



# FCC Part 96.47 Test Report

**Applicant** : Honeywell International Inc  
**Equipment** : Mobile computer/Smart phone  
**Brand Name** : Honeywell  
**Model Name** : CT47X1N  
**FCC ID** : HD5-CT47X1N  
**Standard** : FCC Part 96.47  
**Test Date(s)** : Nov. 14, 2022 ~ Nov. 17, 2022

We, Sporton International Inc. (ShenZhen), would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (ShenZhen), the test report shall not be reproduced except in full.

Jason Jia

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Approved by: Jason Jia



**Sporton International Inc. (ShenZhen)**

**1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055**

**People's Republic of China**



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## History of this test report

| Report No. | Version | Description             | Issued Date   |
|------------|---------|-------------------------|---------------|
| FG272913I  | 01      | Initial issue of report | Dec. 28, 2022 |
|            |         |                         |               |
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**Declaration of Conformity:**

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

**Comments and Explanations:**

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.



## Summary of Test Result

| Report Clause | Ref Std. Clause | Test Items                             | Result (PASS/FAIL) | Remark |
|---------------|-----------------|----------------------------------------|--------------------|--------|
| 3             | 96.47           | End User Device additional requirement | Pass               | -      |



# 1 General Description

## 1.1 Applicant

Honeywell International Inc  
9680 Old Bailes Rd, Fort Mill, SC 29707 United States

## 1.2 Manufacturer

Honeywell International Inc  
9680 Old Bailes Rd, Fort Mill, SC 29707 United States

## 1.3 Product Feature of Equipment Under Test

| Product Feature |                                 |
|-----------------|---------------------------------|
| Equipment       | Mobile computer/Smart phone     |
| Brand Name      | Honeywell                       |
| Model Name      | CT47X1N                         |
| FCC ID          | HD5-CT47X1N                     |
| IMEI Code       | 990019560037238/990019560037246 |
| HW Version      | V1.0                            |
| SW Version      | OS.21.001-HON.21.001            |
| EUT Stage       | Identical Prototype             |

**Remark:** The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

## 1.4 Product Specification of Equipment Under Test

| Standards-related Product Specification |                                  |
|-----------------------------------------|----------------------------------|
| Tx Frequency                            | LTE Band 48: 3550 MHz ~ 3700 MHz |
| Rx Frequency                            | LTE Band 48: 3550 MHz ~ 3700 MHz |
| Antenna Type                            | PIFA Antenna                     |
| Antenna Gain                            | Ant. 8 : -5.0 dBi                |
| Type of Modulation                      | QPSK / 16QAM / 64QAM / 256QAM    |



## 1.5 Testing Location

Sporton International Inc. (Shenzhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

|                           |                                                                                                                                                                         |                            |                                       |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------------------------------------|
| <b>Test Firm</b>          | Sporton International Inc. (Shenzhen)                                                                                                                                   |                            |                                       |
| <b>Test Site Location</b> | 1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China<br>TEL: +86-755-86379589<br>FAX: +86-755-86379595 |                            |                                       |
| <b>Test Site No.</b>      | <b>Sporton Site No.</b>                                                                                                                                                 | <b>FCC Designation No.</b> | <b>FCC Test Firm Registration No.</b> |
|                           | DFS01-SZ                                                                                                                                                                | CN1256                     | 421272                                |
| <b>Test Engineer</b>      | Fly Liang                                                                                                                                                               |                            |                                       |
| <b>Temperature</b>        | 21 ~ 23 °C                                                                                                                                                              |                            |                                       |
| <b>Relative Humidity</b>  | 45 ~ 46 %                                                                                                                                                               |                            |                                       |

## 1.6 Test Software

| Item | Site     | Manufactor | Name                           | Version |
|------|----------|------------|--------------------------------|---------|
| 1.   | DFS01-SZ | Sporton    | DFS & Adaptivity<br>Test Tools | 1.0     |

