



Appendix C

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: Trail Camera

Trade Mark: N/A

Test Model: KJK228

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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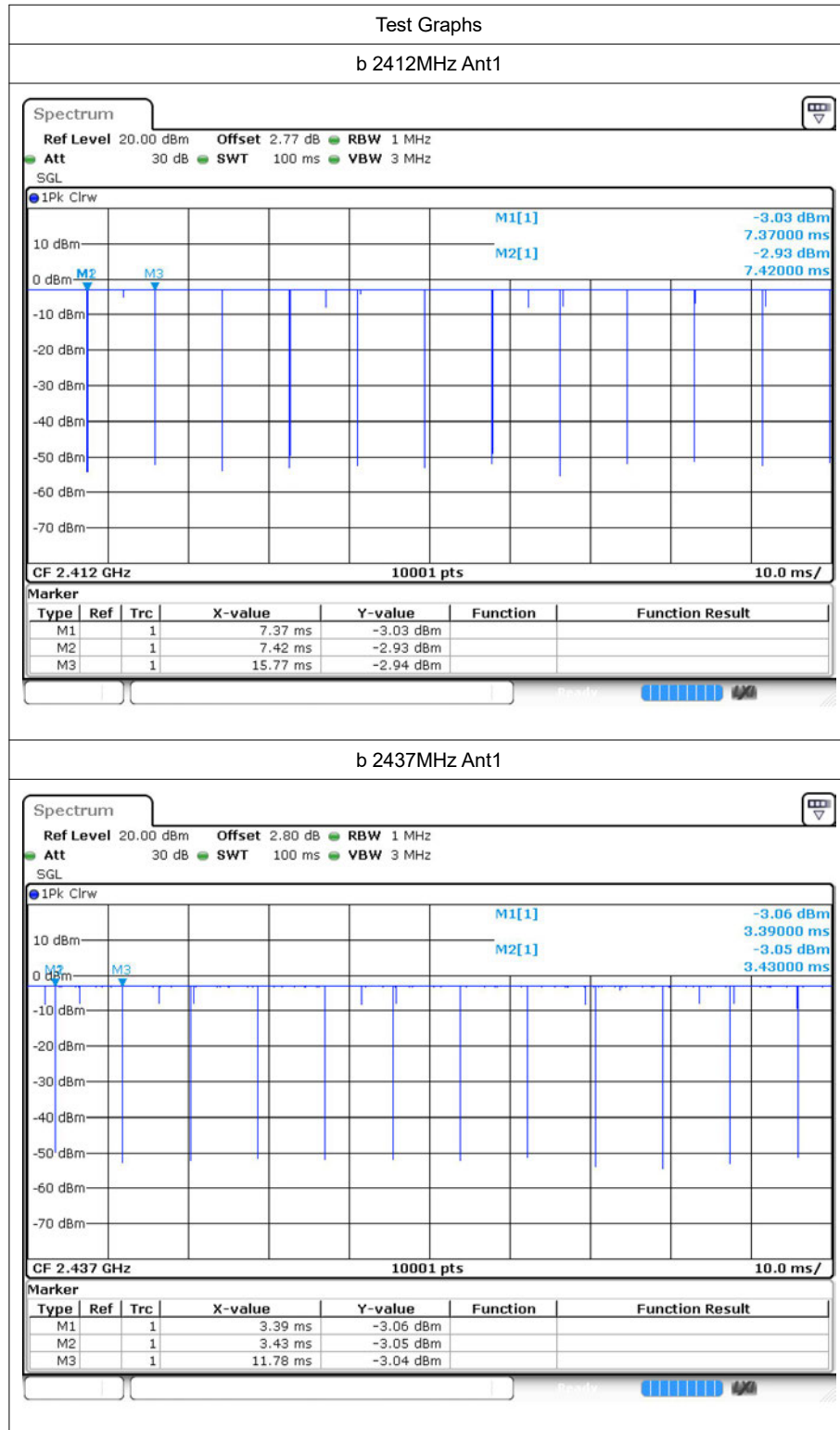


1 Duty Cycle

1.1 Test Result

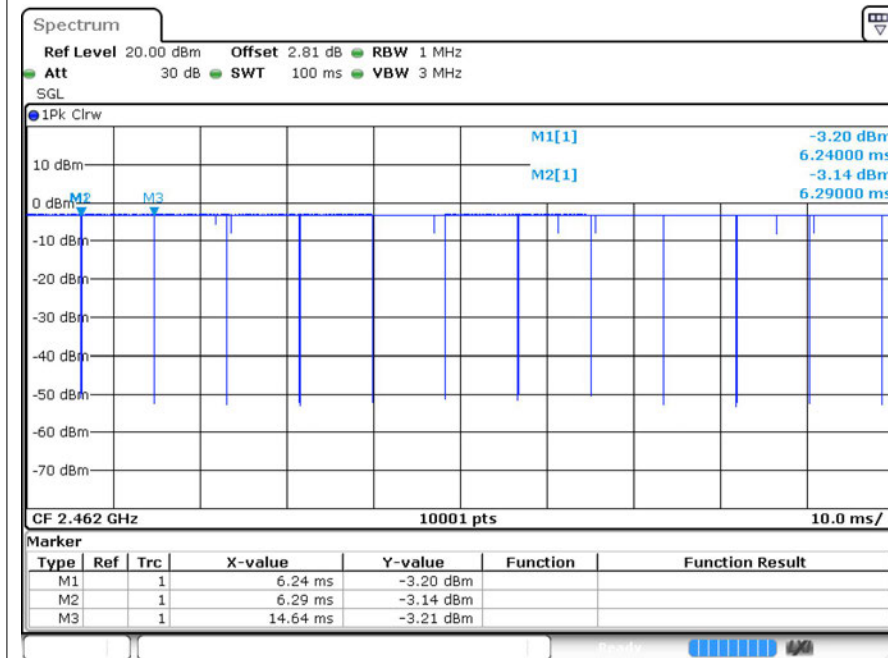
Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor	1/T (kHz)
b	2412	Ant1	99.6	0.02	0.12
b	2437	Ant1	99.6	0.02	0.12
b	2462	Ant1	99.6	0.02	0.12
g	2412	Ant1	86.88	0.61	4.55
g	2437	Ant1	86.79	0.62	4.76
g	2462	Ant1	86.77	0.62	4.55
n20	2412	Ant1	87.48	0.58	4.35
n20	2437	Ant1	87.49	0.58	4.35
n20	2462	Ant1	87.51	0.58	4.35

1.2 Test Graphs

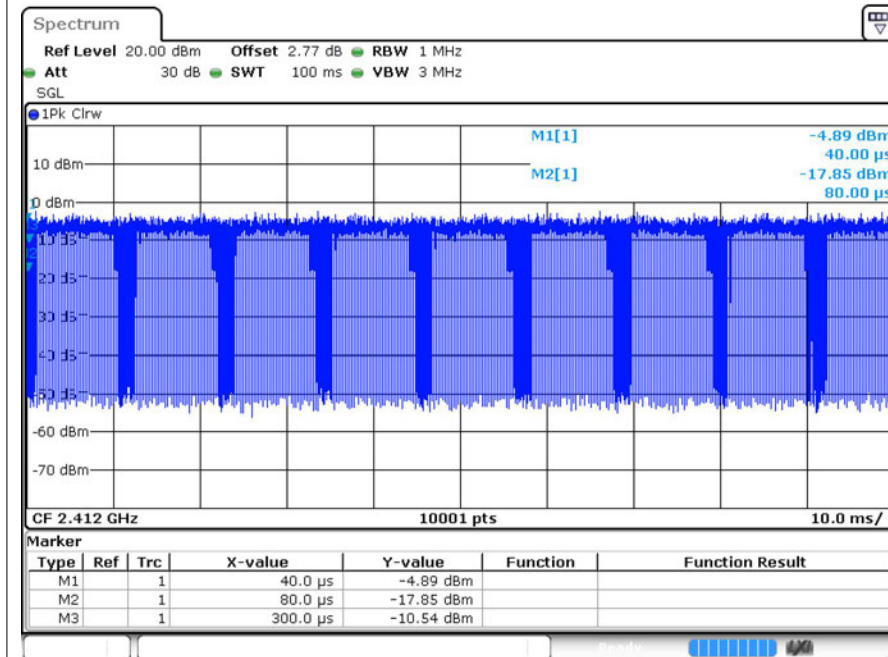


Test Graphs

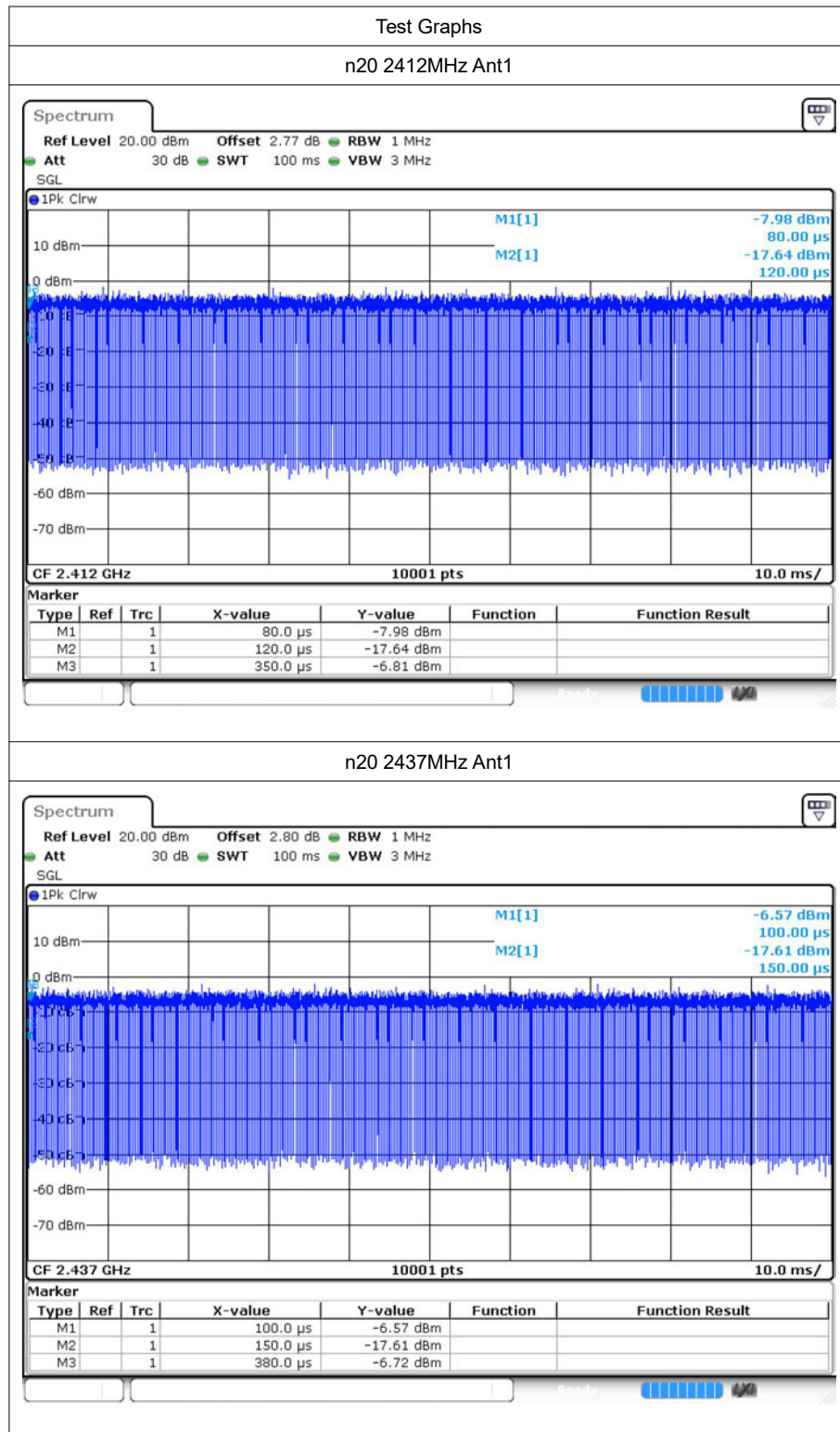
b 2462MHz Ant1

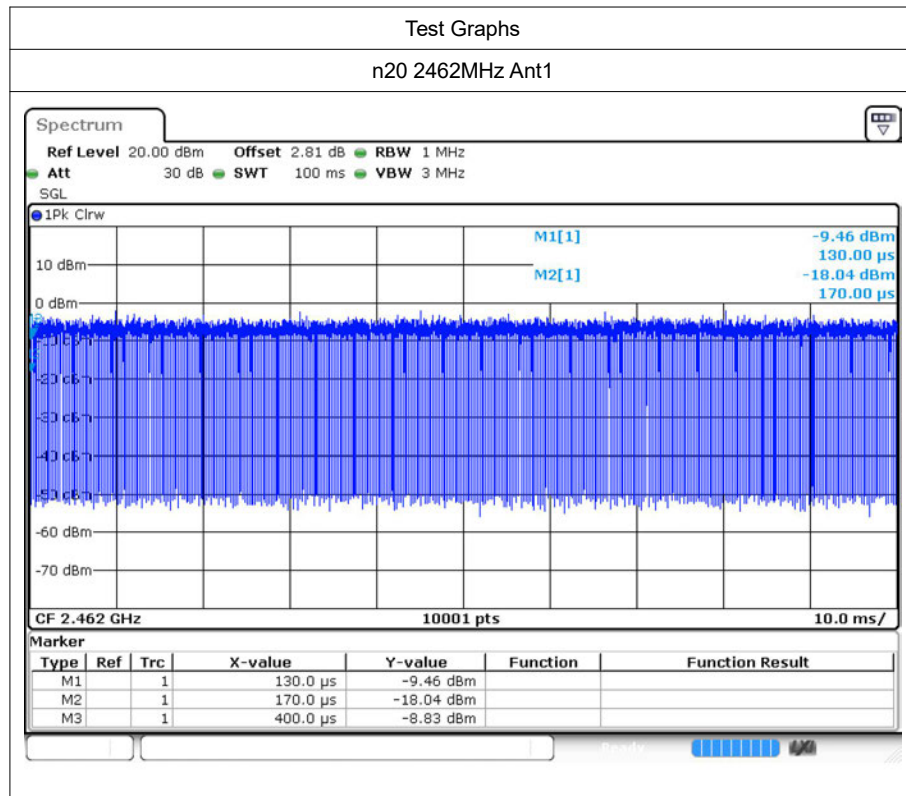


g 2412MHz Ant1









2 Maximum Conducted Output Power

2.1 Test Result

Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
b	2412	Ant1	7.42	30	Pass
b	2437	Ant1	7.36	30	Pass
b	2462	Ant1	7.32	30	Pass
g	2412	Ant1	7.03	30	Pass
g	2437	Ant1	7.11	30	Pass
g	2462	Ant1	6.92	30	Pass
n20	2412	Ant1	7.15	30	Pass
n20	2437	Ant1	6.81	30	Pass
n20	2462	Ant1	6.7	30	Pass

