



RF EXPOSURE REPORT

Applicant	:	HUIZHOU MTN WEIYE TECHNOLOGY DEVELOPMENT CO.,LTD.
Address of Applicant	:	Factory 1 and Factory 2, No.1 Huaxing Avenue, Chenjiang Street, Zhongkai Hi-tech Zone, Huizhou
Manufacturer	:	HUIZHOU MTN WEIYE TECHNOLOGY DEVELOPMENT CO.,LTD.
Address of Manufacturer	:	Factory 1 and Factory 2, No.1 Huaxing Avenue, Chenjiang Street, Zhongkai Hi-tech Zone, Huizhou
Equipment under Test	:	Dual-band WiFi6 AX3000 Router
Model No.	:	Flow AX3006
FCC ID	:	2A7EI-AX3006
Test Standard(s)	:	KDB447498 D01 General RF Exposure Guidance v06
Report No.	:	DDT-RE24052212-2E04
Issue Date	:	2024/08/01
Issue By	:	Guangdong Dongdian Testing Service Co., Ltd. Unit 2, Building 1, No. 17, Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China, 523808

REPORT

Table of Contents

1. General Test Information..... 5

1.1. Description of EUT..... 5

1.2. Accessories of EUT 5

1.3. Test laboratory 5

2. RF Exposure evaluation for FCC..... 6

2.1. Assessment procedure 6

2.2. Assess result..... 7

3. Photos of the EUT 8

Test Report Declare

Applicant	:	HUIZHOU MTN WEIYE TECHNOLOGY DEVELOPMENT CO.,LTD.
Address of Applicant	:	Factory 1 and Factory 2, No.1 Huaxing Avenue, Chenjiang Street, Zhongkai Hi-tech Zone, Huizhou
Equipment under Test	:	Dual-band WiFi6 AX3000 Router
Model No.	:	Flow AX3006
Manufacturer	:	HUIZHOU MTN WEIYE TECHNOLOGY DEVELOPMENT CO.,LTD.
Address of Manufacturer	:	Factory 1 and Factory 2, No.1 Huaxing Avenue, Chenjiang Street, Zhongkai Hi-tech Zone, Huizhou

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-RE24052212-2E04		
Date of Receipt:	2024/06/20	Date of Test:	2024/06/20~2024/08/01

Prepared By:

Tiger Mo

Tiger Mo/Engineer

Approved By:

Damon Hu

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	2024/08/01	

1. General Test Information

1.1. Description of EUT

EUT Name	: Dual-band WiFi6 AX3000 Router
Model Number	: Flow AX3006
EUT Function Description	: Please reference user manual of this device
Power Supply	: DC 12V powered by external adapter.

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
AC Power Adapter	XIAMEN CASTEC ELECTRONIC INDUSTRY CO., LTD	MN018Q- L120150	Input: 100-240V~50/60Hz 0.45A Max, Output: DC 12.0V1.5A 12.0W
RJ45 cable	/	/	Length: 1m, Unshielded

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 Field Strength (H) (A/m)	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			F/1500	30
1500-100000			1.0	30

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

Calculation method

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

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:

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

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	18.89	77.45	19	79.43	5.56	3.6	0.0569	1
5G WIFI	20.75	118.85	21	125.89	5.38	3.45	0.0865	1

Simultaneous transmit evaluation result: $2.4\text{GWIFI}+5\text{GWIFI}=0.0569+0.0865=0.1434<1$.

Note1: The estimation distance is 20 cm

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

3. Photos of the EUT

Please refer to DDT-Q24052212-1E appendix I

-----End Report-----