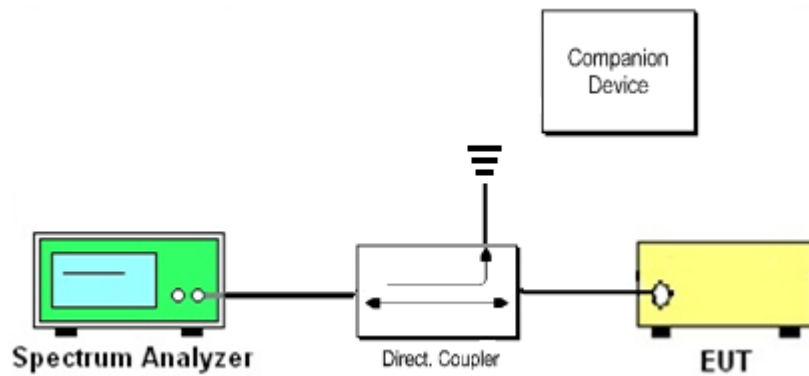
## 1.7 Applicable Standards

- ♦ FCC Part 96.47
- ♦ FCC KDB 940660 D01 Part 96 CBRS Eqpt v03
- ♦ WINNF-TS-0122-V1.0.2 CBRS CBSD Test Specification

**Remark:** All test items were verified and recorded according to the standards and without any deviation during the test.

## 2 Test Configuration of Equipment Under Test

### 2.1 Connection Diagram of Test System



The companion device is certified CBRS (FCC ID: S9GQ710US02)



### **3 End User Device additional requirement**

#### **3.1 Test Requirement**

FCC Part 96.47

(a) End User Devices may operate only if they can positively receive and decode an authorization signal transmitted by a CBSD, including the frequencies and power limits for their operation.

(1) An End User Device must discontinue operations, change frequencies, or change its operational power level within 10 seconds of receiving instructions from its associated CBSD.

#### **3.2 Test Procedure**

Following procedure can be done by applying WINNF-TS-0122-V1.0.1 CBRS CBSD Test Specification, use the certified Ruckus CBSD (FCC ID: S9GQ710US02) as companion device to show compliance with Part 96.47 requirement for End User Device (EUD):

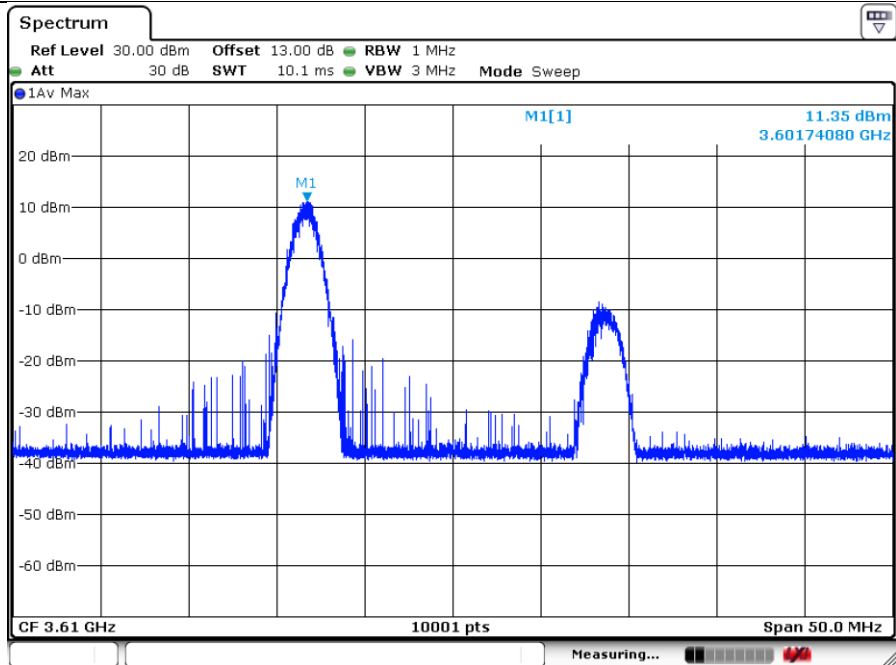
1. Setup with frequency 3600-3620MHz and power level 17dBm/MHz
2. Enable AP service from Ruckus Cloud management
3. Check EUD Tx Frequency and power
4. Disable AP service from Ruckus Cloud management
  - a. Check EUD stops transmission within 10seconds.
  
