

# RADIO TEST REPORT

## (FCC Part 15 Subpart E / IC RSS-247)

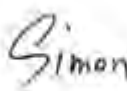
|            |                                                                            |
|------------|----------------------------------------------------------------------------|
| Applicant: | Honeywell International Inc<br>Honeywell Safety and Productivity Solutions |
| Address:   | 9680 Old Bailes Road, Fort Mill, SC 29707 United States                    |

|                |                                                                            |
|----------------|----------------------------------------------------------------------------|
| Manufacturer:  | Honeywell International Inc<br>Honeywell Safety and Productivity Solutions |
| Address:       | 9680 Old Bailes Road, Fort Mill, SC 29707 United States                    |
| Product:       | Mobile Computer                                                            |
| Brand Name:    | Honeywell                                                                  |
| Model Name:    | CT45-L0N                                                                   |
| FCC ID:        | HD5-CT45L0N                                                                |
| Date of tests: | 2021-06-11 to 2021-07-13                                                   |

The tests have been carried out according to the requirements of the following standard:

☒ **Part 15 Subpart E §15. 407 / IC RSS-247 issue 2**

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

|                                                                                                            |                                                                                                              |
|------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| Prepared by Simon Wang<br>Engineer / Mobile Department                                                     | Approved by Luke Lu<br>Manager / Mobile Department                                                           |
| <br>Date: Jul. 14, 2021 | <br>Date: Jul. 14, 2021 |

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## Report Revise Record

| Report Version | Revise Time | Issued Date | Valid Version | Notes           |
|----------------|-------------|-------------|---------------|-----------------|
| V1.0           | /           | 2021.07.14  | Valid         | Original Report |

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## Summary of Test Result

| FCC Rule              | IC Rule                    | Description                                  | Limit                                                                                    | Result | Remark                                  |
|-----------------------|----------------------------|----------------------------------------------|------------------------------------------------------------------------------------------|--------|-----------------------------------------|
| 2.1049<br>15.403(i)   | RSS-247<br>Section 6       | 26dB & 99%<br>Bandwidth                      | -                                                                                        | Pass   | U-NII-1<br>U-NII-2A<br>U-NII-2C         |
|                       |                            |                                              | >500kHz                                                                                  | Pass   | U-NII-3                                 |
| 15.407(a)             | RSS-247<br>Section 6       | Maximum<br>Conducted<br>Output Power         | ≤24dBm                                                                                   | Pass   | U-NII-1<br>U-NII-2A<br>U-NII-2C         |
|                       |                            |                                              | ≤30dBm                                                                                   | Pass   | U-NII-3                                 |
| 15.407(a)             | RSS-247<br>Section 6       | Power Spectral<br>Density                    | ≤11dBm/MHz                                                                               | Pass   | U-NII-1<br>U-NII-2A<br>U-NII-2C         |
|                       |                            |                                              | ≤30dBm/500kHz                                                                            | Pass   | U-NII-3                                 |
| 15.407(b)             | RSS-247<br>Section 6       | Unwanted Emissions                           | 15.407(b)<br>15.209(a)<br>RSS-247(6.2)<br>RSS-GEN(8.9<br>Table 4, Table 5<br>and Table 6 | Pass   | Under limit<br>3.02 dB at<br>17235 MHz  |
| 15.207                | RSS-Gen 8.8                | AC Conducted<br>Emission                     | 15.207(a)<br>RSS-Gen(8.8<br>Table 3)                                                     | Pass   | Under limit<br>17.16 dB at<br>0.497 MHz |
| 15.407(g)             | RSS-Gen 6.11               | Frequency Stability                          | Within<br>Operation Band                                                                 | Pass   |                                         |
| 15.407(c)             | RSS-247 6.4(a)             | Automatically<br>Discontinue<br>Transmission | Discontinue<br>Transmission                                                              | Pass   |                                         |
| 15.203 &<br>15.407(a) | RSS-Gen 6.7<br>RSS-Gen 8.3 | Antenna Requirement                          | N/A                                                                                      | Pass   |                                         |

# 1 General Description

## 1.1 Applicant

**Honeywell International Inc**  
**Honeywell Safety and Productivity Solutions**  
 9680 Old Bailes Road, Fort Mill, SC 29707 United States

## 1.2 Manufacturer

**Honeywell International Inc**  
**Honeywell Safety and Productivity Solutions**  
 9680 Old Bailes Road, Fort Mill, SC 29707 United States

## 1.3 General Description Of EUT

|                               |                                                                                                                                                                                                                                                              |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product</b>                | Mobile Computer                                                                                                                                                                                                                                              |
| <b>Model No.</b>              | CT45-L0N                                                                                                                                                                                                                                                     |
| <b>Additional No.</b>         | N/A                                                                                                                                                                                                                                                          |
| <b>Difference Description</b> | N/A                                                                                                                                                                                                                                                          |
| <b>HW Version</b>             | V1.0                                                                                                                                                                                                                                                         |
| <b>SW Version</b>             | OS.11.001                                                                                                                                                                                                                                                    |
| <b>Power Supply</b>           | 3.85Vdc for EUT                                                                                                                                                                                                                                              |
| <b>Modulation Technology</b>  | 256QAM,64QAM, 16QAM, QPSK, BPSK for OFDM                                                                                                                                                                                                                     |
| <b>Modulation Type</b>        | 802.11a/n/ac : OFDM                                                                                                                                                                                                                                          |
| <b>Operating Frequency</b>    | U-NII-1:5150~5250MHz<br>U-NII-2A:5250~5350MHz<br>U-NII-2C:5470~5725MHz<br>U-NII-3:5725~5850MHz                                                                                                                                                               |
| <b>Max. Output Power</b>      | 802.11a : 19.17 dBm (0.0826 W)<br>802.11n HT20 SISO: 18.15 dBm (0.0653 W)<br>802.11n HT40 SISO: 18.56 dBm (0.0718 W)<br>802.11ac VHT20 SISO : 18.19 dBm (0.0659 W)<br>802.11ac VHT40 SISO: 17.84 dBm (0.0608 W)<br>802.11ac VHT80 SISO: 16.58 dBm (0.0455 W) |
| <b>Antenna Type</b>           | LDS type Antenna                                                                                                                                                                                                                                             |
| <b>Antenna Gain (dBi)</b>     | 1.1dBi Gainat U-NII-1<br>1.3dBi Gainat U-NII-2A<br>1.5dBi Gainat U-NII-2C<br>1.3dBi Gainat U-NII-3                                                                                                                                                           |
| <b>I/O Ports</b>              | Refer to user's manual                                                                                                                                                                                                                                       |



**NOTE:**

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
2. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.

## 1.4 Modification of EUT

No modifications are made to the EUT during all test items.

## 1.5 Applicable Standards and lab information

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ FCC Part 15 Subpart E §15.407
- ♦ ANSI C63.10-2013
- ♦ FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01
- ♦ FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ♦ IC RSS-247 Issue 2
- ♦ IC RSS-Gen Issue 5

**Remark:**

1. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.
2. The FCC Site Registration No. is 525120; The Designation No. is CN1171.
3. The IC test Site Registration No. is 21771-1; The CAB Identifier No. is CN0007



## 2 Test Configuration of Equipment Under Test

### 2.1 Carrier Frequency and Channel

#### U-NII-1

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 36      | 5180 MHz  | 46      | 5230 MHz  |
| 38      | 5190 MHz  | 48      | 5240 MHz  |
| 40      | 5200 MHz  |         |           |
| 42      | 5210 MHz  |         |           |

#### U-NII-2A

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 52      | 5260 MHz  | 62      | 5310 MHz  |
| 54      | 5270 MHz  | 64      | 5320 MHz  |
| 56      | 5280 MHz  |         |           |
| 58      | 5290 MHz  |         |           |

#### U-NII-2C

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 100     | 5500 MHz  | 134     | 5670 MHz  |
| 102     | 5510 MHz  | 138     | 5690 MHz  |
| 106     | 5530 MHz  | 140     | 5700 MHz  |
| 110     | 5550 MHz  | 142     | 5710 MHz  |
| 116     | 5580 MHz  | 144     | 5720 MHz  |
| 122     | 5610 MHz  |         |           |

#### TDWR

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 118     | 5590 MHz  | 124     | 5620 MHz  |
| 120     | 5600 MHz  | 126     | 5630 MHz  |
| 122     | 5610 MHz  | 128     | 5640 MHz  |

#### U-NII-3

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 149     | 5745 MHz  | 159     | 5795 MHz  |
| 151     | 5755 MHz  | 165     | 5825 MHz  |
| 155     | 5775 MHz  |         |           |
| 157     | 5785 MHz  |         |           |



## 2.2 Test Mode

Based on the baseline scan, the worst - case data rates were:

802.11a mode: 6 Mbps

802.11n HT20 mode: MCS0

802.11n HT40 mode: MCS0

802.11ac VHT20 mode: MCS0

802.11ac VHT40 mode: MCS0

802.11ac VHT80 mode: MCS0

### 2.2.1 Antenna Port Conducted Measurement

| Summary table of Test Cases |              |                                 |                                 |                |
|-----------------------------|--------------|---------------------------------|---------------------------------|----------------|
| Test Item                   | Modulation   |                                 |                                 |                |
|                             | 802.11 a     | 802.11n HT20/<br>802.11ac VHT20 | 802.11n HT40/<br>802.11ac VHT40 | 802.11ac VHT80 |
| U-NII-1                     | Mode 1: CH36 | Mode 1: CH36                    | Mode 1: CH38                    | Mode 1: CH42   |
|                             | Mode 2: CH40 | Mode 2: CH40                    | Mode 2: CH46                    | Mode 2: -      |
|                             | Mode 3: CH48 | Mode 3: CH48                    | Mode 3: -                       | Mode 3: -      |

| Summary table of Test Cases |              |                                 |                                 |                |
|-----------------------------|--------------|---------------------------------|---------------------------------|----------------|
| Test Item                   | Modulation   |                                 |                                 |                |
|                             | 802.11 a     | 802.11n HT20/<br>802.11ac VHT20 | 802.11n HT40/<br>802.11ac VHT40 | 802.11ac VHT80 |
| U-NII-2A                    | Mode 1: CH52 | Mode 1: CH52                    | Mode 1: CH54                    | Mode 1: CH58   |
|                             | Mode 2: CH56 | Mode 2: CH56                    | Mode 2: CH62                    | Mode 2: -      |
|                             | Mode 3: CH64 | Mode 3: CH64                    | Mode 3: -                       | Mode 3: -      |

| Summary table of Test Cases |               |                                 |                                 |                |
|-----------------------------|---------------|---------------------------------|---------------------------------|----------------|
| Test Item                   | Modulation    |                                 |                                 |                |
|                             | 802.11 a      | 802.11n HT20/<br>802.11ac VHT20 | 802.11n HT40/<br>802.11ac VHT40 | 802.11ac VHT80 |
| U-NII-2C                    | Mode 1: CH100 | Mode 1: CH100                   | Mode 1: CH102                   | Mode 1: CH106  |
|                             | Mode 2: CH116 | Mode 2: CH116                   | Mode 2: CH110                   | Mode 2: CH138  |
|                             | Mode 3: CH140 | Mode 3: CH140                   | Mode 3: CH134                   | Mode 3: -      |
|                             | Mode 4: CH144 | Mode 4: CH144                   | Mode 4: CH142                   |                |

| Summary table of Test Cases |                                                 |                                                 |                                 |                                         |
|-----------------------------|-------------------------------------------------|-------------------------------------------------|---------------------------------|-----------------------------------------|
| Test Item                   | Modulation                                      |                                                 |                                 |                                         |
|                             | 802.11 a                                        | 802.11n HT20/<br>802.11ac VHT20                 | 802.11n HT40/<br>802.11ac VHT40 | 802.11ac VHT80                          |
| <b>U-NII-3</b>              | Mode 1: CH149<br>Mode 2: CH157<br>Mode 3: CH165 | Mode 1: CH149<br>Mode 2: CH157<br>Mode 3: CH165 | Mode 1: CH151<br>Mode 2: CH159  | Mode 1: CH155<br>Mode 2: -<br>Mode 3: - |

## 2.2.2 Radiated Emission Test (Below 1GHz)

| Radiated<br>Test Cases | 802.11n HT40 |
|------------------------|--------------|
|                        | Mode 1: CH62 |

Note : 1. Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, XYZ axis, antenna ports (if EUT with antenna diversity architecture) and packet type. It was determined that Y orientation was worst-case orientation; therefore, all final radiated testing was performed with the EUT in Y orientation.

2. Following channel(s) was (were) selected for the final test as listed above

## 2.2.3 Radiated Bandedge and Radiated Emission Test (Above 1GHz)

| Summary table of Test Cases       |                                              |                                              |                                              |                              |
|-----------------------------------|----------------------------------------------|----------------------------------------------|----------------------------------------------|------------------------------|
| Test Item                         | Modulation                                   |                                              |                                              |                              |
|                                   | 802.11 a                                     | 802.11n HT20/<br>802.11ac VHT20<br>SISO      | 802.11n HT40/<br>802.11ac VHT40<br>SISO      | 802.11ac VHT80<br>SISO       |
| <b>U-NII-1 &amp;<br/>U-NII-2A</b> | Mode 1: CH36<br>Mode 2: CH48<br>Mode 3: CH64 | Mode 1: CH36<br>Mode 2: CH48<br>Mode 3: CH64 | Mode 1: CH38<br>Mode 2: CH46<br>Mode 3: CH62 | Mode 1: CH42<br>Mode 2: CH58 |

| Summary table of Test Cases |                                                                  |                                                                  |                                                                  |                                                 |
|-----------------------------|------------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------|-------------------------------------------------|
| Test Item                   | Modulation                                                       |                                                                  |                                                                  |                                                 |
|                             | 802.11 a                                                         | 802.11n HT20/<br>802.11ac VHT20                                  | 802.11n HT40/<br>802.11ac VHT40                                  | 802.11ac VHT80                                  |
| <b>U-NII-2C</b>             | Mode 1: CH100<br>Mode 2: CH116<br>Mode 3: CH140<br>Mode 4: CH144 | Mode 1: CH100<br>Mode 2: CH116<br>Mode 3: CH140<br>Mode 4: CH144 | Mode 1: CH102<br>Mode 2: CH110<br>Mode 3: CH134<br>Mode 4: CH142 | Mode 1: CH106<br>Mode 2: CH122<br>Mode 3: CH138 |

| Summary table of Test Cases |                                                 |                                                 |                                 |                                         |
|-----------------------------|-------------------------------------------------|-------------------------------------------------|---------------------------------|-----------------------------------------|
| Test Item                   | Modulation                                      |                                                 |                                 |                                         |
|                             | 802.11 a                                        | 802.11n HT20/<br>802.11ac VHT20                 | 802.11n HT40/<br>802.11ac VHT40 | 802.11ac VHT80                          |
| <b>U-NII-3</b>              | Mode 1: CH149<br>Mode 2: CH157<br>Mode 3: CH165 | Mode 1: CH149<br>Mode 2: CH157<br>Mode 3: CH165 | Mode 1: CH151<br>Mode 2: CH159  | Mode 1: CH155<br>Mode 2: -<br>Mode 3: - |

- Note :
1. The power under SISO is greater than the power under SISO, so the radiated spurious test under SISO
  2. Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, XYZ axis, antenna ports (if EUT with antenna diversity architecture) and packet type. It was determined that Y orientation was worst-case orientation; therefore, all final radiated testing was performed with the EUT in Y orientation.
  3. Following channel(s) was (were) selected for the final test as listed above
  4. For frequency above 18GHz, the measured value is much lower than the limit, therefore, it is not reflected in the report.

#### 2.2.4 Power Line Conducted Emission Test:

|                                      |                                            |
|--------------------------------------|--------------------------------------------|
| <b>AC<br/>Conducted<br/>Emission</b> | Mode 1 : RLAN Linking + Earphone + Adapter |
|--------------------------------------|--------------------------------------------|

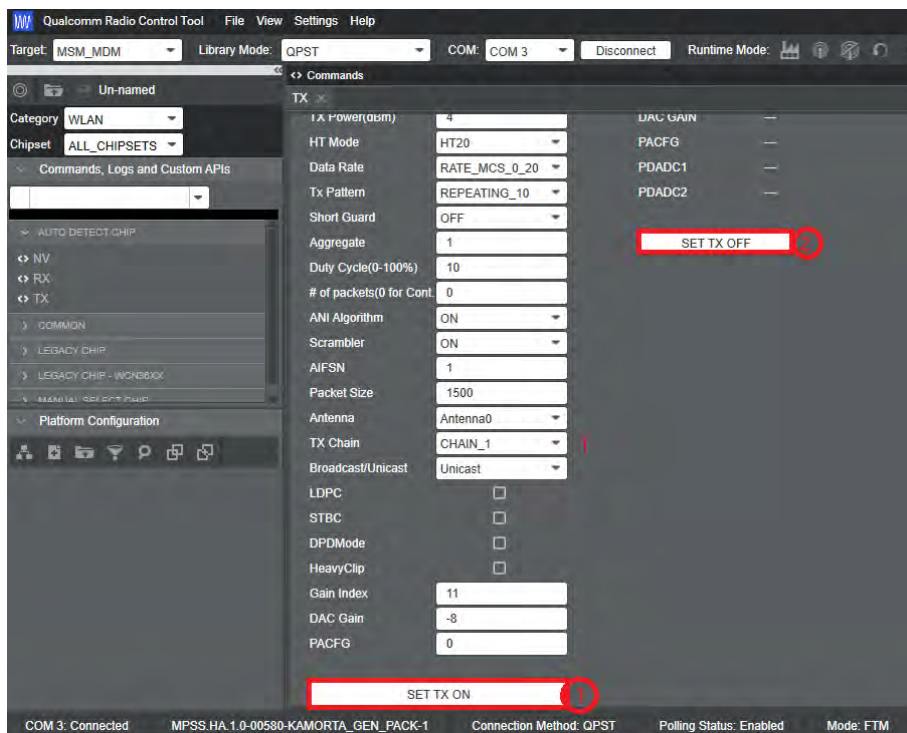
### 2.3 Support Equipment

| Item | Equipment | Trade Name | Model Name           | FCC ID      | Data Cable | Power Cord                                                   |
|------|-----------|------------|----------------------|-------------|------------|--------------------------------------------------------------|
| 1.   | WLAN AP   | NETGARE    | R7800                | PY315100319 | N/A        | unshielded AC I/P cable 1.2 m                                |
| 2.   | Notebook  | Lenovo     | E470C                | FCC sDoC    | N/A        | shielded cable DC O/P 1.8 m<br>unshielded AC I/P cable 1.2 m |
| 3.   | Earphone  | Honeywell  | PTE-300N             | FCC sDoC    | N/A        | N/A                                                          |
| 4.   | Adapter   | Honeywell  | ADS-12B-06<br>05010E | FCC sDoC    | N/A        | N/A                                                          |

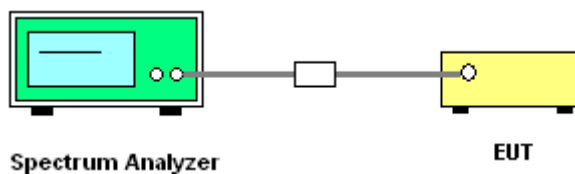
## 2.4 Test Setup

EUT was set in the Hidden menu mode to enable RLAN communications.

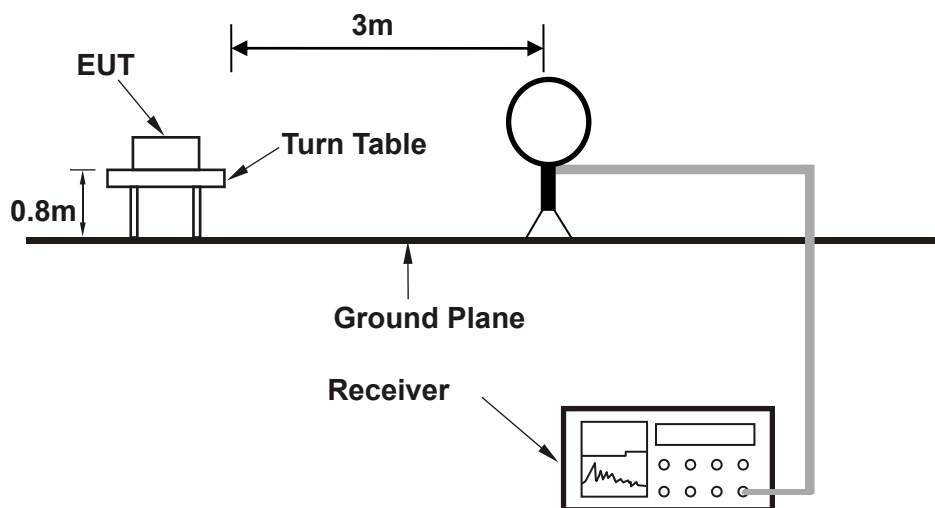
The following picture is a screenshot of the test software



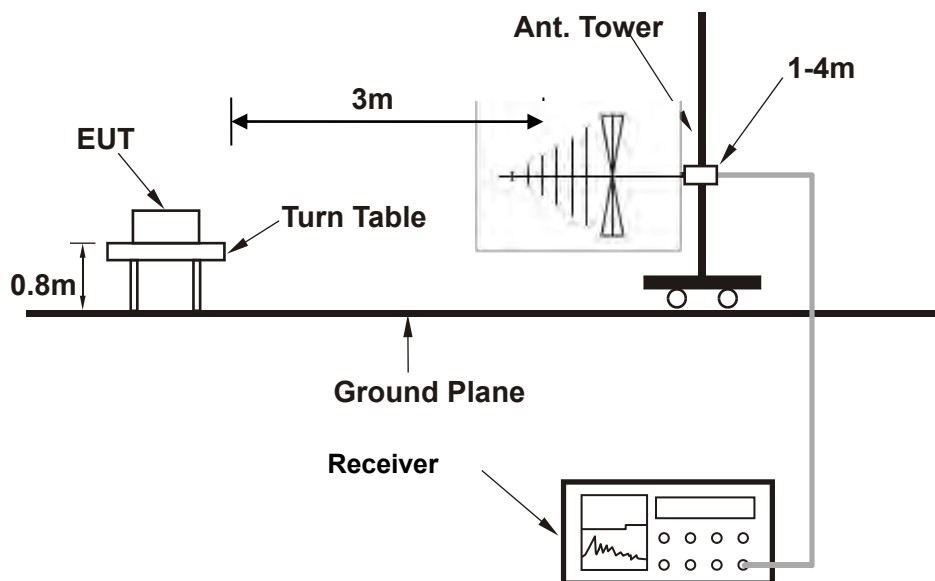
### Setup diagram for Conducted Test



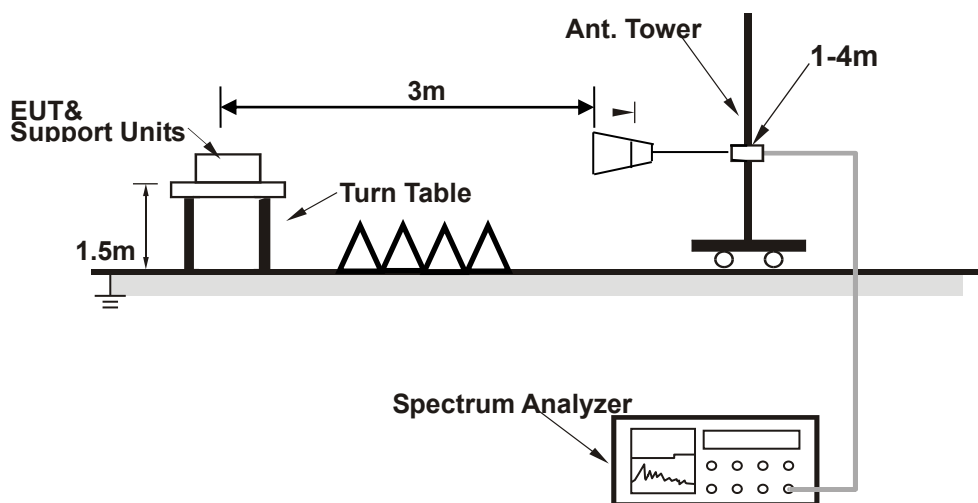
### Setup diagram for Radiation(9KHz~30MHz) Test



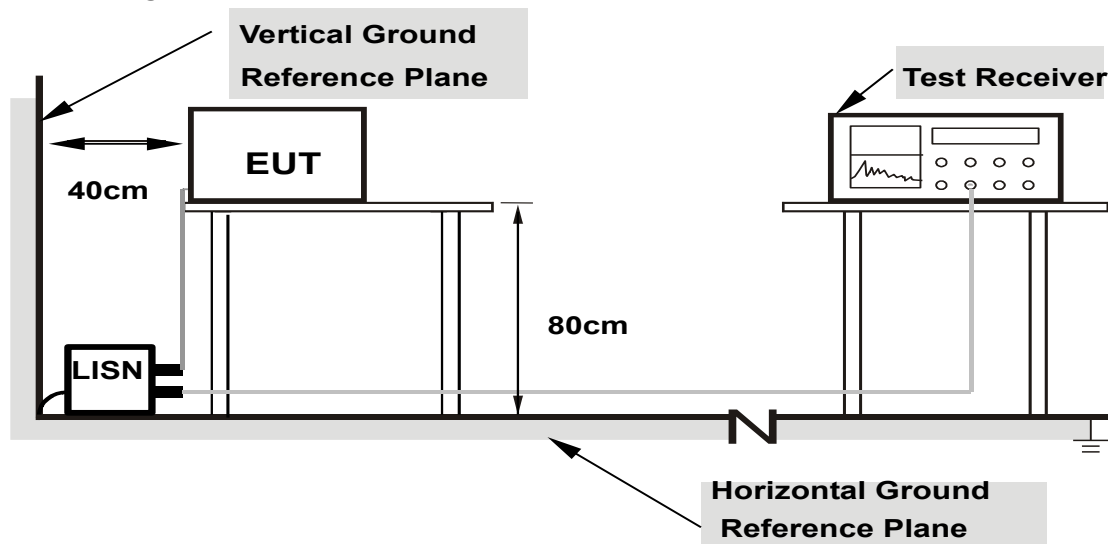
### Setup diagram for Radiation(Below 1G) Test



### Setup diagram for Radiation(Above1G) Test



### Setup diagram for AC Conducted Emission Test



- Note:**
- 1.Support units were connected to second LISN.
  - 2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes



## 2.5 Measurement Results Explanation Example

### For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

#### Example:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

*Offset = RF cable loss + attenuator factor.*

Following shows an offset computation example with cable loss 5 dB and 10dB attenuator.

$$\begin{aligned}\text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)} \\ &= 5 + 10 = 15 \text{ (dB)}\end{aligned}$$

### For all radiated test items:

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level

Over Limit (dB  $\mu$  V/m) = Level(dB  $\mu$  V/m) - Limit Level (dB  $\mu$  V/m)

### **3 Test Result**

#### **3.1 26dB , 6dB and 99% Occupied Bandwidth Measurement**

##### **3.1.1 Limit of 26dB ,6dB and 99% Bandwidth**

There is no limit bandwidth for U-NII-1, U-NII-2-A and U-NII-2-C.

The minimum 6 dB bandwidth shall be at least 500 kHz for U-NII-3.

##### **3.1.2 Test Procedures**

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the Antenna port to the spectrum analyzer.
4. 26dB Band width Measurement: Set the spectrum analyzer as 1% of emission BW Sweep=auto,Detector = Peak, Trace Mode = Max Hold, Manually readjust RBW until the RBW/EBW ratio is 1% based on EBW as observed on the result of pre-sequence measurement.
5. Mark the peak frequency and –6dB (upper and lower) frequency.
6. Repeat the procedures as list above until all test default channels (low, middle, and high) are completed.
7. Measure and record the results in the test report.

##### **3.1.3 Test Result of 26dB Bandwidth**

Refer to Appendix A1 of this test report.

##### **3.1.4 Test Result of 99% Bandwidth**

Refer to Appendix A2 of this test report.

##### **3.1.5 Test Result of 6dB Bandwidth**

Refer to Appendix A3 of this test report.

## 3.2 Maximum Conducted Output Power Measurement

### 3.2.1 Limit of Output Power

#### FCC

| Operation Band | EUT Category |                                   | Limit                             |
|----------------|--------------|-----------------------------------|-----------------------------------|
| U-NII-1        |              | Access Point(Mater Device)        | 1 Watt(30dBm)                     |
|                |              | Fixed point-to-point Acess Ponit  | 1 Watt(30dBm)                     |
|                | √            | Mobile and portable clinet device | 250mW(23.98dBm)                   |
| U-NII-2A       | √            |                                   | 250mW(23.98dBm) or 11dBm+10 log B |
| U-NII-2C       | √            |                                   | 250mW(23.98dBm) or 11dBm+10 log B |
| U-NII-3        | √            |                                   | 1 W(30dBm)                        |

#### IC

| Operation Frequency Band        | Limit                                                                                                             |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------|
| 5150~5250 MHz                   | EIRP shall not exceed 200 mW or 10 + 10 logB, dBm                                                                 |
| 5250~5350 MHz                   | Conducted output power shall not exceed 250 mW or 11 +10 logB<br>EIRP shall not exceed 1.0 W or 17 + 10 logB, dBm |
| 5470~5600 MHz and 5650~5725 MHz | Conducted output power shall not exceed 250 mW or 11 +10 logB<br>EIRP shall not exceed 1.0 W or 17 + 10 logB, dBm |
| 5725~5850 MHz                   | The maximum conducted output power over the frequency band of operation shall not exceed 1 W.                     |

If transmitting antennas of directional gain greater than 6 dBi are used, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the direction-al gain of the antenna exceeds 6 dBi.

### 3.2.2 Test Procedures

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the Spectrum Analyzer.
4. Spectrum Analyzer is used as the auxiliary test equipment to conduct the output power measurement.
5. Set span to encompass the entire emission bandwidth (EBW) of the signal. Set sweep trigger to "free run.", RBW = 1 MHz, Set VBW  $\geq 1/T$ , where T refers to the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation, Sweep time = auto, Detector = peak..
6. Video filtering shall be applied to power signal (rms), it shall be set to operate on a linear voltage signal.
7. Trace mode = max hold. Allow max hold to run for at least 60 seconds
8. Repeat above procedures until all frequency (low, middle, and high channel) measured were complete.

### 3.2.3 Test Result of Output Power

Refer to Appendix B1 of this test report.

### 3.2.4 Test Result of E.I.R.P

Refer to Appendix B2 of this test report.

### 3.3 Power Spectral Density Measurement

#### 3.3.1 Limits of Power Spectral Density

##### FCC

| Operztion Band | EUT Category |                                   | Limit         |
|----------------|--------------|-----------------------------------|---------------|
| U-NII-1        |              | Access Point(Mater Device)        | 17dBm/MHz     |
|                |              | Fixed point-to-point Acess Ponit  |               |
|                | √            | Mobile and portable clinet device | 11dBm/ MHz    |
| U-NII-2A       | √            |                                   | 11dBm/ MHz    |
| U-NII-2C       | √            |                                   | 11dBm/ MHz    |
| U-NII-3        | √            |                                   | 30 dBm/500kHz |

##### IC

| Operztion Frequency Band        | Limit                              |
|---------------------------------|------------------------------------|
| 5150~5250 MHz                   | EIRP spectral density 10 dBm / MHz |
| 5250~5350 MHz                   | 11dBm / MHz                        |
| 5470~5600 MHz and 5650~5725 MHz | 11dBm / MHz                        |
| 5725~5850 MHz                   | 30 dBm/500kHz                      |

If transmitting antennas of directional gain greater than 6 dBi are used, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

### 3.3.2 Test Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to Spectrum.
4. Set RBW=1MHz, VBW=3MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto (601 pts), detector = RMS, traces 100 sweeps of video averaging(SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)
5. Use the cursor on spectrum to peak search the highest level of trace.
6. Record the max. reading and add 10 log(1/duty cycle).
7. Repeat above procedures until all default test channel (low, middle, and high) was complete.

### 3.3.3 Test Result of Power Spectral Density

Refer to Appendix C of this test report.

### 3.4 Unwanted Emissions Measurement

This section as specified in FCC Part 15.407(b) is to measure unwanted emissions through radiated measurement for band edge spurious emissions and out of band emissions measurement. The unwanted emissions shall comply with 15.407(b)(1) to (6), and restricted bands per FCC Part 15.205.

#### 3.4.1 Limit of Unwanted Emissions

(1) For transmitters operating in the 5150-5250 MHz band: all emissions outside of the 5150-5350MHz band shall not exceed an EIRP of  $-27\text{dBm/MHz}$ .

For transmitters operating in the 5250-5350 MHz band: all emissions outside of the 5150-5350MHz band shall not exceed an EIRP of  $-27\text{ dBm/MHz}$ . Devices operating in the 5250-5350 MHz band that generate emissions in the 5150-5250 MHz band must meet all applicable technical requirements for operation in the 5150-5250 MHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of  $-27\text{ dBm/MHz}$  in the 5150-5250 MHz band.

For transmitters operating in the 5470-5600 MHz and 5650-5725MHz band: all emissions outside of the 5470-5600 MHz and 5650-5725MHz band shall not exceed an EIRP of  $-27\text{ dBm/MHz}$ .

