



FCC Test Report

Report No: FCS202407165W02

Issued for

| | |
|--|---|
| Applicant: | Ningbo Henglang Import and Export Co., Ltd |
| Address: | Global Center 26-1, No. 295 Qiaoyuan North Road, Taoyuan Street, Ninghai County, Zhejiang Province, China |
| Product Name: | Desktop vacuum cleaner with wireless charging |
| Brand Name: | ODISTAR |
| Model Name: | LP-066X |
| Series Model: | N/A |
| FCC ID: | 2BHV7LP-066X |
| 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: Ningbo Henglang Import and Export Co., Ltd

Address.....: Global Center 26-1, No. 295 Qiaoyuan North Road, Taoyuan Street, Ninghai County, Zhejiang Province, China

Manufacture's Name: Ningbo Henglang Import and Export Co., Ltd

Address.....: Global Center 26-1, No. 295 Qiaoyuan North Road, Taoyuan Street, Ninghai County, Zhejiang Province, China

Product Description

Product Name: Desktop vacuum cleaner with wireless charging

Brand Name: ODISTAR

Model Name: LP-066X

Series Model.....: N/A

Test Standards.....: FCC CFR 47 PART 1, § 1.1310
KDB 680106 D01 Wireless Power Transfer v04

This device described above has been tested FCS, 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.

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Date of Test

Date (s) of performance of tests : 10 July, 2024 ~ 17 July, 2024

Date of Issue: 17 July, 2024

Test Result.....: Pass

Tested by

:

Scott Shen

(Scott Shen)

Reviewed by

:

Duke Qian

(Duke Qian)

Approved by

:

Jack Wang

(Jack Wang)



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Revision History

| Rev. | Issue Date | Effect Page | Contents |
|------|---------------|-------------|---------------|
| 00 | 17 July, 2024 | ALL | Initial Issue |
| | | | |

1. 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 |
| FCC Test Firm Registration Number: 514908 Designation number: CN0127 A2LA accreditation number: 5545.01 CNAS: L15566 | |

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

| | |
|-------------------------|---|
| Product Name | Desktop vacuum cleaner with wireless charging |
| Trade Name | ODISTAR |
| Model Name | LP-066X |
| Series Model | N/A |
| Model Difference | N/A |
| Operation frequency | 113kHz-205kHz |
| Modulation Technology | ASK |
| Antenna Type | Loop coil antenna |
| Antenna gain | 0dBi |
| Power Supply | Input: DC5V/1.2A Output: 5W |
| Battery | DC 3.7V, 1400mAh |
| Hardware version number | V1.0 |
| Software version number | V1.0 |
| Connecting I/O Port(s) | Please refer to the User's Manual |

3 TEST METHODOLOGY

3.1 Measuring Standard

According to §1.1307(b)(1), systems operating under the provisions of this 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. According to §1.1310 and §2.1091 RF exposure is calculated. According KDB680106 D01: KDB 680106 D01 Wireless Power Transfer v04.

3.2 Requirements

According to the item 3 of KDB 680106 D01v04:

Inductive wireless power transfer applications that meet all of the following requirements are excluded from submitting an RF exposure evaluation.

- (1) Mobile Device and Portable Device Configurations
- (2) Equipment Authorization Procedures for Devices Operating at Frequencies Below 4 MHz
- (3) The aggregate H-field strengths anywhere at or beyond 15 cm surrounding the device, and 20 cm away from the top surface.

