

Qingdao Yeelink Information Technology Co., Ltd.

MPE ASSESSMENT REPORT

Report Type:

FCC MPE assessment report

Model:

YLCT03YL

REPORT NUMBER:

210300972SHA-002

ISSUE DATE:

April 6, 2021

DOCUMENT CONTROL NUMBER:

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TEST REPORT

Applicant: Qingdao Yeelink Information Technology Co., Ltd.
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Weiyi Road, Laoshan District, Qingdao City, Shandong Province, P.R.China

Manufacturer: Qingdao Yeelink Information Technology Co., Ltd.
10F-B4, Building B, Qingdao International Innovation Park, No.1 Keyuan
Weiyi Road, Laoshan District, Qingdao City, Shandong Province, P.R.China

Manufacturing site: Guangdong Changhong Component Technology Co.,Ltd.
No.2-1, Tongji West Road, Nantou Town, Zhongshan City, Guangdong
Province, China.

Product Name: Yeelight Staria Bedside Lamp Pro

Type/Model: YLCT03YL

FCC ID: 2ABEU-YLCT03YL

SUMMARY:

The equipment complies with the requirements according to the following standard(s) or Specification:

FCC PART 1 SECTION 1.1310

PREPARED BY:

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REVIEWED BY:

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Reviewer
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Revision History

Report No.	Version	Description	Issued Date
210300972SHA-002	Rev. 01	Initial issue of report	April 6, 2021

TEST REPORT**Measurement result summary**

TEST ITEM	FCC REFERENCE	TEST RESULT	NOTE
RF Exposure	1.1310	Pass	-

Notes: 1: NA =Not Applicable

2. Determination of the test conclusion is based on IEC Guide 115 in consideration of measurement uncertainty.

1 GENERAL INFORMATION

1.1 Description of Equipment Under Test (EUT)

Product name:	Yeelight Staria Bedside Lamp Pro
Type/Model:	YLCT03YL
Description of EUT:	The EUT is a wireless lighting equipment which have wireless charger function, the WIFI module was certified (FCC ID: 2AC7Z-ESPWROOM32D).
Rating:	DC 12V 1.5A by adaptor
Category of EUT:	Class B
EUT type:	<input checked="" type="checkbox"/> Table top <input type="checkbox"/> Floor standing
Software Version:	/
Hardware Version:	/
Sample received date:	Feb 20, 2021
Date of test:	Feb 20, 2021 ~ Mar 26, 2021

1.2 Technical Specification

Frequency Range:	110kHz – 205kHz
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1.3 Description of Test Facility

Name:	Intertek Testing Services Shanghai
Address:	Building 86, No. 1198 Qinzhou Road(North), Shanghai 200233, P.R. China
Telephone:	86 21 61278200
Telefax:	86 21 54262353

The test facility is recognized, certified, or accredited by these organizations:	CNAS Accreditation Lab Registration No. CNAS L0139
	FCC Accredited Lab Designation Number: CN1175
	IC Registration Lab CAB identifier.: CN0051
	VCCI Registration Lab Registration No.: R-14243, G-10845, C-14723, T-12252
	A2LA Accreditation Lab Certificate Number: 3309.02

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2 TEST SPECIFICATIONS

2.1 Standards or specification

FCC PART 1 SECTION 1.1310
KDB 680106 D01 RF Exposure Wireless Charging App v03r01

2.2 Mode of operation during the test

Within this test report, EUT was tested with empty load, half load and full load, the full load is the worst case and we listed the results in the report.

2.3 Test peripherals list

Item No.	Name	Band and Model	Description
1	wireless load	Provided by client	100% power level
2	wireless load	Provided by client	50% power level
3	wireless load	Provided by client	0% power level

2.4 Record of climatic conditions

Test Item	Temperature (°C)	Relative Humidity (%)	Pressure (kPa)
RF Exposure	23	57	102

2.5 Instrument list

Used	Equipment	Manufacturer	Type	Internal no.	Due date
<input checked="" type="checkbox"/>	Exposure Level Tester	Narda	ELT-400	EC 2928	2021-08-15
<input checked="" type="checkbox"/>	Field sensor & Field meter	AR	FL17000	EC 5818-1	2021-05-21

