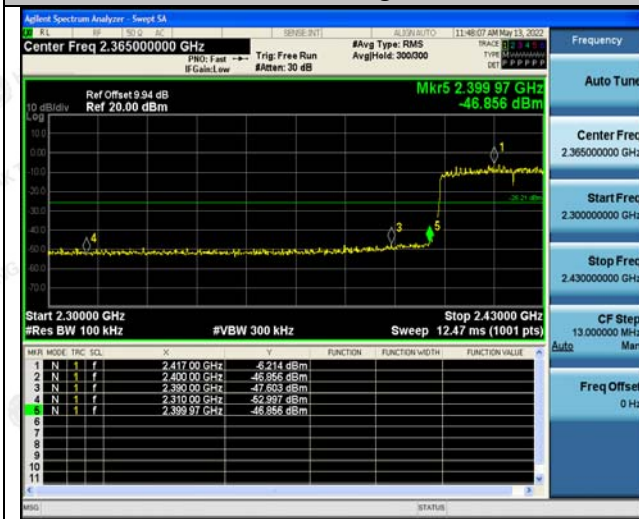
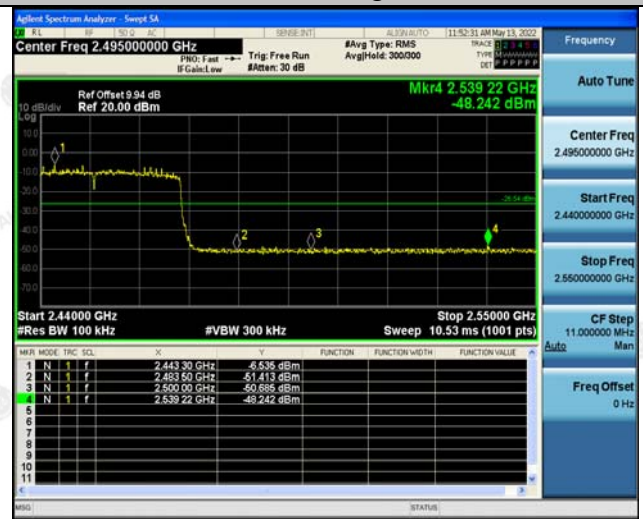




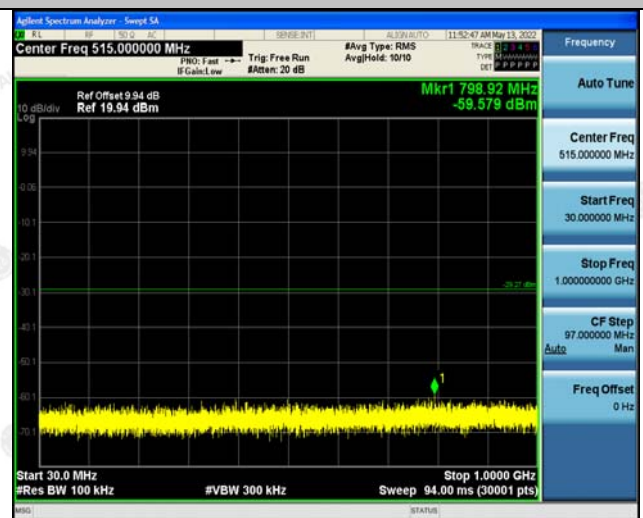
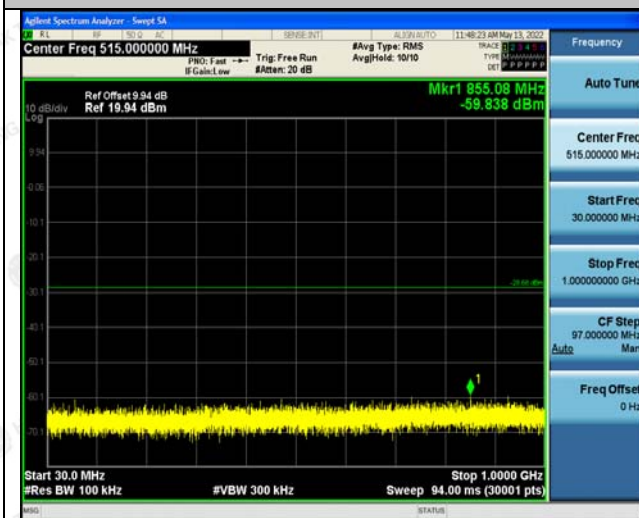
## 802.11ax (HT40) Modulation

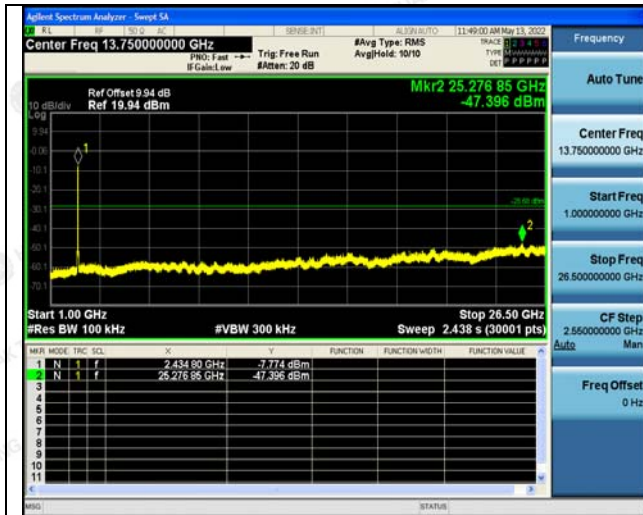
Lowest Channel  
Band EdgeHighest Channel  
Band Edge

## Spurious Emission(2422MHz)

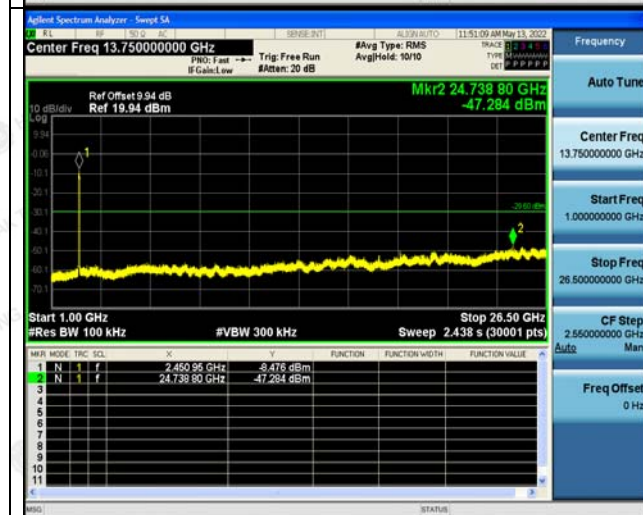
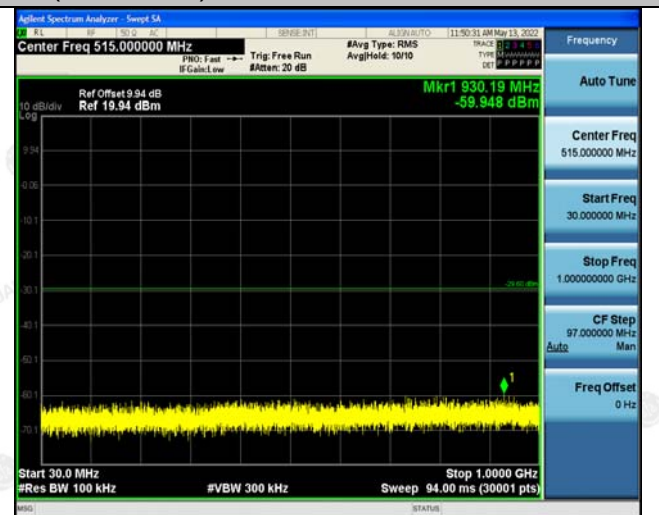


