



# FCC RF Test Report

## (U-NII)

**Report No.:** JYTSZ-R12-2400550  
**Applicant:** PCD, LLC  
**Address of Applicant:** 7651 Southland Blvd. Orlando. FL 32809 USA  
**Equipment Under Test (EUT)**  
Product Name: 4G LTE smart phone  
Model No.: P65R, P65 Bengal Max  
Trade Mark: N/A  
**FCC ID:** 2ALJJP65R  
**Applicable Standards:** FCC CFR Title 47 Part 15E (\$15.407)  
**Date of Sample Receipt:** 20 May, 2024  
**Date of Test:** 21 May, to 19 Jun., 2024  
**Date of Report Issued:** 20 Jun., 2024  
**Test Result:** PASS

**Tested by:**

*Vieta Zhang*  
Project Engineer

**Date:**

*20 Jun., 2024*

**Reviewed by:**

*W. Peng*  
Senior Engineer

**Date:**

*20 Jun., 2024*

**Approved by:**

*Junet Wei*  
Manager

**Date:**

*20 Jun., 2024*

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          | 20 Jun., 2024 | Original    |
|             |               |             |
|             |               |             |
|             |               |             |
|             |               |             |

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### 3 General Information

#### 3.1 Client Information

|               |                                                                                                            |
|---------------|------------------------------------------------------------------------------------------------------------|
| Applicant:    | PCD, LLC                                                                                                   |
| Address:      | 7651 Southland Blvd. Orlando. FL 32809 USA                                                                 |
| Manufacturer: | PCD, LLC                                                                                                   |
| Address:      | 7651 Southland Blvd. Orlando. FL 32809 USA                                                                 |
| Factory:      | SHENZHEN TOPWELL TECHNOLOGY CO., LTD                                                                       |
| Address:      | 11F, Block B West side, Building No. 7 Shenzhen Bay ECO-Technology Park, Nanshan District, Shenzhen, China |

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

|                                                  |                                                                                                                                                                                                                                             |
|--------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name:                                    | 4G LTE smart phone                                                                                                                                                                                                                          |
| Model No.:                                       | P65R, P65 Bengal Max                                                                                                                                                                                                                        |
| Operation Frequency:                             | Band 1: 5150 MHz - 5250 MHz                                                                                                                                                                                                                 |
| Channel Numbers:                                 | Band 1: 4 (802.11a, n-HT20, ac-VHT20)                                                                                                                                                                                                       |
|                                                  | Band 1: 2 (802.11n-HT40, ac-VHT40)                                                                                                                                                                                                          |
|                                                  | Band 1: 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:                                    | -3.18 dBi (declare by applicant)                                                                                                                                                                                                            |
| Antenna Transmit Mode:                           | SISO (1TX, 1RX)                                                                                                                                                                                                                             |
| Power Supply:                                    | Rechargeable Li-ion Battery DC3.85V, 4000mAh                                                                                                                                                                                                |
| AC Adapter:                                      | Model: BS05A-0501000US<br>Input: AC100-240V, 50/60Hz, 0.25A<br>Output: DC 5.0V, 1000mA                                                                                                                                                      |
| Remark:                                          | Model No.: P65R, P65 Bengal Max were identical inside, the electrical circuit design, layout, components used and internal wiring. The only difference is that "P65R" and " P65 Bengal Max" are shipped to difference markets respectively. |
| 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> For AC power line conducted emission and radiated spurious emission (below 1GHz), pre-scan 802.11a, n, ac modulation mode, found 802.11a modulation mode was worse case mode. The report only reflects the test data of worst mode. |                                                              |
| <b>Operating Environment:</b>                                                                                                                                                                                                                      |                                                              |
| Temperature:                                                                                                                                                                                                                                       | 15°C ~ 35°C                                                  |
| Humidity:                                                                                                                                                                                                                                          | 20 % ~ 75 % RH                                               |
| Atmospheric Pressure:                                                                                                                                                                                                                              | 1008 mbar                                                    |
| Voltage:                                                                                                                                                                                                                                           | Nominal: 3.85Vdc, Extreme: Low 3.50Vdc, High 4.40Vdc         |
| Test Engineer:                                                                                                                                                                                                                                     | Logan (Conducted measurement)<br>Alan (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))) |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|
| Conducted Emission for LISN (9kHz ~ 150kHz)                                                                                                                                                                                                                                                                          | 3.57 dB                                                 |
| Conducted Emission for LISN (150kHz ~ 30MHz)                                                                                                                                                                                                                                                                         | 3.14 dB                                                 |
| Radiated Emission (30MHz ~ 200MHz) (10m SAC)                                                                                                                                                                                                                                                                         | 4.3 dB                                                  |
| Radiated Emission (200MHz ~ 1000MHz) (10m SAC)                                                                                                                                                                                                                                                                       | 4.3 dB                                                  |
| Radiated Emission (1GHz ~ 6GHz) (3m FAR)                                                                                                                                                                                                                                                                             | 4.95 dB                                                 |
| Radiated Emission (6GHz ~ 18GHz) (3m FAR)                                                                                                                                                                                                                                                                            | 5.23 dB                                                 |
| Radiated Emission (18GHz ~ 40GHz) (3m FAR)                                                                                                                                                                                                                                                                           | 5.32 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 FAR):       |                 |                 |                |                         |                             |
|----------------------------------|-----------------|-----------------|----------------|-------------------------|-----------------------------|
| Test Equipment                   | Manufacturer    | Model No.       | Manage No.     | Cal. Date<br>(mm-dd-yy) | Cal. Due date<br>(mm-dd-yy) |
| 3m FAR                           | YUNYI           | 9m*6m*6m        | WXJ097         | 06-15-2023              | 06-14-2028                  |
| BiConiLog Antenna                | Schwarzbeck     | VULB9163        | WXJ097-2       | 07-13-2023              | 07-12-2024                  |
| Biconical Antenna                | Schwarzbeck     | VUBA9117        | WXJ002-1       | 07-02-2021              | 07-01-2024                  |
| Horn Antenna                     | Schwarzbeck     | BBHA9120D       | WXJ097-3       | 07-14-2023              | 07-13-2024                  |
| Horn Antenna                     | Schwarzbeck     | BBHA9120D       | WXJ002-3       | 12-28-2023              | 12-27-2024                  |
| Horn Antenna                     | Schwarzbeck     | BBHA9170        | WXJ002-5       | 12-28-2023              | 12-27-2024                  |
| Horn Antenna                     | Schwarzbeck     | BBHA9170        | WXJ002-6       | 12-28-2023              | 12-27-2024                  |
| Pre-amplifier<br>(30MHz ~ 1GHz)  | YUNYI           | PAM-310N        | WXJ097-5       | 05-14-2023              | 05-13-2024                  |
|                                  |                 |                 |                | 04-24-2024              | 04-23-2025                  |
| Pre-amplifier<br>(1GHz ~ 18GHz)  | YUNYI           | PAM-118N        | WXJ097-6       | 05-14-2023              | 05-13-2024                  |
|                                  |                 |                 |                | 04-24-2024              | 04-23-2025                  |
| Pre-amplifier<br>(18GHz ~ 40GHz) | RF System       | TRLA-180400G45B | WXJ002-7       | 12-28-2023              | 12-27-2024                  |
| EMI Test Receiver                | Rohde & Schwarz | ESCI3           | WXJ003         | 12-27-2023              | 12-26-2024                  |
| Spectrum Analyzer                | Rohde & Schwarz | FSP 30          | WXJ004         | 12-27-2023              | 12-26-2024                  |
| Spectrum Analyzer                | KEYSIGHT        | N9010B          | WXJ081-1       | 06-13-2023              | 06-12-2024                  |
|                                  |                 |                 |                | 06-12-2024              | 06-11-2025                  |
| Coaxial Cable<br>(30MHz ~ 1GHz)  | JYTSZ           | JYT3M-1G-NN-13M | WXG097-1       | 08-01-2023              | 07-31-2024                  |
| Coaxial Cable<br>(1GHz ~ 18GHz)  | JYTSZ           | JYT3M-18G-NN-8M | WXG097-2       | 08-01-2023              | 07-31-2024                  |
| Coaxial Cable<br>(18GHz ~ 40GHz) | JYTSZ           | JYT3M-40G-SS-8M | WXG097-3       | 08-01-2023              | 07-31-2024                  |
| High Band Reject Filter<br>Group | Tonscend        | JS0806-F        | WXJ089         | N/A                     |                             |
| Low Band Reject Filter<br>Group  | Tonscend        | JS0806-F        | WXJ097-4       | N/A                     |                             |
| Test Software                    | Tonscend        | TS+             | Version: 5.0.0 |                         |                             |

