



## Appendix C

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

Product Name: Wifi Camera

Trade Mark: N/A

Test Model: YH-A3

#### Environmental Conditions

|                    |           |
|--------------------|-----------|
| Temperature:       | 23.9° C   |
| Relative Humidity: | 51.3%     |
| ATM Pressure:      | 100.0 kPa |
| Test Engineer:     | Leon.yi   |
| Supervised by:     | Sean She  |



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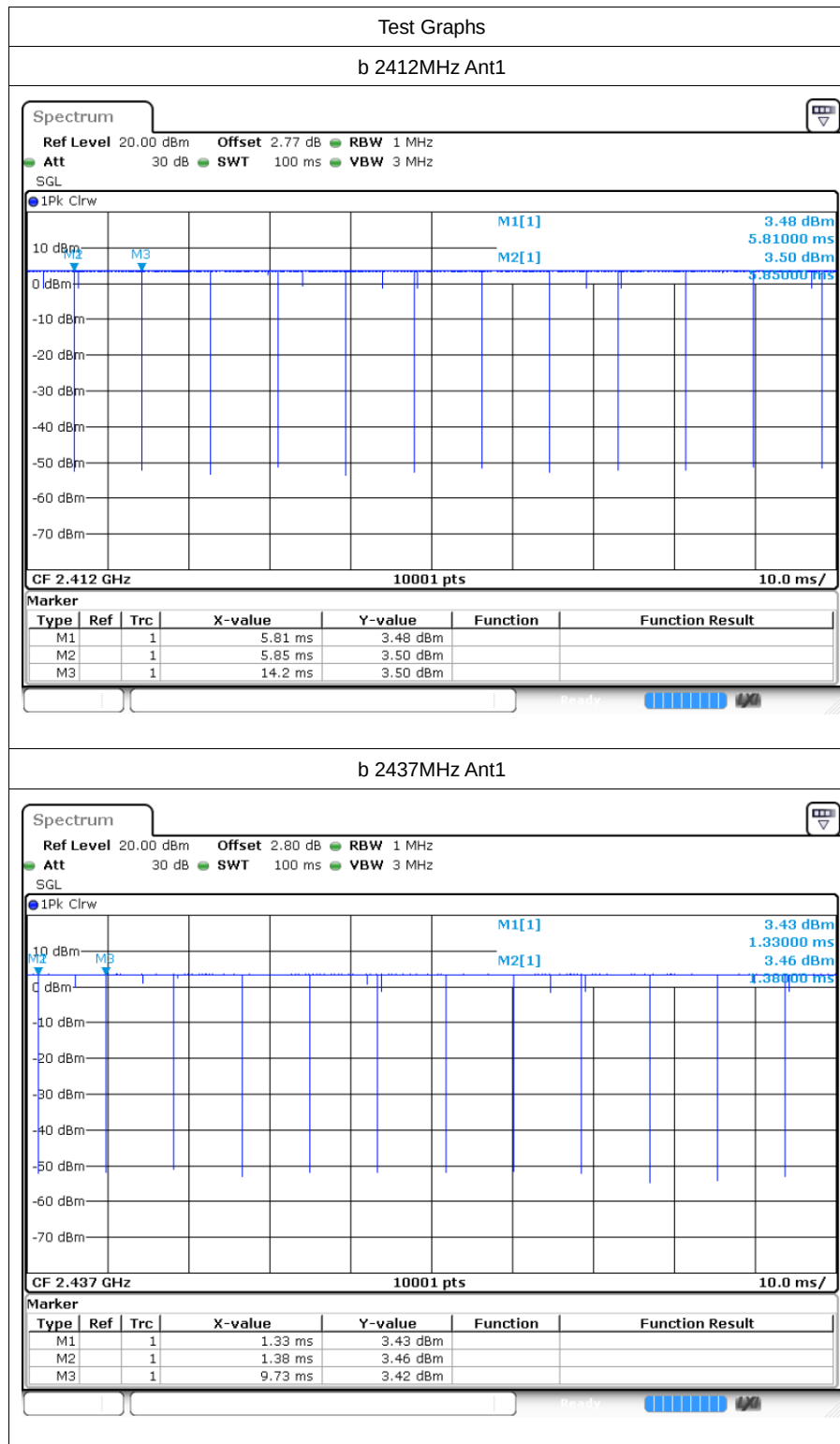


