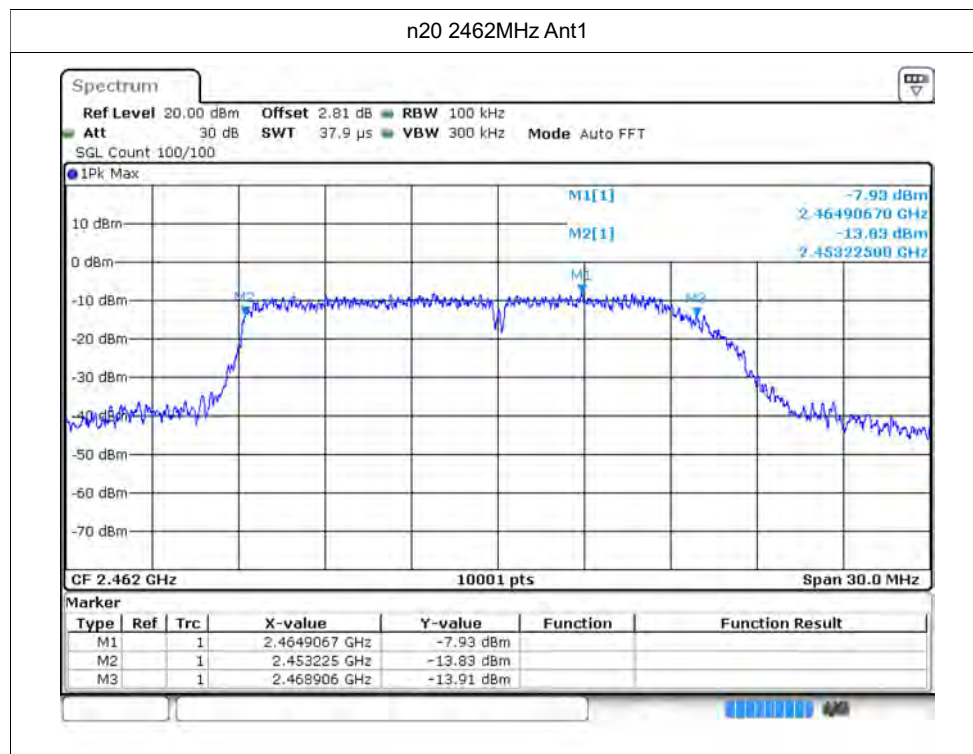


n20 2412MHz Ant1



n20 2437MHz Ant1



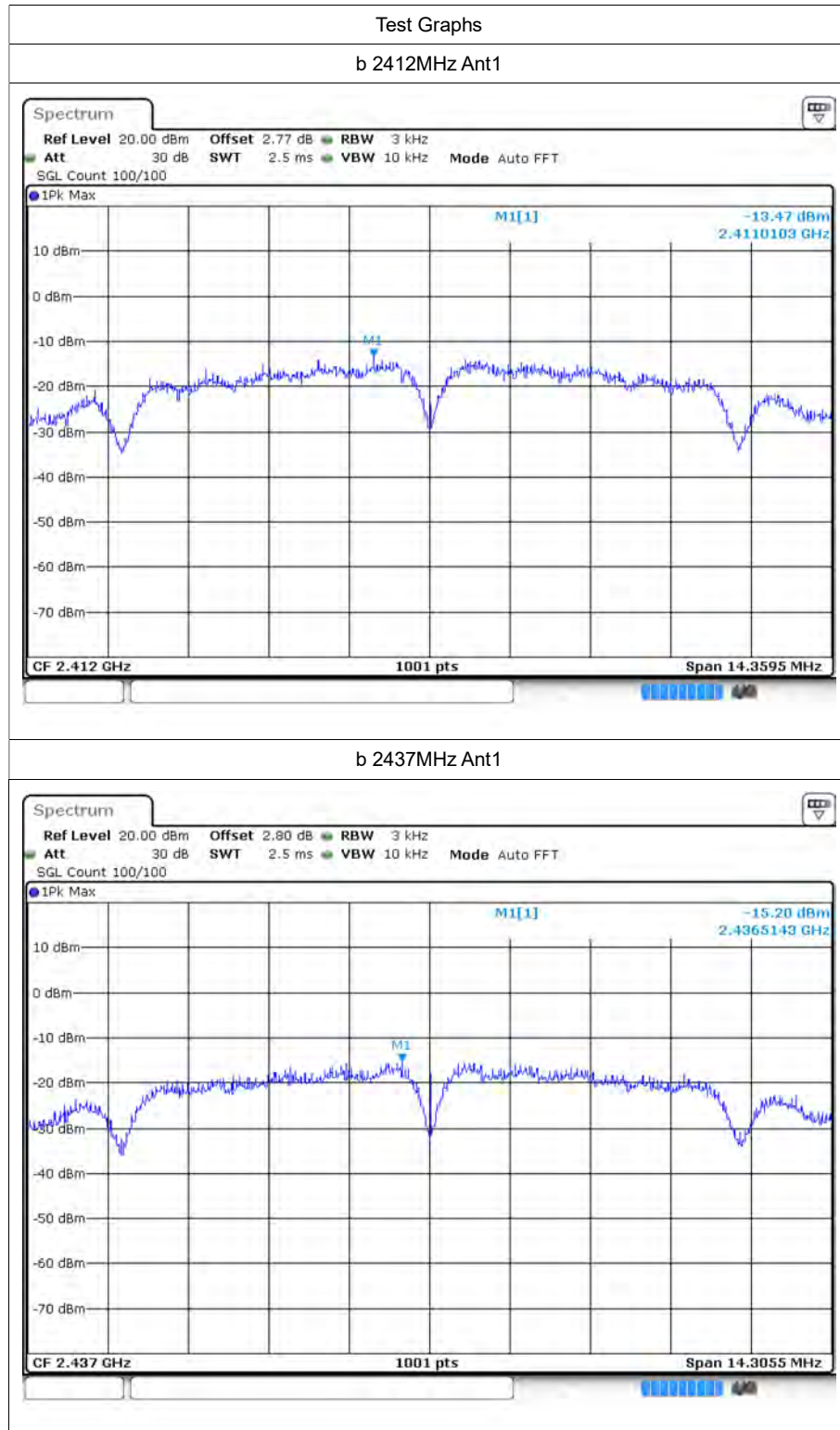


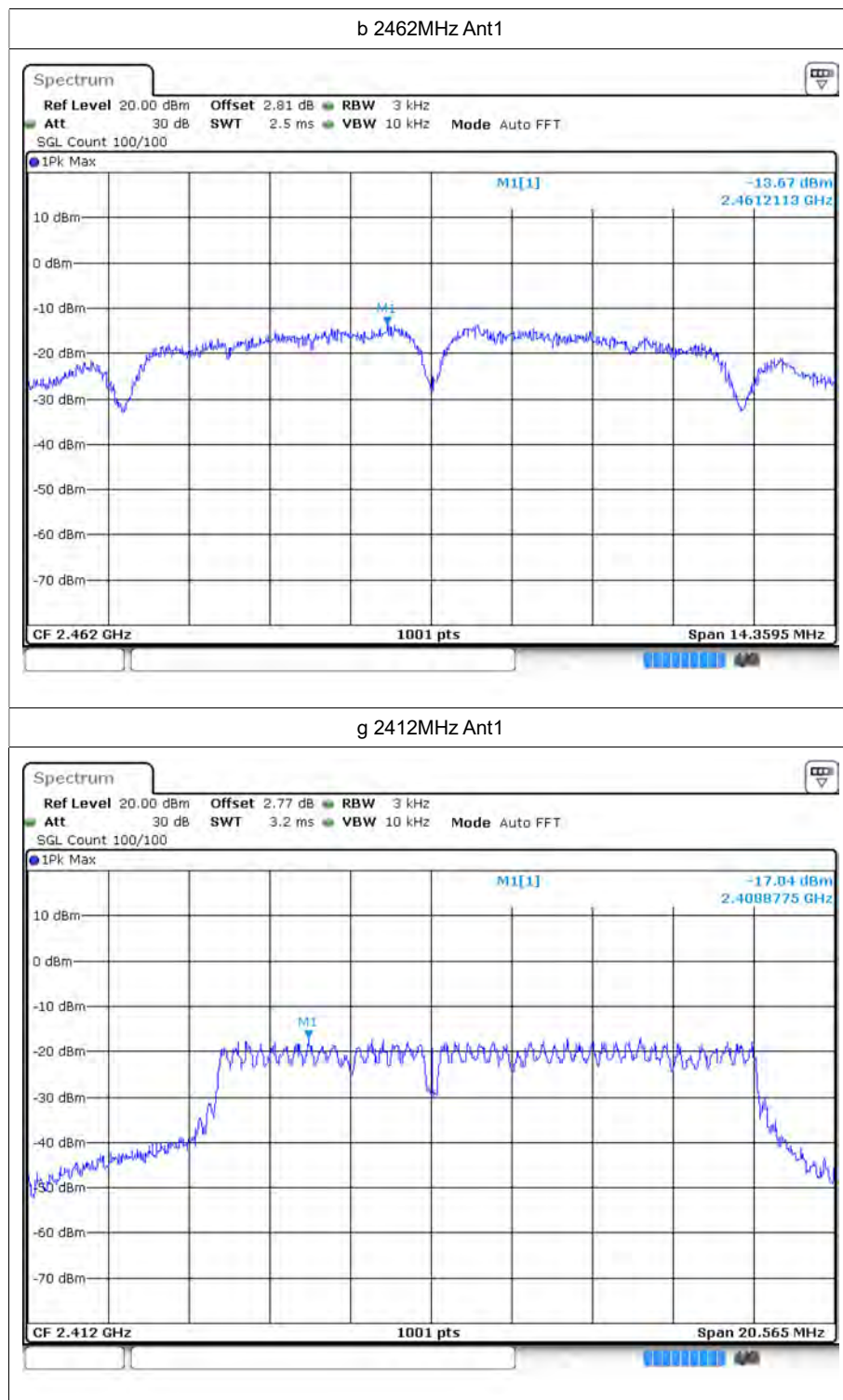
4 Maximum Power Spectral Density Level

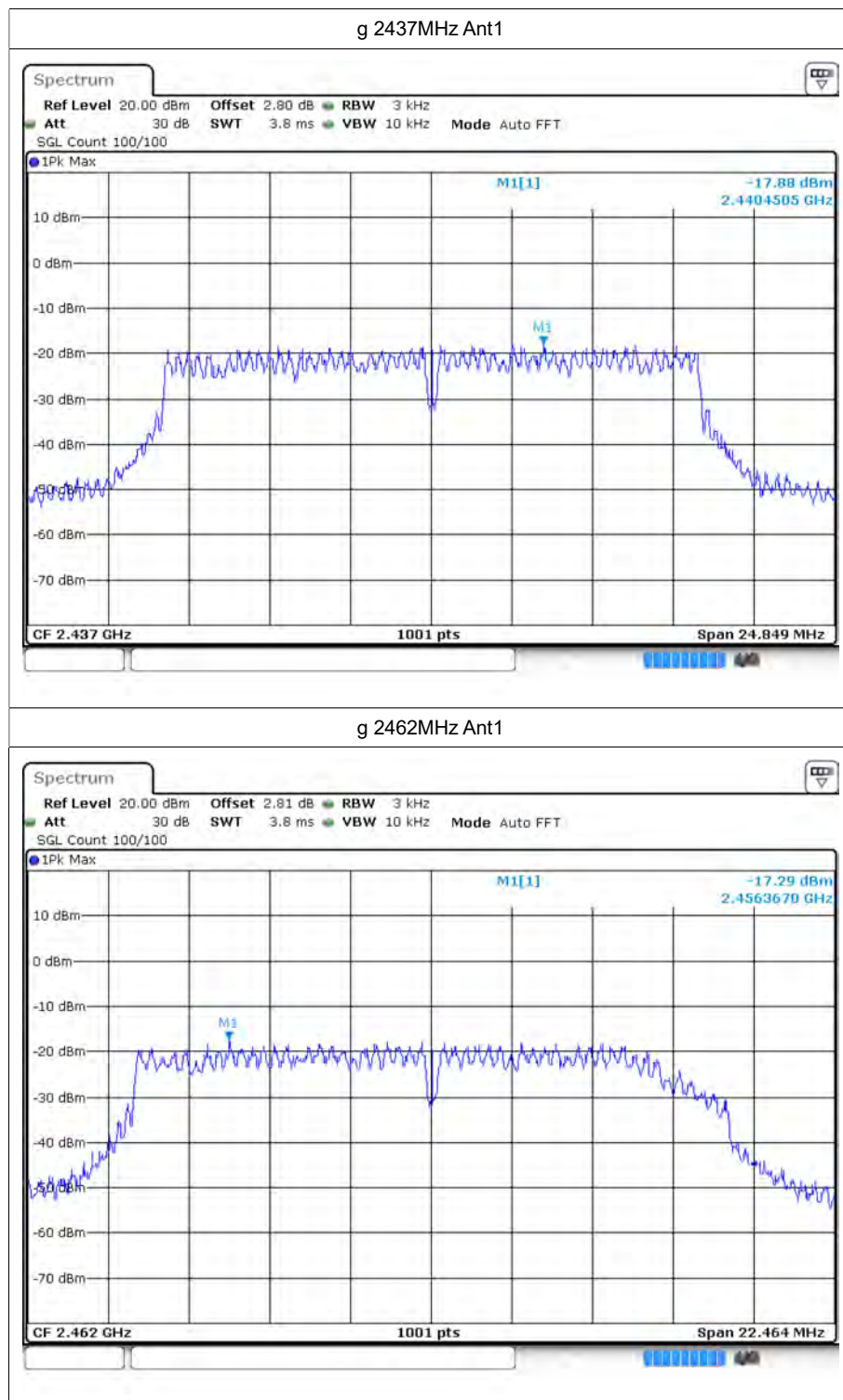
4.1 Test Result

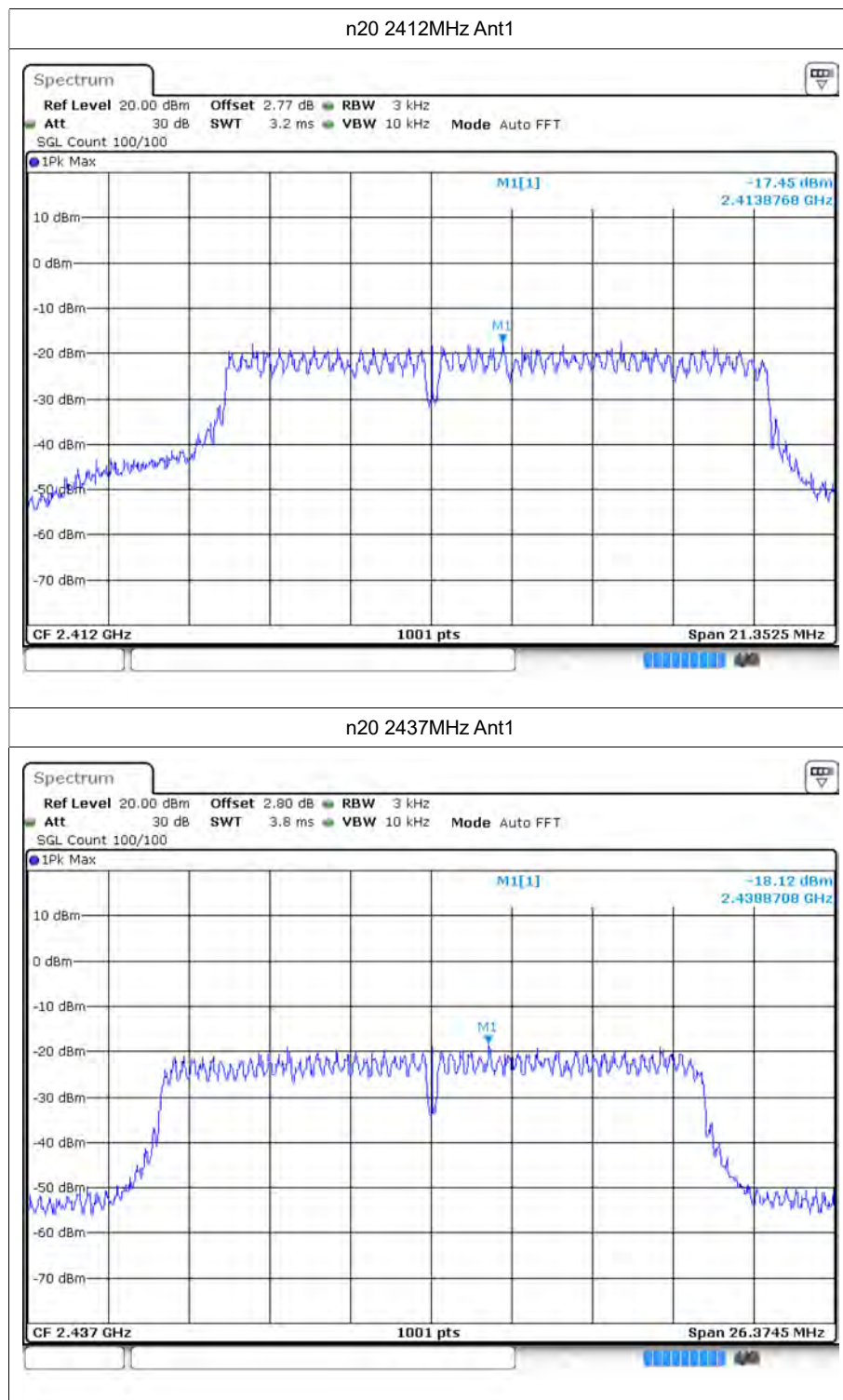
Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3-100kHz)	Limit (dBm/3kHz)	Verdict
b	2412	Ant1	-13.47	≤ 8	Pass
b	2437	Ant1	-15.2	≤ 8	Pass
b	2462	Ant1	-13.67	≤ 8	Pass
g	2412	Ant1	-17.04	≤ 8	Pass
g	2437	Ant1	-17.88	≤ 8	Pass
g	2462	Ant1	-17.29	≤ 8	Pass
n20	2412	Ant1	-17.45	≤ 8	Pass
n20	2437	Ant1	-18.12	≤ 8	Pass
n20	2462	Ant1	-14.8	≤ 8	Pass