5. Setup with 3670-3690MHz & power level 7dBm/MHz
6. Enable AP service from Ruckus Cloud management
7. Check EUD Tx Frequency and power
8. Disable AP service from Ruckus Cloud management
  - a. Check EUD stops transmission within 10seconds.



### 3.3 Test Result

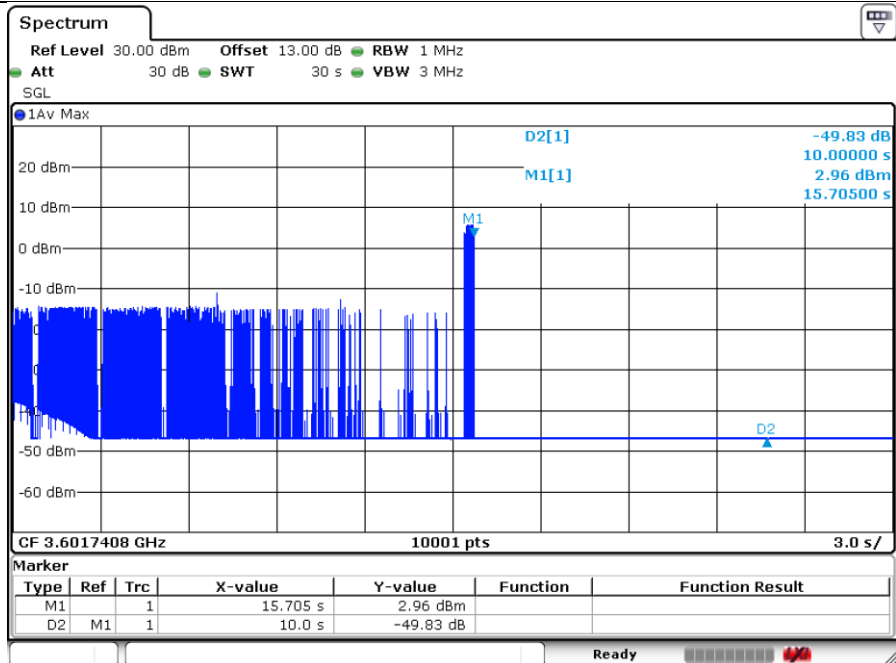
[Step 1] Setup with frequency 3600-3620MHz and power level 17dBm/MHz

[Step 3] Check EUD Tx Frequency and power



Date: 14.NOV.2022 17:35:46

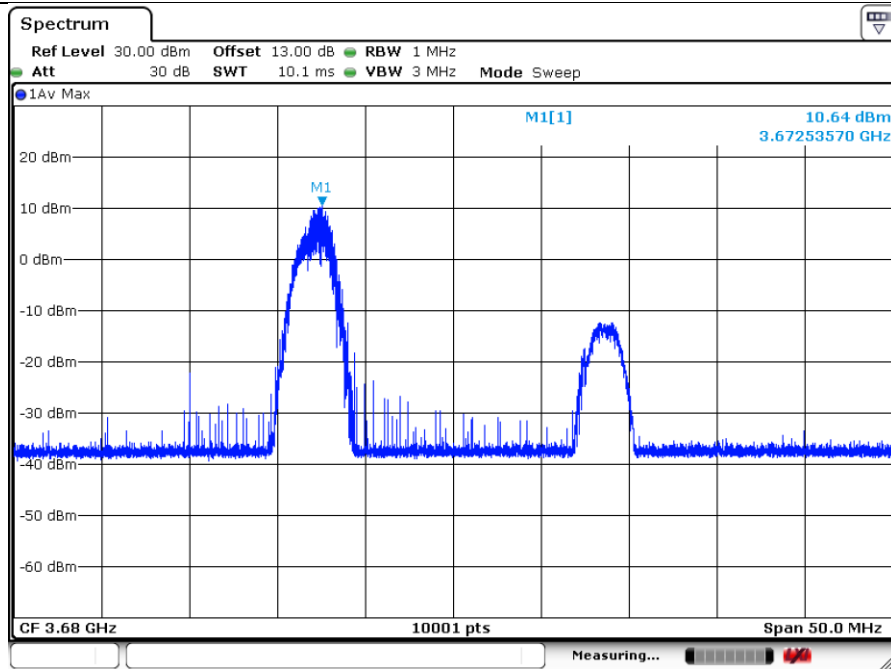
[Step 4.a.] EUD stops transmission within 10 seconds of receiving instructions from its associated CBSD.



