

# TEST REPORT

Applicant Name: INFINIX MOBILITY LIMITED  
Address: FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE  
19-25 SHAN MEI STREET FOTAN NT HONGKONG  
Report Number: 2501S22736E-RF-00A  
FCC ID: 2AIZN-X6726B

## Test Standard (s)

FCC PART 96

## Sample Description

Product Type: Mobile Phone  
Model No.: X6726B  
Multiple Model(s) No.: N/A  
Trade Mark: Infinix  
Date Received: 2025-04-07  
Issue Date: 2025-06-06

|              |       |
|--------------|-------|
| Test Result: | Pass▲ |
|--------------|-------|

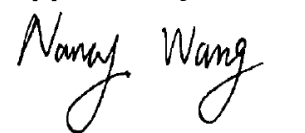
▲ In the configuration tested, the EUT complied with the standards above.

## Prepared and Checked By:



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## Approved By:



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Note: The information marked # is provided by the applicant, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report. Customer model name, addresses, names, trademarks etc. are included.

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DOCUMENT REVISION HISTORY

| Revision Number | Report Number      | Description of Revision | Date of Revision |
|-----------------|--------------------|-------------------------|------------------|
| 0               | 2501S22736E-RF-00A | Original Report         | 2025-06-06       |

## GENERAL INFORMATION

### Product Description for Equipment under Test (EUT)

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Frequency Range</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 5G NR Band 77: 3550-3700MHz (TX/RX)<br>5G NR Band 78: 3550-3700MHz (TX/RX)                                                                       |
| <b>EN-DC possible combinations</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | DC_5A_n77A, DC_7A_n77A, DC_41A_n77A, DC_66A_n77A, DC_2A_n78A, DC_4A_n78A, DC_5A_n78A, DC_7A_n78A, DC_38A_n78A, DC_41A_n78A, DC_66A_n78A          |
| <b>Carrier aggregation</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | DC_2A_7A_n78A, DC_2A_66A_n78A, DC_5A_7A_n78A, DC_7A_7A_n78A, DC_7A_66A_n78A, DC_66A_n7A_n78A, DC_7C_n78A, DC_41C_n78A, DC_7C_n77A, DC_41C_n77A   |
| <b>Modulation Technique</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | DFT-s-OFDM: PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM<br>CP-OFDM: QPSK, 16QAM, 64QAM, 256QAM                                                         |
| <b>Antenna Specification<sup>#</sup></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Please refer to the Antenna Specifications <sup>#</sup> , which was provided by manufacturer.                                                    |
| <b>Voltage Range</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | DC 3.91V from battery or DC 5.0V/7.5V from adapter                                                                                               |
| <b>Sample serial number</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 30YX-2 for Radiated Emissions Test<br>30YX-1 for RF Conducted Test (Assigned by BACL, Shenzhen)                                                  |
| <b>Sample/EUT Status</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Good condition                                                                                                                                   |
| <b>Normal/Extreme Condition<sup>#</sup></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | VL: Low Voltage 3.45V <sub>DC</sub><br>VN: Normal Voltage 3.91V <sub>DC</sub><br>VH: High Voltage 4.5V <sub>DC</sub> (provided by the applicant) |
| <b>Adapter Information</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Model: U180XSA<br>Input: AC 100-240V, 50/60Hz, 0.6A<br>Output: DC 5.0V, 2.4A or 7.5V 2.4A 18.0W Max                                              |
| <b>Remark:</b><br>1. For NSA mode, we only show the combination of the maximum power among all NSA combinations in the report as below: DC_5A_n77A, DC_5A_n78A. Please refer to report 2501S22736E-RF-00B for worst case.<br>2. The device is an End User Device.<br>3. The following frequency bands only support downlink (RX): DC_2A_7A_n78A, DC_2A_66A_n78A, DC_5A_7A_n78A, DC_7A_7A_n78A, DC_7A_66A_n78A, DC_66A_n7A_n78A, DC_7C_n78A, DC_41C_n78A, DC_7C_n77A, DC_41C_n77A, DC_41C_n41A<br>4. The EUT has two configurations that Type 1 and Type 2 are electrically identical. Please refer to the declaration letter for more detail, which was provided by manufacturer. Per BT report test, conducted emissions test with Type 2 was the worst, and radiated emissions below 1GHz test with Type1 was the worst. Other test item only performs on Type 1 configurations. |                                                                                                                                                  |

## Objective

This test report is in accordance with Part 2-Subpart J, Part 96 of the Federal Communication Commission's rules.

The objective is to determine the compliance of the EUT with FCC rules for output power, modulation characteristic, occupied bandwidth, and spurious emission at antenna terminal, spurious radiated emission, frequency stability and band edge.

## Test Methodology

All tests and measurements indicated in this document were performed in accordance with the Code of Federal Regulations Title 47 Part 2-Subpart J as well as the following parts:

Part 96-Citizens Broadband Radio Service

ANSI C63.26-2015: American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services

All emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Shenzhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Each test item follows test standards and with no deviation.

