



# FCC RF Test Report

## (5G NR)

**Report No.:** JYTSZ-R12-2400055

**Applicant:** INFINIX MOBILITY LIMITED

**Address of Applicant:** FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE  
19-25 SHAN MEI STREET FOTAN NT HONGKONG

**Equipment Under Test (EUT)**

Product Name: Mobile Phone

Model No.: X6851B

Trade Mark: Infinix

**FCC ID:** 2AIZN-X6851B

**Applicable Standards:** FCC CFR Title 47 Part 2, 22H, 27L & M & H & O & Q, 96A

**Date of Sample Receipt:** 11 Jan., 2024

**Date of Test:** 12 Jan., to 12 Mar., 2024

**Date of Report Issued:** 17 Mar., 2024

**Test Result:** PASS

**Project by:**

  
Project Engineer  
Senior Engineer  
James Wei  
Manager

**Date:**

17 Mar., 2024

**Reviewed by:**

**Date:**

17 Mar., 2024

**Approved by:**

**Date:**

17 Mar., 2024

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

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## 1 Version

| Version No. | Date          | Description |
|-------------|---------------|-------------|
| 00          | 17 Mar., 2024 | Original    |
|             |               |             |
|             |               |             |
|             |               |             |
|             |               |             |

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### 3 General Information

#### 3.1 Client Information

|               |                                                                                                                        |
|---------------|------------------------------------------------------------------------------------------------------------------------|
| Applicant:    | INFINIX MOBILITY LIMITED                                                                                               |
| Address:      | FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG                                |
| Manufacturer: | INFINIX MOBILITY LIMITED                                                                                               |
| Address:      | FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG                                |
| Factory:      | SHENZHEN TECNO TECHNOLOGY CO., LTD.                                                                                    |
| Address:      | 101, Building 24, Waijing Industrial Park, Fumin Community, Fucheng Street, Longhua District, Shenzhen City, P.R.China |

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

|                            |                                                 |                                                                                                                                                                                                                                                                                                                  |                                                                  |
|----------------------------|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|
| Product Name:              | Mobile Phone                                    |                                                                                                                                                                                                                                                                                                                  |                                                                  |
| Model No.:                 | X6851B                                          |                                                                                                                                                                                                                                                                                                                  |                                                                  |
| Operation Frequency Range: | Band n5:                                        | Tx: 824 MHz - 849 MHz                                                                                                                                                                                                                                                                                            | Rx: 869 MHz - 894 MHz                                            |
|                            | Band n7:                                        | Tx: 2500 MHz - 2570 MHz                                                                                                                                                                                                                                                                                          | Rx: 2620 MHz - 2690 MHz                                          |
|                            | Band n12:                                       | Tx: 699 MHz - 716 MHz                                                                                                                                                                                                                                                                                            | Rx: 729 MHz - 746 MHz                                            |
|                            | Band n38:                                       | Tx: 2570 MHz - 2620 MHz                                                                                                                                                                                                                                                                                          | Rx: 2570 MHz - 2620 MHz                                          |
|                            | Band n41:                                       | Tx: 2496 MHz - 2690 MHz                                                                                                                                                                                                                                                                                          | Rx: 2496 MHz - 2690 MHz                                          |
|                            | Band n66:                                       | Tx: 1710 MHz - 1780 MHz                                                                                                                                                                                                                                                                                          | Rx: 2110 MHz - 2200 MHz                                          |
|                            | Band n77:                                       | Tx: 3450 MHz - 3550 MHz                                                                                                                                                                                                                                                                                          | Rx: 3450 MHz - 3550 MHz                                          |
|                            | Band n77:                                       | Tx: 3550 MHz - 3700 MHz                                                                                                                                                                                                                                                                                          | Rx: 3550 MHz - 3700 MHz                                          |
|                            | Band n77:                                       | Tx: 3700 MHz - 3980 MHz                                                                                                                                                                                                                                                                                          | Rx: 3700 MHz - 3980 MHz                                          |
|                            | Band n78:                                       | Tx: 3450 MHz - 3550 MHz                                                                                                                                                                                                                                                                                          | Rx: 3450 MHz - 3550 MHz                                          |
|                            | Band n78:                                       | Tx: 3550 MHz - 3700 MHz                                                                                                                                                                                                                                                                                          | Rx: 3550 MHz - 3700 MHz                                          |
|                            | Band n78:                                       | Tx: 3700 MHz - 3800 MHz                                                                                                                                                                                                                                                                                          | Rx: 3700 MHz - 3800 MHz                                          |
|                            | Band n78:                                       | Tx: 3700 MHz - 3800 MHz                                                                                                                                                                                                                                                                                          | Rx: 3700 MHz - 3800 MHz                                          |
| Modulation Type:           | <input checked="" type="checkbox"/> DFT-s-OFDM: | Pi/2-BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM                                                                                                                                                                                                                                                                         |                                                                  |
|                            | <input checked="" type="checkbox"/> CP-OFDM:    | QPSK, 16-QAM, 64-QAM, 256-QAM                                                                                                                                                                                                                                                                                    |                                                                  |
| Network Mode:              | <input checked="" type="checkbox"/> SA:         | N5, n7, n12, n38, n41, n66, n77, n78                                                                                                                                                                                                                                                                             |                                                                  |
|                            | <input checked="" type="checkbox"/> CA:         | CA_N41A_N78A(Only supports downlink CA)                                                                                                                                                                                                                                                                          |                                                                  |
|                            | <input checked="" type="checkbox"/> NSA(EN-DC): | DC_2A_n7A, DC_5A_n7A, DC_7A_n7A, DC_66A_n7A, DC_5A_n38A, DC_66A_n38A, DC_4A_n41A, DC_5A_n41A, DC_41A_n41A, DC_66A_n41A, DC_2A_n66A, DC_5A_n66A, DC_7A_n66A, DC_66A_n66A, DC_2A_n78A, DC_4A_n78A, DC_5A_n78A, DC_7A_n78A, DC_38A_n78A, DC_41A_n78A, DC_66A_n78A, DC_5A_n77A, DC_7A_n77A, DC_41A_n77A, DC_66A_n77A |                                                                  |
|                            |                                                 | EN-DC with LTE 2CA:<br>DC_7C_n78A, DC_41C_n78A, DC_7C_n77A, DC_41C_n77A, DC_41C_n41A, DC_7A_7A_n78A, DC_2A_7A_n78, DC_2A_66A_n78, DC_5A_7A_n78A, DC_2A_7C_n78<br>(LTE Band 7C and 41C only supports downlink)                                                                                                    |                                                                  |
| SCS Support:               | <input checked="" type="checkbox"/> 15 kHz      | <input checked="" type="checkbox"/> 30 kHz                                                                                                                                                                                                                                                                       | <input type="checkbox"/> 60 kHz <input type="checkbox"/> 120 kHz |
| Antenna Type:              | Internal Antenna                                |                                                                                                                                                                                                                                                                                                                  |                                                                  |
| Antenna Gain:              | Band n5:                                        | ANT1: -6.80dBi (declare by Applicant)                                                                                                                                                                                                                                                                            |                                                                  |

