



SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241000372404

Page: 1 of 9

RF EXPOSURE EVALUATION REPORT

| | |
|------------------------------------|---|
| Application No.: | SZCR2410003724AT |
| 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 |
| Factory: | Dongguan Edifier Technology Co., Ltd. |
| Address of Factory: | No.2 Gongyedong Road, Songshan Lake Sci.&Tech. Industry Park, Dongguan, 523808 Guangdong, P.R. China |
| Equipment Under Test (EUT): | |
| EUT Name: | Open-ear True Wireless Earbuds |
| Model No.: | EDF200193, EDF200175 ♣ |
| ♦ | Please refer to section 3.2 of this report which indicates which model was actually tested and which were electrically identical. |
| Trade Mark: | EDIFIER |
| FCC ID: | Z9G-EDF261 |
| Standard(s) : | 47 CFR PART 1, Subpart I, Section 1.1310 47 CFR PART 2, Subpart J, Section 2.1093 KDB447498D01 General RF Exposure Guidance v06 |
| Date of Receipt: | 2024-10-10 |
| Date of Evaluation: | 2024-10-24 to 2024-11-12 |
| Date of Issue: | 2024-11-13 |
| Evaluation Result: | Pass* |

* In the configuration evaluated, the EUT complied with the standards specified above.

Keny Xu

EMC Laboratory Manager



SGS-CSTC Standards Technical Services Co., Ltd.
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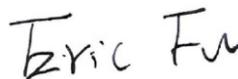
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Revision Record

| Version | Chapter | Date | Modifier | Remark |
|---------|---------|------------|----------|----------|
| 01 | | 2024-11-13 | | Original |
| | | | | |
| | | | | |

Authorized for issue by:

| | | | |
|--|---|--|--|
| |  Bill Chen/Project Engineer | | |
| |  Eric Fu/Reviewer | | |

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3 General Information

3.1 General Description of E.U.T.

| | |
|---------------|---|
| Product Type: | <input checked="" type="checkbox"/> Portable device |
| | <input type="checkbox"/> Mobile device |
| | <input type="checkbox"/> Fixed device |

3.2 Details of E.U.T.

| | |
|-----------------------------|--|
| Power supply: | Lithium Ion Battery: DC 3.85V 70mAh rechargeable battery which charged by charging case for left earbud and right earbud Lithium Ion Battery: DC 3.7V 660mAh rechargeable battery which charged by USB port for charging case |
| Cable(s): | USB cable:30cm unshielded |
| RF cable loss: | 0.4dB |
| For BT: | |
| Operation Frequency: | 2402MHz to 2480MHz |
| Bluetooth Version: | V5.4 Dual mode |
| Modulation Type: | GFSK, pi/4DQPSK |
| Number of Channels: | 79 |
| Channel Spacing: | 1MHz |
| Spectrum Spread Technology: | Frequency Hopping Spread Spectrum(FHSS) |
| Antenna Type: | PIFA |
| Antenna Gain: | Left earbud:-4.29dBi Right earbud:-2.91dBi |
| For BLE: | |
| Operation Frequency: | 2402MHz to 2480MHz |
| Bluetooth Version: | V5.4 Dual mode |
| Modulation Type: | GFSK |
| Number of Channels: | 40 |
| Channel Spacing: | 2MHz |
| Rate data: | 1Mbps and 2Mbps |
| Antenna Type: | PIFA |
| Antenna Gain: | Left earbud:-4.29dBi Right earbud:-2.91dBi |

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.



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Declaration of EUT Family Grouping:

Model No.: EDF200193, EDF200175

Only the model EDF200193 was tested, since according to the declaration from the applicant, the electrical circuit design, components used, internal wiring and functions were identical for all the above models, with only difference on the appearance of the product.

3.3 Separation Distance

Minimum test separation distance: 5mm

Remark: This minimum test separation distance is determined by the smallest distance from the antenna and radiating structures or outer surface of the device, according to the host form factor, exposure conditions and platform requirements, to any part of the body or extremity of a user or bystander.



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3.4 Test Location

All tests were performed at:

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No tests were sub-contracted.

3.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

- **VCCI (Member No. 1937)**

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

- **FCC –Designation Number: CN1336**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

- **Innovation, Science and Economic Development Canada**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

3.6 Deviation from Standards

None

3.7 Abnormalities from Standard Conditions

None



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4 Technical Requirements Specification

4.1 RF Exposure Evaluation

4.1.1 Limit & Test Method

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:

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

- $f(\text{GHz})$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation¹⁷
- The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion

4.1.2 Conclusion

BT Right earbud

The Max. power (including tune-up tolerance) is 5.65 dBm on the highest channel 2.402 GHz (*). 5.65 dBm logarithmic terms convert to numeric result is nearly 3.67 mW

According to the formula. calculate the test exclusion thresholds:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}]$

$$\text{General RF Exposure} = (3.67 \text{ mW} / 5 \text{ mm}) \times \sqrt{2.402 \text{ GHz}} = 1.14 \quad (1)$$

SAR requirement:

$$S = 3.0 \quad (2)$$

$$(1) < (2)$$

So the SAR report is not required.

(*) Max. power refer to Report No.:SZCR241000372402



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BT Left earbud

The Max. power (including tune-up tolerance) is 5.33 dBm on the highest channel 2.402 GHz (*)
5.33 dBm logarithmic terms convert to numeric result is nearly 3.41 mW

According to the formula. calculate the test exclusion thresholds:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}]$

$$\text{General RF Exposure} = (3.41 \text{ mW} / 5 \text{ mm}) \times \sqrt{2.402 \text{ GHz}} = 1.06 \quad (1)$$

SAR requirement:

$$S = 3.0 \quad (2)$$

$$(1) < (2)$$

So the SAR report is not required.

(*) Max. power refer to Report No.:SZCR241000372402

BLE Right earbud

The Max. power (including tune-up tolerance) is 2.86 dBm on the highest channel 2.402 GHz (*)
2.86 dBm logarithmic terms convert to numeric result is nearly 1.93 mW

According to the formula. calculate the test exclusion thresholds:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}]$

$$\text{General RF Exposure} = (1.93 \text{ mW} / 5 \text{ mm}) \times \sqrt{2.402 \text{ GHz}} = 0.60 \quad (1)$$

SAR requirement:

$$S = 3.0 \quad (2)$$

$$(1) < (2)$$

So the SAR report is not required.

(*) Max. power refer to Report No.:SZCR241000372403

BT Left earbud

The Max. power (including tune-up tolerance) is 2.40 dBm on the highest channel 2.402 GHz (*)
2.40 dBm logarithmic terms convert to numeric result is nearly 1.74 mW

According to the formula. calculate the test exclusion thresholds:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}]$

$$\text{General RF Exposure} = (1.74 \text{ mW} / 5 \text{ mm}) \times \sqrt{2.402 \text{ GHz}} = 0.54 \quad (1)$$

SAR requirement:

$$S = 3.0 \quad (2)$$

$$(1) < (2)$$

So the SAR report is not required.

(*) Max. power refer to Report No.:SZCR241000372403

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5 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for SZCR2410003724AT

-End of the Report-



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