

IKEA of Sweden AB

TEST REPORT

SCOPE OF WORK EMC TESTING-E2010 LIVBOJ

REPORT NUMBER

200326149GZU-002

ISSUE DATE [REVISED DATE]

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Manufacturing Site	:	Same as applicant
Intertek Report No:		200326149GZU-002
FCC ID:		FHO-E2010

Test standards

47 CFR PART 1, Subpart I, Section 1.1310 KDB 680106 D01 RF Exposure Wireless Charging Apps v03

Sample Description

Product	:	Wireless Charger
Model No.	:	E2010 LIVBOJ
Electrical Rating	:	Input: 5Vdc, 2A, Powered by adaptor
		Output: 5W Max
Adaptor (supplied		Model name: ICPSW5-10NA-1
by Client):		The product will be sold without adaptor
USB cable		1.5 m x 2 wires unscreened USB cable
(supplied by		The product will be sold without USB cable
Client):		
Serial No.		Not Labeled
Date Received	:	26 April 2020
Date Test	:	26 April 2020-06 May 2020
Conducted		

Prepared and Checked By

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Daniel He Project Engineer Intertek Guangzhou Approved By:

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Version: 21 August 2017



Intertek Report: No: 200326149GZU-002

TEST REPORT

CONTENT

TEST RE	PORT	. 1
CONTE	ENT	. 3
1.0	TEST RESULT SUMMARY	. 4
2.0	GENERAL DESCRIPTION	. 5
2.1	Product Description	
2.2	Test Facility	
2.3	EUT Exercising Software	.5
2.4	SPECIAL ACCESSORIES	.5
2.5	Equipment Modification	.5
2.6	SUPPORT EQUIPMENT LIST AND DESCRIPTION	.6
3.0	EMF TEST	. 7
3.1 9	Standard Requirement	.7
3.2	ТЕЅТ ДАТА	.8
4.0	TEST EQUIPMENT LIST	.9



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.



Intertek Report: No: 200326149GZU-002

TEST REPORT

2.0 General Description

2.1 Product Description

Operating Frequency	110.3-148KHz
Type of Modulation:	ASK
Antenna Type	Inductive loop coil antenna
Antenna gain:	0 dBi
Power Supply:	Input: 5Vdc, 2A, Powered by adaptor Output: 5W Max
Power cord:	1.5 m x 2 wires unscreened USB cable
rower cora.	

2.2 Test Facility

Block E, No.7-2 Guang Dong Software Science Park, Caipin Road, Guangzhou 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	Description			
Standby Mode	kept transmitting continuously				
Charging Mode	CH: Low	CH: Low Mobile phone is charging at 1% battery			
	CH: Middle	CH: Middle power, 50% and 99% battery power			
	CH: High respectively, keep transmitting				
		continuously			



Intertek Report: No: 200326149GZU-002

TEST REPORT

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
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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)
0.3-3.0	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 FieldPower DensityStrength (H) (A/m)(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



Intertek Report: No: 200326149GZU-002

TEST REPORT

3.2 Test Data

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

Test distance: 15 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils

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	0.034	0.035	0.815	1.63
Side 2	0.036	0.037	0.036	0.815	1.63
Side 3	0.032	0.038	0.035	0.815	1.63
Side 4	0.034	0.036	0.033	0.815	1.63
Тор	0.046	0.042	0.041	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	2019/12/11	2020/12/11