|                        |                                                                                                                                             |                                                                             |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
|                        | Band n7:                                                                                                                                    | ANT2: -3.76 dBi (declare by Applicant)<br>ANT6: -1.84(declare by Applicant) |
|                        | Band n12:                                                                                                                                   | ANT1: -8.16 dBi (declare by Applicant)                                      |
|                        | Band n38:                                                                                                                                   | ANT2: -3.76dBi (declare by Applicant)                                       |
|                        | Band n41:                                                                                                                                   | ANT2: -3.76dBi (declare by Applicant)                                       |
|                        | Band n66:                                                                                                                                   | ANT2: -4.38dBi (declare by Applicant)<br>ANT6: -1.74(declare by Applicant)  |
|                        | Band n77:                                                                                                                                   | ANT7: -1.85dBi (declare by Applicant)                                       |
|                        | Band n78:                                                                                                                                   | ANT7: -1.85dBi (declare by Applicant)                                       |
| Power Supply:          | Rechargeable Li-ion Polymer Battery DC3.91V, 4500mAh                                                                                        |                                                                             |
| AC Adapter:            | Model: U1000XSA<br>Input: AC100-240V, 50/60Hz, 2.3A<br>Output: DC 5.0V, 3.0A 15.0W or DC 5.0V-11.0V, 9.1A or DC 4.0V-20.0V, 5.0A 100.0W MAX |                                                                             |
| Test Sample Condition: | The test samples were provided in good working order with no visible defects.                                                               |                                                                             |

### 3.3 Test Mode and Environment

| Test Mode:                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| DFT-s-OFDM access mode:                                                                                                                                                                                                                                                                                                                                                                 | Keep the EUT communication with simulated station in Pi/2-BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM modulation of DFT-s-OFDM access mode. |
| CP-OFDM access mode:                                                                                                                                                                                                                                                                                                                                                                    | Keep the EUT communication with simulated station in Pi/2-BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM modulation of CP-OFDM access mode.    |
| <b>Remark:</b> The EUT has been tested under continuous transmitting mode. Channel Low, Mid and High for each type band with rated data rate were chosen for full testing. The field strength of spurious radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for these modes. Just the worst case position (H mode) shown in report. |                                                                                                                                     |
| Operating Environment:                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                     |
| Temperature:                                                                                                                                                                                                                                                                                                                                                                            | 15℃ ~ 35℃                                                                                                                           |
| Humidity:                                                                                                                                                                                                                                                                                                                                                                               | 20 % ~ 75 % RH                                                                                                                      |
| Atmospheric Pressure:                                                                                                                                                                                                                                                                                                                                                                   | 1008 mbar                                                                                                                           |
| Voltage:                                                                                                                                                                                                                                                                                                                                                                                | Nominal: 3.91 Vdc, Extreme: Low 3.45 Vdc, High 4.50 Vdc                                                                             |
| Test Engineer:                                                                                                                                                                                                                                                                                                                                                                          | Lucas Ding (Conducted measurement)                                                                                                  |

### 3.4 Description of Test Auxiliary Equipment

| Test Equipment                | Manufacturer | Model No. | Serial No. |
|-------------------------------|--------------|-----------|------------|
| UXM 5G Wireless Test Platform | KEYSIGHT     | E7515B    | MY60192444 |

### 3.5 Measurement Uncertainty

Please refer to FCC ID: 2AIZN-X6851, report No.: JYTSZ-R12-2301780.

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

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

### 3.7 Laboratory Facility

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>The test facility is recognized, certified, or accredited by the following organizations:</p> <ul style="list-style-type: none"> <li>● <b>FCC - Designation No.: CN1211</b><br/>JianYan Testing Group Shenzhen Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.</li> <li>● <b>ISED – CAB identifier.: CN0021</b><br/>The 3m Semi-anechoic chamber and 10m Semi-anechoic chamber of JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.</li> <li>● <b>CNAS - Registration No.: CNAS L15527</b><br/>JianYan Testing Group Shenzhen Co., Ltd. is accredited to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L15527.</li> <li>● <b>A2LA - Registration No.: 4346.01</b><br/>This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: <a href="https://portal.a2la.org/scopepdf/4346-01.pdf">https://portal.a2la.org/scopepdf/4346-01.pdf</a></li> </ul> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### 3.8 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd.

