



## Appendix C

### RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: EBOOK READER

Trade Mark: HQ MEEBOOK

Test Model: MEEBOOK M7

Environmental Conditions

Temperature:	25.2°C
Relative Humidity:	51.2%
ATM Pressure:	101Kpa
Test Engineer:	Simba Huang
Supervised by:	Seal Chen



# Contents

	Page
<b>COVER PAGE</b>	
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

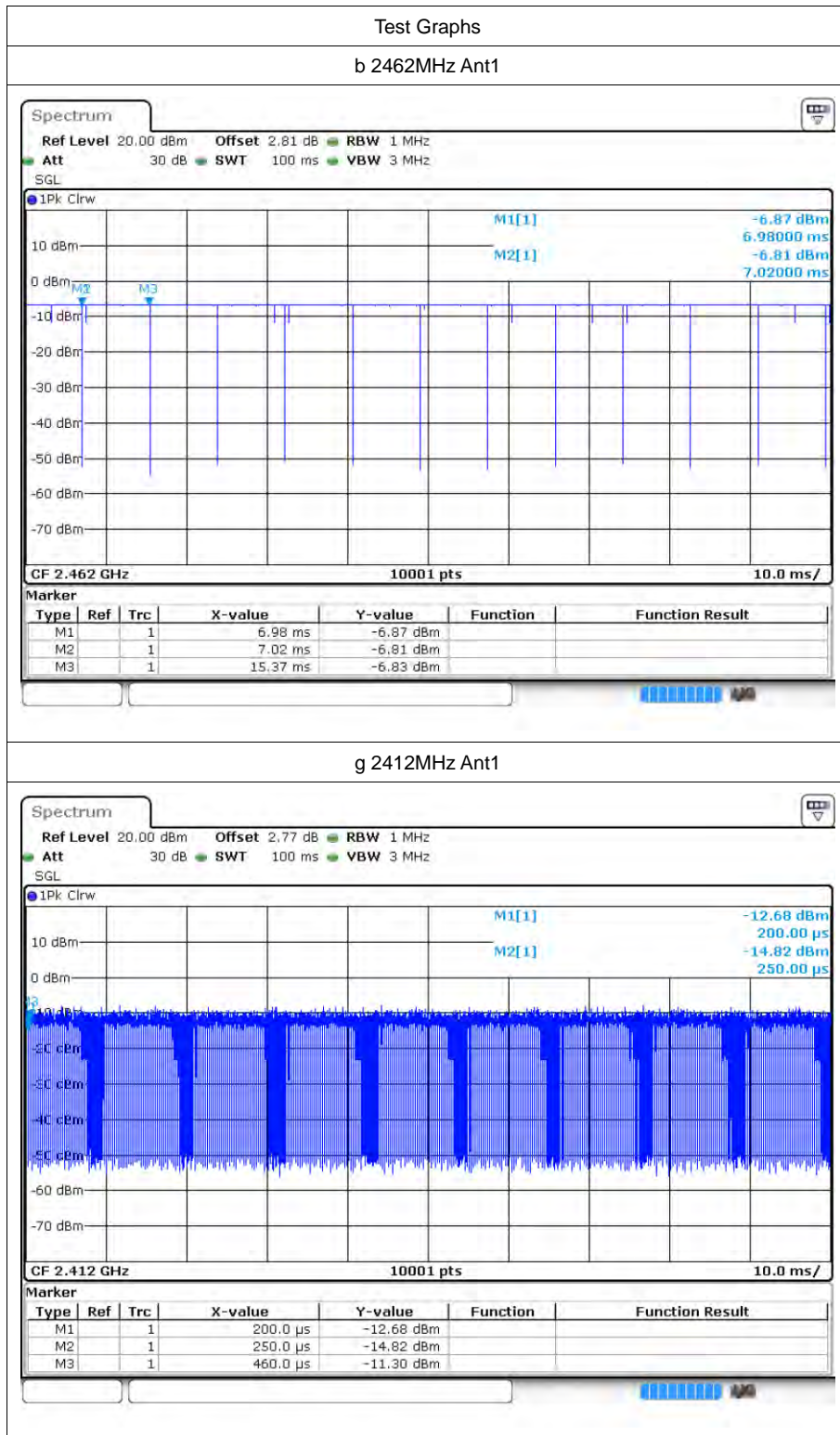
## 1.1 Test Result

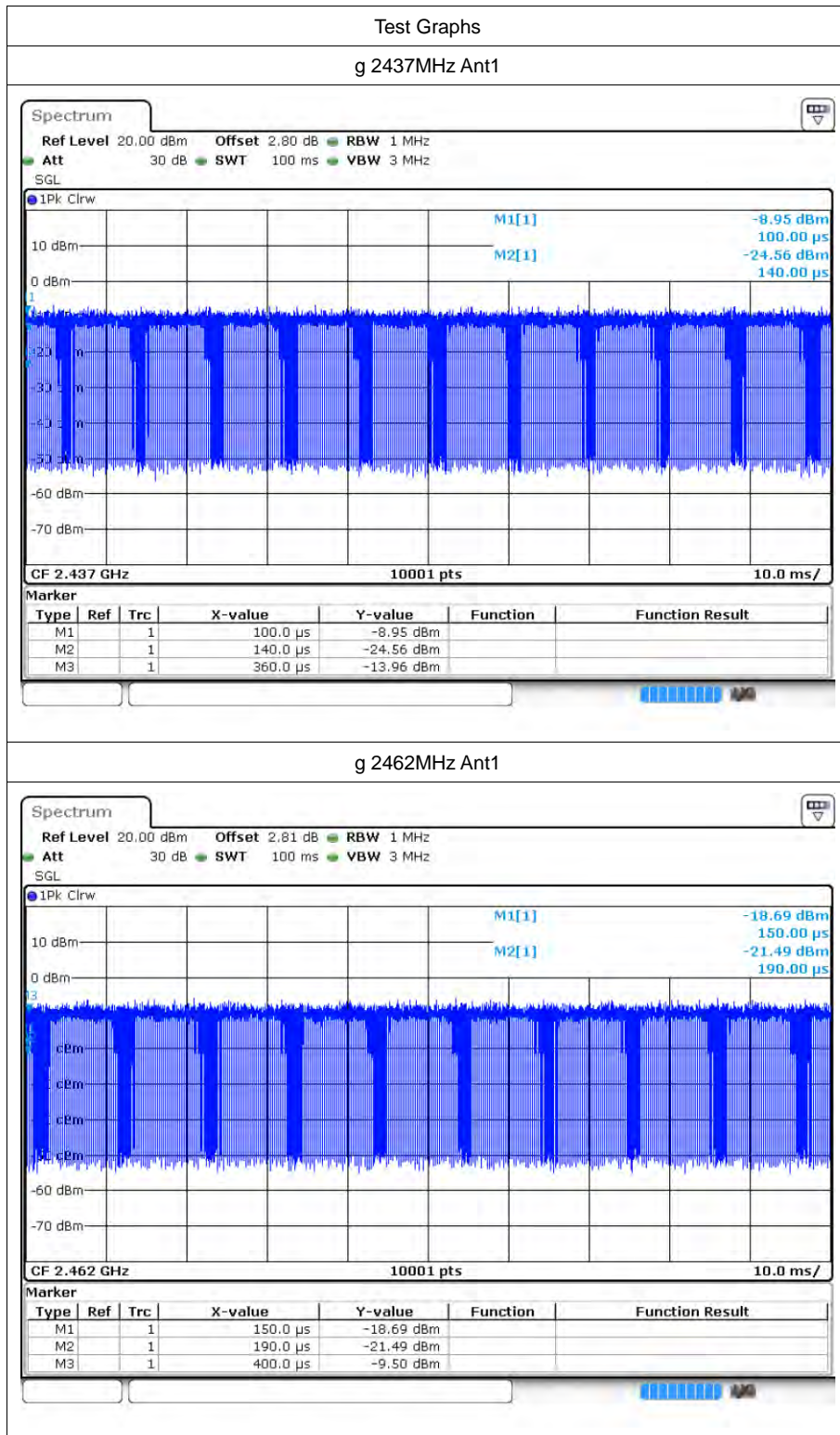
Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	1/T (kHz)
b	2412	Ant1	99.6	0.12
b	2437	Ant1	99.6	0.12
b	2462	Ant1	99.6	0.12
g	2412	Ant1	86.74	4.76
g	2437	Ant1	86.56	4.55
g	2462	Ant1	86.71	4.76
n20	2412	Ant1	87.38	4.35
n20	2437	Ant1	87.38	4.35
n20	2462	Ant1	87.2	4.35
n40	2422	Ant1	76.74	4.76
n40	2437	Ant1	76.8	4.55
n40	2452	Ant1	76.76	4.76

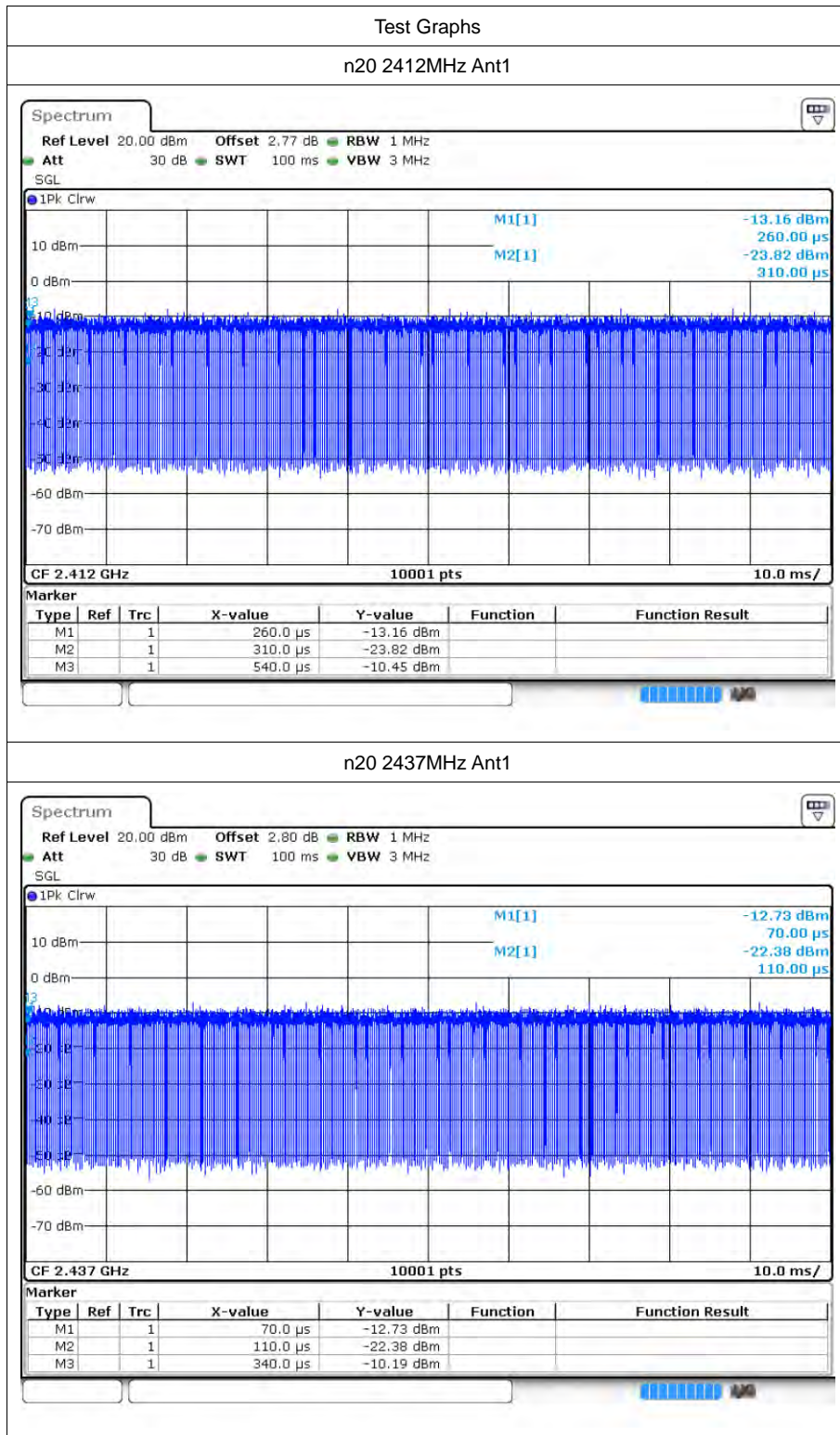


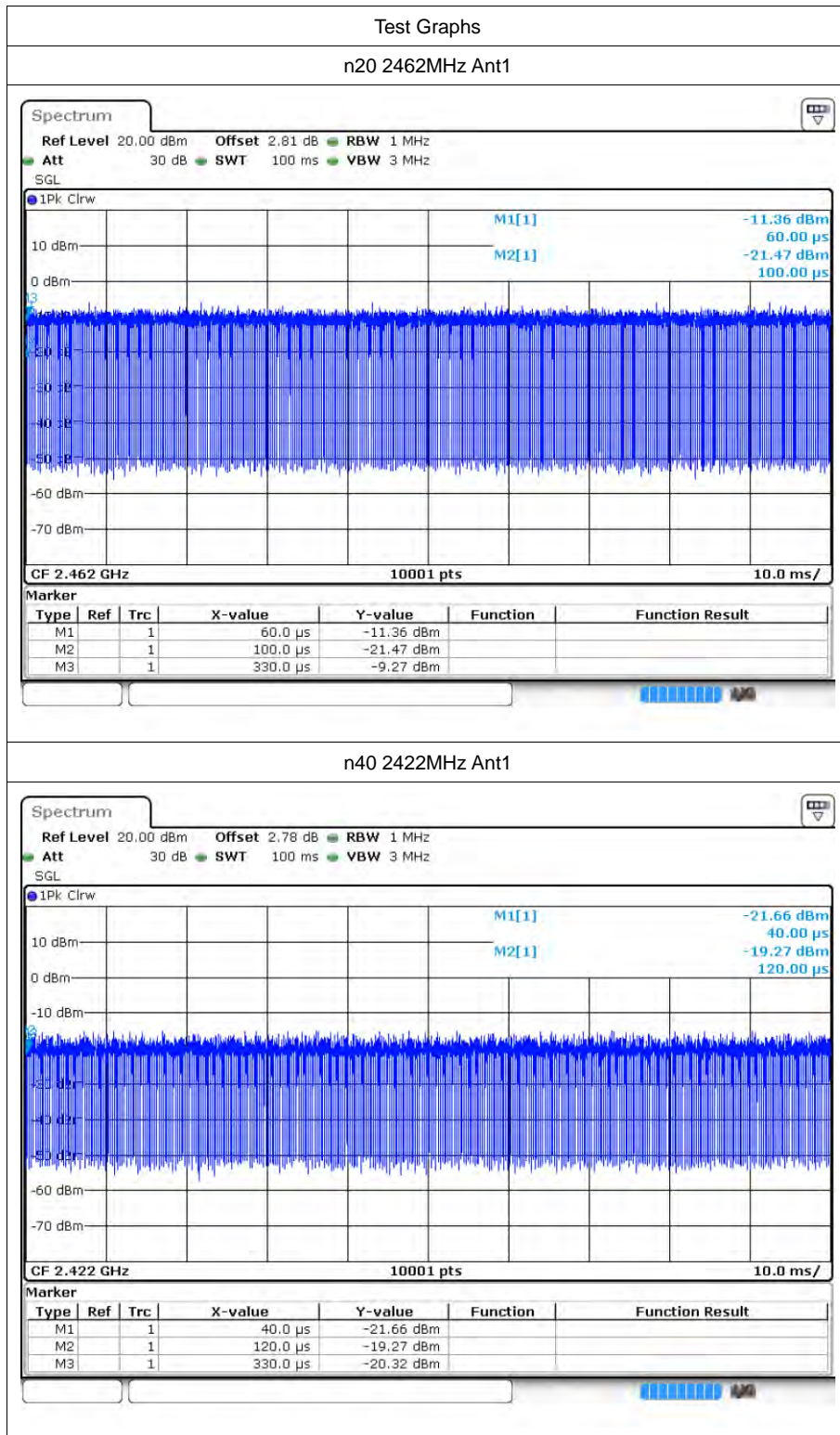
## 1.2 Test Graphs



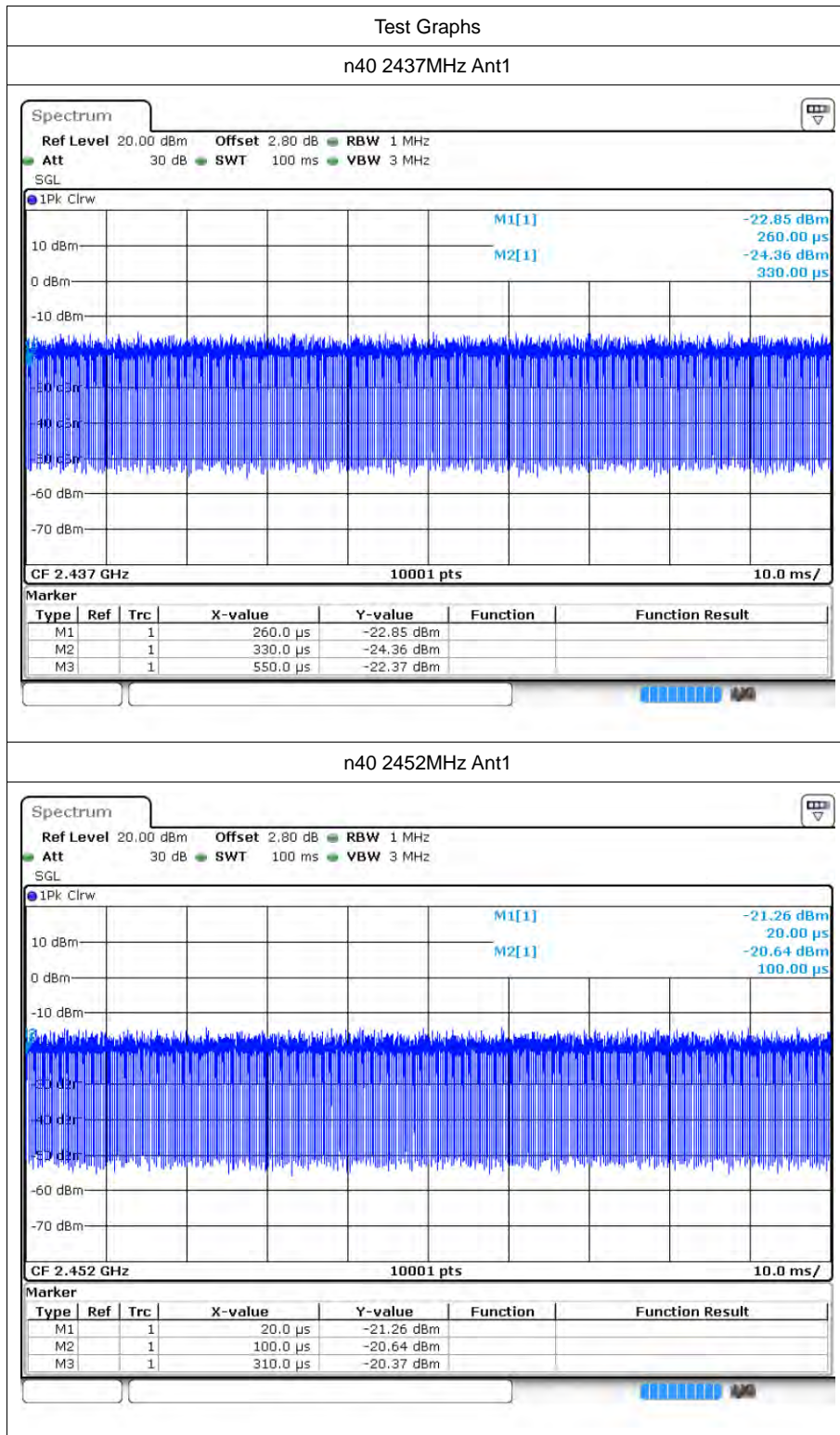












## 2 Maximum Conducted Output Power

### 2.1 Test Result

Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
b	2412	Ant1	3.79	30	Pass
b	2437	Ant1	3.57	30	Pass
b	2462	Ant1	3.56	30	Pass
g	2412	Ant1	1.46	30	Pass
g	2437	Ant1	2.43	30	Pass
g	2462	Ant1	3.2	30	Pass
n20	2412	Ant1	1.16	30	Pass
n20	2437	Ant1	2.17	30	Pass
n20	2462	Ant1	2.8	30	Pass
n40	2422	Ant1	1.46	30	Pass
n40	2437	Ant1	1.89	30	Pass
n40	2452	Ant1	2.24	30	Pass

