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TEST REPORT

Application No.:	KSCR2304000731AT
FCC ID:	ZMOFM350GL
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 (EU	Т):
EUT Name:	5G Module
Model No.:	FM350-GL
Trade Mark:	FIBOCOM
Standard(s):	FCC Part 96.47
	FCC KDB 940660 D01 Part 96 CBRS Eqpt v03
	WINNF-TS-0122-V1.0.2 CBRS CBSD Test Specification
	WINNF-18-IN-00178 CBRS End User Device as UUT Test Guidelines
Date of Receipt:	2023-04-28
Date of Test:	2023-04-28 to 2023-05-05
Date of Issue:	2023-05-05
Test Result:	Pass*

* In the configuration tested, the EUT complied with the standards specified above.

Ena fri

Eric Lin Laboratory Manager



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Revision Record					
Version	Remark				
00 Original		2023-05-06	/		

Authorized for issue by:		
	Damon zhou	
	Damon Zhou / Project Engineer	
	Eni fri	
	Eric Lin / Reviewer	



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2 Test Summary

Item	Standard	Test Case ID	Result
End User Device additional requirement	96.47	/	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 v03 WINNF-TS-0122-V1.0.2 CBRS CBSD Test Specification WINNF-18-IN-00178 CBRS End User Device as UUT Test Guidelines



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4 General Information

4.1 Details of E.U.T.

	Power supply:	DC3.3V	
Sample Type:		End User device	
	Transmitter Frequency Band:	5GNR: n48	
	Transmitter Frequency Range:	3550~3700MHz	
Antenna Type:		External Antenna	
	Antenna information:	N48: M2	
	Hardware Version:	V1.0.6	
	Software Version:	81600.0000.00.29.22.06	
	Antenna Gain:	1dBi	

4.2 Measurement Uncertainty

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

4.3 Description of Support Units

Description	Manufacturer	Model No.	Serial No.	
5GC	astir	astir_5GC	A372768X0507398	
Router	TP-Link	TL-R860+	1175379002425	
Base Band Unit	ВТІ	sCELL- G52091NAX	L603JESE1I	
Remote Radio Unit	BTI	RU4370 (FCC ID: WBK-RU4370)	C0214921000004S	



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4.4 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China. Tel: +86 512 5735 5888 Fax: +86 512 5737 0818

No tests were sub-contracted.

Note:

1.SGS is not responsible for wrong test results due to incorrect information (e.g., max. internal working frequency, antenna gain, cable loss, etc) is provided by the applicant. (If applicable).

2.SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (If applicable).

4.5 Test Facility

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

• A2LA

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 2541.01.

• FCC

Compliance Certification Services (Kunshan) Inc. has been recognized as an accredited testing laboratory. Designation Number: CN1172.

• ISED

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory. Company Number: 2324E

• VCCI

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-20134, R-11600, C-11707, T-11499, G-10216 respectively.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions None



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5 Equipment List

Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
Laptop	Lenovo	Y510P	HFL000026	N/A	N/A
Spectrum Analyzer	KEYSIGHT	N9030B	KSEM021-1	2023/02/03	2024/02/02
Shield Room	YanChuang	N/A	KS301115-2	N/A	N/A
Coaxial Cable	Thermax	N/A	13	2022/09/16	2023/09/15
Attenuator	Mini-Circuits	NAT-6-2W	15542-1	N.C.R.	N.C.R.
Humidity / Temperature Indicator	Renke	RS-WS-N01- 6J	1032844	2023/03/22	2024/03/21



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6 Test Method and Environment

6.1 End User Device Conformance and Performance

Test Requirement:FCC Part 96.47Test Method:WINNF-18-IN-00178 CBRS End User Device as UUT Test Guidelines

6.2 Test Environment

Environmental Conditions: 25°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.



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6.4 Test Procedure

Following procedure can be done by applying WINNF-TS-0122-V1.0.2 CBRS CBSD Test Specification, use the certified 5GNR Base station CBSD (FCC ID: WBK-RU4370) as companion device to show compliance with Part 96.47 requirement for End User Device (EUD):

For 5G NR:

- 1. Setup with frequency 3550-3570MHz and power level 8dBm/MHz;
- 2. Enable CBSD service ;
- 3. Check EUD Tx Frequency and power;
- 4. Disable AP service ;
- 5. Check EUD stops transmission within 10seconds;
- 6. Setup with 3590-3610MHz & power level 14dBm/MHz;
- 7. Enable CBSD service;
- 8. Check EUD Tx Frequency and power;
- 9. Disable CBSD service;
- 10. Check EUD stops transmission within 10seconds.

