

IKEA of Sweden AB

TEST REPORT

SCOPE OF WORK

EMC TESTING-E2009 NORDMÄRKE

REPORT NUMBER

200818086GZU-002

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Test standards

47 CFR PART 1, Subpart I, Section 1.1310 KDB 680106 D01 RF Exposure Wireless Charging App v03r01

Sample Description

Product : Wireless Charger Model No. : E2009 NORDMÄRKE : INPUT: 5V === 2A **Electrical Rating**

OUTPUT: 5W Max

Serial No. Not Labeled Date Received : 18 August 2020

Date Test : 18 August 2020 to 01 January 2021

Conducted

Prepared and Checked By

Approved By:

Jed Guo Helen Ma

Engineer Team Leader

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1.0 TEST RESULT SUMMARY

Classification of EUT: Class B

Test Item	Standard	Result
EMF	47 CFR PART 1, Subpart I, Section 1.1310	PASS

Remark:

When determining the test results, measurement uncertainty of tests has been considered.

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2.0 General Description

2.1 Product Description

Operating Frequency 115-148KHz

Type of Modulation: Load modulation

Antenna Type Inductive loop coil antenna

Antenna gain: 0 dBi

Power Supply: Input: 5Vdc, 2A, Powered by adaptor AP041 provided by Intertek

Output: 5W Max

Power cord: 1.2m x 2 wires unscreened dc cable

2.2 Test Facility

Room102/104, No 203, KeZhu Road, Science City, GETDD Guangzhou, China

A2LA Certificate Number 0078.10

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch is accredited by A2LA and Listed in FCC website. FCC accredited test labs may perform both Certification testing under Parts 15 and 18 and Declaration of Conformity testing.

2.3 EUT Exercising Software

N/A

2.4 Special Accessories

N/A

2.5 Equipment Modification

Any modifications installed previous to testing by IKEA of Sweden AB will be incorporated in each production model sold / leased in the United States.

No modifications were installed by Intertek Testing Services Shenzhen Ltd. Guangzhou Branch.



2.6 Support Equipment List and Description

This product was tested with corresponding support equipment as below:

Support Equipment:

Equipment	Model No.	Rating	Supplier
Mobile phone	IPhone 8		Intertek

Remark: the iphone 8 was one of typical client devices, it's selected such that the EUT was fully exercised at maximum power from its transmitter. It will not be sold together.

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above evaluated respectively

Pretest mode	Description				
Standby Mode	kept transmitting continuously				
Charging Mode	CH: Low Mobile phone is charging at 1% battery				
	CH: Middle power, 50% and 99% battery power				
	CH: High respectively, keep transmitting				
	continuously				

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3.0 EMF TEST

3.1 Standard Requirement

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.1m normally can be maintained between the user and the device.

(a) Limits for Occupational / Controlled Exposure

Frequency Range (MHz)	Electric Field Magnetic Field Strength (E) (V/m) Strength (H) (A/m)		Power Density (S)(mW/cm²)	Averaging Times E ² , H ² or S (minutes)	
0.3-3.0	614	1.63	(100)*	6	
3.0-30	1842/f	4.89/f	(900/f)*	6	
30-300	61.4	0.163	1.0	6	
300-1500			F/300	6	
1500-100000			5	6	

(b) Limits for General Population / Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S)(mW/cm²)	Averaging Times E ² , H ² or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-100000			1.0	30

Note: f=frequency in MHz; *Plane-wave equivalent power density



3.2 Test Data

Input Voltage: 120V/60Hz Ambient Condition: 24°C, 50%RH

Test distance: 15 cm surrounding the device, and 20 cm away from the surface from the coil.

Top coil:

H-Filed Strength:

Test	Probe Measur	re Result (A/m)	50% Limit	Limit (A/m)	
Position	Mobile in	Mobile in	Mobile in	(A/m)	
	1% battery	50% battery	99% battery		
	power	power	power		
Side 1	0.041	0.036	0.035	0.815	1.63
Side 2	0.033	0.032	0.030	0.815	1.63
Side 3	0.032	0.034	0.032	0.815	1.63
Side 4	0.036	0.038	0.036	0.815	1.63
Тор	0.045	0.043	0.041	0.815	1.63

Below coil:

H-Filed Strength:

Test	Probe Measur	re Result (A/m)	50% Limit	Limit (A/m)	
Position	Mobile in	Mobile in	Mobile in	(A/m)	
	1% battery	50% battery	99% battery		
	power	power	power		
Side 1	0.039	0.034	0.035	0.815	1.63
Side 2	0.034	0.030	0.032	0.815	1.63
Side 3	0.033	0.035	0.031	0.815	1.63
Side 4	0.035	0.036	0.036	0.815	1.63
Тор	0.042	0.039	0.043	0.815	1.63



4.0 Test Equipment List

Equip. No.	Equipment	Model	Manufacturer	Cal. date	Due date
EM007-03	Exposure Level Tester	ELT-400	NARDA	24/02/2020	23/02/2021

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