



Appendix C

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: Dash Camera

Trade Mark: N/A

Test Model: FC70

Environmental Conditions

Temperature:	24.6° 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

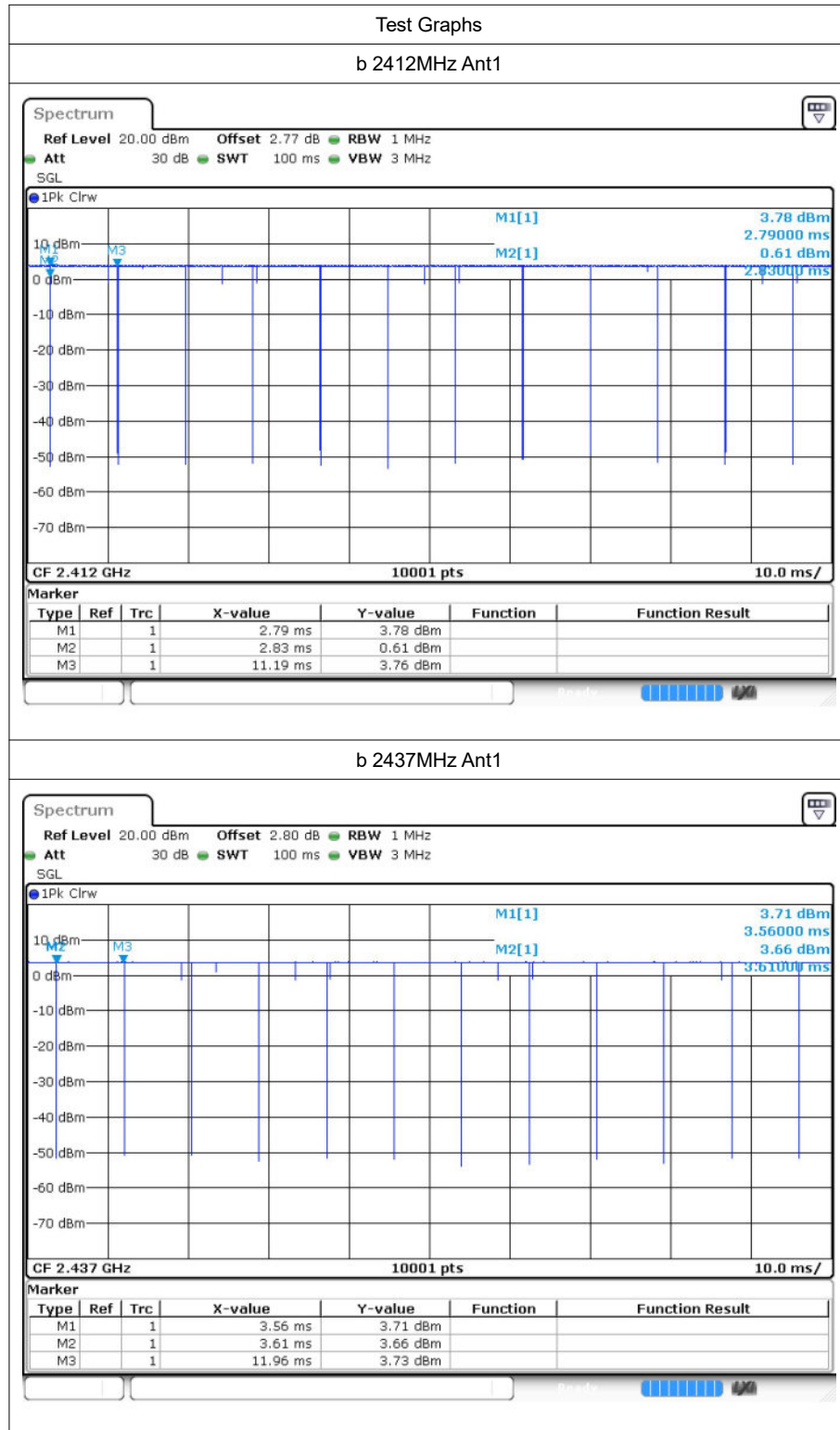


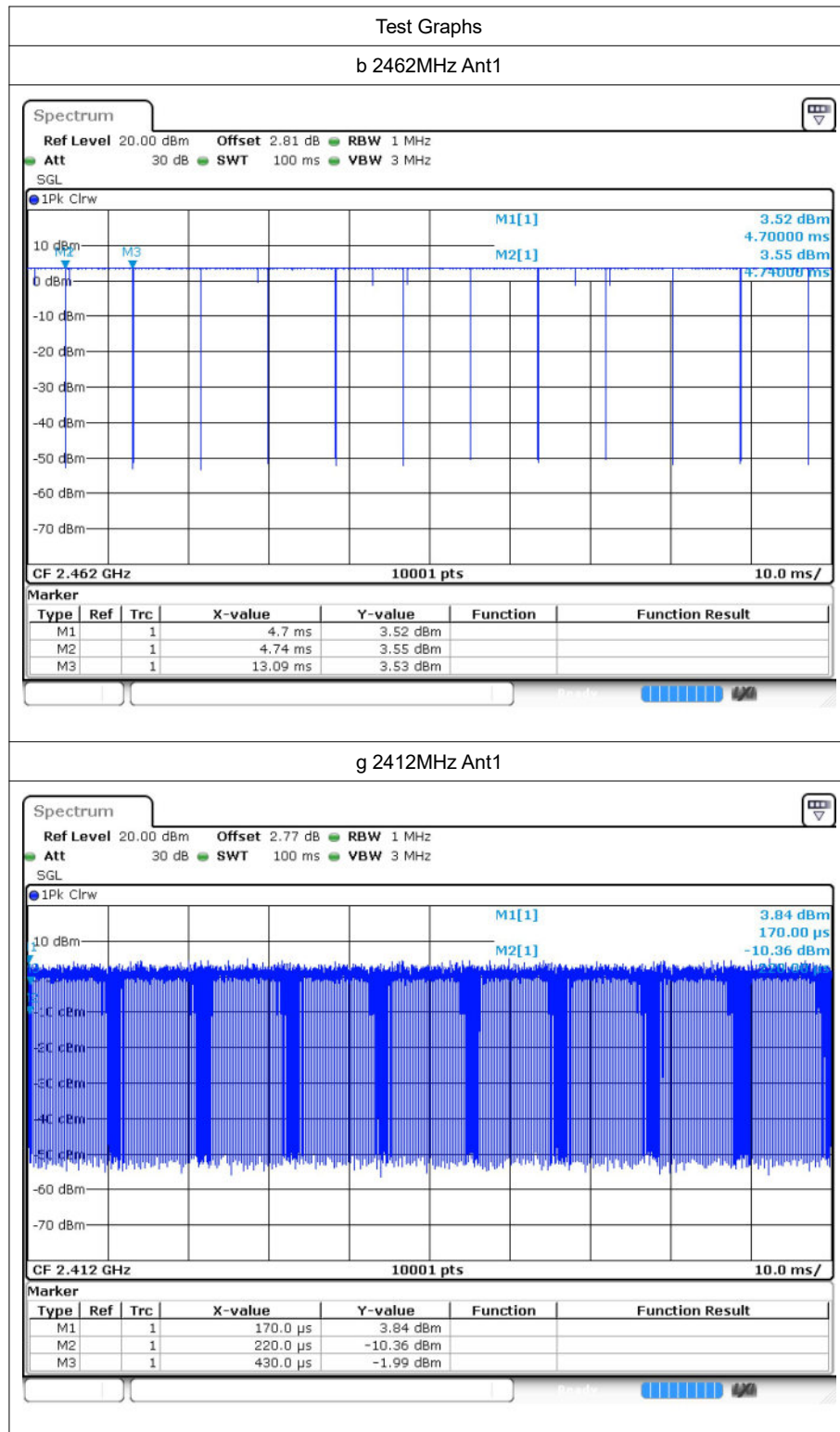
1 Duty Cycle

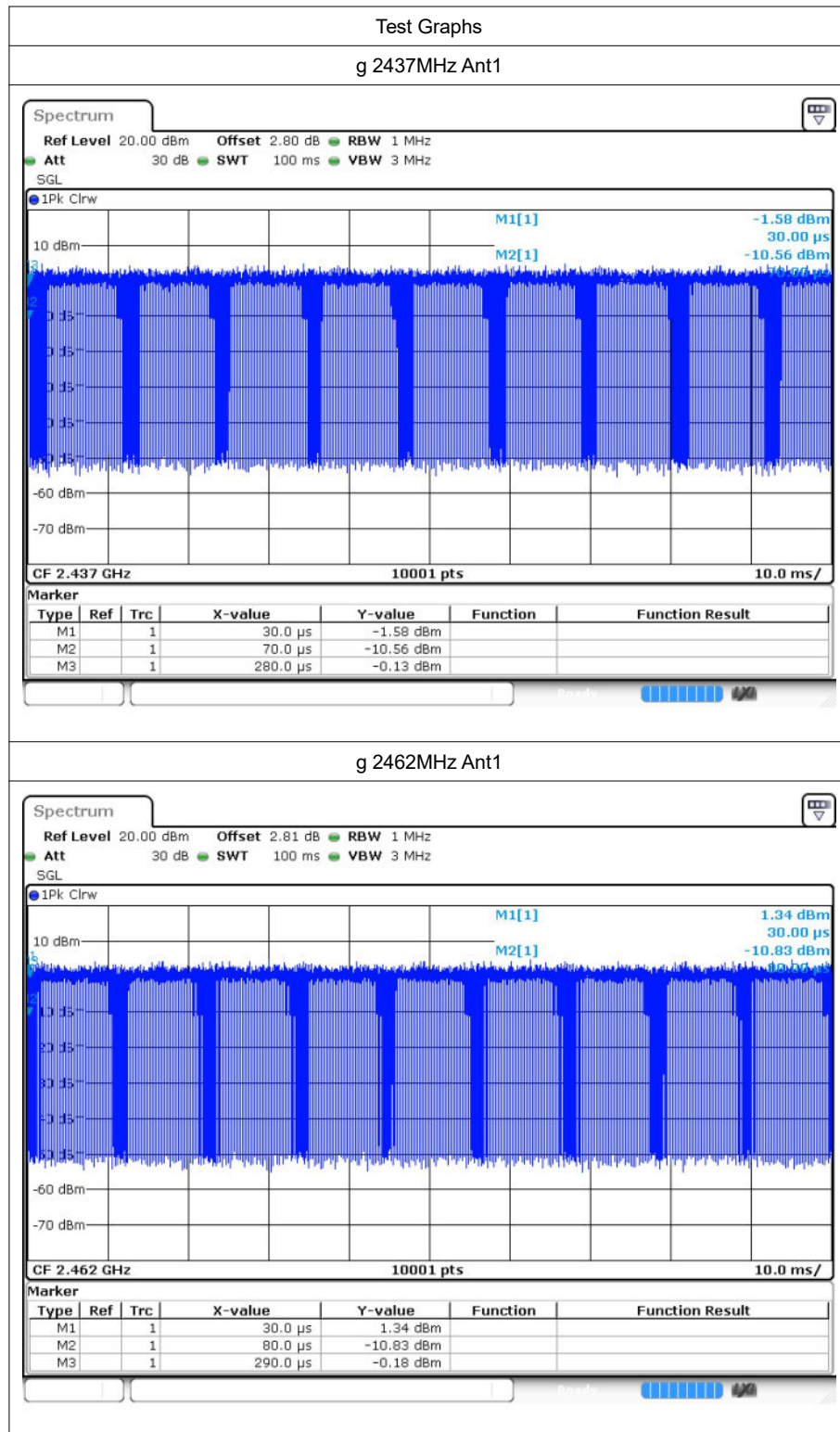
1.1 Test Result

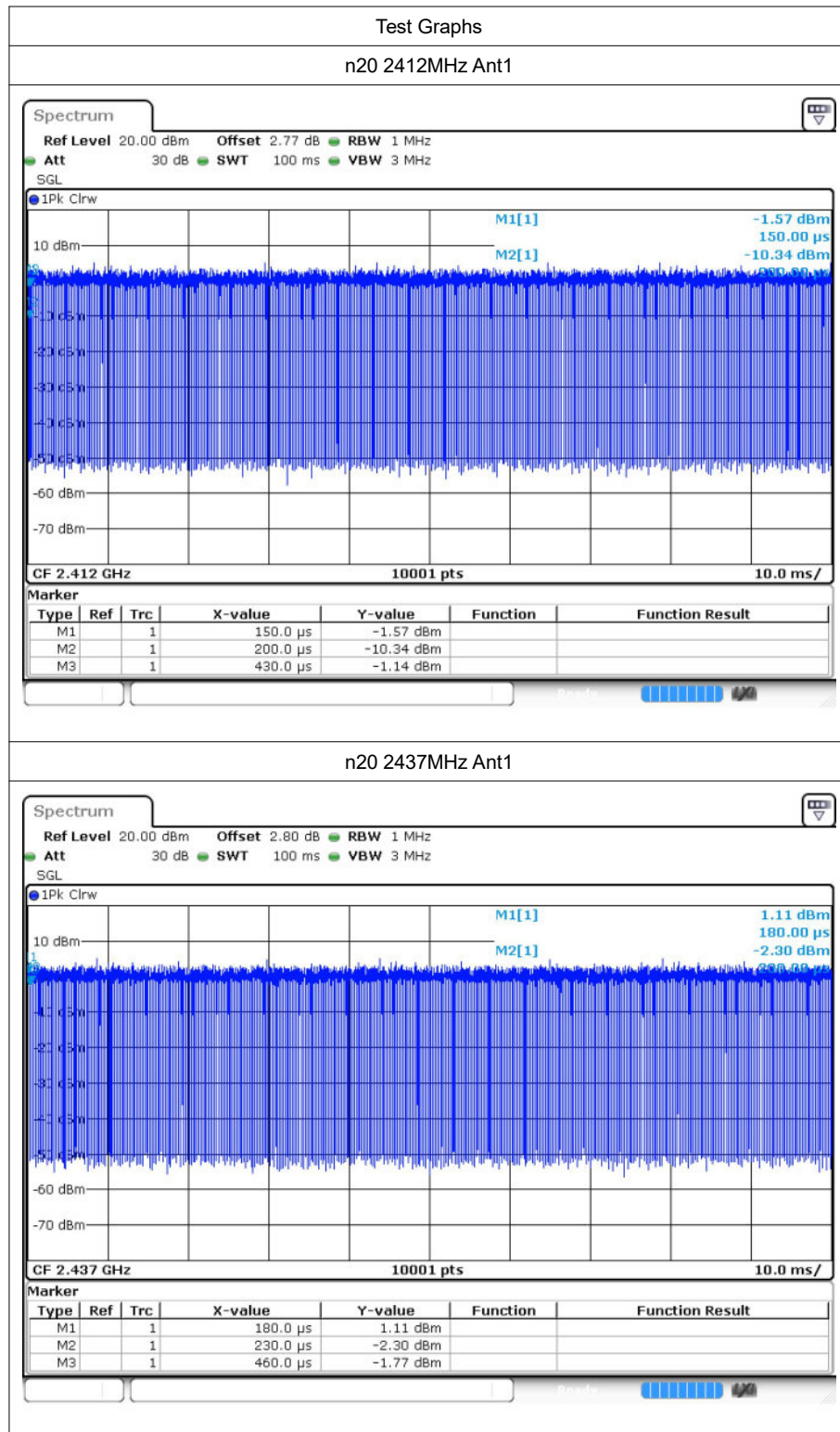
Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor	1/T (kHz)
b	2412	Ant1	99.6	0.02	0.12
b	2437	Ant1	99.59	0.02	0.12
b	2462	Ant1	99.6	0.02	0.12
g	2412	Ant1	86.88	0.61	4.76
g	2437	Ant1	86.91	0.61	4.76
g	2462	Ant1	86.84	0.61	4.76
n20	2412	Ant1	87.57	0.58	4.35
n20	2437	Ant1	87.61	0.57	4.35
n20	2462	Ant1	87.6	0.57	4.35

