



## Appendix C

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

Product Name: Wifi Camera

Trade Mark: N/A

Test Model: YH-A14S

#### Environmental Conditions

|                    |             |
|--------------------|-------------|
| Temperature:       | 23.9° C     |
| Relative Humidity: | 51.3%       |
| ATM Pressure:      | 100.0 kPa   |
| Test Engineer:     | Emiya Lin   |
| Supervised by:     | Simba Huang |



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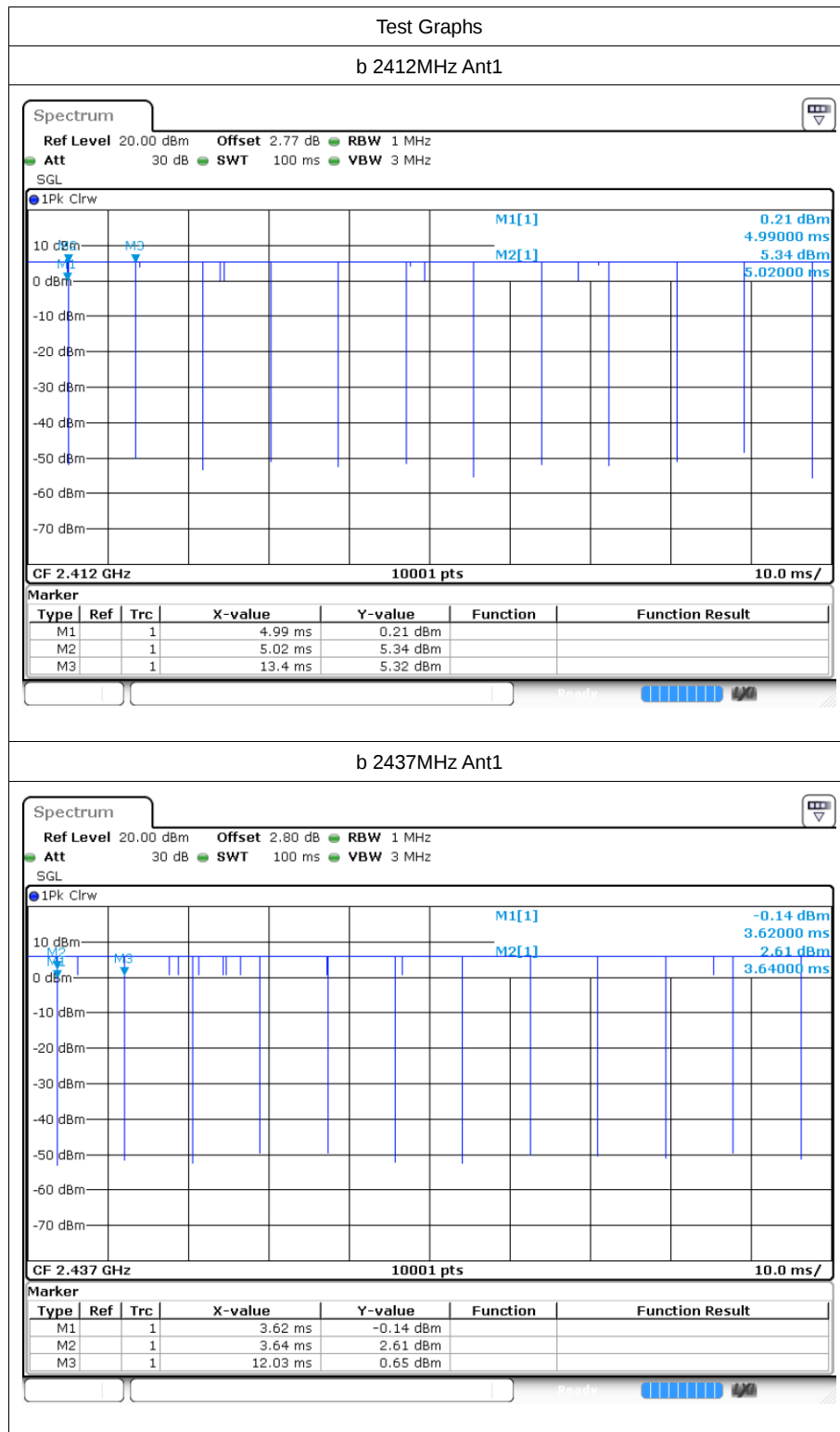