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

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

### 3.9 Test Instruments List

| Conducted Method:             |              |             |                  |                      |                          |
|-------------------------------|--------------|-------------|------------------|----------------------|--------------------------|
| Test Equipment                | Manufacturer | Model No.   | Manage No.       | Cal. Date (mm-dd-yy) | Cal. Due date (mm-dd-yy) |
| Spectrum Analyzer             | Keysight     | N9010B      | WXJ004-2         | 09-25-2023           | 09-24-2024               |
| UXM 5G Wireless Test Platform | Keysight     | E7515B      | WXJ008-6         | 09-25-2023           | 09-24-2024               |
| Temperature Humidity Chamber  | HONG ZHI     | CZ-A-80D    | WXJ032-2         | 01-09-2023           | 01-08-2025               |
| RF Control Box                | MWRF-test    | MW400-RFCB  | WXG005           | N/A                  |                          |
| Automatic Filter Box          | MWRF-test    | MW400-SFCB1 | WXG005-1         | N/A                  |                          |
| Automatic Filter Box          | MWRF-test    | MW400-SFCB2 | WXG005-2         | N/A                  |                          |
| DC Power Supply               | Keysight     | E3642A      | WXJ025-3         | N/A                  |                          |
| Test Software                 | MWRF-test    | MTS 8200 NR | Version: 2.0.0.0 |                      |                          |

## 4 Measurement Setup and Procedure

### 4.1 Test Channel

According to ANSI C63.26-2015 chapter 5.1.2.1 Table 2 requirement, select lowest channel, middle channel, and highest channel in the frequency range in which device operates for testing. The detailed frequency points are as follows:

| Band n5, SCS: 15 kHz |        |                 |          |        |                 |
|----------------------|--------|-----------------|----------|--------|-----------------|
| Channels             | ARFCN  | Frequency (MHz) | Channels | ARFCN  | Frequency (MHz) |
| 5 MHz                |        |                 | 10 MHz   |        |                 |
| Lowest               | 165300 | 826.5           | Lowest   | 165800 | 829.0           |
| Middle               | 167300 | 836.5           | Middle   | 167300 | 836.5           |
| Highest              | 169300 | 846.5           | Highest  | 168800 | 844.0           |
| 15 MHz               |        |                 | 20 MHz   |        |                 |
| Lowest               | 166300 | 831.5           | Lowest   | 166800 | 834.0           |
| Middle               | 167300 | 836.5           | Middle   | 167300 | 836.5           |
| Highest              | 168300 | 841.5           | Highest  | 167800 | 839.0           |
| Band n5, SCS: 30 kHz |        |                 |          |        |                 |
| Channels             | ARFCN  | Frequency (MHz) | Channels | ARFCN  | Frequency (MHz) |
| 10 MHz               |        |                 | 15 MHz   |        |                 |
| Lowest               | 165800 | 829.0           | Lowest   | 166300 | 831.5           |
| Middle               | 167300 | 836.5           | Middle   | 167300 | 836.5           |
| Highest              | 168800 | 844.0           | Highest  | 168300 | 841.5           |
| 20 MHz               |        |                 |          |        |                 |
| Lowest               | 166800 | 834.0           |          |        |                 |
| Middle               | 167300 | 836.5           |          |        |                 |
| Highest              | 167800 | 839.0           |          |        |                 |
| Band n7, SCS: 15 kHz |        |                 |          |        |                 |
| Channels             | ARFCN  | Frequency (MHz) | Channels | ARFCN  | Frequency (MHz) |
| 5 MHz                |        |                 | 10 MHz   |        |                 |
| Lowest               | 500500 | 2502.5          | Lowest   | 501000 | 2505.0          |
| Middle               | 507000 | 2535.0          | Middle   | 507000 | 2535.0          |
| Highest              | 513500 | 2567.5          | Highest  | 513000 | 2565.0          |
| 15 MHz               |        |                 | 20 MHz   |        |                 |
| Lowest               | 501500 | 2507.5          | Lowest   | 502000 | 2510.0          |
| Middle               | 507000 | 2535.0          | Middle   | 507000 | 2535.0          |
| Highest              | 512500 | 2562.5          | Highest  | 512000 | 2560.0          |
| Band n7, SCS: 30 kHz |        |                 |          |        |                 |
| Channels             | ARFCN  | Frequency (MHz) | Channels | ARFCN  | Frequency (MHz) |
| 10 MHz               |        |                 | 15 MHz   |        |                 |
| Lowest               | 501000 | 2505.0          | Lowest   | 501500 | 2507.5          |
| Middle               | 507000 | 2535.0          | Middle   | 507000 | 2535.0          |
| Highest              | 513000 | 2565.0          | Highest  | 512500 | 2562.5          |
| 20 MHz               |        |                 |          |        |                 |
| Lowest               | 502000 | 2510.0          |          |        |                 |
| Middle               | 507000 | 2535.0          |          |        |                 |
| Highest              | 512000 | 2560.0          |          |        |                 |



| Band n12, SCS: 15 kHz |        |                 |          |        |                 |
|-----------------------|--------|-----------------|----------|--------|-----------------|
| Channels              | ARFCN  | Frequency (MHz) | Channels | ARFCN  | Frequency (MHz) |
| 5 MHz                 |        |                 | 10 MHz   |        |                 |
| Lowest                | 140300 | 701.5           | Lowest   | 140800 | 704.0           |
| Middle                | 141500 | 707.5           | Middle   | 141500 | 707.5           |
| Highest               | 142700 | 713.5           | Highest  | 142200 | 711.0           |
| 15 MHz                |        |                 |          |        |                 |
| Lowest                | 141300 | 706.5           |          |        |                 |
| Middle                | 141500 | 707.5           |          |        |                 |
| Highest               | 141700 | 708.5           |          |        |                 |
| Band n12, SCS: 30 kHz |        |                 |          |        |                 |
| Channels              | ARFCN  | Frequency (MHz) | Channels | ARFCN  | Frequency (MHz) |
| 10 MHz                |        |                 | 15 MHz   |        |                 |
| Lowest                | 140800 | 704.0           | Lowest   | 141300 | 706.5           |
| Middle                | 141500 | 707.5           | Middle   | 141500 | 707.5           |
| Highest               | 142200 | 711.0           | Highest  | 141700 | 708.5           |
| Band n38, SCS: 15 kHz |        |                 |          |        |                 |
| Channels              | ARFCN  | Frequency (MHz) | Channels | ARFCN  | Frequency (MHz) |
| 5 MHz                 |        |                 | 10 MHz   |        |                 |
| Lowest                | 514500 | 2572.5          | Lowest   | 515000 | 2575.0          |
| Middle                | 518500 | 2592.5          | Middle   | 519000 | 2595.0          |
| Highest               | 523500 | 2617.5          | Highest  | 523000 | 2615.0          |
| 15 MHz                |        |                 | 20 MHz   |        |                 |
| Lowest                | 515500 | 2577.5          | Lowest   | 516000 | 2580.0          |
| Middle                | 519000 | 2595.0          | Middle   | 519000 | 2595.0          |
| Highest               | 522500 | 2612.5          | Highest  | 522000 | 2610.0          |
| 40 MHz                |        |                 |          |        |                 |
| Lowest                | 518000 | 2590.0          |          |        |                 |
| Middle                | 519000 | 2595.0          |          |        |                 |
| Highest               | 520000 | 2600.0          |          |        |                 |
| Band n38, SCS: 30 kHz |        |                 |          |        |                 |
| Channels              | ARFCN  | Frequency (MHz) | Channels | ARFCN  | Frequency (MHz) |
| 10 MHz                |        |                 | 15 MHz   |        |                 |
| Lowest                | 515000 | 2575.0          | Lowest   | 515500 | 2577.5          |
| Middle                | 519000 | 2595.0          | Middle   | 519000 | 2595.0          |
| Highest               | 523000 | 2615.0          | Highest  | 522500 | 2612.5          |
| 20 MHz                |        |                 | 40 MHz   |        |                 |
| Lowest                | 516000 | 2580.0          | Lowest   | 518000 | 2590.0          |
| Middle                | 519000 | 2595.0          | Middle   | 519000 | 2595.0          |
| Highest               | 522000 | 2610.0          | Highest  | 520000 | 2600.0          |

