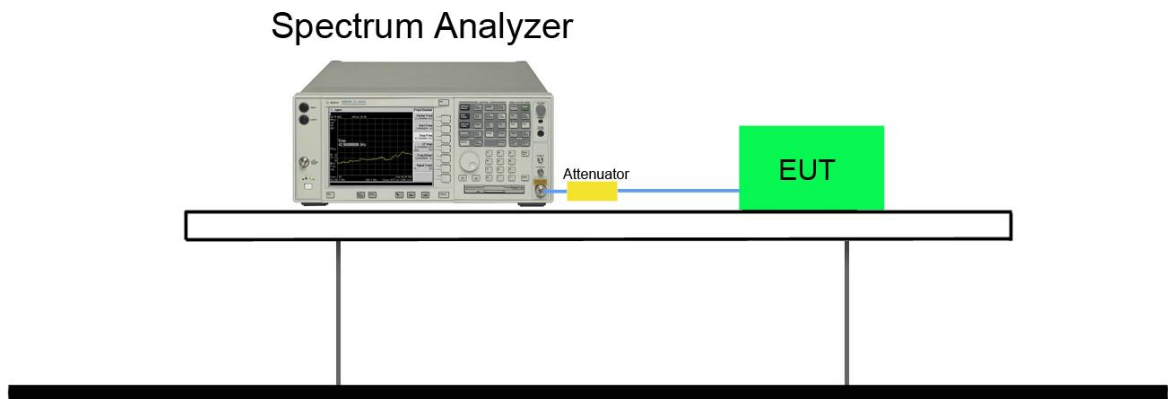


#### 7.7.4. Test Setup

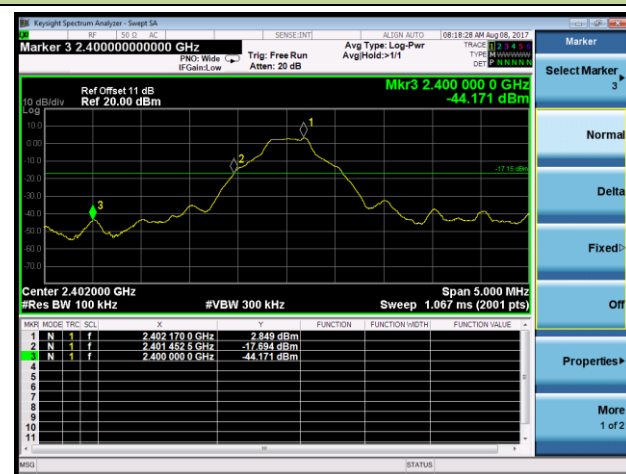


### 7.7.5. Test Result

| Test Mode | Channel No. | Frequency (MHz) | Limit | Result |
|-----------|-------------|-----------------|-------|--------|
| DH5       | 00          | 2402            | 20dBc | Pass   |
| DH5       | 78          | 2480            | 20dBc | Pass   |
| 2DH5      | 00          | 2402            | 20dBc | Pass   |
| 2DH5      | 78          | 2480            | 20dBc | Pass   |
| 3DH5      | 00          | 2402            | 20dBc | Pass   |
| 3DH5      | 78          | 2480            | 20dBc | Pass   |

### DH5 Band-edge Compliance

#### Channel 00 (2402MHz)

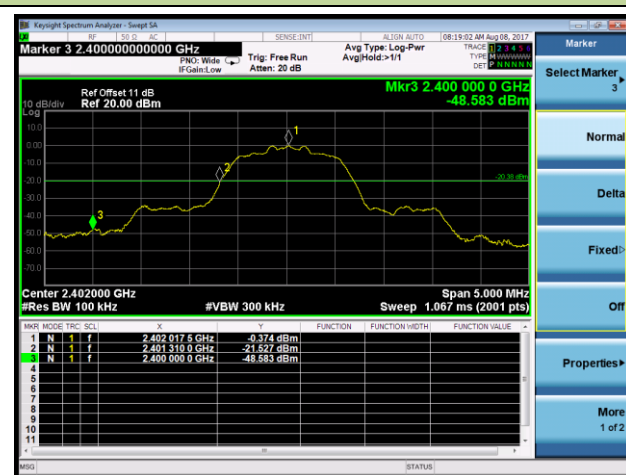


#### Channel 78 (2480MHz)

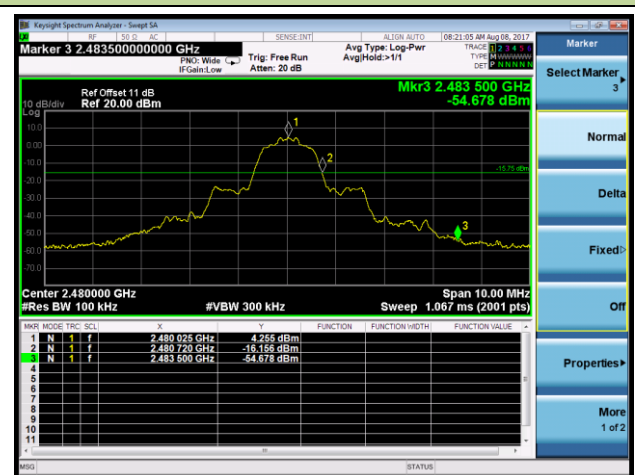


### 2DH5 Band-edge Compliance

#### Channel 00 (2402MHz)



#### Channel 78 (2480MHz)



### 3DH5 Band-edge Compliance

#### Channel 00 (2402MHz)

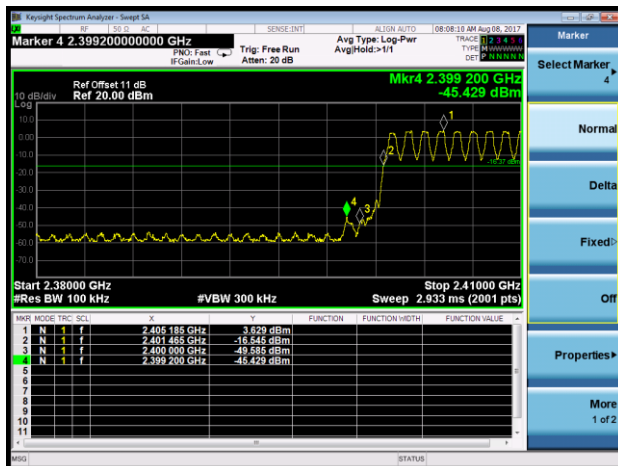


#### Channel 78 (2480MHz)

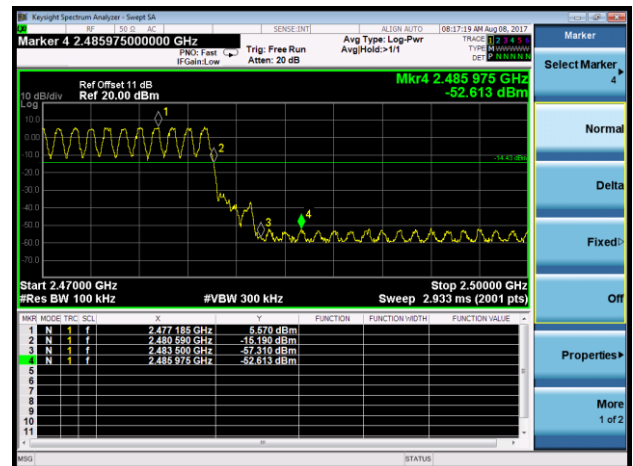


### DH5 Operation Frequency Range of 20dB Bandwidth within Hopping Mode

#### Channel 00 (2402MHz)

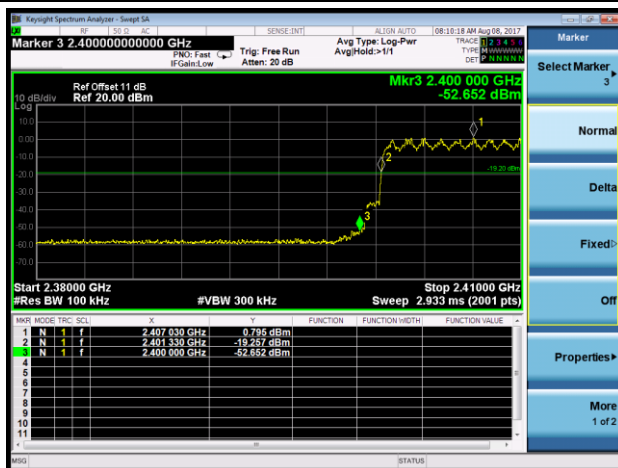


#### Channel 78 (2480MHz)

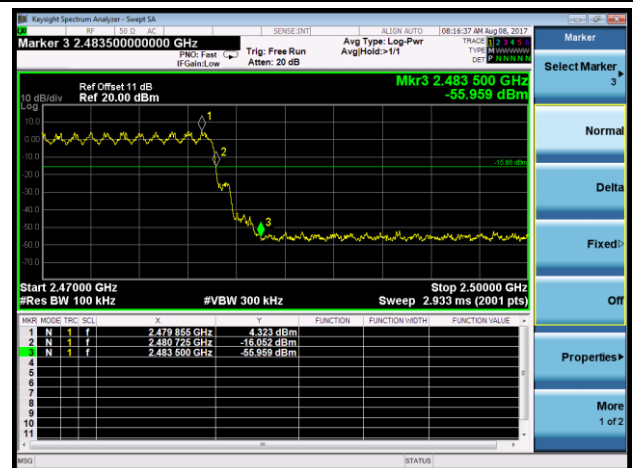


### 2DH5 Operation Frequency Range of 20dB Bandwidth within Hopping Mode

#### Channel 00 (2402MHz)

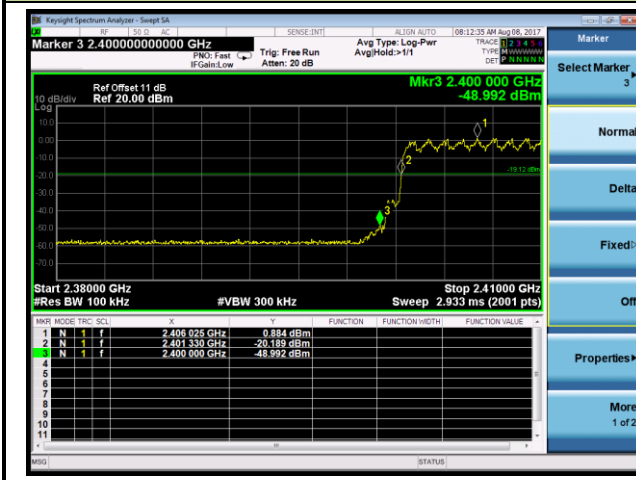


#### Channel 78 (2480MHz)

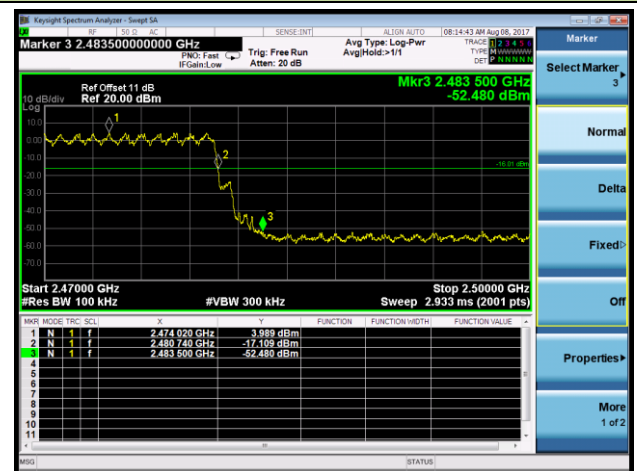


## DH5 Operation Frequency Range of 20dB Bandwidth within Hopping Mode

### Channel 00 (2402MHz)



### Channel 78 (2480MHz)



## **7.8. Conducted Spurious Emissions Measurement**

### **7.8.1. Test Limit**

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

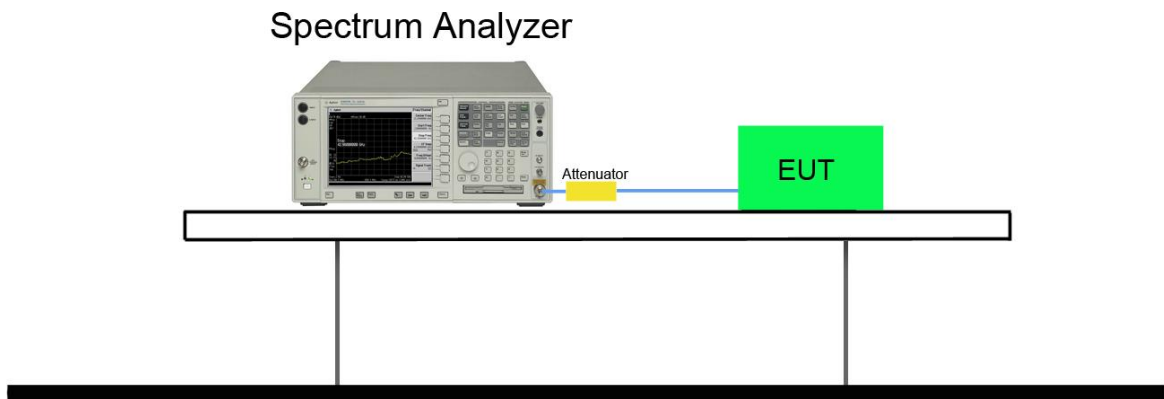
### **7.8.2. Test Procedure Used**

ANSI C63.10-2013 - Section 7.8.8

### **7.8.3. Test Setting**

1. Span = wide enough to capture the peak level of the in-band emission and all spurious emissions (e.g., harmonics) from the lowest frequency generated in the EUT up through the 10th harmonic.  
Typically, several plots are required to cover this entire span.
2. RBW = 100 KHz
3. VBW  $\geq$  RBW
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize
8. Set the marker on the peak of any spurious emission recorded. The level displayed must comply with the limit specified in this section.

#### 7.8.4.Test Setup

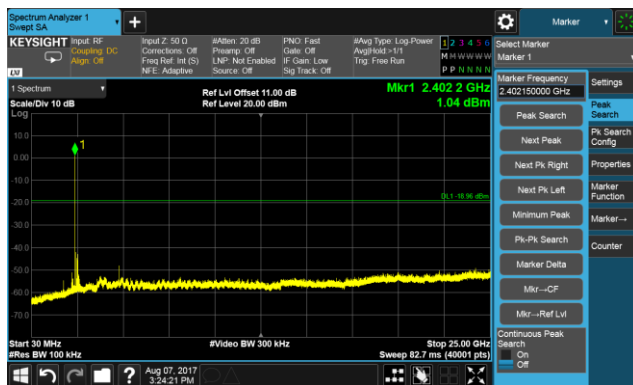


### 7.8.5. Test Result

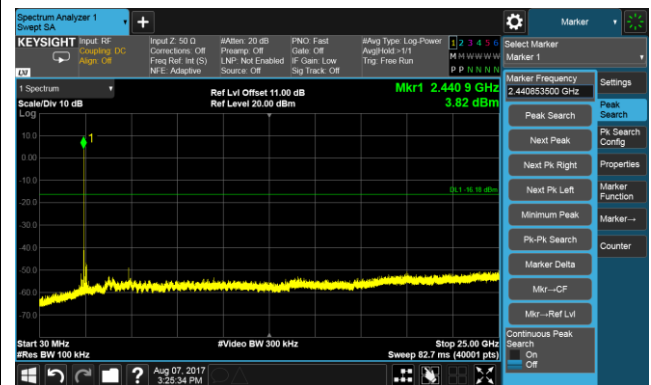
| Test Mode | Channel No. | Frequency (MHz) | Limit (MHz) | Result |
|-----------|-------------|-----------------|-------------|--------|
| DH5       | 00          | 2402            | 20dBc       | Pass   |
| DH5       | 39          | 2441            | 20dBc       | Pass   |
| DH5       | 78          | 2480            | 20dBc       | Pass   |
| 2DH5      | 00          | 2402            | 20dBc       | Pass   |
| 2DH5      | 39          | 2441            | 20dBc       | Pass   |
| 2DH5      | 78          | 2480            | 20dBc       | Pass   |
| 3DH5      | 00          | 2402            | 20dBc       | Pass   |
| 3DH5      | 39          | 2441            | 20dBc       | Pass   |
| 3DH5      | 78          | 2480            | 20dBc       | Pass   |

### DH5 Conducted Spurious Emissions

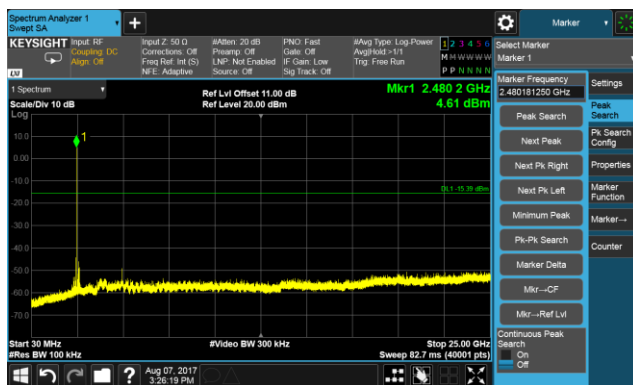
#### Channel 00 (2402MHz)