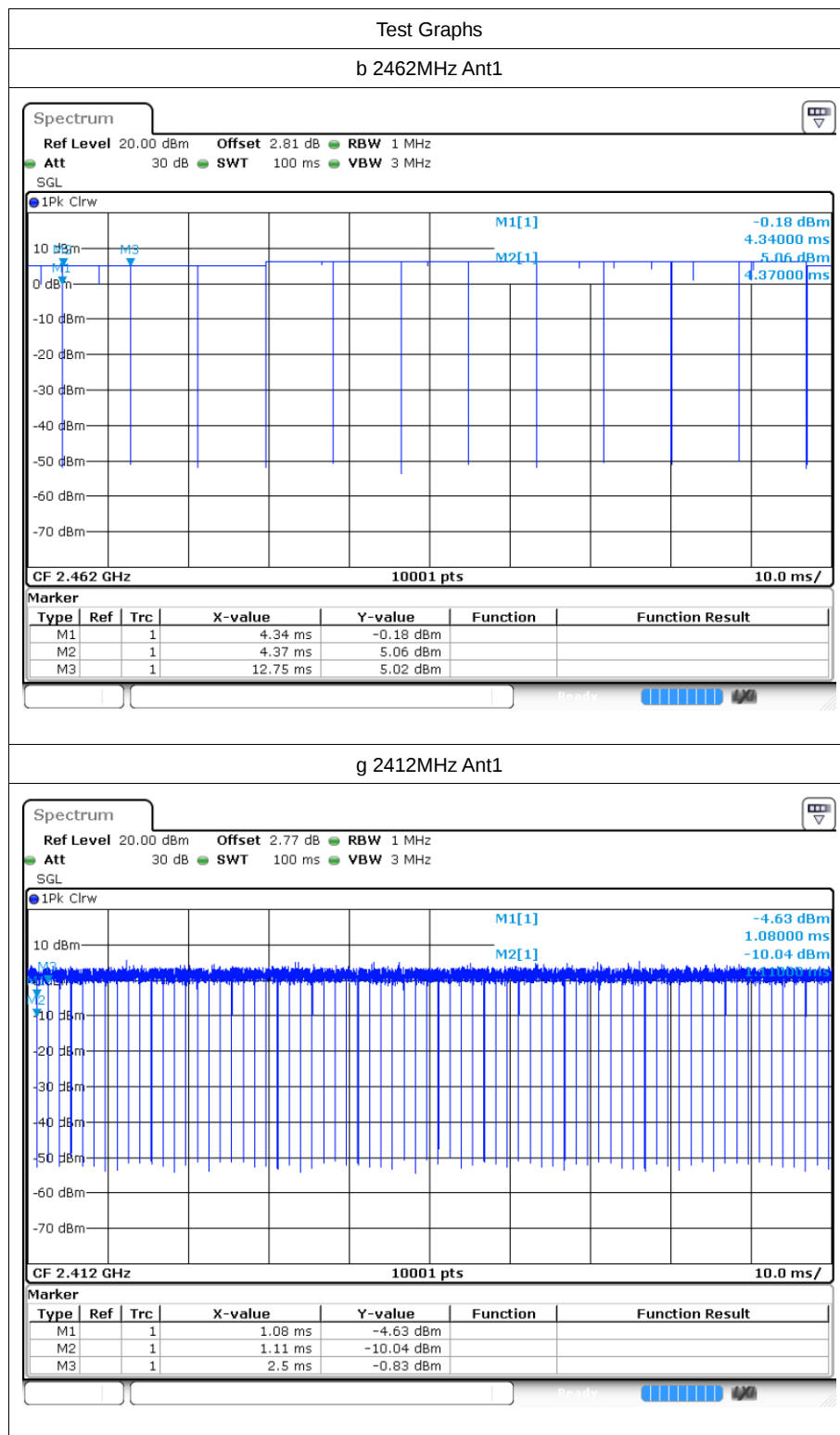
# 1 Duty Cycle

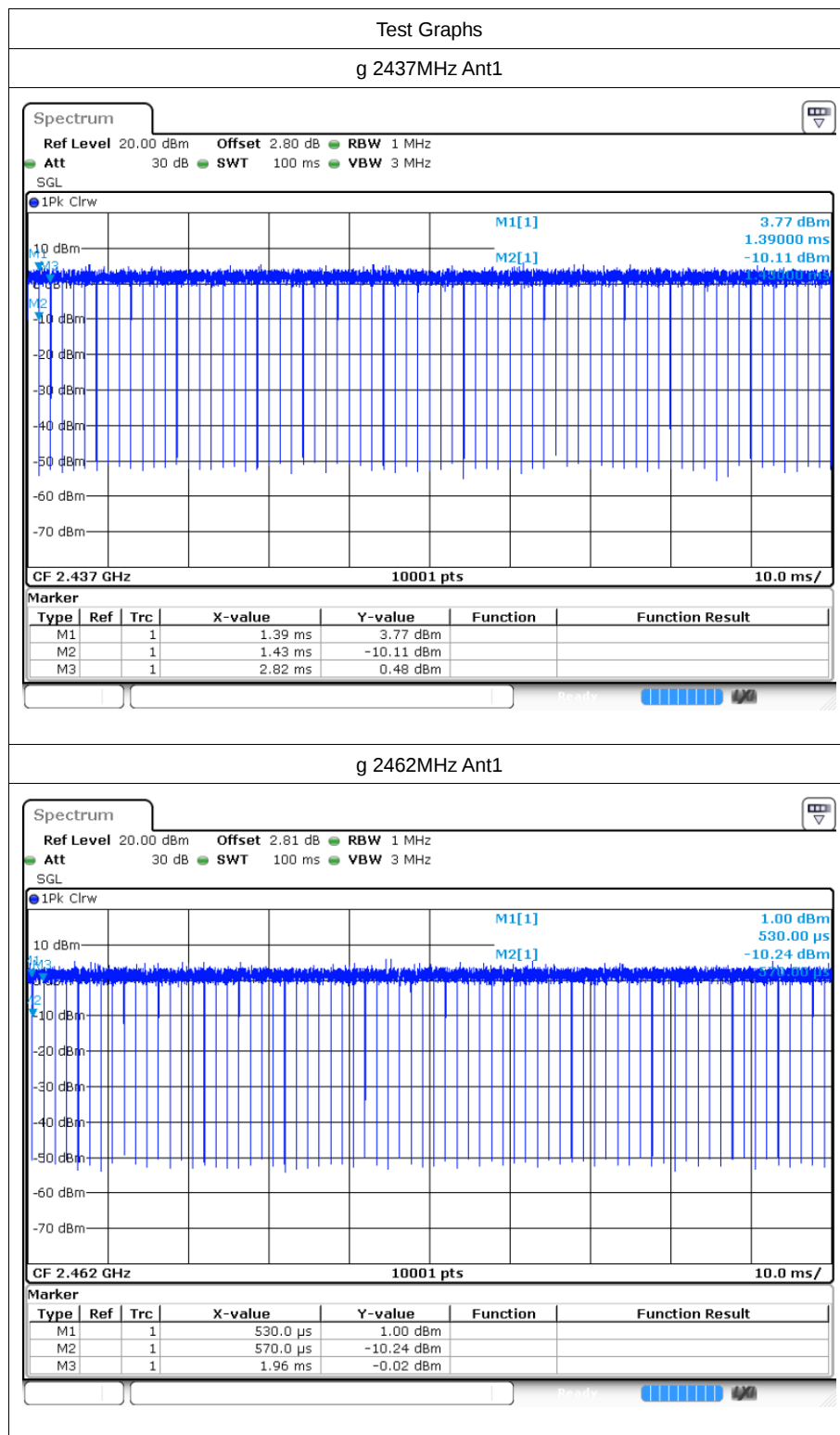
## 1.1 Test Result

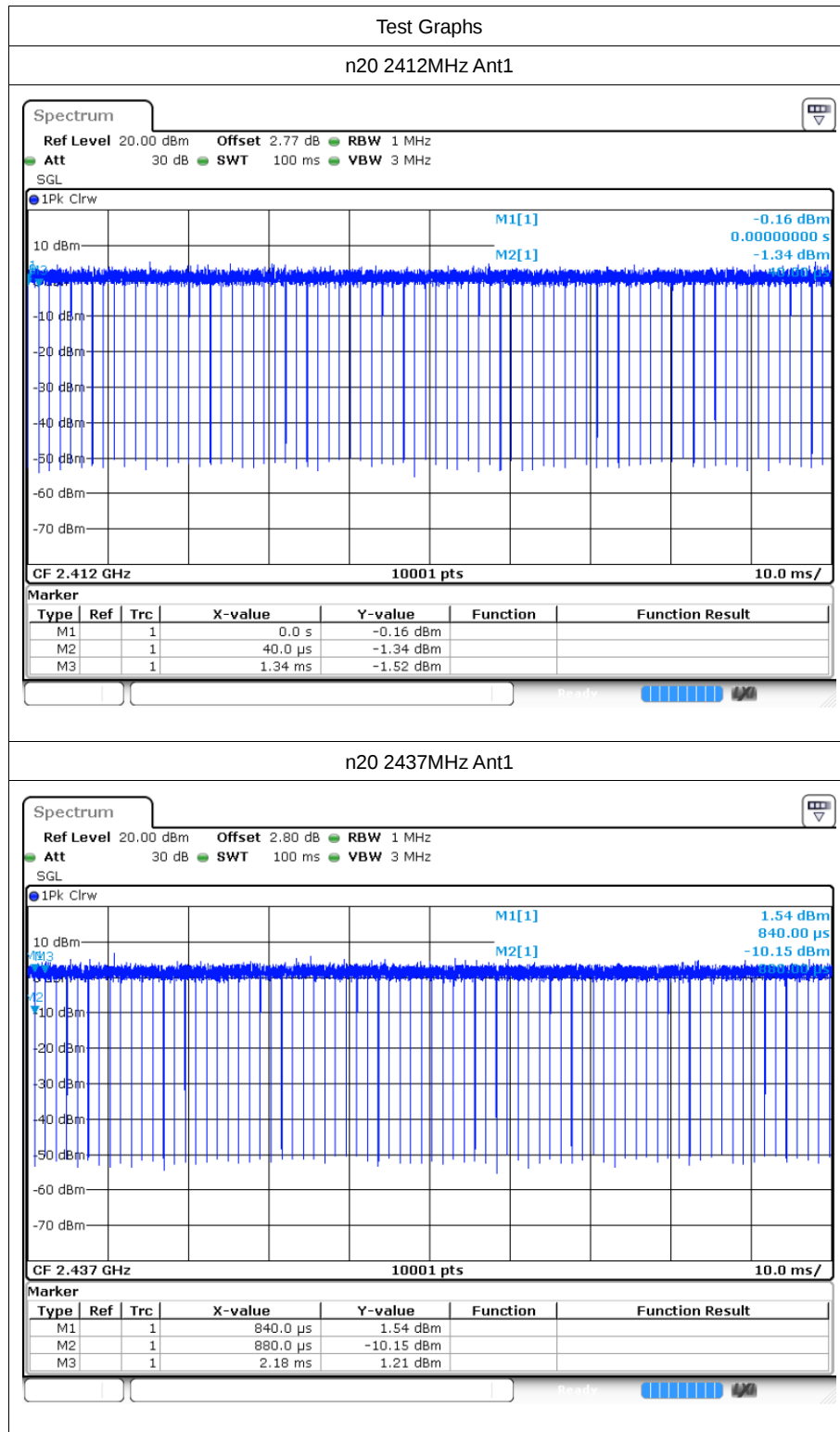
| Mode | Frequency (MHz) | Antenna | Duty Cycle (%) | Correction Factor | 1/T (kHz) |
|------|-----------------|---------|----------------|-------------------|-----------|
| b    | 2412            | Ant1    | 99.78          | 0.01              | 0.12      |
| b    | 2437            | Ant1    | 99.79          | 0.01              | 0.12      |
| b    | 2462            | Ant1    | 99.78          | 0.01              | 0.12      |
| g    | 2412            | Ant1    | 98.23          | 0.08              | 0.72      |
| g    | 2437            | Ant1    | 98.22          | 0.08              | 0.72      |
| g    | 2462            | Ant1    | 98.24          | 0.08              | 0.72      |
| n20  | 2412            | Ant1    | 98.11          | 0.08              | 0.77      |
| n20  | 2437            | Ant1    | 98.12          | 0.08              | 0.77      |
| n20  | 2462            | Ant1    | 98.12          | 0.08              | 0.77      |
| n40  | 2422            | Ant1    | 96.49          | 0.16              | 1.54      |
| n40  | 2437            | Ant1    | 96.48          | 0.16              | 1.54      |
| n40  | 2452            | Ant1    | 96.34          | 0.16              | 1.56      |

