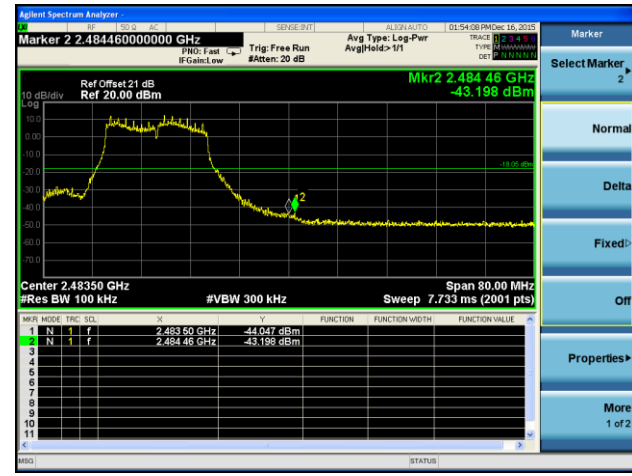
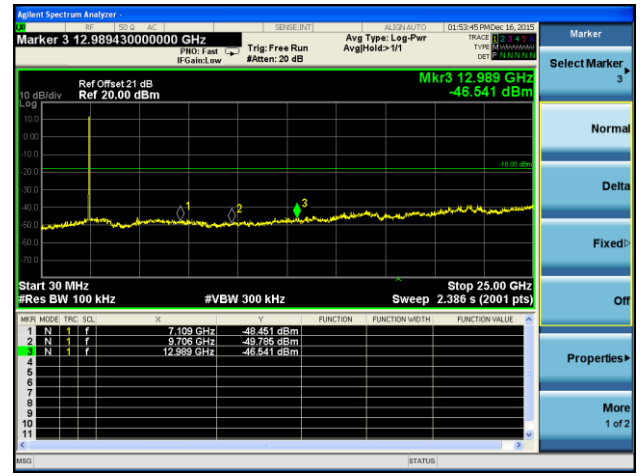


## Channel 11 (2462MHz)

### High Band Edge

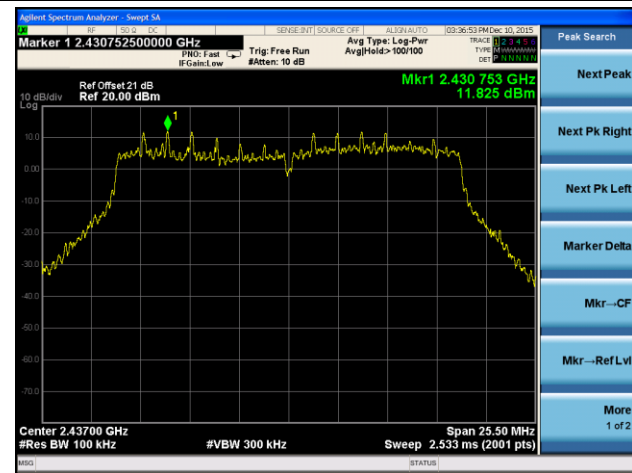


### Spurious Emission



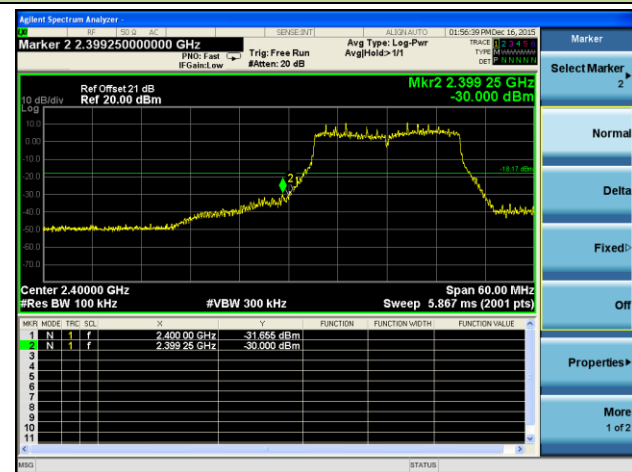
## 802.11n-HT20 Out-of-Band Emissions - Ant 2 / Ant 0 + 1 + 2

### 100kHz PSD Reference Level

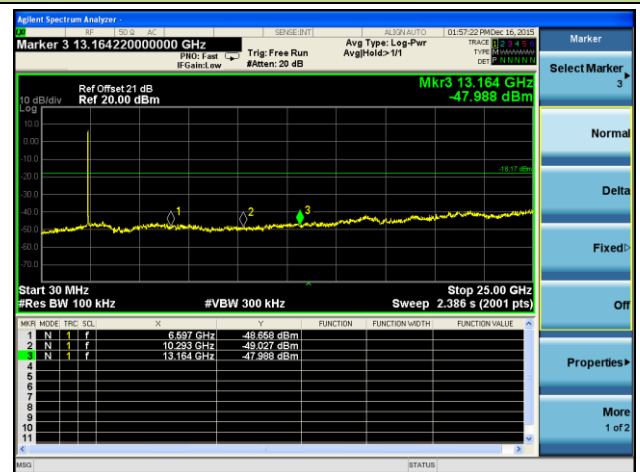


### Channel 01 (2412MHz)

#### Low Band Edge

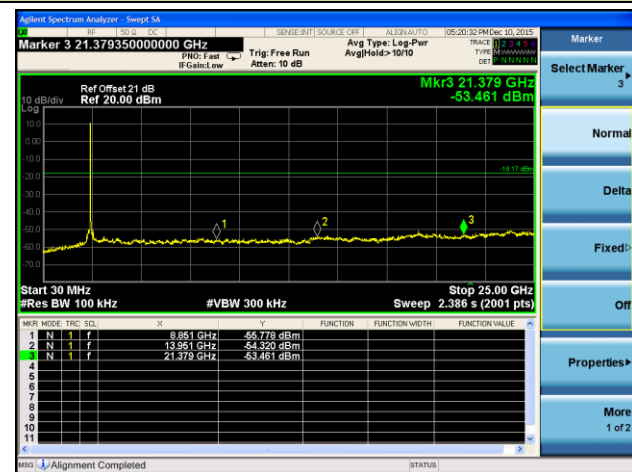


#### Spurious Emission



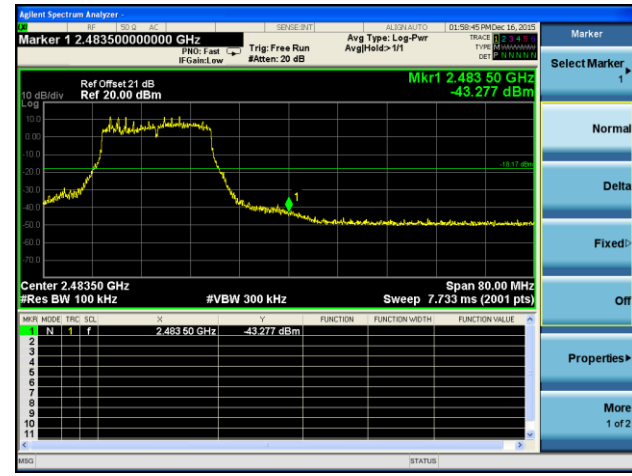
### Channel 06 (2437MHz)

#### Spurious Emission

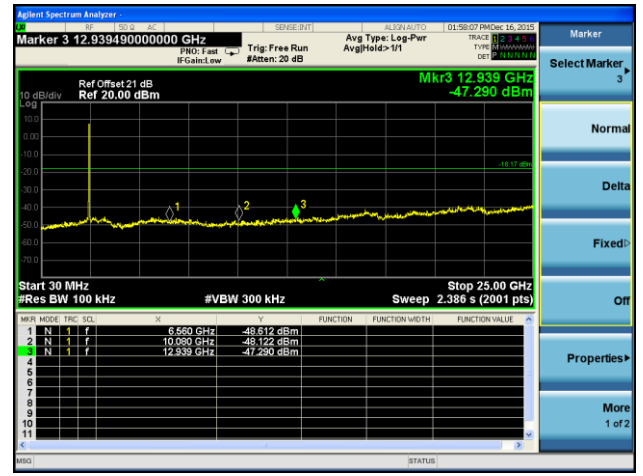


## Channel 11 (2462MHz)

### High Band Edge

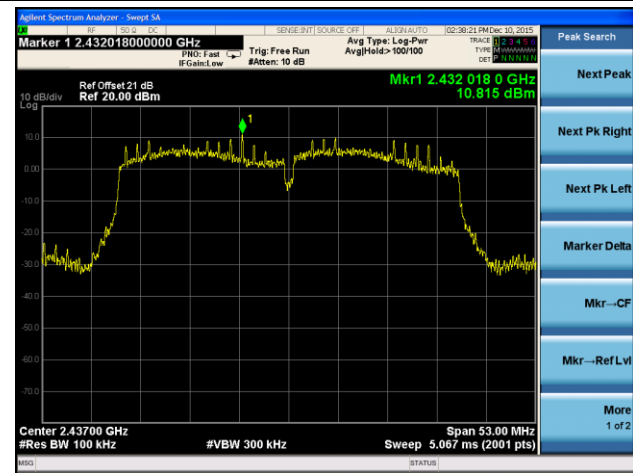


### Spurious Emission



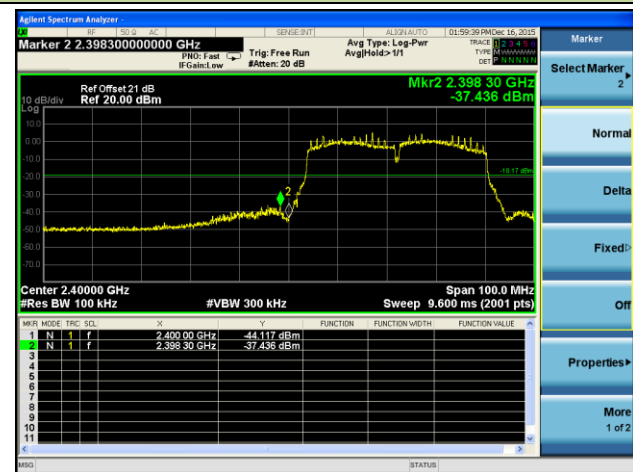
## 802.11n-HT40 Out-of-Band Emissions - Ant 2 / Ant 0 + 1 + 2

### 100kHz PSD Reference Level

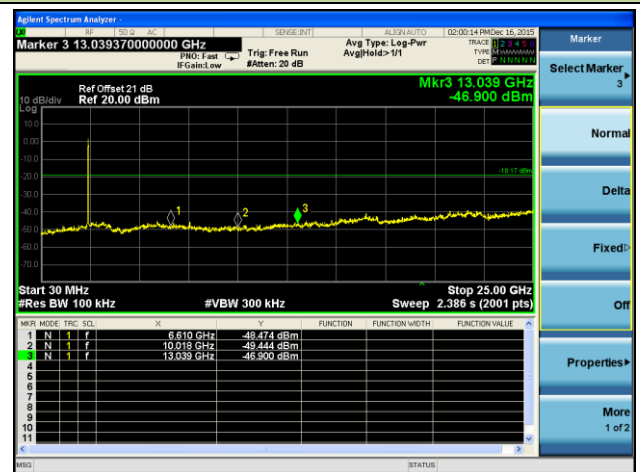


### Channel 03 (2422MHz)

#### Low Band Edge

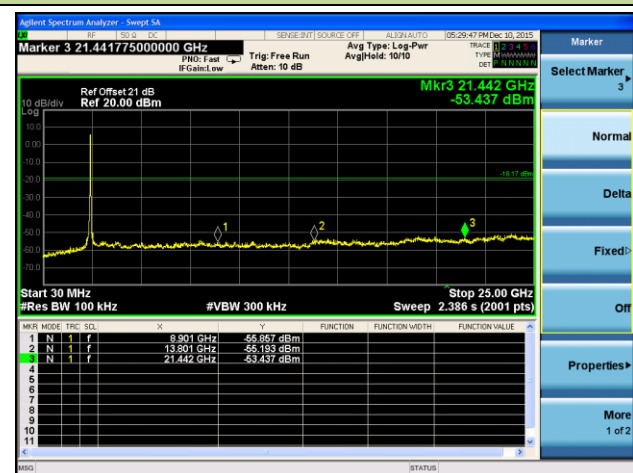


#### Spurious Emission



### Channel 06 (2437MHz)

#### Spurious Emission

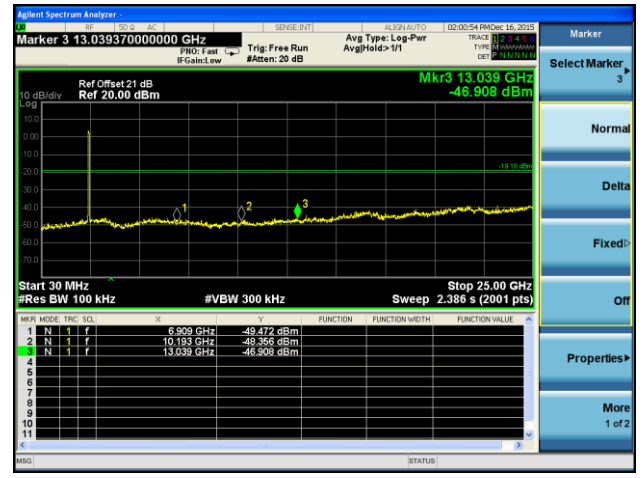


# Channel 09 (2452MHz)

## High Band Edge



## Spurious Emission



## 7.6. Radiated Spurious Emission Measurement

### 7.6.1. Test Limit

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Table per Section 15.209.

| FCC Part 15 Subpart C Paragraph 15.209 |                         |                               |
|----------------------------------------|-------------------------|-------------------------------|
| Frequency<br>[MHz]                     | Field Strength<br>[V/m] | Measured Distance<br>[Meters] |
| 0.009 - 0.490                          | 2400/F (kHz)            | 300                           |
| 0.490 - 1.705                          | 24000/F (kHz)           | 30                            |
| 1.705 - 30                             | 30                      | 30                            |
| 30 - 88                                | 100                     | 3                             |
| 88 - 216                               | 150                     | 3                             |
| 216 - 960                              | 200                     | 3                             |
| Above 960                              | 500                     | 3                             |

### 7.6.2. Test Procedure Used

KDB 558074 D01v03r03 - Section 12.2.3 (quasi-peak measurements)

KDB 558074 D01v03r03 - Section 12.2.4 (peak power measurements)

KDB 558074 D01v03r03 - Section 12.2.5 (average power measurements)

### 7.6.3. Test Setting

#### Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = as specified in Table 1
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple

6.Trace mode = max hold

7.Trace was allowed to stabilize

**Table 1 - RBW as a function of frequency**

| Frequency     | RBW           |
|---------------|---------------|
| 9 ~ 150 kHz   | 200 ~ 300 Hz  |
| 0.15 ~ 30 MHz | 9 ~ 10 kHz    |
| 30 ~ 1000 MHz | 100 ~ 120 kHz |
| > 1000 MHz    | 1 MHz         |

### **Average Field Strength Measurements**

1.Analyzer center frequency was set to the frequency of the radiated spurious emission of interest

2.RBW = 1MHz

3.VBW  $\geq 1/T$

4.De As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). Some instruments require linear display mode in order to accomplish this. Others have a setting for Average-VBW Type, which can be set to “Voltage” regardless of the display mode

5.Detector = Peak

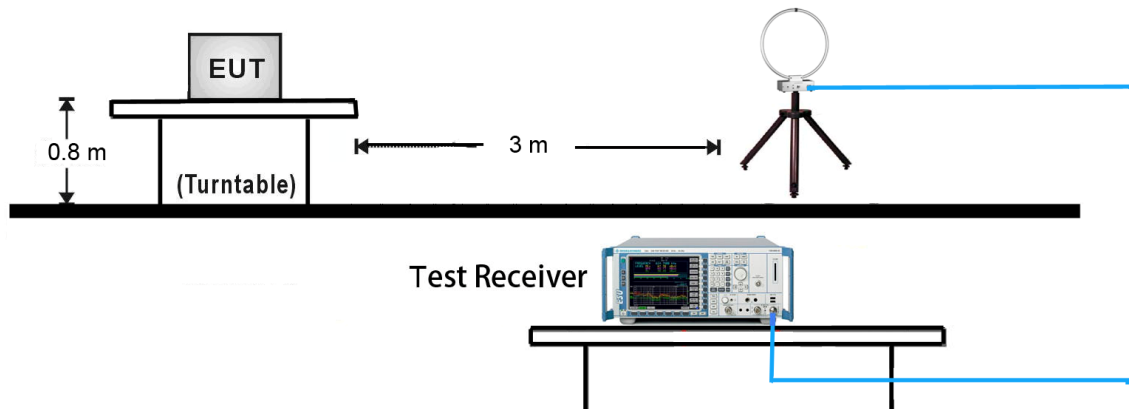
6.Sweep time = auto

7.Trace mode = max hold

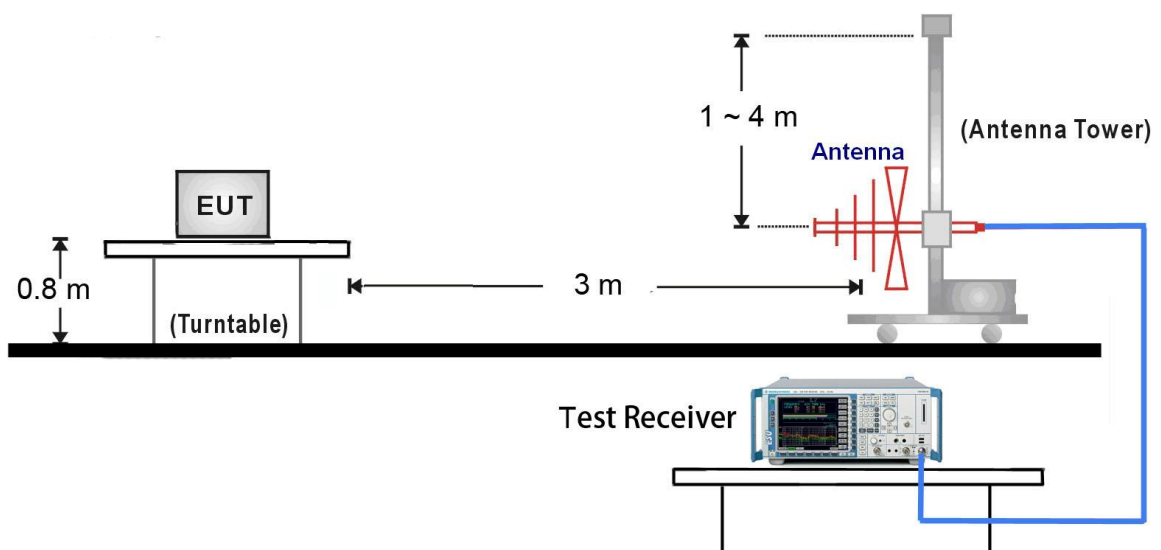
8.Allow max hold to run for at least 50 times (1/duty cycle) traces

#### 7.6.4. Test Setup

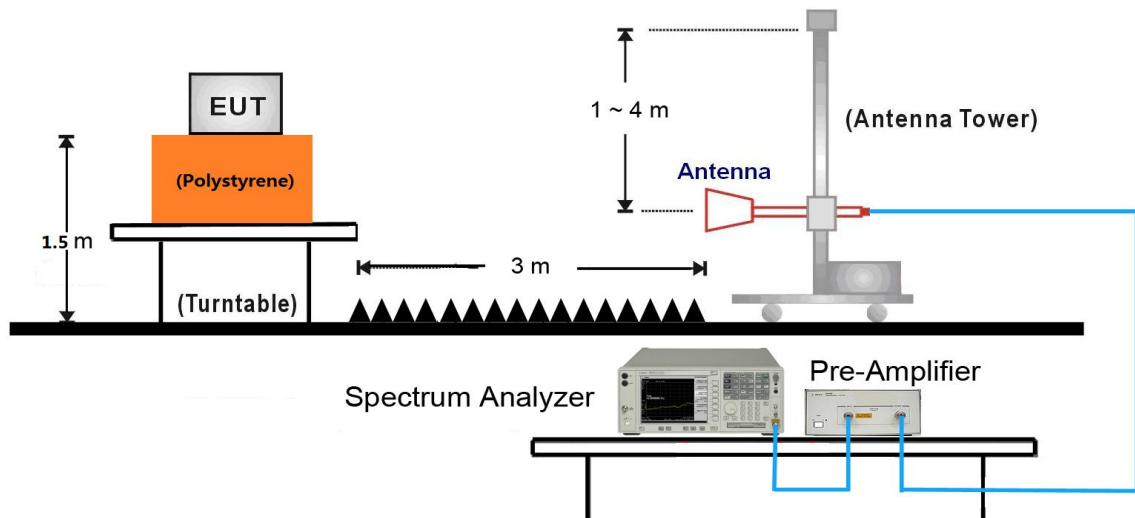
##### 9kHz ~ 30MHz Test Setup:



