



## RF EXPOSURE REPORT

|                                |   |   |
|--------------------------------|---|---|
| <b>Applicant</b>               | : | Edifier International Limited   |
| <b>Address of Applicant</b>    | : | P.O. Box 6264 General Post Office, Hong kong  |
| <b>Manufacturer</b>            | : | Beijing Edifier Technology Co., Ltd.  |
| <b>Address of Manufacturer</b> | : | 815, Floor 8, Shuangqiao Building, No.68, North Fourth Ring West Road, Haidian District, 100080 Beijing, P.R. China                                       |
| <b>Equipment under Test</b>    | : | Portable Bluetooth Speaker  |
| <b>Model No.</b>               | : | EDF286009   |
| <b>FCC ID</b>                  | : | Z9G-EDF270  |
| <b>Test Standard(s)</b>        | : | KDB447498 D01 General RF Exposure Guidance v06  |
| <b>Report No.</b>              | : | DDT-RE24102815-1E03   |
| <b>Issue Date</b>              | : | 2024/12/12  |
| <b>Issue By</b>                | : | Guangdong Dongdian Testing Service Co., Ltd.<br>Unit 2, Building 1, No. 17, Zongbu 2nd Road,<br>Songshan Lake Park, Dongguan, Guangdong, China,<br>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.....                  | 6 |

## Test Report Declare

|                                |   |   |
|--------------------------------|---|---|
| <b>Applicant</b>               | : | Edifier International Limited   |
| <b>Address of Applicant</b>    | : | P.O. Box 6264 General Post Office, Hong kong  |
| <b>Equipment under Test</b>    | : | Portable Bluetooth Speaker  |
| <b>Model No.</b>               | : | EDF286009   |
| <b>Manufacturer</b>            | : | Beijing Edifier Technology Co., Ltd.  |
| <b>Address of Manufacturer</b> | : | 815, Floor 8, Shuangqiao Building, No.68, North Fourth Ring West Road, Haidian District, 100080 Beijing, P.R. 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.

|                         |                     |                      |                       |
|-------------------------|---------------------|----------------------|-----------------------|
| <b>Report No.:</b>      | DDT-RE24102815-1E03 |                      |                       |
| <b>Date of Receipt:</b> | 2024/11/21          | <b>Date of Test:</b> | 2024/11/21~2024/12/10 |

**Prepared By:**\_\_\_\_\_  
Jacky Huang/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 Guangdong Dongdian Testing Service Co., Ltd.

## Revision History

| Rev. | Revisions     | Issue Date | Revised By |
|------|---------------|------------|------------|
| ---  | Initial issue | 2024/12/12 |            |
|      |               |            |            |

## 1. General Test Information

### 1.1. Description of EUT

|                            |   |   |
|----------------------------|---|---|
| EUT Name                   | : | Portable Bluetooth Speaker                    |
| Model Number               | : | EDF286009                                     |
| Difference of model number | : | /   |
| EUT Function Description   | : | Please reference user manual of this device   |
| Power Supply               | : | DC 3.7V built-in lithium battery power supply |
| Radio Specification        | : | Bluetooth BR/EDR/LE                           |
| Operation Frequency        | : | 2402 MHz-2480 MHz                             |
| Modulation                 | : | GFSK, $\pi/4$ -DQPSK, 8DPSK                   |
| Antenna Type               | : | PCB antenna                                   |
| Max Antenna Gain (dBi)     | : | 2.59  |

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

| Accessories | Manufacturer | Model number | Description |
|-------------|--------------|--------------|-------------|
| /           | /            | /            | /           |

### 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](mailto: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

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  $\leq$  50 mm are determined by:

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

$f(\text{GHz})$  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

### 2.2. Assess result

#### Manufacturing Tolerance:

| Test Mode |                      | Antenna | Frequency [MHz] | Target (dBm) | Tolerance $\pm$ (dB) |
|-----------|----------------------|---------|-----------------|--------------|----------------------|
| BR/EDR    | GFSK (Peak)          | Ant1    | 2402            | -0.91        | 1                    |
|           |                      |         | 2441            | -0.57        | 1                    |
|           |                      |         | 2480            | -0.48        | 1                    |
|           | $\pi/4$ DQPSK (Peak) | Ant1    | 2402            | 0.05         | 1                    |
|           |                      |         | 2441            | 0.38         | 1                    |
|           |                      |         | 2480            | 0.45         | 1                    |
|           | 8DPSK (Peak)         | Ant1    | 2402            | 0.51         | 1                    |
|           |                      |         | 2441            | 0.82         | 1                    |
|           |                      |         | 2480            | 0.86         | 1                    |
| BLE       | BLE 1M (Peak)        | Ant1    | 2402            | -0.71        | 1                    |
|           |                      |         | 2441            | -0.08        | 1                    |
|           |                      |         | 2480            | -0.28        | 1                    |
|           | BLE 2M (Peak)        | Ant1    | 2404            | -0.53        | 1                    |
|           |                      |         | 2441            | 0.09         | 1                    |
|           |                      |         | 2478            | 0.08         | 1                    |

#### Estimation Result:

Worse case is as below: [2480 MHz, 1.86 dBm, (1.53 mW) output power]

$(1.53/5) \cdot [\sqrt{2.480(\text{GHz})}] = 0.48 < 3.0 \text{ for 1-g SAR}$

Then SAR evaluation is not required.

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