

	MPE Test Report					
Report No.:	AAOG-ESH-P24061125B-2					
FCC ID:	2ABEU-YDD383940					
Product:	Yeelight RGBIC LED Basic Strip Light					
Model:	YLYDD-0038, YLYDD-0039, YLYDD-0040					
Received Date:	Jun.17, 2024					
Test Date:	Jun.17 to Jul.12, 2024					
Issued Date:	Jul.16, 2024					
Applicant:	Qingdao Yeelink Information Technology Co., Ltd.					
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Manufacturer:	Qingdao Yeelink Information Technology Co., Ltd.					
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Issued By:	BUREAU VERITAS ADT (Shanghai) Corporation					
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FCC Registration / Designation Number:	176467/ CN1213					
	Test Lab Cert 2343.01					
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correctness of the report contents.



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Release Control Record

Issue No.	Description	Date Issued	
AAOG-ESH-P24061125B-2	Original release	Jul.16, 2024	



1 Certificate of Co	nformity							
Product: Yeelight RGBIC LED Basic Strip Light								
Brand: YEELIGHT								
Model:	YLYDD-0038, YLYDD-0039, YLYDD-00	40						
Applicant: Qingdao Yeelink Information Technology Co., Ltd.								
Test Date:	Jun.17 to Jul.12, 2024	Jun.17 to Jul.12, 2024						
Standards: FCC Part 2 (Section 2.1091) KDB 447498 D01 General RF Exposure Guidance v06 IEEE C95.1-2019								
compliance with the re Test (EUT) configurat	t has been tested by BUREAU VERIT , equirement of the above standards. The t ions represented herein are true and a teristics under the conditions specified in	test ccu	record, data rate accoun	evaluation & Equipment Under				
Prepared by :	Jan . Zhou Yan ZHOU	,	Date:	Jul.16, 2024				
Approved by :	Project Engineer Consol Martine Sear YU RF Supervisor	3	Date:	Jul.16, 2024				



2 General Information

2.1 General Description of EUT

BLE:

Product	Yeelight RGBIC LED Basic Strip Light			
Brand	YEELIGHT			
Test Model	YLYDD-0038, YLYDD-0039, YLYDD-0040			
Model Difference	-			
Power Rating	DC 24V 0.5/0.75/1A, Powered by adaptor			
Modulation Type	GFSK			
Modulation Technology	Bluetooth Low Energy 4.2			
Operating Frequency	2402MHz ~ 2480MHz			
Number of Channel	40			
Antenna Type	PCB Antenna			
Antenna Connector				
Antenna Gain	1.96dBi			

Note:

1. For more details, please refer to the User's manual of the EUT.

2.2 Description of Support Unit

DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.
Adaptor for YLYDD-0038	Guangdong Tiantongjiuhe Technology Co., Ltd	TJ01501L2400500US	NA
Adaptor for YLYDD-0039	Guangdong Tiantongjiuhe Technology Co., Ltd	TJ02402W2400750US	NA
Adaptor for YLYDD-0040	Guangdong Tiantongjiuhe Technology Co., Ltd	TJ02402W2401000US	NA



3 RF Exposure

3.1 Limits For Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)			Average Time (minutes)		
Limits For General Population / Uncontrolled Exposure						
300-1,500	-	-	F/1500	30		
1,500-100,000	-	-	1.0	30		

F = Frequency in MHz

3.2 MPE Calculation Formula

Power density (S) is calculated according to the formula:

 $S = PG / (4\pi R^2)$

Where $S = power density in mW/cm^2$

P = transmit power in mW

G = numeric gain of transmit antenna (numeric gain=Log-1(dB antenna gain/10))

R = distance (cm)

3.3 MPE Calculation Formula

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

3.4 Calculation Result of Maximum Permissible Exposure

Frequency Band (MHz)	Max. Conducted output power(dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)			
BLE 4.2								
2402-2480	-2.46	1.96	20	0.00018	1			

Conclusion:

The calculation result of MPE is less than the limit.

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