| Band n41, SCS: 15 kHz |        |                 |          |        |                 |
|-----------------------|--------|-----------------|----------|--------|-----------------|
| Channels              | ARFCN  | Frequency (MHz) | Channels | ARFCN  | Frequency (MHz) |
| 10 MHz                |        |                 | 15 MHz   |        |                 |
| Lowest                | 500202 | 2501.010        | Lowest   | 500700 | 2503.500        |
| Middle                | 518601 | 2593.005        | Middle   | 518601 | 2593.005        |
| Highest               | 537000 | 2685.000        | Highest  | 536499 | 2682.495        |
| 20 MHz                |        |                 | 30 MHz   |        |                 |
| Lowest                | 501201 | 2506.005        | Lowest   | 502200 | 2511.000        |
| Middle                | 518601 | 2593.005        | Middle   | 518601 | 2593.005        |
| Highest               | 535998 | 2679.990        | Highest  | 534999 | 2674.995        |
| 40 MHz                |        |                 | 50 MHz   |        |                 |
| Lowest                | 503202 | 2516.010        | Lowest   | 504201 | 2521.005        |
| Middle                | 518601 | 2593.005        | Middle   | 518601 | 2593.005        |
| Highest               | 534000 | 2670.000        | Highest  | 532998 | 2664.990        |
| Band n41, SCS: 30 kHz |        |                 |          |        |                 |
| Channels              | ARFCN  | Frequency (MHz) | Channels | ARFCN  | Frequency (MHz) |
| 10 MHz                |        |                 | 15 MHz   |        |                 |
| Lowest                | 500202 | 2501.010        | Lowest   | 500700 | 2503.500        |
| Middle                | 518598 | 2592.990        | Middle   | 518598 | 2592.990        |
| Highest               | 537000 | 2685.000        | Highest  | 536496 | 2682.480        |
| 20 MHz                |        |                 | 30 MHz   |        |                 |
| Lowest                | 501204 | 2506.020        | Lowest   | 502200 | 2511.000        |
| Middle                | 518598 | 2592.990        | Middle   | 518598 | 2592.990        |
| Highest               | 535998 | 2679.990        | Highest  | 534996 | 2674.980        |
| 40 MHz                |        |                 | 50 MHz   |        |                 |
| Lowest                | 503202 | 2516.010        | Lowest   | 504204 | 2521.020        |
| Middle                | 518598 | 2592.990        | Middle   | 518598 | 2592.990        |
| Highest               | 534000 | 2670.000        | Highest  | 532998 | 2664.990        |
| 60 MHz                |        |                 | 80 MHz   |        |                 |
| Lowest                | 505200 | 2526.000        | Lowest   | 507204 | 2536.020        |
| Middle                | 518598 | 2592.990        | Middle   | 518598 | 2592.990        |
| Highest               | 531996 | 2659.980        | Highest  | 52998  | 2649.990        |
| 90 MHz                |        |                 | 100 MHz  |        |                 |
| Lowest                | 508200 | 2541.000        | Lowest   | 509202 | 2546.010        |
| Middle                | 518598 | 2592.990        | Middle   | 518598 | 2592.990        |
| Highest               | 528996 | 2644.980        | Highest  | 528000 | 2640.000        |

| Band n66, SCS: 15 kHz |        |                 |          |        |                 |
|-----------------------|--------|-----------------|----------|--------|-----------------|
| Channels              | ARFCN  | Frequency (MHz) | Channels | ARFCN  | Frequency (MHz) |
| 5 MHz                 |        |                 | 10 MHz   |        |                 |
| Lowest                | 342500 | 1712.5          | Lowest   | 343000 | 1715.0          |
| Middle                | 349000 | 1745.0          | Middle   | 349000 | 1745.0          |
| Highest               | 355500 | 1777.5          | Highest  | 355000 | 1775.0          |
| 15 MHz                |        |                 | 20 MHz   |        |                 |
| Lowest                | 343500 | 1717.5          | Lowest   | 344000 | 1720.0          |
| Middle                | 349000 | 1745.0          | Middle   | 349000 | 1745.0          |
| Highest               | 354500 | 1772.5          | Highest  | 354000 | 1770.0          |
| 40 MHz                |        |                 |          |        |                 |
| Lowest                | 346000 | 1730.0          |          |        |                 |
| Middle                | 349000 | 1745.0          |          |        |                 |
| Highest               | 352000 | 1760.0          |          |        |                 |
| Band n66, SCS: 30 kHz |        |                 |          |        |                 |
| Channels              | ARFCN  | Frequency (MHz) | Channels | ARFCN  | Frequency (MHz) |
| 10 MHz                |        |                 | 15 MHz   |        |                 |
| Lowest                | 343000 | 1715.0          | Lowest   | 343500 | 1717.5          |
| Middle                | 349000 | 1745.0          | Middle   | 349000 | 1745.0          |
| Highest               | 355000 | 1775.0          | Highest  | 354500 | 1772.5          |
| 20 MHz                |        |                 | 40 MHz   |        |                 |
| Lowest                | 344000 | 1720.0          | Lowest   | 346000 | 1730.0          |
| Middle                | 349000 | 1745.0          | Middle   | 349000 | 1745.0          |
| Highest               | 354000 | 1770.0          | Highest  | 352000 | 1760.0          |

