



Test Report No.: FM2404WDG0105



RF EXPOSURE TEST REPORT

| | |
|-----------|---|
| Applicant | Belkin International, Inc. |
| Address | 555 S. Aviation Blvd., Suite 180, El Segundo, CA 90245, USA |

| | |
|-------------------------------------|---|
| Manufacturer or Supplier | Belkin International, Inc. |
| Address | 555 S. Aviation Blvd., Suite 180, El Segundo, CA 90245, USA |
| Product | BoostCharge Magnetic Wireless Charging Pad With Qi2 |
| Brand Name | belkin |
| Model | WIA009 |
| Additional Model & Model Difference | N/A |
| Date of tests | Apr, 11, 2024 ~ May 17, 2024 |

The submitted sample of the above equipment has been tested according to the requirements of the following standard:

- 47 CFR PART 1, Subpart I, Section 1.1310
- KDB 680106 D01

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

| | |
|---|--|
| Tested by Eric Fang Project Engineer / EMC Department | Approved by Glyn He Assistant Manager/ EMC Department |
|  |  Date: May 21, 2024 |

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Test Report No.: FM2404WDG0105

RELEASE CONTROL RECORD

| ISSUE NO. | REASON FOR CHANGE | DATE ISSUED |
|---------------|-------------------|--------------|
| FM2404WDG0105 | Original release | May 21, 2024 |

1. GENERAL INFORMATION

1.1. GENERAL DESCRIPTION OF EUT

| | |
|----------------------------------|---|
| FCC ID | K7SWIA009 |
| PRODUCT | BoostCharge Magnetic Wireless Charging Pad With Qi2 |
| MODEL NO. | WIA009 |
| ADDITIONAL MODEL | N/A |
| POWER SUPPLY | AC 120V 60Hz |
| MODULATION TECHNOLOGY | FSK |
| OPERATING FREQUENCY RANGE | 127.7kHz & 360KHz |
| ANTENNA TYPE | Coil Antenna |
| I/O PORTS | Refer to user's manual |
| CABLE SUPPLIED | See note 4 |

NOTES:

- For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- For the test results, the EUT had been tested with all conditions, but only the worst case was shown in test report.
- Please refer to the EUT photo document (Reference No.: 2404WDG0105) for detailed product photo.
- Product cable information as follows:

| ID | Descriptions | Qty. | Length (m) | Shielding (Y/N) | Cores (Qty.) | Remark |
|----|----------------------|------|------------|-----------------|--------------|-----------------|
| 1 | USB-C to USB-C cable | 1 | 1.5 | Y | 0 | UTC-C-5FT-WH-01 |
| | USB-C to USB-C cable | 1 | 1.5 | Y | 0 | UTC-C-5FT-BK-01 |

Remark: The cable comes in two colors: black and white.

- Adapter information as follows:

| | |
|---|---|
| 20W USB-C PD Wall Charger With PPS | |
| MODEL NO.: | A784-120167C-US1 |
| BRAND NAME: | N/A |
| INPUT: | 100-240V~ 50/60Hz max. 0.5A |
| OUTPUT: | 5.0V/3.0A, 9.0V/2.23A, 12.0V/1.67A 3.3-5.9V/3.0A 17.7W MAX 3.3-11.0V/2.2A 20.0W MAX |



2. RF EXPOSURE MEASUREMENT

2.1 LIMITS

§ 1.1310 The criteria listed in table 1 shall be used to evaluate the environmental impact of human exposure to radiofrequency(RF) radiation as specified in § 1.1307(b), except in the case of portable devices which shall be evaluated according to the provisions of § 2.1093 of this chapter.

TABLE 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) |
|--|-------------------------------|-------------------------------|-------------------------------------|--------------------------|
| (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

NOTE 1 TO TABLE 1: Occupational/controlled 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. Limits for occupational/controlled exposure also apply in situations when an individual is transient through a location where occupational/controlled limits apply provided he or she is made aware of the potential for exposure.

NOTE 2 TO TABLE 1: General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or can not exercise control over their exposure.

