



FCC Test Report

Report No: FCS202508308H01

Issued for

| | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| Applicant: | Guangzhou Yingwu E-commerce Co., Ltd. |
| Address: | No. 102, Unit One, Jinxing Road, Lantang Village, Donghuan Street, Panyu District, Guangzhou City |
| Product Name: | plant light |
| Brand Name: | PARAKEET |
| Model Name: | Zwdsg001 |
| Series Model: | Zwdsg002 |
| FCC ID: | |
| Test Standard: | FCC 47CFR §2.1093 |
| Issued By: Flux Compliance Service Laboratory Add: Room 105 Floor Bao hao Technology Building 1 NO.15 Gong ye West Road Hi-Tech Industrial, Song shan lake Dongguan Tel: 769-27280901 Fax:769-27280901 http://www.FCS-lab.com | |

TEST RESULT CERTIFICATION

Applicant's Name : Guangzhou Yingwu E-commerce Co., Ltd.
Address : No. 102, Unit One, Jinxing Road, Lantang Village, Donghuan Street, Panyu District, Guangzhou City
Manufacturer's Name : Guangzhou Yingwu E-commerce Co., Ltd.
Address : No. 102, Unit One, Jinxing Road, Lantang Village, Donghuan Street, Panyu District, Guangzhou City

Product Description

Product Name : plant light
Brand Name : PARAKEET
Model Name : Zwdsg001
Series Model : Zwdsg002
Test Standards : FCC 47CFR §2.1093
447498 D04 Interim General RF Exposure Guidance v01

This device described above has been tested by Flux Compliance Service Laboratory, the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

This report shall not be reproduced except in full, without the written approval of Flux Compliance Service Laboratory, this document may be altered or revised by Flux Compliance Service Laboratory, personal only, and shall be noted in the revision of the document.

Date of Test :

Date (s) of performance of tests : Aug. 13 2025 ~ Aug. 21 2025

Date of Issue : Aug. 21 2025

Test Result : Pass

Tested by

Scott Shen

(Scott Shen)

Reviewed by

Duke Qian

(Duke Qian)

Approved by

Jack Wang

(Jack Wang)



TABLE OF CONTENTS

| | |
|------------------------------------------|----------|
| 1. GENERAL INFORMATION | 5 |
| 1.1 GENERAL DESCRIPTION OF THE EUT | 5 |
| 1.2 TEST FACTORY | 6 |
| 2. FCC 47CFR § 2.1093 REQUIREMENT | 7 |
| 2.1 TEST STANDARDS | 7 |
| 2.2 LIMIT | 7 |
| 2.3 TEST RESULT | 10 |

**Revision History**

| Rev. | Issue Date | Contents |
|------|--------------|---------------|
| 00 | Aug. 21 2025 | Initial Issue |
| | | |

1. GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF THE EUT

| | | |
|---------------------|---------------------------------------------|--------------|
| Product Name | plant light | |
| Brand | PARAKEET | |
| Model Number | Zwdsg001 | |
| Series Model(s) | Zwdsg002 | |
| Model Difference | Only the controlled brightness is different | |
| Product Description | The EUT is plant light | |
| | Operation Frequency: | 434.08 MHz |
| | Modulation Type: | OOK |
| | Antenna gain: | -0.58 dBi |
| | Antenna Designation: | PCB antennas |
| Power Supply | DC 3V from Button battery | |
| Battery | DC 3V from Button battery | |
| Hardware Version | V1.0 | |
| Software Version | V1.0 | |



1.2 TEST FACTORY

| Company Name: | Flux Compliance Service Laboratory | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Address: | Room 105 Floor Bao hao Technology Building 1 NO.15 Gong ye West Road Hi-Tech Industrial, Song shan lake Dongguan | | |
| Telephone: | +86-769-27280901 | | |
| Fax: | +86-769-27280901 | | |
| <p>FCC Test Firm Registration Number: 514908 Designation number: CN0127 A2LA accreditation number: 5545.01 ISED Number: 25801 CAB ID : CN0097</p> | | | |
| Organization | CAB identifier | Scope / Recognition Date (yyyy-mm-dd) | Expiration (yyyy-mm-dd) |
| FLUX COMPLIANCE SERVICE LABORATORY Baohao Technology Building 1 No. 15 Gongye West Road Hi-Tech Industrial Park Songsham Lake Dongguan, Guangdong. 523808 PRC. | CN0097 | RSS-102(RFExp) (2020-01-09) RSS-GEN (2020-01-09) RSS-210 (2020-01-09) RSS-247 (2020-01-09) | RECOGNIZED UNTIL: 2023-12-31 A2LA ISO/IEC 17025: 2017 Expires: 2023-12-31 |
| <p>ISED#: 25801 Contact: Andy Yue andv-vue@fcs-lab.com</p> | | | |

2. FCC 47CFR §2.1093 REQUIREMENT

2.1 TEST STANDARDS

Follow the maximum permissible exposure (MPE) limits specified in 447498 D04 Interim General Radio Frequency Exposure Guidelines v01. The gain of the antenna used in the product was extracted from the supplied antenna data sheet and the maximum total power input to the antenna was also measured. Calculate the distance from the product to the MPE limit by the formula.

