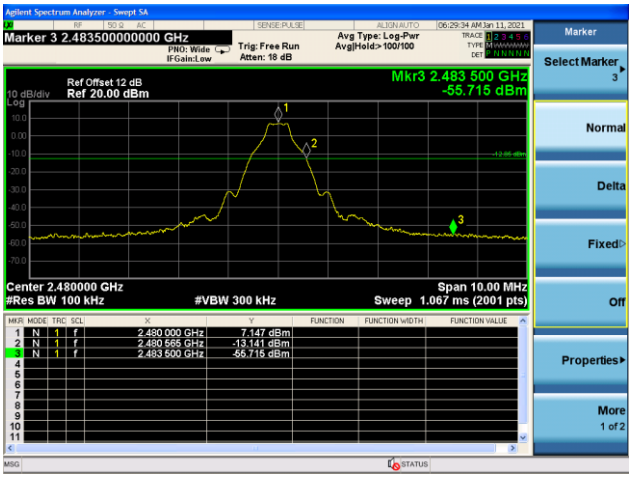
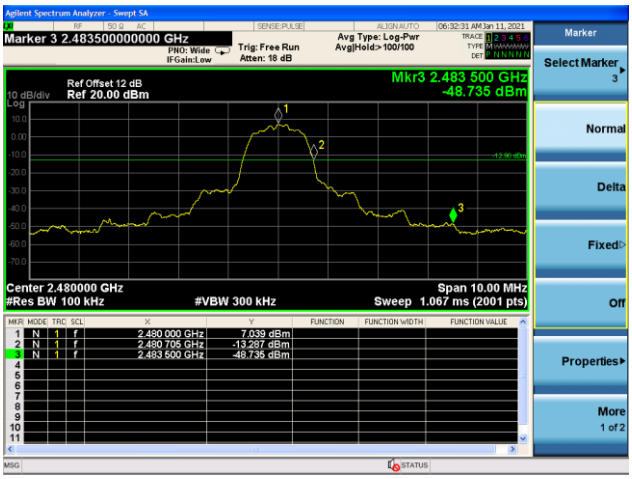
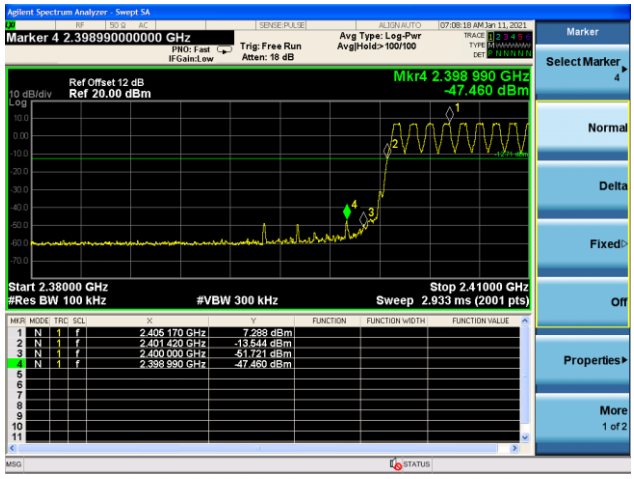
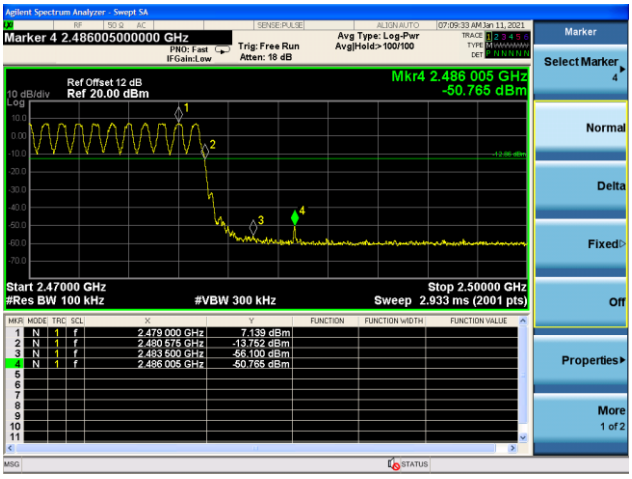
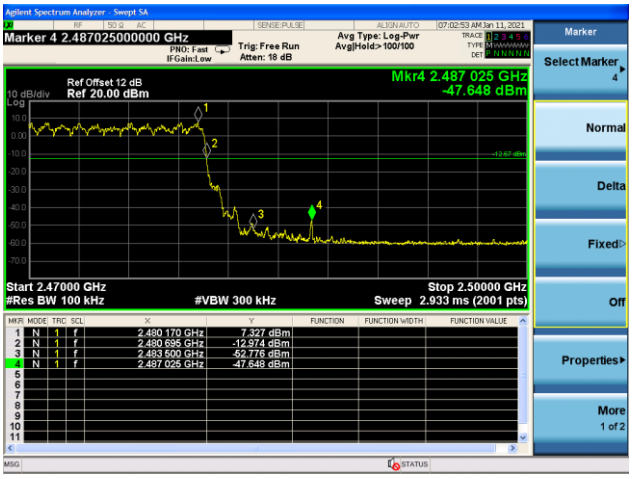
| Band-edge Compliance | |
|---|---|
| DH5 - Channel 00 (2402MHz) | DH5 - Channel 78 (2480MHz) |
|  |  |
| 2DH5 - Channel 00 (2402MHz) | 2DH5 - Channel 78 (2480MHz) |
|  |  |
| 3DH5 - Channel 00 (2402MHz) | 3DH5 - Channel 78 (2480MHz) |
|  |  |

| Operation Frequency Range of 20dB Bandwidth with Hopping Mode | |
|---|---|
| DH5 - Channel 00 (2402MHz) | DH5 - Channel 78 (2480MHz) |
|  |  |
| 2DH5 - Channel 00 (2402MHz) | 2DH5 - Channel 78 (2480MHz) |
|  |  |
| 3DH5 - Channel 00 (2402MHz) | 3DH5 - Channel 78 (2480MHz) |
|  |  |

## 6.8. Conducted Spurious Emissions Measurement

### 6.8.1.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.

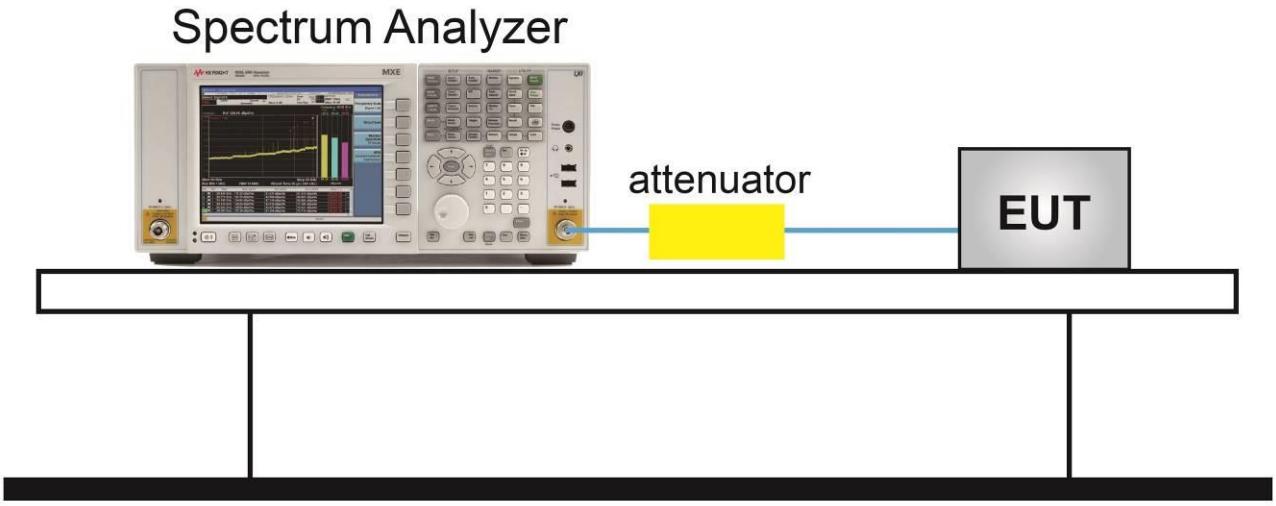
### 6.8.2.Test Procedure Used

ANSI C63.10-2013 - Section 7.8.8

### 6.8.3.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 = 100kHz
3. VBW = 300kHz
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.

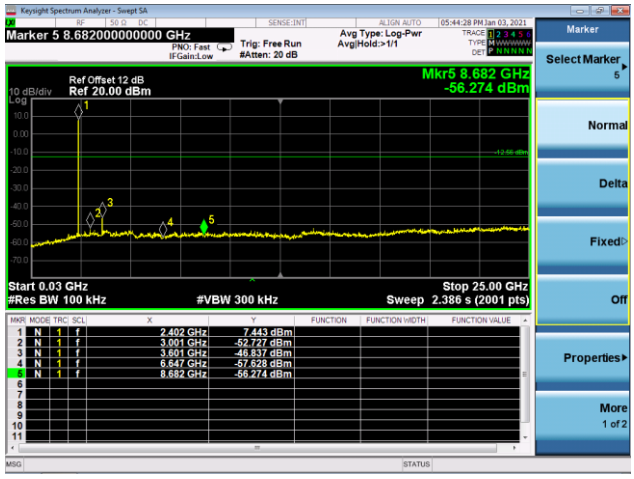
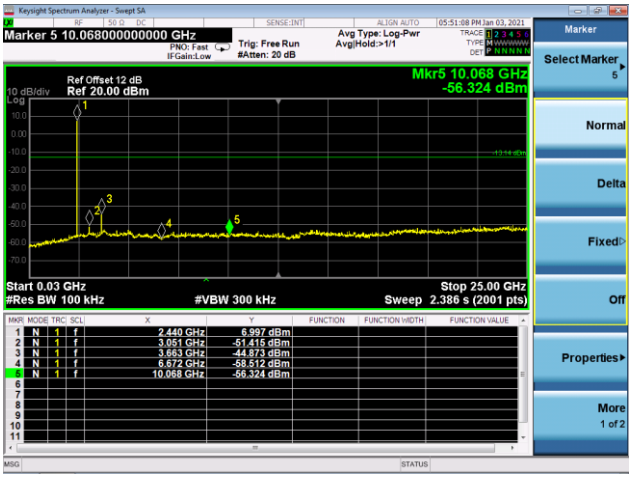
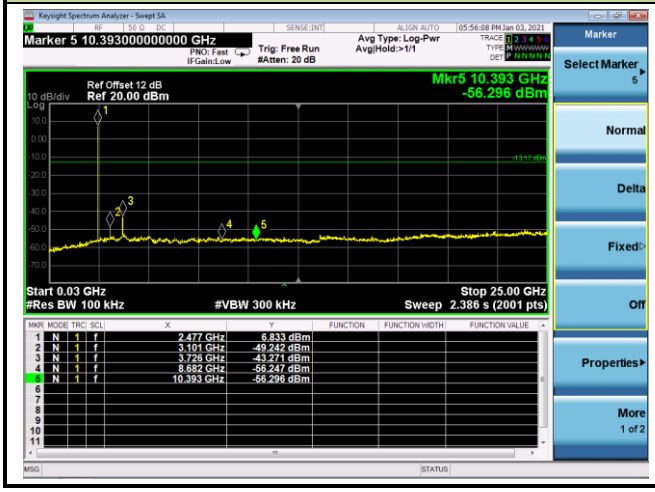
### 6.8.4.Test Setup

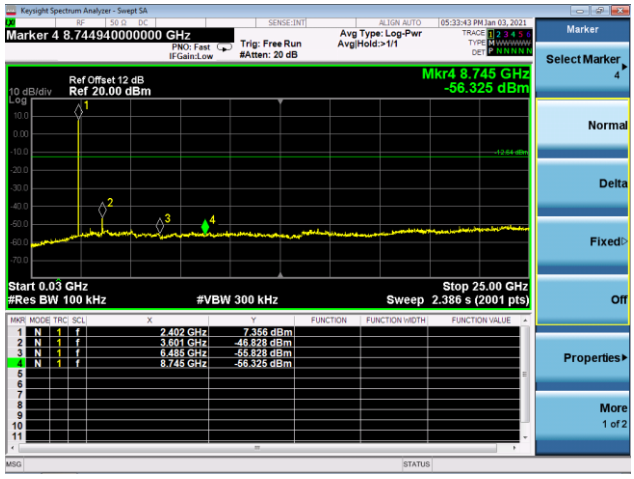
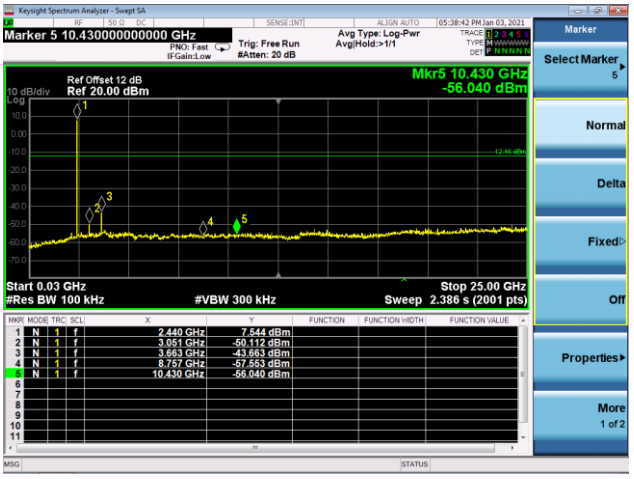
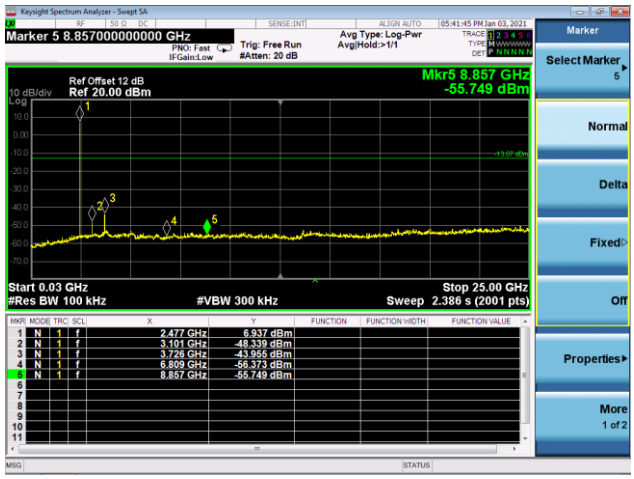


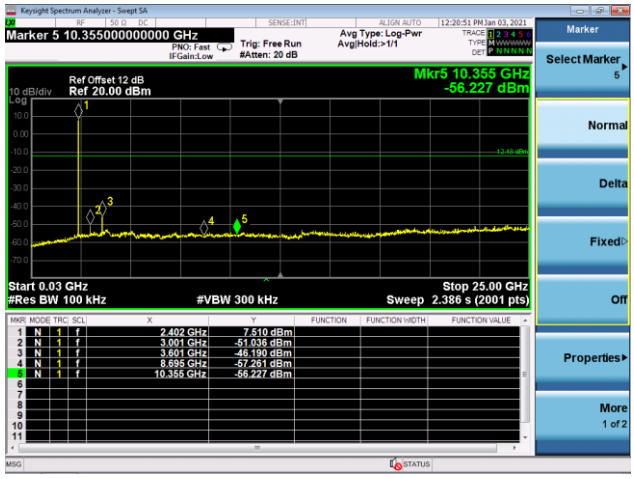
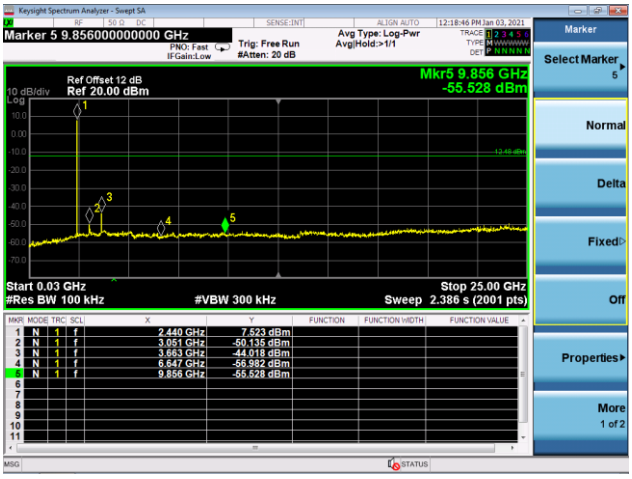
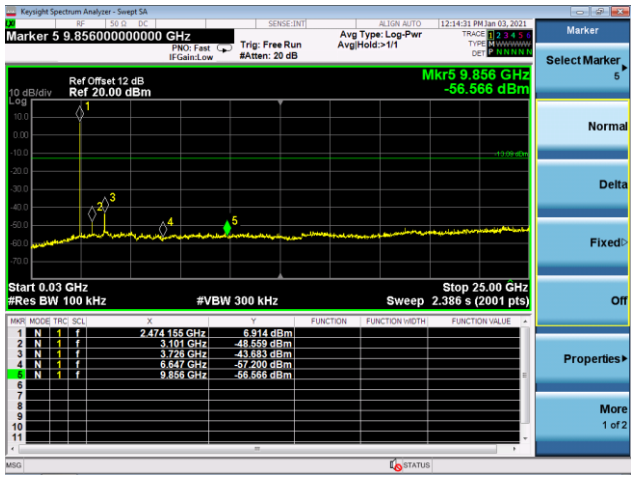
### 6.8.5.Test Result

| Product | Active Speaker | Test Engineer | Louis Liu |
|---|---|---|---|
| Test Site | NS-TR2 | Test Date | 2021/01/03 |

| 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) | |
|  | |

## 6.9. Radiated Spurious Emission Measurement

### 6.9.1.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 (MHz) | Field Strength (μV/m) | Measured Distance (m) |
| 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 |