#### Channel 39 (2441MHz)

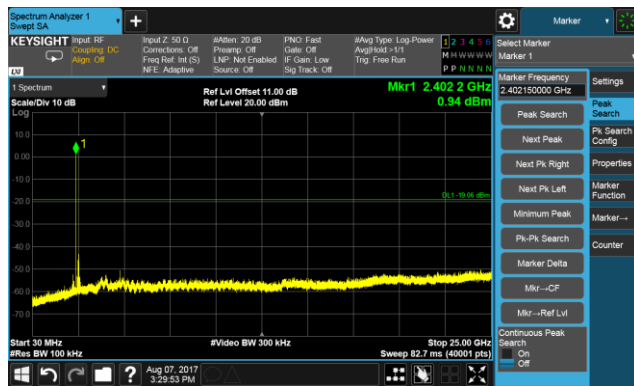


#### Channel 78 (2480MHz)

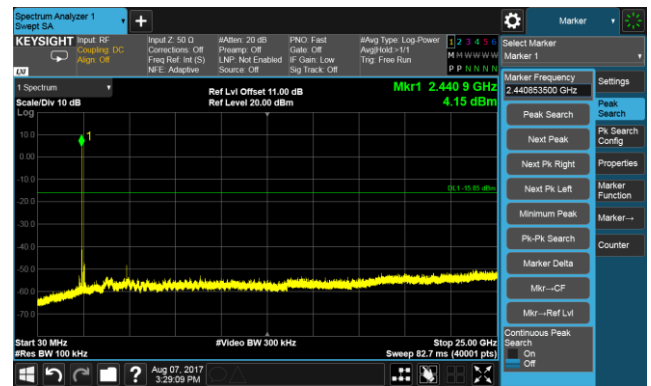


## 2DH5 Conducted Spurious Emissions

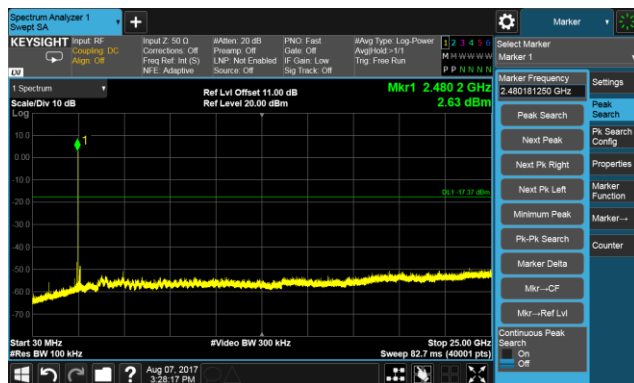
### Channel 00 (2402MHz)



### Channel 39 (2441MHz)

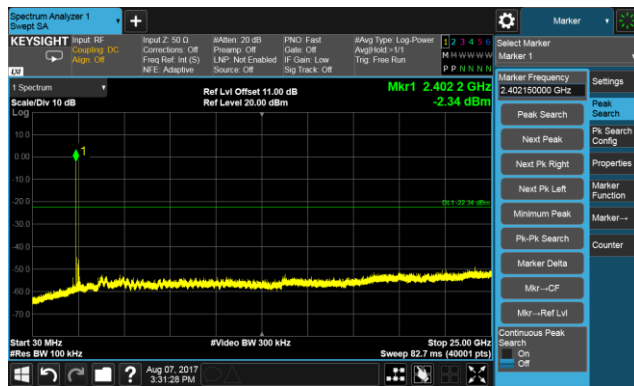


### Channel 78 (2480MHz)

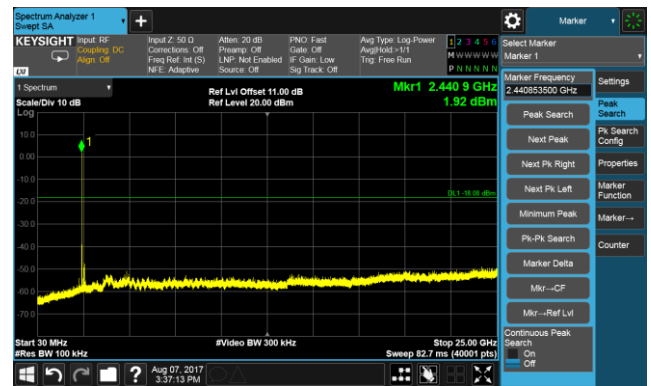


### 3DH5 Conducted Spurious Emissions

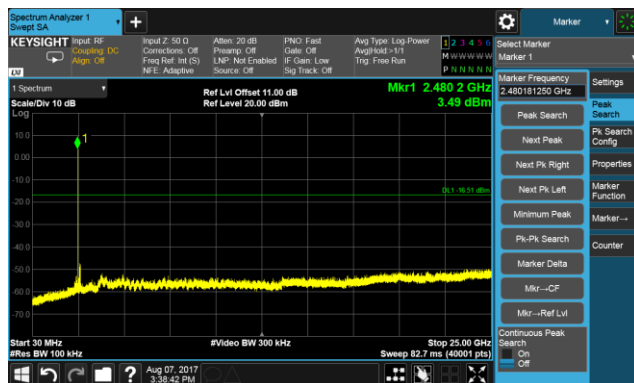
#### Channel 00 (2402MHz)



#### Channel 39 (2441MHz)



#### Channel 78 (2480MHz)



## 7.9. Radiated Spurious Emission Measurement

### 7.9.1. 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>[uV/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                             |

### 7.9.2. Test Procedure Used

ANSI C63.10-2013 - Section 11.12.1

### 7.9.3. 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 = 3 \* RBW
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**

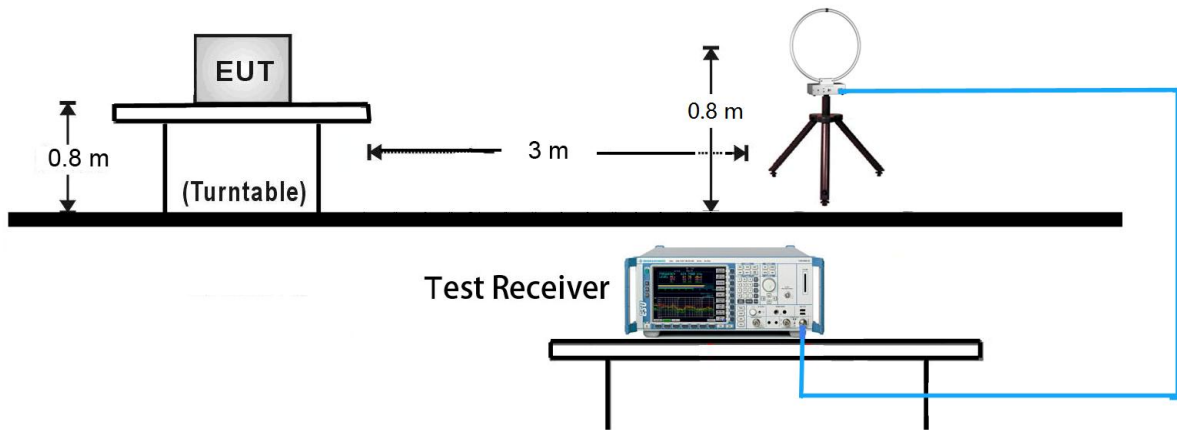
| Frequency     | RBW           |
|---------------|---------------|
| 9 ~ 150 kHz   | 200 ~ 300 Hz  |
| 0.15 ~ 30 MHz | 9 ~ 10 kHz    |
| 30 ~ 1000 MHz | 100 ~ 120 kHz |
| > 1000 MHz    | 1 MHz         |

**Average Field Strength Measurements**

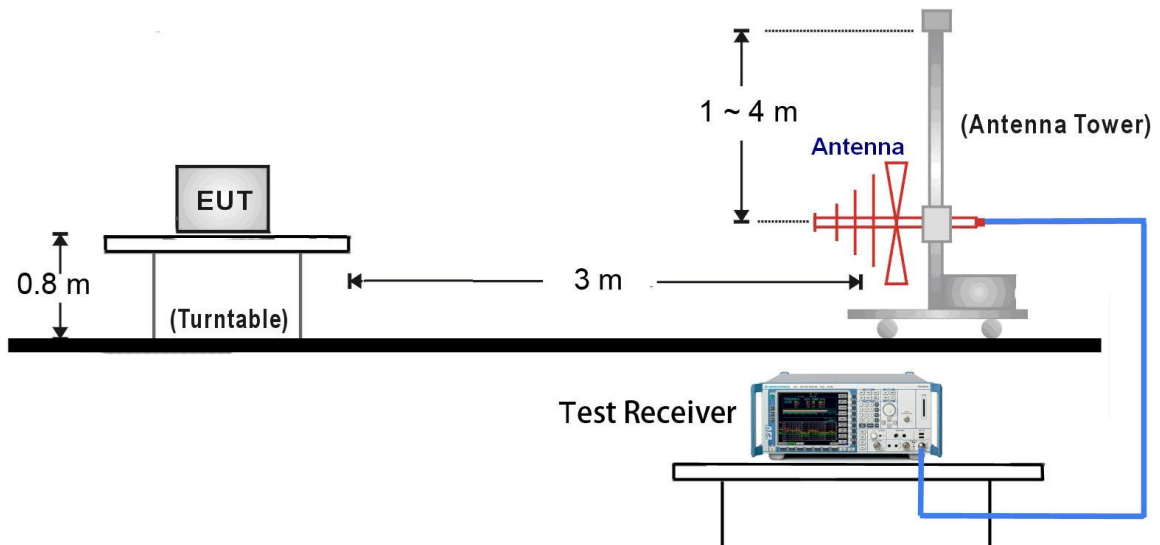
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW  $\geq 1/T$
4. De As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB 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

#### 7.9.4. Test Setup

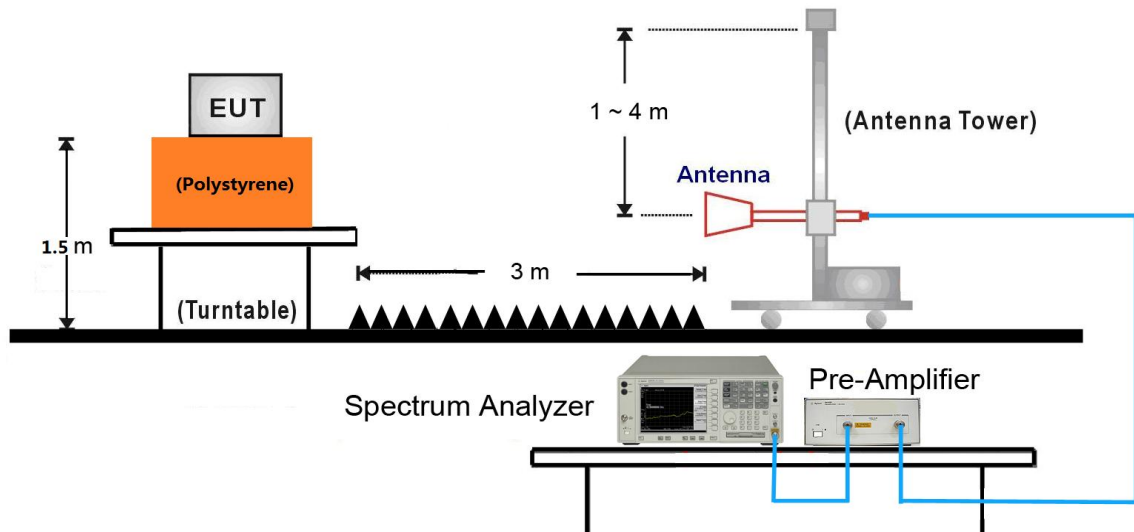
##### 9kHz ~ 30MHz Test Setup:



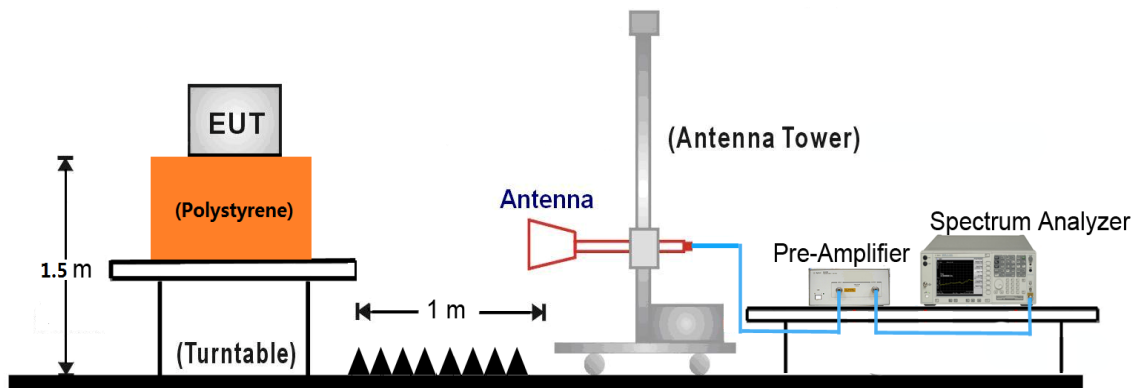
##### 30MHz ~ 1GHz Test Setup:



### 1GHz ~ 18GHz Test Setup:



### 18GHz ~ 25GHz Test Setup:



### 7.9.5. Test Result

|               |                                                                                                                                                                                   |                |            |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------------|
| Test Mode:    | DH5                                                                                                                                                                               | Test Site:     | AC1        |
| Test Channel: | 00                                                                                                                                                                                | Test Engineer: | Bruce Wang |
| 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 |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 4808.0          | 47.2                 | 2.7         | 49.9                   | 74.0           | -24.1       | Peak     | Horizontal   |
| *    | 7205.0          | 40.2                 | 7.8         | 48.0                   | 78.5           | -30.5       | Peak     | Horizontal   |
|      | 11047.0         | 35.7                 | 12.9        | 48.6                   | 74.0           | -25.4       | Peak     | Horizontal   |
| *    | 14132.5         | 35.9                 | 15.3        | 51.2                   | 78.5           | -27.3       | Peak     | Horizontal   |
|      | 4808.0          | 45.9                 | 2.7         | 48.6                   | 74.0           | -25.4       | Peak     | Vertical     |
| *    | 7205.0          | 41.2                 | 7.8         | 49.0                   | 78.5           | -29.5       | Peak     | Vertical     |
|      | 10783.5         | 35.3                 | 12.6        | 47.9                   | 74.0           | -26.1       | Peak     | Vertical     |
| *    | 13741.5         | 36.7                 | 14.2        | 50.9                   | 78.5           | -27.6       | Peak     | Vertical     |

Note 1: "\*" is not in restricted band, its limit is 20dBc of the fundamental emission level (98.5dBμV/m) or 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:    | DH5                                                                                                                                                                               | Test Site:     | AC1        |
| Test channel: | 39                                                                                                                                                                                | Test Engineer: | Bruce Wang |
| 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 |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 4884.5          | 45.8                 | 2.7         | 48.5                   | 74.0           | -25.5       | Peak     | Horizontal   |
|      | 7324.0          | 42.9                 | 8.0         | 50.9                   | 74.0           | -23.1       | Peak     | Horizontal   |
| *    | 9721.0          | 36.2                 | 11.1        | 47.3                   | 79.0           | -31.7       | Peak     | Horizontal   |
| *    | 13724.5         | 36.1                 | 14.1        | 50.2                   | 79.0           | -28.8       | Peak     | Horizontal   |
|      | 4884.5          | 45.3                 | 2.7         | 48.0                   | 74.0           | -26.0       | Peak     | Vertical     |
|      | 7324.0          | 43.0                 | 8.0         | 51.0                   | 74.0           | -23.0       | Peak     | Vertical     |
| *    | 9559.5          | 36.1                 | 10.9        | 47.0                   | 79.0           | -32.0       | Peak     | Vertical     |
| *    | 13852.0         | 36.5                 | 14.5        | 51.0                   | 79.0           | -28.0       | Peak     | Vertical     |

Note 1: “\*” is not in restricted band, its limit is 20dBc of the fundamental emission level (99.0dBμV/m) or 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:    | DH5                                                                                                                                                                               | Test Site:     | AC1        |
| Test channel: | 78                                                                                                                                                                                | Test Engineer: | Bruce Wang |
| 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 |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 4961.0          | 46.0                 | 2.9         | 48.9                   | 74.0           | -25.1       | Peak     | Horizontal   |
|      | 7443.0          | 42.4                 | 8.0         | 50.4                   | 74.0           | -23.6       | Peak     | Horizontal   |
| *    | 10171.5         | 34.4                 | 11.7        | 46.1                   | 80.8           | -34.7       | Peak     | Horizontal   |
| *    | 13733.0         | 36.3                 | 14.2        | 50.5                   | 80.8           | -30.3       | Peak     | Horizontal   |
|      | 4961.0          | 44.1                 | 2.9         | 47.0                   | 74.0           | -27.0       | Peak     | Vertical     |
|      | 7443.0          | 43.0                 | 8.0         | 51.0                   | 74.0           | -23.0       | Peak     | Vertical     |
| *    | 10358.5         | 35.0                 | 12.2        | 47.2                   | 80.8           | -33.6       | Peak     | Vertical     |
| *    | 13520.5         | 34.8                 | 13.8        | 48.6                   | 80.8           | -32.2       | Peak     | Vertical     |

Note 1: “\*” is not in restricted band, its limit is 20dBc of the fundamental emission level (100.8dBμV/m) or 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:    | 2DH5                                                                                                                                                                              | Test Site:     | AC1        |
| Test channel: | 00                                                                                                                                                                                | Test Engineer: | Bruce Wang |
| 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 |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 4808.0          | 43.6                 | 2.7         | 46.3                   | 74.0           | -27.7       | Peak     | Horizontal   |
| *    | 7205.0          | 37.2                 | 7.8         | 45.0                   | 74.8           | -29.8       | Peak     | Horizontal   |
|      | 11030.0         | 35.5                 | 13.0        | 48.5                   | 74.0           | -25.5       | Peak     | Horizontal   |
| *    | 13699.0         | 35.9                 | 14.0        | 49.9                   | 74.8           | -24.9       | Peak     | Horizontal   |
|      | 4799.5          | 41.5                 | 2.7         | 44.2                   | 74.0           | -29.8       | Peak     | Vertical     |
| *    | 7205.0          | 37.7                 | 7.8         | 45.5                   | 74.8           | -29.3       | Peak     | Vertical     |
|      | 10690.0         | 35.0                 | 12.4        | 47.4                   | 74.0           | -26.6       | Peak     | Vertical     |
| *    | 13801.0         | 35.7                 | 14.4        | 50.1                   | 74.8           | -24.7       | Peak     | Vertical     |

