

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 Pro Magnetic Wireless Charging Pad
Brand Name	belkin
Model	WIA011
Additional Model & Model Difference	N/A
Date of tests	Dec. 20, 2024 ~ Jan. 10, 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: Jan. 20, 2025

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Test Report No.: FM2412WDG0137

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FM2412WDG0137	Original release	Jan. 20, 2025

1. GENERAL INFORMATION

1.1. GENERAL DESCRIPTION OF EUT

FCC ID	K7SWIA011
PRODUCT	BoostCharge Pro Magnetic Wireless Charging Pad
MODEL NO.	WIA011
ADDITIONAL MODEL	N/A
POWER SUPPLY	Input: 9Vdc 2.22A From Adapter
MODULATION TECHNOLOGY	FSK
OPERATING FREQUENCY RANGE	15W Qi2 Charging Coil (MPP):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.: 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 INTEGRATED WIRELESS CHARGING COIL CABLE	1	2.0	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:	5V=3A, 9V=2.22A, 12V=1.67A, PPS: 5V-11V=1.8A	OUTPUT:	5V=3A, 9V=2.23A, 12V=1.67A, PPS: 5V-11V=2.2A 20.0W MAX
Manufacturer	Chenyang	Manufacturer	Aohai

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.

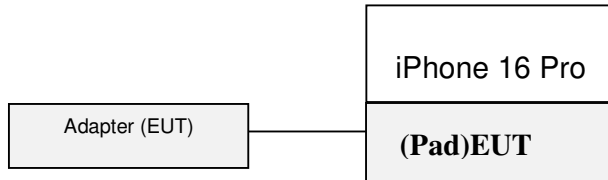
2.2 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested with associated equipment below

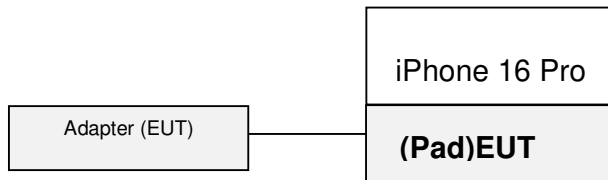
ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	iPhone 16 Pro(1#)	Apple	A3083 (MYM93LL/A)	HY9H79YM6Y	BCG-E8666A	BV Lab.

2.3 CONFIGURATION OF SYSTEM UNDER TEST

Mode 1: EUT Mode with iPhone 16 Pro 10% Battery Charging



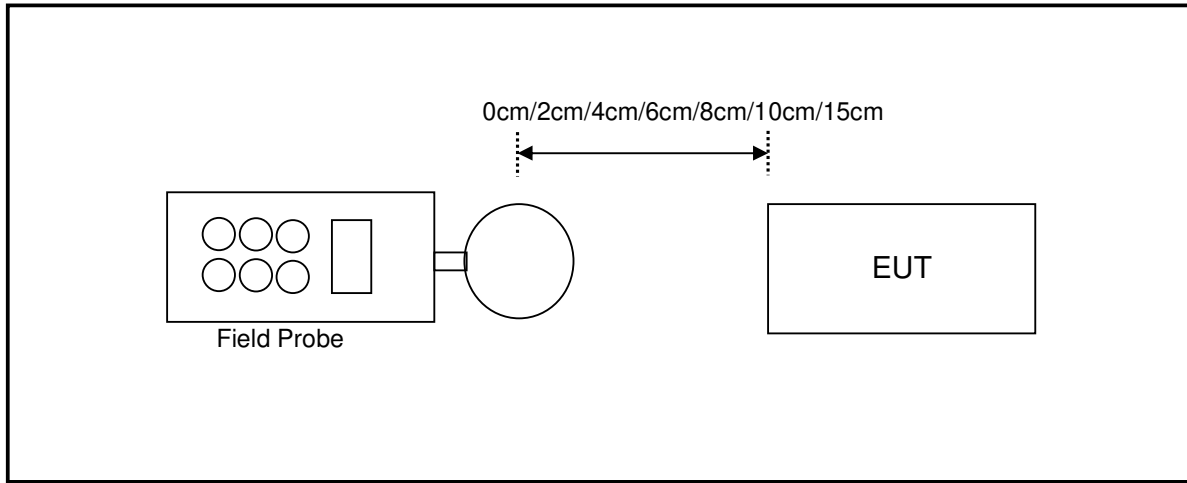
Mode 2: EUT Mode with iPhone 16 Pro 90% Battery Charging



When the maximum power reach 15W for iPhone 16 Pro, the transmission frequency is 360.0KHz, when the maximum power is only 5W/7.5W for AirPods Pro Case/ iPhone 11 Pro, the transmission frequency is 127.7KHz.

the worst test mode was charging for iPhone 16 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 0cm, 2 cm, 4cm, 6cm, 8cm, 10cm or 15cm, measured from the center of the probe(s) to the edge of the device.