### 6.9.2.Test Procedure Used

ANSI C63.10-2013 - Section 6.3 & 6.4 & 6.5 & 6.6

### 6.9.3.Test Setting

**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 |

**Quasi-Peak Measurements below 1GHz**

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. Span was set greater than 1MHz
3. RBW = As specified in Table 1
4. Detector = CISPR quasi-peak
5. Sweep time = Auto couple
6. Trace was allowed to stabilize

**Peak Measurements above 1GHz**

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = Peak
5. Sweep time = Auto couple
6. Trace mode = Max hold
7. Trace was allowed to stabilize

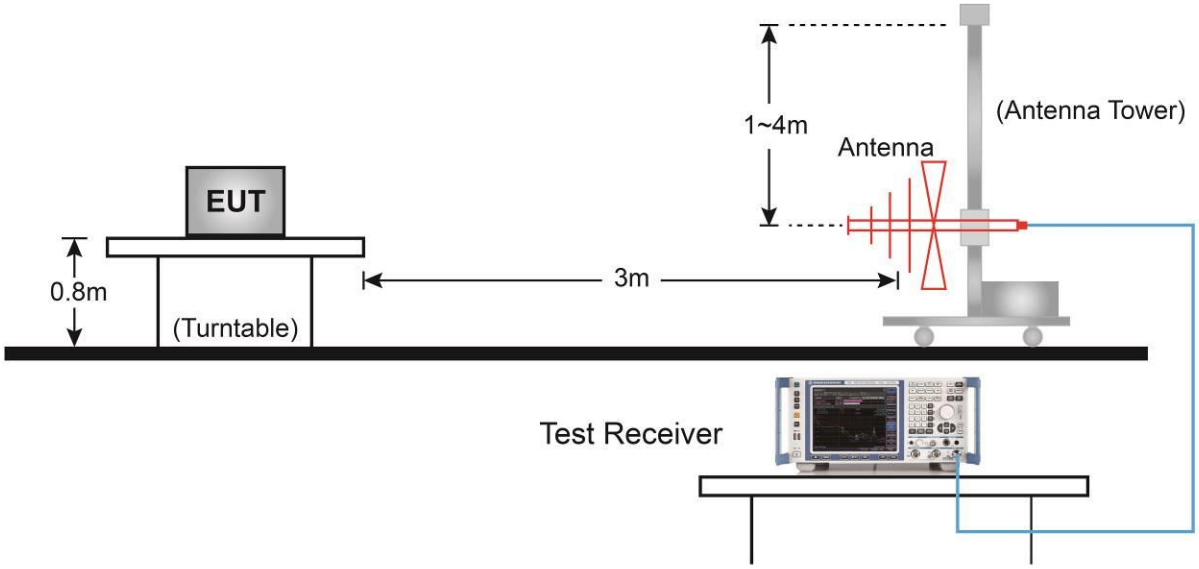
**Average Measurements above 1GHz (Method VB)**

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW; If the EUT is configured to transmit with duty cycle ≥ 98%, set VBW = 10Hz

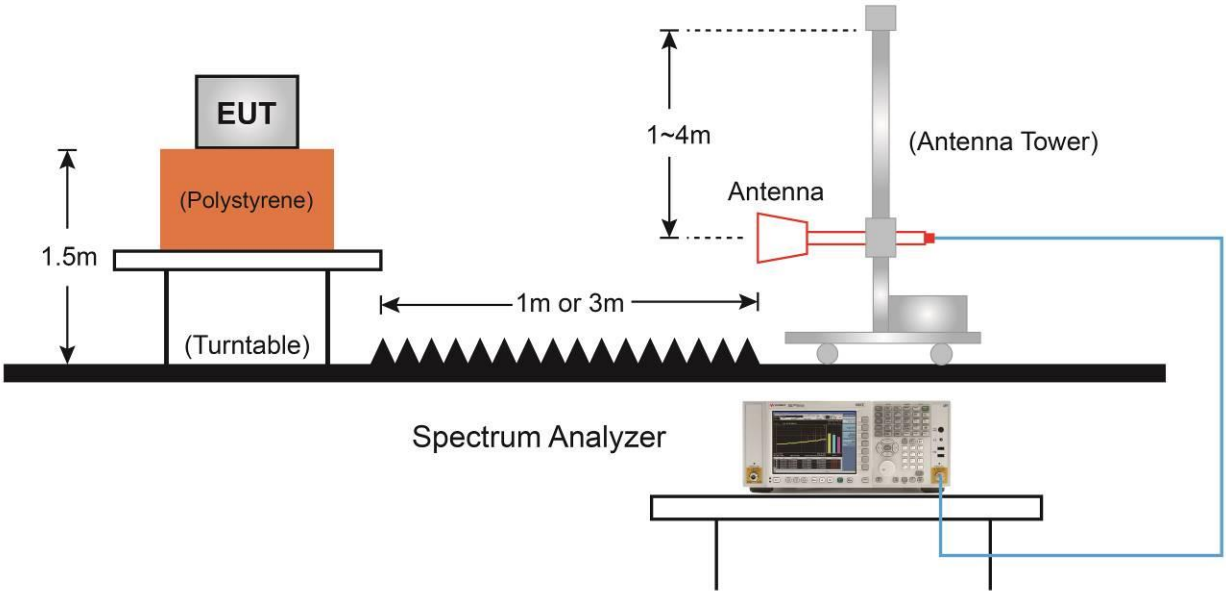
   If the EUT duty cycle is < 98%, set VBW ≥ 1/T. T is the minimum transmission duration
4. Detector = Peak
5. Sweep time = Auto
6. Trace mode = Max hold
7. Trace was allowed to stabilize

### 6.9.4.Test Setup

Below 1GHz Test Setup:




Above 1GHz Test Setup:



### 6.9.5.Test Result

| Product | Active Speaker | Test Engineer | Silence Liu |
|---|---|---|---|
| Test Site | NS-AC1 | Test Date | 2021/01/06 |
| Test Mode | DH5 | Test Channel | 00 |
| 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 | 50.3 | 1.8 | 52.1 | 74.0 | -21.9 | Peak | Horizontal |
| * | 7205.0 | 40.6 | 9.1 | 49.7 | 74.0 | -24.3 | Peak | Horizontal |
| | 8165.5 | 35.2 | 10.5 | 45.7 | 74.0 | -28.3 | Peak | Horizontal |
| * | 9738.0 | 36.9 | 12.1 | 49.0 | 74.0 | -25.0 | Peak | Horizontal |
| | 4808.0 | 48.1 | 1.8 | 49.9 | 74.0 | -24.1 | Peak | Vertical |
| * | 7205.0 | 41.0 | 9.1 | 50.1 | 74.0 | -23.9 | Peak | Vertical |
| | 8318.5 | 34.2 | 10.5 | 44.7 | 74.0 | -29.3 | Peak | Vertical |
| * | 9976.0 | 35.8 | 13.0 | 48.8 | 74.0 | -25.2 | Peak | Vertical |

Note 1: “*” means test frequency didn't fall into restricted band.

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

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | Active Speaker | Test Engineer | Silence Liu |
|---|---|---|---|
| Test Site | NS-AC1 | Test Date | 2021/01/06 |
| Test Mode | DH5 | Test Channel | 39 |
| 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 | 48.5 | 1.7 | 50.2 | 74.0 | -23.8 | Peak | Horizontal |
| * | 6423.0 | 36.2 | 6.0 | 42.2 | 74.0 | -31.8 | Peak | Horizontal |
| | 7324.0 | 40.3 | 9.2 | 49.5 | 74.0 | -24.5 | Peak | Horizontal |
| * | 9865.5 | 36.1 | 12.4 | 48.5 | 74.0 | -25.5 | Peak | Horizontal |
| | 4884.5 | 47.7 | 1.7 | 49.4 | 74.0 | -24.6 | Peak | Vertical |
| * | 6321.0 | 36.8 | 5.4 | 42.2 | 74.0 | -31.8 | Peak | Vertical |
| | 7324.0 | 41.3 | 9.2 | 50.5 | 74.0 | -23.5 | Peak | Vertical |
| * | 10469.0 | 37.3 | 13.1 | 50.4 | 74.0 | -23.6 | Peak | Vertical |

Note 1: “*” means test frequency didn't fall into restricted band.

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

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | Active Speaker | Test Engineer | Silence Liu |
|---|---|---|---|
| Test Site | NS-AC1 | Test Date | 2021/01/06 |
| Test Mode | DH5 | Test Channel | 78 |
| 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 | 48.7 | 1.8 | 50.5 | 74.0 | -23.5 | Peak | Horizontal |
| * | 6423.0 | 37.1 | 6.0 | 43.1 | 74.0 | -30.9 | Peak | Horizontal |
| | 7443.0 | 38.6 | 9.5 | 48.1 | 74.0 | -25.9 | Peak | Horizontal |
| * | 10163.0 | 35.1 | 13.6 | 48.7 | 74.0 | -25.3 | Peak | Horizontal |
| | 4961.0 | 48.3 | 1.8 | 50.1 | 74.0 | -23.9 | Peak | Vertical |
| * | 6261.5 | 36.4 | 5.3 | 41.7 | 74.0 | -32.3 | Peak | Vertical |
| | 7443.0 | 39.3 | 9.5 | 48.8 | 74.0 | -25.2 | Peak | Vertical |
| * | 10324.5 | 35.1 | 13.3 | 48.4 | 74.0 | -25.6 | Peak | Vertical |

Note 1: “*” means test frequency didn't fall into restricted band.

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

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | Active Speaker | Test Engineer | Silence Liu |
|---|---|---|---|
| Test Site | NS-AC1 | Test Date | 2021/01/06 |
| Test Mode | 2DH5 | Test Channel | 00 |
| 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 | 49.9 | 1.8 | 51.7 | 74.0 | -22.3 | Peak | Horizontal |
| * | 7205.0 | 41.2 | 9.1 | 50.3 | 74.0 | -23.7 | Peak | Horizontal |
| | 8352.5 | 36.1 | 10.5 | 46.6 | 74.0 | -27.4 | Peak | Horizontal |
| * | 10163.0 | 34.9 | 13.6 | 48.5 | 74.0 | -25.5 | Peak | Horizontal |
| | 4808.0 | 48.2 | 1.8 | 50.0 | 74.0 | -24.0 | Peak | Vertical |
| * | 7205.0 | 40.2 | 9.1 | 49.3 | 74.0 | -24.7 | Peak | Vertical |
| | 8497.0 | 36.5 | 10.8 | 47.3 | 74.0 | -26.7 | Peak | Vertical |
| * | 9602.0 | 35.7 | 12.0 | 47.7 | 74.0 | -26.3 | Peak | Vertical |

Note 1: “*” means test frequency didn't fall into restricted band.

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

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | Active Speaker | Test Engineer | Silence Liu |
|---|---|---|---|
| Test Site | NS-AC1 | Test Date | 2021/01/06 |
| Test Mode | 2DH5 | Test Channel | 39 |
| 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 | 48.5 | 1.7 | 50.2 | 74.0 | -23.8 | Peak | Horizontal |
| * | 6414.5 | 36.5 | 5.9 | 42.4 | 74.0 | -31.6 | Peak | Horizontal |
| | 7324.0 | 40.4 | 9.2 | 49.6 | 74.0 | -24.4 | Peak | Horizontal |
| * | 10154.5 | 34.6 | 13.4 | 48.0 | 74.0 | -26.0 | Peak | Horizontal |
| | 4884.5 | 48.4 | 1.7 | 50.1 | 74.0 | -23.9 | Peak | Vertical |
| * | 6474.0 | 37.3 | 6.1 | 43.4 | 74.0 | -30.6 | Peak | Vertical |
| | 7324.0 | 41.3 | 9.2 | 50.5 | 74.0 | -23.5 | Peak | Vertical |
| * | 10086.5 | 35.9 | 13.1 | 49.0 | 74.0 | -25.0 | Peak | Vertical |

Note 1: “*” means test frequency didn't fall into restricted band.

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

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | Active Speaker | Test Engineer | Silence Liu |
|---|---|---|---|
| Test Site | NS-AC1 | Test Date | 2021/01/06 |
| Test Mode | 2DH5 | Test Channel | 78 |
| 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 | 49.1 | 1.8 | 50.9 | 74.0 | -23.1 | Peak | Horizontal |
| * | 6423.0 | 37.4 | 6.0 | 43.4 | 74.0 | -30.6 | Peak | Horizontal |
| | 7443.0 | 38.4 | 9.5 | 47.9 | 74.0 | -26.1 | Peak | Horizontal |
| * | 9925.0 | 35.8 | 12.7 | 48.5 | 74.0 | -25.5 | Peak | Horizontal |
| | 4961.0 | 48.2 | 1.8 | 50.0 | 74.0 | -24.0 | Peak | Vertical |
| * | 6457.0 | 36.9 | 6.2 | 43.1 | 74.0 | -30.9 | Peak | Vertical |
| | 7443.0 | 38.9 | 9.5 | 48.4 | 74.0 | -25.6 | Peak | Vertical |
| * | 9678.5 | 36.2 | 11.8 | 48.0 | 74.0 | -26.0 | Peak | Vertical |

Note 1: “*” means test frequency didn't fall into restricted band.

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

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | Active Speaker | Test Engineer | Silence Liu |
|---|---|---|---|
| Test Site | NS-AC1 | Test Date | 2021/01/06 |
| Test Mode | 3DH5 | Test Channel | 00 |
| 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 | 50.0 | 1.8 | 51.8 | 74.0 | -22.2 | Peak | Horizontal |
| * | 7205.0 | 41.3 | 9.1 | 50.4 | 74.0 | -23.6 | Peak | Horizontal |
| | 8276.0 | 35.6 | 10.5 | 46.1 | 74.0 | -27.9 | Peak | Horizontal |
| * | 10154.5 | 34.9 | 13.4 | 48.3 | 74.0 | -25.7 | Peak | Horizontal |
| | 4808.0 | 48.1 | 1.8 | 49.9 | 74.0 | -24.1 | Peak | Vertical |
| * | 7205.0 | 40.7 | 9.1 | 49.8 | 74.0 | -24.2 | Peak | Vertical |
| | 8403.5 | 35.4 | 10.7 | 46.1 | 74.0 | -27.9 | Peak | Vertical |
| * | 9976.0 | 34.7 | 13.0 | 47.7 | 74.0 | -26.3 | Peak | Vertical |

Note 1: “*” means test frequency didn't fall into restricted band.

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

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | Active Speaker | Test Engineer | Silence Liu |
|---|---|---|---|
| Test Site | NS-AC1 | Test Date | 2021/01/06 |
| Test Mode | 3DH5 | Test Channel | 39 |
| 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 | 49.0 | 1.7 | 50.7 | 74.0 | -23.3 | Peak | Horizontal |
| * | 6117.0 | 36.3 | 5.2 | 41.5 | 74.0 | -32.5 | Peak | Horizontal |
| | 7324.0 | 39.8 | 9.2 | 49.0 | 74.0 | -25.0 | Peak | Horizontal |
| * | 9933.5 | 35.5 | 12.8 | 48.3 | 74.0 | -25.7 | Peak | Horizontal |
| | 4884.5 | 48.3 | 1.7 | 50.0 | 74.0 | -24.0 | Peak | Vertical |
| * | 6414.5 | 37.0 | 5.9 | 42.9 | 74.0 | -31.1 | Peak | Vertical |
| | 7324.0 | 40.5 | 9.2 | 49.7 | 74.0 | -24.3 | Peak | Vertical |
| * | 9976.0 | 35.6 | 13.0 | 48.6 | 74.0 | -25.4 | Peak | Vertical |

Note 1: “*” means test frequency didn't fall into restricted band.

