

Report No.: SZCR210502103201

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# TEST REPORT

**Application No.:** SZCR2105021032AT **Applicant:** Fibocom Wireless Inc.

Address of Applicant: 1101, Tower A, Building 6, Shenzhen International Innovation Valley, Dashi

1st Rd, Nanshan, Shenzhen, China

**Manufacturer:** Fibocom Wireless Inc.

Address of Manufacturer: 1101, Tower A, Building 6, Shenzhen International Innovation Valley, Dashi

1st Rd, Nanshan, Shenzhen, China

**Equipment Under Test (EUT):** 

EUT Name: 5G module
Model No.: FG360-NA
Trade Mark: Fibocom

FCC ID: ZMOFG360NA Standard(s): FCC Part 96.47

FCC KDB 940660 D01 Part 96 CBRS Eqpt v02

WINNF-TS-0122-V1.0.1 CBRS CBSD Test Specification

WINNF-18-IN-00178 CBRS End User Device as UUT Test Guidelines

**Date of Receipt:** 2021-05-24

**Date of Test:** 2021-05-31 to 2021-06-01

**Date of Issue:** 2021-06-01

Test Result: Pass\*

Keny Xu EMC Laboratory Manager

Ceny. Ku



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<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.



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	Revision Record					
Version	Chapter	Date	Modifier	Remark		
01		2021-06-01		Original		

Authorized for issue by:		
	Jacky Li	
	Jacky Li /Project Engineer	-
	EvicFu	
	Eric Fu /Reviewer	-



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### **Test Summary**

Item	Standard	Test Case ID	Result
End User Device additional requirement	96.47	1	Pass

The UUT is an End User Device. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

#### Test standards:

FCC Part 96.47

FCC KDB 940660 D01 Part 96 CBRS Eqpt v02

WINNF-TS-0122-V1.0.1 CBRS CBSD Test Specification

WINNF-18-IN-00178 CBRS End User Device as UUT Test Guidelines



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### **General Information**

#### 4.1 Details of E.U.T.

Power supply:	Adapter
	Model NO.: PSC36U-120
	Input: 100-240V~50/60Hz, 0.8A
	Output: 12VDC, 3.0A
Sample Type:	End User device
Transmitter Frequency Band:	LTE Band 48
Transmitter Frequency Range:	3550~3700MHz
Hardware Version:	V1.0
Software Version:	81103.7000.30.02.01.09
Antenna Gain:	-0.13dBi

#### 4.2 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	± 7.25 x 10 <sup>-8</sup>
2	RF conducted power	± 0.75dB
3	Temperature test	± 1°C
4	Humidity test	± 3%
5	Supply voltages	± 1.5%
6	Time	± 3%



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#### 4.3 Description of Support Units

Description	cription Manufacturer Model No.		Serial No.	
EPC	Lanner Electronics Inc.	LICA-1513A	LR202002004052	
Router	TP-LINK	TL-R860+	1175379002425	
Base station	Japan Radio Co., Ltd.	JRL-113BT48 (FCC ID: CKEJRL-113BT48)	1202000240199PP0147	

#### 4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.





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# **Equipment List**

Test Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Laptop (With SAS Test hamess)	Lenovo	Pro-13API 2019	REF. No.SEA1800	1	/
Spectrum Analyzer	Keysight	N9020A	SEM004-17	2021-05-21	2022-05-20
Shield Room	SAEMC	MSR433	SEM001-11	2021-03-13	2022-03-12
Coaxial Cable	SGS	N/A	SEM031-01	2020-07-11	2021-07-10
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-03	2020-09-27	2021-09-26



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#### 6 Test Method and Environment

#### **End User Device Conformance and Performance**

FCC Part 96.47 Test Requirement:

WINNF-18-IN-00178 CBRS End User Device as UUT Test Guidelines Test Method:

#### 6.2 Test Environment

**Environmental Conditions:** 25deg. C, 65%RH

#### 6.3 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.
- b). 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.

#### 6.4 Test Procedure

Following procedure can be done by applying WINNF-TS-0122-V1.0.1 CBRS CBSD Test Specification, use the certified Base station CBSD (FCC ID: CKEJRL-113BT48) as companion device to show compliance with Part 96.47 requirement for End User Device (EUD):

- 1. Setup with frequency 3570-3590MHz and power level 18dBm/MHz;
- 2. Enable CBSD service;
- Check EUD Tx Frequency and power;
- 4. Disable AP service;
- 5. Check EUD stops transmission within 10seconds;
- Setup with 3610-3630MHz & power level 10dBm/MHz;
- 7. Enable CBSD service;
- 8. Check EUD Tx Frequency and power;
- 9. Disable CBSD service;
- 10. Check EUD stops transmission within 10seconds.



