





RF EXPOSURE TEST REPORT

Applicant	Belkin International, Inc
Address	12045 East Waterfront Drive, Playa Vista, CA 90094, USA

Manufacturer or Supplier	Belkin International, Inc
Address	12045 East Waterfront Drive, Playa Vista, CA 90094, USA
Product	BOOSTCHARGE Portable Wireless Charger + Stand Special Edition
Brand Name	belkin
Model	WIZ003
Additional Model & Model Difference	N/A
Date of tests	Mar. 26, 2020 ~ May 09, 2020

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

KDB 680106 D01

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

Tested by Andy Zhu Project Engineer / EMC Department Ass
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Data: Jun. 03, 2020

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	ASE CONTROL RECORD

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED	
FM200326N003	Original release	Jun. 03, 2020	

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1. GENERAL INFORMATION

1.1. GENERAL DESCRIPTION OF EUT

FCC ID	K7SWIZ003			
PRODUCT	BOOSTCHARGE Portable Wireless Charger + Stand Special Edition			
MODEL NO.	WIZ003			
ADDITIONAL MODEL	N/A			
POWER SUPPLY	DC 3.7V from battery Input USB-C: 5.0V=3.0A, 9.0V=2.0A, 12V=1.5A Input Pogo Pin: 5.0V=3.0A, 9.0V=2.0A, 12V=1.5A Output USB A: 5V=2.4A Output Wireless: 10W Total Output (USB A + Wireless): 12W (Max)			
MODULATION TECHNOLOGY	FSK			
OPERATING FREQUENCY RANGE	110 ~ 205KHz			
ANTENNA TYPE	Coil Antenna			
I/O PORTS	Refer to user's manual			
CABLE SUPPLIED	USB-C cable: Shielded, non-detachable 1.2m			

NOTES:

- 1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- 2. For the test results, the EUT had been tested with all conditions, but only the worst case was shown in test report.
- 3. Please refer to the EUT photo document (Reference No.: 200326N003) for detailed product photo.
- 4. The EUT were powered by the following car charger:

ADAPTER	
BRAND:	DBK
MODEL:	USB-150PD-US
INPUT:	AC 100-240V, 50-60HZ, 0.8A(MAX)
OUTPUT:	Type-C 5V-3A, 9V-2A, 12V-1.5A, 18W(MAX)
DC LINE:	N/A

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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/cm²)	Averaging time (minutes)					
(A) Lim	(A) Limits for Occupational/Controlled Exposures								
0.3–3.0	614	1.63	*(100)	6					
3.0-30	1842/f	4.89/f	*(900/f2)	6					
30-300	61.4	0.163	1.0	6					
300-1500			f/300	6					
1500-100,000			5	6					
(B) Limits	for General Populati	on/Uncontrolled Exp	oosure						
0.3–1.34	614	1.63	*(100)	30					
1.34-30	824/f	2.19/f	*(180/f²)	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

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 X	Apple	ML7F2CH/A	C6KQKXLAGRY8	N/A

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^{† =} 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.

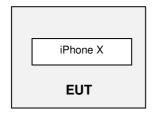
Note 2 to Table 1: General population/uncontrolled exposures apply in situations in which the general public may be exposure or can not exposure or can not exposure or can not exposure or can not exposure.

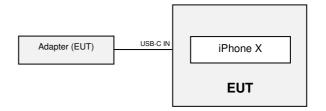


2.3 CONFIGURATION OF SYSTEM UNDER TEST

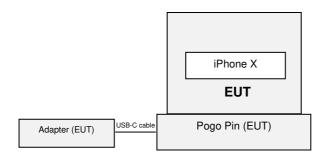
Charging Mode with iPhone X(EUT(battery full))

Charging Mode with iPhone X(EUT USB-C port(DC 5V/2.4A) input)





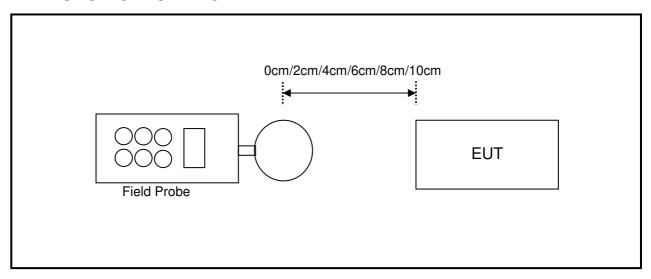
Charging Mode with iPhone X(EUT POGO Pin(DC 5V/2.4A) input)



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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, or 10 cm measured from the center of the probe(s) to the edge of the device.

