

# FCC RF Test Report

## (U-NII)

**Report No.:** JYTSZ-R12-2500543

**Applicant:** Shenzhen Gotron Electronic CO., LTD.

**Address of Applicant:** 7B01, Building A, Block 1, Anhongji Tianyao Plaza, Longhua District, Shenzhen City, Guangdong Province China

**Equipment Under Test (EUT)**

Product Name: Smart Phone

Model No.: GQ5017, Armor 34 Pro, Armor 34, Armor 34 Ultra, Armor 34T Ultra, Armor 34T Pro, Armor 34 Lite, Armor 34s, Armor 34s Pro

Trade Mark: ulefone

**FCC ID:** 2AOWK-5017

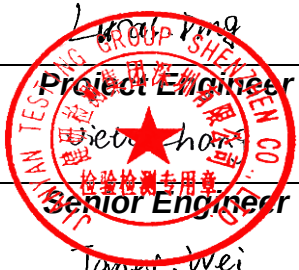
**Applicable Standards:** FCC CFR Title 47 Part 15E (§15.407)

**Date of Sample Receipt:** 24 Mar., 2025

**Date of Test:** 25 Mar., to 30 Jul., 2025

**Date of Report Issued:** 30 Jul., 2025

**Test Result:** PASS

|                     |                                                                                     |              |               |
|---------------------|-------------------------------------------------------------------------------------|--------------|---------------|
| <b>Tested by:</b>   |  | <b>Date:</b> | 30 Jul., 2025 |
| <b>Reviewed by:</b> |                                                                                     | <b>Date:</b> | 30 Jul., 2025 |
| <b>Approved by:</b> | Manager                                                                             | <b>Date:</b> | 30 Jul., 2025 |

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in above the application standard version. Test results reported herein relate only to the item(s) tested.

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## 1 Version

| Version No. | Date          | Description                                                                            |
|-------------|---------------|----------------------------------------------------------------------------------------|
| 00          | 22 Apr., 2025 | Original                                                                               |
| 01          | 16 Jul., 2025 | Updated pages 5 ,7 ,13,16,19 and<br>Appendix – 5.2G Wi-Fi and<br>Appendix – 5.8G Wi-Fi |
| 02          | 16 Jul., 2025 | Updated Appendix – 5.2G Wi-Fi and<br>Appendix – 5.8G Wi-Fi                             |
|             |               |                                                                                        |
|             |               |                                                                                        |

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## 3 General Information

### 3.1 Client Information

|               |                                                                                                              |
|---------------|--------------------------------------------------------------------------------------------------------------|
| Applicant:    | Shenzhen Gotron Electronic CO., LTD.                                                                         |
| Address:      | 7B01, Building A, Block 1, Anhongji Tianyao Plaza, Longhua District, Shenzhen City, Guangdong Province China |
| Manufacturer: | Shenzhen Gotron Electronic CO., LTD.                                                                         |
| Address:      | 7B01, Building A, Block 1, Anhongji Tianyao Plaza, Longhua District, Shenzhen City, Guangdong Province China |

### 3.2 General Description of E.U.T.

|                                                  |                                                                                                                                                                                                                                                                   |                                           |
|--------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| Product Name:                                    | Smart Phone                                                                                                                                                                                                                                                       |                                           |
| Model No.:                                       | GQ5017, Armor 34 Pro, Armor 34, Armor 34 Ultra, Armor 34T Ultra, Armor 34T Pro, Armor 34 Lite, Armor 34s, Armor 34s Pro                                                                                                                                           |                                           |
| Operation Frequency:                             | Band 1:                                                                                                                                                                                                                                                           | 5150 MHz - 5250 MHz                       |
|                                                  | Band 4:                                                                                                                                                                                                                                                           | 5725 MHz - 5850 MHz                       |
| Channel Numbers:                                 | Band 1:                                                                                                                                                                                                                                                           | 4 , Band 4: 5 (802.11a, n-HT20, ac-VHT20) |
|                                                  | Band 1, 4:                                                                                                                                                                                                                                                        | 2 (802.11n-HT40, ac-VHT40)                |
|                                                  | Band 1, 4:                                                                                                                                                                                                                                                        | 1 (802.11ac-VHT80)                        |
| Modulation Technology:<br>(IEEE 802.11a/802.11n) | OFDM-BPSK, QPSK, 16QAM, 64QAM                                                                                                                                                                                                                                     |                                           |
| Modulation Technology:<br>(IEEE 802.11ac)        | OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM                                                                                                                                                                                                                             |                                           |
| Antenna Type:                                    | Internal Antenna                                                                                                                                                                                                                                                  |                                           |
| Antenna Gain:                                    | Band 1:                                                                                                                                                                                                                                                           | ANT0: 3.81 dBi (declare by applicant)     |
|                                                  |                                                                                                                                                                                                                                                                   | ANT8: 2.40 dBi (declare by applicant)     |
|                                                  | Band 4:                                                                                                                                                                                                                                                           | ANT0: 0.23dBi (declare by applicant)      |
|                                                  |                                                                                                                                                                                                                                                                   | ANT8: 1.30 dBi (declare by applicant)     |
| Antenna Transmit Mode:                           | MIMO (2TX, 2RX)                                                                                                                                                                                                                                                   |                                           |
| Power Supply:                                    | Rechargeable Li-ion Battery DC3.87V, 25500mAh                                                                                                                                                                                                                     |                                           |
| AC Adapter:                                      | Model:HJ-PD66W-US<br>Input: AC100-240V, 50/60Hz, 1.5A<br>Output: DC 5.0V, 3.0A 15.0W OR 9.0V, 3.0A 27.0W OR 12.0V, 3.0A 36.0W OR 15.0V, 3.0A 45.0W OR 20.0V 3.25A 65W OR 11.0V, 6.0A 66.0W MAX                                                                    |                                           |
| Remark:                                          | GQ5017, Armor 34 Pro, Armor 34, Armor 34 Ultra, Armor 34T Ultra, Armor 34T Pro, Armor 34 Lite, Armor 34s, Armor 34s Pro were identical inside, the electrical circuit design, layout, components used and internal wiring, with only difference being model name. |                                           |
| Test Sample Condition:                           | The test samples were provided in good working order with no visible defects.                                                                                                                                                                                     |                                           |

### 3.3 Test Mode and Environment

| <b>Test Mode:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| Transmitting mode:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Keep the EUT in continuous transmitting with modulation           |
| <b>Per-scan all kind of data rate, the follow list were the worst case:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                   |
| Mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Data rate                                                         |
| 802.11a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 6.0 Mbps                                                          |
| 802.11n-HT20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6.5 Mbps                                                          |
| 802.11n-HT40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 13.5 Mbps                                                         |
| 802.11ac-VHT20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 6.5 Mbps                                                          |
| 802.11ac-VHT40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 13.5 Mbps                                                         |
| 802.11ac-VHT80                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 29.3 Mbps                                                         |
| <b>Remark:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                   |
| <ol style="list-style-type: none"> <li>For AC power line conducted emission and radiated spurious emission (below 1GHz), pre-scan 802.11a, n, ac modulation mode, found 5.2GHz Wi-Fi ANT0 802.11a modulation and Lowes channel mode was worse case mode. The report only reflects the test data of worst mode.</li> <li>During the test, the mobile phone dial interface is used to enter the EUT engineering mode, and the prototype transmission power level is set as follows: The 802.11a mode transmission power level is 14, the 802.11n/ac20 mode prototype transmission power level is 16, the 802.11n/ac40 mode prototype transmission power level is 10 and the 802.11ac80 mode prototype transmission power level is 10.</li> </ol> |                                                                   |
| <b>Operating Environment:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                   |
| Temperature:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 15°C ~ 35°C                                                       |
| Humidity:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 20 % ~ 75 % RH                                                    |
| Atmospheric Pressure:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1008 mbar                                                         |
| Voltage:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Nominal: 3.87Vdc, Extreme: Low 3.00Vdc, High 4.45Vdc              |
| Test Engineer:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Li Huang(Conducted measurement)<br>Robin Gu(Radiated measurement) |

### 3.4 Description of Test Auxiliary Equipment

|                                                 |
|-------------------------------------------------|
| The EUT has been tested as an independent unit. |
|-------------------------------------------------|

### 3.5 Measurement Uncertainty

| Parameter                                                                                                                                                                                                                                                                                                            | Expanded Uncertainty<br>(Confidence of 95%(U = 2Uc(y))) |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|
| Occupied Channel Bandwidth                                                                                                                                                                                                                                                                                           | 0.250 MHz                                               |
| RF output power, conducted                                                                                                                                                                                                                                                                                           | 0.75dB                                                  |
| Power Spectral Density, conducted                                                                                                                                                                                                                                                                                    | ±3.0 dB                                                 |
| Unwanted Emissions, conducted                                                                                                                                                                                                                                                                                        | 2.86 dB                                                 |
| Conducted Emission for LISN (9kHz ~ 150kHz)                                                                                                                                                                                                                                                                          | ±3.0 dB                                                 |
| Conducted Emission for LISN (150kHz ~ 30MHz)                                                                                                                                                                                                                                                                         | ±2.4 dB                                                 |
| Radiated Emission (30MHz ~ 200MHz) (3m SAC)                                                                                                                                                                                                                                                                          | ±4.6 dB                                                 |
| Radiated Emission (200MHz ~ 1000MHz) (3m SAC)                                                                                                                                                                                                                                                                        | ±5.8 dB                                                 |
| Radiated Emission (1GHz ~ 18GHz) (3m FAR)                                                                                                                                                                                                                                                                            | 5.15 dB                                                 |
| Radiated Emission (18GHz ~ 40GHz) (3m FAR)                                                                                                                                                                                                                                                                           | 5.30 dB                                                 |
| <b>Note:</b> All the measurement uncertainty value were shown with a coverage k=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance. |                                                         |

### 3.6 Additions to, Deviations, or Exclusions from the Method

|    |
|----|
| No |
|----|

## 3.7 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **FCC - Designation No.: CN1211**

JianYan Testing Group Shenzhen Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

- **ISED – CAB identifier.: CN0021**

The 3m Semi-anechoic chamber and 10m Semi-anechoic chamber of JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

- **CNAS - Registration No.: CNAS L15527**

JianYan Testing Group Shenzhen Co., Ltd. is accredited to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L15527.

- **A2LA - Registration No.: 4346.01**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: <https://portal.a2la.org/scopepdf/4346-01.pdf>

## 3.8 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd.

Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.

Tel: +86-755-23118282, Fax: +86-755-23116366

Email: info-JYTee@lets.com, Website: <http://jyt.lets.com>

## 3.9 Test Instruments List

| Radiated Emission(3m SAC):   |                 |                |                  |                      |                          |
|------------------------------|-----------------|----------------|------------------|----------------------|--------------------------|
| Test Equipment               | Manufacturer    | Model No.      | Manage No.       | Cal. Date (mm-dd-yy) | Cal. Due date (mm-dd-yy) |
| 3m SAC                       | ETS             | 9m*6m*6m       | WXJ001-1         | 04-14-2021           | 04-13-2026               |
| Loop Antenna                 | Schwarzbeck     | FMZB 1519 B    | WXJ002-4         | 01-03-2025           | 01-02-2026               |
| BiConiLog Antenna            | Schwarzbeck     | VULB9163       | WXJ002           | 01-03-2025           | 01-02-2026               |
| Pre-amplifier (30MHz ~ 1GHz) | Schwarzbeck     | BBV9743B       | WXJ001-2         | 12-16-2024           | 12-15-2025               |
| EMI Test Receiver            | Rohde & Schwarz | ESRP7          | WXJ003-1         | 12-16-2024           | 12-15-2025               |
| Coaxial Cable (30MHz ~ 1GHz) | JYTSZ           | JYT3M-1G-NN-8M | WXG001-4         | 01-15-2025           | 01-14-2026               |
| Band Reject Filter Group     | Tonscend        | JS0806-F       | WXJ089           | N/A                  |                          |
| Test Software                | Tonscend        | TS+            | Version: 3.0.0.1 |                      |                          |