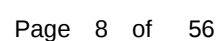
## 1.2 Test Graphs

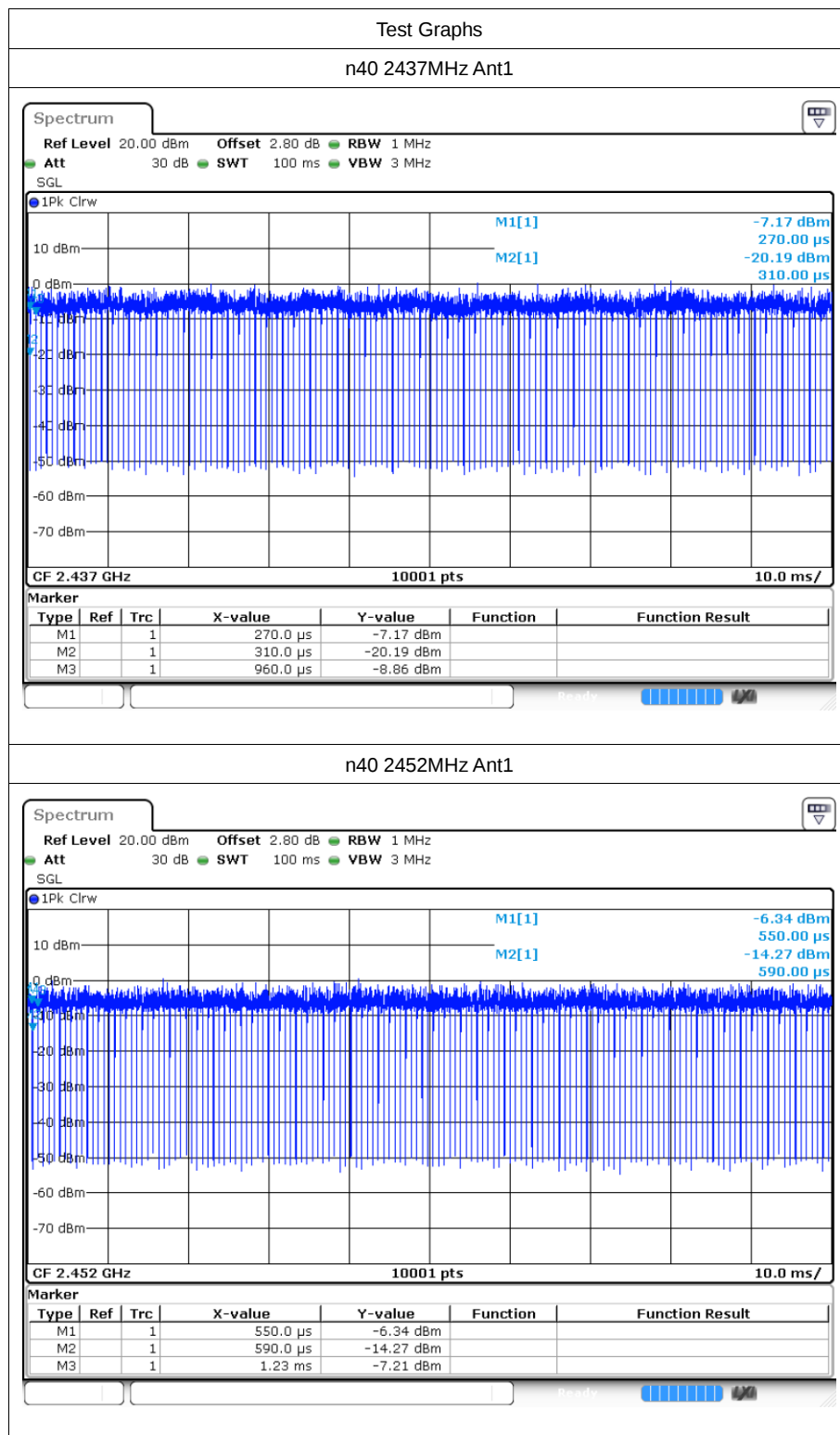












## 2 Maximum Conducted Output Power

### 2.1 Test Result

| Mode | Frequency (MHz) | Antenna | Conducted Power (dBm) | Limit (dBm) | Verdict |
|------|-----------------|---------|-----------------------|-------------|---------|
| b    | 2412            | Ant1    | 14.55                 | 30          | Pass    |
| b    | 2437            | Ant1    | 14.96                 | 30          | Pass    |
| b    | 2462            | Ant1    | 15.42                 | 30          | Pass    |
| g    | 2412            | Ant1    | 13.89                 | 30          | Pass    |
| g    | 2437            | Ant1    | 14.18                 | 30          | Pass    |
| g    | 2462            | Ant1    | 14.13                 | 30          | Pass    |
| n20  | 2412            | Ant1    | 13.81                 | 30          | Pass    |
| n20  | 2437            | Ant1    | 14.05                 | 30          | Pass    |
| n20  | 2462            | Ant1    | 14.05                 | 30          | Pass    |
| n40  | 2422            | Ant1    | 13.55                 | 30          | Pass    |
| n40  | 2437            | Ant1    | 13.83                 | 30          | Pass    |
| n40  | 2452            | Ant1    | 14.03                 | 30          | Pass    |

