

# RF Test Report

## For

**Applicant name:** Shenzhen Evview GPS Technology  
**Address:** Rm 201, building 1-A, Nankechuang Yuangu, Dalang, Longhua District, Shenzhen, China  
**EUT name:** Personl Mobile Alarm System  
**Brand name:** N/A  
**Model number:** EV-07BX-V  
**Series model number:** N/A  
**FCC ID:** 2AUMJEV-07BX-V

## Issued By

**Company name:** BTF Testing Lab (Shenzhen) Co., Ltd.  
**Address:** F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China

**Report number:** BTF250417R00101  
**Test standards:** FCC CFR Title 47 Part 15 Subpart C (§15.247)  
**Test conclusion:** Pass  
**Date of sample receipt:** 2025-04-17  
**Test date:** 2025-04-18 to 2025-05-12  
**Date of issue:** 2025-05-12  
**Test by:** Sean.He  
Sean.He / Tester

**Prepared by:** Chris Liu  
Chris Liu / Project engineer

**Approved by:**   
Qic Huang / EMC manager



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| Revision History                                                                                    |            |                   |
|-----------------------------------------------------------------------------------------------------|------------|-------------------|
| Version                                                                                             | Issue date | Revisions content |
| R_V0                                                                                                | 2025-05-12 | Original          |
|                                                                                                     |            |                   |
| <i>Note:</i><br><i>Once the revision has been made, then previous versions reports are invalid.</i> |            |                   |

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# 1 Introduction

## 1.1 Laboratory Location

|                |                                                                                                                                     |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Test location: | BTF Testing Lab (Shenzhen) Co., Ltd.                                                                                                |
| Address:       | F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China |
| Phone number:  | +86-0755-23146130                                                                                                                   |
| Fax number:    | +86-0755-23146130                                                                                                                   |

## 1.2 Laboratory Facility

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

- **FCC - Designation No.: CN1409**  
BTF Testing Lab (Shenzhen) Co., Ltd. has been accredited as a testing laboratory by FCC (Federal Communications Commission). The test firm Registration No. is 518915.
- **CNAS - Registration No.: CNAS L17568**  
BTF Testing Lab (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 L17568.
- **A2LA - Registration No.: 6660.01**  
BTF Testing Lab (Shenzhen) Co., Ltd. is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories.

## 1.3 Announcement

- (1) The test report reference to the report template version v0.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing, reviewing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) This document may not be altered or revised in any way unless done so by BTF and all revisions are duly noted in the revisions section.
- (5) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- (6) The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

## 2 Product Information

### 2.1 Application Information

|               |                                                                                     |
|---------------|-------------------------------------------------------------------------------------|
| Company name: | Shenzhen Evview GPS Technology                                                      |
| Address:      | Rm 201, building 1-A, Nankechuang Yuangu, Dalang, Longhua District, Shenzhen, China |

### 2.2 Manufacturer Information

|               |                                                                                     |
|---------------|-------------------------------------------------------------------------------------|
| Company name: | Shenzhen Evview GPS Technology                                                      |
| Address:      | Rm 201, building 1-A, Nankechuang Yuangu, Dalang, Longhua District, Shenzhen, China |

### 2.3 Factory Information

|               |                                                                                     |
|---------------|-------------------------------------------------------------------------------------|
| Company name: | Shenzhen Evview GPS Technology                                                      |
| Address:      | Rm 201, building 1-A, Nankechuang Yuangu, Dalang, Longhua District, Shenzhen, China |

### 2.4 General Description of Equipment under Test (EUT)

|                                           |                                            |
|-------------------------------------------|--------------------------------------------|
| EUT name                                  | Personl Mobile Alarm System                |
| Under test model name                     | EV-07BX-V                                  |
| Series model name                         | N/A                                        |
| Description of model name differentiation | N/A                                        |
| Hardware Version                          | EV07B_LTE_V2.0                             |
| Software Version                          | N/A                                        |
| Rating:                                   | Input: DC5V 1A Battery: 3.7V 800mAh 2.96Wh |

### 2.5 Technical Information

|                        |                                        |
|------------------------|----------------------------------------|
| Operation frequency:   | 2402MHz ~ 2480MHz                      |
| Channel numbers:       | 40                                     |
| Channel separation:    | 2MHz                                   |
| Modulation technology: | GFSK                                   |
| Data rate:             | 1 Mbps (LE 1M PHY), 2 Mbps (LE 2M PHY) |
| Max. E.I.R.P Power:    | -0.46 dBm (1 Mbps (LE 1M PHY))         |
| Antenna type:          | FPC Antenna                            |
| Antenna gain:          | -4.90 dBi (declare by Applicant)       |
| Antenna transmit mode: | SISO (1TX, 1RX)                        |

### 3 Test Information

#### 3.1 Test Standards

| Identity                                     | Document Title                                                                                                                                                                           |
|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FCC CFR Title 47 Part 15 Subpart C (§15.247) | Intentional Radiators - Operation within the bands 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz.                                                                                      |
| ANSI C63.10-2020                             | American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices                                                                                           |
| KDB 558074 D01 15.247 Meas Guidance v05r02   | Guidance for Compliance Measurements on Digital Transmission System, Frequency Hopping Spread Spectrum System, and Hybrid System Devices Operating Under Section 15.247 of The FCC Rules |

#### 3.2 Summary of Test

| Clauses                                                                     | Test Items                                         | Result |
|-----------------------------------------------------------------------------|----------------------------------------------------|--------|
| § 15.203<br>§ 15.247(b)(4)                                                  | Antenna Requirement                                | Pass   |
| § 15.207                                                                    | AC Power Line Conducted Emission                   | Pass   |
| § 15.247(b)(3)                                                              | Duty Cycle                                         | Pass   |
| § 15.247(b)(3)                                                              | Conducted Output Power                             | Pass   |
| § 15.247(a)(2)                                                              | 6dB Emission Bandwidth<br>99% Occupied Bandwidth   | Pass   |
| § 15.247(e)                                                                 | Power Spectral Density                             | Pass   |
| § 15.247(d)                                                                 | Band-edge Emission<br>Conduction Spurious Emission | Pass   |
| § 15.205<br>§ 15.247(d)                                                     | Emissions in Restricted Frequency Bands            | Pass   |
| § 15.209<br>§ 15.247(d)                                                     | Emissions in Non-restricted Frequency Bands        | Pass   |
| <b>Remark:</b><br>1. Pass: met the requirements.<br>2. N/A: not applicable. |                                                    |        |

### 3.3 Uncertainty of Test

| Measurement                                  | Value    |
|----------------------------------------------|----------|
| Conducted Emission for LISN (9kHz ~ 150kHz)  | ±2.97 dB |
| Conducted Emission for LISN (150kHz ~ 30MHz) | ±2.45 dB |
| Radiated Emission (30MHz ~ 1000MHz)          | ±4.80 dB |
| Radiated Emission (1GHz ~ 18GHz)             | ±4.82 dB |
| Radiated Emission (18GHz ~ 40GHz)            | ±4.94dB  |
| Conducted spurious emissions                 | ±2.75dB  |
| Occupied Channel Bandwidth                   | ±5%      |
| RF output power, conducted                   | ±1.5 dB  |

