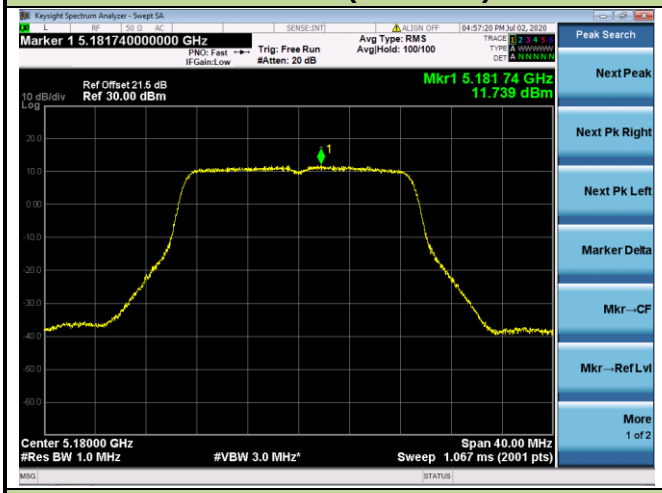
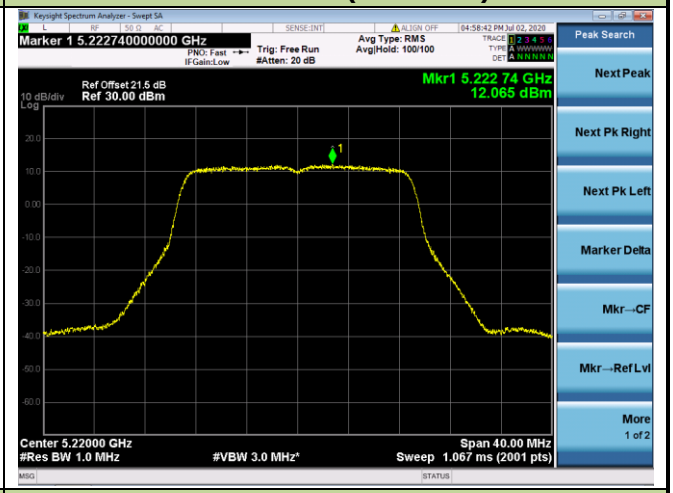
## 802.11n-HT20 Power Spectral Density - Ant 1 / Ant 0 + 1

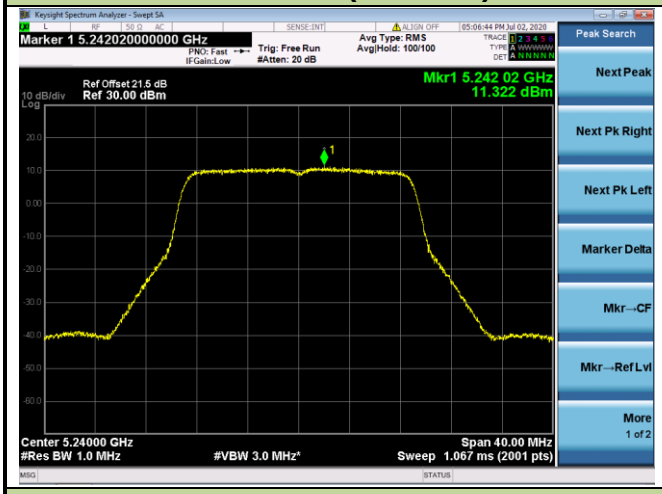
### Channel 36 (5180MHz)



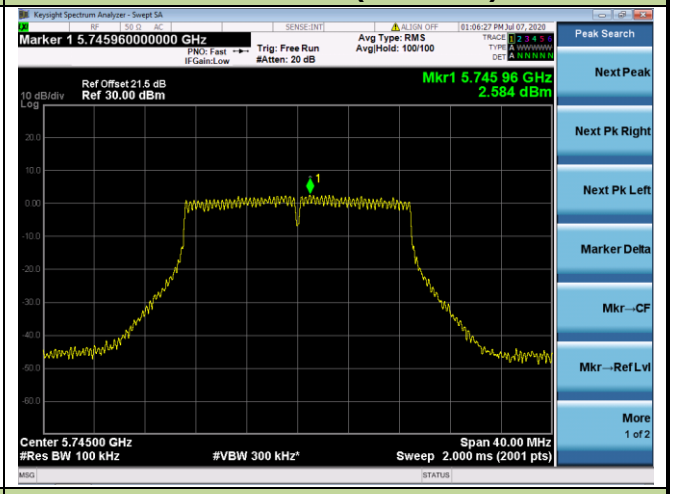

### Channel 44 (5220MHz)



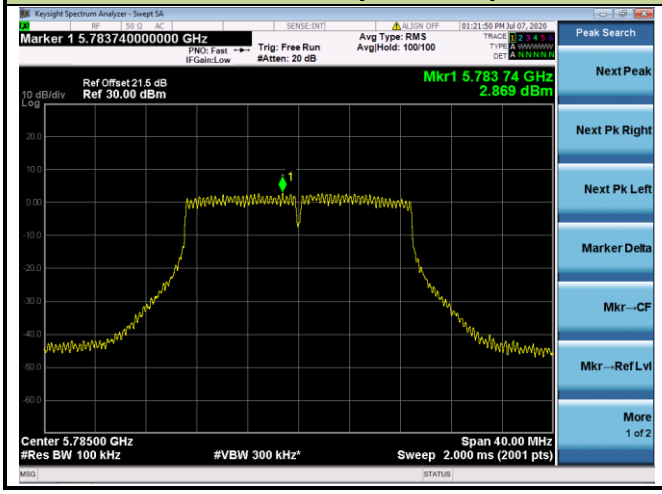

### Channel 48 (5240MHz)



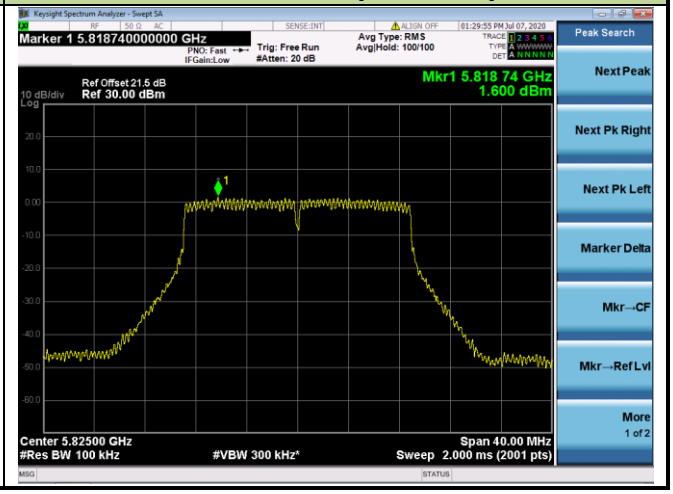

### Channel 149 (5745MHz)




### Channel 157 (5785MHz)

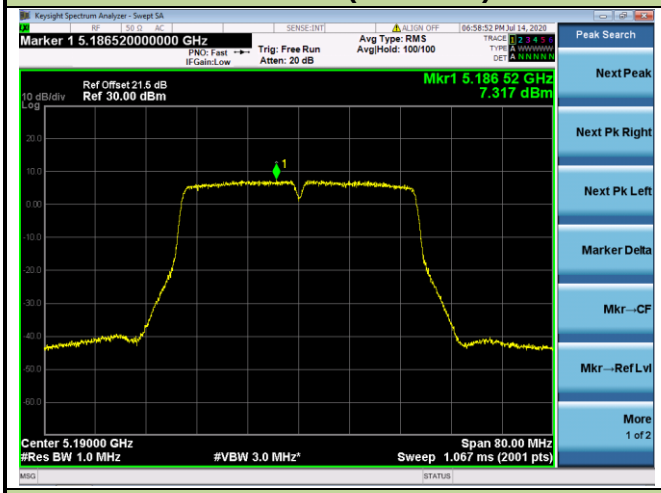



### Channel 165 (5825MHz)

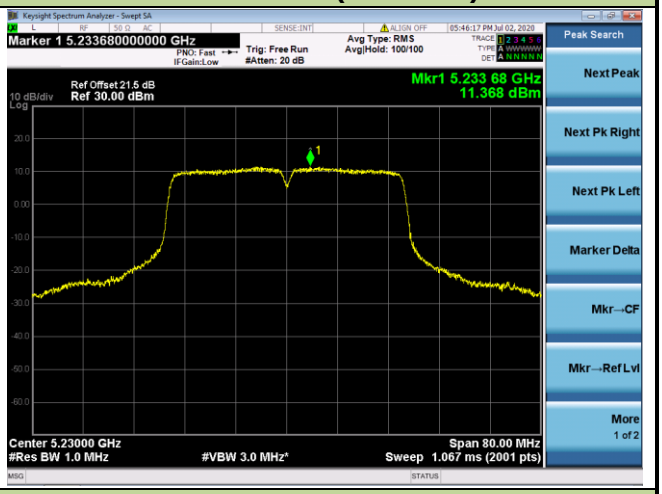


## 802.11n-HT40 Power Spectral Density - Ant 1 / Ant 0 + 1

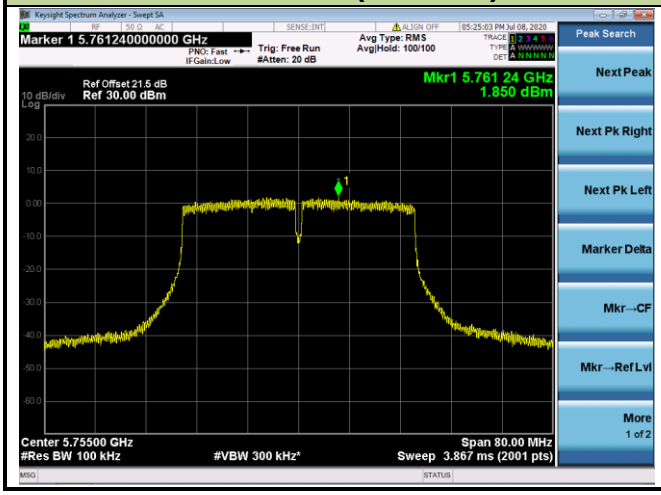
### Channel 38 (5190MHz)



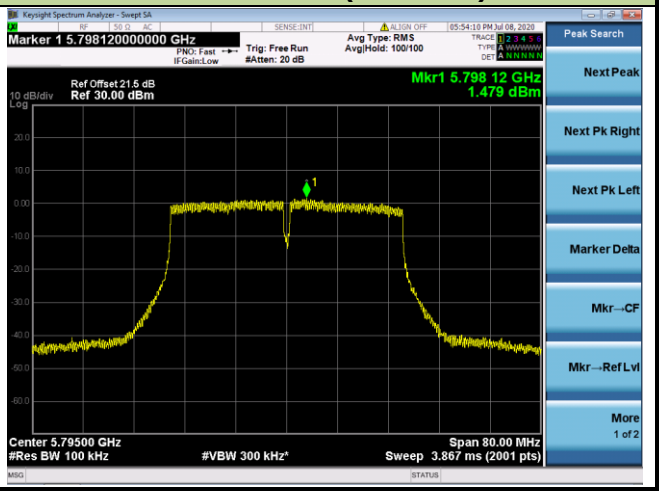

### Channel 46 (5230MHz)




### Channel 151 (5755MHz)

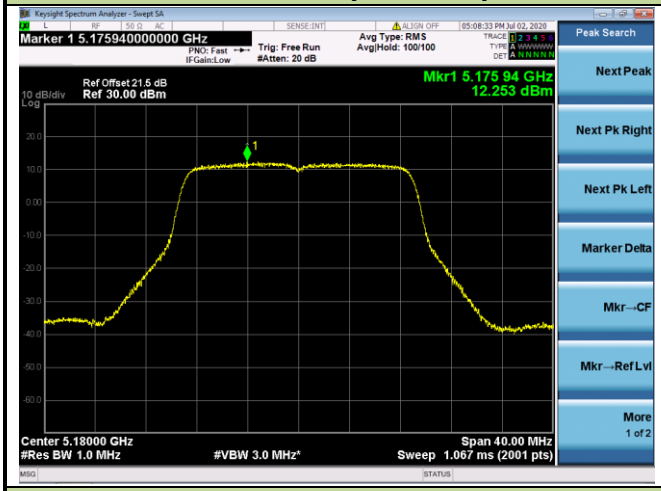



### Channel 159 (5795MHz)

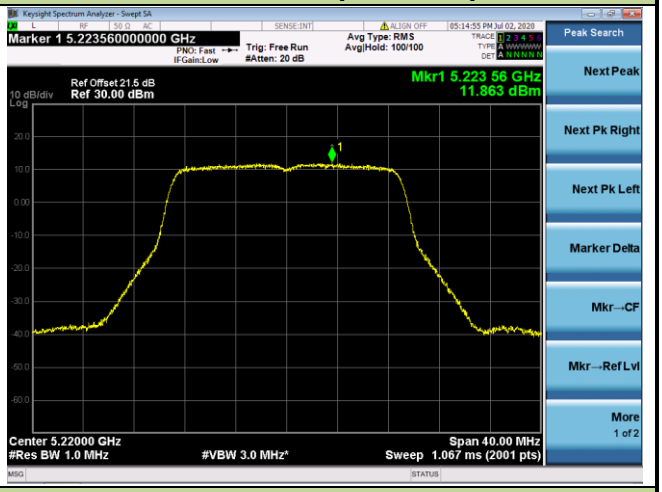


## 802.11ac-VHT20 Power Spectral Density - Ant 1 / Ant 0 + 1

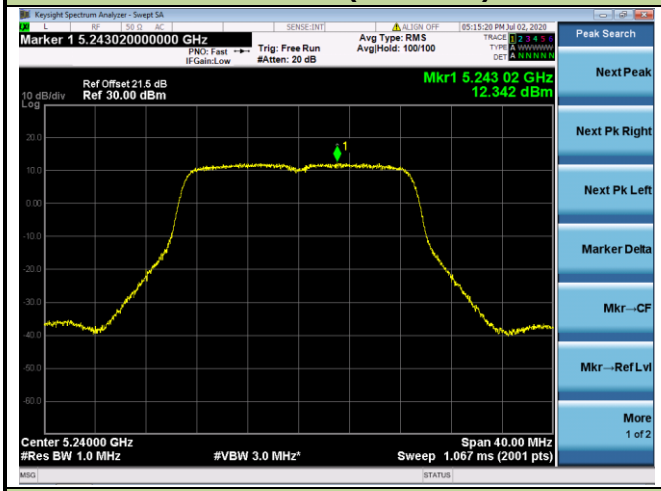
### Channel 36 (5180MHz)



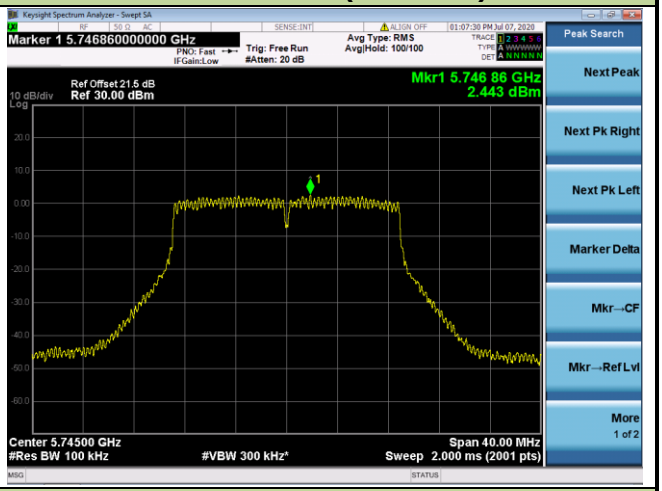

### Channel 44 (5220MHz)



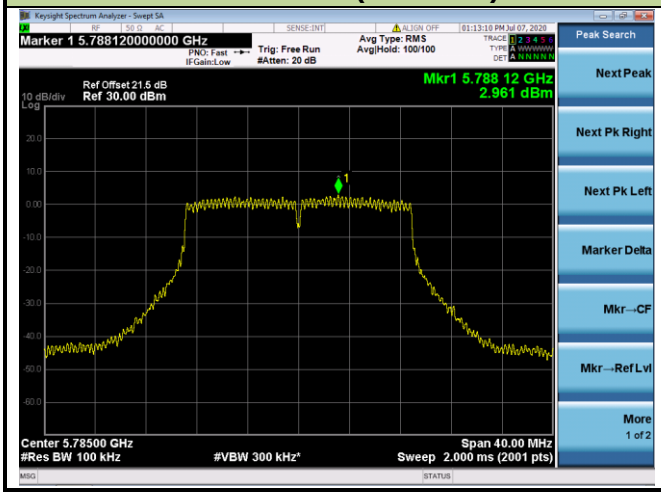

### Channel 48 (5240MHz)



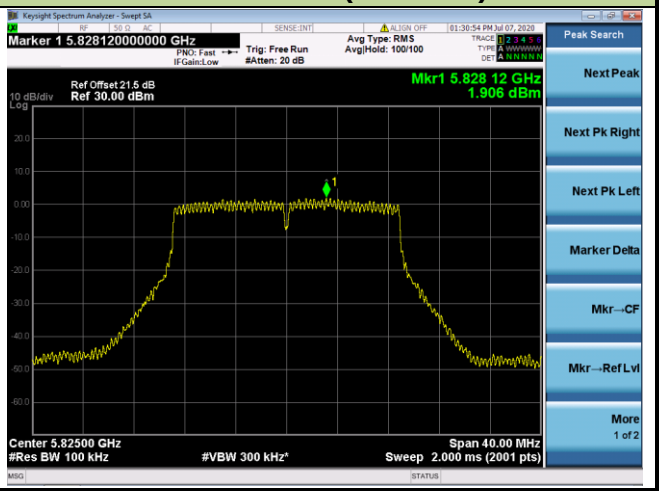

### Channel 149 (5745MHz)




### Channel 157 (5785MHz)

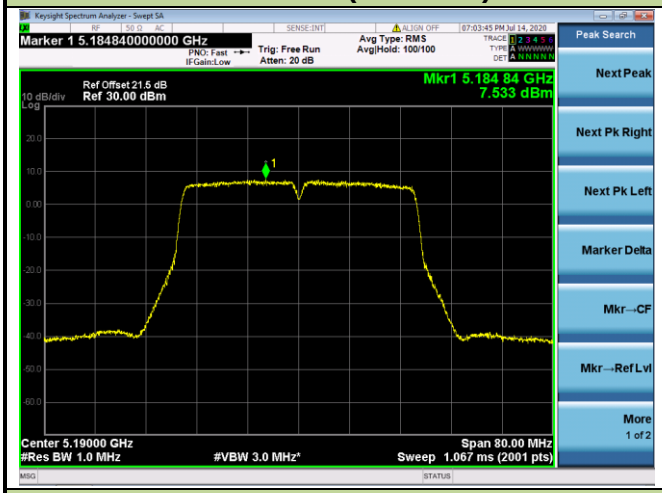



### Channel 165 (5825MHz)



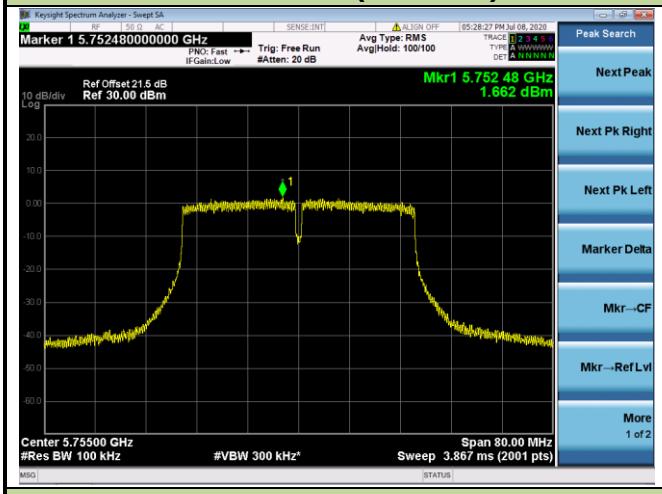
## 802.11ac-VHT40 Power Spectral Density - Ant 1 / Ant 0 + 1

### Channel 38 (5190MHz)

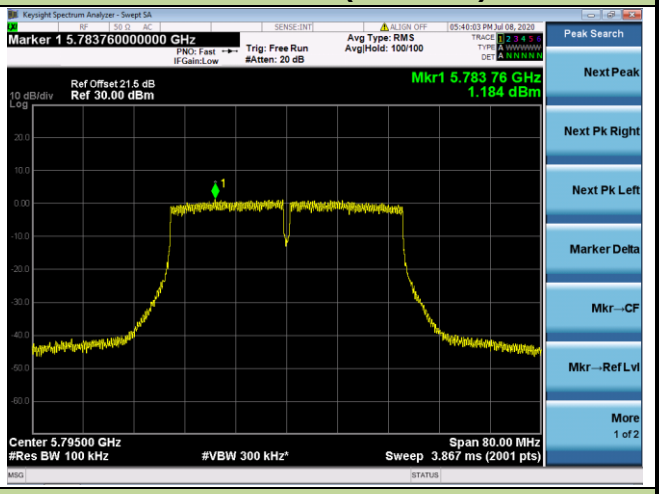



### Channel 46 (5230MHz)


### Channel 151 (5755MHz)

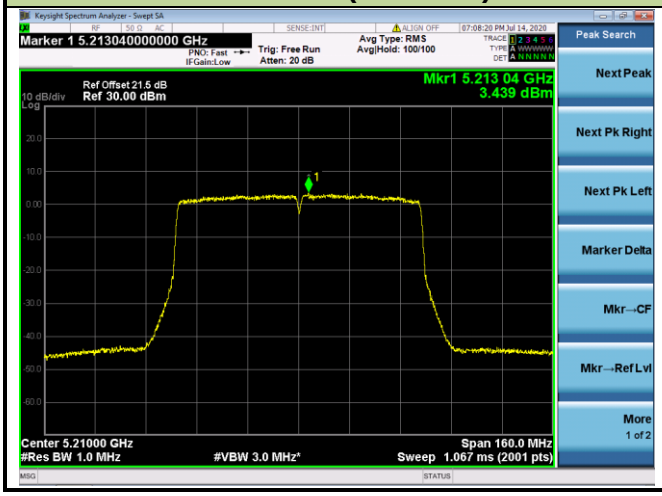



### Channel 159 (5795MHz)

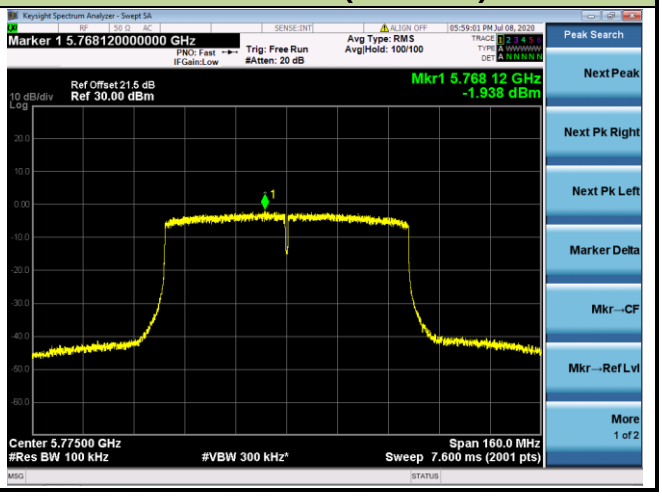



## 802.11ac-VHT80 Power Spectral Density - Ant 1 / Ant 0 + 1

### Channel 42 (5210MHz)

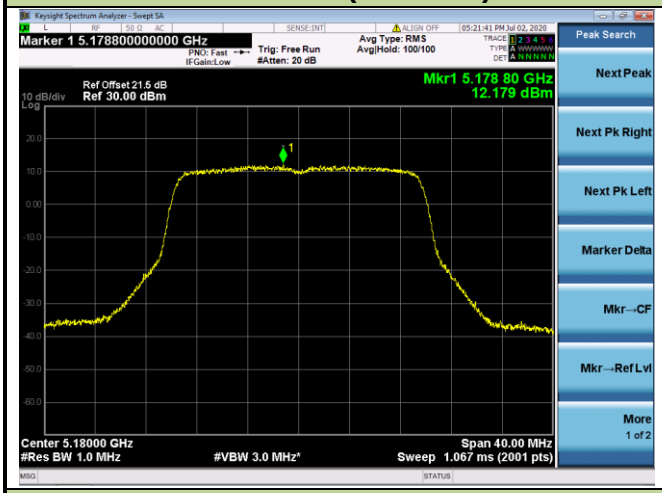



### Channel 155 (5775MHz)

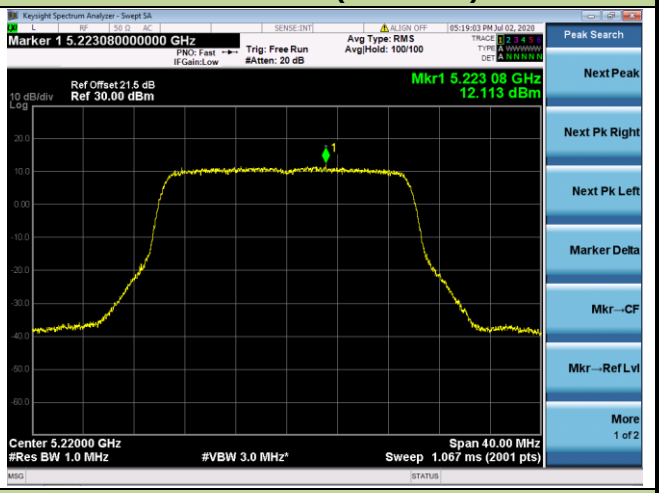


## 802.11ax-HE20 Power Spectral Density - Ant 1 / Ant 0 + 1

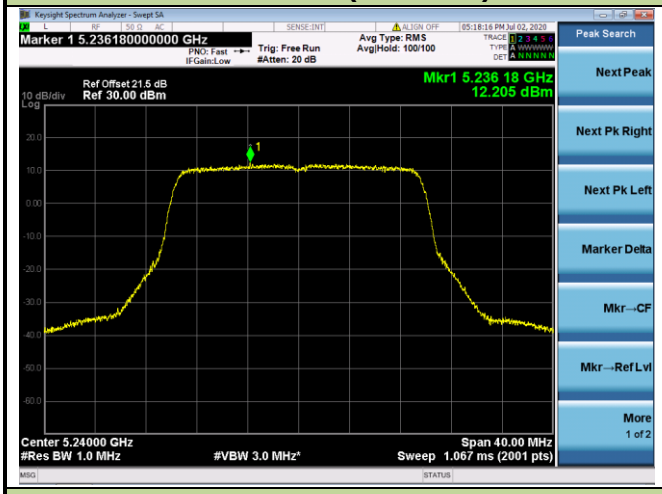
### Channel 36 (5180MHz)