## Measurement Uncertainty

| Parameter                    |                             | Uncertainty                            |
|------------------------------|-----------------------------|----------------------------------------|
| Occupied Channel Bandwidth   |                             | 109.2kHz(k=2, 95% level of confidence) |
| RF Frequency                 |                             | 56.6Hz(k=2, 95% level of confidence)   |
| RF output power, conducted   |                             | 0.86dB(k=2, 95% level of confidence)   |
| Unwanted Emission, conducted |                             | 1.60dB(k=2, 95% level of confidence)   |
| Emissions, Radiated          | 30MHz~200MHz (Horizontal)   | 5.32dB(k=2, 95% level of confidence)   |
|                              | 30MHz~200MHz (Vertical)     | 5.43dB(k=2, 95% level of confidence)   |
|                              | 200MHz~1000MHz (Horizontal) | 5.77dB(k=2, 95% level of confidence)   |
|                              | 200MHz~1000MHz (Vertical)   | 5.73dB(k=2, 95% level of confidence)   |
|                              | 1GHz - 6GHz                 | 5.34dB(k=2, 95% level of confidence)   |
|                              | 6GHz - 18GHz                | 5.40dB(k=2, 95% level of confidence)   |
|                              | 18GHz - 40GHz               | 5.64dB(k=2, 95% level of confidence)   |
| Temperature                  |                             | ±1°C                                   |
| Humidity                     |                             | ±1%                                    |
| Supply voltages              |                             | ±0.4%                                  |

*Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.*

### **Test Facility**

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 5F(B-West) , 6F, 7F, the 3rd Phase of Wan Li Industrial Building D, Shihua Rd, FuTian Free Trade Zone, Shenzhen, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 715558, the FCC Designation No. : CN5045.

## SYSTEM TEST CONFIGURATION

### Description of Test Configuration

The test items were performed with the EUT operating at testing mode. Test was performed with channels as below table:

| Bands | Frequency Range (MHz) | Bandwidth (MHz) | Test Frequency (MHz) |        |        |
|-------|-----------------------|-----------------|----------------------|--------|--------|
|       |                       |                 | Low                  | Middle | High   |
| N77   | 3550-3700             | 10              | 3555                 | 3625   | 3695   |
|       |                       | 15              | 3557.5               | 3625   | 3692.5 |
|       |                       | 20              | 3560                 | 3625   | 3690   |
|       |                       | 30              | 3565                 | 3625   | 3685   |
|       |                       | 40              | 3570                 | 3625   | 3680   |
|       |                       | 50              | 3575                 | 3625   | 3675   |
|       |                       | 60              | 3580                 | 3625   | 3670   |
|       |                       | 70              | 3585                 | 3625   | 3665   |
|       |                       | 80              | 3590                 | 3625   | 3660   |
|       |                       | 90              | 3595                 | 3625   | 3655   |
|       |                       | 100             | 3600                 | 3625   | 3650   |
| N78   | 3550-3700             | 10              | 3555                 | 3625   | 3695   |
|       |                       | 15              | 3557.5               | 3625   | 3692.5 |
|       |                       | 20              | 3560                 | 3625   | 3690   |
|       |                       | 30              | 3565                 | 3625   | 3685   |
|       |                       | 40              | 3570                 | 3625   | 3680   |
|       |                       | 50              | 3575                 | 3625   | 3675   |
|       |                       | 60              | 3580                 | 3625   | 3670   |
|       |                       | 70              | 3585                 | 3625   | 3665   |
|       |                       | 80              | 3590                 | 3625   | 3660   |
|       |                       | 90              | 3595                 | 3625   | 3655   |
|       |                       | 100             | 3600                 | 3625   | 3650   |

Note:

1. SCS 15kHz, 30kHz was supports by the device, they have same output power, so only SCS 30kHz tested for TDD band.
2. For modulation of CP-OFDM and DFT-s-OFDM, the maximum power of CP-OFDM is lower than DFT-s-OFDM modulation, therefore, we chose higher power (DFT-s-OFDM modulation) to perform all tests and show in the report.