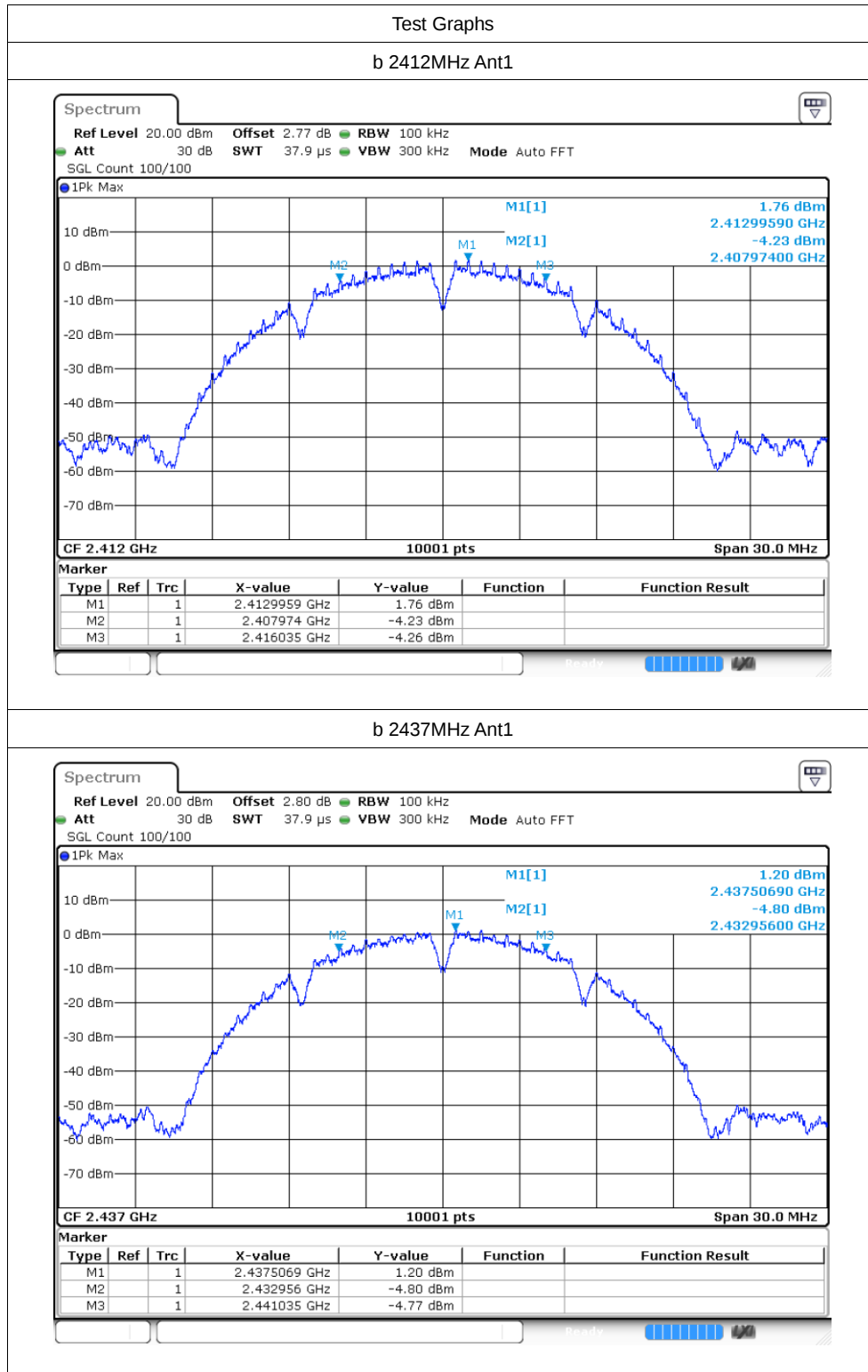


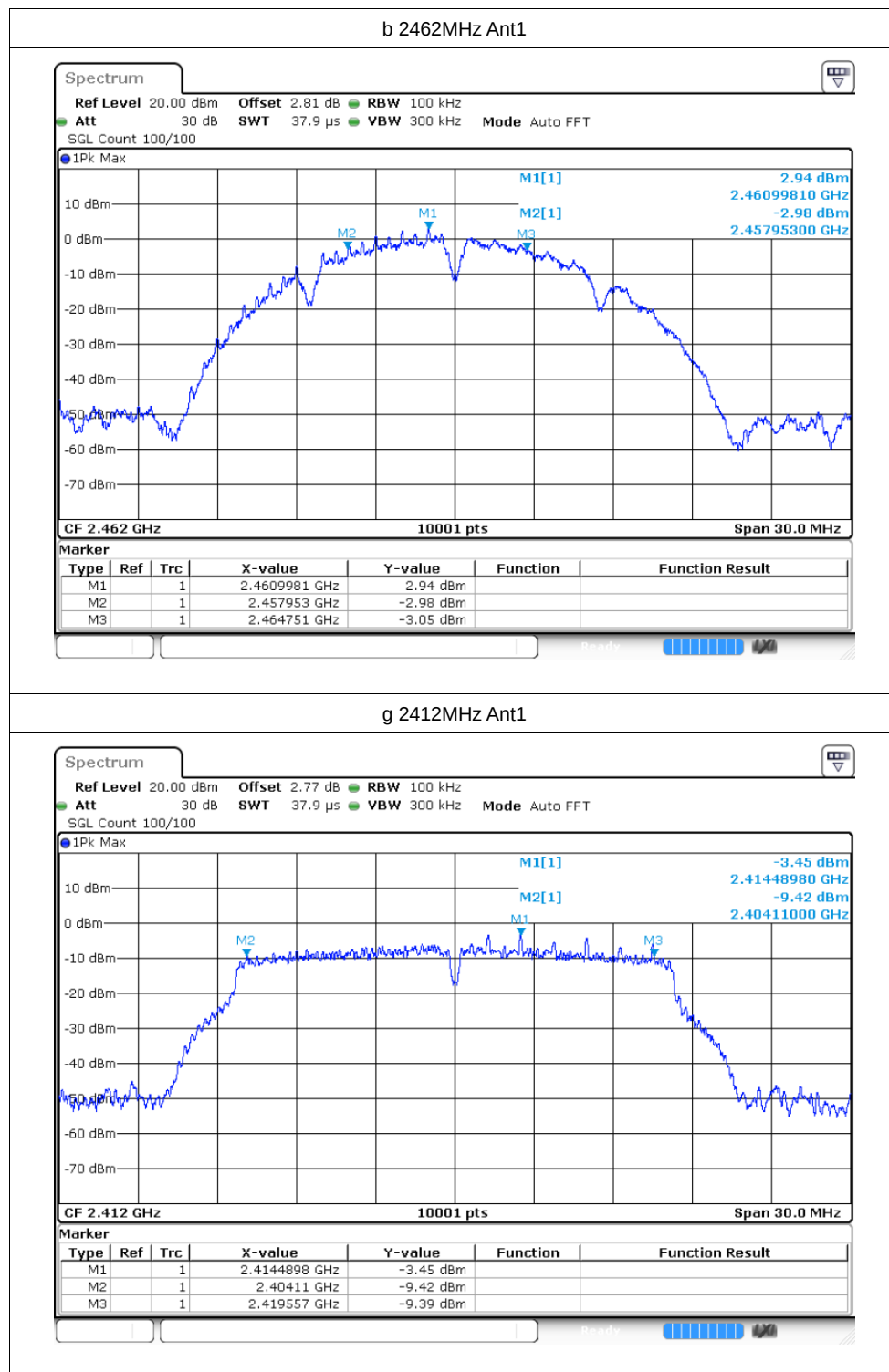
### 3 -6dB Bandwidth

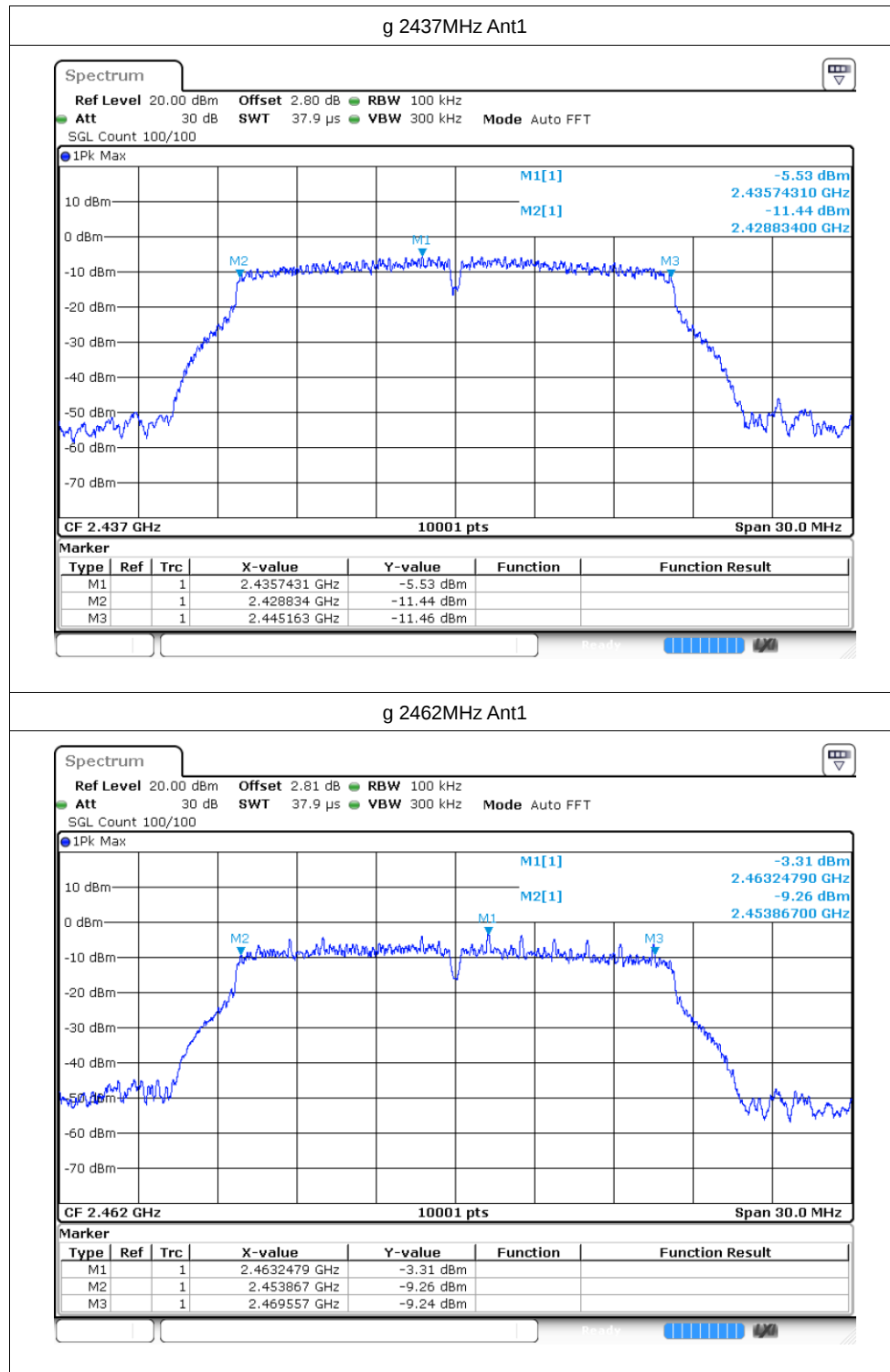
#### 3.1 Test Result

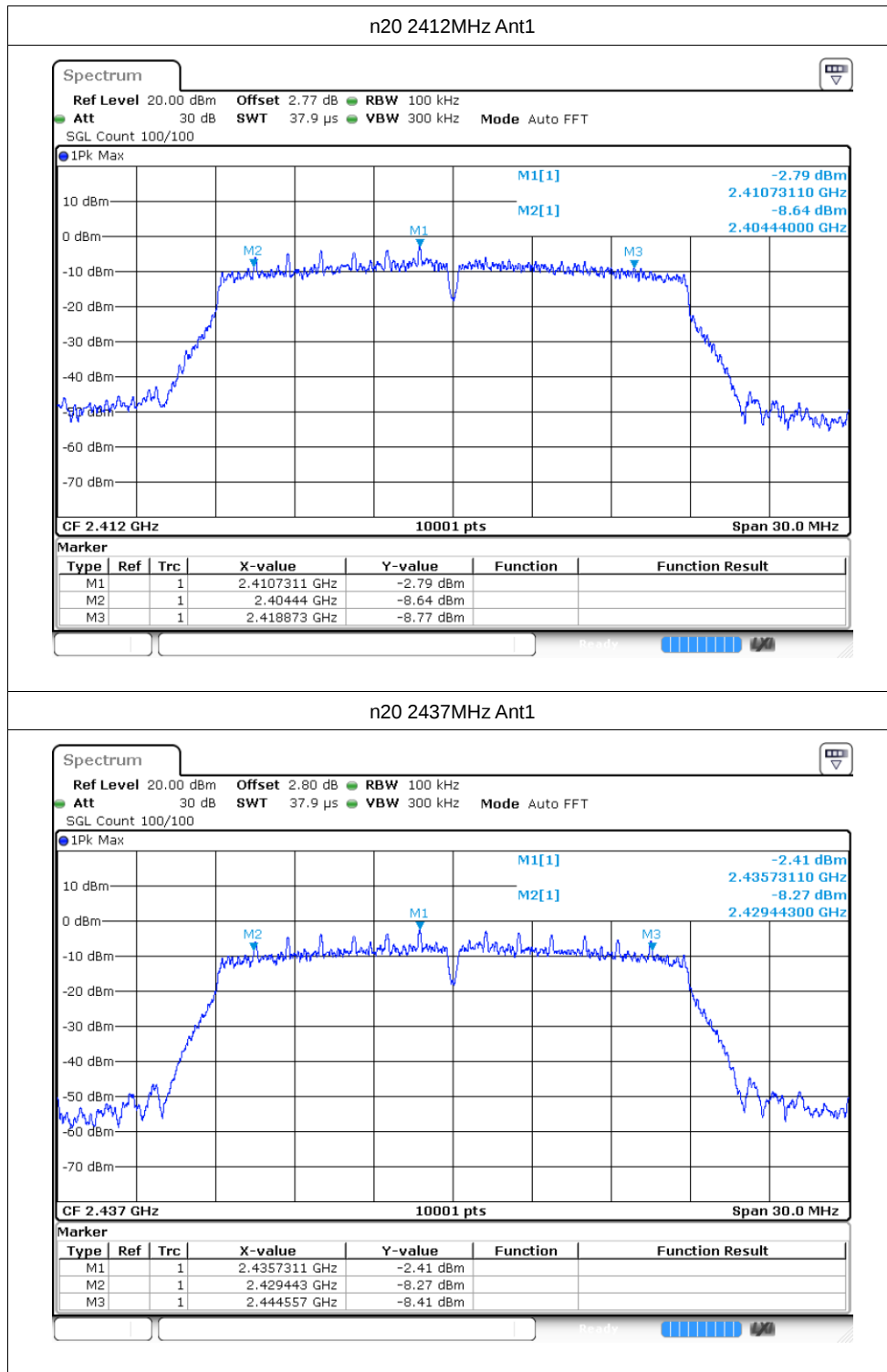
| Mode | Frequency (MHz) | Antenna | -6 dB Bandwidth (MHz) | Limit -6 dB Bandwidth (MHz) | Verdict |
|------|-----------------|---------|-----------------------|-----------------------------|---------|
| b    | 2412            | Ant1    | 8.061                 | 0.5                         | Pass    |
| b    | 2437            | Ant1    | 8.079                 | 0.5                         | Pass    |
| b    | 2462            | Ant1    | 6.798                 | 0.5                         | Pass    |
| g    | 2412            | Ant1    | 15.447                | 0.5                         | Pass    |
| g    | 2437            | Ant1    | 16.329                | 0.5                         | Pass    |
| g    | 2462            | Ant1    | 15.69                 | 0.5                         | Pass    |
| n20  | 2412            | Ant1    | 14.433                | 0.5                         | Pass    |
| n20  | 2437            | Ant1    | 15.114                | 0.5                         | Pass    |
| n20  | 2462            | Ant1    | 17.547                | 0.5                         | Pass    |
| n40  | 2422            | Ant1    | 35.364                | 0.5                         | Pass    |
| n40  | 2437            | Ant1    | 31.314                | 0.5                         | Pass    |
| n40  | 2452            | Ant1    | 33.846                | 0.5                         | Pass    |