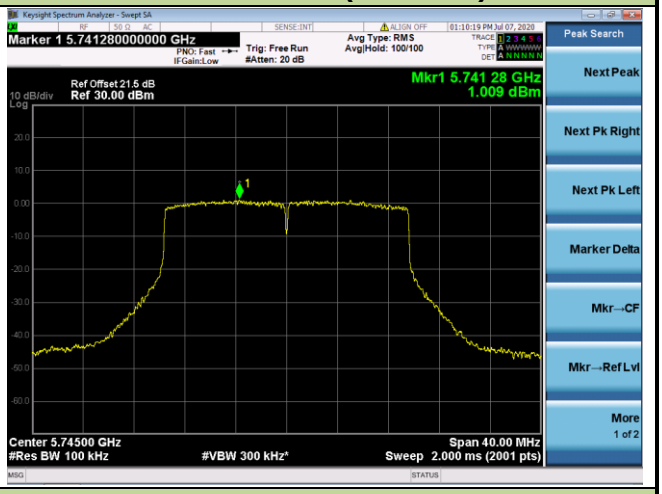

### Channel 44 (5220MHz)



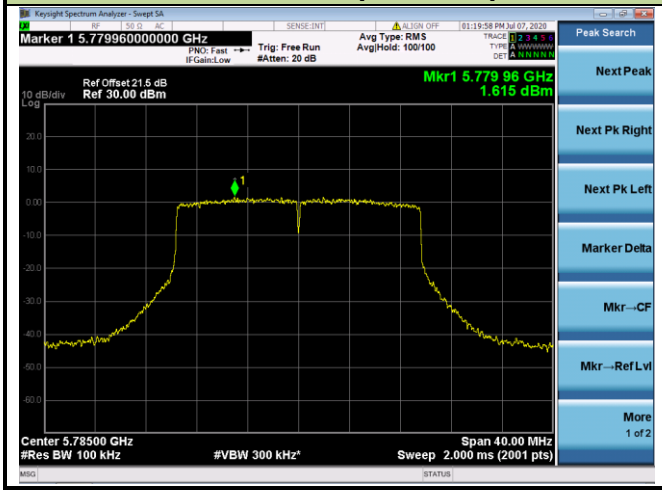

### Channel 48 (5240MHz)



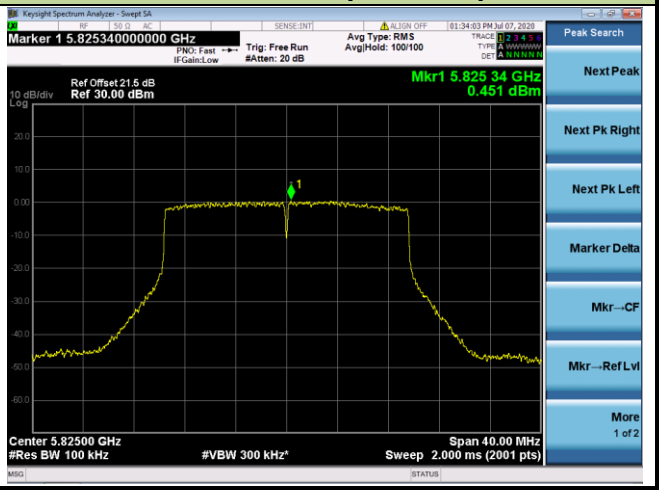

### Channel 149 (5745MHz)

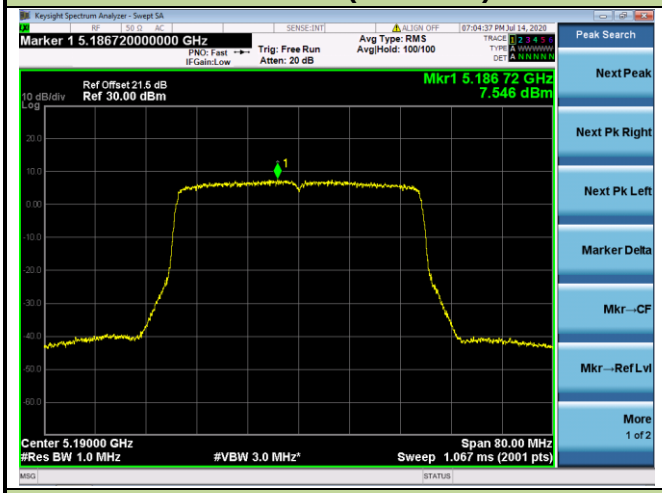
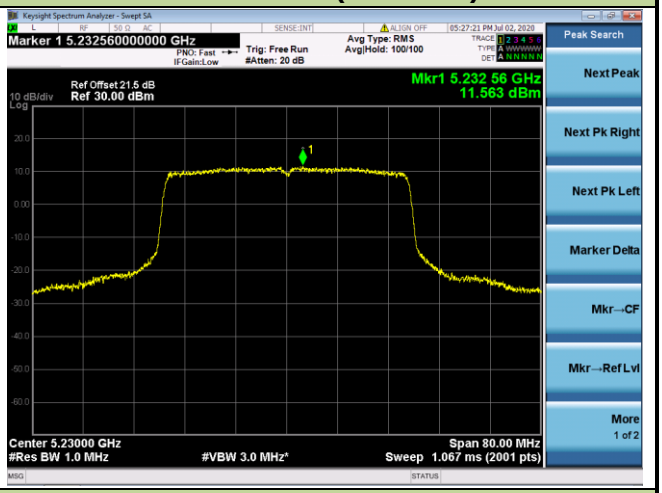
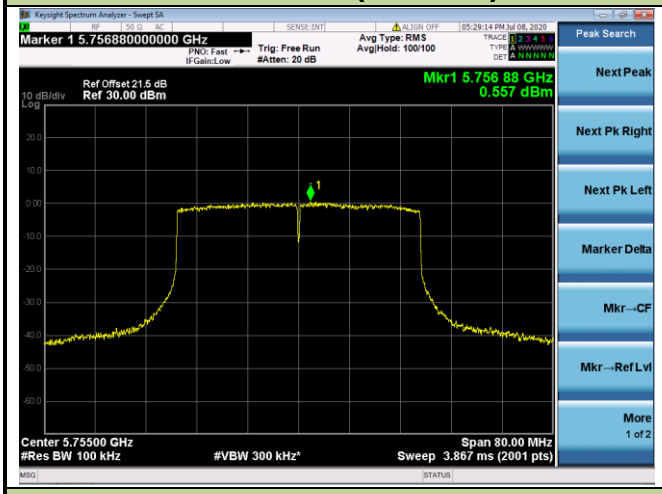
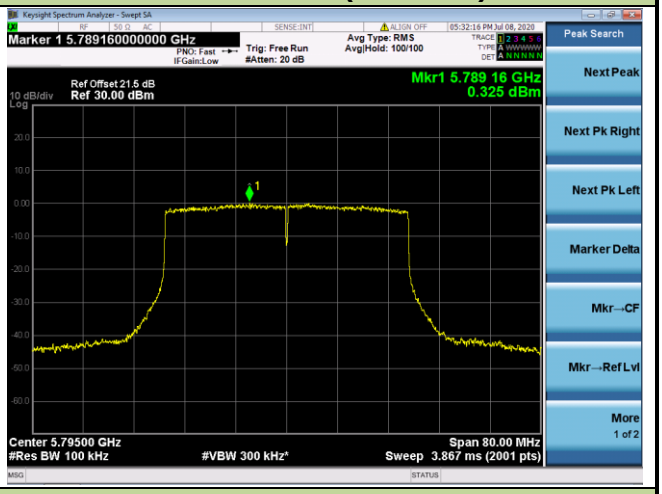
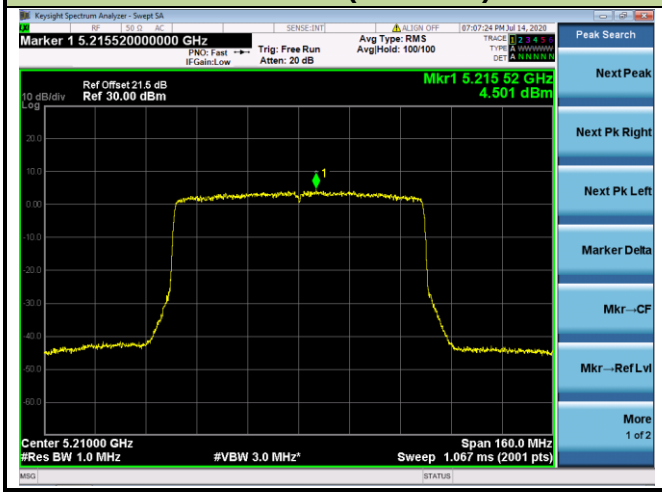
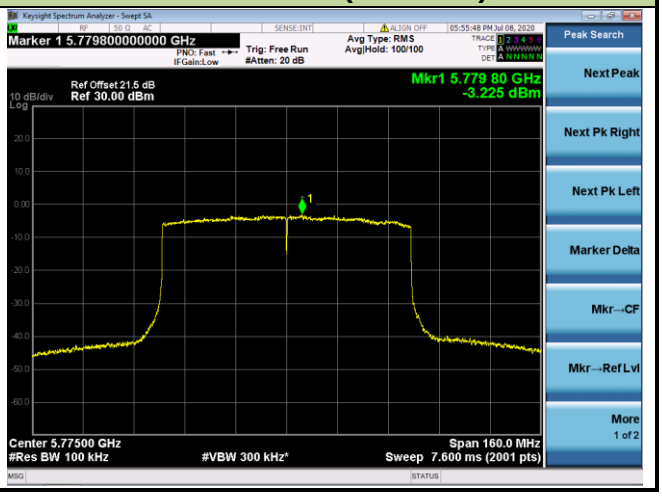



### Channel 157 (5785MHz)




### Channel 165 (5825MHz)



| 802.11ax-HE40 Power Spectral Density - Ant 1 / Ant 0 + 1 | |
|---|---|
| Channel 38 (5190MHz) | Channel 46 (5230MHz) |
|  |  |
| Channel 151 (5755MHz) | Channel 159 (5795MHz) |
|  |  |
| 802.11ax-HE80 Power Spectral Density - Ant 1 / Ant 0 + 1 | |
| Channel 42 (5210MHz) | Channel 155 (5775MHz) |
|  |  |

## 6.6. Frequency Stability Measurement

### 6.6.1.Test Limit

Fundamental emissions must be contained within the frequency bands specified in this section during all conditions of operation.

The transmitter center frequency tolerance shall be ±20 ppm maximum for the 5GHz band (IEEE 802.11 specification).

### 6.6.2.Test Procedure Used

**Frequency Stability Under Temperature Variations:**

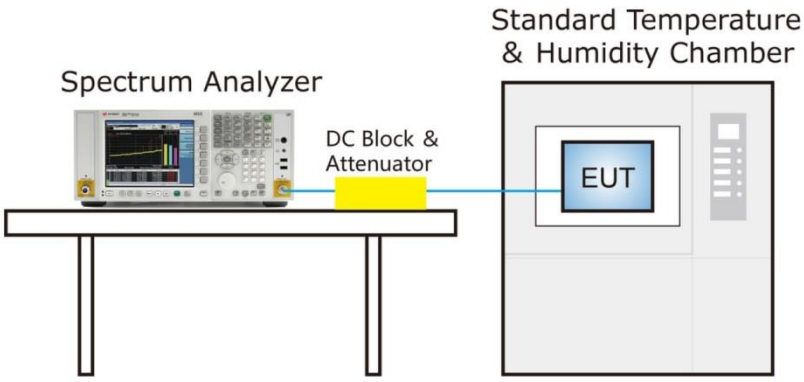
The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to highest. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C decreased per stage until the lowest temperature reached.

**Frequency Stability Under Voltage Variations:**

Set chamber temperature to 20°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation (±15%) and endpoint, recordthe maximum frequency change.

### 6.6.3.Test Setup



### 6.6.4.Test Result

| Product | GigaSpire BLAST u4 | Test Engineer | Yuri Li |
|---|---|---|---|
| Test Date | 2020/07/16 | Test Site | TR3 |
| Test Mode | 5180MHz (Carrier frequency) | | |

| Voltage (%) | Power (VAC) | Temp (°C) | Frequency Tolerance (ppm) |
|---|---|---|---|
| 100% | 120 | - 30 | -5.455 |
| | | - 20 | -3.636 |
| | | - 10 | 0.000 |
| | | 0 | -3.636 |
| | | + 10 | -7.273 |
| | | + 20 (Ref) | -3.636 |
| | | + 30 | -1.818 |
| | | + 40 | -1.818 |
| | | + 50 | -3.636 |
| 115% | 138 | + 20 | -3.636 |
| 85% | 102 | + 20 | -5.455 |

Note: Frequency Tolerance (ppm) = {[Measured Frequency (Hz) - Declared Frequency (Hz)] / Declared Frequency (Hz)} *$10^6$.

## 6.7. Radiated Spurious Emission Measurement

### 6.7.1.Test Limit

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

| FCC Part 15 Subpart C Paragraph 15.209 | | |
|---|---|---|
| Frequency [MHz] | Field Strength [uV/m] | Measured Distance [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 |

### 6.7.2.Test Procedure Used

KDB 789033 D02v02r01 – Section G

### 6.7.3.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 |
| > 1000MHz | 1MHz |

**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 = 10 Hz.

If the EUT duty cycle is < 98%, set VBW ≥ 1/T. T is the minimum transmission duration.

4. Detector = Peak

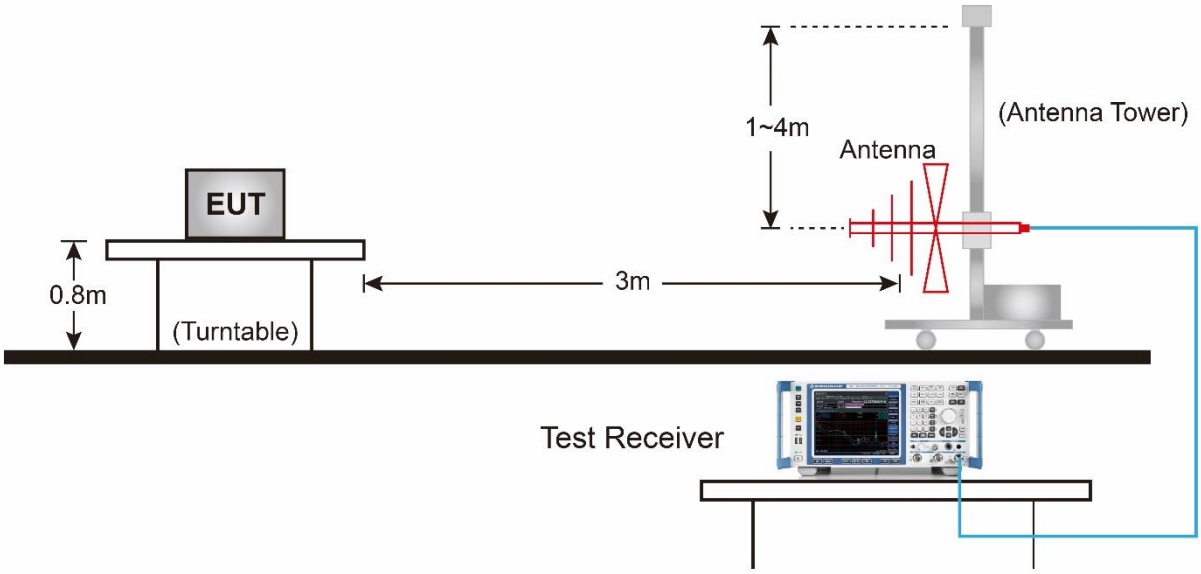
5. Sweep time = auto

6. Trace mode = max hold

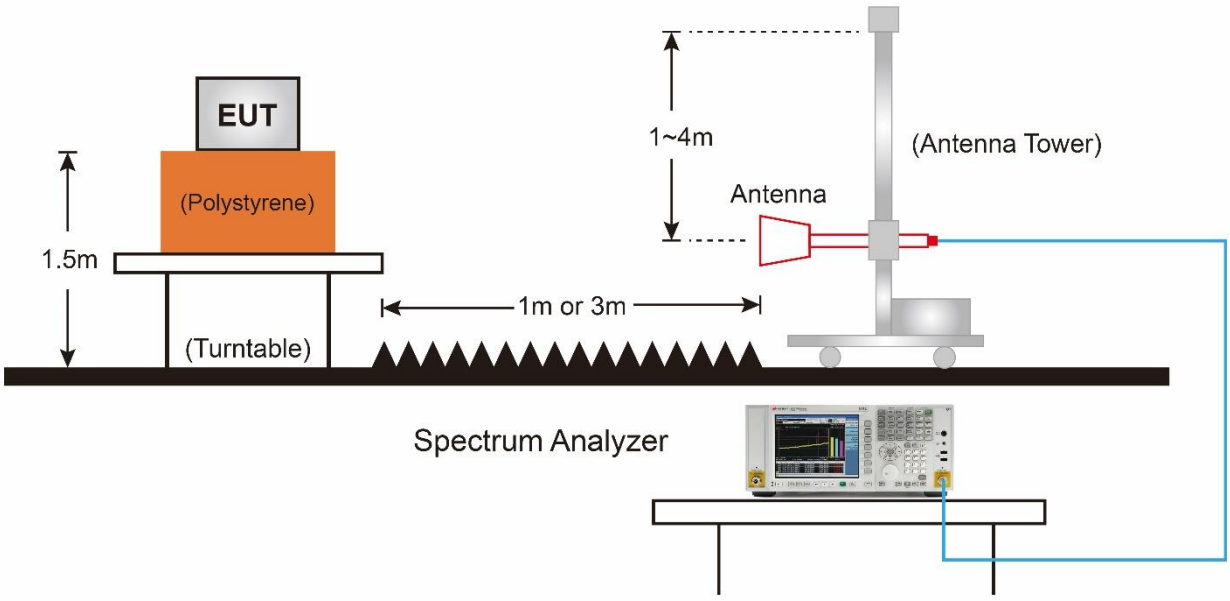
7. Trace was allowed to stabilize

### 6.7.4.Test Setup

Below 1GHz Test Setup:




Above 1GHz Test Setup:



### 6.7.5.Test Result

| Product | GigaSpire BLAST u4 | Test Engineer | Buter Shi |
|---|---|---|---|
| Test Date | 2020/07/08 ~ 2020/07/14 | Test Site | AC1 & AC2 |
| Test Mode: | 802.11a - Ant 0 + 1 (CDD Mode) | Test Channel: | 36 |
| 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 |
|---|---|---|---|---|---|---|---|---|
| | 7434.5 | 32.8 | 8.2 | 41.0 | 74.0 | -33.0 | Peak | Horizontal |
| | 8208.0 | 33.9 | 8.3 | 42.2 | 74.0 | -31.8 | Peak | Horizontal |
| * | 8718.0 | 32.0 | 9.4 | 41.4 | 68.2 | -26.8 | Peak | Horizontal |
| * | 9789.0 | 32.5 | 10.7 | 43.2 | 68.2 | -25.0 | Peak | Horizontal |
| | 7502.5 | 32.2 | 8.0 | 40.2 | 74.0 | -33.8 | Peak | Vertical |
| | 8106.0 | 34.9 | 9.1 | 44.0 | 74.0 | -30.0 | Peak | Vertical |
| * | 8684.0 | 33.0 | 9.6 | 42.6 | 68.2 | -25.6 | Peak | Vertical |
| * | 9636.0 | 34.4 | 10.5 | 44.9 | 68.2 | -23.3 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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 | GigaSpire BLAST u4 | Test Engineer | Buter Shi |
|---|---|---|---|
| Test Date | 2020/07/08 ~ 2020/07/14 | Test Site | AC1 & AC2 |
| Test Mode: | 802.11a - Ant 0 + 1 (CDD Mode) | Test Channel: | 44 |
| 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 |
|---|---|---|---|---|---|---|---|---|
| | 7434.5 | 33.2 | 8.2 | 41.4 | 74.0 | -32.6 | Peak | Horizontal |
| | 8301.5 | 33.0 | 8.4 | 41.4 | 74.0 | -32.6 | Peak | Horizontal |
| * | 8692.5 | 32.5 | 9.6 | 42.1 | 68.2 | -26.1 | Peak | Horizontal |
| * | 9704.0 | 33.5 | 10.8 | 44.3 | 68.2 | -23.9 | Peak | Horizontal |
| | 7485.5 | 33.2 | 8.3 | 41.5 | 74.0 | -32.5 | Peak | Vertical |
| | 8165.5 | 33.6 | 8.5 | 42.1 | 74.0 | -31.9 | Peak | Vertical |
| * | 8692.5 | 32.6 | 9.6 | 42.2 | 68.2 | -26.0 | Peak | Vertical |
| * | 9763.5 | 35.3 | 10.7 | 46.0 | 68.2 | -22.2 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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 | GigaSpire BLAST u4 | Test Engineer | Buter Shi |
|---|---|---|---|
| Test Date | 2020/07/08 ~ 2020/07/14 | Test Site | AC1 & AC2 |
| Test Mode: | 802.11a - Ant 0 + 1 (CDD Mode) | Test Channel: | 48 |
| 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 |
|---|---|---|---|---|---|---|---|---|
| | 7681.0 | 33.2 | 8.5 | 41.7 | 74.0 | -32.3 | Peak | Horizontal |
| | 8089.0 | 34.7 | 9.0 | 43.7 | 74.0 | -30.3 | Peak | Horizontal |
| * | 8667.0 | 32.6 | 9.6 | 42.2 | 68.2 | -26.0 | Peak | Horizontal |
| * | 10001.5 | 34.0 | 11.2 | 45.2 | 68.2 | -23.0 | Peak | Horizontal |
| | 7468.5 | 32.4 | 8.2 | 40.6 | 74.0 | -33.4 | Peak | Vertical |
| | 8199.5 | 33.7 | 8.4 | 42.1 | 74.0 | -31.9 | Peak | Vertical |
| * | 8743.5 | 33.3 | 9.9 | 43.2 | 68.2 | -25.0 | Peak | Vertical |
| * | 10137.5 | 35.3 | 11.1 | 46.4 | 68.2 | -21.8 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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 | GigaSpire BLAST u4 | Test Engineer | Buter Shi |
|---|---|---|---|
| Test Date | 2020/07/08 ~ 2020/07/14 | Test Site | AC1 & AC2 |
| Test Mode: | 802.11a - Ant 0 + 1 (CDD Mode) | Test Channel: | 149 |
| 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 |
|---|---|---|---|---|---|---|---|---|
| | 7545.0 | 34.5 | 8.2 | 42.7 | 74.0 | -31.3 | Peak | Horizontal |
| | 8174.0 | 34.4 | 8.6 | 43.0 | 74.0 | -31.0 | Peak | Horizontal |
| * | 8760.5 | 33.5 | 10.1 | 43.6 | 68.2 | -24.6 | Peak | Horizontal |
| * | 10137.5 | 34.1 | 11.1 | 45.2 | 68.2 | -23.0 | Peak | Horizontal |
| | 7443.0 | 33.7 | 8.3 | 42.0 | 74.0 | -32.0 | Peak | Vertical |
| | 8327.0 | 33.5 | 8.5 | 42.0 | 74.0 | -32.0 | Peak | Vertical |
| * | 8837.0 | 31.5 | 9.8 | 41.3 | 68.2 | -26.9 | Peak | Vertical |
| * | 9721.0 | 34.1 | 10.8 | 44.9 | 68.2 | -23.3 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz or -17dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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 | GigaSpire BLAST u4 | Test Engineer | Buter Shi |
|---|---|---|---|
| Test Date | 2020/07/08 ~ 2020/07/14 | Test Site | AC1 & AC2 |
| Test Mode: | 802.11a - Ant 0 + 1<br>(CDD Mode) | Test Channel: | 157 |
| 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 |
|---|---|---|---|---|---|---|---|---|
| | 7536.5 | 34.3 | 8.1 | 42.4 | 74.0 | -31.6 | Peak | Horizontal |
| | 8191.0 | 34.3 | 8.5 | 42.8 | 74.0 | -31.2 | Peak | Horizontal |
| * | 8692.5 | 32.4 | 9.6 | 42.0 | 68.2 | -26.2 | Peak | Horizontal |
| * | 10154.5 | 34.3 | 11.4 | 45.7 | 68.2 | -22.5 | Peak | Horizontal |
| | 7477.0 | 34.1 | 8.2 | 42.3 | 74.0 | -31.7 | Peak | Vertical |
| | 8250.5 | 33.2 | 8.4 | 41.6 | 74.0 | -32.4 | Peak | Vertical |
| * | 8820.0 | 31.6 | 9.8 | 41.4 | 68.2 | -26.8 | Peak | Vertical |
| * | 9746.5 | 34.4 | 10.8 | 45.2 | 68.2 | -23.0 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz or -17dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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 | GigaSpire BLAST u4 | Test Engineer | Buter Shi |
|---|---|---|---|
| Test Date | 2020/07/08 ~ 2020/07/14 | Test Site | AC1 & AC2 |
| Test Mode: | 802.11a - Ant 0 + 1 (CDD Mode) | Test Channel: | 165 |
| 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 |
|---|---|---|---|---|---|---|---|---|
| | 7596.0 | 33.9 | 8.2 | 42.1 | 74.0 | -31.9 | Peak | Horizontal |
| | 8293.0 | 33.4 | 8.4 | 41.8 | 74.0 | -32.2 | Peak | Horizontal |
| * | 8803.0 | 32.4 | 10.0 | 42.4 | 68.2 | -25.8 | Peak | Horizontal |
| * | 10324.5 | 32.9 | 12.7 | 45.6 | 68.2 | -22.6 | Peak | Horizontal |
| | 7553.5 | 34.3 | 8.2 | 42.5 | 74.0 | -31.5 | Peak | Vertical |
| | 8199.5 | 32.9 | 8.4 | 41.3 | 74.0 | -32.7 | Peak | Vertical |
| * | 8752.0 | 33.1 | 10.1 | 43.2 | 68.2 | -25.0 | Peak | Vertical |
| * | 9780.5 | 34.4 | 10.6 | 45.0 | 68.2 | -23.2 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz or -17dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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 | GigaSpire BLAST u4 | Test Engineer | Buter Shi |
|---|---|---|---|
| Test Date | 2020/07/08 ~ 2020/07/14 | Test Site | AC1 & AC2 |
| Test Mode: | 802.11n-HT20 - Ant 0 + 1 (CDD Mode) | Test Channel: | 36 |
| 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 |
|---|---|---|---|---|---|---|---|---|
| | 7655.5 | 38.8 | 10.1 | 48.9 | 74.0 | -25.1 | Peak | Horizontal |
| | 8352.5 | 37.4 | 10.6 | 48.0 | 74.0 | -26.0 | Peak | Horizontal |
| * | 8658.5 | 36.5 | 12.1 | 48.6 | 68.2 | -19.6 | Peak | Horizontal |
| * | 9950.5 | 35.7 | 13.1 | 48.8 | 68.2 | -19.4 | Peak | Horizontal |
| | 7468.5 | 38.0 | 10.7 | 48.7 | 74.0 | -25.3 | Peak | Vertical |
| | 8242.0 | 36.8 | 10.7 | 47.5 | 74.0 | -26.5 | Peak | Vertical |
| * | 8616.0 | 37.2 | 11.8 | 49.0 | 68.2 | -19.2 | Peak | Vertical |
| * | 9993.0 | 35.9 | 13.5 | 49.4 | 68.2 | -18.8 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBµV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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 | GigaSpire BLAST u4 | Test Engineer | Buter Shi |
|---|---|---|---|
| Test Date | 2020/07/08 ~ 2020/07/14 | Test Site | AC1 & AC2 |
| Test Mode: | 802.11n-HT20 - Ant 0 + 1<br>(CDD Mode) | Test Channel: | 44 |
| 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 |
|---|---|---|---|---|---|---|---|---|
| | 7689.5 | 38.3 | 10.5 | 48.8 | 74.0 | -25.2 | Peak | Horizontal |
| | 8386.5 | 36.5 | 10.6 | 47.1 | 74.0 | -26.9 | Peak | Horizontal |
| * | 8735.0 | 36.4 | 12.4 | 48.8 | 68.2 | -19.4 | Peak | Horizontal |
| * | 9721.0 | 35.3 | 13.2 | 48.5 | 68.2 | -19.7 | Peak | Horizontal |
| | 7375.0 | 37.8 | 10.1 | 47.9 | 74.0 | -26.1 | Peak | Vertical |
| | 8097.5 | 37.7 | 11.5 | 49.2 | 74.0 | -24.8 | Peak | Vertical |
| * | 8811.5 | 36.4 | 12.6 | 49.0 | 68.2 | -19.2 | Peak | Vertical |
| * | 9721.0 | 35.6 | 13.2 | 48.8 | 68.2 | -19.4 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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 | GigaSpire BLAST u4 | Test Engineer | Buter Shi |
|---|---|---|---|
| Test Date | 2020/07/08 ~ 2020/07/14 | Test Site | AC1 & AC2 |
| Test Mode: | 802.11n-HT20 - Ant 0 + 1<br>(CDD Mode) | Test Channel: | 48 |
| 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 |
|---|---|---|---|---|---|---|---|---|
| | 7443.0 | 37.6 | 10.7 | 48.3 | 74.0 | -25.7 | Peak | Horizontal |
| | 8242.0 | 37.1 | 10.7 | 47.8 | 74.0 | -26.2 | Peak | Horizontal |
| * | 8777.5 | 36.7 | 12.4 | 49.1 | 68.2 | -19.1 | Peak | Horizontal |
| * | 9899.5 | 36.1 | 13.3 | 49.4 | 68.2 | -18.8 | Peak | Horizontal |
| | 7451.5 | 37.8 | 10.7 | 48.5 | 74.0 | -25.5 | Peak | Vertical |
| | 8199.5 | 37.4 | 10.6 | 48.0 | 74.0 | -26.0 | Peak | Vertical |
| * | 8845.5 | 36.1 | 12.0 | 48.1 | 68.2 | -20.1 | Peak | Vertical |
| * | 9814.5 | 35.6 | 13.2 | 48.8 | 68.2 | -19.4 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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 | GigaSpire BLAST u4 | Test Engineer | Buter Shi |
|---|---|---|---|
| Test Date | 2020/07/08 ~ 2020/07/14 | Test Site | AC1 & AC2 |
| Test Mode: | 802.11n-HT20 - Ant 0 + 1<br>(CDD Mode) | Test Channel: | 149 |
| 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 |
|---|---|---|---|---|---|---|---|---|
| | 7681.0 | 37.2 | 10.7 | 47.9 | 74.0 | -26.1 | Peak | Horizontal |
| | 8242.0 | 38.9 | 10.7 | 49.6 | 74.0 | -24.4 | Peak | Horizontal |
| * | 8692.5 | 36.6 | 12.3 | 48.9 | 68.2 | -19.3 | Peak | Horizontal |
| * | 9644.5 | 35.4 | 12.7 | 48.1 | 68.2 | -20.1 | Peak | Horizontal |
| | 7681.0 | 37.0 | 10.7 | 47.7 | 74.0 | -26.3 | Peak | Vertical |
| | 8242.0 | 37.2 | 10.7 | 47.9 | 74.0 | -26.1 | Peak | Vertical |
| * | 8820.0 | 35.5 | 12.4 | 47.9 | 68.2 | -20.3 | Peak | Vertical |
| * | 9712.5 | 35.1 | 13.2 | 48.3 | 68.2 | -19.9 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz or -17dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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 | GigaSpire BLAST u4 | Test Engineer | Buter Shi |
|---|---|---|---|
| Test Date | 2020/07/08 ~ 2020/07/14 | Test Site | AC1 & AC2 |
| Test Mode: | 802.11n-HT20 - Ant 0 + 1<br>(CDD Mode) | Test Channel: | 157 |
| 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 |
|---|---|---|---|---|---|---|---|---|
| | 7681.0 | 37.0 | 10.7 | 47.7 | 74.0 | -26.3 | Peak | Horizontal |
| | 8242.0 | 37.2 | 10.7 | 47.9 | 74.0 | -26.1 | Peak | Horizontal |
| * | 8820.0 | 35.5 | 12.4 | 47.9 | 68.2 | -20.3 | Peak | Horizontal |
| * | 9712.5 | 35.1 | 13.2 | 48.3 | 68.2 | -19.9 | Peak | Horizontal |
| | 7630.0 | 38.0 | 10.1 | 48.1 | 74.0 | -25.9 | Peak | Vertical |
| | 8242.0 | 36.8 | 10.7 | 47.5 | 74.0 | -26.5 | Peak | Vertical |
| * | 8658.5 | 35.9 | 12.1 | 48.0 | 68.2 | -20.2 | Peak | Vertical |
| * | 9993.0 | 34.4 | 13.5 | 47.9 | 68.2 | -20.3 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz or -17dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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 | GigaSpire BLAST u4 | Test Engineer | Buter Shi |
|---|---|---|---|
| Test Date | 2020/07/08 ~ 2020/07/14 | Test Site | AC1 & AC2 |
| Test Mode: | 802.11n-HT20 - Ant 0 + 1<br>(CDD Mode) | Test Channel: | 165 |
| 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 |
|---|---|---|---|---|---|---|---|---|
| | 7460.0 | 37.2 | 10.7 | 47.9 | 74.0 | -26.1 | Peak | Horizontal |
| | 8216.5 | 35.8 | 10.6 | 46.4 | 74.0 | -27.6 | Peak | Horizontal |
| * | 8769.0 | 36.2 | 12.5 | 48.7 | 68.2 | -19.5 | Peak | Horizontal |
| * | 9865.5 | 36.1 | 13.6 | 49.7 | 68.2 | -18.5 | Peak | Horizontal |
| * | 7434.5 | 37.3 | 10.5 | 47.8 | 74.0 | -26.2 | Peak | Vertical |
| | 8106.0 | 37.1 | 11.4 | 48.5 | 74.0 | -25.5 | Peak | Vertical |
| | 8905.0 | 37.2 | 12.5 | 49.7 | 68.2 | -18.5 | Peak | Vertical |
| * | 9865.5 | 36.2 | 13.6 | 49.8 | 68.2 | -18.4 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz or -17dBm/MHz. At a distance of 3 meters, the field strength limit in dBµV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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 | GigaSpire BLAST u4 | Test Engineer | Buter Shi |
|---|---|---|---|
| Test Date | 2020/07/08 ~ 2020/07/14 | Test Site | AC1 & AC2 |
| Test Mode: | 802.11n-HT40 - Ant 0 + 1<br>(CDD Mode) | Test Channel: | 38 |
| 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 |
|---|---|---|---|---|---|---|---|---|
| | 7400.5 | 37.5 | 10.4 | 47.9 | 74.0 | -26.1 | Peak | Horizontal |
| | 8267.5 | 37.2 | 10.6 | 47.8 | 74.0 | -26.2 | Peak | Horizontal |
| * | 8777.5 | 35.9 | 12.4 | 48.3 | 68.2 | -19.9 | Peak | Horizontal |
| * | 9704.0 | 34.7 | 12.9 | 47.6 | 68.2 | -20.6 | Peak | Horizontal |
| | 7494.0 | 37.9 | 10.5 | 48.4 | 74.0 | -25.6 | Peak | Vertical |
| | 8165.5 | 36.4 | 10.7 | 47.1 | 74.0 | -26.9 | Peak | Vertical |
| * | 8735.0 | 36.2 | 12.4 | 48.6 | 68.2 | -19.6 | Peak | Vertical |
| * | 10052.5 | 35.0 | 13.2 | 48.2 | 68.2 | -20.0 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBµV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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 | GigaSpire BLAST u4 | Test Engineer | Buter Shi |
|---|---|---|---|
| Test Date | 2020/07/08 ~ 2020/07/14 | Test Site | AC1 & AC2 |
| Test Mode: | 802.11n-HT40 - Ant 0 + 1<br>(CDD Mode) | Test Channel: | 46 |
| 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 |
|---|---|---|---|---|---|---|---|---|
| | 7511.0 | 37.2 | 10.3 | 47.5 | 74.0 | -26.5 | Peak | Horizontal |
| | 8131.5 | 35.4 | 10.9 | 46.3 | 74.0 | -27.7 | Peak | Horizontal |
| * | 8769.0 | 35.6 | 12.5 | 48.1 | 68.2 | -20.1 | Peak | Horizontal |
| * | 10129.0 | 35.2 | 14.0 | 49.2 | 68.2 | -19.0 | Peak | Horizontal |
| | 7375.0 | 37.1 | 10.1 | 47.2 | 74.0 | -26.8 | Peak | Vertical |
| | 8429.0 | 38.2 | 10.8 | 49.0 | 74.0 | -25.0 | Peak | Vertical |
| * | 8998.5 | 36.1 | 12.3 | 48.4 | 68.2 | -19.8 | Peak | Vertical |
| * | 10001.5 | 35.4 | 13.4 | 48.8 | 68.2 | -19.4 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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 | GigaSpire BLAST u4 | Test Engineer | Buter Shi |
|---|---|---|---|
| Test Date | 2020/07/08 ~ 2020/07/14 | Test Site | AC1 & AC2 |
| Test Mode: | 802.11n-HT40 - Ant 0 + 1<br>(CDD Mode) | Test Channel: | 151 |
| 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 |
|---|---|---|---|---|---|---|---|---|
| | 7621.5 | 38.2 | 10.2 | 48.4 | 74.0 | -25.6 | Peak | Horizontal |
| | 8454.5 | 36.9 | 11.1 | 48.0 | 74.0 | -26.0 | Peak | Horizontal |
| * | 8786.0 | 35.7 | 12.4 | 48.1 | 68.2 | -20.1 | Peak | Horizontal |
| * | 10188.5 | 35.9 | 14.1 | 50.0 | 68.2 | -18.2 | Peak | Horizontal |
| | 7434.5 | 37.7 | 10.5 | 48.2 | 74.0 | -25.8 | Peak | Vertical |
| | 8327.0 | 36.8 | 10.4 | 47.2 | 74.0 | -26.8 | Peak | Vertical |
| * | 8888.0 | 35.5 | 12.3 | 47.8 | 68.2 | -20.4 | Peak | Vertical |
| * | 9738.0 | 35.5 | 13.2 | 48.7 | 68.2 | -19.5 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz or -17dBm/MHz. At a distance of 3 meters, the field strength limit in dBµV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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 | GigaSpire BLAST u4 | Test Engineer | Buter Shi |
|---|---|---|---|
| Test Date | 2020/07/08 ~ 2020/07/14 | Test Site | AC1 & AC2 |
| Test Mode: | 802.11n-HT40 - Ant 0 + 1<br>(CDD Mode) | Test Channel: | 159 |
| 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 |
|---|---|---|---|---|---|---|---|---|
| | 7536.5 | 37.0 | 10.5 | 47.5 | 74.0 | -26.5 | Peak | Horizontal |
| | 8310.0 | 35.9 | 10.4 | 46.3 | 74.0 | -27.7 | Peak | Horizontal |
| * | 8616.0 | 37.2 | 11.8 | 49.0 | 68.2 | -19.2 | Peak | Horizontal |
| * | 9772.0 | 35.4 | 13.1 | 48.5 | 68.2 | -19.7 | Peak | Horizontal |
| | 7494.0 | 37.5 | 10.5 | 48.0 | 74.0 | -26.0 | Peak | Vertical |
| | 8310.0 | 36.1 | 10.4 | 46.5 | 74.0 | -27.5 | Peak | Vertical |
| * | 8811.5 | 35.7 | 12.6 | 48.3 | 68.2 | -19.9 | Peak | Vertical |
| * | 9823.0 | 35.9 | 13.2 | 49.1 | 68.2 | -19.1 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz or -17dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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 | GigaSpire BLAST u4 | Test Engineer | Buter Shi |
|---|---|---|---|
| Test Date | 2020/07/08 ~ 2020/07/14 | Test Site | AC1 & AC2 |
| Test Mode: | 802.11ac-VHT20 -<br>Ant 0 + 1 (CDD Mode) | Test Channel: | 36 |
| 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 |
|---|---|---|---|---|---|---|---|---|
| | 7460.0 | 35.3 | 8.3 | 43.6 | 74.0 | -30.4 | Peak | Horizontal |
| | 8191.0 | 33.9 | 8.5 | 42.4 | 74.0 | -31.6 | Peak | Horizontal |
| * | 8743.5 | 32.8 | 9.9 | 42.7 | 68.2 | -25.5 | Peak | Horizontal |
| * | 9729.5 | 34.6 | 10.8 | 45.4 | 68.2 | -22.8 | Peak | Horizontal |
| | 7443.0 | 34.1 | 8.3 | 42.4 | 74.0 | -31.6 | Peak | Vertical |
| | 8242.0 | 33.7 | 8.5 | 42.2 | 74.0 | -31.8 | Peak | Vertical |
| * | 8760.5 | 32.0 | 10.1 | 42.1 | 68.2 | -26.1 | Peak | Vertical |
| * | 10282.0 | 34.3 | 12.1 | 46.4 | 68.2 | -21.8 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBµV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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 | GigaSpire BLAST u4 | Test Engineer | Buter Shi |
|---|---|---|---|
| Test Date | 2020/07/08 ~ 2020/07/14 | Test Site | AC1 & AC2 |
| Test Mode: | 802.11ac-VHT20 -<br>Ant 0 + 1 (CDD Mode) | Test Channel: | 44 |
| 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 |
|---|---|---|---|---|---|---|---|---|
| | 7536.5 | 34.6 | 8.1 | 42.7 | 74.0 | -31.3 | Peak | Horizontal |
| | 8335.5 | 32.9 | 8.5 | 41.4 | 74.0 | -32.6 | Peak | Horizontal |
| * | 8760.5 | 33.8 | 10.1 | 43.9 | 68.2 | -24.3 | Peak | Horizontal |
| * | 10256.5 | 33.5 | 12.1 | 45.6 | 68.2 | -22.6 | Peak | Horizontal |
| | 7553.5 | 34.3 | 8.2 | 42.5 | 74.0 | -31.5 | Peak | Vertical |
| | 8216.5 | 34.5 | 8.2 | 42.7 | 74.0 | -31.3 | Peak | Vertical |
| * | 8667.0 | 33.6 | 9.6 | 43.2 | 68.2 | -25.0 | Peak | Vertical |
| * | 10188.5 | 34.3 | 11.4 | 45.7 | 68.2 | -22.5 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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 | GigaSpire BLAST u4 | Test Engineer | Buter Shi |
|---|---|---|---|
| Test Date | 2020/07/08 ~ 2020/07/14 | Test Site | AC1 & AC2 |
| Test Mode: | 802.11ac-VHT20 -<br>Ant 0 + 1 (CDD Mode) | Test Channel: | 48 |
| 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 |
|---|---|---|---|---|---|---|---|---|
| | 7502.5 | 33.9 | 8.0 | 41.9 | 74.0 | -32.1 | Peak | Horizontal |
| | 8327.0 | 31.9 | 8.5 | 40.4 | 74.0 | -33.6 | Peak | Horizontal |
| * | 8811.5 | 32.2 | 9.9 | 42.1 | 68.2 | -26.1 | Peak | Horizontal |
| * | 9780.5 | 35.1 | 10.6 | 45.7 | 68.2 | -22.5 | Peak | Horizontal |
| | 7587.5 | 34.1 | 8.3 | 42.4 | 74.0 | -31.6 | Peak | Vertical |
| | 8369.5 | 32.8 | 8.6 | 41.4 | 74.0 | -32.6 | Peak | Vertical |
| * | 8760.5 | 33.5 | 10.1 | 43.6 | 68.2 | -24.6 | Peak | Vertical |
| * | 10069.5 | 33.7 | 11.3 | 45.0 | 68.2 | -23.2 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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 | GigaSpire BLAST u4 | Test Engineer | Buter Shi |
|---|---|---|---|
| Test Date | 2020/07/08 ~ 2020/07/14 | Test Site | AC1 & AC2 |
| Test Mode: | 802.11ac-VHT20 -<br>Ant 0 + 1 (CDD Mode) | Test Channel: | 149 |
| 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 |
|---|---|---|---|---|---|---|---|---|
| | 7511.0 | 34.9 | 7.9 | 42.8 | 74.0 | -31.2 | Peak | Horizontal |
| | 8191.0 | 34.3 | 8.5 | 42.8 | 74.0 | -31.2 | Peak | Horizontal |
| * | 8769.0 | 32.2 | 10.1 | 42.3 | 68.2 | -25.9 | Peak | Horizontal |
| * | 10248.0 | 33.6 | 11.9 | 45.5 | 68.2 | -22.7 | Peak | Horizontal |
| | 7638.5 | 34.3 | 8.1 | 42.4 | 74.0 | -31.6 | Peak | Vertical |
| | 8182.5 | 34.2 | 8.6 | 42.8 | 74.0 | -31.2 | Peak | Vertical |
| * | 8692.5 | 33.4 | 9.6 | 43.0 | 68.2 | -25.2 | Peak | Vertical |
| * | 10324.5 | 33.1 | 12.7 | 45.8 | 68.2 | -22.4 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz or -17dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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 | GigaSpire BLAST u4 | Test Engineer | Buter Shi |
|---|---|---|---|
| Test Date | 2020/07/08 ~ 2020/07/14 | Test Site | AC1 & AC2 |
| Test Mode: | 802.11ac-VHT20 -<br>Ant 0 + 1 (CDD Mode) | Test Channel: | 157 |
| 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 |
|---|---|---|---|---|---|---|---|---|
| | 7443.0 | 34.0 | 8.3 | 42.3 | 74.0 | -31.7 | Peak | Horizontal |
| | 8301.5 | 33.8 | 8.4 | 42.2 | 74.0 | -31.8 | Peak | Horizontal |
| * | 8769.0 | 32.5 | 10.1 | 42.6 | 68.2 | -25.6 | Peak | Horizontal |
| * | 9797.5 | 34.7 | 10.7 | 45.4 | 68.2 | -22.8 | Peak | Horizontal |
| | 7621.5 | 34.6 | 8.1 | 42.7 | 74.0 | -31.3 | Peak | Vertical |
| | 8276.0 | 32.7 | 8.3 | 41.0 | 74.0 | -33.0 | Peak | Vertical |
| * | 8735.0 | 34.0 | 9.8 | 43.8 | 68.2 | -24.4 | Peak | Vertical |
| * | 10256.5 | 33.7 | 12.1 | 45.8 | 68.2 | -22.4 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz or -17dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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 | GigaSpire BLAST u4 | Test Engineer | Buter Shi |
|---|---|---|---|
| Test Date | 2020/07/08 ~ 2020/07/14 | Test Site | AC1 & AC2 |
| Test Mode: | 802.11ac-VHT20 -<br>Ant 0 + 1 (CDD Mode) | Test Channel: | 165 |
| 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 |
|---|---|---|---|---|---|---|---|---|
| | 7434.5 | 34.9 | 8.2 | 43.1 | 74.0 | -30.9 | Peak | Horizontal |
| | 8242.0 | 33.8 | 8.5 | 42.3 | 74.0 | -31.7 | Peak | Horizontal |
| * | 8692.5 | 33.7 | 9.6 | 43.3 | 68.2 | -24.9 | Peak | Horizontal |
| * | 10231.0 | 34.9 | 11.7 | 46.6 | 68.2 | -21.6 | Peak | Horizontal |
| | 7468.5 | 33.9 | 8.2 | 42.1 | 74.0 | -31.9 | Peak | Vertical |
| | 8242.0 | 33.7 | 8.5 | 42.2 | 74.0 | -31.8 | Peak | Vertical |
| * | 8675.5 | 34.2 | 9.5 | 43.7 | 68.2 | -24.5 | Peak | Vertical |
| * | 9687.0 | 34.9 | 10.7 | 45.6 | 68.2 | -22.6 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz or -17dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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 | GigaSpire BLAST u4 | Test Engineer | Buter Shi |
|---|---|---|---|
| Test Date | 2020/07/08 ~ 2020/07/14 | Test Site | AC1 & AC2 |
| Test Mode: | 802.11ac-VHT40 -<br>Ant 0 + 1 (CDD Mode) | Test Channel: | 38 |
| 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 |
|---|---|---|---|---|---|---|---|---|
| | 7477.0 | 37.2 | 10.6 | 47.8 | 74.0 | -26.2 | Peak | Horizontal |
| | 8140.0 | 37.7 | 10.8 | 48.5 | 74.0 | -25.5 | Peak | Horizontal |
| * | 8769.0 | 36.4 | 12.5 | 48.9 | 68.2 | -19.3 | Peak | Horizontal |
| * | 9916.5 | 36.1 | 13.2 | 49.3 | 68.2 | -18.9 | Peak | Horizontal |
| | 7511.0 | 37.6 | 10.3 | 47.9 | 74.0 | -26.1 | Peak | Vertical |
| | 8395.0 | 37.4 | 10.8 | 48.2 | 74.0 | -25.8 | Peak | Vertical |
| * | 8777.5 | 36.3 | 12.4 | 48.7 | 68.2 | -19.5 | Peak | Vertical |
| * | 9721.0 | 35.2 | 13.2 | 48.4 | 68.2 | -19.8 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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 | GigaSpire BLAST u4 | Test Engineer | Buter Shi |
|---|---|---|---|
| Test Date | 2020/07/08 ~ 2020/07/14 | Test Site | AC1 & AC2 |
| Test Mode: | 802.11ac-VHT40 -<br>Ant 0 + 1 (CDD Mode) | Test Channel: | 46 |
| 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 |
|---|---|---|---|---|---|---|---|---|
| | 7409.0 | 36.7 | 10.5 | 47.2 | 74.0 | -26.8 | Peak | Horizontal |
| | 8174.0 | 36.1 | 10.8 | 46.9 | 74.0 | -27.1 | Peak | Horizontal |
| * | 8607.5 | 35.6 | 11.6 | 47.2 | 68.2 | -21.0 | Peak | Horizontal |
| * | 9687.0 | 35.8 | 12.6 | 48.4 | 68.2 | -19.8 | Peak | Horizontal |
| | 7723.5 | 37.6 | 10.3 | 47.9 | 74.0 | -26.1 | Peak | Vertical |
| | 8446.0 | 36.8 | 10.9 | 47.7 | 74.0 | -26.3 | Peak | Vertical |
| * | 8769.0 | 35.4 | 12.5 | 47.9 | 68.2 | -20.3 | Peak | Vertical |
| * | 9678.5 | 34.3 | 12.6 | 46.9 | 68.2 | -21.3 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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 | GigaSpire BLAST u4 | Test Engineer | Buter Shi |
|---|---|---|---|
| Test Date | 2020/07/08 ~ 2020/07/14 | Test Site | AC1 & AC2 |
| Test Mode: | 802.11ac-VHT40 -<br>Ant 0 + 1 (CDD Mode) | Test Channel: | 151 |
| 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 |
|---|---|---|---|---|---|---|---|---|
| | 7681.0 | 37.3 | 10.7 | 48.0 | 74.0 | -26.0 | Peak | Horizontal |
| | 8080.5 | 37.8 | 11.1 | 48.9 | 74.0 | -25.1 | Peak | Horizontal |
| * | 8803.0 | 36.8 | 12.5 | 49.3 | 68.2 | -18.9 | Peak | Horizontal |
| * | 10001.5 | 35.8 | 13.4 | 49.2 | 68.2 | -19.0 | Peak | Horizontal |
| | 7468.5 | 37.7 | 10.7 | 48.4 | 74.0 | -25.6 | Peak | Vertical |
| | 8097.5 | 36.5 | 11.5 | 48.0 | 74.0 | -26.0 | Peak | Vertical |
| * | 8692.5 | 36.3 | 12.3 | 48.6 | 68.2 | -19.6 | Peak | Vertical |
| * | 9908.0 | 35.3 | 13.3 | 48.6 | 68.2 | -19.6 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz or -17dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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 | GigaSpire BLAST u4 | Test Engineer | Buter Shi |
|---|---|---|---|
| Test Date | 2020/07/08 ~ 2020/07/14 | Test Site | AC1 & AC2 |
| Test Mode: | 802.11ac-VHT40 -<br>Ant 0 + 1 (CDD Mode) | Test Channel: | 159 |
| 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 |
|---|---|---|---|---|---|---|---|---|
| | 7621.5 | 37.6 | 10.2 | 47.8 | 74.0 | -26.2 | Peak | Horizontal |
| | 8276.0 | 37.2 | 10.4 | 47.6 | 74.0 | -26.4 | Peak | Horizontal |
| * | 8854.0 | 35.5 | 12.1 | 47.6 | 68.2 | -20.6 | Peak | Horizontal |
| * | 9874.0 | 35.2 | 13.8 | 49.0 | 68.2 | -19.2 | Peak | Horizontal |
| | 7460.0 | 36.9 | 10.7 | 47.6 | 74.0 | -26.4 | Peak | Vertical |
| | 8276.0 | 35.3 | 10.4 | 45.7 | 74.0 | -28.3 | Peak | Vertical |
| * | 8786.0 | 35.4 | 12.4 | 47.8 | 68.2 | -20.4 | Peak | Vertical |
| * | 9593.5 | 34.6 | 12.8 | 47.4 | 68.2 | -20.8 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz or -17dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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 | GigaSpire BLAST u4 | Test Engineer | Buter Shi |
|---|---|---|---|
| Test Date | 2020/07/08 ~ 2020/07/14 | Test Site | AC1 & AC2 |
| Test Mode: | 802.11ac-VHT80 -<br>Ant 0 + 1 (CDD Mode) | Test Channel: | 42 |
| 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 |
|---|---|---|---|---|---|---|---|---|
| | 7604.5 | 36.8 | 10.3 | 47.1 | 74.0 | -26.9 | Peak | Horizontal |
| | 8344.0 | 36.4 | 10.6 | 47.0 | 74.0 | -27.0 | Peak | Horizontal |
| * | 8735.0 | 35.5 | 12.4 | 47.9 | 68.2 | -20.3 | Peak | Horizontal |
| * | 10426.5 | 36.3 | 15.2 | 51.5 | 68.2 | -16.7 | Peak | Horizontal |
| | 7672.5 | 36.9 | 10.4 | 47.3 | 74.0 | -26.7 | Peak | Vertical |
| | 8080.5 | 37.3 | 11.1 | 48.4 | 74.0 | -25.6 | Peak | Vertical |
| * | 8735.0 | 34.8 | 12.4 | 47.2 | 68.2 | -21.0 | Peak | Vertical |
| * | 9882.5 | 36.9 | 13.6 | 50.5 | 68.2 | -17.7 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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 | GigaSpire BLAST u4 | Test Engineer | Buter Shi |
|---|---|---|---|
| Test Date | 2020/07/08 ~ 2020/07/14 | Test Site | AC1 & AC2 |
| Test Mode: | 802.11ac-VHT80 -<br>Ant 0 + 1 (CDD Mode) | Test Channel: | 155 |
| 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 |
|---|---|---|---|---|---|---|---|---|
| | 7443.0 | 37.3 | 10.7 | 48.0 | 74.0 | -26.0 | Peak | Horizontal |
| | 8165.5 | 36.6 | 10.7 | 47.3 | 74.0 | -26.7 | Peak | Horizontal |
| * | 8735.0 | 35.7 | 12.4 | 48.1 | 68.2 | -20.1 | Peak | Horizontal |
| * | 9678.5 | 35.6 | 12.6 | 48.2 | 68.2 | -20.0 | Peak | Horizontal |
| | 7587.5 | 37.0 | 10.5 | 47.5 | 74.0 | -26.5 | Peak | Vertical |
| | 8165.5 | 37.1 | 10.7 | 47.8 | 74.0 | -26.2 | Peak | Vertical |
| * | 8582.0 | 35.5 | 11.5 | 47.0 | 68.2 | -21.2 | Peak | Vertical |
| * | 9857.0 | 35.8 | 13.4 | 49.2 | 68.2 | -19.0 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz or -17dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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 | GigaSpire BLAST u4 | Test Engineer | Buter Shi |
|---|---|---|---|
| Test Date | 2020/07/08 ~ 2020/07/14 | Test Site | AC1 & AC2 |
| Test Mode: | 802.11ax-HE20 -<br>Ant 0 + 1 (CDD Mode) | Test Channel: | 36 |
| 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 |
|---|---|---|---|---|---|---|---|---|
| | 7409.0 | 37.3 | 10.5 | 47.8 | 74.0 | -26.2 | Peak | Horizontal |
| | 8063.5 | 37.9 | 11.0 | 48.9 | 74.0 | -25.1 | Peak | Horizontal |
| * | 8709.5 | 37.6 | 12.1 | 49.7 | 68.2 | -18.5 | Peak | Horizontal |
| * | 9721.0 | 35.0 | 13.2 | 48.2 | 68.2 | -20.0 | Peak | Horizontal |
| | 7502.5 | 36.3 | 10.4 | 46.7 | 74.0 | -27.3 | Peak | Vertical |
| | 8072.0 | 37.6 | 11.0 | 48.6 | 74.0 | -25.4 | Peak | Vertical |
| * | 8769.0 | 36.7 | 12.5 | 49.2 | 68.2 | -19.0 | Peak | Vertical |
| * | 9984.5 | 35.7 | 13.6 | 49.3 | 68.2 | -18.9 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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 | GigaSpire BLAST u4 | Test Engineer | Buter Shi |
|---|---|---|---|
| Test Date | 2020/07/08 ~ 2020/07/14 | Test Site | AC1 & AC2 |
| Test Mode: | 802.11ax-HE20 -<br>Ant 0 + 1 (CDD Mode) | Test Channel: | 44 |
| 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 |
|---|---|---|---|---|---|---|---|---|
| | 7460.0 | 37.4 | 10.7 | 48.1 | 74.0 | -25.9 | Peak | Horizontal |
| | 8029.5 | 37.0 | 10.9 | 47.9 | 74.0 | -26.1 | Peak | Horizontal |
| * | 8735.0 | 37.2 | 12.4 | 49.6 | 68.2 | -18.6 | Peak | Horizontal |
| * | 10163.0 | 36.5 | 13.6 | 50.1 | 68.2 | -18.1 | Peak | Horizontal |
| | 7417.5 | 37.6 | 10.4 | 48.0 | 74.0 | -26.0 | Peak | Vertical |
| | 8165.5 | 37.3 | 10.7 | 48.0 | 74.0 | -26.0 | Peak | Vertical |
| * | 8811.5 | 35.7 | 12.6 | 48.3 | 68.2 | -19.9 | Peak | Vertical |
| * | 9738.0 | 35.2 | 13.2 | 48.4 | 68.2 | -19.8 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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 | GigaSpire BLAST u4 | Test Engineer | Buter Shi |
|---|---|---|---|
| Test Date | 2020/07/08 ~ 2020/07/14 | Test Site | AC1 & AC2 |
| Test Mode: | 802.11ax-HE20 -<br>Ant 0 + 1 (CDD Mode) | Test Channel: | 48 |
| 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 |
|---|---|---|---|---|---|---|---|---|
| | 7689.5 | 37.5 | 10.5 | 48.0 | 74.0 | -26.0 | Peak | Horizontal |
| | 8123.0 | 37.2 | 11.1 | 48.3 | 74.0 | -25.7 | Peak | Horizontal |
| * | 8539.5 | 35.8 | 11.2 | 47.0 | 68.2 | -21.2 | Peak | Horizontal |
| * | 9678.5 | 35.0 | 12.6 | 47.6 | 68.2 | -20.6 | Peak | Horizontal |
| | 7468.5 | 37.3 | 10.7 | 48.0 | 74.0 | -26.0 | Peak | Vertical |
| | 8046.5 | 38.0 | 11.1 | 49.1 | 74.0 | -24.9 | Peak | Vertical |
| * | 8692.5 | 36.9 | 12.3 | 49.2 | 68.2 | -19.0 | Peak | Vertical |
| * | 9772.0 | 35.0 | 13.1 | 48.1 | 68.2 | -20.1 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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 | GigaSpire BLAST u4 | Test Engineer | Buter Shi |
|---|---|---|---|
| Test Date | 2020/07/08 ~ 2020/07/14 | Test Site | AC1 & AC2 |
| Test Mode: | 802.11ax-HE20 -<br>Ant 0 + 1 (CDD Mode) | Test Channel: | 149 |
| 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 |
|---|---|---|---|---|---|---|---|---|
| | 7417.5 | 37.3 | 10.4 | 47.7 | 74.0 | -26.3 | Peak | Horizontal |
| | 8242.0 | 36.8 | 10.7 | 47.5 | 74.0 | -26.5 | Peak | Horizontal |
| * | 8888.0 | 35.3 | 12.3 | 47.6 | 68.2 | -20.6 | Peak | Horizontal |
| * | 9636.0 | 35.9 | 12.8 | 48.7 | 68.2 | -19.5 | Peak | Horizontal |
| | 7468.5 | 37.3 | 10.7 | 48.0 | 74.0 | -26.0 | Peak | Vertical |
| | 8233.5 | 37.3 | 10.6 | 47.9 | 74.0 | -26.1 | Peak | Vertical |
| * | 8692.5 | 36.1 | 12.3 | 48.4 | 68.2 | -19.8 | Peak | Vertical |
| * | 9593.5 | 34.7 | 12.8 | 47.5 | 68.2 | -20.7 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz or -17dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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 | GigaSpire BLAST u4 | Test Engineer | Buter Shi |
|---|---|---|---|
| Test Date | 2020/07/08 ~ 2020/07/14 | Test Site | AC1 & AC2 |
| Test Mode: | 802.11ax-HE20 - Ant 0 + 1 (CDD Mode) | Test Channel: | 157 |
| 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 |
|---|---|---|---|---|---|---|---|---|
| | 7681.0 | 36.4 | 10.7 | 47.1 | 74.0 | -26.9 | Peak | Horizontal |
| | 8250.5 | 36.9 | 10.8 | 47.7 | 74.0 | -26.3 | Peak | Horizontal |
| * | 8964.5 | 36.5 | 12.2 | 48.7 | 68.2 | -19.5 | Peak | Horizontal |
| * | 9704.0 | 35.8 | 12.9 | 48.7 | 68.2 | -19.5 | Peak | Horizontal |
| | 7681.0 | 36.7 | 10.7 | 47.4 | 74.0 | -26.6 | Peak | Vertical |
| | 8344.0 | 37.0 | 10.6 | 47.6 | 74.0 | -26.4 | Peak | Vertical |
| * | 8871.0 | 36.1 | 12.4 | 48.5 | 68.2 | -19.7 | Peak | Vertical |
| * | 9840.0 | 35.1 | 13.4 | 48.5 | 68.2 | -19.7 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz or -17dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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 | GigaSpire BLAST u4 | Test Engineer | Buter Shi |
|---|---|---|---|
| Test Date | 2020/07/08 ~ 2020/07/14 | Test Site | AC1 & AC2 |
| Test Mode: | 802.11ax-HE20 - Ant 0 + 1 (CDD Mode) | Test Channel: | 165 |
| 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 |
|---|---|---|---|---|---|---|---|---|
| | 7638.5 | 37.8 | 10.1 | 47.9 | 74.0 | -26.1 | Peak | Horizontal |
| | 8250.5 | 36.9 | 10.8 | 47.7 | 74.0 | -26.3 | Peak | Horizontal |
| * | 8735.0 | 35.9 | 12.4 | 48.3 | 68.2 | -19.9 | Peak | Horizontal |
| * | 9882.5 | 36.0 | 13.6 | 49.6 | 68.2 | -18.6 | Peak | Horizontal |
| | 7689.5 | 37.5 | 10.5 | 48.0 | 74.0 | -26.0 | Peak | Vertical |
| | 8233.5 | 37.3 | 10.6 | 47.9 | 74.0 | -26.1 | Peak | Vertical |
| * | 8752.0 | 36.5 | 12.6 | 49.1 | 68.2 | -19.1 | Peak | Vertical |
| * | 10018.5 | 36.2 | 13.3 | 49.5 | 68.2 | -18.7 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz or -17dBm/MHz. At a distance of 3 meters, the field strength limit in dBµV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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 | GigaSpire BLAST u4 | Test Engineer | Buter Shi |
|---|---|---|---|
| Test Date | 2020/07/08 ~ 2020/07/14 | Test Site | AC1 & AC2 |
| Test Mode: | 802.11ax-HE40 -<br>Ant 0 + 1 (CDD Mode) | Test Channel: | 38 |
| 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 |
|---|---|---|---|---|---|---|---|---|
| | 7545.0 | 36.8 | 10.7 | 47.5 | 74.0 | -26.5 | Peak | Horizontal |
| | 8318.5 | 37.1 | 10.4 | 47.5 | 74.0 | -26.5 | Peak | Horizontal |
| * | 8752.0 | 36.3 | 12.6 | 48.9 | 68.2 | -19.3 | Peak | Horizontal |
| * | 10018.5 | 36.5 | 13.3 | 49.8 | 68.2 | -18.4 | Peak | Horizontal |
| | 7613.0 | 37.1 | 10.2 | 47.3 | 74.0 | -26.7 | Peak | Vertical |
| | 8242.0 | 36.9 | 10.7 | 47.6 | 74.0 | -26.4 | Peak | Vertical |
| * | 8811.5 | 35.7 | 12.6 | 48.3 | 68.2 | -19.9 | Peak | Vertical |
| * | 9517.0 | 37.0 | 13.1 | 50.1 | 68.2 | -18.1 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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 | GigaSpire BLAST u4 | Test Engineer | Buter Shi |
|---|---|---|---|
| Test Date | 2020/07/08 ~ 2020/07/14 | Test Site | AC1 & AC2 |
| Test Mode: | 802.11ax-HE40 -<br>Ant 0 + 1 (CDD Mode) | Test Channel: | 46 |
| 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 |
|---|---|---|---|---|---|---|---|---|
| | 7689.5 | 37.7 | 10.5 | 48.2 | 74.0 | -25.8 | Peak | Horizontal |
| | 8454.5 | 37.0 | 11.1 | 48.1 | 74.0 | -25.9 | Peak | Horizontal |
| * | 8735.0 | 35.9 | 12.4 | 48.3 | 68.2 | -19.9 | Peak | Horizontal |
| * | 9772.0 | 34.8 | 13.1 | 47.9 | 68.2 | -20.3 | Peak | Horizontal |
| | 7468.5 | 37.2 | 10.7 | 47.9 | 74.0 | -26.1 | Peak | Vertical |
| | 8250.5 | 36.3 | 10.8 | 47.1 | 74.0 | -26.9 | Peak | Vertical |
| * | 8658.5 | 36.0 | 12.1 | 48.1 | 68.2 | -20.1 | Peak | Vertical |
| * | 9823.0 | 35.3 | 13.2 | 48.5 | 68.2 | -19.7 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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 | GigaSpire BLAST u4 | Test Engineer | Buter Shi |
|---|---|---|---|
| Test Date | 2020/07/08 ~ 2020/07/14 | Test Site | AC1 & AC2 |
| Test Mode: | 802.11ax-HE40 -<br>Ant 0 + 1 (CDD Mode) | Test Channel: | 151 |
| 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 |
|---|---|---|---|---|---|---|---|---|
| | 7485.5 | 37.8 | 10.5 | 48.3 | 74.0 | -25.7 | Peak | Horizontal |
| | 8199.5 | 36.6 | 10.6 | 47.2 | 74.0 | -26.8 | Peak | Horizontal |
| * | 8803.0 | 36.0 | 12.5 | 48.5 | 68.2 | -19.7 | Peak | Horizontal |
| * | 10324.5 | 36.3 | 14.9 | 51.2 | 68.2 | -17.0 | Peak | Horizontal |
| | 7655.5 | 37.5 | 10.1 | 47.6 | 74.0 | -26.4 | Peak | Vertical |
| | 8174.0 | 37.6 | 10.8 | 48.4 | 74.0 | -25.6 | Peak | Vertical |
| * | 8769.0 | 35.7 | 12.5 | 48.2 | 68.2 | -20.0 | Peak | Vertical |
| * | 9874.0 | 35.7 | 13.8 | 49.5 | 68.2 | -18.7 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz or -17dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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 | GigaSpire BLAST u4 | Test Engineer | Buter Shi |
|---|---|---|---|
| Test Date | 2020/07/08 ~ 2020/07/14 | Test Site | AC1 & AC2 |
| Test Mode: | 802.11ax-HE40 -<br>Ant 0 + 1 (CDD Mode) | Test Channel: | 159 |
| 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 |
|---|---|---|---|---|---|---|---|---|
| | 7434.5 | 36.9 | 10.5 | 47.4 | 74.0 | -26.6 | Peak | Horizontal |
| | 8182.5 | 37.6 | 10.7 | 48.3 | 74.0 | -25.7 | Peak | Horizontal |
| * | 8888.0 | 35.2 | 12.3 | 47.5 | 68.2 | -20.7 | Peak | Horizontal |
| * | 9916.5 | 34.2 | 13.2 | 47.4 | 68.2 | -20.8 | Peak | Horizontal |
| | 7324.0 | 37.1 | 10.6 | 47.7 | 74.0 | -26.3 | Peak | Vertical |
| | 8284.5 | 37.4 | 10.4 | 47.8 | 74.0 | -26.2 | Peak | Vertical |
| * | 8616.0 | 36.7 | 11.8 | 48.5 | 68.2 | -19.7 | Peak | Vertical |
| * | 9729.5 | 35.3 | 13.2 | 48.5 | 68.2 | -19.7 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz or -17dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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 | GigaSpire BLAST u4 | Test Engineer | Buter Shi |
|---|---|---|---|
| Test Date | 2020/07/08 ~ 2020/07/14 | Test Site | AC1 & AC2 |
| Test Mode: | 802.11ax-HE80 - Ant 0 + 1 (CDD Mode) | Test Channel: | 42 |
| 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 |
|---|---|---|---|---|---|---|---|---|
| | 7655.5 | 35.8 | 11.4 | 47.2 | 74.0 | -26.8 | Peak | Horizontal |
| | 8310.0 | 35.9 | 12.2 | 48.1 | 74.0 | -25.9 | Peak | Horizontal |
| * | 9772.0 | 35.7 | 16.7 | 52.4 | 68.2 | -15.8 | Peak | Horizontal |
| * | 17473.0 | 37.4 | 22.1 | 59.5 | 68.2 | -8.7 | Peak | Horizontal |
| | 7468.5 | 36.7 | 11.8 | 48.5 | 74.0 | -25.5 | Peak | Vertical |
| | 8165.5 | 36.0 | 12.4 | 48.4 | 74.0 | -25.6 | Peak | Vertical |
| * | 9916.5 | 36.2 | 16.9 | 53.1 | 68.2 | -15.1 | Peak | Vertical |
| * | 17269.0 | 37.3 | 20.5 | 57.8 | 68.2 | -10.4 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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 | GigaSpire BLAST u4 | Test Engineer | Buter Shi |
|---|---|---|---|
| Test Date | 2020/07/08 ~ 2020/07/14 | Test Site | AC1 & AC2 |
| Test Mode: | 802.11ax-HE80 -<br>Ant 0 + 1 (CDD Mode) | Test Channel: | 155 |
| 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 |
|---|---|---|---|---|---|---|---|---|
| | 7494.0 | 36.9 | 10.5 | 47.4 | 74.0 | -26.6 | Peak | Horizontal |
| | 8276.0 | 36.5 | 10.4 | 46.9 | 74.0 | -27.1 | Peak | Horizontal |
| * | 8692.5 | 35.7 | 12.3 | 48.0 | 68.2 | -20.2 | Peak | Horizontal |
| * | 9993.0 | 34.5 | 13.5 | 48.0 | 68.2 | -20.2 | Peak | Horizontal |
| | 7392.0 | 38.3 | 10.3 | 48.6 | 74.0 | -25.4 | Peak | Vertical |
| | 8199.5 | 37.3 | 10.6 | 47.9 | 74.0 | -26.1 | Peak | Vertical |
| * | 8735.0 | 35.2 | 12.4 | 47.6 | 68.2 | -20.6 | Peak | Vertical |
| * | 9814.5 | 33.6 | 13.2 | 46.8 | 68.2 | -21.4 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz or -17dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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 | GigaSpire BLAST u4 | Test Engineer | Buter Shi |
|---|---|---|---|
| Test Date | 2020/08/14 | Test Site | AC2 |
| Test Mode: | 802.11ac-VHT20 -<br>Ant 0 + 1 (Beamforming Mode) | Test Channel: | 36 |
| 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 |
|---|---|---|---|---|---|---|---|---|
| | 7494.0 | 34.3 | 8.2 | 42.5 | 74.0 | -31.5 | Peak | Horizontal |
| | 8131.5 | 34.1 | 8.8 | 42.9 | 74.0 | -31.1 | Peak | Horizontal |
| * | 8752.0 | 32.9 | 10.1 | 43.0 | 68.2 | -25.2 | Peak | Horizontal |
| * | 9857.0 | 34.9 | 10.9 | 45.8 | 68.2 | -22.4 | Peak | Horizontal |
| | 7536.5 | 31.9 | 8.1 | 40.0 | 74.0 | -34.0 | Peak | Vertical |
| | 8284.5 | 34.2 | 8.4 | 42.6 | 74.0 | -31.4 | Peak | Vertical |
| * | 8769.0 | 33.4 | 10.1 | 43.5 | 68.2 | -24.7 | Peak | Vertical |
| * | 10392.5 | 34.2 | 12.5 | 46.7 | 68.2 | -21.5 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBµV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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 | GigaSpire BLAST u4 | Test Engineer | Buter Shi |
|---|---|---|---|
| Test Date | 2020/08/14 | Test Site | AC2 |
| Test Mode: | 802.11ac-VHT20 -<br>Ant 0 + 1 (Beamforming Mode) | Test Channel: | 44 |
| 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 |
|---|---|---|---|---|---|---|---|---|
| | 7315.5 | 34.2 | 8.2 | 42.4 | 74.0 | -31.6 | Peak | Horizontal |
| | 8165.5 | 33.6 | 8.5 | 42.1 | 74.0 | -31.9 | Peak | Horizontal |
| * | 8743.5 | 33.6 | 9.9 | 43.5 | 68.2 | -24.7 | Peak | Horizontal |
| * | 9882.5 | 35.6 | 10.9 | 46.5 | 68.2 | -21.7 | Peak | Horizontal |
| | 7332.5 | 34.4 | 8.1 | 42.5 | 74.0 | -31.5 | Peak | Vertical |
| | 8165.5 | 34.8 | 8.5 | 43.3 | 74.0 | -30.7 | Peak | Vertical |
| * | 8760.5 | 33.3 | 10.1 | 43.4 | 68.2 | -24.8 | Peak | Vertical |
| * | 10299.0 | 33.9 | 12.3 | 46.2 | 68.2 | -22.0 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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 | GigaSpire BLAST u4 | Test Engineer | Buter Shi |
|---|---|---|---|
| Test Date | 2020/08/14 | Test Site | AC2 |
| Test Mode: | 802.11ac-VHT20 -<br>Ant 0 + 1 (Beamforming Mode) | Test Channel: | 48 |
| 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 |
|---|---|---|---|---|---|---|---|---|
| | 7545.0 | 33.3 | 8.2 | 41.5 | 74.0 | -32.5 | Peak | Horizontal |
| | 8267.5 | 33.7 | 8.3 | 42.0 | 74.0 | -32.0 | Peak | Horizontal |
| * | 8896.5 | 33.7 | 10.0 | 43.7 | 68.2 | -24.5 | Peak | Horizontal |
| * | 10146.0 | 34.1 | 11.1 | 45.2 | 68.2 | -23.0 | Peak | Horizontal |
| | 7485.5 | 33.2 | 8.3 | 41.5 | 74.0 | -32.5 | Peak | Vertical |
| | 8199.5 | 32.8 | 8.4 | 41.2 | 74.0 | -32.8 | Peak | Vertical |
| * | 8760.5 | 33.1 | 10.1 | 43.2 | 68.2 | -25.0 | Peak | Vertical |
| * | 9993.0 | 34.3 | 11.1 | 45.4 | 68.2 | -22.8 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBµV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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 | GigaSpire BLAST u4 | Test Engineer | Buter Shi |
|---|---|---|---|
| Test Date | 2020/08/14 | Test Site | AC2 |
| Test Mode: | 802.11ac-VHT20 -<br>Ant 0 + 1 (Beamforming Mode) | Test Channel: | 149 |
| 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 |
|---|---|---|---|---|---|---|---|---|
| | 7553.5 | 33.6 | 8.2 | 41.8 | 74.0 | -32.2 | Peak | Horizontal |
| | 8199.5 | 34.4 | 8.4 | 42.8 | 74.0 | -31.2 | Peak | Horizontal |
| * | 8735.0 | 32.6 | 9.8 | 42.4 | 68.2 | -25.8 | Peak | Horizontal |
| * | 9661.5 | 35.0 | 10.8 | 45.8 | 68.2 | -22.4 | Peak | Horizontal |
| | 7451.5 | 34.2 | 8.3 | 42.5 | 74.0 | -31.5 | Peak | Vertical |
| | 8301.5 | 32.4 | 8.4 | 40.8 | 74.0 | -33.2 | Peak | Vertical |
| * | 8777.5 | 34.9 | 10.0 | 44.9 | 68.2 | -23.3 | Peak | Vertical |
| * | 9857.0 | 33.9 | 10.9 | 44.8 | 68.2 | -23.4 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz or -17dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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 | GigaSpire BLAST u4 | Test Engineer | Buter Shi |
|---|---|---|---|
| Test Date | 2020/08/14 | Test Site | AC2 |
| Test Mode: | 802.11ac-VHT20 -<br>Ant 0 + 1 (Beamforming Mode) | Test Channel: | 157 |
| 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 |
|---|---|---|---|---|---|---|---|---|
| | 7545.0 | 32.9 | 8.2 | 41.1 | 74.0 | -32.9 | Peak | Horizontal |
| | 8276.0 | 32.8 | 8.3 | 41.1 | 74.0 | -32.9 | Peak | Horizontal |
| * | 8735.0 | 33.0 | 9.8 | 42.8 | 68.2 | -25.4 | Peak | Horizontal |
| * | 10010.0 | 35.0 | 11.2 | 46.2 | 68.2 | -22.0 | Peak | Horizontal |
| | 7443.0 | 33.2 | 8.3 | 41.5 | 74.0 | -32.5 | Peak | Vertical |
| | 8250.5 | 34.6 | 8.4 | 43.0 | 74.0 | -31.0 | Peak | Vertical |
| * | 8811.5 | 33.8 | 9.9 | 43.7 | 68.2 | -24.5 | Peak | Vertical |
| * | 9848.5 | 34.2 | 10.9 | 45.1 | 68.2 | -23.1 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz or -17dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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 | GigaSpire BLAST u4 | Test Engineer | Buter Shi |
|---|---|---|---|
| Test Date | 2020/08/14 | Test Site | AC2 |
| Test Mode: | 802.11ac-VHT20 -<br>Ant 0 + 1 (Beamforming Mode) | Test Channel: | 165 |
| 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 |
|---|---|---|---|---|---|---|---|---|
| | 7468.5 | 32.5 | 8.2 | 40.7 | 74.0 | -33.3 | Peak | Horizontal |
| | 8276.0 | 35.2 | 8.3 | 43.5 | 74.0 | -30.5 | Peak | Horizontal |
| * | 8743.5 | 33.2 | 9.9 | 43.1 | 68.2 | -25.1 | Peak | Horizontal |
| * | 10384.0 | 34.6 | 12.5 | 47.1 | 68.2 | -21.1 | Peak | Horizontal |
| | 7502.5 | 32.1 | 8.0 | 40.1 | 74.0 | -33.9 | Peak | Vertical |
| | 8284.5 | 34.0 | 8.4 | 42.4 | 74.0 | -31.6 | Peak | Vertical |
| * | 8769.0 | 33.3 | 10.1 | 43.4 | 68.2 | -24.8 | Peak | Vertical |
| * | 9882.5 | 34.0 | 10.9 | 44.9 | 68.2 | -23.3 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz or -17dBm/MHz. At a distance of 3 meters, the field strength limit in dBµV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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 | GigaSpire BLAST u4 | Test Engineer | Buter Shi |
|---|---|---|---|
| Test Date | 2020/08/14 | Test Site | AC2 |
| Test Mode: | 802.11ac-VHT40 -<br>Ant 0 + 1 (Beamforming Mode) | Test Channel: | 38 |
| 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 |
|---|---|---|---|---|---|---|---|---|
| | 7468.5 | 32.8 | 8.2 | 41.0 | 74.0 | -33.0 | Peak | Horizontal |
| | 8267.5 | 34.2 | 8.3 | 42.5 | 74.0 | -31.5 | Peak | Horizontal |
| * | 8794.5 | 33.3 | 10.0 | 43.3 | 68.2 | -24.9 | Peak | Horizontal |
| * | 9814.5 | 35.1 | 10.7 | 45.8 | 68.2 | -22.4 | Peak | Horizontal |
| | 7400.5 | 33.7 | 8.2 | 41.9 | 74.0 | -32.1 | Peak | Vertical |
| | 8208.0 | 34.5 | 8.3 | 42.8 | 74.0 | -31.2 | Peak | Vertical |
| * | 8743.5 | 33.7 | 9.9 | 43.6 | 68.2 | -24.6 | Peak | Vertical |
| * | 9789.0 | 34.9 | 10.7 | 45.6 | 68.2 | -22.6 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBµV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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 | GigaSpire BLAST u4 | Test Engineer | Buter Shi |
|---|---|---|---|
| Test Date | 2020/08/14 | Test Site | AC2 |
| Test Mode: | 802.11ac-VHT40 -<br>Ant 0 + 1 (Beamforming Mode) | Test Channel: | 46 |
| 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 |
|---|---|---|---|---|---|---|---|---|
| | 7519.5 | 33.1 | 7.9 | 41.0 | 74.0 | -33.0 | Peak | Horizontal |
| | 8216.5 | 35.9 | 8.2 | 44.1 | 74.0 | -29.9 | Peak | Horizontal |
| * | 8837.0 | 34.5 | 9.8 | 44.3 | 68.2 | -23.9 | Peak | Horizontal |
| * | 9857.0 | 34.3 | 10.9 | 45.2 | 68.2 | -23.0 | Peak | Horizontal |
| | 7511.0 | 32.2 | 7.9 | 40.1 | 74.0 | -33.9 | Peak | Vertical |
| | 8276.0 | 33.6 | 8.3 | 41.9 | 74.0 | -32.1 | Peak | Vertical |
| * | 8735.0 | 33.5 | 9.8 | 43.3 | 68.2 | -24.9 | Peak | Vertical |
| * | 9848.5 | 34.8 | 10.9 | 45.7 | 68.2 | -22.5 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBµV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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 | GigaSpire BLAST u4 | Test Engineer | Buter Shi |
|---|---|---|---|
| Test Date | 2020/08/14 | Test Site | AC2 |
| Test Mode: | 802.11ac-VHT40 -<br>Ant 0 + 1 (Beamforming Mode) | Test Channel: | 151 |
| 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 |
|---|---|---|---|---|---|---|---|---|
| | 7417.5 | 31.9 | 8.1 | 40.0 | 74.0 | -34.0 | Peak | Horizontal |
| | 8276.0 | 33.0 | 8.3 | 41.3 | 74.0 | -32.7 | Peak | Horizontal |
| * | 8735.0 | 32.5 | 9.8 | 42.3 | 68.2 | -25.9 | Peak | Horizontal |
| * | 9865.5 | 35.0 | 10.9 | 45.9 | 68.2 | -22.3 | Peak | Horizontal |
| | 7417.5 | 34.0 | 8.1 | 42.1 | 74.0 | -31.9 | Peak | Vertical |
| | 8259.0 | 34.7 | 8.2 | 42.9 | 74.0 | -31.1 | Peak | Vertical |
| * | 8803.0 | 33.5 | 10.0 | 43.5 | 68.2 | -24.7 | Peak | Vertical |
| * | 9695.5 | 33.8 | 10.8 | 44.6 | 68.2 | -23.6 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz or -17dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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 | GigaSpire BLAST u4 | Test Engineer | Buter Shi |
|---|---|---|---|
| Test Date | 2020/08/14 | Test Site | AC2 |
| Test Mode: | 802.11ac-VHT40 -<br>Ant 0 + 1 (Beamforming Mode) | Test Channel: | 159 |
| 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 |
|---|---|---|---|---|---|---|---|---|
| | 7502.5 | 32.9 | 8.0 | 40.9 | 74.0 | -33.1 | Peak | Horizontal |
| | 8174.0 | 33.6 | 8.6 | 42.2 | 74.0 | -31.8 | Peak | Horizontal |
| * | 8735.0 | 33.6 | 9.8 | 43.4 | 68.2 | -24.8 | Peak | Horizontal |
| * | 9882.5 | 34.5 | 10.9 | 45.4 | 68.2 | -22.8 | Peak | Horizontal |
| | 7485.5 | 34.4 | 8.3 | 42.7 | 74.0 | -31.3 | Peak | Vertical |
| | 8199.5 | 33.8 | 8.4 | 42.2 | 74.0 | -31.8 | Peak | Vertical |
| * | 8624.5 | 34.9 | 9.3 | 44.2 | 68.2 | -24.0 | Peak | Vertical |
| * | 10239.5 | 33.8 | 11.8 | 45.6 | 68.2 | -22.6 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz or -17dBm/MHz. At a distance of 3 meters, the field strength limit in dBµV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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 | GigaSpire BLAST u4 | Test Engineer | Buter Shi |
|---|---|---|---|
| Test Date | 2020/08/14 | Test Site | AC2 |
| Test Mode: | 802.11ac-VHT80 -<br>Ant 0 + 1 (Beamforming Mode) | Test Channel: | 42 |
| 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 |
|---|---|---|---|---|---|---|---|---|
| | 7417.5 | 33.4 | 8.1 | 41.5 | 74.0 | -32.5 | Peak | Horizontal |
| | 8106.0 | 34.3 | 9.1 | 43.4 | 74.0 | -30.6 | Peak | Horizontal |
| * | 8769.0 | 33.6 | 10.1 | 43.7 | 68.2 | -24.5 | Peak | Horizontal |
| * | 10350.0 | 33.6 | 12.6 | 46.2 | 68.2 | -22.0 | Peak | Horizontal |
| | 7477.0 | 32.7 | 8.2 | 40.9 | 74.0 | -33.1 | Peak | Vertical |
| | 8250.5 | 34.6 | 8.4 | 43.0 | 74.0 | -31.0 | Peak | Vertical |
| * | 8760.5 | 33.8 | 10.1 | 43.9 | 68.2 | -24.3 | Peak | Vertical |
| * | 9763.5 | 35.3 | 10.7 | 46.0 | 68.2 | -22.2 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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 | GigaSpire BLAST u4 | Test Engineer | Buter Shi |
|---|---|---|---|
| Test Date | 2020/08/14 | Test Site | AC2 |
| Test Mode: | 802.11ac-VHT80 -<br>Ant 0 + 1 (Beamforming Mode) | Test Channel: | 155 |
| 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 |
|---|---|---|---|---|---|---|---|---|
| | 7545.0 | 34.3 | 8.2 | 42.5 | 74.0 | -31.5 | Peak | Horizontal |
| | 8250.5 | 34.0 | 8.4 | 42.4 | 74.0 | -31.6 | Peak | Horizontal |
| * | 8709.5 | 34.3 | 9.5 | 43.8 | 68.2 | -24.4 | Peak | Horizontal |
| * | 9882.5 | 34.2 | 10.9 | 45.1 | 68.2 | -23.1 | Peak | Horizontal |
| | 7494.0 | 33.0 | 8.2 | 41.2 | 74.0 | -32.8 | Peak | Vertical |
| | 8301.5 | 34.9 | 8.4 | 43.3 | 74.0 | -30.7 | Peak | Vertical |
| * | 8752.0 | 33.5 | 10.1 | 43.6 | 68.2 | -24.6 | Peak | Vertical |
| * | 9967.5 | 34.3 | 11.4 | 45.7 | 68.2 | -22.5 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz or -17dBm/MHz. At a distance of 3 meters, the field strength limit in dBµV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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 | GigaSpire BLAST u4 | Test Engineer | Buter Shi |
|---|---|---|---|
| Test Date | 2020/08/14 | Test Site | AC2 |
| Test Mode: | 802.11ax-HE20 -<br>Ant 0 + 1 (Beamforming Mode) | Test Channel: | 36 |
| 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 |
|---|---|---|---|---|---|---|---|---|
| | 7545.0 | 33.2 | 8.2 | 41.4 | 74.0 | -32.6 | Peak | Horizontal |
| | 8208.0 | 33.8 | 8.3 | 42.1 | 74.0 | -31.9 | Peak | Horizontal |
| * | 8735.0 | 33.1 | 9.8 | 42.9 | 68.2 | -25.3 | Peak | Horizontal |
| * | 10460.5 | 34.4 | 12.6 | 47.0 | 68.2 | -21.2 | Peak | Horizontal |
| | 7477.0 | 32.9 | 8.2 | 41.1 | 74.0 | -32.9 | Peak | Vertical |
| | 8276.0 | 32.8 | 8.3 | 41.1 | 74.0 | -32.9 | Peak | Vertical |
| * | 8862.5 | 32.3 | 9.9 | 42.2 | 68.2 | -26.0 | Peak | Vertical |
| * | 9814.5 | 35.4 | 10.7 | 46.1 | 68.2 | -22.1 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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 | GigaSpire BLAST u4 | Test Engineer | Buter Shi |
|---|---|---|---|
| Test Date | 2020/08/14 | Test Site | AC2 |
| Test Mode: | 802.11ax-HE20 -<br>Ant 0 + 1 (Beamforming Mode) | Test Channel: | 44 |
| 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 |
|---|---|---|---|---|---|---|---|---|
| | 7477.0 | 33.6 | 8.2 | 41.8 | 74.0 | -32.2 | Peak | Horizontal |
| | 8199.5 | 32.7 | 8.4 | 41.1 | 74.0 | -32.9 | Peak | Horizontal |
| * | 8777.5 | 33.4 | 10.0 | 43.4 | 68.2 | -24.8 | Peak | Horizontal |
| * | 9814.5 | 33.9 | 10.7 | 44.6 | 68.2 | -23.6 | Peak | Horizontal |
| | 7519.5 | 32.4 | 7.9 | 40.3 | 74.0 | -33.7 | Peak | Vertical |
| | 8199.5 | 33.4 | 8.4 | 41.8 | 74.0 | -32.2 | Peak | Vertical |
| * | 8633.0 | 34.9 | 9.4 | 44.3 | 68.2 | -23.9 | Peak | Vertical |
| * | 9942.0 | 33.5 | 10.9 | 44.4 | 68.2 | -23.8 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBµV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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 | GigaSpire BLAST u4 | Test Engineer | Buter Shi |
|---|---|---|---|
| Test Date | 2020/08/14 | Test Site | AC2 |
| Test Mode: | 802.11ax-HE20 -<br>Ant 0 + 1 (Beamforming Mode) | Test Channel: | 48 |
| 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 |
|---|---|---|---|---|---|---|---|---|
| | 7502.5 | 32.4 | 8.0 | 40.4 | 74.0 | -33.6 | Peak | Horizontal |
| | 8284.5 | 33.4 | 8.4 | 41.8 | 74.0 | -32.2 | Peak | Horizontal |
| * | 8735.0 | 33.8 | 9.8 | 43.6 | 68.2 | -24.6 | Peak | Horizontal |
| * | 10001.5 | 33.8 | 11.2 | 45.0 | 68.2 | -23.2 | Peak | Horizontal |
| | 7502.5 | 33.7 | 8.0 | 41.7 | 74.0 | -32.3 | Peak | Vertical |
| | 8216.5 | 33.2 | 8.2 | 41.4 | 74.0 | -32.6 | Peak | Vertical |
| * | 8701.0 | 31.8 | 9.6 | 41.4 | 68.2 | -26.8 | Peak | Vertical |
| * | 9806.0 | 34.9 | 10.7 | 45.6 | 68.2 | -22.6 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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 | GigaSpire BLAST u4 | Test Engineer | Buter Shi |
|---|---|---|---|
| Test Date | 2020/08/14 | Test Site | AC2 |
| Test Mode: | 802.11ax-HE20 -<br>Ant 0 + 1 (Beamforming Mode) | Test Channel: | 149 |
| 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 |
|---|---|---|---|---|---|---|---|---|
| | 7502.5 | 32.8 | 8.0 | 40.8 | 74.0 | -33.2 | Peak | Horizontal |
| | 8242.0 | 33.6 | 8.5 | 42.1 | 74.0 | -31.9 | Peak | Horizontal |
| * | 8777.5 | 32.9 | 10.0 | 42.9 | 68.2 | -25.3 | Peak | Horizontal |
| * | 9823.0 | 34.1 | 10.7 | 44.8 | 68.2 | -23.4 | Peak | Horizontal |
| | 7468.5 | 33.0 | 8.2 | 41.2 | 74.0 | -32.8 | Peak | Vertical |
| | 8242.0 | 34.4 | 8.5 | 42.9 | 74.0 | -31.1 | Peak | Vertical |
| * | 8752.0 | 33.6 | 10.1 | 43.7 | 68.2 | -24.5 | Peak | Vertical |
| * | 9831.5 | 33.7 | 10.8 | 44.5 | 68.2 | -23.7 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz or -17dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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 | GigaSpire BLAST u4 | Test Engineer | Buter Shi |
|---|---|---|---|
| Test Date | 2020/08/14 | Test Site | AC2 |
| Test Mode: | 802.11ax-HE20 -<br>Ant 0 + 1 (Beamforming Mode) | Test Channel: | 157 |
| 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 |
|---|---|---|---|---|---|---|---|---|
| | 7468.5 | 33.1 | 8.2 | 41.3 | 74.0 | -32.7 | Peak | Horizontal |
| | 8199.5 | 34.3 | 8.4 | 42.7 | 74.0 | -31.3 | Peak | Horizontal |
| * | 8769.0 | 34.1 | 10.1 | 44.2 | 68.2 | -24.0 | Peak | Horizontal |
| * | 9848.5 | 33.9 | 10.9 | 44.8 | 68.2 | -23.4 | Peak | Horizontal |
| | 7443.0 | 34.0 | 8.3 | 42.3 | 74.0 | -31.7 | Peak | Vertical |
| | 8208.0 | 34.2 | 8.3 | 42.5 | 74.0 | -31.5 | Peak | Vertical |
| * | 8794.5 | 33.8 | 10.0 | 43.8 | 68.2 | -24.4 | Peak | Vertical |
| * | 9891.0 | 34.5 | 11.0 | 45.5 | 68.2 | -22.7 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz or -17dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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 | GigaSpire BLAST u4 | Test Engineer | Buter Shi |
|---|---|---|---|
| Test Date | 2020/08/14 | Test Site | AC2 |
| Test Mode: | 802.11ax-HE20 -<br>Ant 0 + 1 (Beamforming Mode) | Test Channel: | 165 |
| 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 |
|---|---|---|---|---|---|---|---|---|
| | 7460.0 | 33.2 | 8.3 | 41.5 | 74.0 | -32.5 | Peak | Horizontal |
| | 8276.0 | 33.2 | 8.3 | 41.5 | 74.0 | -32.5 | Peak | Horizontal |
| * | 8888.0 | 34.5 | 10.0 | 44.5 | 68.2 | -23.7 | Peak | Horizontal |
| * | 9857.0 | 34.7 | 10.9 | 45.6 | 68.2 | -22.6 | Peak | Horizontal |
| | 7545.0 | 32.4 | 8.2 | 40.6 | 74.0 | -33.4 | Peak | Vertical |
| | 8182.5 | 34.6 | 8.6 | 43.2 | 74.0 | -30.8 | Peak | Vertical |
| * | 8692.5 | 32.5 | 9.6 | 42.1 | 68.2 | -26.1 | Peak | Vertical |
| * | 9823.0 | 34.8 | 10.7 | 45.5 | 68.2 | -22.7 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz or -17dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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 | GigaSpire BLAST u4 | Test Engineer | Buter Shi |
|---|---|---|---|
| Test Date | 2020/08/14 | Test Site | AC2 |
| Test Mode: | 802.11ax-HE40 -<br>Ant 0 + 1 (Beamforming Mode) | Test Channel: | 38 |
| 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 |
|---|---|---|---|---|---|---|---|---|
| | 7511.0 | 31.9 | 7.9 | 39.8 | 74.0 | -34.2 | Peak | Horizontal |
| | 8310.0 | 32.0 | 8.4 | 40.4 | 74.0 | -33.6 | Peak | Horizontal |
| * | 8769.0 | 32.6 | 10.1 | 42.7 | 68.2 | -25.5 | Peak | Horizontal |
| * | 10010.0 | 35.0 | 11.2 | 46.2 | 68.2 | -22.0 | Peak | Horizontal |
| | 7460.0 | 32.8 | 8.3 | 41.1 | 74.0 | -32.9 | Peak | Vertical |
| | 8242.0 | 33.8 | 8.5 | 42.3 | 74.0 | -31.7 | Peak | Vertical |
| * | 8803.0 | 33.7 | 10.0 | 43.7 | 68.2 | -24.5 | Peak | Vertical |
| * | 9857.0 | 33.3 | 10.9 | 44.2 | 68.2 | -24.0 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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 | GigaSpire BLAST u4 | Test Engineer | Buter Shi |
|---|---|---|---|
| Test Date | 2020/08/14 | Test Site | AC2 |
| Test Mode: | 802.11ax-HE40 -<br>Ant 0 + 1 (Beamforming Mode) | Test Channel: | 46 |
| 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 |
|---|---|---|---|---|---|---|---|---|
| | 7477.0 | 32.6 | 8.2 | 40.8 | 74.0 | -33.2 | Peak | Horizontal |
| | 8242.0 | 32.9 | 8.5 | 41.4 | 74.0 | -32.6 | Peak | Horizontal |
| * | 8777.5 | 34.5 | 10.0 | 44.5 | 68.2 | -23.7 | Peak | Horizontal |
| * | 9891.0 | 35.5 | 11.0 | 46.5 | 68.2 | -21.7 | Peak | Horizontal |
| | 7485.5 | 32.8 | 8.3 | 41.1 | 74.0 | -32.9 | Peak | Vertical |
| | 8259.0 | 33.8 | 8.2 | 42.0 | 74.0 | -32.0 | Peak | Vertical |
| * | 8786.0 | 33.0 | 10.0 | 43.0 | 68.2 | -25.2 | Peak | Vertical |
| * | 9823.0 | 34.4 | 10.7 | 45.1 | 68.2 | -23.1 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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 | GigaSpire BLAST u4 | Test Engineer | Buter Shi |
|---|---|---|---|
| Test Date | 2020/08/14 | Test Site | AC2 |
| Test Mode: | 802.11ax-HE40 -<br>Ant 0 + 1 (Beamforming Mode) | Test Channel: | 151 |
| 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 |
|---|---|---|---|---|---|---|---|---|
| | 7434.5 | 31.8 | 8.2 | 40.0 | 74.0 | -34.0 | Peak | Horizontal |
| | 8276.0 | 33.6 | 8.3 | 41.9 | 74.0 | -32.1 | Peak | Horizontal |
| * | 8811.5 | 31.8 | 9.9 | 41.7 | 68.2 | -26.5 | Peak | Horizontal |
| * | 9789.0 | 34.4 | 10.7 | 45.1 | 68.2 | -23.1 | Peak | Horizontal |
| | 7434.5 | 34.6 | 8.2 | 42.8 | 74.0 | -31.2 | Peak | Vertical |
| | 8259.0 | 32.8 | 8.2 | 41.0 | 74.0 | -33.0 | Peak | Vertical |
| * | 8718.0 | 32.5 | 9.4 | 41.9 | 68.2 | -26.3 | Peak | Vertical |
| * | 9840.0 | 33.6 | 10.9 | 44.5 | 68.2 | -23.7 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz or -17dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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 | GigaSpire BLAST u4 | Test Engineer | Buter Shi |
|---|---|---|---|
| Test Date | 2020/08/14 | Test Site | AC2 |
| Test Mode: | 802.11ax-HE40 -<br>Ant 0 + 1 (Beamforming Mode) | Test Channel: | 159 |
| 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 |
|---|---|---|---|---|---|---|---|---|
| | 7417.5 | 32.8 | 8.1 | 40.9 | 74.0 | -33.1 | Peak | Horizontal |
| | 8191.0 | 34.6 | 8.5 | 43.1 | 74.0 | -30.9 | Peak | Horizontal |
| * | 8845.5 | 33.7 | 9.9 | 43.6 | 68.2 | -24.6 | Peak | Horizontal |
| * | 9916.5 | 34.2 | 11.0 | 45.2 | 68.2 | -23.0 | Peak | Horizontal |
| | 7443.0 | 33.5 | 8.3 | 41.8 | 74.0 | -32.2 | Peak | Vertical |
| | 8276.0 | 33.7 | 8.3 | 42.0 | 74.0 | -32.0 | Peak | Vertical |
| * | 8760.5 | 33.0 | 10.1 | 43.1 | 68.2 | -25.1 | Peak | Vertical |
| * | 10069.5 | 34.6 | 11.3 | 45.9 | 68.2 | -22.3 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz or -17dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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 | GigaSpire BLAST u4 | Test Engineer | Buter Shi |
|---|---|---|---|
| Test Date | 2020/08/14 | Test Site | AC2 |
| Test Mode: | 802.11ax-HE80 -<br>Ant 0 + 1 (Beamforming Mode) | Test Channel: | 42 |
| 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 |
|---|---|---|---|---|---|---|---|---|
| | 7502.5 | 32.8 | 8.0 | 40.8 | 74.0 | -33.2 | Peak | Horizontal |
| | 8242.0 | 32.9 | 8.5 | 41.4 | 74.0 | -32.6 | Peak | Horizontal |
| * | 8820.0 | 34.1 | 9.8 | 43.9 | 68.2 | -24.3 | Peak | Horizontal |
| * | 9967.5 | 34.3 | 11.4 | 45.7 | 68.2 | -22.5 | Peak | Horizontal |
| | 7468.5 | 33.2 | 8.2 | 41.4 | 74.0 | -32.6 | Peak | Vertical |
| | 8242.0 | 33.9 | 8.5 | 42.4 | 74.0 | -31.6 | Peak | Vertical |
| * | 8743.5 | 32.3 | 9.9 | 42.2 | 68.2 | -26.0 | Peak | Vertical |
| * | 9789.0 | 34.3 | 10.7 | 45.0 | 68.2 | -23.2 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBµV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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 | GigaSpire BLAST u4 | Test Engineer | Buter Shi |
|---|---|---|---|
| Test Date | 2020/08/14 | Test Site | AC2 |
| Test Mode: | 802.11ax-HE80 -<br>Ant 0 + 1 (Beamforming Mode) | Test Channel: | 155 |
| 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 |
|---|---|---|---|---|---|---|---|---|
| | 7468.5 | 33.6 | 8.2 | 41.8 | 74.0 | -32.2 | Peak | Horizontal |
| | 8208.0 | 34.8 | 8.3 | 43.1 | 74.0 | -30.9 | Peak | Horizontal |
| * | 8786.0 | 33.8 | 10.0 | 43.8 | 68.2 | -24.4 | Peak | Horizontal |
| * | 9976.0 | 34.9 | 11.4 | 46.3 | 68.2 | -21.9 | Peak | Horizontal |
| | 7477.0 | 33.6 | 8.2 | 41.8 | 74.0 | -32.2 | Peak | Vertical |
| | 8182.5 | 34.5 | 8.6 | 43.1 | 74.0 | -30.9 | Peak | Vertical |
| * | 8752.0 | 33.3 | 10.1 | 43.4 | 68.2 | -24.8 | Peak | Vertical |
| * | 9797.5 | 34.8 | 10.7 | 45.5 | 68.2 | -22.7 | Peak | Vertical |