3.1 Limits

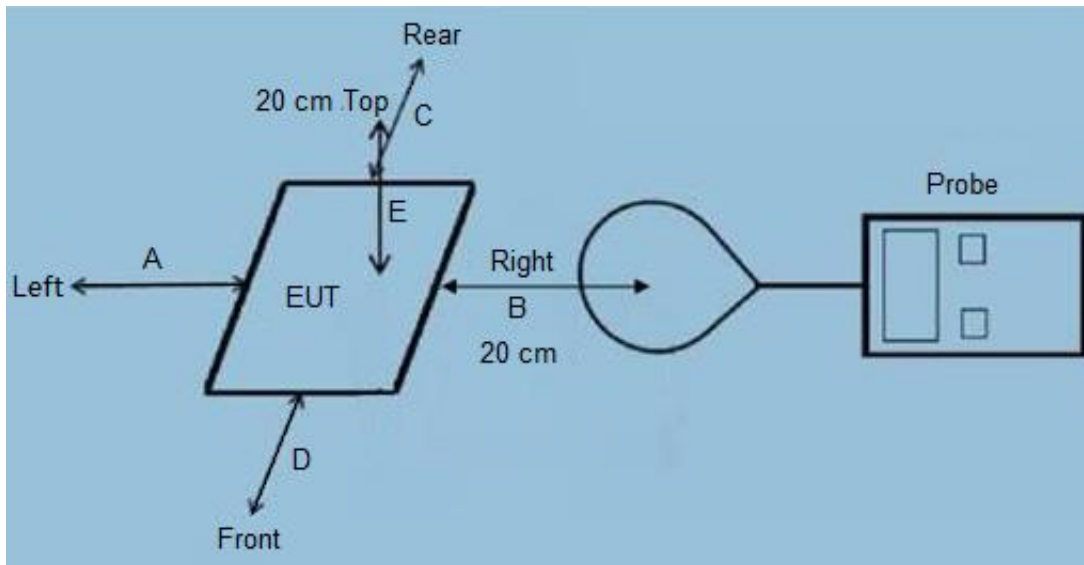
The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

Limits for Maximum Permissible Exposure (MPE)

| Frequency range (MHz) | Electric field strength (V/m) | Magnetic field strength (A/m) | Power density (mW/cm ²) | Averaging time (minutes) |
|--|-------------------------------|-------------------------------|-------------------------------------|--------------------------|
| (A) Limits for Occupational/Controlled Exposures | | | | |
| 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 |
| (B) Limits for General Population/Uncontrolled Exposure | | | | |
| 0.3-1.34 | 614 | 1.63 | *(100) | 30 |
| 1.34-30 | 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
 RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules. The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz:614V/m,1.63A/m).

3.2 Test Setup



3.3 Test Procedure

- 1) The RF exposure test was performed in anechoic chamber.
 - 2) The measurement probe was placed at test distance (20 cm from all sides and 20 cm from the top) which is between the edge of the charger and the geometric center of probe.
 - 3) The highest emission level was recorded and compared with limit as soon as measurement of each points (A, B, C, D, E, F) were completed.
 - 4) The EUT was measured according to the dictates of KDB 680106 D01 Wireless Power Transfer v04.
- Remark: The EUT's test position A, B, C, D, E and F is valid for the E and H field measurements.

4 Equipment Approval Considerations

The EUT does comply with KDB 680106 D01 as follow table.

| Requirements of section 5 of KDB 680106 D01 | Yes / No | Description |
|--|----------|--|
| Mobile Device and Portable Device Configurations | Yes | Mobile Device |
| Equipment Authorization Procedures for Devices Operating at Frequencies Below 4 MHz | Yes | The device operate in the frequency range 113kHz-205kHz |
| RF Exposure compliance may be ensured only for a minimum separation distance that is greater than 20 cm, while use conditions at smaller distances can still be considered unlikely. | Yes | The EUT H-field strengths at 20 cm surrounding the device and 20 cm above the top surface. |

4.1 Description of the test mode

Equipment under test was operated during the measurement under the following conditions:

| Test Mode | Description | |
|--|----------------------------|------------|
| Mode 1 | AC Adapter + EUT + Phone | Record |
| Mode 2 | Test the EUT in idle mode. | Pre-tested |
| Note: 1. All test modes were pre-tested, but we only recorded the worst case in this report. | | |

