

# Ecovacs Home Service Robotics Co., Ltd.

## MPE ASSESSMENT REPORT

**Report Type:**

FCC Part §2.1091 and §1.1307(b) assessment report

**Model:**

WD008V02

**REPORT NUMBER:**

2604B0515SHA-002

**ISSUE DATE:**

May 6, 2026

**DOCUMENT CONTROL NUMBER:**

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**Applicant:** Ecovacs Home Service Robotics Co., Ltd.  
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**Manufacturer:** Same as applicant

**Factory 1:** Same as applicant

**Factory 2:** Competition Team Technology (Vietnam) Co.Ltd.  
No. 28 Guanyintangdou, Baoshan Village, Dongqian Subdistrict,  
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**Factory 3:** Lingding Service Robot (Zhejiang) Co., Ltd.  
No. 28 Guanyintangdou, Baoshan Village, Dongqian Subdistrict,  
Nanxun District, Huzhou, Zhejiang, China

**FCC ID:** 2A64B-WD008V02

**SUMMARY:**

The equipment complies with the requirements according to the following standard(s) or Specification:

KDB447498 D01 General RF Exposure Guidance v06  
FCC Part2.1091, FCC Part1.1307(b)

**PREPARED BY:**

Project Engineer  
Eric Li

**REVIEWED BY:**

Reviewer  
Wakeyou Wang

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## Revision History

| Report No.       | Version | Description             | Issued Date |
|------------------|---------|-------------------------|-------------|
| 2604B0515SHA-002 | Rev. 01 | Initial issue of report | May 6, 2026 |
|                  |         |                         |             |
|                  |         |                         |             |

## 1 GENERAL INFORMATION

### 1.1 Description of Equipment Under Test (EUT)

|                            |                                                                                                                                                                                                                                                            |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product name:              | Window Cleaning Robot                                                                                                                                                                                                                                      |
| Type/Model:                | WD008V02                                                                                                                                                                                                                                                   |
| Description of EUT:        | The EUT is a Window Cleaning Robot, it supports Bluetooth functions. We tested it and listed the worst results in this report.                                                                                                                             |
| Rating:                    | 24VDC 2.75A 66W<br>Adapter: BLJ66WB240275P-D,<br>Input: 100-240V ~ 50-60Hz 2.0A<br>Output: 24VDC 2.75A<br>Adapter: GM70-240275-D,<br>Input: 100-240V ~ 50-60Hz 2.5A<br>Output: 24VDC 2.75A 66W                                                             |
| Brand Name:                |  ,  ,  |
| EUT type:                  | <input checked="" type="checkbox"/> Table top <input type="checkbox"/> Floor standing                                                                                                                                                                      |
| Software Version:          | /                                                                                                                                                                                                                                                          |
| Hardware Version:          | /                                                                                                                                                                                                                                                          |
| Sample Identification No.: | A260407-003-001                                                                                                                                                                                                                                            |
| Sample received date:      | 2026.4.7                                                                                                                                                                                                                                                   |
| Date of test:              | 2026.4.8~2026.4.29                                                                                                                                                                                                                                         |

### 1.2 Technical Specification

|                      |                               |
|----------------------|-------------------------------|
| Frequency Band:      | 2402MHz to 2480MHz            |
| Support Standards:   | Bluetooth Low Energy          |
| Type of Modulation:  | GFSK                          |
| Channel Number:      | 40                            |
| Data Rate            | 1Mbps                         |
| Channel Separation:  | 2MHz                          |
| Antenna Information: | PCB Antenna, gain is -0.06dBi |