| Radiated Emission(10m SAC): |              |                  |                   |                      |                          |
|-----------------------------|--------------|------------------|-------------------|----------------------|--------------------------|
| Test Equipment              | Manufacturer | Model No.        | Manage No.        | Cal. Date (mm-dd-yy) | Cal. Due date (mm-dd-yy) |
| 10m SAC                     | ETS          | RFSD-100-F/A     | WXJ090            | 04-28-2021           | 04-27-2026               |
| BiConiLog Antenna           | SCHWARZBECK  | VULB 9168        | WXJ090-1          | 01-05-2024           | 01-04-2025               |
| BiConiLog Antenna           | SCHWARZBECK  | VULB 9168        | WXJ090-2          | 12-28-2023           | 12-27-2024               |
| EMI Test Receiver           | R&S          | ESR 3            | WXJ090-3          | 12-27-2023           | 12-26-2024               |
| EMI Test Receiver           | R&S          | ESR 3            | WXJ090-4          | 12-27-2023           | 12-26-2024               |
| Low Pre-amplifier           | Bost         | LNA 0920N        | WXJ090-6          | 12-27-2023           | 12-26-2024               |
| Low Pre-amplifier           | Bost         | LNA 0920N        | WXJ090-7          | 12-27-2023           | 12-26-2024               |
| Cable                       | Bost         | JYT10M-1G-NN-10M | WXG002-7          | 01-17-2024           | 01-16-2025               |
| Cable                       | Bost         | JYT10M-1G-NN-10M | WXG002-8          | 01-17-2024           | 01-16-2025               |
| Test Software               | R&S          | EMC32            | Version: 10.50.40 |                      |                          |

| 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           | 07-05-2023           | 07-04-2024               |
| LISN                              | Schwarzbeck     | NSLK 8127      | QCJ001-13          | 12-27-2023           | 12-26-2024               |
| LISN                              | Rohde & Schwarz | ESH3-Z5        | WXJ005-1           | 12-27-2023           | 12-26-2024               |
| LISN Coaxial Cable (9kHz ~ 30MHz) | JYTSZ           | JYTCE-1G-NN-2M | WXG003-1           | 01-17-2024           | 01-16-2025               |
| 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         | 11-01-2023           | 10-31-2024               |
| Temperature Humidity Chamber | ZHONG ZHI     | CZ-A-80D   | WXJ032-3         | 01-09-2023           | 01-08-2025               |
| Power Detector Box           | MWRFTTEST     | MW100-PSB  | WXJ007-4         | 09-25-2023           | 09-24-2024               |
| 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

