

Shenzhen Toby Technology Co., Ltd.

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RF Exposure Evaluation FCC ID: 2AQ5C-15642

1. Client Information

| Applicant | | Hypercel Corporation | | |
|---|--|---|--|--|
| Address : 28385 Constellation Rd., Valencia, CA 91355 U.S.A | | | | |
| Manufacturer | | Shenzhen Hypercel Technology Co., Ltd. | | |
| Address | | Room 1705, Esun Creative Technology Building, No. 22 Jiaan South Rd., Baoan District, Shenzhen City 518101, China | | |

2. General Description of EUT

| EUT Name | | Gravity Wireless Fast C | Gravity Wireless Fast Charge Mount | | | | | |
|--|--|--|------------------------------------|--|--|--|--|--|
| Model(s) | | 15642, 14110 | | | | | | |
| Sample ID | : | TBBJ-20211109-05_#1 | | | | | | |
| Model Difference | cuit diagrams are the same, the only ent model names. | | | | | | | |
| | | Operation Frequency: | 110KHz-205KHz | | | | | |
| Product Description | : | Modulation Type: | ASK | | | | | |
| Description | | Antenna: | Coil Antenna | | | | | |
| Power Supply | : | Input: 5V/2A,9V/2A,9V/3A,12V/1.5A Wireless Charge Output: 15W Max | | | | | | |
| Software Version | : | N/A | | | | | | |
| Hardware Version | : | N/A | | | | | | |
| Connecting I/O : Please refer to the User's Manual Port(S) : Please refer to the User's Manual | | | | | | | | |
| Accessories : HUAWEI MATE 40 PRO | | | | | | | | |

Note: More test information about the EUT please refer the RF Test Report.

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RF Exposure Considerations

1. Measuring Standard

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KDB 680106 D01 RF Exposure Wireless Charging App v03.

2. Requirements

According to the item 5.2 of KDB 680106 D01v03:

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

(1) Power transfer frequency is less than 1 MHz.

(2) Output power from each primary coil is less than or equal to 15 watts.

(3) 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.

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

(5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).

(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.

| Frequency range (MHz) | Electric field strength (V/m) | Magnetic field strength (A/m) | Power density (mW/cm ²) | Averaging time (minutes) |
|--------------------------|----------------------------------|----------------------------------|--|-----------------------------|
| | (A) Limits for Occ | cupational/Controlled Ex | posures | - |
| 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 | / | 1 | f/300 | 6 |
| 1500-100,000 | / | 1 | 5 | 6 |
| | (B) Limits for Genera | l Population/Uncontrolle | ed 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 | 1 | 1 | f/1500 | 30 |
| | 1 | | | 1 |

Limits For Maximum Permissible Exposure (MPE)

1500-100,000 F=frequency in MHz

*=Plane-wave equivalent power density

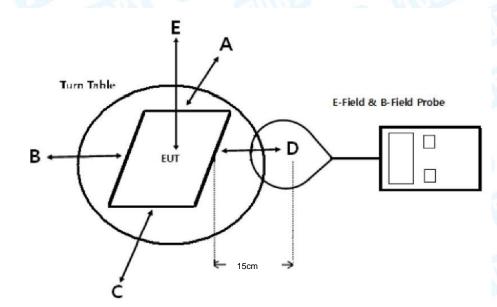
RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules. The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz:614V/m,1.63A/m).

1.0

30



3. Test Setup



Note: The aggregate H-field strengths at 15 cm surrounding the device and 20 cm above the top surface.

4.Test Procedure

1) The RF exposure test was performed in anechoic chamber.

2) The aggregate H-field strengths at 15 cm surrounding the device and 20 cm above the top surface.

3) The highest emission level was recorded and compared with limit as soon as measurement of each points (A, B, C, D, E) were completed.

4) The EUT was measured according to the dictates of KDB 680106 D01 v03.

Remark:

The EUT's test position A, B, C, D and E is valid for the E and H field measurements.