### Equipment Modifications

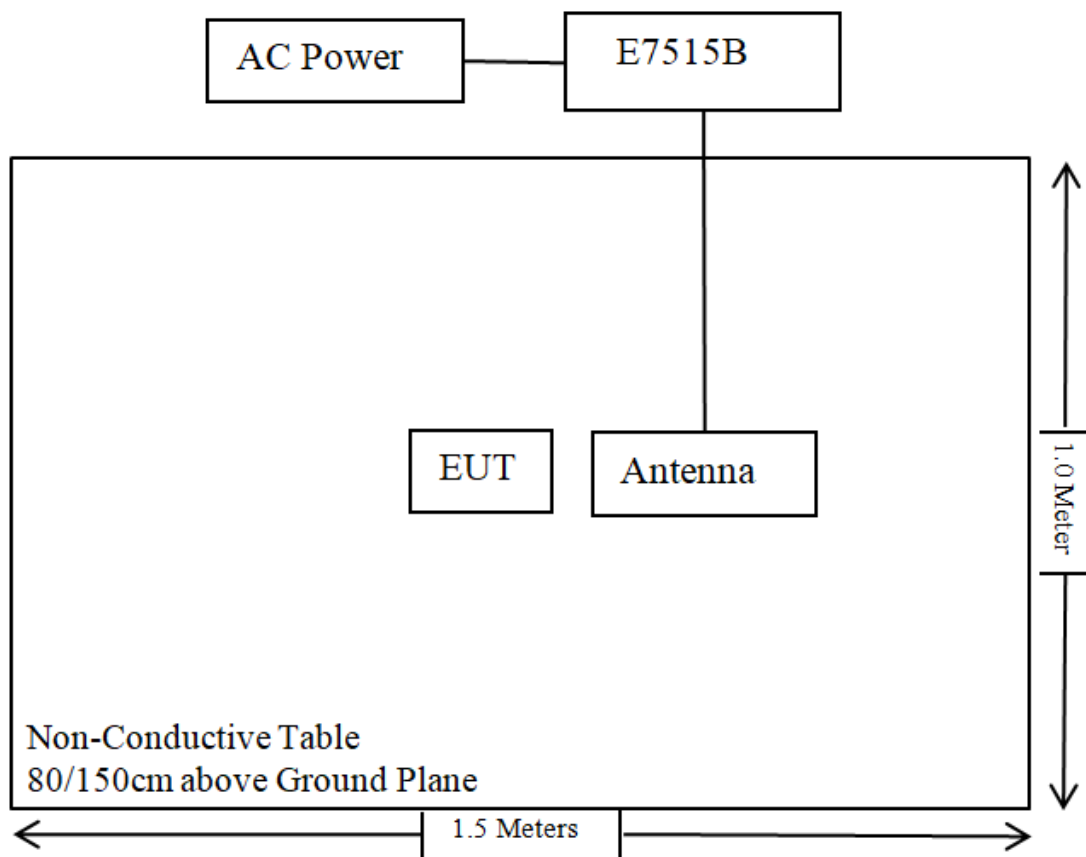
No modification was made to the EUT tested.

**Support Equipment List and Details**

| Manufacturer | Description                   | Model  | Serial Number |
|--------------|-------------------------------|--------|---------------|
| Keysight     | UXM 5G Wireless Test Platform | E7515B | MY58120284    |

**External I/O Cable**

| Cable Description               | Length (m) | From Port | To     |
|---------------------------------|------------|-----------|--------|
| Un-shielded Detachable AC cable | 1.2        | AC Power  | E7515B |

**Block Diagram of Test Setup**

**SUMMARY OF TEST RESULTS**

| <b>FCC Rules</b>    | <b>Description of Test</b>             | <b>Result</b>  |
|---------------------|----------------------------------------|----------------|
| §1.1307, §2.1093    | RF Exposure Information                | Compliant      |
| §2.1046; §96.41(b)  | RF Output Power                        | Compliant      |
| § 2.1047            | Modulation Characteristics             | Not Applicable |
| § 2.1049; §96.41    | Occupied Bandwidth                     | Compliant      |
| § 2.1051; §96.41(e) | Spurious Emissions at Antenna Terminal | Compliant      |
| § 2.1053; §96.41(e) | Field Strength of Spurious Radiation   | Compliant      |
| §96.41(e)           | Band Edge                              | Compliant      |
| § 2.1055            | Frequency stability                    | Compliant      |

**TEST EQUIPMENT LIST**

| Manufacturer                  | Description                       | Model           | Serial Number | Calibration Date | Calibration Due Date |
|-------------------------------|-----------------------------------|-----------------|---------------|------------------|----------------------|
| <b>Radiated Emission Test</b> |                                   |                 |               |                  |                      |
| Rohde & Schwarz               | EMI Test Receiver                 | ESR3            | 102455        | 2024/12/04       | 2025/12/03           |
| Sonoma instrument             | Pre-amplifier                     | 310N            | 186238        | 2025/04/29       | 2026/04/28           |
| Sunol Sciences                | Broadband Antenna                 | JB1             | A040904-1     | 2023/07/20       | 2026/07/19           |
| COM-POWER                     | Dipole Antenna                    | 3121C           | 9209-860      | NCR              | NCR                  |
| Unknown                       | Cable                             | Chamber Cable 1 | F-03-EM236    | 2025/04/29       | 2026/04/28           |
| Unknown                       | Cable                             | XH500C          | J-10M-A       | 2025/04/29       | 2026/04/28           |
| Rohde&Schwarz                 | Spectrum Analyzer                 | FSV40           | 101605        | 2025/03/26       | 2026/03/25           |
| A.H.System                    | Preamplifier                      | PAM-0118P       | 489           | 2024/11/15       | 2025/11/14           |
| Schwarzbeck                   | Horn Antenna                      | BBHA9120D(1201) | 1143          | 2023/07/26       | 2026/07/25           |
| The Electro-Mechanics Co.     | Horn Antenna                      | 3115            | 9107-3694     | 2024/06/06       | 2027/06/05           |
| Unknown                       | RF Cable                          | KMSE            | 0735          | 2024/12/06       | 2025/12/05           |
| Unknown                       | RF Cable                          | UFA147          | 219661        | 2024/12/06       | 2025/12/05           |
| Unknown                       | RF Cable                          | XH750A-N        | J-10M         | 2024/12/06       | 2025/12/05           |
| JD                            | Filter Switch Unit                | DT7220FSU       | DS79906       | 2024/09/09       | 2025/09/08           |
| JD                            | Multiplex Switch Test Control Set | DT7220SCU       | DS79903       | 2024/09/09       | 2025/09/08           |
| A.H.System                    | Pre-amplifier                     | PAM-1840VH      | 190           | 2025/04/29       | 2026/04/28           |
| Electro-Mechanics Co          | Horn Antenna                      | 3116            | 9510-2270     | 2023/09/18       | 2026/09/17           |
| Electro-Mechanics Co          | Horn Antenna                      | 3116            | 2026          | 2023/09/18       | 2026/09/17           |
| UTIFLEX                       | RF Cable                          | NO. 13          | 232308-001    | 2024/12/18       | 2025/12/17           |
| Keysight                      | UXM 5G Wireless Test Platform     | E7515B          | MY58120284    | 2025/05/16       | 2026/05/15           |
| Agilent                       | Signal Generator                  | N5183A          | MY50140588    | 2024/09/13       | 2025/09/12           |