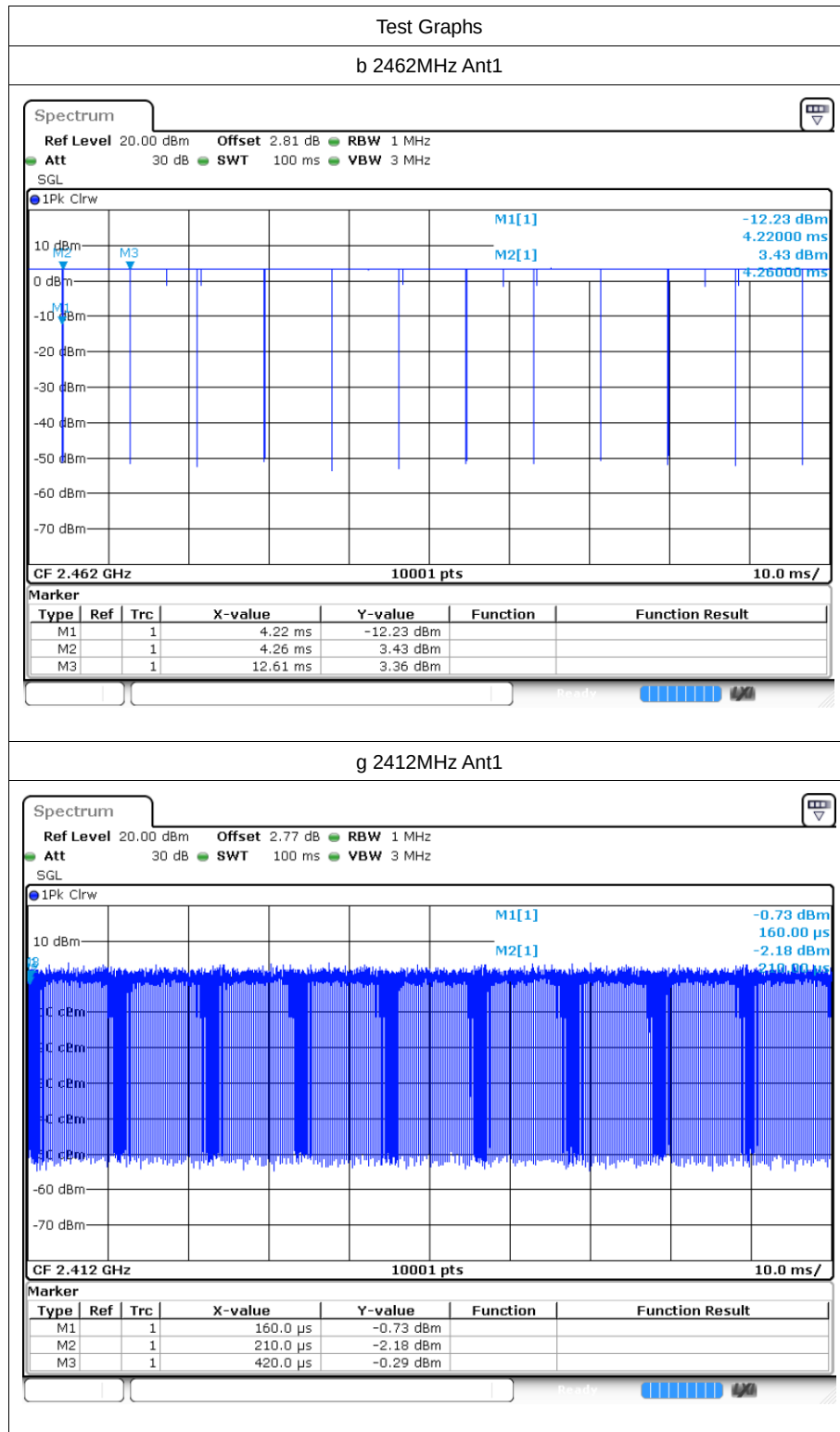
# 1 Duty Cycle

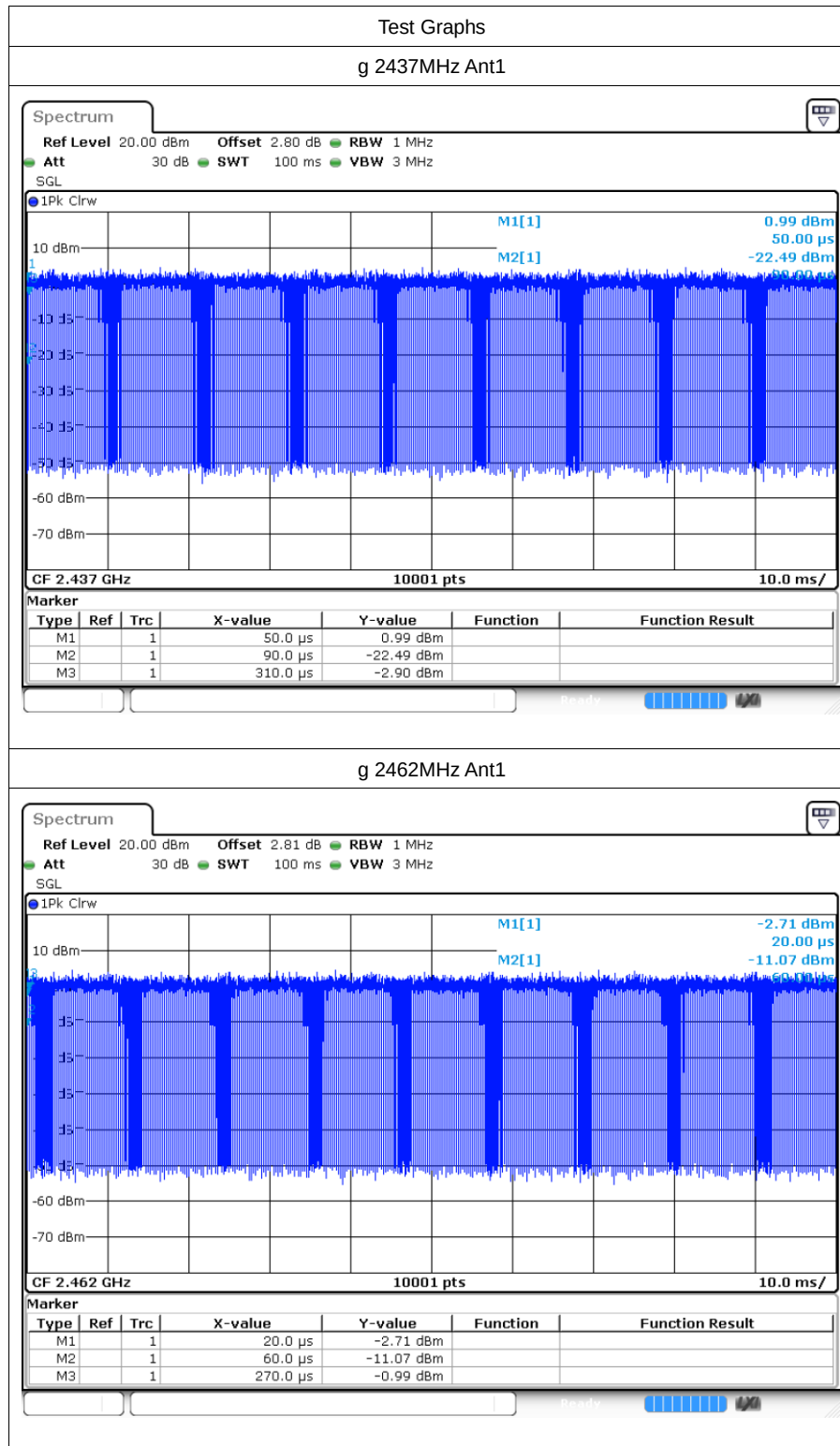
## 1.1 Test Result

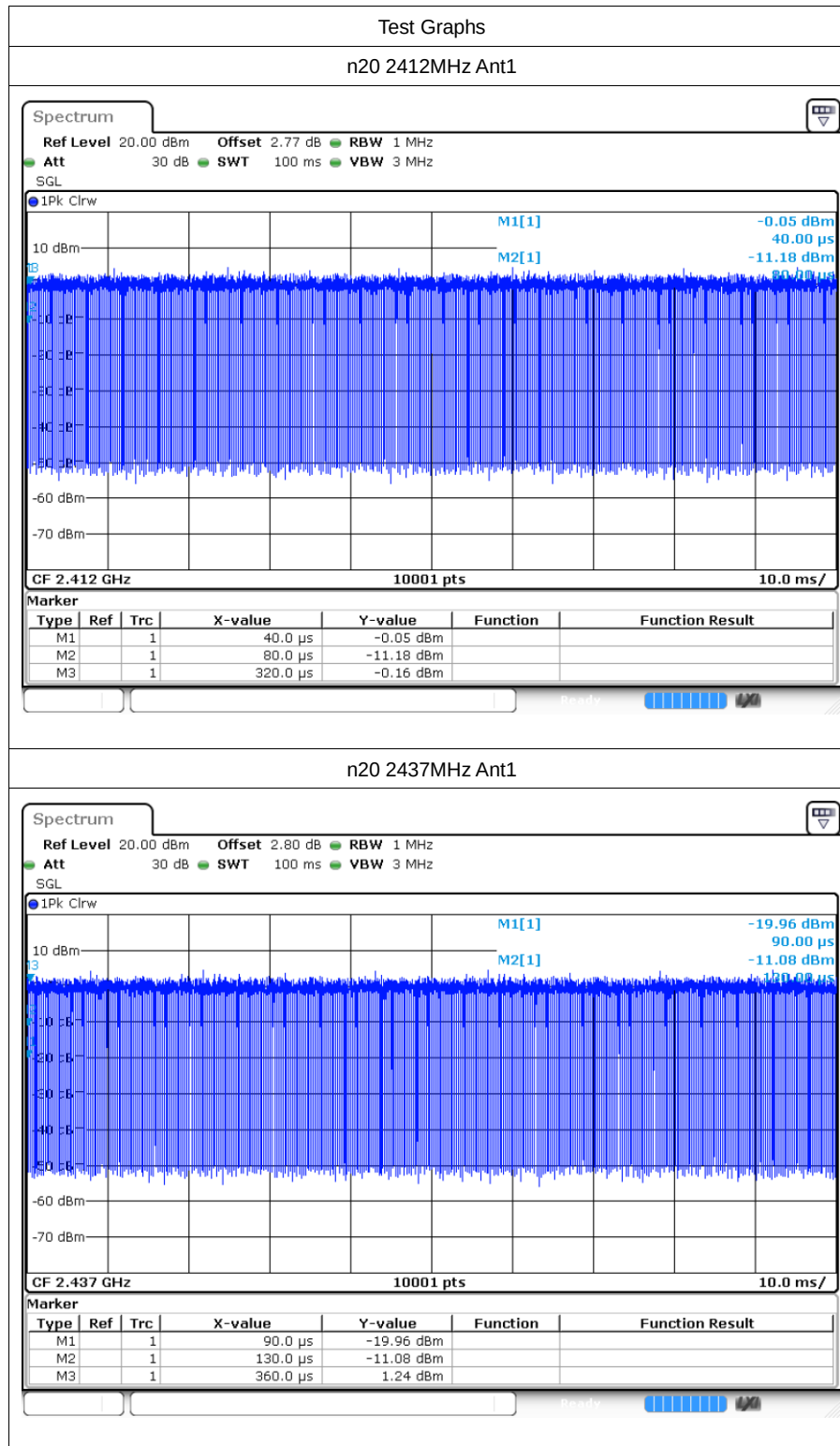
| Mode | Frequency (MHz) | Antenna | Duty Cycle (%) | Correction Factor | 1/T (kHz) |
|------|-----------------|---------|----------------|-------------------|-----------|
| b    | 2412            | Ant1    | 99.61          | 0.02              | 0.12      |
| b    | 2437            | Ant1    | 99.59          | 0.02              | 0.12      |
| b    | 2462            | Ant1    | 99.6           | 0.02              | 0.12      |
| g    | 2412            | Ant1    | 86.86          | 0.61              | 4.76      |
| g    | 2437            | Ant1    | 86.87          | 0.61              | 4.55      |
| g    | 2462            | Ant1    | 86.9           | 0.61              | 4.76      |
| n20  | 2412            | Ant1    | 87.6           | 0.57              | 4.17      |
| n20  | 2437            | Ant1    | 87.59          | 0.58              | 4.35      |
| n20  | 2462            | Ant1    | 87.58          | 0.58              | 4.35      |
| n40  | 2422            | Ant1    | 88.04          | 0.55              | 4         |
| n40  | 2437            | Ant1    | 88.04          | 0.55              | 4         |
| n40  | 2452            | Ant1    | 88.04          | 0.55              | 4         |