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

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | Active Speaker | Test Engineer | Silence Liu |
|---|---|---|---|
| Test Site | NS-AC1 | Test Date | 2021/01/06 |
| Test Mode | 3DH5 | Test Channel | 78 |
| 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 | 48.5 | 1.8 | 50.3 | 74.0 | -23.7 | Peak | Horizontal |
| * | 6406.0 | 36.9 | 5.8 | 42.7 | 74.0 | -31.3 | Peak | Horizontal |
| | 7443.0 | 37.5 | 9.5 | 47.0 | 74.0 | -27.0 | Peak | Horizontal |
| * | 10197.0 | 35.0 | 13.4 | 48.4 | 74.0 | -25.6 | Peak | Horizontal |
| | 4961.0 | 47.7 | 1.8 | 49.5 | 74.0 | -24.5 | Peak | Vertical |
| * | 6423.0 | 36.4 | 6.0 | 42.4 | 74.0 | -31.6 | Peak | Vertical |
| | 7443.0 | 38.7 | 9.5 | 48.2 | 74.0 | -25.8 | Peak | Vertical |
| * | 10231.0 | 35.5 | 13.2 | 48.7 | 74.0 | -25.3 | Peak | Vertical |

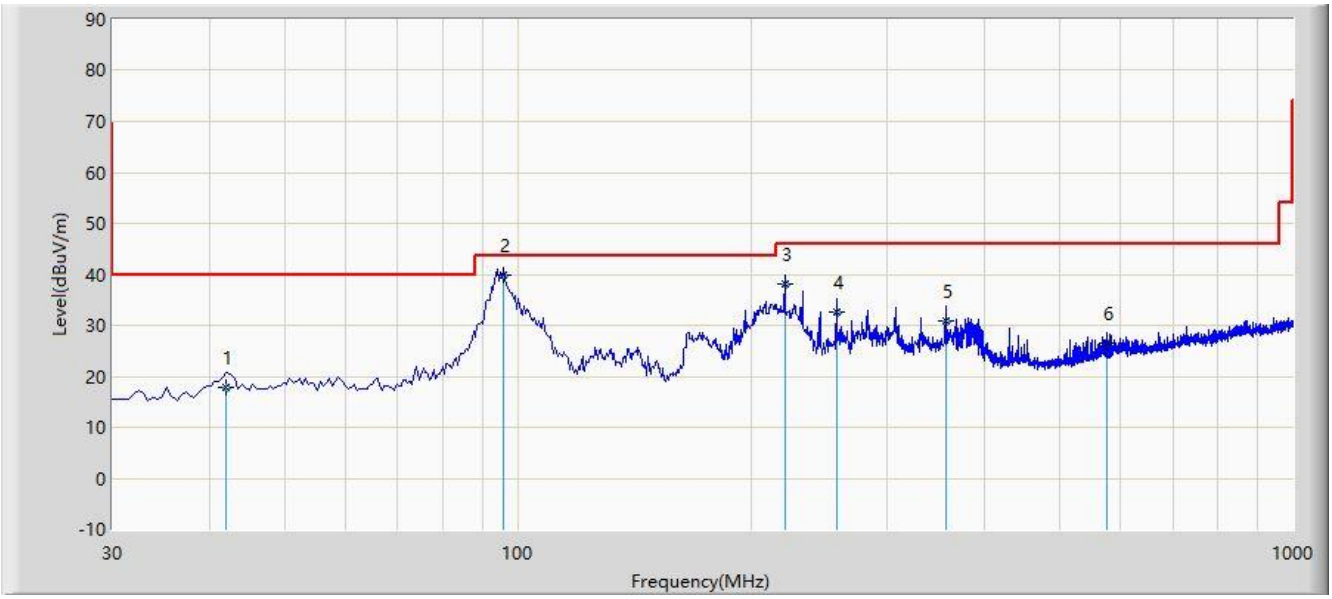
Note 1: “*” means test frequency didn't fall into restricted band.

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 Result of Radiated Emission below 1GHz:**

| | |
|---|---|
| Site: NS-AC1 | Time: 2020/12/29 - 09:27 |
| Limit: FCC_Part 15.209_RE(3m) | Engineer: Sakura Chen |
| Probe: NS-AC1_VULB9162 | Polarity: Horizontal |
| EUT: Active Speaker | Power: AC 120V/60Hz |
| Test Mode: Transmit by DH5 at channel 2441MHz | |



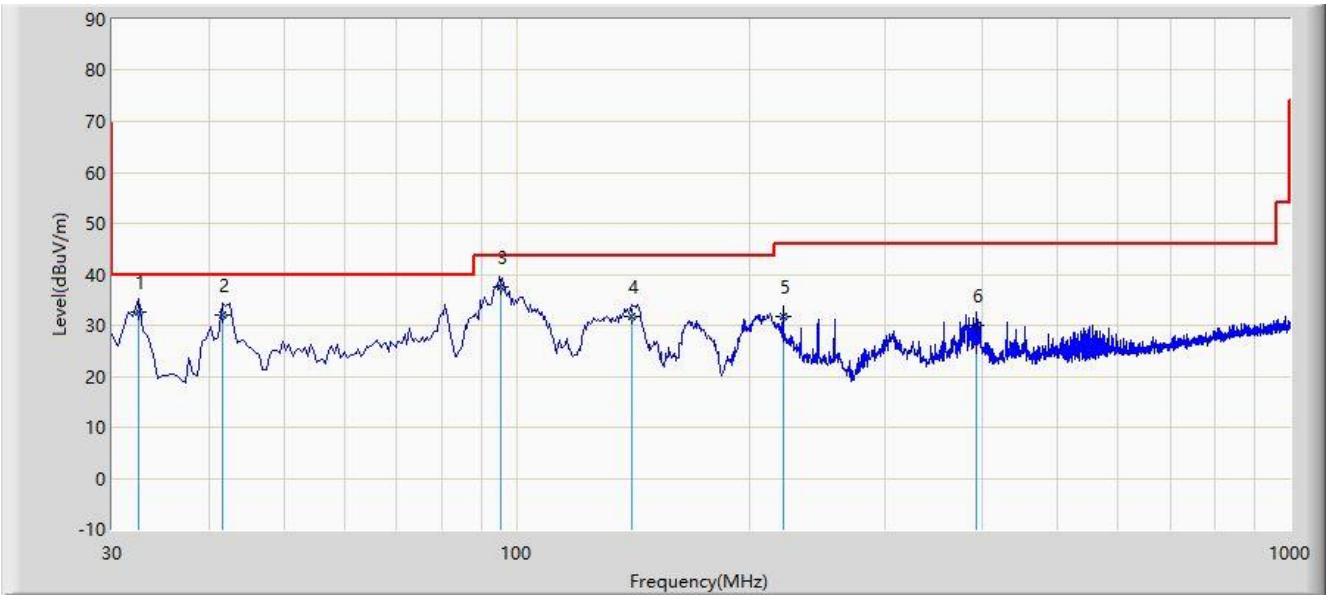

| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 42.125 | 17.864 | -0.751 | -22.136 | 40.000 | 18.615 | QP |
| 2 | | * | 95.990 | 39.824 | 22.800 | -3.676 | 43.500 | 17.024 | QP |
| 3 | | | 221.090 | 37.987 | 20.295 | -8.013 | 46.000 | 17.692 | QP |
| 4 | | | 257.950 | 32.511 | 14.353 | -13.489 | 46.000 | 18.158 | QP |
| 5 | | | 356.405 | 30.987 | 10.627 | -15.013 | 46.000 | 20.360 | QP |
| 6 | | | 576.110 | 26.555 | 2.227 | -19.445 | 46.000 | 24.328 | QP |

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

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

Note 2: The amplitude of radiated emissions (frequency range from 9kHz to 30MHz and 18GHz to 25GHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value. Therefore, the data is not presented in the report.

| | |
|---|---|
| Site: NS-AC1 | Time: 2020/12/29 - 09:36 |
| Limit: FCC_Part 15.209_RE(3m) | Engineer: Sakura Chen |
| Probe: NS-AC1_VULB9162 | Polarity: Vertical |
| EUT: Active Speaker | Power: AC 120V/60Hz |
| Test Mode: Transmit by DH5 at channel 2441MHz | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 32.425 | 32.514 | 16.335 | -7.486 | 40.000 | 16.179 | QP |
| 2 | | | 41.640 | 31.940 | 13.377 | -8.060 | 40.000 | 18.563 | QP |
| 3 | | * | 95.224 | 37.555 | 20.700 | -5.945 | 43.500 | 16.854 | QP |
| 4 | | | 141.065 | 31.730 | 17.838 | -11.770 | 43.500 | 13.891 | QP |
| 5 | | | 221.090 | 31.870 | 14.178 | -14.130 | 46.000 | 17.692 | QP |
| 6 | | | 392.295 | 29.974 | 8.553 | -16.026 | 46.000 | 21.420 | QP |

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

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

Note 2: The amplitude of radiated emissions (frequency range from 9kHz to 30MHz and 18GHz to 25GHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value. Therefore, the data is not presented in the report.

## 6.10. Radiated Restricted Band Edge Measurement

### 6.10.1. Test Limit

**For 15.205 requirement:**

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) of FCC part 15, must also comply with the radiated emission limits specified in Section 15.209(a).

| Frequency (MHz) | Frequency (MHz) | Frequency (MHz) | Frequency (GHz) |
|---|---|---|---|
| 0.090 - 0.110 | 16.42 - 16.423 | 399.9 - 410 | 4.5 - 5.15 |
| [1] 0.495 - 0.505 | 16.69475 - 16.69525 | 608 - 614 | 5.35 - 5.46 |
| 2.1735 - 2.1905 | 16.80425 - 16.80475 | 960 - 1240 | 7.25 - 7.75 |
| 4.125 - 4.128 | 25.5 - 25.67 | 1300 - 1427 | 8.025 - 8.5 |
| 4.17725 - 4.17775 | 37.5 - 38.25 | 1435 - 1626.5 | 9.0 - 9.2 |
| 4.20725 - 4.20775 | 73 - 74.6 | 1645.5 - 1646.5 | 9.3 - 9.5 |
| 6.215 - 6.218 | 74.8 - 75.2 | 1660 - 1710 | 10.6 - 12.7 |
| 6.26775 - 6.26825 | 108 - 121.94 | 1718.8 - 1722.2 | 13.25 - 13.4 |
| 6.31175 - 6.31225 | 123 - 138 | 2200 - 2300 | 14.47 - 14.5 |
| 8.291 - 8.294 | 149.9 - 150.05 | 2310 – 2390 | 15.35 - 16.2 |
| 8.362 - 8.366 | 156.52475 - 156.52525 | 2483.5 - 2500 | 17.7 - 21.4 |
| 8.37625 - 8.38675 | 156.7 - 156.9 | 2690 - 2900 | 22.01 - 23.12 |
| 8.41425 - 8.41475 | 162.0125 - 167.17 | 3260 - 3267 | 23.6 - 24.0 |
| 12.29 - 12.293 | 167.72 - 173.2 | 3332 - 3339 | 31.2 - 31.8 |
| 12.51975 - 12.52025 | 240 - 285 | 3345.8 - 3358 | 36.43 - 36.5 |
| 12.57675 - 12.57725 | 322 - 335.4 | 3600 - 4400 | ([2]) |
| 13.36 - 13.41 | -- | -- | -- |

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 (MHz) | Field Strength (μV/m) | Measured Distance (m) |
| 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 |

### 6.10.2.Test Procedure Used

ANSI C63.10-2013 - Section 6.3 & 6.6 & 6.10

### 6.10.3.Test Setting

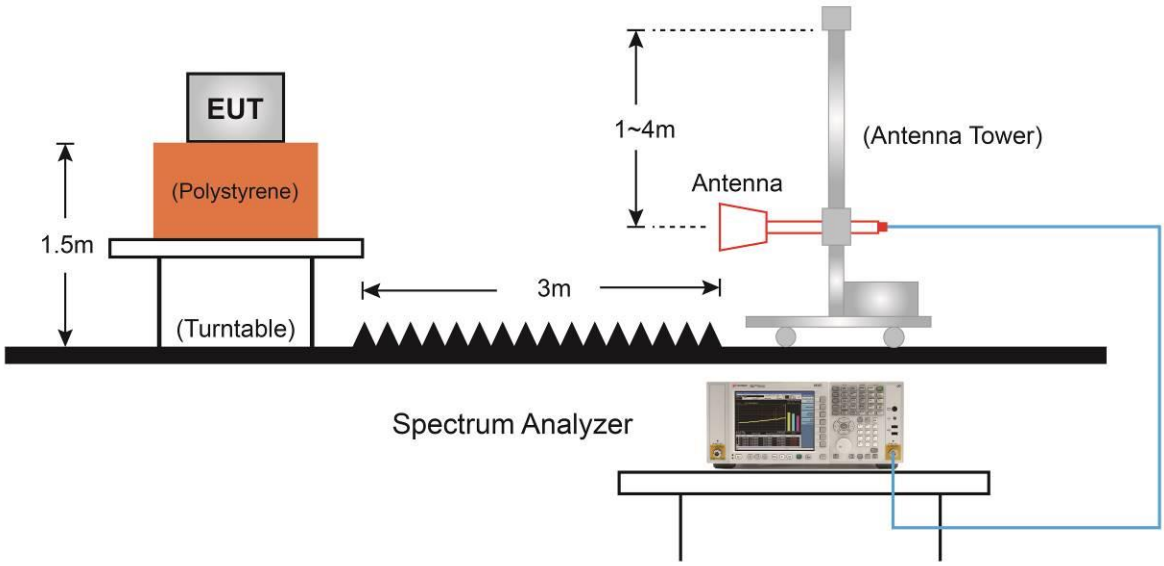
**Peak Field Strength Measurements**

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = Peak
5. Sweep time = Auto couple
6. Trace mode = Max hold
7. Trace was allowed to stabilize

**Average Measurements above 1GHz (Method VB)**

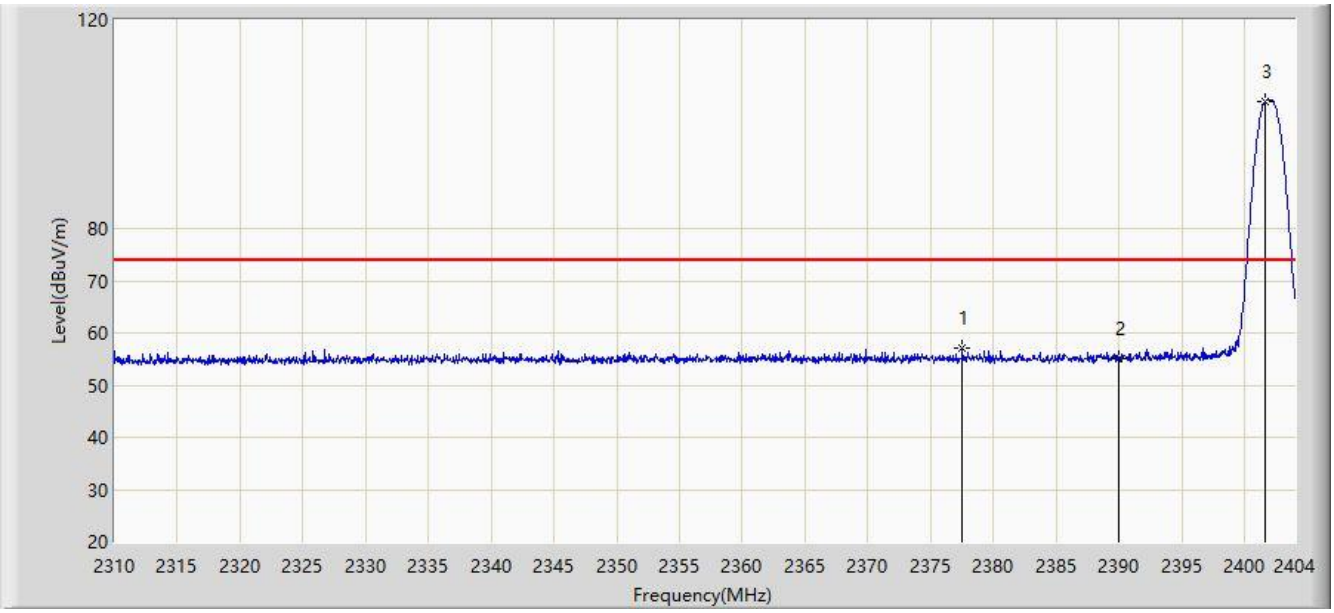
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW; If the EUT is configured to transmit with duty cycle ≥ 98%, set VBW = 10Hz
4. If the EUT duty cycle is < 98%, set VBW ≥ 1/T. T is the minimum transmission duration
5. Detector = Peak
6. Sweep time = Auto
7. Trace mode = Max hold
8. Trace was allowed to stabilize

### 6.10.4.Test Setup



### 6.10.5.Test Result

| | |
|---|---|
| Site: NS-AC1 | Time: 2021/01/06 - 13:05 |
| Limit: FCC_Part 15_209_RE(3m) | Engineer: Silence Liu |
| Probe: NS-AC1_BBHA9120D_2111 | Polarity: Horizontal |
| EUT: Active Speaker | Power: AC 120V/60Hz |
| Test Mode: Transmit by DH5 at channel 2402MHz | |

