

# TEST REPORT

**Applicant:** DONGGUAN HOGNYUANWEI Technology Co.,LTD  
155 East Central Road, Xiansha Second Industrial Zone,  
GaoBu Town, Dongguan City, Guangdong Province

**Address of Applicant:**

**Manufacturer:** DONGGUAN HOGNYUANWEI Technology Co.,LTD  
155 East Central Road, Xiansha Second Industrial Zone,  
GaoBu Town, Dongguan City, Guangdong Province

**Address of Manufacturer:**

**Equipment Under Test (EUT)**

Product Name: media player

Model No.: JR1927M, JR1959AI, JR1803N, JR1835N, JR1844N,  
JR1850N, JR1845N

Trade Mark: N/A

**FCC ID:** 2AWOBJR1927M

**Applicable standards:** FCC CFR Title 47 Part 15 Subpart C Section 15.249

**Date of sample receipt:** Nov. 20, 2020

**Date of Test:** Nov. 20, 2020 ~ Nov. 24, 2020

**Date of report issued:** Nov.24, 2020

**Test Result :** PASS\*

\* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



**Robinson Lo**

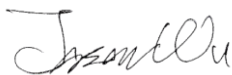
**Laboratory Manager**

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## 2 Version

| Version No. | Date          | Description |
|-------------|---------------|-------------|
| 00          | Nov. 24, 2020 | Original    |
|             |               |             |
|             |               |             |
|             |               |             |
|             |               |             |

Prepared By:

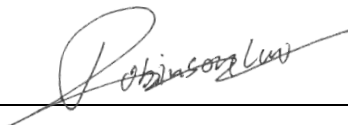


Date:

Nov. 24, 2020

Project Engineer

Check By:



Date:

Nov. 24, 2020

Reviewer

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## 4 Test Summary

| Test Item                                | Section in CFR 47     | Result |
|------------------------------------------|-----------------------|--------|
| Antenna requirement                      | 15.203                | Pass   |
| AC Power Line Conducted Emission         | 15.207                | N/A    |
| Field strength of the fundamental signal | 15.249 (a)            | Pass   |
| Spurious emissions                       | 15.249 (a) (d)/15.209 | Pass   |
| Band edge                                | 15.249 (d)/15.205     | Pass   |
| 20dB Occupied Bandwidth                  | 15.215 (c)            | Pass   |

Pass: The EUT complies with the essential requirements in the standard.

N/A: Not applicant

Remark: Test according to ANSI C63.10:2013.

### 4.1 Measurement Uncertainty

| Test Item                        | Frequency Range | Measurement Uncertainty | Notes |
|----------------------------------|-----------------|-------------------------|-------|
| Radiated Emission                | 30MHz-200MHz    | 3.8039dB                | (1)   |
| Radiated Emission                | 200MHz-1GHz     | 3.9679dB                | (1)   |
| Radiated Emission                | 1GHz-18GHz      | 4.29dB                  | (1)   |
| Radiated Emission                | 18GHz-40GHz     | 3.30dB                  | (1)   |
| AC Power Line Conducted Emission | 0.15MHz ~ 30MHz | 3.44dB                  | (1)   |

Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

## 5 General Information

### 5.1 General Description of EUT

|                                                                                                                                                                      |                                                                |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| Product Name:                                                                                                                                                        | media player                                                   |
| Model No.:                                                                                                                                                           | JR1927M, JR1959AI, JR1803N, JR1835N, JR1844N, JR1850N, JR1845N |
| Test Model No.:                                                                                                                                                      | JR1927M                                                        |
| Remark: All above models are identical in the same PCB layout, interior structure and electrical circuits. The only difference is model name for commercial purpose. |                                                                |
| Serial No.:                                                                                                                                                          | N/A                                                            |
| Hardware Version:                                                                                                                                                    | V1.1                                                           |
| Software Version:                                                                                                                                                    | V1.0                                                           |
| Test sample(s) ID:                                                                                                                                                   | GTSL202011000247-1                                             |
| Sample(s) Status                                                                                                                                                     | Engineered sample                                              |
| Operation Frequency:                                                                                                                                                 | 2402MHz~2480MHz                                                |
| Channel numbers:                                                                                                                                                     | 79                                                             |
| Channel separation:                                                                                                                                                  | 1MHz                                                           |
| Modulation type:                                                                                                                                                     | GFSK, $\pi/4$ -DQPSK, 8-DPSK                                   |
| Antenna Type:                                                                                                                                                        | PCB Antenna                                                    |
| Antenna gain:                                                                                                                                                        | -0.58 dBi(declare by applicant)                                |
| Power supply:                                                                                                                                                        | DC 12V by Adapter AC 120V/50Hz<br>DC 12V battery               |

| Operation Frequency each of channel |           |         |           |         |           |         |           |
|-------------------------------------|-----------|---------|-----------|---------|-----------|---------|-----------|
| Channel                             | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 1                                   | 2402 MHz  | 21      | 2422 MHz  | 41      | 2442 MHz  | 61      | 2462 MHz  |
| 2                                   | 2403 MHz  | 22      | 2423 MHz  | 42      | 2443 MHz  | 62      | 2463 MHz  |
| 3                                   | 2404 MHz  | 23      | 2424 MHz  | 43      | 2444 MHz  | 63      | 2464 MHz  |
| 4                                   | 2405 MHz  | 24      | 2425 MHz  | 44      | 2445 MHz  | 64      | 2465 MHz  |
| 5                                   | 2406 MHz  | 25      | 2426 MHz  | 45      | 2446 MHz  | 65      | 2466 MHz  |
| 6                                   | 2407 MHz  | 26      | 2427 MHz  | 46      | 2447 MHz  | 66      | 2467 MHz  |
| 7                                   | 2408 MHz  | 27      | 2428 MHz  | 47      | 2448 MHz  | 67      | 2468MHz   |
| 8                                   | 2409 MHz  | 28      | 2429 MHz  | 48      | 2449 MHz  | 68      | 2469 MHz  |
| 9                                   | 2410 MHz  | 29      | 2430 MHz  | 49      | 2450 MHz  | 69      | 2470 MHz  |
| 10                                  | 2411 MHz  | 30      | 2431MHz   | 50      | 2451 MHz  | 70      | 2471 MHz  |
| 11                                  | 2412 MHz  | 31      | 2432 MHz  | 51      | 2452 MHz  | 71      | 2472 MHz  |
| 12                                  | 2413 MHz  | 32      | 2433 MHz  | 52      | 2453 MHz  | 72      | 2473 MHz  |
| 13                                  | 2414 MHz  | 33      | 2434 MHz  | 53      | 2454 MHz  | 73      | 2474 MHz  |
| 14                                  | 2415 MHz  | 34      | 2435 MHz  | 54      | 2455 MHz  | 74      | 2475 MHz  |
| 15                                  | 2416 MHz  | 35      | 2436 MHz  | 55      | 2456 MHz  | 75      | 2476 MHz  |
| 16                                  | 2417 MHz  | 36      | 2437 MHz  | 56      | 2457 MHz  | 76      | 2477 MHz  |
| 17                                  | 2418 MHz  | 37      | 2438 MHz  | 57      | 2458 MHz  | 77      | 2478 MHz  |
| 18                                  | 2419 MHz  | 38      | 2439 MHz  | 58      | 2459 MHz  | 78      | 2479 MHz  |
| 19                                  | 2420 MHz  | 39      | 2440 MHz  | 59      | 2460 MHz  | 79      | 2480 MHz  |
| 20                                  | 2421 MHz  | 40      | 2441 MHz  | 60      | 2461 MHz  |         |           |

Note:

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:

| Channel             | Frequency |
|---------------------|-----------|
| The lowest channel  | 2402MHz   |
| The middle channel  | 2441MHz   |
| The Highest channel | 2480MHz   |

