

EMC-TRF-03 Rev 1.1

Report No.: GZCR240400043303 Page: 1 of 8 FCC ID: 2AZYT-SP0000101-02

# **RF EXPOSURE EVALUATION REPORT**

Application No.:	GZCR2404000433LM
Applicant:	DongGuan JiaSheng Lighting Technology Co., Ltd.
Address of Applicant:	HUMEN TOWN SHUTIAN VILLAGE DONGGUAN GUANGDONG 523636 CHINA
Manufacturer:	DongGuan JiaSheng Lighting Technology Co., Ltd.
Address of Manufacturer:	HUMEN TOWN SHUTIAN VILLAGE DONGGUAN GUANGDONG 523636 CHINA
Factory:	DongGuan JiaSheng Lighting Technology Co., Ltd.
Address of Factory:	HUMEN TOWN SHUTIAN VILLAGE DONGGUAN GUANGDONG 523636 CHINA
Product Name:	LED Lantern Speaker S2
Model No.:	SP0000101-02
Standard(s) :	KDB447498 D01 General RF Exposure Guidance v06
Date of Receipt:	2024-04-26
Date of Evaluation:	2024-05-30 to 2024-05-30
Date of Issue:	2024-09-24
Evaluation Result:	Pass*

\* In the configuration evaluated, the EUT complied with the standards specified above.

2) day Lin

**Ricky Liu** Manager



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Revision Record					
Version	Report No.	Date	Remark		
01 GZCR240400043303		2024-09-24	Original		

Authorized for issue by:		
	Luke Lin	
	Luke Lin/Project Engineer	
	vius cui	
	Vico Cui/Reviewer	



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#### **Evaluation Summary** 2

ltem	Standard	Method	Requirement	Result
RF Exposure	KDB447498 D01 General RF Exposure Guidance v06	KDB447498 D01 General RF Exposure Guidance v06	KDB447498 D01 General RF Exposure Guidance 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.



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#### **General Information** 4

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

Power supply:	Test voltage:					
	AC 120 V, 60 Hz for charging powered by AC/DC adapter refer to section 4.2.					
	Powered by built-in Li-ion battery as below for normal working:					
	DC 5 V for charging					
	Rated: 3.7V 5200mAh					
Cable(s):	USB Type-C Port for charging.					
Operation Frequency:	2402MHz to 2480MHz					
Modulation Type:	GFSK, pi/4DQPSK					
Number of Channels:	79					
Channel Spacing:	1MHz					
Spectrum Spread Technology:	Frequency Hopping Spread Spectrum(FHSS)					
Antenna Type:	PCB Antenna					
Antenna Gain:	-0.58 dBi					
Antenna Number:	1					
Remark: The information	in this section is provided by the applicant or manufacturer. SGS is not liable					

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

#### **RF Exposure Evaluation** 5.1

## 5.1.1 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  $\leq$  50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] ·  $\left[\sqrt{f(GHz)}\right] \le 3.0$  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

Normal use condition for Distance < 5mm between antenna and body:

For Bluetooth Classic.

The Maxim	um Conducted	d Peak Outp	out Power is	0.04	dBm in cha	nnel	2.480	GHz;	
0.04	dBm logarithmic terms convert to numeric result is nearly 1.009						mW		
[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] $\cdot [\sqrt{f(GHz)}]$									
General RF Exposure =		1.009	mW / 5 mm	) x √	2.480	GHz =	0.318	0	;
				SAR requirement:		S =	3.0	0	;
00 <0.	the SAR r	eport is not	required.						

Note: Refer to report No. GZCR240400043302 for EUT test Max Conducted Peak Output Power value.



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

Refer to External and Internal Photos for GZCR2404000433LM

- End of the Report -



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