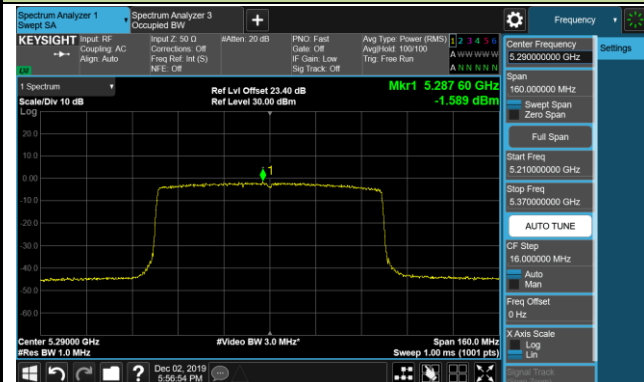
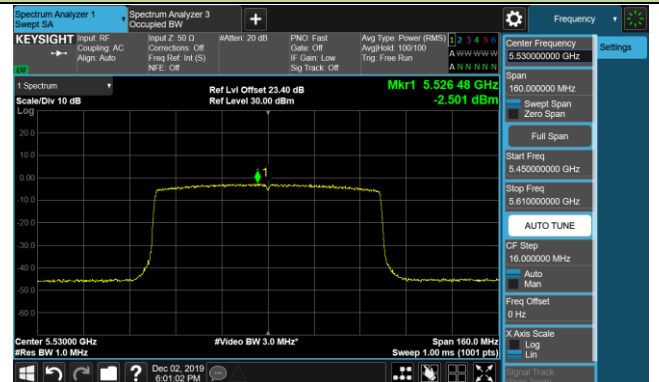


# 802.11ax-HE80 Power Spectral Density - Ant 2 / Ant 0 + 1 + 2 + 3 (Beam-Forming Mode)

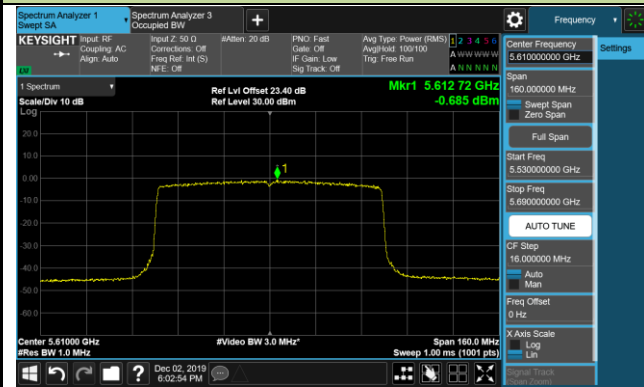
## Channel 58 (5290MHz)



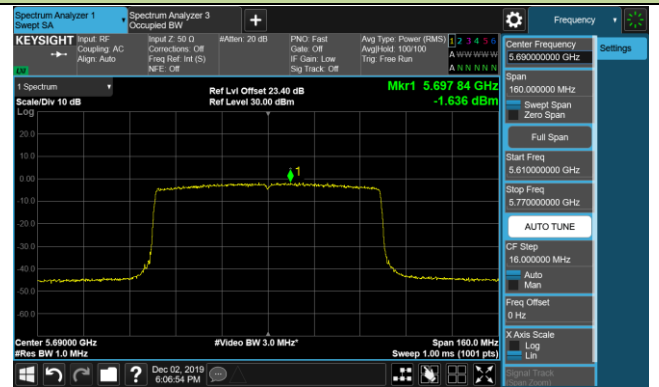
## Channel 106 (5530MHz)



## Channel 122 (5610MHz)

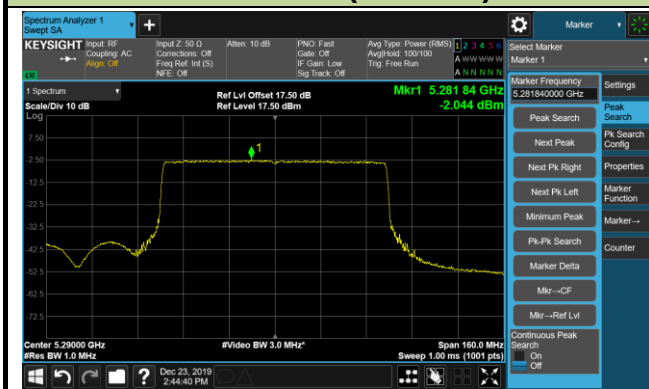


## Channel 138 (5690MHz)

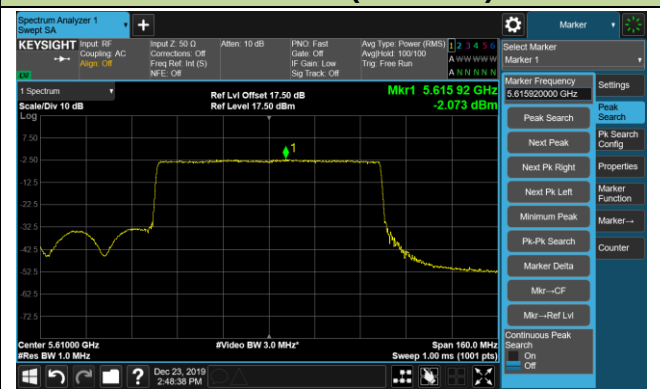


## 802.11ax-HE80+80 Contiguous Power Spectral Density - Ant 2 / Ant 0 + 1 + 2 + 3 (Beam-Forming Mode)

### Channel 58 (5290MHz)

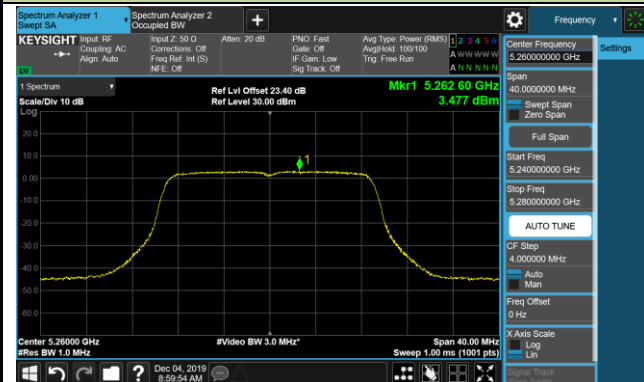


### Channel 122 (5610MHz)

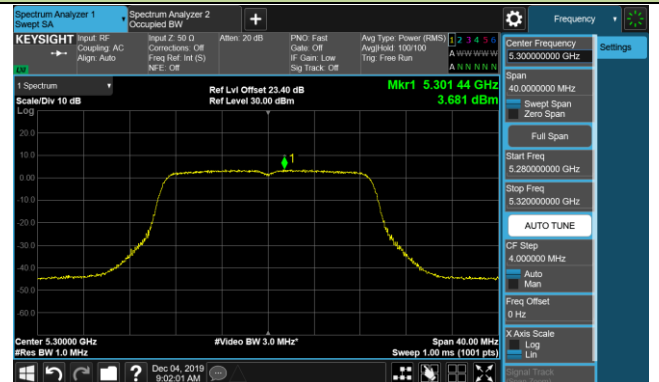


# 802.11ac-VHT20 Power Spectral Density - Ant 3 / Ant 0 + 1 + 2 + 3 (Beam-Forming Mode)

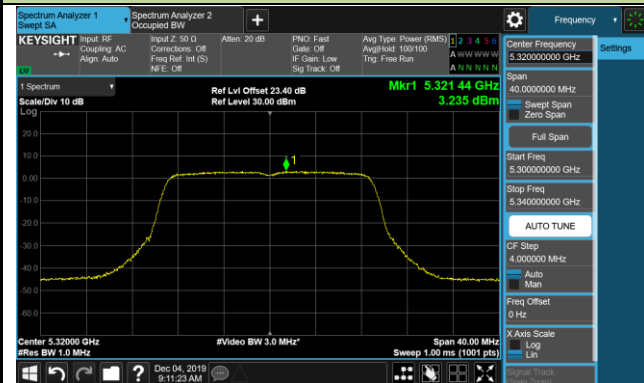
## Channel 52 (5260MHz)



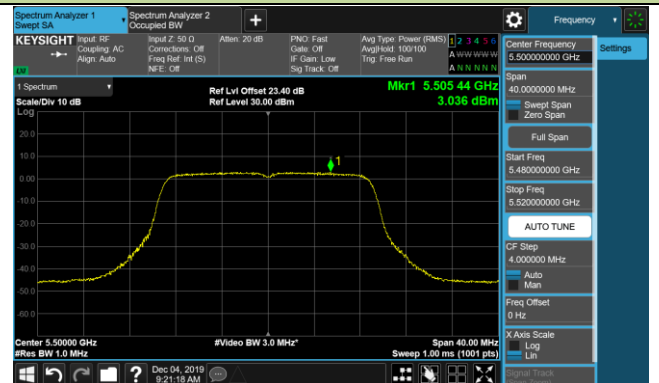
## Channel 60 (5300MHz)



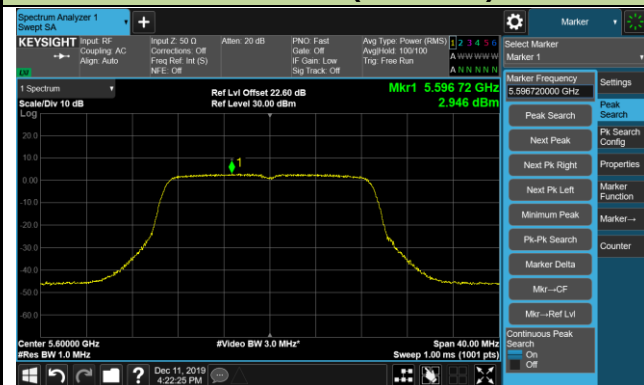
## Channel 64 (5320MHz)



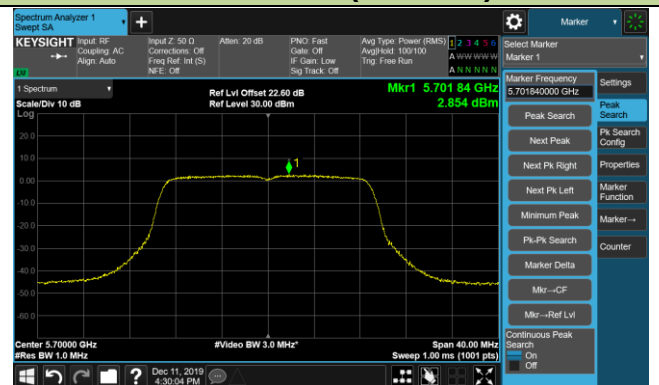
## Channel 100 (5500MHz)



## Channel 120 (5600MHz)

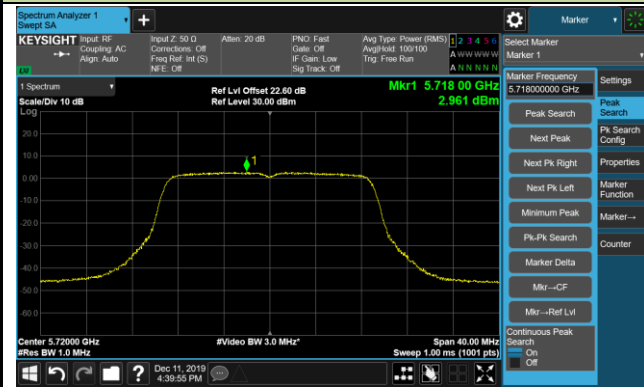


## Channel 140 (5700MHz)



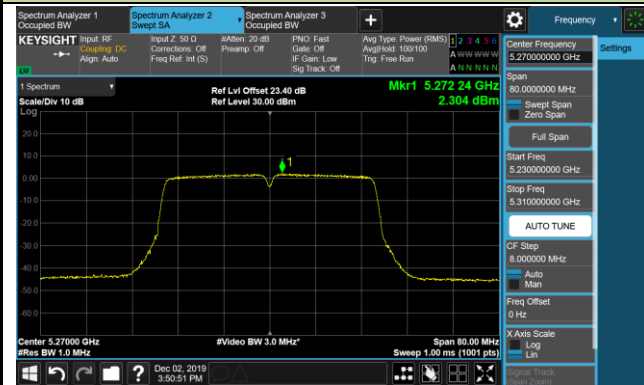
# 802.11ac-VHT20 Power Spectral Density - Ant 3 / Ant 0 + 1 + 2 + 3 (Beam-Forming Mode)

## Channel 144 (5720MHz)

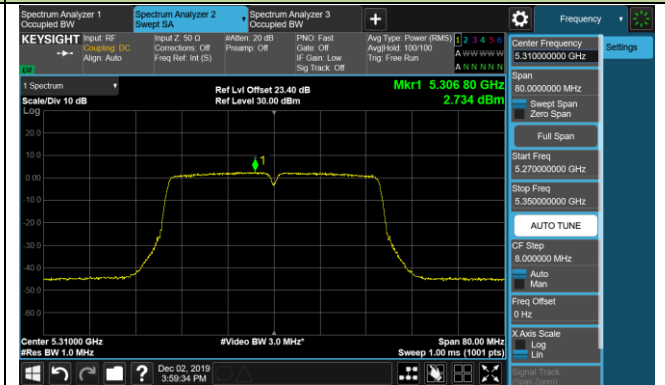


# 802.11ac-VHT40 Power Spectral Density - Ant 3 / Ant 0 + 1 + 2 + 3 (Beam-Forming Mode)

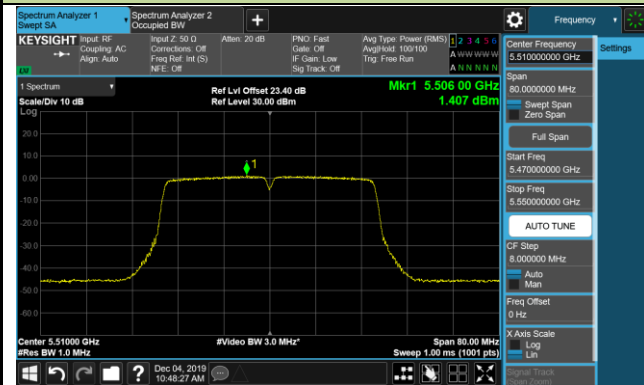
## Channel 54 (5270MHz)



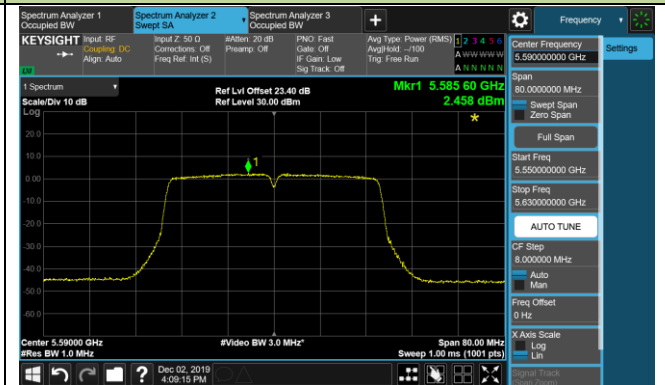
## Channel 62 (5310MHz)



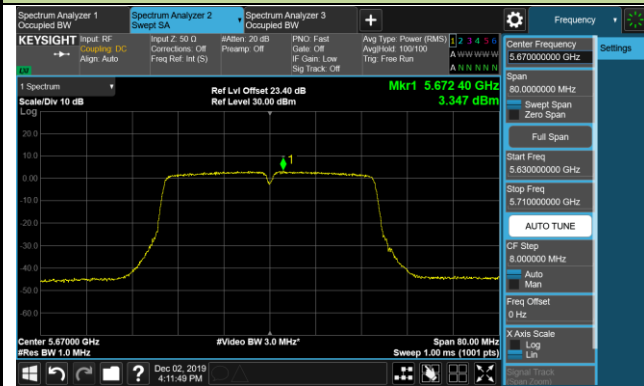
## Channel 102 (5510MHz)



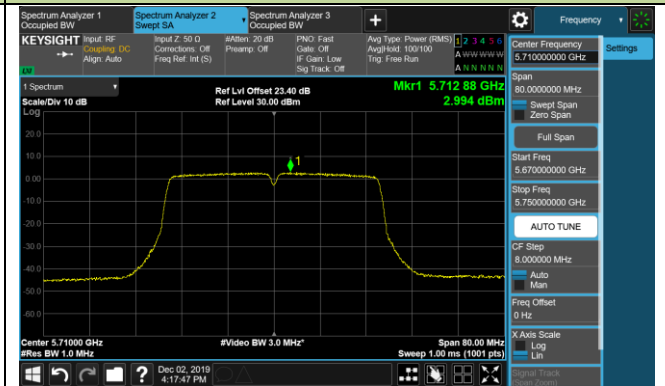
## Channel 118 (5590MHz)



## Channel 134 (5670MHz)

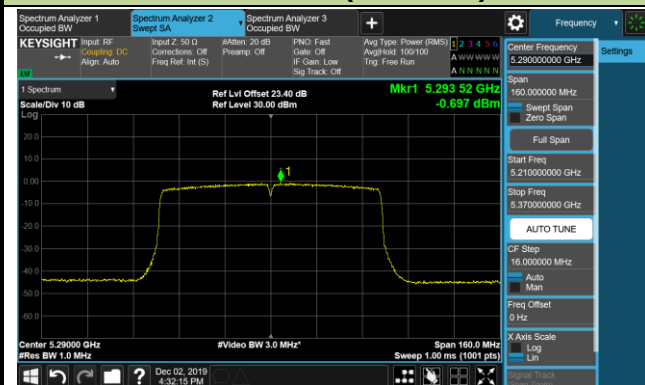


## Channel 142 (5710MHz)

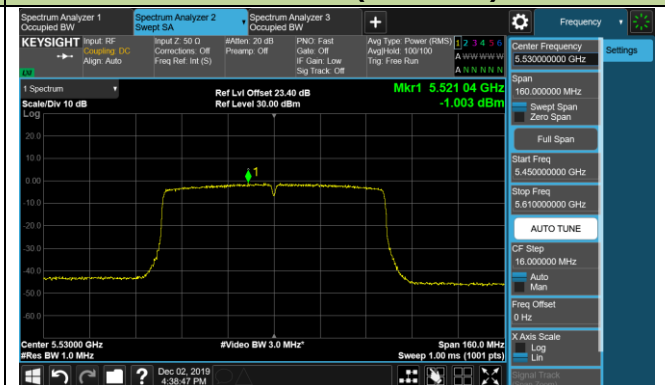


# 802.11ac-VHT80 Power Spectral Density - Ant 3 / Ant 0 + 1 + 2 + 3 (Beam-Forming Mode)

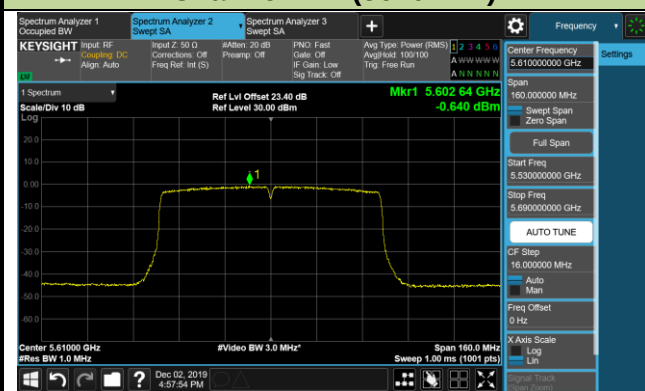
## Channel 58 (5290MHz)



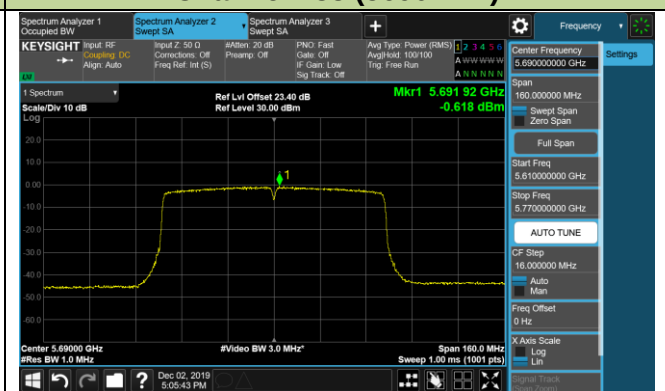
## Channel 106 (5530MHz)



## Channel 122 (5610MHz)

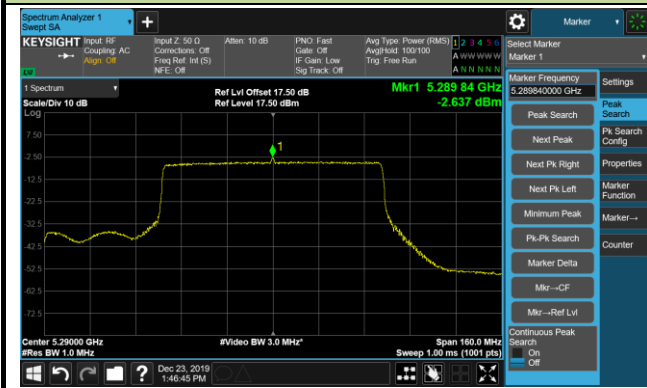


## Channel 138 (5690MHz)

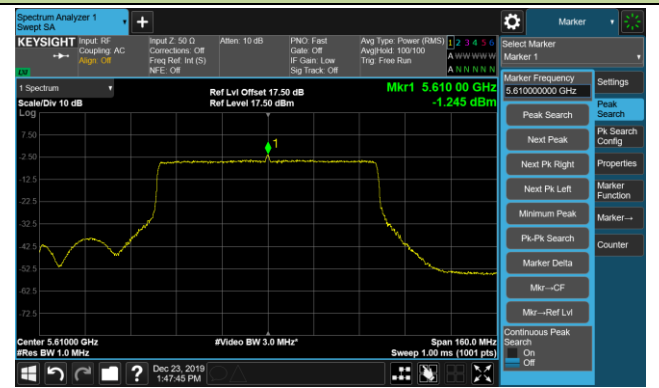


## 802.11ac-VHT80+80 Contiguous Power Spectral Density - Ant 3 / Ant 0 + 1 + 2 + 3 (Beam-Forming Mode)

### Channel 58 (5290MHz)

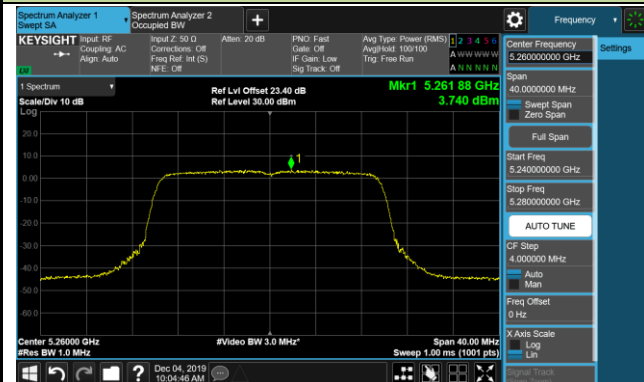


### Channel 122 (5610MHz)

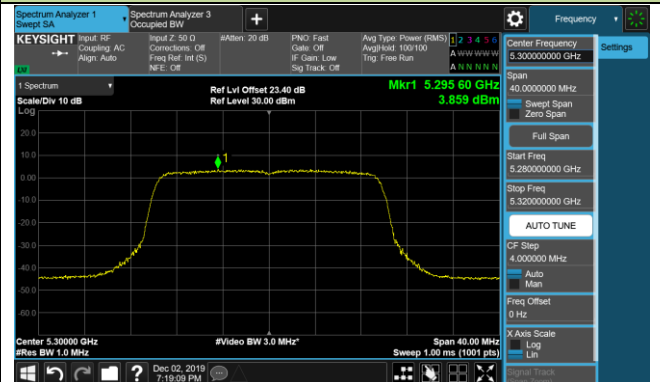


## 802.11ax-HE20 Power Spectral Density - Ant 3 / Ant 0 + 1 + 2 + 3 (Beam-Forming Mode)

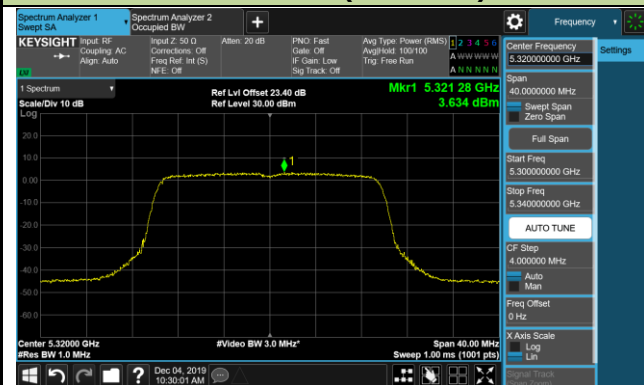
### Channel 52 (5260MHz)



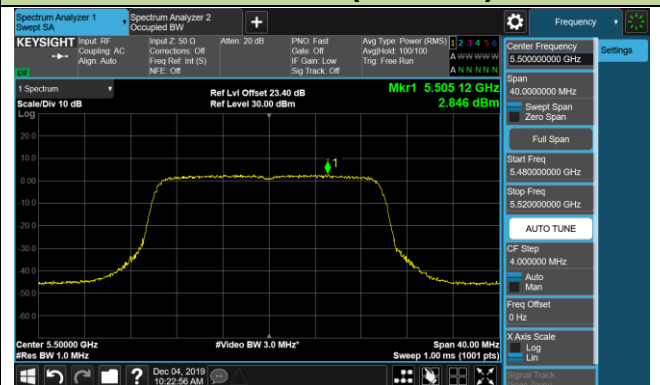
### Channel 60 (5300MHz)



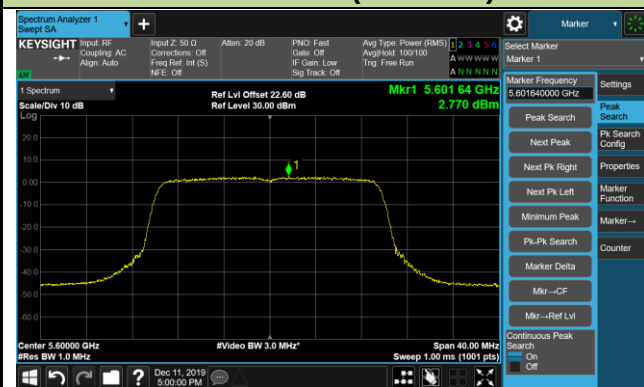
### Channel 64 (5320MHz)



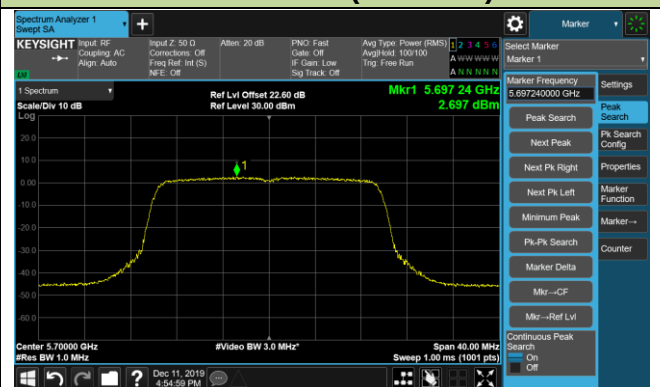
### Channel 100 (5500MHz)



### Channel 120 (5600MHz)



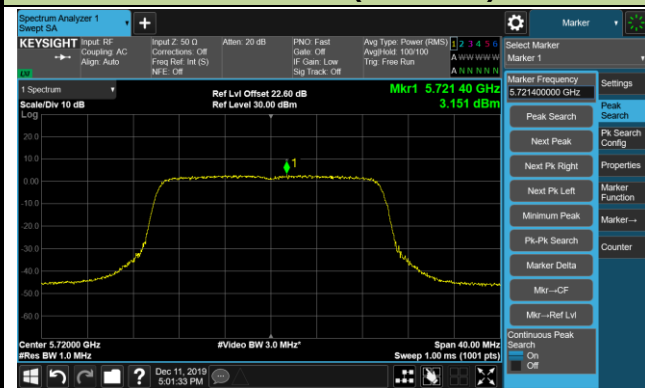
### Channel 140 (5700MHz)





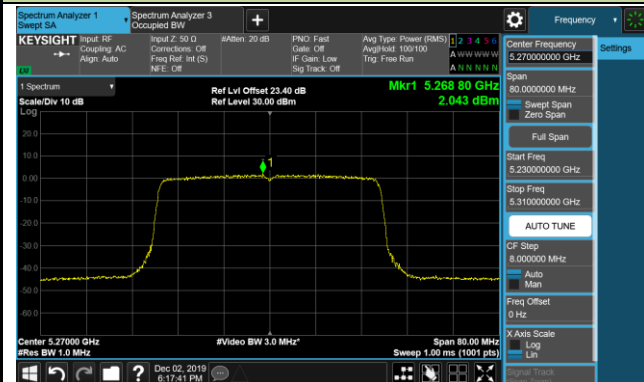
# 802.11ax-HE20 Power Spectral Density - Ant 3 / Ant 0 + 1 + 2 + 3 (Beam-Forming Mode)