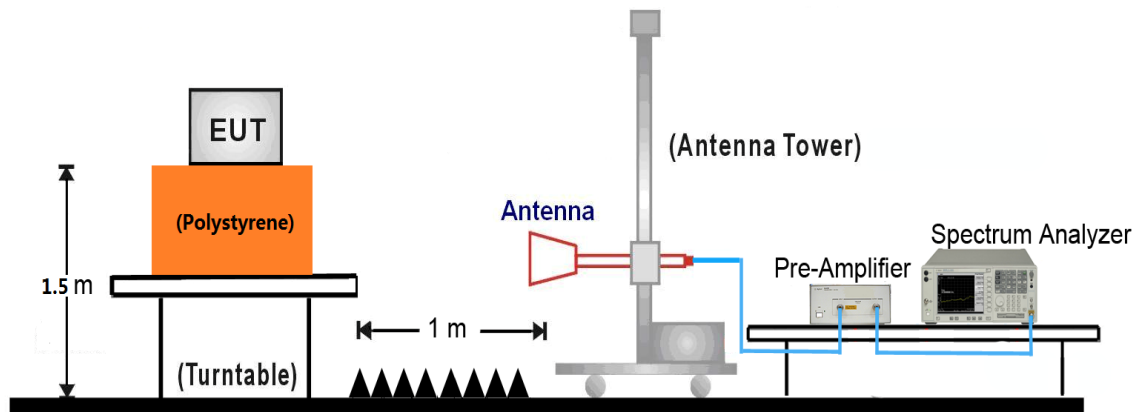
##### 30MHz ~ 1GHz Test Setup:



### 1GHz ~ 18GHz Test Setup:



### 18GHz ~ 25GHz Test Setup:



### 7.6.5. Test Result

|               |                                                                                                                                                                                   |                |           |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------|
| Test Mode:    | 802.11b                                                                                                                                                                           | Test Site:     | AC1       |
| Test Channel: | 01                                                                                                                                                                                | Test Engineer: | Roy Cheng |
| Remark:       | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. |                |           |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 3669.0          | 40.0                 | -0.6        | 39.4                   | 74.0           | -34.6       | Peak     | Horizontal   |
|      | 4825.0          | 39.1                 | 2.7         | 41.8                   | 74.0           | -32.2       | Peak     | Horizontal   |
| *    | 7239.0          | 37.4                 | 7.8         | 45.2                   | 83.1           | -37.9       | Peak     | Horizontal   |
| *    | 9644.5          | 41.2                 | 11.0        | 52.2                   | 83.1           | -30.9       | Peak     | Horizontal   |
|      | 3873.0          | 38.5                 | 0.1         | 38.6                   | 74.0           | -35.4       | Peak     | Vertical     |
|      | 4825.0          | 36.8                 | 2.7         | 39.5                   | 74.0           | -34.5       | Peak     | Vertical     |
| *    | 7230.5          | 41.5                 | 7.8         | 49.3                   | 83.1           | -33.8       | Peak     | Vertical     |
| *    | 9644.5          | 42.7                 | 11.0        | 53.7                   | 83.1           | -29.4       | Peak     | Vertical     |

Note 1: "\*" is not in restricted band, its limit is 30dBc of the fundamental emission level (113.1dBμV/m) or FCC 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|               |                                                                                                                                                                                   |                |           |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------|
| Test Mode:    | 802.11b                                                                                                                                                                           | Test Site:     | AC1       |
| Test Channel: | 06                                                                                                                                                                                | Test Engineer: | Roy Cheng |
| Remark:       | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. |                |           |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 4876.0          | 38.4                 | 2.7         | 41.1                   | 74.0           | -32.9       | Peak     | Horizontal   |
|      | 7307.0          | 39.4                 | 8.0         | 47.4                   | 74.0           | -26.6       | Peak     | Horizontal   |
| *    | 8726.5          | 33.5                 | 9.0         | 42.5                   | 83.3           | -40.8       | Peak     | Horizontal   |
| *    | 9746.5          | 39.5                 | 11.3        | 50.8                   | 83.3           | -32.5       | Peak     | Horizontal   |
|      | 4876.0          | 36.6                 | 2.7         | 39.3                   | 74.0           | -34.7       | Peak     | Vertical     |
|      | 7307.0          | 40.7                 | 8.0         | 48.7                   | 74.0           | -25.3       | Peak     | Vertical     |
| *    | 8777.5          | 33.8                 | 8.9         | 42.7                   | 83.3           | -40.6       | Peak     | Vertical     |
| *    | 9746.5          | 42.8                 | 11.3        | 54.1                   | 83.3           | -29.2       | Peak     | Vertical     |

Note 1: “\*” is not in restricted band, its limit is 30dBc of the fundamental emission level (113.3dBμV/m) or FCC 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|               |                                                                                                                                                                                   |                |           |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------|
| Test Mode:    | 802.11b                                                                                                                                                                           | Test Site:     | AC1       |
| Test Channel: | 11                                                                                                                                                                                | Test Engineer: | Roy Cheng |
| Remark:       | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. |                |           |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 4927.0          | 36.9                 | 2.8         | 39.7                   | 74.0           | -34.3       | Peak     | Horizontal   |
|      | 7383.5          | 40.7                 | 7.9         | 48.6                   | 74.0           | -25.4       | Peak     | Horizontal   |
| *    | 8956.0          | 33.8                 | 9.0         | 42.8                   | 83.7           | -40.9       | Peak     | Horizontal   |
| *    | 9848.5          | 37.9                 | 11.6        | 49.5                   | 83.7           | -34.2       | Peak     | Horizontal   |
|      | 4927.0          | 36.8                 | 2.8         | 39.6                   | 74.0           | -34.4       | Peak     | Vertical     |
|      | 7383.5          | 42.2                 | 7.9         | 50.1                   | 74.0           | -23.9       | Peak     | Vertical     |
| *    | 8735.0          | 33.8                 | 8.9         | 42.7                   | 83.7           | -41.0       | Peak     | Vertical     |
| *    | 9848.5          | 40.1                 | 11.6        | 51.7                   | 83.7           | -32.0       | Peak     | Vertical     |

Note 1: “\*” is not in restricted band, its limit is 30dBc of the fundamental emission level (113.7dBμV/m) or FCC 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|               |                                                                                                                                                                                   |                |           |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------|
| Test Mode:    | 802.11g                                                                                                                                                                           | Test Site:     | AC1       |
| Test Channel: | 01                                                                                                                                                                                | Test Engineer: | Roy Cheng |
| Remark:       | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. |                |           |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 3669.0          | 39.4                 | -0.6        | 38.8                   | 74.0           | -35.2       | Peak     | Horizontal   |
|      | 4825.0          | 35.1                 | 2.7         | 37.8                   | 74.0           | -36.2       | Peak     | Horizontal   |
| *    | 7239.0          | 39.3                 | 7.8         | 47.1                   | 86.6           | -39.5       | Peak     | Horizontal   |
| *    | 9644.5          | 36.7                 | 11.0        | 47.7                   | 86.6           | -38.9       | Peak     | Horizontal   |
|      | 3873.0          | 38.9                 | 0.1         | 39.0                   | 74.0           | -35.0       | Peak     | Vertical     |
|      | 4816.5          | 35.1                 | 2.7         | 37.8                   | 74.0           | -36.2       | Peak     | Vertical     |
| *    | 7239.0          | 40.1                 | 7.8         | 47.9                   | 86.6           | -38.7       | Peak     | Vertical     |
| *    | 9644.5          | 36.0                 | 11.0        | 47.0                   | 86.6           | -39.6       | Peak     | Vertical     |

Note 1: “\*” is not in restricted band, its limit is 30dBc of the fundamental emission level (116.6dBμV/m) or FCC 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|               |                                                                                                                                                                                   |                |           |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------|
| Test Mode:    | 802.11g                                                                                                                                                                           | Test Site:     | AC1       |
| Test Channel: | 06                                                                                                                                                                                | Test Engineer: | Roy Cheng |
| Remark:       | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. |                |           |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 4876.0          | 36.2                 | 2.7         | 38.9                   | 74.0           | -35.1       | Peak     | Horizontal   |
|      | 7315.5          | 40.2                 | 8.0         | 48.2                   | 74.0           | -25.8       | Peak     | Horizontal   |
| *    | 8820.0          | 32.8                 | 9.0         | 41.8                   | 86.7           | -44.9       | Peak     | Horizontal   |
| *    | 9755.0          | 35.6                 | 11.4        | 47.0                   | 86.7           | -39.7       | Peak     | Horizontal   |
|      | 4867.5          | 35.2                 | 2.7         | 37.9                   | 74.0           | -36.1       | Peak     | Vertical     |
|      | 7324.0          | 42.5                 | 8.0         | 50.5                   | 74.0           | -23.5       | Peak     | Vertical     |
| *    | 8896.5          | 33.4                 | 9.2         | 42.6                   | 86.7           | -44.1       | Peak     | Vertical     |
| *    | 9755.0          | 36.0                 | 11.4        | 47.4                   | 86.7           | -39.3       | Peak     | Vertical     |

Note 1: “\*” is not in restricted band, its limit is 30dBc of the fundamental emission level (116.7dBμV/m) or FCC 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|               |                                                                                                                                                                                   |                |           |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------|
| Test Mode:    | 802.11g                                                                                                                                                                           | Test Site:     | AC1       |
| Test Channel: | 11                                                                                                                                                                                | Test Engineer: | Roy Cheng |
| Remark:       | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. |                |           |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 4927.0          | 36.4                 | 2.8         | 39.2                   | 74.0           | -34.8       | Peak     | Horizontal   |
|      | 7383.5          | 43.0                 | 7.9         | 50.9                   | 74.0           | -23.1       | Peak     | Horizontal   |
| *    | 8777.5          | 33.5                 | 8.9         | 42.4                   | 86.9           | -44.5       | Peak     | Horizontal   |
| *    | 9848.5          | 34.6                 | 11.6        | 46.2                   | 86.9           | -40.7       | Peak     | Horizontal   |
|      | 4927.0          | 35.8                 | 2.8         | 38.6                   | 74.0           | -35.4       | Peak     | Vertical     |
|      | 7375.0          | 43.9                 | 7.9         | 51.8                   | 74.0           | -22.2       | Peak     | Vertical     |
| *    | 8930.5          | 33.7                 | 9.0         | 42.7                   | 86.9           | -44.2       | Peak     | Vertical     |
| *    | 9857.0          | 36.1                 | 11.6        | 47.7                   | 86.9           | -39.2       | Peak     | Vertical     |

Note 1: “\*” is not in restricted band, its limit is 30dBc of the fundamental emission level (116.9dBμV/m) or FCC 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|               |                                                                                                                                                                                   |                |           |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------|
| Test Mode:    | 802.11n-HT20                                                                                                                                                                      | Test Site:     | AC1       |
| Test Channel: | 01                                                                                                                                                                                | Test Engineer: | Roy Cheng |
| Remark:       | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. |                |           |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 3669.0          | 40.3                 | -0.6        | 39.7                   | 74.0           | -34.3       | Peak     | Horizontal   |
|      | 4799.5          | 35.0                 | 2.7         | 37.7                   | 74.0           | -36.3       | Peak     | Horizontal   |
| *    | 7239.0          | 37.7                 | 7.8         | 45.5                   | 85.2           | -39.7       | Peak     | Horizontal   |
| *    | 9644.5          | 35.9                 | 11.0        | 46.9                   | 85.2           | -38.3       | Peak     | Horizontal   |
|      | 3873.0          | 38.4                 | 0.1         | 38.5                   | 74.0           | -35.5       | Peak     | Vertical     |
|      | 4808.0          | 35.0                 | 2.7         | 37.7                   | 74.0           | -36.3       | Peak     | Vertical     |
| *    | 7239.0          | 37.0                 | 7.8         | 44.8                   | 85.2           | -40.4       | Peak     | Vertical     |
| *    | 9644.5          | 34.8                 | 11.0        | 45.8                   | 85.2           | -39.4       | Peak     | Vertical     |

Note 1: “\*” is not in restricted band, its limit is 30dBc of the fundamental emission level (115.2dBμV/m) or FCC 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|               |                                                                                                                                                                                   |                |           |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------|
| Test Mode:    | 802.11n-HT20                                                                                                                                                                      | Test Site:     | AC1       |
| Test Channel: | 06                                                                                                                                                                                | Test Engineer: | Roy Cheng |
| Remark:       | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. |                |           |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 4876.0          | 35.6                 | 2.7         | 38.3                   | 74.0           | -35.7       | Peak     | Horizontal   |
|      | 7324.0          | 39.7                 | 8.0         | 47.7                   | 74.0           | -26.3       | Peak     | Horizontal   |
| *    | 8675.5          | 34.3                 | 8.9         | 43.2                   | 85.8           | -42.6       | Peak     | Horizontal   |
| *    | 9738.0          | 35.0                 | 11.2        | 46.2                   | 85.8           | -39.6       | Peak     | Horizontal   |
|      | 4842.0          | 35.1                 | 2.7         | 37.8                   | 74.0           | -36.2       | Peak     | Vertical     |
|      | 7307.0          | 39.3                 | 8.0         | 47.3                   | 74.0           | -26.7       | Peak     | Vertical     |
| *    | 8565.0          | 34.2                 | 8.7         | 42.9                   | 85.8           | -42.9       | Peak     | Vertical     |
| *    | 9746.5          | 34.3                 | 11.3        | 45.6                   | 85.8           | -40.2       | Peak     | Vertical     |

Note 1: “\*” is not in restricted band, its limit is 30dBc of the fundamental emission level (115.8dBμV/m) or FCC 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|               |                                                                                                                                                                                   |                |           |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------|
| Test Mode:    | 802.11n-HT20                                                                                                                                                                      | Test Site:     | AC1       |
| Test Channel: | 11                                                                                                                                                                                | Test Engineer: | Roy Cheng |
| Remark:       | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. |                |           |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 4927.0          | 36.1                 | 2.8         | 38.9                   | 74.0           | -35.1       | Peak     | Horizontal   |
|      | 7392.0          | 41.3                 | 7.9         | 49.2                   | 74.0           | -24.8       | Peak     | Horizontal   |
| *    | 8828.5          | 33.3                 | 9.1         | 42.4                   | 86.7           | -44.3       | Peak     | Horizontal   |
| *    | 9848.5          | 35.2                 | 11.6        | 46.8                   | 86.7           | -39.9       | Peak     | Horizontal   |
|      | 4927.0          | 35.1                 | 2.8         | 37.9                   | 74.0           | -36.1       | Peak     | Vertical     |
|      | 7392.0          | 40.5                 | 7.9         | 48.4                   | 74.0           | -25.6       | Peak     | Vertical     |
| *    | 8718.0          | 33.7                 | 9.0         | 42.7                   | 86.7           | -44.0       | Peak     | Vertical     |
| *    | 9874.0          | 37.6                 | 11.6        | 49.2                   | 86.7           | -37.5       | Peak     | Vertical     |

Note 1: “\*” is not in restricted band, its limit is 30dBc of the fundamental emission level (116.7dBμV/m) or FCC 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|               |                                                                                                                                                                                   |                |           |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------|
| Test Mode:    | 802.11n-HT40                                                                                                                                                                      | Test Site:     | AC1       |
| Test Channel: | 03                                                                                                                                                                                | Test Engineer: | Roy Cheng |
| Remark:       | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. |                |           |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 4816.5          | 36.1                 | 2.7         | 38.8                   | 74.0           | -35.2       | Peak     | Horizontal   |
|      | 7256.0          | 38.3                 | 7.9         | 46.2                   | 74.0           | -27.8       | Peak     | Horizontal   |
| *    | 8786.0          | 33.8                 | 8.9         | 42.7                   | 80.2           | -37.5       | Peak     | Horizontal   |
| *    | 9687.0          | 34.9                 | 10.9        | 45.8                   | 80.2           | -34.4       | Peak     | Horizontal   |
|      | 3873.0          | 38.1                 | 0.1         | 38.2                   | 74.0           | -35.8       | Peak     | Vertical     |
|      | 7264.5          | 40.2                 | 7.9         | 48.1                   | 74.0           | -25.9       | Peak     | Vertical     |
| *    | 8820.0          | 34.3                 | 9.0         | 43.3                   | 80.2           | -36.9       | Peak     | Vertical     |
| *    | 9687.0          | 36.0                 | 10.9        | 46.9                   | 80.2           | -33.3       | Peak     | Vertical     |

Note 1: “\*” is not in restricted band, its limit is 30dBc of the fundamental emission level (110.2dBμV/m) or FCC 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|               |                                                                                                                                                                                   |                |           |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------|
| Test Mode:    | 802.11n-HT40                                                                                                                                                                      | Test Site:     | AC1       |
| Test Channel: | 06                                                                                                                                                                                | Test Engineer: | Roy Cheng |
| Remark:       | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. |                |           |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 3669.0          | 40.3                 | -0.6        | 39.7                   | 74.0           | -34.3       | Peak     | Horizontal   |
|      | 7298.5          | 40.4                 | 8.0         | 48.4                   | 74.0           | -25.6       | Peak     | Horizontal   |
| *    | 8658.5          | 33.8                 | 8.8         | 42.6                   | 91.5           | -48.9       | Peak     | Horizontal   |
| *    | 9763.5          | 34.8                 | 11.4        | 46.2                   | 91.5           | -45.3       | Peak     | Horizontal   |
|      | 3873.0          | 37.8                 | 0.1         | 37.9                   | 74.0           | -36.1       | Peak     | Vertical     |
|      | 7324.0          | 40.9                 | 8.0         | 48.9                   | 74.0           | -25.1       | Peak     | Vertical     |
| *    | 8888.0          | 33.2                 | 9.2         | 42.4                   | 91.5           | -49.1       | Peak     | Vertical     |
| *    | 9746.5          | 35.2                 | 11.3        | 46.5                   | 91.5           | -45.0       | Peak     | Vertical     |

Note 1: “\*” is not in restricted band, its limit is 30dBc of the fundamental emission level (121.5dBμV/m) or FCC 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|               |                                                                                                                                                                                   |                |           |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------|
| Test Mode:    | 802.11n-HT40                                                                                                                                                                      | Test Site:     | AC1       |
| Test Channel: | 09                                                                                                                                                                                | Test Engineer: | Roy Cheng |
| Remark:       | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. |                |           |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 4910.0          | 36.9                 | 2.7         | 39.6                   | 74.0           | -34.4       | Peak     | Horizontal   |
|      | 7366.5          | 41.0                 | 7.9         | 48.9                   | 74.0           | -25.1       | Peak     | Horizontal   |
| *    | 8956.0          | 34.6                 | 9.0         | 43.6                   | 83.1           | -39.5       | Peak     | Horizontal   |
| *    | 9823.0          | 34.2                 | 11.6        | 45.8                   | 83.1           | -37.3       | Peak     | Horizontal   |
|      | 4910.0          | 35.3                 | 2.7         | 38.0                   | 74.0           | -36.0       | Peak     | Vertical     |
|      | 7341.0          | 42.5                 | 8.0         | 50.5                   | 74.0           | -23.5       | Peak     | Vertical     |
| *    | 8675.5          | 34.3                 | 8.9         | 43.2                   | 83.1           | -39.9       | Peak     | Vertical     |
| *    | 9806.0          | 34.4                 | 11.5        | 45.9                   | 83.1           | -37.2       | Peak     | Vertical     |

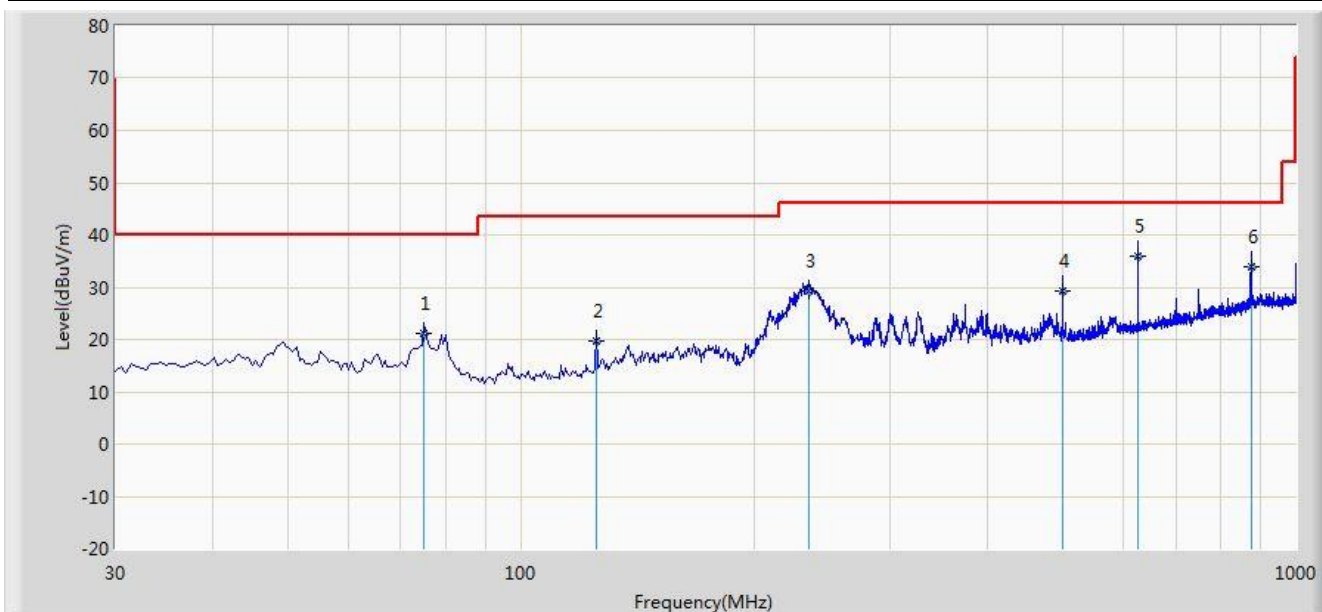
Note 1: “\*” is not in restricted band, its limit is 30dBc of the fundamental emission level (113.1dBμV/m) or FCC 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

