



Appendix C

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: Smart Wall Light

Trade Mark: ELICE

Test Model: JSK-P22

Environmental Conditions

Temperature:	24.6° C
Relative Humidity:	52.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Simba Huang
Supervised by:	Seal Chen



Contents

Page

COVER PAGE

1	Duty Cycle	3
1.1	Test Result.....	3
1.2	Test Graphs	4
2	Maximum Conducted Output Power	10
2.1	Test Result.....	10
3	-6dB Bandwidth	11
3.1	Test Result.....	11
3.2	Test Graphs	12
4	Maximum Power Spectral Density Level	18
4.1	Test Result.....	18
4.2	Test Graphs	19
5	Band Edge.....	25
5.1	Test Result.....	25
5.2	Test Graphs	26
6	Conducted RF Spurious Emission.....	34
6.1	Test Result.....	34
6.2	Test Graphs	35
7	Restrict Band.....	47
7.1	Test Result.....	47
7.2	Test Graphs	49

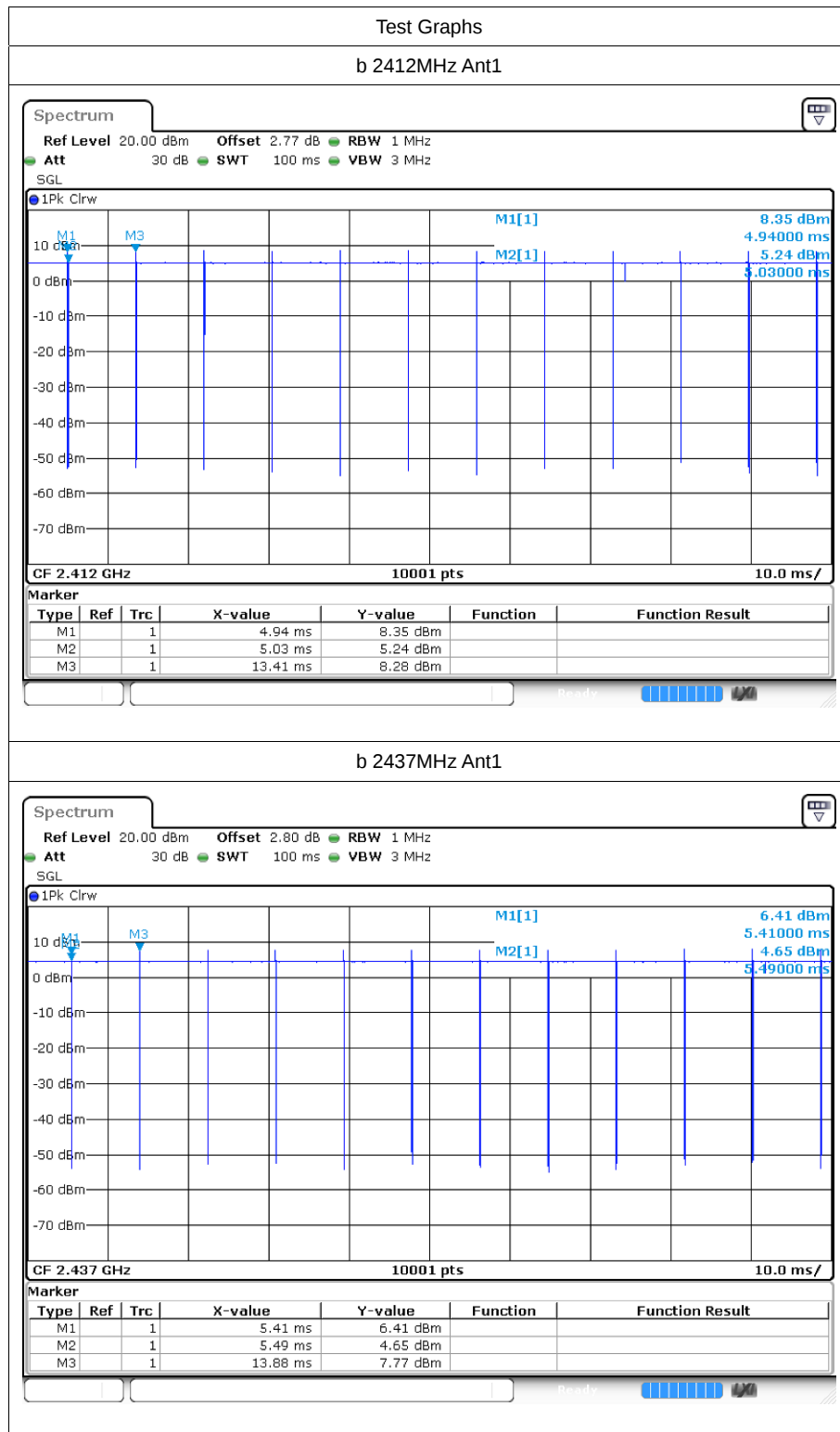


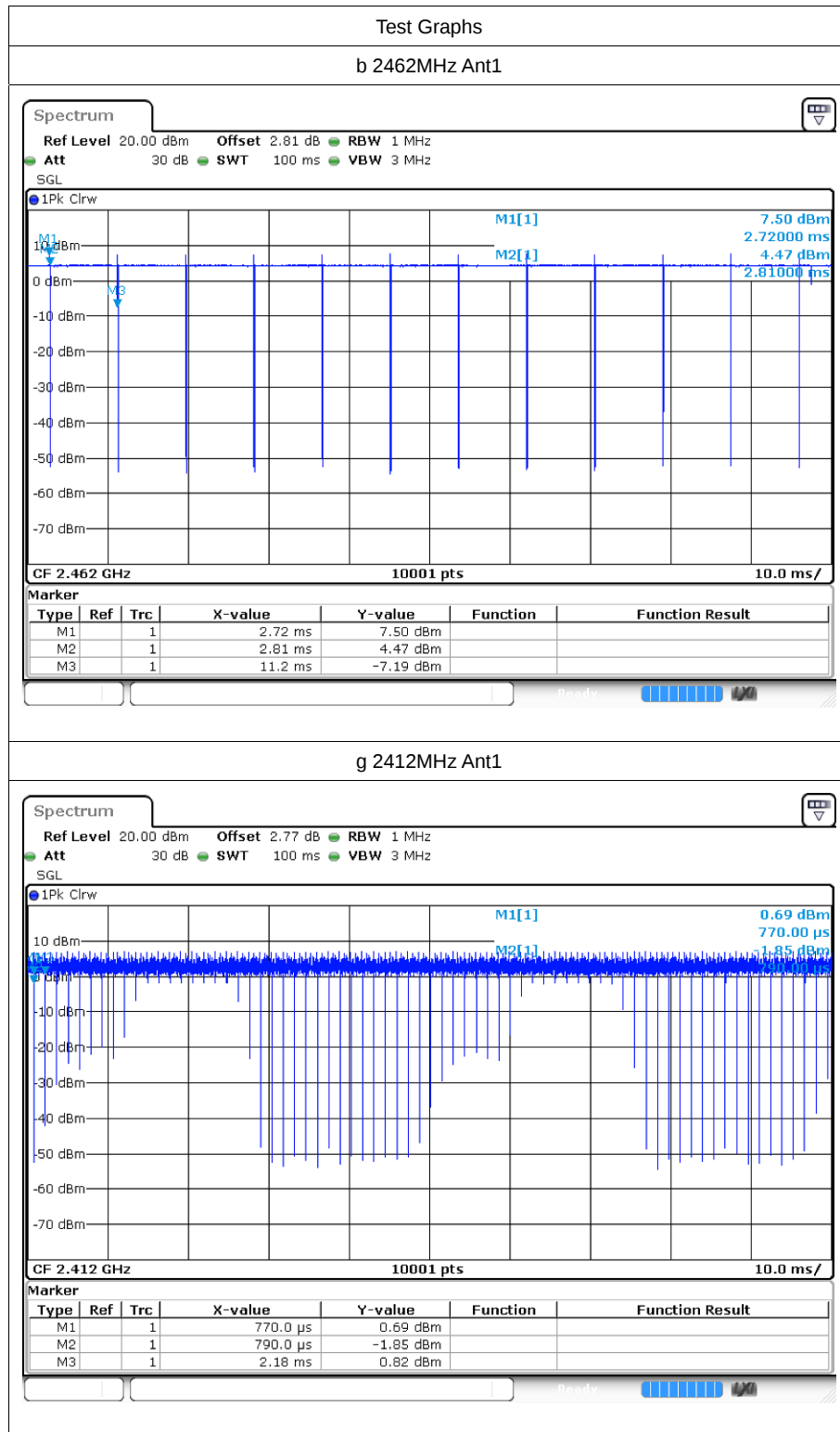
1 Duty Cycle

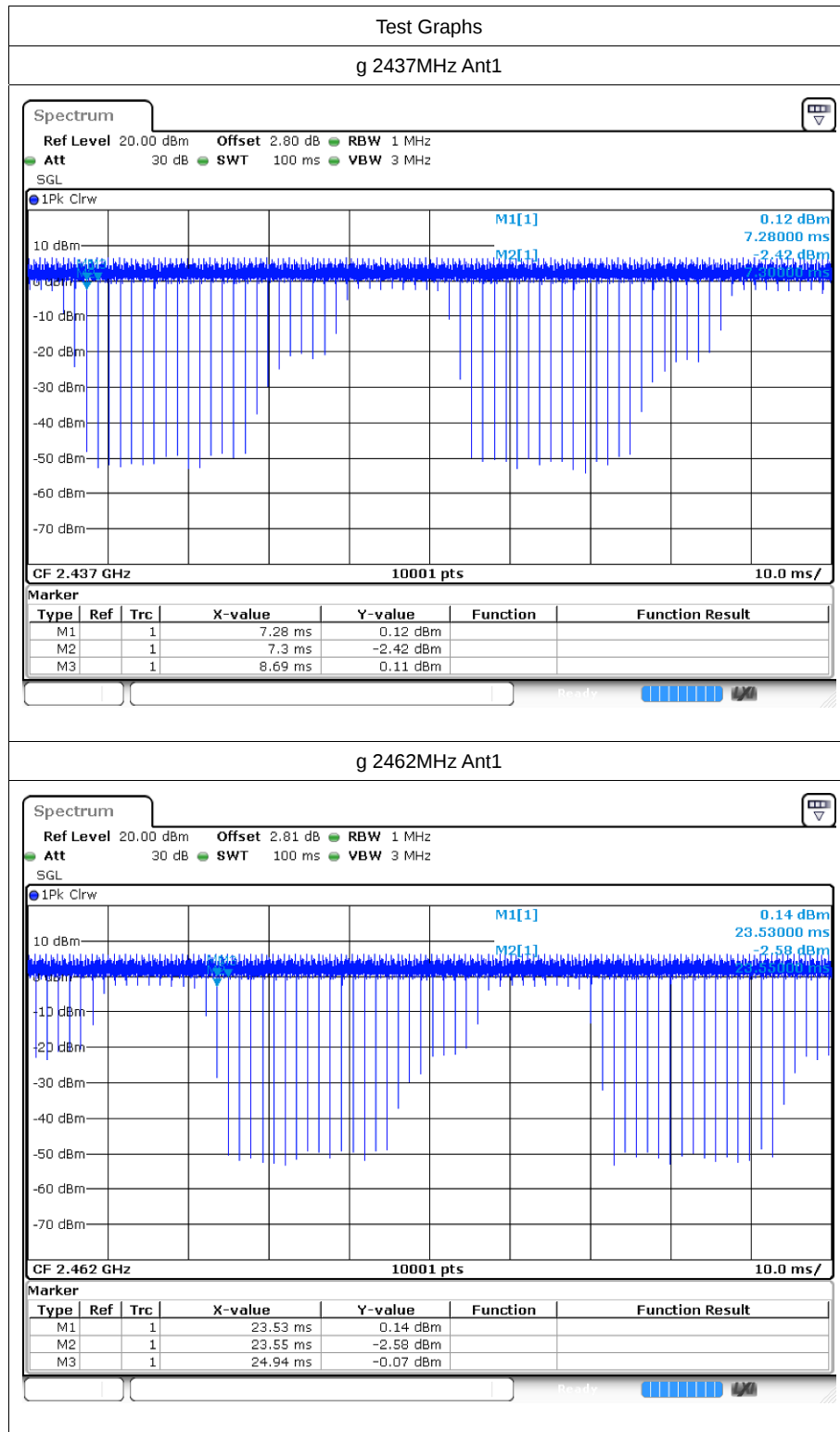
1.1 Test Result

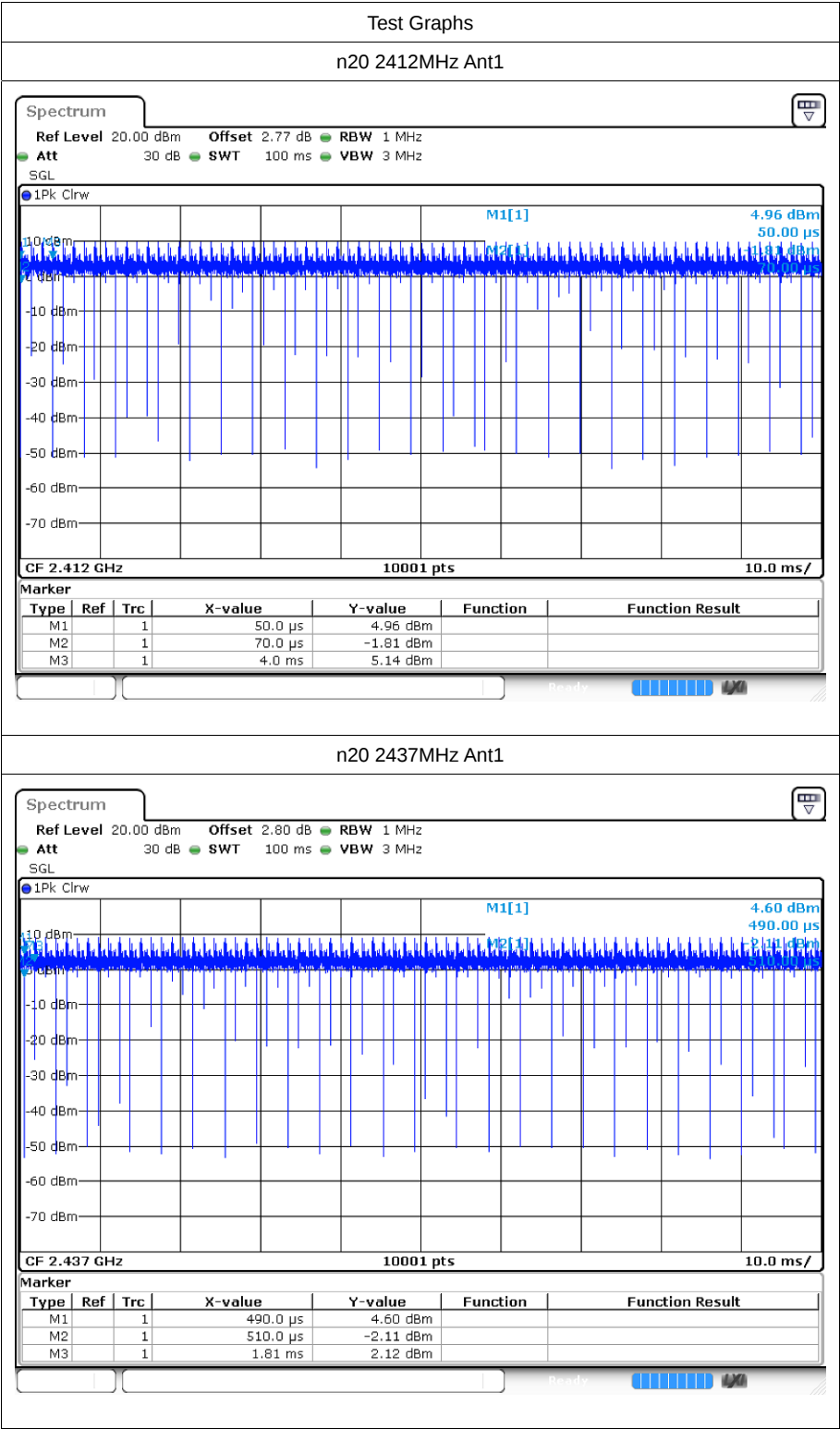
Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	1/T (kHz)
b	2412	Ant1	99.09	0.01
b	2437	Ant1	99.1	0.01
b	2462	Ant1	99.09	0.01
g	2412	Ant1	99.61	0.01
g	2437	Ant1	99.64	0.01
g	2462	Ant1	99.63	0.01
n20	2412	Ant1	99.67	0.01
n20	2437	Ant1	99.64	0.01
n20	2462	Ant1	99.66	0.01
n40	2422	Ant1	100	0.01
n40	2437	Ant1	100	0.01
n40	2452	Ant1	100	0.01

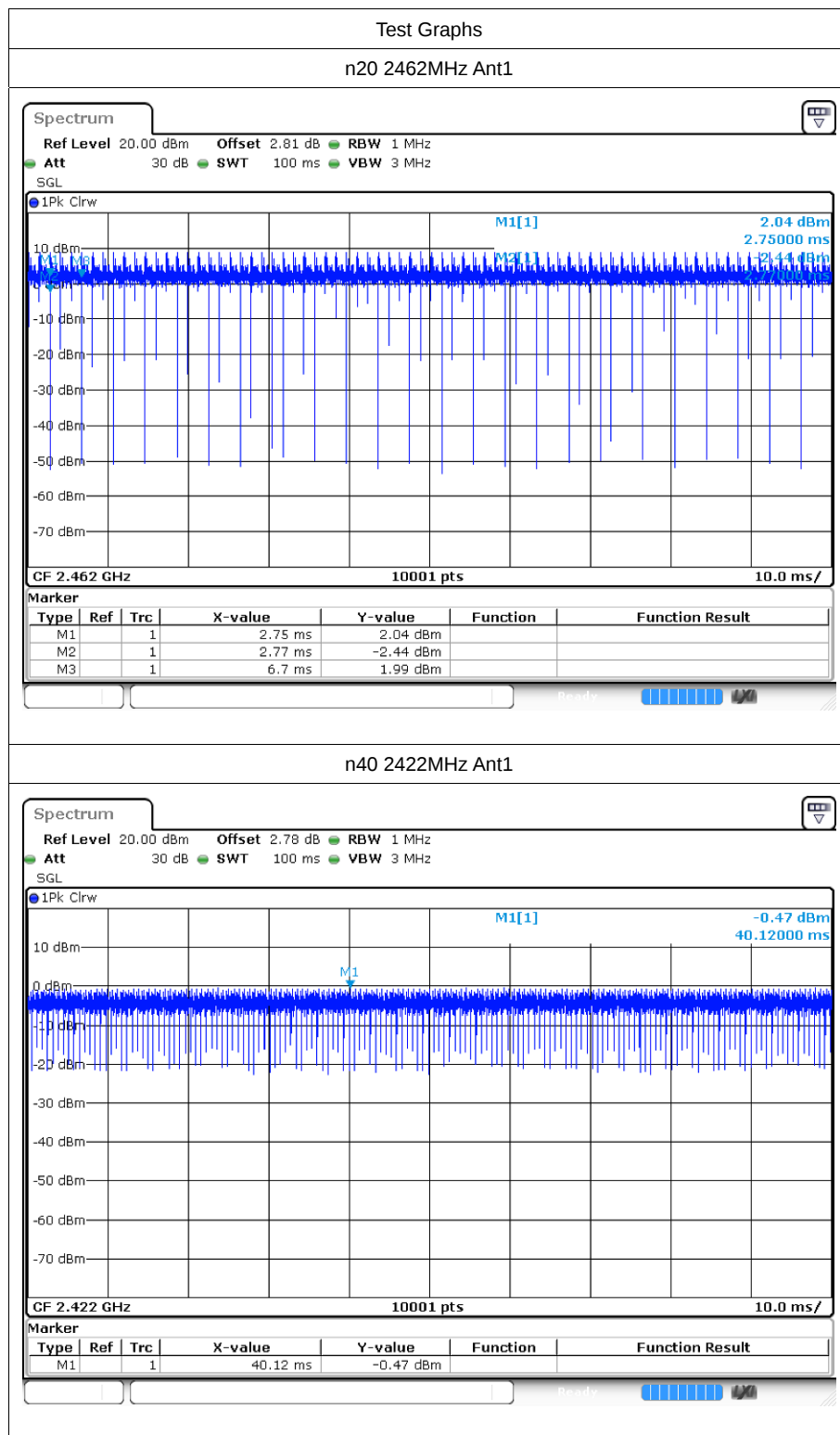
1.2 Test Graphs

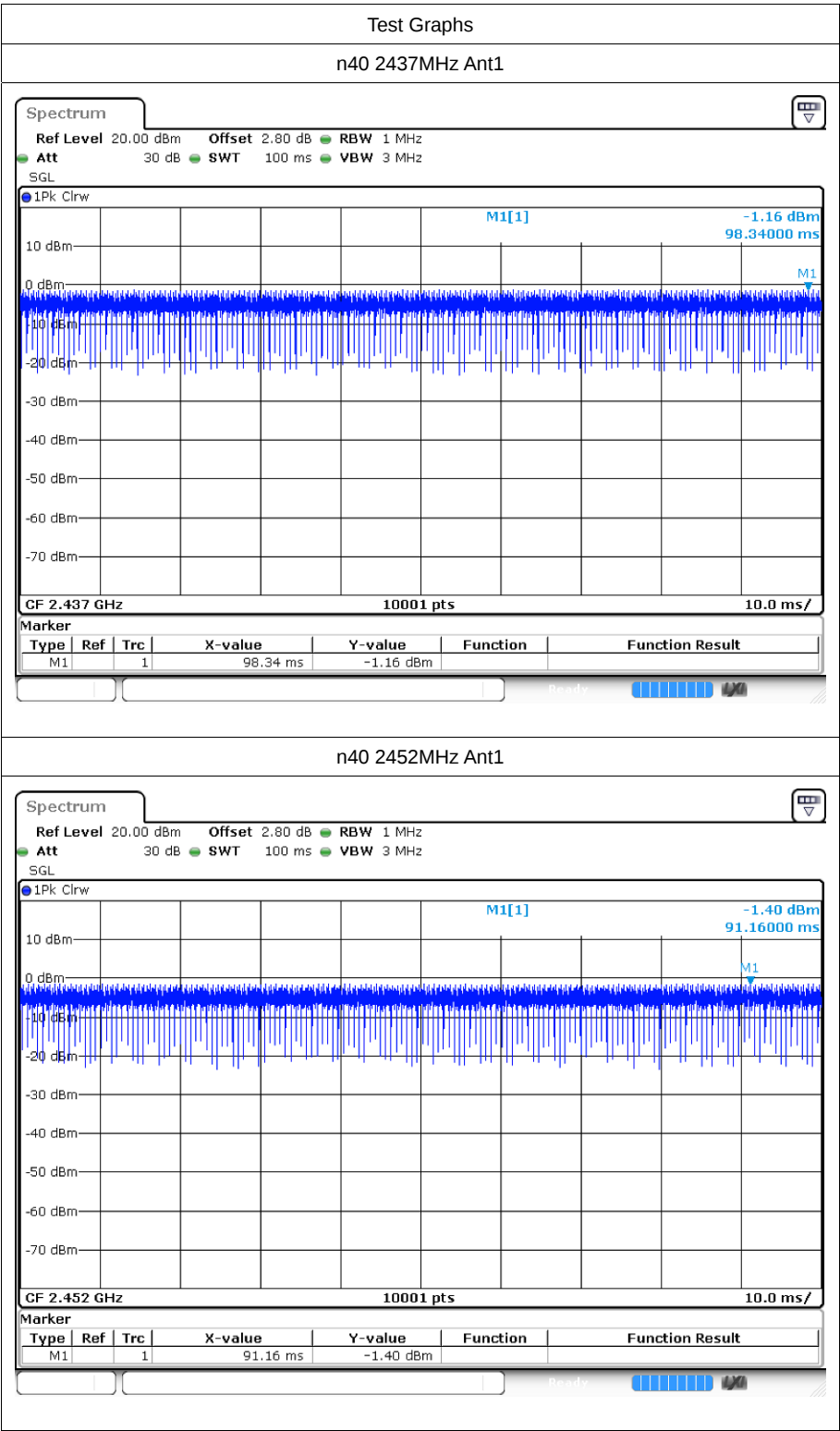












2 Maximum Conducted Output Power

2.1 Test Result

Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
b	2412	Ant1	16.05	30	Pass
b	2437	Ant1	15.5	30	Pass
b	2462	Ant1	15.26	30	Pass
g	2412	Ant1	15.54	30	Pass
g	2437	Ant1	15.13	30	Pass
g	2462	Ant1	14.97	30	Pass
n20	2412	Ant1	15.55	30	Pass
n20	2437	Ant1	15.24	30	Pass
n20	2462	Ant1	15.03	30	Pass
n40	2422	Ant1	15.61	30	Pass
n40	2437	Ant1	15.1	30	Pass
n40	2452	Ant1	14.75	30	Pass