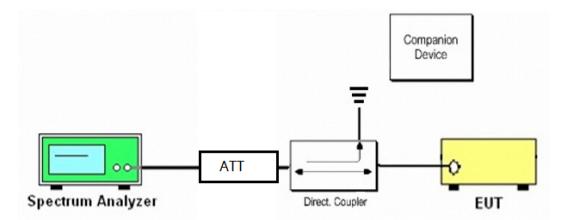


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6.5 Test Setup



For 5G NR:

End User Device as UUT, the companion device is certified CBRS (FCC ID: WBK-RU4370)



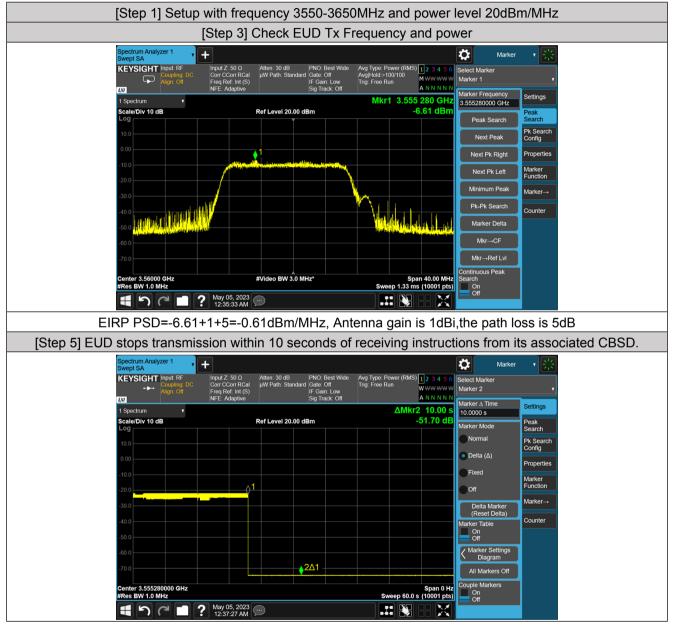
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6.6 Test Result

For 5GNR

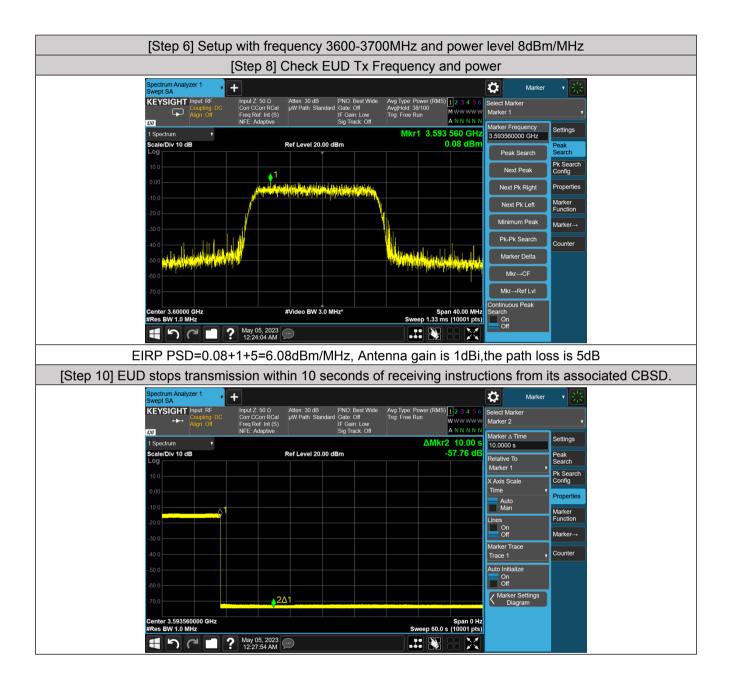




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7 Test Setup Photographs

Refer to Appendix - Photographs of EUT Constructional Details for KSCR2304000731AT

- End of the Report -



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