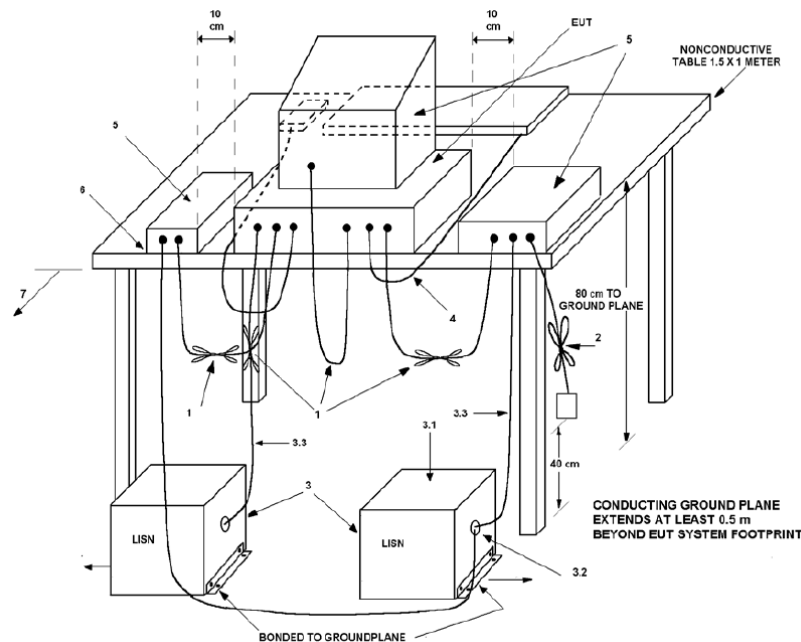
### 4.1 Test Channel

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            | /               | /               |

### 4.2 Test Setup

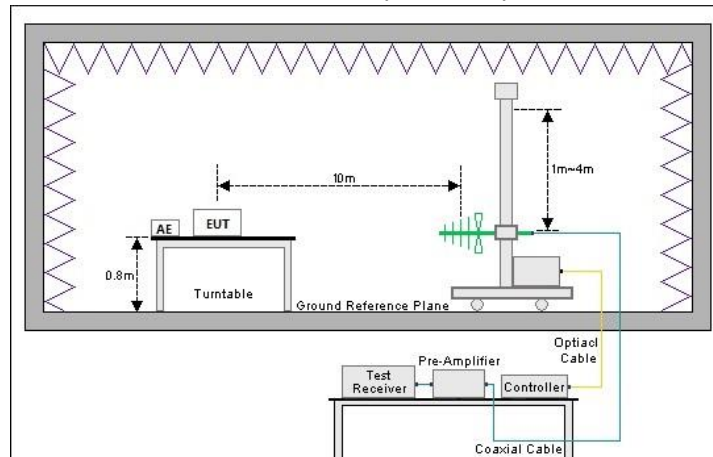
#### 1) Conducted emission measurement:



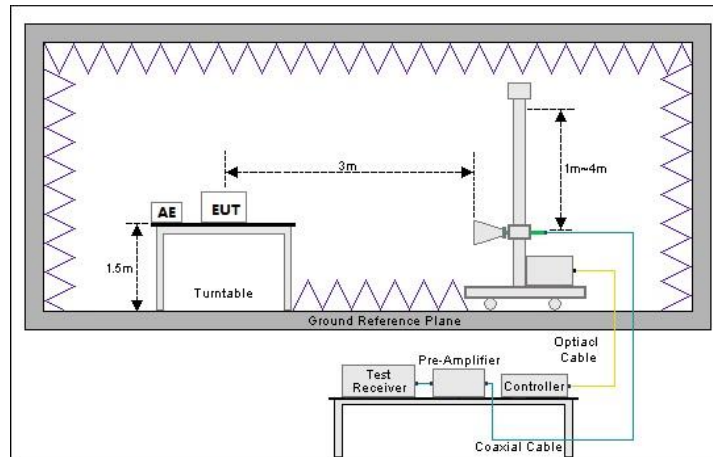
**Note:** The detailed descriptions please refer to Figure 8 of ANSI C63.4:2014.

## 2) Radiated emission measurement:

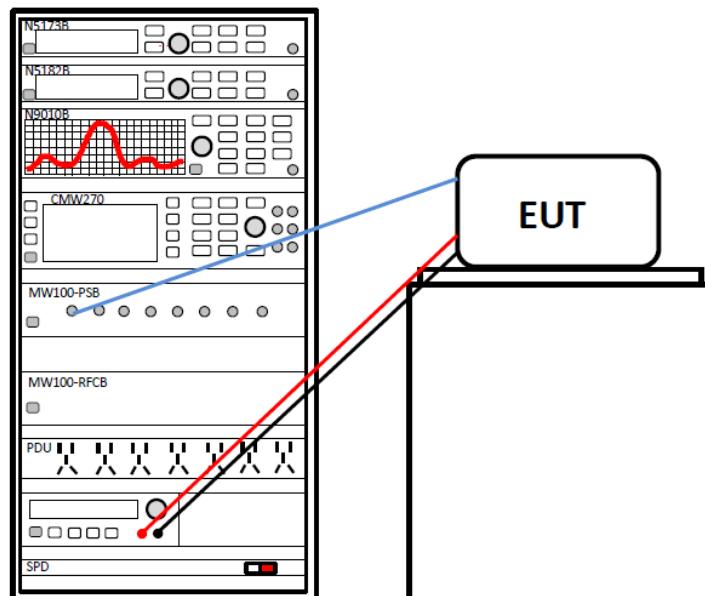
Below 1GHz (10m SAC)



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 1GHz:</b></p> <ol style="list-style-type: none"> <li>1. The EUT was placed on the tabletop of a rotating table 0.8 m the ground at a 10 m semi anechoic chamber. The measurement distance from the EUT to the receiving antenna is 10 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 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 data             | Result |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------|--------|
| Antenna Requirement                                                                                                                                                                                                                                          | 15.203                                                                            | See Section 5.2       | Pass   |
| AC Power Line Conducted Emission                                                                                                                                                                                                                             | 15.207<br>15.407 (b)(9)                                                           | See Section 5.3       | Pass   |
| Duty Cycle                                                                                                                                                                                                                                                   | ANSI C63.10-2013                                                                  | Appendix – 5.2G Wi-Fi | Pass   |
| Conducted Peak Output Power<br>Power Spectral Density                                                                                                                                                                                                        | 15.407 (a)(1)(iv)-(B1)                                                            | Appendix – 5.2G Wi-Fi | Pass   |
| 26dB Emission Bandwidth<br>99% Occupied Bandwidth                                                                                                                                                                                                            | 15.407 (a)(12)                                                                    | Appendix – 5.2G Wi-Fi | Pass   |
| 6dB Emission Bandwidth                                                                                                                                                                                                                                       | 15.407 (e)                                                                        | Appendix – 5.2G Wi-Fi | Pass   |
| Unwanted Emissions                                                                                                                                                                                                                                           | 15.205<br>15.209<br>15.407 (b)(1) -(B1), (9), (10)                                | See Section 5.4       | Pass   |
| Frequency Stability                                                                                                                                                                                                                                          | 15.407 (g)                                                                        | Appendix – 5.2G Wi-Fi | Pass   |
| Dynamic frequency selection                                                                                                                                                                                                                                  | 15.407 (h)(2)                                                                     | 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