For transmitters operating in the 5.725-5.85 GHz band:

15.407(b)(4)(i) All emissions shall be limited to a level of  $-27\text{ dBm/MHz}$  at 75 MHz or more above or below the band edge increasing linearly to  $10\text{ dBm/MHz}$  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  $15.6\text{ dBm/MHz}$  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  $27\text{ dBm/MHz}$  at the band edge.

(2) Unwanted spurious emissions fallen in restricted bands shall comply with the general field strength limits as below table

| Frequency<br>(MHz) | Field Strength<br>(microvolts/meter) | Measurement Distance<br>(meters) |
|--------------------|--------------------------------------|----------------------------------|
| 0.009 – 0.490      | 2400/F(kHz)                          | 300                              |
| 0.490 – 1.705      | 24000/F(kHz)                         | 30                               |
| 1.705 – 30.0       | 30                                   | 30                               |
| 30 – 88            | 100                                  | 3                                |
| 88 – 216           | 150                                  | 3                                |
| 216 - 960          | 200                                  | 3                                |
| Above 960          | 500                                  | 3                                |

**Note:** The following formula is used to convert the EIRP to field strength.

$$E = \frac{1000000\sqrt{30P}}{3} \mu\text{V/m, where } P \text{ is the eirp (Watts)}$$

| EIRP (dBm) | Field Strength at 3m (dBμV/m) |
|------------|-------------------------------|
| -17        | 78.3                          |
| -27        | 68.3                          |

### 3.4.2 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section G) Unwanted emissions measurement.

(1) Procedure for Unwanted Emissions Measurements Below 1000MHz

- RBW = 120 kHz
- VBW = 300 kHz
- Detector = Peak
- Trace mode = max hold

(2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz

- RBW = 1 MHz
- VBW ≥ 3 MHz
- Detector = Peak
- Sweep time = auto
- Trace mode = max hold

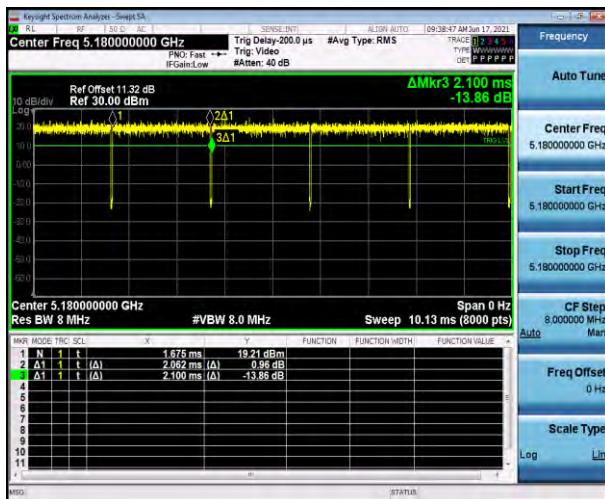
(3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz

- RBW = 1 MHz
- VBW = 10 Hz, when duty cycle is no less than 98 percent.
- VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its

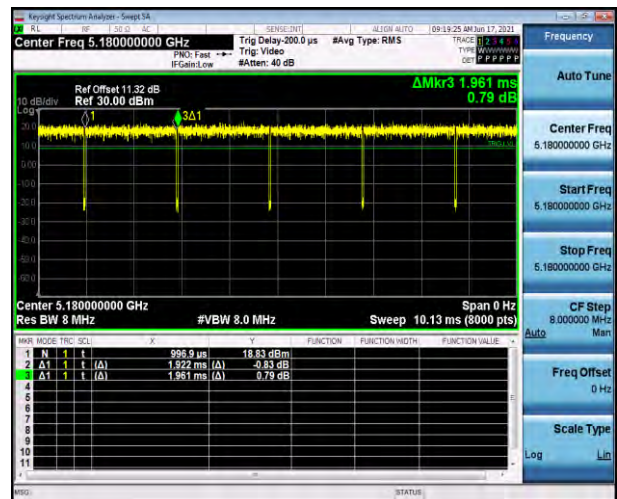
maximum power control level for the tested mode of operation.

2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground..
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

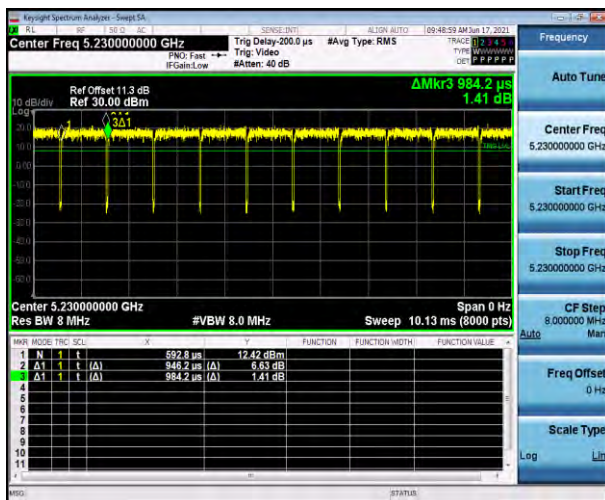
| Band          | Duty Cycle(%) | T(ms) | 1/T(kHz) | VBW Setting |
|---------------|---------------|-------|----------|-------------|
| 802.11a       | 98.10         | -     |          | 10Hz        |
| 802.11n HT20  | 97.96         | 1.92  | 0.52     | 1kHz        |
| 802.11n HT40  | 96.94         | 0.95  | 1.05     | 3kHz        |
| 802.11ac HT20 | 97.97         | 1.93  | 0.52     | 1kHz        |
| 802.11ac HT40 | 95.96         | 0.95  | 1.05     | 3kHz        |
| 802.11ac HT80 | 92            | 0.46  | 2.17     | 3kHz        |



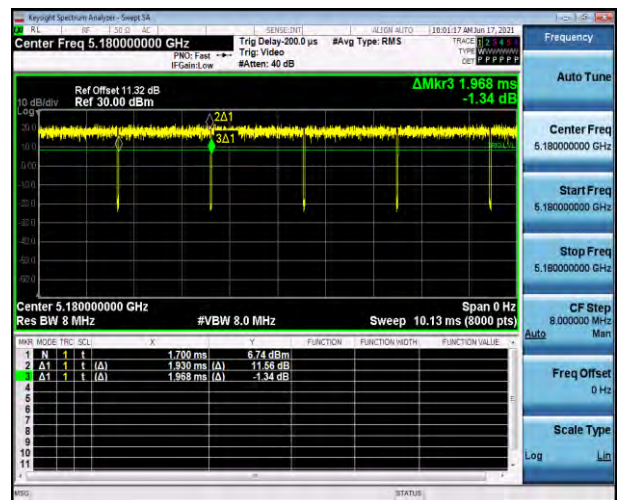
802.11a



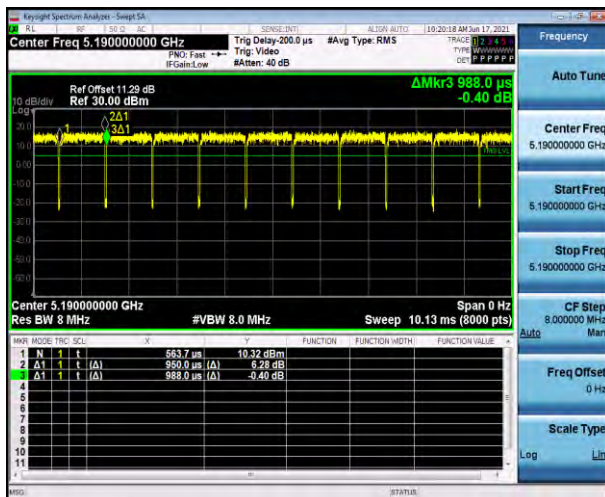
802.11ac HT20



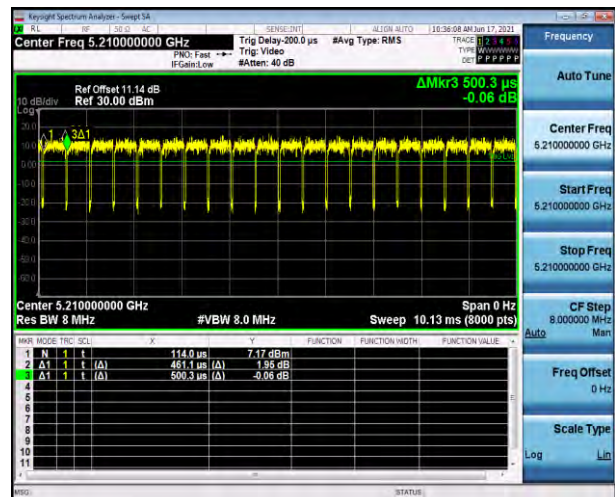
802.11ac HT40



802.11ac VHT20



802.11ac VHT40



802.11ac VHT80

8. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level

### 3.4.3 Test Results of Radiated Spurious Emissions (9 kHz ~ 30 MHz)

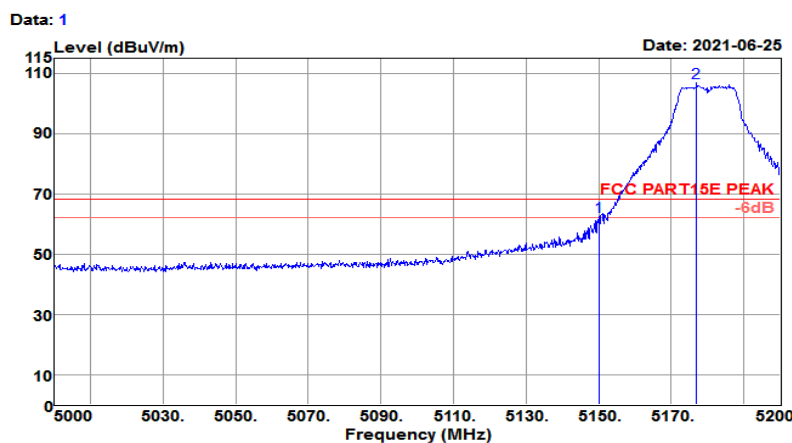
The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.



### 3.4.4 Test Result of Radiated Spurious at Band Edges

|                 |                      |                     |            |
|-----------------|----------------------|---------------------|------------|
| Test Mode :     | 802.11a CH36 5180MHz | Temperature :       | 19~23℃     |
| Test Engineer : | Jack Liu             | Relative Humidity : | 59~62%     |
| Frequency Range | 5.0GHz~5.20GHz       | Polarization :      | Horizontal |

|                                    |                        |
|------------------------------------|------------------------|
| Test Site : 3m Chamber             | Temp/Humi : 21℃/60%    |
| Tested by : Jack                   | Pol/Phase : HORIZONTAL |
| Test Mode : 802.11a CH36 (5180MHz) | Power rating: DC 3.85W |



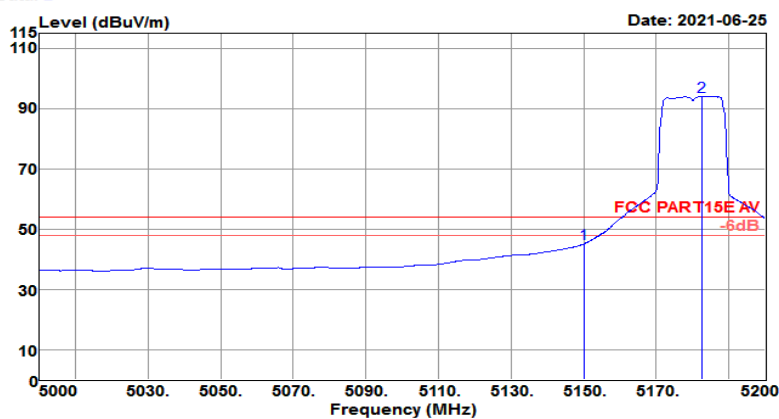
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|--------|
| 5150.000    | 56.78                    | 31.32                     | 8.17                | 33.98                  | 62.29           | 68.20                    | -5.91               | Peak   |
| 5177.000    | 101.20                   | 31.34                     | 8.21                | 33.99                  | 106.76          | 68.20                    | 38.56               | Peak   |



|                 |                      |                     |            |
|-----------------|----------------------|---------------------|------------|
| Test Mode :     | 802.11a CH36 5180MHz | Temperature :       | 19~23℃     |
| Test Engineer : | Jack Liu             | Relative Humidity : | 59~62%     |
| Frequency Range | 5.0GHz~5.20GHz       | Polarization :      | Horizontal |

|           |                          |               |              |
|-----------|--------------------------|---------------|--------------|
| Test Site | : 3m Chamber             | Temp/Humi     | : 21℃/60%    |
| Tested by | : Jack                   | Pol/Phase     | : HORIZONTAL |
| Test Mode | : 802.11a CH36 (5180MHz) | Power rating: | DC 3.85V     |

Data: 2

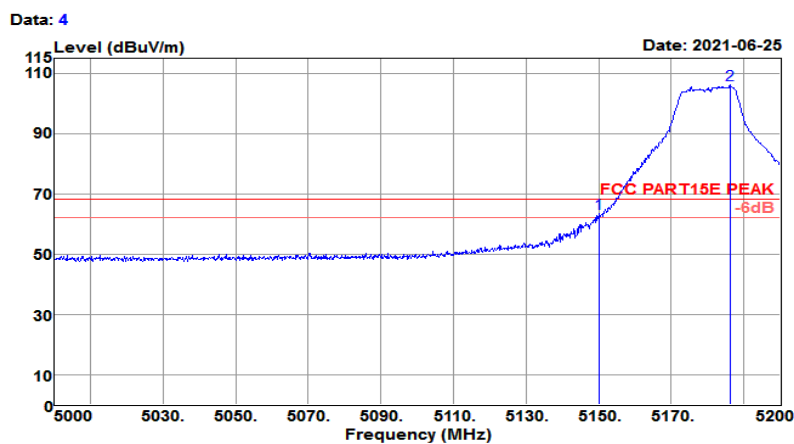


| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark  |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|---------|
| 5150.000    | 39.50                    | 31.32                     | 8.17                | 33.98                  | 45.01           | 54.00                    | -8.99               | Average |
| 5182.600    | 88.52                    | 31.35                     | 8.22                | 33.99                  | 94.10           | 54.00                    | 40.10               | Average |



|                 |                      |                     |          |
|-----------------|----------------------|---------------------|----------|
| Test Mode :     | 802.11a CH36 5180MHz | Temperature :       | 19~23℃   |
| Test Engineer : | Jack Liu             | Relative Humidity : | 59~62%   |
| Frequency Range | 5.0GHz~5.20GHz       | Polarization :      | Vertical |

|           |                          |               |            |
|-----------|--------------------------|---------------|------------|
| Test Site | : 3m Chamber             | Temp/Humi     | : 21℃/60%  |
| Tested by | : Jack                   | Pol/Phase     | : VERTICAL |
| Test Mode | : 802.11a CH36 (5180MHz) | Power rating: | DC 3.85V   |



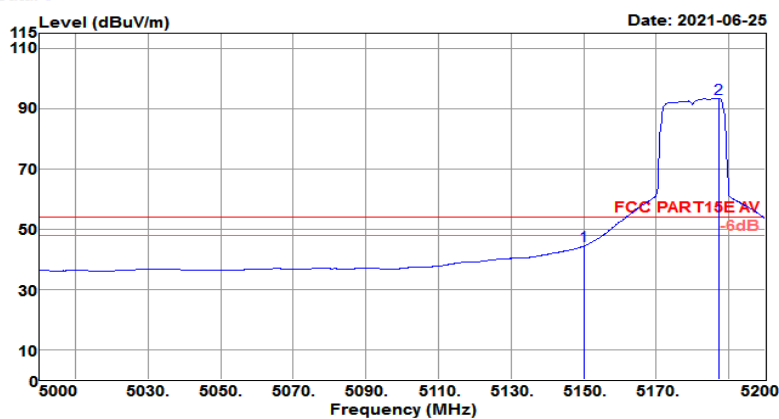
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|--------|
| 5150.000    | 57.95                    | 31.32                     | 8.17                | 33.98                  | 63.46           | 68.20                    | -4.74               | Peak   |
| 5186.400    | 100.46                   | 31.35                     | 8.23                | 33.99                  | 106.05          | 68.20                    | 37.85               | Peak   |



|                 |                      |                     |          |
|-----------------|----------------------|---------------------|----------|
| Test Mode :     | 802.11a CH36 5180MHz | Temperature :       | 19~23℃   |
| Test Engineer : | Jack Liu             | Relative Humidity : | 59~62%   |
| Frequency Range | 5.0GHz~5.20GHz       | Polarization :      | Vertical |

|           |                          |               |            |
|-----------|--------------------------|---------------|------------|
| Test Site | : 3m Chamber             | Temp/Humi     | : 21℃/60%  |
| Tested by | : Jack                   | Pol/Phase     | : VERTICAL |
| Test Mode | : 802.11a CH36 (5180MHz) | Power rating: | DC 3.85V   |

Data: 5



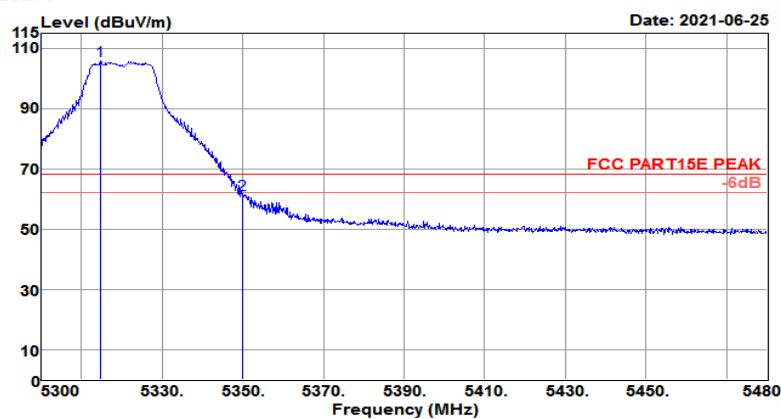
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark  |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|---------|
| 5150.000    | 38.79                    | 31.32                     | 8.17                | 33.98                  | 44.30           | 54.00                    | -9.70               | Average |
| 5187.400    | 87.84                    | 31.35                     | 8.23                | 33.99                  | 93.43           | 54.00                    | 39.43               | Average |



|                 |                      |                     |            |
|-----------------|----------------------|---------------------|------------|
| Test Mode :     | 802.11a CH64 5320MHz | Temperature :       | 19~23℃     |
| Test Engineer : | Jack Liu             | Relative Humidity : | 59~62%     |
| Frequency Range | 5.3GHz~5.48GHz       | Polarization :      | Horizontal |

|                                    |                        |
|------------------------------------|------------------------|
| Test Site : 3m Chamber             | Temp/Humi : 21℃/60%    |
| Tested by : Jack                   | Pol/Phase : HORIZONTAL |
| Test Mode : 802.11a CH64 (5320MHz) | Power rating: DC 3.85V |

Data: 9



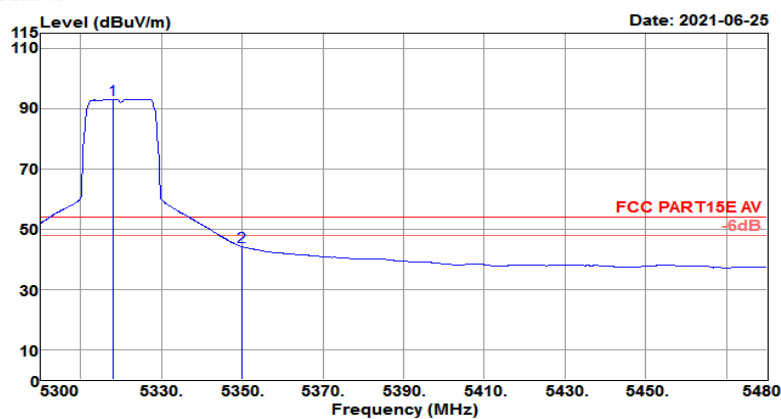
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|--------|
| 5314.760    | 99.67                    | 31.45                     | 8.70                | 34.06                  | 105.76          | 68.20                    | 37.56               | Peak   |
| 5350.000    | 55.02                    | 31.48                     | 8.84                | 34.08                  | 61.26           | 68.20                    | -6.94               | Peak   |



|                 |                      |                     |            |
|-----------------|----------------------|---------------------|------------|
| Test Mode :     | 802.11a CH64 5320MHz | Temperature :       | 19~23℃     |
| Test Engineer : | Jack Liu             | Relative Humidity : | 59~62%     |
| Frequency Range | 5.3GHz~5.48GHz       | Polarization :      | Horizontal |

|                                    |                        |
|------------------------------------|------------------------|
| Test Site : 3m Chamber             | Temp/Humi : 21℃/60%    |
| Tested by : Jack                   | Pol/Phase : HORIZONTAL |
| Test Mode : 802.11a CH64 (5320MHz) | Power rating: DC 3.85V |

Data: 10



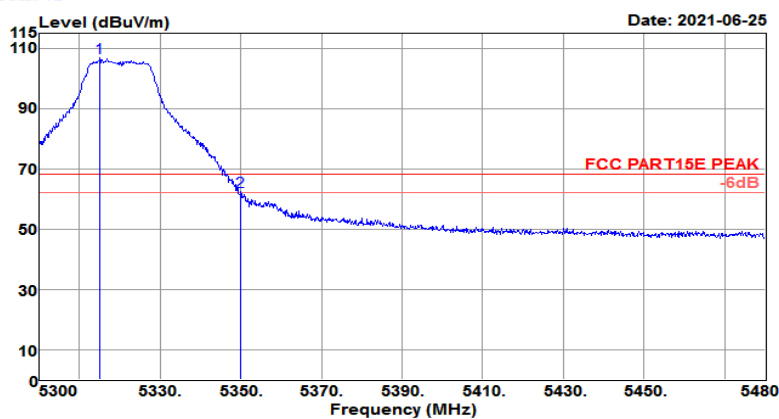
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark  |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|---------|
| 5318.180    | 87.03                    | 31.45                     | 8.71                | 34.06                  | 93.13           | 54.00                    | 39.13               | Average |
| 5350.000    | 37.88                    | 31.48                     | 8.84                | 34.08                  | 44.12           | 54.00                    | -9.88               | Average |



|                 |                      |                     |          |
|-----------------|----------------------|---------------------|----------|
| Test Mode :     | 802.11a CH64 5320MHz | Temperature :       | 19~23℃   |
| Test Engineer : | Jack Liu             | Relative Humidity : | 59~62%   |
| Frequency Range | 5.3GHz~5.48GHz       | Polarization :      | Vertical |

|                                    |                        |
|------------------------------------|------------------------|
| Test Site : 3m Chamber             | Temp/Humi : 21℃/60%    |
| Tested by : Jack                   | Pol/Phase : VERTICAL   |
| Test Mode : 802.11a CH64 (5320MHz) | Power rating: DC 3.85V |

Data: 12



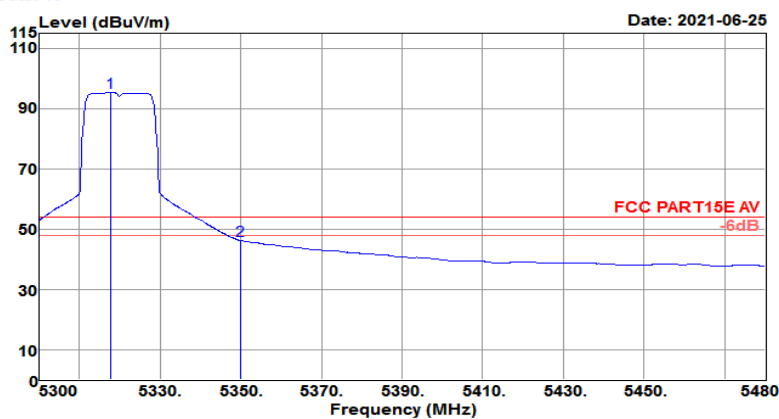
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|--------|
| 5315.120    | 100.93                   | 31.45                     | 8.70                | 34.06                  | 107.02          | 68.20                    | 38.82               | Peak   |
| 5350.000    | 56.17                    | 31.48                     | 8.84                | 34.08                  | 62.41           | 68.20                    | -5.79               | Peak   |



|                 |                      |                     |          |
|-----------------|----------------------|---------------------|----------|
| Test Mode :     | 802.11a CH64 5320MHz | Temperature :       | 19~23℃   |
| Test Engineer : | Jack Liu             | Relative Humidity : | 59~62%   |
| Frequency Range | 5.3GHz~5.48GHz       | Polarization :      | Vertical |

|           |                          |               |            |
|-----------|--------------------------|---------------|------------|
| Test Site | : 3m Chamber             | Temp/Humi     | : 21℃/60%  |
| Tested by | : Jack                   | Pol/Phase     | : VERTICAL |
| Test Mode | : 802.11a CH64 (5320MHz) | Power rating: | DC 3.85V   |

Data: 13



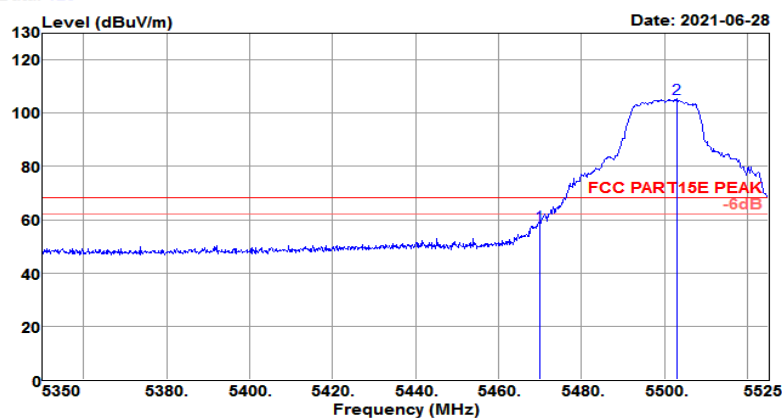
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark  |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|---------|
| 5317.640    | 89.18                    | 31.45                     | 8.71                | 34.06                  | 95.28           | 54.00                    | 41.28               | Average |
| 5350.000    | 39.86                    | 31.48                     | 8.84                | 34.08                  | 46.10           | 54.00                    | -7.90               | Average |



|                 |                       |                     |            |
|-----------------|-----------------------|---------------------|------------|
| Test Mode :     | 802.11a CH100 5500MHz | Temperature :       | 19~23℃     |
| Test Engineer : | Jack Liu              | Relative Humidity : | 59~62%     |
| Frequency Range | 5.35GHz~5.525GHz      | Polarization :      | Horizontal |

|           |                           |               |              |
|-----------|---------------------------|---------------|--------------|
| Test Site | : 3m Chamber              | Temp/Humi     | : 23℃/59%    |
| Tested by | : Jack                    | Pol/Phase     | : HORIZONTAL |
| Test Mode | : 802.11a CH100 (5500MHz) | Power rating: | DC 3.85V     |

Data: 126



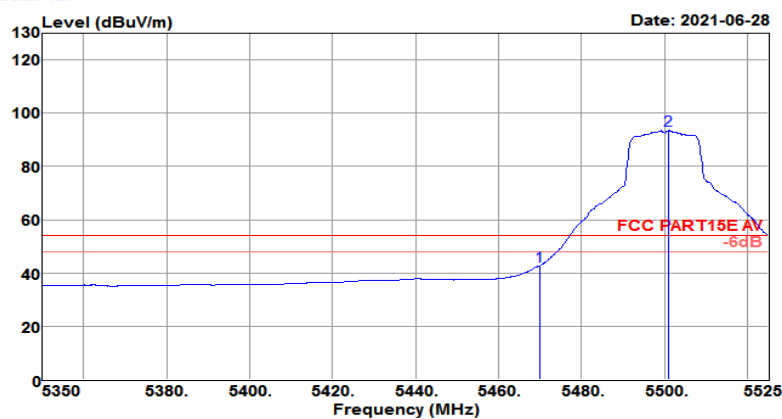
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|--------|
| 5470.000    | 51.73                    | 31.58                     | 8.86                | 34.14                  | 58.03           | 68.20                    | -10.17              | Peak   |
| 5502.950    | 99.07                    | 31.60                     | 8.78                | 34.15                  | 105.30          | 68.20                    | 37.10               | Peak   |



|                 |                       |                     |            |
|-----------------|-----------------------|---------------------|------------|
| Test Mode :     | 802.11a CH100 5500MHz | Temperature :       | 19~23℃     |
| Test Engineer : | Jack Liu              | Relative Humidity : | 59~62%     |
| Frequency Range | 5.35GHz~5.525GHz      | Polarization :      | Horizontal |

|                                     |                        |
|-------------------------------------|------------------------|
| Test Site : 3m Chamber              | Temp/Humi : 23℃/59%    |
| Tested by : Jack                    | Pol/Phase : HORIZONTAL |
| Test Mode : 802.11a CH100 (5500MHz) | Power rating: DC 3.85V |

Data: 127



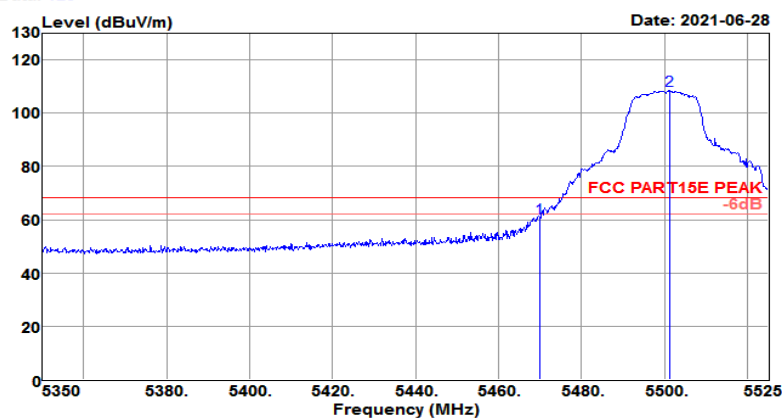
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark  |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|---------|
| 5470.000    | 36.44                    | 31.58                     | 8.86                | 34.14                  | 42.74           | 54.00                    | -11.26              | Average |
| 5501.025    | 87.28                    | 31.60                     | 8.78                | 34.15                  | 93.51           | 54.00                    | 39.51               | Average |



|                 |                       |                     |          |
|-----------------|-----------------------|---------------------|----------|
| Test Mode :     | 802.11a CH100 5500MHz | Temperature :       | 19~23℃   |
| Test Engineer : | Jack Liu              | Relative Humidity : | 59~62%   |
| Frequency Range | 5.35GHz~5.525GHz      | Polarization :      | Vertical |

|           |                           |               |            |
|-----------|---------------------------|---------------|------------|
| Test Site | : 3m Chamber              | Temp/Humi     | : 23℃/59%  |
| Tested by | : Jack                    | Pol/Phase     | : VERTICAL |
| Test Mode | : 802.11a CH100 (5500MHz) | Power rating: | DC 3.85V   |

Data: 123



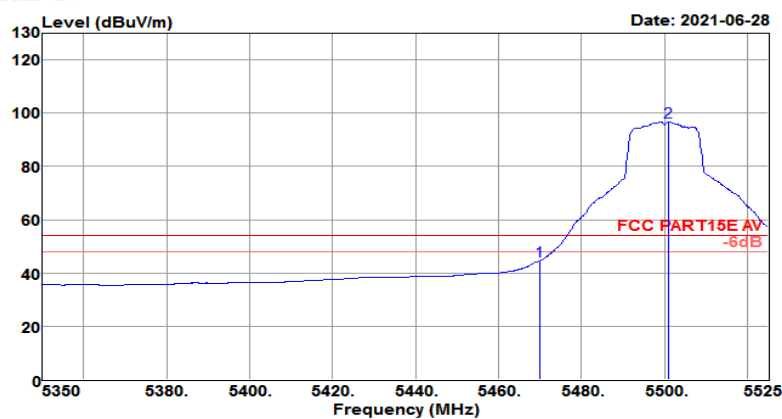
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|--------|
| 5470.000    | 54.39                    | 31.58                     | 8.86                | 34.14                  | 60.69           | 68.20                    | -7.51               | Peak   |
| 5501.200    | 102.36                   | 31.60                     | 8.78                | 34.15                  | 108.59          | 68.20                    | 40.39               | Peak   |



|                 |                       |                     |          |
|-----------------|-----------------------|---------------------|----------|
| Test Mode :     | 802.11a CH100 5500MHz | Temperature :       | 19~23℃   |
| Test Engineer : | Jack Liu              | Relative Humidity : | 59~62%   |
| Frequency Range | 5.35GHz~5.525GHz      | Polarization :      | Vertical |

|           |                           |               |            |
|-----------|---------------------------|---------------|------------|
| Test Site | : 3m Chamber              | Temp/Humi     | : 23℃/59%  |
| Tested by | : Jack                    | Pol/Phase     | : VERTICAL |
| Test Mode | : 802.11a CH100 (5500MHz) | Power rating: | DC 3.85V   |