| Radiated Emission(3m FAR):    |                 |                 |                |                      |                          |
|-------------------------------|-----------------|-----------------|----------------|----------------------|--------------------------|
| Test Equipment                | Manufacturer    | Model No.       | Manage No.     | Cal. Date (mm-dd-yy) | Cal. Due date (mm-dd-yy) |
| 3m FAR                        | YUNYI           | 9m*6m*6m        | WXJ097         | 06-15-2023           | 06-14-2028               |
| BiConiLog Antenna             | Schwarzbeck     | VULB9163        | WXJ097-2       | 07-01-2024           | 06-30-2025               |
| Biconical Antenna             | Schwarzbeck     | VUBA9117        | WXJ002-1       | 04-24-2025           | 04-23-2026               |
| Horn Antenna                  | Schwarzbeck     | BBHA9120D       | WXJ097-3       | 07-01-2024           | 06-30-2027               |
| Horn Antenna                  | Schwarzbeck     | BBHA9120D       | WXJ002-3       | 06-16-2024           | 06-15-2025               |
| Horn Antenna                  | Schwarzbeck     | BBHA9170        | WXJ002-5       | 05-23-2025           | 05-22-2026               |
| Horn Antenna                  | Schwarzbeck     | BBHA9170        | WXJ002-6       | 12-25-2024           | 12-24-2025               |
| Pre-amplifier (30MHz ~ 1GHz)  | YUNYI           | PAM-310N        | WXJ097-5       | 12-25-2024           | 12-24-2025               |
| Pre-amplifier (1GHz ~ 18GHz)  | YUNYI           | PAM-118N        | WXJ097-6       | 04-24-2024           | 04-23-2025               |
| Pre-amplifier (18GHz ~ 40GHz) | RF System       | TRLA-180400G45B | WXJ002-7       | 04-21-2025           | 04-20-2026               |
| EMI Test Receiver             | Rohde & Schwarz | ESCI3           | WXJ003         | 04-24-2024           | 04-23-2025               |
| Spectrum Analyzer             | Rohde & Schwarz | FSP 30          | WXJ004         | 04-21-2025           | 04-20-2026               |
| Spectrum Analyzer             | KEYSIGHT        | N9020B          | WXJ081-1       | 12-16-2024           | 12-15-2025               |
| Coaxial Cable (30MHz ~ 1GHz)  | JYTSZ           | JYT3M-1G-NN-13M | WXG097-1       | 12-16-2024           | 12-15-2025               |
| Coaxial Cable (1GHz ~ 18GHz)  | JYTSZ           | JYT3M-18G-NN-8M | WXG097-2       | 06-11-2024           | 06-10-2025               |
| Coaxial Cable (18GHz ~ 40GHz) | JYTSZ           | JYT3M-40G-SS-8M | WXG097-3       | 05-08-2025           | 05-07-2026               |
| High Band Reject Filter Group | Tonscend        | JS0806-F        | WXJ089         | 07-30-2024           | 07-29-2025               |
| Low Band Reject Filter Group  | Tonscend        | JS0806-F        | WXJ097-4       | 07-30-2024           | 07-29-2025               |
| Test Software                 | Tonscend        | TS+             | Version: 5.0.0 |                      |                          |

| Conducted Emission:               |                 |                |                    |                      |                          |
|-----------------------------------|-----------------|----------------|--------------------|----------------------|--------------------------|
| Test Equipment                    | Manufacturer    | Model No.      | Manage No.         | Cal. Date (mm-dd-yy) | Cal. Due date (mm-dd-yy) |
| EMI Test Receiver                 | Rohde & Schwarz | ESR3           | WXJ003-2           | 06-11-2024           | 06-10-2025               |
| LISN                              | Schwarzbeck     | NSLK 8127      | QCJ001-13          | 05-08-2025           | 05-07-2026               |
| LISN                              | Rohde & Schwarz | ESH3-Z5        | WXJ005-1           | 12-17-2024           | 12-16-2025               |
| LISN Coaxial Cable (9kHz ~ 30MHz) | JYTSZ           | JYTCE-1G-NN-2M | WXG003-1           | 12-17-2024           | 12-16-2025               |
| RF Switch                         | TOP PRECISION   | RSU0301        | WXG003             | 01-15-2025           | 01-14-2026               |
| Test Software                     | AUDIX           | E3             | Version: 6.110919b |                      |                          |

| Conducted Method:            |               |            |                  |                      |                          |
|------------------------------|---------------|------------|------------------|----------------------|--------------------------|
| Test Equipment               | Manufacturer  | Model No.  | Manage No.       | Cal. Date (mm-dd-yy) | Cal. Due date (mm-dd-yy) |
| Spectrum Analyzer            | Keysight      | N9010B     | WXJ004-3         | 09-10-2024           | 09-09-2025               |
| Temperature Humidity Chamber | ZHONG ZHI     | CZ-A-80D   | WXJ032-3         | 12-17-2024           | 12-16-2026               |
| Power Detector Box           | MWRFTTEST     | MW100-PSB  | WXJ007-4         | 09-10-2024           | 09-09-2025               |
| RF Control Unit              | MWRFTTEST     | MW100-RFCB | WXG006           | N/A                  |                          |
| RF Switch                    | TOP PRECISION | RSU0301    | WXG003           | N/A                  |                          |
| DC Power Supply              | Keysight      | E3642A     | WXJ025-2         | N/A                  |                          |
| Test Software                | MWRFTTEST     | MTS 8310   | Version: 2.0.0.0 |                      |                          |

## 4 Measurement Setup and Procedure

### 4.1 Test Channel

According to ANSI C63.10-2013 chapter 5.6.1 Table 4 requirement, select lowest channel, middle channel, and highest channel in the frequency range in which device operates for testing. The detailed frequency points are as follows:

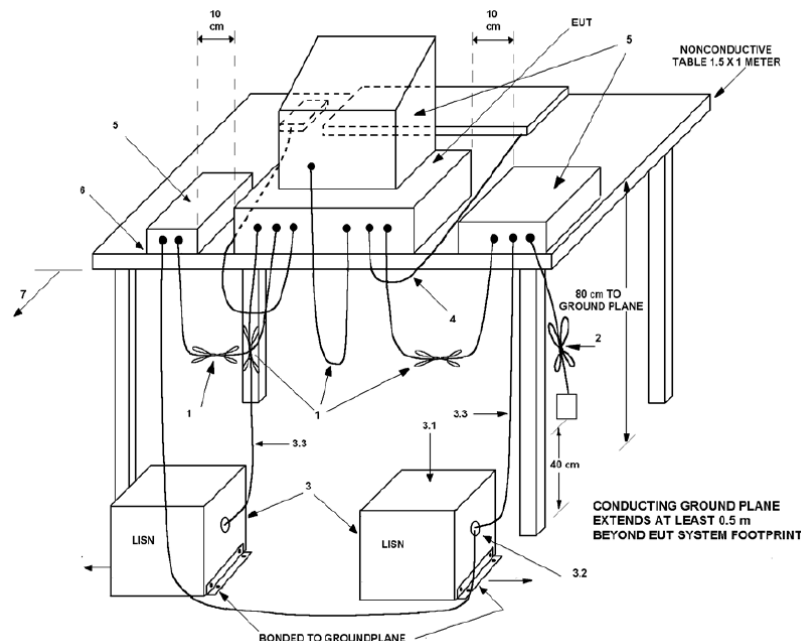
| Operation frequency: 5150 MHz – 5250 MHz |                |                 |                |                 |                 |                 |
|------------------------------------------|----------------|-----------------|----------------|-----------------|-----------------|-----------------|
| Modulation mode                          | Lowest channel |                 | Middle channel |                 | Highest channel |                 |
|                                          | Channel No.    | Frequency (MHz) | Channel No.    | Frequency (MHz) | Channel No.     | Frequency (MHz) |
| 802.11a, n-HT20, ac-VHT20                | 36             | 5180            | 40             | 5200            | 48              | 5240            |
| 802.11n-HT40, ac-VHT40                   | 38             | 5190            | /              | /               | 46              | 5230            |
| 802.11ac-VHT80                           | /              | /               | 42             | 5210            | /               | /               |

| Operation frequency: 5725 MHz – 5850 MHz |                |                 |                |                 |                 |                 |
|------------------------------------------|----------------|-----------------|----------------|-----------------|-----------------|-----------------|
| Modulation mode                          | Lowest channel |                 | Middle channel |                 | Highest channel |                 |
|                                          | Channel No.    | Frequency (MHz) | Channel No.    | Frequency (MHz) | Channel No.     | Frequency (MHz) |
| 802.11a, n-HT20, ac-VHT20                | 149            | 5745            | 157            | 5785            | 165             | 5825            |
| 802.11n-HT40, ac-VHT40                   | 151            | 5755            | /              | /               | 159             | 5795            |
| 802.11ac-VHT80                           | /              | /               | 155            | 5775            | /               | /               |

### 4.2 Test Setup

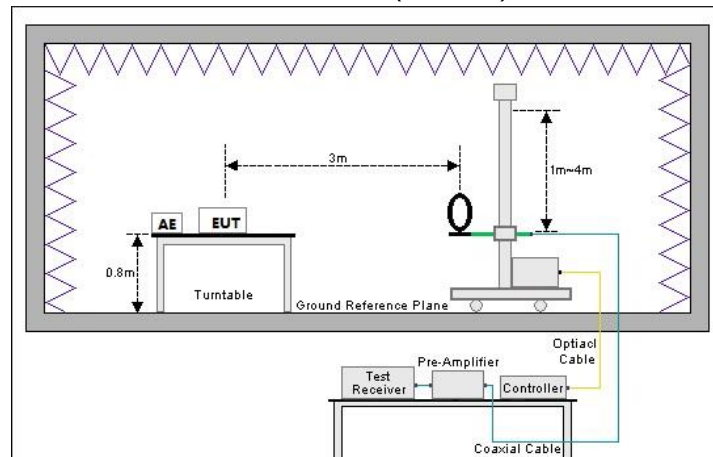
#### 1) Conducted emission measurement:



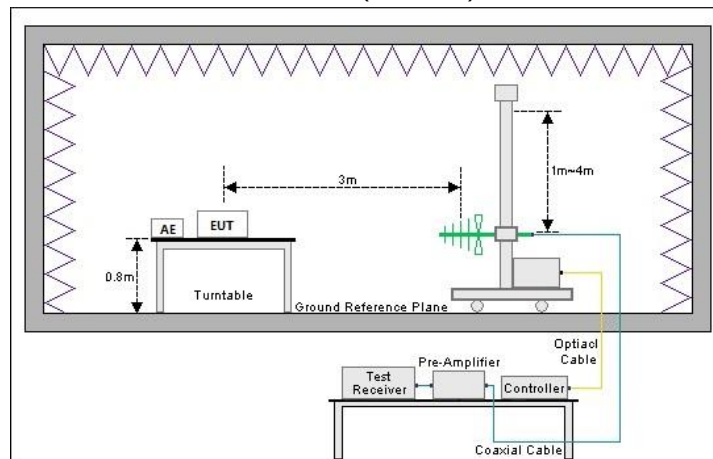
**Note:** The detailed descriptions please refer to Figure 8 of ANSI C63.4:2014.

## 2) Radiated emission measurement:

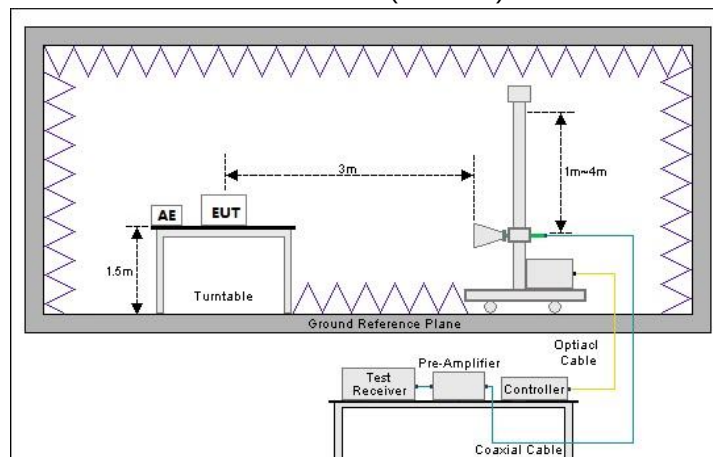
9KHz-30MHz (3m SAC)



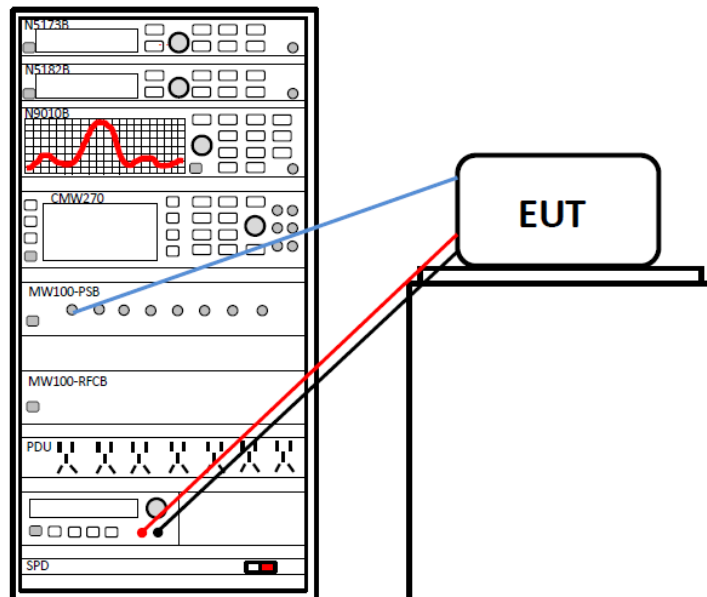
Below 1GHz (3m SAC)



Above 1GHz (3m FAR)