| Band n77/ (3450-3550), SCS: 15 kHz --Include n78(3450-3550) , SCS: 15 kHz |        |                 |                |        |                 |
|---------------------------------------------------------------------------|--------|-----------------|----------------|--------|-----------------|
| Channels                                                                  | ARFCN  | Frequency (MHz) | Channels       | ARFCN  | Frequency (MHz) |
| <b>10 MHz</b>                                                             |        |                 | <b>15 MHz</b>  |        |                 |
| Lowest                                                                    | 630334 | 3455.010        | Lowest         | 630500 | 3457.500        |
| Middle                                                                    | 633333 | 3499.995        | Middle         | 633333 | 3499.995        |
| Highest                                                                   | 636333 | 3544.995        | Highest        | 636166 | 3542.490        |
| <b>20 MHz</b>                                                             |        |                 | <b>30 MHz</b>  |        |                 |
| Lowest                                                                    | 630667 | 3460.005        | Lowest         | 631000 | 3465.000        |
| Middle                                                                    | 633333 | 3499.995        | Middle         | 633333 | 3499.995        |
| Highest                                                                   | 636000 | 3540.000        | Highest        | 635666 | 3534.990        |
| <b>40 MHz</b>                                                             |        |                 | <b>50 MHz</b>  |        |                 |
| Lowest                                                                    | 631334 | 3470.010        | Lowest         | 631667 | 3475.005        |
| Middle                                                                    | 633333 | 3499.995        | Middle         | 633333 | 3499.995        |
| Highest                                                                   | 635333 | 3529.995        | Highest        | 635000 | 3525.000        |
| Band n77(3450-3550), SCS: 30 kHz-- Include n78(3450-3550) , SCS: 30kHz    |        |                 |                |        |                 |
| Channels                                                                  | ARFCN  | Frequency (MHz) | Channels       | ARFCN  | Frequency (MHz) |
| <b>10 MHz</b>                                                             |        |                 | <b>15 MHz</b>  |        |                 |
| Lowest                                                                    | 630334 | 3455.010        | Lowest         | 630500 | 3457.500        |
| Middle                                                                    | 633334 | 3500.010        | Middle         | 633334 | 3500.010        |
| Highest                                                                   | 636332 | 3544.980        | Highest        | 636166 | 3542.490        |
| <b>20 MHz</b>                                                             |        |                 | <b>30 MHz</b>  |        |                 |
| Lowest                                                                    | 630668 | 3460.020        | Lowest         | 631000 | 3465.000        |
| Middle                                                                    | 633334 | 3500.010        | Middle         | 633334 | 3500.010        |
| Highest                                                                   | 636000 | 3540.000        | Highest        | 635666 | 3534.990        |
| <b>40 MHz</b>                                                             |        |                 | <b>50 MHz</b>  |        |                 |
| Lowest                                                                    | 631334 | 3470.010        | Lowest         | 631668 | 3475.020        |
| Middle                                                                    | 633334 | 3500.010        | Middle         | 633334 | 3500.010        |
| Highest                                                                   | 635332 | 3529.980        | Highest        | 635000 | 3525.000        |
| <b>60 MHz</b>                                                             |        |                 | <b>80 MHz</b>  |        |                 |
| Lowest                                                                    | 632000 | 3480.000        | Lowest         | 632668 | 3490.020        |
| Middle                                                                    | 633334 | 3500.010        | Middle         | 633334 | 3500.010        |
| Highest                                                                   | 634666 | 3519.990        | Highest        | 634000 | 3510.000        |
| <b>90 MHz</b>                                                             |        |                 | <b>100 MHz</b> |        |                 |
| Lowest                                                                    | 633000 | 3495.000        | Lowest         | /      | /               |
| Middle                                                                    | 633334 | 3500.010        | Middle         | 633334 | 3500.010        |
| Highest                                                                   | 633666 | 3504.990        | Highest        | /      | /               |

