



RF EXPOSURE REPORT

Applicant	:	Globe Electric Company Inc.		
Address of Applicant	••	150 Oneida, Montreal, Quebec, Canada, H9R 1A8		
Manufacturer	••	ZHONGSHAN FANER LIGHTING TECHNOLOGY CO.,LTD		
Address of Manufacturer	:	No. 1, South 3rd Road, Dong an West Road,Haizhou, Guzhen Town, Zhongshan City, Guangdor Province, China		
Equipment under Test		Ceiling Fan With Light		
Model No.	••	37000110, 37000098, 37000119, 37000001		
FCC ID	7	2AQUQGE37110		
Test Standard(s)	•	KDB447498 D01 General RF Exposure Guidance v06		
Report No.	•	DDT-RE24092407-1E03		
Issue Date	:	2024/12/16		
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

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Test Report Declare

Applicant	:	Globe Electric Company Inc.
Address of Applicant	ess of Applicant : 150 Oneida, Montreal, Quebec, Canada, H9R 1A8	
Equipment under Test	:	Ceiling Fan With Light
Model No.	:	37000110
Manufacturer		ZHONGSHAN FANER LIGHTING TECHNOLOGY CO.,LTD
Address of Manufacturer	·	No. 1, South 3rd Road, Dong an West Road, Haizhou, Guzhen Town, Zhongshan City, Guangdong Province, China

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-RE24092407-1E03				
Date of Receipt:	2024/09/25	Date of Test:	2024/09/25~2024/12/16		

Prepared By:

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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	2024/12/16	8
	X Or X Or	¥	1

1. General Test Information

1.1. Description of EUT

EUT Name	:	Ceiling Fan With Light			
Model Number	:	37000110, 37000098, 37000119, 37000001			
Difference of models	All the models are electrical identical including the same hat design (i.e., circuit design, PCB Layout, RF module/circuit, at type(s) and antenna location, components on PCB, etc.,), of Model Number, appearance are different for all the models, therefore the test performed on the model 37000110.				
EUT Function Description	:	Please reference user manual of this device			
Power Supply	:	AC 120V/60Hz			
Antenna Type	: Copper tube antenna				
Max Antenna Gain(dBi)	:	1.08			

Note: This EUT support Bluetooth LE, 2.4 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
/	/	/	1

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) (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		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)
BLE	1.74	1.49	2	1.58	1.08	1.28	0.0004	1
2.4G WIFI	11.13	12.97	12	15.85	1.08	1.28	0.0040	1

Note1: The estimation distance is 20 cm.

Note2: Antenna are not supported simultaneous transmission, no need to evaluate simultaneous transmission.

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