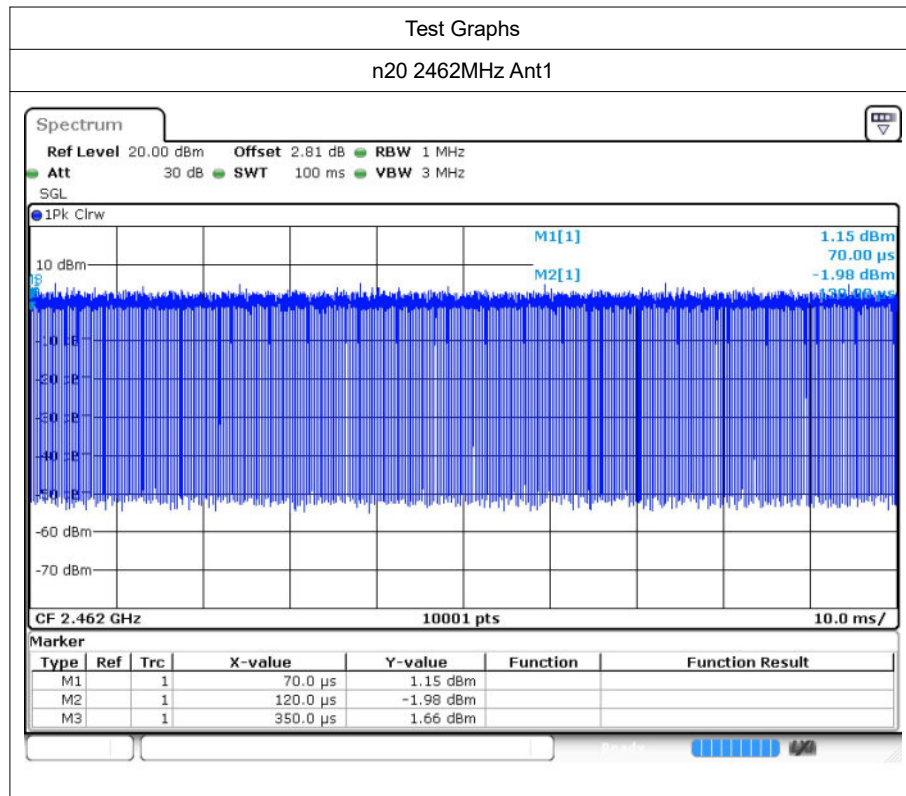
1.2 Test Graphs













2 Maximum Conducted Output Power

2.1 Test Result

Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
b	2412	Ant1	14.21	30	Pass
b	2437	Ant1	14.15	30	Pass
b	2462	Ant1	14.02	30	Pass
g	2412	Ant1	14.16	30	Pass
g	2437	Ant1	14.04	30	Pass
g	2462	Ant1	13.92	30	Pass
n20	2412	Ant1	13.84	30	Pass
n20	2437	Ant1	13.9	30	Pass
n20	2462	Ant1	14	30	Pass

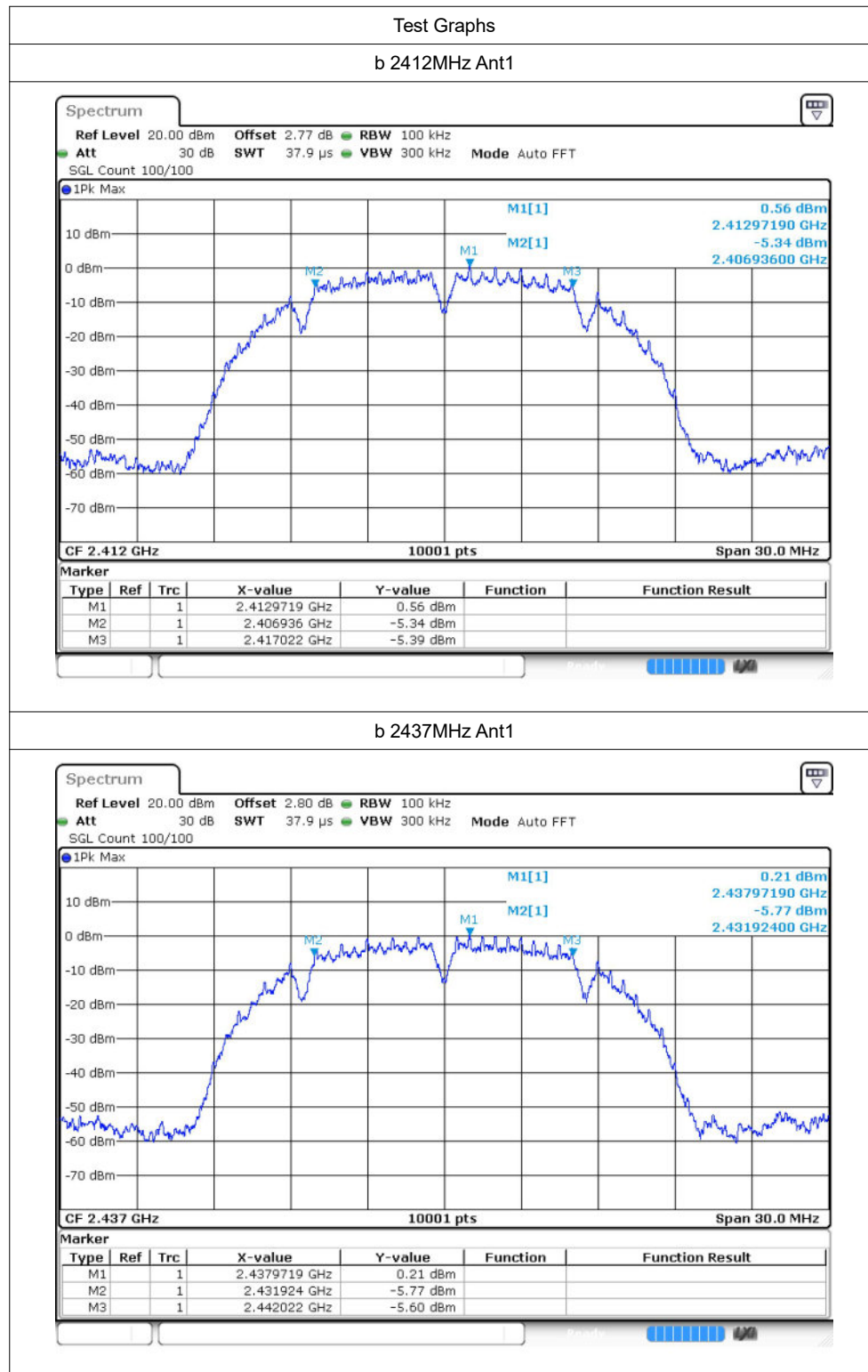


3 -6dB Bandwidth

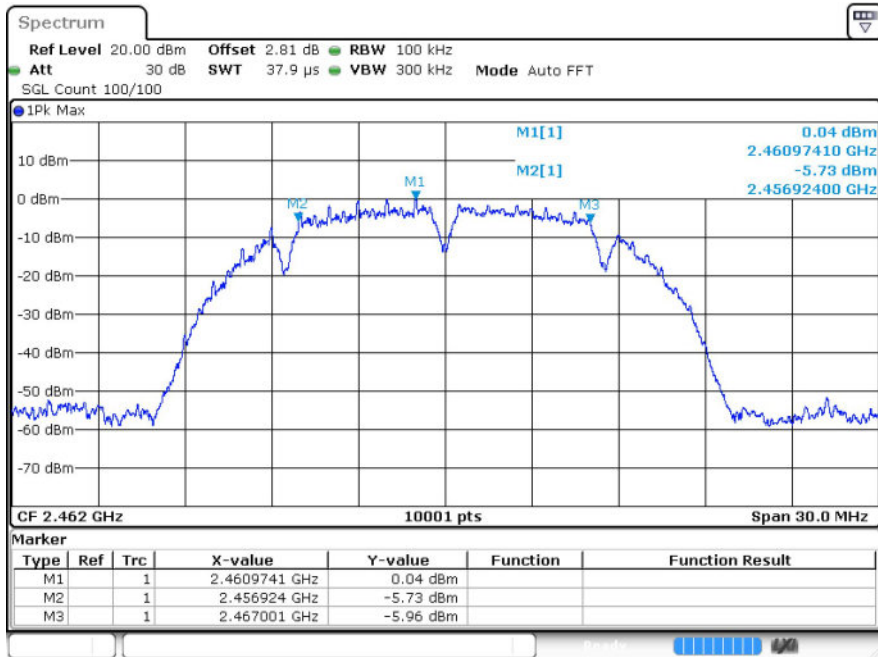
3.1 Test Result

Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
b	2412	Ant1	10.086	0.5	Pass
b	2437	Ant1	10.098	0.5	Pass
b	2462	Ant1	10.077	0.5	Pass
g	2412	Ant1	15.117	0.5	Pass
g	2437	Ant1	15.111	0.5	Pass
g	2462	Ant1	15.114	0.5	Pass
n20	2412	Ant1	15.114	0.5	Pass
n20	2437	Ant1	15.075	0.5	Pass
n20	2462	Ant1	12.954	0.5	Pass