## Channel 144 (5720MHz)

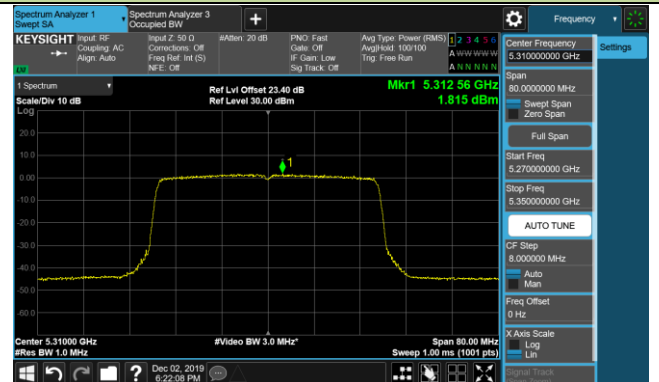


# 802.11ax-HE40 Power Spectral Density - Ant 3 / Ant 0 + 1 + 2 + 3 (Beam-Forming Mode)

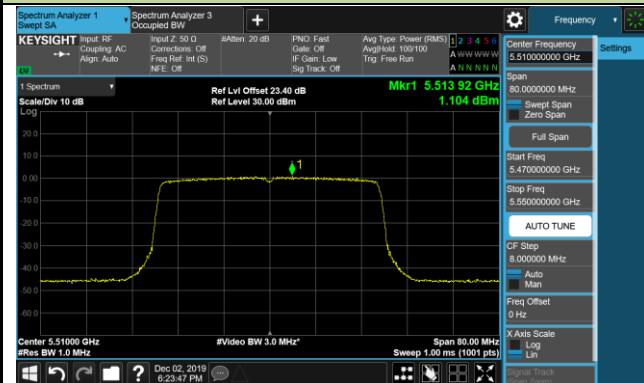
## Channel 54 (5270MHz)



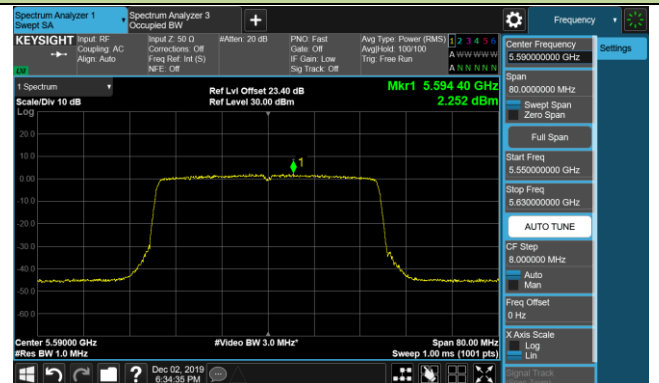
## Channel 62 (5310MHz)



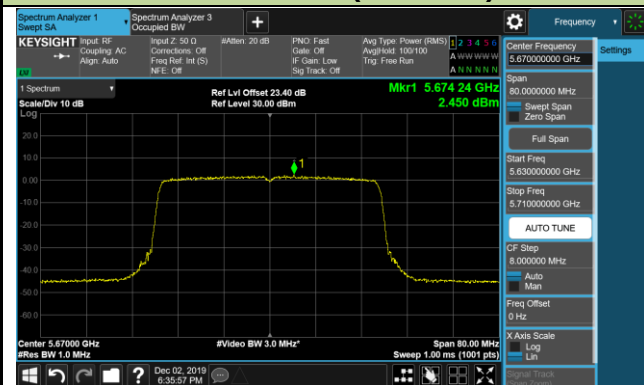
## Channel 102 (5510MHz)



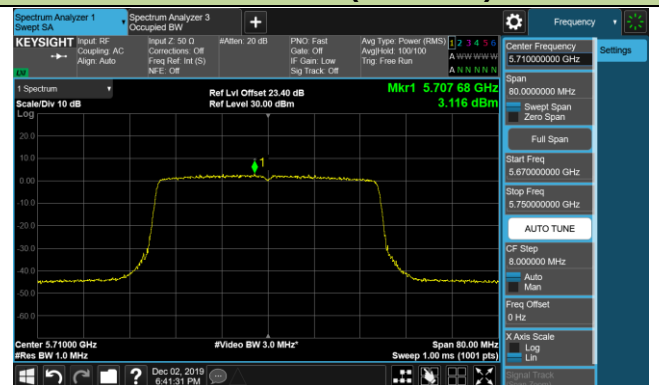
## Channel 118 (5590MHz)



## Channel 134 (5670MHz)

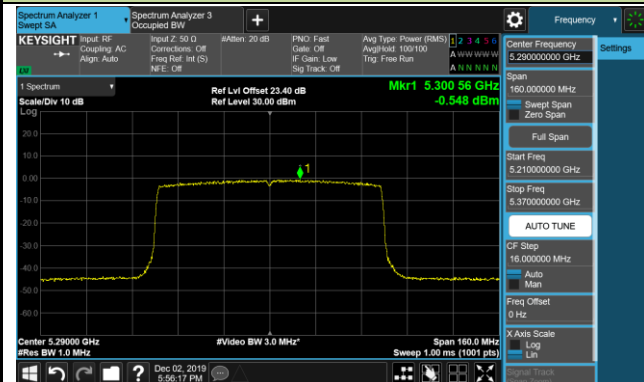


## Channel 142 (5710MHz)

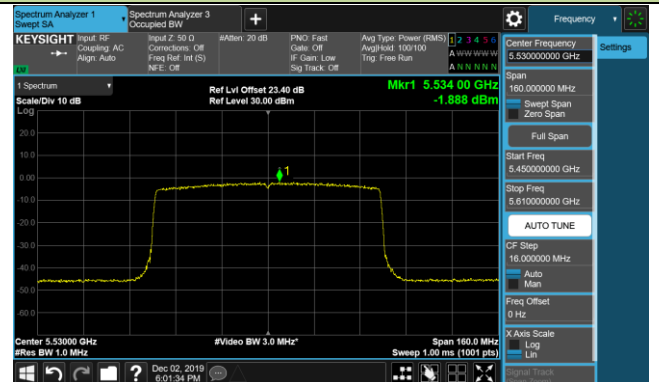


# 802.11ax-HE80 Power Spectral Density - Ant 3 / Ant 0 + 1 + 2 + 3 (Beam-Forming Mode)

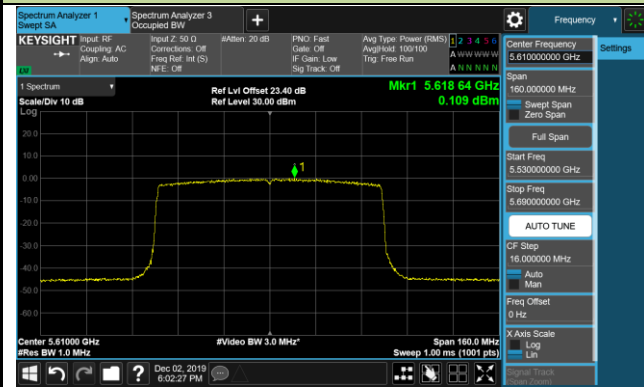
## Channel 58 (5290MHz)



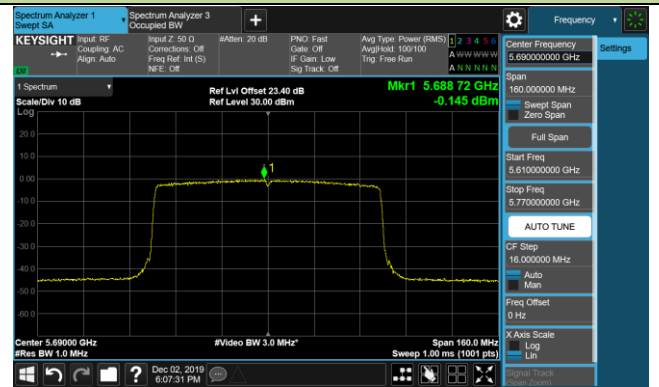
## Channel 106 (5530MHz)



## Channel 122 (5610MHz)

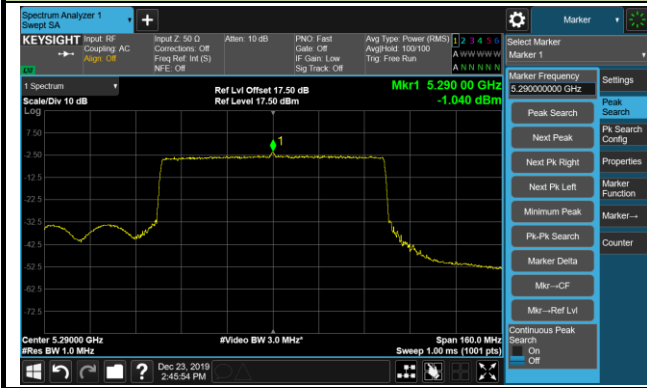


## Channel 138 (5690MHz)

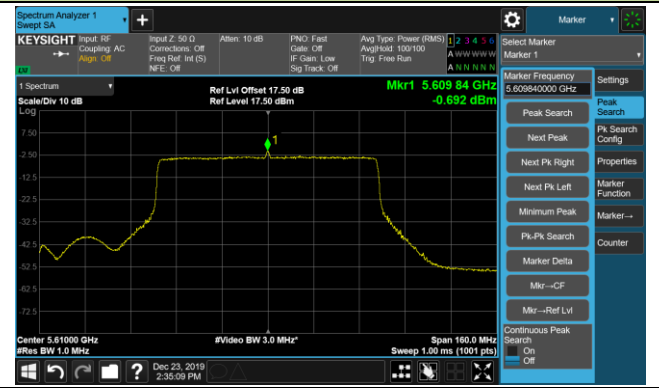


## 802.11ax-HE80+80 Contiguous Power Spectral Density - Ant 3 / Ant 0 + 1 + 2 + 3 (Beam-Forming Mode)

### Channel 58 (5290MHz)



### Channel 122 (5610MHz)



## **7.7. Frequency Stability Measurement**

### **7.7.1. Test Limit**

Manufacturers of NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

### **7.7.2. Test Procedure Used**

#### **Frequency Stability Under Temperature Variations:**

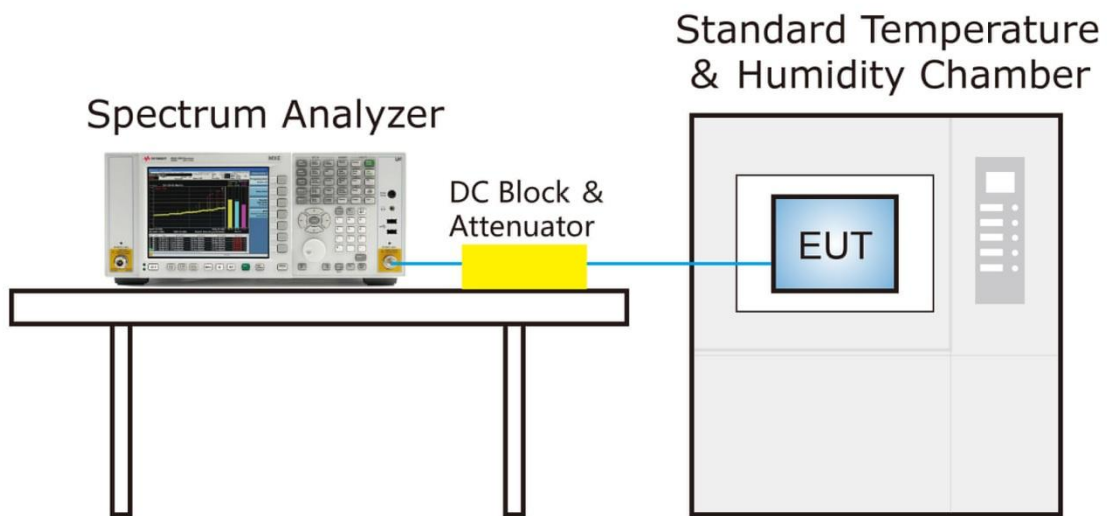
The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain 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 ( $\pm 15\%$ ) and endpoint, record the maximum frequency change.

### 7.7.3. Test Setup



### 7.7.4. Test Result

Refer to MRT Test Report “1911RSU033-U2” section 7.7.

## 7.8. Radiated Spurious Emission Measurement

### 7.8.1. Test Limit

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

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

### 7.8.2. Test Procedure Used

ANSI C63.10 Section 6.3 (General Requirements)

ANSI C63.10 Section 6.4 (Standard test method below 30MHz)

ANSI C63.10 Section 6.5 (Standard test method above 30MHz to 1GHz)

ANSI C63.10 Section 6.6 (Standard test method above 1GHz)

### 7.8.3. 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

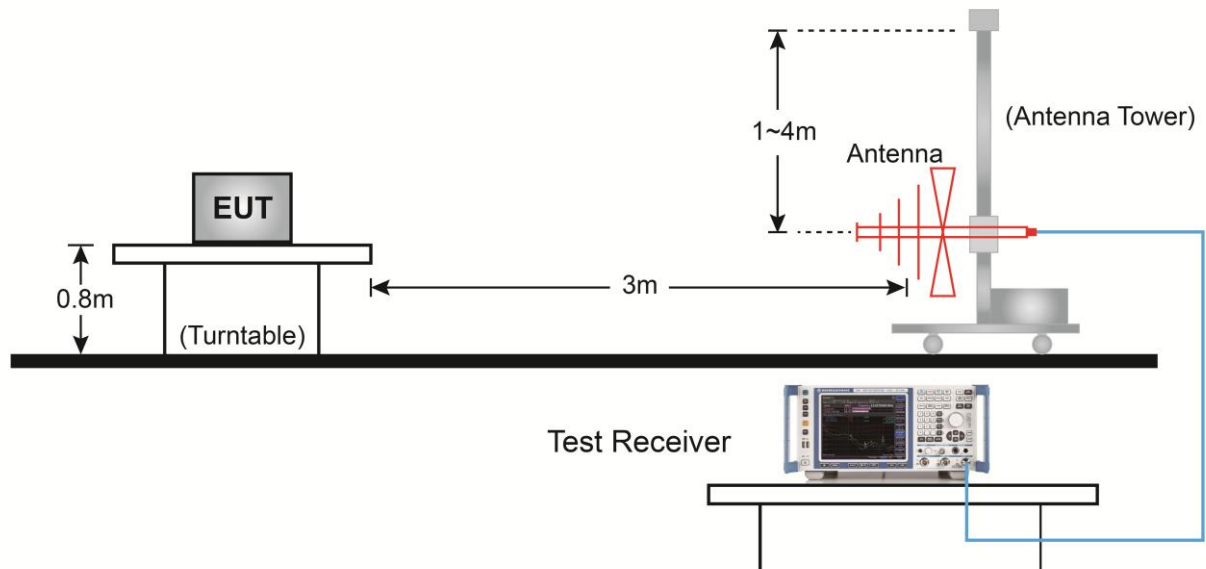
**Average Measurements above 1GHz (Method VB)**

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  $\geq 98\%$ , set VBW = 10 Hz.  
If the EUT duty cycle is  $< 98\%$ , set VBW  $\geq 1/T$ . T is the minimum transmission duration.
4. Detector = Peak
5. Sweep time = auto
6. Trace mode = max hold
7. Trace was allowed to stabilize