Data: 124



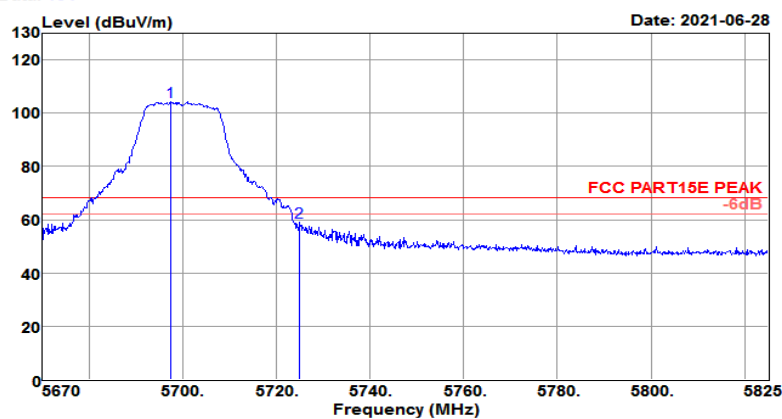
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark  |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|---------|
| 5470.000    | 38.28                    | 31.58                     | 8.86                | 34.14                  | 44.58           | 54.00                    | -9.42               | Average |
| 5501.025    | 90.56                    | 31.60                     | 8.78                | 34.15                  | 96.79           | 54.00                    | 42.79               | Average |



|                 |                       |                     |            |
|-----------------|-----------------------|---------------------|------------|
| Test Mode :     | 802.11a CH140 5700MHz | Temperature :       | 19~23℃     |
| Test Engineer : | Jack Liu              | Relative Humidity : | 59~62%     |
| Frequency Range | 5.67GHz~5.825GHz      | Polarization :      | Horizontal |

|                                     |                        |
|-------------------------------------|------------------------|
| Test Site : 3m Chamber              | Temp/Humi : 23℃/59%    |
| Tested by : Jack                    | Pol/Phase : HORIZONTAL |
| Test Mode : 802.11a CH140 (5700MHz) | Power rating: DC 3.85V |

Data: 134



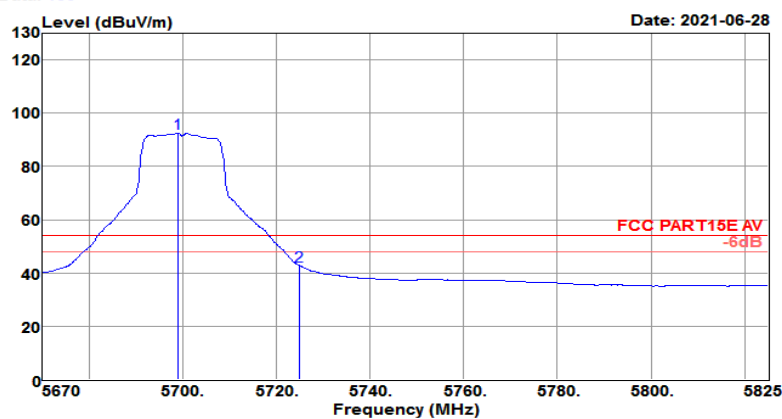
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|--------|
| 5697.590    | 98.62                    | 31.92                     | 7.96                | 34.25                  | 104.25          | 68.20                    | 36.05               | Peak   |
| 5725.000    | 53.55                    | 31.96                     | 7.80                | 34.26                  | 59.05           | 68.20                    | -9.15               | Peak   |



|                 |                       |                     |            |
|-----------------|-----------------------|---------------------|------------|
| Test Mode :     | 802.11a CH140 5700MHz | Temperature :       | 19~23℃     |
| Test Engineer : | Jack Liu              | Relative Humidity : | 59~62%     |
| Frequency Range | 5.67GHz~5.825GHz      | Polarization :      | Horizontal |

|           |                           |               |              |
|-----------|---------------------------|---------------|--------------|
| Test Site | : 3m Chamber              | Temp/Humi     | : 23℃/59%    |
| Tested by | : Jack                    | Pol/Phase     | : HORIZONTAL |
| Test Mode | : 802.11a CH140 (5700MHz) | Power rating: | DC 3.85V     |

Data: 135



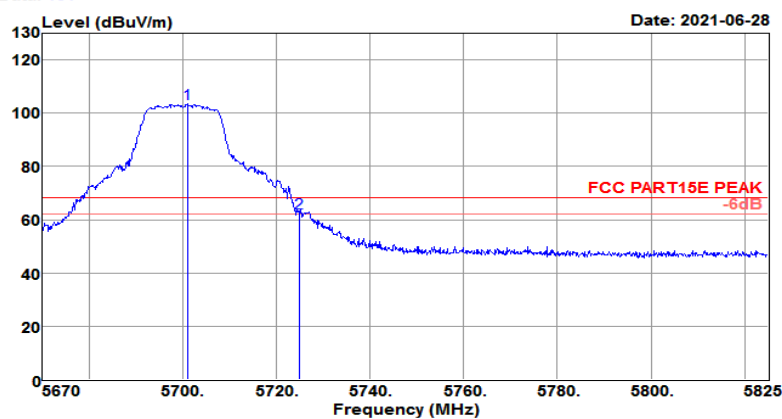
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark  |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|---------|
| 5698.985    | 86.83                    | 31.92                     | 7.95                | 34.25                  | 92.45           | 54.00                    | 38.45               | Average |
| 5725.000    | 37.16                    | 31.96                     | 7.80                | 34.26                  | 42.66           | 54.00                    | -11.34              | Average |



|                 |                       |                     |          |
|-----------------|-----------------------|---------------------|----------|
| Test Mode :     | 802.11a CH140 5700MHz | Temperature :       | 19~23℃   |
| Test Engineer : | Jack Liu              | Relative Humidity : | 59~62%   |
| Frequency Range | 5.67GHz~5.825GHz      | Polarization :      | Vertical |

|           |                           |               |            |
|-----------|---------------------------|---------------|------------|
| Test Site | : 3m Chamber              | Temp/Humi     | : 23℃/59%  |
| Tested by | : Jack                    | Pol/Phase     | : VERTICAL |
| Test Mode | : 802.11a CH140 (5700MHz) | Power rating: | DC 3.85V   |

Data: 131



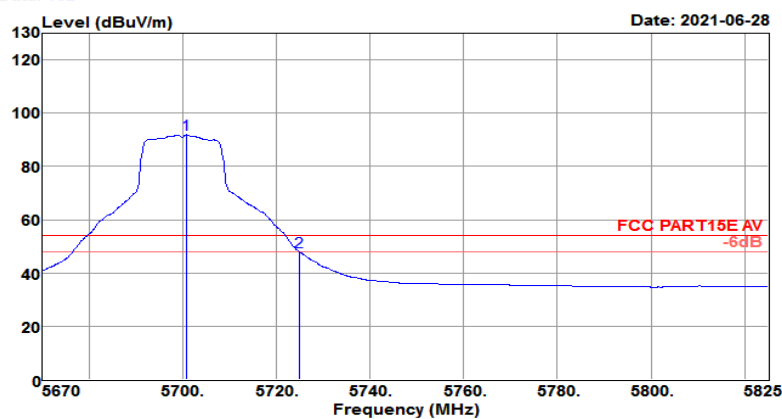
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|--------|
| 5701.000    | 97.85                    | 31.92                     | 7.94                | 34.25                  | 103.46          | 68.20                    | 35.26               | Peak   |
| 5725.000    | 57.15                    | 31.96                     | 7.80                | 34.26                  | 62.65           | 68.20                    | -5.55               | Peak   |



|                 |                       |                     |          |
|-----------------|-----------------------|---------------------|----------|
| Test Mode :     | 802.11a CH140 5700MHz | Temperature :       | 19~23℃   |
| Test Engineer : | Jack Liu              | Relative Humidity : | 59~62%   |
| Frequency Range | 5.67GHz~5.825GHz      | Polarization :      | Vertical |

|                                     |                        |
|-------------------------------------|------------------------|
| Test Site : 3m Chamber              | Temp/Humi : 23℃/59%    |
| Tested by : Jack                    | Pol/Phase : VERTICAL   |
| Test Mode : 802.11a CH140 (5700MHz) | Power rating: DC 3.85V |

Data: 132



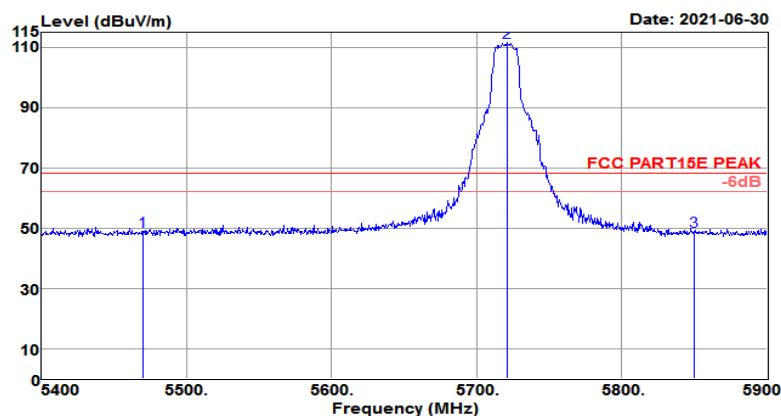
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark  |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|---------|
| 5700.845    | 86.25                    | 31.92                     | 7.94                | 34.25                  | 91.86           | 54.00                    | 37.86               | Average |
| 5725.000    | 42.41                    | 31.96                     | 7.80                | 34.26                  | 47.91           | 54.00                    | -6.09               | Average |



|                 |                       |                     |            |
|-----------------|-----------------------|---------------------|------------|
| Test Mode :     | 802.11a CH144 5720MHz | Temperature :       | 18~21℃     |
| Test Engineer : | Jack Liu              | Relative Humidity : | 59~63%     |
| Frequency Range | 5.4GHz~5.9GHz         | Polarization :      | Horizontal |

|           |                           |              |              |
|-----------|---------------------------|--------------|--------------|
| Test Site | : 3m Chamber              | Temp/Humi    | : 22℃/61%    |
| Tested by | : Jack                    | Pol/Phase    | : HORIZONTAL |
| Test Mode | : 802.11a CH144 (5720MHz) | Power rating | : DC 3.85V   |

Data: 156



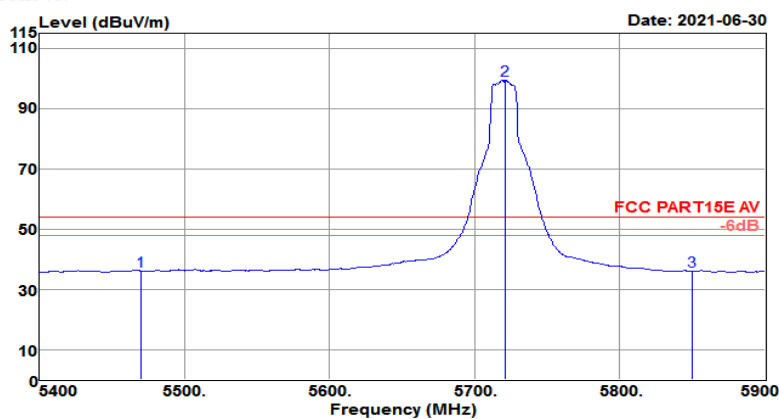
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|--------|
| 5470.000    | 42.54                    | 31.58                     | 8.86                | 34.14                  | 48.84           | 68.20                    | -19.36              | Peak   |
| 5721.000    | 105.96                   | 31.95                     | 7.82                | 34.26                  | 111.47          | 68.20                    | 43.27               | Peak   |
| 5850.000    | 43.49                    | 32.16                     | 7.46                | 34.33                  | 48.78           | 68.20                    | -19.42              | Peak   |



|                 |                       |                     |            |
|-----------------|-----------------------|---------------------|------------|
| Test Mode :     | 802.11a CH144 5720MHz | Temperature :       | 18~21℃     |
| Test Engineer : | Jack Liu              | Relative Humidity : | 59~63%     |
| Frequency Range | 5.4GHz~5.9GHz         | Polarization :      | Horizontal |

|           |                           |               |              |
|-----------|---------------------------|---------------|--------------|
| Test Site | : 3m Chamber              | Temp/Humi     | : 22℃/61%    |
| Tested by | : Jack                    | Pol/Phase     | : HORIZONTAL |
| Test Mode | : 802.11a CH144 (5720MHz) | Power rating: | DC 3.85V     |

Data: 157



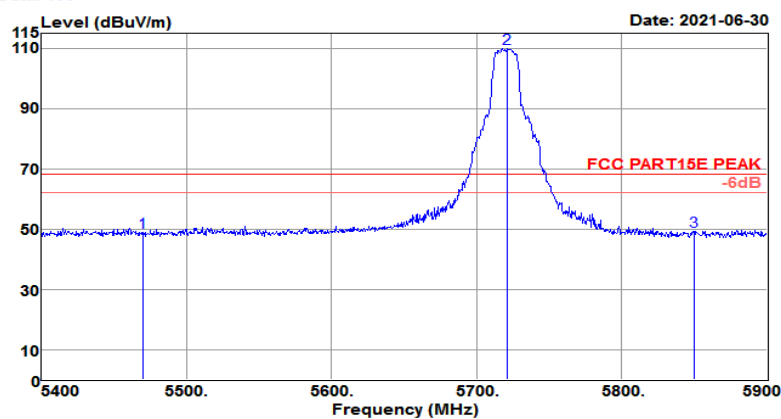
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark  |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|---------|
| 5470.000    | 29.68                    | 31.58                     | 8.86                | 34.14                  | 35.98           | 54.00                    | -18.02              | Average |
| 5721.000    | 94.01                    | 31.95                     | 7.82                | 34.26                  | 99.52           | 54.00                    | 45.52               | Average |
| 5850.000    | 30.69                    | 32.16                     | 7.46                | 34.33                  | 35.98           | 54.00                    | -18.02              | Average |



|                 |                       |                     |          |
|-----------------|-----------------------|---------------------|----------|
| Test Mode :     | 802.11a CH144 5720MHz | Temperature :       | 18~21℃   |
| Test Engineer : | Jack Liu              | Relative Humidity : | 59~63%   |
| Frequency Range | 5.4GHz~5.9GHz         | Polarization :      | Vertical |

|                                     |                        |
|-------------------------------------|------------------------|
| Test Site : 3m Chamber              | Temp/Humi : 22℃/61%    |
| Tested by : Jack                    | Pol/Phase : VERTICAL   |
| Test Mode : 802.11a CH144 (5720MHz) | Power rating: DC 3.85V |

Data: 153



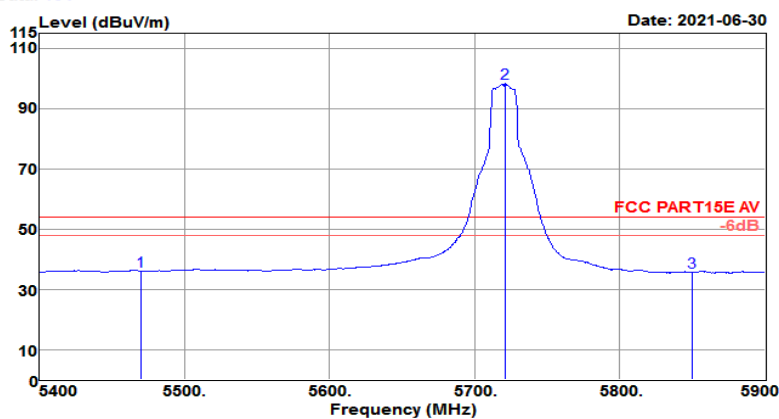
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|--------|
| 5470.000    | 42.63                    | 31.58                     | 8.86                | 34.14                  | 48.93           | 68.20                    | -19.27              | Peak   |
| 5721.000    | 104.43                   | 31.95                     | 7.82                | 34.26                  | 109.94          | 68.20                    | 41.74               | Peak   |
| 5850.000    | 43.75                    | 32.16                     | 7.46                | 34.33                  | 49.04           | 68.20                    | -19.16              | Peak   |



|                 |                       |                     |          |
|-----------------|-----------------------|---------------------|----------|
| Test Mode :     | 802.11a CH144 5720MHz | Temperature :       | 18~21℃   |
| Test Engineer : | Jack Liu              | Relative Humidity : | 59~63%   |
| Frequency Range | 5.4GHz~5.9GHz         | Polarization :      | Vertical |

|           |                           |               |            |
|-----------|---------------------------|---------------|------------|
| Test Site | : 3m Chamber              | Temp/Humi     | : 22℃/61%  |
| Tested by | : Jack                    | Pol/Phase     | : VERTICAL |
| Test Mode | : 802.11a CH144 (5720MHz) | Power rating: | DC 3.85V   |

Data: 154

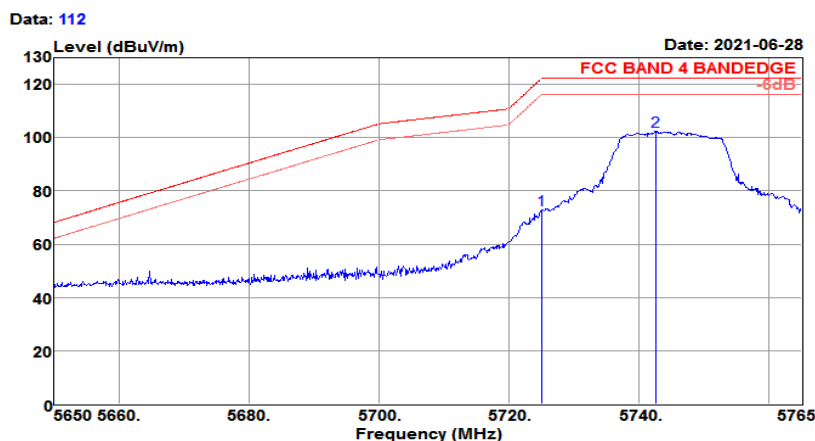


| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark  |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|---------|
| 5470.000    | 29.66                    | 31.58                     | 8.86                | 34.14                  | 35.96           | 54.00                    | -18.04              | Average |
| 5721.000    | 92.82                    | 31.95                     | 7.82                | 34.26                  | 98.33           | 54.00                    | 44.33               | Average |
| 5850.000    | 30.30                    | 32.16                     | 7.46                | 34.33                  | 35.59           | 54.00                    | -18.41              | Average |



|                 |                       |                     |            |
|-----------------|-----------------------|---------------------|------------|
| Test Mode :     | 802.11a CH149 5745MHz | Temperature :       | 19~23℃     |
| Test Engineer : | Jack Liu              | Relative Humidity : | 59~62%     |
| Frequency Range | 5.65GHz~5.765GHz      | Polarization :      | Horizontal |

|           |                           |              |              |
|-----------|---------------------------|--------------|--------------|
| Test Site | : 3m Chamber              | Temp/Humi    | : 19℃/60%    |
| Tested by | : Jack                    | Power rating | : DC 3.85V   |
| Model No. | : CT45-L0N                | Pol/Phase    | : HORIZONTAL |
| EUT       | : Mobile Computer         |              |              |
| Test Mode | : 802.11a CH149 (5745MHz) |              |              |

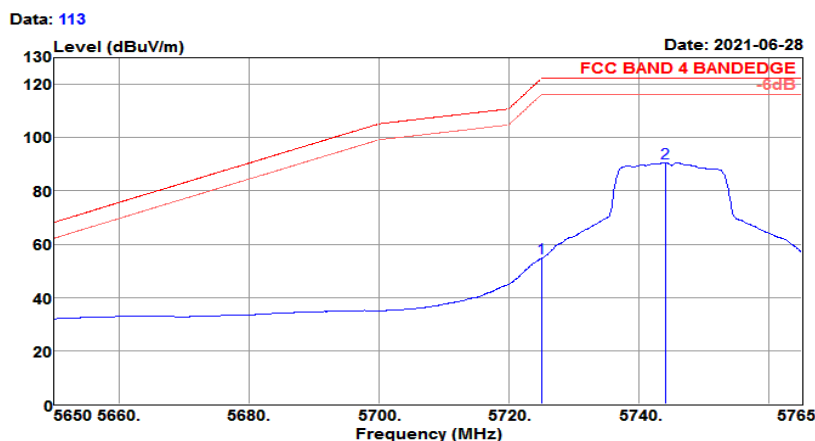


| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dBs/m | Cable<br>loss<br>dB | level<br>dBuA/m | Limit<br>level<br>dBuA/m | Over<br>limit<br>dB | Remark |
|-------------|--------------------------|----------------------------|---------------------|-----------------|--------------------------|---------------------|--------|
| 5725.000    | 68.98                    | 31.96                      | 6.04                | 72.72           | 122.20                   | -49.48              | Peak   |
| 5742.575    | 98.54                    | 31.99                      | 6.05                | 102.31          | 122.20                   | -19.89              | Peak   |



|                 |                       |                     |            |
|-----------------|-----------------------|---------------------|------------|
| Test Mode :     | 802.11a CH149 5745MHz | Temperature :       | 19~23℃     |
| Test Engineer : | Jack Liu              | Relative Humidity : | 59~62%     |
| Frequency Range | 5.65GHz~5.765GHz      | Polarization :      | Horizontal |

|           |                           |              |              |
|-----------|---------------------------|--------------|--------------|
| Test Site | : 3m Chamber              | Temp/Humi    | : 19℃/60%    |
| Tested by | : Jack                    | Power rating | : DC 3.85V   |
| Model No. | : CT45-L0N                | Pol/Phase    | : HORIZONTAL |
| EUT       | : Mobile Computer         |              |              |
| Test Mode | : 802.11a CH149 (5745MHz) |              |              |

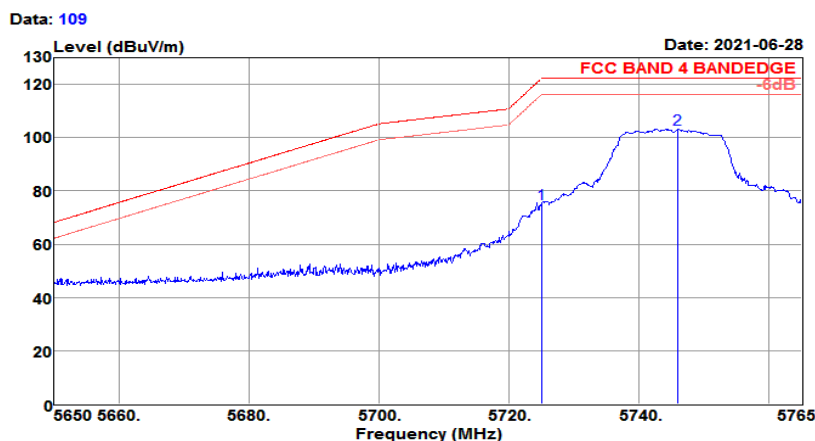


| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dBs/m | Cable<br>loss<br>dB | level<br>dBuA/m | Limit<br>level<br>dBuA/m | Over<br>limit<br>dB | Remark  |
|-------------|--------------------------|----------------------------|---------------------|-----------------|--------------------------|---------------------|---------|
| 5725.000    | 50.96                    | 31.96                      | 6.04                | 54.70           | 122.20                   | -67.50              | Average |
| 5744.070    | 86.90                    | 31.99                      | 6.06                | 90.68           | 122.20                   | -31.52              | Average |



|                 |                       |                     |          |
|-----------------|-----------------------|---------------------|----------|
| Test Mode :     | 802.11a CH149 5745MHz | Temperature :       | 19~23℃   |
| Test Engineer : | Jack Liu              | Relative Humidity : | 59~62%   |
| Frequency Range | 5.65GHz~5.765GHz      | Polarization :      | Vertical |

|           |                           |              |            |
|-----------|---------------------------|--------------|------------|
| Test Site | : 3m Chamber              | Temp/Humi    | : 19℃/60%  |
| Tested by | : Jack                    | Power rating | : DC 3.85V |
| Model No. | : CT45-L0N                | Pol/Phase    | : VERTICAL |
| EUT       | : Mobile Computer         |              |            |
| Test Mode | : 802.11a CH149 (5745MHz) |              |            |

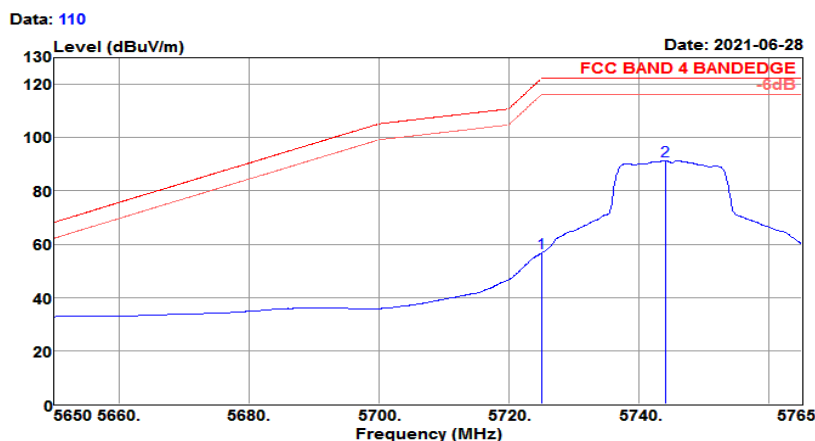


| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dBs/m | Cable<br>loss<br>dB | level<br>dBuA/m | Limit<br>level<br>dBuA/m | Over<br>limit<br>dB | Remark |
|-------------|--------------------------|----------------------------|---------------------|-----------------|--------------------------|---------------------|--------|
| 5725.000    | 71.53                    | 31.96                      | 6.04                | 75.27           | 122.20                   | -46.93              | Peak   |
| 5746.025    | 99.45                    | 31.99                      | 6.06                | 103.23          | 122.20                   | -18.97              | Peak   |



|                 |                       |                     |          |
|-----------------|-----------------------|---------------------|----------|
| Test Mode :     | 802.11a CH149 5745MHz | Temperature :       | 19~23℃   |
| Test Engineer : | Jack Liu              | Relative Humidity : | 59~62%   |
| Frequency Range | 5.6GHz~5.85GHz        | Polarization :      | Vertical |

|           |                           |              |            |
|-----------|---------------------------|--------------|------------|
| Test Site | : 3m Chamber              | Temp/Humi    | : 19℃/60%  |
| Tested by | : Jack                    | Power rating | : DC 3.85V |
| Model No. | : CT45-L0N                | Pol/Phase    | : VERTICAL |
| EUT       | : Mobile Computer         |              |            |
| Test Mode | : 802.11a CH149 (5745MHz) |              |            |

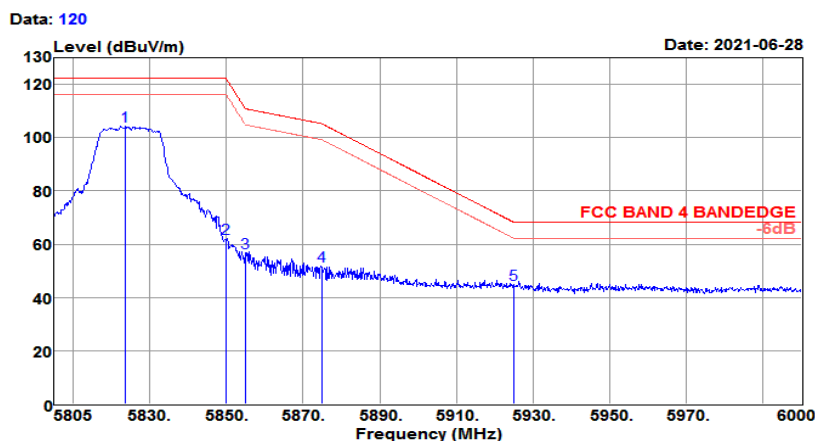


| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dBs/m | Cable<br>loss<br>dB | level<br>dBuA/m | Limit<br>level<br>dBuA/m | Over<br>limit<br>dB | Remark  |
|-------------|--------------------------|----------------------------|---------------------|-----------------|--------------------------|---------------------|---------|
| 5725.000    | 52.94                    | 31.96                      | 6.04                | 56.68           | 122.20                   | -65.52              | Average |
| 5744.070    | 87.67                    | 31.99                      | 6.06                | 91.45           | 122.20                   | -30.75              | Average |



|                 |                       |                     |            |
|-----------------|-----------------------|---------------------|------------|
| Test Mode :     | 802.11a CH165 5825MHz | Temperature :       | 19~23℃     |
| Test Engineer : | Jack Liu              | Relative Humidity : | 59~62%     |
| Frequency Range | 5.805GHz~6GHz         | Polarization :      | Horizontal |

|           |                           |              |              |
|-----------|---------------------------|--------------|--------------|
| Test Site | : 3m Chamber              | Temp/Humi    | : 19℃/60%    |
| Tested by | : Jack                    | Power rating | : DC 3.85V   |
| Model No. | : CT45-L0N                | Pol/Phase    | : HORIZONTAL |
| EUT       | : Mobile Computer         |              |              |
| Test Mode | : 802.11a CH165 (5825MHz) |              |              |

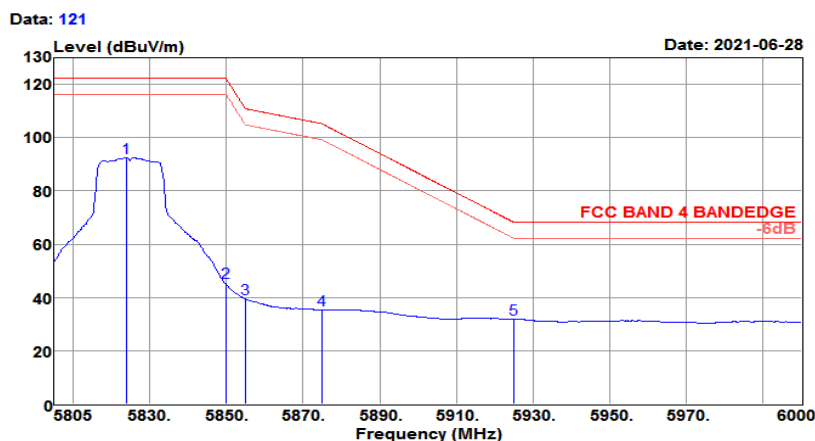


| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dBs/m | Cable<br>loss<br>dB | level<br>dBuA/m | Limit<br>level<br>dBuA/m | Over<br>limit<br>dB | Remark |
|-------------|--------------------------|----------------------------|---------------------|-----------------|--------------------------|---------------------|--------|
| 5823.720    | 100.42                   | 32.12                      | 6.12                | 104.35          | 122.20                   | -17.85              | Peak   |
| 5850.000    | 57.99                    | 32.16                      | 6.15                | 61.97           | 122.20                   | -60.23              | Peak   |
| 5855.000    | 52.62                    | 32.17                      | 6.16                | 56.62           | 110.80                   | -54.18              | Peak   |
| 5875.000    | 47.67                    | 32.20                      | 6.18                | 51.71           | 105.20                   | -53.49              | Peak   |
| 5925.000    | 40.92                    | 32.28                      | 6.22                | 45.06           | 68.20                    | -23.14              | Peak   |



|                 |                       |                     |            |
|-----------------|-----------------------|---------------------|------------|
| Test Mode :     | 802.11a CH165 5825MHz | Temperature :       | 19~23℃     |
| Test Engineer : | Jack Liu              | Relative Humidity : | 59~62%     |
| Frequency Range | 5.805GHz~6GHz         | Polarization :      | Horizontal |

|           |                           |              |              |
|-----------|---------------------------|--------------|--------------|
| Test Site | : 3m Chamber              | Temp/Humi    | : 19℃/60%    |
| Tested by | : Jack                    | Power rating | : DC 3.85V   |
| Model No. | : CT45-L0N                | Pol/Phase    | : HORIZONTAL |
| EUT       | : Mobile Computer         |              |              |
| Test Mode | : 802.11a CH165 (5825MHz) |              |              |

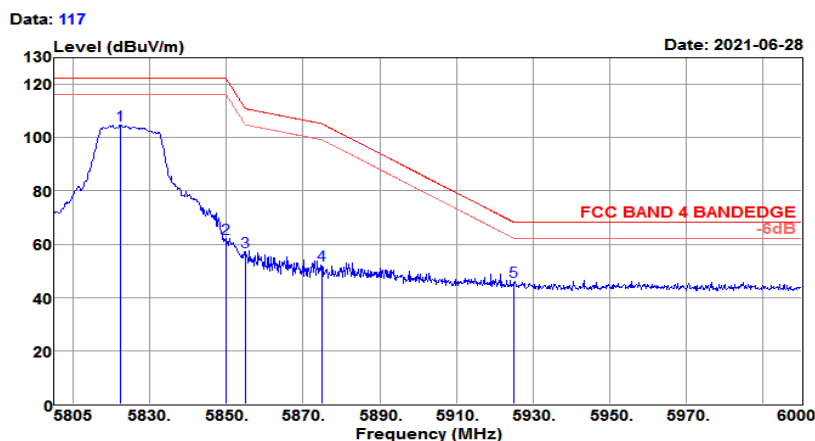


| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dBs/m | Cable<br>loss<br>dB | level<br>dBuA/m | Limit<br>level<br>dBuA/m | Over<br>limit<br>dB | Remark  |
|-------------|--------------------------|----------------------------|---------------------|-----------------|--------------------------|---------------------|---------|
| 5823.915    | 88.68                    | 32.12                      | 6.12                | 92.61           | 122.20                   | -29.59              | Average |
| 5850.000    | 41.60                    | 32.16                      | 6.15                | 45.58           | 122.20                   | -76.62              | Average |
| 5855.000    | 35.60                    | 32.17                      | 6.16                | 39.60           | 110.80                   | -71.20              | Average |
| 5875.000    | 31.24                    | 32.20                      | 6.18                | 35.28           | 105.20                   | -69.92              | Average |
| 5925.000    | 27.78                    | 32.28                      | 6.22                | 31.92           | 68.20                    | -36.28              | Average |



|                 |                       |                     |          |
|-----------------|-----------------------|---------------------|----------|
| Test Mode :     | 802.11a CH165 5825MHz | Temperature :       | 19~23℃   |
| Test Engineer : | Jack Liu              | Relative Humidity : | 59~62%   |
| Frequency Range | 5.805GHz~6GHz         | Polarization :      | Vertical |

|           |                           |              |            |
|-----------|---------------------------|--------------|------------|
| Test Site | : 3m Chamber              | Temp/Humi    | : 19℃/60%  |
| Tested by | : Jack                    | Power rating | : DC 3.85V |
| Model No. | : CT45-L0N                | Pol/Phase    | : VERTICAL |
| EUT       | : Mobile Computer         |              |            |
| Test Mode | : 802.11a CH165 (5825MHz) |              |            |