## 5.2 Test mode

|                                                                                                                                                                                                                                                                     |                                                 |       |       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|-------|-------|
| Transmitting mode                                                                                                                                                                                                                                                   | Keep the EUT in continuously transmitting mode. |       |       |
| <i>Remark: During the test, the dutycycle &gt;98%, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.</i> |                                                 |       |       |
| Pre-test mode.                                                                                                                                                                                                                                                      |                                                 |       |       |
| We have verified the construction and function in typical operation, The EUT was placed on three different polar directions; i.e. X axis, Y axis, Z axis. which was shown in this test report and defined as follows:                                               |                                                 |       |       |
| Axis                                                                                                                                                                                                                                                                | X                                               | Y     | Z     |
| Field Strength(dBuV/m)                                                                                                                                                                                                                                              | 92.86                                           | 94.61 | 90.56 |
| Final Test Mode:                                                                                                                                                                                                                                                    |                                                 |       |       |
| The EUT was tested in GFSK, $\pi/4$ -DQPSK modulation, and found the GFSK modulation is the worst case. According to ANSI C63.10 standards, the test results are both the “worst case” and “worst setup”:<br>Y axis (see the test setup photo)                      |                                                 |       |       |

## 5.3 Description of Support Units

| Manufacturer  | Description | Model | Serial Number |
|---------------|-------------|-------|---------------|
| Apple adapter | USB Charger | A1443 | N/A           |

## 5.4 Deviation from Standards

|       |
|-------|
| None. |
|-------|

## 5.5 Abnormalities from Standard Conditions

|       |
|-------|
| None. |
|-------|

## 5.6 Test Facility

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

- **FCC —Registration No.: 381383**

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Registration 381383.

- **IC —Registration No.: 9079A**

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A

- **NVLAP (LAB CODE:600179-0)**

Global United Technology Services Co., Ltd., is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP). LAB CODE:600179-0

## 5.7 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

No. 123-128, Tower A, Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102

Tel: 0755-27798480

Fax: 0755-27798960

## 5.8 Additional Instructions

|                   |                                               |
|-------------------|-----------------------------------------------|
| Test Software     | Special test command provided by manufacturer |
| Power level setup | Default                                       |



## 6 Test Instruments list

| Radiated Emission: |                                     |                                |                             |               |                     |                         |
|--------------------|-------------------------------------|--------------------------------|-----------------------------|---------------|---------------------|-------------------------|
| Item               | Test Equipment                      | Manufacturer                   | Model No.                   | Inventory No. | Cal.Date (mm-dd-yy) | Cal.Due date (mm-dd-yy) |
| 1                  | 3m Semi- Anechoic Chamber           | ZhongYu Electron               | 9.2(L)*6.2(W)* 6.4(H)       | GTS250        | July. 02 2020       | July. 01 2025           |
| 2                  | Control Room                        | ZhongYu Electron               | 6.2(L)*2.5(W)* 2.4(H)       | GTS251        | N/A                 | N/A                     |
| 3                  | EMI Test Receiver                   | Rohde & Schwarz                | ESU26                       | GTS203        | June. 25 2020       | June. 24 2021           |
| 4                  | BiConiLog Antenna                   | SCHWARZBECK<br>MESS-ELEKTRONIK | VULB9163                    | GTS214        | June. 25 2020       | June. 24 2021           |
| 5                  | Double -ridged waveguide horn       | SCHWARZBECK<br>MESS-ELEKTRONIK | BBHA 9120 D                 | GTS208        | June. 25 2020       | June. 24 2021           |
| 6                  | Horn Antenna                        | ETS-LINDGREN                   | 3160                        | GTS217        | June. 25 2020       | June. 24 2021           |
| 7                  | EMI Test Software                   | AUDIX                          | E3                          | N/A           | N/A                 | N/A                     |
| 8                  | Coaxial Cable                       | GTS                            | N/A                         | GTS213        | June. 25 2020       | June. 24 2021           |
| 9                  | Coaxial Cable                       | GTS                            | N/A                         | GTS211        | June. 25 2020       | June. 24 2021           |
| 10                 | Coaxial cable                       | GTS                            | N/A                         | GTS210        | June. 25 2020       | June. 24 2021           |
| 11                 | Coaxial Cable                       | GTS                            | N/A                         | GTS212        | June. 25 2020       | June. 24 2021           |
| 12                 | Amplifier(100kHz-3GHz)              | HP                             | 8347A                       | GTS204        | June. 25 2020       | June. 24 2021           |
| 13                 | Amplifier(2GHz-20GHz)               | HP                             | 84722A                      | GTS206        | June. 25 2020       | June. 24 2021           |
| 14                 | Amplifier (18-26GHz)                | Rohde & Schwarz                | AFS33-18002<br>650-30-8P-44 | GTS218        | June. 25 2020       | June. 24 2021           |
| 15                 | Band filter                         | Amindeon                       | 82346                       | GTS219        | June. 25 2020       | June. 24 2021           |
| 16                 | Power Meter                         | Anritsu                        | ML2495A                     | GTS540        | June. 25 2020       | June. 24 2021           |
| 17                 | Power Sensor                        | Anritsu                        | MA2411B                     | GTS541        | June. 25 2020       | June. 24 2021           |
| 18                 | Wideband Radio Communication Tester | Rohde & Schwarz                | CMW500                      | GTS575        | June. 25 2020       | June. 24 2021           |
| 19                 | Splitter                            | Agilent                        | 11636B                      | GTS237        | June. 25 2020       | June. 24 2021           |
| 20                 | Loop Antenna                        | ZHINAN                         | ZN30900A                    | GTS534        | June. 25 2020       | June. 24 2021           |
| 21                 | Breitband hornantenne               | SCHWARZBECK                    | BBHA 9170                   | GTS579        | Oct. 18 2020        | Oct. 17 2021            |
| 22                 | Amplifier                           | TDK                            | PA-02-02                    | GTS574        | Oct. 18 2020        | Oct. 17 2021            |
| 23                 | Amplifier                           | TDK                            | PA-02-03                    | GTS576        | Oct. 18 2020        | Oct. 17 2021            |
| 24                 | PSA Series Spectrum Analyzer        | Rohde & Schwarz                | FSP                         | GTS578        | June. 25 2020       | June. 24 2021           |

| Conducted Emission |                           |                         |                      |               |                     |                         |
|--------------------|---------------------------|-------------------------|----------------------|---------------|---------------------|-------------------------|
| Item               | Test Equipment            | Manufacturer            | Model No.            | Inventory No. | Cal.Date (mm-dd-yy) | Cal.Due date (mm-dd-yy) |
| 1                  | Shielding Room            | ZhongYu Electron        | 7.3(L)x3.1(W)x2.9(H) | GTS252        | May.15 2019         | May.14 2022             |
| 2                  | EMI Test Receiver         | R&S                     | ESCI 7               | GTS552        | June. 25 2020       | June. 24 2021           |
| 3                  | Coaxial Switch            | ANRITSU CORP            | MP59B                | GTS225        | June. 25 2020       | June. 24 2021           |
| 4                  | ENV216 2-L-V-NETZNACHB.DE | ROHDE&SCHWARZ           | ENV216               | GTS226        | June. 25 2020       | June. 24 2021           |
| 5                  | Coaxial Cable             | GTS                     | N/A                  | GTS227        | N/A                 | N/A                     |
| 6                  | EMI Test Software         | AUDIX                   | E3                   | N/A           | N/A                 | N/A                     |
| 7                  | Thermo meter              | KTJ                     | TA328                | GTS233        | June. 25 2020       | June. 24 2021           |
| 8                  | Absorbing clamp           | Elektronik-Feinmechanik | MDS21                | GTS229        | June. 25 2020       | June. 24 2021           |
| 9                  | ISN                       | SCHWARZBECK             | NTFM 8158            | GTD565        | June. 25 2020       | June. 24 2021           |

| RF Conducted Test: |                                                |              |                  |            |                     |                         |
|--------------------|------------------------------------------------|--------------|------------------|------------|---------------------|-------------------------|
| Item               | Test Equipment                                 | Manufacturer | Model No.        | Serial No. | Cal.Date (mm-dd-yy) | Cal.Due date (mm-dd-yy) |
| 1                  | MXA Signal Analyzer                            | Agilent      | N9020A           | GTS566     | June. 25 2020       | June. 24 2021           |
| 2                  | EMI Test Receiver                              | R&S          | ESCI 7           | GTS552     | June. 25 2020       | June. 24 2021           |
| 3                  | Spectrum Analyzer                              | Agilent      | E4440A           | GTS533     | June. 25 2020       | June. 24 2021           |
| 4                  | MXG vector Signal Generator                    | Agilent      | N5182A           | GTS567     | June. 25 2020       | June. 24 2021           |
| 5                  | ESG Analog Signal Generator                    | Agilent      | E4428C           | GTS568     | June. 25 2020       | June. 24 2021           |
| 6                  | USB RF Power Sensor                            | DARE         | RPR3006W         | GTS569     | June. 25 2020       | June. 24 2021           |
| 7                  | RF Switch Box                                  | Shongyi      | RFSW3003328      | GTS571     | June. 25 2020       | June. 24 2021           |
| 8                  | Programmable Constant Temp & Humi Test Chamber | WEWON        | WHTH-150L-40-880 | GTS572     | June. 25 2020       | June. 24 2021           |

