



## RF EXPOSURE REPORT

<b>Applicant</b>	:	Dong Guan Jia Sheng Lighting Technology Co. Ltd.
<b>Address of Applicant</b>	:	HUMEN TOWN, SHUTIAN VILLAGE, DONGGUAN, GUANGDONG
<b>Manufacturer</b>	:	Dong Guan Jia Sheng Lighting Technology Co. Ltd.
<b>Address of Manufacturer</b>	:	HUMEN TOWN, SHUTIAN VILLAGE, DONGGUAN, GUANGDONG
<b>Equipment under Test</b>	:	LED LanternSpeaker ULTIMA
<b>Model No.</b>	:	SP0000113-01
<b>FCC ID</b>	:	2AZYT-SP0000113-01
<b>Test Standard(s)</b>	:	KDB447498 D01 General RF Exposure Guidance v06
<b>Report No.</b>	:	DDT-RE24112815-1E02
<b>Issue Date</b>	:	2024/12/14
<b>Issue By</b>	:	Guangdong Dongdian Testing Service Co., Ltd. Unit 2, Building 1, No. 17, Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China, 523808

# REPORT

Table of Contents

1. General Test Information..... 5

1.1. Description of EUT..... 5

1.2. Accessories of EUT ..... 5

1.3. Test laboratory ..... 5

2. RF Exposure evaluation for FCC..... 6

2.1. Assessment procedure ..... 6

2.2. Assess result..... 6

## Test Report Declare

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**Test Standard Used:**

KDB447498 D01 General RF Exposure Guidance v06

**We Declare:**

The equipment described above is tested by Guangdong Dongdian Testing Service Co., Ltd. and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and Guangdong Dongdian Testing Service Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

<b>Report No.:</b>	DDT-RE24112815-1E02		
<b>Date of Receipt:</b>	2024/11/29	<b>Date of Test:</b>	2024/11/29~2024/12/13

**Prepared By:***Jacky Huang***Jacky Huang/Engineer****Approved By:***Damon Hu***Damon Hu/EMC Manager**

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Guangdong Dongdian Testing Service Co., Ltd.

Revision History

Rev.	Revisions	Issue Date	Revised By
---	Initial issue	2024/12/14	

## 1. General Test Information

### 1.1. Description of EUT

EUT Name	: LED LanternSpeaker ULTIMA
Model Number	: SP0000113-01
Difference of model number	: /
EUT Function Description	: Please reference user manual of this device
Power Supply	: DC 5V/2A from USB type-C port or DC 3.7V from Li-ion battery
Hardware Version	: /
Software Version	: /
Antenna Type	: PCB antenna
Max Antenna Gain (dBi)	: -0.58
Radio Specification	: Bluetooth BR/EDR
Operation Frequency	: 2402 MHz-2480 MHz
Modulation	: GFSK, $\pi/4$ DQPSK

Note: The above EUT information is declared by manufacturer and for more detailed features description please refer to the manufacturer's specifications or User's Manual. The above Antenna information is declared by manufacturer and for more detailed features description please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

### 1.2. Accessories of EUT

Accessories	Manufacturer	Model number	Description
/	/	/	/

### 1.3. Test laboratory

Guangdong Dongdian Testing Service Co., Ltd.

Add.: Unit 2, Building 1, No. 17, Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China, 523808.

Tel.: +86-0769-38826678, <http://www.dgddt.com>, Email: [ddt@dgddt.com](mailto:ddt@dgddt.com).

CNAS Accreditation No. L6451; A2LA Accreditation Number: 3870.01

FCC Designation Number: CN1182, Test Firm Registration Number: 540522

Innovation, Science and Economic Development Canada Site Registration Number: 10288A

Conformity Assessment Body identifier: CN0048

VCCI facility registration number: C-20087, T-20088, R-20123, R-20155, G-20118

## 2. RF Exposure evaluation for FCC

### 2.1. Assessment procedure

According to 447498 D01 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:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR, where:

$f(\text{GHz})$  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

### 2.2. Assess result

**Manufacturing Tolerance:**

Test Mode		Antenna	Frequency [MHz]	Target (dBm)	Tolerance $\pm$ (dB)
BR/EDR	GFSK (Peak)	Ant1	2402	-1.93	1
			2441	-2.39	1
			2480	-3.21	1
	$\pi/4$ DQPSK (Peak)	Ant1	2402	-1.51	1
			2441	-1.88	1
			2480	-2.66	1

#### Estimation Result:

Worse case is as below: [2402 MHz, -0.51 dBm, (0.89 mW) output power]

$(0.89/5) \cdot [\sqrt{2.402(\text{GHz})}] = 0.28 < 3.0$  for 1-g SAR

Then SAR evaluation is not required.

-----End Report-----