

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 Wireless Charging Pad
Brand Name	belkin
Model	WIA012
Additional Model & Model Difference	N/A
Date of tests	Jan. 14, 2025

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

Prepared by Eric Fang Project Engineer / EMC Department	Approved by Glyn He Assistant Manager/ EMC Department
	 Date: Feb. 24, 2025

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Test Report No.: FM2501WDG0019

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FM2501WDG0019	Original release	Feb. 24, 2025

1. GENERAL INFORMATION

1.1. GENERAL DESCRIPTION OF EUT

FCC ID	K7SWIA012
PRODUCT	BoostCharge Wireless Charging Pad
MODEL NO.	WIA012
ADDITIONAL MODEL	N/A
POWER SUPPLY	Input: 12Vdc 1.67A From Adapter
MODULATION TECHNOLOGY	FSK
OPERATING FREQUENCY RANGE	15W Qi1.3.3 Charging Coil (BPP): 111KHz ~ 148KHz
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.: 2412WDG0137-3) 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 PVC CABLE	1	1.5	Y	0	N/A

- Adapter information as follows:

USB-C Power Adapter		USB-C Power Adapter	
MODEL NO.:	CYPD20US	MODEL NO.:	A784-120167C-US1
BRAND NAME:	belkin	BRAND NAME:	belkin
INPUT:	100-240Vac 50-60Hz 0.5A	INPUT:	100-240Vac 50-60Hz 0.5A
OUTPUT:	5.0Vdc/3.0A, 9Vdc/2.22A,12Vdc/1.67A 5-11Vdc/1.8A	OUTPUT:	5.0Vdc/3.0A, 9Vdc/2.23A, 12Vdc/1.67A 5-11Vdc/2.2A 20.0W MAX
Manufacturer	Chenyang	Manufacturer	Aohai

Note: Adapter difference test see FCC 15B report: FS2501WDG0019. This report use the adapter A784-120167C-US1.

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.

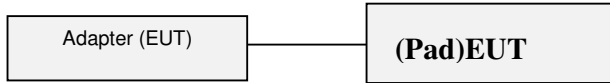
2.2 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested with associated equipment below

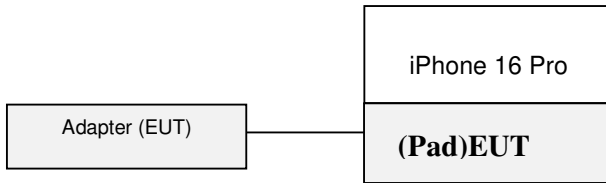
ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	iPhone 16 Pro(1#)	Apple	A3083 (MYM93LL/A)	HY9H79YM6Y	BCG-E8666A	BV Lab.

2.3 CONFIGURATION OF SYSTEM UNDER TEST

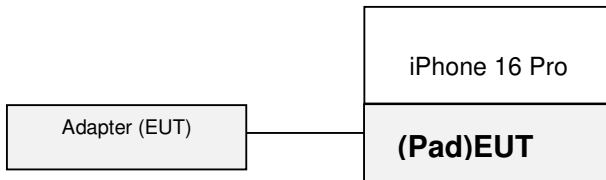
Mode 1: EUT Standby



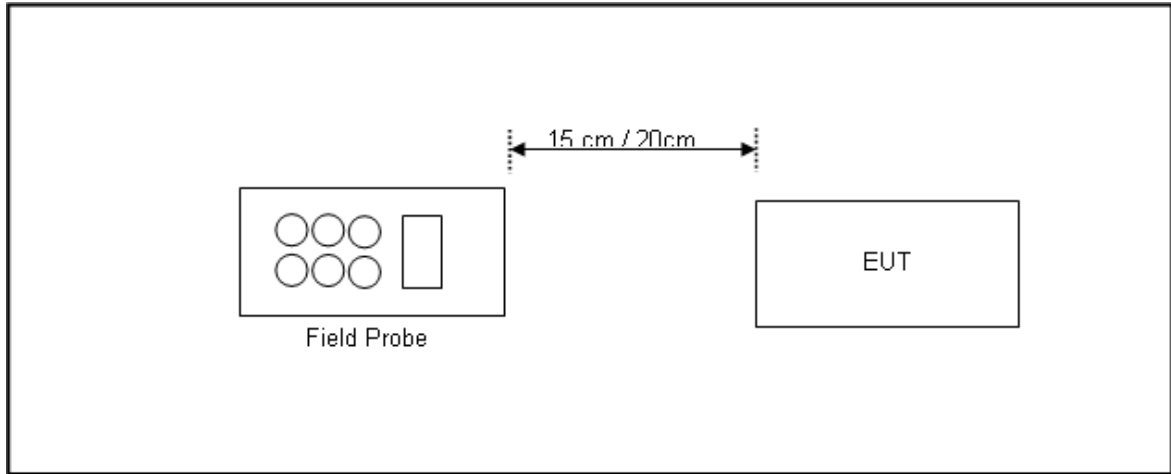
Mode 2: EUT Mode with iPhone 16 Pro 10% Battery Charging