### The worst case of Radiated Emission below 1GHz:

|                                                                              |                          |
|------------------------------------------------------------------------------|--------------------------|
| Site: AC 1                                                                   | Time: 2015/12/16 - 16:55 |
| Limit: FCC_Part15.209_RE(3m)                                                 | Engineer: Milo Li        |
| Probe: VULB9162_0.03-8GHz                                                    | Polarity: Horizontal     |
| EUT: Gateway                                                                 | Power: AC 120V/60Hz      |
| <b>Worst Mode:</b> Transmit by 802.11n-HT20 at channel 2412MHz Ant 0 + 1 + 2 |                          |

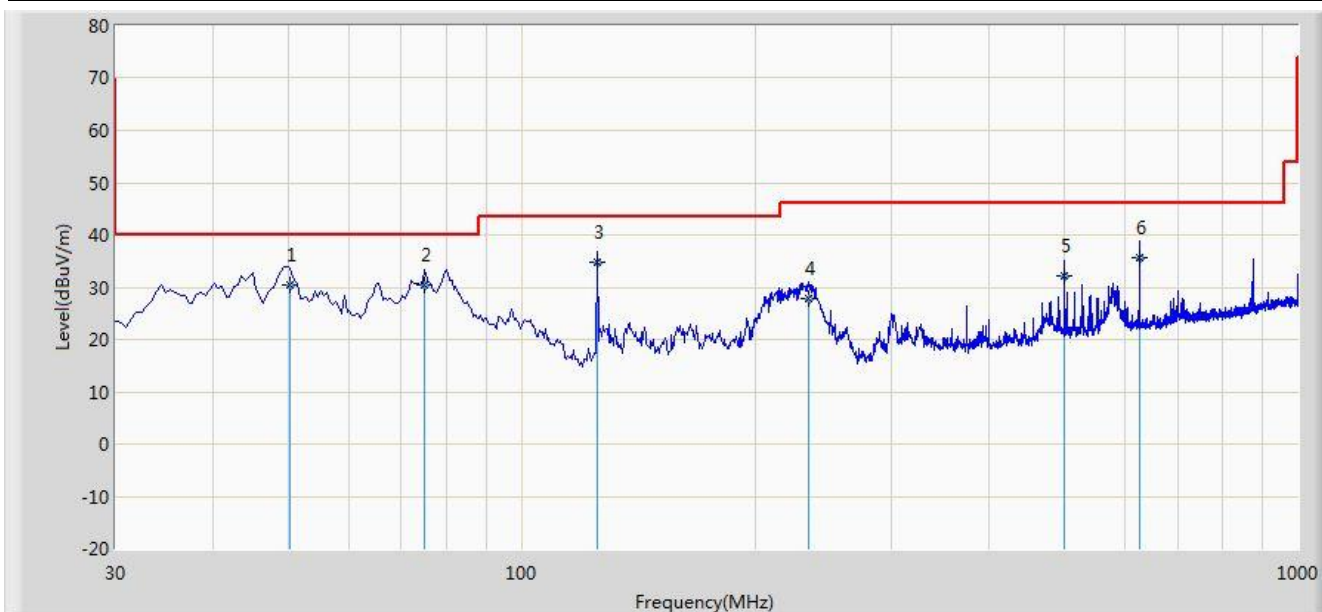


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      |      | 75.105          | 21.138                 | 10.404               | -18.862         | 40.000         | 10.734      | QP   |
| 2  |      |      | 125.060         | 19.709                 | 6.259                | -23.791         | 43.500         | 13.450      | QP   |
| 3  |      |      | 235.155         | 29.416                 | 16.776               | -16.584         | 46.000         | 12.641      | QP   |
| 4  |      |      | 499.965         | 29.287                 | 10.805               | -16.713         | 46.000         | 18.482      | QP   |
| 5  |      | *    | 625.095         | 35.882                 | 14.856               | -10.118         | 46.000         | 21.026      | QP   |
| 6  |      |      | 874.870         | 33.893                 | 9.898                | -12.107         | 46.000         | 23.995      | QP   |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

|                                                                              |                          |
|------------------------------------------------------------------------------|--------------------------|
| Site: AC 1                                                                   | Time: 2015/12/16 - 17:49 |
| Limit: FCC_Part15.209_RE(3m)                                                 | Engineer: Milo Li        |
| Probe: VULB9162_0.03-8GHz                                                    | Polarity: Vertical       |
| EUT: Gateway                                                                 | Power: AC 120V/60Hz      |
| <b>Worst Mode:</b> Transmit by 802.11n-HT20 at channel 2412MHz Ant 0 + 1 + 2 |                          |

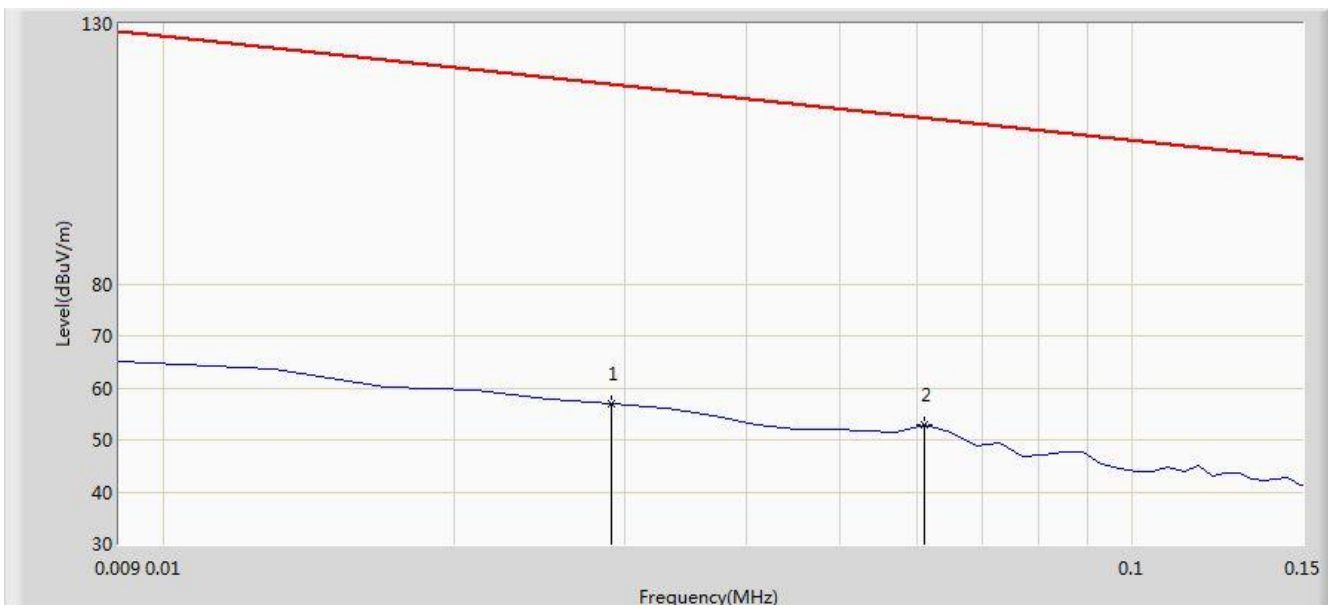


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      |      | 50.370          | 30.573                 | 16.546               | -9.427          | 40.000         | 14.027      | QP   |
| 2  |      |      | 75.105          | 30.405                 | 19.671               | -9.595          | 40.000         | 10.734      | QP   |
| 3  |      | *    | 125.060         | 34.904                 | 21.454               | -8.596          | 43.500         | 13.450      | QP   |
| 4  |      |      | 234.185         | 27.941                 | 15.325               | -18.059         | 46.000         | 12.616      | QP   |
| 5  |      |      | 499.965         | 32.208                 | 13.726               | -13.792         | 46.000         | 18.482      | QP   |
| 6  |      |      | 625.095         | 35.712                 | 14.686               | -10.288         | 46.000         | 21.026      | QP   |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

|                                                                            |                          |
|----------------------------------------------------------------------------|--------------------------|
| Site: AC1                                                                  | Time: 2015/12/15 - 09:44 |
| Limit: FCC_Part15.209_RE(3m)                                               | Engineer: Roy Cheng      |
| Probe: FMZB1519_0.009-30MHz                                                | Polarity: Face on        |
| EUT: Gateway                                                               | Power: AC 120V/60Hz      |
| <b>Note: There is the ambient noise within frequency range 9kHz~30MHz.</b> |                          |

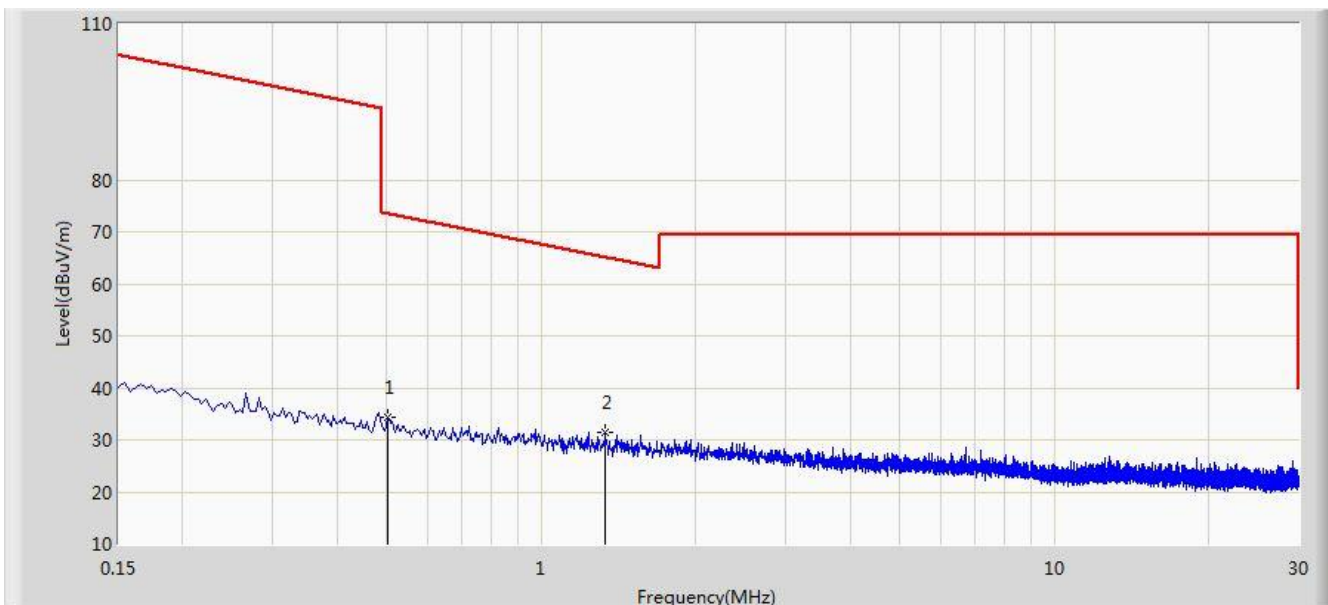


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      |      | 0.029           | 56.893                 | 35.844               | -61.463         | 118.356        | 21.049      | PK   |
| 2  |      | *    | 0.061           | 52.853                 | 32.542               | -59.045         | 111.898        | 20.311      | PK   |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

|                                                                            |                          |
|----------------------------------------------------------------------------|--------------------------|
| Site: AC1                                                                  | Time: 2015/12/15 - 09:44 |
| Limit: FCC_Part15.209_RE(3m)                                               | Engineer: Roy Cheng      |
| Probe: FMZB1519_0.009-30MHz                                                | Polarity: Face on        |
| EUT: Gateway                                                               | Power: AC 120V/60Hz      |
| <b>Note: There is the ambient noise within frequency range 9kHz~30MHz.</b> |                          |



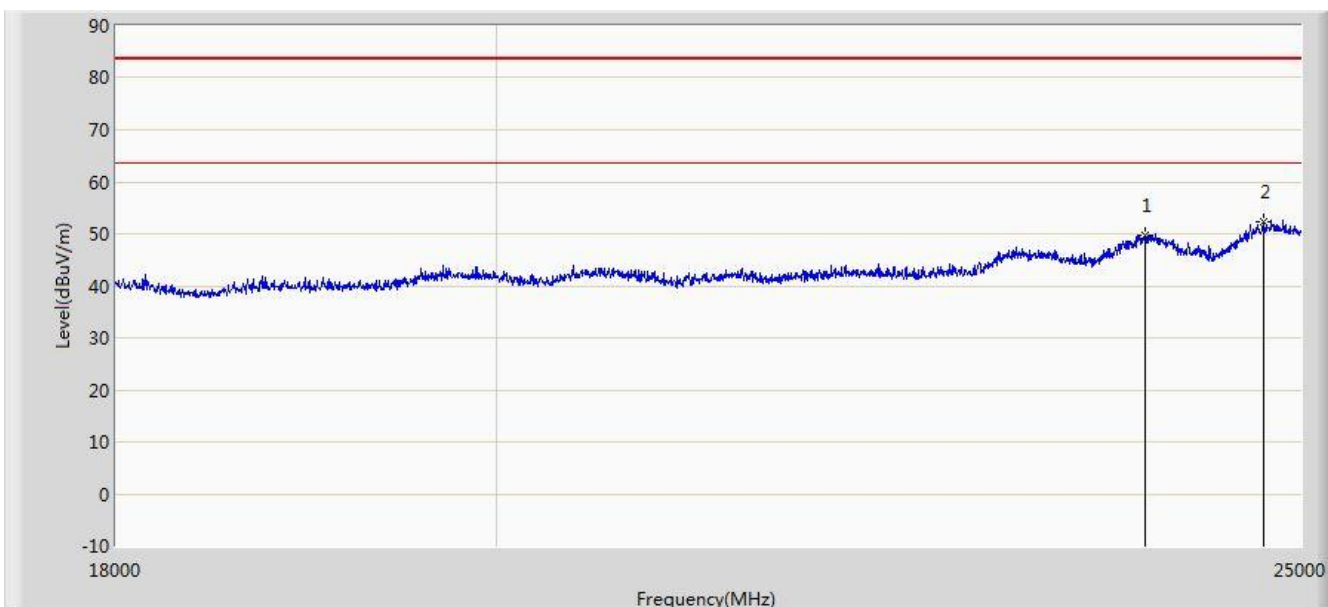
| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      |      | 0.502           | 34.370                 | 13.947               | -39.220         | 73.590         | 20.423      | QP   |
| 2  |      | *    | 1.334           | 31.595                 | 11.104               | -33.530         | 65.125         | 20.491      | QP   |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Limit@3m =  $20 \cdot \log(30 \mu\text{V/m}) + 20 \cdot \log(30\text{m}/3\text{m}) = 49.5 \text{ dB}\mu\text{V/m}$  (Average detector), and  $69.5 \text{ dB}\mu\text{V/m}$  (Peak detector).

|                                                                             |                          |
|-----------------------------------------------------------------------------|--------------------------|
| Site: AC1                                                                   | Time: 2015/12/15 - 10:21 |
| Limit: FCC_Part15.209_RE(1m)                                                | Engineer: Roy Cheng      |
| Probe: BBHA9170_18-40GHz                                                    | Polarity: Horizontal     |
| EUT: Gateway                                                                | Power: AC 120V/60Hz      |
| <b>Note: There is the ambient noise within frequency range 18GHz~25GHz.</b> |                          |

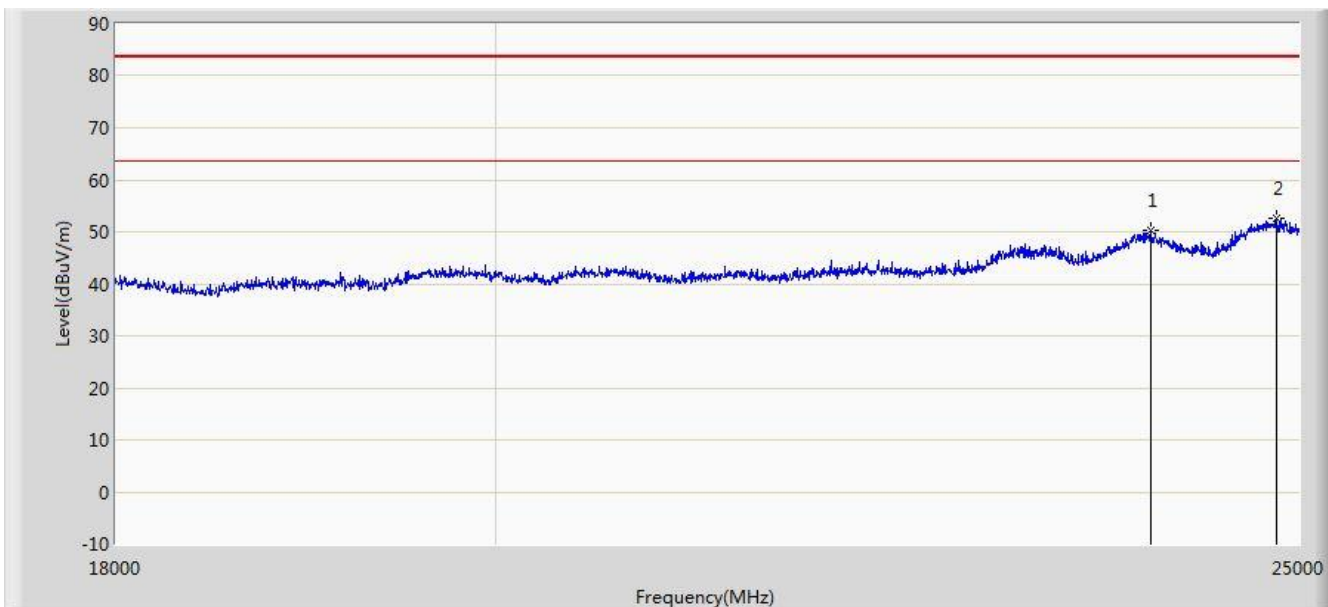


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      |      | 23943.000       | 49.776                 | 35.866               | -33.724         | 83.500         | 13.910      | PK   |
| 2  |      | *    | 24741.000       | 52.375                 | 37.681               | -31.125         | 83.500         | 14.694      | PK   |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|                                                                             |                          |
|-----------------------------------------------------------------------------|--------------------------|
| Site: AC1                                                                   | Time: 2015/12/15 - 10:21 |
| Limit: FCC_Part15.209_RE(1m)                                                | Engineer: Roy Cheng      |
| Probe: BBHA9170_18-40GHz                                                    | Polarity: Vertical       |
| EUT: Gateway                                                                | Power: AC 120V/60Hz      |
| <b>Note: There is the ambient noise within frequency range 18GHz~25GHz.</b> |                          |



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      |      | 23999.000       | 50.379                 | 36.435               | -33.121         | 83.500         | 13.944      | PK   |
| 2  |      | *    | 24846.000       | 52.503                 | 37.735               | -30.997         | 83.500         | 14.768      | PK   |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

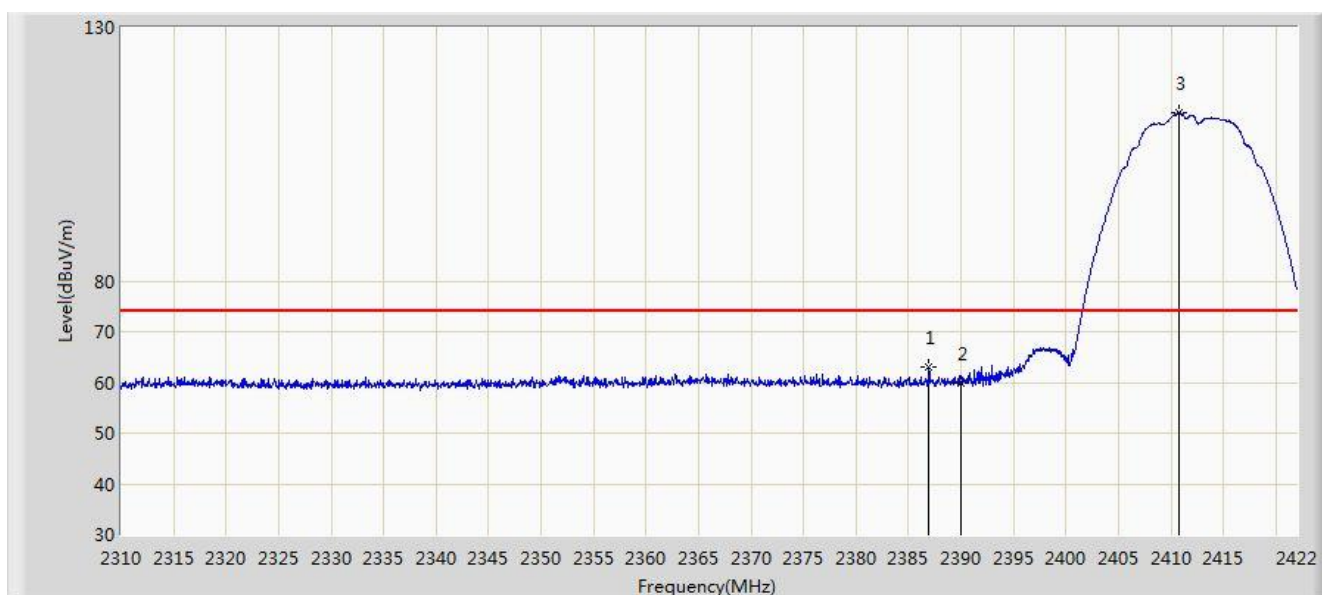
Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Limit@1m = 20\*Log(500uV/m) + 20\*Log(3m/1m) = 63.5dBμV/m (Average detector), and 83.5dBμV/m (Peak detector).