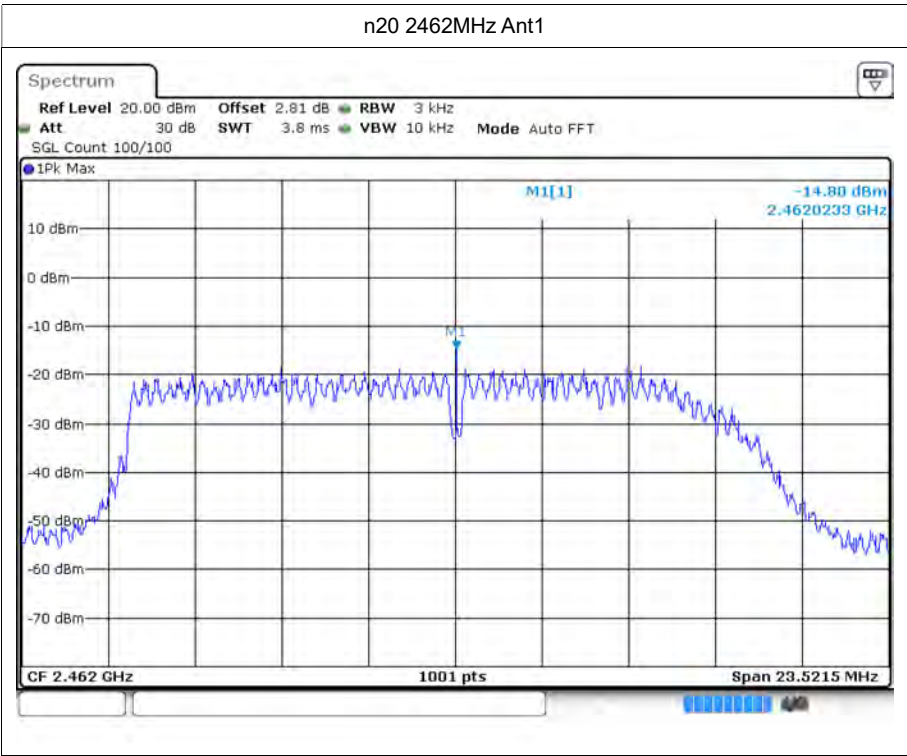
4.2 Test Graphs











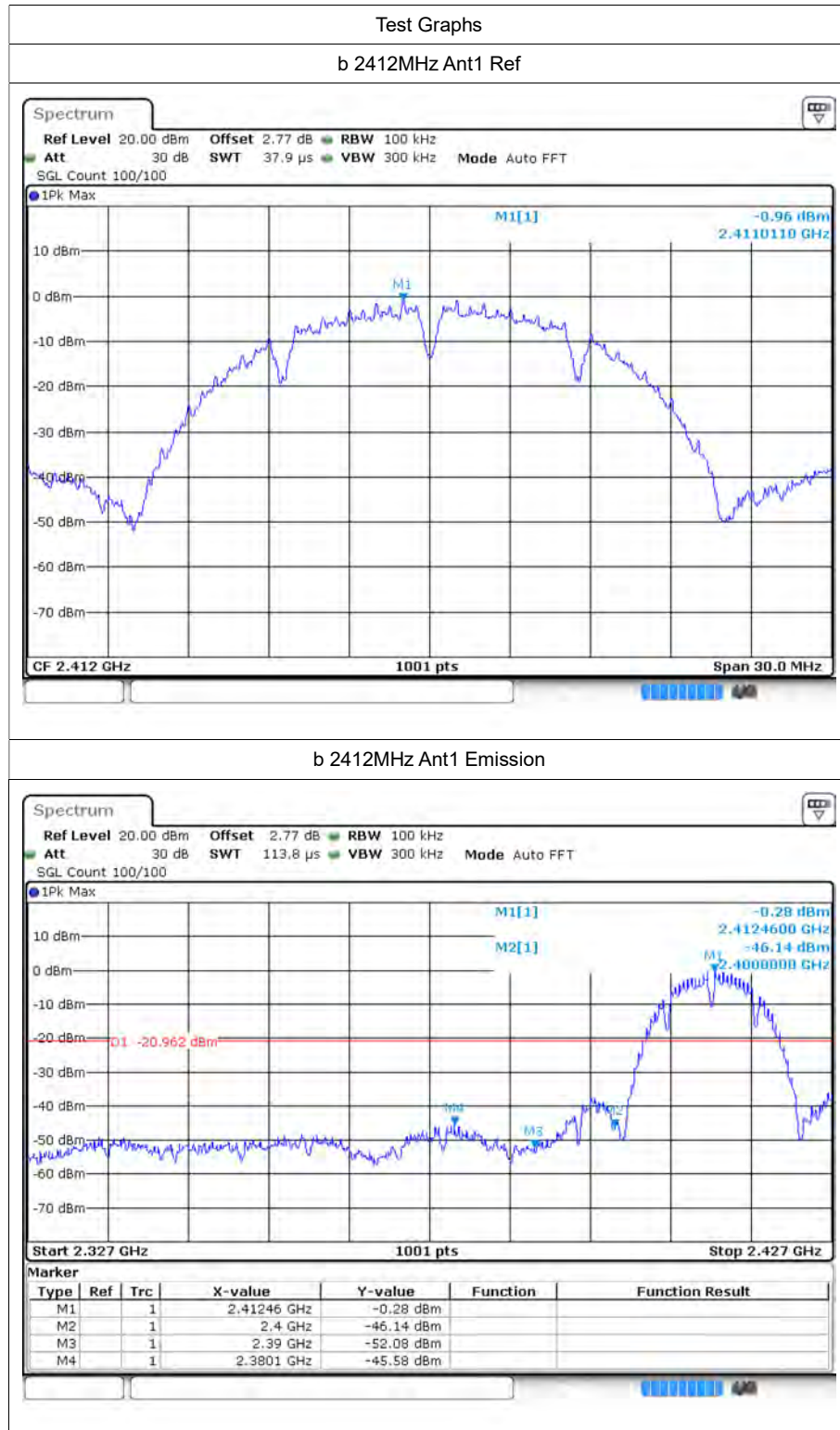


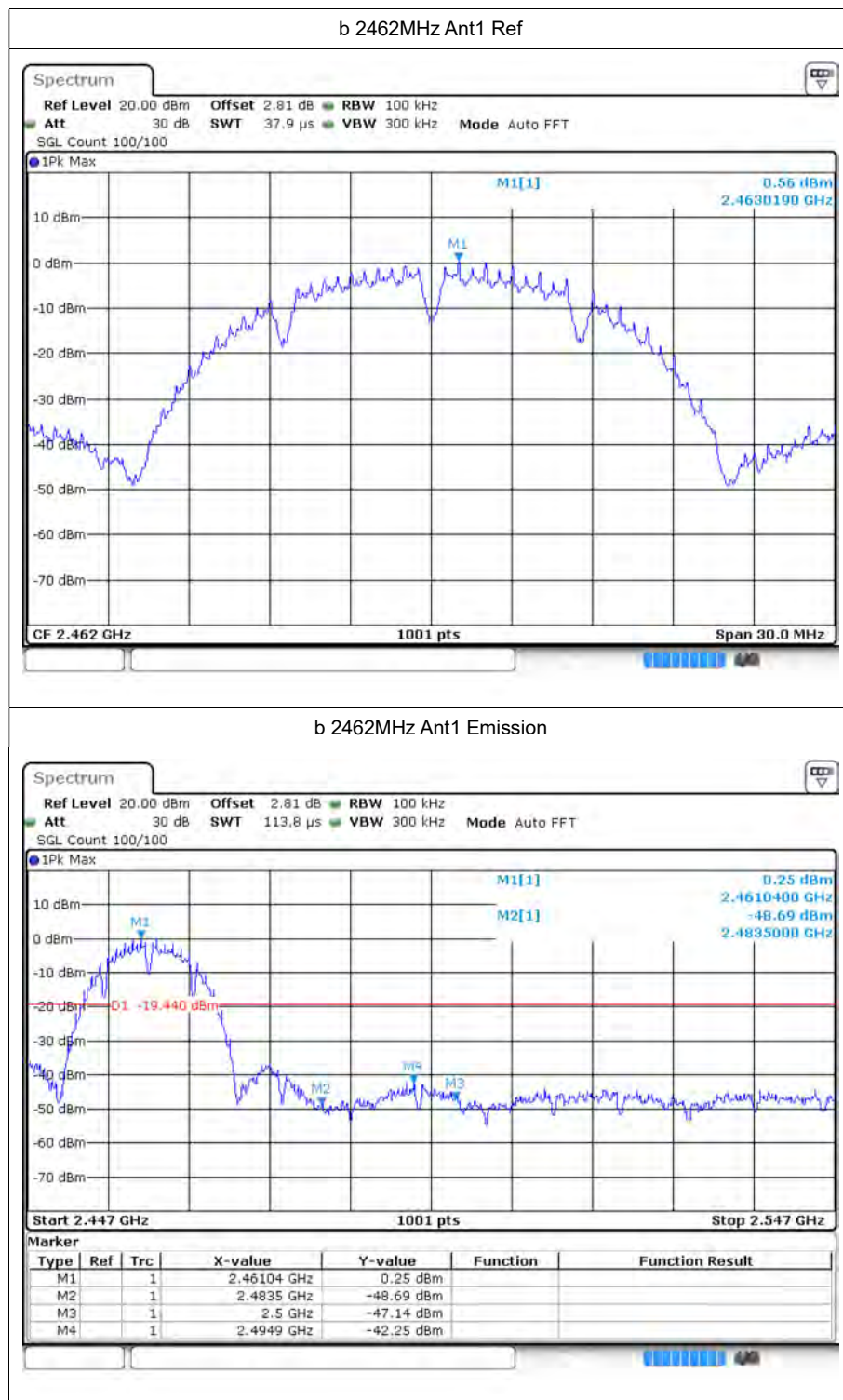
5 Band Edge

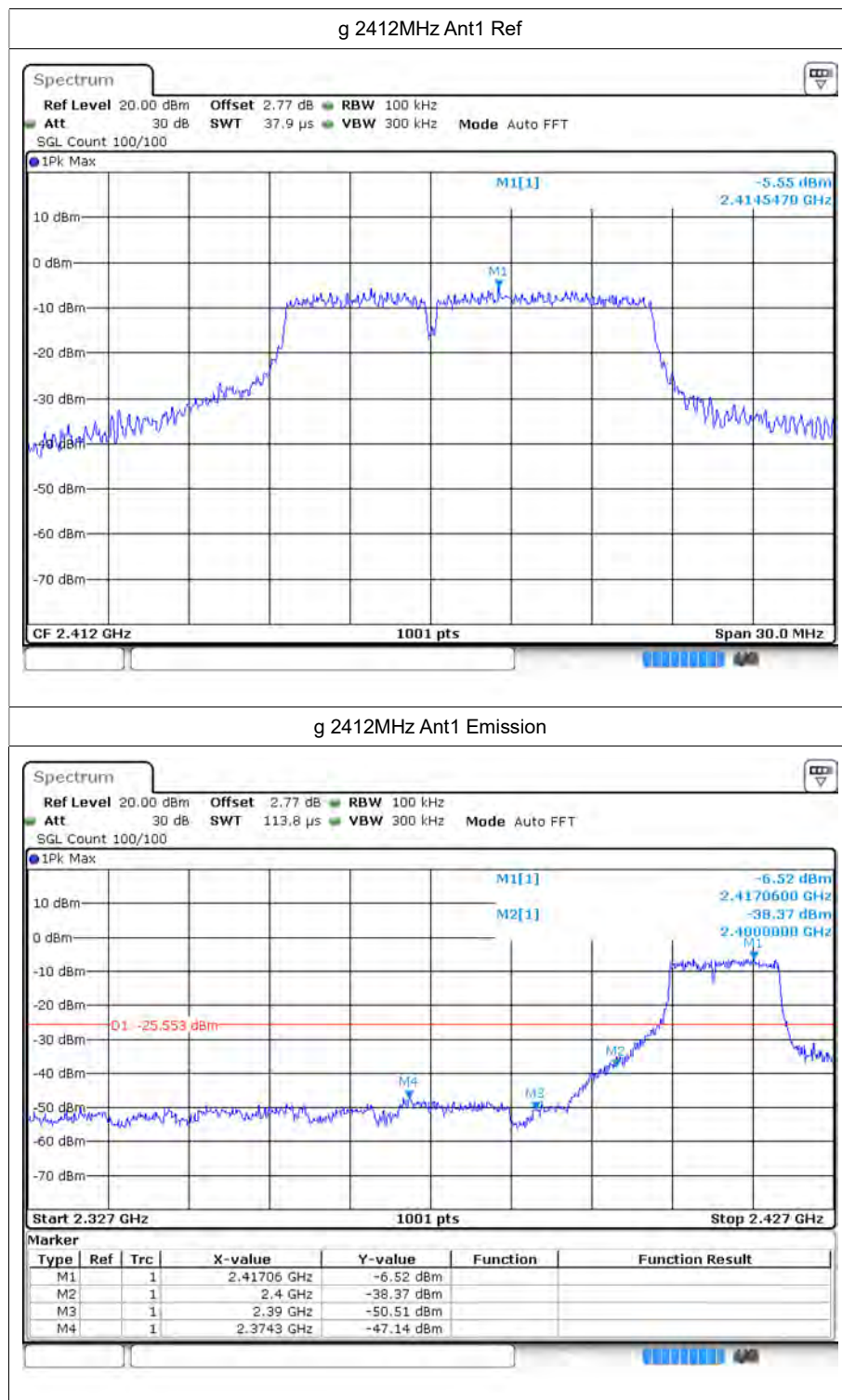
5.1 Test Result

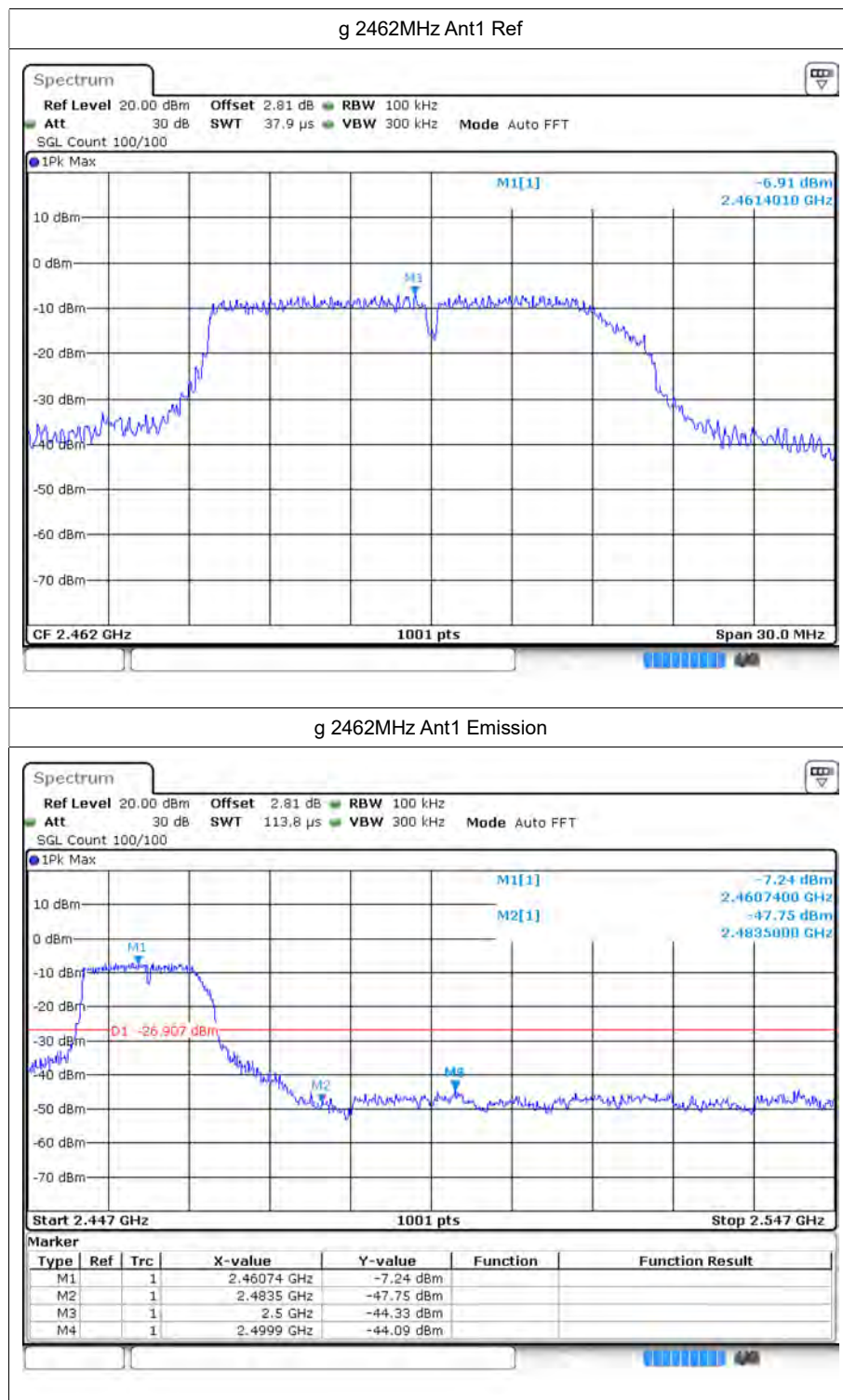
Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
b	2412	Ant1	-44.62	-20	Pass
b	2462	Ant1	-42.8	-20	Pass
g	2412	Ant1	-41.58	-20	Pass
g	2462	Ant1	-37.17	-20	Pass
n20	2412	Ant1	-39.26	-20	Pass
n20	2462	Ant1	-38.1	-20	Pass