### 3) Conducted test method



## 4.3 Test Procedure

| Test method           | Test step                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Conducted emission    | <ol style="list-style-type: none"> <li>1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment.</li> <li>2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).</li> <li>3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Radiated emission     | <p><b>For below 30MHz:</b></p> <ol style="list-style-type: none"> <li>1. The EUT was placed on the table top of a rotating table 0.8 m the ground at a 3 m semi anechoic chamber. The measurement distance from the EUT to the receiving antenna is 3 m.</li> <li>2. EUT works in each mode of operation that needs to be tested , and having the EUT continuously working, respectively on 3 axis (X, Y &amp; Z) and considered typical configuration to obtain worst position. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations.</li> <li>3. Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data.</li> </ol> <p><b>For below 1GHz:</b></p> <ol style="list-style-type: none"> <li>4. The EUT was placed on the tabletop of a rotating table 0.8 m the ground at a 3 m semi anechoic chamber. The measurement distance from the EUT to the receiving antenna is 3 m.</li> <li>5. EUT works in each mode of operation that needs to be tested , and having the EUT continuously working, respectively on 3 axis (X, Y &amp; Z) and considered typical configuration to obtain worst position. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations.</li> <li>6. Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data.</li> </ol> <p><b>For above 1GHz:</b></p> <ol style="list-style-type: none"> <li>1. The EUT was placed on the tabletop of a rotating table 1.5 m the ground at a 3 m fully anechoic room. The measurement distance from the EUT to the receiving antenna is 3 m.</li> <li>2. EUT works in each mode of operation that needs to be tested , and having the EUT continuously working, respectively on 3 axis (X, Y &amp; Z) and considered typical configuration to obtain worst position. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations.</li> <li>3. Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data.</li> </ol> |
| Conducted test method | <ol style="list-style-type: none"> <li>1. The Wi-Fi antenna port of EUT was connected to the test port of the test system through an RF cable.</li> <li>2. The EUT is keeping in continuous transmission mode and tested in all modulation modes.</li> <li>3. Open the test software, prepare a test plan, and control the system through the software. After the test is completed, the test report is exported through the test software.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

## 5 Test Results

### 5.1 Summary

#### 5.1.1 Clause and Data Summary

| Test items                                                                                                                                                                                                                                                   | Standard clause                                                                   | Test Method                                             | Test data                                      | Result |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------------------|------------------------------------------------|--------|
| Antenna Requirement                                                                                                                                                                                                                                          | 15.203                                                                            | /                                                       | See Section 5.2                                | Pass   |
| AC Power Line Conducted Emission                                                                                                                                                                                                                             | 15.207<br>15.407 (b)(9)                                                           | ANSI C63.10 clause 6.2                                  | See Section 5.3                                | Pass   |
| Duty Cycle                                                                                                                                                                                                                                                   | ANSI C63.10-2013                                                                  | ANSI C63.10 clause 12.2                                 | Appendix – 5.2G Wi-Fi<br>Appendix – 5.8G Wi-Fi | Pass   |
| Conducted Peak Output Power<br>Power Spectral Density                                                                                                                                                                                                        | 15.407 (a)(1)(iv),<br>(a)(3)(i)                                                   | ANSI C63.10 clause 12.3.3.1,<br>ANSI C63.10 clause 12.5 | Appendix – 5.2G Wi-Fi<br>Appendix – 5.8G Wi-Fi | Pass   |
| 26dB Emission Bandwidth<br>99% Occupied Bandwidth                                                                                                                                                                                                            | 15.407 (a)(12)                                                                    | ANSI C63.10 clause 12.4.1,<br>ANSI C63.10 clause 6.9.3  | Appendix – 5.2G Wi-Fi                          | Pass   |
| 6dB Emission Bandwidth                                                                                                                                                                                                                                       | 15.407 (e)                                                                        | ANSI C63.10 clause 12.4.1                               | Appendix – 5.8G Wi-Fi                          | Pass   |
| Unwanted Emissions                                                                                                                                                                                                                                           | 15.205<br>15.209<br>15.407 (b)(1), (4),<br>(9), (10)                              | ANSI C63.10 clause 6.3,<br>6.5, 6.6 and 6.10.5          | See Section 5.4                                | Pass   |
| Frequency Stability                                                                                                                                                                                                                                          | 15.407 (g)                                                                        | ANSI C63.10 clause 6.8.1                                | Appendix – 5.2G Wi-Fi<br>Appendix – 5.8G Wi-Fi | Pass   |
| Dynamic frequency selection                                                                                                                                                                                                                                  | 15.407 (h)(2)                                                                     | KDB 905462 D02                                          | N/A                                            | N/A    |
| <b>Remark:</b><br>1. Pass: The EUT complies with the essential requirements in the standard.<br>2. N/A: Not Applicable.<br>3. The cable insertion loss used by "RF Output Power" and other conduction measurement items is 1.0dB (provided by the customer). |                                                                                   |                                                         |                                                |        |
| <b>Test Method:</b>                                                                                                                                                                                                                                          | ANSI C63.10-2013<br>KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 |                                                         |                                                |        |

## 5.1.2 Test Limit

| Test items                                                | Limit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                |              |  |            |         |            |                                |                                |         |    |    |        |    |    |
|-----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|--------------|--|------------|---------|------------|--------------------------------|--------------------------------|---------|----|----|--------|----|----|
| AC Power Line Conducted Emission                          | <table><tr><th rowspan="2">Frequency (MHz)</th><th colspan="2">Limit (dBμV)</th></tr><tr><th>Quasi-Peak</th><th>Average</th></tr><tr><td>0.15 – 0.5</td><td>66 to 56 <small>Note 1</small></td><td>56 to 46 <small>Note 1</small></td></tr><tr><td>0.5 – 5</td><td>56</td><td>46</td></tr><tr><td>5 – 30</td><td>60</td><td>50</td></tr></table> <p><b>Note 1:</b> The limit level in dBμV decreases linearly with the logarithm of frequency.<br/><b>Note 2:</b> The more stringent limit applies at transition frequencies.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Frequency (MHz)                | Limit (dBμV) |  | Quasi-Peak | Average | 0.15 – 0.5 | 66 to 56 <small>Note 1</small> | 56 to 46 <small>Note 1</small> | 0.5 – 5 | 56 | 46 | 5 – 30 | 60 | 50 |
| Frequency (MHz)                                           | Limit (dBμV)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                |              |  |            |         |            |                                |                                |         |    |    |        |    |    |
|                                                           | Quasi-Peak                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Average                        |              |  |            |         |            |                                |                                |         |    |    |        |    |    |
| 0.15 – 0.5                                                | 66 to 56 <small>Note 1</small>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 56 to 46 <small>Note 1</small> |              |  |            |         |            |                                |                                |         |    |    |        |    |    |
| 0.5 – 5                                                   | 56                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 46                             |              |  |            |         |            |                                |                                |         |    |    |        |    |    |
| 5 – 30                                                    | 60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 50                             |              |  |            |         |            |                                |                                |         |    |    |        |    |    |
| Conducted Peak Output Power<br><br>Power Spectral Density | <p><b>For the 5.15-5.25 GHz band:</b></p> <p>For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.</p> <p><b>For the band 5.725-5.895 GHz:</b></p> <p>For the band 5.725-5.850 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, Fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.</p> |                                |              |  |            |         |            |                                |                                |         |    |    |        |    |    |
| 26dB Emission Bandwidth<br>99% Occupied Bandwidth         | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                |              |  |            |         |            |                                |                                |         |    |    |        |    |    |
| 6dB Emission Bandwidth                                    | Within the 5.725-5.850 GHz and 5.850-5.895 GHz bands, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                |              |  |            |         |            |                                |                                |         |    |    |        |    |    |

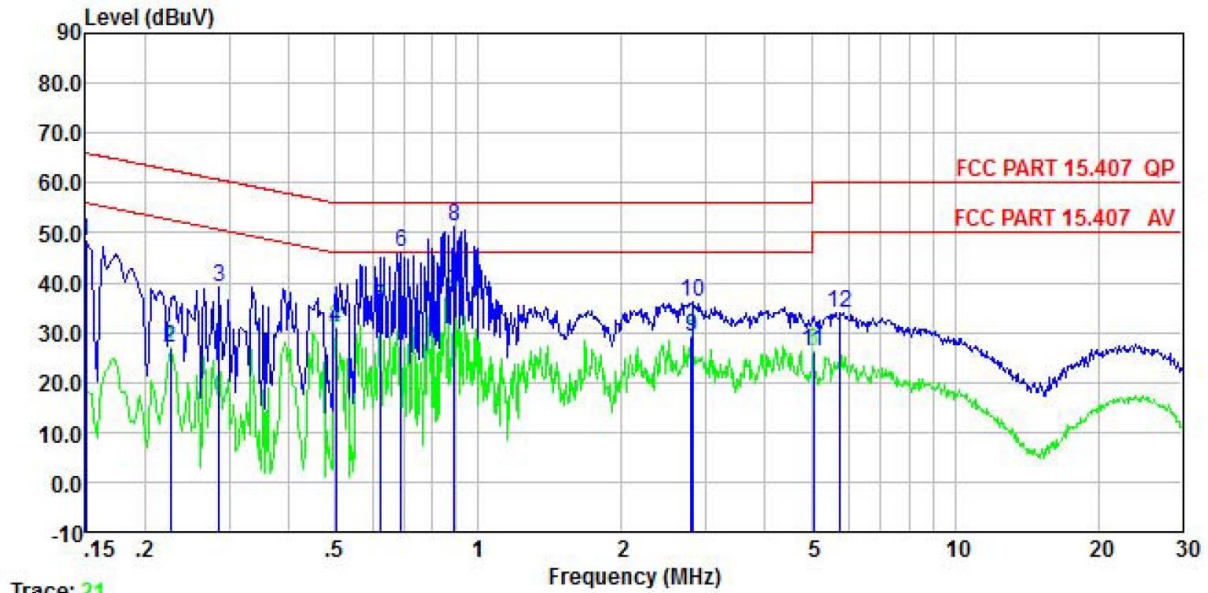
| Unwanted Emissions  | <p>(1) <b>For transmitters operating in the 5.15-5.25 GHz band:</b> All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.</p> <p>(2) <b>For transmitters operating solely in the 5.725-5.850 GHz band:</b> All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.</p> <p>(3) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in § 15.209. The provisions of § 15.205 apply to intentional radiators operating under this section:</p> <table><tr><th rowspan="2">Frequency (MHz)</th><th colspan="2">Limit (dBµV/m)</th><th rowspan="2">Detector</th></tr><tr><th>@ 3m</th><th>@ 10m</th></tr><tr><td>30 – 88</td><td>40.0</td><td>30.0</td><td>Quasi-peak</td></tr><tr><td>88 – 216</td><td>43.5</td><td>33.5</td><td>Quasi-peak</td></tr><tr><td>216 – 960</td><td>46.0</td><td>36.0</td><td>Quasi-peak</td></tr><tr><td>960 – 1000</td><td>54.0</td><td>44.0</td><td>Quasi-peak</td></tr></table> <p><b>Note:</b> The more stringent limit applies at transition frequencies.</p> <table><tr><th rowspan="2">Frequency</th><th colspan="2">Limit (dBµV/m) @ 3m</th></tr><tr><th>Average</th><th>Peake</th></tr><tr><td>Above 1 GHz</td><td>54.0</td><td>74.0</td></tr></table> <p><b>Note:</b> The measurement bandwidth shall be 1 MHz or greater.</p> | Frequency (MHz) | Limit (dBµV/m) |  | Detector | @ 3m | @ 10m | 30 – 88 | 40.0 | 30.0 | Quasi-peak | 88 – 216 | 43.5 | 33.5 | Quasi-peak | 216 – 960 | 46.0 | 36.0 | Quasi-peak | 960 – 1000 | 54.0 | 44.0 | Quasi-peak | Frequency | Limit (dBµV/m) @ 3m |  | Average | Peake | Above 1 GHz | 54.0 | 74.0 |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|----------------|--|----------|------|-------|---------|------|------|------------|----------|------|------|------------|-----------|------|------|------------|------------|------|------|------------|-----------|---------------------|--|---------|-------|-------------|------|------|
| Frequency (MHz)     | Limit (dBµV/m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                 | Detector       |  |          |      |       |         |      |      |            |          |      |      |            |           |      |      |            |            |      |      |            |           |                     |  |         |       |             |      |      |
|                     | @ 3m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | @ 10m           |                |  |          |      |       |         |      |      |            |          |      |      |            |           |      |      |            |            |      |      |            |           |                     |  |         |       |             |      |      |
| 30 – 88             | 40.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 30.0            | Quasi-peak     |  |          |      |       |         |      |      |            |          |      |      |            |           |      |      |            |            |      |      |            |           |                     |  |         |       |             |      |      |
| 88 – 216            | 43.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 33.5            | Quasi-peak     |  |          |      |       |         |      |      |            |          |      |      |            |           |      |      |            |            |      |      |            |           |                     |  |         |       |             |      |      |
| 216 – 960           | 46.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 36.0            | Quasi-peak     |  |          |      |       |         |      |      |            |          |      |      |            |           |      |      |            |            |      |      |            |           |                     |  |         |       |             |      |      |
| 960 – 1000          | 54.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 44.0            | Quasi-peak     |  |          |      |       |         |      |      |            |          |      |      |            |           |      |      |            |            |      |      |            |           |                     |  |         |       |             |      |      |
| Frequency           | Limit (dBµV/m) @ 3m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                 |                |  |          |      |       |         |      |      |            |          |      |      |            |           |      |      |            |            |      |      |            |           |                     |  |         |       |             |      |      |
|                     | Average                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Peake           |                |  |          |      |       |         |      |      |            |          |      |      |            |           |      |      |            |            |      |      |            |           |                     |  |         |       |             |      |      |
| Above 1 GHz         | 54.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 74.0            |                |  |          |      |       |         |      |      |            |          |      |      |            |           |      |      |            |            |      |      |            |           |                     |  |         |       |             |      |      |
| Frequency Stability | Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                 |                |  |          |      |       |         |      |      |            |          |      |      |            |           |      |      |            |            |      |      |            |           |                     |  |         |       |             |      |      |

