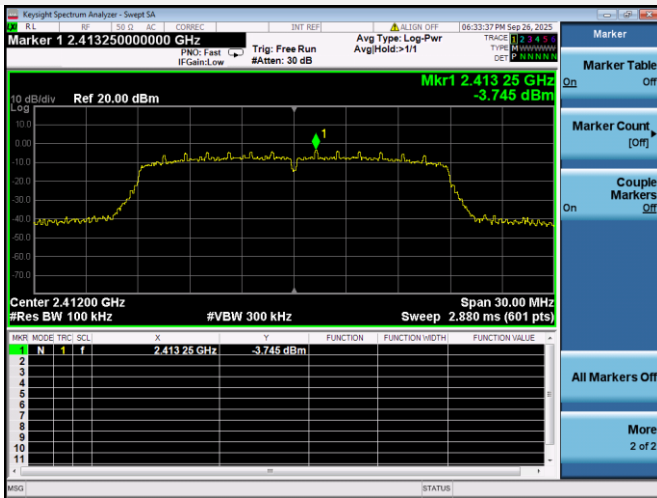
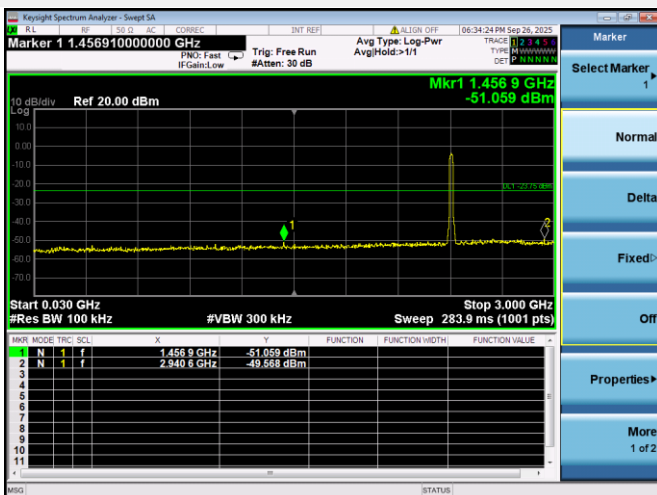
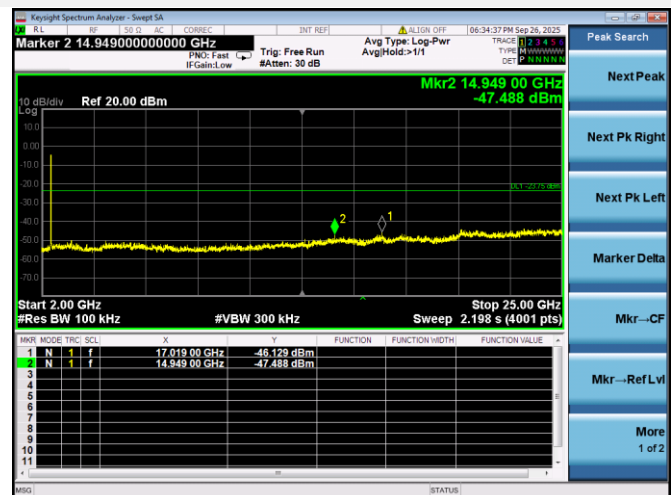
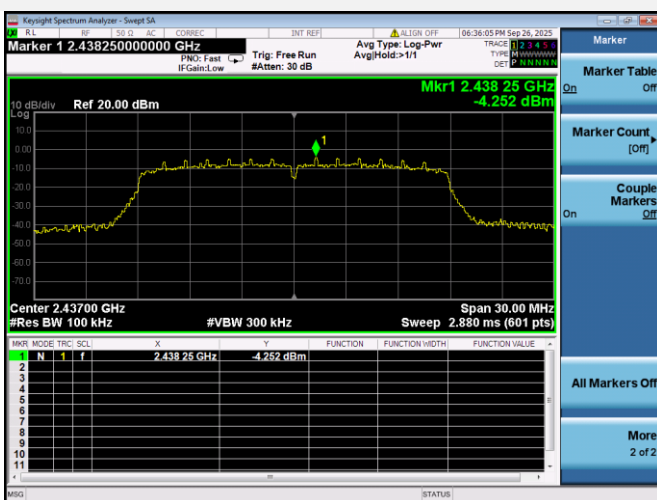


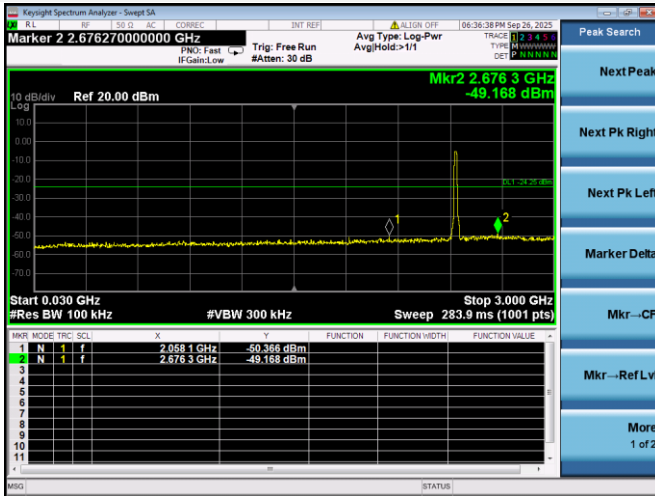
## 802.11n-20 MHz LOW CHANNEL CARRIER LEVEL

802.11n-20 MHz LOW CHANNEL, SPURIOUS  
30 MHz ~ 3 GHz802.11n-20 MHz LOW CHANNEL, SPURIOUS  
2 GHz ~ 25 GHz

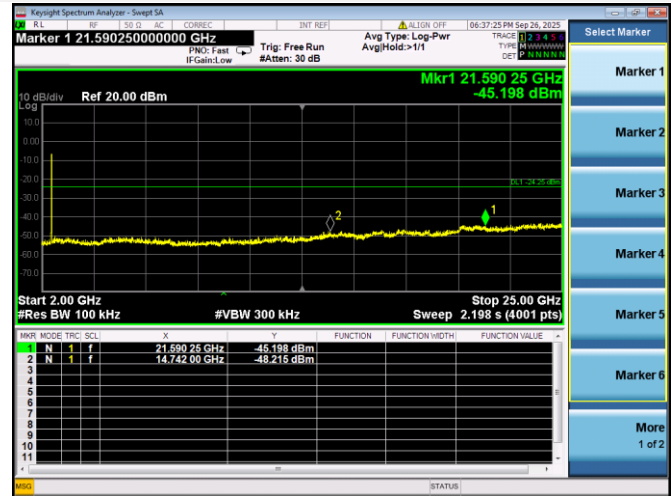
## 802.11n-20 MHz MIDDLE CHANNEL CARRIER LEVEL



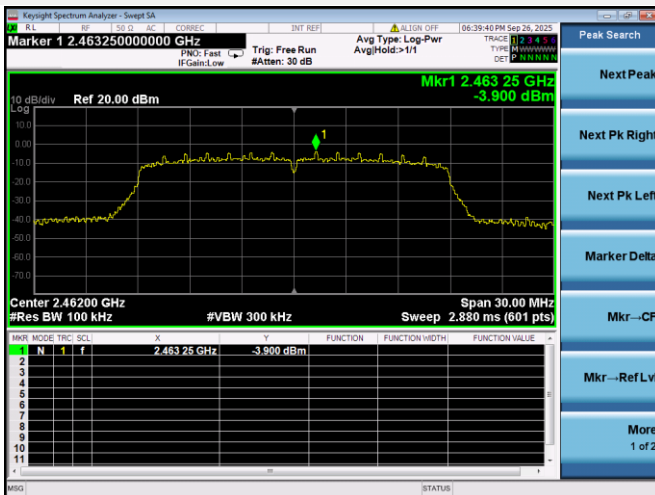
### 802.11n-20 MHz MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



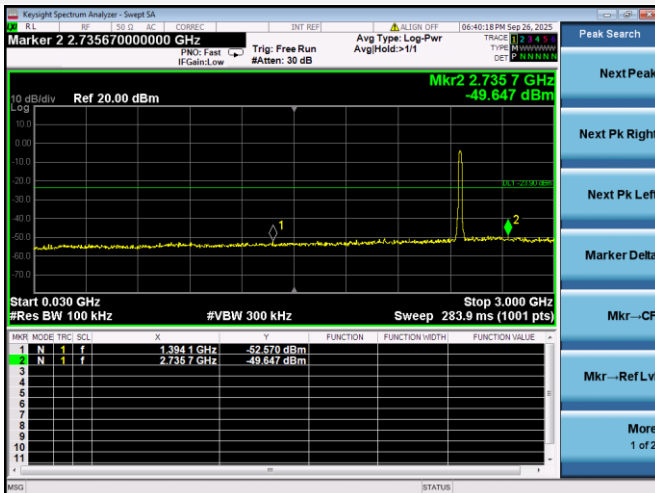
### 802.11n-20 MHz MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



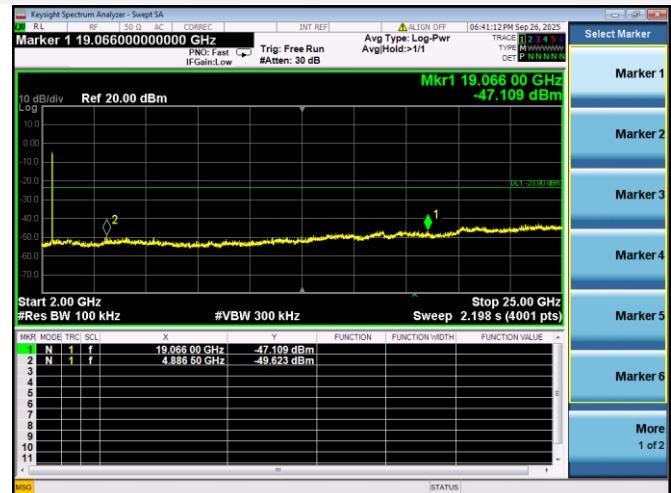
### 802.11n-20 MHz HIGH CHANNEL CARRIER LEVEL



### 802.11n-20 MHz HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



### 802.11n-20 MHz HIGH CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



## A.4 Band Edge (Authorized-band band-edge)

Note <sup>1</sup>: The 99% OBW of the fundamental emission is without 2 MHz of the authorized band.

### Test Data

802.11b Mode:

| Channel      | Measured Max.<br>Band Edge<br>Emission (dBm) | Limit (dBm)   |                            | Verdict |
|--------------|----------------------------------------------|---------------|----------------------------|---------|
|              |                                              | Carrier Level | Calculated 20<br>dBc Limit |         |
| Low Channel  | -49.72                                       | -0.68         | -20.68                     | Pass    |
| High Channel | -50.61                                       | -0.88         | -20.88                     | Pass    |

802.11g Mode:

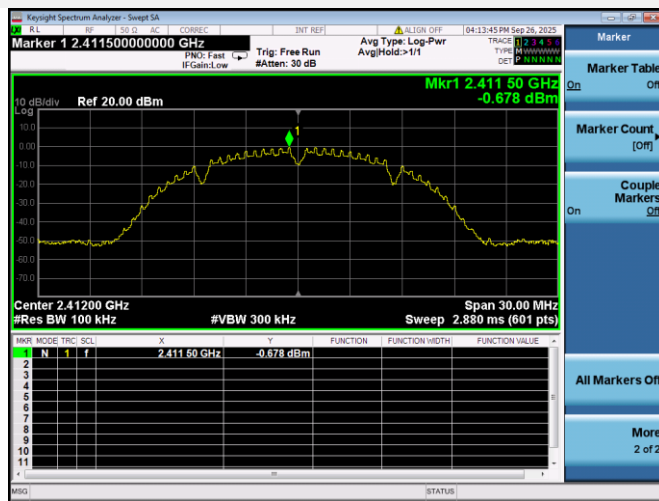
| Channel      | Measured Max.<br>Band Edge<br>Emission (dBm) | Limit (dBm)   |                            | Verdict |
|--------------|----------------------------------------------|---------------|----------------------------|---------|
|              |                                              | Carrier Level | Calculated 20<br>dBc Limit |         |
| Low Channel  | -36.79                                       | -3.48         | -23.48                     | Pass    |
| High Channel | -50.45                                       | -3.77         | -23.77                     | Pass    |

802.11n-20 MHz Mode:

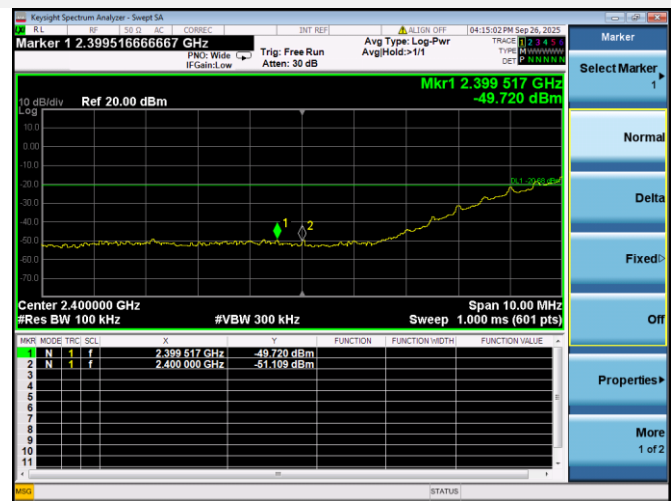
| Channel      | Measured Max.<br>Band Edge<br>Emission (dBm) | Limit (dBm)   |                            | Verdict |
|--------------|----------------------------------------------|---------------|----------------------------|---------|
|              |                                              | Carrier Level | Calculated 20<br>dBc Limit |         |
| Low Channel  | -39.41                                       | -3.75         | -23.75                     | Pass    |
| High Channel | -50.01                                       | -3.90         | -23.90                     | Pass    |

## Test Plots

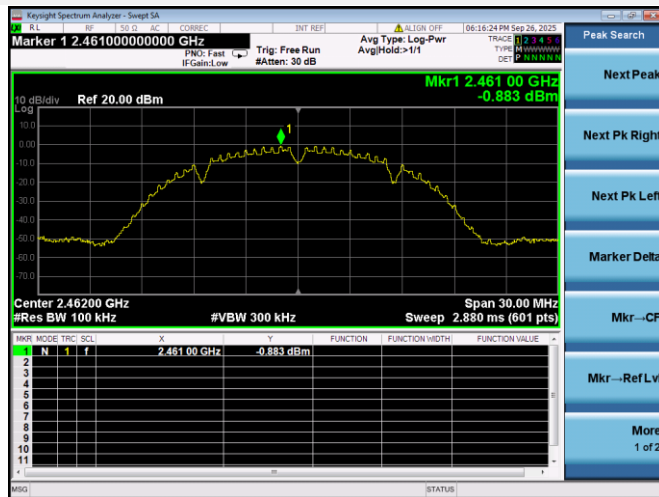
### 802.11b LOW CHANNEL, CARRIER LEVEL



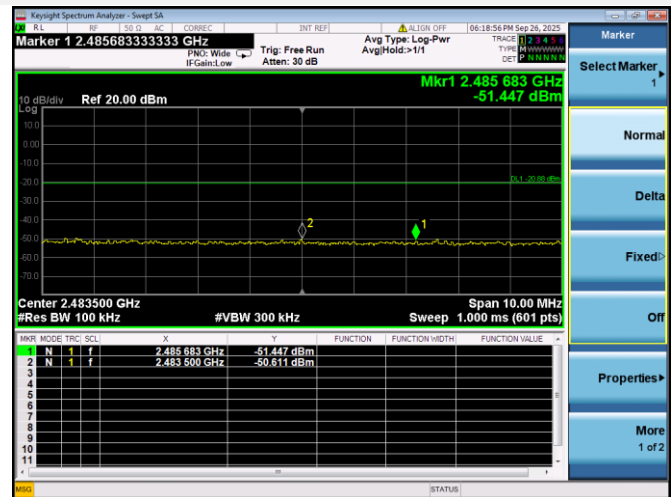
### 802.11b LOW CHANNEL, BAND EDGE



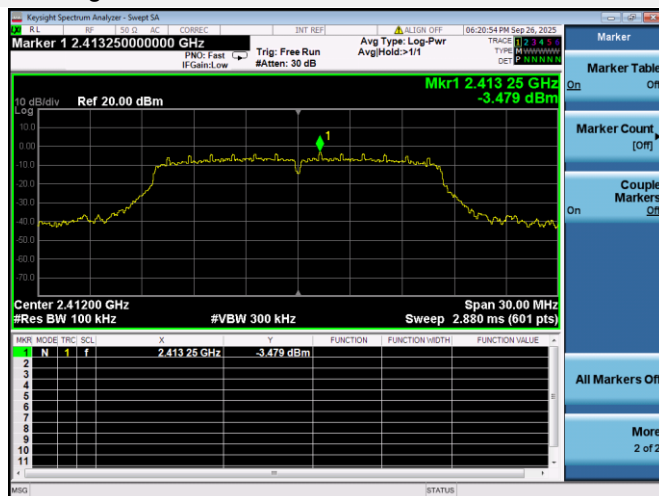
### 802.11b HIGH CHANNEL, CARRIER LEVEL



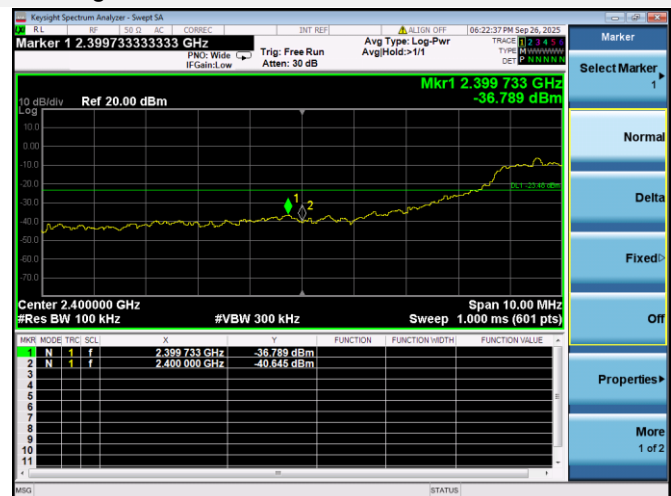
### 802.11b HIGH CHANNEL, BAND EDGE



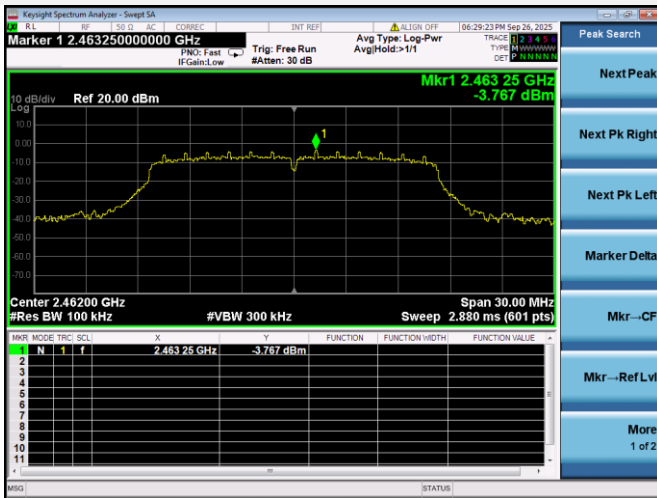
### 802.11g LOW CHANNEL, CARRIER LEVEL



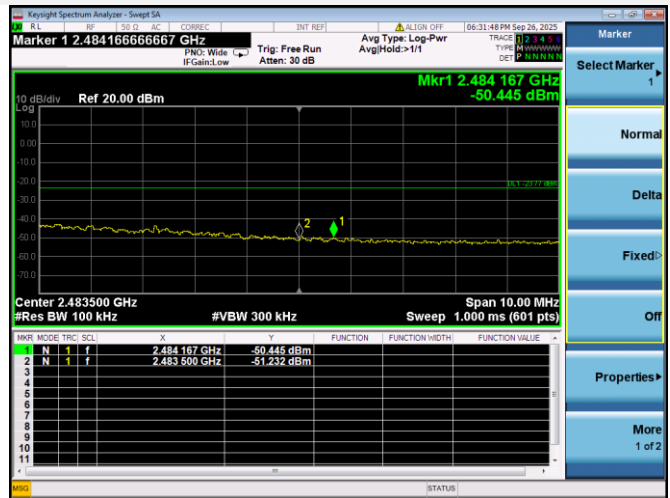
### 802.11g LOW CHANNEL, BAND EDGE



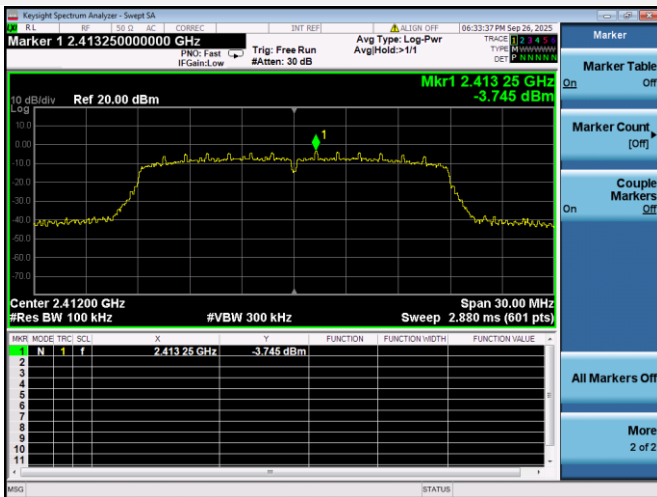
## 802.11g HIGH CHANNEL, CARRIER LEVEL



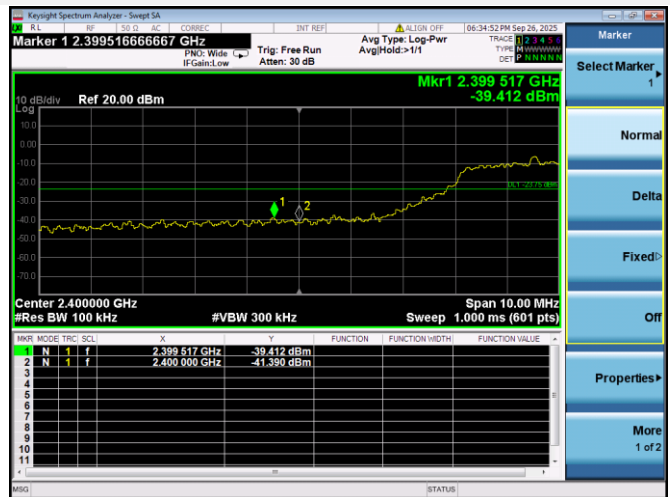
## 802.11g HIGH CHANNEL, BAND EDGE



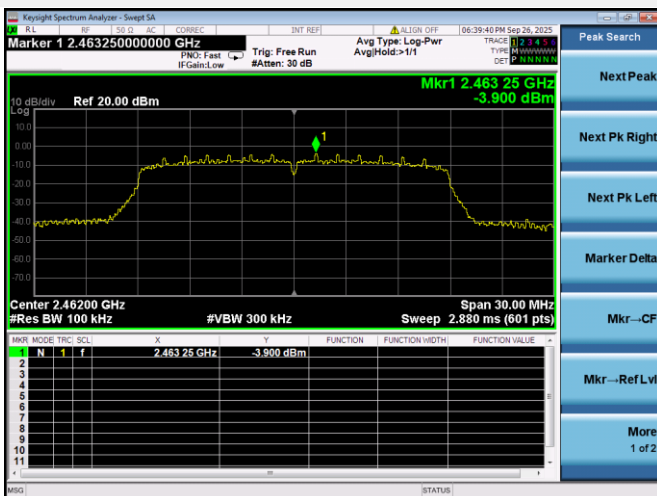
## 802.11n-20 MHz LOW CHANNEL, CARRIER LEVEL



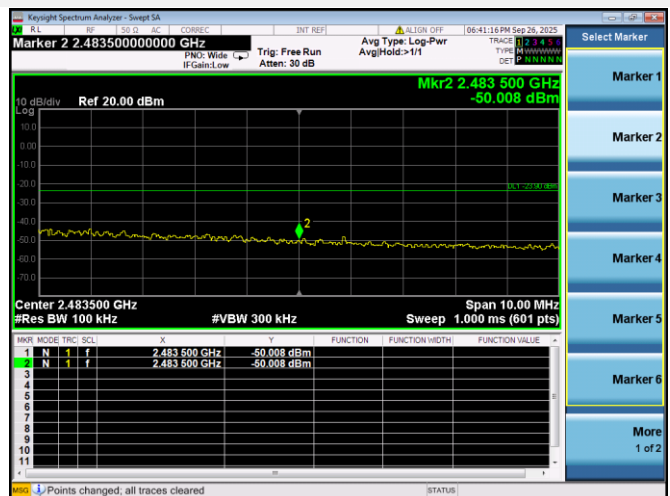
## 802.11n-20 MHz LOW CHANNEL, BAND EDGE



## 802.11n-20 MHz HIGH CHANNEL, CARRIER LEVEL



## 802.11n-20 MHz HIGH CHANNEL, BAND EDGE



## A.5 Conducted Emissions

Note<sup>1</sup>: The EUT is working in the Normal link mode. All modes have been tested and normal link mode is worst.