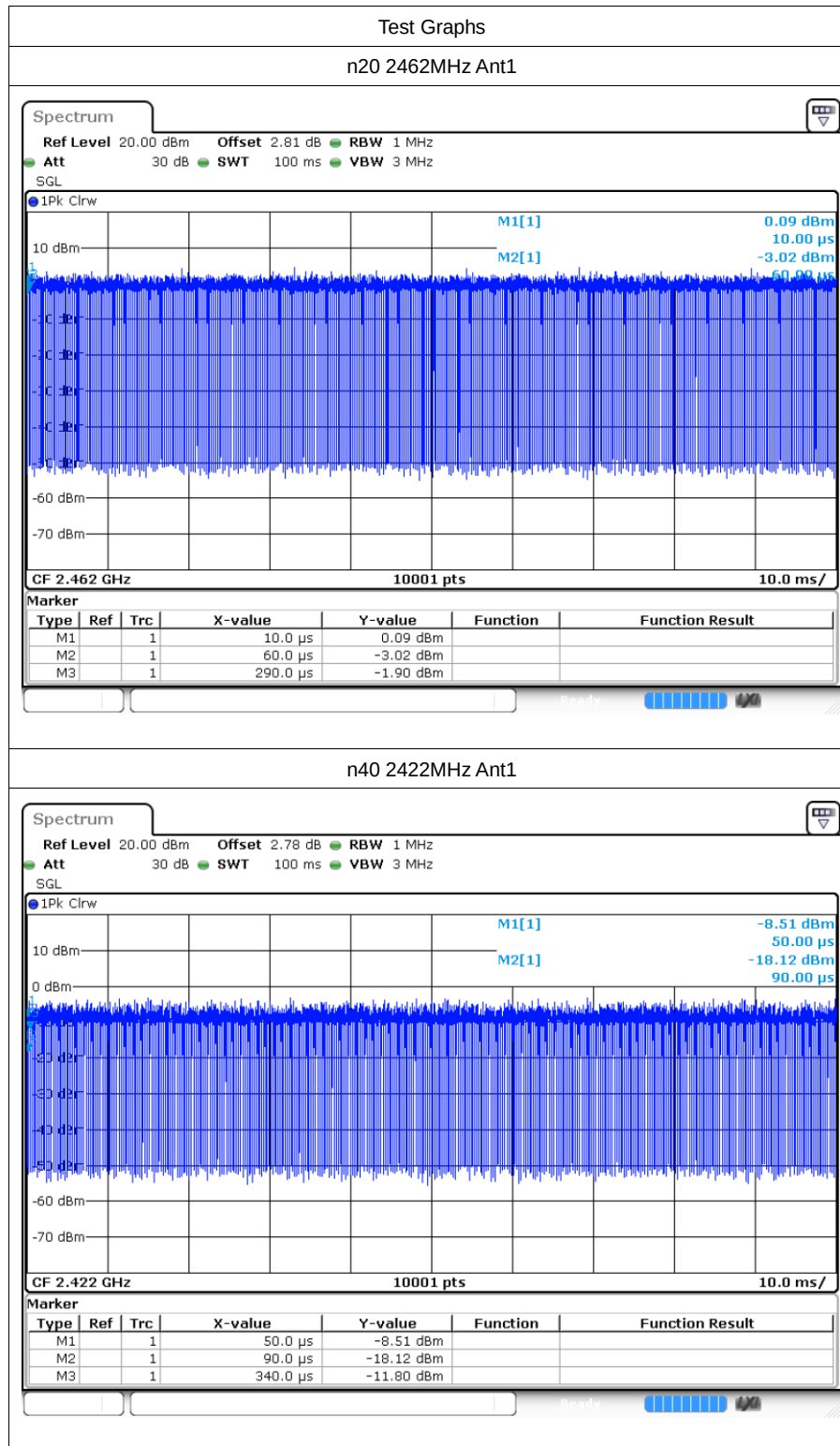
## 1.2 Test Graphs

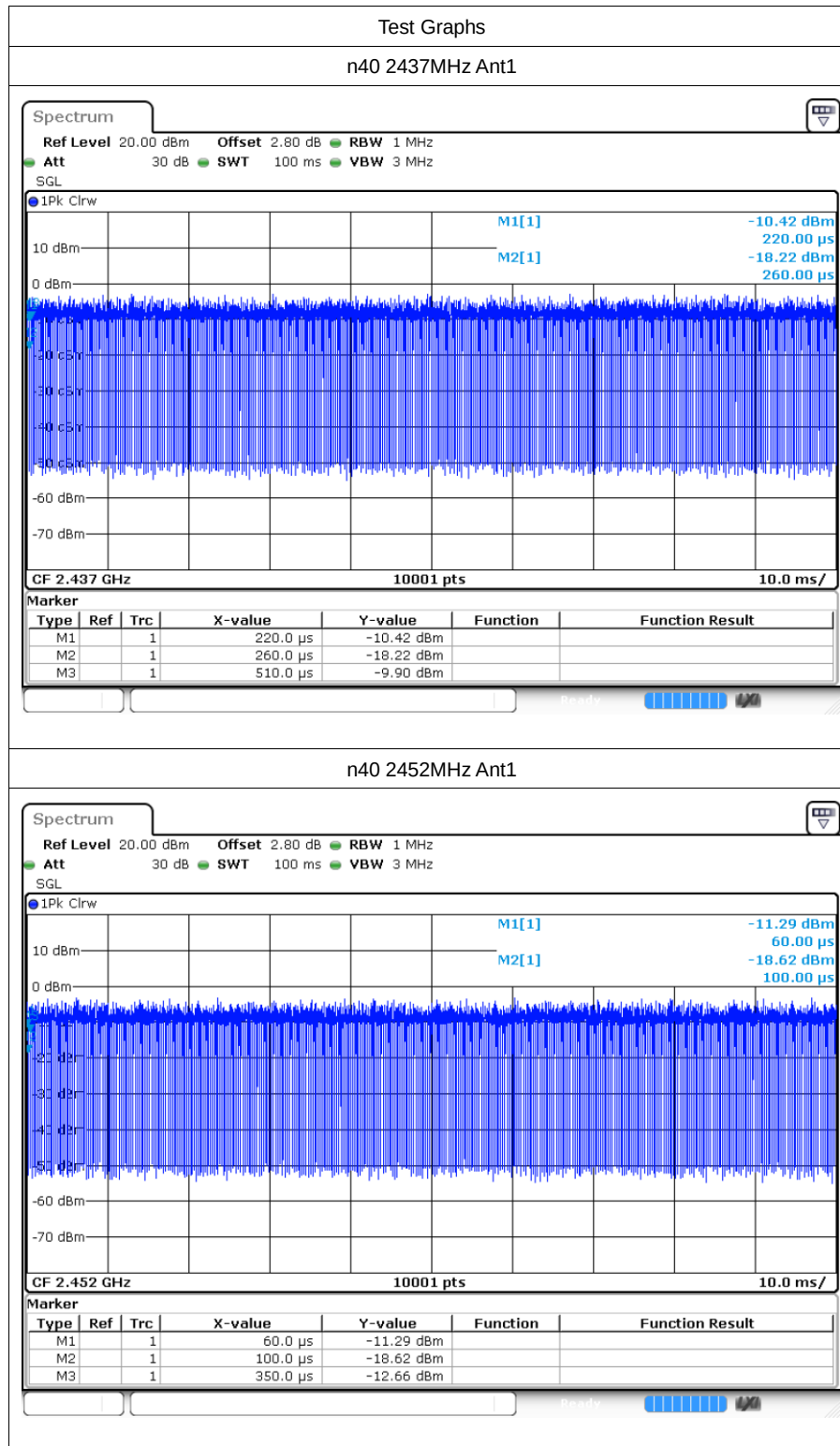












## 2 Maximum Conducted Output Power

### 2.1 Test Result

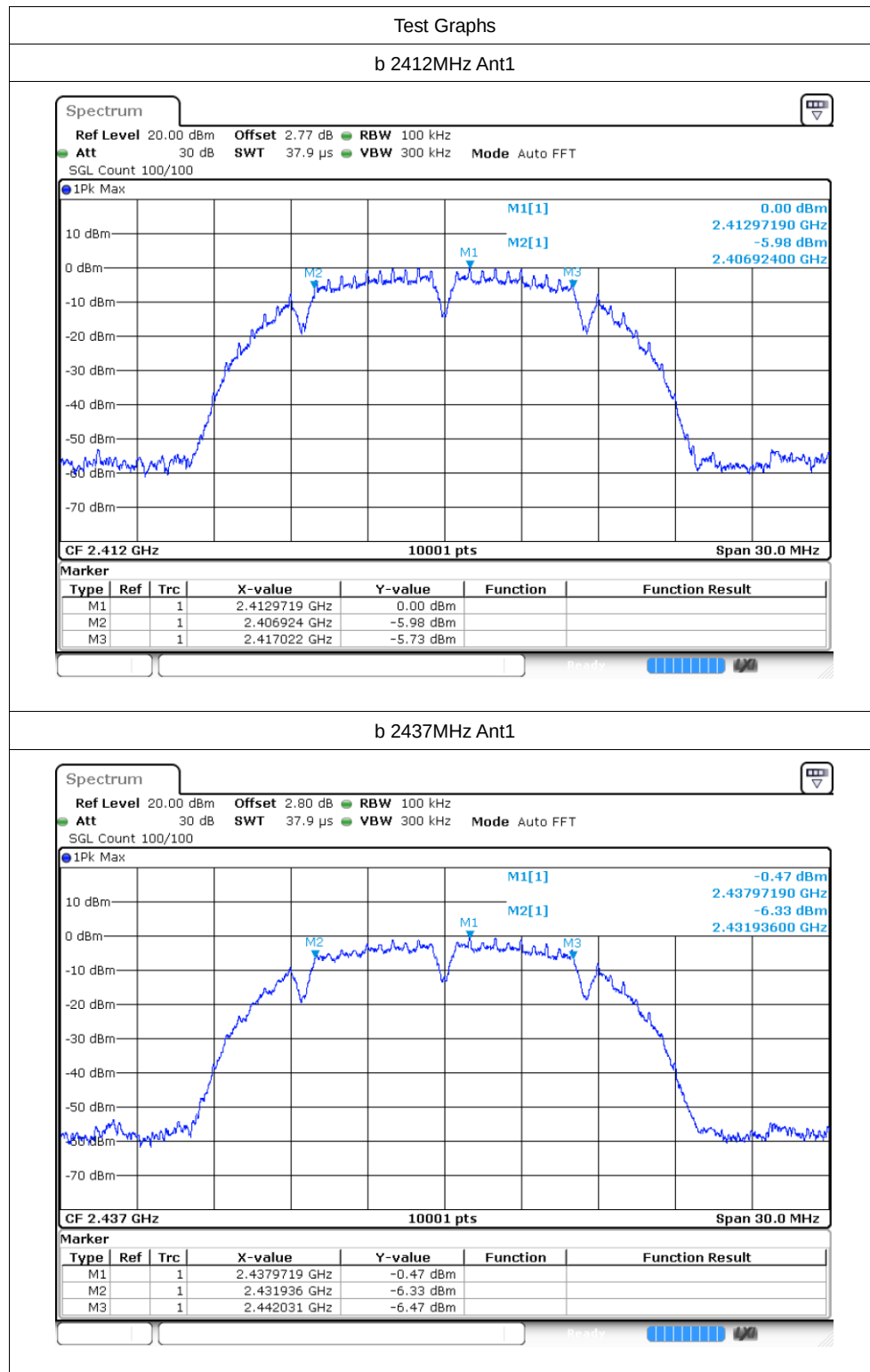
| Mode | Frequency (MHz) | Antenna | Conducted Power (dBm) | Limit (dBm) | Verdict |
|------|-----------------|---------|-----------------------|-------------|---------|
| b    | 2412            | Ant1    | 14                    | 30          | Pass    |
| b    | 2437            | Ant1    | 13.88                 | 30          | Pass    |
| b    | 2462            | Ant1    | 13.9                  | 30          | Pass    |
| g    | 2412            | Ant1    | 13.94                 | 30          | Pass    |
| g    | 2437            | Ant1    | 13.74                 | 30          | Pass    |
| g    | 2462            | Ant1    | 13.7                  | 30          | Pass    |
| n20  | 2412            | Ant1    | 13.49                 | 30          | Pass    |
| n20  | 2437            | Ant1    | 13.32                 | 30          | Pass    |
| n20  | 2462            | Ant1    | 13.4                  | 30          | Pass    |
| n40  | 2422            | Ant1    | 13.28                 | 30          | Pass    |
| n40  | 2437            | Ant1    | 13.26                 | 30          | Pass    |
| n40  | 2452            | Ant1    | 13.2                  | 30          | Pass    |