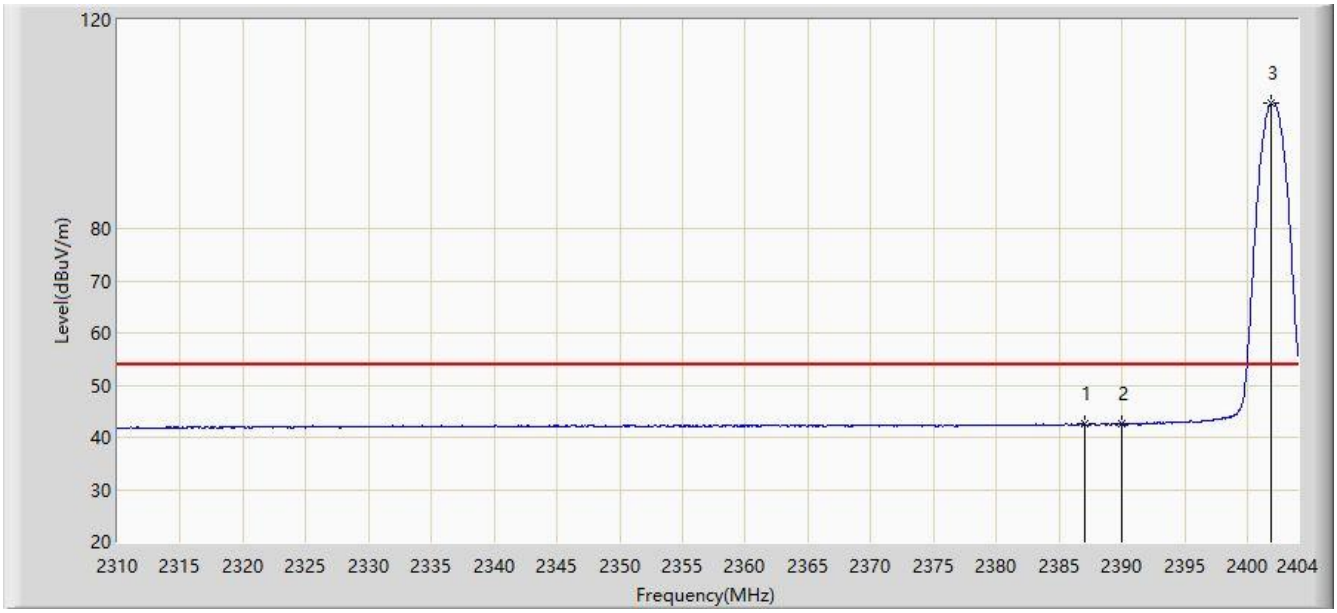



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2377.539 | 57.111 | 27.649 | -16.889 | 74.000 | 29.463 | PK |
| 2 | | | 2390.000 | 55.163 | 25.681 | -18.837 | 74.000 | 29.482 | PK |
| 3 | | * | 2401.650 | 104.344 | 74.833 | N/A | N/A | 29.512 | PK |

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

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

| | |
|---|---|
| Site: NS-AC1 | Time: 2021/01/06 - 13:17 |
| Limit: FCC_Part 15_209_RE(3m) | Engineer: Silence Liu |
| Probe: NS-AC1_BBHA9120D_2111 | Polarity: Horizontal |
| EUT: Active Speaker | Power: AC 120V/60Hz |
| Test Mode: Transmit by DH5 at channel 2402MHz | |

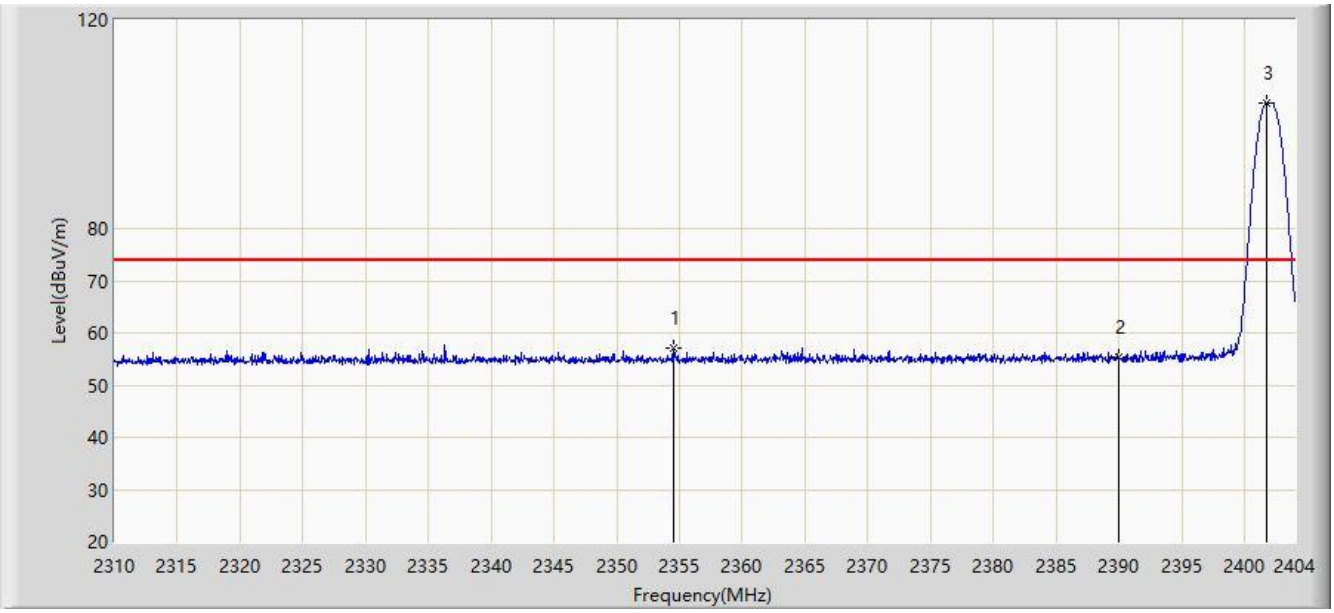



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2386.986 | 42.597 | 13.120 | -11.403 | 54.000 | 29.477 | AV |
| 2 | | | 2390.000 | 42.479 | 12.997 | -11.521 | 54.000 | 29.482 | AV |
| 3 | | * | 2401.885 | 104.019 | 74.507 | N/A | N/A | 29.512 | AV |

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

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

| | |
|---|---|
| Site: NS-AC1 | Time: 2021/01/06 - 13:19 |
| Limit: FCC_Part 15_209_RE(3m) | Engineer: Silence Liu |
| Probe: NS-AC1_BBHA9120D_2111 | Polarity: Vertical |
| EUT: Active Speaker | Power: AC 120V/60Hz |
| Test Mode: Transmit by DH5 at channel 2402MHz | |

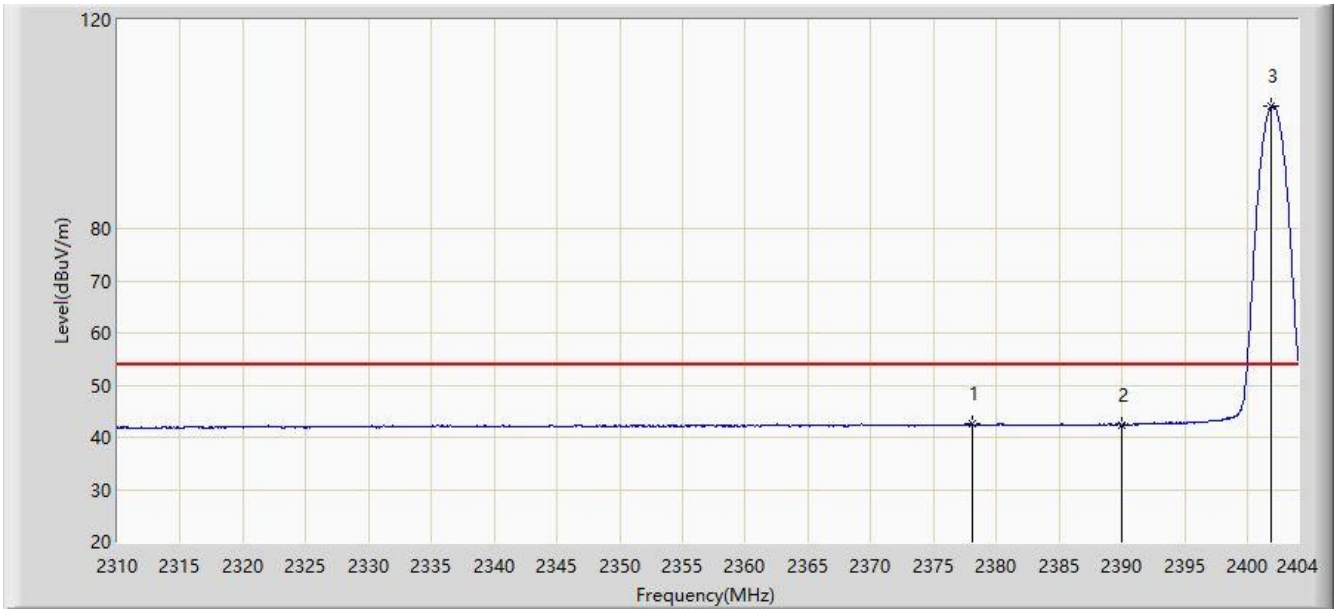



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2354.509 | 57.034 | 27.616 | -16.966 | 74.000 | 29.418 | PK |
| 2 | | | 2390.000 | 55.389 | 25.907 | -18.611 | 74.000 | 29.482 | PK |
| 3 | | * | 2401.744 | 104.066 | 74.555 | N/A | N/A | 29.512 | PK |

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

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

| | |
|---|---|
| Site: NS-AC1 | Time: 2021/01/06 - 13:21 |
| Limit: FCC_Part 15_209_RE(3m) | Engineer: Silence Liu |
| Probe: NS-AC1_BBHA9120D_2111 | Polarity: Vertical |
| EUT: Active Speaker | Power: AC 120V/60Hz |
| Test Mode: Transmit by DH5 at channel 2402MHz | |

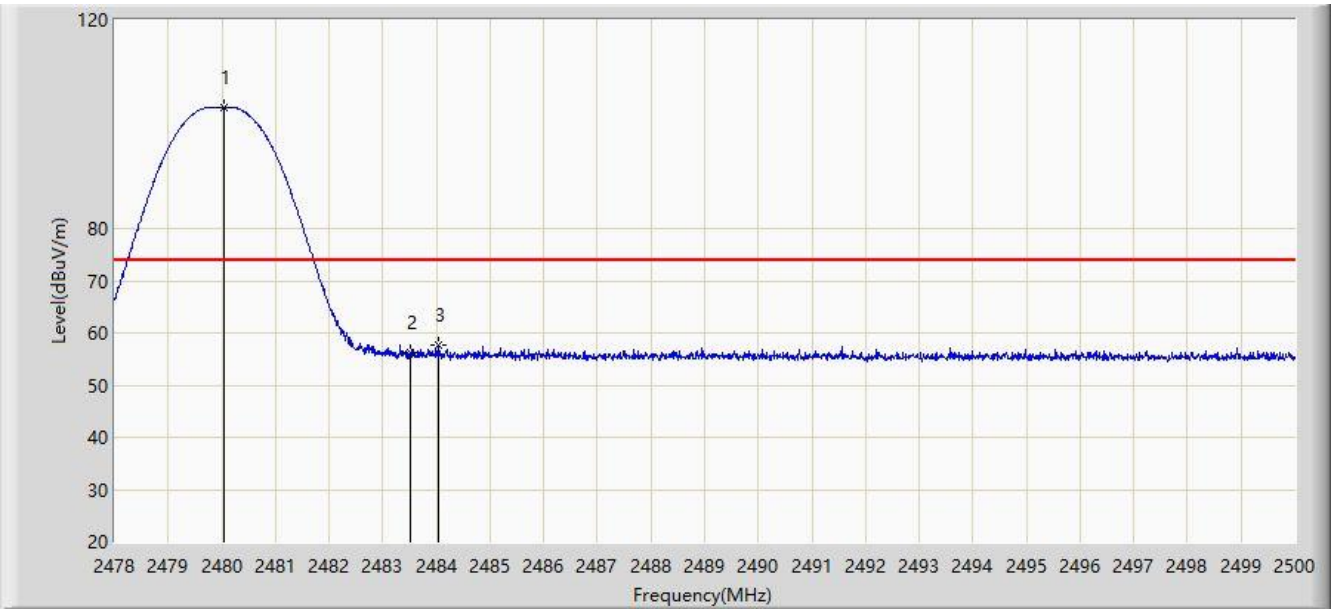



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2378.103 | 42.567 | 13.104 | -11.433 | 54.000 | 29.463 | AV |
| 2 | | | 2390.000 | 42.374 | 12.892 | -11.626 | 54.000 | 29.482 | AV |
| 3 | | * | 2401.932 | 103.465 | 73.953 | N/A | N/A | 29.512 | AV |

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

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

| | |
|---|---|
| Site: NS-AC1 | Time: 2021/01/07 - 09:36 |
| Limit: FCC_Part 15_209_RE(3m) | Engineer: Silence Liu |
| Probe: NS-AC1_BBHA9120D_2111 | Polarity: Horizontal |
| EUT: Active Speaker | Power: AC 120V/60Hz |
| Test Mode: Transmit by DH5 at channel 2480MHz | |

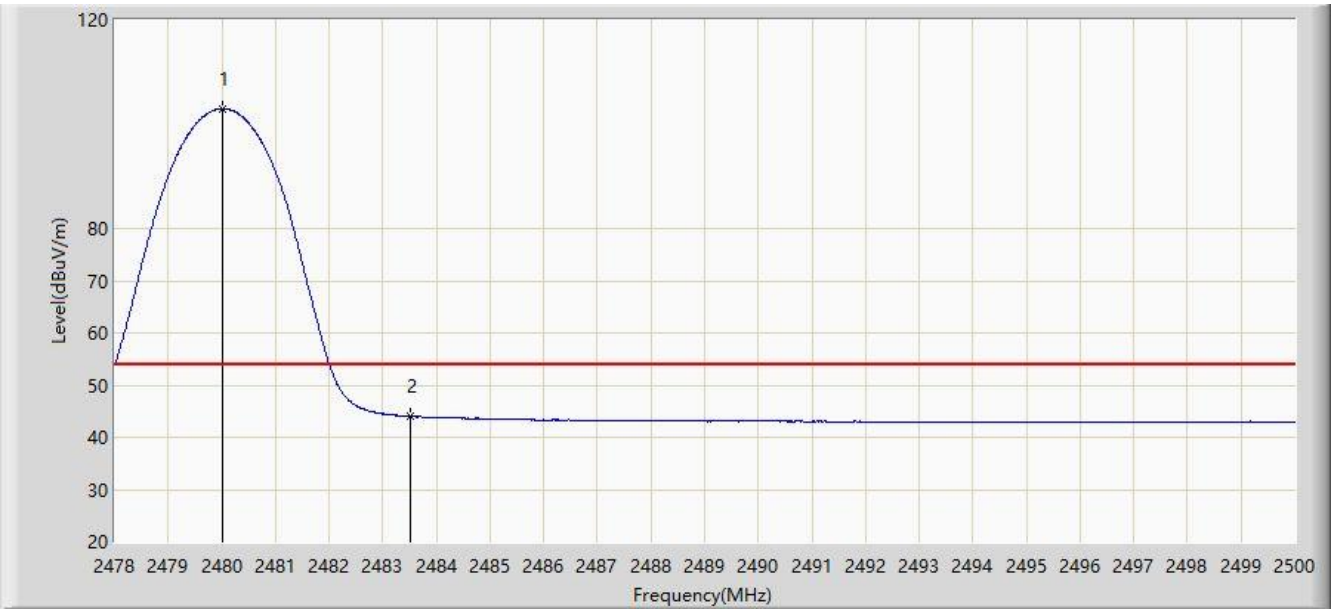



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2480.046 | 103.252 | 73.591 | N/A | N/A | 29.661 | PK |
| 2 | | | 2483.500 | 56.345 | 26.683 | -17.655 | 74.000 | 29.662 | PK |
| 3 | | | 2484.039 | 57.677 | 28.015 | -16.323 | 74.000 | 29.662 | PK |

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

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

| | |
|---|---|
| Site: NS-AC1 | Time: 2021/01/07 - 09:56 |
| Limit: FCC_Part 15_209_RE(3m) | Engineer: Silence Liu |
| Probe: NS-AC1_BBHA9120D_2111 | Polarity: Horizontal |
| EUT: Active Speaker | Power: AC 120V/60Hz |
| Test Mode: Transmit by DH5 at channel 2480MHz | |

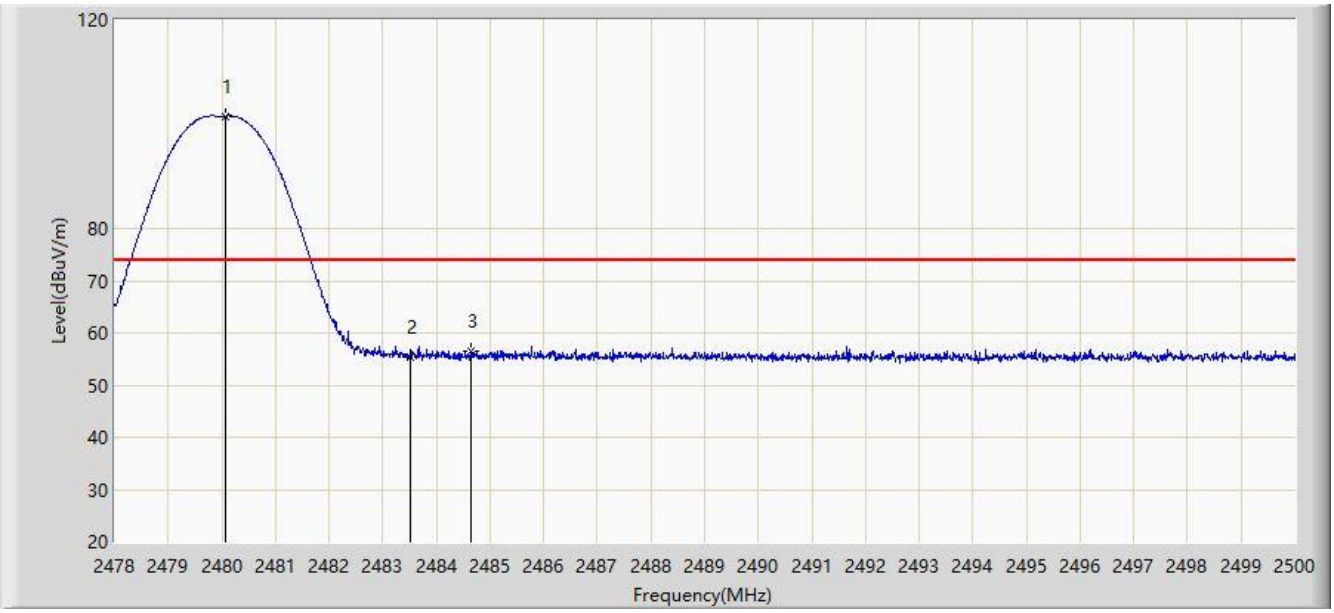



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2480.013 | 102.971 | 73.310 | N/A | N/A | 29.661 | AV |
| 2 | | | 2483.500 | 44.031 | 14.369 | -9.969 | 54.000 | 29.662 | AV |