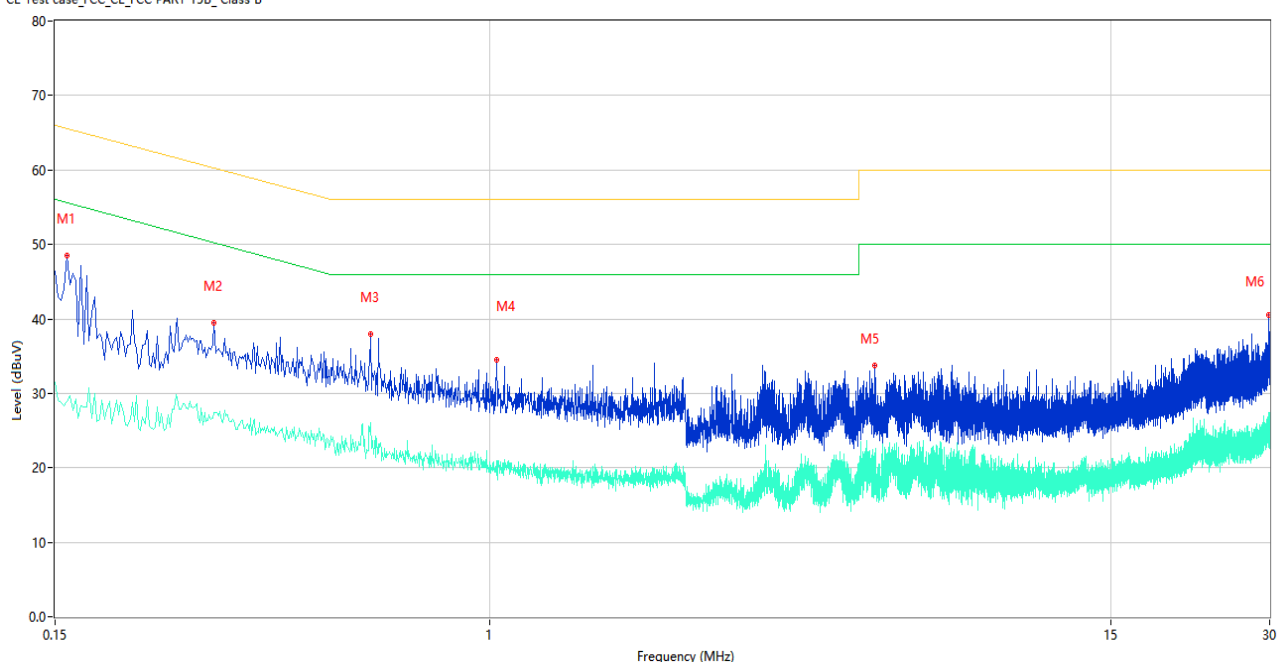
Note<sup>2</sup>: Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 60 Hz and 240 VAC, 50 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration (120 VAC, 60 Hz) shown here.

Note<sup>3</sup>: Results (dBuV) = Original reading level of Spectrum Analyzer (dBuV) + Factor (dB)

### Test Data and Plots

#### PHASE L

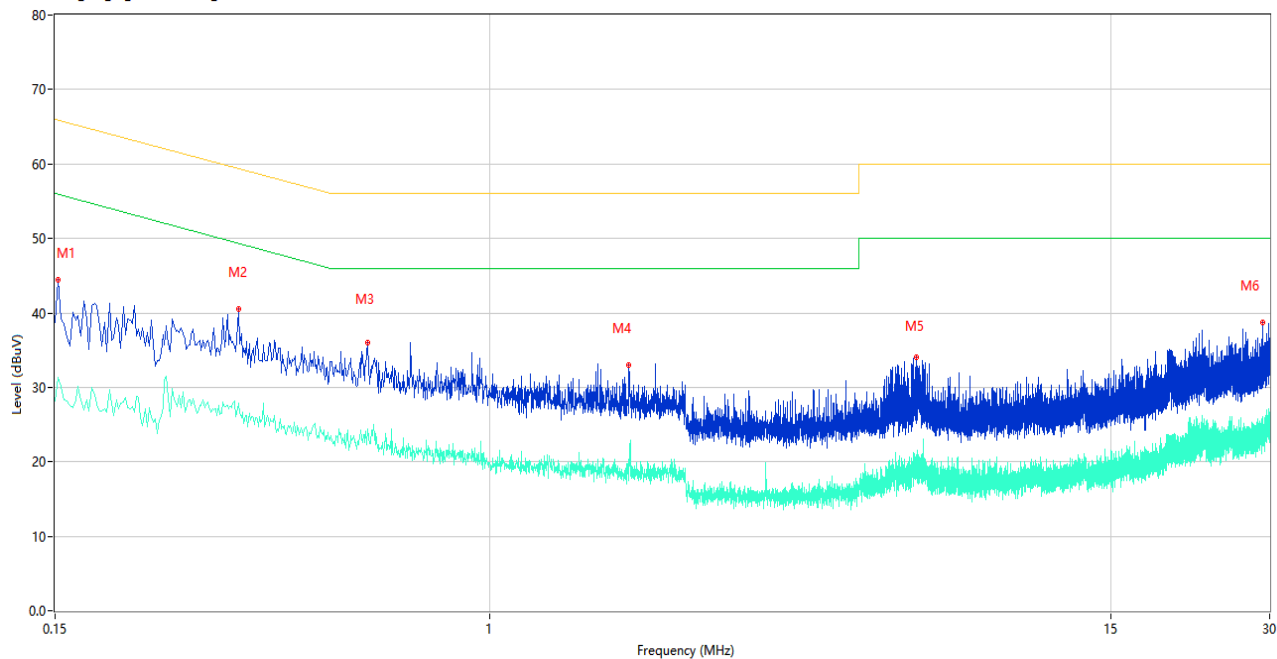
CE Test case\_FCC\_CE\_FCC PART 15B\_Class B



| No. | Frequency (MHz) | Results (dBuV) | Factor (dB) | Limit (dBuV) | Margin (dB) | Detector | Line | Verdict |
|-----|-----------------|----------------|-------------|--------------|-------------|----------|------|---------|
| 1   | 0.158           | 48.59          | 10.30       | 65.57        | 16.98       | Peak     | L    | Pass    |
| 1** | 0.158           | 28.98          | 10.30       | 55.57        | 26.59       | AV       | L    | Pass    |
| 2   | 0.300           | 39.41          | 10.26       | 60.24        | 20.83       | Peak     | L    | Pass    |
| 2** | 0.300           | 27.35          | 10.26       | 50.24        | 22.89       | AV       | L    | Pass    |
| 3   | 0.594           | 37.93          | 10.29       | 56.00        | 18.07       | Peak     | L    | Pass    |
| 3** | 0.594           | 26.01          | 10.29       | 46.00        | 19.99       | AV       | L    | Pass    |
| 4   | 1.028           | 34.53          | 10.33       | 56.00        | 21.47       | Peak     | L    | Pass    |
| 4** | 1.028           | 20.88          | 10.33       | 46.00        | 25.12       | AV       | L    | Pass    |
| 5   | 5.368           | 33.82          | 10.93       | 60.00        | 26.18       | Peak     | L    | Pass    |
| 5** | 5.368           | 17.71          | 10.93       | 50.00        | 32.29       | AV       | L    | Pass    |
| 6   | 29.918          | 40.51          | 16.42       | 60.00        | 19.49       | Peak     | L    | Pass    |
| 6** | 29.918          | 25.62          | 16.42       | 50.00        | 24.38       | AV       | L    | Pass    |

## PHASE N

CE Test case\_FCC\_CE\_FCC PART 15B\_Class B



| No. | Frequency (MHz) | Results (dBuV) | Factor (dB) | Limit (dBuV) | Margin (dB) | Detector | Line | Verdict |
|-----|-----------------|----------------|-------------|--------------|-------------|----------|------|---------|
| 1   | 0.152           | 44.50          | 10.21       | 65.89        | 21.39       | Peak     | N    | Pass    |
| 1** | 0.152           | 31.31          | 10.21       | 55.89        | 24.58       | AV       | N    | Pass    |
| 2   | 0.334           | 40.46          | 10.18       | 59.35        | 18.89       | Peak     | N    | Pass    |
| 2** | 0.334           | 27.83          | 10.18       | 49.35        | 21.52       | AV       | N    | Pass    |
| 3   | 0.586           | 36.07          | 10.20       | 56.00        | 19.93       | Peak     | N    | Pass    |
| 3** | 0.586           | 24.37          | 10.20       | 46.00        | 21.63       | AV       | N    | Pass    |
| 4   | 1.834           | 33.02          | 10.33       | 56.00        | 22.98       | Peak     | N    | Pass    |
| 4** | 1.834           | 19.48          | 10.33       | 46.00        | 26.52       | AV       | N    | Pass    |
| 5   | 6.418           | 34.01          | 11.02       | 60.00        | 25.99       | Peak     | N    | Pass    |
| 5** | 6.418           | 20.79          | 11.02       | 50.00        | 29.21       | AV       | N    | Pass    |
| 6   | 29.134          | 38.75          | 16.29       | 60.00        | 21.25       | Peak     | N    | Pass    |
| 6** | 29.134          | 24.13          | 16.29       | 50.00        | 25.87       | AV       | N    | Pass    |

## A.6 Radiated Emission

Note<sup>1</sup>: The symbol of “--” in the table which means not application.