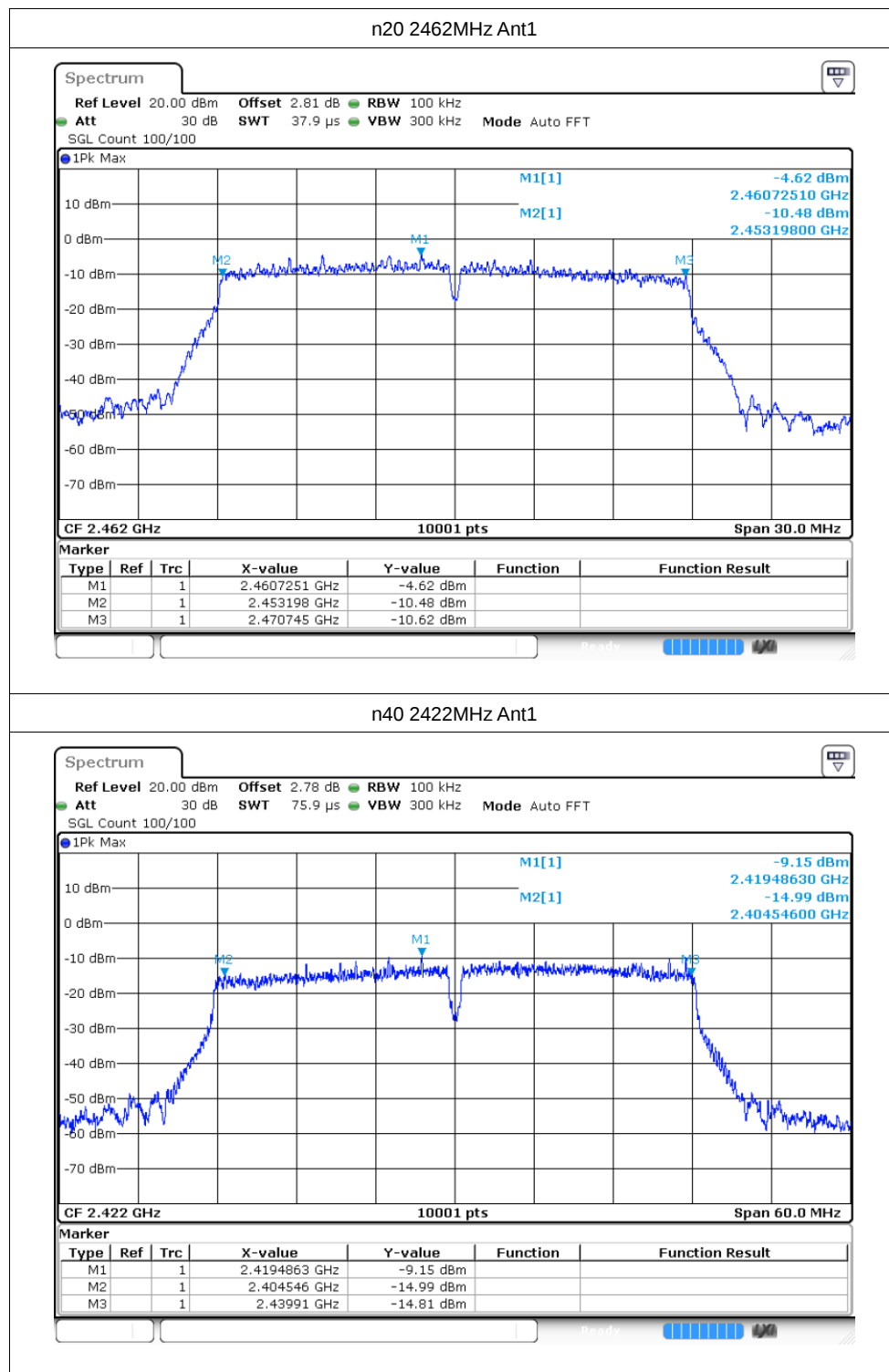
## 3.2 Test Graphs

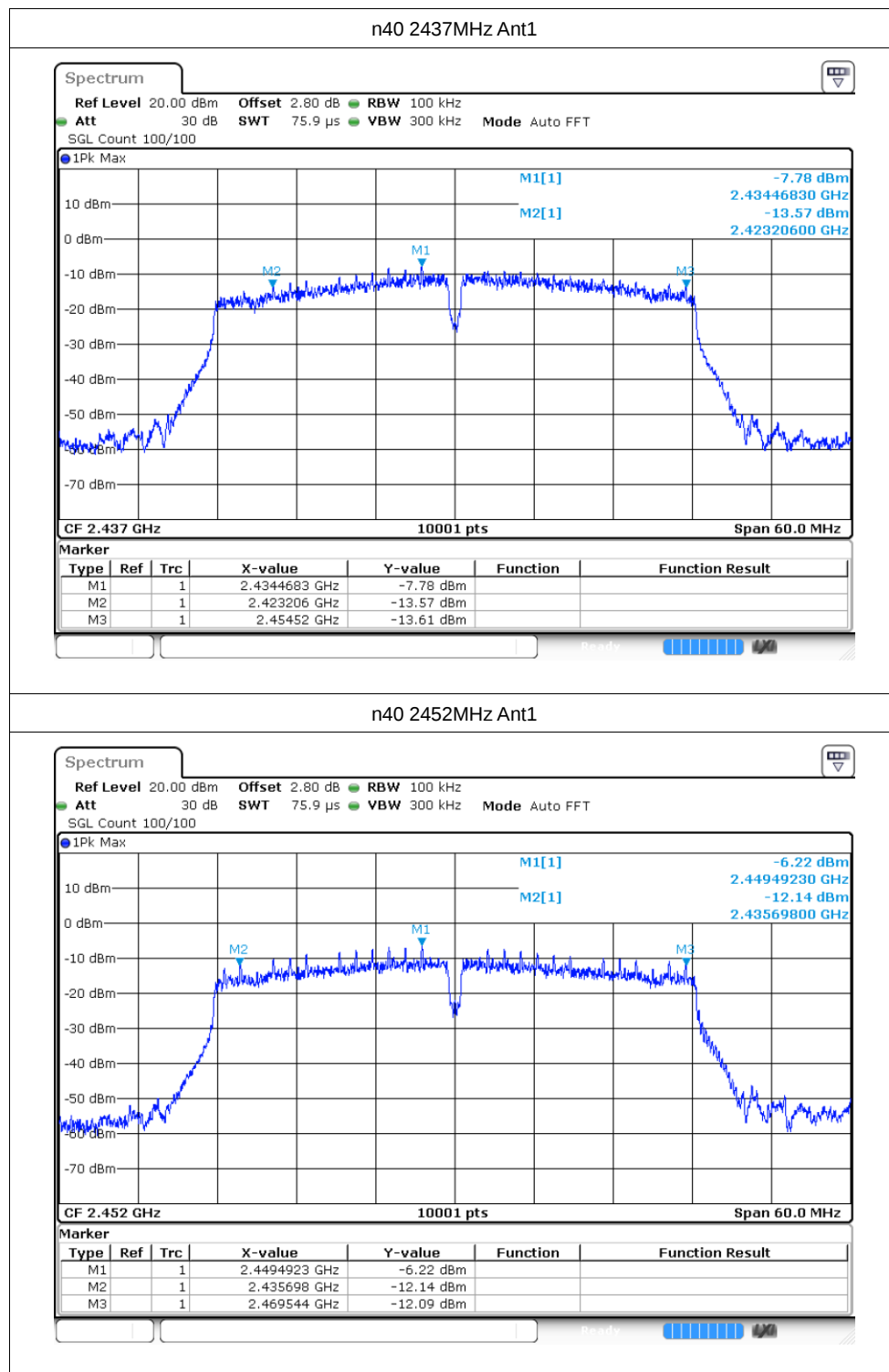










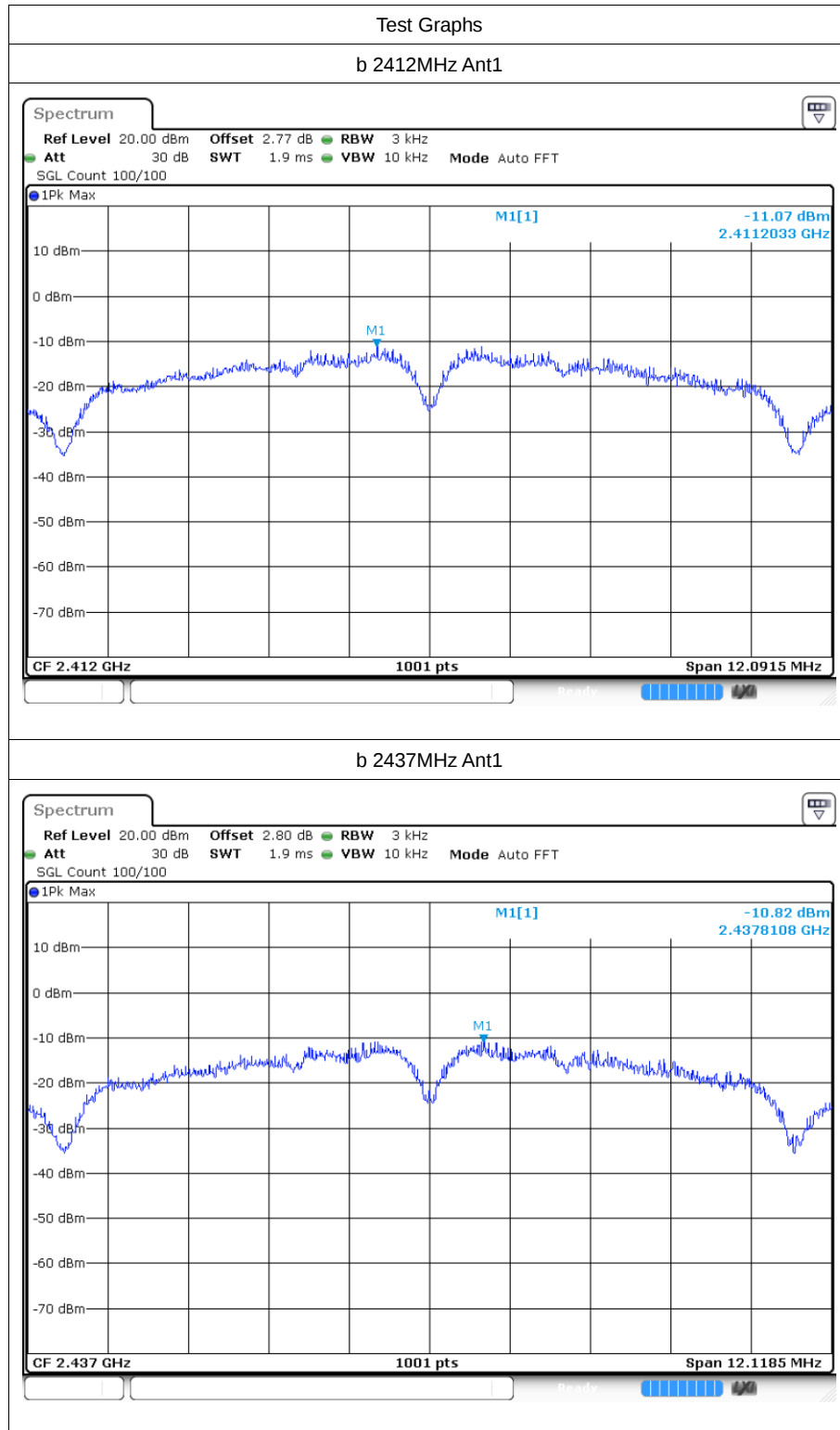


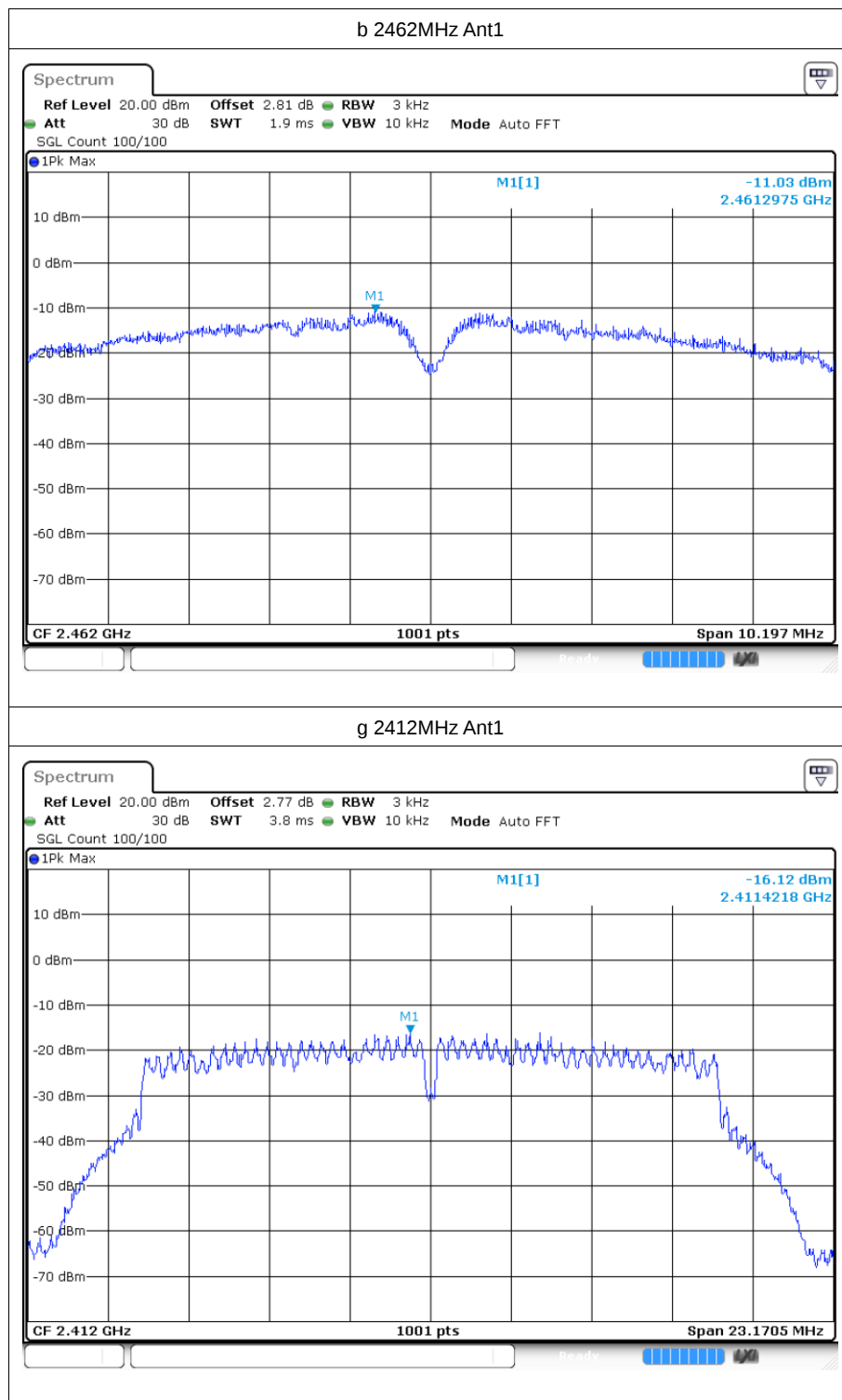
## 4 Maximum Power Spectral Density Level

