



## Appendix C

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

Product Name: Trail Camera

Trade Mark: N/A

Test Model: PH800W

#### Environmental Conditions

|                    |             |
|--------------------|-------------|
| Temperature:       | 22.6° C     |
| Relative Humidity: | 52.4%       |
| ATM Pressure:      | 100.0 kPa   |
| Test Engineer:     | Simba Huang |
| Supervised by:     | Seal Chen   |



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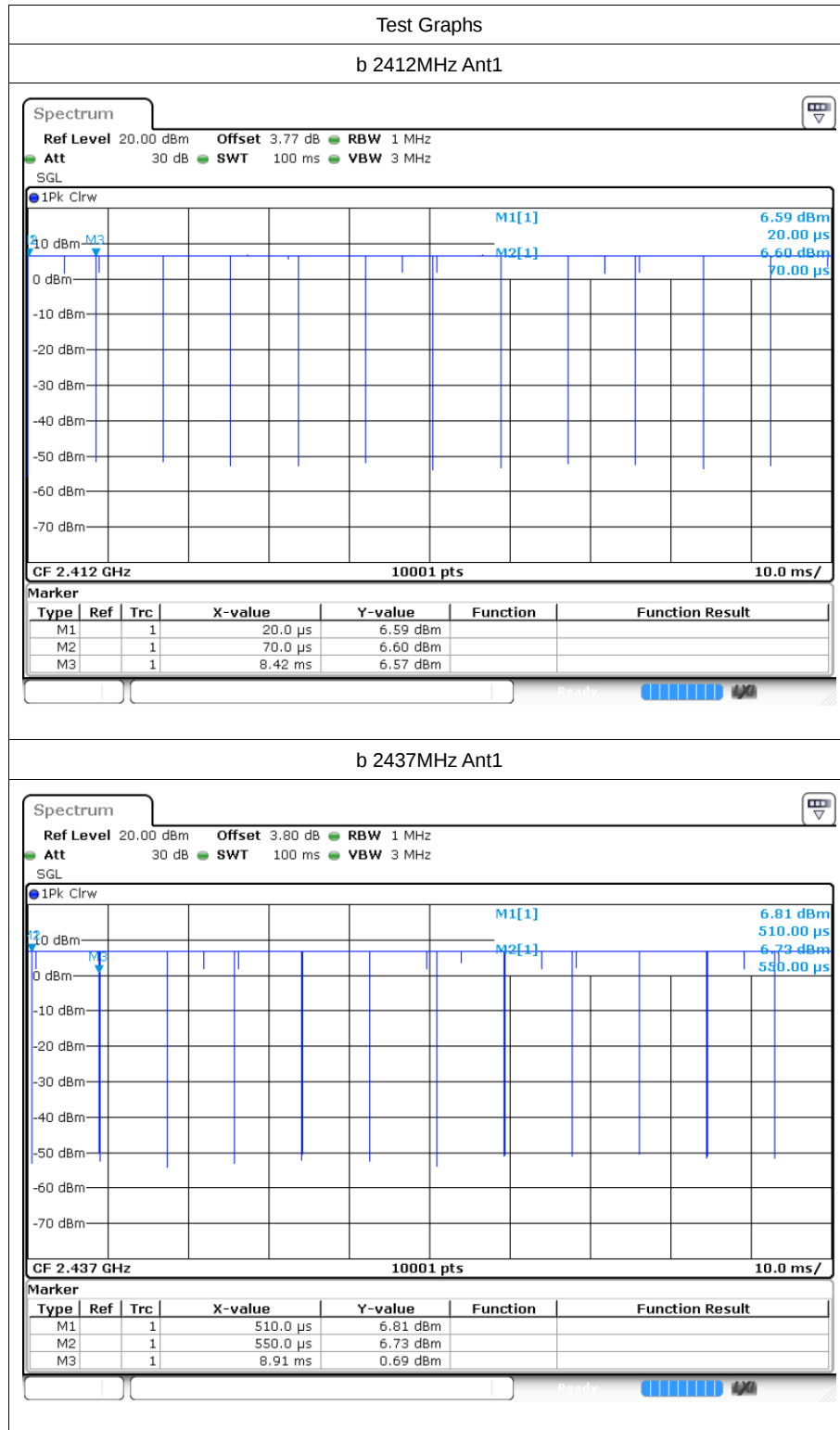


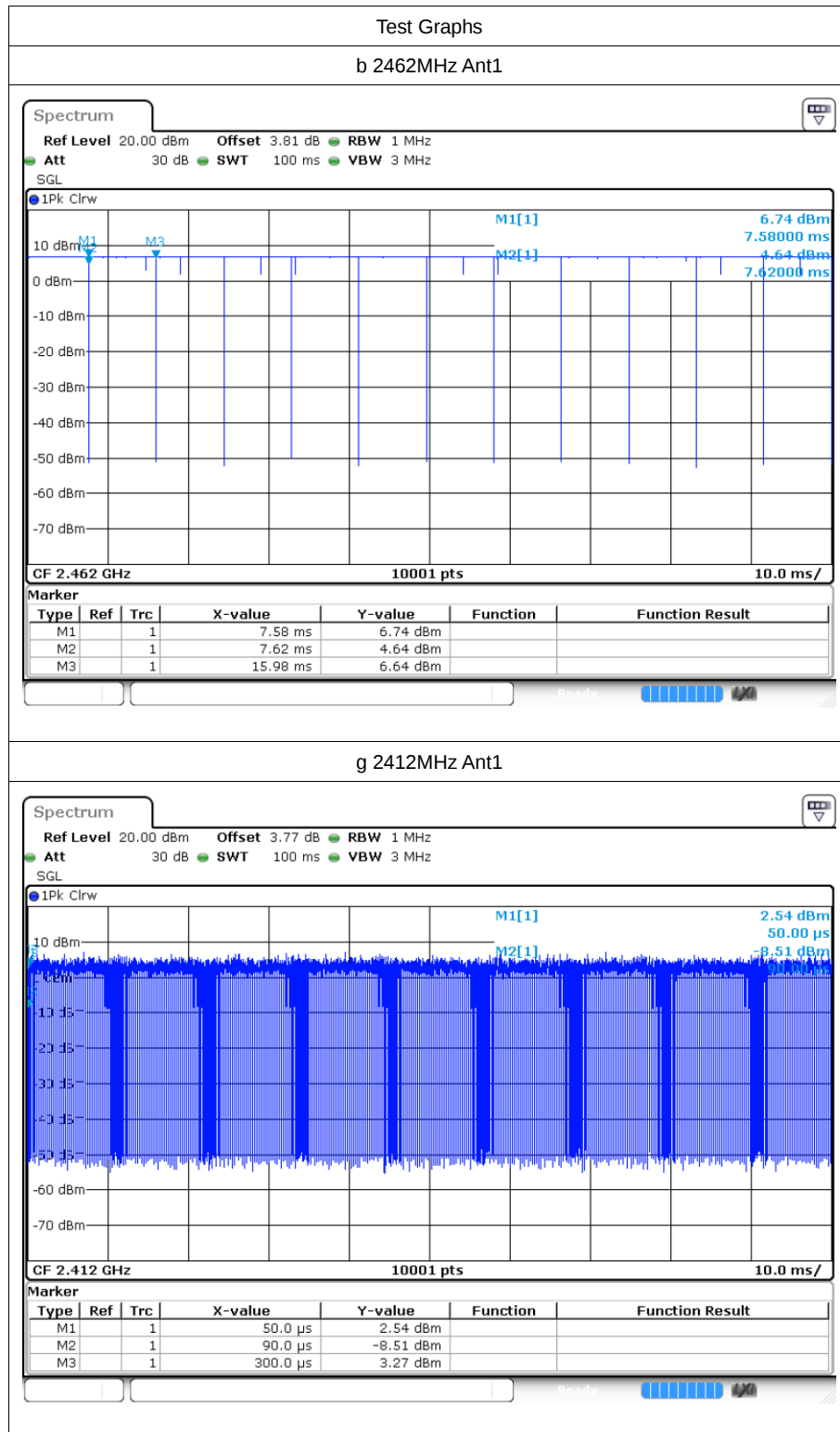
# 1 Duty Cycle

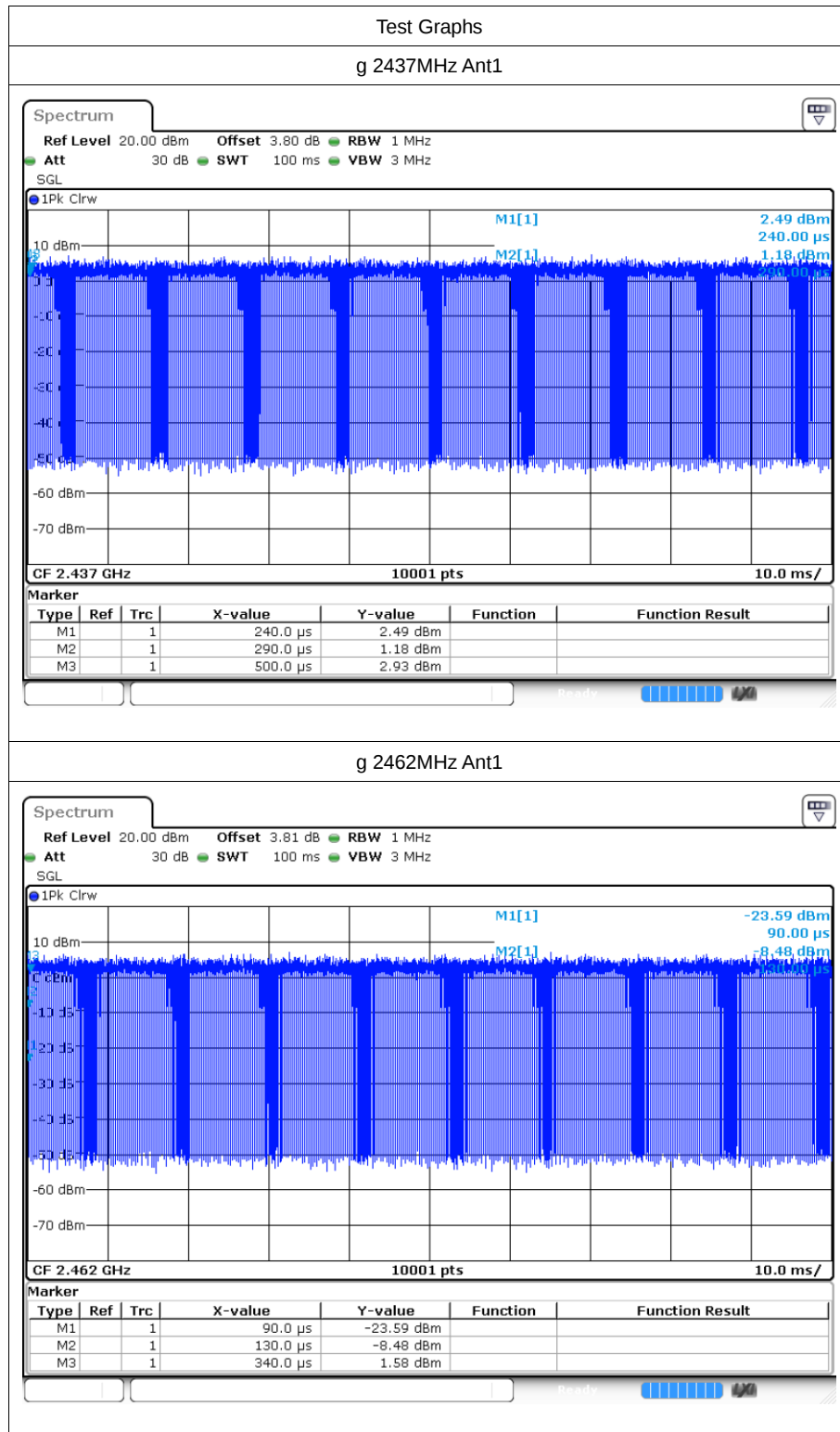
## 1.1 Test Result

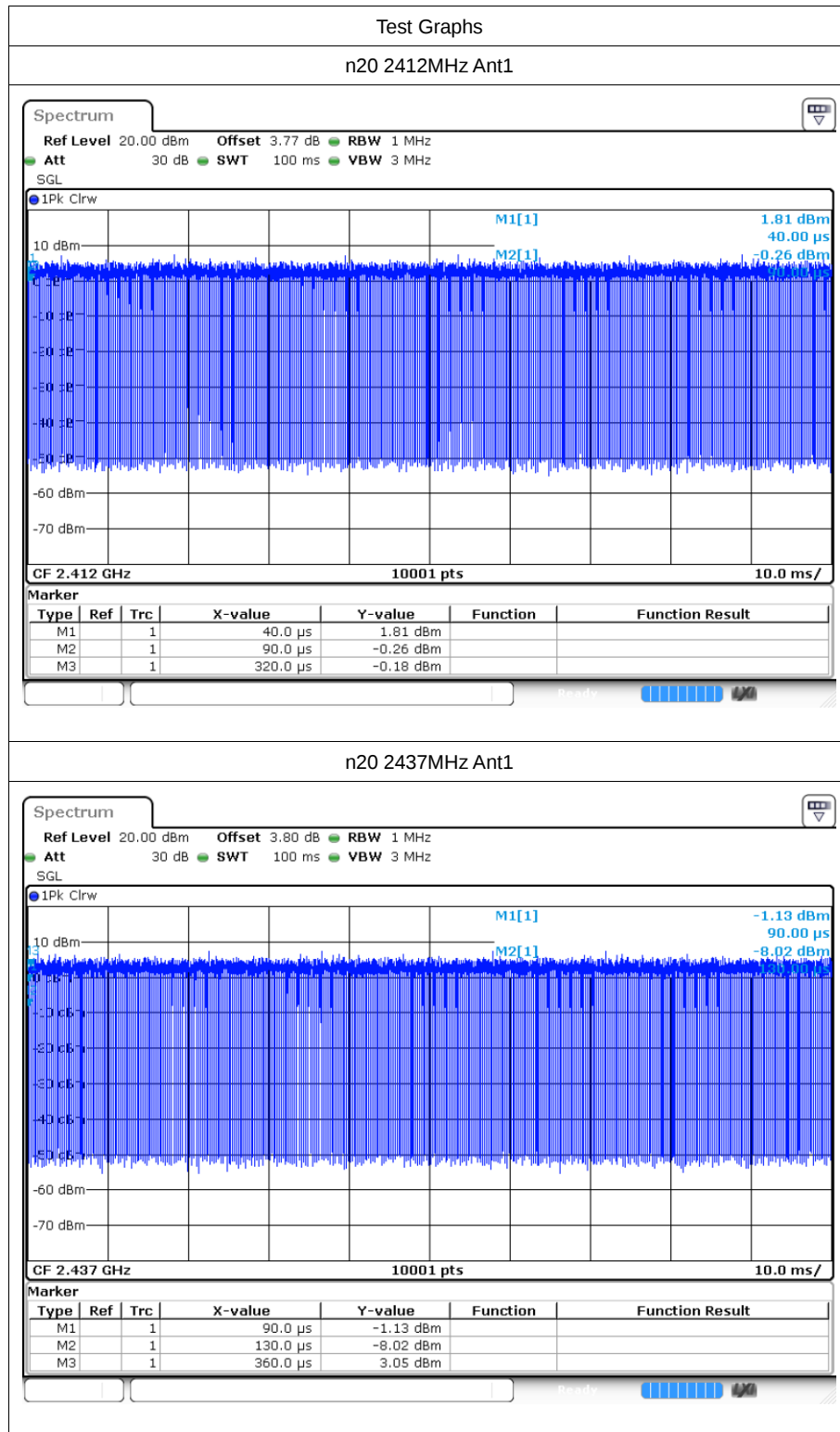
| Mode | Frequency (MHz) | Antenna | Duty Cycle (%) | 1/T (kHz) |
|------|-----------------|---------|----------------|-----------|
| b    | 2412            | Ant1    | 99.59          | 0.12      |
| b    | 2437            | Ant1    | 99.61          | 0.12      |
| b    | 2462            | Ant1    | 99.61          | 0.12      |
| g    | 2412            | Ant1    | 86.91          | 4.76      |
| g    | 2437            | Ant1    | 86.89          | 4.76      |
| g    | 2462            | Ant1    | 87.07          | 4.76      |
| n20  | 2412            | Ant1    | 87.33          | 4.35      |
| n20  | 2437            | Ant1    | 87.37          | 4.35      |
| n20  | 2462            | Ant1    | 87.32          | 4.17      |