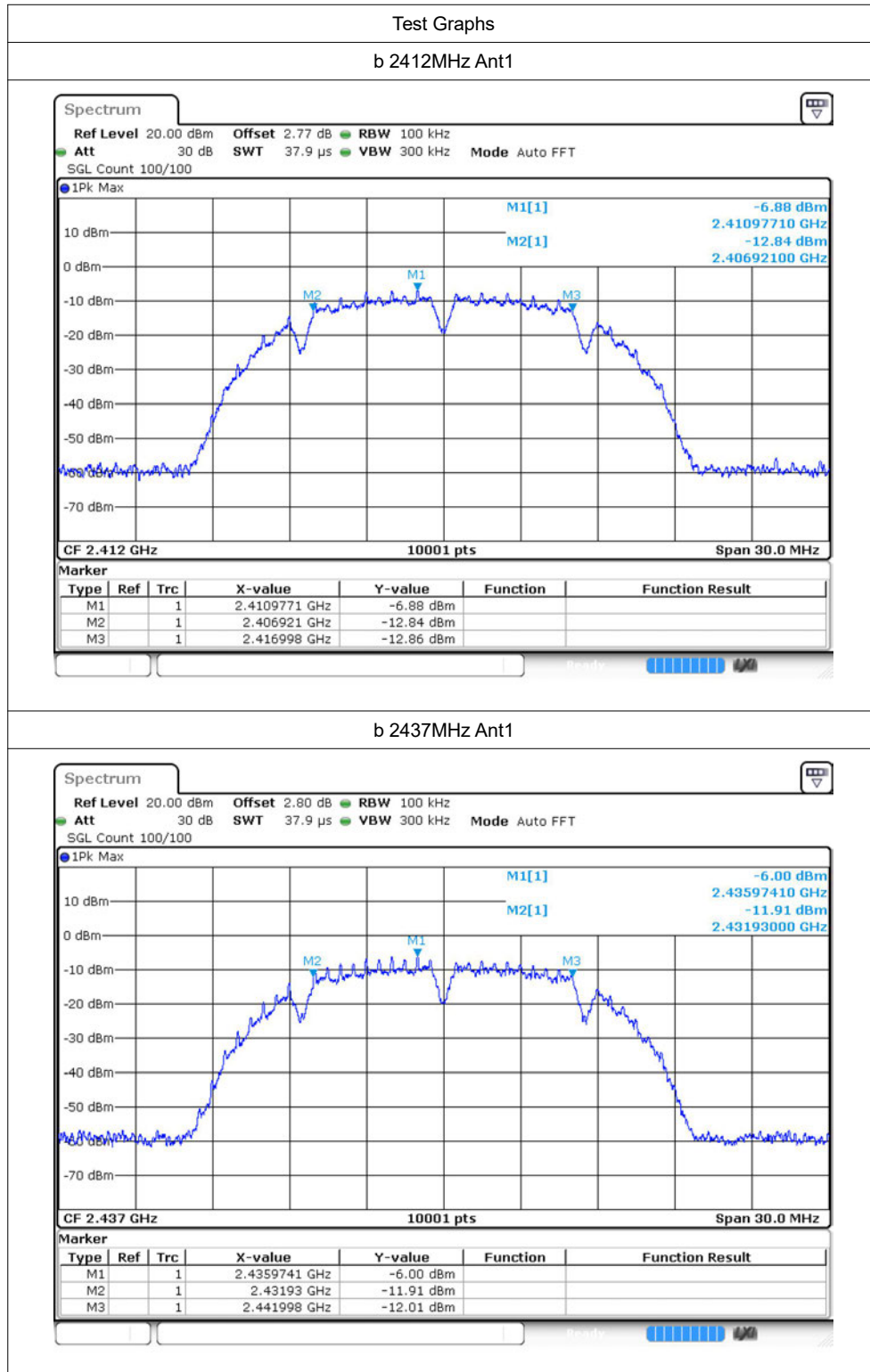


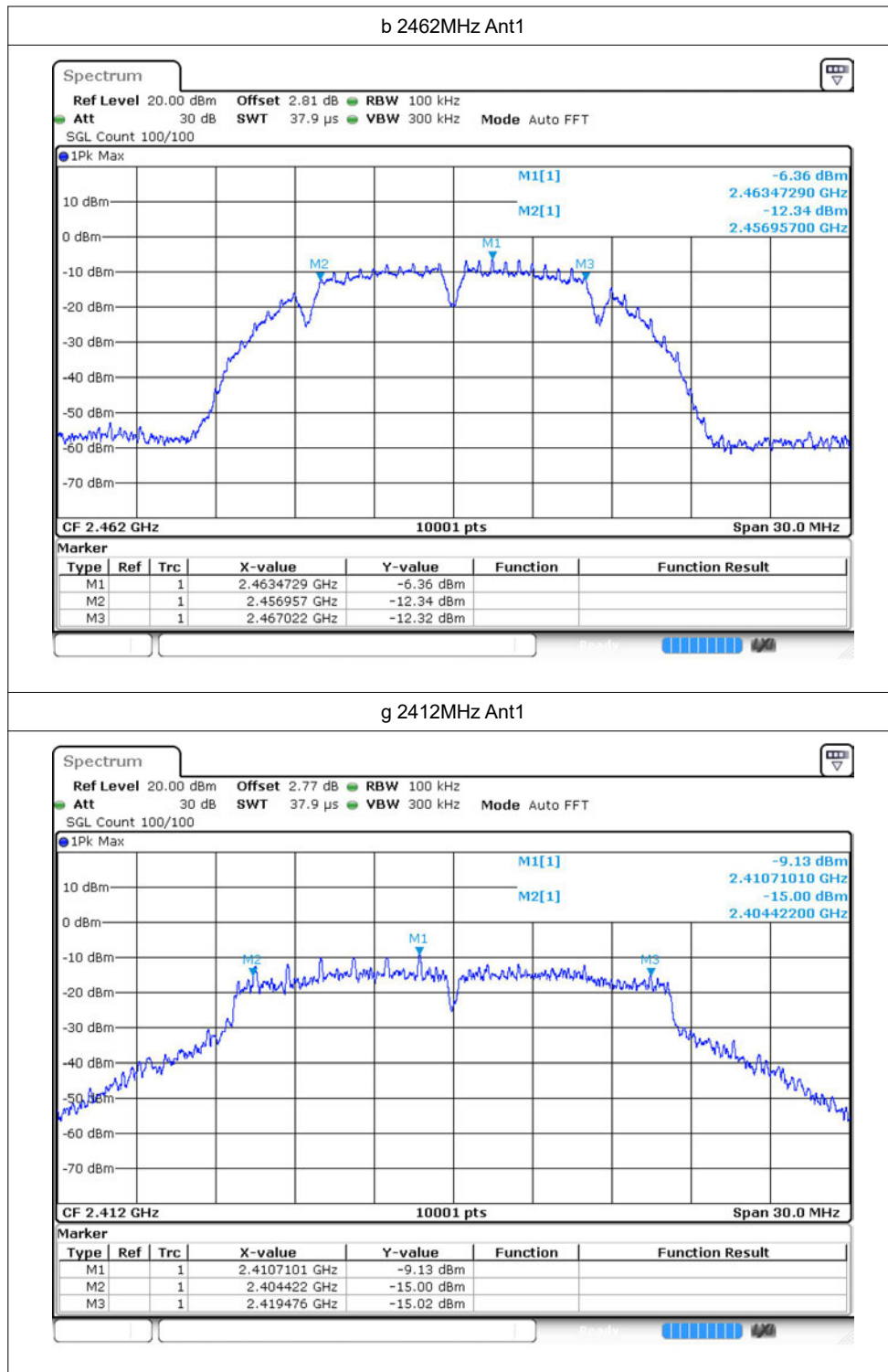
3 -6dB Bandwidth

3.1 Test Result

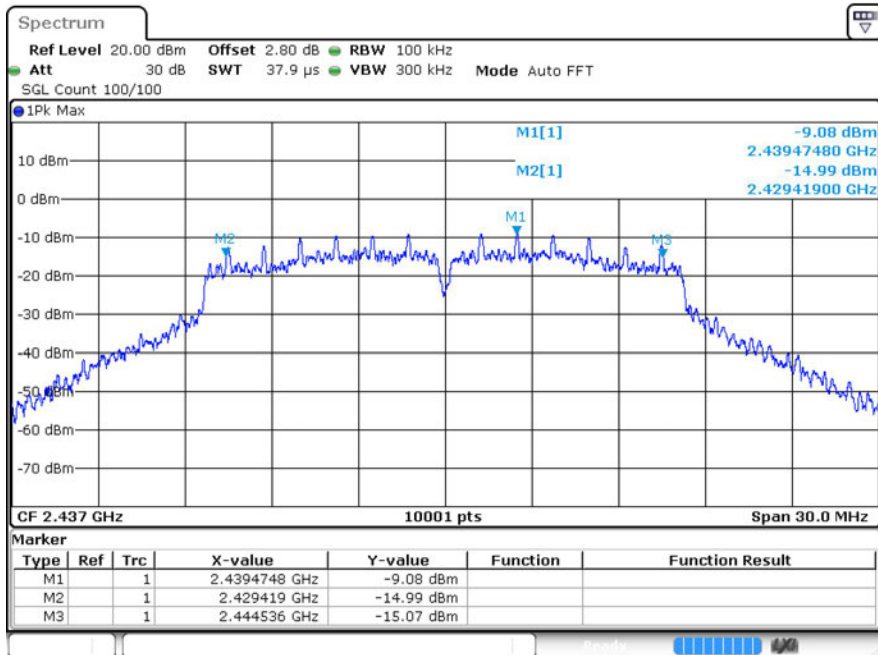
Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
b	2412	Ant1	10.077	0.5	Pass
b	2437	Ant1	10.068	0.5	Pass
b	2462	Ant1	10.065	0.5	Pass
g	2412	Ant1	15.054	0.5	Pass
g	2437	Ant1	15.117	0.5	Pass
g	2462	Ant1	13.86	0.5	Pass
n20	2412	Ant1	15.111	0.5	Pass
n20	2437	Ant1	15.075	0.5	Pass
n20	2462	Ant1	15.117	0.5	Pass