5. Test Equipment List

| Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Due Date |
|----------------------|--------------|-----------|------------|---------------|------------------|
| Magnetic field meter | NARDA | ELT-400 | EE030 | Sep. 10, 2021 | Sep. 09, 2022 |

6. Deviation From Test Standard

No deviation

7. Mode of operation during the test / Test peripherals used

| Test Modes: | | | | | | | | | |
|-------------|---|--------|------|--|--|--|--|--|--|
| TM1 | Power + EUT + Mobile Phone (Battery Status: <1%) | record | GN I | | | | | | |
| TM2 | Power + EUT + Mobile Phone (Battery Status: <50%) | record | V | | | | | | |
| TM3 | Power + EUT + Mobile Phone (Battery Status: <99%) | record | 1 | | | | | | |

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8. Test Result

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

| | Charging Battery Level | | Meas | Measured E-Field Strength Values (V/m) | | | | | E-Field |
|---|------------------------------|-----------|----------------|--|------------|----------|--------|-------|---------|
| 3 | | Frequency | | Te | Strength | Strength | | | |
| 8 | | Range | IHZ) A B C D E | E | 50% Limits | Limits | | | |
| - | Level | (IVITZ) | | D | C | D | E | (V/m) | (V/m) |
| - | 1% | 0.115 | 42.601 | 43.355 | 61.451 | 43.732 | 47.125 | 307.0 | 614.0 |
| | 50% | 0.115 | 46.748 | 42.978 | 49.387 | 47.125 | 42.978 | 307.0 | 614.0 |
| 2 | 99% | 0.115 | 61.074 | 49.387 | 42.978 | 34.684 | 41.847 | 307.0 | 614.0 |

Note: V/m= A/m *377

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

| | Charging | Frequene | Measured H-Field Strength Values (A/m) | | | | | H-Field | H-Field | | |
|---|---------------------|----------|--|----------|--------|--------|-------------|---------|---------|----------|----------|
| | Charging Battery | | | Frequenc | | | Test Positi | on | | Strength | Strength |
| | Level | unit | y Range | ^ | | E | 50% Limits | Limits | | | |
| | Level | | (MHz) | A | В | С | D | E | (A/m) | (A/m) | |
| | 1% | uT | 0.115 | 0.1413 | 0.1438 | 0.2038 | 0.145 | 0.1563 | | A \\] | |
| - | 1% | A/m | 0.115 | 0.113 | 0.115 | 0.163 | 0.116 | 0.125 | 0.815 | 1.63 | |
| | 50% | uT | 0.115 | 0.155 | 0.1425 | 0.1638 | 0.1563 | 0.1425 | | | |
| | 50% | A/m | 0.115 | 0.124 | 0.114 | 0.131 | 0.125 | 0.114 | 0.815 | 1.63 | |
| | 99% | uT | 0.115 | 0.2025 | 0.1638 | 0.1425 | 0.1150 | 0.1388 | 2 1 | | |
| | 99% | A/m | 0.115 | 0.162 | 0.131 | 0.114 | 0.092 | 0.111 | 0.815 | 1.63 | |

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

| | Charging Battery Unit | | Frequency | Measured H-Field Strength | FCC H-Field Strength | FCC H-Field Strength Limits | |
|---|--------------------------|-----|-----------|---------------------------|----------------------|--------------------------------|--|
| 2 | | | Range | Values (A/m) | 50% Limits | | |
| | Level | | (MHz) | Test Position E | (A/m) | (A/m) | |
| | 1% | uT | 0.115 | 0.1338 | | | |
| | 1% | A/m | 0.115 | 0.107 | 0.815 | 1.63 | |
| | 50% | uT | 0.115 | 0.1225 | | | |
| 4 | 50% | A/m | 0.115 | 0.098 | 0.815 | 1.63 | |
| Ì | 99% | uT | 0.115 | 0.1375 | | | |
| | 99% | A/m | 0.115 | 0.11 | 0.815 | 1.63 | |

Note: A/m=uT/1.25



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Test Set-up Photo



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