### 1.3 Description of Test Facility

|            |                                                                        |
|------------|------------------------------------------------------------------------|
| Name:      | Intertek Testing Services (Shanghai FTZ) Co., Ltd.                     |
| Address:   | Building 86, No. 1198 Qinzhou Road(North), Shanghai 200233, P.R. China |
| Telephone: | 86 21 61278200                                                         |
| Telefax:   | 86 21 54262353                                                         |

|                                                                                   |                                                                                                    |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| The test facility is recognized, certified, or accredited by these organizations: | CNAS Accreditation Lab<br>Registration No. CNAS L21189                                             |
|                                                                                   | FCC Accredited Lab<br>Designation Number: CN0175                                                   |
|                                                                                   | IC Registration Lab<br>CAB identifier.: CN0014                                                     |
|                                                                                   | VCCI Registration Lab<br>Member No: 3598 (Registration No.:<br>R-14243, G-10845, C-14723, T-12252) |
|                                                                                   | A2LA Accreditation Lab<br>Certificate Number: 3309.02                                              |

## 2 MPE Assessment

Test result: Pass

### 2.1 MPE Assessment Limit

Mobile device exposure for standalone operations:

| Frequency range | E-field strength (V/m) | H-field strength (A/m) | B-field (uT)        | Equivalent plane wave power density $S_{eq}$ (W/m <sup>2</sup> ) |
|-----------------|------------------------|------------------------|---------------------|------------------------------------------------------------------|
| 0-1 Hz          | -                      | $3,2 \times 10^4$      | $4 \times 10^4$     | -                                                                |
| 1-8 Hz          | 10 000                 | $3,2 \times 10^4/f^2$  | $4 \times 10^4/f^2$ | -                                                                |
| 8-25 Hz         | 10 000                 | $4\,000/f$             | $5\,000/f$          | -                                                                |
| 0,025-0,8 kHz   | $250/f$                | $4/f$                  | $5/f$               | -                                                                |
| 0,8-3 kHz       | $250/f$                | 5                      | 6,25                | -                                                                |
| 3-150 kHz       | 87                     | 5                      | 6,25                | -                                                                |
| 0,15-1 MHz      | 87                     | $0,73/f$               | $0,92/f$            | -                                                                |
| 1-10 MHz        | $87/f^{1/2}$           | $0,73/f$               | $0,92/f$            | -                                                                |
| 10-400 MHz      | 28                     | 0,073                  | 0,092               | 2                                                                |
| 400-2 000 MHz   | $1,375 f^{1/2}$        | $0,0037 f^{1/2}$       | $0,0046 f^{1/2}$    | $f/200$                                                          |
| 2-300 GHz       | 61                     | 0,16                   | 0,20                | 10                                                               |

Mobile device exposure for simultaneous transmission operations: **the sum of the MPE ratios for all simultaneously transmitting antennas incorporated in a host device is  $\leq 1.0$**

## TEST REPORT

### 2.2 Assessment Results

Power density (S) is calculated according to the formula:

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

Where S = power density in mW/cm<sup>2</sup>

P = Radiated transmit power in mW

G = numeric gain of transmit antenna

R = distance (cm)

As we can see from the test report 2604B0515SHA-001:

The calculations in the table below use the highest gain of antenna for client EUT. These calculations represent worst case in terms of the exposure levels.

| Mode      | Frequency band | Max Power | Antenna Gain | R    | S                     | Limits                |
|-----------|----------------|-----------|--------------|------|-----------------------|-----------------------|
|           | (MHz)          | dBm       | dBi          | (cm) | (mW/cm <sup>2</sup> ) | (mW/cm <sup>2</sup> ) |
| Bluetooth | 2402-2480      | 6.76      | -0.06        | 20   | 0.0009                | 1                     |
|           |                |           |              |      |                       |                       |

Note: 1 mW/cm<sup>2</sup> from 1.310 Table 1

Therefore, the MPE requirement is deemed to be satisfied without test.

## Appendix I

Definition below must be outlined in the User Manual:

To satisfy FCC RF exposure requirements, a separation distance of 20 cm or more should be maintained between the antenna of this device and persons during device operation. To ensure compliance, operations closer than this distance are not recommended.

\*\*\*\*\* END \*\*\*\*\*