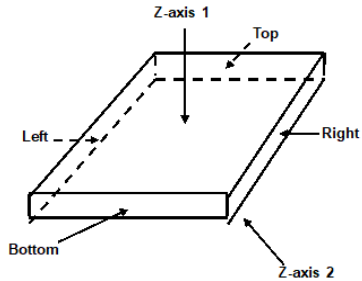
The antenna of this product, under normal use condition, is at less than 20cm away from the body of the user. So, this device is classified as **Portable Device**.

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



Notes:

1. Z-axis 1, It means the load surface.
2. Z-axis 2, It means the back of the load surface.

2.7 TEST RESULTS

Mode 1: EUT Mode with iPhone 16 Pro 10% Battery Charging

E-Field Measurement						
Distance	0cm					
EUT Side	Left	Right	Top	Bottom	Z-axis1	Z-axis2
Max E-field (V/m)	1.4611	1.1025	1.2401	1.9949	3.2071	1.8689
Limit (V/m)	614	614	614	614	614	614
Margin (V/m)	-612.5389	-612.8975	-612.7599	-612.0051	-610.7929	-612.1311

H-Field Measurement						
Distance	0cm					
EUT Side	Left	Right	Top	Bottom	Z-axis1	Z-axis2
Max H-field (A/m)	1.5903	1.3313	1.6022	0.0915	0.0922	0.8794
Limit (A/m)	1.63	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-0.040	-0.299	-0.028	-1.539	-1.538	-0.751

Mode 1: EUT Mode with iPhone 16 Pro 10% Battery Charging

E-Field Measurement						
Distance	2cm					
EUT Side	Left	Right	Top	Bottom	Z-axis1	Z-axis2
Max E-field (V/m)	2.9120	3.7202	2.4026	2.5670	4.5447	1.0595
Limit (V/m)	614	614	614	614	614	614
Margin (V/m)	-611.088	-610.2798	-611.5974	-611.433	-609.4553	-612.9405

H-Field Measurement						
Distance	2cm					
EUT Side	Left	Right	Top	Bottom	Z-axis1	Z-axis2
Max H-field (A/m)	0.1080	0.1680	0.0911	0.0902	0.0221	0.4202
Limit (A/m)	1.63	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.522	-1.462	-1.539	-1.540	-1.608	-1.210

Mode 1: EUT Mode with iPhone 16 Pro 10% Battery Charging

E-Field Measurement						
Distance	4cm					
EUT Side	Left	Right	Top	Bottom	Z-axis1	Z-axis2
Max E-field (V/m)	1.9812	2.3111	1.6874	1.6720	2.6697	0.7382
Limit (V/m)	614	614	614	614	614	614
Margin (V/m)	-612.0188	-611.6889	-612.3126	-612.328	-611.3303	-613.2618

H-Field Measurement						
Distance	4cm					
EUT Side	Left	Right	Top	Bottom	Z-axis1	Z-axis2
Max H-field (A/m)	0.0568	0.0700	0.0398	0.0691	0.0205	0.1973
Limit (A/m)	1.63	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.573	-1.560	-1.590	-1.561	-1.610	-1.433

Mode 1: EUT Mode with iPhone 16 Pro 10% Battery Charging

E-Field Measurement						
Distance	6cm					
EUT Side	Left	Right	Top	Bottom	Z-axis1	Z-axis2
Max E-field (V/m)	1.5253	1.8444	1.3066	1.2738	2.9446	0.5851
Limit (V/m)	614	614	614	614	614	614
Margin (V/m)	-612.4747	-612.1556	-612.6934	-612.7262	-611.0554	-613.4149

H-Field Measurement						
Distance	6cm					
EUT Side	Left	Right	Top	Bottom	Z-axis1	Z-axis2
Max H-field (A/m)	0.0387	0.0387	0.0306	0.0339	0.0221	0.0924
Limit (A/m)	1.63	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.591	-1.591	-1.599	-1.596	-1.608	-1.538

