

Report No.: GZCR210802076603

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FCC ID: PVB-EMJH134A

## RF EXPOSURE EVALUATION REPORT

Application No.: GZCR2108020766AT
Applicant: The House of Marley.LLC

Address of Applicant: 3000 Pontiac Trail, Commerce Township, Michigan 48390 United States

Manufacturer: The House of Marley.LLC

Address of Manufacturer: 3000 Pontiac Trail, Commerce Township, Michigan 48390 United States

Factory: Cosonic Intelligent Technologies Co.,Ltd.

Address of Factory: Room 506 building 1, No.6, South Industrial Road, Songshan Lake High-

tech Industrial Development Zone, Dongguan City, Guangdong, P.R.China

523808

**Equipment Under Test (EUT):** 

**EUT Name:** Positive Vibration 2 Wireless Headphone

Model No.: EM-JH133A, EM-JH134A ♣

Please refer to section 2 of this report which indicates which item was

actually evaluated and which were electrically identical.

Trade Mark: Marley

Standard(s): 47 CFR Part 1.1307

KDB447498 D01 General RF Exposure Guidance v06

 Date of Receipt:
 2021-08-17

 Date of Evaluation:
 2021-09-22

 Date of Issue:
 2021-11-22

Evaluation Result: Pass\*

Kobe Jian EMC Laboratory Manager



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<sup>\*</sup> In the configuration evaluated, the EUT complied with the standards specified above.



EMC-TRF-03 Rev 1.0

## SGS-CSTC Standards Technical Services Co., Ltd. **Guangzhou Branch**

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Revision Record						
Version	Chapter	Date	Modifier	Remark		
01		2021-11-22		Original		

Authorized for issue by:			
	Kevin zhang		
	Kevin Zhang/Project Engineer	_	
	Riday Liu		
		_	
	Ricky Liu/Reviewer		



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#### **Evaluation Summary** 2

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.

♣ Model No.: EM-JH133A, EM-JH134A Only the model EM-JH133A was tested.

According to the declaration from the applicant, the electrical circuit design, PCB layout, components used and internal wiring were identical for all models, with only difference on the model name.



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#### 4 **General Information**

#### 4.1 Details of E.U.T.

Power supply: DC 3 V powered by built-in battery as below for normal working:

Model: VDL 403030

Rated: DC3.7V, 360mAh, 1.332Wh

DC 5 V for charging

Cable(s): USB charging ports

AUX in ports

Operation Frequency: 2402MHz to 2480MHz Modulation Type: GFSK, pi/4DQPSK, 8DPSK

Number of Channels: 79 Channel Spacing: 1MHz

Spectrum Spread

Frequency Hopping Spread Spectrum(FHSS) Technology:

Antenna Type: Integral Antenna

Antenna Gain: 0 dBi declared by applicant

Firmware Version: SV01

Hardware Version: CH6272B-1 MAIN V1.2

**Testing Software:** FCC\_Test\_Tools\_V2.22\_20190918

Sample NO.: GZ SP 20210847748 M1 Power Setting: 0 can not be changed by user

Function: Positive Vibration 2 Wireless Headphone with BT function

### 4.2 Evaluating Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory, 198 Kezhu Road, Scientech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663

Tel: +86 20 82155555 Fax: +86 20 82075059

No tests were sub-contracted.



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#### 4.3 Facility

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

#### NVLAP (Lab Code: 200611-0)

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

#### ACMA

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/New Zealand Regulatory Compliance Mark (RCM).

#### • SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

#### CNAS (Lab Code: L0167)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2018 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2017 General Requirements) for the Competence of Testing Laboratories.

#### FCC Recognized Accredited Test Firm(Registration No.: 486818)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818.

#### • ISED (Registration No.: 4620B, CAB identifier: CN0052)

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

#### VCCI (Registration No.: R-12460, C-12584, G-20107 and T-11179)

The 10m Semi-anechoic chamber, 966 Anechoic Chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-20107 and T-11179 respectively.

#### • CBTL (Lab Code: TL129)

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.

#### 4.4 Deviation from Standards

None

#### 4.5 Abnormalities from Standard Conditions

None



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### 5 Technical Requirements Specification

#### 5.1 RF Exposure Evaluation

#### 5.1.1 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:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]  $\cdot [\sqrt{f(GHz)}] \le 3.0$  for 1-g SAR and  $\le 7.5$  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<sup>17</sup>
- The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is  $\leq$  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

#### 5.1.2 Conclusion

The Max Conducted Peak Output Power is -7.56 dBm on the highest channel 2.480 GHz -7.56 dBm logarithmic terms convert to numeric result is nearly 0.18 mW

According to the formula. calculate the test exclusion thresholds:

[(max. power of channel, including tune-up tolerance, mW)/

(min. test separation distance, mm)] · [√f(GHz)]

General RF Exposure =  $(0.18 \text{ mW} / 5 \text{ mm}) \text{ x} \sqrt{2.480 \text{ GHz}} = 0.055$  (1)

SAR requirement:

S = 3.0 (2)

(1) < (2)

So the SAR report is not required.

Note: Refer to report No. GZCR210802076602 for EUT test Max Conducted Peak Output Power value.



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#### **EUT Constructional Details (EUT Photos)** 6

Refer to Appendix - External and Internal Photos for GZCR2108020766AT

- End of the Report -



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