| Manufacturer      | Description                      | Model      | Serial Number | Calibration Date | Calibration Due Date |
|-------------------|----------------------------------|------------|---------------|------------------|----------------------|
| RF Conducted Test |                                  |            |               |                  |                      |
| R&S               | Spectrum Analyzer                | FSV40      | 101942        | 2024/09/20       | 2025/09/19           |
| BACL              | Temperature & Humidity Chamber   | BTH-150-40 | 30145         | 2024/12/06       | 2025/12/05           |
| instek            | DC Power Supply                  | GPS-3030DD | EM832096      | NCR              | NCR                  |
| Fluke             | Digital Multimeter               | 287        | 19000011      | 2025/04/29       | 2026/04/28           |
| WEINSCHEL         | 3dB Attenuator                   | Unknown    | F-03-EM220    | 2024/06/27       | 2025/06/26           |
| WEINSCHEL         | Power Splitter                   | 1515       | RH476         | 2024/06/27       | 2025/06/26           |
| Unknown           | RF Cable                         | 65475      | 01670515      | 2024/06/27       | 2025/06/26           |
| Anritsu           | Radio Communication Test Station | MT8000A    | 6262309799    | 2024/05/16       | 2025/05/15           |
| Anritsu           | Radio Communication Test Station | MT8000A    | 6262309799    | 2024/05/17       | 2025/05/16           |
| Keysight          | UXM 5G Wireless Test Platform    | E7515B     | MY58120284    | 2024/05/17       | 2025/05/16           |
| Keysight          | UXM 5G Wireless Test Platform    | E7515B     | MY58120284    | 2025/05/16       | 2026/05/15           |

\* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

## **REQUIREMENTS AND TEST PROCEDURES**

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### **Modulation Characteristic**

According to FCC § 2.1047(d) and Part 96, there is no specific requirement for digital modulation, therefore modulation characteristic is not presented.

## RF Output Power

### Applicable Standard

According to §96.41(b) The following power requirements apply to stations transmitting in the 3550-3700MHz band:

Unless otherwise specified in this section, the maximum effective isotropic radiated power (EIRP) and maximum Power Spectral Density (PSD) of any CBSD and End User Device must comply with the limits shown in the table in this paragraph (b):

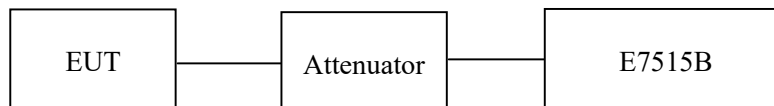
| Device                       | Maximum EIRP (dBm/10 megahertz) | Maximum PSD (dBm/MHz) |
|------------------------------|---------------------------------|-----------------------|
| End User Device              | 23                              | n/a                   |
| Category A CBSD              | 30                              | 20                    |
| Category B CBSD <sup>1</sup> | 47                              | 37                    |

<sup>1</sup> Category B CBSDs will only be authorized for use after an ESC is approved and commercially deployed consistent with §§ 96.15 and 96.67.

### Test Procedure

Conducted method: ANSI C63.26-2015 Section 5.2

The RF output of the transmitter was connected to the E7515B through sufficient attenuation.



Note: the worst case path loss (cable loss and splitter inset loss) among the test frequency range has included in plots.

**Occupied Bandwidth****Applicable Standard**

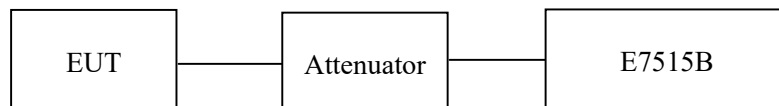
FCC 47 §2.1049, § 96.41

**Test Procedure**

ANSI C63.26-2015 Section 5.4.4

The RF output of the transmitter was connected to the simulator and the spectrum analyzer through sufficient attenuation.

