

## 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 C63.10-2013, 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.

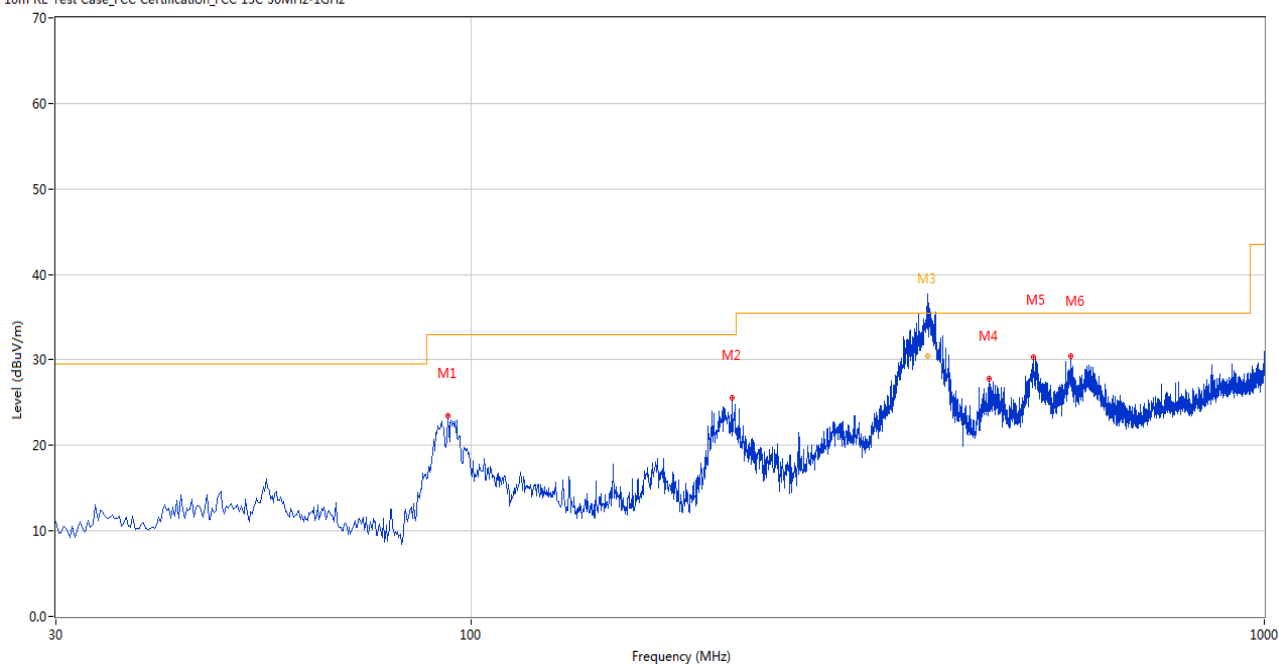
Note <sup>3</sup>: The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

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

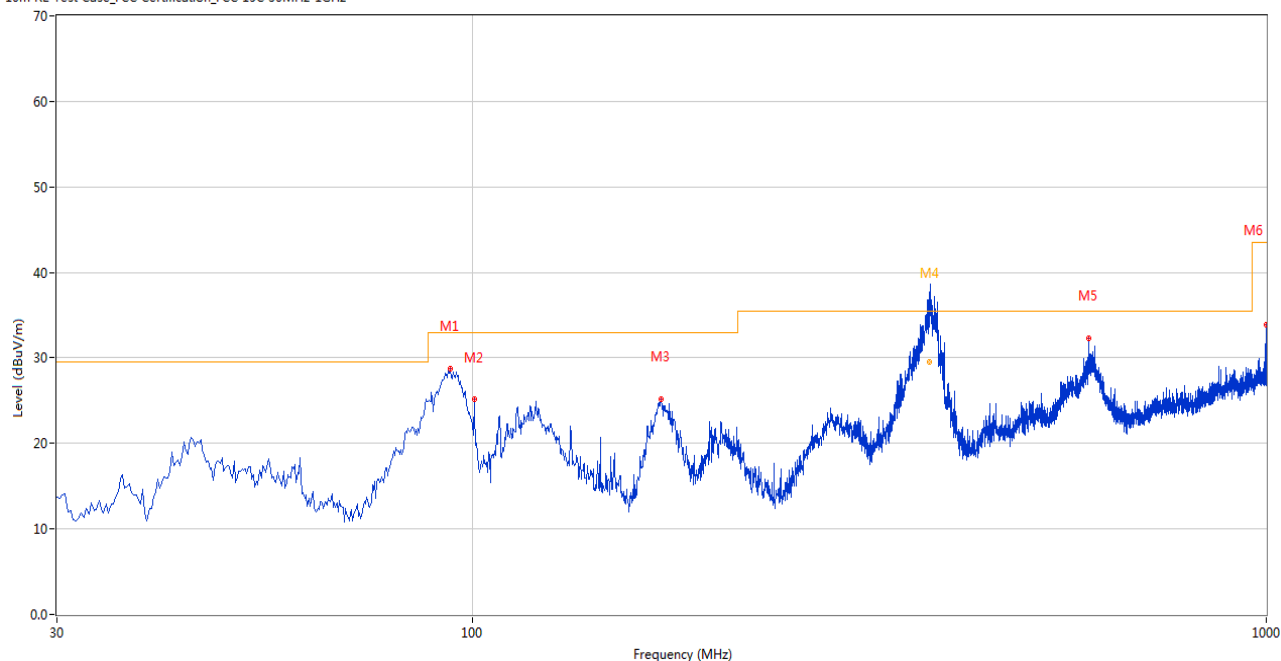
10m RE Test Case\_FCC Certification\_FCC 15C 30MHz-1GHz



| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna    | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|----------------|-------------|------------|---------|
| 1   | 93.519          | 23.47            | -31.58      | 33.0           | 9.53        | Peak     | 145.00         | 200         | Horizontal | Pass    |
| 2   | 213.284         | 25.54            | -28.93      | 33.0           | 7.46        | Peak     | 360.00         | 200         | Horizontal | Pass    |
| 3   | 376.493         | 39.37            | -22.80      | 35.5           | -3.87       | Peak     | 248.00         | 140         | Horizontal | N/A     |
| 3*  | 376.493         | 30.44            | -22.80      | 35.5           | 5.06        | QP       | 248.00         | 140         | Horizontal | Pass    |
| 4   | 450.632         | 27.77            | -20.50      | 35.5           | 7.73        | Peak     | 172.00         | 200         | Horizontal | Pass    |
| 5   | 511.242         | 30.27            | -19.52      | 35.5           | 5.23        | Peak     | 188.00         | 200         | Horizontal | Pass    |
| 6   | 571.125         | 30.45            | -17.82      | 35.5           | 5.05        | Peak     | 259.00         | 200         | Horizontal | Pass    |

## 30 MHz to 1 GHz, ANT V

10m RE Test Case\_FCC Certification\_FCC 15C 30MHz-1GHz



| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna  | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|----------------|-------------|----------|---------|
| 1   | 93.762          | 28.72            | -31.58      | 33.0           | 4.28        | Peak     | 340.00         | 100         | Vertical | Pass    |
| 2   | 100.550         | 25.12            | -30.44      | 33.0           | 7.88        | Peak     | 0.00           | 100         | Vertical | Pass    |
| 3   | 172.797         | 25.22            | -26.31      | 33.0           | 7.78        | Peak     | 264.00         | 100         | Vertical | Pass    |
| 4   | 377.015         | 37.17            | -22.82      | 35.5           | -1.67       | Peak     | 69.00          | 110         | Vertical | N/A     |
| 4*  | 377.015         | 29.57            | -22.82      | 35.5           | 5.93        | QP       | 69.00          | 110         | Vertical | Pass    |
| 5   | 598.520         | 32.33            | -16.85      | 35.5           | 3.17        | Peak     | 156.00         | 200         | Vertical | Pass    |
| 6   | 998.545         | 33.84            | -9.80       | 43.5           | 9.66        | Peak     | 275.00         | 200         | Vertical | Pass    |

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

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

Note 3: All antenna were tested, but only the worst case has been reported in this report.

