

RF EXPOSURE REPORT For FCC ID: 2AM29-W1

| Product Name: | Fast Wireless Charger |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Trademark: | MOJO, DIANZ* |
| Model Number: | W1 |
| Prepared For : | Shenzhen Hopewin Electronic Material Co.,Ltd. |
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| Test Date: | Jul. 02 - Jul. 12, 2018 |
| Date of Report : | Jul. 13, 2018 |
| Report No.: | BCTC-LH180701698-1E |



TEST RESULT CERTIFICATION

Applicant's name Shenzhen Hopewin Electronic Material Co.,Ltd.

New District, Shenzhen, Guangdong, China

Manufacture's Name...... Shenzhen Hopewin Electronic Material Co.,Ltd.

Address: Room O-P, Floor 4th, Block 9C, Baoneng Science Park, Longhua

New District, Shenzhen, Guangdong, China

Product description

Product name Fast Wireless Charger

Trademark:

MOJO DIANZ

Model and/or type reference: W1

Serial Model : N/A

Power Supply Input: DC 5V 2A

Output: DC 5V 1A

Model Difference : N/A

Standards FCC CFR 47 part1, 1.1307(b), 1.1310

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Pita RICTC APPROVED CONSON TESTING



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1. GENERAL INFORMATION

1.1. Independent Operation Mode

The basic operation mode is:

1.1.1. Charging

1.2. Test Supporting System

Adapter

Description : Adapter Model No. : BCTC-002

Power Input : AC100-240V~50/60Hz

Output: 5V=== 2A

DC Line: Unshielded, Detachable 1m

Mobile phone

Model No. : Apple Watch S/N: FHLPQLFJG9J8

Report No.: BCTC-LH180701698-1E



2.LIST OF TEST AND MEASUREMENT INSTRUMENTS

2.1. For conducted emission at the mains terminals test

| Equipment | Manufacturer Model No. Serial No. | | Last Cal. | Next Cal. | |
|-----------------------------|-----------------------------------|-------------------------|-----------|------------|------------|
| Exposure Level Tester | Narda | ELT-400 | N-0231 | Aug. 08,17 | Aug. 07,19 |
| Magnetic field probe 100cm2 | Narda | B-Field Probe 100cm2 | M0675 | Aug. 08,17 | Aug. 07,19 |
| 843 Chamber | ETS | 843 | 84301 | Aug. 27,17 | Aug. 26,19 |



3. METHOD OF MEASUREMENT

3. 1.Applicable 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 §2.1093 RF exposure is calculated. According KDB680106 D01v03: RF Exposure Wireless Charging Apps v02.

3. 2. Test Modes

| Test Modes keeping TX+Charging mode |
|-------------------------------------|
|-------------------------------------|

3. 3. MAXIMUM PERMISSIBLE EXPOSURE

Limit of Maximum Permissible Exposure

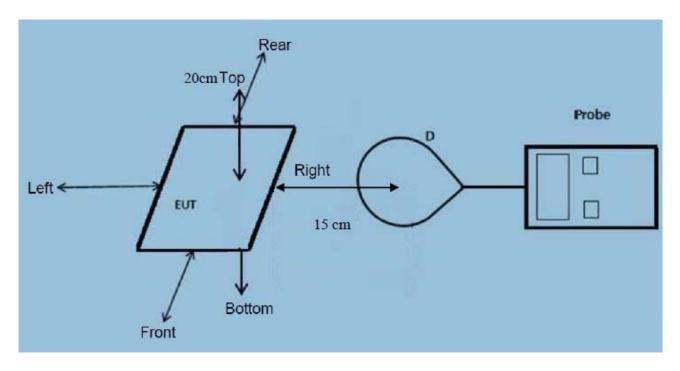
| Limits for Occupational / Controlled Exposure | | | | | | | | | |
|-----------------------------------------------|--------------------------------------|--------------------------------------|--------------------------------|-----------------------------------------------|--|--|--|--|--|
| Frequency Range (MHz) | Electric Field Strength (E) (V/m) | Magnetic Field Strength (H) (A/m) | Power Density (S) (mW/ cm²) | Averaging Time E ², H ² or S (minutes) | | | | | |
| 0.3-3.0 | 614 | 1.63 | (100)* | 6 | | | | | |
| 3.0-30 | 1842 / f | 4.89 / f | (900 / f)* | 6 | | | | | |
| 30-300 | 61.4 | 0.163 | 1.0 | 6 | | | | | |
| 300-1500 | | | F/300 | 6 | | | | | |
| 1500-100,000 | | | 5 | 6 | | | | | |

| Limits for General Population / Uncontrolled Exposure | | | | | | | | |
|-------------------------------------------------------|--------------------------------------|--------------------------------------|--------------------------------|-----------------------------------------------|--|--|--|--|
| Frequency Range (MHz) | Electric Field Strength (E) (V/m) | Magnetic Field Strength (H) (A/m) | Power Density (S) (mW/ cm²) | Averaging Time E ², H ² or S (minutes) | | | | |
| 0.3-1.34 | 614 | 1.63 | (100)* | 30 | | | | |
| 1.34-30 | 824/f | 2.19/f | (180 / f)* | 30 | | | | |
| 30-300 | 27.5 | 0.073 | 0.2 | 30 | | | | |
| 300-1500 | | _ | F/1500 | 30 | | | | |
| 1500-100,000 | | | 1 | 30 | | | | |



4. TEST RESULT

4.1. Conducted Emission at the Mains Terminals Test



Note: 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

Test 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) which is between the edge of the charger and the geometric centre 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.



4.2. Equipment Approval Considerations:

The EUT does comply with item 5(b) of KDB 680106 D01v03

- Power transfer frequency is less than 1MHz
 Yes, the device operate in the frequency range from 100 KHz to 205 KHz
- 2) Output power from each primary coil is less than or equal to 15 watts.

Yes, the maximum output power of the primary coil is 5W.

3) The transfer system includes only single primary and secondary coils. This includes charging systems that may have multiple primary coils and clients that able to detect and allow coupling onlybetween individual pair of coils.

Yes, the transfer system includes only single primary and secondary coils.

4) Client device is inserted in or placed directly in contact with the transmitter.

Yes, 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, the EUT is a Mobile Wireless Charger

6) 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 field strength levels are 50% x MPE limit.



4.3. E and H field Strength

(The worst data)

E-Field Strength at 15 cm surrounding the EUT and 20cm above the top surface of the EUT

| | E i leid Gaerigar de le em carrodianig ale Le i dia 200m above ale top carrace et ale 201 | | | | | | | | |
|---------|-------------------------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|--------|--------|
| Battery | Frequency | Test | Test | Test | Test | Test | Test | 50% | Limits |
| level | Range (MHz) | Position | Position | Position | Position | Position | Position | Limits | Test |
| | | А | В | С | D | Е | F | Test | (V/m) |
| | | | | | | | | (V/m) | |
| 1% | 0.110-0.205 | 0.62 | 0.53 | 0.52 | 0.60 | 0.56 | 0.62 | 307 | 614 |
| 50% | 0.110-0.205 | 0.51 | 0.45 | 0.46 | 0.55 | 0.49 | 0.60 | 307 | 614 |
| 99% | 0.110-0.205 | 0.57 | 0.49 | 0.47 | 0.57 | 0.46 | 0.58 | 307 | 614 |

H-Field Strength at 15 cm surrounding the EUT and 20cm above the top surface of the EUT

| Battery | Frequency | Test | Test | Test | Test | Test | Test | 50% | Limits |
|---------|-------------|----------|----------|----------|----------|----------|----------|--------|--------|
| level | Range (MHz) | Position | Position | Position | Position | Position | Position | Limits | Test |
| | | Α | В | С | D | Е | F | Test | (A/m) |
| | | | | | | | | (A/m) | |
| 1% | 0.110-0.205 | 0.14 | 0.16 | 0.18 | 0.18 | 0.16 | 0.16 | 0.815 | 1.63 |
| 50% | 0.110-0.205 | 0.13 | 0.16 | 0.16 | 0.16 | 0.14 | 0.14 | 0.815 | 1.63 |
| 99% | 0.110-0.205 | 0.12 | 0.15 | 0.14 | 0.14 | 0.13 | 0.15 | 0.815 | 1.63 |

EMF



5. Photographs of test set-up