The resolution bandwidth of the spectrum analyzer was set at 1% to 5% of the anticipated emission bandwidth and the 26 dB & 99% bandwidth was recorded.



## Spurious Emissions at Antenna Terminals

### Applicable Standard

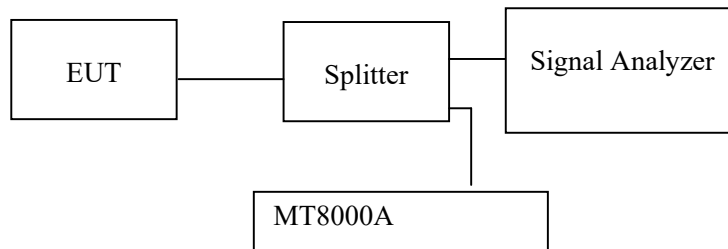
FCC §2.1051, § 96.41(e)

The spectrum was to be investigated to the tenth harmonics of the highest fundamental frequency as specified in § 2.1051.

### Test Procedure

ANSI C63.26-2015 Section 5.7

The RF output of the transceiver was connected to a spectrum analyzer and simulator through appropriate attenuation. The resolution bandwidth of the spectrum analyzer was set at 1MHz. Sufficient scans were taken to show any out of band emissions up to 10<sup>th</sup> harmonic.



Note: the worst case path loss (cable loss and splitter inset loss) among the test frequency range has included in plots.

## Spurious Radiated Emissions

### Applicable Standard

FCC § 2.1053, § 96.41(e)

The spectrum was to be investigated to the tenth harmonics of the highest fundamental frequency as specified in § 2.1051.

### Test setup:

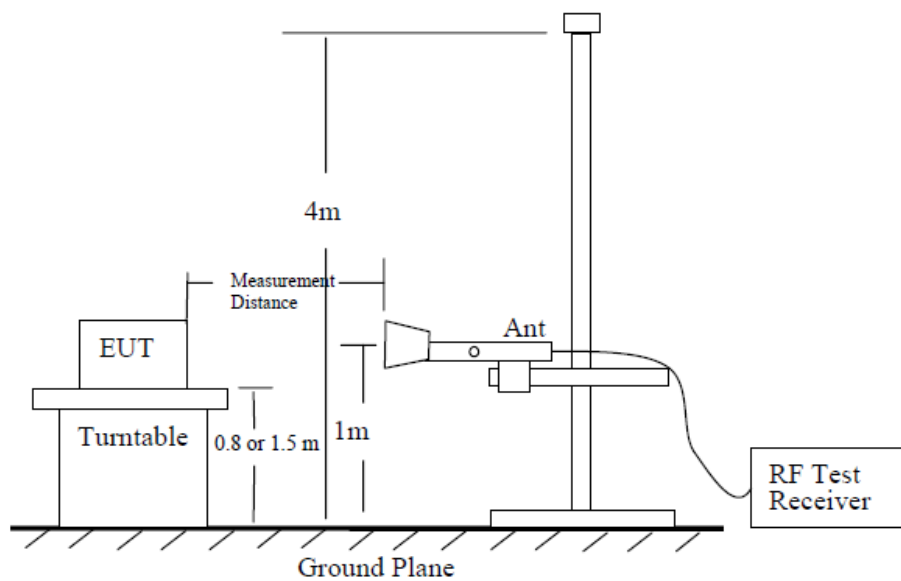


Figure 6—Test site-up for radiated ERP and/or EIRP measurements

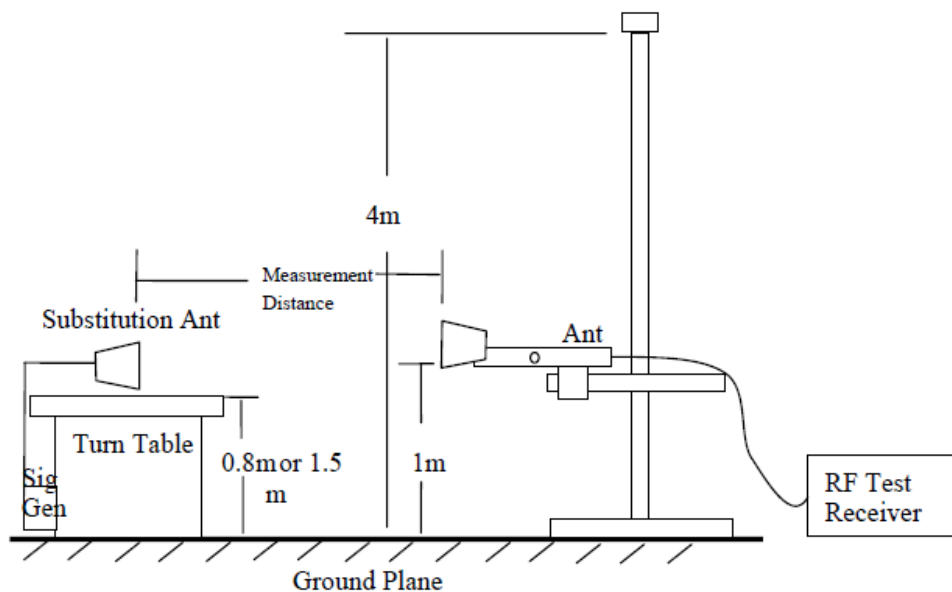


Figure 7—Substitution method set-up for radiated emission

### **Test Procedure**

ANSI/TIA-603-E-2016 Section 2.2.12  
KDB 671168 D01 v03r01 Section 6.2

The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load which was also placed on the turntable.