## SISO-Antenna 2

### 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   | 2092.600        | 48.52            | -16.81      | 74.0           | 25.48       | Peak     | 141.00         | 300         | Horizontal | Pass    |
| 1** | 2092.600        | 34.40            | -16.81      | 54.0           | 19.60       | AV       | 141.00         | 300         | Horizontal | Pass    |
| 2   | 2411.900        | 102.66           | -14.67      | 74.0           | -28.66      | Peak     | 126.00         | 150         | Horizontal | N/A     |
| 2** | 2411.900        | 99.04            | -14.67      | 54.0           | -45.04      | AV       | 126.00         | 150         | Horizontal | N/A     |
| 3   | 2974.900        | 49.08            | -11.92      | 74.0           | 24.92       | Peak     | 73.00          | 100         | Horizontal | Pass    |
| 3** | 2974.900        | 39.56            | -11.92      | 54.0           | 14.44       | AV       | 73.00          | 100         | Horizontal | Pass    |
| 4   | 4824.250        | 48.82            | -5.61       | 74.0           | 25.18       | Peak     | 29.00          | 150         | Horizontal | Pass    |
| 4** | 4824.250        | 44.84            | -5.61       | 54.0           | 9.16        | AV       | 29.00          | 150         | Horizontal | Pass    |
| 5   | 7494.750        | 53.37            | -0.40       | 74.0           | 20.63       | Peak     | 360.00         | 400         | Horizontal | Pass    |
| 5** | 7494.750        | 44.69            | -0.40       | 54.0           | 9.31        | AV       | 360.00         | 400         | Horizontal | Pass    |
| 6   | 17560.001       | 48.10            | 6.37        | 74.0           | 25.90       | Peak     | 65.00          | 300         | Horizontal | Pass    |
| 6** | 17560.001       | 40.09            | 6.37        | 54.0           | 13.91       | AV       | 65.00          | 300         | 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   | 2046.100        | 48.06            | -16.51      | 74.0           | 25.94       | Peak     | 68.00          | 300         | Vertical | Pass    |
| 1** | 2046.100        | 37.31            | -16.51      | 54.0           | 16.69       | AV       | 68.00          | 300         | Vertical | Pass    |
| 2   | 2411.900        | 102.14           | -14.67      | 74.0           | -28.14      | Peak     | 103.00         | 150         | Vertical | N/A     |
| 2** | 2411.900        | 98.41            | -14.67      | 54.0           | -44.41      | AV       | 103.00         | 150         | Vertical | N/A     |
| 3   | 2912.700        | 48.72            | -11.87      | 74.0           | 25.28       | Peak     | 145.00         | 100         | Vertical | Pass    |
| 3** | 2912.700        | 39.19            | -11.87      | 54.0           | 14.81       | AV       | 145.00         | 100         | Vertical | Pass    |
| 4   | 4824.250        | 49.69            | -5.61       | 74.0           | 24.31       | Peak     | 204.00         | 150         | Vertical | Pass    |
| 4** | 4824.250        | 45.86            | -5.61       | 54.0           | 8.14        | AV       | 204.00         | 150         | Vertical | Pass    |
| 5   | 7871.000        | 52.86            | 0.43        | 74.0           | 21.14       | Peak     | 40.00          | 200         | Vertical | Pass    |
| 5** | 7871.000        | 44.33            | 0.43        | 54.0           | 9.67        | AV       | 40.00          | 200         | Vertical | Pass    |
| 6   | 17799.999       | 47.82            | 6.52        | 74.0           | 26.18       | Peak     | 220.00         | 100         | Vertical | Pass    |
| 6** | 17799.999       | 41.25            | 6.52        | 54.0           | 12.75       | AV       | 220.00         | 100         | 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   | 2096.600        | 45.34            | -16.68      | 74.0           | 28.66       | Peak     | 150.00         | 200         | Horizontal | Pass    |
| 1** | 2096.600        | 34.21            | -16.68      | 54.0           | 19.79       | AV       | 150.00         | 200         | Horizontal | Pass    |
| 2   | 2438.300        | 102.74           | -13.99      | 74.0           | -28.74      | Peak     | 31.00          | 200         | Horizontal | N/A     |
| 2** | 2438.300        | 99.81            | -13.99      | 54.0           | -45.81      | AV       | 31.00          | 200         | Horizontal | N/A     |
| 3   | 2989.000        | 49.43            | -12.36      | 74.0           | 24.57       | Peak     | 330.00         | 150         | Horizontal | Pass    |
| 3** | 2989.000        | 39.65            | -12.36      | 54.0           | 14.35       | AV       | 330.00         | 150         | Horizontal | Pass    |
| 4   | 4874.250        | 48.35            | -6.10       | 74.0           | 25.65       | Peak     | 343.00         | 300         | Horizontal | Pass    |
| 4** | 4874.250        | 44.17            | -6.10       | 54.0           | 9.83        | AV       | 343.00         | 300         | Horizontal | Pass    |
| 5   | 7862.500        | 53.39            | 0.18        | 74.0           | 20.61       | Peak     | 192.00         | 200         | Horizontal | Pass    |
| 5** | 7862.500        | 44.46            | 0.18        | 54.0           | 9.54        | AV       | 192.00         | 200         | Horizontal | Pass    |
| 6   | 17535.001       | 48.33            | 6.21        | 74.0           | 25.67       | Peak     | 253.00         | 400         | Horizontal | Pass    |
| 6** | 17535.001       | 39.40            | 6.21        | 54.0           | 14.60       | AV       | 253.00         | 400         | 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   | 1999.200        | 48.35            | -17.99      | 74.0           | 25.65       | Peak     | 183.00         | 100         | Vertical | Pass    |
| 1** | 1999.200        | 35.85            | -17.99      | 54.0           | 18.15       | AV       | 183.00         | 100         | Vertical | Pass    |
| 2   | 2436.900        | 101.84           | -14.12      | 74.0           | -27.84      | Peak     | 108.00         | 100         | Vertical | N/A     |
| 2** | 2436.900        | 97.67            | -14.12      | 54.0           | -43.67      | AV       | 108.00         | 100         | Vertical | N/A     |
| 3   | 2926.000        | 48.87            | -12.14      | 74.0           | 25.13       | Peak     | 166.00         | 150         | Vertical | Pass    |
| 3** | 2926.000        | 39.97            | -12.14      | 54.0           | 14.03       | AV       | 166.00         | 150         | Vertical | Pass    |
| 4   | 4874.250        | 49.94            | -6.10       | 74.0           | 24.06       | Peak     | 277.00         | 150         | Vertical | Pass    |
| 4** | 4874.250        | 45.89            | -6.10       | 54.0           | 8.11        | AV       | 277.00         | 150         | Vertical | Pass    |
| 5   | 7860.750        | 53.55            | 0.06        | 74.0           | 20.45       | Peak     | 208.00         | 400         | Vertical | Pass    |
| 5** | 7860.750        | 45.68            | 0.06        | 54.0           | 8.32        | AV       | 208.00         | 400         | Vertical | Pass    |
| 6   | 17792.500       | 47.57            | 6.30        | 74.0           | 26.43       | Peak     | 323.00         | 200         | Vertical | Pass    |
| 6** | 17792.500       | 40.74            | 6.30        | 54.0           | 13.26       | AV       | 323.00         | 200         | 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   | 2095.400        | 45.58            | -16.71      | 74.0           | 28.42       | Peak     | 0.00           | 300         | Horizontal | Pass    |
| 1** | 2095.400        | 34.04            | -16.71      | 54.0           | 19.96       | AV       | 0.00           | 300         | Horizontal | Pass    |
| 2   | 2463.400        | 102.39           | -13.68      | 74.0           | -28.39      | Peak     | 39.00          | 100         | Horizontal | N/A     |
| 2** | 2463.400        | 99.41            | -13.68      | 54.0           | -45.41      | AV       | 39.00          | 100         | Horizontal | N/A     |
| 3   | 2792.000        | 49.57            | -12.56      | 74.0           | 24.43       | Peak     | 229.00         | 150         | Horizontal | Pass    |
| 3** | 2792.000        | 39.45            | -12.56      | 54.0           | 14.55       | AV       | 229.00         | 150         | Horizontal | Pass    |
| 4   | 4924.000        | 48.32            | -4.86       | 74.0           | 25.68       | Peak     | 334.00         | 150         | Horizontal | Pass    |
| 4** | 4924.000        | 45.60            | -4.86       | 54.0           | 8.40        | AV       | 334.00         | 150         | Horizontal | Pass    |
| 5   | 7860.250        | 53.31            | 0.02        | 74.0           | 20.69       | Peak     | 71.00          | 100         | Horizontal | Pass    |
| 5** | 7860.250        | 44.97            | 0.02        | 54.0           | 9.03        | AV       | 71.00          | 100         | Horizontal | Pass    |
| 6   | 17785.000       | 49.15            | 6.07        | 74.0           | 24.85       | Peak     | 104.00         | 400         | Horizontal | Pass    |
| 6** | 17785.000       | 41.78            | 6.07        | 54.0           | 12.22       | AV       | 104.00         | 400         | 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   | 2396.900        | 54.39            | -14.63      | 74.0           | 19.61       | Peak     | 279.00         | 150         | Vertical | Pass    |
| 1** | 2396.900        | 49.59            | -14.63      | 54.0           | 4.41        | AV       | 279.00         | 150         | Vertical | Pass    |
| 2   | 2463.300        | 101.19           | -13.69      | 74.0           | -27.19      | Peak     | 103.00         | 200         | Vertical | N/A     |
| 2** | 2463.300        | 98.25            | -13.69      | 54.0           | -44.25      | AV       | 103.00         | 200         | Vertical | N/A     |
| 3   | 2732.400        | 49.27            | -11.62      | 74.0           | 24.73       | Peak     | 215.00         | 150         | Vertical | Pass    |
| 3** | 2732.400        | 39.63            | -11.62      | 54.0           | 14.37       | AV       | 215.00         | 150         | Vertical | Pass    |
| 4   | 4924.250        | 50.28            | -4.84       | 74.0           | 23.72       | Peak     | 291.00         | 300         | Vertical | Pass    |
| 4** | 4924.250        | 47.79            | -4.84       | 54.0           | 6.21        | AV       | 291.00         | 300         | Vertical | Pass    |
| 5   | 7862.000        | 53.07            | 0.14        | 74.0           | 20.93       | Peak     | 360.00         | 300         | Vertical | Pass    |
| 5** | 7862.000        | 44.87            | 0.14        | 54.0           | 9.13        | AV       | 360.00         | 300         | Vertical | Pass    |
| 6   | 17812.500       | 47.94            | 6.19        | 74.0           | 26.06       | Peak     | 84.00          | 300         | Vertical | Pass    |
| 6** | 17812.500       | 40.85            | 6.19        | 54.0           | 13.15       | AV       | 84.00          | 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   | 2019.900        | 44.07            | -16.76      | 74.0           | 29.93       | Peak     | 118.00         | 200         | Horizontal | Pass    |
| 1** | 2019.900        | 34.11            | -16.76      | 54.0           | 19.89       | AV       | 118.00         | 200         | Horizontal | Pass    |
| 2   | 2407.900        | 103.91           | -14.73      | 74.0           | -29.91      | Peak     | 129.00         | 200         | Horizontal | N/A     |
| 2** | 2407.900        | 97.30            | -14.73      | 54.0           | -43.30      | AV       | 129.00         | 200         | Horizontal | N/A     |
| 3   | 2988.500        | 48.55            | -12.37      | 74.0           | 25.45       | Peak     | 327.00         | 100         | Horizontal | Pass    |
| 3** | 2988.500        | 39.18            | -12.37      | 54.0           | 14.82       | AV       | 327.00         | 100         | Horizontal | Pass    |
| 4   | 4962.250        | 48.66            | -3.95       | 74.0           | 25.34       | Peak     | 165.00         | 200         | Horizontal | Pass    |
| 4** | 4962.250        | 39.89            | -3.95       | 54.0           | 14.11       | AV       | 165.00         | 200         | Horizontal | Pass    |
| 5   | 7897.000        | 53.10            | 0.01        | 74.0           | 20.90       | Peak     | 217.00         | 400         | Horizontal | Pass    |
| 5** | 7897.000        | 44.23            | 0.01        | 54.0           | 9.77        | AV       | 217.00         | 400         | Horizontal | Pass    |
| 6   | 17554.999       | 48.10            | 6.44        | 74.0           | 25.90       | Peak     | 133.00         | 400         | Horizontal | Pass    |
| 6** | 17554.999       | 39.90            | 6.44        | 54.0           | 14.10       | AV       | 133.00         | 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   | 1992.300        | 47.14            | -18.13      | 74.0           | 26.86       | Peak     | 73.00          | 100         | Vertical | Pass    |
| 1** | 1992.300        | 35.05            | -18.13      | 54.0           | 18.95       | AV       | 73.00          | 100         | Vertical | Pass    |
| 2   | 2405.300        | 104.70           | -14.76      | 74.0           | -30.70      | Peak     | 109.00         | 100         | Vertical | N/A     |
| 2** | 2405.300        | 97.20            | -14.76      | 54.0           | -43.20      | AV       | 109.00         | 100         | Vertical | N/A     |
| 3   | 2794.500        | 48.46            | -12.54      | 74.0           | 25.54       | Peak     | 172.00         | 100         | Vertical | Pass    |
| 3** | 2794.500        | 38.92            | -12.54      | 54.0           | 15.08       | AV       | 172.00         | 100         | Vertical | Pass    |
| 4   | 4826.250        | 47.13            | -5.66       | 74.0           | 26.87       | Peak     | 338.00         | 150         | Vertical | Pass    |
| 4** | 4826.250        | 42.52            | -5.66       | 54.0           | 11.48       | AV       | 338.00         | 150         | Vertical | Pass    |
| 5   | 7859.750        | 53.88            | -0.01       | 74.0           | 20.12       | Peak     | 302.00         | 200         | Vertical | Pass    |
| 5** | 7859.750        | 44.73            | -0.01       | 54.0           | 9.27        | AV       | 302.00         | 200         | Vertical | Pass    |
| 6   | 17817.500       | 47.44            | 6.05        | 74.0           | 26.56       | Peak     | 309.00         | 400         | Vertical | Pass    |
| 6** | 17817.500       | 40.06            | 6.05        | 54.0           | 13.94       | AV       | 309.00         | 400         | 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   | 2090.800        | 46.60            | -16.85      | 74.0           | 27.40       | Peak     | 143.00         | 200         | Horizontal | Pass    |
| 1** | 2090.800        | 34.62            | -16.85      | 54.0           | 19.38       | AV       | 143.00         | 200         | Horizontal | Pass    |
| 2   | 2443.800        | 103.91           | -13.45      | 74.0           | -29.91      | Peak     | 35.00          | 100         | Horizontal | N/A     |
| 2** | 2443.800        | 96.49            | -13.45      | 54.0           | -42.49      | AV       | 35.00          | 100         | Horizontal | N/A     |
| 3   | 2920.500        | 48.90            | -11.86      | 74.0           | 25.10       | Peak     | 109.00         | 200         | Horizontal | Pass    |
| 3** | 2920.500        | 39.22            | -11.86      | 54.0           | 14.78       | AV       | 109.00         | 200         | Horizontal | Pass    |
| 4   | 4959.500        | 49.30            | -3.82       | 74.0           | 24.70       | Peak     | 243.00         | 400         | Horizontal | Pass    |
| 4** | 4959.500        | 39.88            | -3.82       | 54.0           | 14.12       | AV       | 243.00         | 400         | Horizontal | Pass    |
| 5   | 7805.500        | 53.21            | 0.12        | 74.0           | 20.79       | Peak     | 44.00          | 200         | Horizontal | Pass    |
| 5** | 7805.500        | 44.70            | 0.12        | 54.0           | 9.30        | AV       | 44.00          | 200         | Horizontal | Pass    |
| 6   | 17789.999       | 48.00            | 6.22        | 74.0           | 26.00       | Peak     | 105.00         | 300         | Horizontal | Pass    |