## 5.2 Antenna requirement

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| <b>Standard requirement:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | FCC Part 15 C Section 15.203 |
| <p>15.203 requirement:<br/>           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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.</p>                                                                                        |                              |
| <b>E.U.T Antenna:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                              |
| <p>The Wi-Fi antenna is an internal antenna which cannot replace by end-user, the best case gain of the antenna is ANT0: 3.81dBi. See product internal photos for details.<br/> <i>Note: Unequal antenna gains, with equal transmit powers. The transmit signals are correlated, then</i><br/>           5.2GHz WiFi: Directional gain = <math>10 \log[(10^{G1/20} + 10^{G2/20})^2 / N_{ant}]</math>; So Directional gain = 6.14dBi.<br/>           5.8GHz WiFi: Directional gain = <math>10 \log[(10^{G1/20} + 10^{G2/20})^2 / N_{ant}]</math>; So Directional gain = 3.65dBi.</p> |                              |

## 5.3 AC Power Line Conducted Emission

|                 |                  |                |               |
|-----------------|------------------|----------------|---------------|
| Product name:   | Smart Phone      | Product model: | GQ5017        |
| Test by:        | Kiran Zeng       | Test mode:     | 5G Wi-Fi mode |
| Test frequency: | 150 kHz ~ 30 MHz | Phase:         | Line          |
| Test voltage:   | AC 120 V/60 Hz   |                |               |

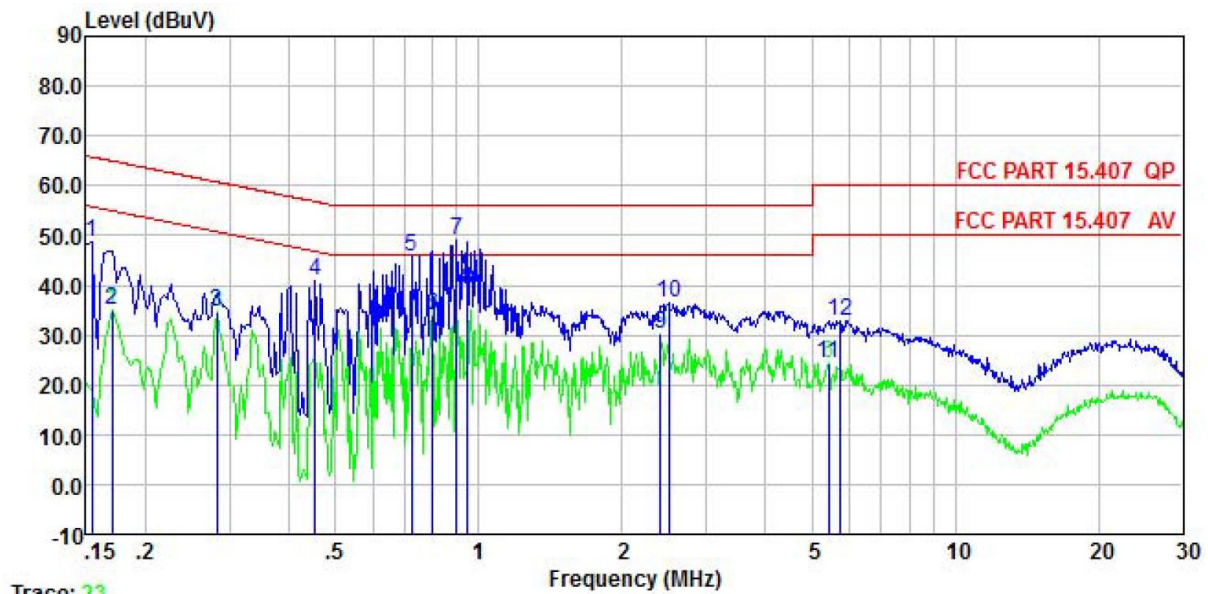


|       | Read  | LISN   | Aux    | Aux2   | Cable | Level | Limit | Over  |                |
|-------|-------|--------|--------|--------|-------|-------|-------|-------|----------------|
| Freq  | Level | Factor | Factor | Factor | Loss  | Level | Line  | Limit | Remark         |
| ----- | ----- | -----  | -----  | -----  | ----- | ----- | ----- | ----- | -----          |
| MHz   | dBuV  | dB     | dB     | dB     | dB    | dBuV  | dBuV  | dB    |                |
| 1     | 0.150 | 28.27  | 10.20  | 0.00   | 9.88  | 0.01  | 48.36 | 66.00 | -17.64 QP      |
| 2     | 0.226 | 6.84   | 10.10  | 0.00   | 9.88  | 0.02  | 26.84 | 52.61 | -25.77 Average |
| 3     | 0.286 | 19.24  | 10.10  | 0.00   | 9.88  | 0.03  | 39.25 | 60.63 | -21.38 QP      |
| 4     | 0.502 | 11.06  | 10.16  | 0.00   | 9.88  | 0.03  | 31.13 | 46.00 | -14.87 Average |
| 5     | 0.621 | 15.03  | 10.19  | 0.00   | 9.88  | 0.02  | 35.12 | 46.00 | -10.88 Average |
| 6     | 0.690 | 26.05  | 10.15  | 0.00   | 9.88  | 0.03  | 46.11 | 56.00 | -9.89 QP       |
| 7     | 0.890 | 18.08  | 10.15  | 0.00   | 9.88  | 0.04  | 38.15 | 46.00 | -7.85 Average  |
| 8     | 0.890 | 31.32  | 10.15  | 0.00   | 9.88  | 0.04  | 51.39 | 56.00 | -4.61 QP       |
| 9     | 2.794 | 8.87   | 10.26  | 0.00   | 9.88  | 0.10  | 29.11 | 46.00 | -16.89 Average |
| 10    | 2.809 | 15.91  | 10.27  | 0.00   | 9.88  | 0.09  | 36.15 | 56.00 | -19.85 QP      |
| 11    | 5.058 | 5.94   | 10.30  | 0.00   | 9.89  | 0.09  | 26.22 | 50.00 | -23.78 Average |
| 12    | 5.744 | 13.74  | 10.34  | 0.00   | 9.90  | 0.09  | 34.07 | 60.00 | -25.93 QP      |

### Remark:

1. Level = Read level + LISN Factor + Cable Loss.

|                 |                  |                |               |
|-----------------|------------------|----------------|---------------|
| Product name:   | Smart Phone      | Product model: | GQ5017        |
| Test by:        | Kiran Zeng       | Test mode:     | 5G Wi-Fi mode |
| Test frequency: | 150 kHz ~ 30 MHz | Phase:         | Neutral       |
| Test voltage:   | AC 120 V/60 Hz   |                |               |



|    | Freq  | Read Level | LISN Factor | Aux Factor | Aux2 Factor | Cable Loss | Level | Limit Line | Over Limit | Remark  |
|----|-------|------------|-------------|------------|-------------|------------|-------|------------|------------|---------|
|    | MHz   | dBuV       | dB          | dB         | dB          | dB         | dBuV  | dBuV       | dB         |         |
| 1  | 0.154 | 28.55      | 10.20       | 0.00       | 9.88        | 0.01       | 48.64 | 65.78      | -17.14     | QP      |
| 2  | 0.170 | 14.83      | 10.20       | 0.00       | 9.88        | 0.01       | 34.92 | 54.94      | -20.02     | Average |
| 3  | 0.282 | 14.54      | 10.15       | 0.00       | 9.88        | 0.02       | 34.59 | 50.76      | -16.17     | Average |
| 4  | 0.454 | 20.83      | 10.16       | 0.00       | 9.88        | 0.03       | 40.90 | 56.80      | -15.90     | QP      |
| 5  | 0.724 | 25.46      | 10.30       | 0.00       | 9.88        | 0.03       | 45.67 | 56.00      | -10.33     | QP      |
| 6  | 0.800 | 13.74      | 10.30       | 0.00       | 9.88        | 0.03       | 33.95 | 46.00      | -12.05     | Average |
| 7  | 0.899 | 28.79      | 10.25       | 0.00       | 9.88        | 0.04       | 48.96 | 56.00      | -7.04      | QP      |
| 8  | 0.948 | 18.88      | 10.23       | 0.00       | 9.88        | 0.05       | 39.04 | 46.00      | -6.96      | Average |
| 9  | 2.409 | 9.82       | 10.25       | 0.00       | 9.88        | 0.15       | 30.10 | 46.00      | -15.90     | Average |
| 10 | 2.500 | 16.09      | 10.24       | 0.00       | 9.88        | 0.13       | 36.34 | 56.00      | -19.66     | QP      |
| 11 | 5.419 | 4.24       | 10.22       | 0.00       | 9.90        | 0.09       | 24.45 | 50.00      | -25.55     | Average |
| 12 | 5.713 | 12.59      | 10.24       | 0.00       | 9.90        | 0.09       | 32.82 | 60.00      | -27.18     | QP      |

**Remark:**

1. Level = Read level + LISN Factor + Cable Loss.

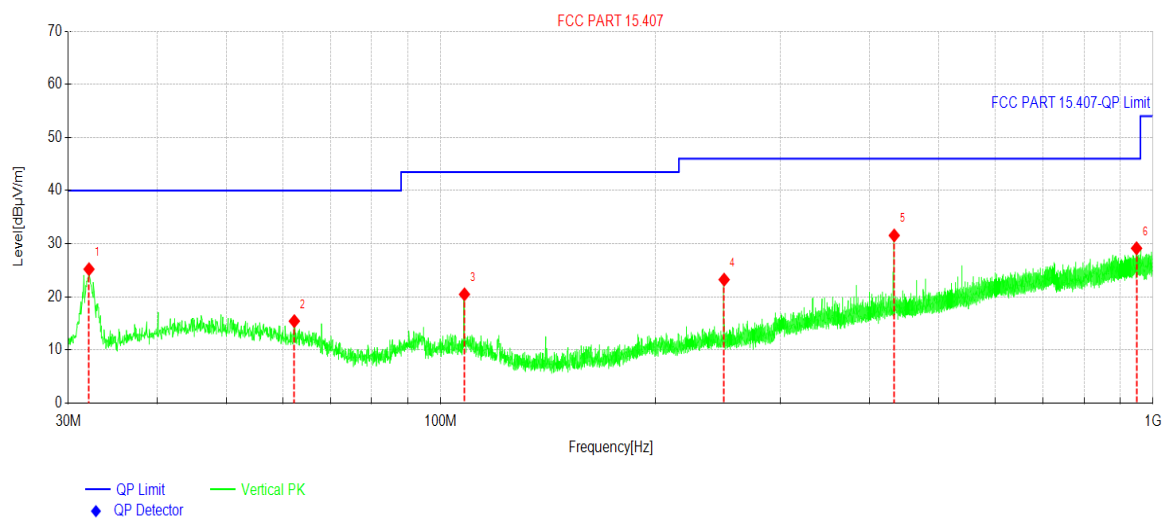
## 5.4 Unwanted Emissions

### Below 30MHz:

Test Frequency from 9kHz to 30MHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.

