

Report No.: SUZR/2021/7002002

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RF Exposure Evaluation Report

Application No.: ZR/2021/70020

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

EUT Description:5G moduleModel No.:FG360-NATrade Mark:Fibocom

FCC ID: ZMOFG360NA Standards: 47 CFR Part 2 1091

FCC KDB 447498 D01 v06

Date of Receipt: 2021/10/1

Date of Test: 2021/10/22 to 2021/10/27

Date of Issue: 2021/10/30

Test Result: PASS*

Authorized Signature:

Panta Sun

Wireless Laboratory Manager



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



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1 Version

Revision Record									
Version	Chapter	Date	Modifier	Remark					
01		2021/10/30		Original					

Authorized for issue by:	
Prepared By	(Tizzy Song) / Engineer
Checked By	(Well Wei) /Reviewer



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2 General Information

2.1 Client Information

Applicant: Fibocom Wireless Inc.				
	1101,Tower A, Building 6, Shenzhen International Innovation			
Address of Applicant:	Valley, Dashi 1st Rd, Nanshan, Shenzhen, China			
Manufacturer:	Fibocom Wireless Inc.			
	1101,Tower A, Building 6, Shenzhen International Innovation			
Address of Manufacturer:	Valley, Dashi 1st Rd, Nanshan, Shenzhen, China			

2.2 Test Location

Company:	SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd
Address:	South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone
Post code:	215000
Test engineer:	Tizzy song

2.3 Test Facility

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

• A2LA (Certificate No. 6336.01)

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

• Innovation, Science and Economic Development Canada

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

• FCC -Designation Number: CN1312

 ${\tt SGS-CSTC\ STANDARDS\ TECHNICAL\ SERVICES\ (SUZHOU)\ CO.,\ LTD.\ has\ been\ recognized\ as\ an}$

accredited testing laboratory. Designation Number: CN1312.

Test Firm Registration Number:0031225543



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2.4 General Description of EUT

EUT Description:	5G module			
Model No.:	FG360-NA			
Trade Mark:	Fibocom			
Hardware Version:	V1.0			
Software Version:	81103.7000.30.02.01.09			
IMEI:	861139050018252			
Sample Type:	☐ Portable Device, ☑Module			
Antenna Type:	⊠ External, ☐ Integrated			
RF Cable*:	□ Provided by the applicant			
RF Cable .	0.9dB			
Antenna Gain*:	□ Provided by the applicant			
Antenna Gam .	LTE CA_41C:1.52dBi;			

Remark:

*Since the above data and/or information is provided by the applicant relevant results or conclusions of this report are only made for these data and/or information, SGS is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.



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3 RF Exposure Evaluation

3.1 RF Exposure Compliance Requirement

3.1.1 Limits

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm2)	Averaging time (minutes)						
(A) Limits for Occupational/Controlled Exposures										
0.3-3.0 614 1.63 *(100) 6										
3.0-30	1842/f	4.89/f	*(900/f2)	6						
30-300	61.4	0.163	1.0	6						
300-1500	1	1	f/300	6						
1500-100,000	1	1	6							
(B) Limits for General Population/Uncontrolled Exposure										
0.3-1.34	0.3-1.34 614 1.63 *(100) 30									
1.34-30	1.34-30 824/f		2.19/f *(180/f2)							
30-300	27.5	0.073	0.2	30						
300-1500	1	1	f/1500	30						
1500-100,000	1	1	1.0	30						

F=frequency in MHz

RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules. The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz:614V/m,1.63A/m).

Friis Formula

Friis transmission formula: Pd = (Pout*G)/(4* Pi * R 2)

Where

Pd = power density in mW/cm2

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm



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^{*=}Plane-wave equivalent power density



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Pd id the limit of MPE, 1 mW/cm2. If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.



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3.1.2 Test Procedure

Software provided by client enabled the EUT to transmit data at lowest, middle and highest channel individually

3.1.3 EUT RF Exposure Evaluation

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 2.0 / 2.0 in linear scale. Output Power Into Antenna & RF Exposure Evaluation Distance:

Operating Band	Frequenc y (MHz)	Antenna Gain (dBi)	Max Conducted Average Output Power (dBm)	Output Power to Antenna (dBm)	EIRP(ERP) Limit (dBm)	Output Power to Antenna (mw)	Power Density at R = 20 cm (mW/cm2)	Limit (mW/cm2)	Gain according to EIRP (dBi)	Gain according to Pd (dBi)	Max Gain Allowed (dBi)	conclusion
LTE CA_41C	2498.5	1.52	27.50	29.02	33.00	562.3413	0.1588	1.0000	5.50	9.51	5.50	Pass

The End



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