



# RF EXPOSURE REPORT

Applicant	Qingdao Yeelink Information Technology Co., Ltd.
Address	F10-B4, Bldg.B, International Innovation Park, 1# Keyuanweiyi Rd., Laoshan, Qingdao, Shandong, P.R.China.

Manufacturer or Supplier	Qingdao Yeelink Information Technology Co., Ltd.
Address	F10-B4, Bldg.B, International Innovation Park, 1# Keyuanweiyi Rd., Laoshan, Qingdao, Shandong, P.R.China.
Product	Smart LED Bulb M2 (Multicolor)
Brand Name	YEELIGHT
Model	YLDP001-A
Additional Model & Model Difference	N/A
Date of tests	Sep. 07, 2020 ~ Sep. 19, 2020

- FCC Part 2 (Section 2.1091)
- KDB 447498 D01
- IEEE C95.1

**CONCLUSION: The submitted sample was found to COMPLY with the test requirement**

Tested by Lucas Chen  
Project Engineer / EMC Department

Approved by Glyn He  
Assistant Manager / EMC Department

Date: Oct. 21, 2020

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Test Report No.: FM2008WDG0332

## RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FM2008WDG0332	Original release	Oct. 21, 2020

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## 1. CERTIFICATION

<b>FCC ID:</b>	2ABEU-YLDP001-A
<b>PRODUCT:</b>	Smart LED Bulb M2 (Multicolor)
<b>BRAND NAME:</b>	YEELIGHT
<b>MODEL NO.:</b>	YLDP001-A
<b>ADDITIONAL NO.:</b>	N/A
<b>APPLICANT:</b>	Qingdao Yeelink Information Technology Co., Ltd.
<b>STANDARDS:</b>	FCC Part 2 (Section 2.1091)
	KDB 447498 D01
	IEEE C95.1



## 2. RF EXPOSURE LIMIT

### LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

FREQUENCY RANGE (MHz)	ELECTRIC FIELD STRENGTH (V/m)	MAGNETIC FIELD STRENGTH (A/m)	POWER DENSITY (mW/cm <sup>2</sup> )	AVERAGE TIME (minutes)
<b>LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE</b>				
300-1500	...	...	F/1500	30
1500-100,000	...	...	1.0	30

F = Frequency in MHz

## 3. MPE CALCULATION FORMULA

$$Pd = (Pout * G) / (4 * pi * r^2)$$

where

Pd = power density in mW/cm<sup>2</sup>

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

## 4. CLASSIFICATION

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as **Mobile Device**.



## 5. ANTENNA GAIN

The antennas provided to the EUT, please refer to the following table:

Transmitter Circuit	Peak Gain (dBi)	Antenna Type
Chain 0	2.0	PCB Antenna

## 6. CALCULATION RESULT OF MAXIMUM CONDUCTED AV POWER

The tuned conducted Average Power (declared by client)

Mode	Frequency (MHz)	Target Power (dBm)	Tolerance (dBm)	Lower Tolerance (dBm)	Upper Tolerance (dBm)
BT-LE	2402-2480	5	+1	4	6

The measured conducted Average Power

Mode	Frequency (MHz)	Averaged Power (dBm)
BT-LE	2480	5.62

FREQUENCY BAND (MHz)	MAX AVERAGE POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm <sup>2</sup> )	LIMIT (mW/cm <sup>2</sup> )
2402-2480	6	2.0	20	0.001255	1.0

--- END ---