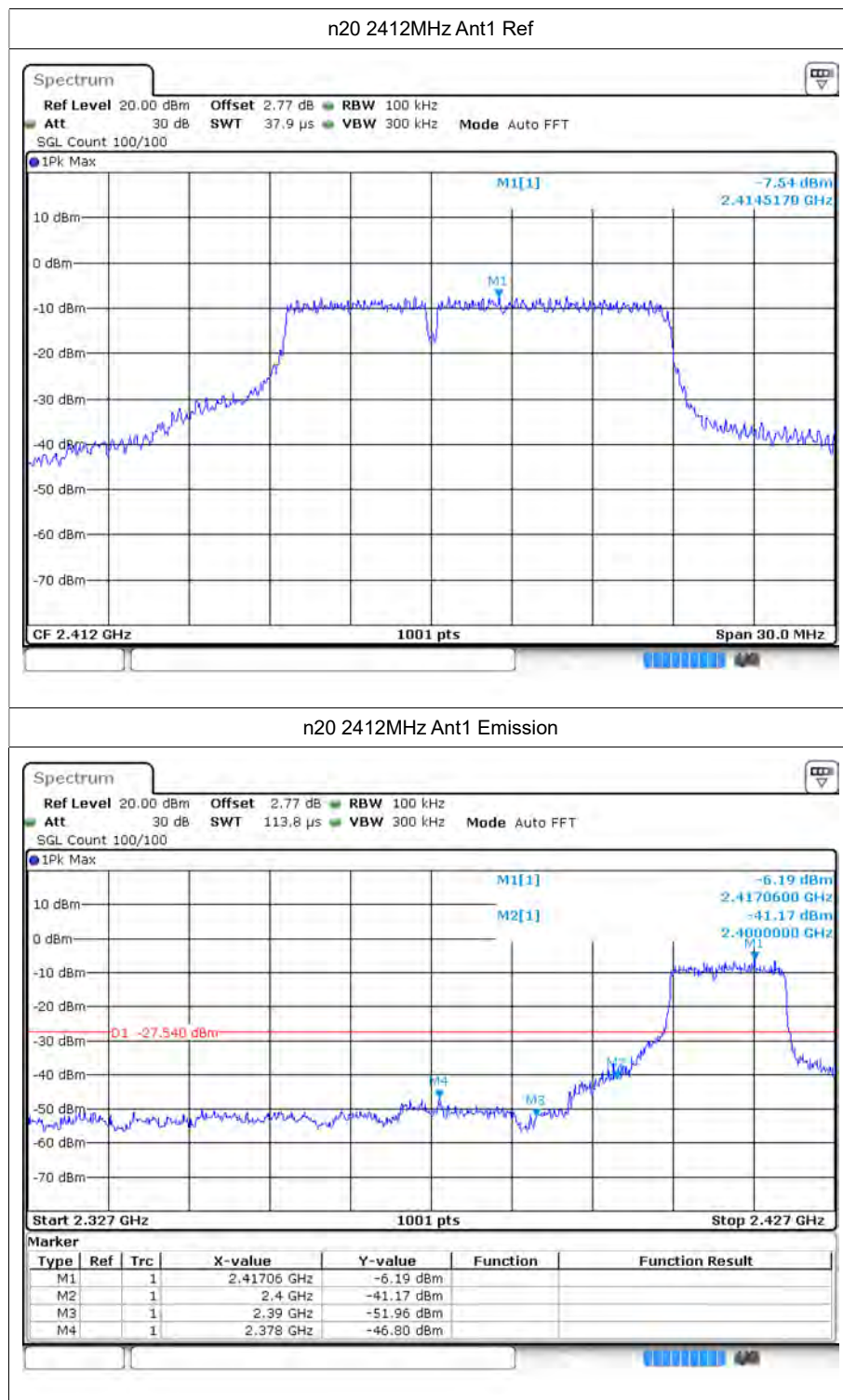
5.2 Test Graphs

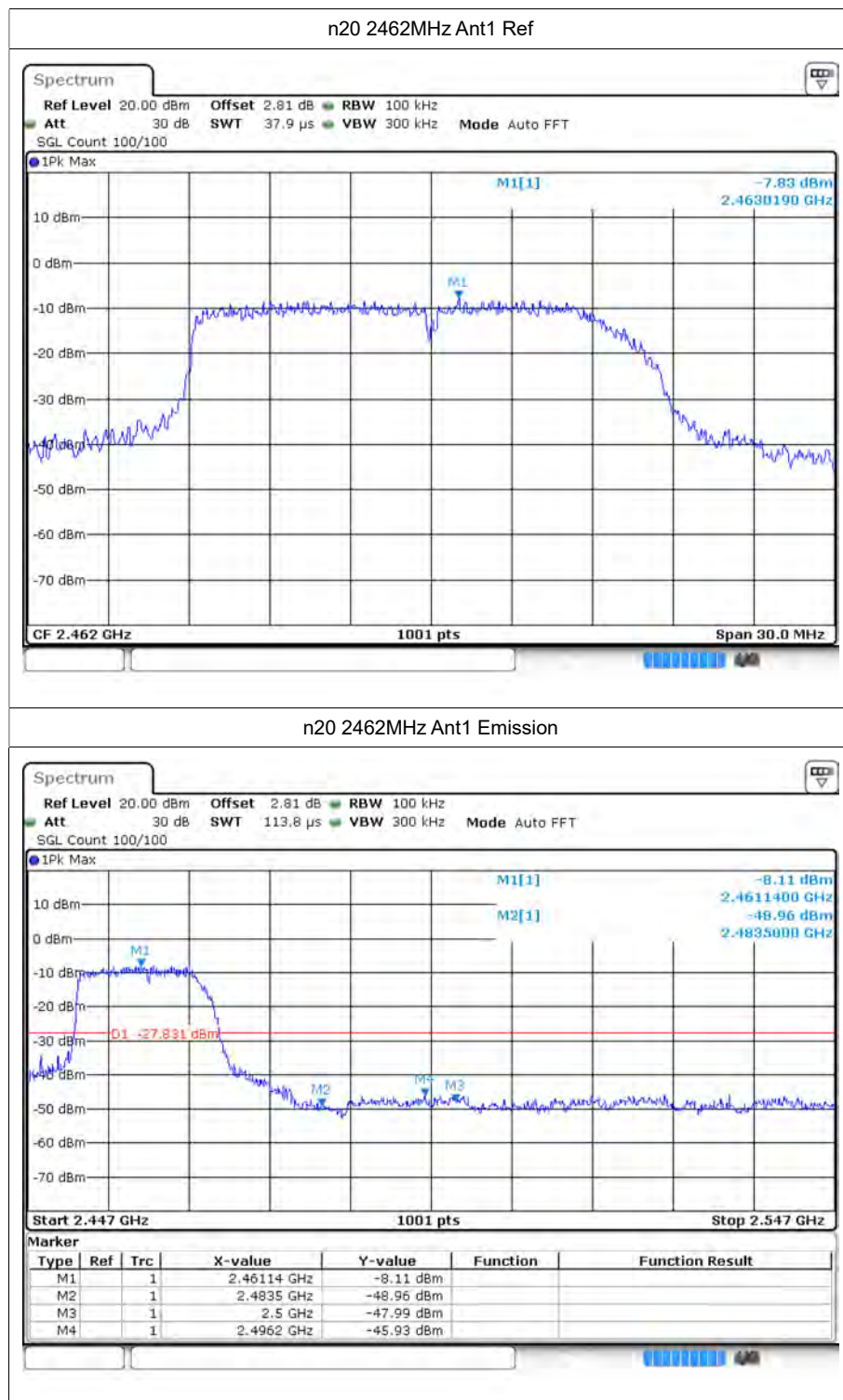












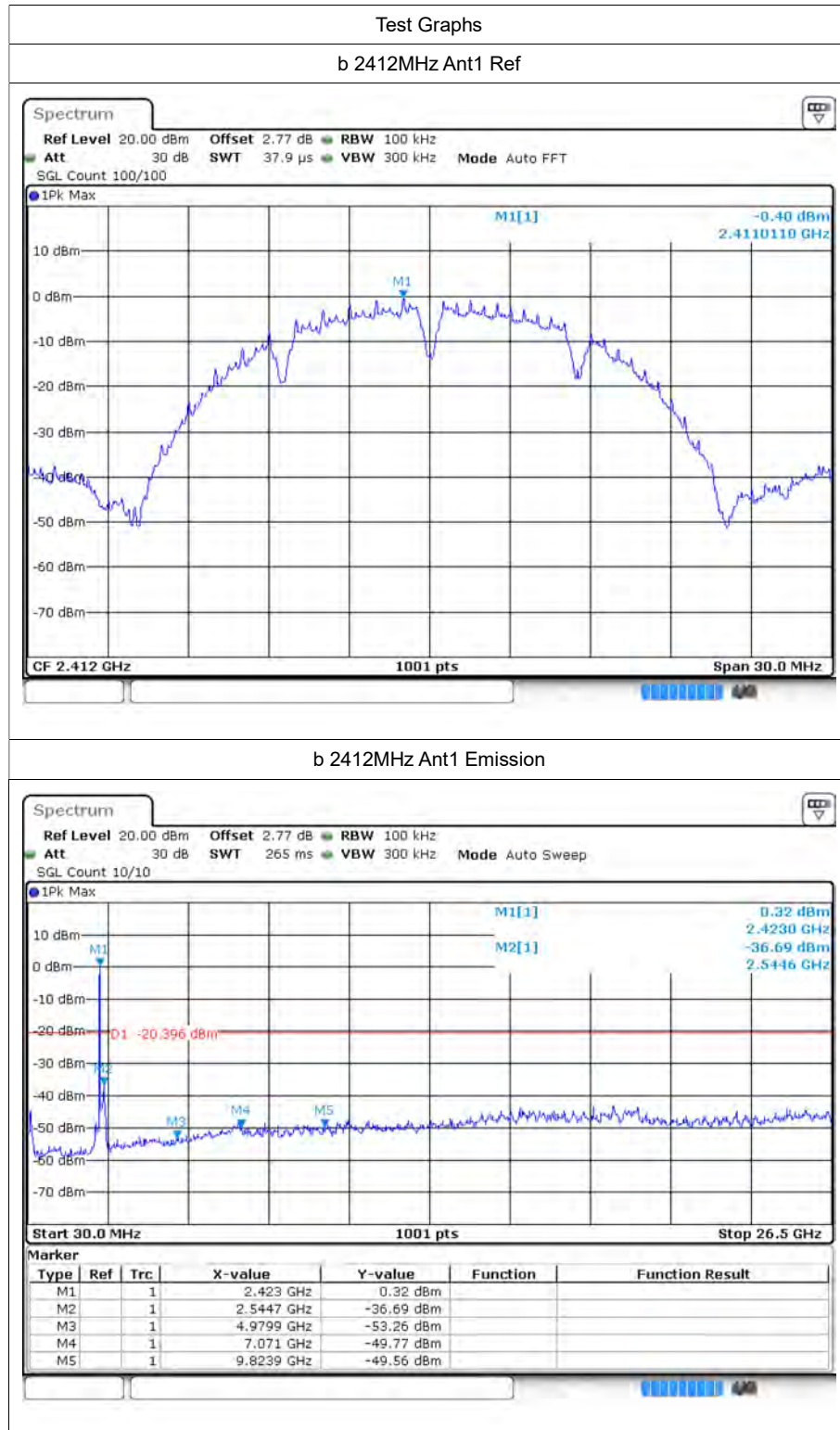


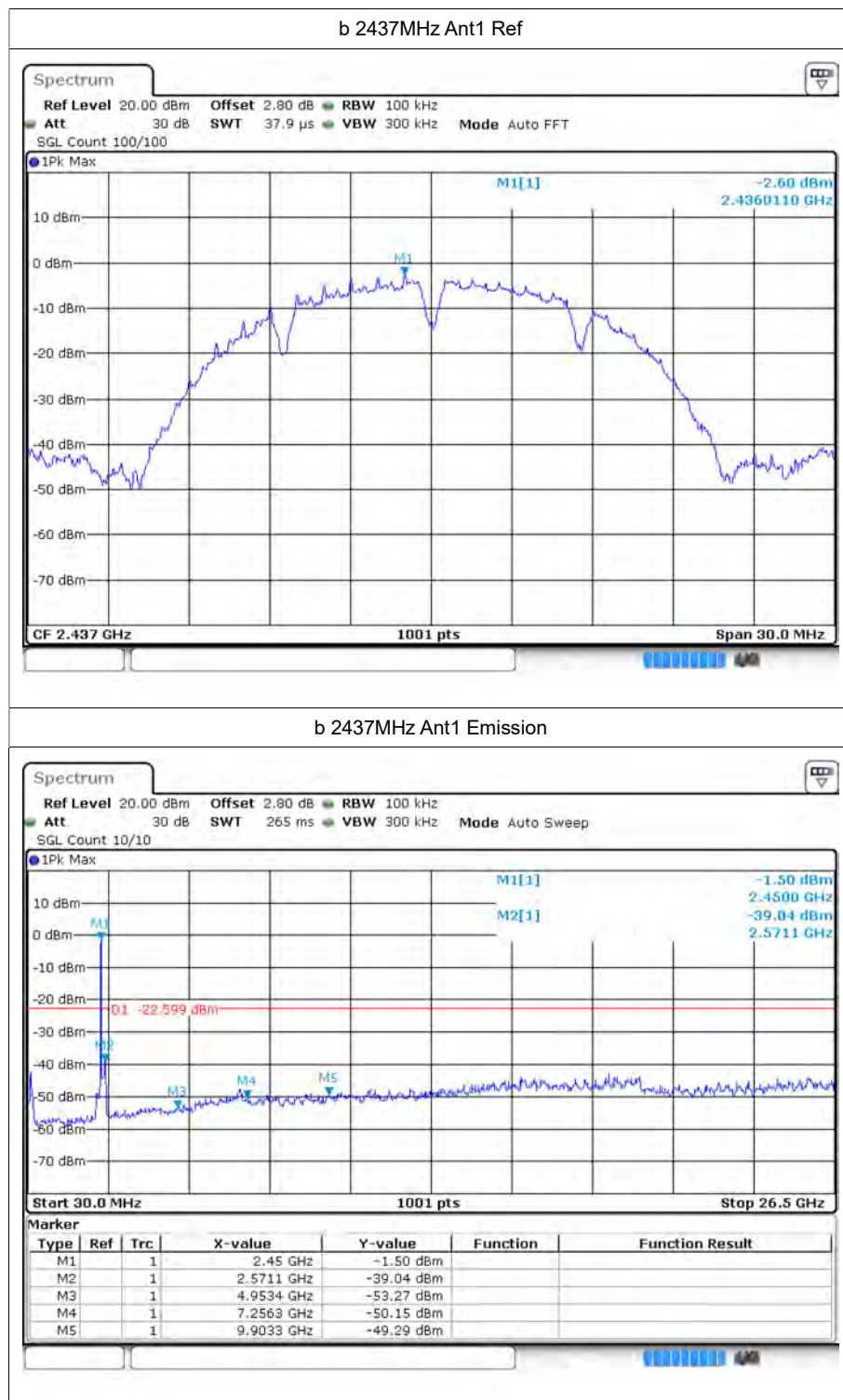
6 Conducted RF Spurious Emission

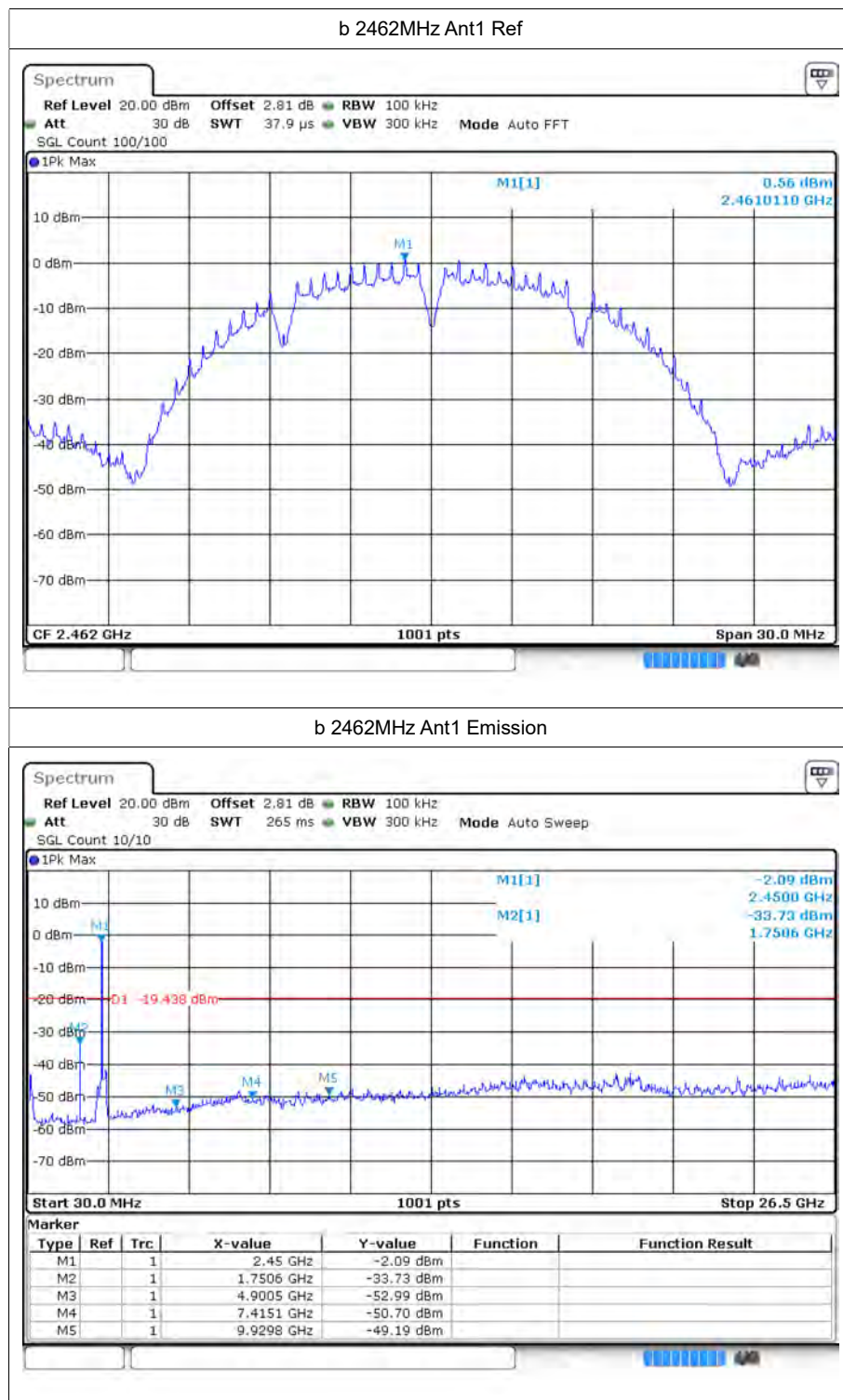
6.1 Test Result

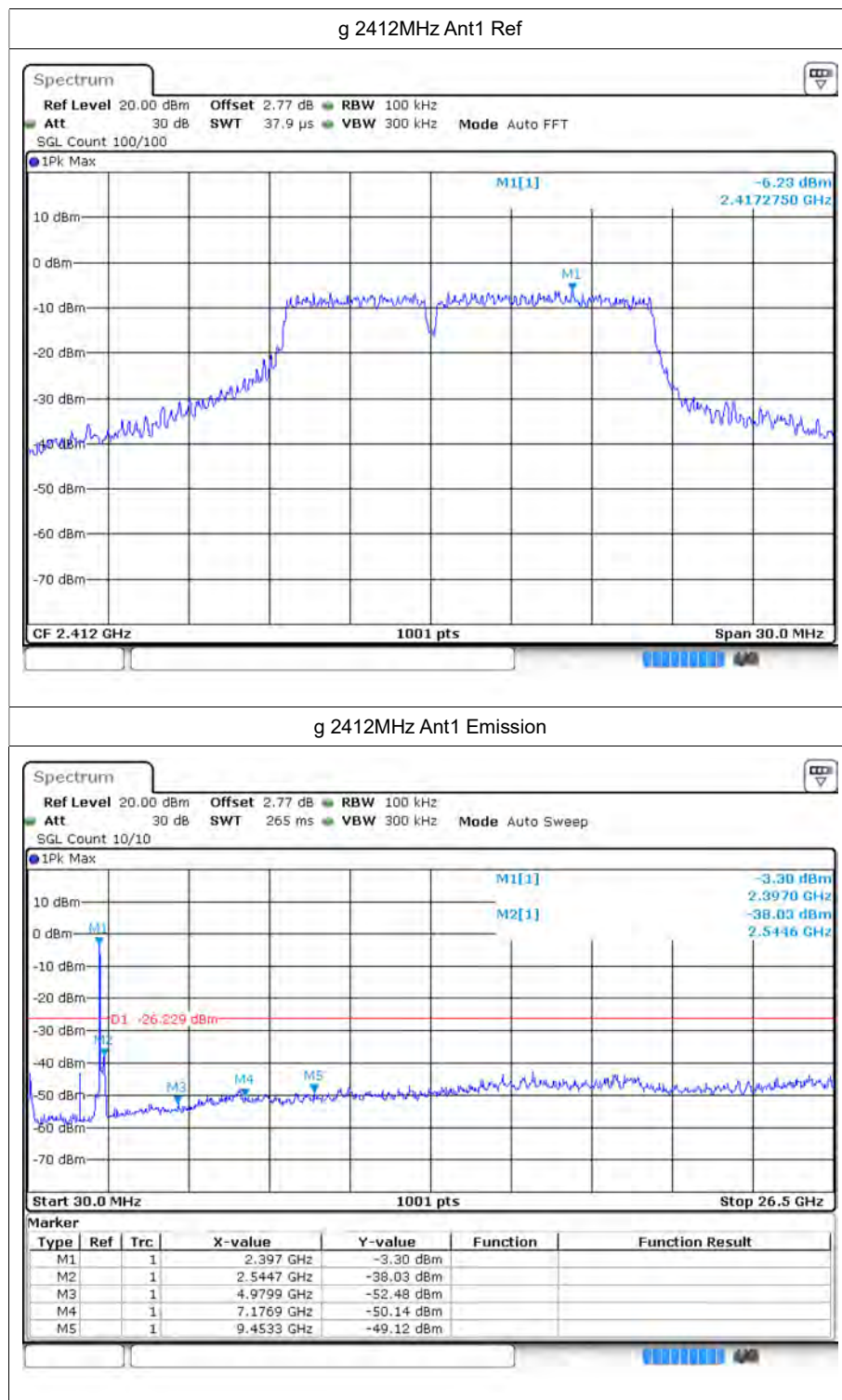
Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
b	2412	Ant1	-36.28	-20	Pass
b	2437	Ant1	-36.43	-20	Pass
b	2462	Ant1	-34.28	-20	Pass
g	2412	Ant1	-31.8	-20	Pass
g	2437	Ant1	-34.38	-20	Pass
g	2462	Ant1	-30.25	-20	Pass
n20	2412	Ant1	-32.34	-20	Pass
n20	2437	Ant1	-33.53	-20	Pass
n20	2462	Ant1	-34.37	-20	Pass