4.2 Peripheral List

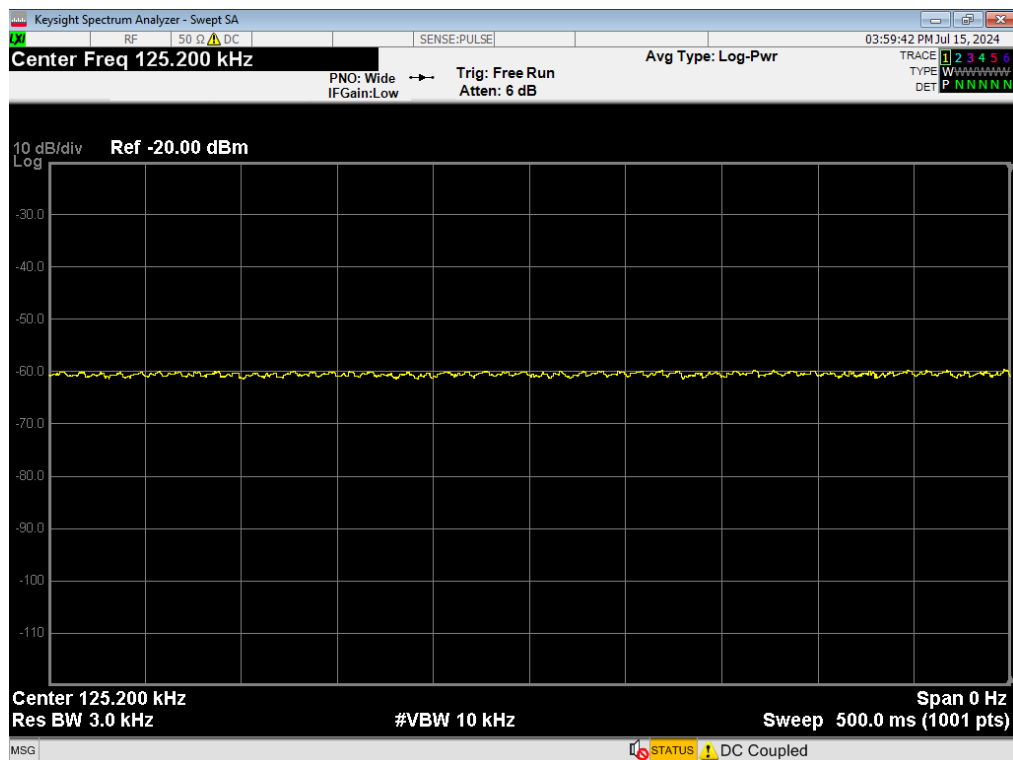
| No. | Equipment | Manufacturer | Model No. | Serial No. | Power cord | signal cable |
|-----|-----------|--------------|-----------|------------|------------|--------------|
| 1 | Phone | OSCAL | PILOT2 | N/A | N/A | N/A |
| 2 | Adapter | HNT | HNT-QC530 | N/A | N/A | N/A |

4.3 Test Instruments list

| Test Equipment | Manufacturer | Model No. | SN. | Cal.Date (mm-dd-yy) | Cal.Due date (mm-dd-yy) |
|---|--------------|-----------|----------------|------------------------|----------------------------|
| Electric and Magnetic Field Analyzer | Narda | EHP-200A | 180ZX10 505 | 20.06.2024 | 21.06.2025 |

4.4 Duty Cycle

| Mode | ON Time(ms) | Period(ms) | Duty Cycle(%) |
|---------------------|-------------|------------|---------------|
| Operating(125.2kHz) | / | / | 100 |