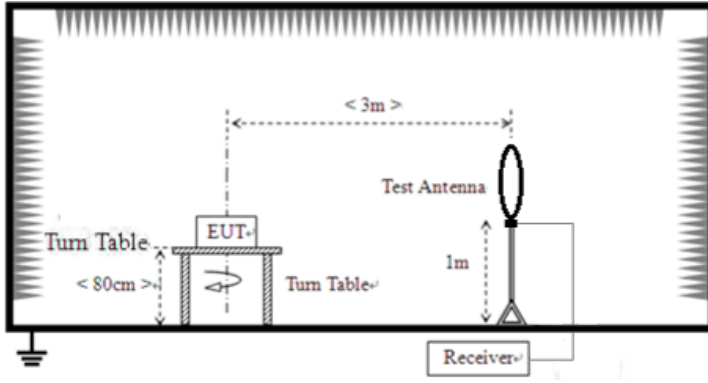
| General used equipment: |                                 |              |           |               |                     |                         |
|-------------------------|---------------------------------|--------------|-----------|---------------|---------------------|-------------------------|
| Item                    | Test Equipment                  | Manufacturer | Model No. | Inventory No. | Cal.Date (mm-dd-yy) | Cal.Due date (mm-dd-yy) |
| 1                       | Humidity/ Temperature Indicator | KTJ          | TA328     | GTS243        | June. 25 2020       | June. 24 2021           |
| 2                       | Barometer                       | ChangChun    | DYM3      | GTS255        | June. 25 2020       | June. 24 2021           |

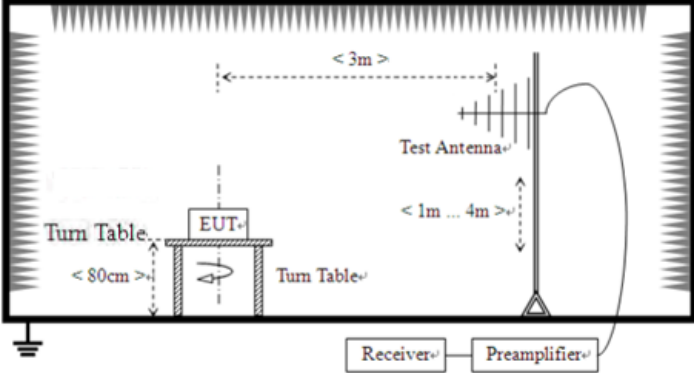
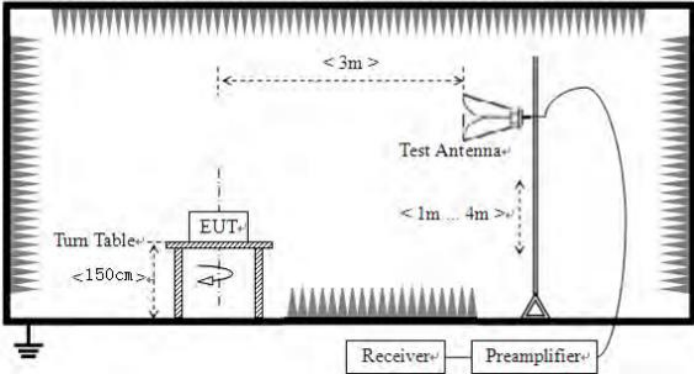
## 7 Test results and Measurement Data

### 7.1 Antenna requirement

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| <b>Standard requirement:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | FCC Part15 C Section 15.203 |
| <p><b>15.203 requirement:</b><br/>An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.</p> <p><b>15.247(c) (1)(i) requirement:</b><br/>(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.</p> |                             |
| <b>EUT Antenna:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                             |
| <p><i>The antenna is PCB antenna, the best case gain of the antenna is -0.58dBi, reference to the appendix II for details.</i></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                             |

## 7.2 Radiated Emission Method

|                                                      |                                                                                                                                                                                                                                                                |            |                    |        |                  |
|------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------------|--------|------------------|
| Test Requirement:                                    | FCC Part15 C Section 15.209&15.249                                                                                                                                                                                                                             |            |                    |        |                  |
| Test Method:                                         | ANSI C63.10:2013                                                                                                                                                                                                                                               |            |                    |        |                  |
| Test Frequency Range:                                | 9kHz to 25GHz                                                                                                                                                                                                                                                  |            |                    |        |                  |
| Test site:                                           | Measurement Distance: 3m                                                                                                                                                                                                                                       |            |                    |        |                  |
| Receiver setup:                                      | Frequency                                                                                                                                                                                                                                                      | Detector   | RBW                | VBW    | Remark           |
|                                                      | 9kHz-150kHz                                                                                                                                                                                                                                                    | Quasi-peak | 200Hz              | 300Hz  | Quasi-peak Value |
|                                                      | 150kHz-30MHz                                                                                                                                                                                                                                                   | Quasi-peak | 9kHz               | 10kHz  | Quasi-peak Value |
|                                                      | 30MHz-1GHz                                                                                                                                                                                                                                                     | Quasi-peak | 120KHz             | 300KHz | Quasi-peak Value |
|                                                      | Above 1GHz                                                                                                                                                                                                                                                     | Peak       | 1MHz               | 3MHz   | Peak Value       |
|                                                      |                                                                                                                                                                                                                                                                | Peak       | 1MHz               | 10Hz   | Average Value    |
| Limit:<br>(Field strength of the fundamental signal) | Frequency                                                                                                                                                                                                                                                      |            | Limit (dBuV/m @3m) |        | Remark           |
|                                                      | 2400MHz-2483.5MHz                                                                                                                                                                                                                                              |            | 94.00              |        | Average Value    |
|                                                      |                                                                                                                                                                                                                                                                |            | 114.00             |        | Peak Value       |
| Limit:<br>(Spurious Emissions)                       | Frequency                                                                                                                                                                                                                                                      |            | Limit (uV/m)       |        | Remark           |
|                                                      | 0.009MHz-0.490MHz                                                                                                                                                                                                                                              |            | 2400/F(kHz) @300m  |        | Quasi-peak Value |
|                                                      | 0.490MHz-1.705MHz                                                                                                                                                                                                                                              |            | 24000/F(kHz) @30m  |        | Quasi-peak Value |
|                                                      | 1.705MHz-30.0MHz                                                                                                                                                                                                                                               |            | 30 @30m            |        | Quasi-peak Value |
|                                                      | 30MHz-88MHz                                                                                                                                                                                                                                                    |            | 100 @3m            |        | Quasi-peak Value |
|                                                      | 88MHz-216MHz                                                                                                                                                                                                                                                   |            | 150 @3m            |        | Quasi-peak Value |
|                                                      | 216MHz-960MHz                                                                                                                                                                                                                                                  |            | 200 @3m            |        | Quasi-peak Value |
|                                                      | 960MHz-1GHz                                                                                                                                                                                                                                                    |            | 500 @3m            |        | Quasi-peak Value |
|                                                      | Above 1GHz                                                                                                                                                                                                                                                     |            | 500 @3m            |        | Average Value    |
| 5000 @3m                                             |                                                                                                                                                                                                                                                                |            | Peak Value         |        |                  |
| Limit:<br>(band edge)                                | Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation. |            |                    |        |                  |
| Test setup:                                          | <div>For radiated emissions from 9kHz to 30MHz</div> <div></div> <div>For radiated emissions from 30MHz to1GHz</div>                                                       |            |                    |        |                  |

