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Page Number



# FCC Part 96.47 TEST REPORT

FCC ID : XHG-RG1100 Equipment : Mobile Hotspot

Model Name : RG1100

Applicant : Franklin Technology Inc.

906 JEI Platz, 186, Gasan digital 1-ro, Gumcheon-Gu,

Seoul, South Korea, 08502

Manufacturer: Franklin Technology Inc.

906 JEI Platz, 186, Gasan digital 1-ro, Gumcheon-Gu,

Seoul, South Korea, 08502

Standard : FCC Part 96.47

The product was received on May 07, 2021 and testing was started from Jul. 22, 2021 and completed on Jul. 22, 2021. We, Sporton International Inc. EMC & Wireless Communications Laboratory, 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. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Approved by: Jones Tsai

TEL: 886-3-327-3456

Sporton International Inc. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)

FAX: 886-3-328-4978 Issued Date : Aug. 16, 2021 Report Template No.: BU5-FGLTE96.47 Version 2.0 Report Version : 01

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# History of this test report

Report No.: FG140852G

Report No.	Version	Description	Issued Date
FG140852G	01	Initial issue of report	Aug. 16, 2021

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# **Summary of Test Result**

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Report Clause	Ref Std. Clause	Test Items		Remark	
3	96.47	End User Device additional requirement	Pass		

#### **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.

Reviewed by: Avis Chuang Report Producer: Dara Chiu

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## 1 General Description

### 1.1 Product Feature of Equipment Under Test

WCDMA/LTE/5G NR, Wi-Fi 2.4GHz 802.11b/g/n/ax, and Wi-Fi 5GHz 802.11n/ac/ax

Product Specification subjective to this standard			
	WWAN: PIFA Antenna		
Antonna Typa	WLAN:		
Antenna Type	<ant. 4="">: PIFA Antenna</ant.>		
	<ant. 2="">: PIFA Antenna</ant.>		

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**Remark:** The above EUT's information was declared by manufacturer. Please refer to Comments and Explanations in report summary.

#### 1.2 Modification of EUT

No modifications are made to the EUT during all test items.

#### 1.3 Testing Location

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory		
Test Site Location	No.52 , Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978		
Test Site No.	Sporton Site No.		
lest Site No.	DFS02-HY		
Test Engineer	Thomas Chen		
Temperature	21 ~ 24 °C		
Relative Humidity	45 ~ 48 %		

FCC Designation No.: TW1190

### 1.4 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

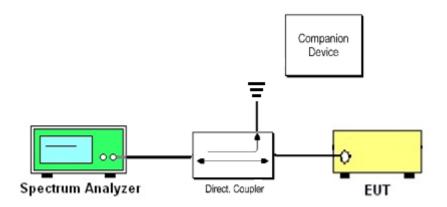
#### Remark:

- All test items were verified and recorded according to the standards and without any deviation during the test.
- 2. The TAF code is not including all the FCC KDB listed without accreditation.

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# 2 Test Configuration of Equipment Under Test

# 2.1 Connection Diagram of Test System



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

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### 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.

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(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.

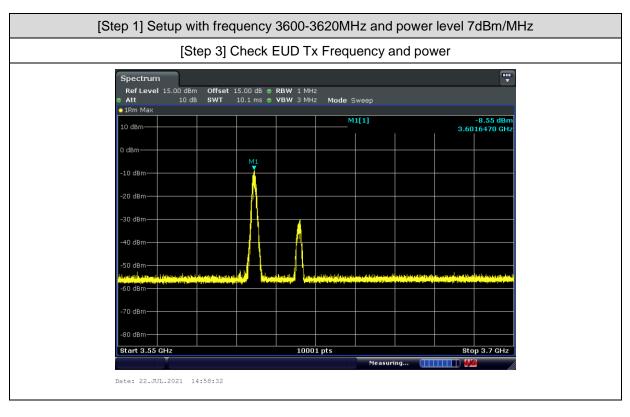
#### 3.2 Test Procedure

Following procedure can be done by applying WINNF-TS-0122-V1.0.2 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):

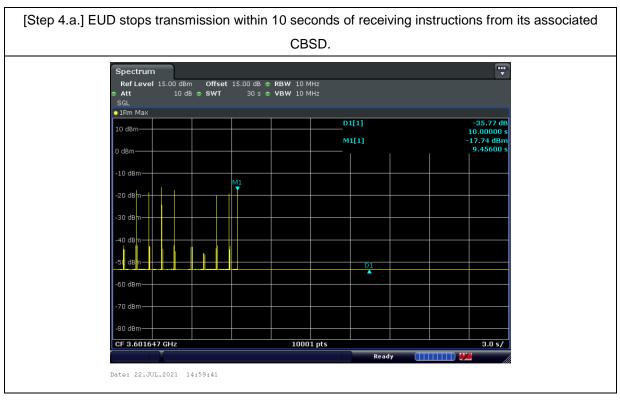
- 1. Setup with frequency 3600-3620MHz and power level 7dBm/MHz
- 2. Enable AP service from Ruckus Cloud management
- 3. Check EUD Tx Frequency and power
- 4. Disable AP service from Ruckus Cloud management
  - a. Check EUD stops transmission within 10seconds.
- 1. Setup with 3670-3690MHz & power level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

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#### 3.3 Test Result

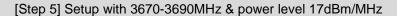


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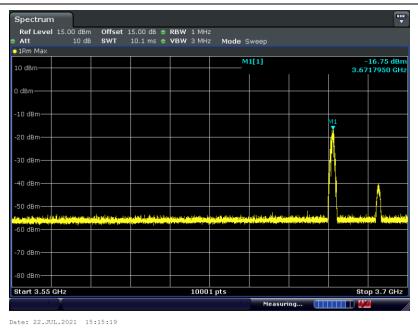




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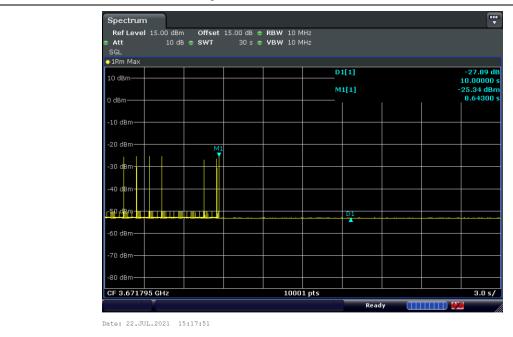
: 01

#### [Step 7] Check EUD Tx Frequency and power



[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.



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# 4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	Rohde & Schwarz	FSV30	100895	9kHz~30GHz	Jun. 30, 2021	Jul. 22, 2021	Jun. 30, 2022	DFS02-HY

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