Note 1: “\*” is not in restricted band, its limit is 20dBc of the fundamental emission level (94.8dBμV/m) or 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:    | 2DH5                                                                                                                                                                              | Test Site:     | AC1        |
| Test channel: | 39                                                                                                                                                                                | Test Engineer: | Bruce Wang |
| 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 |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 4884.5          | 42.8                 | 2.7         | 45.5                   | 74.0           | -28.5       | Peak     | Horizontal   |
|      | 7324.0          | 38.5                 | 8.0         | 46.5                   | 74.0           | -27.5       | Peak     | Horizontal   |
| *    | 10307.5         | 33.1                 | 12.0        | 45.1                   | 76.0           | -30.9       | Peak     | Horizontal   |
| *    | 14022.0         | 35.3                 | 14.9        | 50.2                   | 76.0           | -25.8       | Peak     | Horizontal   |
|      | 4884.5          | 41.8                 | 2.7         | 44.5                   | 74.0           | -29.5       | Peak     | Vertical     |
|      | 7324.0          | 39.3                 | 8.0         | 47.3                   | 74.0           | -26.7       | Peak     | Vertical     |
| *    | 10163.0         | 34.8                 | 11.7        | 46.5                   | 76.0           | -29.5       | Peak     | Vertical     |
| *    | 13843.5         | 36.3                 | 14.5        | 50.8                   | 76.0           | -25.2       | Peak     | Vertical     |

Note 1: “\*” is not in restricted band, its limit is 20dBc of the fundamental emission level (96.0dBμV/m) or 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:    | 2DH5                                                                                                                                                                              | Test Site:     | AC1        |
| Test channel: | 78                                                                                                                                                                                | Test Engineer: | Bruce Wang |
| 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 |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 4961.0          | 39.6                 | 2.9         | 42.5                   | 74.0           | -31.5       | Peak     | Horizontal   |
|      | 7443.0          | 39.0                 | 8.0         | 47.0                   | 74.0           | -27.0       | Peak     | Horizontal   |
| *    | 10299.0         | 34.8                 | 12.0        | 46.8                   | 79.0           | -32.2       | Peak     | Horizontal   |
| *    | 13665.0         | 34.3                 | 13.9        | 48.2                   | 79.0           | -30.8       | Peak     | Horizontal   |
|      | 4961.0          | 39.4                 | 2.9         | 42.3                   | 74.0           | -31.7       | Peak     | Vertical     |
|      | 7443.0          | 38.8                 | 8.0         | 46.8                   | 74.0           | -27.2       | Peak     | Vertical     |
| *    | 11404.0         | 36.2                 | 12.6        | 48.8                   | 79.0           | -30.2       | Peak     | Vertical     |
| *    | 13928.5         | 35.7                 | 14.7        | 50.4                   | 79.0           | -28.6       | Peak     | Vertical     |

Note 1: “\*” is not in restricted band, its limit is 20dBc of the fundamental emission level (99.0dBμV/m) or 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:    | 3DH5                                                                                                                                                                              | Test Site:     | AC1        |
| Test channel: | 00                                                                                                                                                                                | Test Engineer: | Bruce Wang |
| 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 |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 4799.5          | 43.0                 | 2.7         | 45.7                   | 74.0           | -28.3       | Peak     | Horizontal   |
|      | 7545.0          | 36.2                 | 8.3         | 44.5                   | 74.0           | -29.5       | Peak     | Horizontal   |
| *    | 10333.0         | 35.2                 | 12.2        | 47.4                   | 75.1           | -27.7       | Peak     | Horizontal   |
| *    | 14166.5         | 35.7                 | 15.3        | 51.0                   | 75.1           | -24.1       | Peak     | Horizontal   |
|      | 4808.0          | 41.3                 | 2.7         | 44.0                   | 74.0           | -30.0       | Peak     | Vertical     |
|      | 7205.0          | 37.6                 | 7.8         | 45.4                   | 75.1           | -29.7       | Peak     | Vertical     |
| *    | 10962.0         | 34.9                 | 13.1        | 48.0                   | 74.0           | -26.0       | Peak     | Vertical     |
| *    | 13622.5         | 36.4                 | 13.9        | 50.3                   | 75.1           | -24.8       | Peak     | Vertical     |

Note 1: “\*” is not in restricted band, its limit is 20dBc of the fundamental emission level (95.1dBμV/m) or 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:    | 3DH5                                                                                                                                                                              | Test Site:     | AC1        |
| Test channel: | 39                                                                                                                                                                                | Test Engineer: | Bruce Wang |
| 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 |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 4884.5          | 45.5                 | 2.7         | 48.2                   | 74.0           | -25.8       | Peak     | Horizontal   |
|      | 7324.0          | 42.7                 | 8.0         | 50.7                   | 74.0           | -23.3       | Peak     | Horizontal   |
| *    | 9763.5          | 36.0                 | 11.4        | 47.4                   | 77.0           | -29.6       | Peak     | Horizontal   |
| *    | 13750.0         | 35.6                 | 14.2        | 49.8                   | 77.0           | -27.2       | Peak     | Horizontal   |
|      | 4884.5          | 44.9                 | 2.7         | 47.6                   | 74.0           | -26.4       | Peak     | Vertical     |
|      | 7324.0          | 41.4                 | 8.0         | 49.4                   | 74.0           | -24.6       | Peak     | Vertical     |
| *    | 10095.0         | 35.1                 | 11.6        | 46.7                   | 77.0           | -30.3       | Peak     | Vertical     |
| *    | 13801.0         | 36.2                 | 14.4        | 50.6                   | 77.0           | -26.4       | Peak     | Vertical     |

Note 1: “\*” is not in restricted band, its limit is 20dBc of the fundamental emission level (97.0dBμV/m) or 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:    | 3DH5                                                                                                                                                                              | Test Site:     | AC1        |
| Test channel: | 78                                                                                                                                                                                | Test Engineer: | Bruce Wang |
| 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 |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 4961.0          | 45.7                 | 2.9         | 48.6                   | 74.0           | -25.4       | Peak     | Horizontal   |
|      | 7443.0          | 42.6                 | 8.0         | 50.6                   | 74.0           | -23.4       | Peak     | Horizontal   |
| *    | 10273.5         | 35.6                 | 12.0        | 47.6                   | 79.2           | -31.6       | Peak     | Horizontal   |
| *    | 13733.0         | 37.2                 | 14.2        | 51.4                   | 79.2           | -27.8       | Peak     | Horizontal   |
|      | 4961.0          | 42.5                 | 2.9         | 45.4                   | 74.0           | -28.6       | Peak     | Vertical     |
|      | 7443.0          | 42.6                 | 8.0         | 50.6                   | 74.0           | -23.4       | Peak     | Vertical     |
| *    | 10163.0         | 35.4                 | 11.7        | 47.1                   | 79.2           | -32.1       | Peak     | Vertical     |
| *    | 13988.0         | 35.2                 | 14.9        | 50.1                   | 79.2           | -29.1       | Peak     | Vertical     |

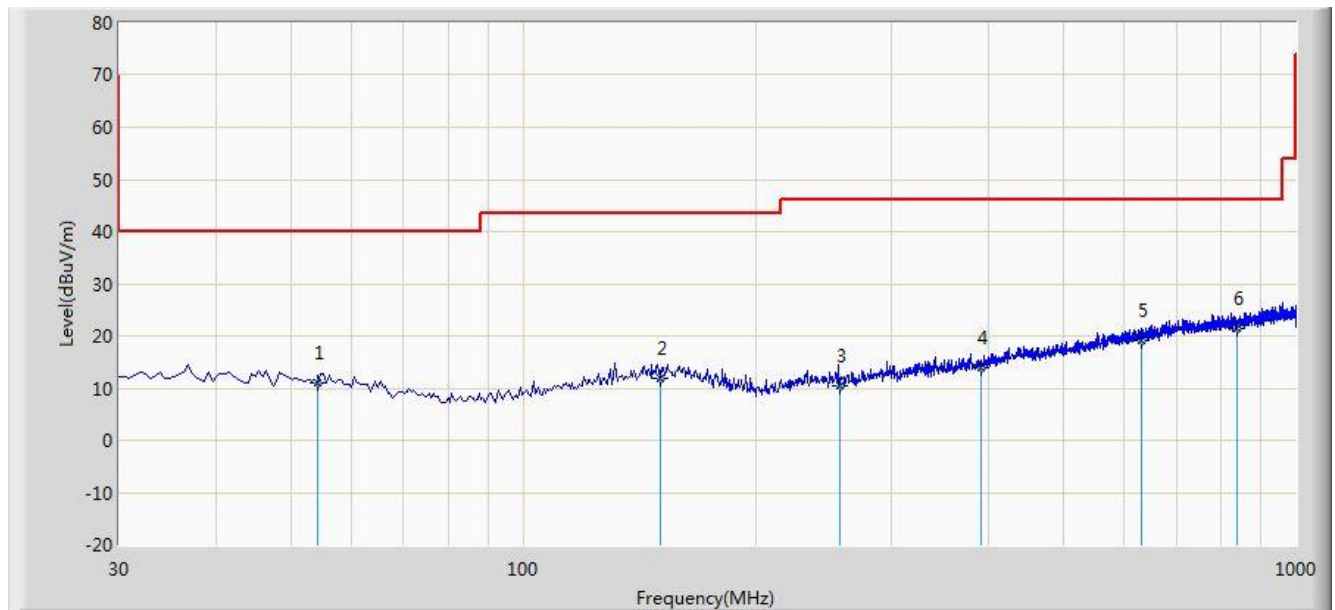
Note 1: “\*” is not in restricted band, its limit is 20dBc of the fundamental emission level (99.2dBμV/m) or 15.209 which is higher.

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 30MHz ~ 1GHz:

|                                                            |                          |
|------------------------------------------------------------|--------------------------|
| Site: AC1                                                  | Time: 2017/09/02 - 21:54 |
| Limit: FCC_Part15.209_RE(3m)                               | Engineer: Lewis Huang    |
| Probe: VULB 9168 _20-2000MHz                               | Polarity: Horizontal     |
| EUT: E20                                                   | Power: AC 120V/60Hz      |
| <b>Worst Case Mode:</b> Transmit by DH5 at channel 2402MHz |                          |



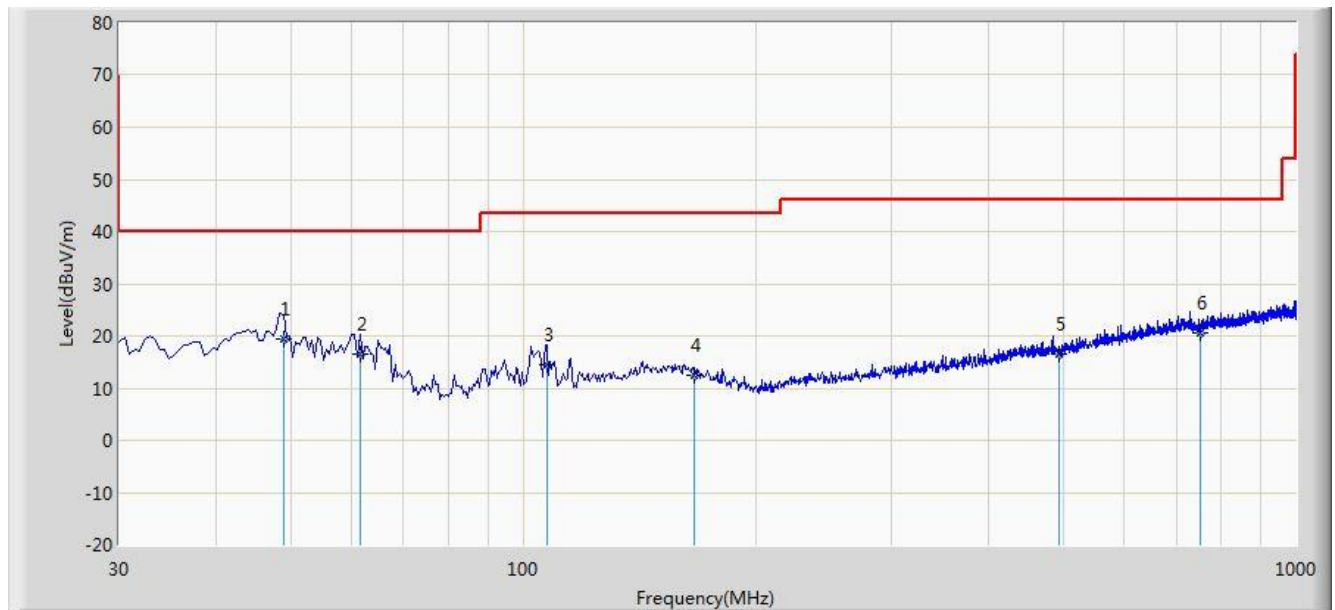
| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      |      | 54.250          | 10.959                 | -2.804               | -29.041         | 40.000         | 13.763      | QP   |
| 2  |      |      | 150.765         | 11.820                 | -3.362               | -31.680         | 43.500         | 15.182      | QP   |
| 3  |      |      | 256.980         | 10.481                 | -2.587               | -35.519         | 46.000         | 13.068      | QP   |
| 4  |      |      | 391.325         | 13.866                 | -2.460               | -32.134         | 46.000         | 16.325      | QP   |
| 5  |      |      | 630.915         | 19.091                 | -2.006               | -26.909         | 46.000         | 21.097      | QP   |
| 6  |      | *    | 840.920         | 21.406                 | -2.162               | -24.594         | 46.000         | 23.568      | QP   |

Note 1: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

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

Note 2: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 25GHz), therefore no data appear in the report.

|                                                            |                          |
|------------------------------------------------------------|--------------------------|
| Site: AC1                                                  | Time: 2017/09/02 - 21:56 |
| Limit: FCC_Part15.209_RE(3m)                               | Engineer: Lewis Huang    |
| Probe: VULB 9168 _20-2000MHz                               | Polarity: Vertical       |
| EUT: E20                                                   | Power: AC 120V/60Hz      |
| <b>Worst Case Mode:</b> Transmit by DH5 at channel 2402MHz |                          |



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      | *    | 48.915          | 19.457                 | 5.360                | -20.543         | 40.000         | 14.097      | QP   |
| 2  |      |      | 61.525          | 16.619                 | 3.540                | -23.381         | 40.000         | 13.079      | QP   |
| 3  |      |      | 107.600         | 14.370                 | 2.630                | -29.130         | 43.500         | 11.740      | QP   |
| 4  |      |      | 166.770         | 12.410                 | -2.154               | -31.090         | 43.500         | 14.564      | QP   |
| 5  |      |      | 494.630         | 16.481                 | -1.923               | -29.519         | 46.000         | 18.404      | QP   |
| 6  |      |      | 751.195         | 20.715                 | -2.015               | -25.285         | 46.000         | 22.730      | QP   |

Note 1: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

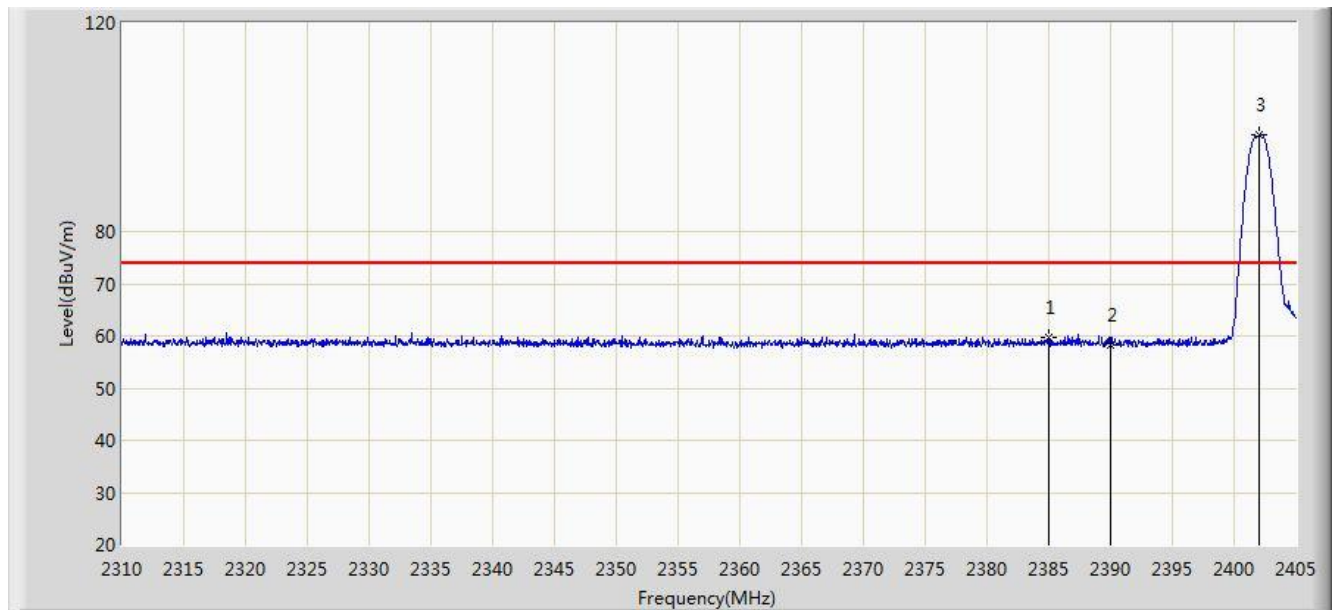
Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 25GHz), therefore no data appear in the report.

