



EMF TEST REPORT

Product Name: Wi-Fi Module

Model Number: WS8712, WS8712X, WS8712P, WS8712X-C5, WS8712P-C5, WS8712X-C6, WS8712P-C6, WS8712x

FCC ID: 2BB8U-WS8712

Issued For : Chengdu Silent Smart Technology Co., Ltd.
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Issued By : Shenzhen LGT Test Service Co., Ltd.
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Report Number: LGT26D180HA02

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Date of Test: April 28, 2026 ~ May 18, 2026

Date of Issue: May 18, 2026

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TEST REPORT CERTIFICATION

Applicant: Chengdu Silent Smart Technology Co., Ltd.

Address: 303-7, Floor 3, Building 12, No.38, South Jinke Road, Jinniu Hi-tech Industrial Park, Chengdu, Sichuan, China

Manufacturer: Chengdu Silent Smart Technology Co., Ltd.

Address: 303-7, Floor 3, Building 12, No.38, South Jinke Road, Jinniu Hi-tech Industrial Park, Chengdu, Sichuan, China

Product Name: Wi-Fi Module

Trademark: Silent Smart

Model Number: WS8712, WS8712X, WS8712P, WS8712X-C5, WS8712P-C5, WS8712X-C6, WS8712P-C6, WS8712x

Sample Status: Normal

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC 47 CFR §2.1091 KDB 447498 D01 General RF Exposure Guidance v06	PASS

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Revision History

Rev.	Issue Date	Revisions
00	May 18, 2026	Initial Issue



1. GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF THE EUT

Product Name:	Wi-Fi Module	
Test Model Number:	WS8712	
Series Number:	WS8712X, WS8712P, WS8712X-C5, WS8712P-C5, WS8712X-C6, WS8712P-C6, WS8712x	
Model Difference:	Size difference.	
Frequency Bands:	2.4G WLAN	802.11b/g/n/ax(20MHz): 2412~2462MHz
	5G WLAN	IEEE 802.11a/n(HT20)/ac(VHT20) /ax(HE20): 5.180GHz-5.240GHz
		IEEE 802.11a/n(HT20)/ac(VHT20)/ax(HE20): 5.745GHz-5.825GHz
Rating:	Input: DC 3.3V 500mA	
Hardware Version:	V1.0	
Software Version:	V1.1	

1.2 TEST LABORATORY

Company Name:	Shenzhen LGT Test Service Co., Ltd.
Address:	Room 205, Building 13, Zone B, Zhenxiong Industrial Park, No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan District, Shenzhen, Guangdong, China
Accreditation Certificate:	FCC Registration No.: 746540
	CAB ID: CN0136



2. FCC 47CFR §2.1091 REQUIREMENT

2.1 TEST STANDARDS

The limit for Maximum Permissible Exposure (MPE) specified in FCC 1.1310 is followed. The gain of the antennas used in the product is extracted from the Antenna data sheets provided and also the maximum total power input to the antenna is measured. Through the Friis transmission formula and the maximum gain of the antenna, we can calculate the distance, away from the product, where the limit of MPE is reached.

Although the Friis Transmission formula is far field assumption, the calculated result of that is an over-prediction for near field power density. It is taken as worst case to specify the safety range.

2.2 LIMIT

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environmental impact of the human exposure to radio-frequency (RF) radiation as specified in 1.1307 (b)

Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)
Limits for Occupational / controlled Exposures			
0.3-3.0	614	1.63	*(100)
3.0-30	1842/f	4.89/f	*(900/f ²)
30-300	61.4	0.163	1.0
300 - 1500	--	--	F/300
1500 – 100000	--	--	5.0
Limits for General population / Uncontrolled Exposure			
0.3-1.34	614	1.63	*(100)
1.34-30	824/f	2.19/f	*(180/f ²)
30-300	27.5	0.073	0.2
300 - 1500	--	--	F/1500
1500 – 100000	--	--	1.0

F= Frequency in MHz

* = Plane-wave equivalent power density.

Friss Formula

Friss Transmission Formula: $P_d = (P_{out} * G) / (4 * \pi * r^2)$

Where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

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

If we know the maximum gain of the antenna and the total output power to the antenna, through calculation, we will know MPE value at distance 20cm.



2.3 EUT OPERATION CONDITION

EUT was enabled to transmit and receive at lowest, middle and highest channels.

2.4 CLASSIFICATION

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. Warning statement to the user for keeping at least 20cm or more separation distance from the antenna should be included in the User manual. So, this device is classified as Mobile device.



2.5 TEST RESULT

Turn up Result

Mode	Turn up Power
2.4G WIFI-802.11b	14±1dBm
2.4G WIFI-802.11g	13±1dBm
2.4G WIFI-802.11n(HT20)	13±1dBm
2.4G WIFI-802.11ax(HE20)	13±1dBm
5G WIFI-802.11a	15±2.5dBm
5G WIFI-802.11n(HT20)	14±2.5dBm
5G WIFI-802.11ac(VHT20)	14±2.5dBm
5G WIFI-802.11ax(HE20)	13±2dBm

The MPE result of worst mode:

RF Function	Max Turn up Power (dBm)	Max Turn up Power (mW)	ANT Gain (dBi)	ANT Gain (gain of antenna in linear scale)	Power Density (mW/cm ²)	Limit (mW/cm ²)	Ratio	Result
2.4G WIFI	15.00	31.62	4.23	2.65	0.017	1	0.017	Pass
5G WIFI	17.50	56.23	4.61	2.89	0.032	1	0.032	Pass

Note:

1. The RF Exposure is less than the limit, complies with the exemption requirements.

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