2.5 EQUIPMENTS USED DURING TEST

Item	Test Equipment Manufacturer		Model No.	S/No	Due date.
1	3m Semi-Anechoic ETS-LINDGRE Chamber N		7m*4m*3m	NSEMC003	2021-03-19
2	B-field Probe Narda		Y2006	L-0017	2020-12-23
3	E-Field probe	Narda	NBM-520	2403/01B	2020-12-23

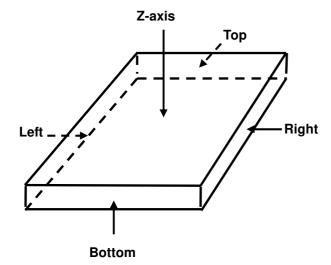
NOTE: 1. The test was performed in RS chamber.

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^{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



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2.7 TEST RESULTS

Charging Mode 1: EUT(battery full) + Charging Mode with iPhone X 10% (distance 0 cm)

E-Field Measurement						
EUT Side Left Right Top Bottom Z-axis						
Max E-field (V/m)	9.58	10.43	4.52	3.16	10.56	
Limit (V/m)	614	614	614	614	614	
Margin (V/m)	-604.42	-603.57	-609.48	-610.84	-603.44	

H-Field Measurement						
EUT Side	EUT Side Left Right Top Bottom Z-axis					
Max H-field (uT)	0.407	0.288	0.247	0.317	0.664	
Max H-field (A/m)	0.324	0.229	0.197	0.252	0.529	
Limit (A/m)	1.63	1.63	1.63	1.63	1.63	
Margin (A/m)	-1.306	-1.401	-1.433	-1.378	-1.101	

Measurements was made from all sides and the top of the primary/client pair, with the 0 cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.

Charging Mode 2: EUT(battery full) + Charging Mode with iPhone X 10% (distance 2 cm)

	- / 0							
E-Field Measurement								
EUT Side	Left	Right	Тор	Bottom	Z-axis			
Max E-field (V/m)	5.46	4.74	3.71	1.88	7.46			
Limit (V/m)	614	614	614	614	614			
Margin (V/m)	-608.54	-609.26	-610.29	-612.12	-606.54			

H-Field Measurement							
EUT Side	Left	Right	Тор	Bottom	Z-axis		
Max H-field (uT)	0.297	0.252	0.245	0.245	0.34		
Max H-field (A/m)	0.236	0.201	0.195	0.195	0.271		
Limit (A/m)	1.63	1.63	1.63	1.63	1.63		
Margin (A/m)	-1.394	-1.429	-1.435	-1.435	-1.359		

Measurements was made from all sides and the top of the primary/client pair, with the 2 cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.

Charging Mode 3: EUT(battery full) + Charging Mode with iPhone X 10% Charger (distance 4 cm)

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E-Field Measurement							
EUT Side	9				Z-axis		
Max E-field (V/m)	2.75	2.73	1.77	1.33	3.22		
Limit (V/m)	614	614	614	614	614		
Margin (V/m)	-611.25	-611.27	-612.23	-612.67	-610.78		

H-Field Measurement							
EUT Side	Left	Right	Тор	Bottom	Z-axis		
Max H-field (uT)	0.274	0.237	0.24	0.234	0.289		
Max H-field (A/m)	0.218	0.189	0.191	0.186	0.230		
Limit (A/m)	1.63	1.63	1.63	1.63	1.63		
Margin (A/m)	-1.412	-1.441	-1.439	-1.444	-1.400		

Measurements was made from all sides and the top of the primary/client pair, with the 4 cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.

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Charging Mode 4: EUT(battery full) + Charging Mode with iPhone X 10% Charger (distance 6 cm)

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E-Field Measurement								
EUT Side	Left	Left Right Top Bottom Z-axis						
Max E-field (V/m)	1.96	1.58	1.55	1.29	2.02			
Limit (V/m)	614	614	614	614	614			
Margin (V/m)	-612.04	-612.42	-612.45	-612.71	-611.98			

H-Field Measurement							
EUT Side	Left	Right	Тор	Bottom	Z-axis		
Max H-field (uT)	0.24	0.231	0.233	0.229	0.237		
Max H-field (A/m)	0.191	0.184	0.186	0.182	0.189		
Limit (A/m)	1.63	1.63	1.63	1.63	1.63		
Margin (A/m)	-1.439	-1.446	-1.444	-1.448	-1.441		

Measurements was made from all sides and the top of the primary/client pair, with the 6 cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.