## 7.7. Radiated Restricted Band Edge Measurement

### 7.7.1. Test Result

|                                                   |                          |
|---------------------------------------------------|--------------------------|
| Site: AC1                                         | Time: 2015/12/07 - 17:57 |
| Limit: FCC_Part15.209_RE(3m)                      | Engineer: Milo Li        |
| Probe: BBHA9120D_1-18GHz                          | Polarity: Horizontal     |
| EUT: Gateway                                      | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11b at Channel 2412MHz |                          |

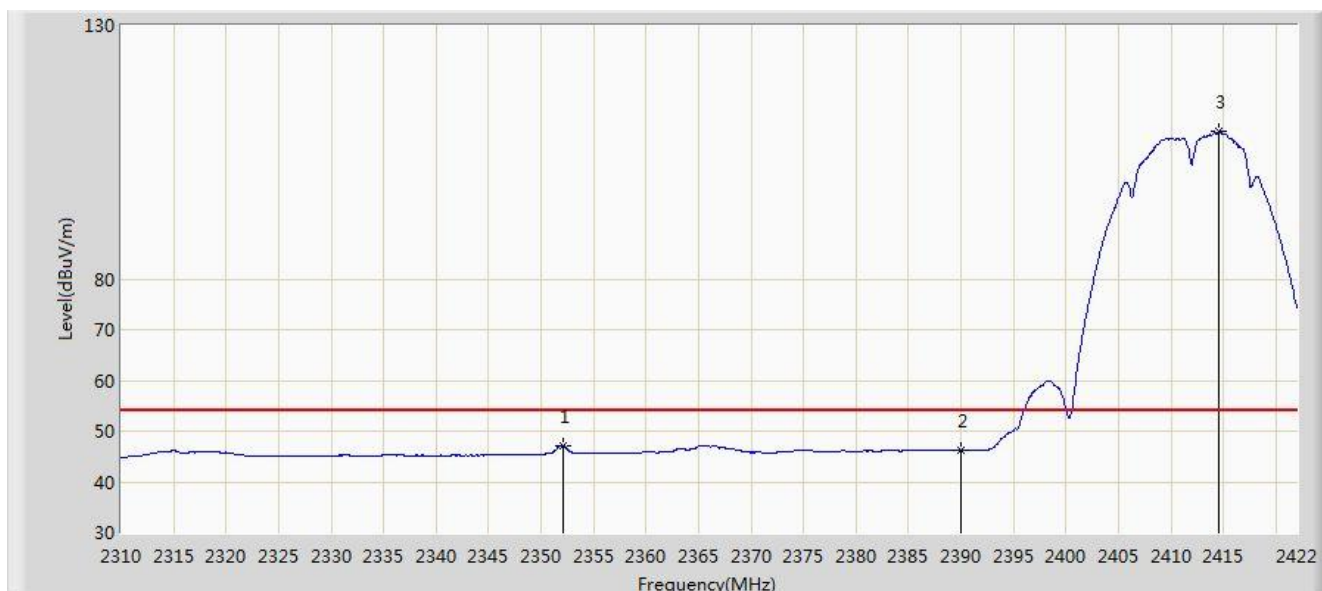


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      |      | 2386.944        | 62.949                 | 31.741               | -11.051         | 74.000         | 31.209      | PK   |
| 2  |      |      | 2390.000        | 59.953                 | 28.750               | -14.047         | 74.000         | 31.203      | PK   |
| 3  |      | *    | 2410.800        | 113.108                | 81.936               | N/A             | N/A            | 31.172      | PK   |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

|                                                   |                          |
|---------------------------------------------------|--------------------------|
| Site: AC1                                         | Time: 2015/12/07 - 17:59 |
| Limit: FCC_Part15.209_RE(3m)                      | Engineer: Milo Li        |
| Probe: BBHA9120D_1-18GHz                          | Polarity: Horizontal     |
| EUT: Gateway                                      | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11b at Channel 2412MHz |                          |

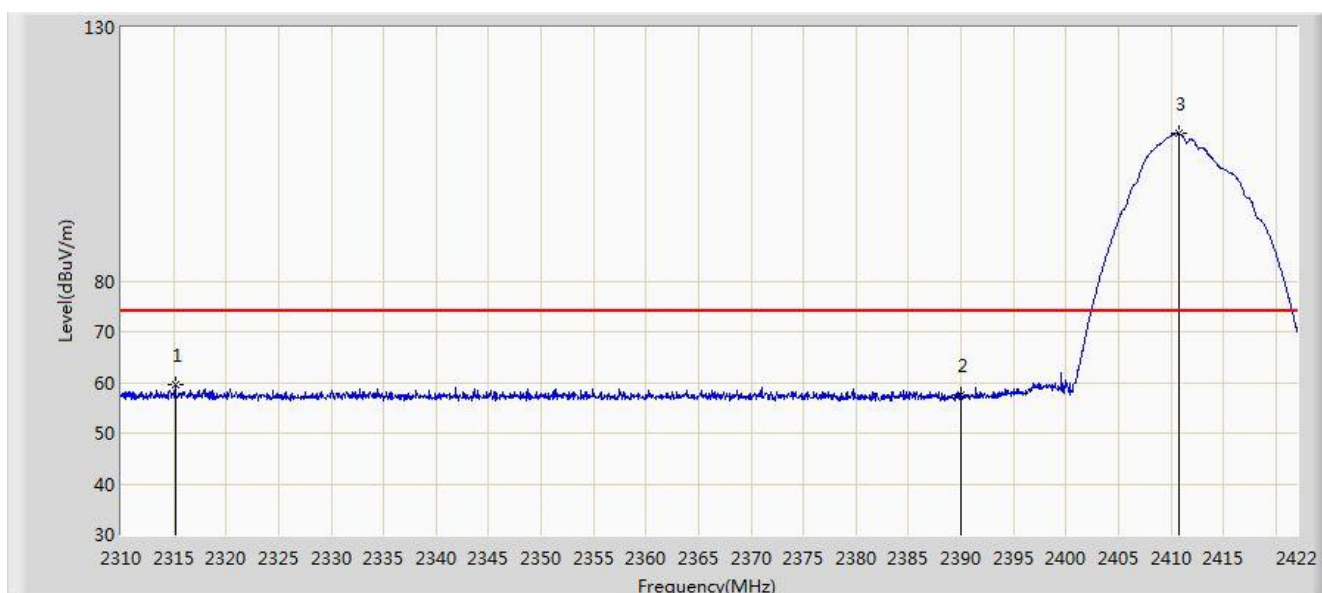


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      |      | 2352.112        | 47.240                 | 15.955               | -6.760          | 54.000         | 31.284      | AV   |
| 2  |      |      | 2390.000        | 46.227                 | 15.024               | -7.773          | 54.000         | 31.203      | AV   |
| 3  |      | *    | 2414.608        | 109.054                | 77.889               | N/A             | N/A            | 31.165      | AV   |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

|                                                   |                          |
|---------------------------------------------------|--------------------------|
| Site: AC1                                         | Time: 2015/12/07 - 18:02 |
| Limit: FCC_Part15.209_RE(3m)                      | Engineer: Milo Li        |
| Probe: BBHA9120D_1-18GHz                          | Polarity: Vertical       |
| EUT: Gateway                                      | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11b at Channel 2412MHz |                          |

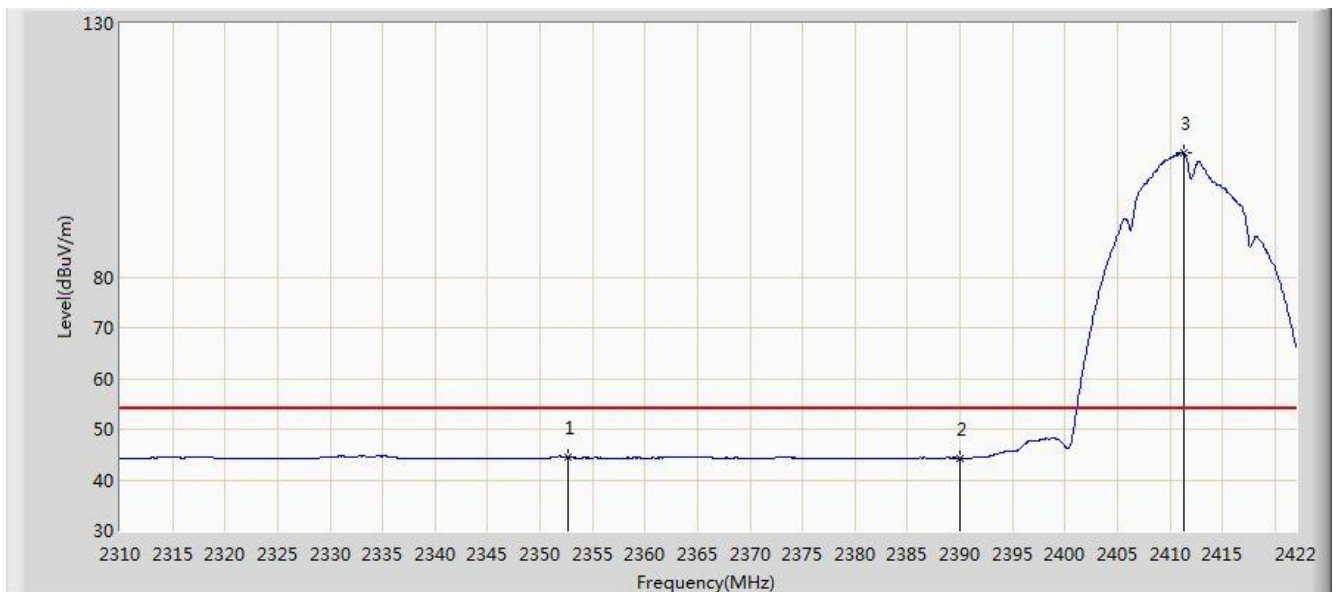


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      |      | 2315.152        | 59.438                 | 27.999               | -14.562         | 74.000         | 31.439      | PK   |
| 2  |      |      | 2390.000        | 57.655                 | 26.452               | -16.345         | 74.000         | 31.203      | PK   |
| 3  |      | *    | 2410.744        | 109.144                | 77.972               | N/A             | N/A            | 31.172      | PK   |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

|                                                   |                          |
|---------------------------------------------------|--------------------------|
| Site: AC1                                         | Time: 2015/12/07 - 18:04 |
| Limit: FCC_Part15.209_RE(3m)                      | Engineer: Milo Li        |
| Probe: BBHA9120D_1-18GHz                          | Polarity: Vertical       |
| EUT: Gateway                                      | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11b at Channel 2412MHz |                          |

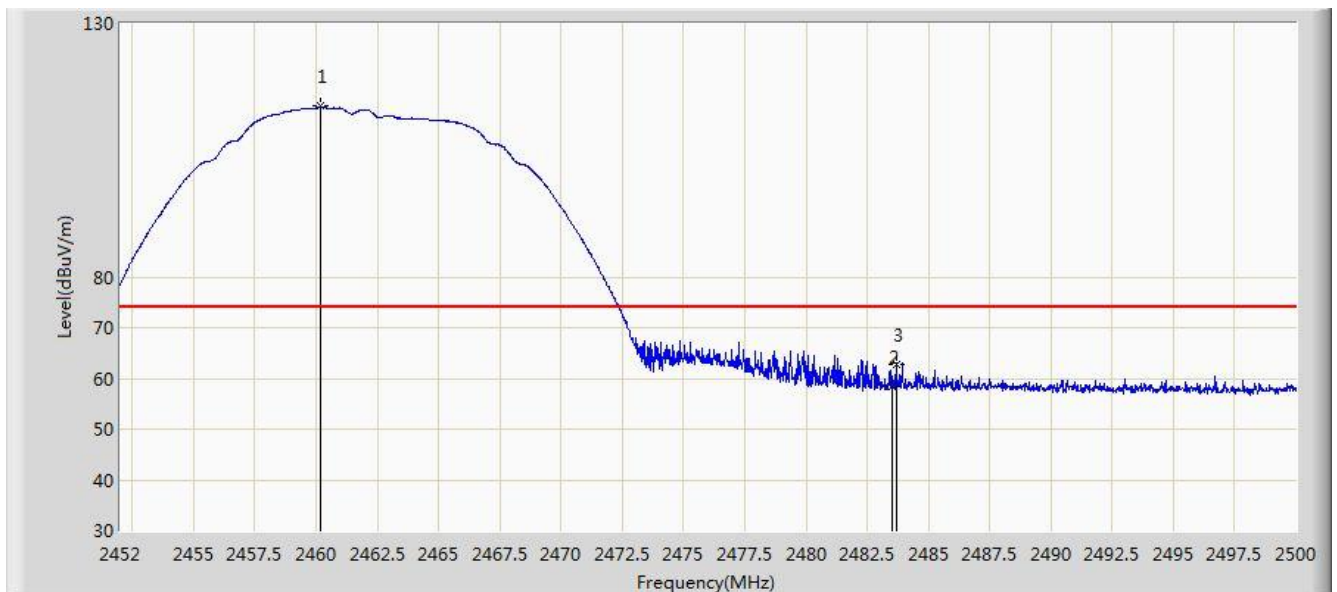


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      |      | 2352.616        | 44.496                 | 13.213               | -9.504          | 54.000         | 31.283      | AV   |
| 2  |      |      | 2390.000        | 44.340                 | 13.137               | -9.660          | 54.000         | 31.203      | AV   |
| 3  |      | *    | 2411.304        | 104.425                | 73.254               | N/A             | N/A            | 31.171      | AV   |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

|                                                   |                          |
|---------------------------------------------------|--------------------------|
| Site: AC1                                         | Time: 2015/12/07 - 18:29 |
| Limit: FCC_Part15.209_RE(3m)                      | Engineer: Milo Li        |
| Probe: BBHA9120D_1-18GHz                          | Polarity: Horizontal     |
| EUT: Gateway                                      | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11b at Channel 2462MHz |                          |



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      | *    | 2460.184        | 113.708                | 82.576               | N/A             | N/A            | 31.132      | PK   |
| 2  |      |      | 2483.500        | 58.293                 | 27.100               | -15.707         | 74.000         | 31.194      | PK   |
| 3  |      |      | 2483.704        | 62.819                 | 31.625               | -11.181         | 74.000         | 31.194      | PK   |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

|                                                   |                          |
|---------------------------------------------------|--------------------------|
| Site: AC1                                         | Time: 2015/12/07 - 18:31 |
| Limit: FCC_Part15.209_RE(3m)                      | Engineer: Milo Li        |
| Probe: BBHA9120D_1-18GHz                          | Polarity: Horizontal     |
| EUT: Gateway                                      | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11b at Channel 2462MHz |                          |

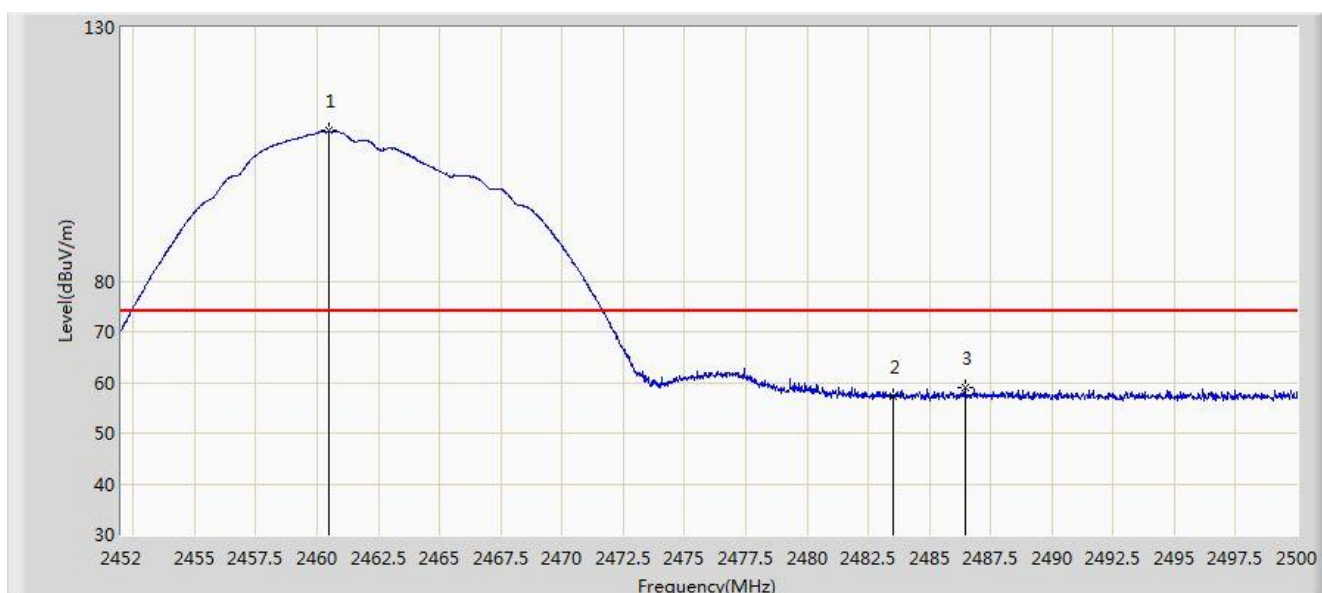


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      | *    | 2459.608        | 109.669                | 78.538               | N/A             | N/A            | 31.131      | AV   |
| 2  |      |      | 2483.500        | 47.144                 | 15.951               | -6.856          | 54.000         | 31.194      | AV   |
| 3  |      |      | 2487.208        | 47.388                 | 16.185               | -6.612          | 54.000         | 31.203      | AV   |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

|                                                   |                          |
|---------------------------------------------------|--------------------------|
| Site: AC1                                         | Time: 2015/12/07 - 18:36 |
| Limit: FCC_Part15.209_RE(3m)                      | Engineer: Milo Li        |
| Probe: BBHA9120D_1-18GHz                          | Polarity: Vertical       |
| EUT: Gateway                                      | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11b at Channel 2462MHz |                          |



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      | *    | 2460.496        | 109.821                | 78.688               | N/A             | N/A            | 31.133      | PK   |
| 2  |      |      | 2483.500        | 57.275                 | 26.082               | -16.725         | 74.000         | 31.194      | PK   |
| 3  |      |      | 2486.464        | 58.995                 | 27.794               | -15.005         | 74.000         | 31.201      | PK   |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

|                                                   |                          |
|---------------------------------------------------|--------------------------|
| Site: AC1                                         | Time: 2015/12/07 - 18:40 |
| Limit: FCC_Part15.209_RE(3m)                      | Engineer: Milo Li        |
| Probe: BBHA9120D_1-18GHz                          | Polarity: Vertical       |
| EUT: Gateway                                      | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11b at Channel 2462MHz |                          |

