

# RF EXPOSURE REPORT

## FOR

<b>Applicant</b>	:	JL Audio, Inc.
<b>Address</b>	:	10369 N Commerce Parkway Miramar, FL 33025
<b>Equipment under Test</b>	:	RM15 BLE MESH HAND-HELD REMOTE Control
<b>Model No.</b>	:	154217
<b>Trade Mark</b>	:	JL Audio
<b>FCC ID</b>	:	2AD9E-154217
<b>Manufacturer</b>	:	Rayrun Technology Co., Ltd.
<b>Address</b>	:	5th Floor, Building 2, Haitian Lanyu Industrial Park, Shilong Community, Shiyan Street, Baoan District, Shenzhen, China

**Issued By: Dongguan Dongdian Testing Service Co., Ltd.**

**Add.:** No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park,  
Dongguan City, Guangdong Province, China, 523808

**Tel.:** +86-0769-38826678, **E-mail:** ddt@dgddt.com, <http://www.dgddt.com>

## Table of Contents

Test report declares.....	3
1. General Information.....	5
1.1. Description of equipment.....	5
1.2. Assess laboratory .....	5
2. RF Exposure evaluation for FCC .....	6

## Test Report Declare

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**Standard Used:** KDB447498 D01 General RF Exposure Guidance v06

**We Declare:**

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

**After evaluation, our opinion is that the equipment In Accordance with above standard.**

<b>Report No:</b>	DDT-R22122811-5E02		
<b>Date of Receipt:</b>	Feb. 14, 2023	<b>Date of Test:</b>	Feb. 14, 2023 ~ May 22, 2023

**Prepared By:**

*Tiger Mo*

**Tiger Mo/Engineer**

**Approved By:**



**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 Dongguan Dongdian Testing Service Co., Ltd.

## Revision History

Rev.	Revisions	Issue Date	Revised By
---	Initial issue	May 22, 2023	

## 1. General Information

### 1.1. Description of equipment

EUT Name	: RM15 BLE MESH HAND-HELD REMOTE Control
Model Number	: 154217
EUT Function Description	: Please reference user manual of this device
Power Supply	: DC 3V power by Button cell
Radio Specification	: Bluetooth V5.0
Operation Frequency	: 2402 MHz - 2480 MHz
Modulation	: GFSK
Data Rate	: 1 Mbps
Antenna Gain	: PCB Antenna, maximum PK gain: -3.91 dBi
Sample Number	: S22122811-05 for conductive S22122811-06 for radiation

Note: EUT is the abbreviation of equipment under test.

### 1.2. Assess laboratory

Dongguan Dongdian Testing Service Co., Ltd.

Add.: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park, Dongguan City, Guangdong Province, 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

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

### Manufacturing Tolerance

#### BLE

GFSK 1M (Peak)			
Channel	Channel 0	Channel 39	Channel 78
Target (dBm)	-18.87	-19.33	-19.78
Tolerance $\pm$ (dB)	1	1	1

#### Estimtion Result

Worse case is as below: [2402 MHz, -18.87 dBm, (0.013 mW) output power]

$(0.013/5) \cdot [\sqrt{2.402(\text{GHz})}] = 0.004 < 3.0$  for 1-g SAR

Then SAR evaluation is not required.

### END OF REPORT