3.2 Test Graphs

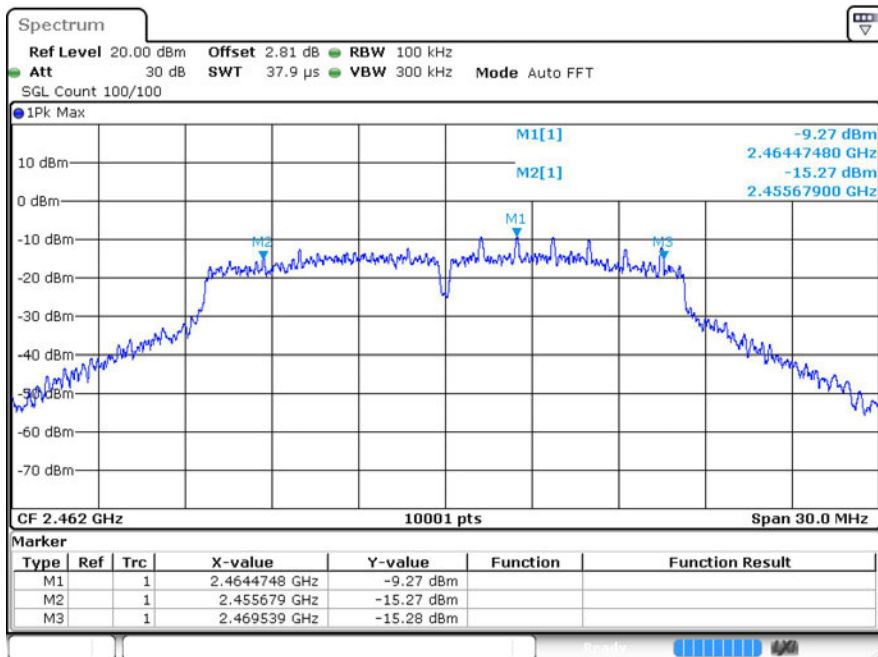


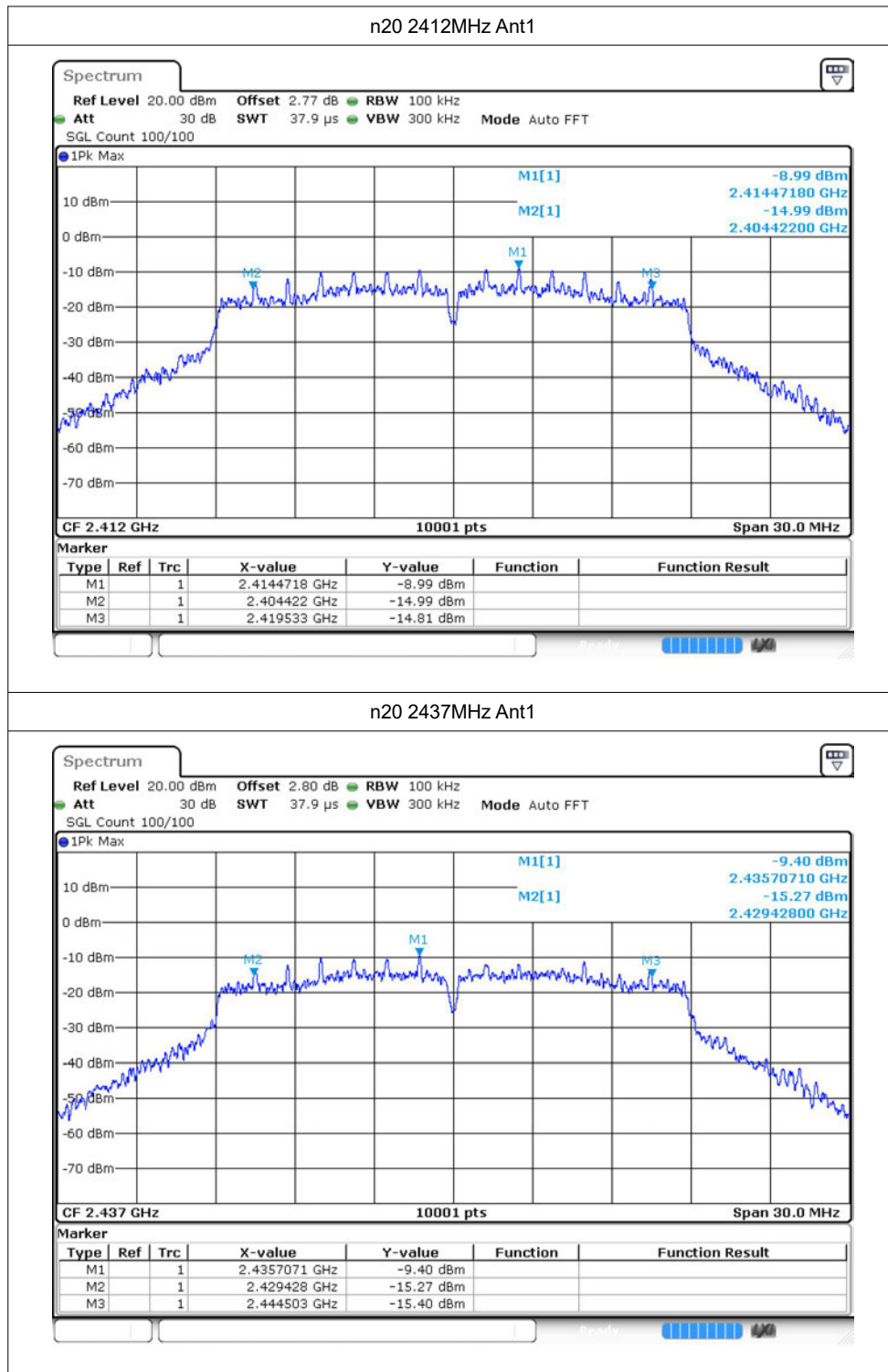


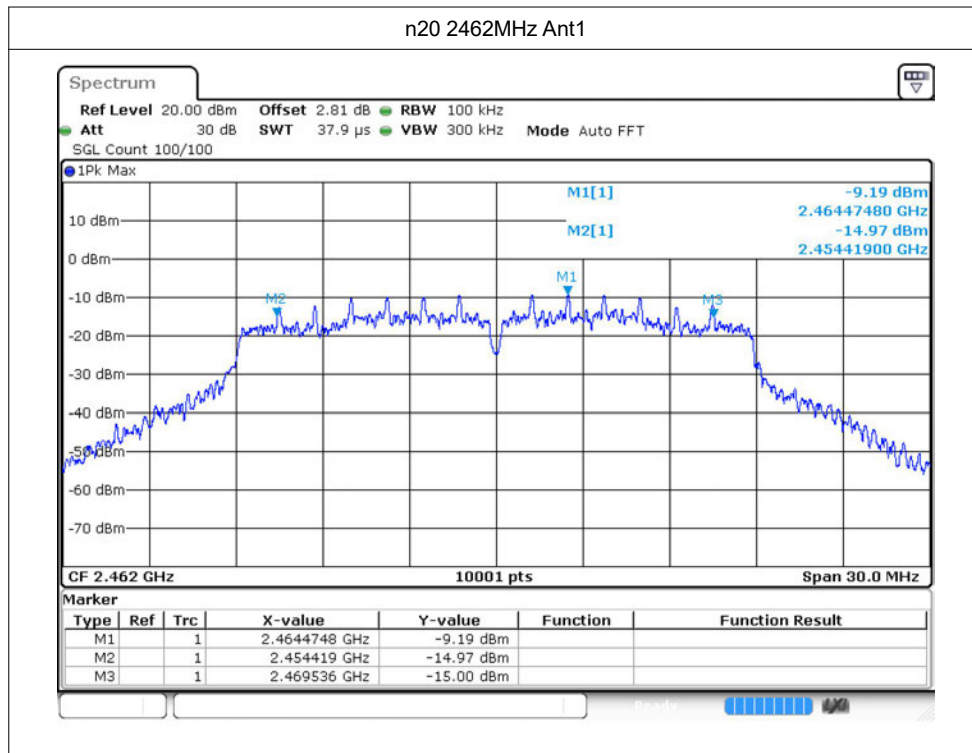
g 2437MHz Ant1



g 2462MHz Ant1





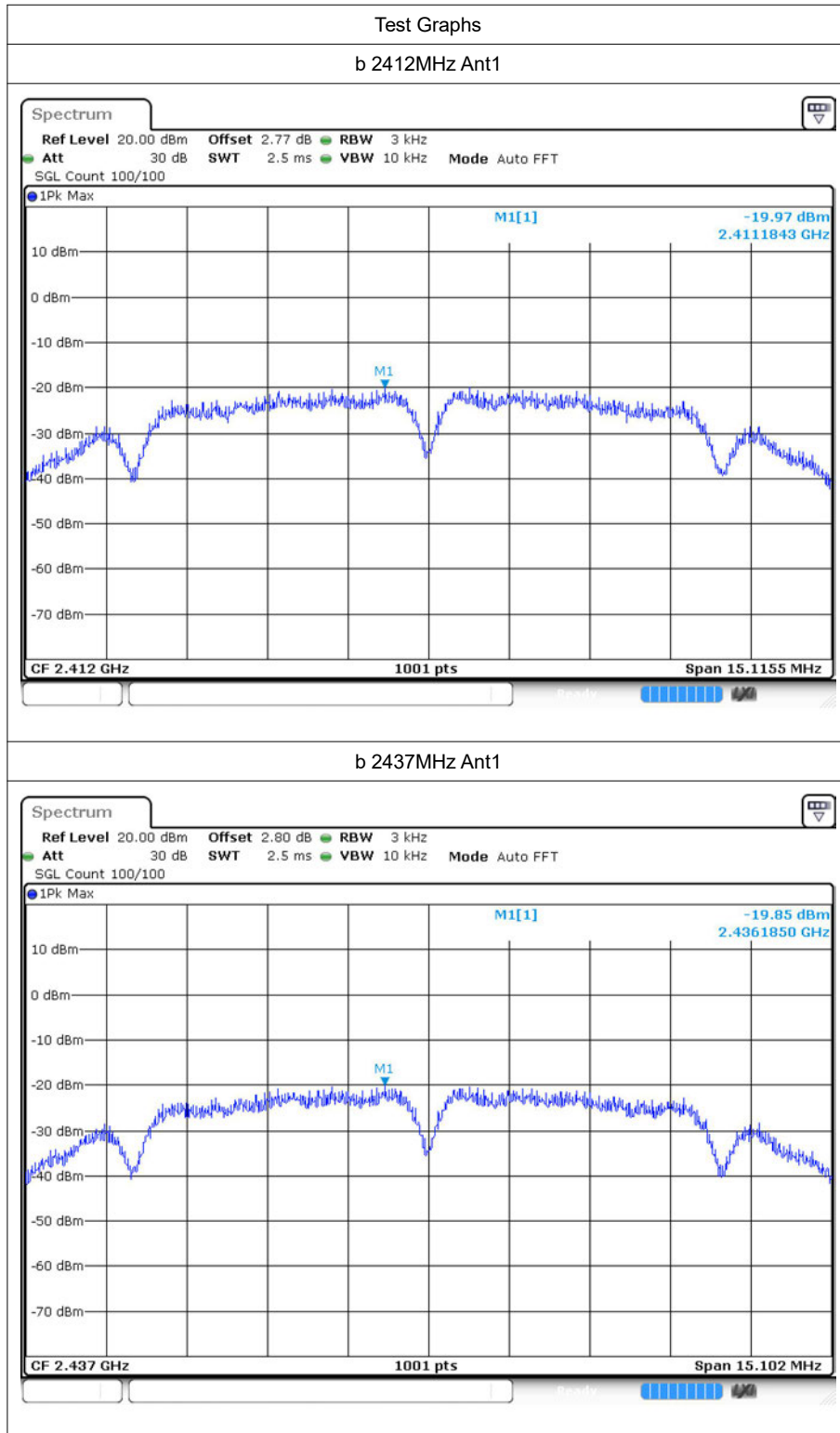


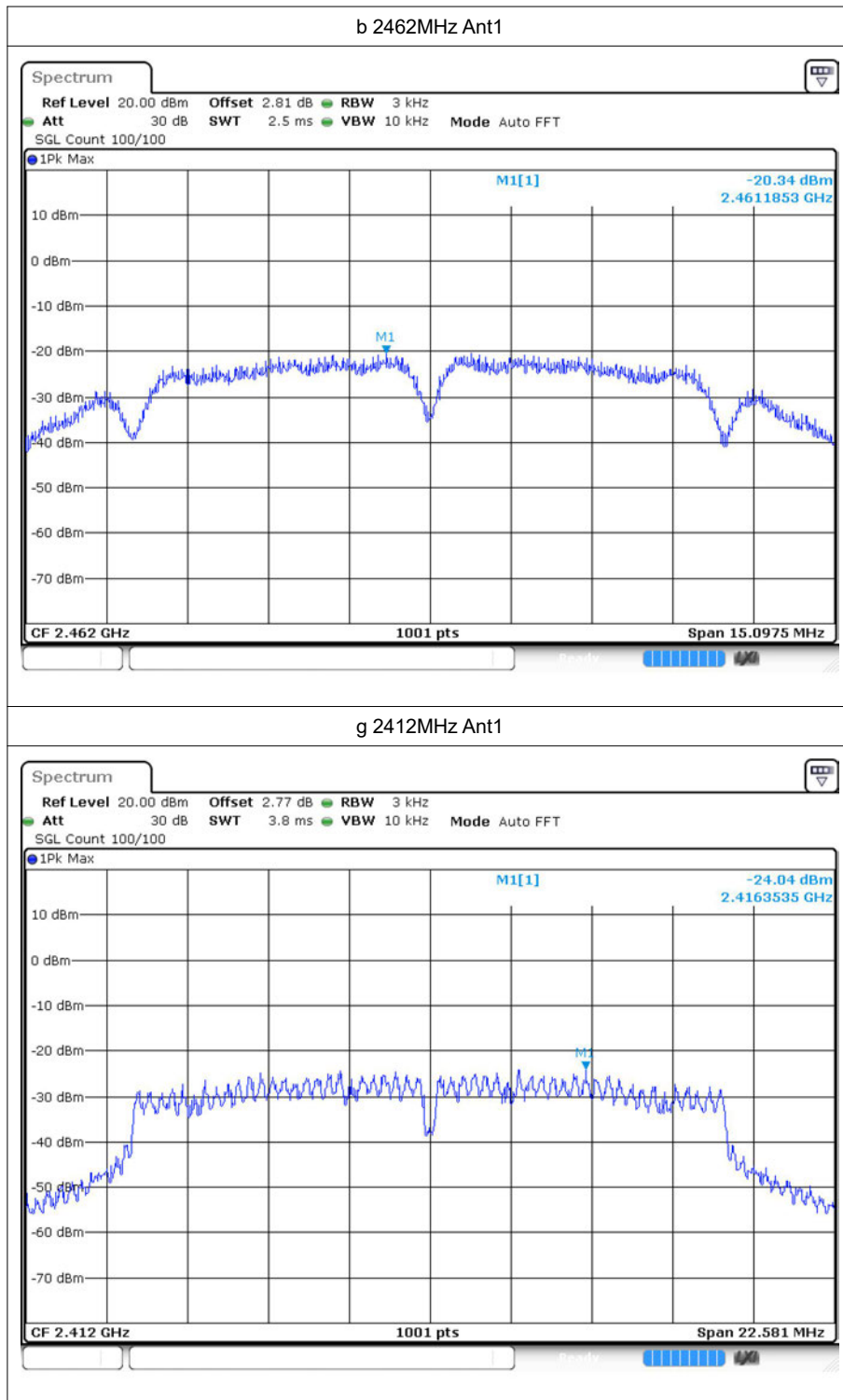
4 Maximum Power Spectral Density Level

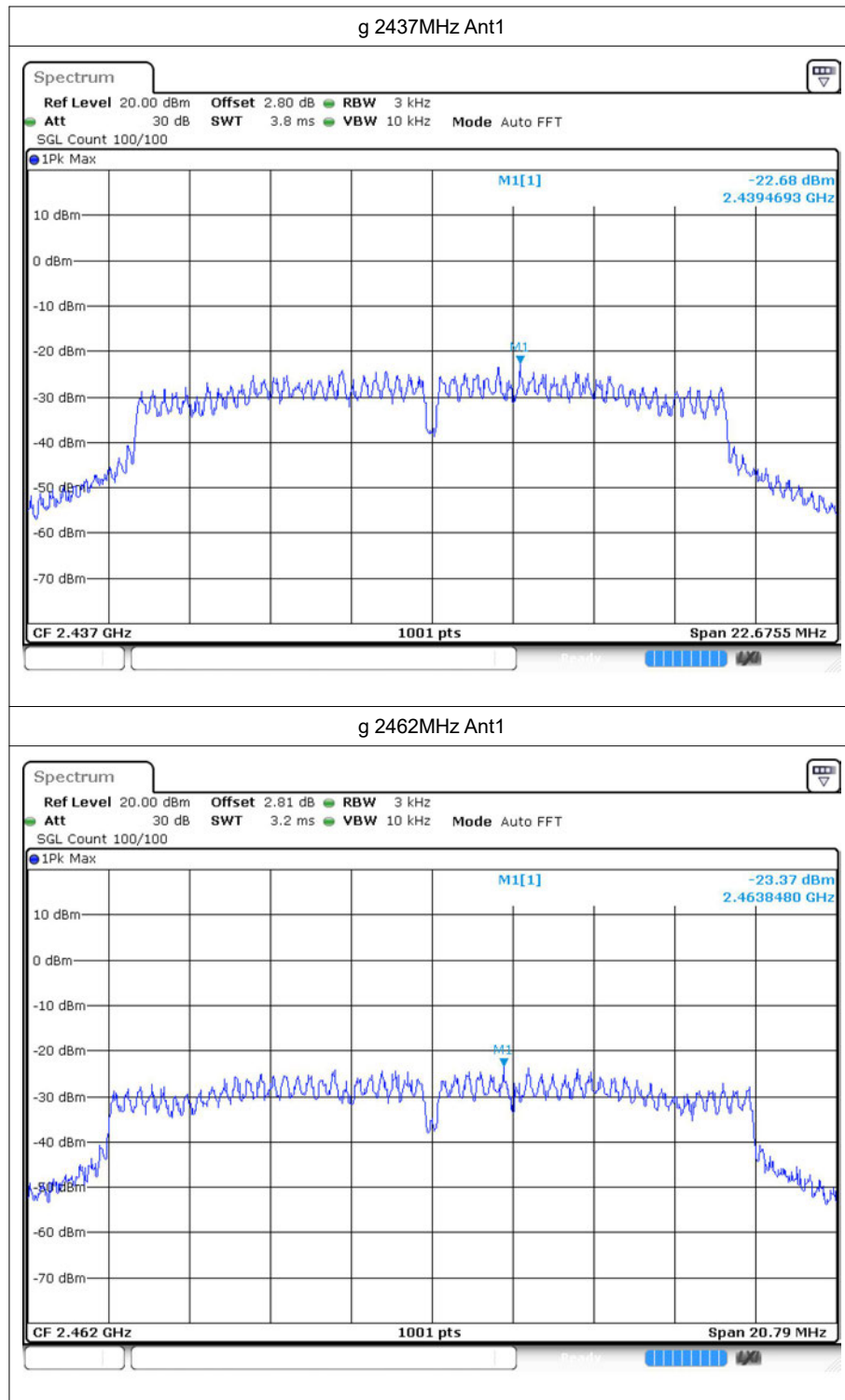
4.1 Test Result

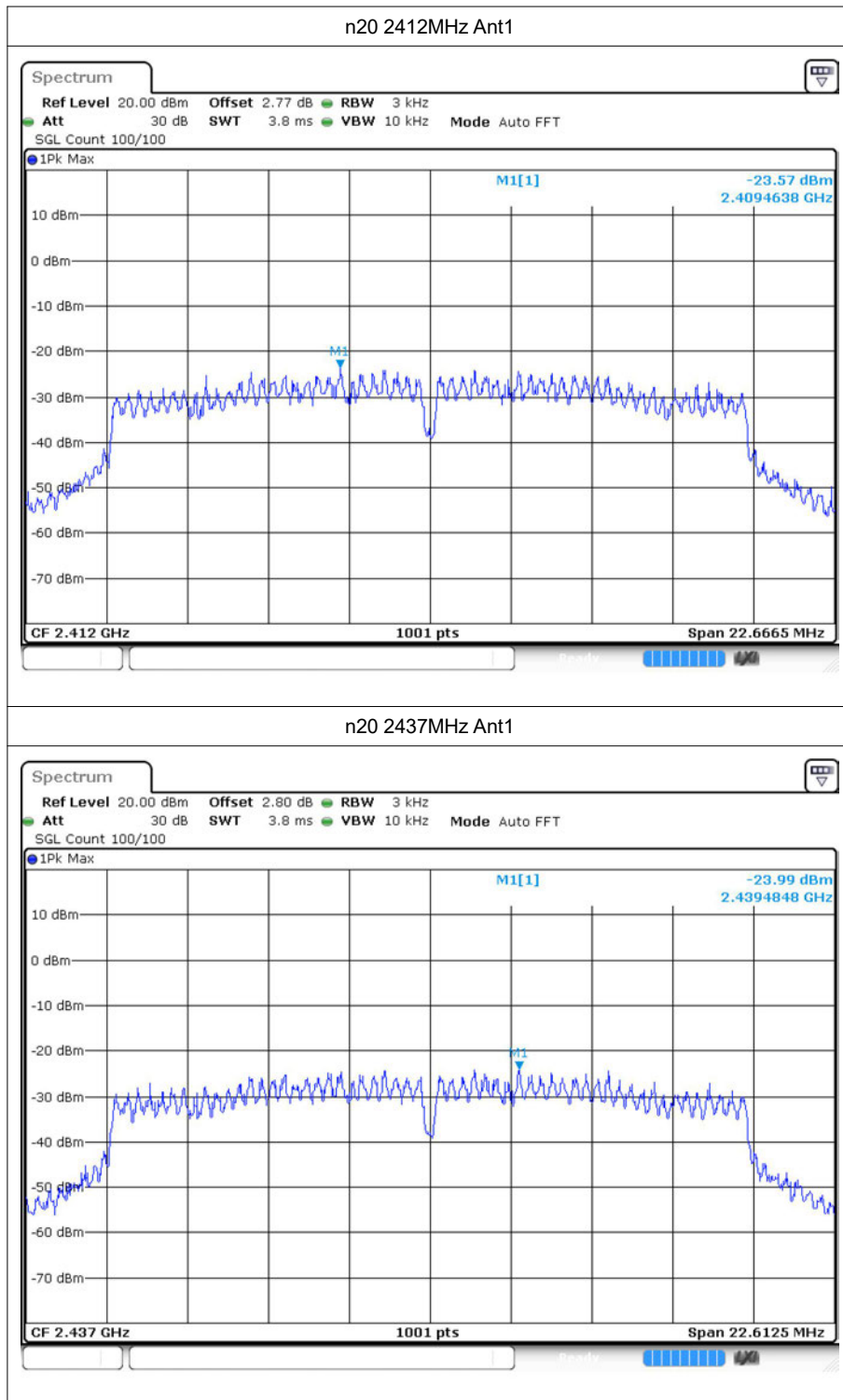
Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3-100kHz)	Limit (dBm/3kHz)	Verdict
b	2412	Ant1	-19.97	≤ 8	Pass
b	2437	Ant1	-19.85	≤ 8	Pass
b	2462	Ant1	-20.34	≤ 8	Pass
g	2412	Ant1	-24.04	≤ 8	Pass
g	2437	Ant1	-22.68	≤ 8	Pass
g	2462	Ant1	-23.37	≤ 8	Pass
n20	2412	Ant1	-23.57	≤ 8	Pass
n20	2437	Ant1	-23.99	≤ 8	Pass
n20	2462	Ant1	-23.88	≤ 8	Pass