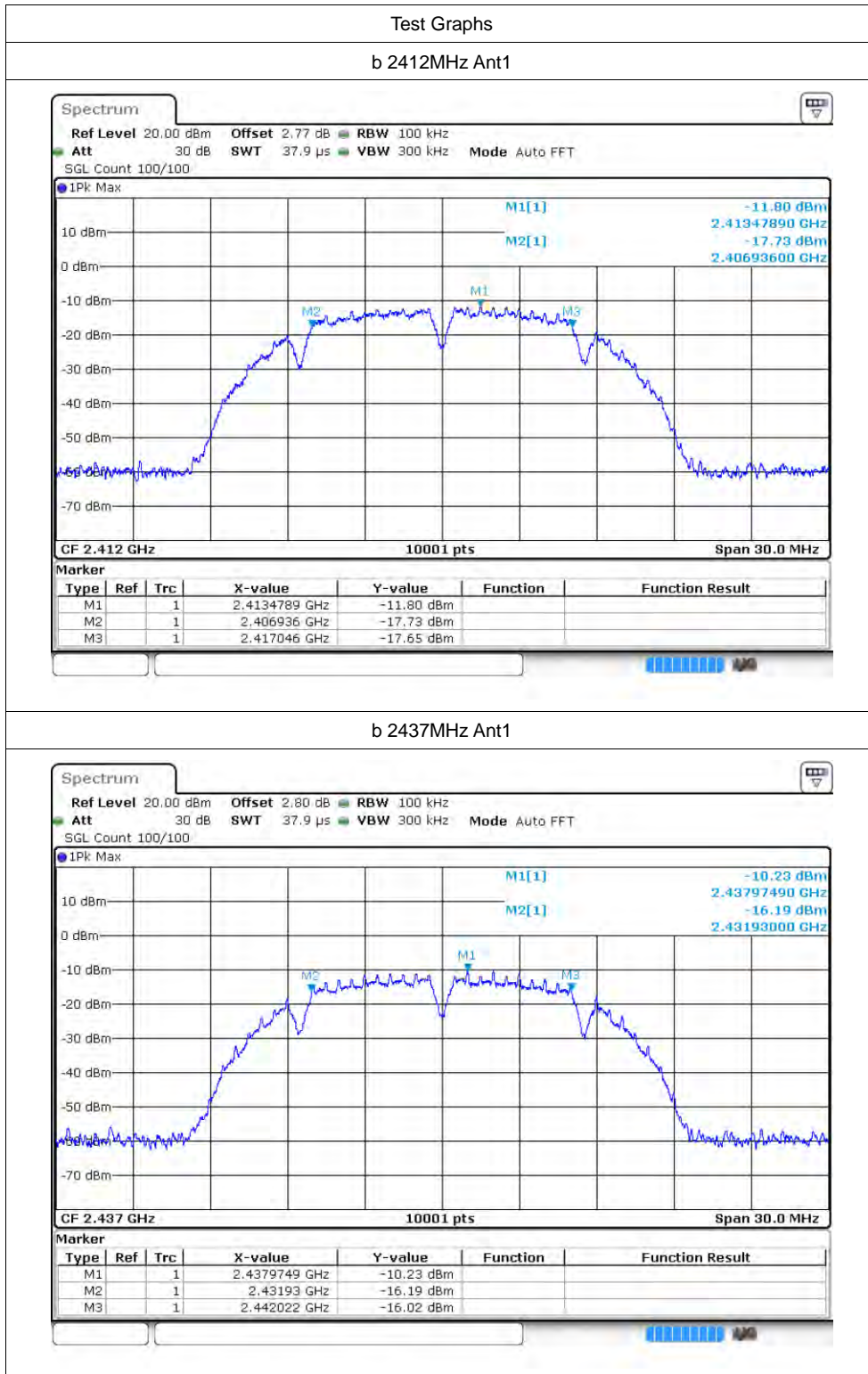


### 3 -6dB Bandwidth

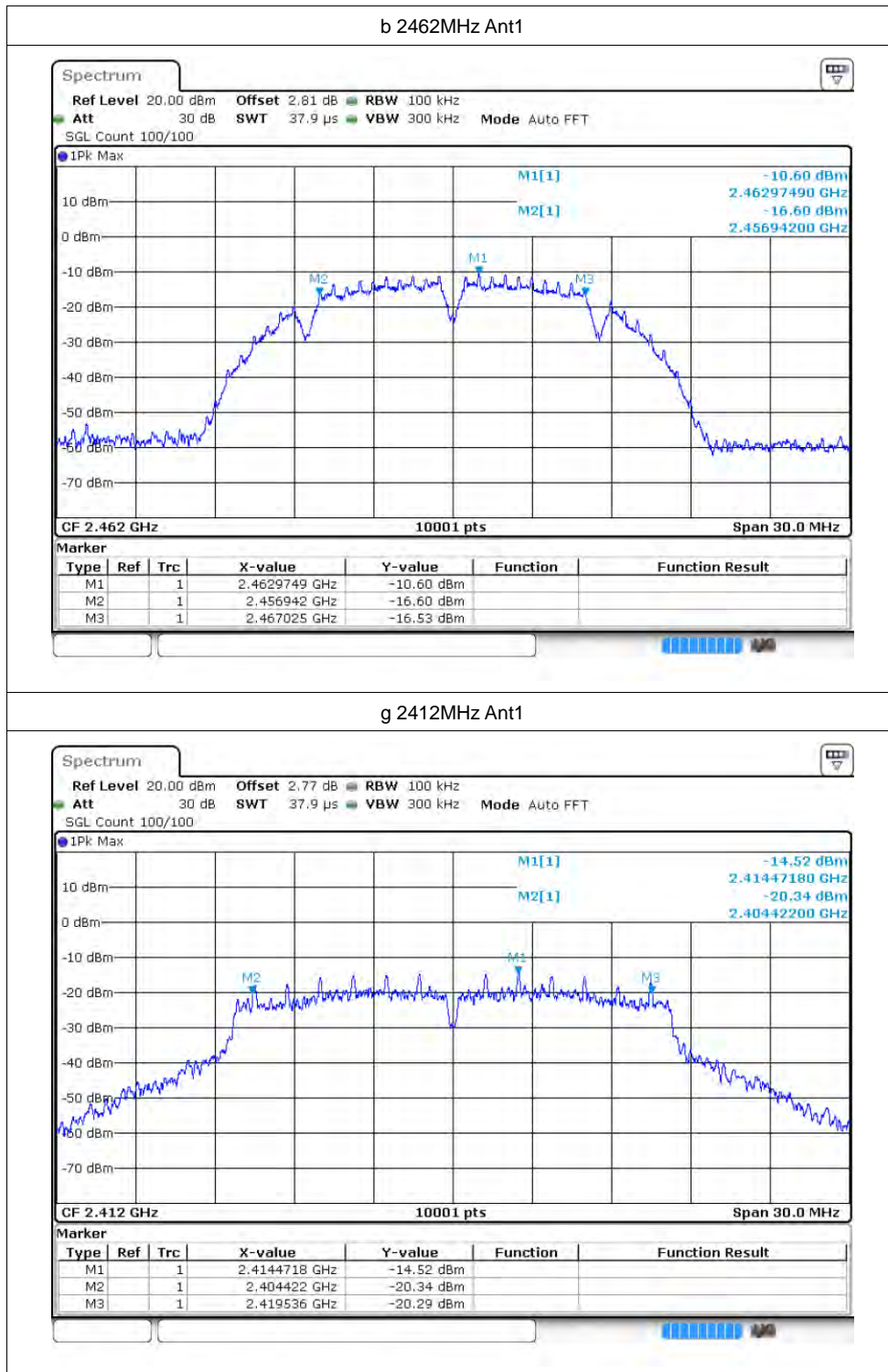
#### 3.1 Test Result

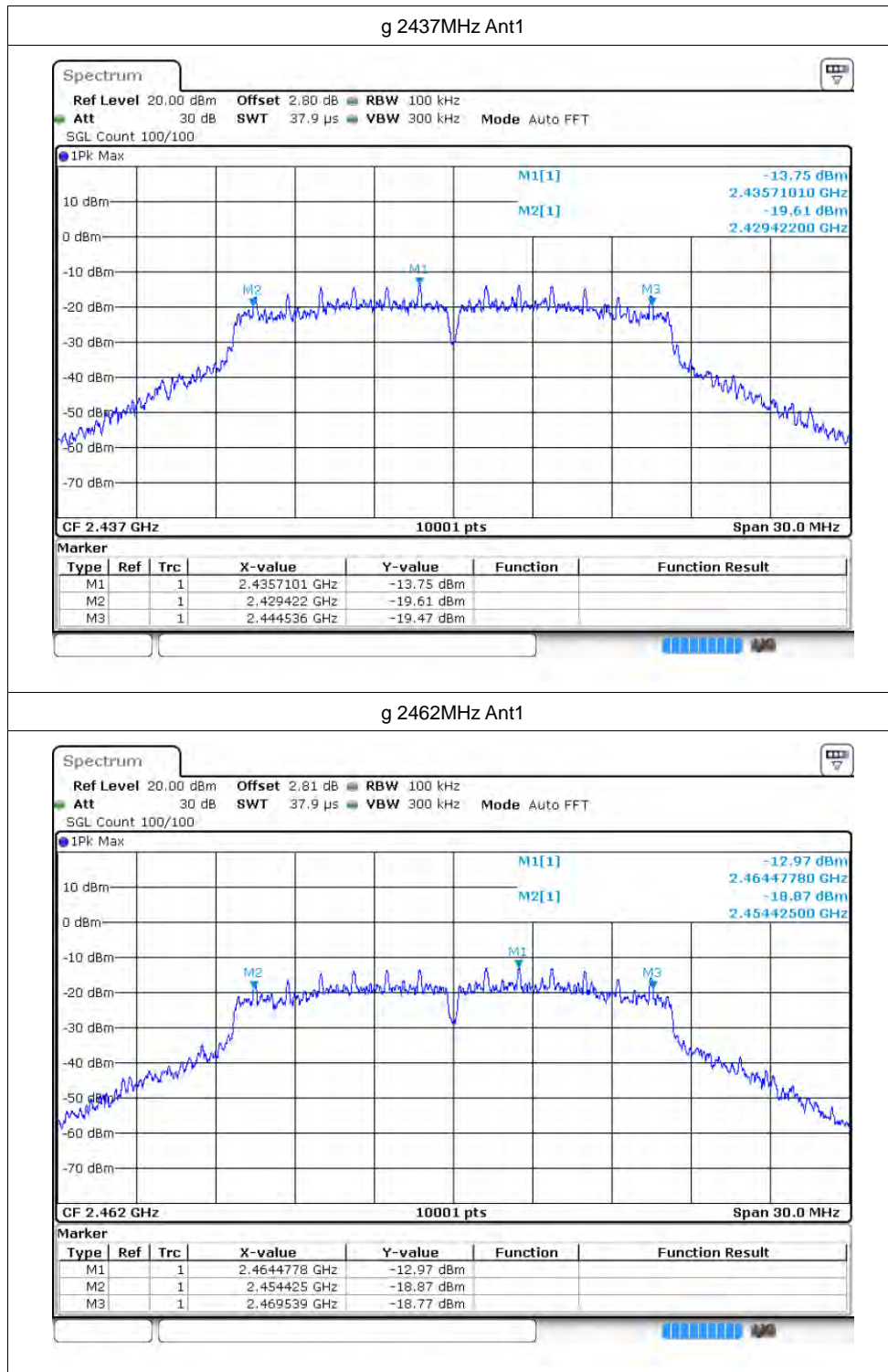
Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
b	2412	Ant1	10.11	0.5	Pass
b	2437	Ant1	10.092	0.5	Pass
b	2462	Ant1	10.083	0.5	Pass
g	2412	Ant1	15.114	0.5	Pass
g	2437	Ant1	15.114	0.5	Pass
g	2462	Ant1	15.114	0.5	Pass
n20	2412	Ant1	15.117	0.5	Pass
n20	2437	Ant1	15.117	0.5	Pass
n20	2462	Ant1	15.12	0.5	Pass
n40	2422	Ant1	33.816	0.5	Pass
n40	2437	Ant1	33.846	0.5	Pass
n40	2452	Ant1	35.028	0.5	Pass

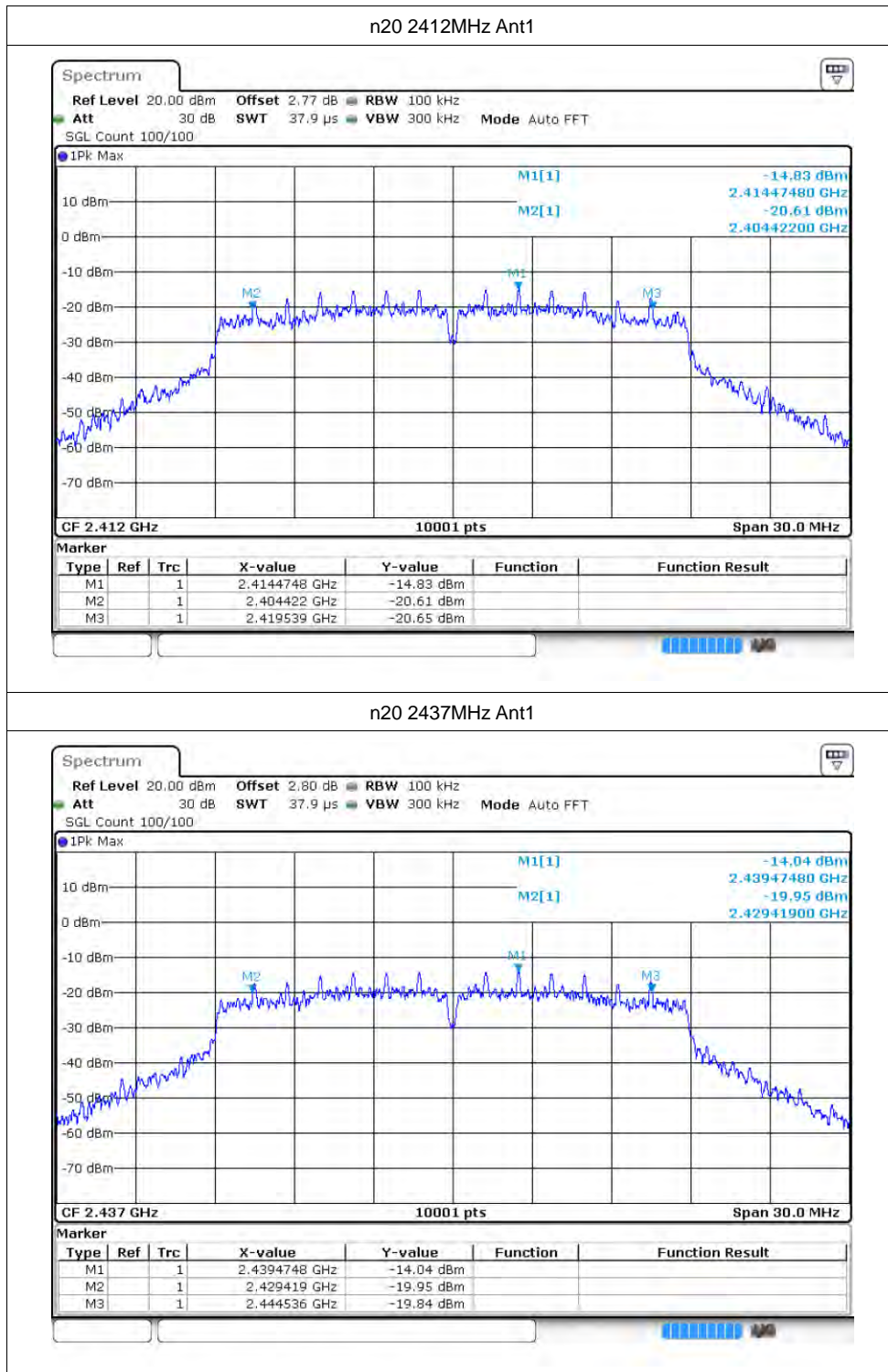
### 3.2 Test Graphs

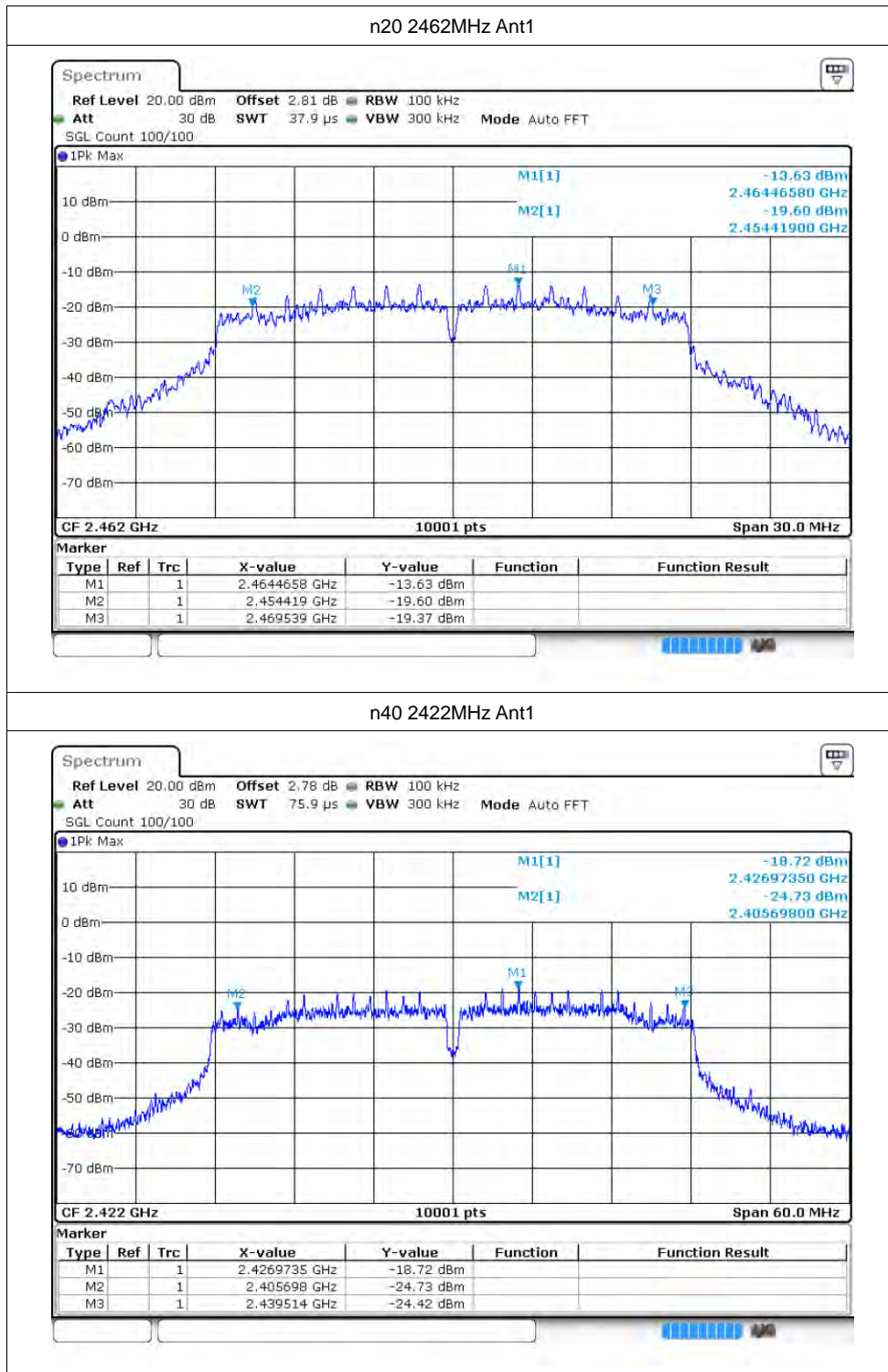


b 2437MHz Ant1

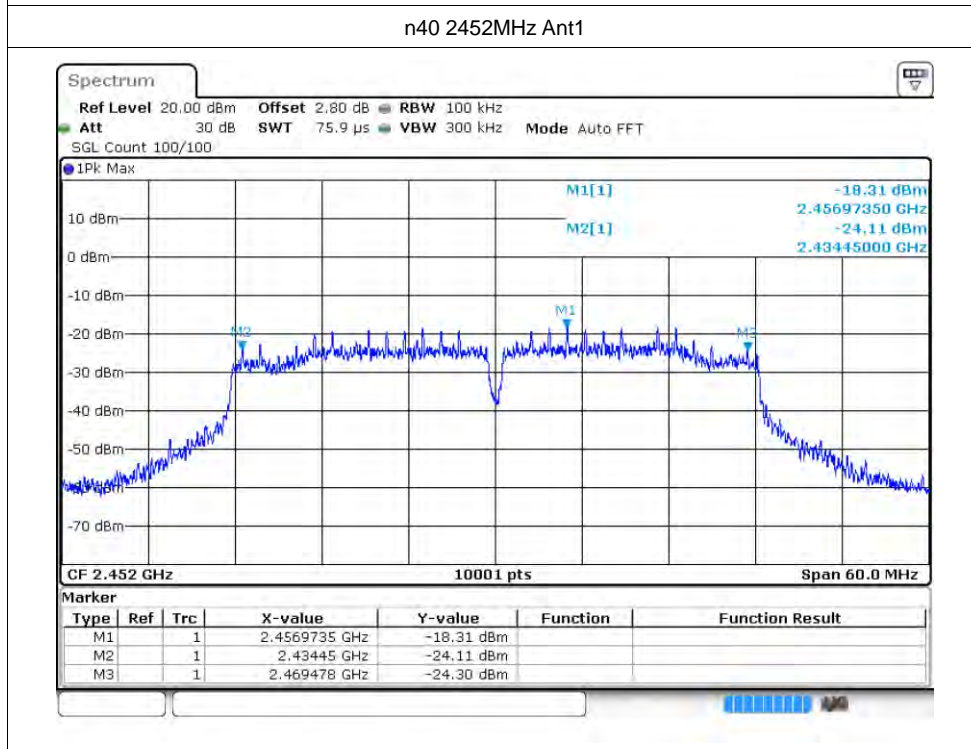
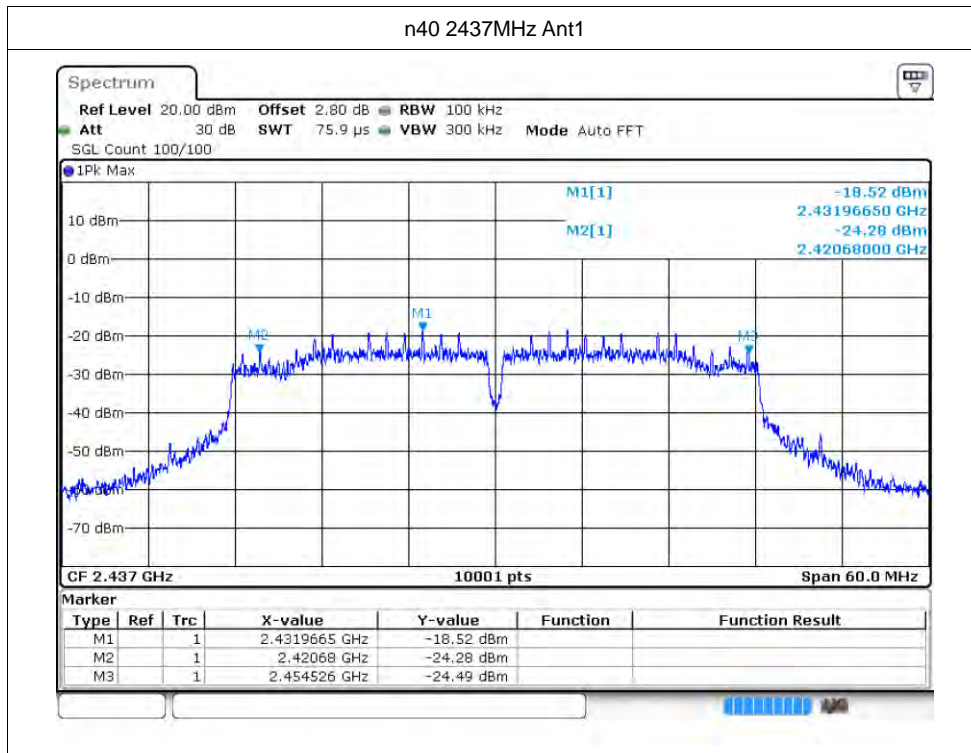