The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the receiving antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.

The frequency range up to tenth harmonic of the fundamental frequency was investigated.

## Band Edges

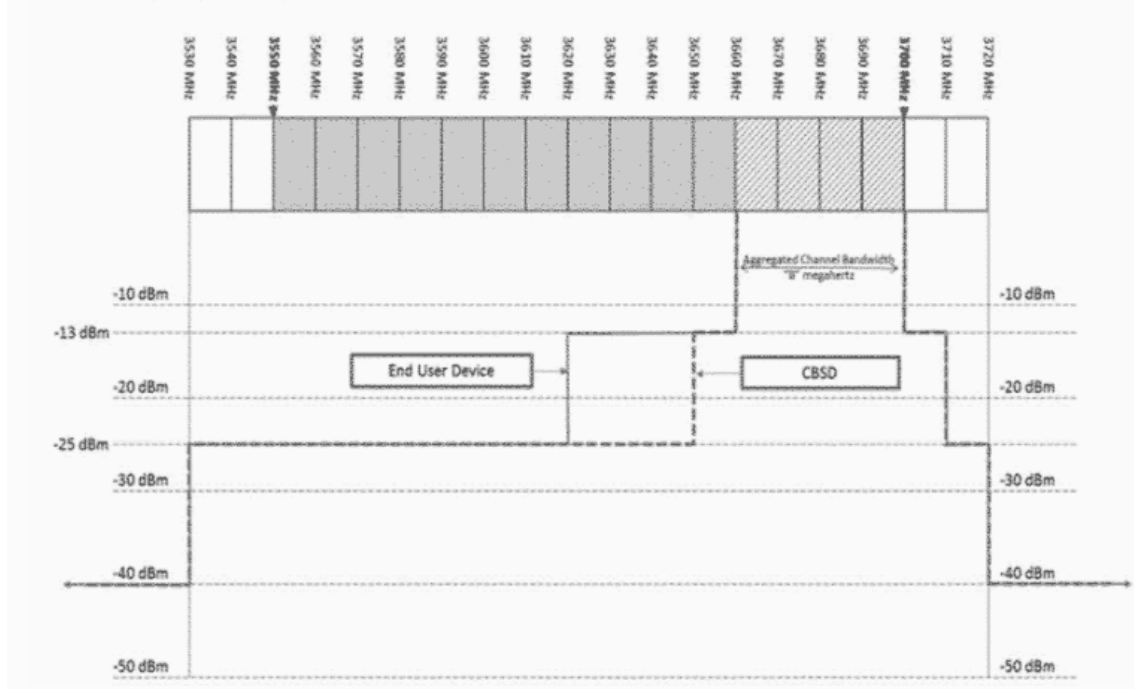
### Applicable Standard

According to FCC§96.41(e)

### 3.5 GHz Emissions and Interference Limits —

#### (1) General protection levels.

Figure 1 to paragraph (e) – Protection levels



(i) Except as otherwise specified in paragraph (e)(2) of this section, for channel and frequency assignments made by the SAS to CBSDs, the conducted power of any CBSD emission outside the fundamental emission bandwidth as specified in paragraph (e)(3) of this section (whether the emission is inside or outside of the authorized band) shall not exceed  $-13$  dBm/MHz within 0-10 megahertz above the upper SAS-assigned channel edge and within 0-10 megahertz below the lower SAS-assigned channel edge. At all frequencies greater than 10 megahertz above the upper SAS assigned channel edge and less than 10 MHz below the lower SAS assigned channel edge, the conducted power of any CBSD emission shall not exceed  $-25$  dBm/MHz. The upper and lower SAS assigned channel edges are the upper and lower limits of any channel assigned to a CBSD by an SAS, or in the case of multiple contiguous channels, the upper and lower limits of the combined contiguous channels.

(ii) Except as otherwise specified in paragraph (e)(2) of this section, for channel and frequency assignments made by a CBSD to End User Devices, the conducted power of any End User Device emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed  $-13$  dBm/MHz within 0 to B megahertz (where B is the bandwidth in megahertz of the assigned channel or multiple contiguous channels of the End User Device) above the upper CBSD-assigned channel edge and within 0 to B megahertz below the lower CBSD-assigned channel edge. At all frequencies greater than B megahertz above the upper CBSD assigned channel edge and less than B megahertz below the lower CBSD-assigned channel edge, the conducted power of any End User Device emission shall not exceed  $-25$

dBm/MHz. Notwithstanding the emission limits in this paragraph, the Adjacent Channel Leakage Ratio for End User Devices shall be at least 30 dB.