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

### 3.4 Additions to, deviations, or exclusions from the method

|      |
|------|
| None |
|------|

### 3.5 Test Auxiliary Equipment

| No. | Description | Manufacturer | Model | Serial Number | Certification |
|-----|-------------|--------------|-------|---------------|---------------|
| 1   | Adapter     | Apple        | A2244 | N/A           | N/A           |

### 3.6 Test Equipment List

| Radiated Emission Test          |                 |           |                      |            |            |
|---------------------------------|-----------------|-----------|----------------------|------------|------------|
| Test Equipment                  | Manufacturer    | Model     | Serial No.           | Cal. Date  | Cal. Due   |
| EMI Receiver                    | Rohde & Schwarz | ESCI7     | 101032               | 2024/10/25 | 2025/10/24 |
| Signal Analyzer                 | Rohde & Schwarz | FSQ40     | 100010               | 2024/10/25 | 2025/10/24 |
| Log periodic antenna            | Schwarzbeck     | VULB 9168 | 01328                | 2024/10/28 | 2025/10/27 |
| Preamplifier<br>(30MHz ~ 1GHz)  | Schwarzbeck     | BBV9744   | 00246                | 2024/09/24 | 2025/09/23 |
| Horn Antenna                    | Schwarzbeck     | BBHA9120D | 2597                 | 2024/10/30 | 2025/10/29 |
| Preamplifier<br>(1GHz ~ 18GHz)  | Schwarzbeck     | BBV9718D  | 00008                | 2024/09/24 | 2025/09/23 |
| Horn Antenna<br>(15GHz ~ 40GHz) | SCHWARZBECK     | BBHA9170  | 1157                 | 2024/10/24 | 2025/10/23 |
| Test Software                   | Frad            | EZ_EM C   | Version: FA-03A2 RE+ |            |            |

| Conducted Emission Test |                 |           |            |            |            |
|-------------------------|-----------------|-----------|------------|------------|------------|
| Description             | Manufacturer    | Model     | Serial No. | Cal. Date  | Cal. Due   |
| EMI Receiver            | Rohde & Schwarz | ESCI3     | 101422     | 2024/10/25 | 2025/10/24 |
| V-LISN                  | Schwarzbeck     | NSLK 8127 | 01073      | 2024/10/25 | 2025/10/24 |
| Coaxial Switcher        | Schwarzbeck     | CX210     | CX210      | /          | /          |

|               |             |             |                         |   |   |
|---------------|-------------|-------------|-------------------------|---|---|
| Pulse Limiter | Schwarzbeck | VTSD 9561-F | 00953                   | / | / |
| Test Software | Frad        | EZ_EMC      | Version: EMC-CON 3A1.1+ |   |   |

| Conducted test method               |               |           |              |            |            |
|-------------------------------------|---------------|-----------|--------------|------------|------------|
| Description                         | Manufacturer  | Model     | Serial No.   | Cal. Date  | Cal. Due   |
| Spectrum Analyzer                   | Keysight      | N9020A    | MY50410020   | 2024/10/25 | 2025/10/24 |
| ESG Vector Signal Generator         | Agilent       | E4438C    | MY45094854   | 2024/10/25 | 2025/10/24 |
| MXG Vector Signal Generator         | Agilent       | N5182A    | MY46240163   | 2024/10/25 | 2025/10/24 |
| Wideband Radio Communication Tester | Rohde&Schwarz | CMW500    | 161997       | 2024/10/25 | 2025/10/24 |
| Temperature Humidity Chamber        | ZZCKONG       | ZZ-K02A   | 20210928007  | 2024/10/25 | 2025/10/24 |
| DC Power Supply                     | Tongmen       | etm-6050c | 20211026123  | 2024/10/25 | 2025/10/24 |
| RF Control Unit                     | Techy         | TR1029-1  | /            | 2024/10/25 | 2025/10/24 |
| RF Sensor Unit                      | Techy         | TR1029-2  | /            | 2024/10/25 | 2025/10/24 |
| Test Software                       | TST Pass      | /         | Version: 2.0 |            |            |

## 4 Test Configuration

### 4.1 Environment Condition

| Selected Values During Tests                      |                   |                   |
|---------------------------------------------------|-------------------|-------------------|
| Temperature                                       | Relative Humidity | Ambient Pressure  |
| Normal: +15°C to +35°C<br>Extreme: -30°C to +50°C | 20% to 75%        | 86 kPa to 106 kPa |

### 4.2 Test mode

|                                                                                                                |                                                                |
|----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| Transmitting mode:                                                                                             | Keep the EUT in continuously transmitting mode with modulation |
| <b>Remark:</b> Per-scan all kind of data rate, and report only reflects the test data of worst data rate mode. |                                                                |

### 4.3 Test Channel of EUT

In section 15.31(m), regards to the operating frequency range over 10 MHz, the lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

| Lowest channel |                 | Middle channel |                 | Highest channel |                 |
|----------------|-----------------|----------------|-----------------|-----------------|-----------------|
| Channel No.    | Frequency (MHz) | Channel No.    | Frequency (MHz) | Channel No.     | Frequency (MHz) |
| 0              | 2402            | 19             | 2440            | 39              | 2480            |

### 4.4 Test software

|                |                          |          |        |
|----------------|--------------------------|----------|--------|
| Test software: | Direct Test Mode(v2.4.1) | Version: | v2.4.1 |
| Power Class:   | 5                        | --       | --     |

## 4.5 Test procedure

### AC Power Line Conducted Emission

The EUT is connected to the power mains through a LISN which provides 50  $\Omega$ /50  $\mu$ H of coupling impedance for the measuring instrument. The test frequency range is from 150 kHz to 30 MHz. The maximum conducted interference is searched using Peak (PK), Quasi-peak (QP) and Average (AV) detectors; the emission levels that are more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed.

### Radiated test method

#### For below 1GHz:

1. The EUT was placed on the tabletop of a rotating table 0.8 m the ground at a 3 m semi anechoic chamber. The measurement distance from the EUT to the receiving antenna is 3 m.
2. EUT works in each mode of operation that needs to be tested. 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.
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.