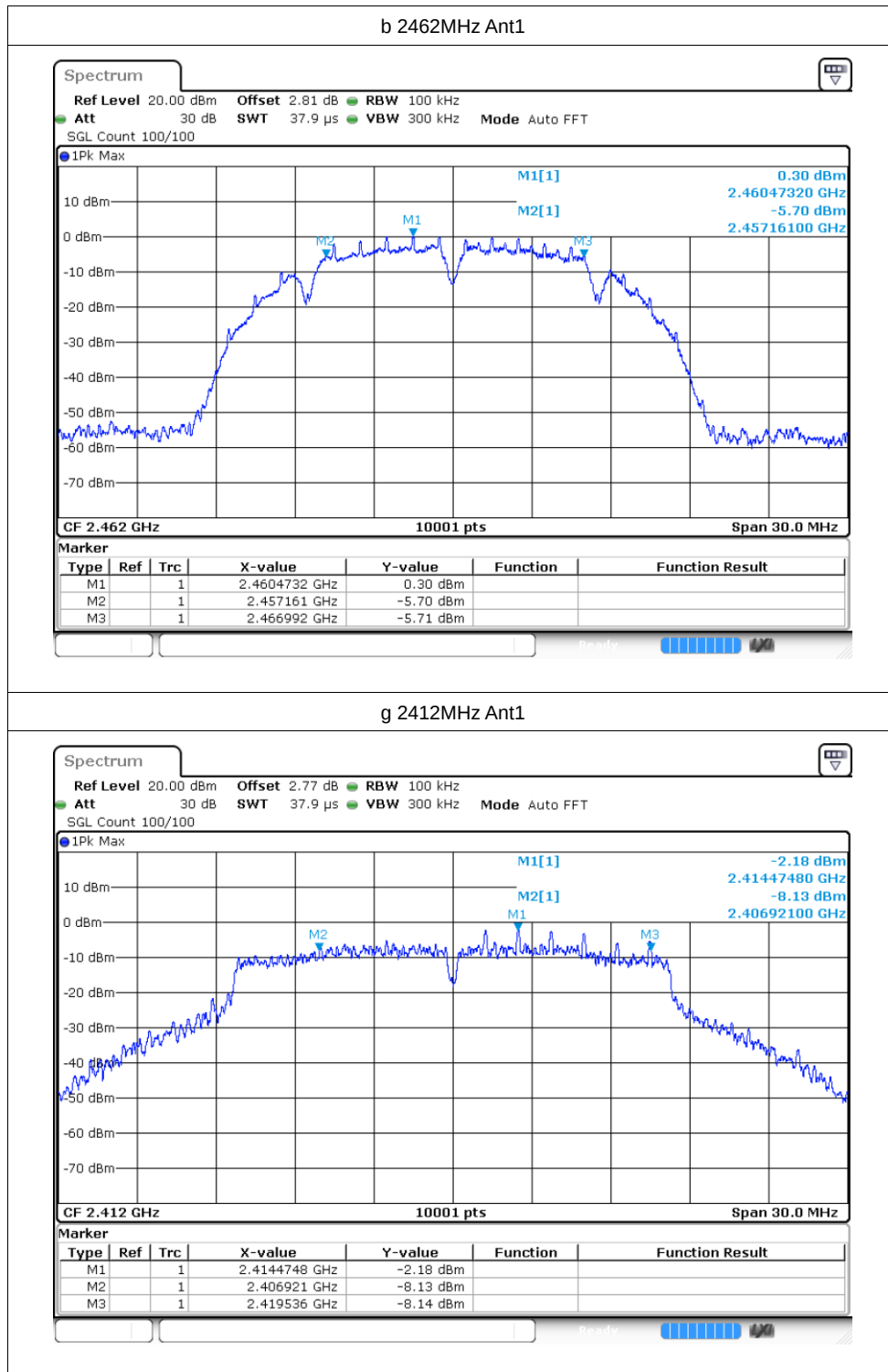
### 3 -6dB Bandwidth

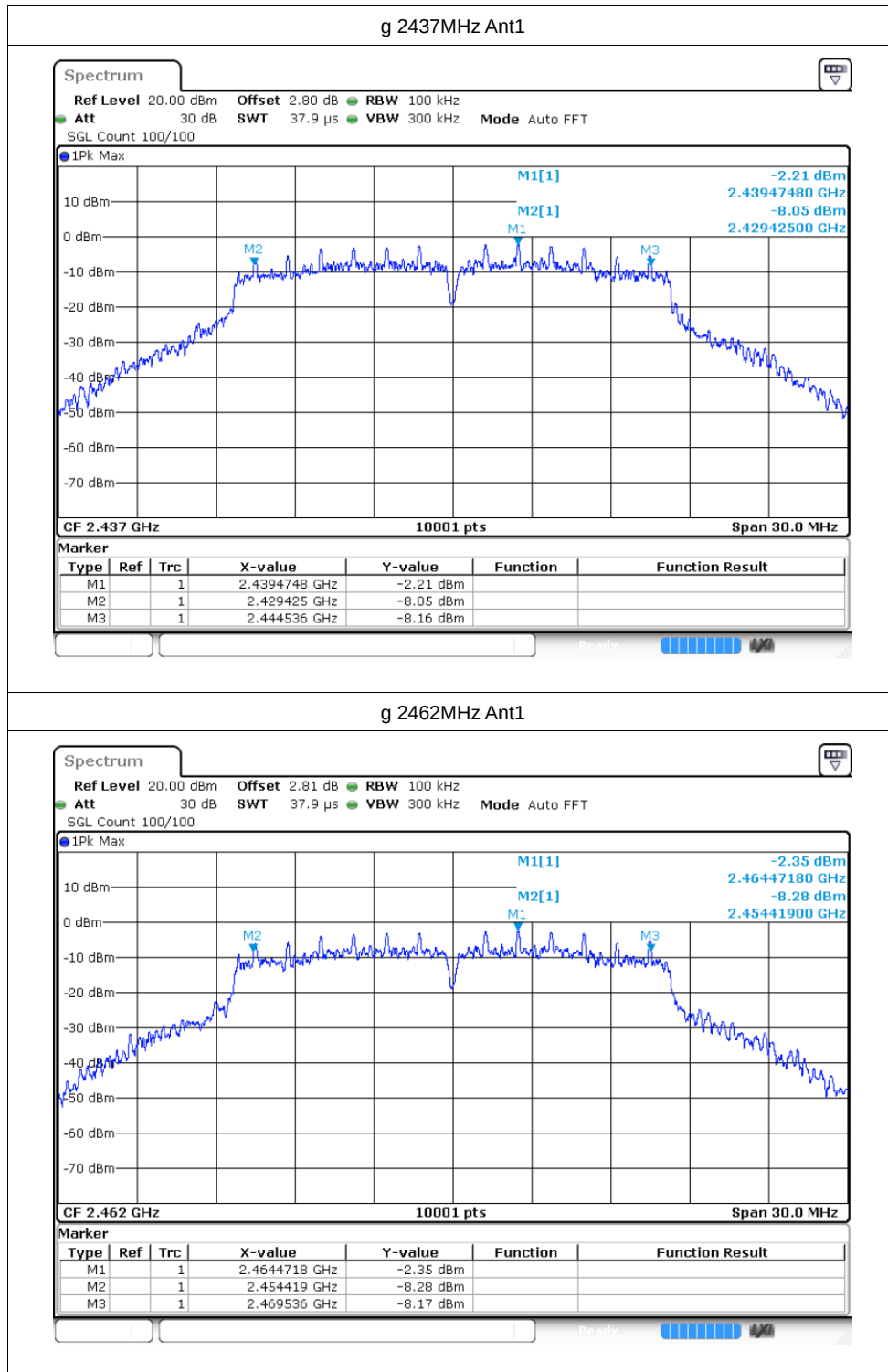
#### 3.1 Test Result

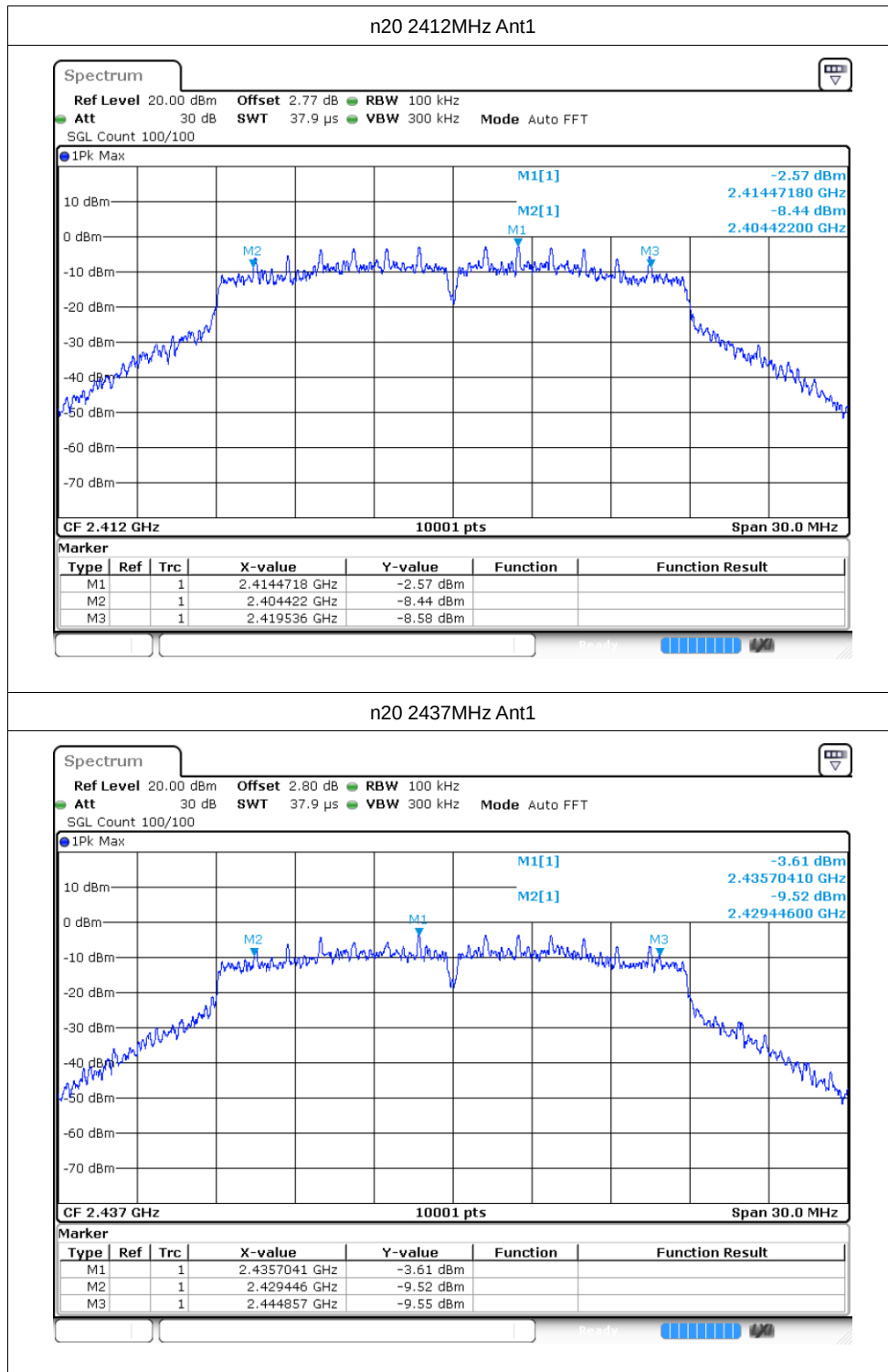
| Mode | Frequency (MHz) | Antenna | -6 dB Bandwidth (MHz) | Limit -6 dB Bandwidth (MHz) | Verdict |
|------|-----------------|---------|-----------------------|-----------------------------|---------|
| b    | 2412            | Ant1    | 10.098                | 0.5                         | Pass    |
| b    | 2437            | Ant1    | 10.095                | 0.5                         | Pass    |
| b    | 2462            | Ant1    | 9.831                 | 0.5                         | Pass    |
| g    | 2412            | Ant1    | 12.615                | 0.5                         | Pass    |
| g    | 2437            | Ant1    | 15.111                | 0.5                         | Pass    |
| g    | 2462            | Ant1    | 15.117                | 0.5                         | Pass    |
| n20  | 2412            | Ant1    | 15.114                | 0.5                         | Pass    |
| n20  | 2437            | Ant1    | 15.411                | 0.5                         | Pass    |
| n20  | 2462            | Ant1    | 15.123                | 0.5                         | Pass    |
| n40  | 2422            | Ant1    | 35.076                | 0.5                         | Pass    |
| n40  | 2437            | Ant1    | 35.04                 | 0.5                         | Pass    |
| n40  | 2452            | Ant1    | 35.07                 | 0.5                         | Pass    |

