

RF EXPOSURE REPORT

FOR

Applicant	:	Edifier International Limited
Address	:	P.O. Box 6264 General Post Office Hong Kong
Equipment under Test	:	Gaming speakers
Model No.	:	G2000
Trade Mark	:	EDIFIER, HECATE
FCC ID	:	Z9G-EDF90
IC	:	10004A-EDF90
Manufacturer	:	Dongguan Edifier Esports Technology Co., Ltd.
Address	:	5th floor, Office Building in the 1st district, No. 2, East Industry Road, Songshan Lake Science & Technology Industrial Park, Dongguan, 523808, CHINA

Issued By: Dongguan Dongdian Testing Service Co., Ltd.

Add: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park, Dongguan City, Guangdong Province, China, 523808

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TEST REPORT DECLARE

Applicant	:	Edifier International Limited
Address	:	P.O. Box 6264 General Post Office Hong Kong
Equipment under Test	:	Gaming speakers
Model No.	:	G2000
Trade mark	:	EDIFIER, HECATE
Manufacturer	:	Dongguan Edifier Esports Technology Co., Ltd.
Address	:	5th floor, Office Building in the 1st district, No. 2, East Industry Road, Songshan Lake Science & Technology Industrial Park, Dongguan, 523808, CHINA

Standard Used: KDB447498 D01 General RF Exposure Guidance v06

We Declare:

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

After evaluation, our opinion is that the equipment In Accordance with above standard.

Report No:	DDT-R19061207-1E2		
Date of Receipt:	Jun. 14, 2019	Date of Test:	Jun. 14, 2019 ~ Jun. 21, 2019

Prepared By:

Ella Gong

Ella Gong/Engineer

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 Dongguan Dongdian Testing Service Co., Ltd.

Revision history

Rev.	Revisions	Issue Date	Revised By
---	Initial issue	Jun. 21, 2019	

1. General information

1.1. Description of Equipment

EUT* Name	: Gaming speakers
Model Number	: G2000
EUT function description	: Please reference user manual of this device
Power supply	: DC 12 V from external AC Adapter
Radio Specification	: Bluetooth V5.0 without BLE
Operation frequency	: 2402MHz-2480MHz
Modulation	: GFSK, $\pi/4$ -DQPSK, 8DPSK
Data rate	: 1 Mbps, 2 Mbps, 3 Mbps
Antenna Type	: Integrated PCB antenna, maximum PK gain: 2.59 dBi
Sample Type	: Series production

1.2. Assess laboratory

Dongguan Dongdian Testing Service Co., Ltd.

Add: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park, Dongguan City, Guangdong Province, China, 523808

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2. RF Exposure evaluation for FCC

According to 447498 D01 General RF Exposure Guidance v06

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where:

$f(\text{GHz})$ is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation

The result is rounded to one decimal place for comparison

Worse case is as below: Power= 1.39 dBm

max. power of channel= 1.38mW

min. test separation distance=5mm

frequency: 2.441GHz

$$(1.38/5) \cdot [\sqrt{2.441(\text{GHz})}] = 0.431 < 3.0 \text{ for 1-g SAR}$$

Then SAR evaluation is not required

END OF REPORT