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

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

| | |
|---|---|
| Site: NS-AC1 | Time: 2021/01/07 - 10:01 |
| Limit: FCC_Part 15_209_RE(3m) | Engineer: Silence Liu |
| Probe: NS-AC1_BBHA9120D_2111 | Polarity: Vertical |
| EUT: Active Speaker | Power: AC 120V/60Hz |
| Test Mode: Transmit by DH5 at channel 2480MHz | |

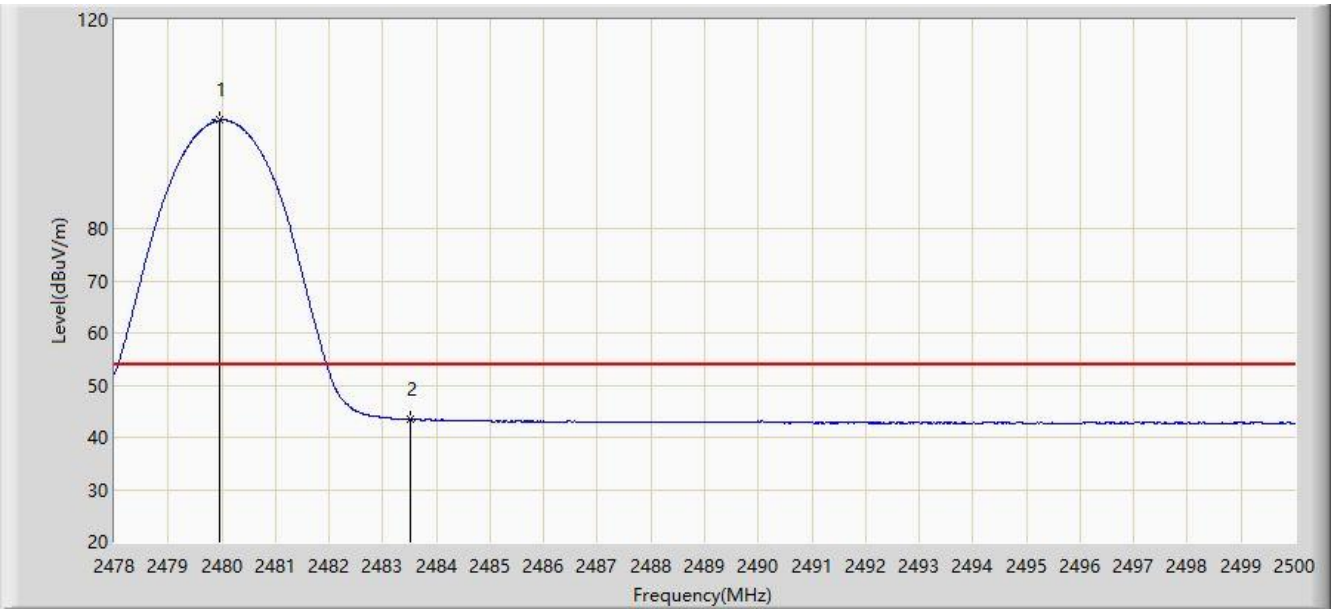



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2480.079 | 101.582 | 71.921 | N/A | N/A | 29.661 | PK |
| 2 | | | 2483.500 | 55.500 | 25.838 | -18.500 | 74.000 | 29.662 | PK |
| 3 | | | 2484.633 | 56.558 | 26.896 | -17.442 | 74.000 | 29.662 | PK |

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

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

| | |
|---|---|
| Site: NS-AC1 | Time: 2021/01/07 - 10:04 |
| Limit: FCC_Part 15_209_RE(3m) | Engineer: Silence Liu |
| Probe: NS-AC1_BBHA9120D_2111 | Polarity: Vertical |
| EUT: Active Speaker | Power: AC 120V/60Hz |
| Test Mode: Transmit by DH5 at channel 2480MHz | |

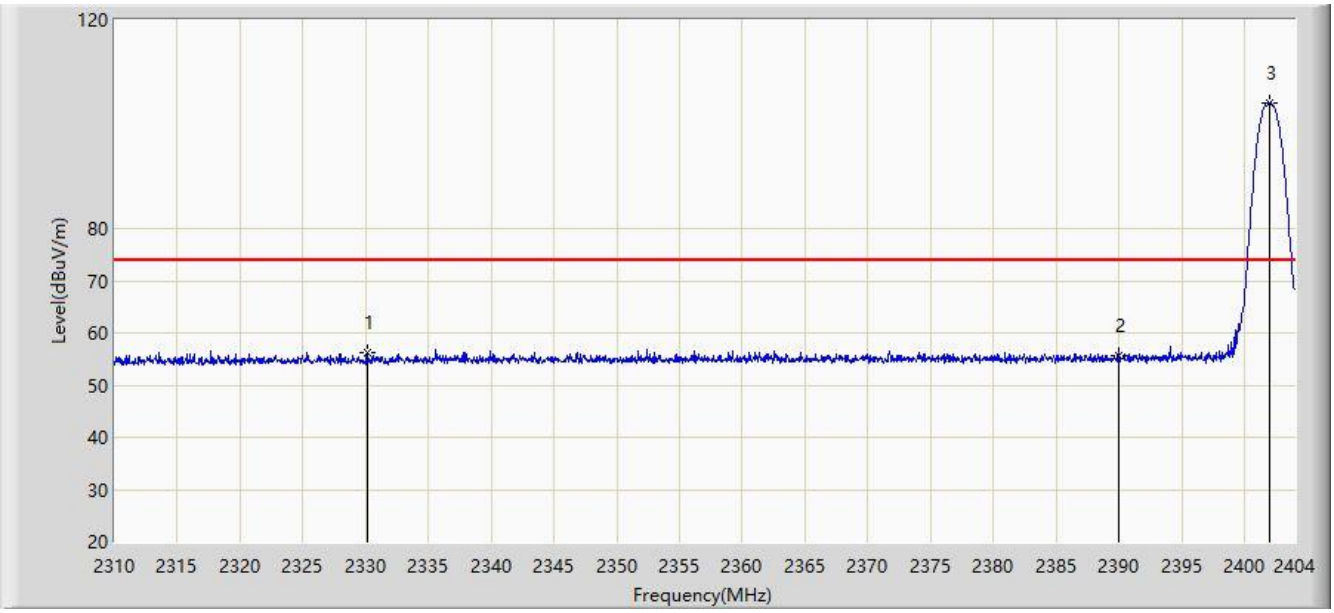



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2479.969 | 100.745 | 71.084 | N/A | N/A | 29.661 | AV |
| 2 | | | 2483.500 | 43.526 | 13.864 | -10.474 | 54.000 | 29.662 | AV |

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

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

| | |
|---|---|
| Site: NS-AC1 | Time: 2021/01/07 - 17:11 |
| Limit: FCC_Part 15_209_RE(3m) | Engineer: Silence Liu |
| Probe: NS-AC1_BBHA9120D_2111 | Polarity: Horizontal |
| EUT: Active Speaker | Power: AC 120V/60Hz |
| Test Mode: Transmit by 2DH5 at channel 2402MHz | |

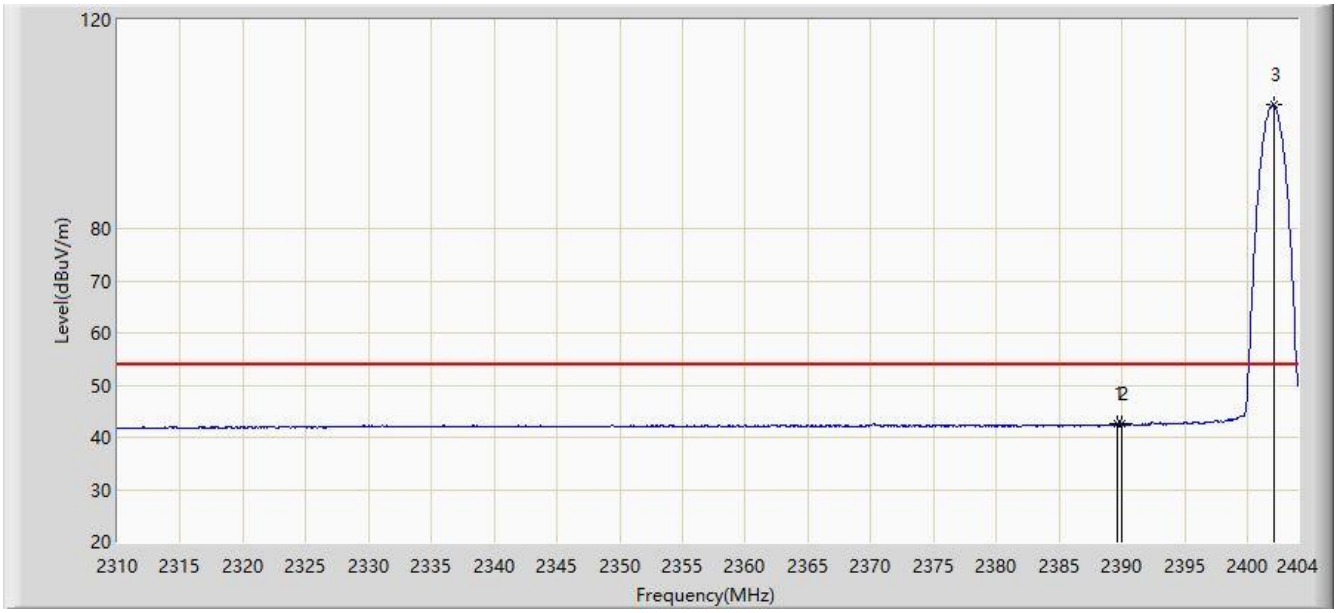



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2330.116 | 56.241 | 26.861 | -17.759 | 74.000 | 29.380 | PK |
| 2 | | | 2390.000 | 55.596 | 26.114 | -18.404 | 74.000 | 29.482 | PK |
| 3 | | * | 2401.979 | 104.016 | 74.504 | N/A | N/A | 29.512 | PK |

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

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

| | |
|---|---|
| Site: NS-AC1 | Time: 2021/01/07 - 17:16 |
| Limit: FCC_Part 15_209_RE(3m) | Engineer: Silence Liu |
| Probe: NS-AC1_BBHA9120D_2111 | Polarity: Horizontal |
| EUT: Active Speaker | Power: AC 120V/60Hz |
| Test Mode: Transmit by 2DH5 at channel 2402MHz | |

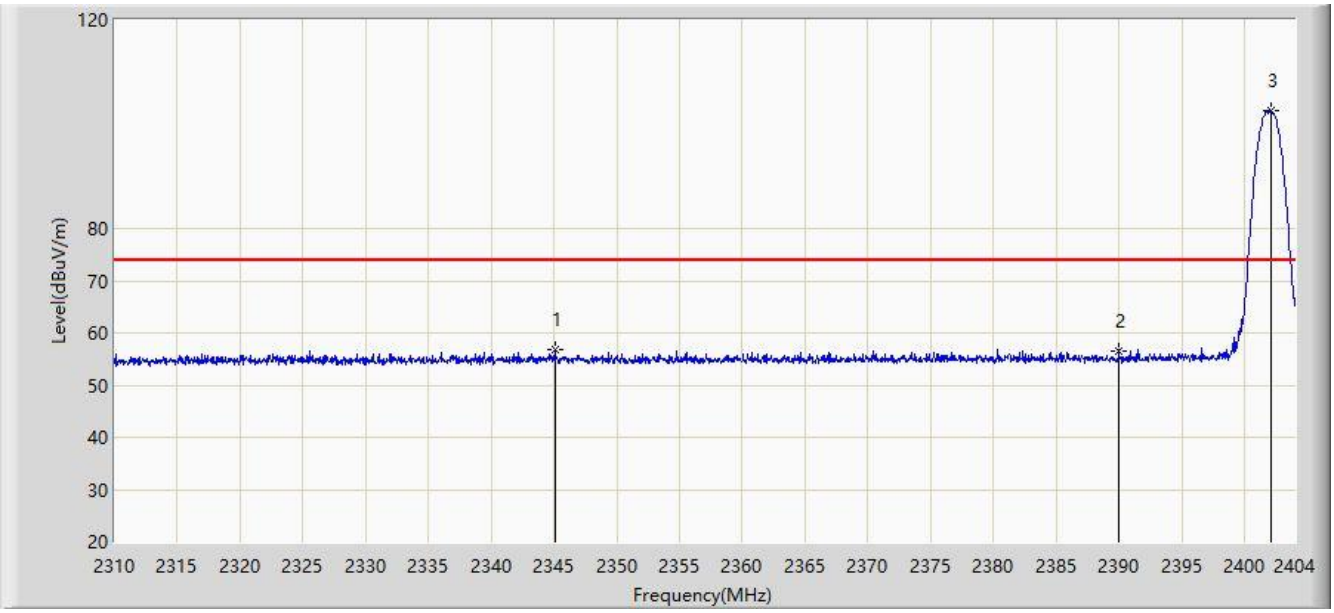



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2389.571 | 42.547 | 13.066 | -11.453 | 54.000 | 29.482 | AV |
| 2 | | | 2390.000 | 42.512 | 13.030 | -11.488 | 54.000 | 29.482 | AV |
| 3 | | * | 2402.073 | 103.637 | 74.125 | N/A | N/A | 29.512 | AV |

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

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

| | |
|---|---|
| Site: NS-AC1 | Time: 2021/01/07 - 17:17 |
| Limit: FCC_Part 15_209_RE(3m) | Engineer: Silence Liu |
| Probe: NS-AC1_BBHA9120D_2111 | Polarity: Vertical |
| EUT: Active Speaker | Power: AC 120V/60Hz |
| Test Mode: Transmit by 2DH5 at channel 2402MHz | |

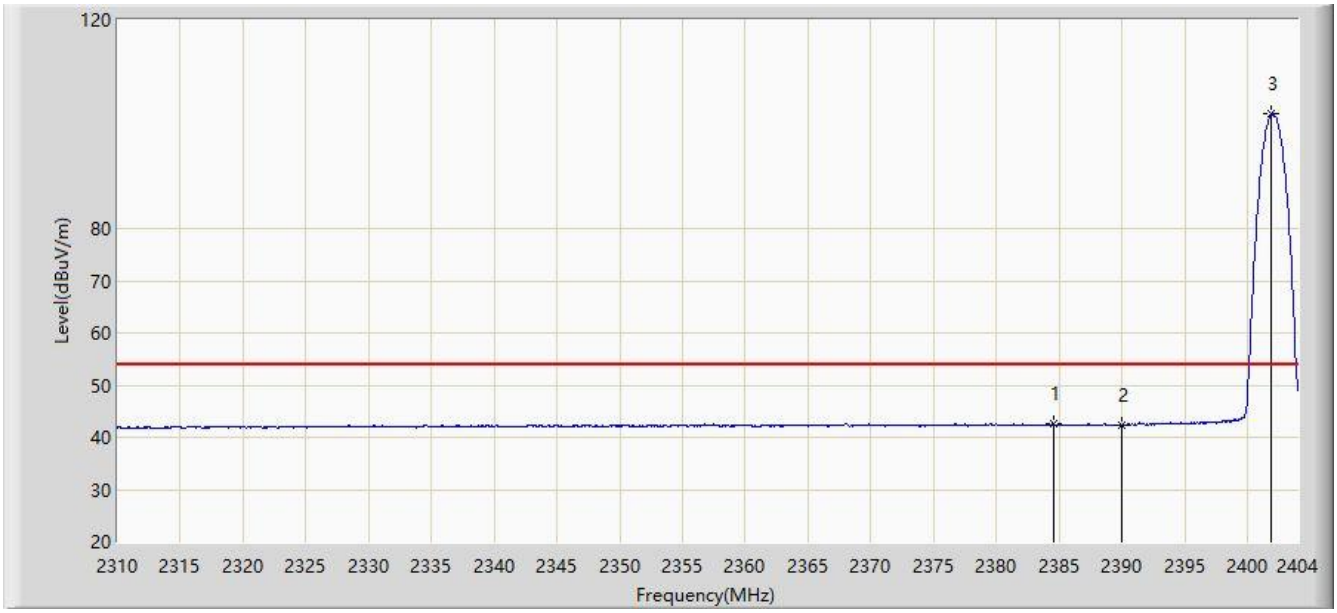



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2345.062 | 56.678 | 27.275 | -17.322 | 74.000 | 29.403 | PK |
| 2 | | | 2390.000 | 56.528 | 27.046 | -17.472 | 74.000 | 29.482 | PK |
| 3 | | * | 2402.073 | 102.478 | 72.966 | N/A | N/A | 29.512 | PK |

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

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

| | |
|---|---|
| Site: NS-AC1 | Time: 2021/01/07 - 17:20 |
| Limit: FCC_Part 15_209_RE(3m) | Engineer: Silence Liu |
| Probe: NS-AC1_BBHA9120D_2111 | Polarity: Vertical |
| EUT: Active Speaker | Power: AC 120V/60Hz |
| Test Mode: Transmit by 2DH5 at channel 2402MHz | |

