

TEST REPORT					
Report Number:	90076-24-72-24-PP002				
Date of issue:	2024-01-04				
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Address:	Luoxin Tech. Industrial Park, 2nd District, Quannan Industrial Park, Ganzhou, Jiangxi, China, 341800				
Standard(s):	FCC Part 1(1.1310) and Part 2(2.109	1)			
Test item description::	3-in-1 Magnetic Wireless Charger				
Trade Mark:	/				
Model/Type reference::	W346				
FC ID:	2BBEH-W346				
Date of receipt of test item :	2024-01-12				
Date (s) of performance of test:	2024-01-13 to 2024-01-22				
Summary of Test Results :	Pass				
The Summary of Test Results based on a technical opinion belongs to the standard(s).					
General disclaimer:					

General disclaimer:

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Modified Information

Report No.	Revision Data	Summary
90076-24-72-24-PP002	2024-01-22	Original Version



1. SUMMARY OF TEST RESULT

Description of Test Item	Standard & Limits	Results
MPE	FCC Part 1(1.1310) and Part 2(2.1091) KDB680106 D01 Wireless Power Transfer v04	Pass



2. GENERAL INFORMATION

2.1. Description of Device (EUT)

Product Name	3-in-1 Magnetic Wireless Charger
Trade Name	/
Model Name	W346
Series Model	/
Output	10W/7.5W/5W for Phone 3W for AirPods 2.5W for Watch
Operation frequency	110-205kHz for Phone and AriPods 326kHz for Watch
Modulation Type	FSK
Antenna Type	Inductive Loop Antenna with 0dBi
Power Supply	Input: DC 5V 3A or 9V 2A
Hardware version number	W346-V04
Software version number	0xAF92D65E
Connecting I/O Port(s)	Please refer to the User's Manual



2.2. Description of test modes

All the test modes were carried out with the EUT in normal operation, the final test mode of the EUT was the worst test mode for emission test, which was shown in this report and defined as:

Mode:	TEST MODE DESCRIPPTION				
1	EUT + Wireless Output: 10W for Phone + Wireless Output: 3W for AirPods +				
1	Wireless Output: 2.5W for Watch				
2	EUT + Wireless Output: 7.5W for Phone + Wireless Output: 3W for AirPods +				
2	Wireless Output: 2.5W for Watch				
3	EUT + Wireless Output: 5W for Phone + Wireless Output: 3W for AirPods +				
5	Wireless Output: 2.5W for Watch				
4	EUT + Wireless Output: 10W for Phone + Wireless Output: 3W for AirPods				
5	EUT + Wireless Output: 10W for Phone + Wireless Output: 2.5W for Watch				
6	EUT + Wireless Output: 7.5W for Phone + Wireless Output: 3W for AirPods				
7	EUT + Wireless Output: 7.5W for Phone + Wireless Output: 2.5W for Watch				
8	EUT + Wireless Output: 5W for Phone + Wireless Output: 3W for AirPods				
9	EUT + Wireless Output: 5W for Phone + Wireless Output: 2.5W for Watch				
10	EUT + Wireless Output: 5W for AirPods + Wireless Output: 2.5W for Watch				
11	EUT + Wireless Output: 10W for Phone				
12	EUT + Wireless Output: 7.5W for Phone				
13	EUT + Wireless Output: 5W for Phone				
14	EUT + Wireless Output: 3W for AirPods				
15	EUT + Wireless Output: 2.5W for Watch				
Note:	<u>,</u> , , , , , , , , , , , , , , , , , ,				
	t modes were pre - tested, but we only recorded the worst case in this report. The				
worst case is Mode 1					

- worst case is Mode 1
- 2. All voltage inputs have been tested, with only the worst voltage recorded.
- 3. Product folding has been evaluated for use.

2.3. Description of Support Device

No.	Equipment	Trade name	Model	S/N	Power Cord
1.	Cellphone	Apple	IPhone12pro max		
2	Power adapter	/	LBY-P2008		
3	Watch	Apple	S8		
4	Earbuds	Apple	A2190		

2.4. Description of Test Facility Site Description

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EMC Lab.	: Accredited by ISED, October 31 2023 CAB identifier: CN0126 Company Number: 27767
	Accredited by A2LA, October 31 2023 The Certificate Registration Number is 6325.01
	Accredited by FCC Designation Number: CN1287 Test Firm Registration Number: 394054
Name of Firm Site Location	 SLG-CPC Testlaboratory Co., Ltd. No. 11, Wu Song Road, Dongcheng District, Dongguan, Guangdong Province, China 523117

2.5. Measurement Uncertainty

Test Item	Uncertainty
Magentic fieid meansurements(9kHz~30MHz)	±2.3%
Electrice fieid meansurements(9kHz~30MHz)	±2.1%

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidencelevel using a coverage factor of k=2.