2.2 LIMIT

For single RF sources (i.e., any single fixed RF source, mobile device, or portable device, as defined in paragraph (b)(2) of this section): A single RF source is exempt if:

(A) The available maximum time-averaged power is no more than 1 mW, regardless of separation distance. This exemption may not be used in conjunction with other exemption criteria other than those in paragraph (b)(3)(ii)(A) of Part 1.1307. Medical implant devices may only use this exemption and that in paragraph (b)(3)(ii)(A);

(B) Or the available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold P_{th} (mW) described in the following formula. This method shall only be used at separation distances (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by:

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases}$$

Where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right) \text{ and } f \text{ is in GHz;}$$

and

$$ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases}$$

d = the separation distance (cm);

(C) Or using below table and the minimum separation distance (R in meters) from the body of a nearby person for the frequency (f in MHz) at which the source operates, the ERP (watts) is no more than the calculated value prescribed for that frequency. For the exemption in Table 1 to apply, R must be at least $\lambda/2\pi$, where λ is the free-space operating wavelength in meters. If the ERP of a single RF source is not easily obtained, then the available maximum time-averaged power may be used in lieu of ERP if the physical dimensions of the radiating structure(s) do not exceed the electrical length of $\lambda/4$ or if the antenna gain is less than that of a half-wave dipole (1.64 linear value).

| RF Source frequency (MHz) | Threshold ERP(watts) |
|---------------------------|----------------------|
| 0.3-1.34 | 1,920 R^2 . |
| 1.34-30 | 3,450 R^2/f^2 . |
| 30-300 | 3.83 R^2 . |
| 300-1,500 | 0.0128 R^2f . |
| 1,500-100,000 | 19.2 R^2 . |

For multiple RF sources: Multiple RF sources are exempt if:

(A) The available maximum time-averaged power of each source is no more than 1 mW and there is a separation distance of two centimeters between any portion of a radiating structure operating and the nearest portion of any other radiating structure in the same device, except if the sum of multiple sources is less than 1 mW during the time-averaging period, in which case they may be treated as a single source (separation is not required). This exemption may not be used in conjunction with other exemption criteria other than those in paragraph (b)(3)(i)(A) of Part 1.1307. Medical implant devices may only use this exemption and that in paragraph (b)(3)(i)(A).

(B) in the case of fixed RF sources operating in the same time-averaging period, or of multiple mobile or portable RF sources within a device operating in the same time averaging period, if the sum of the fractional contributions to the applicable thresholds is less than or equal to 1 as indicated in the following equation.

$$\sum_{i=1}^a \frac{P_i}{P_{th,i}} + \sum_{j=1}^b \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^c \frac{Evaluated_k}{Exposure\ Limit_k} \leq 1$$

Where:

a = number of fixed, mobile, or portable RF sources claiming exemption using paragraph (b)(3)(i)(B) of Part 1.1307 for $P_{th,i}$, including existing exempt transmitters and those being added.

b = number of fixed, mobile, or portable RF sources claiming exemption using paragraph (b)(3)(i)(C) of Part 1.1307 for Threshold ERP, including existing exempt transmitters and those being added.

c = number of existing fixed, mobile, or portable RF sources with known evaluation for the specified minimum distance including existing evaluated transmitters.

P_i = the available maximum time-averaged power or the ERP, whichever is greater, for fixed, mobile, or portable RF source i at a distance between 0.5 cm and 40 cm (inclusive).

$P_{th,i}$ = the exemption threshold power ($P_{th,i}$) according to paragraph (b)(3)(i)(B) of this section for fixed, mobile, or portable RF source i .

ERP_j = the ERP of fixed, mobile, or portable RF source j .

$ERP_{th,j}$ = exemption threshold ERP for fixed, mobile, or portable RF source j , at a distance of at least $\lambda/2\pi$ according to the applicable formula of paragraph (b)(3)(i)(C) of Part 1.1307.

$Evaluated_k$ = the maximum reported SAR or MPE of fixed, mobile, or portable RF source k either in the device or at the transmitter site from an existing evaluation at the location of exposure.

$Exposure\ Limit_k$ = either the general population/uncontrolled maximum permissible exposure (MPE) or specific absorption rate (SAR) limit for each fixed, mobile, or portable RF source k , as applicable from § 1.1310.

2.3 TEST RESULT

Turn up

| Mode | Field Strength | EIRP | Turn up EIRP |
|------------|----------------|------------|-------------------|
| 434.08 MHz | 77.48 dBuV/m | -17.72 dBm | -16dBm (+/- 1dBm) |

| Protocol | Fre. (GHz) | Separation distance (cm) | Max ERP (dBm) | Max EIRP (mW) | Limit (mW) | Result |
|------------|------------|--------------------------|---------------|---------------|------------|--------|
| 434.08 MHz | 0.43408 | 0.5 | -17.15 | 0.0193 | 1 | Pass |

Note: 1. EIRP(dBm)= E(dBuV/m)-95.2

2. ERP=EIRP-2.15

3. The Maximum power is less than 1mW, complies with the exemption requirements.

※※※※※END OF THE REPORT※※※※※