## Spurious Emission(2452MHz)

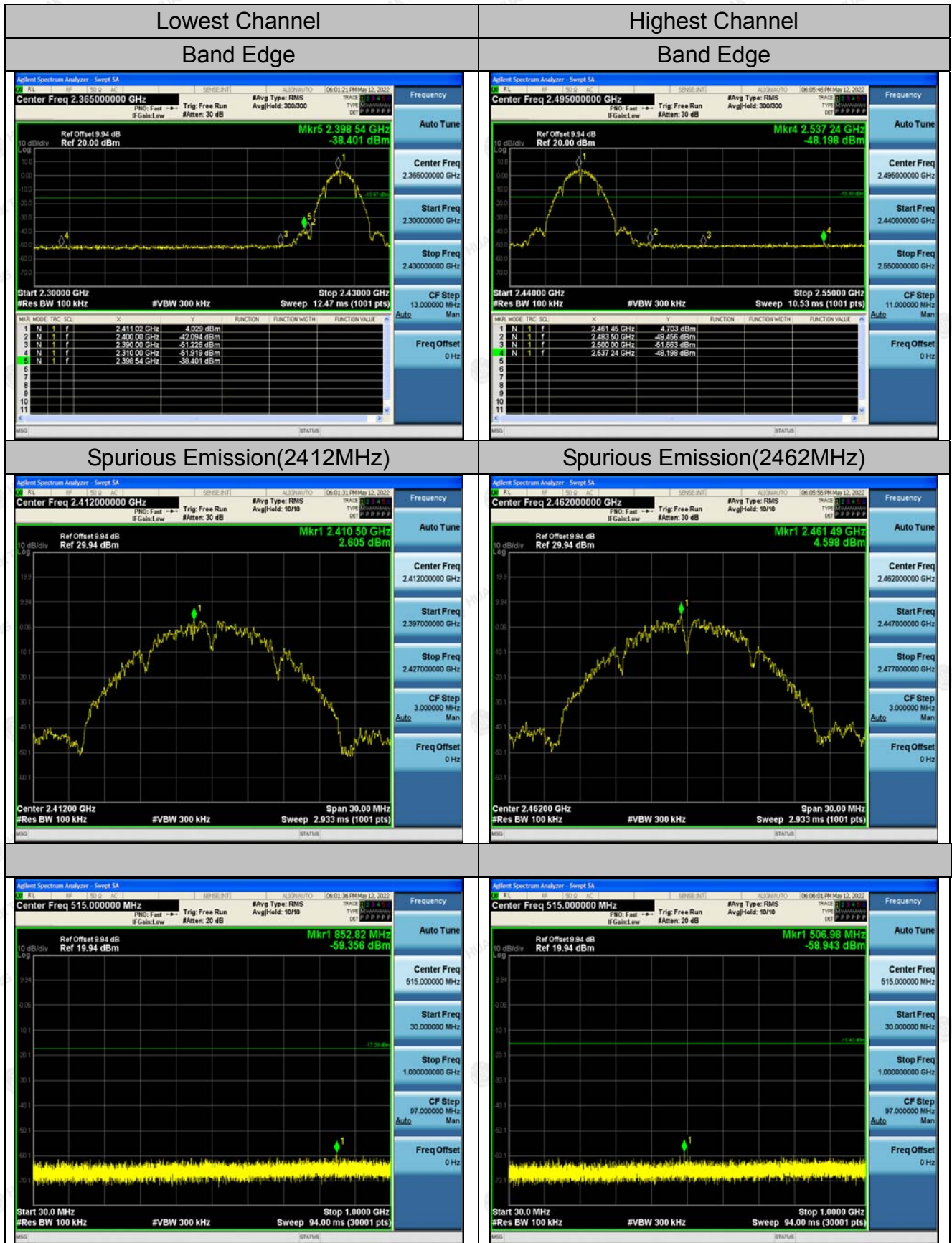




## Spurious Emission(2437MHz)



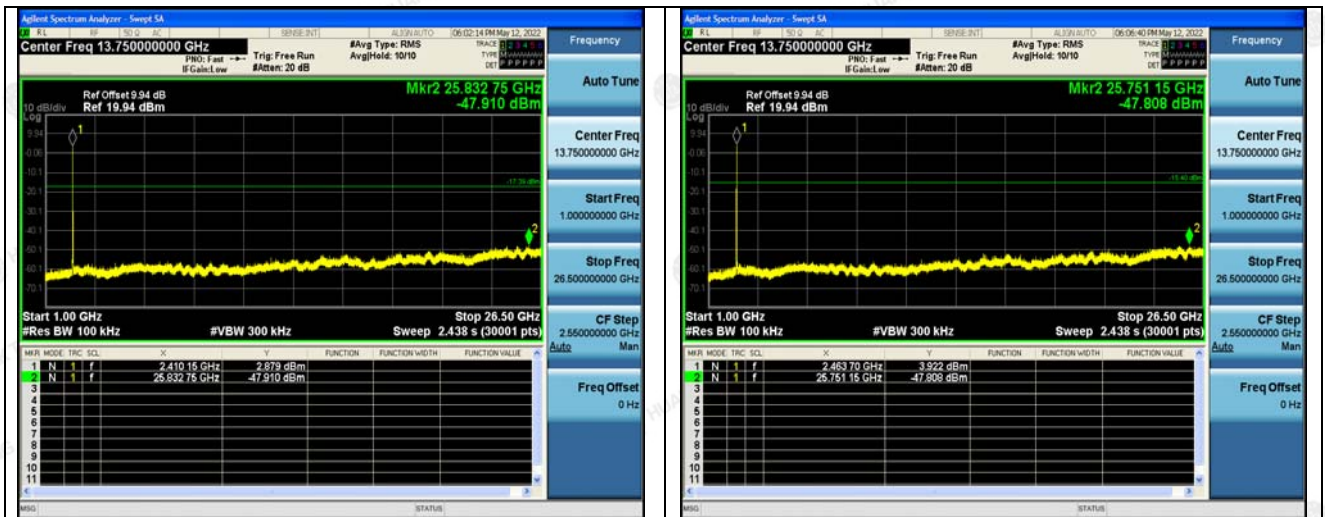


**Chain 2**  
**802.11b Modulation**

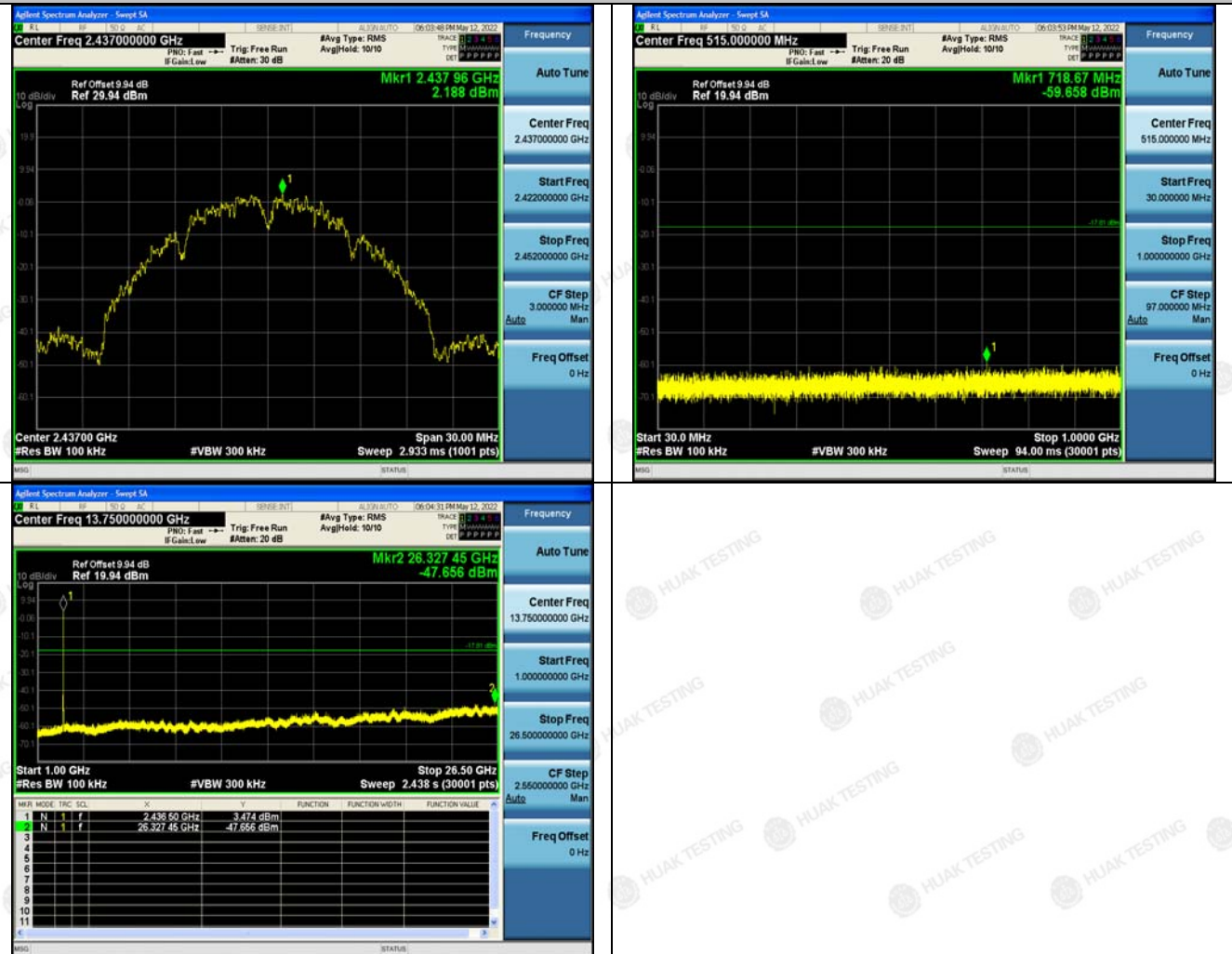
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Spurious Emission(2437MHz)



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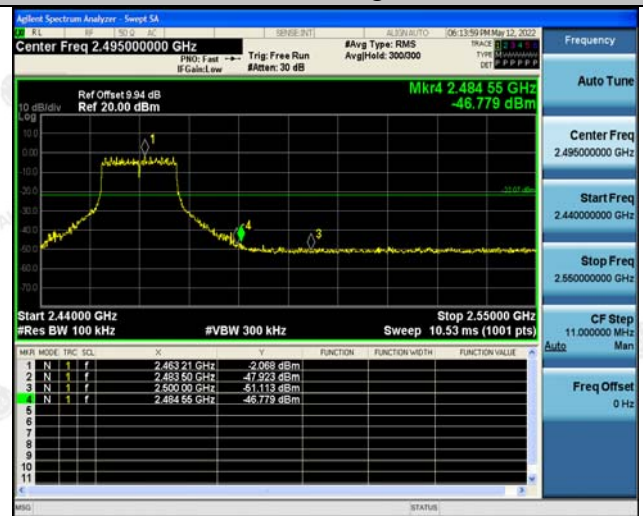
TEL : +86-755 2302 9901    FAX : +86-755 2302 9901    E-mail : [service@cer-mark.com](mailto:service@cer-mark.com)

Add: 1-2F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China





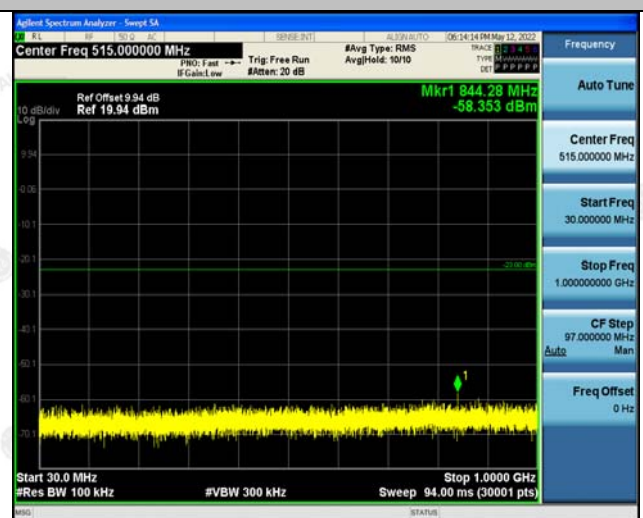
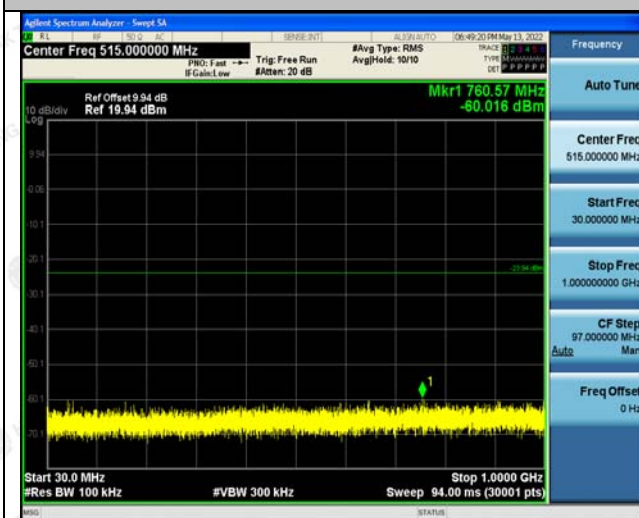
## 802.11g Modulation

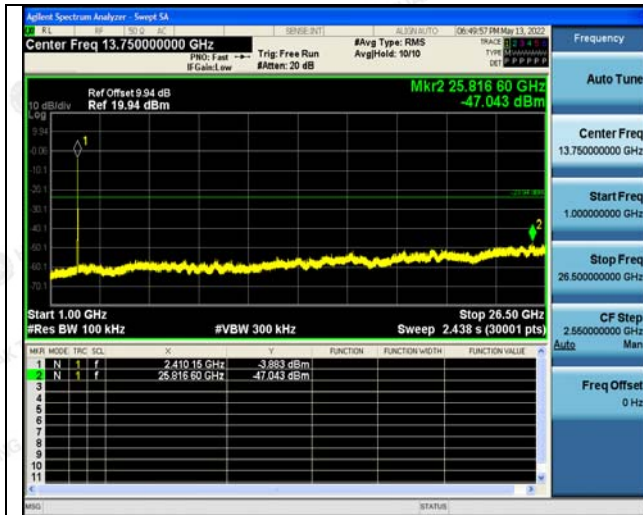
Lowest Channel  
Band EdgeHighest Channel  
Band Edge

## Spurious Emission(2412MHz)

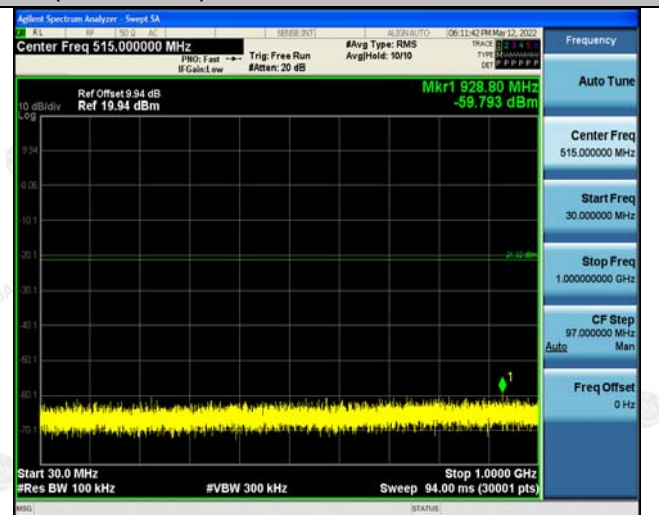


## Spurious Emission(2462MHz)





### Spurious Emission(2437MHz)





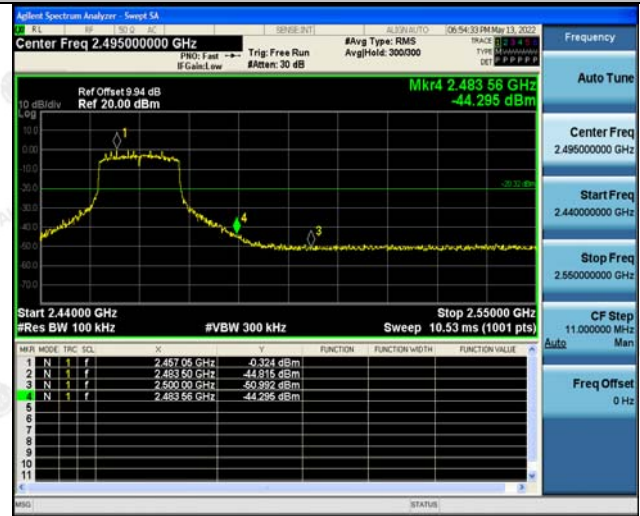


802.11n (HT20) Modulation

Lowest Channel  
Band Edge



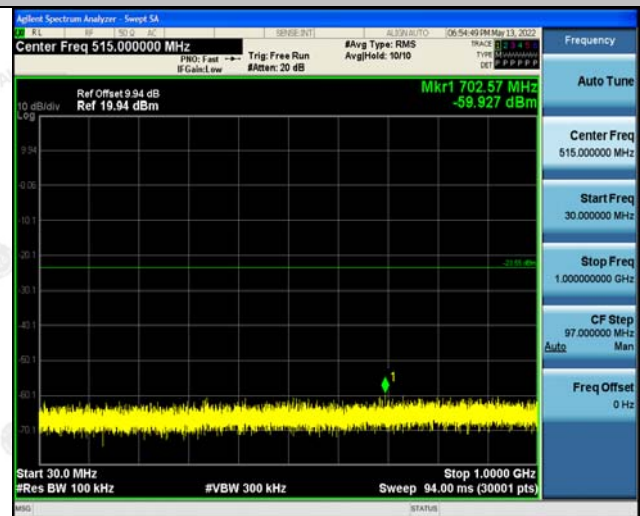
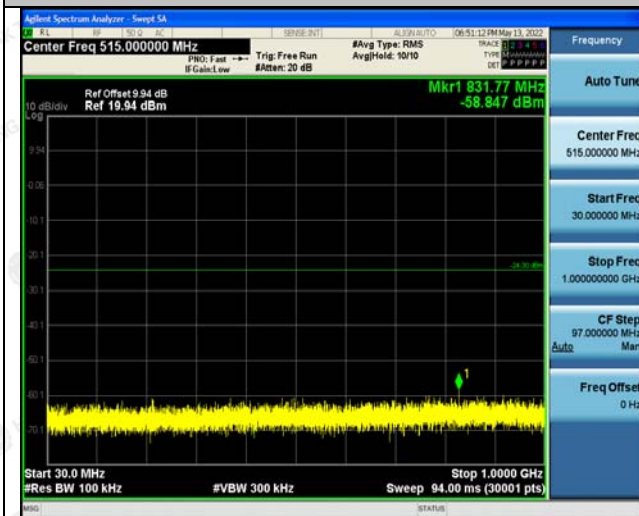
Highest Channel  
Band Edge

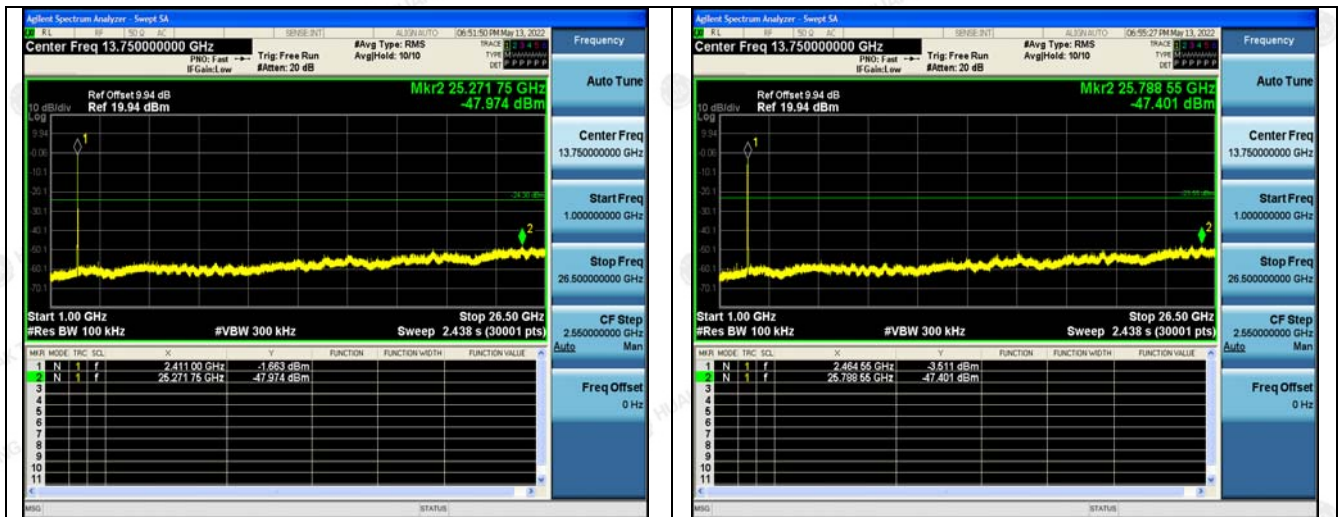


Spurious Emission(2412MHz)