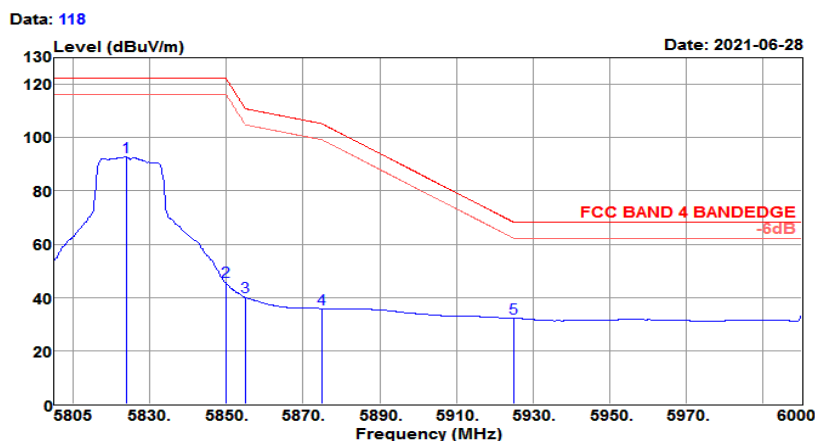


| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dBs/m | Cable<br>loss<br>dB | level<br>dBuA/m | Limit<br>level<br>dBuA/m | Over<br>limit<br>dB | Remark |
|-------------|--------------------------|----------------------------|---------------------|-----------------|--------------------------|---------------------|--------|
| 5822.550    | 100.76                   | 32.12                      | 6.12                | 104.69          | 122.20                   | -17.51              | Peak   |
| 5850.000    | 58.25                    | 32.16                      | 6.15                | 62.23           | 122.20                   | -59.97              | Peak   |
| 5855.000    | 53.25                    | 32.17                      | 6.16                | 57.25           | 110.80                   | -53.55              | Peak   |
| 5875.000    | 48.11                    | 32.20                      | 6.18                | 52.15           | 105.20                   | -53.05              | Peak   |
| 5925.000    | 41.89                    | 32.28                      | 6.22                | 46.03           | 68.20                    | -22.17              | Peak   |



|                 |                       |                     |          |
|-----------------|-----------------------|---------------------|----------|
| Test Mode :     | 802.11a CH165 5825MHz | Temperature :       | 19~23℃   |
| Test Engineer : | Jack Liu              | Relative Humidity : | 59~62%   |
| Frequency Range | 5.805GHz~6GHz         | Polarization :      | Vertical |

|           |                           |              |            |
|-----------|---------------------------|--------------|------------|
| Test Site | : 3m Chamber              | Temp/Humi    | : 19℃/60%  |
| Tested by | : Jack                    | Power rating | : DC 3.85V |
| Model No. | : CT45-L0N                | Pol/Phase    | : VERTICAL |
| EUT       | : Mobile Computer         |              |            |
| Test Mode | : 802.11a CH165 (5825MHz) |              |            |



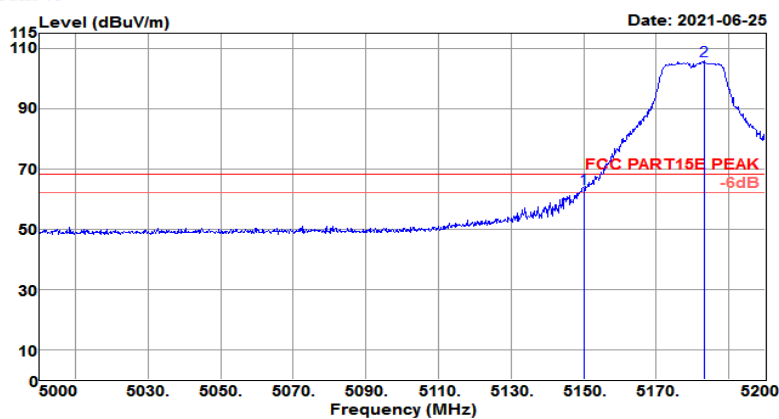
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dBs/m | Cable<br>loss<br>dB | level<br>dBuA/m | Limit<br>level<br>dBuA/m | Over<br>limit<br>dB | Remark  |
|-------------|--------------------------|----------------------------|---------------------|-----------------|--------------------------|---------------------|---------|
| 5823.915    | 88.95                    | 32.12                      | 6.12                | 92.88           | 122.20                   | -29.32              | Average |
| 5850.000    | 42.12                    | 32.16                      | 6.15                | 46.10           | 122.20                   | -76.10              | Average |
| 5855.000    | 36.20                    | 32.17                      | 6.16                | 40.20           | 110.80                   | -70.60              | Average |
| 5875.000    | 31.77                    | 32.20                      | 6.18                | 35.81           | 105.20                   | -69.39              | Average |
| 5925.000    | 28.18                    | 32.28                      | 6.22                | 32.32           | 68.20                    | -35.88              | Average |



|                 |                           |                     |            |
|-----------------|---------------------------|---------------------|------------|
| Test Mode :     | 802.11n HT20 CH36 5180MHz | Temperature :       | 19~23℃     |
| Test Engineer : | Jack Liu                  | Relative Humidity : | 59~62%     |
| Frequency Range | 5.0GHz~5.2GHz             | Polarization :      | Horizontal |

Test Site : 3m Chamber  
Temp/Humi : 21℃/60%  
Tested by : Jack  
Pol/Phase : HORIZONTAL  
Test Mode : 802.11n HT20 CH36 (5180MHz)  
Power rating: DC 3.85V

Data: 18



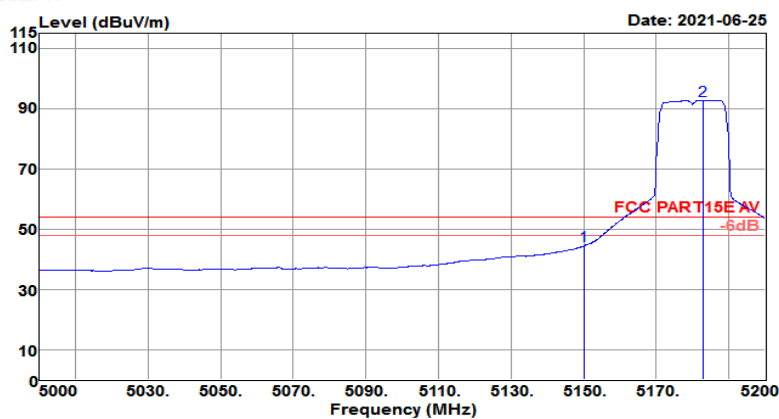
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|--------|
| 5150.000    | 58.10                    | 31.32                     | 8.17                | 33.98                  | 63.61           | 68.20                    | -4.59               | Peak   |
| 5183.200    | 100.16                   | 31.35                     | 8.22                | 33.99                  | 105.74          | 68.20                    | 37.54               | Peak   |



|                 |                           |                     |            |
|-----------------|---------------------------|---------------------|------------|
| Test Mode :     | 802.11n HT20 CH36 5180MHz | Temperature :       | 19~23℃     |
| Test Engineer : | Jack Liu                  | Relative Humidity : | 59~62%     |
| Frequency Range | 5.0GHz~5.2GHz             | Polarization :      | Horizontal |

Test Site : 3m Chamber  
Temp/Humi : 21℃/60%  
Tested by : Jack  
Pol/Phase : HORIZONTAL  
Test Mode : 802.11n HT20 CH36 (5180MHz)  
Power rating: DC 3.85V

Data: 19



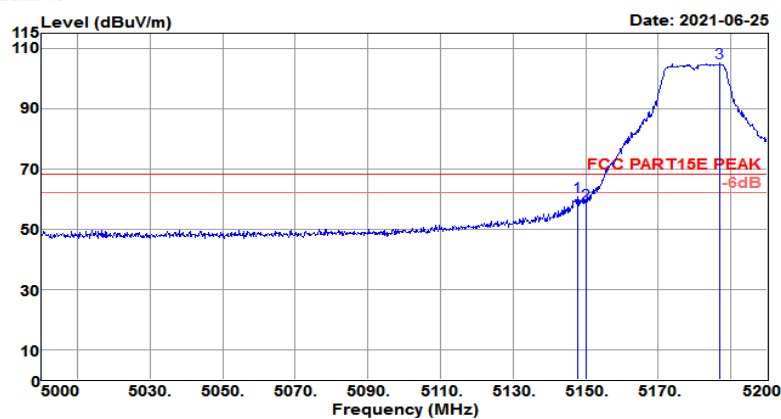
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark  |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|---------|
| 5150.000    | 38.81                    | 31.32                     | 8.17                | 33.98                  | 44.32           | 54.00                    | -9.68               | Average |
| 5183.000    | 87.21                    | 31.35                     | 8.22                | 33.99                  | 92.79           | 54.00                    | 38.79               | Average |



|                 |                           |                     |          |
|-----------------|---------------------------|---------------------|----------|
| Test Mode :     | 802.11n HT20 CH36 5180MHz | Temperature :       | 19~23℃   |
| Test Engineer : | Jack Liu                  | Relative Humidity : | 59~62%   |
| Frequency Range | 5.0GHz~5.2GHz             | Polarization :      | Vertical |

Test Site : 3m Chamber      Temp/Humi : 21℃/60%  
 Tested by : Jack      Pol/Phase : VERTICAL  
 Test Mode : 802.11n HT20 CH36 (5180MHz)      Power rating: DC 3.85V

Data: 15



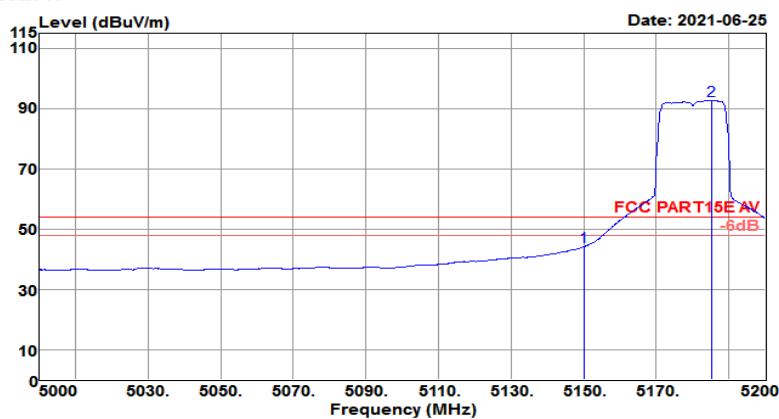
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|--------|
| 5147.800    | 55.31                    | 31.32                     | 8.16                | 33.97                  | 60.82           | 68.20                    | -7.38               | Peak   |
| 5150.000    | 52.93                    | 31.32                     | 8.17                | 33.98                  | 58.44           | 68.20                    | -9.76               | Peak   |
| 5187.000    | 99.60                    | 31.35                     | 8.23                | 33.99                  | 105.19          | 68.20                    | 36.99               | Peak   |



|                 |                           |                     |          |
|-----------------|---------------------------|---------------------|----------|
| Test Mode :     | 802.11n HT20 CH36 5180MHz | Temperature :       | 19~23℃   |
| Test Engineer : | Jack Liu                  | Relative Humidity : | 59~62%   |
| Frequency Range | 5.0GHz~5.2GHz             | Polarization :      | Vertical |

Test Site : 3m Chamber  
Temp/Humi : 21℃/60%  
Tested by : Jack  
Pol/Phase : VERTICAL  
Test Mode : 802.11n HT20 CH36 (5180MHz)  
Power rating: DC 3.85V

Data: 16



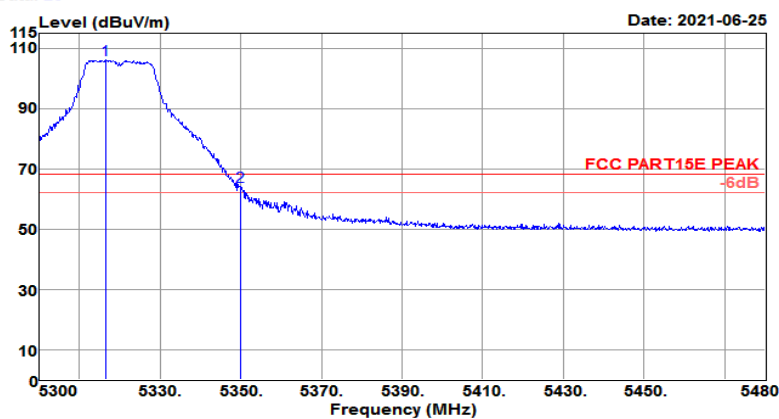
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark  |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|---------|
| 5150.000    | 38.59                    | 31.32                     | 8.17                | 33.98                  | 44.10           | 54.00                    | -9.90               | Average |
| 5185.200    | 86.95                    | 31.35                     | 8.23                | 33.99                  | 92.54           | 54.00                    | 38.54               | Average |



|                 |                             |                     |            |
|-----------------|-----------------------------|---------------------|------------|
| Test Mode :     | 802.11 n HT 20 CH64 5320MHz | Temperature :       | 19~23℃     |
| Test Engineer : | Jack Liu                    | Relative Humidity : | 59~62%     |
| Frequency Range | 5.3GHz~5.48GHz              | Polarization :      | Horizontal |

|           |                               |               |              |
|-----------|-------------------------------|---------------|--------------|
| Test Site | : 3m Chamber                  | Temp/Humi     | : 21℃/60%    |
| Tested by | : Jack                        | Pol/Phase     | : HORIZONTAL |
| Test Mode | : 802.11n HT20 CH64 (5320MHz) | Power rating: | DC 3.85V     |

Data: 26



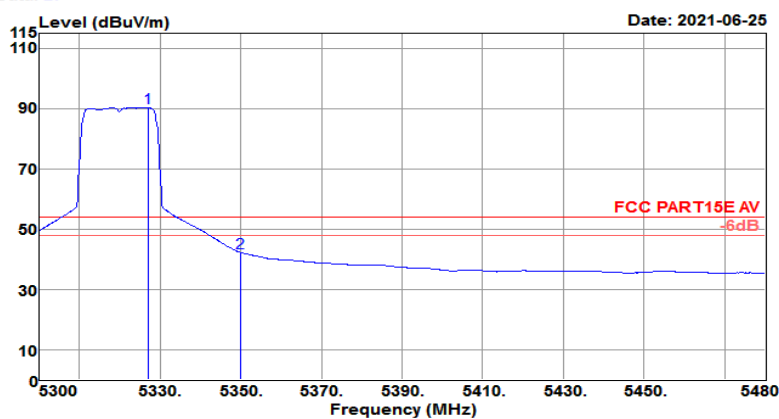
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|--------|
| 5316.560    | 99.98                    | 31.45                     | 8.70                | 34.06                  | 106.07          | 68.20                    | 37.87               | Peak   |
| 5350.000    | 57.84                    | 31.48                     | 8.84                | 34.08                  | 64.08           | 68.20                    | -4.12               | Peak   |



|                 |                             |                     |            |
|-----------------|-----------------------------|---------------------|------------|
| Test Mode :     | 802.11 n HT 20 CH64 5320MHz | Temperature :       | 19~23℃     |
| Test Engineer : | Jack Liu                    | Relative Humidity : | 59~62%     |
| Frequency Range | 5.3GHz~5.48GHz              | Polarization :      | Horizontal |

|           |                               |               |              |
|-----------|-------------------------------|---------------|--------------|
| Test Site | : 3m Chamber                  | Temp/Humi     | : 21℃/60%    |
| Tested by | : Jack                        | Pol/Phase     | : HORIZONTAL |
| Test Mode | : 802.11n HT20 CH64 (5320MHz) | Power rating: | DC 3.85V     |

Data: 27



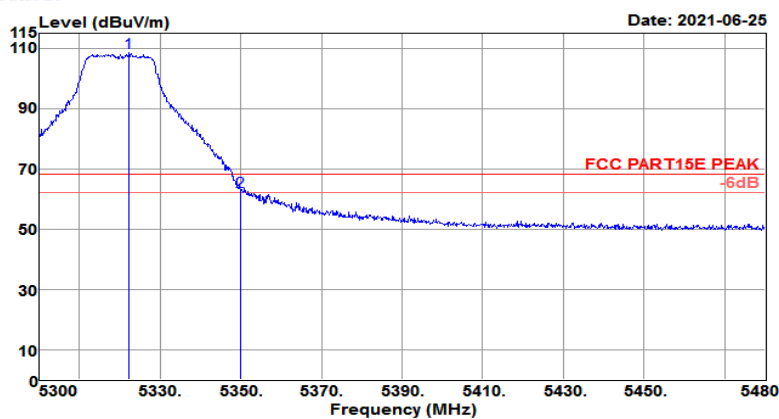
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark  |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|---------|
| 5327.000    | 84.12                    | 31.46                     | 8.75                | 34.06                  | 90.27           | 54.00                    | 36.27               | Average |
| 5350.000    | 35.88                    | 31.48                     | 8.84                | 34.08                  | 42.12           | 54.00                    | -11.88              | Average |



|                 |                             |                     |          |
|-----------------|-----------------------------|---------------------|----------|
| Test Mode :     | 802.11 n HT 20 CH64 5320MHz | Temperature :       | 19~23℃   |
| Test Engineer : | Jack Liu                    | Relative Humidity : | 59~62%   |
| Frequency Range | 5.3GHz~5.48GHz              | Polarization :      | Vertical |

Test Site : 3m Chamber  
Temp/Humi : 21℃/60%  
Tested by : Jack  
Pol/Phase : VERTICAL  
Test Mode : 802.11n HT20 CH64 (5320MHz)  
Power rating: DC 3.85V

Data: 23



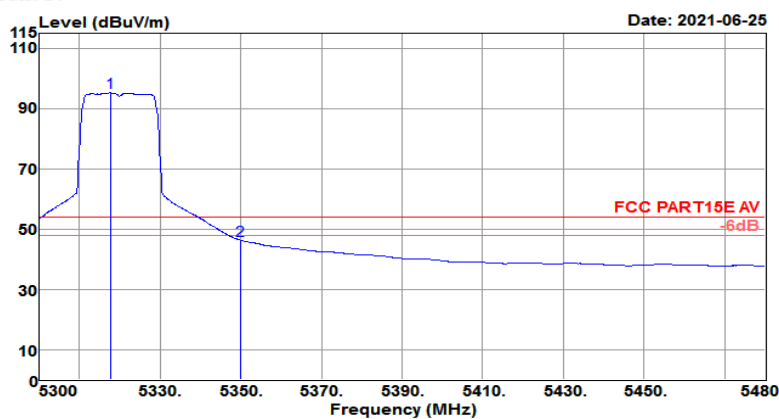
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|--------|
| 5322.320    | 102.51                   | 31.46                     | 8.73                | 34.06                  | 108.64          | 68.20                    | 40.44               | Peak   |
| 5350.000    | 56.11                    | 31.48                     | 8.84                | 34.08                  | 62.35           | 68.20                    | -5.85               | Peak   |



|                 |                             |                     |          |
|-----------------|-----------------------------|---------------------|----------|
| Test Mode :     | 802.11 n HT 20 CH64 5320MHz | Temperature :       | 19~23℃   |
| Test Engineer : | Jack Liu                    | Relative Humidity : | 59~62%   |
| Frequency Range | 5.3GHz~5.48GHz              | Polarization :      | Vertical |

Test Site : 3m Chamber  
Temp/Humi : 21℃/60%  
Tested by : Jack  
Pol/Phase : VERTICAL  
Test Mode : 802.11n HT20 CH64 (5320MHz)  
Power rating: DC 3.85V

Data: 24



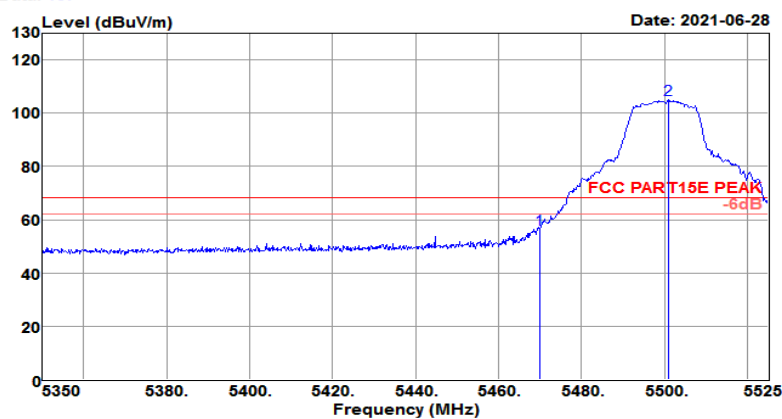
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark  |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|---------|
| 5317.640    | 89.09                    | 31.45                     | 8.71                | 34.06                  | 95.19           | 54.00                    | 41.19               | Average |
| 5350.000    | 39.90                    | 31.48                     | 8.84                | 34.08                  | 46.14           | 54.00                    | -7.86               | Average |



|                 |                              |                     |            |
|-----------------|------------------------------|---------------------|------------|
| Test Mode :     | 802.11 n HT 20 CH100 5500MHz | Temperature :       | 19~23℃     |
| Test Engineer : | Jack Liu                     | Relative Humidity : | 59~62%     |
| Frequency Range | 5.35GHz~5.525GHz             | Polarization :      | Horizontal |

Test Site : 3m Chamber  
Temp/Humi : 23℃/59%  
Tested by : Jack  
Pol/Phase : HORIZONTAL  
Test Mode : 802.11n HT20 CH100(5500MHz)  
Power rating: DC 3.85V

Data: 137



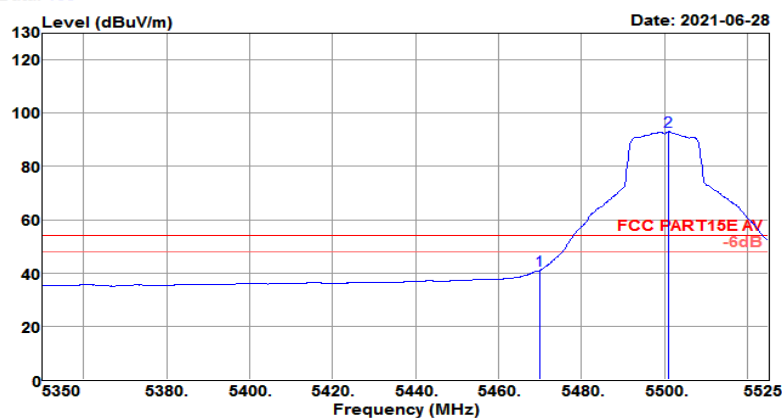
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|--------|
| 5470.000    | 50.05                    | 31.58                     | 8.86                | 34.14                  | 56.35           | 68.20                    | -11.85              | Peak   |
| 5500.850    | 98.68                    | 31.60                     | 8.78                | 34.15                  | 104.91          | 68.20                    | 36.71               | Peak   |



|                 |                              |                     |            |
|-----------------|------------------------------|---------------------|------------|
| Test Mode :     | 802.11 n HT 20 CH100 5500MHz | Temperature :       | 19~23℃     |
| Test Engineer : | Jack Liu                     | Relative Humidity : | 59~62%     |
| Frequency Range | 5.35GHz~5.525GHz             | Polarization :      | Horizontal |

Test Site : 3m Chamber Temp/Humi : 23℃/59%  
 Tested by : Jack Pol/Phase : HORIZONTAL  
 Test Mode : 802.11n HT20 CH100(5500MHz) Power rating: DC 3.85V

Data: 138



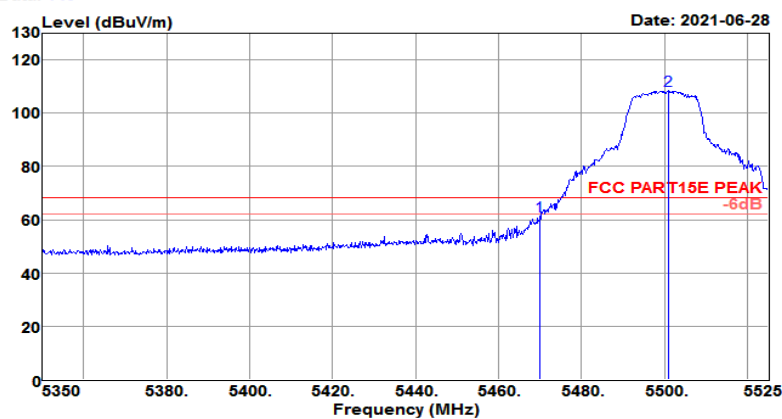
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark  |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|---------|
| 5470.000    | 34.78                    | 31.58                     | 8.86                | 34.14                  | 41.08           | 54.00                    | -12.92              | Average |
| 5501.025    | 86.84                    | 31.60                     | 8.78                | 34.15                  | 93.07           | 54.00                    | 39.07               | Average |



|                 |                              |                     |          |
|-----------------|------------------------------|---------------------|----------|
| Test Mode :     | 802.11 n HT 20 CH100 5500MHz | Temperature :       | 19~23℃   |
| Test Engineer : | Jack Liu                     | Relative Humidity : | 59~62%   |
| Frequency Range | 5.35GHz~5.525GHz             | Polarization :      | Vertical |

Test Site : 3m Chamber  
Temp/Humi : 23℃/59%  
Tested by : Jack  
Pol/Phase : VERTICAL  
Test Mode : 802.11n HT20 CH100(5500MHz)  
Power rating: DC 3.85V

Data: 140



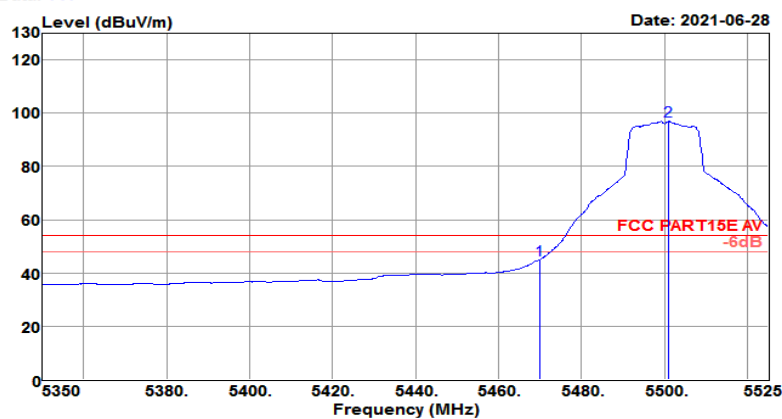
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|--------|
| 5470.000    | 54.92                    | 31.58                     | 8.86                | 34.14                  | 61.22           | 68.20                    | -6.98               | Peak   |
| 5501.025    | 102.35                   | 31.60                     | 8.78                | 34.15                  | 108.58          | 68.20                    | 40.38               | Peak   |



|                 |                              |                     |          |
|-----------------|------------------------------|---------------------|----------|
| Test Mode :     | 802.11 n HT 20 CH100 5500MHz | Temperature :       | 19~23℃   |
| Test Engineer : | Jack Liu                     | Relative Humidity : | 59~62%   |
| Frequency Range | 5.35GHz~5.51GHz              | Polarization :      | Vertical |

Test Site : 3m Chamber  
Temp/Humi : 23℃/59%  
Tested by : Jack  
Pol/Phase : VERTICAL  
Test Mode : 802.11n HT20 CH100(5500MHz)  
Power rating: DC 3.85V

Data: 141



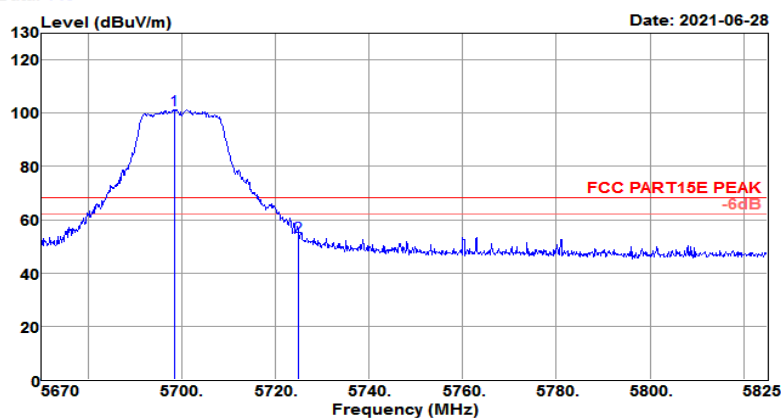
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark  |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|---------|
| 5470.000    | 38.76                    | 31.58                     | 8.86                | 34.14                  | 45.06           | 54.00                    | -8.94               | Average |
| 5501.025    | 90.69                    | 31.60                     | 8.78                | 34.15                  | 96.92           | 54.00                    | 42.92               | Average |



|                 |                              |                     |            |
|-----------------|------------------------------|---------------------|------------|
| Test Mode :     | 802.11 n HT 20 CH140 5700MHz | Temperature :       | 19~23℃     |
| Test Engineer : | Jack Liu                     | Relative Humidity : | 59~62%     |
| Frequency Range | 5.670GHz~5.825GHz            | Polarization :      | Horizontal |

|                                         |                        |
|-----------------------------------------|------------------------|
| Test Site : 3m Chamber                  | Temp/Humi : 23℃/59%    |
| Tested by : Jack                        | Pol/Phase : HORIZONTAL |
| Test Mode : 802.11n HT20 CH140(5700MHz) | Power rating: DC 3.85V |

Data: 145



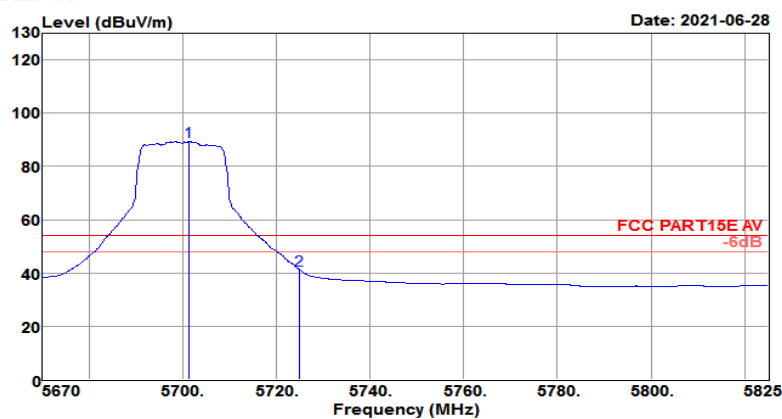
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|--------|
| 5698.520    | 95.66                    | 31.92                     | 7.95                | 34.25                  | 101.28          | 68.20                    | 33.08               | Peak   |
| 5725.000    | 48.14                    | 31.96                     | 7.80                | 34.26                  | 53.64           | 68.20                    | -14.56              | Peak   |



|                 |                              |                     |            |
|-----------------|------------------------------|---------------------|------------|
| Test Mode :     | 802.11 n HT 20 CH140 5700MHz | Temperature :       | 19~23℃     |
| Test Engineer : | Jack Liu                     | Relative Humidity : | 59~62%     |
| Frequency Range | 5.670GHz~5.825GHz            | Polarization :      | Horizontal |

Test Site : 3m Chamber Temp/Humi : 23℃/59%  
 Tested by : Jack Pol/Phase : HORIZONTAL  
 Test Mode : 802.11n HT20 CH140(5700MHz) Power rating: DC 3.85V