Mode 3: EUT Mode with iPhone 16 Pro 90% Battery Charging



2.4 TEST SETUP FOR WPC



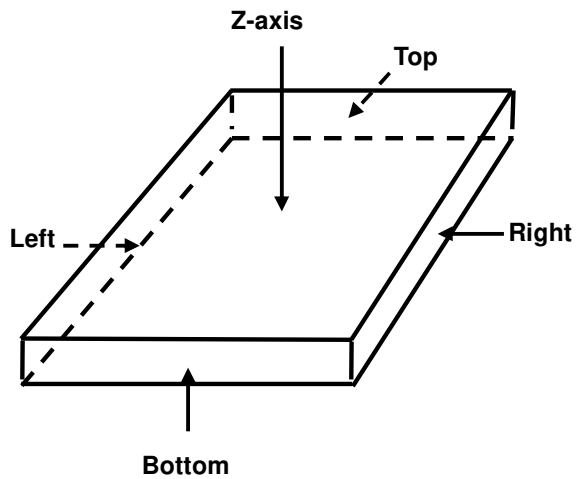
Note: Measurements should be made from all sides and the top of the primary/client pair, with the 15 cm or 20 cm measured from the center of the probe(s) to the edge of the device.

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. Equipment are calibrated by calibration laboratory accredited to ISO/IEC 17025 by a mutually recognized Accreditation and all tests are conducted within a valid calibration cycle.

2.6 TEST POINT DESCRIPTION



2.7 TEST RESULTS

Mode1 USB-C port input + Standby

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	0.8657	1.0936	0.9338	0.0616	1.3063
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-613.1343	-612.9064	-613.0662	-613.9384	-612.6937
50% Limit (V/m)	307	307	307	307	307
50% Margin (V/m)	-306.1343	-305.9064	-306.0662	-306.9384	-305.6937

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (A/m)	0.0920	0.0916	0.0728	0.0948	0.4181
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.538	-1.538	-1.557	-1.535	-1.212
50% Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50% Margin (A/m)	-0.723	-0.723	-0.742	-0.720	-0.397

Measurements was 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. The highest emission level was recorded.

Mode2 EUT USB-C port input + iPhone 16 Pro 10% Battery Charging

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	1.8759	2.2884	1.8855	1.4305	2.3220
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-612.1241	-611.7116	-612.1145	-612.5695	-611.678
50% Limit (V/m)	307	307	307	307	307
50% Margin (V/m)	-305.1241	-304.7116	-305.1145	-305.5695	-304.678

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (A/m)	0.0714	0.0945	0.1071	0.0753	0.0730
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.559	-1.536	-1.523	-1.555	-1.557
50% Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50% Margin (A/m)	-0.744	-0.721	-0.708	-0.740	-0.742

Measurements was 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. The highest emission level was recorded.

Mode3 EUT USB-C port input + iPhone 16 Pro 90% Charging

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	1.4719	1.9969	1.8517	1.1090	2.2311
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-612.5281	-612.0031	-612.1483	-612.891	-611.7689
50% Limit (V/m)	307	307	307	307	307
50% Margin (V/m)	-305.5281	-305.0031	-305.1483	-305.891	-304.7689

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (A/m)	0.0492	0.1373	0.1032	0.0660	0.0784
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.581	-1.493	-1.527	-1.564	-1.552
50% Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50% Margin (A/m)	-0.766	-0.678	-0.712	-0.749	-0.737

Measurements was 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. The highest emission level was recorded.



Test Report No.: FM2501WDG0019

3. PHOTOGRAPHS OF THE TEST CONFIGURATION

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

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