



RF EXPOSURE REPORT

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Applicant	:	Shenzhen SDMC Technology Co., Ltd.	
Address of Applicant		Floor 1, Building 5, Hengtongfa Industrial Zone, Tangtou Industrial Park, Tangtou Community, Shiyan Street, Baoan District, Shenzhen	
Manufacturer	:	Shenzhen SDMC Technology Co., Ltd.	
Address of Manufacturer	Floor 1, Building 5, Hengtongfa Industrial Zone, Tangtou Industrial Park, Tangtou Community, Sh Street, Baoan District, Shenzhen		
Equipment under Test	-	AC1200 Dual Band Wi-Fi Router	
Model No.	: NM1274CB		
FCC ID	/	: 2AW68-NM1274CB	
Test Standard(s)	:	KDB447498 D01 General RF Exposure Guidance v06	
Report No.	•	DDT-RE24091913-1E04	
Issue Date	••	2025/01/16	
Issue By	Guangdong Dongdian Testing Service Co., Ltd. Unit 2, Building 1, No. 17, Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, C 523808		



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Test Report Declare

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Manufacturer : Shenzher		Shenzhen SDMC Technology Co., Ltd.		
Address of Manufacturer :		Floor 1, Building 5, Hengtongfa Industrial Zone, Tangtou Industrial Park, Tangtou Community, Shiyan Street, Baoan District, Shenzhen		

Test Standard Used:

KDB447498 D01 General RF Exposure Guidance v06

We Declare:

The equipment described above is tested by Guangdong Dongdian Testing Service Co., Ltd. and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and Guangdong Dongdian Testing Service Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

Report No.:	DDT-RE24091913-1E04			
Date of Receipt: 20	2024/10/10	Date of Test:	2024/10/10~2025/01/06	

Prepared By:

Approved By:

Damon Hu

Tiger Mo/Engineer

Damon Hu/EMC Manager

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Guangdong Dongdian Testing Service Co., Ltd.

Revision History

Rev.	Revisions	Issue Date	Revised By
	Initial issue ®	2025/01/16	®
	X Or X Or	¥.	1

1. General Test Information

1.1. Description of EUT

EUT Name	:	AC1200 Dual Band Wi-Fi Router		
Model Number	:	NM1274CB		
EUT Function Description	:	Please reference user manual of this device		
Power Supply	:	AC 120V/60Hz		

Note: This EUT support 2.4 GHz WLAN, 5 GHz WLAN.

Note: The above EUT information is declared by manufacturer and for more detailed features description please refer to the manufacturer's specifications or User's Manual. The above Antenna information is declared by manufacturer and for more detailed features description please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

"⊠" means to be chosen or applicable; "□" means don't to be chosen or not applicable; This note applies to entire report.

1.2. Accessories of EUT

Accessories	Manufacturer	Model number	Description
Internet cable	/	/	Length: 1.50m, Unshielded
Adapter	Gansu Pingling Comkey Technology Co., Ltd.	KKD-004	Input: 100-240Vac 50/60Hz Output: 12V =1.0A 12.0W

1.3. Test laboratory

Guangdong Dongdian Testing Service Co., Ltd.

Add.: Unit 2, Building 1, No. 17, Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China, 523808.

Tel.: +86-0769-38826678, http://www.dgddt.com, Email: ddt@dgddt.com.

CNAS Accreditation No. L6451; A2LA Accreditation Number: 3870.01

FCC Designation Number: CN1182, Test Firm Registration Number: 540522

Innovation, Science and Economic Development Canada Site Registration Number: 10288A

Conformity Assessment Body identifier: CN0048

VCCI facility registration number: C-20087, T-20088, R-20123, R-20155, G-20118

2. RF Exposure evaluation for FCC

2.1. Assessment procedure

Requirement:

Systems operating under the provisions of FCC 47 CFR section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as mobile device whereby a distance of 0.2 m normally can be maintained between the user and the device, and below RF Permissible Exposure limit shall comply with.

Limits for General Population/Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic FieldStrength (H)	Power Density (S) (mW/cm ²)	Averaging Time $ E ^2$, $ H ^2$ or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500		1 Contraction	F/1500	30
1500-100000		10%	1.0	30

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

Calculation method

$$E(V/m) = \frac{\sqrt{30 \times P \times G}}{d}$$
 Power Density: $S(mW/cm^2) = \frac{E^2}{377}$

E = Electric field (V/m)

P = Peak RF output power (mW)

G = EUT Antenna numeric gain (numeric)=

d = Separation distance between radiator and human body (m)

The formula can be changed to

We can change the formula to:

$$S = \frac{30 \times P \times G}{377 \times d^2} \text{ or, } d = \sqrt{\frac{30 \times P \times G}{377 \times S}}$$

From the peak EUT RF output power, the minimum mobile separation distance, d=0.2 m, as well as the gain of the used antenna, the RF power density can be obtained.

2.2. Assess result

Mode	Output power (dBm)	Output power (mW)	tune up power (dBm)	tune up power (mW)	Antenna Gain (dBi)	Antenna Gain (linear)	MPE Values (mW/cm ²)	MPE Limit (mW/cm ²)
2.4G WIFI	13.74	23.66	15	31.62	4.50	2.82	0.02	1
5G WIFI	19.74	94.18	20	100	8.19	6.59	0.13	1

2.4G WIFI and 5G WIFI choose the maximum transmission power, the Simultaneous transmit evaluation result: 2.4G WIFI+5G WIFI=0.02+0.13=0.15<1.

Note: The estimation distance is 20 cm

Conclusion: MPE evaluation required since transmitter power is below FCC threshold