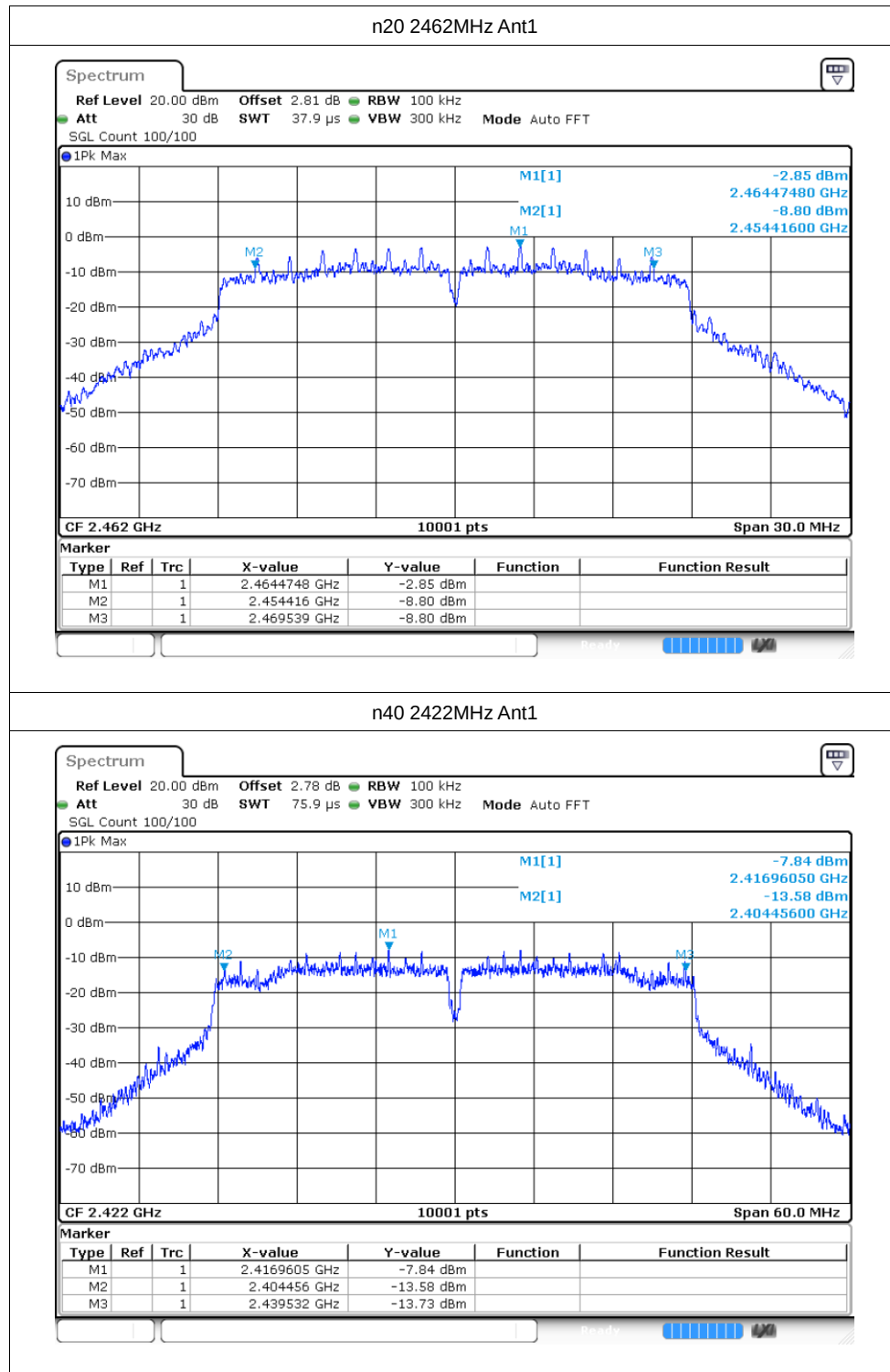
## 3.2 Test Graphs

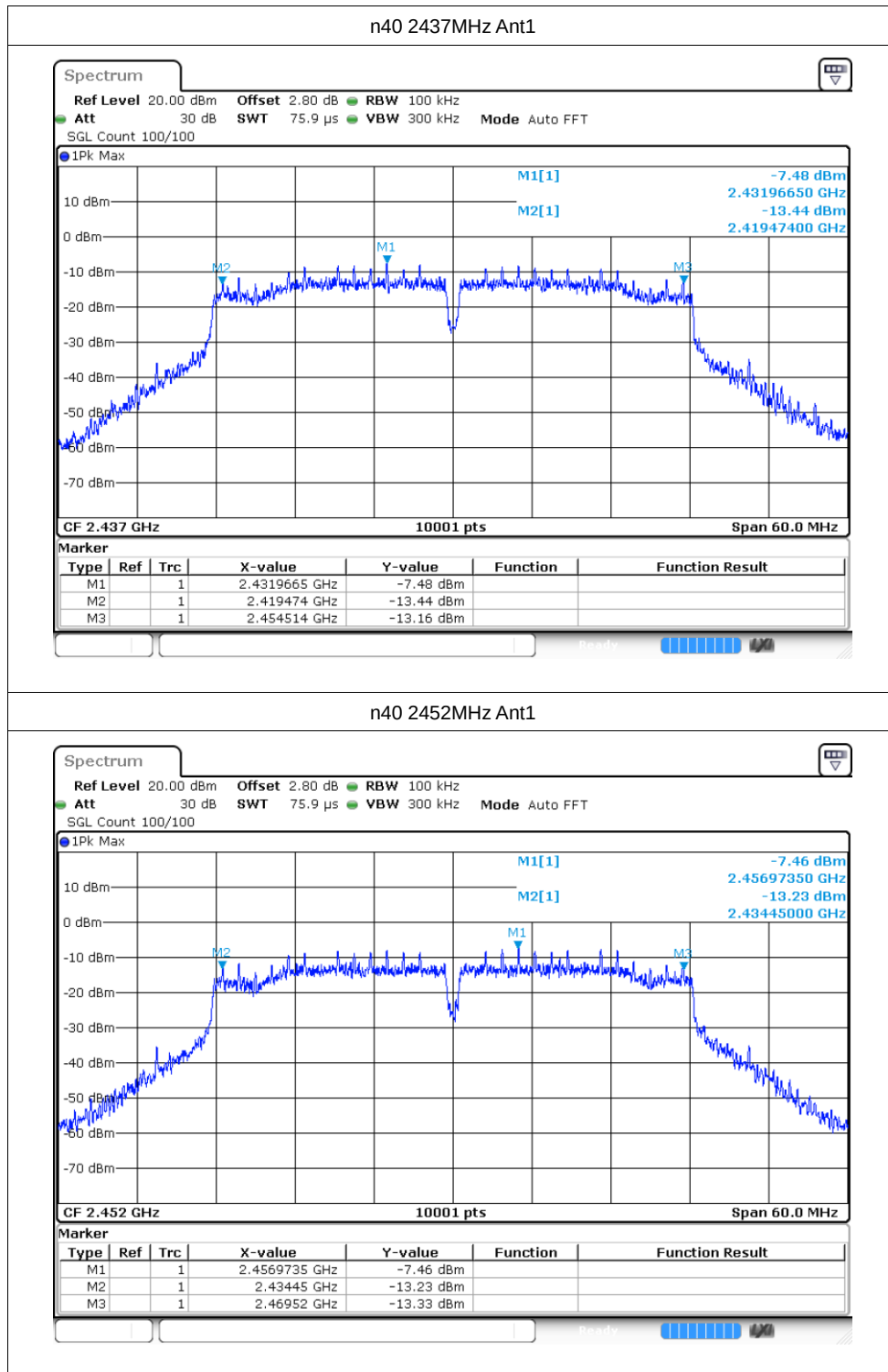