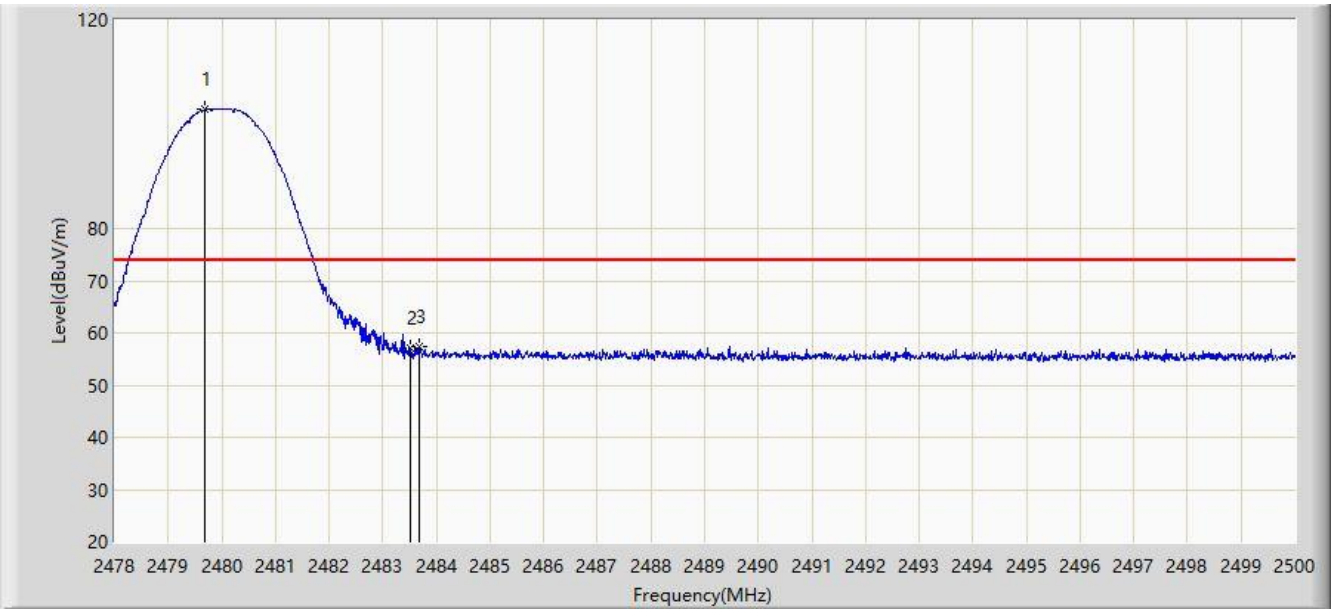



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2384.542 | 42.629 | 13.156 | -11.371 | 54.000 | 29.474 | AV |
| 2 | | | 2390.000 | 42.348 | 12.866 | -11.652 | 54.000 | 29.482 | AV |
| 3 | | * | 2401.932 | 101.889 | 72.377 | N/A | N/A | 29.512 | AV |

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

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

| | |
|---|---|
| Site: NS-AC1 | Time: 2021/01/07 - 17:21 |
| Limit: FCC_Part 15_209_RE(3m) | Engineer: Silence Liu |
| Probe: NS-AC1_BBHA9120D_2111 | Polarity: Horizontal |
| EUT: Active Speaker | Power: AC 120V/60Hz |
| Test Mode: Transmit by 2DH5 at channel 2480MHz | |

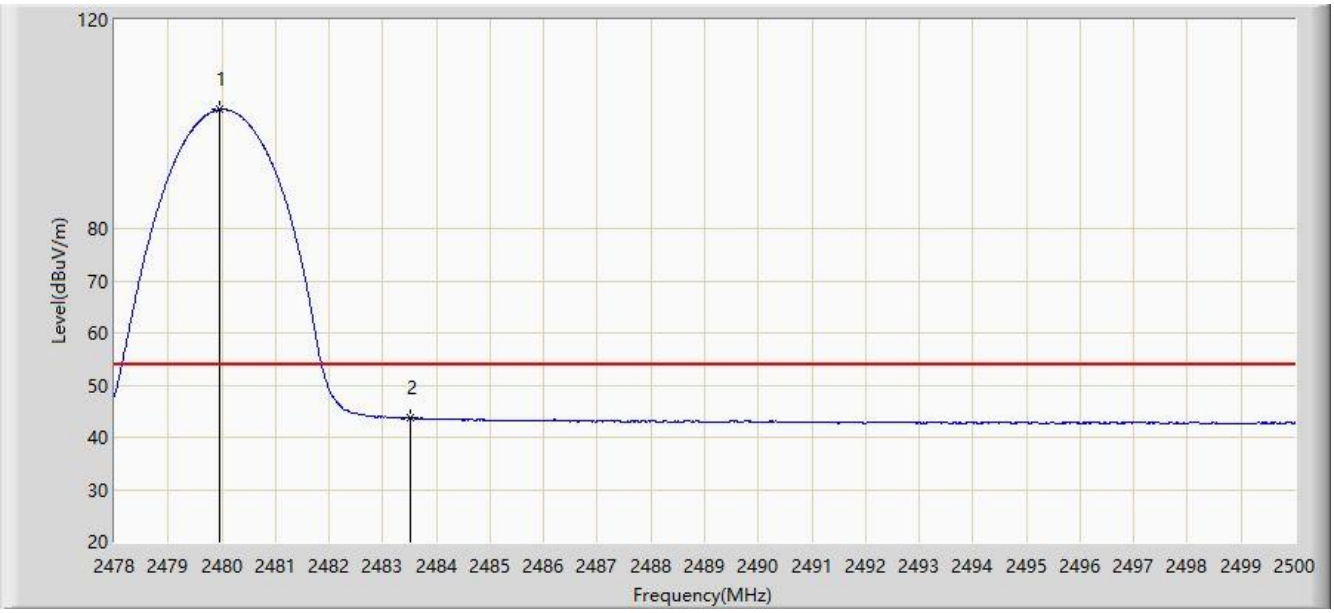



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2479.683 | 102.817 | 73.156 | N/A | N/A | 29.661 | PK |
| 2 | | | 2483.500 | 57.060 | 27.398 | -16.940 | 74.000 | 29.662 | PK |
| 3 | | | 2483.687 | 57.382 | 27.720 | -16.618 | 74.000 | 29.662 | PK |

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

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

| | |
|---|---|
| Site: NS-AC1 | Time: 2021/01/07 - 17:26 |
| Limit: FCC_Part 15_209_RE(3m) | Engineer: Silence Liu |
| Probe: NS-AC1_BBHA9120D_2111 | Polarity: Horizontal |
| EUT: Active Speaker | Power: AC 120V/60Hz |
| Test Mode: Transmit by 2DH5 at channel 2480MHz | |

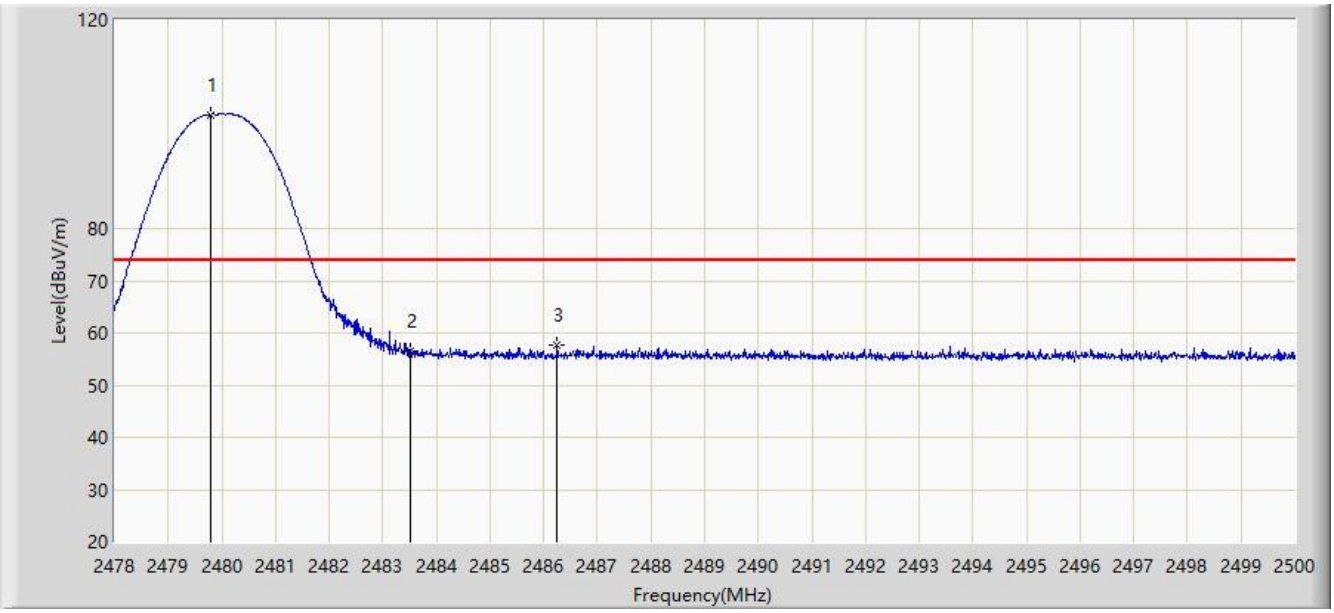



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2479.947 | 102.781 | 73.120 | N/A | N/A | 29.661 | AV |
| 2 | | | 2483.500 | 43.665 | 14.003 | -10.335 | 54.000 | 29.662 | AV |

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

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

| | |
|---|---|
| Site: NS-AC1 | Time: 2021/01/07 - 17:27 |
| Limit: FCC_Part 15_209_RE(3m) | Engineer: Silence Liu |
| Probe: NS-AC1_BBHA9120D_2111 | Polarity: Vertical |
| EUT: Active Speaker | Power: AC 120V/60Hz |
| Test Mode: Transmit by 2DH5 at channel 2480MHz | |

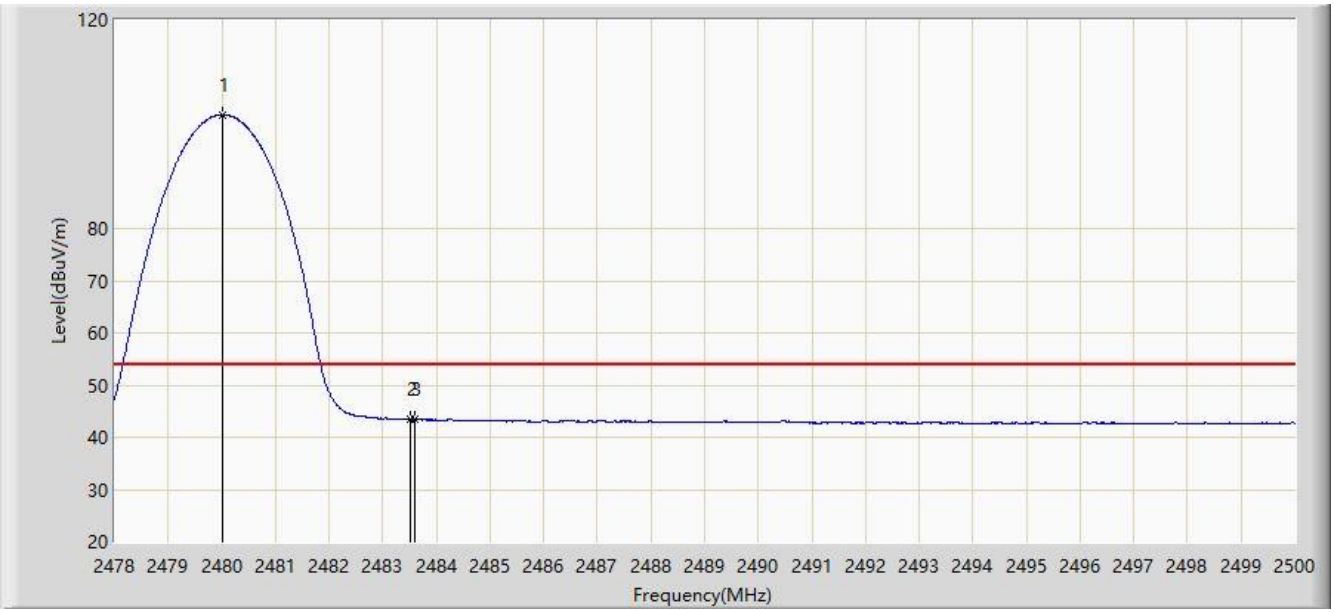



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2479.804 | 101.854 | 72.193 | N/A | N/A | 29.661 | PK |
| 2 | | | 2483.500 | 56.647 | 26.985 | -17.353 | 74.000 | 29.662 | PK |
| 3 | | | 2486.250 | 57.599 | 27.937 | -16.401 | 74.000 | 29.662 | PK |

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

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

| | |
|---|---|
| Site: NS-AC1 | Time: 2021/01/07 - 17:30 |
| Limit: FCC_Part 15_209_RE(3m) | Engineer: Silence Liu |
| Probe: NS-AC1_BBHA9120D_2111 | Polarity: Vertical |
| EUT: Active Speaker | Power: AC 120V/60Hz |
| Test Mode: Transmit by 2DH5 at channel 2480MHz | |

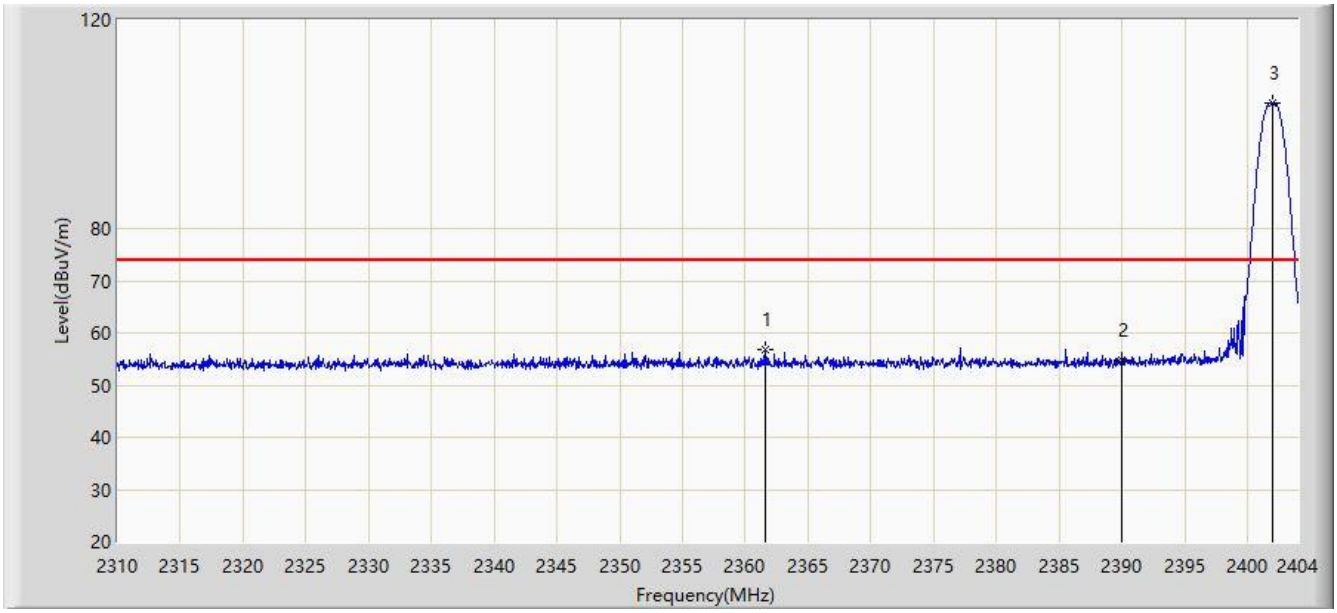



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2480.024 | 101.833 | 72.172 | N/A | N/A | 29.661 | AV |
| 2 | | | 2483.500 | 43.501 | 13.839 | -10.499 | 54.000 | 29.662 | AV |
| 3 | | | 2483.588 | 43.507 | 13.845 | -10.493 | 54.000 | 29.662 | AV |

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

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

| | |
|---|---|
| Site: NS-AC1 | Time: 2021/01/07 - 17:31 |
| Limit: FCC_Part 15_209_RE(3m) | Engineer: Silence Liu |
| Probe: NS-AC1_BBHA9120D_2111 | Polarity: Horizontal |
| EUT: Active Speaker | Power: AC 120V/60Hz |
| Test Mode: Transmit by 3DH5 at channel 2402MHz | |

