



FCC Test Report

Report No.: ACHJ-19JU1631LTSHPB-2

FCC ID: 2AUXM-MSSLA19

Product: SMART WIFI BULB

Test Model: MS-A19-9.5W-RGBCW

Received Date: Jun.17, 2019

Test Date: Jun.20 to Jul.02, 2019

Issued Date: Dec.12, 2019

Applicant: Haining Mingshuai Technology Lighting Co.,Ltd

Address: Building 1, No.327 Chuangye Road, Chang'an Town, Haining City, Jiaxing, China

Manufacturer: Haining Mingshuai Technology Lighting Co.,Ltd

Address: Building 1, No.327 Chuangye Road, Chang'an Town, Haining City, Jiaxing, China

Issued By: BUREAU VERITAS ADT (Shanghai) Corporation

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Release Control Record

Issue No.	Description	Date Issued
ACHJ-19JU1631LTSHPB-2	Original release	Dec.12, 2019

1 Certificate of Conformity

Product: SMART WIFI BULB

Brand: --

Test Model: MS-A19-9.5W-RGBCW

Serial Model: Refer to model list

Applicant: Haining Mingshuai Technology Lighting Co.,Ltd

Test Date: Jun.20 to Jul.02, 2019

Standards: FCC Part 2 (Section 2.1091)

KDB 447498 D01 General RF Exposure Guidance v06

IEEE C95.1-1992

The above equipment has been tested by **BUREAU VERITAS ADT (Shanghai) Corporation**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

Prepared by :



, **Date:**

Dec.12, 2019

Will Yan

Project Engineer

Approved by :



, **Date:**

Dec.12, 2019

Daniel Sun

RF Supervisor

2 Model List

Main Model No	Serial Model No	Difference1	Difference2
MS-A19-9.5W-RGBCW	MS-A19-7W-RGBCW MS-A19-5W-RGBCW	9.5W is all same as 7W and 5W except	RGBCW is all same as RGBW except RGBCW has more LEDs(cold colour temperature) in same LED PWB and has more components in same driver PWB
MS-A19-9.5W-RGBW	MS-A19-7W-RGBW MS-A19-5W-RGBW	for different LED quantity in same LED PWB and	
MS-A19-9.5W-CW	MS-A19-7W-CW MS-A19-5W-CW	different component ratings in same driver PWB (The driver difference, please refer to BOM)	CW is all same as W except CW has more LEDs(cold colour temperature) in same LED PWB and has more components in same driver PWB

3 RF Exposure

3.1 Limits For Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	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/cm²

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 Tune-up Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
WLAN 2.4GHz					
2412-2462	12.56	2.5	20	0.0063819	1

Conclusion: Pass

The calculation result of MPE is less than the limit.

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