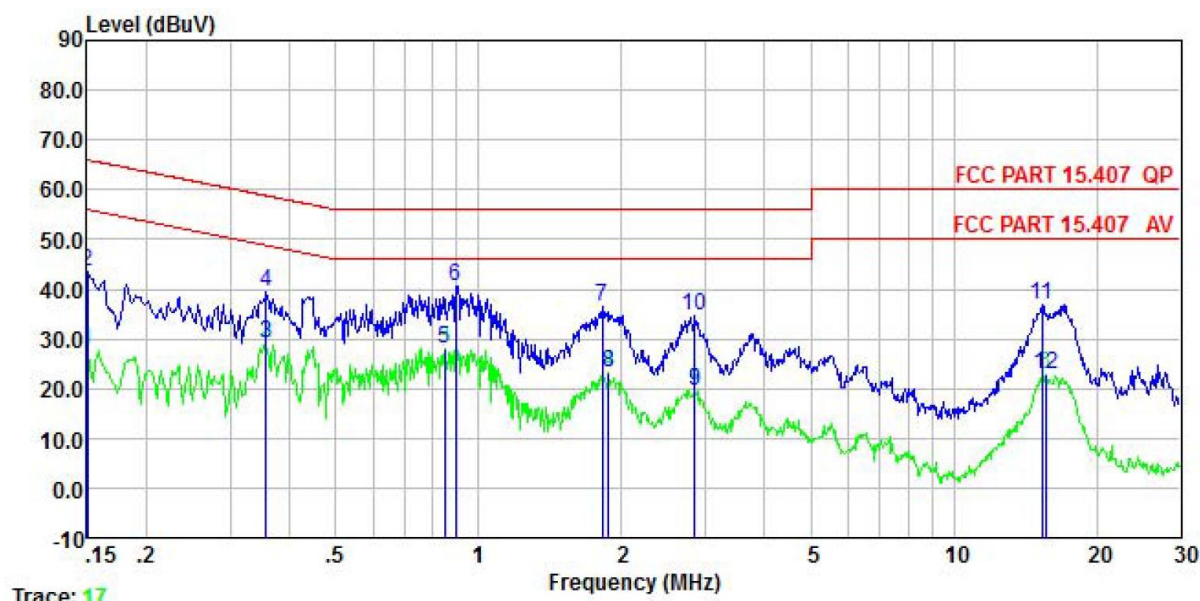
| Test items                                                | Limit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                |                |  |            |         |            |                                |                                |         |            |          |        |      |            |           |      |      |            |            |      |      |            |           |                     |  |         |       |             |      |      |
|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------|--|------------|---------|------------|--------------------------------|--------------------------------|---------|------------|----------|--------|------|------------|-----------|------|------|------------|------------|------|------|------------|-----------|---------------------|--|---------|-------|-------------|------|------|
| 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>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                |                |  |            |         |            |                                |                                |         |            |          |        |      |            |           |      |      |            |            |      |      |            |           |                     |  |         |       |             |      |      |
| 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) 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 |
| 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. |                              |
| <b>E.U.T Antenna:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                              |
| The Wi-Fi antenna is an internal antenna which cannot replace by end-user, the best case gain of the antenna is -3.18 dBi. See product internal photos for details.                                                                                                                                                                                                                                                                                                       |                              |

### 5.3 AC Power Line Conducted Emission

|                 |                    |                |               |
|-----------------|--------------------|----------------|---------------|
| Product name:   | 4G LTE smart phone | Product model: | P65R          |
| 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     |                |               |



