

EMC-TRF-03 Rev 1.1 Report No.: GZCR240800093403

> Page: 1 of 8 FCC ID: PVB-EMJE104

RF EXPOSURE EVALUATION REPORT

Application No.: GZCR2408000934AT 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

GuangZhou U&I Technology Company Limited Factory:

Address of Factory: Buliding 1, Mingsheng Industrial Park, South 2nd Road, Shibei Avenue,

Dashi Town, Panyu District, Guangzhou, Guangdong, China

Product Name: Liberate Model No.: EM-JE104 Trade Mark: Marley

KDB 447498 D01 V06 Standard(s):

Date of Receipt: 2024-08-07 2024-08-26 Date of Evaluation: 2024-09-23 Date of Issue:

Evaluation Result: Pass*

Uday Liu Ricky Liu Manager



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



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Date	Remark
2024-09-23	Original
	2024-09-23

Authorized for issue by:			
	Pank Fenny		
	Pank Feng/Project Engineer	-	
	vius cui		
	Vico Cui/Reviewer	-	



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Evaluation Summary 2

Item	Standard	Method	Requirement	Result
RF Exposure	KDB 447498 D01 V06	KDB 447498 D01 V06	KDB 447498 D01 V06	Pass

Note:

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.

EUT Family Grouping:

Product Name	Model Name		Colour and appearance		
Liberate	EM-JE104	SB	CE		



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General Information

4.1 Details of E.U.T.

Power supply: Powered by built-in battery as below for normal working:

Model: 80138

Rated: DC 3.7 V, 0.222Wh

Charged by charging case with built-in battery as below:

Model: 503035

Rated: DC 3.7 V, 1.85Wh, 500mAh

Cable(s): USB cable:0.4m unshielded 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 Gain: Left earbud: -2.94 dBi; right earbud: -3.86 dBi

Antenna Type: Integral antenna

Antenna number: 2(one antenna on each ear)

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.

4.2 Evaluating Location

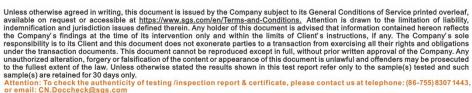
All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,

No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663

Tel: +86 20 82155555

No tests were sub-contracted.



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4.3 Facility

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

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.

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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Technical Requirements Specification

5.1 General Description of Applied Standards

KDB447498D01 General RF Exposure Guidance v06

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 Exclusion Threshold condition, listed below, is satisfied.

5.2 RF Exposure Evaluation

5.2.1 Limit & Test Method

KDB447498D01 General RF Exposure Guidance v06

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)] · $[\sqrt{f(GHz)}] \le 3.0$ 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 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

5.2.2 Conclusion

For both earbuds:

The Maximum Conducted Peak Output Power is				-3.49	dBm in char	nnel	2.441	GHz;
-3.49	dBm logarithmic terms convert to numeric result is nearly 0.448					mW		
[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · [√f(GHz)]								
General RF	Exposure = (0.448	mW / 5 mm) x √	2.441	GHz =	0.140	①;
				SAR require	ment:	S =	3.0	②;
∵ ① < ②.	∴ the SAR	report is not	required.					

Note: Refer to report No. GZCR240800093402 for EUT test Max Conducted Peak Output Power value.

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EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for GZCR2408000934AT

- End of the Report -



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