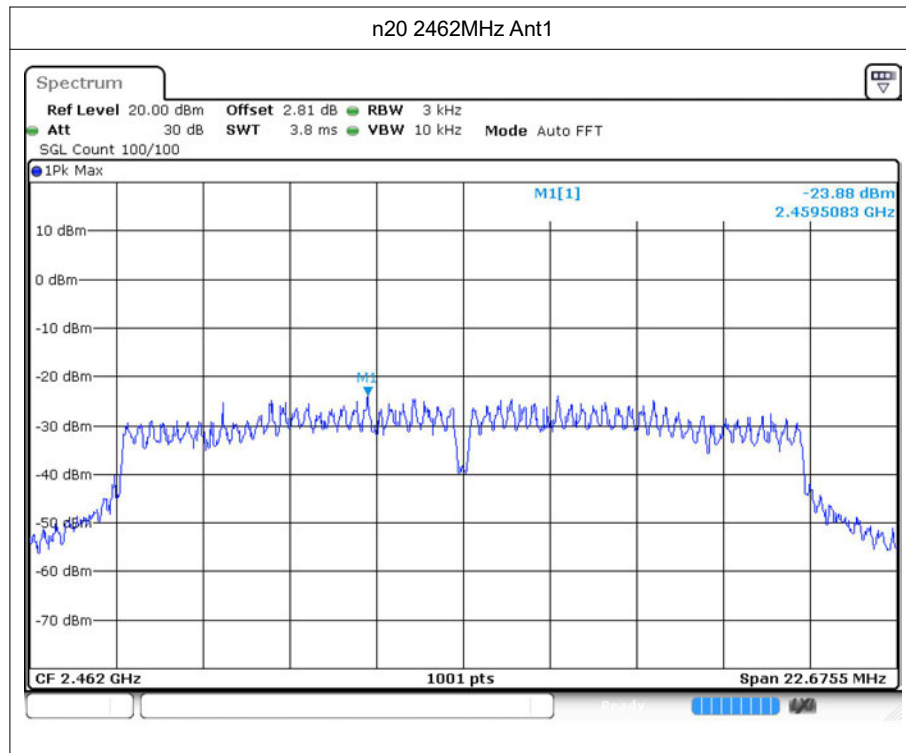
4.2 Test Graphs











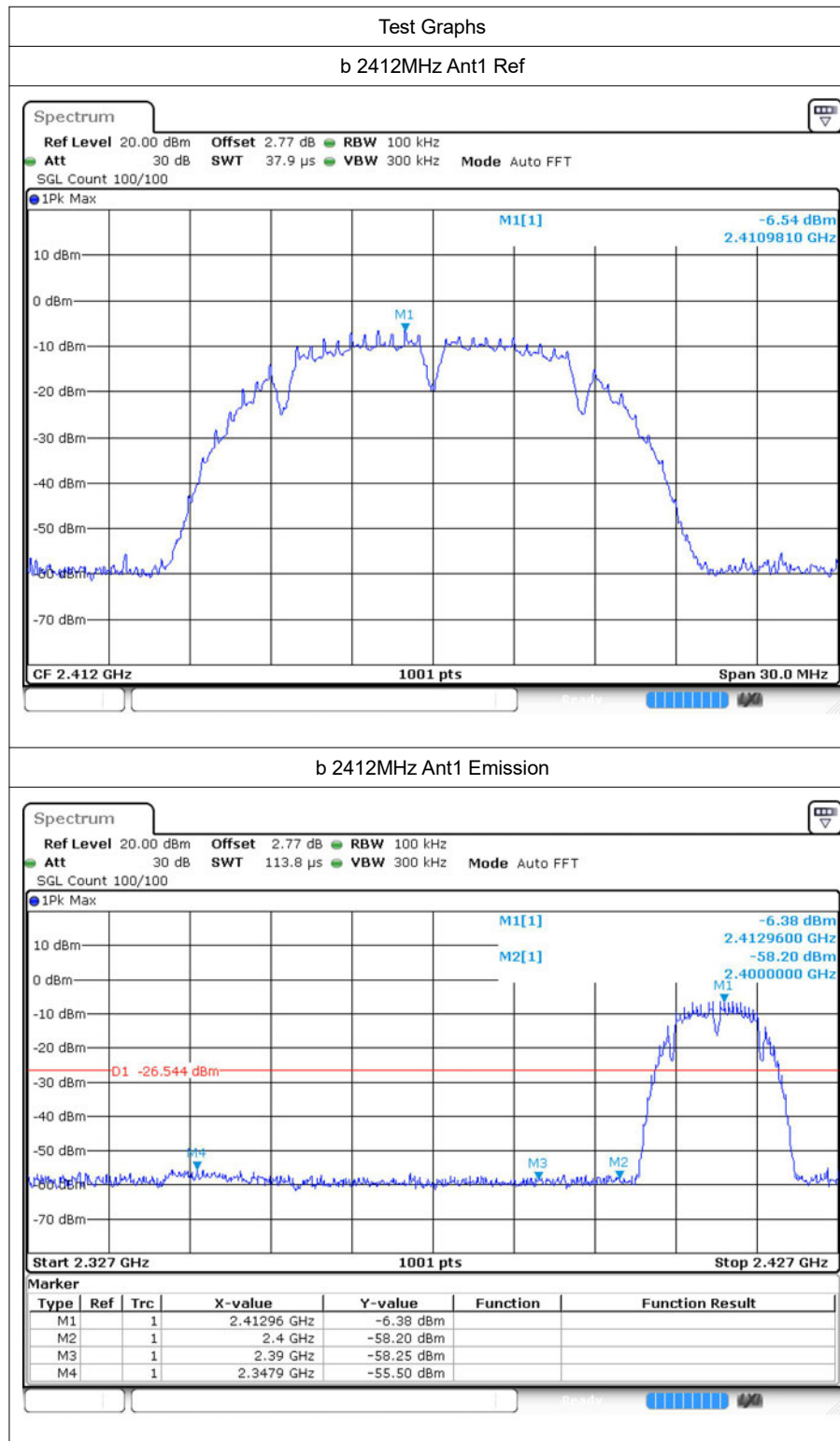


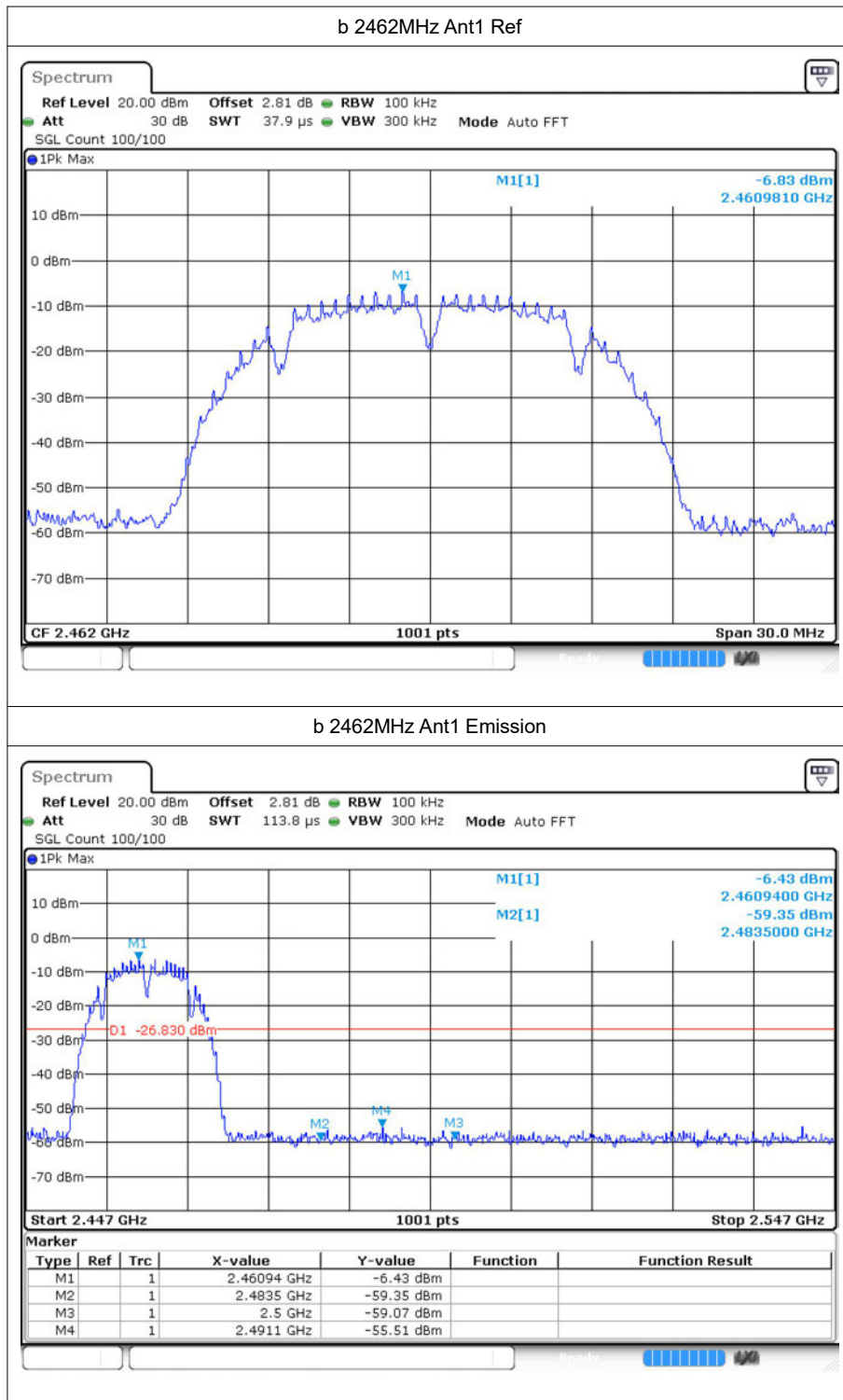
5 Band Edge

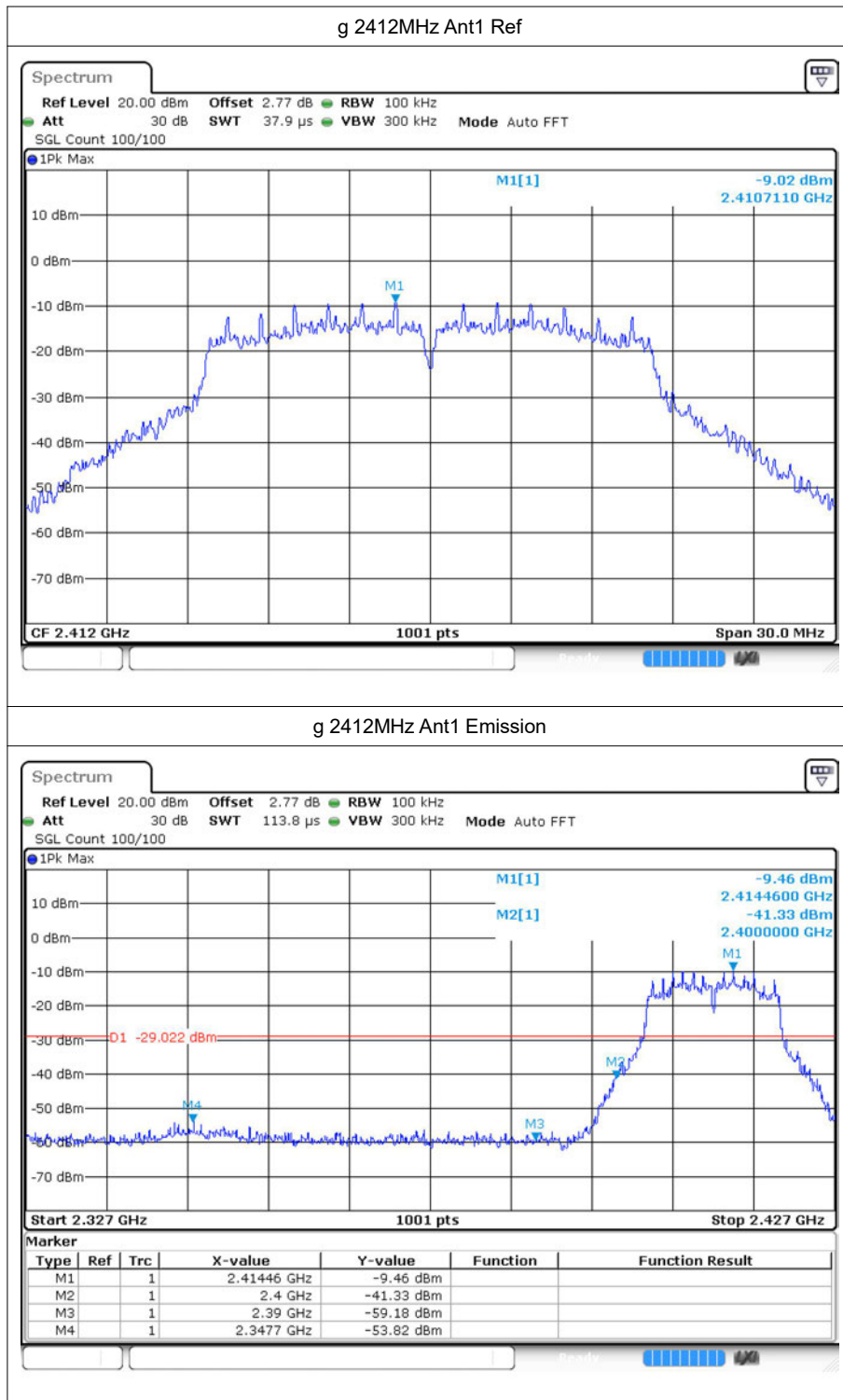
5.1 Test Result

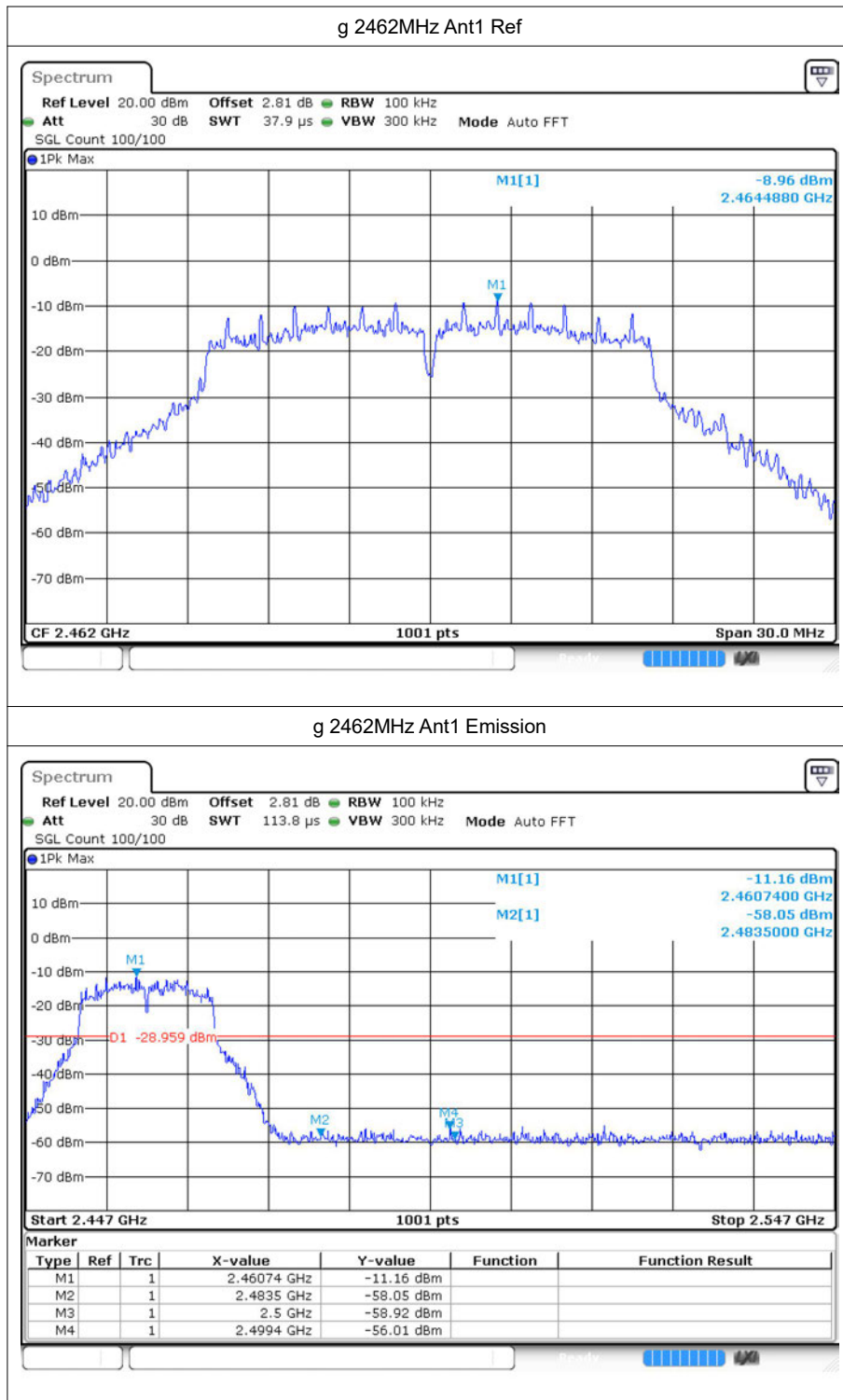
Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
b	2412	Ant1	-48.95	-20	Pass
b	2462	Ant1	-48.67	-20	Pass
g	2412	Ant1	-44.79	-20	Pass
g	2462	Ant1	-47.05	-20	Pass
n20	2412	Ant1	-45.56	-20	Pass
n20	2462	Ant1	-47.16	-20	Pass