Data: 146



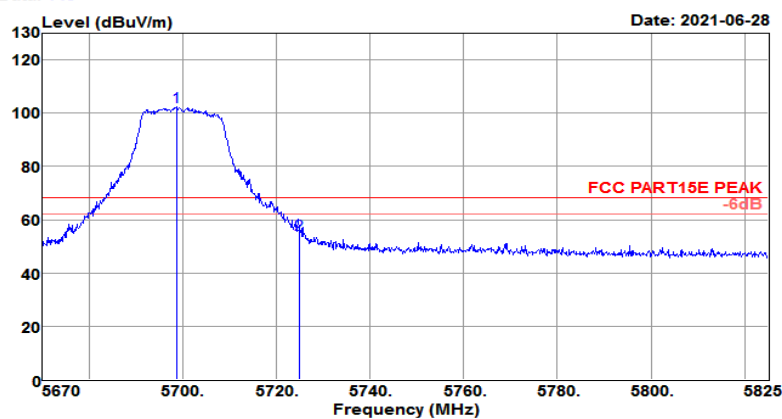
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark  |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|---------|
| 5701.465    | 83.83                    | 31.92                     | 7.94                | 34.25                  | 89.44           | 54.00                    | 35.44               | Average |
| 5725.000    | 35.60                    | 31.96                     | 7.80                | 34.26                  | 41.10           | 54.00                    | -12.90              | Average |



|                 |                              |                     |          |
|-----------------|------------------------------|---------------------|----------|
| Test Mode :     | 802.11 n HT 20 CH140 5700MHz | Temperature :       | 19~23℃   |
| Test Engineer : | Jack Liu                     | Relative Humidity : | 59~62%   |
| Frequency Range | 5.670GHz~5.825GHz            | Polarization :      | Vertical |

|                                         |                        |
|-----------------------------------------|------------------------|
| Test Site : 3m Chamber                  | Temp/Humi : 23℃/59%    |
| Tested by : Jack                        | Pol/Phase : VERTICAL   |
| Test Mode : 802.11n HT20 CH140(5700MHz) | Power rating: DC 3.85V |

Data: 148



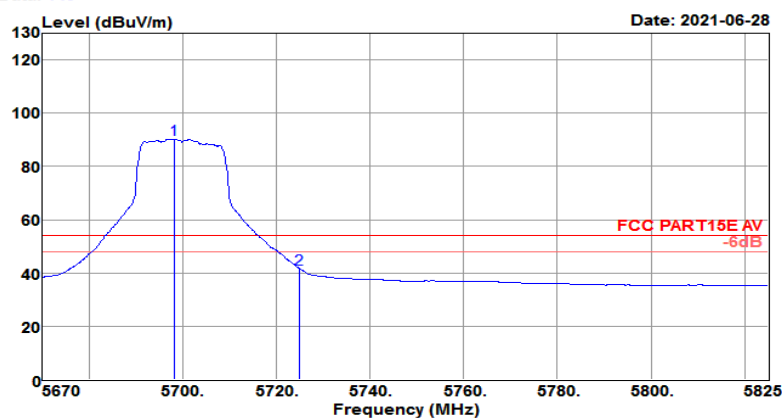
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|--------|
| 5698.675    | 96.80                    | 31.92                     | 7.95                | 34.25                  | 102.42          | 68.20                    | 34.22               | Peak   |
| 5725.000    | 48.86                    | 31.96                     | 7.80                | 34.26                  | 54.36           | 68.20                    | -13.84              | Peak   |



|                 |                              |                     |          |
|-----------------|------------------------------|---------------------|----------|
| Test Mode :     | 802.11 n HT 20 CH140 5700MHz | Temperature :       | 19~23℃   |
| Test Engineer : | Jack Liu                     | Relative Humidity : | 59~62%   |
| Frequency Range | 5.67GHz~5.825GHz             | Polarization :      | Vertical |

Test Site : 3m Chamber  
Temp/Humi : 23℃/59%  
Tested by : Jack  
Pol/Phase : VERTICAL  
Test Mode : 802.11n HT20 CH140(5700MHz)  
Power rating: DC 3.85V

Data: 149



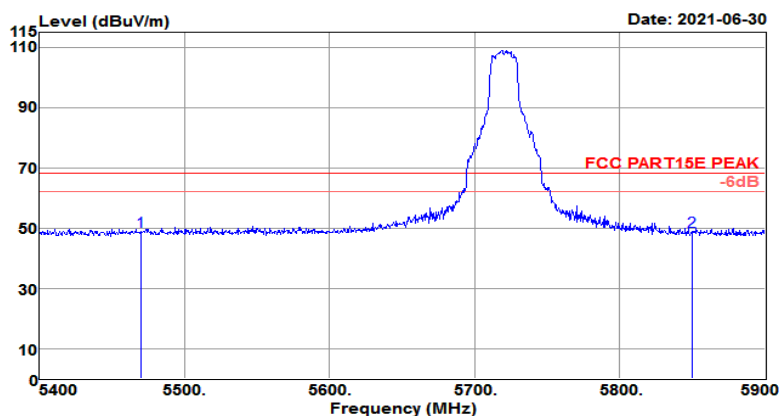
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark  |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|---------|
| 5698.365    | 84.63                    | 31.92                     | 7.95                | 34.25                  | 90.25           | 54.00                    | 36.25               | Average |
| 5725.000    | 36.00                    | 31.96                     | 7.80                | 34.26                  | 41.50           | 54.00                    | -12.50              | Average |



|                 |                              |                     |            |
|-----------------|------------------------------|---------------------|------------|
| Test Mode :     | 802.11 n HT 20 CH144 5720MHz | Temperature :       | 18~21℃     |
| Test Engineer : | Jack Liu                     | Relative Humidity : | 59~63%     |
| Frequency Range | 5.4GHz~5.9GHz                | Polarization :      | Horizontal |

Test Site : 3m Chamber Temp/Humi : 22℃/61%  
 Tested by : Jack Pol/Phase : HORIZONTAL  
 Test Mode : 802.11n HT20 CH144 (5720MHz) Power rating: DC 3.85V

Data: 168



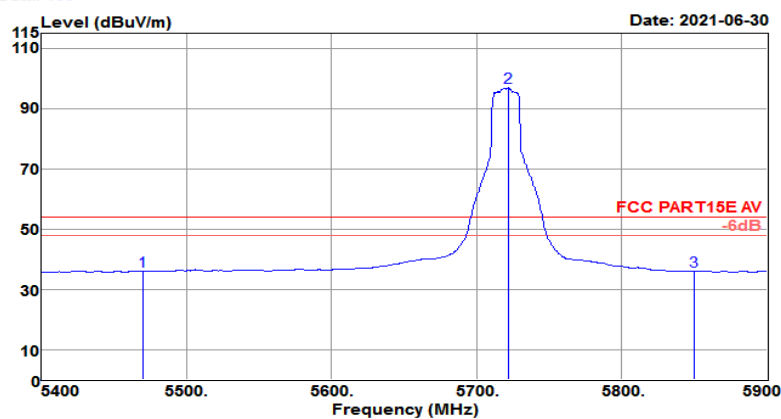
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|--------|
| 5470.000    | 42.59                    | 31.58                     | 8.86                | 34.14                  | 48.89           | 68.20                    | -19.31              | Peak   |
| 5850.000    | 43.50                    | 32.16                     | 7.46                | 34.33                  | 48.79           | 68.20                    | -19.41              | Peak   |



|                 |                              |                     |            |
|-----------------|------------------------------|---------------------|------------|
| Test Mode :     | 802.11 n HT 20 CH144 5720MHz | Temperature :       | 18~21℃     |
| Test Engineer : | Jack Liu                     | Relative Humidity : | 59~63%     |
| Frequency Range | 5.4GHz~5.9GHz                | Polarization :      | Horizontal |

Test Site : 3m Chamber Temp/Humi : 22℃/61%  
 Tested by : Jack Pol/Phase : HORIZONTAL  
 Test Mode : 802.11n HT20 CH144 (5720MHz) Power rating: DC 3.85V

Data: 169



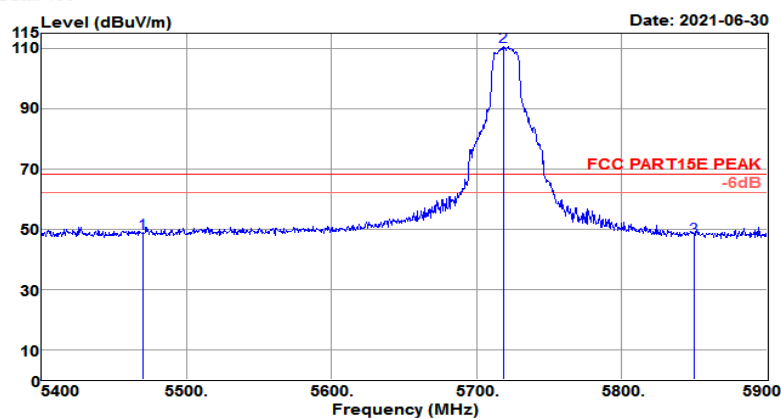
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark  |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|---------|
| 5470.000    | 29.55                    | 31.58                     | 8.86                | 34.14                  | 35.85           | 54.00                    | -18.15              | Average |
| 5721.500    | 91.45                    | 31.95                     | 7.82                | 34.26                  | 96.96           | 54.00                    | 42.96               | Average |
| 5850.000    | 30.61                    | 32.16                     | 7.46                | 34.33                  | 35.90           | 54.00                    | -18.10              | Average |



|                 |                              |                     |          |
|-----------------|------------------------------|---------------------|----------|
| Test Mode :     | 802.11 n HT 20 CH144 5720MHz | Temperature :       | 18~21℃   |
| Test Engineer : | Jack Liu                     | Relative Humidity : | 59~63%   |
| Frequency Range | 5.4GHz~5.9GHz                | Polarization :      | Vertical |

Test Site : 3m Chamber Temp/Humi : 22℃/61%  
 Tested by : Jack Pol/Phase : VERTICAL  
 Test Mode : 802.11n HT20 CH144 (5720MHz) Power rating: DC 3.85V

Data: 165



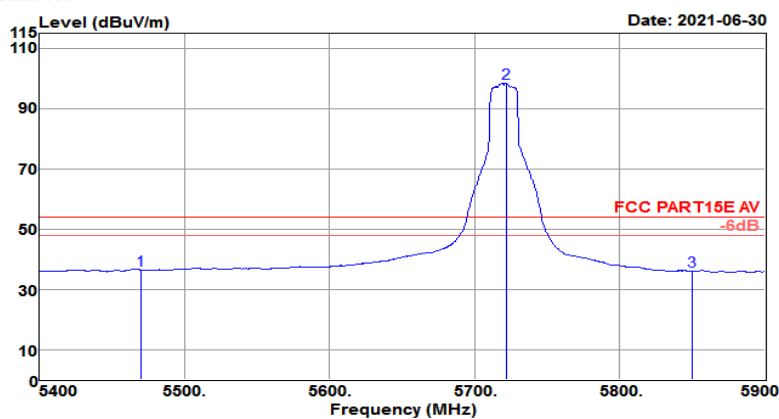
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|--------|
| 5470.000    | 42.17                    | 31.58                     | 8.86                | 34.14                  | 48.47           | 68.20                    | -19.73              | Peak   |
| 5718.500    | 104.99                   | 31.95                     | 7.83                | 34.26                  | 110.51          | 68.20                    | 42.31               | Peak   |
| 5850.000    | 41.89                    | 32.16                     | 7.46                | 34.33                  | 47.18           | 68.20                    | -21.02              | Peak   |



|                 |                              |                     |          |
|-----------------|------------------------------|---------------------|----------|
| Test Mode :     | 802.11 n HT 20 CH144 5720MHz | Temperature :       | 18~21℃   |
| Test Engineer : | Jack Liu                     | Relative Humidity : | 59~63%   |
| Frequency Range | 5.4GHz~5.9GHz                | Polarization :      | Vertical |

Test Site : 3m Chamber Temp/Humi : 22℃/61%  
 Tested by : Jack Pol/Phase : VERTICAL  
 Test Mode : 802.11n HT20 CH144 (5720MHz) Power rating: DC 3.85V

Data: 166

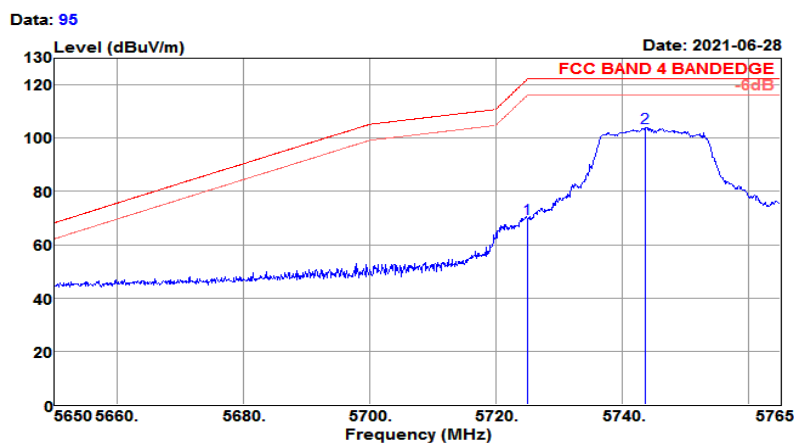


| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark  |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|---------|
| 5470.000    | 30.03                    | 31.58                     | 8.86                | 34.14                  | 36.33           | 54.00                    | -17.67              | Average |
| 5721.500    | 93.00                    | 31.95                     | 7.82                | 34.26                  | 98.51           | 54.00                    | 44.51               | Average |
| 5850.000    | 30.73                    | 32.16                     | 7.46                | 34.33                  | 36.02           | 54.00                    | -17.98              | Average |



|                 |                              |                     |            |
|-----------------|------------------------------|---------------------|------------|
| Test Mode :     | 802.11 n HT 20 CH149 5745MHz | Temperature :       | 19~23℃     |
| Test Engineer : | Jack Liu                     | Relative Humidity : | 59~62%     |
| Frequency Range | 5.65GHz~5.765GHz             | Polarization :      | Horizontal |

Test Site : 3m Chamber Temp/Humi : 19℃/60%  
 Tested by : Jack Pol/Phase : HORIZONTAL  
 Test Mode : 802.11n HT20 CH149 (5745MHz) Power rating: DC 3.85V

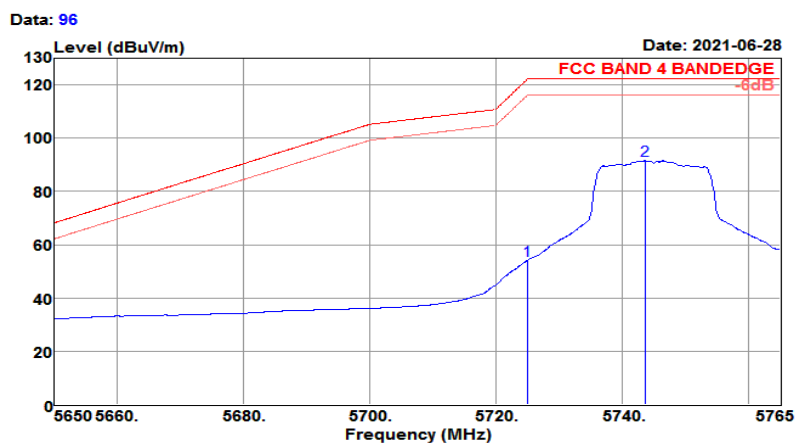


| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|--------|
| 5725.000    | 66.06                    | 31.96                     | 6.04                | 34.26                  | 69.80           | 122.20                   | -52.40              | Peak   |
| 5743.725    | 100.07                   | 31.99                     | 6.05                | 34.27                  | 103.84          | 122.20                   | -18.36              | Peak   |



|                 |                              |                     |            |
|-----------------|------------------------------|---------------------|------------|
| Test Mode :     | 802.11 n HT 20 CH149 5745MHz | Temperature :       | 19~23℃     |
| Test Engineer : | Jack Liu                     | Relative Humidity : | 59~62%     |
| Frequency Range | 5.65GHz~5.765GHz             | Polarization :      | Horizontal |

Test Site : 3m Chamber Temp/Humi : 19℃/60%  
 Tested by : Jack Pol/Phase : HORIZONTAL  
 Test Mode : 802.11n HT20 CH149 (5745MHz) Power rating: DC 3.85V

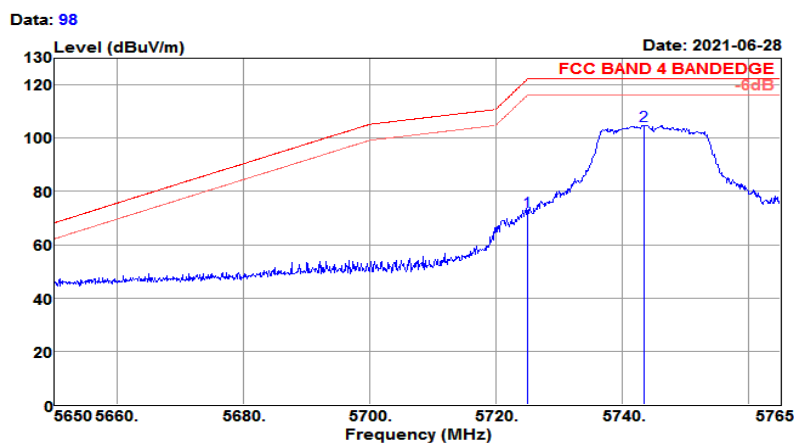


| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark  |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|---------|
| 5725.000    | 50.53                    | 31.96                     | 6.04                | 34.26                  | 54.27           | 122.20                   | -67.93              | Average |
| 5743.610    | 87.77                    | 31.99                     | 6.05                | 34.27                  | 91.54           | 122.20                   | -30.66              | Average |



|                 |                              |                     |          |
|-----------------|------------------------------|---------------------|----------|
| Test Mode :     | 802.11 n HT 20 CH149 5745MHz | Temperature :       | 19~23℃   |
| Test Engineer : | Jack Liu                     | Relative Humidity : | 59~62%   |
| Frequency Range | 5.65GHz~5.765GHz             | Polarization :      | Vertical |

Test Site : 3m Chamber Temp/Humi : 19℃/60%  
 Tested by : Jack Pol/Phase : VERTICAL  
 Test Mode : 802.11n HT20 CH149 (5745MHz) Power rating: DC 3.85V

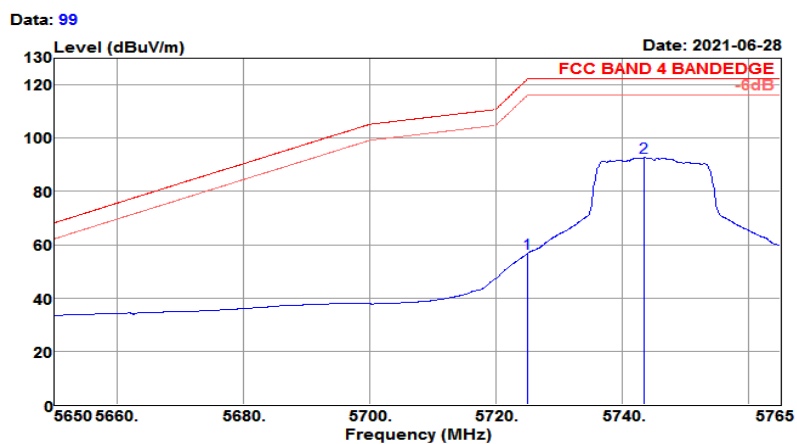


| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|--------|
| 5725.000    | 68.69                    | 31.96                     | 6.04                | 34.26                  | 72.43           | 122.20                   | -49.77              | Peak   |
| 5743.380    | 101.06                   | 31.99                     | 6.05                | 34.27                  | 104.83          | 122.20                   | -17.37              | Peak   |



|                 |                              |                     |          |
|-----------------|------------------------------|---------------------|----------|
| Test Mode :     | 802.11 n HT 20 CH149 5745MHz | Temperature :       | 19~23℃   |
| Test Engineer : | Jack Liu                     | Relative Humidity : | 59~62%   |
| Frequency Range | 5.65GHz~5.765GHz             | Polarization :      | Vertical |

Test Site : 3m Chamber Temp/Humi : 19℃/60%  
 Tested by : Jack Pol/Phase : VERTICAL  
 Test Mode : 802.11n HT20 CH149 (5745MHz) Power rating: DC 3.85V



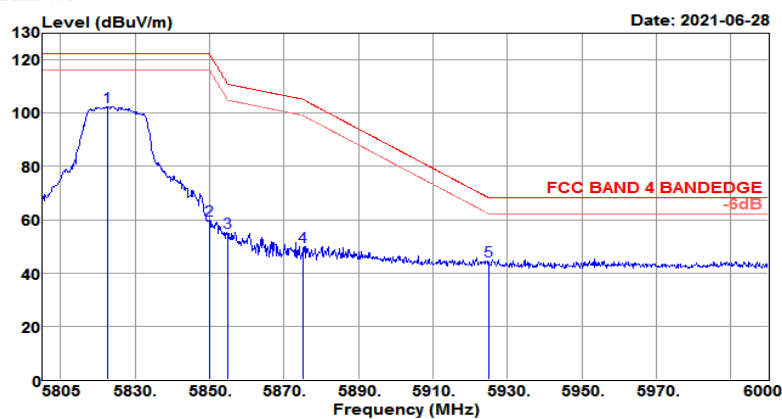
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark  |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|---------|
| 5725.000    | 53.05                    | 31.96                     | 6.04                | 34.26                  | 56.79           | 122.20                   | -65.41              | Average |
| 5743.495    | 88.98                    | 31.99                     | 6.05                | 34.27                  | 92.75           | 122.20                   | -29.45              | Average |



|                 |                              |                     |            |
|-----------------|------------------------------|---------------------|------------|
| Test Mode :     | 802.11 n HT 20 CH165 5825MHz | Temperature :       | 19~23℃     |
| Test Engineer : | Jack Liu                     | Relative Humidity : | 59~62%     |
| Frequency Range | 5.805GHz~6GHz                | Polarization :      | Horizontal |

Test Site : 3m Chamber Temp/Humi : 19℃/60%  
 Tested by : Jack Pol/Phase : HORIZONTAL  
 Test Mode : 802.11n HT20 CH165 (5825MHz) Power rating: DC 3.85V

Data: 103



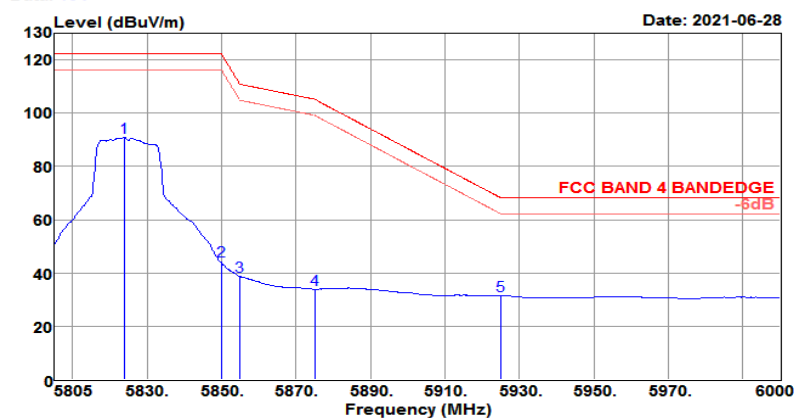
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|--------|
| 5822.745    | 98.52                    | 32.12                     | 6.12                | 34.31                  | 102.45          | 122.20                   | -19.75              | Peak   |
| 5850.000    | 55.94                    | 32.16                     | 6.15                | 34.33                  | 59.92           | 122.20                   | -62.28              | Peak   |
| 5855.000    | 51.27                    | 32.17                     | 6.16                | 34.33                  | 55.27           | 110.80                   | -55.53              | Peak   |
| 5875.000    | 45.93                    | 32.20                     | 6.18                | 34.34                  | 49.97           | 105.20                   | -55.23              | Peak   |
| 5925.000    | 40.24                    | 32.28                     | 6.22                | 34.36                  | 44.38           | 68.20                    | -23.82              | Peak   |



|                 |                              |                     |            |
|-----------------|------------------------------|---------------------|------------|
| Test Mode :     | 802.11 n HT 20 CH165 5825MHz | Temperature :       | 19~23℃     |
| Test Engineer : | Jack Liu                     | Relative Humidity : | 59~62%     |
| Frequency Range | 5.805GHz~6GHz                | Polarization :      | Horizontal |

Test Site : 3m Chamber Temp/Humi : 19℃/60%  
 Tested by : Jack Pol/Phase : HORIZONTAL  
 Test Mode : 802.11n HT20 CH165 (5825MHz) Power rating: DC 3.85V

Data: 104



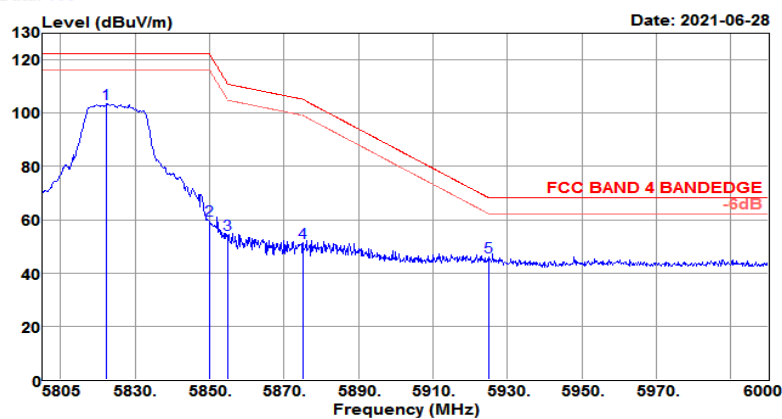
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark  |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|---------|
| 5823.915    | 86.93                    | 32.12                     | 6.12                | 34.31                  | 90.86           | 122.20                   | -31.34              | Average |
| 5850.000    | 40.39                    | 32.16                     | 6.15                | 34.33                  | 44.37           | 122.20                   | -77.83              | Average |
| 5855.000    | 34.91                    | 32.17                     | 6.16                | 34.33                  | 38.91           | 110.80                   | -71.89              | Average |
| 5875.000    | 29.91                    | 32.20                     | 6.18                | 34.34                  | 33.95           | 105.20                   | -71.25              | Average |
| 5925.000    | 27.36                    | 32.28                     | 6.22                | 34.36                  | 31.50           | 68.20                    | -36.70              | Average |



|                 |                              |                     |          |
|-----------------|------------------------------|---------------------|----------|
| Test Mode :     | 802.11 n HT 20 CH165 5825MHz | Temperature :       | 19~23℃   |
| Test Engineer : | Jack Liu                     | Relative Humidity : | 59~62%   |
| Frequency Range | 5.805GHz~6GHz                | Polarization :      | Vertical |

Test Site : 3m Chamber Temp/Humi : 19℃/60%  
 Tested by : Jack Pol/Phase : VERTICAL  
 Test Mode : 802.11n HT20 CH165 (5825MHz) Power rating: DC 3.85V

Data: 106



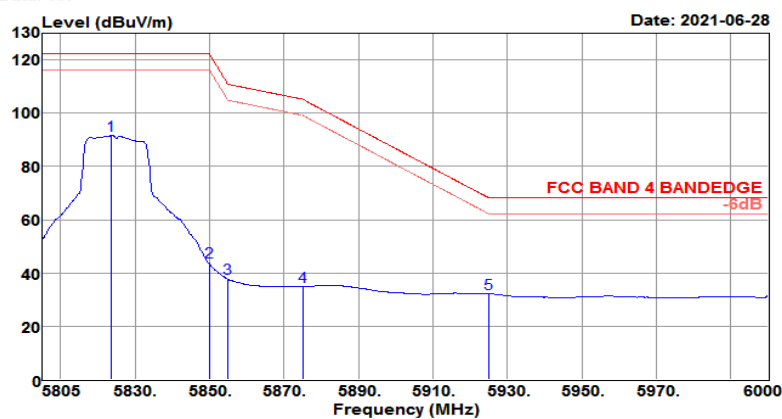
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|--------|
| 5822.355    | 99.58                    | 32.12                     | 6.12                | 34.31                  | 103.51          | 122.20                   | -18.69              | Peak   |
| 5850.000    | 56.05                    | 32.16                     | 6.15                | 34.33                  | 60.03           | 122.20                   | -62.17              | Peak   |
| 5855.000    | 50.64                    | 32.17                     | 6.16                | 34.33                  | 54.64           | 110.80                   | -56.16              | Peak   |
| 5875.000    | 47.52                    | 32.20                     | 6.18                | 34.34                  | 51.56           | 105.20                   | -53.64              | Peak   |
| 5925.000    | 41.98                    | 32.28                     | 6.22                | 34.36                  | 46.12           | 68.20                    | -22.08              | Peak   |



|                 |                              |                     |          |
|-----------------|------------------------------|---------------------|----------|
| Test Mode :     | 802.11 n HT 20 CH165 5825MHz | Temperature :       | 19~23℃   |
| Test Engineer : | Jack Liu                     | Relative Humidity : | 59~62%   |
| Frequency Range | 5.805GHz~6GHz                | Polarization :      | Vertical |

Test Site : 3m Chamber Temp/Humi : 19℃/60%  
 Tested by : Jack Pol/Phase : VERTICAL  
 Test Mode : 802.11n HT20 CH165 (5825MHz) Power rating: DC 3.85V

Data: 107



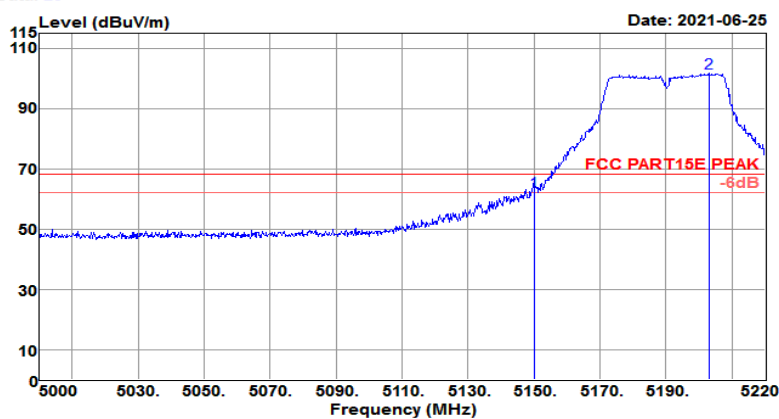
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark  |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|---------|
| 5823.720    | 87.77                    | 32.12                     | 6.12                | 34.31                  | 91.70           | 122.20                   | -30.50              | Average |
| 5850.000    | 40.27                    | 32.16                     | 6.15                | 34.33                  | 44.25           | 122.20                   | -77.95              | Average |
| 5855.000    | 33.81                    | 32.17                     | 6.16                | 34.33                  | 37.81           | 110.80                   | -72.99              | Average |
| 5875.000    | 30.87                    | 32.20                     | 6.18                | 34.34                  | 34.91           | 105.20                   | -70.29              | Average |
| 5925.000    | 28.06                    | 32.28                     | 6.22                | 34.36                  | 32.20           | 68.20                    | -36.00              | Average |



|                 |                           |                     |            |
|-----------------|---------------------------|---------------------|------------|
| Test Mode :     | 802.11n HT40 CH38 5190MHz | Temperature :       | 19~23℃     |
| Test Engineer : | Jack Liu                  | Relative Humidity : | 59~62%     |
| Frequency Range | 5.0GHz~5.22GHz            | Polarization :      | Horizontal |

Test Site : 3m Chamber Temp/Humi : 21℃/60%  
 Tested by : Jack Pol/Phase : HORIZONTAL  
 Test Mode : 802.11n HT40 CH38 (5190MHz) Power rating: DC 3.85V

Data: 29



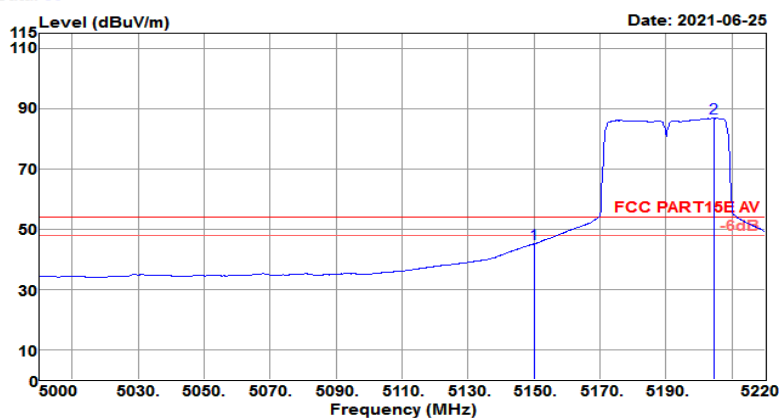
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|--------|
| 5150.000    | 56.83                    | 31.32                     | 8.17                | 33.98                  | 62.34           | 68.20                    | -5.86               | Peak   |
| 5203.060    | 96.24                    | 31.36                     | 8.26                | 34.00                  | 101.86          | 68.20                    | 33.66               | Peak   |



|                 |                           |                     |            |
|-----------------|---------------------------|---------------------|------------|
| Test Mode :     | 802.11n HT40 CH38 5190MHz | Temperature :       | 19~23℃     |
| Test Engineer : | Jack Liu                  | Relative Humidity : | 59~62%     |
| Frequency Range | 5.0GHz~5.22GHz            | Polarization :      | Horizontal |

Test Site : 3m Chamber  
Temp/Humi : 21℃/60%  
Tested by : Jack  
Pol/Phase : HORIZONTAL  
Test Mode : 802.11n HT40 CH38 (5190MHz)  
Power rating: DC 3.85V