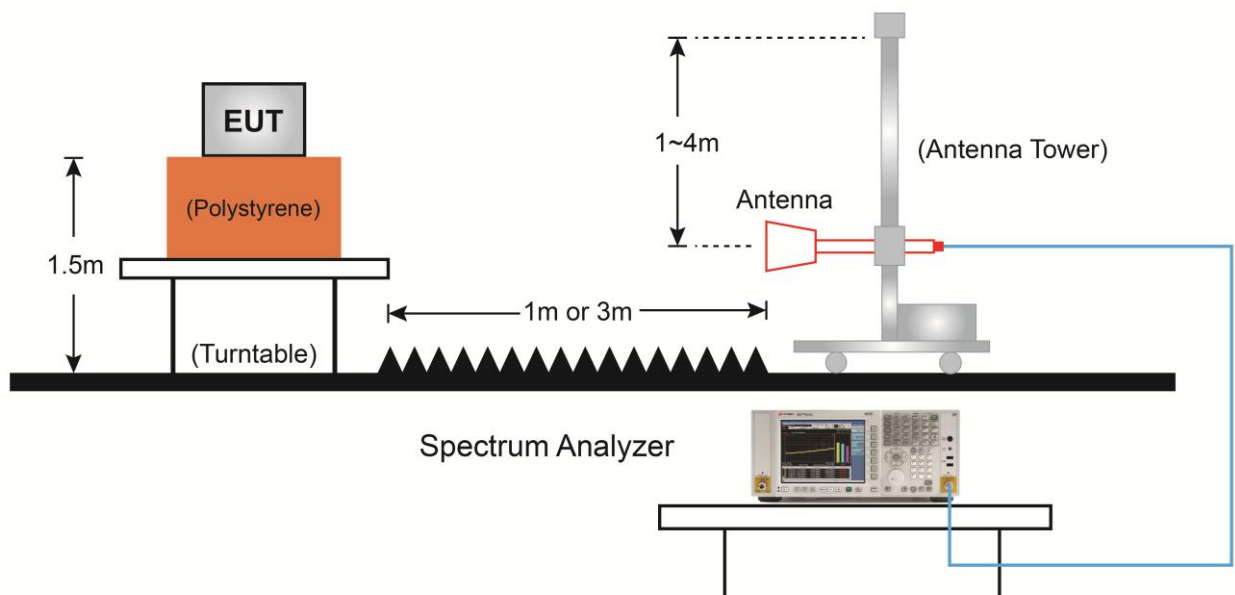


#### 7.8.4. Test Setup

##### Below 1GHz Test Setup:



##### Above 1GHz Test Setup:



### 7.8.5. Test Result

|               |                                                                                                                                                                                   |                   |                            |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|----------------------------|
| Product       | GigaSpire                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11a - Ant 0 + 1 + 2 + 3<br>(Non Beam-Forming mode)                                                                                                                            | Test Channel:     | 52                         |
| 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          | 38.9                 | 11.8        | 50.7                   | 74.0           | -23.3       | Peak     | Horizontal   |
| *    | 7910.5          | 37.6                 | 12.2        | 49.8                   | 68.2           | -18.4       | Peak     | Horizontal   |
|      | 8165.5          | 38.0                 | 12.4        | 50.4                   | 74.0           | -23.6       | Peak     | Horizontal   |
| *    | 8684.0          | 38.5                 | 13.9        | 52.4                   | 68.2           | -15.8       | Peak     | Horizontal   |
|      | 7672.5          | 38.5                 | 11.5        | 50.0                   | 74.0           | -24.0       | Peak     | Vertical     |
| *    | 7961.5          | 38.0                 | 12.4        | 50.4                   | 68.2           | -17.8       | Peak     | Vertical     |
|      | 8429.0          | 38.7                 | 12.7        | 51.4                   | 74.0           | -22.6       | Peak     | Vertical     |
| *    | 8701.0          | 38.5                 | 14.0        | 52.5                   | 68.2           | -15.7       | 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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11a - Ant 0 + 1 + 2 + 3<br>(Non Beam-Forming mode)                                                                                                                            | Test Channel:     | 60                         |
| 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 |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 7375.0          | 39.2                 | 11.9        | 51.1                   | 74.0           | -22.9       | Peak     | Horizontal   |
| *    | 7944.5          | 38.6                 | 12.5        | 51.1                   | 68.2           | -17.1       | Peak     | Horizontal   |
|      | 8165.5          | 39.0                 | 12.4        | 51.4                   | 74.0           | -22.6       | Peak     | Horizontal   |
| *    | 8820.0          | 38.0                 | 14.3        | 52.3                   | 68.2           | -15.9       | Peak     | Horizontal   |
|      | 7613.0          | 38.8                 | 11.8        | 50.6                   | 74.0           | -23.4       | Peak     | Vertical     |
| *    | 7876.5          | 36.5                 | 12.1        | 48.6                   | 68.2           | -19.6       | Peak     | Vertical     |
|      | 8386.5          | 36.8                 | 12.4        | 49.2                   | 74.0           | -24.8       | Peak     | Vertical     |
| *    | 8811.5          | 36.9                 | 14.3        | 51.2                   | 68.2           | -17.0       | 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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11a - Ant 0 + 1 + 2 + 3<br>(Non Beam-Forming mode)                                                                                                                            | Test Channel:     | 64                         |
| 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 |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 8344.0          | 37.4                 | 12.2        | 49.6                   | 74.0           | -24.4       | Peak     | Horizontal   |
| *    | 8811.5          | 36.9                 | 14.3        | 51.2                   | 68.2           | -17.0       | Peak     | Horizontal   |
|      | 9338.5          | 36.1                 | 15.8        | 51.9                   | 74.0           | -22.1       | Peak     | Horizontal   |
| *    | 10069.5         | 36.6                 | 16.8        | 53.4                   | 68.2           | -14.8       | Peak     | Horizontal   |
|      | 7307.0          | 38.1                 | 11.7        | 49.8                   | 74.0           | -24.2       | Peak     | Vertical     |
| *    | 7902.0          | 37.4                 | 12.1        | 49.5                   | 68.2           | -18.7       | Peak     | Vertical     |
|      | 8182.5          | 38.4                 | 12.4        | 50.8                   | 74.0           | -23.2       | Peak     | Vertical     |
| *    | 8854.0          | 38.7                 | 14.4        | 53.1                   | 68.2           | -15.1       | 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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11a - Ant 0 + 1 + 2 + 3<br>(Non Beam-Forming mode)                                                                                                                            | Test Channel:     | 100                        |
| 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          | 40.4                 | 11.7        | 52.1                   | 74.0           | -21.9       | Peak     | Horizontal   |
| *    | 7953.0          | 38.9                 | 12.5        | 51.4                   | 68.2           | -16.8       | Peak     | Horizontal   |
|      | 8386.5          | 39.1                 | 12.4        | 51.5                   | 74.0           | -22.5       | Peak     | Horizontal   |
| *    | 8692.5          | 38.5                 | 14.0        | 52.5                   | 68.2           | -15.7       | Peak     | Horizontal   |
|      | 7400.5          | 39.4                 | 11.8        | 51.2                   | 74.0           | -22.8       | Peak     | Vertical     |
| *    | 7910.5          | 38.6                 | 12.2        | 50.8                   | 68.2           | -17.4       | Peak     | Vertical     |
|      | 8157.0          | 38.8                 | 12.5        | 51.3                   | 74.0           | -22.7       | Peak     | Vertical     |
| *    | 8633.0          | 39.3                 | 13.5        | 52.8                   | 68.2           | -15.4       | 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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11a - Ant 0 + 1 + 2 + 3<br>(Non Beam-Forming mode)                                                                                                                            | Test Channel:     | 120                        |
| 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 |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 7664.0          | 39.0                 | 11.4        | 50.4                   | 74.0           | -23.6       | Peak     | Horizontal   |
| *    | 7944.5          | 38.1                 | 12.5        | 50.6                   | 68.2           | -17.6       | Peak     | Horizontal   |
|      | 8488.5          | 39.9                 | 12.8        | 52.7                   | 74.0           | -21.3       | Peak     | Horizontal   |
| *    | 8769.0          | 38.8                 | 14.2        | 53.0                   | 68.2           | -15.2       | Peak     | Horizontal   |
|      | 7434.5          | 38.3                 | 11.9        | 50.2                   | 74.0           | -23.8       | Peak     | Vertical     |
| *    | 7936.0          | 38.6                 | 12.5        | 51.1                   | 68.2           | -17.1       | Peak     | Vertical     |
|      | 8140.0          | 39.6                 | 12.4        | 52.0                   | 74.0           | -22.0       | Peak     | Vertical     |
| *    | 8743.5          | 38.4                 | 14.1        | 52.5                   | 68.2           | -15.7       | 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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11a - Ant 0 + 1 + 2 + 3<br>(Non Beam-Forming mode)                                                                                                                            | Test Channel:     | 140                        |
| 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 |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 7366.5          | 37.7                 | 11.9        | 49.6                   | 74.0           | -24.4       | Peak     | Horizontal   |
| *    | 7876.5          | 37.4                 | 12.1        | 49.5                   | 68.2           | -18.7       | Peak     | Horizontal   |
|      | 8165.5          | 37.9                 | 12.4        | 50.3                   | 74.0           | -23.7       | Peak     | Horizontal   |
| *    | 8854.0          | 37.6                 | 14.4        | 52.0                   | 68.2           | -16.2       | Peak     | Horizontal   |
|      | 7460.0          | 38.5                 | 11.9        | 50.4                   | 74.0           | -23.6       | Peak     | Vertical     |
| *    | 7893.5          | 38.2                 | 12.1        | 50.3                   | 68.2           | -17.9       | Peak     | Vertical     |
|      | 8165.5          | 38.6                 | 12.4        | 51.0                   | 74.0           | -23.0       | Peak     | Vertical     |
| *    | 8709.5          | 38.5                 | 13.9        | 52.4                   | 68.2           | -15.8       | 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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11a - Ant 0 + 1 + 2 + 3<br>(Non Beam-Forming mode)                                                                                                                            | Test Channel:     | 144                        |
| 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          | 38.5                 | 11.9        | 50.4                   | 74.0           | -23.6       | Peak     | Horizontal   |
|      | 8378.0          | 38.5                 | 12.3        | 50.8                   | 74.0           | -23.2       | Peak     | Horizontal   |
| *    | 8888.0          | 37.8                 | 14.2        | 52.0                   | 68.2           | -16.2       | Peak     | Horizontal   |
| *    | 9814.5          | 35.6                 | 16.8        | 52.4                   | 68.2           | -15.8       | Peak     | Horizontal   |
|      | 7485.5          | 38.2                 | 11.8        | 50.0                   | 74.0           | -24.0       | Peak     | Vertical     |
|      | 8165.5          | 37.4                 | 12.4        | 49.8                   | 74.0           | -24.2       | Peak     | Vertical     |
| *    | 8692.5          | 36.8                 | 14.0        | 50.8                   | 68.2           | -17.4       | Peak     | Vertical     |
| *    | 9814.5          | 36.4                 | 16.8        | 53.2                   | 68.2           | -15.0       | 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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11n-HT20 - Ant 0 + 1 + 2 + 3<br>(Non Beam-Forming mode)                                                                                                                       | Test Channel:     | 52                         |
| 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          | 38.7                 | 11.6        | 50.3                   | 74.0           | -23.7       | Peak     | Horizontal   |
| *    | 7936.0          | 38.6                 | 12.5        | 51.1                   | 68.2           | -17.1       | Peak     | Horizontal   |
|      | 8352.5          | 39.8                 | 12.3        | 52.1                   | 74.0           | -21.9       | Peak     | Horizontal   |
| *    | 8658.5          | 38.5                 | 13.7        | 52.2                   | 68.2           | -16.0       | Peak     | Horizontal   |
|      | 7681.0          | 38.9                 | 11.6        | 50.5                   | 74.0           | -23.5       | Peak     | Vertical     |
| *    | 7885.0          | 38.6                 | 12.1        | 50.7                   | 68.2           | -17.5       | Peak     | Vertical     |
|      | 8497.0          | 38.2                 | 12.8        | 51.0                   | 74.0           | -23.0       | Peak     | Vertical     |
| *    | 8701.0          | 38.0                 | 14.0        | 52.0                   | 68.2           | -16.2       | 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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11n-HT20 - Ant 0 + 1 + 2 + 3<br>(Non Beam-Forming mode)                                                                                                                       | Test Channel:     | 60                         |
| 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          | 38.5                 | 11.9        | 50.4                   | 74.0           | -23.6       | Peak     | Horizontal   |
|      | 8250.5          | 39.8                 | 12.2        | 52.0                   | 74.0           | -22.0       | Peak     | Horizontal   |
| *    | 8786.0          | 39.1                 | 14.1        | 53.2                   | 68.2           | -15.0       | Peak     | Horizontal   |
| *    | 10596.5         | 39.4                 | 17.5        | 56.9                   | 68.2           | -11.3       | Peak     | Horizontal   |
|      | 7366.5          | 39.1                 | 11.9        | 51.0                   | 74.0           | -23.0       | Peak     | Vertical     |
| *    | 7910.5          | 40.4                 | 12.2        | 52.6                   | 68.2           | -15.6       | Peak     | Vertical     |
|      | 8259.0          | 38.4                 | 12.3        | 50.7                   | 74.0           | -23.3       | Peak     | Vertical     |
| *    | 10443.5         | 38.7                 | 17.7        | 56.4                   | 68.2           | -11.8       | 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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11n-HT20 - Ant 0 + 1 + 2 + 3<br>(Non Beam-Forming mode)                                                                                                                       | Test Channel:     | 64                         |
| 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          | 35.6                 | 11.8        | 47.4                   | 74.0           | -26.6       | Peak     | Horizontal   |
|      | 8165.5          | 37.2                 | 12.4        | 49.6                   | 74.0           | -24.4       | Peak     | Horizontal   |
| *    | 8786.0          | 36.7                 | 14.1        | 50.8                   | 68.2           | -17.4       | Peak     | Horizontal   |
| *    | 10537.0         | 35.6                 | 17.7        | 53.3                   | 68.2           | -14.9       | Peak     | Horizontal   |
|      | 7613.0          | 35.8                 | 11.8        | 47.6                   | 74.0           | -26.4       | Peak     | Vertical     |
|      | 8199.5          | 37.1                 | 12.4        | 49.5                   | 74.0           | -24.5       | Peak     | Vertical     |
| *    | 8743.5          | 36.9                 | 14.1        | 51.0                   | 68.2           | -17.2       | Peak     | Vertical     |
| *    | 10520.0         | 36.9                 | 17.6        | 54.5                   | 68.2           | -13.7       | 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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11n-HT20 - Ant 0 + 1 + 2 + 3<br>(Non Beam-Forming mode)                                                                                                                       | Test Channel:     | 100                        |
| 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 |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 8191.0          | 37.0                 | 12.4        | 49.4                   | 74.0           | -24.6       | Peak     | Horizontal   |
| *    | 8743.5          | 38.0                 | 14.1        | 52.1                   | 68.2           | -16.1       | Peak     | Horizontal   |
| *    | 9908.0          | 37.7                 | 16.9        | 54.6                   | 68.2           | -13.6       | Peak     | Horizontal   |
|      | 11000.0         | 38.8                 | 18.1        | 56.9                   | 74.0           | -17.1       | Peak     | Horizontal   |
|      | 11000.0         | 33.9                 | 18.1        | 52.0                   | 54.0           | -2.0        | Average  | Horizontal   |
|      | 7698.0          | 38.8                 | 11.7        | 50.5                   | 74.0           | -23.5       | Peak     | Vertical     |
|      | 8412.0          | 37.2                 | 12.3        | 49.5                   | 74.0           | -24.5       | Peak     | Vertical     |
| *    | 8709.5          | 37.8                 | 13.9        | 51.7                   | 68.2           | -16.5       | Peak     | Vertical     |
|      | 11455.0         | 38.8                 | 17.7        | 56.5                   | 74.0           | -17.5       | 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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11n-HT20 - Ant 0 + 1 + 2 + 3<br>(Non Beam-Forming mode)                                                                                                                       | Test Channel:     | 120                        |
| 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 |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 8157.0          | 38.3                 | 12.5        | 50.8                   | 74.0           | -23.2       | Peak     | Horizontal   |
| *    | 8667.0          | 38.4                 | 13.8        | 52.2                   | 68.2           | -16.0       | Peak     | Horizontal   |
|      | 9168.5          | 36.0                 | 15.3        | 51.3                   | 74.0           | -22.7       | Peak     | Horizontal   |
| *    | 9602.0          | 37.0                 | 16.2        | 53.2                   | 68.2           | -15.0       | Peak     | Horizontal   |
|      | 7434.5          | 38.1                 | 11.9        | 50.0                   | 74.0           | -24.0       | Peak     | Vertical     |
| *    | 7893.5          | 38.4                 | 12.1        | 50.5                   | 68.2           | -17.7       | Peak     | Vertical     |
|      | 8437.5          | 38.1                 | 12.7        | 50.8                   | 74.0           | -23.2       | Peak     | Vertical     |
| *    | 8658.5          | 37.3                 | 13.7        | 51.0                   | 68.2           | -17.2       | 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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11n-HT20 - Ant 0 + 1 + 2 + 3<br>(Non Beam-Forming mode)                                                                                                                       | Test Channel:     | 140                        |
| 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 |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 7451.5          | 37.9                 | 12.0        | 49.9                   | 74.0           | -24.1       | Peak     | Horizontal   |
| *    | 7953.0          | 38.0                 | 12.5        | 50.5                   | 68.2           | -17.7       | Peak     | Horizontal   |
|      | 8471.5          | 39.2                 | 12.7        | 51.9                   | 74.0           | -22.1       | Peak     | Horizontal   |
| *    | 8692.5          | 38.9                 | 14.0        | 52.9                   | 68.2           | -15.3       | Peak     | Horizontal   |
|      | 7451.5          | 37.9                 | 12.0        | 49.9                   | 74.0           | -24.1       | Peak     | Vertical     |
| *    | 7817.0          | 38.3                 | 11.8        | 50.1                   | 68.2           | -18.1       | Peak     | Vertical     |
|      | 8225.0          | 38.5                 | 12.4        | 50.9                   | 74.0           | -23.1       | Peak     | Vertical     |
| *    | 8760.5          | 37.2                 | 14.2        | 51.4                   | 68.2           | -16.8       | 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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11n-HT20 - Ant 0 + 1 + 2 + 3<br>(Non Beam-Forming mode)                                                                                                                       | Test Channel:     | 144                        |
| 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 |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 7528.0          | 38.5                 | 11.8        | 50.3                   | 74.0           | -23.7       | Peak     | Horizontal   |
|      | 8140.0          | 38.4                 | 12.4        | 50.8                   | 74.0           | -23.2       | Peak     | Horizontal   |
| *    | 8599.0          | 37.4                 | 13.4        | 50.8                   | 68.2           | -17.4       | Peak     | Horizontal   |
| *    | 9772.0          | 35.4                 | 16.7        | 52.1                   | 68.2           | -16.1       | Peak     | Horizontal   |
|      | 7664.0          | 38.9                 | 11.4        | 50.3                   | 74.0           | -23.7       | Peak     | Vertical     |
|      | 8437.5          | 38.4                 | 12.7        | 51.1                   | 74.0           | -22.9       | Peak     | Vertical     |
| *    | 8922.0          | 37.7                 | 14.3        | 52.0                   | 68.2           | -16.2       | Peak     | Vertical     |
| *    | 9823.0          | 36.3                 | 16.9        | 53.2                   | 68.2           | -15.0       | 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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11n-HT40 - Ant 0 + 1 + 2 + 3<br>(Non Beam-Forming mode)                                                                                                                       | Test Channel:     | 54                         |
| 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          | 38.2                 | 11.9        | 50.1                   | 74.0           | -23.9       | Peak     | Horizontal   |
| *    | 7953.0          | 38.6                 | 12.5        | 51.1                   | 68.2           | -17.1       | Peak     | Horizontal   |
|      | 8199.5          | 38.6                 | 12.4        | 51.0                   | 74.0           | -23.0       | Peak     | Horizontal   |
| *    | 8820.0          | 37.7                 | 14.3        | 52.0                   | 68.2           | -16.2       | Peak     | Horizontal   |
|      | 7366.5          | 38.7                 | 11.9        | 50.6                   | 74.0           | -23.4       | Peak     | Vertical     |
| *    | 7927.5          | 37.5                 | 12.4        | 49.9                   | 68.2           | -18.3       | Peak     | Vertical     |
|      | 8225.0          | 38.4                 | 12.4        | 50.8                   | 74.0           | -23.2       | Peak     | Vertical     |
| *    | 8641.5          | 37.8                 | 13.6        | 51.4                   | 68.2           | -16.8       | 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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11n-HT40 - Ant 0 + 1 + 2 + 3<br>(Non Beam-Forming mode)                                                                                                                       | Test Channel:     | 62                         |
| 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 |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 7613.0          | 37.5                 | 11.8        | 49.3                   | 74.0           | -24.7       | Peak     | Horizontal   |
| *    | 7927.5          | 38.3                 | 12.4        | 50.7                   | 68.2           | -17.5       | Peak     | Horizontal   |
|      | 8157.0          | 39.5                 | 12.5        | 52.0                   | 74.0           | -22.0       | Peak     | Horizontal   |
| *    | 8633.0          | 39.2                 | 13.5        | 52.7                   | 68.2           | -15.5       | Peak     | Horizontal   |
|      | 7613.0          | 37.5                 | 11.8        | 49.3                   | 74.0           | -24.7       | Peak     | Vertical     |
| *    | 7927.5          | 38.3                 | 12.4        | 50.7                   | 68.2           | -17.5       | Peak     | Vertical     |
|      | 8157.0          | 39.5                 | 12.5        | 52.0                   | 74.0           | -22.0       | Peak     | Vertical     |
| *    | 8633.0          | 39.2                 | 13.5        | 52.7                   | 68.2           | -15.5       | 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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11n-HT40 - Ant 0 + 1 + 2 + 3<br>(Non Beam-Forming mode)                                                                                                                       | Test Channel:     | 102                        |
| 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 |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 7451.5          | 38.9                 | 12.0        | 50.9                   | 74.0           | -23.1       | Peak     | Horizontal   |
| *    | 7910.5          | 37.5                 | 12.2        | 49.7                   | 68.2           | -18.5       | Peak     | Horizontal   |
|      | 8233.5          | 38.2                 | 12.3        | 50.5                   | 74.0           | -23.5       | Peak     | Horizontal   |
| *    | 8692.5          | 38.1                 | 14.0        | 52.1                   | 68.2           | -16.1       | Peak     | Horizontal   |
|      | 7689.5          | 37.9                 | 11.6        | 49.5                   | 74.0           | -24.5       | Peak     | Vertical     |
| *    | 7885.0          | 37.4                 | 12.1        | 49.5                   | 68.2           | -18.7       | Peak     | Vertical     |
|      | 8259.0          | 38.6                 | 12.3        | 50.9                   | 74.0           | -23.1       | Peak     | Vertical     |
| *    | 8692.5          | 37.2                 | 14.0        | 51.2                   | 68.2           | -17.0       | 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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11n-HT40 - Ant 0 + 1 + 2 + 3<br>(Non Beam-Forming mode)                                                                                                                       | Test Channel:     | 118                        |
| 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          | 38.6                 | 11.8        | 50.4                   | 74.0           | -23.6       | Peak     | Horizontal   |
| *    | 7978.5          | 38.3                 | 12.4        | 50.7                   | 68.2           | -17.5       | Peak     | Horizontal   |
|      | 8437.5          | 37.8                 | 12.7        | 50.5                   | 74.0           | -23.5       | Peak     | Horizontal   |
| *    | 8692.5          | 37.1                 | 14.0        | 51.1                   | 68.2           | -17.1       | Peak     | Horizontal   |
|      | 7417.5          | 37.4                 | 11.8        | 49.2                   | 74.0           | -24.8       | Peak     | Vertical     |
| *    | 7987.0          | 38.0                 | 12.4        | 50.4                   | 68.2           | -17.8       | Peak     | Vertical     |
|      | 8174.0          | 38.4                 | 12.4        | 50.8                   | 74.0           | -23.2       | Peak     | Vertical     |
| *    | 8667.0          | 37.2                 | 13.8        | 51.0                   | 68.2           | -17.2       | 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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11n-HT40 - Ant 0 + 1 + 2 + 3<br>(Non Beam-Forming mode)                                                                                                                       | Test Channel:     | 134                        |
| 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          | 39.0                 | 11.8        | 50.8                   | 74.0           | -23.2       | Peak     | Horizontal   |
| *    | 7987.0          | 38.7                 | 12.4        | 51.1                   | 68.2           | -17.1       | Peak     | Horizontal   |
|      | 8157.0          | 38.6                 | 12.5        | 51.1                   | 74.0           | -22.9       | Peak     | Horizontal   |
| *    | 8828.5          | 36.7                 | 14.3        | 51.0                   | 68.2           | -17.2       | Peak     | Horizontal   |
|      | 7485.5          | 39.0                 | 11.8        | 50.8                   | 74.0           | -23.2       | Peak     | Vertical     |
| *    | 7987.0          | 38.7                 | 12.4        | 51.1                   | 68.2           | -17.1       | Peak     | Vertical     |
|      | 8157.0          | 38.6                 | 12.5        | 51.1                   | 74.0           | -22.9       | Peak     | Vertical     |
| *    | 8726.5          | 37.9                 | 13.9        | 51.8                   | 68.2           | -16.4       | 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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11n-HT40 - Ant 0 + 1 + 2 + 3<br>(Non Beam-Forming mode)                                                                                                                       | Test Channel:     | 142                        |
| 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 |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 7647.0          | 36.0                 | 11.4        | 47.4                   | 74.0           | -26.6       | Peak     | Horizontal   |
| *    | 7842.5          | 36.4                 | 11.9        | 48.3                   | 68.2           | -19.9       | Peak     | Horizontal   |
|      | 8344.0          | 37.9                 | 12.2        | 50.1                   | 74.0           | -23.9       | Peak     | Horizontal   |
| *    | 8820.0          | 37.0                 | 14.3        | 51.3                   | 68.2           | -16.9       | Peak     | Horizontal   |
|      | 7587.5          | 37.5                 | 11.7        | 49.2                   | 74.0           | -24.8       | Peak     | Vertical     |
| *    | 7961.5          | 37.4                 | 12.4        | 49.8                   | 68.2           | -18.4       | Peak     | Vertical     |
|      | 8395.0          | 37.4                 | 12.4        | 49.8                   | 74.0           | -24.2       | Peak     | Vertical     |
| *    | 8735.0          | 37.2                 | 14.0        | 51.2                   | 68.2           | -17.0       | 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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11ac-VHT20 - Ant 0 + 1 + 2 + 3<br>(Non Beam-Forming mode)                                                                                                                     | Test Channel:     | 52                         |
| 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          | 37.8                 | 11.8        | 49.6                   | 74.0           | -24.4       | Peak     | Horizontal   |
| *    | 7936.0          | 37.5                 | 12.5        | 50.0                   | 68.2           | -18.2       | Peak     | Horizontal   |
|      | 8276.0          | 38.3                 | 12.3        | 50.6                   | 74.0           | -23.4       | Peak     | Horizontal   |
| *    | 8709.5          | 36.3                 | 13.9        | 50.2                   | 68.2           | -18.0       | Peak     | Horizontal   |
|      | 7706.5          | 38.4                 | 11.6        | 50.0                   | 74.0           | -24.0       | Peak     | Vertical     |
| *    | 7868.0          | 37.8                 | 12.1        | 49.9                   | 68.2           | -18.3       | Peak     | Vertical     |
|      | 8165.5          | 38.5                 | 12.4        | 50.9                   | 74.0           | -23.1       | Peak     | Vertical     |
| *    | 8760.5          | 37.0                 | 14.2        | 51.2                   | 68.2           | -17.0       | 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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11ac-VHT20 - Ant 0 + 1 + 2 + 3<br>(Non Beam-Forming mode)                                                                                                                     | Test Channel:     | 60                         |
| 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 |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 7647.0          | 37.2                 | 11.4        | 48.6                   | 74.0           | -25.4       | Peak     | Horizontal   |
| *    | 7919.0          | 37.2                 | 12.3        | 49.5                   | 68.2           | -18.7       | Peak     | Horizontal   |
|      | 8182.5          | 37.8                 | 12.4        | 50.2                   | 74.0           | -23.8       | Peak     | Horizontal   |
| *    | 8752.0          | 36.9                 | 14.2        | 51.1                   | 68.2           | -17.1       | Peak     | Horizontal   |
|      | 7545.0          | 36.7                 | 11.7        | 48.4                   | 74.0           | -25.6       | Peak     | Vertical     |
| *    | 7868.0          | 37.5                 | 12.1        | 49.6                   | 68.2           | -18.6       | Peak     | Vertical     |
|      | 8165.5          | 37.0                 | 12.4        | 49.4                   | 74.0           | -24.6       | Peak     | Vertical     |
| *    | 8692.5          | 36.8                 | 14.0        | 50.8                   | 68.2           | -17.4       | 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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11ac-VHT20 - Ant 0 + 1 + 2 + 3<br>(Non Beam-Forming mode)                                                                                                                     | Test Channel:     | 64                         |
| 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          | 37.5                 | 11.9        | 49.4                   | 74.0           | -24.6       | Peak     | Horizontal   |
| *    | 7859.5          | 38.2                 | 12.0        | 50.2                   | 68.2           | -18.0       | Peak     | Horizontal   |
|      | 8157.0          | 38.1                 | 12.5        | 50.6                   | 74.0           | -23.4       | Peak     | Horizontal   |
| *    | 8862.5          | 36.8                 | 14.4        | 51.2                   | 68.2           | -17.0       | Peak     | Horizontal   |
|      | 7494.0          | 37.6                 | 11.8        | 49.4                   | 74.0           | -24.6       | Peak     | Vertical     |
| *    | 7995.5          | 37.6                 | 12.5        | 50.1                   | 68.2           | -18.1       | Peak     | Vertical     |
|      | 8208.0          | 36.5                 | 12.3        | 48.8                   | 74.0           | -25.2       | Peak     | Vertical     |
| *    | 8667.0          | 37.4                 | 13.8        | 51.2                   | 68.2           | -17.0       | 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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11ac-VHT20 - Ant 0 + 1 + 2 + 3<br>(Non Beam-Forming mode)                                                                                                                     | Test Channel:     | 100                        |
| 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          | 38.3                 | 11.8        | 50.1                   | 74.0           | -23.9       | Peak     | Horizontal   |
| *    | 7927.5          | 37.9                 | 12.4        | 50.3                   | 68.2           | -17.9       | Peak     | Horizontal   |
|      | 8191.0          | 38.0                 | 12.4        | 50.4                   | 74.0           | -23.6       | Peak     | Horizontal   |
| *    | 8709.5          | 37.4                 | 13.9        | 51.3                   | 68.2           | -16.9       | Peak     | Horizontal   |
|      | 7409.0          | 37.9                 | 11.8        | 49.7                   | 74.0           | -24.3       | Peak     | Vertical     |
| *    | 7953.0          | 37.8                 | 12.5        | 50.3                   | 68.2           | -17.9       | Peak     | Vertical     |
|      | 8199.5          | 37.5                 | 12.4        | 49.9                   | 74.0           | -24.1       | Peak     | Vertical     |
| *    | 8905.0          | 37.7                 | 14.2        | 51.9                   | 68.2           | -16.3       | 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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11ac-VHT20 - Ant 0 + 1 + 2 + 3<br>(Non Beam-Forming mode)                                                                                                                     | Test Channel:     | 120                        |
| 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          | 37.9                 | 11.9        | 49.8                   | 74.0           | -24.2       | Peak     | Horizontal   |
| *    | 7868.0          | 37.1                 | 12.1        | 49.2                   | 68.2           | -19.0       | Peak     | Horizontal   |
|      | 8437.5          | 37.8                 | 12.7        | 50.5                   | 74.0           | -23.5       | Peak     | Horizontal   |
| *    | 8650.0          | 37.1                 | 13.7        | 50.8                   | 68.2           | -17.4       | Peak     | Horizontal   |
|      | 7485.5          | 38.1                 | 11.8        | 49.9                   | 74.0           | -24.1       | Peak     | Vertical     |
| *    | 7995.5          | 37.7                 | 12.5        | 50.2                   | 68.2           | -18.0       | Peak     | Vertical     |
|      | 8497.0          | 38.1                 | 12.8        | 50.9                   | 74.0           | -23.1       | Peak     | Vertical     |
| *    | 8667.0          | 36.9                 | 13.8        | 50.7                   | 68.2           | -17.5       | 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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11ac-VHT20 - Ant 0 + 1 + 2 + 3<br>(Non Beam-Forming mode)                                                                                                                     | Test Channel:     | 140                        |
| 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 |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 7358.0          | 38.2                 | 11.9        | 50.1                   | 74.0           | -23.9       | Peak     | Horizontal   |
| *    | 7978.5          | 38.7                 | 12.4        | 51.1                   | 68.2           | -17.1       | Peak     | Horizontal   |
|      | 8165.5          | 38.7                 | 12.4        | 51.1                   | 74.0           | -22.9       | Peak     | Horizontal   |
| *    | 8607.5          | 37.6                 | 13.4        | 51.0                   | 68.2           | -17.2       | Peak     | Horizontal   |
|      | 7596.0          | 38.0                 | 11.8        | 49.8                   | 74.0           | -24.2       | Peak     | Vertical     |
| *    | 7953.0          | 38.5                 | 12.5        | 51.0                   | 68.2           | -17.2       | Peak     | Vertical     |
|      | 8429.0          | 38.2                 | 12.7        | 50.9                   | 74.0           | -23.1       | Peak     | Vertical     |
| *    | 8658.5          | 36.3                 | 13.7        | 50.0                   | 68.2           | -18.2       | 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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11ac-VHT20 - Ant 0 + 1 + 2 + 3<br>(Non Beam-Forming mode)                                                                                                                     | Test Channel:     | 144                        |
| 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          | 38.8                 | 11.7        | 50.5                   | 74.0           | -23.5       | Peak     | Horizontal   |
| *    | 7902.0          | 38.0                 | 12.1        | 50.1                   | 68.2           | -18.1       | Peak     | Horizontal   |
|      | 8148.5          | 38.6                 | 12.5        | 51.1                   | 74.0           | -22.9       | Peak     | Horizontal   |
| *    | 8777.5          | 37.3                 | 14.1        | 51.4                   | 68.2           | -16.8       | Peak     | Horizontal   |
|      | 7596.0          | 38.8                 | 11.8        | 50.6                   | 74.0           | -23.4       | Peak     | Vertical     |
| *    | 8004.0          | 37.6                 | 12.5        | 50.1                   | 68.2           | -18.1       | Peak     | Vertical     |
|      | 8191.0          | 38.2                 | 12.4        | 50.6                   | 74.0           | -23.4       | Peak     | Vertical     |
| *    | 8760.5          | 36.9                 | 14.2        | 51.1                   | 68.2           | -17.1       | 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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11ac-VHT40 - Ant 0 + 1 + 2 + 3<br>(Non Beam-Forming mode)                                                                                                                     | Test Channel:     | 54                         |
| 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 |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 7664.0          | 38.4                 | 11.4        | 49.8                   | 74.0           | -24.2       | Peak     | Horizontal   |
| *    | 7859.5          | 37.3                 | 12.0        | 49.3                   | 68.2           | -18.9       | Peak     | Horizontal   |
|      | 8293.0          | 37.9                 | 12.1        | 50.0                   | 74.0           | -24.0       | Peak     | Horizontal   |
| *    | 8743.5          | 36.7                 | 14.1        | 50.8                   | 68.2           | -17.4       | Peak     | Horizontal   |
|      | 7494.0          | 37.6                 | 11.8        | 49.4                   | 74.0           | -24.6       | Peak     | Vertical     |
| *    | 7927.5          | 38.1                 | 12.4        | 50.5                   | 68.2           | -17.7       | Peak     | Vertical     |
|      | 8395.0          | 38.1                 | 12.4        | 50.5                   | 74.0           | -23.5       | Peak     | Vertical     |
| *    | 8658.5          | 37.0                 | 13.7        | 50.7                   | 68.2           | -17.5       | 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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11ac-VHT40 - Ant 0 + 1 + 2 + 3<br>(Non Beam-Forming mode)                                                                                                                     | Test Channel:     | 62                         |
| 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 |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 7366.5          | 38.4                 | 11.9        | 50.3                   | 74.0           | -23.7       | Peak     | Horizontal   |
| *    | 7919.0          | 37.3                 | 12.3        | 49.6                   | 68.2           | -18.6       | Peak     | Horizontal   |
|      | 8140.0          | 38.1                 | 12.4        | 50.5                   | 74.0           | -23.5       | Peak     | Horizontal   |
| *    | 8624.5          | 36.5                 | 13.5        | 50.0                   | 68.2           | -18.2       | Peak     | Horizontal   |
|      | 7647.0          | 38.1                 | 11.4        | 49.5                   | 74.0           | -24.5       | Peak     | Vertical     |
| *    | 7876.5          | 37.2                 | 12.1        | 49.3                   | 68.2           | -18.9       | Peak     | Vertical     |
|      | 8395.0          | 37.2                 | 12.4        | 49.6                   | 74.0           | -24.4       | Peak     | Vertical     |
| *    | 8786.0          | 36.4                 | 14.1        | 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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11ac-VHT40 - Ant 0 + 1 + 2 + 3<br>(Non Beam-Forming mode)                                                                                                                     | Test Channel:     | 102                        |
| 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          | 37.5                 | 11.9        | 49.4                   | 74.0           | -24.6       | Peak     | Horizontal   |
| *    | 7893.5          | 38.6                 | 12.1        | 50.7                   | 68.2           | -17.5       | Peak     | Horizontal   |
|      | 8301.5          | 38.3                 | 12.2        | 50.5                   | 74.0           | -23.5       | Peak     | Horizontal   |
| *    | 8701.0          | 36.9                 | 14.0        | 50.9                   | 68.2           | -17.3       | Peak     | Horizontal   |
|      | 7715.0          | 39.3                 | 11.4        | 50.7                   | 74.0           | -23.3       | Peak     | Vertical     |
| *    | 7995.5          | 38.6                 | 12.5        | 51.1                   | 68.2           | -17.1       | Peak     | Vertical     |
|      | 8182.5          | 38.3                 | 12.4        | 50.7                   | 74.0           | -23.3       | Peak     | Vertical     |
| *    | 8701.0          | 36.9                 | 14.0        | 50.9                   | 68.2           | -17.3       | 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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11ac-VHT40 - Ant 0 + 1 + 2 + 3<br>(Non Beam-Forming mode)                                                                                                                     | Test Channel:     | 118                        |
| 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 |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 7528.0          | 37.7                 | 11.8        | 49.5                   | 74.0           | -24.5       | Peak     | Horizontal   |
| *    | 7961.5          | 38.3                 | 12.4        | 50.7                   | 68.2           | -17.5       | Peak     | Horizontal   |
|      | 8335.5          | 37.7                 | 12.2        | 49.9                   | 74.0           | -24.1       | Peak     | Horizontal   |
| *    | 8709.5          | 36.7                 | 13.9        | 50.6                   | 68.2           | -17.6       | Peak     | Horizontal   |
|      | 7451.5          | 38.2                 | 12.0        | 50.2                   | 74.0           | -23.8       | Peak     | Vertical     |
| *    | 7927.5          | 37.6                 | 12.4        | 50.0                   | 68.2           | -18.2       | Peak     | Vertical     |
|      | 8310.0          | 38.0                 | 12.2        | 50.2                   | 74.0           | -23.8       | Peak     | Vertical     |
| *    | 8854.0          | 36.0                 | 14.4        | 50.4                   | 68.2           | -17.8       | 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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11ac-VHT40 - Ant 0 + 1 + 2 + 3<br>(Non Beam-Forming mode)                                                                                                                     | Test Channel:     | 134                        |
| 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 |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 7672.5          | 38.6                 | 11.5        | 50.1                   | 74.0           | -23.9       | Peak     | Horizontal   |
| *    | 7927.5          | 39.0                 | 12.4        | 51.4                   | 68.2           | -16.8       | Peak     | Horizontal   |
|      | 8429.0          | 37.8                 | 12.7        | 50.5                   | 74.0           | -23.5       | Peak     | Horizontal   |
| *    | 8701.0          | 38.0                 | 14.0        | 52.0                   | 68.2           | -16.2       | Peak     | Horizontal   |
|      | 7434.5          | 37.4                 | 11.9        | 49.3                   | 74.0           | -24.7       | Peak     | Vertical     |
| *    | 7944.5          | 37.5                 | 12.5        | 50.0                   | 68.2           | -18.2       | Peak     | Vertical     |
|      | 8174.0          | 37.9                 | 12.4        | 50.3                   | 74.0           | -23.7       | Peak     | Vertical     |
| *    | 8531.0          | 37.4                 | 13.0        | 50.4                   | 68.2           | -17.8       | 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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11ac-VHT40 - Ant 0 + 1 + 2 + 3<br>(Non Beam-Forming mode)                                                                                                                     | Test Channel:     | 142                        |
| 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          | 38.2                 | 11.8        | 50.0                   | 74.0           | -24.0       | Peak     | Horizontal   |
| *    | 7927.5          | 37.8                 | 12.4        | 50.2                   | 68.2           | -18.0       | Peak     | Horizontal   |
|      | 8089.0          | 37.8                 | 12.7        | 50.5                   | 74.0           | -23.5       | Peak     | Horizontal   |
| *    | 8862.5          | 37.0                 | 14.4        | 51.4                   | 68.2           | -16.8       | Peak     | Horizontal   |
|      | 7545.0          | 36.8                 | 11.7        | 48.5                   | 74.0           | -25.5       | Peak     | Vertical     |
| *    | 7910.5          | 38.3                 | 12.2        | 50.5                   | 68.2           | -17.7       | Peak     | Vertical     |
|      | 8480.0          | 37.7                 | 12.8        | 50.5                   | 74.0           | -23.5       | Peak     | Vertical     |
| *    | 8658.5          | 36.5                 | 13.7        | 50.2                   | 68.2           | -18.0       | 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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11ac-VHT80 - Ant 0 + 1 + 2 + 3<br>(Non Beam-Forming mode)                                                                                                                     | Test Channel:     | 58                         |
| 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          | 38.3                 | 11.6        | 49.9                   | 74.0           | -24.1       | Peak     | Horizontal   |
| *    | 7936.0          | 38.1                 | 12.5        | 50.6                   | 68.2           | -17.6       | Peak     | Horizontal   |
|      | 8157.0          | 38.0                 | 12.5        | 50.5                   | 74.0           | -23.5       | Peak     | Horizontal   |
| *    | 8786.0          | 37.6                 | 14.1        | 51.7                   | 68.2           | -16.5       | Peak     | Horizontal   |
|      | 7417.5          | 38.1                 | 11.8        | 49.9                   | 74.0           | -24.1       | Peak     | Vertical     |
| *    | 7978.5          | 38.1                 | 12.4        | 50.5                   | 68.2           | -17.7       | Peak     | Vertical     |
|      | 8420.5          | 38.0                 | 12.5        | 50.5                   | 74.0           | -23.5       | Peak     | Vertical     |
| *    | 8650.0          | 36.3                 | 13.7        | 50.0                   | 68.2           | -18.2       | 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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11ac-VHT80 - Ant 0 + 1 + 2 + 3<br>(Non Beam-Forming mode)                                                                                                                     | Test Channel:     | 106                        |
| 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          | 37.3                 | 11.9        | 49.2                   | 74.0           | -24.8       | Peak     | Horizontal   |
| *    | 7953.0          | 37.1                 | 12.5        | 49.6                   | 68.2           | -18.6       | Peak     | Horizontal   |
|      | 8267.5          | 37.8                 | 12.3        | 50.1                   | 74.0           | -23.9       | Peak     | Horizontal   |
| *    | 8769.0          | 36.9                 | 14.2        | 51.1                   | 68.2           | -17.1       | Peak     | Horizontal   |
|      | 7451.5          | 39.2                 | 12.0        | 51.2                   | 74.0           | -22.8       | Peak     | Vertical     |
| *    | 7970.0          | 38.4                 | 12.4        | 50.8                   | 68.2           | -17.4       | Peak     | Vertical     |
|      | 8140.0          | 37.8                 | 12.4        | 50.2                   | 74.0           | -23.8       | Peak     | Vertical     |
| *    | 8828.5          | 36.8                 | 14.3        | 51.1                   | 68.2           | -17.1       | 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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11ac-VHT80 - Ant 0 + 1 + 2 + 3<br>(Non Beam-Forming mode)                                                                                                                     | Test Channel:     | 122                        |
| 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 |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 7451.5          | 37.9                 | 12.0        | 49.9                   | 74.0           | -24.1       | Peak     | Horizontal   |
| *    | 8021.0          | 39.1                 | 12.6        | 51.7                   | 68.2           | -16.5       | Peak     | Horizontal   |
|      | 8378.0          | 38.3                 | 12.3        | 50.6                   | 74.0           | -23.4       | Peak     | Horizontal   |
| *    | 8616.0          | 37.3                 | 13.5        | 50.8                   | 68.2           | -17.4       | Peak     | Horizontal   |
|      | 7570.5          | 35.6                 | 11.7        | 47.3                   | 74.0           | -26.7       | Peak     | Vertical     |
| *    | 7808.5          | 36.9                 | 11.7        | 48.6                   | 68.2           | -19.6       | Peak     | Vertical     |
|      | 8182.5          | 38.2                 | 12.4        | 50.6                   | 74.0           | -23.4       | Peak     | Vertical     |
| *    | 8658.5          | 35.2                 | 13.7        | 48.9                   | 68.2           | -19.3       | 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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11ac-VHT80 - Ant 0 + 1 + 2 + 3<br>(Non Beam-Forming mode)                                                                                                                     | Test Channel:     | 138                        |
| 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 |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 7307.0          | 37.9                 | 11.7        | 49.6                   | 74.0           | -24.4       | Peak     | Horizontal   |
| *    | 7970.0          | 38.9                 | 12.4        | 51.3                   | 68.2           | -16.9       | Peak     | Horizontal   |
|      | 8420.5          | 37.9                 | 12.5        | 50.4                   | 74.0           | -23.6       | Peak     | Horizontal   |
| *    | 8803.0          | 37.8                 | 14.2        | 52.0                   | 68.2           | -16.2       | Peak     | Horizontal   |
|      | 7706.5          | 39.2                 | 11.6        | 50.8                   | 74.0           | -23.2       | Peak     | Vertical     |
| *    | 7970.0          | 38.3                 | 12.4        | 50.7                   | 68.2           | -17.5       | Peak     | Vertical     |
|      | 8276.0          | 38.0                 | 12.3        | 50.3                   | 74.0           | -23.7       | Peak     | Vertical     |
| *    | 8624.5          | 36.9                 | 13.5        | 50.4                   | 68.2           | -17.8       | 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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11ac-VHT80+80 - Ant 0 + 1 + 2<br>+ 3 (Non Beam-Forming mode)                                                                                                                  | Test Channel:     | 42+58                      |
| 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 |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
| *    | 7052.0          | 46.3                 | 10.9        | 57.2                   | 68.2           | -11.0       | Peak     | Horizontal   |
|      | 8072.0          | 38.9                 | 12.5        | 51.4                   | 74.0           | -22.6       | Peak     | Horizontal   |
| *    | 9177.0          | 35.8                 | 15.4        | 51.2                   | 74.0           | -22.8       | Peak     | Horizontal   |
|      | 10528.5         | 36.8                 | 17.7        | 54.5                   | 68.2           | -13.7       | Peak     | Horizontal   |
| *    | 7052.0          | 54.6                 | 10.9        | 65.5                   | 68.2           | -2.7        | Peak     | Vertical     |
|      | 7706.5          | 36.4                 | 11.6        | 48.0                   | 74.0           | -26.0       | Peak     | Vertical     |
| *    | 9364.0          | 36.6                 | 16.0        | 52.6                   | 74.0           | -21.4       | Peak     | Vertical     |
|      | 10579.5         | 39.6                 | 17.6        | 57.2                   | 68.2           | -11.0       | 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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11ac-VHT80+80 - Ant 0 + 1 + 2<br>+ 3 (Non Beam-Forming mode)                                                                                                                  | Test Channel:     | 106+122                    |
| 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          | 37.9                 | 11.8        | 49.7                   | 74.0           | -24.3       | Peak     | Horizontal   |
|      | 8233.5          | 38.4                 | 12.3        | 50.7                   | 74.0           | -23.3       | Peak     | Horizontal   |
| *    | 8922.0          | 38.2                 | 14.3        | 52.5                   | 68.2           | -15.7       | Peak     | Horizontal   |
| *    | 9763.5          | 36.6                 | 16.7        | 53.3                   | 68.2           | -14.9       | Peak     | Horizontal   |
| *    | 7162.5          | 37.4                 | 11.5        | 48.9                   | 68.2           | -19.3       | Peak     | Vertical     |
|      | 7477.0          | 41.2                 | 11.7        | 52.9                   | 74.0           | -21.1       | Peak     | Vertical     |
|      | 7479.9          | 38.1                 | 11.8        | 49.9                   | 54.0           | -4.1        | Average  | Vertical     |
| *    | 8879.5          | 37.4                 | 14.2        | 51.6                   | 68.2           | -16.6       | Peak     | Vertical     |
|      | 11217.0         | 39.0                 | 17.4        | 56.4                   | 74.0           | -17.6       | Peak     | Vertical     |
|      | 11219.9         | 36.1                 | 17.4        | 53.5                   | 54.0           | -0.5        | Average  | 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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11ax-HE20 - Ant 0 + 1 + 2 + 3<br>(Non Beam-Forming mode)                                                                                                                      | Test Channel:     | 52                         |
| 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 |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 7451.5          | 38.0                 | 12.0        | 50.0                   | 74.0           | -24.0       | Peak     | Horizontal   |
| *    | 7910.5          | 37.8                 | 12.2        | 50.0                   | 68.2           | -18.2       | Peak     | Horizontal   |
|      | 8165.5          | 38.0                 | 12.4        | 50.4                   | 74.0           | -23.6       | Peak     | Horizontal   |
| *    | 8701.0          | 37.7                 | 14.0        | 51.7                   | 68.2           | -16.5       | Peak     | Horizontal   |
|      | 7366.5          | 38.5                 | 11.9        | 50.4                   | 74.0           | -23.6       | Peak     | Vertical     |
| *    | 7961.5          | 38.3                 | 12.4        | 50.7                   | 68.2           | -17.5       | Peak     | Vertical     |
|      | 8369.5          | 38.2                 | 12.3        | 50.5                   | 74.0           | -23.5       | Peak     | Vertical     |
| *    | 8692.5          | 37.0                 | 14.0        | 51.0                   | 68.2           | -17.2       | 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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11ax-HE20 - Ant 0 + 1 + 2 + 3<br>(Non Beam-Forming mode)                                                                                                                      | Test Channel:     | 60                         |
| 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 |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 7613.0          | 37.8                 | 11.8        | 49.6                   | 74.0           | -24.4       | Peak     | Horizontal   |
| *    | 7953.0          | 37.2                 | 12.5        | 49.7                   | 68.2           | -18.5       | Peak     | Horizontal   |
|      | 8480.0          | 36.9                 | 12.8        | 49.7                   | 74.0           | -24.3       | Peak     | Horizontal   |
| *    | 8709.5          | 36.8                 | 13.9        | 50.7                   | 68.2           | -17.5       | Peak     | Horizontal   |
|      | 7613.0          | 37.9                 | 11.8        | 49.7                   | 74.0           | -24.3       | Peak     | Vertical     |
| *    | 7885.0          | 36.7                 | 12.1        | 48.8                   | 68.2           | -19.4       | Peak     | Vertical     |
|      | 8361.0          | 37.4                 | 12.4        | 49.8                   | 74.0           | -24.2       | Peak     | Vertical     |
| *    | 8624.5          | 37.3                 | 13.5        | 50.8                   | 68.2           | -17.4       | 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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11ax-HE20 - Ant 0 + 1 + 2 + 3<br>(Non Beam-Forming mode)                                                                                                                      | Test Channel:     | 64                         |
| 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 |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 7698.0          | 39.2                 | 11.7        | 50.9                   | 74.0           | -23.1       | Peak     | Horizontal   |
| *    | 7944.5          | 37.8                 | 12.5        | 50.3                   | 68.2           | -17.9       | Peak     | Horizontal   |
|      | 8497.0          | 37.9                 | 12.8        | 50.7                   | 74.0           | -23.3       | Peak     | Horizontal   |
| *    | 8956.0          | 38.0                 | 14.2        | 52.2                   | 68.2           | -16.0       | Peak     | Horizontal   |
|      | 7400.5          | 37.2                 | 11.8        | 49.0                   | 74.0           | -25.0       | Peak     | Vertical     |
| *    | 7834.0          | 38.3                 | 11.9        | 50.2                   | 68.2           | -18.0       | Peak     | Vertical     |
|      | 8063.5          | 39.5                 | 12.6        | 52.1                   | 74.0           | -21.9       | Peak     | Vertical     |
| *    | 8692.5          | 37.7                 | 14.0        | 51.7                   | 68.2           | -16.5       | 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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11ax-HE20 - Ant 0 + 1 + 2 + 3<br>(Non Beam-Forming mode)                                                                                                                      | Test Channel:     | 100                        |
| 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 |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 7349.5          | 37.9                 | 11.9        | 49.8                   | 74.0           | -24.2       | Peak     | Horizontal   |
| *    | 7902.0          | 38.9                 | 12.1        | 51.0                   | 68.2           | -17.2       | Peak     | Horizontal   |
|      | 8386.5          | 37.2                 | 12.4        | 49.6                   | 74.0           | -24.4       | Peak     | Horizontal   |
| *    | 8752.0          | 37.1                 | 14.2        | 51.3                   | 68.2           | -16.9       | Peak     | Horizontal   |
|      | 7485.5          | 38.3                 | 11.8        | 50.1                   | 74.0           | -23.9       | Peak     | Vertical     |
| *    | 7876.5          | 36.9                 | 12.1        | 49.0                   | 68.2           | -19.2       | Peak     | Vertical     |
|      | 8165.5          | 37.7                 | 12.4        | 50.1                   | 74.0           | -23.9       | Peak     | Vertical     |
| *    | 8701.0          | 36.8                 | 14.0        | 50.8                   | 68.2           | -17.4       | 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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11ax-HE20 - Ant 0 + 1 + 2 + 3<br>(Non Beam-Forming mode)                                                                                                                      | Test Channel:     | 120                        |
| 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          | 38.5                 | 11.9        | 50.4                   | 74.0           | -23.6       | Peak     | Horizontal   |
|      | 7995.5          | 38.5                 | 12.5        | 51.0                   | 68.2           | -17.2       | Peak     | Horizontal   |
|      | 8157.0          | 38.2                 | 12.5        | 50.7                   | 74.0           | -23.3       | Peak     | Horizontal   |
| *    | 8769.0          | 37.4                 | 14.2        | 51.6                   | 68.2           | -16.6       | Peak     | Horizontal   |
|      | 7375.0          | 39.1                 | 11.9        | 51.0                   | 74.0           | -23.0       | Peak     | Vertical     |
| *    | 7953.0          | 38.4                 | 12.5        | 50.9                   | 68.2           | -17.3       | Peak     | Vertical     |
|      | 8480.0          | 38.4                 | 12.8        | 51.2                   | 74.0           | -22.8       | Peak     | Vertical     |
| *    | 8760.5          | 37.2                 | 14.2        | 51.4                   | 68.2           | -16.8       | 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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11ax-HE20 - Ant 0 + 1 + 2 + 3<br>(Non Beam-Forming mode)                                                                                                                      | Test Channel:     | 140                        |
| 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 |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 7366.5          | 37.9                 | 11.9        | 49.8                   | 74.0           | -24.2       | Peak     | Horizontal   |
| *    | 7910.5          | 37.7                 | 12.2        | 49.9                   | 68.2           | -18.3       | Peak     | Horizontal   |
|      | 8140.0          | 38.1                 | 12.4        | 50.5                   | 74.0           | -23.5       | Peak     | Horizontal   |
| *    | 8828.5          | 37.2                 | 14.3        | 51.5                   | 68.2           | -16.7       | Peak     | Horizontal   |
|      | 7698.0          | 38.8                 | 11.7        | 50.5                   | 74.0           | -23.5       | Peak     | Vertical     |
| *    | 7919.0          | 38.2                 | 12.3        | 50.5                   | 68.2           | -17.7       | Peak     | Vertical     |
|      | 8403.5          | 37.5                 | 12.4        | 49.9                   | 74.0           | -24.1       | Peak     | Vertical     |
| *    | 8624.5          | 36.9                 | 13.5        | 50.4                   | 68.2           | -17.8       | 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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11ax-HE20 - Ant 0 + 1 + 2 + 3<br>(Non Beam-Forming mode)                                                                                                                      | Test Channel:     | 144                        |
| 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          | 37.4                 | 11.8        | 49.2                   | 74.0           | -24.8       | Peak     | Horizontal   |
| *    | 7944.5          | 37.2                 | 12.5        | 49.7                   | 68.2           | -18.5       | Peak     | Horizontal   |
|      | 8420.5          | 37.9                 | 12.5        | 50.4                   | 74.0           | -23.6       | Peak     | Horizontal   |
| *    | 8658.5          | 37.0                 | 13.7        | 50.7                   | 68.2           | -17.5       | Peak     | Horizontal   |
|      | 7545.0          | 37.2                 | 11.7        | 48.9                   | 74.0           | -25.1       | Peak     | Vertical     |
| *    | 7859.5          | 37.2                 | 12.0        | 49.2                   | 68.2           | -19.0       | Peak     | Vertical     |
|      | 8395.0          | 38.5                 | 12.4        | 50.9                   | 74.0           | -23.1       | Peak     | Vertical     |
| *    | 8760.5          | 36.7                 | 14.2        | 50.9                   | 68.2           | -17.3       | 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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11ax-HE40 - Ant 0 + 1 + 2 + 3<br>(Non Beam-Forming mode)                                                                                                                      | Test Channel:     | 54                         |
| 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 |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 7392.0          | 37.9                 | 11.8        | 49.7                   | 74.0           | -24.3       | Peak     | Horizontal   |
| *    | 8004.0          | 38.0                 | 12.5        | 50.5                   | 68.2           | -17.7       | Peak     | Horizontal   |
|      | 8471.5          | 37.2                 | 12.7        | 49.9                   | 74.0           | -24.1       | Peak     | Horizontal   |
| *    | 8582.0          | 38.0                 | 13.2        | 51.2                   | 68.2           | -17.0       | Peak     | Horizontal   |
|      | 7409.0          | 37.8                 | 11.8        | 49.6                   | 74.0           | -24.4       | Peak     | Vertical     |
| *    | 7817.0          | 37.7                 | 11.8        | 49.5                   | 68.2           | -18.7       | Peak     | Vertical     |
|      | 8114.5          | 38.2                 | 12.6        | 50.8                   | 74.0           | -23.2       | Peak     | Vertical     |
| *    | 8701.0          | 37.7                 | 14.0        | 51.7                   | 68.2           | -16.5       | 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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11ax-HE40 - Ant 0 + 1 + 2 + 3<br>(Non Beam-Forming mode)                                                                                                                      | Test Channel:     | 62                         |
| 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 |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 7579.0          | 36.7                 | 11.6        | 48.3                   | 74.0           | -25.7       | Peak     | Horizontal   |
| *    | 7842.5          | 36.2                 | 11.9        | 48.1                   | 68.2           | -20.1       | Peak     | Horizontal   |
|      | 8131.5          | 36.9                 | 12.5        | 49.4                   | 74.0           | -24.6       | Peak     | Horizontal   |
| *    | 8692.5          | 35.6                 | 14.0        | 49.6                   | 68.2           | -18.6       | Peak     | Horizontal   |
|      | 7494.0          | 37.5                 | 11.8        | 49.3                   | 74.0           | -24.7       | Peak     | Vertical     |
| *    | 7885.0          | 37.0                 | 12.1        | 49.1                   | 68.2           | -19.1       | Peak     | Vertical     |
|      | 8463.0          | 37.6                 | 12.5        | 50.1                   | 74.0           | -23.9       | Peak     | Vertical     |
| *    | 8675.5          | 36.6                 | 13.8        | 50.4                   | 68.2           | -17.8       | 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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11ax-HE40 - Ant 0 + 1 + 2 + 3<br>(Non Beam-Forming mode)                                                                                                                      | Test Channel:     | 102                        |
| 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          | 37.5                 | 11.8        | 49.3                   | 74.0           | -24.7       | Peak     | Horizontal   |
| *    | 7919.0          | 36.9                 | 12.3        | 49.2                   | 68.2           | -19.0       | Peak     | Horizontal   |
|      | 8225.0          | 37.5                 | 12.4        | 49.9                   | 74.0           | -24.1       | Peak     | Horizontal   |
| *    | 8726.5          | 37.2                 | 13.9        | 51.1                   | 68.2           | -17.1       | Peak     | Horizontal   |
|      | 7485.5          | 37.5                 | 11.8        | 49.3                   | 74.0           | -24.7       | Peak     | Vertical     |