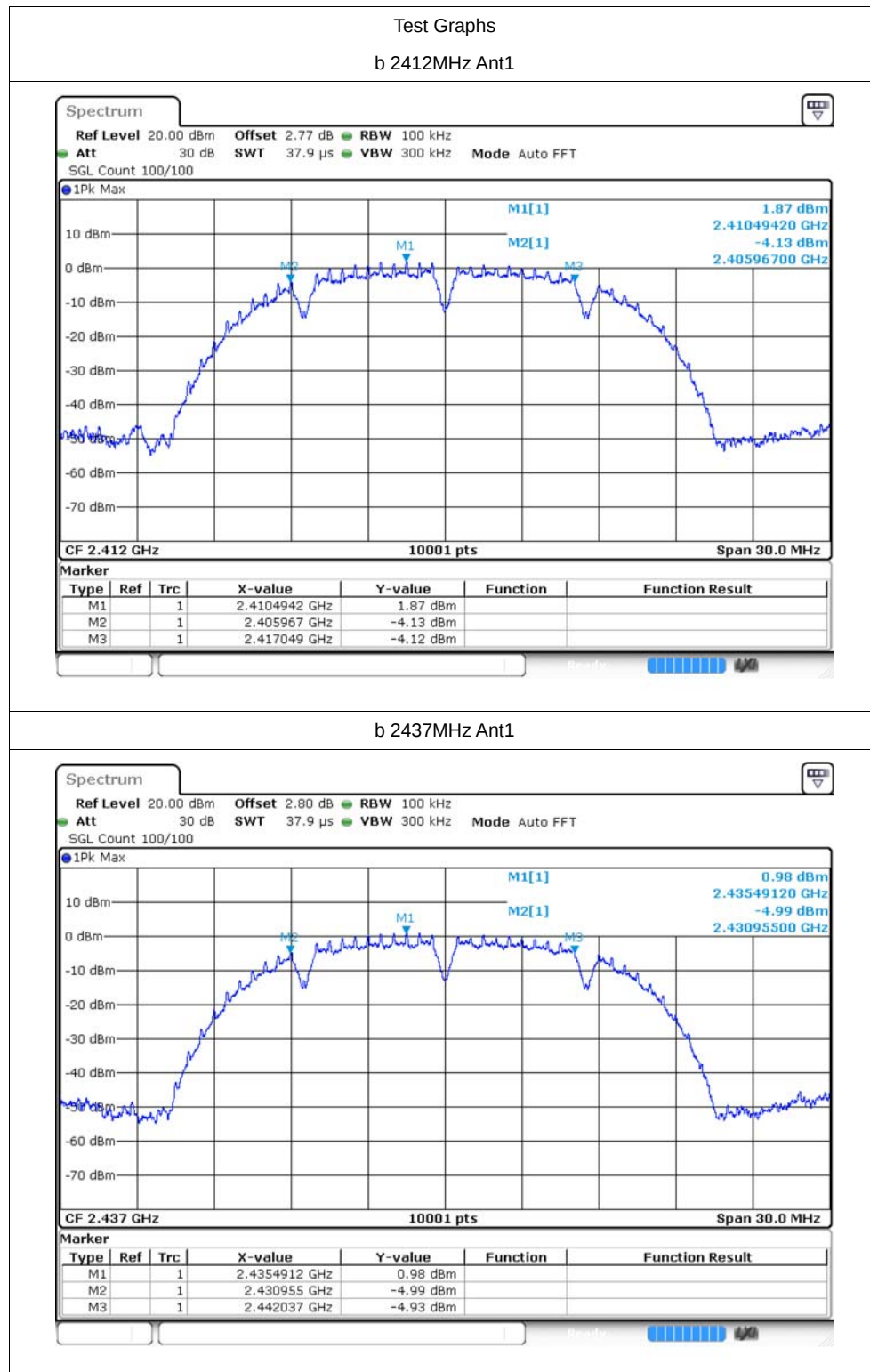


3 -6dB Bandwidth

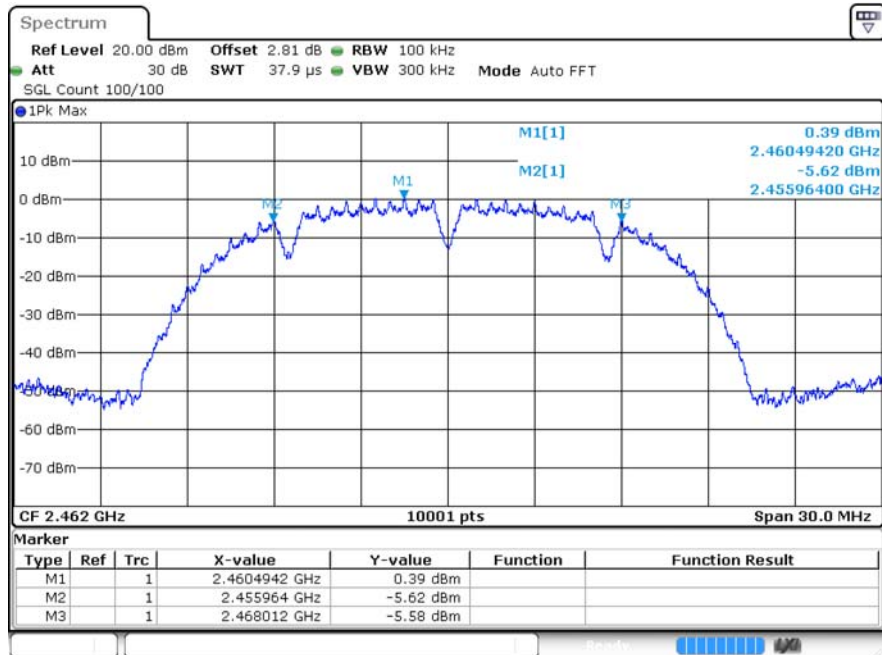
3.1 Test Result

Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
b	2412	Ant1	11.082	0.5	Pass
b	2437	Ant1	11.082	0.5	Pass
b	2462	Ant1	12.048	0.5	Pass
g	2412	Ant1	16.299	0.5	Pass
g	2437	Ant1	13.866	0.5	Pass
g	2462	Ant1	16.794	0.5	Pass
n20	2412	Ant1	16.632	0.5	Pass
n20	2437	Ant1	16.086	0.5	Pass
n20	2462	Ant1	15.447	0.5	Pass
n40	2422	Ant1	33.834	0.5	Pass
n40	2437	Ant1	35.016	0.5	Pass
n40	2452	Ant1	33.828	0.5	Pass