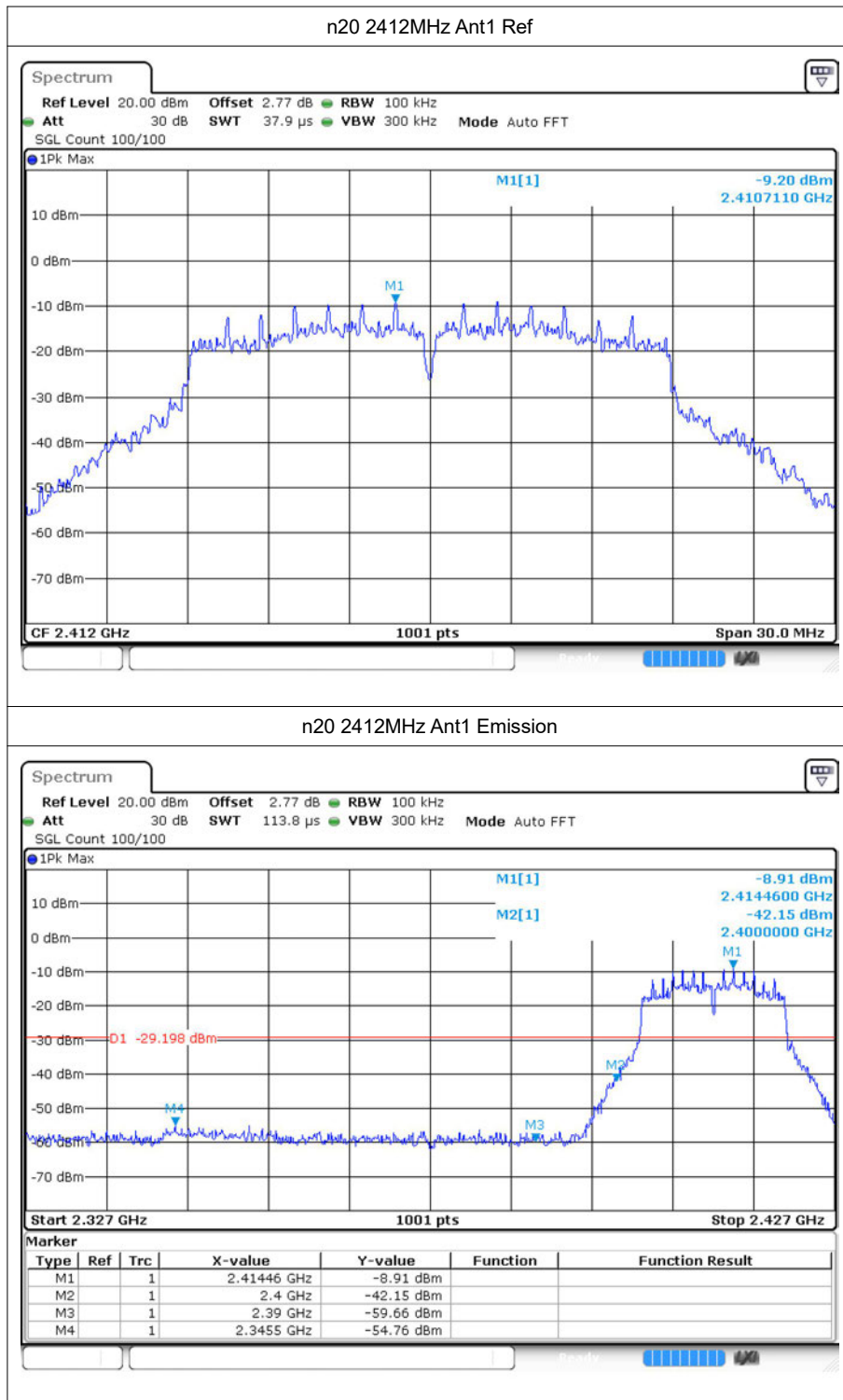
5.2 Test Graphs

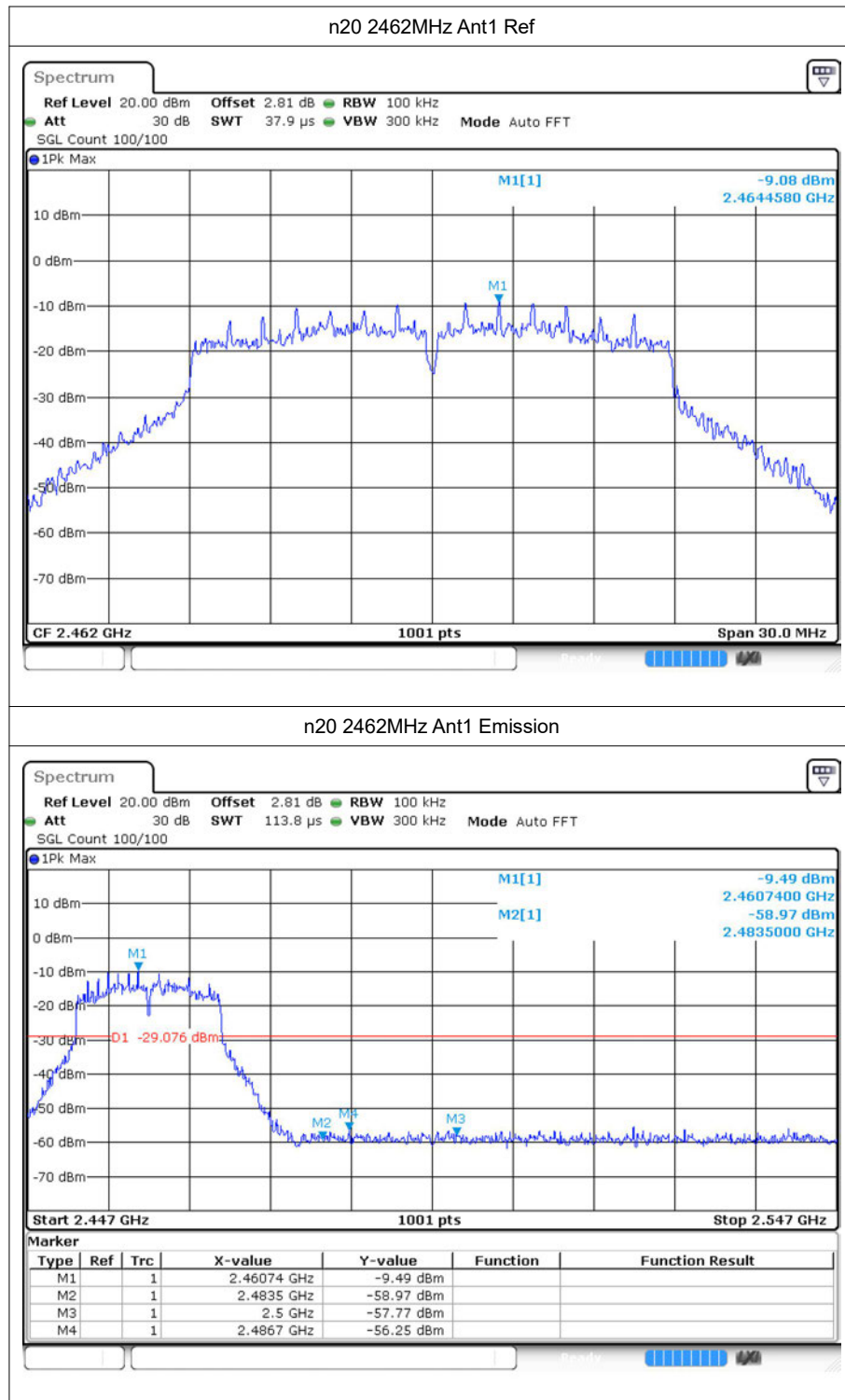










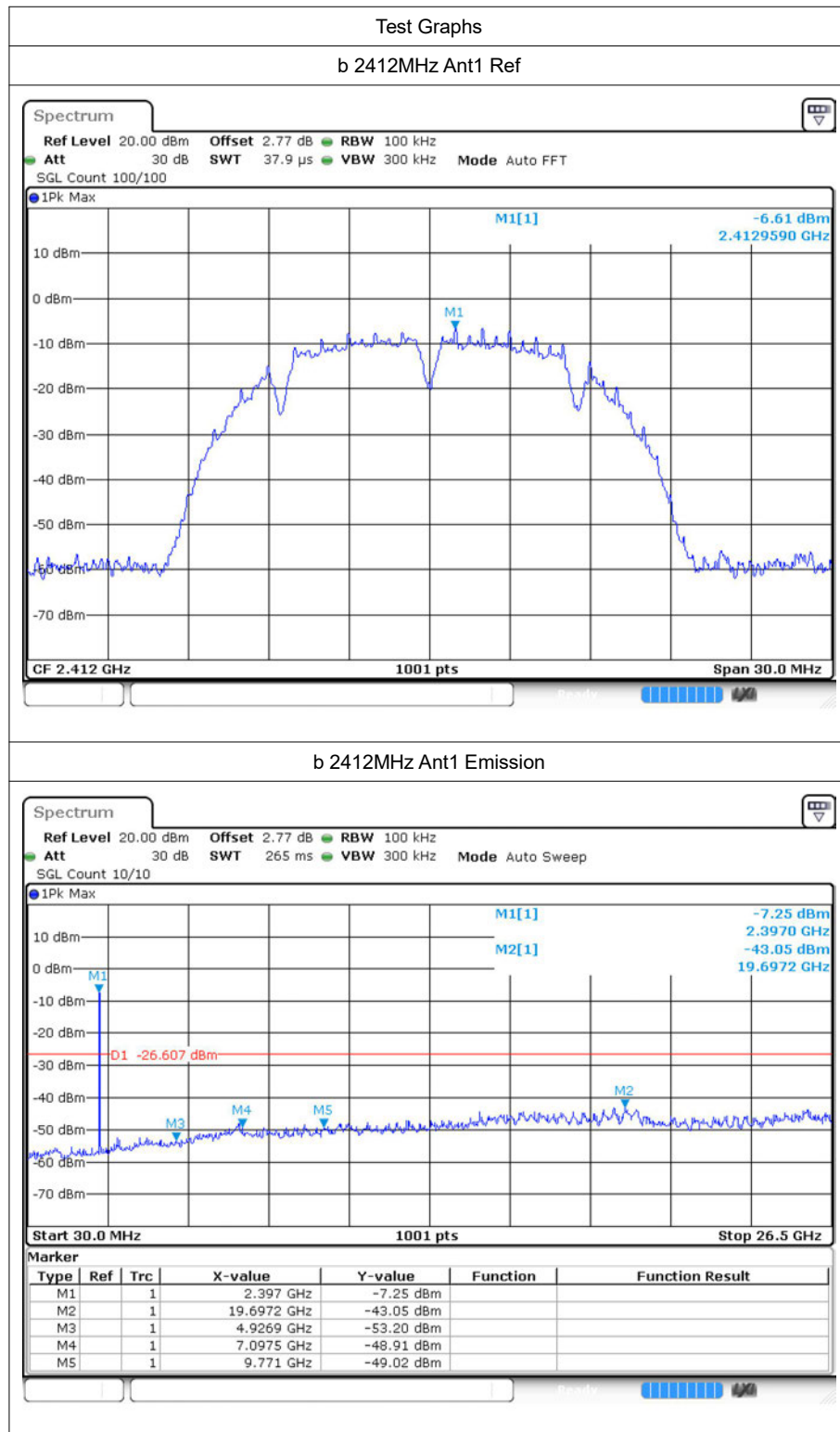


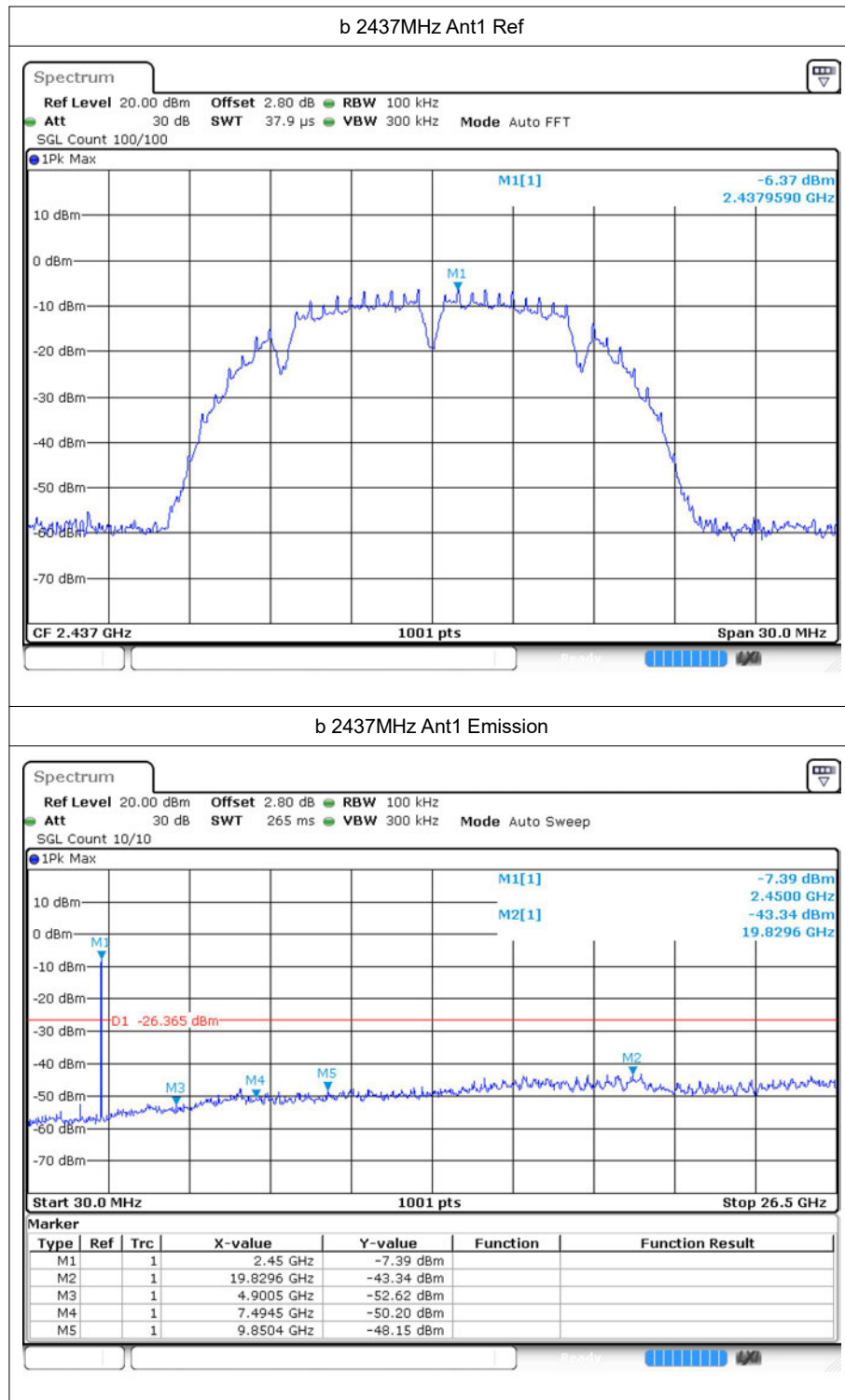
6 Conducted RF Spurious Emission

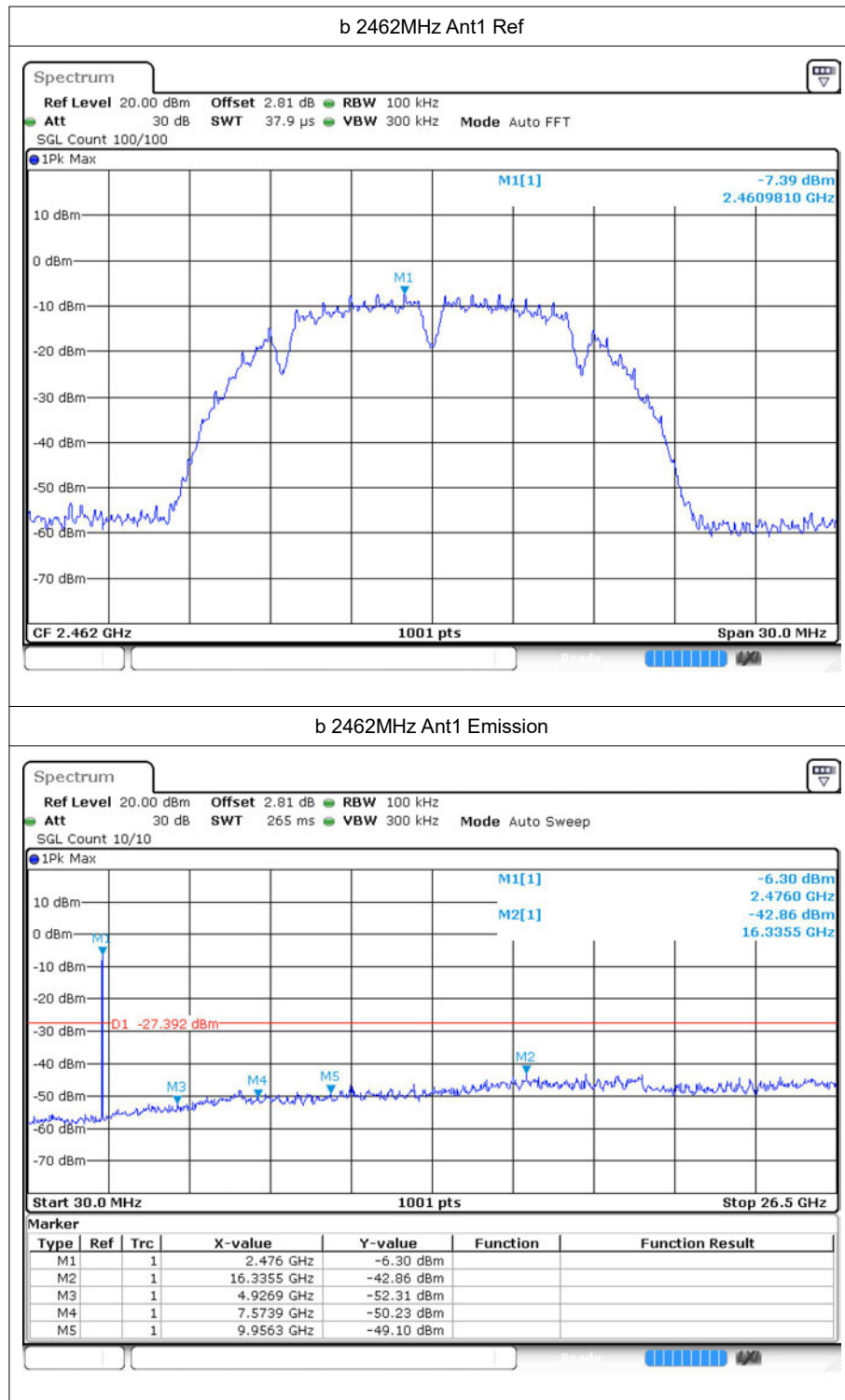
6.1 Test Result

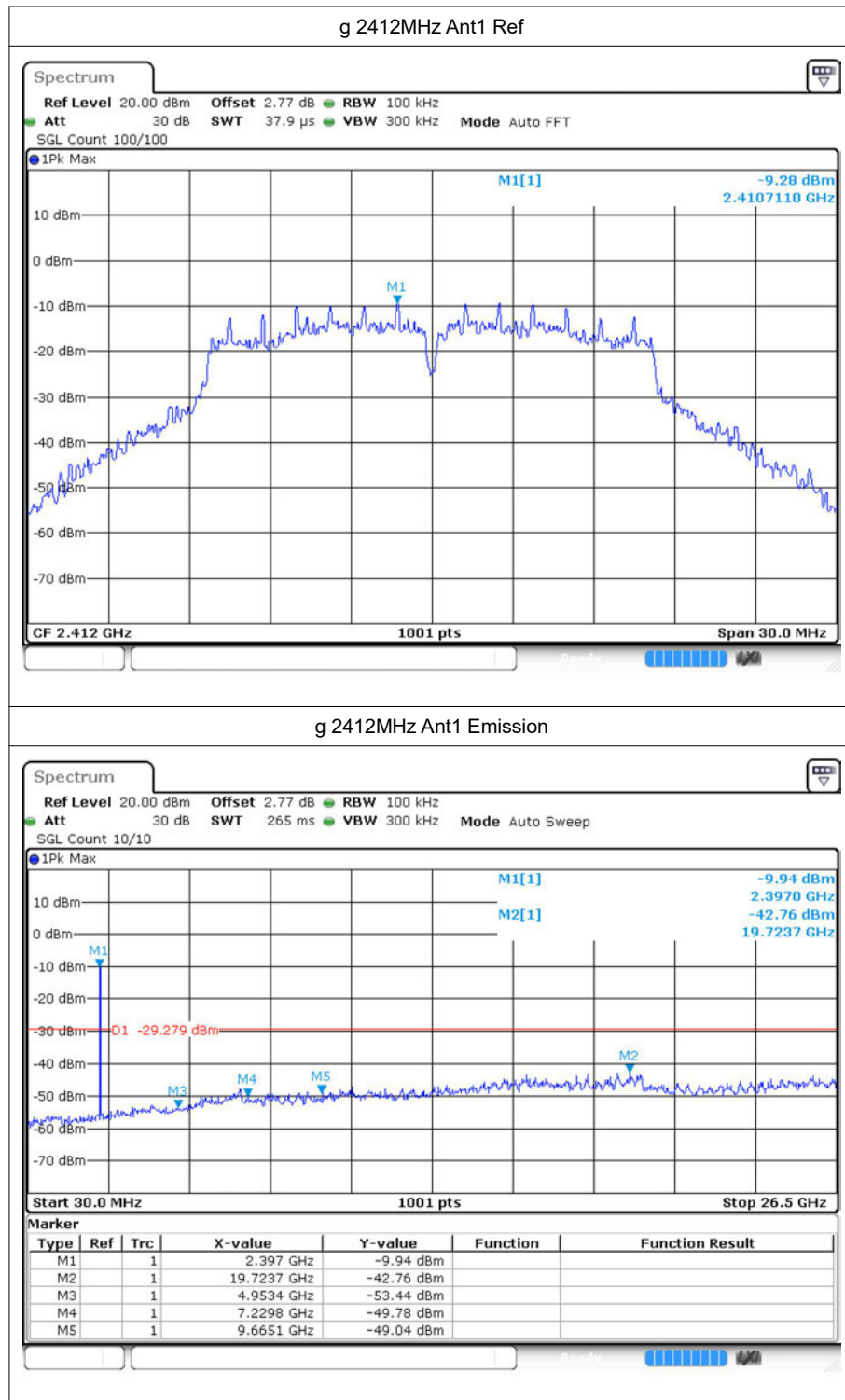
Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
b	2412	Ant1	-36.44	-20	Pass
b	2437	Ant1	-36.96	-20	Pass
b	2462	Ant1	-35.47	-20	Pass
g	2412	Ant1	-33.47	-20	Pass
g	2437	Ant1	-34.59	-20	Pass
g	2462	Ant1	-33.72	-20	Pass
n20	2412	Ant1	-34.29	-20	Pass
n20	2437	Ant1	-32.89	-20	Pass
n20	2462	Ant1	-33.62	-20	Pass