| *    | 7893.5          | 36.8                 | 12.1        | 48.9                   | 68.2           | -19.3       | Peak     | Vertical     |
|      | 8242.0          | 37.7                 | 12.2        | 49.9                   | 74.0           | -24.1       | Peak     | Vertical     |
| *    | 8769.0          | 37.3                 | 14.2        | 51.5                   | 68.2           | -16.7       | 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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11ax-HE40 - Ant 0 + 1 + 2 + 3<br>(Non Beam-Forming mode)                                                                                                                      | Test Channel:     | 118                        |
| 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          | 37.7                 | 11.6        | 49.3                   | 74.0           | -24.7       | Peak     | Horizontal   |
| *    | 7902.0          | 36.8                 | 12.1        | 48.9                   | 68.2           | -19.3       | Peak     | Horizontal   |
|      | 8157.0          | 38.0                 | 12.5        | 50.5                   | 74.0           | -23.5       | Peak     | Horizontal   |
| *    | 8692.5          | 38.3                 | 14.0        | 52.3                   | 68.2           | -15.9       | Peak     | Horizontal   |
|      | 7545.0          | 37.5                 | 11.7        | 49.2                   | 74.0           | -24.8       | Peak     | Vertical     |
| *    | 7817.0          | 37.9                 | 11.8        | 49.7                   | 68.2           | -18.5       | Peak     | Vertical     |
|      | 8352.5          | 37.6                 | 12.3        | 49.9                   | 74.0           | -24.1       | Peak     | Vertical     |
| *    | 8956.0          | 37.6                 | 14.2        | 51.8                   | 68.2           | -16.4       | 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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11ax-HE40 - Ant 0 + 1 + 2 + 3<br>(Non Beam-Forming mode)                                                                                                                      | Test Channel:     | 134                        |
| 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 |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 7383.5          | 38.2                 | 11.8        | 50.0                   | 74.0           | -24.0       | Peak     | Horizontal   |
| *    | 7851.0          | 36.7                 | 11.9        | 48.6                   | 68.2           | -19.6       | Peak     | Horizontal   |
|      | 8165.5          | 36.4                 | 12.4        | 48.8                   | 74.0           | -25.2       | Peak     | Horizontal   |
| *    | 8658.5          | 37.1                 | 13.7        | 50.8                   | 68.2           | -17.4       | Peak     | Horizontal   |
|      | 7698.0          | 37.8                 | 11.7        | 49.5                   | 74.0           | -24.5       | Peak     | Vertical     |
| *    | 7944.5          | 37.4                 | 12.5        | 49.9                   | 68.2           | -18.3       | Peak     | Vertical     |
|      | 8335.5          | 38.6                 | 12.2        | 50.8                   | 74.0           | -23.2       | Peak     | Vertical     |
| *    | 8641.5          | 37.8                 | 13.6        | 51.4                   | 68.2           | -16.8       | 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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11ax-HE40 - Ant 0 + 1 + 2 + 3<br>(Non Beam-Forming mode)                                                                                                                      | Test Channel:     | 142                        |
| 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 |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 7630.0          | 38.0                 | 11.5        | 49.5                   | 74.0           | -24.5       | Peak     | Horizontal   |
| *    | 7842.5          | 37.7                 | 11.9        | 49.6                   | 68.2           | -18.6       | Peak     | Horizontal   |
|      | 8310.0          | 38.4                 | 12.2        | 50.6                   | 74.0           | -23.4       | Peak     | Horizontal   |
| *    | 8658.5          | 36.7                 | 13.7        | 50.4                   | 68.2           | -17.8       | Peak     | Horizontal   |
|      | 7468.5          | 38.0                 | 11.8        | 49.8                   | 74.0           | -24.2       | Peak     | Vertical     |
| *    | 7859.5          | 38.9                 | 12.0        | 50.9                   | 68.2           | -17.3       | Peak     | Vertical     |
|      | 8089.0          | 38.1                 | 12.7        | 50.8                   | 74.0           | -23.2       | Peak     | Vertical     |
| *    | 8667.0          | 37.0                 | 13.8        | 50.8                   | 68.2           | -17.4       | 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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11ax-HE80 - Ant 0 + 1 + 2 + 3<br>(Non Beam-Forming mode)                                                                                                                      | Test Channel:     | 58                         |
| 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          | 38.1                 | 11.9        | 50.0                   | 74.0           | -24.0       | Peak     | Horizontal   |
| *    | 7978.5          | 38.1                 | 12.4        | 50.5                   | 68.2           | -17.7       | Peak     | Horizontal   |
|      | 8148.5          | 38.5                 | 12.5        | 51.0                   | 74.0           | -23.0       | Peak     | Horizontal   |
| *    | 8726.5          | 37.2                 | 13.9        | 51.1                   | 68.2           | -17.1       | Peak     | Horizontal   |
|      | 7613.0          | 38.9                 | 11.8        | 50.7                   | 74.0           | -23.3       | Peak     | Vertical     |
| *    | 7851.0          | 37.8                 | 11.9        | 49.7                   | 68.2           | -18.5       | Peak     | Vertical     |
|      | 8089.0          | 38.4                 | 12.7        | 51.1                   | 74.0           | -22.9       | Peak     | Vertical     |
| *    | 8794.5          | 36.8                 | 14.2        | 51.0                   | 68.2           | -17.2       | 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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11ax-HE80 - Ant 0 + 1 + 2 + 3<br>(Non Beam-Forming mode)                                                                                                                      | Test Channel:     | 106                        |
| 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 |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 7451.5          | 37.3                 | 12.0        | 49.3                   | 74.0           | -24.7       | Peak     | Horizontal   |
| *    | 7842.5          | 36.6                 | 11.9        | 48.5                   | 68.2           | -19.7       | Peak     | Horizontal   |
|      | 8386.5          | 36.9                 | 12.4        | 49.3                   | 74.0           | -24.7       | Peak     | Horizontal   |
| *    | 8701.0          | 36.3                 | 14.0        | 50.3                   | 68.2           | -17.9       | Peak     | Horizontal   |
|      | 7443.0          | 37.0                 | 12.1        | 49.1                   | 74.0           | -24.9       | Peak     | Vertical     |
| *    | 7919.0          | 39.3                 | 12.3        | 51.6                   | 68.2           | -16.6       | Peak     | Vertical     |
|      | 8420.5          | 37.5                 | 12.5        | 50.0                   | 74.0           | -24.0       | Peak     | Vertical     |
| *    | 8760.5          | 35.7                 | 14.2        | 49.9                   | 68.2           | -18.3       | 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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11ax-HE80 - Ant 0 + 1 + 2 + 3<br>(Non Beam-Forming mode)                                                                                                                      | Test Channel:     | 122                        |
| 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 |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 7366.5          | 37.4                 | 11.9        | 49.3                   | 74.0           | -24.7       | Peak     | Horizontal   |
| *    | 7961.5          | 37.5                 | 12.4        | 49.9                   | 68.2           | -18.3       | Peak     | Horizontal   |
|      | 8250.5          | 37.4                 | 12.2        | 49.6                   | 74.0           | -24.4       | Peak     | Horizontal   |
| *    | 8658.5          | 36.2                 | 13.7        | 49.9                   | 68.2           | -18.3       | Peak     | Horizontal   |
|      | 7315.5          | 38.8                 | 11.6        | 50.4                   | 74.0           | -23.6       | Peak     | Vertical     |
| *    | 7919.0          | 37.3                 | 12.3        | 49.6                   | 68.2           | -18.6       | Peak     | Vertical     |
|      | 8293.0          | 37.6                 | 12.1        | 49.7                   | 74.0           | -24.3       | Peak     | Vertical     |
| *    | 8590.5          | 37.0                 | 13.3        | 50.3                   | 68.2           | -17.9       | 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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11ax-HE80 - Ant 0 + 1 + 2 + 3<br>(Non Beam-Forming mode)                                                                                                                      | Test Channel:     | 138                        |
| 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 |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 7349.5          | 37.4                 | 11.9        | 49.3                   | 74.0           | -24.7       | Peak     | Horizontal   |
| *    | 7927.5          | 37.4                 | 12.4        | 49.8                   | 68.2           | -18.4       | Peak     | Horizontal   |
|      | 8148.5          | 37.4                 | 12.5        | 49.9                   | 74.0           | -24.1       | Peak     | Horizontal   |
| *    | 8743.5          | 37.3                 | 14.1        | 51.4                   | 68.2           | -16.8       | Peak     | Horizontal   |
|      | 7485.5          | 38.0                 | 11.8        | 49.8                   | 74.0           | -24.2       | Peak     | Vertical     |
| *    | 7885.0          | 36.9                 | 12.1        | 49.0                   | 68.2           | -19.2       | Peak     | Vertical     |
|      | 8140.0          | 38.3                 | 12.4        | 50.7                   | 74.0           | -23.3       | Peak     | Vertical     |
| *    | 8820.0          | 36.9                 | 14.3        | 51.2                   | 68.2           | -17.0       | 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                                                                                                                                                                         | Temperature       | 22 ~ 25°C               |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %               |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~ 2019/12/31 |
| Test Mode:    | 802.11ax-HE80+80 - Ant 0 + 1 + 2 + 3 (Non Beam-Forming mode)                                                                                                                      | Test Channel:     | 42+58                   |
| 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 |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
| *    | 7052.0          | 45.9                 | 10.9        | 56.8                   | 68.2           | -11.4       | Peak     | Horizontal   |
|      | 8046.5          | 38.2                 | 12.6        | 50.8                   | 74.0           | -23.2       | Peak     | Horizontal   |
| *    | 8641.5          | 37.2                 | 13.6        | 50.8                   | 68.2           | -17.4       | Peak     | Horizontal   |
|      | 9092.0          | 36.1                 | 14.8        | 50.9                   | 74.0           | -23.1       | Peak     | Horizontal   |
| *    | 7052.0          | 54.0                 | 10.9        | 64.9                   | 68.2           | -3.3        | Peak     | Vertical     |
|      | 7732.0          | 38.1                 | 11.4        | 49.5                   | 74.0           | -24.5       | Peak     | Vertical     |
|      | 8276.0          | 36.8                 | 12.3        | 49.1                   | 74.0           | -24.9       | Peak     | Vertical     |
| *    | 10579.5         | 39.4                 | 17.6        | 57.0                   | 68.2           | -11.2       | 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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/31 |
| Test Mode:    | 802.11ax-HE80+80 - Ant 0 + 1 + 2<br>+ 3 (Non Beam-Forming mode)                                                                                                                   | Test Channel:     | 106+122                    |
| 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          | 37.9                 | 11.8        | 49.7                   | 74.0           | -24.3       | Peak     | Horizontal   |
| *    | 7876.5          | 38.1                 | 12.1        | 50.2                   | 68.2           | -18.0       | Peak     | Horizontal   |
|      | 8242.0          | 37.3                 | 12.2        | 49.5                   | 74.0           | -24.5       | Peak     | Horizontal   |
| *    | 8769.0          | 36.1                 | 14.2        | 50.3                   | 68.2           | -17.9       | Peak     | Horizontal   |
|      | 7477.0          | 41.2                 | 11.7        | 52.9                   | 74.0           | -21.1       | Peak     | Vertical     |
|      | 7477.0          | 37.9                 | 11.7        | 49.6                   | 54.0           | -4.4        | Average  | Vertical     |
| *    | 7944.5          | 37.6                 | 12.5        | 50.1                   | 68.2           | -18.1       | Peak     | Vertical     |
| *    | 10588.0         | 37.6                 | 17.5        | 55.1                   | 68.2           | -13.1       | Peak     | Vertical     |
|      | 11217.0         | 38.4                 | 17.4        | 55.8                   | 74.0           | -18.2       | Peak     | Vertical     |
|      | 11219.7         | 36.0                 | 17.4        | 53.4                   | 54.0           | -0.6        | Average  | 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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11ac-VHT20 - Ant 0 + 1 + 2 + 3<br>(Beamforming Mode)                                                                                                                          | Test Channel:     | 52                         |
| 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 |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
| *    | 7120.0          | 37.7                 | 11.3        | 49.0                   | 68.2           | -19.2       | Peak     | Horizontal   |
|      | 7468.5          | 37.8                 | 11.8        | 49.6                   | 74.0           | -24.4       | Peak     | Horizontal   |
| *    | 7936.0          | 37.8                 | 12.5        | 50.3                   | 68.2           | -17.9       | Peak     | Horizontal   |
|      | 8199.5          | 37.9                 | 12.4        | 50.3                   | 74.0           | -23.7       | Peak     | Horizontal   |
| *    | 6440.0          | 39.5                 | 9.2         | 48.7                   | 68.2           | -19.5       | Peak     | Vertical     |
|      | 7477.0          | 38.0                 | 11.7        | 49.7                   | 74.0           | -24.3       | Peak     | Vertical     |
| *    | 7944.5          | 37.9                 | 12.5        | 50.4                   | 68.2           | -17.8       | Peak     | Vertical     |
|      | 8114.5          | 39.4                 | 12.6        | 52.0                   | 74.0           | -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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11ac-VHT20 - Ant 0 + 1 + 2 + 3<br>(Beamforming Mode)                                                                                                                          | Test Channel:     | 60                         |
| 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          | 38.0                 | 11.9        | 49.9                   | 74.0           | -24.1       | Peak     | Horizontal   |
|      | 8284.5          | 37.7                 | 12.2        | 49.9                   | 74.0           | -24.1       | Peak     | Horizontal   |
| *    | 8650.0          | 37.3                 | 13.7        | 51.0                   | 68.2           | -17.2       | Peak     | Horizontal   |
| *    | 9279.0          | 35.8                 | 15.8        | 51.6                   | 68.2           | -16.6       | Peak     | Horizontal   |
| *    | 6907.5          | 40.0                 | 10.2        | 50.2                   | 68.2           | -18.0       | Peak     | Vertical     |
|      | 7536.5          | 37.5                 | 11.8        | 49.3                   | 74.0           | -24.7       | Peak     | Vertical     |
| *    | 8004.0          | 39.2                 | 12.5        | 51.7                   | 68.2           | -16.5       | Peak     | Vertical     |
|      | 8089.0          | 37.2                 | 12.7        | 49.9                   | 74.0           | -24.1       | 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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11ac-VHT20 - Ant 0 + 1 + 2 + 3<br>(Beamforming Mode)                                                                                                                          | Test Channel:     | 64                         |
| 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 |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
| *    | 7060.5          | 39.4                 | 11.0        | 50.4                   | 68.2           | -17.8       | Peak     | Horizontal   |
|      | 7426.0          | 37.8                 | 11.8        | 49.6                   | 74.0           | -24.4       | Peak     | Horizontal   |
| *    | 7902.0          | 38.3                 | 12.1        | 50.4                   | 68.2           | -17.8       | Peak     | Horizontal   |
|      | 8165.5          | 38.2                 | 12.4        | 50.6                   | 74.0           | -23.4       | Peak     | Horizontal   |
|      | 7451.5          | 38.1                 | 12.0        | 50.1                   | 74.0           | -23.9       | Peak     | Vertical     |
|      | 8038.0          | 37.9                 | 12.6        | 50.5                   | 74.0           | -23.5       | Peak     | Vertical     |
| *    | 8786.0          | 36.6                 | 14.1        | 50.7                   | 68.2           | -17.5       | Peak     | Vertical     |
| *    | 9262.0          | 35.5                 | 15.8        | 51.3                   | 68.2           | -16.9       | 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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11ac-VHT20 - Ant 0 + 1 + 2 + 3<br>(Beamforming Mode)                                                                                                                          | Test Channel:     | 100                        |
| 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          | 36.0                 | 11.8        | 47.8                   | 74.0           | -26.2       | Peak     | Horizontal   |
| *    | 7919.0          | 38.3                 | 12.3        | 50.6                   | 68.2           | -17.6       | Peak     | Horizontal   |
|      | 8429.0          | 37.9                 | 12.7        | 50.6                   | 74.0           | -23.4       | Peak     | Horizontal   |
| *    | 8743.5          | 36.5                 | 14.1        | 50.6                   | 68.2           | -17.6       | Peak     | Horizontal   |
| *    | 7154.0          | 38.5                 | 11.3        | 49.8                   | 68.2           | -18.4       | Peak     | Vertical     |
|      | 7749.0          | 39.3                 | 11.6        | 50.9                   | 74.0           | -23.1       | Peak     | Vertical     |
|      | 8233.5          | 39.2                 | 12.3        | 51.5                   | 74.0           | -22.5       | Peak     | Vertical     |
| *    | 8794.5          | 37.6                 | 14.2        | 51.8                   | 68.2           | -16.4       | 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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11ac-VHT20 - Ant 0 + 1 + 2 + 3<br>(Beamforming Mode)                                                                                                                          | Test Channel:     | 120                        |
| 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 |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 7290.0          | 38.4                 | 11.7        | 50.1                   | 74.0           | -23.9       | Peak     | Horizontal   |
| *    | 7885.0          | 37.4                 | 12.1        | 49.5                   | 68.2           | -18.7       | Peak     | Horizontal   |
|      | 8208.0          | 38.2                 | 12.3        | 50.5                   | 74.0           | -23.5       | Peak     | Horizontal   |
| *    | 8862.5          | 35.8                 | 14.4        | 50.2                   | 68.2           | -18.0       | Peak     | Horizontal   |
| *    | 7128.5          | 38.2                 | 11.3        | 49.5                   | 68.2           | -18.7       | Peak     | Vertical     |
|      | 7375.0          | 37.7                 | 11.9        | 49.6                   | 74.0           | -24.4       | Peak     | Vertical     |
|      | 8250.5          | 38.3                 | 12.2        | 50.5                   | 74.0           | -23.5       | Peak     | Vertical     |
| *    | 8735.0          | 37.6                 | 14.0        | 51.6                   | 68.2           | -16.6       | 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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11ac-VHT20 - Ant 0 + 1 + 2 + 3<br>(Beamforming Mode)                                                                                                                          | Test Channel:     | 140                        |
| 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 |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
| *    | 7103.0          | 37.9                 | 11.3        | 49.2                   | 68.2           | -19.0       | Peak     | Horizontal   |
|      | 7443.0          | 36.6                 | 12.1        | 48.7                   | 74.0           | -25.3       | Peak     | Horizontal   |
|      | 8276.0          | 37.0                 | 12.3        | 49.3                   | 74.0           | -24.7       | Peak     | Horizontal   |
| *    | 8752.0          | 38.5                 | 14.2        | 52.7                   | 68.2           | -15.5       | Peak     | Horizontal   |
| *    | 7230.5          | 38.3                 | 11.5        | 49.8                   | 68.2           | -18.4       | Peak     | Vertical     |
|      | 7613.0          | 37.1                 | 11.8        | 48.9                   | 74.0           | -25.1       | Peak     | Vertical     |
|      | 8208.0          | 36.2                 | 12.3        | 48.5                   | 74.0           | -25.5       | Peak     | Vertical     |
| *    | 8854.0          | 34.8                 | 14.4        | 49.2                   | 68.2           | -19.0       | 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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11ac-VHT20 - Ant 0 + 1 + 2 + 3<br>(Beamforming Mode)                                                                                                                          | Test Channel:     | 144                        |
| 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          | 38.0                 | 11.9        | 49.9                   | 74.0           | -24.1       | Peak     | Horizontal   |
| *    | 7885.0          | 38.1                 | 12.1        | 50.2                   | 68.2           | -18.0       | Peak     | Horizontal   |
|      | 8480.0          | 39.2                 | 12.8        | 52.0                   | 74.0           | -22.0       | Peak     | Horizontal   |
| *    | 8862.5          | 37.5                 | 14.4        | 51.9                   | 68.2           | -16.3       | Peak     | Horizontal   |
|      | 7502.5          | 37.3                 | 11.9        | 49.2                   | 74.0           | -24.8       | Peak     | Vertical     |
|      | 8131.5          | 37.0                 | 12.5        | 49.5                   | 74.0           | -24.5       | Peak     | Vertical     |
| *    | 8641.5          | 36.6                 | 13.6        | 50.2                   | 68.2           | -18.0       | Peak     | Vertical     |
| *    | 9296.0          | 35.8                 | 15.9        | 51.7                   | 68.2           | -16.5       | 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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11ac-VHT40 - Ant 0 + 1 + 2 + 3<br>(Beamforming Mode)                                                                                                                          | Test Channel:     | 54                         |
| 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 |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
| *    | 7222.0          | 38.5                 | 11.5        | 50.0                   | 68.2           | -18.2       | Peak     | Horizontal   |
|      | 7409.0          | 38.3                 | 11.8        | 50.1                   | 74.0           | -23.9       | Peak     | Horizontal   |
| *    | 7995.5          | 38.6                 | 12.5        | 51.1                   | 68.2           | -17.1       | Peak     | Horizontal   |
|      | 8293.0          | 38.0                 | 12.1        | 50.1                   | 74.0           | -23.9       | Peak     | Horizontal   |
| *    | 7103.0          | 37.4                 | 11.3        | 48.7                   | 68.2           | -19.5       | Peak     | Vertical     |
|      | 7460.0          | 37.3                 | 11.9        | 49.2                   | 74.0           | -24.8       | Peak     | Vertical     |
| *    | 8837.0          | 37.5                 | 14.3        | 51.8                   | 68.2           | -16.4       | Peak     | Vertical     |
|      | 11548.5         | 39.0                 | 17.4        | 56.4                   | 74.0           | -17.6       | Peak     | Vertical     |
|      | 11548.5         | 23.7                 | 17.4        | 41.1                   | 54.0           | -12.9       | Average  | 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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11ac-VHT40 - Ant 0 + 1 + 2 + 3<br>(Beamforming Mode)                                                                                                                          | Test Channel:     | 62                         |
| 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 |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
| *    | 6788.5          | 38.1                 | 9.8         | 47.9                   | 68.2           | -20.3       | Peak     | Horizontal   |
|      | 7443.0          | 38.2                 | 12.1        | 50.3                   | 74.0           | -23.7       | Peak     | Horizontal   |
| *    | 7842.5          | 36.3                 | 11.9        | 48.2                   | 68.2           | -20.0       | Peak     | Horizontal   |
|      | 8165.5          | 37.8                 | 12.4        | 50.2                   | 74.0           | -23.8       | Peak     | Horizontal   |
| *    | 7086.0          | 37.6                 | 11.3        | 48.9                   | 68.2           | -19.3       | Peak     | Vertical     |
|      | 7383.5          | 37.7                 | 11.8        | 49.5                   | 74.0           | -24.5       | Peak     | Vertical     |
| *    | 7944.5          | 37.7                 | 12.5        | 50.2                   | 68.2           | -18.0       | Peak     | Vertical     |
|      | 8225.0          | 38.0                 | 12.4        | 50.4                   | 74.0           | -23.6       | 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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11ac-VHT40 - Ant 0 + 1 + 2 + 3<br>(Beamforming Mode)                                                                                                                          | Test Channel:     | 102                        |
| 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 |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
| *    | 7137.0          | 36.7                 | 11.3        | 48.0                   | 68.2           | -20.2       | Peak     | Horizontal   |
|      | 7434.5          | 37.5                 | 11.9        | 49.4                   | 74.0           | -24.6       | Peak     | Horizontal   |
| *    | 7876.5          | 36.8                 | 12.1        | 48.9                   | 68.2           | -19.3       | Peak     | Horizontal   |
|      | 8165.5          | 38.3                 | 12.4        | 50.7                   | 74.0           | -23.3       | Peak     | Horizontal   |
| *    | 7077.5          | 38.1                 | 11.2        | 49.3                   | 68.2           | -18.9       | Peak     | Vertical     |
|      | 7451.5          | 37.6                 | 12.0        | 49.6                   | 74.0           | -24.4       | Peak     | Vertical     |
| *    | 7876.5          | 36.5                 | 12.1        | 48.6                   | 68.2           | -19.6       | Peak     | Vertical     |
|      | 8276.0          | 36.7                 | 12.3        | 49.0                   | 74.0           | -25.0       | 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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11ac-VHT40 - Ant 0 + 1 + 2 + 3<br>(Beamforming Mode)                                                                                                                          | Test Channel:     | 118                        |
| 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 |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
| *    | 7111.5          | 39.2                 | 11.3        | 50.5                   | 68.2           | -17.7       | Peak     | Horizontal   |
|      | 7485.5          | 37.7                 | 11.8        | 49.5                   | 74.0           | -24.5       | Peak     | Horizontal   |
| *    | 7868.0          | 37.8                 | 12.1        | 49.9                   | 68.2           | -18.3       | Peak     | Horizontal   |
|      | 8225.0          | 38.8                 | 12.4        | 51.2                   | 74.0           | -22.8       | Peak     | Horizontal   |
| *    | 6703.5          | 38.7                 | 9.7         | 48.4                   | 68.2           | -19.8       | Peak     | Vertical     |
|      | 7332.5          | 38.4                 | 11.7        | 50.1                   | 74.0           | -23.9       | Peak     | Vertical     |
| *    | 7893.5          | 37.8                 | 12.1        | 49.9                   | 68.2           | -18.3       | Peak     | Vertical     |
|      | 8140.0          | 38.4                 | 12.4        | 50.8                   | 74.0           | -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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11ac-VHT40 - Ant 0 + 1 + 2 + 3<br>(Beamforming Mode)                                                                                                                          | Test Channel:     | 134                        |
| 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 |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
| *    | 6525.0          | 36.2                 | 9.6         | 45.8                   | 68.2           | -22.4       | Peak     | Horizontal   |
|      | 7366.5          | 37.3                 | 11.9        | 49.2                   | 74.0           | -24.8       | Peak     | Horizontal   |
| *    | 7859.5          | 37.7                 | 12.0        | 49.7                   | 68.2           | -18.5       | Peak     | Horizontal   |
|      | 8097.5          | 38.2                 | 12.7        | 50.9                   | 74.0           | -23.1       | Peak     | Horizontal   |
| *    | 6831.0          | 37.5                 | 10.0        | 47.5                   | 68.2           | -20.7       | Peak     | Vertical     |
|      | 7256.0          | 38.2                 | 11.7        | 49.9                   | 74.0           | -24.1       | Peak     | Vertical     |
| *    | 7842.5          | 36.1                 | 11.9        | 48.0                   | 68.2           | -20.2       | Peak     | Vertical     |
|      | 8072.0          | 38.6                 | 12.5        | 51.1                   | 74.0           | -22.9       | 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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11ac-VHT40 - Ant 0 + 1 + 2 + 3<br>(Beamforming Mode)                                                                                                                          | Test Channel:     | 142                        |
| 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 |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
| *    | 6533.5          | 38.2                 | 9.5         | 47.7                   | 68.2           | -20.5       | Peak     | Horizontal   |
|      | 7332.5          | 36.0                 | 11.7        | 47.7                   | 74.0           | -26.3       | Peak     | Horizontal   |
| *    | 7995.5          | 37.9                 | 12.5        | 50.4                   | 68.2           | -17.8       | Peak     | Horizontal   |
|      | 8293.0          | 38.5                 | 12.1        | 50.6                   | 74.0           | -23.4       | Peak     | Horizontal   |
| *    | 7001.0          | 38.2                 | 10.8        | 49.0                   | 68.2           | -19.2       | Peak     | Vertical     |
|      | 7307.0          | 37.5                 | 11.7        | 49.2                   | 74.0           | -24.8       | Peak     | Vertical     |
| *    | 7859.5          | 38.4                 | 12.0        | 50.4                   | 68.2           | -17.8       | Peak     | Vertical     |
|      | 8140.0          | 38.4                 | 12.4        | 50.8                   | 74.0           | -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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11ac-VHT80 - Ant 0 + 1 + 2 + 3<br>(Beamforming Mode)                                                                                                                          | Test Channel:     | 58                         |
| 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 |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
| *    | 7205.0          | 36.9                 | 11.5        | 48.4                   | 68.2           | -19.8       | Peak     | Horizontal   |
|      | 7400.5          | 36.4                 | 11.8        | 48.2                   | 74.0           | -25.8       | Peak     | Horizontal   |
| *    | 8811.5          | 37.8                 | 14.3        | 52.1                   | 68.2           | -16.1       | Peak     | Horizontal   |
|      | 9100.5          | 36.2                 | 14.9        | 51.1                   | 74.0           | -22.9       | Peak     | Horizontal   |
| *    | 7086.0          | 37.6                 | 11.3        | 48.9                   | 68.2           | -19.3       | Peak     | Vertical     |
|      | 7358.0          | 37.6                 | 11.9        | 49.5                   | 74.0           | -24.5       | Peak     | Vertical     |
| *    | 7842.5          | 36.0                 | 11.9        | 47.9                   | 68.2           | -20.3       | Peak     | Vertical     |
|      | 8055.0          | 38.5                 | 12.6        | 51.1                   | 74.0           | -22.9       | 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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11ac-VHT80 - Ant 0 + 1 + 2 + 3<br>(Beamforming Mode)                                                                                                                          | Test Channel:     | 106                        |
| 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 |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
| *    | 7145.5          | 37.9                 | 11.3        | 49.2                   | 68.2           | -19.0       | Peak     | Horizontal   |
|      | 7358.0          | 38.4                 | 11.9        | 50.3                   | 74.0           | -23.7       | Peak     | Horizontal   |
| *    | 7936.0          | 37.3                 | 12.5        | 49.8                   | 68.2           | -18.4       | Peak     | Horizontal   |
|      | 8140.0          | 37.3                 | 12.4        | 49.7                   | 74.0           | -24.3       | Peak     | Horizontal   |
| *    | 6686.5          | 39.2                 | 9.7         | 48.9                   | 68.2           | -19.3       | Peak     | Vertical     |
|      | 7434.5          | 37.4                 | 11.9        | 49.3                   | 74.0           | -24.7       | Peak     | Vertical     |
| *    | 7842.5          | 37.2                 | 11.9        | 49.1                   | 68.2           | -19.1       | Peak     | Vertical     |
|      | 8157.0          | 38.0                 | 12.5        | 50.5                   | 74.0           | -23.5       | 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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11ac-VHT80 - Ant 0 + 1 + 2 + 3<br>(Beamforming Mode)                                                                                                                          | Test Channel:     | 122                        |
| 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 |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
| *    | 7196.5          | 37.6                 | 11.6        | 49.2                   | 68.2           | -19.0       | Peak     | Horizontal   |
|      | 7392.0          | 37.7                 | 11.8        | 49.5                   | 74.0           | -24.5       | Peak     | Horizontal   |
| *    | 7944.5          | 37.0                 | 12.5        | 49.5                   | 68.2           | -18.7       | Peak     | Horizontal   |
|      | 8463.0          | 37.4                 | 12.5        | 49.9                   | 74.0           | -24.1       | Peak     | Horizontal   |
| *    | 7001.0          | 37.2                 | 10.8        | 48.0                   | 68.2           | -20.2       | Peak     | Vertical     |
|      | 7392.0          | 37.9                 | 11.8        | 49.7                   | 74.0           | -24.3       | Peak     | Vertical     |
| *    | 7876.5          | 36.9                 | 12.1        | 49.0                   | 68.2           | -19.2       | Peak     | Vertical     |
|      | 8267.5          | 37.6                 | 12.3        | 49.9                   | 74.0           | -24.1       | 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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11ac-VHT80 - Ant 0 + 1 + 2 + 3<br>(Beamforming Mode)                                                                                                                          | Test Channel:     | 138                        |
| 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 |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
| *    | 7009.5          | 38.0                 | 10.9        | 48.9                   | 68.2           | -19.3       | Peak     | Horizontal   |
|      | 7468.5          | 38.3                 | 11.8        | 50.1                   | 74.0           | -23.9       | Peak     | Horizontal   |
| *    | 7936.0          | 38.6                 | 12.5        | 51.1                   | 68.2           | -17.1       | Peak     | Horizontal   |
|      | 8174.0          | 38.0                 | 12.4        | 50.4                   | 74.0           | -23.6       | Peak     | Horizontal   |
| *    | 7043.5          | 37.7                 | 10.9        | 48.6                   | 68.2           | -19.6       | Peak     | Vertical     |
|      | 7264.5          | 38.1                 | 11.7        | 49.8                   | 74.0           | -24.2       | Peak     | Vertical     |
| *    | 7927.5          | 38.0                 | 12.4        | 50.4                   | 68.2           | -17.8       | Peak     | Vertical     |
|      | 8208.0          | 38.4                 | 12.3        | 50.7                   | 74.0           | -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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11ac-VHT80+80 - Ant 0 + 1 + 2<br>+ 3 (Beamforming Mode)                                                                                                                       | Test Channel:     | 42+58                      |
| 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 |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
| *    | 7001.0          | 42.8                 | 10.7        | 53.5                   | 68.2           | -14.7       | Peak     | Horizontal   |
|      | 7672.5          | 33.3                 | 12.0        | 45.3                   | 74.0           | -28.7       | Peak     | Horizontal   |
| *    | 10265.0         | 33.6                 | 16.2        | 49.8                   | 68.2           | -18.4       | Peak     | Horizontal   |
|      | 11582.5         | 32.0                 | 19.8        | 51.8                   | 74.0           | -22.2       | Peak     | Horizontal   |
| *    | 7001.0          | 51.6                 | 10.7        | 62.3                   | 68.2           | -5.9        | Peak     | Vertical     |
|      | 7468.5          | 32.5                 | 12.1        | 44.6                   | 74.0           | -29.4       | Peak     | Vertical     |
| *    | 10503.0         | 33.9                 | 16.5        | 50.4                   | 68.2           | -17.8       | Peak     | Vertical     |
|      | 11472.0         | 31.0                 | 20.0        | 51.0                   | 74.0           | -23.0       | 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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11ac-VHT80+80 - Ant 0 + 1 + 2<br>+ 3 (Beamforming Mode)                                                                                                                       | Test Channel:     | 106+122                    |
| 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 |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 7570.5          | 33.6                 | 12.1        | 45.7                   | 74.0           | -28.3       | Peak     | Horizontal   |
| *    | 8735.0          | 33.0                 | 13.7        | 46.7                   | 68.2           | -21.5       | Peak     | Horizontal   |
|      | 9406.5          | 31.2                 | 14.9        | 46.1                   | 74.0           | -27.9       | Peak     | Horizontal   |
| *    | 10528.5         | 33.2                 | 16.4        | 49.6                   | 68.2           | -18.6       | Peak     | Horizontal   |
| *    | 7188.0          | 33.1                 | 11.9        | 45.0                   | 68.2           | -23.2       | Peak     | Vertical     |
|      | 7477.0          | 36.4                 | 12.2        | 48.6                   | 74.0           | -25.4       | Peak     | Vertical     |
| *    | 7936.0          | 32.9                 | 12.2        | 45.1                   | 68.2           | -23.1       | Peak     | Vertical     |
|      | 11219.9         | 34.5                 | 18.9        | 53.4                   | 74.0           | -20.6       | Peak     | Vertical     |
|      | 11219.9         | 30.3                 | 18.9        | 49.2                   | 54.0           | -4.8        | Average  | 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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11ax-HE20 - Ant 0 + 1 + 2 + 3<br>(Beamforming Mode)                                                                                                                           | Test Channel:     | 52                         |
| 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 |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
| *    | 7094.5          | 37.6                 | 11.3        | 48.9                   | 68.2           | -19.3       | Peak     | Horizontal   |
|      | 7553.5          | 37.5                 | 11.7        | 49.2                   | 74.0           | -24.8       | Peak     | Horizontal   |
| *    | 7859.5          | 37.3                 | 12.0        | 49.3                   | 68.2           | -18.9       | Peak     | Horizontal   |
|      | 8165.5          | 38.0                 | 12.4        | 50.4                   | 74.0           | -23.6       | Peak     | Horizontal   |
| *    | 7069.0          | 37.4                 | 11.0        | 48.4                   | 68.2           | -19.8       | Peak     | Vertical     |
|      | 7383.5          | 37.3                 | 11.8        | 49.1                   | 74.0           | -24.9       | Peak     | Vertical     |
| *    | 7842.5          | 37.3                 | 11.9        | 49.2                   | 68.2           | -19.0       | Peak     | Vertical     |
|      | 8276.0          | 36.8                 | 12.3        | 49.1                   | 74.0           | -24.9       | 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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11ax-HE20 - Ant 0 + 1 + 2 + 3<br>(Beamforming Mode)                                                                                                                           | Test Channel:     | 60                         |
| 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 |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
| *    | 7111.5          | 38.7                 | 11.3        | 50.0                   | 68.2           | -18.2       | Peak     | Horizontal   |
|      | 7375.0          | 37.0                 | 11.9        | 48.9                   | 74.0           | -25.1       | Peak     | Horizontal   |
| *    | 7817.0          | 38.2                 | 11.8        | 50.0                   | 68.2           | -18.2       | Peak     | Horizontal   |
|      | 8029.5          | 38.9                 | 12.6        | 51.5                   | 74.0           | -22.5       | Peak     | Horizontal   |
| *    | 7171.0          | 37.8                 | 11.6        | 49.4                   | 68.2           | -18.8       | Peak     | Vertical     |
|      | 7460.0          | 38.1                 | 11.9        | 50.0                   | 74.0           | -24.0       | Peak     | Vertical     |
| *    | 7961.5          | 37.7                 | 12.4        | 50.1                   | 68.2           | -18.1       | Peak     | Vertical     |
|      | 9126.0          | 37.2                 | 15.1        | 52.3                   | 74.0           | -21.7       | 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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11ax-HE20 - Ant 0 + 1 + 2 + 3<br>(Beamforming Mode)                                                                                                                           | Test Channel:     | 64                         |
| 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 |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
| *    | 7128.5          | 38.2                 | 11.3        | 49.5                   | 68.2           | -18.7       | Peak     | Horizontal   |
|      | 7341.0          | 38.3                 | 11.8        | 50.1                   | 74.0           | -23.9       | Peak     | Horizontal   |
| *    | 7927.5          | 37.6                 | 12.4        | 50.0                   | 68.2           | -18.2       | Peak     | Horizontal   |
|      | 8165.5          | 37.9                 | 12.4        | 50.3                   | 74.0           | -23.7       | Peak     | Horizontal   |
| *    | 6814.0          | 38.5                 | 9.8         | 48.3                   | 68.2           | -19.9       | Peak     | Vertical     |
|      | 7434.5          | 36.9                 | 11.9        | 48.8                   | 74.0           | -25.2       | Peak     | Vertical     |
| *    | 7936.0          | 37.2                 | 12.5        | 49.7                   | 68.2           | -18.5       | Peak     | Vertical     |
|      | 8140.0          | 38.4                 | 12.4        | 50.8                   | 74.0           | -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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11ax-HE20 - Ant 0 + 1 + 2 + 3<br>(Beamforming Mode)                                                                                                                           | Test Channel:     | 100                        |
| 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 |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
| *    | 6763.0          | 37.3                 | 9.9         | 47.2                   | 68.2           | -21.0       | Peak     | Horizontal   |
|      | 7349.5          | 37.7                 | 11.9        | 49.6                   | 74.0           | -24.4       | Peak     | Horizontal   |
| *    | 7961.5          | 38.3                 | 12.4        | 50.7                   | 68.2           | -17.5       | Peak     | Horizontal   |
|      | 8225.0          | 35.9                 | 12.4        | 48.3                   | 74.0           | -25.7       | Peak     | Horizontal   |
| *    | 7001.0          | 37.8                 | 10.8        | 48.6                   | 68.2           | -19.6       | Peak     | Vertical     |
|      | 7273.0          | 37.7                 | 11.7        | 49.4                   | 74.0           | -24.6       | Peak     | Vertical     |
| *    | 7995.5          | 38.4                 | 12.5        | 50.9                   | 68.2           | -17.3       | Peak     | Vertical     |
|      | 8310.0          | 36.8                 | 12.2        | 49.0                   | 74.0           | -25.0       | 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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11ax-HE20 - Ant 0 + 1 + 2 + 3<br>(Beamforming Mode)                                                                                                                           | Test Channel:     | 120                        |
| 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 |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
| *    | 7145.5          | 38.4                 | 11.3        | 49.7                   | 68.2           | -18.5       | Peak     | Horizontal   |
|      | 7366.5          | 37.3                 | 11.9        | 49.2                   | 74.0           | -24.8       | Peak     | Horizontal   |
| *    | 7868.0          | 37.3                 | 12.1        | 49.4                   | 68.2           | -18.8       | Peak     | Horizontal   |
|      | 8165.5          | 37.0                 | 12.4        | 49.4                   | 74.0           | -24.6       | Peak     | Horizontal   |
| *    | 7103.0          | 37.8                 | 11.3        | 49.1                   | 68.2           | -19.1       | Peak     | Vertical     |
|      | 7511.0          | 37.6                 | 11.9        | 49.5                   | 74.0           | -24.5       | Peak     | Vertical     |
| *    | 7953.0          | 37.5                 | 12.5        | 50.0                   | 68.2           | -18.2       | Peak     | Vertical     |
|      | 8165.5          | 38.1                 | 12.4        | 50.5                   | 74.0           | -23.5       | 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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11ax-HE20 - Ant 0 + 1 + 2 + 3<br>(Beamforming Mode)                                                                                                                           | Test Channel:     | 140                        |
| 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 |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
| *    | 6856.5          | 38.5                 | 10.1        | 48.6                   | 68.2           | -19.6       | Peak     | Horizontal   |
|      | 7324.0          | 38.1                 | 11.5        | 49.6                   | 74.0           | -24.4       | Peak     | Horizontal   |
| *    | 7808.5          | 37.8                 | 11.7        | 49.5                   | 68.2           | -18.7       | Peak     | Horizontal   |
|      | 8267.5          | 38.0                 | 12.3        | 50.3                   | 74.0           | -23.7       | Peak     | Horizontal   |
| *    | 7154.0          | 37.9                 | 11.3        | 49.2                   | 68.2           | -19.0       | Peak     | Vertical     |
|      | 7392.0          | 37.8                 | 11.8        | 49.6                   | 74.0           | -24.4       | Peak     | Vertical     |
| *    | 7808.5          | 38.0                 | 11.7        | 49.7                   | 68.2           | -18.5       | Peak     | Vertical     |
|      | 8276.0          | 37.8                 | 12.3        | 50.1                   | 74.0           | -23.9       | 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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11ax-HE20 - Ant 0 + 1 + 2 + 3<br>(Beamforming Mode)                                                                                                                           | Test Channel:     | 144                        |
| 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 |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
| *    | 7230.5          | 37.8                 | 11.5        | 49.3                   | 68.2           | -18.9       | Peak     | Horizontal   |
|      | 7604.5          | 36.6                 | 11.8        | 48.4                   | 74.0           | -25.6       | Peak     | Horizontal   |
| *    | 7842.5          | 36.4                 | 11.9        | 48.3                   | 68.2           | -19.9       | Peak     | Horizontal   |
|      | 8131.5          | 38.0                 | 12.5        | 50.5                   | 74.0           | -23.5       | Peak     | Horizontal   |
| *    | 7103.0          | 37.2                 | 11.3        | 48.5                   | 68.2           | -19.7       | Peak     | Vertical     |
|      | 7409.0          | 37.1                 | 11.8        | 48.9                   | 74.0           | -25.1       | Peak     | Vertical     |
| *    | 7978.5          | 38.6                 | 12.4        | 51.0                   | 68.2           | -17.2       | Peak     | Vertical     |
|      | 8191.0          | 37.8                 | 12.4        | 50.2                   | 74.0           | -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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11ax-HE40 - Ant 0 + 1 + 2 + 3<br>(Beamforming Mode)                                                                                                                           | Test Channel:     | 54                         |
| 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 |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
| *    | 7128.5          | 37.9                 | 11.3        | 49.2                   | 68.2           | -19.0       | Peak     | Horizontal   |
|      | 7409.0          | 38.4                 | 11.8        | 50.2                   | 74.0           | -23.8       | Peak     | Horizontal   |
| *    | 7859.5          | 38.2                 | 12.0        | 50.2                   | 68.2           | -18.0       | Peak     | Horizontal   |
|      | 8267.5          | 38.6                 | 12.3        | 50.9                   | 74.0           | -23.1       | Peak     | Horizontal   |
| *    | 7239.0          | 38.3                 | 11.5        | 49.8                   | 68.2           | -18.4       | Peak     | Vertical     |
|      | 7477.0          | 37.7                 | 11.7        | 49.4                   | 74.0           | -24.6       | Peak     | Vertical     |
| *    | 8012.5          | 39.5                 | 12.6        | 52.1                   | 68.2           | -16.1       | Peak     | Vertical     |
|      | 9100.5          | 37.3                 | 14.9        | 52.2                   | 74.0           | -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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11ax-HE40 - Ant 0 + 1 + 2 + 3<br>(Beamforming Mode)                                                                                                                           | Test Channel:     | 62                         |
| 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 |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
| *    | 7077.5          | 37.3                 | 11.2        | 48.5                   | 68.2           | -19.7       | Peak     | Horizontal   |
|      | 7417.5          | 38.9                 | 11.8        | 50.7                   | 74.0           | -23.3       | Peak     | Horizontal   |
| *    | 7987.0          | 36.2                 | 12.4        | 48.6                   | 68.2           | -19.6       | Peak     | Horizontal   |
|      | 8276.0          | 36.6                 | 12.3        | 48.9                   | 74.0           | -25.1       | Peak     | Horizontal   |
| *    | 7222.0          | 37.9                 | 11.5        | 49.4                   | 68.2           | -18.8       | Peak     | Vertical     |
|      | 7664.0          | 39.6                 | 11.4        | 51.0                   | 74.0           | -23.0       | Peak     | Vertical     |
| *    | 7961.5          | 39.0                 | 12.4        | 51.4                   | 68.2           | -16.8       | Peak     | Vertical     |
|      | 8182.5          | 38.7                 | 12.4        | 51.1                   | 74.0           | -22.9       | 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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11ax-HE40 - Ant 0 + 1 + 2 + 3<br>(Beamforming Mode)                                                                                                                           | Test Channel:     | 102                        |
| 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 |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
| *    | 7222.0          | 38.4                 | 11.5        | 49.9                   | 68.2           | -18.3       | Peak     | Horizontal   |
|      | 7494.0          | 38.5                 | 11.8        | 50.3                   | 74.0           | -23.7       | Peak     | Horizontal   |
| *    | 7919.0          | 38.7                 | 12.3        | 51.0                   | 68.2           | -17.2       | Peak     | Horizontal   |
|      | 8174.0          | 39.1                 | 12.4        | 51.5                   | 74.0           | -22.5       | Peak     | Horizontal   |
| *    | 7103.0          | 37.2                 | 11.3        | 48.5                   | 68.2           | -19.7       | Peak     | Vertical     |
|      | 7468.5          | 37.6                 | 11.8        | 49.4                   | 74.0           | -24.6       | Peak     | Vertical     |
| *    | 8021.0          | 37.5                 | 12.6        | 50.1                   | 68.2           | -18.1       | Peak     | Vertical     |
|      | 8352.5          | 38.0                 | 12.3        | 50.3                   | 74.0           | -23.7       | 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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11ax-HE40 - Ant 0 + 1 + 2 + 3<br>(Beamforming Mode)                                                                                                                           | Test Channel:     | 118                        |
| 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          | 36.4                 | 11.8        | 48.2                   | 74.0           | -25.8       | Peak     | Horizontal   |
| *    | 7808.5          | 36.3                 | 11.7        | 48.0                   | 68.2           | -20.2       | Peak     | Horizontal   |
|      | 8276.0          | 36.8                 | 12.3        | 49.1                   | 74.0           | -24.9       | Peak     | Horizontal   |
| *    | 8811.5          | 37.0                 | 14.3        | 51.3                   | 68.2           | -16.9       | Peak     | Horizontal   |
| *    | 7026.5          | 37.9                 | 10.9        | 48.8                   | 68.2           | -19.4       | Peak     | Vertical     |
|      | 7298.5          | 36.8                 | 11.7        | 48.5                   | 74.0           | -25.5       | Peak     | Vertical     |
| *    | 7859.5          | 37.6                 | 12.0        | 49.6                   | 68.2           | -18.6       | Peak     | Vertical     |
|      | 8216.5          | 37.8                 | 12.3        | 50.1                   | 74.0           | -23.9       | 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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11ax-HE40 - Ant 0 + 1 + 2 + 3<br>(Beamforming Mode)                                                                                                                           | Test Channel:     | 134                        |
| 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 |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 7375.0          | 37.7                 | 11.9        | 49.6                   | 74.0           | -24.4       | Peak     | Horizontal   |
| *    | 7842.5          | 36.1                 | 11.9        | 48.0                   | 68.2           | -20.2       | Peak     | Horizontal   |
|      | 8267.5          | 37.3                 | 12.3        | 49.6                   | 74.0           | -24.4       | Peak     | Horizontal   |
| *    | 8667.0          | 38.2                 | 13.8        | 52.0                   | 68.2           | -16.2       | Peak     | Horizontal   |
| *    | 7052.0          | 37.7                 | 10.9        | 48.6                   | 68.2           | -19.6       | Peak     | Vertical     |
|      | 7315.5          | 37.6                 | 11.6        | 49.2                   | 74.0           | -24.8       | Peak     | Vertical     |
| *    | 7910.5          | 37.5                 | 12.2        | 49.7                   | 68.2           | -18.5       | Peak     | Vertical     |
|      | 8216.5          | 38.1                 | 12.3        | 50.4                   | 74.0           | -23.6       | 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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11ax-HE40 - Ant 0 + 1 + 2 + 3<br>(Beamforming Mode)                                                                                                                           | Test Channel:     | 142                        |
| 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 |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
| *    | 7188.0          | 37.9                 | 11.6        | 49.5                   | 68.2           | -18.7       | Peak     | Horizontal   |
|      | 7485.5          | 37.9                 | 11.8        | 49.7                   | 74.0           | -24.3       | Peak     | Horizontal   |
| *    | 7936.0          | 37.3                 | 12.5        | 49.8                   | 68.2           | -18.4       | Peak     | Horizontal   |
|      | 8437.5          | 37.3                 | 12.7        | 50.0                   | 74.0           | -24.0       | Peak     | Horizontal   |
| *    | 7043.5          | 38.0                 | 10.9        | 48.9                   | 68.2           | -19.3       | Peak     | Vertical     |
|      | 7434.5          | 37.4                 | 11.9        | 49.3                   | 74.0           | -24.7       | Peak     | Vertical     |
| *    | 7842.5          | 36.8                 | 11.9        | 48.7                   | 68.2           | -19.5       | Peak     | Vertical     |
|      | 8276.0          | 37.0                 | 12.3        | 49.3                   | 74.0           | -24.7       | 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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11ax-HE80 - Ant 0 + 1 + 2 + 3<br>(Beamforming Mode)                                                                                                                           | Test Channel:     | 58                         |
| 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 |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
| *    | 7120.0          | 37.8                 | 11.3        | 49.1                   | 68.2           | -19.1       | Peak     | Horizontal   |
|      | 7341.0          | 38.0                 | 11.8        | 49.8                   | 74.0           | -24.2       | Peak     | Horizontal   |
| *    | 7927.5          | 39.3                 | 12.4        | 51.7                   | 68.2           | -16.5       | Peak     | Horizontal   |
|      | 8259.0          | 38.8                 | 12.3        | 51.1                   | 74.0           | -22.9       | Peak     | Horizontal   |
| *    | 7043.5          | 37.6                 | 10.9        | 48.5                   | 68.2           | -19.7       | Peak     | Vertical     |
|      | 7477.0          | 37.1                 | 11.7        | 48.8                   | 74.0           | -25.2       | Peak     | Vertical     |
| *    | 7944.5          | 37.0                 | 12.5        | 49.5                   | 68.2           | -18.7       | Peak     | Vertical     |
|      | 8208.0          | 38.1                 | 12.3        | 50.4                   | 74.0           | -23.6       | 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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11ax-HE80 - Ant 0 + 1 + 2 + 3<br>(Beamforming Mode)                                                                                                                           | Test Channel:     | 106                        |
| 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 |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
| *    | 7137.0          | 37.6                 | 11.3        | 48.9                   | 68.2           | -19.3       | Peak     | Horizontal   |
|      | 7468.5          | 37.7                 | 11.8        | 49.5                   | 74.0           | -24.5       | Peak     | Horizontal   |
| *    | 7800.0          | 38.0                 | 11.6        | 49.6                   | 68.2           | -18.6       | Peak     | Horizontal   |
|      | 8199.5          | 36.7                 | 12.4        | 49.1                   | 74.0           | -24.9       | Peak     | Horizontal   |
| *    | 6720.5          | 39.3                 | 9.6         | 48.9                   | 68.2           | -19.3       | Peak     | Vertical     |
|      | 7502.5          | 36.0                 | 11.9        | 47.9                   | 74.0           | -26.1       | Peak     | Vertical     |
| *    | 7808.5          | 36.8                 | 11.7        | 48.5                   | 68.2           | -19.7       | Peak     | Vertical     |
|      | 8157.0          | 38.9                 | 12.5        | 51.4                   | 74.0           | -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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11ax-HE80 - Ant 0 + 1 + 2 + 3<br>(Beamforming Mode)                                                                                                                           | Test Channel:     | 122                        |
| 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 |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
| *    | 6839.5          | 38.5                 | 10.0        | 48.5                   | 68.2           | -19.7       | Peak     | Horizontal   |
|      | 7485.5          | 37.4                 | 11.8        | 49.2                   | 74.0           | -24.8       | Peak     | Horizontal   |
| *    | 7953.0          | 37.3                 | 12.5        | 49.8                   | 68.2           | -18.4       | Peak     | Horizontal   |
|      | 8191.0          | 37.4                 | 12.4        | 49.8                   | 74.0           | -24.2       | Peak     | Horizontal   |
| *    | 6814.0          | 38.6                 | 9.8         | 48.4                   | 68.2           | -19.8       | Peak     | Vertical     |
|      | 7375.0          | 37.7                 | 11.9        | 49.6                   | 74.0           | -24.4       | Peak     | Vertical     |
| *    | 7978.5          | 39.3                 | 12.4        | 51.7                   | 68.2           | -16.5       | Peak     | Vertical     |
|      | 8174.0          | 38.1                 | 12.4        | 50.5                   | 74.0           | -23.5       | 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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11ax-HE80 - Ant 0 + 1 + 2 + 3<br>(Beamforming Mode)                                                                                                                           | Test Channel:     | 138                        |
| 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 |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
| *    | 7128.5          | 37.4                 | 11.3        | 48.7                   | 68.2           | -19.5       | Peak     | Horizontal   |
|      | 7460.0          | 38.1                 | 11.9        | 50.0                   | 74.0           | -24.0       | Peak     | Horizontal   |
| *    | 7876.5          | 36.2                 | 12.1        | 48.3                   | 68.2           | -19.9       | Peak     | Horizontal   |
|      | 8276.0          | 36.4                 | 12.3        | 48.7                   | 74.0           | -25.3       | Peak     | Horizontal   |
| *    | 7069.0          | 39.3                 | 11.0        | 50.3                   | 68.2           | -17.9       | Peak     | Vertical     |
|      | 7477.0          | 37.7                 | 11.7        | 49.4                   | 74.0           | -24.6       | Peak     | Vertical     |
| *    | 7953.0          | 37.2                 | 12.5        | 49.7                   | 68.2           | -18.5       | Peak     | Vertical     |
|      | 8386.5          | 36.6                 | 12.4        | 49.0                   | 74.0           | -25.0       | 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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11ax-HE80+80 - Ant 0 + 1 + 2<br>+ 3 (Beamforming Mode)                                                                                                                        | Test Channel:     | 42+58                      |
| 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 |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
| *    | 7001.0          | 47.4                 | 10.7        | 58.1                   | 68.2           | -10.1       | Peak     | Horizontal   |
|      | 7315.5          | 33.0                 | 12.2        | 45.2                   | 74.0           | -28.8       | Peak     | Horizontal   |
| *    | 7868.0          | 31.1                 | 12.1        | 43.2                   | 68.2           | -25.0       | Peak     | Horizontal   |
|      | 8157.0          | 33.2                 | 12.2        | 45.4                   | 74.0           | -28.6       | Peak     | Horizontal   |
| *    | 7001.0          | 47.8                 | 10.7        | 58.5                   | 68.2           | -9.7        | Peak     | Vertical     |
|      | 7562.0          | 33.3                 | 12.0        | 45.3                   | 74.0           | -28.7       | Peak     | Vertical     |
| *    | 7970.0          | 32.8                 | 12.5        | 45.3                   | 68.2           | -22.9       | Peak     | Vertical     |
|      | 8225.0          | 33.6                 | 12.3        | 45.9                   | 74.0           | -28.1       | 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                                                                                                                                                                         | Temperature       | 22 ~ 25°C                  |
| Test Engineer | Cloud Guo                                                                                                                                                                         | Relative Humidity | 46 ~ 62 %                  |
| Test Site     | AC2                                                                                                                                                                               | Test Date         | 2019/12/02 ~<br>2019/12/22 |
| Test Mode:    | 802.11ax-HE80+80 - Ant 0 + 1 + 2<br>+ 3 (Beamforming Mode)                                                                                                                        | Test Channel:     | 106+122                    |
| 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 |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
| *    | 7103.0          | 32.3                 | 11.7        | 44.0                   | 68.2           | -24.2       | Peak     | Horizontal   |
|      | 7477.0          | 43.2                 | 12.2        | 55.4                   | 74.0           | -18.6       | Peak     | Horizontal   |
|      | 7477.0          | 41.3                 | 12.2        | 53.5                   | 54.0           | -0.5        | Average  | Horizontal   |
| *    | 8667.0          | 31.4                 | 13.4        | 44.8                   | 68.2           | -23.4       | Peak     | Horizontal   |
|      | 9083.5          | 31.8                 | 14.4        | 46.2                   | 74.0           | -27.8       | Peak     | Horizontal   |
| *    | 6941.5          | 33.5                 | 10.5        | 44.0                   | 68.2           | -24.2       | Peak     | Vertical     |
|      | 7477.0          | 42.7                 | 12.2        | 54.9                   | 74.0           | -19.1       | Peak     | Vertical     |
|      | 7477.0          | 40.9                 | 12.2        | 53.1                   | 54.0           | -0.9        | Average  | Vertical     |
| *    | 8599.0          | 31.7                 | 13.3        | 45.0                   | 68.2           | -23.2       | Peak     | Vertical     |
|      | 11829.0         | 29.7                 | 20.3        | 50.0                   | 74.0           | -24.0       | Peak     | Vertical     |