| 6** | 17789.999       | 40.28            | 6.22        | 54.0           | 13.72       | AV       | 105.00         | 300         | 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   | 1999.900        | 48.15            | -17.95      | 74.0           | 25.85       | Peak     | 71.00          | 400         | Vertical | Pass    |
| 1** | 1999.900        | 39.06            | -17.95      | 54.0           | 14.94       | AV       | 71.00          | 400         | Vertical | Pass    |
| 2   | 2442.800        | 104.00           | -13.57      | 74.0           | -30.00      | Peak     | 107.00         | 100         | Vertical | N/A     |
| 2** | 2442.800        | 97.41            | -13.57      | 54.0           | -43.41      | AV       | 107.00         | 100         | Vertical | N/A     |
| 3   | 2599.000        | 47.07            | -12.14      | 74.0           | 26.93       | Peak     | 280.00         | 150         | Vertical | Pass    |
| 3** | 2599.000        | 47.31            | -12.14      | 54.0           | 6.69        | AV       | 280.00         | 150         | Vertical | Pass    |
| 4   | 4874.250        | 46.97            | -6.10       | 74.0           | 27.03       | Peak     | 215.00         | 150         | Vertical | Pass    |
| 4** | 4874.250        | 41.61            | -6.10       | 54.0           | 12.39       | AV       | 215.00         | 150         | Vertical | Pass    |
| 5   | 7874.000        | 53.82            | 0.45        | 74.0           | 20.18       | Peak     | 277.00         | 200         | Vertical | Pass    |
| 5** | 7874.000        | 44.24            | 0.45        | 54.0           | 9.76        | AV       | 277.00         | 200         | Vertical | Pass    |
| 6   | 17787.501       | 48.59            | 6.15        | 74.0           | 25.41       | Peak     | 196.00         | 100         | Vertical | Pass    |
| 6** | 17787.501       | 41.13            | 6.15        | 54.0           | 12.87       | AV       | 196.00         | 100         | 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   | 1996.200        | 44.40            | -18.06      | 74.0           | 29.60       | Peak     | 69.00          | 400         | Horizontal | Pass    |
| 1** | 1996.200        | 34.84            | -18.06      | 54.0           | 19.16       | AV       | 69.00          | 400         | Horizontal | Pass    |
| 2   | 2468.200        | 104.40           | -13.68      | 74.0           | -30.40      | Peak     | 304.00         | 100         | Horizontal | N/A     |
| 2** | 2468.200        | 96.91            | -13.68      | 54.0           | -42.91      | AV       | 304.00         | 100         | Horizontal | N/A     |
| 3   | 2785.500        | 48.80            | -12.82      | 74.0           | 25.20       | Peak     | 262.00         | 100         | Horizontal | Pass    |
| 3** | 2785.500        | 39.50            | -12.82      | 54.0           | 14.50       | AV       | 262.00         | 100         | Horizontal | Pass    |
| 4   | 4962.750        | 48.39            | -3.97       | 74.0           | 25.61       | Peak     | 92.00          | 300         | Horizontal | Pass    |
| 4** | 4962.750        | 40.00            | -3.97       | 54.0           | 14.00       | AV       | 92.00          | 300         | Horizontal | Pass    |
| 5   | 7542.000        | 53.62            | -0.25       | 74.0           | 20.38       | Peak     | 126.00         | 100         | Horizontal | Pass    |
| 5** | 7542.000        | 44.25            | -0.25       | 54.0           | 9.75        | AV       | 126.00         | 100         | Horizontal | Pass    |
| 6   | 17782.499       | 48.80            | 6.00        | 74.0           | 25.20       | Peak     | 130.00         | 100         | Horizontal | Pass    |
| 6** | 17782.499       | 40.56            | 6.00        | 54.0           | 13.44       | AV       | 130.00         | 100         | 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   | 2100.300        | 50.35            | -16.42      | 74.0           | 23.65       | Peak     | 70.00          | 150         | Vertical | Pass    |
| 1** | 2100.300        | 34.83            | -16.42      | 54.0           | 19.17       | AV       | 70.00          | 150         | Vertical | Pass    |
| 2   | 2455.600        | 104.00           | -13.41      | 74.0           | -30.00      | Peak     | 102.00         | 200         | Vertical | N/A     |
| 2** | 2455.600        | 96.80            | -13.41      | 54.0           | -42.80      | AV       | 102.00         | 200         | Vertical | N/A     |
| 3   | 2789.700        | 49.61            | -12.63      | 74.0           | 24.39       | Peak     | 239.00         | 200         | Vertical | Pass    |
| 3** | 2789.700        | 39.76            | -12.63      | 54.0           | 14.24       | AV       | 239.00         | 200         | Vertical | Pass    |
| 4   | 4926.250        | 45.43            | -4.77       | 74.0           | 28.57       | Peak     | 285.00         | 150         | Vertical | Pass    |
| 4** | 4926.250        | 41.96            | -4.77       | 54.0           | 12.04       | AV       | 285.00         | 150         | Vertical | Pass    |
| 5   | 7867.000        | 53.55            | 0.34        | 74.0           | 20.45       | Peak     | 214.00         | 100         | Vertical | Pass    |
| 5** | 7867.000        | 44.28            | 0.34        | 54.0           | 9.72        | AV       | 214.00         | 100         | Vertical | Pass    |
| 6   | 17550.000       | 49.37            | 6.50        | 74.0           | 24.63       | Peak     | 101.00         | 300         | Vertical | Pass    |
| 6** | 17550.000       | 40.69            | 6.50        | 54.0           | 13.31       | AV       | 101.00         | 300         | 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   | 1993.600        | 45.43            | -18.10      | 74.0           | 28.57       | Peak     | 84.00          | 300         | Horizontal | Pass    |
| 1** | 1993.600        | 34.93            | -18.10      | 54.0           | 19.07       | AV       | 84.00          | 300         | Horizontal | Pass    |
| 2   | 2407.400        | 103.30           | -14.73      | 74.0           | -29.30      | Peak     | 130.00         | 100         | Horizontal | N/A     |
| 2** | 2407.400        | 95.94            | -14.73      | 54.0           | -41.94      | AV       | 130.00         | 100         | Horizontal | N/A     |
| 3   | 2742.000        | 48.29            | -12.52      | 74.0           | 25.71       | Peak     | 64.00          | 100         | Horizontal | Pass    |
| 3** | 2742.000        | 39.19            | -12.52      | 54.0           | 14.81       | AV       | 64.00          | 100         | Horizontal | Pass    |
| 4   | 4813.500        | 48.91            | -5.13       | 74.0           | 25.09       | Peak     | 295.00         | 400         | Horizontal | Pass    |
| 4** | 4813.500        | 39.87            | -5.13       | 54.0           | 14.13       | AV       | 295.00         | 400         | Horizontal | Pass    |
| 5   | 7897.250        | 55.05            | 0.02        | 74.0           | 18.95       | Peak     | 243.00         | 100         | Horizontal | Pass    |
| 5** | 7897.250        | 44.15            | 0.02        | 54.0           | 9.85        | AV       | 243.00         | 100         | Horizontal | Pass    |
| 6   | 17780.001       | 48.64            | 5.92        | 74.0           | 25.36       | Peak     | 0.00           | 400         | Horizontal | Pass    |
| 6** | 17780.001       | 40.26            | 5.92        | 54.0           | 13.74       | AV       | 0.00           | 400         | 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   | 2095.400        | 49.84            | -16.71      | 74.0           | 24.16       | Peak     | 184.00         | 300         | Vertical | Pass    |
| 1** | 2095.400        | 40.74            | -16.71      | 54.0           | 13.26       | AV       | 184.00         | 300         | Vertical | Pass    |
| 2   | 2407.600        | 103.27           | -14.73      | 74.0           | -29.27      | Peak     | 100.00         | 150         | Vertical | N/A     |
| 2** | 2407.600        | 95.59            | -14.73      | 54.0           | -41.59      | AV       | 100.00         | 150         | Vertical | N/A     |
| 3   | 2792.700        | 49.23            | -12.55      | 74.0           | 24.77       | Peak     | 205.00         | 100         | Vertical | Pass    |
| 3** | 2792.700        | 39.60            | -12.55      | 54.0           | 14.40       | AV       | 205.00         | 100         | Vertical | Pass    |
| 4   | 3997.500        | 49.07            | -7.76       | 74.0           | 24.93       | Peak     | 48.00          | 400         | Vertical | Pass    |
| 4** | 3997.500        | 36.63            | -7.76       | 54.0           | 17.37       | AV       | 48.00          | 400         | Vertical | Pass    |
| 5   | 7608.250        | 53.68            | -0.91       | 74.0           | 20.32       | Peak     | 360.00         | 400         | Vertical | Pass    |
| 5** | 7608.250        | 42.99            | -0.91       | 54.0           | 11.01       | AV       | 360.00         | 400         | Vertical | Pass    |
| 6   | 17592.500       | 47.70            | 5.95        | 74.0           | 26.30       | Peak     | 2.00           | 400         | Vertical | Pass    |
| 6** | 17592.500       | 39.57            | 5.95        | 54.0           | 14.43       | AV       | 2.00           | 400         | 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   | 2097.000        | 45.65            | -16.67      | 74.0           | 28.35       | Peak     | 247.00         | 200         | Horizontal | Pass    |
| 1** | 2097.000        | 34.71            | -16.67      | 54.0           | 19.29       | AV       | 247.00         | 200         | Horizontal | Pass    |
| 2   | 2441.100        | 104.01           | -13.75      | 74.0           | -30.01      | Peak     | 120.00         | 100         | Horizontal | N/A     |
| 2** | 2441.100        | 96.20            | -13.75      | 54.0           | -42.20      | AV       | 120.00         | 100         | Horizontal | N/A     |
| 3   | 2868.100        | 48.63            | -12.41      | 74.0           | 25.37       | Peak     | 222.00         | 150         | Horizontal | Pass    |
| 3** | 2868.100        | 38.80            | -12.41      | 54.0           | 15.20       | AV       | 222.00         | 150         | Horizontal | Pass    |
| 4   | 4960.000        | 48.95            | -3.84       | 74.0           | 25.05       | Peak     | 262.00         | 300         | Horizontal | Pass    |
| 4** | 4960.000        | 40.08            | -3.84       | 54.0           | 13.92       | AV       | 262.00         | 300         | Horizontal | Pass    |
| 5   | 7874.500        | 53.51            | 0.46        | 74.0           | 20.49       | Peak     | 360.00         | 400         | Horizontal | Pass    |
| 5** | 7874.500        | 44.36            | 0.46        | 54.0           | 9.64        | AV       | 360.00         | 400         | Horizontal | Pass    |
| 6   | 17799.999       | 48.27            | 6.52        | 74.0           | 25.73       | Peak     | 223.00         | 100         | Horizontal | Pass    |
| 6** | 17799.999       | 40.90            | 6.52        | 54.0           | 13.10       | AV       | 223.00         | 100         | 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   | 1999.800        | 48.27            | -17.96      | 74.0           | 25.73       | Peak     | 297.00         | 200         | Vertical | Pass    |
| 1** | 1999.800        | 35.49            | -17.96      | 54.0           | 18.51       | AV       | 297.00         | 200         | Vertical | Pass    |
| 2   | 2444.100        | 104.00           | -13.43      | 74.0           | -30.00      | Peak     | 112.00         | 200         | Vertical | N/A     |
| 2** | 2444.100        | 96.72            | -13.43      | 54.0           | -42.72      | AV       | 112.00         | 200         | Vertical | N/A     |
| 3   | 2956.800        | 48.93            | -12.43      | 74.0           | 25.07       | Peak     | 193.00         | 100         | Vertical | Pass    |
| 3** | 2956.800        | 39.51            | -12.43      | 54.0           | 14.49       | AV       | 193.00         | 100         | Vertical | Pass    |
| 4   | 3994.000        | 47.68            | -7.71       | 74.0           | 26.32       | Peak     | 171.00         | 150         | Vertical | Pass    |
| 4** | 3994.000        | 36.21            | -7.71       | 54.0           | 17.79       | AV       | 171.00         | 150         | Vertical | Pass    |
| 5   | 7862.000        | 53.46            | 0.14        | 74.0           | 20.54       | Peak     | 83.00          | 100         | Vertical | Pass    |
| 5** | 7862.000        | 44.67            | 0.14        | 54.0           | 9.33        | AV       | 83.00          | 100         | Vertical | Pass    |
| 6   | 17557.500       | 47.76            | 6.40        | 74.0           | 26.24       | Peak     | 65.00          | 400         | Vertical | Pass    |
| 6** | 17557.500       | 39.20            | 6.40        | 54.0           | 14.80       | AV       | 65.00          | 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   | 2093.100        | 48.53            | -16.80      | 74.0           | 25.47       | Peak     | 0.00           | 300         | Horizontal | Pass    |
| 1** | 2093.100        | 34.87            | -16.80      | 54.0           | 19.13       | AV       | 0.00           | 300         | Horizontal | Pass    |
| 2   | 2455.100        | 104.49           | -13.38      | 74.0           | -30.49      | Peak     | 130.00         | 100         | Horizontal | N/A     |
| 2** | 2455.100        | 96.48            | -13.38      | 54.0           | -42.48      | AV       | 130.00         | 100         | Horizontal | N/A     |
| 3   | 2922.400        | 49.50            | -11.93      | 74.0           | 24.50       | Peak     | 309.00         | 200         | Horizontal | Pass    |
| 3** | 2922.400        | 39.23            | -11.93      | 54.0           | 14.77       | AV       | 309.00         | 200         | Horizontal | Pass    |
| 4   | 4990.250        | 48.94            | -4.14       | 74.0           | 25.06       | Peak     | 223.00         | 100         | Horizontal | Pass    |
| 4** | 4990.250        | 39.61            | -4.14       | 54.0           | 14.39       | AV       | 223.00         | 100         | Horizontal | Pass    |
| 5   | 7861.250        | 53.82            | 0.09        | 74.0           | 20.18       | Peak     | 292.00         | 400         | Horizontal | Pass    |
| 5** | 7861.250        | 45.73            | 0.09        | 54.0           | 8.27        | AV       | 292.00         | 400         | Horizontal | Pass    |
| 6   | 17817.500       | 48.06            | 6.05        | 74.0           | 25.94       | Peak     | 198.00         | 300         | Horizontal | Pass    |
| 6** | 17817.500       | 39.95            | 6.05        | 54.0           | 14.05       | AV       | 198.00         | 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   | 2093.000        | 48.25            | -16.80      | 74.0           | 25.75       | Peak     | 247.00         | 300         | Vertical | Pass    |
| 1** | 2093.000        | 35.75            | -16.80      | 54.0           | 18.25       | AV       | 247.00         | 300         | Vertical | Pass    |
| 2   | 2456.300        | 103.70           | -13.45      | 74.0           | -29.70      | Peak     | 102.00         | 200         | Vertical | N/A     |
| 2** | 2456.300        | 96.85            | -13.45      | 54.0           | -42.85      | AV       | 102.00         | 200         | Vertical | N/A     |
| 3   | 2796.400        | 49.23            | -12.70      | 74.0           | 24.77       | Peak     | 172.00         | 100         | Vertical | Pass    |
| 3** | 2796.400        | 39.18            | -12.70      | 54.0           | 14.82       | AV       | 172.00         | 100         | Vertical | Pass    |
| 4   | 4785.250        | 49.49            | -5.29       | 74.0           | 24.51       | Peak     | 183.00         | 300         | Vertical | Pass    |
| 4** | 4785.250        | 39.32            | -5.29       | 54.0           | 14.68       | AV       | 183.00         | 300         | Vertical | Pass    |
| 5   | 7862.750        | 53.41            | 0.18        | 74.0           | 20.59       | Peak     | 31.00          | 300         | Vertical | Pass    |
| 5** | 7862.750        | 45.34            | 0.18        | 54.0           | 8.66        | AV       | 31.00          | 300         | Vertical | Pass    |
| 6   | 17785.000       | 47.89            | 6.07        | 74.0           | 26.11       | Peak     | 311.00         | 100         | Vertical | Pass    |
| 6** | 17785.000       | 41.24            | 6.07        | 54.0           | 12.76       | AV       | 311.00         | 100         | Vertical | Pass    |