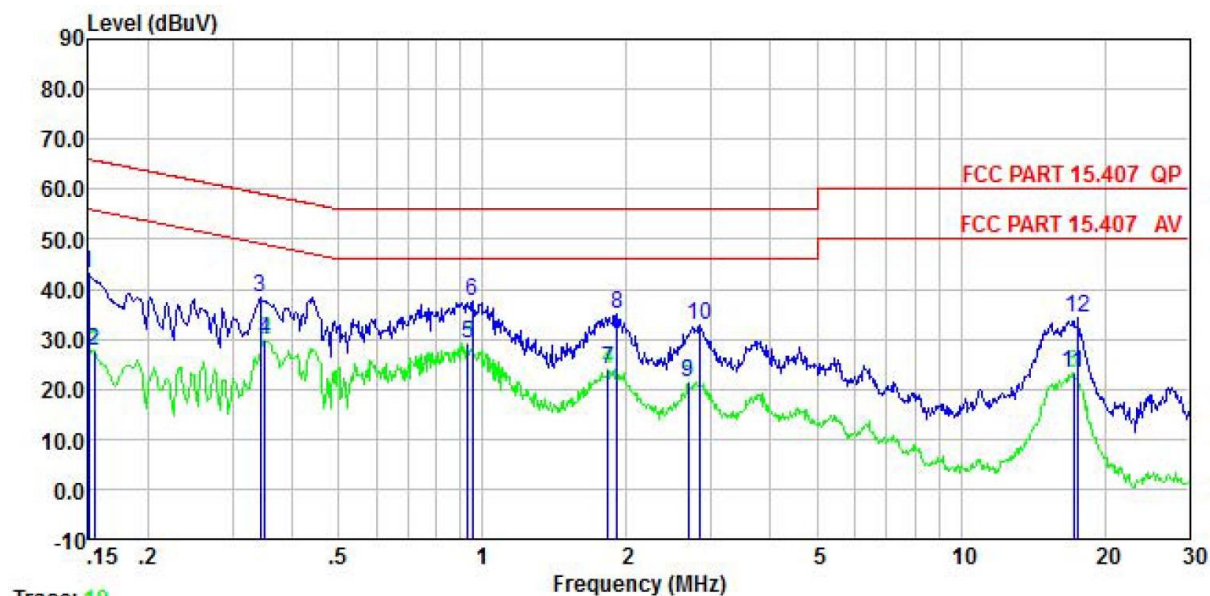
|    | Freq   | Read Level | LISN Factor | Aux Factor | Aux2 Factor | Cable Loss | Level | Limit Line | Over Limit | Remark  |
|----|--------|------------|-------------|------------|-------------|------------|-------|------------|------------|---------|
|    | MHz    | dBuV       | dB          | dB         | dB          | dB         | dBuV  | dBuV       | dB         |         |
| 1  | 0.150  | 17.69      | 0.20        | 0.00       | 9.88        | 0.01       | 27.78 | 56.00      | -28.22     | Average |
| 2  | 0.150  | 33.35      | 0.20        | 0.00       | 9.88        | 0.01       | 43.44 | 66.00      | -22.56     | QP      |
| 3  | 0.358  | 19.13      | 0.20        | 0.00       | 9.88        | 0.02       | 29.23 | 48.78      | -19.55     | Average |
| 4  | 0.358  | 29.19      | 0.20        | 0.00       | 9.88        | 0.02       | 39.29 | 58.78      | -19.49     | QP      |
| 5  | 0.848  | 18.04      | 0.20        | 0.00       | 9.88        | 0.04       | 28.16 | 46.00      | -17.84     | Average |
| 6  | 0.894  | 30.60      | 0.20        | 0.00       | 9.88        | 0.04       | 40.72 | 56.00      | -15.28     | QP      |
| 7  | 1.819  | 26.05      | 0.20        | 0.00       | 9.88        | 0.19       | 36.32 | 56.00      | -19.68     | QP      |
| 8  | 1.878  | 12.97      | 0.20        | 0.00       | 9.88        | 0.19       | 23.24 | 46.00      | -22.76     | Average |
| 9  | 2.854  | 9.47       | 0.20        | 0.00       | 9.89        | 0.09       | 19.65 | 46.00      | -26.35     | Average |
| 10 | 2.854  | 24.31      | 0.20        | 0.00       | 9.89        | 0.09       | 34.49 | 56.00      | -21.51     | QP      |
| 11 | 15.307 | 26.54      | 0.31        | 0.00       | 9.93        | 0.15       | 36.93 | 60.00      | -23.07     | QP      |
| 12 | 15.635 | 12.41      | 0.31        | 0.00       | 9.93        | 0.15       | 22.80 | 50.00      | -27.20     | Average |

#### Remark:

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



|                 |                    |                |               |
|-----------------|--------------------|----------------|---------------|
| Product name:   | 4G LTE smart phone | Product model: | P65R          |
| 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     |                |               |



|       | 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  | 33.04  | 0.20   | 0.00   | 9.88  | 0.01  | 43.13 | 66.00 | -22.87 QP      |
| 2     | 0.154  | 17.67  | 0.20   | 0.00   | 9.88  | 0.01  | 27.76 | 55.78 | -28.02 Average |
| 3     | 0.343  | 28.18  | 0.20   | 0.00   | 9.88  | 0.02  | 38.28 | 59.13 | -20.85 QP      |
| 4     | 0.350  | 19.68  | 0.20   | 0.00   | 9.88  | 0.02  | 29.78 | 48.96 | -19.18 Average |
| 5     | 0.933  | 18.96  | 0.20   | 0.00   | 9.88  | 0.04  | 29.08 | 46.00 | -16.92 Average |
| 6     | 0.953  | 27.44  | 0.20   | 0.00   | 9.88  | 0.05  | 37.57 | 56.00 | -18.43 QP      |
| 7     | 1.829  | 13.55  | 0.29   | 0.00   | 9.88  | 0.19  | 23.91 | 46.00 | -22.09 Average |
| 8     | 1.908  | 24.53  | 0.29   | 0.00   | 9.88  | 0.20  | 34.90 | 56.00 | -21.10 QP      |
| 9     | 2.692  | 11.20  | 0.30   | 0.00   | 9.88  | 0.11  | 21.49 | 46.00 | -24.51 Average |
| 10    | 2.839  | 22.63  | 0.30   | 0.00   | 9.89  | 0.09  | 32.91 | 56.00 | -23.09 QP      |
| 11    | 17.199 | 12.73  | 0.40   | 0.00   | 9.94  | 0.15  | 23.22 | 50.00 | -26.78 Average |
| 12    | 17.568 | 23.94  | 0.40   | 0.00   | 9.95  | 0.15  | 34.44 | 60.00 | -25.56 QP      |

# Remark:

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

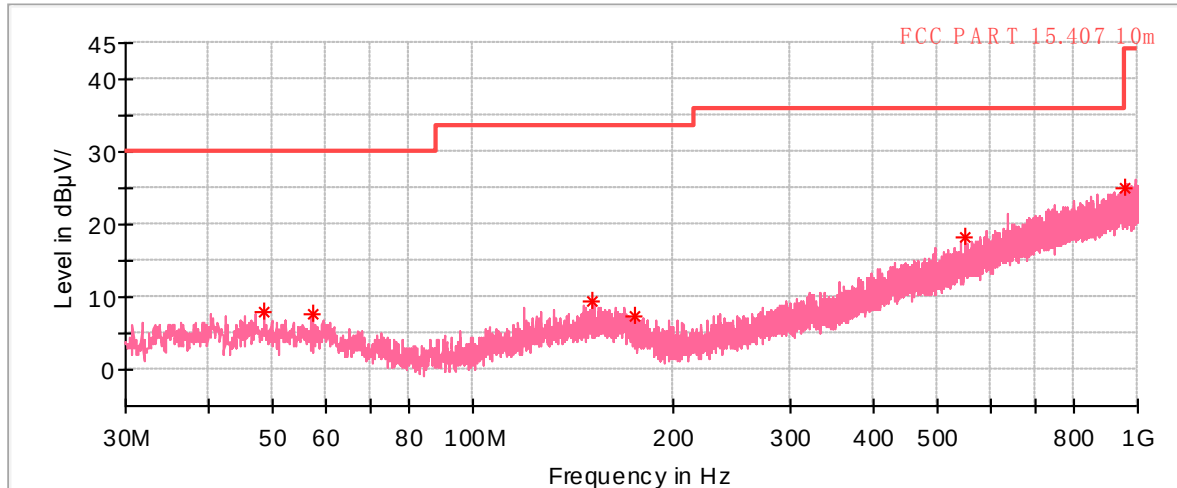


## 5.4 Unwanted Emissions

Below 1GHz:

|                 |                    |                |               |
|-----------------|--------------------|----------------|---------------|
| Product Name:   | 4G LTE smart phone | Product Model: | P65R          |
| Test By:        | Kiran Zeng         | Test mode:     | 5G Wi-Fi mode |
| Test Frequency: | 30 MHz ~ 1 GHz     | Polarization:  | Vertical      |
| Test Voltage:   | DC 3.85V           |                |               |

Full Spectrum



— Preview Result 2V-AVG    — Preview Result 1V-PK+    \* Critical\_Freqs AVG  
\* Critical\_Freqs PK+    — FCC PART 15.407 10m    ◆ Final\_Result QPK

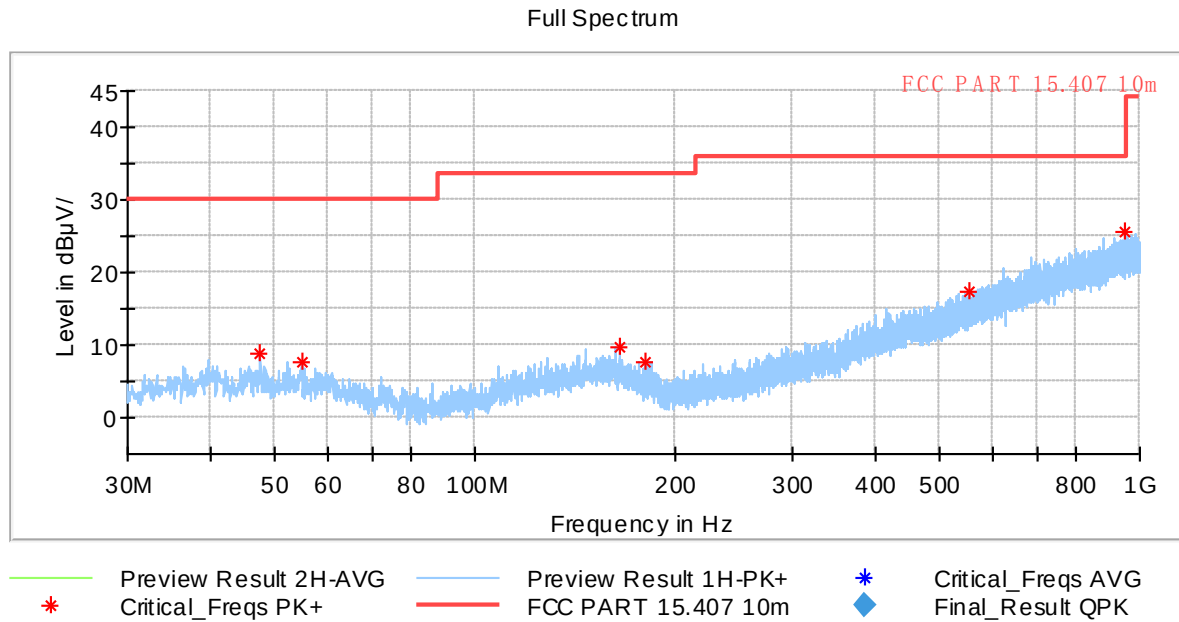
### Critical\_Freqs

| Frequency (MHz) | MaxPeak (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) | Comment              |
|-----------------|--------------------|------------------|-------------|-------------|-----|---------------|--------------|----------------------|
| 151.395500      | 9.30               | 33.50            | 24.20       | 100.0       | V   | 72.0          | -15.2        | 16:27:51 - 2024/5/24 |
| 175.645500      | 7.24               | 33.50            | 26.26       | 100.0       | V   | 155.0         | -16.7        | 16:27:51 - 2024/5/24 |
| 955.186000      | 25.11              | 36.00            | 10.89       | 100.0       | V   | 155.0         | -0.1         | 16:27:51 - 2024/5/24 |
| 548.222500      | 18.30              | 36.00            | 17.70       | 100.0       | V   | 161.0         | -7.9         | 16:27:51 - 2024/5/24 |
| 48.575500       | 7.95               | 30.00            | 22.05       | 100.0       | V   | 165.0         | -16.5        | 16:27:51 - 2024/5/24 |
| 57.257000       | 7.54               | 30.00            | 22.46       | 100.0       | V   | 182.0         | -16.7        | 16:27:51 - 2024/5/24 |

#### Remark:

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

|                 |                    |                |               |
|-----------------|--------------------|----------------|---------------|
| Product Name:   | 4G LTE smart phone | Product Model: | P65R          |
| Test By:        | Kiran Zeng         | Test mode:     | 5G Wi-Fi mode |
| Test Frequency: | 30 MHz ~ 1 GHz     | Polarization:  | Horizontal    |
| Test Voltage:   | DC 3.85V           |                |               |



### Critical\_Freqs

| Frequency (MHz) | MaxPeak (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) | Comment              |
|-----------------|--------------------|------------------|-------------|-------------|-----|---------------|--------------|----------------------|
| 47.508500       | 8.70               | 30.00            | 21.30       | 100.0       | H   | 23.0          | -16.5        | 16:24:41 - 2024/5/24 |
| 54.783500       | 7.55               | 30.00            | 22.45       | 100.0       | H   | 113.0         | -16.5        | 16:24:41 - 2024/5/24 |
| 164.975500      | 9.80               | 33.50            | 23.70       | 100.0       | H   | 267.0         | -15.6        | 16:24:41 - 2024/5/24 |
| 180.495500      | 7.77               | 33.50            | 25.73       | 100.0       | H   | 181.0         | -17.4        | 16:24:41 - 2024/5/24 |
| 552.005500      | 17.36              | 36.00            | 18.64       | 100.0       | H   | 267.0         | -7.8         | 16:24:41 - 2024/5/24 |
| 950.045000      | 25.52              | 36.00            | 10.48       | 100.0       | H   | 14.0          | -0.2         | 16:24:41 - 2024/5/24 |