3 RF Exposure Assessment

Test result: Pass

3.1 Assessment Limit

Reference: 47 CFR §1.1310, KDB 680106

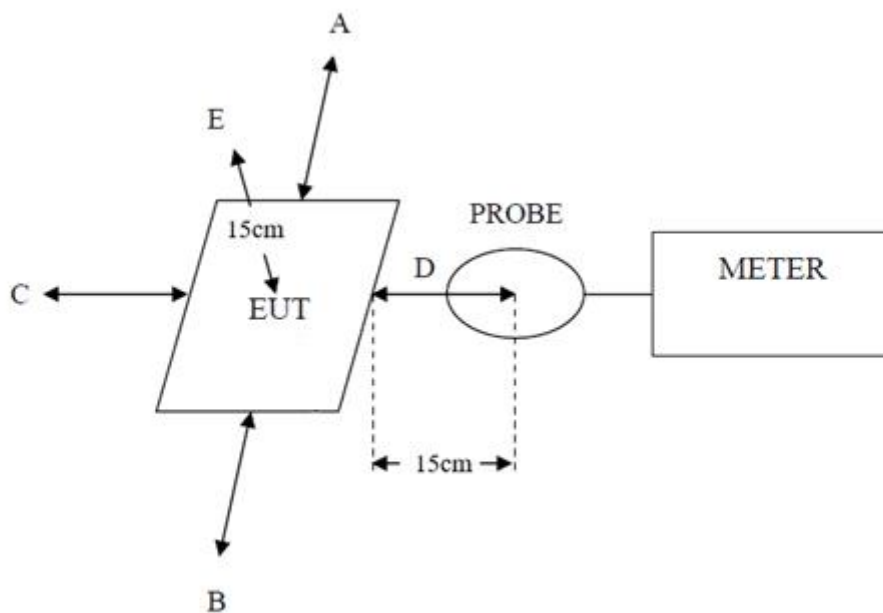
Limits for General Population/Uncontrolled Exposure

Frequency range [MHz]	Electric field strength [V/m]	Magnetic field strength [A/m]	Power density [mW/cm ²]	Averaging time [minutes]
0.1 – 0.3	614	1.63	*100	30
0.3 – 1.34	614	1.63	*100	30
1.34 – 30	824/f	2.19/f	*180/f ²	30
30 – 300	27.5	0.073	0.2	30
300 – 1 500	-	-	f/1500	30
1 500 – 100 000	-	-	1.0	30

Limits for Occupational/Controlled Exposure

Frequency range [MHz]	Electric field strength [V/m]	Magnetic field strength [A/m]	Power density [mW/cm ²]	Averaging time [minutes]
0.1 – 0.3	614	1.63	*100	6
0.3 – 3.0	614	1.63	*100	6
3.0 – 30	1842/f	4.89/f	*900/f ²	6
30 – 300	61.4	0.163	1.0	6
300 – 1 500	-	-	f/300	6
1 500 – 100 000	-	-	5	6

3.2 Assessment Configuration



3.3 Assessment Results

Test result of Magnetic Field Strength:

Test Position	Test distance (cm)	Test result (A/m)	Limit (A/m)	Result (Pass/Fail)
A: Right	15	0.066	1.63 *0.5	Pass
B: Left	15	0.067	1.63 *0.5	Pass
C: Front	15	0.069	1.63 *0.5	Pass
D: Back	15	0.067	1.63 *0.5	Pass
E: Top	15	0.068	1.63 *0.5	Pass

Test result of Electric Field Strength:

Test Position	Test distance (cm)	Test result (V/m)	Limit (V/m)	Result (Pass/Fail)
A: Right	15	2.25	614 *0.5	Pass
B: Left	15	2.25	614 *0.5	Pass
C: Front	15	2.34	614 *0.5	Pass
D: Back	15	2.23	614 *0.5	Pass
E: Top	15	2.25	614 *0.5	Pass

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Considerations of compliance 680106 D01 RF Exposure Wireless Charging App v03r01 clause 5b:

(1) Power transfer frequency is less than 1 MHz.

Answer: Yes, the operation frequency is 110-205 kHz.

(2) Output power from each primary coil is less than or equal to 15 watts.

Answer: Yes, the maximum output power of primary coil is 13Watts.

(3) The transfer system includes only single primary and secondary coils. This includes charging systems that may have multiple primary coils and clients that are able to detect and allow coupling only between individual pairs of coils.

Answer: The transfer system includes only single primary coils to detect and allow coupling only between individual pairs of coils.

(4) Client device is placed directly in contact with the transmitter.

Answer: Yes, client device is placed directly in contact with the transmitter.

(5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).

Answer: Yes, mobile exposure conditions only.

(6) The aggregate H-field strengths at 15 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.

Answer: Yes, the test result for H and E-field strength less than 50% of the MPE limit.

***** END *****