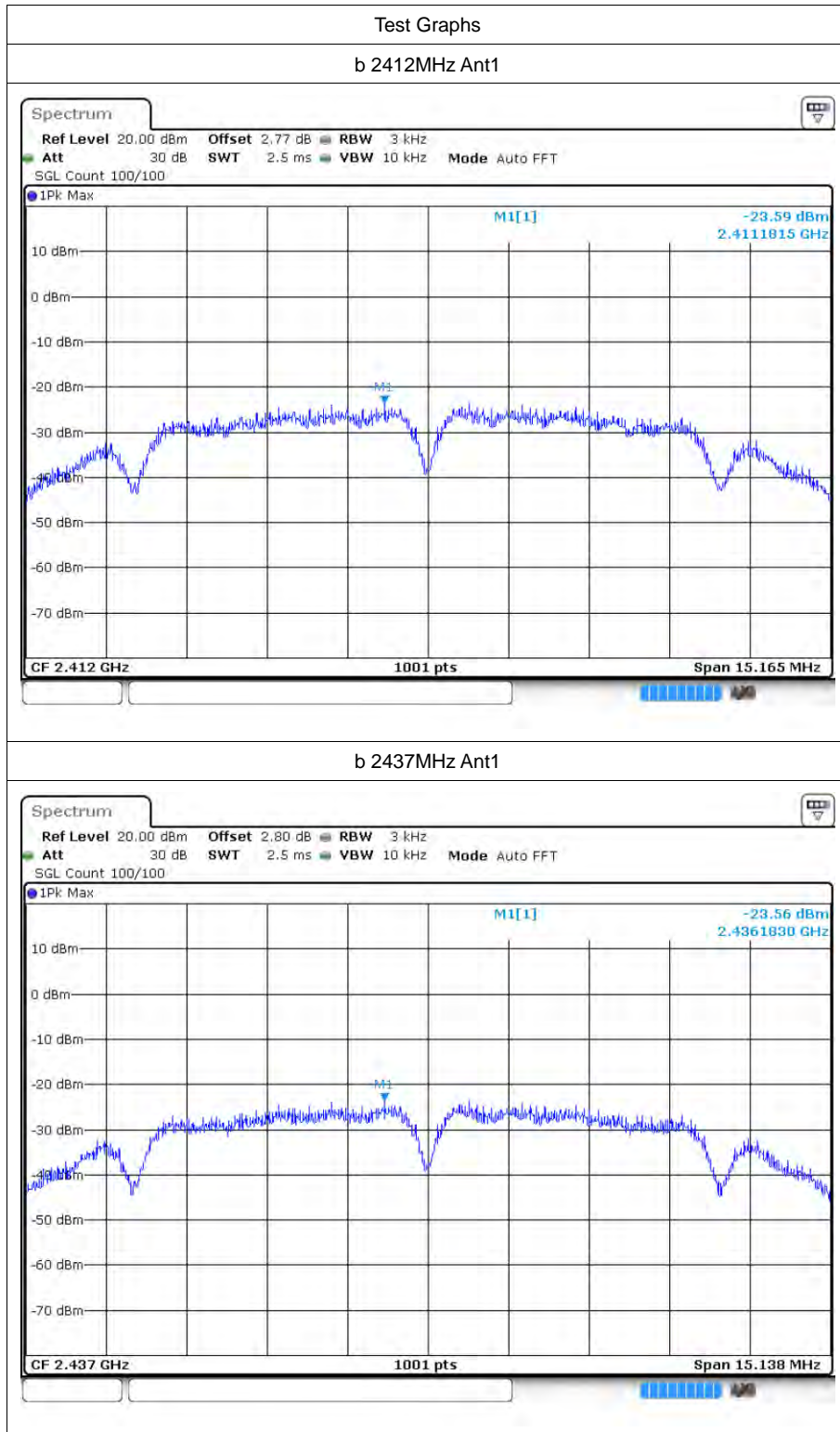


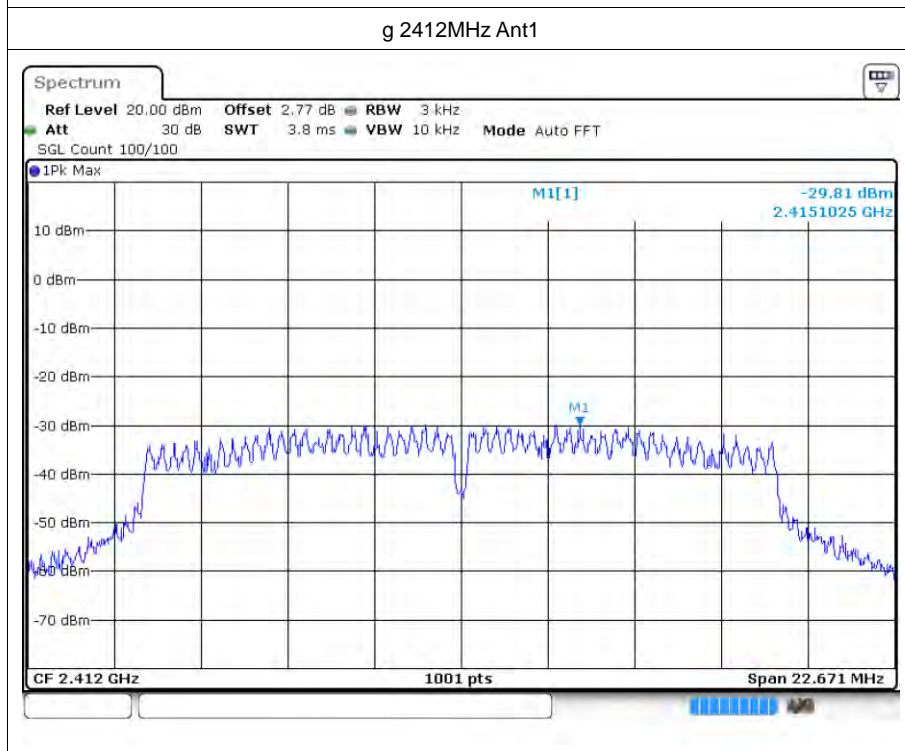
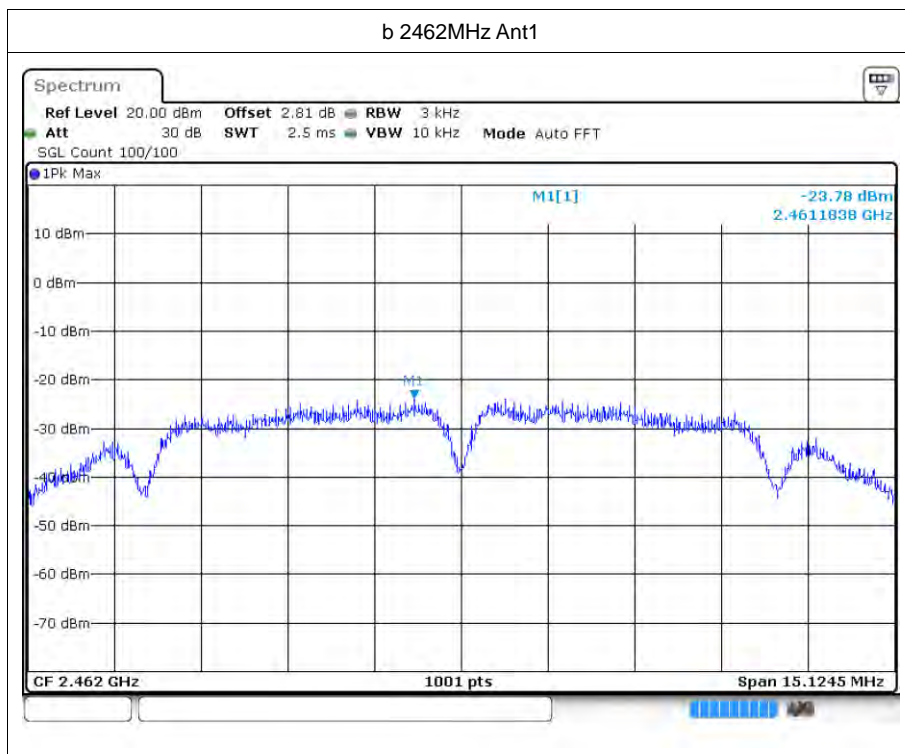
## 4 Maximum Power Spectral Density Level

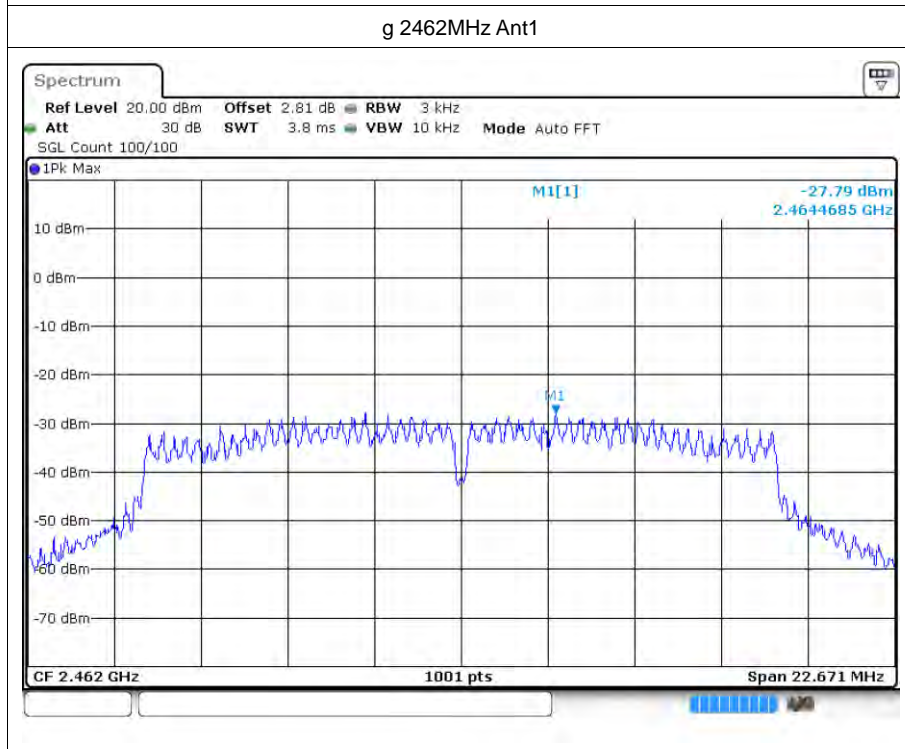
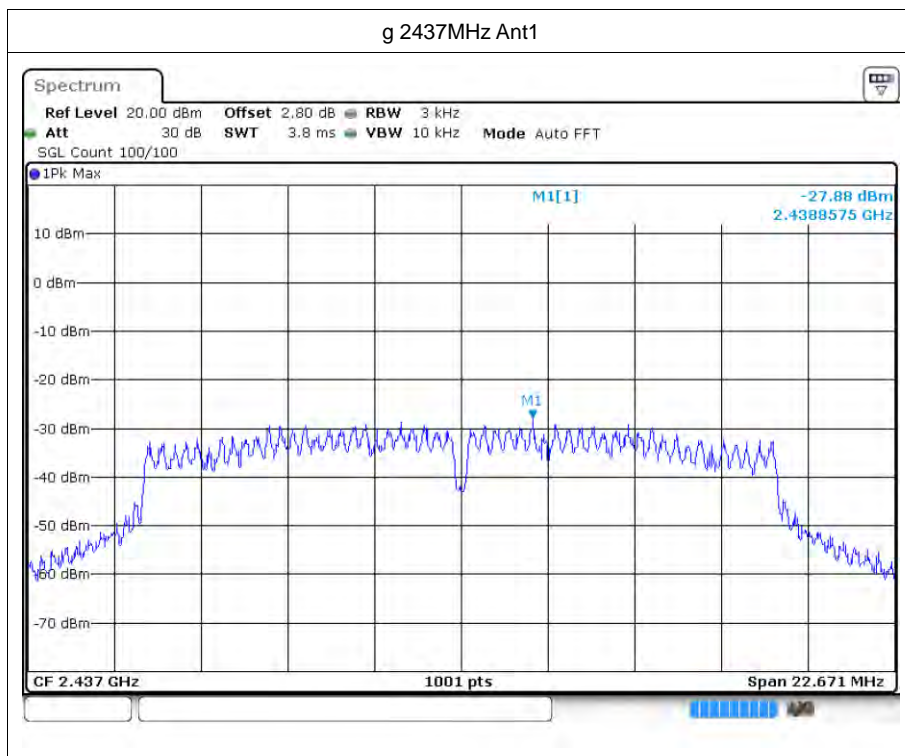
### 4.1 Test Result

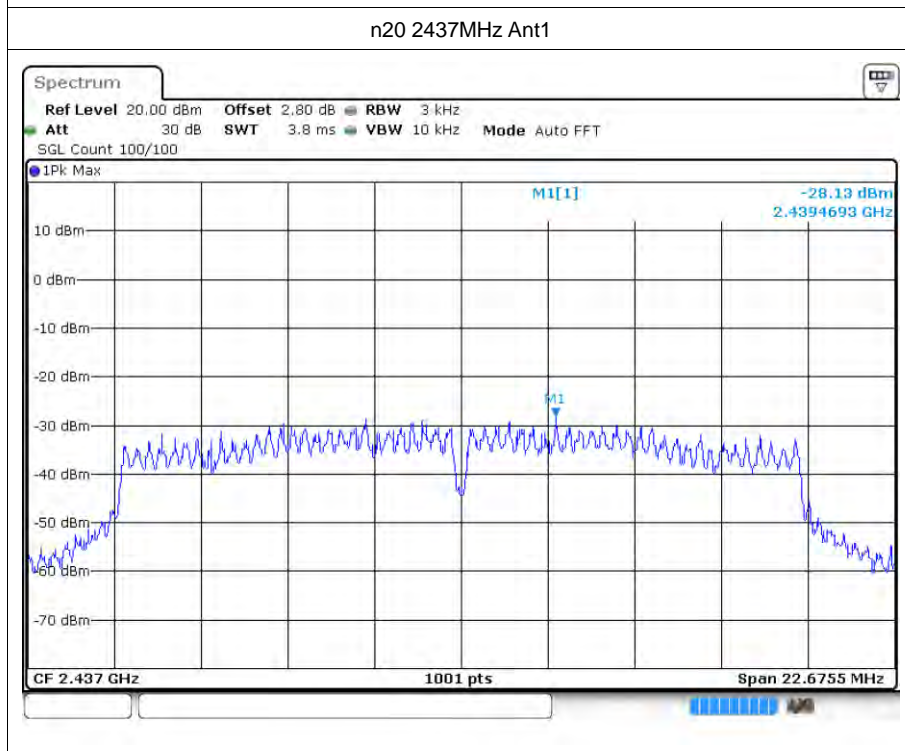
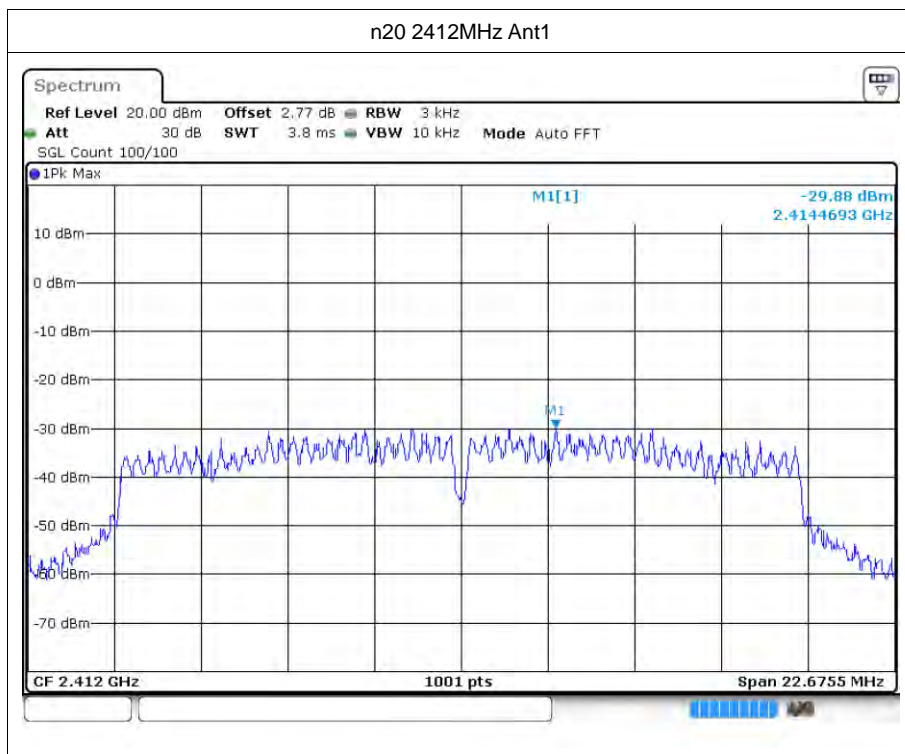
Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3-100kHz)	Limit (dBm/3kHz)	Verdict
b	2412	Ant1	-23.59	≤8	Pass
b	2437	Ant1	-23.56	≤8	Pass
b	2462	Ant1	-23.78	≤8	Pass
g	2412	Ant1	-29.81	≤8	Pass
g	2437	Ant1	-27.88	≤8	Pass
g	2462	Ant1	-27.79	≤8	Pass
n20	2412	Ant1	-29.88	≤8	Pass
n20	2437	Ant1	-28.13	≤8	Pass
n20	2462	Ant1	-27.76	≤8	Pass
n40	2422	Ant1	-33.19	≤8	Pass
n40	2437	Ant1	-32.8	≤8	Pass
n40	2452	Ant1	-32.62	≤8	Pass

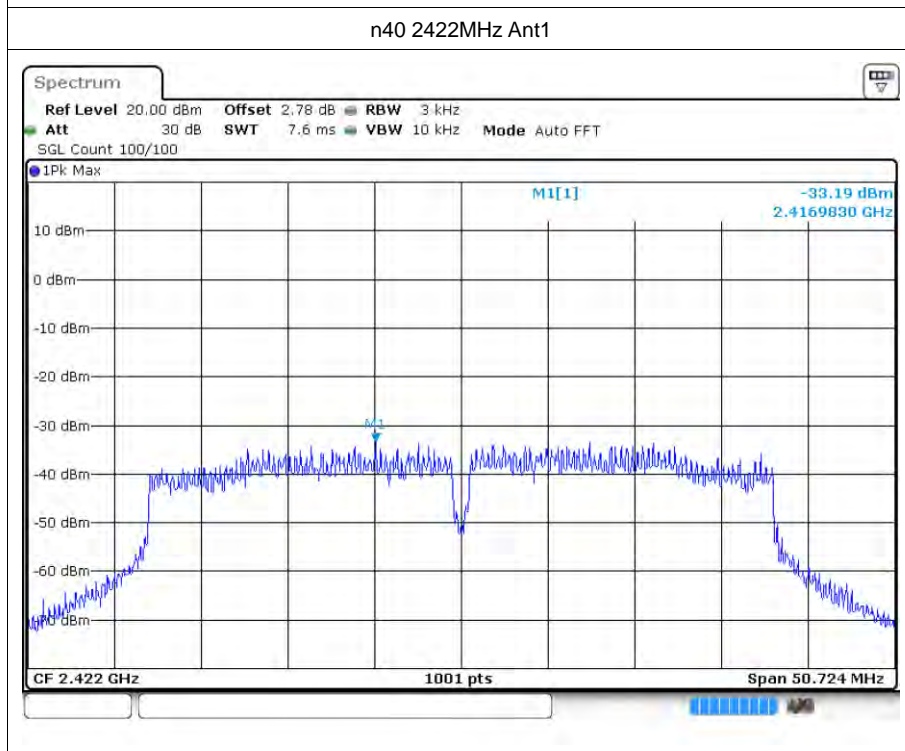
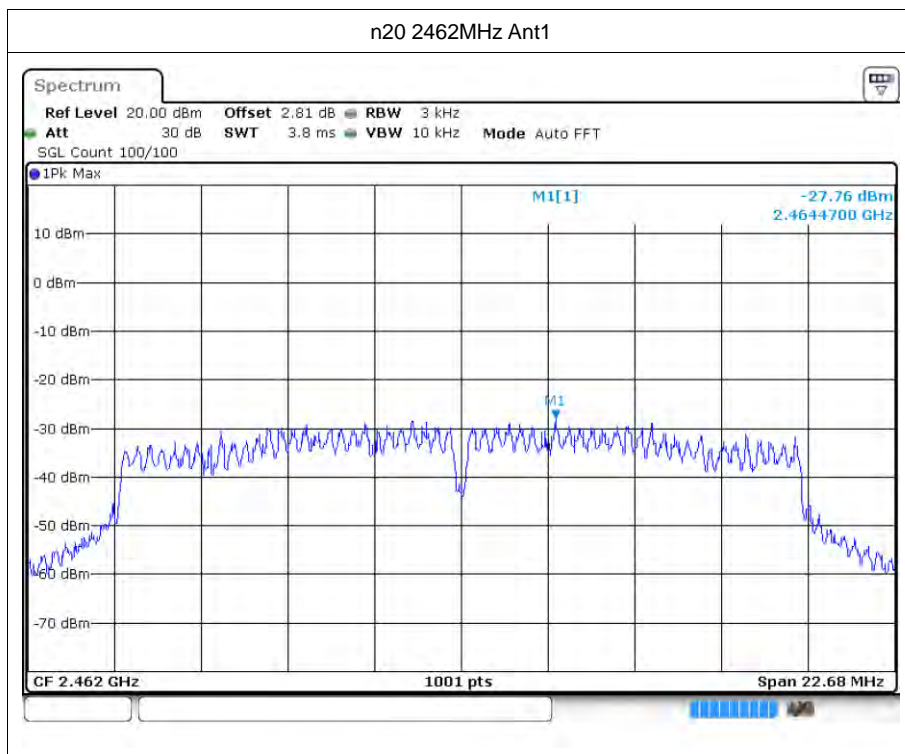
## 4.2 Test Graphs

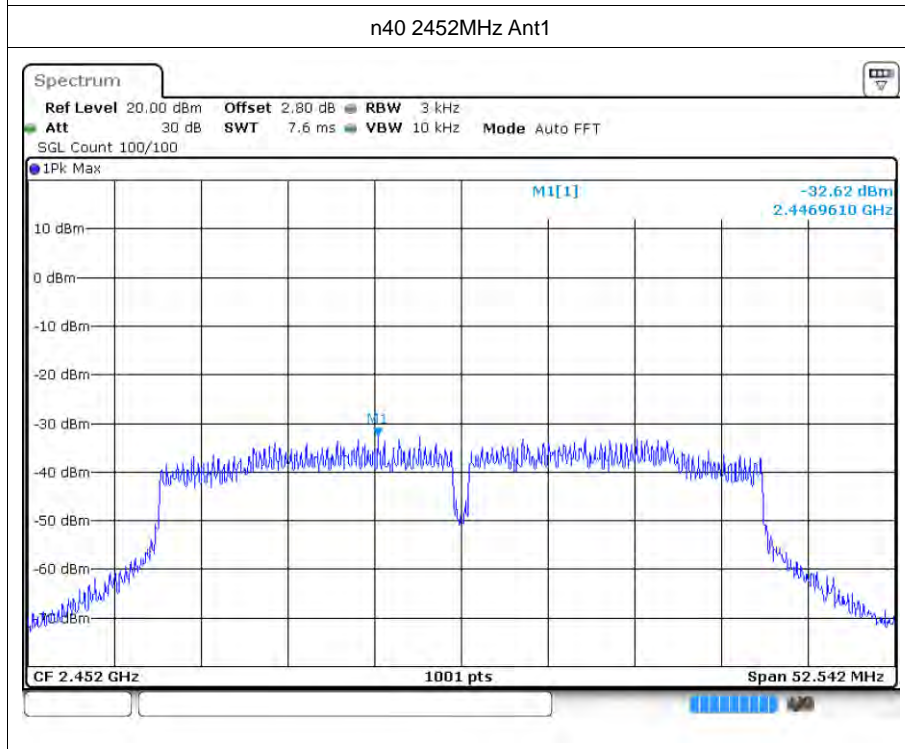
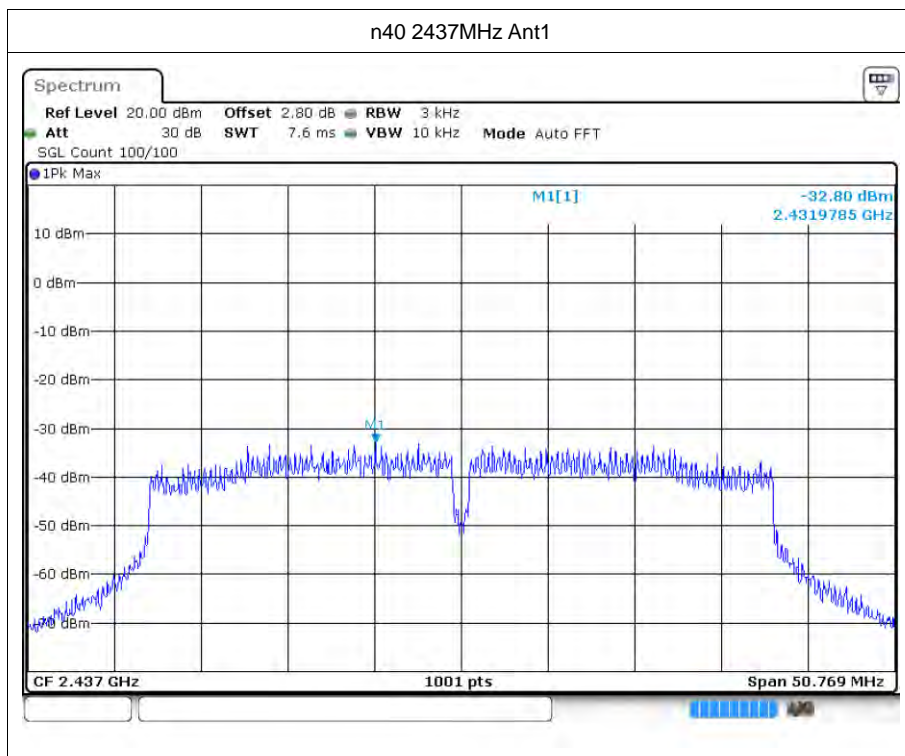