Reference KDB 680106 D01 RF Exposure Wireless Charging App v03

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.

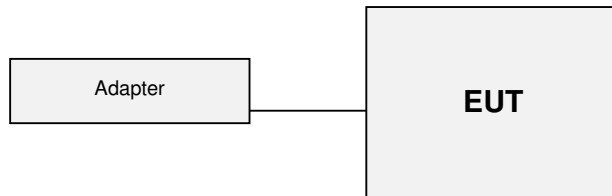
2.2 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested with associated equipment below

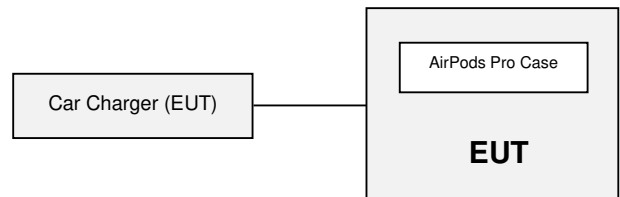
| NO. | PRODUCT | BRAND | MODEL NO. | SERIAL NO. | FCC ID |
|-----|---------------------------|-------|-----------|--------------|------------|
| 1 | iPhone 15 Pro | Apple | MTQ63CH/A | F43Q7N4Q4H | BCG-E8438A |
| 2 | AirPods Pro Charging Case | Apple | A2190 | GXDGFE8W1059 | N/A |

