

TEST REPORT

Product Name : Keilton LED controller
Brand Mark : Keilton
Model No. : CS107S
FCC ID : 2A26YCS107S
Report Number : BLA-EMC-202211-A8503
Date of Sample Receipt : 2022/11/30
Date of Test : 2022/12/4 to 2022/12/14
Date of Issue : 2022/12/15
Product Name : Keilton LED controller
Test Standard : 47 CFR Part 15, Part1.1307
47 CFR Part 15, Part2.1093
KDB447498 D01 General RF Exposure Guidance v06
Test Result : Pass

Prepared for:

Shenzhen LiteTrace Technologies Co., Ltd
F5, Bld 1, Hongtu Industry Park, Hezhou, Hangcheng, Baoan District,
Shenzhen China

Prepared by:

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Date:

2022/12/15



REPORT REVISE RECORD

Version No.	Date	Description
00	2022/12/15	Original

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1 TEST SUMMARY

Test item	Test Requirement	Test Method	Class/Severity	Result
RF Exposure	47 CFR Part 1.1307, Part 2.1093, KDB 447498	CFR 47 Part 2.1093	CFR 47 Part 2.1093	PASS

2 GENERAL INFORMATION

Applicant	Shenzhen LiteTrace Technologies Co., Ltd
Address	F5, Bld 1, Hongtu Industry Park, Hezhou, Hangcheng, Baoan District, Shenzhen China
Manufacturer	Shenzhen LiteTrace Technologies Co., Ltd
Address	F5, Bld 1, Hongtu Industry Park, Hezhou, Hangcheng, Baoan District, Shenzhen China
Factory	N/A
Address	N/A
Product Name	Keilton LED controller
Test Model No.	CS107S

3 GENERAL DESCRIPTION OF E.U.T.

Hardware Version	1.0
Software Version	1.0
Operation Frequency:	2402MHz-2480MHz
Modulation Type:	GFSK
Data Rate	1Mbps; 2Mbps
Channel Spacing:	2MHz
Number of Channels:	40
Antenna Type:	PCB Antenna
Antenna Gain:	2dBi(Provided by the customer)

4 LABORATORY LOCATION

All tests were performed at:

BlueAsia of Technical Services(Shenzhen) Co., Ltd.

Building C, No. 107, Shihuan Road, Shiyan Sub-District, Baoan District, Shenzhen, Guangdong Province, China

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No tests were sub-contracted.

5 RF EXPOSURE COMPLIANCE REQUIREMENT

SAR evaluation

MPE Calculation Method

$$E \text{ (V/m)} = (30 \cdot P \cdot G)^{0.5} / d$$

$$\text{Power Density: } P_d \text{ (W/m}^2\text{)} = E^2 / 377$$

E = Electric Field (V/m)

P = Peak RF output Power (W)

G = EUT Antenna numeric gain (numeric)

d = Separation distance between radiator and human body (m)

The formula can be changed to

$$P_d = (30 \cdot P \cdot G) / (377 \cdot d^2)$$

From the peak EUT RF output power, the minimum mobile separation distance, $d=0.2\text{m}$, as well as the gain of the used antenna, the RF power density can be obtained.

Directional Antenna Gain (Numeric)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
1.585 (2dBi)	0.8980mW (-0.467dBm)	0.00028	1	Complies

----END OF REPORT----

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