



RF EXPOSURE REPORT

Applicant	-	Edifier International Limited
Address of Applicant		P.O. Box 6264 General Post Office, Hong Kong
Manufacturer	:	Beijing Edifier Technology Co., Ltd.
Address of Manufacturer	:	815, Floor 8, Shuangqiao Building, No.68, North Fourth Ring West Road, Haidian District, 100080 Beijing, P.R. China
Equipment under Test	••	Multimedia Speaker
Model No.	:	EDF100074
FCC ID		Z9G-EDF252
Test Standard(s)	••	KDB447498 D01 General RF Exposure Guidance v06
Report No.		DDT-RE24052807-1E03
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, C 523808	



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Test Report Declare

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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-RE24052807-1E03		0 E	
Date of Receipt:	2024/06/04	Date of Test:	2024/06/04~2024/07/26	

Prepared By:

Jacky Huang

Jacky Huang/Engineer

Damon Mu

Approved By:

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	8
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1. General Test Information

1.1. Description of EUT

EUT Name	:	Multimedia Speaker	0
Model Number	:	EDF100074	
EUT Function Description	:	Please reference user manual of this device	
Power Supply	:	100-240V~, 50/60Hz, 400mA	
Hardware Version	:	/	
Software Version	:	0	8

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.

1.2. Accessories of EUT

Manufacturer	Model number	Description
/	(Length: 2.50m, Unshielded
/	/	Length: 1.80m, Unshielded
	/	Length: 1.20m, shielded
	/	Length: 1.80m, shielded
	Manufacturer / / / /	ManufacturerModel number////////////

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 Exposu	re
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Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm²)	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		57	F/1500	30	
1500-100000	P	0	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:
$$S(mW/cm^2) = \frac{E^2}{377}$$

- $\mathbf{E} = \text{Electric field (V/m)}$
- 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)	tune up power (dBm)	tune up power (mW)	Antenna Gain (dBi)	Antenna Gain (linear)	MPE Values (mW/cm ²)	MPE Limit (mW/cm ²)
ВТ	10.65	11.50	14.13	-0.29	0.94	0.0026	1
BLE	1.87	2.50	1.78	-0.29	0.94	0.0003	1
BLE	1.87	2.50	1.78	-0.29	0.94	0.0003	

Note: The estimation distance is 20 cm

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

-End Report

3. Photos of the EUT

Please refer to appendix I