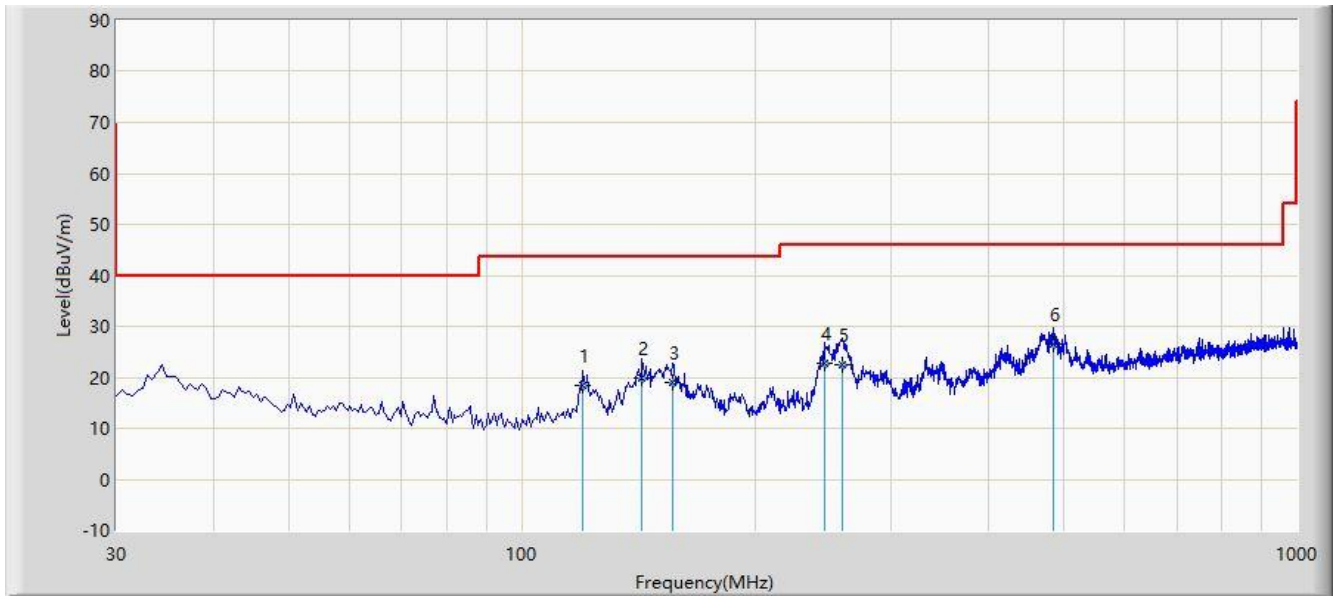
Note 1: “\*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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

