RF Exposure Evaluation

For

SHENZHEN DAYBETTER OPTO-ELECTRONICS CO.,LTD

Strip light

Test Model: SPX003

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, SHENZHEN, 518000, China

Prepared by : Guangzhou LCS Compliance Testing Laboratory Ltd.

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Date of receipt of test sample : September 12, 2025

Number of tested samples : 2

Sample No. : A250403040-1, A250403040-2

Serial number : Prototype

Date of Test : September 12, 2025 ~ September 22, 2025

Date of Report : September 23, 2025

RF Exposure Evaluation

Report Reference No.: LCSC09045026EB

Date of Issue.....: September 23, 2025

Testing Laboratory Name: Guangzhou LCS Compliance Testing Laboratory Ltd.

Guangdong, China

Testing Location/ Procedure.....: Full application of Harmonised standards ■

Report No.: LCSC09045026EB

Applicant's Name.....: SHENZHEN DAYBETTER OPTO-ELECTRONICS CO.,LTD

Address: 4F.BUILDING 2. ANTUOSHAN HI-TECH PARK BAOAN

DISTRICT, SHENZHEN, 518000, China

Test Specification

Standard......: FCC KDB publication 447498 D01 General RF Exposure Guidance

v06

FCC CFR 47 part1 1.1310 FCC CFR 47 part2 2.1091

Test Report Form No.....: : TRF-4-E-214 A/0

TRF Originator: Guangzhou LCS Compliance Testing Laboratory Ltd.

Master TRF: Dated 2011-03

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EUT Description.....: Strip light

Trade Mark....: N/A

Test Model: SPX003

Ratings.....: Please Refer to Page 6

Result: PASS

Compiled by: Supervised by: Approved by:

Li ferm Le

Justin Zhu / Technique Director Lifeng Le / File administrators Gavin Liang/ Manager Page 3 of 9 FCC ID: 2A7WU-SPX003A Report No.: LCSC09045026EB

RF Exposure Evaluation

Test Report No. : LCSC09045026EB September 23, 2025

Date of issue

Test Model..... : SPX003 EUT.....: Strip light Applicant.....: : SHENZHEN DAYBETTER OPTO-ELECTRONICS CO.,LTD Address.....:: 4F,BUILDING 2, ANTUOSHAN HI-TECH PARK BAOAN DISTRICT, SHENZHEN, 518000, China Telephone.....:: : / Manufacturer.....:: SHENZHEN DAYBETTER OPTO-ELECTRONICS CO.,LTD Address.....: 4F,BUILDING 2, ANTUOSHAN HI-TECH PARK BAOAN DISTRICT, SHENZHEN, 518000, China Telephone.....:: : / Fax.....: : / Factory.....:: : SHENZHEN DAYBETTER OPTO-ELECTRONICS CO.,LTD Address......: 4F,BUILDING 2, ANTUOSHAN HI-TECH PARK BAOAN DISTRICT, SHENZHEN, 518000, China Telephone.....:: : / Fax.....:: : /

| Test Result | PASS |
|-------------|------|

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.

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Revision History

| Report Version | Issue Date | Revision Content | Revised By |
|----------------|--------------------|------------------|------------|
| 000 | September 23, 2025 | Initial Issue | |
| | | | |
| | | | |

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1. Product Information

EUT : Strip light Test Model : SPX003

Additional Model No. : SPX001, SPX002, SPX004, SPX005, SPX006

Model Declaration : PCB board, structure and internal of these model(s) are the same, So

no additional models were tested

Power Supply : Input:DC 5V/2A

Hardware Version : VER1.1.0 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 Device

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 ≤ 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

<u>FCC KDB publication 447498 D01 General 1 RF Exposure Guidance v06:</u> 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 | Electric Field | Magnetic Field | Power Density | Averaging Time | | | | |
|----------------|---|----------------|------------------------|----------------|--|--|--|--|
| Range(MHz) | Strength(V/m) | Strength(A/m) | (mW/cm²) | (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 ²)* | 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 | Electric Field | Magnetic Field | Power Density | Averaging Time | | | |
|----------------|---|----------------|------------------------|----------------|--|--|--|
| Range(MHz) | Strength(V/m) | Strength(A/m) | (mW/cm²) | (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 ²)* | 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/4πR²

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 Antenna | PCB Antenna | 2400-2500 MHz | 2.499dBi | BT Antenna |

6. Conducted Power

[BLE 1M]

| [DEE TIVI] | | | | | | | |
|------------|---------|-----------|-----------------------------|--|--|--|--|
| Mode | Channal | Frequency | Peak Conducted Output Power | | | | |
| Mode | Channel | (MHz) | (dBm) | | | | |
| | 0 | 2402 | 1.15 | | | | |
| GFSK | 19 | 2440 | 0.39 | | | | |
| | 39 | 2480 | -0.5 | | | | |

7. Manufacturing Tolerance

| BLE 1M (Peak) | | | | | |
|--|-----|-----|-----|--|--|
| Channel Channel 0 Channel 19 Channel 3 | | | | | |
| Target (dBm) 1.0 | | 0 | 0 | | |
| Tolerance ± (dB) | 1.0 | 1.0 | 1.0 | | |

8. Measurement Results

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 =20cm, as well as the gain of the used antenna refer to antenna information, the RF power density can be obtained.

| | Output | power | Antenna | Antenna | MPE | MPE |
|-----------------|--------|--------|---------|----------|---------------|----------|
| Modulation Type | dPm | mW | Gain | Gain | (mW/cm2) | Limits |
| | dBm | IIIVV | (dBi) | (linear) | (IIIVV/CIIIZ) | (mW/cm2) |
| BLE 1M | 2.0 | 1.5849 | 2.499 | 1.7779 | 0.0006 | 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.

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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

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 | ±0.57dB | (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-----