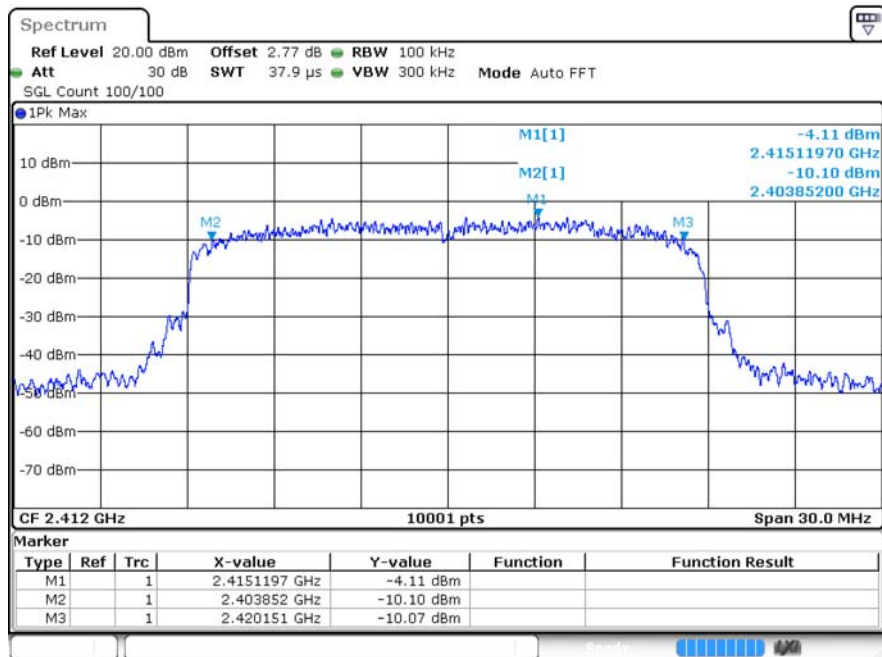
3.2 Test Graphs



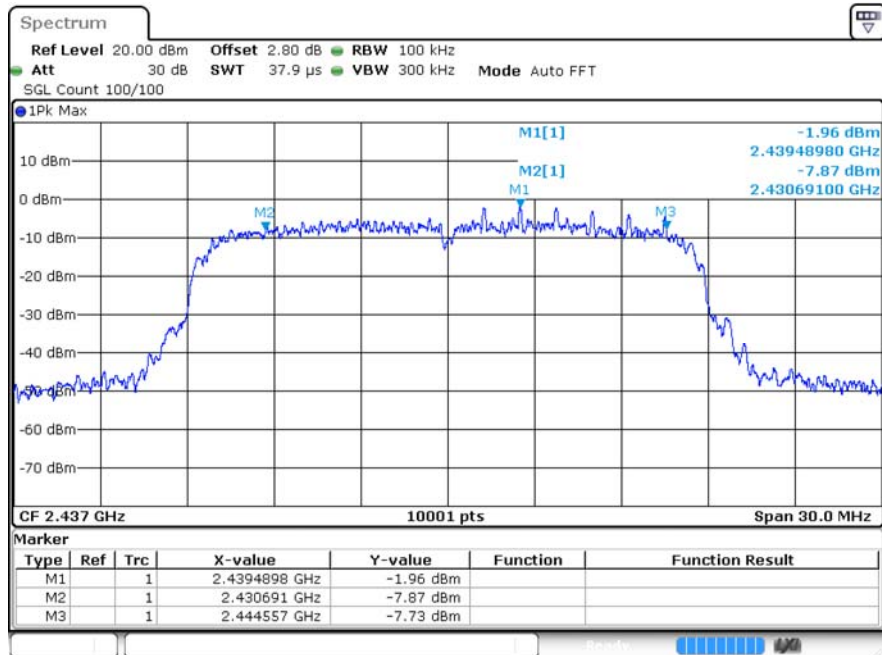
b 2462MHz Ant1



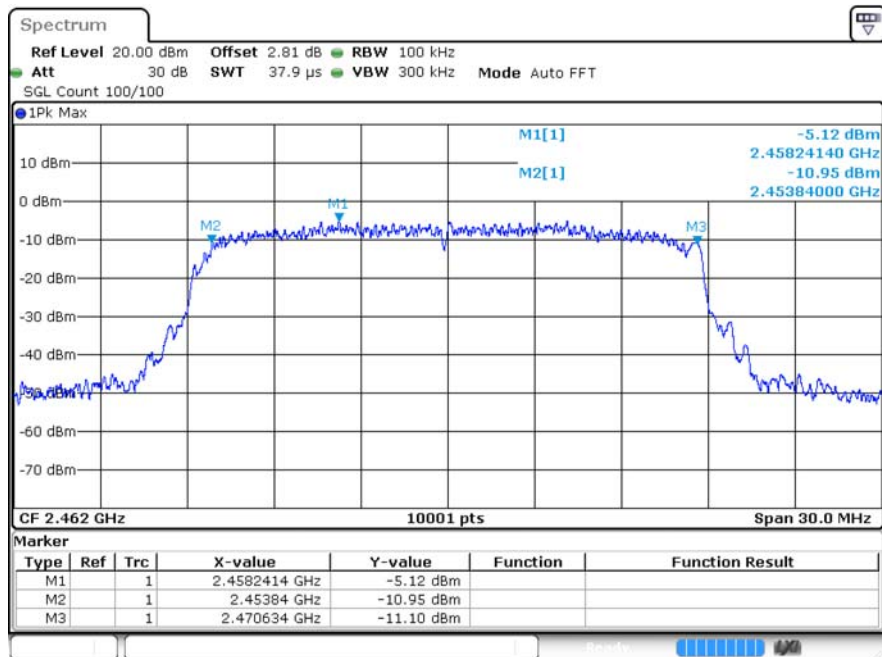
g 2412MHz Ant1

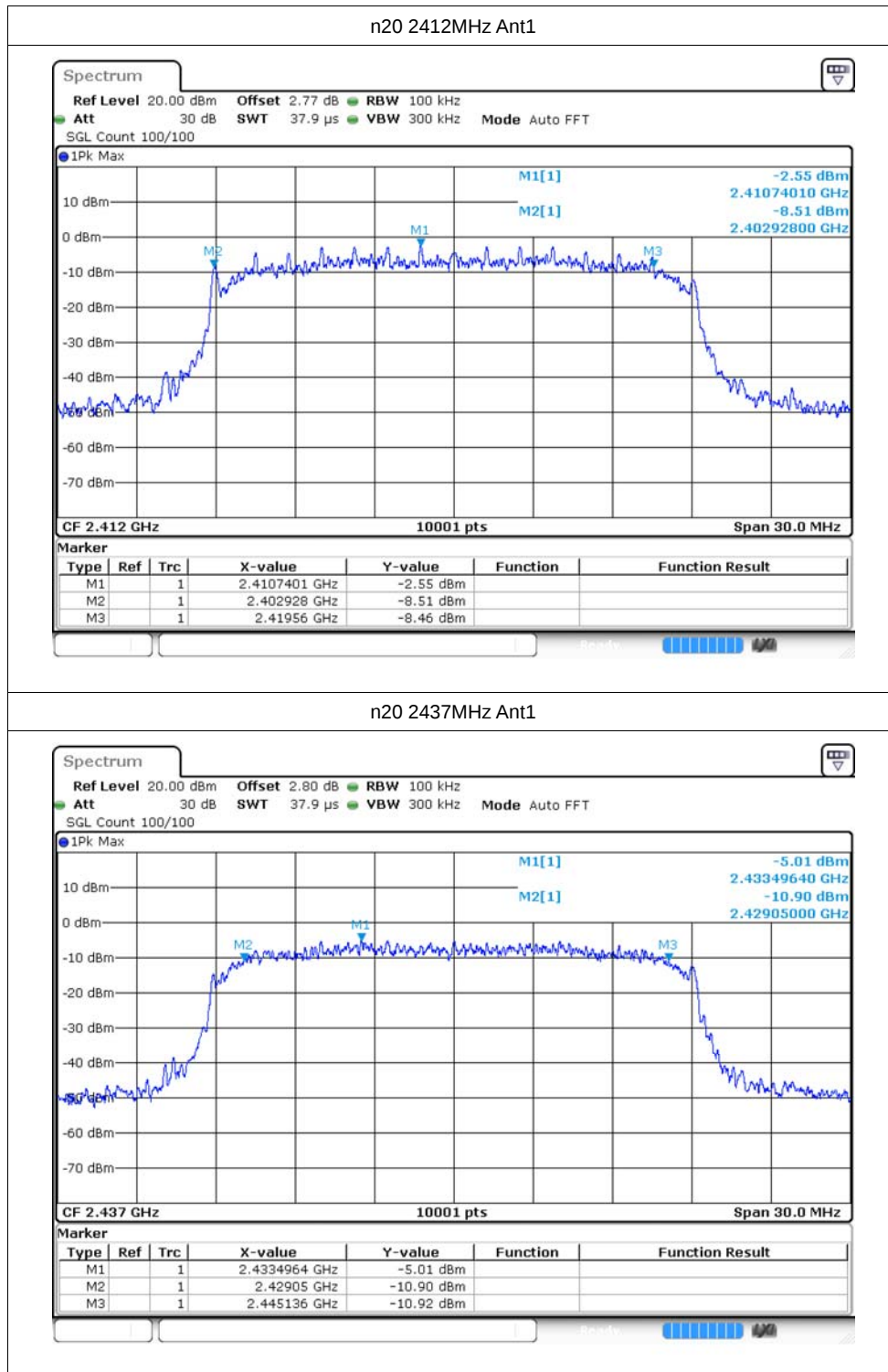


g 2437MHz Ant1

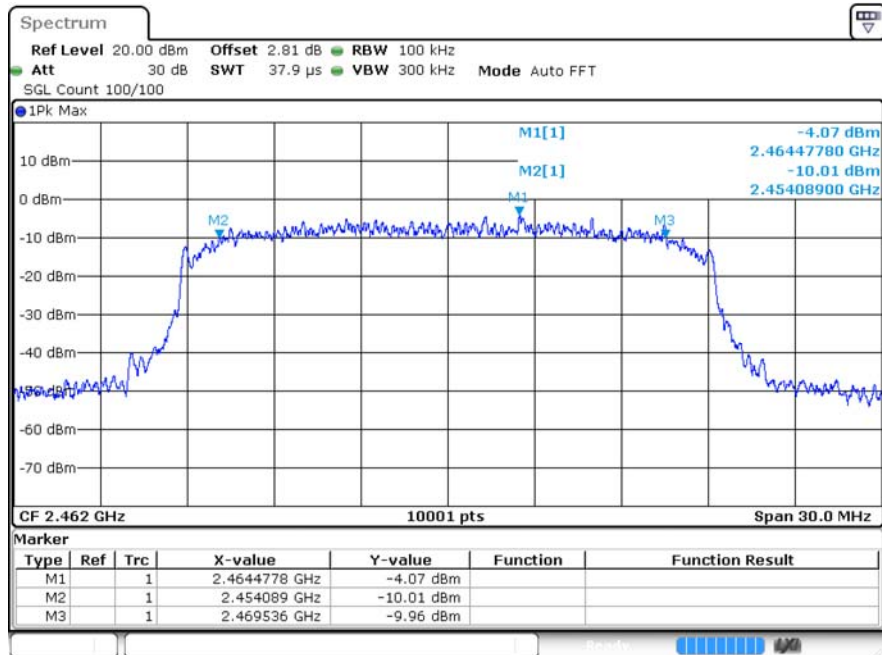


g 2462MHz Ant1

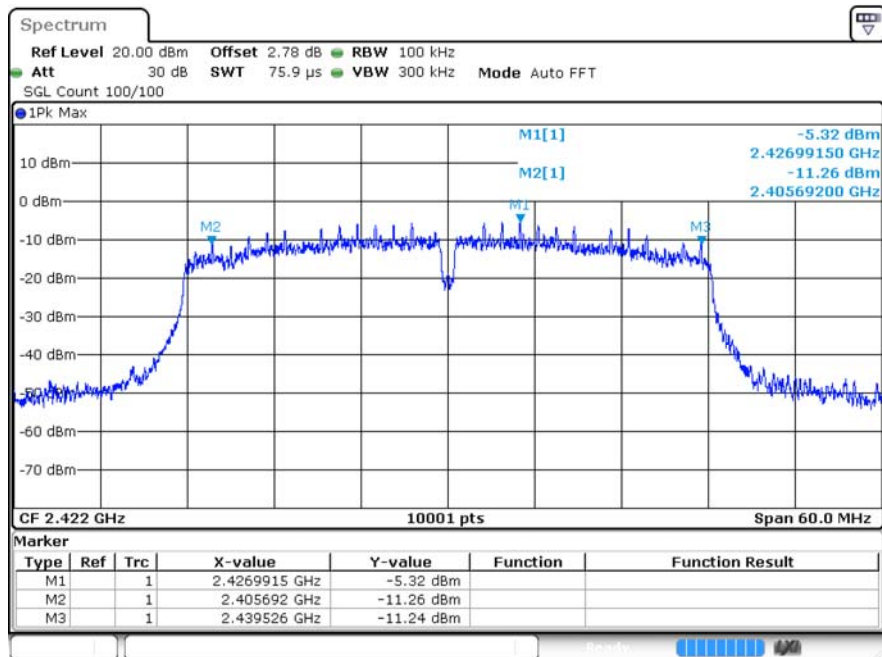


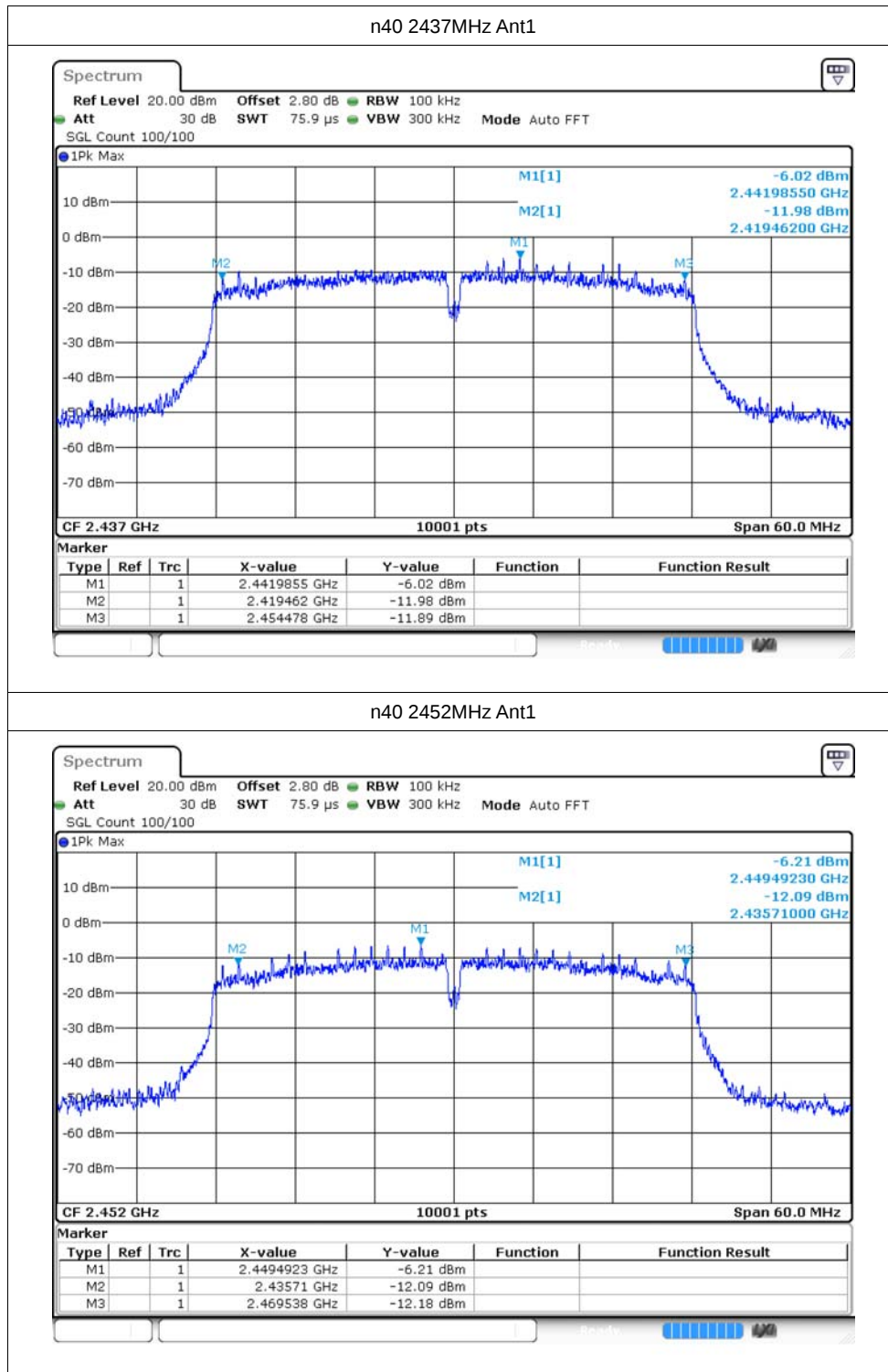


n20 2462MHz Ant1



n40 2422MHz Ant1



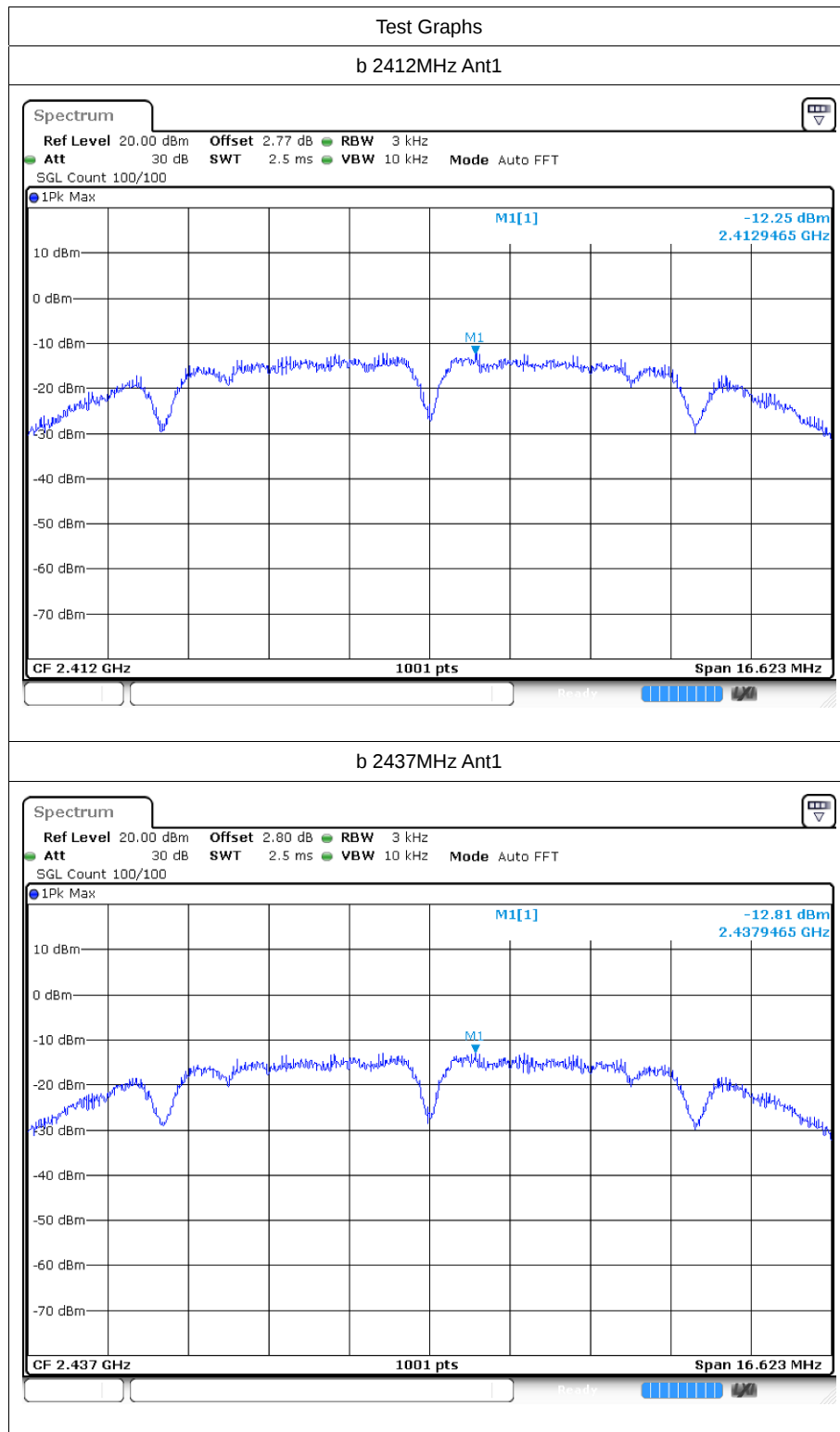


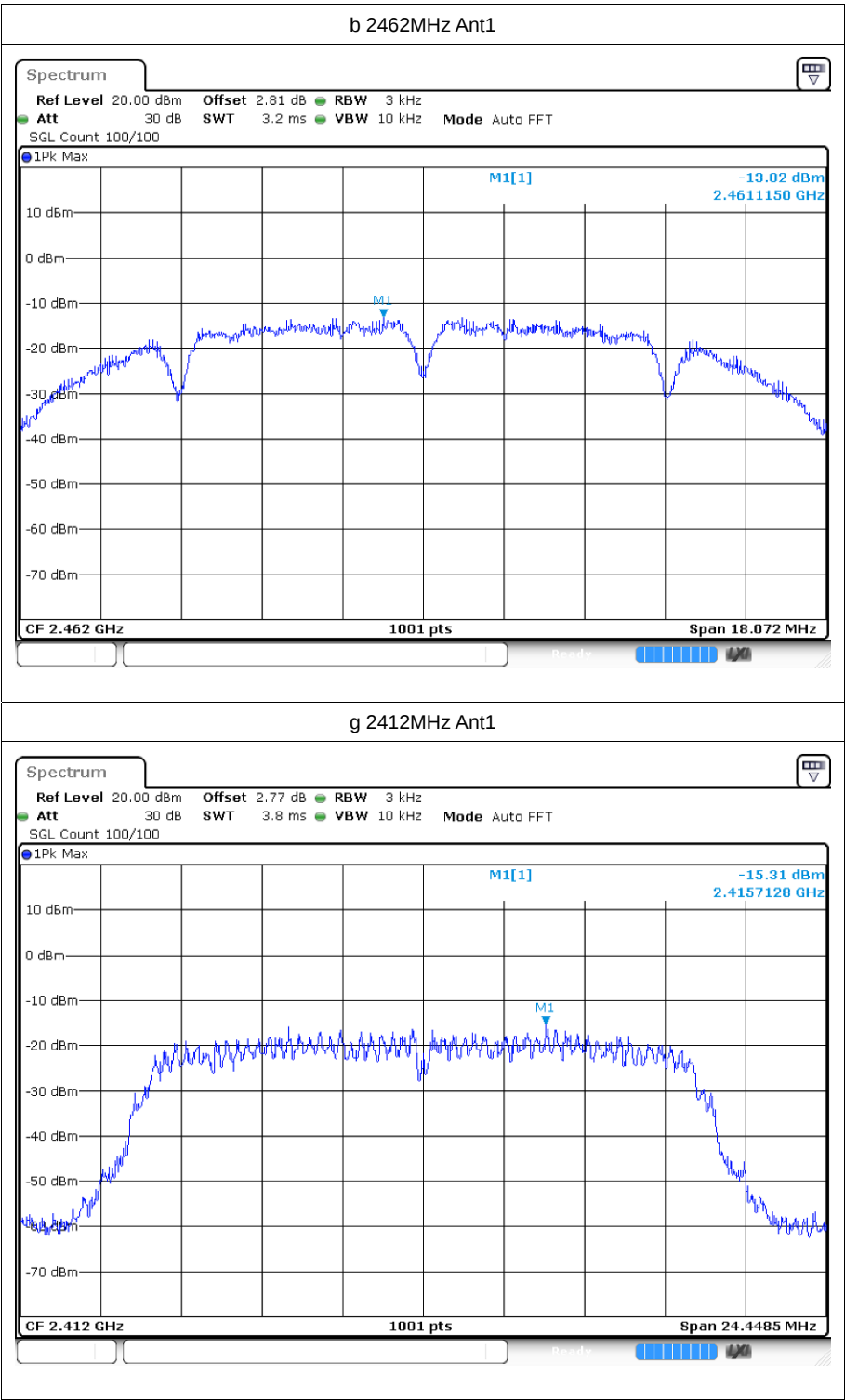
4 Maximum Power Spectral Density Level

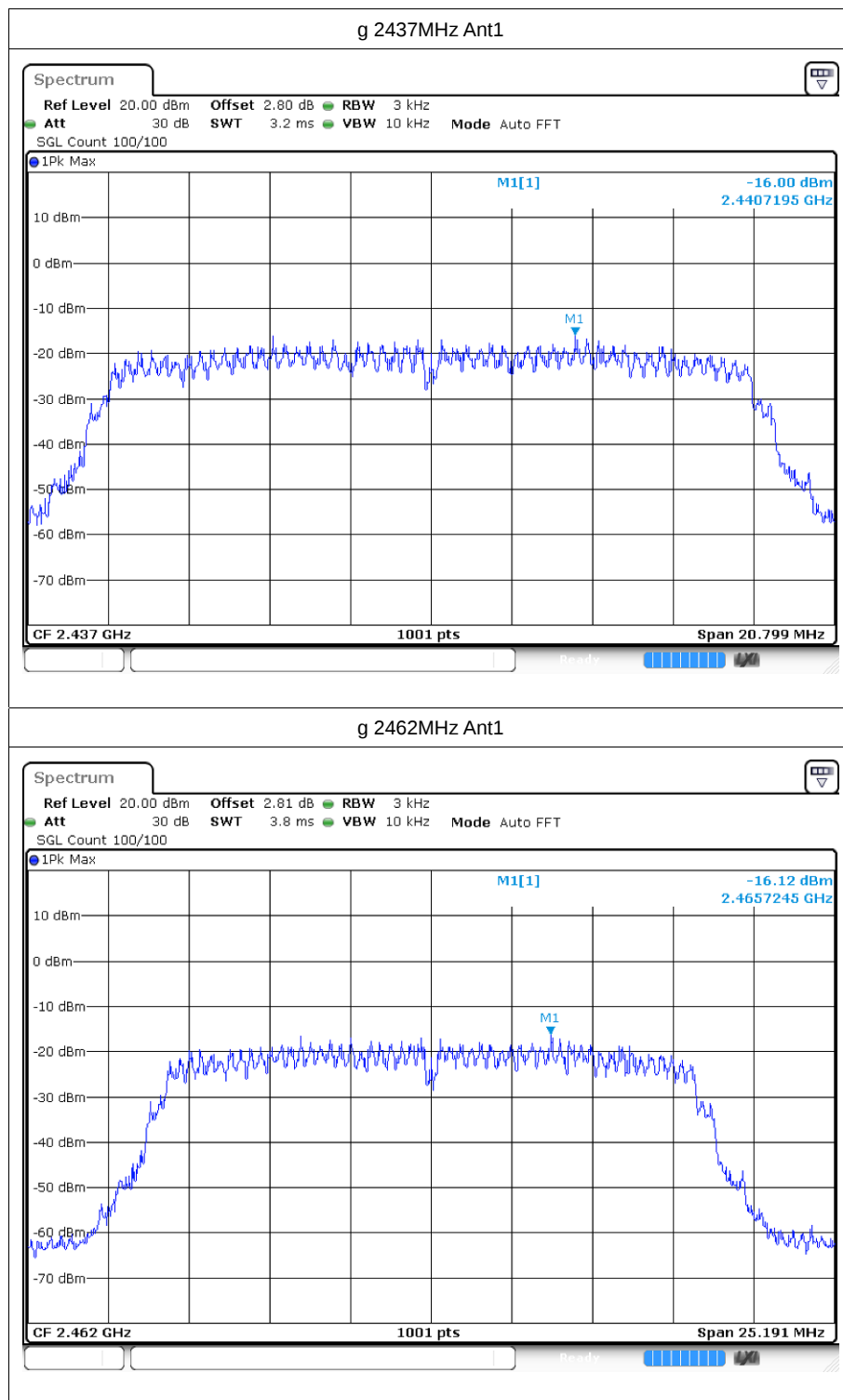
4.1 Test Result

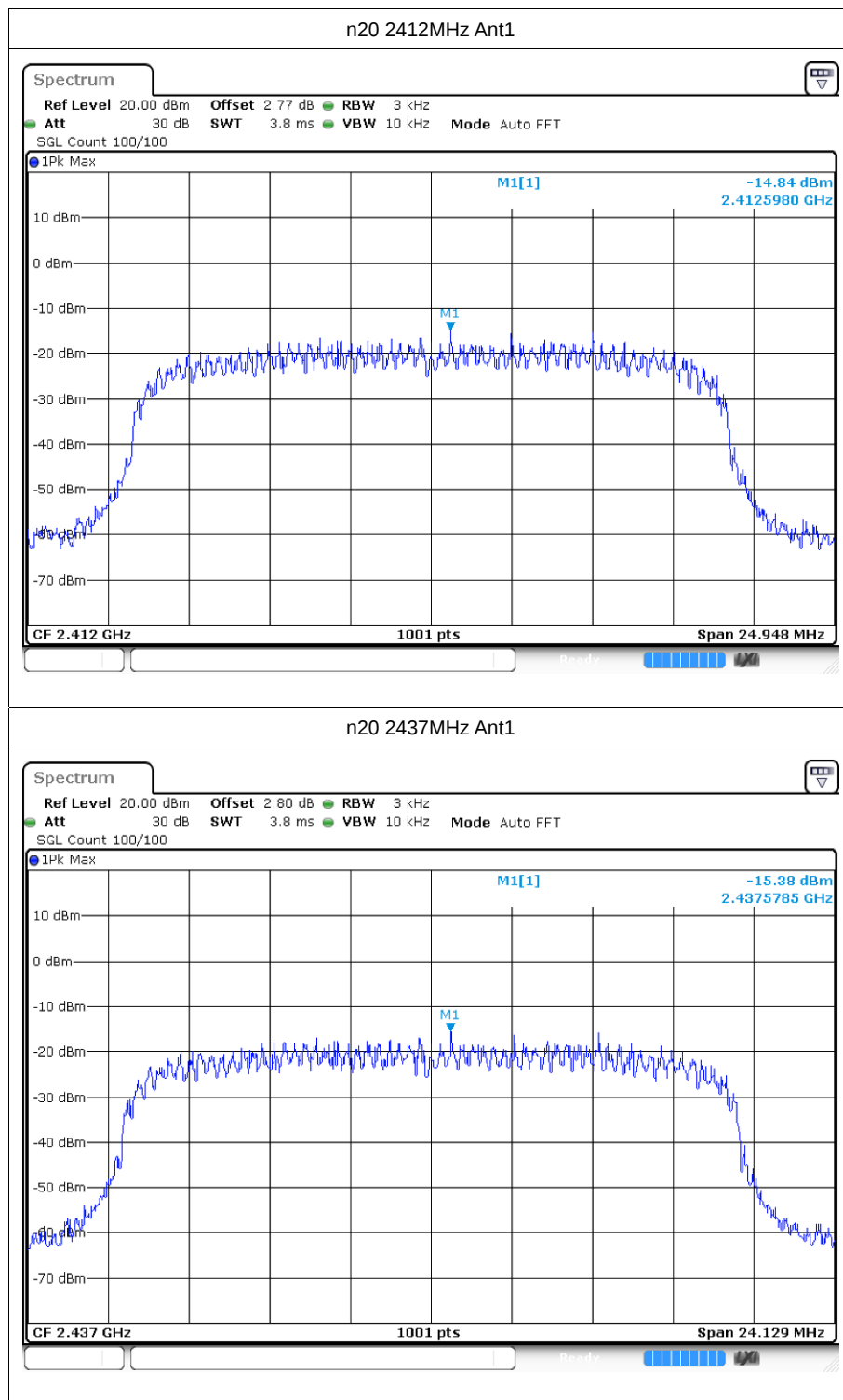
Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3-100kHz)	Limit (dBm/3kHz)	Verdict
b	2412	Ant1	-12.25	≤ 8	Pass
b	2437	Ant1	-12.81	≤ 8	Pass
b	2462	Ant1	-13.02	≤ 8	Pass
g	2412	Ant1	-15.31	≤ 8	Pass
g	2437	Ant1	-16	≤ 8	Pass
g	2462	Ant1	-16.12	≤ 8	Pass
n20	2412	Ant1	-14.84	≤ 8	Pass
n20	2437	Ant1	-15.38	≤ 8	Pass
n20	2462	Ant1	-15.51	≤ 8	Pass
n40	2422	Ant1	-19.45	≤ 8	Pass
n40	2437	Ant1	-20.22	≤ 8	Pass
n40	2452	Ant1	-20.4	≤ 8	Pass