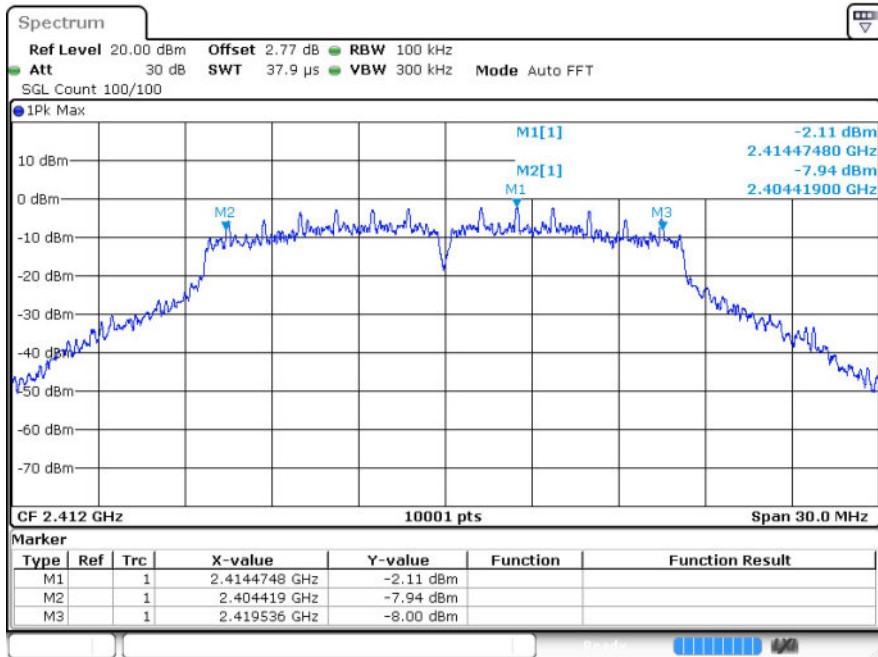
3.2 Test Graphs



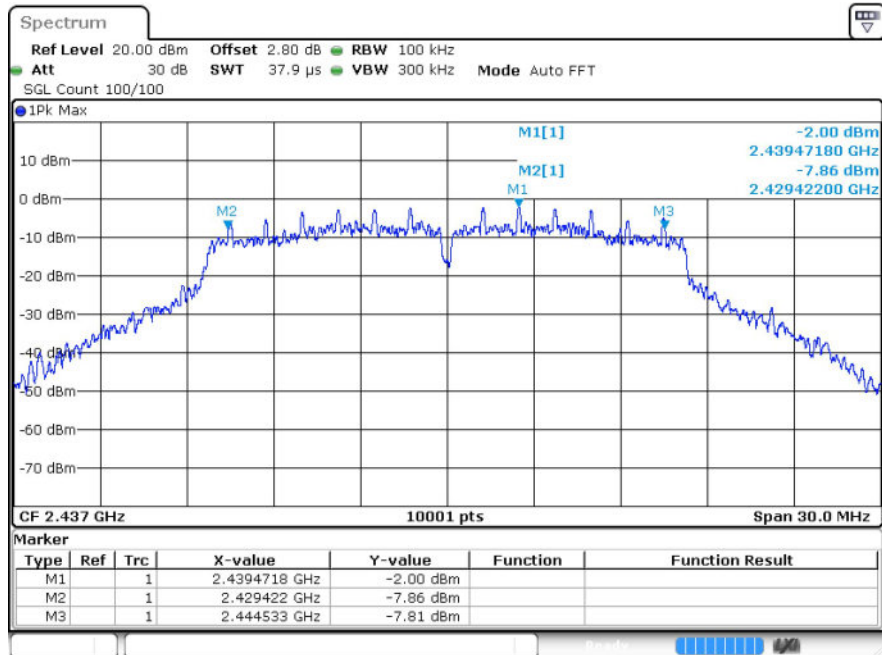
b 2462MHz Ant1



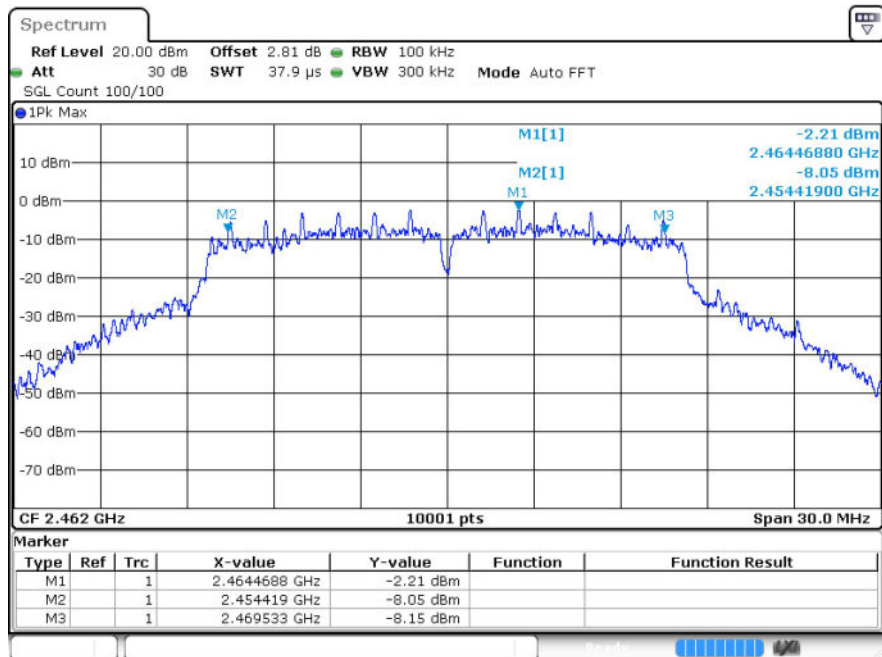
g 2412MHz Ant1

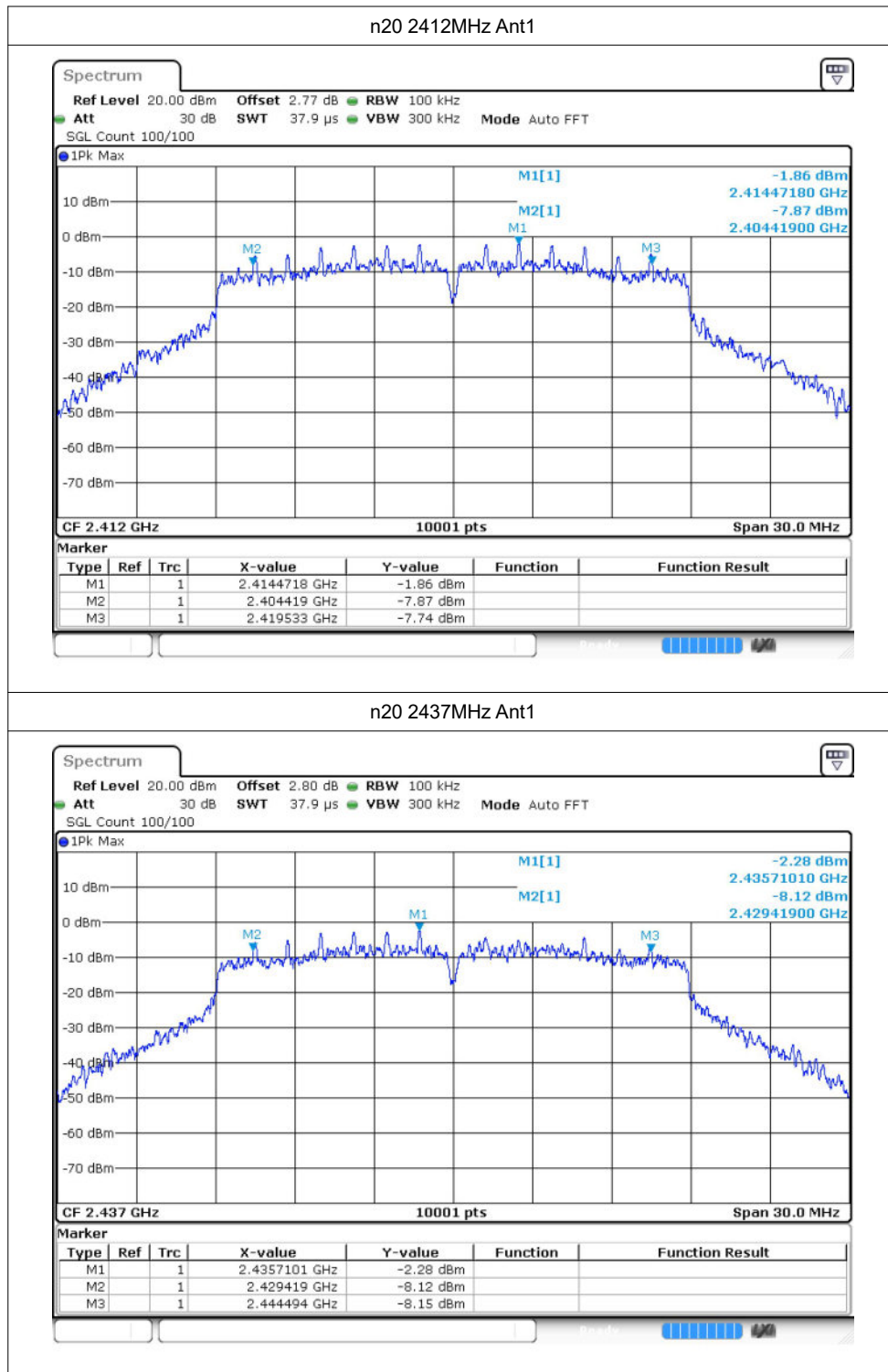


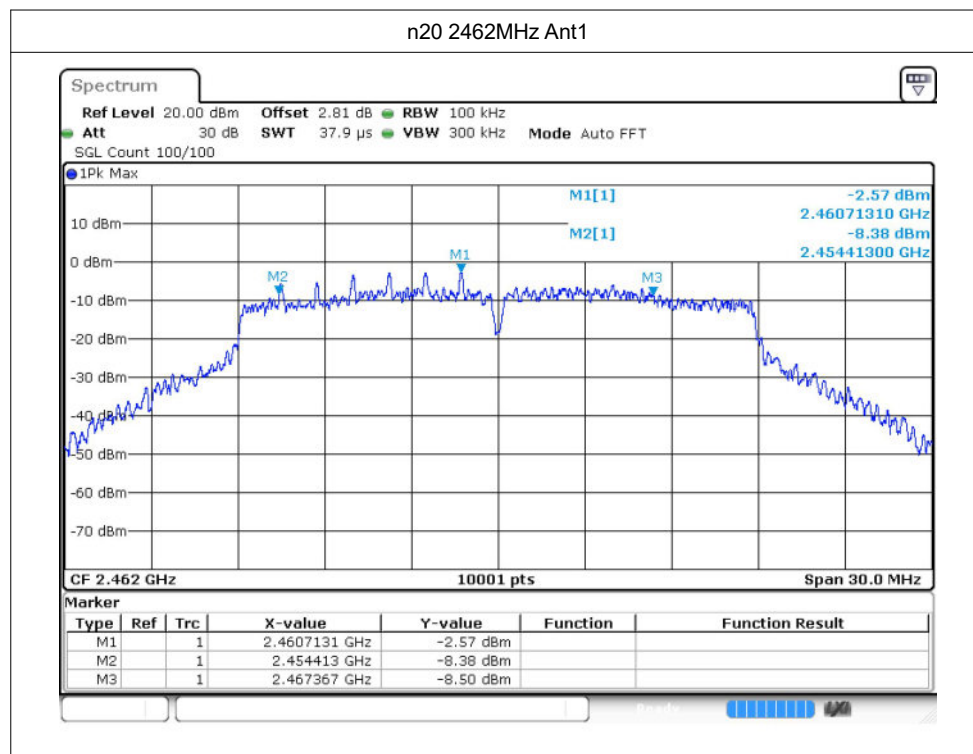
g 2437MHz Ant1



g 2462MHz Ant1





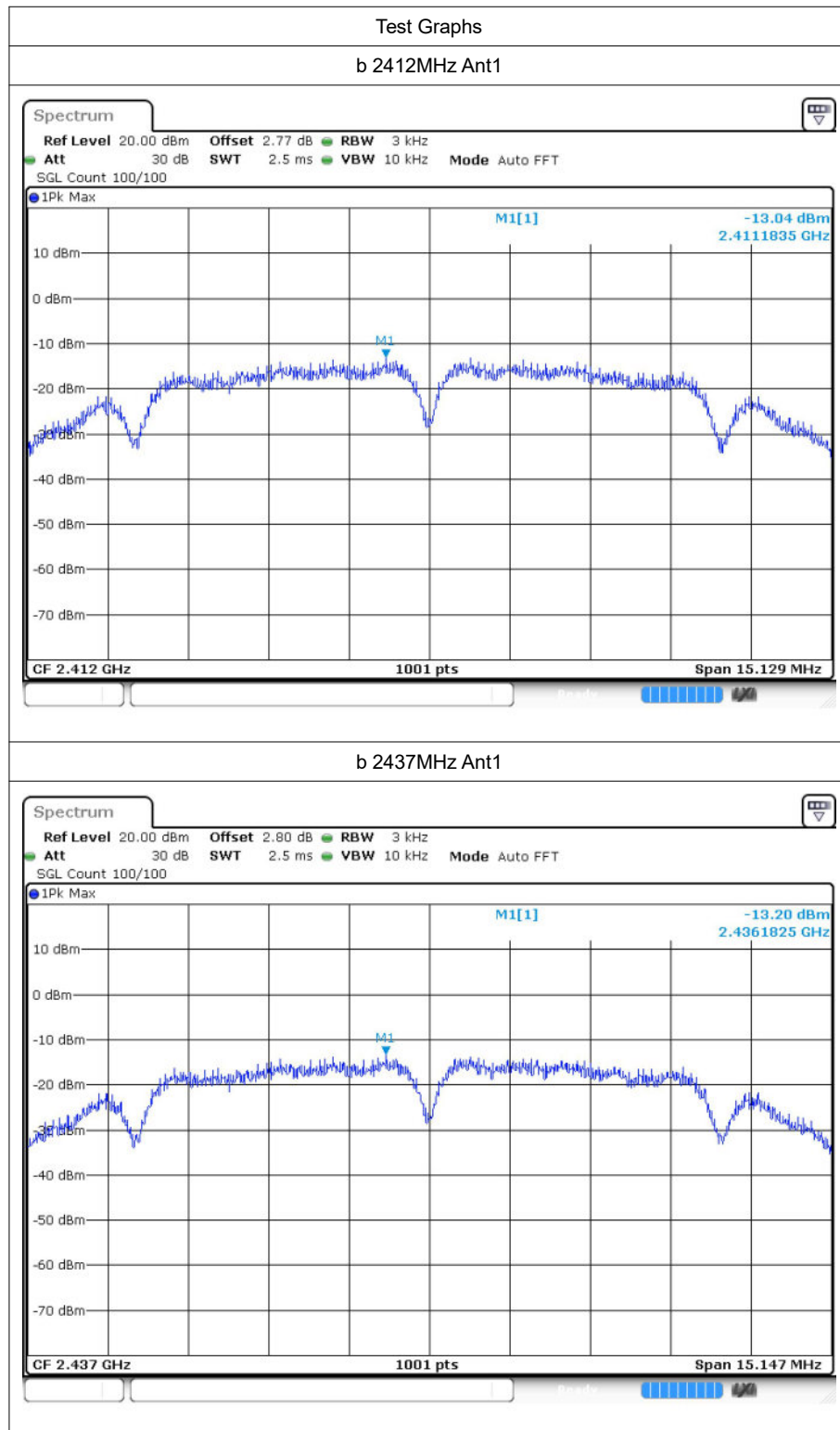


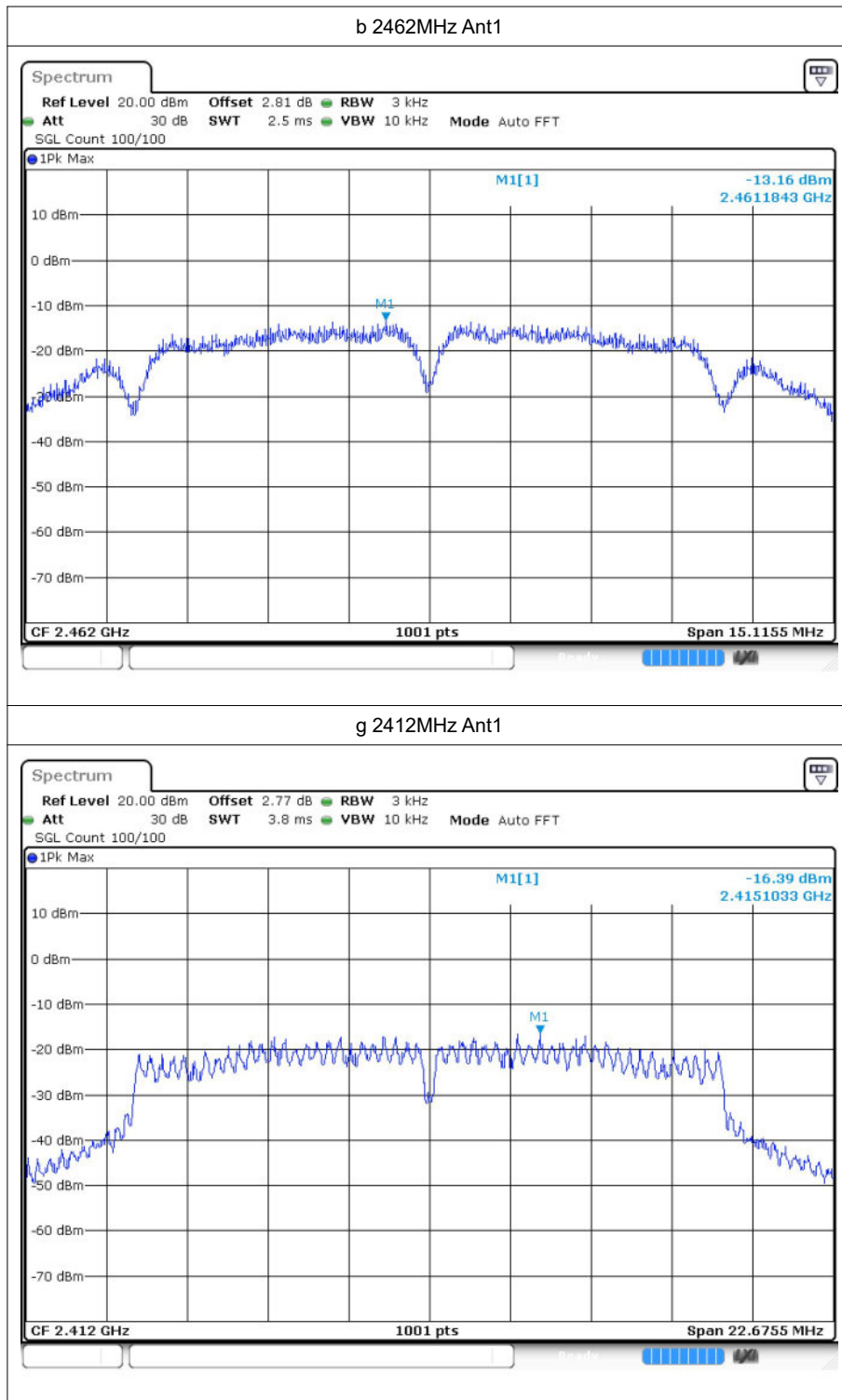
4 Maximum Power Spectral Density Level

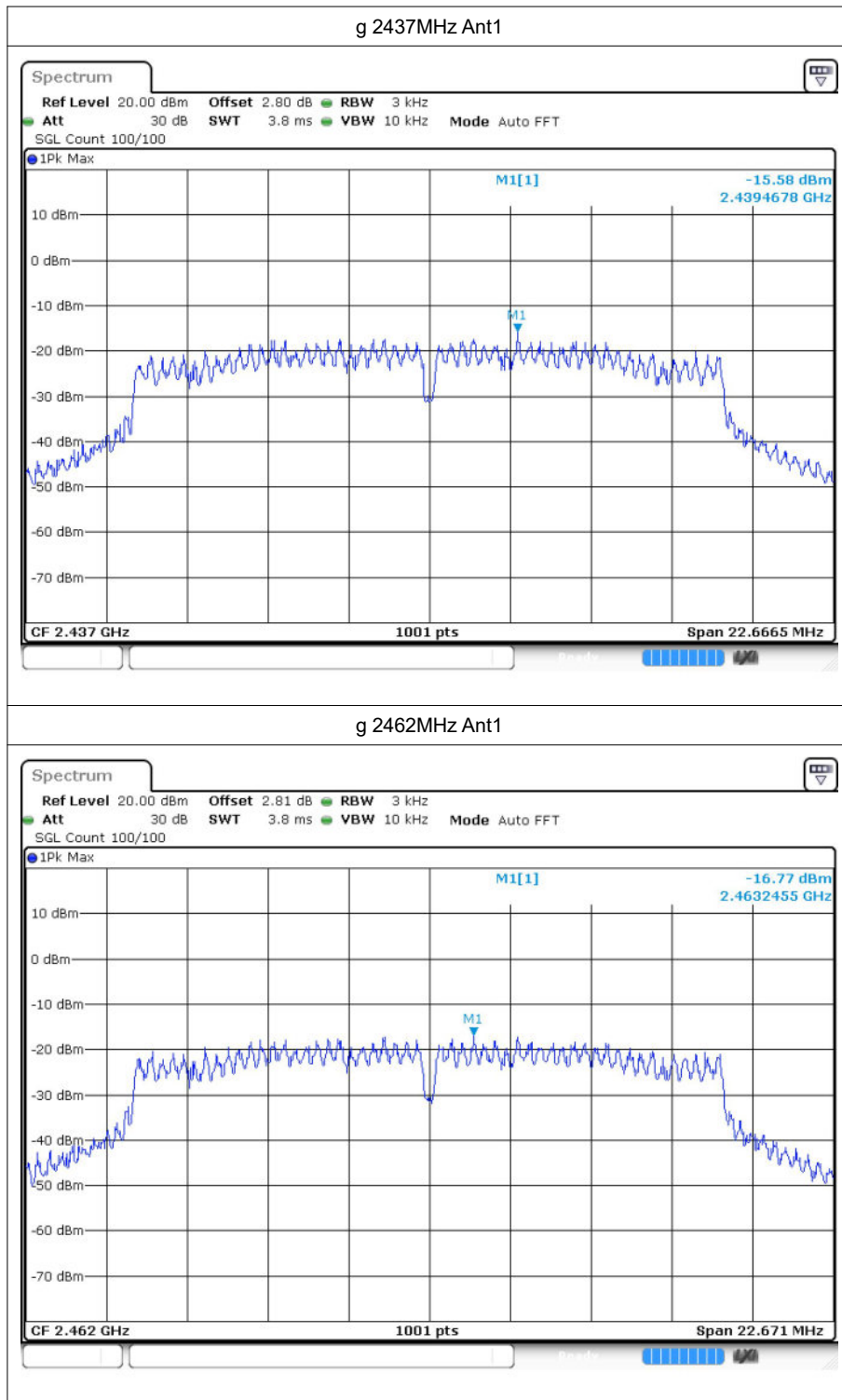
4.1 Test Result

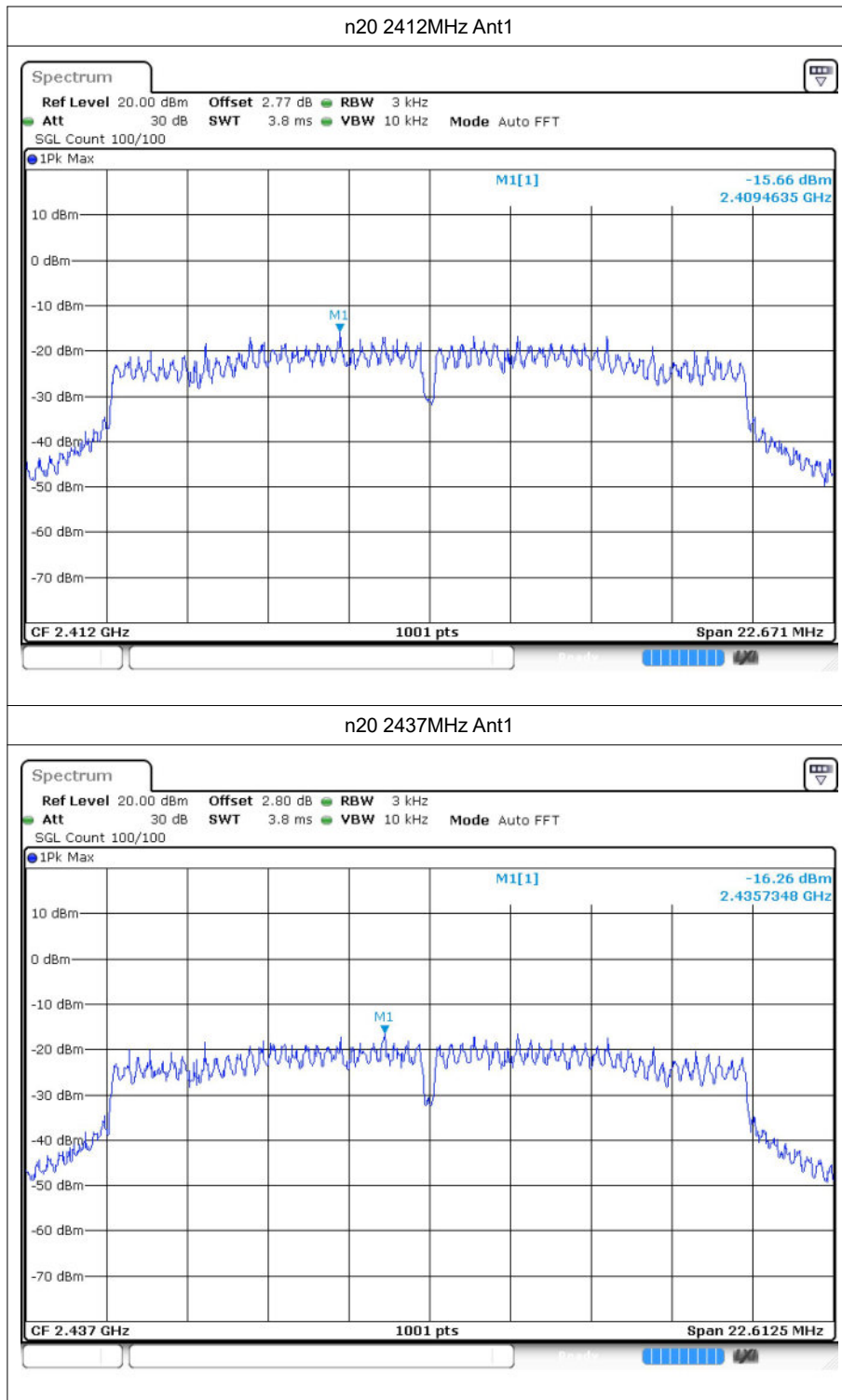
Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3-100kHz)	Limit (dBm/3kHz)	Verdict
b	2412	Ant1	-13.04	≤ 8	Pass
b	2437	Ant1	-13.2	≤ 8	Pass
b	2462	Ant1	-13.16	≤ 8	Pass
g	2412	Ant1	-16.39	≤ 8	Pass
g	2437	Ant1	-15.58	≤ 8	Pass
g	2462	Ant1	-16.77	≤ 8	Pass
n20	2412	Ant1	-15.66	≤ 8	Pass
n20	2437	Ant1	-16.26	≤ 8	Pass
n20	2462	Ant1	-16.75	≤ 8	Pass

