

RF Exposure Evaluation  
For  
SHENZHEN DAYBETTER OPTO-ELECTRONICS CO.,LTD  
Strip light

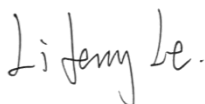
Test Model: D32133-30A

Additional Model No.: Please Refer to Page 6

|                                |   |                                                                                     |
|--------------------------------|---|-------------------------------------------------------------------------------------|
| Prepared for                   | : | SHENZHEN DAYBETTER OPTO-ELECTRONICS CO.,LTD                                         |
| Address                        | : | 4F,BUILDING 2, ANTUOSHAN HI-TECH PARK BAOAN DISTRICT<br>SHENZHEN 518000 China       |
| Prepared by                    | : | Guangzhou LCS Compliance Testing Laboratory Ltd.                                    |
| Address                        | : | No.44-1, Qianfeng North Road, Shiqi, Panyu District, Guangzhou,<br>Guangdong, China |
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| Web                            | : | www.LCS-cert.com                                                                    |
| Mail                           | : | webmaster@LCS-cert.com                                                              |
| Date of receipt of test sample | : | September 16, 2025                                                                  |
| Number of tested samples       | : | 2                                                                                   |
| Sample number                  | : | C250904020-1, C250904020-2                                                          |
| Serial number                  | : | Prototype                                                                           |
| Date of Test                   | : | September 16, 2025 ~ September 23, 2025                                             |
| Date of Report                 | : | September 25, 2025                                                                  |

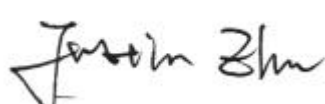
| RF Exposure Evaluation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Report Reference No.</b> .....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>LCSC09045025EB</b>                                                                                                                                                                                          |
| <b>Date of Issue</b> .....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | September 25, 2025                                                                                                                                                                                             |
| <b>Testing Laboratory Name</b> .....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Guangzhou LCS Compliance Testing Laboratory Ltd.</b>                                                                                                                                                        |
| <b>Address</b> .....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | No.44-1, Qianfeng North Road, Shiqi, Panyu District, Guangzhou, Guangdong, China                                                                                                                               |
| <b>Testing Location/ Procedure</b> .....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Full application of Harmonised standards <input checked="" type="checkbox"/><br>Partial application of Harmonised standards <input type="checkbox"/><br>Other standard testing method <input type="checkbox"/> |
| <b>Applicant's Name</b> .....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>SHENZHEN DAYBETTER OPTO-ELECTRONICS CO.,LTD</b>                                                                                                                                                             |
| <b>Address</b> .....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 4F,BUILDING 2, ANTUOSHAN HI-TECH PARK BAOAN DISTRICT SHENZHEN 518000 China                                                                                                                                     |
| <b>Test Specification</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                |
| <b>Standard</b> .....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | FCC KDB publication 447498 D01 General 1 RF Exposure Guidance v06<br>FCC CFR 47 part1 1.1310<br>FCC CFR 47 part2 2.1091                                                                                        |
| <b>Test Report Form No</b> .....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | TRF-4-E-214 A/0                                                                                                                                                                                                |
| <b>TRF Originator</b> .....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Guangzhou LCS Compliance Testing Laboratory Ltd.                                                                                                                                                               |
| <b>Master TRF</b> .....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Dated 2011-03                                                                                                                                                                                                  |
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| <b>EUT Description</b> .....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>Strip light</b>                                                                                                                                                                                             |
| <b>Trade Mark</b> .....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | N/A                                                                                                                                                                                                            |
| <b>Test Model</b> .....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | D32133-30A                                                                                                                                                                                                     |
| <b>Ratings</b> .....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Please Refer to Page 6                                                                                                                                                                                         |
| <b>Result</b> .....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>Pass</b>                                                                                                                                                                                                    |

Compiled by:



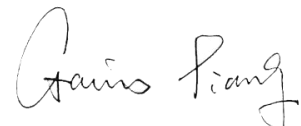
Lifeng Le/ Administrator

Supervised by:



Justin Zhu/ Technique principal

Approved by:



Gavin Liang/ Manager

## RF Exposure Evaluation

|                          |                       |                                            |
|--------------------------|-----------------------|--------------------------------------------|
| <b>Test Report No. :</b> | <b>LCSC09045025EB</b> | <u>September 25, 2025</u><br>Date of issue |
|--------------------------|-----------------------|--------------------------------------------|

|                          |                                                                                 |
|--------------------------|---------------------------------------------------------------------------------|
| EUT.....                 | : Strip light                                                                   |
| Test Model.....          | : D32133-30A                                                                    |
| <b>Applicant.....</b>    | <b>: SHENZHEN DAYBETTER OPTO-ELECTRONICS CO.,LTD</b>                            |
| Address.....             | : 4F,BUILDING 2, ANTUOSHAN HI-TECH PARK BAOAN DISTRICT<br>SHENZHEN 518000 China |
| Telephone.....           | : /                                                                             |
| Fax.....                 | : /                                                                             |
| <b>Manufacturer.....</b> | <b>: SHENZHEN DAYBETTER OPTO-ELECTRONICS CO.,LTD</b>                            |
| Address.....             | : 4F,BUILDING 2, ANTUOSHAN HI-TECH PARK BAOAN DISTRICT<br>SHENZHEN 518000 China |
| Telephone.....           | : /                                                                             |
| Fax.....                 | : /                                                                             |
| <b>Factory.....</b>      | <b>: SHENZHEN DAYBETTER OPTO-ELECTRONICS CO.,LTD</b>                            |
| Address.....             | : 4F,BUILDING 2, ANTUOSHAN HI-TECH PARK BAOAN DISTRICT<br>SHENZHEN 518000 China |
| Telephone.....           | : /                                                                             |
| Fax.....                 | : /                                                                             |

|                    |             |
|--------------------|-------------|
| <b>Test Result</b> | <b>Pass</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.

Revision History

| Report Version | Issue Date         | Revision Content | Revised By |
|----------------|--------------------|------------------|------------|
| 000            | September 25, 2025 | Initial Issue    | ---        |
|                |                    |                  |            |
|                |                    |                  |            |

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**1. Product Information**

|                                                                                                                                           |                                                                                                                           |
|-------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| EUT                                                                                                                                       | : Strip light                                                                                                             |
| Test Model                                                                                                                                | : D32133-30A                                                                                                              |
| Additional Model No.                                                                                                                      | : D32133-20A,D32133-10A,D32133-05A                                                                                        |
| Model Declaration                                                                                                                         | : PCB board, structure and internal of these model(s) are the same, So no additional models were tested                   |
| Ratings                                                                                                                                   | : Input: 24V $\overline{=}$ 1A<br>For AC Adapter Input: 100-240V~, 50/60Hz, 0.8A<br>Adapter Output: 24V $\overline{=}$ 1A |
| Hardware Version                                                                                                                          | : VER1.0.0                                                                                                                |
| Software Version                                                                                                                          | : VER1.0.0                                                                                                                |
| Bluetooth                                                                                                                                 | :                                                                                                                         |
| Frequency Range                                                                                                                           | : 2402MHz~2480MHz                                                                                                         |
| Channel Number                                                                                                                            | : 40 channels for Bluetooth V5.0 (DTS)                                                                                    |
| Channel Spacing                                                                                                                           | : 2MHz for Bluetooth V5.0 (DTS)                                                                                           |
| Modulation Type                                                                                                                           | : GFSK for Bluetooth V5.0 (DTS)                                                                                           |
| Bluetooth Version                                                                                                                         | : V5.0                                                                                                                    |
| Antenna Description                                                                                                                       | : PCB Antenna, 2.499dBi(Max.)                                                                                             |
| Exposure category                                                                                                                         | : General population/uncontrolled environment                                                                             |
| EUT Type                                                                                                                                  | : Production Unit                                                                                                         |
| Device Type                                                                                                                               | : Mobile Devices                                                                                                          |
| Note: For a more detailed antenna description, please refer to the antenna specifications or the antenna report provided by the customer. |                                                                                                                           |

## 2. Evaluation Method

Systems operating under the provisions of FCC 47 CFR section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as mobile device whereby a distance of 0.2m normally can be maintained between the user and the device, and below RF Permissible Exposure limit shall comply with.

In accordance with KDB447498D01 for Simultaneous transmission MPE test exclusion applies when the sum of the MPE ratios for all simultaneous transmitting antennas incorporated in a host device, based on the calculated/estimated, numerically modelled or measured field strengths or power density, is  $\leq 1.0$ . The MPE ratio of each antenna is determined at the minimum test separation distance required by the operating configurations and exposure conditions of the host device, according to the ratio of field strengths or power density to MPE limit, at the test frequency. Either the maximum peak or spatially averaged results from measurements or numerical simulations may be used to determine the MPE ratios. Spatial averaging does not apply when MPE is estimated using simple calculations based on far-field plane-wave equivalent conditions. The antenna installation and operating requirements for the host device must meet the minimum test separation distances required by all antennas, in both standalone and simultaneous transmission operations, to satisfy compliance.

## 3. Limit

### 3.1 Refer Evaluation Method

[ANSI C95.1-2019](#): IEEE Standard for Safety Levels with Respect to Human Exposure to Electric, Magnetic, and Electromagnetic Fields, 0 Hz to 300 GHz

[FCC KDB publication 447498 D01 General 1 RF Exposure Guidance v06](#): Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies.