2.3 CONFIGURATION OF SYSTEM UNDER TEST

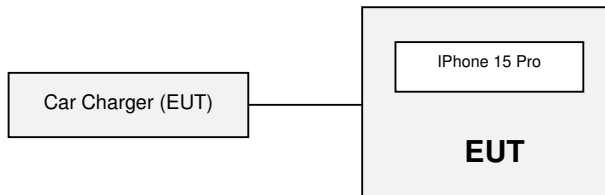
Standby



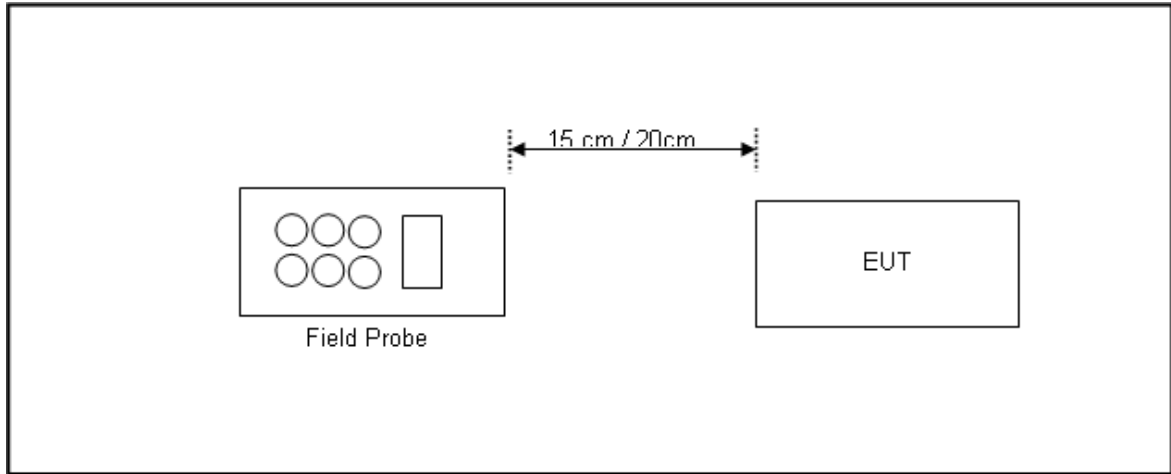
Charging Mode with AirPods Pro Case



Charging Mode with iPhone 15 Pro



2.4 TEST SETUP FOR WPC



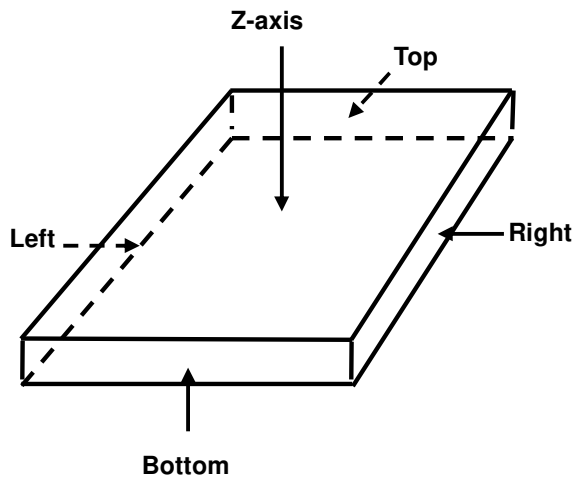
Note: Measurements should be made from all sides and the top of the primary/client pair, with the 15 cm or 20 cm measured from the center of the probe(s) to the edge of the device.

2.5 EQUIPMENTS USED DURING TEST

| Equipment | Manufacturer | Model No. | Serial No. | Next Cal. |
|--|--------------|-----------|------------|-------------|
| E-Field probe | Narda | NBM-520 | 2403/01B | Apr. 05, 25 |
| Electric and Magnetic Field Probe-Analyzer | Narda | EHP-200A | 180ZX10216 | Feb. 19, 25 |
| 3m Fully Anechoic Chamber | Chance Most | 8m*4m*4m | D3040011DG | May 27, 25 |
| Test Software | Narda | EHP200-TS | V1.94 | N/A |

NOTE: 1. The test was performed in RS chamber.
2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.

2.6 TEST POINT DESCRIPTION



2.7 TEST RESULTS

Mode 1 USB-C port input + Standby

| E-Field Measurement | | | | | |
|---------------------|-----------|-----------|-----------|-----------|-----------|
| Distance | 15cm | | | | 20cm |
| EUT Side | Left | Right | Top | Bottom | Z-axis |
| Max E-field (V/m) | 0.1406 | 0.1148 | 0.1406 | 0.1307 | 0.1539 |
| Limit (V/m) | 614 | 614 | 614 | 614 | 614 |
| Margin (V/m) | -613.8594 | -613.8852 | -613.8594 | -613.8693 | -613.8461 |
| 50% Limit (V/m) | 307 | 307 | 307 | 307 | 307 |
| 50% Margin (V/m) | -306.8594 | -306.8852 | -306.8594 | -306.8693 | -306.8461 |

| H-Field Measurement | | | | | |
|---------------------|--------|--------|--------|--------|--------|
| Distance | 15cm | | | | 20cm |
| EUT Side | Left | Right | Top | Bottom | Z-axis |
| Max H-field (A/m) | 0.020 | 0.018 | 0.022 | 0.019 | 0.024 |
| Limit (A/m) | 1.63 | 1.63 | 1.63 | 1.63 | 1.63 |
| Margin (A/m) | -1.610 | -1.612 | -1.608 | -1.611 | -1.606 |
| 50% Limit (A/m) | 0.815 | 0.815 | 0.815 | 0.815 | 0.815 |
| 50% Margin (A/m) | -0.795 | -0.797 | -0.793 | -0.796 | -0.791 |

Mode 2 EUT USB-C port input + AirPods Pro Case Charging

| E-Field Measurement | | | | | |
|---------------------|-----------|-----------|-----------|-----------|-----------|
| Distance | 15cm | | | | 20cm |
| EUT Side | Left | Right | Top | Bottom | Z-axis |
| Max E-field (V/m) | 0.2406 | 0.2474 | 0.2406 | 0.2406 | 0.2799 |
| Limit (V/m) | 614 | 614 | 614 | 614 | 614 |
| Margin (V/m) | -613.7594 | -613.7526 | -613.7594 | -613.7594 | -613.7201 |
| 50% Limit (V/m) | 307 | 307 | 307 | 307 | 307 |
| 50% Margin (V/m) | -306.7594 | -306.7526 | -306.7594 | -306.7594 | -306.7201 |