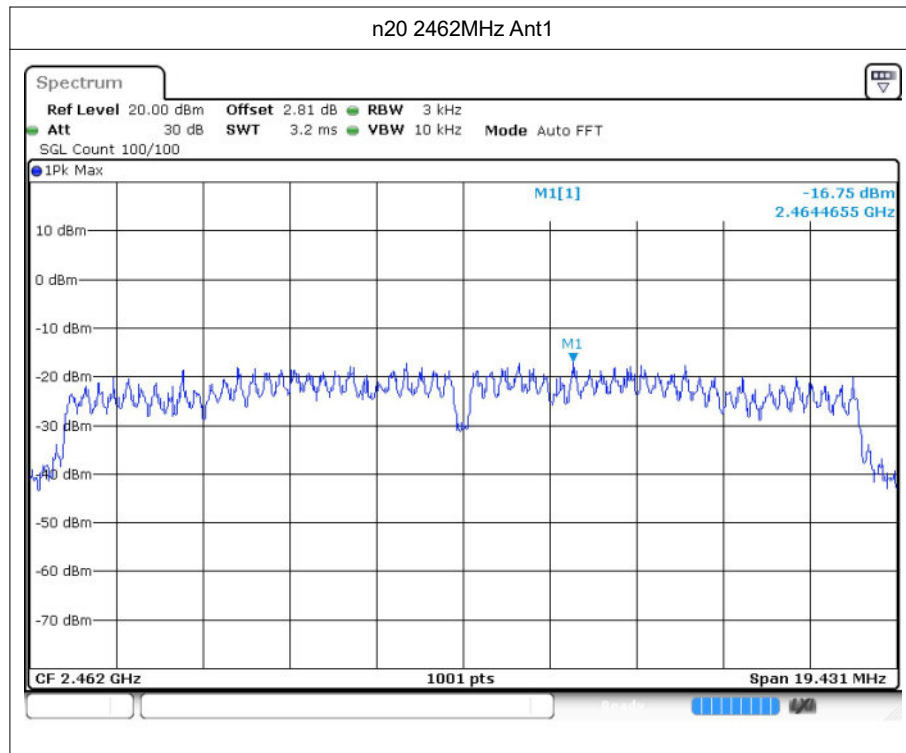
4.2 Test Graphs











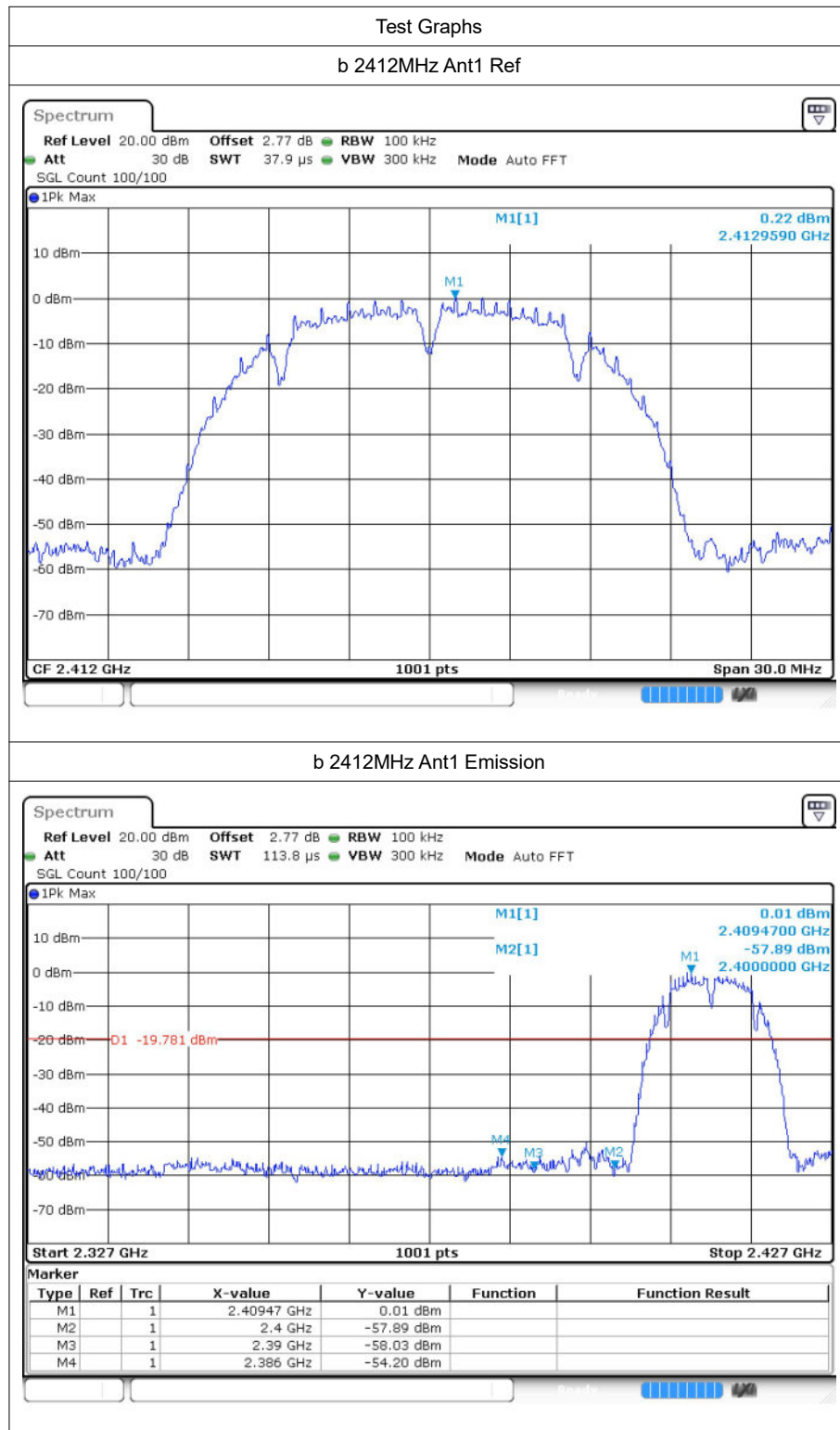


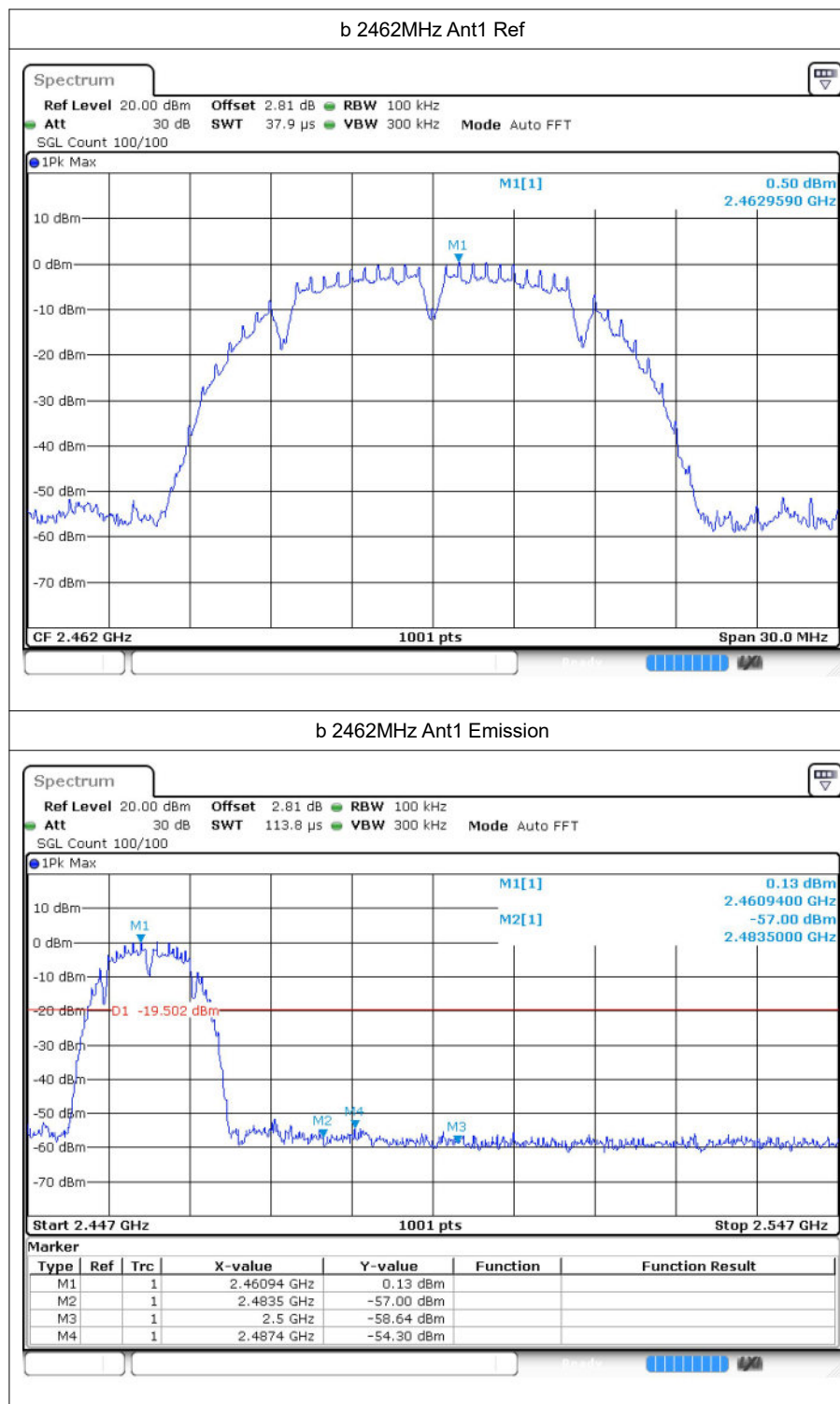
5 Band Edge

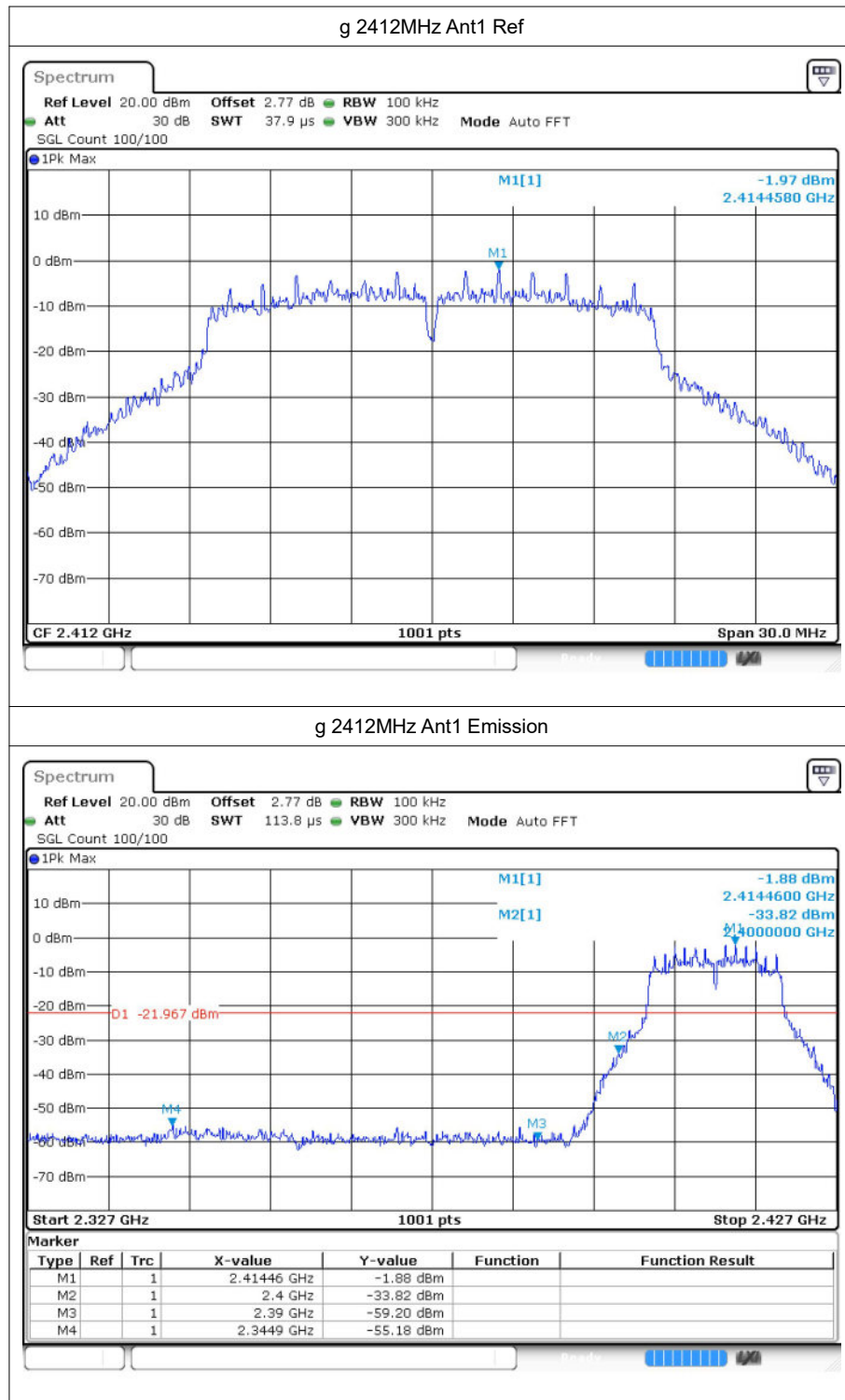
5.1 Test Result

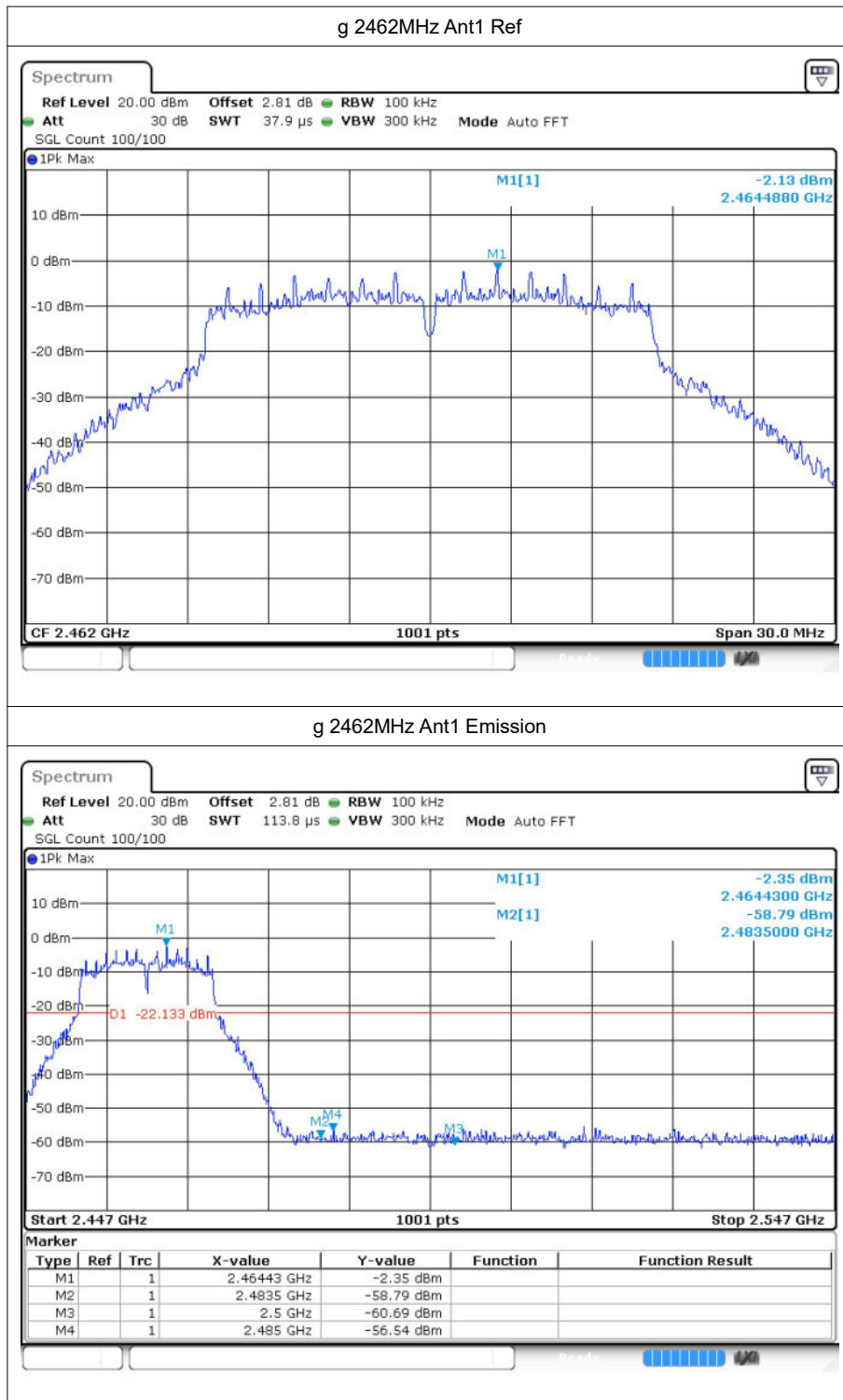
Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
b	2412	Ant1	-54.41	-20	Pass
b	2462	Ant1	-54.79	-20	Pass
g	2412	Ant1	-53.21	-20	Pass
g	2462	Ant1	-54.4	-20	Pass
n20	2412	Ant1	-52.4	-20	Pass
n20	2462	Ant1	-53.46	-20	Pass