### Below 1GHz:

|                        |                |                       |               |
|------------------------|----------------|-----------------------|---------------|
| <b>Product Name:</b>   | Smart Phone    | <b>Product Model:</b> | GQ5017        |
| <b>Test By:</b>        | Kiran Zeng     | <b>Test mode:</b>     | 5G Wi-Fi mode |
| <b>Test Frequency:</b> | 30 MHz ~ 1 GHz | <b>Polarization:</b>  | Vertical      |
| <b>Test Voltage:</b>   | DC 3.87V       |                       |               |



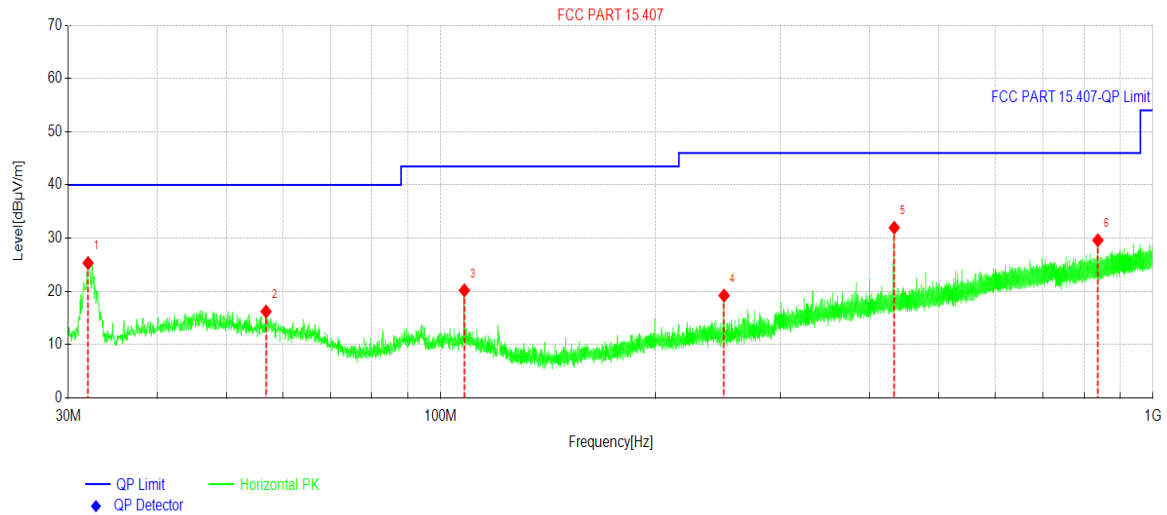
### Suspected Data List

| NO. | Freq. [MHz] | Reading [dBμV/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Trace | Polarity |
|-----|-------------|------------------|-------------|----------------|----------------|-------------|-------|----------|
| 1   | 32.0856     | 40.84            | -15.63      | 25.21          | 40.00          | 14.79       | PK    | Vertical |
| 2   | 62.3026     | 29.72            | -14.29      | 15.43          | 40.00          | 24.57       | PK    | Vertical |
| 3   | 107.9919    | 34.69            | -14.22      | 20.47          | 43.50          | 23.03       | PK    | Vertical |
| 4   | 250.0070    | 36.83            | -13.59      | 23.24          | 46.00          | 22.76       | PK    | Vertical |
| 5   | 433.2492    | 41.39            | -9.83       | 31.56          | 46.00          | 14.44       | PK    | Vertical |
| 6   | 948.2479    | 31.06            | -1.92       | 29.14          | 46.00          | 16.86       | PK    | Vertical |

### Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).

|                 |                |                |               |
|-----------------|----------------|----------------|---------------|
| Product Name:   | Smart Phone    | Product Model: | GQ5017        |
| Test By:        | Kiran Zeng     | Test mode:     | 5G Wi-Fi mode |
| Test Frequency: | 30 MHz ~ 1 GHz | Polarization:  | Horizontal    |
| Test Voltage:   | DC 3.87V       |                |               |



## Suspected Data List

| NO. | Freq. [MHz] | Reading [dBμV/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Trace | Polarity   |
|-----|-------------|------------------|-------------|----------------|----------------|-------------|-------|------------|
| 1   | 31.9886     | 40.97            | -15.64      | 25.33          | 40.00          | 14.67       | PK    | Horizontal |
| 2   | 56.8703     | 29.61            | -13.39      | 16.22          | 40.00          | 23.78       | PK    | Horizontal |
| 3   | 107.9434    | 34.42            | -14.22      | 20.20          | 43.50          | 23.30       | PK    | Horizontal |
| 4   | 249.9585    | 32.81            | -13.59      | 19.22          | 46.00          | 26.78       | PK    | Horizontal |
| 5   | 433.2492    | 41.80            | -9.83       | 31.97          | 46.00          | 14.03       | PK    | Horizontal |
| 6   | 836.9833    | 33.02            | -3.41       | 29.61          | 46.00          | 16.39       | PK    | Horizontal |

## Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).

## Above 1GHz

| Band 1: 5150 MHz - 5250 MHz, 802.11a – ANT0                                                                                                                                           |                   |             |                |                |             |              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------|----------------|----------------|-------------|--------------|
| Test channel: Lowest channel                                                                                                                                                          |                   |             |                |                |             |              |
| Detector: Peak Value                                                                                                                                                                  |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 5150.00                                                                                                                                                                               | 35.76             | 20.12       | 55.88          | 74.00          | 18.12       | Vertical     |
| 10360.00                                                                                                                                                                              | 45.86             | 1.40        | 47.26          | 68.20          | 20.94       | Vertical     |
| 5150.00                                                                                                                                                                               | 36.17             | 20.12       | 56.29          | 74.00          | 17.71       | Horizontal   |
| 10360.00                                                                                                                                                                              | 46.49             | 1.40        | 47.89          | 68.20          | 20.31       | Horizontal   |
| Detector: Average Value                                                                                                                                                               |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 5150.00                                                                                                                                                                               | 23.95             | 20.12       | 44.07          | 54.00          | 9.93        | Vertical     |
| 5150.00                                                                                                                                                                               | 24.05             | 20.12       | 44.17          | 54.00          | 9.83        | Horizontal   |
| Test channel: Middle channel                                                                                                                                                          |                   |             |                |                |             |              |
| Detector: Peak Value                                                                                                                                                                  |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 10400.00                                                                                                                                                                              | 45.84             | 2.45        | 48.29          | 68.20          | 19.91       | Vertical     |
| 10400.00                                                                                                                                                                              | 46.24             | 2.45        | 48.69          | 68.20          | 19.51       | Horizontal   |
| Test channel: Highest channel                                                                                                                                                         |                   |             |                |                |             |              |
| Detector: Peak Value                                                                                                                                                                  |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 5350.00                                                                                                                                                                               | 35.05             | 19.93       | 54.98          | 74.00          | 19.02       | Vertical     |
| 10480.00                                                                                                                                                                              | 46.09             | 2.74        | 48.83          | 68.20          | 19.37       | Vertical     |
| 5350.00                                                                                                                                                                               | 35.22             | 19.93       | 55.15          | 74.00          | 18.85       | Horizontal   |
| 10480.00                                                                                                                                                                              | 46.00             | 2.74        | 48.74          | 68.20          | 19.46       | Horizontal   |
| Detector: Average Value                                                                                                                                                               |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 5350.00                                                                                                                                                                               | 23.69             | 19.93       | 43.62          | 54.00          | 10.38       | Vertical     |
| 5350.00                                                                                                                                                                               | 23.76             | 19.93       | 43.69          | 54.00          | 10.31       | Horizontal   |
| <b>Remark:</b><br>1. Level = Reading + Factor.<br>2. Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report. |                   |             |                |                |             |              |

| Band 1: 5150 MHz - 5250 MHz, 802.11a – ANT8                                                                                                                                           |                   |             |                |                |             |              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------|----------------|----------------|-------------|--------------|
| Test channel: Lowest channel                                                                                                                                                          |                   |             |                |                |             |              |
| Detector: Peak Value                                                                                                                                                                  |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 5150.00                                                                                                                                                                               | 34.58             | 20.12       | 54.70          | 74.00          | 19.30       | Vertical     |
| 10360.00                                                                                                                                                                              | 47.06             | 1.40        | 48.46          | 68.20          | 19.74       | Vertical     |
| 5150.00                                                                                                                                                                               | 35.32             | 20.12       | 55.44          | 74.00          | 18.56       | Horizontal   |
| 10360.00                                                                                                                                                                              | 44.88             | 1.40        | 46.28          | 68.20          | 21.92       | Horizontal   |
| Detector: Average Value                                                                                                                                                               |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 5150.00                                                                                                                                                                               | 23.56             | 20.12       | 43.68          | 54.00          | 10.32       | Vertical     |
| 5150.00                                                                                                                                                                               | 23.63             | 20.12       | 43.75          | 54.00          | 10.25       | Horizontal   |
| Test channel: Middle channel                                                                                                                                                          |                   |             |                |                |             |              |
| Detector: Peak Value                                                                                                                                                                  |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 10400.00                                                                                                                                                                              | 46.96             | 2.45        | 49.41          | 68.20          | 18.79       | Vertical     |
| 10400.00                                                                                                                                                                              | 44.70             | 2.45        | 47.15          | 68.20          | 21.05       | Horizontal   |
| Test channel: Highest channel                                                                                                                                                         |                   |             |                |                |             |              |
| Detector: Peak Value                                                                                                                                                                  |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 5350.00                                                                                                                                                                               | 35.23             | 19.93       | 55.16          | 74.00          | 18.84       | Vertical     |
| 10480.00                                                                                                                                                                              | 46.99             | 2.74        | 49.73          | 68.20          | 18.47       | Vertical     |
| 5350.00                                                                                                                                                                               | 35.09             | 19.93       | 55.02          | 74.00          | 18.98       | Horizontal   |
| 10480.00                                                                                                                                                                              | 45.01             | 2.74        | 47.75          | 68.20          | 20.45       | Horizontal   |
| Detector: Average Value                                                                                                                                                               |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 5350.00                                                                                                                                                                               | 23.80             | 19.93       | 43.73          | 54.00          | 10.27       | Vertical     |
| 5350.00                                                                                                                                                                               | 23.71             | 19.93       | 43.64          | 54.00          | 10.36       | Horizontal   |
| <b>Remark:</b><br>1. Level = Reading + Factor.<br>2. Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report. |                   |             |                |                |             |              |

| Band 1: 5150 MHz - 5250 MHz, 802.11n-HT20 – MIMO                                                                                                                                      |                   |             |                |                |             |              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------|----------------|----------------|-------------|--------------|
| Test channel: Lowest channel                                                                                                                                                          |                   |             |                |                |             |              |
| Detector: Peak Value                                                                                                                                                                  |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 5150.00                                                                                                                                                                               | 35.31             | 20.12       | 55.43          | 74.00          | 18.57       | Vertical     |
| 10360.00                                                                                                                                                                              | 45.89             | 1.40        | 47.29          | 68.20          | 20.91       | Vertical     |
| 5150.00                                                                                                                                                                               | 35.73             | 20.12       | 55.85          | 74.00          | 18.15       | Horizontal   |
| 10360.00                                                                                                                                                                              | 46.04             | 1.40        | 47.44          | 68.20          | 20.76       | Horizontal   |
| Detector: Average Value                                                                                                                                                               |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 5150.00                                                                                                                                                                               | 24.18             | 20.12       | 44.30          | 54.00          | 9.70        | Vertical     |
| 5150.00                                                                                                                                                                               | 24.24             | 20.12       | 44.36          | 54.00          | 9.64        | Horizontal   |
| Test channel: Middle channel                                                                                                                                                          |                   |             |                |                |             |              |
| Detector: Peak Value                                                                                                                                                                  |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 10400.00                                                                                                                                                                              | 45.85             | 2.45        | 48.30          | 68.20          | 19.90       | Vertical     |
| 10400.00                                                                                                                                                                              | 46.38             | 2.45        | 48.83          | 68.20          | 19.37       | Horizontal   |
| Test channel: Highest channel                                                                                                                                                         |                   |             |                |                |             |              |
| Detector: Peak Value                                                                                                                                                                  |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 5350.00                                                                                                                                                                               | 34.81             | 19.93       | 54.74          | 74.00          | 19.26       | Vertical     |
| 10480.00                                                                                                                                                                              | 46.33             | 2.74        | 49.07          | 68.20          | 19.13       | Vertical     |
| 5350.00                                                                                                                                                                               | 34.95             | 19.93       | 54.88          | 74.00          | 19.12       | Horizontal   |
| 10480.00                                                                                                                                                                              | 46.08             | 2.74        | 48.82          | 68.20          | 19.38       | Horizontal   |
| Detector: Average Value                                                                                                                                                               |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 5350.00                                                                                                                                                                               | 23.99             | 19.93       | 43.92          | 54.00          | 10.08       | Vertical     |
| 5350.00                                                                                                                                                                               | 24.08             | 19.93       | 44.01          | 54.00          | 9.99        | Horizontal   |
| <b>Remark:</b><br>1. Level = Reading + Factor.<br>2. Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report. |                   |             |                |                |             |              |