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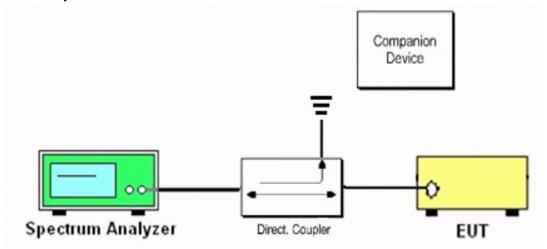
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#### 6.5 Test Setup



End User Device as UUT, the companion device is certified CBRS (FCC ID: CKEJRL-113BT48)



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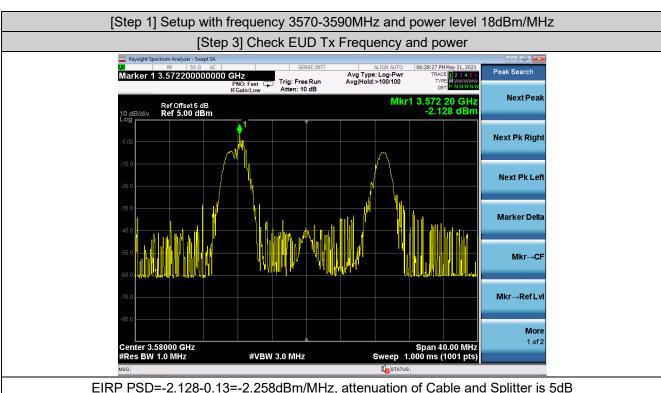
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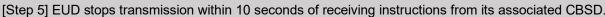


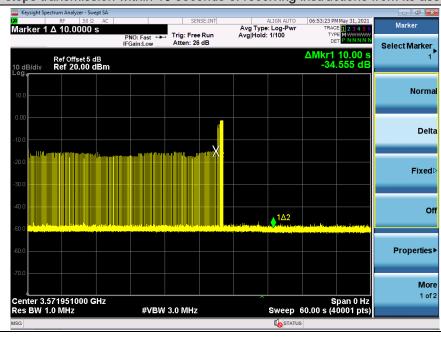
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#### 6.6 Test Result









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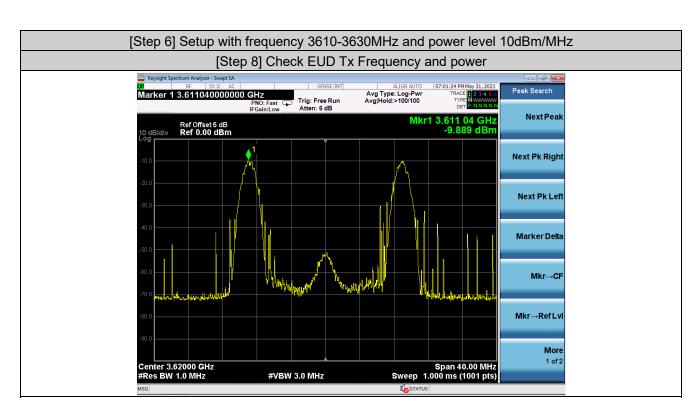
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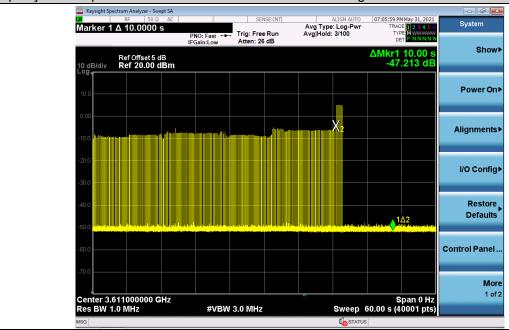
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EIRP PSD=-9.889-0.13=-10.019dBm/MHz, attenuation of Cable and Splitter is 5dB

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





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#### **Photographs** 7

#### 7.1 EUT Constructional Details (EUT Photos)

Please Refer to external and internal photos for details.

- End of the Report -



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