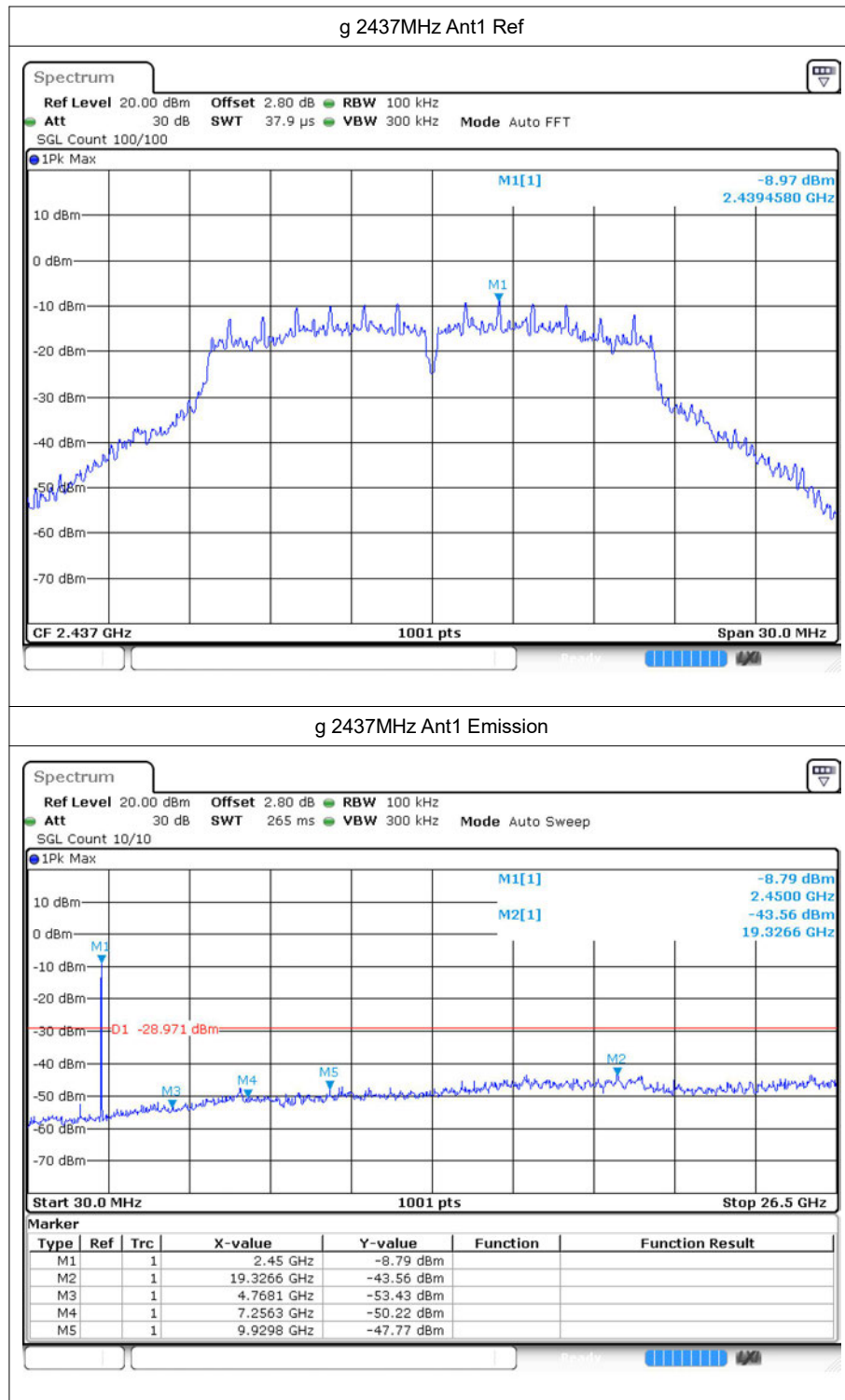
6.2 Test Graphs

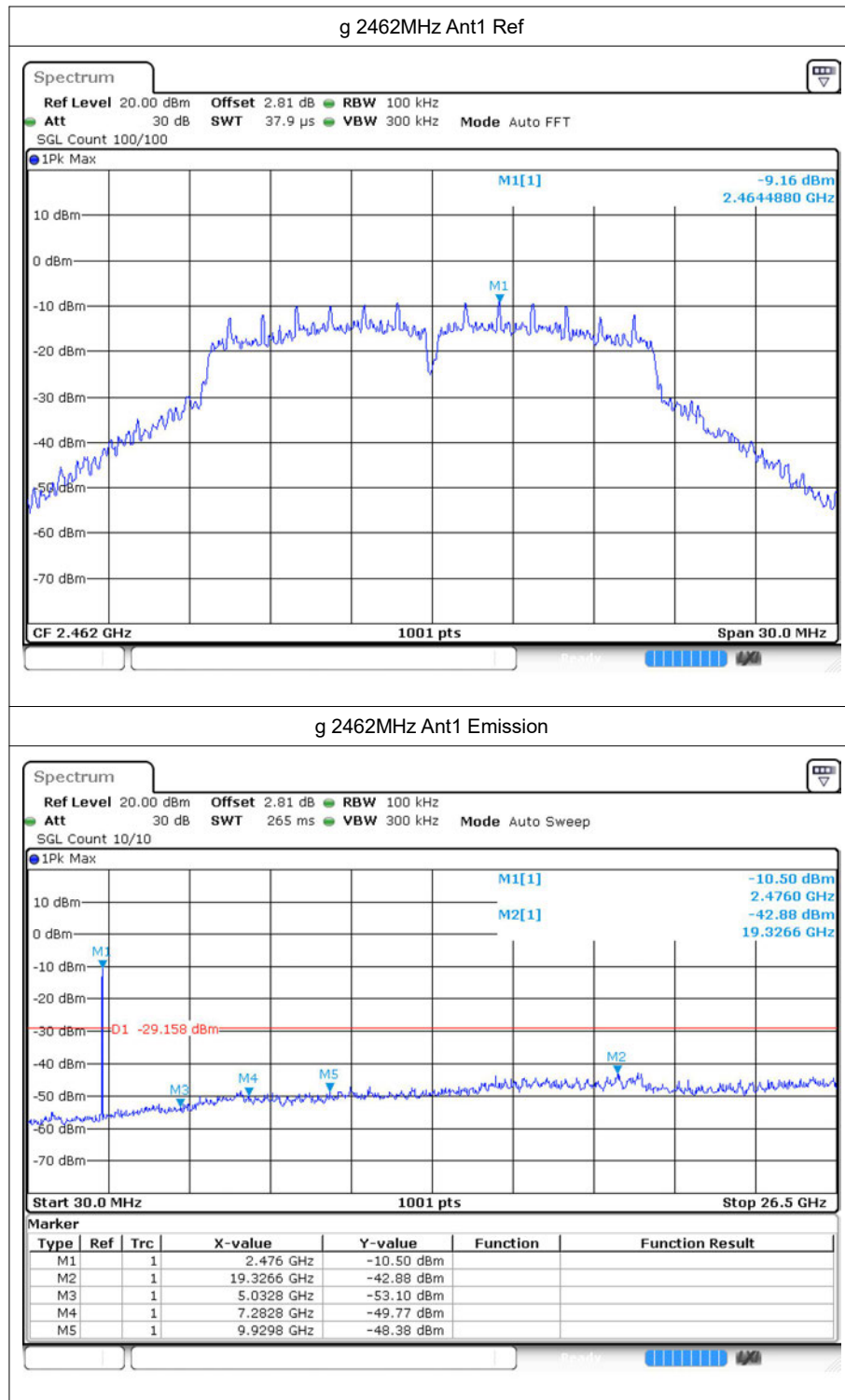


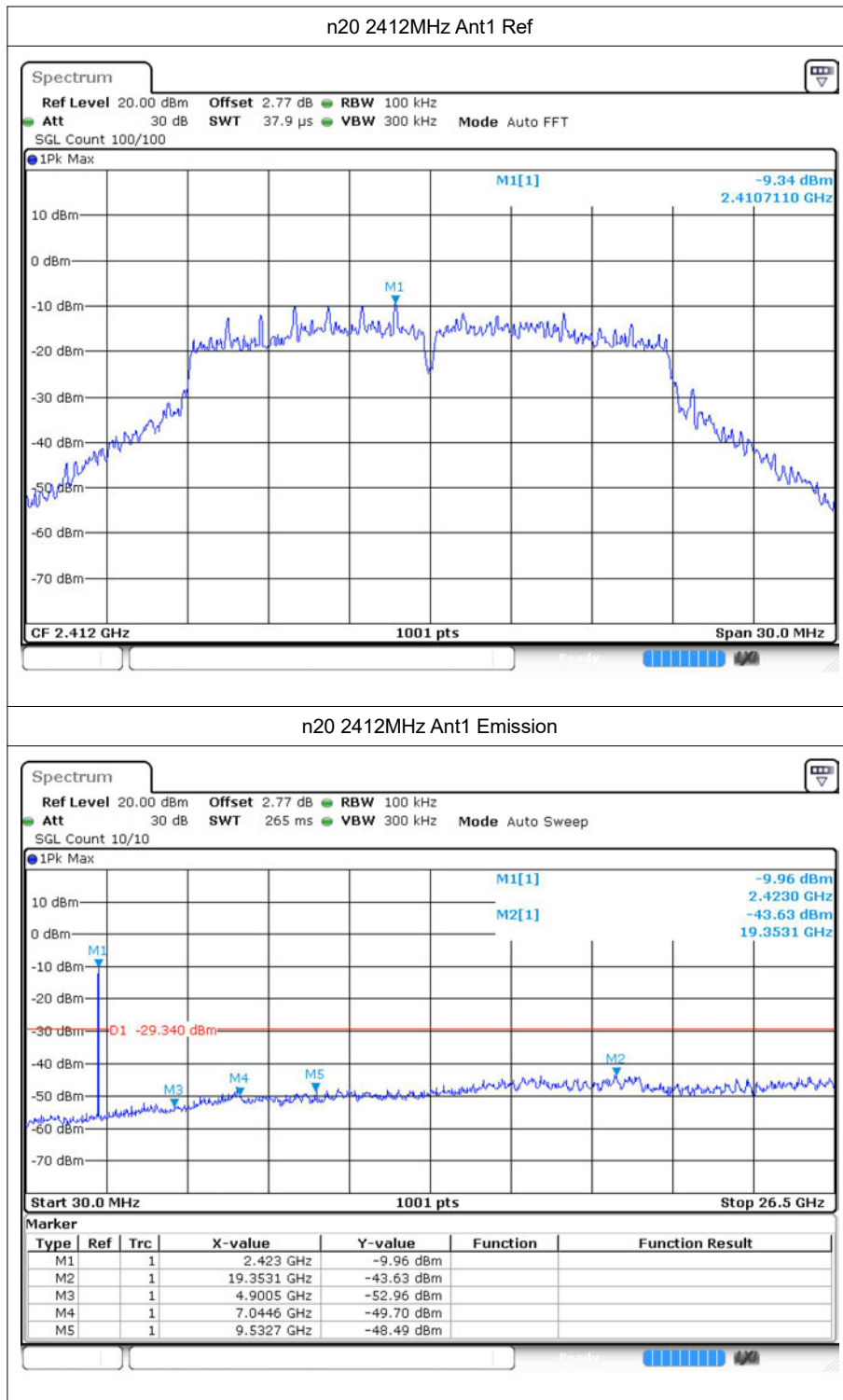


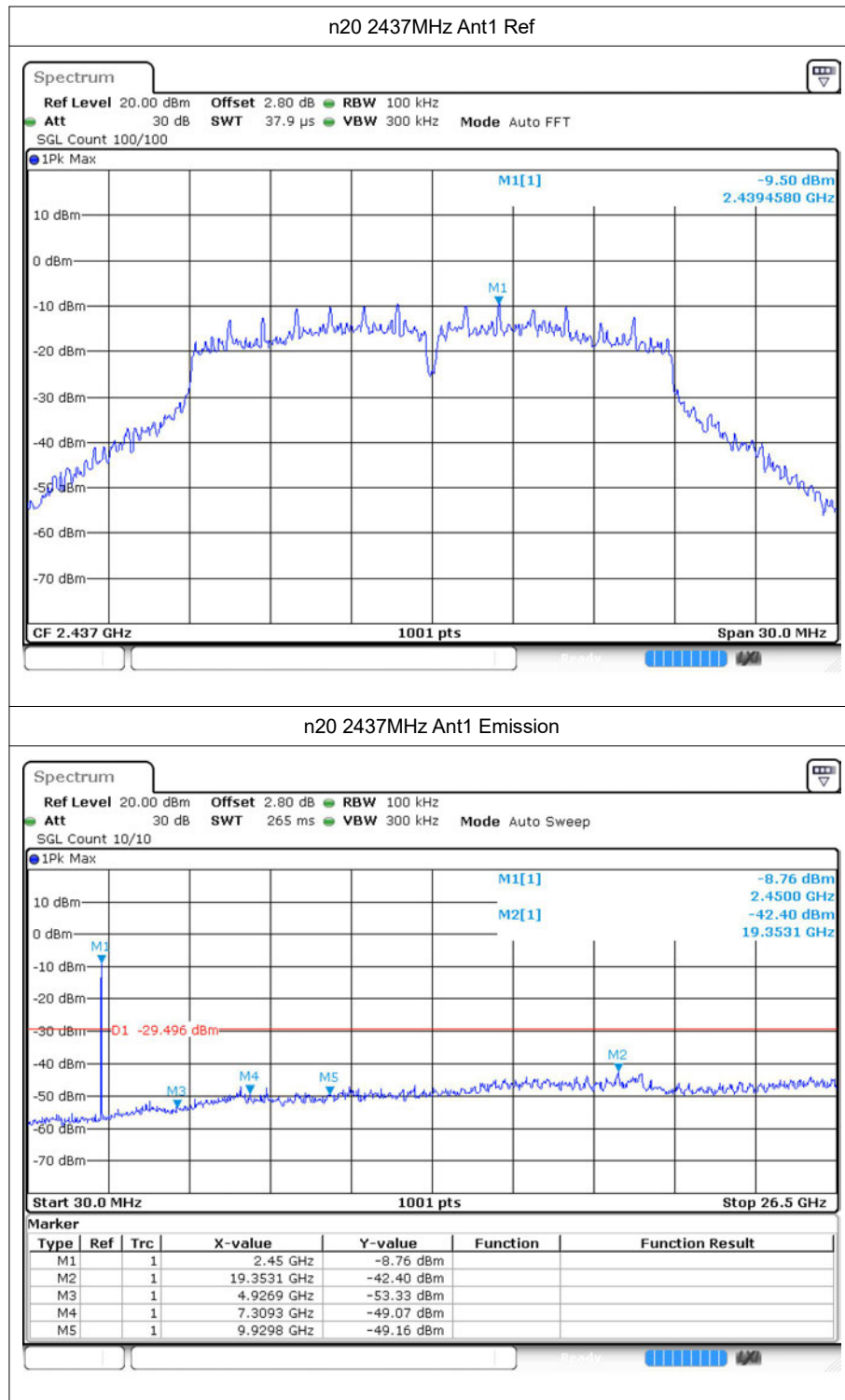


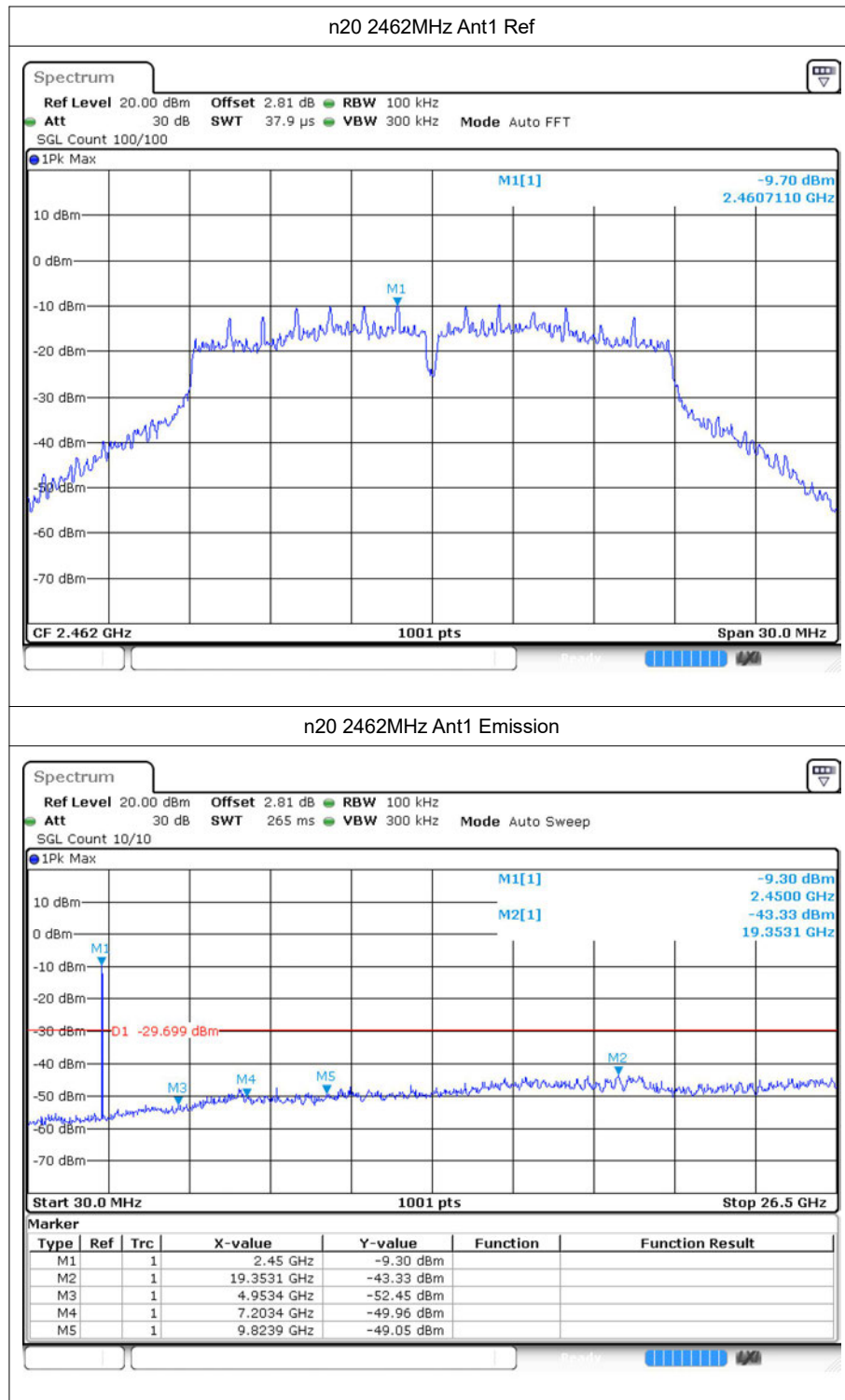














7 Restrict Band

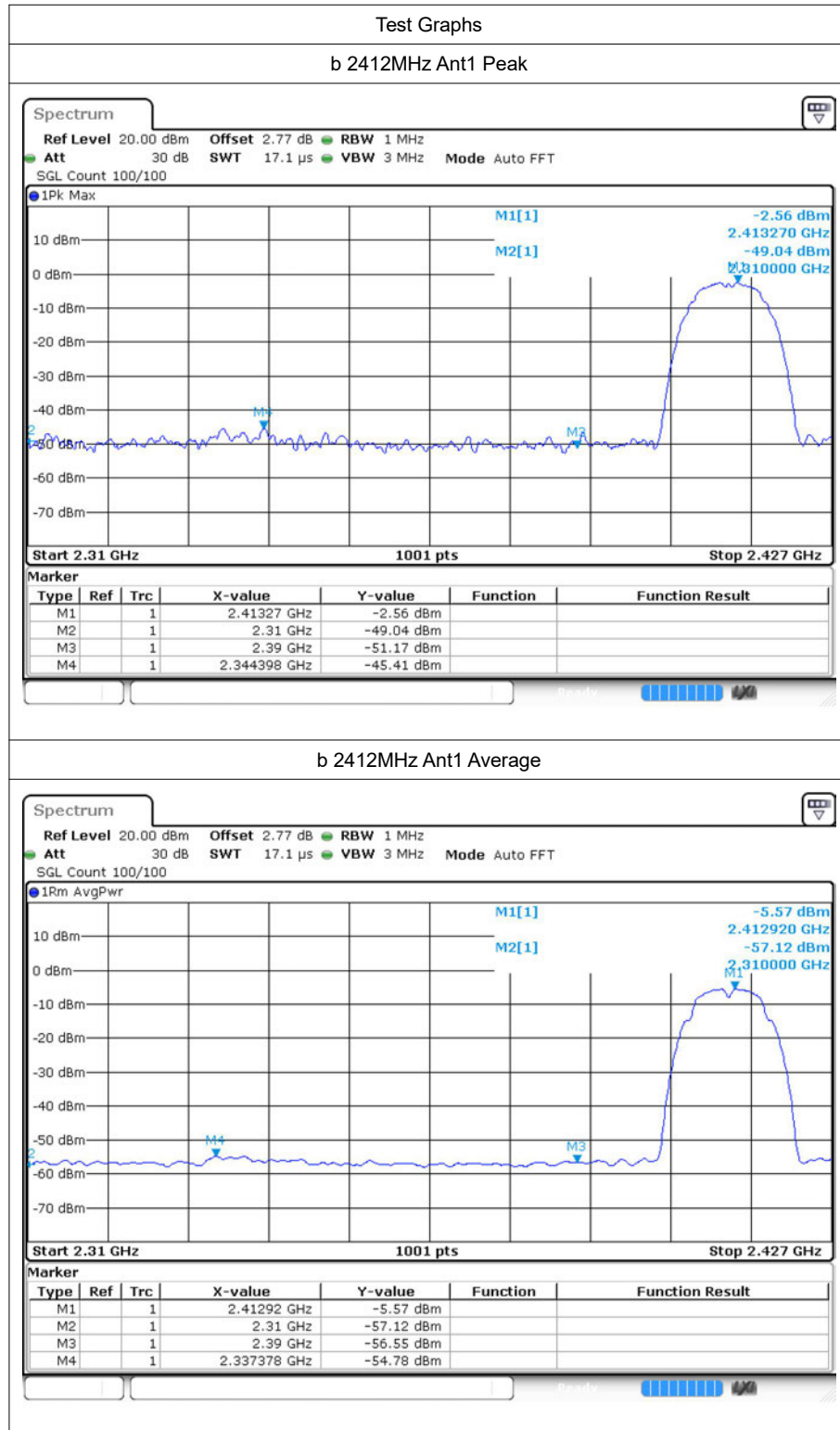
7.1 Test Result

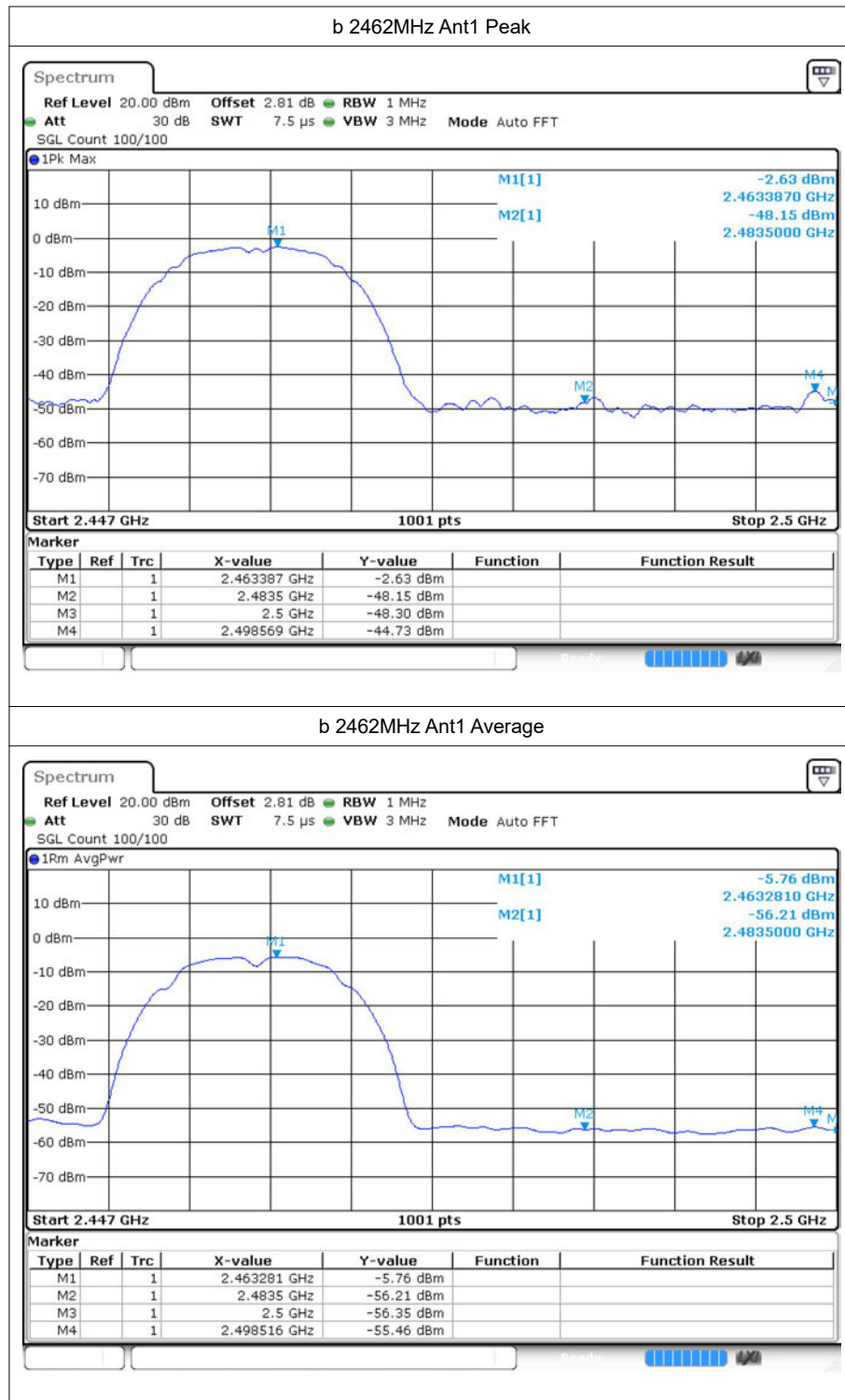
Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
b	2412	Ant1	2310	-49.04	3.82	-	50.01	Peak	74	Pass
b	2412	Ant1	2310	-57.12	3.82	0	41.93	Average	54	Pass
b	2412	Ant1	2344.398	-45.4	3.82	-	53.65	Peak	74	Pass
b	2412	Ant1	2337.378	-54.77	3.82	0	44.28	Average	54	Pass
b	2412	Ant1	2390	-51.17	3.82	-	47.88	Peak	74	Pass
b	2412	Ant1	2390	-56.55	3.82	0	42.5	Average	54	Pass
b	2462	Ant1	2483.5	-48.15	3.82	-	50.9	Peak	74	Pass
b	2462	Ant1	2483.5	-56.21	3.82	0	42.84	Average	54	Pass
b	2462	Ant1	2498.569	-44.73	3.82	-	54.32	Peak	74	Pass
b	2462	Ant1	2498.516	-55.45	3.82	0	43.6	Average	54	Pass
b	2462	Ant1	2500	-48.3	3.82	-	50.75	Peak	74	Pass
b	2462	Ant1	2500	-56.35	3.82	0	42.7	Average	54	Pass
g	2412	Ant1	2310	-48.68	3.82	-	50.37	Peak	74	Pass
g	2412	Ant1	2310	-56.46	3.82	0.61	43.2	Average	54	Pass
