FCC Part 96.47 Test Report

Report No.: FG0O3022G

: 1 of 11

: Feb. 07, 2021

Page Number

Issued Date

Applicant : Fibocom Wireless Inc.

Equipment : LTE Module
Brand Name : Fibocom
Model Name : L860-GL-16
FCC ID : ZMOL860GL16
Standard : FCC Part 96.47

The product was received on Oct. 30, 2020 and completed tested on Jan. 20, 2021. We, Sporton International (Kunshan) Inc., 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 (Kunshan) Inc., the test report shall not be reproduced except in full.

JasonJia

Reviewed by: Jason Jia / Supervisor

Approved by: James Huang / Manager

Sporton International (Kunshan) Inc.

No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China

Sporton International (Kunshan) Inc.

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APPENDIX A. TEST SETUP PHOTO

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History of this test report

Report No.: FG0O3022G

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Report No.	Version	Description	Issued Date
FG0O3022G	01	Initial issue of report	Feb. 07, 2021

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.

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Summary of Test Result

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

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1 General Description

1.1 Applicant

Fibocom Wireless Inc.

1101, Tower A, Building 6, Shenzhen International Innovation Valley, Dashi 1st Rd, Nanshan, Shenzhen, China

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1.2 Manufacturer

Fibocom Wireless Inc.

1101,Tower A, Building 6, Shenzhen International Innovation Valley, Dashi 1st Rd, Nanshan,Shenzhen, China

1.3 Product Feature of Equipment Under Test

Product Feature				
Equipment	LTE Module			
Brand Name	Fibocom			
Model Name	L860-GL-16			
FCC ID	ZMOL860GL16			
EUT supports Radios application	WCDMA/LTE/GNSS			
HW Version	V1.3			
SW Version	18601.5001.00.01.01			
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				
Maximum Output Power to Antenna	20.88 dBm				
Antenna Type	PIFA Antenna				
Antenna Gain	1.00dBi				
Type of Modulation	LTE: QPSK / 16QAM / 64QAM				

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1.5 Testing Location

Sporton International (Kunshan) Inc. is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

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Test Firm	Sporton International (Kunshan) Inc.					
	No. 1098, Pengxi North Road, Kunshan Economic Development Zone					
Test Site Location	Jiangsu Province 215300 People's Republic of China					
rest Site Location	TEL: +86-512-57900158					
	FAX: +86-512-57900958					
	Sporton Site No.	FCC Designation No.	FCC Test Firm			
Test Site No.	Sporton Site No.	1 00 Designation No.	Registration No.			
	DFS01-KS		1			
Test Engineer	Eloise Wang	CN1257	314309			
Temperature	21 ~ 24 ℃	CN1257	314309			
Relative Humidity	38 ~ 50 %					

1.6 Test Software

Item	Site	Manufactor	Name	Version
1.	DFS01-KS	Sporton	DFS & Adaptivity Test Tools	1.0

1.7 Applicable Standards

- FCC Part 96.47
- FCC KDB 940660 D01 Part 96 CBRS Eqpt v03
- WINNF-TS-0122-V1.0.1 CBRS CBSD Test Specification

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

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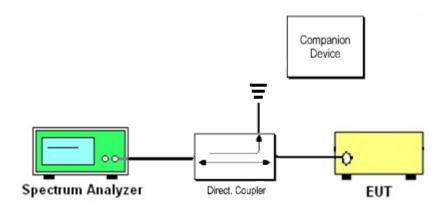
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2 Test Configuration of Equipment Under Test

2.1 Connection Diagram of Test System



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.
- (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.

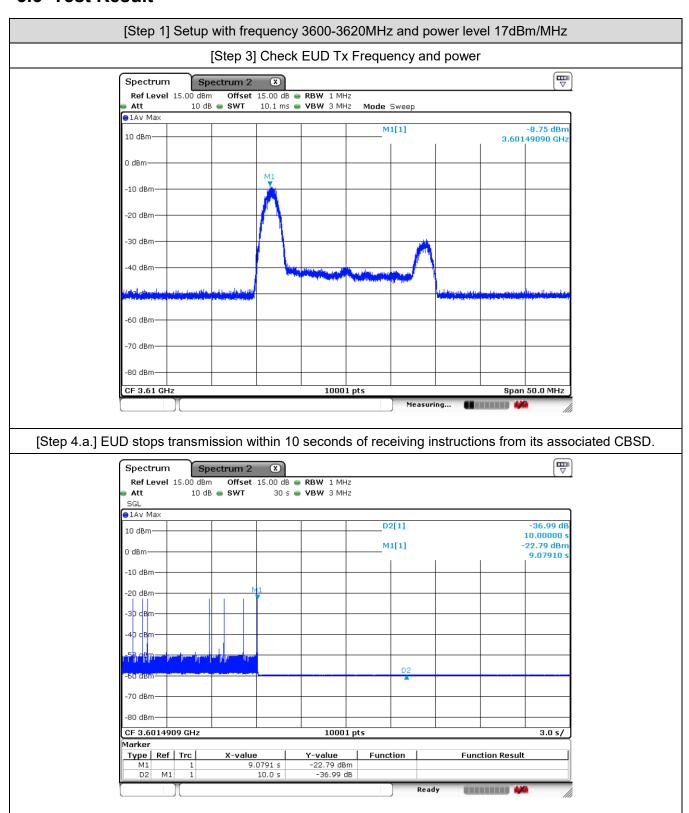
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3.3 Test Result



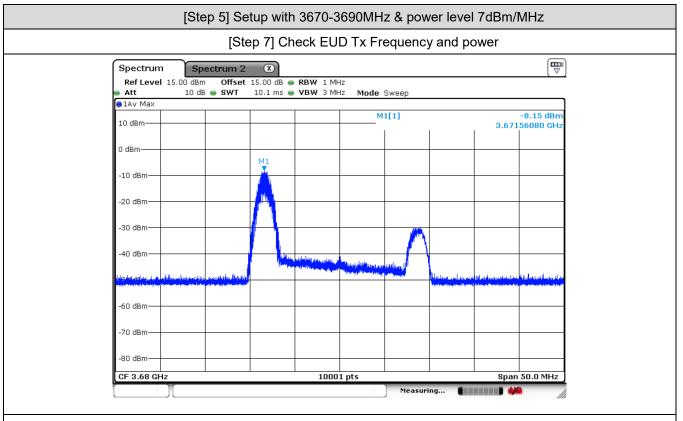
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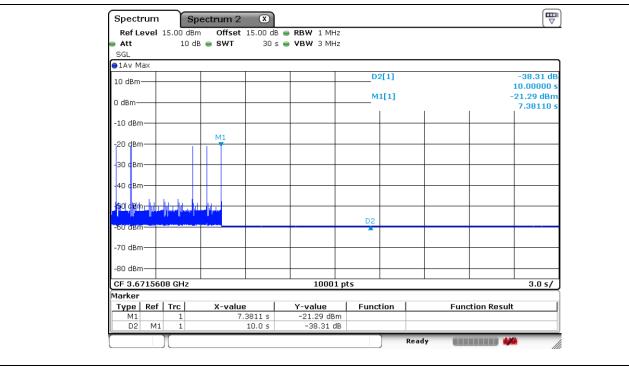
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[Step 8.a.] After changing the frequency and power level,

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
Signal Analyzer	R&S	FSV7	101472	10Hz~7GHz	Jan. 07, 2021	Jan. 20, 2021	Jan. 06, 2022	Conducted (DFS01-KS)

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