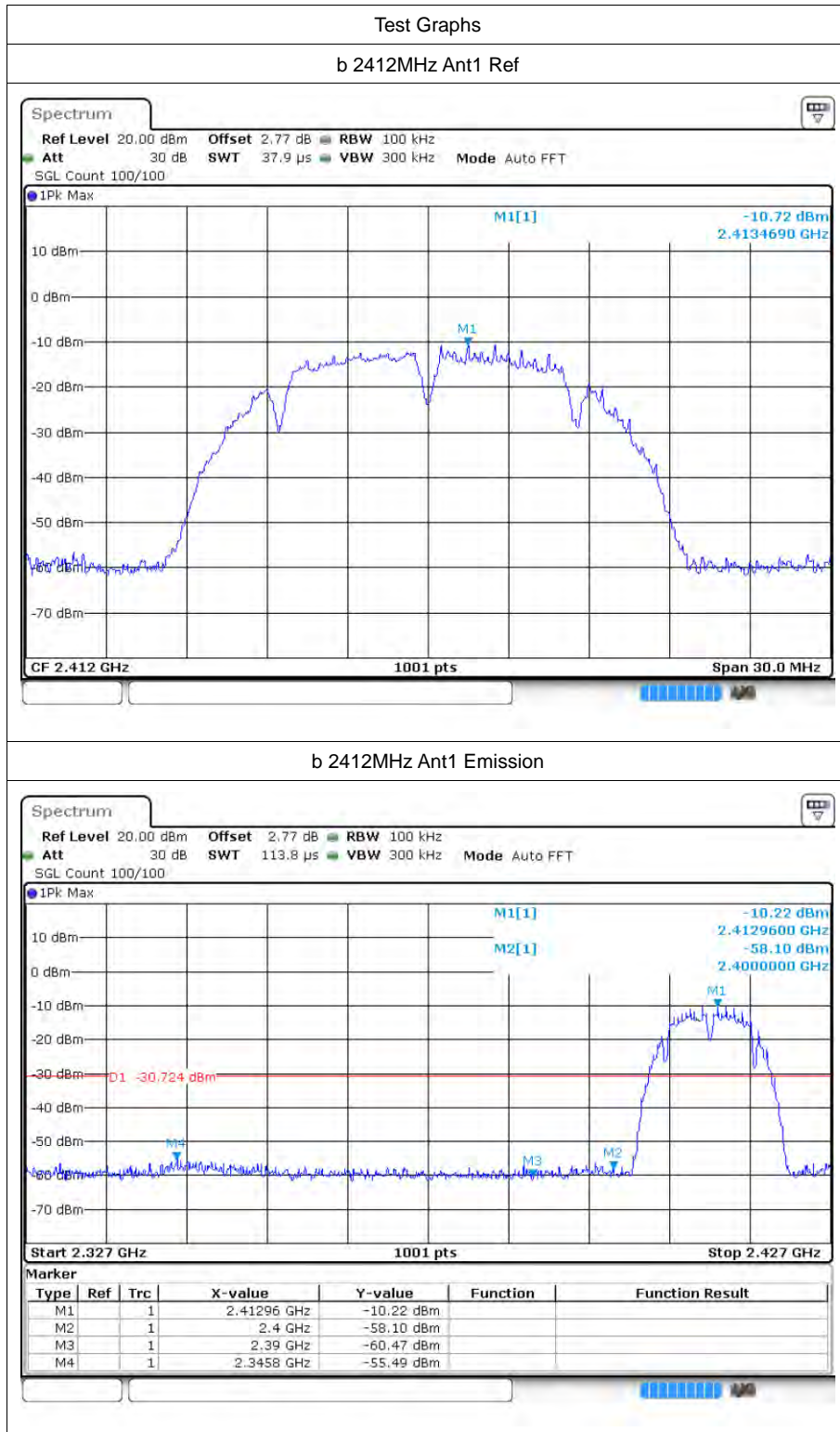


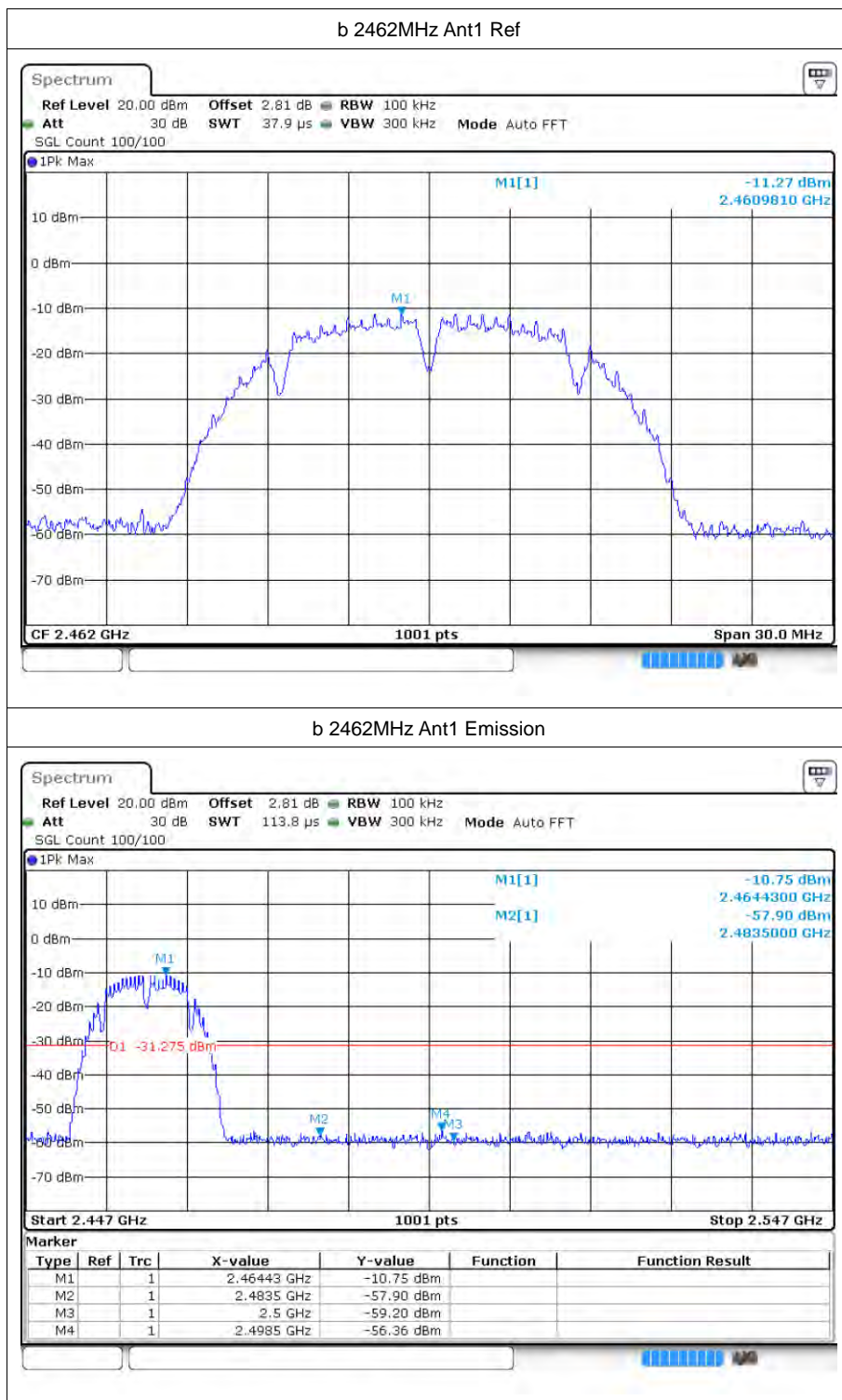
## 5 Band Edge

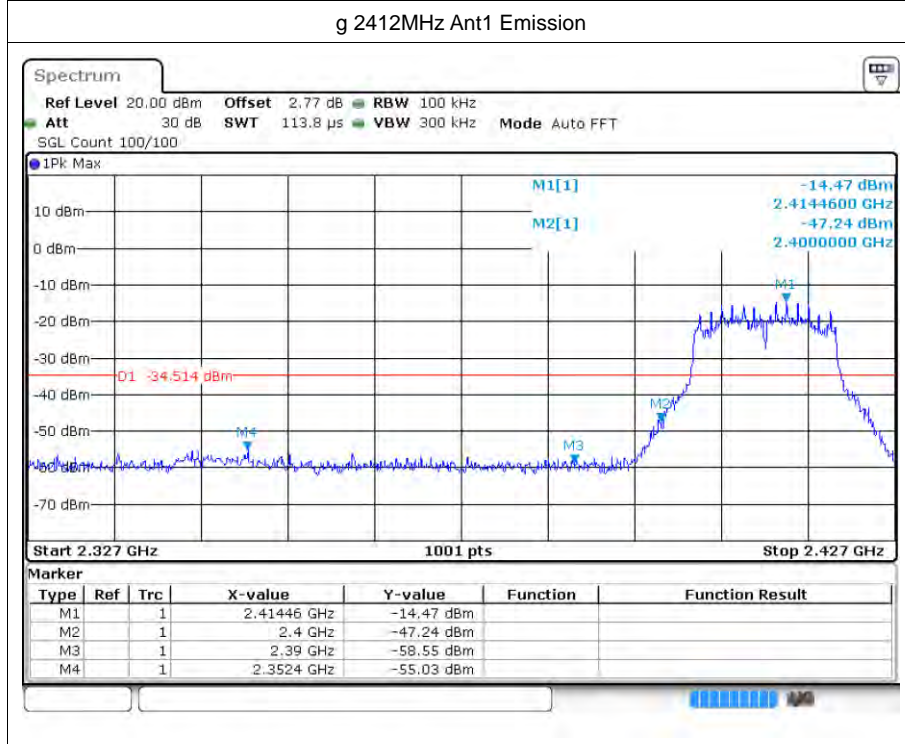
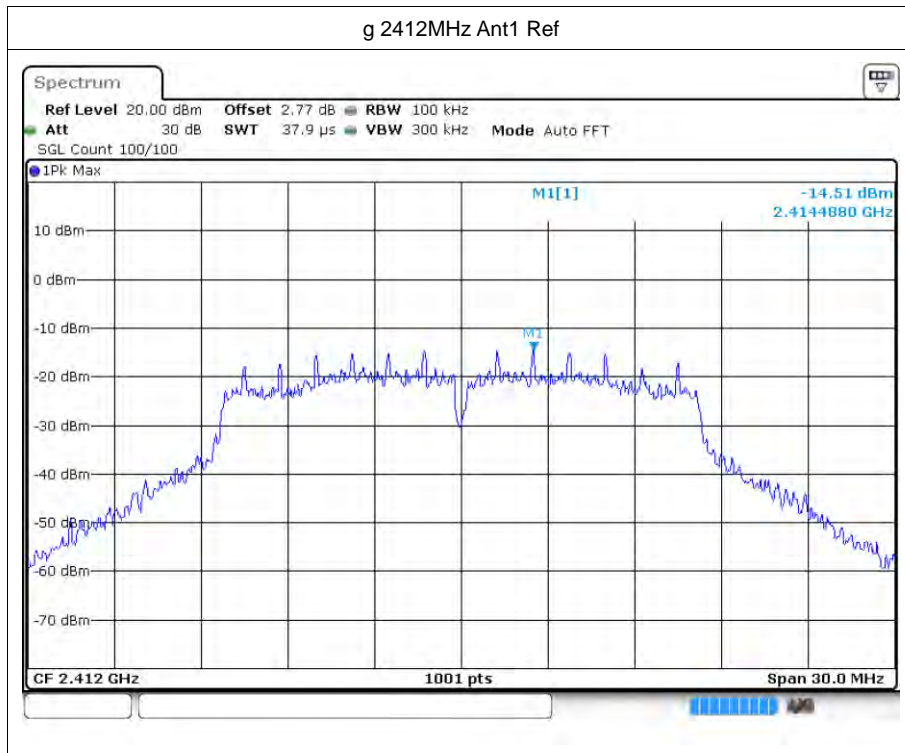
### 5.1 Test Result

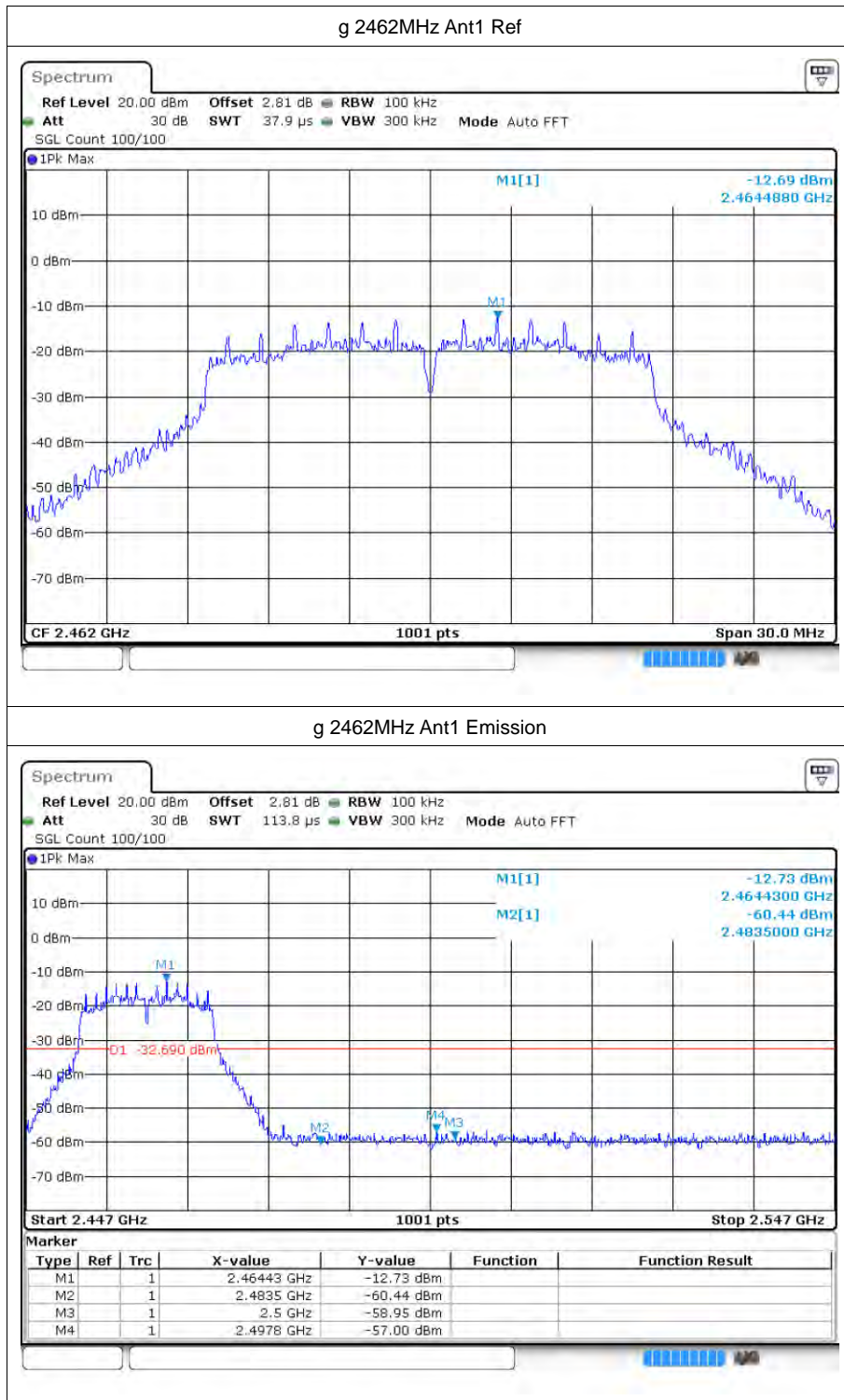
Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
b	2412	Ant1	-44.76	-20	-44.76
b	2462	Ant1	-45.09	-20	Pass
g	2412	Ant1	-40.51	-20	Pass
g	2462	Ant1	-44.31	-20	Pass
n20	2412	Ant1	-40.46	-20	Pass
n20	2462	Ant1	-42.84	-20	Pass
n40	2422	Ant1	-38.12	-20	Pass
n40	2452	Ant1	-37.23	-20	Pass