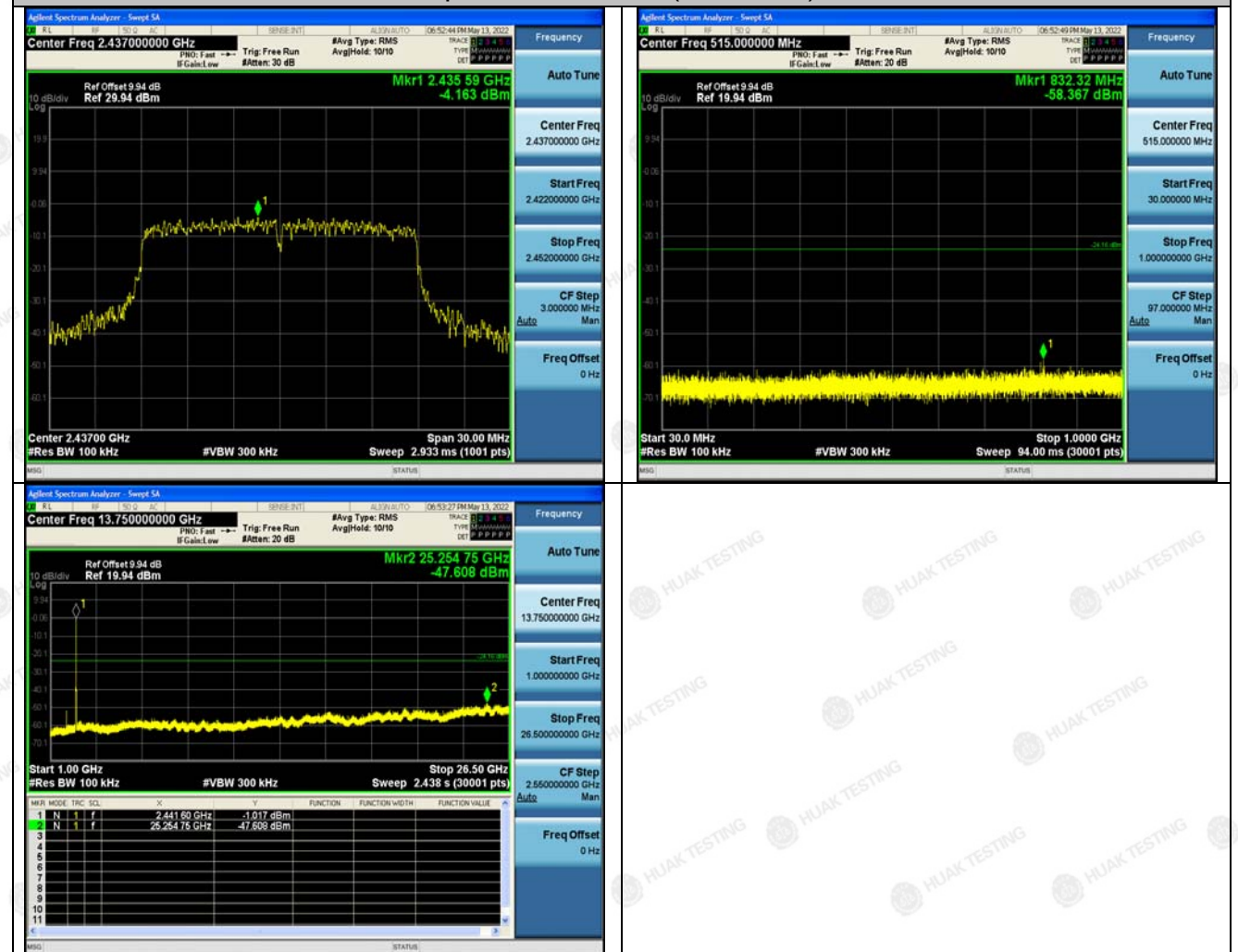


Spurious Emission(2462MHz)





## Spurious Emission(2437MHz)







802.11n (HT40) Modulation

Lowest Channel  
Band Edge



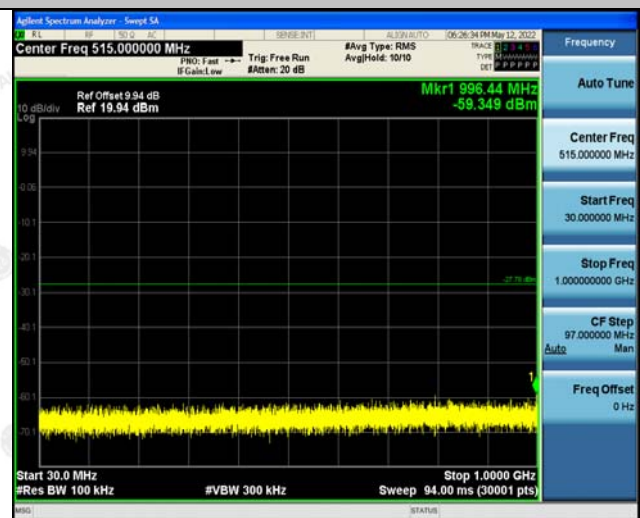
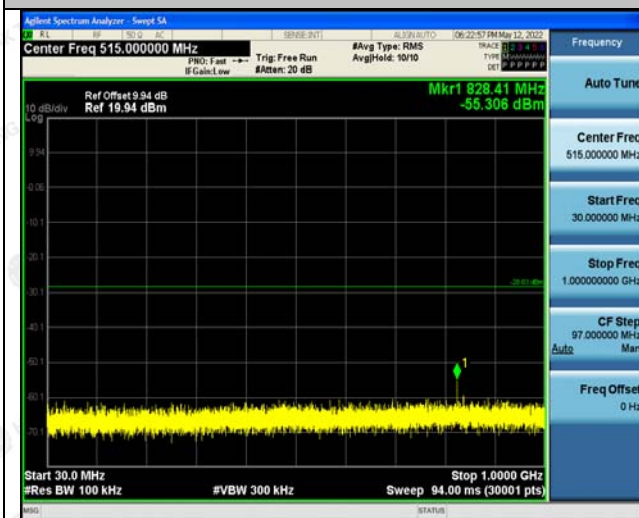
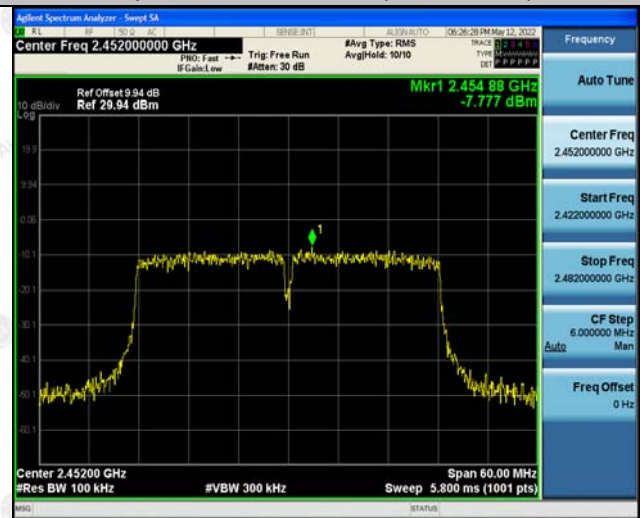
Highest Channel  
Band Edge

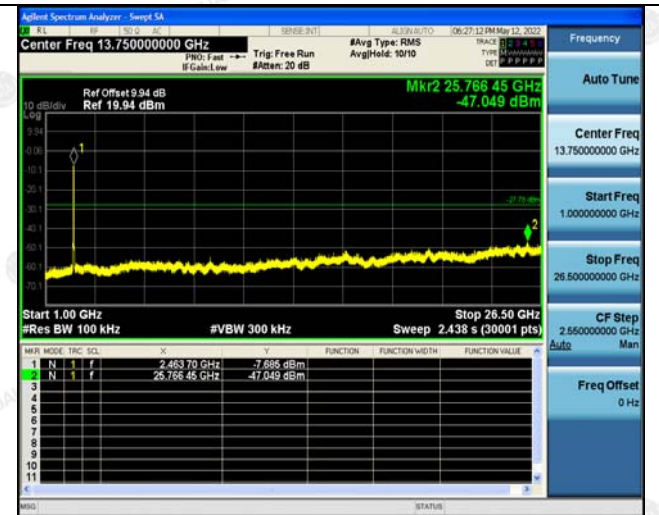
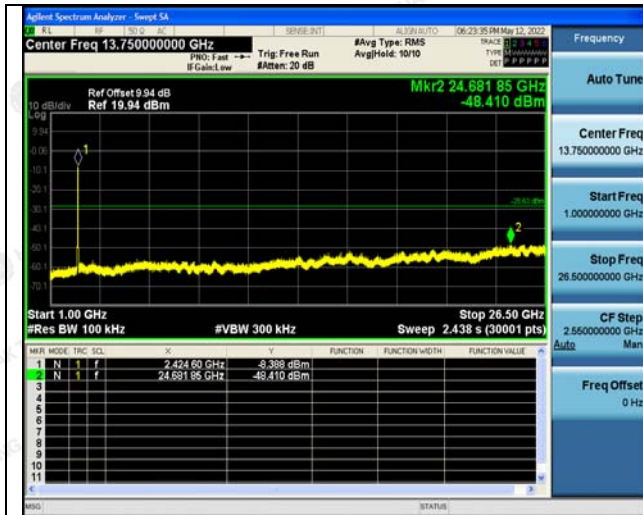


Spurious Emission(2422MHz)

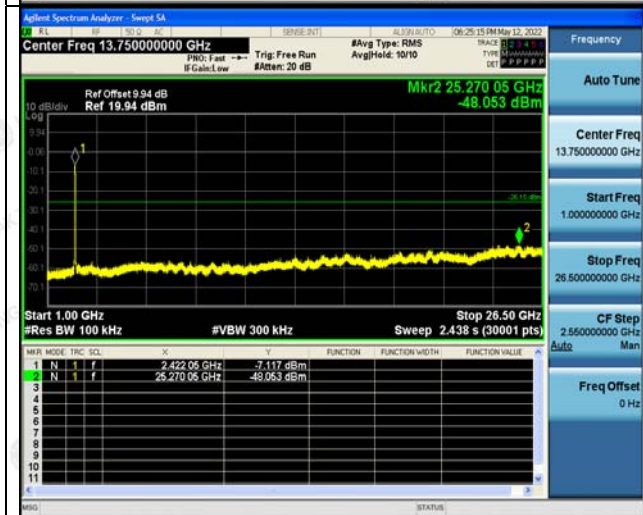
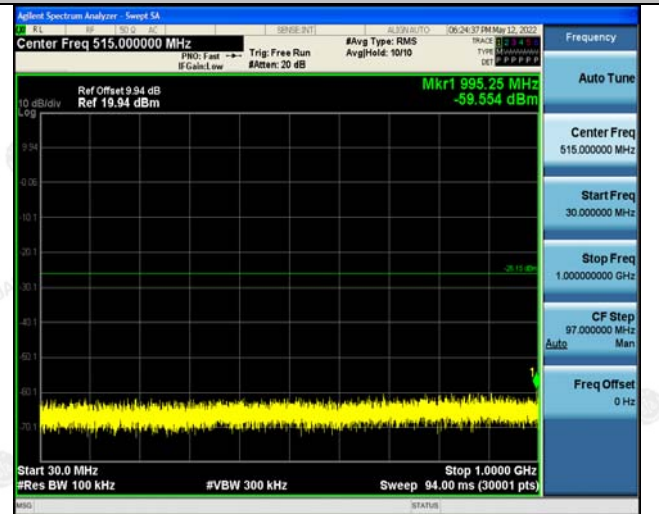


Spurious Emission(2452MHz)