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

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

|                                                                         |                          |
|-------------------------------------------------------------------------|--------------------------|
| Site: AC1                                                               | Time: 2019/11/29 - 15:11 |
| Limit: FCC_Part15.209_RSE(3m)                                           | Engineer: Dillon Diao    |
| Probe: AC1_VULB 9168 _20-2000MHz                                        | Polarity: Horizontal     |
| EUT: GigaSpire                                                          | Power: AC 120V/60Hz      |
| <b>Note: There is the worst case within frequency range 30MHz~1GHz.</b> |                          |



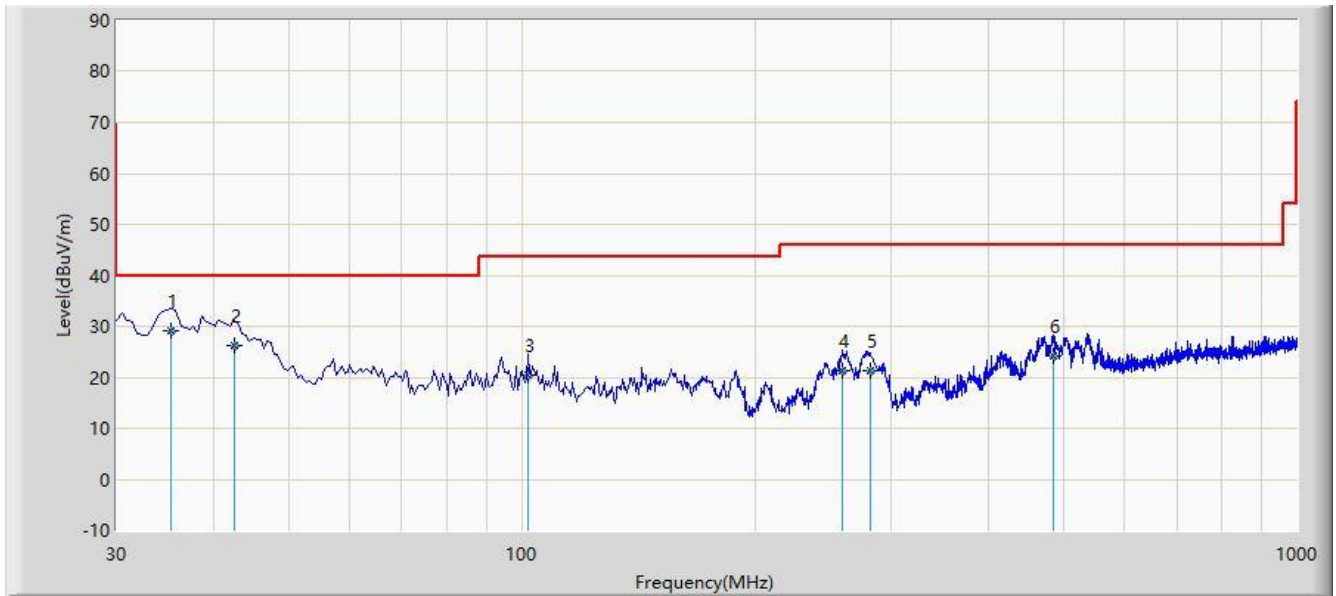
| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-------------|----------------|-------------|------|
| 1  |      |      | 119.800         | 18.537                 | 5.380                | -24.963     | 43.500         | 13.157      | QP   |
| 2  |      |      | 143.030         | 19.777                 | 5.020                | -23.723     | 43.500         | 14.758      | QP   |
| 3  |      |      | 156.600         | 18.845                 | 3.590                | -24.655     | 43.500         | 15.255      | QP   |
| 4  |      |      | 246.350         | 22.754                 | 9.830                | -23.246     | 46.000         | 12.924      | QP   |
| 5  |      |      | 258.900         | 22.538                 | 9.370                | -23.462     | 46.000         | 13.167      | QP   |
| 6  |      | *    | 484.930         | 26.486                 | 8.200                | -19.514     | 46.000         | 18.286      | QP   |

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

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

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

|                                                                         |                          |
|-------------------------------------------------------------------------|--------------------------|
| Site: AC1                                                               | Time: 2019/11/29 - 15:13 |
| Limit: FCC_Part15.209_RSE(3m)                                           | Engineer: Dillon Diao    |
| Probe: AC1_VULB 9168 _20-2000MHz                                        | Polarity: Vertical       |
| EUT: GigaSpire                                                          | Power: AC 120V/60Hz      |
| <b>Note: There is the worst case within frequency range 30MHz~1GHz.</b> |                          |



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-------------|----------------|-------------|------|
| 1  |      | *    | 35.350          | 28.993                 | 15.020               | -11.007     | 40.000         | 13.973      | QP   |
| 2  |      |      | 42.610          | 26.341                 | 11.930               | -13.659     | 40.000         | 14.410      | QP   |
| 3  |      |      | 101.800         | 20.506                 | 9.300                | -22.994     | 43.500         | 11.206      | QP   |
| 4  |      |      | 259.450         | 21.443                 | 8.270                | -24.557     | 46.000         | 13.173      | QP   |
| 5  |      |      | 281.230         | 21.255                 | 7.370                | -24.745     | 46.000         | 13.885      | QP   |
| 6  |      |      | 485.420         | 24.345                 | 6.050                | -21.655     | 46.000         | 18.294      | QP   |

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

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

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

## 7.9. Radiated Restricted Band Edge Measurement

### 7.9.1. 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<br>(MHz)         | Frequency<br>(MHz)  | Frequency<br>(MHz) | Frequency<br>(GHz) |
|----------------------------|---------------------|--------------------|--------------------|
| 0.090 - 0.110              | 16.42 - 16.423      | 399.9 - 410        | 4.5 - 5.15         |
| <sup>1</sup> 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        | ( <sup>2</sup> )   |
| 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 5.25-5.35 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 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 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 increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing

linearly 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 edge increasing linearly to a level of -27 dBm/MHz at the band edge.

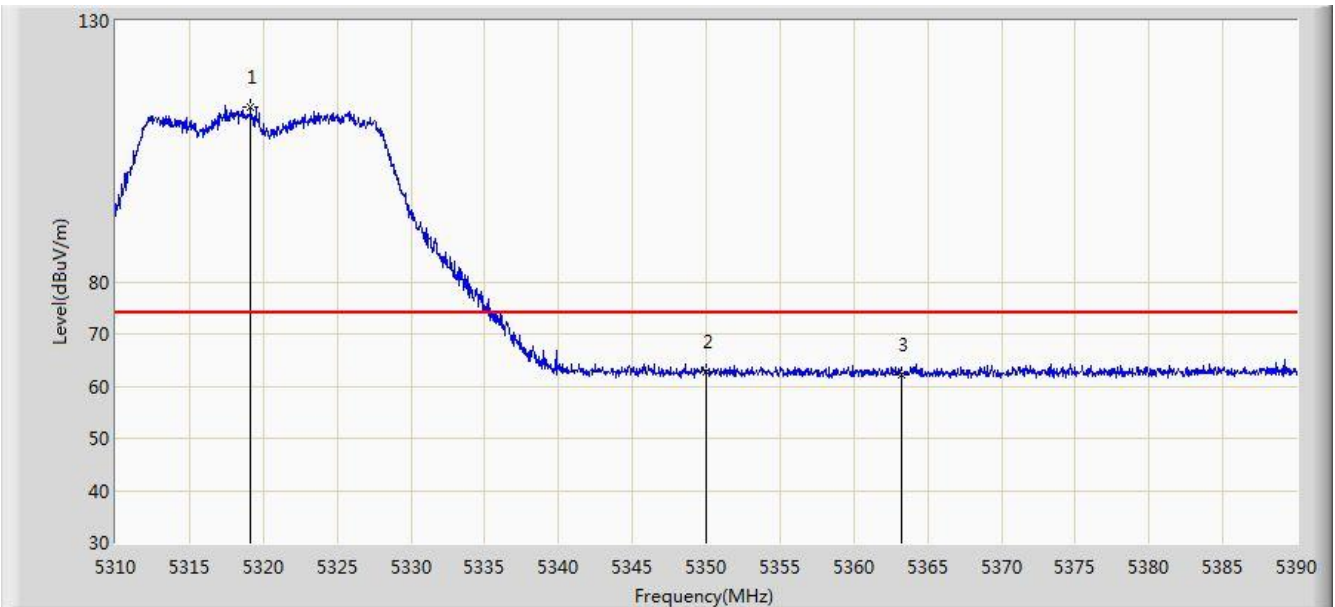
Refer to KDB 789033 D02v01r04 G)2)c), as specified in § 15.407(b), emissions above 1000 MHz that are outside of the restricted bands are subject to a maximum emission limit of -27 dBm/MHz as specified in § 15.407(b)(4)). However, an out-of-band emission that complies with both the peak and average limits of § 15.209 is not required to satisfy the -27 dBm/MHz.