Data: 30



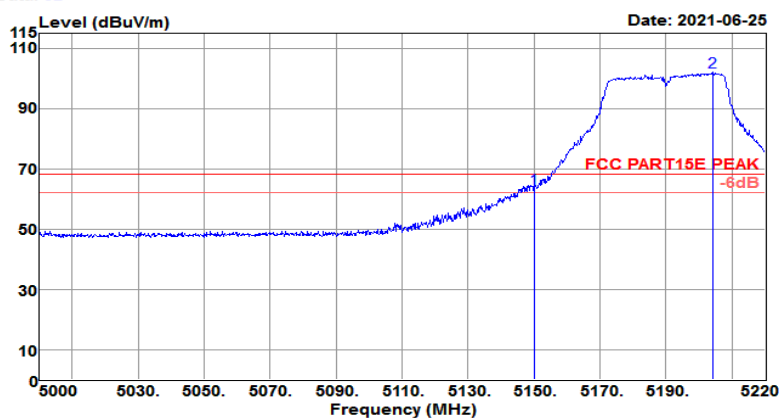
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamplifier<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark  |
|-------------|--------------------------|---------------------------|---------------------|------------------------------|-----------------|--------------------------|---------------------|---------|
| 5150.000    | 39.51                    | 31.32                     | 8.17                | 33.98                        | 45.02           | 54.00                    | -8.98               | Average |
| 5204.600    | 81.11                    | 31.36                     | 8.27                | 34.00                        | 86.74           | 54.00                    | 32.74               | Average |



|                 |                           |                     |          |
|-----------------|---------------------------|---------------------|----------|
| Test Mode :     | 802.11n HT40 CH38 5190MHz | Temperature :       | 19~23℃   |
| Test Engineer : | Jack Liu                  | Relative Humidity : | 59~62%   |
| Frequency Range | 5.0GHz~5.22GHz            | Polarization :      | Vertical |

Test Site : 3m Chamber  
Temp/Humi : 21℃/60%  
Tested by : Jack  
Pol/Phase : VERTICAL  
Test Mode : 802.11n HT40 CH38 (5190MHz)  
Power rating: DC 3.85V

Data: 32



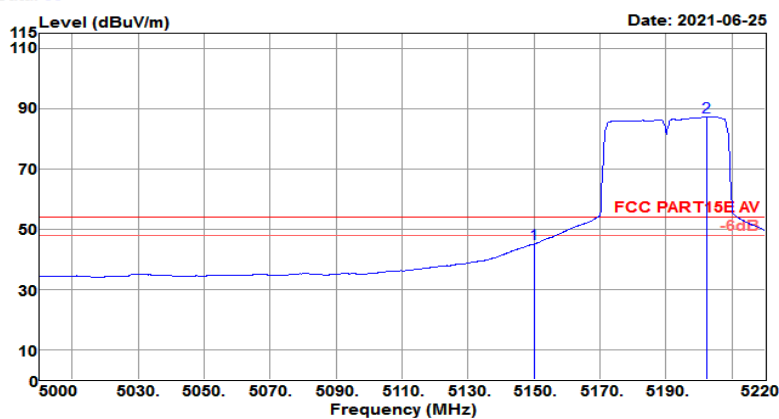
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|--------|
| 5150.000    | 57.85                    | 31.32                     | 8.17                | 33.98                  | 63.36           | 68.20                    | -4.84               | Peak   |
| 5204.160    | 96.43                    | 31.36                     | 8.27                | 34.00                  | 102.06          | 68.20                    | 33.86               | Peak   |



|                 |                           |                     |          |
|-----------------|---------------------------|---------------------|----------|
| Test Mode :     | 802.11n HT40 CH38 5190MHz | Temperature :       | 19~23℃   |
| Test Engineer : | Jack Liu                  | Relative Humidity : | 59~62%   |
| Frequency Range | 5.0GHz~5.22GHz            | Polarization :      | Vertical |

Test Site : 3m Chamber Temp/Humi : 21℃/60%  
 Tested by : Jack Pol/Phase : VERTICAL  
 Test Mode : 802.11n HT40 CH38 (5190MHz) Power rating: DC 3.85V

Data: 33



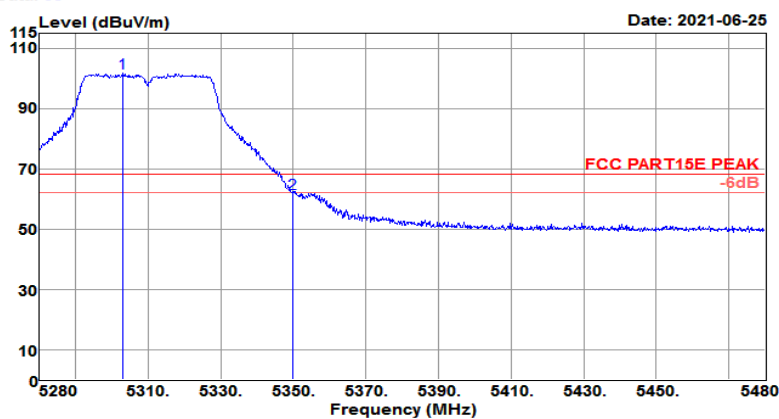
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamplifier<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark  |
|-------------|--------------------------|---------------------------|---------------------|------------------------------|-----------------|--------------------------|---------------------|---------|
| 5150.000    | 39.46                    | 31.32                     | 8.17                | 33.98                        | 44.97           | 54.00                    | -9.03               | Average |
| 5202.180    | 81.58                    | 31.36                     | 8.26                | 34.00                        | 87.20           | 54.00                    | 33.20               | Average |



|                 |                           |                     |            |
|-----------------|---------------------------|---------------------|------------|
| Test Mode :     | 802.11n HT40 CH62 5310MHz | Temperature :       | 19~23℃     |
| Test Engineer : | Jack Liu                  | Relative Humidity : | 59~62%     |
| Frequency Range | 5.28GHz~5.48GHz           | Polarization :      | Horizontal |

Test Site : 3m Chamber  
Temp/Humi : 21℃/60%  
Tested by : Jack  
Pol/Phase : HORIZONTAL  
Test Mode : 802.11n HT40 CH62 (5310MHz)  
Power rating: DC 3.85V

Data: 38



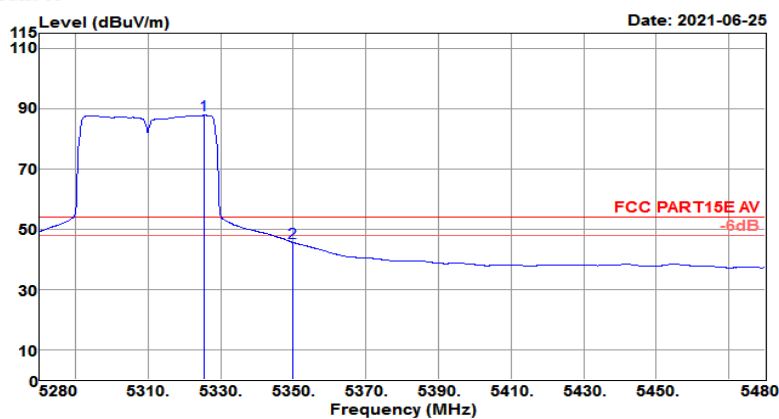
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|--------|
| 5303.200    | 95.70                    | 31.44                     | 8.65                | 34.05                  | 101.74          | 68.20                    | 33.54               | Peak   |
| 5350.000    | 55.63                    | 31.48                     | 8.84                | 34.08                  | 61.87           | 68.20                    | -6.33               | Peak   |



|                 |                           |                     |            |
|-----------------|---------------------------|---------------------|------------|
| Test Mode :     | 802.11n HT40 CH62 5310MHz | Temperature :       | 19~23℃     |
| Test Engineer : | Jack Liu                  | Relative Humidity : | 59~62%     |
| Frequency Range | 5.28GHz~5.48GHz           | Polarization :      | Horizontal |

Test Site : 3m Chamber  
Temp/Humi : 21℃/60%  
Tested by : Jack  
Pol/Phase : HORIZONTAL  
Test Mode : 802.11n HT40 CH62 (5310MHz)  
Power rating: DC 3.85V

Data: 39



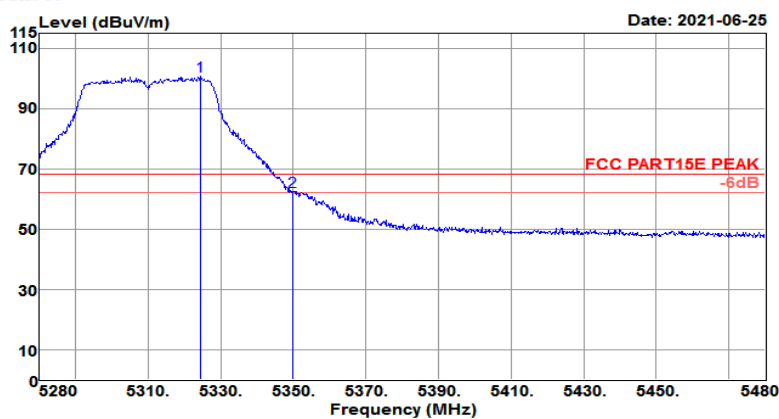
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark  |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|---------|
| 5325.600    | 81.62                    | 31.46                     | 8.74                | 34.06                  | 87.76           | 54.00                    | 33.76               | Average |
| 5350.000    | 39.23                    | 31.48                     | 8.84                | 34.08                  | 45.47           | 54.00                    | -8.53               | Average |



|                 |                           |                     |          |
|-----------------|---------------------------|---------------------|----------|
| Test Mode :     | 802.11n HT40 CH62 5310MHz | Temperature :       | 19~23℃   |
| Test Engineer : | Jack Liu                  | Relative Humidity : | 59~62%   |
| Frequency Range | 5.28GHz~5.48GHz           | Polarization :      | Vertical |

Test Site : 3m Chamber  
Temp/Humi : 21℃/60%  
Tested by : Jack  
Pol/Phase : VERTICAL  
Test Mode : 802.11n HT40 CH62 (5310MHz)  
Power rating: DC 3.85V

Data: 35



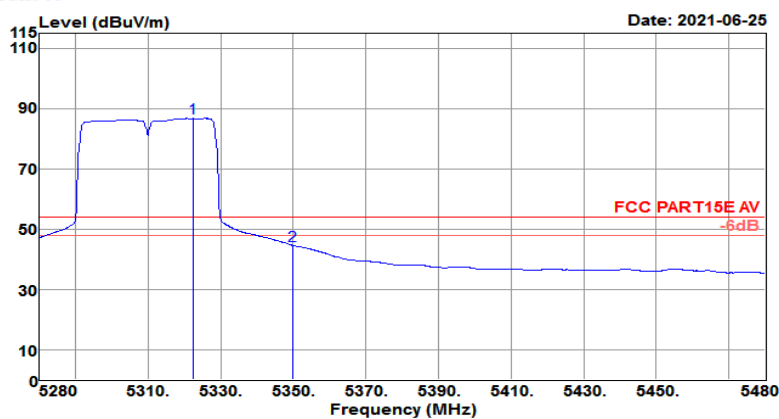
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|--------|
| 5324.400    | 94.57                    | 31.46                     | 8.74                | 34.06                  | 100.71          | 68.20                    | 32.51               | Peak   |
| 5350.000    | 56.12                    | 31.48                     | 8.84                | 34.08                  | 62.36           | 68.20                    | -5.84               | Peak   |



|                 |                           |                     |          |
|-----------------|---------------------------|---------------------|----------|
| Test Mode :     | 802.11n HT40 CH62 5310MHz | Temperature :       | 19~23℃   |
| Test Engineer : | Jack Liu                  | Relative Humidity : | 59~62%   |
| Frequency Range | 5.28GHz~5.48GHz           | Polarization :      | Vertical |

Test Site : 3m Chamber  
Temp/Humi : 21℃/60%  
Tested by : Jack  
Pol/Phase : VERTICAL  
Test Mode : 802.11n HT40 CH62 (5310MHz)  
Power rating: DC 3.85V

Data: 36



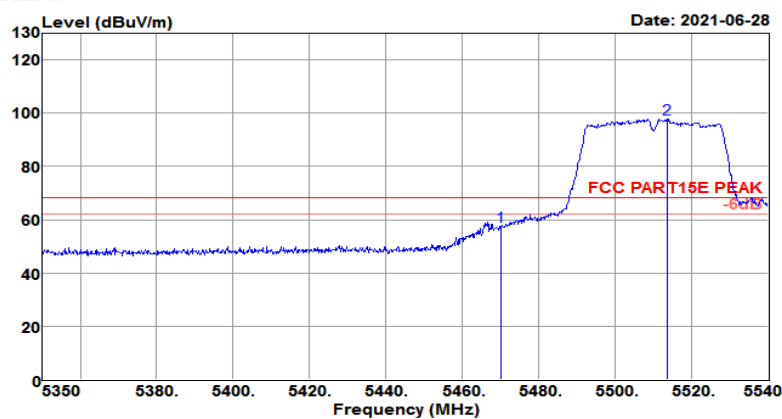
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark  |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|---------|
| 5322.600    | 80.57                    | 31.46                     | 8.73                | 34.06                  | 86.70           | 54.00                    | 32.70               | Average |
| 5350.000    | 38.23                    | 31.48                     | 8.84                | 34.08                  | 44.47           | 54.00                    | -9.53               | Average |



|                 |                            |                     |            |
|-----------------|----------------------------|---------------------|------------|
| Test Mode :     | 802.11n HT40 CH102 5510MHz | Temperature :       | 19~23℃     |
| Test Engineer : | Jack Liu                   | Relative Humidity : | 59~62%     |
| Frequency Range | 5.35GHz~5.54GHz            | Polarization :      | Horizontal |

|                                         |                        |
|-----------------------------------------|------------------------|
| Test Site : 3m Chamber                  | Temp/Humi : 23℃/59%    |
| Tested by : Jack                        | Pol/Phase : HORIZONTAL |
| Test Mode : 802.11n HT40 CH102(5510MHz) | Power rating: DC 3.85V |

Data: 97



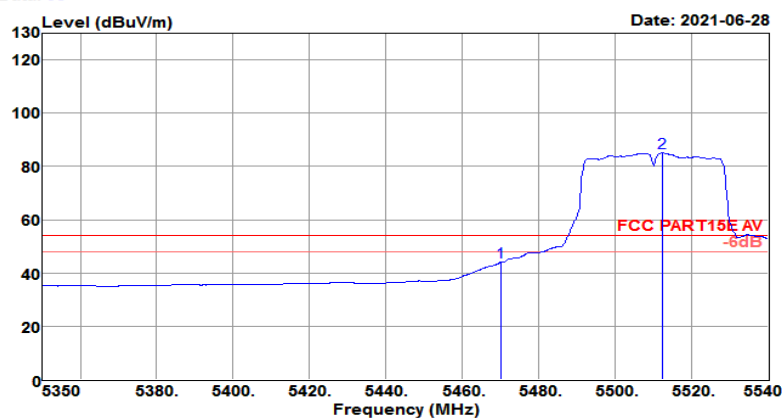
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|--------|
| 5470.000    | 51.23                    | 31.58                     | 8.86                | 34.14                  | 57.53           | 68.20                    | -10.67              | Peak   |
| 5513.590    | 91.59                    | 31.62                     | 8.75                | 34.16                  | 97.80           | 68.20                    | 29.60               | Peak   |



|                 |                            |                     |            |
|-----------------|----------------------------|---------------------|------------|
| Test Mode :     | 802.11n HT40 CH102 5510MHz | Temperature :       | 19~23℃     |
| Test Engineer : | Jack Liu                   | Relative Humidity : | 59~62%     |
| Frequency Range | 5.35GHz~5.54GHz            | Polarization :      | Horizontal |

Test Site : 3m Chamber Temp/Humi : 23℃/59%  
 Tested by : Jack Pol/Phase : HORIZONTAL  
 Test Mode : 802.11n HT40 CH102(5510MHz) Power rating: DC 3.85V

Data: 98



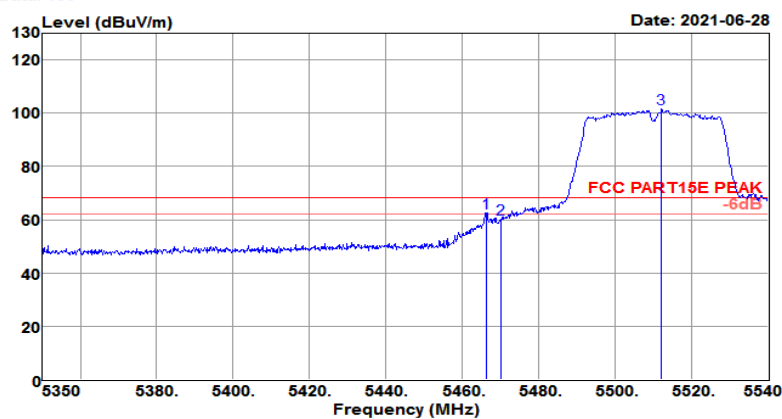
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamplifier<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark  |
|-------------|--------------------------|---------------------------|---------------------|------------------------------|-----------------|--------------------------|---------------------|---------|
| 5470.000    | 37.75                    | 31.58                     | 8.86                | 34.14                        | 44.05           | 54.00                    | -9.95               | Average |
| 5512.260    | 78.85                    | 31.62                     | 8.75                | 34.16                        | 85.06           | 54.00                    | 31.06               | Average |



|                 |                            |                     |          |
|-----------------|----------------------------|---------------------|----------|
| Test Mode :     | 802.11n HT40 CH102 5510MHz | Temperature :       | 19~23℃   |
| Test Engineer : | Jack Liu                   | Relative Humidity : | 59~62%   |
| Frequency Range | 5.35GHz~5.54GHz            | Polarization :      | Vertical |

Test Site : 3m Chamber Temp/Humi : 23℃/59%  
 Tested by : Jack Pol/Phase : VERTICAL  
 Test Mode : 802.11n HT40 CH102(5510MHz) Power rating: DC 3.85V

Data: 100



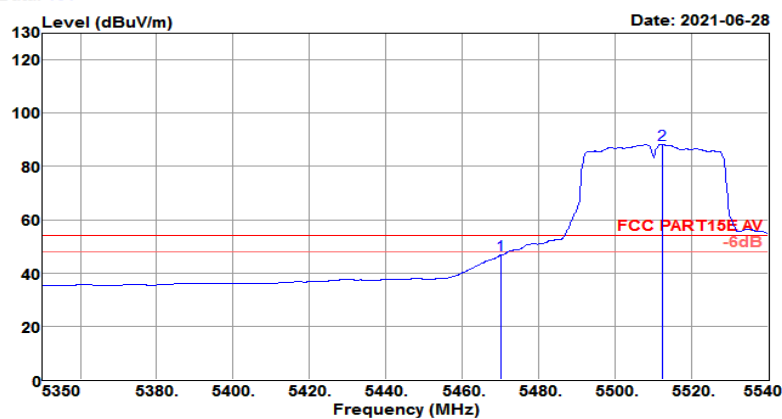
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|--------|
| 5466.280    | 56.31                    | 31.57                     | 8.87                | 34.13                  | 62.62           | 68.20                    | -5.58               | Peak   |
| 5470.000    | 53.87                    | 31.58                     | 8.86                | 34.14                  | 60.17           | 68.20                    | -8.03               | Peak   |
| 5512.070    | 95.30                    | 31.62                     | 8.76                | 34.16                  | 101.52          | 68.20                    | 33.32               | Peak   |



|                 |                            |                     |          |
|-----------------|----------------------------|---------------------|----------|
| Test Mode :     | 802.11n HT40 CH102 5510MHz | Temperature :       | 19~23℃   |
| Test Engineer : | Jack Liu                   | Relative Humidity : | 59~62%   |
| Frequency Range | 5.35GHz~5.54GHz            | Polarization :      | Vertical |

Test Site : 3m Chamber Temp/Humi : 23℃/59%  
 Tested by : Jack Pol/Phase : VERTICAL  
 Test Mode : 802.11n HT40 CH102(5510MHz) Power rating: DC 3.85V

Data: 101



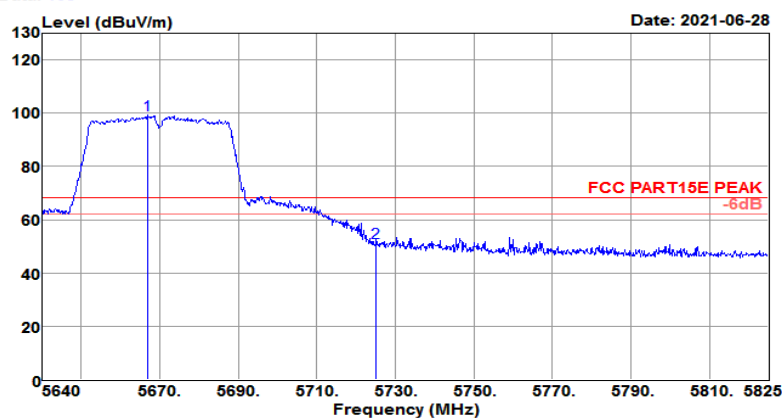
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark  |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|---------|
| 5470.000    | 40.47                    | 31.58                     | 8.86                | 34.14                  | 46.77           | 54.00                    | -7.23               | Average |
| 5512.260    | 82.07                    | 31.62                     | 8.75                | 34.16                  | 88.28           | 54.00                    | 34.28               | Average |



|                 |                            |                     |            |
|-----------------|----------------------------|---------------------|------------|
| Test Mode :     | 802.11n HT40 CH134 5670MHz | Temperature :       | 19~23℃     |
| Test Engineer : | Jack Liu                   | Relative Humidity : | 59~62%     |
| Frequency Range | 5.64GHz~5.825GHz           | Polarization :      | Horizontal |

Test Site : 3m Chamber  
Temp/Humi : 23℃/59%  
Tested by : Jack  
Pol/Phase : HORIZONTAL  
Test Mode : 802.11n HT40 CH134(5670MHz)  
Power rating: DC 3.85V

Data: 108



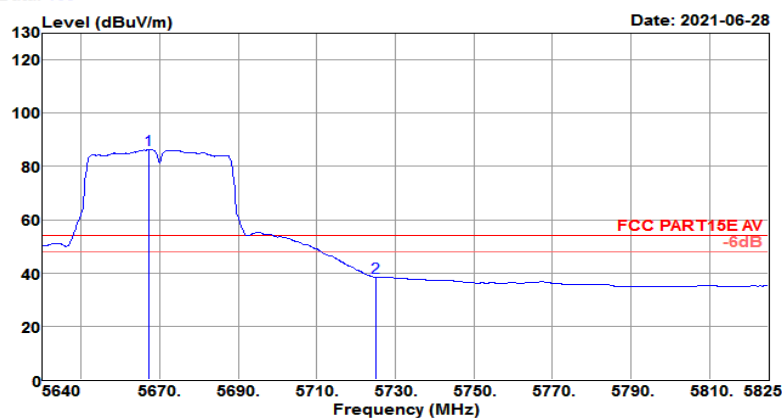
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|--------|
| 5667.010    | 93.40                    | 31.87                     | 8.14                | 34.23                  | 99.18           | 68.20                    | 30.98               | Peak   |
| 5725.000    | 45.76                    | 31.96                     | 7.80                | 34.26                  | 51.26           | 68.20                    | -16.94              | Peak   |



|                 |                            |                     |            |
|-----------------|----------------------------|---------------------|------------|
| Test Mode :     | 802.11n HT40 CH134 5670MHz | Temperature :       | 19~23℃     |
| Test Engineer : | Jack Liu                   | Relative Humidity : | 59~62%     |
| Frequency Range | 5.64GHz~5.825GHz           | Polarization :      | Horizontal |

Test Site : 3m Chamber  
Temp/Humi : 23℃/59%  
Tested by : Jack  
Pol/Phase : HORIZONTAL  
Test Mode : 802.11n HT40 CH134(5670MHz)  
Power rating: DC 3.85V

Data: 109



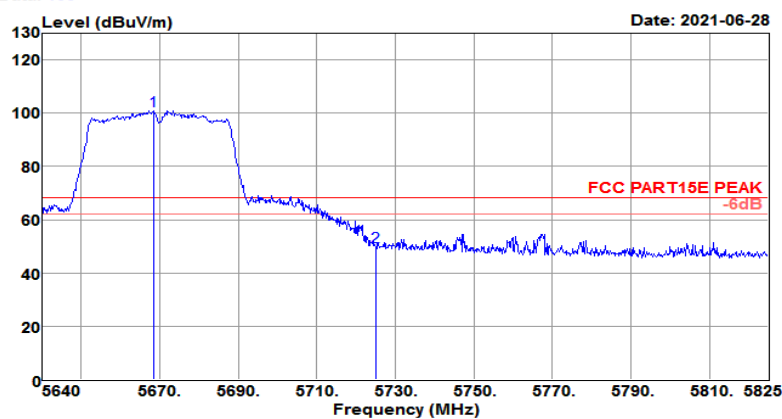
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark  |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|---------|
| 5667.195    | 80.46                    | 31.87                     | 8.14                | 34.23                  | 86.24           | 54.00                    | 32.24               | Average |
| 5725.000    | 32.86                    | 31.96                     | 7.80                | 34.26                  | 38.36           | 54.00                    | -15.64              | Average |



|                 |                            |                     |          |
|-----------------|----------------------------|---------------------|----------|
| Test Mode :     | 802.11n HT40 CH134 5670MHz | Temperature :       | 19~23℃   |
| Test Engineer : | Jack Liu                   | Relative Humidity : | 59~62%   |
| Frequency Range | 5.64GHz~5.825GHz           | Polarization :      | Vertical |

Test Site : 3m Chamber Temp/Humi : 23℃/59%  
 Tested by : Jack Pol/Phase : VERTICAL  
 Test Mode : 802.11n HT40 CH134(5670MHz) Power rating: DC 3.85V

Data: 105



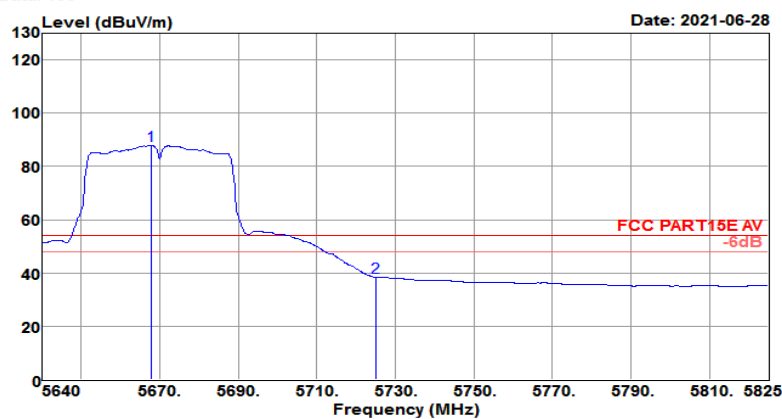
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|--------|
| 5668.490    | 95.05                    | 31.87                     | 8.13                | 34.23                  | 100.82          | 68.20                    | 32.62               | Peak   |
| 5725.000    | 44.37                    | 31.96                     | 7.80                | 34.26                  | 49.87           | 68.20                    | -18.33              | Peak   |



|                 |                            |                     |          |
|-----------------|----------------------------|---------------------|----------|
| Test Mode :     | 802.11n HT40 CH134 5670MHz | Temperature :       | 19~23℃   |
| Test Engineer : | Jack Liu                   | Relative Humidity : | 59~62%   |
| Frequency Range | 5.64GHz~5.825GHz           | Polarization :      | Vertical |

Test Site : 3m Chamber  
Temp/Humi : 23℃/59%  
Tested by : Jack  
Pol/Phase : VERTICAL  
Test Mode : 802.11n HT40 CH134(5670MHz)  
Power rating: DC 3.85V

Data: 106



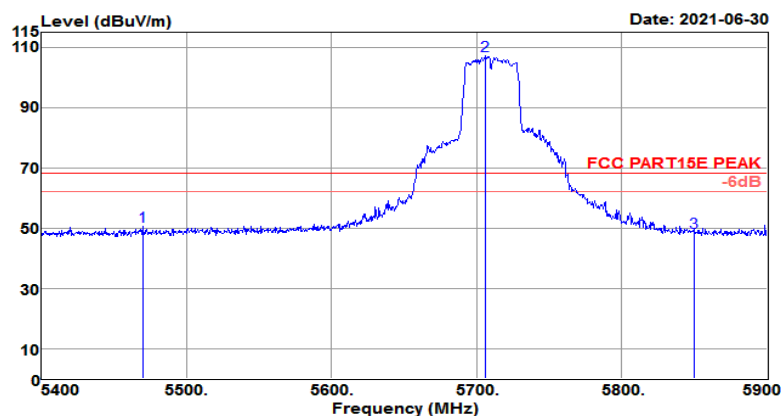
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark  |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|---------|
| 5667.935    | 82.01                    | 31.87                     | 8.14                | 34.23                  | 87.79           | 54.00                    | 33.79               | Average |
| 5725.000    | 32.82                    | 31.96                     | 7.80                | 34.26                  | 38.32           | 54.00                    | -15.68              | Average |



|                 |                            |                     |            |
|-----------------|----------------------------|---------------------|------------|
| Test Mode :     | 802.11n HT40 CH142 5710MHz | Temperature :       | 18~21℃     |
| Test Engineer : | Jack Liu                   | Relative Humidity : | 59~63%     |
| Frequency Range | 5.4GHz~5.9GHz              | Polarization :      | Horizontal |

Test Site : 3m Chamber Temp/Humi : 22℃/61%  
 Tested by : Jack Pol/Phase : HORIZONTAL  
 Test Mode : 802.11n HT40 CH142 (5710MHz) Power rating: DC 3.85V

Data: 171



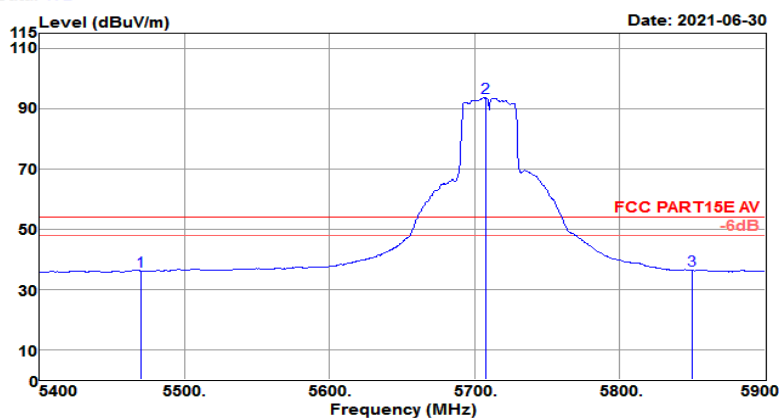
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|--------|
| 5470.000    | 44.28                    | 31.58                     | 8.86                | 34.14                  | 50.58           | 68.20                    | -17.62              | Peak   |
| 5706.000    | 101.53                   | 31.93                     | 7.91                | 34.25                  | 107.12          | 68.20                    | 38.92               | Peak   |
| 5850.000    | 43.27                    | 32.16                     | 7.46                | 34.33                  | 48.56           | 68.20                    | -19.64              | Peak   |



|                 |                            |                     |            |
|-----------------|----------------------------|---------------------|------------|
| Test Mode :     | 802.11n HT40 CH142 5710MHz | Temperature :       | 18~21℃     |
| Test Engineer : | Jack Liu                   | Relative Humidity : | 59~63%     |
| Frequency Range | 5.4GHz~5.9GHz              | Polarization :      | Horizontal |

Test Site : 3m Chamber Temp/Humi : 22℃/61%  
 Tested by : Jack Pol/Phase : HORIZONTAL  
 Test Mode : 802.11n HT40 CH142 (5710MHz) Power rating: DC 3.85V

Data: 172



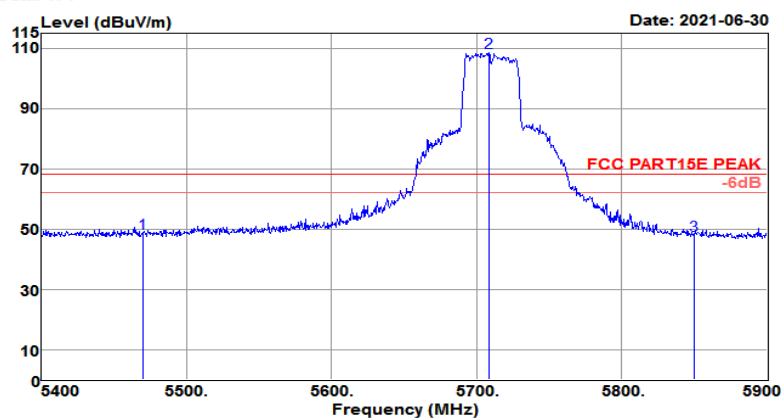
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark  |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|---------|
| 5470.000    | 29.71                    | 31.58                     | 8.86                | 34.14                  | 36.01           | 54.00                    | -17.99              | Average |
| 5708.000    | 87.97                    | 31.93                     | 7.90                | 34.25                  | 93.55           | 54.00                    | 39.55               | Average |
| 5850.000    | 30.89                    | 32.16                     | 7.46                | 34.33                  | 36.18           | 54.00                    | -17.82              | Average |



|                 |                            |                     |          |
|-----------------|----------------------------|---------------------|----------|
| Test Mode :     | 802.11n HT40 CH142 5710MHz | Temperature :       | 18~21℃   |
| Test Engineer : | Jack Liu                   | Relative Humidity : | 59~63%   |
| Frequency Range | 5.4GHz~5.9GHz              | Polarization :      | Vertical |