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                   |  <p>For radiated emissions above 1GHz</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Test Procedure:   | <ol style="list-style-type: none"> <li>1. The EUT was placed on the top of a rotating table (0.8m for below 1GHz and 1.5 meters for above 1GHz) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</li> <li>4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.</li> <li>5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</li> </ol> |
| Test Instruments: | Refer to section 6.0 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Test mode:        | Refer to section 5.2 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Test environment: | Temp.: 25 °C    Humid.: 52%    Press.: 1012mbar                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Test voltage:     | DC 12V by Adapter AC 120V/50Hz<br>DC 12V battery                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Test results:     | Pass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

## Measurement data:

### 7.2.1 Field Strength of The Fundamental Signal

#### Peak value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 2402            | 102.26            | 22.55                 | 3.25            | 33.45                    | 94.61          | 114                 | -19.39          | Vertical     |
| 2402            | 102.12            | 22.55                 | 3.25            | 33.45                    | 94.47          | 114                 | -19.53          | Horizontal   |
| 2441            | 100.26            | 23.05                 | 3.36            | 33.15                    | 93.52          | 114                 | -20.48          | Vertical     |
| 2441            | 100.87            | 23.05                 | 3.36            | 33.15                    | 94.13          | 114                 | -19.87          | Horizontal   |
| 2480            | 100.65            | 23.57                 | 3.67            | 33.68                    | 94.21          | 114                 | -19.79          | Vertical     |
| 2480            | 100.76            | 23.57                 | 3.67            | 33.68                    | 94.32          | 114                 | -19.68          | Horizontal   |

#### Average value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 2402            | 88.36             | 22.55                 | 3.25            | 33.45                    | 80.71          | 94                  | -13.29          | Vertical     |
| 2402            | 87.89             | 22.55                 | 3.25            | 33.45                    | 80.24          | 94                  | -13.76          | Horizontal   |
| 2441            | 86.66             | 23.05                 | 3.36            | 33.15                    | 79.92          | 94                  | -14.08          | Vertical     |
| 2441            | 85.59             | 23.05                 | 3.36            | 33.15                    | 78.85          | 94                  | -15.15          | Horizontal   |
| 2480            | 85.12             | 23.57                 | 3.67            | 33.68                    | 78.68          | 94                  | -15.32          | Vertical     |
| 2480            | 84.66             | 23.57                 | 3.67            | 33.68                    | 78.22          | 94                  | -15.78          | Horizontal   |

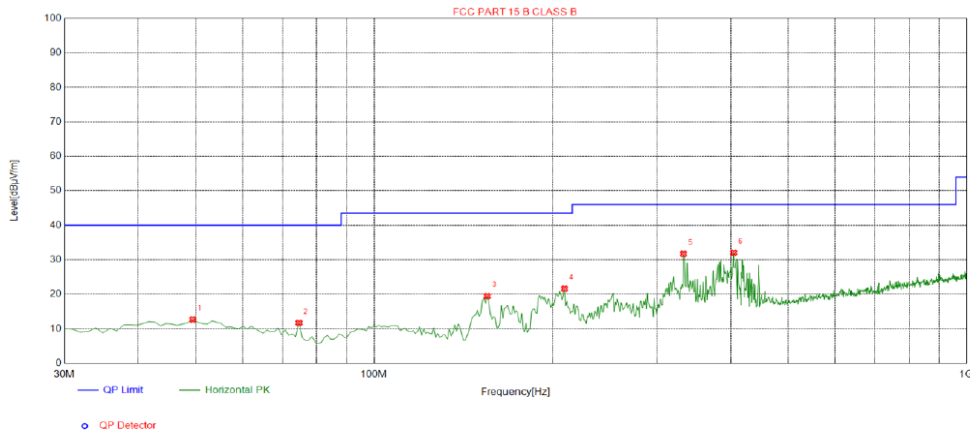
## 7.2.2 Spurious emissions

### ■ Below 30MHz

The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and according to 15.31(o), the test result no need to reported.

### ■ Below 1GHz

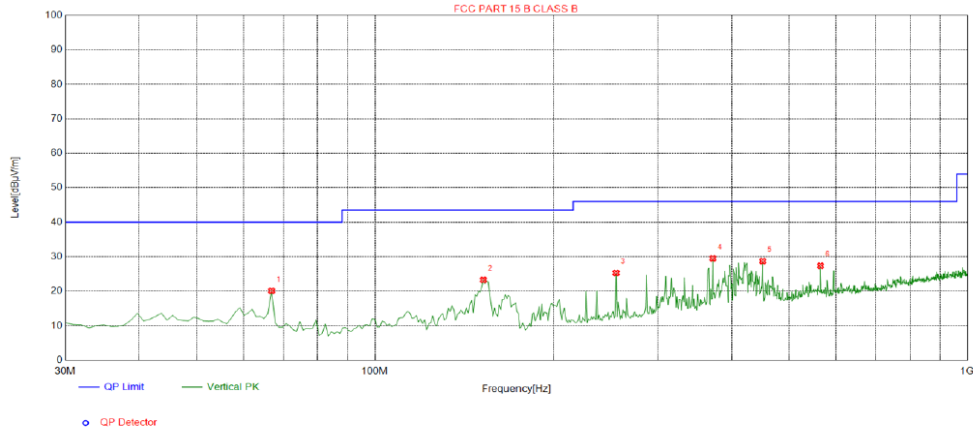
#### Horizontal:



#### Suspected List

| Suspected List |             |             |                  |                |                |             |             |           |            |
|----------------|-------------|-------------|------------------|----------------|----------------|-------------|-------------|-----------|------------|
| NO.            | Freq. [MHz] | Factor [dB] | Reading [dBμV/m] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1              | 49.4194     | -13.65      | 26.34            | 12.69          | 40.00          | 27.31       | 100         | 248       | Horizontal |
| 2              | 74.6647     | -18.51      | 30.22            | 11.71          | 40.00          | 28.29       | 100         | 91        | Horizontal |
| 3              | 155.2553    | -18.56      | 38.04            | 19.48          | 43.50          | 24.02       | 100         | 146       | Horizontal |
| 4              | 209.6296    | -14.81      | 36.40            | 21.59          | 43.50          | 21.91       | 100         | 353       | Horizontal |
| 5              | 332.9429    | -11.60      | 43.32            | 31.72          | 46.00          | 14.28       | 100         | 289       | Horizontal |
| 6              | 404.7948    | -10.32      | 42.39            | 32.07          | 46.00          | 13.93       | 100         | 60        | Horizontal |

## Vertical:



## Suspected List

| Suspected List |             |             |                  |                |                |             |             |           |          |
|----------------|-------------|-------------|------------------|----------------|----------------|-------------|-------------|-----------|----------|
| NO.            | Freq. [MHz] | Factor [dB] | Reading [dBμV/m] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1              | 66.8969     | -16.89      | 37.00            | 20.11          | 40.00          | 19.89       | 100         | 243       | Vertical |
| 2              | 152.3423    | -18.77      | 42.05            | 23.28          | 43.50          | 20.22       | 100         | 195       | Vertical |
| 3              | 255.2653    | -13.46      | 38.76            | 25.30          | 46.00          | 20.70       | 100         | 45        | Vertical |
| 4              | 371.7818    | -10.97      | 40.50            | 29.53          | 46.00          | 16.47       | 100         | 195       | Vertical |
| 5              | 451.4014    | -8.94       | 37.66            | 28.72          | 46.00          | 17.28       | 100         | 262       | Vertical |
| 6              | 565.0050    | -6.54       | 33.91            | 27.37          | 46.00          | 18.63       | 100         | 237       | Vertical |