Note<sup>2</sup>: For the test data above 1 GHz, According the ANSI C63.10-2020, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

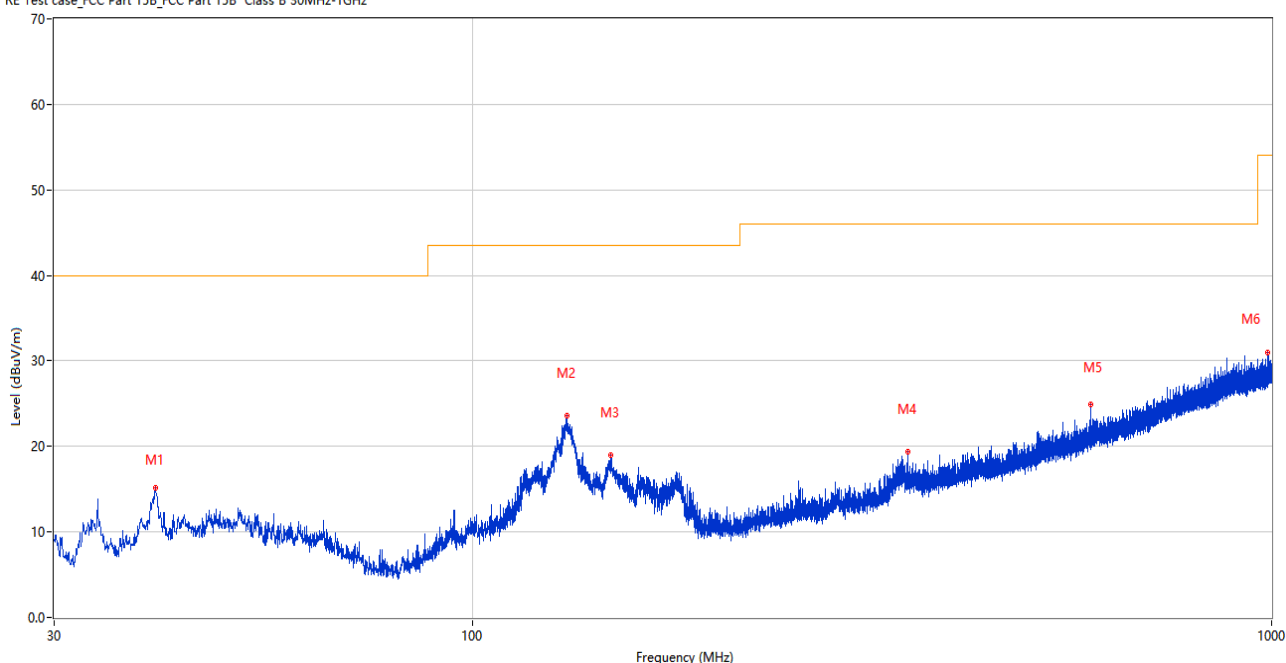
Note<sup>3</sup>: The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

Note<sup>4</sup>: The EUT is working in the Normal link mode below 1 GHz. All modes have been tested and normal link mode is worst.

### Test Data and Plots

#### 30 MHz to 1 GHz, ANT H

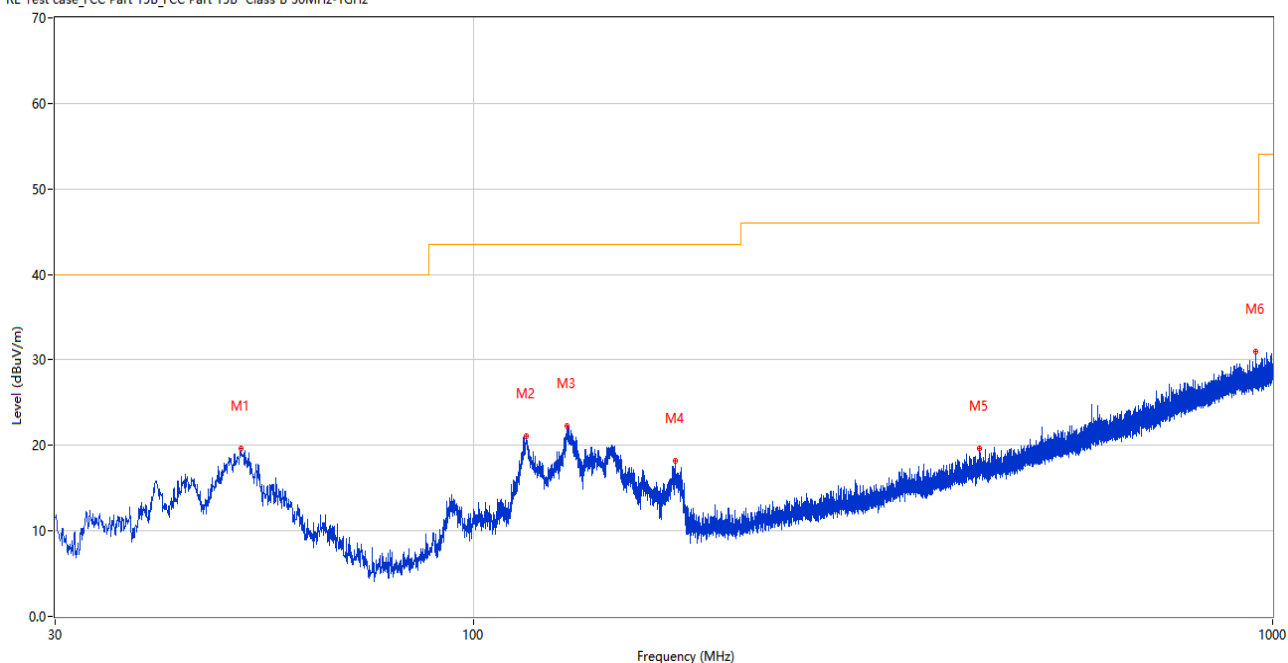
RE Test case\_FCC Part 15B\_FCC Part 15B Class B 30MHz-1GHz



| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna    | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|----------------|-------------|------------|---------|
| 1   | 40.136          | 15.11            | -26.84      | 40.0           | 24.89       | Peak     | 197.00         | 100         | Horizontal | Pass    |
| 2   | 131.462         | 23.57            | -29.94      | 43.5           | 19.93       | Peak     | 146.00         | 200         | Horizontal | Pass    |
| 3   | 149.165         | 18.96            | -30.10      | 43.5           | 24.54       | Peak     | 335.00         | 200         | Horizontal | Pass    |
| 4   | 350.391         | 19.34            | -21.93      | 46.0           | 26.66       | Peak     | 7.00           | 100         | Horizontal | Pass    |
| 5   | 594.006         | 24.94            | -16.08      | 46.0           | 21.06       | Peak     | 316.00         | 100         | Horizontal | Pass    |
| 6   | 988.214         | 31.04            | -8.52       | 54.0           | 22.96       | Peak     | 43.00          | 100         | Horizontal | Pass    |

## 30 MHz to 1 GHz, ANT V

RE Test case\_FCC Part 15B\_FCC Part 15B Class B 30MHz-1GHz



| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna  | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|----------------|-------------|----------|---------|
| 1   | 51.194          | 19.61            | -24.17      | 40.0           | 20.39       | Peak     | 150.00         | 100         | Vertical | Pass    |
| 2   | 116.573         | 21.15            | -27.50      | 43.5           | 22.35       | Peak     | 222.00         | 100         | Vertical | Pass    |
| 3   | 131.122         | 22.27            | -29.88      | 43.5           | 21.23       | Peak     | 222.00         | 100         | Vertical | Pass    |
| 4   | 178.944         | 18.24            | -28.48      | 43.5           | 25.26       | Peak     | 248.00         | 100         | Vertical | Pass    |
| 5   | 429.834         | 19.65            | -20.23      | 46.0           | 26.35       | Peak     | 0.00           | 100         | Vertical | Pass    |
| 6   | 952.470         | 30.97            | -9.25       | 46.0           | 15.03       | Peak     | 111.00         | 100         | Vertical | Pass    |

Note <sup>1</sup>: The marked spikes near 2400 MHz with circle should be ignored because they are Fundamental signal.

Note <sup>2</sup>: The spurious above 18G is noise only, do not show on the report.

#### 1 GHz to 18 GHz, ANT H 802.11b Low Channel

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna    | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|----------------|-------------|------------|---------|
| 1   | 1396.600        | 41.58            | -17.31      | 74.0           | 32.42       | Peak     | 160.00         | 100         | Horizontal | Pass    |
| 1** | 1396.600        | 32.80            | -17.31      | 54.0           | 21.20       | AV       | 160.00         | 100         | Horizontal | Pass    |
| 2   | 2412.200        | 93.76            | -12.88      | 74.0           | -19.76      | Peak     | 166.00         | 200         | Horizontal | N/A     |
| 2** | 2412.200        | 84.55            | -12.88      | 54.0           | -30.55      | AV       | 166.00         | 200         | Horizontal | N/A     |
| 3   | 2967.300        | 50.77            | -10.20      | 74.0           | 23.23       | Peak     | 140.00         | 150         | Horizontal | Pass    |
| 3** | 2967.300        | 41.51            | -10.20      | 54.0           | 12.49       | AV       | 140.00         | 150         | Horizontal | Pass    |
| 4   | 4824.200        | 48.00            | -3.44       | 74.0           | 26.00       | Peak     | 0.00           | 300         | Horizontal | Pass    |
| 4** | 4824.200        | 42.72            | -3.44       | 54.0           | 11.28       | AV       | 0.00           | 300         | Horizontal | Pass    |
| 5   | 6993.600        | 52.65            | -0.33       | 74.0           | 21.35       | Peak     | 0.00           | 400         | Horizontal | Pass    |
| 5** | 6993.600        | 44.34            | -0.33       | 54.0           | 9.66        | AV       | 0.00           | 400         | Horizontal | Pass    |
| 6   | 16164.862       | 53.70            | 5.67        | 74.0           | 20.30       | Peak     | 287.00         | 200         | Horizontal | Pass    |
| 6** | 16164.862       | 44.32            | 5.67        | 54.0           | 9.68        | AV       | 287.00         | 200         | Horizontal | Pass    |

#### 1 GHz to 18 GHz, ANT V 802.11b Low Channel

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna  | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|----------------|-------------|----------|---------|
| 1   | 1420.700        | 41.67            | -17.31      | 74.0           | 32.33       | Peak     | 150.00         | 200         | Vertical | Pass    |
| 1** | 1420.700        | 32.66            | -17.31      | 54.0           | 21.34       | AV       | 150.00         | 200         | Vertical | Pass    |
| 2   | 2411.800        | 95.88            | -12.91      | 74.0           | -21.88      | Peak     | 176.00         | 100         | Vertical | N/A     |
| 2** | 2411.800        | 87.29            | -12.91      | 54.0           | -33.29      | AV       | 176.00         | 100         | Vertical | N/A     |
| 3   | 2983.700        | 51.27            | -10.17      | 74.0           | 22.73       | Peak     | 77.00          | 100         | Vertical | Pass    |
| 3** | 2983.700        | 41.92            | -10.17      | 54.0           | 12.08       | AV       | 77.00          | 100         | Vertical | Pass    |
| 4   | 4824.200        | 49.01            | -3.44       | 74.0           | 24.99       | Peak     | 78.00          | 300         | Vertical | Pass    |
| 4** | 4824.200        | 45.87            | -3.44       | 54.0           | 8.13        | AV       | 78.00          | 300         | Vertical | Pass    |
| 5   | 6997.600        | 52.96            | -0.43       | 74.0           | 21.04       | Peak     | 189.00         | 200         | Vertical | Pass    |
| 5** | 6997.600        | 43.96            | -0.43       | 54.0           | 10.04       | AV       | 189.00         | 200         | Vertical | Pass    |
| 6   | 16101.075       | 53.71            | 5.62        | 74.0           | 20.29       | Peak     | 58.00          | 200         | Vertical | Pass    |
| 6** | 16101.075       | 44.46            | 5.62        | 54.0           | 9.54        | AV       | 58.00          | 200         | Vertical | Pass    |

