



REPORT No.: SZ25110347S01

RF EXPOSURE EVALUATION REPORT

APPLICANT : Fibocom Wireless Inc

PRODUCT NAME : WIFI Module

MODEL NAME : SC208-W

BRAND NAME : FIBOCOM

FCC ID : ZMOSC208W

STANDARD(S) : 47 CFR Part 2(2.1091)

RECEIPT DATE : 2025-11-27

TEST DATE : 2025-12-02 to 2025-12-31

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Edited by:

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MORLAB

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Change History		
Version	Date	Reason for change
1.0	2026-01-20	First edition



1. Technical Information

Note: Provide by applicant.

1.1 Applicant and Manufacturer Information

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

1.2 Equipment under Test (EUT) Description

Product Name:	WIFI Module		
Sample No.:	1#, 3#, 4#		
Hardware Version:	V1.2		
Software Version:	SC208-W-U16.00.011		
Frequency Bands:	WLAN 2.4GHz	2412MHz-2462MHz	
	WLAN 5GHz	5180MHz-5240MHz; 5260MHz-5320MHz; 5500MHz-5720MHz; 5745MHz-5825MHz	
	Bluetooth	2402MHz-2480MHz	
Modulation Mode:	WLAN 2.4GHz	DSSS, OFDM	
	WLAN 5GHz	OFDM, OFDM	
	Bluetooth	GFSK, $\pi/4$ -DQPSK, 8-DPSK	
Antenna Information:	WLAN 2.4GHz / Bluetooth		
	Antenna Type:	Dipole Antenna	
	Antenna Gain:	1.83dBi	
	WLAN 5GHz		
	Antenna Type:	Dipole Antenna	
	Antenna Gain:	5180MHz-5240MHz	4.29dBi
		5260MHz-5320MHz	4.43dBi
		5500MHz-5720MHz	3.68dBi
		5745MHz-5825MHz	1.47dBi

Note 1: The EUT description presented in the report are provided by applicant and/or manufacturer, and the test laboratory is not responsible for the accuracy of the information. For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or



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manufacturer.

1.3 Applied Reference Documents

Leading reference documents for testing:

Identity	Document Title	Remark
47 CFR Part 2(2.1091)	Radio Frequency Radiation Exposure Assessment: mobile devices	/
KDB 447498 D01v06	General RF Exposure Guidance	/
Note 1: Any additions, deviation, or exclusions from the method shall be noted in the "Remark".		



2. Device Category and RF Exposure Limit

Per user manual, based on 47 CFR 2.1091, this device belongs to mobile device category with General Population/Uncontrolled exposure.

Mobile Devices:

47 CFR 2.1091(b)

For purposes of this section, a mobile device is defined as a transmitting device designed to be used in other than fixed locations and to generally be used in such a way that a separation distance of at least 20 centimeters is normally maintained between the transmitter's radiating structure(s) and the body of the user or nearby persons. In this context, the term "fixed location" means that the device is physically secured at one location and is not able to be easily moved to another location. Transmitting devices designed to be used by consumers or workers that can be easily re-located, such as wireless devices associated with a personal computer, are considered to be mobile devices if they meet the 20 centimeter separation requirement.

General Population/Uncontrolled Exposure:

The general population/uncontrolled exposure limits are applicable to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes persons in its vicinity. Warning labels placed on low-power consumer devices such as cellular telephones are not considered sufficient to allow the device to be considered under the occupational/controlled category, and the general population/uncontrolled exposure limits apply to these devices.

Table 1 Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500	-	-	f/1500	30
1500-100,000	-	-	1.0	30

f = frequency in MHz* = Plane-wave equivalent power density



3. Maximum Average Power Summary

Wireless Mode	Channel	Frequency (MHz)	Max. Average Power (dBm)	Tune-up Limit (dBm)
WLAN 2.4GHz	CH 13	2472	18.06	19.00
WLAN 5GHz	CH 144	5720	14.78	16.00
Bluetooth	CH 39	2441	11.93	13.00

Note 1: According to KDB 447498, MPE assessment is based on source-based time-averaged maximum conducted output power of the RF channel requiring assessment, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions.

Note 2: The maximum average power refers to report (Report No.: SZ25110347W01/W02/W03/W04).

4. RF Exposure Assessment

➤ Standalone Transmission Assessment

<Standalone Antenna Transmission Assessment>

Bands	Frequency (MHz)	Tune-up Power(dBm)	Antenna Gain(dBi)	E.I.R.P. (mW)	Power Density (mW/cm ²)	Limit for MPE (mW/cm ²)
WLAN 2.4GHz	2472	19.00	1.83	121.06	0.024	1.0
WLAN 5GHz	5720	16.00	3.68	92.90	0.018	1.0
Bluetooth	2441	13.00	1.83	30.41	0.006	1.0

Note:

1. According to KDB 447498, MPE assessment is based on source-based time-averaged maximum conducted output power of the RF channel requiring assessment, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions.
2. MPE calculate method

$$S = PG/4\pi R^2$$

Where: S= Power density (in appropriate units, e.g. mW/cm²)

P = Time-average maximum tune-up power (in appropriate units, e.g. dBm)

G = numeric gain of the antenna (in appropriate units, e.g. dBi)

R = Separation distance to the centre of radiation of the antenna (20cm)



➤ **Simultaneous Transmission Assessment:**

Multi-Band Simultaneous Transmission Consideration

Simultaneous Transmission Consideration	Position	Applicable Combination
	Body	WLAN 2.4GHz + Bluetooth
		WLAN 5GHz + Bluetooth

Note 1: This device contains transmitters that may operate simultaneously, therefore simultaneous transmission analysis is required as below.

Applicable Combination	Transmission Bands	Power Density (mW/cm²)	Limit (mW/cm²)	Simultaneous Transmission Result
WLAN 2.4GHz + Bluetooth	WLAN 2.4GHz	0.024	1.0	0.030
	Bluetooth	0.006	1.0	
WLAN 5GHz + Bluetooth	WLAN 5GHz	0.018	1.0	0.024
	Bluetooth	0.006	1.0	
Note 1: Formula for result=Power density ₁ / limit ₁ + Power density ₂ / limit ₂ ≤1.				
Note 2: The highlight applicable combination is the worst condition.				

➤ **Conclusion:**

According to 47 CFR 2.1091, this device complies with human exposure basic restrictions.



Annex A Testing Laboratory Information

1. Identification of the Responsible Testing Laboratory

Laboratory Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Laboratory Address:	FL.1-3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China
Telephone:	+86 755 36698555
Facsimile:	+86 755 36698525

2. Identification of the Responsible Testing Location

Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Address:	FL.1-3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China

3. Facilities and Accreditations

All measurement facilities used to collect the measurement data are located at FL.3, Building A, FeiYang Science Park, Block 67, BaoAn District, Shenzhen, 518101 P. R. China. The test site is constructed in conformance with the requirements of ANSI C63.10-2013 and CISPR Publication 22; the FCC designation number is CN1192, the test firm registration number is 226174.

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