| H-Field Measurement | | | | | |
|---------------------|--------|--------|--------|--------|--------|
| Distance | 15cm | | | | 20cm |
| EUT Side | Left | Right | Top | Bottom | Z-axis |
| Max H-field (A/m) | 0.0260 | 0.0221 | 0.0358 | 0.0398 | 0.1595 |
| Limit (A/m) | 1.63 | 1.63 | 1.63 | 1.63 | 1.63 |
| Margin (A/m) | -1.604 | -1.608 | -1.594 | -1.590 | -1.471 |
| 50% Limit (A/m) | 0.815 | 0.815 | 0.815 | 0.815 | 0.815 |
| 50% Margin (A/m) | -0.789 | -0.793 | -0.779 | -0.775 | -0.656 |



Mode 3 EUT USB-C port input + iPhone 15 Pro 10% Charging

| E-Field Measurement | | | | | |
|---------------------|-----------|-----------|-----------|-----------|-----------|
| Distance | 15cm | | | | 20cm |
| EUT Side | Left | Right | Top | Bottom | Z-axis |
| Max E-field (V/m) | 0.3818 | 0.3956 | 0.3281 | 0.3977 | 0.3678 |
| Limit (V/m) | 614 | 614 | 614 | 614 | 614 |
| Margin (V/m) | -613.6182 | -613.6044 | -613.6719 | -613.6023 | -613.6322 |
| 50% Limit (V/m) | 307 | 307 | 307 | 307 | 307 |
| 50% Margin (V/m) | -306.6182 | -306.6044 | -306.6719 | -306.6023 | -306.6322 |

| H-Field Measurement | | | | | |
|---------------------|--------|--------|--------|--------|--------|
| Distance | 15cm | | | | 20cm |
| EUT Side | Left | Right | Top | Bottom | Z-axis |
| Max H-field (A/m) | 0.0221 | 0.0236 | 0.0236 | 0.0200 | 0.0200 |
| Limit (A/m) | 1.63 | 1.63 | 1.63 | 1.63 | 1.63 |
| Margin (A/m) | -1.608 | -1.606 | -1.606 | -1.610 | -1.610 |
| 50% Limit (A/m) | 0.815 | 0.815 | 0.815 | 0.815 | 0.815 |
| 50% Margin (A/m) | -0.793 | -0.791 | -0.791 | -0.795 | -0.795 |

Mode 4 EUT USB-C port input + iPhone 15 Pro 90% Charging

| E-Field Measurement | | | | | |
|---------------------|-----------|-----------|-----------|-----------|-----------|
| Distance | 15cm | | | | 20cm |
| EUT Side | Left | Right | Top | Bottom | Z-axis |
| Max E-field (V/m) | 0.2969 | 0.2973 | 0.2834 | 0.3727 | 0.3074 |
| Limit (V/m) | 614 | 614 | 614 | 614 | 614 |
| Margin (V/m) | -613.7031 | -613.7027 | -613.7166 | -613.6273 | -613.6926 |
| 50% Limit (V/m) | 307 | 307 | 307 | 307 | 307 |
| 50% Margin (V/m) | -306.7031 | -306.7027 | -306.7166 | -306.6273 | -306.6926 |

| H-Field Measurement | | | | | |
|---------------------|--------|--------|--------|--------|--------|
| Distance | 15cm | | | | 20cm |
| EUT Side | Left | Right | Top | Bottom | Z-axis |
| Max H-field (A/m) | 0.0205 | 0.0182 | 0.0221 | 0.0236 | 0.0188 |
| Limit (A/m) | 1.63 | 1.63 | 1.63 | 1.63 | 1.63 |
| Margin (A/m) | -1.610 | -1.612 | -1.608 | -1.606 | -1.611 |
| 50% Limit (A/m) | 0.815 | 0.815 | 0.815 | 0.815 | 0.815 |
| 50% Margin (A/m) | -0.795 | -0.797 | -0.793 | -0.791 | -0.796 |



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3. PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).

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