## 1 GHz to 18 GHz, ANT H 802.11b Middle Channel

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna    | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|----------------|-------------|------------|---------|
| 1   | 1585.000        | 41.53            | -17.50      | 74.0           | 32.47       | Peak     | 241.00         | 300         | Horizontal | Pass    |
| 1** | 1585.000        | 32.54            | -17.50      | 54.0           | 21.46       | AV       | 241.00         | 300         | Horizontal | Pass    |
| 2   | 2437.200        | 90.10            | -11.83      | 74.0           | -16.10      | Peak     | 181.00         | 200         | Horizontal | N/A     |
| 2** | 2437.200        | 82.90            | -11.83      | 54.0           | -28.90      | AV       | 181.00         | 200         | Horizontal | N/A     |
| 3   | 2989.400        | 50.36            | -10.02      | 74.0           | 23.64       | Peak     | 357.00         | 200         | Horizontal | Pass    |
| 3** | 2989.400        | 41.78            | -10.02      | 54.0           | 12.22       | AV       | 357.00         | 200         | Horizontal | Pass    |
| 4   | 4874.000        | 48.46            | -3.50       | 74.0           | 25.54       | Peak     | 126.00         | 150         | Horizontal | Pass    |
| 4** | 4874.000        | 43.60            | -3.50       | 54.0           | 10.40       | AV       | 126.00         | 150         | Horizontal | Pass    |
| 5   | 6935.800        | 53.55            | -0.64       | 74.0           | 20.45       | Peak     | 261.00         | 400         | Horizontal | Pass    |
| 5** | 6935.800        | 43.84            | -0.64       | 54.0           | 10.16       | AV       | 261.00         | 400         | Horizontal | Pass    |
| 6   | 14906.174       | 53.56            | 4.48        | 74.0           | 20.44       | Peak     | 181.00         | 100         | Horizontal | Pass    |
| 6** | 14906.174       | 43.70            | 4.48        | 54.0           | 10.30       | AV       | 181.00         | 100         | Horizontal | Pass    |

## 1 GHz to 18 GHz, ANT V 802.11b Middle Channel

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna  | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|----------------|-------------|----------|---------|
| 1   | 1577.500        | 41.96            | -17.45      | 74.0           | 32.04       | Peak     | 7.00           | 400         | Vertical | Pass    |
| 1** | 1577.500        | 32.82            | -17.45      | 54.0           | 21.18       | AV       | 7.00           | 400         | Vertical | Pass    |
| 2   | 2437.100        | 95.62            | -11.83      | 74.0           | -21.62      | Peak     | 176.00         | 150         | Vertical | N/A     |
| 2** | 2437.100        | 86.72            | -11.83      | 54.0           | -32.72      | AV       | 176.00         | 150         | Vertical | N/A     |
| 3   | 2990.200        | 50.74            | -10.02      | 74.0           | 23.26       | Peak     | 176.00         | 200         | Vertical | Pass    |
| 3** | 2990.200        | 41.92            | -10.02      | 54.0           | 12.08       | AV       | 176.00         | 200         | Vertical | Pass    |
| 4   | 4874.200        | 49.25            | -3.52       | 74.0           | 24.75       | Peak     | 127.00         | 150         | Vertical | Pass    |
| 4** | 4874.200        | 45.10            | -3.52       | 54.0           | 8.90        | AV       | 127.00         | 150         | Vertical | Pass    |
| 5   | 6962.200        | 52.87            | -0.58       | 74.0           | 21.13       | Peak     | 0.00           | 200         | Vertical | Pass    |
| 5** | 6962.200        | 44.04            | -0.58       | 54.0           | 9.96        | AV       | 0.00           | 200         | Vertical | Pass    |
| 6   | 14819.025       | 53.53            | 5.04        | 74.0           | 20.47       | Peak     | 29.00          | 300         | Vertical | Pass    |
| 6** | 14819.025       | 44.39            | 5.04        | 54.0           | 9.61        | AV       | 29.00          | 300         | Vertical | Pass    |

## 1 GHz to 18 GHz, ANT H 802.11b High Channel

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna    | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|----------------|-------------|------------|---------|
| 1   | 1664.900        | 41.87            | -17.30      | 74.0           | 32.13       | Peak     | 134.00         | 400         | Horizontal | Pass    |
| 1** | 1664.900        | 32.38            | -17.30      | 54.0           | 21.62       | AV       | 134.00         | 400         | Horizontal | Pass    |
| 2   | 2462.000        | 91.84            | -12.74      | 74.0           | -17.84      | Peak     | 160.00         | 200         | Horizontal | N/A     |
| 2** | 2462.000        | 82.06            | -12.74      | 54.0           | -28.06      | AV       | 160.00         | 200         | Horizontal | N/A     |
| 3   | 2982.500        | 50.78            | -10.20      | 74.0           | 23.22       | Peak     | 1.00           | 150         | Horizontal | Pass    |
| 3** | 2982.500        | 41.08            | -10.20      | 54.0           | 12.92       | AV       | 1.00           | 150         | Horizontal | Pass    |
| 4   | 4924.200        | 48.82            | -3.61       | 74.0           | 25.18       | Peak     | 127.00         | 200         | Horizontal | Pass    |
| 4** | 4924.200        | 42.71            | -3.61       | 54.0           | 11.29       | AV       | 127.00         | 200         | Horizontal | Pass    |
| 5   | 6989.600        | 52.63            | -0.40       | 74.0           | 21.37       | Peak     | 135.00         | 400         | Horizontal | Pass    |
| 5** | 6989.600        | 43.67            | -0.40       | 54.0           | 10.33       | AV       | 135.00         | 400         | Horizontal | Pass    |
| 6   | 16251.750       | 54.20            | 5.54        | 74.0           | 19.80       | Peak     | 360.00         | 200         | Horizontal | Pass    |
| 6** | 16251.750       | 44.81            | 5.54        | 54.0           | 9.19        | AV       | 360.00         | 200         | Horizontal | Pass    |

## 1 GHz to 18 GHz, ANT V 802.11b High Channel

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna  | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|----------------|-------------|----------|---------|
| 1   | 1280.700        | 42.02            | -17.40      | 74.0           | 31.98       | Peak     | 96.00          | 200         | Vertical | Pass    |
| 1** | 1280.700        | 32.85            | -17.40      | 54.0           | 21.15       | AV       | 96.00          | 200         | Vertical | Pass    |
| 2   | 2461.800        | 96.17            | -12.73      | 74.0           | -22.17      | Peak     | 36.00          | 150         | Vertical | N/A     |
| 2** | 2461.800        | 87.40            | -12.73      | 54.0           | -33.40      | AV       | 36.00          | 150         | Vertical | N/A     |
| 3   | 2975.600        | 50.90            | -10.16      | 74.0           | 23.10       | Peak     | 360.00         | 200         | Vertical | Pass    |
| 3** | 2975.600        | 42.14            | -10.16      | 54.0           | 11.86       | AV       | 360.00         | 200         | Vertical | Pass    |
| 4   | 4924.400        | 49.21            | -3.61       | 74.0           | 24.79       | Peak     | 127.00         | 150         | Vertical | Pass    |
| 4** | 4924.400        | 45.22            | -3.61       | 54.0           | 8.78        | AV       | 127.00         | 150         | Vertical | Pass    |
| 5   | 6649.800        | 52.56            | -1.06       | 74.0           | 21.44       | Peak     | 23.00          | 200         | Vertical | Pass    |
| 5** | 6649.800        | 44.23            | -1.06       | 54.0           | 9.77        | AV       | 23.00          | 200         | Vertical | Pass    |
| 6   | 16121.550       | 53.63            | 5.67        | 74.0           | 20.37       | Peak     | 243.00         | 300         | Vertical | Pass    |
| 6** | 16121.550       | 44.91            | 5.67        | 54.0           | 9.09        | AV       | 243.00         | 300         | Vertical | Pass    |

## 1 GHz to 18 GHz, ANT H 802.11g Low Channel

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna    | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|----------------|-------------|------------|---------|
| 1   | 1339.900        | 42.16            | -17.51      | 74.0           | 31.84       | Peak     | 336.00         | 100         | Horizontal | Pass    |
| 1** | 1339.900        | 31.76            | -17.51      | 54.0           | 22.24       | AV       | 336.00         | 100         | Horizontal | Pass    |
| 2   | 2407.900        | 89.32            | -13.04      | 74.0           | -15.32      | Peak     | 168.00         | 150         | Horizontal | N/A     |
| 2** | 2407.900        | 82.13            | -13.04      | 54.0           | -28.13      | AV       | 168.00         | 150         | Horizontal | N/A     |
| 3   | 2987.000        | 51.09            | -10.02      | 74.0           | 22.91       | Peak     | 316.00         | 100         | Horizontal | Pass    |
| 3** | 2987.000        | 41.22            | -10.02      | 54.0           | 12.78       | AV       | 316.00         | 100         | Horizontal | Pass    |
| 4   | 4998.600        | 49.49            | -3.29       | 74.0           | 24.51       | Peak     | 8.00           | 100         | Horizontal | Pass    |
| 4** | 4998.600        | 40.71            | -3.29       | 54.0           | 13.29       | AV       | 8.00           | 100         | Horizontal | Pass    |
| 5   | 6841.600        | 52.73            | -0.91       | 74.0           | 21.27       | Peak     | 119.00         | 200         | Horizontal | Pass    |
| 5** | 6841.600        | 44.31            | -0.91       | 54.0           | 9.69        | AV       | 119.00         | 200         | Horizontal | Pass    |
| 6   | 16081.125       | 54.02            | 5.43        | 74.0           | 19.98       | Peak     | 166.00         | 400         | Horizontal | Pass    |
| 6** | 16081.125       | 43.95            | 5.43        | 54.0           | 10.05       | AV       | 166.00         | 400         | Horizontal | Pass    |

## 1 GHz to 18 GHz, ANT V 802.11g Low Channel

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna  | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|----------------|-------------|----------|---------|
| 1   | 1659.200        | 42.42            | -17.24      | 74.0           | 31.58       | Peak     | 360.00         | 300         | Vertical | Pass    |
| 1** | 1659.200        | 32.49            | -17.24      | 54.0           | 21.51       | AV       | 360.00         | 300         | Vertical | Pass    |
| 2   | 2414.900        | 92.82            | -12.77      | 74.0           | -18.82      | Peak     | 68.00          | 100         | Vertical | N/A     |
| 2** | 2414.900        | 85.62            | -12.77      | 54.0           | -31.62      | AV       | 68.00          | 100         | Vertical | N/A     |
| 3   | 2998.900        | 50.57            | -10.06      | 74.0           | 23.43       | Peak     | 222.00         | 200         | Vertical | Pass    |
| 3** | 2998.900        | 41.43            | -10.06      | 54.0           | 12.57       | AV       | 222.00         | 200         | Vertical | Pass    |
| 4   | 4875.000        | 50.39            | -3.55       | 74.0           | 23.61       | Peak     | 84.00          | 300         | Vertical | Pass    |
| 4** | 4875.000        | 39.93            | -3.55       | 54.0           | 14.07       | AV       | 84.00          | 300         | Vertical | Pass    |
| 5   | 6958.800        | 52.83            | -0.43       | 74.0           | 21.17       | Peak     | 0.00           | 200         | Vertical | Pass    |
| 5** | 6958.800        | 43.22            | -0.43       | 54.0           | 10.78       | AV       | 0.00           | 200         | Vertical | Pass    |
| 6   | 14894.625       | 54.02            | 4.50        | 74.0           | 19.98       | Peak     | 272.00         | 200         | Vertical | Pass    |
| 6** | 14894.625       | 43.69            | 4.50        | 54.0           | 10.31       | AV       | 272.00         | 200         | Vertical | Pass    |

## 1 GHz to 18 GHz, ANT H 802.11g Middle Channel

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna    | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|----------------|-------------|------------|---------|
| 1   | 1386.100        | 41.70            | -17.15      | 74.0           | 32.30       | Peak     | 4.00           | 300         | Horizontal | Pass    |
| 1** | 1386.100        | 32.94            | -17.15      | 54.0           | 21.06       | AV       | 4.00           | 300         | Horizontal | Pass    |
| 2   | 2438.500        | 88.54            | -11.76      | 74.0           | -14.54      | Peak     | 157.00         | 100         | Horizontal | N/A     |
| 2** | 2438.500        | 80.93            | -11.76      | 54.0           | -26.93      | AV       | 157.00         | 100         | Horizontal | N/A     |
| 3   | 2968.600        | 51.00            | -10.17      | 74.0           | 23.00       | Peak     | 360.00         | 100         | Horizontal | Pass    |
| 3** | 2968.600        | 41.13            | -10.17      | 54.0           | 12.87       | AV       | 360.00         | 100         | Horizontal | Pass    |
| 4   | 4895.200        | 49.70            | -3.53       | 74.0           | 24.30       | Peak     | 0.00           | 100         | Horizontal | Pass    |
| 4** | 4895.200        | 40.51            | -3.53       | 54.0           | 13.49       | AV       | 0.00           | 100         | Horizontal | Pass    |
| 5   | 6843.000        | 52.97            | -0.88       | 74.0           | 21.03       | Peak     | 189.00         | 400         | Horizontal | Pass    |
| 5** | 6843.000        | 43.18            | -0.88       | 54.0           | 10.82       | AV       | 189.00         | 400         | Horizontal | Pass    |
| 6   | 16036.237       | 54.13            | 6.00        | 74.0           | 19.87       | Peak     | 276.00         | 400         | Horizontal | Pass    |
| 6** | 16036.237       | 45.10            | 6.00        | 54.0           | 8.90        | AV       | 276.00         | 400         | Horizontal | Pass    |