## 7.10. Radiated Restricted Band Edge Measurement

### 7.10.1. Test Result

|                                               |                          |
|-----------------------------------------------|--------------------------|
| Site: AC1                                     | Time: 2017/08/09 - 05:33 |
| Limit: FCC_Part15.209_RE(3m)                  | Engineer: Alex Ma        |
| Probe: BBHA9120D_1-18GHz                      | Polarity: Horizontal     |
| EUT: E20                                      | Power: AC 120V/60Hz      |
| Test Mode: Transmit by DH5 at channel 2402MHz |                          |

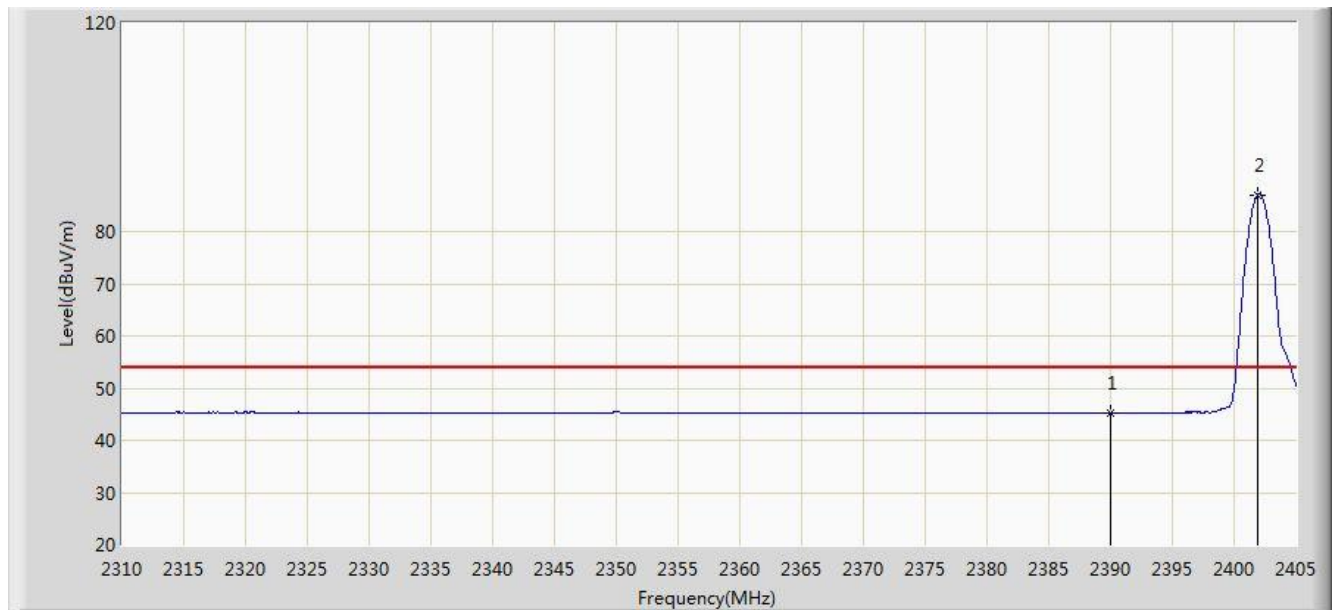


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      |      | 2384.955        | 59.838                 | 28.626               | -14.162         | 74.000         | 31.212      | PK   |
| 2  |      |      | 2390.000        | 58.384                 | 27.181               | -15.616         | 74.000         | 31.203      | PK   |
| 3  |      | *    | 2402.008        | 98.459                 | 67.275               | 24.459          | 74.000         | 31.184      | PK   |

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

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

|                                               |                          |
|-----------------------------------------------|--------------------------|
| Site: AC1                                     | Time: 2017/08/09 - 05:42 |
| Limit: FCC_Part15.209_RE(3m)                  | Engineer: Alex Ma        |
| Probe: BBHA9120D_1-18GHz                      | Polarity: Horizontal     |
| EUT: E20                                      | Power: AC 120V/60Hz      |
| Test Mode: Transmit by DH5 at channel 2402MHz |                          |

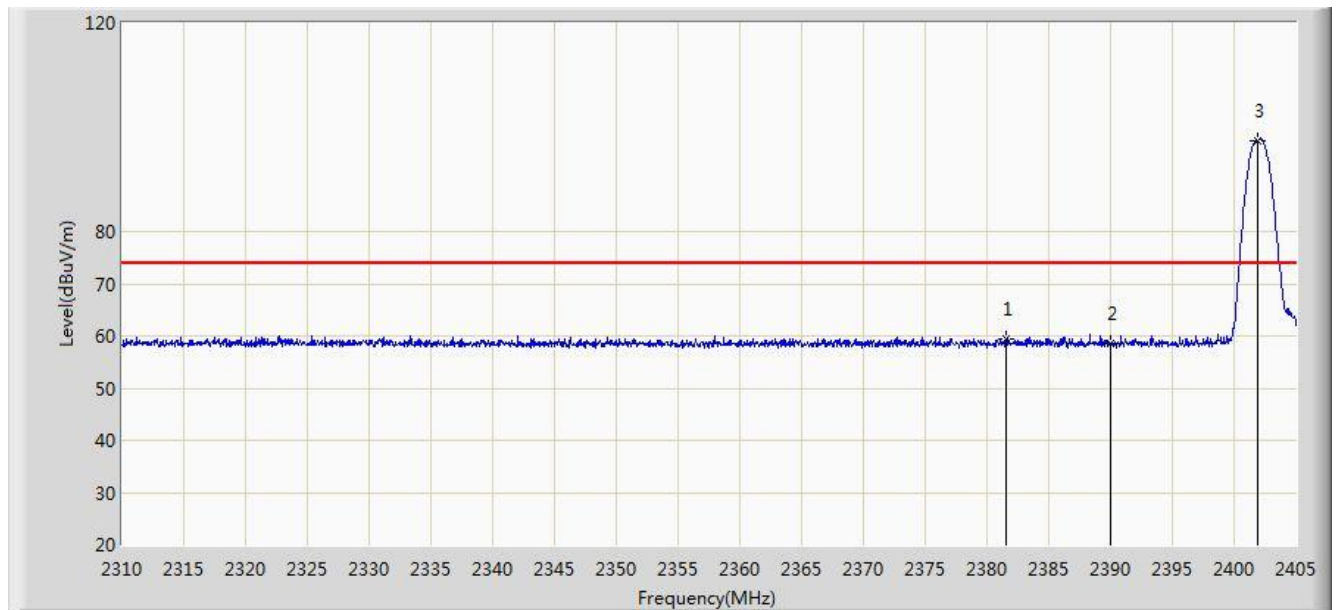


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      |      | 2390.000        | 45.300                 | 14.097               | -8.700          | 54.000         | 31.203      | AV   |
| 2  |      | *    | 2401.913        | 87.029                 | 55.845               | 33.029          | 54.000         | 31.184      | AV   |

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

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

|                                               |                          |
|-----------------------------------------------|--------------------------|
| Site: AC1                                     | Time: 2017/08/09 - 05:42 |
| Limit: FCC_Part15.209_RE(3m)                  | Engineer: Alex Ma        |
| Probe: BBHA9120D_1-18GHz                      | Polarity: Vertical       |
| EUT: E20                                      | Power: AC 120V/60Hz      |
| Test Mode: Transmit by DH5 at channel 2402MHz |                          |

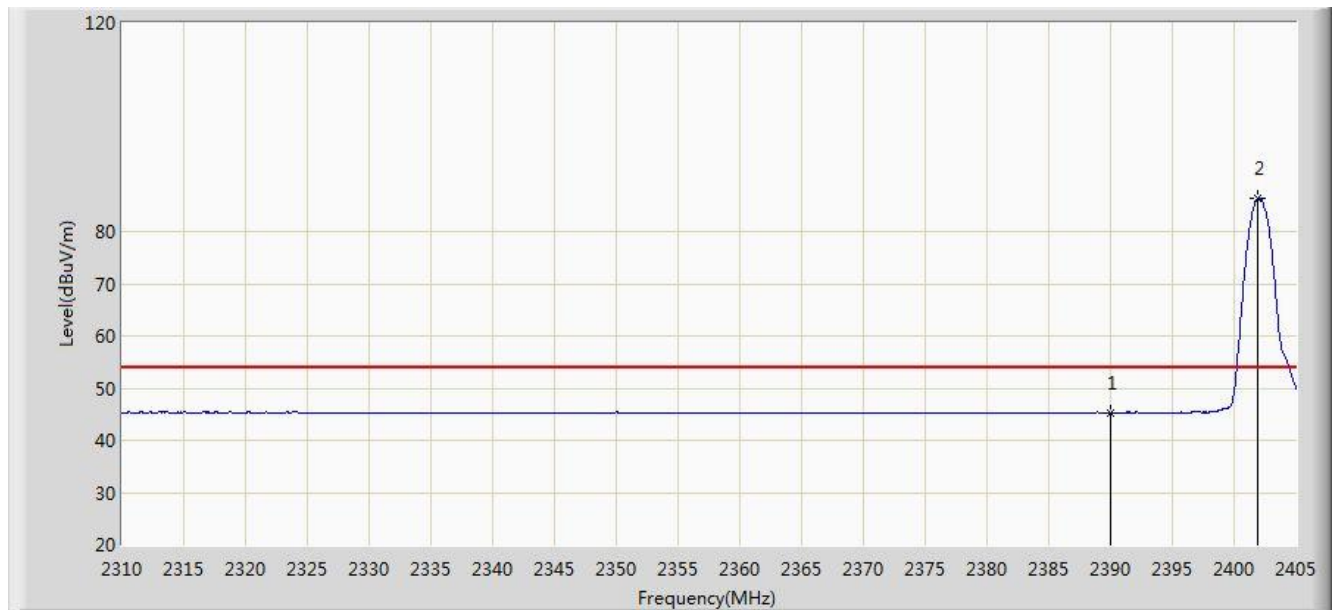


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      |      | 2381.535        | 59.391                 | 28.173               | -14.609         | 74.000         | 31.218      | PK   |
| 2  |      |      | 2390.000        | 58.556                 | 27.353               | -15.444         | 74.000         | 31.203      | PK   |
| 3  |      | *    | 2401.960        | 97.518                 | 66.334               | 23.518          | 74.000         | 31.184      | PK   |

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

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

|                                               |                          |
|-----------------------------------------------|--------------------------|
| Site: AC1                                     | Time: 2017/08/09 - 05:45 |
| Limit: FCC_Part15.209_RE(3m)                  | Engineer: Alex Ma        |
| Probe: BBHA9120D_1-18GHz                      | Polarity: Vertical       |
| EUT: E20                                      | Power: AC 120V/60Hz      |
| Test Mode: Transmit by DH5 at channel 2402MHz |                          |

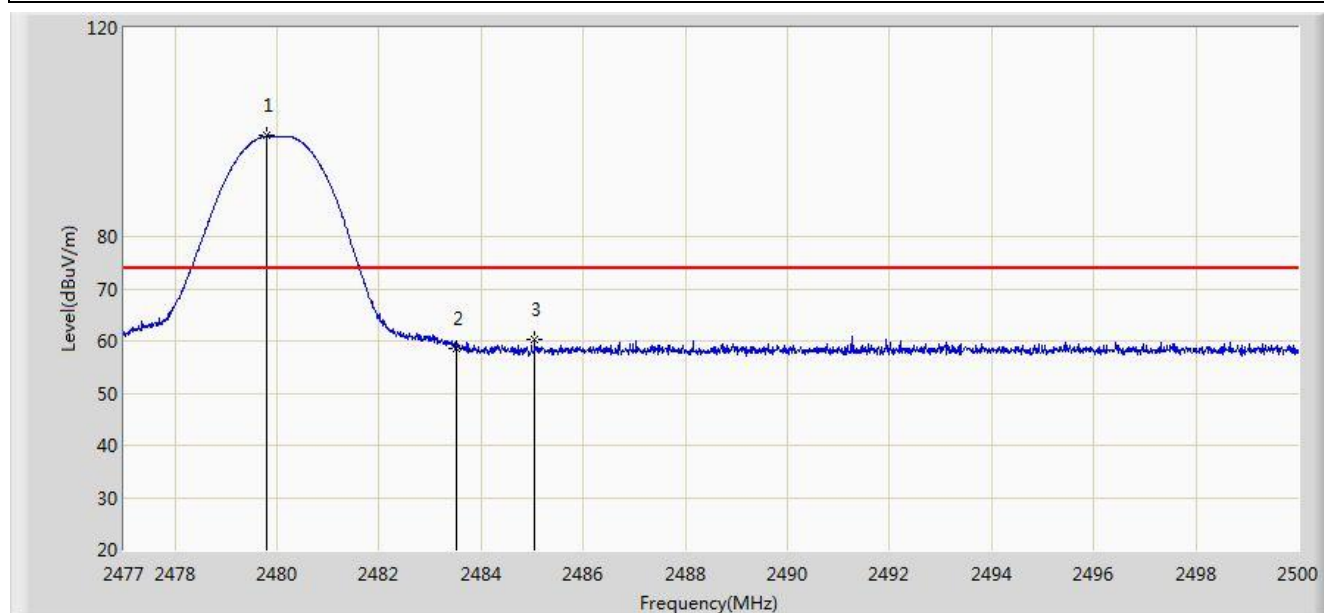


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      |      | 2390.000        | 45.288                 | 14.085               | -8.712          | 54.000         | 31.203      | AV   |
| 2  |      | *    | 2401.913        | 86.358                 | 55.174               | 32.358          | 54.000         | 31.184      | AV   |

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

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

|                                               |                          |
|-----------------------------------------------|--------------------------|
| Site: AC1                                     | Time: 2017/08/09 - 05:46 |
| Limit: FCC_Part15.209_RE(3m)                  | Engineer: Alex Ma        |
| Probe: BBHA9120D_1-18GHz                      | Polarity: Horizontal     |
| EUT: E20                                      | Power: AC 120V/60Hz      |
| Test Mode: Transmit by DH5 at channel 2480MHz |                          |

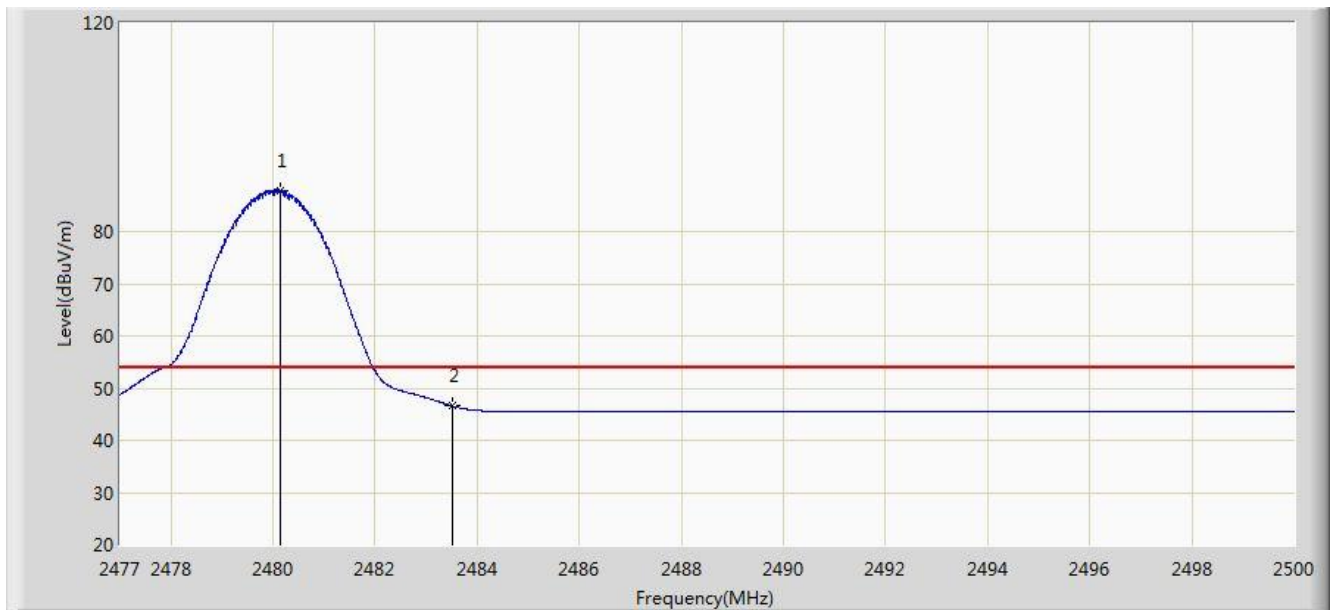


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      | *    | 2479.794        | 99.293                 | 68.109               | 25.293          | 74.000         | 31.184      | PK   |
| 2  |      |      | 2483.500        | 58.671                 | 27.478               | -15.329         | 74.000         | 31.194      | PK   |
| 3  |      |      | 2485.039        | 60.322                 | 29.125               | -13.678         | 74.000         | 31.197      | PK   |

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

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

|                                               |                          |
|-----------------------------------------------|--------------------------|
| Site: AC1                                     | Time: 2017/08/09 - 05:48 |
| Limit: FCC_Part15.209_RE(3m)                  | Engineer: Alex Ma        |
| Probe: BBHA9120D_1-18GHz                      | Polarity: Horizontal     |
| EUT: E20                                      | Power: AC 120V/60Hz      |
| Test Mode: Transmit by DH5 at channel 2480MHz |                          |