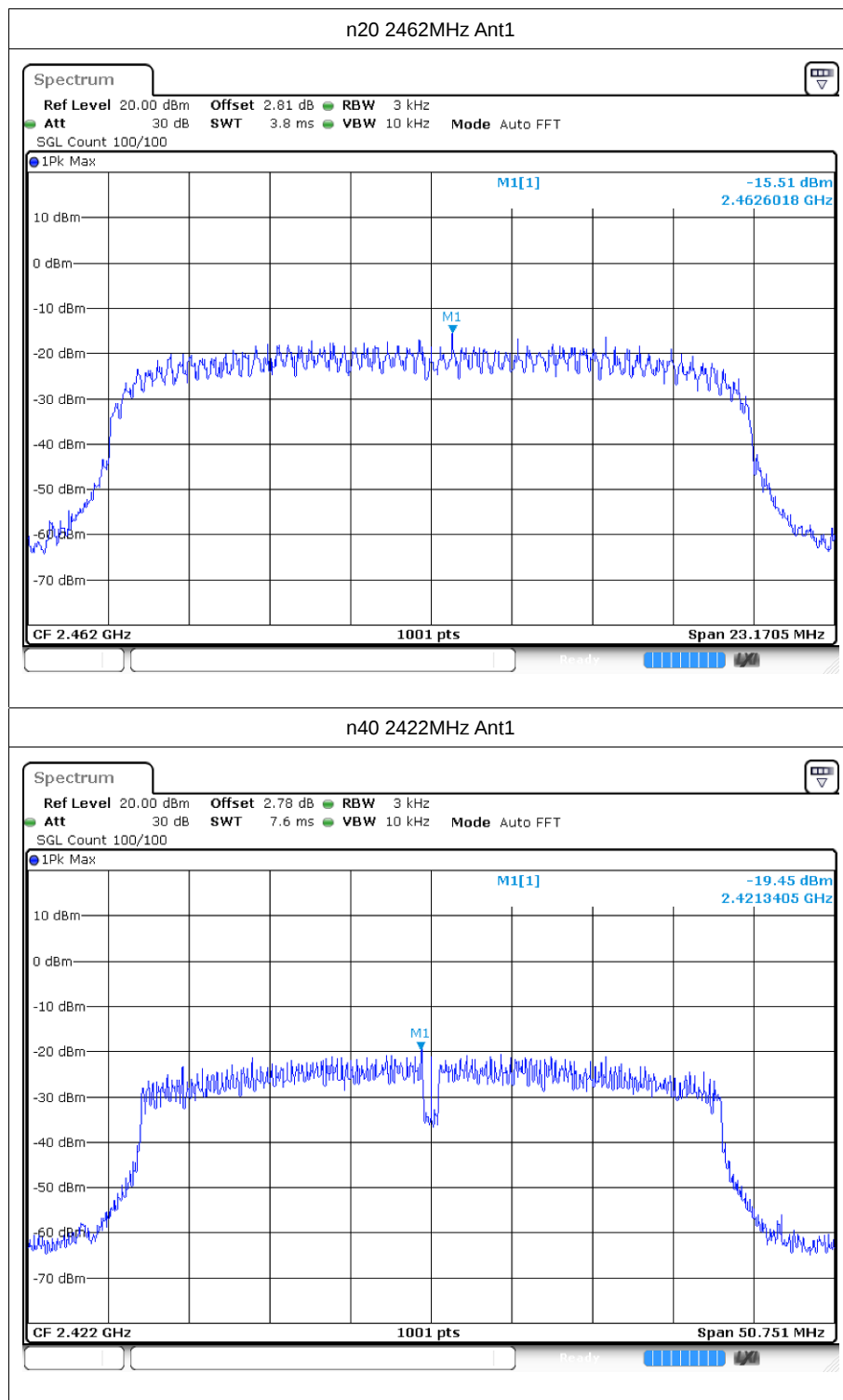
4.2 Test Graphs

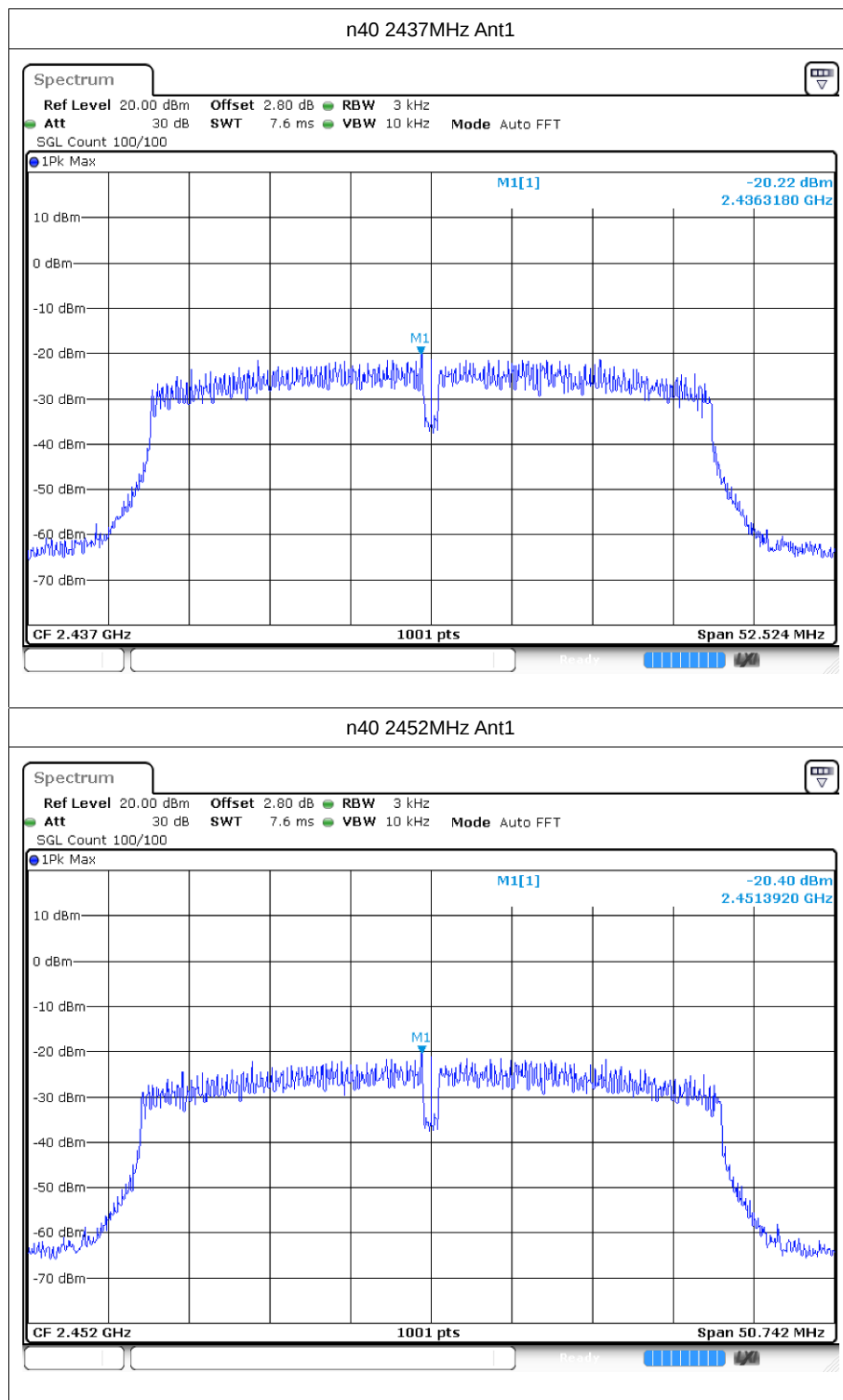












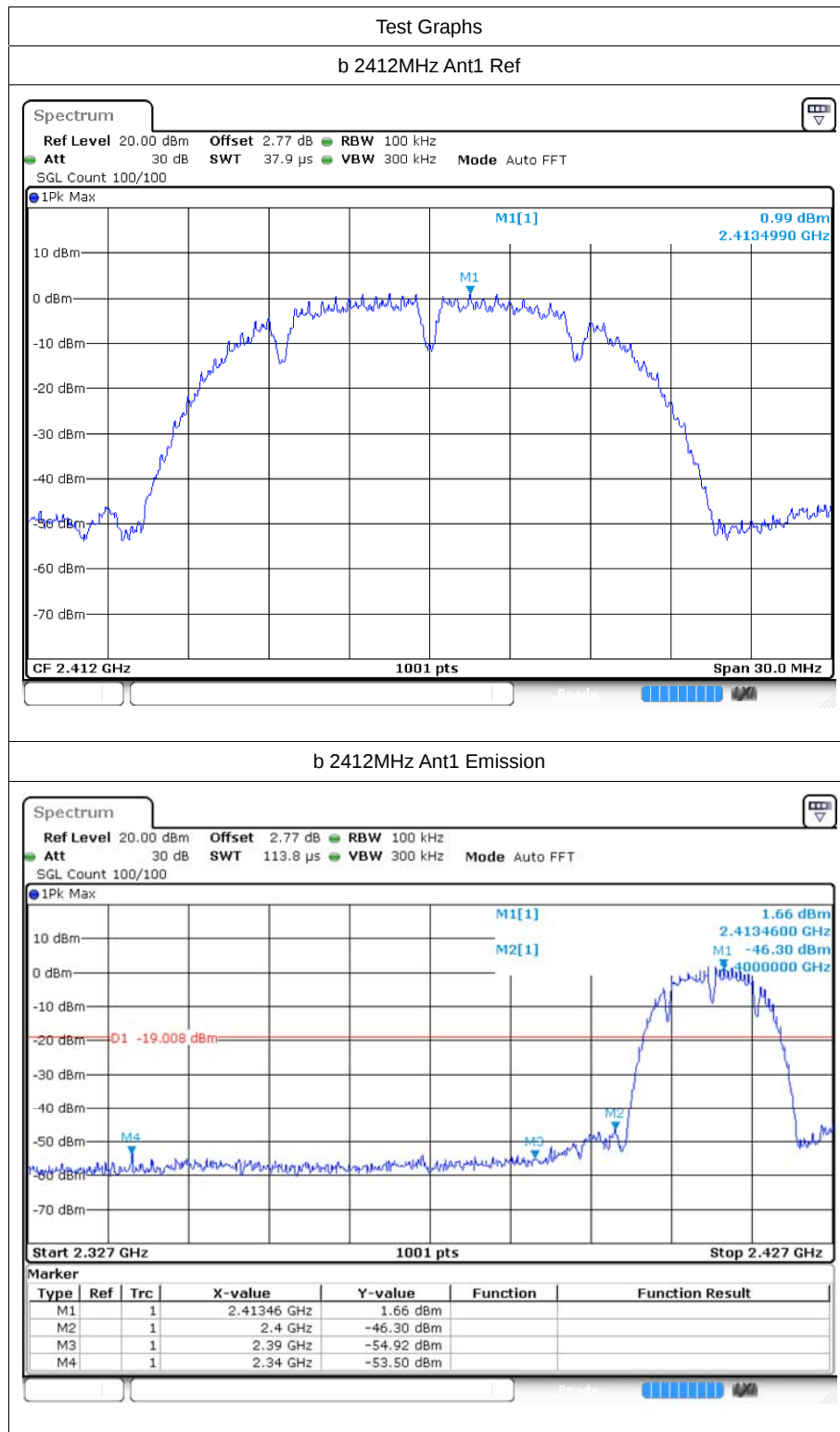


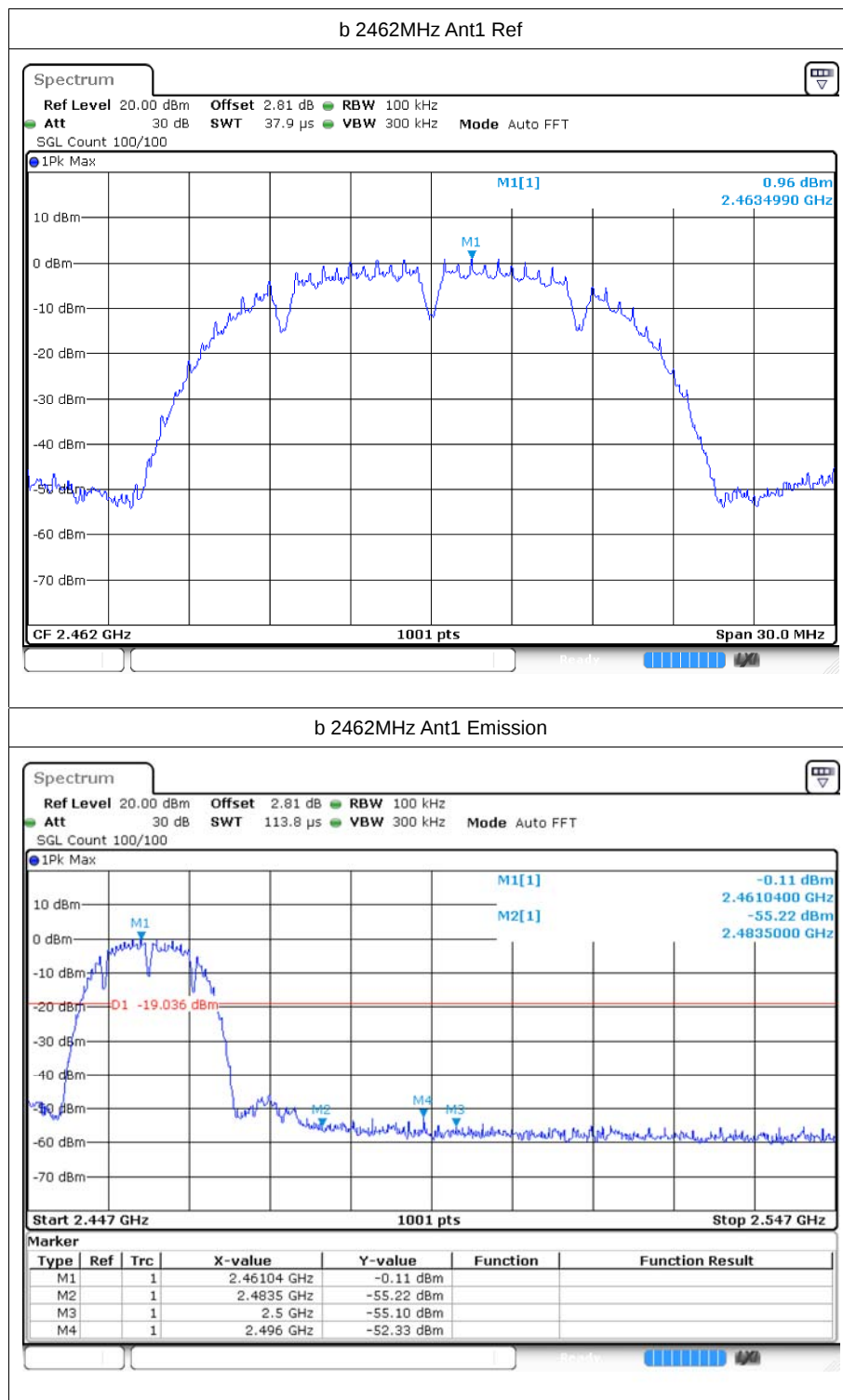
5 Band Edge

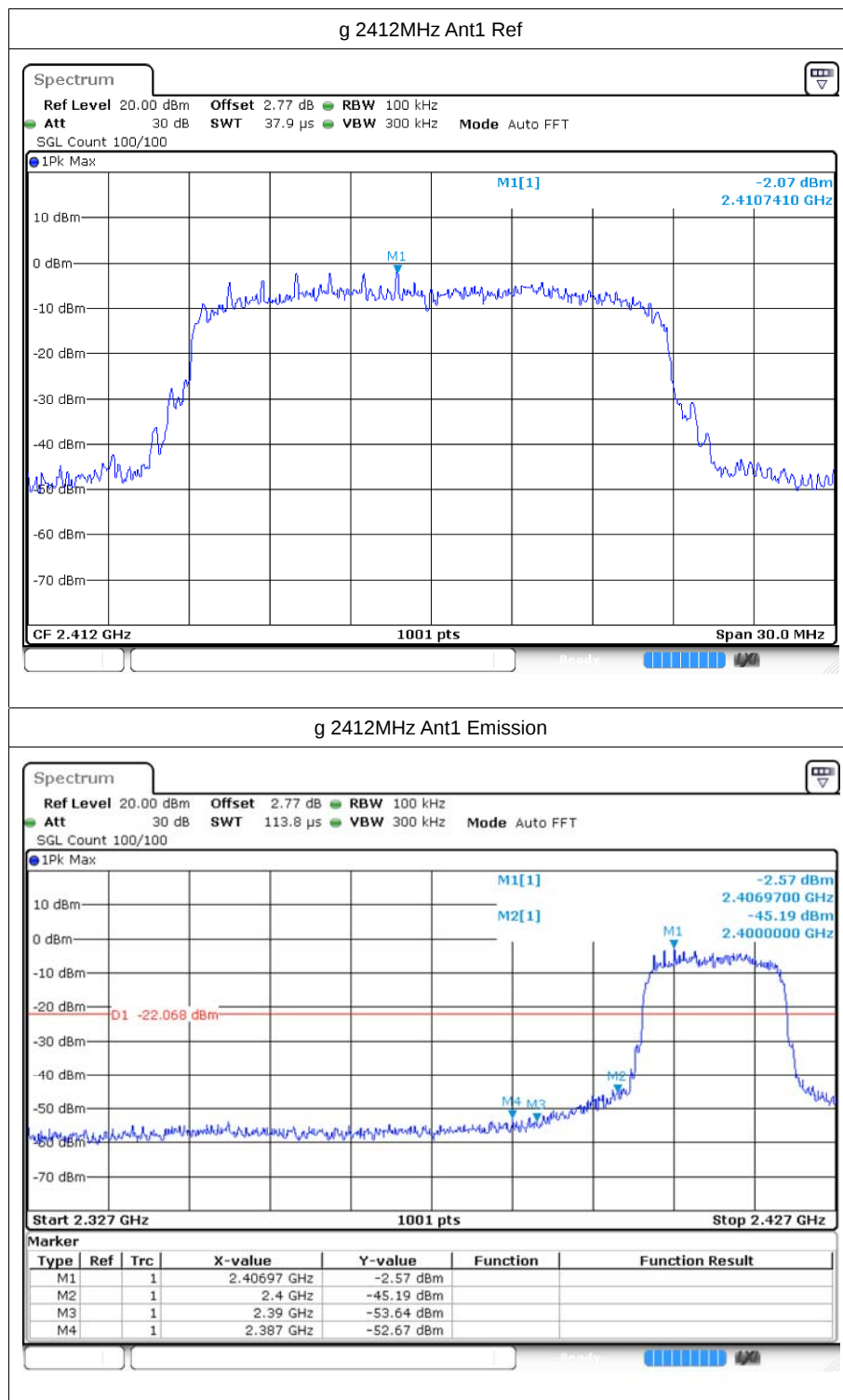
5.1 Test Result

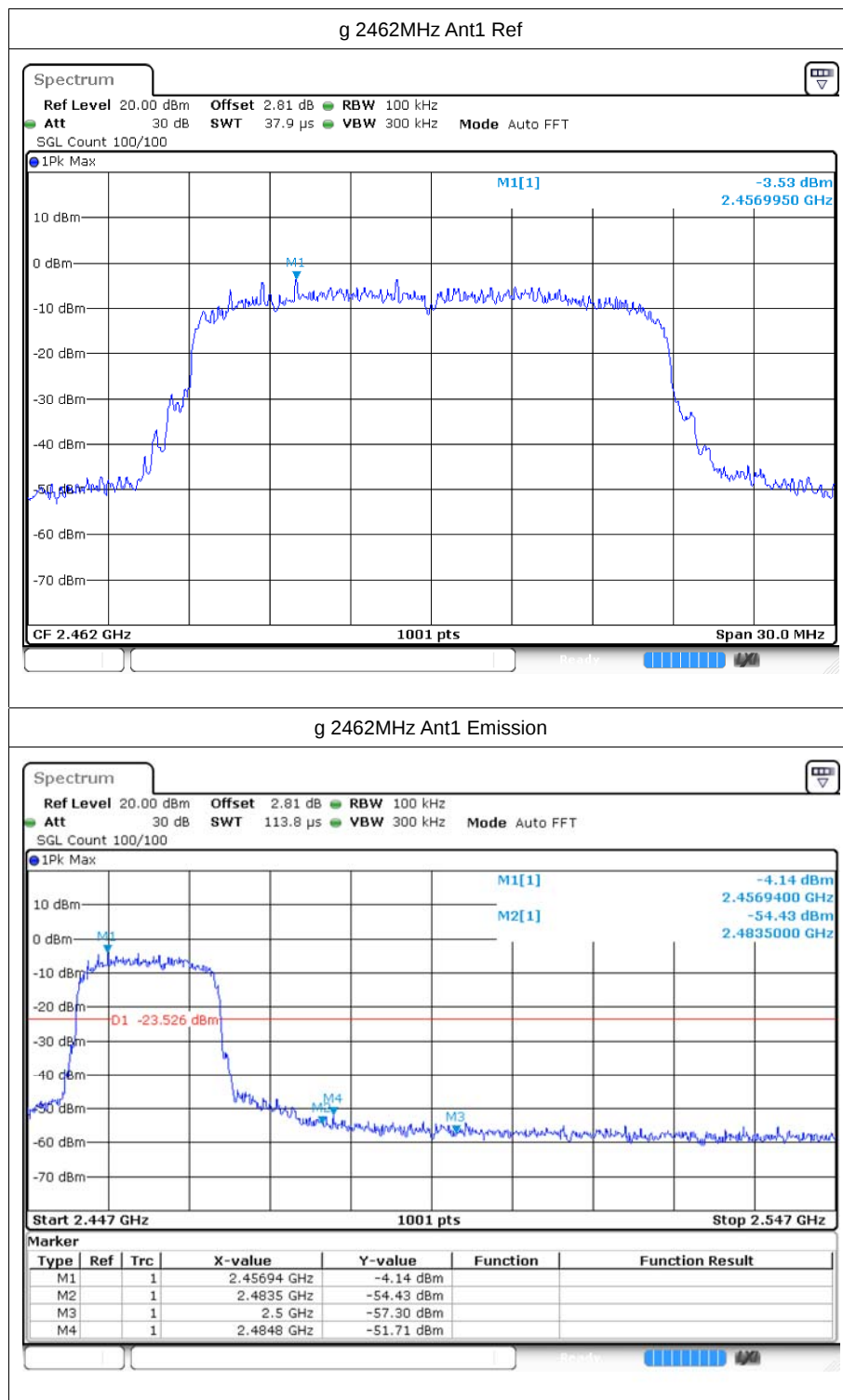
Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
b	2412	Ant1	-54.49	-20	-54.49
b	2462	Ant1	-53.28	-20	Pass
g	2412	Ant1	-50.59	-20	Pass
g	2462	Ant1	-48.17	-20	Pass
n20	2412	Ant1	-49.27	-20	Pass
n20	2462	Ant1	-50.24	-20	Pass
n40	2422	Ant1	-42.86	-20	Pass
n40	2452	Ant1	-41.99	-20	Pass