#### For above 1GHz:

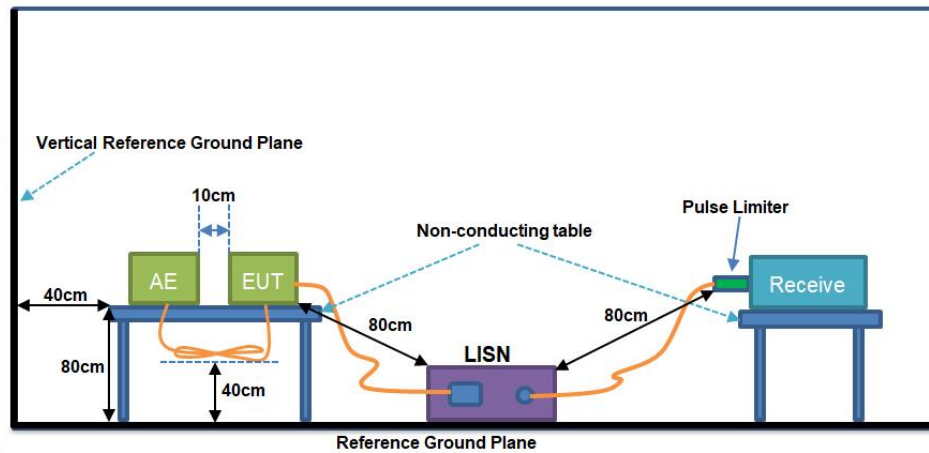
1. The EUT was placed on the tabletop of a rotating table 1.5 m the ground at a 3 m semi anechoic chamber. The measurement distance from the EUT to the receiving antenna is 3 m.
2. EUT works in each mode of operation that needs to be tested. The highest signal levels relative to the limit shall be determined 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.
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.

### Conducted test method

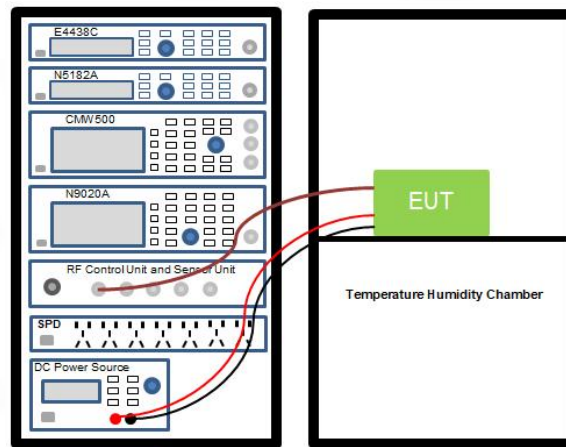
1. The Bluetooth antenna port of EUT was connected to the test port of the test system through an RF cable.
2. The EUT is keeping in continuous transmission mode and tested in all modulation modes.
3. Open the test software, prepare a test plan, and control the system through the software. After the test is completed, the test report is exported through the test software.

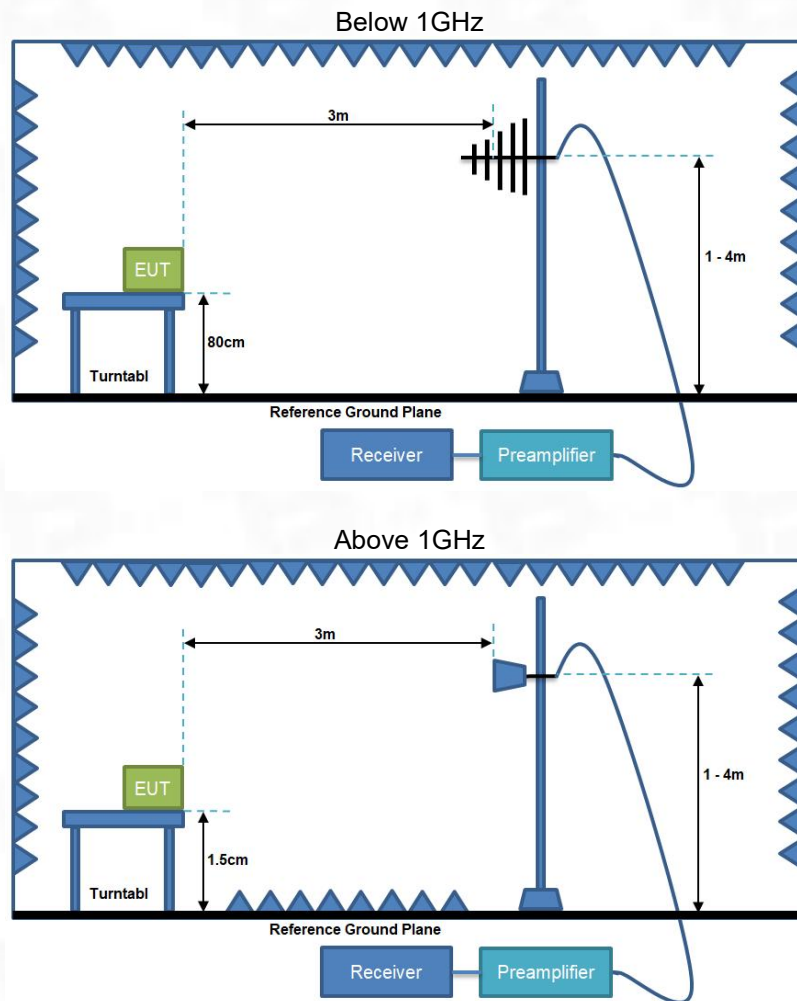
## 4.6 Test Setup Block

### 1) Conducted emission measurement:



### 2) Conducted test method:



**3) Radiated test method:**

## 5 Technical requirements specification

### 5.1 Summary of Test Result

| Test Items                                         | Limit                                                                                                     | Test data         | Verdict |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-------------------|---------|
| Antenna Requirement                                | Please refer to §15.203 and §15.247(b)(4)                                                                 | See Section 5.2   | Pass    |
| AC Power Line Conducted Emission                   | Please refer to §15.207                                                                                   | See Section 5.3   | Pass    |
| Duty Cycle                                         | No limits, only for report use.                                                                           | See Appendix-2.4G | Pass    |
| Conducted Output Power                             | For systems using digital modulation: 1 Watts (30 dBm).                                                   | See Appendix-BLE  | Pass    |
| 6dB Emission Bandwidth<br>99% Occupied Bandwidth   | The minimum 6 dB bandwidth shall be at least 500 kHz.                                                     | See Appendix-BLE  | Pass    |
| Power Spectral Density                             | For digitally modulated systems, the power spectral density shall not be greater than 8 dBm in any 3 kHz. | See Appendix-BLE  | Pass    |
| Band-edge Emission<br>Conduction Spurious Emission | Please refer to §15.247(d)                                                                                | See Appendix-BLE  | Pass    |
| Emissions in Restricted Frequency Bands            | Please refer to §15.205                                                                                   | See Section 5.4   | Pass    |
| Emissions in Non-restricted Frequency Bands        | Please refer to §15.209 and §15.247(d)                                                                    | See Section 5.5   | Pass    |

## 5.2 Antenna Requirement

### §15.203 requirement:

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.

### §15.247(b) (4) requirement:

(4) The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

#### E.U.T Antenna:

The Bluetooth antenna is an Internal antenna which permanently attached, and the best case gain of the antenna is -4.9 dBi. See product internal photos for details.