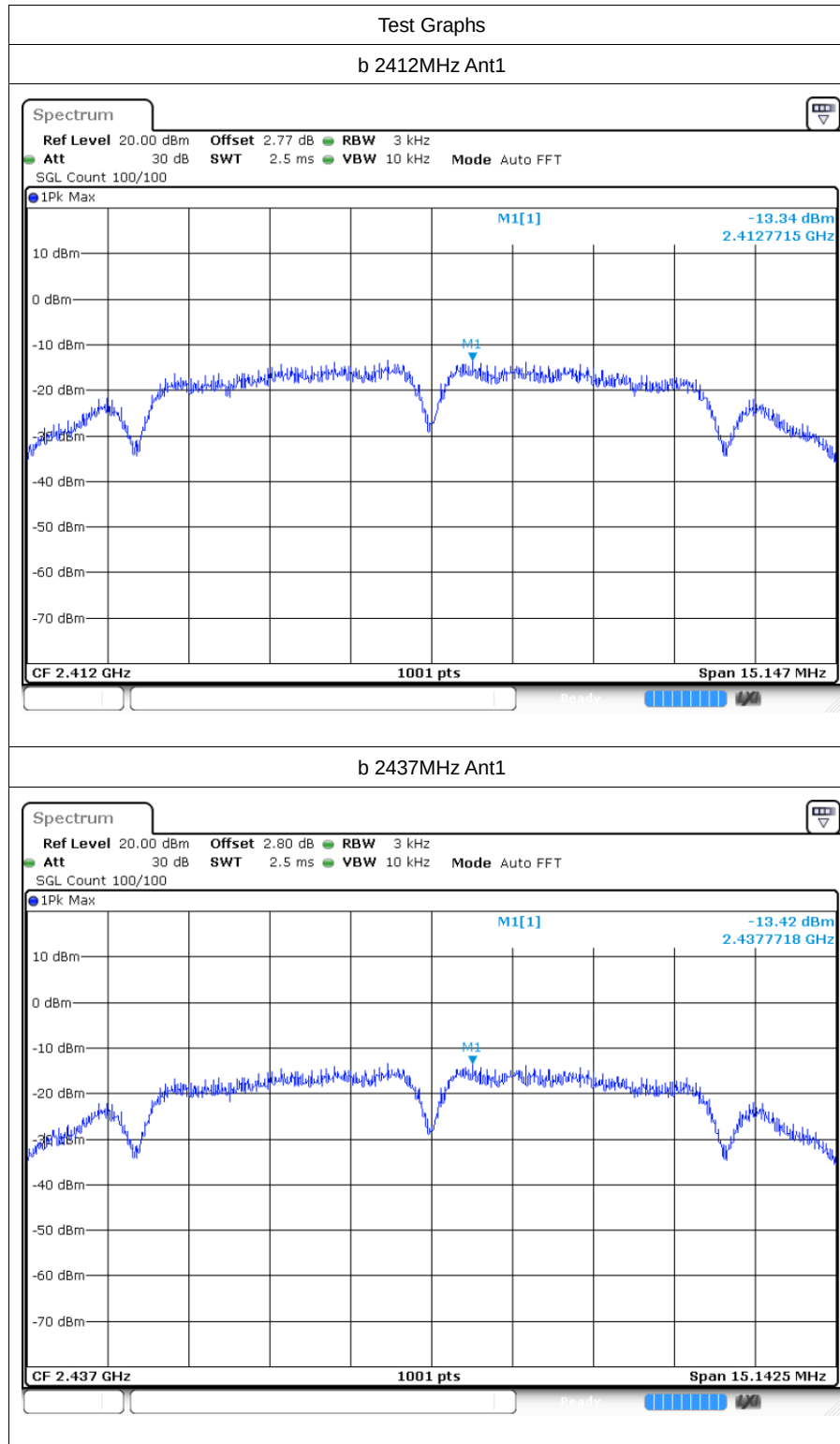


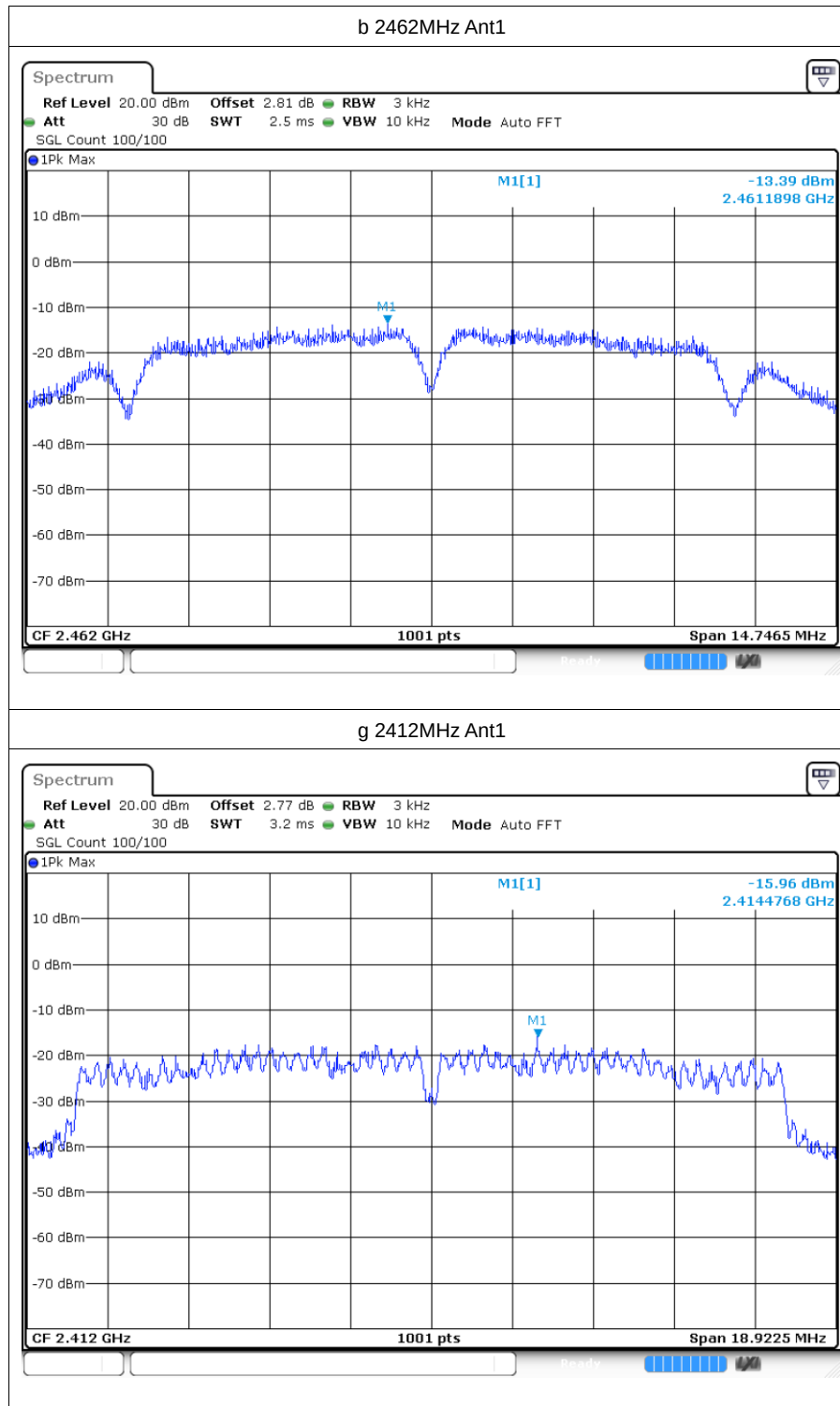
## 4 Maximum Power Spectral Density Level