### Spurious Emission(2437MHz)

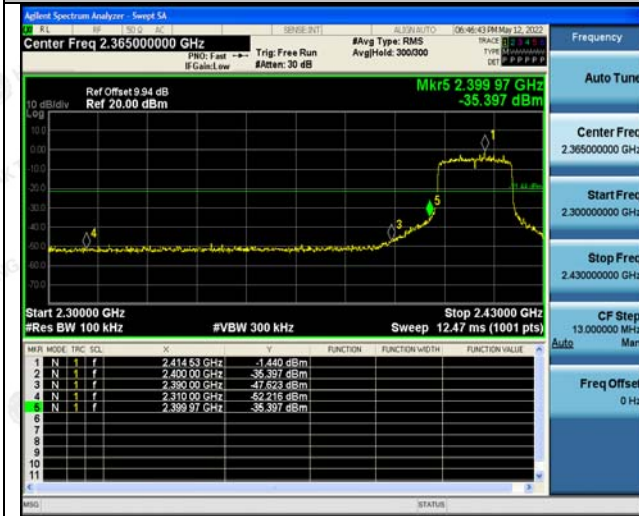




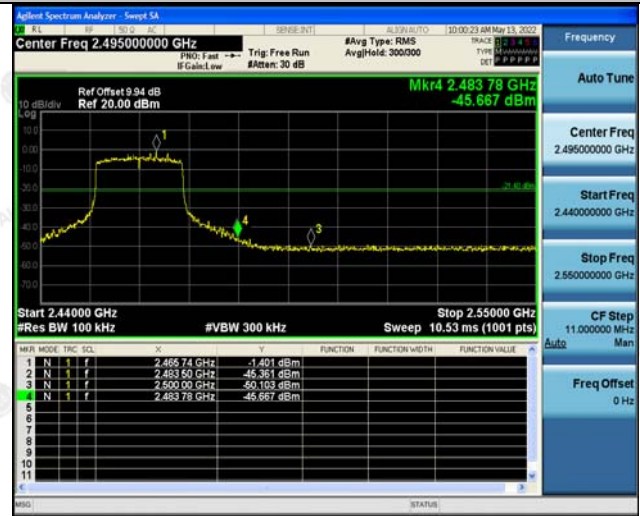


802.11ax (HT20) Modulation

Lowest Channel  
Band Edge



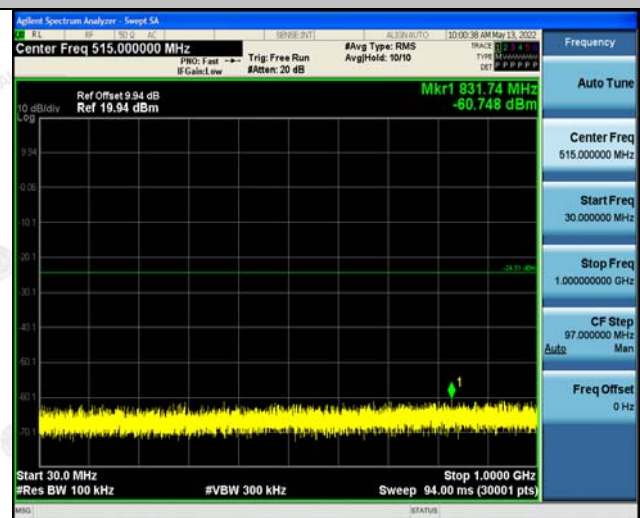
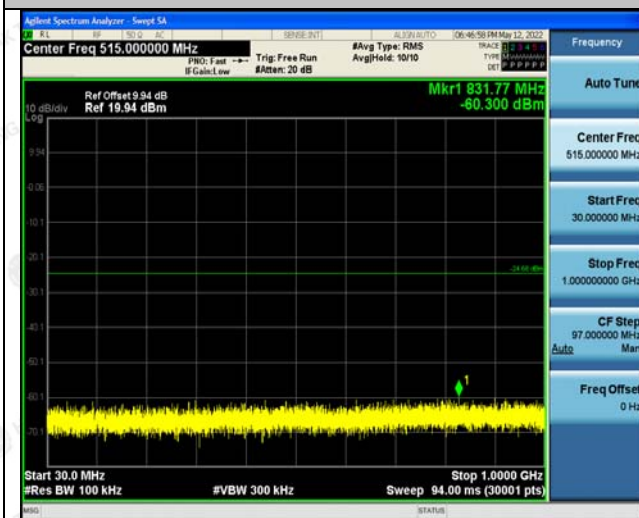
Highest Channel  
Band Edge

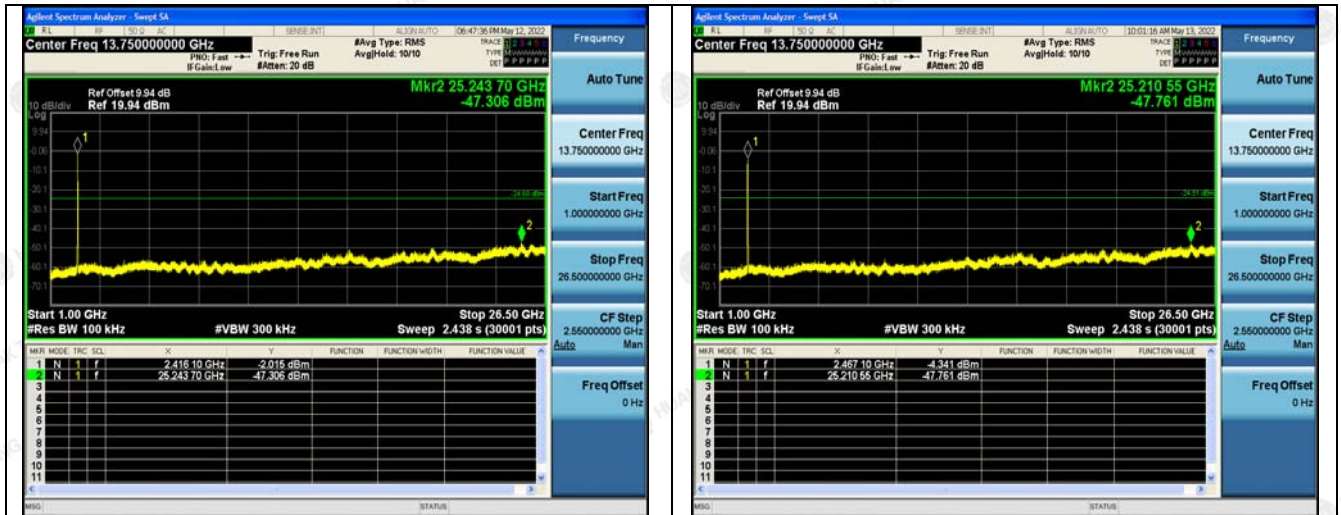


Spurious Emission(2412MHz)

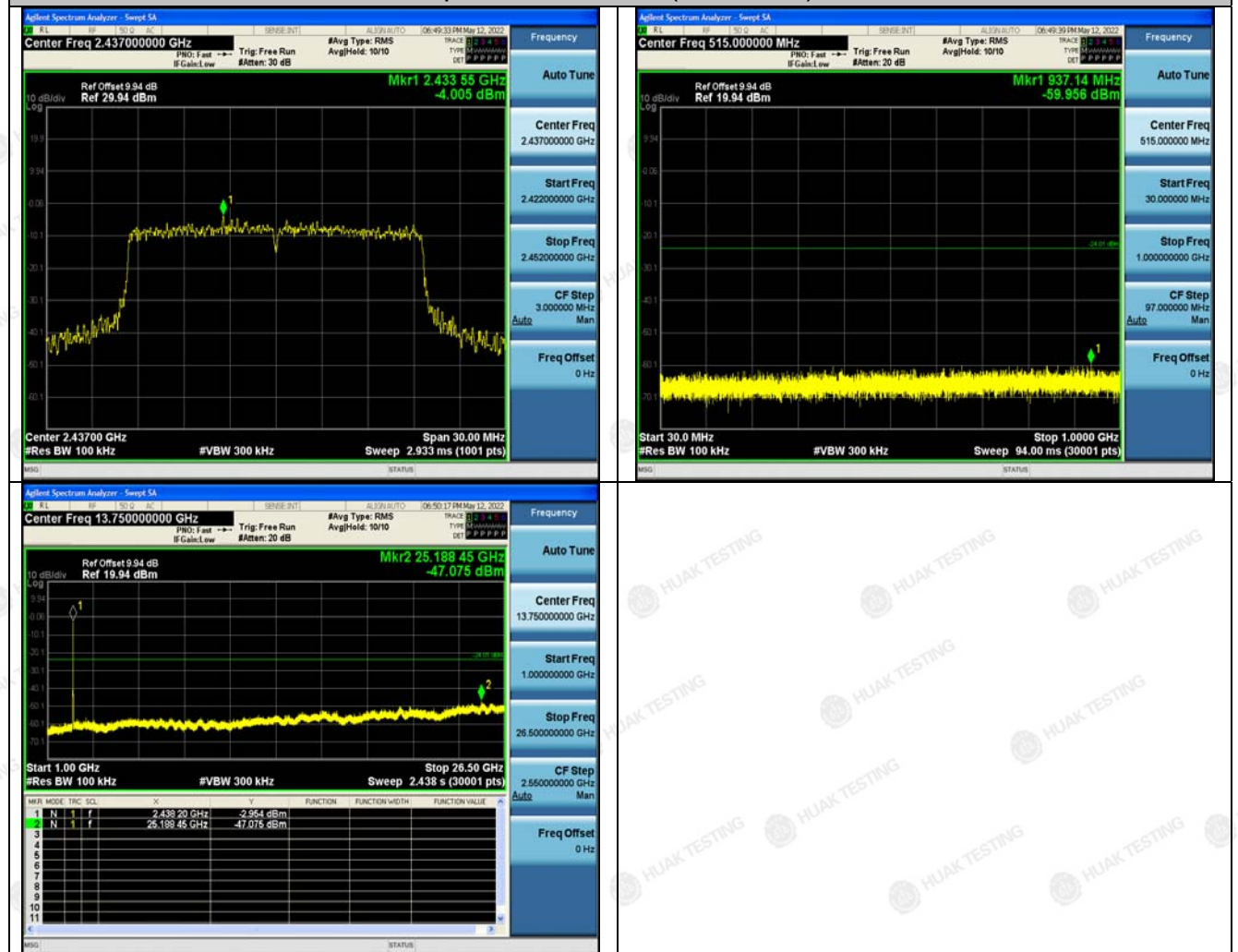


Spurious Emission(2462MHz)





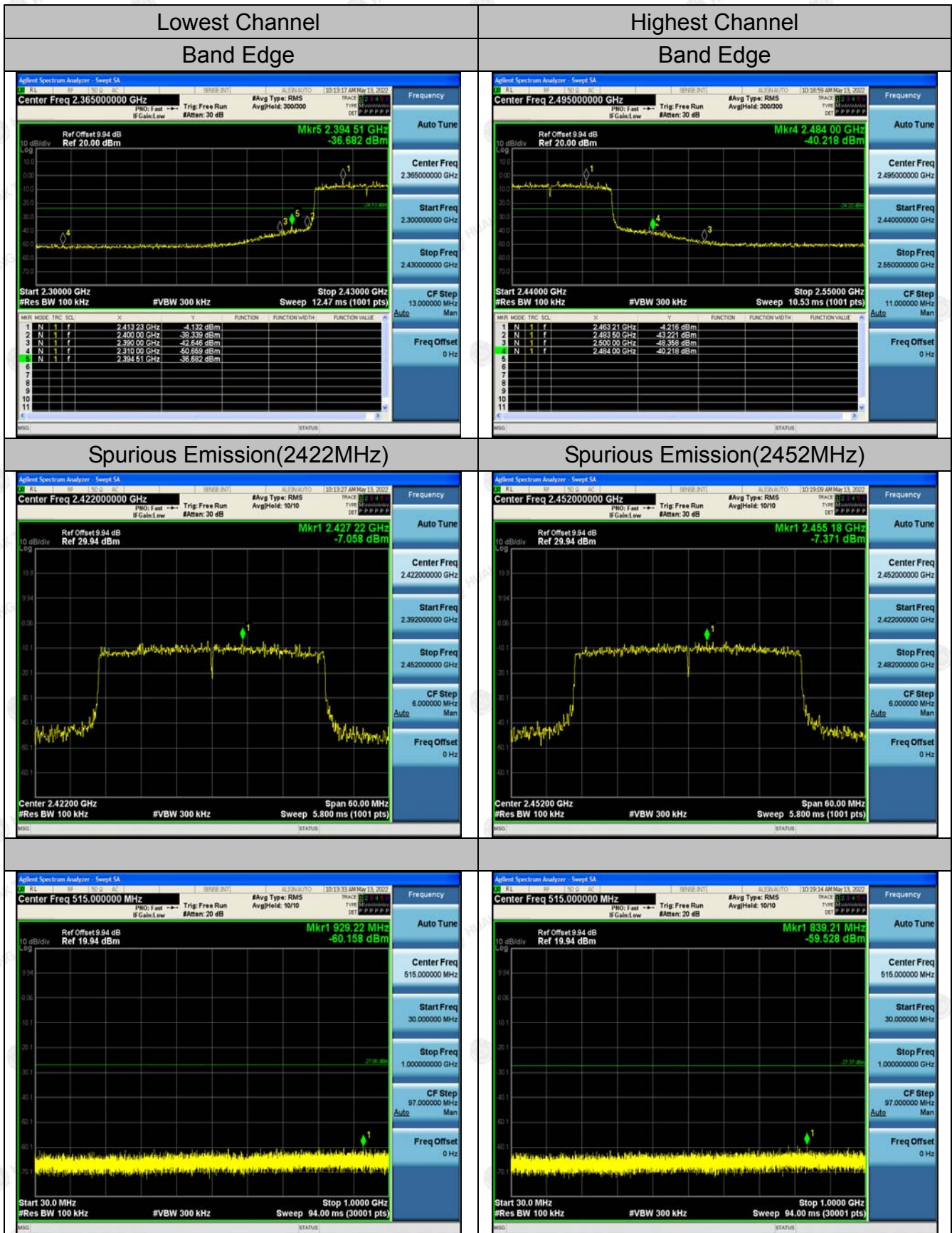
## Spurious Emission(2437MHz)







802.11ax (HT40) Modulation



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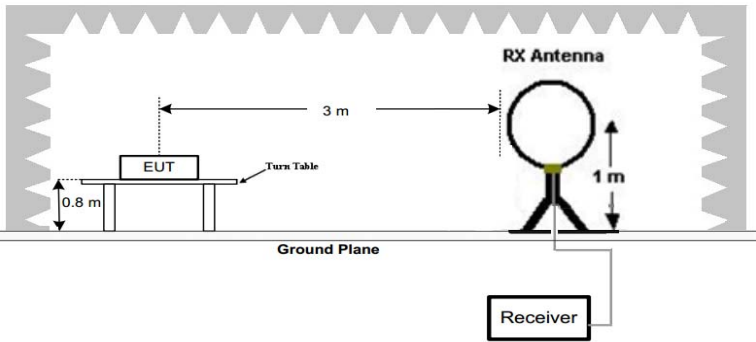