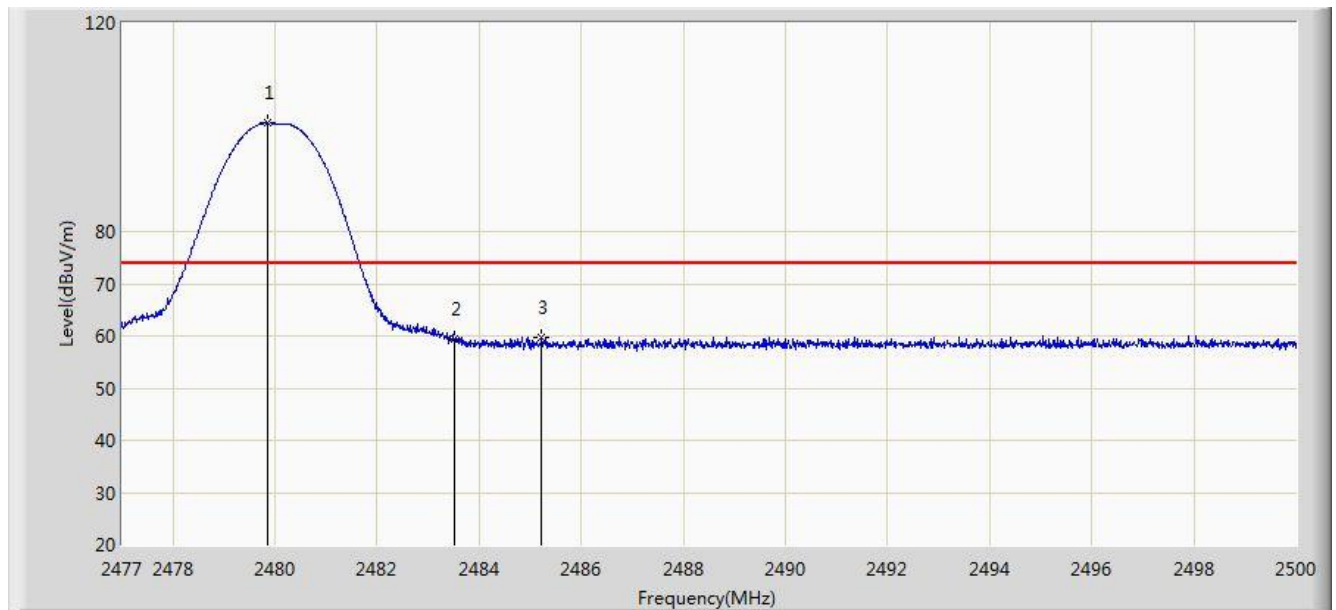


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      | *    | 2480.151        | 87.870                 | 56.685               | 33.870          | 54.000         | 31.185      | AV   |
| 2  |      |      | 2483.500        | 46.593                 | 15.400               | -7.407          | 54.000         | 31.194      | AV   |

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

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

|                                               |                          |
|-----------------------------------------------|--------------------------|
| Site: AC1                                     | Time: 2017/08/09 - 05:48 |
| Limit: FCC_Part15.209_RE(3m)                  | Engineer: Alex Ma        |
| Probe: BBHA9120D_1-18GHz                      | Polarity: Vertical       |
| EUT: E20                                      | Power: AC 120V/60Hz      |
| Test Mode: Transmit by DH5 at channel 2480MHz |                          |

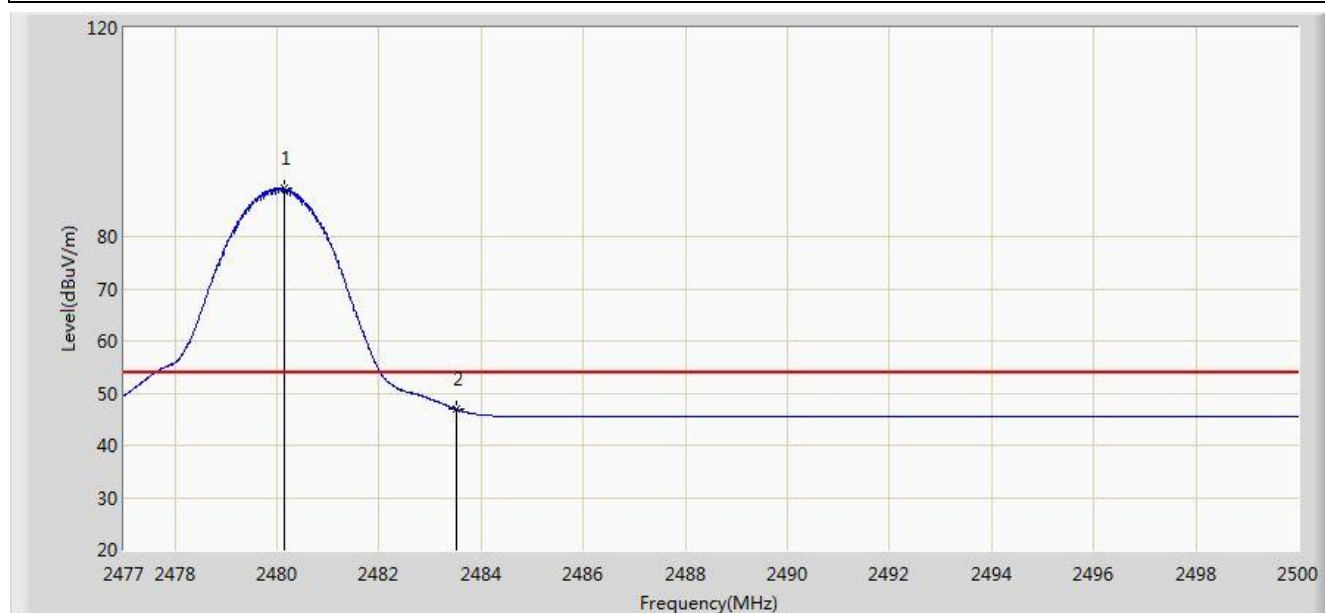


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      | *    | 2479.841        | 100.768                | 69.584               | 26.768          | 74.000         | 31.184      | PK   |
| 2  |      |      | 2483.500        | 59.557                 | 28.364               | -14.443         | 74.000         | 31.194      | PK   |
| 3  |      |      | 2485.222        | 59.756                 | 28.558               | -14.244         | 74.000         | 31.198      | PK   |

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

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

|                                               |                          |
|-----------------------------------------------|--------------------------|
| Site: AC1                                     | Time: 2017/08/09 - 05:49 |
| Limit: FCC_Part15.209_RE(3m)                  | Engineer: Alex Ma        |
| Probe: BBHA9120D_1-18GHz                      | Polarity: Vertical       |
| EUT: E20                                      | Power: AC 120V/60Hz      |
| Test Mode: Transmit by DH5 at channel 2480MHz |                          |

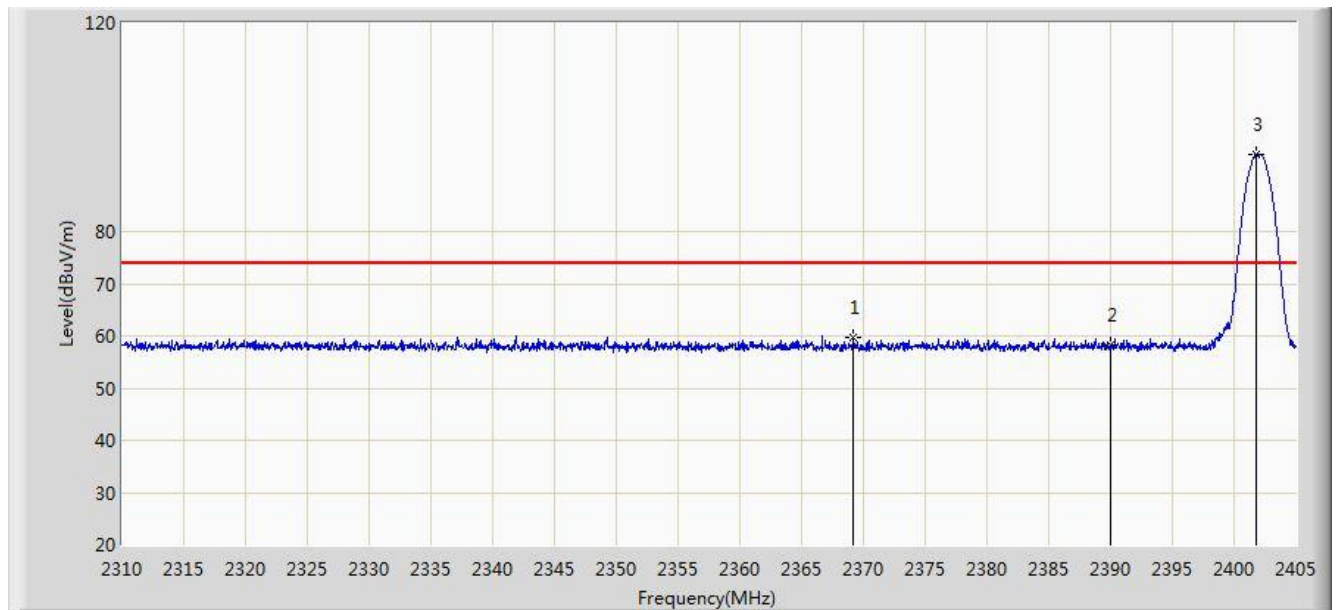


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      | *    | 2480.139        | 89.189                 | 58.005               | 35.189          | 54.000         | 31.185      | AV   |
| 2  |      |      | 2483.500        | 46.964                 | 15.771               | -7.036          | 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: 2017/08/09 - 05:50 |
| Limit: FCC_Part15.209_RE(3m)                   | Engineer: Alex Ma        |
| Probe: BBHA9120D_1-18GHz                       | Polarity: Horizontal     |
| EUT: E20                                       | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 2DH5 at channel 2402MHz |                          |

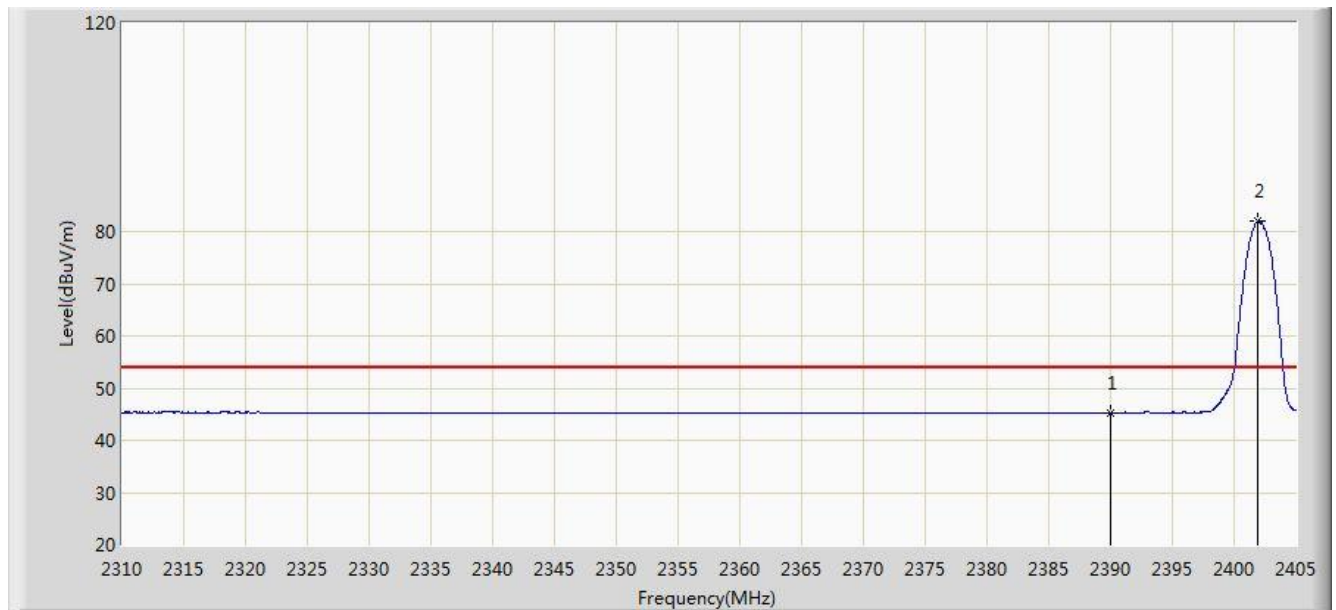


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      |      | 2369.185        | 59.794                 | 28.553               | -14.206         | 74.000         | 31.241      | PK   |
| 2  |      |      | 2390.000        | 58.216                 | 27.013               | -15.784         | 74.000         | 31.203      | PK   |
| 3  |      | *    | 2401.770        | 94.715                 | 63.531               | 20.715          | 74.000         | 31.184      | PK   |

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

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

|                                                |                          |
|------------------------------------------------|--------------------------|
| Site: AC1                                      | Time: 2017/08/09 - 05:51 |
| Limit: FCC_Part15.209_RE(3m)                   | Engineer: Alex Ma        |
| Probe: BBHA9120D_1-18GHz                       | Polarity: Horizontal     |
| EUT: E20                                       | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 2DH5 at channel 2402MHz |                          |

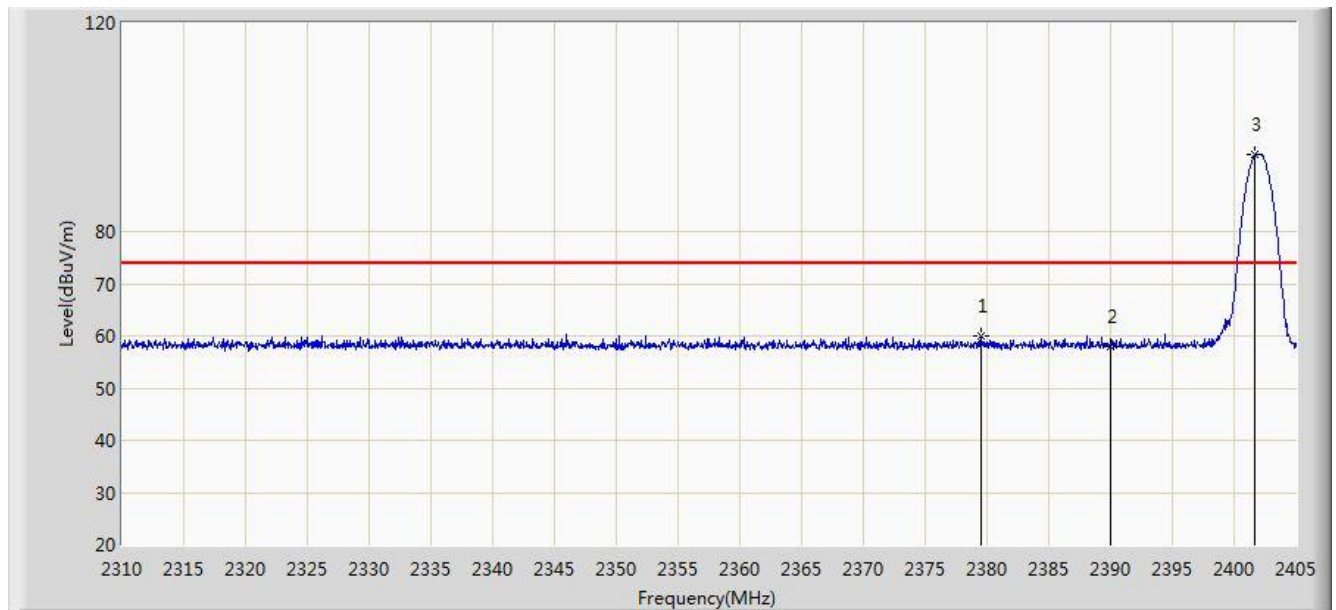


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      |      | 2390.000        | 45.308                 | 14.105               | -8.692          | 54.000         | 31.203      | AV   |
| 2  |      | *    | 2401.865        | 81.970                 | 50.786               | 27.970          | 54.000         | 31.184      | AV   |

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

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

|                                                |                          |
|------------------------------------------------|--------------------------|
| Site: AC1                                      | Time: 2017/08/09 - 05:53 |
| Limit: FCC_Part15.209_RE(3m)                   | Engineer: Alex Ma        |
| Probe: BBHA9120D_1-18GHz                       | Polarity: Vertical       |
| EUT: E20                                       | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 2DH5 at channel 2402MHz |                          |

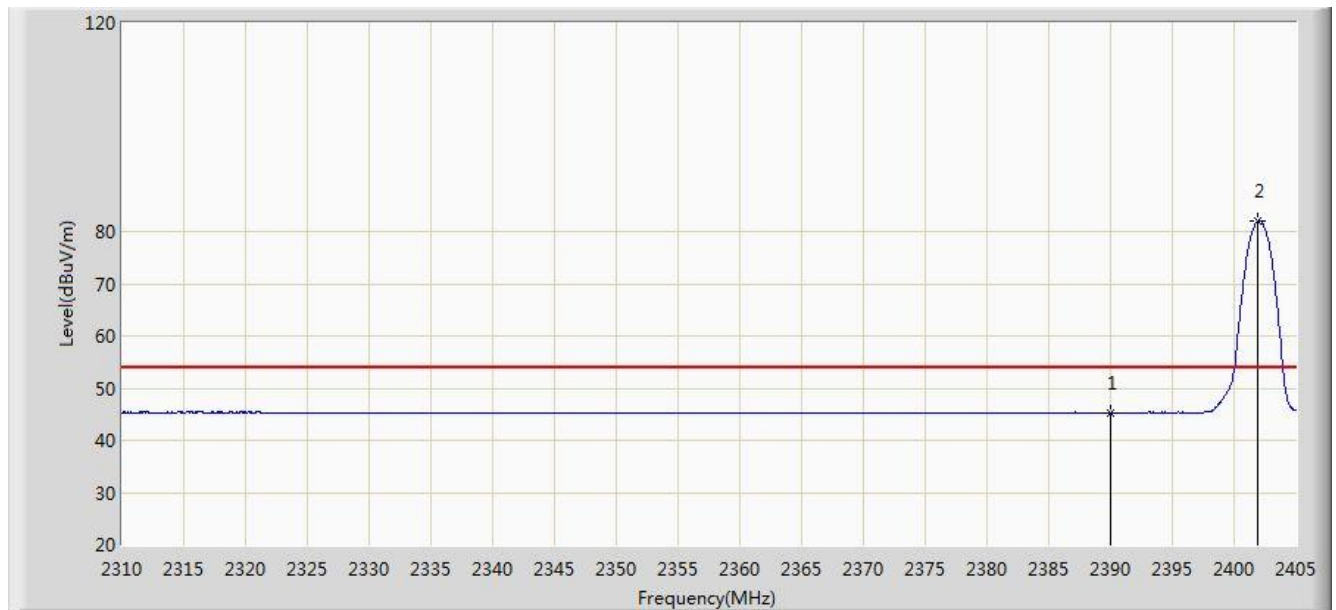


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      |      | 2379.492        | 59.947                 | 28.725               | -14.053         | 74.000         | 31.222      | PK   |
| 2  |      |      | 2390.000        | 57.928                 | 26.725               | -16.072         | 74.000         | 31.203      | PK   |
| 3  |      | *    | 2401.722        | 94.779                 | 63.595               | 20.779          | 74.000         | 31.184      | PK   |