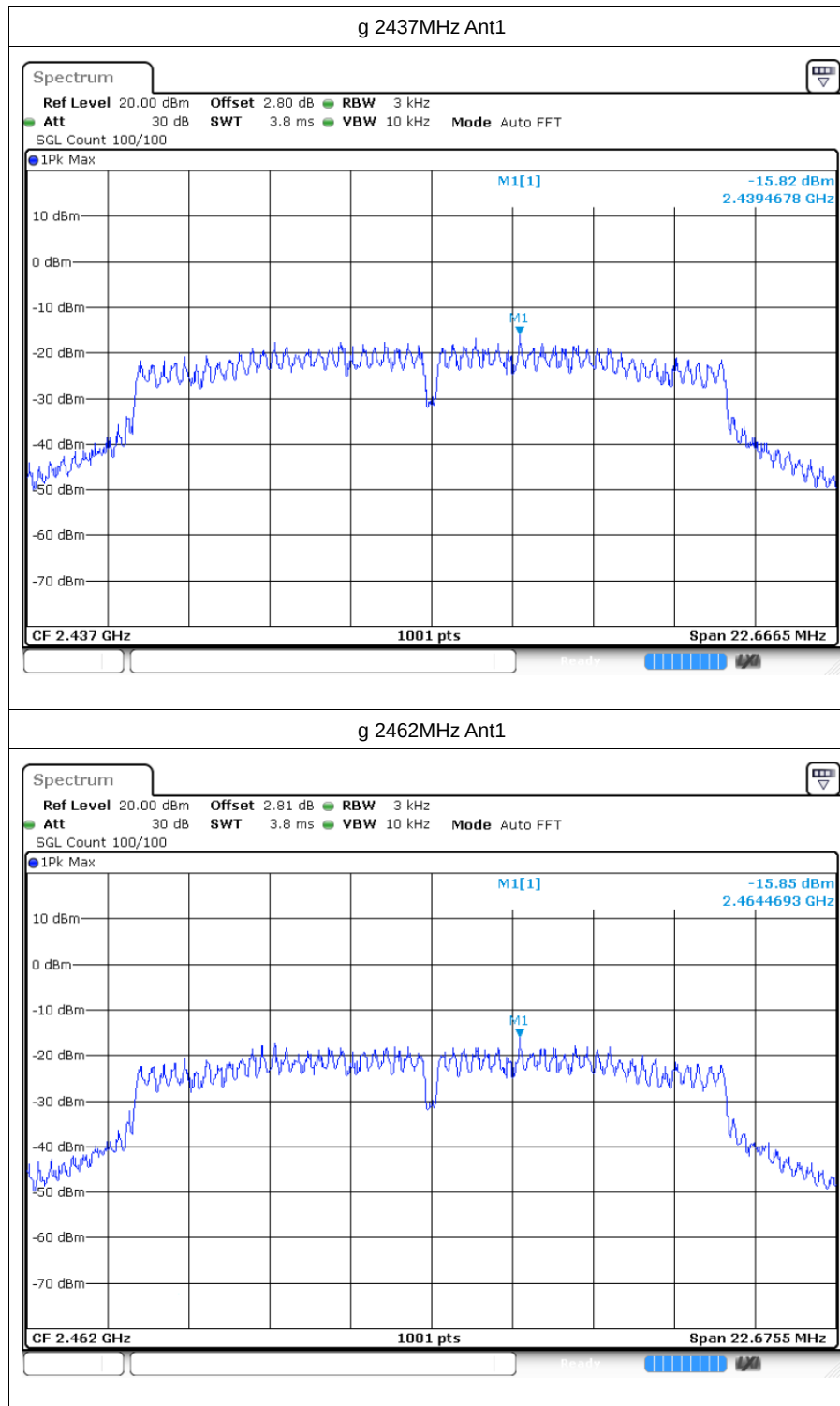
### 4.1 Test Result

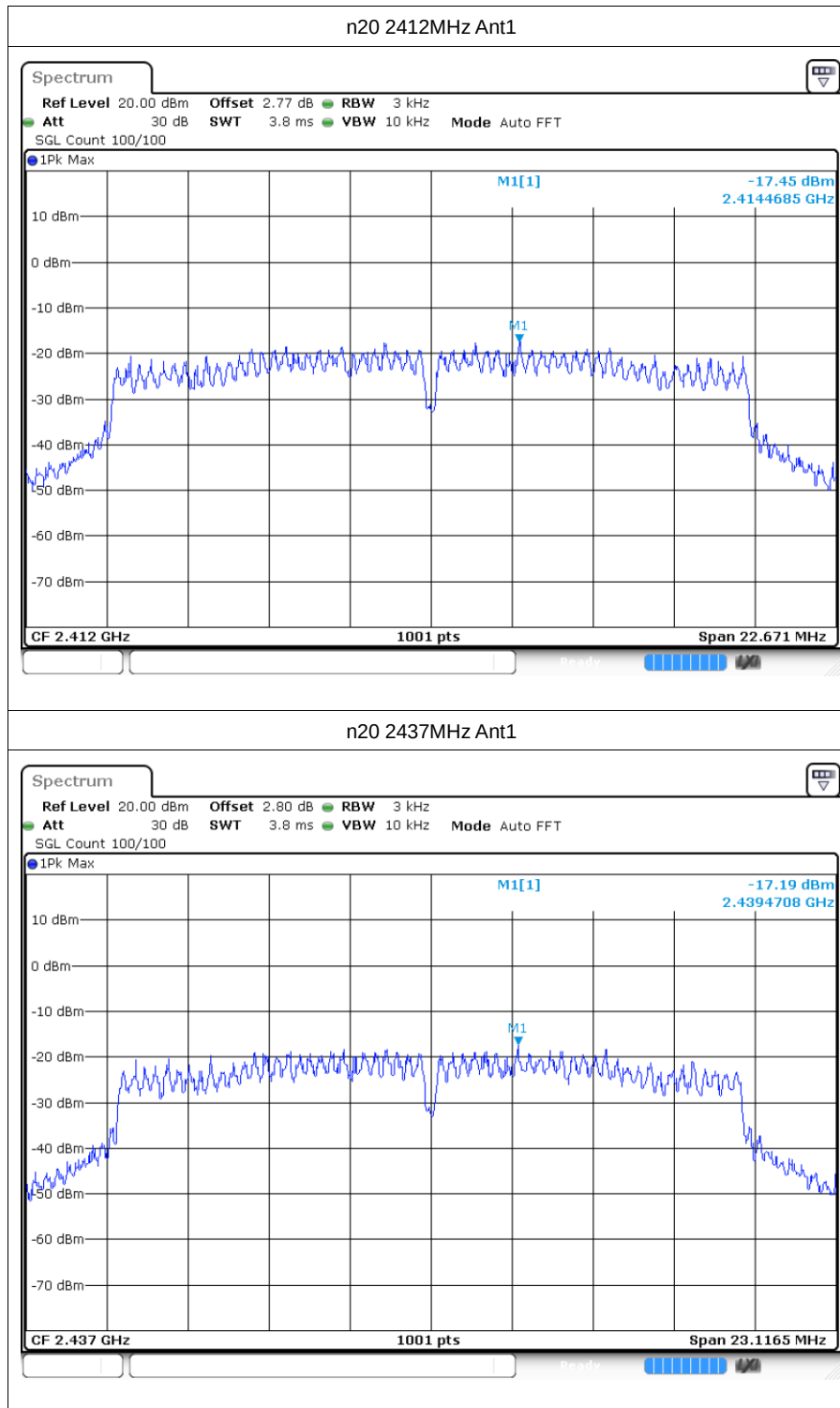
| Mode | Frequency (MHz) | Antenna | Conducted PSD<br>(dBm/3-100kHz) | Limit<br>(dBm/3kHz) | Verdict |
|------|-----------------|---------|---------------------------------|---------------------|---------|
| b    | 2412            | Ant1    | -13.34                          | $\leq 8$            | Pass    |
| b    | 2437            | Ant1    | -13.42                          | $\leq 8$            | Pass    |
| b    | 2462            | Ant1    | -13.39                          | $\leq 8$            | Pass    |
| g    | 2412            | Ant1    | -15.96                          | $\leq 8$            | Pass    |
| g    | 2437            | Ant1    | -15.82                          | $\leq 8$            | Pass    |
| g    | 2462            | Ant1    | -15.85                          | $\leq 8$            | Pass    |
| n20  | 2412            | Ant1    | -17.45                          | $\leq 8$            | Pass    |
| n20  | 2437            | Ant1    | -17.19                          | $\leq 8$            | Pass    |
| n20  | 2462            | Ant1    | -17.29                          | $\leq 8$            | Pass    |
| n40  | 2422            | Ant1    | -21.53                          | $\leq 8$            | Pass    |
| n40  | 2437            | Ant1    | -21.1                           | $\leq 8$            | Pass    |
| n40  | 2452            | Ant1    | -20.79                          | $\leq 8$            | Pass    |