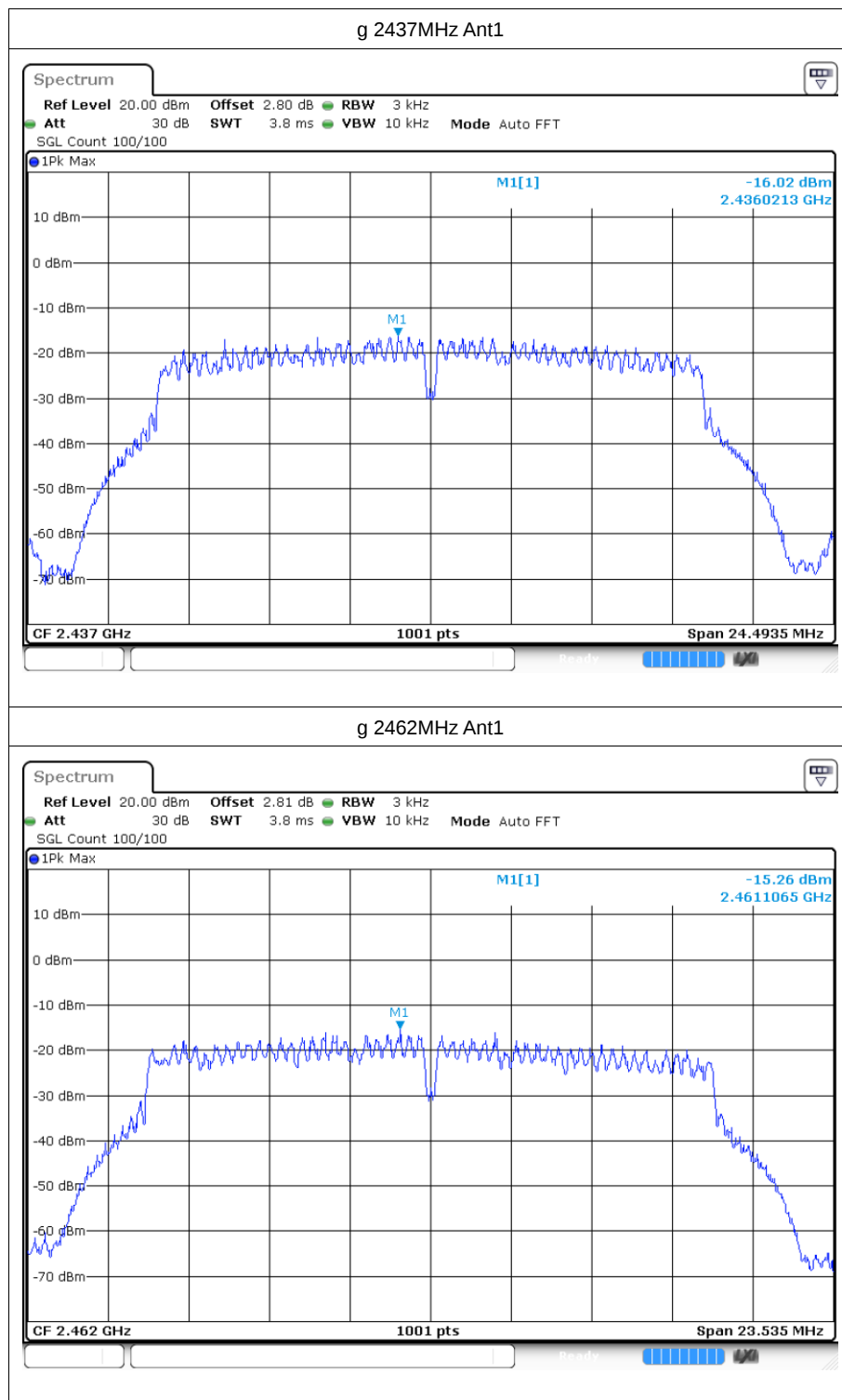
### 4.1 Test Result

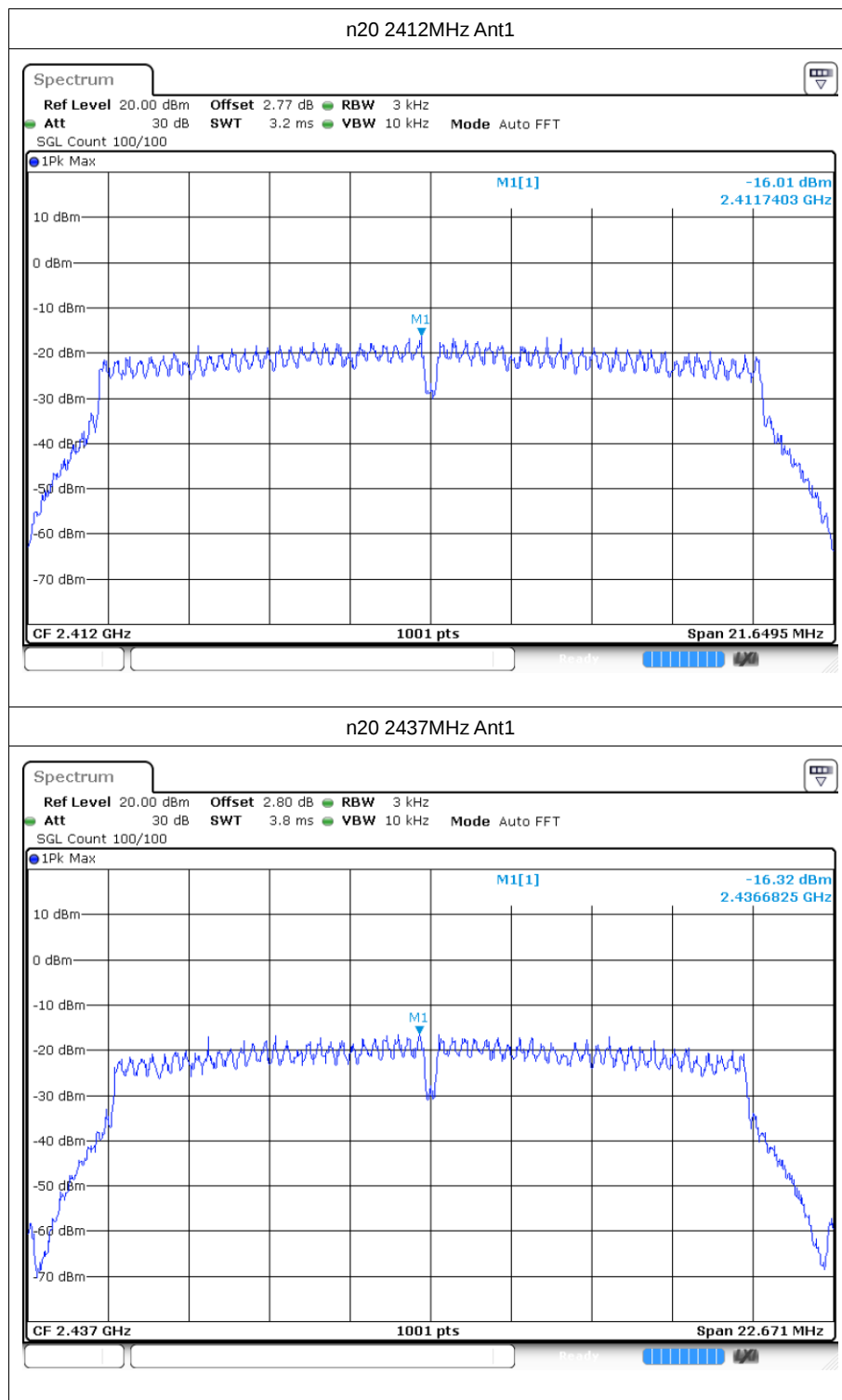
| Mode | Frequency (MHz) | Antenna | Conducted PSD<br>(dBm/3-100kHz) | Limit<br>(dBm/3kHz) | Verdict |
|------|-----------------|---------|---------------------------------|---------------------|---------|
| b    | 2412            | Ant1    | -11.07                          | ≤8                  | Pass    |
| b    | 2437            | Ant1    | -10.82                          | ≤8                  | Pass    |
| b    | 2462            | Ant1    | -11.03                          | ≤8                  | Pass    |
| g    | 2412            | Ant1    | -16.12                          | ≤8                  | Pass    |
| g    | 2437            | Ant1    | -16.02                          | ≤8                  | Pass    |
| g    | 2462            | Ant1    | -15.26                          | ≤8                  | Pass    |
| n20  | 2412            | Ant1    | -16.01                          | ≤8                  | Pass    |
| n20  | 2437            | Ant1    | -16.32                          | ≤8                  | Pass    |
| n20  | 2462            | Ant1    | -16.27                          | ≤8                  | Pass    |
| n40  | 2422            | Ant1    | -20.19                          | ≤8                  | Pass    |
| n40  | 2437            | Ant1    | -19.81                          | ≤8                  | Pass    |
| n40  | 2452            | Ant1    | -19.3                           | ≤8                  | Pass    |

