

FOR

Dongguan Desheng Industrial Co., Ltd

Wireless Headphones

Test Model: HB02

Additional Model No.: Please Refer to Page 6

Prepared for : Dongguan Desheng Industrial Co., Ltd

Area A5, Shichong Industrial Park, Shipai Town, Dongguan

Address : City,China

Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd.

101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei,

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Date of receipt of test sample : March 20, 2025

Number of tested samples : 2

Sample No. : A250311026-1, A250311026-2

Serial number : Prototype

Date of Test : March 20, 2025 ~ March 26, 2025

Date of Report : March 27, 2025





RF Exposure Evaluation Report Reference No.: LCSA03205122EB Date of Issue.....: March 27, 2025 Testing Laboratory Name: Shenzhen LCS Compliance Testing Laboratory Ltd. 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Address.....:: Shajing Street, Baoan District, Shenzhen, 518000, China Full application of Harmonised standards Testing Location/ Procedure Partial application of Harmonised standards Other standard testing method Applicant's Name.....: Dongguan Desheng Industrial Co., Ltd Area A5, Shichong Industrial Park, Shipai Town, Dongguan Address..... City, China **Test Specification** FCC KDB publication 447498 D01 General RF Exposure Guidance Standard FCC CFR 47 part1 1.1310 FCC CFR 47 part2 2.1093 Test Report Form No.....: TRF-4-E-215 A/0 TRF Originator.....: Shenzhen LCS Compliance Testing Laboratory Ltd. Master TRF.....: Dated 2011-03

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Test Item Description.....: Wireless Headphones

Trade Mark: N/A
Test Model: HB02

Ratings.....: Input: DC 5V

DC 3.7V by Rechargeable Li-ion Battery, 350mAh

Result: Positive

Compiled by:

Supervised by:

Approved by:

Report No.: LCSA03205122EB

Jack Liu/Administrator

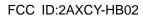
518000. China

Cary Luo/ Technique principal

Gavin Liang/ Manager









RF Exposure Evaluation

Test Report No. : LCSA03205122EB

March 27, 2025

Date of issue

Test : HB02 : Wireless Headphones Applicant.....: : Dongguan Desheng Industrial Co., Ltd Address.....: : Area A5, Shichong Industrial Park, Shipai Town, Dongguan City, China Telephone.....: : / Fax.....:: : / Manufacturer.....: : Dongguan Desheng Industrial Co., Ltd Address..... : Area A5, Shichong Industrial Park, Shipai Town, Dongguan City, China Telephone.....:: : / Fax.....: : / Factory.....: : Dongguan Desheng Industrial Co., Ltd Address...... : Area A5, Shichong Industrial Park, Shipai Town, Dongguan City, China Telephone.....:: : /

Test Result	Positive
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The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.





FCC ID:2AXCY-HB02



Revision History

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Report Version	Issue Date	Revision Content	Revised By		
000	March 27, 2025	Initial Issue	122		

Report No.: LCSA03205122EB









Shenzhen LCS Compliance Testing Laboratory Ltd.

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1. Product Information

Product name	esti	Wireless Headphones	
Test Model	:	HB02	
Additional Model No.	:	HB04,HB06,HB08,HB10,EH02,EH02U,EH02-P,EH06U,EH	
		06-P,EH09U,EH11,R02U,R02-P,R02-W,R03U,R03-P	
Model Declaration	:	PCB board, structure and internal of these model(s) are the	
		same, So no additional models were tested	
Ratings	:	Input: DC 5V	
		DC 3.7V by Rechargeable Li-ion Battery, 350mAh	
Hardware Version	:	1	
Software Version	:	/ 四校测度的	
Bluetooth Frequency Range	:	2402MHz~2480MHz	
Channel Number	:	79 channels for Bluetooth V5.4 (DSS)	
Channel Spacing	:	1MHz for Bluetooth V5.4 (DSS)	
Modulation Type	:	GFSK, π/4-DQPSK, 8-DPSK for Bluetooth V5.4 (DSS)	
Bluetooth Version	:	V5.4	
Antenna Description	:	Internal Antenna, 2.58dBi(Max.)	
Exposure category	:	General population/uncontrolled environment	
EUT Type	:	Production Unit	
Device Type	:	Portable Device	

Note: For a more detailed antenna description, please refer to the antenna specifications or the antenna report provided by the customer.

