

RF Exposure Evaluation Report

Product : Bone Conduction Sports Headphone
Trade mark : HUAYIBYTE, 幽音, JUVOX,
LONEVOX
Model/Type reference : HY586, HY587, HY588, HY81C,
HY52, HY32A, HY71P, HY61C,
Z19, HY33
Serial Number : N/A
Report Number : EED32S815782
FCC ID : 2BXRW-HY586
Date of Issue : August 24, 2026
Test Standards : 47 CFR Part 1.1307
47 CFR Part 1.1310
47 CFR Part 2.1093
KDB 447498 D04 Interim General RF
Exposure Guidance v01
Test result : PASS

Prepared for:

HUAYI TECHNOLOGY (SHENZHEN) CO, LTD.
606 of Building 1, Shangzuo Spark, Xinshi Community, Dalang Street,
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2 General Information

2.1 Client Information

Applicant:	HUAYI TECHNOLOGY (SHENZHEN) CO, LTD.
Address of Applicant:	606 of Building 1, Shangzuo Spark, Xinshi Community, Dalang Street, Longhua District, Shenzhen, China
Manufacturer:	DONGGUAN KAIWEI ELECTRONICS CO., LTD.
Address of Manufacturer:	No. 9 of Chunfeng Rd., Longbeiling, Tangxia Town, Dongguan, Guangdong, China
Factory:	DONGGUAN KAIWEI ELECTRONICS CO., LTD.
Address of Factory:	No. 9 of Chunfeng Rd., Longbeiling, Tangxia Town, Dongguan, Guangdong, China

2.2 General Description of EUT

Product Name:	Bone Conduction Sports Headphone
Model No.:	HY586, HY587, HY588, HY81C, HY52, HY32A, HY71P, HY61C, Z19, HY33
Test Model No.:	HY586
Model difference:	They have same electrical, PCB and layout, only the model names and color are different for marketing requirements.
Trade Mark:	HUAYIBYTE, 幽音, JUVOX, LONEVOX

2.3 Product Specification subjective to this standard

Frequency Range:	2402MHz~2480MHz		
Modulation Type:	GFSK, π/4DQPSK, 8DPSK		
Test Power Grade:	Default		
Test Software of EUT:	FCC_assist_1.0.2.2.exe		
Antenna Type:	Chip Antenna		
Antenna Gain:	1.71dBi		
Power Supply:	Battery:	DC 3.8V	
	USB Port:	DC 5V	
Sample Received Date:	Jul. 08, 2026		
Sample tested Date:	Jul. 08, 2026 to Jul. 15, 2026		

2.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax: +86 (0) 755 33683385

No tests were sub-contracted.

FCC Designation No.: CN1164, Test Firm Registration No.: 260439

2.5 Deviation from Standards

None.

2.6 Abnormalities from Standard Conditions

None.

2.7 Other Information Requested by the Customer

None.

3 SAR Evaluation

3.1 RF Exposure Compliance Requirement

3.1.1 Limits

The SAR-based exemption formula of § 1.1307(b)(3)(i)(B), repeated here as Formula (B.2), applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold Pth (mW).

This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive). Pth is given by Formula

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

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 ERP20cm is per Formula (B.1).

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

The 1 mW Blanket Exemption of § 1.1307(b)(3)(i)(A) applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power of no more than 1 mW, regardless of separation distance.

3.1.2 Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

3.1.3 EUT RF Exposure Evaluation**For Stand alone:**

Band	Freq. (MHz)	Estimation distance (cm)	Max. Conducted Output power (dBm)	Antenna Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (mW)	MPE ratio	Result
BT	2441	0.5	2.77	1.71	2.33	1.71	2.752	0.6214	Pass

Note:

- ① EIRP=conducted power+antenna gain;
- ② $ERP=EIRP-2.15$;
- ③ $EIRP(dBm) = \text{Field strength of the fundamental signal}(dBuV/m@3m) - 95.23$;
- ④ $ERP(mW) = 10^{(ERP(dBm)/10)}$;
- ⑤ The estimation distance is 0.5cm;
- ⑥ The test data please refer to the report of EED32S814329 and only the worst case data was recorded in the report.

Statement

1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
2. The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
3. The result(s) shown in this report refer(s) only to the sample(s) tested;
4. Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule stated in ILAC-G8:09/2019/CNAS-GL015:2022;
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*** End of Report ***