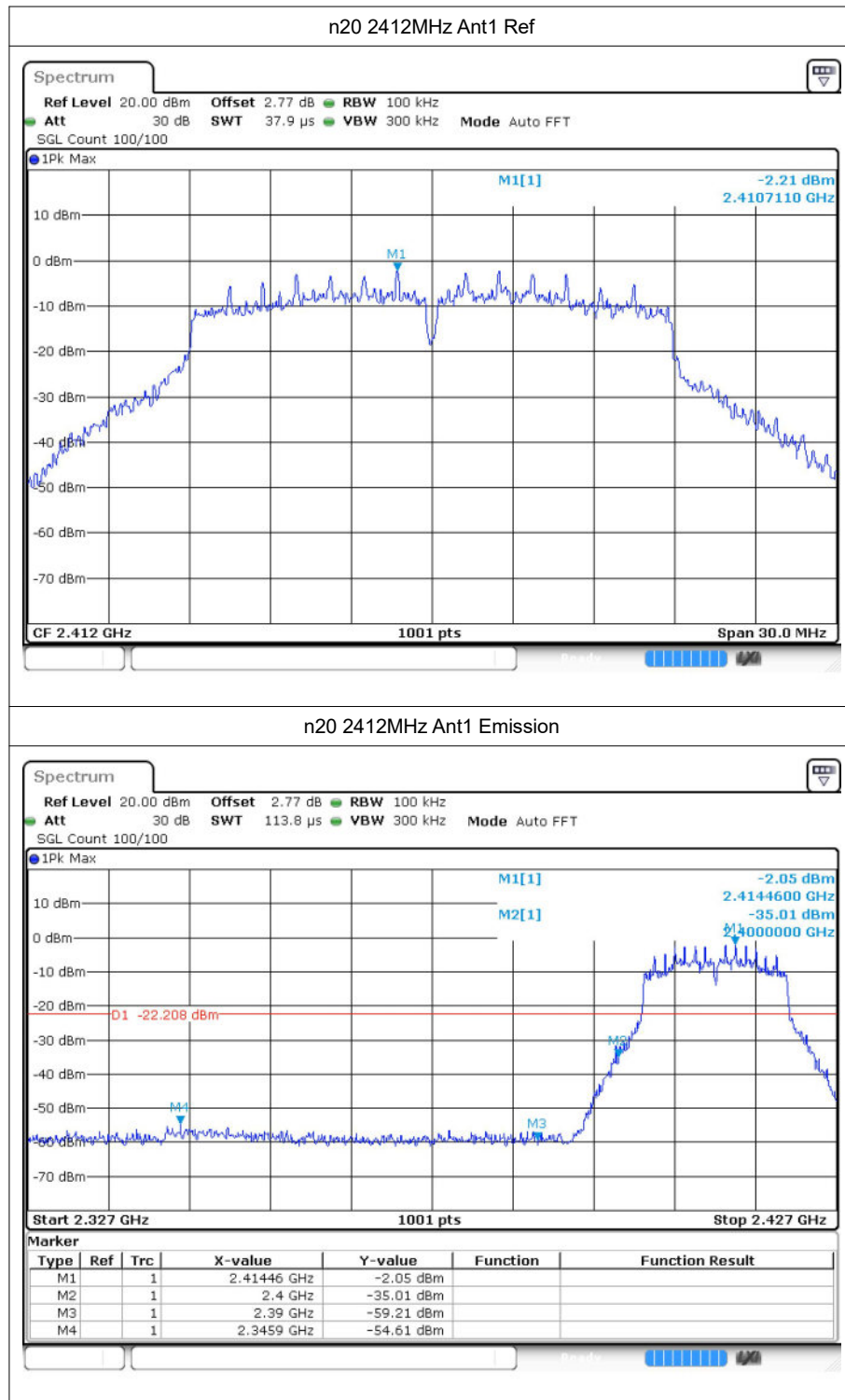
5.2 Test Graphs

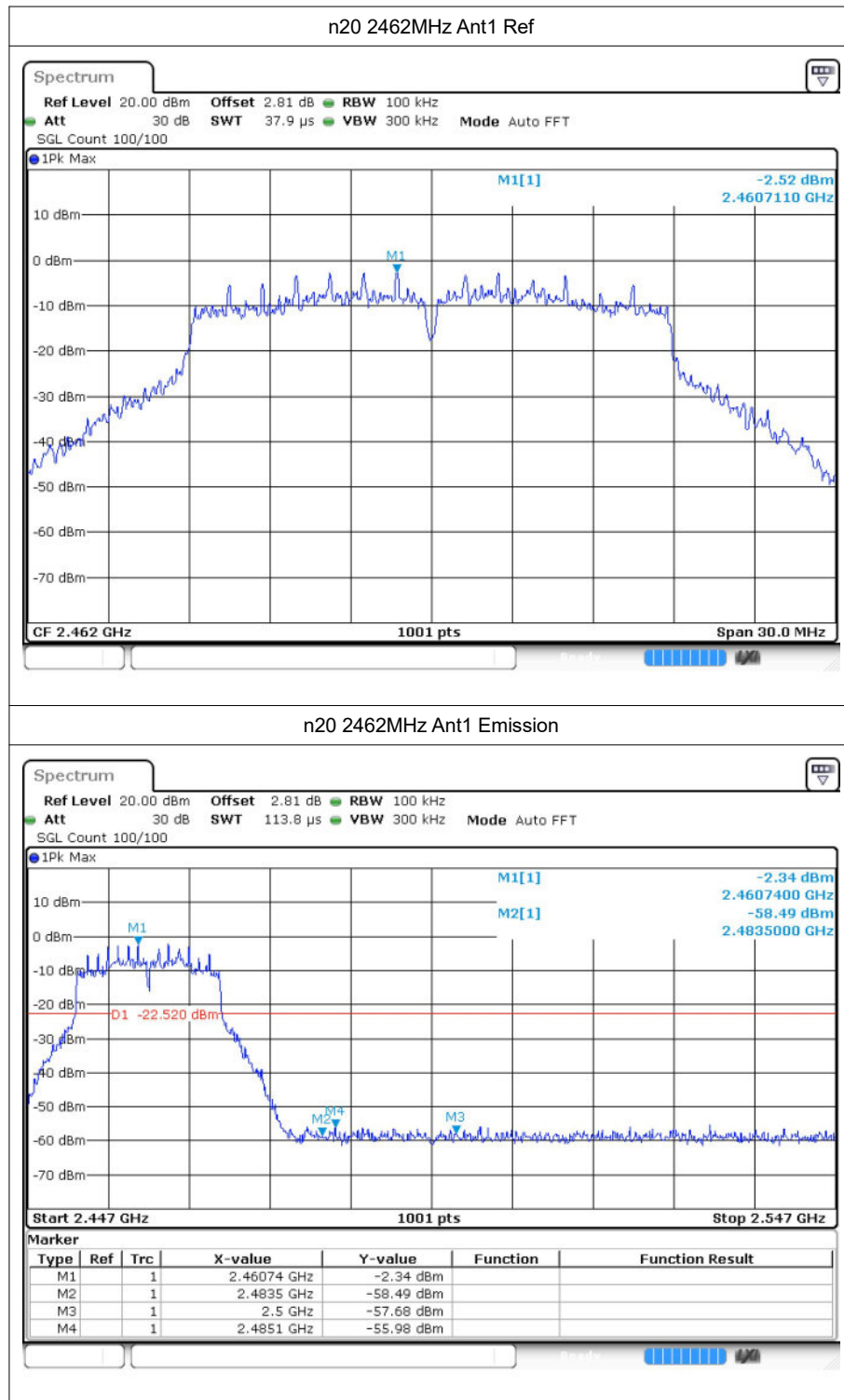












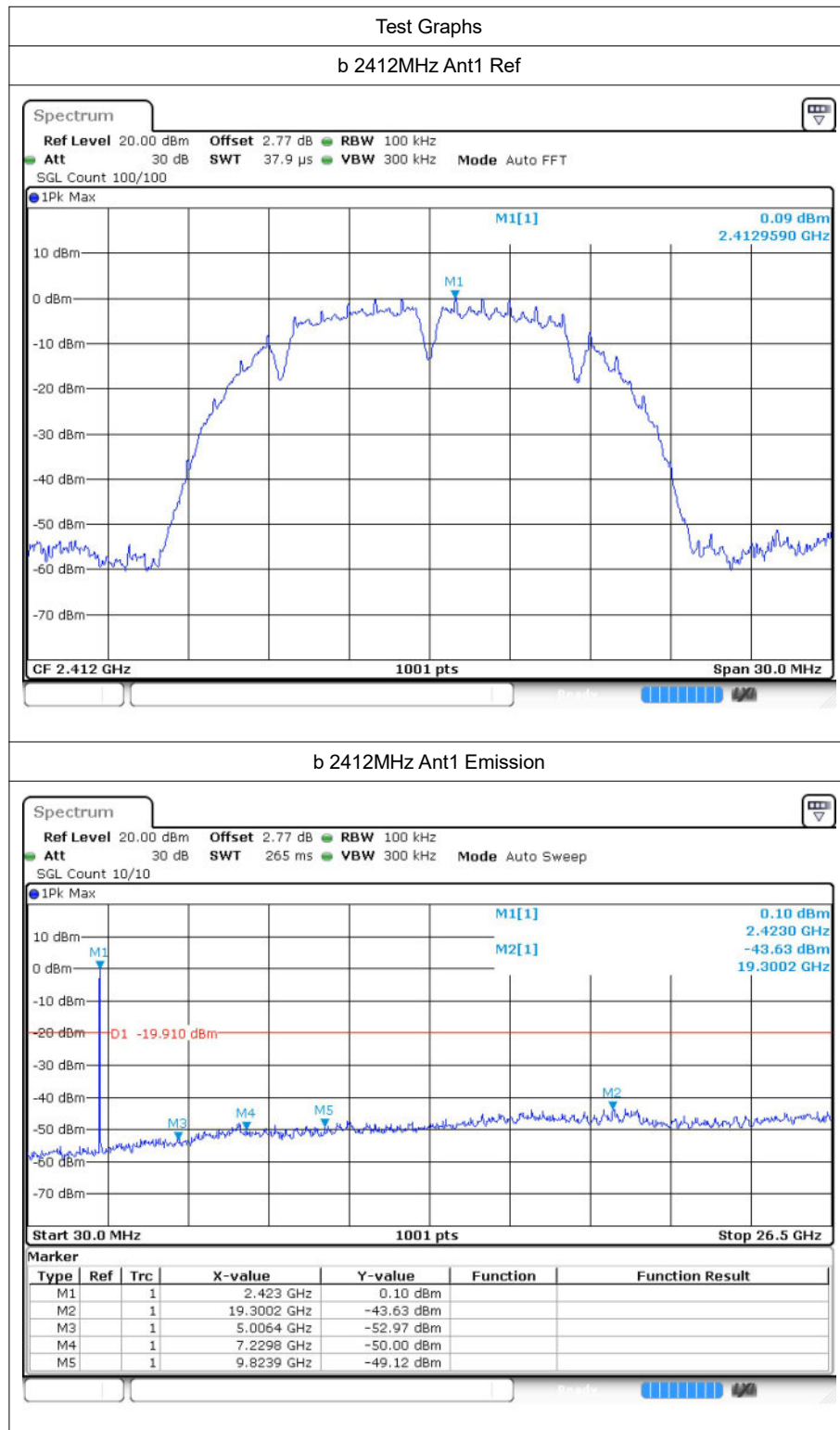


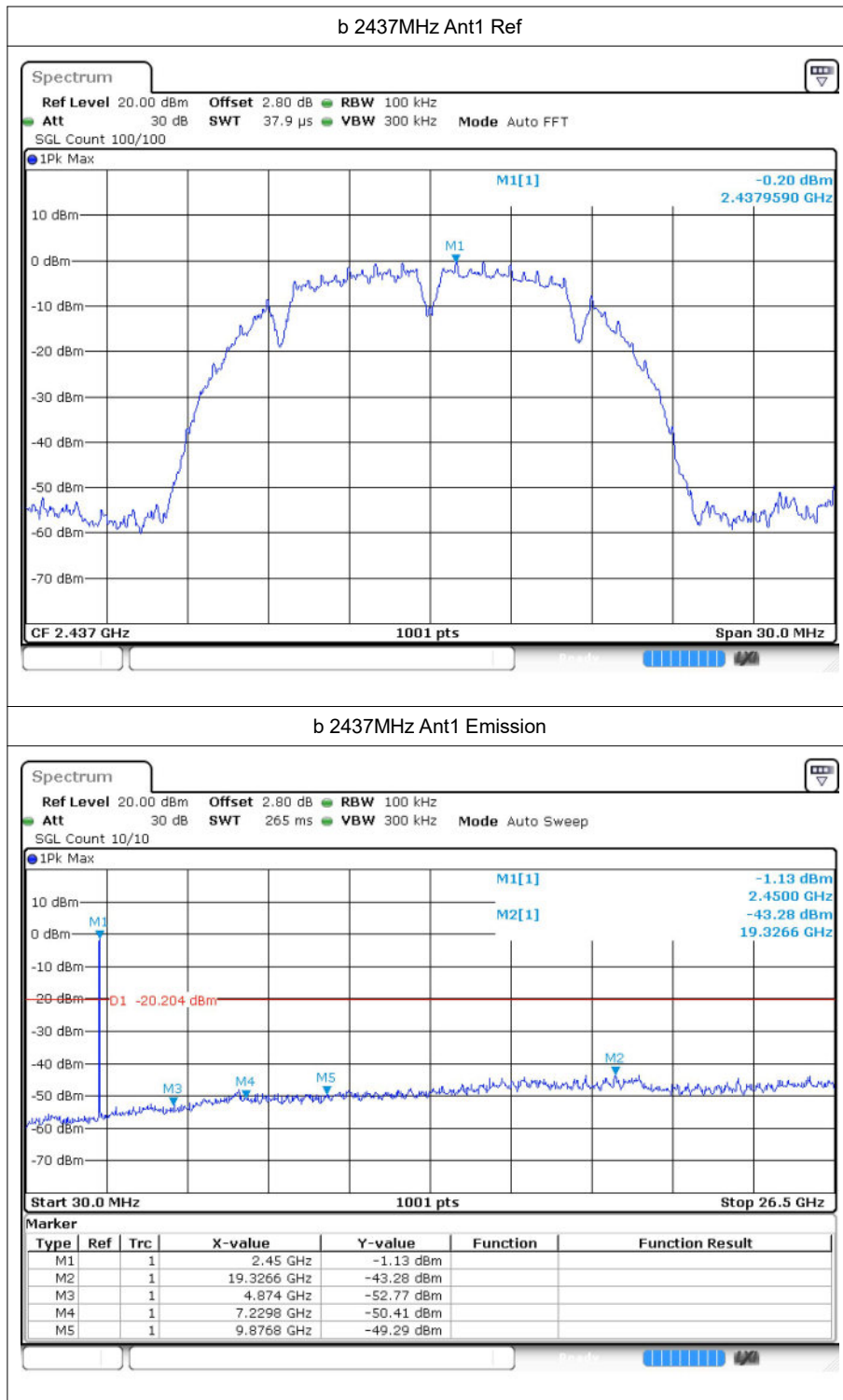
6 Conducted RF Spurious Emission

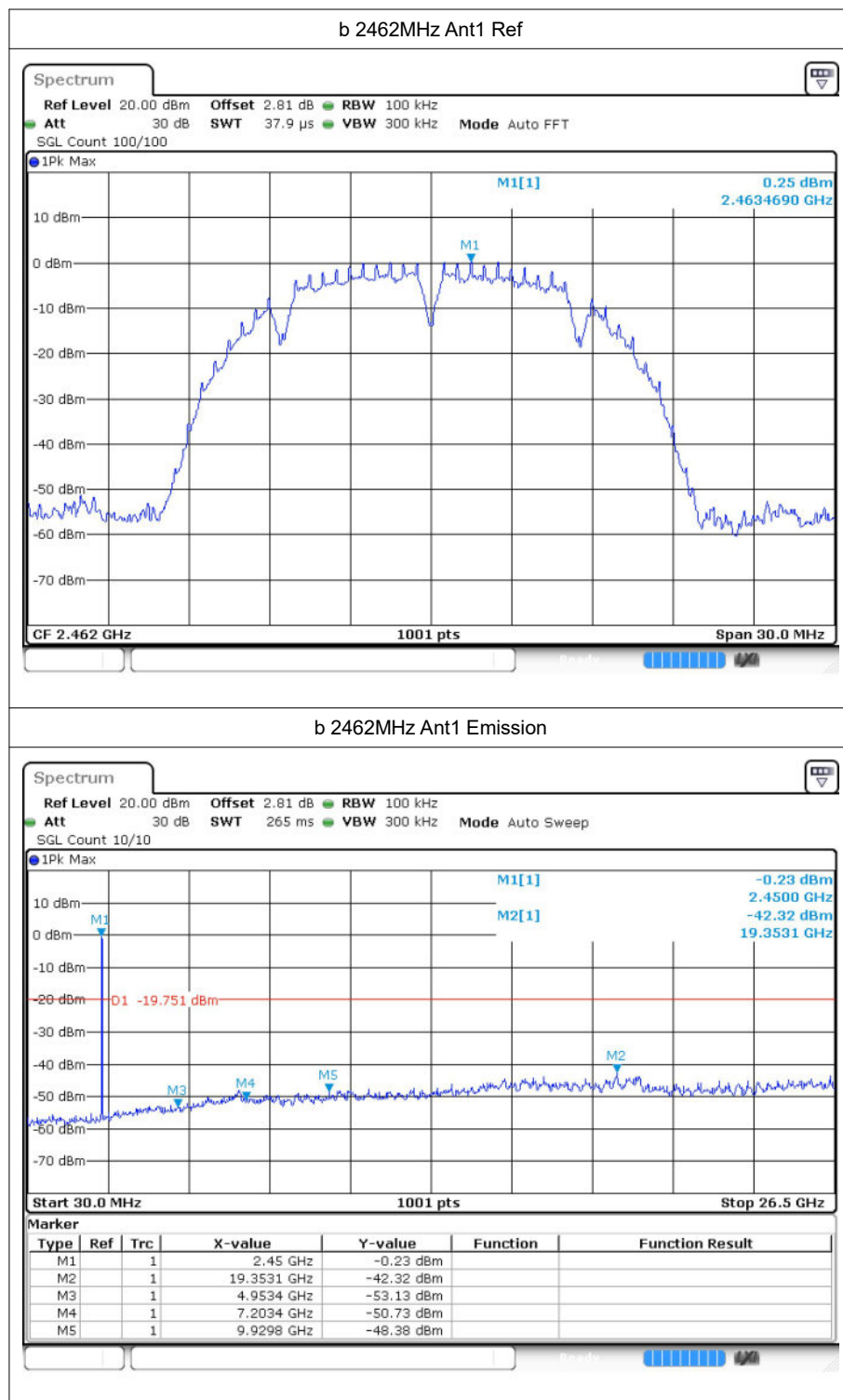
6.1 Test Result

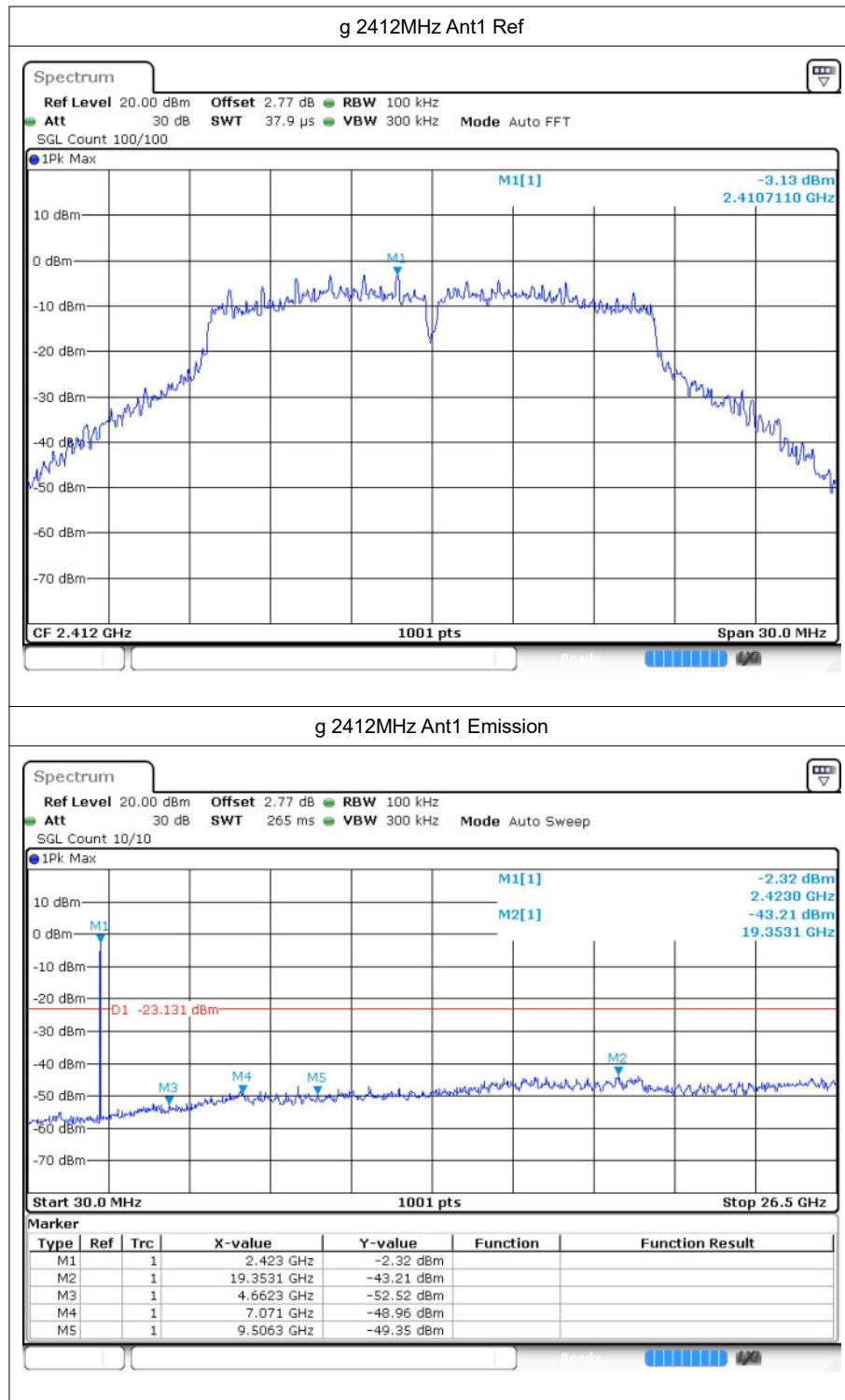
Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
b	2412	Ant1	-43.72	-20	Pass
b	2437	Ant1	-43.08	-20	Pass
b	2462	Ant1	-42.56	-20	Pass
g	2412	Ant1	-40.08	-20	Pass
g	2437	Ant1	-41.35	-20	Pass
g	2462	Ant1	-39.54	-20	Pass
n20	2412	Ant1	-40.93	-20	Pass
n20	2437	Ant1	-40.51	-20	Pass
n20	2462	Ant1	-41.2	-20	Pass