## 1 GHz to 18 GHz, ANT H 802.11n40 Low Channel

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna    | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|----------------|-------------|------------|---------|
| 1   | 1993.600        | 45.69            | -18.10      | 74.0           | 28.31       | Peak     | 319.00         | 200         | Horizontal | Pass    |
| 1** | 1993.600        | 37.81            | -18.10      | 54.0           | 16.19       | AV       | 319.00         | 200         | Horizontal | Pass    |
| 2   | 2410.400        | 100.98           | -14.71      | 74.0           | -26.98      | Peak     | 120.00         | 150         | Horizontal | N/A     |
| 2** | 2410.400        | 93.27            | -14.71      | 54.0           | -39.27      | AV       | 120.00         | 150         | Horizontal | N/A     |
| 3   | 2917.600        | 48.88            | -11.77      | 74.0           | 25.12       | Peak     | 68.00          | 200         | Horizontal | Pass    |
| 3** | 2917.600        | 39.70            | -11.77      | 54.0           | 14.30       | AV       | 68.00          | 200         | Horizontal | Pass    |
| 4   | 4977.750        | 48.48            | -4.12       | 74.0           | 25.52       | Peak     | 95.00          | 100         | Horizontal | Pass    |
| 4** | 4977.750        | 39.90            | -4.12       | 54.0           | 14.10       | AV       | 95.00          | 100         | Horizontal | Pass    |
| 5   | 7860.250        | 53.47            | 0.02        | 74.0           | 20.53       | Peak     | 296.00         | 400         | Horizontal | Pass    |
| 5** | 7860.250        | 44.74            | 0.02        | 54.0           | 9.26        | AV       | 296.00         | 400         | Horizontal | Pass    |
| 6   | 17545.001       | 48.35            | 6.40        | 74.0           | 25.65       | Peak     | 10.00          | 300         | Horizontal | Pass    |
| 6** | 17545.001       | 40.01            | 6.40        | 54.0           | 13.99       | AV       | 10.00          | 300         | Horizontal | Pass    |

## 1 GHz to 18 GHz, ANT V 802.11n40 Low Channel

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna  | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|----------------|-------------|----------|---------|
| 1   | 2093.500        | 50.69            | -16.78      | 74.0           | 23.31       | Peak     | 251.00         | 400         | Vertical | Pass    |
| 1** | 2093.500        | 35.88            | -16.78      | 54.0           | 18.12       | AV       | 251.00         | 400         | Vertical | Pass    |
| 2   | 2435.600        | 100.39           | -14.27      | 74.0           | -26.39      | Peak     | 114.00         | 100         | Vertical | N/A     |
| 2** | 2435.600        | 92.10            | -14.27      | 54.0           | -38.10      | AV       | 114.00         | 100         | Vertical | N/A     |
| 3   | 2793.100        | 48.72            | -12.55      | 74.0           | 25.28       | Peak     | 134.00         | 100         | Vertical | Pass    |
| 3** | 2793.100        | 38.94            | -12.55      | 54.0           | 15.06       | AV       | 134.00         | 100         | Vertical | Pass    |
| 4   | 4955.750        | 49.49            | -3.63       | 74.0           | 24.51       | Peak     | 120.00         | 200         | Vertical | Pass    |
| 4** | 4955.750        | 39.44            | -3.63       | 54.0           | 14.56       | AV       | 120.00         | 200         | Vertical | Pass    |
| 5   | 7821.500        | 54.30            | 0.08        | 74.0           | 19.70       | Peak     | 294.00         | 300         | Vertical | Pass    |
| 5** | 7821.500        | 44.61            | 0.08        | 54.0           | 9.39        | AV       | 294.00         | 300         | Vertical | Pass    |
| 6   | 17529.999       | 47.94            | 6.12        | 74.0           | 26.06       | Peak     | 0.00           | 100         | Vertical | Pass    |
| 6** | 17529.999       | 39.71            | 6.12        | 54.0           | 14.29       | AV       | 0.00           | 100         | Vertical | Pass    |