4.5 Test Result

| MPE | | | | |
|------------------|----------------|---------------------|---------------|---------------|
| Test distance | Battery levels | Probe from EUT Side | E-field (V/m) | H-field (A/m) |
| 20cm | < 1% | Top | 7.82 | 0.47 |
| 20cm | < 1% | Left | 7.35 | 0.33 |
| 20cm | < 1% | Right | 7.39 | 0.46 |
| 20cm | < 1% | Front | 7.60 | 0.45 |
| 20cm | < 1% | Rear | 7.71 | 0.42 |
| Limit | | | 614 | 1.63 |
| Margin Limit (%) | | | 1.27% | 28.83% |

| MPE | | | | |
|------------------|----------------|---------------------|---------------|---------------|
| Test distance | Battery levels | Probe from EUT Side | E-field (V/m) | H-field (A/m) |
| 20cm | < 50% | Top | 6.74 | 0.28 |
| 20cm | < 50% | Left | 6.16 | 0.26 |
| 20cm | < 50% | Right | 6.35 | 0.18 |
| 20cm | < 50% | Front | 6.23 | 0.13 |
| 20cm | < 50% | Rear | 6.20 | 0.15 |
| Limit | | | 614 | 1.63 |
| Margin Limit (%) | | | 1.10% | 17.18% |

| MPE | | | | |
|------------------|----------------|---------------------|---------------|---------------|
| Test distance | Battery levels | Probe from EUT Side | E-field (V/m) | H-field (A/m) |
| 20cm | < 99% | Top | 6.36 | 0.27 |
| 20cm | < 99% | Left | 5.86 | 0.12 |
| 20cm | < 99% | Right | 5.80 | 0.25 |
| 20cm | < 99% | Front | 5.48 | 0.25 |
| 20cm | < 99% | Rear | 6.13 | 0.14 |
| Limit | | | 614 | 1.63 |
| Margin Limit (%) | | | 1.04% | 16.56% |

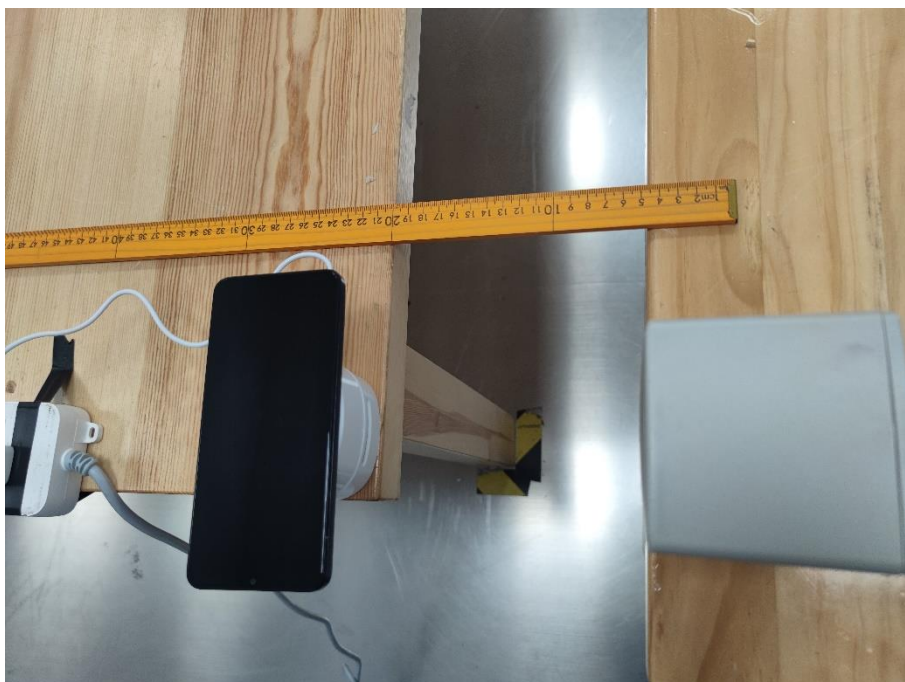
Note: All test modes were pre-tested, but we only recorded the worst case in this report.

4.6 Test Setup photo

Front



Left



Rear



Right



Top



End of report