## ■ Above 1GHz

|               |                |
|---------------|----------------|
| Test channel: | Lowest channel |
|---------------|----------------|

### Peak value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 4804            | 57.85             | 21.52                 | 3.52            | 33.12                    | 49.77          | 74                  | -24.23          | Vertical     |
| 7206            | 52.24             | 23.65                 | 4.56            | 33.08                    | 47.37          | 74                  | -26.63          | Vertical     |
| 9608            | 48.45             | 25.58                 | 6.15            | 33.57                    | 46.61          | 74                  | -27.39          | Vertical     |
| 12010           | 43.37             | 27.68                 | 6.98            | 33.26                    | 44.77          | 74                  | -29.23          | Vertical     |
| 14412           | *                 | *                     | *               | *                        | *              | 74                  | *               | Vertical     |
| 4804            | 56.84             | 21.52                 | 3.52            | 33.12                    | 48.76          | 74                  | -25.24          | Horizontal   |
| 7206            | 51.24             | 23.65                 | 4.56            | 33.08                    | 46.37          | 74                  | -27.63          | Horizontal   |
| 9608            | 47.31             | 25.58                 | 6.15            | 33.57                    | 45.47          | 74                  | -28.53          | Horizontal   |
| 12010           | 44.46             | 27.68                 | 6.98            | 33.26                    | 45.86          | 74                  | -28.14          | Horizontal   |
| 14412           | *                 | *                     | *               | *                        | *              | *                   | *               | Horizontal   |

### Average value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 4804            | 44.15             | 21.52                 | 3.52            | 33.12                    | 36.07          | 54                  | -17.93          | Vertical     |
| 7206            | 41.36             | 23.65                 | 4.56            | 33.08                    | 36.49          | 54                  | -17.51          | Vertical     |
| 9608            | 38.45             | 25.58                 | 6.15            | 33.57                    | 36.61          | 54                  | -17.39          | Vertical     |
| 12010           | 33.64             | 27.68                 | 6.98            | 33.26                    | 35.04          | 54                  | -18.96          | Vertical     |
| 14412           | *                 | *                     | *               | *                        | *              | 54                  | *               | Vertical     |
| 4804            | 42.64             | 21.52                 | 3.52            | 33.12                    | 34.56          | 54                  | -19.44          | Horizontal   |
| 7206            | 38.61             | 23.65                 | 4.56            | 33.08                    | 33.74          | 54                  | -20.26          | Horizontal   |
| 9608            | 36.45             | 25.58                 | 6.15            | 33.57                    | 34.61          | 54                  | -19.39          | Horizontal   |
| 12010           | 31.47             | 27.68                 | 6.98            | 33.26                    | 32.87          | 54                  | -21.13          | Horizontal   |
| 14412           | *                 | *                     | *               | *                        | *              | *                   | *               | Horizontal   |

### Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. The emission levels of other frequencies are very lower than the limit and not show in test report.
3. “\*”, means this data is the too weak instrument of signal is unable to test.

|               |                |
|---------------|----------------|
| Test channel: | Middle channel |
|---------------|----------------|

## Peak value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 4882            | 56.88             | 21.78                 | 3.58            | 33.27                    | 48.97          | 74                  | -25.03          | Vertical     |
| 7323            | 54.21             | 24.15                 | 4.57            | 33.87                    | 49.06          | 74                  | -24.94          | Vertical     |
| 9766            | 52.31             | 26.04                 | 6.24            | 33.19                    | 51.4           | 74                  | -22.6           | Vertical     |
| 12205           | 49.78             | 27.98                 | 7.18            | 33.68                    | 51.26          | 74                  | -22.74          | Vertical     |
| 14646           | *                 | *                     | *               | *                        | *              | *                   | *               | Vertical     |
| 4882            | 55.54             | 21.78                 | 3.58            | 33.27                    | 47.63          | 74                  | -26.37          | Horizontal   |
| 7323            | 53.14             | 24.15                 | 4.57            | 33.87                    | 47.99          | 74                  | -26.01          | Horizontal   |
| 9764            | 48.74             | 26.04                 | 6.24            | 33.19                    | 47.83          | 74                  | -26.17          | Horizontal   |
| 12205           | 45.21             | 27.98                 | 7.18            | 33.68                    | 46.69          | 74                  | -27.31          | Horizontal   |
| 14646           | *                 | *                     | *               | *                        | *              | *                   | *               | Horizontal   |

## Average value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 4882            | 45.57             | 21.78                 | 3.58            | 33.27                    | 37.66          | 54                  | -16.34          | Vertical     |
| 7323            | 42.26             | 24.15                 | 4.57            | 33.87                    | 37.11          | 54                  | -16.89          | Vertical     |
| 9766            | 38.44             | 26.04                 | 6.24            | 33.19                    | 37.53          | 54                  | -16.47          | Vertical     |
| 12205           | 33.56             | 27.98                 | 7.18            | 33.68                    | 35.04          | 54                  | -18.96          | Vertical     |
| 14646           | *                 | *                     | *               | *                        | *              | *                   | *               | Vertical     |
| 4882            | 45.14             | 21.78                 | 3.58            | 33.27                    | 37.23          | 54                  | -16.77          | Horizontal   |
| 7323            | 41.02             | 24.15                 | 4.57            | 33.87                    | 35.87          | 54                  | -18.13          | Horizontal   |
| 9764            | 35.64             | 26.04                 | 6.24            | 33.19                    | 34.73          | 54                  | -19.27          | Horizontal   |
| 12205           | 31.26             | 27.98                 | 7.18            | 33.68                    | 32.74          | 54                  | -21.26          | Horizontal   |
| 14646           | *                 | *                     | *               | *                        | *              | *                   | *               | Horizontal   |

## Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. The emission levels of other frequencies are very lower than the limit and not show in test report.
3. “\*”, means this data is the too weak instrument of signal is unable to test.

|               |                 |
|---------------|-----------------|
| Test channel: | Highest channel |
|---------------|-----------------|

## Peak value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 4960            | 57.12             | 22.56                 | 4.17            | 33.75                    | 50.10          | 74                  | -23.90          | Vertical     |
| 7440            | 52.34             | 24.78                 | 5.36            | 33.17                    | 49.31          | 74                  | -24.69          | Vertical     |
| 9920            | 49.87             | 27.14                 | 6.97            | 33.62                    | 50.36          | 74                  | -23.64          | Vertical     |
| 12400           | 45.23             | 28.16                 | 7.65            | 33.58                    | 47.46          | 74                  | -26.54          | Vertical     |
| 14880           | *                 | *                     | *               | *                        | *              | *                   | *               | Vertical     |
| 4960            | 56.21             | 22.56                 | 4.17            | 33.75                    | 49.19          | 74                  | -24.81          | Horizontal   |
| 7440            | 53.14             | 24.78                 | 5.36            | 33.17                    | 50.11          | 74                  | -23.89          | Horizontal   |
| 9920            | 50.14             | 27.14                 | 6.97            | 33.62                    | 50.63          | 74                  | -23.37          | Horizontal   |
| 12400           | 46.88             | 28.16                 | 7.65            | 33.58                    | 49.11          | 74                  | -24.89          | Horizontal   |
| 14880           | *                 | *                     | *               | *                        | *              | *                   | *               | Horizontal   |

## Average value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 4960            | 47.14             | 22.56                 | 4.17            | 33.75                    | 40.12          | 54                  | -13.88          | Vertical     |
| 7440            | 42.21             | 24.78                 | 5.36            | 33.17                    | 39.18          | 54                  | -14.82          | Vertical     |
| 9920            | 37.14             | 27.14                 | 6.97            | 33.62                    | 37.63          | 54                  | -16.37          | Vertical     |
| 12400           | 32.56             | 28.16                 | 7.65            | 33.58                    | 34.79          | 54                  | -19.21          | Vertical     |
| 14880           | *                 | *                     | *               | *                        | *              | *                   | *               | Vertical     |
| 4960            | 45.51             | 22.56                 | 4.17            | 33.75                    | 38.49          | 54                  | -15.51          | Horizontal   |
| 7440            | 41.21             | 24.78                 | 5.36            | 33.17                    | 38.18          | 54                  | -15.82          | Horizontal   |
| 9920            | 37.65             | 27.14                 | 6.97            | 33.62                    | 38.14          | 54                  | -15.86          | Horizontal   |
| 12400           | 33.45             | 28.16                 | 7.65            | 33.58                    | 35.68          | 54                  | -18.32          | Horizontal   |
| 14880           | *                 | *                     | *               | *                        | *              | *                   | *               | Horizontal   |

## Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. The emission levels of other frequencies are very lower than the limit and not show in test report.
3. “\*”, means this data is the too weak instrument of signal is unable to test.