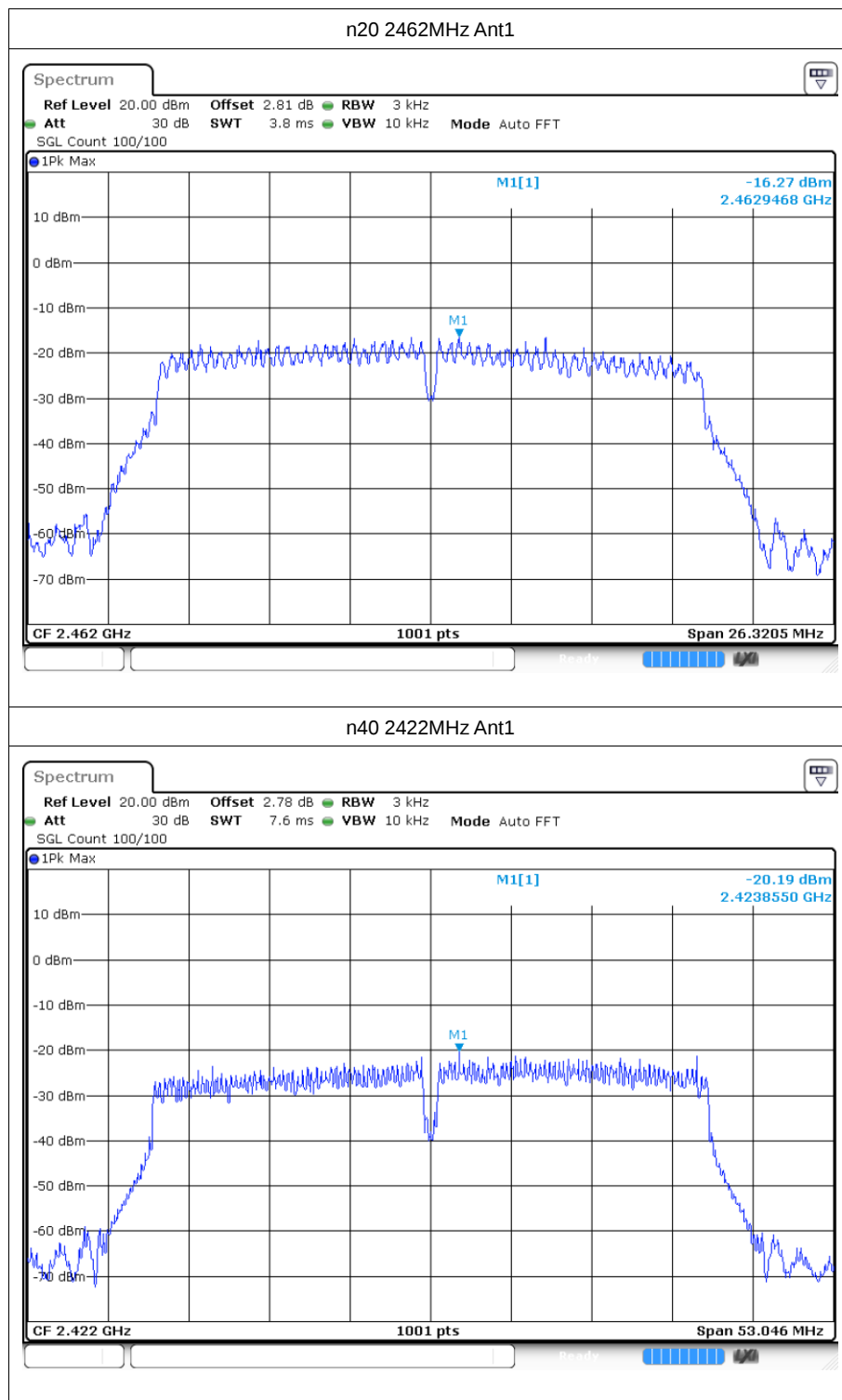
## 4.2 Test Graphs

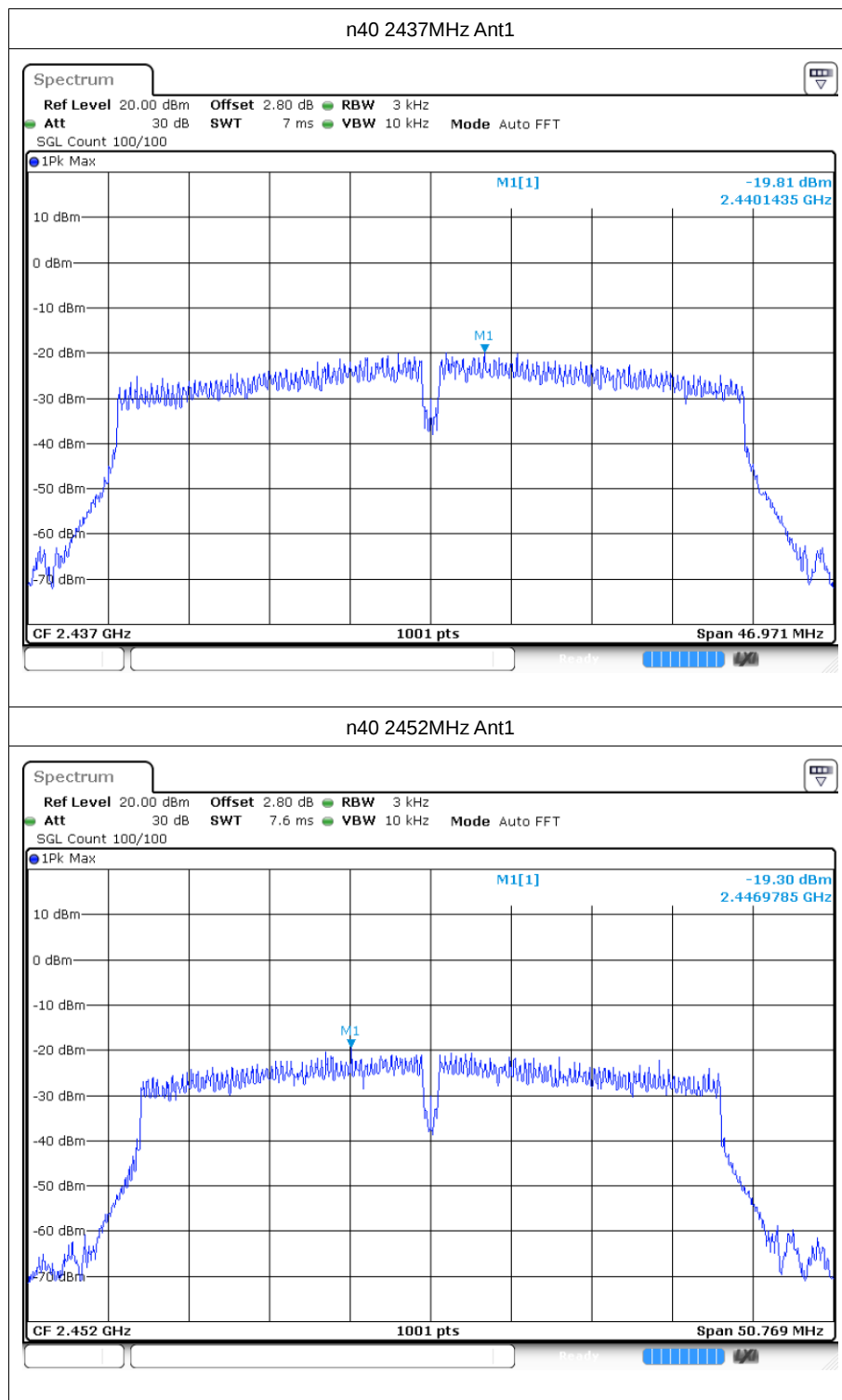














## 5 Band Edge

### 5.1 Test Result

| Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|------|-----------------|---------|-----------------|-------------|---------|
| b    | 2412            | Ant1    | -56.19          | -20         | Pass    |
| b    | 2462            | Ant1    | -56.92          | -20         | Pass    |
| g    | 2412            | Ant1    | -52.14          | -20         | Pass    |
| g    | 2462            | Ant1    | -49.42          | -20         | Pass    |
| n20  | 2412            | Ant1    | -50.32          | -20         | Pass    |
| n20  | 2462            | Ant1    | -50.78          | -20         | Pass    |
| n40  | 2422            | Ant1    | -47.86          | -20         | Pass    |
| n40  | 2452            | Ant1    | -46.61          | -20         | Pass    |

## 5.2 Test Graphs