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

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

|                                                |                          |
|------------------------------------------------|--------------------------|
| Site: AC1                                      | Time: 2017/08/09 - 05:55 |
| Limit: FCC_Part15.209_RE(3m)                   | Engineer: Alex Ma        |
| Probe: BBHA9120D_1-18GHz                       | Polarity: Vertical       |
| EUT: E20                                       | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 2DH5 at channel 2402MHz |                          |

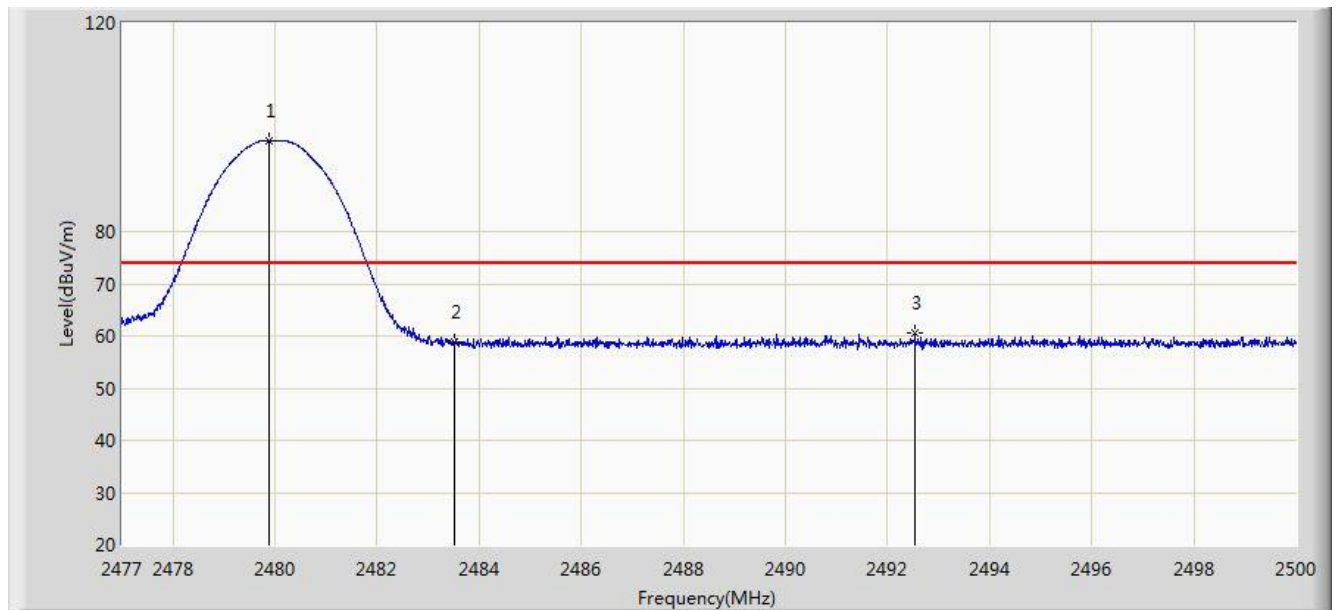


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      |      | 2390.000        | 45.295                 | 14.092               | -8.705          | 54.000         | 31.203      | AV   |
| 2  |      | *    | 2401.913        | 82.015                 | 50.831               | 28.015          | 54.000         | 31.184      | AV   |

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

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

|                                                |                          |
|------------------------------------------------|--------------------------|
| Site: AC1                                      | Time: 2017/08/09 - 05:55 |
| Limit: FCC_Part15.209_RE(3m)                   | Engineer: Alex Ma        |
| Probe: BBHA9120D_1-18GHz                       | Polarity: Horizontal     |
| EUT: E20                                       | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 2DH5 at channel 2480MHz |                          |

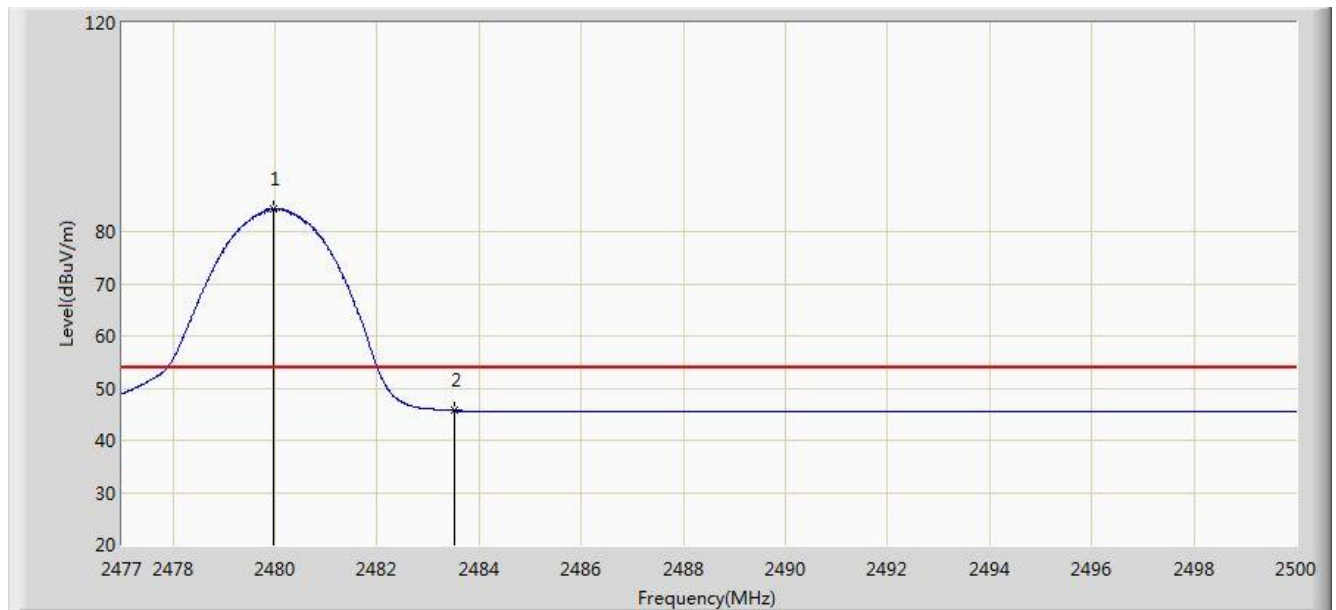


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      | *    | 2479.886        | 97.494                 | 66.310               | 23.494          | 74.000         | 31.184      | PK   |
| 2  |      |      | 2483.500        | 58.716                 | 27.523               | -15.284         | 74.000         | 31.194      | PK   |
| 3  |      |      | 2492.537        | 60.496                 | 29.279               | -13.504         | 74.000         | 31.217      | PK   |

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

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

|                                                |                          |
|------------------------------------------------|--------------------------|
| Site: AC1                                      | Time: 2017/08/09 - 05:57 |
| Limit: FCC_Part15.209_RE(3m)                   | Engineer: Alex Ma        |
| Probe: BBHA9120D_1-18GHz                       | Polarity: Horizontal     |
| EUT: E20                                       | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 2DH5 at channel 2480MHz |                          |

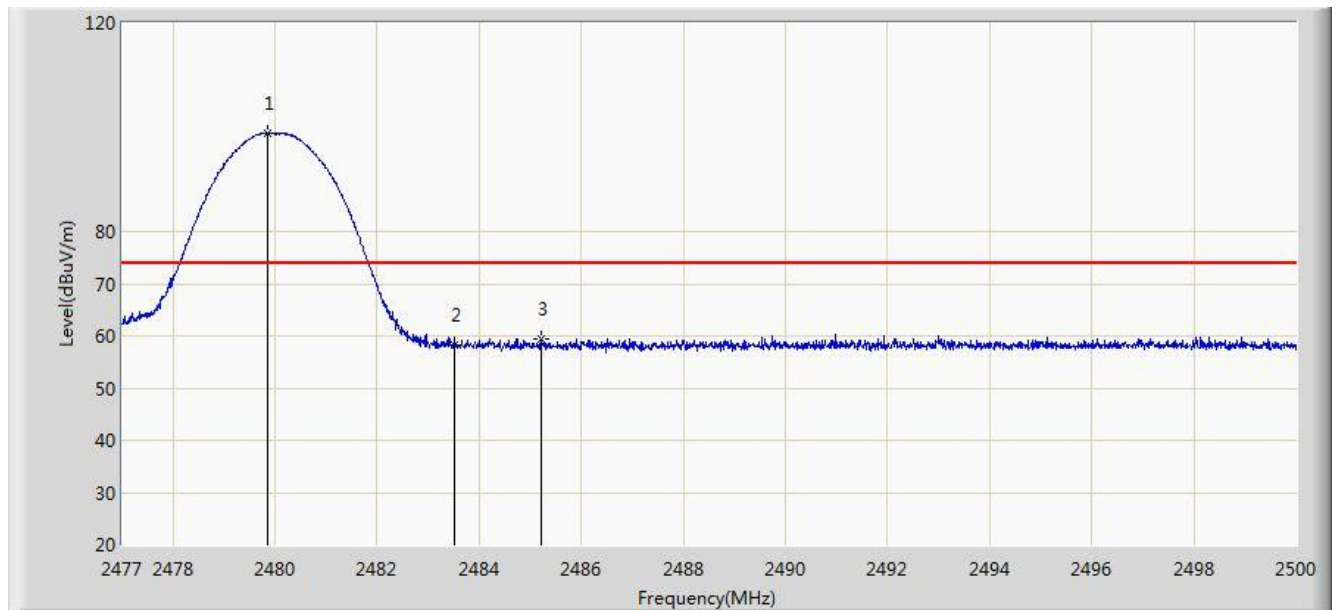


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      | *    | 2479.979        | 84.375                 | 53.191               | 30.375          | 54.000         | 31.184      | AV   |
| 2  |      |      | 2483.500        | 45.703                 | 14.510               | -8.297          | 54.000         | 31.194      | AV   |

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

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

|                                                |                          |
|------------------------------------------------|--------------------------|
| Site: AC1                                      | Time: 2017/08/09 - 05:57 |
| Limit: FCC_Part15.209_RE(3m)                   | Engineer: Alex Ma        |
| Probe: BBHA9120D_1-18GHz                       | Polarity: Vertical       |
| EUT: E20                                       | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 2DH5 at channel 2480MHz |                          |

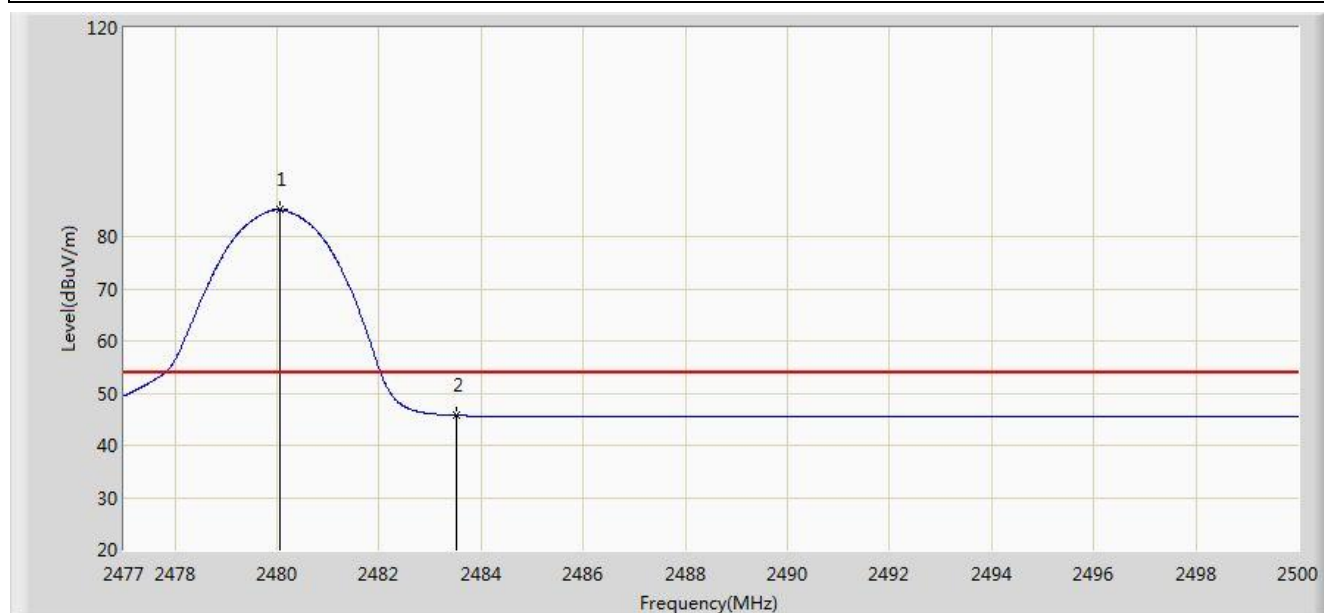


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      | *    | 2479.841        | 98.958                 | 67.774               | 24.958          | 74.000         | 31.184      | PK   |
| 2  |      |      | 2483.500        | 58.295                 | 27.102               | -15.705         | 74.000         | 31.194      | PK   |
| 3  |      |      | 2485.222        | 59.315                 | 28.117               | -14.685         | 74.000         | 31.198      | PK   |

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

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

|                                                |                          |
|------------------------------------------------|--------------------------|
| Site: AC1                                      | Time: 2017/08/09 - 05:58 |
| Limit: FCC_Part15.209_RE(3m)                   | Engineer: Alex Ma        |
| Probe: BBHA9120D_1-18GHz                       | Polarity: Vertical       |
| EUT: E20                                       | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 2DH5 at channel 2480MHz |                          |

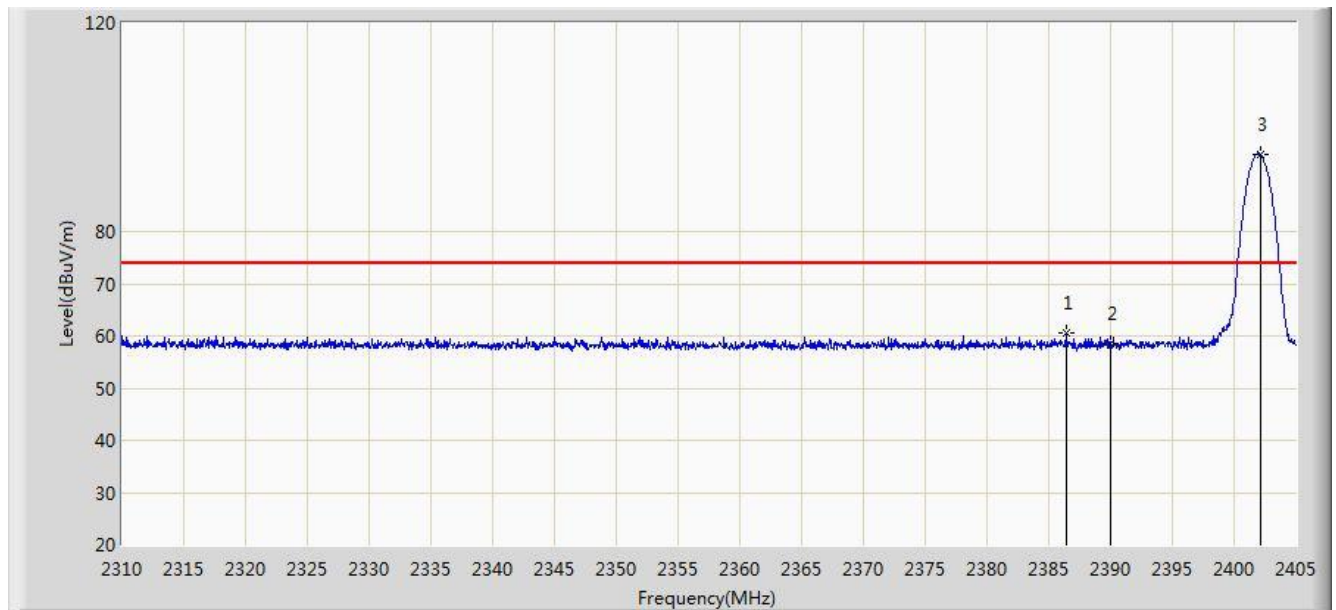


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      | *    | 2480.059        | 85.110                 | 53.926               | 31.110          | 54.000         | 31.184      | AV   |
| 2  |      |      | 2483.500        | 45.716                 | 14.523               | -8.284          | 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: 2017/08/09 - 05:59 |
| Limit: FCC_Part15.209_RE(3m)                   | Engineer: Alex Ma        |
| Probe: BBHA9120D_1-18GHz                       | Polarity: Horizontal     |
| EUT: E20                                       | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 3DH5 at channel 2402MHz |                          |