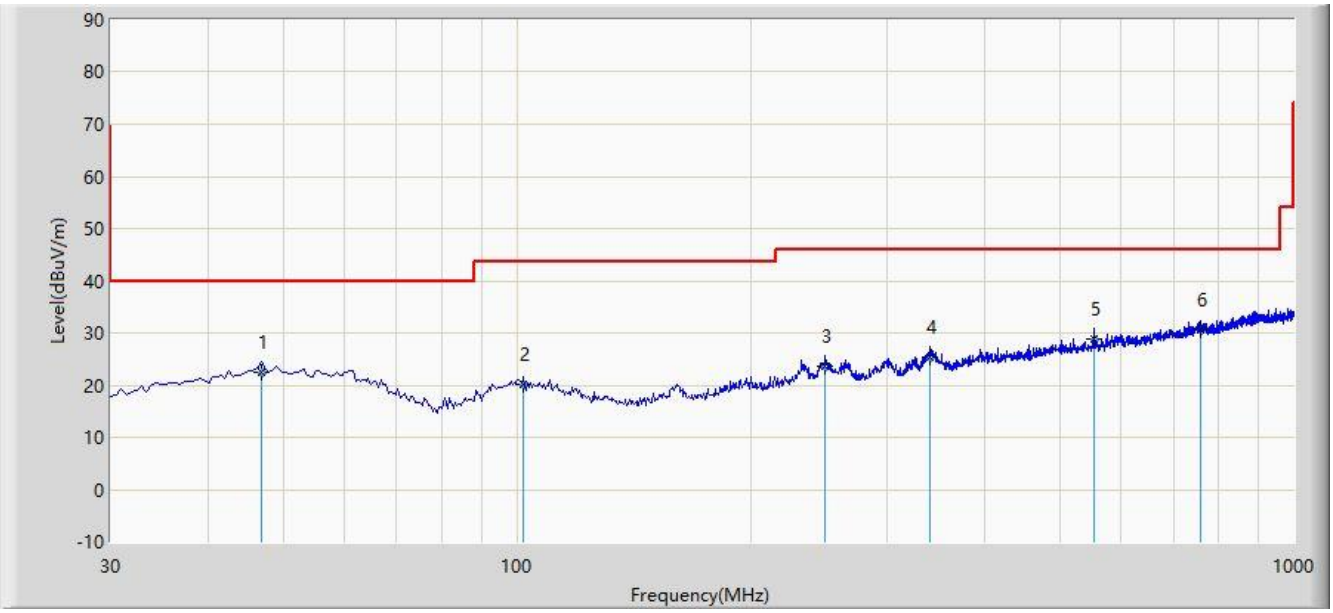
Note 1: “*” is not in restricted band, its limit is -27dBm/MHz or -17dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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