## 1 GHz to 18 GHz, ANT V 802.11g Middle Channel

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna  | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|----------------|-------------|----------|---------|
| 1   | 1415.900        | 41.92            | -17.31      | 74.0           | 32.08       | Peak     | 248.00         | 200         | Vertical | Pass    |
| 1** | 1415.900        | 32.08            | -17.31      | 54.0           | 21.92       | AV       | 248.00         | 200         | Vertical | Pass    |
| 2   | 2439.400        | 92.45            | -11.70      | 74.0           | -18.45      | Peak     | 73.00          | 150         | Vertical | N/A     |
| 2** | 2439.400        | 85.27            | -11.70      | 54.0           | -31.27      | AV       | 73.00          | 150         | Vertical | N/A     |
| 3   | 2969.000        | 50.56            | -10.17      | 74.0           | 23.44       | Peak     | 148.00         | 100         | Vertical | Pass    |
| 3** | 2969.000        | 41.34            | -10.17      | 54.0           | 12.66       | AV       | 148.00         | 100         | Vertical | Pass    |
| 4   | 4870.200        | 49.70            | -3.39       | 74.0           | 24.30       | Peak     | 222.00         | 200         | Vertical | Pass    |
| 4** | 4870.200        | 41.02            | -3.39       | 54.0           | 12.98       | AV       | 222.00         | 200         | Vertical | Pass    |
| 5   | 6589.600        | 53.19            | -0.98       | 74.0           | 20.81       | Peak     | 150.00         | 200         | Vertical | Pass    |
| 5** | 6589.600        | 43.40            | -0.98       | 54.0           | 10.60       | AV       | 150.00         | 200         | Vertical | Pass    |
| 6   | 15986.888       | 53.90            | 5.00        | 74.0           | 20.10       | Peak     | 215.00         | 200         | Vertical | Pass    |
| 6** | 15986.888       | 43.74            | 5.00        | 54.0           | 10.26       | AV       | 215.00         | 200         | Vertical | Pass    |

## 1 GHz to 18 GHz, ANT H 802.11g High Channel

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna    | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|----------------|-------------|------------|---------|
| 1   | 1694.100        | 42.00            | -17.49      | 74.0           | 32.00       | Peak     | 168.00         | 200         | Horizontal | Pass    |
| 1** | 1694.100        | 32.21            | -17.49      | 54.0           | 21.79       | AV       | 168.00         | 200         | Horizontal | Pass    |
| 2   | 2458.000        | 87.92            | -12.73      | 74.0           | -13.92      | Peak     | 162.00         | 150         | Horizontal | N/A     |
| 2** | 2458.000        | 80.63            | -12.73      | 54.0           | -26.63      | AV       | 162.00         | 150         | Horizontal | N/A     |
| 3   | 2982.800        | 51.26            | -10.20      | 74.0           | 22.74       | Peak     | 360.00         | 200         | Horizontal | Pass    |
| 3** | 2982.800        | 41.82            | -10.20      | 54.0           | 12.18       | AV       | 360.00         | 200         | Horizontal | Pass    |
| 4   | 4904.000        | 49.58            | -3.47       | 74.0           | 24.42       | Peak     | 1.00           | 100         | Horizontal | Pass    |
| 4** | 4904.000        | 41.06            | -3.47       | 54.0           | 12.94       | AV       | 1.00           | 100         | Horizontal | Pass    |
| 5   | 6996.400        | 53.48            | -0.44       | 74.0           | 20.52       | Peak     | 196.00         | 400         | Horizontal | Pass    |
| 5** | 6996.400        | 43.72            | -0.44       | 54.0           | 10.28       | AV       | 196.00         | 400         | Horizontal | Pass    |
| 6   | 16162.763       | 53.90            | 5.61        | 74.0           | 20.10       | Peak     | 334.00         | 200         | Horizontal | Pass    |
| 6** | 16162.763       | 44.15            | 5.61        | 54.0           | 9.85        | AV       | 334.00         | 200         | Horizontal | Pass    |

## 1 GHz to 18 GHz, ANT V 802.11g High Channel

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna  | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|----------------|-------------|----------|---------|
| 1   | 1688.000        | 42.00            | -17.49      | 74.0           | 32.00       | Peak     | 254.00         | 400         | Vertical | Pass    |
| 1** | 1688.000        | 32.27            | -17.49      | 54.0           | 21.73       | AV       | 254.00         | 400         | Vertical | Pass    |
| 2   | 2458.100        | 92.64            | -12.73      | 74.0           | -18.64      | Peak     | 67.00          | 200         | Vertical | N/A     |
| 2** | 2458.100        | 85.30            | -12.73      | 54.0           | -31.30      | AV       | 67.00          | 200         | Vertical | N/A     |
| 3   | 2958.800        | 50.54            | -10.08      | 74.0           | 23.46       | Peak     | 349.00         | 100         | Vertical | Pass    |
| 3** | 2958.800        | 41.06            | -10.08      | 54.0           | 12.94       | AV       | 349.00         | 100         | Vertical | Pass    |
| 4   | 4890.000        | 49.48            | -3.56       | 74.0           | 24.52       | Peak     | 0.00           | 400         | Vertical | Pass    |
| 4** | 4890.000        | 39.70            | -3.56       | 54.0           | 14.30       | AV       | 0.00           | 400         | Vertical | Pass    |
| 5   | 6647.800        | 52.79            | -1.10       | 74.0           | 21.21       | Peak     | 277.00         | 300         | Vertical | Pass    |
| 5** | 6647.800        | 43.32            | -1.10       | 54.0           | 10.68       | AV       | 277.00         | 300         | Vertical | Pass    |
| 6   | 16114.463       | 53.53            | 5.69        | 74.0           | 20.47       | Peak     | 106.00         | 400         | Vertical | Pass    |
| 6** | 16114.463       | 44.13            | 5.69        | 54.0           | 9.87        | AV       | 106.00         | 400         | Vertical | Pass    |

## 1 GHz to 18 GHz, ANT H 802.11n20 Low Channel

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna    | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|----------------|-------------|------------|---------|
| 1   | 1561.200        | 42.68            | -17.57      | 74.0           | 31.32       | Peak     | 124.00         | 200         | Horizontal | Pass    |
| 1** | 1561.200        | 32.28            | -17.57      | 54.0           | 21.72       | AV       | 124.00         | 200         | Horizontal | Pass    |
| 2   | 2409.000        | 89.85            | -13.08      | 74.0           | -15.85      | Peak     | 170.00         | 100         | Horizontal | N/A     |
| 2** | 2409.000        | 82.00            | -13.08      | 54.0           | -28.00      | AV       | 170.00         | 100         | Horizontal | N/A     |
| 3   | 2981.500        | 50.50            | -10.22      | 74.0           | 23.50       | Peak     | 230.00         | 150         | Horizontal | Pass    |
| 3** | 2981.500        | 41.88            | -10.22      | 54.0           | 12.12       | AV       | 230.00         | 150         | Horizontal | Pass    |
| 4   | 4976.400        | 50.44            | -3.54       | 74.0           | 23.56       | Peak     | 0.00           | 200         | Horizontal | Pass    |
| 4** | 4976.400        | 41.44            | -3.54       | 54.0           | 12.56       | AV       | 0.00           | 200         | Horizontal | Pass    |
| 5   | 6658.400        | 53.33            | -1.09       | 74.0           | 20.67       | Peak     | 34.00          | 400         | Horizontal | Pass    |
| 5** | 6658.400        | 43.33            | -1.09       | 54.0           | 10.67       | AV       | 34.00          | 400         | Horizontal | Pass    |
| 6   | 14832.151       | 53.67            | 4.70        | 74.0           | 20.33       | Peak     | 14.00          | 200         | Horizontal | Pass    |
| 6** | 14832.151       | 43.54            | 4.70        | 54.0           | 10.46       | AV       | 14.00          | 200         | Horizontal | Pass    |

## 1 GHz to 18 GHz, ANT V 802.11n20 Low Channel

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna  | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|----------------|-------------|----------|---------|
| 1   | 1386.500        | 42.07            | -17.20      | 74.0           | 31.93       | Peak     | 4.00           | 400         | Vertical | Pass    |
| 1** | 1386.500        | 32.28            | -17.20      | 54.0           | 21.72       | AV       | 4.00           | 400         | Vertical | Pass    |
| 2   | 2415.300        | 92.83            | -12.75      | 74.0           | -18.83      | Peak     | 68.00          | 200         | Vertical | N/A     |
| 2** | 2415.300        | 85.23            | -12.75      | 54.0           | -31.23      | AV       | 68.00          | 200         | Vertical | N/A     |
| 3   | 2901.500        | 50.58            | -9.90       | 74.0           | 23.42       | Peak     | 190.00         | 200         | Vertical | Pass    |
| 3** | 2901.500        | 40.88            | -9.90       | 54.0           | 13.12       | AV       | 190.00         | 200         | Vertical | Pass    |
| 4   | 4831.200        | 49.58            | -3.39       | 74.0           | 24.42       | Peak     | 350.00         | 100         | Vertical | Pass    |
| 4** | 4831.200        | 40.30            | -3.39       | 54.0           | 13.70       | AV       | 350.00         | 100         | Vertical | Pass    |
| 5   | 6853.600        | 52.84            | -1.08       | 74.0           | 21.16       | Peak     | 356.00         | 300         | Vertical | Pass    |
| 5** | 6853.600        | 44.59            | -1.08       | 54.0           | 9.41        | AV       | 356.00         | 300         | Vertical | Pass    |
| 6   | 16070.100       | 53.92            | 5.46        | 74.0           | 20.08       | Peak     | 359.00         | 300         | Vertical | Pass    |
| 6** | 16070.100       | 44.00            | 5.46        | 54.0           | 10.00       | AV       | 359.00         | 300         | Vertical | Pass    |

## 1 GHz to 18 GHz, ANT H 802.11n20 Middle Channel

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna    | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|----------------|-------------|------------|---------|
| 1   | 1419.800        | 42.45            | -17.29      | 74.0           | 31.55       | Peak     | 90.00          | 200         | Horizontal | Pass    |
| 1** | 1419.800        | 32.31            | -17.29      | 54.0           | 21.69       | AV       | 90.00          | 200         | Horizontal | Pass    |
| 2   | 2440.800        | 88.48            | -11.72      | 74.0           | -14.48      | Peak     | 163.00         | 100         | Horizontal | N/A     |
| 2** | 2440.800        | 80.88            | -11.72      | 54.0           | -26.88      | AV       | 163.00         | 100         | Horizontal | N/A     |
| 3   | 2992.900        | 50.11            | -9.93       | 74.0           | 23.89       | Peak     | 297.00         | 100         | Horizontal | Pass    |
| 3** | 2992.900        | 41.18            | -9.93       | 54.0           | 12.82       | AV       | 297.00         | 100         | Horizontal | Pass    |
| 4   | 4817.400        | 49.72            | -3.38       | 74.0           | 24.28       | Peak     | 0.00           | 300         | Horizontal | Pass    |
| 4** | 4817.400        | 40.22            | -3.38       | 54.0           | 13.78       | AV       | 0.00           | 300         | Horizontal | Pass    |
| 5   | 6947.400        | 53.09            | -0.55       | 74.0           | 20.91       | Peak     | 292.00         | 100         | Horizontal | Pass    |
| 5** | 6947.400        | 44.05            | -0.55       | 54.0           | 9.95        | AV       | 292.00         | 100         | Horizontal | Pass    |
| 6   | 15446.400       | 54.28            | 4.66        | 74.0           | 19.72       | Peak     | 353.00         | 400         | Horizontal | Pass    |
| 6** | 15446.400       | 45.00            | 4.66        | 54.0           | 9.00        | AV       | 353.00         | 400         | Horizontal | Pass    |