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3. MEASURING DEVICE AND TEST EQUIPMENT

3.1. For MPE Measurement

Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
V	EMF Electromagnetic Field Probe	Narda	EHP-200A	1802X11012	Jun. 01, 2023	3 Year



4. RF EXPOSURE

4.1. Measuring Standard

FCC Part 1(1.1310) and Part 2(2.1091)

4.2. Requiments

Three different categories of transmitters are defined by the FCC in OET Bulletin 65. These categories are fixed installation, mobile, and portable and are defined as follows: o Fixed Installations: fixed location means that the device, including its antenna, is physically secured at a permanent location and is not able to be easily moved to another location. Additionally, distance to humans from the antenna is maintained to at least 2 meters. o Mobile Devices: a mobile device is defined as a transmitting device designed to be used in other than fixed locations and to be generally used in such a way that a separation distance of at least 20 centimeters is normally maintained between the transmitter's radiating structures and the body of the user or nearby persons. Transmitters designed to be used by consumers or workers that can be easily re-located, such as a wireless modem operating in a laptop computer, are considered mobile devices if they meet the 20 centimeter separation requirement. The FCC rules for evaluating mobile devices for RF compliance are found in 47 CFR §2.1091. o Portable Devices: a portable device is defined as a transmitting device designed to be used so that the radiating structure(s) of the device is/are within 20 centimeters of the body of the user. Portable device requirements are found in Section 2.1093 of the FCC's Rules (47 CFR§2.1093). The FCC also categorizes the use of the device as based upon the user's awareness and ability to exercise control over his or her exposure. The two categories defined are Occupational/ Controlled Exposure and General Population/Uncontrolled Exposure. These two categories are defined as follows: Occupational/Controlled Exposure: In general, occupational/controlled exposure limits are applicable to situations in which persons are exposed as a consequence of their employment, who have been made fully aware of the potential for exposure and can exercise control over their exposure. This exposure category is also applicable when the exposure is of a transient nature due to incidental passage through a location where the exposure levels may be higher than the general population/uncontrolled limits, but the exposed person is fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means. Awareness of the potential for RF exposure in a workplace or similar environment can be provided through specific training as part of a RF safety program. If appropriate, warning signs and labels can also be used to establish such awareness by providing prominent information on the risk of potential exposure and instructions on methods to minimize such exposure risks. General Population/Uncontrolled Exposure: The general population / uncontrolled exposure limits are applicable to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes persons in its vicinity. Warning labels placed on low-power consumer devices such as cellular telephones are not considered sufficient to allow the device to be considered under the occupational/controlled category, and the general population/uncontrolled exposure limits apply to these devices.



4.3. Test configuration

1, The field strength of both E-field and H-field was measured at 20cm(the 20 cm measured from the center of the probe(s) to the edge of the device) using the equipment list above for determining compliance with the MPE requirements of FCC Part 1.1310.

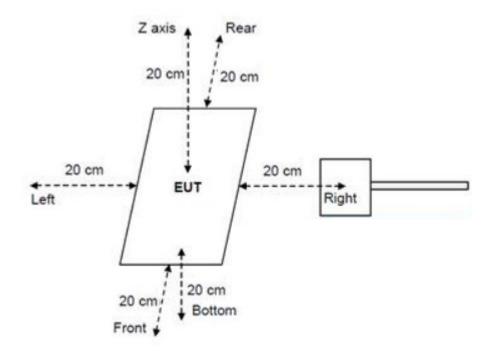
2, The RF power density was measured at 3 ifferent charge conditions:. min load, mid load, max load.

3, Maximum E-field and H-field measurements were made 20cm from each side of the EUT. Along the side of the EUT and still 20cm away from the edge of the EUT, the field probes were positioned at the location where there is maximum field strength. The maximum E-field and H-field is reported below.

4, This device uses a 3-in-1 Magnetic Wireless Charger circuit for power transfer operating at the frequency of 110-205kHz and 326 kHz. Thus, the 300kHz limits were used: E-field Limit = 614 (V/m); H-field limit = 1.63 (A/m).

5. The EUT were measured according to the dictates of KDB680106 D01 Wireless Power Transfer v04

4.4. Block Diagram of Test Setup





4.5. Limits

(A) Limits for Occupational / Controlled Exposure							
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm²)	Averaging Time 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			
1500-100,000			5	6			

(B) Limits for General Population / Uncontrolled Exposure

(b) Eimio for Constant operation? Choonical Expectation						
Frequency Range (MHz)	Strength (H)		Averaging Time 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		
1500-100,000			1.0	30		

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



4.6. Measuring Results

TEST Data:

Test Mode: Mode 1(100% Load)

Electric Field Emission	าร	
Test Position	Measure Value (V/m)	Limit(V/m)
Тор	2.70	614
Left	2.58	614
Right	2.77	614
Rear	2.77	614
Front	2.68	614
Bottom	2.66	614
Magnetic Field Emissi	ons	
Test Position	Measure Value (A/m)	Limit(A/m)
Тор	0.0728	1.63
Left	0.0763	1.63
Right	0.0805	1.63
Rear	0.0852	1.63
Front	0.0841	1.63
Bottom	0.0746	1.63

Test Mode: Mode 1(50% Load)

Electric Field Emissions		
Test Position	Measure Value (V/m)	Limit(V/m)
Тор	2.48	614
Left	2.41	614
Right	2.11	614
Rear	2.48	614
Front	2.25	614
Bottom	2.45	614
Magnetic Field Emission	IS	
Test Position	Measure Value (A/m)	Limit(A/m)
Тор	0.0572	1.63
Left	0.0672	1.63
Right	0.0516	1.63
Rear	0.0666	1.63
Front	0.0685	1.63
Bottom	0.0534	1.63



Test Mode: Mode 1(1% Load)

Electric Field Emissions	3	
Test Position	Measure Value (V/m)	Limit(V/m)
Тор	1.76	614
Left	1.89	614
Right	1.87	614
Rear	1.73	614
Front	1.81	614
Bottom	1.88	614
Magnetic Field Emissio	ns	
Test Position	Measure Value (A/m)	Limit(A/m)
Тор	0.0198	1.63
Left	0.0128	1.63
Right	0.0116	1.63
Rear	0.0114	1.63
Front	0.0168	1.63
Bottom	0.0167	1.63

THE END



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