## 1 GHz to 18 GHz, ANT H 802.11n40 Middle Channel

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna    | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|----------------|-------------|------------|---------|
| 1   | 1996.100        | 45.47            | -18.05      | 74.0           | 28.53       | Peak     | 149.00         | 200         | Horizontal | Pass    |
| 1** | 1996.100        | 33.44            | -18.05      | 54.0           | 20.56       | AV       | 149.00         | 200         | Horizontal | Pass    |
| 2   | 2452.500        | 101.27           | -13.30      | 74.0           | -27.27      | Peak     | 128.00         | 200         | Horizontal | N/A     |
| 2** | 2452.500        | 93.89            | -13.30      | 54.0           | -39.89      | AV       | 128.00         | 200         | Horizontal | N/A     |
| 3   | 2908.400        | 48.70            | -11.97      | 74.0           | 25.30       | Peak     | 183.00         | 100         | Horizontal | Pass    |
| 3** | 2908.400        | 40.21            | -11.97      | 54.0           | 13.79       | AV       | 183.00         | 100         | Horizontal | Pass    |
| 4   | 4987.500        | 48.55            | -4.20       | 74.0           | 25.45       | Peak     | 256.00         | 400         | Horizontal | Pass    |
| 4** | 4987.500        | 39.09            | -4.20       | 54.0           | 14.91       | AV       | 256.00         | 400         | Horizontal | Pass    |
| 5   | 7494.000        | 53.83            | -0.41       | 74.0           | 20.17       | Peak     | 2.00           | 200         | Horizontal | Pass    |
| 5** | 7494.000        | 44.75            | -0.41       | 54.0           | 9.25        | AV       | 2.00           | 200         | Horizontal | Pass    |
| 6   | 17762.501       | 47.87            | 5.40        | 74.0           | 26.13       | Peak     | 286.00         | 100         | Horizontal | Pass    |
| 6** | 17762.501       | 38.99            | 5.40        | 54.0           | 15.01       | AV       | 286.00         | 100         | Horizontal | Pass    |

## 1 GHz to 18 GHz, ANT V 802.11n40 Middle Channel

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna  | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|----------------|-------------|----------|---------|
| 1   | 2196.400        | 50.77            | -15.17      | 74.0           | 23.23       | Peak     | 313.00         | 150         | Vertical | Pass    |
| 1** | 2196.400        | 38.46            | -15.17      | 54.0           | 15.54       | AV       | 313.00         | 150         | Vertical | Pass    |
| 2   | 2439.700        | 100.98           | -13.89      | 74.0           | -26.98      | Peak     | 100.00         | 100         | Vertical | N/A     |
| 2** | 2439.700        | 92.99            | -13.89      | 54.0           | -38.99      | AV       | 100.00         | 100         | Vertical | N/A     |
| 3   | 2797.400        | 48.98            | -12.72      | 74.0           | 25.02       | Peak     | 128.00         | 200         | Vertical | Pass    |
| 3** | 2797.400        | 40.33            | -12.72      | 54.0           | 13.67       | AV       | 128.00         | 200         | Vertical | Pass    |
| 4   | 4786.000        | 48.84            | -5.26       | 74.0           | 25.16       | Peak     | 248.00         | 100         | Vertical | Pass    |
| 4** | 4786.000        | 38.69            | -5.26       | 54.0           | 15.31       | AV       | 248.00         | 100         | Vertical | Pass    |
| 5   | 7864.750        | 54.25            | 0.20        | 74.0           | 19.75       | Peak     | 306.00         | 400         | Vertical | Pass    |
| 5** | 7864.750        | 45.07            | 0.20        | 54.0           | 8.93        | AV       | 306.00         | 400         | Vertical | Pass    |
| 6   | 17795.000       | 47.51            | 6.37        | 74.0           | 26.49       | Peak     | 143.00         | 200         | Vertical | Pass    |
| 6** | 17795.000       | 40.79            | 6.37        | 54.0           | 13.21       | AV       | 143.00         | 200         | Vertical | Pass    |

## 1 GHz to 18 GHz, ANT H 802.11n40 High Channel

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna    | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|----------------|-------------|------------|---------|
| 1   | 2096.100        | 46.50            | -16.69      | 74.0           | 27.50       | Peak     | 131.00         | 100         | Horizontal | Pass    |
| 1** | 2096.100        | 38.07            | -16.69      | 54.0           | 15.93       | AV       | 131.00         | 100         | Horizontal | Pass    |
| 2   | 2448.900        | 101.66           | -13.20      | 74.0           | -27.66      | Peak     | 126.00         | 150         | Horizontal | N/A     |
| 2** | 2448.900        | 93.99            | -13.20      | 54.0           | -39.99      | AV       | 126.00         | 150         | Horizontal | N/A     |
| 3   | 2733.600        | 48.78            | -11.71      | 74.0           | 25.22       | Peak     | 99.00          | 150         | Horizontal | Pass    |
| 3** | 2733.600        | 40.48            | -11.71      | 54.0           | 13.52       | AV       | 99.00          | 150         | Horizontal | Pass    |
| 4   | 4990.250        | 48.63            | -4.14       | 74.0           | 25.37       | Peak     | 1.00           | 300         | Horizontal | Pass    |
| 4** | 4990.250        | 40.02            | -4.14       | 54.0           | 13.98       | AV       | 1.00           | 300         | Horizontal | Pass    |
| 5   | 7790.500        | 53.55            | -0.59       | 74.0           | 20.45       | Peak     | 1.00           | 200         | Horizontal | Pass    |
| 5** | 7790.500        | 43.94            | -0.59       | 54.0           | 10.06       | AV       | 1.00           | 200         | Horizontal | Pass    |
| 6   | 17999.999       | 47.82            | 5.45        | 74.0           | 26.18       | Peak     | 147.00         | 150         | Horizontal | Pass    |
| 6** | 17999.999       | 39.44            | 5.45        | 54.0           | 14.56       | AV       | 147.00         | 150         | Horizontal | Pass    |

## 1 GHz to 18 GHz, ANT V 802.11n40 High Channel

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna  | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|----------------|-------------|----------|---------|
| 1   | 2093.400        | 49.93            | -16.79      | 74.0           | 24.07       | Peak     | 221.00         | 200         | Vertical | Pass    |
| 1** | 2093.400        | 35.39            | -16.79      | 54.0           | 18.61       | AV       | 221.00         | 200         | Vertical | Pass    |
| 2   | 2448.800        | 100.99           | -13.21      | 74.0           | -26.99      | Peak     | 112.00         | 150         | Vertical | N/A     |
| 2** | 2448.800        | 93.48            | -13.21      | 54.0           | -39.48      | AV       | 112.00         | 150         | Vertical | N/A     |
| 3   | 2598.200        | 54.12            | -12.17      | 74.0           | 19.88       | Peak     | 143.00         | 150         | Vertical | Pass    |
| 3** | 2598.200        | 40.50            | -12.17      | 54.0           | 13.50       | AV       | 143.00         | 150         | Vertical | Pass    |
| 4   | 4783.000        | 50.13            | -5.27       | 74.0           | 23.87       | Peak     | 177.00         | 200         | Vertical | Pass    |
| 4** | 4783.000        | 38.87            | -5.27       | 54.0           | 15.13       | AV       | 177.00         | 200         | Vertical | Pass    |
| 5   | 7811.250        | 53.86            | 0.29        | 74.0           | 20.14       | Peak     | 0.00           | 100         | Vertical | Pass    |
| 5** | 7811.250        | 44.13            | 0.29        | 54.0           | 9.87        | AV       | 0.00           | 100         | Vertical | Pass    |
| 6   | 17814.999       | 48.35            | 6.12        | 74.0           | 25.65       | Peak     | 24.00          | 300         | Vertical | Pass    |
| 6** | 17814.999       | 40.07            | 6.12        | 54.0           | 13.93       | AV       | 24.00          | 300         | 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.

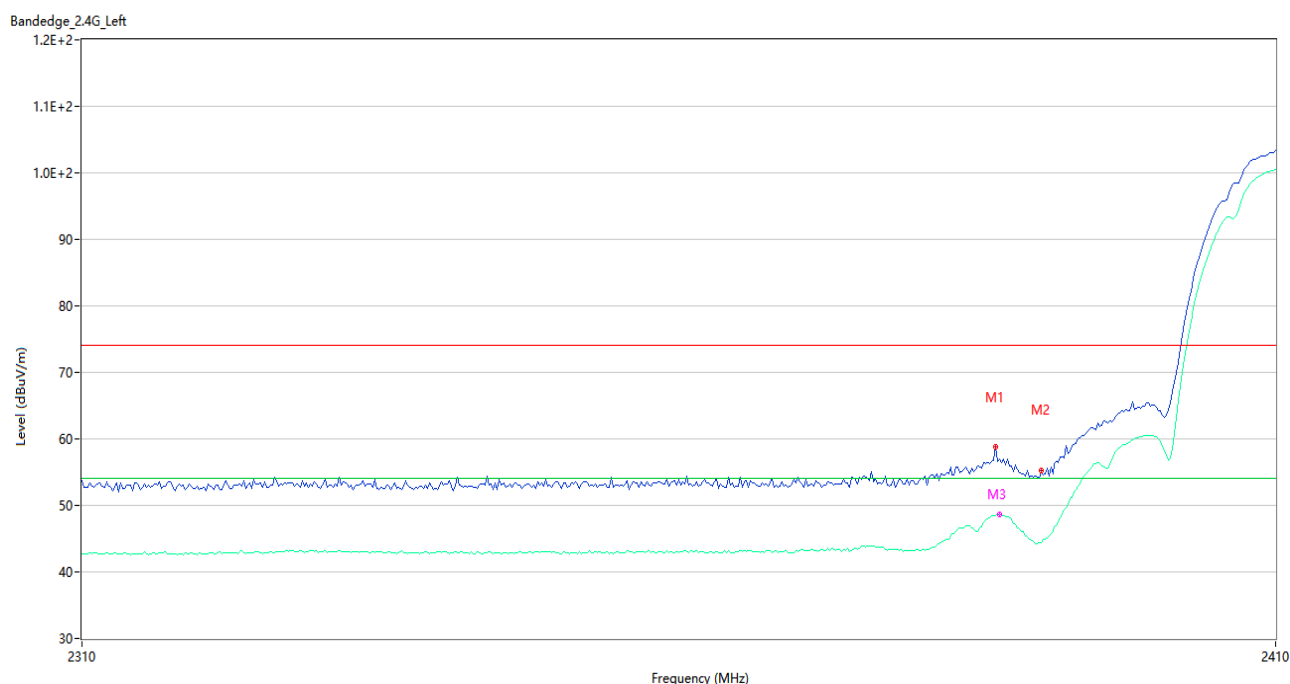
Note <sup>3</sup>: According the ANSI C63.10-2013, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

Note <sup>4</sup>: All antenna were tested, but only the worst case has been reported in this report.

