

RF Exposure Test Report

Report No.: MFBGMK-WTW-P24040513

FCC ID: K7SWIB007

Test Model: WIB007

Received Date: 2024/5/7

Test Date: 2024/6/6

Issued Date: 2024/6/6

Applicant: Belkin International, Inc.

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
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**FCC Registration /
Designation Number:** 198487 / TW2021



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Release Control Record

Issue No.	Description	Date Issued
MFBGMK-WTW-P24040513	Original release	2024/6/6

1 Certificate of Conformity

Product: BoostCharge Magnetic Wireless Charging Stand With Qi2

Brand: belkin

Test Model: WIB007

Sample Status: PVT Sample

Applicant: Belkin International, Inc.

Test Date: 2024/6/6

Standards: FCC Part 2 (Section 2.1091)

References Test Guidance: KDB 680106 D01 Wireless Power Transfer v04

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

Prepared by :

Annie Chang

Date:

2024/6/6

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Approved by :

Jeremy Lin

Date:

2024/6/6

Jeremy Lin / Project Engineer

2 General Information

2.1 General Description of EUT

Product	BoostCharge Magnetic Wireless Charging Stand With Qi2
Brand	belkin
Test Model	WIB007
Sample Status	Engineering sample
Power Supply Rating	120Vac
Modulation Type	FSK
Operating Frequency	127.7kHz & 360kHz
Antenna Type	Coil antenna
Field Strength	-10.0dBuV/m (@300m) (AV)
Dimensions	12.12cm ²
Accessory Device	Refer to note as below
Data Cable Supplied	N/A
Maximum Power Output from the Charging Coil	15W

Note:

1. The EUT has following accessories:

Item	Brand	Model No.	Spec.
AC Adapter	belkin	A784-120167C-US1	AC Input: 100-240V, 50/60Hz, 0.5A DC Output: 5V/3A; 9V/2.23A; 12V/1.67A; 5-11V/2.2A; 20.0W
Type C to C cable	-	-	Shielded 1.5m

2. Due to radiated measurements are made and the antenna gain is already accounted for this device, so provide an antenna datasheet and/or antenna measurement report is not required. The antenna dimensions and pictures (include antenna wire length if have) are stated in EUT photo exhibit.

3. The EUT has been pre-tested under following test modes.

Pre-Scan:	EUT can be used in the following ways: Standing/ lie flat Charging . Pre-scan these ways and find the worst case as a representative test condition.
Worst Case:	Standing is Worst Condition

4. The worst-case charging rate (i.e. max load) was determined to be when the EUT is charging the client device at 1% battery charge.

5. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

2.2 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Specification	Expanded Uncertainty (k=2)(±)
RF Exposure	1 Hz ~ 400 kHz	E = 0.14 dB , H = 1.81 dB

3 RF Exposure

3.1 Description of Support Units

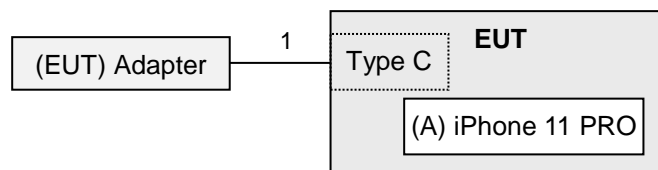
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	iPhone 11 PRO	APPLE	A2215	N/A	N/A	Supplied by applicant
B	iPhone 15 PRO	APPLE	A3102	N/A	N/A	Supplied by applicant

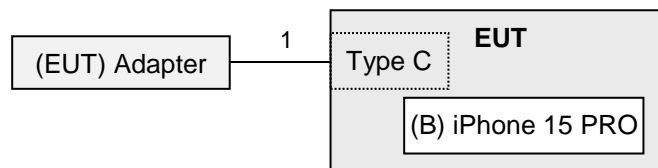
ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	Type C to C cable	1	1.5	Y	0	Supplied by applicant

3.1.1 Configuration of System Under Test

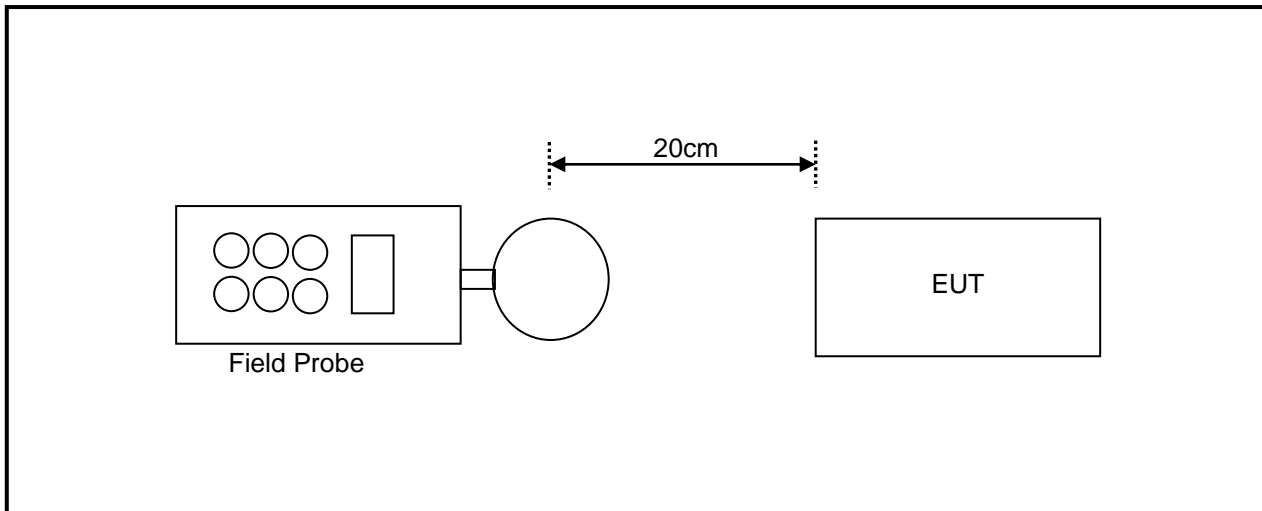
Operating mode with iPhone 11 PRO (127.7kHz)