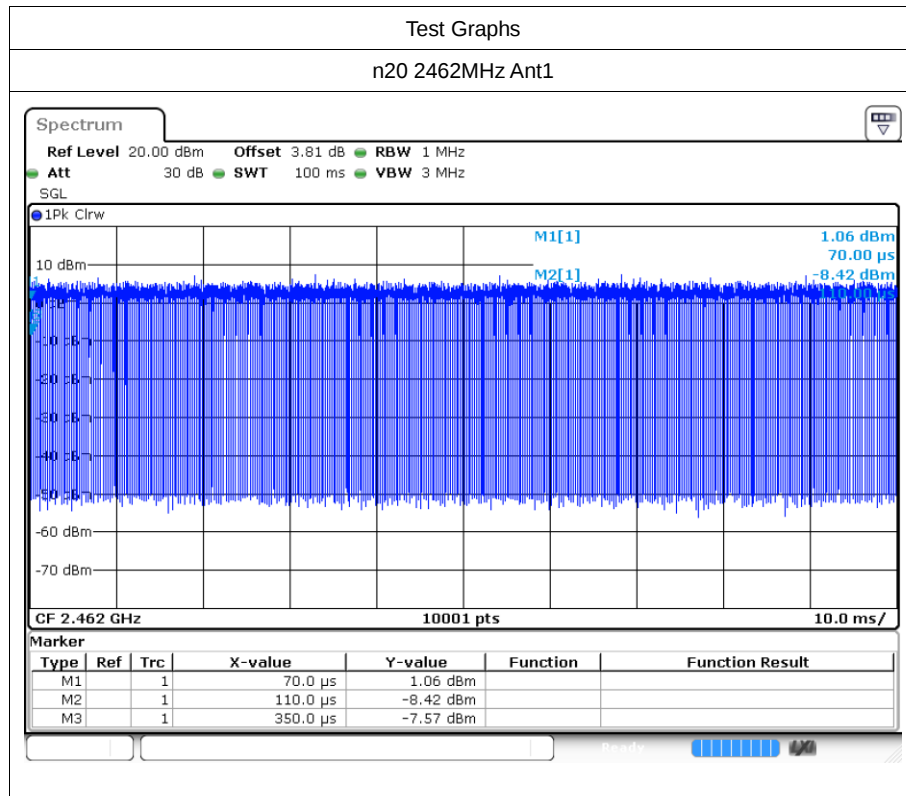
## 1.2 Test Graphs











## 2 Maximum Conducted Output Power

### 2.1 Test Result

| Mode | Frequency (MHz) | Antenna | Conducted Power (dBm) | Limit (dBm) | Verdict |
|------|-----------------|---------|-----------------------|-------------|---------|
| b    | 2412            | Ant1    | 17.16                 | 30          | Pass    |
| b    | 2437            | Ant1    | 17.3                  | 30          | Pass    |
| b    | 2462            | Ant1    | 17.21                 | 30          | Pass    |
| g    | 2412            | Ant1    | 16.29                 | 30          | Pass    |
| g    | 2437            | Ant1    | 16.4                  | 30          | Pass    |
| g    | 2462            | Ant1    | 16.31                 | 30          | Pass    |
| n20  | 2412            | Ant1    | 16.34                 | 30          | Pass    |
| n20  | 2437            | Ant1    | 16.41                 | 30          | Pass    |
| n20  | 2462            | Ant1    | 16.29                 | 30          | Pass    |

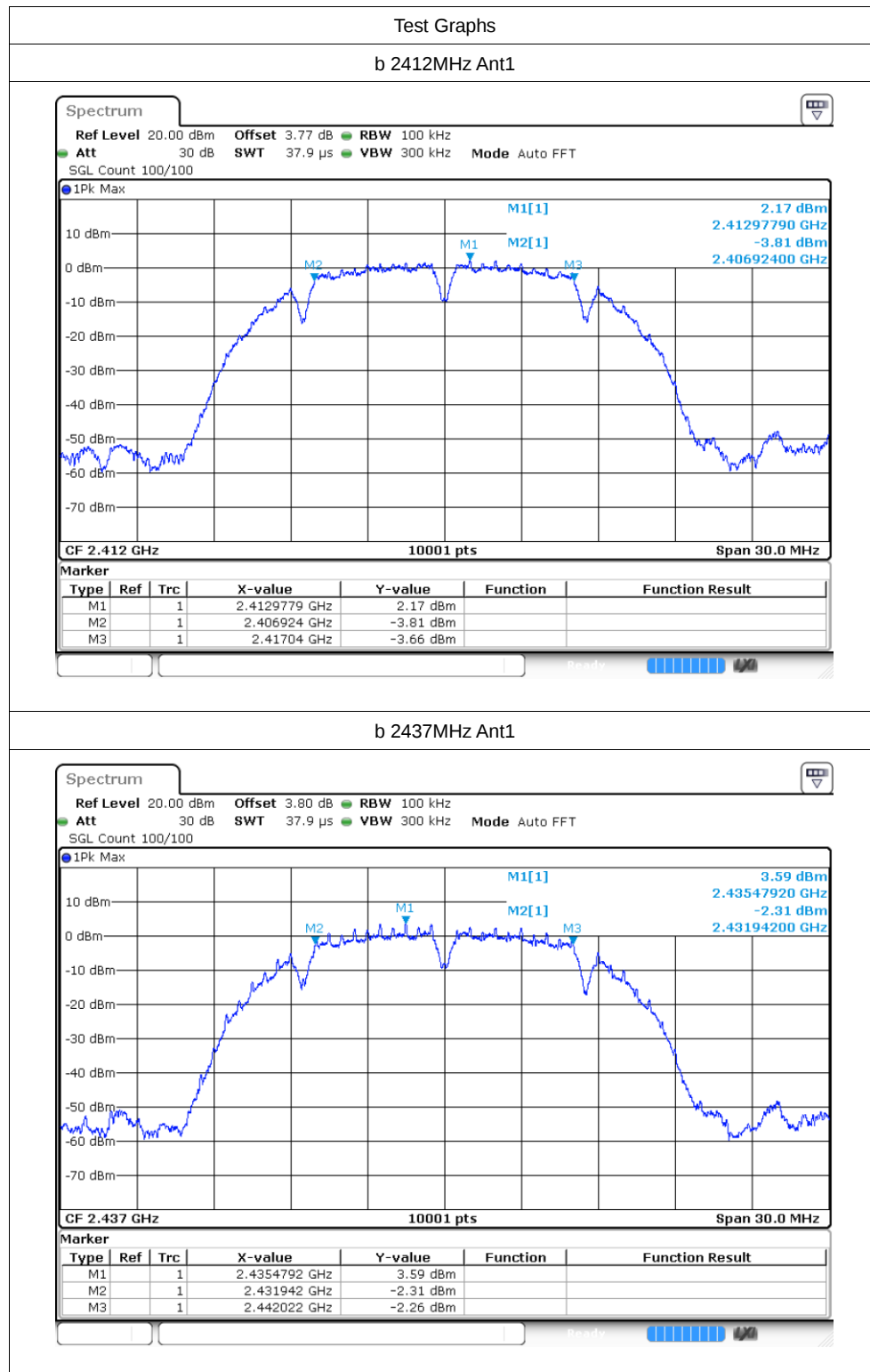


### 3 -6dB Bandwidth

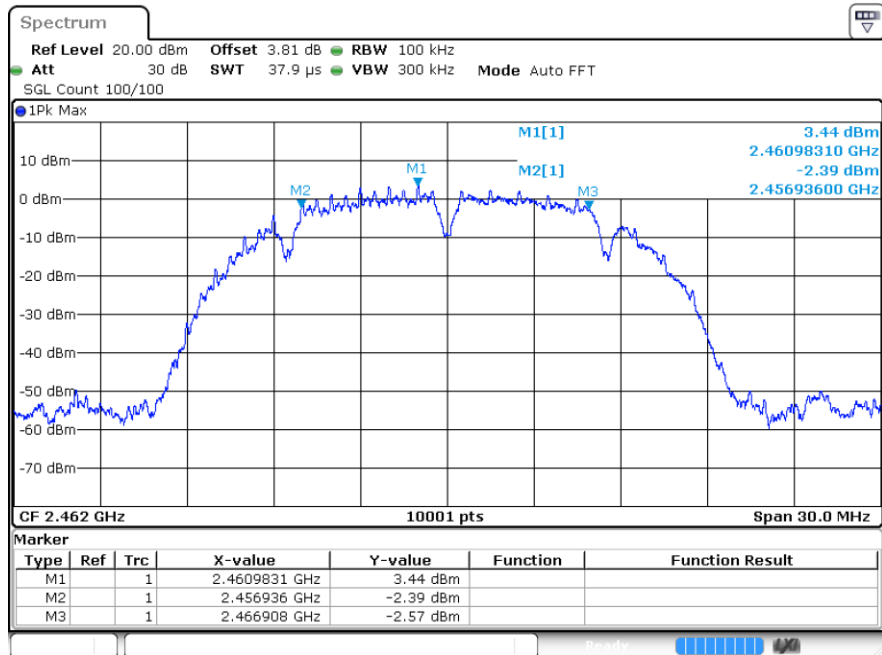
#### 3.1 Test Result

| Mode | Frequency (MHz) | Antenna | -6 dB Bandwidth (MHz) | Limit -6 dB Bandwidth (MHz) | Verdict |
|------|-----------------|---------|-----------------------|-----------------------------|---------|
| b    | 2412            | Ant1    | 10.116                | 0.5                         | Pass    |
| b    | 2437            | Ant1    | 10.08                 | 0.5                         | Pass    |
| b    | 2462            | Ant1    | 9.972                 | 0.5                         | Pass    |
| g    | 2412            | Ant1    | 13.08                 | 0.5                         | Pass    |
| g    | 2437            | Ant1    | 15.114                | 0.5                         | Pass    |
| g    | 2462            | Ant1    | 15.096                | 0.5                         | Pass    |
| n20  | 2412            | Ant1    | 15.117                | 0.5                         | Pass    |
| n20  | 2437            | Ant1    | 15.108                | 0.5                         | Pass    |
| n20  | 2462            | Ant1    | 15.114                | 0.5                         | Pass    |