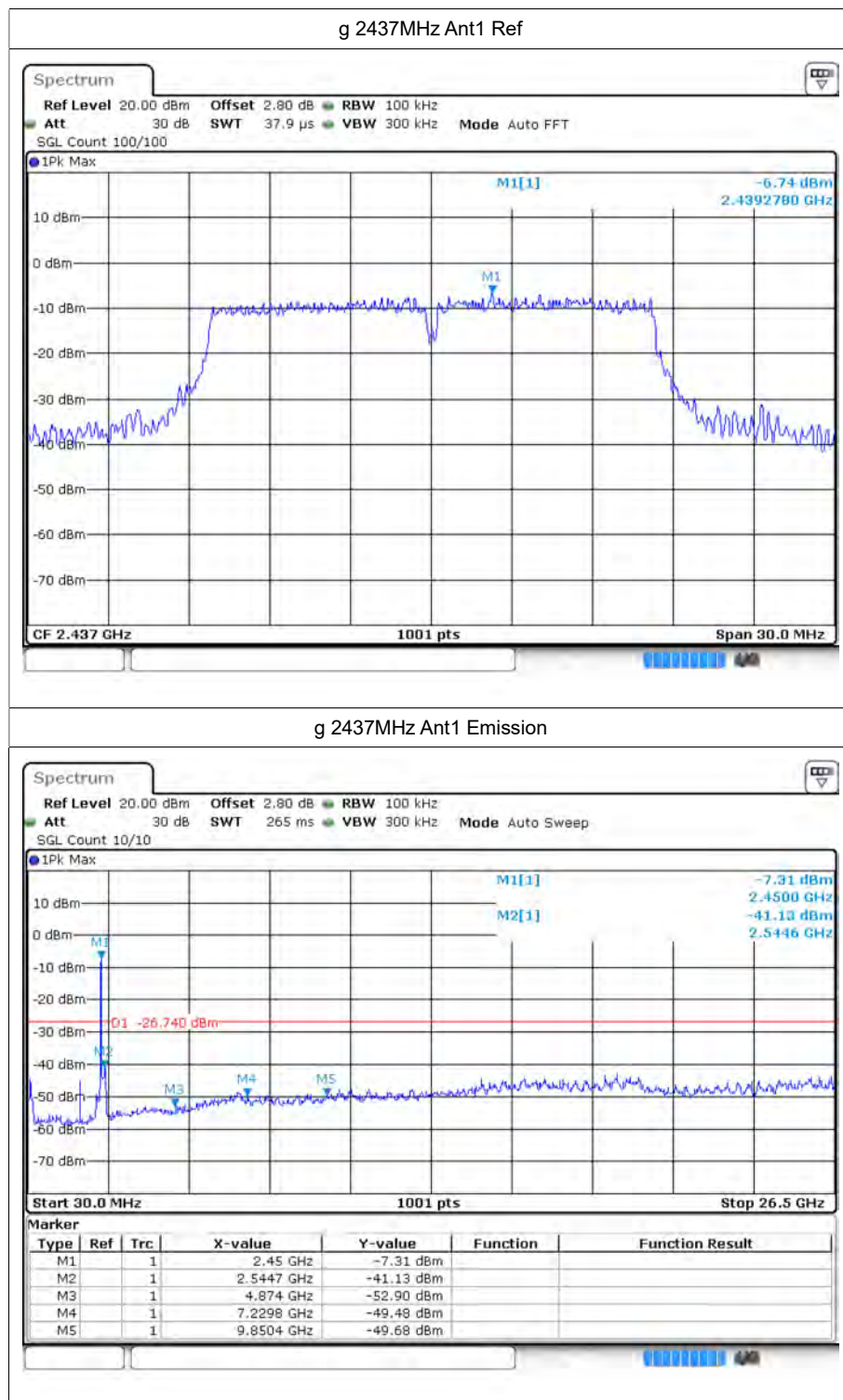
6.2 Test Graphs

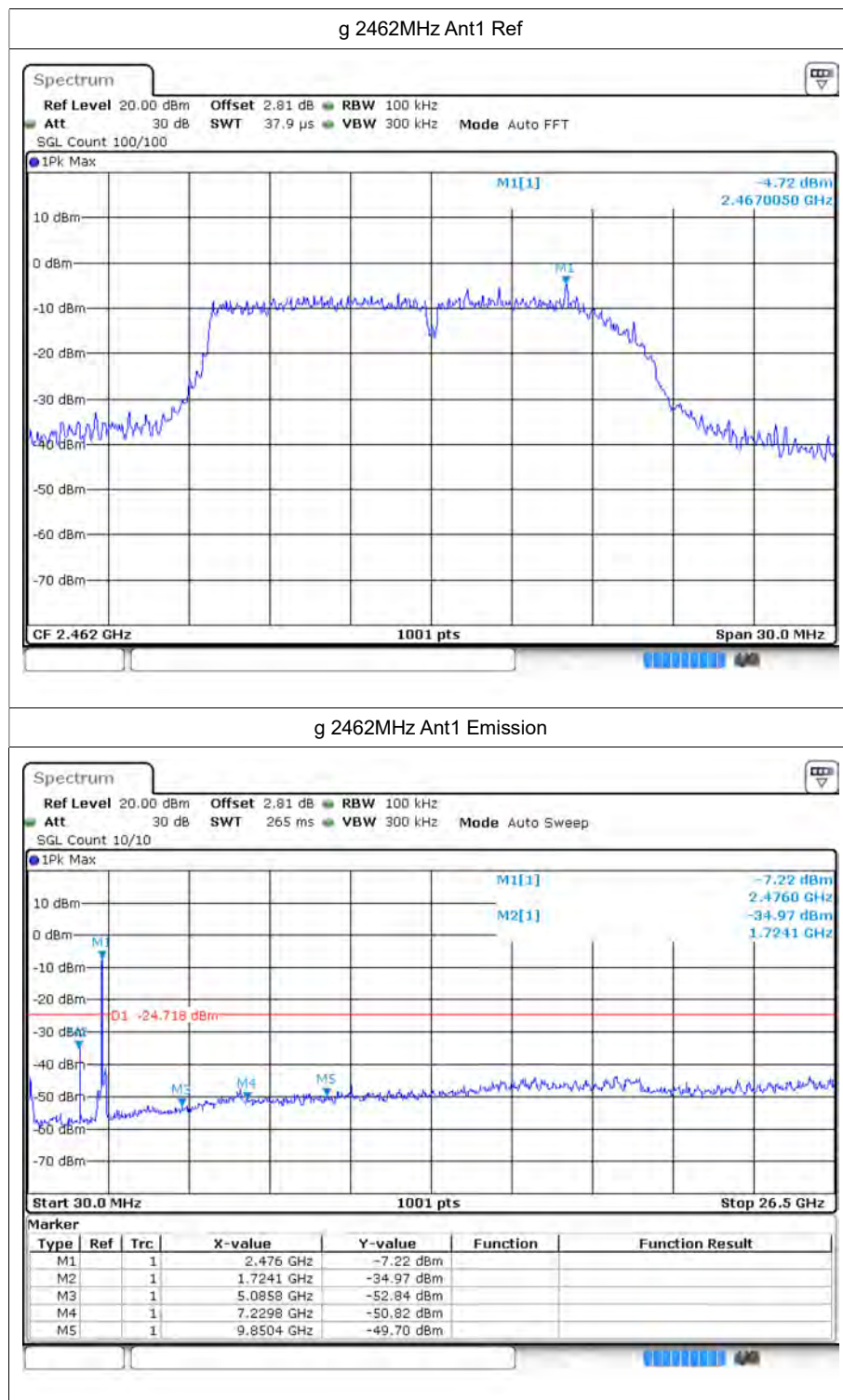


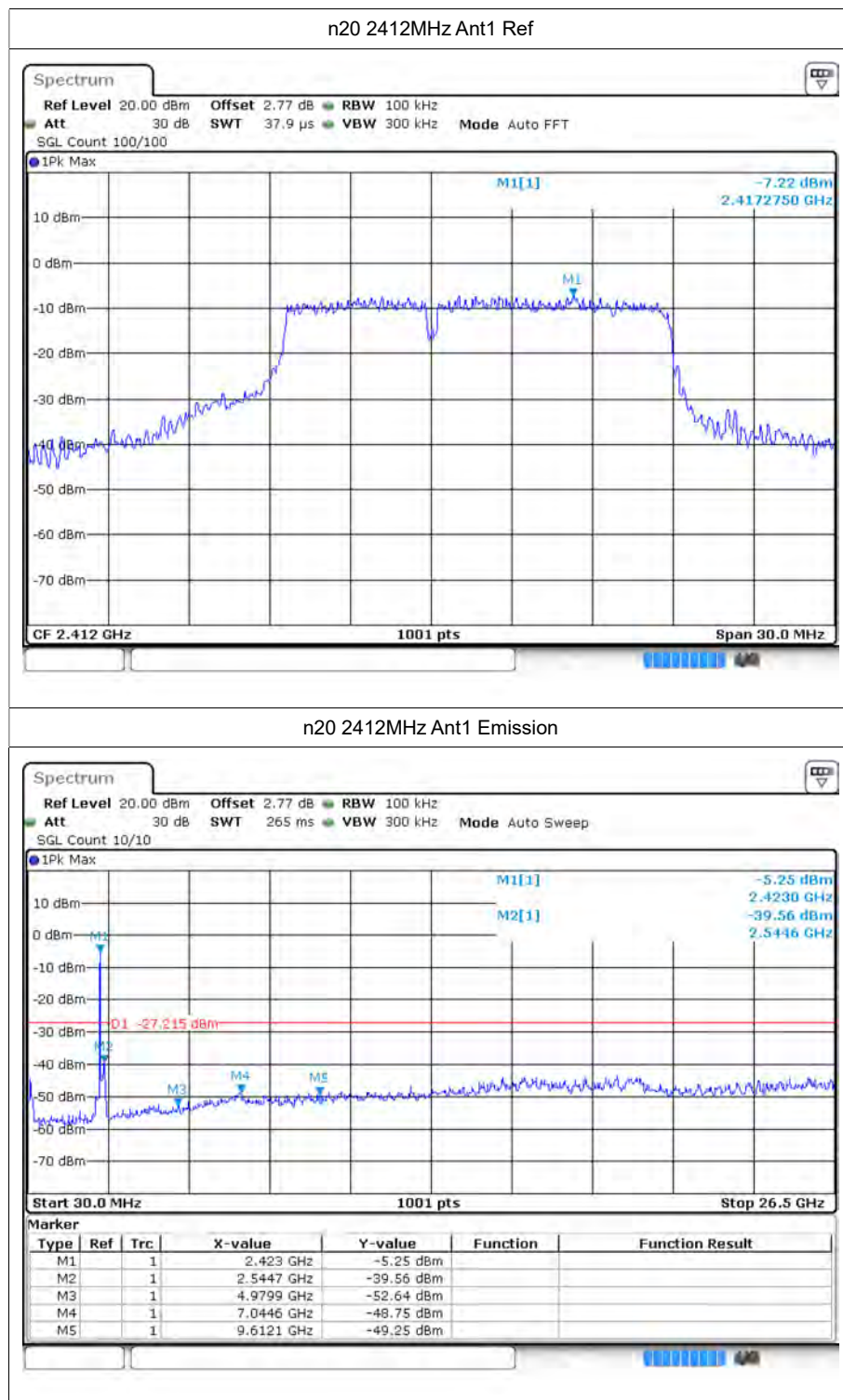


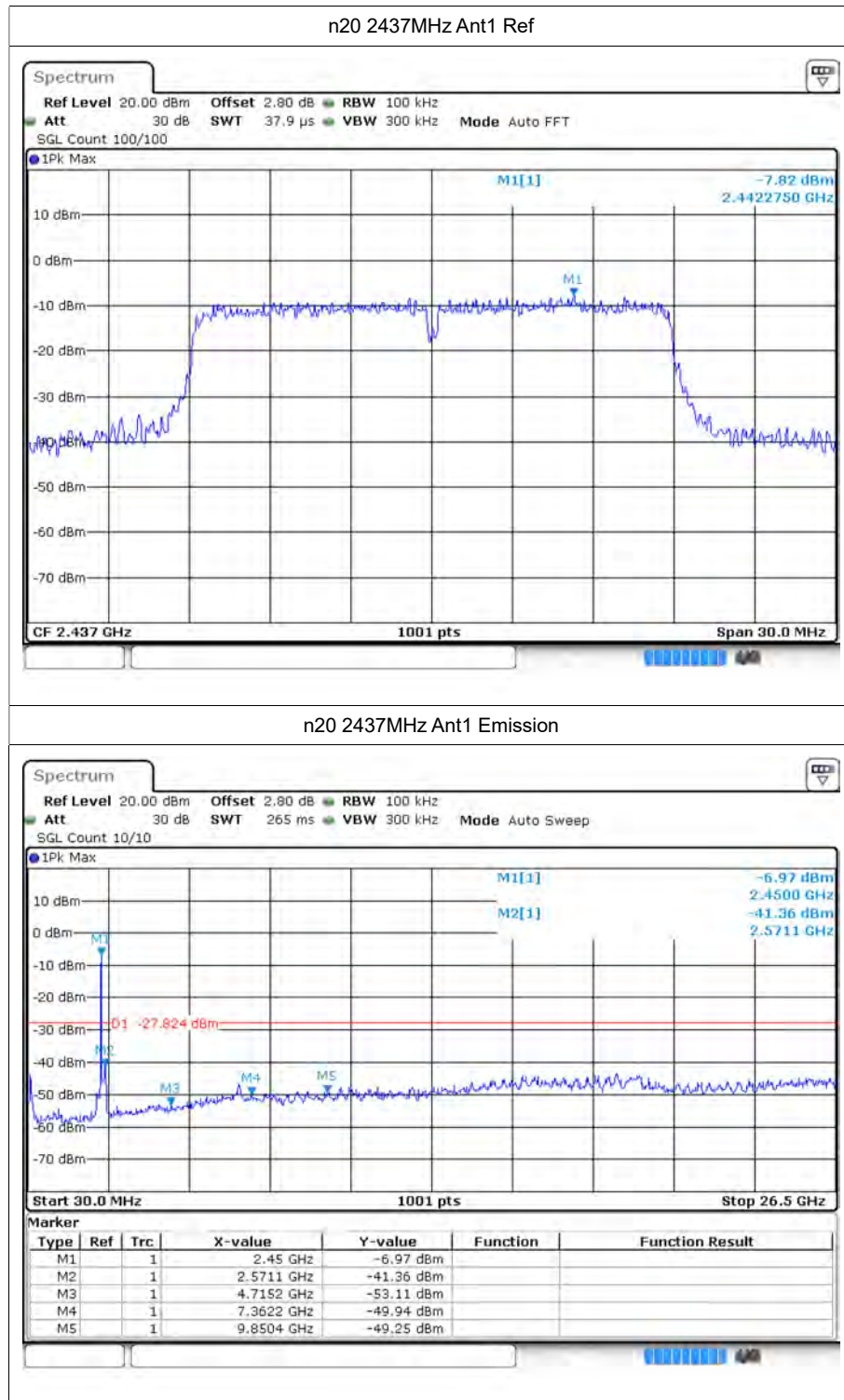


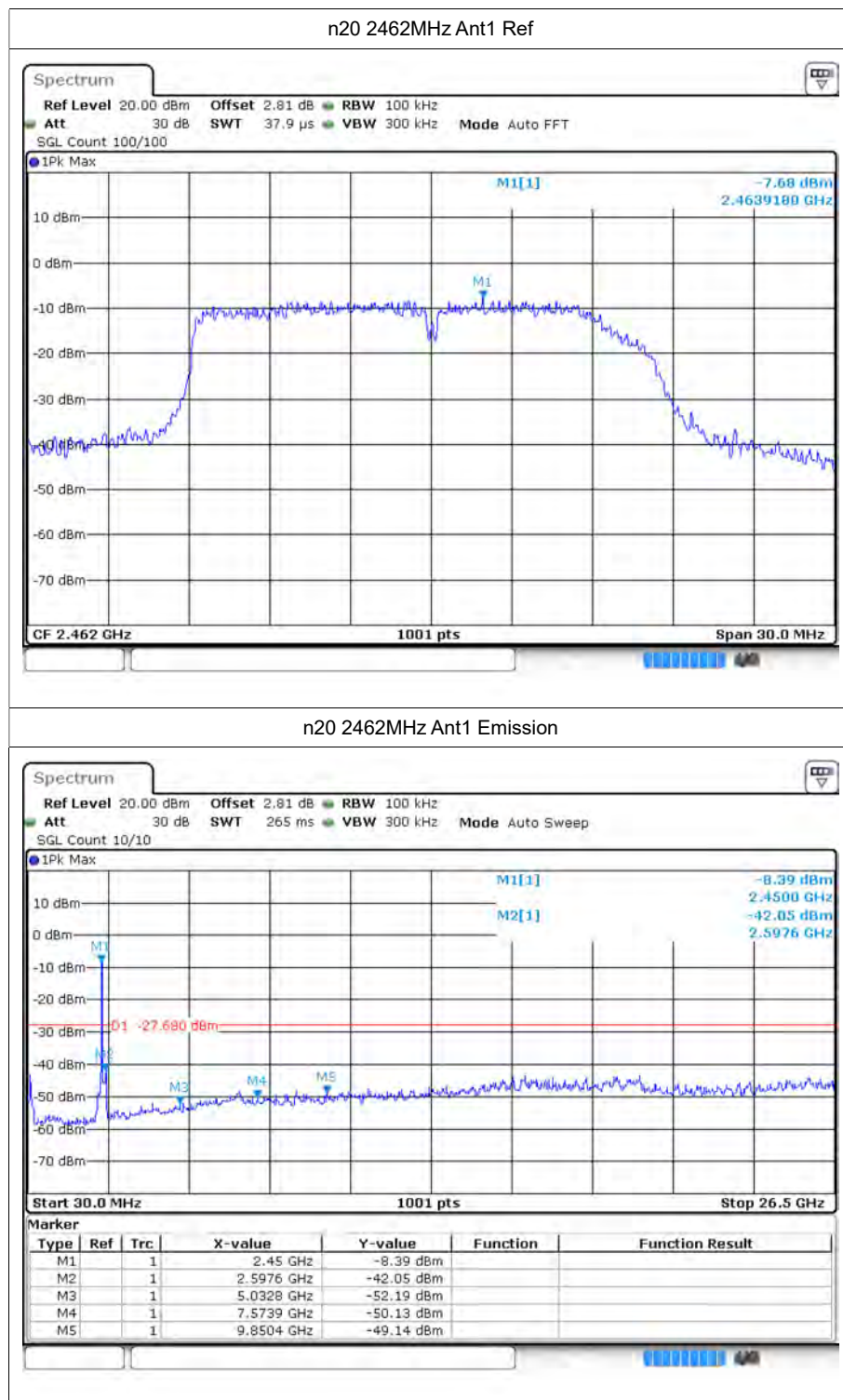














7 Restrict Band

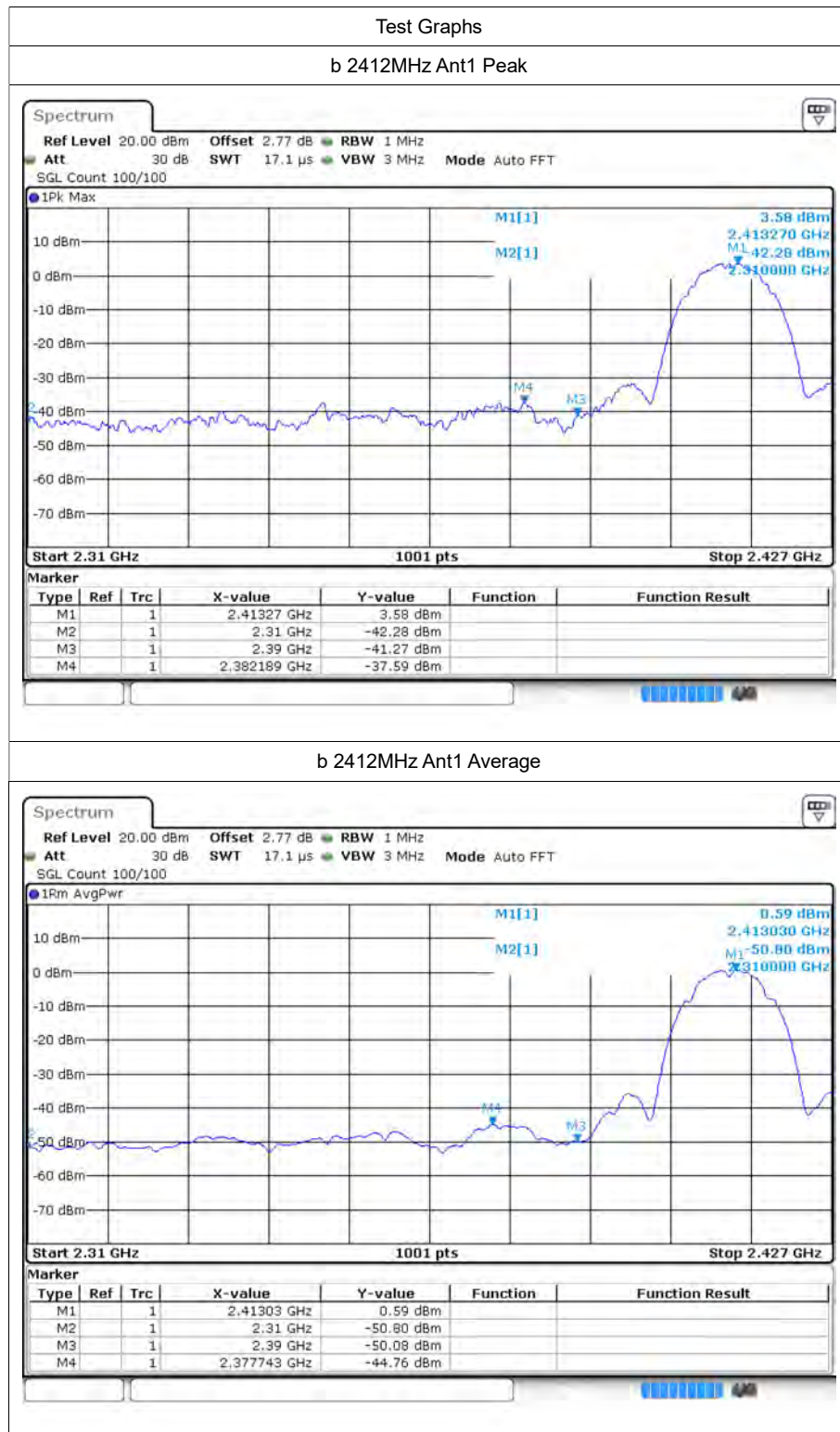
7.1 Test Result

Mod e	Frequency (MHz)	Antenn a	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor	E (dBuV/m)	Detecto r	Limit (dBuV/m)	Verdic t
b	2412	Ant1	2310	-42.28	3.08	-	56.03	Peak	74	Pass
b	2412	Ant1	2310	-50.8	3.08	0	47.51	Average	54	Pass
b	2412	Ant1	2382.189	-37.59	3.08	-	60.72	Peak	74	Pass
b	2412	Ant1	2377.743	-44.76	3.08	0	53.55	Average	54	Pass
b	2412	Ant1	2390	-41.27	3.08	-	57.04	Peak	74	Pass
b	2412	Ant1	2390	-50.08	3.08	0	48.23	Average	54	Pass
b	2462	Ant1	2483.5	-40.97	3.08	-	57.34	Peak	74	Pass
b	2462	Ant1	2483.5	-48.81	3.08	0	49.5	Average	54	Pass
b	2462	Ant1	2493.375	-36.09	3.08	-	62.22	Peak	74	Pass
b	2462	Ant1	2494.435	-43.42	3.08	0	54.89	Average	54	Pass
b	2462	Ant1	2500	-37.24	3.08	-	61.07	Peak	74	Pass
b	2462	Ant1	2500	-46.19	3.08	0	52.12	Average	54	Pass
g	2412	Ant1	2310	-42.83	3.08	-	55.48	Peak	74	Pass
g	2412	Ant1	2310	-49.77	3.08	0	48.54	Average	54	Pass