## 7.2.3 Bandedge emissions

*All of the restriction bands were tested, and only the data of worst case was exhibited.*

|               |                |
|---------------|----------------|
| Test channel: | Lowest channel |
|---------------|----------------|

Peak value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 2310            | 55.57             | 21.25                 | 3.26            | 33.14                    | 46.94          | 74                  | -27.06          | Horizontal   |
| 2400            | 54.26             | 21.75                 | 3.54            | 33.42                    | 46.13          | 74                  | -27.87          | Horizontal   |
| 2310            | 53.21             | 21.25                 | 3.26            | 33.14                    | 44.58          | 74                  | -29.42          | Vertical     |
| 2400            | 51.58             | 21.75                 | 3.54            | 33.42                    | 43.45          | 74                  | -30.55          | Vertical     |

Average value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 2310            | 37.54             | 21.25                 | 3.26            | 33.14                    | 28.91          | 54                  | -25.09          | Horizontal   |
| 2400            | 35.64             | 21.75                 | 3.54            | 33.42                    | 27.51          | 54                  | -26.49          | Horizontal   |
| 2310            | 34.58             | 21.25                 | 3.26            | 33.14                    | 25.95          | 54                  | -28.05          | Vertical     |
| 2400            | 33.56             | 21.75                 | 3.54            | 33.42                    | 25.43          | 54                  | -28.57          | Vertical     |

|               |                 |
|---------------|-----------------|
| Test channel: | Highest channel |
|---------------|-----------------|

Peak value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 2483.5          | 56.23             | 22.12                 | 3.65            | 33.54                    | 48.46          | 74                  | -25.54          | Horizontal   |
| 2500            | 54.21             | 22.35                 | 3.98            | 33.27                    | 47.27          | 74                  | -26.73          | Horizontal   |
| 2483.5          | 53.64             | 22.12                 | 3.65            | 33.54                    | 45.87          | 74                  | -28.13          | Vertical     |
| 2500            | 51.85             | 22.35                 | 3.98            | 33.27                    | 44.91          | 74                  | -29.09          | Vertical     |

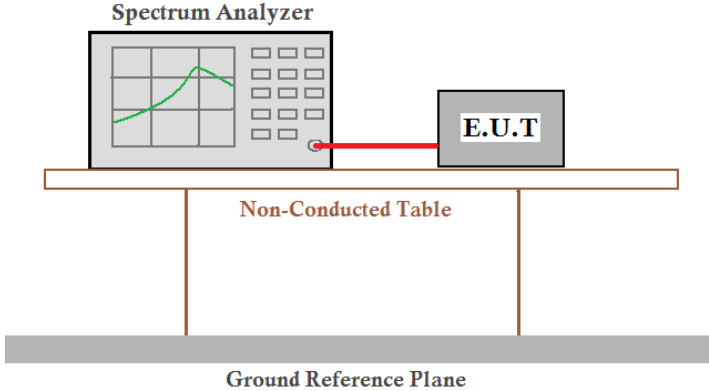
Average value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 2483.5          | 42.14             | 22.12                 | 3.65            | 33.54                    | 34.37          | 54                  | -19.63          | Horizontal   |
| 2500            | 36.54             | 22.35                 | 3.98            | 33.27                    | 29.60          | 54                  | -24.40          | Horizontal   |
| 2483.5          | 35.64             | 22.12                 | 3.65            | 33.54                    | 27.87          | 54                  | -26.13          | Vertical     |
| 2500            | 34.85             | 22.35                 | 3.98            | 33.27                    | 27.91          | 54                  | -26.09          | Vertical     |

Remark:

1. *Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor*

## 7.3 20dB Occupy Bandwidth

|                   |                                                                                                                                                                                                                                                                                                                   |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | FCC Part15 C Section 15.249/15.215                                                                                                                                                                                                                                                                                |
| Test Method:      | ANSI C63.10:2013                                                                                                                                                                                                                                                                                                  |
| Limit:            | Operation Frequency range 2400MHz~2483.5MHz                                                                                                                                                                                                                                                                       |
| Test setup:       |  <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both are placed on a Non-Conducted Table, which is supported by a Ground Reference Plane.</p> |
| Test Instruments: | Refer to section 6.0 for details                                                                                                                                                                                                                                                                                  |
| Test mode:        | Refer to section 5.2 for details                                                                                                                                                                                                                                                                                  |
| Test results:     | Pass                                                                                                                                                                                                                                                                                                              |

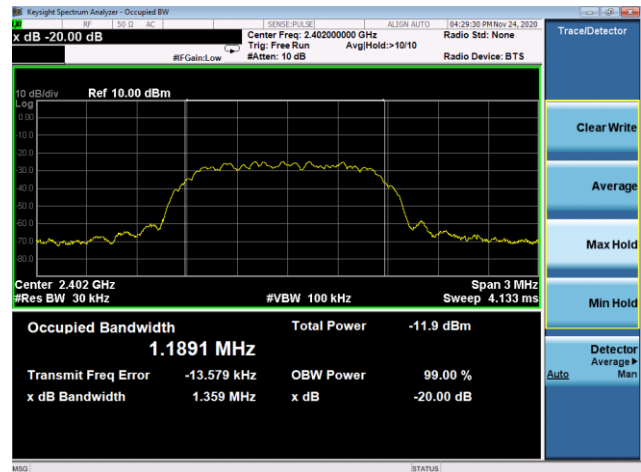
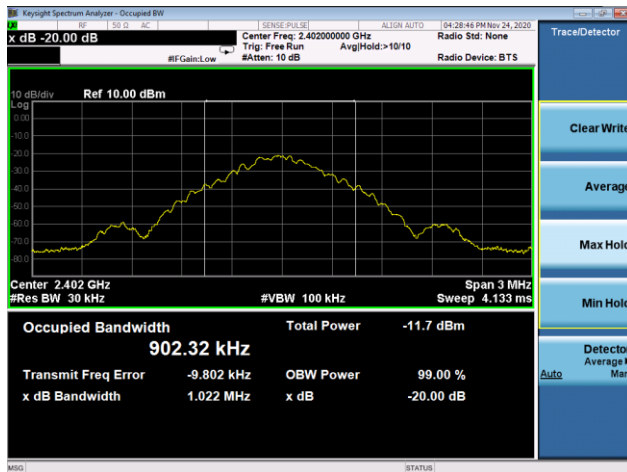
### Measurement Data

BR+EDR

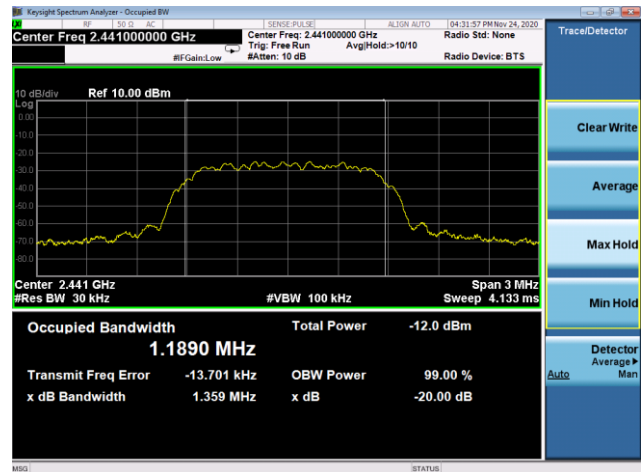
| Test channel   |         | 20dB bandwidth(MHz) | Result |
|----------------|---------|---------------------|--------|
| GFSK           | Lowest  | 0.902               | Pass   |
|                | Middle  | 0.900               | Pass   |
|                | Highest | 0.902               | Pass   |
| $\pi/4$ -DQPSK | Lowest  | 1.189               | Pass   |
|                | Middle  | 1.189               | Pass   |
|                | Highest | 1.189               | Pass   |
| 8-DPSK         | Lowest  | 1.196               | Pass   |
|                | Middle  | 1.195               | Pass   |
|                | Highest | 1.195               | Pass   |