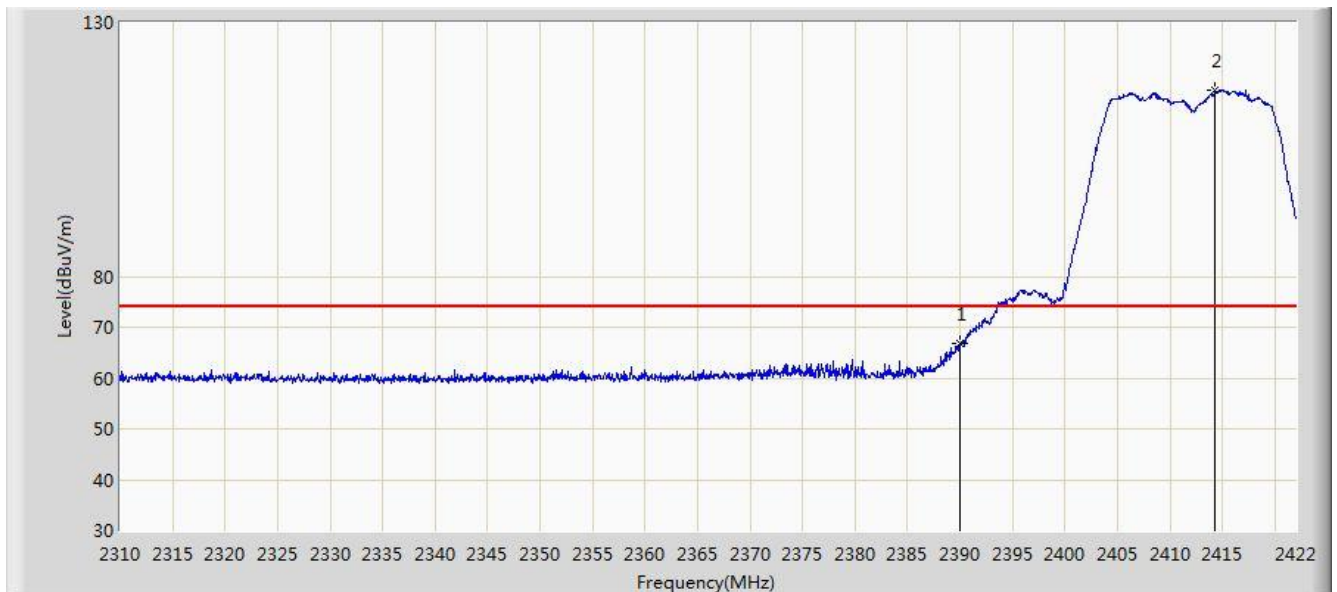


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      | *    | 2460.112        | 104.387                | 73.255               | N/A             | N/A            | 31.132      | AV   |
| 2  |      |      | 2483.500        | 44.570                 | 13.377               | -9.430          | 54.000         | 31.194      | AV   |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

|                                                   |                          |
|---------------------------------------------------|--------------------------|
| Site: AC1                                         | Time: 2015/12/07 - 18:44 |
| Limit: FCC_Part15.209_RE(3m)                      | Engineer: Milo Li        |
| Probe: BBHA9120D_1-18GHz                          | Polarity: Horizontal     |
| EUT: Gateway                                      | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11g at Channel 2412MHz |                          |

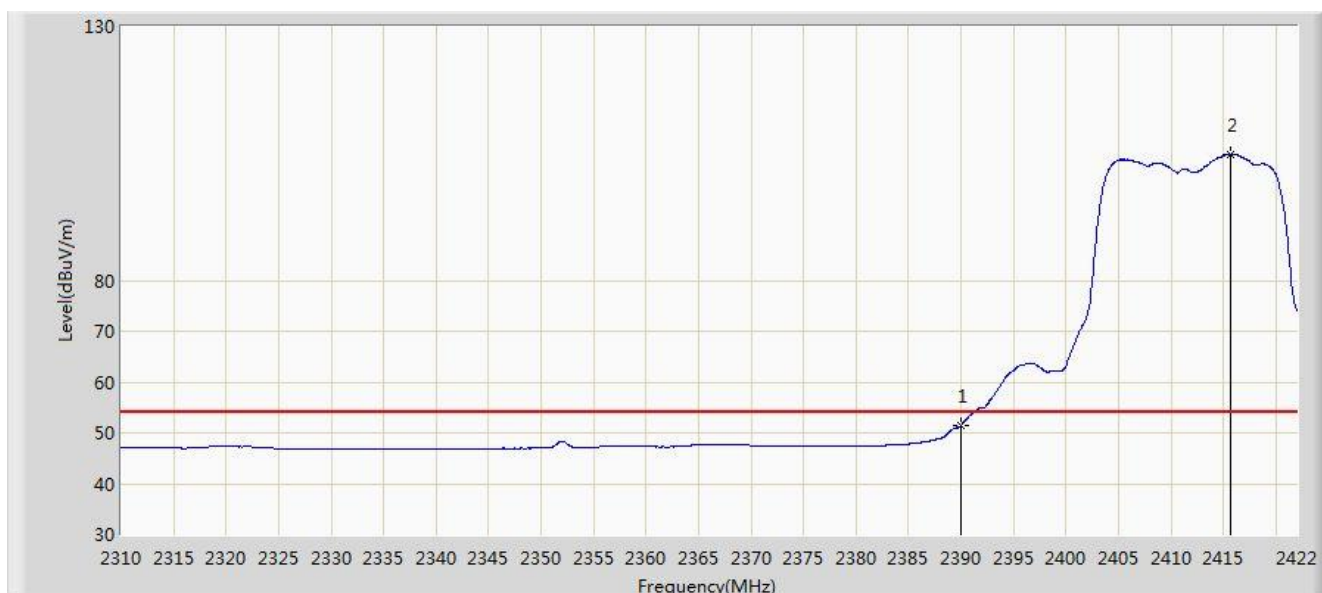


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      |      | 2390.000        | 66.685                 | 35.482               | -7.315          | 74.000         | 31.203      | PK   |
| 2  |      | *    | 2414.272        | 116.596                | 85.430               | N/A             | N/A            | 31.166      | PK   |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

|                                                   |                          |
|---------------------------------------------------|--------------------------|
| Site: AC1                                         | Time: 2015/12/07 - 18:47 |
| Limit: FCC_Part15.209_RE(3m)                      | Engineer: Milo Li        |
| Probe: BBHA9120D_1-18GHz                          | Polarity: Horizontal     |
| EUT: Gateway                                      | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11g at Channel 2412MHz |                          |

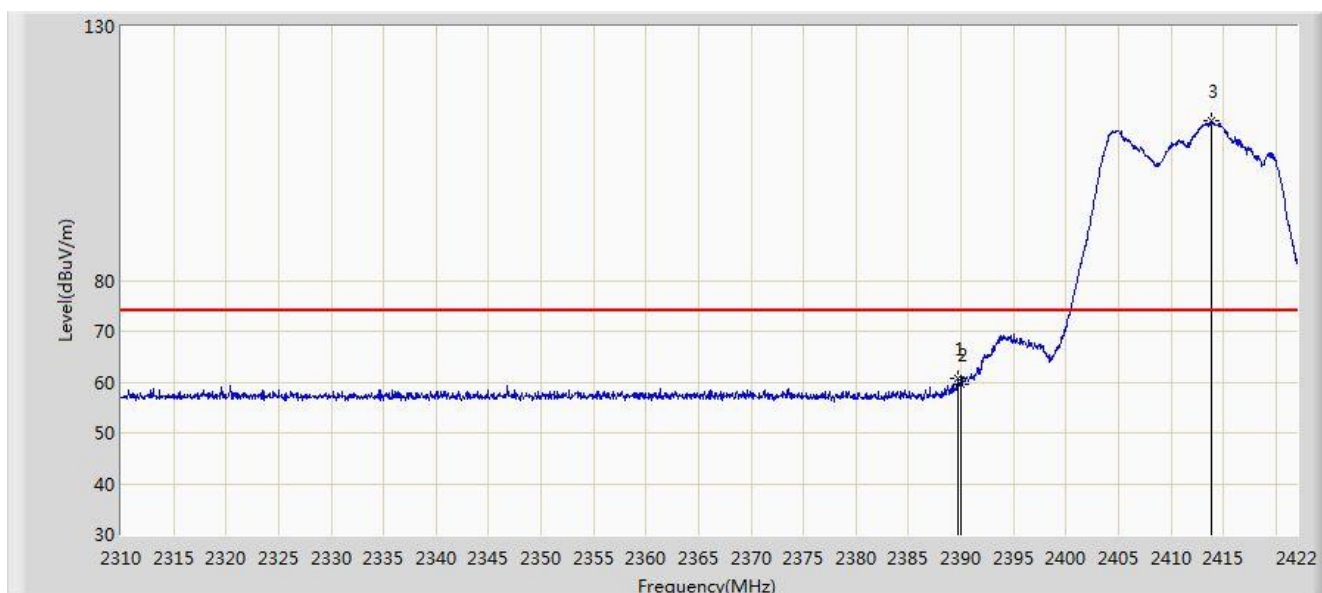


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      |      | 2390.000        | 51.477                 | 20.274               | -2.523          | 54.000         | 31.203      | AV   |
| 2  |      | *    | 2415.672        | 104.805                | 73.642               | N/A             | N/A            | 31.163      | AV   |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

|                                                   |                          |
|---------------------------------------------------|--------------------------|
| Site: AC1                                         | Time: 2015/12/07 - 18:52 |
| Limit: FCC_Part15.209_RE(3m)                      | Engineer: Milo Li        |
| Probe: BBHA9120D_1-18GHz                          | Polarity: Vertical       |
| EUT: Gateway                                      | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11g at Channel 2412MHz |                          |



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      |      | 2389.688        | 60.629                 | 29.426               | -13.371         | 74.000         | 31.204      | PK   |
| 2  |      |      | 2390.000        | 59.704                 | 28.501               | -14.296         | 74.000         | 31.203      | PK   |
| 3  |      | *    | 2413.824        | 111.549                | 80.383               | N/A             | N/A            | 31.167      | PK   |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

|                                                   |                          |
|---------------------------------------------------|--------------------------|
| Site: AC1                                         | Time: 2015/12/07 - 18:54 |
| Limit: FCC_Part15.209_RE(3m)                      | Engineer: Milo Li        |
| Probe: BBHA9120D_1-18GHz                          | Polarity: Vertical       |
| EUT: Gateway                                      | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11g at Channel 2412MHz |                          |

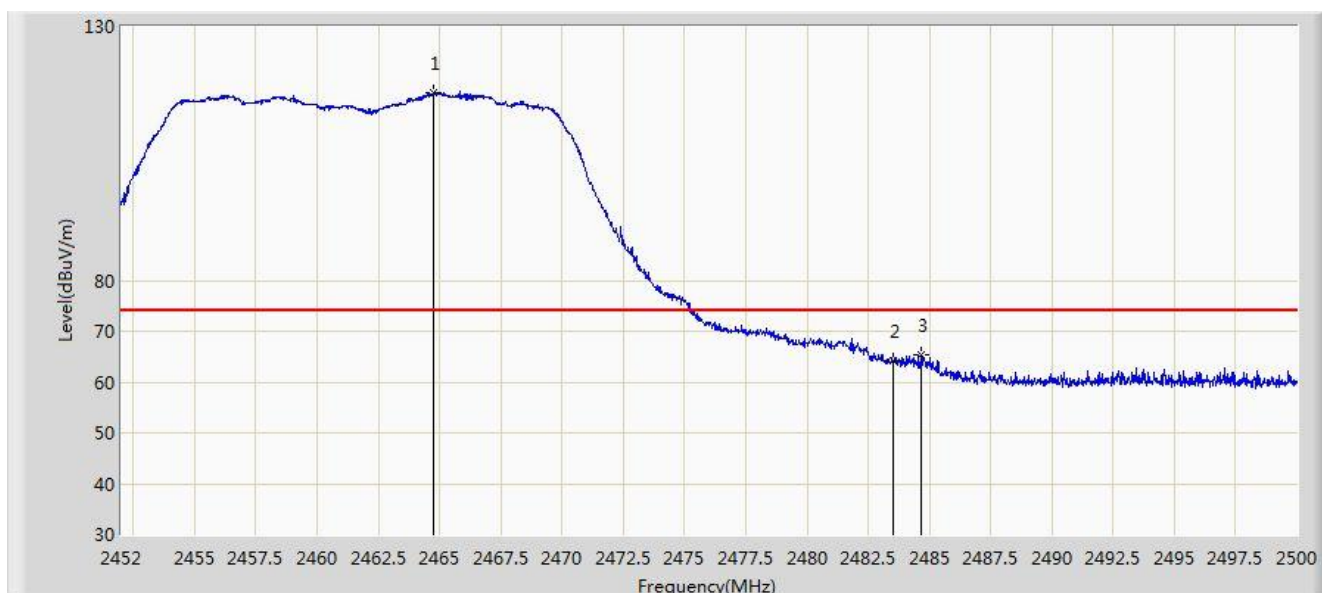


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      |      | 2390.000        | 45.915                 | 14.712               | -8.085          | 54.000         | 31.203      | AV   |
| 2  |      | *    | 2413.208        | 98.807                 | 67.640               | N/A             | N/A            | 31.167      | AV   |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

|                                                   |                          |
|---------------------------------------------------|--------------------------|
| Site: AC1                                         | Time: 2015/12/07 - 18:58 |
| Limit: FCC_Part15.209_RE(3m)                      | Engineer: Milo Li        |
| Probe: BBHA9120D_1-18GHz                          | Polarity: Horizontal     |
| EUT: Gateway                                      | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11g at Channel 2462MHz |                          |

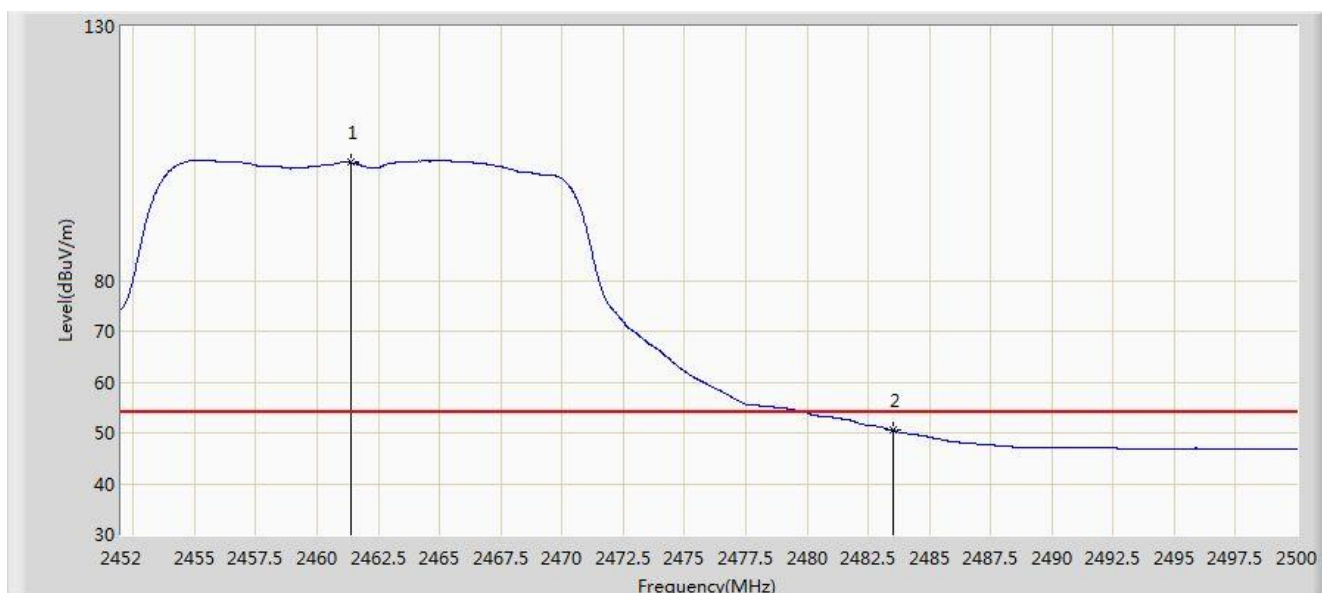


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      | *    | 2464.768        | 116.861                | 85.719               | N/A             | N/A            | 31.142      | PK   |
| 2  |      |      | 2483.500        | 64.078                 | 32.885               | -9.922          | 74.000         | 31.194      | PK   |
| 3  |      |      | 2484.664        | 65.463                 | 34.267               | -8.537          | 74.000         | 31.197      | PK   |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

|                                                   |                          |
|---------------------------------------------------|--------------------------|
| Site: AC1                                         | Time: 2015/12/07 - 19:01 |
| Limit: FCC_Part15.209_RE(3m)                      | Engineer: Milo Li        |
| Probe: BBHA9120D_1-18GHz                          | Polarity: Horizontal     |
| EUT: Gateway                                      | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11g at Channel 2462MHz |                          |

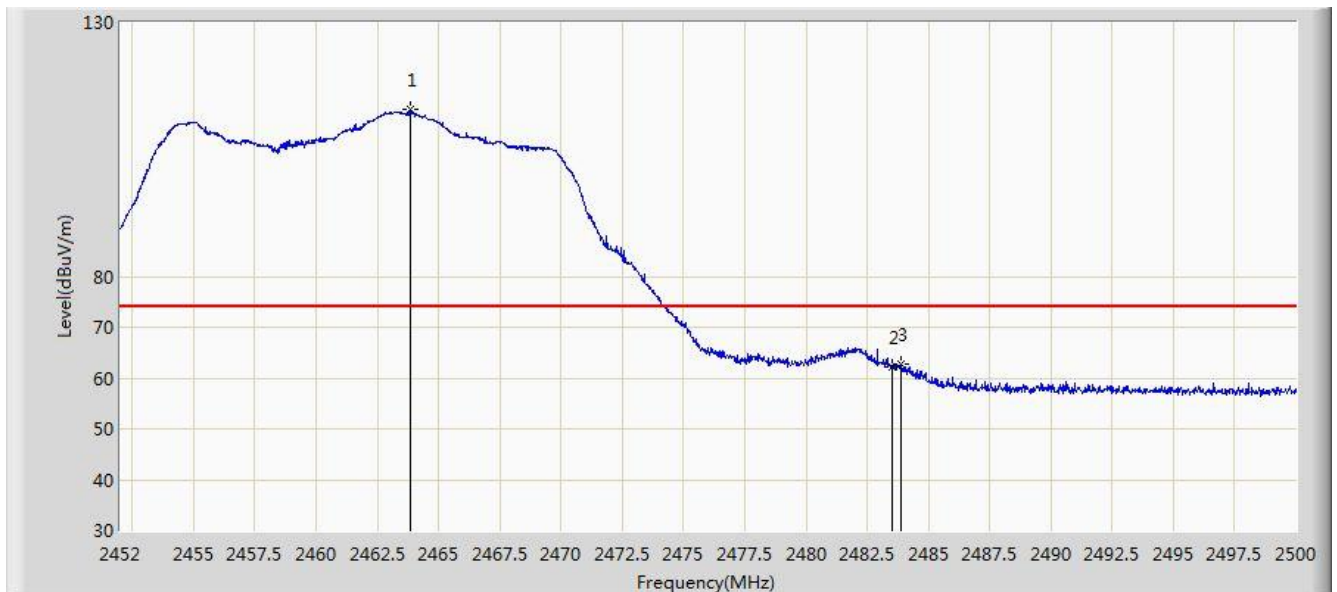


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      | *    | 2461.384        | 103.227                | 72.093               | N/A             | N/A            | 31.134      | AV   |
| 2  |      |      | 2483.500        | 50.568                 | 19.375               | -3.432          | 54.000         | 31.194      | AV   |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

|                                                   |                          |
|---------------------------------------------------|--------------------------|
| Site: AC1                                         | Time: 2015/12/07 - 19:03 |
| Limit: FCC_Part15.209_RE(3m)                      | Engineer: Milo Li        |
| Probe: BBHA9120D_1-18GHz                          | Polarity: Vertical       |
| EUT: Gateway                                      | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11g at Channel 2462MHz |                          |