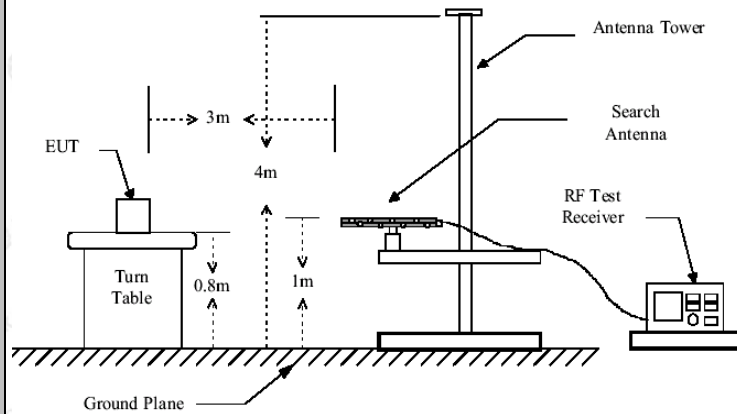




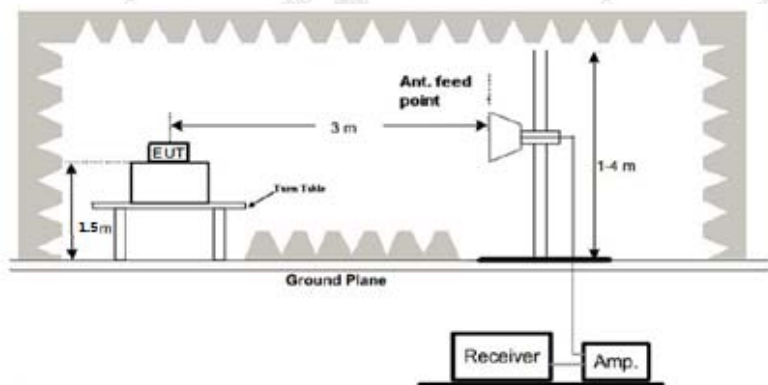
## 4.6. RADIATED SPURIOUS EMISSION MEASUREMENT

### 4.6.1. Test Specification

|                       |                                                                                      |            |                                   |                               |                               |
|-----------------------|--------------------------------------------------------------------------------------|------------|-----------------------------------|-------------------------------|-------------------------------|
| Test Requirement:     | FCC Part15 C Section 15.209                                                          |            |                                   |                               |                               |
| Test Method:          | ANSI C63.10: 2013                                                                    |            |                                   |                               |                               |
| Frequency Range:      | 9 kHz to 25 GHz                                                                      |            |                                   |                               |                               |
| Measurement Distance: | 3 m                                                                                  |            |                                   |                               |                               |
| Antenna Polarization: | Horizontal & Vertical                                                                |            |                                   |                               |                               |
| Operation mode:       | Transmitting mode with modulation                                                    |            |                                   |                               |                               |
| Receiver Setup:       | Frequency                                                                            | Detector   | RBW                               | VBW                           | Remark                        |
|                       | 9kHz- 150kHz                                                                         | Quasi-peak | 200Hz                             | 1kHz                          | Quasi-peak Value              |
|                       | 150kHz- 30MHz                                                                        | Quasi-peak | 9kHz                              | 30kHz                         | Quasi-peak Value              |
|                       | 30MHz-1GHz                                                                           | Quasi-peak | 120KHz                            | 300KHz                        | Quasi-peak Value              |
|                       | Above 1GHz                                                                           | Peak       | 1MHz                              | 3MHz                          | Peak Value                    |
| Peak                  |                                                                                      | 1MHz       | 10Hz                              | Average Value                 |                               |
| Limit:                | Frequency                                                                            |            | Field Strength (microvolts/meter) |                               | Measurement Distance (meters) |
|                       | 0.009-0.490                                                                          |            | 2400/F(KHz)                       |                               | 300                           |
|                       | 0.490-1.705                                                                          |            | 24000/F(KHz)                      |                               | 30                            |
|                       | 1.705-30                                                                             |            | 30                                |                               | 30                            |
|                       | 30-88                                                                                |            | 100                               |                               | 3                             |
|                       | 88-216                                                                               |            | 150                               |                               | 3                             |
|                       | 216-960                                                                              |            | 200                               |                               | 3                             |
|                       | Above 960                                                                            |            | 500                               |                               | 3                             |
|                       | Frequency                                                                            |            | Field Strength (microvolts/meter) | Measurement Distance (meters) | Detector                      |
|                       | Above 1GHz                                                                           |            | 500                               | 3                             | Average                       |
|                       |                                                                                      | 5000       | 3                                 | Peak                          |                               |
| Test setup:           | For radiated emissions below 30MHz                                                   |            |                                   |                               |                               |
|                       |  |            |                                   |                               |                               |
|                       | 30MHz to 1GHz                                                                        |            |                                   |                               |                               |



Above 1GHz

**Test Procedure:**

1. For the radiated emission test below 1GHz:  
The EUT was placed on a turntable with 0.8 meter above ground. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high PASS filter are used for the test in order to get better signal level.
2. For the radiated emission test above 1GHz:  
Place the measurement antenna on a turntable with 1.5 meter above ground, which is away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal.





|               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|               | <p>The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.</p> <p>3. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level</p> <p>4. For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.</p> <p>5. Use the following spectrum analyzer settings:</p> <p>(1) Span shall wide enough to fully capture the emission being measured;</p> <p>(2) Set RBW=100 kHz for <math>f &lt; 1</math> GHz; VBW <math>\geq</math> RBW; Sweep = auto; Detector function = peak; Trace = max hold;</p> <p>(3) Set RBW = 1 MHz, VBW= 3MHz for <math>f \geq 1</math> GHz for peak measurement.</p> <p>6. For average measurement: VBW = 10 Hz, when duty cycle is no less than 98 percent. VBW <math>\geq 1/T</math>, 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.</p> |
| Test results: | PASS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |



## 4.6.2. Test Instruments

| Radiated Emission Test Site (966) |              |                 |               |                  |                 |
|-----------------------------------|--------------|-----------------|---------------|------------------|-----------------|
| Name of Equipment                 | Manufacturer | Model           | Serial Number | Calibration Date | Calibration Due |
| Receiver                          | R&S          | ESR-7           | HKE-010       | Feb. 18, 2022    | Feb. 17, 2023   |
| Spectrum analyzer                 | Agilent      | N9020A          | HKE-048       | Feb. 18, 2022    | Feb. 17, 2023   |
| Preamplifier                      | EMCI         | EMC051845 SE    | HKE-015       | Feb. 18, 2022    | Feb. 17, 2023   |
| Preamplifier                      | Agilent      | 83051A          | HKE-016       | Feb. 18, 2022    | Feb. 17, 2023   |
| Loop antenna                      | Schwarzbeck  | FMZB 1519 B     | HKE-014       | Feb. 18, 2022    | Feb. 17, 2023   |
| Broadband antenna                 | Schwarzbeck  | VULB 9163       | HKE-012       | Feb. 18, 2022    | Feb. 17, 2023   |
| Horn antenna                      | Schwarzbeck  | 9120D           | HKE-013       | Feb. 18, 2022    | Feb. 17, 2023   |
| Antenna Mast                      | Keleto       | CC-A-4M         | N/A           | N/A              | N/A             |
| Position controller               | Taiwan MF    | MF7802          | HKE-011       | Feb. 18, 2022    | Feb. 17, 2023   |
| Radiated test software            | Tonscend     | TS+ Rev 2.5.0.0 | HKE-082       | N/A              | N/A             |
| RF cable (9KHz-1GHz)              | Times        | 381806-001      | N/A           | N/A              | N/A             |
| RF cable                          | Times        | 1-40G           | HKE-034       | Feb. 18, 2022    | Feb. 17, 2023   |
| Horn Antenna                      | Schwarzbeck  | BBHA 9170       | HKE-017       | Feb. 18, 2022    | Feb. 17, 2023   |

**Note:** The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



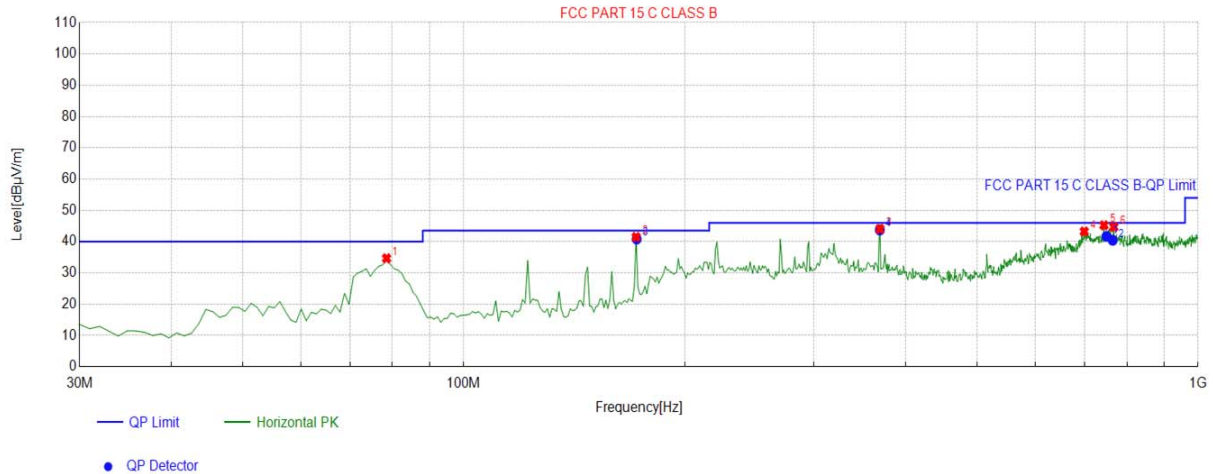


#### 4.6.3. Test Data

Please refer to following diagram for individual  
Below 1GHz

All the test modes completed for test. only the worst result of reported as below:

##### Horizontal



##### Suspected List

| NO. | Freq. [MHz] | Factor [dB] | Reading [dBμV/m] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
|-----|-------------|-------------|------------------|----------------|----------------|-------------|-------------|-----------|------------|
| 1   | 78.5485     | -19.21      | 53.85            | 34.64          | 40.00          | 5.36        | 100         | 286       | Horizontal |
| 2   | 171.7618    | -18.33      | 59.78            | 41.45          | 43.50          | 2.05        | 100         | 88        | Horizontal |
| 3   | 368.8689    | -11.04      | 55.11            | 44.07          | 46.00          | 1.93        | 100         | 359       | Horizontal |
| 4   | 699.9700    | -5.06       | 48.30            | 43.24          | 46.00          | 2.76        | 100         | 313       | Horizontal |
| 5   | 744.6346    | -3.94       | 49.15            | 45.21          | 46.00          | 0.79        | 100         | 321       | Horizontal |
| 6   | 767.9379    | -3.30       | 47.97            | 44.67          | 46.00          | 1.33        | 100         | 321       | Horizontal |

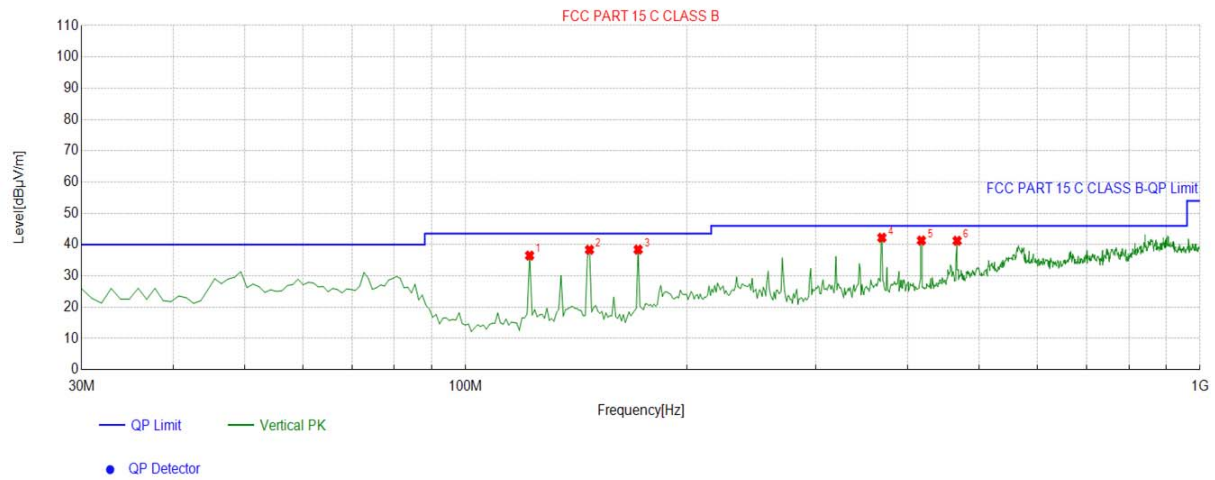
##### Final Data List

| NO. | Freq. [MHz] | Factor [dB] | QP Reading [dBμV/m] | QP Value [dBμV/m] | QP Limit [dBμV/m] | QP Margin [dB] | Height [cm] | Angle [°] | Polarity   |
|-----|-------------|-------------|---------------------|-------------------|-------------------|----------------|-------------|-----------|------------|
| 1   | 750.2813    | -3.94       | 45.58               | 41.64             | 46.00             | 4.36           | 180         | 314.5     | Horizontal |
| 2   | 765.1595    | -3.30       | 43.72               | 40.42             | 46.00             | 5.58           | 120         | 318.1     | Horizontal |
| 3   | 172.0502    | -18.34      | 59.14               | 40.80             | 43.50             | 2.70           | 180         | 91.6      | Horizontal |
| 4   | 368.7302    | -11.03      | 54.73               | 43.70             | 46.00             | 2.30           | 190         | 9.7       | Horizontal |

Remark: Factor = Cable loss + Antenna factor – Preamplifier; Level = Reading + Factor; Margin = Limit – Level



## Vertical



| Suspected List |             |             |                  |                |                |             |             |           |          |
|----------------|-------------|-------------|------------------|----------------|----------------|-------------|-------------|-----------|----------|
| NO.            | Freq. [MHz] | Factor [dB] | Reading [dBμV/m] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1              | 122.2422    | -17.43      | 53.92            | 36.49          | 43.50          | 7.01        | 100         | 102       | Vertical |
| 2              | 147.4875    | -20.01      | 58.35            | 38.34          | 43.50          | 5.16        | 100         | 189       | Vertical |
| 3              | 171.7618    | -18.33      | 56.74            | 38.41          | 43.50          | 5.09        | 100         | 332       | Vertical |
| 4              | 368.8689    | -11.04      | 53.24            | 42.20          | 46.00          | 3.80        | 100         | 339       | Vertical |
| 5              | 417.4174    | -10.08      | 51.39            | 41.31          | 46.00          | 4.69        | 100         | 51        | Vertical |
| 6              | 466.9369    | -8.44       | 49.65            | 41.21          | 46.00          | 4.79        | 100         | 39        | Vertical |