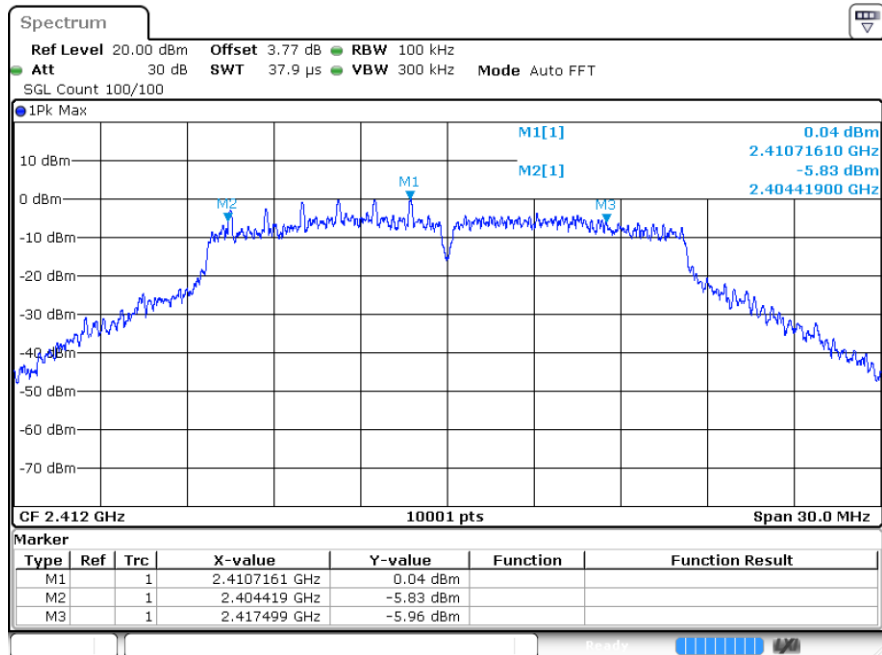
## 3.2 Test Graphs

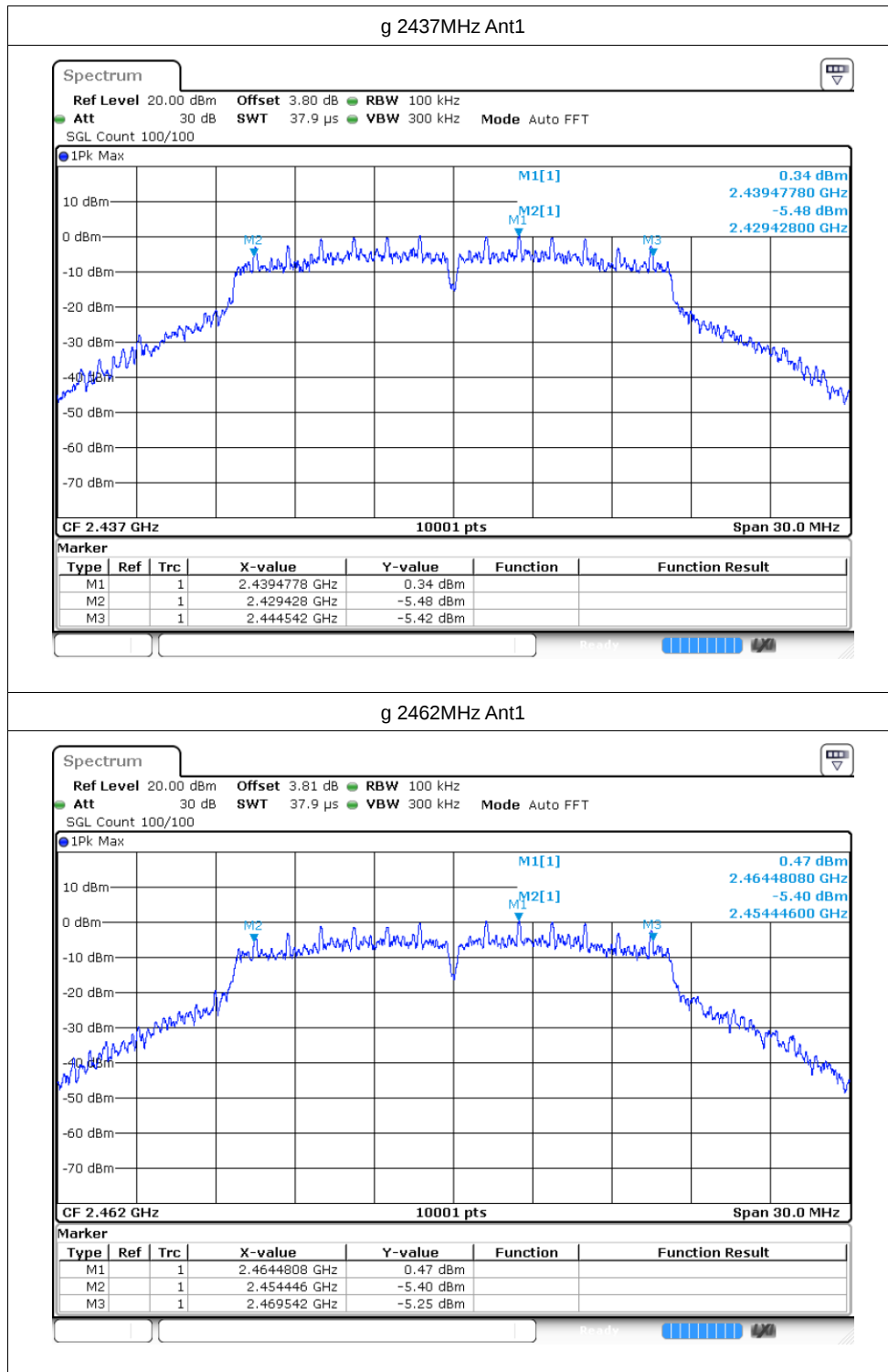


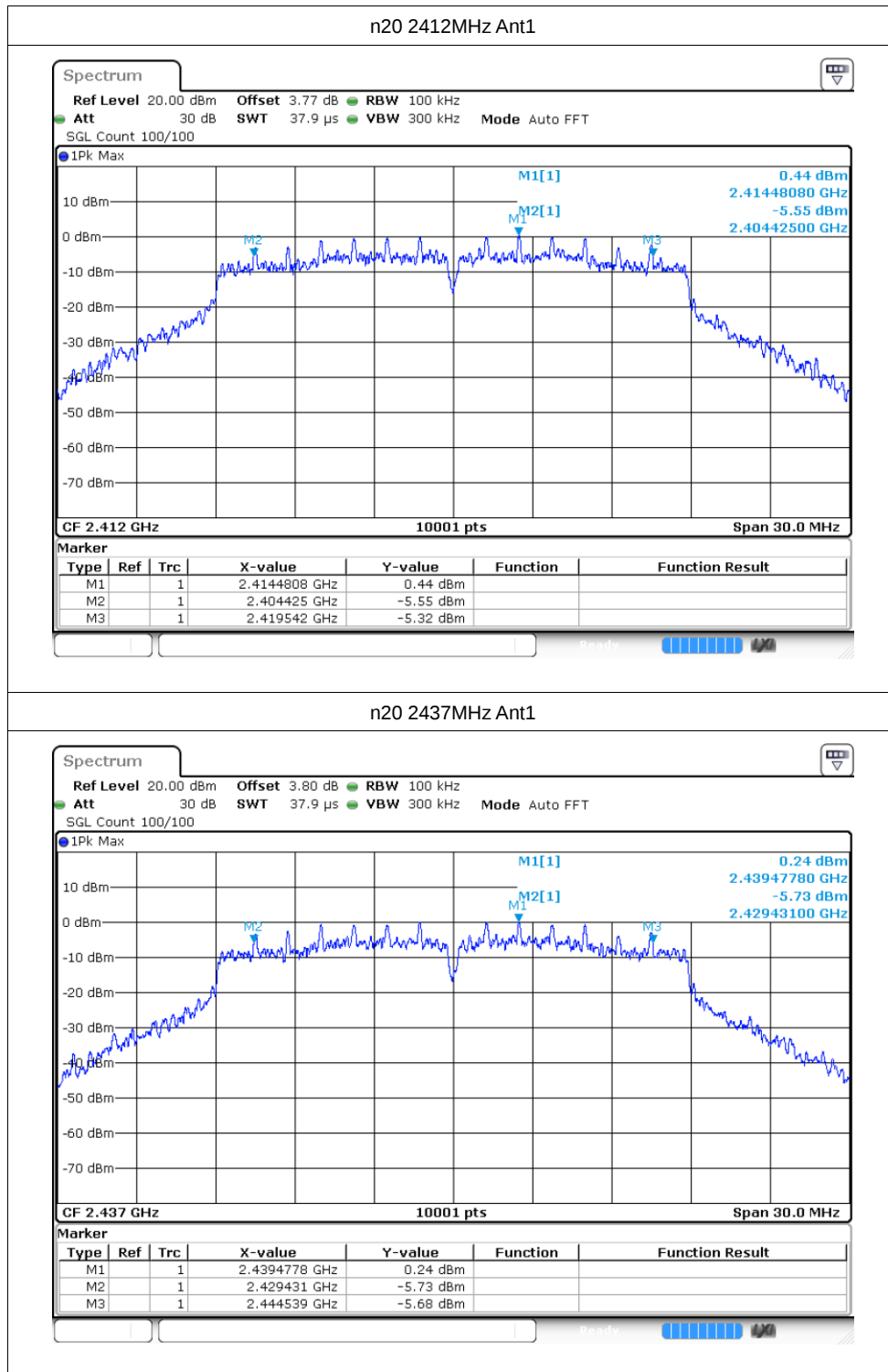
b 2462MHz Ant1

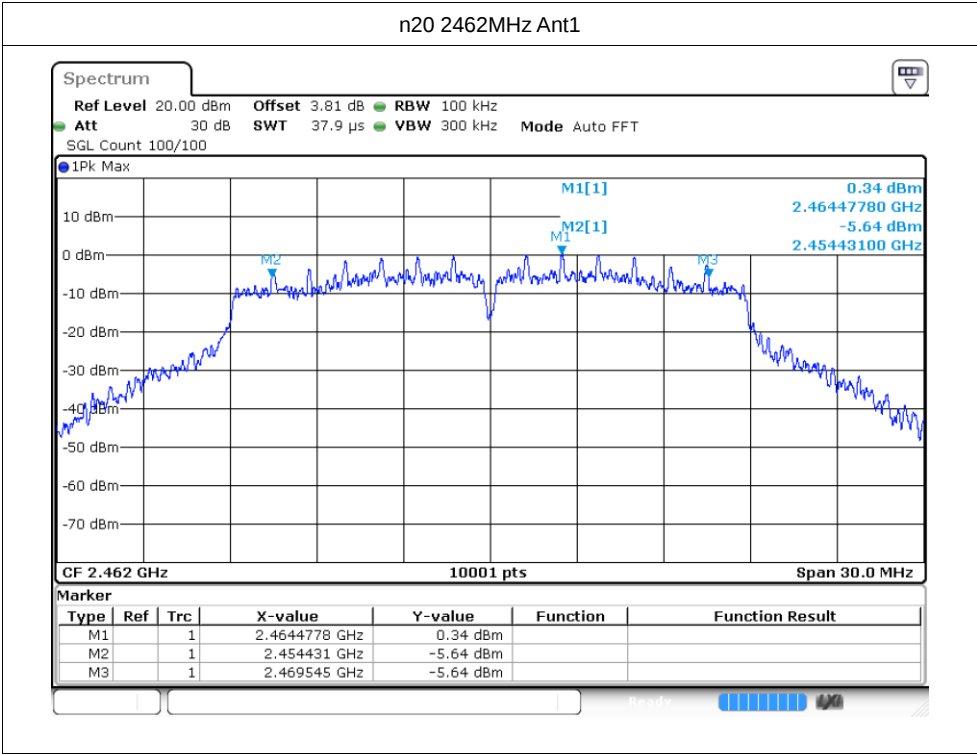


g 2412MHz Ant1







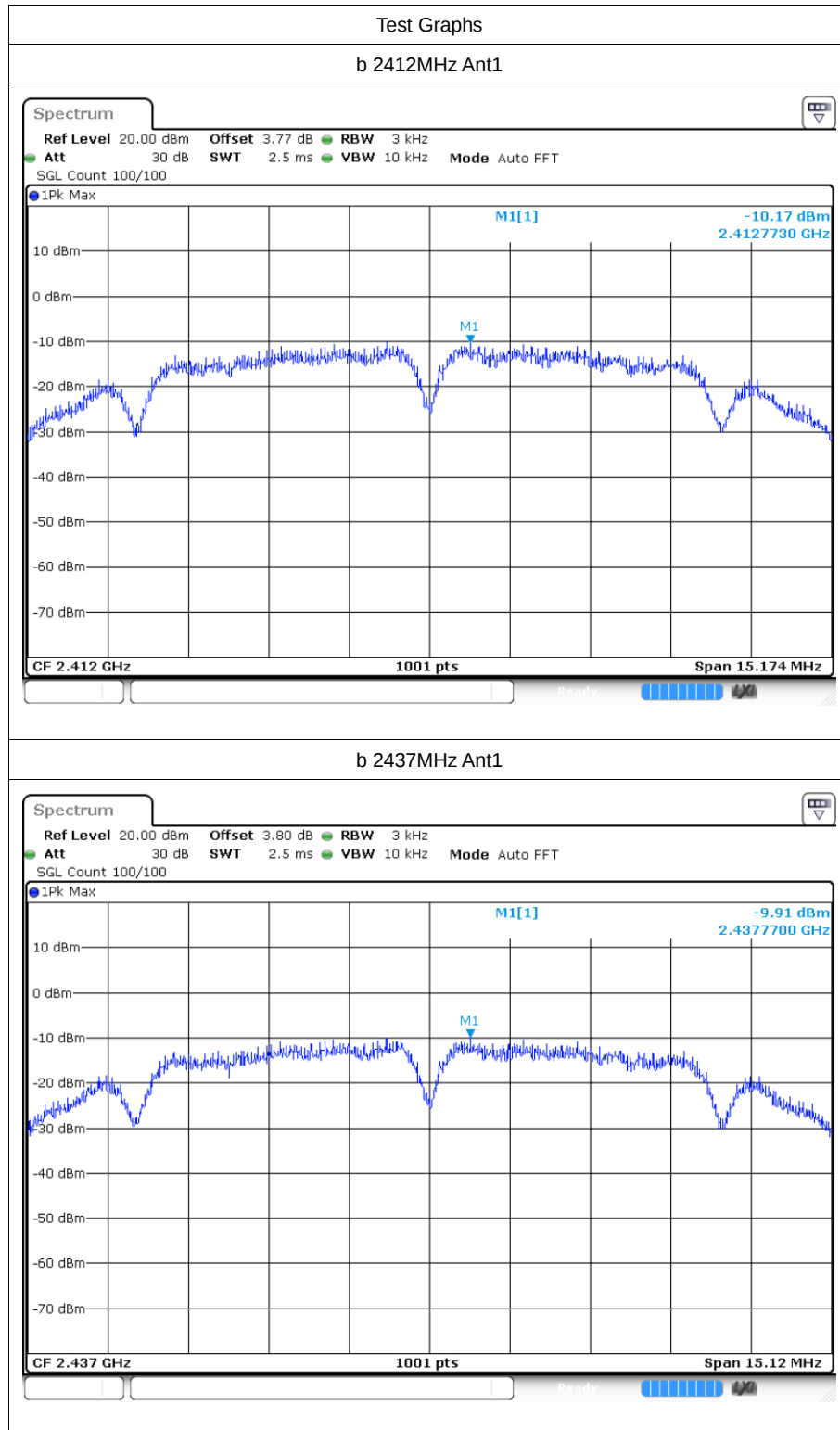


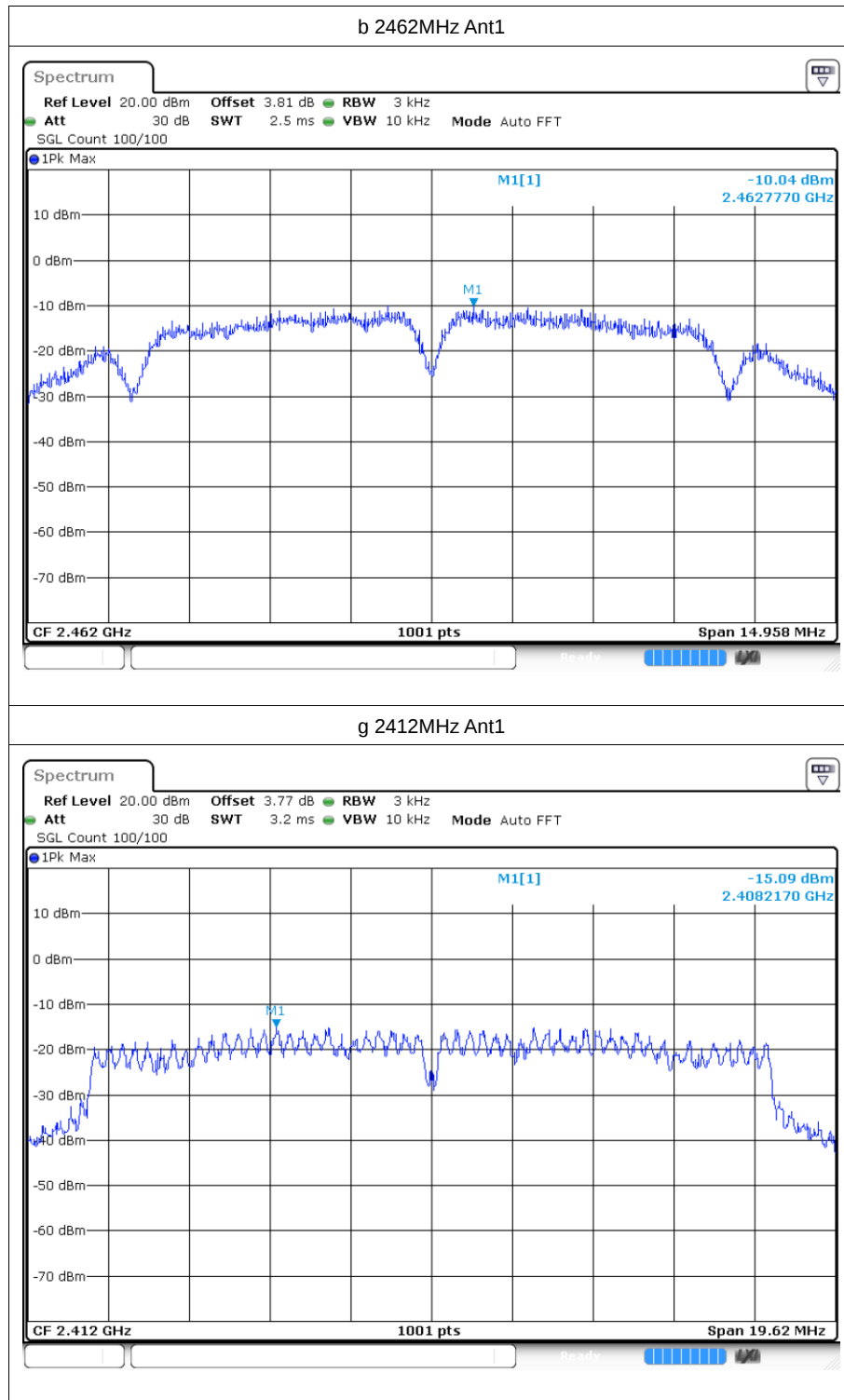
## 4 Maximum Power Spectral Density Level

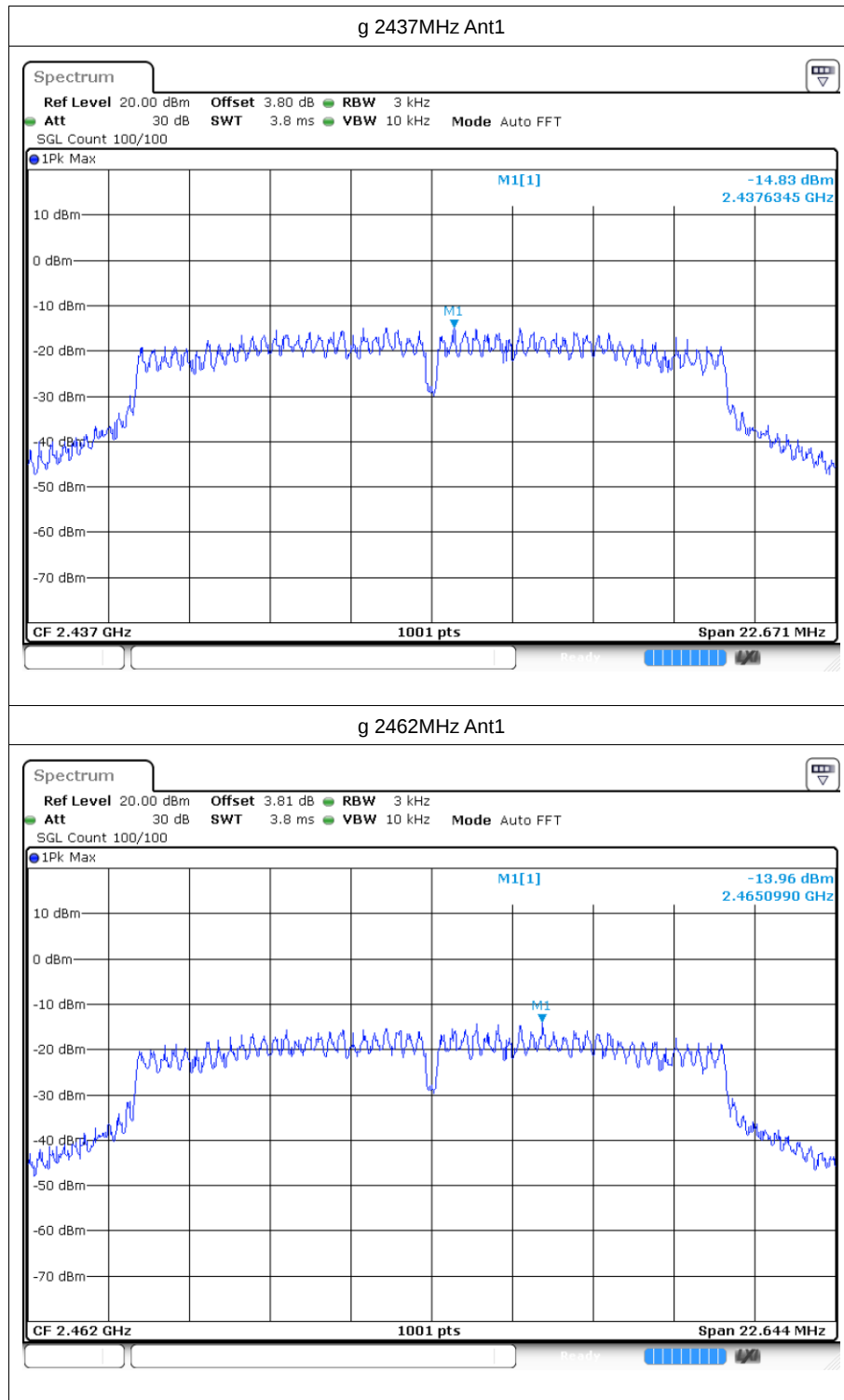
### 4.1 Test Result

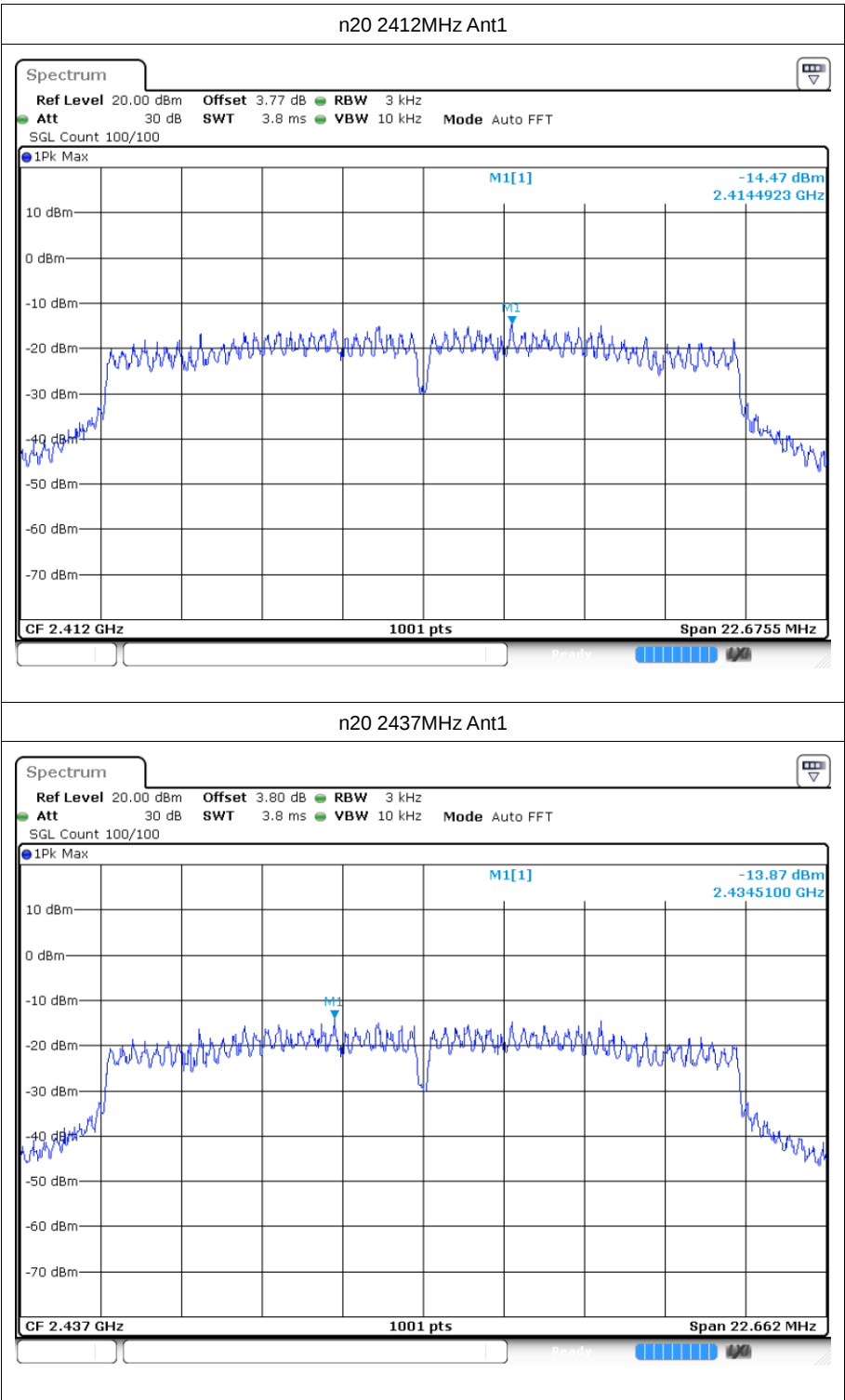
| Mode | Frequency (MHz) | Antenna | Conducted PSD<br>(dBm/3-100kHz) | Limit<br>(dBm/3kHz) | Verdict |
|------|-----------------|---------|---------------------------------|---------------------|---------|
| b    | 2412            | Ant1    | -10.17                          | $\leq 8$            | Pass    |
| b    | 2437            | Ant1    | -9.91                           | $\leq 8$            | Pass    |
| b    | 2462            | Ant1    | -10.04                          | $\leq 8$            | Pass    |
| g    | 2412            | Ant1    | -15.09                          | $\leq 8$            | Pass    |
| g    | 2437            | Ant1    | -14.83                          | $\leq 8$            | Pass    |
| g    | 2462            | Ant1    | -13.96                          | $\leq 8$            | Pass    |
| n20  | 2412            | Ant1    | -14.47                          | $\leq 8$            | Pass    |
| n20  | 2437            | Ant1    | -13.87                          | $\leq 8$            | Pass    |
| n20  | 2462            | Ant1    | -13.45                          | $\leq 8$            | Pass    |

