



FCC Test Report

FCC ID : 2AWCB-KT-T03AWU
Product : Smart Multi-color Table Lamp
Trade mark : N/A
Model Name : KT-T03AWU
Applicant : SHENZHENSHI KAIXIN GUANGDIAN CO.,LTD
Date of Issue : Aug 27, 2020
Report No : DGE200805007D03

Prepared for

SHENZHENSHI KAIXIN GUANGDIAN CO.,LTD
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Prepared by

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TEST RESULT CERTIFICATION

Applicant's name.....: SHENZHENSHI KAIXIN GUANGDIAN CO.,LTD
Address.....: Software Building, No. 9 GaoxinZhong Yi Road, High-Tech Park, Nanshan district, Shenzhen China
Manufacturer's Name.....: SHENZHENSHI KAIXIN GUANGDIAN CO.,LTD
Address.....: Software Building, No. 9 GaoxinZhong Yi Road, High-Tech Park, Nanshan district, Shenzhen China
Factory.....: SHENZHENSHI KAIXIN GUANGDIAN CO.,LTD
Address.....: Software Building, No. 9 GaoxinZhong Yi Road, High-Tech Park, Nanshan district, Shenzhen China

Product description

Product name.....: Smart Multi-color Table Lamp
Main Model: KT-T03AWU
Series Model.....: KT-T03AW,KT-T03EWU,KT-T03EW,KT-T03A
Difference Description.....: The RF circuit principle and internal structure are the same, only Key panel appearance colors different.
Rating(s).....: Input: AC100-240V 50/60HZ or DC 12V 3.0A

Date of Test.....:

Date (s) of performance of tests.....: Aug 5, 2020 to Aug 27, 2020

Date of Issue.....: Aug 27, 2020

Test Result.....: **Pass**

Testing Engineer : Eder Zhan
(Eder Zhan)

Technical Manager : Jason Chen
(Jason Chen)

Authorized Signatory : Sam Chen
(Sam Chen)

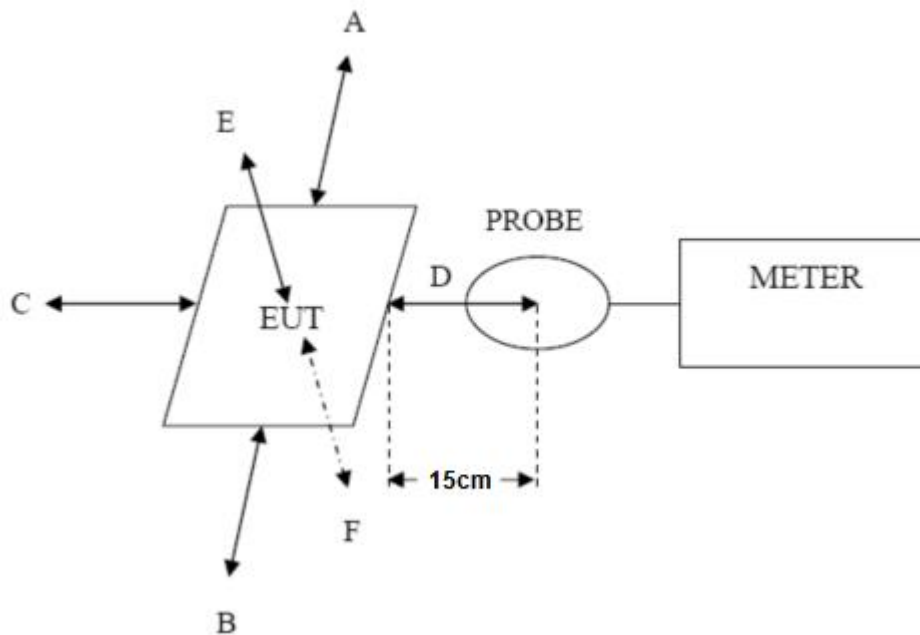
1.Measuring Standard

FCC Part 1(1.1310) and Part 2(2.1091)

1.1 Test configuration

1. The field strength of both E-field and H-field was measured at 15cm using the equipment list above for determining compliance with the MPE requirements of FCC Part 1.1310.
2. The RF power density was measured at Under maximum load test
3. Maximum E-field and H-field measurements were made 15cm from each side of the EUT. Along the side of the EUT and still 15cm away from the edge of the EUT, the field probes were positioned at the location where there is maximum field strength. The maximum E-field and H-field is reported below.
4. This device uses a wireless charging circuit for power transfer operating at the frequency of 110 –205kHz. Thus, the 300kHz limits were used: E-field Limit = 614 (V/m); H-field limit = 1.63 (A/m).