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<br>[MHz]                     | Field Strength<br>[uV/m] | Measured Distance<br>[Meters] |
| 0.009 – 0.490                          | 2400/F (kHz)             | 300                           |
| 0.490 – 1.705                          | 24000/F (kHz)            | 30                            |
| 1.705 - 30                             | 30                       | 30                            |
| 30 - 88                                | 100                      | 3                             |
| 88 - 216                               | 150                      | 3                             |
| 216 - 960                              | 200                      | 3                             |
| Above 960                              | 500                      | 3                             |

### 7.9.2. Test Result

|                                                                           |                          |
|---------------------------------------------------------------------------|--------------------------|
| Site: AC1                                                                 | Time: 2019/11/30 - 13:23 |
| Limit: FCC_Part15.209_RSE(3m)                                             | Engineer: David Lv       |
| Probe: AC1_BBHA9120D_1-18GHz                                              | Polarity: Horizontal     |
| EUT: GigaSpire                                                            | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11a at Channel 5320MHz (Non Beam-Forming Mode) |                          |

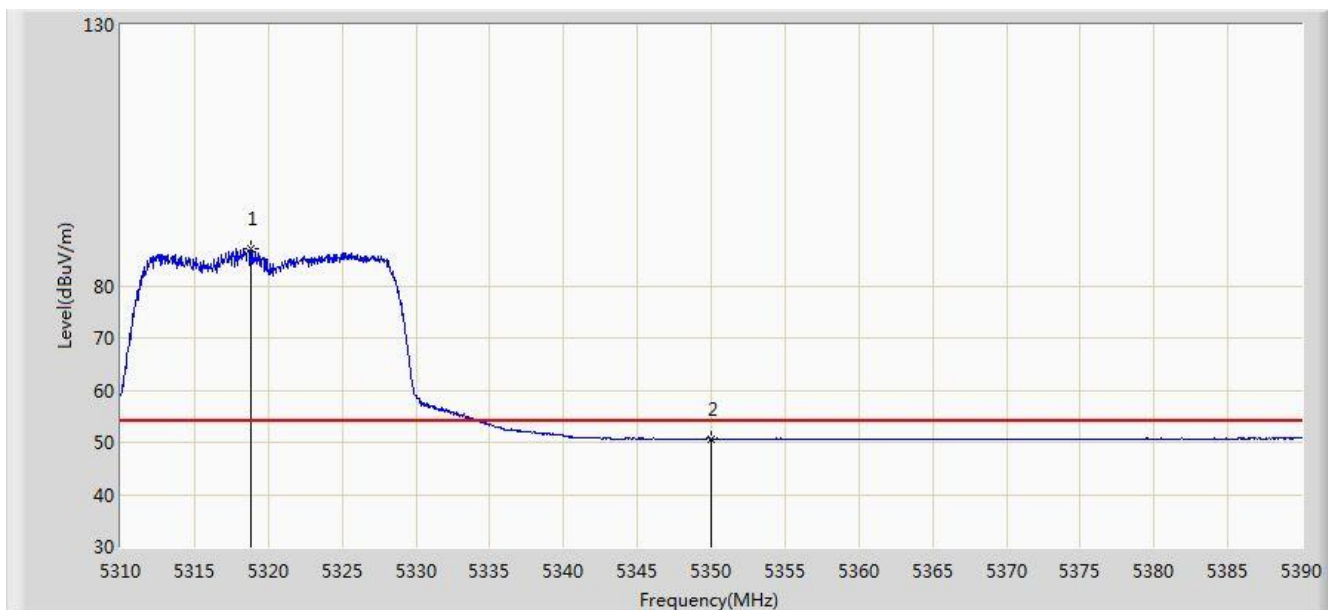


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-------------|----------------|-------------|------|
| 1  |      | *    | 5319.160        | 113.388                | 106.771              | N/A         | N/A            | 6.617       | PK   |
| 2  |      |      | 5350.000        | 62.698                 | 56.070               | -11.302     | 74.000         | 6.629       | PK   |
| 3  |      |      | 5363.200        | 62.243                 | 55.643               | -11.757     | 74.000         | 6.600       | 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: AC1                                                                 | Time: 2019/11/30 - 13:33 |
| Limit: FCC_Part15.209_RSE(3m)                                             | Engineer: David Lv       |
| Probe: AC1_BBHA9120D_1-18GHz                                              | Polarity: Horizontal     |
| EUT: GigaSpire                                                            | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11a at Channel 5320MHz (Non Beam-Forming Mode) |                          |

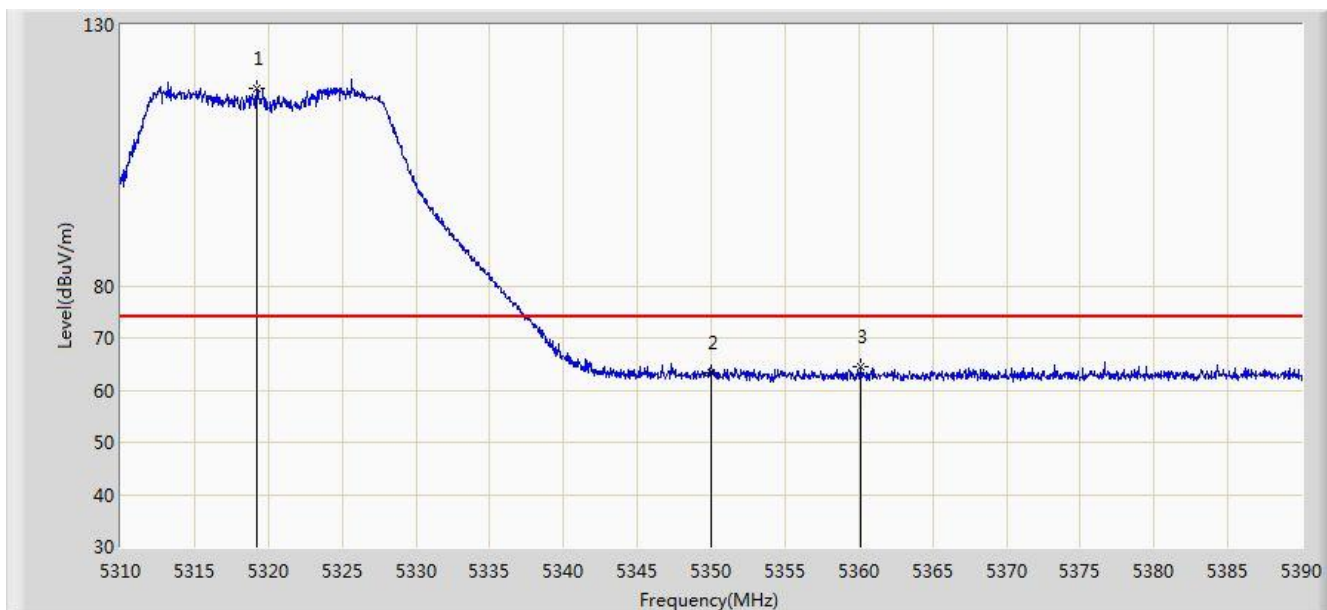


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-------------|----------------|-------------|------|
| 1  |      | *    | 5318.840        | 87.180                 | 80.566               | N/A         | N/A            | 6.615       | AV   |
| 2  |      |      | 5350.000        | 50.631                 | 44.003               | -3.369      | 54.000         | 6.629       | AV   |

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

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

|                                                                           |                          |
|---------------------------------------------------------------------------|--------------------------|
| Site: AC1                                                                 | Time: 2019/11/30 - 13:37 |
| Limit: FCC_Part15.209_RSE(3m)                                             | Engineer: David Lv       |
| Probe: AC1_BBHA9120D_1-18GHz                                              | Polarity: Vertical       |
| EUT: GigaSpire                                                            | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11a at Channel 5320MHz (Non Beam-Forming Mode) |                          |



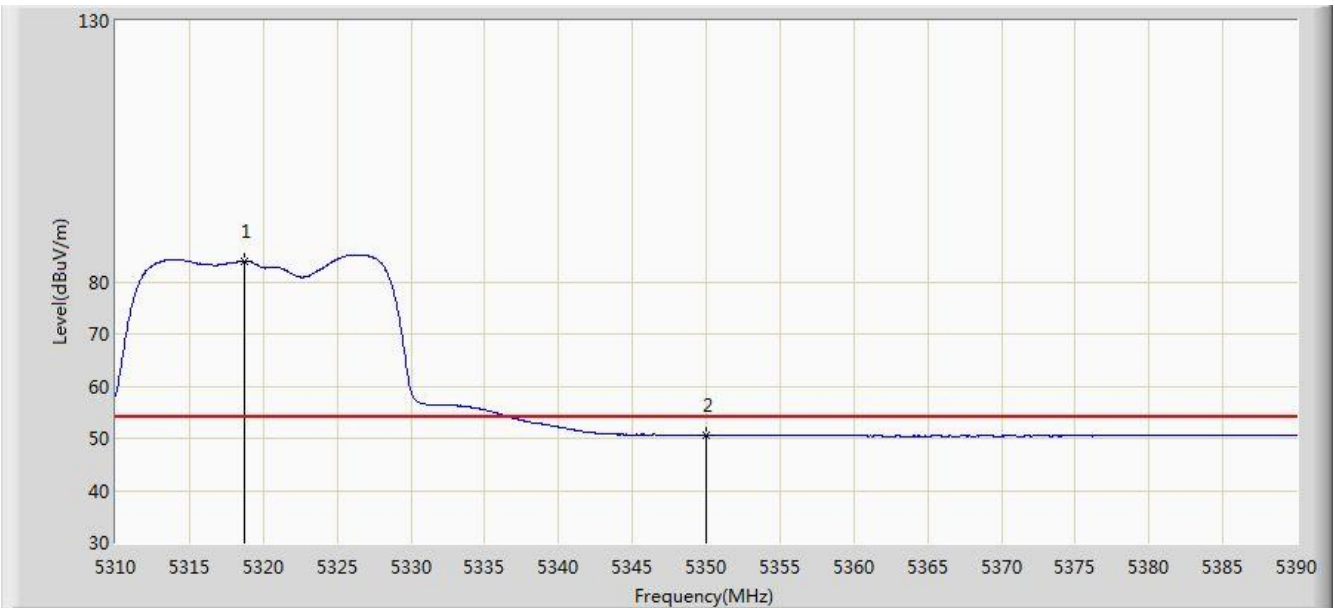
| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-------------|----------------|-------------|------|
| 1  |      | *    | 5319.200        | 117.870                | 111.253              | N/A         | N/A            | 6.617       | PK   |
| 2  |      |      | 5350.000        | 63.379                 | 56.751               | -10.621     | 74.000         | 6.629       | PK   |
| 3  |      |      | 5360.080        | 64.579                 | 57.975               | -9.421      | 74.000         | 6.604       | PK   |

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

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



|                                                                           |                          |
|---------------------------------------------------------------------------|--------------------------|
| Site: AC1                                                                 | Time: 2019/11/30 - 13:38 |
| Limit: FCC_Part15.209_RSE(3m)                                             | Engineer: David Lv       |
| Probe: AC1_BBHA9120D_1-18GHz                                              | Polarity: Vertical       |
| EUT: GigaSpire                                                            | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11a at Channel 5320MHz (Non Beam-Forming Mode) |                          |

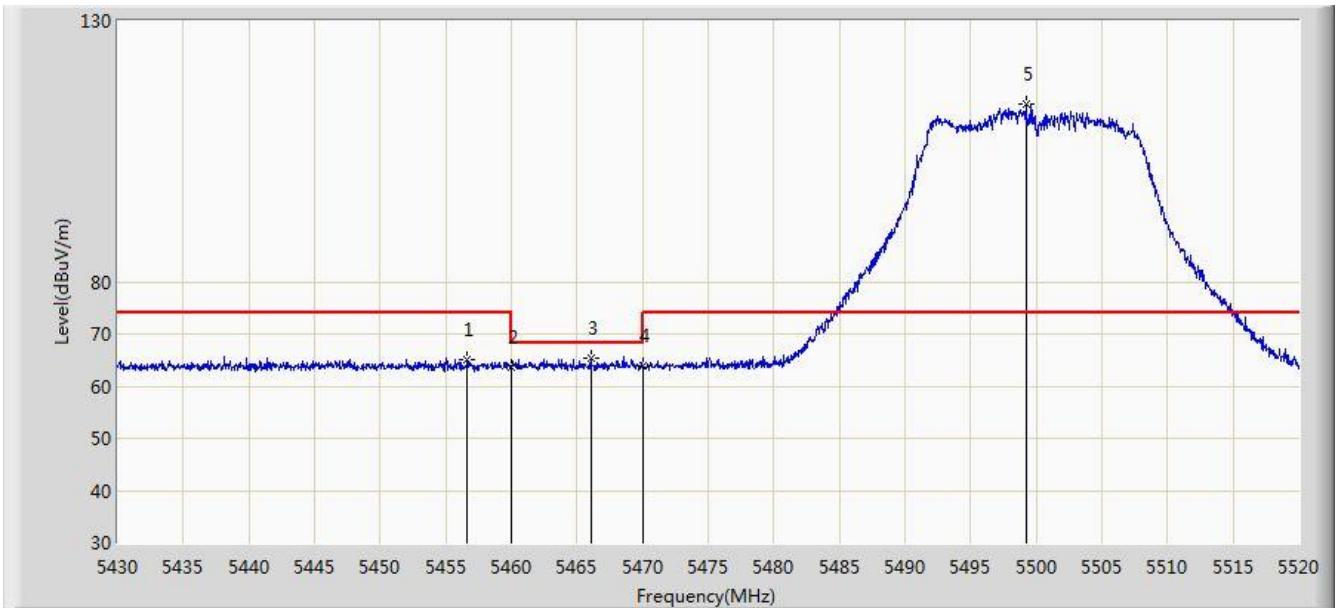


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-------------|----------------|-------------|------|
| 1  |      | *    | 5318.760        | 83.904                 | 77.290               | N/A         | N/A            | 6.613       | AV   |
| 2  |      |      | 5350.000        | 50.545                 | 43.917               | -3.455      | 54.000         | 6.629       | AV   |

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

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

|                                                                           |                          |
|---------------------------------------------------------------------------|--------------------------|
| Site: AC1                                                                 | Time: 2019/11/30 - 13:42 |
| Limit: FCC_Part15.209_RSE(3m)                                             | Engineer: David Lv       |
| Probe: AC1_BBHA9120D_1-18GHz                                              | Polarity: Horizontal     |
| EUT: GigaSpire                                                            | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11a at Channel 5500MHz (Non Beam-Forming Mode) |                          |

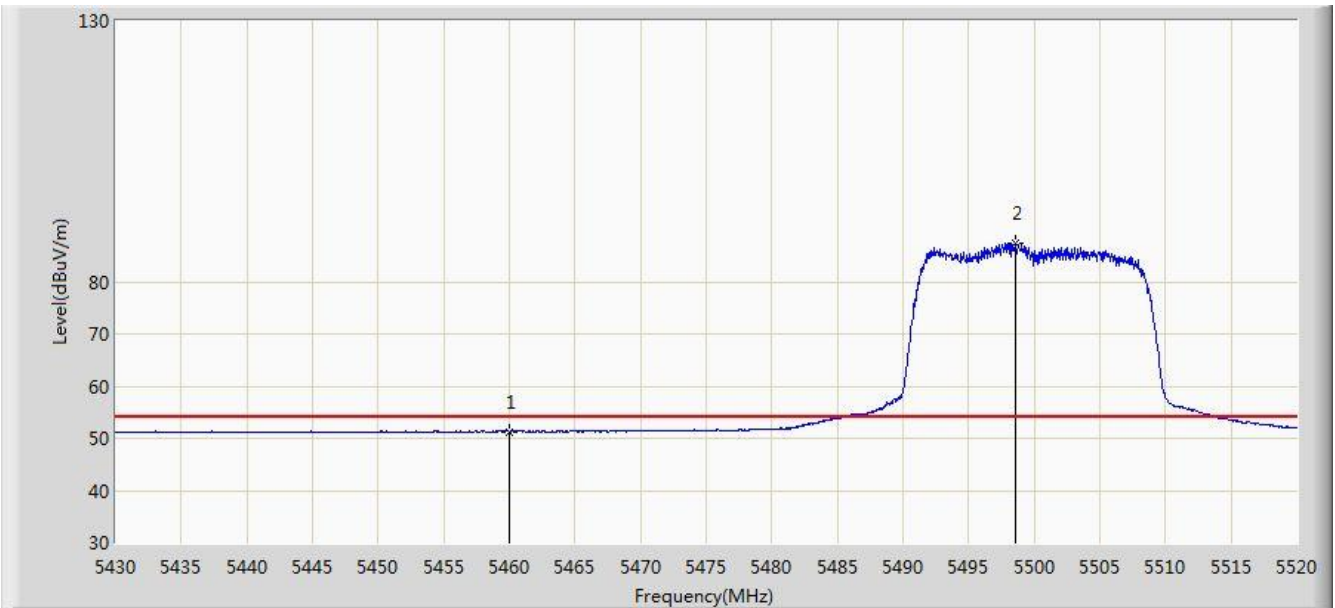


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-------------|----------------|-------------|------|
| 1  |      |      | 5456.640        | 65.049                 | 58.085               | -8.951      | 74.000         | 6.964       | PK   |
| 2  |      |      | 5460.000        | 63.754                 | 56.777               | -10.246     | 74.000         | 6.978       | PK   |
| 3  |      |      | 5466.045        | 65.270                 | 58.269               | -2.930      | 68.200         | 7.001       | PK   |
| 4  |      |      | 5470.000        | 63.979                 | 56.962               | -4.221      | 68.200         | 7.016       | PK   |
| 5  |      | *    | 5499.210        | 114.144                | 106.884              | N/A         | N/A            | 7.260       | 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: AC1                                                                 | Time: 2019/11/30 - 13:46 |
| Limit: FCC_Part15.209_RSE(3m)                                             | Engineer: David Lv       |
| Probe: AC1_BBHA9120D_1-18GHz                                              | Polarity: Horizontal     |
| EUT: GigaSpire                                                            | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11a at Channel 5500MHz (Non Beam-Forming Mode) |                          |

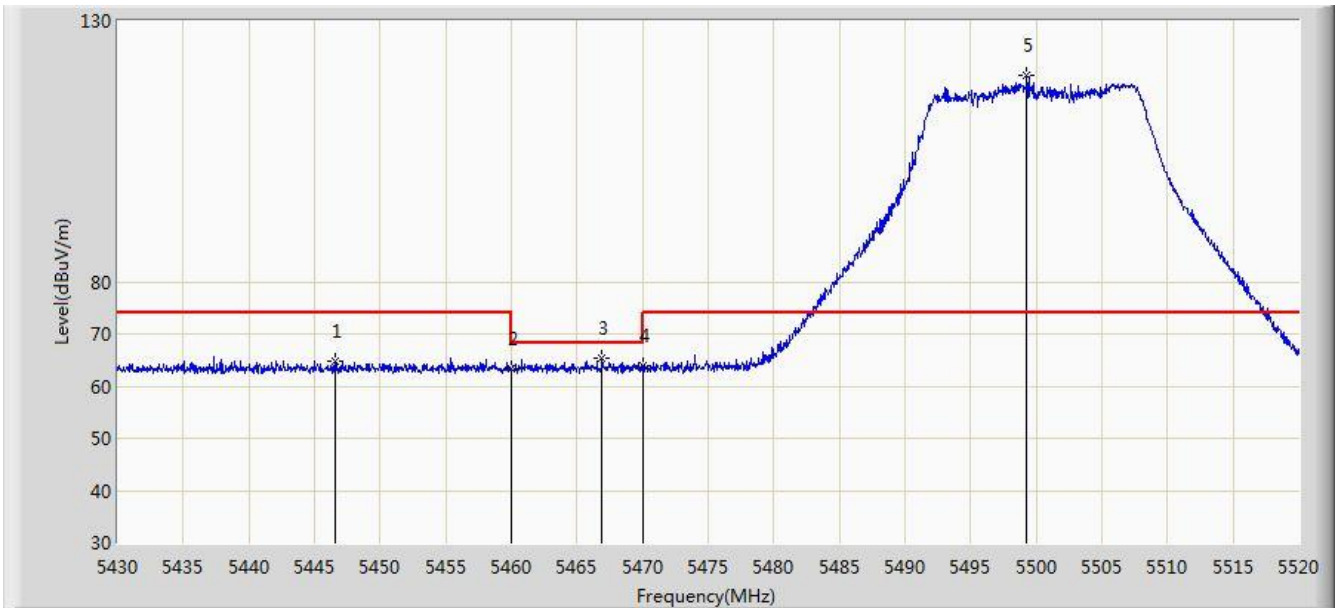


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-------------|----------------|-------------|------|
| 1  |      |      | 5460.000        | 51.261                 | 44.284               | -2.739      | 54.000         | 6.978       | AV   |
| 2  |      | *    | 5498.535        | 87.337                 | 80.084               | N/A         | N/A            | 7.253       | AV   |

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

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

|                                                                           |                          |
|---------------------------------------------------------------------------|--------------------------|
| Site: AC1                                                                 | Time: 2019/11/30 - 13:48 |
| Limit: FCC_Part15.209_RSE(3m)                                             | Engineer: David Lv       |
| Probe: AC1_BBHA9120D_1-18GHz                                              | Polarity: Vertical       |
| EUT: GigaSpire                                                            | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11a at Channel 5500MHz (Non Beam-Forming Mode) |                          |

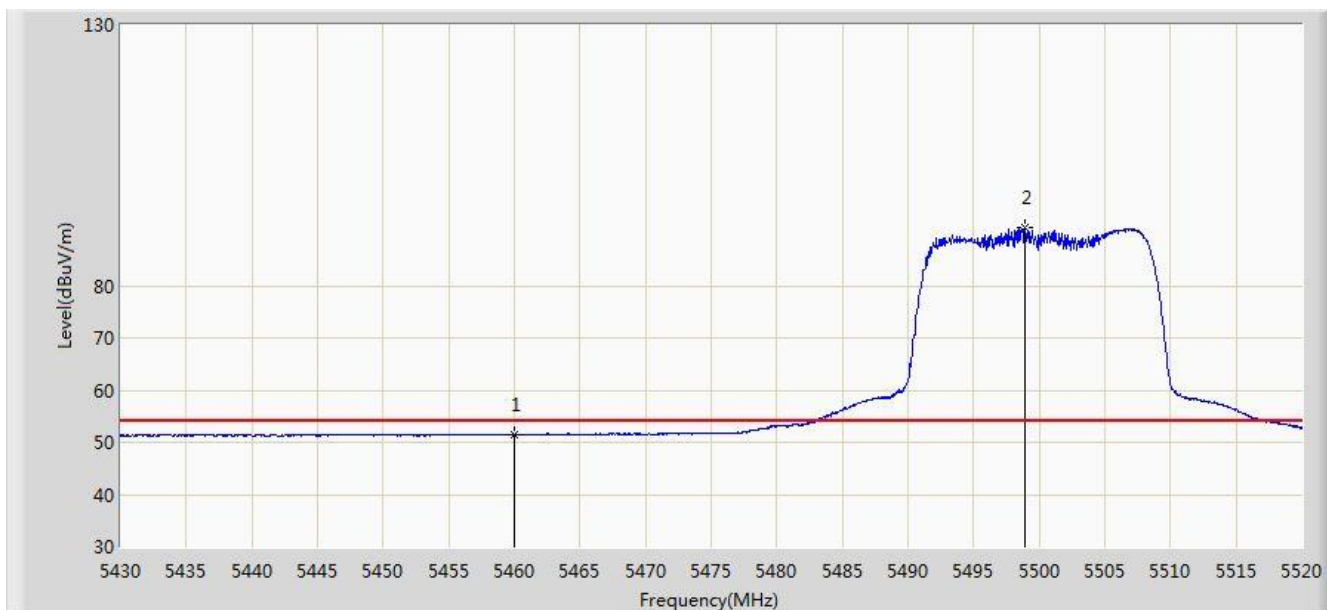


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-------------|----------------|-------------|------|
| 1  |      |      | 5446.560        | 64.689                 | 57.708               | -9.311      | 74.000         | 6.980       | PK   |
| 2  |      |      | 5460.000        | 63.258                 | 56.281               | -10.742     | 74.000         | 6.978       | PK   |
| 3  |      |      | 5466.900        | 65.236                 | 58.231               | -2.964      | 68.200         | 7.005       | PK   |
| 4  |      |      | 5470.000        | 63.945                 | 56.928               | -4.255      | 68.200         | 7.016       | PK   |
| 5  |      | *    | 5499.300        | 119.700                | 112.439              | N/A         | N/A            | 7.261       | PK   |

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

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

|                                                                           |                          |
|---------------------------------------------------------------------------|--------------------------|
| Site: AC1                                                                 | Time: 2019/11/30 - 13:50 |
| Limit: FCC_Part15.209_RSE(3m)                                             | Engineer: David Lv       |
| Probe: AC1_BBHA9120D_1-18GHz                                              | Polarity: Vertical       |
| EUT: GigaSpire                                                            | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11a at Channel 5500MHz (Non Beam-Forming Mode) |                          |

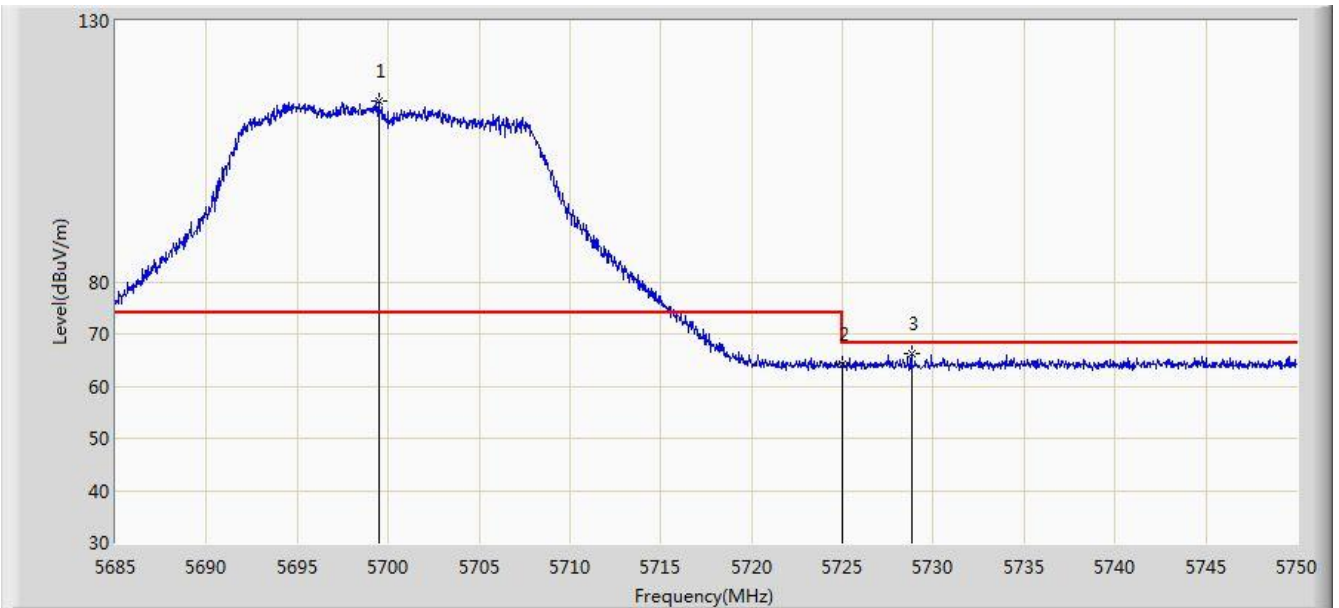


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-------------|----------------|-------------|------|
| 1  |      |      | 5460.000        | 51.522                 | 44.545               | -2.478      | 54.000         | 6.978       | AV   |
| 2  |      | *    | 5498.940        | 91.081                 | 83.824               | N/A         | N/A            | 7.257       | AV   |