g	2412	Ant1	2382.189	-35.18	3.08	-	63.13	Peak	74	Pass
g	2412	Ant1	2377.626	-45.4	3.08	0	52.91	Average	54	Pass
g	2412	Ant1	2390	-40.99	3.08	-	57.32	Peak	74	Pass
g	2412	Ant1	2390	-48.76	3.08	0	49.55	Average	54	Pass
g	2462	Ant1	2483.5	-39.96	3.08	-	58.35	Peak	74	Pass
g	2462	Ant1	2483.5	-46.86	3.08	0	51.45	Average	54	Pass
g	2462	Ant1	2493.375	-33.11	3.08	-	65.2	Peak	74	Pass
g	2462	Ant1	2500	-43.69	3.08	0	54.62	Average	54	Pass
g	2462	Ant1	2500	-33.11	3.08	-	65.2	Peak	74	Pass
g	2462	Ant1	2500	-43.7	3.08	0	54.61	Average	54	Pass
n20	2412	Ant1	2310	-41.96	3.08	-	56.35	Peak	74	Pass
n20	2412	Ant1	2310	-51.75	3.08	0	46.56	Average	54	Pass
n20	2412	Ant1	2377.86	-36.53	3.08	-	61.78	Peak	74	Pass
n20	2412	Ant1	2374.584	-46.68	3.08	0	51.63	Average	54	Pass
n20	2412	Ant1	2390	-43.28	3.08	-	55.03	Peak	74	Pass
n20	2412	Ant1	2390	-49.3	3.08	0	49.01	Average	54	Pass
n20	2462	Ant1	2483.5	-38.72	3.08	-	59.59	Peak	74	Pass
n20	2462	Ant1	2483.5	-47.5	3.08	0	50.81	Average	54	Pass
n20	2462	Ant1	2498.251	-33.6	3.08	-	64.71	Peak	74	Pass
n20	2462	Ant1	2495.071	-44.84	3.08	0	53.47	Average	54	Pass

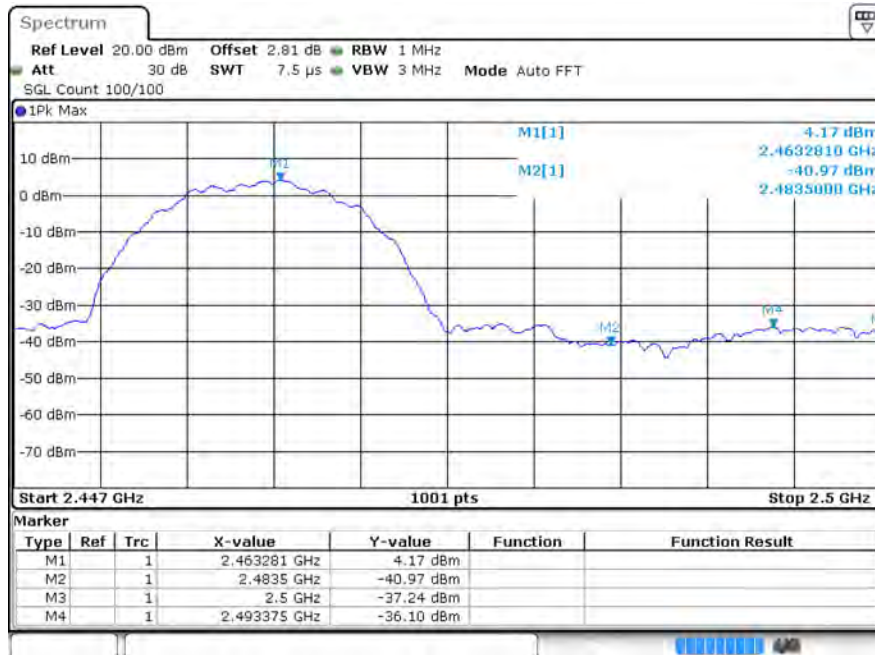


n20	2462	Ant1	2500	-36.2	3.08	-	62.11	Peak	74	Pass
n20	2462	Ant1	2500	-45.6	3.08	0	52.71	Average	54	Pass