1.2 Test Setup



2. Limits

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposure				
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
(B) Limits for General Population/Uncontrolled Exposure				
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

f = frequency in MHz * = Plane-wave equivalent power density

3. MEASURING DEVICE AND TEST EQUIPMENT

For MPE Measurement

E-Field Probe(100kHz-3GHz)	Narda	EF0391	Q15221	May 15, 2021	1 Year
H-Field Probe(300KHz-30MHz)	Narda	HF3061	Q15835	May 16, 2021	1 Year
Broadband Field Meter	Narda	NBM-550	Q20145 5	May 16, 2021	1 Year
Adapter	N/A	SAW30-120-2500U	N/A	N/A	N/A
Load	N/A	N/A	N/A	N/A	N/A

4. Measuring Results

Table 1: E-Field Strength at 15 cm from the edges surrounding the EUT and 20cm from the top surface of the EUT

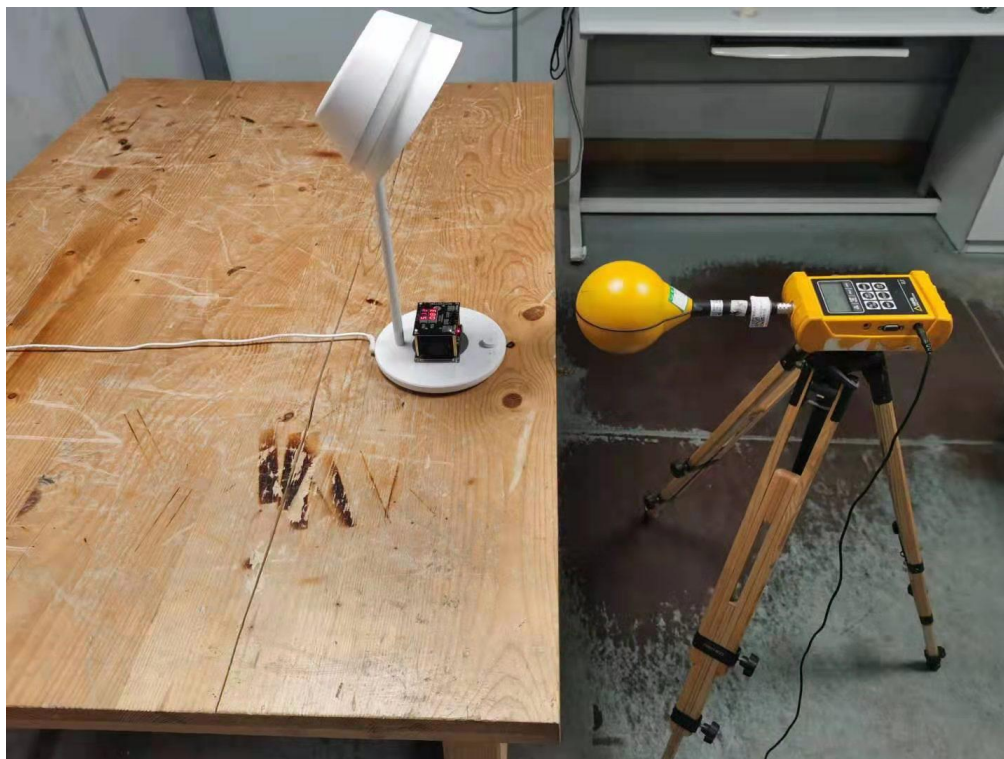
EUT Test Mode	Measured E-Field Strength Values (V/m)					50% Limit (V/m)	Limit (V/m)
	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E		
1% Battery Level	0.75	0.69	0.64	0.70	0.65	307	614
50% Battery Level	0.68	0.76	0.65	0.69	0.72	307	614
99% Battery Level	0.74	0.65	0.69	0.62	0.73	307	614

Table 2: H-Field Strength at 15 cm from the edges surrounding the EUT and 20cm from the top surface of the EUT

EUT Test Mode	Measured H-Field Strength Values (A/m)					50% Limit (A/m)	Limit (A/m)
	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E		
1% Battery Level	0.437	0.456	0.442	0.436	0.452	0.815	1.63
50% Battery Level	0.443	0.460	0.455	0.437	0.438	0.815	1.63
99% Battery Level	0.453	0.476	0.443	0.460	0.449	0.815	1.63

Remark:

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.

5.TEST SETUP

***** End of Report*****