| Band n77(3550-3700), SCS: 15 kHz--Include n78(3550-3700) , SCS: 15 kHz |        |                 |          |        |                 |
|------------------------------------------------------------------------|--------|-----------------|----------|--------|-----------------|
| Channels                                                               | ARFCN  | Frequency (MHz) | Channels | ARFCN  | Frequency (MHz) |
| 10 MHz                                                                 |        |                 | 15 MHz   |        |                 |
| Lowest                                                                 | 637000 | 3555.000        | Lowest   | 637168 | 3557.520        |
| Middle                                                                 | 641666 | 3624.990        | Middle   | 641666 | 3624.990        |
| Highest                                                                | 646332 | 3649.980        | Highest  | 646166 | 3692.490        |
| 20 MHz                                                                 |        |                 | 30 MHz   |        |                 |
| Lowest                                                                 | 637334 | 3560.010        | Lowest   | 637668 | 3565.020        |
| Middle                                                                 | 641666 | 3624.990        | Middle   | 641666 | 3624.990        |
| Highest                                                                | 646000 | 3690.000        | Highest  | 645666 | 3684.990        |
| 40 MHz                                                                 |        |                 | 50 MHz   |        |                 |
| Lowest                                                                 | 638000 | 3570.000        | Lowest   | 638334 | 3575.010        |
| Middle                                                                 | 641666 | 3624.990        | Middle   | 641666 | 3624.990        |
| Highest                                                                | 645332 | 3679.980        | Highest  | 645000 | 3675.000        |
| Band n77(3550-3700), SCS: 30 kHz--Include n78(3550-3700) , SCS: 30 kHz |        |                 |          |        |                 |
| Channels                                                               | ARFCN  | Frequency (MHz) | Channels | ARFCN  | Frequency (MHz) |
| 10 MHz                                                                 |        |                 | 15 MHz   |        |                 |
| Lowest                                                                 | 637000 | 3555.000        | Lowest   | 637168 | 3557.520        |
| Middle                                                                 | 641666 | 3624.990        | Middle   | 641666 | 3624.990        |
| Highest                                                                | 646332 | 3649.980        | Highest  | 646166 | 3692.490        |
| 20 MHz                                                                 |        |                 | 30 MHz   |        |                 |
| Lowest                                                                 | 637334 | 3560.010        | Lowest   | 637668 | 3565.020        |
| Middle                                                                 | 641666 | 3624.990        | Middle   | 641666 | 3624.990        |
| Highest                                                                | 646000 | 3690.000        | Highest  | 645666 | 3684.990        |
| 40 MHz                                                                 |        |                 | 50 MHz   |        |                 |
| Lowest                                                                 | 638000 | 3570.000        | Lowest   | 638334 | 3575.010        |
| Middle                                                                 | 641666 | 3624.990        | Middle   | 641666 | 3624.990        |
| Highest                                                                | 645332 | 3679.980        | Highest  | 645000 | 3675.000        |
| 60 MHz                                                                 |        |                 | 80 MHz   |        |                 |
| Lowest                                                                 | 638668 | 3580.020        | Lowest   | 639334 | 3590.010        |
| Middle                                                                 | 641666 | 3624.990        | Middle   | 641666 | 3624.990        |
| Highest                                                                | 644666 | 3669.990        | Highest  | 644000 | 3660.000        |
| 90 MHz                                                                 |        |                 | 100 MHz  |        |                 |
| Lowest                                                                 | 639668 | 3595.020        | Lowest   | 640000 | 3600.000        |
| Middle                                                                 | 641666 | 3624.990        | Middle   | 641666 | 3624.990        |
| Highest                                                                | 643666 | 3643.666        | Highest  | 643332 | 3649.980        |

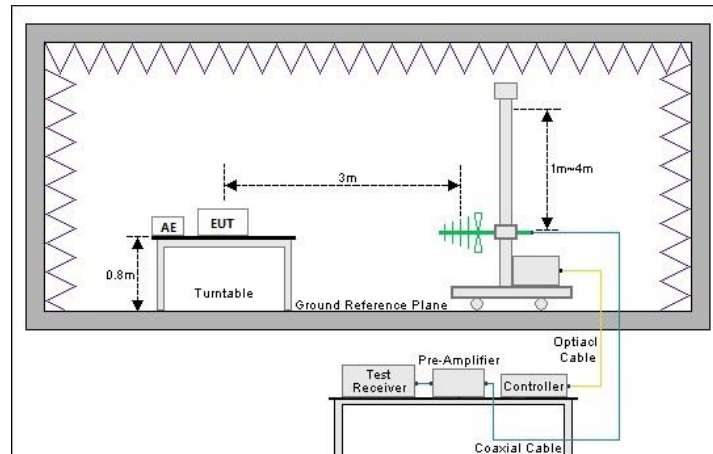
| Band n77(3700-3980), SCS: 15 kHz--Include n78(3700-3980) , SCS: 15 kHz |        |                 |          |        |                 |
|------------------------------------------------------------------------|--------|-----------------|----------|--------|-----------------|
| Channels                                                               | ARFCN  | Frequency (MHz) | Channels | ARFCN  | Frequency (MHz) |
| 10 MHz                                                                 |        |                 | 15 MHz   |        |                 |
| Lowest                                                                 | 647000 | 3705.000        | Lowest   | 647167 | 3707.505        |
| Middle                                                                 | 656000 | 3840.000        | Middle   | 656000 | 3840.000        |
| Highest                                                                | 665000 | 3975.000        | Highest  | 664833 | 3972.495        |
| 20 MHz                                                                 |        |                 | 30 MHz   |        |                 |
| Lowest                                                                 | 647334 | 3710.010        | Lowest   | 647667 | 3715.005        |
| Middle                                                                 | 656000 | 3840.000        | Middle   | 656000 | 3840.000        |
| Highest                                                                | 664666 | 3969.990        | Highest  | 664333 | 3964.995        |
| 40 MHz                                                                 |        |                 | 50 MHz   |        |                 |

| Lowest                                                                        | 648000 | 3720.000        | Lowest         | 648334 | 3725.010        |
|-------------------------------------------------------------------------------|--------|-----------------|----------------|--------|-----------------|
| Middle                                                                        | 656000 | 3840.000        | Middle         | 656000 | 3840.000        |
| Highest                                                                       | 664000 | 3960.000        | Highest        | 663666 | 3954.990        |
| <b>Band n77(3700-3980), SCS: 30 kHz--Include n78(3700-3980) , SCS: 30 kHz</b> |        |                 |                |        |                 |
| Channels                                                                      | ARFCN  | Frequency (MHz) | Channels       | ARFCN  | Frequency (MHz) |
| <b>10 MHz</b>                                                                 |        |                 | <b>15 MHz</b>  |        |                 |
| Lowest                                                                        | 647000 | 3705.000        | Lowest         | 647168 | 3707.520        |
| Middle                                                                        | 656000 | 3840.000        | Middle         | 656000 | 3840.000        |
| Highest                                                                       | 665000 | 3975.000        | Highest        | 664832 | 3972.480        |
| <b>20 MHz</b>                                                                 |        |                 | <b>30 MHz</b>  |        |                 |
| Lowest                                                                        | 647334 | 3710.010        | Lowest         | 647668 | 3715.020        |
| Middle                                                                        | 656000 | 3840.000        | Middle         | 656000 | 3840.000        |
| Highest                                                                       | 664666 | 3969.990        | Highest        | 664332 | 3964.980        |
| <b>40 MHz</b>                                                                 |        |                 | <b>50 MHz</b>  |        |                 |
| Lowest                                                                        | 648000 | 3720.000        | Lowest         | 648334 | 3725.010        |
| Middle                                                                        | 656000 | 3840.000        | Middle         | 656000 | 3840.000        |
| Highest                                                                       | 664000 | 3960.000        | Highest        | 663666 | 3954.990        |
| <b>60 MHz</b>                                                                 |        |                 | <b>80 MHz</b>  |        |                 |
| Lowest                                                                        | 648668 | 3730.020        | Lowest         | 649334 | 3740.010        |
| Middle                                                                        | 656000 | 3840.000        | Middle         | 656000 | 3840.000        |
| Highest                                                                       | 663332 | 3949.980        | Highest        | 662666 | 3939.990        |
| <b>90 MHz</b>                                                                 |        |                 | <b>100 MHz</b> |        |                 |
| Lowest                                                                        | 649668 | 3745.020        | Lowest         | 650000 | 3750.000        |
| Middle                                                                        | 656000 | 3840.000        | Middle         | 656000 | 3840.000        |
| Highest                                                                       | 662332 | 3934.980        | Highest        | 662000 | 3930.000        |