### 5.3 AC Power Line Conducted Emission

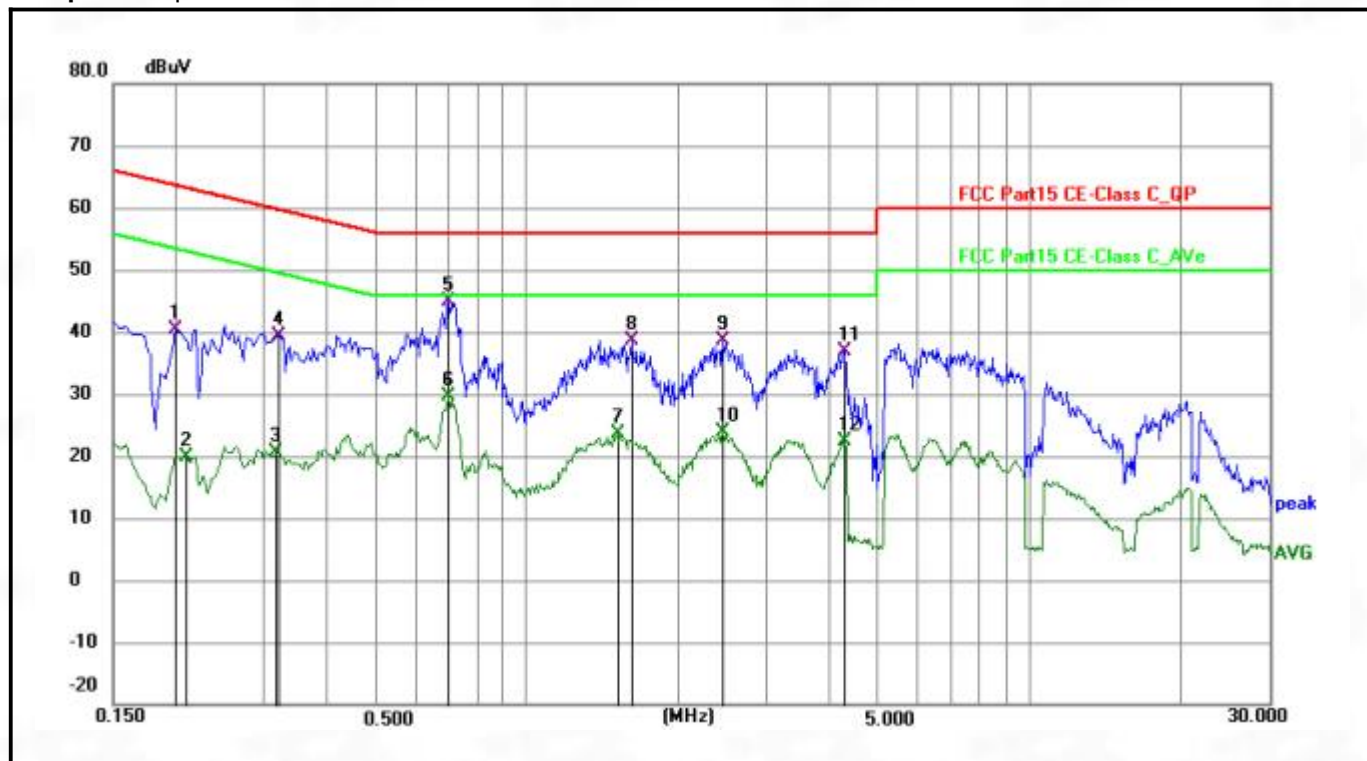
|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                              |           |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------|
| Test Requirement: | Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 $\mu$ H/50 ohms line impedance stabilization network (LISN). |                              |           |
| Test Method:      | Refer to ANSI C63.10-2020 section 6.2, standard test method for ac power-line conducted emissions from unlicensed wireless devices                                                                                                                                                                                                                                                                                                                   |                              |           |
| Test Limit:       | Frequency of emission (MHz)                                                                                                                                                                                                                                                                                                                                                                                                                          | Conducted limit (dB $\mu$ V) |           |
|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Quasi-peak                   | Average   |
|                   | 0.15-0.5                                                                                                                                                                                                                                                                                                                                                                                                                                             | 66 to 56*                    | 56 to 46* |
|                   | 0.5-5                                                                                                                                                                                                                                                                                                                                                                                                                                                | 56                           | 46        |
|                   | 5-30                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 60                           | 50        |

\*Decreases with the logarithm of the frequency.

|              |              |               |           |
|--------------|--------------|---------------|-----------|
| Temperature  | 22.5°C       | Humidity      | 56%       |
| Test voltage | AC 120V/60Hz | Test Engineer | Zero Zeng |

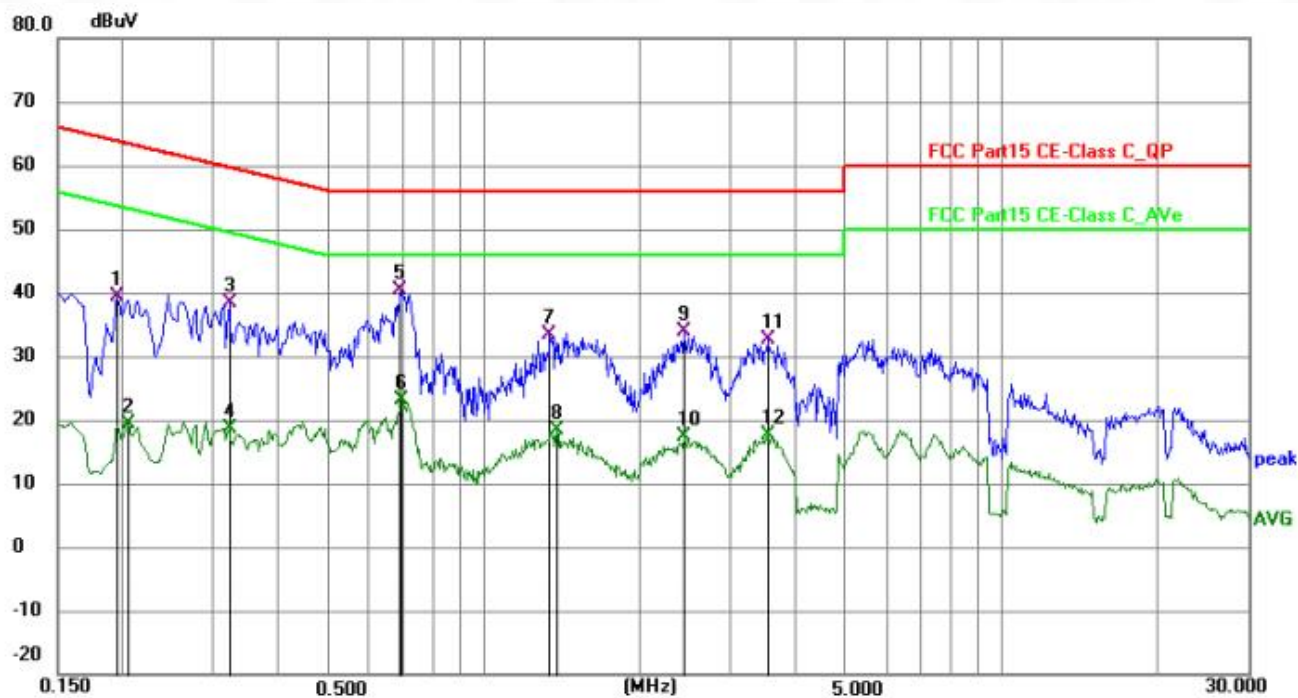
**Remark:** During the test, pre-scan 1 Mbps (LE 1M PHY), 2 Mbps (LE 2M PHY) mode, found 1 Mbps (LE 1M PHY) was worse case mode. The report only reflects the test data of worst mode.