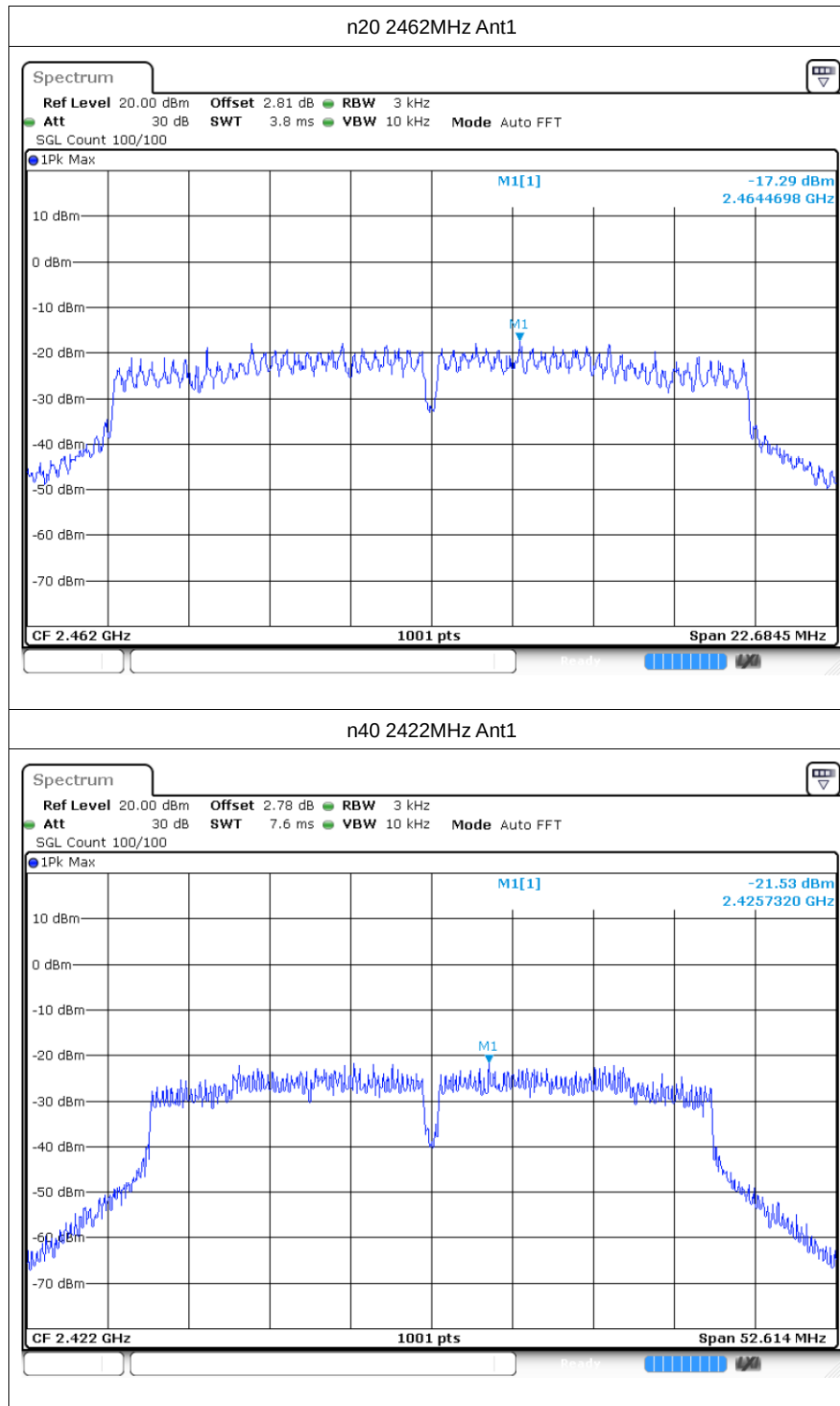
## 4.2 Test Graphs

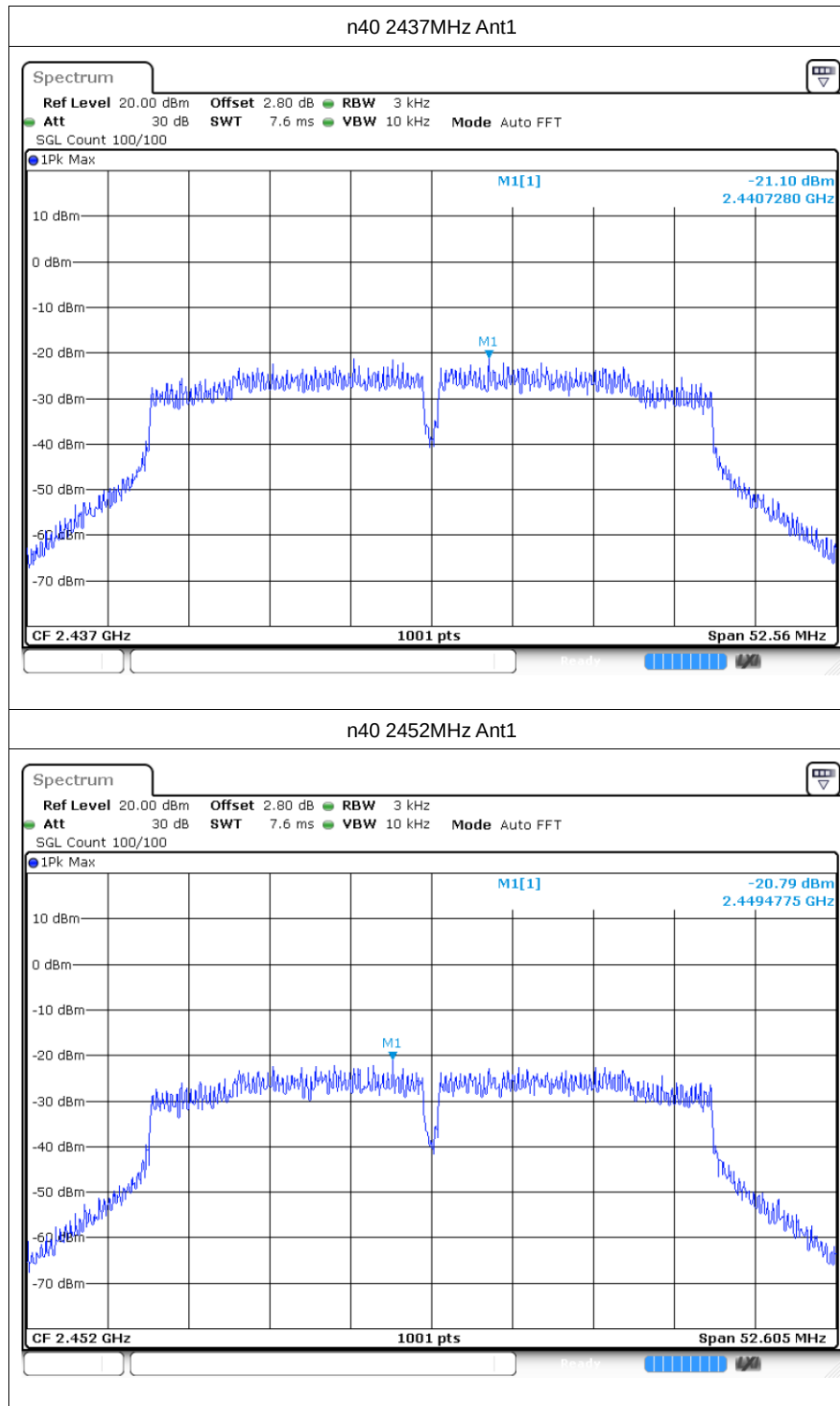














## 5 Band Edge

### 5.1 Test Result

| Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|------|-----------------|---------|-----------------|-------------|---------|
| b    | 2412            | Ant1    | -54.91          | -20         | Pass    |
| b    | 2462            | Ant1    | -55.22          | -20         | Pass    |
| g    | 2412            | Ant1    | -52.12          | -20         | Pass    |
| g    | 2462            | Ant1    | -53.63          | -20         | Pass    |
| n20  | 2412            | Ant1    | -50.77          | -20         | Pass    |
| n20  | 2462            | Ant1    | -52.62          | -20         | Pass    |
| n40  | 2422            | Ant1    | -48.1           | -20         | Pass    |
| n40  | 2452            | Ant1    | -47.88          | -20         | Pass    |

## 5.2 Test Graphs

