

RF EXPOSURE TEST REPORT

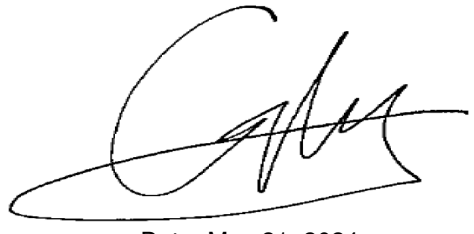
Applicant	Belkin International, Inc.
Address	555 S. Aviation Blvd., Suite 180, El Segundo, CA 90245, USA

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

This report is governed by, and incorporates by reference, the Conditions of Testing as posted at the date of issuance of this report at <http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions/> and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. Statements of conformity are based on simple acceptance criteria without taking measurement uncertainty into account, unless otherwise requested in writing. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

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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.

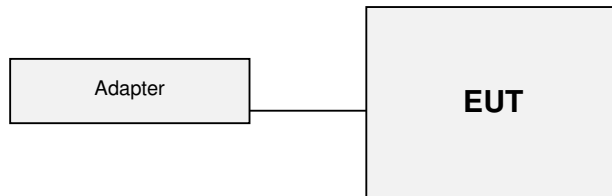
2.2 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested with associated equipment below

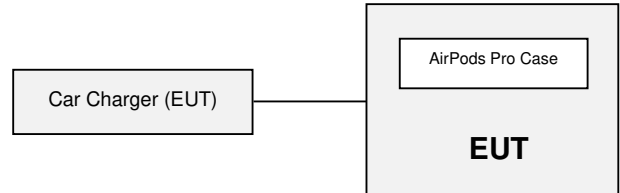
NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	iPhone 15 Pro	Apple	MTQ63CH/A	F43Q7N4Q4H	BCG-E8438A
2	AirPods Pro Charging Case	Apple	A2190	GXDGF8W1059	N/A

2.3 CONFIGURATION OF SYSTEM UNDER TEST

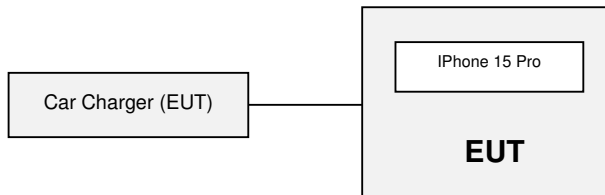
Standby



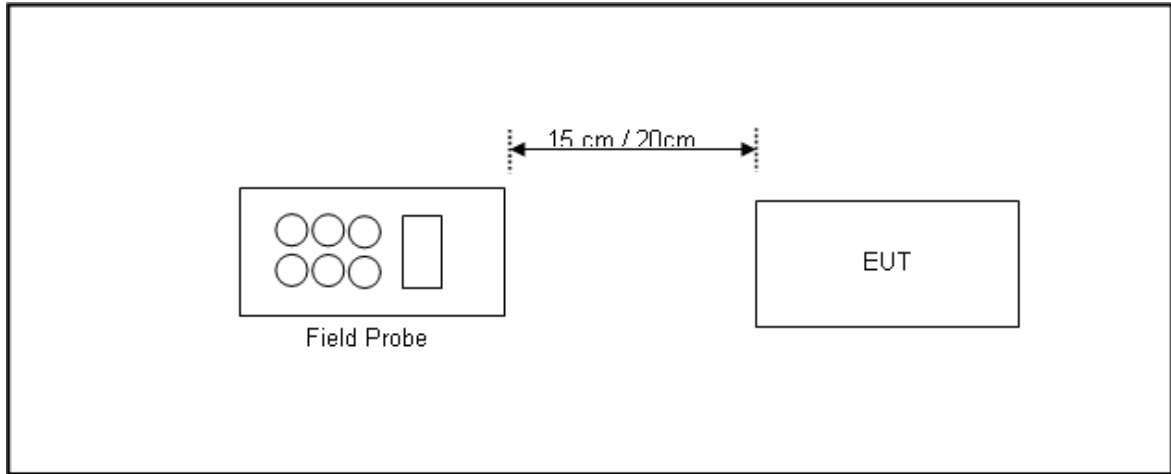
Charging Mode with AirPods Pro Case



Charging Mode with iPhone 15 Pro



2.4 TEST SETUP FOR WPC



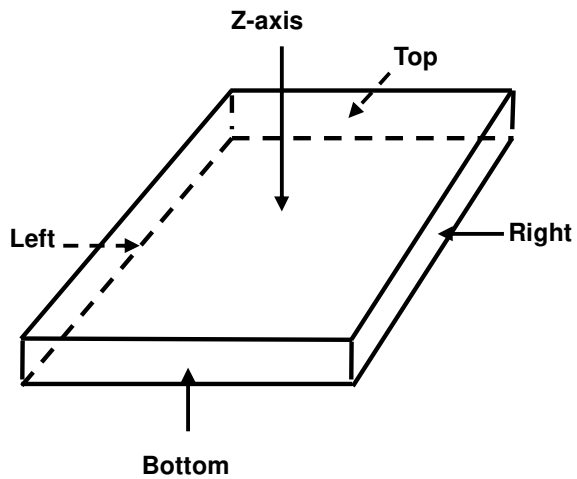
Note: Measurements should be made from all sides and the top of the primary/client pair, with the 15 cm or 20 cm measured from the center of the probe(s) to the edge of the device.

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



Test Report No.: FM2404WDG0105

3. PHOTOGRAPHS OF THE TEST CONFIGURATION

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

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