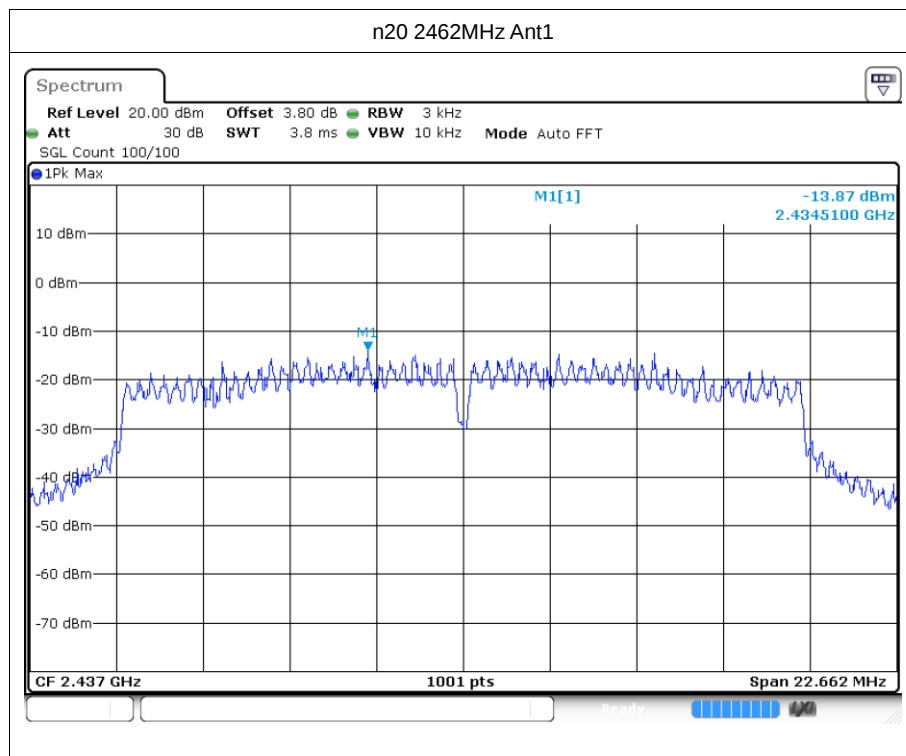
## 4.2 Test Graphs











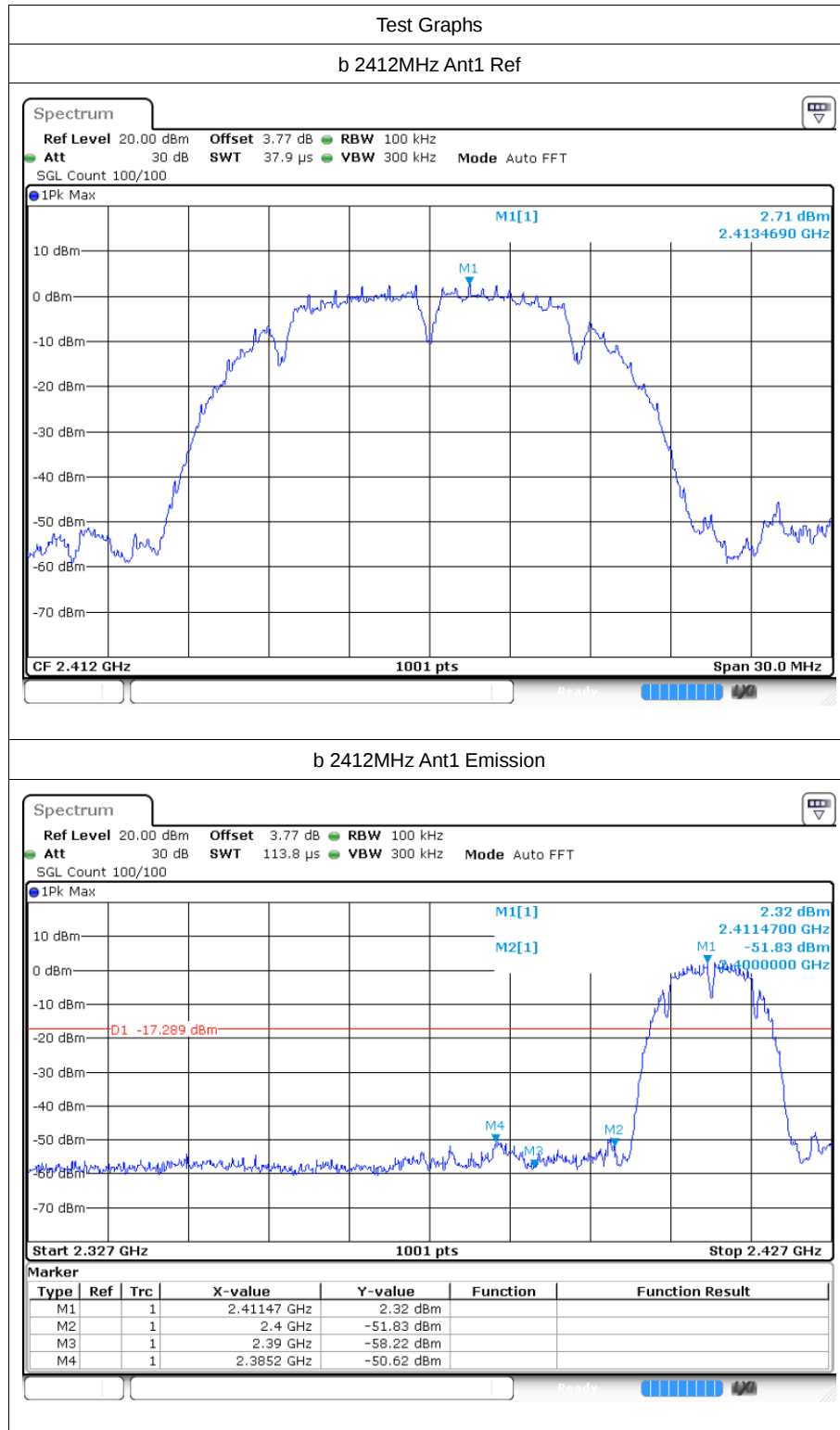


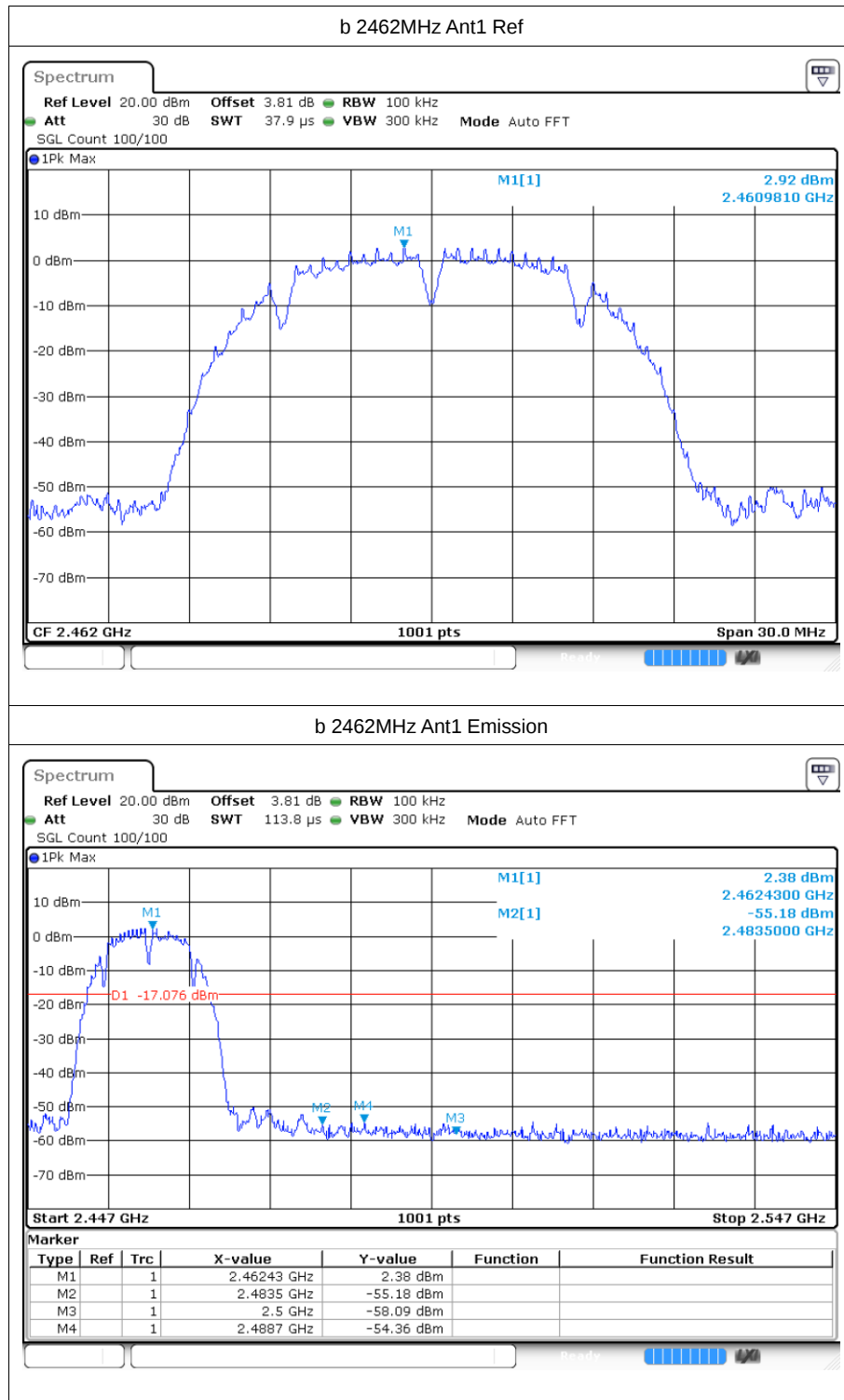
## 5 Band Edge

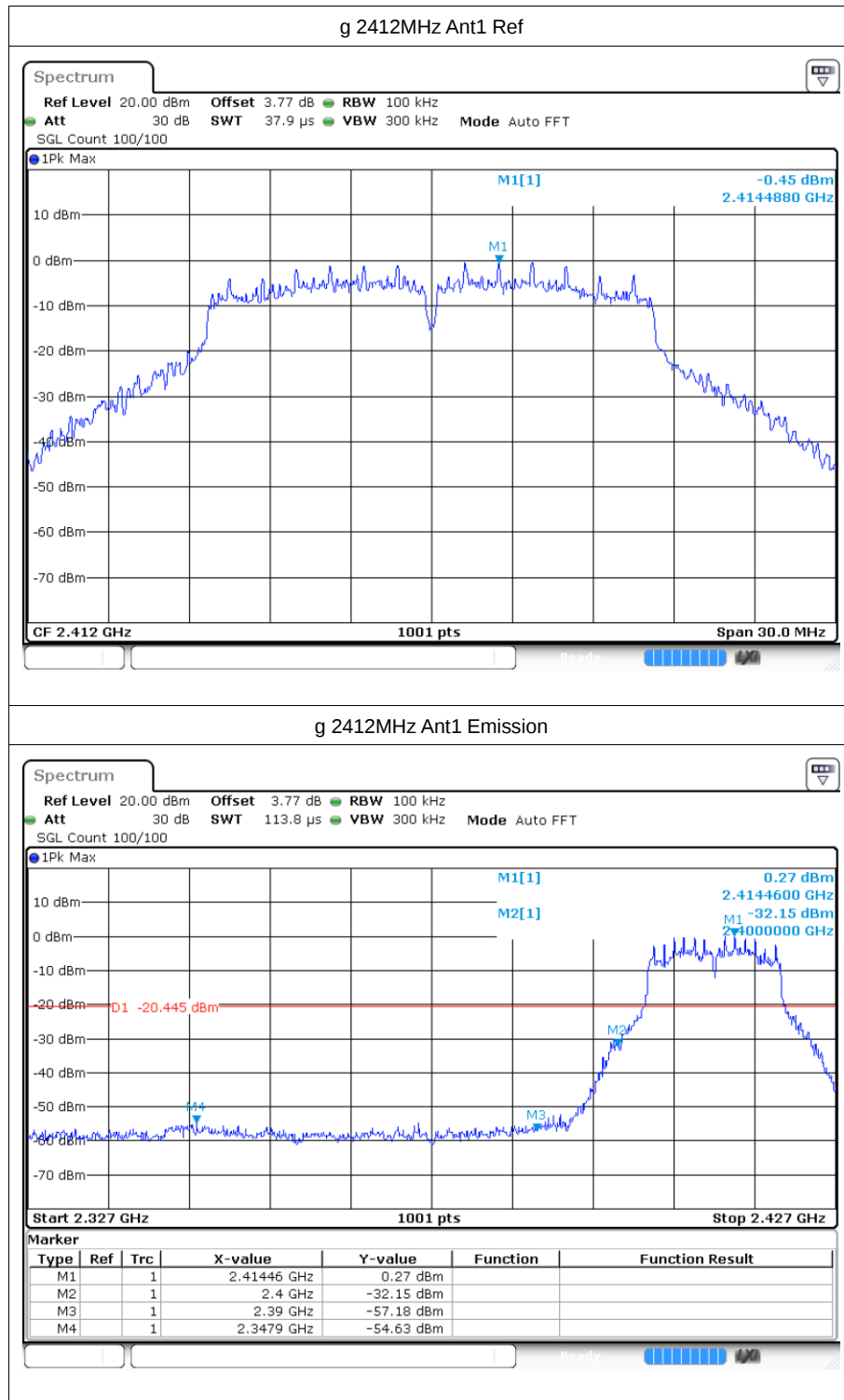
### 5.1 Test Result

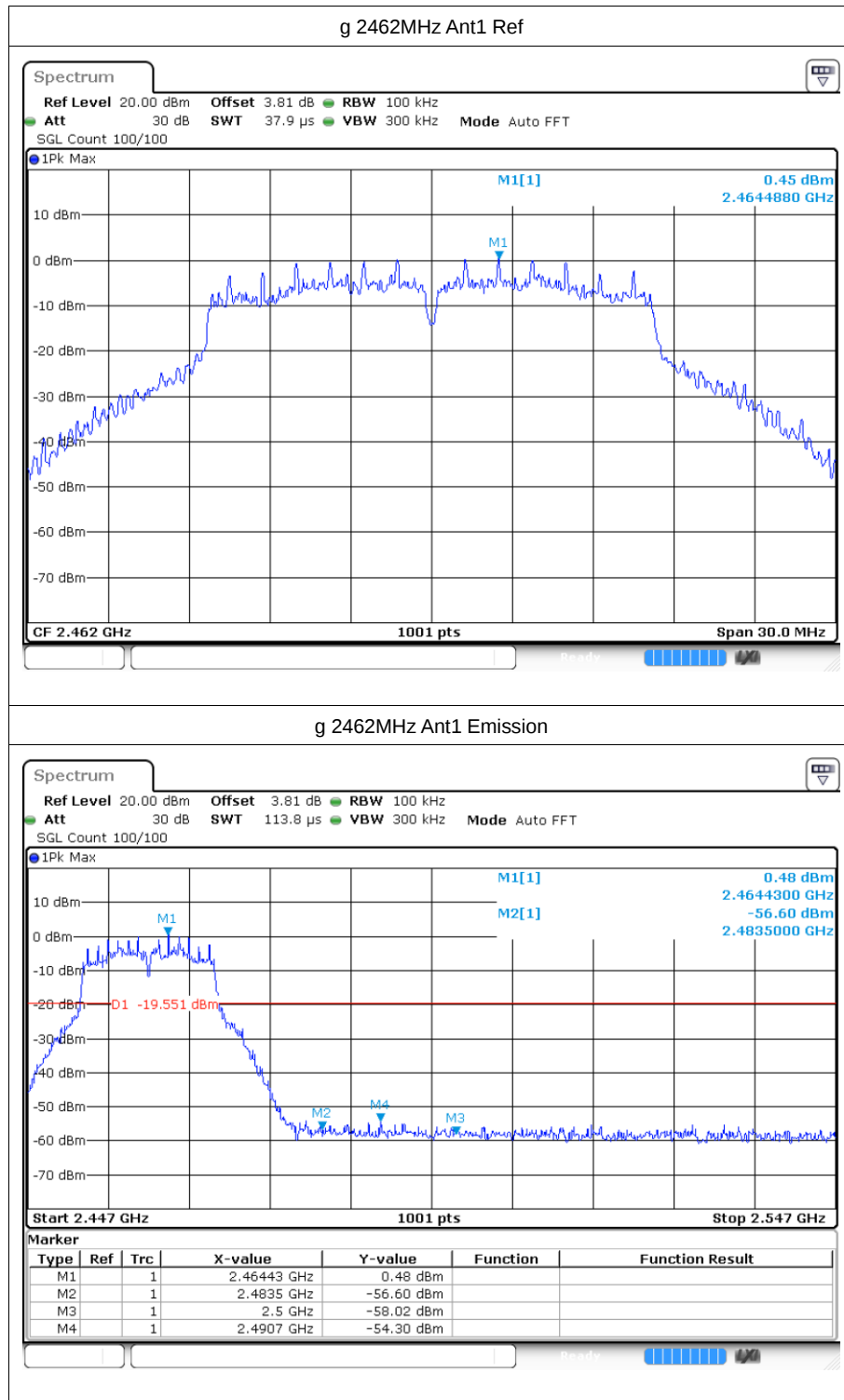
| Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|------|-----------------|---------|-----------------|-------------|---------|
| b    | 2412            | Ant1    | -53.32          | -20         | -53.32  |
| b    | 2462            | Ant1    | -57.27          | -20         | Pass    |
| g    | 2412            | Ant1    | -54.17          | -20         | Pass    |
| g    | 2462            | Ant1    | -54.74          | -20         | Pass    |
| n20  | 2412            | Ant1    | -54.12          | -20         | Pass    |
| n20  | 2462            | Ant1    | -54.17          | -20         | Pass    |