[FCC CFR 47 part1 1.1310](#): Radiofrequency radiation exposure limits.

[FCC CFR 47 part2 2.1091](#): Radiofrequency radiation exposure evaluation: mobile devices.

### 3.2 Limit

Limits for Maximum Permissible Exposure (MPE)/Controlled Exposure

| Frequency Range(MHz)                        | Electric Field Strength(V/m) | Magnetic Field Strength(A/m) | Power Density (mW/cm <sup>2</sup> ) | Averaging Time (minute) |
|---------------------------------------------|------------------------------|------------------------------|-------------------------------------|-------------------------|
| Limits for Occupational/Controlled Exposure |                              |                              |                                     |                         |
| 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                       |

Limits for Maximum Permissible Exposure (MPE)/Uncontrolled Exposure

| Frequency Range(MHz)                          | Electric Field Strength(V/m) | Magnetic Field Strength(A/m) | Power Density (mW/cm <sup>2</sup> ) | Averaging Time (minute) |
|-----------------------------------------------|------------------------------|------------------------------|-------------------------------------|-------------------------|
| Limits for Occupational/Uncontrolled Exposure |                              |                              |                                     |                         |
| 0.3 – 3.0                                     | 614                          | 1.63                         | (100) *                             | 30                      |
| 3.0 – 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

\*=Plane-wave equivalent power density

#### 4. MPE Calculation Method

Predication of MPE limit at a given distance  
Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = PG / 4\pi R^2$$

Where: S=power density

P=power input to antenna

G=power gain of the antenna in the direction of interest relative to an isotropic radiator

R=distance to the center of radiation of the antenna

#### 5. Antenna Information

EUT can only use antennas certificated as follows provided by manufacturer;

| Internal/External Identification | Antenna type and antenna number | Operate frequency band | Maximum antenna gain | Notes         |
|----------------------------------|---------------------------------|------------------------|----------------------|---------------|
| Internal                         | PCB Antenna                     | 2400-2500MHz           | 2.499dBi             | BT LE Antenna |

#### 6. Conducted Power

[BLE1M]

| Mode | Channel | Frequency (MHz) | Peak Conducted Output Power (dBm) |
|------|---------|-----------------|-----------------------------------|
| GFSK | 0       | 2402            | 0.31                              |
|      | 19      | 2440            | 0.34                              |
|      | 39      | 2480            | -0.56                             |

#### 7. Manufacturing Tolerance

[BLE1M]

| GFSK(Peak)           |           |            |            |
|----------------------|-----------|------------|------------|
| Channel              | Channel 0 | Channel 19 | Channel 39 |
| Target (dBm)         | 0         | 0          | 0          |
| Tolerance $\pm$ (dB) | 1.0       | 1.0        | 1.0        |

#### 8. Measurement Results

##### 8.1 Standalone MPE Evaluation

As declared by the Applicant, the EUT is a wireless device used in a fix application, at least 20 cm from any body part of the user or nearby persons; from the maximum EUT RF output power, the minimum separation distance,  $r = 20\text{cm}$ , as well as the gain of the used antenna refer to antenna information, the RF power density can be obtained.

[BLE 1M]

| Modulation Type | Output power |        | Antenna Gain (dBi) | Antenna Gain (linear) | MPE (mW/cm <sup>2</sup> ) | MPE Limits (mW/cm <sup>2</sup> ) |
|-----------------|--------------|--------|--------------------|-----------------------|---------------------------|----------------------------------|
|                 | dBm          | mW     |                    |                       |                           |                                  |
| GFSK            | 1.0          | 1.2589 | 2.499              | 1.7779                | 0.0004                    | 1.0000                           |

Remark:

1. Output power including tune-up tolerance;
2. Output power was adjust to duty cycle at 100% if measured duty cycle less than 98%;
3. MPE evaluate distance is 20cm from user manual provide by manufacturer.

## 8.2 Simultaneous Transmission MPE Evaluation

The EUT equipped with one module and one antenna. So no need consider simultaneous transmission.

## 9. Conclusion

The measurement results comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled RF Exposure of mobile device.

## 10. Description of Test Facility

Site Description  
EMC Lab.

:

CNAS Registration Number is L11555  
A2LA Certificate Number: 5099.01  
FCC Designation Number is CN1379  
Test Firm Registration Number: 729882

## 11. Measurement Uncertainty

| Test Item    |   | Frequency Range | Uncertainty         | Note |
|--------------|---|-----------------|---------------------|------|
| Output power | : | 1GHz-40GHz      | $\pm 0.57\text{dB}$ | (1)  |

(1). This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of  $k=2$ .

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