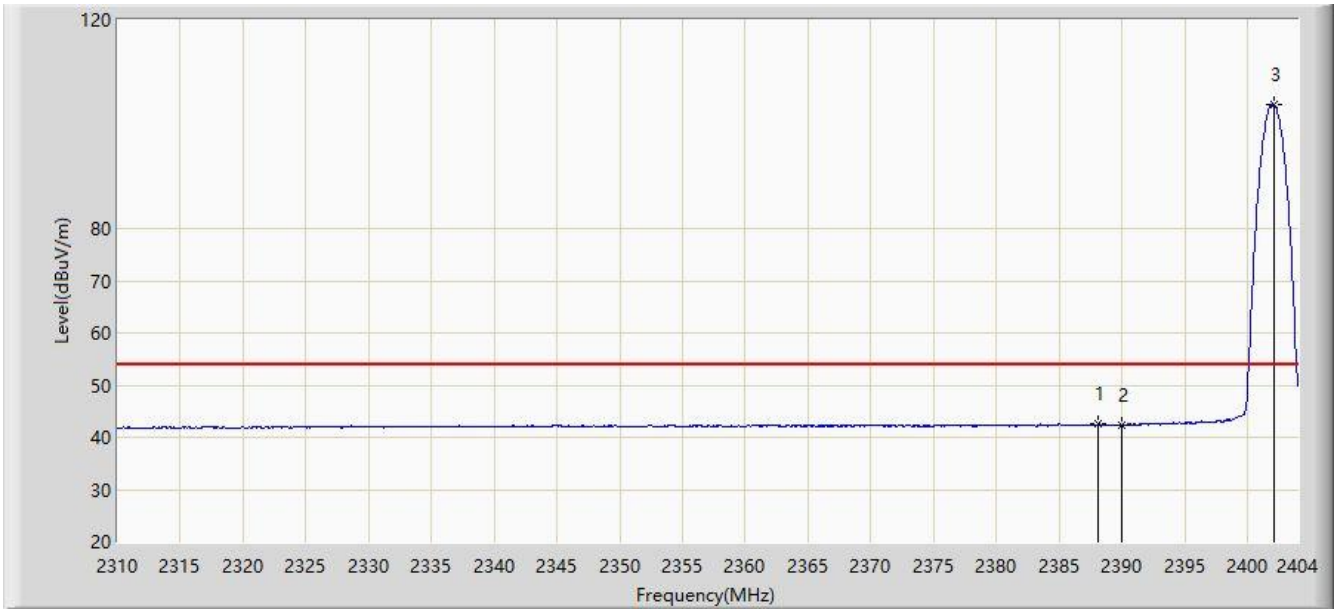



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2361.606 | 56.787 | 27.358 | -17.213 | 74.000 | 29.430 | PK |
| 2 | | | 2390.000 | 54.741 | 25.259 | -19.259 | 74.000 | 29.482 | PK |
| 3 | | * | 2401.979 | 104.029 | 74.517 | N/A | N/A | 29.512 | PK |

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

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

| | |
|---|---|
| Site: NS-AC1 | Time: 2021/01/07 - 17:36 |
| Limit: FCC_Part 15_209_RE(3m) | Engineer: Silence Liu |
| Probe: NS-AC1_BBHA9120D_2111 | Polarity: Horizontal |
| EUT: Active Speaker | Power: AC 120V/60Hz |
| Test Mode: Transmit by 3DH5 at channel 2402MHz | |

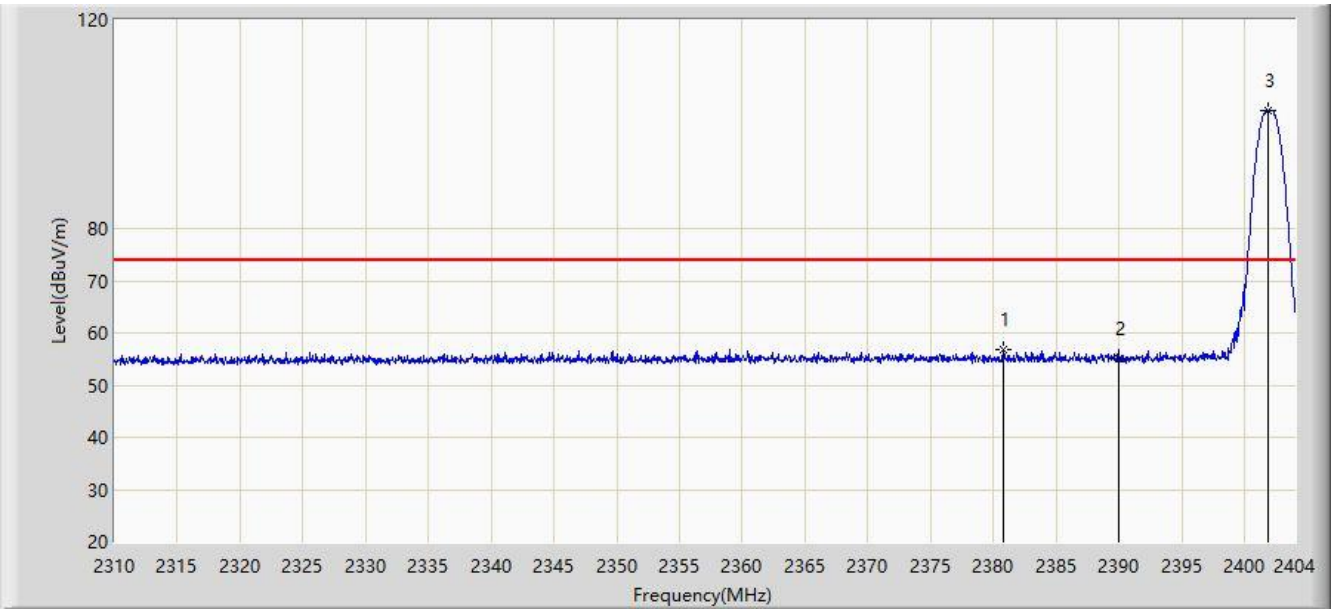



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2388.114 | 42.605 | 13.126 | -11.395 | 54.000 | 29.479 | AV |
| 2 | | | 2390.000 | 42.313 | 12.831 | -11.687 | 54.000 | 29.482 | AV |
| 3 | | * | 2402.073 | 103.858 | 74.346 | N/A | N/A | 29.512 | AV |

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

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

| | |
|---|---|
| Site: NS-AC1 | Time: 2021/01/07 - 17:37 |
| Limit: FCC_Part 15_209_RE(3m) | Engineer: Silence Liu |
| Probe: NS-AC1_BBHA9120D_2111 | Polarity: Vertical |
| EUT: Active Speaker | Power: AC 120V/60Hz |
| Test Mode: Transmit by 3DH5 at channel 2402MHz | |

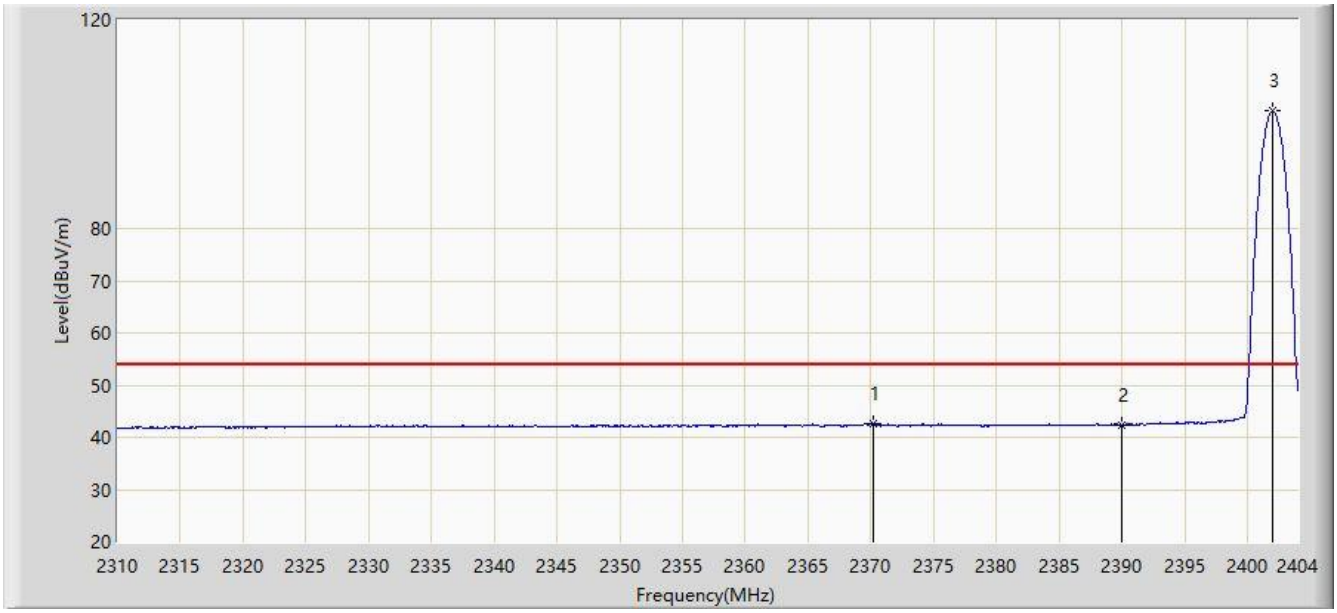



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2380.829 | 56.880 | 27.412 | -17.120 | 74.000 | 29.468 | PK |
| 2 | | | 2390.000 | 55.030 | 25.548 | -18.970 | 74.000 | 29.482 | PK |
| 3 | | * | 2401.885 | 102.603 | 73.091 | N/A | N/A | 29.512 | PK |

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

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

| | |
|---|---|
| Site: NS-AC1 | Time: 2021/01/07 - 17:39 |
| Limit: FCC_Part 15_209_RE(3m) | Engineer: Silence Liu |
| Probe: NS-AC1_BBHA9120D_2111 | Polarity: Vertical |
| EUT: Active Speaker | Power: AC 120V/60Hz |
| Test Mode: Transmit by 3DH5 at channel 2402MHz | |

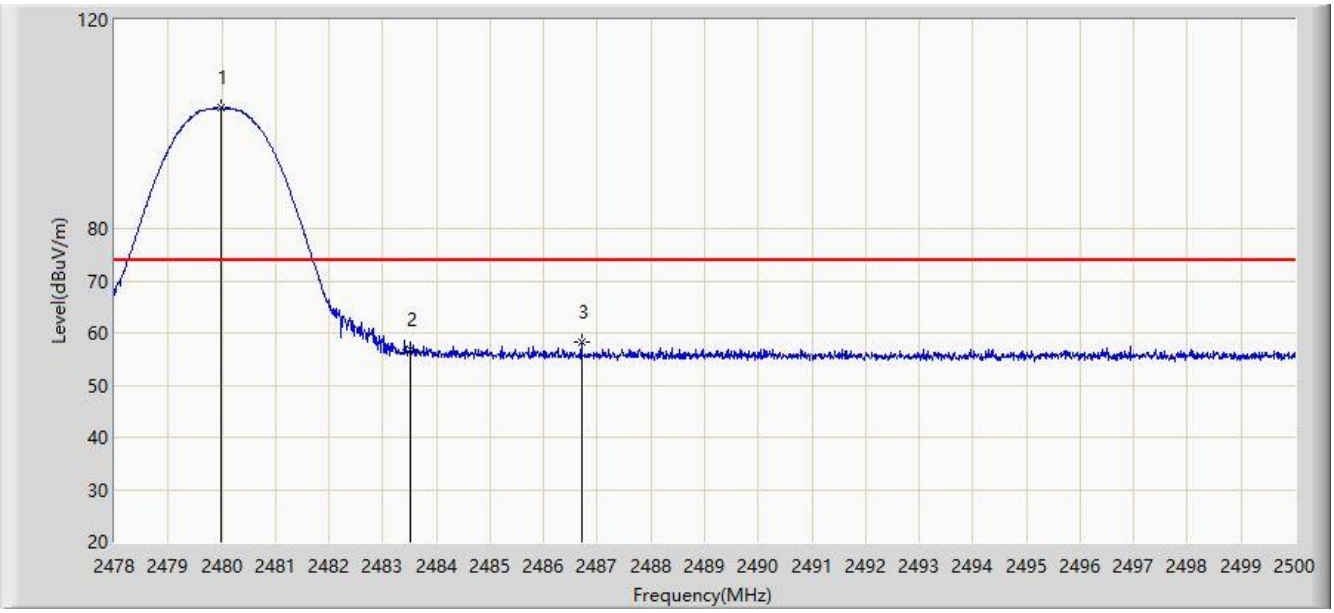



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2370.160 | 42.626 | 13.179 | -11.374 | 54.000 | 29.447 | AV |
| 2 | | | 2390.000 | 42.333 | 12.851 | -11.667 | 54.000 | 29.482 | AV |
| 3 | | * | 2401.979 | 102.465 | 72.953 | N/A | N/A | 29.512 | AV |

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

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

| | |
|---|---|
| Site: NS-AC1 | Time: 2021/01/07 - 17:40 |
| Limit: FCC_Part 15_209_RE(3m) | Engineer: Silence Liu |
| Probe: NS-AC1_BBHA9120D_2111 | Polarity: Horizontal |
| EUT: Active Speaker | Power: AC 120V/60Hz |
| Test Mode: Transmit by 3DH5 at channel 2480MHz | |

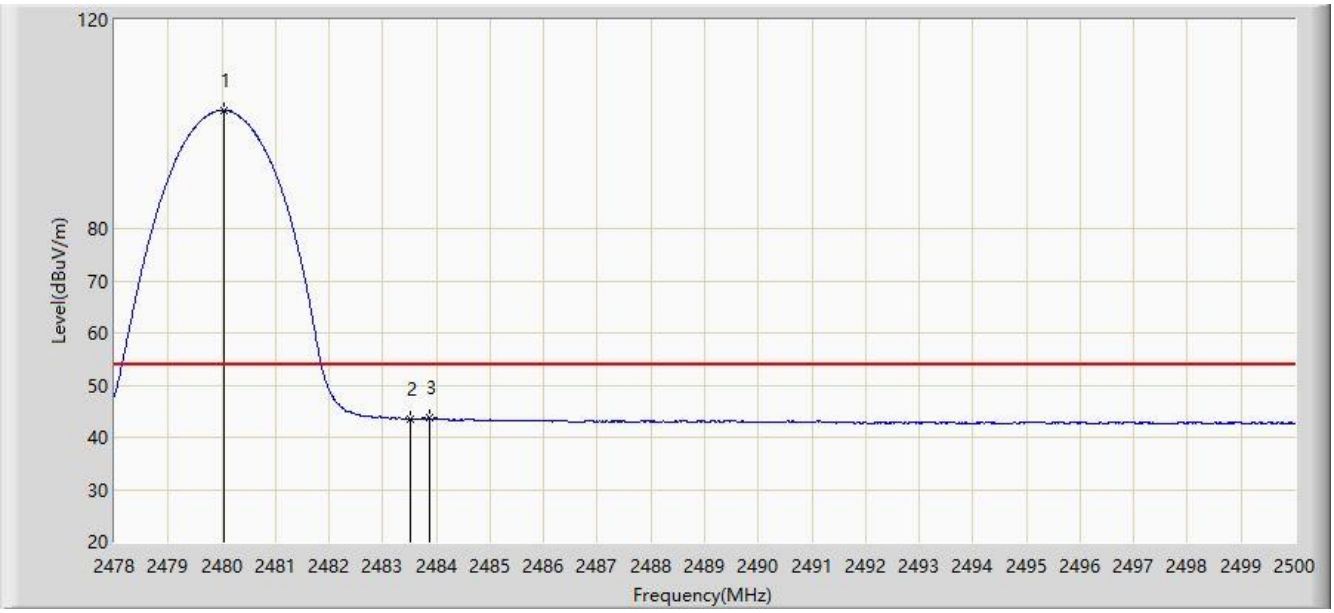



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2479.980 | 103.096 | 73.435 | N/A | N/A | 29.661 | PK |
| 2 | | | 2483.500 | 56.716 | 27.054 | -17.284 | 74.000 | 29.662 | PK |
| 3 | | | 2486.701 | 58.212 | 28.549 | -15.788 | 74.000 | 29.663 | PK |

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

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

| | |
|---|---|
| Site: NS-AC1 | Time: 2021/01/07 - 17:44 |
| Limit: FCC_Part 15_209_RE(3m) | Engineer: Silence Liu |
| Probe: NS-AC1_BBHA9120D_2111 | Polarity: Horizontal |
| EUT: Active Speaker | Power: AC 120V/60Hz |
| Test Mode: Transmit by 3DH5 at channel 2480MHz | |

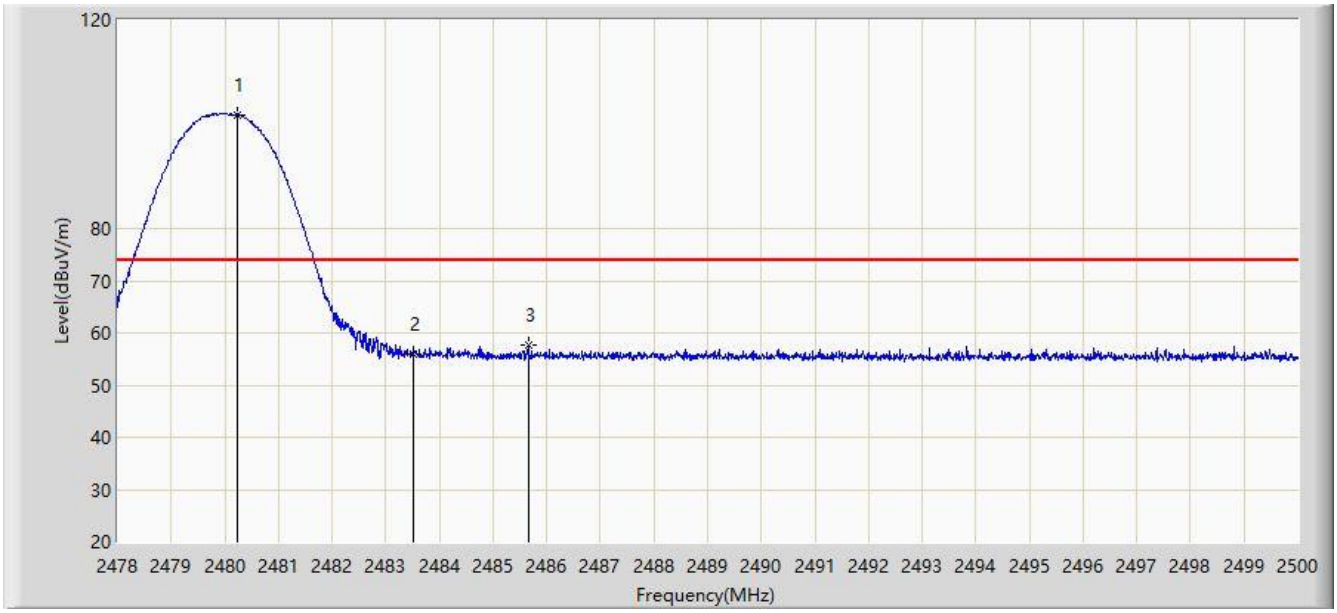



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2480.046 | 102.616 | 72.955 | N/A | N/A | 29.661 | AV |
| 2 | | | 2483.500 | 43.528 | 13.866 | -10.472 | 54.000 | 29.662 | AV |
| 3 | | | 2483.874 | 43.693 | 14.031 | -10.307 | 54.000 | 29.662 | AV |