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

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

| | |
|---|---|
| Site: AC2 | Time: 2020/08/12 - 21:21 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Hyde Yu |
| Probe: AC2_VULB9162_0.03-7GHz | Polarity: Horizontal |
| EUT: GigaSpire BLAST u4 | Power: AC 120V/60Hz |
| **Test mode 1** | |



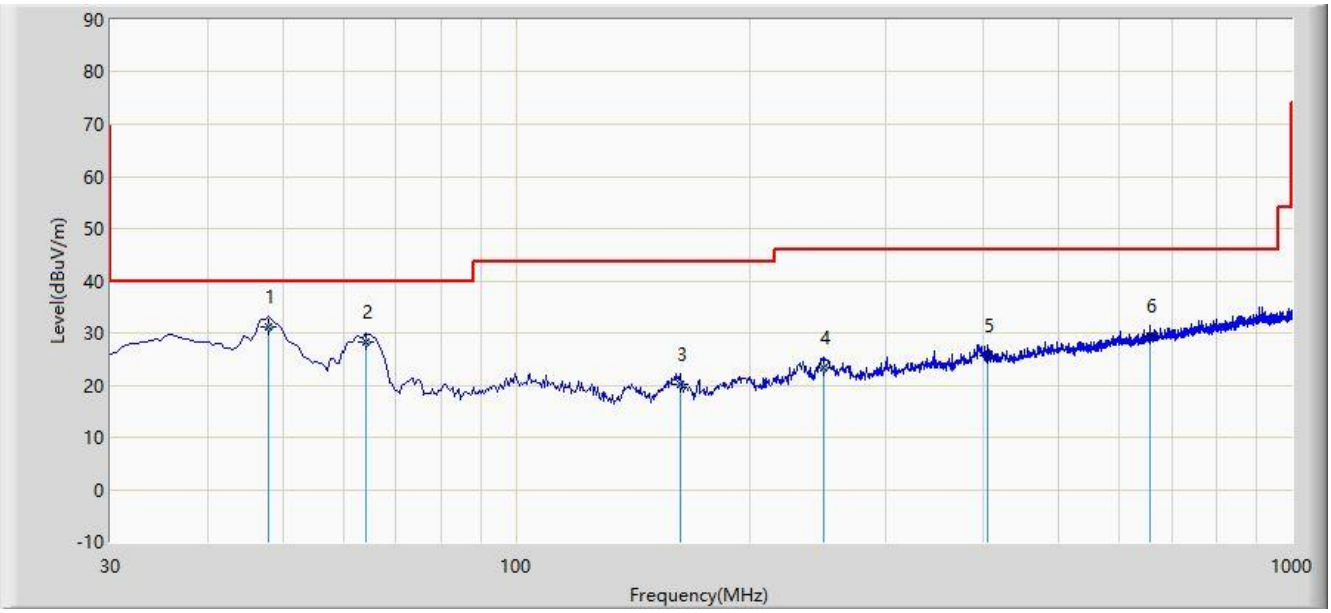

| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 46.975 | 22.511 | 2.194 | -17.489 | 40.000 | 20.316 | QP |
| 2 | | | 101.780 | 20.208 | 1.955 | -23.292 | 43.500 | 18.253 | QP |
| 3 | | | 249.220 | 23.522 | 4.223 | -22.478 | 46.000 | 19.299 | QP |
| 4 | | | 340.400 | 25.321 | 3.670 | -20.679 | 46.000 | 21.652 | QP |
| 5 | | | 553.315 | 28.795 | 3.746 | -17.205 | 46.000 | 25.049 | QP |
| 6 | | * | 759.925 | 30.455 | 2.177 | -15.545 | 46.000 | 28.278 | 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 ~ 30MHz, 18GHz to 40GHz) 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: AC2 | Time: 2020/08/12 - 21:23 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Hyde Yu |
| Probe: AC2_VULB9162_0.03-7GHz | Polarity: Vertical |
| EUT: GigaSpire BLAST u4 | Power: AC 120V/60Hz |
| **Test mode 1** | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 47.945 | 31.185 | 10.830 | -8.815 | 40.000 | 20.355 | QP |
| 2 | | | 63.950 | 28.126 | 10.009 | -11.874 | 40.000 | 18.117 | QP |
| 3 | | | 162.890 | 20.151 | 4.648 | -23.349 | 43.500 | 15.503 | QP |
| 4 | | | 249.705 | 23.347 | 4.037 | -22.653 | 46.000 | 19.310 | QP |
| 5 | | | 405.875 | 25.598 | 2.865 | -20.402 | 46.000 | 22.733 | QP |
| 6 | | | 655.650 | 29.563 | 3.030 | -16.437 | 46.000 | 26.533 | 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 ~ 30MHz, 18GHz to 40GHz) 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.

## 6.8. Radiated Restricted Band Edge Measurement

### 6.8.1.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 | 8.25 - 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 - 156.525 | 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 | -- | -- | -- |

**For 15.407(b) requirement:**

For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

For transmitters operating in the 5.725-5.85 GHz band: All emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of −17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an e.i.r.p. of −27 dBm/MHz.

Refer to KDB 789033 D02v02r01 G)2)c), as specified in § 15.407(b), emissions above 1000 MHz that are outside of the restricted bands are subject to a maximum emission limit of -27 dBm/MHz (or -17 dBm/MHz as specified in § 15.407(b)(4)). However, an out-of-band emission that complies with

both the peak and average limits of § 15.209 is not required to satisfy the -27 dBm/MHz or -17 dBm/MHz maximum emission limit.

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

| FCC Part 15 Subpart C Paragraph 15.209 | | |
|---|---|---|
| Frequency [MHz] | Field Strength [uV/m] | Measured Distance [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 |

**For 15.407(b) requirement:**

For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of −27 dBm/MHz at 75 MHz or more above or below the band edge increasinglinearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasinglinearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edgeincreasing linearly to a level of 27 dBm/MHz at the band edge.

Refer to KDB 789033 D02v02r01 G)2)c), as specified in § 15.407(b), emissions above 1000 MHz that are outside of the restricted bands are subject to a maximum emission limit of -27 dBm/MHz (or -17 dBm/MHz as specified in § 15.407(b)(4)). However, an out-of-band emission that complies with both the peak and average limits of § 15.209 is not required to satisfy the -27 dBm/MHz or -17 dBm/MHz maximum emission limit.

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

| FCC Part 15 Subpart C Paragraph 15.209 | | |
|---|---|---|
| Frequency [MHz] | Field Strength [uV/m] | Measured Distance [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 |

### 6.8.2.Test Procedure Used

KDB 789033 D02v02r01 – Section G

### 6.8.3.Test Setting

**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

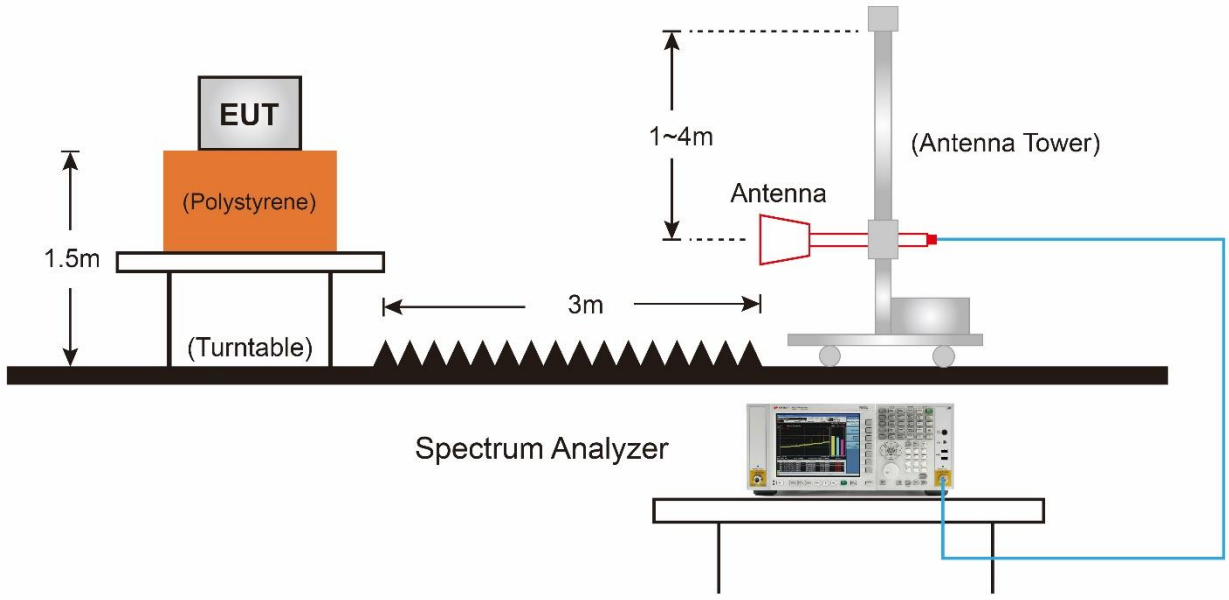
3. VBWIf the EUT is configured to transmit with duty cycle ≥ 98%, set VBW ≤ RBW/100 (i.e., 10 kHz) but not less than 10 Hz. If the EUT duty cycle is < 98%, set VBW ≥ 1/T.

4. Detector = Peak

5. Sweep time = auto

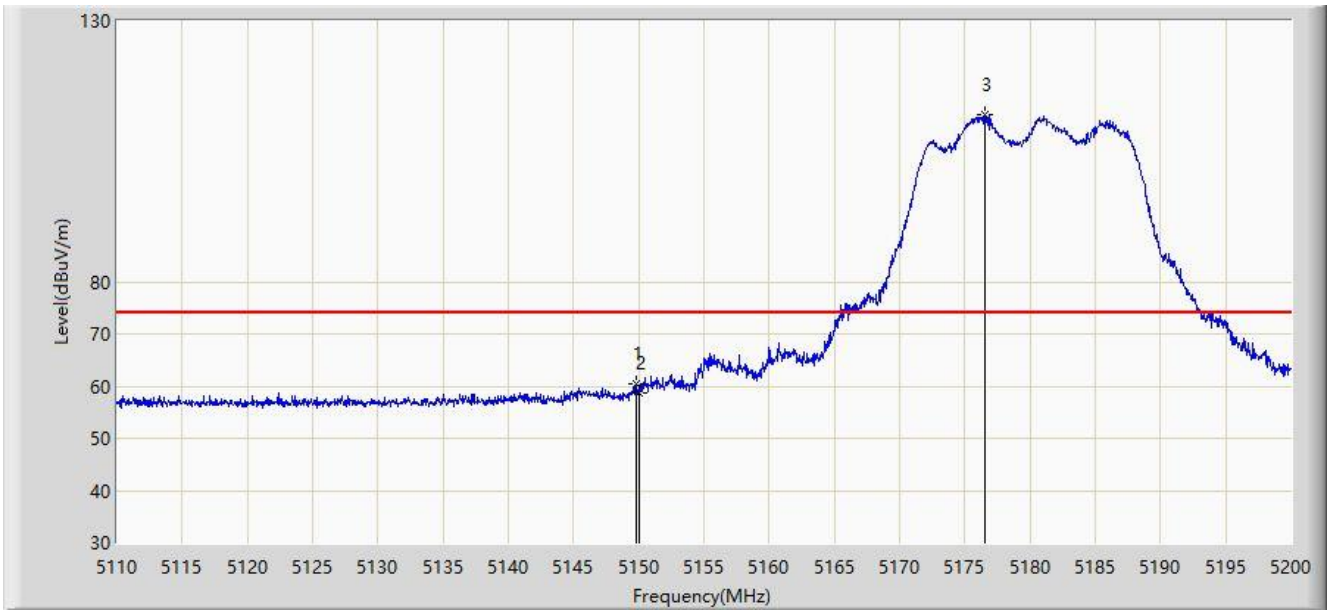
6. Allow max hold to run for at least 50 traces if the transmitted signal is continuous or has at least 98% duty cycle. For lower duty cycles, increase the minimum number of traces by a factor of 1/x, where x is the duty cycle.

### 6.8.4.Test Setup



### 6.8.5.Test Result

| | |
|---|---|
| Site: AC2 | Time: 2020/06/26 - 12:49 |
| Limit: FCC_Part15_RE(3m) | Engineer: Hyde Yu |
| Probe: AC2_BBHA9120D_1-18GHz | Polarity: Horizontal |
| EUT: GigaSpire BLAST u4 | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11a at Channel 5180MHz - CDD Mode | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5149.780 | 60.298 | 59.898 | -13.702 | 74.000 | 0.400 | PK |
| 2 | | | 5150.000 | 58.790 | 58.388 | -15.210 | 74.000 | 0.402 | PK |
| 3 | | * | 5176.510 | 112.092 | 111.700 | N/A | N/A | 0.392 | PK |

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

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

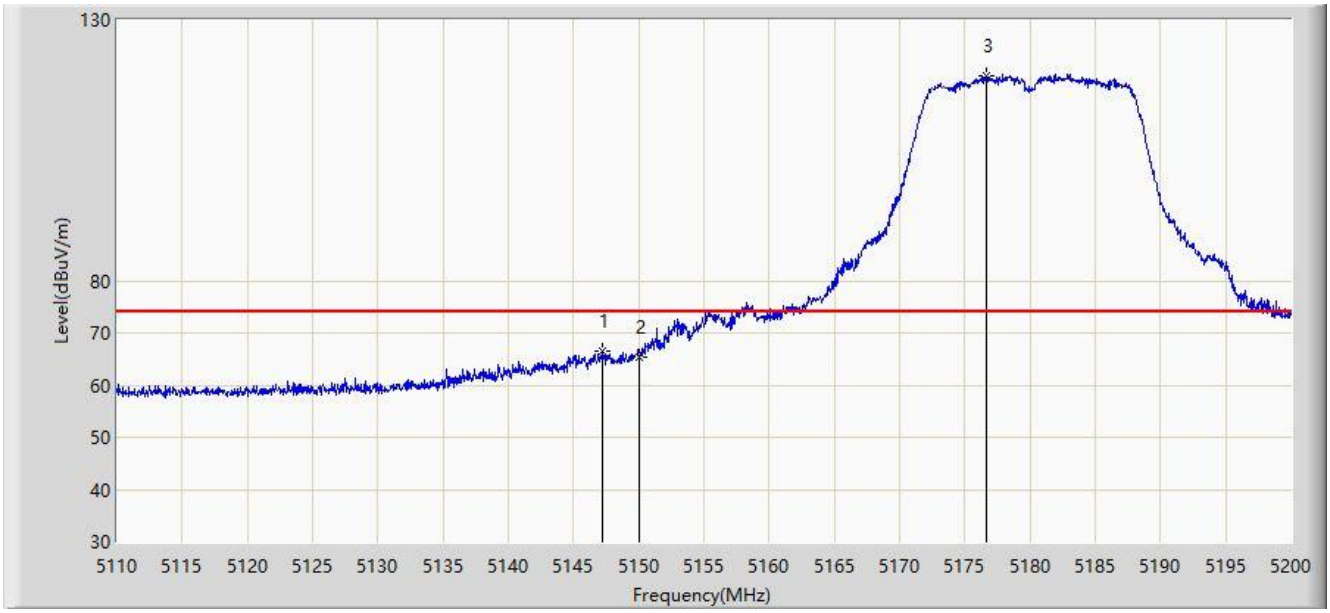
| | |
|---|---|
| Site: AC2 | Time: 2020/06/26 - 12:50 |
| Limit: FCC_Part15_RE(3m) | Engineer: Hyde Yu |
| Probe: AC2_BBHA9120D_1-18GHz | Polarity: Horizontal |
| EUT: GigaSpire BLAST u4 | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11a at Channel 5180MHz - CDD Mode | |


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5150.000 | 47.673 | 47.271 | -6.327 | 54.000 | 0.402 | AV |
| 2 | | * | 5181.235 | 101.605 | 101.267 | N/A | N/A | 0.338 | AV |

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

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

| | |
|---|---|
| Site: AC2 | Time: 2020/06/26 - 12:46 |
| Limit: FCC_Part15_RE(3m) | Engineer: Hyde Yu |
| Probe: AC2_BBHA9120D_1-18GHz | Polarity: Vertical |
| EUT: GigaSpire BLAST u4 | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11a at Channel 5180MHz - CDD Mode | |

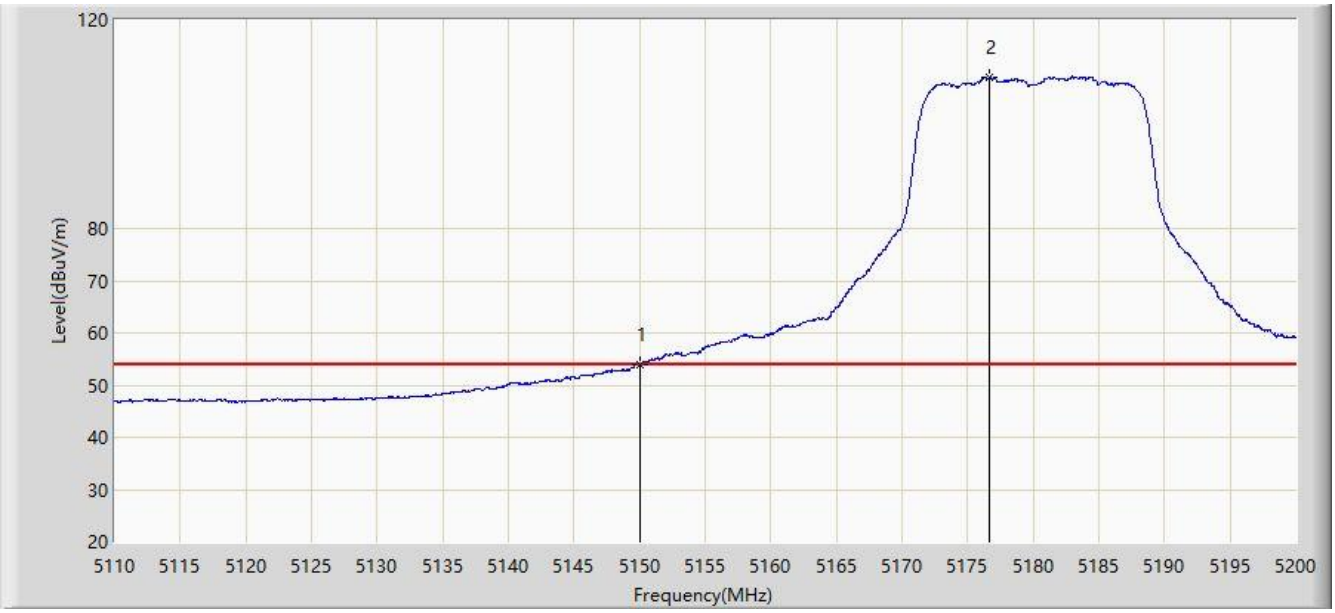



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5147.170 | 66.523 | 66.144 | -7.477 | 74.000 | 0.379 | PK |
| 2 | | | 5150.000 | 65.351 | 64.949 | -8.649 | 74.000 | 0.402 | PK |
| 3 | | * | 5176.600 | 119.334 | 118.943 | N/A | N/A | 0.391 | PK |

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

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

| | |
|---|---|
| Site: AC2 | Time: 2020/06/26 - 12:44 |
| Limit: FCC_Part15_RE(3m) | Engineer: Hyde Yu |
| Probe: AC2_BBHA9120D_1-18GHz | Polarity: Vertical |
| EUT: GigaSpire BLAST u4 | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11a at Channel 5180MHz - CDD Mode | |

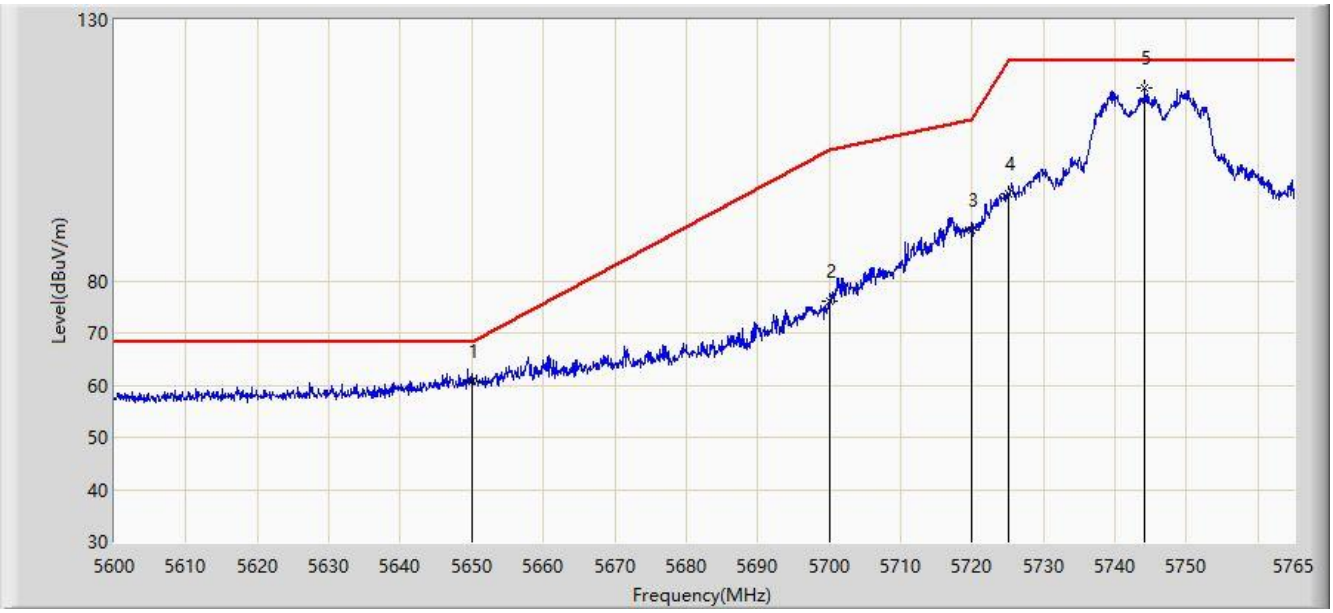



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5150.000 | 53.843 | 53.441 | -0.157 | 54.000 | 0.402 | AV |
| 2 | | * | 5176.645 | 109.006 | 108.616 | N/A | N/A | 0.390 | AV |

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

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

| | |
|---|---|
| Site: AC2 | Time: 2020/06/26 - 13:45 |
| Limit: FCC_Part15.407_RE(3m) | Engineer: Hyde Yu |
| Probe: AC2_BBHA9120D_1-18GHz | Polarity: Horizontal |
| EUT: GigaSpire BLAST u4 | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11a at Channel 5745MHz - CDD Mode | |

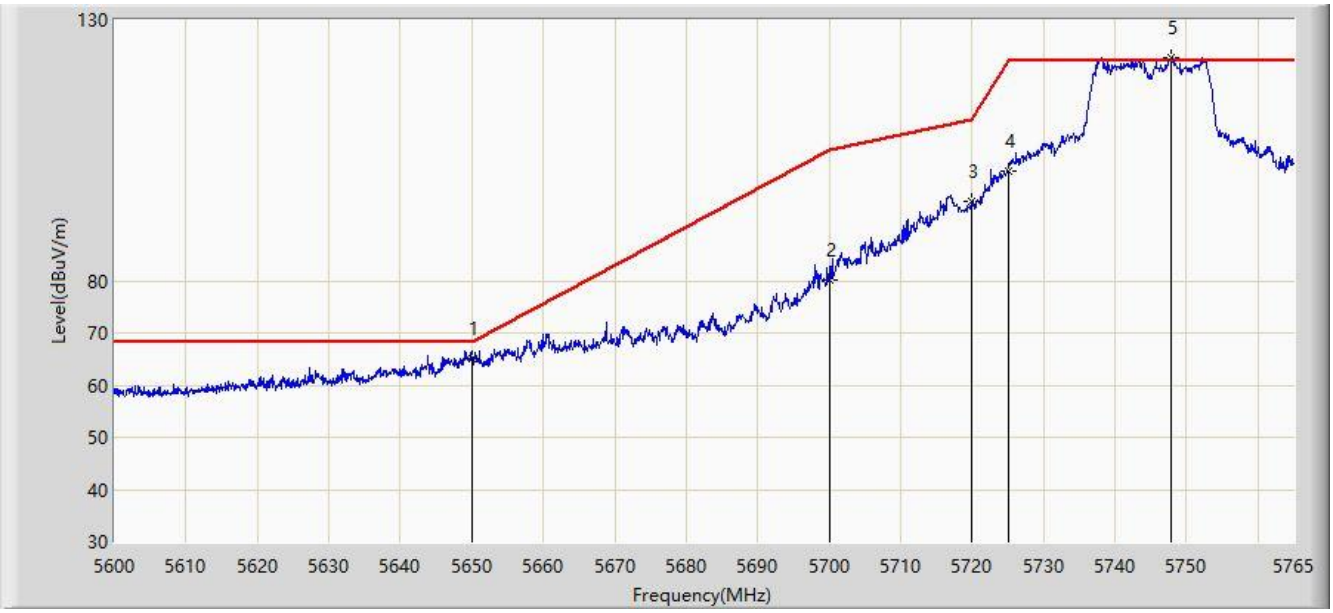



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5650.000 | 60.736 | 59.363 | -7.464 | 68.200 | 1.373 | PK |
| 2 | | | 5700.000 | 76.166 | 74.902 | -29.034 | 105.200 | 1.264 | PK |
| 3 | | | 5720.000 | 89.766 | 88.304 | -21.034 | 110.800 | 1.462 | PK |
| 4 | | | 5725.000 | 96.582 | 95.149 | -25.618 | 122.200 | 1.433 | PK |
| 5 | | * | 5744.210 | 116.905 | 115.499 | N/A | N/A | 1.406 | PK |