Mode 1: EUT Mode with iPhone 16 Pro 10% Battery Charging

E-Field Measurement						
Distance	8cm					
EUT Side	Left	Right	Top	Bottom	Z-axis1	Z-axis2
Max E-field (V/m)	1.1470	1.1590	1.0064	1.1210	1.7955	0.4510
Limit (V/m)	614	614	614	614	614	614
Margin (V/m)	-612.853	-612.841	-612.9936	-612.879	-612.2045	-613.549

H-Field Measurement						
Distance	8cm					
EUT Side	Left	Right	Top	Bottom	Z-axis1	Z-axis2
Max H-field (A/m)	0.0294	0.0281	0.0256	0.0277	0.0221	0.0656
Limit (A/m)	1.63	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.601	-1.602	-1.604	-1.602	-1.608	-1.564

Mode 1: EUT Mode with iPhone 16 Pro 10% Battery Charging

E-Field Measurement						
Distance	10cm					
EUT Side	Left	Right	Top	Bottom	Z-axis1	Z-axis2
Max E-field (V/m)	0.8570	0.9240	0.8318	0.9270	1.3954	0.4110
Limit (V/m)	614	614	614	614	614	614
Margin (V/m)	-613.143	-613.076	-613.1682	-613.073	-612.6046	-613.589

H-Field Measurement						
Distance	10cm					
EUT Side	Left	Right	Top	Bottom	Z-axis1	Z-axis2
Max H-field (A/m)	0.0251	0.0192	0.0236	0.0250	0.0221	0.0443
Limit (A/m)	1.63	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.605	-1.611	-1.606	-1.605	-1.608	-1.586

Mode 1: EUT Mode with iPhone 16 Pro 10% Battery Charging

E-Field Measurement						
Distance	15cm					
EUT Side	Left	Right	Top	Bottom	Z-axis1	Z-axis2
Max E-field (V/m)	0.1539	0.7277	0.5386	0.4836	0.7933	0.2563
Limit (V/m)	614	614	614	614	614	614
Margin (V/m)	-613.8461	-613.2723	-613.4614	-613.5164	-613.2067	-613.7437
50% Limit (V/m)	307	307	307	307	307	307
50% Margin (V/m)	-306.8461	-306.2723	-306.4614	-306.5164	-306.2067	-306.7437

H-Field Measurement						
Distance	15cm					
EUT Side	Left	Right	Top	Bottom	Z-axis1	Z-axis2
Max H-field (A/m)	0.0188	0.0205	0.0200	0.0205	0.0205	0.0285
Limit (A/m)	1.63	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.611	-1.610	-1.610	-1.610	-1.610	-1.602
50% Limit (A/m)	0.815	0.815	0.815	0.815	0.815	0.815
50% Margin (A/m)	-0.796	-0.795	-0.795	-0.795	-0.795	-0.787

Mode 2: EUT Mode with iPhone 16 Pro 90% Battery Charging

E-Field Measurement						
Distance	0cm					
EUT Side	Left	Right	Top	Bottom	Z-axis1	Z-axis2
Max E-field (V/m)	3.0578	2.6921	2.4834	2.7445	7.5721	3.0313
Limit (V/m)	614	614	614	614	614	614
Margin (V/m)	-610.9422	-611.3079	-611.5166	-611.2555	-606.4279	-610.9687

H-Field Measurement						
Distance	0cm					
EUT Side	Left	Right	Top	Bottom	Z-axis1	Z-axis2
Max H-field (A/m)	1.5633	1.4536	1.5874	0.0562	0.0716	0.3630
Limit (A/m)	1.63	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-0.067	-0.176	-0.043	-1.574	-1.558	-1.267

Mode 2: EUT Mode with iPhone 16 Pro 90% Battery Charging

E-Field Measurement						
Distance	2cm					
EUT Side	Left	Right	Top	Bottom	Z-axis1	Z-axis2
Max E-field (V/m)	2.4261	2.4147	2.8198	1.9584	5.6203	1.5698
Limit (V/m)	614	614	614	614	614	614
Margin (V/m)	-611.5739	-611.5853	-611.1802	-612.0416	-608.3797	-612.4302

H-Field Measurement						
Distance	2cm					
EUT Side	Left	Right	Top	Bottom	Z-axis1	Z-axis2
Max H-field (A/m)	0.1483	0.1831	0.1961	0.0359	0.0320	0.1265
Limit (A/m)	1.63	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.482	-1.447	-1.434	-1.594	-1.598	-1.504

