

Test Report

Report No.: MTi230518003-10E2

Date of issue: 2023-05-31

Applicant: Shenzhen Yifeng Intelligent Technology Co., Ltd.

Product: 3-in-1 Magnetic Wireless Charging Stand

Model(s): M7

FCC ID: 2AXY5-M7

Shenzhen Microtest Co., Ltd.

<http://www.mtitest.com>

Instructions

1. This test report shall not be partially reproduced without the written consent of the laboratory.
2. The test results in this test report are only responsible for the samples submitted
3. This test report is invalid without the seal and signature of the laboratory.
4. This test report is invalid if transferred, altered, or tampered with in any form without authorization.
5. Any objection to this test report shall be submitted to the laboratory within 15 days from the date of receipt of the report.

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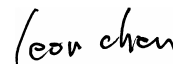
| Test Result Certification | |
|----------------------------|--|
| Applicant: | Shenzhen Yifeng Intelligent Technology Co., Ltd. |
| Address: | 10th Floor, Building 2, Chaxi, Zone B, Huafeng First Science Park, Hangcheng Street, Gushu, Baoan District, Shenzhen, China. |
| Manufacturer: | Shenzhen Yifeng Intelligent Technology Co., Ltd. |
| Address: | 10th Floor, Building 2, Chaxi, Zone B, Huafeng First Science Park, Hangcheng Street, Gushu, Baoan District, Shenzhen, China. |
| Factory: | Shenzhen Yifeng Intelligent Technology Co., Ltd. |
| Address: | 10th Floor, Building 2, Chaxi, Zone B, Huafeng First Science Park, Hangcheng Street, Gushu, Baoan District, Shenzhen, China. |
| Product description | |
| Product name: | 3-in-1 Magnetic Wireless Charging Stand |
| Trademark: | YFZN |
| Model name: | M7 |
| Series Model: | N/A |
| Standards: | FCC CFR 47 PART 1, § 1.1310 |
| Test method: | KDB 680106 v03r01 |
| Date of Test | |
| Date of test: | 2023-05-24 ~ 2023-05-31 |
| Test result: | Pass |

Test Engineer :



(Maleah Deng)

Reviewed By :



(Leon Chen)

Approved By :



(Tom Xue)

1 General Description

1.1 Description of the EUT

| | |
|--------------------------|---|
| Product name: | 3-in-1 Magnetic Wireless Charging Stand |
| Model name: | M7 |
| Series Model: | N/A |
| Model difference: | N/A |
| Electrical rating: | Input: DC 9V/2A Output: Coil 1(Phone): 5W/7.5W/10W/15W Max, Coil 2(Earphone):5W Max, Coil 3(Watch): 3W Max |
| Accessories: | N/A |
| Hardware version: | V1.3 |
| Software version: | V0x75 |
| RF specification: | |
| Operation frequency: | Transmitter 1 (Phone): 115 kHz – 205 kHz Transmitter 2 (Earphone): 115 kHz – 205 kHz Transmitter 3 (Watch): 300 kHz – 350 kHz |
| Modulation type: | ASK |
| Antenna type: | Coil Antenna |

1.2 Description of test modes

All the test modes were carried out with the EUT in normal operation, the final test mode of the EUT was the worst test mode for emission test, which was shown in this report and defined as:

| No. | Emission test modes |
|---|---------------------------------------|
| Mode 1 | Wireless Output(5W) |
| Mode 2 | Wireless Output(7.5W) |
| Mode 3 | Wireless Output(10W) |
| Mode 4 | Wireless Output(15W) |
| Mode 5 | Earphone(5W) |
| Mode 6 | Watch(3W) |
| Mode 7 | Wireless Output(5W)+Earphone(5W) |
| Mode 8 | Wireless Output(7.5W)+Earphone(5W) |
| Mode 9 | Wireless Output(10W)+Earphone(5W) |
| Mode 10 | Wireless(5W)+Watch(3W) |
| Mode 11 | Wireless(7.5W)+Watch(3W) |
| Mode 12 | Wireless(10W)+Watch(3W) |
| Mode 13 | Wireless(15W)+Watch(3W) |
| Mode 14 | Wireless(5W)+Watch(3W)+Earphone(5W) |
| Mode 15 | Wireless(7.5W)+Watch(3W)+Earphone(5W) |
| Mode 16 | Wireless(10W)+Watch(3W)+Earphone(5W) |
| Mode 17 | Watch(3W)+ Earphone(5W) |
| Mode 18 | Stand-by |
| The test data only show worst test mode: Mode 16 | |

