

TEST REPORT

Product Name : Keilton LED controller
Brand Mark : Keilton
Model No. : WP1013S
FCC ID : 2A26YWP1013S
Report Number : BLA-EMC-202211-A8203
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
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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 | 305 Suite C, 3151 Shahe West Street Jianxing Technology Plaza Nanshan, Shenzhen, China |
| Factory | N/A |
| Address | N/A |
| Product Name | Keilton LED controller |
| Test Model No. | WP1013S |

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,
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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=0.2m, 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 |
|------------------------------------|---------------------------|---|--|-------------|
| 1.585mW (2dBi) | 0.8959mW (-0.477dBm) | 0.00028 | 1 | Complies |

-----END OF REPORT-----

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of BlueAsia, this report can't be reproduced except in full.