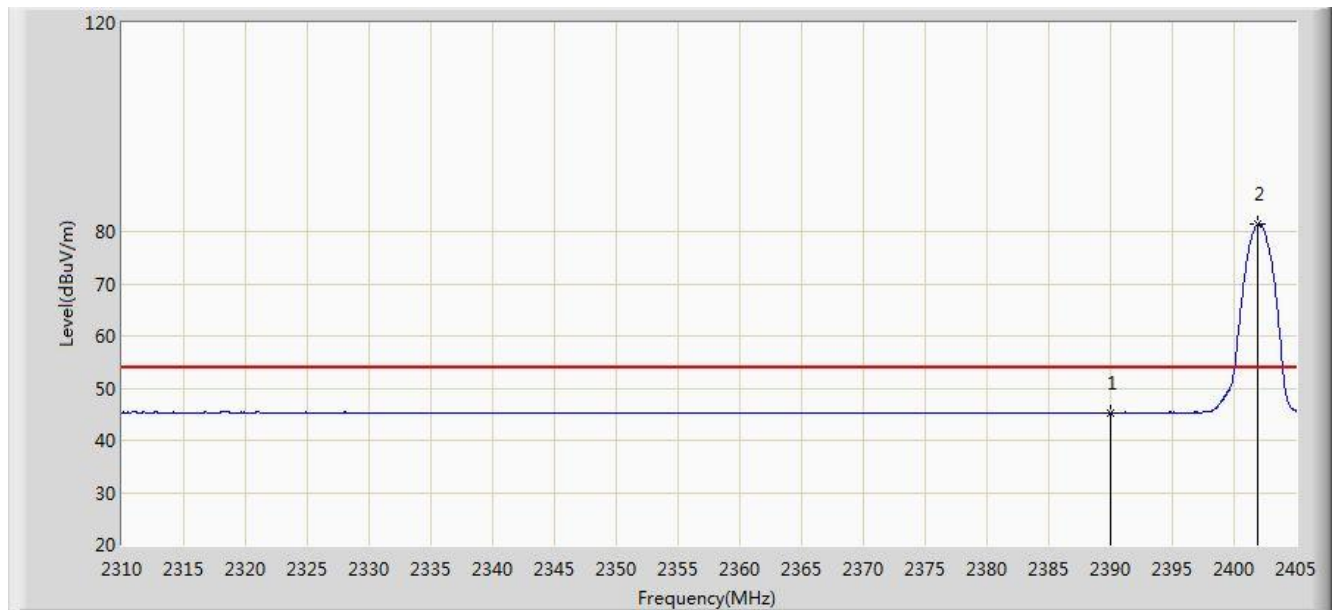


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      |      | 2386.380        | 60.524                 | 29.315               | -13.476         | 74.000         | 31.209      | PK   |
| 2  |      |      | 2390.000        | 58.598                 | 27.395               | -15.402         | 74.000         | 31.203      | PK   |
| 3  |      | *    | 2402.150        | 94.691                 | 63.507               | 20.691          | 74.000         | 31.184      | PK   |

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

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

|                                                |                          |
|------------------------------------------------|--------------------------|
| Site: AC1                                      | Time: 2017/08/09 - 06:01 |
| Limit: FCC_Part15.209_RE(3m)                   | Engineer: Alex Ma        |
| Probe: BBHA9120D_1-18GHz                       | Polarity: Horizontal     |
| EUT: E20                                       | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 3DH5 at channel 2402MHz |                          |

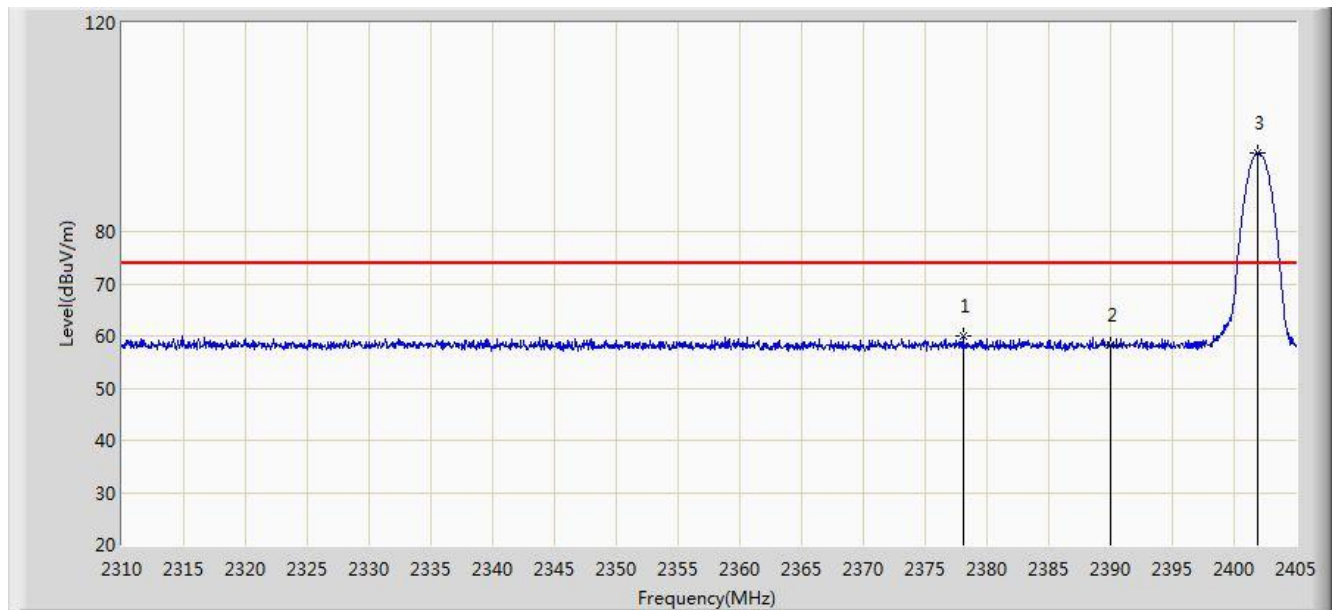


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      |      | 2390.000        | 45.294                 | 14.091               | -8.706          | 54.000         | 31.203      | AV   |
| 2  |      | *    | 2401.913        | 81.369                 | 50.185               | 27.369          | 54.000         | 31.184      | AV   |

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

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

|                                                |                          |
|------------------------------------------------|--------------------------|
| Site: AC1                                      | Time: 2017/08/09 - 06:02 |
| Limit: FCC_Part15.209_RE(3m)                   | Engineer: Alex Ma        |
| Probe: BBHA9120D_1-18GHz                       | Polarity: Vertical       |
| EUT: E20                                       | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 3DH5 at channel 2402MHz |                          |

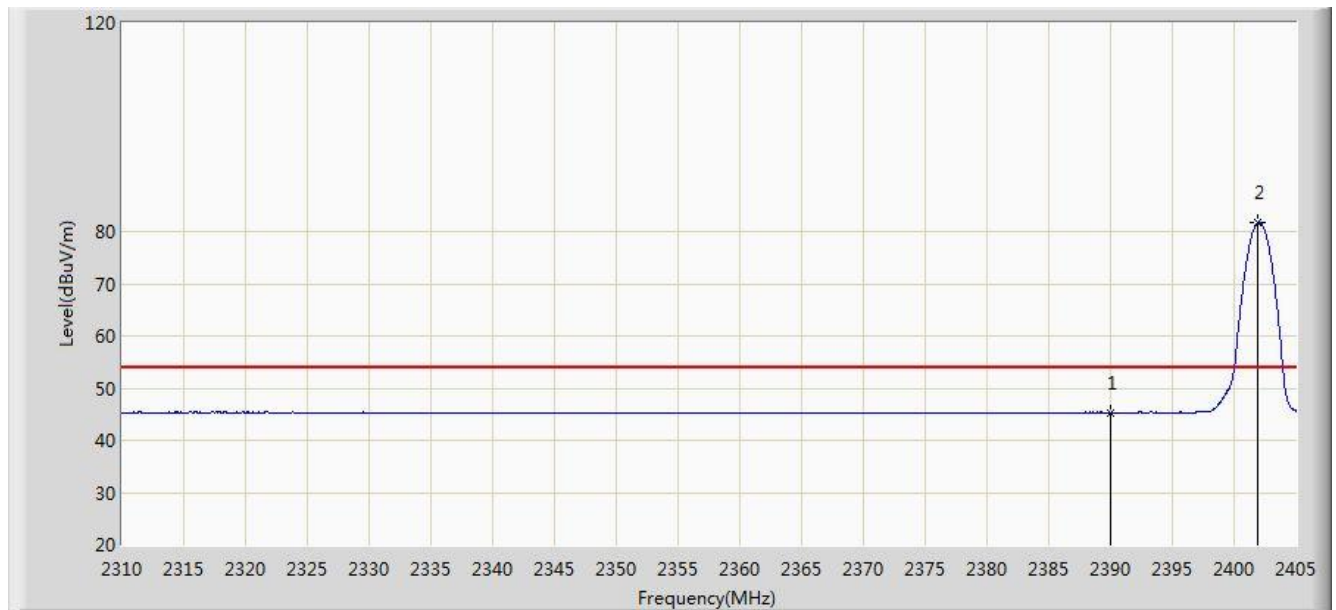


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      |      | 2378.067        | 59.930                 | 28.705               | -14.070         | 74.000         | 31.225      | PK   |
| 2  |      |      | 2390.000        | 58.259                 | 27.056               | -15.741         | 74.000         | 31.203      | PK   |
| 3  |      | *    | 2401.913        | 95.143                 | 63.959               | 21.143          | 74.000         | 31.184      | PK   |

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

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

|                                                |                          |
|------------------------------------------------|--------------------------|
| Site: AC1                                      | Time: 2017/08/09 - 06:03 |
| Limit: FCC_Part15.209_RE(3m)                   | Engineer: Alex Ma        |
| Probe: BBHA9120D_1-18GHz                       | Polarity: Vertical       |
| EUT: E20                                       | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 3DH5 at channel 2402MHz |                          |

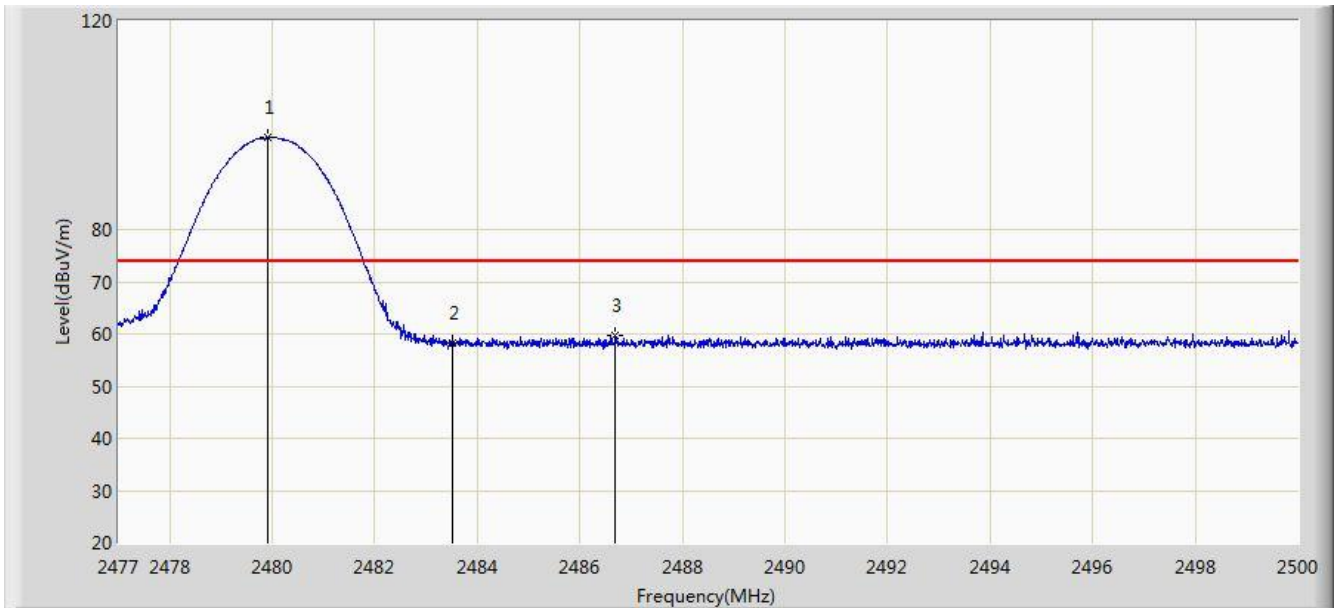


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      |      | 2390.000        | 45.311                 | 14.108               | -8.689          | 54.000         | 31.203      | AV   |
| 2  |      | *    | 2401.960        | 81.654                 | 50.470               | 27.654          | 54.000         | 31.184      | AV   |

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

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

|                                                |                          |
|------------------------------------------------|--------------------------|
| Site: AC1                                      | Time: 2017/08/09 - 06:03 |
| Limit: FCC_Part15.209_RE(3m)                   | Engineer: Alex Ma        |
| Probe: BBHA9120D_1-18GHz                       | Polarity: Horizontal     |
| EUT: E20                                       | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 3DH5 at channel 2480MHz |                          |

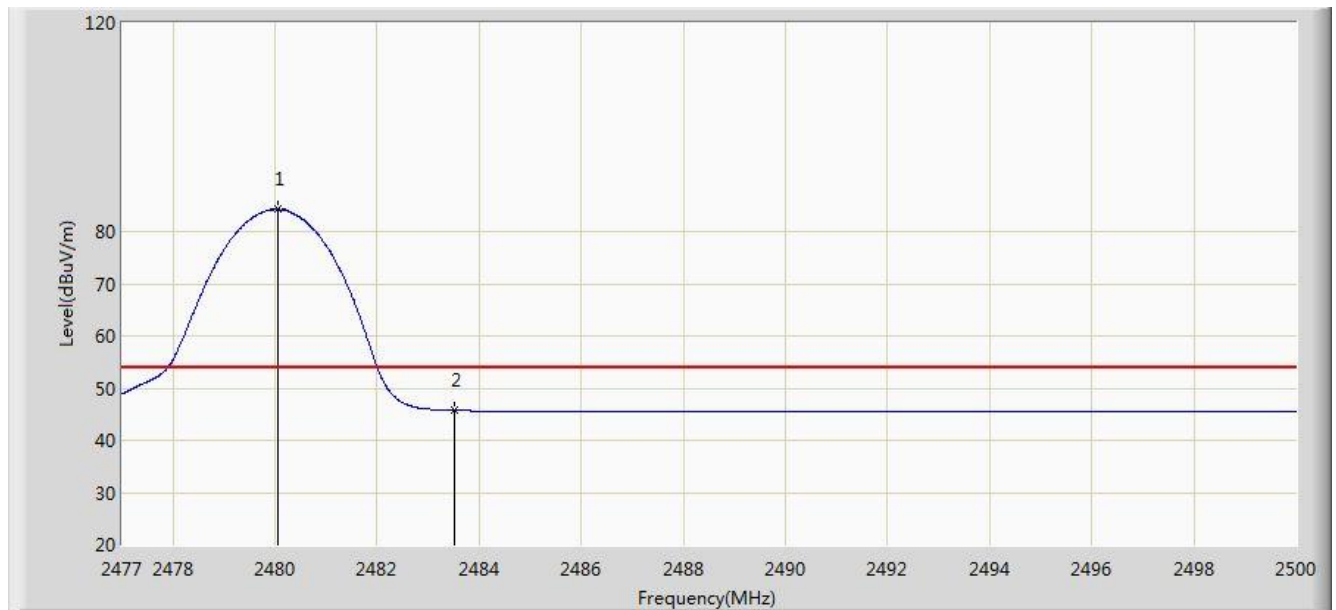


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      | *    | 2479.921        | 97.591                 | 66.407               | 23.591          | 74.000         | 31.184      | PK   |
| 2  |      |      | 2483.500        | 58.196                 | 27.003               | -15.804         | 74.000         | 31.194      | PK   |
| 3  |      |      | 2486.683        | 59.799                 | 28.597               | -14.201         | 74.000         | 31.201      | PK   |

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

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

|                                                |                          |
|------------------------------------------------|--------------------------|
| Site: AC1                                      | Time: 2017/08/09 - 06:05 |
| Limit: FCC_Part15.209_RE(3m)                   | Engineer: Alex Ma        |
| Probe: BBHA9120D_1-18GHz                       | Polarity: Horizontal     |
| EUT: E20                                       | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 3DH5 at channel 2480MHz |                          |