Test Site : 3m Chamber Temp/Humi : 22℃/61%  
 Tested by : Jack Pol/Phase : VERTICAL  
 Test Mode : 802.11n HT40 CH142 (5710MHz) Power rating: DC 3.85V

Data: 174



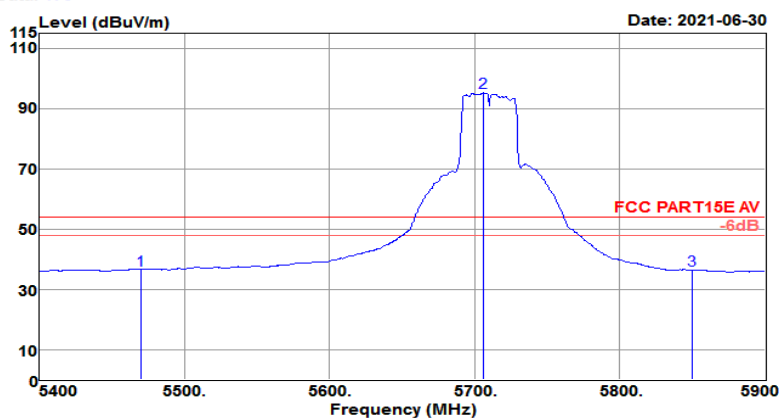
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|--------|
| 5470.000    | 42.18                    | 31.58                     | 8.86                | 34.14                  | 48.48           | 68.20                    | -19.72              | Peak   |
| 5708.500    | 102.84                   | 31.93                     | 7.89                | 34.25                  | 108.41          | 68.20                    | 40.21               | Peak   |
| 5850.000    | 42.47                    | 32.16                     | 7.46                | 34.33                  | 47.76           | 68.20                    | -20.44              | Peak   |



|                 |                            |                     |          |
|-----------------|----------------------------|---------------------|----------|
| Test Mode :     | 802.11n HT40 CH142 5710MHz | Temperature :       | 18~21℃   |
| Test Engineer : | Jack Liu                   | Relative Humidity : | 59~63%   |
| Frequency Range | 5.4GHz~5.9GHz              | Polarization :      | Vertical |

Test Site : 3m Chamber Temp/Humi : 22℃/61%  
 Tested by : Jack Pol/Phase : VERTICAL  
 Test Mode : 802.11n HT40 CH142 (5710MHz) Power rating: DC 3.85V

Data: 175

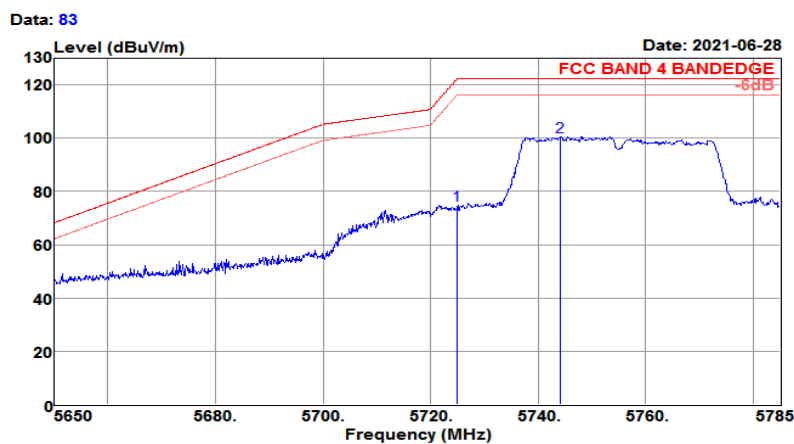


| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark  |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|---------|
| 5470.000    | 30.17                    | 31.58                     | 8.86                | 34.14                  | 36.47           | 54.00                    | -17.53              | Average |
| 5706.000    | 89.59                    | 31.93                     | 7.91                | 34.25                  | 95.18           | 54.00                    | 41.18               | Average |
| 5850.000    | 30.96                    | 32.16                     | 7.46                | 34.33                  | 36.25           | 54.00                    | -17.75              | Average |



|                 |                            |                     |            |
|-----------------|----------------------------|---------------------|------------|
| Test Mode :     | 802.11n HT40 CH151 5755MHz | Temperature :       | 19~23℃     |
| Test Engineer : | Jack Liu                   | Relative Humidity : | 59~62%     |
| Frequency Range | 5.65GHz~5.785GHz           | Polarization :      | Horizontal |

Test Site : 3m Chamber Temp/Humi : 19℃/60%  
 Tested by : Jack Pol/Phase : HORIZONTAL  
 Test Mode : 802.11n HT40 CH151 (5755MHz) Power rating: DC 3.85V



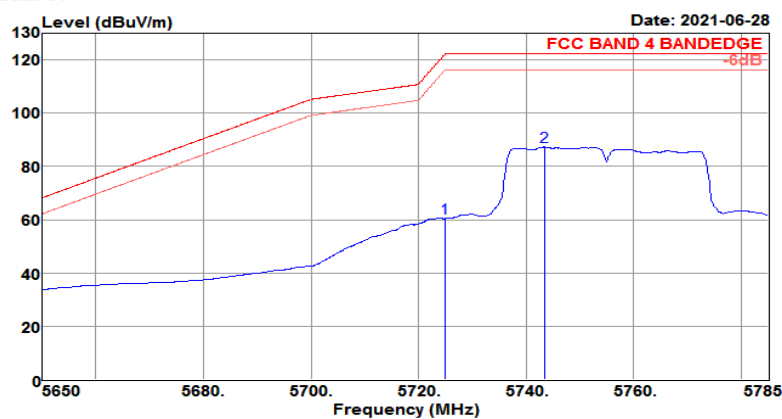
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|--------|
| 5725.000    | 71.12                    | 31.96                     | 6.04                | 34.26                  | 74.86           | 122.20                   | -47.34              | Peak   |
| 5744.230    | 96.79                    | 31.99                     | 6.06                | 34.27                  | 100.57          | 122.20                   | -21.63              | Peak   |



|                 |                            |                     |            |
|-----------------|----------------------------|---------------------|------------|
| Test Mode :     | 802.11n HT40 CH151 5755MHz | Temperature :       | 19~23℃     |
| Test Engineer : | Jack Liu                   | Relative Humidity : | 59~62%     |
| Frequency Range | 5.65GHz~5.785GHz           | Polarization :      | Horizontal |

Test Site : 3m Chamber      Temp/Humi : 19℃/60%  
 Tested by : Jack      Pol/Phase : HORIZONTAL  
 Test Mode : 802.11n HT40 CH151 (5755MHz)      Power rating: DC 3.85V

Data: 84

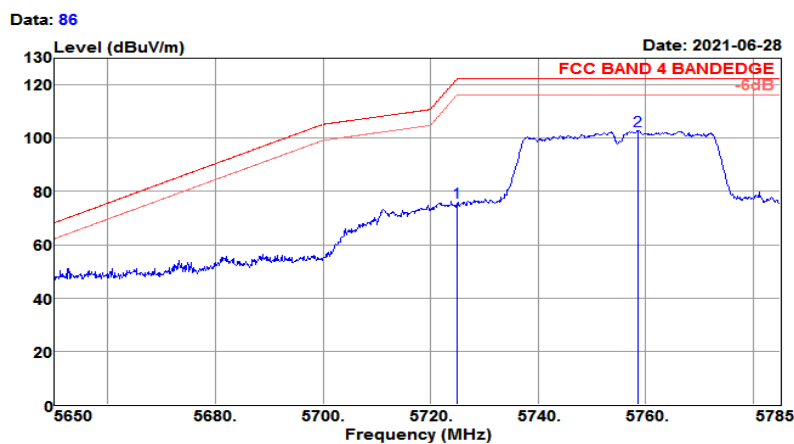


| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark  |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|---------|
| 5725.000    | 56.73                    | 31.96                     | 6.04                | 34.26                  | 60.47           | 122.20                   | -61.73              | Average |
| 5743.420    | 83.55                    | 31.99                     | 6.05                | 34.27                  | 87.32           | 122.20                   | -34.88              | Average |



|                 |                            |                     |          |
|-----------------|----------------------------|---------------------|----------|
| Test Mode :     | 802.11n HT40 CH151 5755MHz | Temperature :       | 19~23℃   |
| Test Engineer : | Jack Liu                   | Relative Humidity : | 59~62%   |
| Frequency Range | 5.65GHz~5.785GHz           | Polarization :      | Vertical |

Test Site : 3m Chamber Temp/Humi : 19℃/60%  
 Tested by : Jack Pol/Phase : VERTICAL  
 Test Mode : 802.11n HT40 CH151 (5755MHz) Power rating: DC 3.85V

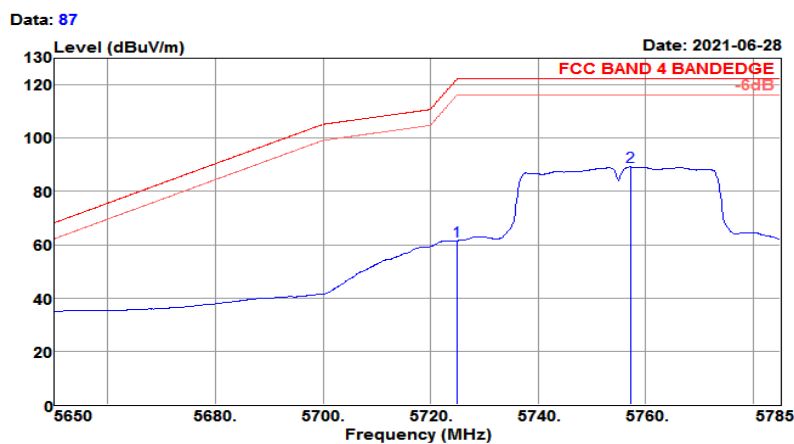


| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|--------|
| 5725.000    | 72.02                    | 31.96                     | 6.04                | 34.26                  | 75.76           | 122.20                   | -46.44              | Peak   |
| 5758.540    | 98.96                    | 32.01                     | 6.07                | 34.28                  | 102.76          | 122.20                   | -19.44              | Peak   |



|                 |                            |                     |          |
|-----------------|----------------------------|---------------------|----------|
| Test Mode :     | 802.11n HT40 CH151 5755MHz | Temperature :       | 19~23℃   |
| Test Engineer : | Jack Liu                   | Relative Humidity : | 59~62%   |
| Frequency Range | 5.65GHz~5.785GHz           | Polarization :      | Vertical |

Test Site : 3m Chamber Temp/Humi : 19℃/60%  
 Tested by : Jack Pol/Phase : VERTICAL  
 Test Mode : 802.11n HT40 CH151 (5755MHz) Power rating: DC 3.85V



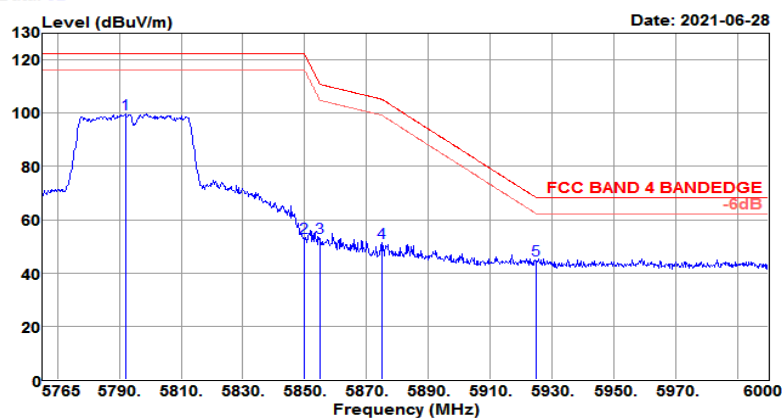
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark  |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|---------|
| 5725.000    | 57.77                    | 31.96                     | 6.04                | 34.26                  | 61.51           | 122.20                   | -60.69              | Average |
| 5757.190    | 85.47                    | 32.01                     | 6.07                | 34.28                  | 89.27           | 122.20                   | -32.93              | Average |



|                 |                            |                     |            |
|-----------------|----------------------------|---------------------|------------|
| Test Mode :     | 802.11n HT40 CH159 5795MHz | Temperature :       | 19~23℃     |
| Test Engineer : | Jack Liu                   | Relative Humidity : | 59~62%     |
| Frequency Range | 5.765GHz~6GHz              | Polarization :      | Horizontal |

Test Site : 3m Chamber Temp/Humi : 19℃/60%  
 Tested by : Jack Pol/Phase : HORIZONTAL  
 Test Mode : 802.11n HT40 CH159 (5795MHz) Power rating: DC 3.85V

Data: 92



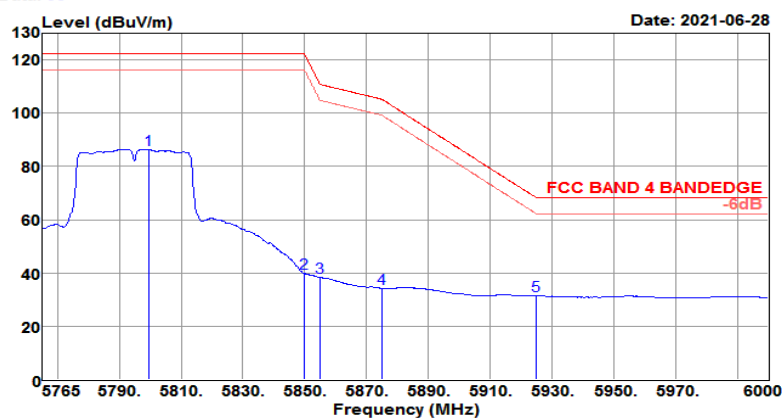
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|--------|
| 5792.025    | 95.85                    | 32.07                     | 6.09                | 34.30                  | 99.71           | 122.20                   | -22.49              | Peak   |
| 5850.000    | 49.40                    | 32.16                     | 6.15                | 34.33                  | 53.38           | 122.20                   | -68.82              | Peak   |
| 5855.000    | 49.28                    | 32.17                     | 6.16                | 34.33                  | 53.28           | 110.80                   | -57.52              | Peak   |
| 5875.000    | 47.18                    | 32.20                     | 6.18                | 34.34                  | 51.22           | 105.20                   | -53.98              | Peak   |
| 5925.000    | 40.75                    | 32.28                     | 6.22                | 34.36                  | 44.89           | 68.20                    | -23.31              | Peak   |



|                 |                            |                     |            |
|-----------------|----------------------------|---------------------|------------|
| Test Mode :     | 802.11n HT40 CH159 5795MHz | Temperature :       | 19~23℃     |
| Test Engineer : | Jack Liu                   | Relative Humidity : | 59~62%     |
| Frequency Range | 5.765GHz~6GHz              | Polarization :      | Horizontal |

Test Site : 3m Chamber Temp/Humi : 19℃/60%  
 Tested by : Jack Pol/Phase : HORIZONTAL  
 Test Mode : 802.11n HT40 CH159 (5795MHz) Power rating: DC 3.85V

Data: 93



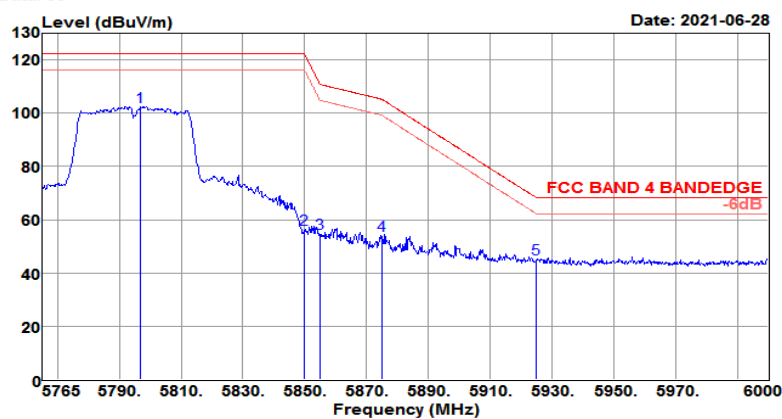
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark  |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|---------|
| 5799.545    | 82.61                    | 32.08                     | 6.10                | 34.30                  | 86.49           | 122.20                   | -35.71              | Average |
| 5850.000    | 35.91                    | 32.16                     | 6.15                | 34.33                  | 39.89           | 122.20                   | -82.31              | Average |
| 5855.000    | 34.51                    | 32.17                     | 6.16                | 34.33                  | 38.51           | 110.80                   | -72.29              | Average |
| 5875.000    | 30.29                    | 32.20                     | 6.18                | 34.34                  | 34.33           | 105.20                   | -70.87              | Average |
| 5925.000    | 27.36                    | 32.28                     | 6.22                | 34.36                  | 31.50           | 68.20                    | -36.70              | Average |



|                 |                            |                     |          |
|-----------------|----------------------------|---------------------|----------|
| Test Mode :     | 802.11n HT40 CH159 5795MHz | Temperature :       | 19~23℃   |
| Test Engineer : | Jack Liu                   | Relative Humidity : | 59~62%   |
| Frequency Range | 5.765GHz~6GHz              | Polarization :      | Vertical |

Test Site : 3m Chamber Temp/Humi : 19℃/60%  
 Tested by : Jack Pol/Phase : VERTICAL  
 Test Mode : 802.11n HT40 CH159 (5795MHz) Power rating: DC 3.85V

Data: 89

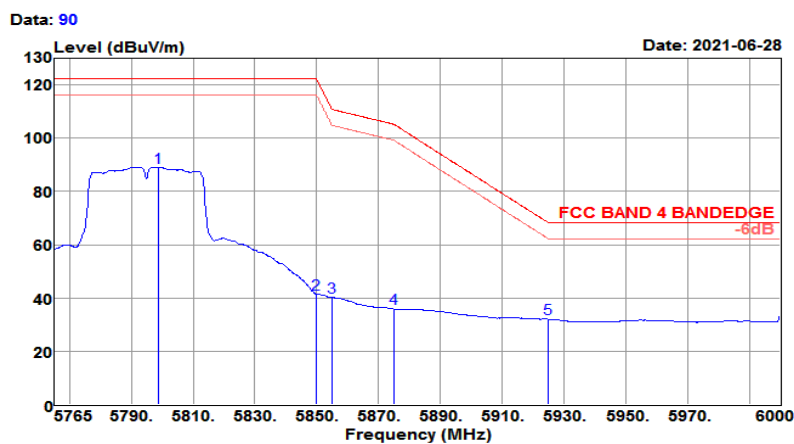


| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|--------|
| 5796.960    | 98.65                    | 32.08                     | 6.10                | 34.30                  | 102.53          | 122.20                   | -19.67              | Peak   |
| 5850.000    | 52.49                    | 32.16                     | 6.15                | 34.33                  | 56.47           | 122.20                   | -65.73              | Peak   |
| 5855.000    | 51.05                    | 32.17                     | 6.16                | 34.33                  | 55.05           | 110.80                   | -55.75              | Peak   |
| 5875.000    | 50.04                    | 32.20                     | 6.18                | 34.34                  | 54.08           | 105.20                   | -51.12              | Peak   |
| 5925.000    | 41.03                    | 32.28                     | 6.22                | 34.36                  | 45.17           | 68.20                    | -23.03              | Peak   |



|                 |                            |                     |          |
|-----------------|----------------------------|---------------------|----------|
| Test Mode :     | 802.11n HT40 CH159 5795MHz | Temperature :       | 19~23℃   |
| Test Engineer : | Jack Liu                   | Relative Humidity : | 59~62%   |
| Frequency Range | 5.765GHz~6GHz              | Polarization :      | Vertical |

Test Site : 3m Chamber Temp/Humi : 19℃/60%  
 Tested by : Jack Pol/Phase : VERTICAL  
 Test Mode : 802.11n HT40 CH159 (5795MHz) Power rating: DC 3.85V



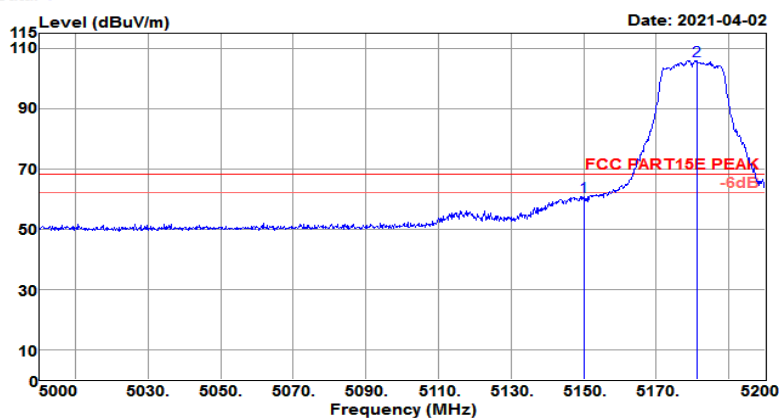
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark  |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|---------|
| 5798.605    | 85.29                    | 32.08                     | 6.10                | 34.30                  | 89.17           | 122.20                   | -33.03              | Average |
| 5850.000    | 37.60                    | 32.16                     | 6.15                | 34.33                  | 41.58           | 122.20                   | -80.62              | Average |
| 5855.000    | 36.33                    | 32.17                     | 6.16                | 34.33                  | 40.33           | 110.80                   | -70.47              | Average |
| 5875.000    | 31.86                    | 32.20                     | 6.18                | 34.34                  | 35.90           | 105.20                   | -69.30              | Average |
| 5925.000    | 27.91                    | 32.28                     | 6.22                | 34.36                  | 32.05           | 68.20                    | -36.15              | Average |



|                 |                              |                     |            |
|-----------------|------------------------------|---------------------|------------|
| Test Mode :     | 802.11ac VHT 20 CH36 5180MHz | Temperature :       | 19~23℃     |
| Test Engineer : | Jack Liu                     | Relative Humidity : | 59~62%     |
| Frequency Range | 5.0GHz~5.2GHz                | Polarization :      | Horizontal |

Test Site : 3m Chamber Temp/Humi : 19℃/60%  
 Tested by : Jack Pol/Phase : HORIZONTAL  
 Test Mode : 802.11ac VHT20 CH36(5180MHz) Power rating: DC 3.85V

Data: 4



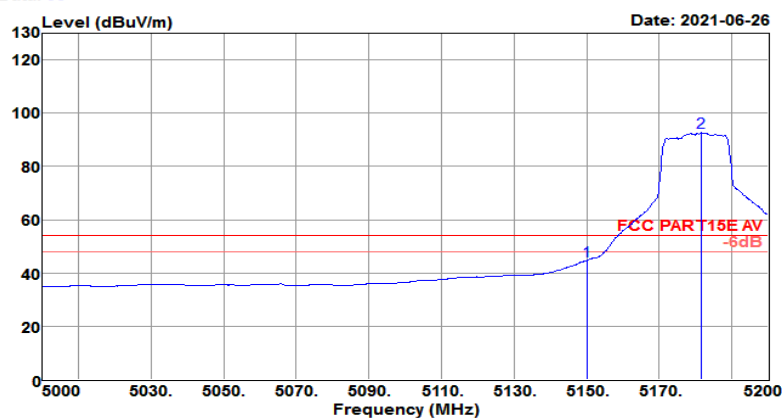
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|--------|
| 5150.000    | 55.07                    | 31.32                     | 8.17                | 33.98                  | 60.58           | 68.20                    | -7.62               | Peak   |
| 5181.400    | 100.40                   | 31.35                     | 8.22                | 33.99                  | 105.98          | 68.20                    | 37.78               | Peak   |



|                 |                              |                     |            |
|-----------------|------------------------------|---------------------|------------|
| Test Mode :     | 802.11ac VHT 20 CH36 5180MHz | Temperature :       | 19~23℃     |
| Test Engineer : | Jack Liu                     | Relative Humidity : | 59~62%     |
| Frequency Range | 5.0GHz~5.2GHz                | Polarization :      | Horizontal |

Test Site : 3m Chamber Temp/Humi : 23℃/59%  
 Tested by : Jack Pol/Phase : HORIZONTAL  
 Test Mode : 802.11ac VHT20 CH36(5180MHz) Power rating: DC 3.85V

Data: 93



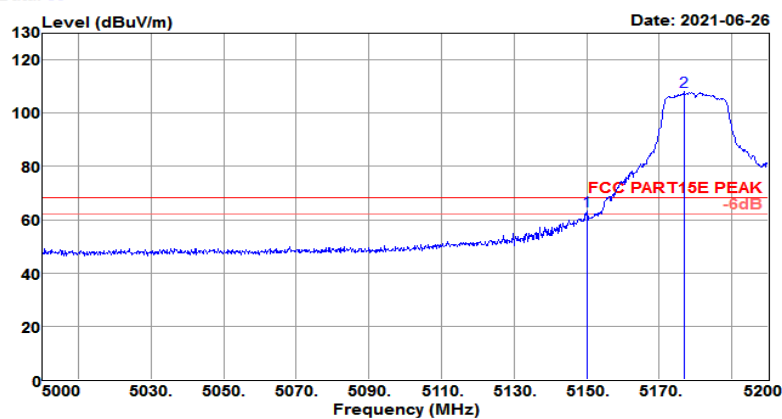
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark  |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|---------|
| 5150.000    | 39.13                    | 31.32                     | 8.17                | 33.98                  | 44.64           | 54.00                    | -9.36               | Average |
| 5181.600    | 87.07                    | 31.35                     | 8.22                | 33.99                  | 92.65           | 54.00                    | 38.65               | Average |



|                 |                              |                     |          |
|-----------------|------------------------------|---------------------|----------|
| Test Mode :     | 802.11ac VHT 20 CH36 5180MHz | Temperature :       | 19~23℃   |
| Test Engineer : | Jack Liu                     | Relative Humidity : | 59~62%   |
| Frequency Range | 5.0GHz~5.2GHz                | Polarization :      | Vertical |

Test Site : 3m Chamber Temp/Humi : 23℃/59%  
 Tested by : Jack Pol/Phase : VERTICAL  
 Test Mode : 802.11ac VHT20 CH36(5180MHz) Power rating: DC 3.85V

Data: 89



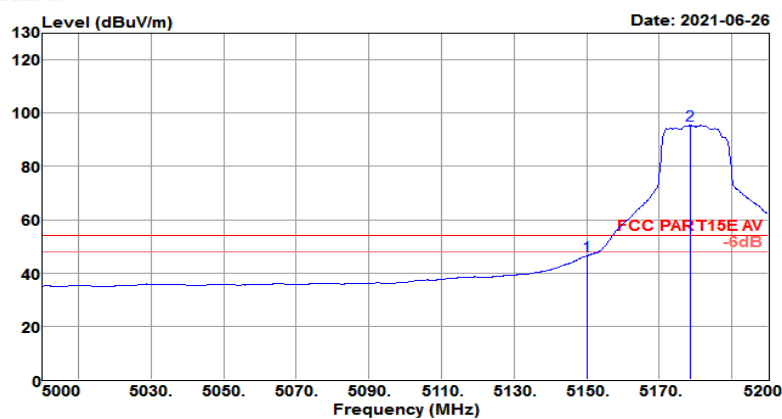
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|--------|
| 5150.000    | 57.59                    | 31.32                     | 8.17                | 33.98                  | 63.10           | 68.20                    | -5.10               | Peak   |
| 5176.800    | 102.55                   | 31.34                     | 8.21                | 33.99                  | 108.11          | 68.20                    | 39.91               | Peak   |



|                 |                              |                     |          |
|-----------------|------------------------------|---------------------|----------|
| Test Mode :     | 802.11ac VHT 20 CH36 5180MHz | Temperature :       | 19~23℃   |
| Test Engineer : | Jack Liu                     | Relative Humidity : | 59~62%   |
| Frequency Range | 5.0GHz~5.2GHz                | Polarization :      | Vertical |

Test Site : 3m Chamber Temp/Humi : 23℃/59%  
 Tested by : Jack Pol/Phase : VERTICAL  
 Test Mode : 802.11ac VHT20 CH36(5180MHz) Power rating: DC 3.85V

Data: 90



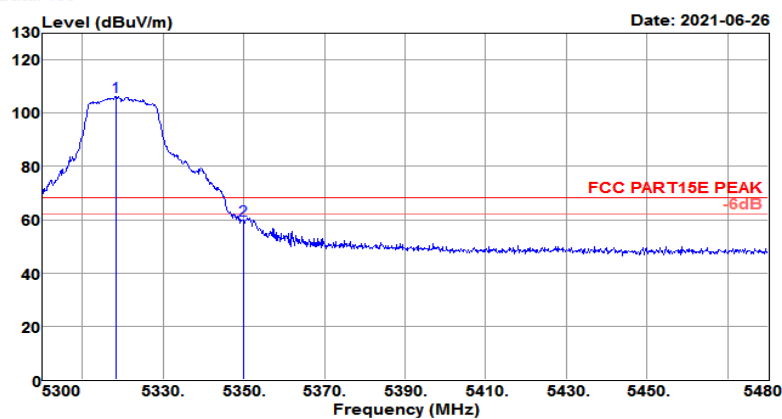
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark  |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|---------|
| 5150.000    | 40.84                    | 31.32                     | 8.17                | 33.98                  | 46.35           | 54.00                    | -7.65               | Average |
| 5178.600    | 89.84                    | 31.34                     | 8.21                | 33.99                  | 95.40           | 54.00                    | 41.40               | Average |



|                 |                               |                     |            |
|-----------------|-------------------------------|---------------------|------------|
| Test Mode :     | 802.11 ac VHT 20 CH64 5320MHz | Temperature :       | 19~23℃     |
| Test Engineer : | Jack Liu                      | Relative Humidity : | 59~62%     |
| Frequency Range | 5.3GHz~5.48GHz                | Polarization :      | Horizontal |

Test Site : 3m Chamber Temp/Humi : 23℃/59%  
 Tested by : Jack Pol/Phase : HORIZONTAL  
 Test Mode : 802.11ac VHT20 CH64(5320MHz) Power rating: DC 3.85V

Data: 100



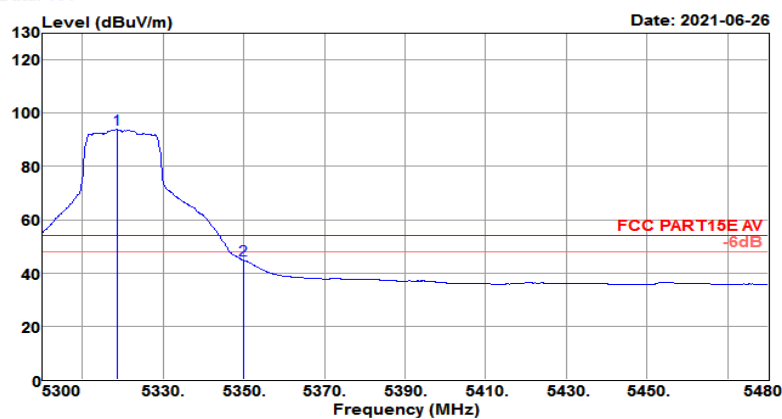
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|--------|
| 5318.360    | 100.09                   | 31.45                     | 8.71                | 34.06                  | 106.19          | 68.20                    | 37.99               | Peak   |
| 5350.000    | 53.54                    | 31.48                     | 8.84                | 34.08                  | 59.78           | 68.20                    | -8.42               | Peak   |



|                 |                               |                     |            |
|-----------------|-------------------------------|---------------------|------------|
| Test Mode :     | 802.11 ac VHT 20 CH64 5320MHz | Temperature :       | 19~23℃     |
| Test Engineer : | Jack Liu                      | Relative Humidity : | 59~62%     |
| Frequency Range | 5.3GHz~5.48GHz                | Polarization :      | Horizontal |

Test Site : 3m Chamber Temp/Humi : 23℃/59%  
 Tested by : Jack Pol/Phase : HORIZONTAL  
 Test Mode : 802.11ac VHT20 CH64(5320MHz) Power rating: DC 3.85V

Data: 101



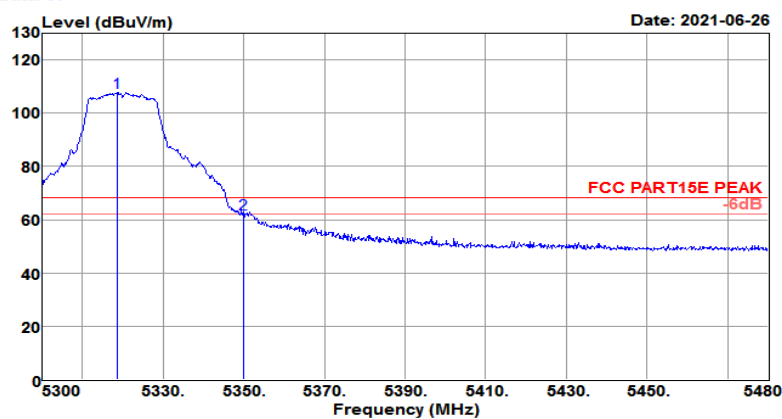
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark  |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|---------|
| 5318.540    | 87.77                    | 31.45                     | 8.71                | 34.06                  | 93.87           | 54.00                    | 39.87               | Average |
| 5350.000    | 38.49                    | 31.48                     | 8.84                | 34.08                  | 44.73           | 54.00                    | -9.27               | Average |



|                 |                               |                     |          |
|-----------------|-------------------------------|---------------------|----------|
| Test Mode :     | 802.11 ac VHT 20 CH64 5320MHz | Temperature :       | 19~23℃   |
| Test Engineer : | Jack Liu                      | Relative Humidity : | 59~62%   |
| Frequency Range | 5.3GHz~5.48GHz                | Polarization :      | Vertical |