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

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

| | |
|---|---|
| Site: AC2 | Time: 2020/06/26 - 13:47 |
| Limit: FCC_Part15.407_RE(3m) | Engineer: Hyde Yu |
| Probe: AC2_BBHA9120D_1-18GHz | Polarity: Vertical |
| EUT: GigaSpire BLAST u4 | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11a at Channel 5745MHz - CDD Mode | |

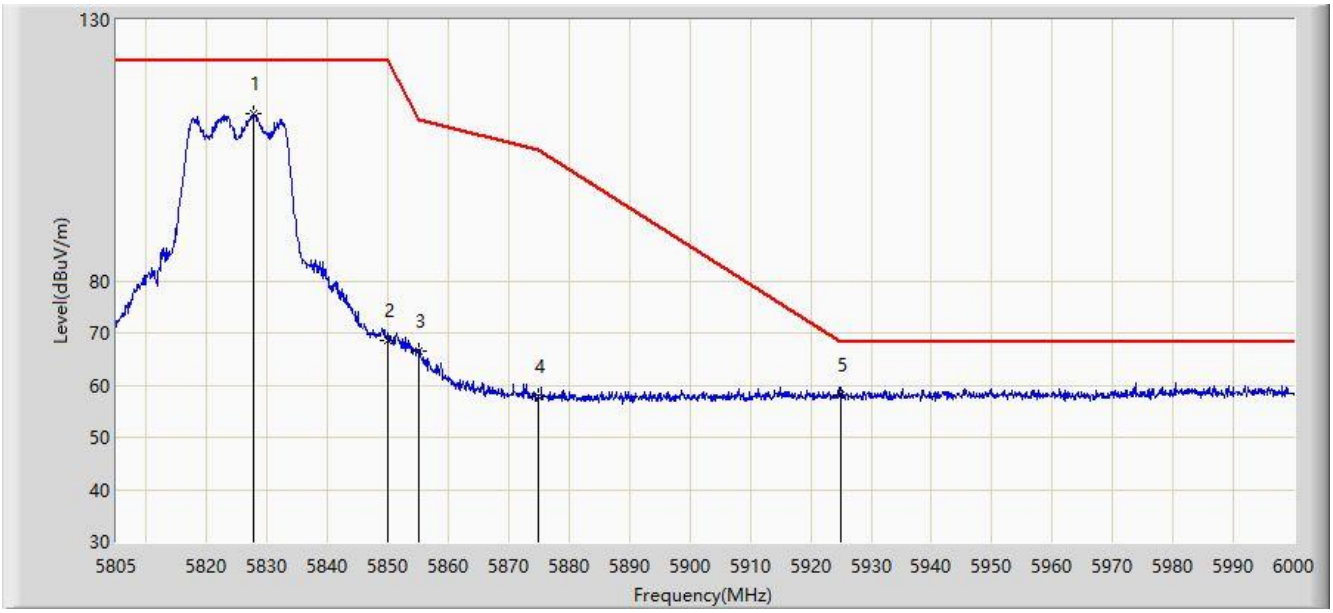



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5650.000 | 65.042 | 63.669 | -3.158 | 68.200 | 1.373 | PK |
| 2 | | | 5700.000 | 80.083 | 78.819 | -25.117 | 105.200 | 1.264 | PK |
| 3 | | | 5720.000 | 95.309 | 93.847 | -15.491 | 110.800 | 1.462 | PK |
| 4 | | | 5725.000 | 101.052 | 99.619 | -21.148 | 122.200 | 1.433 | PK |
| 5 | | * | 5747.757 | 122.721 | 121.231 | N/A | N/A | 1.490 | PK |

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

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

| | |
|---|---|
| Site: AC2 | Time: 2020/06/26 - 14:07 |
| Limit: FCC_Part15.407_RE(3m) | Engineer: Hyde Yu |
| Probe: AC2_BBHA9120D_1-18GHz | Polarity: Horizontal |
| EUT: GigaSpire BLAST u4 | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11a at Channel 5825MHz - CDD Mode | |

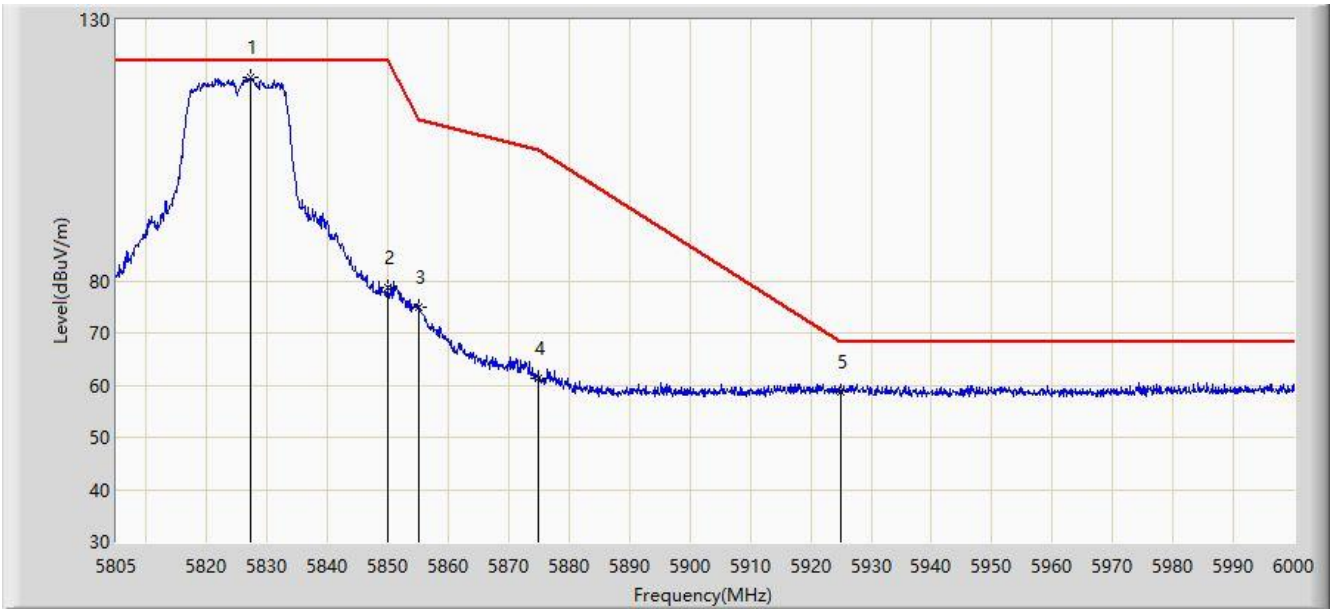



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5827.717 | 112.100 | 110.545 | N/A | N/A | 1.555 | PK |
| 2 | | | 5850.000 | 68.567 | 66.774 | -53.633 | 122.200 | 1.792 | PK |
| 3 | | | 5855.000 | 66.628 | 64.826 | -44.172 | 110.800 | 1.802 | PK |
| 4 | | | 5875.000 | 57.814 | 55.943 | -47.386 | 105.200 | 1.872 | PK |
| 5 | | * | 5925.000 | 58.224 | 56.155 | -9.976 | 68.200 | 2.069 | PK |

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

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

| | |
|---|---|
| Site: AC2 | Time: 2020/06/26 - 14:10 |
| Limit: FCC_Part15.407_RE(3m) | Engineer: Hyde Yu |
| Probe: AC2_BBHA9120D_1-18GHz | Polarity: Vertical |
| EUT: GigaSpire BLAST u4 | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11a at Channel 5825MHz - CDD Mode | |

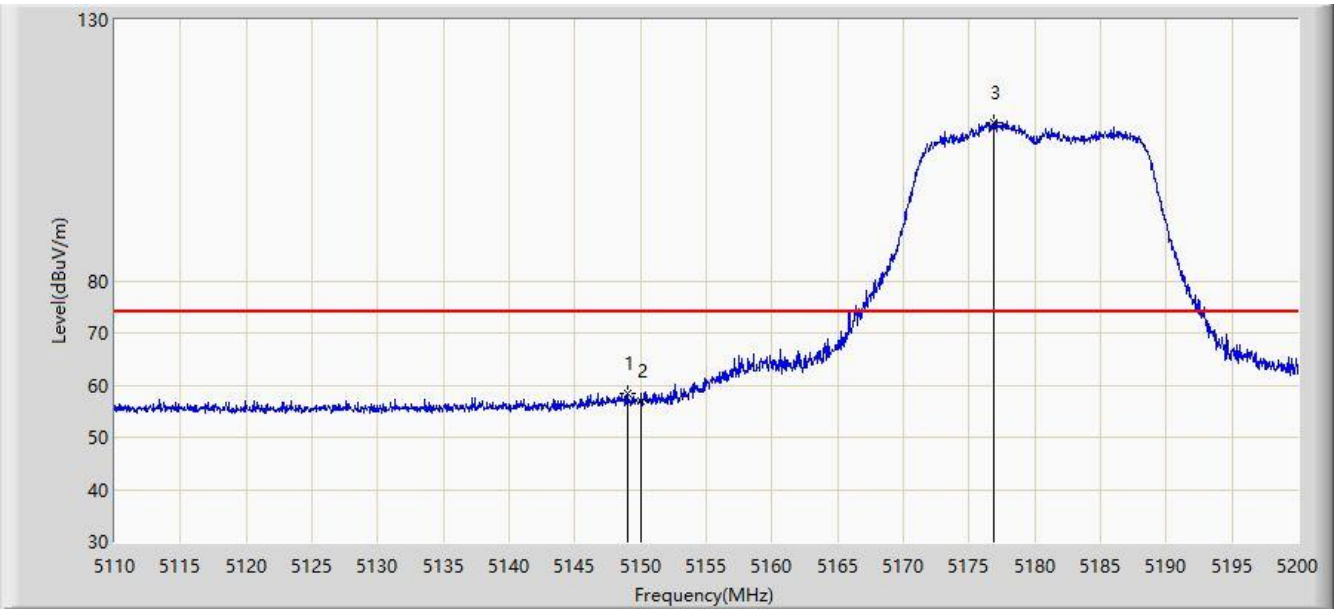



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 5827.230 | 118.981 | 117.422 | N/A | N/A | 1.559 | PK |
| 2 | | | 5850.000 | 78.752 | 76.959 | -43.448 | 122.200 | 1.792 | PK |
| 3 | | | 5855.000 | 75.061 | 73.259 | -35.739 | 110.800 | 1.802 | PK |
| 4 | | | 5875.000 | 61.176 | 59.305 | -44.024 | 105.200 | 1.872 | PK |
| 5 | | | 5925.000 | 58.599 | 56.530 | -9.601 | 68.200 | 2.069 | PK |

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

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

| | |
|---|---|
| Site: AC2 | Time: 2020/07/12 - 12:33 |
| Limit: FCC_Part15_RE(3m) | Engineer: Hyde Yu |
| Probe: AC2_BBHA9120D_1-18GHz | Polarity: Horizontal |
| EUT: GigaSpire BLAST u4 | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11n-HT20 at Channel 5180MHz - CDD Mode | |

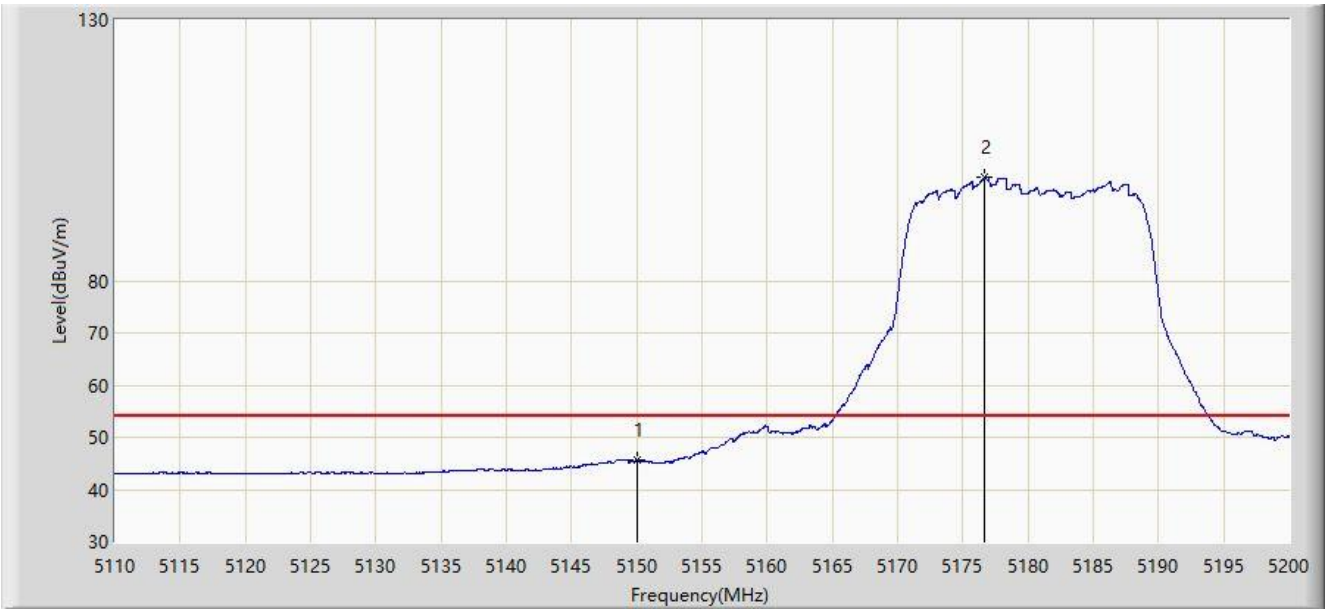



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5149.015 | 58.327 | 57.933 | -15.673 | 74.000 | 0.394 | PK |
| 2 | | | 5150.000 | 56.881 | 56.479 | -17.119 | 74.000 | 0.402 | PK |
| 3 | | * | 5176.915 | 110.322 | 109.935 | N/A | N/A | 0.387 | PK |

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

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

| | |
|---|---|
| Site: AC2 | Time: 2020/07/12 - 12:52 |
| Limit: FCC_Part15_RE(3m) | Engineer: Hyde Yu |
| Probe: AC2_BBHA9120D_1-18GHz | Polarity: Horizontal |
| EUT: GigaSpire BLAST u4 | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11n-HT20 at Channel 5180MHz - CDD Mode | |

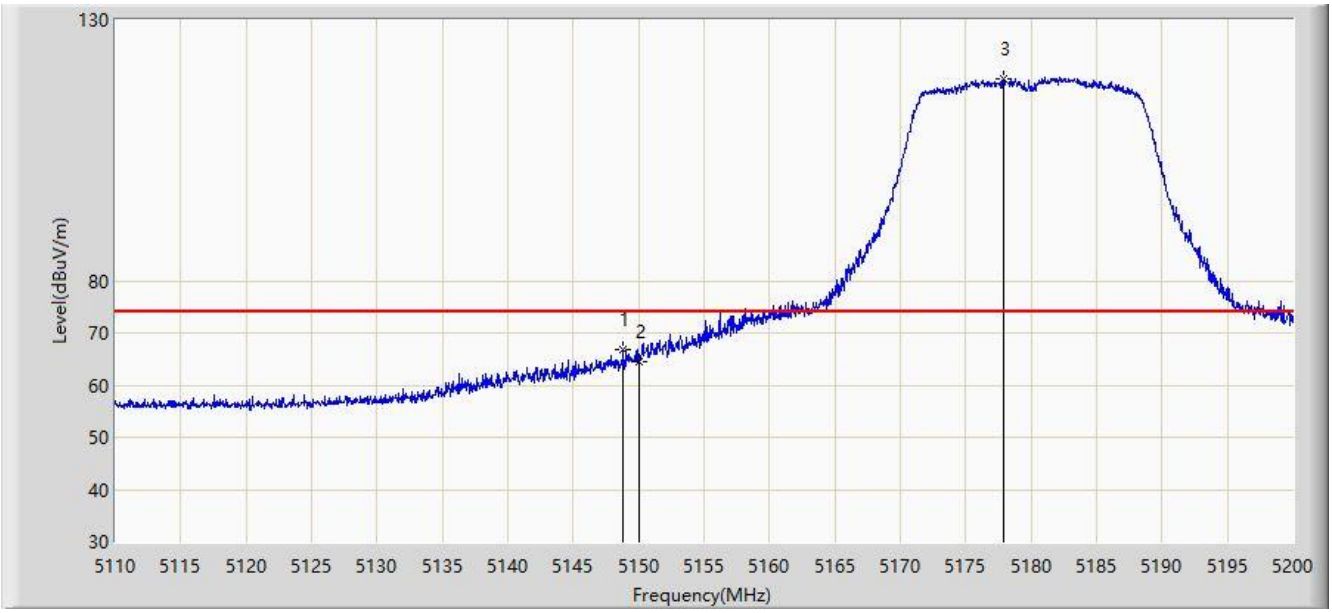



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5150.000 | 45.592 | 45.190 | -8.408 | 54.000 | 0.402 | AV |
| 2 | | * | 5176.690 | 99.774 | 99.384 | N/A | N/A | 0.389 | AV |

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

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

| | |
|---|---|
| Site: AC2 | Time: 2020/07/12 - 12:54 |
| Limit: FCC_Part15_RE(3m) | Engineer: Hyde Yu |
| Probe: AC2_BBHA9120D_1-18GHz | Polarity: Vertical |
| EUT: GigaSpire BLAST u4 | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11n-HT20 at Channel 5180MHz - CDD Mode | |

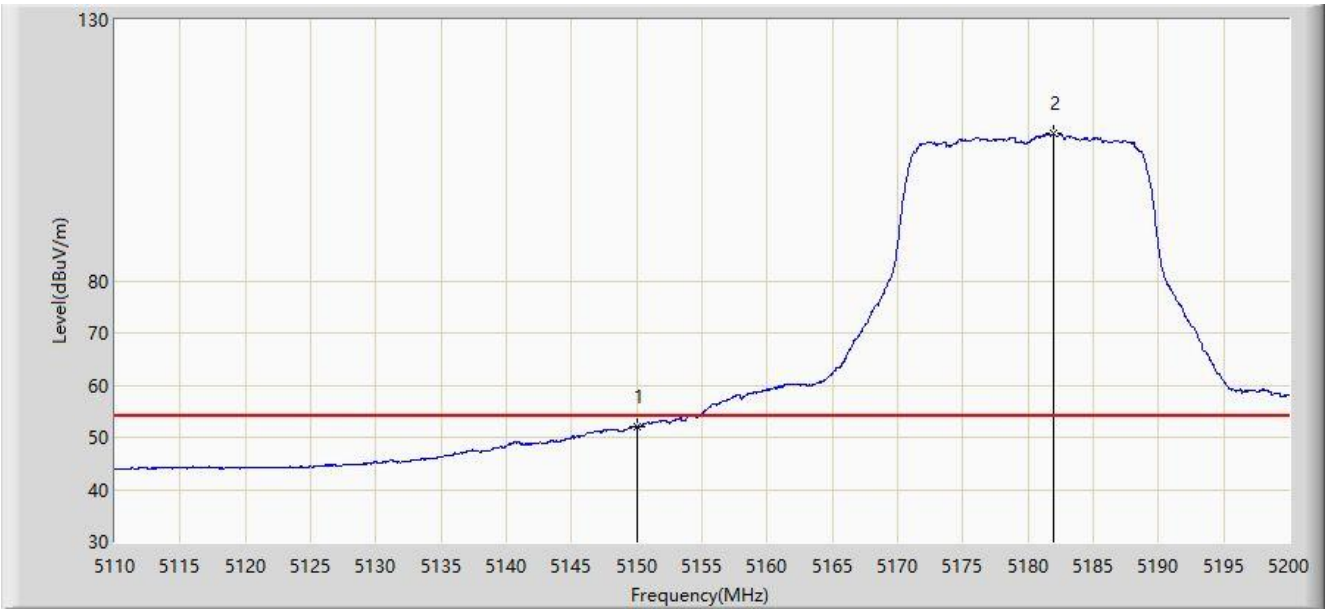



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5148.835 | 66.868 | 66.476 | -7.132 | 74.000 | 0.392 | PK |
| 2 | | | 5150.000 | 64.603 | 64.201 | -9.397 | 74.000 | 0.402 | PK |
| 3 | | * | 5177.860 | 118.779 | 118.402 | N/A | N/A | 0.376 | PK |

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

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

| | |
|---|---|
| Site: AC2 | Time: 2020/07/12 - 12:53 |
| Limit: FCC_Part15_RE(3m) | Engineer: Hyde Yu |
| Probe: AC2_BBHA9120D_1-18GHz | Polarity: Vertical |
| EUT: GigaSpire BLAST u4 | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11n-HT20 at Channel 5180MHz - CDD Mode | |

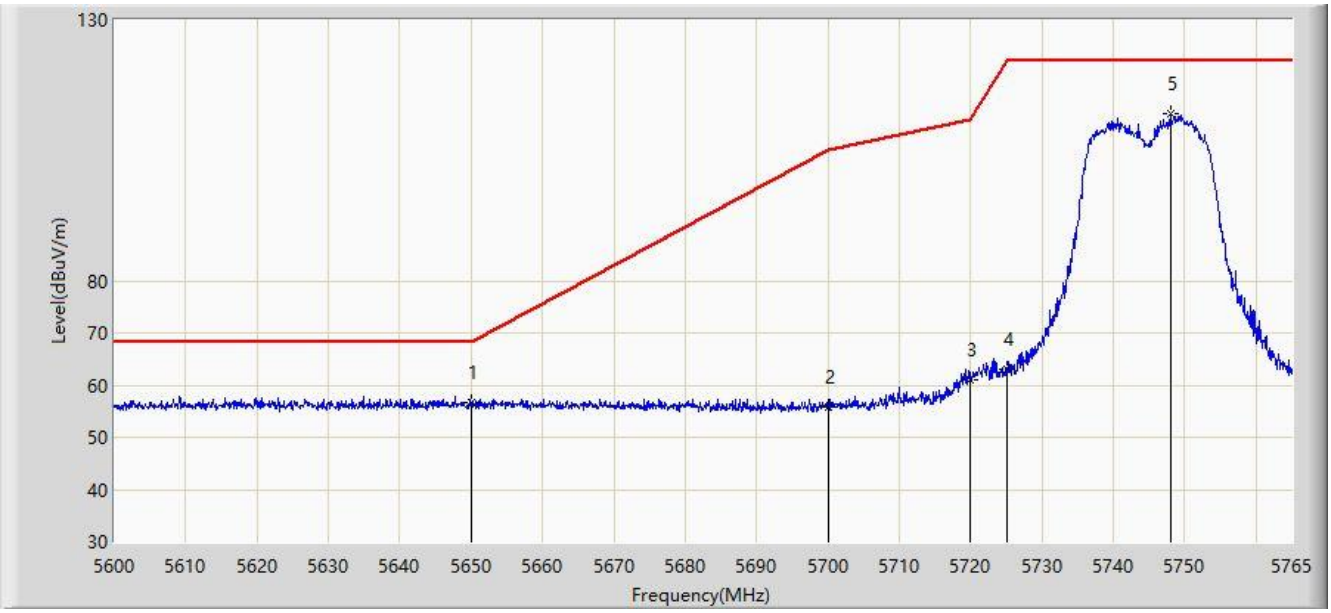



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5150.000 | 52.072 | 51.670 | -1.928 | 54.000 | 0.402 | AV |
| 2 | | * | 5181.955 | 108.123 | 107.793 | N/A | N/A | 0.330 | AV |

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

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

| | |
|---|---|
| Site: AC2 | Time: 2020/07/12 - 13:15 |
| Limit: FCC_Part15.407_RE(3m) | Engineer: Hyde Yu |
| Probe: AC2_BBHA9120D_1-18GHz | Polarity: Horizontal |
| EUT: GigaSpire BLAST u4 | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11n-HT20 at Channel 5745MHz - CDD Mode | |

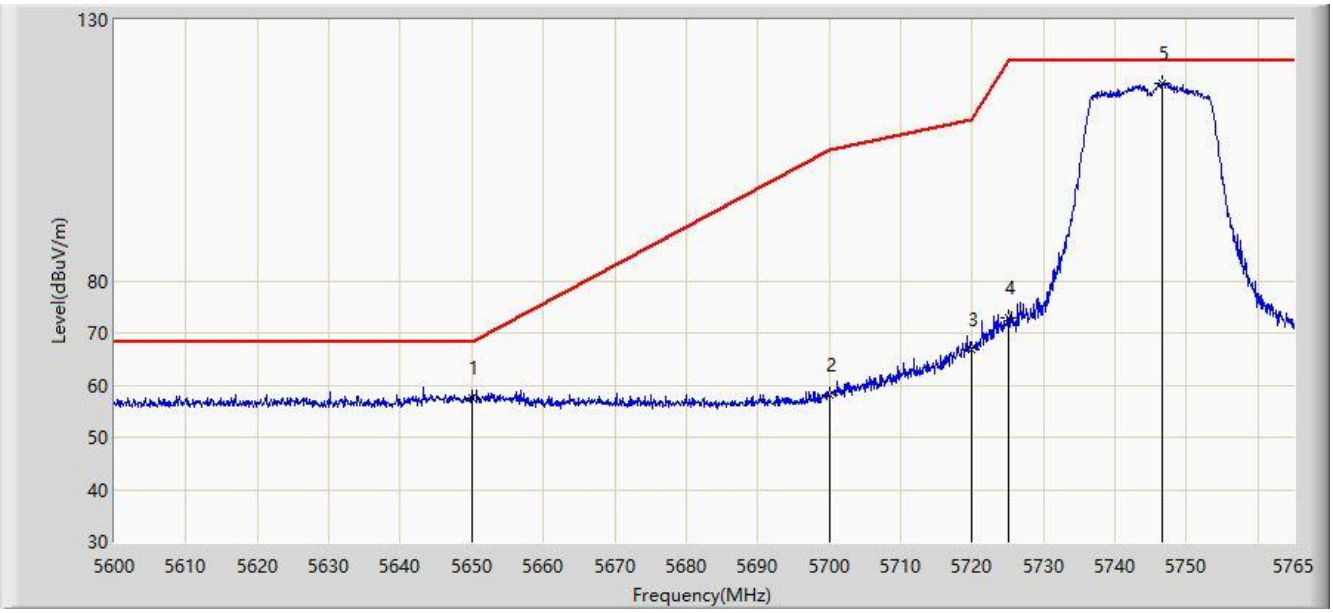



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5650.000 | 56.570 | 55.197 | -11.630 | 68.200 | 1.373 | PK |
| 2 | | | 5700.000 | 55.864 | 54.600 | -49.336 | 105.200 | 1.264 | PK |
| 3 | | | 5720.000 | 61.036 | 59.574 | -49.764 | 110.800 | 1.462 | PK |
| 4 | | | 5725.000 | 63.032 | 61.599 | -59.168 | 122.200 | 1.433 | PK |
| 5 | | * | 5748.005 | 112.145 | 110.650 | N/A | N/A | 1.495 | PK |

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

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

| | |
|---|---|
| Site: AC2 | Time: 2020/07/12 - 13:17 |
| Limit: FCC_Part15.407_RE(3m) | Engineer: Hyde Yu |
| Probe: AC2_BBHA9120D_1-18GHz | Polarity: Vertical |
| EUT: GigaSpire BLAST u4 | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11n-HT20 at Channel 5745MHz - CDD Mode | |

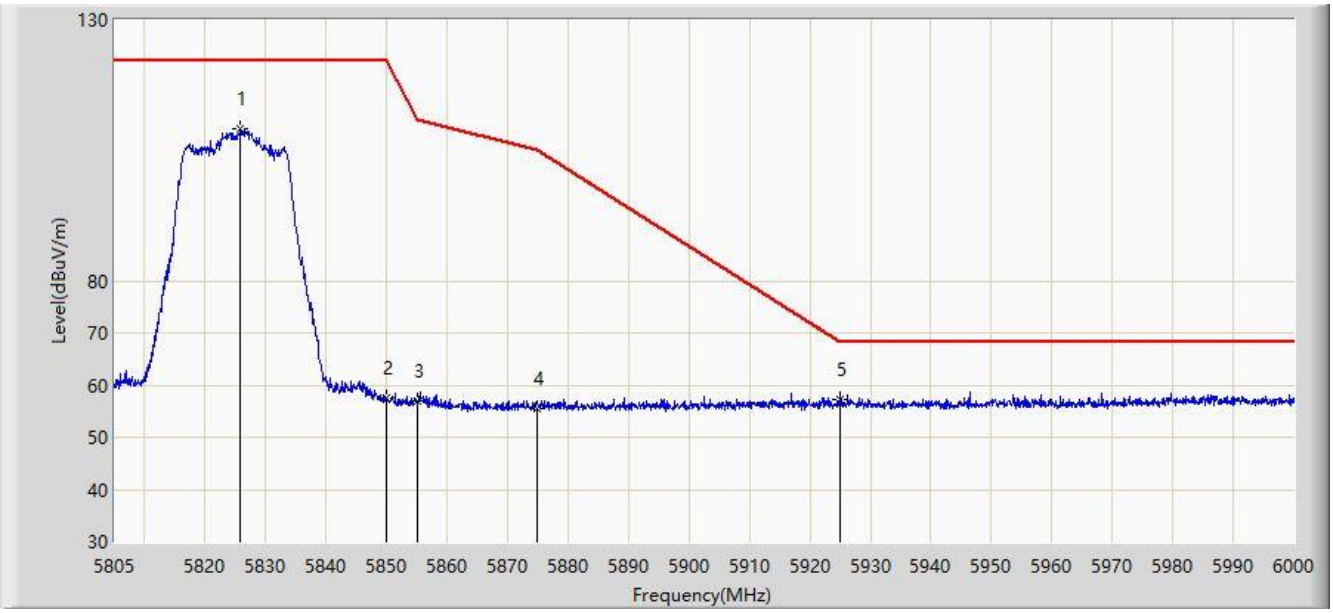



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5650.000 | 57.572 | 56.199 | -10.628 | 68.200 | 1.373 | PK |
| 2 | | | 5700.000 | 58.087 | 56.823 | -47.113 | 105.200 | 1.264 | PK |
| 3 | | | 5720.000 | 66.936 | 65.474 | -43.864 | 110.800 | 1.462 | PK |
| 4 | | | 5725.000 | 72.907 | 71.474 | -49.293 | 122.200 | 1.433 | PK |
| 5 | | * | 5746.685 | 117.769 | 116.305 | N/A | N/A | 1.464 | PK |