## 1 GHz to 18 GHz, ANT V 802.11n20 Middle Channel

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna  | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|----------------|-------------|----------|---------|
| 1   | 1406.500        | 42.26            | -17.16      | 74.0           | 31.74       | Peak     | 262.00         | 200         | Vertical | Pass    |
| 1** | 1406.500        | 32.43            | -17.16      | 54.0           | 21.57       | AV       | 262.00         | 200         | Vertical | Pass    |
| 2   | 2439.900        | 92.75            | -11.70      | 74.0           | -18.75      | Peak     | 70.00          | 100         | Vertical | N/A     |
| 2** | 2439.900        | 85.19            | -11.70      | 54.0           | -31.19      | AV       | 70.00          | 100         | Vertical | N/A     |
| 3   | 2959.000        | 50.33            | -10.09      | 74.0           | 23.67       | Peak     | 96.00          | 150         | Vertical | Pass    |
| 3** | 2959.000        | 41.30            | -10.09      | 54.0           | 12.70       | AV       | 96.00          | 150         | Vertical | Pass    |
| 4   | 4949.600        | 49.93            | -3.83       | 74.0           | 24.07       | Peak     | 127.00         | 100         | Vertical | Pass    |
| 4** | 4949.600        | 40.04            | -3.83       | 54.0           | 13.96       | AV       | 127.00         | 100         | Vertical | Pass    |
| 5   | 6977.000        | 52.68            | -0.32       | 74.0           | 21.32       | Peak     | 80.00          | 400         | Vertical | Pass    |
| 5** | 6977.000        | 43.66            | -0.32       | 54.0           | 10.34       | AV       | 80.00          | 400         | Vertical | Pass    |
| 6   | 16098.187       | 54.09            | 5.61        | 74.0           | 19.91       | Peak     | 120.00         | 400         | Vertical | Pass    |
| 6** | 16098.187       | 44.44            | 5.61        | 54.0           | 9.56        | AV       | 120.00         | 400         | Vertical | Pass    |

## 1 GHz to 18 GHz, ANT H 802.11n20 High Channel

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna    | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|----------------|-------------|------------|---------|
| 1   | 1441.200        | 42.39            | -17.49      | 74.0           | 31.61       | Peak     | 355.00         | 200         | Horizontal | Pass    |
| 1** | 1441.200        | 32.72            | -17.49      | 54.0           | 21.28       | AV       | 355.00         | 200         | Horizontal | Pass    |
| 2   | 2459.200        | 87.57            | -12.74      | 74.0           | -13.57      | Peak     | 168.00         | 200         | Horizontal | N/A     |
| 2** | 2459.200        | 79.57            | -12.74      | 54.0           | -25.57      | AV       | 168.00         | 200         | Horizontal | N/A     |
| 3   | 2956.400        | 50.78            | -10.07      | 74.0           | 23.22       | Peak     | 88.00          | 200         | Horizontal | Pass    |
| 3** | 2956.400        | 41.47            | -10.07      | 54.0           | 12.53       | AV       | 88.00          | 200         | Horizontal | Pass    |
| 4   | 4887.800        | 49.63            | -3.52       | 74.0           | 24.37       | Peak     | 295.00         | 400         | Horizontal | Pass    |
| 4** | 4887.800        | 40.21            | -3.52       | 54.0           | 13.79       | AV       | 295.00         | 400         | Horizontal | Pass    |
| 5   | 6830.200        | 53.10            | -0.97       | 74.0           | 20.90       | Peak     | 262.00         | 300         | Horizontal | Pass    |
| 5** | 6830.200        | 43.04            | -0.97       | 54.0           | 10.96       | AV       | 262.00         | 300         | Horizontal | Pass    |
| 6   | 16043.062       | 54.49            | 6.14        | 74.0           | 19.51       | Peak     | 184.00         | 300         | Horizontal | Pass    |
| 6** | 16043.062       | 45.88            | 6.14        | 54.0           | 8.12        | AV       | 184.00         | 300         | Horizontal | Pass    |

## 1 GHz to 18 GHz, ANT V 802.11n20 High Channel

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna  | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|----------------|-------------|----------|---------|
| 1   | 1443.500        | 42.98            | -17.37      | 74.0           | 31.02       | Peak     | 60.00          | 100         | Vertical | Pass    |
| 1** | 1443.500        | 32.08            | -17.37      | 54.0           | 21.92       | AV       | 60.00          | 100         | Vertical | Pass    |
| 2   | 2459.000        | 92.41            | -12.75      | 74.0           | -18.41      | Peak     | 68.00          | 100         | Vertical | N/A     |
| 2** | 2459.000        | 85.66            | -12.75      | 54.0           | -31.66      | AV       | 68.00          | 100         | Vertical | N/A     |
| 3   | 2967.000        | 50.53            | -10.20      | 74.0           | 23.47       | Peak     | 355.00         | 200         | Vertical | Pass    |
| 3** | 2967.000        | 41.65            | -10.20      | 54.0           | 12.35       | AV       | 355.00         | 200         | Vertical | Pass    |
| 4   | 4887.000        | 49.97            | -3.51       | 74.0           | 24.03       | Peak     | 359.00         | 400         | Vertical | Pass    |
| 4** | 4887.000        | 40.83            | -3.51       | 54.0           | 13.17       | AV       | 359.00         | 400         | Vertical | Pass    |
| 5   | 6980.800        | 53.31            | -0.40       | 74.0           | 20.69       | Peak     | 0.00           | 200         | Vertical | Pass    |
| 5** | 6980.800        | 43.55            | -0.40       | 54.0           | 10.45       | AV       | 0.00           | 200         | Vertical | Pass    |
| 6   | 15460.050       | 53.59            | 4.87        | 74.0           | 20.41       | Peak     | 331.00         | 100         | Vertical | Pass    |
| 6** | 15460.050       | 44.43            | 4.87        | 54.0           | 9.57        | AV       | 331.00         | 100         | Vertical | Pass    |

## A.7 Band Edge (Restricted-band band-edge)

Note <sup>1</sup>: The lowest and highest channels are tested to verify the band edge emissions. Please refer to the following the plots for emissions values.

Note <sup>2</sup>: The test data all are tested in the vertical and horizontal antenna which the trace is max hold. So these plots have shown the worst case.

Note <sup>3</sup>: According the ANSI C63.10-2020, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

Note <sup>6</sup>: Both horizontal and vertical directions were pre tested, only the worst configuration has been reported in this report.

### Test Data

#### 802.11b LOW CHANNEL

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna  | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|----------------|-------------|----------|---------|
| 1   | 2336.000        | 55.77            | -0.75       | 74.0           | 18.23       | Peak     | 241.00         | 300         | Vertical | Pass    |
| 1** | 2336.000        | 43.27            | -0.75       | 54.0           | 10.73       | AV       | 241.00         | 300         | Vertical | Pass    |
| 2   | 2390.000        | 53.67            | -1.15       | 74.0           | 20.33       | Peak     | 318.00         | 300         | Vertical | Pass    |
| 2** | 2390.000        | 43.22            | -1.15       | 54.0           | 10.78       | AV       | 318.00         | 300         | Vertical | Pass    |
| 3   | 2360.833        | 54.53            | -0.66       | 74.0           | 19.47       | Peak     | 65.00          | 300         | Vertical | Pass    |
| 3** | 2360.833        | 43.43            | -0.66       | 54.0           | 10.57       | AV       | 65.00          | 300         | Vertical | Pass    |

#### 802.11b HIGH CHANNEL

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna  | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|----------------|-------------|----------|---------|
| 1   | 2483.500        | 53.64            | -0.51       | 74.0           | 20.36       | Peak     | 225.00         | 150         | Vertical | Pass    |
| 1** | 2483.500        | 43.32            | -0.51       | 54.0           | 10.68       | AV       | 225.00         | 150         | Vertical | Pass    |
| 2   | 2496.650        | 55.71            | -0.61       | 74.0           | 18.29       | Peak     | 0.00           | 400         | Vertical | Pass    |
| 2** | 2496.650        | 43.19            | -0.61       | 54.0           | 10.81       | AV       | 0.00           | 400         | Vertical | Pass    |
| 3   | 2484.350        | 53.59            | -0.52       | 74.0           | 20.41       | Peak     | 315.00         | 400         | Vertical | Pass    |
| 3** | 2484.350        | 43.59            | -0.52       | 54.0           | 10.41       | AV       | 315.00         | 400         | Vertical | Pass    |

## 802.11g LOW CHANNEL

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna  | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|----------------|-------------|----------|---------|
| 1   | 2365.500        | 55.72            | -0.63       | 74.0           | 18.28       | Peak     | 96.00          | 200         | Vertical | Pass    |
| 1** | 2365.500        | 43.31            | -0.63       | 54.0           | 10.69       | AV       | 96.00          | 200         | Vertical | Pass    |
| 2   | 2390.000        | 53.62            | -1.15       | 74.0           | 20.38       | Peak     | 6.00           | 100         | Vertical | Pass    |
| 2** | 2390.000        | 43.18            | -1.15       | 54.0           | 10.82       | AV       | 6.00           | 100         | Vertical | Pass    |
| 3   | 2366.333        | 53.91            | -0.58       | 74.0           | 20.09       | Peak     | 96.00          | 300         | Vertical | Pass    |
| 3** | 2366.333        | 43.48            | -0.58       | 54.0           | 10.52       | AV       | 96.00          | 300         | Vertical | Pass    |

## 802.11g HIGH CHANNEL

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna  | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|----------------|-------------|----------|---------|
| 1   | 2483.500        | 54.36            | -0.51       | 74.0           | 19.64       | Peak     | 88.00          | 300         | Vertical | Pass    |
| 1** | 2483.500        | 43.61            | -0.51       | 54.0           | 10.39       | AV       | 88.00          | 300         | Vertical | Pass    |
| 2   | 2492.650        | 56.03            | -0.60       | 74.0           | 17.97       | Peak     | 241.00         | 200         | Vertical | Pass    |
| 2** | 2492.650        | 43.21            | -0.60       | 54.0           | 10.79       | AV       | 241.00         | 200         | Vertical | Pass    |

## 802.11n20 LOW CHANNEL

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna  | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|----------------|-------------|----------|---------|
| 1   | 2390.000        | 55.77            | -1.15       | 74.0           | 18.23       | Peak     | 360.00         | 100         | Vertical | Pass    |
| 1** | 2390.000        | 43.38            | -1.15       | 54.0           | 10.62       | AV       | 360.00         | 100         | Vertical | Pass    |
| 2   | 2389.833        | 55.81            | -1.15       | 74.0           | 18.19       | Peak     | 2.00           | 100         | Vertical | Pass    |
| 2** | 2389.833        | 43.62            | -1.15       | 54.0           | 10.38       | AV       | 2.00           | 100         | Vertical | Pass    |