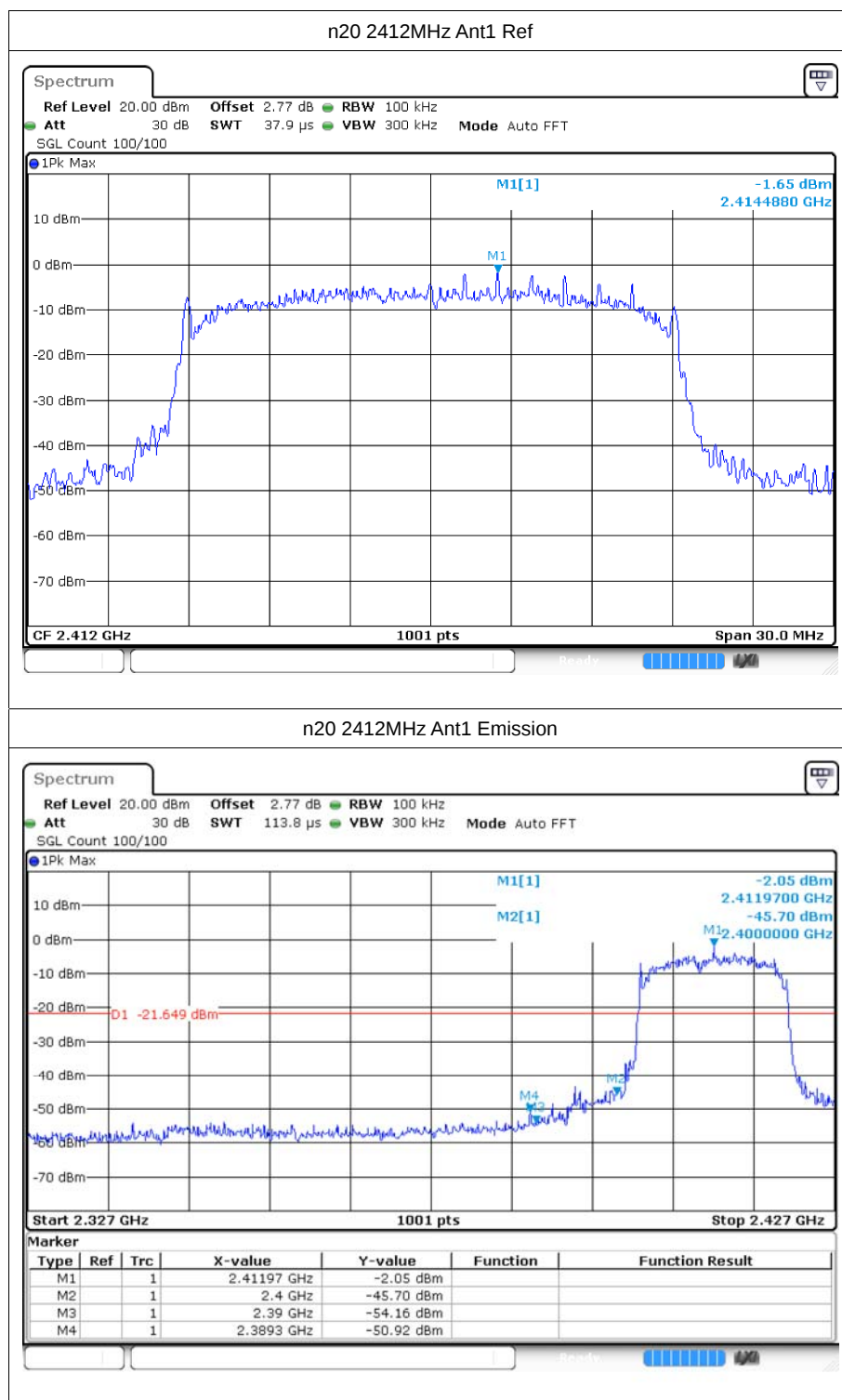
5.2 Test Graphs

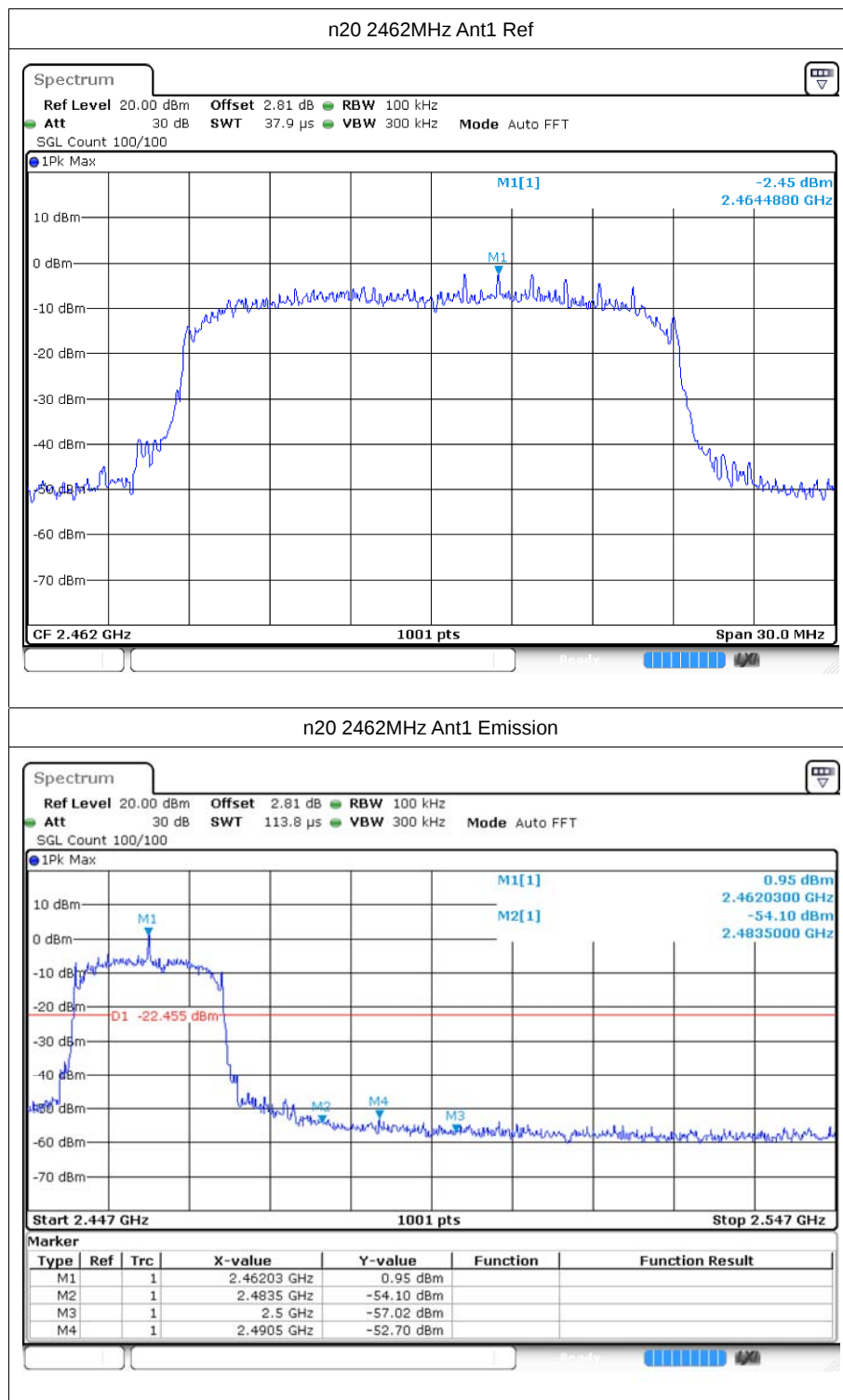


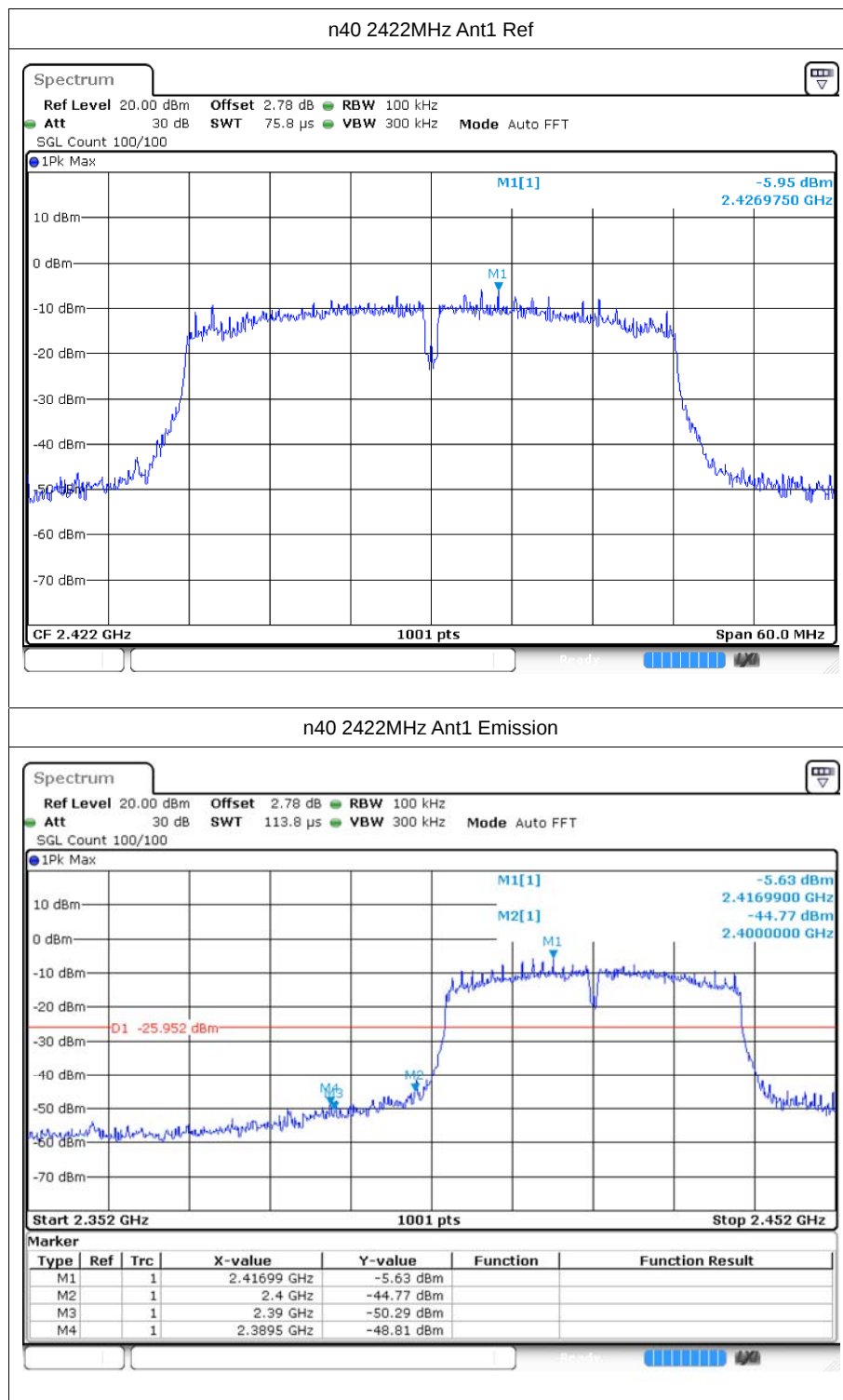


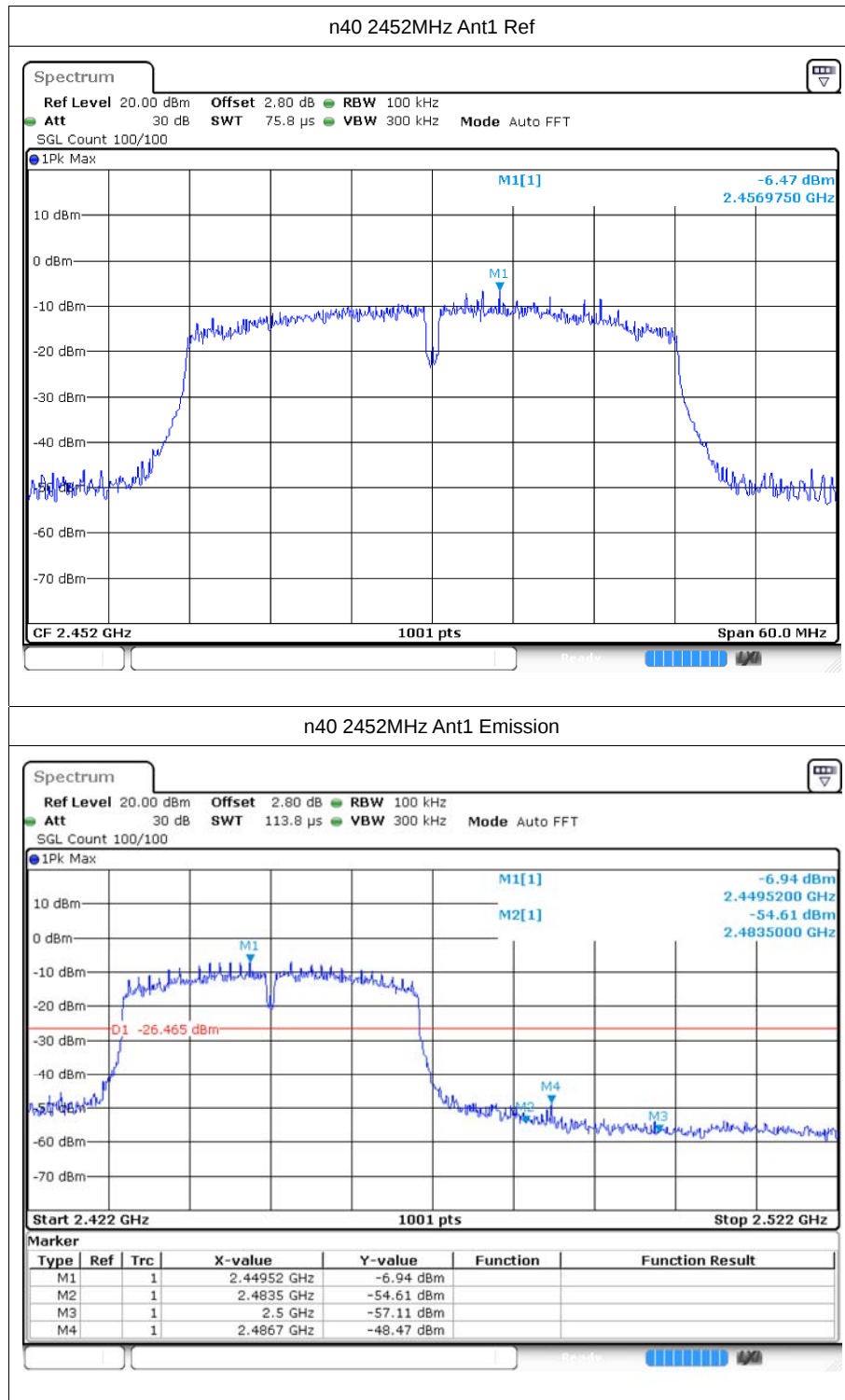












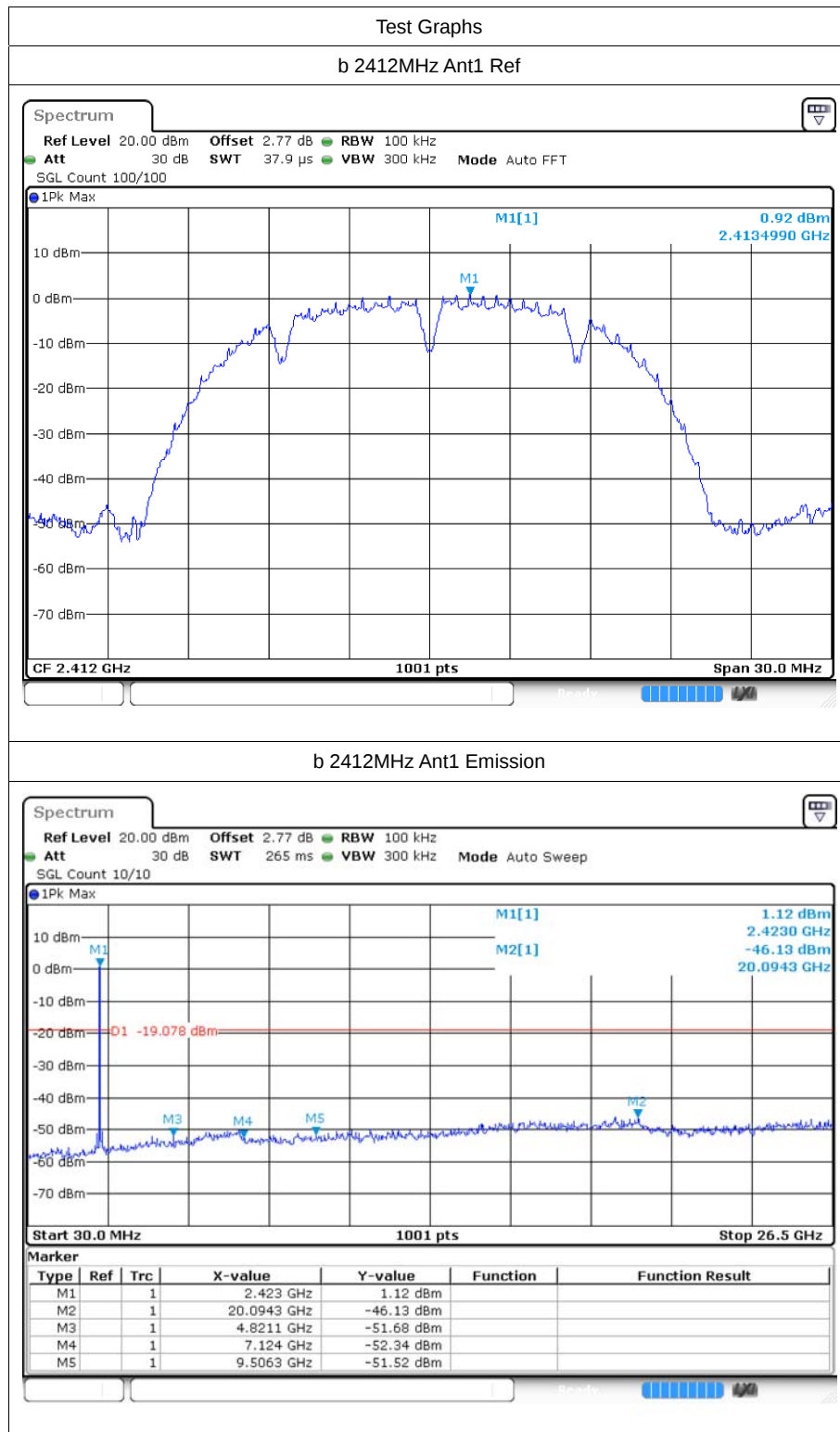


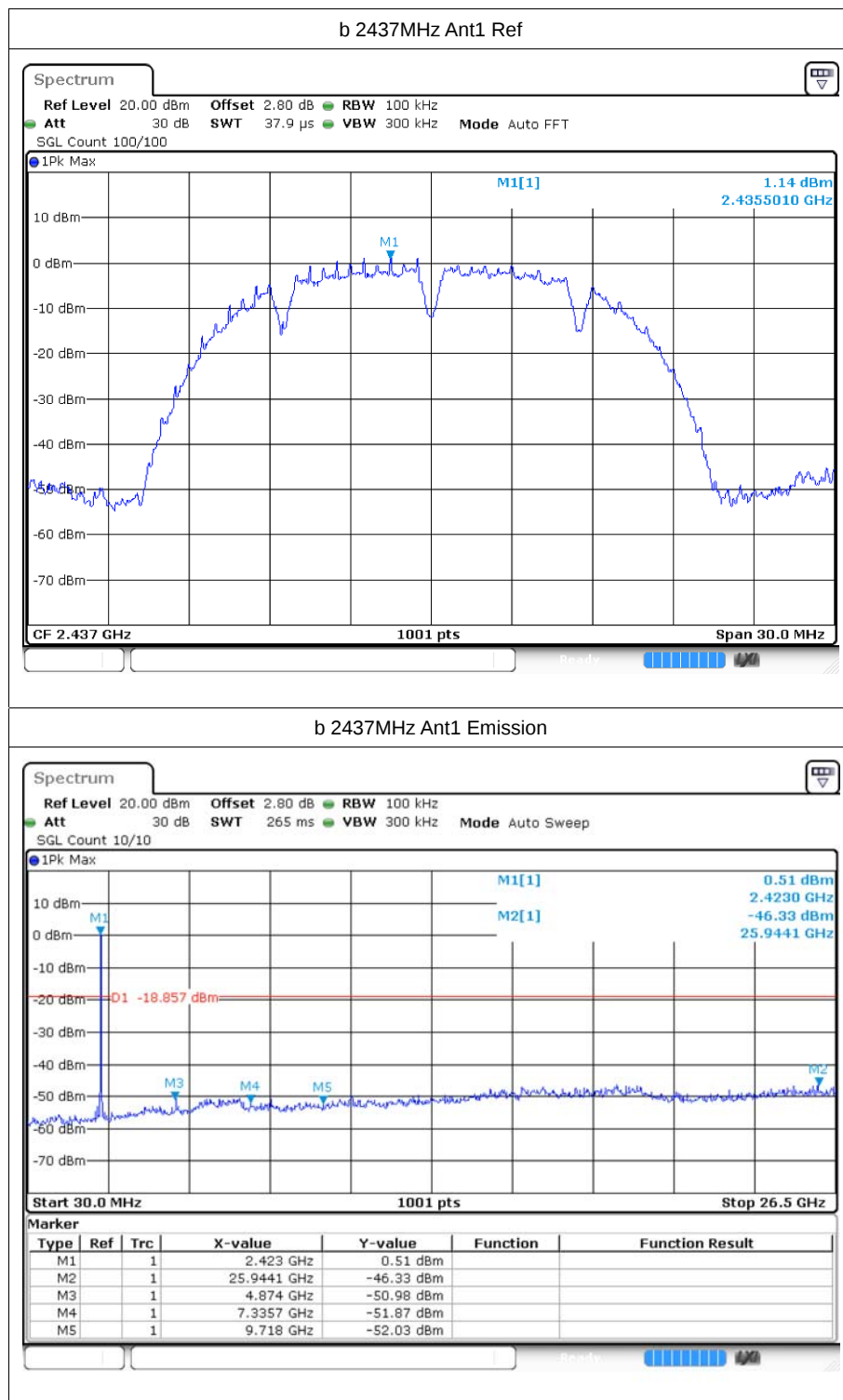
6 Conducted RF Spurious Emission

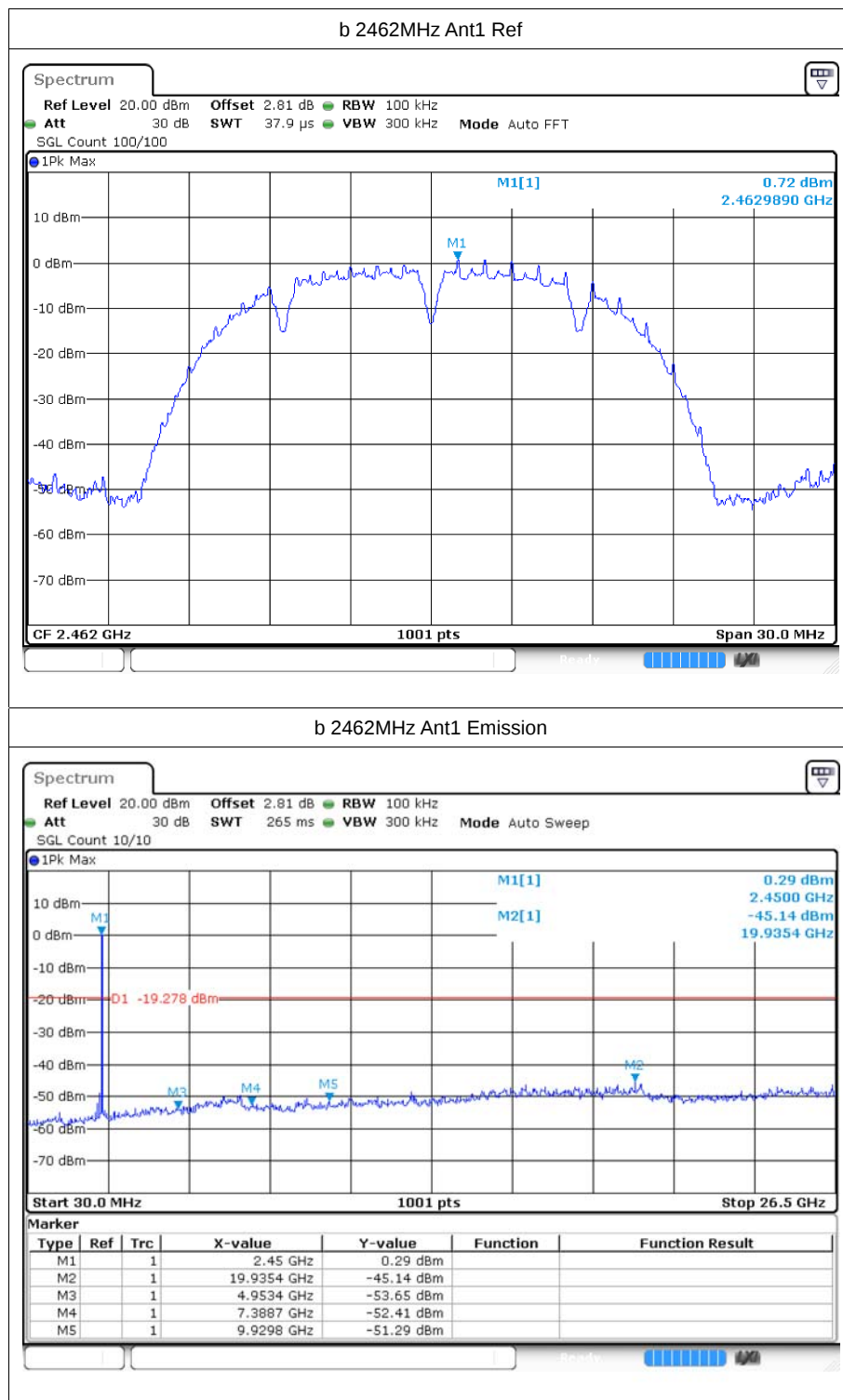
6.1 Test Result

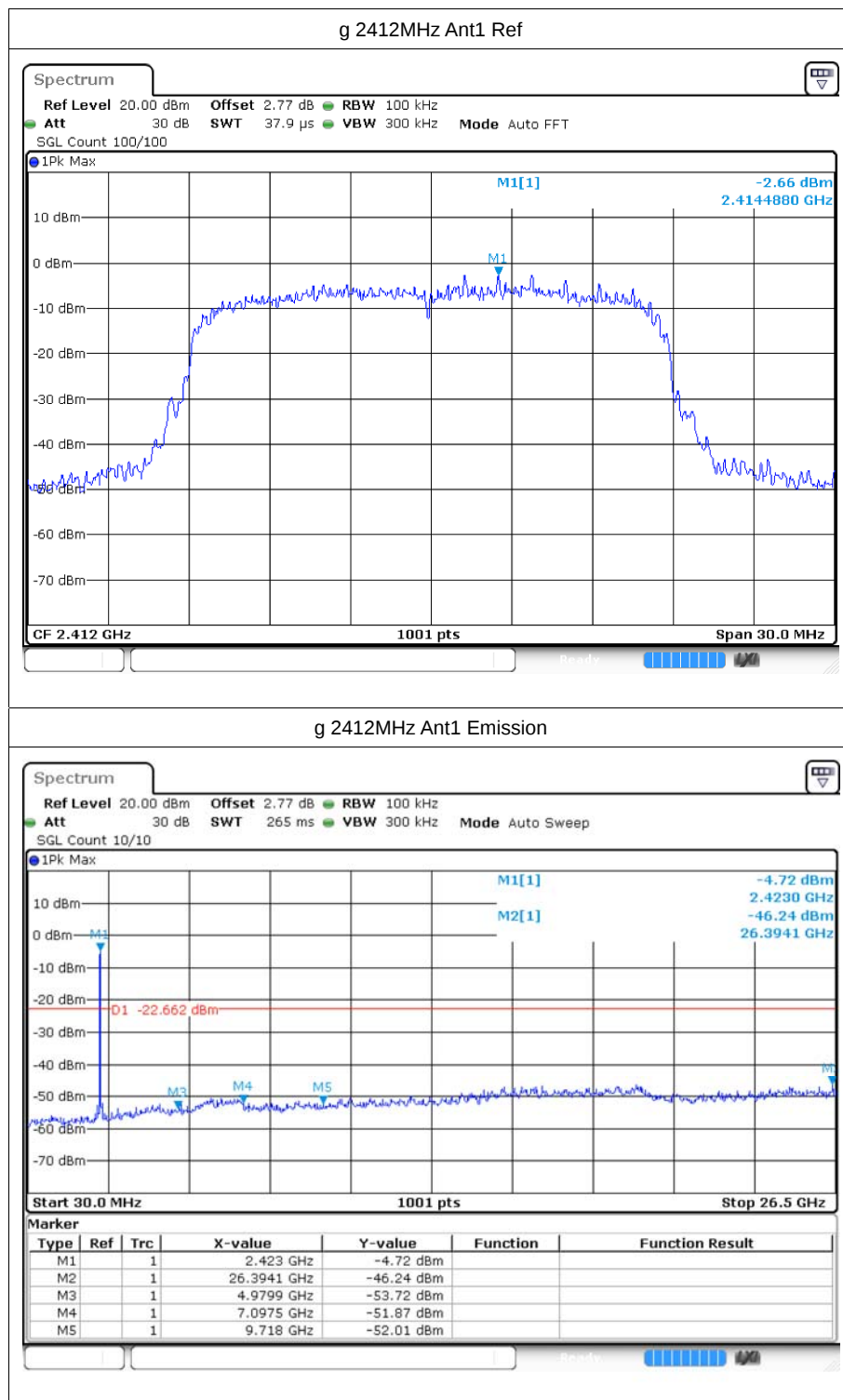
Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
b	2412	Ant1	-47.05	-20	Pass
b	2437	Ant1	-47.46	-20	Pass
b	2462	Ant1	-45.86	-20	Pass
g	2412	Ant1	-43.58	-20	Pass
g	2437	Ant1	-40.67	-20	Pass
g	2462	Ant1	-41.15	-20	Pass
n20	2412	Ant1	-42.38	-20	Pass
n20	2437	Ant1	-42.42	-20	Pass
n20	2462	Ant1	-43.36	-20	Pass
n40	2422	Ant1	-40.9	-20	Pass
n40	2437	Ant1	-39.62	-20	Pass
n40	2452	Ant1	-38.44	-20	Pass