**Test phase:** L phase



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F | Remark |
|-----|-----------------|----------------|-------------|--------------|--------------|-------------|----------|-----|--------|
| 1   | 0.1995          | 29.70          | 10.66       | 40.36        | 63.63        | -23.27      | QP       | P   |        |
| 2   | 0.2084          | 9.24           | 10.66       | 19.90        | 53.27        | -33.37      | AVG      | P   |        |
| 3   | 0.3165          | 9.94           | 10.67       | 20.61        | 49.80        | -29.19      | AVG      | P   |        |
| 4   | 0.3209          | 28.65          | 10.67       | 39.32        | 59.68        | -20.36      | QP       | P   |        |
| 5 * | 0.6990          | 34.30          | 10.58       | 44.88        | 56.00        | -11.12      | QP       | P   |        |
| 6   | 0.6990          | 19.08          | 10.58       | 29.66        | 46.00        | -16.34      | AVG      | P   |        |
| 7   | 1.5135          | 12.82          | 10.76       | 23.58        | 46.00        | -22.42      | AVG      | P   |        |
| 8   | 1.6170          | 27.82          | 10.74       | 38.56        | 56.00        | -17.44      | QP       | P   |        |
| 9   | 2.4585          | 27.83          | 10.69       | 38.52        | 56.00        | -17.48      | QP       | P   |        |
| 10  | 2.4585          | 13.22          | 10.69       | 23.91        | 46.00        | -22.09      | AVG      | P   |        |
| 11  | 4.3034          | 26.06          | 10.85       | 36.91        | 56.00        | -19.09      | QP       | P   |        |
| 12  | 4.3034          | 11.50          | 10.85       | 22.35        | 46.00        | -23.65      | AVG      | P   |        |

Test phase: N phase



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F | Remark |
|-----|-----------------|----------------|-------------|--------------|--------------|-------------|----------|-----|--------|
| 1   | 0.1955          | 28.73          | 10.56       | 39.29        | 63.80        | -24.51      | QP       | P   |        |
| 2   | 0.2050          | 8.88           | 10.56       | 19.44        | 53.41        | -33.97      | AVG      | P   |        |
| 3   | 0.3217          | 27.62          | 10.65       | 38.27        | 59.66        | -21.39      | QP       | P   |        |
| 4   | 0.3217          | 8.02           | 10.65       | 18.67        | 49.66        | -30.99      | AVG      | P   |        |
| 5 * | 0.6899          | 29.46          | 10.88       | 40.34        | 56.00        | -15.66      | QP       | P   |        |
| 6   | 0.6936          | 12.36          | 10.88       | 23.24        | 46.00        | -22.76      | AVG      | P   |        |
| 7   | 1.3379          | 22.52          | 10.89       | 33.41        | 56.00        | -22.59      | QP       | P   |        |
| 8   | 1.3810          | 7.55           | 10.90       | 18.45        | 46.00        | -27.55      | AVG      | P   |        |
| 9   | 2.4346          | 22.82          | 10.95       | 33.77        | 56.00        | -22.23      | QP       | P   |        |
| 10  | 2.4346          | 6.35           | 10.95       | 17.30        | 46.00        | -28.70      | AVG      | P   |        |
| 11  | 3.5278          | 21.79          | 10.85       | 32.64        | 56.00        | -23.36      | QP       | P   |        |
| 12  | 3.5278          | 6.67           | 10.85       | 17.52        | 46.00        | -28.48      | AVG      | P   |        |

Note1: Level= Read Level+ Cable Loss+ LISN Factor

Note2: Margin=Level-Limit=Reading+factor-Limit

## 5.4 Emissions in Restricted Frequency Bands

|                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                              |                                   |                               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-------------------------------|
| Test Requirement:                                                                                                                                                                                                                                                                                                                               | In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)). |                                   |                               |
| Test Method:                                                                                                                                                                                                                                                                                                                                    | Radiated emissions tests                                                                                                                                                                     |                                   |                               |
| Test Limit:                                                                                                                                                                                                                                                                                                                                     | Frequency (MHz)                                                                                                                                                                              | Field strength (microvolts/meter) | Measurement distance (meters) |
|                                                                                                                                                                                                                                                                                                                                                 | 0.009-0.490                                                                                                                                                                                  | 2400/F(kHz)                       | 300                           |
|                                                                                                                                                                                                                                                                                                                                                 | 0.490-1.705                                                                                                                                                                                  | 24000/F(kHz)                      | 30                            |
|                                                                                                                                                                                                                                                                                                                                                 | 1.705-30.0                                                                                                                                                                                   | 30                                | 30                            |
|                                                                                                                                                                                                                                                                                                                                                 | 30-88                                                                                                                                                                                        | 100 **                            | 3                             |
|                                                                                                                                                                                                                                                                                                                                                 | 88-216                                                                                                                                                                                       | 150 **                            | 3                             |
|                                                                                                                                                                                                                                                                                                                                                 | 216-960                                                                                                                                                                                      | 200 **                            | 3                             |
|                                                                                                                                                                                                                                                                                                                                                 | Above 960                                                                                                                                                                                    | 500                               | 3                             |
| ** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. |                                                                                                                                                                                              |                                   |                               |
| Procedure:                                                                                                                                                                                                                                                                                                                                      | ANSI C63.10-2020 section 6.10.5.2                                                                                                                                                            |                                   |                               |

|              |         |               |           |
|--------------|---------|---------------|-----------|
| Temperature  | 22.5℃   | Humidity      | 56%       |
| Test voltage | DC 3.7V | Test Engineer | Zero Zeng |

**Remark:** During the test, pre-scan 1 Mbps (LE 1M PHY), 2 Mbps (LE 2M PHY) mode, found 1 Mbps (LE 1M PHY) was worse case mode. The report only reflects the test data of worst mode.