#### Remark:

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

### Above 1GHz

| Band 1: 5150 MHz - 5250 MHz, 802.11a                                                                                                                                                  |                   |             |                |                |             |              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------|----------------|----------------|-------------|--------------|
| 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                                                                                                                                                                               | 69.95             | -6.26       | 63.69          | 74.00          | 10.31       | Vertical     |
| 10360.00                                                                                                                                                                              | 50.94             | 1.27        | 52.21          | 68.20          | 15.99       | Vertical     |
| 5150.00                                                                                                                                                                               | 65.41             | -6.26       | 59.15          | 74.00          | 14.85       | Horizontal   |
| 10360.00                                                                                                                                                                              | 51.74             | 1.27        | 53.01          | 68.20          | 15.19       | Horizontal   |
| Detector: Average Value                                                                                                                                                               |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 5150.00                                                                                                                                                                               | 54.85             | -6.26       | 48.59          | 54.00          | 5.41        | Vertical     |
| 5150.00                                                                                                                                                                               | 52.43             | -6.26       | 46.17          | 54.00          | 7.83        | 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                                                                                                                                                                              | 50.52             | 2.39        | 52.91          | 68.20          | 15.29       | Vertical     |
| 10400.00                                                                                                                                                                              | 50.79             | 2.39        | 53.18          | 68.20          | 15.02       | 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                                                                                                                                                                               | 60.25             | -6.32       | 53.93          | 74.00          | 20.07       | Vertical     |
| 10480.00                                                                                                                                                                              | 50.07             | 2.80        | 52.87          | 68.20          | 15.33       | Vertical     |
| 5350.00                                                                                                                                                                               | 59.36             | -6.32       | 53.04          | 74.00          | 20.96       | Horizontal   |
| 10480.00                                                                                                                                                                              | 51.37             | 2.80        | 54.17          | 68.20          | 14.03       | Horizontal   |
| Detector: Average Value                                                                                                                                                               |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 5350.00                                                                                                                                                                               | 48.39             | -6.32       | 42.07          | 54.00          | 11.93       | Vertical     |
| 5350.00                                                                                                                                                                               | 48.45             | -6.32       | 42.13          | 54.00          | 11.87       | 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                                                                                                                                             |                   |             |                |                |             |              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------|----------------|----------------|-------------|--------------|
| 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                                                                                                                                                                               | 72.95             | -6.26       | 66.69          | 74.00          | 7.31        | Vertical     |
| 10360.00                                                                                                                                                                              | 50.75             | 1.27        | 52.02          | 68.20          | 16.18       | Vertical     |
| 5150.00                                                                                                                                                                               | 67.15             | -6.26       | 60.89          | 74.00          | 13.11       | Horizontal   |
| 10360.00                                                                                                                                                                              | 50.49             | 1.27        | 51.76          | 68.20          | 16.44       | Horizontal   |
| Detector: Average Value                                                                                                                                                               |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 5150.00                                                                                                                                                                               | 55.29             | -6.26       | 49.03          | 54.00          | 4.97        | Vertical     |
| 5150.00                                                                                                                                                                               | 52.71             | -6.26       | 46.45          | 54.00          | 7.55        | 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                                                                                                                                                                              | 49.69             | 2.39        | 52.08          | 68.20          | 16.12       | Vertical     |
| 10400.00                                                                                                                                                                              | 51.44             | 2.39        | 53.83          | 68.20          | 14.37       | 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                                                                                                                                                                               | 59.53             | -6.32       | 53.21          | 74.00          | 20.79       | Vertical     |
| 10480.00                                                                                                                                                                              | 50.19             | 2.80        | 52.99          | 68.20          | 15.21       | Vertical     |
| 5350.00                                                                                                                                                                               | 60.68             | -6.32       | 54.36          | 74.00          | 19.64       | Horizontal   |
| 10480.00                                                                                                                                                                              | 51.11             | 2.80        | 53.91          | 68.20          | 14.29       | Horizontal   |
| Detector: Average Value                                                                                                                                                               |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 5350.00                                                                                                                                                                               | 48.43             | -6.32       | 42.11          | 54.00          | 11.89       | Vertical     |
| 5350.00                                                                                                                                                                               | 48.50             | -6.32       | 42.18          | 54.00          | 11.82       | 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                                                                                                                                             |                   |             |                |                |             |              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------|----------------|----------------|-------------|--------------|
| 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                                                                                                                                                                               | 70.62             | -6.26       | 64.36          | 74.00          | 9.64        | Vertical     |
| 10380.00                                                                                                                                                                              | 50.45             | 1.84        | 52.29          | 68.20          | 15.91       | Vertical     |
| 5150.00                                                                                                                                                                               | 65.11             | -6.26       | 58.85          | 74.00          | 15.15       | Horizontal   |
| 10380.00                                                                                                                                                                              | 51.27             | 1.84        | 53.11          | 68.20          | 15.09       | Horizontal   |
| Detector: Average Value                                                                                                                                                               |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 5150.00                                                                                                                                                                               | 56.53             | -6.26       | 50.27          | 54.00          | 3.73        | Vertical     |
| 5150.00                                                                                                                                                                               | 53.45             | -6.26       | 47.19          | 54.00          | 6.81        | 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                                                                                                                                                                               | 60.70             | -6.32       | 54.38          | 74.00          | 19.62       | Vertical     |
| 10460.00                                                                                                                                                                              | 49.83             | 1.65        | 51.48          | 68.20          | 16.72       | Vertical     |
| 5350.00                                                                                                                                                                               | 60.30             | -6.32       | 53.98          | 74.00          | 20.02       | Horizontal   |
| 10460.00                                                                                                                                                                              | 51.47             | 1.65        | 53.12          | 68.20          | 15.08       | Horizontal   |
| Detector: Average Value                                                                                                                                                               |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 5350.00                                                                                                                                                                               | 48.51             | -6.32       | 42.19          | 54.00          | 11.81       | Vertical     |
| 5350.00                                                                                                                                                                               | 48.49             | -6.32       | 42.17          | 54.00          | 11.83       | 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 1: 5150 MHz - 5250 MHz, 802.11ac-VHT20                                                                                                                                           |                   |             |                |                |             |              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------|----------------|----------------|-------------|--------------|
| 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                                                                                                                                                                               | 72.91             | -6.26       | 66.65          | 74.00          | 7.35        | Vertical     |
| 10360.00                                                                                                                                                                              | 50.87             | 1.27        | 52.14          | 68.20          | 16.06       | Vertical     |
| 5150.00                                                                                                                                                                               | 67.00             | -6.26       | 60.74          | 74.00          | 13.26       | Horizontal   |
| 10360.00                                                                                                                                                                              | 50.53             | 1.27        | 51.80          | 68.20          | 16.40       | Horizontal   |
| Detector: Average Value                                                                                                                                                               |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 5150.00                                                                                                                                                                               | 55.21             | -6.26       | 48.95          | 54.00          | 5.05        | Vertical     |
| 5150.00                                                                                                                                                                               | 52.73             | -6.26       | 46.47          | 54.00          | 7.53        | 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                                                                                                                                                                              | 49.43             | 2.39        | 51.82          | 68.20          | 16.38       | Vertical     |
| 10400.00                                                                                                                                                                              | 51.11             | 2.39        | 53.50          | 68.20          | 14.70       | 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                                                                                                                                                                               | 59.88             | -6.32       | 53.56          | 74.00          | 20.44       | Vertical     |
| 10480.00                                                                                                                                                                              | 50.24             | 2.80        | 53.04          | 68.20          | 15.16       | Vertical     |
| 5350.00                                                                                                                                                                               | 60.19             | -6.32       | 53.87          | 74.00          | 20.13       | Horizontal   |
| 10480.00                                                                                                                                                                              | 50.86             | 2.80        | 53.66          | 68.20          | 14.54       | Horizontal   |
| Detector: Average Value                                                                                                                                                               |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 5350.00                                                                                                                                                                               | 48.72             | -6.32       | 42.40          | 54.00          | 11.60       | Vertical     |
| 5350.00                                                                                                                                                                               | 48.48             | -6.32       | 42.16          | 54.00          | 11.84       | 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                                                                                                                                           |                   |             |                |                |             |              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------|----------------|----------------|-------------|--------------|
| 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                                                                                                                                                                               | 70.46             | -6.26       | 64.20          | 74.00          | 9.80        | Vertical     |
| 10380.00                                                                                                                                                                              | 50.52             | 1.84        | 52.36          | 68.20          | 15.84       | Vertical     |
| 5150.00                                                                                                                                                                               | 65.20             | -6.26       | 58.94          | 74.00          | 15.06       | Horizontal   |
| 10380.00                                                                                                                                                                              | 51.36             | 1.84        | 53.20          | 68.20          | 15.00       | Horizontal   |
| Detector: Average Value                                                                                                                                                               |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 5150.00                                                                                                                                                                               | 56.16             | -6.26       | 49.90          | 54.00          | 4.10        | Vertical     |
| 5150.00                                                                                                                                                                               | 53.77             | -6.26       | 47.51          | 54.00          | 6.49        | 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                                                                                                                                                                               | 60.88             | -6.32       | 54.56          | 74.00          | 19.44       | Vertical     |
| 10460.00                                                                                                                                                                              | 50.14             | 1.65        | 51.79          | 68.20          | 16.41       | Vertical     |
| 5350.00                                                                                                                                                                               | 59.83             | -6.32       | 53.51          | 74.00          | 20.49       | Horizontal   |
| 10460.00                                                                                                                                                                              | 51.81             | 1.65        | 53.46          | 68.20          | 14.74       | Horizontal   |
| Detector: Average Value                                                                                                                                                               |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 5350.00                                                                                                                                                                               | 48.05             | -6.32       | 41.73          | 54.00          | 12.27       | Vertical     |
| 5350.00                                                                                                                                                                               | 48.11             | -6.32       | 41.79          | 54.00          | 12.21       | 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. |                   |             |                |                |             |              |