(2) Additional protection levels. 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  $-40$  dBm/MHz.

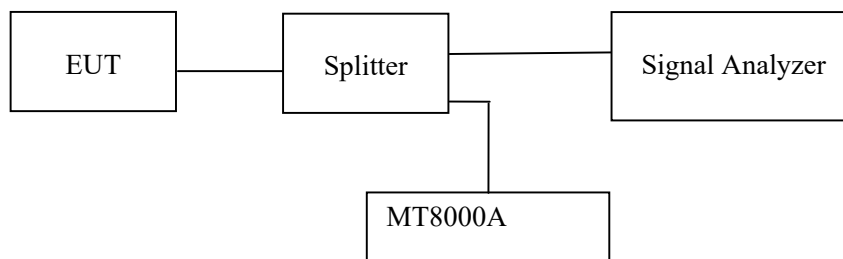
### Test Procedure

ANSI C63.26-2015 Section 5.7

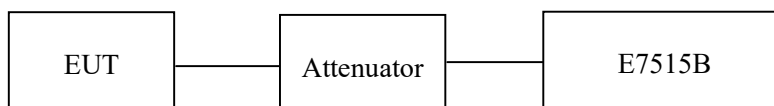
The RF output of the transmitter was connected to the input of the spectrum analyzer through sufficient attenuation.

The center of the spectrum analyzer was set to block edge frequency

For Band Edges:



For ACLR:



## Frequency Stability

### Applicable Standard

FCC § 2.1055

According to FCC §2.1055, the frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

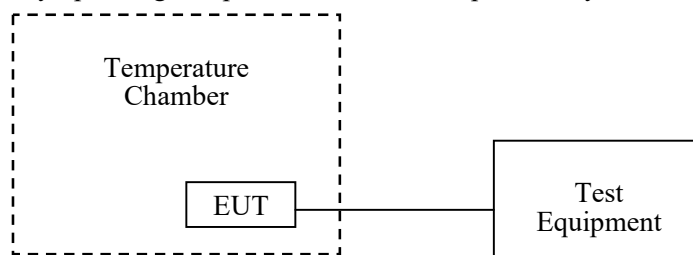
### Test Procedure

ANSI C63.26-2015 Section 5.6

Frequency Stability vs. Temperature: The equipment under test was connected to an external DC power supply and the RF output was connected to communication test set via feed-through attenuators. The EUT was placed inside the temperature chamber. The DC leads and RF output cable exited the chamber through an opening made for the purpose.

After the temperature stabilized for approximately 20 minutes, the frequency output was recorded from the communication test set.

Frequency Stability vs. Voltage: For hand carried, battery powered equipment; reduce primary supply voltage to the battery operating end point which shall be specified by the manufacturer.



## TEST DATA AND RESULTS

### Spurious Radiated Emissions

#### Environmental Conditions

|                            |                                                                                                           |                              |                      |
|----------------------------|-----------------------------------------------------------------------------------------------------------|------------------------------|----------------------|
| <b>Temperature (°C)</b>    | 23.8-24.9                                                                                                 | <b>Relative Humidity (%)</b> | 39-51                |
| <b>ATM Pressure (kPa):</b> | 100.2-100.6                                                                                               | <b>Test engineer:</b>        | Anson Su & Wing K Ji |
| <b>Test date:</b>          | 2025/5/17-2025/5/19                                                                                       |                              |                      |
| <b>EUT operation mode:</b> | Transmitting                                                                                              |                              |                      |
| <b>Note:</b>               | After pre-scan in the X, Y and Z axes of orientation, the worst case z-axis of orientation were recorded. |                              |                      |

#### Test Mode Description (Worst case)

| Mode | NR Band | Channel         | SCS(kHz) | Condition               |
|------|---------|-----------------|----------|-------------------------|
| SA   | n77     | Low/Middle/High | 30       | 10MHz_DFT-s-OFDM (QPSK) |
|      | n78     | Low/Middle/High | 30       | 10MHz_DFT-s-OFDM (QPSK) |

| Frequency<br>(MHz)           | Receiver<br>Reading<br>(dBμV) | Polar<br>(H / V) | Substituted                   |                       |                              | Absolute<br>Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) |
|------------------------------|-------------------------------|------------------|-------------------------------|-----------------------|------------------------------|----------------------------|----------------|----------------|
|                              |                               |                  | Substituted<br>Level<br>(dBm) | Cable<br>Loss<br>(dB) | Antenna<br>Gain<br>(dBi/dBd) |                            |                |                |
| N77_2 (3550MHz-3700MHz)_ANT7 |                               |                  |                               |                       |                              |                            |                |                |
| Low channel                  |                               |                  |                               |                       |                              |                            |                |                |
| 950.2                        | 32.44                         | H                | -64.1                         | 1.36                  | 0.0                          | -65.46                     | -40            | 25.46          |
| 950.11                       | 33.30                         | V                | -60.8                         | 1.36                  | 0.0                          | -62.16                     | -40            | 22.16          |
| 7110.00                      | 52.02                         | H                | -55.6                         | 2.50                  | 10.7                         | -47.40                     | -40            | 7.40           |
| 7110.00                      | 52.53                         | V                | -55.3                         | 2.50                  | 10.7                         | -47.10                     | -40            | 7.10           |
| Middle channel               |                               |                  |                               |                       |                              |                            |                |                |
| 947.83                       | 32.98                         | H                | -63.5                         | 1.36                  | 0.0                          | -64.86                     | -40            | 24.86          |
| 947.7                        | 33.37                         | V                | -60.7                         | 1.36                  | 0.0                          | -62.06                     | -40            | 22.06          |
| 7250.00                      | 51.17                         | H                | -55.2                         | 2.50                  | 10.6                         | -47.10                     | -40            | 7.10           |
| 7250.00                      | 51.49                         | V                | -55.1                         | 2.50                  | 10.6                         | -47.00                     | -40            | 7.00           |
| High channel                 |                               |                  |                               |                       |                              |                            |                |                |
| 949                          | 32.59                         | H                | -63.9                         | 1.36                  | 0.0                          | -65.26                     | -40            | 25.26          |
| 949.06                       | 33.40                         | V                | -60.6                         | 1.36                  | 0.0                          | -61.96                     | -40            | 21.96          |
| 7390.00                      | 51.04                         | H                | -55.1                         | 2.60                  | 10.5                         | -47.20                     | -40            | 7.20           |
| 7390.00                      | 51.28                         | V                | -55.1                         | 2.60                  | 10.5                         | -47.20                     | -40            | 7.20           |
| N78_2(3550MHz-3700MHz)_ANT7  |                               |                  |                               |                       |                              |                            |                |                |
| Low channel                  |                               |                  |                               |                       |                              |                            |                |                |
| 949.47                       | 32.67                         | H                | -63.8                         | 1.36                  | 0.0                          | -65.16                     | -40            | 25.16          |
| 949.37                       | 33.10                         | V                | -60.9                         | 1.36                  | 0.0                          | -62.26                     | -40            | 22.26          |
| 7110.00                      | 52.14                         | H                | -55.5                         | 2.50                  | 10.7                         | -47.30                     | -40            | 7.30           |
| 7110.00                      | 53.27                         | V                | -54.5                         | 2.50                  | 10.7                         | -46.30                     | -40            | 6.30           |
| Middle channel               |                               |                  |                               |                       |                              |                            |                |                |
| 949.7                        | 33.13                         | H                | -63.4                         | 1.36                  | 0.0                          | -64.76                     | -40            | 24.76          |
| 949.76                       | 33.30                         | V                | -60.7                         | 1.36                  | 0.0                          | -62.06                     | -40            | 22.06          |
| 7250.00                      | 51.62                         | H                | -54.7                         | 2.50                  | 10.6                         | -46.60                     | -40            | 6.60           |
| 7250.00                      | 52.73                         | V                | -53.8                         | 2.50                  | 10.6                         | -45.70                     | -40            | 5.70           |
| High channel                 |                               |                  |                               |                       |                              |                            |                |                |
| 951.98                       | 32.79                         | H                | -63.7                         | 1.36                  | 0.0                          | -65.06                     | -40            | 25.06          |
| 952                          | 32.97                         | V                | -61.1                         | 1.36                  | 0.0                          | -62.46                     | -40            | 22.46          |
| 7390.00                      | 51.76                         | H                | -54.3                         | 2.60                  | 10.5                         | -46.40                     | -40            | 6.40           |
| 7390.00                      | 52.66                         | V                | -53.7                         | 2.60                  | 10.5                         | -45.80                     | -40            | 5.80           |

Note:

Absolute Level = Reading Level + Substituted Factor

Substituted Factor contains: Substituted Level - Cable loss+ Antenna Gain

Margin = Limit-Absolute Level

**RF Conducted data**

The test data please refer to the Appendix.

| Test Items                             | Test Data  |
|----------------------------------------|------------|
| RF Output Power                        | Appendix H |
| Peak-to-average Ratio(PAR)             | Appendix I |
| Occupied Bandwidth                     | Appendix J |
| Spurious Emissions at Antenna Terminal | Appendix K |
| Adjacent Channel Leakage Ratio         | Appendix L |
| Band Edge                              | Appendix M |
| Frequency Stability_ Range             | Appendix N |

## **RF EXPOSURE INFORMATION**

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### **Applicable Standard**

FCC§1.1310 and §2.1093.

### **Test Result**

Compliant, please refer to the SAR report: 2501S22736E-SA.

## EUT PHOTOGRAPHS

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Please refer to the attachment 2503S20876E-RF-EXP<sup>#</sup> External photo and 2503S20876E-RF-INP<sup>#</sup> Internal photo, issued by China Certification ICT Co., Ltd (Dongguan).

## **TEST SETUP PHOTOGRAPHS**

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Please refer to the attachment 2501S22736E-RF Test Setup photo.

**\*\*\*\*\* END OF REPORT \*\*\*\*\***