| Band 1: 5150 MHz - 5250 MHz, 802.11n-HT40 – MIMO                                                                                                                                      |                   |             |                |                |             |              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------|----------------|----------------|-------------|--------------|
| Test channel: Lowest channel                                                                                                                                                          |                   |             |                |                |             |              |
| Detector: Peak Value                                                                                                                                                                  |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 5150.00                                                                                                                                                                               | 35.42             | 20.12       | 55.54          | 74.00          | 18.46       | Vertical     |
| 10380.00                                                                                                                                                                              | 45.89             | 1.96        | 47.85          | 68.20          | 20.35       | Vertical     |
| 5150.00                                                                                                                                                                               | 35.63             | 20.12       | 55.75          | 74.00          | 18.25       | Horizontal   |
| 10380.00                                                                                                                                                                              | 46.49             | 1.96        | 48.45          | 68.20          | 19.75       | Horizontal   |
| Detector: Average Value                                                                                                                                                               |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 5150.00                                                                                                                                                                               | 23.95             | 20.12       | 44.07          | 54.00          | 9.93        | Vertical     |
| 5150.00                                                                                                                                                                               | 24.14             | 20.12       | 44.26          | 54.00          | 9.74        | Horizontal   |
| Test channel: Highest channel                                                                                                                                                         |                   |             |                |                |             |              |
| Detector: Peak Value                                                                                                                                                                  |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 5350.00                                                                                                                                                                               | 34.86             | 19.93       | 54.79          | 74.00          | 19.21       | Vertical     |
| 10460.00                                                                                                                                                                              | 45.71             | 1.64        | 47.35          | 68.20          | 20.85       | Vertical     |
| 5350.00                                                                                                                                                                               | 35.44             | 19.93       | 55.37          | 74.00          | 18.63       | Horizontal   |
| 10460.00                                                                                                                                                                              | 46.44             | 1.64        | 48.08          | 68.20          | 20.12       | Horizontal   |
| Detector: Average Value                                                                                                                                                               |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 5350.00                                                                                                                                                                               | 24.06             | 19.93       | 43.99          | 54.00          | 10.01       | Vertical     |
| 5350.00                                                                                                                                                                               | 23.85             | 19.93       | 43.78          | 54.00          | 10.22       | Horizontal   |
| <b>Remark:</b><br>1. Level = Reading + Factor.<br>2. Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report. |                   |             |                |                |             |              |

| Band 1: 5150 MHz - 5250 MHz, 802.11ac-VHT20 – MIMO                                                                                                                                    |                   |             |                |                |             |              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------|----------------|----------------|-------------|--------------|
| Test channel: Lowest channel                                                                                                                                                          |                   |             |                |                |             |              |
| Detector: Peak Value                                                                                                                                                                  |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 5150.00                                                                                                                                                                               | 35.35             | 20.12       | 55.47          | 74.00          | 18.53       | Vertical     |
| 10360.00                                                                                                                                                                              | 45.85             | 1.40        | 47.25          | 68.20          | 20.95       | Vertical     |
| 5150.00                                                                                                                                                                               | 35.75             | 20.12       | 55.87          | 74.00          | 18.13       | Horizontal   |
| 10360.00                                                                                                                                                                              | 46.46             | 1.40        | 47.86          | 68.20          | 20.34       | Horizontal   |
| Detector: Average Value                                                                                                                                                               |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 5150.00                                                                                                                                                                               | 24.20             | 20.12       | 44.32          | 54.00          | 9.68        | Vertical     |
| 5150.00                                                                                                                                                                               | 24.10             | 20.12       | 44.22          | 54.00          | 9.78        | Horizontal   |
| Test channel: Middle channel                                                                                                                                                          |                   |             |                |                |             |              |
| Detector: Peak Value                                                                                                                                                                  |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 10400.00                                                                                                                                                                              | 46.34             | 2.45        | 48.79          | 68.20          | 19.41       | Vertical     |
| 10400.00                                                                                                                                                                              | 45.95             | 2.45        | 48.40          | 68.20          | 19.80       | Horizontal   |
| Test channel: Highest channel                                                                                                                                                         |                   |             |                |                |             |              |
| Detector: Peak Value                                                                                                                                                                  |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 5350.00                                                                                                                                                                               | 34.87             | 19.93       | 54.80          | 74.00          | 19.20       | Vertical     |
| 10480.00                                                                                                                                                                              | 46.60             | 2.74        | 49.34          | 68.20          | 18.86       | Vertical     |
| 5350.00                                                                                                                                                                               | 35.43             | 19.93       | 55.36          | 74.00          | 18.64       | Horizontal   |
| 10480.00                                                                                                                                                                              | 46.54             | 2.74        | 49.28          | 68.20          | 18.92       | Horizontal   |
| Detector: Average Value                                                                                                                                                               |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 5350.00                                                                                                                                                                               | 24.23             | 19.93       | 44.16          | 54.00          | 9.84        | Vertical     |
| 5350.00                                                                                                                                                                               | 23.78             | 19.93       | 43.71          | 54.00          | 10.29       | Horizontal   |
| <b>Remark:</b><br>1. Level = Reading + Factor.<br>2. Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report. |                   |             |                |                |             |              |

| Band 1: 5150 MHz - 5250 MHz, 802.11ac-VHT40 – MIMO                                                                                                                                    |                   |             |                |                |             |              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------|----------------|----------------|-------------|--------------|
| Test channel: Lowest channel                                                                                                                                                          |                   |             |                |                |             |              |
| Detector: Peak Value                                                                                                                                                                  |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 5150.00                                                                                                                                                                               | 35.12             | 20.12       | 55.24          | 74.00          | 18.76       | Vertical     |
| 10380.00                                                                                                                                                                              | 45.51             | 1.96        | 47.47          | 68.20          | 20.73       | Vertical     |
| 5150.00                                                                                                                                                                               | 35.82             | 20.12       | 55.94          | 74.00          | 18.06       | Horizontal   |
| 10380.00                                                                                                                                                                              | 46.08             | 1.96        | 48.04          | 68.20          | 20.16       | Horizontal   |
| Detector: Average Value                                                                                                                                                               |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 5150.00                                                                                                                                                                               | 24.36             | 20.12       | 44.48          | 54.00          | 9.52        | Vertical     |
| 5150.00                                                                                                                                                                               | 24.38             | 20.12       | 44.50          | 54.00          | 9.50        | Horizontal   |
| Test channel: Highest channel                                                                                                                                                         |                   |             |                |                |             |              |
| Detector: Peak Value                                                                                                                                                                  |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 5350.00                                                                                                                                                                               | 34.69             | 19.93       | 54.62          | 74.00          | 19.38       | Vertical     |
| 10460.00                                                                                                                                                                              | 45.48             | 1.64        | 47.12          | 68.20          | 21.08       | Vertical     |
| 5350.00                                                                                                                                                                               | 35.69             | 19.93       | 55.62          | 74.00          | 18.38       | Horizontal   |
| 10460.00                                                                                                                                                                              | 46.89             | 1.64        | 48.53          | 68.20          | 19.67       | Horizontal   |
| Detector: Average Value                                                                                                                                                               |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 5350.00                                                                                                                                                                               | 24.07             | 19.93       | 44.00          | 54.00          | 10.00       | Vertical     |
| 5350.00                                                                                                                                                                               | 23.60             | 19.93       | 43.53          | 54.00          | 10.47       | Horizontal   |
| <b>Remark:</b><br>1. Level = Reading + Factor.<br>2. Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report. |                   |             |                |                |             |              |

| Band 1: 5150 MHz - 5250 MHz, 802.11ac-VHT80 – MIMO                                                                                                                                    |                   |             |                |                |             |              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------|----------------|----------------|-------------|--------------|
| Test channel: Middle channel                                                                                                                                                          |                   |             |                |                |             |              |
| Detector: Peak Value                                                                                                                                                                  |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 5150.00                                                                                                                                                                               | 35.98             | 20.12       | 56.10          | 74.00          | 17.90       | Vertical     |
| 5350.00                                                                                                                                                                               | 36.03             | 19.93       | 55.96          | 74.00          | 18.04       | Vertical     |
| 10420.00                                                                                                                                                                              | 46.16             | 1.92        | 48.08          | 68.20          | 20.12       | Vertical     |
| 5150.00                                                                                                                                                                               | 36.12             | 20.12       | 56.24          | 74.00          | 17.76       | Horizontal   |
| 5350.00                                                                                                                                                                               | 35.56             | 19.93       | 55.49          | 74.00          | 18.51       | Horizontal   |
| 10420.00                                                                                                                                                                              | 46.18             | 1.92        | 48.10          | 68.20          | 20.10       | Horizontal   |
| Detector: Average Value                                                                                                                                                               |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 5150.00                                                                                                                                                                               | 24.58             | 20.12       | 44.70          | 54.00          | 9.30        | Vertical     |
| 5350.00                                                                                                                                                                               | 24.11             | 19.93       | 44.04          | 54.00          | 9.96        | Vertical     |
| 5150.00                                                                                                                                                                               | 24.69             | 20.12       | 44.81          | 54.00          | 9.19        | Horizontal   |
| 5350.00                                                                                                                                                                               | 23.95             | 19.93       | 43.88          | 54.00          | 10.12       | Horizontal   |
| <b>Remark:</b><br>1. Level = Reading + Factor.<br>2. Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report. |                   |             |                |                |             |              |

| Band 4: 5725 MHz - 5825 MHz, 802.11a – ANT0                                                                                                                                           |                   |             |                |                |             |              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------|----------------|----------------|-------------|--------------|
| Test channel: Lowest channel                                                                                                                                                          |                   |             |                |                |             |              |
| Detector: Peak Value                                                                                                                                                                  |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 5650.00                                                                                                                                                                               | 40.83             | 20.81       | 61.64          | 68.20          | 6.56        | Vertical     |
| 5700.00                                                                                                                                                                               | 40.97             | 21.58       | 62.55          | 105.20         | 42.65       | Vertical     |
| 5720.00                                                                                                                                                                               | 41.45             | 21.35       | 62.80          | 110.80         | 48.00       | Vertical     |
| 5725.00                                                                                                                                                                               | 40.15             | 21.29       | 61.44          | 122.20         | 60.76       | Vertical     |
| 11490.00                                                                                                                                                                              | 46.14             | 2.44        | 48.58          | 74.00          | 25.42       | Vertical     |
| 5650.00                                                                                                                                                                               | 41.02             | 20.81       | 61.83          | 68.20          | 6.37        | Horizontal   |
| 5700.00                                                                                                                                                                               | 39.67             | 21.58       | 61.25          | 105.20         | 43.95       | Horizontal   |
| 5720.00                                                                                                                                                                               | 41.37             | 21.35       | 62.72          | 110.80         | 48.08       | Horizontal   |
| 5725.00                                                                                                                                                                               | 40.84             | 21.29       | 62.13          | 122.20         | 60.07       | Horizontal   |
| 11490.00                                                                                                                                                                              | 45.66             | 2.44        | 48.10          | 74.00          | 25.90       | Horizontal   |
| Detector: Average Value                                                                                                                                                               |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 11490.00                                                                                                                                                                              | 37.16             | 2.44        | 39.60          | 54.00          | 14.40       | Vertical     |
| 11490.00                                                                                                                                                                              | 36.26             | 2.44        | 38.70          | 54.00          | 15.30       | Horizontal   |
| Test channel: Middle channel                                                                                                                                                          |                   |             |                |                |             |              |
| Detector: Peak Value                                                                                                                                                                  |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 11570.00                                                                                                                                                                              | 46.11             | 2.74        | 48.85          | 74.00          | 25.15       | Vertical     |
| 11570.00                                                                                                                                                                              | 45.37             | 2.74        | 48.11          | 74.00          | 25.89       | Horizontal   |
| Detector: Average Value                                                                                                                                                               |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 11570.00                                                                                                                                                                              | 36.92             | 2.74        | 39.66          | 54.00          | 14.34       | Vertical     |
| 11570.00                                                                                                                                                                              | 36.43             | 2.74        | 39.17          | 54.00          | 14.83       | Horizontal   |
| <b>Remark:</b><br>1. Level = Reading + Factor.<br>2. Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report. |                   |             |                |                |             |              |

| Test channel: Highest channel                                                                                                                                                         |                   |             |                |                |             |              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------|----------------|----------------|-------------|--------------|
| Detector: Peak Value                                                                                                                                                                  |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 5850.00                                                                                                                                                                               | 39.64             | 21.10       | 60.74          | 122.20         | 61.46       | Vertical     |
| 5855.00                                                                                                                                                                               | 39.27             | 21.15       | 60.42          | 110.80         | 50.38       | Vertical     |
| 5875.00                                                                                                                                                                               | 39.38             | 21.36       | 60.74          | 105.20         | 44.46       | Vertical     |
| 5925.00                                                                                                                                                                               | 39.11             | 21.70       | 60.81          | 68.20          | 7.39        | Vertical     |
| 11650.00                                                                                                                                                                              | 46.11             | 2.00        | 48.11          | 74.00          | 25.89       | Vertical     |
| 5850.00                                                                                                                                                                               | 39.86             | 21.10       | 60.96          | 122.20         | 61.24       | Horizontal   |
| 5855.00                                                                                                                                                                               | 40.77             | 21.15       | 61.92          | 110.80         | 48.88       | Horizontal   |
| 5875.00                                                                                                                                                                               | 38.67             | 21.36       | 60.03          | 105.20         | 45.17       | Horizontal   |
| 5925.00                                                                                                                                                                               | 39.58             | 21.70       | 61.28          | 68.20          | 6.92        | Horizontal   |
| 11650.00                                                                                                                                                                              | 45.28             | 2.00        | 47.28          | 74.00          | 26.72       | Horizontal   |
| Detector: Average Value                                                                                                                                                               |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 11650.00                                                                                                                                                                              | 37.58             | 2.00        | 39.58          | 54.00          | 14.42       | Vertical     |
| 11650.00                                                                                                                                                                              | 36.15             | 2.00        | 38.15          | 54.00          | 15.85       | Horizontal   |
| <b>Remark:</b><br>1. Level = Reading + Factor.<br>2. Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report. |                   |             |                |                |             |              |