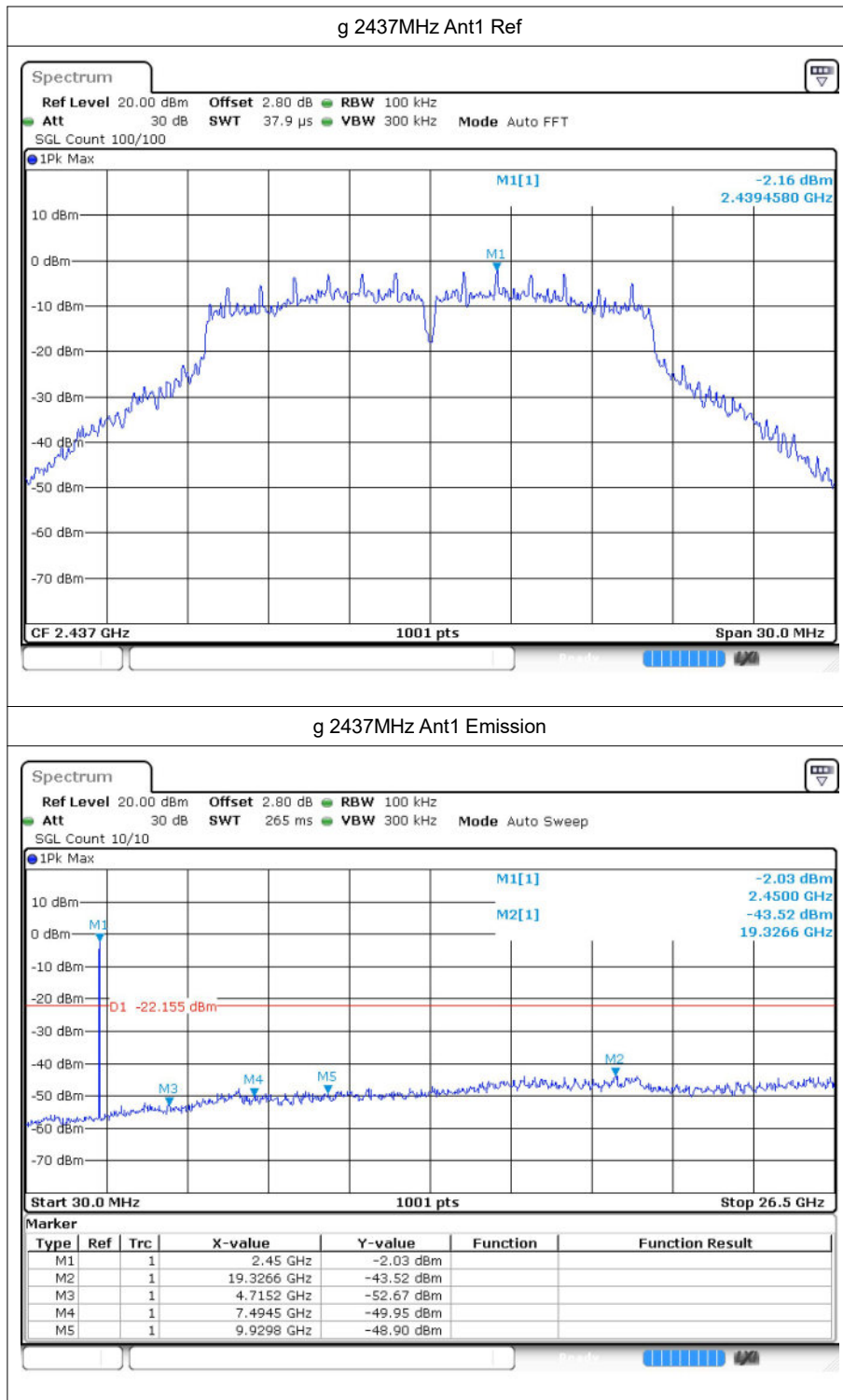
6.2 Test Graphs

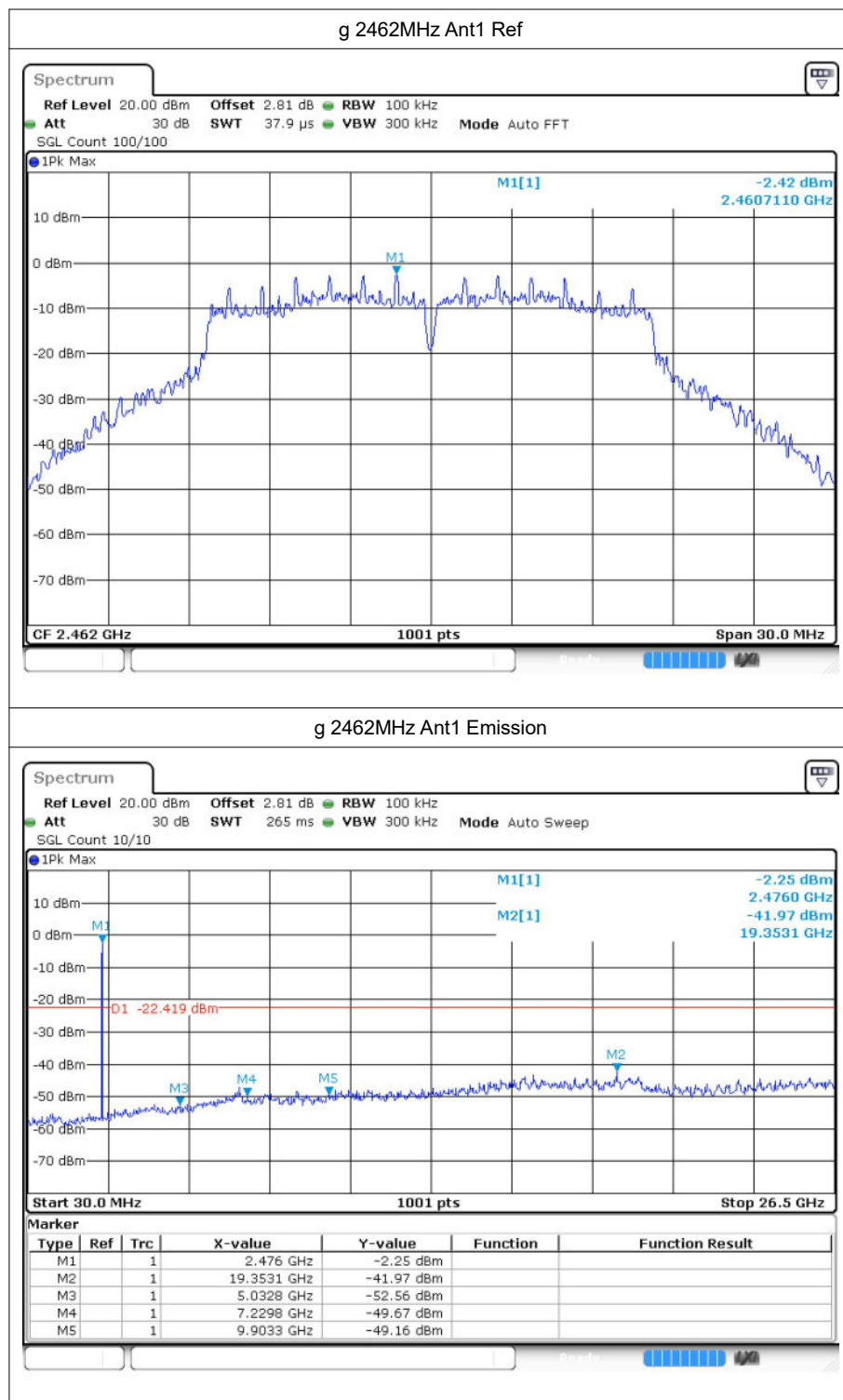


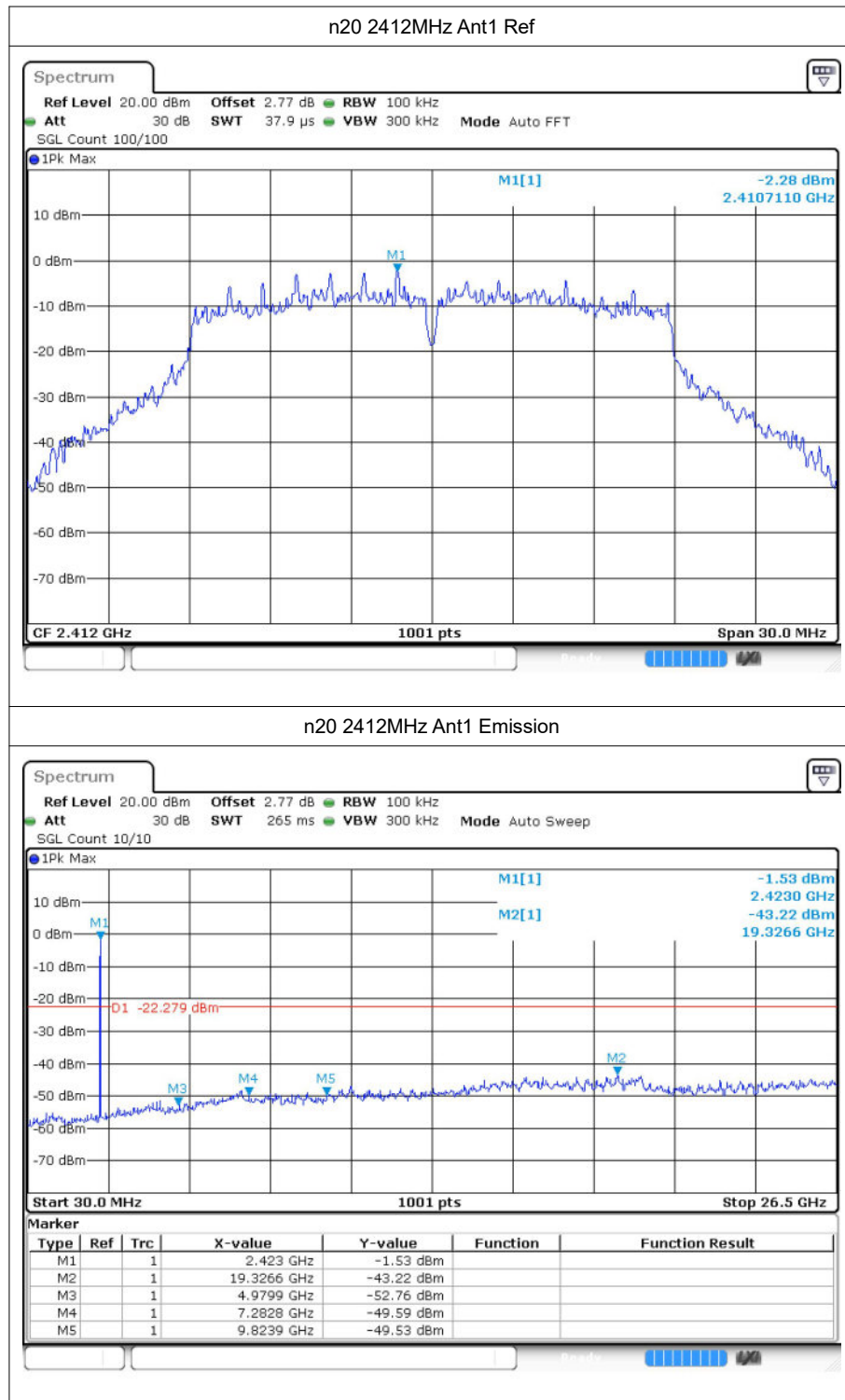


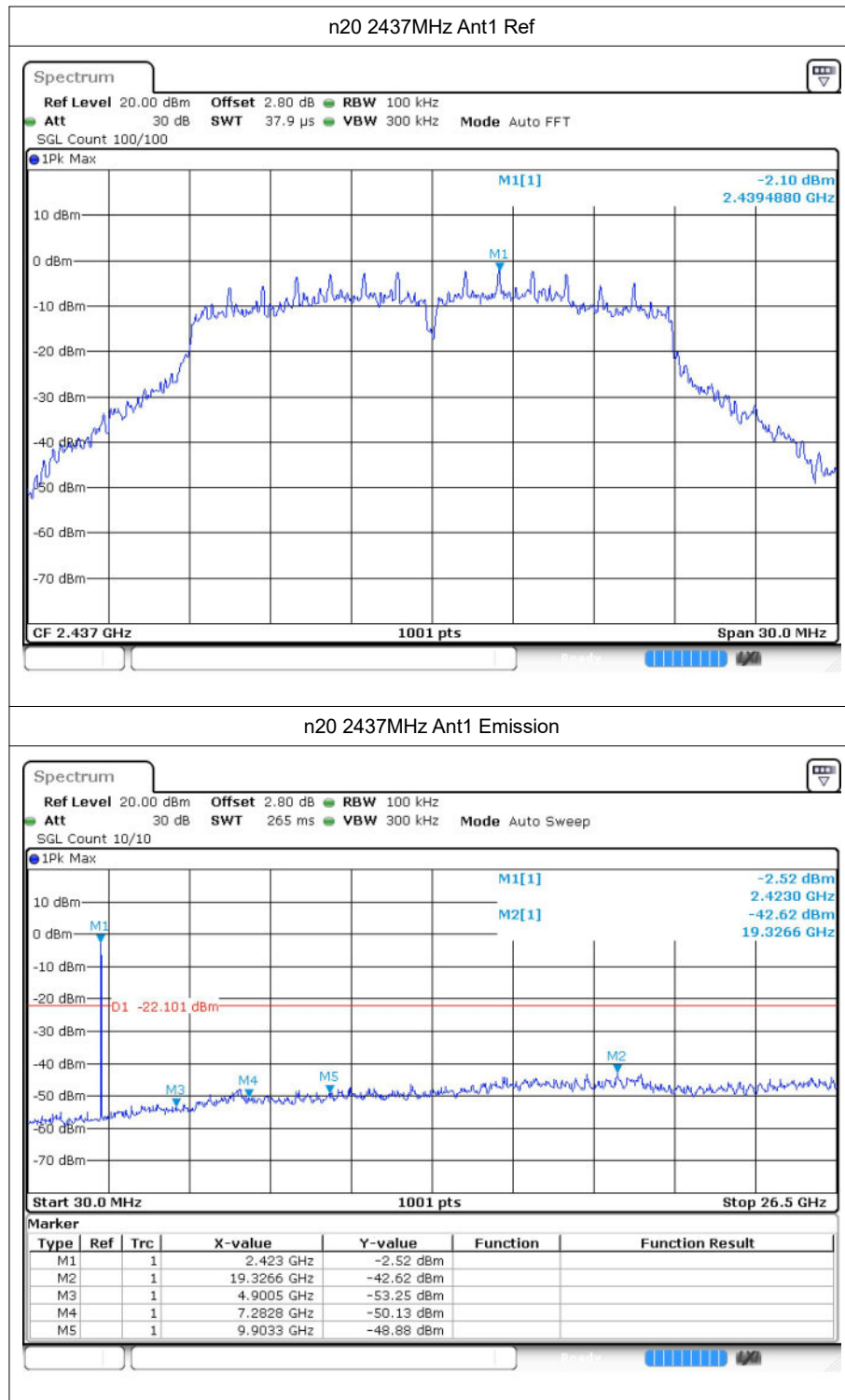


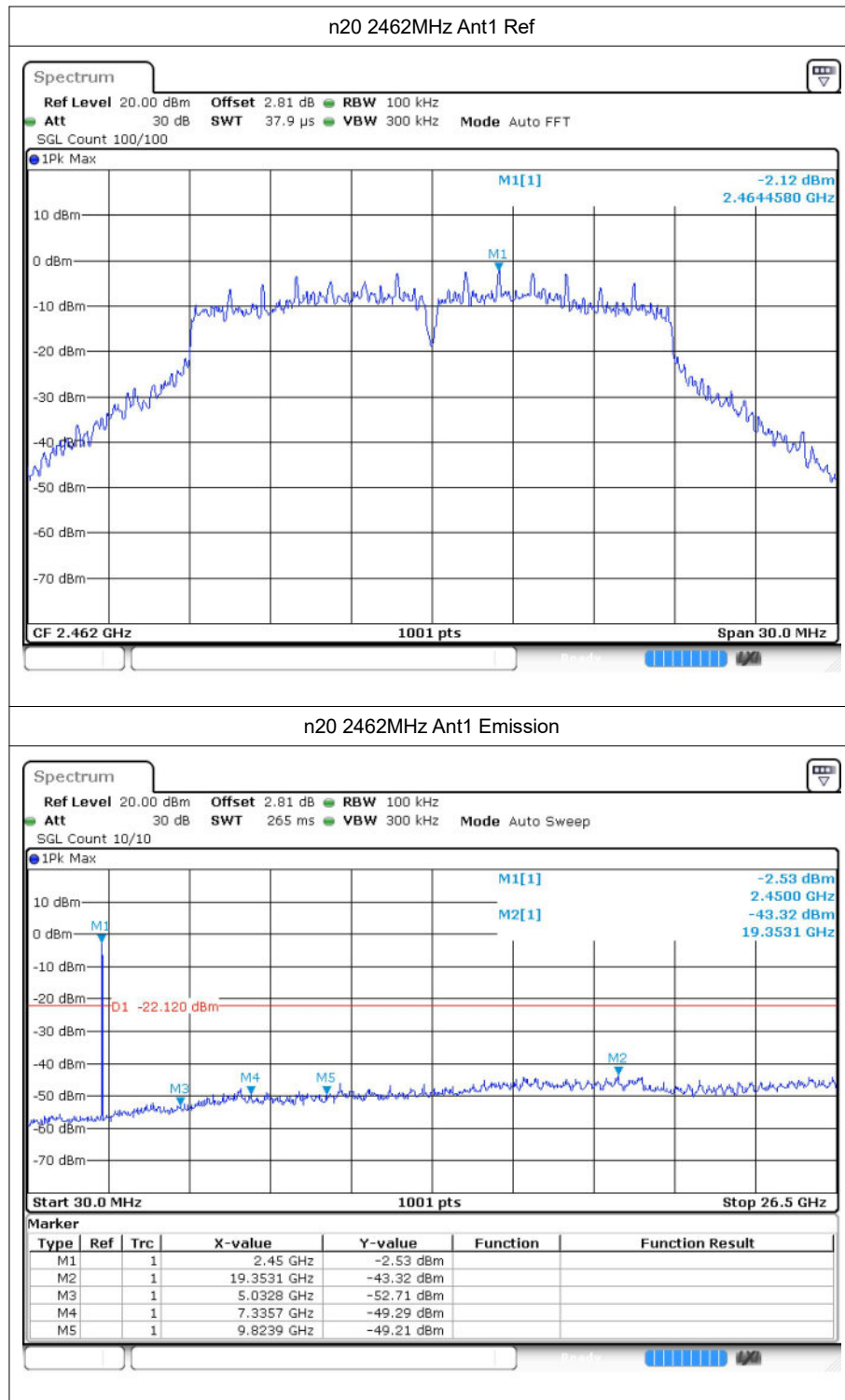














7 Restrict Band

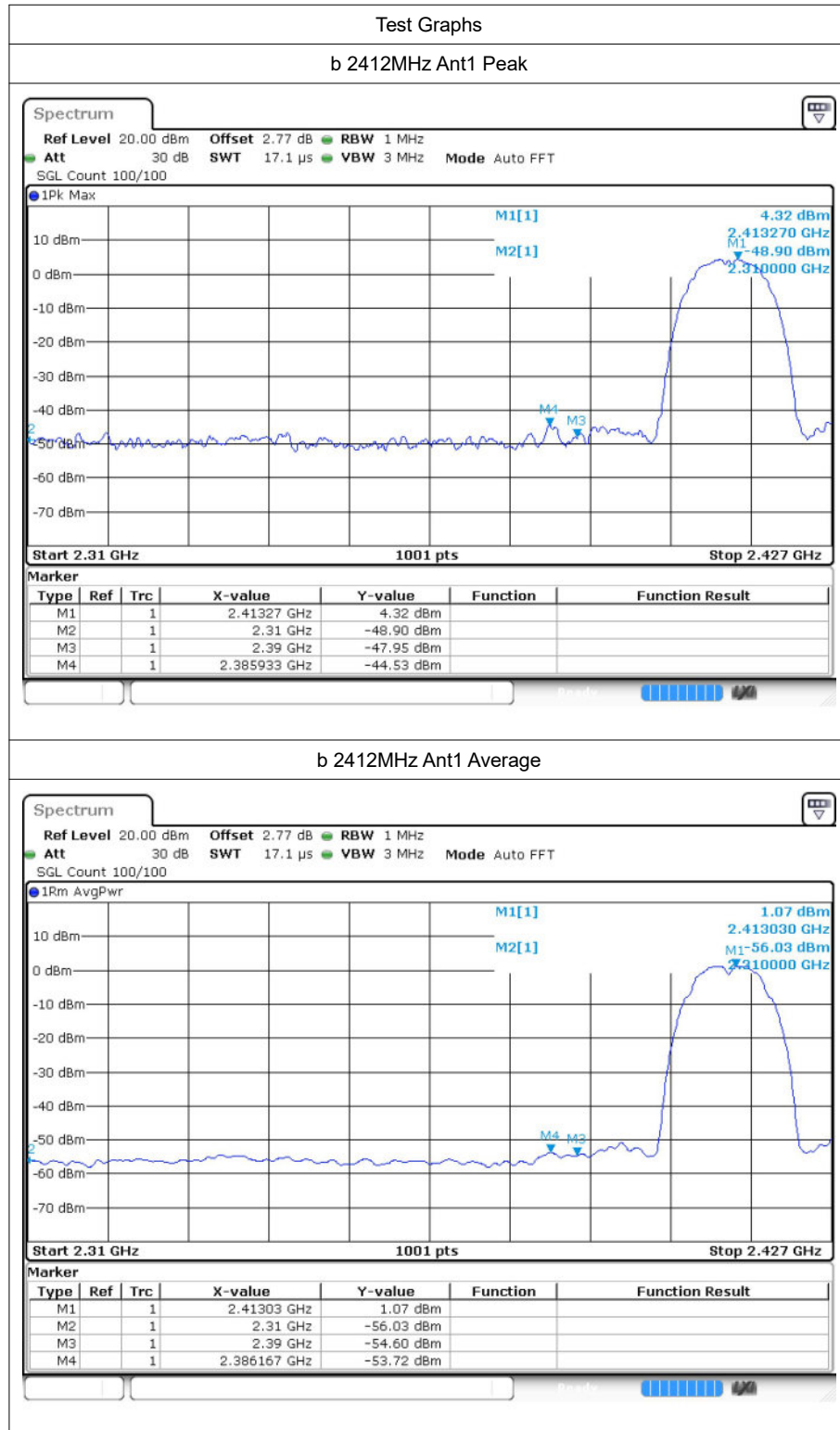
7.1 Test Result

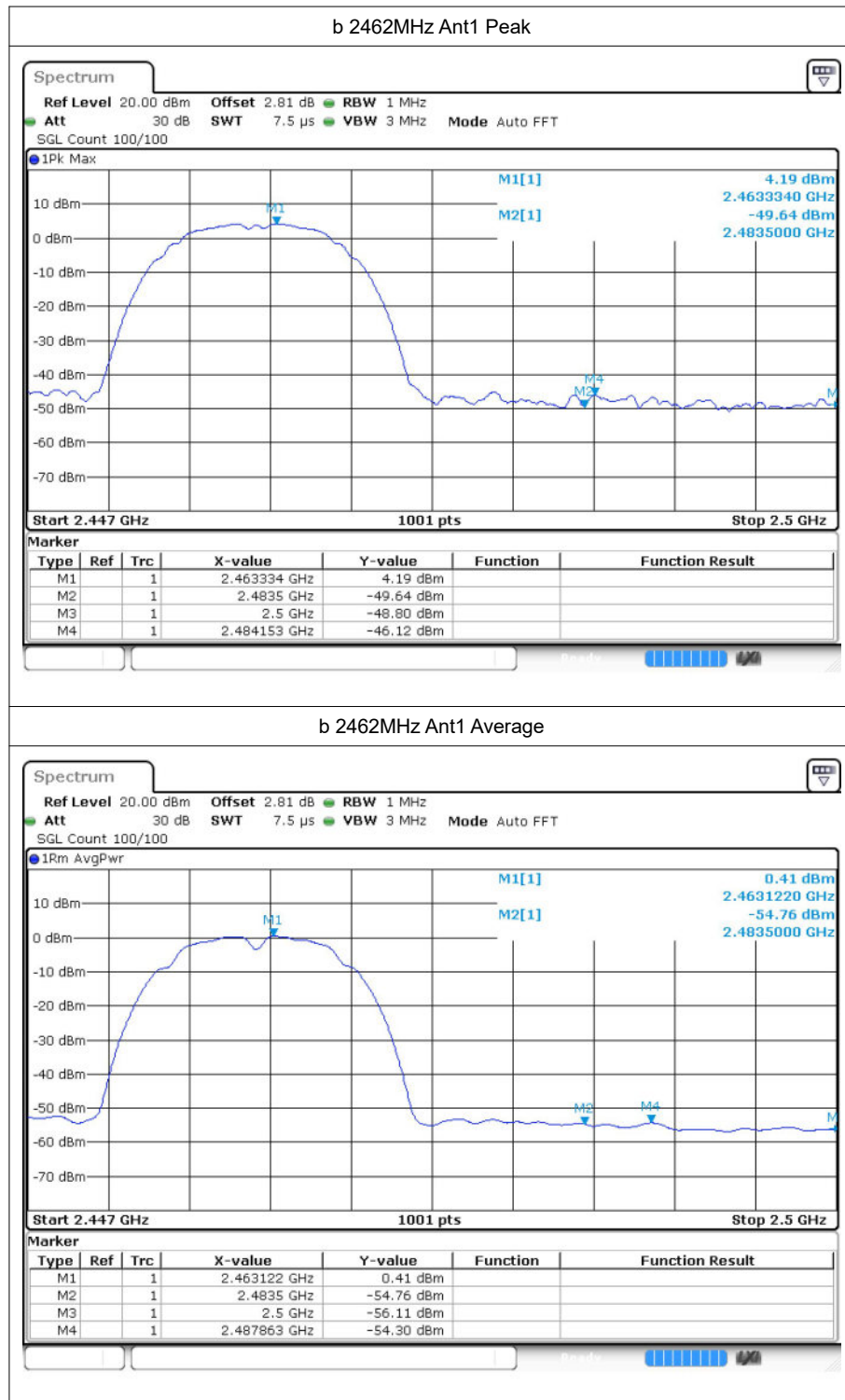
Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
b	2412	Ant1	2310	-48.9	2.0	-	48.33	Peak	74	Pass
b	2412	Ant1	2310	-56.03	2.0	0	41.20	Average	54	Pass
b	2412	Ant1	2385.933	-44.52	2.0	-	52.71	Peak	74	Pass
b	2412	Ant1	2386.167	-53.71	2.0	0	43.52	Average	54	Pass
b	2412	Ant1	2390	-47.95	2.0	-	49.28	Peak	74	Pass
b	2412	Ant1	2390	-54.6	2.0	0	42.63	Average	54	Pass
b	2462	Ant1	2483.5	-49.64	2.0	-	47.59	Peak	74	Pass
b	2462	Ant1	2483.5	-54.76	2.0	0	42.47	Average	54	Pass
b	2462	Ant1	2484.153	-46.11	2.0	-	51.12	Peak	74	Pass
b	2462	Ant1	2487.863	-54.29	2.0	0	42.94	Average	54	Pass
b	2462	Ant1	2500	-48.8	2.0	-	48.43	Peak	74	Pass
b	2462	Ant1	2500	-56.11	2.0	0	41.12	Average	54	Pass
g	2412	Ant1	2310	-49.57	2.0	-	47.66	Peak	74	Pass
g	2412	Ant1	2310	-56.96	2.0	0.61	40.88	Average	54	Pass