2. Evaluation method and Limit

According to KDB447498 D01 General RF Exposure Guidance v06 Section 4.3.1 Standalone SAR test exclusion considerations: "Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Test Exclusion Threshold condition, listed below, is satisfied. These test exclusion conditions are based on source-based time-averaged maximum conducted output power of the RF channel requiring evaluation, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions.22 The 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 (see 5) of section 4.1). To qualify for SAR test exclusion, the test separation distances applied must be fully explained and justified by the operating configurations and exposure conditions of the transmitter and applicable host platform requirements, typically in the SAR measurement or SAR analysis report, according to the required published RF exposure KDB procedures. When no other RF exposure testing or reporting is required, a statement of justification and compliance must be included in the equipment approval, in lieu of the SAR report, to qualify for the SAR test exclusion. When required, the device specific conditions described in the other published RF exposure KDB procedures must be satisfied before applying these SAR test exclusion provisions; for example, handheld PTT two-way radios, handsets, laptops & tablets etc."

[(max. power of channel, including tune-up tolerance, mW)/ (min. test separation distance, mm)] .



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 $[\sqrt{f} (GHz)] \le 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where:

- f (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
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

 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 according to f) in section 4.1 is applied to determine SAR test exclusion.

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When one of the following test exclusion conditions is satisfied for all combinations of simultaneous transmission configurations, further equipment approval is not required to incorporate transmitter modules in host devices that operate in the mixed mobile and portable host platform exposure conditions. The grantee is responsible for documenting this according to Class I permissive change requirements. Antennas that qualify for standalone SAR test exclusion must apply the estimated standalone SAR to determine simultaneous transmission test exclusion. a) The $[\sum$ of (the highest measured or estimated SAR for each standalone antenna configuration, adjusted for maximum tune-up tolerance) / 1.6 W/kg] + $[\sum$ of MPE ratios] is \leq 1.0.

b) The SAR to peak location separation ratios of all simultaneously transmitting antenna pairs operating in portable device exposure conditions are all \leq 0.04, and the [\sum of MPE ratios] is \leq 1.0.

3. Refer Evaluation Method

ANSI C95.1–1999: IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.

FCC KDB publication 447498 D01 General RF Exposure Guidance v06: Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies.

FCC CFR 47 part1 1.1310: Radiofrequency radiation exposure limits.

FCC CFR 47 part2 2.1093: Radiofrequency radiation exposure evaluation: portable devices

4. Conducted Power Results

<BT>

Mode	Channel	Frequency (MHz)	Peak Conducted Output Power (dBm)
	0	2402	-0.5
GFSK	39	2441	-0.6
元 4会 测度	78	2480	-1.33
Timesting!	0	2402	1.35
π/4DQPSK	39	2441	1.52
	78	2480	0.43
	0	2402	1.77
8DPSK	39	2441	1.97
	78	2480	0.88



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5. Manufacturing Tolerance

<BT>

	7.05						
GFSK (Peak)							
Channel	Channel 0	Channel 39	Channel 78				
Target (dBm)	0	0	-1.0				
Tolerance ±(dB)	1.0	1.0	1.0				
π/4DQPSK (Peak)							
Channel	Channel 0	Channel 39	Channel 78				
Target (dBm)	1.0	1.0	0				
Tolerance ±(dB)	lerance ±(dB) 1.0		1.0				
8DPSK (Peak)							
Channel	Channel 0	Channel 39	Channel 78				
Target (dBm)	1.0	1.0	0				
Tolerance ±(dB)	1.0	1.0	1.0				

6. Evaluation Results

6.1 Standalone Evaluation

Rand		d/Mode	Frequ ency	Antenna Distance	RF output power		SAR Test Exclusion	SAR Test	
	Dan	a, ividae	(GHz) (mm)		dBm	mW	Threshold	Exclusion	
Dua -		GFSK	2.441	5	1.0	1.2589	0.3934< 3.0	Yes	
B.	Т	π/4DQPSK	2.441	5	2.0	1.5849	0.4952< 3.0	Yes	
		8DPSK	2.441	5	2.0	1.5849	0.4952< 3.0	Yes	

Remark:

- 1. Output power including tune up tolerance;
- 2. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to f) in section
- 4.1 is applied to determine SAR test exclusion.

6.2 Simultaneous Transmission for SAR Exclusion

The sample support one BT modular. No need consider simultaneous transmission.

7. Conclusion

The measurement results comply with the FCC Limit per 47 CFR 2.1093 for the uncontrolled RF Exposure and SAR Exclusion Threshold per KDB 447498 v06.

8. Description of Test Facility

NVLAP Accreditation Code is 600167-0. FCC Designation Number is CN5024.

CAB identifier is CN0071.

CNAS Registration Number is L4595.

Test Firm Registration Number: 254912.



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9. Measurement Uncertainty

Test Item		Frequency Range	Uncertainty	Note
Output power	:	1GHz-40GHz	±0.57dB	(1)

^{(1).} This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

 THE END OF REPORT	



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