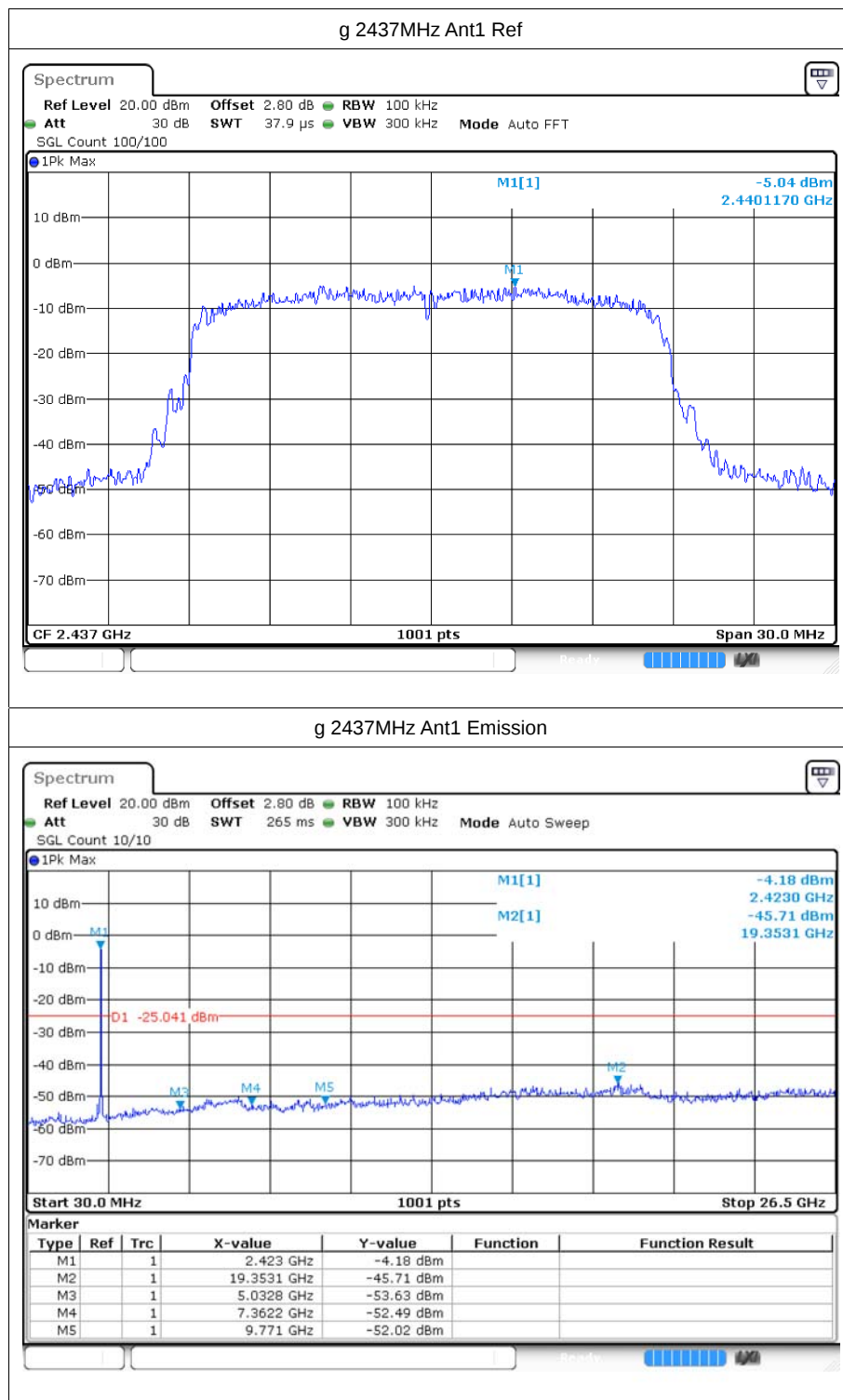
6.2 Test Graphs

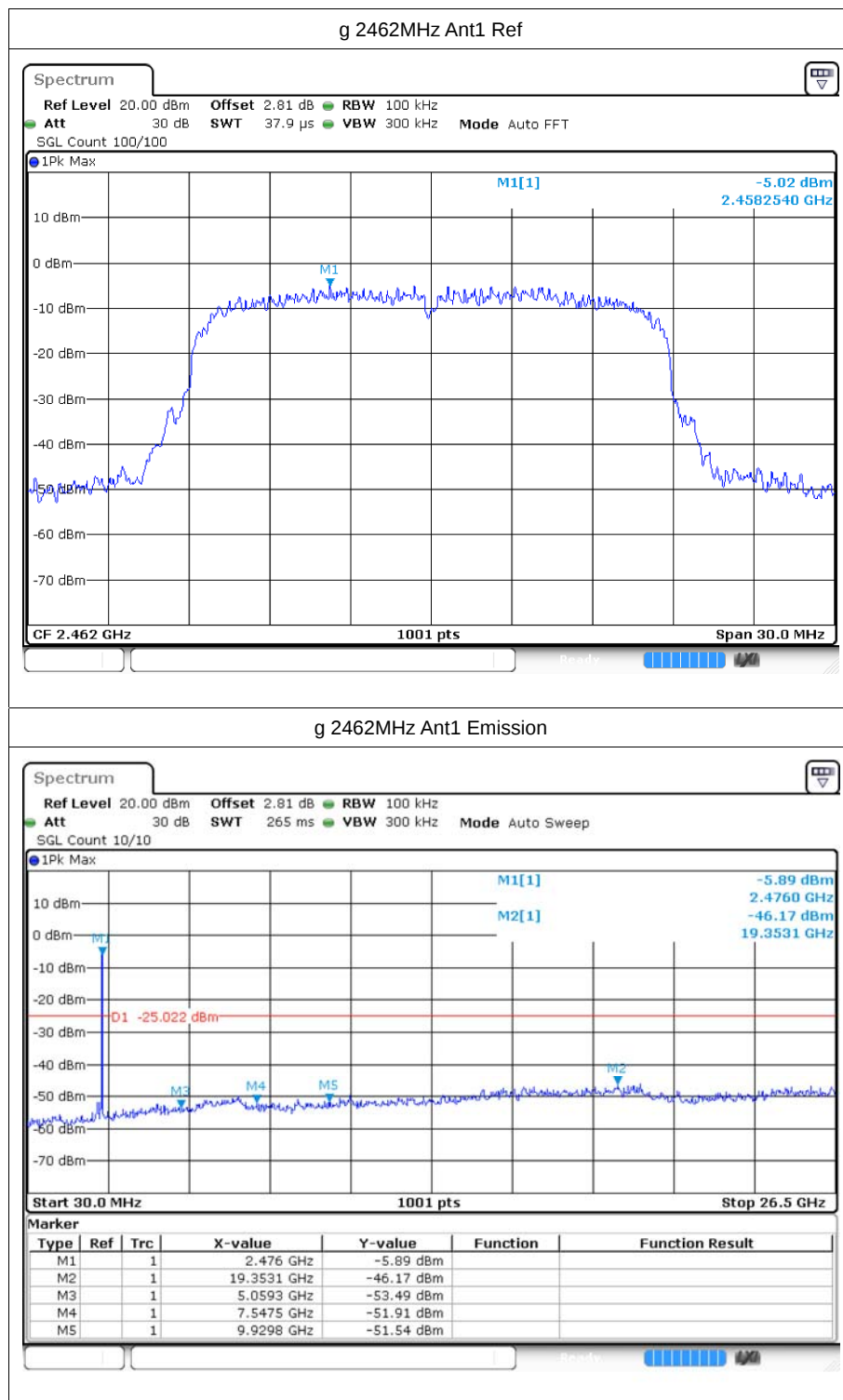


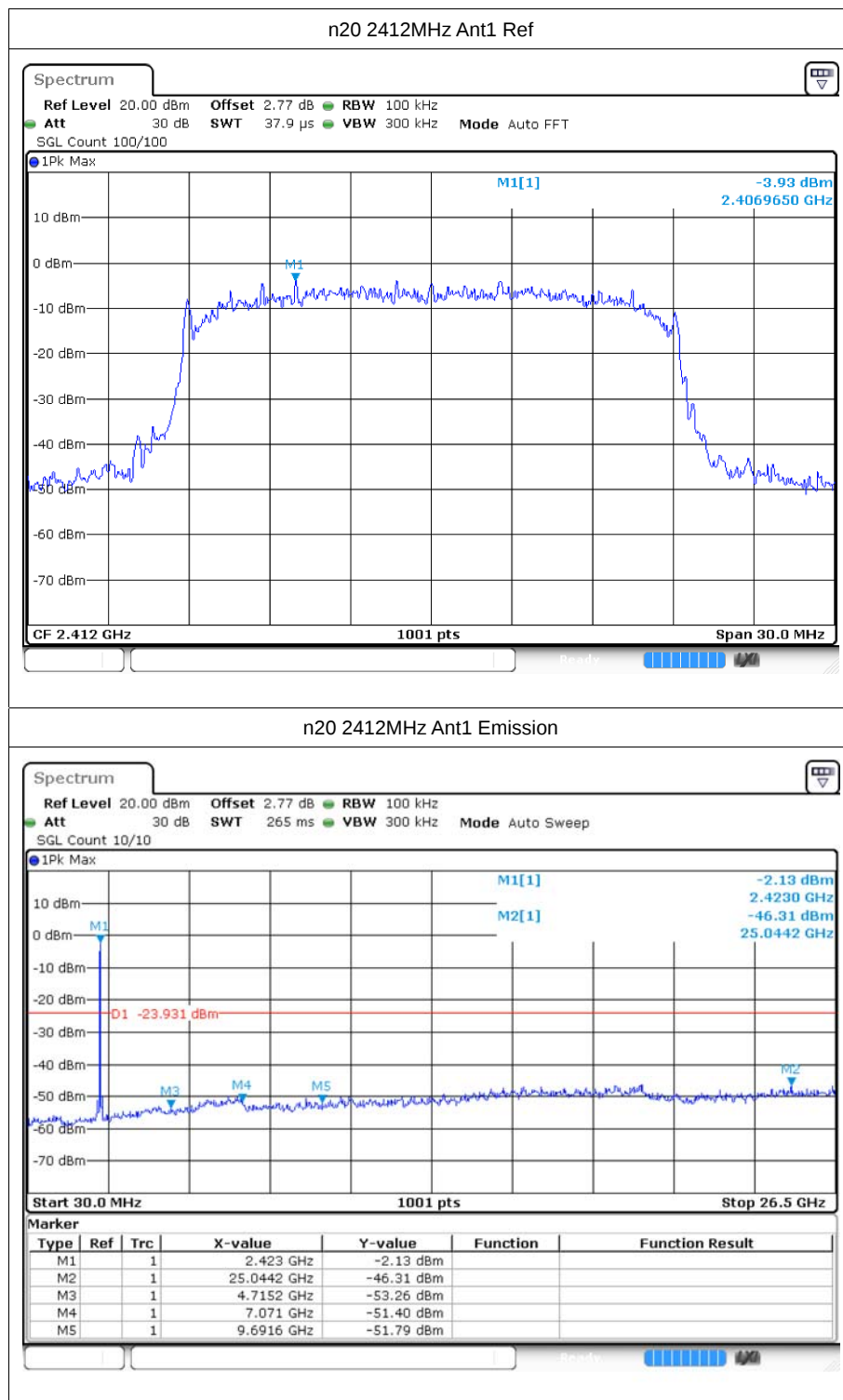


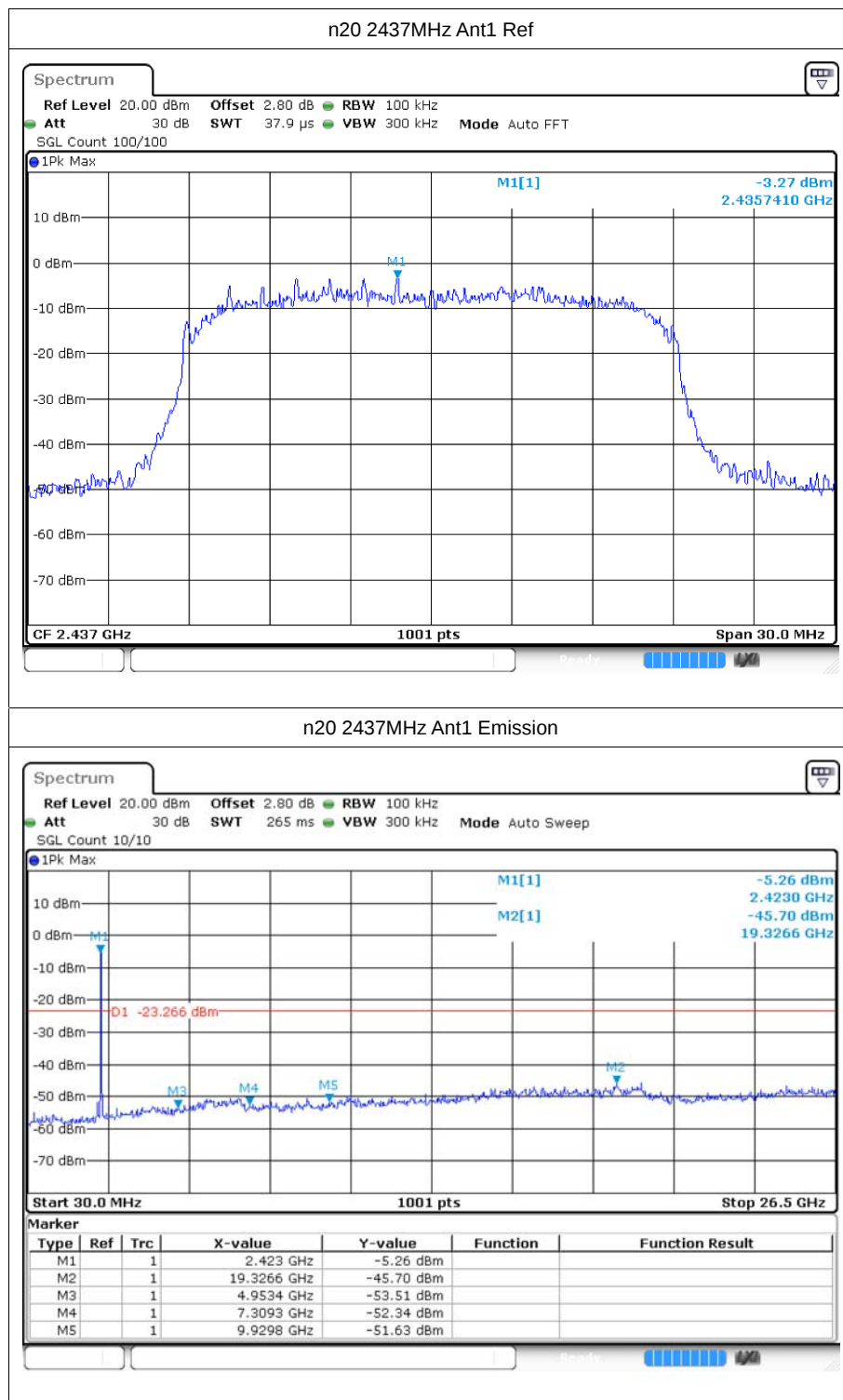


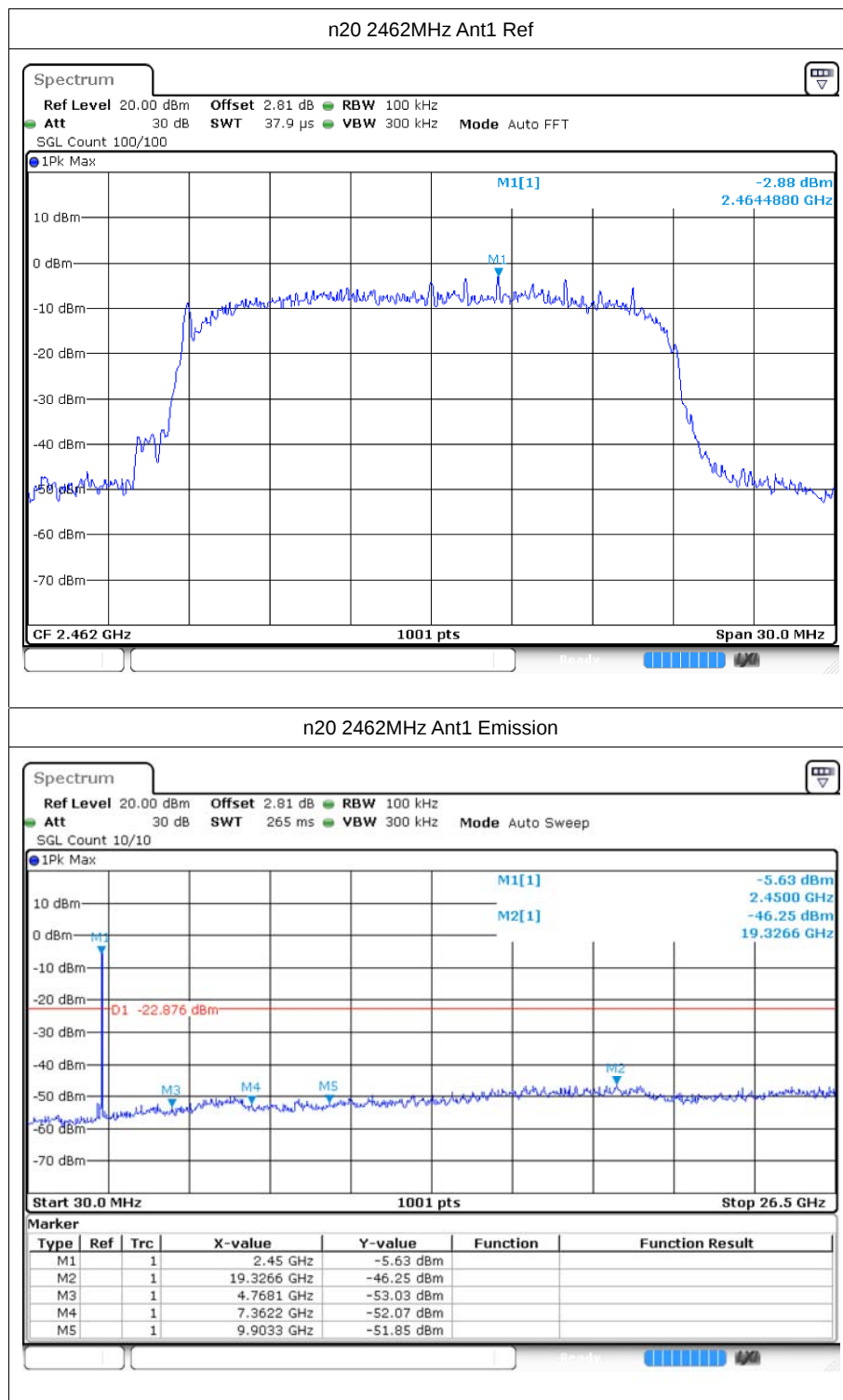


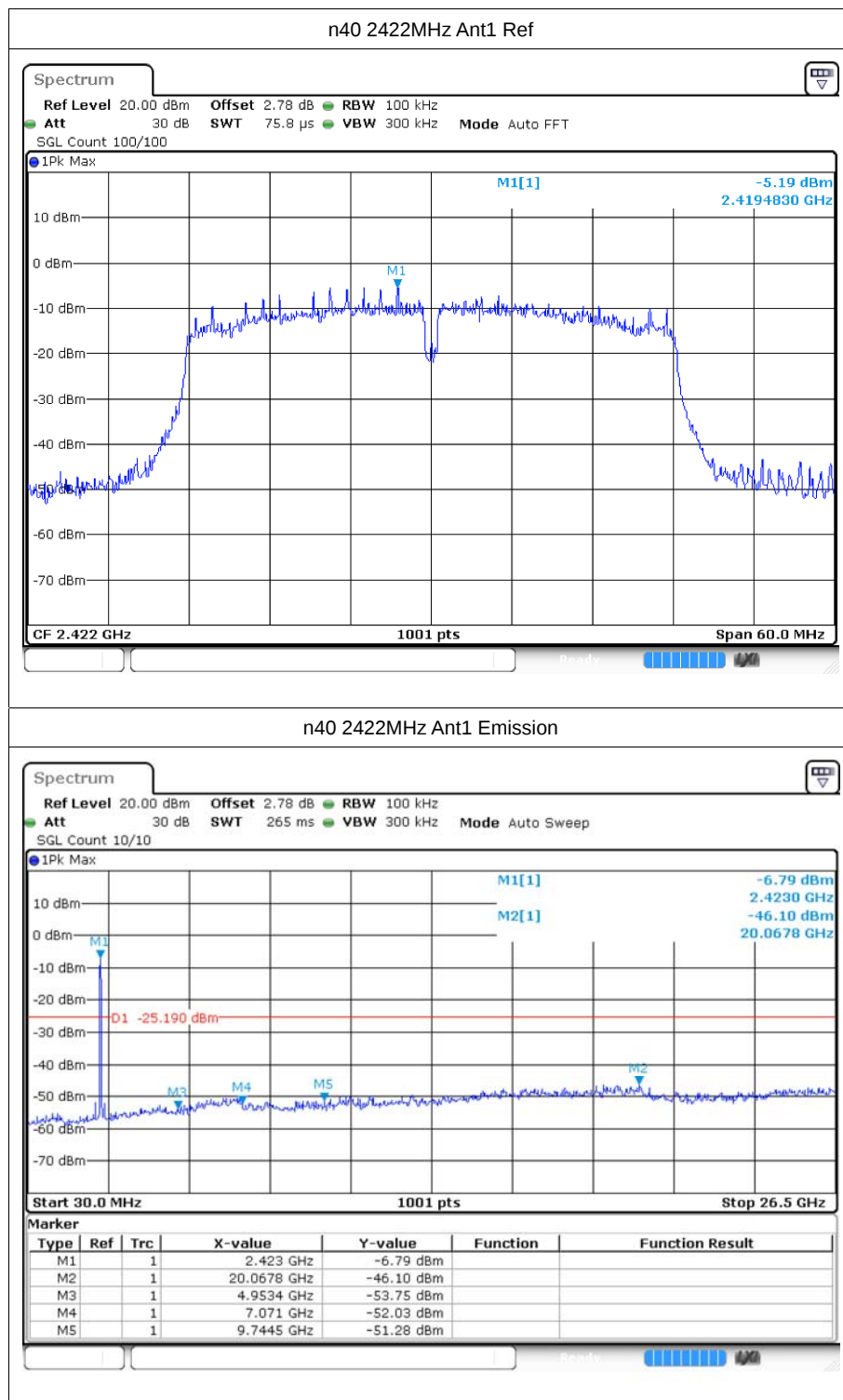


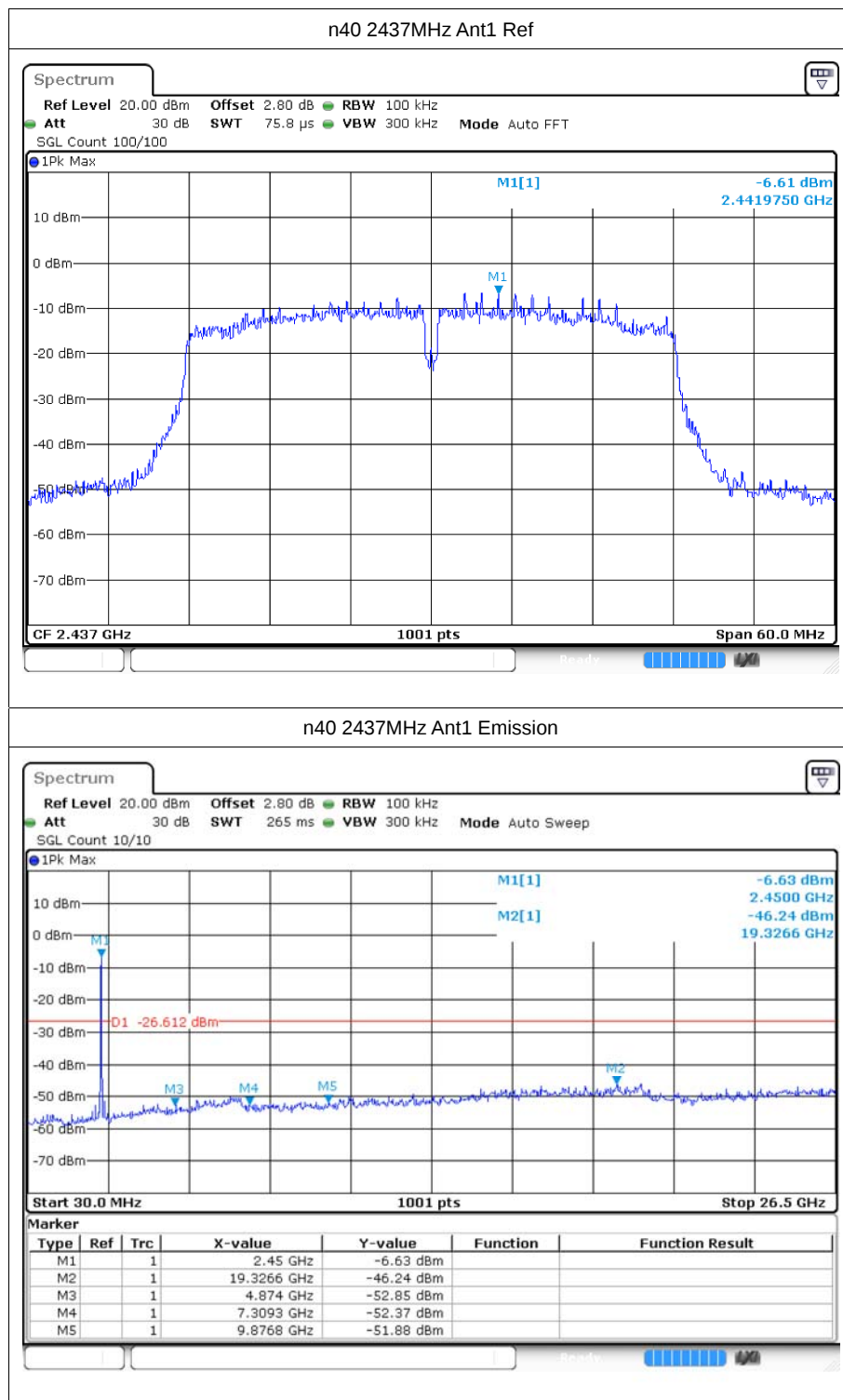


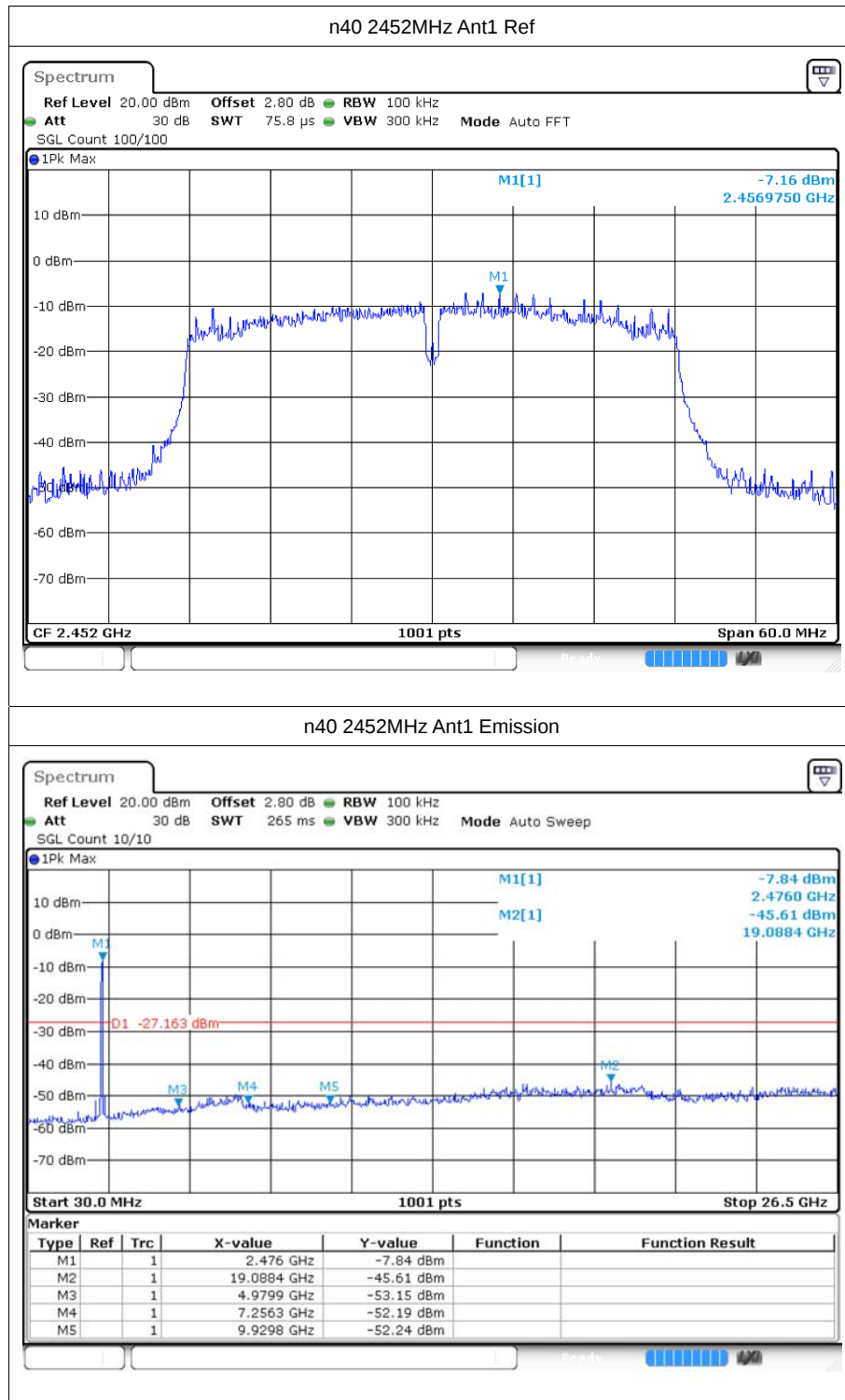














7 Restrict Band

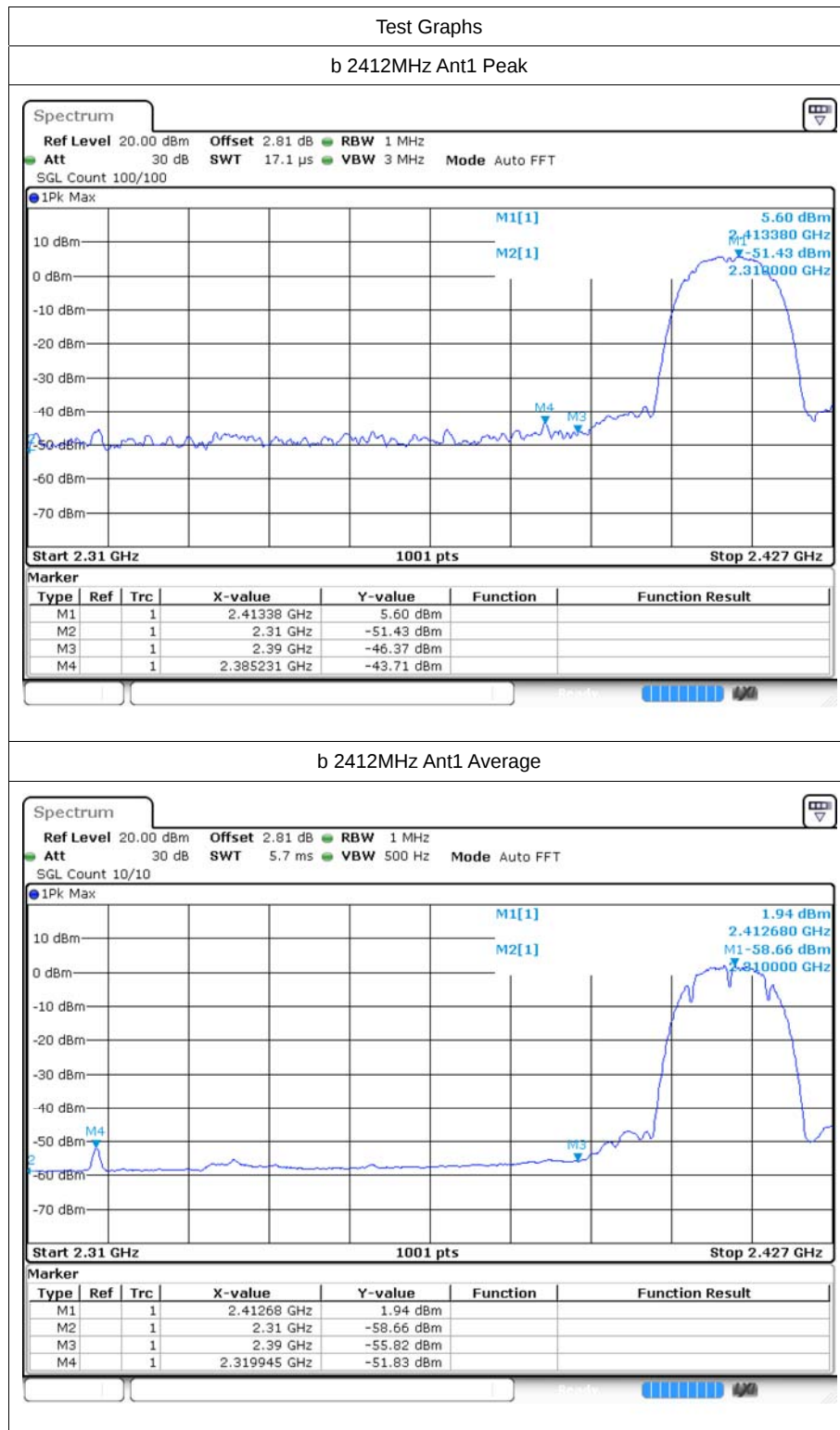
7.1 Test Result

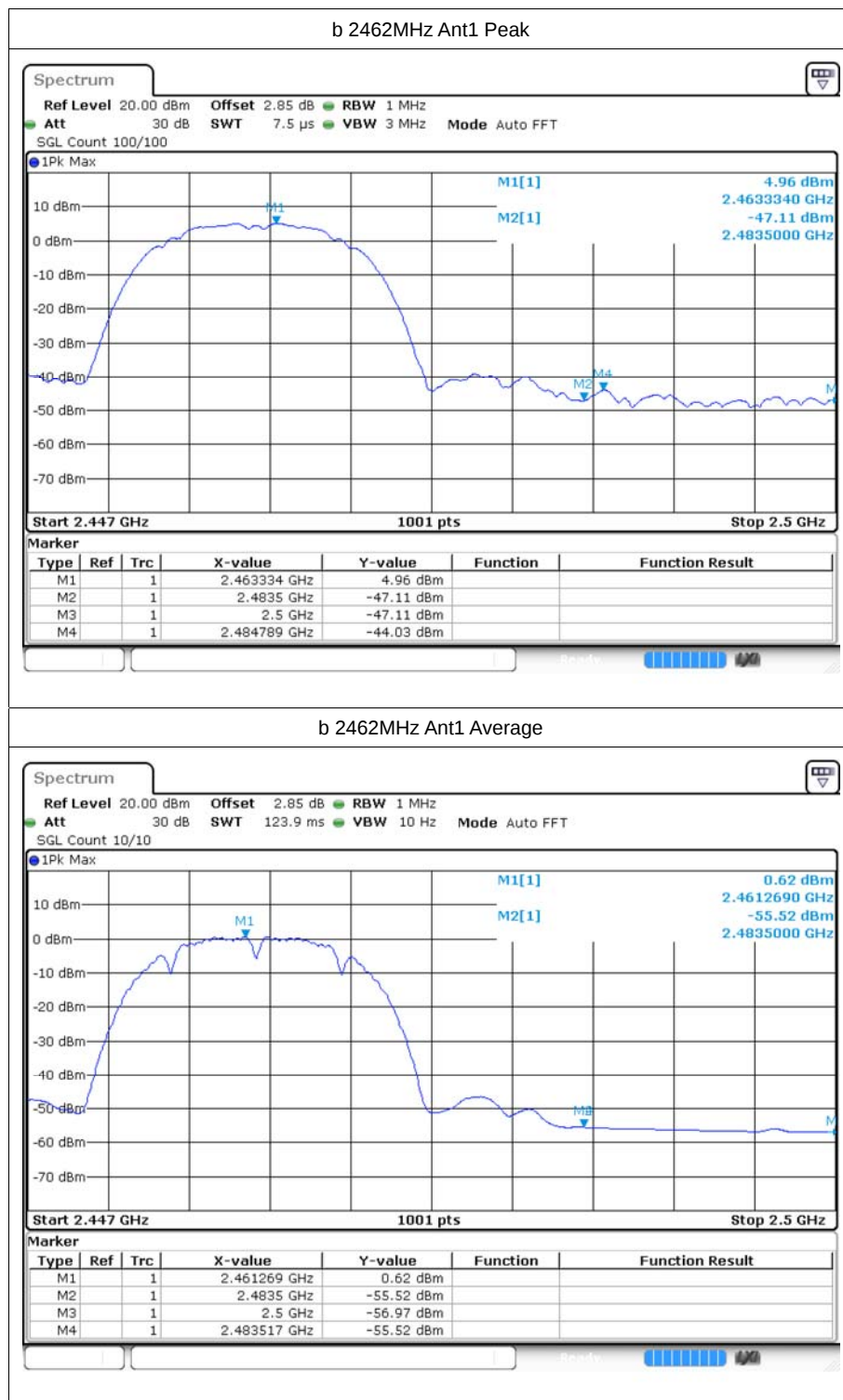
Mod e	Frequency (MHz)	Antenn a	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detecto r	Limit (dBuV/m)	Verdic t
b	2412	Ant1	2310	-51.43	2	45.83	Peak	74	Pass
b	2412	Ant1	2310	-58.66	2	38.6	Average	54	Pass
b	2412	Ant1	2385.231	-43.7	2	53.56	Peak	74	Pass
b	2412	Ant1	2319.945	-51.83	2	45.43	Average	54	Pass
b	2412	Ant1	2390	-46.37	2	50.89	Peak	74	Pass
b	2412	Ant1	2390	-55.82	2	41.44	Average	54	Pass
b	2462	Ant1	2483.5	-47.1	2	50.16	Peak	74	50.16
b	2462	Ant1	2483.5	-55.51	2	41.75	Average	54	Pass
b	2462	Ant1	2484.789	-44.02	2	53.24	Peak	74	Pass
b	2462	Ant1	2483.517	-55.51	2	41.75	Average	54	Pass
b	2462	Ant1	2500	-47.1	2	50.16	Peak	74	Pass