Remark: Factor = Cable loss + Antenna factor – Preamplifier; Level = Reading + Factor; Margin = Limit – Level

## Harmonics and Spurious Emissions

## Frequency Range (9 kHz-30MHz)

| Frequency (MHz) | Level@3m (dBμV/m) | Limit@3m (dBμV/m) |
|-----------------|-------------------|-------------------|
| --              | --                | --                |
| --              | --                | --                |
| --              | --                | --                |
| --              | --                | --                |

**Note:** 1. Emission Level=Reading+ Cable loss-Antenna factor-Amp factor

2. The emission levels are 20 dB below the limit value, which are not reported. It is deemed to comply with the requirement



**Above 1GHz****RADIATED EMISSION TEST**

LOW CH1 (802.11b Mode)/2412

Horizontal:

| Frequency | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)     | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 4824      | 58.52         | -3.64  | 54.88          | 74       | -19.12 | peak          |
| 4824      | 46.01         | -3.64  | 42.37          | 54       | -11.63 | AVG           |
| 7236      | 54.34         | -0.95  | 53.39          | 74       | -20.61 | peak          |
| 7236      | 41.95         | -0.95  | 41             | 54       | -13    | AVG           |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

| Frequency | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)     | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 4824      | 59.48         | -3.64  | 55.84          | 74       | -18.16 | peak          |
| 4824      | 43.22         | -3.64  | 39.58          | 54       | -14.42 | AVG           |
| 7236      | 55.26         | -0.95  | 54.31          | 74       | -19.69 | peak          |
| 7236      | 42.31         | -0.82  | 41.49          | 54       | -12.51 | AVG           |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



MID CH6 (802.11b Mode)/2437

Horizontal:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 4874                                                          | 57.87         | -3.51  | 54.36          | 74       | -19.64 | peak          |
| 4874                                                          | 43.59         | -3.51  | 40.08          | 54       | -13.92 | AVG           |
| 7311                                                          | 56.42         | -0.82  | 55.6           | 74       | -18.4  | peak          |
| 7311                                                          | 40.68         | -0.82  | 39.86          | 54       | -14.14 | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 4874                                                          | 56.90         | -3.51  | 53.39          | 74       | -20.61 | peak          |
| 4874                                                          | 45.41         | -3.51  | 41.9           | 54       | -12.1  | AVG           |
| 7311                                                          | 54.51         | -0.82  | 53.69          | 74       | -20.31 | peak          |
| 7311                                                          | 39.92         | -0.82  | 39.1           | 54       | -14.9  | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |





HIGH CH11 (802.11b Mode)/2462

Horizontal:

| Frequency<br>(MHz)                                            | Meter Reading<br>(dBμV) | Factor<br>(dB) | Emission Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Detector<br>Type |
|---------------------------------------------------------------|-------------------------|----------------|----------------------------|--------------------|----------------|------------------|
| 4924                                                          | 57.76                   | -3.43          | 54.33                      | 74                 | -19.67         | peak             |
| 4924                                                          | 42.4                    | -3.43          | 38.97                      | 54                 | -15.03         | AVG              |
| 7386                                                          | 53.27                   | -0.75          | 52.52                      | 74                 | -21.48         | peak             |
| 7386                                                          | 41.85                   | -0.75          | 41.1                       | 54                 | -12.9          | AVG              |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |                         |                |                            |                    |                |                  |

Vertical:

| Frequency<br>(MHz)                                            | Meter Reading<br>(dBμV) | Factor<br>(dB) | Emission Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Detector<br>Type |
|---------------------------------------------------------------|-------------------------|----------------|----------------------------|--------------------|----------------|------------------|
| 4924                                                          | 55.64                   | -3.43          | 52.21                      | 74                 | -21.79         | peak             |
| 4924                                                          | 43.92                   | -3.43          | 40.49                      | 54                 | -13.51         | AVG              |
| 7386                                                          | 55.21                   | -0.75          | 54.46                      | 74                 | -19.54         | peak             |
| 7386                                                          | 38.74                   | -0.75          | 37.99                      | 54                 | -16.01         | AVG              |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |                         |                |                            |                    |                |                  |

Remark:

(1) Measuring frequencies from 1 GHz to the 25 GHz.

(2) "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.

(3) \* denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.

(4) The emissions are attenuated more than 20dB below the permissible limits are not record in the report.

(5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.

(6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dBuV/m(PK Value) &lt;93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) &lt;54 dBuV/m(AV Limit), the Average Detected not need to completed.

(7) All modes of operation were investigated and the worst-case emissions of ANT.1 are reported.



## LOW CH1 (802.11g Mode)/2412

Horizontal:

| Frequency | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)     | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 4824      | 57.45         | -3.64  | 53.81          | 74       | -20.19 | peak          |
| 4824      | 46.28         | -3.64  | 42.64          | 54       | -11.36 | AVG           |
| 7236      | 51.42         | -0.95  | 50.47          | 74       | -23.53 | peak          |
| 7236      | 42.03         | -0.95  | 41.08          | 54       | -12.92 | AVG           |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

| Frequency | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)     | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 4824      | 56.59         | -3.64  | 52.95          | 74       | -21.05 | peak          |
| 4824      | 43.6          | -3.64  | 39.96          | 54       | -14.04 | AVG           |
| 7236      | 56.5          | -0.95  | 55.55          | 74       | -18.45 | peak          |
| 7236      | 45.17         | -0.95  | 44.22          | 54       | -9.78  | AVG           |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.





MID CH6 (802.11g Mode)/2437

Horizontal:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 4874                                                          | 57.74         | -3.51  | 54.23          | 74       | -19.77 | peak          |
| 4874                                                          | 42.93         | -3.51  | 39.42          | 54       | -14.58 | AVG           |
| 7311                                                          | 54.94         | -0.82  | 54.12          | 74       | -19.88 | peak          |
| 7311                                                          | 40.52         | -0.82  | 39.7           | 54       | -14.3  | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 4874                                                          | 55.14         | -3.51  | 51.63          | 74       | -22.37 | peak          |
| 4874                                                          | 44.91         | -3.51  | 41.4           | 54       | -12.6  | AVG           |
| 7311                                                          | 53.81         | -0.82  | 52.99          | 74       | -21.01 | peak          |
| 7311                                                          | 43.14         | -0.82  | 42.32          | 54       | -11.68 | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |



HIGH CH11 (802.11g Mode)/2462

Horizontal:

| Frequency<br>(MHz)                                            | Meter Reading<br>(dBμV) | Factor<br>(dB) | Emission Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Detector<br>Type |
|---------------------------------------------------------------|-------------------------|----------------|----------------------------|--------------------|----------------|------------------|
| 4924                                                          | 58.18                   | -3.43          | 54.75                      | 74                 | -19.25         | peak             |
| 4924                                                          | 43.43                   | -3.43          | 40                         | 54                 | -14            | AVG              |
| 7386                                                          | 55.05                   | -0.75          | 54.3                       | 74                 | -19.7          | peak             |
| 7386                                                          | 40.27                   | -0.75          | 39.52                      | 54                 | -14.48         | AVG              |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |                         |                |                            |                    |                |                  |

Vertical:

| Frequency<br>(MHz)                                            | Meter Reading<br>(dBμV) | Factor<br>(dB) | Emission Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Detector<br>Type |
|---------------------------------------------------------------|-------------------------|----------------|----------------------------|--------------------|----------------|------------------|
| 4924                                                          | 56.93                   | -3.43          | 53.5                       | 74                 | -20.5          | peak             |
| 4924                                                          | 45.92                   | -3.43          | 42.49                      | 54                 | -11.51         | AVG              |
| 7386                                                          | 52.84                   | -0.75          | 52.09                      | 74                 | -21.91         | peak             |
| 7386                                                          | 40.69                   | -0.75          | 39.94                      | 54                 | -14.06         | AVG              |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |                         |                |                            |                    |                |                  |

Remark:

- (1) Measuring frequencies from 1 GHz to the 25 GHz.
- (2) "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) \* denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (4) The emissions are attenuated more than 20dB below the permissible limits are not record in the report
- (5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.
- (6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed.
- (7) All modes of operation were investigated and the worst-case emissions of ANT.1 are reported.





LOW CH1 (802.11n/HT20 Mode)/2412

Horizontal:

| Frequency<br>(MHz)                                            | Meter Reading<br>(dBμV) | Factor<br>(dB) | Emission Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Detector<br>Type |
|---------------------------------------------------------------|-------------------------|----------------|----------------------------|--------------------|----------------|------------------|
| 4824                                                          | 56.28                   | -3.64          | 52.64                      | 74                 | -21.36         | peak             |
| 4824                                                          | 44.3                    | -3.64          | 40.66                      | 54                 | -13.34         | AVG              |
| 7236                                                          | 54.57                   | -0.95          | 53.62                      | 74                 | -20.38         | peak             |
| 7236                                                          | 40.95                   | -0.95          | 40                         | 54                 | -14            | AVG              |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |                         |                |                            |                    |                |                  |

Vertical:

| Frequency<br>(MHz)                                            | Meter Reading<br>(dBμV) | Factor<br>(dB) | Emission Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Detector<br>Type |
|---------------------------------------------------------------|-------------------------|----------------|----------------------------|--------------------|----------------|------------------|
| 4824                                                          | 57.09                   | -3.64          | 53.45                      | 74                 | -20.55         | peak             |
| 4824                                                          | 45.09                   | -3.64          | 41.45                      | 54                 | -12.55         | AVG              |
| 7236                                                          | 56.08                   | -0.95          | 55.13                      | 74                 | -18.87         | peak             |
| 7236                                                          | 40.96                   | -0.95          | 40.01                      | 54                 | -13.99         | AVG              |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |                         |                |                            |                    |                |                  |



MID CH6 (802.11n/HT20 Mode)/2437

Horizontal:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 4874.00                                                       | 56.29         | -3.51  | 52.78          | 74.00    | -21.22 | peak          |
| 4874.00                                                       | 45.22         | -3.51  | 41.71          | 54.00    | -12.29 | AVG           |
| 7311.00                                                       | 54.14         | -0.82  | 53.32          | 74.00    | -20.68 | peak          |
| 7311.00                                                       | 41.83         | -0.82  | 41.01          | 54.00    | -12.99 | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 4874.00                                                       | 56.13         | -3.51  | 52.62          | 74.00    | -21.38 | peak          |
| 4874.00                                                       | 44.37         | -3.51  | 40.86          | 54.00    | -13.14 | AVG           |
| 7311.00                                                       | 52.85         | -0.82  | 52.03          | 74.00    | -21.97 | peak          |
| 7311.00                                                       | 41.83         | -0.82  | 41.01          | 54.00    | -12.99 | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |



HIGH CH11 (802.11n/HT20 Mode)/2462

Horizontal:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 4924                                                          | 55.49         | -3.43  | 52.06          | 74       | -21.94 | peak          |
| 4924                                                          | 43.58         | -3.43  | 40.15          | 54       | -13.85 | AVG           |
| 7386                                                          | 53.99         | -0.75  | 53.24          | 74       | -20.76 | peak          |
| 7386                                                          | 40.78         | -0.75  | 40.03          | 54       | -13.97 | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 4924                                                          | 55.78         | -3.43  | 52.35          | 74       | -21.65 | peak          |
| 4924                                                          | 41.82         | -3.43  | 38.39          | 54       | -15.61 | AVG           |
| 7386                                                          | 53.53         | -0.75  | 52.78          | 74       | -21.22 | peak          |
| 7386                                                          | 40.54         | -0.75  | 39.79          | 54       | -14.21 | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |





LOW CH3 (802.11n/HT40 Mode)/2422

Horizontal:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 4844                                                          | 57.48         | -3.63  | 53.85          | 74       | -20.15 | peak          |
| 4844                                                          | 41.80         | -3.63  | 38.17          | 54       | -15.83 | AVG           |
| 7266                                                          | 52.34         | -0.94  | 51.4           | 74       | -22.6  | peak          |
| 7266                                                          | 44.01         | -0.94  | 43.07          | 54       | -10.93 | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 4844                                                          | 57.55         | -3.63  | 53.92          | 74       | -20.08 | peak          |
| 4844                                                          | 43.73         | -3.63  | 40.1           | 54       | -13.9  | AVG           |
| 7266                                                          | 51.65         | -0.94  | 50.71          | 74       | -23.29 | peak          |
| 7266                                                          | 39.31         | -0.94  | 38.37          | 54       | -15.63 | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |



MID CH6 (802.11n/HT40 Mode)/2437

Horizontal:

| Frequency | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)     | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 4874      | 55.02         | -3.51  | 51.51          | 74       | -22.49 | peak          |
| 4874      | 43.86         | -3.51  | 40.35          | 54       | -13.65 | AVG           |
| 7311      | 51.3          | -0.82  | 50.48          | 74       | -23.52 | peak          |
| 7311      | 41.73         | -0.82  | 40.91          | 54       | -13.09 | AVG           |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

| Frequency | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)     | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 4874      | 57.55         | -3.51  | 54.04          | 74       | -19.96 | peak          |
| 4874      | 43.99         | -3.51  | 40.48          | 54       | -13.52 | AVG           |
| 7311      | 54.22         | -0.82  | 53.4           | 74       | -20.6  | peak          |
| 7311      | 39.25         | -0.82  | 38.43          | 54       | -15.57 | AVG           |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



HIGH CH9 (802.11n/HT40 Mode)/2452

Horizontal:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 4904                                                          | 61.56         | -3.43  | 58.13          | 74       | -15.87 | peak          |
| 4904                                                          | 45.65         | -3.43  | 42.22          | 54       | -11.78 | AVG           |
| 7356                                                          | 55.06         | -0.75  | 54.31          | 74       | -19.69 | peak          |
| 7356                                                          | 38.13         | -0.75  | 37.38          | 54       | -16.62 | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 4904                                                          | 55.86         | -3.43  | 52.43          | 74       | -21.57 | peak          |
| 4904                                                          | 41.39         | -3.43  | 37.96          | 54       | -16.04 | AVG           |
| 7356                                                          | 54.68         | -0.75  | 53.93          | 74       | -20.07 | peak          |
| 7356                                                          | 40.14         | -0.75  | 39.39          | 54       | -14.61 | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Remark:

- (1) Measuring frequencies from 1 GHz to the 25 GHz.
- (2) "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) \* denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (4) The emissions are attenuated more than 20dB below the permissible limits are not record in the report.
- (5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.
- (6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed.
- (7) All modes of operation were investigated and the worst-case emissions of MIMO are reported.