## 802.11n20 HIGH CHANNEL

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna  | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|----------------|-------------|----------|---------|
| 1   | 2483.500        | 55.94            | -0.51       | 74.0           | 18.06       | Peak     | 10.00          | 200         | Vertical | Pass    |
| 1** | 2483.500        | 43.81            | -0.51       | 54.0           | 10.19       | AV       | 10.00          | 200         | Vertical | Pass    |
| 2   | 2483.950        | 57.80            | -0.50       | 74.0           | 16.20       | Peak     | 166.00         | 400         | Vertical | Pass    |
| 2** | 2483.950        | 43.65            | -0.50       | 54.0           | 10.35       | AV       | 166.00         | 400         | Vertical | Pass    |
| 3   | 2483.800        | 54.81            | -0.51       | 74.0           | 19.19       | Peak     | 142.00         | 150         | Vertical | Pass    |
| 3** | 2483.800        | 43.87            | -0.51       | 54.0           | 10.13       | AV       | 142.00         | 150         | Vertical | Pass    |

## A.8 Power Spectral Density (PSD)

### Test Data

#### 802.11b Mode:

| Channel | Spectral power density<br>(dBm/3kHz) | Limit (dBm/3kHz) |
|---------|--------------------------------------|------------------|
| Low     | -13.713                              | 8                |
| Middle  | -15.901                              | 8                |
| High    | -14.504                              | 8                |

#### 802.11g Mode:

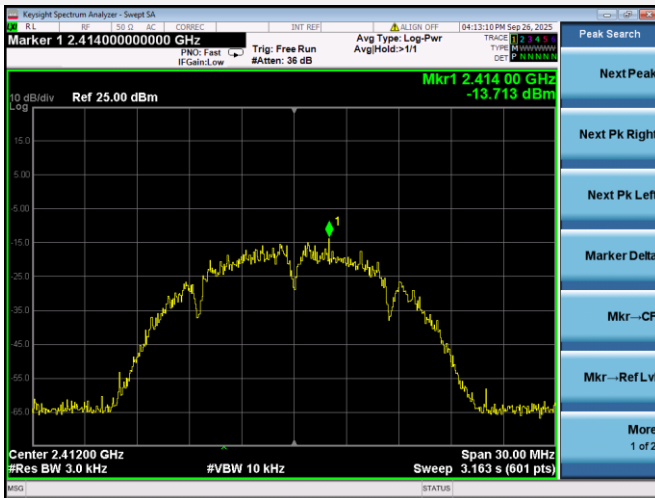
| Channel | Spectral power density<br>(dBm/3kHz) | Limit (dBm/3kHz) |
|---------|--------------------------------------|------------------|
| Low     | -18.229                              | 8                |
| Middle  | -19.859                              | 8                |
| High    | -20.214                              | 8                |

#### 802.11n-20 MHz Mode:

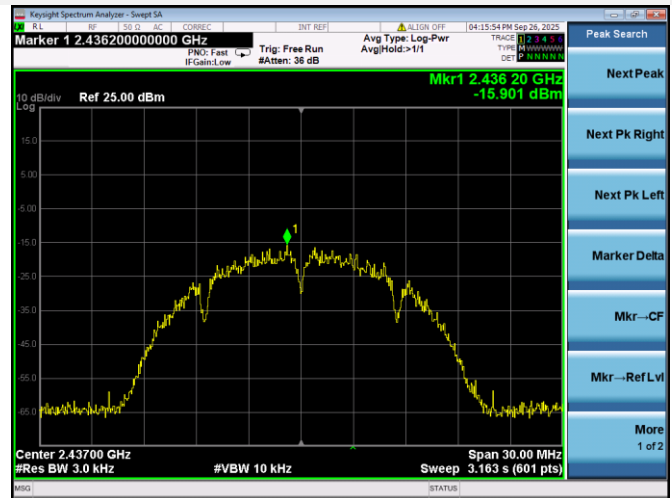
| Channel | Spectral power density<br>(dBm/3kHz) | Limit (dBm/3kHz) |
|---------|--------------------------------------|------------------|
| Low     | -19.054                              | 8                |
| Middle  | -20.061                              | 8                |
| High    | -19.753                              | 8                |

## Test Plots

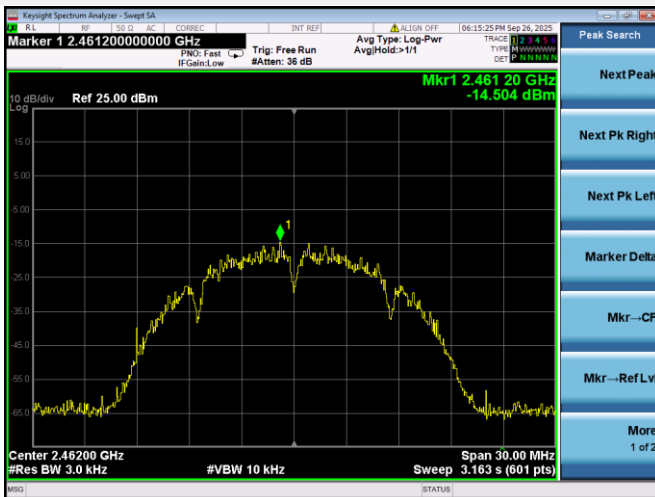
802.11b LOW CHANNEL



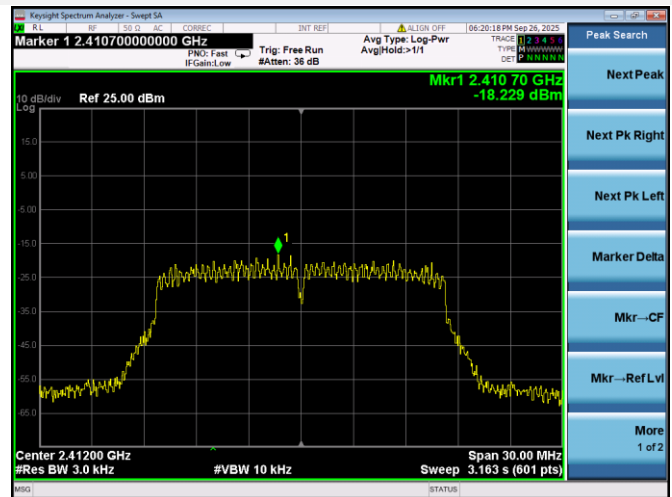
802.11b MIDDLE CHANNEL



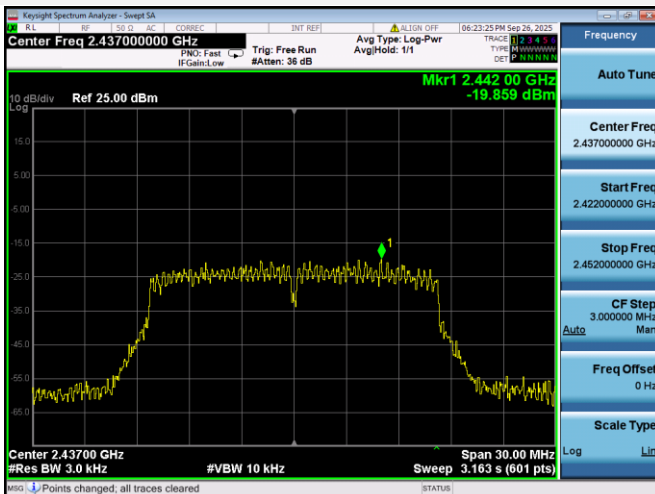
802.11b HIGH CHANNEL



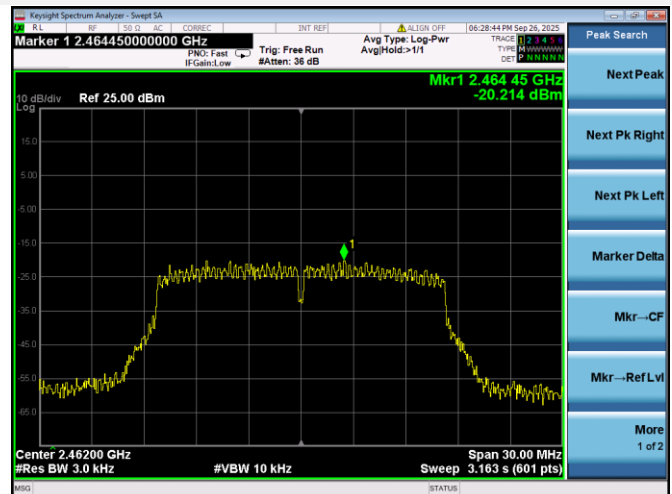
802.11g LOW CHANNEL



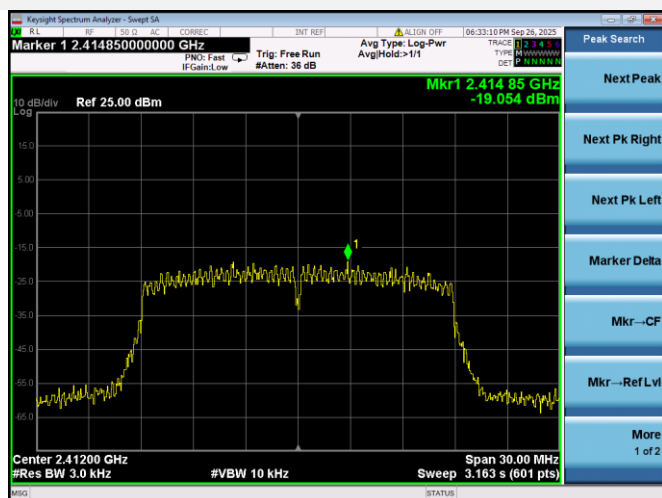
802.11g MIDDLE CHANNEL



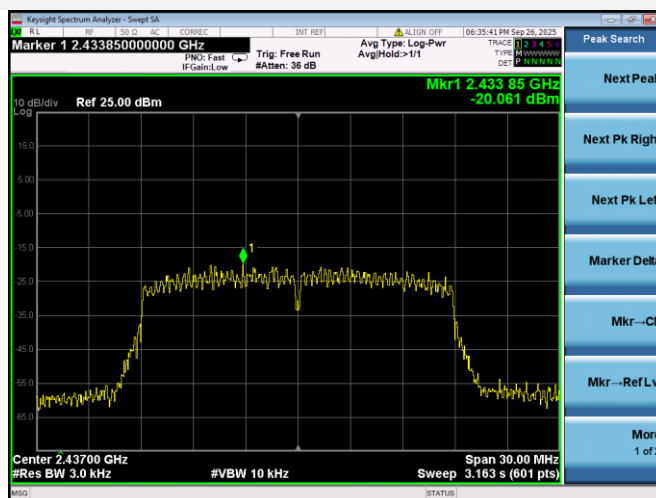
802.11g HIGH CHANNEL



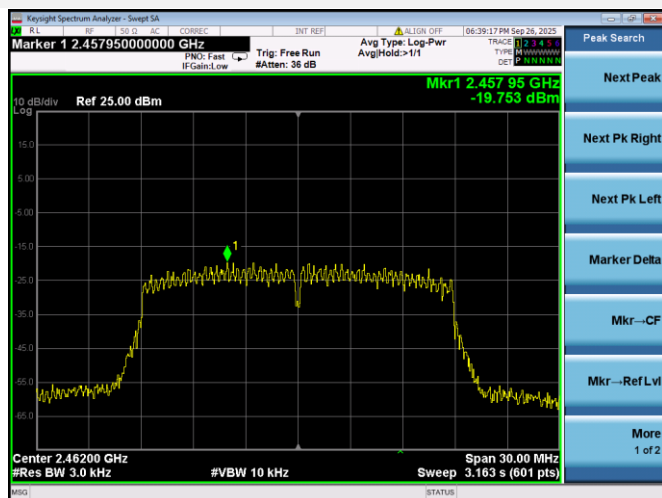
## 802.11n-20 MHz LOW CHANNEL



## 802.11n-20 MHz MIDDLE CHANNEL



## 802.11n-20 MHz HIGH CHANNEL



## **ANNEX B TEST SETUP PHOTOS**

Please refer the document “BL-SZ2591126-AR.PDF”.

## **ANNEX C EUT EXTERNAL PHOTOS**

Please refer the document “BL-SZ2591126-AW.PDF”.

## **ANNEX D EUT INTERNAL PHOTOS**

Please refer the document “BL-SZ2591126-AI.PDF”.

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