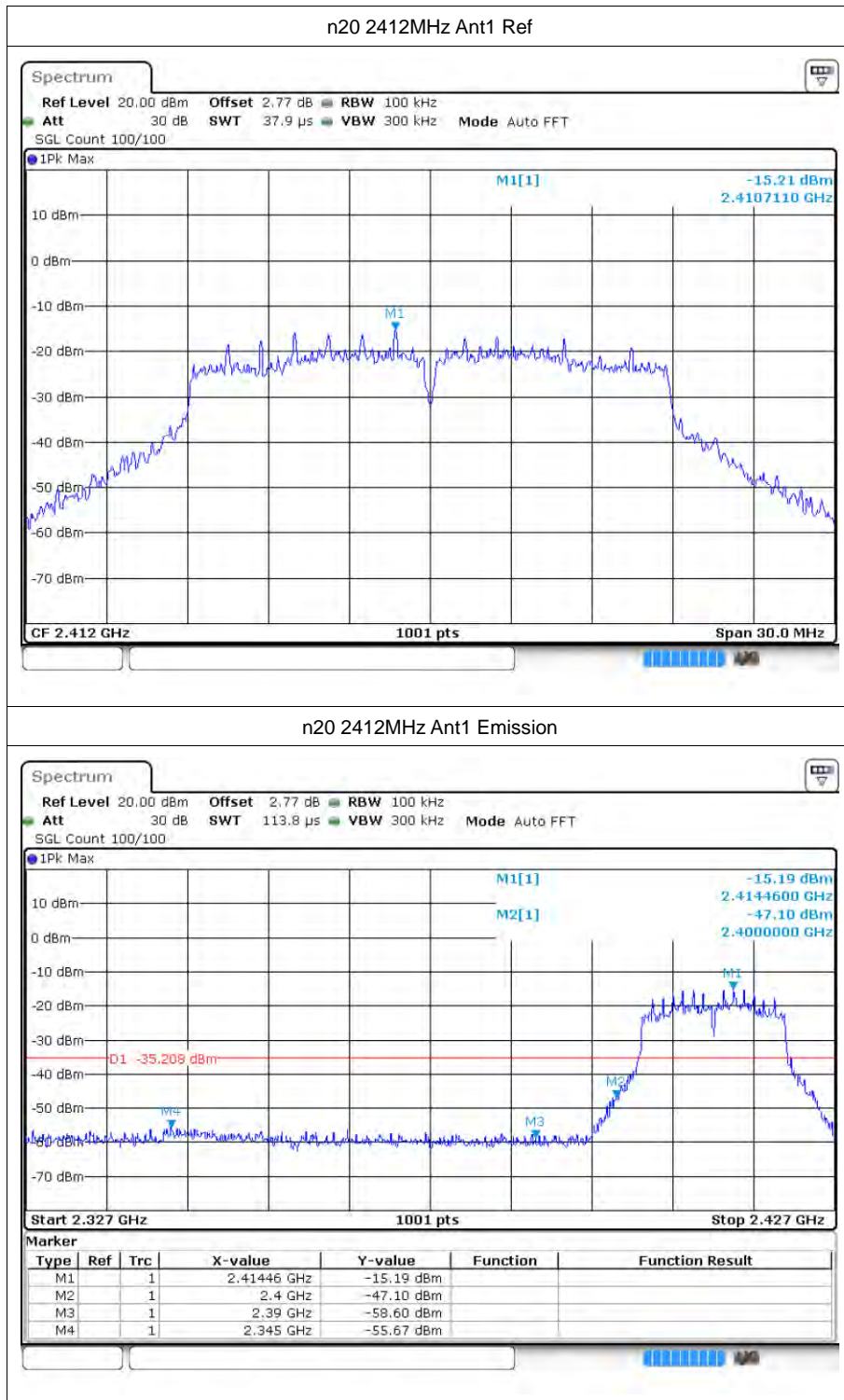
## 5.2 Test Graphs

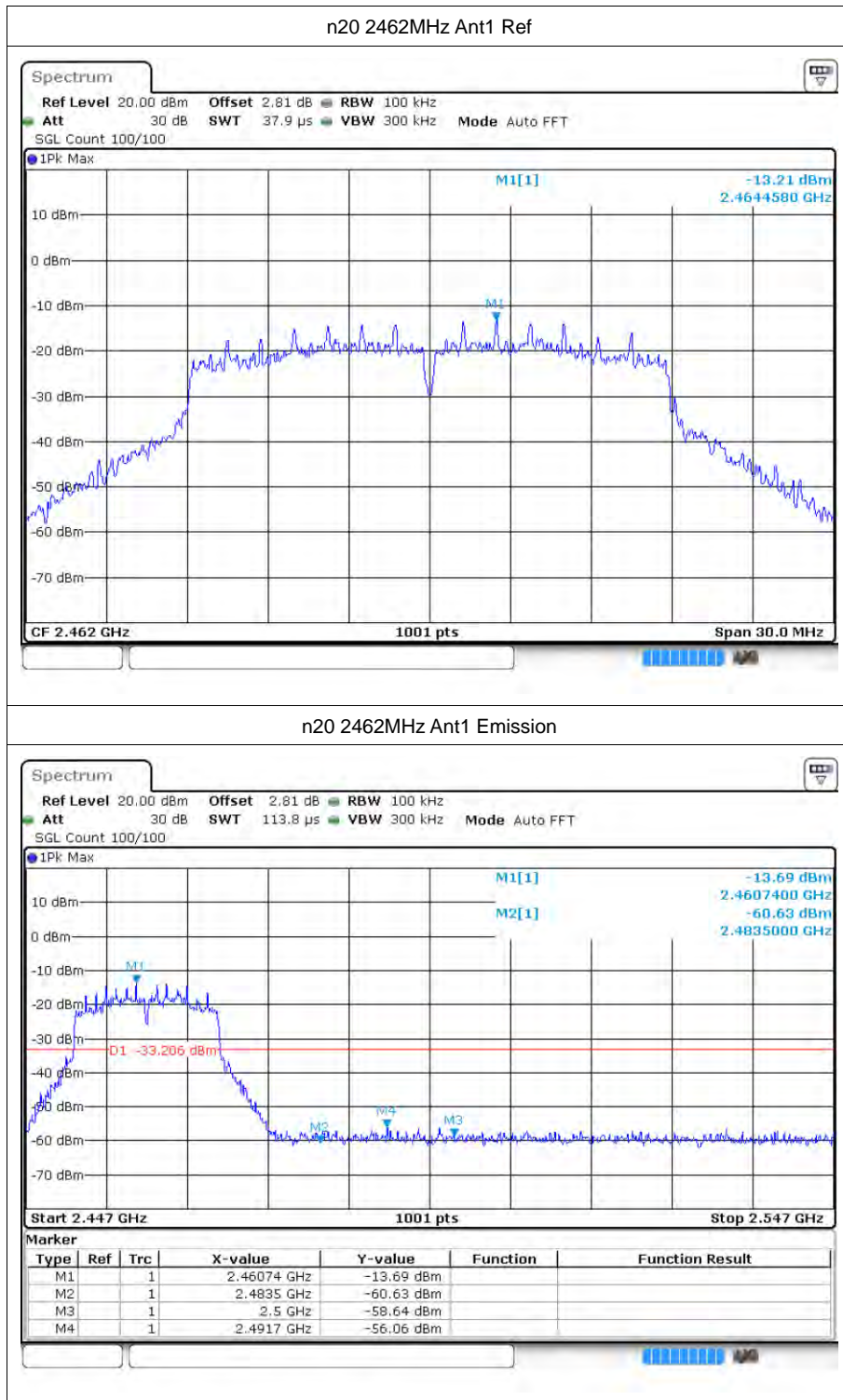


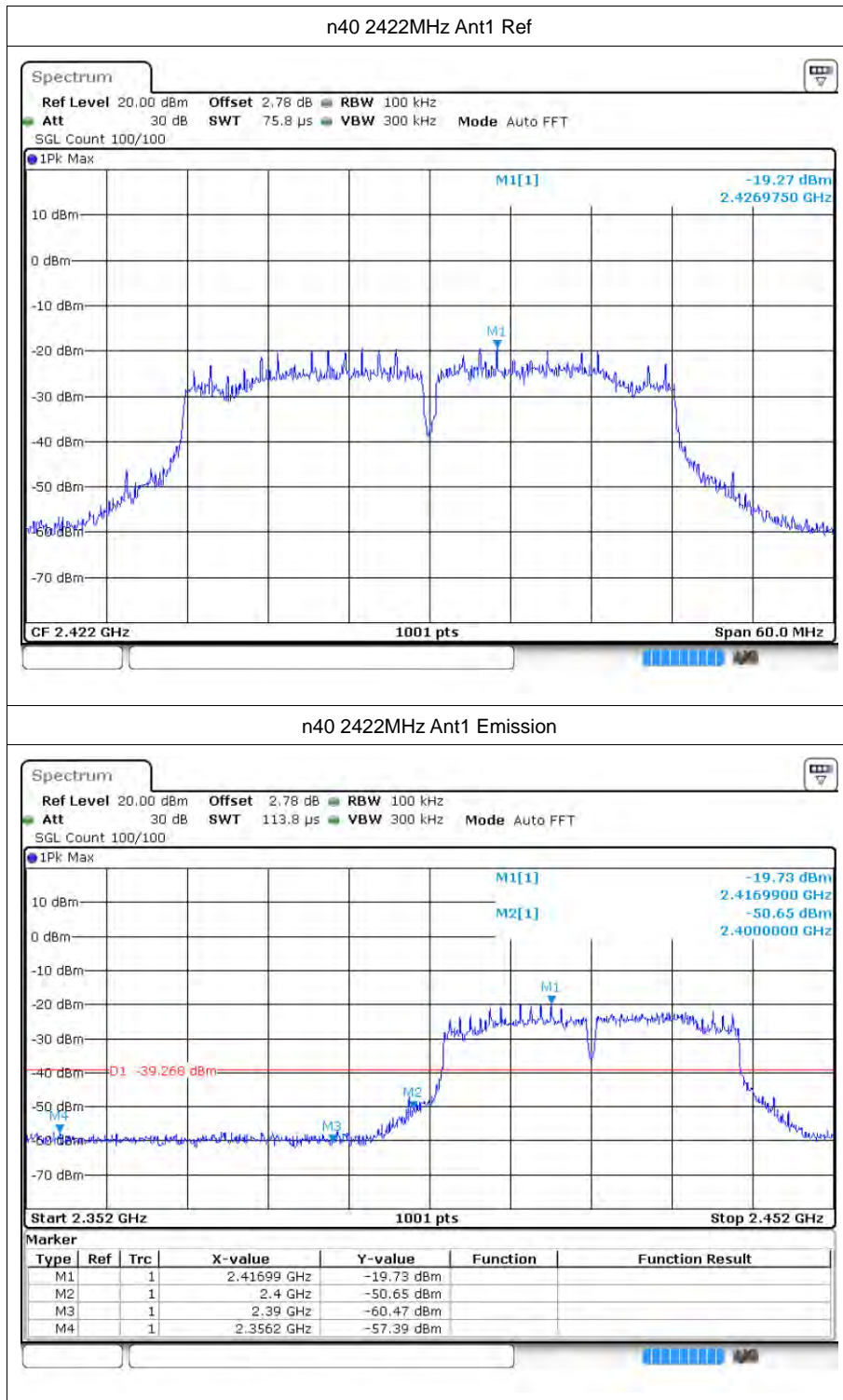




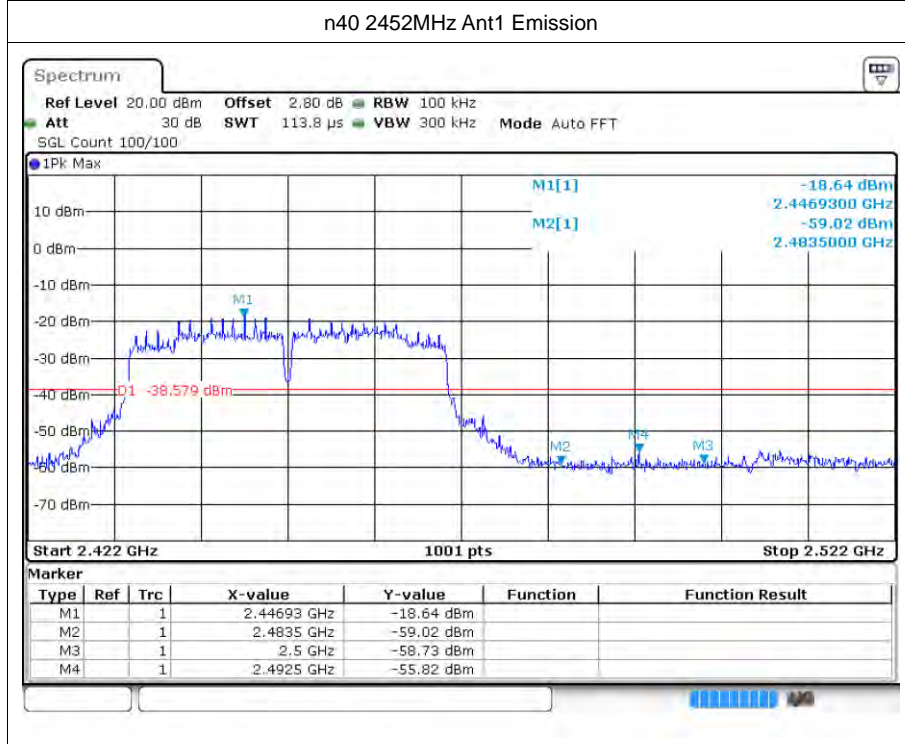
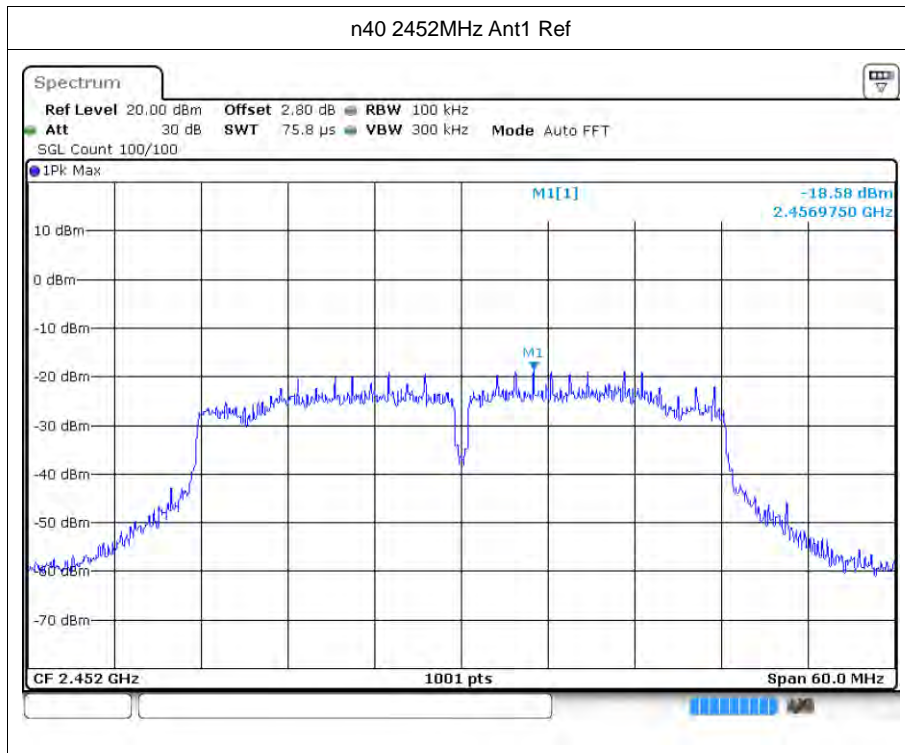












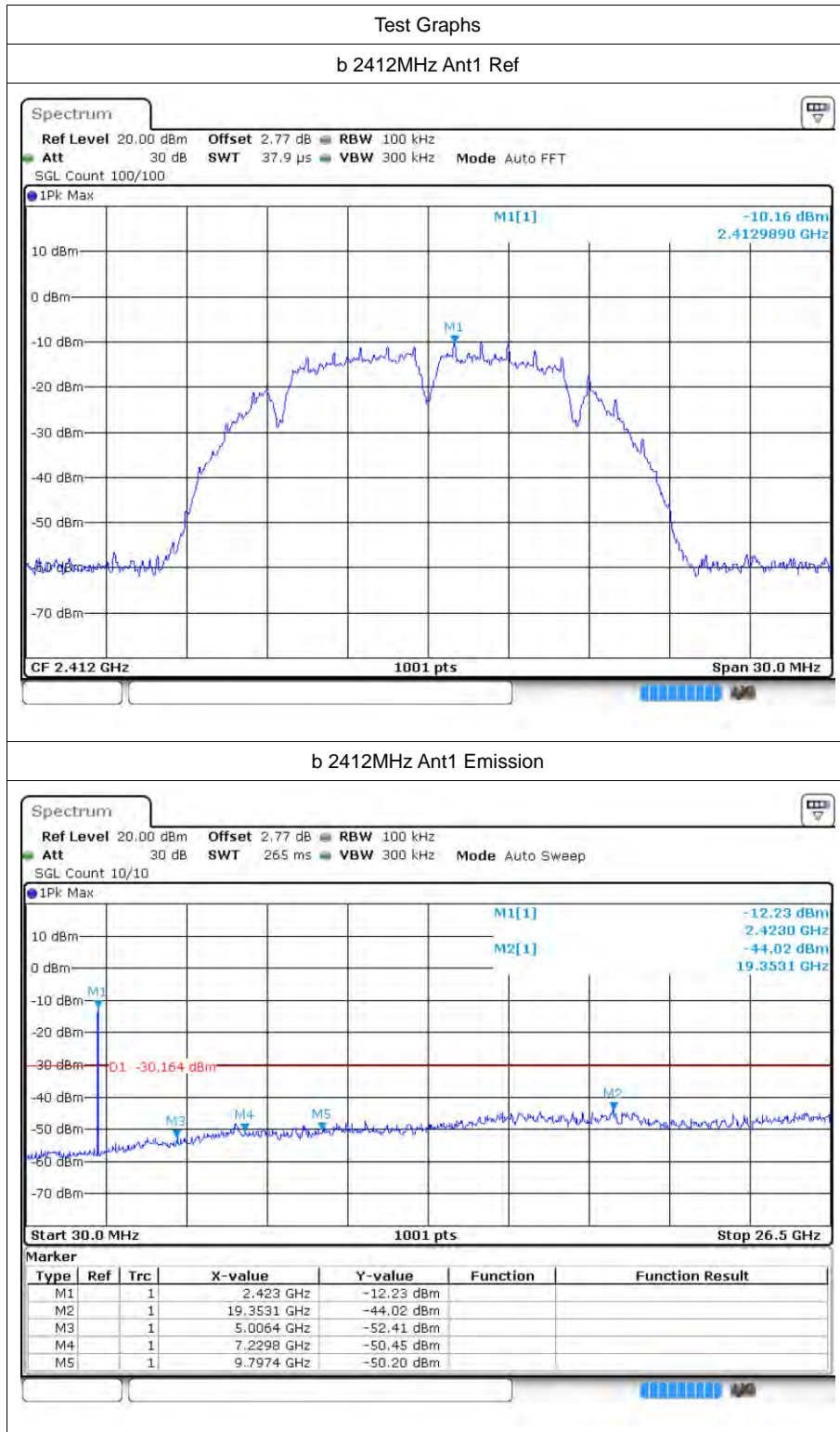


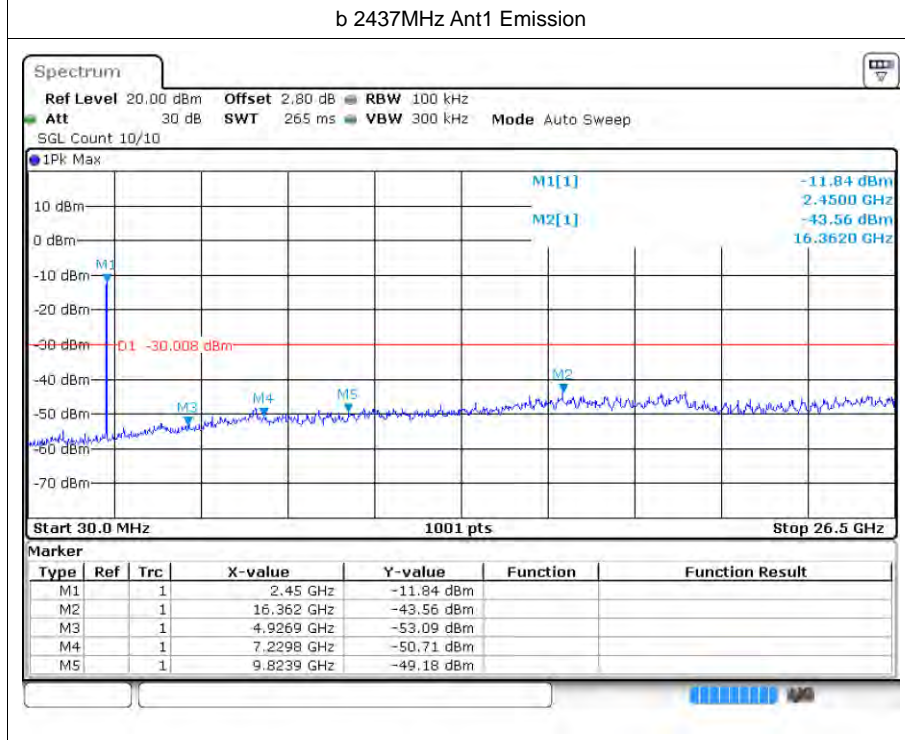
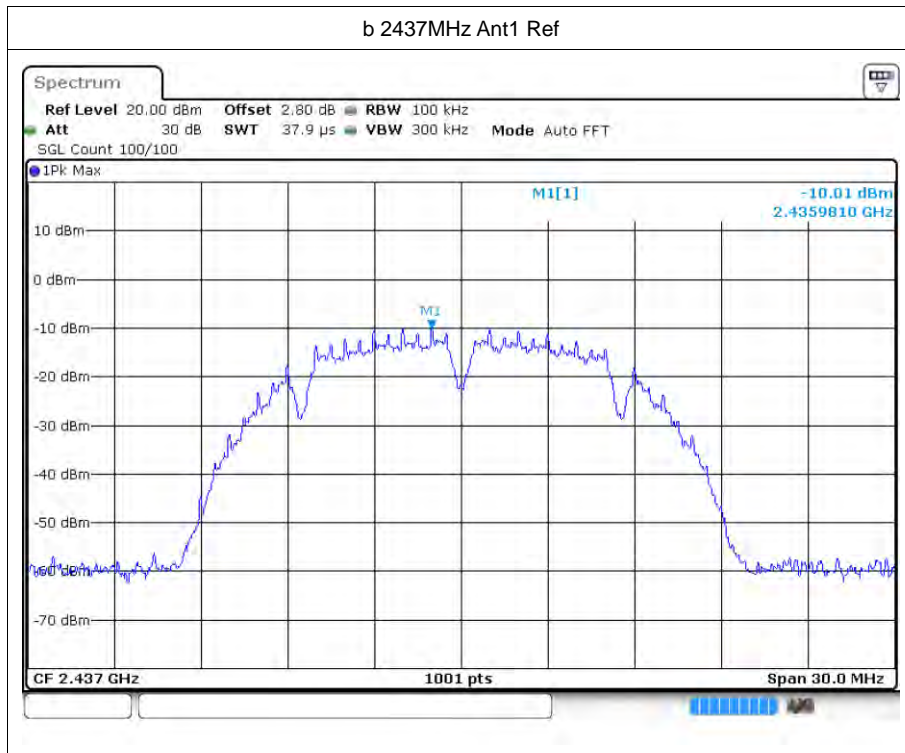
## 6 Conducted RF Spurious Emission

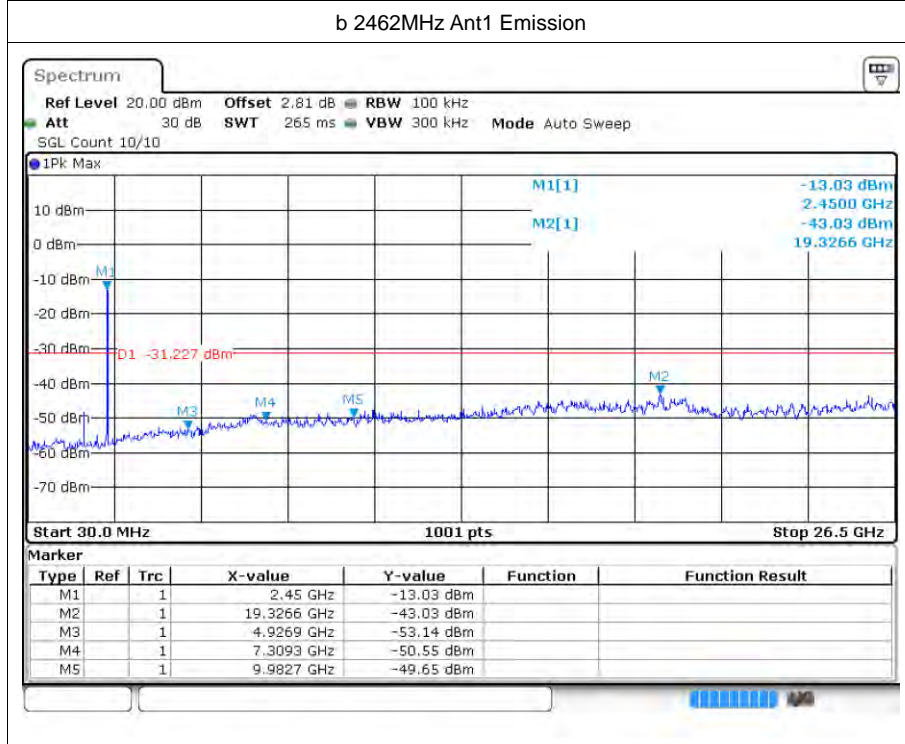
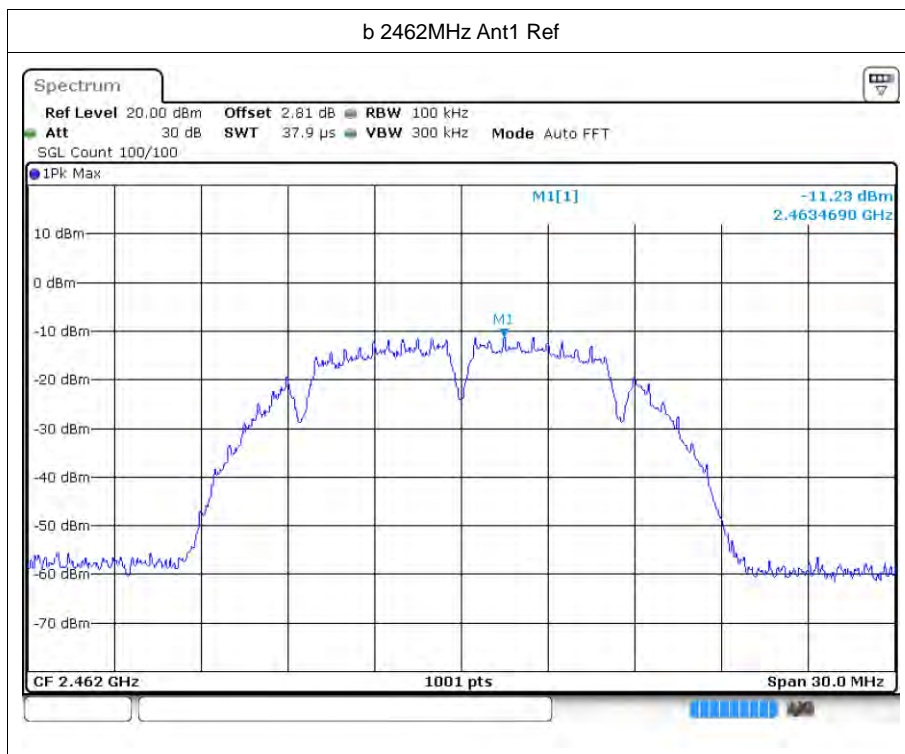
### 6.1 Test Result

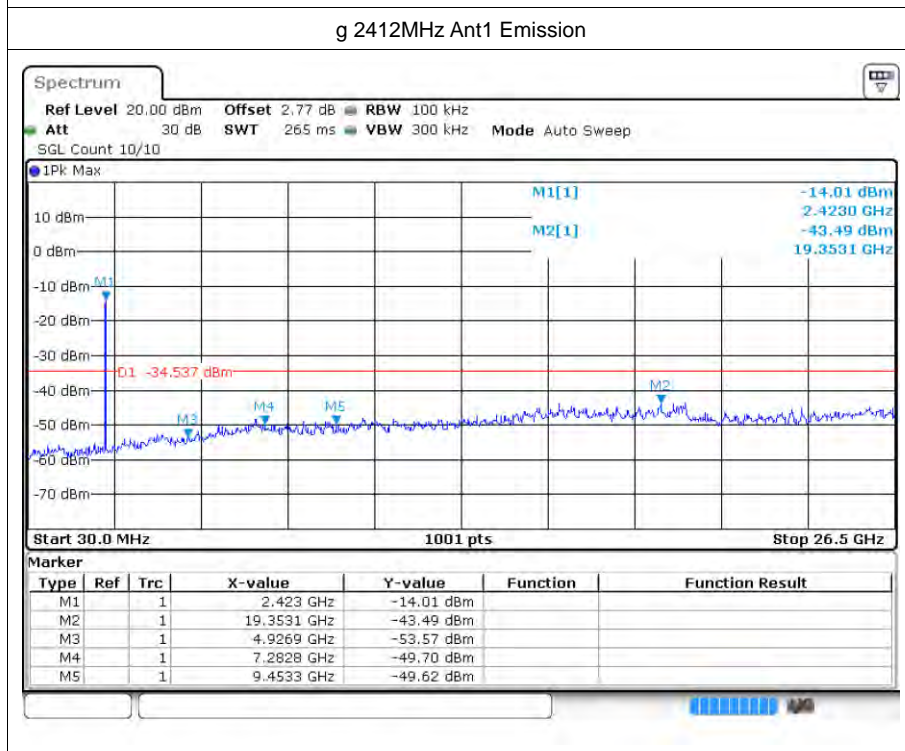
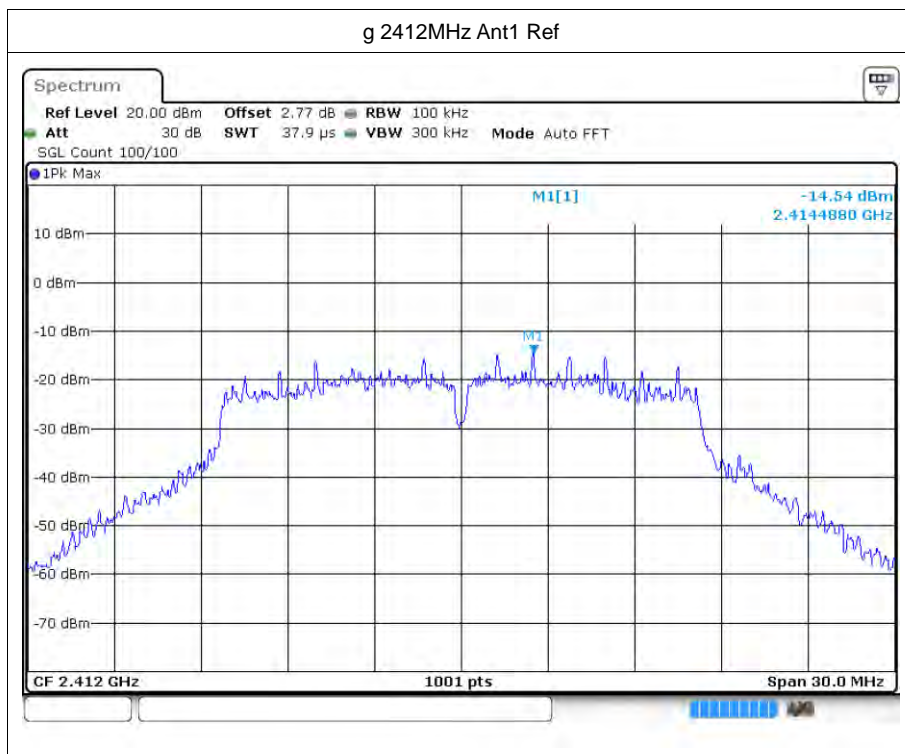
Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
b	2412	Ant1	-33.86	-20	Pass
b	2437	Ant1	-33.55	-20	Pass
b	2462	Ant1	-31.8	-20	Pass
g	2412	Ant1	-28.95	-20	Pass
g	2437	Ant1	-28.95	-20	Pass
g	2462	Ant1	-30.19	-20	Pass
n20	2412	Ant1	-27.87	-20	Pass
n20	2437	Ant1	-30	-20	Pass
n20	2462	Ant1	-28.98	-20	Pass
n40	2422	Ant1	-24.72	-20	Pass
n40	2437	Ant1	-24.74	-20	Pass
n40	2452	Ant1	-25.11	-20	Pass