Charging Mode 5: EUT(battery full) + Charging Mode with iPhone X 10% Charger (distance 8 cm)

				<u> </u>			
E-Field Measurement							
EUT Side	Left	Right	Тор	Bottom	Z-axis		
Max E-field (V/m)	1.74	1.21	1.73	1.31	1.19		
Limit (V/m)	614	614	614	614	614		
Margin (V/m)	-612.26	-612.79	-612.27	-612.69	-612.81		

H-Field Measurement							
EUT Side	Left	Right	Тор	Bottom	Z-axis		
Max H-field (uT)	0.237	0.228	0.225	0.227	0.239		
Max H-field (A/m)	0.189	0.182	0.179	0.181	0.190		
Limit (A/m)	1.63	1.63	1.63	1.63	1.63		
Margin (A/m)	-1.441	-1.448	-1.451	-1.449	-1.440		

Measurements was made from all sides and the top of the primary/client pair, with the 8 cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.

Charging Mode 6: EUT(battery full) + Charging Mode with iPhone X 10% Charger (distance 10 cm)

E-Field Measurement								
EUT Side	Left Right Top Bottom Z-ax							
Max E-field (V/m)	1.26	1.33	1.07	1.2	0.77			
Limit (V/m)	614	614	614	614	614			
Margin (V/m)	-612.74	-612.67	-612.93	-612.80	-613.23			

H-Field Measurement							
EUT Side	Left	Right	Тор	Bottom	Z-axis		
Max H-field (uT)	0.227	0.224	0.224	0.226	0.227		
Max H-field (A/m)	0.181	0.178	0.178	0.180	0.181		
Limit (A/m)	1.63	1.63	1.63	1.63	1.63		
Margin (A/m)	-1.449	-1.452	-1.452	-1.450	-1.449		

Measurements was made from all sides and the top of the primary/client pair, with the 10 cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.

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Charging Mode 7: EUT USB-C port(DC 5V/2.4A) input + Charging Mode with iPhone X 10% Charger (distance 10 cm)

(/							
E-Field Measurement							
EUT Side	Left	Right	Тор	Bottom	Z-axis		
Max E-field (V/m)	1.99	2.13	1.32	2.66	1.64		
Limit (V/m)	614	614	614	614	614		
Margin (V/m)	-612.01	-611.87	-612.68	-611.34	-612.36		

H-Field Measurement								
EUT Side	Left	Right	Тор	Bottom	Z-axis			
Max H-field (uT)	0.226	0.226	0.224	0.225	0.227			
Max H-field (A/m)	0.180	0.180	0.178	0.179	0.181			
Limit (A/m)	1.63	1.63	1.63	1.63	1.63			
Margin (A/m)	-1.450	-1.450	-1.452	-1.451	-1.449			

Measurements was made from all sides and the top of the primary/client pair, with the 10 cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.

Charging Mode 8: EUT POGO Pin(DC 5V/2.4A) input + Charging Mode with iPhone X 10% Charger(distance 10 cm)

E-Field Measurement								
EUT Side	Left	Right	Тор	Bottom	Z-axis			
Max E-field (V/m)	1.79	1.66	1.64	1.46	1.31			
Limit (V/m)	614	614	614	614	614			
Margin (V/m)	-612.21	-612.34	-612.36	-612.54	-612.69			

H-Field Measurement							
EUT Side	Left	Right	Тор	Bottom	Z-axis		
Max H-field (uT)	0.227	0.224	0.225	0.223	0.225		
Max H-field (A/m)	0.181	0.178	0.179	0.178	0.179		
Limit (A/m)	1.63	1.63	1.63	1.63	1.63		
Margin (A/m)	-1.449	-1.452	-1.451	-1.452	-1.451		

Measurements was made from all sides and the top of the primary/client pair, with the 10 cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.

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3. PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (MPE Test Photos)

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