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

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

| | |
|---|---|
| Site: AC2 | Time: 2020/07/12 - 13:19 |
| Limit: FCC_Part15.407_RE(3m) | Engineer: Hyde Yu |
| Probe: AC2_BBHA9120D_1-18GHz | Polarity: Horizontal |
| EUT: GigaSpire BLAST u4 | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11n-HT20 at Channel 5825MHz - CDD Mode | |

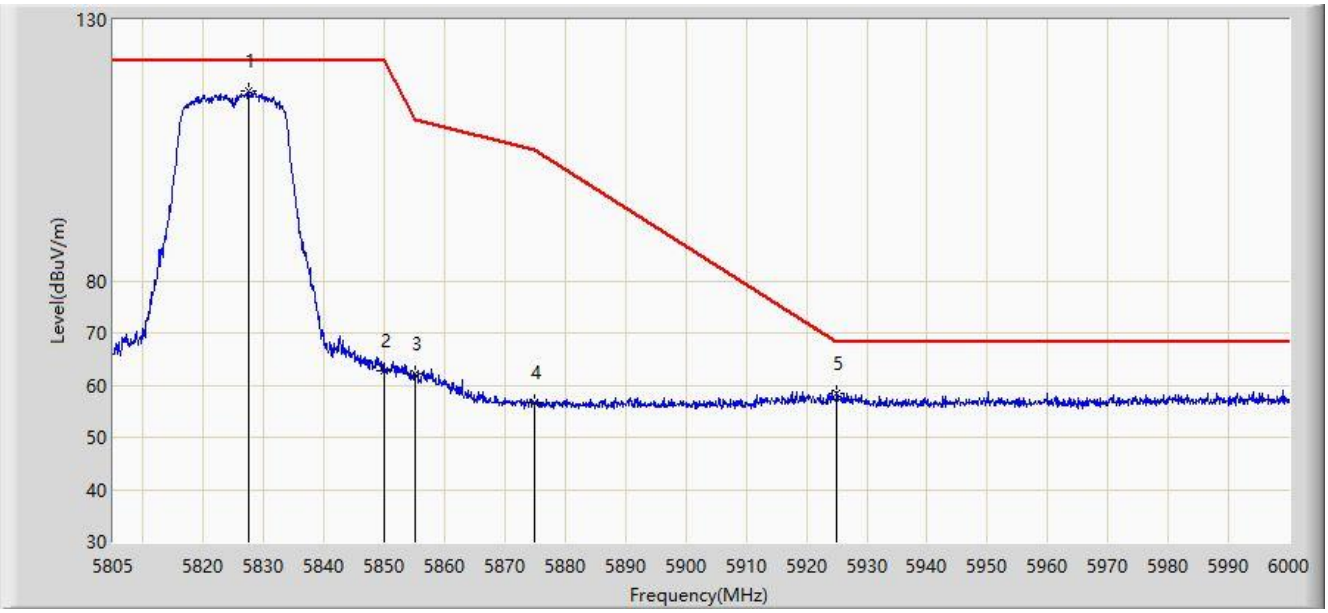



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5825.768 | 109.186 | 107.614 | N/A | N/A | 1.572 | PK |
| 2 | | | 5850.000 | 57.492 | 55.699 | -64.708 | 122.200 | 1.792 | PK |
| 3 | | | 5855.000 | 57.006 | 55.204 | -53.794 | 110.800 | 1.802 | PK |
| 4 | | | 5875.000 | 55.383 | 53.512 | -49.817 | 105.200 | 1.872 | PK |
| 5 | | * | 5925.000 | 57.295 | 55.226 | -10.905 | 68.200 | 2.069 | PK |

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

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

| | |
|---|---|
| Site: AC2 | Time: 2020/07/12 - 13:21 |
| Limit: FCC_Part15.407_RE(3m) | Engineer: Hyde Yu |
| Probe: AC2_BBHA9120D_1-18GHz | Polarity: Vertical |
| EUT: GigaSpire BLAST u4 | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11n-HT20 at Channel 5825MHz - CDD Mode | |

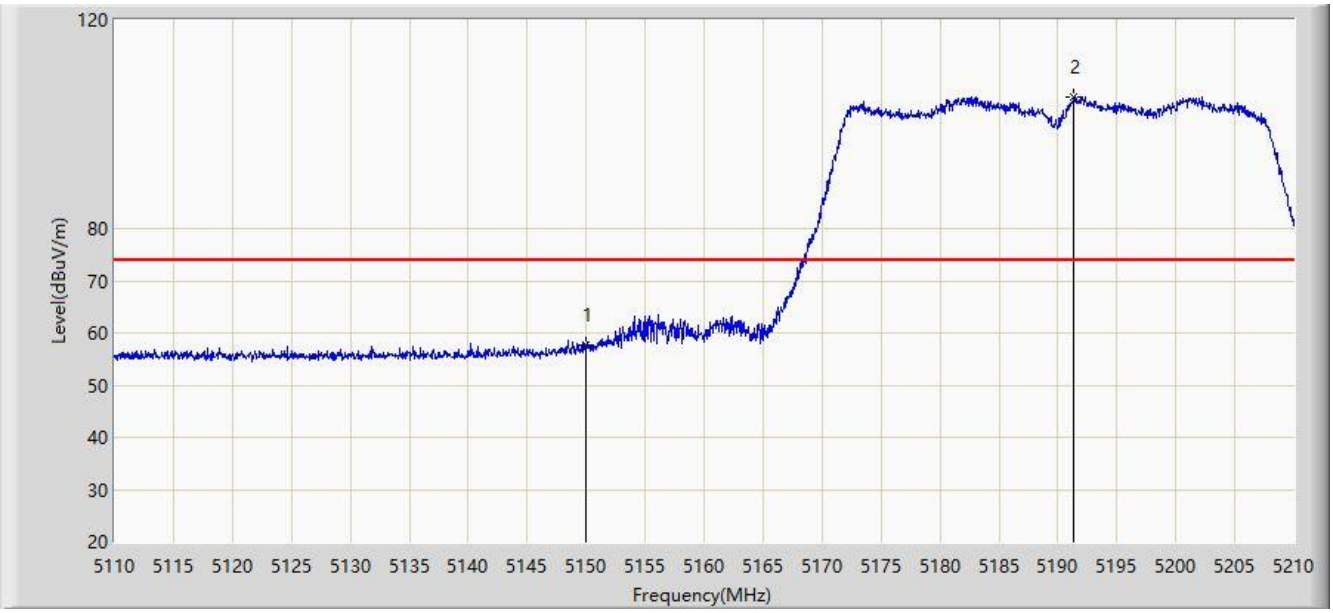



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 5827.425 | 116.328 | 114.771 | N/A | N/A | 1.557 | PK |
| 2 | | | 5850.000 | 62.819 | 61.026 | -59.381 | 122.200 | 1.792 | PK |
| 3 | | | 5855.000 | 62.101 | 60.299 | -48.699 | 110.800 | 1.802 | PK |
| 4 | | | 5875.000 | 56.596 | 54.725 | -48.604 | 105.200 | 1.872 | PK |
| 5 | | | 5925.000 | 58.367 | 56.298 | -9.833 | 68.200 | 2.069 | PK |

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

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

| | |
|---|---|
| Site: AC2 | Time: 2020/07/12 - 13:46 |
| Limit: FCC_Part15_RE(3m) | Engineer: Hyde Yu |
| Probe: AC2_BBHA9120D_1-18GHz | Polarity: Horizontal |
| EUT: GigaSpire BLAST u4 | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11n-HT40 at Channel 5190MHz - CDD Mode | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5150.000 | 57.682 | 57.280 | -16.318 | 74.000 | 0.402 | PK |
| 2 | | * | 5191.350 | 105.278 | 104.989 | N/A | N/A | 0.289 | PK |

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

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

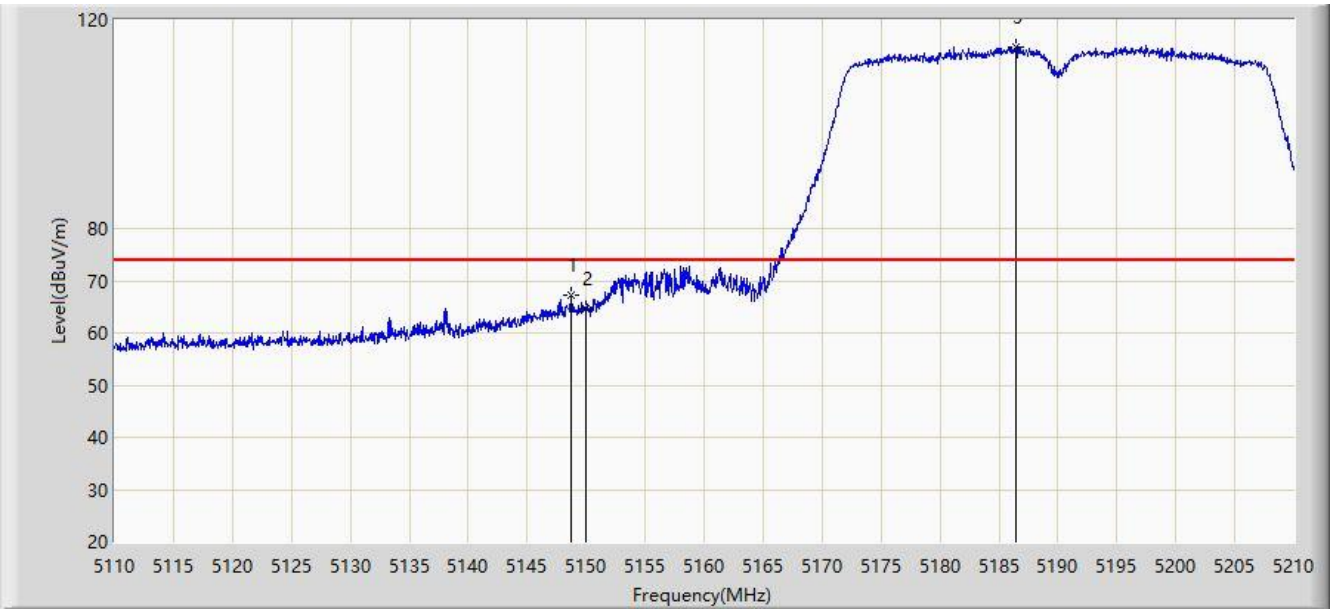
| | |
|---|---|
| Site: AC2 | Time: 2020/07/12 - 13:45 |
| Limit: FCC_Part15_RE(3m) | Engineer: Hyde Yu |
| Probe: AC2_BBHA9120D_1-18GHz | Polarity: Horizontal |
| EUT: GigaSpire BLAST u4 | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11n-HT40 at Channel 5190MHz - CDD Mode | |


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5150.000 | 45.639 | 45.237 | -8.361 | 54.000 | 0.402 | AV |
| 2 | | * | 5181.300 | 94.383 | 94.045 | N/A | N/A | 0.337 | AV |

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

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

| | |
|---|---|
| Site: AC2 | Time: 2020/07/12 - 13:49 |
| Limit: FCC_Part15_RE(3m) | Engineer: Hyde Yu |
| Probe: AC2_BBHA9120D_1-18GHz | Polarity: Vertical |
| EUT: GigaSpire BLAST u4 | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11n-HT40 at Channel 5190MHz - CDD Mode | |

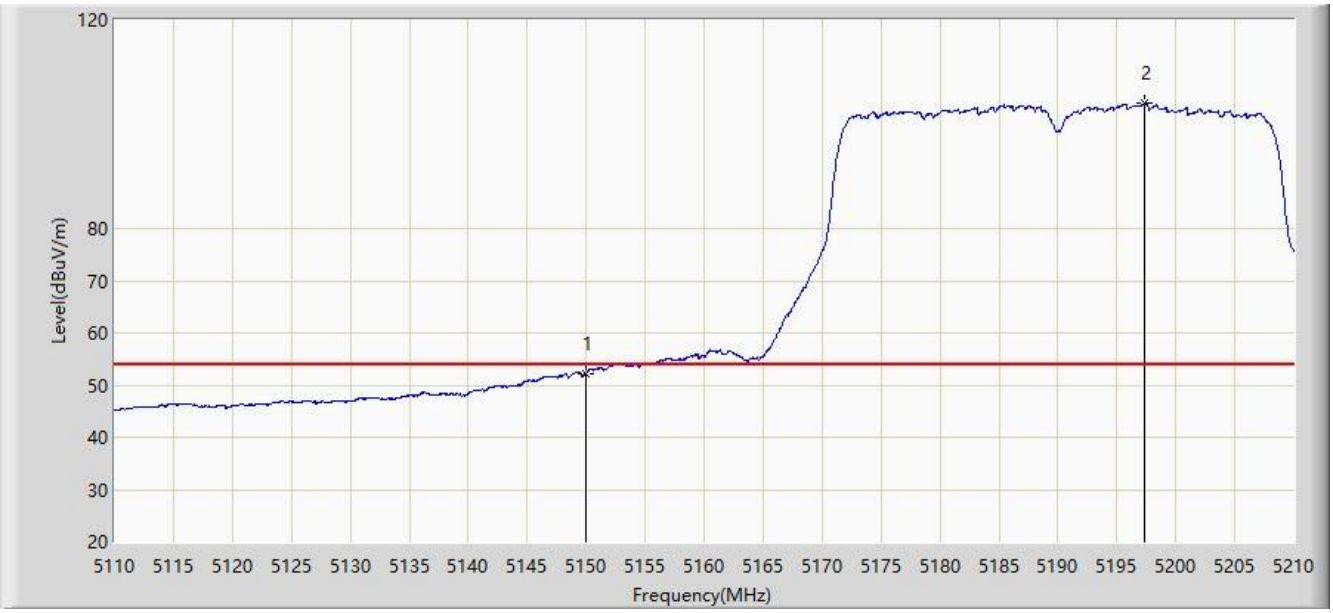



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5148.750 | 67.213 | 66.822 | -6.787 | 74.000 | 0.391 | PK |
| 2 | | | 5150.000 | 64.576 | 64.174 | -9.424 | 74.000 | 0.402 | PK |
| 3 | | * | 5186.500 | 114.883 | 114.575 | N/A | N/A | 0.307 | PK |

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

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

| | |
|---|---|
| Site: AC2 | Time: 2020/07/12 - 13:43 |
| Limit: FCC_Part15_RE(3m) | Engineer: Hyde Yu |
| Probe: AC2_BBHA9120D_1-18GHz | Polarity: Vertical |
| EUT: GigaSpire BLAST u4 | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11n-HT40 at Channel 5190MHz - CDD Mode | |

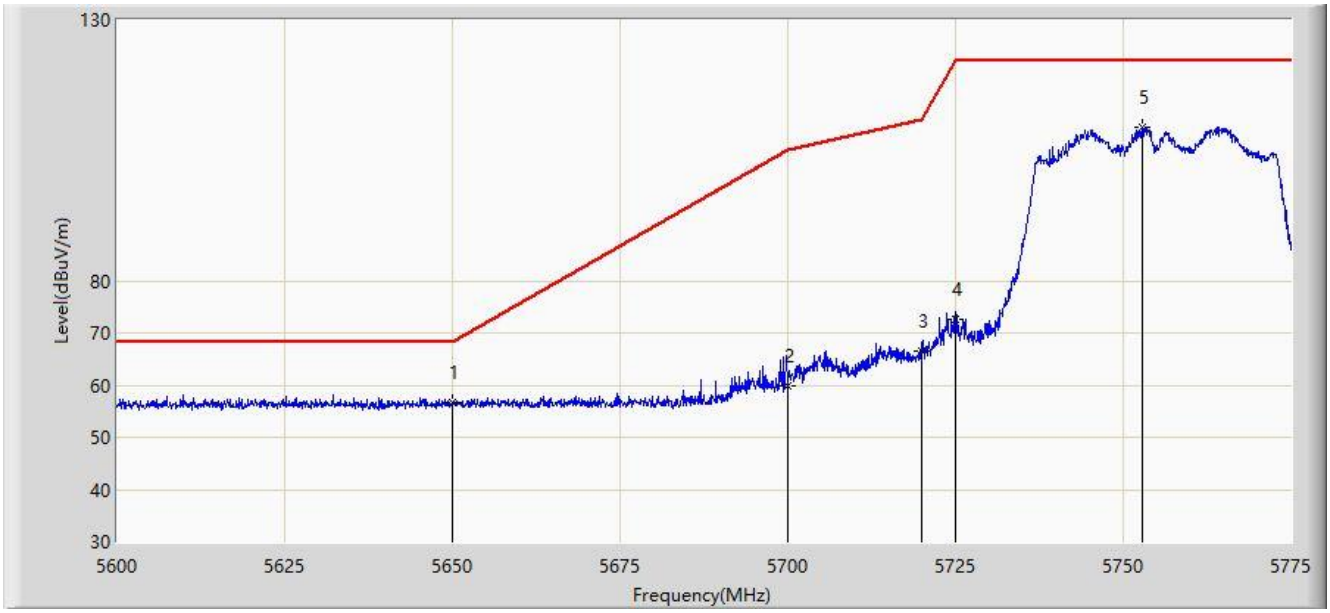



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5150.000 | 52.250 | 51.848 | -1.750 | 54.000 | 0.402 | AV |
| 2 | | * | 5197.400 | 104.010 | 103.746 | N/A | N/A | 0.264 | AV |

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

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

| | |
|---|---|
| Site: AC2 | Time: 2020/07/12 - 14:21 |
| Limit: FCC_Part15.407_RE(3m) | Engineer: Hyde Yu |
| Probe: AC2_BBHA9120D_1-18GHz | Polarity: Horizontal |
| EUT: GigaSpire BLAST u4 | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11n-HT40 at Channel 5755MHz - CDD Mode | |

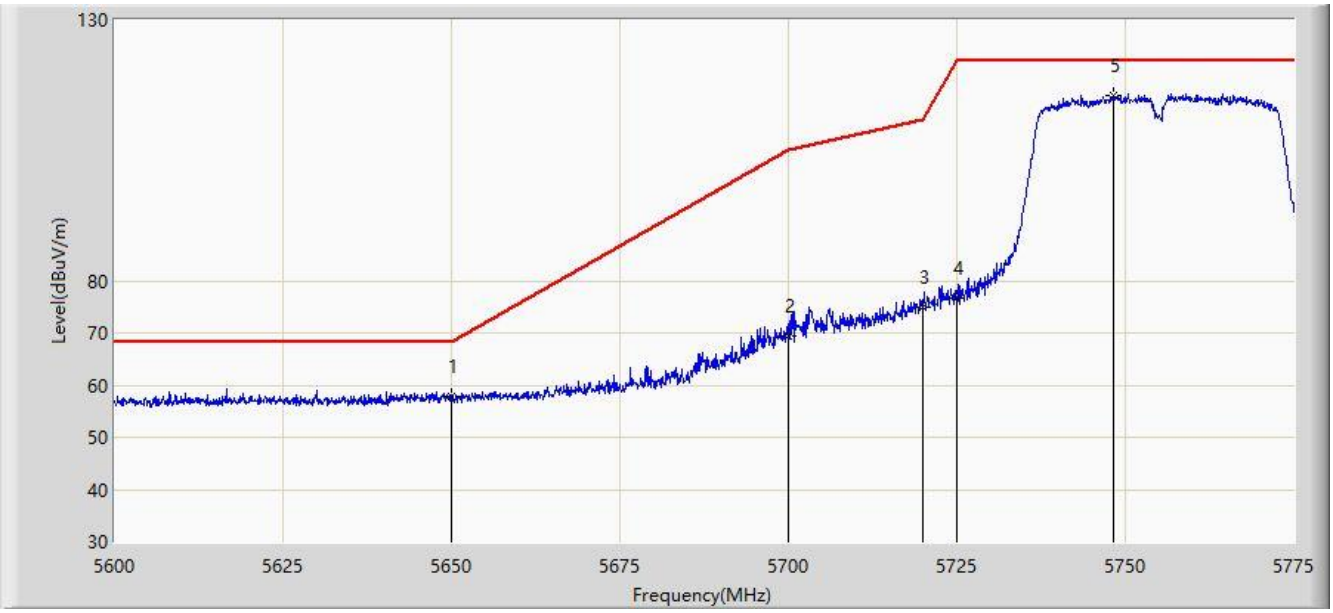



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 5650.000 | 56.627 | 55.254 | -11.573 | 68.200 | 1.373 | PK |
| 2 | | | 5700.000 | 59.851 | 58.587 | -45.349 | 105.200 | 1.264 | PK |
| 3 | | | 5720.000 | 66.663 | 65.201 | -44.137 | 110.800 | 1.462 | PK |
| 4 | | | 5725.000 | 72.636 | 71.203 | -49.564 | 122.200 | 1.433 | PK |
| 5 | | | 5752.950 | 109.476 | 107.864 | N/A | N/A | 1.612 | PK |

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

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

| | |
|---|---|
| Site: AC2 | Time: 2020/07/12 - 14:23 |
| Limit: FCC_Part15.407_RE(3m) | Engineer: Hyde Yu |
| Probe: AC2_BBHA9120D_1-18GHz | Polarity: Vertical |
| EUT: GigaSpire BLAST u4 | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11n-HT40 at Channel 5755MHz - CDD Mode | |

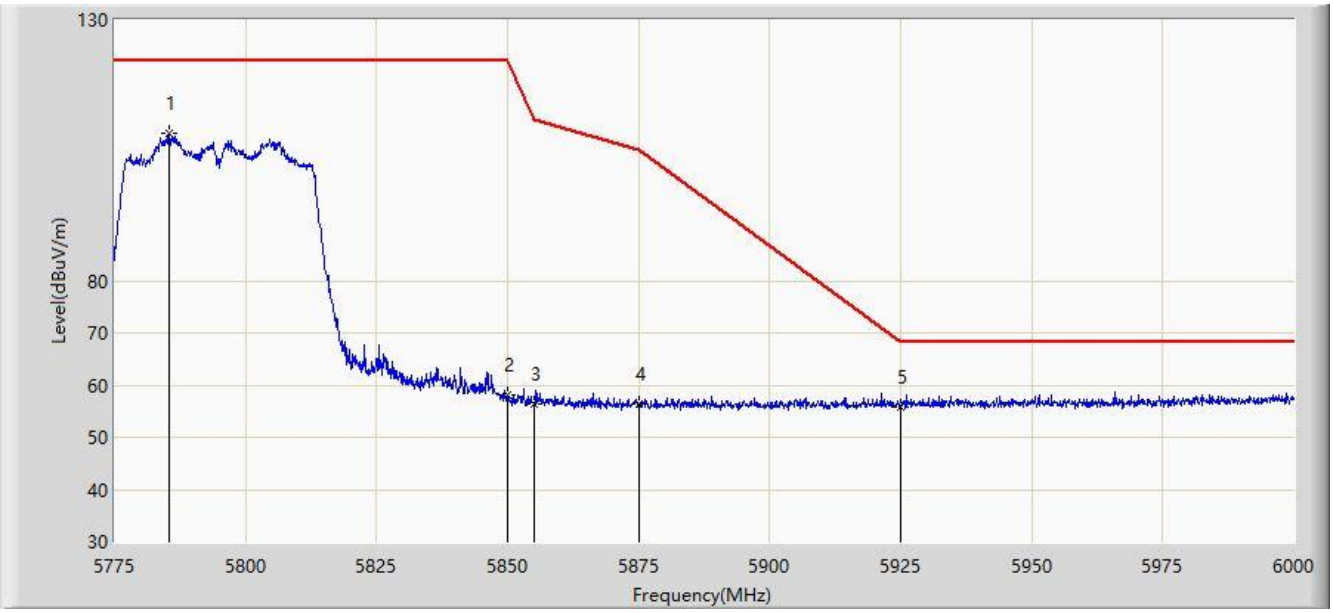



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5650.000 | 57.790 | 56.417 | -10.410 | 68.200 | 1.373 | PK |
| 2 | | | 5700.000 | 69.335 | 68.071 | -35.865 | 105.200 | 1.264 | PK |
| 3 | | | 5720.000 | 74.967 | 73.505 | -35.833 | 110.800 | 1.462 | PK |
| 4 | | | 5725.000 | 76.559 | 75.126 | -45.641 | 122.200 | 1.433 | PK |
| 5 | | * | 5748.312 | 115.602 | 114.099 | N/A | N/A | 1.503 | PK |

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

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

| | |
|---|---|
| Site: AC2 | Time: 2020/07/12 - 14:27 |
| Limit: FCC_Part15.407_RE(3m) | Engineer: Hyde Yu |
| Probe: AC2_BBHA9120D_1-18GHz | Polarity: Horizontal |
| EUT: GigaSpire BLAST u4 | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11n-HT40 at Channel 5795MHz - CDD Mode | |

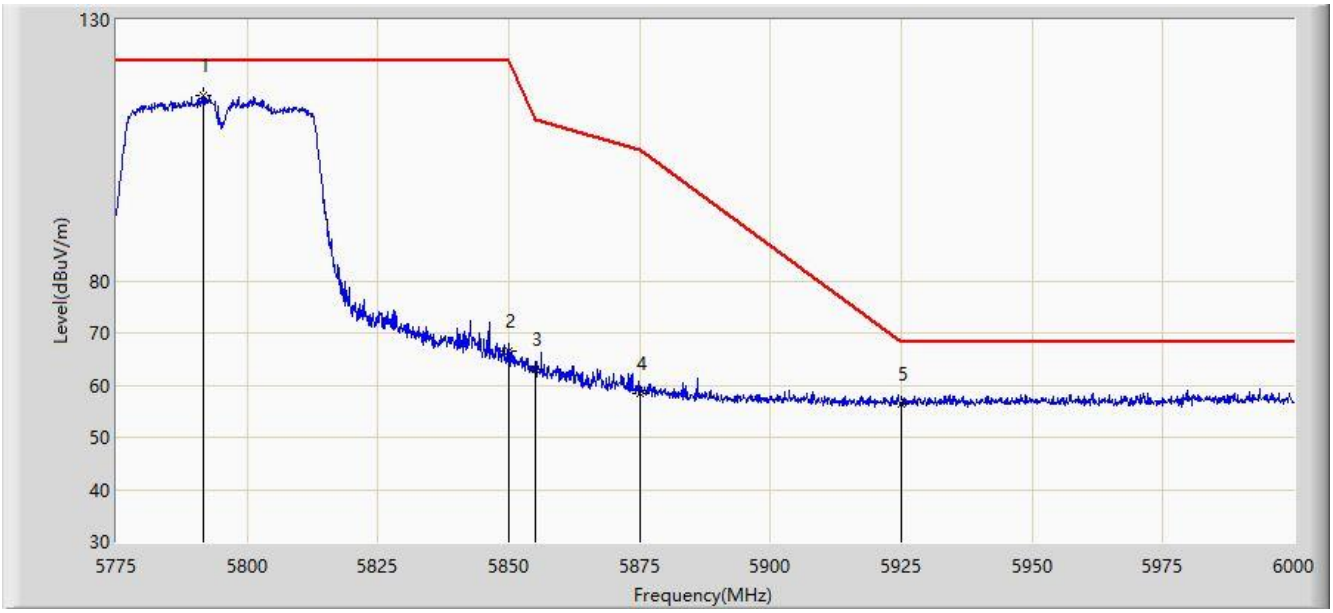



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5785.350 | 108.401 | 106.698 | N/A | N/A | 1.703 | PK |
| 2 | | | 5850.000 | 57.974 | 56.181 | -64.226 | 122.200 | 1.792 | PK |
| 3 | | | 5855.000 | 56.487 | 54.685 | -54.313 | 110.800 | 1.802 | PK |
| 4 | | | 5875.000 | 56.480 | 54.609 | -48.720 | 105.200 | 1.872 | PK |
| 5 | | * | 5925.000 | 55.857 | 53.788 | -12.343 | 68.200 | 2.069 | PK |

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

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

| | |
|---|---|
| Site: AC2 | Time: 2020/07/12 - 14:28 |
| Limit: FCC_Part15.407_RE(3m) | Engineer: Hyde Yu |
| Probe: AC2_BBHA9120D_1-18GHz | Polarity: Vertical |
| EUT: GigaSpire BLAST u4 | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11n-HT40 at Channel 5795MHz - CDD Mode | |

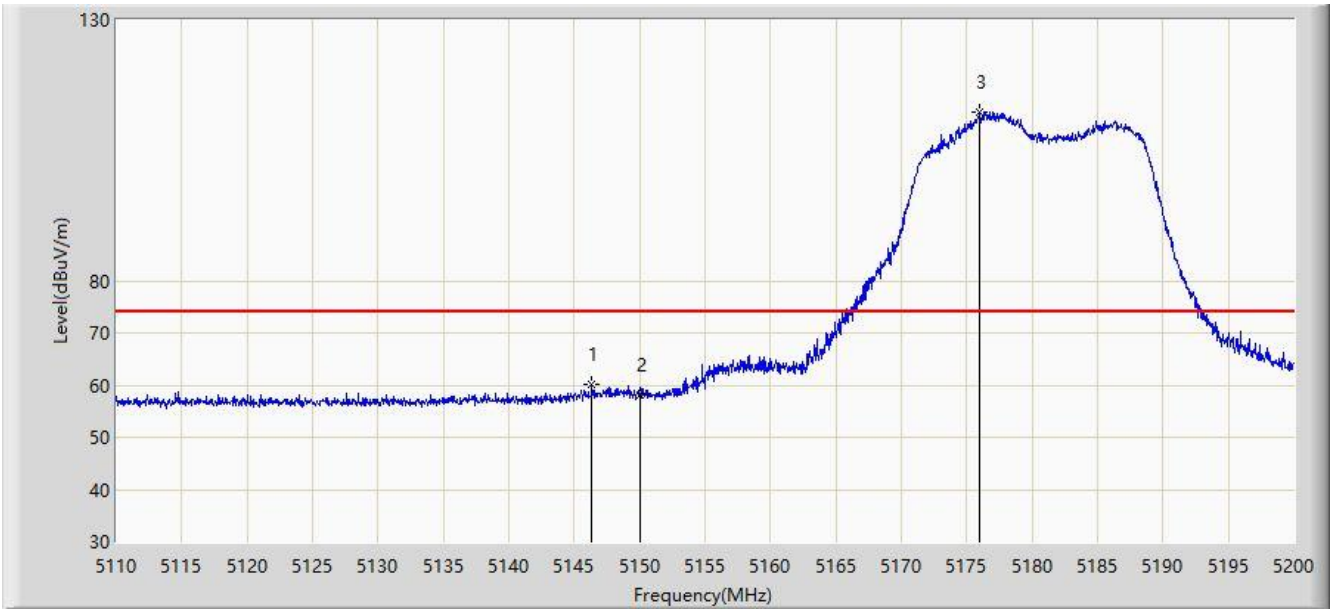



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 5791.538 | 115.582 | 113.936 | N/A | N/A | 1.646 | PK |
| 2 | | | 5850.000 | 66.557 | 64.764 | -55.643 | 122.200 | 1.792 | PK |
| 3 | | | 5855.000 | 63.087 | 61.285 | -47.713 | 110.800 | 1.802 | PK |
| 4 | | | 5875.000 | 58.419 | 56.548 | -46.781 | 105.200 | 1.872 | PK |
| 5 | | | 5925.000 | 56.466 | 54.397 | -11.734 | 68.200 | 2.069 | PK |

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

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

| | |
|---|---|
| Site: AC2 | Time: 2020/06/26 - 14:32 |
| Limit: FCC_Part15_RE(3m) | Engineer: Hyde Yu |
| Probe: AC2_BBHA9120D_1-18GHz | Polarity: Horizontal |
| EUT: GigaSpire BLAST u4 | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11ac-VHT20 at Channel 5180MHz - CDD Mode | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5146.360 | 60.114 | 59.743 | -13.886 | 74.000 | 0.371 | PK |
| 2 | | | 5150.000 | 58.209 | 57.807 | -15.791 | 74.000 | 0.402 | PK |
| 3 | | * | 5176.015 | 112.196 | 111.798 | N/A | N/A | 0.398 | PK |