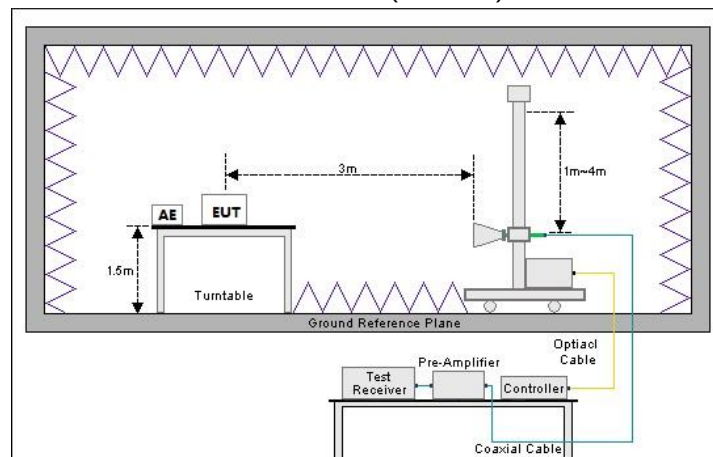
## 4.2 Test Setup

### 1) Radiated emission measurement:

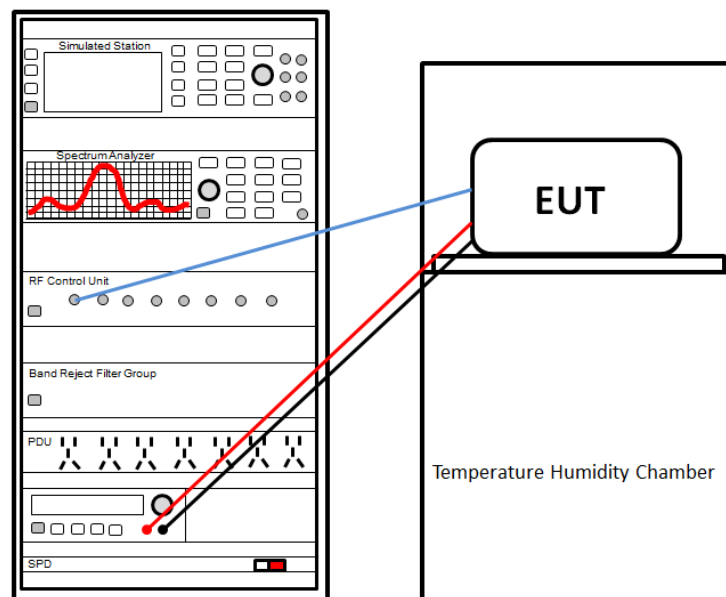
Below 1GHz (3m SAC)



Above 1GHz (3m FAR)



### 2) Conducted test method



### 4.3 Test Procedure

| Test method           | Test step                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Radiated emission     | <p><b>For below 1GHz:</b></p> <ol style="list-style-type: none"> <li>1. The EUT was placed on the tabletop of a rotating table 0.8 m the ground at a 3 m semi anechoic chamber. The measurement distance from the EUT to the receiving antenna is 3 m.</li> <li>2. EUT works in each mode of operation that needs to be tested , and having the EUT continuously working, respectively on 3 axis (X, Y &amp; Z) and considered typical configuration to obtain worst position. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations.</li> <li>3. Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data.</li> </ol> <p><b>For above 1GHz:</b></p> <ol style="list-style-type: none"> <li>1. The EUT was placed on the tabletop of a rotating table 1.5 m the ground at a 3 m fully anechoic room. The measurement distance from the EUT to the receiving antenna is 3 m.</li> <li>2. EUT works in each mode of operation that needs to be tested , and having the EUT continuously working, respectively on 3 axis (X, Y &amp; Z) and considered typical configuration to obtain worst position. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations.</li> <li>3. Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data.</li> </ol> |
| Conducted test method | <ol style="list-style-type: none"> <li>1. The NR antenna port of EUT was connected to the test port of the test system through an RF cable.</li> <li>2. The EUT is keeping in continuous transmission mode and tested in all modulation modes.</li> <li>3. Open the test software, prepare a test plan, and control the system through the software. After the test is completed, the test report is exported through the test software.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |



## 5 Test Results

### 5.1 Summary

#### 5.1.1 Clause and Data Summary

This report is revised according to the JYTSZ-R12-2301780 report, FCC ID: 2AIZN-X6851 issued by JianYan Testing Group Shenzhen Co., Ltd. Differences: The X6851B has one more HL3179 fast charge chip and peripheral devices than the X6851. The X6851B and X6851 battery connectors are different. The X6851 charges 45W and the X6851B charges 100W. The appearance of the prototype is different in color. And model update, so need to spot-check Conducted Output Power.