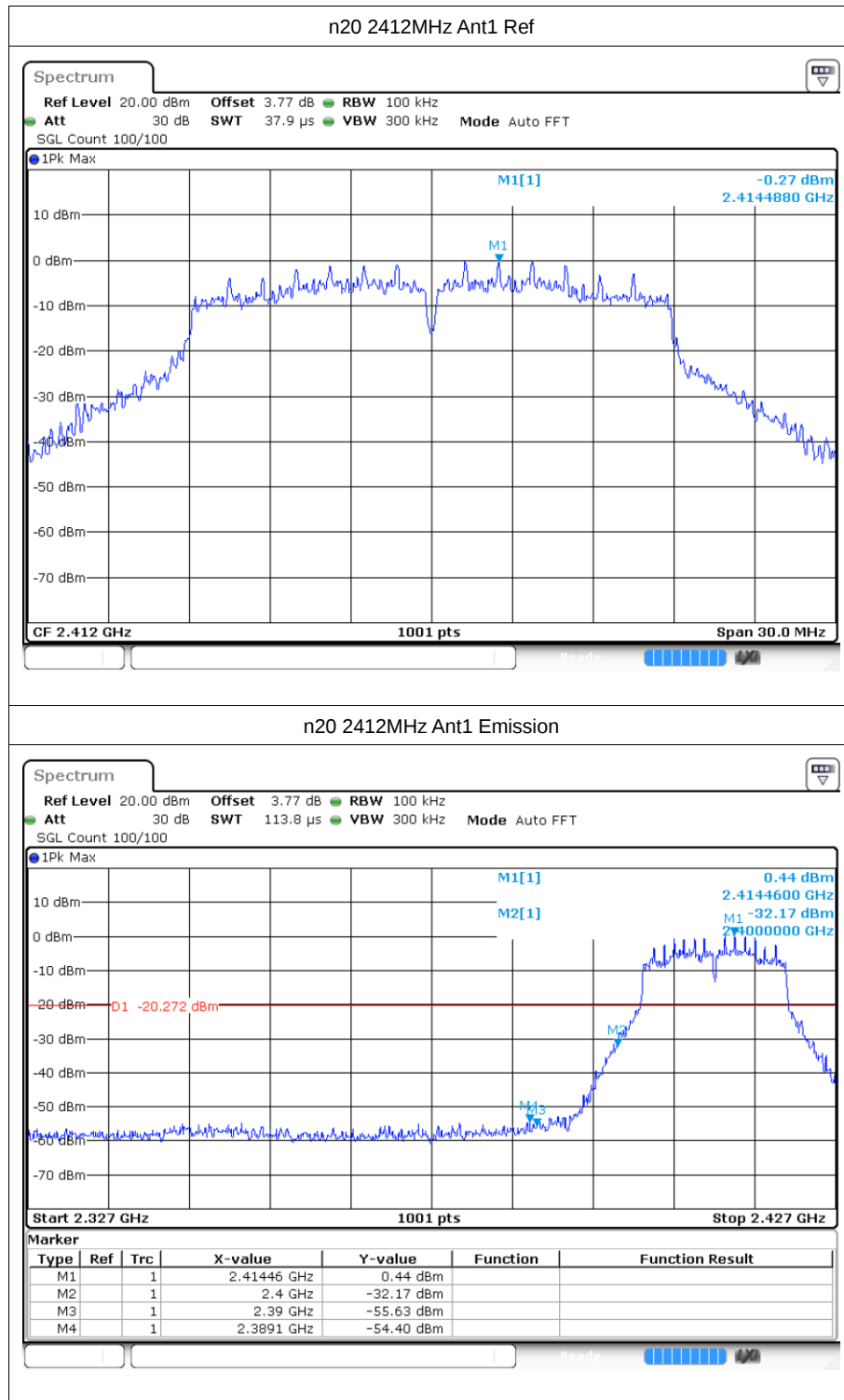
## 5.2 Test Graphs

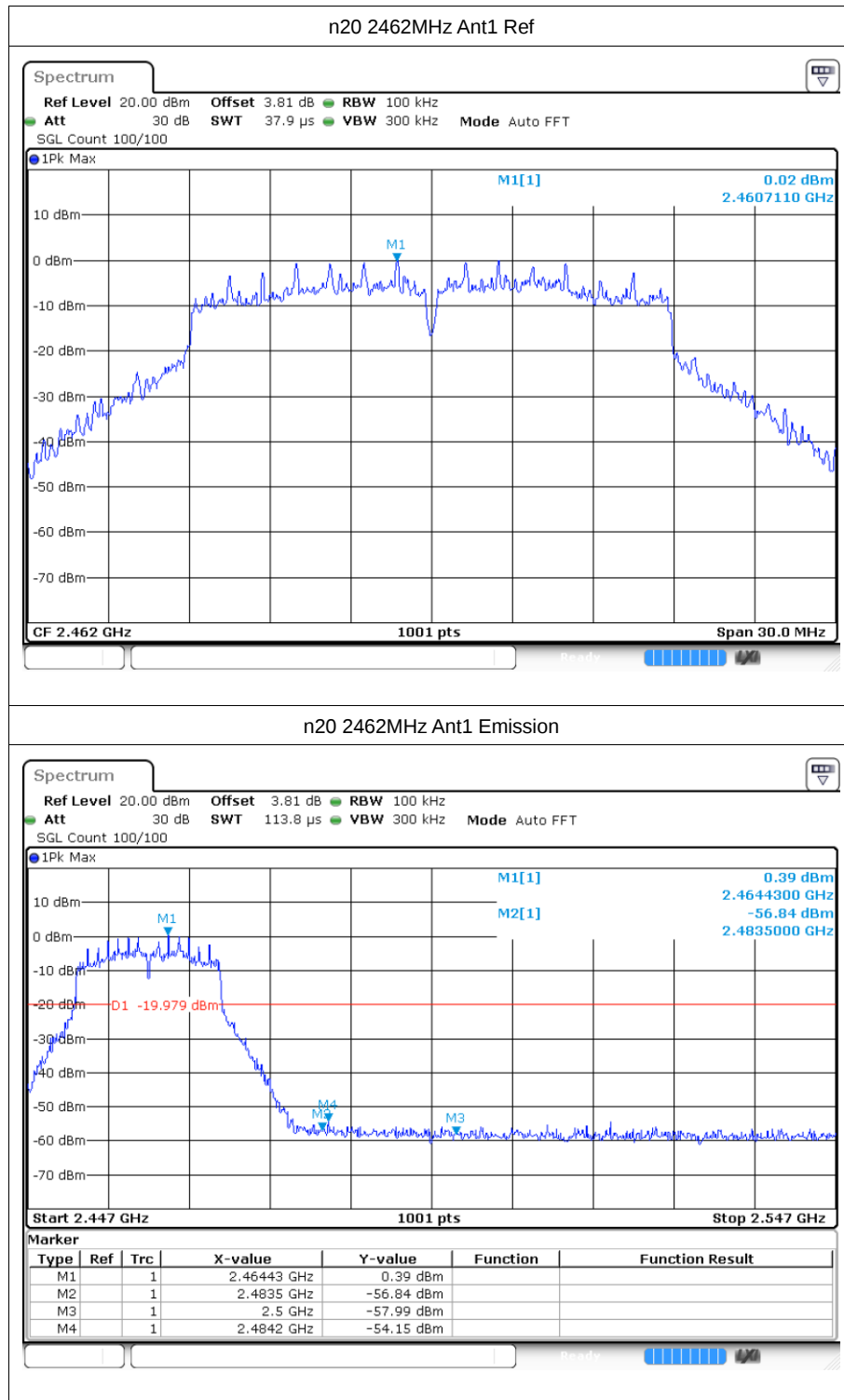












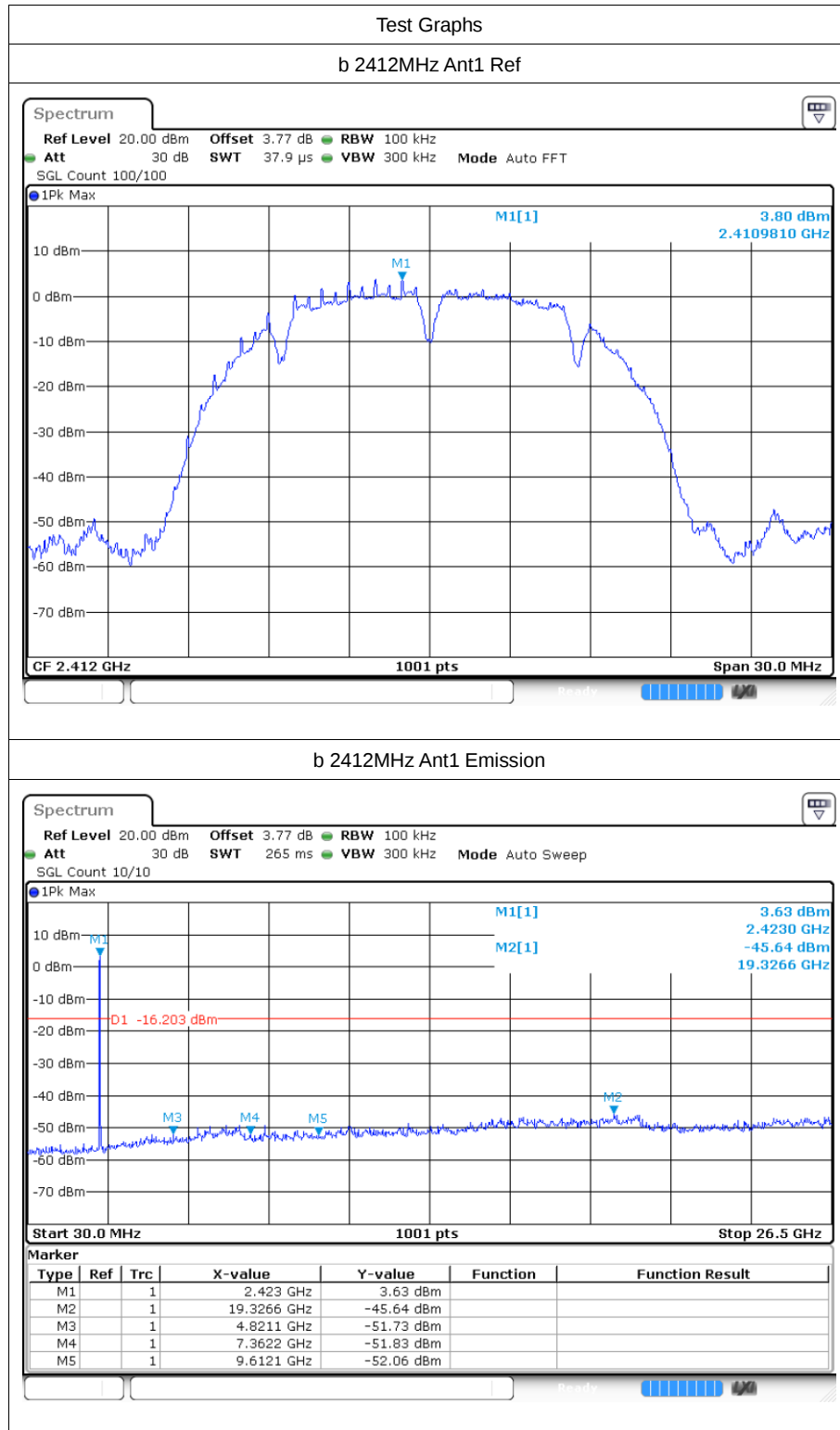


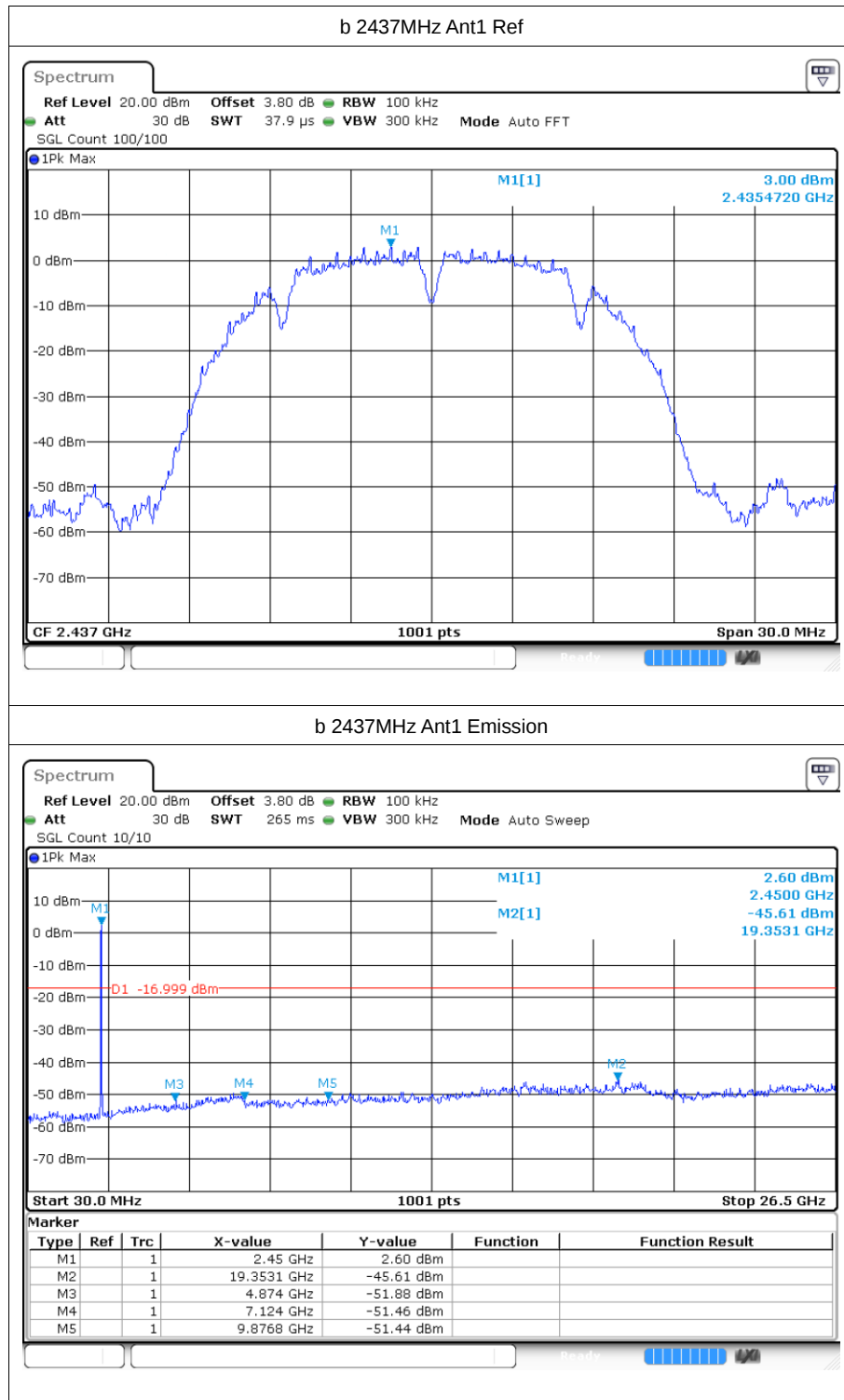
## 6 Conducted RF Spurious Emission

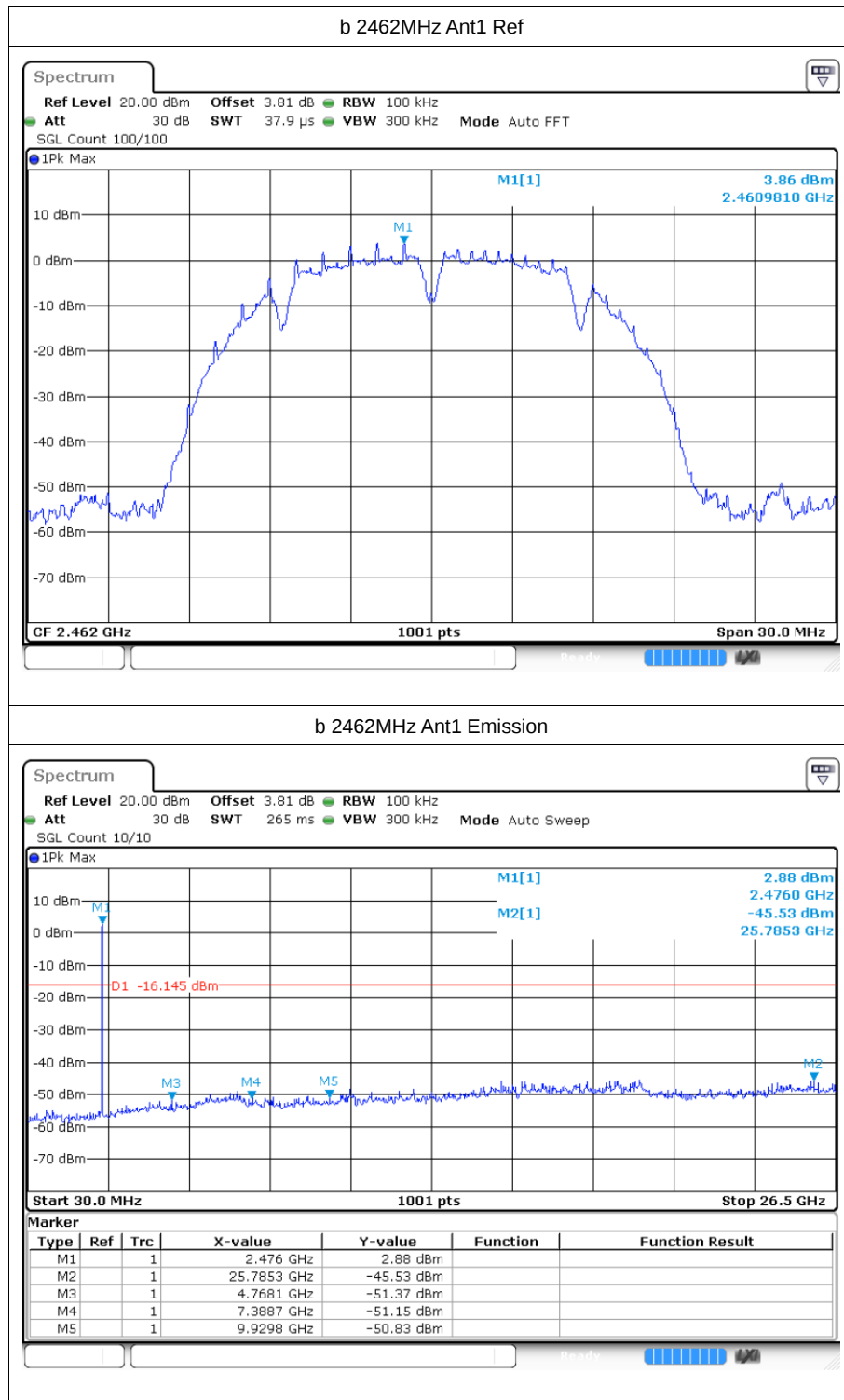
### 6.1 Test Result

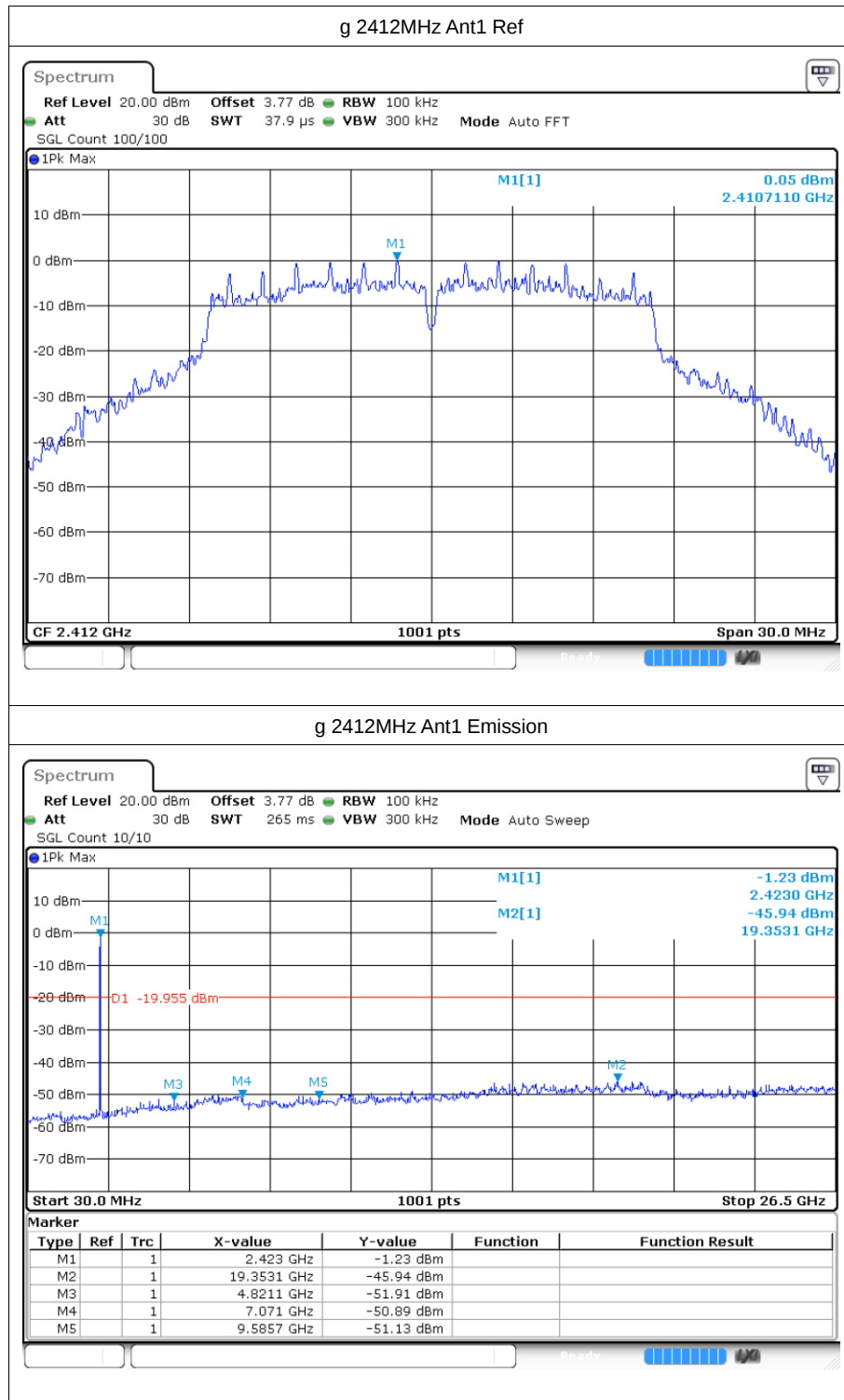
| Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|------|-----------------|---------|-----------------|-------------|---------|
| b    | 2412            | Ant1    | -49.44          | -20         | Pass    |
| b    | 2437            | Ant1    | -48.6           | -20         | Pass    |
| b    | 2462            | Ant1    | -49.39          | -20         | Pass    |
| g    | 2412            | Ant1    | -45.99          | -20         | Pass    |
| g    | 2437            | Ant1    | -45.92          | -20         | Pass    |
| g    | 2462            | Ant1    | -46.1           | -20         | Pass    |
| n20  | 2412            | Ant1    | -45.47          | -20         | Pass    |
| n20  | 2437            | Ant1    | -45.41          | -20         | Pass    |
| n20  | 2462            | Ant1    | -46.05          | -20         | Pass    |

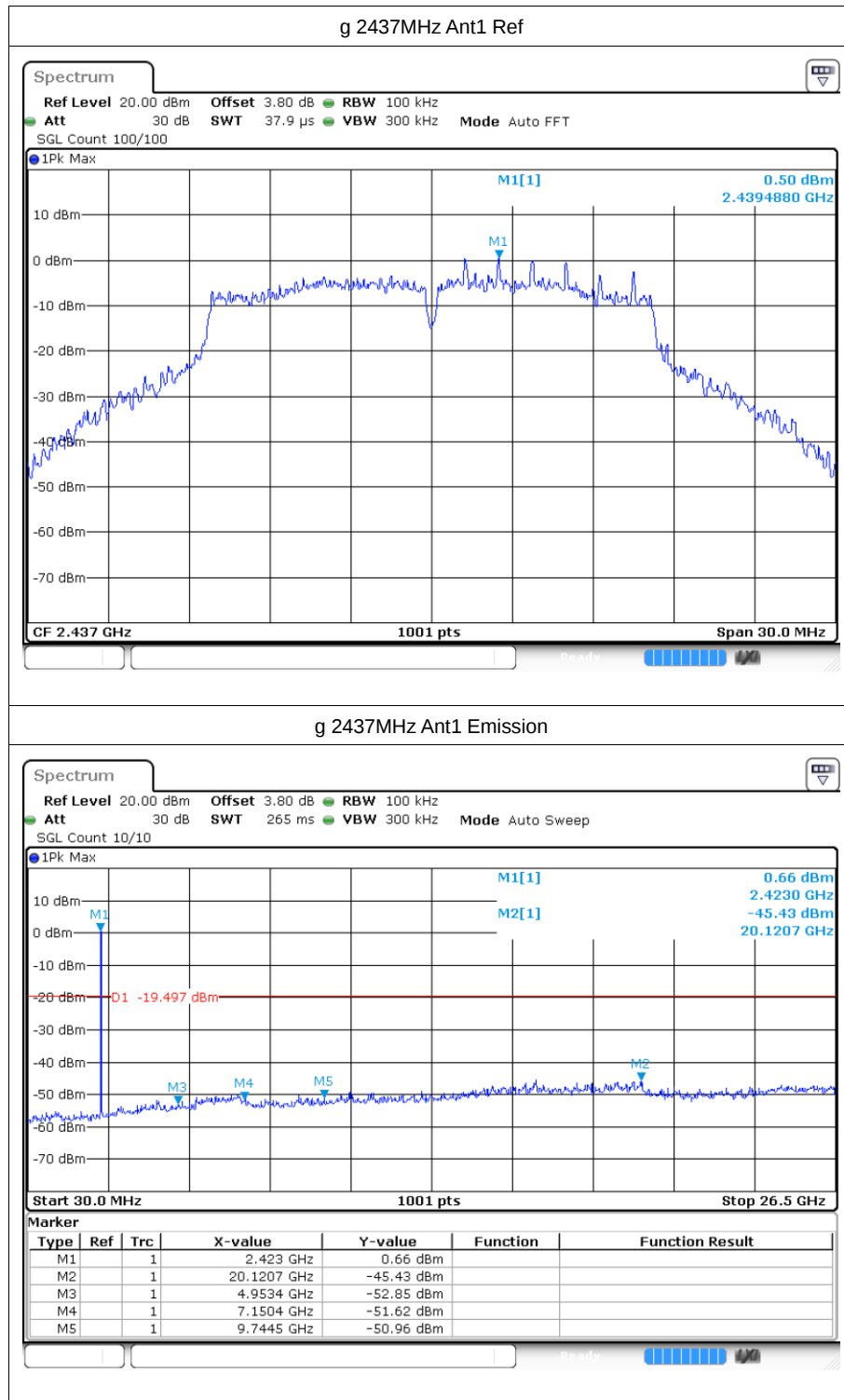
## 6.2 Test Graphs

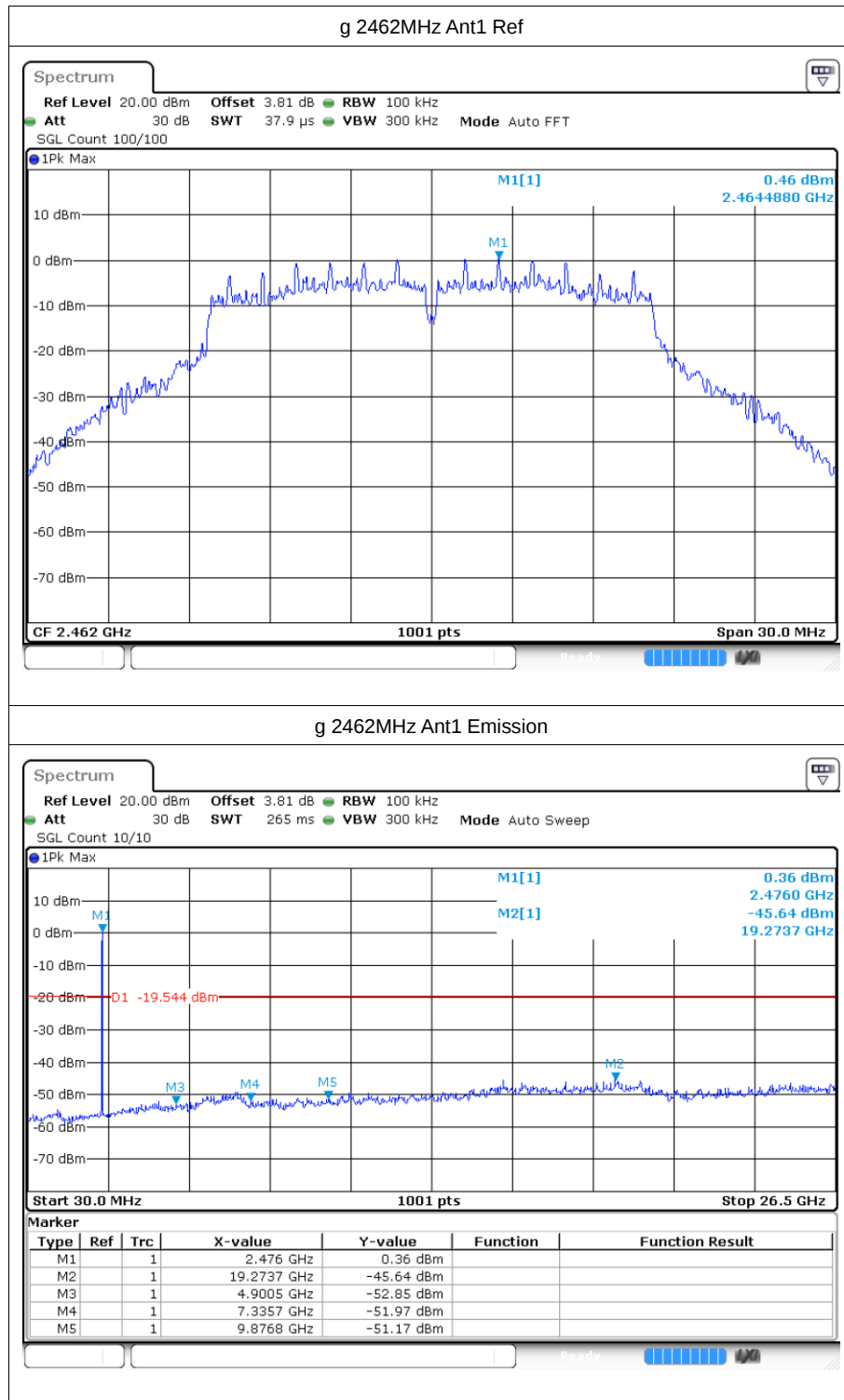


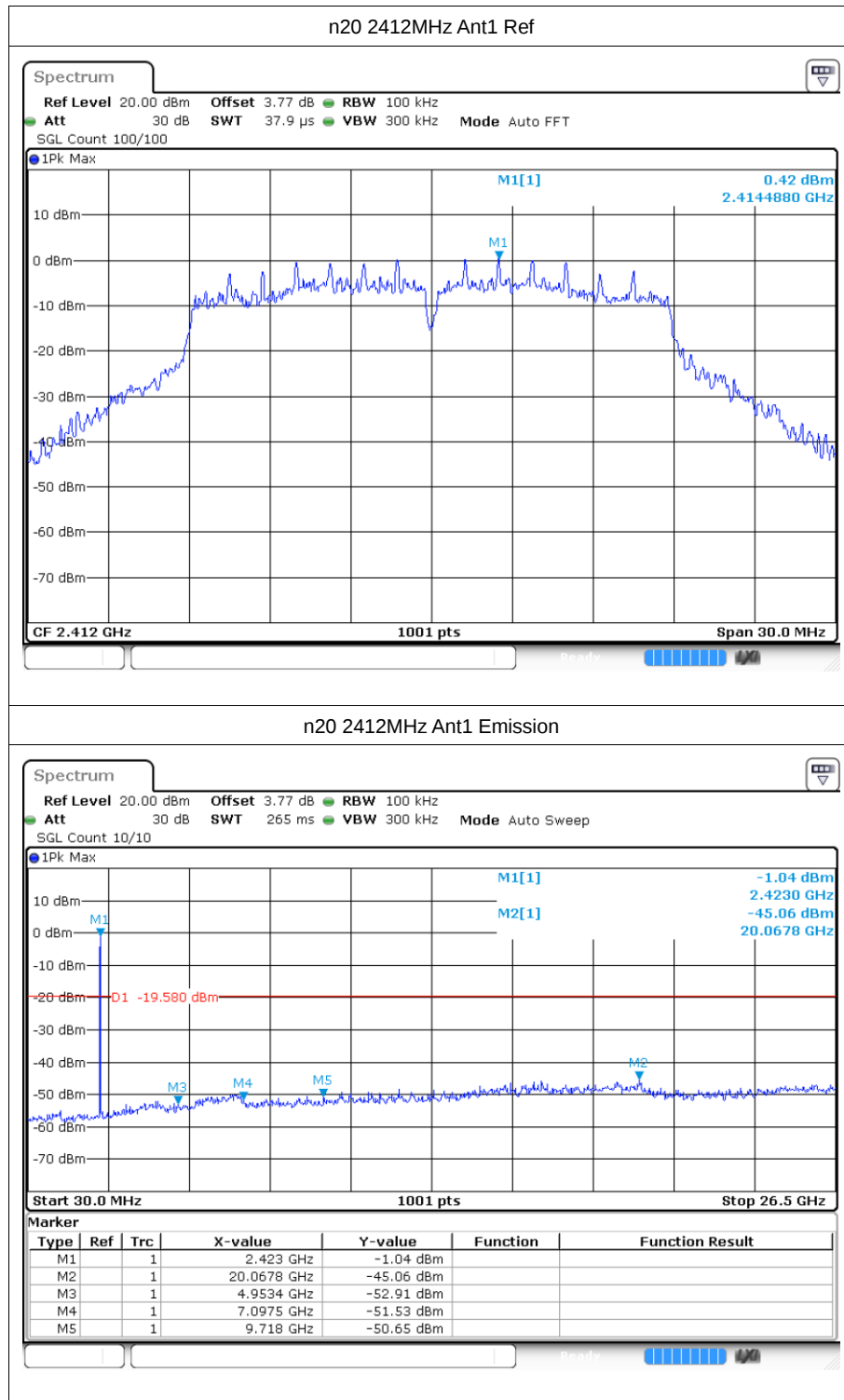


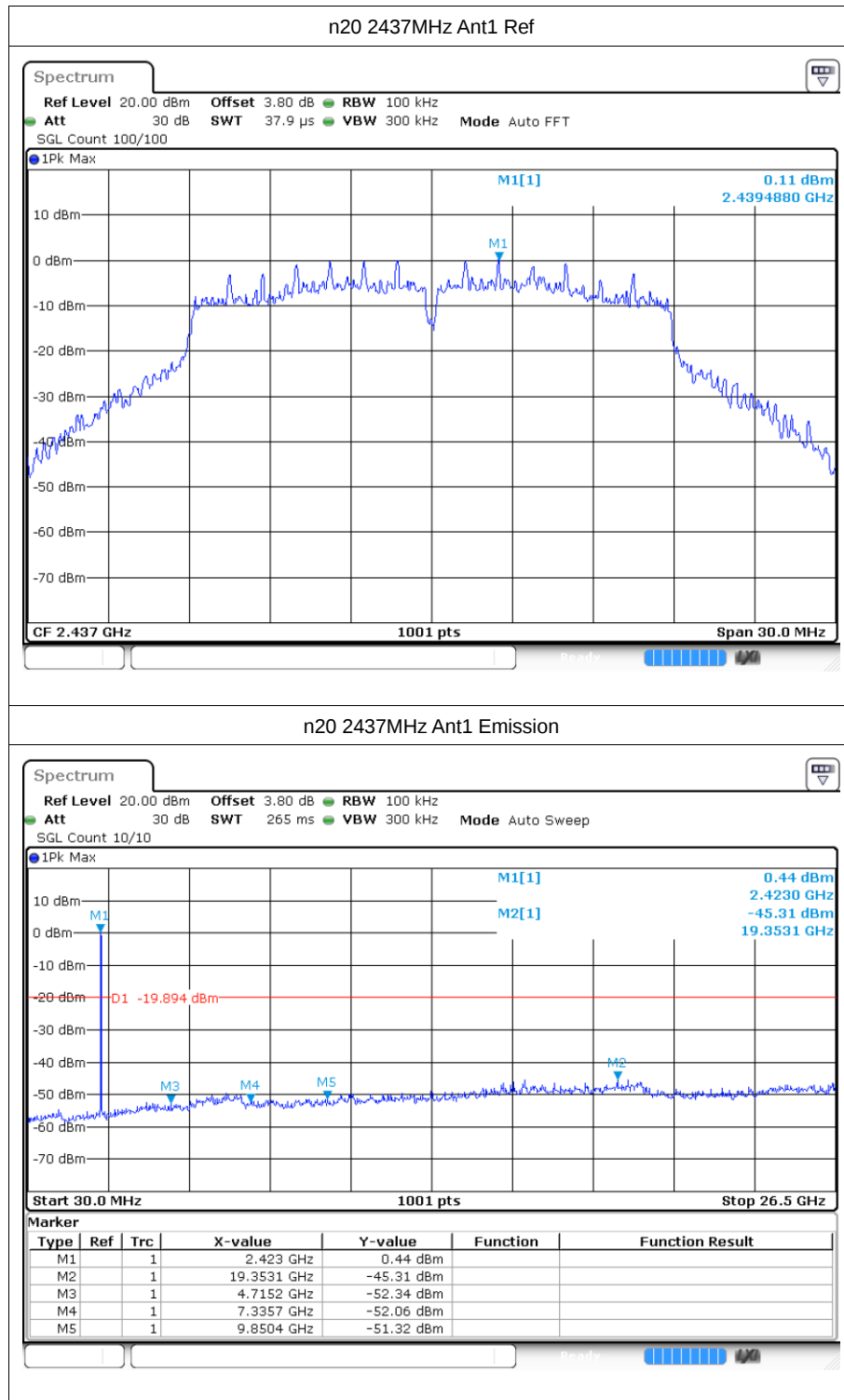


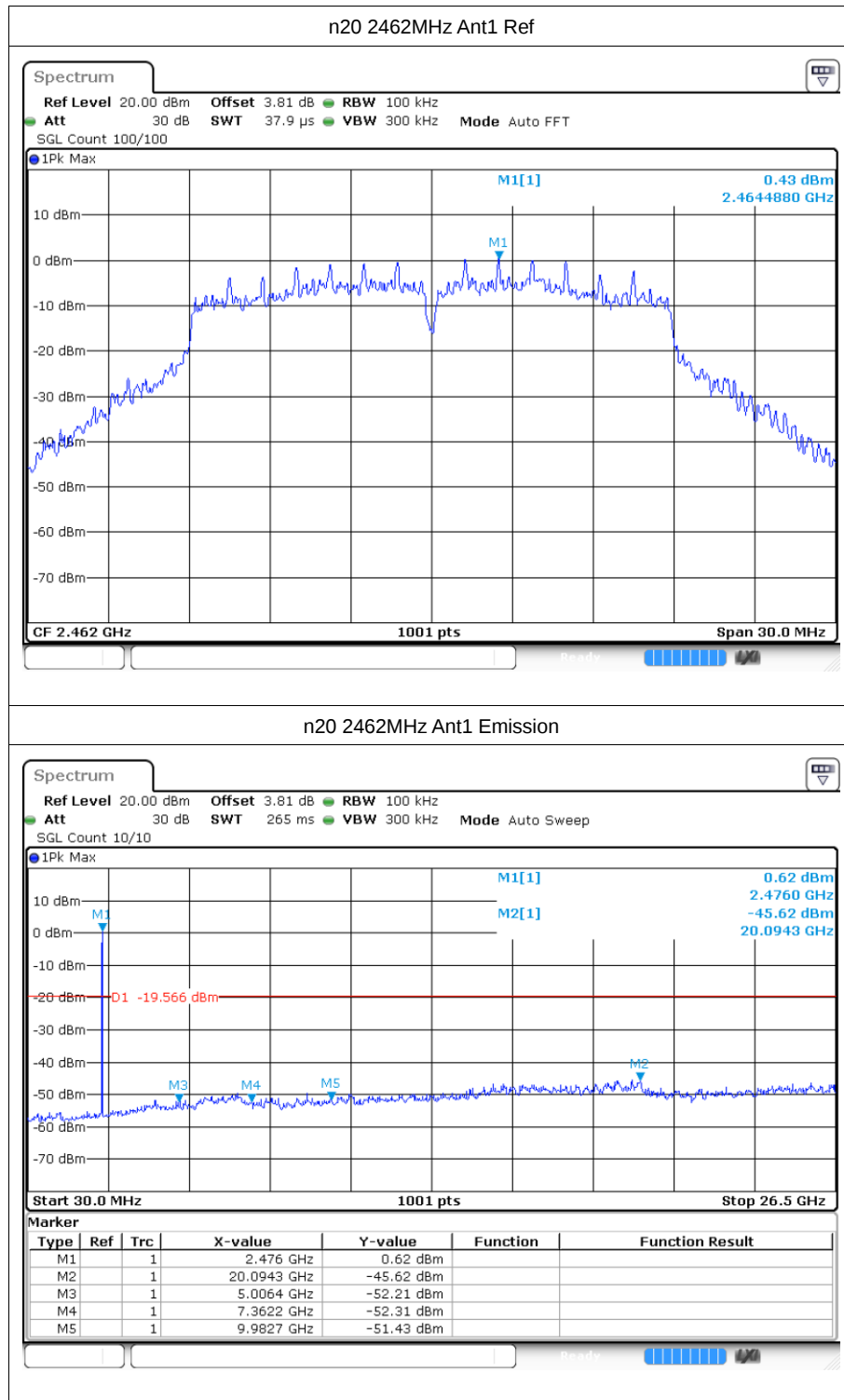














## 7 Restrict Band

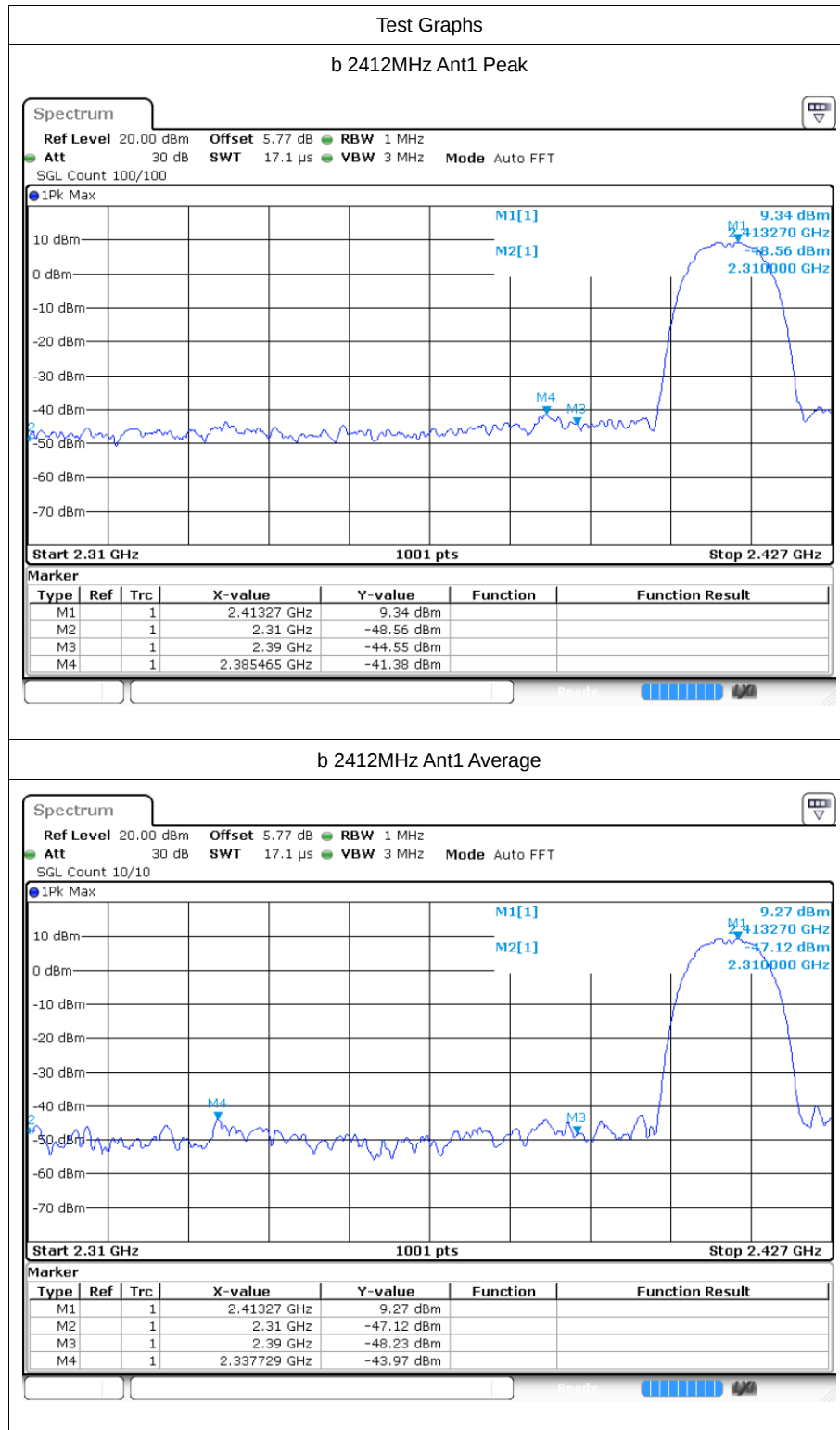
### 7.1 Test Result

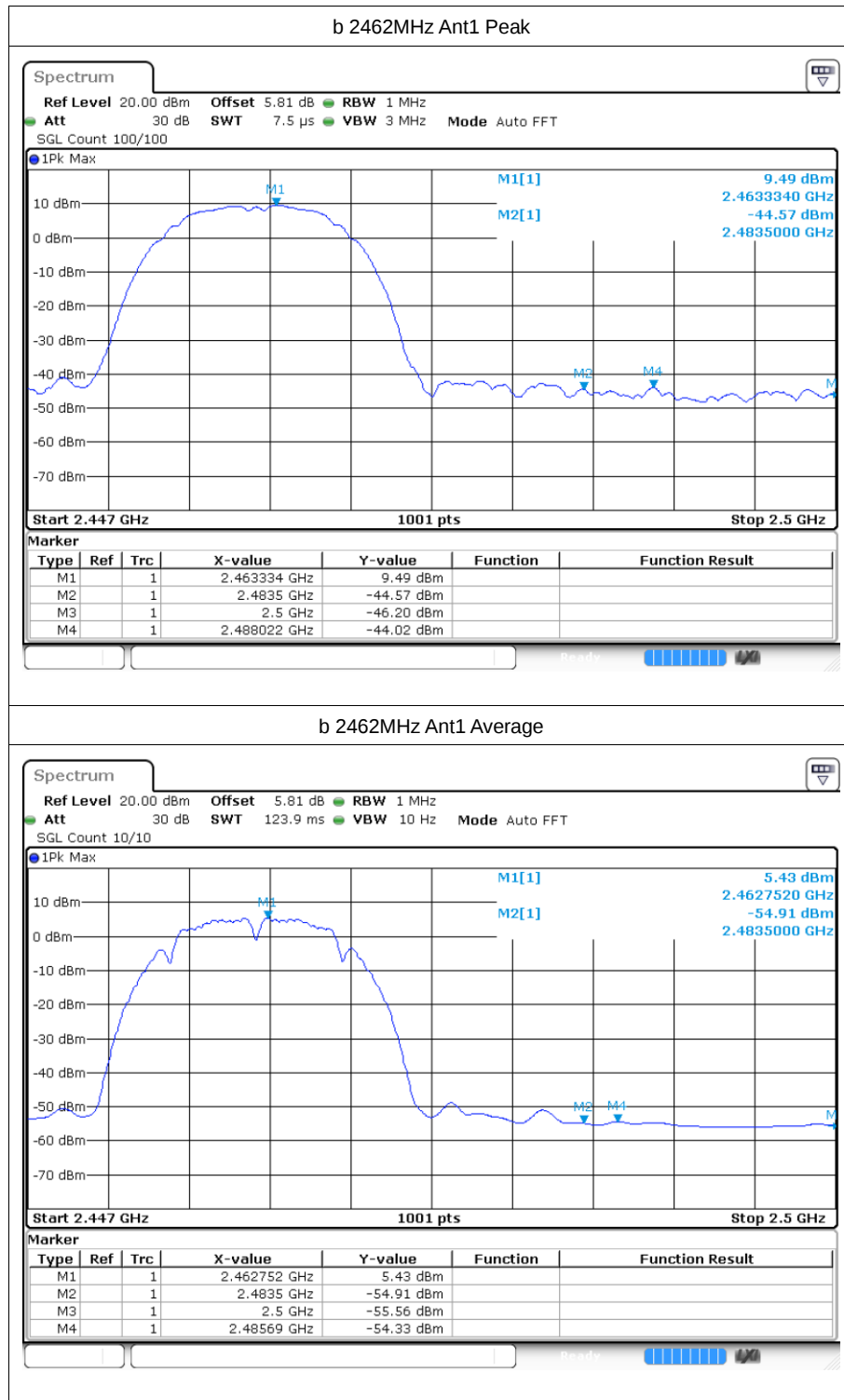
| Mode | Frequency (MHz) | Antenna | Spur Freq (MHz) | Power (dBm) | Gain (dBi) | E (dBuV/m) | Detector | Limit (dBuV/m) | Verdict |
|------|-----------------|---------|-----------------|-------------|------------|------------|----------|----------------|---------|
| b    | 2412            | Ant1    | 2310            | -48.56      | 2          | 48.7       | Peak     | 74             | Pass    |
| b    | 2412            | Ant1    | 2310            | -47.11      | 2          | 50.15      | Average  | 54             | Pass    |
| b    | 2412            | Ant1    | 2385.465        | -41.38      | 2          | 55.88      | Peak     | 74             | Pass    |
| b    | 2412            | Ant1    | 2337.729        | -43.97      | 2          | 53.29      | Average  | 54             | Pass    |
| b    | 2412            | Ant1    | 2390            | -44.55      | 2          | 52.71      | Peak     | 74             | Pass    |
| b    | 2412            | Ant1    | 2390            | -48.22      | 2          | 49.04      | Average  | 54             | Pass    |
| b    | 2462            | Ant1    | 2483.5          | -44.57      | 2          | 52.69      | Peak     | 74             | 52.69   |
| b    | 2462            | Ant1    | 2483.5          | -54.91      | 2          | 42.35      | Average  | 54             | Pass    |
| b    | 2462            | Ant1    | 2488.022        | -44.01      | 2          | 53.25      | Peak     | 74             | Pass    |
| b    | 2462            | Ant1    | 2485.69         | -54.32      | 2          | 42.94      | Average  | 54             | Pass    |
| b    | 2462            | Ant1    | 2500            | -46.2       | 2          | 51.06      | Peak     | 74             | Pass    |
| b    | 2462            | Ant1    | 2500            | -55.56      | 2          | 41.7       | Average  | 54             | Pass    |
| g    | 2412            | Ant1    | 2310            | -47.13      | 2          | 50.13      | Peak     | 74             | Pass    |
| g    | 2412            | Ant1    | 2310            | -54.99      | 2          | 42.27      | Average  | 54             | Pass    |
| g    | 2412            | Ant1    | 2341.824        | -44.5       | 2          | 52.76      | Peak     | 74             | Pass    |
