

	FCC TEST REPORT FCC ID:2A4PS-HT506
Report Number	: <b>ZHT-240905005E-1</b>
Date of Test	: Sept. 05, 2024 to Oct. 15, 2024
Date of issue	: Oct. 15, 2024
Test Result	: PASS
Testing Laboratory	.: Guangdong Zhonghan Testing Technology Co., Ltd.
Address	: Room 104, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Applicant's name	.: Shenzhen Haitao SCI&Tech Co. LTD .: Factory 103, Building 1, West Hezhou Industrial Park, Hezhou Community, Hangcheng Street, Bao 'an District, Shenzhen China
Manufacturer's name	: Shenzhen Haitao SCI&Tech Co. LTD
Address	. : Factory 103, Building 1, West Hezhou Industrial Park, Hezhou Community, Hangcheng Street, Bao 'an District, Shenzhen China
Test specification:	
Standard	: FCC CFR Title 47 Part 15 Subpart C
Test procedure	
Non-standard test method	: N/A
This device described above has be (EUT) is in compliance with the FC0 report. This report shall not be reproduced altered or revised by ZHT, personal	een tested by ZHT, and the test resul/ show that the equipment under test C requiremen/. And it is applicable only to the tested sample identified in the except in full, without the written approval of ZHT, this document may be only, and shall be noted in the revision of the document.
Product name	.: Wireless Charger
Trademark	: / HT-506 Article N°X4MEDAC1
Model Difference	HT-506 is tested model, other models are derivative models .The models are identical in circuit, only different on the model names. So the test data of HT-506 can represent the remaining models.
Ratings	.: Input: DC 5V/3A 9V/3A (QC/PD)

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# **RF Exposure Evaluation**

Product Name:	Wireless Charger	
Product Model No.:	HT-506	
Test Auxiliary:	Wireless charging load and AC adapter	
Transmitting mode:	Keep the EUT in continuously wireless charging mode	
Ratings:	Input: DC 5V/3A 9V/3A (QC/PD) Output: DC 15W/10W/7.5W/5W/3W Phone: 15W/10W/7.5W/5W	Ð
5	TWS: 5W	
	Watch: 3W	

Test Mo	des:
Mode 1	AC Adapter+Wireless charging mode(Watch: 3W)
Mode 2	AC Adapter+Wireless charging mode(TWS: 5W)
Mode 3	AC Adapter+Wireless charging mode(Phone: 5W)
Mode 4	AC Adapter+Wireless charging mode(Phone: 7.5W)
Mode 5	AC Adapter+Wireless charging mode(Phone: 10W)
Mode 6	AC Adapter+Wireless charging mode(Phone: 15W)
Mode 7	AC Adapter+Wireless charging mode(Phone: 15W +TWS: 5W +Watch: 3W)
Note: 1.	All modes were tested, only the worst-case was recorded in the report. Mode 7 is the worst mode.
2.	The EUT does not support portable use, and wireless charging output is not supported when only

powered by batteries.

Auxiliar	Auxiliary equipment									
Item	Equipment	Mfr/Brand Model/Type No.		Series No.	Note					
E-1 AC Adapter		N/A	HW-059200CHQ	N/A	AE					
E-2	Wireless charging load	/	EESON	N/A	AE					
E-3	AirPods	Apple	A2031	N/A	AE					
E-4 Wireless charging load		/	YBZ	N/A	AE					

# **1 Measuring Standard**

KDB 680106 D01 Wireless Power Transfer v04

# 2 Requirements

According to the item 5 of KDB 680106 D01 v04:

Inductive wireless power transfer applications that meet all of the following requirements are excluded from submitting an RF exposure evaluation.

(1) The power transfer frequency is below 1 MHz.

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The EUT frequency range is: Phone, TWS: 110-205KHz, Watch: 300-350KHz.

- (2) The output power from each transmitting element (e.g., coil) is less than or equal to 15 watts. The output power is equal to 15W, Only three coil.
- (3) A client device providing the maximum permitted load is placed in physical contact with the transmitter

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(i.e., the surfaces of the transmitter and client device enclosures need to be in physical contact) EUT can be directly charged.