b	2462	Ant1	2500	-56.97	2	40.29	Average	54	Pass
g	2412	Ant1	2310	-49.25	2	48.01	Peak	74	Pass
g	2412	Ant1	2310	-58.05	2	39.21	Average	54	Pass
g	2412	Ant1	2385.465	-42.92	2	54.34	Peak	74	Pass
g	2412	Ant1	2319.945	-51.77	2	45.49	Average	54	Pass
g	2412	Ant1	2390	-46.69	2	50.89	Peak	74	Pass
g	2412	Ant1	2390	-53.96	2	43.3	Average	54	Pass
g	2462	Ant1	2483.5	-43.44	2	53.82	Peak	74	Pass
g	2462	Ant1	2483.5	-53.38	2	43.88	Average	54	Pass
g	2462	Ant1	2484.789	-43.44	2	53.82	Peak	74	Pass
g	2462	Ant1	2483.57	-53.34	2	43.92	Average	54	Pass
g	2462	Ant1	2500	-48.33	2	50.16	Peak	74	Pass
g	2462	Ant1	2500	-55.77	2	41.49	Average	54	Pass
n20	2412	Ant1	2310	-48.67	2	48.59	Peak	74	Pass
n20	2412	Ant1	2310	-57.97	2	39.29	Average	54	Pass
n20	2412	Ant1	2385.699	-42.91	2	54.35	Peak	74	Pass
n20	2412	Ant1	2319.945	-51.95	2	45.31	Average	54	Pass
n20	2412	Ant1	2390	-44.82	2	52.44	Peak	74	Pass
n20	2412	Ant1	2390	-52.99	2	44.27	Average	54	Pass
n20	2462	Ant1	2483.5	-43.3	2	53.96	Peak	74	Pass
n20	2462	Ant1	2483.5	-53.65	2	43.61	Average	54	Pass
n20	2462	Ant1	2485.531	-43.16	2	54.1	Peak	74	Pass
n20	2462	Ant1	2484.259	-53.55	2	43.71	Average	54	Pass