| g    | 2412            | Ant1    | 2389.56         | -53.14      | 2          | 44.12      | Average  | 54             | Pass    |
| g    | 2412            | Ant1    | 2390            | -45.16      | 2          | 52.71      | Peak     | 74             | Pass    |
| g    | 2412            | Ant1    | 2390            | -53.31      | 2          | 43.95      | Average  | 54             | Pass    |
| g    | 2462            | Ant1    | 2483.5          | -45.27      | 2          | 51.99      | Peak     | 74             | Pass    |
| g    | 2462            | Ant1    | 2483.5          | -53.52      | 2          | 43.74      | Average  | 54             | Pass    |
| g    | 2462            | Ant1    | 2488.022        | -43.28      | 2          | 53.98      | Peak     | 74             | Pass    |
| g    | 2462            | Ant1    | 2484.842        | -53.13      | 2          | 44.13      | Average  | 54             | Pass    |
| g    | 2462            | Ant1    | 2500            | -47.36      | 2          | 51.06      | Peak     | 74             | Pass    |
| g    | 2462            | Ant1    | 2500            | -54.56      | 2          | 42.7       | Average  | 54             | Pass    |
| n20  | 2412            | Ant1    | 2310            | -46.73      | 2          | 50.53      | Peak     | 74             | Pass    |
| n20  | 2412            | Ant1    | 2310            | -55.44      | 2          | 41.82      | Average  | 54             | Pass    |
| n20  | 2412            | Ant1    | 2341.356        | -43.41      | 2          | 53.85      | Peak     | 74             | Pass    |
| n20  | 2412            | Ant1    | 2389.911        | -52.66      | 2          | 44.6       | Average  | 54             | Pass    |
| n20  | 2412            | Ant1    | 2390            | -46.58      | 2          | 50.68      | Peak     | 74             | Pass    |
| n20  | 2412            | Ant1    | 2390            | -52.35      | 2          | 44.91      | Average  | 54             | Pass    |
| n20  | 2462            | Ant1    | 2483.5          | -46.66      | 2          | 50.6       | Peak     | 74             | Pass    |
| n20  | 2462            | Ant1    | 2483.5          | -53.52      | 2          | 43.74      | Average  | 54             | Pass    |
| n20  | 2462            | Ant1    | 2493.11         | -44.43      | 2          | 52.83      | Peak     | 74             | Pass    |
| n20  | 2462            | Ant1    | 2483.729        | -53.36      | 2          | 43.9       | Average  | 54             | Pass    |