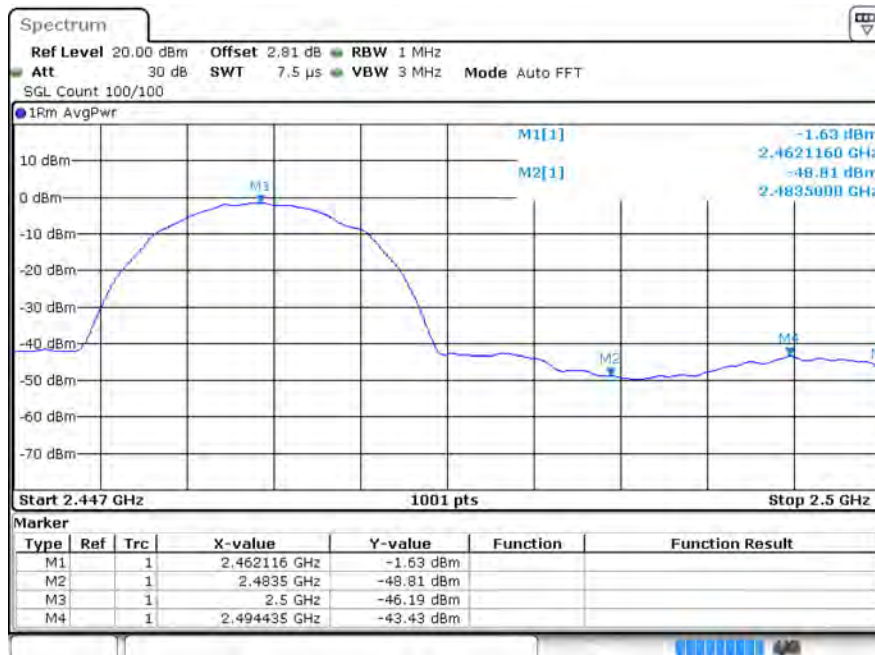
7.2 Test Graphs



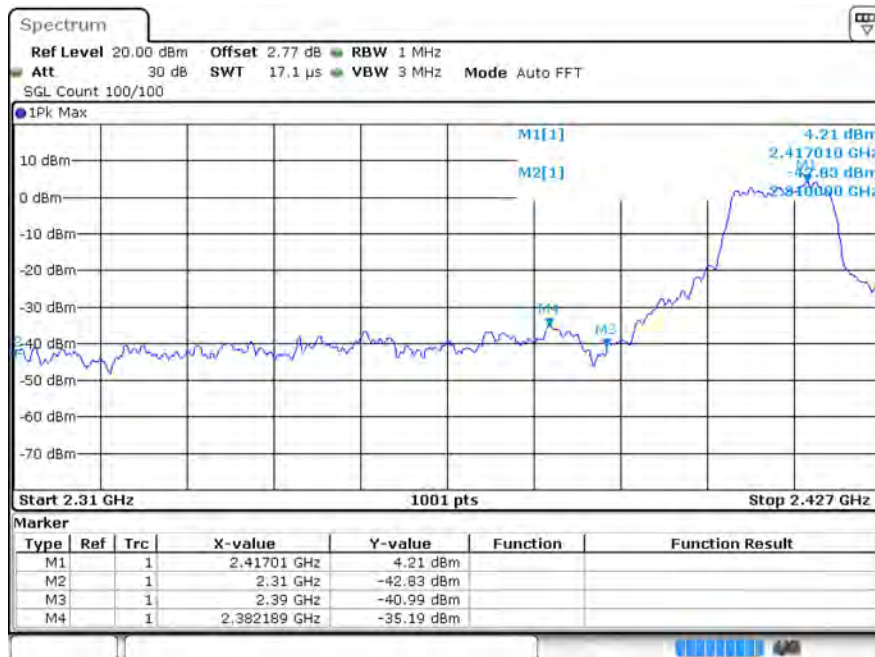
b 2462MHz Ant1 Peak



b 2462MHz Ant1 Average



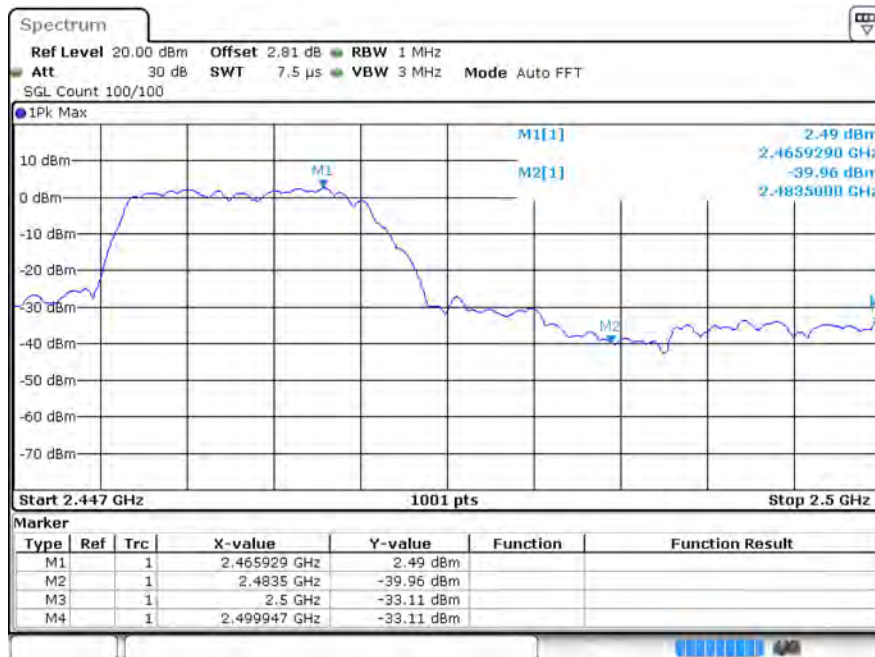
g 2412MHz Ant1 Peak



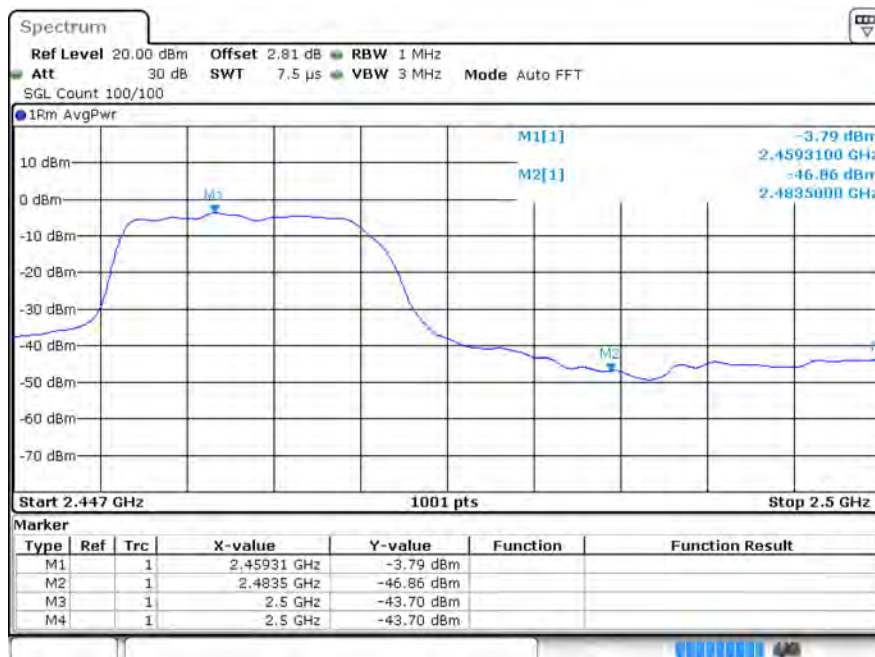
g 2412MHz Ant1 Average

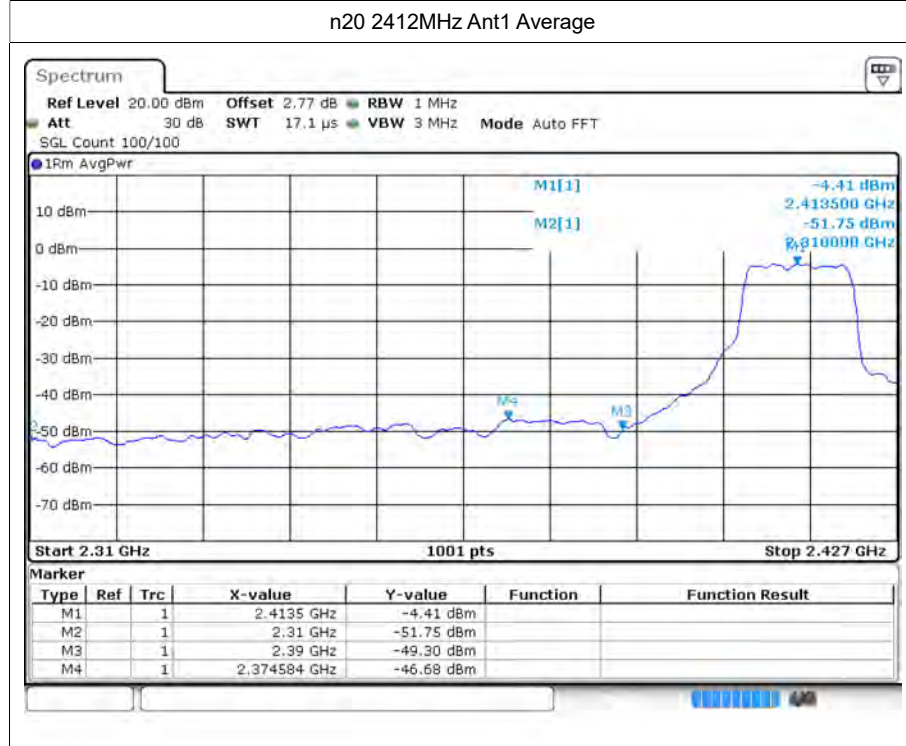
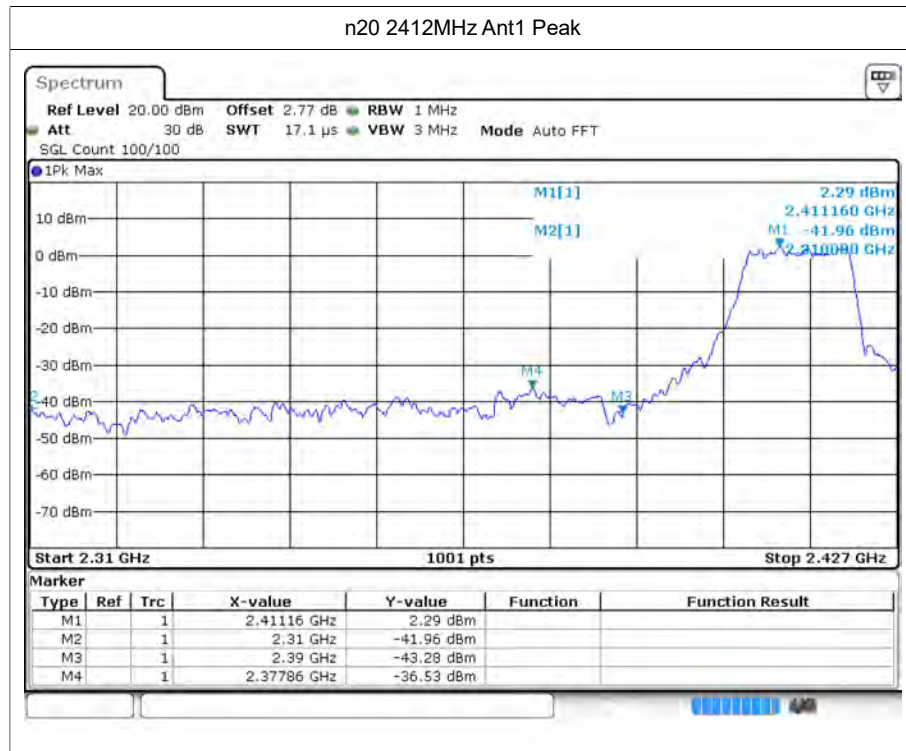


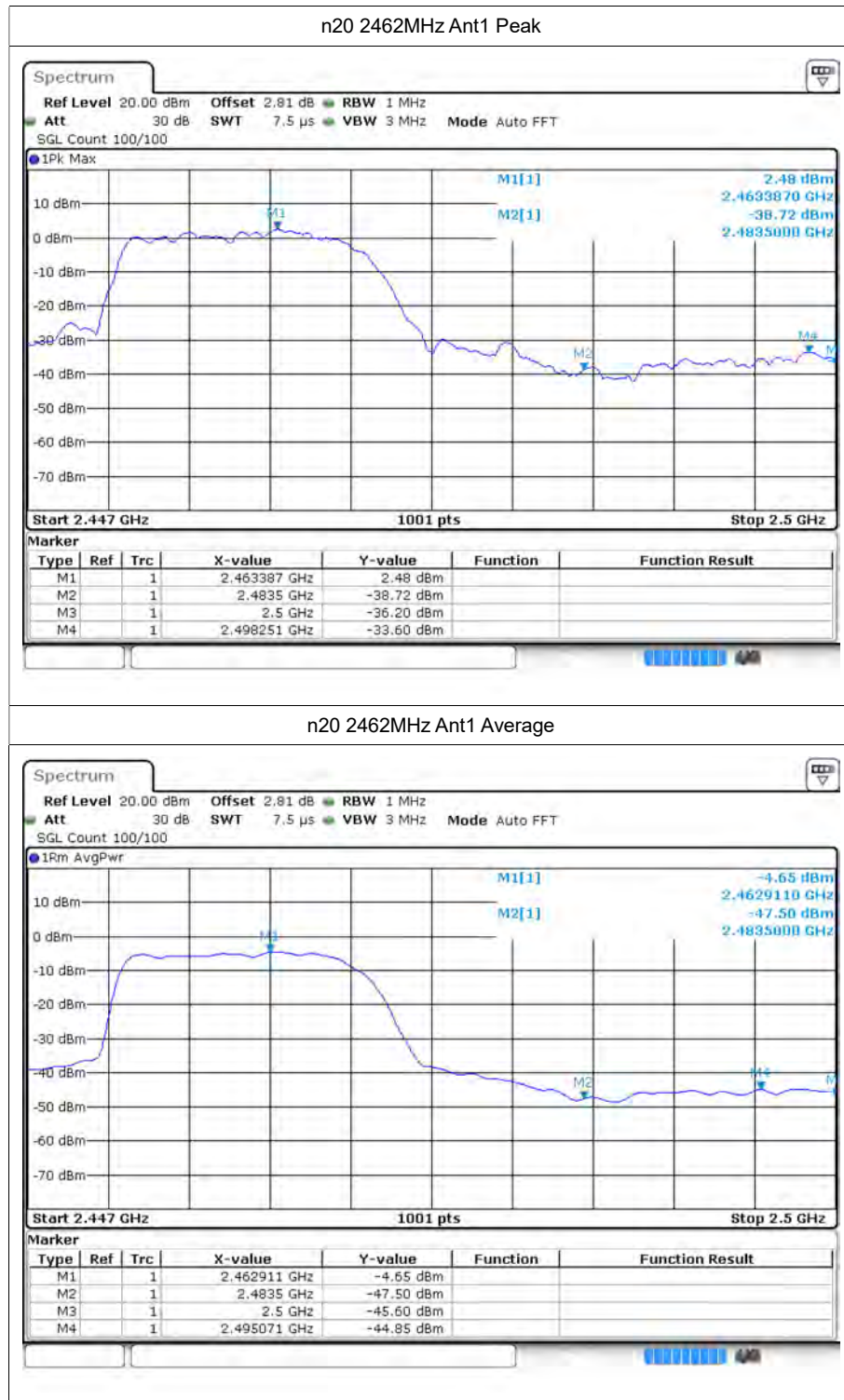
g 2462MHz Ant1 Peak



g 2462MHz Ant1 Average







---The End---