| Test items                                        | Standard clause                                                                                                                                              | Test data                                         | Result                                            |
|---------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|---------------------------------------------------|
| RF Exposure (SAR)                                 | Part 1.1307<br>Part 2.1093                                                                                                                                   | Please refer to report No.:<br>JYTSZ-R12-2301780. | Please refer to report No.:<br>JYTSZ-R12-2301780. |
| RF Output Power                                   | Part 2.1046<br>Part 22.913 (a)(5)<br>Part 27.50 (h)(2)<br>Part 27.50 (c)(10)<br>Part 27.50 (d)(4)<br>Part 27.50 (j)(3)<br>Part 27.50 (k)(3)<br>Part 96.41(b) | Please refer to report No.:<br>JYTSZ-R12-2301780. | Please refer to report No.:<br>JYTSZ-R12-2301780. |
| Peak-to-Average Power Ratio                       | Part 27.50 (d)(5)<br>Part 27.50 (j)(4)<br>Part 27.50 (k)(4)<br>Part 96.41(g)                                                                                 | Please refer to report No.:<br>JYTSZ-R12-2301780. | Please refer to report No.:<br>JYTSZ-R12-2301780. |
| 26dB Emission Bandwidth<br>99% Occupied Bandwidth | Part 2.1049<br>Part 22.917 (b)<br>Part 27.53 (g)<br>Part 27.53 (h)(3)<br>Part 27.53 (l)(2)<br>Part 27.53 (m)(6)<br>Part 27.53 (n)(2)<br>Part 96.41(e)(3)(i)  | Please refer to report No.:<br>JYTSZ-R12-2301780. | Please refer to report No.:<br>JYTSZ-R12-2301780. |
| Out of Band Emission at Antenna Terminals         | Part 2.1051<br>Part 22.917 (a)<br>Part 27.53 (g)<br>Part 27.53 (h)(1)<br>Part 27.53 (l)(2)<br>Part 27.53 (m)(4)<br>Part 27.53 (n)(2)<br>Part 96.41(e)(2)     | Please refer to report No.:<br>JYTSZ-R12-2301780. | Please refer to report No.:<br>JYTSZ-R12-2301780. |
| Field Strength of Spurious Radiation              | Part 2.1053<br>Part 22.917 (a)<br>Part 27.53 (g)<br>Part 27.53 (h)(1)<br>Part 27.53 (l)(2)<br>Part 27.53 (m)(4)<br>Part 27.53 (n)(2)<br>Part 96.41(e)(2)     | Please refer to report No.:<br>JYTSZ-R12-2301780. | Please refer to report No.:<br>JYTSZ-R12-2301780. |

|                                                                                                                                                                                                                                                                                                                                                            |                                                                   |                                                |                                                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|------------------------------------------------|------------------------------------------------|
| Frequency Stability vs. Temperature                                                                                                                                                                                                                                                                                                                        | Part 2.1055 (a)(1)(b)<br>Part 22.355<br>Part 24.235<br>Part 27.54 | Please refer to report No.: JYTSZ-R12-2301780. | Please refer to report No.: JYTSZ-R12-2301780. |
| Frequency Stability vs. Voltage                                                                                                                                                                                                                                                                                                                            | Part 2.1055 (d)(2)<br>Part 22.355<br>Part 24.235<br>Part 27.54    | Please refer to report No.: JYTSZ-R12-2301780. | Please refer to report No.: JYTSZ-R12-2301780. |
| <b>Remark:</b><br>1. Please refer to FCC ID: 2AIZN-X6851, report No.: JYTSZ-R12-2301780 issue by JianYan Testing Group Shenzhen Co., Ltd.<br>2. The cable insertion loss used by "RF Output Power" and other conduction measurement items is 0.5dB (Fundamental Frequency below 1GHz)/1.0dB (Fundamental Frequency above 1GHz) (provided by the customer). |                                                                   |                                                |                                                |
| <b>Test Method:</b>                                                                                                                                                                                                                                                                                                                                        | ANSI/TIA-603-E-2016<br>ANSI C63.26-2015                           |                                                |                                                |

### 5.1.2 Test Limit

| Test items                                                                            | Limit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RF output power                                                                       | <b>Band n7/38/41:</b> 2W EIRP,<br><b>Band n5:</b> 7W EIRP,<br><b>Band n12:</b> 3W EIRP<br><b>Band n66, n77, n78:</b> 1W EIRP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Peak-to-Average Power Ratio                                                           | The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Modulation Characteristics                                                            | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 26dB Emission Bandwidth<br>99% Occupied Bandwidth                                     | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Out of Band Emission at Antenna Terminals<br><br>Field Strength of Spurious Radiation | <p><b>Band n5, n12, n66:</b><br/>The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least <math>43 + 10 \log(P)</math> dB.</p> <p><b>Band n7, n38, n41:</b><br/>For mobile digital stations, the attenuation factor shall be not less than <math>40 + 10 \log(P)</math> dB on all frequencies between the channel edge and 5 megahertz from the channel edge, <math>43 + 10 \log(P)</math> dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and <math>55 + 10 \log(P)</math> dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than <math>43 + 10 \log(P)</math> dB on all frequencies between 2490.5 MHz and 2496 MHz and <math>55 + 10 \log(P)</math> dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.</p> <p><b>Band n77, n78:</b><br/>For mobile operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed <math>-13</math> dBm/MHz. Compliance with this paragraph (n)(2) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed, but limited to a maximum of 200 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.</p> |

|                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Out of Band Emission at Antenna Terminals</p> <p>Field Strength of Spurious Radiation</p> | <p>For mobile operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed ?13 dBm/MHz. Compliance with this paragraph (l)(2) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be either one percent of the emission bandwidth of the fundamental emission of the transmitter or 350 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.</p> <p><b>Band n77(3550-3700):</b></p> <p>Notwithstanding paragraph (e)(1) of this section, for CBSDs and End User Devices, the conducted power of emissions below 3540 MHz or above 3710 MHz shall not exceed ?25 dBm/MHz, and the conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed ?40dBm/MHz.</p> |
| <p>Frequency Stability vs. Temperature</p> <p>Frequency Stability vs. Voltage</p>            | <p>The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |