

# FCC RF Test Report

## (NFC)

**Report No.:** JYTSZ-R12-2301613

**Applicant:** TECNO MOBILE 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.: KJ7s

Trade Mark: TECNO

**FCC ID:** 2ADYY-KJ7S

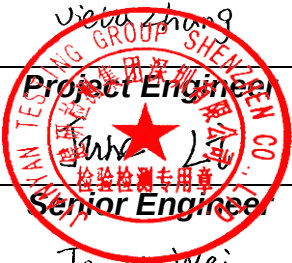
**Applicable Standards:** FCC CFR Title 47 Part 15C (§15.225)

**Date of Sample Receipt:** 17 Nov., 2023

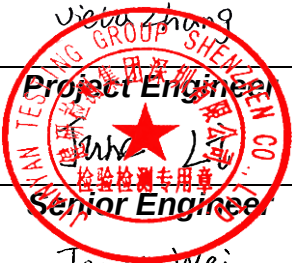
**Date of Test:** 18 Nov., to 28 Nov., 2023

**Date of Report Issue:** 29 Nov., 2023

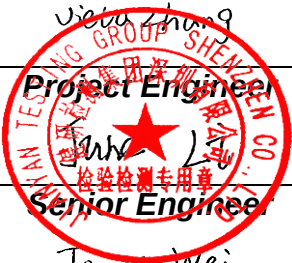
**Test Result:** PASS

**Tested by:**  
Project Engineer**Date:**

29 Nov., 2023

**Reviewed by:**  
Senior Engineer**Date:**

29 Nov., 2023

**Approved by:**  
Manager**Date:**

29 Nov., 2023

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.

This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

## 1 Version

| Version No. | Date          | Description |
|-------------|---------------|-------------|
| 00          | 29 Nov., 2023 | Original    |
|             |               |             |
|             |               |             |
|             |               |             |
|             |               |             |

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### 3 General Information

#### 3.1 Client Information

|               |                                                                                                                        |
|---------------|------------------------------------------------------------------------------------------------------------------------|
| Applicant:    | TECNO MOBILE LIMITED                                                                                                   |
| Address:      | FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG                                |
| Manufacturer: | TECNO MOBILE 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.:             | KJ7s                                                                                                                          |
| Operation Frequency:   | 13.56MHz                                                                                                                      |
| Channel Numbers:       | 1                                                                                                                             |
| Modulation Type:       | ASK                                                                                                                           |
| Antenna Type:          | Induction Coil Antenna                                                                                                        |
| Power Supply:          | Rechargeable Li-ion Polymer Battery DC3.87V, 4900mAh                                                                          |
| AC Adapter:            | Model: U330TSB<br>Input: AC100-240V, 50/60Hz, 1.5A<br>Output: DC 5.0V, 3.0A 15.0W or 5.0-10.0V, 3.3A or 11.0V, 3.0A 33.0W MAX |
| Test Sample Condition: | The test samples were provided in good working order with no visible defects.                                                 |

### 3.3 Test Mode and Environment

Please refer to FCC ID: 2ADYY-KJ7, report No.: JYTSZ-R12-2301387.

### 3.4 Description of Test Auxiliary Equipment

Please refer to FCC ID: 2ADYY-KJ7, report No.: JYTSZ-R12-2301387.

### 3.5 Measurement Uncertainty

Please refer to FCC ID: 2ADYY-KJ7, report No.: JYTSZ-R12-2301387.

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

No

### 3.7 Laboratory Facility

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

● **FCC - Designation No.: CN1211**

JianYan Testing Group Shenzhen Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

● **ISED – CAB identifier.: CN0021**

The 3m Semi-anechoic chamber and 10m Semi-anechoic chamber of JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

● **CNAS - Registration No.: CNAS L15527**

JianYan Testing Group Shenzhen Co., Ltd. is accredited to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L15527.

● **A2LA - Registration No.: 4346.01**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: <https://portal.a2la.org/scopepdf/4346-01.pdf>

### 3.8 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd.

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

Tel: +86-755-23118282, Fax: +86-755-23116366

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

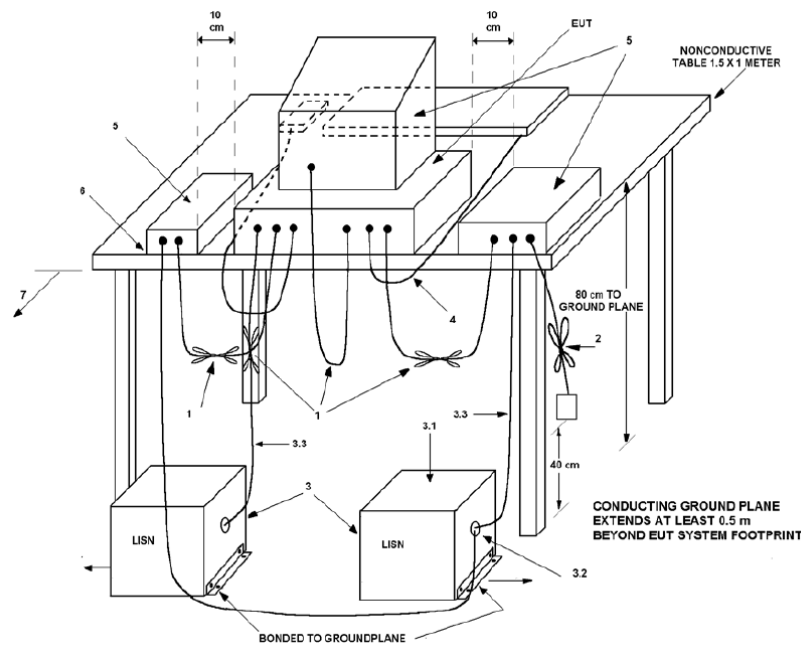
### 3.9 Test Instruments List

Please refer to FCC ID: 2ADYY-KJ7, report No.: JYTSZ-R12-2301387.

## 4 Measurement Setup and Procedure

## 4.1 Test Setup

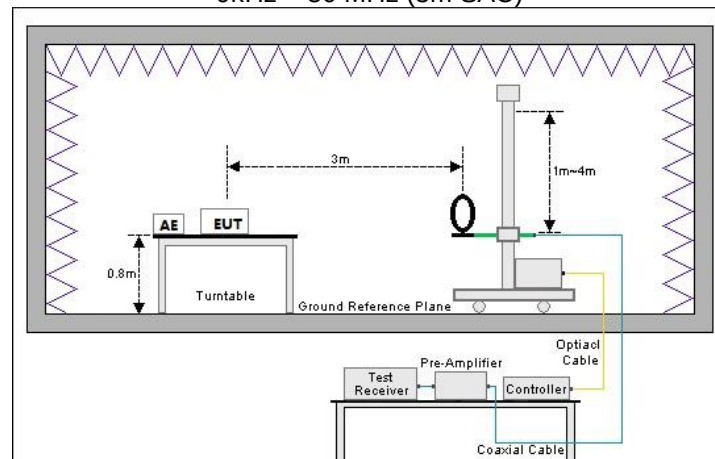
**1) Conducted emission measurement:**



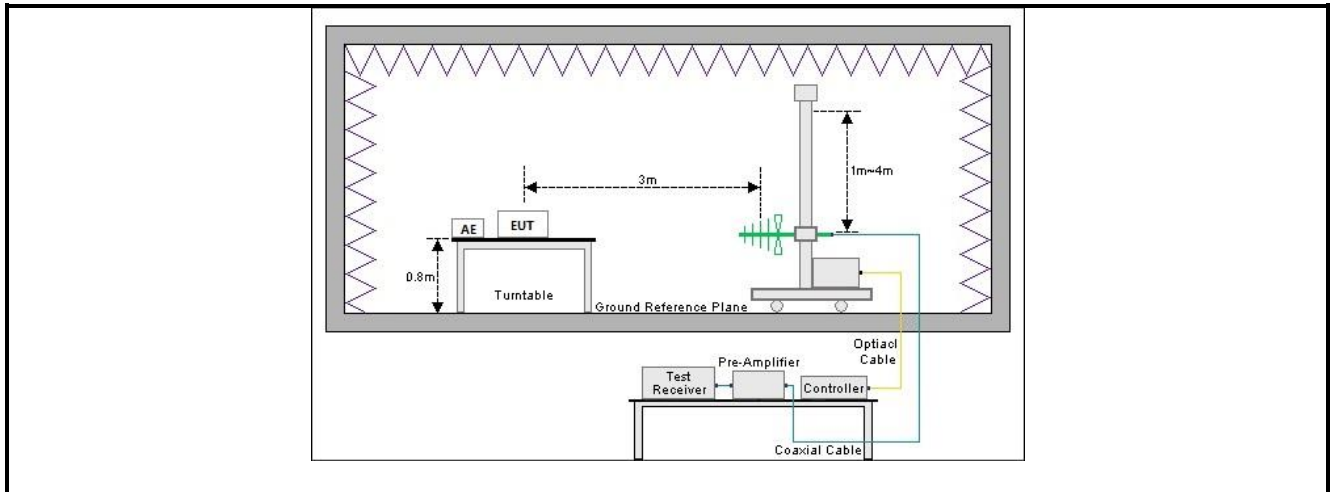
**Note:** The detailed descriptions please refer to Figure 8 of ANSI C63.4:2014.

**2) Radiated emission measurement:**

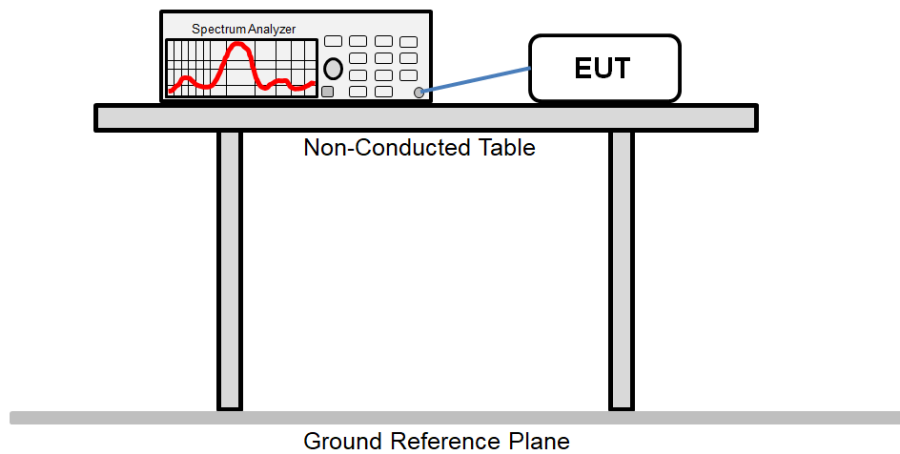
9kHz ~ 30 MHz (3m SAC)



30 MHz ~ 1GHz (3m SAC)



**Conducted test method:**



## 4.2 Test Procedure

| Test method           | Test step                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Conducted emission    | <ol style="list-style-type: none"> <li>1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment.</li> <li>2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).</li> <li>3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.</li> </ol>                                                                              |
| Radiated emission     | <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> |
| Conducted test method | <ol style="list-style-type: none"> <li>1. The antenna port of EUT was connected to the RF port of the spectrum analyzer through an RF cable.</li> <li>2. The EUT is keeping in continuous transmission mode and tested in all modulation modes.</li> <li>3. The test data is saved by the screenshot function of the spectrum analyzer.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |



## 5 Test Results

### 5.1 Summary

#### 5.1.1 Clause and Data Summary

This report is revised according to the JYTSZ-R12-2301387 report, FCC ID: 2ADYY-KJ7 issued by JianYan Testing Group Shenzhen Co., Ltd. Differences: Dual card to single card, change the SIM card seat, by replacing the software and card to achieve, PCB has not changed. And model update, so no need to retest.

| Test items                                                                                                                                                         | Standard clause                     | Test data                                      | Result                                         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|------------------------------------------------|------------------------------------------------|
| Antenna Requirement                                                                                                                                                | 15.203                              | Please refer to report No.: JYTSZ-R12-2301387. | Please refer to report No.: JYTSZ-R12-2301387. |
| AC Power Line Conducted Emission                                                                                                                                   | 15.207                              | Please refer to report No.: JYTSZ-R12-2301387. | Please refer to report No.: JYTSZ-R12-2301387. |
| 20dB Bandwidth                                                                                                                                                     | 15.215(c)                           | Please refer to report No.: JYTSZ-R12-2301387. | Please refer to report No.: JYTSZ-R12-2301387. |
| Field Strength of Fundamental                                                                                                                                      | 15.225 (a)(b)(c)                    | Please refer to report No.: JYTSZ-R12-2301387. | Please refer to report No.: JYTSZ-R12-2301387. |
| Field Strength of Spurious Emissions                                                                                                                               | 15.209<br>15.225 (d)                | Please refer to report No.: JYTSZ-R12-2301387. | Please refer to report No.: JYTSZ-R12-2301387. |
| Frequency Tolerance                                                                                                                                                | 15.225 (e)                          | Please refer to report No.: JYTSZ-R12-2301387. | Please refer to report No.: JYTSZ-R12-2301387. |
| <b>Remark:</b><br>1. Please refer to FCC ID: 2ADYY-KJ7, report No.: JYTSZ-R12-2301387 issue by JianYan Testing Group Shenzhen Co., Ltd.<br>2. N/A: Not Applicable. |                                     |                                                |                                                |
| <b>Test Method:</b>                                                                                                                                                | ANSI C63.4-2014<br>ANSI C63.10-2013 |                                                |                                                |

## 5.1.2 Test Limit

| Items                                | Limit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                |                                   |                               |               |             |            |                                |                                |         |              |    |        |         |       |   |          |       |   |           |       |   |           |     |   |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|-----------------------------------|-------------------------------|---------------|-------------|------------|--------------------------------|--------------------------------|---------|--------------|----|--------|---------|-------|---|----------|-------|---|-----------|-------|---|-----------|-----|---|
| AC Power Line Conducted Emission     | <table><tr><th rowspan="2">Frequency (MHz)</th><th colspan="2">Limit (dBμV)</th></tr><tr><th>Quasi-Peak</th><th>Average</th></tr><tr><td>0.15 – 0.5</td><td>66 to 56 <small>Note 1</small></td><td>56 to 46 <small>Note 1</small></td></tr><tr><td>0.5 – 5</td><td>56</td><td>46</td></tr><tr><td>5 – 30</td><td>60</td><td>50</td></tr></table> <p><b>Note 1:</b> The limit level in dBμV decreases linearly with the logarithm of frequency.<br/><b>Note 2:</b> The more stringent limit applies at transition frequencies.</p>                                                                                                                                                                                                                                                                                                                                                | Frequency (MHz)                | Limit (dBμV)                      |                               | Quasi-Peak    | Average     | 0.15 – 0.5 | 66 to 56 <small>Note 1</small> | 56 to 46 <small>Note 1</small> | 0.5 – 5 | 56           | 46 | 5 – 30 | 60      | 50    |   |          |       |   |           |       |   |           |     |   |
| Frequency (MHz)                      | Limit (dBμV)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                |                                   |                               |               |             |            |                                |                                |         |              |    |        |         |       |   |          |       |   |           |       |   |           |     |   |
|                                      | Quasi-Peak                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Average                        |                                   |                               |               |             |            |                                |                                |         |              |    |        |         |       |   |          |       |   |           |       |   |           |     |   |
| 0.15 – 0.5                           | 66 to 56 <small>Note 1</small>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 56 to 46 <small>Note 1</small> |                                   |                               |               |             |            |                                |                                |         |              |    |        |         |       |   |          |       |   |           |       |   |           |     |   |
| 0.5 – 5                              | 56                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 46                             |                                   |                               |               |             |            |                                |                                |         |              |    |        |         |       |   |          |       |   |           |       |   |           |     |   |
| 5 – 30                               | 60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 50                             |                                   |                               |               |             |            |                                |                                |         |              |    |        |         |       |   |          |       |   |           |       |   |           |     |   |
| 20dB Bandwidth                       | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                |                                   |                               |               |             |            |                                |                                |         |              |    |        |         |       |   |          |       |   |           |       |   |           |     |   |
| Field Strength of Fundamental        | (a) The field strength of any emissions within the band 13.553-13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters.<br>(b) Within the bands 13.410-13.553 MHz and 13.567-13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.<br>(c) Within the bands 13.110-13.410 MHz and 13.710-14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.<br>(d) The field strength of any emissions appearing outside of the 13.110-14.010 MHz band shall not exceed the general radiated emission limits in § 15.209.                                                                                                                                                                                                                                                                  |                                |                                   |                               |               |             |            |                                |                                |         |              |    |        |         |       |   |          |       |   |           |       |   |           |     |   |
| Field Strength of Spurious Emissions | <table><tr><th>Frequency (MHz)</th><th>Field strength (microvolts/meter)</th><th>Measurement distance (meters)</th></tr><tr><td>0.009 – 0.490</td><td>2400/F(kHz)</td><td>300</td></tr><tr><td>0.490 – 1.705</td><td>24000/F(kHz)</td><td>30</td></tr><tr><td>1.705 – 30.0</td><td>30</td><td>30</td></tr><tr><td>30 – 88</td><td>100**</td><td>3</td></tr><tr><td>88 – 216</td><td>150**</td><td>3</td></tr><tr><td>216 – 960</td><td>200**</td><td>3</td></tr><tr><td>Above 960</td><td>500</td><td>3</td></tr></table> <p>** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.</p> | Frequency (MHz)                | Field strength (microvolts/meter) | Measurement distance (meters) | 0.009 – 0.490 | 2400/F(kHz) | 300        | 0.490 – 1.705                  | 24000/F(kHz)                   | 30      | 1.705 – 30.0 | 30 | 30     | 30 – 88 | 100** | 3 | 88 – 216 | 150** | 3 | 216 – 960 | 200** | 3 | Above 960 | 500 | 3 |
| Frequency (MHz)                      | Field strength (microvolts/meter)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Measurement distance (meters)  |                                   |                               |               |             |            |                                |                                |         |              |    |        |         |       |   |          |       |   |           |       |   |           |     |   |
| 0.009 – 0.490                        | 2400/F(kHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 300                            |                                   |                               |               |             |            |                                |                                |         |              |    |        |         |       |   |          |       |   |           |       |   |           |     |   |
| 0.490 – 1.705                        | 24000/F(kHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 30                             |                                   |                               |               |             |            |                                |                                |         |              |    |        |         |       |   |          |       |   |           |       |   |           |     |   |
| 1.705 – 30.0                         | 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 30                             |                                   |                               |               |             |            |                                |                                |         |              |    |        |         |       |   |          |       |   |           |       |   |           |     |   |
| 30 – 88                              | 100**                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 3                              |                                   |                               |               |             |            |                                |                                |         |              |    |        |         |       |   |          |       |   |           |       |   |           |     |   |
| 88 – 216                             | 150**                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 3                              |                                   |                               |               |             |            |                                |                                |         |              |    |        |         |       |   |          |       |   |           |       |   |           |     |   |
| 216 – 960                            | 200**                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 3                              |                                   |                               |               |             |            |                                |                                |         |              |    |        |         |       |   |          |       |   |           |       |   |           |     |   |
| Above 960                            | 500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3                              |                                   |                               |               |             |            |                                |                                |         |              |    |        |         |       |   |          |       |   |           |       |   |           |     |   |
| Frequency Tolerance                  | The frequency tolerance of the carrier signal shall be maintained within ±0.01% of the operating frequency over a temperature variation of ?20 degrees to + 50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                |                                   |                               |               |             |            |                                |                                |         |              |    |        |         |       |   |          |       |   |           |       |   |           |     |   |

## 6 Test Setup Photo

Please refer to FCC ID: 2ADYY-KJ7, report No.: JYTSZ-R12-2301387.

-----End of report-----