| Band 4: 5725 MHz - 5825 MHz, 802.11a – ANT8                                                                                                                                           |                   |             |                |                |             |              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------|----------------|----------------|-------------|--------------|
| Test channel: Lowest channel                                                                                                                                                          |                   |             |                |                |             |              |
| Detector: Peak Value                                                                                                                                                                  |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 5650.00                                                                                                                                                                               | 40.56             | 20.81       | 61.37          | 68.20          | 6.83        | Vertical     |
| 5700.00                                                                                                                                                                               | 40.62             | 21.58       | 62.20          | 105.20         | 43.00       | Vertical     |
| 5720.00                                                                                                                                                                               | 41.61             | 41.09       | 82.70          | 110.80         | 28.10       | Vertical     |
| 5725.00                                                                                                                                                                               | 39.71             | 40.96       | 80.67          | 122.20         | 41.53       | Vertical     |
| 11490.00                                                                                                                                                                              | 47.27             | 2.44        | 49.71          | 74.00          | 24.29       | Vertical     |
| 5650.00                                                                                                                                                                               | 40.88             | 20.81       | 61.69          | 68.20          | 6.51        | Horizontal   |
| 5700.00                                                                                                                                                                               | 40.49             | 21.58       | 62.07          | 105.20         | 43.13       | Horizontal   |
| 5720.00                                                                                                                                                                               | 40.11             | 21.35       | 61.46          | 110.80         | 49.34       | Horizontal   |
| 5725.00                                                                                                                                                                               | 40.45             | 21.29       | 61.74          | 122.20         | 60.46       | Horizontal   |
| 11490.00                                                                                                                                                                              | 46.60             | 2.44        | 49.04          | 74.00          | 24.96       | Horizontal   |
| Detector: Average Value                                                                                                                                                               |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 11490.00                                                                                                                                                                              | 37.20             | 2.44        | 39.64          | 54.00          | 14.36       | Vertical     |
| 11490.00                                                                                                                                                                              | 37.48             | 2.44        | 39.92          | 54.00          | 14.08       | Horizontal   |
| Test channel: Middle channel                                                                                                                                                          |                   |             |                |                |             |              |
| Detector: Peak Value                                                                                                                                                                  |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 11570.00                                                                                                                                                                              | 47.11             | 2.74        | 49.85          | 74.00          | 24.15       | Vertical     |
| 11570.00                                                                                                                                                                              | 46.75             | 2.74        | 49.49          | 74.00          | 24.51       | Horizontal   |
| Detector: Average Value                                                                                                                                                               |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 11570.00                                                                                                                                                                              | 36.96             | 2.74        | 39.70          | 54.00          | 14.30       | Vertical     |
| 11570.00                                                                                                                                                                              | 37.32             | 2.74        | 40.06          | 54.00          | 13.94       | Horizontal   |
| <b>Remark:</b><br>1. Level = Reading + Factor.<br>2. Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report. |                   |             |                |                |             |              |

| Test channel: Highest channel                                                                                                                                                         |                   |             |                |                |             |              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------|----------------|----------------|-------------|--------------|
| Detector: Peak Value                                                                                                                                                                  |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 5850.00                                                                                                                                                                               | 40.03             | 21.10       | 61.13          | 122.20         | 61.07       | Vertical     |
| 5855.00                                                                                                                                                                               | 39.16             | 21.15       | 60.31          | 110.80         | 50.49       | Vertical     |
| 5875.00                                                                                                                                                                               | 39.79             | 21.36       | 61.15          | 105.20         | 44.05       | Vertical     |
| 5925.00                                                                                                                                                                               | 39.40             | 21.70       | 61.10          | 68.20          | 7.10        | Vertical     |
| 11650.00                                                                                                                                                                              | 47.17             | 2.00        | 49.17          | 74.00          | 24.83       | Vertical     |
| 5850.00                                                                                                                                                                               | 39.84             | 21.10       | 60.94          | 122.20         | 61.26       | Horizontal   |
| 5855.00                                                                                                                                                                               | 39.81             | 21.15       | 60.96          | 110.80         | 49.84       | Horizontal   |
| 5875.00                                                                                                                                                                               | 39.07             | 21.36       | 60.43          | 105.20         | 44.77       | Horizontal   |
| 5925.00                                                                                                                                                                               | 39.34             | 21.70       | 61.04          | 68.20          | 7.16        | Horizontal   |
| 11650.00                                                                                                                                                                              | 46.47             | 2.00        | 48.47          | 74.00          | 25.53       | Horizontal   |
| Detector: Average Value                                                                                                                                                               |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 11650.00                                                                                                                                                                              | 36.76             | 2.00        | 38.76          | 54.00          | 15.24       | Vertical     |
| 11650.00                                                                                                                                                                              | 37.72             | 2.00        | 39.72          | 54.00          | 14.28       | Horizontal   |
| <b>Remark:</b><br>1. Level = Reading + Factor.<br>2. Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report. |                   |             |                |                |             |              |

| Band 4: 5725 MHz - 5825 MHz, 802.11n-HT20 – MIMO                                                                                                                                      |                   |             |                |                |             |              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------|----------------|----------------|-------------|--------------|
| Test channel: Lowest channel                                                                                                                                                          |                   |             |                |                |             |              |
| Detector: Peak Value                                                                                                                                                                  |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 5650.00                                                                                                                                                                               | 41.36             | 20.81       | 62.17          | 68.20          | 6.03        | Vertical     |
| 5700.00                                                                                                                                                                               | 40.44             | 21.58       | 62.02          | 105.20         | 43.18       | Vertical     |
| 5720.00                                                                                                                                                                               | 48.67             | 21.35       | 70.02          | 110.80         | 40.78       | Vertical     |
| 5725.00                                                                                                                                                                               | 56.65             | 21.29       | 77.94          | 122.20         | 44.26       | Vertical     |
| 11490.00                                                                                                                                                                              | 46.49             | 2.44        | 48.93          | 74.00          | 25.07       | Vertical     |
| 5650.00                                                                                                                                                                               | 39.83             | 20.81       | 60.64          | 68.20          | 7.56        | Horizontal   |
| 5700.00                                                                                                                                                                               | 40.41             | 21.58       | 61.99          | 105.20         | 43.21       | Horizontal   |
| 5720.00                                                                                                                                                                               | 41.19             | 21.35       | 62.54          | 110.80         | 48.26       | Horizontal   |
| 5725.00                                                                                                                                                                               | 48.02             | 21.29       | 69.31          | 122.20         | 52.89       | Horizontal   |
| 11490.00                                                                                                                                                                              | 45.19             | 2.44        | 47.63          | 74.00          | 26.37       | Horizontal   |
| Detector: Average Value                                                                                                                                                               |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 11490.00                                                                                                                                                                              | 37.77             | 2.44        | 40.21          | 54.00          | 13.79       | Vertical     |
| 11490.00                                                                                                                                                                              | 36.64             | 2.44        | 39.08          | 54.00          | 14.92       | Horizontal   |
| Test channel: Middle channel                                                                                                                                                          |                   |             |                |                |             |              |
| Detector: Peak Value                                                                                                                                                                  |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 11570.00                                                                                                                                                                              | 46.15             | 2.74        | 48.89          | 74.00          | 25.11       | Vertical     |
| 11570.00                                                                                                                                                                              | 45.07             | 2.74        | 47.81          | 74.00          | 26.19       | Horizontal   |
| Detector: Average Value                                                                                                                                                               |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 11570.00                                                                                                                                                                              | 37.41             | 2.74        | 40.15          | 54.00          | 13.85       | Vertical     |
| 11570.00                                                                                                                                                                              | 36.05             | 2.74        | 38.79          | 54.00          | 15.21       | Horizontal   |
| <b>Remark:</b><br>1. Level = Reading + Factor.<br>2. Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report. |                   |             |                |                |             |              |

| Test channel: Highest channel                                                                                                                                                         |                   |             |                |                |             |              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------|----------------|----------------|-------------|--------------|
| Detector: Peak Value                                                                                                                                                                  |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 5850.00                                                                                                                                                                               | 39.86             | 21.10       | 60.96          | 122.20         | 61.24       | Vertical     |
| 5855.00                                                                                                                                                                               | 38.95             | 21.15       | 60.10          | 110.80         | 50.70       | Vertical     |
| 5875.00                                                                                                                                                                               | 39.99             | 21.36       | 61.35          | 105.20         | 43.85       | Vertical     |
| 5925.00                                                                                                                                                                               | 40.14             | 21.70       | 61.84          | 68.20          | 6.36        | Vertical     |
| 11650.00                                                                                                                                                                              | 46.42             | 2.00        | 48.42          | 74.00          | 25.58       | Vertical     |
| 5850.00                                                                                                                                                                               | 39.53             | 21.10       | 60.63          | 122.20         | 61.57       | Horizontal   |
| 5855.00                                                                                                                                                                               | 39.51             | 21.15       | 60.66          | 110.80         | 50.14       | Horizontal   |
| 5875.00                                                                                                                                                                               | 39.10             | 21.36       | 60.46          | 105.20         | 44.74       | Horizontal   |
| 5925.00                                                                                                                                                                               | 39.15             | 21.70       | 60.85          | 68.20          | 7.35        | Horizontal   |
| 11650.00                                                                                                                                                                              | 45.47             | 2.00        | 47.47          | 74.00          | 26.53       | Horizontal   |
| Detector: Average Value                                                                                                                                                               |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 11650.00                                                                                                                                                                              | 37.59             | 2.00        | 39.59          | 54.00          | 14.41       | Vertical     |
| 11650.00                                                                                                                                                                              | 36.27             | 2.00        | 38.27          | 54.00          | 15.73       | Horizontal   |
| <b>Remark:</b><br>1. Level = Reading + Factor.<br>2. Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report. |                   |             |                |                |             |              |

| Band 4: 5725 MHz - 5825 MHz, 802.11n-HT40 – MIMO                                                                                                                                      |                   |             |                |                |             |              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------|----------------|----------------|-------------|--------------|
| Test channel: Lowest channel                                                                                                                                                          |                   |             |                |                |             |              |
| Detector: Peak Value                                                                                                                                                                  |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 5650.00                                                                                                                                                                               | 40.67             | 20.81       | 61.48          | 68.20          | 6.72        | Vertical     |
| 5700.00                                                                                                                                                                               | 40.56             | 21.58       | 62.14          | 105.20         | 43.06       | Vertical     |
| 5720.00                                                                                                                                                                               | 40.69             | 21.35       | 62.04          | 110.80         | 48.76       | Vertical     |
| 5725.00                                                                                                                                                                               | 40.61             | 21.29       | 61.90          | 122.20         | 60.30       | Vertical     |
| 11510.00                                                                                                                                                                              | 45.76             | 2.60        | 48.36          | 74.00          | 25.64       | Vertical     |
| 5650.00                                                                                                                                                                               | 40.04             | 20.81       | 60.85          | 68.20          | 7.35        | Horizontal   |
| 5700.00                                                                                                                                                                               | 41.34             | 21.58       | 62.92          | 105.20         | 42.28       | Horizontal   |
| 5720.00                                                                                                                                                                               | 40.30             | 21.35       | 61.65          | 110.80         | 49.15       | Horizontal   |
| 5725.00                                                                                                                                                                               | 40.75             | 21.29       | 62.04          | 122.20         | 60.16       | Horizontal   |
| 11510.00                                                                                                                                                                              | 45.74             | 2.60        | 48.34          | 74.00          | 25.66       | Horizontal   |
| Detector: Average Value                                                                                                                                                               |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 11510.00                                                                                                                                                                              | 37.03             | 2.60        | 39.63          | 54.00          | 14.37       | Vertical     |
| 11510.00                                                                                                                                                                              | 36.53             | 2.60        | 39.13          | 54.00          | 14.87       | Horizontal   |
| Test channel: Highest channel                                                                                                                                                         |                   |             |                |                |             |              |
| Detector: Peak Value                                                                                                                                                                  |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 5850.00                                                                                                                                                                               | 39.98             | 21.10       | 61.08          | 122.20         | 61.12       | Vertical     |
| 5855.00                                                                                                                                                                               | 40.00             | 21.15       | 61.15          | 110.80         | 49.65       | Vertical     |
| 5875.00                                                                                                                                                                               | 39.30             | 21.36       | 60.66          | 105.20         | 44.54       | Vertical     |
| 5925.00                                                                                                                                                                               | 39.07             | 21.70       | 60.77          | 68.20          | 7.43        | Vertical     |
| 11590.00                                                                                                                                                                              | 45.38             | 2.73        | 48.11          | 74.00          | 25.89       | Vertical     |
| 5850.00                                                                                                                                                                               | 39.68             | 21.10       | 60.78          | 122.20         | 61.42       | Horizontal   |
| 5855.00                                                                                                                                                                               | 40.34             | 21.15       | 61.49          | 110.80         | 49.31       | Horizontal   |
| 5875.00                                                                                                                                                                               | 38.85             | 21.36       | 60.21          | 105.20         | 44.99       | Horizontal   |
| 5925.00                                                                                                                                                                               | 39.50             | 21.70       | 61.20          | 68.20          | 7.00        | Horizontal   |
| 11590.00                                                                                                                                                                              | 45.45             | 2.73        | 48.18          | 74.00          | 25.82       | Horizontal   |
| Detector: Average Value                                                                                                                                                               |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 11590.00                                                                                                                                                                              | 36.76             | 2.73        | 39.49          | 54.00          | 14.51       | Vertical     |
| 11590.00                                                                                                                                                                              | 37.00             | 2.73        | 39.73          | 54.00          | 14.27       | Horizontal   |
| <b>Remark:</b><br>1. Level = Reading + Factor.<br>2. Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report. |                   |             |                |                |             |              |