Operating mode with iPhone 15 PRO (360kHz)



3.2 Test Setup



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

3.3 Test Instruments

Description	Brand	Model No.	Calibrated Date	Calibrated Until
EM Field Meter Wavecontrol	SMP2 dual	20SN1411	2024/3/28	2025/3/27
EM Field Probe Wavecontrol	WP400	20WP100708	2024/3/28	2025/3/27

- NOTE:**
1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
 2. The test was performed in Linkou RF Chamber
 3. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

3.4 Limits for Maximum Permissible Exposure (MPE)

§ 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.

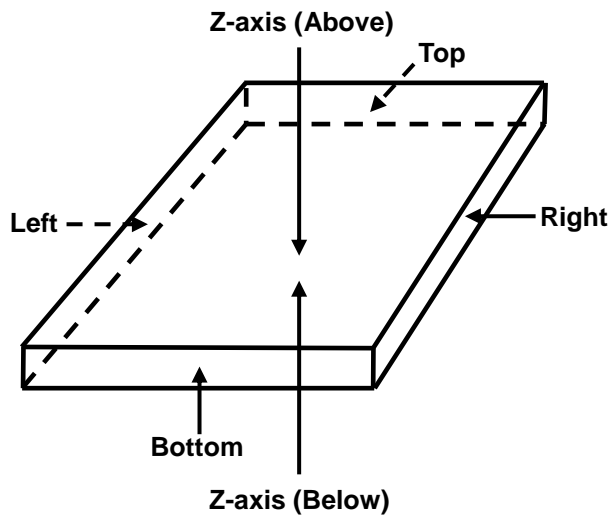
680106 D01 Wireless Power Transfer v04 as reproduced below:

3.2 Equipment Authorization Procedures for Devices Operating at Frequencies Below 4 MHz

The RF exposure limits, as set forth in § 1.1310, do not cover the frequency range below 100 kHz for Specific Absorption Rate (SAR) and below 300 kHz for Maximum Permitted Exposure (MPE). In addition, present limitations of RF exposure evaluation systems prevent an accurate evaluation of SAR below 4 MHz. For these reasons, a specific MPE-based RF Exposure compliance procedure for devices operating in the aforementioned low-frequency ranges has been set in place. Accordingly, for § 2.1091-Mobile devices, the MPE limits between 100 kHz to 300 kHz are to be considered the same as those at 300 kHz in Table 1 of § 1.1310, that is, 614 V/m and 1.63 A/m, for the electric field and magnetic field, respectively.

3.5 Test Point Description

The aggregate H-fields strengths at 20 cm above the top surface from all simultaneous transmitting coils.



4 Measurement Result

Operating mode with iPhone 11 PRO (127.7kHz)_battery 1% Charge

E-Field Measurement						
Distance	20cm					
EUT Side	Left	Right	Top	Bottom	Z-axis (Above)	Z-axis (Below)
Max E-field (V/m)	27.5400	19.6800	21.9500	17.8900	26.6900	39.6800
Limit (V/m)	614	614	614	614	614	614
Margin (V/m)	-612.2500	-613.0100	-612.8200	-612.9300	-612.2200	-612.2200

H-Field Measurement						
Distance	20cm					
EUT Side	Left	Right	Top	Bottom	Z-axis (Above)	Z-axis (Below)
Max H-field (uT)	0.0700	0.0700	0.0800	0.0800	0.0900	0.0800
Max H-field (A/m)	0.0560	0.0560	0.0640	0.0640	0.0720	0.0640
Limit (A/m)	1.63	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.6140	-1.6220	-1.6300	-1.6220	-1.5580	-1.5580

Measurements was made from all sides and the top of the primary/client pair, with the 20 cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.

Operating mode with iPhone 15 PRO (360kHz)_battery 1% Charge

E-Field Measurement						
Distance	20cm					
EUT Side	Left	Right	Top	Bottom	Z-axis (Above)	Z-axis (Below)
Max E-field (V/m)	22.3300	29.1100	24.5400	21.0200	19.3000	55.6700
Limit (V/m)	614	614	614	614	614	614
Margin (V/m)	-612.2500	-613.0100	-612.8200	-612.9300	-612.2200	-612.2200

H-Field Measurement						
Distance	20cm					
EUT Side	Left	Right	Top	Bottom	Z-axis (Above)	Z-axis (Below)
Max H-field (uT)	0.0700	0.0700	0.0800	0.0800	0.0900	0.0800
Max H-field (A/m)	0.0560	0.0560	0.0640	0.0640	0.0720	0.0640
Limit (A/m)	1.63	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.6140	-1.6220	-1.6300	-1.6220	-1.5580	-1.5580

Measurements was made from all sides and the top of the primary/client pair, with the 20 cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.

5 Photographs of the Test Configuration

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

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