g	2412	Ant1	2379.966	-46.21	2.0	-	51.02	Peak	74	Pass
g	2412	Ant1	2336.559	-54.49	2.0	0.61	43.35	Average	54	Pass
g	2412	Ant1	2390	-50.75	2.0	-	46.48	Peak	74	Pass
g	2412	Ant1	2390	-56.8	2.0	0.61	41.04	Average	54	Pass
g	2462	Ant1	2483.5	-49.07	2.0	-	48.16	Peak	74	Pass
g	2462	Ant1	2483.5	-56.21	2.0	0.61	41.63	Average	54	Pass
g	2462	Ant1	2484.153	-46.57	2.0	-	50.66	Peak	74	Pass
g	2462	Ant1	2486.114	-55.57	2.0	0.61	42.27	Average	54	Pass
g	2462	Ant1	2500	-49.65	2.0	-	47.58	Peak	74	Pass
g	2462	Ant1	2500	-56.97	2.0	0.61	40.87	Average	54	Pass
n20	2412	Ant1	2310	-48.53	2.0	-	48.70	Peak	74	Pass
n20	2412	Ant1	2310	-56.71	2.0	0.58	41.10	Average	54	Pass
n20	2412	Ant1	2338.431	-45.21	2.0	-	52.02	Peak	74	Pass
n20	2412	Ant1	2337.261	-54.02	2.0	0.58	43.79	Average	54	Pass
n20	2412	Ant1	2390	-48.94	2.0	-	48.29	Peak	74	Pass
n20	2412	Ant1	2390	-57.33	2.0	0.58	40.48	Average	54	Pass
n20	2462	Ant1	2483.5	-49.06	2.0	-	48.17	Peak	74	Pass
n20	2462	Ant1	2483.5	-55.67	2.0	0.57	42.13	Average	54	Pass
n20	2462	Ant1	2491.414	-45.59	2.0	-	51.64	Peak	74	Pass
n20	2462	Ant1	2483.888	-55.46	2.0	0.57	42.34	Average	54	Pass