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

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

| | |
|---|---|
| Site: NS-AC1 | Time: 2021/01/07 - 17:45 |
| Limit: FCC_Part 15_209_RE(3m) | Engineer: Silence Liu |
| Probe: NS-AC1_BBHA9120D_2111 | Polarity: Vertical |
| EUT: Active Speaker | Power: AC 120V/60Hz |
| Test Mode: Transmit by 3DH5 at channel 2480MHz | |

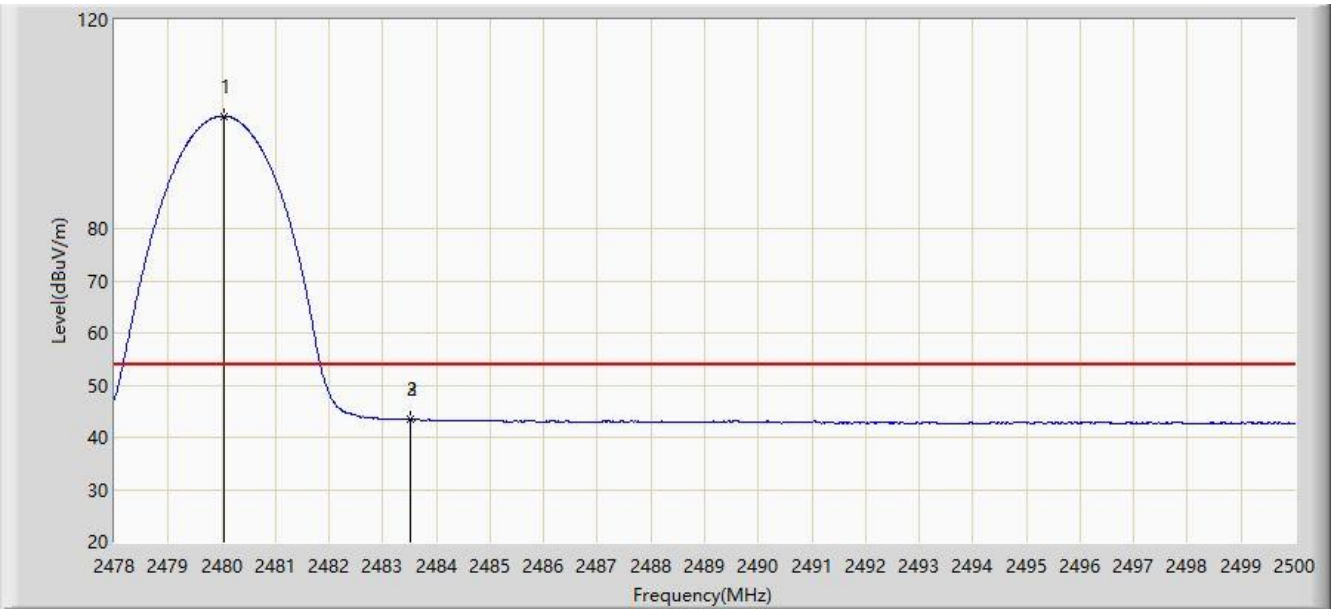



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2480.244 | 101.862 | 72.201 | N/A | N/A | 29.660 | PK |
| 2 | | | 2483.500 | 56.025 | 26.363 | -17.975 | 74.000 | 29.662 | PK |
| 3 | | | 2485.656 | 57.590 | 27.928 | -16.410 | 74.000 | 29.663 | PK |

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

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

| | |
|---|---|
| Site: NS-AC1 | Time: 2021/01/07 - 17:48 |
| Limit: FCC_Part 15_209_RE(3m) | Engineer: Silence Liu |
| Probe: NS-AC1_BBHA9120D_2111 | Polarity: Vertical |
| EUT: Active Speaker | Power: AC 120V/60Hz |
| Test Mode: Transmit by 3DH5 at channel 2480MHz | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2480.046 | 101.541 | 71.880 | N/A | N/A | 29.661 | AV |
| 2 | | | 2483.500 | 43.500 | 13.838 | -10.500 | 54.000 | 29.662 | AV |
| 3 | | | 2483.511 | 43.525 | 13.863 | -10.475 | 54.000 | 29.662 | AV |

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

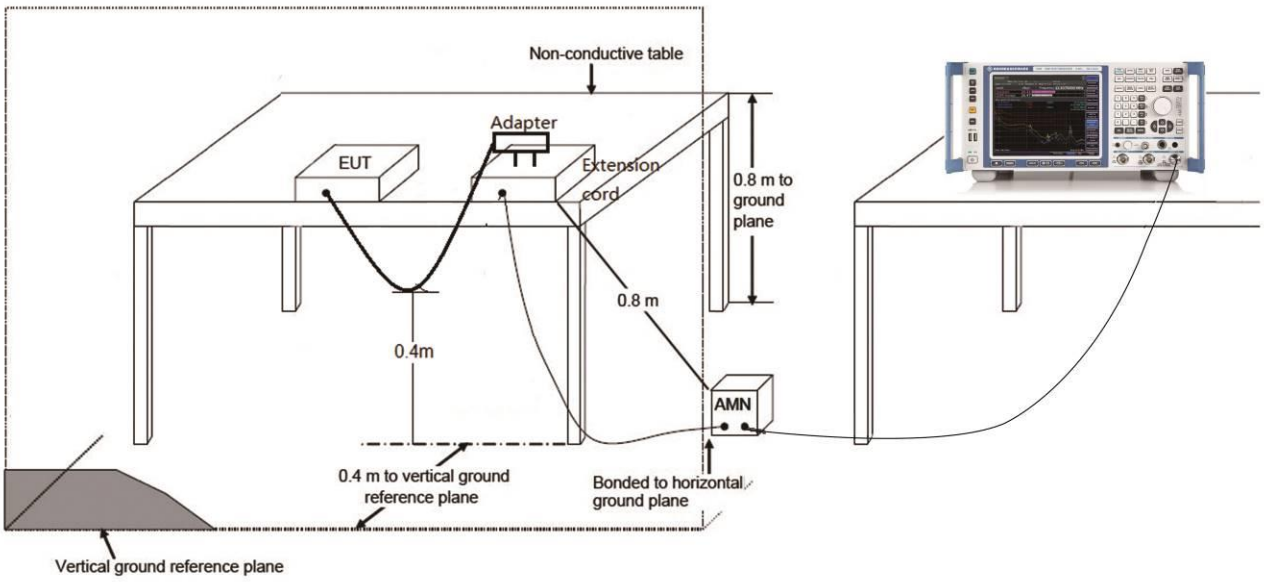
Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m

## 6.11. AC Conducted Emissions Measurement

### 6.11.1.Test Limit

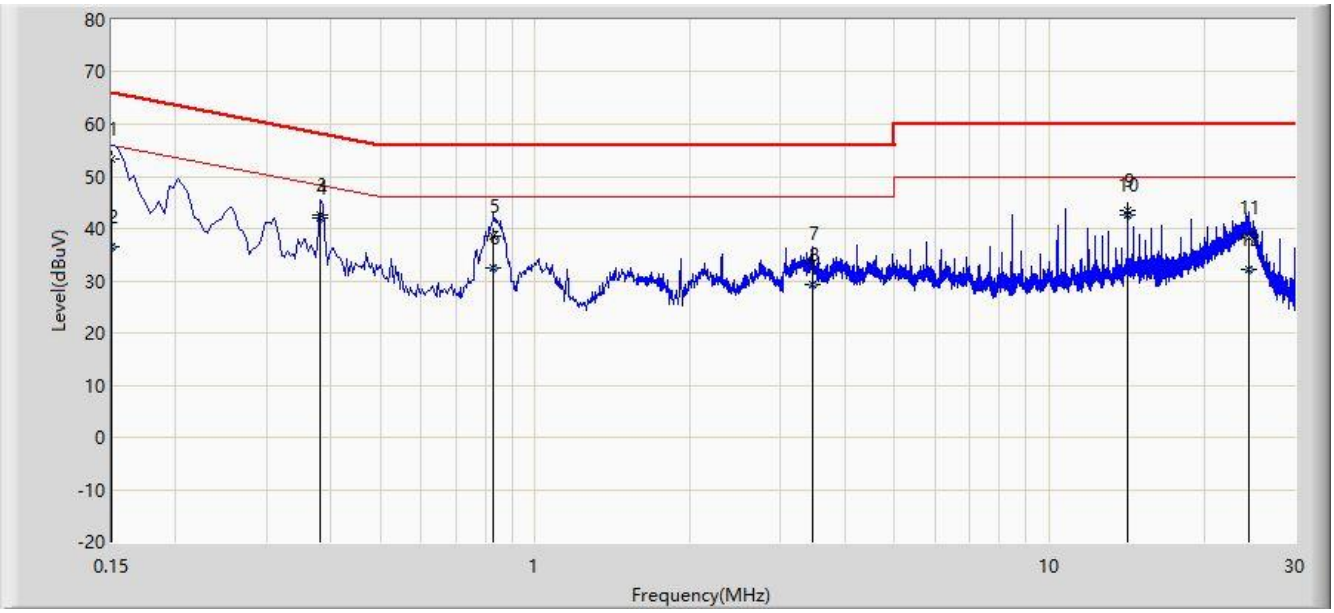
| FCC Part 15 Subpart C Paragraph 15.207 Limits | | |
|---|---|---|
| Frequency (MHz) | QP (dBμV) | Average (dBμV) |
| 0.15 - 0.50 | 66 - 56 | 56 - 46 |
| 0.50 - 5.0 | 56 | 46 |
| 5.0 - 30 | 60 | 50 |
| Note 1: The lower limit shall apply at the transition frequencies.<br>Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz. | | |

### 6.11.2.Test Setup



### 6.11.3.Test Result

| | |
|---|---|
| Site: NS-SR2 | Time: 2021/01/12 - 15:06 |
| Limit: FCC_Part15.207_CE_AC Power | Engineer: Selina Zhang |
| Probe: ENV216_102494_Filter On | Polarity: Line |
| EUT: Active Speaker | Power: AC 120V/60Hz |
| Test Mode: Transmit by 2DH5 at Channel 2441MHz | |

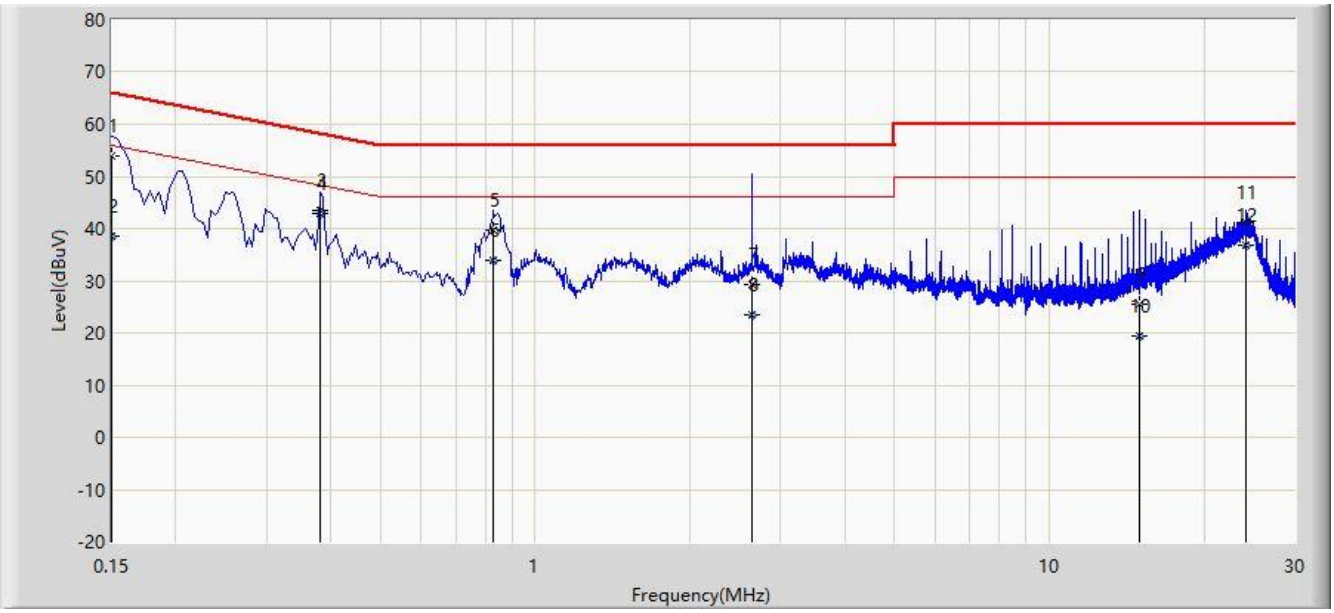



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 0.150 | 53.284 | 42.518 | -12.716 | 66.000 | 10.766 | QP |
| 2 | | | 0.150 | 36.437 | 25.671 | -19.563 | 56.000 | 10.766 | AV |
| 3 | | | 0.382 | 42.727 | 32.799 | -15.509 | 58.236 | 9.928 | QP |
| 4 | | * | 0.382 | 42.172 | 32.244 | -6.064 | 48.236 | 9.928 | AV |
| 5 | | | 0.830 | 38.539 | 28.699 | -17.461 | 56.000 | 9.840 | QP |
| 6 | | | 0.830 | 32.469 | 22.629 | -13.531 | 46.000 | 9.840 | AV |
| 7 | | | 3.458 | 33.395 | 23.698 | -22.605 | 56.000 | 9.697 | QP |
| 8 | | | 3.458 | 29.319 | 19.621 | -16.681 | 46.000 | 9.697 | AV |
| 9 | | | 14.206 | 43.340 | 33.458 | -16.660 | 60.000 | 9.882 | QP |
| 10 | | | 14.206 | 42.560 | 32.678 | -7.440 | 50.000 | 9.882 | AV |
| 11 | | | 24.382 | 38.118 | 28.166 | -21.882 | 60.000 | 9.951 | QP |
| 12 | | | 24.382 | 32.037 | 22.085 | -17.963 | 50.000 | 9.951 | AV |

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

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

| | |
|---|---|
| Site: NS-SR2 | Time: 2021/01/12 - 15:21 |
| Limit: FCC_Part15.207_CE_AC Power | Engineer: Selina Zhang |
| Probe: ENV216_102494_Filter On | Polarity: Neutral |
| EUT: Active Speaker | Power: AC 120V/60Hz |
| Test Mode: Transmit by 2DH5 at Channel 2441MHz | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 0.150 | 53.949 | 43.174 | -12.051 | 66.000 | 10.776 | QP |
| 2 | | | 0.150 | 38.429 | 27.654 | -17.571 | 56.000 | 10.776 | AV |
| 3 | | | 0.382 | 43.559 | 33.630 | -14.677 | 58.236 | 9.928 | QP |
| 4 | | * | 0.382 | 43.008 | 33.080 | -5.228 | 48.236 | 9.928 | AV |
| 5 | | | 0.830 | 39.675 | 29.836 | -16.325 | 56.000 | 9.840 | QP |
| 6 | | | 0.830 | 33.857 | 24.017 | -12.143 | 46.000 | 9.840 | AV |
| 7 | | | 2.642 | 29.148 | 19.461 | -26.852 | 56.000 | 9.687 | QP |
| 8 | | | 2.642 | 23.337 | 13.650 | -22.663 | 46.000 | 9.687 | AV |
| 9 | | | 15.006 | 25.535 | 15.600 | -34.465 | 60.000 | 9.936 | QP |
| 10 | | | 15.006 | 19.551 | 9.616 | -30.449 | 50.000 | 9.936 | AV |
| 11 | | | 24.190 | 41.058 | 31.014 | -18.942 | 60.000 | 10.044 | QP |
| 12 | | | 24.190 | 36.940 | 26.896 | -13.060 | 50.000 | 10.044 | AV |

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

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

# 7. CONCLUSION

The data collected relate only the item(s) tested and show that the device is compliance with Part 15C of the FCC rules.

The End

# Appendix A - Test Setup Photograph

Refer to “2012RSU069-UT” file.

# Appendix B - EUT Photograph

Refer to “2012RSU069-UE” file.