

# FCC TEST REPORT

Report No.....: AB26070076FW02

FCC ID.....: 2BW4A-AL-T01

Applicant.....: Shenzhen Xishi Information Technology Co., Ltd.

Address.....: Room 2095B, 1st Floor Fortune Building, 88 Fuhua 3rd Road,  
Futian District, Shenzhen China

Manufacturer.....: Foshan Juxingde Trading Co., Ltd.

Address.....: Room 403-404, 4/F, Bldg 4# New Materials Industrial Park No. 2  
Zhongjin Road, Lishui Town Nanhai District, Foshan, Guangdong  
528244 China

Product Name.....: Automotive Ambient Lighting

Trade Mark.....: AUVEX

Test Model.....: AL-T01

Additional Model(s).....: AL-T02, AL-F01, AL-F02, AL-F03, AL-C01, AL-C02, AL-R01,  
AL-T03, AL-G01, AL-T04, AL-J01

Standard.....: FCC Part 2 (Section 2.1091)  
KDB 447498 D01  
IEEE C95.1

Date of Receipt.....: 2026.07.07

Date of Issue.....: 2026.07.14

Test Result.....: Pass

Compiled by: Huaijie Li  
(Printed Name + Signature)

*Huaijie Li*

Supervised by: David Huang  
(Printed Name + Signature)

*David Huang*

Approved by: Jay Liu  
(Printed Name + Signature)

*Jay Liu*

Testing Laboratory Name.....: Aibo Standard Technology (Shenzhen) Co., Ltd.

Address.....: 101, Building B, Tuori New Energy Industrial Park, High-tech Park,  
Tianliao Community, Yutang Street, Guangming District, Shenzhen  
City, Guangdong Province, China

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## FCC TEST REPORT

|                          |                                                                                                                                             |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| EUT.....                 | : Automotive Ambient Lighting                                                                                                               |
| Test Model.....          | : AL-T01                                                                                                                                    |
| <b>Applicant.....</b>    | <b>: Shenzhen Xishi Information Technology Co., Ltd.</b>                                                                                    |
| Address.....             | : Room 2095B, 1st Floor Fortune Building, 88 Fuhua 3rd Road, Futian District, Shenzhen China                                                |
| <b>Manufacturer.....</b> | <b>: Foshan Juxingde Trading Co., Ltd.</b>                                                                                                  |
| Address.....             | : Room 403-404, 4/F, Bldg 4# New Materials Industrial Park No. 2 Zhongjin Road, Lishui Town Nanhai District, Foshan, Guangdong 528244 China |

|                    |                 |
|--------------------|-----------------|
| <b>Test Result</b> | <b>Positive</b> |
|--------------------|-----------------|

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

## REPORT VERSION

| Version No. | Issue Date | Description   |
|-------------|------------|---------------|
| 01          | 2026.07.14 | Initial Issue |

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## 1. GENERAL INFORMATION

### 1.1. GENERAL DESCRIPTION OF EUT

|                                                      |                                                                                        |
|------------------------------------------------------|----------------------------------------------------------------------------------------|
| Product Name:                                        | Automotive Ambient Lighting                                                            |
| Trade Mark:                                          | AUVEX                                                                                  |
| Test Model:                                          | AL-T01                                                                                 |
| Additional Model(s):                                 | AL-T02, AL-F01, AL-F02, AL-F03, AL-C01, AL-C02, AL-R01, AL-T03, AL-G01, AL-T04, AL-J01 |
| Model Difference:                                    | All models are the same circuit and RF module, except the model name                   |
| Hardware Version:                                    | /                                                                                      |
| Software Version:                                    | /                                                                                      |
| Power Supply:                                        | DC 12V                                                                                 |
| EUT Supports Function:<br>(Provided by the customer) | 2.4GHz ISM Bands                                                                       |
| Test Sample(s) Number:                               | AB26070076-01 (Engineer Sample)<br>AB26070076-02 (Normal Sample)                       |
| <b>Radio Specification Subject to this Report</b>    |                                                                                        |
| Bluetooth Version:                                   | Bluetooth LE                                                                           |
| Frequency Range:                                     | 2402MHz~2480MHz                                                                        |
| Modulation Type:                                     | GFSK                                                                                   |
| Channel Spacing:                                     | 2MHz                                                                                   |
| Channel Number(s):                                   | 40                                                                                     |
| Antenna Type:                                        | Internal Antenna                                                                       |
| Antenna Gain:                                        | -0.58dBi                                                                               |