### Test Data and Plots

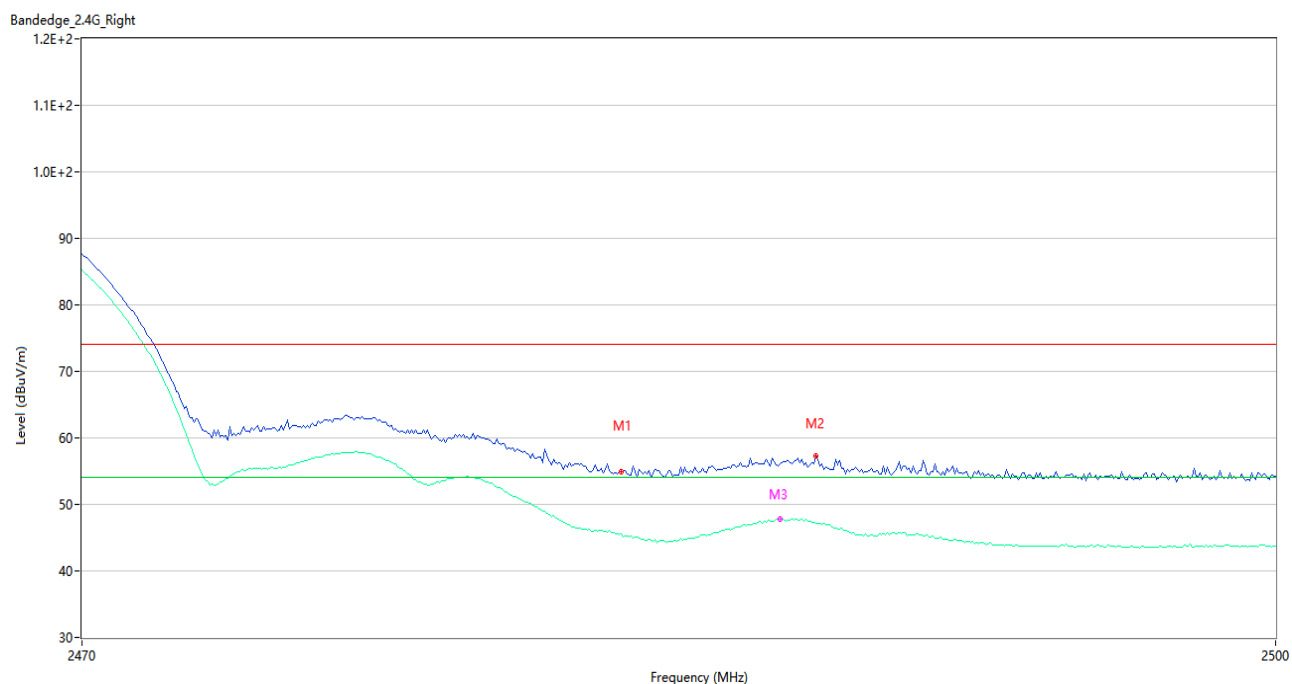
#### SISO-Antenna 2

##### 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   | 2386.167        | 58.81            | -2.21       | 74.0           | 15.19       | Peak     | 104.00         | 100         | Horizontal | Pass    |
| 1** | 2386.167        | 48.56            | -2.21       | 54.0           | 5.44        | AV       | 104.00         | 100         | Horizontal | Pass    |
| 2   | 2390.000        | 55.22            | -2.35       | 74.0           | 18.78       | Peak     | 98.00          | 200         | Horizontal | Pass    |
| 2** | 2390.000        | 44.35            | -2.35       | 54.0           | 9.65        | AV       | 98.00          | 200         | Horizontal | Pass    |
| 3   | 2386.500        | 56.89            | -2.21       | 74.0           | 17.11       | Peak     | 104.00         | 150         | Horizontal | Pass    |
| 3** | 2386.500        | 48.66            | -2.21       | 54.0           | 5.34        | AV       | 104.00         | 150         | Horizontal | Pass    |

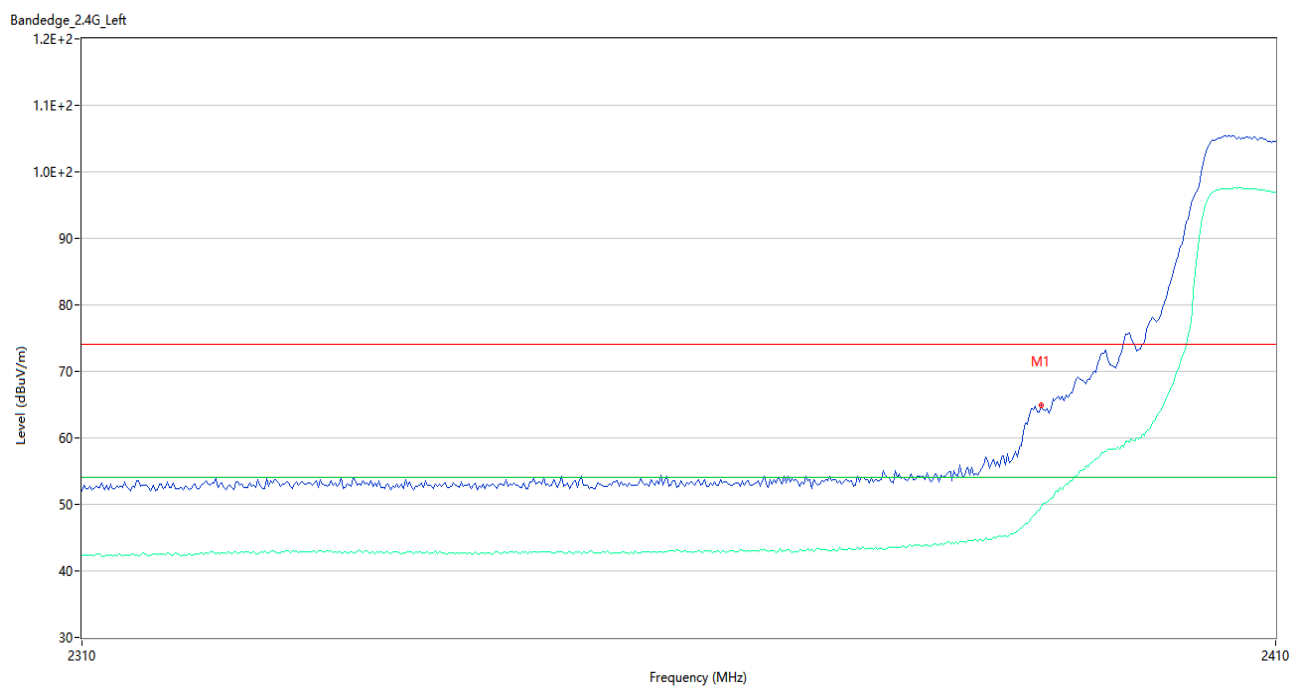
## 802.11b HIGH CHANNEL



| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna    | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|----------------|-------------|------------|---------|
| 1   | 2483.500        | 54.85            | -0.86       | 74.0           | 19.15       | Peak     | 260.00         | 150         | Horizontal | Pass    |
| 1** | 2483.500        | 45.53            | -0.86       | 54.0           | 8.47        | AV       | 260.00         | 150         | Horizontal | Pass    |
| 2   | 2488.400        | 57.23            | -0.78       | 74.0           | 16.77       | Peak     | 99.00          | 150         | Horizontal | Pass    |
| 2** | 2488.400        | 47.19            | -0.78       | 54.0           | 6.81        | AV       | 99.00          | 150         | Horizontal | Pass    |
| 3   | 2487.500        | 56.08            | -0.80       | 74.0           | 17.92       | Peak     | 260.00         | 150         | Horizontal | Pass    |
| 3** | 2487.500        | 47.81            | -0.80       | 54.0           | 6.19        | AV       | 260.00         | 150         | Horizontal | Pass    |