(4) Only § 2.1091-Mobile exposure conditions apply (i.e., this provision does not cover § 2.1093-Portable exposure conditions).

EUT is a mobile device

(5) The E-field and H-field strengths, at and beyond 20 cm surrounding the device surface, are demonstrated to be less than 50% of the applicable MPE limit, per KDB 447498, Table 1. These measurements shall be taken along the principal axes of the device, with one axis oriented along the direction of the estimated maximum field strength, and for three points per axis or until a 1/d (inverse distance from the emitter structure) field strength decay is observed. Symmetry considerations may be used for test reduction purposes. The device shall be operated in documented worst-case compliance scenarios (i.e., the ones that lead to the maximum field components), and while all the radiating structures (e.g., coils or antennas) that by design can simultaneously transmit are energized at their nominal maximum power.

Yes, the EUT field strength levels are less 50% x MPE limit.

(6) For systems with more than one radiating structure, the conditions specified in (5) must be met when the system is fully loaded (i.e., clients absorbing maximum power available), and with all the radiating structures operating at maximum power at the same time, as per design conditions. If the design allows one or more radiating structures to be powered at a higher level while other radiating structures are not powered, then those cases must be tested as well. For instance, a device may use three RF coils powered at 5 W, or one coil powered at 15 W: in this case, both scenarios shall be tested.

Yes,EUT has only three coil.

#### Limits

The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b) Limits for Maximum Permissible Exposure (MPE)

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Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm <sup>2</sup> )	Averaging time (minutes)
	(A) Limits for Occ	upational/Controlled Ex	posures	
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f <sup>2</sup> )	6
30-300	61.4	0.163	1.0	6
300-1500	/	/	f/300	6
1500-100,000	1	Ĩ	5	6
	(B) Limits for Genera	Population/Uncontrolle	ed Exposure	
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f <sup>2</sup> )	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30
F=frequency in MF *=Plane-wave equi RF exposure com rules. The emissio for 150kHz:614V/n	Iz ivalent power density pliance will need to be ns should be within the li n,1.63A/m).	determined with respect imits at 300kHz in Table 1	to 1.1307(c) and 1 of 1.1310(use :	d (d) of the FCC the 300kHz limits

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# **4 Test Procedure**

1) The RF exposure test was performed in anechoic chamber.

2) The measurement probe was placed at test distance (20 cm from all sides and 20 cm from the top) which is between the edge of the charger and the geometric center of probe.

3) The highest emission level was recorded and compared with limit as soon as measurement of each points (A, B, C, D, E) were completed.

4) The EUT was measured according to the dictates of KDB 680106 D01 v04.

Remark: The EUT' s test position A, B, C, D and E is valid for the E and H field measurements.





# 5 Test Instruments list

Test Equipment	Manufacturer	Model No.	SN.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
Magnetic Amplitude and Gradient Probe System	SPEAG	MAGPy-8H3D+E3D V2& MAGPy-DAS V2	SZ186-06& 3061	Feb. 26, 2024	Feb. 25, 2025
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#### 6 Test Result

All modes were tested, only the worst-case was recorded in the report. Mode 7 is the worst mode..

#### E-Filed Strength at 20 cm from the edges surrounding the EUT (V/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	50%Limits (V/m)	Limits (V/m)	test result
0.110-0.205	0.81	0.91	0.76	0.66	0.89	307	614	PASS

# H-Filed Strength at 20 cm from the edges surrounding the EUT (A/m)

Frequency Range (MHz)	Test Position	Test Position	Test Position	Test Position	Test Position	50%Limits (V/m)	Limits (A/m)	test result
(11112)	А	В	С	D	E	()	()	
0.110-0.205	0.68	0.73	0.61	0.70	0.75	0.815	1.63	PASS

#### E-Filed Strength at 20 cm from the edges surrounding the EUT (V/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	50%Limits (V/m)	Limits (V/m)	test result
0.300-350	0.79	0.88	0.73	0.64	0.86	307	614	PASS

# H-Filed Strength at 20 cm from the edges surrounding the EUT (A/m)

	Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	50%Limits (V/m)	Limits (A/m)	test result
6	0.300-350	0.72	0.75	0.68	0.76	0.71	0.815	1.63	PASS
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