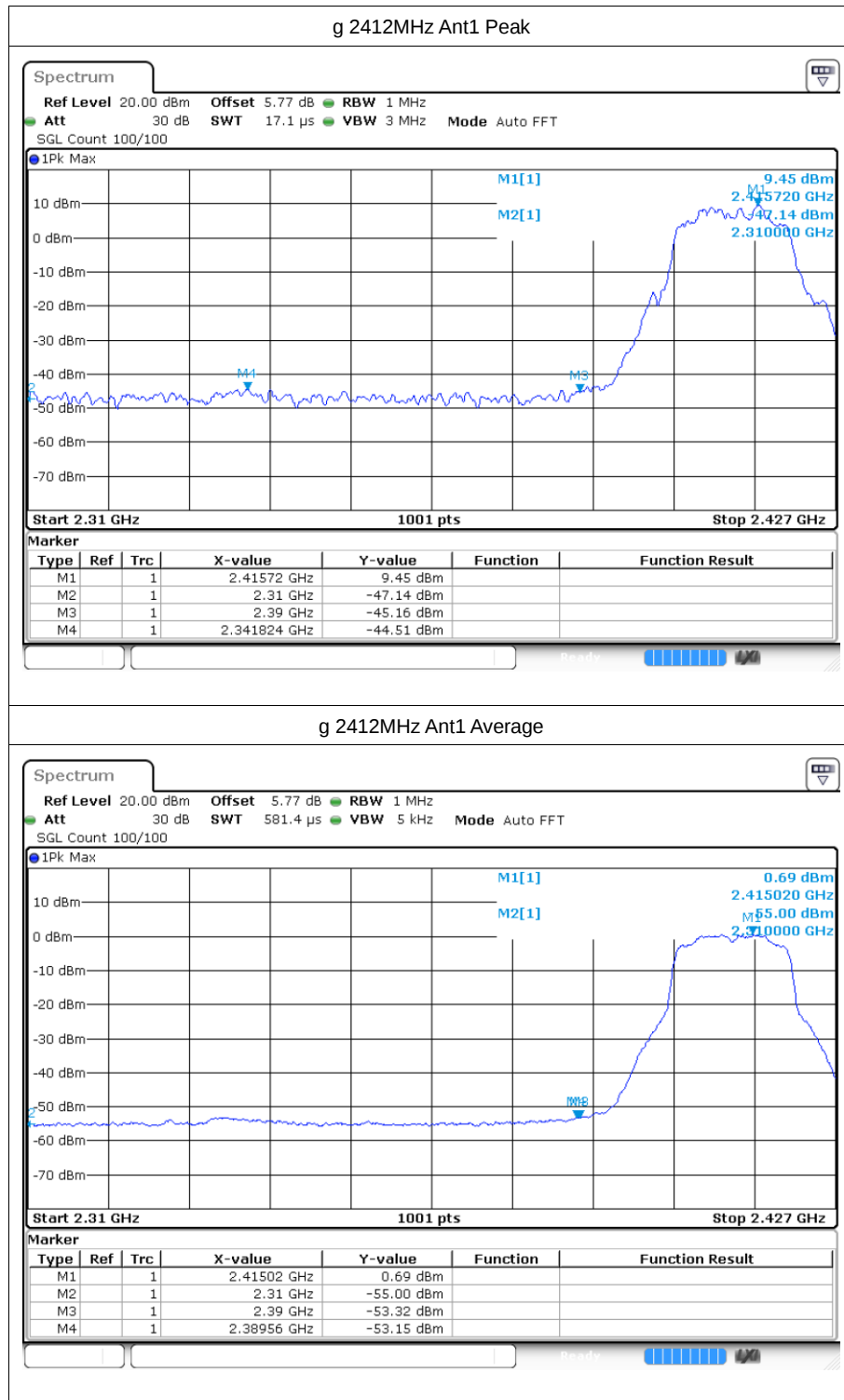


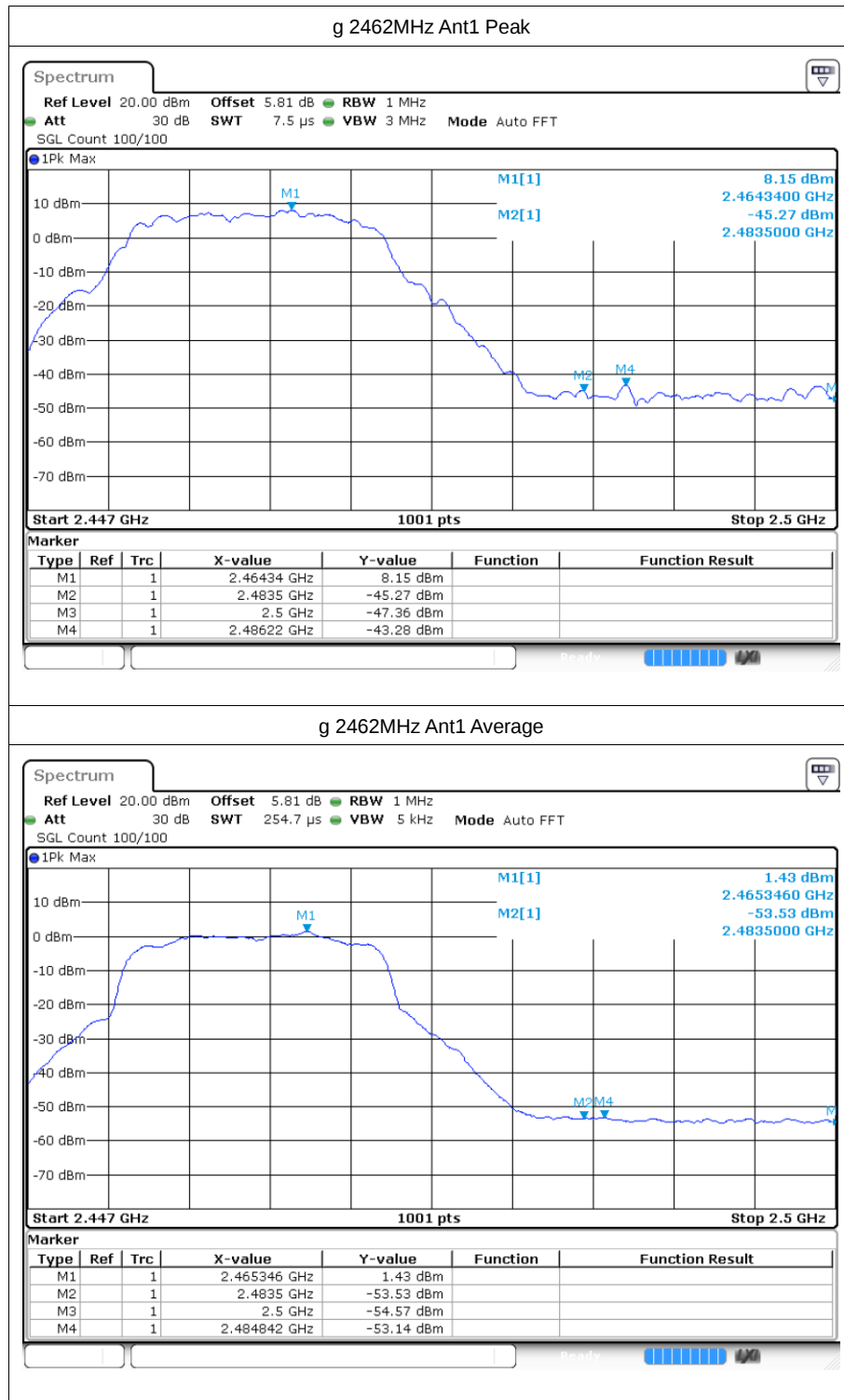
|     |      |      |      |        |   |       |         |    |      |
|-----|------|------|------|--------|---|-------|---------|----|------|
| n20 | 2462 | Ant1 | 2500 | -46.97 | 2 | 50.29 | Peak    | 74 | Pass |
| n20 | 2462 | Ant1 | 2500 | -54.23 | 2 | 43.03 | Average | 54 | Pass |

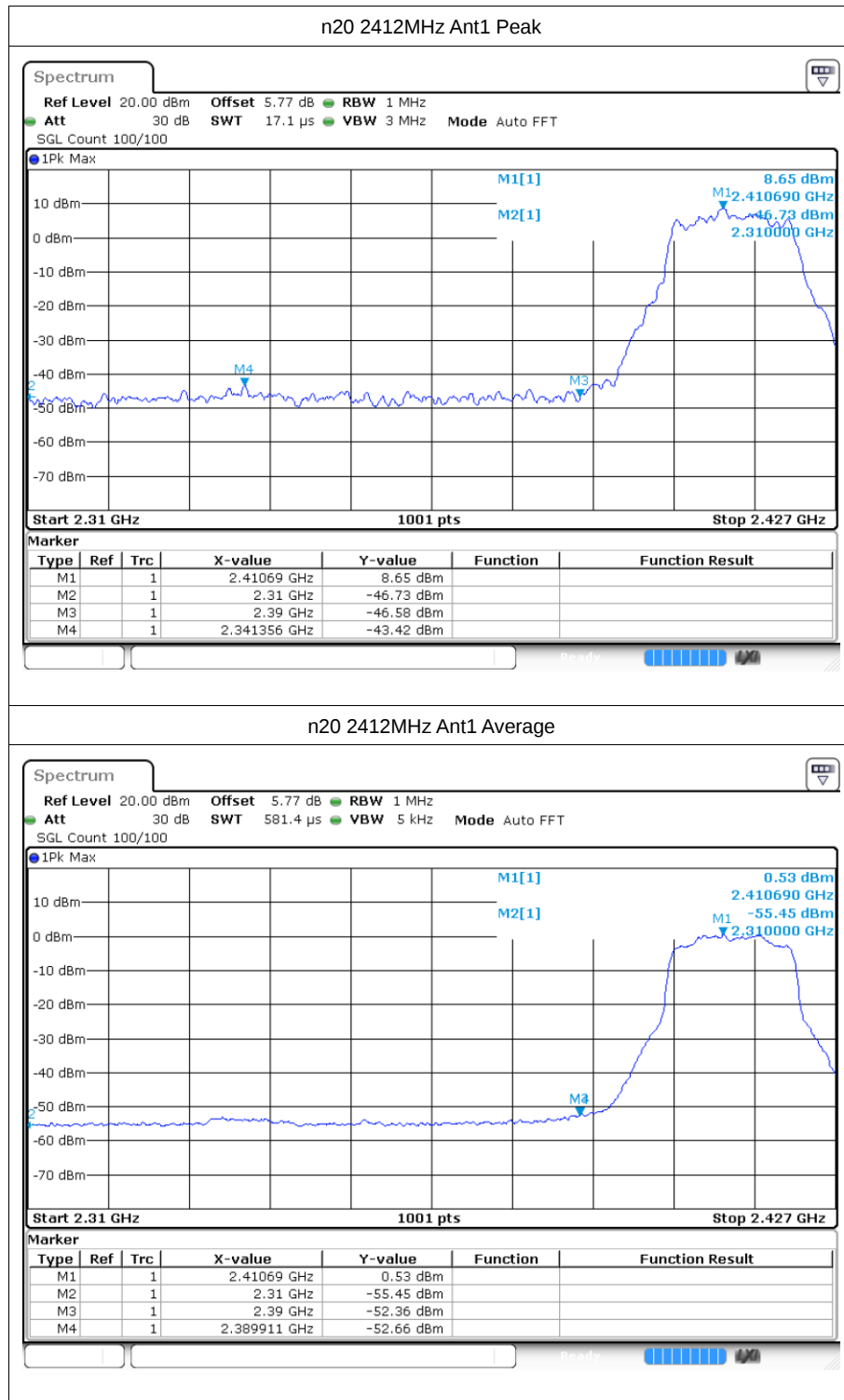
## 7.2 Test Graphs

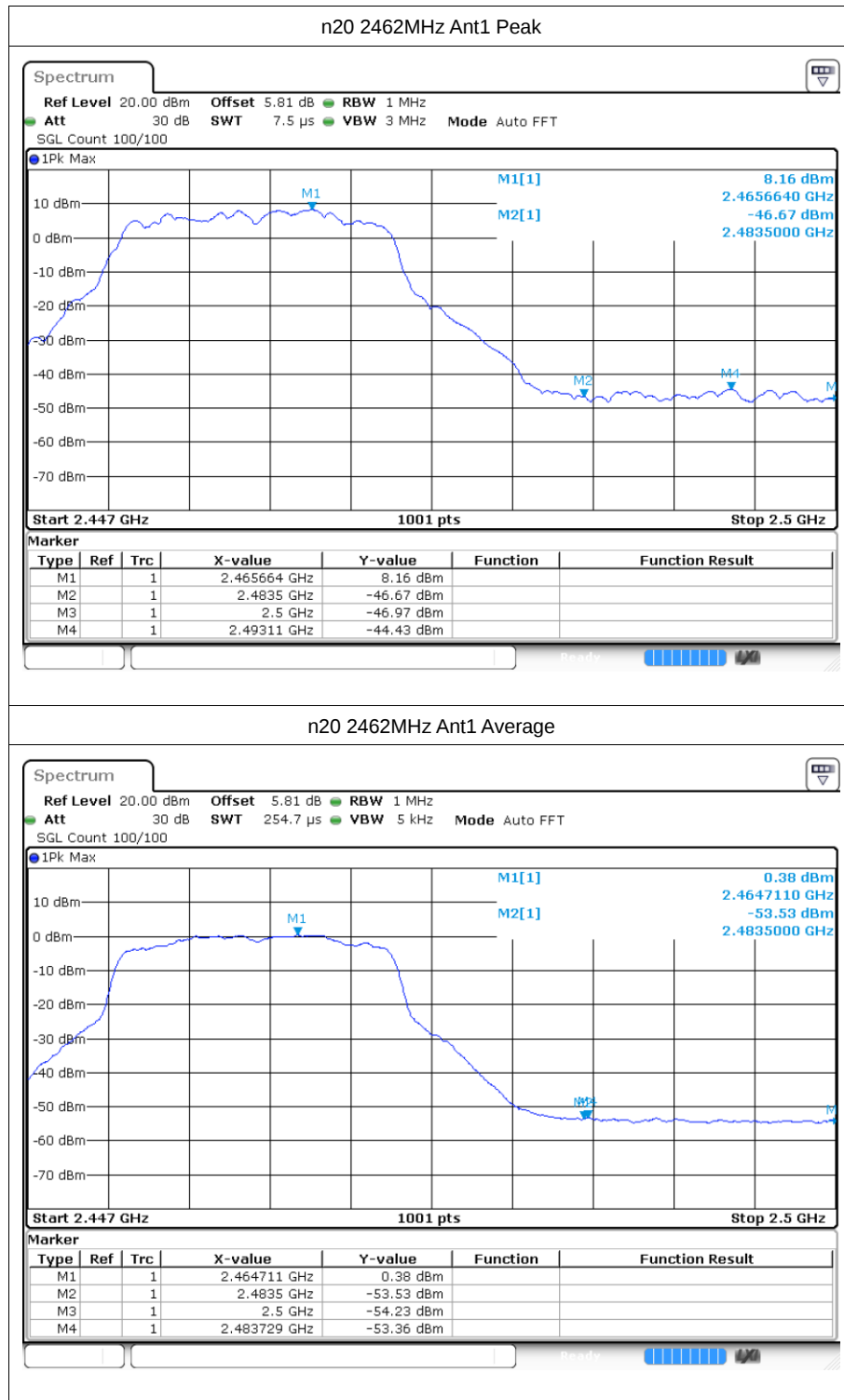












---The End---