| Band 4: 5725 MHz - 5825 MHz, 8802.11ac-VHT20 – MIMO                                                                                                                                   |                   |             |                |                |             |              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------|----------------|----------------|-------------|--------------|
| Test channel: Lowest channel                                                                                                                                                          |                   |             |                |                |             |              |
| Detector: Peak Value                                                                                                                                                                  |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 5650.00                                                                                                                                                                               | 40.21             | 20.81       | 61.02          | 68.20          | 7.18        | Vertical     |
| 5700.00                                                                                                                                                                               | 40.18             | 21.58       | 61.76          | 105.20         | 43.44       | Vertical     |
| 5720.00                                                                                                                                                                               | 39.98             | 21.35       | 61.33          | 110.80         | 49.47       | Vertical     |
| 5725.00                                                                                                                                                                               | 39.86             | 21.29       | 61.15          | 122.20         | 61.05       | Vertical     |
| 11490.00                                                                                                                                                                              | 46.17             | 2.44        | 48.61          | 74.00          | 25.39       | Vertical     |
| 5650.00                                                                                                                                                                               | 40.11             | 20.81       | 60.92          | 68.20          | 7.28        | Horizontal   |
| 5700.00                                                                                                                                                                               | 40.55             | 21.58       | 62.13          | 105.20         | 43.07       | Horizontal   |
| 5720.00                                                                                                                                                                               | 39.94             | 21.35       | 61.29          | 110.80         | 49.51       | Horizontal   |
| 5725.00                                                                                                                                                                               | 40.57             | 21.29       | 61.86          | 122.20         | 60.34       | Horizontal   |
| 11490.00                                                                                                                                                                              | 45.36             | 2.44        | 47.80          | 74.00          | 26.20       | Horizontal   |
| Detector: Average Value                                                                                                                                                               |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 11490.00                                                                                                                                                                              | 37.18             | 2.44        | 39.62          | 54.00          | 14.38       | Vertical     |
| 11490.00                                                                                                                                                                              | 36.68             | 2.44        | 39.12          | 54.00          | 14.88       | Horizontal   |
| Test channel: Middle channel                                                                                                                                                          |                   |             |                |                |             |              |
| Detector: Peak Value                                                                                                                                                                  |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 11570.00                                                                                                                                                                              | 46.26             | 2.74        | 49.00          | 74.00          | 25.00       | Vertical     |
| 11570.00                                                                                                                                                                              | 45.62             | 2.74        | 48.36          | 74.00          | 25.64       | Horizontal   |
| Detector: Average Value                                                                                                                                                               |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 11570.00                                                                                                                                                                              | 36.70             | 2.74        | 39.44          | 54.00          | 14.56       | Vertical     |
| 11570.00                                                                                                                                                                              | 36.16             | 2.74        | 38.90          | 54.00          | 15.10       | Horizontal   |
| <b>Remark:</b><br>1. Level = Reading + Factor.<br>2. Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report. |                   |             |                |                |             |              |

| Test channel: Highest channel                                                                                                                                                         |                   |             |                |                |             |              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------|----------------|----------------|-------------|--------------|
| Detector: Peak Value                                                                                                                                                                  |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 5850.00                                                                                                                                                                               | 40.14             | 21.10       | 61.24          | 122.20         | 60.96       | Vertical     |
| 5855.00                                                                                                                                                                               | 39.66             | 21.15       | 60.81          | 110.80         | 49.99       | Vertical     |
| 5875.00                                                                                                                                                                               | 39.20             | 21.36       | 60.56          | 105.20         | 44.64       | Vertical     |
| 5925.00                                                                                                                                                                               | 39.92             | 21.70       | 61.62          | 68.20          | 6.58        | Vertical     |
| 11650.00                                                                                                                                                                              | 46.54             | 2.00        | 48.54          | 74.00          | 25.46       | Vertical     |
| 5850.00                                                                                                                                                                               | 39.94             | 21.10       | 61.04          | 122.20         | 61.16       | Horizontal   |
| 5855.00                                                                                                                                                                               | 40.02             | 21.15       | 61.17          | 110.80         | 49.63       | Horizontal   |
| 5875.00                                                                                                                                                                               | 38.85             | 21.36       | 60.21          | 105.20         | 44.99       | Horizontal   |
| 5925.00                                                                                                                                                                               | 39.70             | 21.70       | 61.40          | 68.20          | 6.80        | Horizontal   |
| 11650.00                                                                                                                                                                              | 45.25             | 2.00        | 47.25          | 74.00          | 26.75       | Horizontal   |
| Detector: Average Value                                                                                                                                                               |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 11650.00                                                                                                                                                                              | 37.86             | 2.00        | 39.86          | 54.00          | 14.14       | Vertical     |
| 11650.00                                                                                                                                                                              | 36.17             | 2.00        | 38.17          | 54.00          | 15.83       | Horizontal   |
| <b>Remark:</b><br>1. Level = Reading + Factor.<br>2. Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report. |                   |             |                |                |             |              |

| Band 4: 5725 MHz - 5825 MHz, 802.11ac-VHT40 – MIMO                                                                                                                                    |                   |             |                |                |             |              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------|----------------|----------------|-------------|--------------|
| Test channel: Lowest channel                                                                                                                                                          |                   |             |                |                |             |              |
| Detector: Peak Value                                                                                                                                                                  |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 5650.00                                                                                                                                                                               | 40.85             | 20.81       | 61.66          | 68.20          | 6.54        | Vertical     |
| 5700.00                                                                                                                                                                               | 41.57             | 21.58       | 63.15          | 105.20         | 42.05       | Vertical     |
| 5720.00                                                                                                                                                                               | 40.53             | 21.35       | 61.88          | 110.80         | 48.92       | Vertical     |
| 5725.00                                                                                                                                                                               | 40.22             | 21.29       | 61.51          | 122.20         | 60.69       | Vertical     |
| 11510.00                                                                                                                                                                              | 46.23             | 2.60        | 48.83          | 74.00          | 25.17       | Vertical     |
| 5650.00                                                                                                                                                                               | 40.43             | 20.81       | 61.24          | 68.20          | 6.96        | Horizontal   |
| 5700.00                                                                                                                                                                               | 40.66             | 21.58       | 62.24          | 105.20         | 42.96       | Horizontal   |
| 5720.00                                                                                                                                                                               | 41.15             | 21.35       | 62.50          | 110.80         | 48.30       | Horizontal   |
| 5725.00                                                                                                                                                                               | 40.14             | 21.29       | 61.43          | 122.20         | 60.77       | Horizontal   |
| 11510.00                                                                                                                                                                              | 45.58             | 2.60        | 48.18          | 74.00          | 25.82       | Horizontal   |
| Detector: Average Value                                                                                                                                                               |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 11510.00                                                                                                                                                                              | 37.14             | 2.60        | 39.74          | 54.00          | 14.26       | Vertical     |
| 11510.00                                                                                                                                                                              | 36.85             | 2.60        | 39.45          | 54.00          | 14.55       | Horizontal   |
| Test channel: Highest channel                                                                                                                                                         |                   |             |                |                |             |              |
| Detector: Peak Value                                                                                                                                                                  |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 5850.00                                                                                                                                                                               | 39.62             | 21.10       | 60.72          | 122.20         | 61.48       | Vertical     |
| 5855.00                                                                                                                                                                               | 39.47             | 21.15       | 60.62          | 110.80         | 50.18       | Vertical     |
| 5875.00                                                                                                                                                                               | 40.07             | 21.36       | 61.43          | 105.20         | 43.77       | Vertical     |
| 5925.00                                                                                                                                                                               | 39.25             | 21.70       | 60.95          | 68.20          | 7.25        | Vertical     |
| 11590.00                                                                                                                                                                              | 45.75             | 2.73        | 48.48          | 74.00          | 25.52       | Vertical     |
| 5850.00                                                                                                                                                                               | 39.40             | 21.10       | 60.50          | 122.20         | 61.70       | Horizontal   |
| 5855.00                                                                                                                                                                               | 39.75             | 21.15       | 60.90          | 110.80         | 49.90       | Horizontal   |
| 5875.00                                                                                                                                                                               | 39.91             | 21.36       | 61.27          | 105.20         | 43.93       | Horizontal   |
| 5925.00                                                                                                                                                                               | 38.97             | 21.70       | 60.67          | 68.20          | 7.53        | Horizontal   |
| 11590.00                                                                                                                                                                              | 45.98             | 2.73        | 48.71          | 74.00          | 25.29       | Horizontal   |
| Detector: Average Value                                                                                                                                                               |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 11590.00                                                                                                                                                                              | 37.04             | 2.73        | 39.77          | 54.00          | 14.23       | Vertical     |
| 11590.00                                                                                                                                                                              | 36.88             | 2.73        | 39.61          | 54.00          | 14.39       | Horizontal   |
| <b>Remark:</b><br>1. Level = Reading + Factor.<br>2. Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report. |                   |             |                |                |             |              |

| Band 4: 5725 MHz - 5825 MHz, 802.11ac-VHT80 – MIMO                                                                                                                                    |                   |             |                |                |             |              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------|----------------|----------------|-------------|--------------|
| Test channel: Lowest channel                                                                                                                                                          |                   |             |                |                |             |              |
| Detector: Peak Value                                                                                                                                                                  |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 5650.00                                                                                                                                                                               | 46.24             | 20.81       | 67.05          | 68.20          | 1.15        | Vertical     |
| 5700.00                                                                                                                                                                               | 40.67             | 21.58       | 62.25          | 105.20         | 42.95       | Vertical     |
| 5720.00                                                                                                                                                                               | 39.77             | 21.35       | 61.12          | 110.80         | 49.68       | Vertical     |
| 5725.00                                                                                                                                                                               | 40.54             | 21.29       | 61.83          | 122.20         | 60.37       | Vertical     |
| 5850.00                                                                                                                                                                               | 40.43             | 21.10       | 61.53          | 122.20         | 60.67       | Vertical     |
| 5855.00                                                                                                                                                                               | 39.24             | 21.15       | 60.39          | 110.80         | 50.41       | Vertical     |
| 5875.00                                                                                                                                                                               | 40.32             | 21.36       | 61.68          | 105.20         | 43.52       | Vertical     |
| 5925.00                                                                                                                                                                               | 39.59             | 21.70       | 61.29          | 68.20          | 6.91        | Vertical     |
| 11550.00                                                                                                                                                                              | 39.24             | 2.74        | 41.98          | 74.00          | 32.02       | Vertical     |
| 5650.00                                                                                                                                                                               | 41.66             | 20.81       | 62.47          | 68.20          | 5.73        | Horizontal   |
| 5700.00                                                                                                                                                                               | 40.68             | 21.58       | 62.26          | 105.20         | 42.94       | Horizontal   |
| 5720.00                                                                                                                                                                               | 40.28             | 21.35       | 61.63          | 110.80         | 49.17       | Horizontal   |
| 5725.00                                                                                                                                                                               | 39.98             | 21.29       | 61.27          | 122.20         | 60.93       | Horizontal   |
| 5850.00                                                                                                                                                                               | 39.05             | 21.10       | 60.15          | 122.20         | 62.05       | Horizontal   |
| 5855.00                                                                                                                                                                               | 39.60             | 21.15       | 60.75          | 110.80         | 50.05       | Horizontal   |
| 5875.00                                                                                                                                                                               | 38.57             | 21.36       | 59.93          | 105.20         | 45.27       | Horizontal   |
| 5925.00                                                                                                                                                                               | 38.96             | 21.70       | 60.66          | 68.20          | 7.54        | Horizontal   |
| 11550.00                                                                                                                                                                              | 45.42             | 2.74        | 48.16          | 74.00          | 25.84       | Horizontal   |
| Detector: Average Value                                                                                                                                                               |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 11550.00                                                                                                                                                                              | 37.23             | 2.74        | 39.97          | 54.00          | 14.03       | Vertical     |
| 11550.00                                                                                                                                                                              | 36.40             | 2.74        | 39.14          | 54.00          | 14.86       | Horizontal   |
| <b>Remark:</b><br>1. Level = Reading + Factor.<br>2. Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report. |                   |             |                |                |             |              |

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