

## RF Exposure Evaluation Report

**Report Reference No.....** : MTEB25070063-H

**FCC ID.....** : 2BEVF-45M

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**Date of issue.....** : Jul.08,2025

**Representative Laboratory Name. :** Shenzhen Most Technology Service Co., Ltd.

**Address.....** : No.5, 2nd Langshan Road, North District, Hi-tech Industrial Park,  
Nanshan, Shenzhen, Guangdong, China.

**Applicant's name.....** : Dongguan Ixixing Lighting Co., Ltd

**Address.....** : 51 Wang on road, Chang An, Dongguan, China

**Test specification/ Standard.....** : 47 CFR Part 1.1307

47 CFR Part 2.1093

**TRF Originator.....** : Shenzhen Most Technology Service Co., Ltd.

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**Test item description.....** : Outdoor Ground Lights

**Trade Mark.....** : N/A

**Model/Type reference.....** : Ground Lights-15m

**Listed Models .....** : Ground Lights-30M, Ground Lights-45M

**Modulation Type.....** : GFSK

**Operation Frequency.....** : From 2402MHz to 2480MHz

**Hardware Version.....** : V1.0

**Software Version.....** : V1.6.2

**Rating.....** : DC 24V by Adapter

**Result.....** : PASS

**TEST REPORT**

Equipment under Test : Outdoor Ground Lights

Model /Type : Ground Lights-15m

Listed Models : Ground Lights-30M, Ground Lights-45M

Remark : Use Ground Lights-15m for all tests. Only the model name is different.while other designs are the same.Internal electronic components, circuit layout and wiring are consistent.

Applicant : **Dongguan Ixing Lighting Co., Ltd**

Address : 51 Wang on road, Chang An, Dongguan, China

Manufacturer : **Dongguan Ixing Lighting Co., Ltd**

Address : 51 Wang on road, Chang An, Dongguan, China

|                     |             |
|---------------------|-------------|
| <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.

## 1. Revision History

| Revision | Issue Date | Revisions     | Revised By |
|----------|------------|---------------|------------|
| 00       | 2025.07.08 | Initial Issue | Alisa Luo  |
|          |            |               |            |
|          |            |               |            |

## **2. SAR Evaluation**

### **2.1 RF Exposure Compliance Requirement**

#### **2.1.1 Standard Requirement**

According to KDB447498D01 General RF Exposure Guidance v06

##### **4.3.1. Standalone SAR test exclusion considerations**

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

#### **2.1.2 Limits**

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq 50$  mm are determined by:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where}$$

$f(\text{GHz})$  is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation<sup>17</sup>

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is  $\leq 50$  mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is  $< 5$  mm, a distance of 5 mm is applied to determine SAR test exclusion

### 2.1.3 EUT RF Exposure

#### Measurement Data

BLE

| GFSK             |                            |                            |                       |
|------------------|----------------------------|----------------------------|-----------------------|
| Test channel     | Peak Output Power<br>(dBm) | Tune up tolerance<br>(dBm) | Maximum tune-up Power |
|                  |                            |                            | (dBm)                 |
| Lowest(2402MHz)  | 2.51                       | 2.51±1                     | 3.51                  |
| Middle(2440MHz)  | 2.43                       | 2.43±1                     | 3.43                  |
| Highest(2480MHz) | 2.86                       | 2.86±1                     | 3.86                  |

#### Worst case: GFSK

| Channel          | Maximum Peak<br>Conducted Output<br>Power<br>(dBm) | Maximum tune-up<br>Power |      | Calculated<br>value | Exclusion<br>threshold | SAR Test<br>Exclusion |
|------------------|--|--------------------------|------|---------------------|------------------------|-----------------------|
|                  |  | (dBm)                    | (mW) |                     |                        |                       |
| Highest(2480MHz) | 2.86   | 3.86                     | 2.43 | 0.76                | 3.0                    | Yes                   |

.....THE END OF REPORT.....