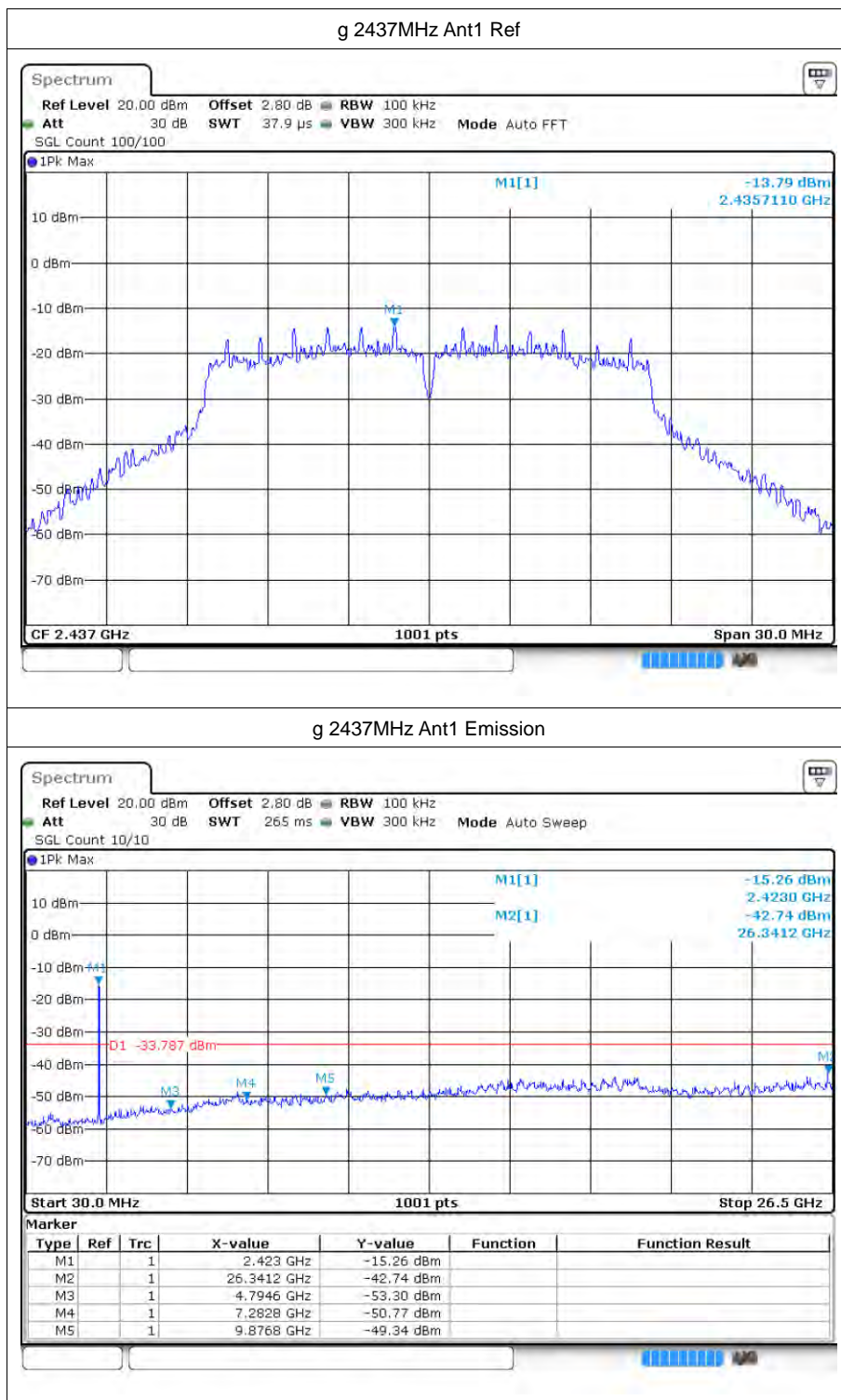
## 6.2 Test Graphs

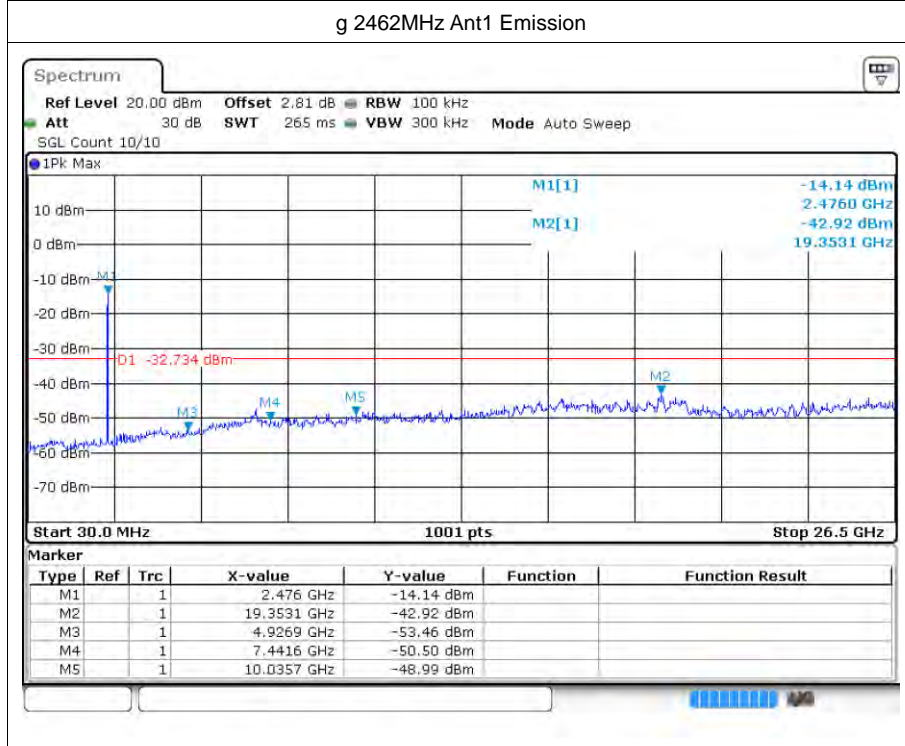
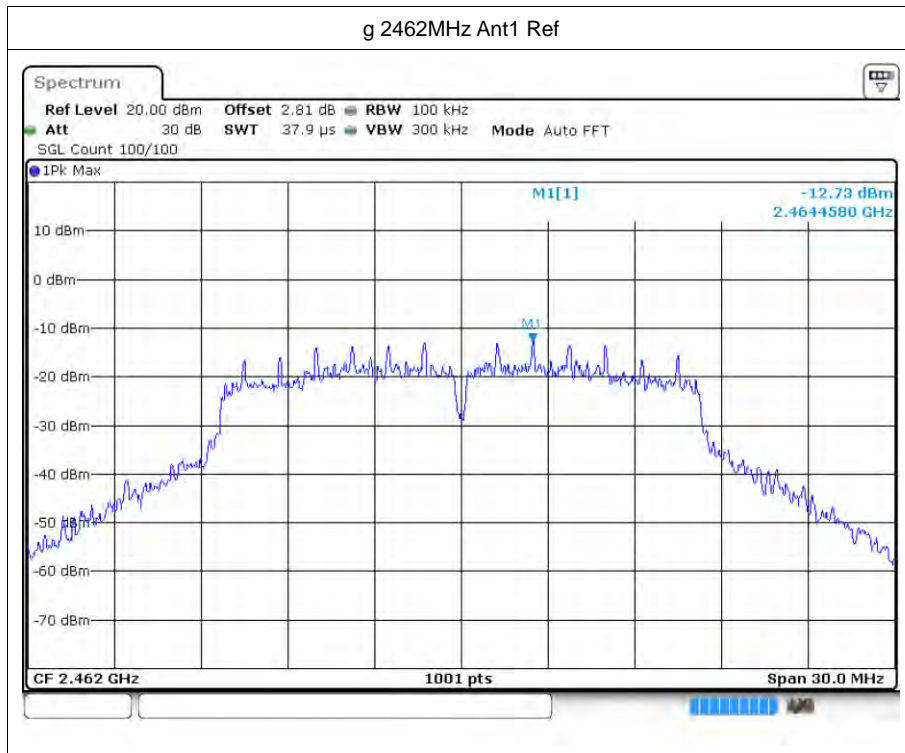




