# द्विड

#### Shenzhen Global Test Service Co.,Ltd.

No.7-101 and 8A-104, Building 7 and 8, DCC Cultural and Creative Garden No.98, Pingxin North Road, Shangmugu, Pinghu Street, Longgang District, Shenzhen, Guangdong, China

#### **TEST REPOR**

Report Reference No...... GTS20210202002-1-6
FCC ID...... 2AYYBCC08-N1

Compiled by

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Date of issue...... Feb.21, 2021

Representative Laboratory Name .: Shenzhen Global Test Service Co.,Ltd.

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Address....... Creative Garden No.98, Pingxin North Road, Shangmugu, Pinghu

Street, Longgang District, Shenzhen, Guangdong, China

MINAN Jan

Applicant's name...... Shenzhen Miracle Intelligent Technology Co., LTD

Test specification .....:

Standard ...... FCC KDB 680106 D01

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Test item description ...... Magnetic Wireless Charger

Trade Mark ...... Miracase

Model/Type reference...... CC08-N1

CC08-N2, CC08-N3, CC08-N4, CC08-N5, CC08-N6, CC08-N7,

CC08-N13, CC08-N14, CC08-N15

Modulation Type ...... CW (Continuous Wave)

Operation Frequency...... 110-205KHz

Output: DC 5.0V/1.0A / DC 7.5V/1.0A/ DC 9.0V/1.22A/

DC9.0V/1.66A

Result.....: PASS

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#### TEST REPORT

| Test Report No. : | GTS20210202002-1-6 | Feb.21, 2021  |
|-------------------|--------------------|---------------|
|                   | G1320210202002-1-0 | Date of issue |

Equipment under Test : Magnetic Wireless Charger

Model /Type : CC08-N1

: CC08-N2, CC08-N3, CC08-N4, CC08-N5, CC08-N6, CC08-N7,

Listed Models CC08-N8, CC08-N9, CC08-N10, CC08-N11, CC08-N12, CC08-N13,

CC08-N14, CC08-N15

Applicant : Shenzhen Miracle Intelligent Technology Co., LTD

Address : 4/F, Bldg 14, Dragon Jade Industrial District, No.27 Road Dafa,

Bantian Avenue, Longgang, Shenzhen, Guangdong, 518129, China

Manufacturer Shenzhen Miracle Intelligent Technology Co., LTD

Address : 4/F, Bldg 14, Dragon Jade Industrial District, No.27 Road Dafa,

Bantian Avenue, Longgang, Shenzhen, Guangdong, 518129, China

| Test Result: | PASS |
|--------------|------|
|--------------|------|

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.

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# 1. SUMMARY

## 1.1. General Remarks

| Date of receipt of test sample | : | Feb.05, 2020 |
|--------------------------------|---|--------------|
|                                |   |              |
| Testing commenced on           | : | Feb.05, 2020 |
|                                |   |              |
| Testing concluded on           | : | Feb.21, 2021 |

# 1.2. Product Description

| Product Name:                        | Magnetic Wireless Charger  |  |  |  |  |
|--------------------------------------|--|--|--|--|--|
| Trade Mark:                          | Miracase   |  |  |  |  |
| Model/Type reference:                | CC08-N1  |  |  |  |  |
| List Model:                          | CC08-N2, CC08-N3, CC08-N4, CC08-N5, CC08-N6, CC08-N7, CC08-N8, CC08-N9, CC08-N10, CC08-N11, CC08-N12, CC08-N13, CC08-N14, CC08-N15       |  |  |  |  |
| Model Declaration                    | PCB board, structure and internal of these model(s) are the same, Only the model name is different, So no additional models were tested. |  |  |  |  |
| Power supply:                        | Input: DC 5.0V/3.0A / DC 9.0V/2.2A Output: DC 5.0V/1.0A / DC 7.5V/1.0A/ DC 9.0V/1.22A/ DC9.0V/1.66A                                      |  |  |  |  |
| Hardware version                     | 2020-12-22 V1.0  |  |  |  |  |
| Software version                     | V1.1   |  |  |  |  |
| WPT                                  |  |  |  |  |  |
| Operation frequency                  | 110-205KHz   |  |  |  |  |
| Modulation Type CW (Continuous Wave) |  |  |  |  |  |
| Load Sensing                         | Contact transmission   |  |  |  |  |
| Antenna Type                         | Coil Antenna   |  |  |  |  |
| Antenna Gain                         | 0dBi   |  |  |  |  |

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#### 1.3. Equipment Under Test

#### Power supply system utilised

| Power supply voltage | : | 0 | 230V / 50 Hz                     | 0 | 120V / 60Hz |
|----------------------|---|---|----------------------------------|---|-------------|
|                      |   | 0 | 12 V DC                          | 0 | 24 V DC     |
|                      |   | • | Other (specified in blank below) |   |             |

#### Description of the test mode

| Operation Fre | equency each of channel |
|---------------|-------------------------|
| Channel       | Frequency               |
| 1             | 155.1KHz                |

| Test N | Test Modes:   |            |  |  |  |  |
|--------|---|------------|--|--|--|--|
| TM1    | AC/DC Adapter (9V/2.2A) + EUT + Wireless load (Battery Status: <1%)                       | Record     |  |  |  |  |
| TM2    | AC/DC Adapter (9V/2.2A) + EUT + Wireless load (Battery Status: <50%)                      | Pre-tested |  |  |  |  |
| TM3    | AC/DC Adapter (9V/2.2A) + EUT + Wireless load (Battery Status: 100%)                      | Pre-tested |  |  |  |  |
| TM4    | AC/DC Adapter (5V/3A) + EUT + Wireless load (Battery Status: <1%)                         | Pre-tested |  |  |  |  |
| TM5    | AC/DC Adapter (5V/3A) + EUT + Wireless load (Battery Status: <50%)                        | Pre-tested |  |  |  |  |
| TM6    | AC/DC Adapter (5V/3A) + EUT + Wireless load (Battery Status: 100%)                        | Pre-tested |  |  |  |  |
| Note:  | Note: All test modes were pre-tested, but we only recorded the worst case in this report. |            |  |  |  |  |

#### 1.4. Modifications

No modifications were implemented to meet testing criteria.

#### 1.5. Address of the test laboratory

#### Shenzhen Global Test Service Co.,Ltd.

No.7-101 and 8A-104, Building 7 and 8, DCC Cultural and Creative Garden No.98, Pingxin North Road, Shangmugu, Pinghu Street, Longgang District, Shenzhen, Guangdong, China

#### 1.6. Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS (No. CNAS L8169)

Shenzhen Global Test Service Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2019 General Requirements) for the Competence of Testing and Calibration Laboratories.

A2LA (Certificate No. 4758.01)

Shenzhen Global Test Service Co., Ltd. has been assessed by the American Association for Laboratory Accreditation (A2LA). Certificate No. 4758.01.

Industry Canada Registration Number. is 24189.

FCC Designation Number is CN1234.

FCC Registered Test Site Number is165725.

IC Registration Number is 24189.

CAB identifier is CN0082.

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#### 1.7. Statement of the measurement uncertainty

| Measurement Uncertainty                               |   |             |
|---|---|-------------|
| Radiated emission expanded uncertainty(9kHz-30MHz)    | = | 3.08dB, k=2 |
| Radiated emission expanded uncertainty(30MHz-1000MHz) | = | 4.42dB, k=2 |
| Radiated emission expanded uncertainty(Above 1GHz)    | = | 4.06dB, k=2 |

#### 1.8. TEST STANDARDS

ANSI C95.1–1999: IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.

<u>FCC KDB publication 680106 D01 RF Exposure Wireless Charging Apps v03:</u> RF Exposure Considerations for Low Power Consumer Wireless Power Transfer Applications

FCC CFR 47 part1 1.1310: Radiofrequency radiation exposure limits.

FCC CFR 47 part2 2.1091: Radiofrequency radiation exposure evaluation: mobile devices

FCC CFR 47 part 18.107:Indusial, Scientific, and Medical Equipment

#### 1.9. Equipments Used during the Test

| Description              | Brand | Model No. | Serial no. | Calibrated Date | Calibrated Until |
|--------------------------|-------|-----------|------------|-----------------|------------------|
| Exposure Level<br>Tester | NARDA | ELT-400   | N-0713     | Apr. 02, 2020   | Apr. 01, 2021    |
| B-Field Probe            | NARDA | ELT-400   | M-1154     | Apr. 10, 2020   | Apr. 09, 2021    |

NOTE: 1. The calibration interval of the above test instruments is 12 months .

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### 2. TEST CONDITIONS AND RESULTS

#### 2.1. Evaluation Method

Per KDB 680106 D01 Section 3. RF Exposure Requirements;

- 1. Consumer wireless power transfer devices approved under Part 18 in some cases have to demonstrate compliance with RF exposure requirements. The potential for exposure must be assessed according to the operating configurations of the wireless system and the exposure conditions of users and bystanders. RF exposure must be evaluated with the client device(s) being charged by the primary at maximum output power. The RF exposure requirements must be determined in conjunction with the device operating characteristics, according to the mobile and portable exposure requirements in Section 2.1091 and Section 2.1093 of the rules. SAR and MPE limits do not cover the frequency range for wireless power transfer applications which operate below 100 kHz and 300 kHz respectively; therefore, RF exposure compliance needs to be determined with respect to 1.1307 (c) and (d) of the FCC rules.
- 2. Based on the design and implementation of the power transfer application, it must be clearly identified if mobile or portable RF exposure conditions apply. Devices that are installed to provide separation of at least 20 cm from users and bystanders may qualify for mobile exposure conditions. For some conditions where users and bystanders may be exposed at closer than 20 cm, section 2.1091(d) (4) of the rules may apply.
- 3. For devices designed for typical desktop applications, such a wireless charging pads, RF exposure evaluation should be conducted assuming a user separation distance of 15 cm. E and H field strength measurements or numerical modeling may be used to demonstrate compliance. Measurements should be made from all sides and the top of the primary/client pair, with the 15 cm measured from the center of the probe(s) to the edge of the device. Emissions between 100 kHz to 300 kHz should be assessed versus the limits at 300 kHz in Table 1 of Section 1.1310: 614 V/m and 1.63 A/m. A KDB inquiry is required to determine the applicable exposure limits below 100 kHz.
- 4. Portable exposure conditions from 100 kHz to 6 GHz are determined with respect to SAR requirements. Existing SAR systems and test procedures are generally intended for measurements above 100 MHz. While numerical modeling can be an alternative, the constraints of substantial computational resources at low frequencies could introduce further limitations. Under these circumstances, including operations below 100 kHz, the Commission may consider a combination of analytical analysis, field strength, radiated and conducted power measurements, in conjunction with some limited numerical modeling to assess compliance.
- 5. Depending on the operating frequency, existing SAR and MPE measurement procedures may be adapted to evaluate wireless power transfer devices for compliance with respect to mobile or portable exposure conditions. If the grantee or its test lab have any questions regarding RF exposure evaluation they should contact the FCC Laboratory with sufficient system operating configuration details to determine if RF exposure evaluation is necessary and, if required, how to apply specific test procedures. Below 100 MHz, when SAR testing is required and the device is operating at close proximity to persons, information on device design, implementation, operating configurations, exposure conditions of users and bystanders are needed to determine the evaluation and testing requirements. In addition, the influence of nearby objects may also need consideration according to the wireless power transfer system implementation; for example, the effects of placing the device, its coils or radiating elements on or near metallic surfaces
- 6. According to April 2018 TCB Workshop, No need to report E-field measurements. Only H-field required.

#### 2.2. Limit

Limits for Maximum Permissible Exposure (MPE)/Controlled Exposure

| Frequency<br>Range(MHz) | Electric Field<br>Strength(V/m)             | Magnetic Field<br>Strength(A/m) | Power Density<br>(mW/cm²) | Averaging Time (minute) |  |  |
|-------------------------|---|---------------------------------|---------------------------|-------------------------|--|--|
|                         | Limits for Occupational/Controlled Exposure |                                 |                           |                         |  |  |
| 0.3-3.0                 | 614   | 1.63                            | *100                      | 6                       |  |  |
| 3.0-30                  | 1842/f                                      | 4.89/f                          | *900/f2                   | 6                       |  |  |
| 30-300                  | 61.4  | 0.163                           | 1.0                       | 6                       |  |  |
| 300-1,500               | /   | /                               | f/300                     | 6                       |  |  |
| 1,500-100,000           | /   | /                               | 5                         | 6                       |  |  |

Limits for Maximum Permissible Exposure (MPE)/Uncontrolled Exposure

| Frequency     | Electric Field                                      | Magnetic Field | Power Density         | Averaging Time |  |
|---------------|---|----------------|-----------------------|----------------|--|
| Range(MHz)    | Strength(V/m)                                       | Strength(A/m)  | (mW/cm <sup>2</sup> ) | (minute)       |  |
|               | Limits for General Population/Uncontrolled Exposure |                |                       |                |  |
| 0.3-1.34      | 614   | 1.63           | *100                  | 30             |  |
| 1.34-30       | 824/f   | 2.19/f         | *180/f2               | 30             |  |
| 30-300        | 27.5  | 0.073          | 0.2                   | 30             |  |
| 300-1,500     | /   | /              | f/1500                | 30             |  |
| 1,500-100,000 | /   | /              | 1.0                   | 30             |  |

F=frequency in MHz

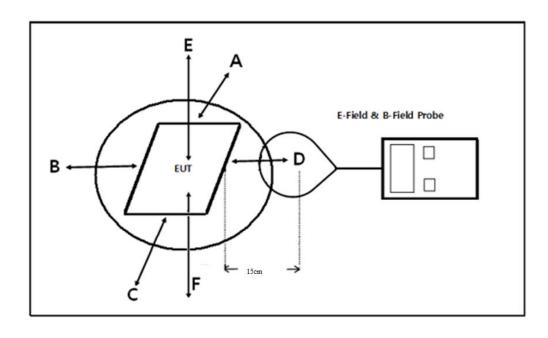
\*=Plane-wave equivalent power density

According to FCC KDB 680106 D01 Section 3. RF Exposure Requirements clause 3 the Emission-Limits in the frequency range from 100 KHz to 300 KHz should be assessed versus the limits at 300 KHz in Table 1 of CFR 47 – Section1.310 as following (measured distance shall be 15cm from the center of the probe to the edge of the device):

|                   | E-Field            | */*                  | B-Field |
|-------------------|--------------------|----------------------|---------|
| Frequency         | V/m                | A/m                  | uT      |
| 0.3 MHz – 3.0 MHz | 614                | 1.613                | 2.0     |
| 3.0 MHz – 30 MHz  | 824/f (=27.530MHz) | 2.19/f (=0.07330MHz) |         |

A KDB inquire was required to determine/confirm the applicable limits below 100 KHz.

#### 2.3. Test Setup Diagram



For mobile RF exposure condition, due to installation limitations no tests from the underside of the charging device are required.

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#### 2.4. Measurement Procedure

- a) The RF exposure test was performed on 360 degree turn table in anechoic chamber.
- b) The measurement probe was placed at test distance (15cm and 20cm) which is between the edges of the charger and the geometric center of probe.
- c) The turn table was rotated 360d degree to search of highest strength.
- d) The highest emission level was recorded and compared with limit as soon as measurement of each points
   (A, B, C, D, E) were completed.
- e) The EUT were measured according to the dictates of KDB 680106D01v03.

#### 2.5. Equipment Approval Considerations

The EUT does comply with item 5.2 of KDB 680106 D01v03 as follows table;

| Requirements of KDB 680106 D01   | Yes / No | Description   |
|--|----------|---|
| Power transfer frequency is less than 1 MHz  | Yes      | The device operate in the frequency range 110.0 KHz - 205 KHz   |
| Output power from each primary coil is less than or equal to 15 watts.   | Yes      | The maximum output power of the primary coil is 15W   |
| The transfer system includes only single primary and secondary coils. This includes charging systems that may have multiple primary coils and clients that are able to detect and allow coupling only between individual pairs of coils. | Yes      | The transfer system includes one primary coils.   |
| Client device is placed directly in contact with the transmitter.  | Yes      | Client device is placed directly in contact with the transmitter.   |
| Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).  | Yes      | Mobile exposure conditions only   |
| The aggregate H-field strengths at 15 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.  | Yes      | The EUT H-field strengths at 15 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit. |

In all other cases, unless excluded above, an RF exposure evaluation report must be reviewed and accepted through a KDB or PBA inquiry to enable authorization of the equipment. When evaluation is required to show compliance; for example, using field strength, power density, SAR measurements or computational modeling etc., the specific authorization requirements will be determined based on the results of the RF exposure evaluation.

#### 2.6. Symbols

For the purpose of the present document, the following symbols apply;

B: Magnetic flux

E: Filed strength

H: Magnetic field strength

EAVG = Spatial average of Filed strength

HAVG = Spatial average of Magnetic field strength

B1: Magnetic flux of wireless charge port 1 (Wireless load)

E1: Filed Strength of wireless charge port 1 (Wireless load)

H1: Magnetic field strength of wireless charge port 1 (Wireless load)

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#### 2.7. Test Results

The three charge ports are same for rated power, tested at charge together and measure each five points; Test mode: Normal Operation (Charging mode)

B-filed Strength at 15 cm from the edges surrounding the EUT and 15 cm above the top surface

|                | Chargin               |                              | Measured B-filed Strength Values (uT) |                       |                        |                        |                       | FCC E-                                  | FCC E-                              |
|----------------|-----------------------|------------------------------|---------------------------------------|-----------------------|------------------------|------------------------|-----------------------|---|-------------------------------------|
| Charge<br>Port | g<br>Battery<br>Level | Frequenc<br>y Range<br>(MHz) | Test<br>Position<br>A                 | Test<br>Position<br>B | Test<br>Positio<br>n C | Test<br>Positio<br>n D | Test<br>Position<br>E | Field<br>Strength<br>50% Limits<br>(uT) | Field<br>Strength<br>Limits<br>(uT) |
|                | 1%                    | 0.155                        | 0.038                                 | 0.037                 | 0.052                  | 0.054                  | 0.036                 | -                                       | -                                   |
| B1             | 50%                   | 0.155                        | 0.051                                 | 0.039                 | 0.055                  | 0.036                  | 0.039                 | 1                                       | -                                   |
|                | 99%                   | 0.155                        | 0.050                                 | 0.041                 | 0.053                  | 0.039                  | 0.050                 | -                                       | -                                   |

E-Filed Strength at 15 cm from the edges surrounding the EUT and 15 cm above the top surface

|                | Chargin               | Measured E-Field Strength Values (V/m) |                       |                       |                        |                        | FCC E-                | FCC E-                                   |                                      |
|----------------|-----------------------|--|-----------------------|-----------------------|------------------------|------------------------|-----------------------|--|--------------------------------------|
| Charge<br>Port | g<br>Battery<br>Level | Frequenc<br>y Range<br>(MHz)           | Test<br>Position<br>A | Test<br>Position<br>B | Test<br>Positio<br>n C | Test<br>Positio<br>n D | Test<br>Position<br>E | Field<br>Strength<br>50% Limits<br>(V/m) | Field<br>Strength<br>Limits<br>(V/m) |
|                | 1%                    | 0.155                                  | 11.388                | 11.015                | 15.617                 | 16.184                 | 10.784                | 307.0                                    | 614.0                                |
| E1             | 50%                   | 0.155                                  | 15.428                | 11.869                | 16.512                 | 10.861                 | 11.695                | 307.0                                    | 614.0                                |
|                | 99%                   | 0.155                                  | 15.177                | 12.333                | 15.829                 | 11.741                 | 14.890                | 307.0                                    | 614.0                                |

|   | n-riled Strength at 15 cm from the edges surrounding the EOT and 15 cm above the top surface |                                  |                                 |                        |  |                        |                        |                        |   |                             |
|---|--|----------------------------------|---------------------------------|------------------------|--|------------------------|------------------------|------------------------|---|-----------------------------|
| - |  |                                  |                                 | Meas                   | Measured H-Field Strength Values (A/m) |                        |                        |                        | FCC H-                                      | FCC H-                      |
|   | Charge<br>Port   | Chargi<br>ng<br>Battery<br>Level | Frequen<br>cy<br>Range<br>(MHz) | Test<br>Positio<br>n A | Test<br>Positio<br>n B                 | Test<br>Positio<br>n C | Test<br>Positio<br>n D | Test<br>Positio<br>n E | Field<br>Strength<br>50%<br>Limits<br>(A/m) | Field Strength Limits (A/m) |
|   |  | 1%                               | 0.155                           | 0.030                  | 0.029                                  | 0.042                  | 0.043                  | 0.029                  | 0.815                                       | 1.63                        |
|   | H1   | 50%                              | 0.155                           | 0.041                  | 0.032                                  | 0.044                  | 0.029                  | 0.031                  | 0.815                                       | 1.63                        |
|   |  | 99%                              | 0.155                           | 0.040                  | 0.033                                  | 0.042                  | 0.031                  | 0.040                  | 0.815                                       | 1.63                        |

B-filed Strength at 20cm from the top surface of the EUT

| Charge | Charging      | Frequency<br>Range | Measured B-filed<br>Strength Values (uT) | FCC H-Field<br>Strength 50% | FCC H-Field<br>Strength |
|--------|---------------|--------------------|--|-----------------------------|-------------------------|
| Port   | Battery Level | (MHz)              | Test Position E                          | Limits<br>(uT)              | Limits<br>(uT)          |
|        | 1%            | 0.155              | 0.045                                    | -                           | -                       |
| B1     | 50%           | 0.155              | 0.039                                    | -                           | -                       |
|        | 99%           | 0.155              | 0.045                                    | -                           | -                       |

H-Field Strength at 20cm from the top surface of the EUT

| Charge | Charging      | Frequency<br>Range | Measured H-Field<br>Strength Values (A/m) | FCC H-Field<br>Strength 50% | FCC H-Field<br>Strength |
|--------|---------------|--------------------|---|-----------------------------|-------------------------|
| Port   | Battery Level | (MHz)              | Test Position E                           | Limits<br>(A/m)             | Limits<br>(A/m)         |
|        | 1%            | 0.155              | 0.036                                     | 0.815                       | 1.63                    |
| H1     | 50%           | 0.155              | 0.031                                     | 0.815                       | 1.63                    |
|        | 99%           | 0.155              | 0.036                                     | 0.815                       | 1.63                    |

 $V/m=10^{(((dBuV/m)-120)/20}=10^{(((dBuA/m+51.5)-120)/20}=10^{(((20lg(A/m*10^6)+51.5)-120)/20}$ 

A/m = uT/1.25

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# 3. Test Setup Photos of the EUT



# 4. Conclusion

A minimum safety distance of at 15 cm surrounding the device and 20 cm above the top surface of the device is required when the device is charging a smart phone. The detected emissions with a distance of 15 cm surrounding the device and 20 cm above the top surface of the device are below the limitations according to FCC KDB 680106 D01 Section 3. RF Exposure Requirement Clause 3.

| Enc | l of | Report |  |
|-----|------|--------|--|
|-----|------|--------|--|