Date: 14.NOV.2022 18:24:47

[Step 5] Setup with 3670-3690MHz & power level 7dBm/MHz

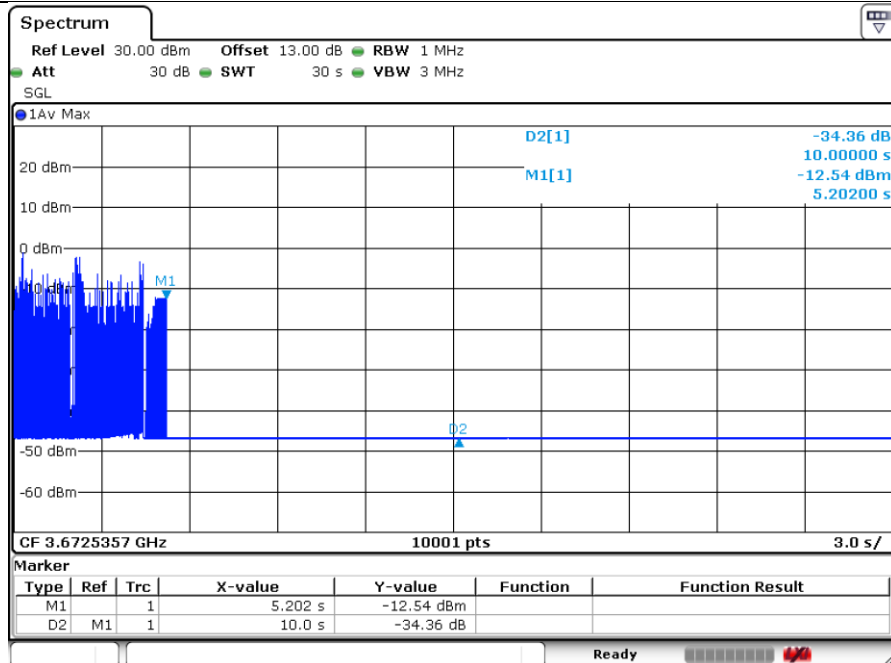
[Step 7] Check EUD Tx Frequency and power



Date: 17.NOV.2022 10:04:18

[Step 8.a.] After changing the frequency and power level,

The module (EUT) discontinues operations, change frequencies, or change its operational power level within 10 seconds of receiving instructions from its associated CBSD. Test result is PASS.



Date: 17.NOV.2022 10:09:43



## 4 List of Measuring Equipment

| Instrument                       | Manufacturer | Model No. | Serial No. | Characteristics | Calibration Date | Test Date                       | Due Date      | Remark               |
|----------------------------------|--------------|-----------|------------|-----------------|------------------|---------------------------------|---------------|----------------------|
| Signal Analyzer                  | R&S          | FSV7      | 101473     | 10Hz~7GHz       | Dec. 28, 2021    | Nov. 14, 2022~<br>Nov. 17, 2022 | Dec. 27, 2022 | Conducted (DFS01-SZ) |
| MXG-B RF Vector Signal Generator | Keysight     | N5182B    | MY56200424 | 9kHz~6GHz       | Apr. 07, 2022    | Nov. 14, 2022~<br>Nov. 17, 2022 | Apr. 06, 2023 | Conducted (DFS01-SZ) |

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