| Band 1: 5150 MHz - 5250 MHz, 802.11ac-VHT80                                                                                                                                           |                   |             |                |                |             |              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------|----------------|----------------|-------------|--------------|
| 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                                                                                                                                                                               | 66.47             | -6.26       | 60.21          | 74.00          | 13.79       | Vertical     |
| 5350.00                                                                                                                                                                               | 59.22             | -6.32       | 52.90          | 74.00          | 21.1        | Vertical     |
| 10420.00                                                                                                                                                                              | 50.22             | 1.85        | 52.07          | 68.20          | 16.13       | Vertical     |
| 5150.00                                                                                                                                                                               | 63.70             | -6.26       | 57.44          | 74.00          | 16.56       | Horizontal   |
| 5350.00                                                                                                                                                                               | 59.17             | -6.32       | 52.85          | 74.00          | 21.15       | Horizontal   |
| 10420.00                                                                                                                                                                              | 51.73             | 1.85        | 53.58          | 68.20          | 14.62       | Horizontal   |
| Detector: Average Value                                                                                                                                                               |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 5150.00                                                                                                                                                                               | 55.60             | -6.26       | 49.34          | 54.00          | 4.66        | Vertical     |
| 5350.00                                                                                                                                                                               | 48.38             | -6.32       | 42.06          | 54.00          | 11.94       | Vertical     |
| 5150.00                                                                                                                                                                               | 52.96             | -6.26       | 46.70          | 54.00          | 7.3         | Horizontal   |
| 5350.00                                                                                                                                                                               | 48.43             | -6.32       | 42.11          | 54.00          | 11.89       | 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-----