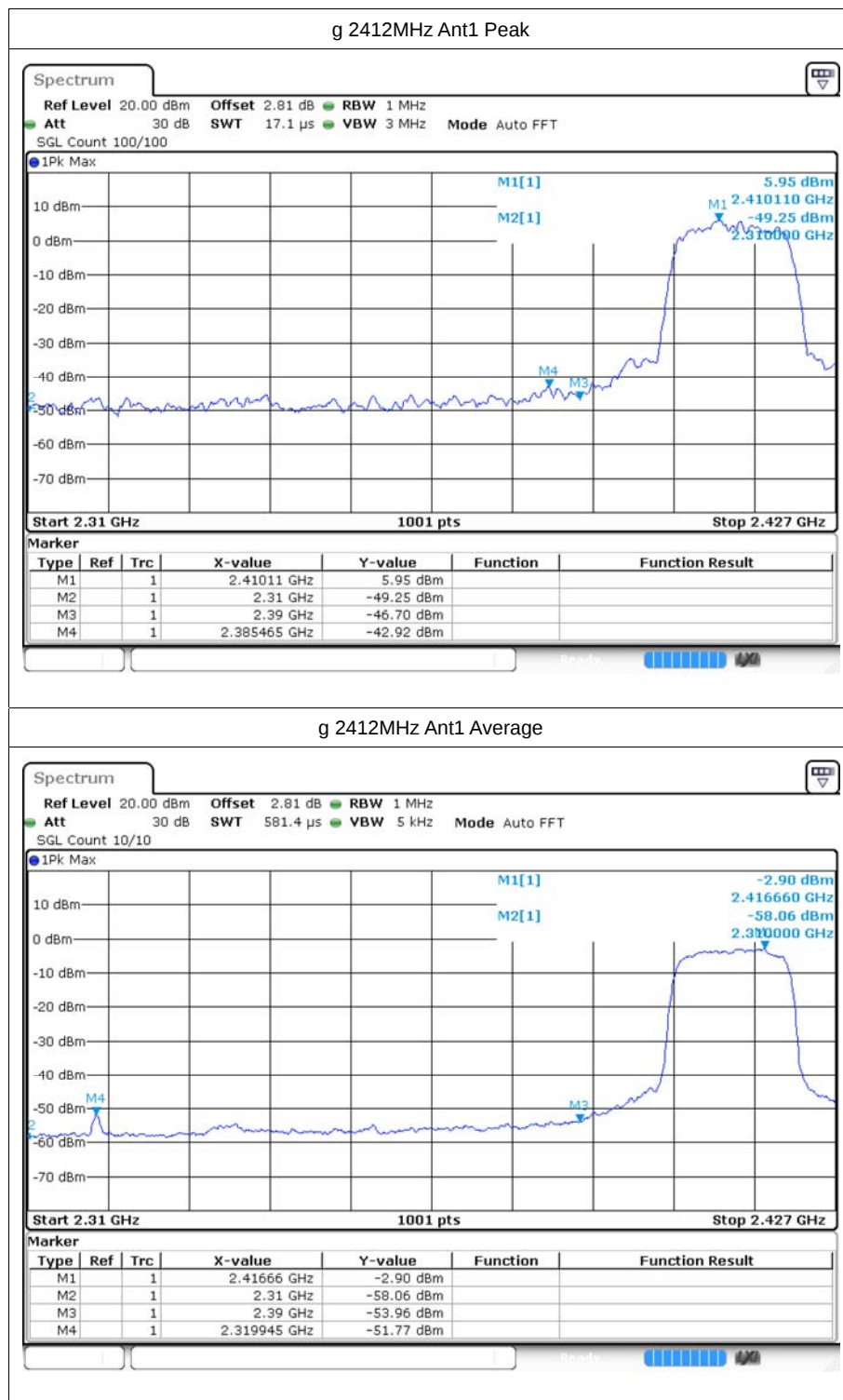


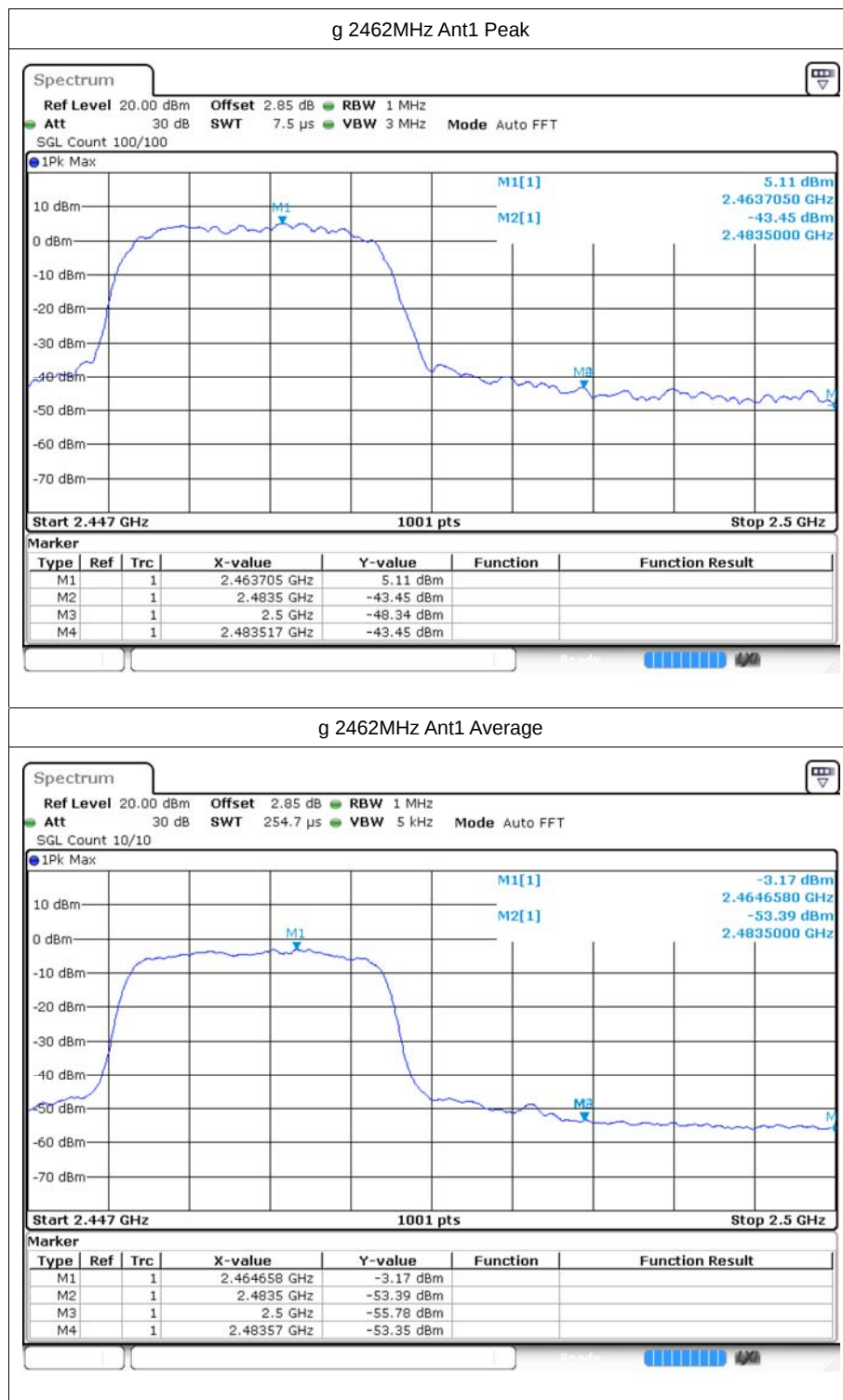
n20	2462	Ant1	2500	-45.13	2	52.13	Peak	74	Pass
n20	2462	Ant1	2500	-55.34	2	41.92	Average	54	Pass
n40	2422	Ant1	2310	-48.89	2	48.37	Peak	74	Pass
n40	2422	Ant1	2310	-57.72	2	39.54	Average	54	Pass
n40	2422	Ant1	2389.662	-40.82	2	56.44	Peak	74	Pass
n40	2422	Ant1	2389.804	-50.76	2	46.5	Average	54	Pass
n40	2422	Ant1	2390	-41.42	2	55.84	Peak	74	Pass
n40	2422	Ant1	2390	-50.76	2	46.5	Average	54	Pass
n40	2452	Ant1	2483.5	-42.59	2	54.67	Peak	74	Pass
n40	2452	Ant1	2483.5	-51.63	2	45.63	Average	54	Pass
n40	2452	Ant1	2487.754	-38.34	2	58.92	Peak	74	Pass
n40	2452	Ant1	2483.776	-51.32	2	45.94	Average	54	Pass
n40	2452	Ant1	2500	-48.08	2	49.18	Peak	74	Pass
n40	2452	Ant1	2500	-55.72	2	41.54	Average	54	Pass

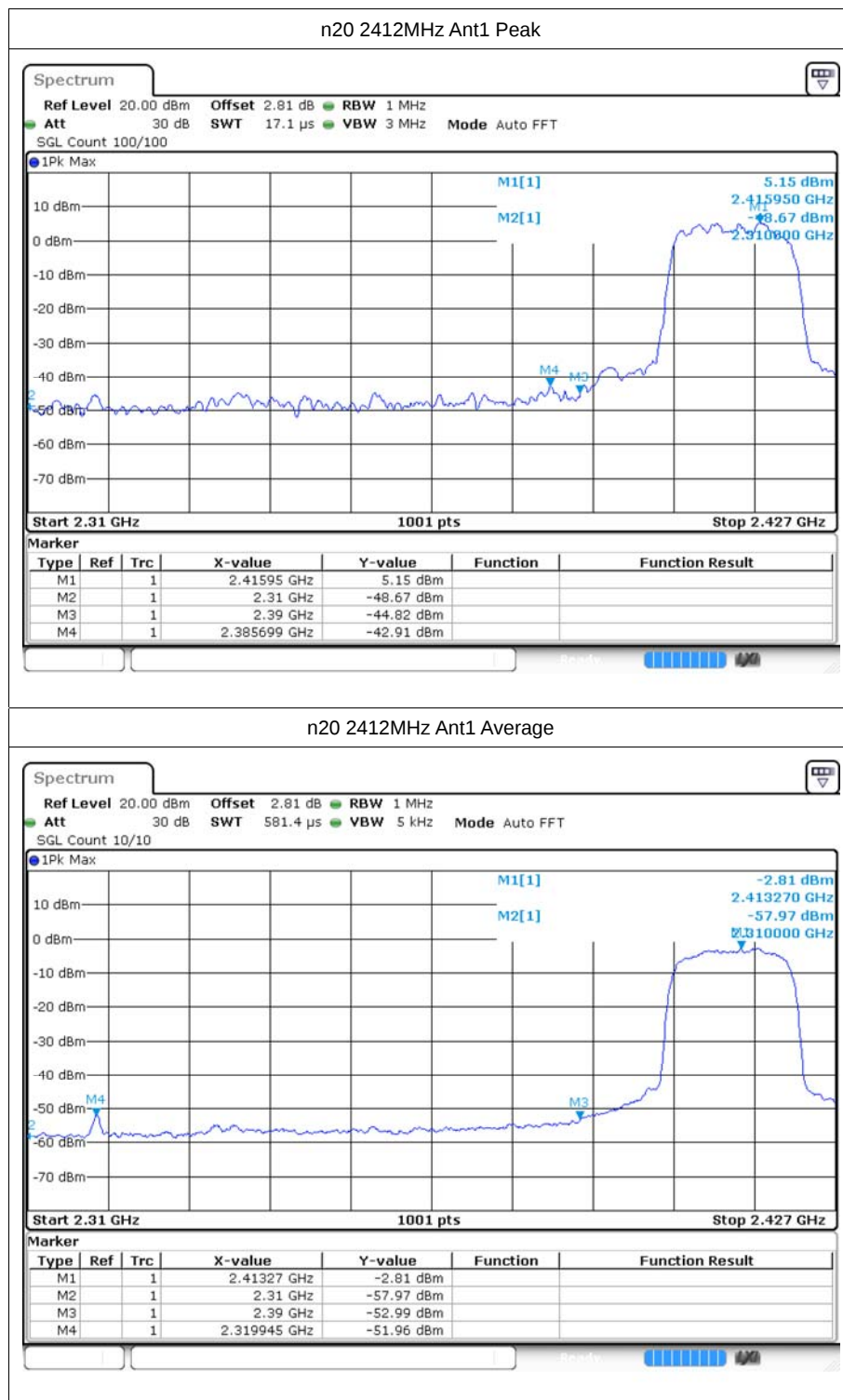
7.2 Test Graphs

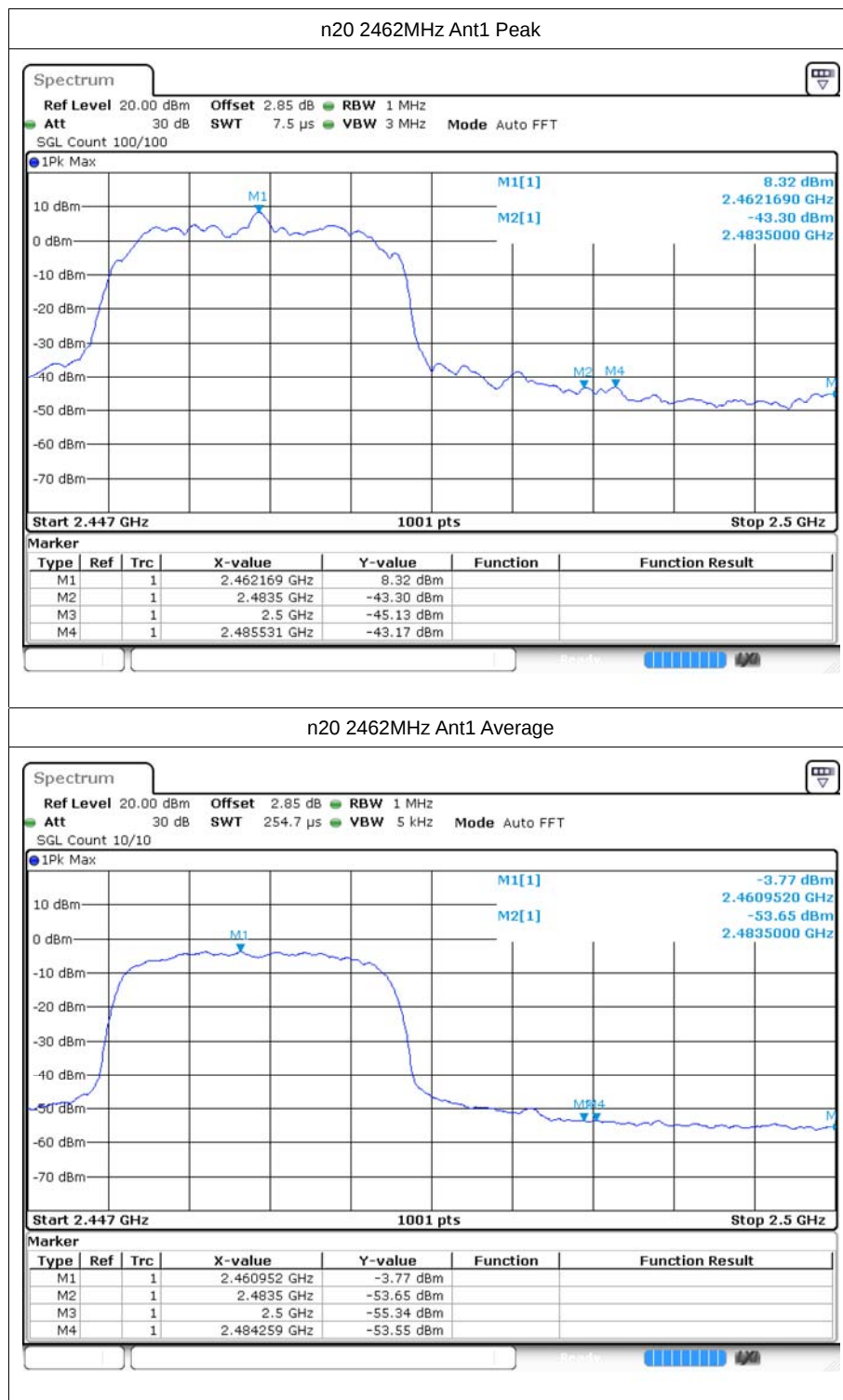


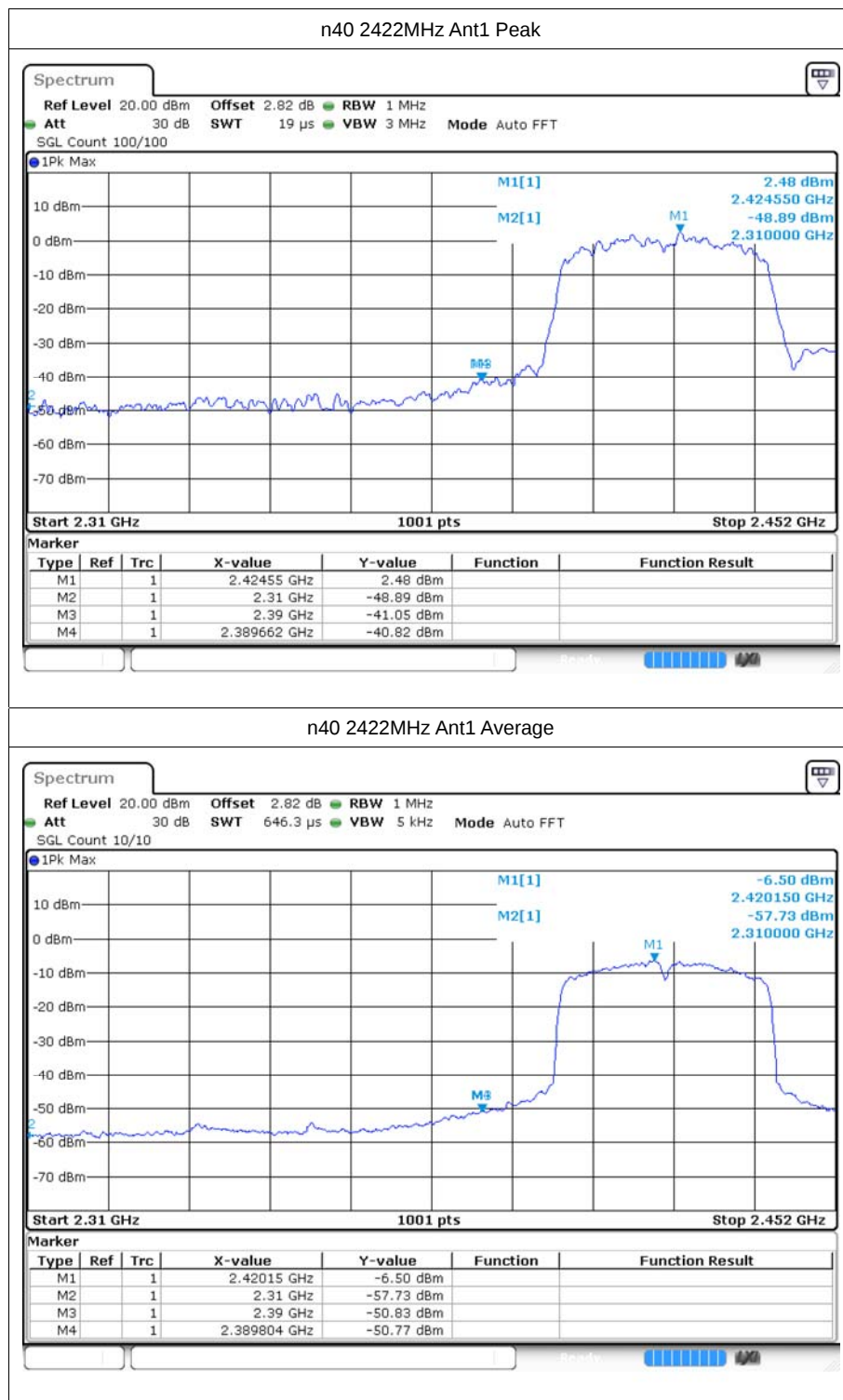


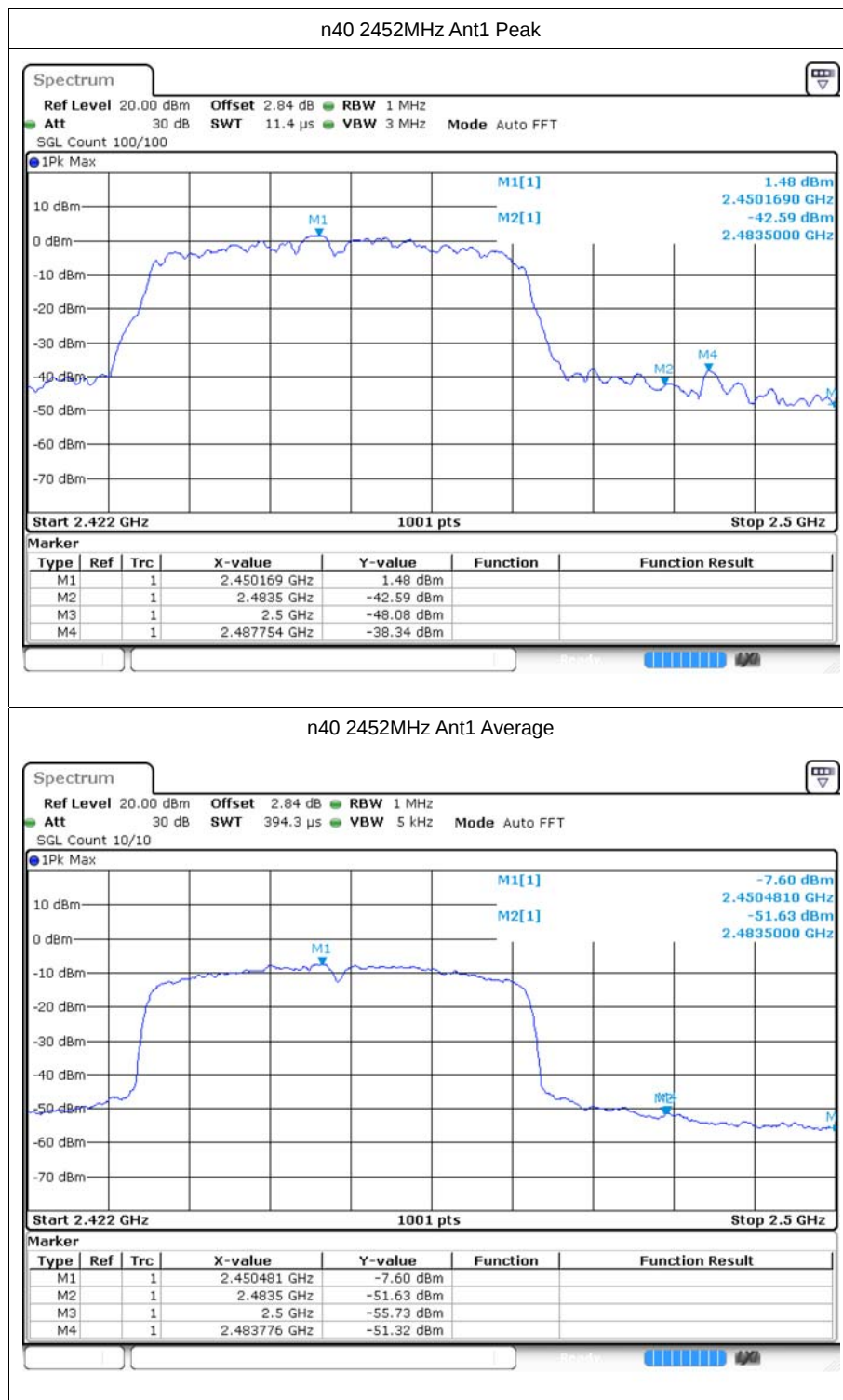












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