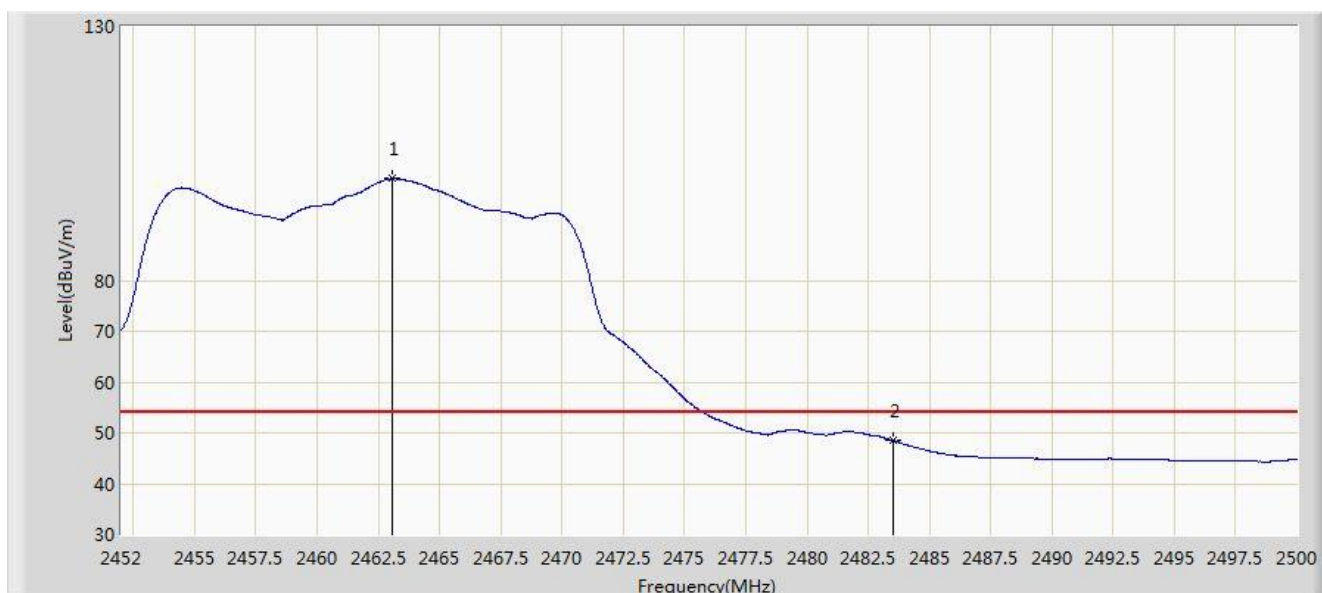


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      | *    | 2463.832        | 112.792                | 81.653               | N/A             | N/A            | 31.139      | PK   |
| 2  |      |      | 2483.500        | 62.258                 | 31.065               | -11.742         | 74.000         | 31.194      | PK   |
| 3  |      |      | 2483.896        | 62.656                 | 31.462               | -11.344         | 74.000         | 31.194      | PK   |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

|                                                   |                          |
|---------------------------------------------------|--------------------------|
| Site: AC1                                         | Time: 2015/12/07 - 19:07 |
| Limit: FCC_Part15.209_RE(3m)                      | Engineer: Milo Li        |
| Probe: BBHA9120D_1-18GHz                          | Polarity: Vertical       |
| EUT: Gateway                                      | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11g at Channel 2462MHz |                          |

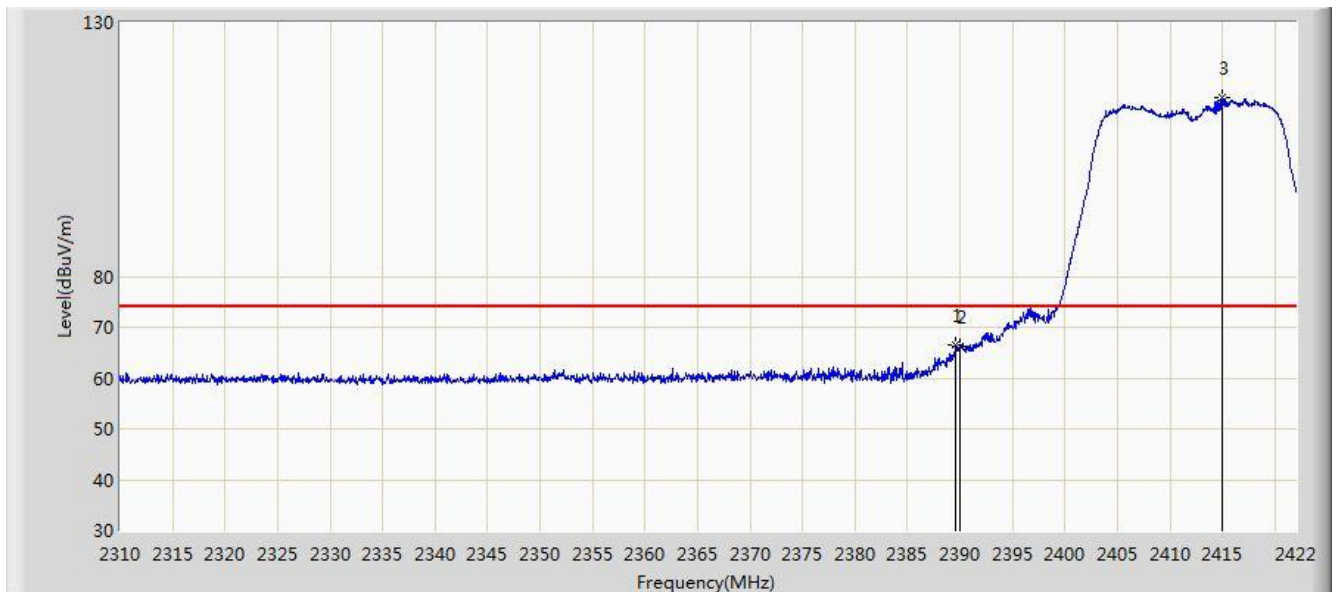


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      | *    | 2463.088        | 100.004                | 68.867               | N/A             | N/A            | 31.137      | AV   |
| 2  |      |      | 2483.500        | 48.475                 | 17.282               | -5.525          | 54.000         | 31.194      | AV   |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

|                                                        |                          |
|--------------------------------------------------------|--------------------------|
| Site: AC1                                              | Time: 2015/12/07 - 19:15 |
| Limit: FCC_Part15.209_RE(3m)                           | Engineer: Milo Li        |
| Probe: BBHA9120D_1-18GHz                               | Polarity: Horizontal     |
| EUT: Gateway                                           | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11n-HT20 at Channel 2412MHz |                          |

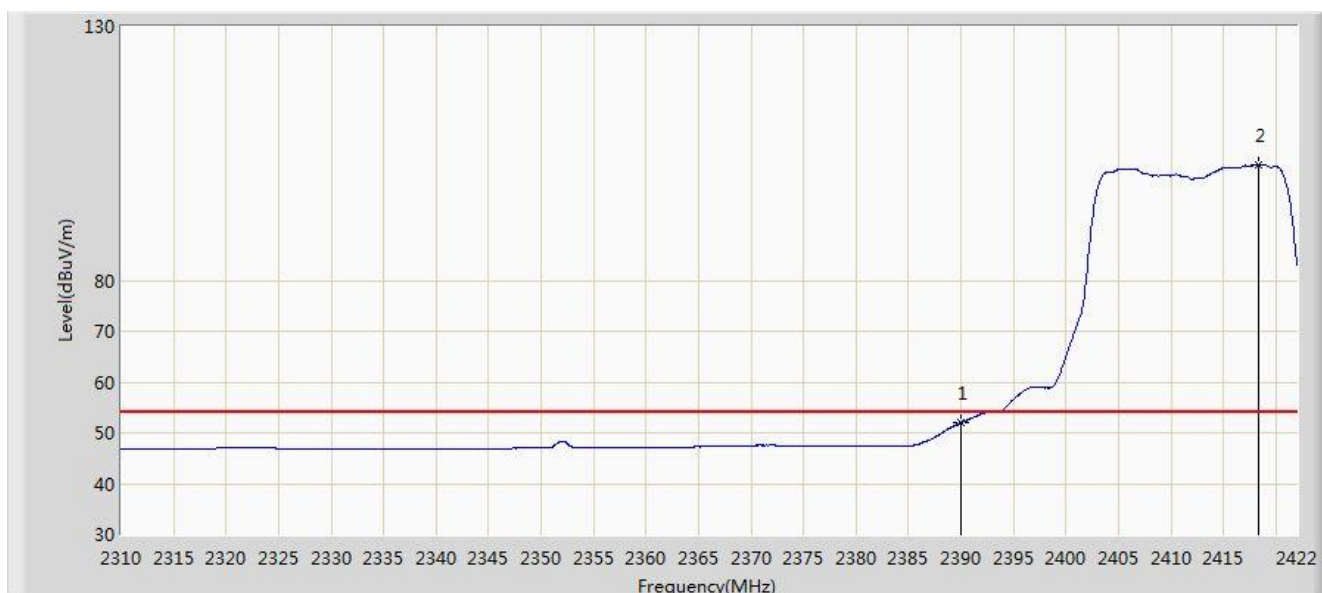


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      |      | 2389.632        | 66.532                 | 35.329               | -7.468          | 74.000         | 31.204      | PK   |
| 2  |      |      | 2390.000        | 66.229                 | 35.026               | -7.771          | 74.000         | 31.203      | PK   |
| 3  |      | *    | 2415.000        | 115.215                | 84.051               | N/A             | N/A            | 31.165      | PK   |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

|                                                        |                          |
|--------------------------------------------------------|--------------------------|
| Site: AC1                                              | Time: 2015/12/07 - 19:18 |
| Limit: FCC_Part15.209_RE(3m)                           | Engineer: Milo Li        |
| Probe: BBHA9120D_1-18GHz                               | Polarity: Horizontal     |
| EUT: Gateway                                           | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11n-HT20 at Channel 2412MHz |                          |

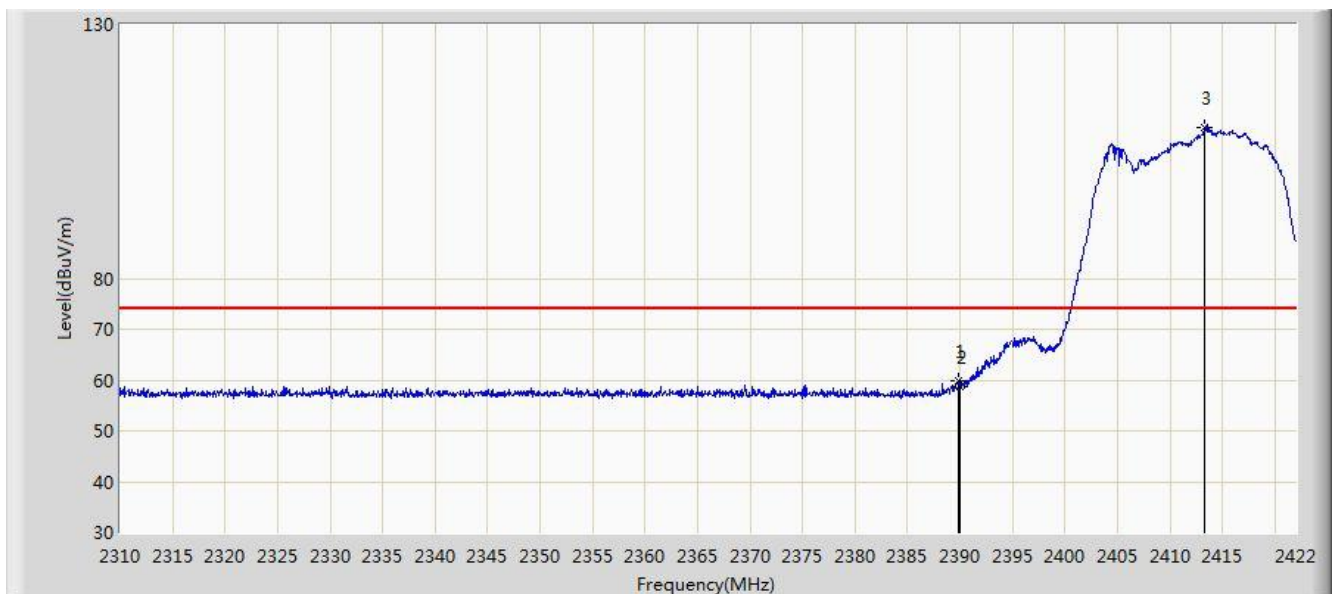


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      |      | 2390.000        | 51.998                 | 20.795               | -2.002          | 54.000         | 31.203      | AV   |
| 2  |      | *    | 2418.304        | 102.691                | 71.532               | N/A             | N/A            | 31.159      | AV   |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

|                                                        |                          |
|--------------------------------------------------------|--------------------------|
| Site: AC1                                              | Time: 2015/12/07 - 19:27 |
| Limit: FCC_Part15.209_RE(3m)                           | Engineer: Milo Li        |
| Probe: BBHA9120D_1-18GHz                               | Polarity: Vertical       |
| EUT: Gateway                                           | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11n-HT20 at Channel 2412MHz |                          |

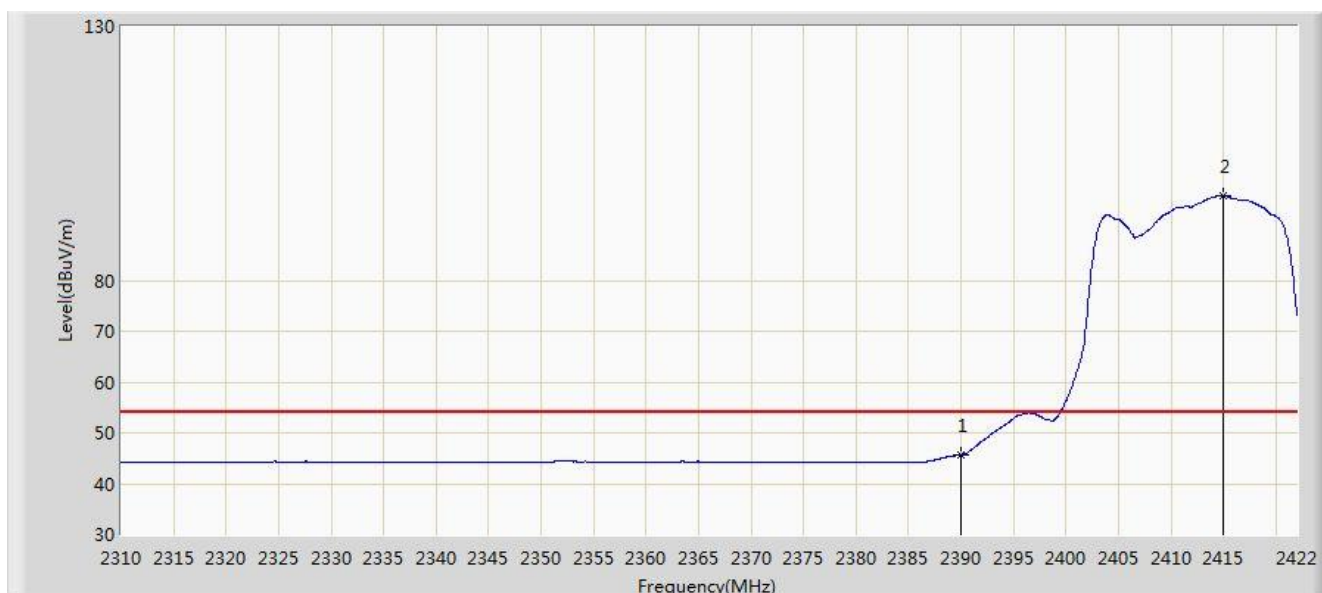


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      |      | 2389.912        | 59.882                 | 28.679               | -14.118         | 74.000         | 31.203      | PK   |
| 2  |      |      | 2390.000        | 58.748                 | 27.545               | -15.252         | 74.000         | 31.203      | PK   |
| 3  |      | *    | 2413.320        | 109.754                | 78.587               | N/A             | N/A            | 31.168      | PK   |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

|                                                        |                          |
|--------------------------------------------------------|--------------------------|
| Site: AC1                                              | Time: 2015/12/07 - 19:31 |
| Limit: FCC_Part15.209_RE(3m)                           | Engineer: Milo Li        |
| Probe: BBHA9120D_1-18GHz                               | Polarity: Vertical       |
| EUT: Gateway                                           | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11n-HT20 at Channel 2412MHz |                          |

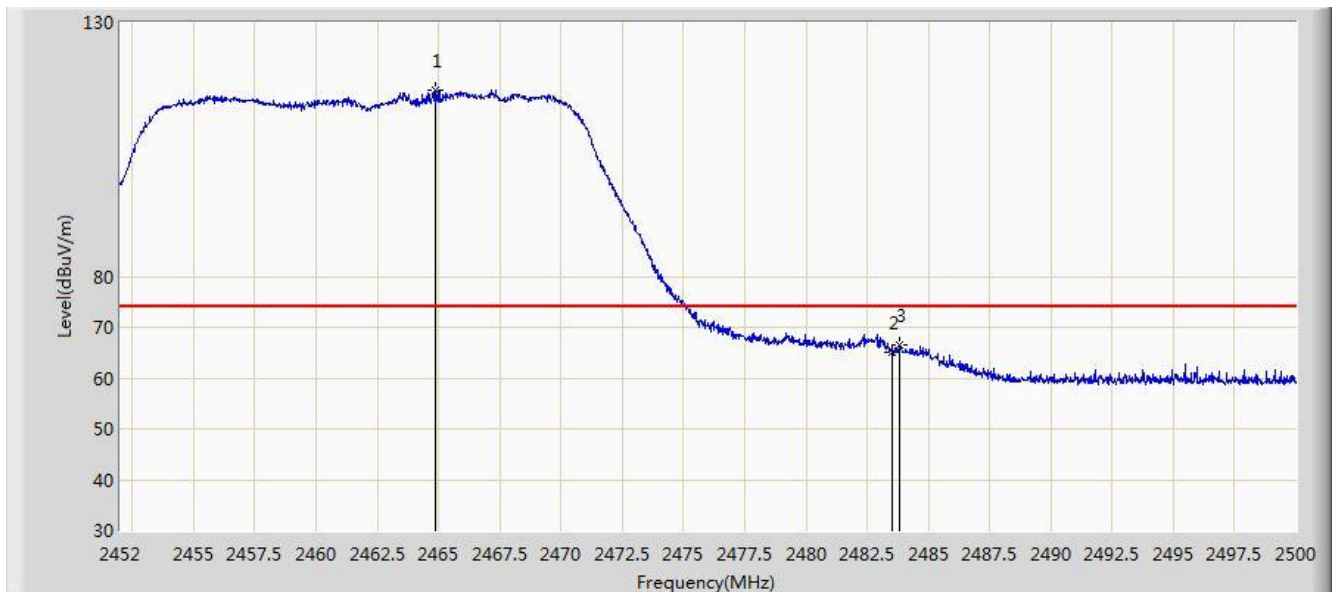


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      |      | 2390.000        | 45.661                 | 14.458               | -8.339          | 54.000         | 31.203      | AV   |
| 2  |      | *    | 2415.000        | 96.756                 | 65.592               | N/A             | N/A            | 31.165      | AV   |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

|                                                        |                          |
|--------------------------------------------------------|--------------------------|
| Site: AC1                                              | Time: 2015/12/07 - 19:48 |
| Limit: FCC_Part15.209_RE(3m)                           | Engineer: Milo Li        |
| Probe: BBHA9120D_1-18GHz                               | Polarity: Horizontal     |
| EUT: Gateway                                           | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11n-HT20 at Channel 2462MHz |                          |

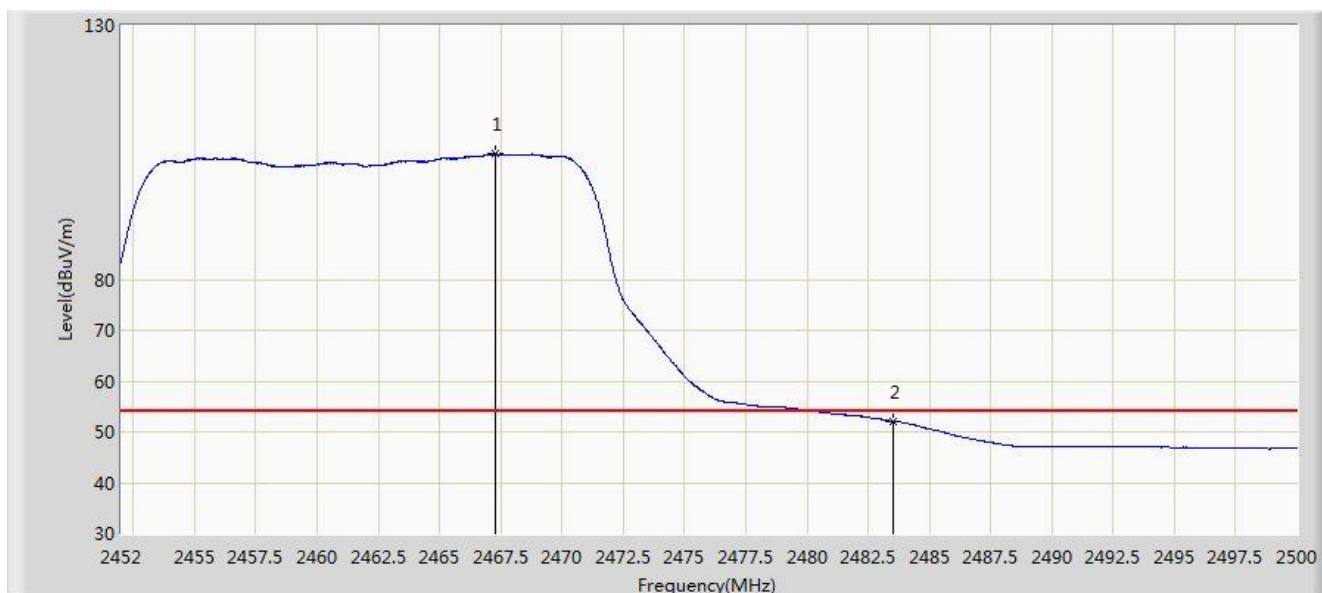


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      | *    | 2464.864        | 116.664                | 85.522               | N/A             | N/A            | 31.142      | PK   |
| 2  |      |      | 2483.500        | 65.185                 | 33.992               | -8.815          | 74.000         | 31.194      | PK   |
| 3  |      |      | 2483.824        | 66.410                 | 35.216               | -7.590          | 74.000         | 31.194      | PK   |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

|                                                        |                          |
|--------------------------------------------------------|--------------------------|
| Site: AC1                                              | Time: 2015/12/07 - 19:44 |
| Limit: FCC_Part15.209_RE(3m)                           | Engineer: Milo Li        |
| Probe: BBHA9120D_1-18GHz                               | Polarity: Horizontal     |
| EUT: Gateway                                           | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11n-HT20 at Channel 2462MHz |                          |