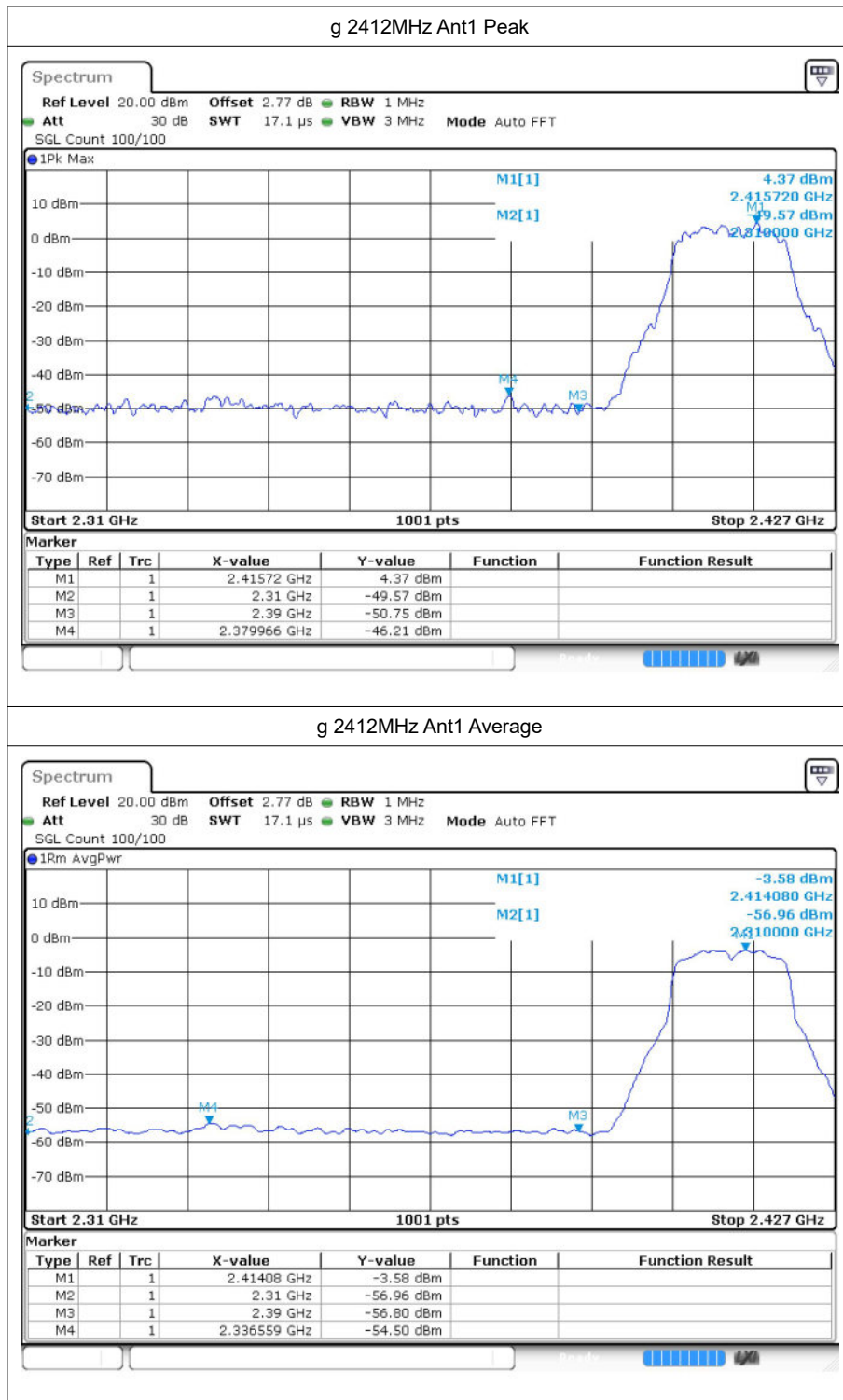


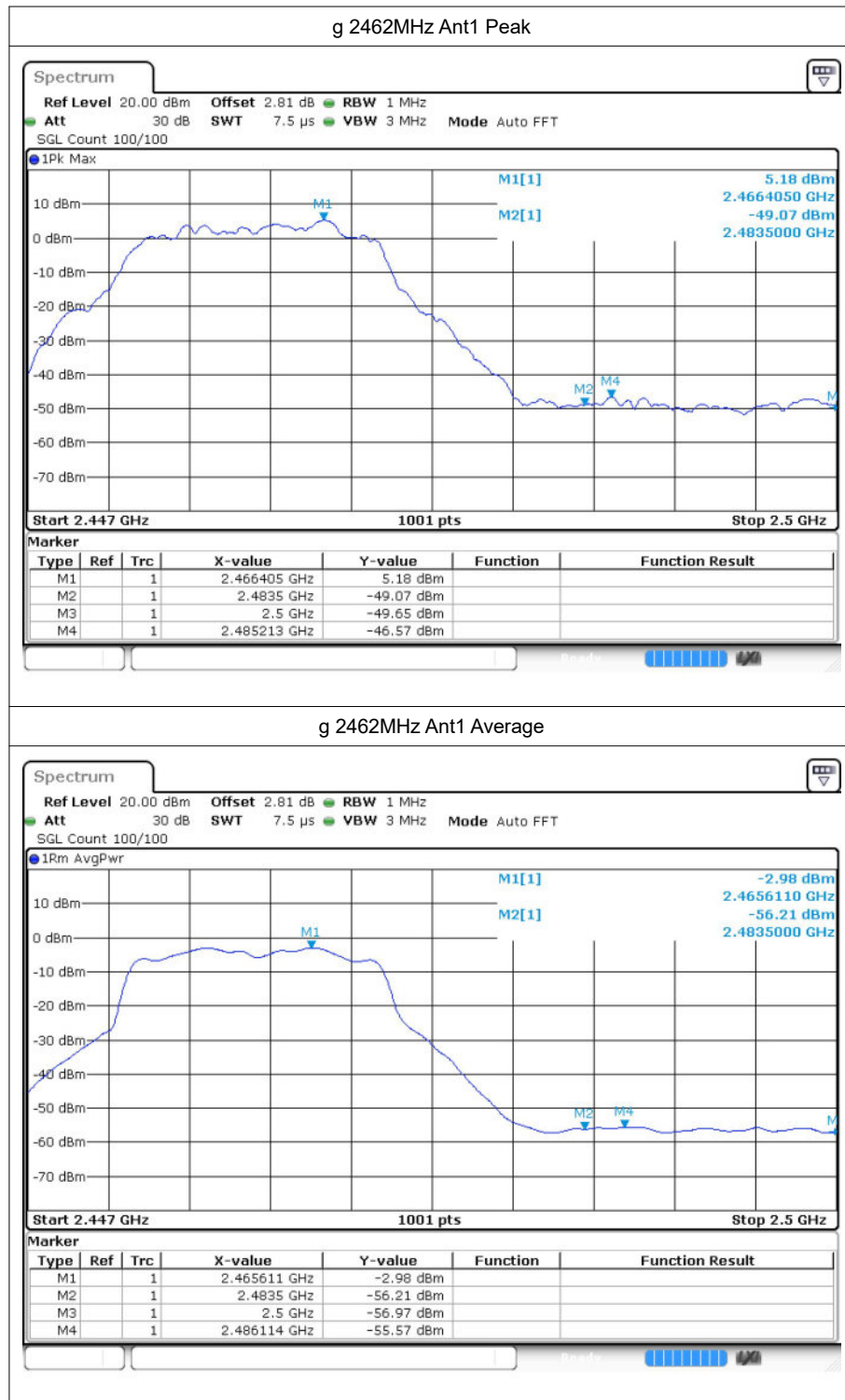
n20	2462	Ant1	2500	-49.28	2.0	-	47.95	Peak	74	Pass
n20	2462	Ant1	2500	-56.2	2.0	0.57	41.60	Average	54	Pass

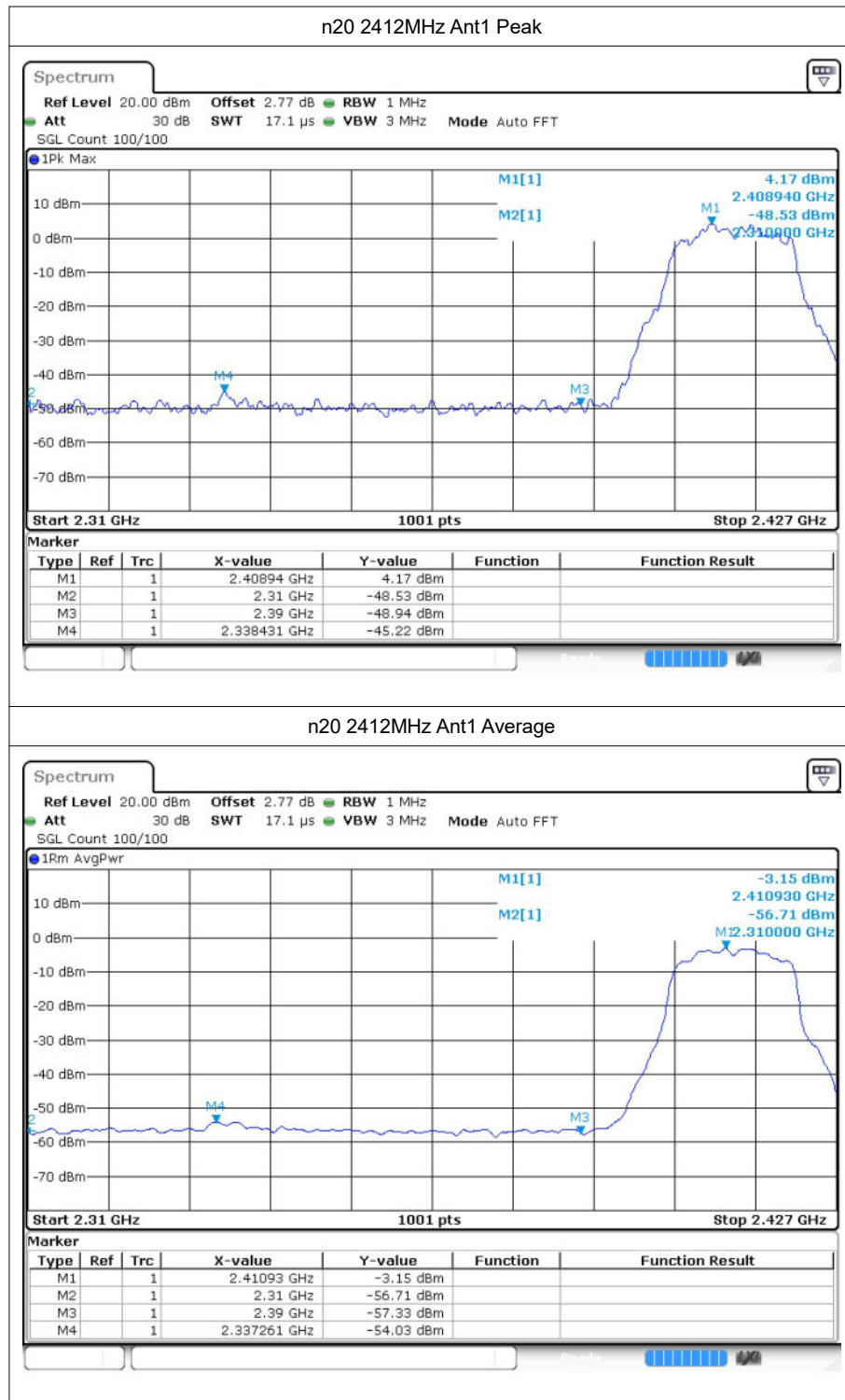
7.2 Test Graphs

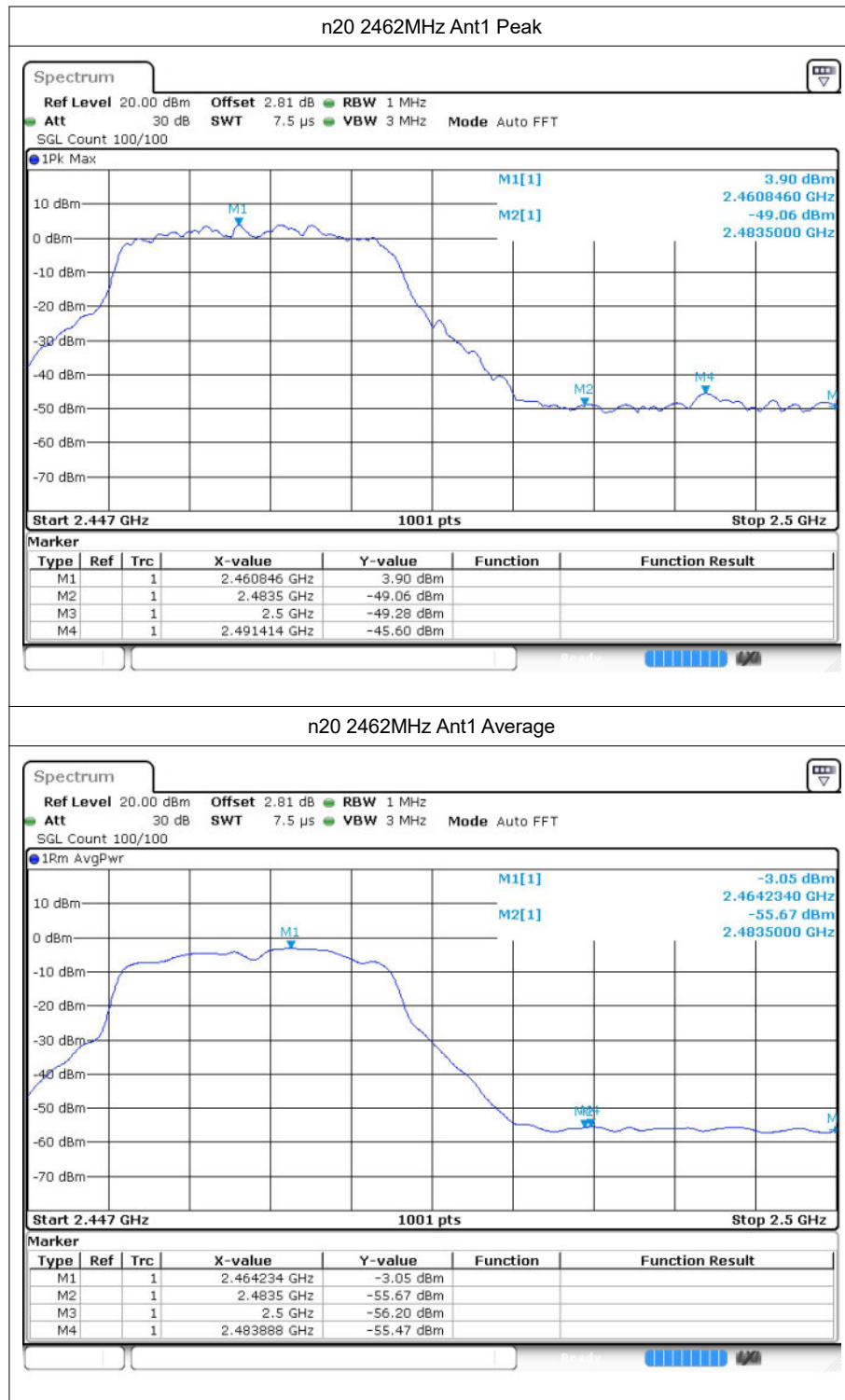












---The End---