g	2412	Ant1	2337.846	-45.57	3.82	-	53.48	Peak	74	Pass
g	2412	Ant1	2336.676	-54.28	3.82	0.61	45.38	Average	54	Pass
g	2412	Ant1	2390	-50.37	3.82	-	48.68	Peak	74	Pass
g	2412	Ant1	2390	-57.95	3.82	0.61	41.71	Average	54	Pass
g	2462	Ant1	2483.5	-50.18	3.82	-	48.87	Peak	74	Pass
g	2462	Ant1	2483.5	-56.56	3.82	0.62	43.11	Average	54	Pass
g	2462	Ant1	2498.569	-48	3.82	-	51.05	Peak	74	Pass
g	2462	Ant1	2494.859	-55.51	3.82	0.62	44.16	Average	54	Pass
g	2462	Ant1	2500	-48.92	3.82	-	50.13	Peak	74	Pass
g	2462	Ant1	2500	-56.6	3.82	0.62	43.07	Average	54	Pass
n20	2412	Ant1	2310	-49.08	3.82	-	49.97	Peak	74	Pass
n20	2412	Ant1	2310	-56.88	3.82	0.58	42.75	Average	54	Pass
n20	2412	Ant1	2339.016	-45.61	3.82	-	53.44	Peak	74	Pass
n20	2412	Ant1	2337.261	-54.02	3.82	0.58	45.61	Average	54	Pass
n20	2412	Ant1	2390	-47.15	3.82	-	51.9	Peak	74	Pass
n20	2412	Ant1	2390	-56.96	3.82	0.58	42.67	Average	54	Pass
n20	2462	Ant1	2483.5	-49.02	3.82	-	50.03	Peak	74	Pass
n20	2462	Ant1	2483.5	-56.45	3.82	0.58	43.18	Average	54	Pass
n20	2462	Ant1	2497.138	-47.44	3.82	-	51.61	Peak	74	Pass
n20	2462	Ant1	2499.841	-55.47	3.82	0.58	44.16	Average	54	Pass