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

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

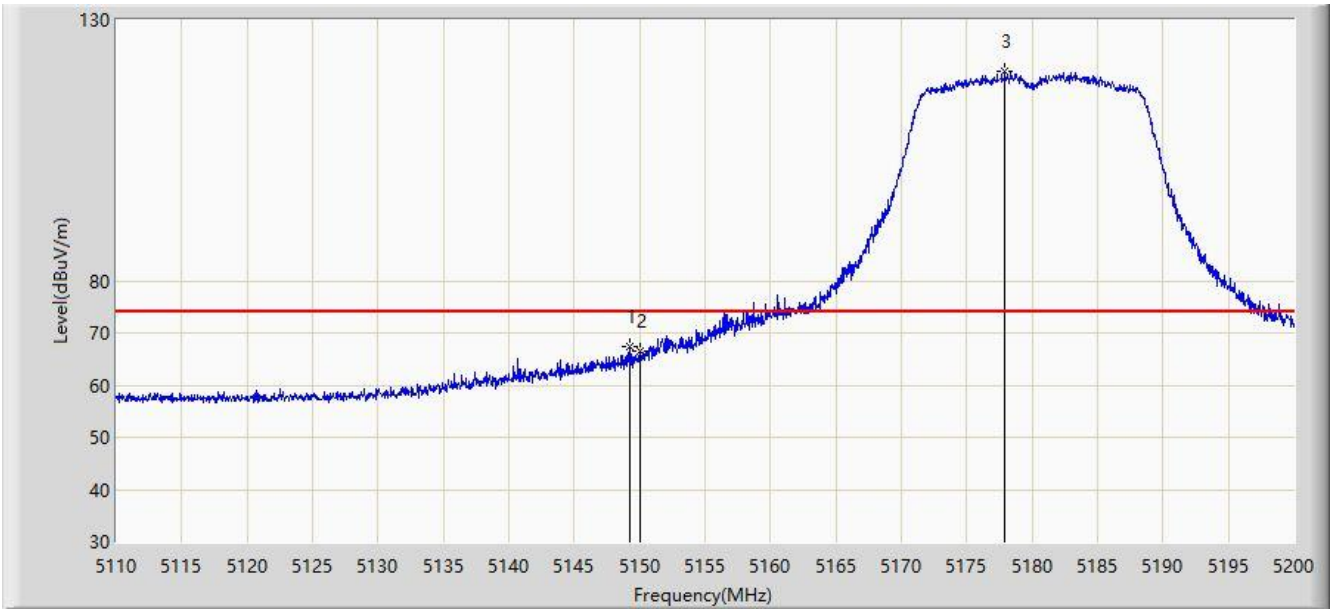
| | |
|---|---|
| Site: AC2 | Time: 2020/06/26 - 14:33 |
| Limit: FCC_Part15_RE(3m) | Engineer: Hyde Yu |
| Probe: AC2_BBHA9120D_1-18GHz | Polarity: Horizontal |
| EUT: GigaSpire BLAST u4 | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11ac-VHT20 at Channel 5180MHz - CDD Mode | |


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5150.000 | 46.118 | 45.716 | -7.882 | 54.000 | 0.402 | AV |
| 2 | | * | 5175.790 | 100.983 | 100.583 | N/A | N/A | 0.401 | AV |

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

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

| | |
|---|---|
| Site: AC2 | Time: 2020/06/26 - 14:31 |
| Limit: FCC_Part15_RE(3m) | Engineer: Hyde Yu |
| Probe: AC2_BBHA9120D_1-18GHz | Polarity: Vertical |
| EUT: GigaSpire BLAST u4 | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11ac-VHT20 at Channel 5180MHz - CDD Mode | |

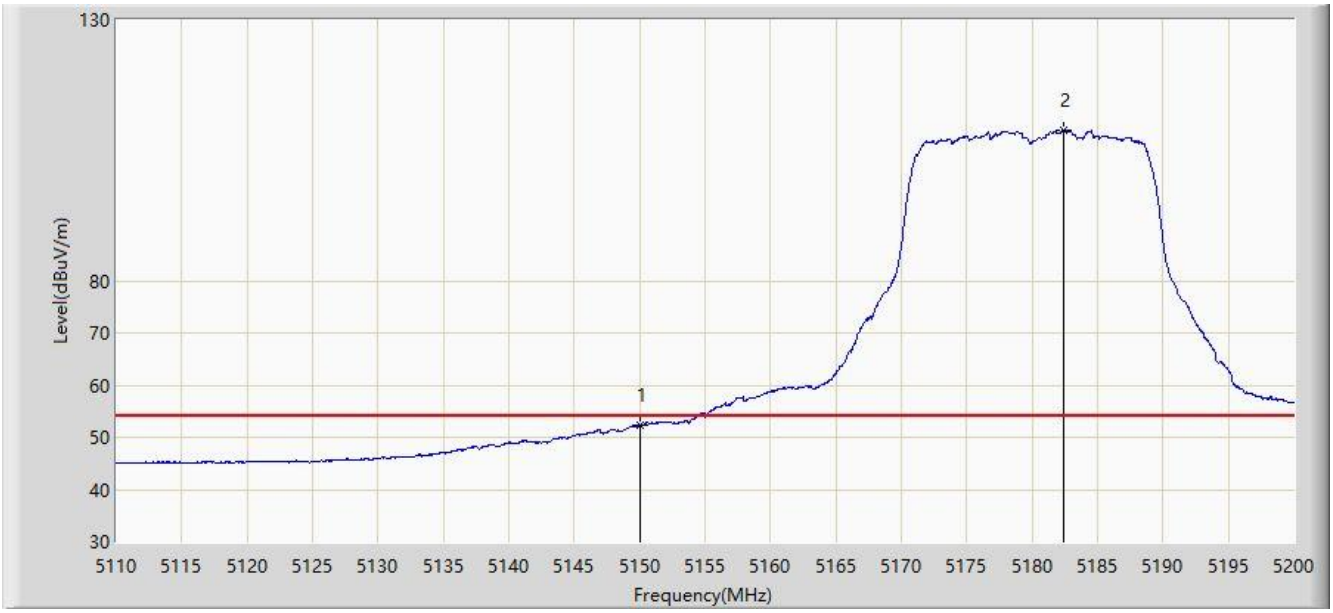



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5149.285 | 67.524 | 67.128 | -6.476 | 74.000 | 0.396 | PK |
| 2 | | | 5150.000 | 66.493 | 66.091 | -7.507 | 74.000 | 0.402 | PK |
| 3 | | * | 5177.905 | 120.175 | 119.799 | N/A | N/A | 0.376 | PK |

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

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

| | |
|---|---|
| Site: AC2 | Time: 2020/06/26 - 14:27 |
| Limit: FCC_Part15_RE(3m) | Engineer: Hyde Yu |
| Probe: AC2_BBHA9120D_1-18GHz | Polarity: Vertical |
| EUT: GigaSpire BLAST u4 | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11ac-VHT20 at Channel 5180MHz - CDD Mode | |

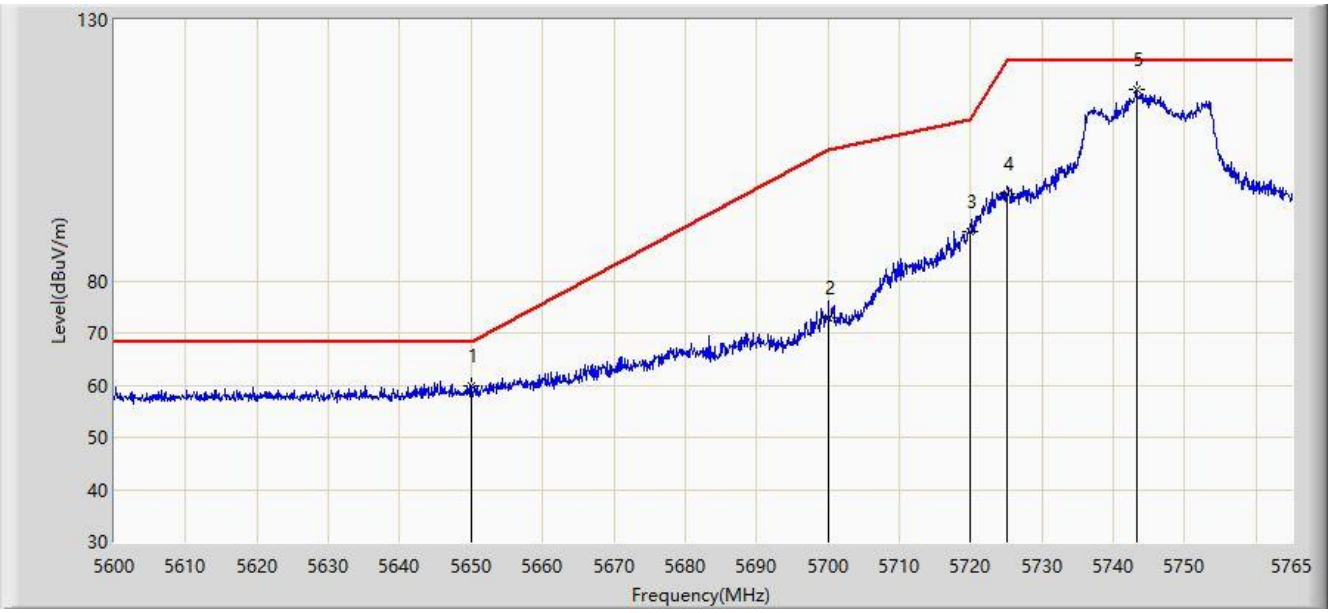



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5150.000 | 52.449 | 52.047 | -1.551 | 54.000 | 0.402 | AV |
| 2 | | * | 5182.360 | 108.742 | 108.415 | N/A | N/A | 0.327 | AV |

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

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

| | |
|---|---|
| Site: AC2 | Time: 2020/06/26 - 15:08 |
| Limit: FCC_Part15.407_RE(3m) | Engineer: Hyde Yu |
| Probe: AC2_BBHA9120D_1-18GHz | Polarity: Horizontal |
| EUT: GigaSpire BLAST u4 | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11ac-VHT20 at Channel 5745MHz - CDD Mode | |

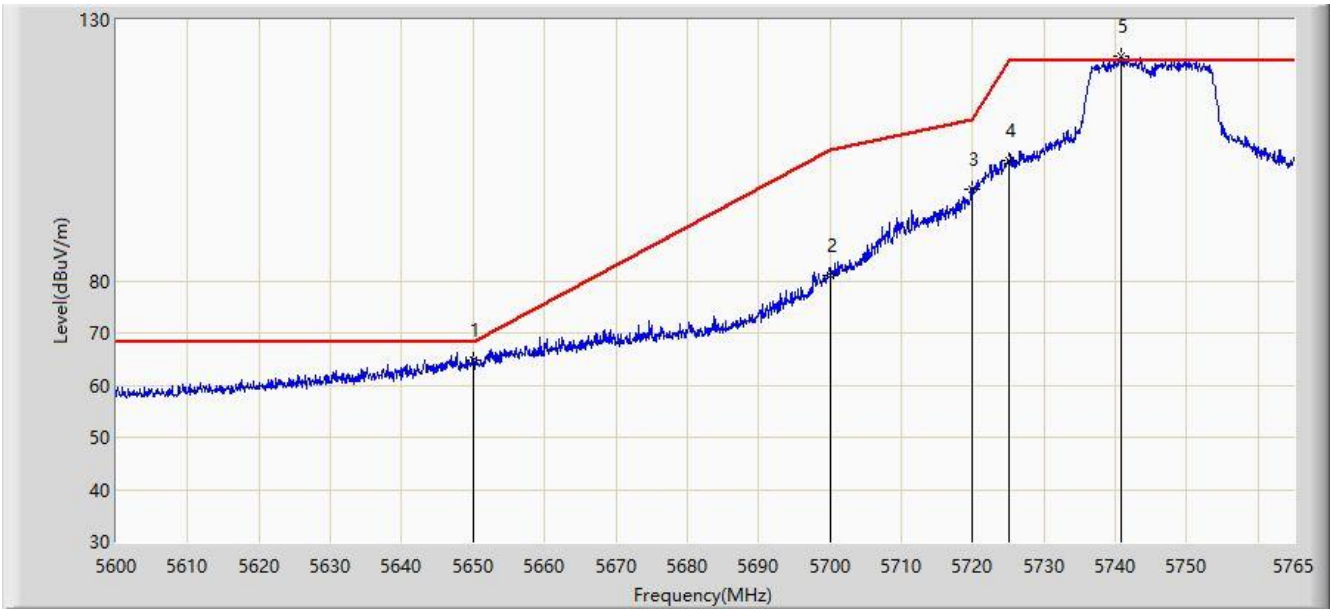



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5650.000 | 59.720 | 58.347 | -8.480 | 68.200 | 1.373 | PK |
| 2 | | | 5700.000 | 72.959 | 71.695 | -32.241 | 105.200 | 1.264 | PK |
| 3 | | | 5720.000 | 89.382 | 87.920 | -21.418 | 110.800 | 1.462 | PK |
| 4 | | | 5725.000 | 96.729 | 95.296 | -25.471 | 122.200 | 1.433 | PK |
| 5 | | * | 5743.303 | 116.599 | 115.214 | N/A | N/A | 1.386 | PK |

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

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

| | |
|---|---|
| Site: AC2 | Time: 2020/06/26 - 15:10 |
| Limit: FCC_Part15.407_RE(3m) | Engineer: Hyde Yu |
| Probe: AC2_BBHA9120D_1-18GHz | Polarity: Vertical |
| EUT: GigaSpire BLAST u4 | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11ac-VHT20 at Channel 5745MHz - CDD Mode | |

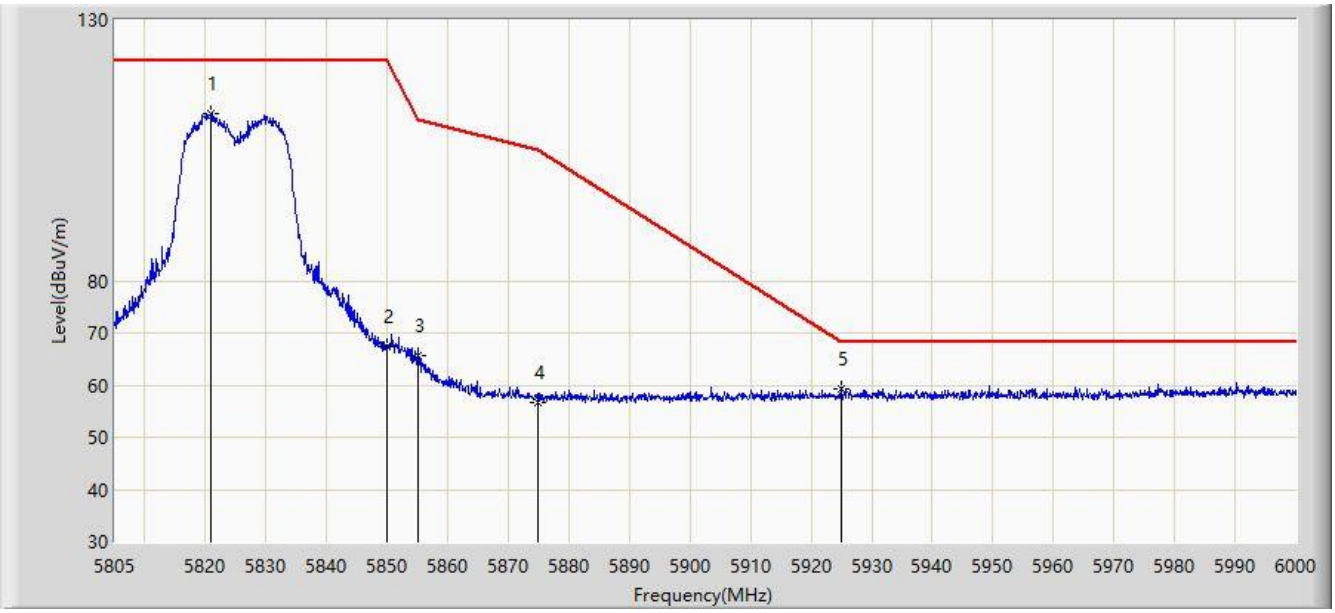



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5650.000 | 64.925 | 63.552 | -3.275 | 68.200 | 1.373 | PK |
| 2 | | | 5700.000 | 80.943 | 79.679 | -24.257 | 105.200 | 1.264 | PK |
| 3 | | | 5720.000 | 97.663 | 96.201 | -13.137 | 110.800 | 1.462 | PK |
| 4 | | | 5725.000 | 102.978 | 101.545 | -19.222 | 122.200 | 1.433 | PK |
| 5 | | * | 5740.910 | 122.908 | 121.549 | N/A | N/A | 1.358 | PK |

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

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

| | |
|---|---|
| Site: AC2 | Time: 2020/06/26 - 15:13 |
| Limit: FCC_Part15.407_RE(3m) | Engineer: Hyde Yu |
| Probe: AC2_BBHA9120D_1-18GHz | Polarity: Horizontal |
| EUT: GigaSpire BLAST u4 | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11ac-VHT20 at Channel 5825MHz - CDD Mode | |

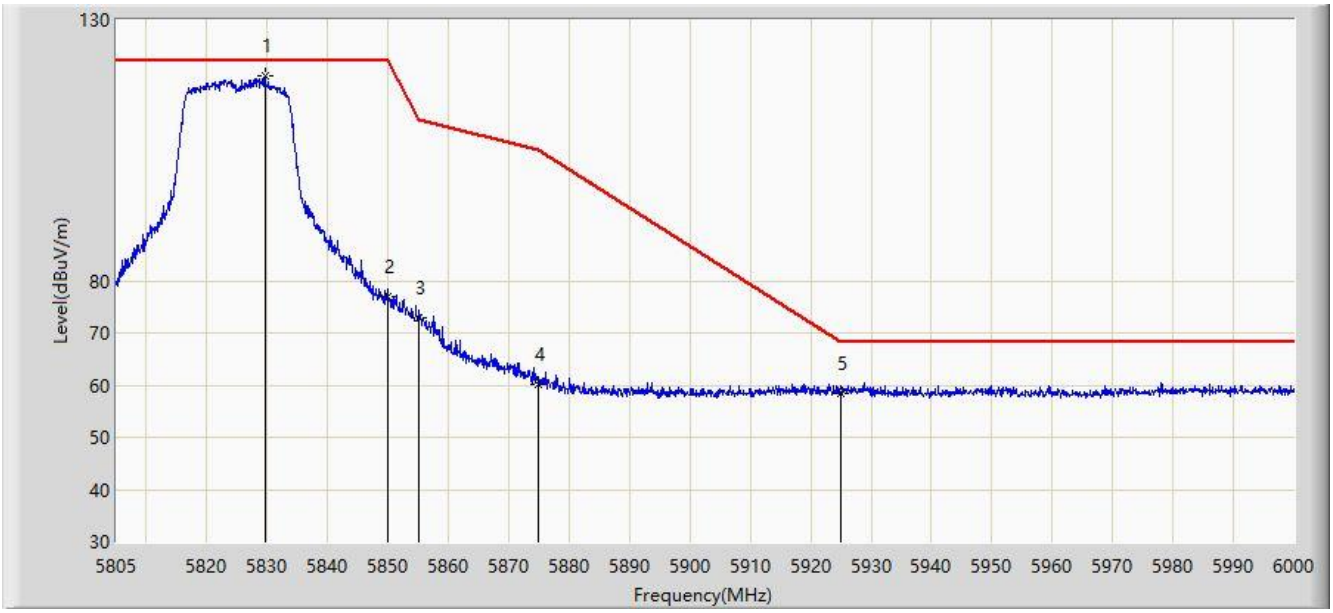



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5820.893 | 112.147 | 110.534 | N/A | N/A | 1.613 | PK |
| 2 | | | 5850.000 | 67.458 | 65.665 | -54.742 | 122.200 | 1.792 | PK |
| 3 | | | 5855.000 | 65.764 | 63.962 | -45.036 | 110.800 | 1.802 | PK |
| 4 | | | 5875.000 | 56.775 | 54.904 | -48.425 | 105.200 | 1.872 | PK |
| 5 | | * | 5925.000 | 59.160 | 57.091 | -9.040 | 68.200 | 2.069 | PK |

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

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

| | |
|---|---|
| Site: AC2 | Time: 2020/06/26 - 15:14 |
| Limit: FCC_Part15.407_RE(3m) | Engineer: Hyde Yu |
| Probe: AC2_BBHA9120D_1-18GHz | Polarity: Vertical |
| EUT: GigaSpire BLAST u4 | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11ac-VHT20 at Channel 5825MHz - CDD Mode | |

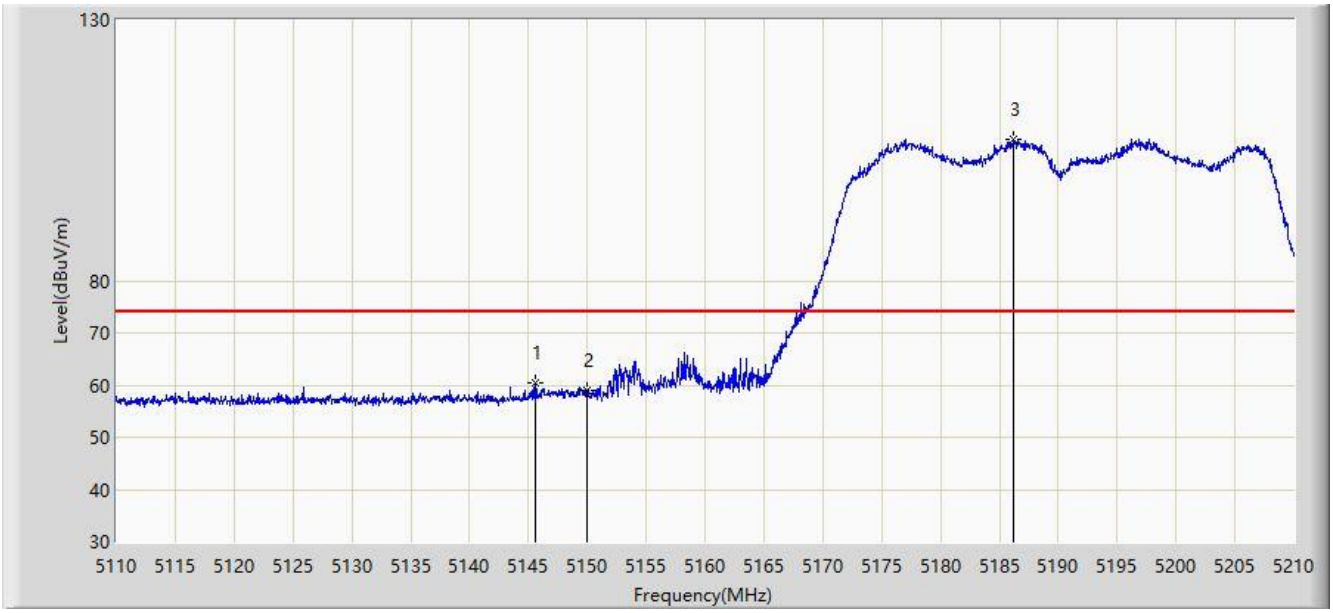



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 5829.570 | 119.148 | 117.574 | N/A | N/A | 1.575 | PK |
| 2 | | | 5850.000 | 76.965 | 75.172 | -45.235 | 122.200 | 1.792 | PK |
| 3 | | | 5855.000 | 72.957 | 71.155 | -37.843 | 110.800 | 1.802 | PK |
| 4 | | | 5875.000 | 60.259 | 58.388 | -44.941 | 105.200 | 1.872 | PK |
| 5 | | | 5925.000 | 58.415 | 56.346 | -9.785 | 68.200 | 2.069 | PK |

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

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

| | |
|---|---|
| Site: AC2 | Time: 2020/06/26 - 15:50 |
| Limit: FCC_Part15_RE(3m) | Engineer: Hyde Yu |
| Probe: AC2_BBHA9120D_1-18GHz | Polarity: Horizontal |
| EUT: GigaSpire BLAST u4 | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11ac-VHT40 at Channel 5190MHz - CDD Mode | |

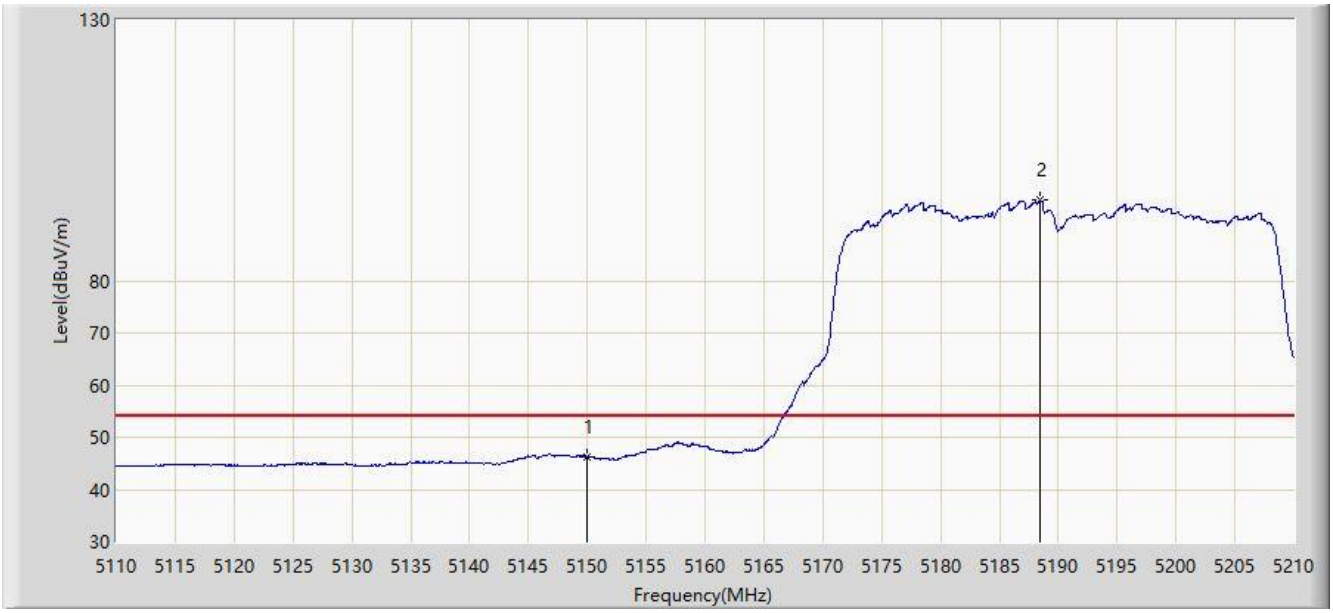



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5145.650 | 60.404 | 60.040 | -13.596 | 74.000 | 0.364 | PK |
| 2 | | | 5150.000 | 58.893 | 58.491 | -15.107 | 74.000 | 0.402 | PK |
| 3 | | * | 5186.250 | 107.196 | 106.887 | N/A | N/A | 0.310 | PK |

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

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

| | |
|---|---|
| Site: AC2 | Time: 2020/06/26 - 15:51 |
| Limit: FCC_Part15_RE(3m) | Engineer: Hyde Yu |
| Probe: AC2_BBHA9120D_1-18GHz | Polarity: Horizontal |
| EUT: GigaSpire BLAST u4 | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11ac-VHT40 at Channel 5190MHz - CDD Mode | |

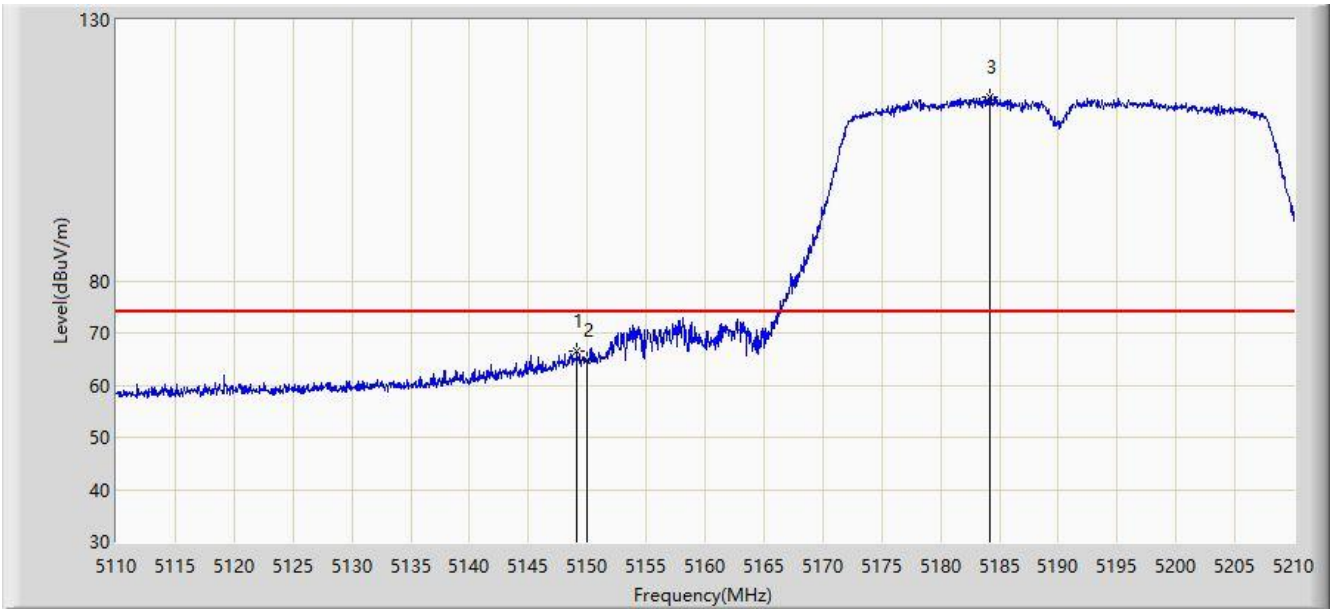



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5150.000 | 46.259 | 45.857 | -7.741 | 54.000 | 0.402 | AV |
| 2 | | * | 5188.500 | 95.383 | 95.083 | N/A | N/A | 0.301 | AV |

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

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

| | |
|---|---|
| Site: AC2 | Time: 2020/06/26 - 15:49 |
| Limit: FCC_Part15_RE(3m) | Engineer: Hyde Yu |
| Probe: AC2_BBHA9120D_1-18GHz | Polarity: Vertical |
| EUT: GigaSpire BLAST u4 | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11ac-VHT40 at Channel 5190MHz - CDD Mode | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5149.100 | 66.529 | 66.135 | -7.471 | 74.000 | 0.394 | PK |
| 2 | | | 5150.000 | 64.896 | 64.494 | -9.104 | 74.000 | 0.402 | PK |
| 3 | | * | 5184.150 | 115.360 | 115.043 | N/A | N/A | 0.317 | PK |

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

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

| | |
|---|---|
| Site: AC2 | Time: 2020/06/26 - 15:47 |
| Limit: FCC_Part15_RE(3m) | Engineer: Hyde Yu |
| Probe: AC2_BBHA9120D_1-18GHz | Polarity: Vertical |
| EUT: GigaSpire BLAST u4 | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11ac-VHT40 at Channel 5190MHz - CDD Mode | |


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5150.000 | 52.897 | 52.495 | -1.103 | 54.000 | 0.402 | AV |
| 2 | | * | 5182.900 | 104.096 | 103.772 | N/A | N/A | 0.324 | AV |

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

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