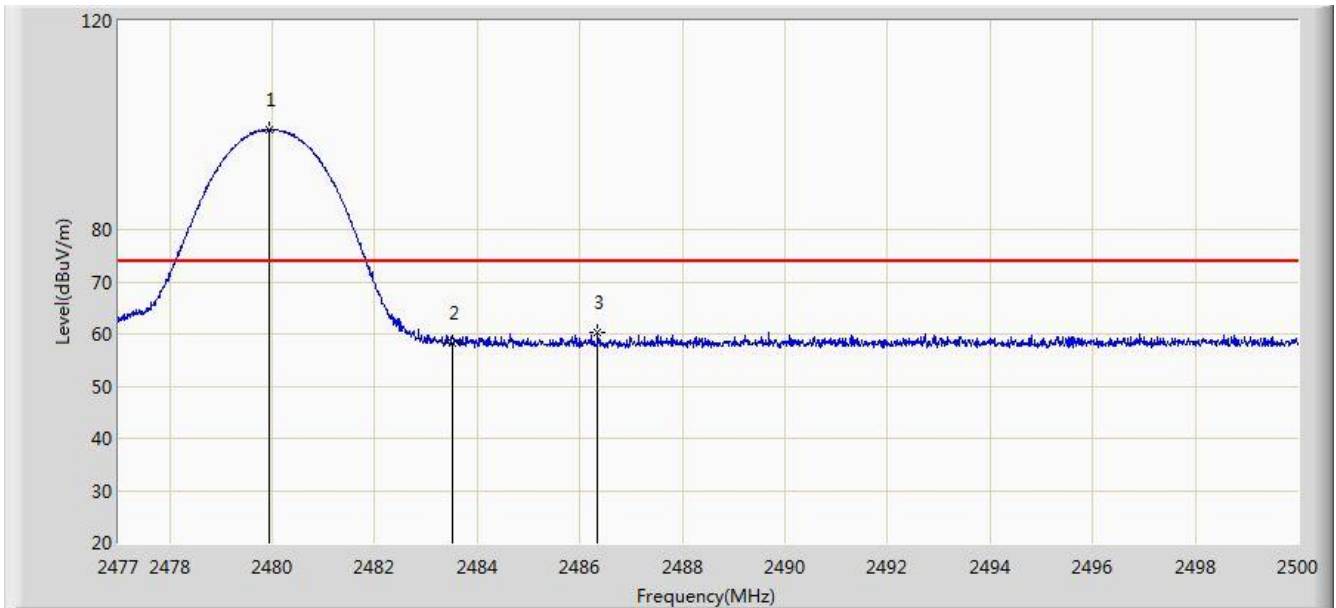


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      | *    | 2480.059        | 84.230                 | 53.046               | 30.230          | 54.000         | 31.184      | AV   |
| 2  |      |      | 2483.500        | 45.753                 | 14.560               | -8.247          | 54.000         | 31.194      | AV   |

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

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

|                                                |                          |
|------------------------------------------------|--------------------------|
| Site: AC1                                      | Time: 2017/08/09 - 06:05 |
| Limit: FCC_Part15.209_RE(3m)                   | Engineer: Alex Ma        |
| Probe: BBHA9120D_1-18GHz                       | Polarity: Vertical       |
| EUT: E20                                       | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 3DH5 at channel 2480MHz |                          |

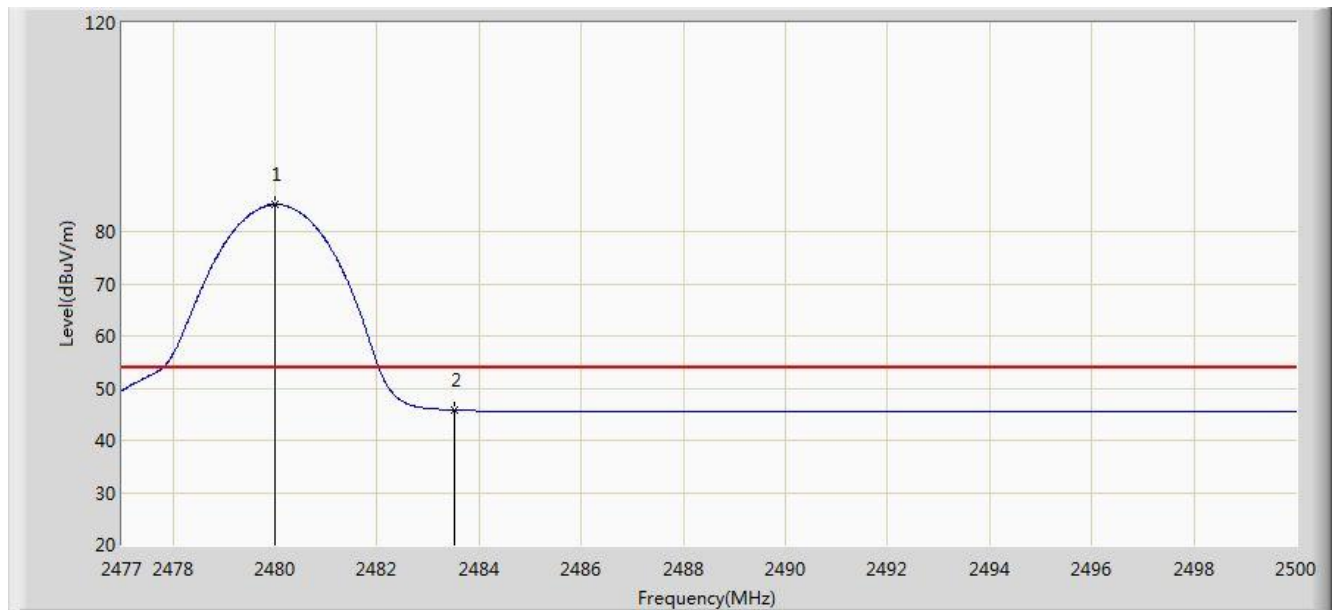


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      | *    | 2479.933        | 99.171                 | 67.987               | 25.171          | 74.000         | 31.184      | PK   |
| 2  |      |      | 2483.500        | 58.125                 | 26.932               | -15.875         | 74.000         | 31.194      | PK   |
| 3  |      |      | 2486.350        | 60.311                 | 29.110               | -13.689         | 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: 2017/08/09 - 06:06 |
| Limit: FCC_Part15.209_RE(3m)                   | Engineer: Alex Ma        |
| Probe: BBHA9120D_1-18GHz                       | Polarity: Vertical       |
| EUT: E20                                       | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 3DH5 at channel 2480MHz |                          |



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      | *    | 2479.990        | 85.145                 | 53.961               | 31.145          | 54.000         | 31.184      | AV   |
| 2  |      |      | 2483.500        | 45.772                 | 14.579               | -8.228          | 54.000         | 31.194      | AV   |

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

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

## 7.11. AC Conducted Emissions Measurement

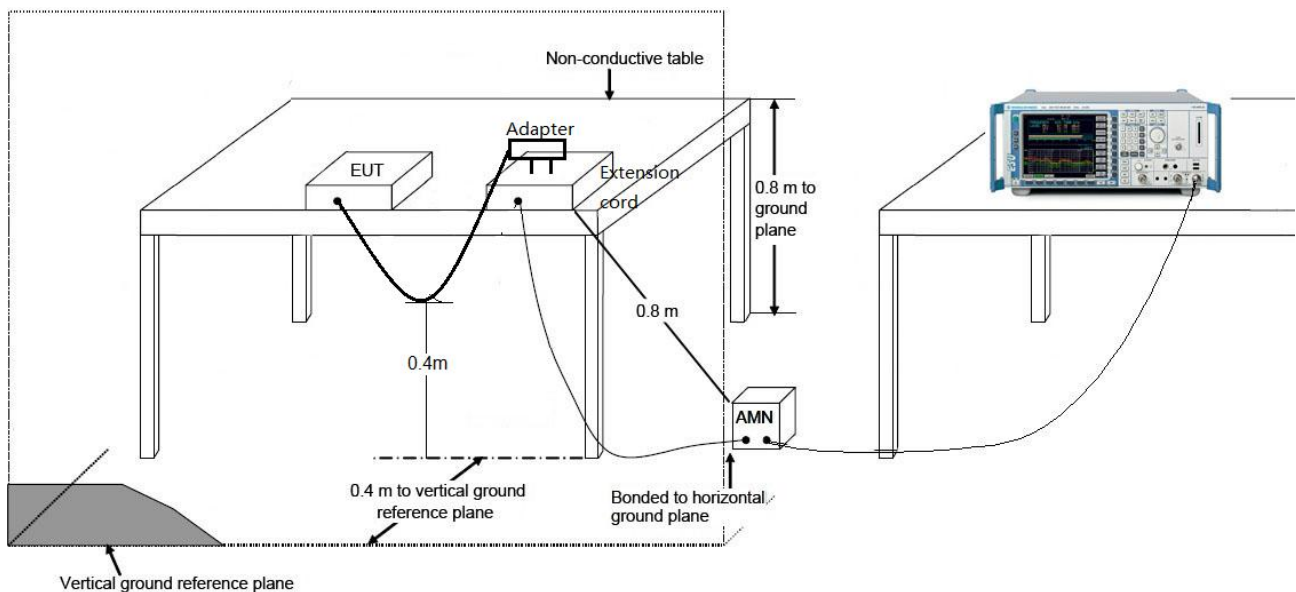
### 7.11.1. Test Limit

| FCC Part 15 Subpart C Paragraph 15.207 Limits |                 |                      |
|-----------------------------------------------|-----------------|----------------------|
| Frequency (MHz)                               | QP (dB $\mu$ V) | Average (dB $\mu$ V) |
| 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.

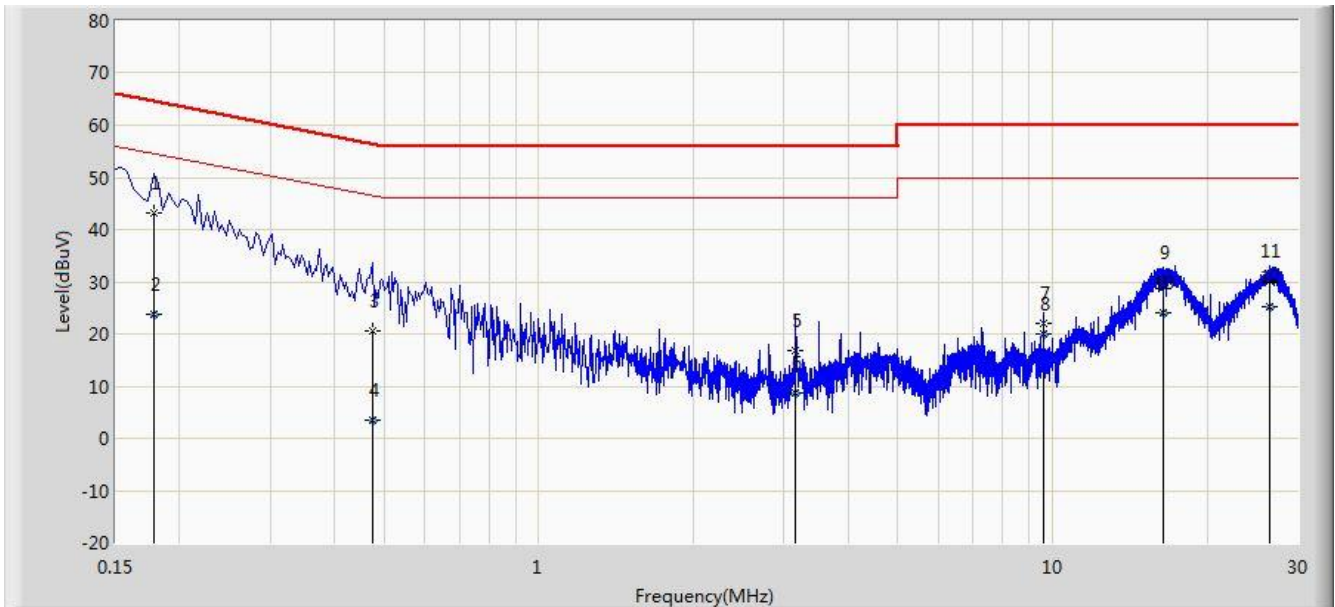
Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

### 7.11.2. Test Setup



### 7.11.3. Test Result

|                                                            |                          |
|------------------------------------------------------------|--------------------------|
| Site: SR2                                                  | Time: 2017/08/19 - 18:44 |
| Limit: FCC_Part15.107_CE_AC Power_ClassB                   | Engineer: Bacon Dong     |
| Probe: ENV216_101683_Filter On                             | Polarity: Line           |
| EUT: Wireless speaker ENEBY 30-E20                         | Power: AC 120V/60Hz      |
| <b>Worst Case Mode:</b> Transmit by DH5 at channel 2402MHz |                          |

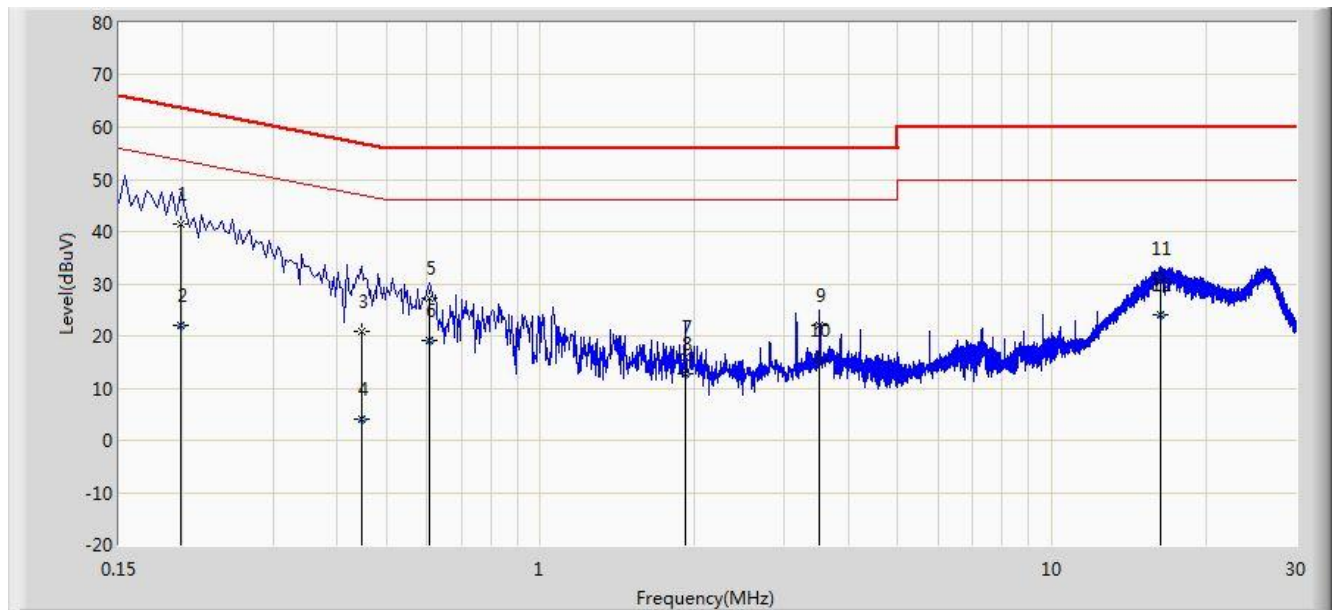


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV) | Factor (dB) | Type |
|----|------|------|-----------------|----------------------|----------------------|-----------------|--------------|-------------|------|
| 1  |      | *    | 0.178           | 43.249               | 33.191               | -21.330         | 64.578       | 10.058      | QP   |
| 2  |      |      | 0.178           | 23.843               | 13.785               | -30.735         | 54.578       | 10.058      | AV   |
| 3  |      |      | 0.474           | 20.591               | 10.446               | -35.852         | 56.444       | 10.145      | QP   |
| 4  |      |      | 0.474           | 3.542                | -6.603               | -42.901         | 46.444       | 10.145      | AV   |
| 5  |      |      | 3.166           | 16.733               | 6.875                | -39.267         | 56.000       | 9.858       | QP   |
| 6  |      |      | 3.166           | 8.690                | -1.169               | -37.310         | 46.000       | 9.858       | AV   |
| 7  |      |      | 9.598           | 21.897               | 11.731               | -38.103         | 60.000       | 10.167      | QP   |
| 8  |      |      | 9.598           | 19.990               | 9.824                | -30.010         | 50.000       | 10.167      | AV   |
| 9  |      |      | 16.434          | 29.932               | 19.859               | -30.068         | 60.000       | 10.073      | QP   |
| 10 |      |      | 16.434          | 24.122               | 14.049               | -25.878         | 50.000       | 10.073      | AV   |
| 11 |      |      | 26.494          | 30.197               | 19.950               | -29.803         | 60.000       | 10.246      | QP   |
| 12 |      |      | 26.494          | 25.143               | 14.897               | -24.857         | 50.000       | 10.246      | AV   |

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

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

|                                                            |                          |
|------------------------------------------------------------|--------------------------|
| Site: SR2                                                  | Time: 2017/08/19 - 18:48 |
| Limit: FCC_Part15.107_CE_AC Power_ClassB                   | Engineer: Bacon Dong     |
| Probe: ENV216_101683_Filter On                             | Polarity: Neutral        |
| EUT: Wireless speaker ENEBY 30-E20                         | Power: AC 120V/60Hz      |
| <b>Worst Case Mode:</b> Transmit by DH5 at channel 2402MHz |                          |



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV) | Factor (dB) | Type |
|----|------|------|-----------------|----------------------|----------------------|-----------------|--------------|-------------|------|
| 1  |      | *    | 0.198           | 41.312               | 31.298               | -22.382         | 63.694       | 10.015      | QP   |
| 2  |      |      | 0.198           | 21.900               | 11.886               | -31.794         | 53.694       | 10.015      | AV   |
| 3  |      |      | 0.446           | 20.825               | 10.678               | -36.124         | 56.949       | 10.147      | QP   |
| 4  |      |      | 0.446           | 4.020                | -6.127               | -42.929         | 46.949       | 10.147      | AV   |
| 5  |      |      | 0.606           | 27.185               | 17.057               | -28.815         | 56.000       | 10.128      | QP   |
| 6  |      |      | 0.606           | 19.235               | 9.107                | -26.765         | 46.000       | 10.128      | AV   |
| 7  |      |      | 1.922           | 16.036               | 6.159                | -39.964         | 56.000       | 9.876       | QP   |
| 8  |      |      | 1.922           | 12.777               | 2.901                | -33.223         | 46.000       | 9.876       | AV   |
| 9  |      |      | 3.514           | 21.972               | 12.056               | -34.028         | 56.000       | 9.915       | QP   |
| 10 |      |      | 3.514           | 15.460               | 5.545                | -30.540         | 46.000       | 9.915       | AV   |
| 11 |      |      | 16.310          | 30.936               | 20.823               | -29.064         | 60.000       | 10.112      | QP   |
| 12 |      |      | 16.310          | 24.103               | 13.991               | -25.897         | 50.000       | 10.112      | 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 **Wireless speaker ENEBY 20** is in compliance with Part 15C of the FCC Rules and IC Rules.

---

The End