Test plot as follows: BR+EDR  
GFSK

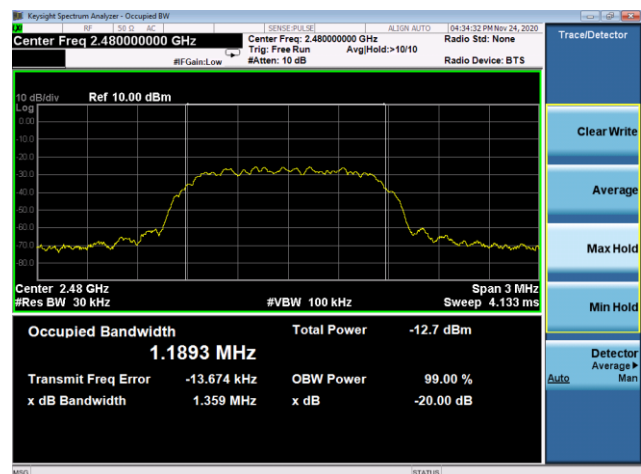
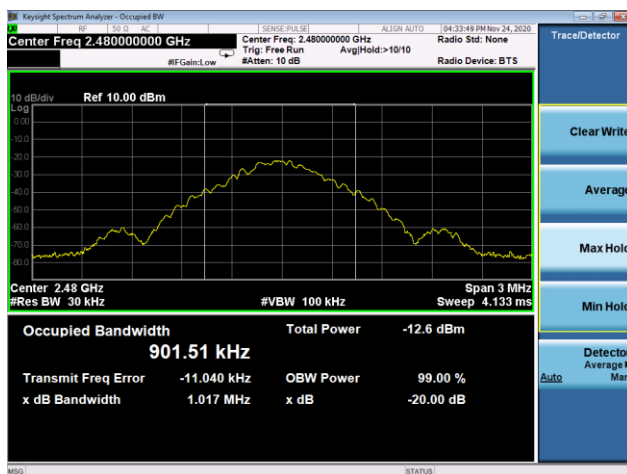
$\pi/4$ -DQPSK



Lowest channel

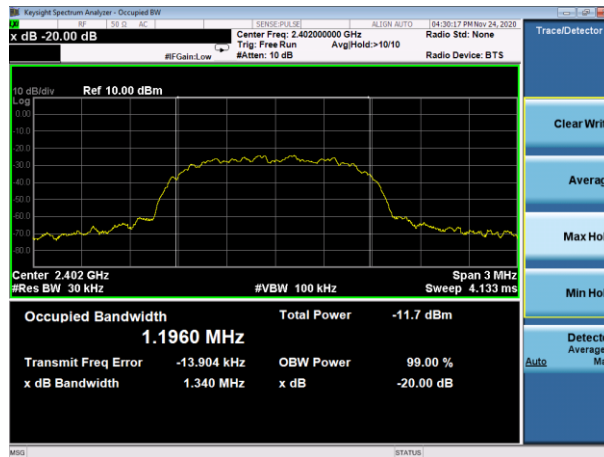


Middle channel



Highest channel

## 8-DPSK



Lowest channel



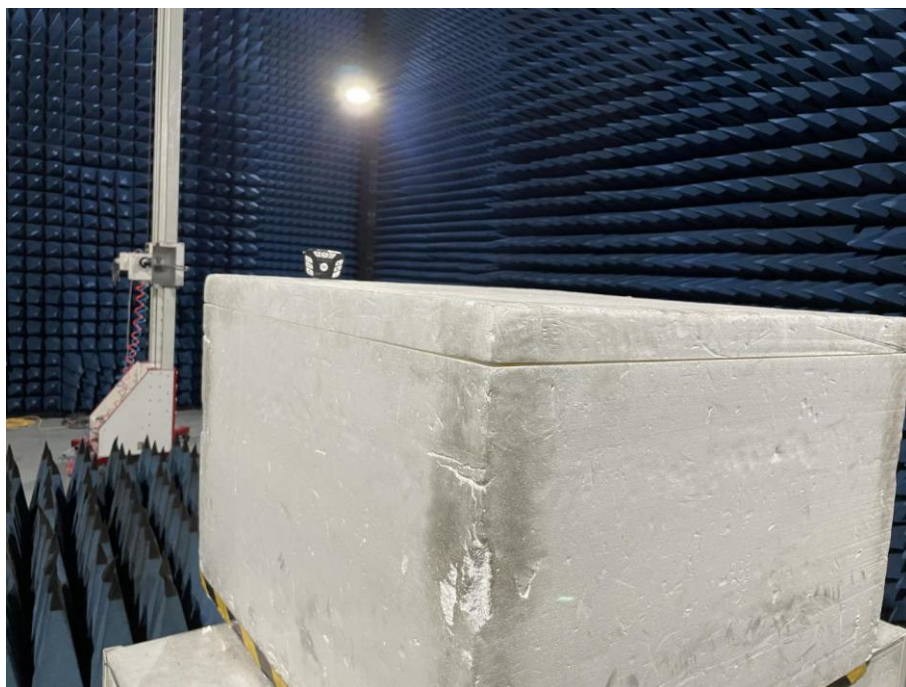
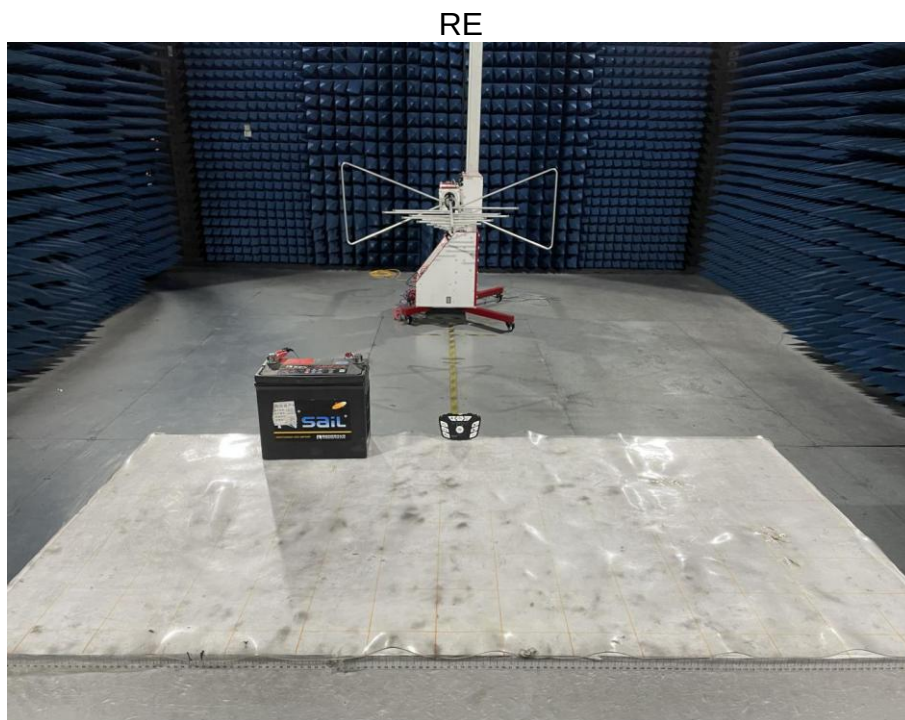
Middle channel



