

RF Exposure Evaluation Report

Applicant: ZDEER TECHNOLOGY(HENAN) CO.,LTD.

Address of Applicant: East of Wei Wu Road and south of Qin Gong East Road,
Toubao Village Committee, Laotown Town, Changge City,
Xuchang City, Henan Province, P.R. China

Product Name: Bone Conduction Hearing Aid

Model No.: G45160 (More models are listed in Section 2.2)

Brand Name: /

FCC ID: 2BRTX-G45160

Test Standards: KDB 447498 D04 Interim General RF Exposure Guidance v01

Date of Sample Receipt: Feb. 03, 2026

Date of Test: Feb. 04 to Mar. 20, 2026

Date of Report Issue:

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Prepared By:

Shenzhen Acote Technology Co., Ltd.

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Report Revision History

Rev.	Issue Date	Description
V00	Mar. 23, 2026	Initial Release



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1 Laboratory Introduction

1.1 Laboratory Location

Company Name:	Shenzhen Acote Technology Co., Ltd.
Address of Main Laboratory:	Room 719, Excellence Times Building, No. 27, Xinqiao 3rd Road, Xinqiao Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong Province, China.
Address of Satellite Laboratory:	101, F1, building 15, zhongda 365, Xincheng Road No.9, Songshanhu, Dongguan, Guangdong, China.
Website:	www.acotelabs.com
Email:	info@acotelabs.com
Tel.:	+86-0755-2788 9963

1.2 Laboratory Facility

Our company's laboratory facilities have received accreditation, certification, or authorization from the following organizations:

- **FCC - Designation No.: CN1450**
Shenzhen Acote Technology Co., Ltd. has been certified by the FCC (Federal Communications Commission) as a testing laboratory. Test Firm Registration Number: **832670**.
- **A2LA - Accreditation Number: 7697.01**
Shenzhen Acote Technology Co., Ltd. has been accredited by A2LA (American Association for Laboratory Accreditation) in compliance with the internationally recognized standard ISO/IEC 17025:2017, "General Requirements for the Competence of Testing and Calibration Laboratories."

1.3 Announcement

Shenzhen Acote Technology Co., Ltd. tested the equipment in accordance with the requirements set forth in the test standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. All samples tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise.

This document may not be altered or revised in any way unless done so by Shenzhen Acote Technology Co., Ltd. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by Shenzhen Acote Technology Co., Ltd. will constitute fraud and shall nullify the document.

1.4 Disclaimer

For the information or data provided by the client in this report, the relevant results or conclusions of this report are only made for these data or information. The testing laboratory is not responsible for the authenticity and accuracy of these data or information.

2 Equipment Under Test Information

2.1 Application Information

Applicant:	ZDEER TECHNOLOGY(HENAN) CO.,LTD.
Address of Applicant:	East of Wei Wu Road and south of Qin Gong East Road, Toubao Village Committee, Laotown Town, Changge City, Xuchang City, Henan Province, P.R. China
Manufacturer:	ZDEER TECHNOLOGY(HENAN) CO.,LTD.
Address of Manufacturer:	East of Wei Wu Road and south of Qin Gong East Road, Toubao Village Committee, Laotown Town, Changge City, Xuchang City, Henan Province, P.R. China
Factory:	ZDEER TECHNOLOGY(HENAN) CO.,LTD.
Address of Factory:	Building 1, EIC Park, East of Wei Wu Road and south of Qin Gong East Road, Toubao Village Committee, Laotown Town, Changge, Xuchang City, Henan Province, P.R. China

2.2 Product Information

Product Name:	Bone Conduction Hearing Aid
Model No.:	G45160
Models of Product Family:	G41157, G41158, G41159, G41160; G42151, G42152, G42153, G42154, G42155, G42156, G42157, G42158, G42159, G42160; G43151, G43152, G43153, G43154, G43155, G43156; G45151, G45152, G45153, G45154, G45155, G45156, G45157, G45158, G45159; G46151, G46152, G46153, G46154, G46155, G46156, G46157, G46158
Description of Model Differentiation:	The device is a bone conduction wireless headphone designed to transmit audio through bone conduction technology. It integrates wireless communication capability (BT5.2 technology) to connect with external devices such as mobile phones for audio streaming and control functions. There are 38 models in this product family. All models share identical RF design, including same RF chipset, identical RF circuit design, identical PCB layout, same antenna type and antenna location, therefore, all models have identical RF characteristics and compliance performance. The differences between the models are limited to cosmetic appearance and mechanical design, including different housing appearance, different button design or button location, enclosure material (metal or plastic) and different audio processing or performance configurations, these differences do not affect the RF circuitry, antenna design, operating frequency, or RF output power. The model numbers differ only by cosmetic or configuration variations and do not represent differences in RF design.

2.3 EUT Technical Parameters

Operation Frequency:	☒ BT: 2402MHz ~ 2480MHz ☒ BLE: 2402MHz ~ 2480MHz
Modulation Type:	☒ BT: GFSK, $\pi/4$ -DQPSK, 8DPSK ☒ BLE: GFSK
Antenna Type:	Ceramic Antenna
Antenna Gain:	4.75 dBi (declared by applicant)
Power Supply:	Rechargeable Li-ion Battery 3.7Vdc, 230mAh
Test Sample Condition:	The test samples were provided in good working order with no visible defects.



3 Test Information

3.1 Test Methodology

The tests documented in this report were performed in accordance with:

- KDB 447498 D04 Interim General RF Exposure Guidance v01

3.2 Additions to, Deviations, or Exclusions from the Method

None

3.3 Test Mode

TM 1:	Keep the EUT continuously transmitting in BT mode.
TM 2:	Keep the EUT continuously transmitting in BLE mode.

3.4 Worst-case

This RF exposure assessment is based on the maximum EIRP from worst-case testing across all modulation types and data rates.

4 Technical requirements specification

4.1 Limits

SAR-Based Exemption

Evaluation of compliance with the exposure limits in § 1.1310 of this chapter, and preparation of an EA if the limits are exceeded, is necessary for portable devices having single RF sources with more than an available maximum time-averaged power of 1 mW, more than the ERP listed in Table 1 to §1.1307(b)(3)(i)(C), or more than the P_{th} in the following formula, whichever is greater. The following formula shall only be used in conjunction with portable devices not exempt by § 1.1307(b)(3)(i)(C) at distances from 0.5 centimeters to 20 centimeters and frequencies from 0.3 GHz to 6 GHz.

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases} \quad (\text{B. 2})$$

where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right)$$

and f is in GHz, d is the separation distance (cm), and $ERP_{20 \text{ cm}}$ is per Formula (B.1).

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases} \quad (\text{B. 1})$$

4.2 Result

Worse case:

Mode	Freq. (MHz)	Output Power (dBm)	ANT. Gain (dBi)	EIPR (dBm)	EPR (dBm)	ERP (mW)	Distance (cm)	P_{th} (mW)	Verdict
1-DH5	2402	-1.75	4.75	3.00	0.85	1.22	0.5	2.8	Pass
BLE_2M	2402	-1.85	4.75	2.90	0.75	1.19	0.5	2.8	Pass

Remark: ERP = EIRP -2.15 dB

4.3 Conclusion

The device is exempt from the SAR test and satisfies RF exposure evaluation.

----- End of report -----