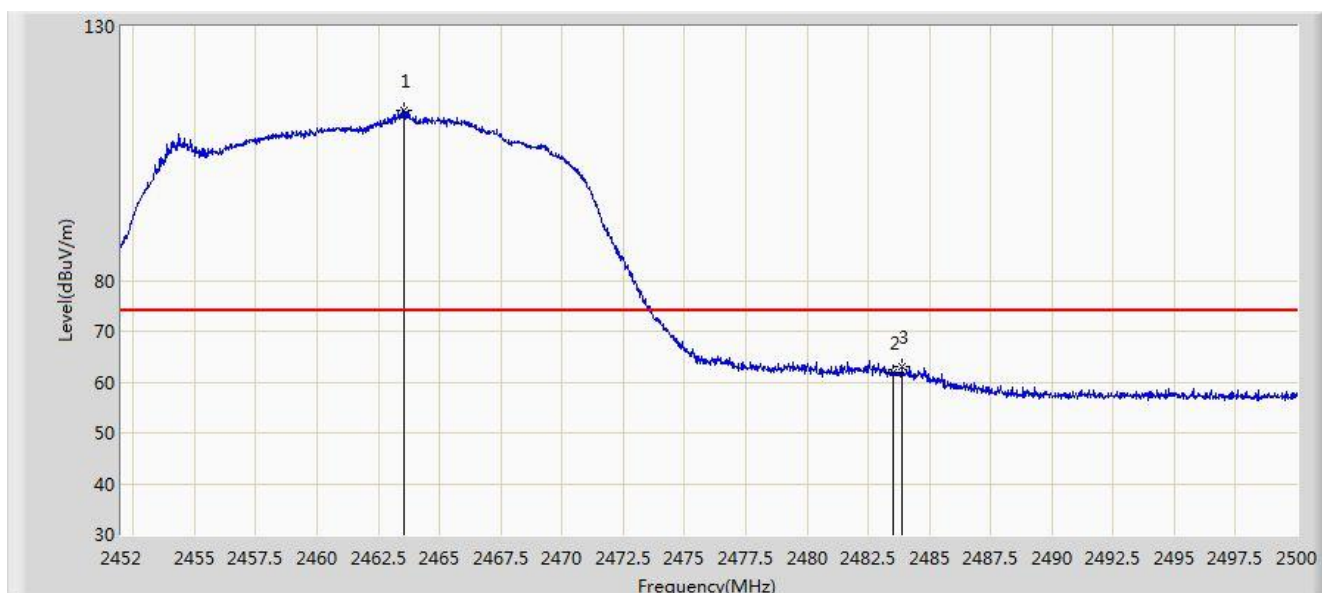


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      | *    | 2467.288        | 104.690                | 73.541               | N/A             | N/A            | 31.148      | AV   |
| 2  |      |      | 2483.500        | 52.139                 | 20.946               | -1.861          | 54.000         | 31.194      | AV   |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

|                                                        |                          |
|--------------------------------------------------------|--------------------------|
| Site: AC1                                              | Time: 2015/12/07 - 19:49 |
| Limit: FCC_Part15.209_RE(3m)                           | Engineer: Milo Li        |
| Probe: BBHA9120D_1-18GHz                               | Polarity: Vertical       |
| EUT: Gateway                                           | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11n-HT20 at Channel 2462MHz |                          |

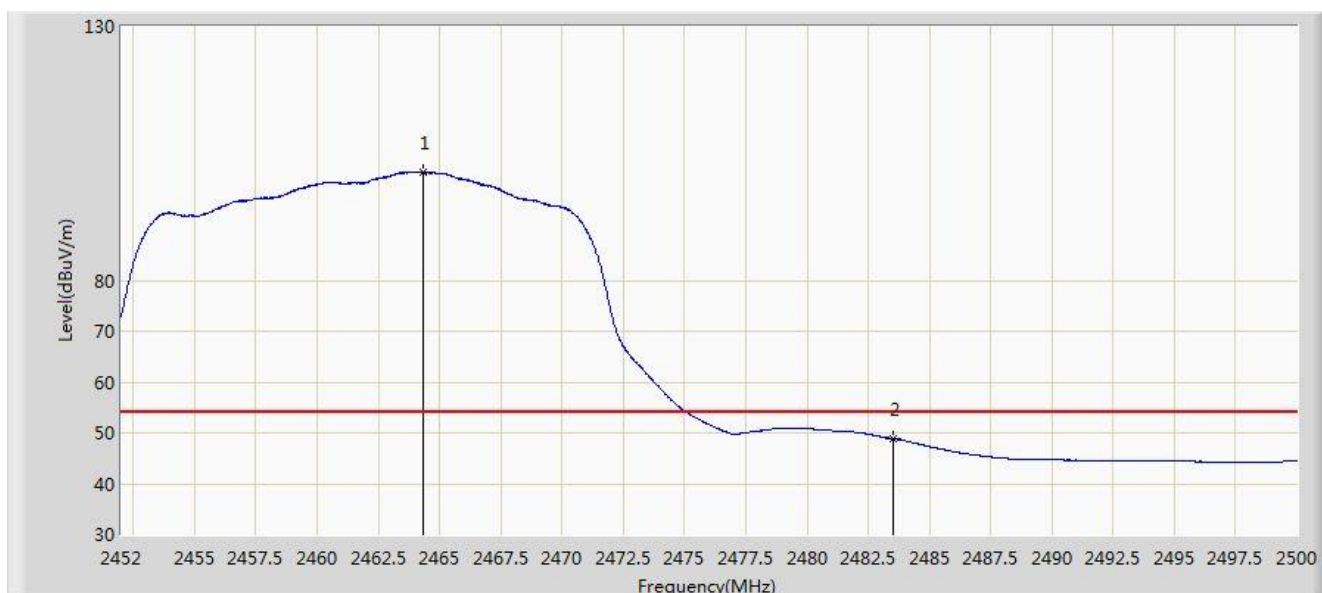


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      | *    | 2463.544        | 113.482                | 82.344               | N/A             | N/A            | 31.139      | PK   |
| 2  |      |      | 2483.500        | 61.832                 | 30.639               | -12.168         | 74.000         | 31.194      | PK   |
| 3  |      |      | 2483.872        | 62.917                 | 31.723               | -11.083         | 74.000         | 31.194      | PK   |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

|                                                        |                          |
|--------------------------------------------------------|--------------------------|
| Site: AC1                                              | Time: 2015/12/07 - 19:52 |
| Limit: FCC_Part15.209_RE(3m)                           | Engineer: Milo Li        |
| Probe: BBHA9120D_1-18GHz                               | Polarity: Vertical       |
| EUT: Gateway                                           | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11n-HT20 at Channel 2462MHz |                          |

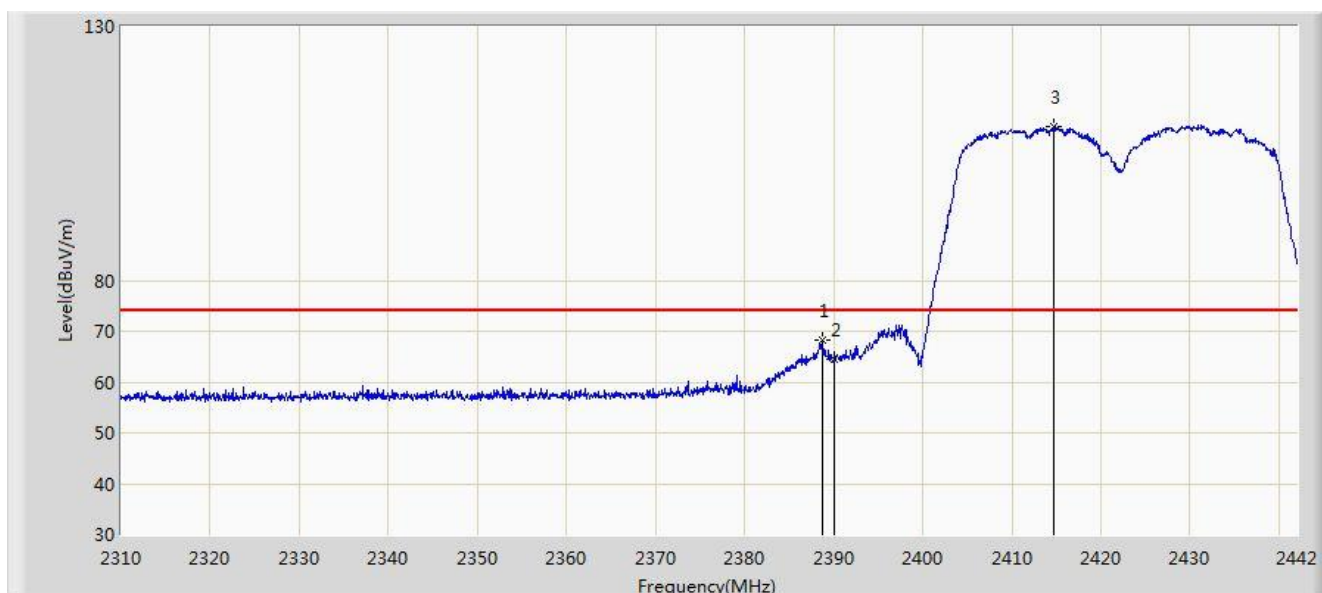


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      | *    | 2464.360        | 101.286                | 70.146               | N/A             | N/A            | 31.140      | AV   |
| 2  |      |      | 2483.500        | 48.912                 | 17.719               | -5.088          | 54.000         | 31.194      | AV   |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

|                                                        |                          |
|--------------------------------------------------------|--------------------------|
| Site: AC1                                              | Time: 2015/12/07 - 20:40 |
| Limit: FCC_Part15.209_RE(3m)                           | Engineer: Milo Li        |
| Probe: BBHA9120D_1-18GHz                               | Polarity: Horizontal     |
| EUT: Gateway                                           | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11n-HT40 at Channel 2422MHz |                          |

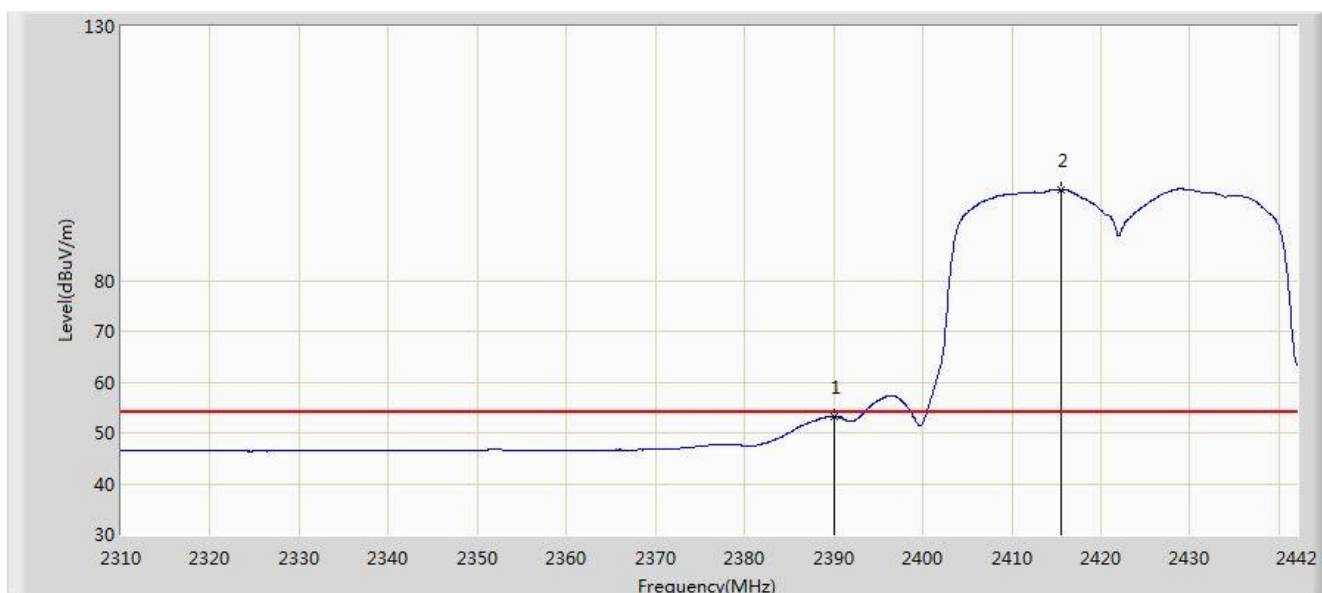


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      |      | 2388.738        | 68.389                 | 37.184               | -5.611          | 74.000         | 31.205      | PK   |
| 2  |      |      | 2390.000        | 64.450                 | 33.247               | -9.550          | 74.000         | 31.203      | PK   |
| 3  |      | *    | 2414.742        | 110.245                | 79.080               | N/A             | N/A            | 31.164      | PK   |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

|                                                        |                          |
|--------------------------------------------------------|--------------------------|
| Site: AC1                                              | Time: 2015/12/07 - 20:36 |
| Limit: FCC_Part15.209_RE(3m)                           | Engineer: Milo Li        |
| Probe: BBHA9120D_1-18GHz                               | Polarity: Horizontal     |
| EUT: Gateway                                           | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11n-HT40 at Channel 2422MHz |                          |

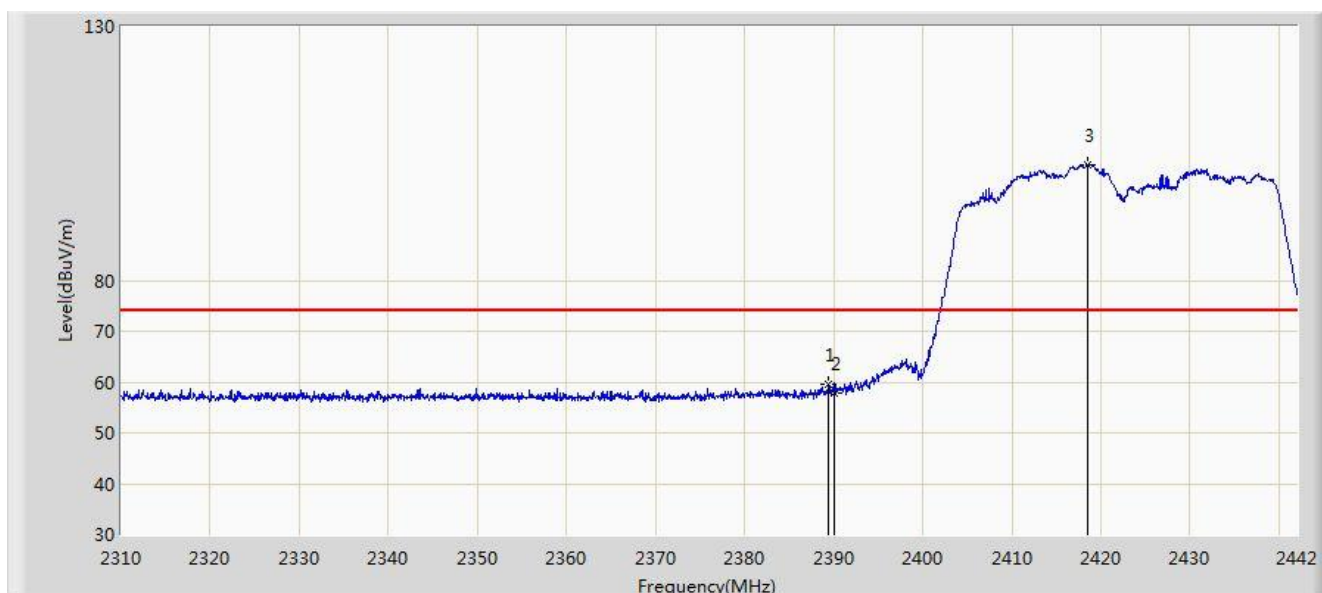


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      |      | 2390.000        | 53.173                 | 21.970               | -0.827          | 54.000         | 31.203      | AV   |
| 2  |      | *    | 2415.468        | 97.934                 | 66.770               | N/A             | N/A            | 31.164      | AV   |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

|                                                        |                          |
|--------------------------------------------------------|--------------------------|
| Site: AC1                                              | Time: 2015/12/07 - 20:42 |
| Limit: FCC_Part15.209_RE(3m)                           | Engineer: Milo Li        |
| Probe: BBHA9120D_1-18GHz                               | Polarity: Vertical       |
| EUT: Gateway                                           | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11n-HT40 at Channel 2422MHz |                          |



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      |      | 2389.464        | 59.691                 | 28.487               | -14.309         | 74.000         | 31.204      | PK   |
| 2  |      |      | 2390.000        | 57.864                 | 26.661               | -16.136         | 74.000         | 31.203      | PK   |
| 3  |      | *    | 2418.570        | 102.874                | 71.716               | N/A             | N/A            | 31.158      | PK   |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

|                                                        |                          |
|--------------------------------------------------------|--------------------------|
| Site: AC1                                              | Time: 2015/12/07 - 20:44 |
| Limit: FCC_Part15.209_RE(3m)                           | Engineer: Milo Li        |
| Probe: BBHA9120D_1-18GHz                               | Polarity: Vertical       |
| EUT: Gateway                                           | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11n-HT40 at Channel 2422MHz |                          |

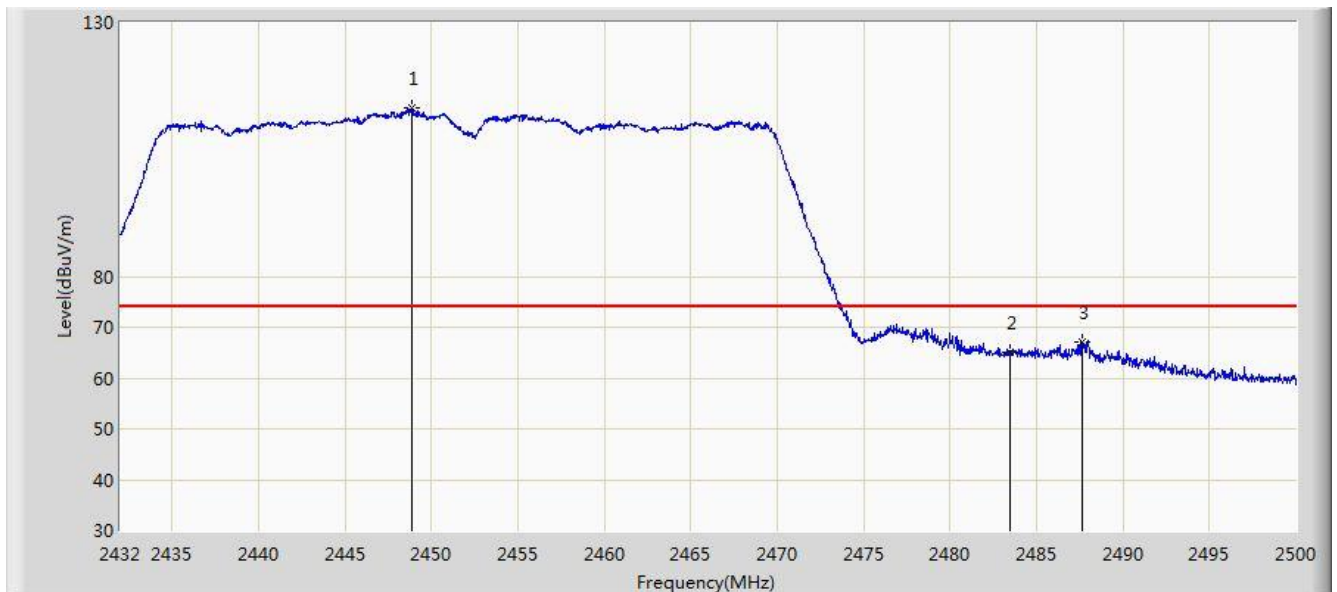


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      |      | 2390.000        | 45.874                 | 14.671               | -8.126          | 54.000         | 31.203      | AV   |
| 2  |      | *    | 2419.362        | 91.624                 | 60.467               | N/A             | N/A            | 31.156      | AV   |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

|                                                        |                          |
|--------------------------------------------------------|--------------------------|
| Site: AC1                                              | Time: 2015/12/07 - 21:04 |
| Limit: FCC_Part15.209_RE(3m)                           | Engineer: Milo Li        |
| Probe: BBHA9120D_1-18GHz                               | Polarity: Horizontal     |
| EUT: Gateway                                           | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11n-HT40 at Channel 2452MHz |                          |