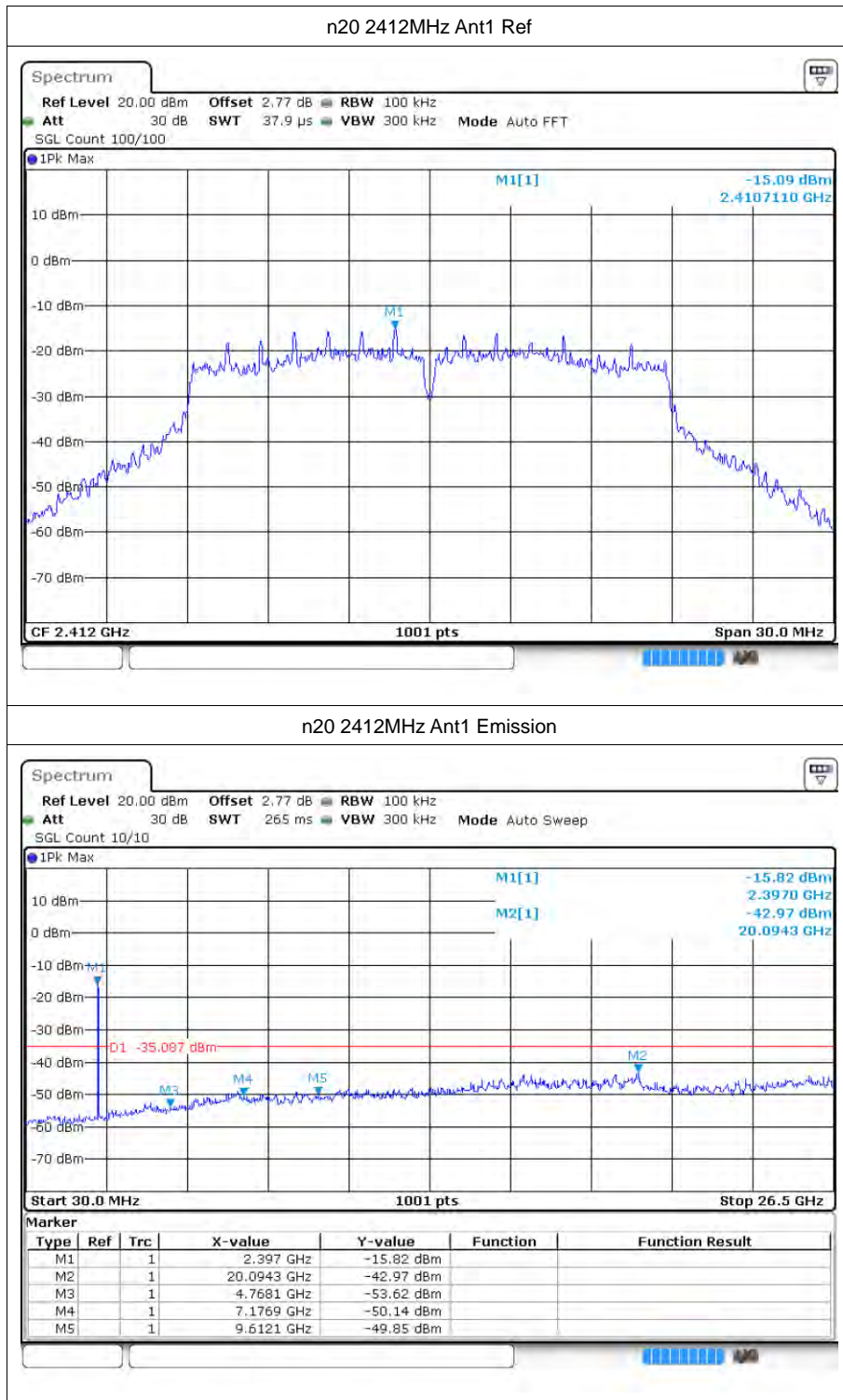


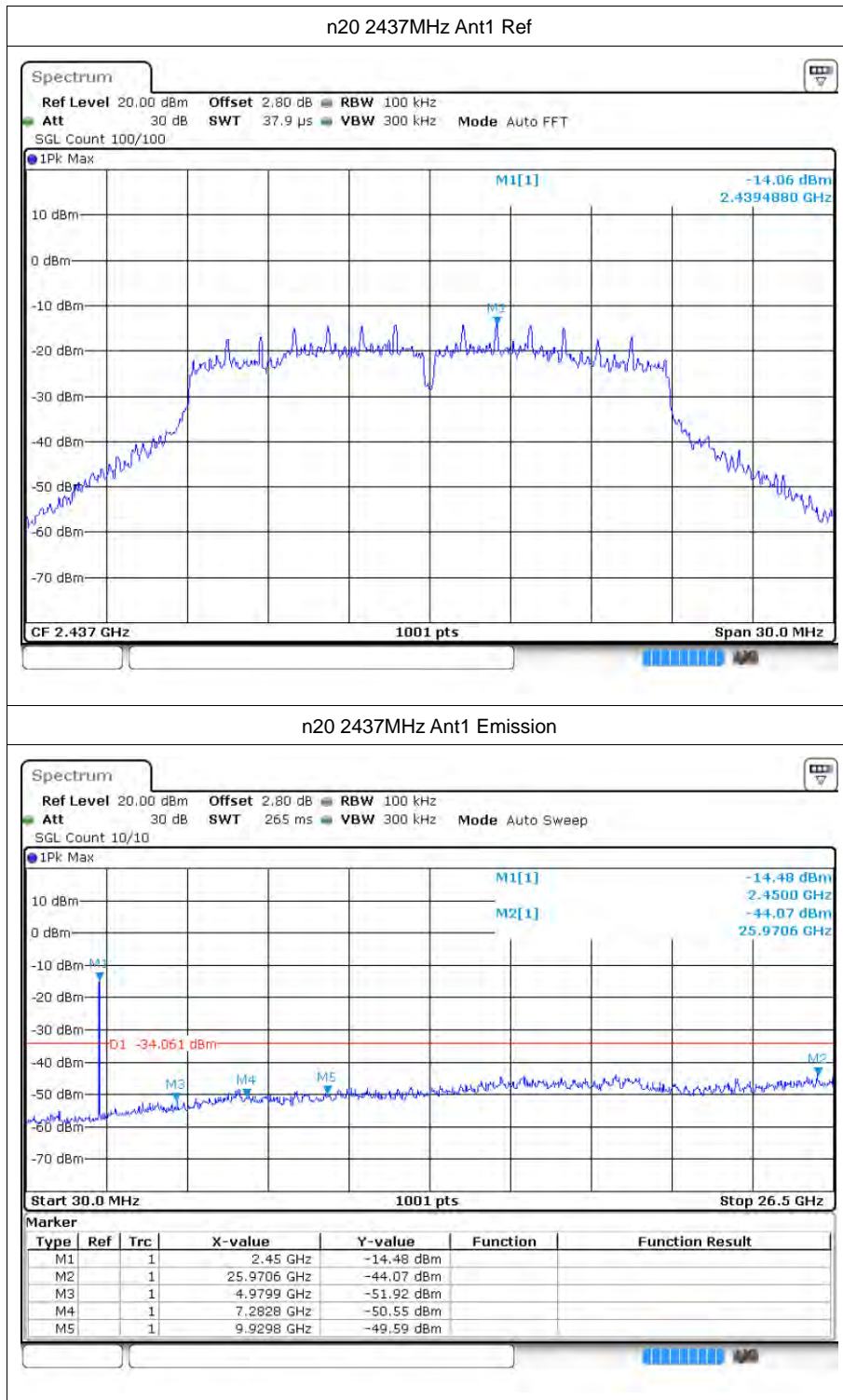


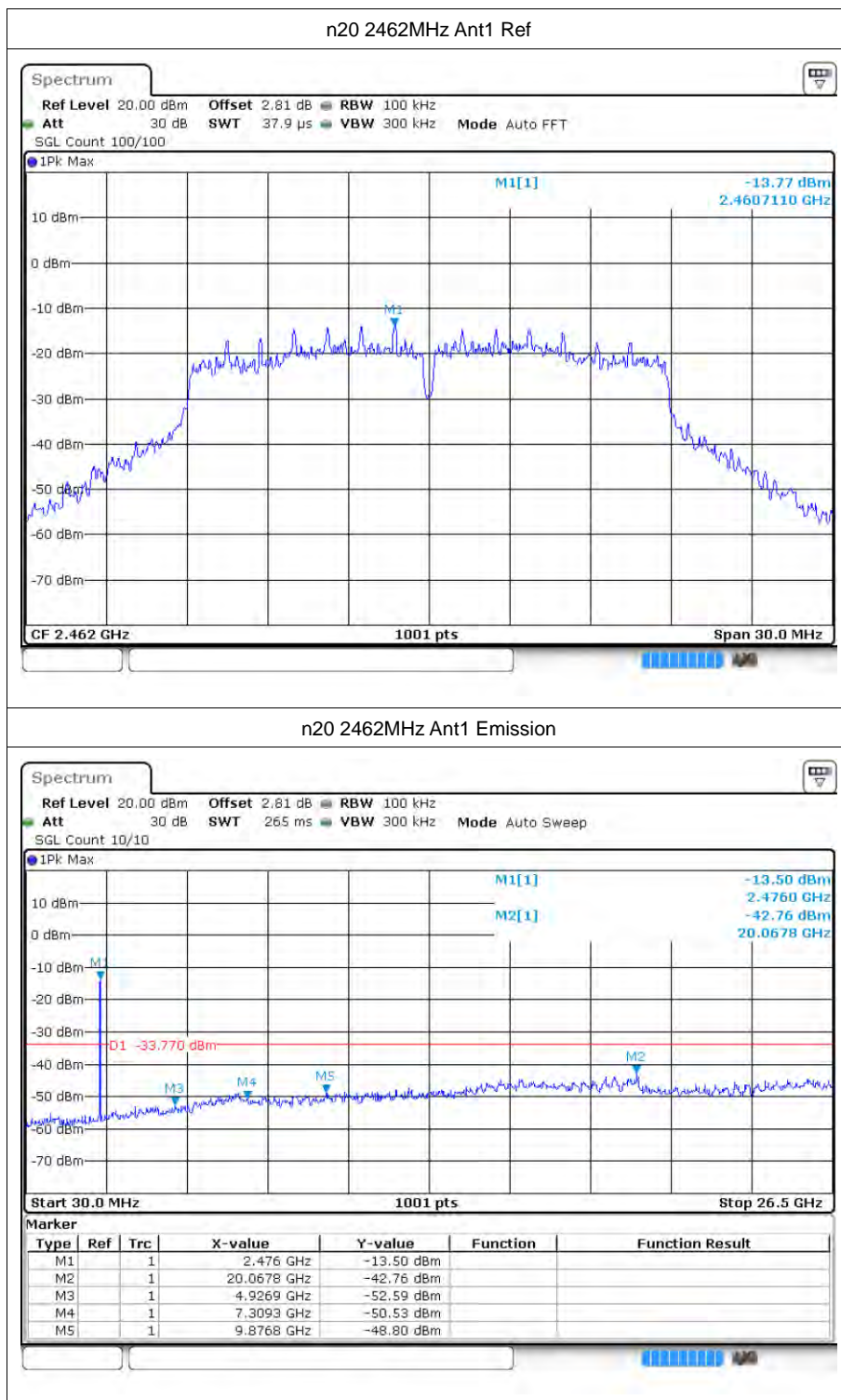


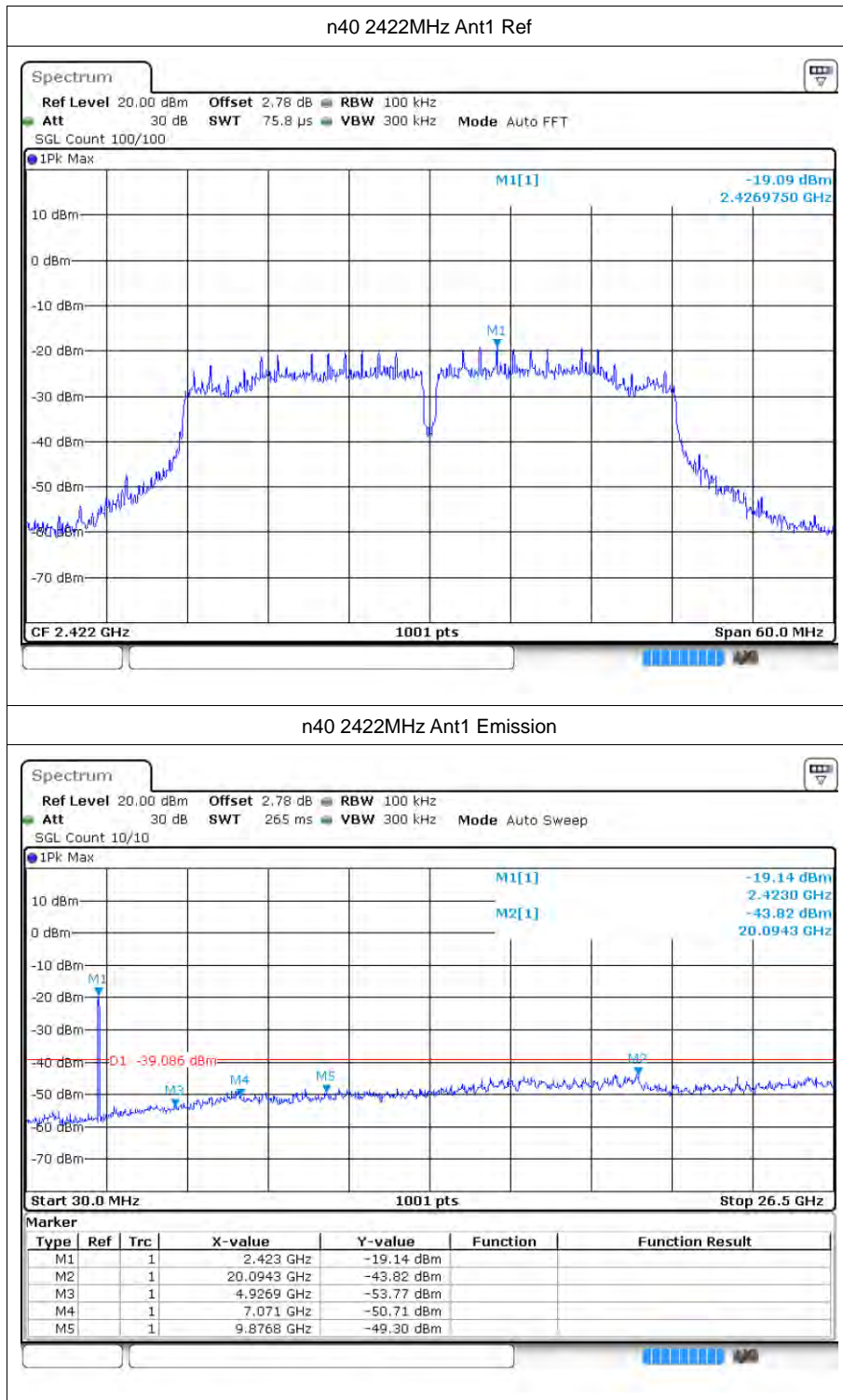


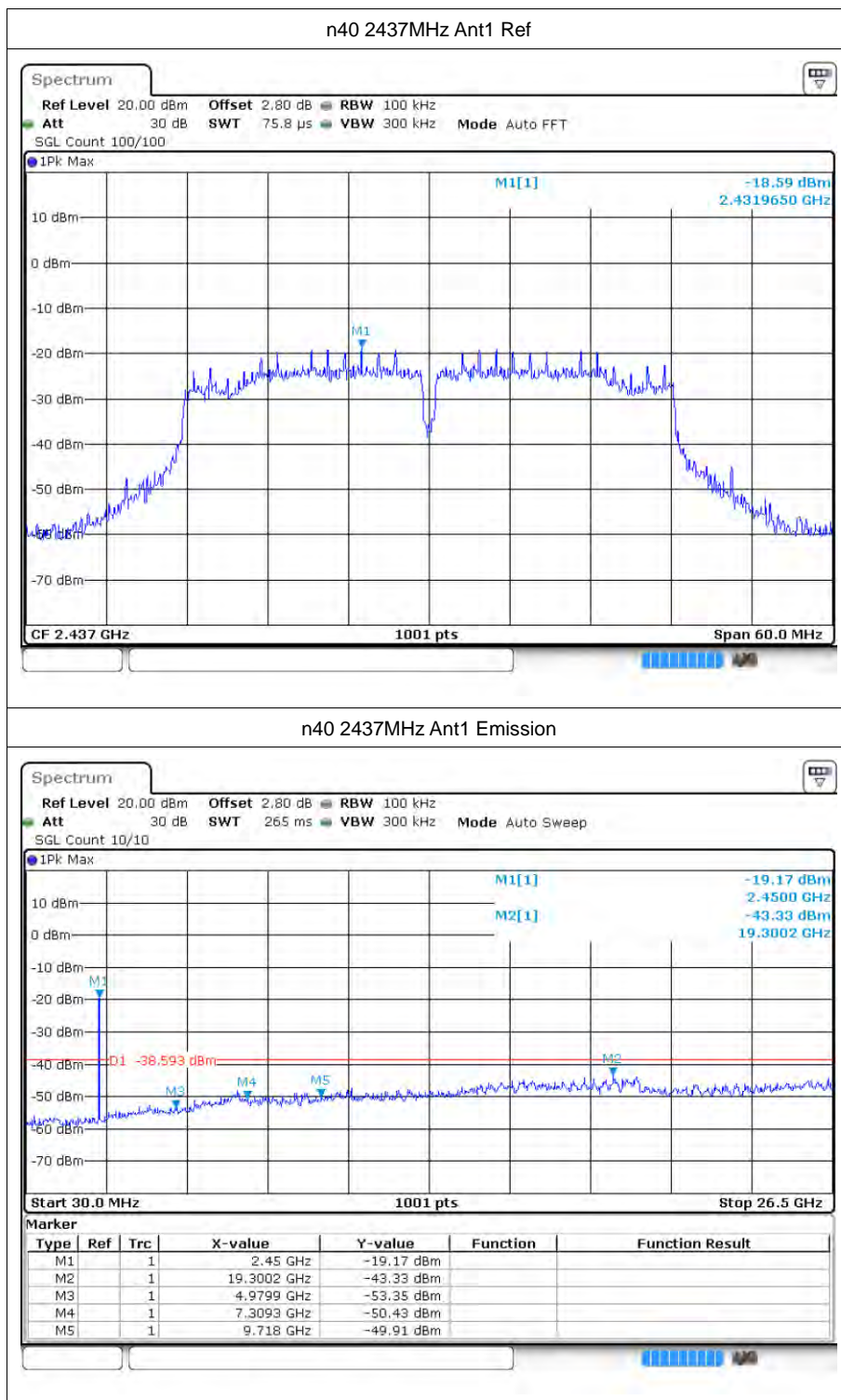


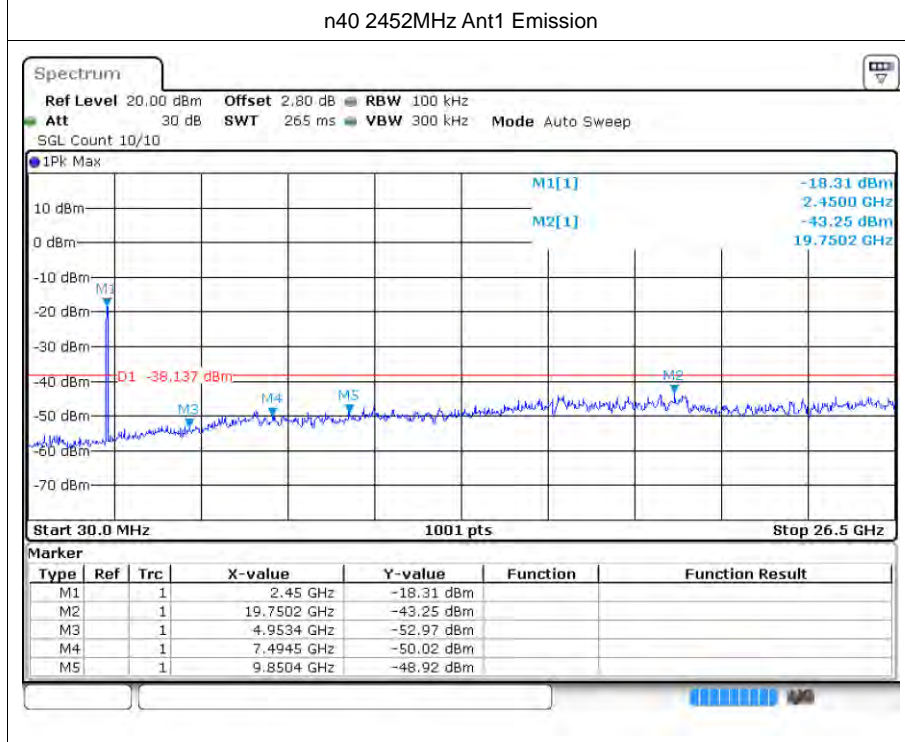
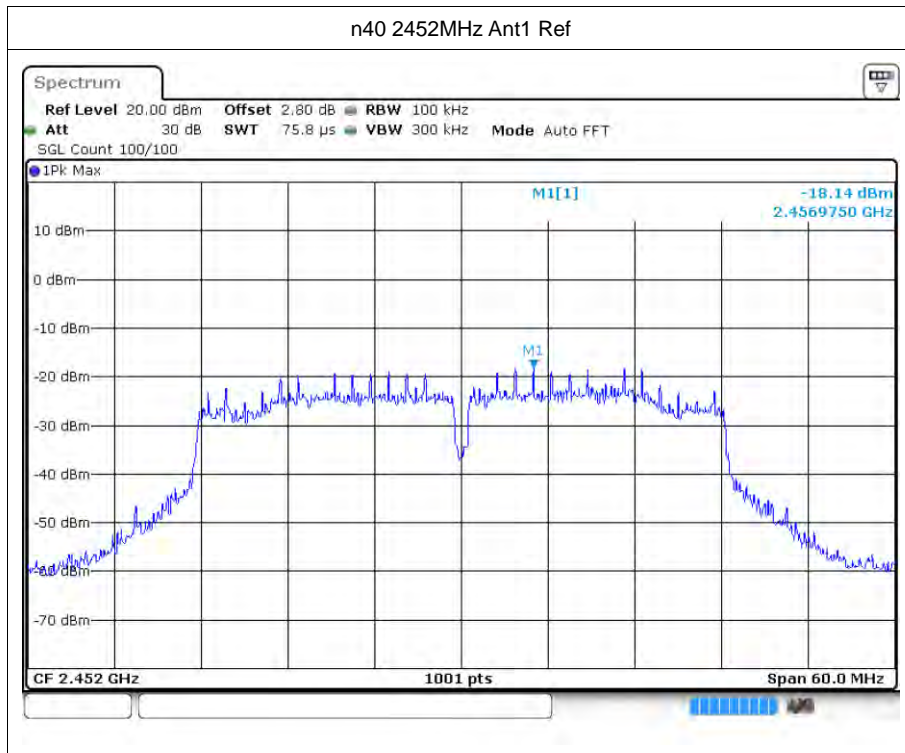














## 7 Restrict Band

### 7.1 Test Result

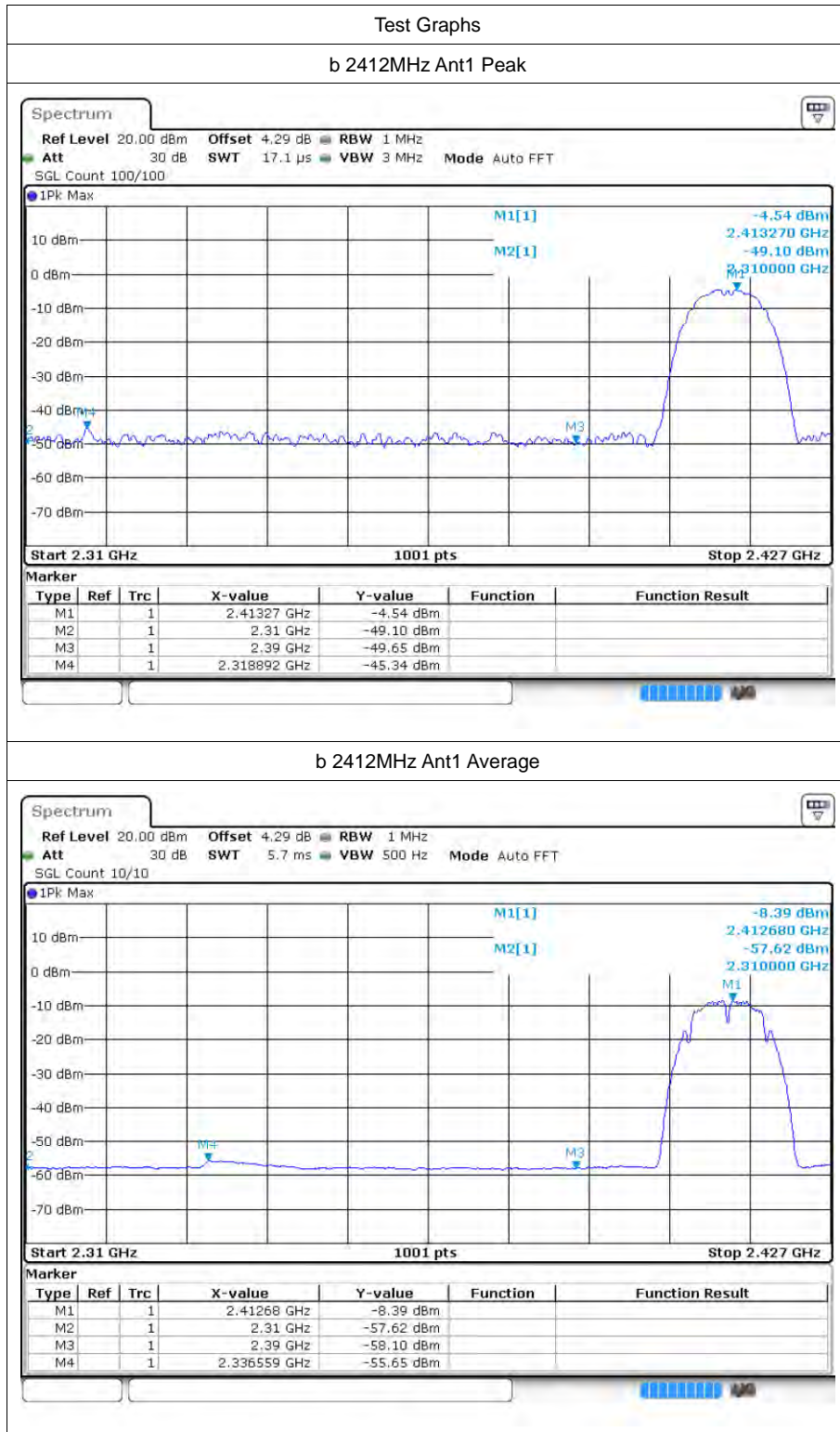
Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
b	2412	Ant1	2310	-49.09	2	48.17	Peak	74	Pass
b	2412	Ant1	2310	-57.61	2	39.65	Average	54	Pass
b	2412	Ant1	2318.892	-45.33	2	51.93	Peak	74	Pass
b	2412	Ant1	2336.559	-55.65	2	41.61	Average	54	Pass
b	2412	Ant1	2390	-49.64	2	47.62	Peak	74	Pass
b	2412	Ant1	2390	-58.09	2	39.17	Average	54	Pass
b	2462	Ant1	2483.5	-49.54	2	47.72	Peak	74	47.72
b	2462	Ant1	2483.5	-57.62	2	39.64	Average	54	Pass
b	2462	Ant1	2485.16	-45.18	2	52.08	Peak	74	Pass
b	2462	Ant1	2486.22	-57.56	2	39.7	Average	54	Pass
b	2462	Ant1	2500	-47.22	2	50.04	Peak	74	Pass
b	2462	Ant1	2500	-57.61	2	39.65	Average	54	Pass
g	2412	Ant1	2310	-48.81	2	48.45	Peak	74	Pass
g	2412	Ant1	2310	-56.21	2	41.05	Average	54	Pass
g	2412	Ant1	2341.356	-45.33	2	51.93	Peak	74	Pass
g	2412	Ant1	2336.91	-54.36	2	42.9	Average	54	Pass
g	2412	Ant1	2390	-49.18	2	47.62	Peak	74	Pass
g	2412	Ant1	2390	-56.26	2	41	Average	54	Pass
g	2462	Ant1	2483.5	-47.84	2	49.42	Peak	74	Pass
g	2462	Ant1	2483.5	-56.03	2	41.23	Average	54	Pass
g	2462	Ant1	2485.16	-45.71	2	51.55	Peak	74	Pass
g	2462	Ant1	2490.248	-55.39	2	41.87	Average	54	Pass
g	2462	Ant1	2500	-48.52	2	50.04	Peak	74	Pass
g	2462	Ant1	2500	-56.24	2	41.02	Average	54	Pass
n20	2412	Ant1	2310	-45.86	2	51.4	Peak	74	Pass
n20	2412	Ant1	2310	-56.37	2	40.89	Average	54	Pass
n20	2412	Ant1	2310.351	-45.15	2	52.11	Peak	74	Pass
n20	2412	Ant1	2337.612	-54.16	2	43.1	Average	54	Pass
n20	2412	Ant1	2390	-46.42	2	50.84	Peak	74	Pass
n20	2412	Ant1	2390	-56.68	2	40.58	Average	54	Pass
n20	2462	Ant1	2483.5	-47.01	2	50.25	Peak	74	Pass
n20	2462	Ant1	2483.5	-56.18	2	41.08	Average	54	Pass
n20	2462	Ant1	2484.1	-45.39	2	51.87	Peak	74	Pass
n20	2462	Ant1	2490.672	-55.73	2	41.53	Average	54	Pass

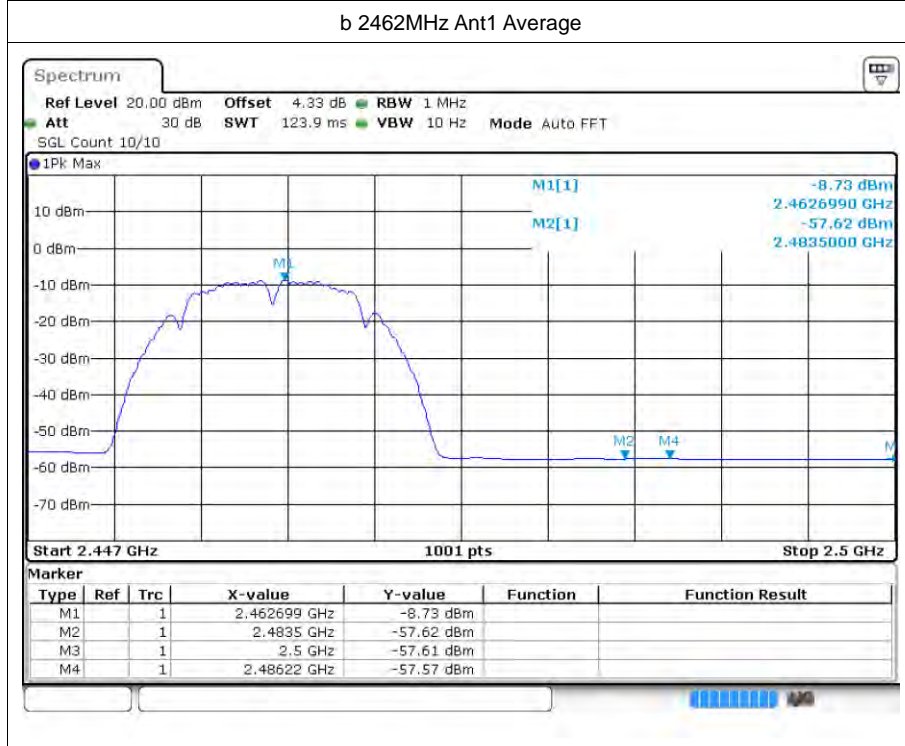
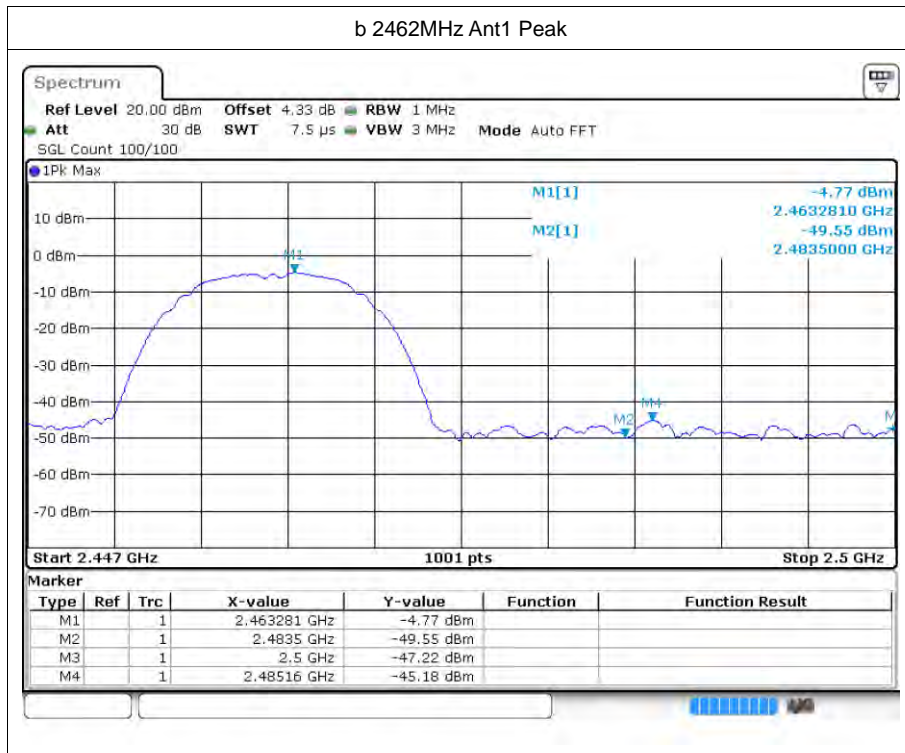


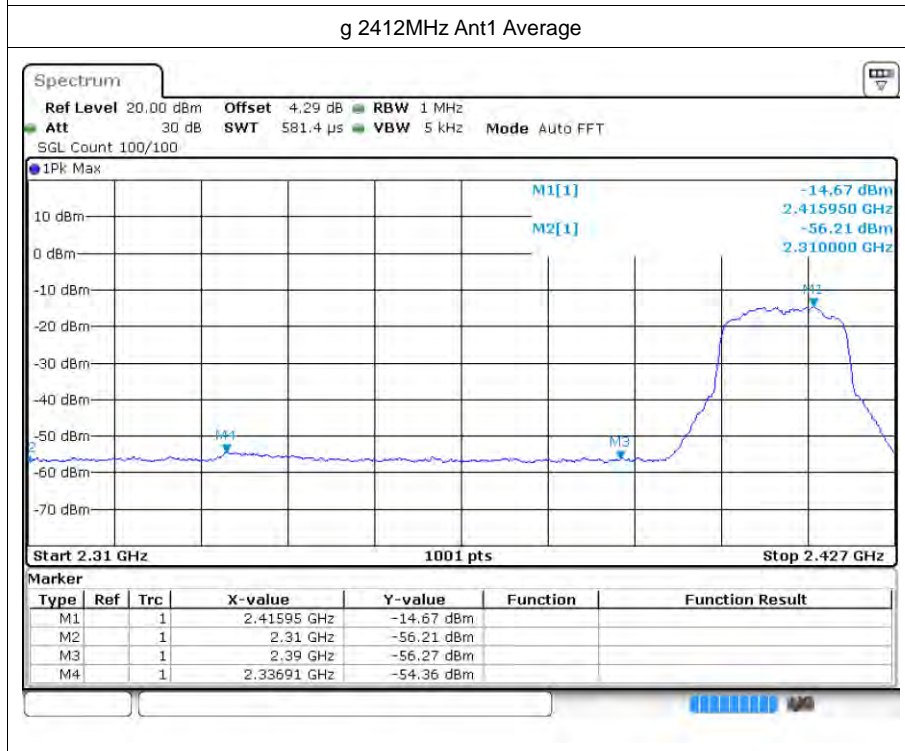
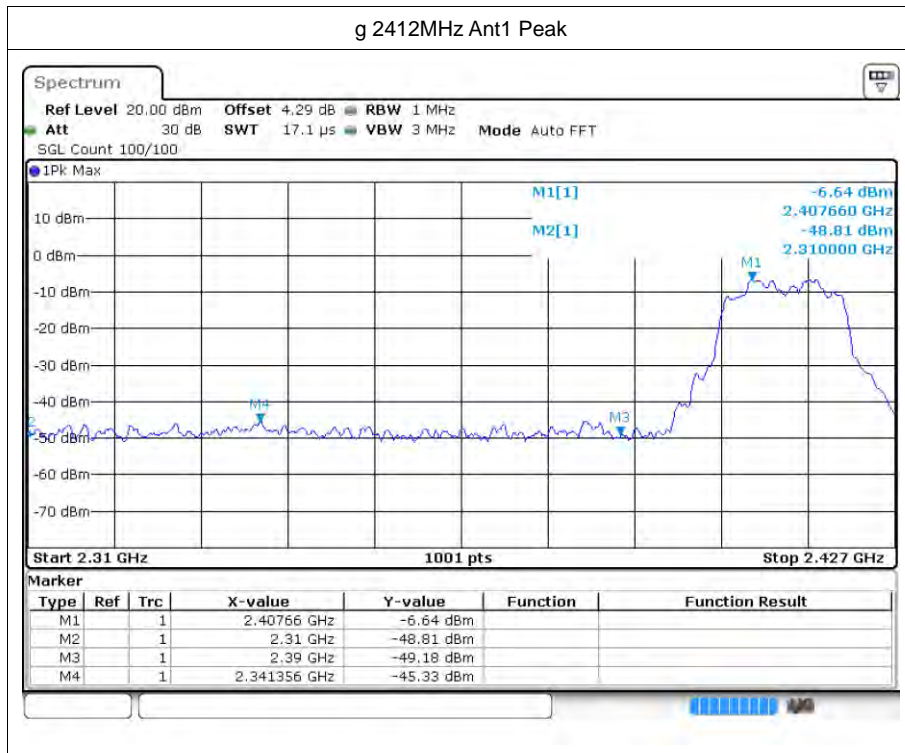
n20	2462	Ant1	2500	-49.68	2	47.58	Peak	74	Pass
n20	2462	Ant1	2500	-56.24	2	41.02	Average	54	Pass
n40	2422	Ant1	2310	-48.77	2	48.49	Peak	74	Pass
n40	2422	Ant1	2310	-56.47	2	40.79	Average	54	Pass
n40	2422	Ant1	2340.814	-45.62	2	51.64	Peak	74	Pass
n40	2422	Ant1	2339.394	-54.02	2	43.24	Average	54	Pass
n40	2422	Ant1	2390	-49.19	2	48.07	Peak	74	Pass
n40	2422	Ant1	2390	-56.76	2	40.5	Average	54	Pass
n40	2452	Ant1	2483.5	-48.58	2	48.68	Peak	74	Pass
n40	2452	Ant1	2483.5	-56.45	2	40.81	Average	54	Pass
n40	2452	Ant1	2489.782	-46.21	2	51.05	Peak	74	Pass
n40	2452	Ant1	2499.61	-55.64	2	41.62	Average	54	Pass
n40	2452	Ant1	2500	-47.29	2	49.97	Peak	74	Pass
n40	2452	Ant1	2500	-55.86	2	41.4	Average	54	Pass