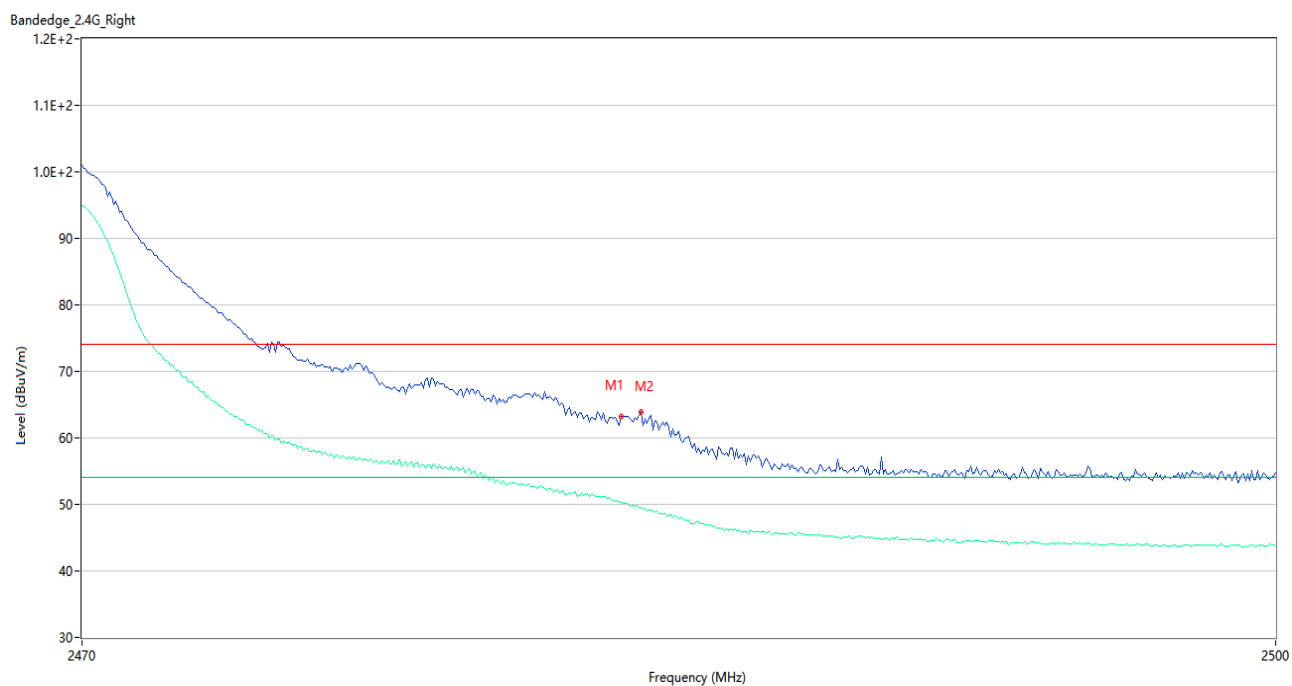


## 802.11g LOW CHANNEL



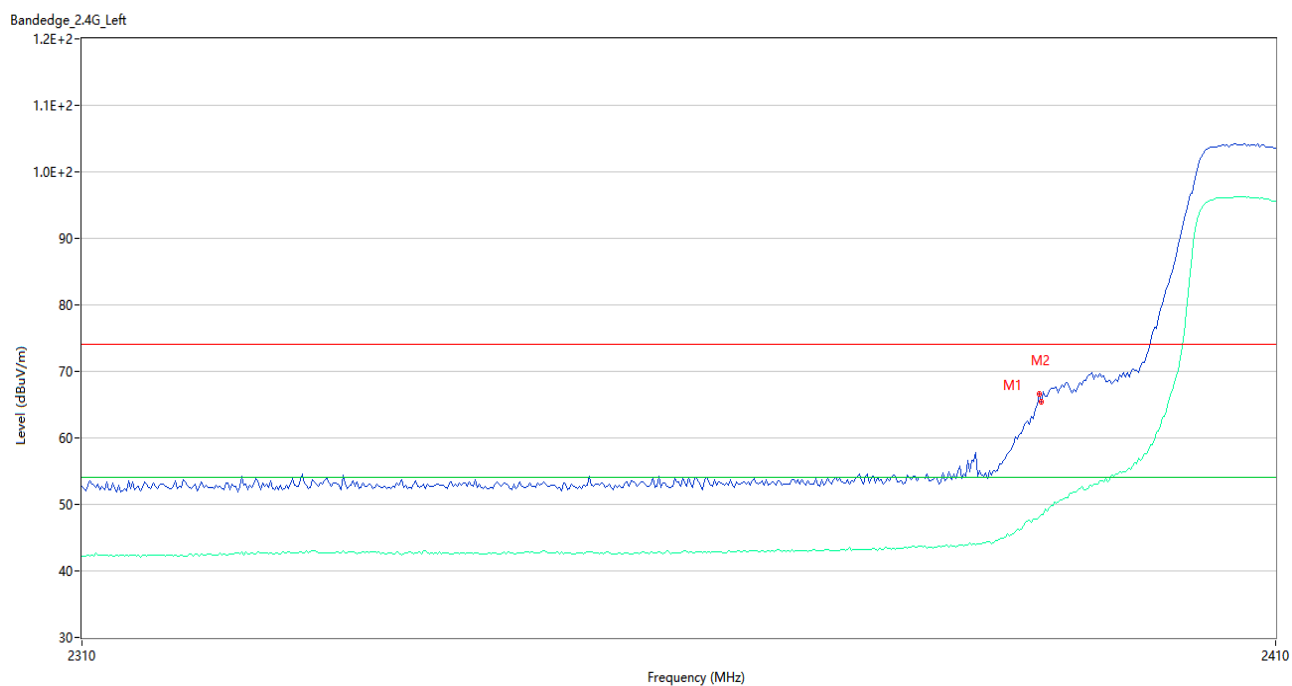
| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna    | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|----------------|-------------|------------|---------|
| 1   | 2390.000        | 64.90            | -2.35       | 74.0           | 9.10        | Peak     | 121.00         | 200         | Horizontal | Pass    |
| 1** | 2390.000        | 49.64            | -2.35       | 54.0           | 4.36        | AV       | 121.00         | 200         | Horizontal | Pass    |

## 802.11g HIGH CHANNEL



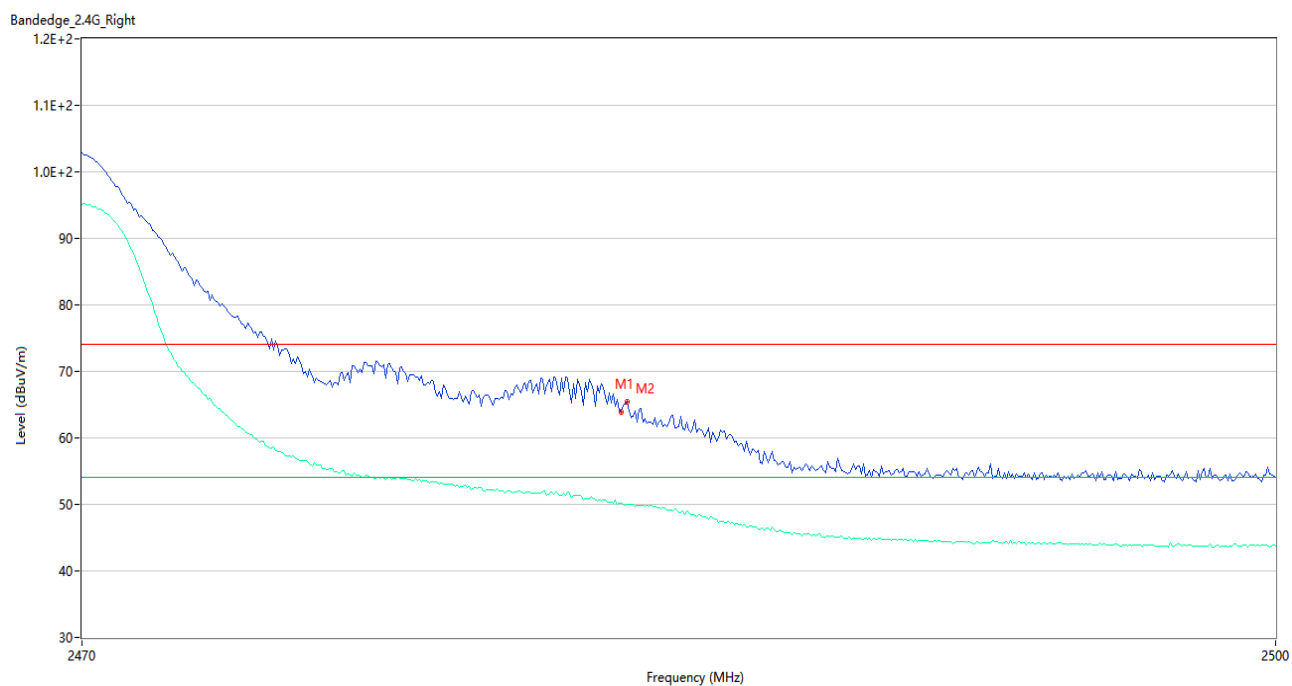
| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna    | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|----------------|-------------|------------|---------|
| 1   | 2483.500        | 63.17            | -0.86       | 74.0           | 10.83       | Peak     | 124.00         | 100         | Horizontal | Pass    |
| 1** | 2483.500        | 50.29            | -0.86       | 54.0           | 3.71        | AV       | 124.00         | 100         | Horizontal | Pass    |
| 2   | 2484.000        | 63.98            | -0.84       | 74.0           | 10.02       | Peak     | 128.00         | 200         | Horizontal | Pass    |
| 2** | 2484.000        | 49.47            | -0.84       | 54.0           | 4.53        | AV       | 128.00         | 200         | Horizontal | Pass    |

## 802.11n20 LOW CHANNEL



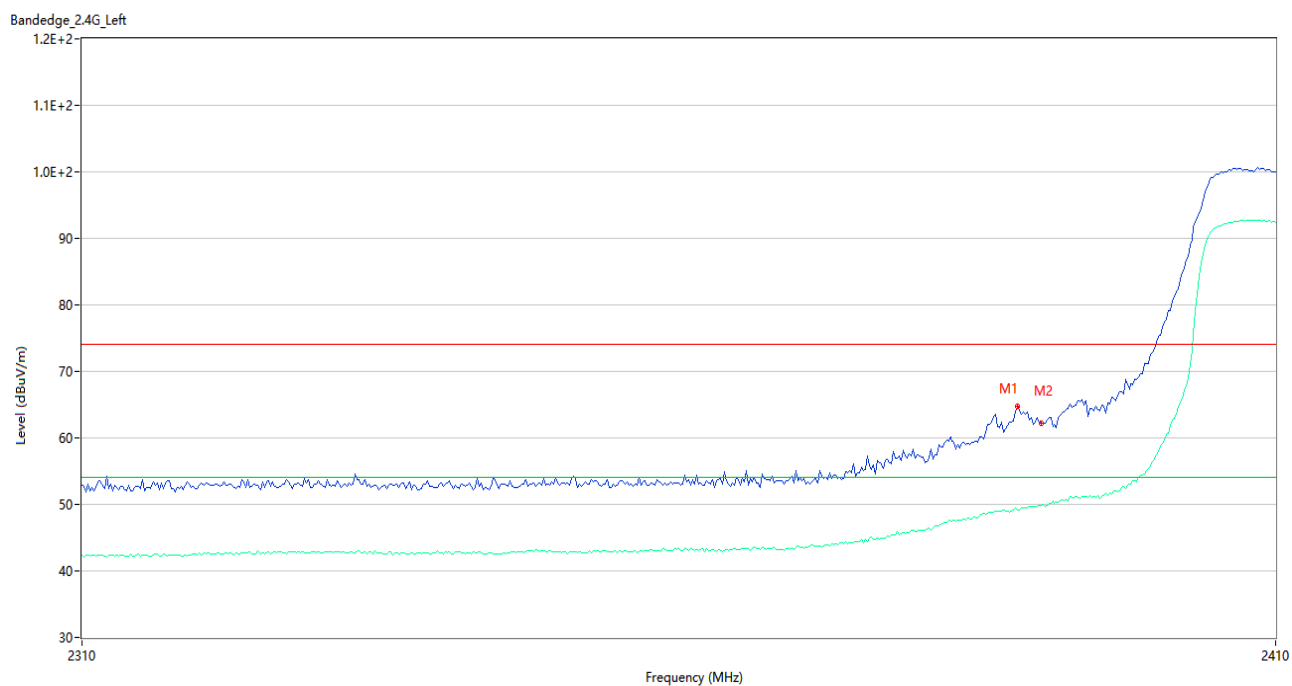
| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna    | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|----------------|-------------|------------|---------|
| 1   | 2389.833        | 66.60            | -2.34       | 74.0           | 7.40        | Peak     | 305.00         | 150         | Horizontal | Pass    |
| 1** | 2389.833        | 48.12            | -2.34       | 54.0           | 5.88        | AV       | 305.00         | 150         | Horizontal | Pass    |
| 2   | 2390.000        | 65.37            | -2.35       | 74.0           | 8.63        | Peak     | 119.00         | 200         | Horizontal | Pass    |
| 2** | 2390.000        | 48.50            | -2.35       | 54.0           | 5.50        | AV       | 119.00         | 200         | Horizontal | Pass    |

## 802.11n20 HIGH CHANNEL



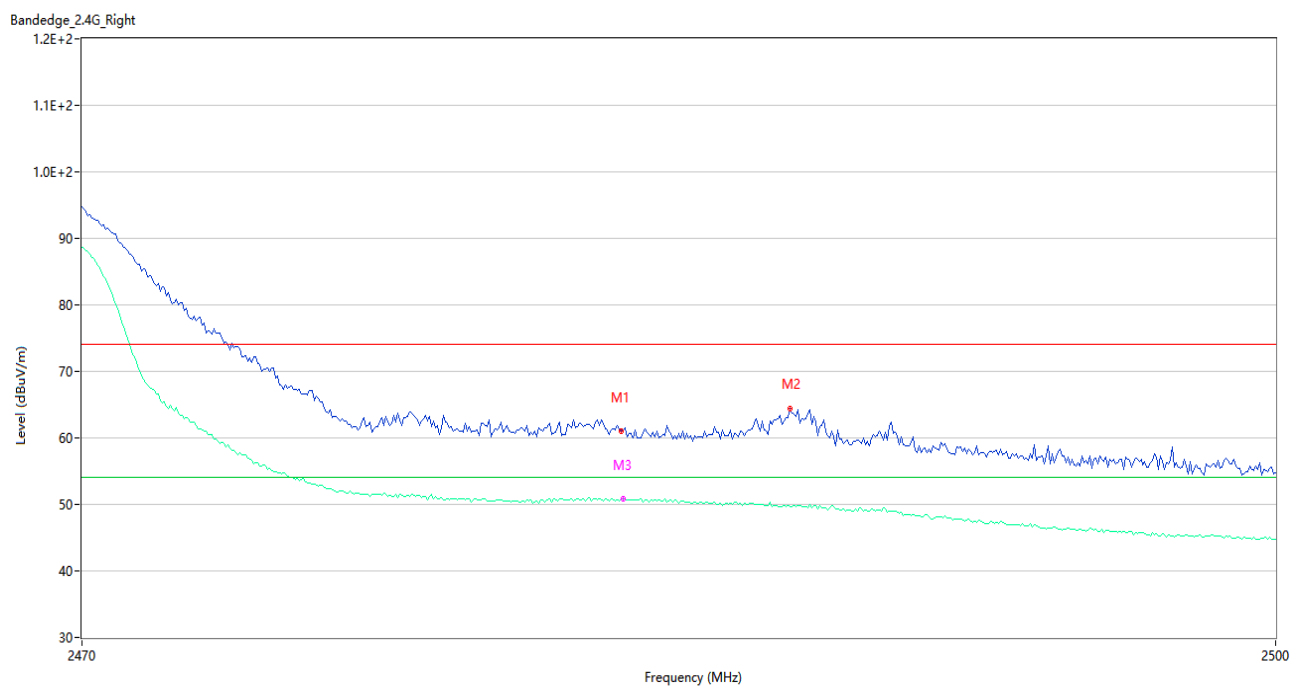
| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna    | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|----------------|-------------|------------|---------|
| 1   | 2483.500        | 63.85            | -0.86       | 74.0           | 10.15       | Peak     | 119.00         | 200         | Horizontal | Pass    |
| 1** | 2483.500        | 50.16            | -0.86       | 54.0           | 3.84        | AV       | 119.00         | 200         | Horizontal | Pass    |
| 2   | 2483.650        | 65.40            | -0.86       | 74.0           | 8.60        | Peak     | 130.00         | 100         | Horizontal | Pass    |
| 2** | 2483.650        | 49.98            | -0.86       | 54.0           | 4.02        | AV       | 130.00         | 100         | Horizontal | Pass    |

## 802.11n40 LOW CHANNEL



| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna    | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|----------------|-------------|------------|---------|
| 1   | 2388.000        | 64.76            | -2.28       | 74.0           | 9.24        | Peak     | 126.00         | 200         | Horizontal | Pass    |
| 1** | 2388.000        | 49.19            | -2.28       | 54.0           | 4.81        | AV       | 126.00         | 200         | Horizontal | Pass    |
| 2   | 2390.000        | 62.16            | -2.35       | 74.0           | 11.84       | Peak     | 120.00         | 100         | Horizontal | Pass    |
| 2** | 2390.000        | 49.77            | -2.35       | 54.0           | 4.23        | AV       | 120.00         | 100         | Horizontal | Pass    |

## 802.11n40 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        | 61.02            | -0.86       | 74.0           | 12.98       | Peak     | 124.00         | 150         | Horizontal | Pass    |
| 1** | 2483.500        | 50.67            | -0.86       | 54.0           | 3.33        | AV       | 124.00         | 150         | Horizontal | Pass    |
| 2   | 2487.750        | 64.46            | -0.80       | 74.0           | 9.54        | Peak     | 130.00         | 200         | Horizontal | Pass    |
| 2** | 2487.750        | 49.63            | -0.80       | 54.0           | 4.37        | AV       | 130.00         | 200         | Horizontal | Pass    |
| 3   | 2483.550        | 61.13            | -0.86       | 74.0           | 12.87       | Peak     | 127.00         | 150         | Horizontal | Pass    |
| 3** | 2483.550        | 50.88            | -0.86       | 54.0           | 3.12        | AV       | 127.00         | 150         | Horizontal | Pass    |

## A.8 Power Spectral Density (PSD)

### Test Data

#### SISO-Antenna 1

##### 802.11b Mode:

| Channel | Spectral power density<br>(dBm/3kHz) | Limit (dBm/3kHz) |
|---------|--------------------------------------|------------------|
| Low     | -13.36                               | 8                |
| Middle  | -13.85                               | 8                |
| High    | -13.81                               | 8                |

##### 802.11g Mode:

| Channel | Spectral power density<br>(dBm/3kHz) | Limit (dBm/3kHz) |
|---------|--------------------------------------|------------------|
| Low     | -12.50                               | 8                |
| Middle  | -12.41                               | 8                |
| High    | -13.76                               | 8                |

##### 802.11n-20 MHz Mode:

| Channel | Spectral power density<br>(dBm/3kHz) | Limit (dBm/3kHz) |
|---------|--------------------------------------|------------------|
| Low     | -13.13                               | 8                |
| Middle  | -12.41                               | 8                |
| High    | -12.89                               | 8                |

##### 802.11n-40 MHz Mode:

| Channel | Spectral power density<br>(dBm/3kHz) | Limit (dBm/3kHz) |
|---------|--------------------------------------|------------------|
| Low     | -15.31                               | 8                |
| Middle  | -15.57                               | 8                |
| High    | -18.23                               | 8                |

SISO-Antenna 2

## 802.11b Mode:

| Channel | Spectral power density<br>(dBm/3kHz) | Limit (dBm/3kHz) |
|---------|--------------------------------------|------------------|
| Low     | -13.24                               | 8                |
| Middle  | -13.42                               | 8                |
| High    | -13.29                               | 8                |

## 802.11g Mode:

| Channel | Spectral power density<br>(dBm/3kHz) | Limit (dBm/3kHz) |
|---------|--------------------------------------|------------------|
| Low     | -12.75                               | 8                |
| Middle  | -12.34                               | 8                |
| High    | -13.69                               | 8                |

## 802.11n-20 MHz Mode:

| Channel | Spectral power density<br>(dBm/3kHz) | Limit (dBm/3kHz) |
|---------|--------------------------------------|------------------|
| Low     | -12.61                               | 8                |
| Middle  | -12.25                               | 8                |
| High    | -14.11                               | 8                |

## 802.11n-40 MHz Mode:

| Channel | Spectral power density<br>(dBm/3kHz) | Limit (dBm/3kHz) |
|---------|--------------------------------------|------------------|
| Low     | -15.21                               | 8                |
| Middle  | -14.38                               | 8                |
| High    | -17.54                               | 8                |



## Test Plots

## SISO-Antenna 1

## 802.11b LOW CHANNEL



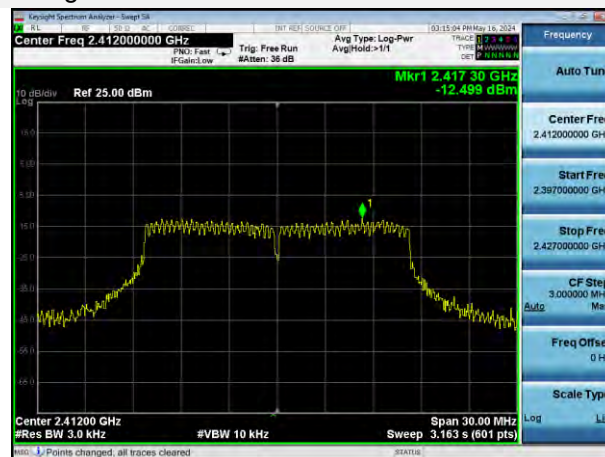
## 802.11b MIDDLE CHANNEL



## 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



## 802.11n-40 MHz LOW CHANNEL



## 802.11n-40 MHz MIDDLE CHANNEL



## 802.11n-40 MHz HIGH CHANNEL





## SISO-Antenna 2

## 802.11b LOW CHANNEL



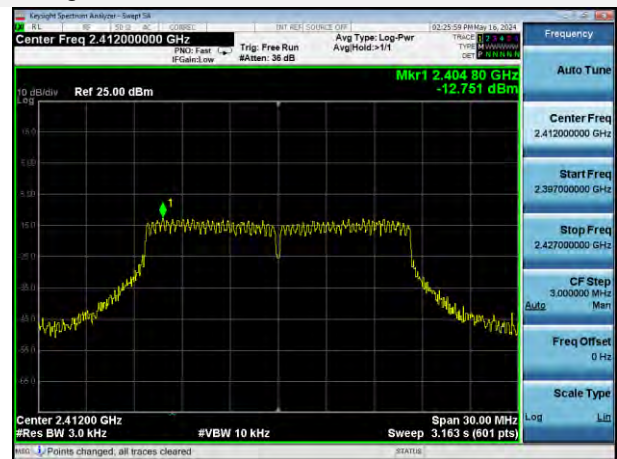
## 802.11b MIDDLE CHANNEL



## 802.11b HIGH CHANNEL



## 802.11g LOW CHANNEL



## 802.11g MIDDLE CHANNEL



## 802.11g HIGH CHANNEL



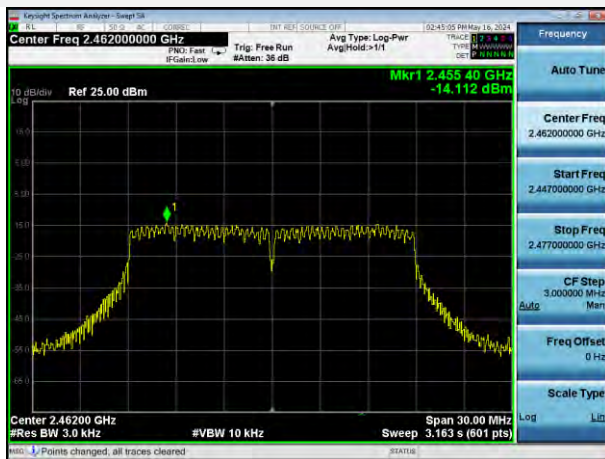
## 802.11n-20 MHz LOW CHANNEL



## 802.11n-20 MHz MIDDLE CHANNEL



## 802.11n-20 MHz HIGH CHANNEL



## 802.11n-40 MHz LOW CHANNEL



## 802.11n-40 MHz MIDDLE CHANNEL



## 802.11n-40 MHz HIGH CHANNEL



## **ANNEX B TEST SETUP PHOTOS**

Please refer the document “BL-SZ2441452-AR.PDF”.

## **ANNEX C EUT EXTERNAL PHOTOS**

Please refer the document “BL-SZ2441452-AW.PDF”.

## **ANNEX D EUT INTERNAL PHOTOS**

Please refer the document “BL-SZ2441452-AI.PDF”.

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--END OF REPORT--