## 1.2. DESCRIPTION OF TEST FACILITY

**Test Lab:** Aibo Standard Technology (Shenzhen) Co., Ltd.

**Address:** 101, Building B, Tuori New Energy Industrial Park, High-tech Park, Tianliao Community, Yutang Street, Guangming District, Shenzhen City, Guangdong Province, China

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E-mail: aibo@aibonorm.com

Website: www.aibonorm.com

The test facility is recognized, certified, or accredited by the following organizations:

**A2LA-Lab Certificate No.: 7514.01**

Aibo Standard Technology (Shenzhen) Co., Ltd. has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

**FCC Accredited Lab.**

Designation Number: CN1411

Test Firm Registration Number: 567066

**ISED Wireless Device Testing Laboratories**

Company Number: 33924

CAB identifier: CN0185

## 2. RF EXPOSURE EVALUATION

### 2.1 Limit

The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

Limits for Maximum Permissible Exposure (MPE)

| Frequency range<br>(MHz)                                | Electric field<br>strength<br>(V/m) | Magnetic field strength<br>(A/m) | Power density<br>(mW/cm <sup>2</sup> ) | Averaging time<br>(minutes) |
|---------------------------------------------------------|-------------------------------------|----------------------------------|----------------------------------------|-----------------------------|
| (A) Limits for Occupational/Controlled Exposures        |                                     |                                  |                                        |                             |
| 0.3-3.0                                                 | 614                                 | 1.63                             | *(100)                                 | 6                           |
| 3.0-30                                                  | 1842/f                              | 4.89/f                           | *(900/f <sup>2</sup> )                 | 6                           |
| 30-300                                                  | 61.4                                | 0.163                            | 1.0                                    | 6                           |
| 300-1500                                                |                                     |                                  | f/300                                  | 6                           |
| 1500-100,000                                            |                                     |                                  | 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 <sup>2</sup> )                 | 30                          |
| 30-300                                                  | 27.5                                | 0.073                            | 0.2                                    | 30                          |
| 300-1500                                                |                                     |                                  | f/1500                                 | 30                          |
| 1500-100,000                                            |                                     |                                  | 1.0                                    | 30                          |

f = frequency in MHz

Friis transmission formula:  $P_d = (P_{out} * G) / (4 * \pi * r^2)$

Where

$P_d$  = power density in mW/cm<sup>2</sup>,  $P_{out}$  = output power to antenna in mW;

$G$  = gain of antenna in linear scale,  $\pi = 3.1416$ ;

$R$  = distance between observation point and center of the radiator in cm

$P_d$  is the limit of MPE, 1 mW/cm<sup>2</sup>. If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance  $r$  where the MPE limit is reached.

Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

## 2.2 Evaluation Result

| Mode | Total Power<br>(dBm) | Antenna Gain | Max.EIRP<br>(dBm) | Max.EIRP<br>(mW) | Power Density<br>at R=20cm<br>(mW/cm <sup>2</sup> ) | Limit<br>(mW/cm <sup>2</sup> ) | Result |
|------|----------------------|--------------|-------------------|------------------|-----------------------------------------------------|--------------------------------|--------|
| BLE  | 0.61                 | -0.58        | 0.03              | 1.007            | 0.000200                                            | 1.0                            | PASS   |

So a SAR test is not required

\*\*\*\*\*THE END\*\*\*\*\*