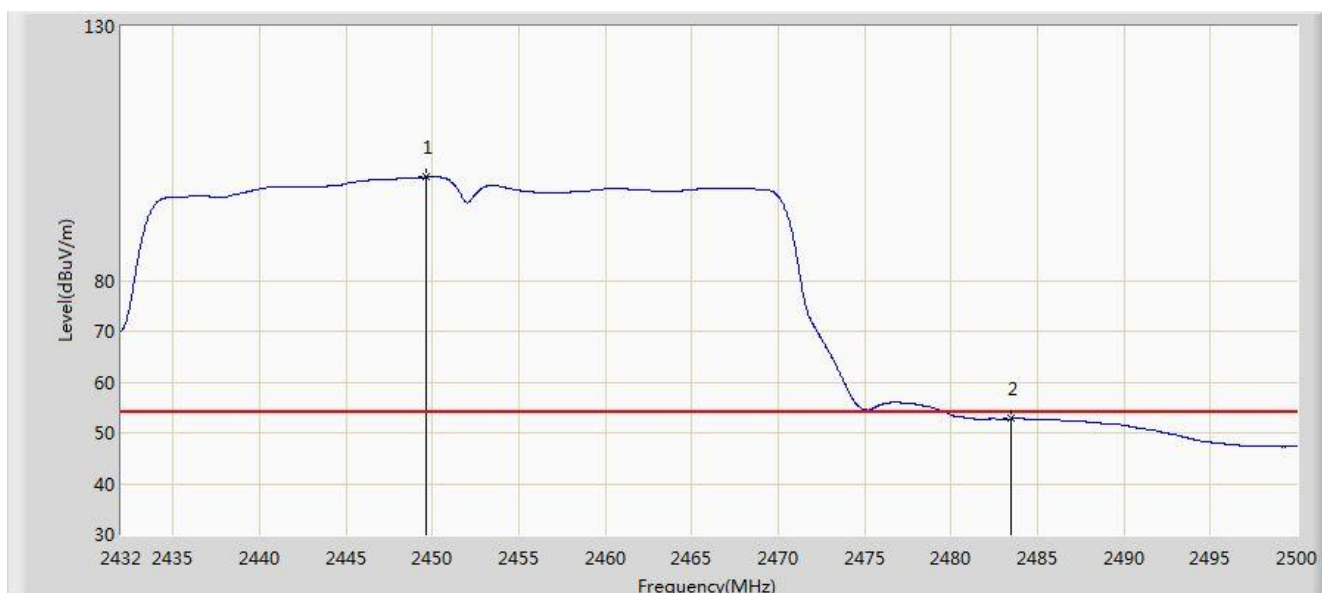


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      | *    | 2448.898        | 113.078                | 81.966               | N/A             | N/A            | 31.112      | PK   |
| 2  |      |      | 2483.500        | 65.026                 | 33.833               | -8.974          | 74.000         | 31.194      | PK   |
| 3  |      |      | 2487.624        | 67.206                 | 36.002               | -6.794          | 74.000         | 31.204      | PK   |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

|                                                        |                          |
|--------------------------------------------------------|--------------------------|
| Site: AC1                                              | Time: 2015/12/07 - 21:02 |
| Limit: FCC_Part15.209_RE(3m)                           | Engineer: Milo Li        |
| Probe: BBHA9120D_1-18GHz                               | Polarity: Horizontal     |
| EUT: Gateway                                           | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11n-HT40 at Channel 2452MHz |                          |



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      | *    | 2449.646        | 100.346                | 69.233               | N/A             | N/A            | 31.113      | AV   |
| 2  |      |      | 2483.500        | 52.758                 | 21.565               | -1.242          | 54.000         | 31.194      | AV   |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

|                                                        |                          |
|--------------------------------------------------------|--------------------------|
| Site: AC1                                              | Time: 2015/12/07 - 21:06 |
| Limit: FCC_Part15.209_RE(3m)                           | Engineer: Milo Li        |
| Probe: BBHA9120D_1-18GHz                               | Polarity: Vertical       |
| EUT: Gateway                                           | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11n-HT40 at Channel 2452MHz |                          |

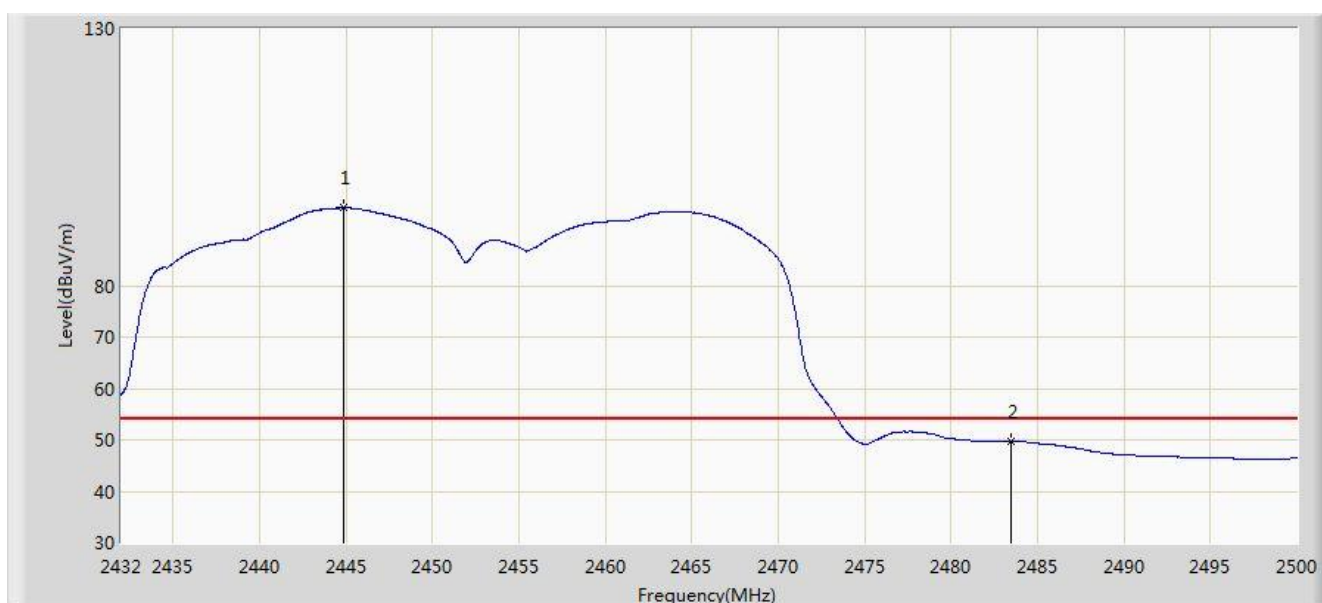


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      | *    | 2443.424        | 107.567                | 76.455               | N/A             | N/A            | 31.112      | PK   |
| 2  |      |      | 2483.500        | 61.035                 | 29.842               | -12.965         | 74.000         | 31.194      | PK   |
| 3  |      |      | 2483.782        | 62.623                 | 31.429               | -11.377         | 74.000         | 31.194      | PK   |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

|                                                        |                          |
|--------------------------------------------------------|--------------------------|
| Site: AC1                                              | Time: 2015/12/07 - 21:07 |
| Limit: FCC_Part15.209_RE(3m)                           | Engineer: Milo Li        |
| Probe: BBHA9120D_1-18GHz                               | Polarity: Vertical       |
| EUT: Gateway                                           | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11n-HT40 at Channel 2452MHz |                          |



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      | *    | 2444.852        | 95.111                 | 64.002               | N/A             | N/A            | 31.109      | AV   |
| 2  |      |      | 2483.500        | 49.707                 | 18.514               | -4.293          | 54.000         | 31.194      | AV   |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

## 7.8. AC Conducted Emissions Measurement

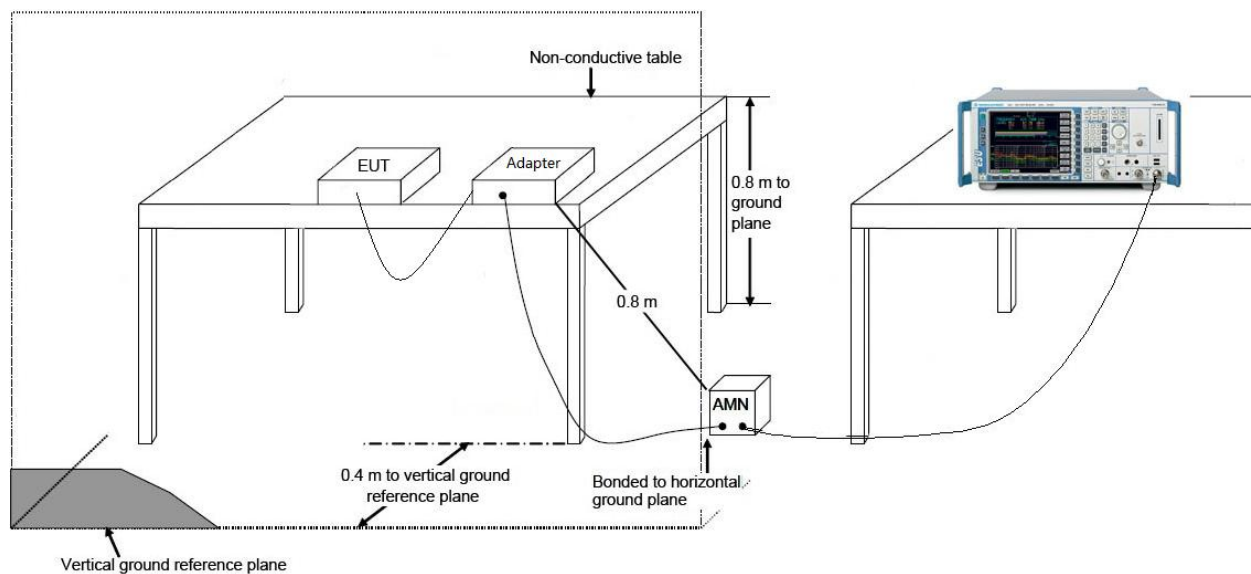
### 7.8.1. Test Limit

| FCC Part 15 Subpart C Paragraph 15.207 Limits |           |           |
|-----------------------------------------------|-----------|-----------|
| Frequency (MHz)                               | QP (dBuV) | AV (dBuV) |
| 0.15 - 0.50                                   | 66 - 56   | 56 - 46   |
| 0.50 - 5.0                                    | 56        | 46        |
| 5.0 - 30                                      | 60        | 50        |

Note 1: The lower limit shall apply at the transition frequencies.

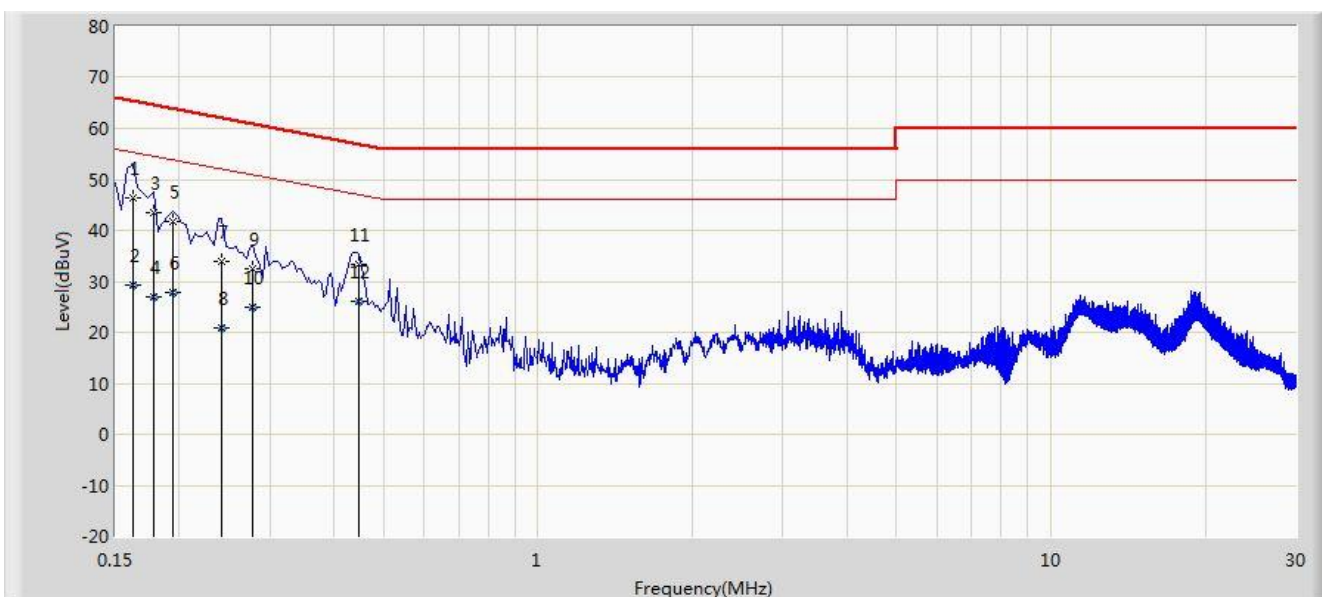
Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

### 7.8.2. Test Setup



### 7.8.3. Test Result

|                                   |                          |
|-----------------------------------|--------------------------|
| Site: SR2                         | Time: 2015/12/16 - 11:38 |
| Limit: FCC_Part15.207_CE_AC Power | Engineer: Vince Yu       |
| Probe: ENV216_101683_Filter On    | Polarity: Line           |
| EUT: Gateway                      | Power: AC 120V/60Hz      |
| Note: Mode 1                      |                          |

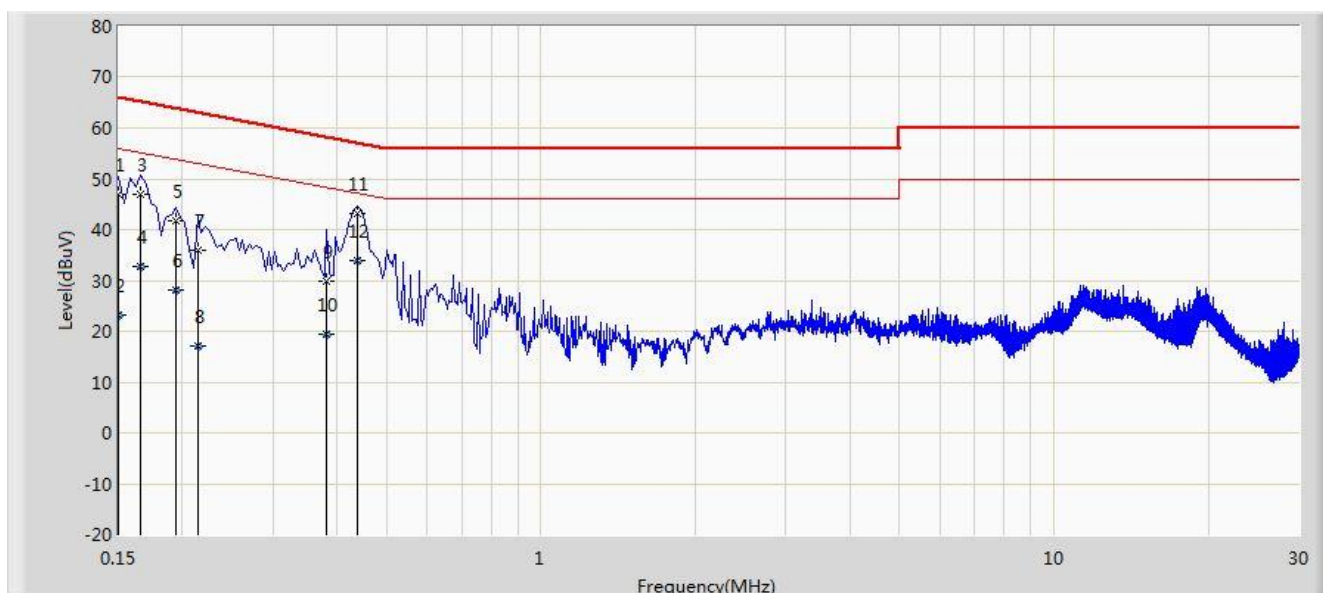


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV) | Factor (dB) | Type |
|----|------|------|-----------------|----------------------|----------------------|-----------------|--------------|-------------|------|
| 1  |      | *    | 0.162           | 46.232               | 36.135               | -19.129         | 65.361       | 10.097      | QP   |
| 2  |      |      | 0.162           | 29.373               | 19.276               | -25.988         | 55.361       | 10.097      | AV   |
| 3  |      |      | 0.178           | 43.572               | 33.514               | -21.006         | 64.578       | 10.058      | QP   |
| 4  |      |      | 0.178           | 27.063               | 17.005               | -27.516         | 54.578       | 10.058      | AV   |
| 5  |      |      | 0.194           | 41.708               | 31.691               | -22.156         | 63.864       | 10.017      | QP   |
| 6  |      |      | 0.194           | 27.831               | 17.814               | -26.032         | 53.864       | 10.017      | AV   |
| 7  |      |      | 0.242           | 33.849               | 23.892               | -28.178         | 62.027       | 9.958       | QP   |
| 8  |      |      | 0.242           | 20.759               | 10.801               | -31.269         | 52.027       | 9.958       | AV   |
| 9  |      |      | 0.278           | 32.468               | 22.482               | -28.407         | 60.875       | 9.986       | QP   |
| 10 |      |      | 0.278           | 25.030               | 15.043               | -25.846         | 50.875       | 9.986       | AV   |
| 11 |      |      | 0.446           | 33.267               | 23.144               | -23.683         | 56.949       | 10.123      | QP   |
| 12 |      |      | 0.446           | 26.162               | 16.039               | -20.787         | 46.949       | 10.123      | AV   |

Note: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)

|                                   |                          |
|-----------------------------------|--------------------------|
| Site: SR2                         | Time: 2015/12/16 - 11:45 |
| Limit: FCC_Part15.207_CE_AC Power | Engineer: Vince Yu       |
| Probe: ENV216_101683_Filter On    | Polarity: Neutral        |
| EUT: Gateway                      | Power: AC 120V/60Hz      |
| Note: Mode 1                      |                          |



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV) | Factor (dB) | Type |
|----|------|------|-----------------|----------------------|----------------------|-----------------|--------------|-------------|------|
| 1  |      |      | 0.150           | 46.826               | 35.684               | -19.174         | 66.000       | 11.142      | QP   |
| 2  |      |      | 0.150           | 23.259               | 12.117               | -32.741         | 56.000       | 11.142      | AV   |
| 3  |      |      | 0.166           | 46.840               | 36.769               | -18.318         | 65.158       | 10.071      | QP   |
| 4  |      |      | 0.166           | 32.849               | 22.778               | -22.309         | 55.158       | 10.071      | AV   |
| 5  |      |      | 0.194           | 41.667               | 31.646               | -22.196         | 63.864       | 10.021      | QP   |
| 6  |      |      | 0.194           | 28.226               | 18.204               | -25.638         | 53.864       | 10.021      | AV   |
| 7  |      |      | 0.214           | 35.951               | 25.963               | -27.098         | 63.049       | 9.988       | QP   |
| 8  |      |      | 0.214           | 17.231               | 7.243                | -35.818         | 53.049       | 9.988       | AV   |
| 9  |      |      | 0.382           | 29.814               | 19.715               | -28.422         | 58.236       | 10.099      | QP   |
| 10 |      |      | 0.382           | 19.281               | 9.182                | -28.955         | 48.236       | 10.099      | AV   |
| 11 |      |      | 0.438           | 43.260               | 33.119               | -13.840         | 57.100       | 10.141      | QP   |
| 12 |      | *    | 0.438           | 33.905               | 23.764               | -13.195         | 47.100       | 10.141      | AV   |

Note: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)

## 8. CONCLUSION

The data collected relate only the item(s) tested and show that the **Gateway FCC ID:**

**H8N-RG8000W** is in compliance with Part 15C of the FCC Rules.