1.3 Description of support units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

| Support equipment list | | | |
|------------------------|------------|--------------|--------------|
| Description | Model | Serial No. | Manufacturer |
| Air Pods | A2190 | H6LDLEZ70C6L | Apple |
| iWatch | iWatch S8 | M0JVGQG1VP | Apple |
| Adapter | 191106C | / | ifory |
| Mobile phone | S9+ | R28C34V79NT | SAMSUNG |
| Support cable list | | | |
| Description | Length (m) | From | To |
| / | / | / | / |

2 Measurement uncertainty

| Parameter | Expanded Uncertainty |
|--|----------------------|
| Magnetic field measurement (9kHz~30MHz) | $\pm 18.6\%$ |
| Electric field measurements (9kHz~30MHz) | $\pm 18.6\%$ |

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

3 Test facilities and accreditations

3.1 Test laboratory

| | |
|------------------------|---|
| Test laboratory: | Shenzhen Microtest Co., Ltd. |
| Test site location: | 101, No. 7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinhe Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China |
| Telephone: | (86-755)88850135 |
| Fax: | (86-755)88850136 |
| CNAS Registration No.: | CNAS L5868 |
| FCC Registration No.: | 448573 |

4 List of test equipment

| No. | Equipment | Manufacturer | Model | Serial No. | Cal. date | Cal. Due |
|----------|--|--------------|----------|------------|------------|------------|
| MTI-E115 | Electric and Magnetic Field Probe – Analyzer | Narda | EHP-200A | 101166 | 2022/08/15 | 2023/08/14 |

5 Test result

5.1.1 Requirement

§1.1310: 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), except in the case of portable devices which shall be evaluated according to the provisions of FCC part 2.1093 of this chapter.

Table 1 to §1.1310(e)(1) - 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) |
|---|-------------------------------|-------------------------------|-------------------------------------|--------------------------|
| (i) 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 |
| 1500-100000 | | | 5 | <6 |
| (ii) 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 |
| 1500-100000 | | | 1.0 | <30 |

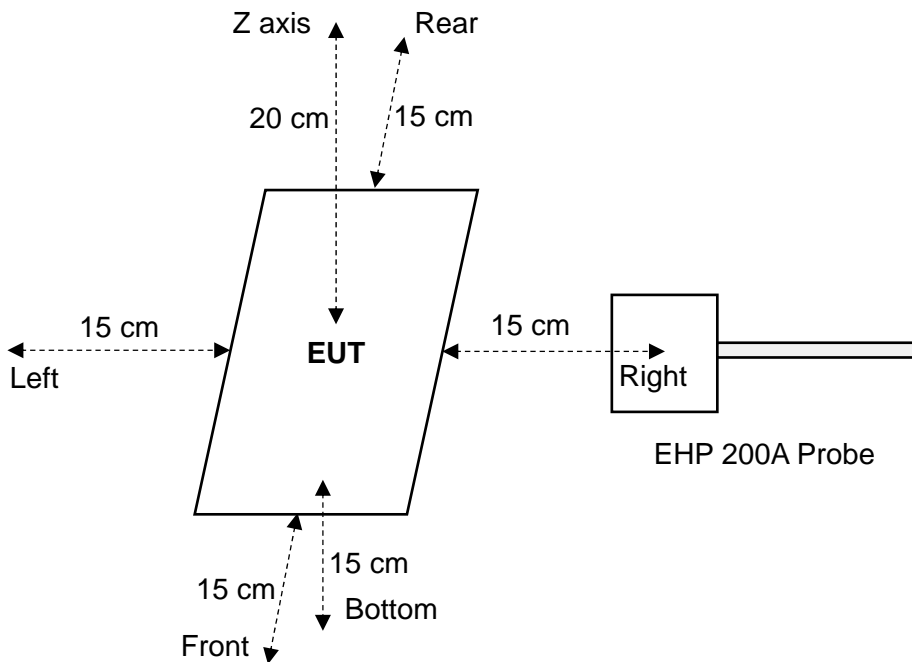
f = frequency in MHz

* = Plane-wave equivalent power density

Note 1: Occupational/controlled exposure limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure.

Note 2: General population/uncontrolled exposure limits apply in situations in which the general public may be exposed, or in which persons who are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.

5.2 Test setup



5.3 Test Procedures

- The RF exposure test was performed in anechoic chamber.
- E and H-field measurements should be made with the center of the probe at a distance of 15 cm surrounding the device and 20 cm above the top surface of the primary/client pair.
- The highest emission level was recorded and compared with limit.
- The EUT was measured according to the dictates of KDB 680106 v03r01.

5.4 Equipment Approval Considerations item 5 b) of KDB 680106 D01 v03r01

| Requirement | Device |
|---|--|
| 1. Power transfer frequency is less than 1 MHz. | Yes. The operating frequencies are: Transmitter 1 (Phone): 115 kHz – 205 kHz Transmitter 2 (Earphone): 115 kHz – 205 kHz Transmitter 3 (Watch): 300 kHz – 350 kHz |
| 2. Output power from each primary coil is less than or equal to 15 watts | Yes. The maximum output power is: 15W |
| 3. The system may consist of more than one source primary coils, charging one or more clients. If more than one primary coil is present, the coil pairs may be powered on at the same time. | Yes. The EUT has three source primary coils. |
| 4. Client device is placed directly in contact with the transmitter. | Yes. The client device is placed directly in contact with the transmitter. |
| 5. Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion). | Yes. Mobile exposure conditions only. |
| 6. The aggregate H-field strengths anywhere at or beyond 15 cm surrounding the device, and 20 cm away from the surface from all coils that by design can simultaneously transmit, and while those coils are simultaneously energized, are demonstrated to be less than 50% of the applicable MPE limit. | Yes. See the test result in item 5.5. |

5.5 Test results

Test condition 1: Mode 16 operating mode with client device (1 % battery status of client device)

| Antenna | Probe Position | E –field (V/m) | | | H–field (A/m) | | |
|---------|----------------|----------------|-------|---------------------|---------------|-------|---------------------|
| | | Measurement | Limit | Max. Percentage (%) | Measurement | Limit | Max. Percentage (%) |
| 1 | Z axis | 2.2521 | 614 | 0.37% | 0.2304 | 1.63 | 24.87% |
| | Left | 1.1204 | | | 0.2631 | | |
| | Right | 0.8411 | | | 0.2478 | | |
| | Front | 0.8832 | | | 0.0690 | | |
| | Rear | 0.8146 | | | 0.2354 | | |
| | Bottom | 1.2486 | | | 0.4054 | | |

Test condition 2: Mode 16 operating mode with client device (50 % battery status of client device)

| Antenna | Probe Position | E –field (V/m) | | | H–field (A/m) | | |
|---------|----------------|----------------|-------|----------------|---------------|-------|----------------|
| | | Measurement | Limit | Percentage (%) | Measurement | Limit | Percentage (%) |
| 1 | Z axis | 2.2592 | 614 | 0.37% | 0.2367 | 1.63 | 24.64% |
| | Left | 1.121 | | | 0.2635 | | |
| | Right | 0.8413 | | | 0.2531 | | |
| | Front | 0.9026 | | | 0.0622 | | |
| | Rear | 0.8094 | | | 0.2282 | | |
| | bottom | 1.268 | | | 0.4017 | | |

Test condition 3: Mode 16 operating mode with client device (99 % battery status of client device)

| Antenna | Probe Position | E –field (V/m) | | | H–field (A/m) | | |
|---------|----------------|----------------|-------|----------------|---------------|-------|----------------|
| | | Measurement | Limit | Percentage (%) | Measurement | Limit | Percentage (%) |
| 1 | Z axis | 2.2395 | 614 | 0.36% | 0.2271 | 1.63 | 24.86% |
| | Left | 1.1045 | | | 0.2537 | | |
| | Right | 0.825 | | | 0.2472 | | |
| | Front | 0.8659 | | | 0.0648 | | |
| | Rear | 0.8084 | | | 0.2347 | | |
| | bottom | 1.2449 | | | 0.4052 | | |

Photographs of the Test Setup

See the Appendix - Test Setup Photos.

Photographs of the EUT

See the Appendix - EUT Photos.

----End of Report----