Test Site : 3m Chamber Temp/Humi : 23℃/59%  
 Tested by : Jack Pol/Phase : VERTICAL  
 Test Mode : 802.11ac VHT20 CH64(5320MHz) Power rating: DC 3.85V

Data: 97



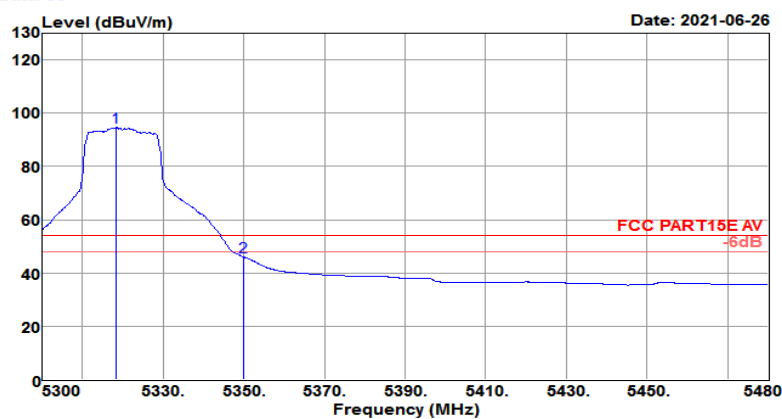
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|--------|
| 5318.720    | 101.69                   | 31.45                     | 8.71                | 34.06                  | 107.79          | 68.20                    | 39.59               | Peak   |
| 5350.000    | 55.89                    | 31.48                     | 8.84                | 34.08                  | 62.13           | 68.20                    | -6.07               | Peak   |



|                 |                               |                     |          |
|-----------------|-------------------------------|---------------------|----------|
| Test Mode :     | 802.11 ac VHT 20 CH64 5320MHz | Temperature :       | 19~23℃   |
| Test Engineer : | Jack Liu                      | Relative Humidity : | 59~62%   |
| Frequency Range | 5.3GHz~5.48GHz                | Polarization :      | Vertical |

Test Site : 3m Chamber Temp/Humi : 23℃/59%  
 Tested by : Jack Pol/Phase : VERTICAL  
 Test Mode : 802.11ac VHT20 CH64(5320MHz) Power rating: DC 3.85V

Data: 98



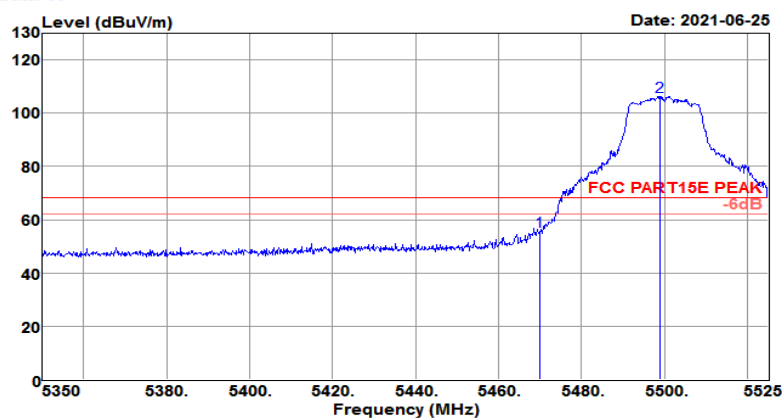
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark  |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|---------|
| 5318.360    | 88.46                    | 31.45                     | 8.71                | 34.06                  | 94.56           | 54.00                    | 40.56               | Average |
| 5350.000    | 39.77                    | 31.48                     | 8.84                | 34.08                  | 46.01           | 54.00                    | -7.99               | Average |



|                 |                                |                     |            |
|-----------------|--------------------------------|---------------------|------------|
| Test Mode :     | 802.11 ac VHT 20 CH100 5500MHz | Temperature :       | 19~23℃     |
| Test Engineer : | Jack Liu                       | Relative Humidity : | 59~62%     |
| Frequency Range | 5.35GHz~5.525GHz               | Polarization :      | Horizontal |

Test Site : 3m Chamber Temp/Humi : 23℃/59%  
 Tested by : Jack Pol/Phase : HORIZONTAL  
 Test Mode : 802.11ac VHT20 CH100(5500MHz) Power rating: DC 3.85V

Data: 69



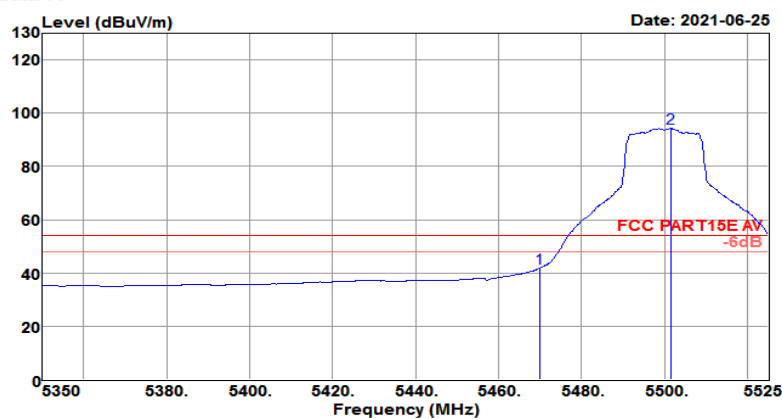
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|--------|
| 5470.000    | 49.49                    | 31.58                     | 8.86                | 34.14                  | 55.79           | 68.20                    | -12.41              | Peak   |
| 5498.925    | 100.18                   | 31.60                     | 8.79                | 34.15                  | 106.42          | 68.20                    | 38.22               | Peak   |



|                 |                                |                     |            |
|-----------------|--------------------------------|---------------------|------------|
| Test Mode :     | 802.11 ac VHT 20 CH100 5500MHz | Temperature :       | 19~23℃     |
| Test Engineer : | Jack Liu                       | Relative Humidity : | 59~62%     |
| Frequency Range | 5.35GHz~5.525GHz               | Polarization :      | Horizontal |

Test Site : 3m Chamber Temp/Humi : 23℃/59%  
 Tested by : Jack Pol/Phase : HORIZONTAL  
 Test Mode : 802.11ac VHT20 CH100(5500MHz) Power rating: DC 3.85V

Data: 70



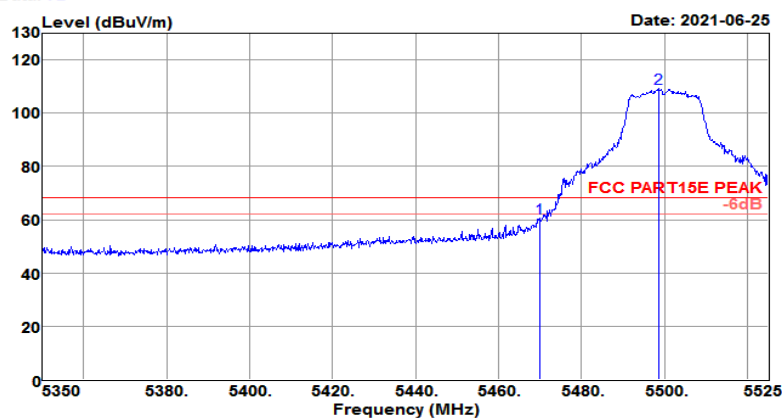
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamplifier<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark  |
|-------------|--------------------------|---------------------------|---------------------|------------------------------|-----------------|--------------------------|---------------------|---------|
| 5470.000    | 35.59                    | 31.58                     | 8.86                | 34.14                        | 41.89           | 54.00                    | -12.11              | Average |
| 5501.550    | 88.12                    | 31.60                     | 8.78                | 34.15                        | 94.35           | 54.00                    | 40.35               | Average |



|                 |                                |                     |          |
|-----------------|--------------------------------|---------------------|----------|
| Test Mode :     | 802.11 ac VHT 20 CH100 5500MHz | Temperature :       | 19~23℃   |
| Test Engineer : | Jack Liu                       | Relative Humidity : | 59~62%   |
| Frequency Range | 5.35GHz~5.525GHz               | Polarization :      | Vertical |

Test Site : 3m Chamber Temp/Humi : 23℃/59%  
 Tested by : Jack Pol/Phase : VERTICAL  
 Test Mode : 802.11ac VHT20 CH100(5500MHz) Power rating: DC 3.85V

Data: 72



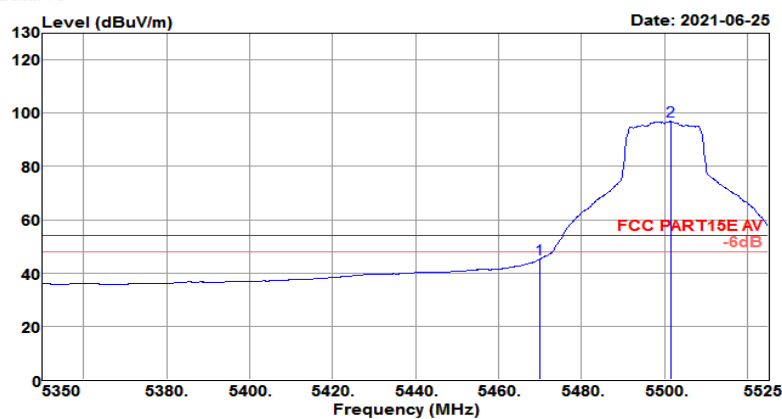
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|--------|
| 5470.000    | 54.29                    | 31.58                     | 8.86                | 34.14                  | 60.59           | 68.20                    | -7.61               | Peak   |
| 5498.750    | 103.02                   | 31.60                     | 8.79                | 34.15                  | 109.26          | 68.20                    | 41.06               | Peak   |



|                 |                                |                     |          |
|-----------------|--------------------------------|---------------------|----------|
| Test Mode :     | 802.11 ac VHT 20 CH100 5500MHz | Temperature :       | 19~23℃   |
| Test Engineer : | Jack Liu                       | Relative Humidity : | 59~62%   |
| Frequency Range | 5.35GHz~5.525GHz               | Polarization :      | Vertical |

Test Site : 3m Chamber Temp/Humi : 23℃/59%  
 Tested by : Jack Pol/Phase : VERTICAL  
 Test Mode : 802.11ac VHT20 CH100(5500MHz) Power rating: DC 3.85V

Data: 73



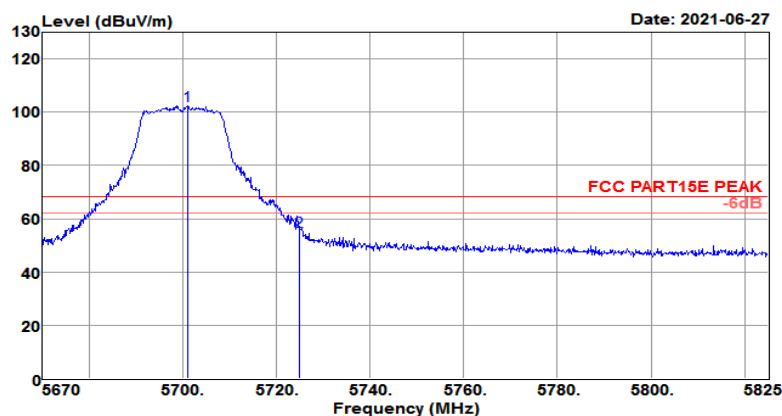
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark  |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|---------|
| 5470.000    | 38.95                    | 31.58                     | 8.86                | 34.14                  | 45.25           | 54.00                    | -8.75               | Average |
| 5501.550    | 90.70                    | 31.60                     | 8.78                | 34.15                  | 96.93           | 54.00                    | 42.93               | Average |



|                 |                                |                     |            |
|-----------------|--------------------------------|---------------------|------------|
| Test Mode :     | 802.11 ac VHT 20 CH140 5700MHz | Temperature :       | 19~23℃     |
| Test Engineer : | Jack Liu                       | Relative Humidity : | 59~62%     |
| Frequency Range | 5.67GHz~5.825GHz               | Polarization :      | Horizontal |

Test Site : 3m Chamber Temp/Humi : 23℃/59%  
 Tested by : Jack Pol/Phase : HORIZONTAL  
 Test Mode : 802.11ac VHT20 CH140(5700MHz) Power rating: DC 3.85V

Data: 77



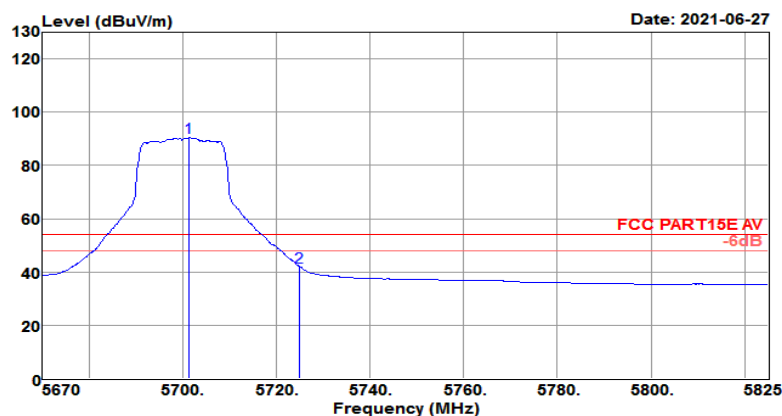
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|--------|
| 5701.000    | 96.83                    | 31.92                     | 7.94                | 34.25                  | 102.44          | 68.20                    | 34.24               | Peak   |
| 5725.000    | 49.72                    | 31.96                     | 7.80                | 34.26                  | 55.22           | 68.20                    | -12.98              | Peak   |



|                 |                                |                     |            |
|-----------------|--------------------------------|---------------------|------------|
| Test Mode :     | 802.11 ac VHT 20 CH140 5700MHz | Temperature :       | 19~23℃     |
| Test Engineer : | Jack Liu                       | Relative Humidity : | 59~62%     |
| Frequency Range | 5.67GHz~5.825GHz               | Polarization :      | Horizontal |

Test Site : 3m Chamber Temp/Humi : 23℃/59%  
 Tested by : Jack Pol/Phase : HORIZONTAL  
 Test Mode : 802.11ac VHT20 CH140(5700MHz) Power rating: DC 3.85V

Data: 78



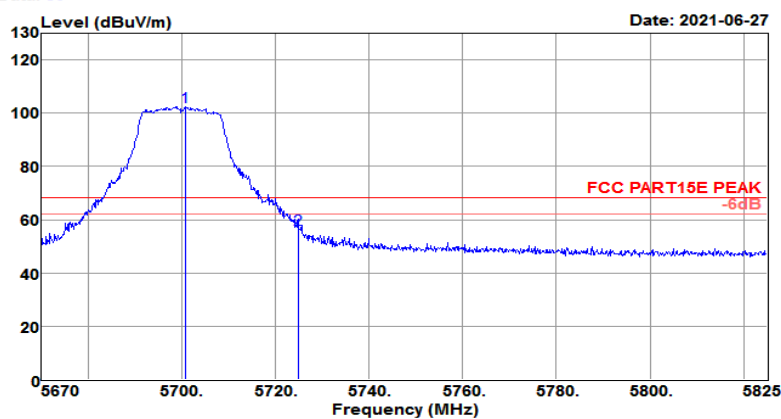
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark  |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|---------|
| 5701.310    | 84.83                    | 31.92                     | 7.94                | 34.25                  | 90.44           | 54.00                    | 36.44               | Average |
| 5725.000    | 36.47                    | 31.96                     | 7.80                | 34.26                  | 41.97           | 54.00                    | -12.03              | Average |



|                 |                                |                     |          |
|-----------------|--------------------------------|---------------------|----------|
| Test Mode :     | 802.11 ac VHT 20 CH140 5700MHz | Temperature :       | 19~23℃   |
| Test Engineer : | Jack Liu                       | Relative Humidity : | 59~62%   |
| Frequency Range | 5.67GHz~5.825GHz               | Polarization :      | Vertical |

Test Site : 3m Chamber Temp/Humi : 23℃/59%  
 Tested by : Jack Pol/Phase : VERTICAL  
 Test Mode : 802.11ac VHT20 CH140(5700MHz) Power rating: DC 3.85V

Data: 80



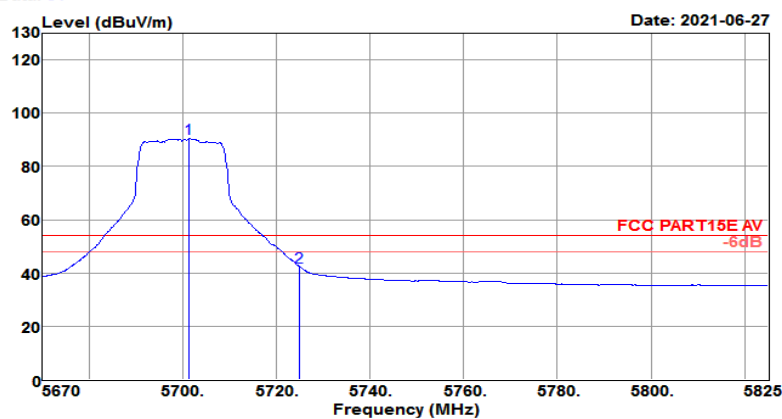
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|--------|
| 5700.845    | 96.73                    | 31.92                     | 7.94                | 34.25                  | 102.34          | 68.20                    | 34.14               | Peak   |
| 5725.000    | 50.82                    | 31.96                     | 7.80                | 34.26                  | 56.32           | 68.20                    | -11.88              | Peak   |



|                 |                                |                     |          |
|-----------------|--------------------------------|---------------------|----------|
| Test Mode :     | 802.11 ac VHT 20 CH140 5700MHz | Temperature :       | 19~23℃   |
| Test Engineer : | Jack Liu                       | Relative Humidity : | 59~62%   |
| Frequency Range | 5.67GHz~5.825GHz               | Polarization :      | Vertical |

Test Site : 3m Chamber Temp/Humi : 23℃/59%  
 Tested by : Jack Pol/Phase : VERTICAL  
 Test Mode : 802.11ac VHT20 CH140(5700MHz) Power rating: DC 3.85V

Data: 81



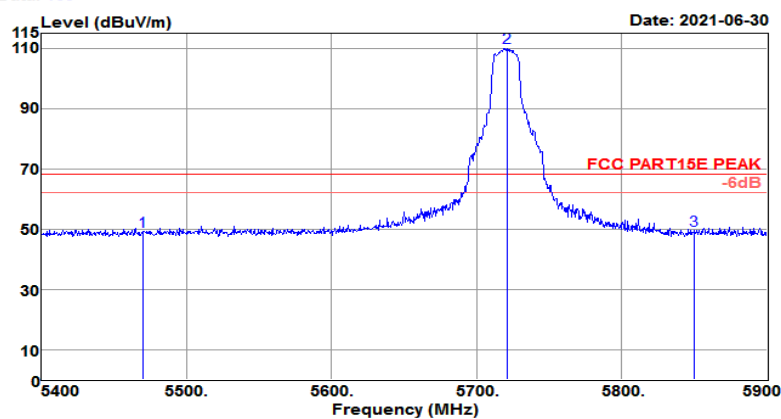
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark  |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|---------|
| 5701.465    | 84.78                    | 31.92                     | 7.94                | 34.25                  | 90.39           | 54.00                    | 36.39               | Average |
| 5725.000    | 36.76                    | 31.96                     | 7.80                | 34.26                  | 42.26           | 54.00                    | -11.74              | Average |



|                 |                                |                     |            |
|-----------------|--------------------------------|---------------------|------------|
| Test Mode :     | 802.11 ac VHT 20 CH144 5720MHz | Temperature :       | 18~21℃     |
| Test Engineer : | Jack Liu                       | Relative Humidity : | 59~63%     |
| Frequency Range | 5.4GHz~5.9GHz                  | Polarization :      | Horizontal |

Test Site : 3m Chamber Temp/Humi : 22℃/61%  
 Tested by : Jack Pol/Phase : HORIZONTAL  
 Test Mode : 802.11ac VHT20 CH144 (5720MHz) Power rating: DC 3.85V

Data: 159



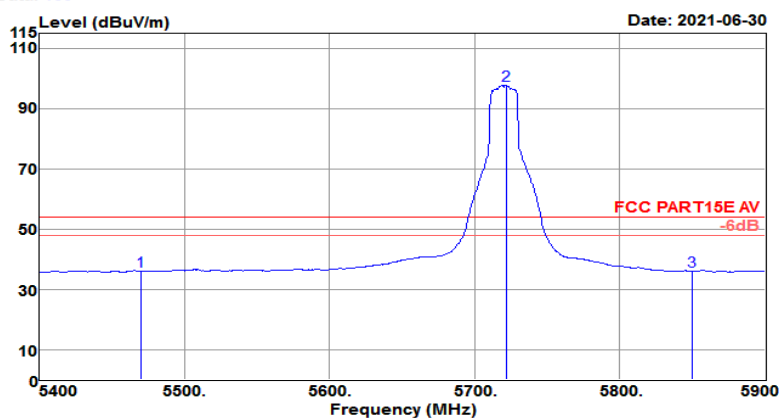
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|--------|
| 5470.000    | 42.94                    | 31.58                     | 8.86                | 34.14                  | 49.24           | 68.20                    | -18.96              | Peak   |
| 5721.000    | 104.58                   | 31.95                     | 7.82                | 34.26                  | 110.09          | 68.20                    | 41.89               | Peak   |
| 5850.000    | 44.18                    | 32.16                     | 7.46                | 34.33                  | 49.47           | 68.20                    | -18.73              | Peak   |



|                 |                                |                     |            |
|-----------------|--------------------------------|---------------------|------------|
| Test Mode :     | 802.11 ac VHT 20 CH144 5720MHz | Temperature :       | 18~21℃     |
| Test Engineer : | Jack Liu                       | Relative Humidity : | 59~63%     |
| Frequency Range | 5.4GHz~5.9GHz                  | Polarization :      | Horizontal |

Test Site : 3m Chamber Temp/Humi : 22℃/61%  
 Tested by : Jack Pol/Phase : HORIZONTAL  
 Test Mode : 802.11ac VHT20 CH144 (5720MHz) Power rating: DC 3.85V

Data: 160



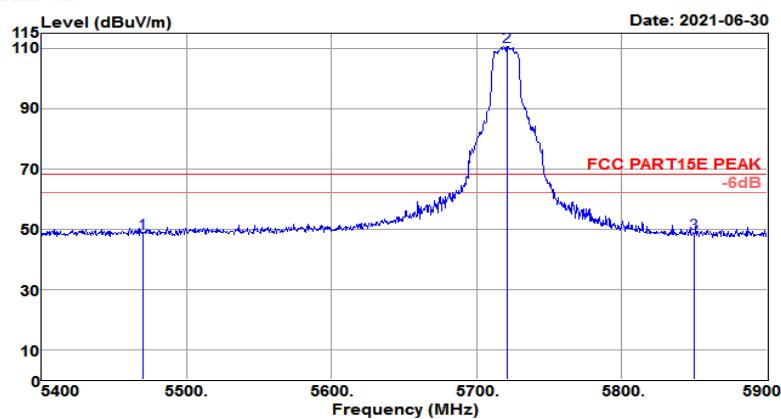
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark  |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|---------|
| 5470.000    | 29.58                    | 31.58                     | 8.86                | 34.14                  | 35.88           | 54.00                    | -18.12              | Average |
| 5721.500    | 92.35                    | 31.95                     | 7.82                | 34.26                  | 97.86           | 54.00                    | 43.86               | Average |
| 5850.000    | 30.72                    | 32.16                     | 7.46                | 34.33                  | 36.01           | 54.00                    | -17.99              | Average |



|                 |                                |                     |          |
|-----------------|--------------------------------|---------------------|----------|
| Test Mode :     | 802.11 ac VHT 20 CH144 5720MHz | Temperature :       | 18~21℃   |
| Test Engineer : | Jack Liu                       | Relative Humidity : | 59~63%   |
| Frequency Range | 5.4GHz~5.9GHz                  | Polarization :      | Vertical |

Test Site : 3m Chamber Temp/Humi : 22℃/61%  
 Tested by : Jack Pol/Phase : VERTICAL  
 Test Mode : 802.11ac VHT20 CH144 (5720MHz) Power rating: DC 3.85V

Data: 162



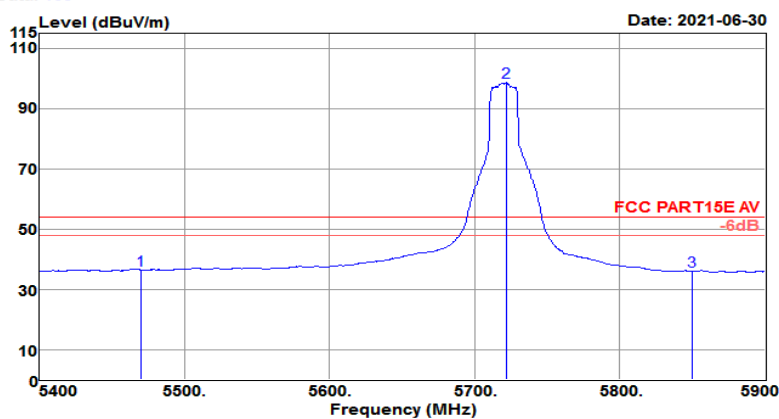
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|--------|
| 5470.000    | 42.15                    | 31.58                     | 8.86                | 34.14                  | 48.45           | 68.20                    | -19.75              | Peak   |
| 5721.000    | 105.03                   | 31.95                     | 7.82                | 34.26                  | 110.54          | 68.20                    | 42.34               | Peak   |
| 5850.000    | 43.20                    | 32.16                     | 7.46                | 34.33                  | 48.49           | 68.20                    | -19.71              | Peak   |



|                 |                                |                     |          |
|-----------------|--------------------------------|---------------------|----------|
| Test Mode :     | 802.11 ac VHT 20 CH144 5720MHz | Temperature :       | 18~21℃   |
| Test Engineer : | Jack Liu                       | Relative Humidity : | 59~63%   |
| Frequency Range | 5.4GHz~5.9GHz                  | Polarization :      | Vertical |

Test Site : 3m Chamber Temp/Humi : 22℃/61%  
 Tested by : Jack Pol/Phase : VERTICAL  
 Test Mode : 802.11ac VHT20 CH144 (5720MHz) Power rating: DC 3.85V

Data: 163

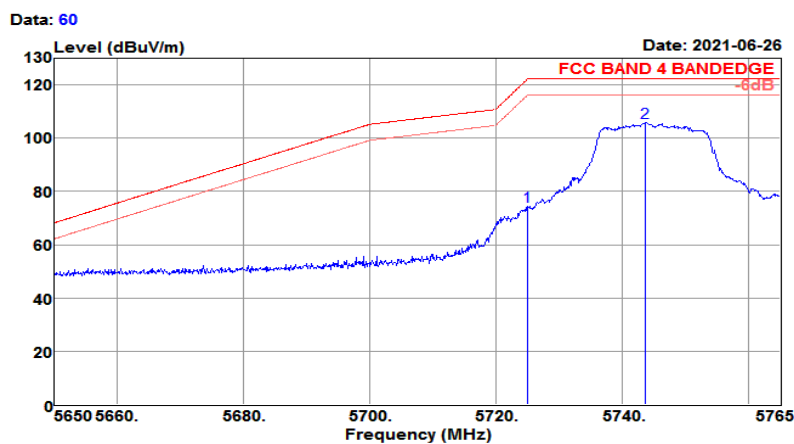


| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark  |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|---------|
| 5470.000    | 30.05                    | 31.58                     | 8.86                | 34.14                  | 36.35           | 54.00                    | -17.65              | Average |
| 5721.500    | 93.12                    | 31.95                     | 7.82                | 34.26                  | 98.63           | 54.00                    | 44.63               | Average |
| 5850.000    | 30.73                    | 32.16                     | 7.46                | 34.33                  | 36.02           | 54.00                    | -17.98              | Average |



|                 |                                |                     |            |
|-----------------|--------------------------------|---------------------|------------|
| Test Mode :     | 802.11 ac VHT 20 CH149 5745MHz | Temperature :       | 19~23℃     |
| Test Engineer : | Jack Liu                       | Relative Humidity : | 59~62%     |
| Frequency Range | 5.65GHz~5.765GHz               | Polarization :      | Horizontal |

Test Site : 3m Chamber Temp/Humi : 23℃/59%  
 Tested by : Jack Pol/Phase : HORIZONTAL  
 Test Mode : 802.11ac VHT20 CH149(5745MHz) Power rating: DC 3.85V



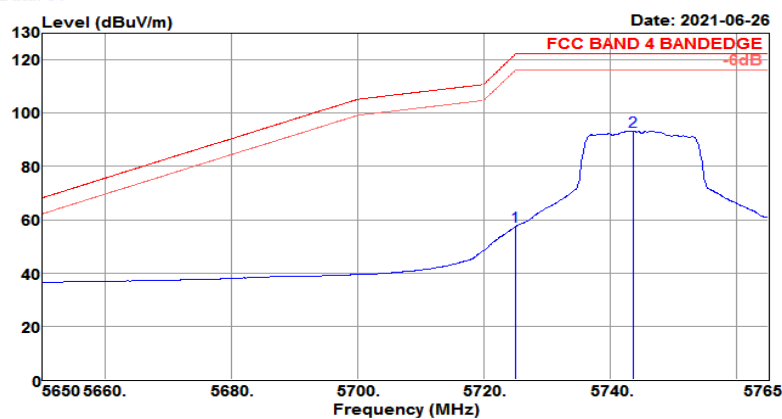
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|--------|
| 5725.000    | 68.78                    | 31.96                     | 7.80                | 34.26                  | 74.28           | 122.20                   | -47.92              | Peak   |
| 5743.725    | 100.58                   | 31.99                     | 7.68                | 34.27                  | 105.98          | 122.20                   | -16.22              | Peak   |



|                 |                                |                     |            |
|-----------------|--------------------------------|---------------------|------------|
| Test Mode :     | 802.11 ac VHT 20 CH149 5745MHz | Temperature :       | 19~23℃     |
| Test Engineer : | Jack Liu                       | Relative Humidity : | 59~62%     |
| Frequency Range | 5.65GHz~5.765GHz               | Polarization :      | Horizontal |

Test Site : 3m Chamber Temp/Humi : 23℃/59%  
 Tested by : Jack Pol/Phase : HORIZONTAL  
 Test Mode : 802.11ac VHT20 CH149(5745MHz) Power rating: DC 3.85V

Data: 61

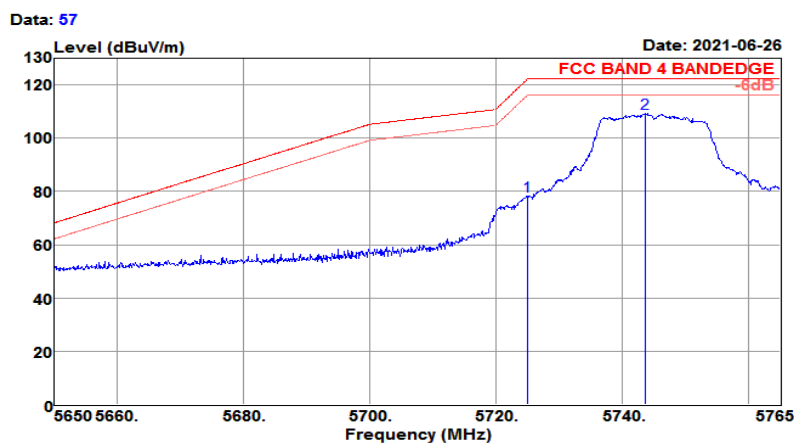


| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark  |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|---------|
| 5725.000    | 51.95                    | 31.96                     | 7.80                | 34.26                  | 57.45           | 122.20                   | -64.75              | Average |
| 5743.610    | 87.91                    | 31.99                     | 7.69                | 34.27                  | 93.32           | 122.20                   | -28.88              | Average |



|                 |                                |                     |          |
|-----------------|--------------------------------|---------------------|----------|
| Test Mode :     | 802.11 ac VHT 20 CH149 5745MHz | Temperature :       | 19~23℃   |
| Test Engineer : | Jack Liu                       | Relative Humidity : | 59~62%   |
| Frequency Range | 5.65GHz~5.765GHz               | Polarization :      | Vertical |

Test Site : 3m Chamber Temp/Humi : 23℃/59%  
 Tested by : Jack Pol/Phase : VERTICAL  
 Test Mode : 802.11ac VHT20 CH149(5745MHz) Power rating: DC 3.85V



| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|--------|
| 5725.000    | 72.57                    | 31.96                     | 7.80                | 34.26                  | 78.07           | 122.20                   | -44.13              | Peak   |
| 5743.725    | 103.77                   | 31.99                     | 7.68                | 34.27                  | 109.17          | 122.20                   | -13.03              | Peak   |