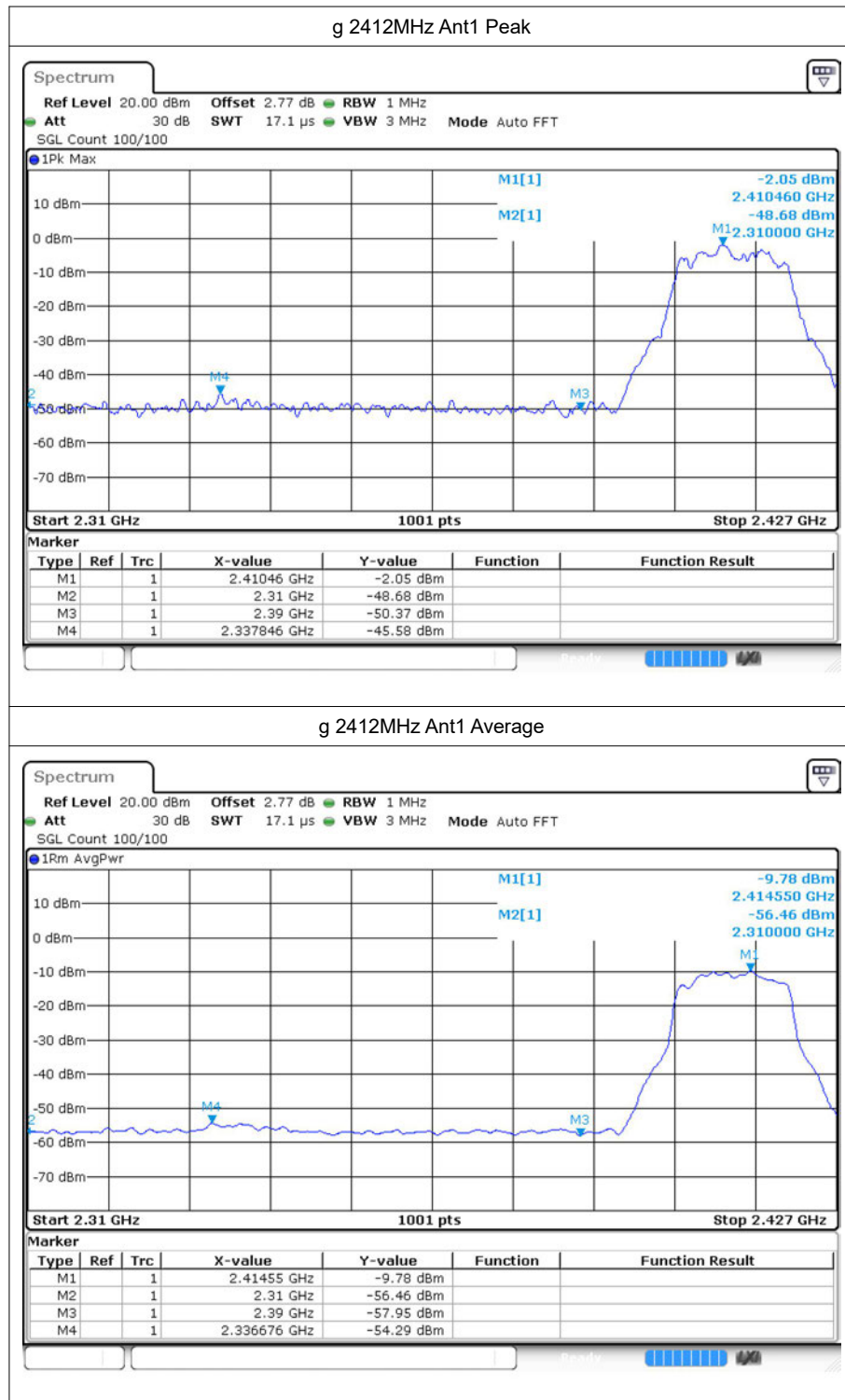


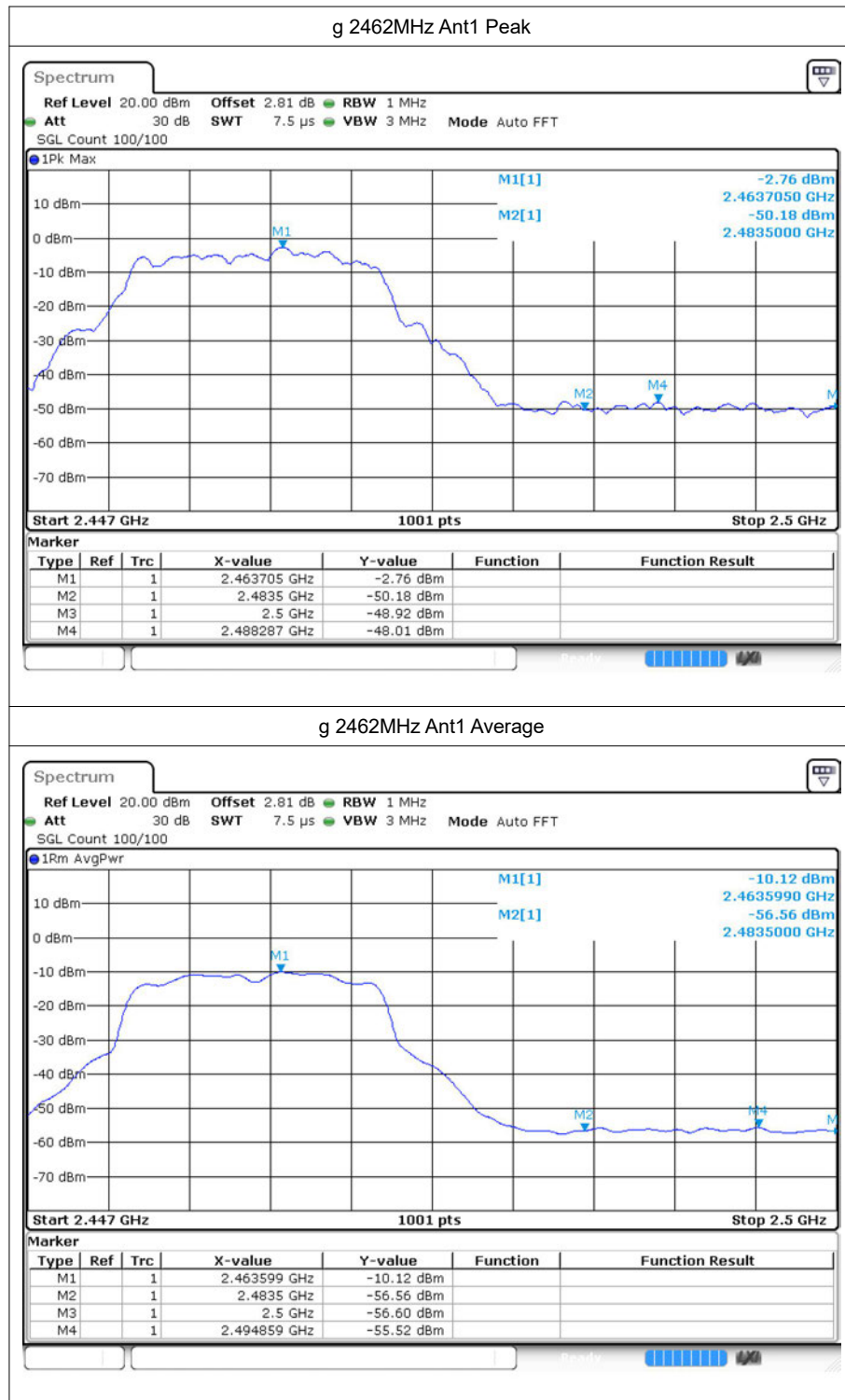
n20	2462	Ant1	2500	-48.49	3.82	-	50.56	Peak	74	Pass
n20	2462	Ant1	2500	-55.49	3.82	0.58	44.14	Average	54	Pass

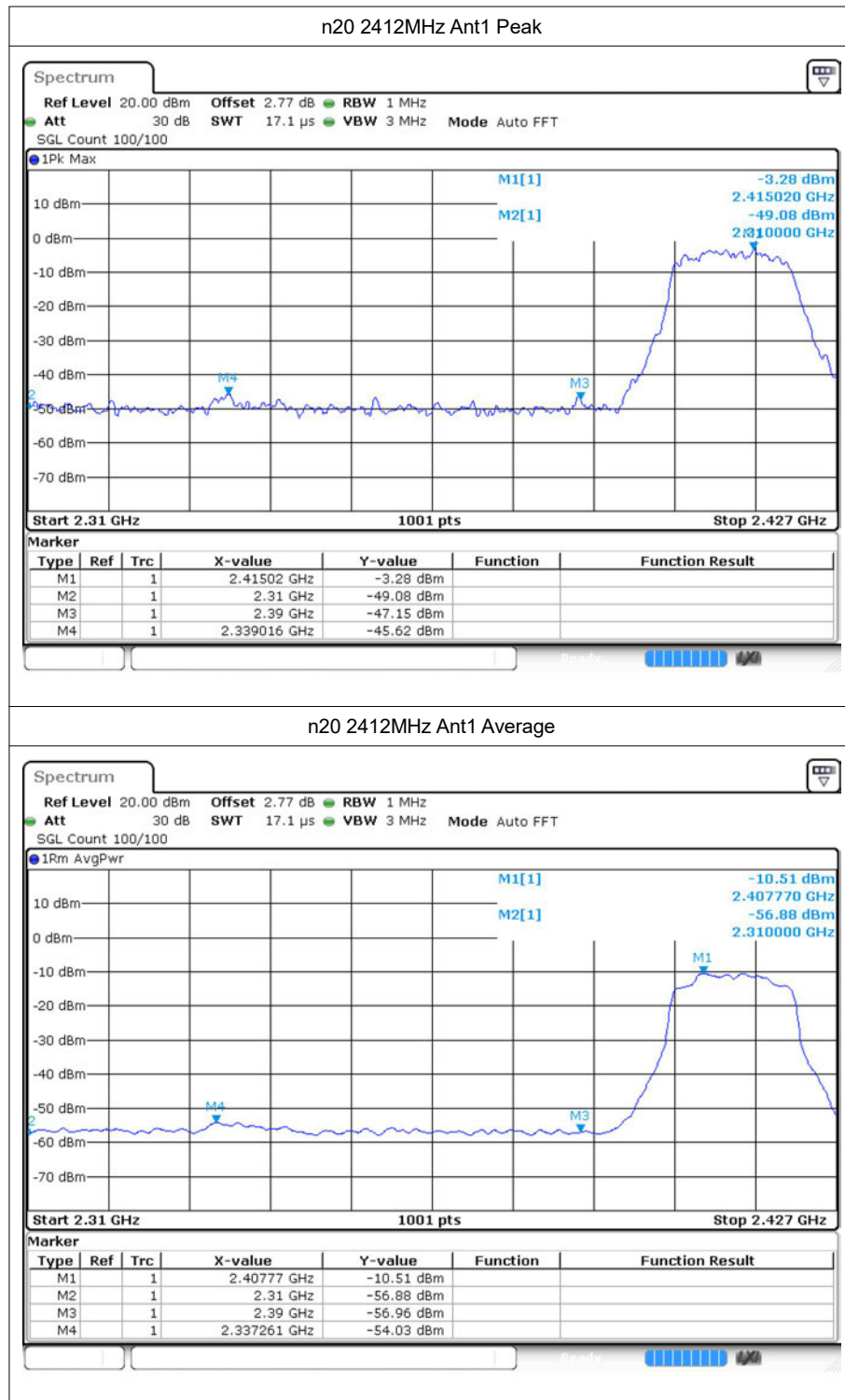
7.2 Test Graphs

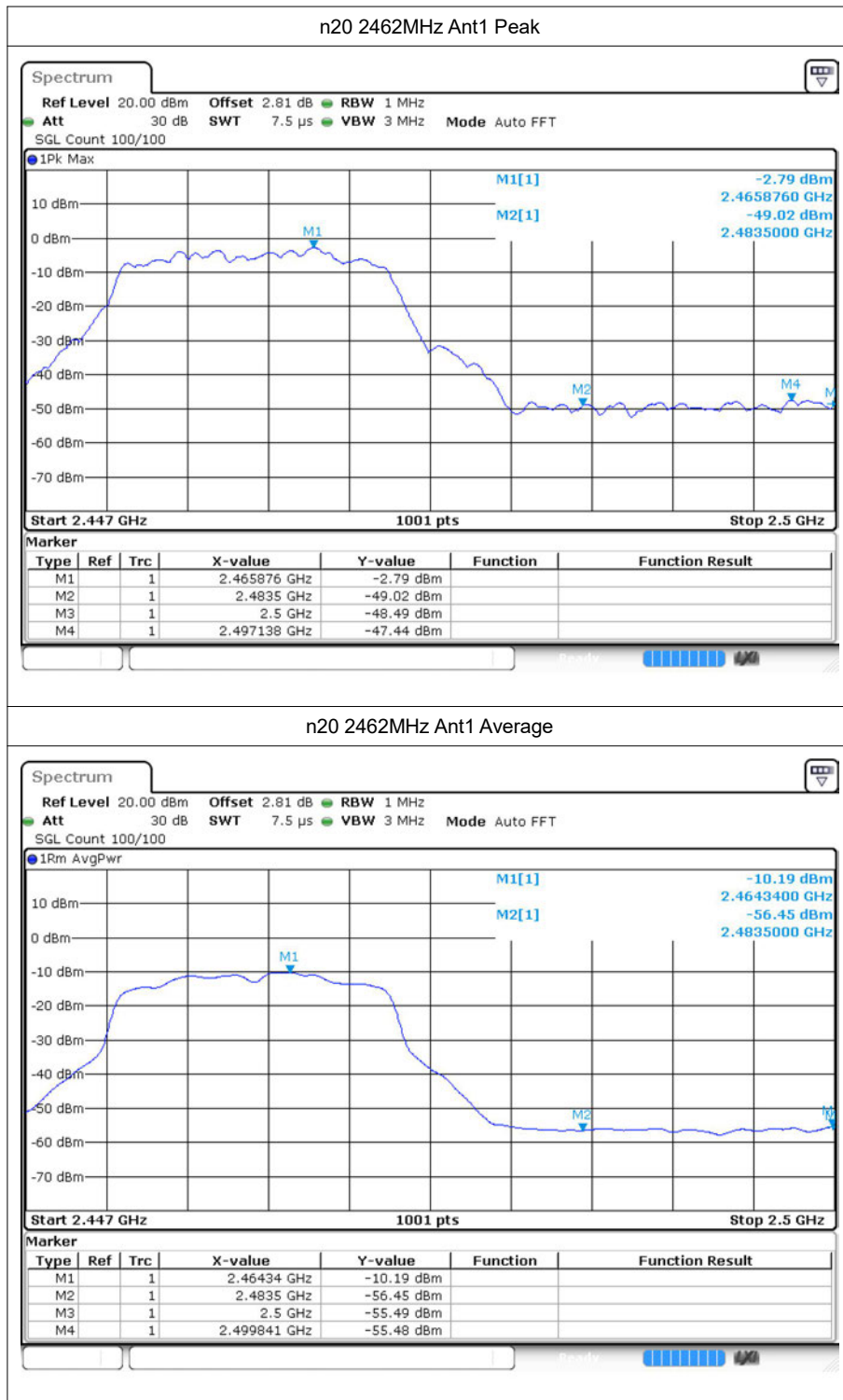












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