| Test Mode: 1 Mbps (LE 1M PHY)                               |                |             |                |                |              |          |        |
|-------------------------------------------------------------|----------------|-------------|----------------|----------------|--------------|----------|--------|
| Test Channel: Lowest channel, Test Polarization: Vertical   |                |             |                |                |              |          |        |
| Frequency (MHz)                                             | Reading (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Marging (dB) | Detector | Result |
| 2310.00                                                     | 51.19          | 3.85        | 55.04          | 74.00          | -18.96       | Peak     | Pass   |
| 2310.00                                                     | 40.82          | 3.85        | 44.67          | 54.00          | -9.33        | AVG      | Pass   |
| 2390.00                                                     | 52.03          | 3.91        | 55.95          | 74.00          | -18.05       | Peak     | Pass   |
| 2390.00                                                     | 41.97          | 3.91        | 45.89          | 54.00          | -8.11        | AVG      | Pass   |
| Test Channel: Lowest channel, Test Polarization: Horizontal |                |             |                |                |              |          |        |
| Frequency (MHz)                                             | Reading (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Marging (dB) | Detector | Result |
| 2310.00                                                     | 50.61          | 3.85        | 54.46          | 74.00          | -19.54       | Peak     | Pass   |
| 2310.00                                                     | 39.99          | 3.85        | 43.84          | 54.00          | -10.16       | AVG      | Pass   |
| 2390.00                                                     | 51.22          | 3.91        | 55.14          | 74.00          | -18.86       | Peak     | Pass   |
| 2390.00                                                     | 41.11          | 3.91        | 45.03          | 54.00          | -8.97        | AVG      | Pass   |
| Test Channel: Highest channel, Test Polarization: Vertical  |                |             |                |                |              |          |        |

| Frequency (MHz)                                                     | Reading (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Marging (dB) | Detector | Result |
|---------------------------------------------------------------------|----------------|-------------|----------------|----------------|--------------|----------|--------|
| 2483.50                                                             | 50.72          | 3.99        | 54.71          | 74.00          | -19.29       | Peak     | Pass   |
| 2483.50                                                             | 39.95          | 3.99        | 43.93          | 54.00          | -10.07       | AVG      | Pass   |
| 2500.00                                                             | 51.73          | 4.00        | 55.73          | 74.00          | -18.27       | Peak     | Pass   |
| 2500.00                                                             | 41.23          | 4.00        | 45.23          | 54.00          | -8.77        | AVG      | Pass   |
| <b>Test Channel: Highest channel, Test Polarization: Horizontal</b> |                |             |                |                |              |          |        |
| Frequency (MHz)                                                     | Reading (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Marging (dB) | Detector | Result |
| 2483.50                                                             | 51.12          | 3.99        | 55.11          | 74.00          | -18.89       | Peak     | Pass   |
| 2483.50                                                             | 40.82          | 3.99        | 44.81          | 54.00          | -9.19        | AVG      | Pass   |
| 2500.00                                                             | 51.50          | 4.00        | 55.50          | 74.00          | -18.50       | Peak     | Pass   |
| 2500.00                                                             | 41.55          | 4.00        | 45.55          | 54.00          | -8.45        | AVG      | Pass   |

Note1:Level=Read Level + Antenna Factor + Cable Loss - Preamp Factor

Note2:Margin=Level-Limit=Reading+factor-Limit

## 5.5 Emissions in Non-restricted Frequency Bands

|                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                               |                                   |                               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-------------------------------|
| Test Requirement:                                                                                                                                                                                                                                                                                                                               | In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).` |                                   |                               |
| Test Method:                                                                                                                                                                                                                                                                                                                                    | Radiated emissions tests                                                                                                                                                                      |                                   |                               |
| Test Limit:                                                                                                                                                                                                                                                                                                                                     | Frequency (MHz)                                                                                                                                                                               | Field strength (microvolts/meter) | Measurement distance (meters) |
|                                                                                                                                                                                                                                                                                                                                                 | 0.009-0.490                                                                                                                                                                                   | 2400/F(kHz)                       | 300                           |
|                                                                                                                                                                                                                                                                                                                                                 | 0.490-1.705                                                                                                                                                                                   | 24000/F(kHz)                      | 30                            |
|                                                                                                                                                                                                                                                                                                                                                 | 1.705-30.0                                                                                                                                                                                    | 30                                | 30                            |
|                                                                                                                                                                                                                                                                                                                                                 | 30-88                                                                                                                                                                                         | 100 **                            | 3                             |
|                                                                                                                                                                                                                                                                                                                                                 | 88-216                                                                                                                                                                                        | 150 **                            | 3                             |
|                                                                                                                                                                                                                                                                                                                                                 | 216-960                                                                                                                                                                                       | 200 **                            | 3                             |
|                                                                                                                                                                                                                                                                                                                                                 | Above 960                                                                                                                                                                                     | 500                               | 3                             |
| ** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. |                                                                                                                                                                                               |                                   |                               |
| Procedure:                                                                                                                                                                                                                                                                                                                                      | ANSI C63.10-2020 section 6.6.4                                                                                                                                                                |                                   |                               |

|                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                               |                                   |                               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-------------------------------|
| Test Requirement:                                                                                                                                                                                                                                                                                                                               | In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).` |                                   |                               |
| Test Method:                                                                                                                                                                                                                                                                                                                                    | Radiated emissions tests                                                                                                                                                                      |                                   |                               |
| Test Limit:                                                                                                                                                                                                                                                                                                                                     | Frequency (MHz)                                                                                                                                                                               | Field strength (microvolts/meter) | Measurement distance (meters) |
|                                                                                                                                                                                                                                                                                                                                                 | 0.009-0.490                                                                                                                                                                                   | 2400/F(kHz)                       | 300                           |
|                                                                                                                                                                                                                                                                                                                                                 | 0.490-1.705                                                                                                                                                                                   | 24000/F(kHz)                      | 30                            |
|                                                                                                                                                                                                                                                                                                                                                 | 1.705-30.0                                                                                                                                                                                    | 30                                | 30                            |
|                                                                                                                                                                                                                                                                                                                                                 | 30-88                                                                                                                                                                                         | 100 **                            | 3                             |
|                                                                                                                                                                                                                                                                                                                                                 | 88-216                                                                                                                                                                                        | 150 **                            | 3                             |
|                                                                                                                                                                                                                                                                                                                                                 | 216-960                                                                                                                                                                                       | 200 **                            | 3                             |
|                                                                                                                                                                                                                                                                                                                                                 | Above 960                                                                                                                                                                                     | 500                               | 3                             |
| ** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. |                                                                                                                                                                                               |                                   |                               |
| Procedure:                                                                                                                                                                                                                                                                                                                                      | ANSI C63.10-2020 section 6.6.4                                                                                                                                                                |                                   |                               |

|              |         |               |           |
|--------------|---------|---------------|-----------|
| Temperature  | 22.5℃   | Humidity      | 56%       |
| Test voltage | DC 3.7V | Test Engineer | Zero Zeng |

**Remark:** During the test, pre-scan 1 Mbps (LE 1M PHY), 2 Mbps (LE 2M PHY) mode, found 1 Mbps (LE 1M PHY) was worse case mode. The report only reflects the test data of worst mode.

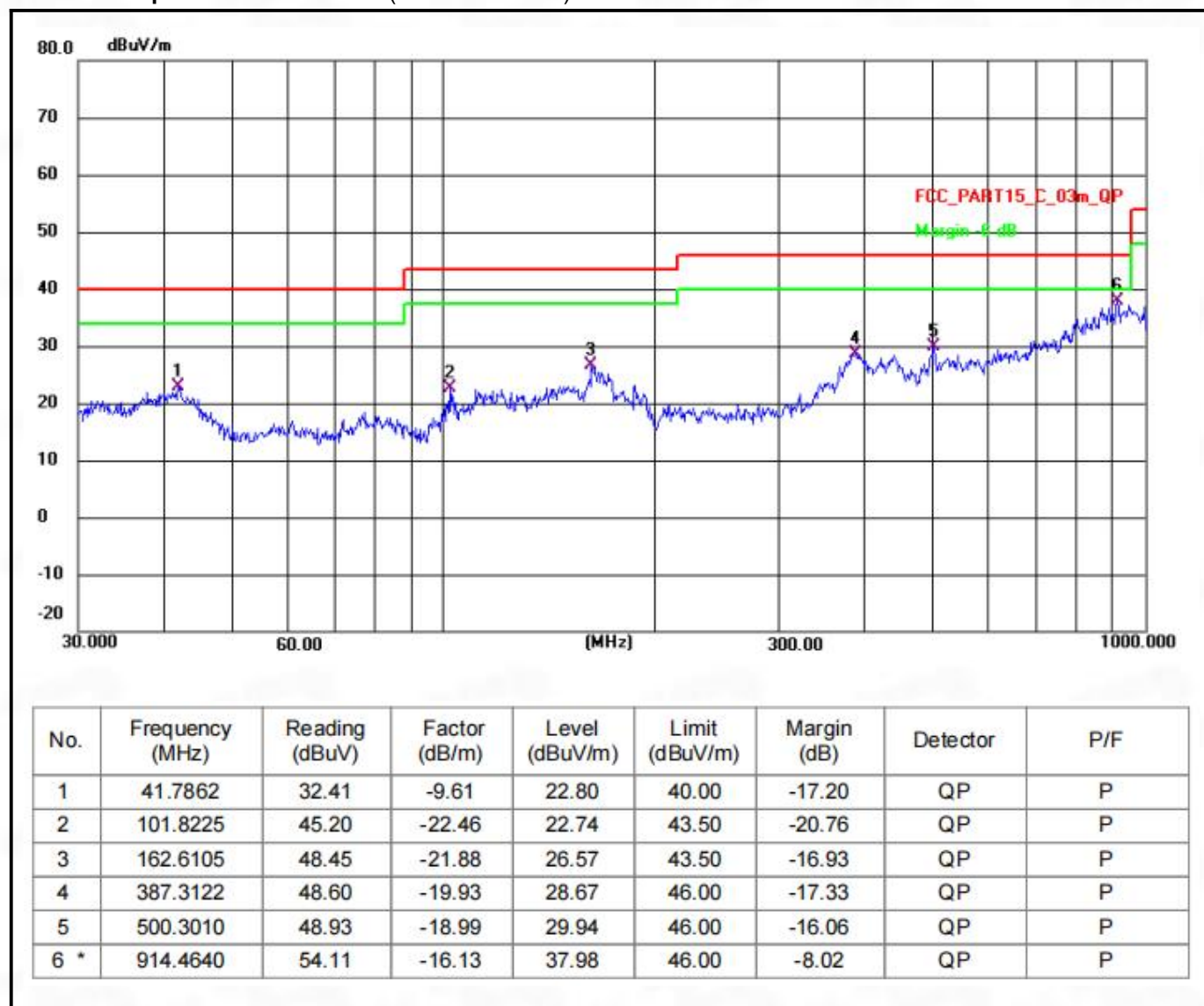
For below 1GHz:

Test antenna polarization: Vertical (30 MHz to 1 GHz)



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | P/F |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-----|
| 1   | 39.3680         | 32.37          | -9.63         | 22.74          | 40.00          | -17.26      | QP       | P   |
| 2   | 103.6235        | 50.56          | -22.43        | 28.13          | 43.50          | -15.37      | QP       | P   |
| 3   | 120.2766        | 48.29          | -22.29        | 26.00          | 43.50          | -17.50      | QP       | P   |
| 4   | 224.5192        | 45.15          | -21.29        | 23.86          | 46.00          | -22.14      | QP       | P   |
| 5   | 519.9755        | 52.80          | -18.86        | 33.94          | 46.00          | -12.06      | QP       | P   |
| 6 * | 873.7137        | 54.34          | -16.65        | 37.69          | 46.00          | -8.31       | QP       | P   |

Test antenna polarization: Horizontal (30 MHz to 1 GHz)



Note1:Level=Read Level + Antenna Factor + Cable Loss - Preamp Factor

Note2:Margin=Level-Limit=Reading+factor-Limit

For above 1GHz:

| Test Mode: 1 Mbps (LE 1M PHY)                               |                |             |                |                |              |          |        |
|-------------------------------------------------------------|----------------|-------------|----------------|----------------|--------------|----------|--------|
| Test Channel: Lowest channel, Test Polarization: Vertical   |                |             |                |                |              |          |        |
| Frequency (MHz)                                             | Reading (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Marging (dB) | Detector | Result |
| 4824.00                                                     | 78.21          | -48.87      | 29.34          | 74.00          | -44.66       | Peak     | Pass   |
| 4824.00                                                     | 67.31          | -48.87      | 18.44          | 54.00          | -35.56       | AVG      | Pass   |
| 7236.00                                                     | 75.10          | -46.99      | 28.12          | 74.00          | -45.88       | Peak     | Pass   |
| 7236.00                                                     | 64.82          | -46.99      | 17.83          | 54.00          | -36.17       | AVG      | Pass   |
| Test Channel: Lowest channel, Test Polarization: Horizontal |                |             |                |                |              |          |        |
| Frequency (MHz)                                             | Reading (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Marging (dB) | Detector | Result |
| 4824.00                                                     | 79.57          | -48.87      | 30.70          | 74.00          | -43.30       | Peak     | Pass   |
| 4824.00                                                     | 68.64          | -48.87      | 19.77          | 54.00          | -34.23       | AVG      | Pass   |
| 7236.00                                                     | 76.56          | -46.99      | 29.57          | 74.00          | -44.43       | Peak     | Pass   |
| 7236.00                                                     | 66.69          | -46.99      | 19.70          | 54.00          | -34.30       | AVG      | Pass   |
| Test Channel: Middle channel, Test Polarization: Vertical   |                |             |                |                |              |          |        |
| Frequency (MHz)                                             | Reading (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Marging (dB) | Detector | Result |
| 4874.00                                                     | 79.57          | -48.84      | 30.73          | 74.00          | -43.27       | Peak     | Pass   |
| 4874.00                                                     | 69.94          | -48.84      | 21.10          | 54.00          | -32.90       | AVG      | Pass   |
| 7311.00                                                     | 75.42          | -46.90      | 28.52          | 74.00          | -45.48       | Peak     | Pass   |
| 7311.00                                                     | 65.75          | -46.90      | 18.85          | 54.00          | -35.15       | AVG      | Pass   |
| Test Channel: Middle channel, Test Polarization: Horizontal |                |             |                |                |              |          |        |
| Frequency (MHz)                                             | Reading (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Marging (dB) | Detector | Result |
| 4874.00                                                     | 79.21          | -48.84      | 30.36          | 74.00          | -43.64       | Peak     | Pass   |
| 4874.00                                                     | 69.27          | -48.84      | 20.42          | 54.00          | -33.58       | AVG      | Pass   |
| 7311.00                                                     | 75.77          | -46.90      | 28.87          | 74.00          | -45.13       | Peak     | Pass   |
| 7311.00                                                     | 65.66          | -46.90      | 18.76          | 54.00          | -35.24       | AVG      | Pass   |
| Test Channel: Highest channel, Test Polarization: Vertical  |                |             |                |                |              |          |        |
| Frequency (MHz)                                             | Reading (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Marging (dB) | Detector | Result |
| 4924.00                                                     | 79.73          | -48.81      | 30.92          | 74.00          | -43.08       | Peak     | Pass   |
| 4924.00                                                     | 69.67          | -48.81      | 20.86          | 54.00          | -33.14       | AVG      | Pass   |
| 7386.00                                                     | 76.21          | -46.81      | 29.40          | 74.00          | -44.60       | Peak     | Pass   |

| 7386.00                                                      | 66.59             | -46.81         | 19.78             | 54.00             | -34.22          | AVG      | Pass   |
|--------------------------------------------------------------|-------------------|----------------|-------------------|-------------------|-----------------|----------|--------|
| Test Channel: Highest channel, Test Polarization: Horizontal |                   |                |                   |                   |                 |          |        |
| Frequency<br>(MHz)                                           | Reading<br>(dBμV) | Factor<br>(dB) | Level<br>(dBμV/m) | Limit<br>(dBμV/m) | Marging<br>(dB) | Detector | Result |
| 4924.00                                                      | 78.21             | -48.81         | 29.40             | 74.00             | -44.60          | Peak     | Pass   |
| 4924.00                                                      | 68.27             | -48.81         | 19.46             | 54.00             | -34.54          | AVG      | Pass   |
| 7386.00                                                      | 75.42             | -46.81         | 28.61             | 74.00             | -45.39          | Peak     | Pass   |
| 7386.00                                                      | 65.75             | -46.81         | 18.95             | 54.00             | -35.05          | AVG      | Pass   |

Note1:Level=Read Level + Antenna Factor + Cable Loss - Preamp Factor

Note2:Margin=Level-Limit=Reading+factor-Limit

## 5.6 Occupied Bandwidth

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | Systems using digital modulation techniques may operate in the 902-928 MHz, and 2400-2483.5 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.                                                                                                                                                                                                                                                                                                                                                                                                           |
| Test Method:      | DTS bandwidth                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Test Limit:       | Section (a)(2), Systems using digital modulation techniques may operate in the 902-928 MHz, and 2400-2483.5 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.                                                                                                                                                                                                                                                                                                                                                                                           |
| Procedure:        | <ul style="list-style-type: none"><li>a) Set RBW = 100 kHz.</li><li>b) Set the VBW <math>\geq</math> <math>[3 \times \text{RBW}]</math>.</li><li>c) Detector = peak.</li><li>d) Trace mode = max hold.</li><li>e) Sweep = auto couple.</li><li>f) Allow the trace to stabilize.</li><li>g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.</li></ul> |

### 5.6.1 E.U.T. Operation:

|                        |          |
|------------------------|----------|
| Operating Environment: |          |
| Temperature:           | 23.7 °C  |
| Humidity:              | 53.4 %   |
| Atmospheric Pressure:  | 1010 hpa |
| Test Voltage           | DC 3.7V  |

### 5.6.2 Test Data:

Please Refer to Appendix-BLE for Details.

### 5.6.3 Test Setup

See section 4.5 for test setup description. The photo of test setup please refer to Appendix I Test Setup Photos

## 5.7 Maximum Conducted Output Power

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode. |
| Test Method:      | Maximum peak conducted output power                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Test Limit:       | For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode. |
| Procedure:        | ANSI C63.10-2020, section 11.9.1 Maximum peak conducted output power                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

### 5.7.1 E.U.T. Operation:

|                        |          |
|------------------------|----------|
| Operating Environment: |          |
| Temperature:           | 23.7 °C  |
| Humidity:              | 53.4 %   |
| Atmospheric Pressure:  | 1010 hpa |
| Test Voltage           | DC 3.7V  |

### 5.7.2 Test Data:

Please Refer to Appendix-BLE for Details.

### 5.7.3 Test Setup

See section 4.5 for test setup description. The photo of test setup please refer to Appendix I Test Setup Photos

## 5.8 Power Spectral Density

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density. |
| Test Method:      | Maximum power spectral density level in the fundamental emission                                                                                                                                                                                                                                                                                                                                                                                               |
| Test Limit:       | For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density. |

### 5.8.1 E.U.T. Operation:

|                        |          |
|------------------------|----------|
| Operating Environment: |          |
| Temperature:           | 23.7 °C  |
| Humidity:              | 53.4 %   |
| Atmospheric Pressure:  | 1010 hpa |
| Test Voltage           | DC 3.7V  |

### 5.8.2 Test Data:

Please Refer to Appendix-BLE for Details.

### 5.8.3 Test Setup

See section 4.5 for test setup description. The photo of test setup please refer to Appendix I Test Setup Photos

## 5.9 Emissions in non-restricted frequency bands

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required. |
| Test Method:      | Emissions in nonrestricted frequency bands                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Test Limit:       | In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required. |
| Procedure:        | ANSI C63.10-2020<br>Section 11.11.1, Section 11.11.2, Section 11.11.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

### 5.9.1 E.U.T. Operation:

|                        |          |
|------------------------|----------|
| Operating Environment: |          |
| Temperature:           | 23.7 °C  |
| Humidity:              | 53.4 %   |
| Atmospheric Pressure:  | 1010 hpa |
| Test Voltage           | DC 3.7V  |

### 5.9.2 Test Data:

Please Refer to Appendix-BLE for Details.

### 5.9.3 Test Setup

See section 4.5 for test setup description. The photo of test setup please refer to Appendix I Test Setup Photos

## 6 Test Setup Photos

Please refer to the Appendix I Test Setup Photos

## 7 EUT Constructional Details (EUT Photos)

Please refer to the Appendix II External Photos & Appendix III External Photos



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**--END OF REPORT--**