Highest channel



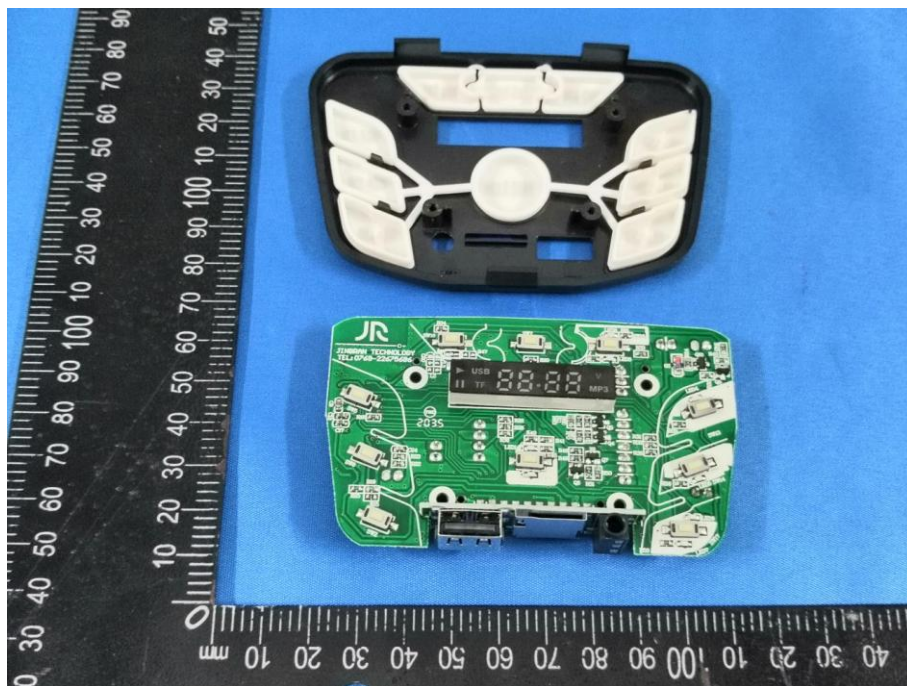
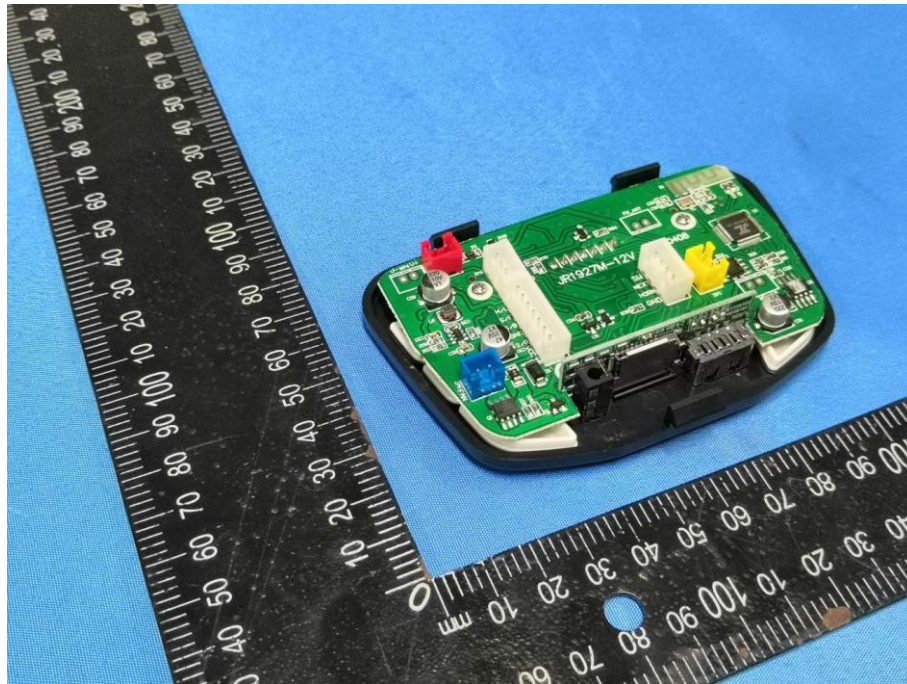
## 8 Test Setup Photo

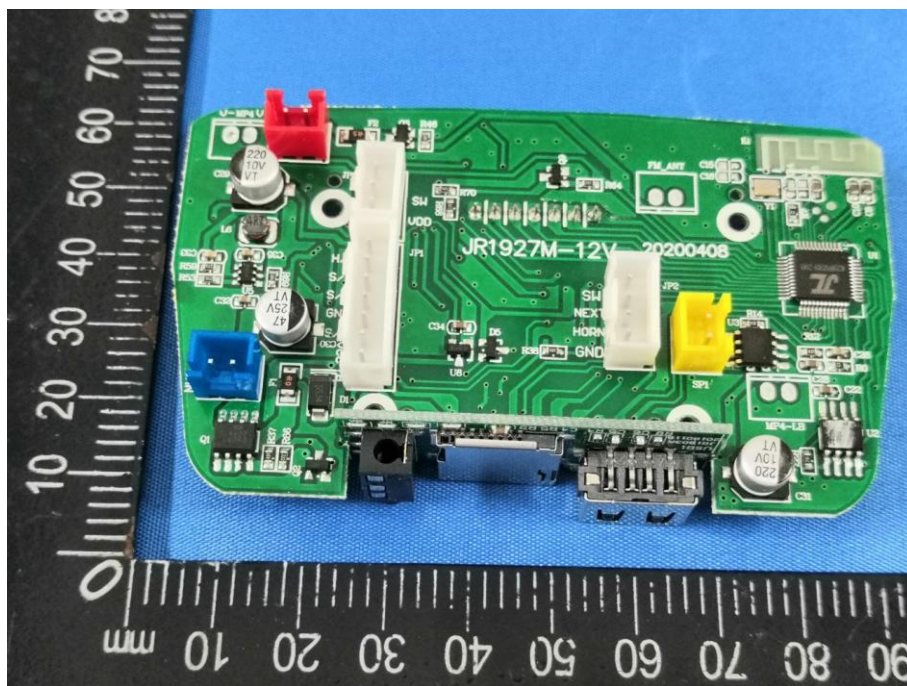
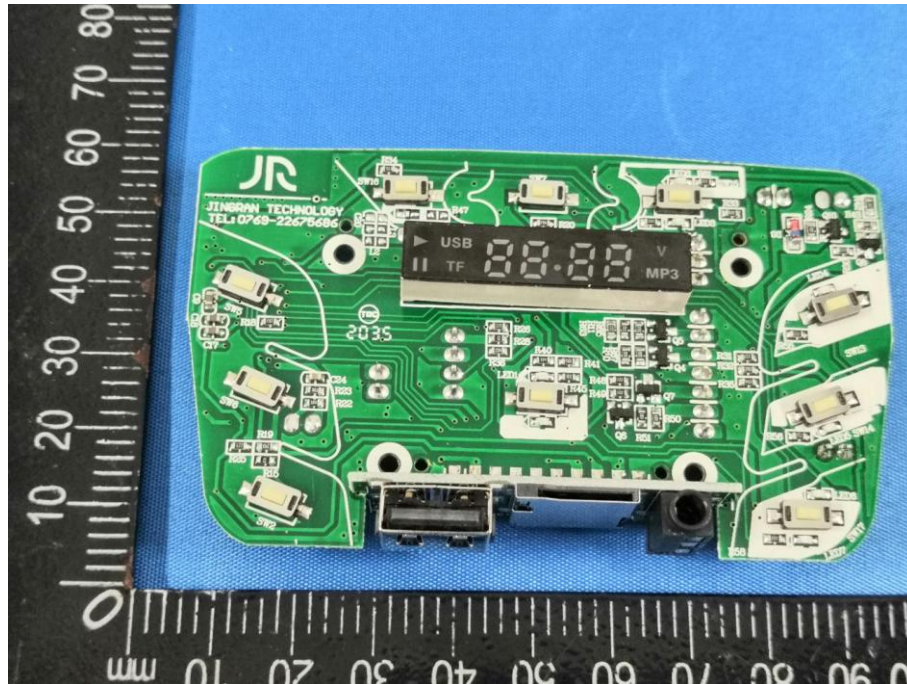


## 9 EUT Constructional Details









-----End-----