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

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

|                                                                           |                          |
|---------------------------------------------------------------------------|--------------------------|
| Site: AC1                                                                 | Time: 2019/11/30 - 13:53 |
| Limit: FCC_Part15.209_RSE(3m)                                             | Engineer: David Lv       |
| Probe: AC1_BBHA9120D_1-18GHz                                              | Polarity: Horizontal     |
| EUT: GigaSpire                                                            | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11a at Channel 5700MHz (Non Beam-Forming Mode) |                          |

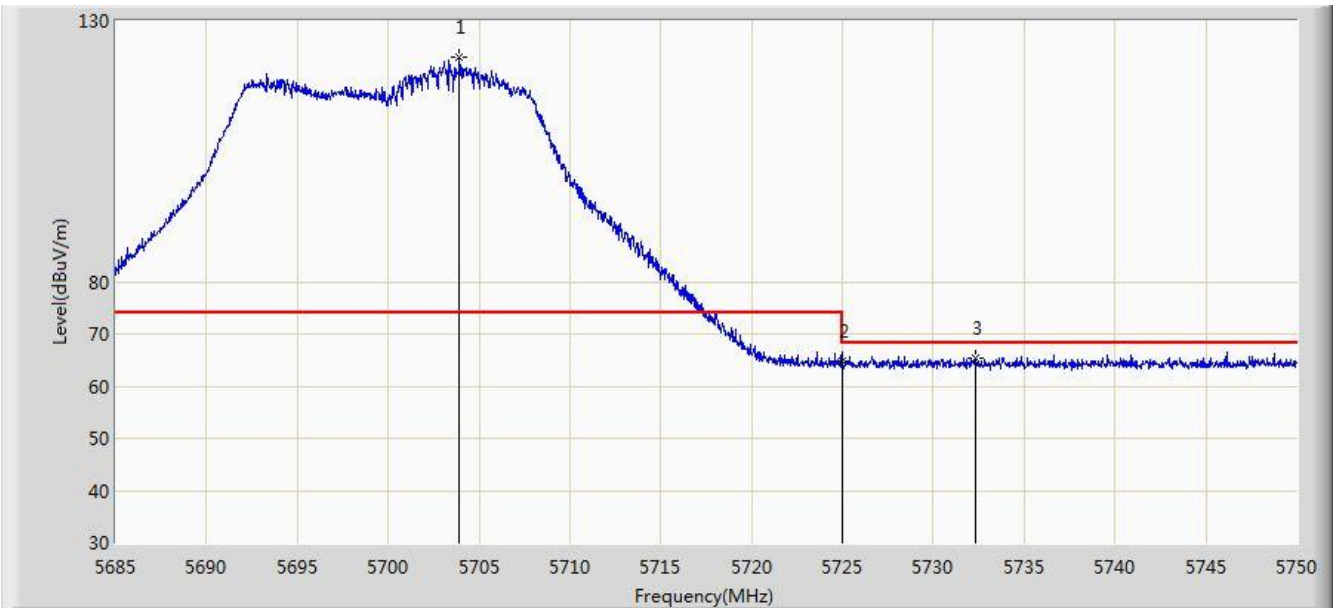


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-------------|----------------|-------------|------|
| 1  |      | *    | 5699.462        | 114.635                | 107.415              | N/A         | N/A            | 7.219       | PK   |
| 2  |      |      | 5725.000        | 64.087                 | 56.755               | -4.113      | 68.200         | 7.332       | PK   |
| 3  |      |      | 5728.810        | 66.154                 | 58.793               | -2.046      | 68.200         | 7.360       | PK   |

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

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

|                                                                           |                          |
|---------------------------------------------------------------------------|--------------------------|
| Site: AC1                                                                 | Time: 2019/11/30 - 13:56 |
| Limit: FCC_Part15.209_RSE(3m)                                             | Engineer: David Lv       |
| Probe: AC1_BBHA9120D_1-18GHz                                              | Polarity: Vertical       |
| EUT: GigaSpire                                                            | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11a at Channel 5700MHz (Non Beam-Forming Mode) |                          |

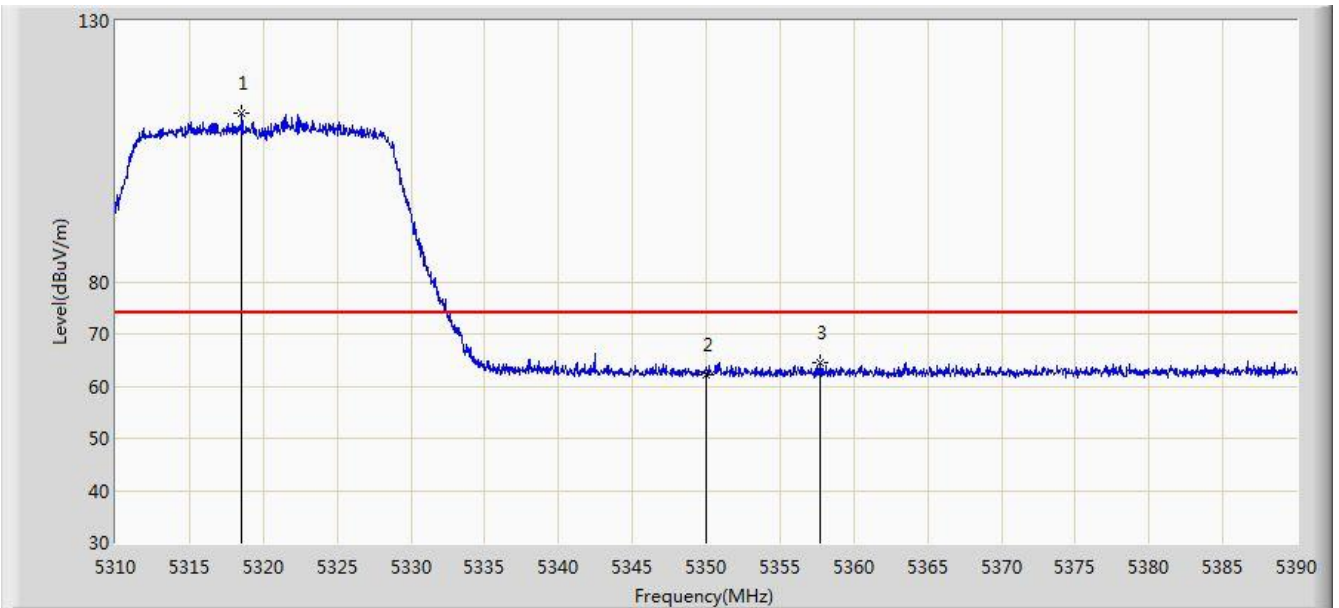


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-------------|----------------|-------------|------|
| 1  |      | *    | 5703.915        | 122.911                | 115.727              | N/A         | N/A            | 7.184       | PK   |
| 2  |      |      | 5725.000        | 64.845                 | 57.513               | -3.355      | 68.200         | 7.332       | PK   |
| 3  |      |      | 5732.288        | 65.289                 | 57.908               | -2.911      | 68.200         | 7.381       | PK   |

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

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

|                                                                                |                          |
|--------------------------------------------------------------------------------|--------------------------|
| Site: AC1                                                                      | Time: 2019/11/30 - 13:59 |
| Limit: FCC_Part15.209_RSE(3m)                                                  | Engineer: David Lv       |
| Probe: AC1_BBHA9120D_1-18GHz                                                   | Polarity: Horizontal     |
| EUT: GigaSpire                                                                 | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11n-HT20 at Channel 5320MHz (Non Beam-Forming Mode) |                          |



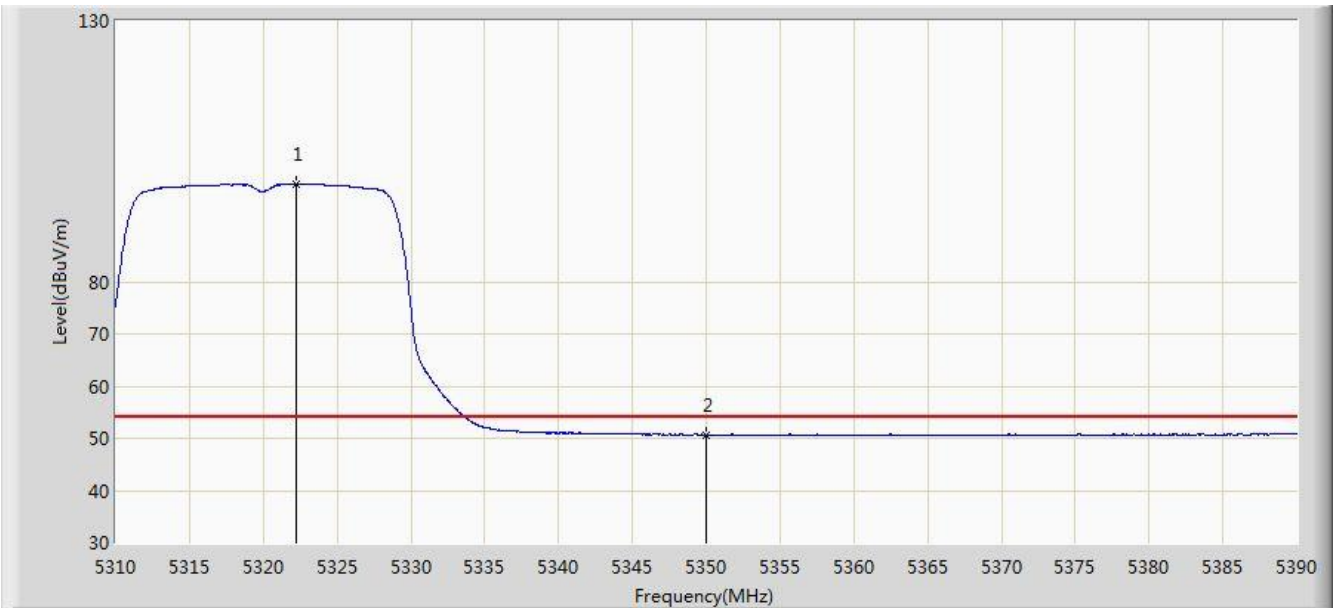
| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-------------|----------------|-------------|------|
| 1  |      | *    | 5318.560        | 112.299                | 105.687              | N/A         | N/A            | 6.613       | PK   |
| 2  |      |      | 5350.000        | 62.050                 | 55.422               | -11.950     | 74.000         | 6.629       | PK   |
| 3  |      |      | 5357.760        | 64.545                 | 57.937               | -9.455      | 74.000         | 6.608       | PK   |

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

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



|                                                                                |                          |
|--------------------------------------------------------------------------------|--------------------------|
| Site: AC1                                                                      | Time: 2019/11/30 - 14:02 |
| Limit: FCC_Part15.209_RSE(3m)                                                  | Engineer: David Lv       |
| Probe: AC1_BBHA9120D_1-18GHz                                                   | Polarity: Horizontal     |
| EUT: GigaSpire                                                                 | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11n-HT20 at Channel 5320MHz (Non Beam-Forming Mode) |                          |

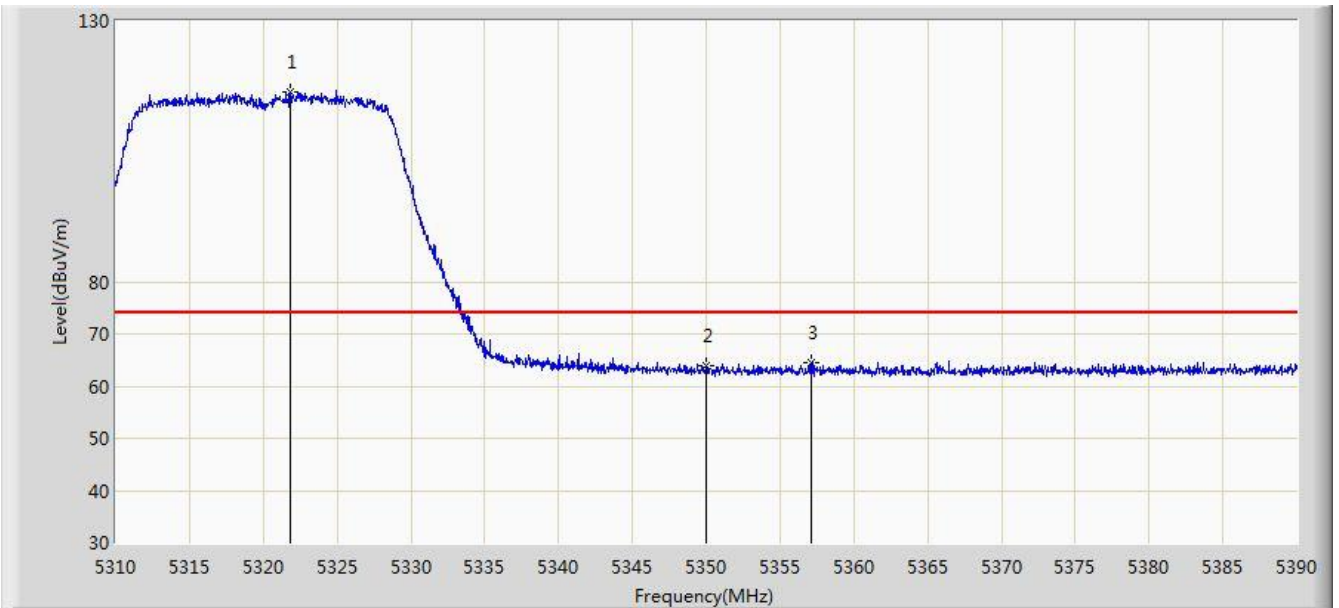


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-------------|----------------|-------------|------|
| 1  |      | *    | 5322.280        | 98.575                 | 91.937               | N/A         | N/A            | 6.638       | AV   |
| 2  |      |      | 5350.000        | 50.693                 | 44.065               | -3.307      | 54.000         | 6.629       | AV   |

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

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

|                                                                                |                          |
|--------------------------------------------------------------------------------|--------------------------|
| Site: AC1                                                                      | Time: 2019/11/30 - 14:04 |
| Limit: FCC_Part15.209_RSE(3m)                                                  | Engineer: David Lv       |
| Probe: AC1_BBHA9120D_1-18GHz                                                   | Polarity: Vertical       |
| EUT: GigaSpire                                                                 | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11n-HT20 at Channel 5320MHz (Non Beam-Forming Mode) |                          |

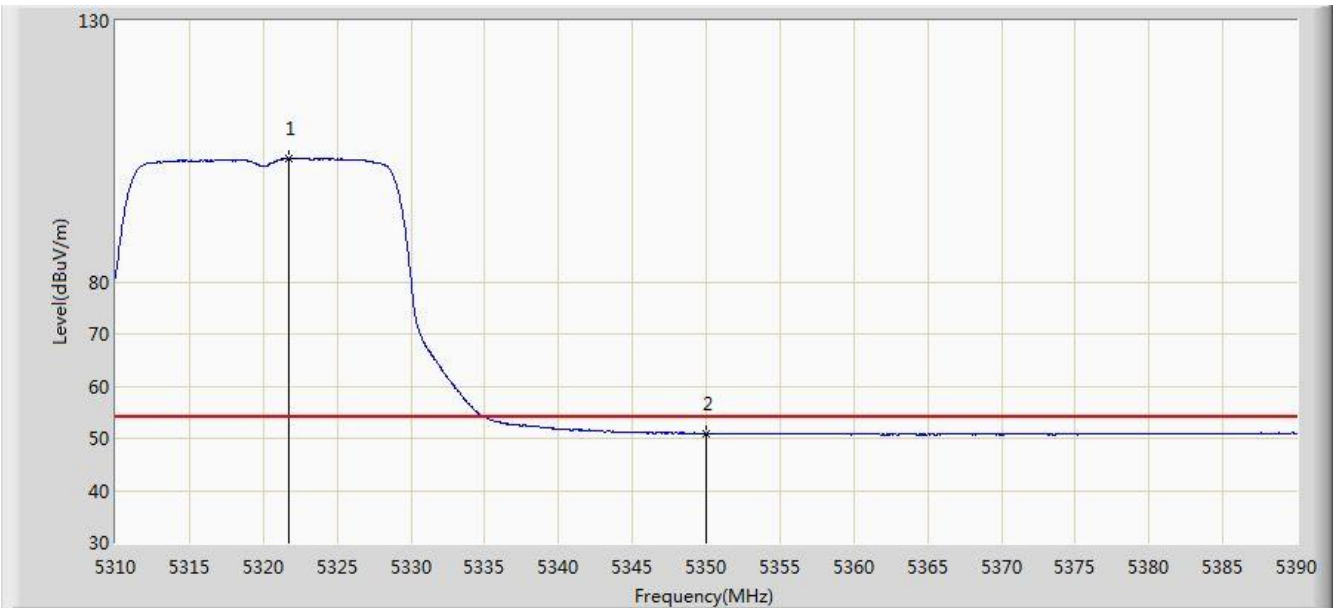


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-------------|----------------|-------------|------|
| 1  |      | *    | 5321.800        | 116.347                | 109.712              | N/A         | N/A            | 6.635       | PK   |
| 2  |      |      | 5350.000        | 64.004                 | 57.376               | -9.996      | 74.000         | 6.629       | PK   |
| 3  |      |      | 5357.160        | 64.402                 | 57.794               | -9.598      | 74.000         | 6.608       | PK   |

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

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

|                                                                                |                          |
|--------------------------------------------------------------------------------|--------------------------|
| Site: AC1                                                                      | Time: 2019/11/30 - 14:05 |
| Limit: FCC_Part15.209_RSE(3m)                                                  | Engineer: David Lv       |
| Probe: AC1_BBHA9120D_1-18GHz                                                   | Polarity: Vertical       |
| EUT: GigaSpire                                                                 | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11n-HT20 at Channel 5320MHz (Non Beam-Forming Mode) |                          |

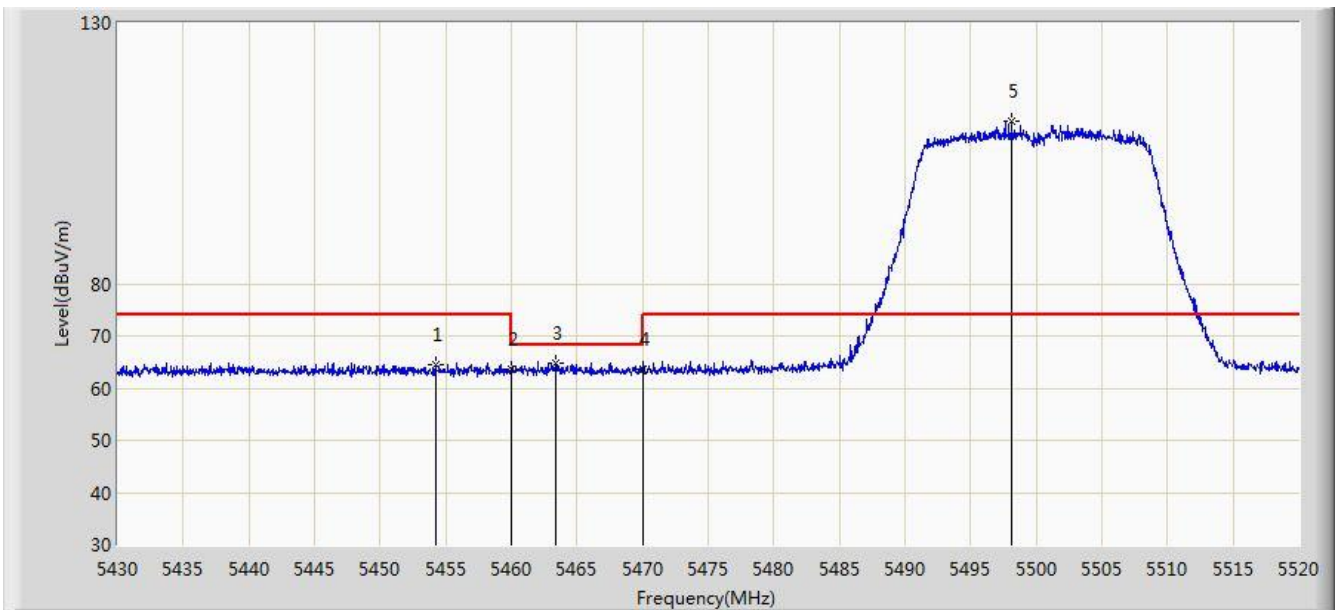


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-------------|----------------|-------------|------|
| 1  |      | *    | 5321.760        | 103.545                | 96.910               | N/A         | N/A            | 6.635       | AV   |
| 2  |      |      | 5350.000        | 50.922                 | 44.294               | -3.078      | 54.000         | 6.629       | AV   |

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

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

|                                                                                |                          |
|--------------------------------------------------------------------------------|--------------------------|
| Site: AC1                                                                      | Time: 2019/11/30 - 14:07 |
| Limit: FCC_Part15.209_RSE(3m)                                                  | Engineer: David Lv       |
| Probe: AC1_BBHA9120D_1-18GHz                                                   | Polarity: Horizontal     |
| EUT: GigaSpire                                                                 | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11n-HT20 at Channel 5500MHz (Non Beam-Forming Mode) |                          |

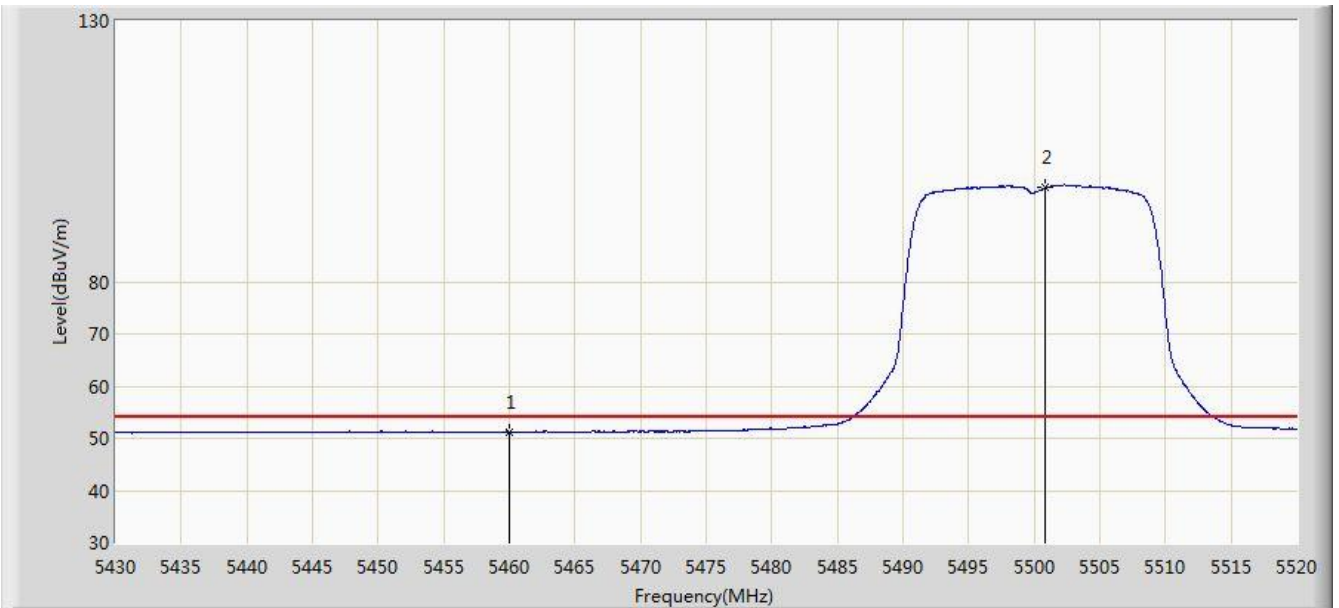


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-------------|----------------|-------------|------|
| 1  |      |      | 5454.210        | 64.443                 | 57.489               | -9.557      | 74.000         | 6.954       | PK   |
| 2  |      |      | 5460.000        | 63.660                 | 56.683               | -10.340     | 74.000         | 6.978       | PK   |
| 3  |      |      | 5463.435        | 64.793                 | 57.802               | -3.407      | 68.200         | 6.991       | PK   |
| 4  |      |      | 5470.000        | 63.557                 | 56.540               | -4.643      | 68.200         | 7.016       | PK   |
| 5  |      | *    | 5498.130        | 111.282                | 104.033              | N/A         | N/A            | 7.248       | 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: AC1                                                                      | Time: 2019/11/30 - 14:08 |
| Limit: FCC_Part15.209_RSE(3m)                                                  | Engineer: David Lv       |
| Probe: AC1_BBHA9120D_1-18GHz                                                   | Polarity: Horizontal     |
| EUT: GigaSpire                                                                 | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11n-HT20 at Channel 5500MHz (Non Beam-Forming Mode) |                          |

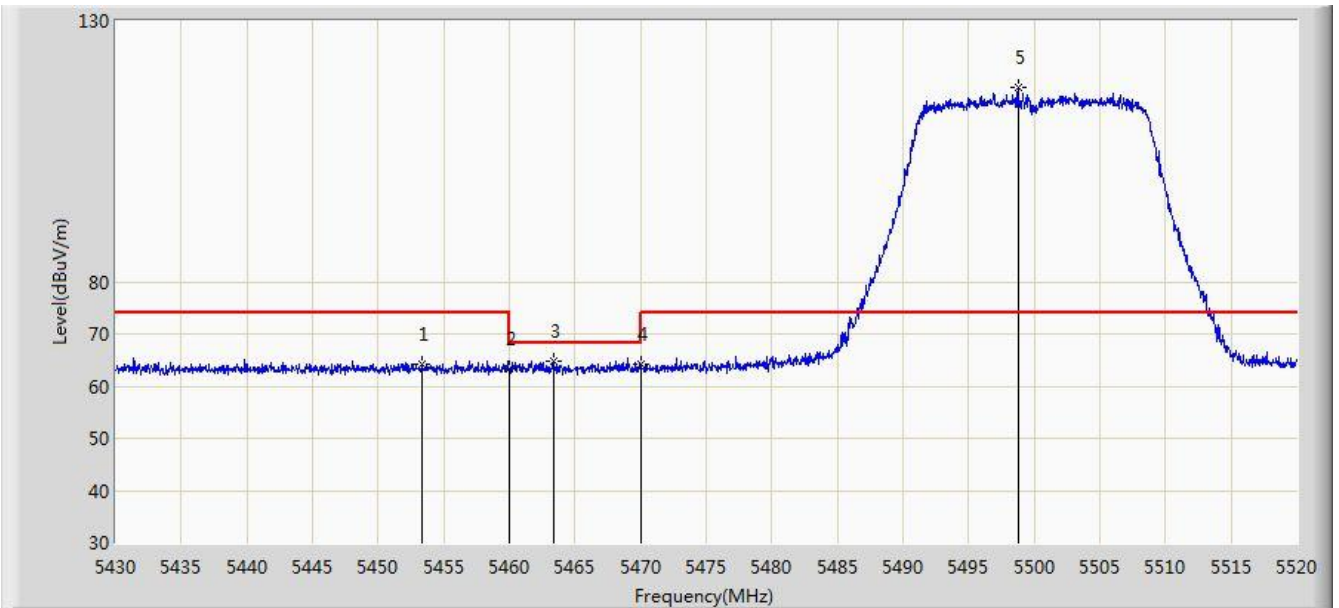


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-------------|----------------|-------------|------|
| 1  |      |      | 5460.000        | 51.271                 | 44.294               | -2.729      | 54.000         | 6.978       | AV   |
| 2  |      | *    | 5500.875        | 98.181                 | 90.903               | N/A         | N/A            | 7.278       | AV   |

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

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

|                                                                                |                          |
|--------------------------------------------------------------------------------|--------------------------|
| Site: AC1                                                                      | Time: 2019/11/30 - 14:09 |
| Limit: FCC_Part15.209_RSE(3m)                                                  | Engineer: David Lv       |
| Probe: AC1_BBHA9120D_1-18GHz                                                   | Polarity: Vertical       |
| EUT: GigaSpire                                                                 | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11n-HT20 at Channel 5500MHz (Non Beam-Forming Mode) |                          |



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-------------|----------------|-------------|------|
| 1  |      |      | 5453.355        | 64.335                 | 57.379               | -9.665      | 74.000         | 6.956       | PK   |
| 2  |      |      | 5460.000        | 63.267                 | 56.290               | -10.733     | 74.000         | 6.978       | PK   |
| 3  |      |      | 5463.390        | 64.725                 | 57.734               | -3.475      | 68.200         | 6.991       | PK   |
| 4  |      |      | 5470.000        | 64.093                 | 57.076               | -4.107      | 68.200         | 7.016       | PK   |
| 5  |      | *    | 5498.805        | 117.154                | 109.898              | N/A         | N/A            | 7.256       | PK   |

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

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