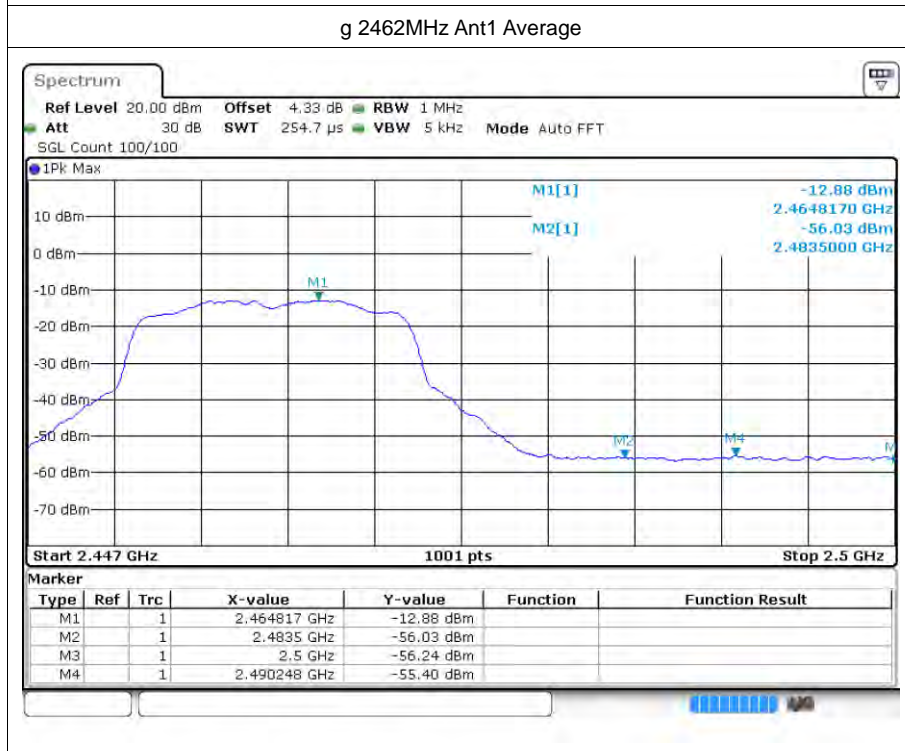
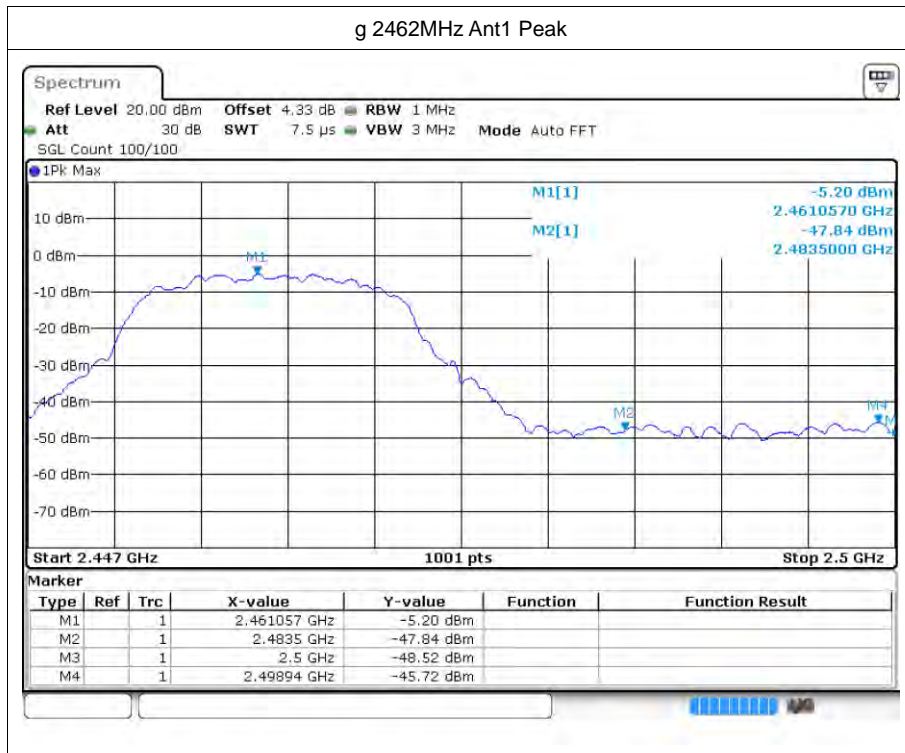


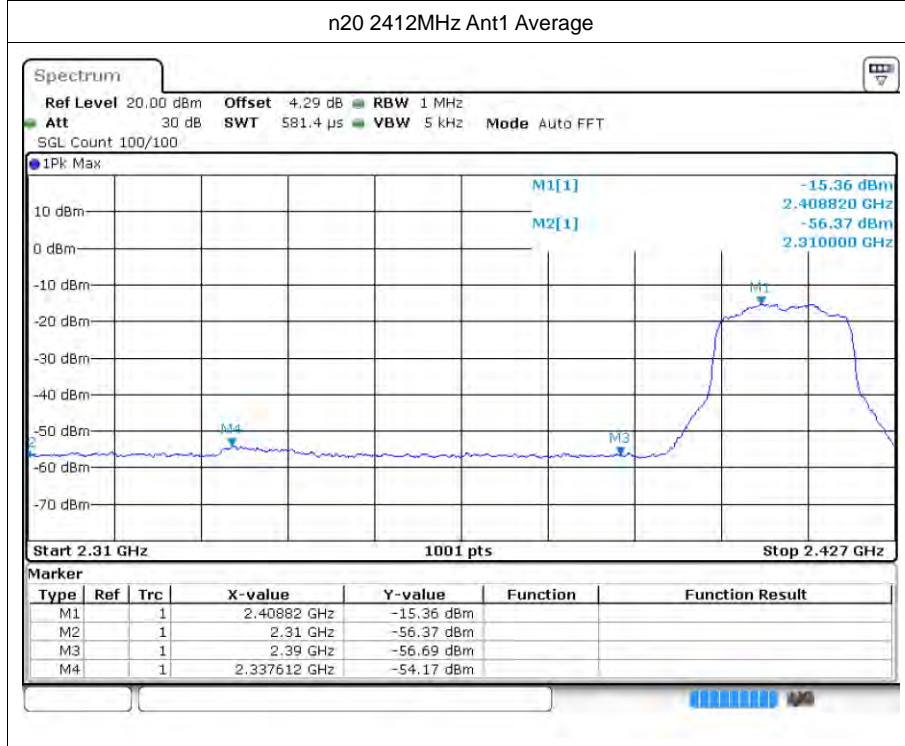
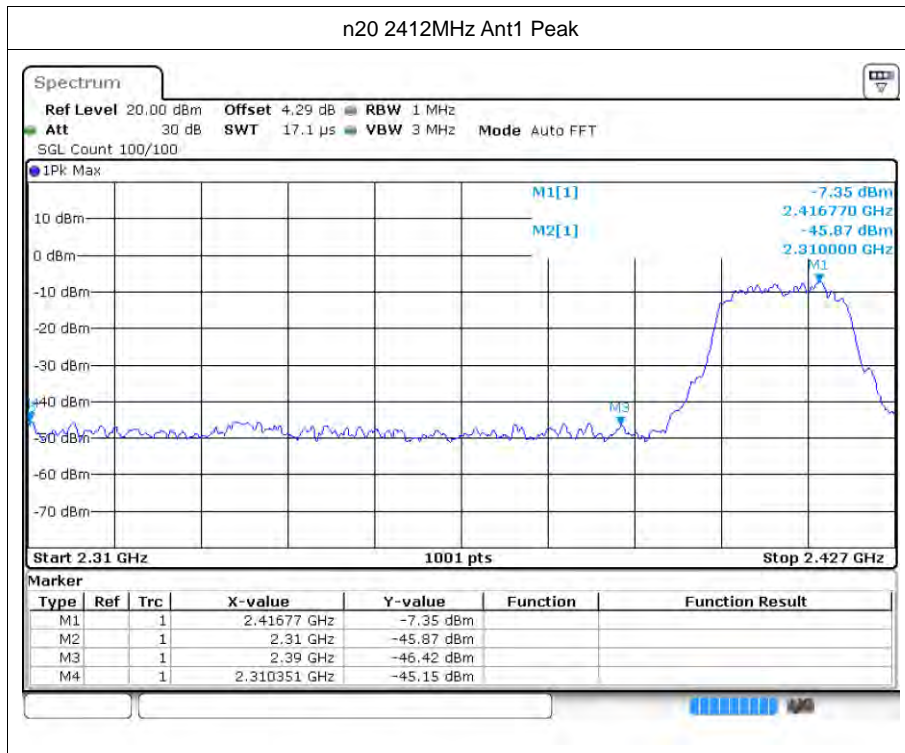
## 7.2 Test Graphs

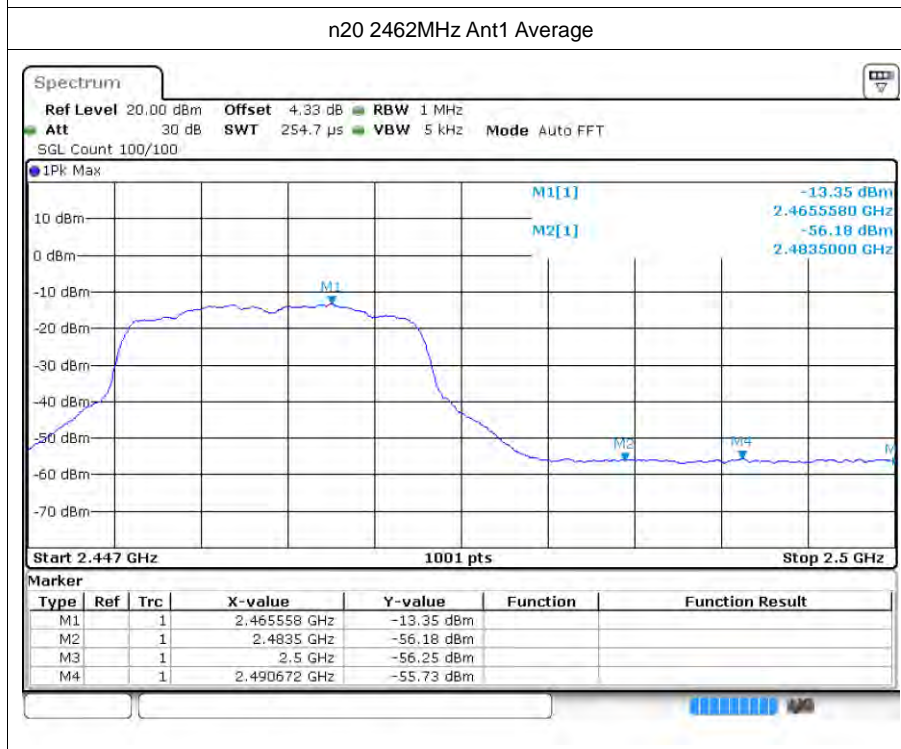
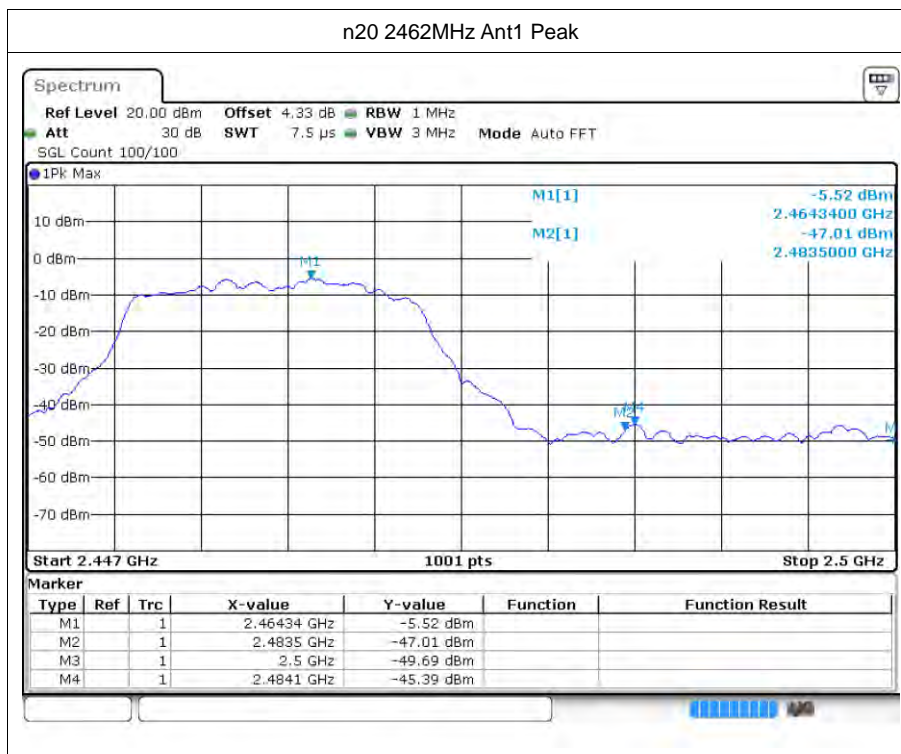


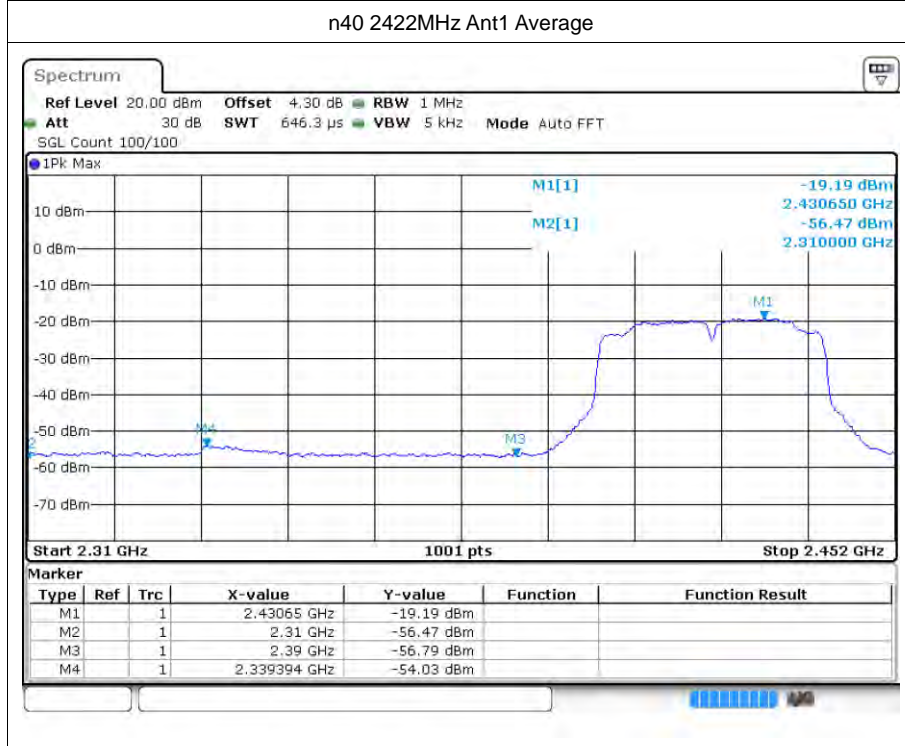
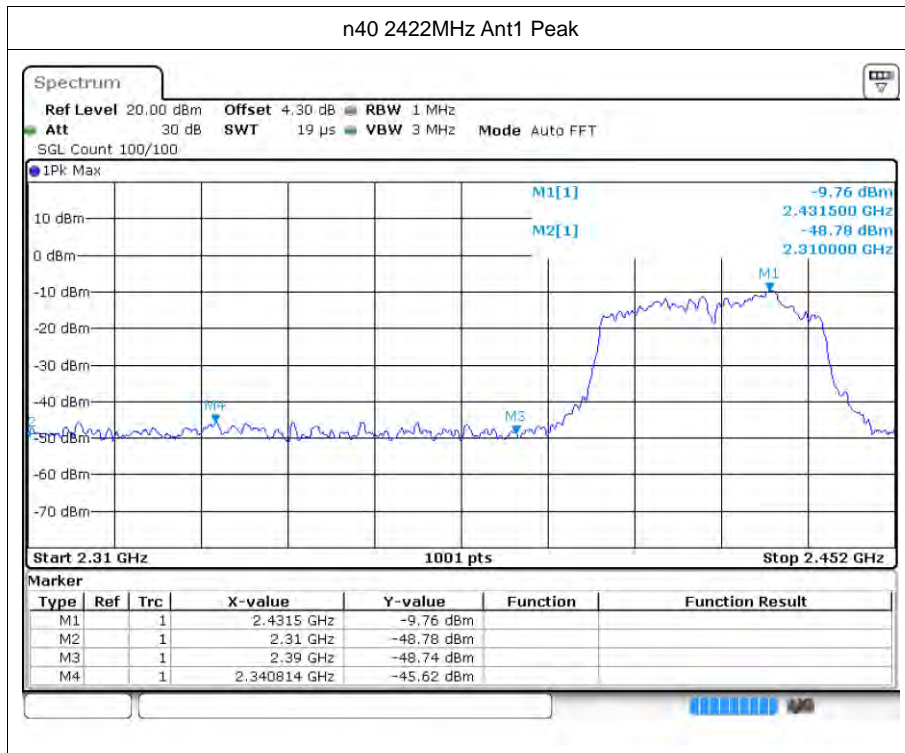


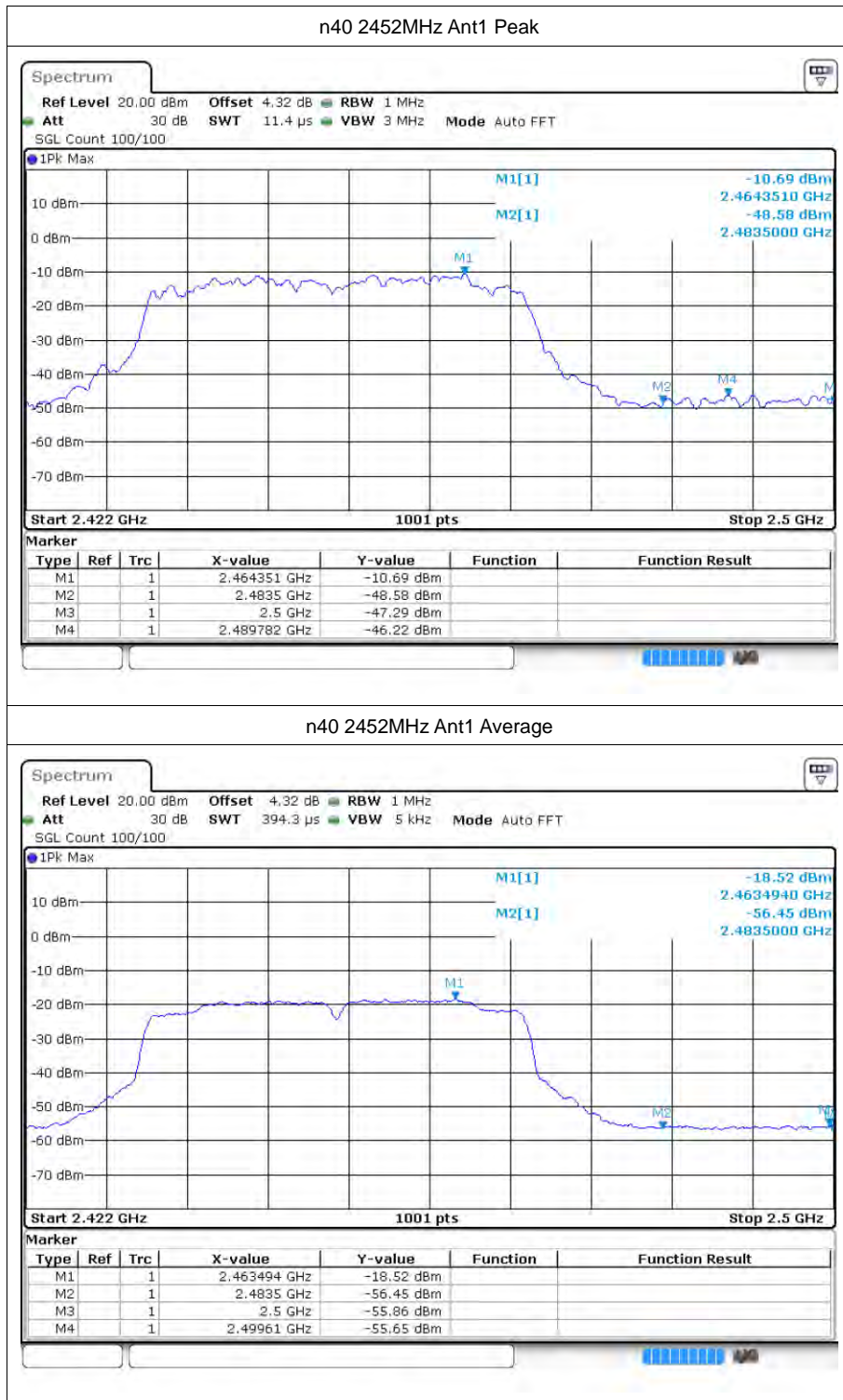












---The End---