## LOW CH1 (802.11ax/HT20 Mode)/2412

Horizontal:

| Frequency<br>(MHz)                                            | Meter Reading<br>(dBμV) | Factor<br>(dB) | Emission Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Detector<br>Type |
|---------------------------------------------------------------|-------------------------|----------------|----------------------------|--------------------|----------------|------------------|
| 4824                                                          | 57.84                   | -3.64          | 54.2                       | 74                 | -19.8          | peak             |
| 4824                                                          | 41.76                   | -3.64          | 38.12                      | 54                 | -15.88         | AVG              |
| 7236                                                          | 55.64                   | -0.95          | 54.69                      | 74                 | -19.31         | peak             |
| 7236                                                          | 40.14                   | -0.95          | 39.19                      | 54                 | -14.81         | AVG              |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |                         |                |                            |                    |                |                  |

Vertical:

| Frequency<br>(MHz)                                            | Meter Reading<br>(dBμV) | Factor<br>(dB) | Emission Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Detector<br>Type |
|---------------------------------------------------------------|-------------------------|----------------|----------------------------|--------------------|----------------|------------------|
| 4824                                                          | 57.44                   | -3.64          | 53.8                       | 74                 | -20.2          | peak             |
| 4824                                                          | 40.63                   | -3.64          | 36.99                      | 54                 | -17.01         | AVG              |
| 7236                                                          | 55.62                   | -0.95          | 54.67                      | 74                 | -19.33         | peak             |
| 7236                                                          | 40.77                   | -0.95          | 39.82                      | 54                 | -14.18         | AVG              |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |                         |                |                            |                    |                |                  |



MID CH6 (802.11ax/HT20 Mode)/2437

Horizontal:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 4874.00                                                       | 56.63         | -3.51  | 53.12          | 74.00    | -20.88 | peak          |
| 4874.00                                                       | 43.63         | -3.51  | 40.12          | 54.00    | -13.88 | AVG           |
| 7311.00                                                       | 53.57         | -0.82  | 52.75          | 74.00    | -21.25 | peak          |
| 7311.00                                                       | 42.43         | -0.82  | 41.61          | 54.00    | -12.39 | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 4874.00                                                       | 58.31         | -3.51  | 54.80          | 74.00    | -19.20 | peak          |
| 4874.00                                                       | 43.73         | -3.51  | 40.22          | 54.00    | -13.78 | AVG           |
| 7311.00                                                       | 53.50         | -0.82  | 52.68          | 74.00    | -21.32 | peak          |
| 7311.00                                                       | 38.88         | -0.82  | 38.06          | 54.00    | -15.94 | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |



HIGH CH11 (802.11ax/HT20 Mode)/2462

Horizontal:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 4924                                                          | 60.03         | -3.43  | 56.6           | 74       | -17.4  | peak          |
| 4924                                                          | 42.93         | -3.43  | 39.5           | 54       | -14.5  | AVG           |
| 7386                                                          | 53.72         | -0.75  | 52.97          | 74       | -21.03 | peak          |
| 7386                                                          | 39.10         | -0.75  | 38.35          | 54       | -15.65 | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 4924                                                          | 55.88         | -3.43  | 52.45          | 74       | -21.55 | peak          |
| 4924                                                          | 42.21         | -3.43  | 38.78          | 54       | -15.22 | AVG           |
| 7386                                                          | 52.61         | -0.75  | 51.86          | 74       | -22.14 | peak          |
| 7386                                                          | 40.91         | -0.75  | 40.16          | 54       | -13.84 | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |





## LOW CH3 (802.11ax/HT40 Mode)/2422

Horizontal:

| Frequency | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)     | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 4844      | 55.73         | -3.63  | 52.1           | 74       | -21.9  | peak          |
| 4844      | 41.08         | -3.63  | 37.45          | 54       | -16.55 | AVG           |
| 7266      | 55.48         | -0.94  | 54.54          | 74       | -19.46 | peak          |
| 7266      | 40.42         | -0.94  | 39.48          | 54       | -14.52 | AVG           |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

| Frequency | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)     | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 4844      | 54.22         | -3.63  | 50.59          | 74       | -23.41 | peak          |
| 4844      | 42.42         | -3.63  | 38.79          | 54       | -15.21 | AVG           |
| 7266      | 55.18         | -0.94  | 54.24          | 74       | -19.76 | peak          |
| 7266      | 38.76         | -0.94  | 37.82          | 54       | -16.18 | AVG           |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



MID CH6 (802.11ax/HT40 Mode)/2437

Horizontal:

| Frequency | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)     | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 4874      | 58.7          | -3.51  | 55.19          | 74       | -18.81 | peak          |
| 4874      | 43.98         | -3.51  | 40.47          | 54       | -13.53 | AVG           |
| 7311      | 53.34         | -0.82  | 52.52          | 74       | -21.48 | peak          |
| 7311      | 41.71         | -0.82  | 40.89          | 54       | -13.11 | AVG           |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

| Frequency | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)     | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 4874      | 55.69         | -3.51  | 52.18          | 74       | -21.82 | peak          |
| 4874      | 41.97         | -3.51  | 38.46          | 54       | -15.54 | AVG           |
| 7311      | 53.48         | -0.82  | 52.66          | 74       | -21.34 | peak          |
| 7311      | 40.93         | -0.82  | 40.11          | 54       | -13.89 | AVG           |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



HIGH CH9 (802.11ax/HT40 Mode)/2452

Horizontal:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 4904                                                          | 55.56         | -3.43  | 52.13          | 74       | -21.87 | peak          |
| 4904                                                          | 44.20         | -3.43  | 40.77          | 54       | -13.23 | AVG           |
| 7356                                                          | 51.39         | -0.75  | 50.64          | 74       | -23.36 | peak          |
| 7356                                                          | 39.10         | -0.75  | 38.35          | 54       | -15.65 | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 4904                                                          | 58.18         | -3.43  | 54.75          | 74       | -19.25 | peak          |
| 4904                                                          | 46.06         | -3.43  | 42.63          | 54       | -11.37 | AVG           |
| 7356                                                          | 53.35         | -0.75  | 52.6           | 74       | -21.4  | peak          |
| 7356                                                          | 41.08         | -0.75  | 40.33          | 54       | -13.67 | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Remark:

- (1) Measuring frequencies from 1 GHz to the 25 GHz.
- (2) "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) \* denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (4) The emissions are attenuated more than 20dB below the permissible limits are not record in the report.
- (5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.
- (6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed.
- (7) All modes of operation were investigated and the worst-case emissions of MIMO are reported.



**Test Result of Radiated Spurious at Band edges**

All modes of operation were investigated and the worst-case of MIMO are reported.

Operation Mode:

802.11b Mode TX CH Low (2412MHz)

**Horizontal**

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 2310                                                          | 57.46         | -5.81  | 51.65          | 74       | -22.35 | peak          |
| 2310                                                          | /             | -5.81  | /              | 54       | /      | AVG           |
| 2390                                                          | 56.29         | -5.84  | 50.45          | 74       | -23.55 | peak          |
| 2390                                                          | /             | -5.84  | /              | 54       | /      | AVG           |
| 2400                                                          | 54.31         | -5.84  | 48.47          | 74       | -25.53 | peak          |
| 2400                                                          | /             | -5.84  | /              | 54       | /      | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

**Vertical:**

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 2310                                                          | 57.89         | -5.81  | 52.08          | 74       | -21.92 | peak          |
| 2310                                                          | /             | -5.81  | /              | 54       | /      | AVG           |
| 2390                                                          | 54.17         | -5.84  | 48.33          | 74       | -25.67 | peak          |
| 2390                                                          | /             | -5.84  | /              | 54       | /      | AVG           |
| 2400                                                          | 50.58         | -5.84  | 44.74          | 74       | -29.26 | peak          |
| 2400                                                          | /             | -5.84  | /              | 54       | /      | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |



Operation Mode: TX CH High (2462MHz)

Horizontal

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 2483.50                                                       | 56.24         | -5.65  | 50.59          | 74       | -23.41 | peak          |
| 2483.50                                                       | /             | -5.65  | /              | 54       | /      | AVG           |
| 2500.00                                                       | 53.18         | -5.65  | 47.53          | 74       | -26.47 | peak          |
| 2500.00                                                       | /             | -5.65  | /              | 54       | /      | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                                                              | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|--------------------------------------------------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                                                                  | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 2483.50                                                                                                | 58.24         | -5.65  | 52.59          | 74       | -21.41 | peak          |
| 2483.50                                                                                                | /             | -5.65  | /              | 54       | /      | AVG           |
| 2500.00                                                                                                | 56.08         | -5.65  | 50.43          | 74       | -23.57 | peak          |
| 2500.00                                                                                                | /             | -5.65  | /              | 54       | /      | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.                                          |               |        |                |          |        |               |
| Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit. |               |        |                |          |        |               |



Operation Mode: 802.11g Mode TX CH Low (2412MHz)

## Horizontal

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 2310                                                          | 57.36         | -5.81  | 51.55          | 74       | -22.45 | peak          |
| 2310                                                          | /             | -5.81  | /              | 54       | /      | AVG           |
| 2390                                                          | 55.24         | -5.84  | 49.4           | 74       | -24.6  | peak          |
| 2390                                                          | /             | -5.84  | /              | 54       | /      | AVG           |
| 2400                                                          | 52.88         | -5.84  | 47.04          | 74       | -26.96 | peak          |
| 2400                                                          | /             | -5.84  | /              | 54       | /      | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

## Vertical:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 2310                                                          | 57.13         | -5.81  | 51.32          | 74       | -22.68 | peak          |
| 2310                                                          | /             | -5.81  | /              | 54       | /      | AVG           |
| 2390                                                          | 56.06         | -5.84  | 50.22          | 74       | -23.78 | peak          |
| 2390                                                          | /             | -5.84  | /              | 54       | /      | AVG           |
| 2400                                                          | 54.76         | -5.84  | 48.92          | 74       | -25.08 | peak          |
| 2400                                                          | /             | -5.84  | /              | 54       | /      | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |





Operation Mode: TX CH High (2462MHz)

Horizontal

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 2483.50                                                       | 57.42         | -5.65  | 51.77          | 74       | -22.23 | peak          |
| 2483.50                                                       | /             | -5.65  | /              | 54       | /      | AVG           |
| 2500.00                                                       | 53.66         | -5.65  | 48.01          | 74       | -25.99 | peak          |
| 2500.00                                                       | /             | -5.65  | /              | 54       | /      | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                                                              | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|--------------------------------------------------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                                                                  | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 2483.50                                                                                                | 57.79         | -5.65  | 52.14          | 74       | -21.86 | peak          |
| 2483.50                                                                                                | /             | -5.65  | /              | 54       | /      | AVG           |
| 2500.00                                                                                                | 52.05         | -5.65  | 46.4           | 74       | -27.6  | peak          |
| 2500.00                                                                                                | /             | -5.65  | /              | 54       | /      | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.                                          |               |        |                |          |        |               |
| Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit. |               |        |                |          |        |               |



Operation Mode: 802.11n/HT20 Mode TX CH Low (2412MHz)

Horizontal

| Frequency<br>(MHz) | Meter Reading<br>(dBμV) | Factor<br>(dB) | Emission Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Detector Type |
|--------------------|-------------------------|----------------|----------------------------|--------------------|----------------|---------------|
| 2310               | 57.14                   | -5.81          | 51.33                      | 74                 | -22.67         | peak          |
| 2310               | /                       | -5.81          | /                          | 54                 | /              | AVG           |
| 2390               | 55.03                   | -5.84          | 49.19                      | 74                 | -24.81         | peak          |
| 2390               | /                       | -5.84          | /                          | 54                 | /              | AVG           |
| 2400               | 51.87                   | -5.84          | 46.03                      | 74                 | -27.97         | peak          |
| 2400               | /                       | -5.84          | /                          | 54                 | /              | AVG           |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

| Frequency<br>(MHz) | Meter Reading<br>(dBμV) | Factor<br>(dB) | Emission Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Detector Type |
|--------------------|-------------------------|----------------|----------------------------|--------------------|----------------|---------------|
| 2310               | 57.04                   | -5.81          | 51.23                      | 74                 | -22.77         | peak          |
| 2310               | /                       | -5.81          | /                          | 54                 | /              | AVG           |
| 2390               | 53.89                   | -5.84          | 48.05                      | 74                 | -25.95         | peak          |
| 2390               | /                       | -5.84          | /                          | 54                 | /              | AVG           |
| 2400               | 50.22                   | -5.84          | 44.38                      | 74                 | -29.62         | peak          |
| 2400               | /                       | -5.84          | /                          | 54                 | /              | AVG           |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



Operation Mode: TX CH High (2462MHz)

Horizontal

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 2483.50                                                       | 56.34         | -5.65  | 50.69          | 74       | -23.31 | peak          |
| 2483.50                                                       | /             | -5.65  | /              | 54       | /      | AVG           |
| 2500.00                                                       | 52.98         | -5.65  | 47.33          | 74       | -26.67 | peak          |
| 2500.00                                                       | /             | -5.65  | /              | 54       | /      | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                                                              | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|--------------------------------------------------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                                                                  | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 2483.50                                                                                                | 55.18         | -5.65  | 49.53          | 74       | -24.47 | peak          |
| 2483.50                                                                                                | /             | -5.65  | /              | 54       | /      | AVG           |
| 2500.00                                                                                                | 52.39         | -5.65  | 46.74          | 74       | -27.26 | peak          |
| 2500.00                                                                                                | /             | -5.65  | /              | 54       | /      | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.                                          |               |        |                |          |        |               |
| Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit. |               |        |                |          |        |               |