Mode 2: EUT Mode with iPhone 16 Pro 90% Battery Charging

E-Field Measurement						
Distance	4cm					
EUT Side	Left	Right	Top	Bottom	Z-axis1	Z-axis2
Max E-field (V/m)	1.5850	1.6107	1.6951	1.9868	2.9134	1.1435
Limit (V/m)	614	614	614	614	614	614
Margin (V/m)	-612.415	-612.3893	-612.3049	-612.0132	-611.0866	-612.8565

H-Field Measurement						
Distance	4cm					
EUT Side	Left	Right	Top	Bottom	Z-axis1	Z-axis2
Max H-field (A/m)	0.0645	0.0789	0.0851	0.0539	0.0236	0.0556
Limit (A/m)	1.63	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.566	-1.551	-1.545	-1.576	-1.606	-1.574

Mode 2: EUT Mode with iPhone 16 Pro 90% Battery Charging

E-Field Measurement						
Distance	6cm					
EUT Side	Left	Right	Top	Bottom	Z-axis1	Z-axis2
Max E-field (V/m)	1.2184	1.1812	1.1593	1.5087	1.9239	0.8611
Limit (V/m)	614	614	614	614	614	614
Margin (V/m)	-612.7816	-612.8188	-612.8407	-612.4913	-612.0761	-613.1389

H-Field Measurement						
Distance	6cm					
EUT Side	Left	Right	Top	Bottom	Z-axis1	Z-axis2
Max H-field (A/m)	0.0389	0.0472	0.0474	0.0322	0.0200	0.0335
Limit (A/m)	1.63	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.591	-1.583	-1.583	-1.598	-1.610	-1.597

Mode 2: EUT Mode with iPhone 16 Pro 90% Battery Charging

E-Field Measurement						
Distance	8cm					
EUT Side	Left	Right	Top	Bottom	Z-axis1	Z-axis2
Max E-field (V/m)	1.0460	1.0721	0.9972	1.1742	1.6952	0.8041
Limit (V/m)	614	614	614	614	614	614
Margin (V/m)	-612.954	-612.9279	-613.0028	-612.8258	-612.3048	-613.1959

H-Field Measurement						
Distance	8cm					
EUT Side	Left	Right	Top	Bottom	Z-axis1	Z-axis2
Max H-field (A/m)	0.0369	0.0413	0.0381	0.0314	0.0200	0.0304
Limit (A/m)	1.63	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.593	-1.589	-1.592	-1.599	-1.610	-1.600

Mode 2: EUT Mode with iPhone 16 Pro 90% Battery Charging

E-Field Measurement						
Distance	10cm					
EUT Side	Left	Right	Top	Bottom	Z-axis1	Z-axis2
Max E-field (V/m)	0.9620	0.9970	0.9421	1.0450	1.4691	0.5760
Limit (V/m)	614	614	614	614	614	614
Margin (V/m)	-613.038	-613.003	-613.0579	-612.955	-612.5309	-613.424

H-Field Measurement						
Distance	10cm					
EUT Side	Left	Right	Top	Bottom	Z-axis1	Z-axis2
Max H-field (A/m)	0.0357	0.0366	0.0289	0.0277	0.0194	0.0307
Limit (A/m)	1.63	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.594	-1.593	-1.601	-1.602	-1.611	-1.599

Mode 2: EUT Mode with iPhone 16 Pro 90% Battery Charging

E-Field Measurement						
Distance	15cm					
EUT Side	Left	Right	Top	Bottom	Z-axis1	Z-axis2
Max E-field (V/m)	0.4973	0.4783	0.4458	0.5792	0.5896	0.3912
Limit (V/m)	614	614	614	614	614	614
Margin (V/m)	-613.5027	-613.5217	-613.5542	-613.4208	-613.4104	-613.6088
50% Limit (V/m)	307	307	307	307	307	307
50% Margin (V/m)	-306.5027	-306.5217	-306.5542	-306.4208	-306.4104	-306.6088

H-Field Measurement						
Distance	15cm					
EUT Side	Left	Right	Top	Bottom	Z-axis1	Z-axis2
Max H-field (A/m)	0.0200	0.0205	0.0182	0.0205	0.0182	0.0207
Limit (A/m)	1.63	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.610	-1.610	-1.612	-1.610	-1.612	-1.609
50% Limit (A/m)	0.815	0.815	0.815	0.815	0.815	0.815
50% Margin (A/m)	-0.795	-0.795	-0.797	-0.795	-0.797	-0.794



Test Report No.: FM2412WDG0137

3. PHOTOGRAPHS OF THE TEST CONFIGURATION

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

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