Operation Mode: 802.11n/HT40 Mode TX CH Low (2422MHz)

Horizontal

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 2310                                                          | 57.46         | -5.81  | 51.65          | 74       | -22.35 | peak          |
| 2310                                                          | /             | -5.81  | /              | 54       | /      | AVG           |
| 2390                                                          | 55.19         | -5.84  | 49.35          | 74       | -24.65 | peak          |
| 2390                                                          | /             | -5.84  | /              | 54       | /      | AVG           |
| 2400                                                          | 52.31         | -5.84  | 46.47          | 74       | -27.53 | peak          |
| 2400                                                          | /             | -5.84  | /              | 54       | /      | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 2310                                                          | 56.05         | -5.81  | 50.24          | 74       | -23.76 | peak          |
| 2310                                                          | /             | -5.81  | /              | 54       | /      | AVG           |
| 2390                                                          | 54.12         | -5.84  | 48.28          | 74       | -25.72 | peak          |
| 2390                                                          | /             | -5.84  | /              | 54       | /      | AVG           |
| 2400                                                          | 50.89         | -5.84  | 45.05          | 74       | -28.95 | peak          |
| 2400                                                          | /             | -5.84  | /              | 54       | /      | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |



Operation Mode: TX CH High (2452MHz)

Horizontal

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 2483.50                                                       | 55.89         | -5.65  | 50.24          | 74       | -23.76 | peak          |
| 2483.50                                                       | /             | -5.65  | /              | 54       | /      | AVG           |
| 2500.00                                                       | 51.34         | -5.65  | 45.69          | 74       | -28.31 | peak          |
| 2500.00                                                       | /             | -5.65  | /              | 54       | /      | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                                                              | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|--------------------------------------------------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                                                                  | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 2483.50                                                                                                | 57.17         | -5.65  | 51.52          | 74       | -22.48 | peak          |
| 2483.50                                                                                                | /             | -5.65  | /              | 54       | /      | AVG           |
| 2500.00                                                                                                | 52.56         | -5.65  | 46.91          | 74       | -27.09 | peak          |
| 2500.00                                                                                                | /             | -5.65  | /              | 54       | /      | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.                                          |               |        |                |          |        |               |
| Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit. |               |        |                |          |        |               |



Operation Mode: 802.11ax/HT20 Mode TX CH Low (2412MHz)

## Horizontal

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 2310                                                          | 56.45         | -5.81  | 50.64          | 74       | -23.36 | peak          |
| 2310                                                          | /             | -5.81  | /              | 54       | /      | AVG           |
| 2390                                                          | 52.88         | -5.84  | 47.04          | 74       | -26.96 | peak          |
| 2390                                                          | /             | -5.84  | /              | 54       | /      | AVG           |
| 2400                                                          | 50.19         | -5.84  | 44.35          | 74       | -29.65 | peak          |
| 2400                                                          | /             | -5.84  | /              | 54       | /      | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

## Vertical:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 2310                                                          | 57.02         | -5.81  | 51.21          | 74       | -22.79 | peak          |
| 2310                                                          | /             | -5.81  | /              | 54       | /      | AVG           |
| 2390                                                          | 55.69         | -5.84  | 49.85          | 74       | -24.15 | peak          |
| 2390                                                          | /             | -5.84  | /              | 54       | /      | AVG           |
| 2400                                                          | 51.04         | -5.84  | 45.2           | 74       | -28.8  | peak          |
| 2400                                                          | /             | -5.84  | /              | 54       | /      | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |





Operation Mode: TX CH High (2462MHz)

Horizontal

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 2483.50                                                       | 57.14         | -5.65  | 51.49          | 74       | -22.51 | peak          |
| 2483.50                                                       | /             | -5.65  | /              | 54       | /      | AVG           |
| 2500.00                                                       | 50.52         | -5.65  | 44.87          | 74       | -29.13 | peak          |
| 2500.00                                                       | /             | -5.65  | /              | 54       | /      | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                                                              | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|--------------------------------------------------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                                                                  | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 2483.50                                                                                                | 54.13         | -5.65  | 48.48          | 74       | -25.52 | peak          |
| 2483.50                                                                                                | /             | -5.65  | /              | 54       | /      | AVG           |
| 2500.00                                                                                                | 51.64         | -5.65  | 45.99          | 74       | -28.01 | peak          |
| 2500.00                                                                                                | /             | -5.65  | /              | 54       | /      | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.                                          |               |        |                |          |        |               |
| Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit. |               |        |                |          |        |               |



Operation Mode: 802.11ax/HT40 Mode TX CH Low (2422MHz)

All modes of operation were investigated and the worst-case of MIMO are reported.

#### Horizontal

| Frequency<br>(MHz)                                            | Meter Reading<br>(dBμV) | Factor<br>(dB) | Emission Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Detector Type |
|---------------------------------------------------------------|-------------------------|----------------|----------------------------|--------------------|----------------|---------------|
|                                                               |                         |                |                            |                    |                |               |
| 2310                                                          | 56.08                   | -5.81          | 50.27                      | 74                 | -23.73         | peak          |
| 2310                                                          | /                       | -5.81          | /                          | 54                 | /              | AVG           |
| 2390                                                          | 53.54                   | -5.84          | 47.7                       | 74                 | -26.3          | peak          |
| 2390                                                          | /                       | -5.84          | /                          | 54                 | /              | AVG           |
| 2400                                                          | 50.14                   | -5.84          | 44.3                       | 74                 | -29.7          | peak          |
| 2400                                                          | /                       | -5.84          | /                          | 54                 | /              | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |                         |                |                            |                    |                |               |

#### Vertical:

| Frequency<br>(MHz)                                            | Meter Reading<br>(dBμV) | Factor<br>(dB) | Emission Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Detector Type |
|---------------------------------------------------------------|-------------------------|----------------|----------------------------|--------------------|----------------|---------------|
|                                                               |                         |                |                            |                    |                |               |
| 2310                                                          | 56.77                   | -5.81          | 50.96                      | 74                 | -23.04         | peak          |
| 2310                                                          | /                       | -5.81          | /                          | 54                 | /              | AVG           |
| 2390                                                          | 54.31                   | -5.84          | 48.47                      | 74                 | -25.53         | peak          |
| 2390                                                          | /                       | -5.84          | /                          | 54                 | /              | AVG           |
| 2400                                                          | 51.28                   | -5.84          | 45.44                      | 74                 | -28.56         | peak          |
| 2400                                                          | /                       | -5.84          | /                          | 54                 | /              | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |                         |                |                            |                    |                |               |



Operation Mode: TX CH High (2452MHz)

Horizontal

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 2483.50                                                       | 53.16         | -5.65  | 47.51          | 74       | -26.49 | peak          |
| 2483.50                                                       | /             | -5.65  | /              | 54       | /      | AVG           |
| 2500.00                                                       | 50.85         | -5.65  | 45.2           | 74       | -28.8  | peak          |
| 2500.00                                                       | /             | -5.65  | /              | 54       | /      | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                                                              | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|--------------------------------------------------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                                                                  | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 2483.50                                                                                                | 57.12         | -5.65  | 51.47          | 74       | -22.53 | peak          |
| 2483.50                                                                                                | /             | -5.65  | /              | 54       | /      | AVG           |
| 2500.00                                                                                                | 52.69         | -5.65  | 47.04          | 74       | -26.96 | peak          |
| 2500.00                                                                                                | /             | -5.65  | /              | 54       | /      | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.                                          |               |        |                |          |        |               |
| Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit. |               |        |                |          |        |               |





## 4.7. ANTENNA REQUIREMENT

### Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247, if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

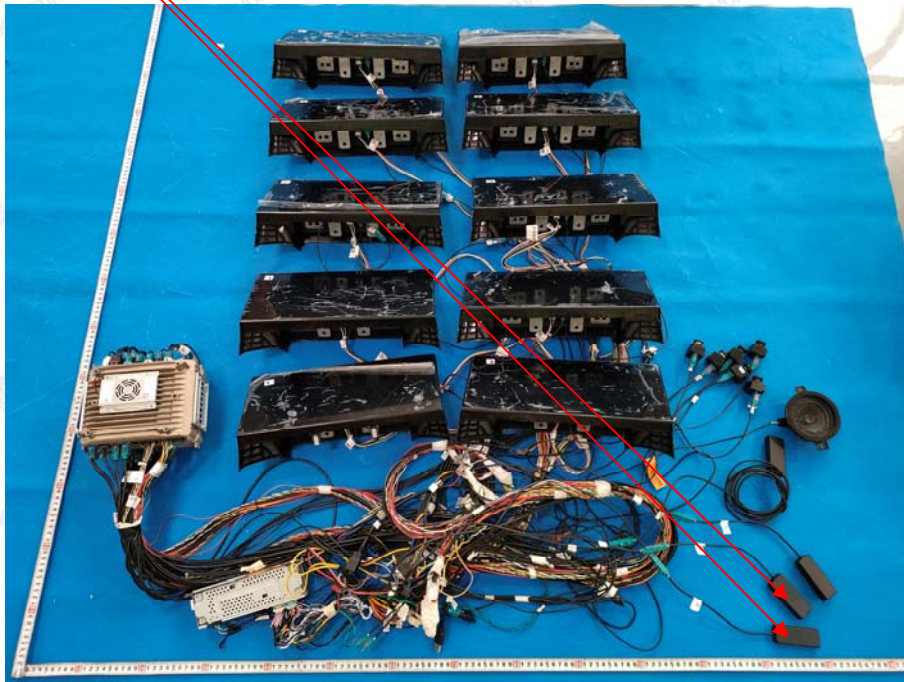
### Refer to statement below for compliance.

The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

### Antenna Connected Construction

The antenna used in this product is a External Antenna, need professional installation. It conforms to the standard requirements. and the best case gain of the antenna is Antenna port 1:1dBi and Antenna port 2:1dBi.

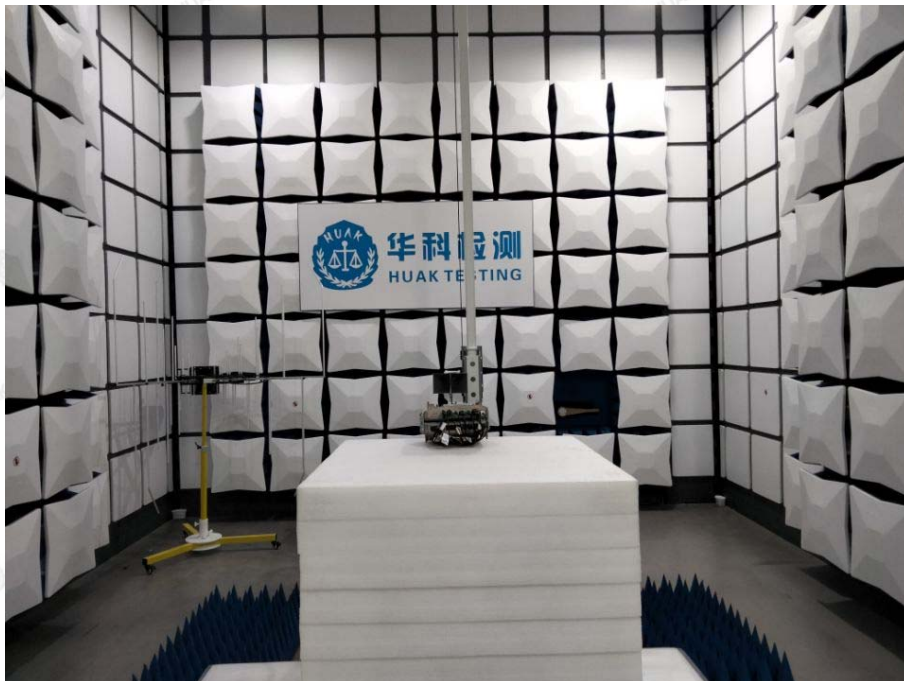
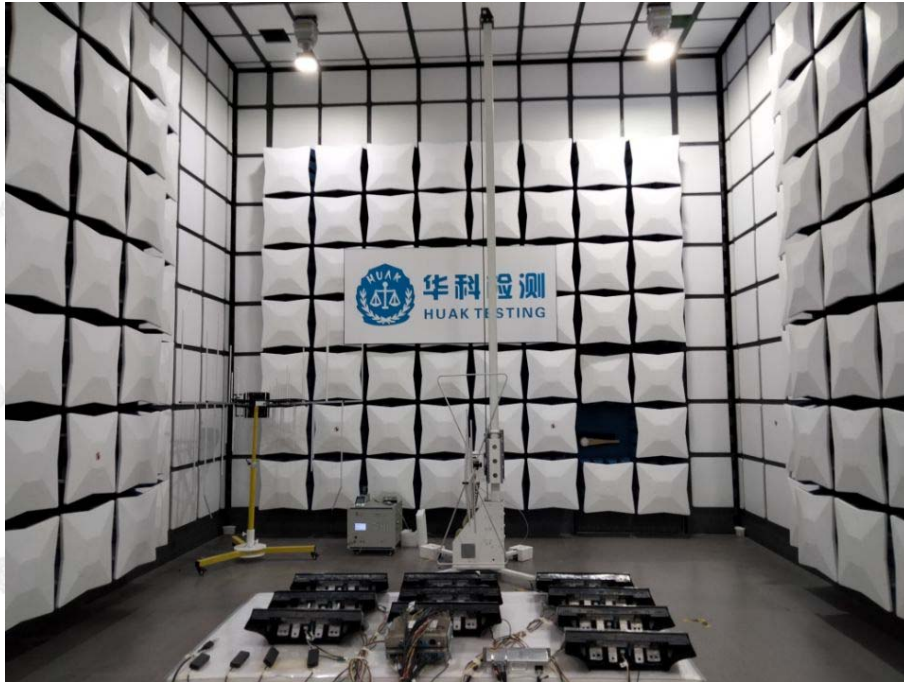
### WIFI ANTENNA





## 5. PHOTOGRAPH OF TEST

### Radiated Emission



The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAKE, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.cer-mark.com>.

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## 6. PHOTOS OF THE EUT

Reference to the report: ANNEX A of external photos and ANNEX B of internal photos

-----End of test report-----