

RF EXPOSURE Test Report

Product: 3 IN 1 WIRELESS CHARGER

Trade Mark: N/A

Model Number: XH-X10

FCC ID: 2BHXI-XH-X10

Prepared for

Shenzhen Xinhui Wireless Intelligence Co., Ltd.
B311, Zhongshunyiquan Ind. Park, #436 Fuqian Rd., Fucheng St., Longhua,
Shenzhen, China 518000

Prepared by

Shenzhen HongBiao Certification& Testing Co., Ltd
Room 102, 201, Building 2, Yuanwanggu RFID Industrial Park, Tongguan
Road, Tianliao Community, Yutang Street, Guangming District, Shenzhen,
China
Tel.: +86-755-2998 9321 Fax.: +86-755-2998 5110
Website: <http://www.sz-hongbiao.com>

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TEST RESULT CERTIFICATION

Applicant's Name : Shenzhen Xinhui Wireless Intelligence Co., Ltd.
Address : B311, Zhongshunyiquan Ind. Park, #436 Fuqian Rd., Fucheng St., Longhua, Shenzhen, China 518000
Manufacturer's Name : Shenzhen Xinhui Wireless Intelligence Co., Ltd.
Address : B311, Zhongshunyiquan Ind. Park, #436 Fuqian Rd., Fucheng St., Longhua, Shenzhen, China 518000

Product description

Product name : 3 IN 1 WIRELESS CHARGER
Model Number : XH-X10

Standards : FCC CFR 47 PART 1 , 1.1310

Test procedure : KDB 680106 D01 Wireless Power Transfer v04

This device described above has been tested by Shenzhen HongBiao Certification& Testing Co., Ltd and the test results show that the equipment under test (EUT) is in compliance with the EMC requirements. And it is applicable only to the tested sample identified in the report.

Date of Test :

Date (s) of performance of tests : Dec. 13, 2024~ Jan. 13, 2025

Test Result : **Pass**

Testing Engineer :

Zoe Su

(Z o e S u)

Technical Manager :

Ming Liu

(M i n g L i u)

Authorized Signatory :

Leo Su

(L e o S u)

[illegible]

1 General Description

1.1 Description of EUT

Product name:	3 IN 1 WIRELESS CHARGER
Model name:	XH-X10
Series Model:	XH-X10 ID23520, XH-X10B, XH-X10C, XH-X10pro, XH-11, XH-X13, XH-X16, XH-X18, XH-X19, VEA06, VEA06A, VEA06B, VEA06C, VEA06D, VEA06E, VEA06F, VEA06G, VEA06I
Different of series model:	All the models are the same circuit and module, except the apperance colour and model No.
Operation frequency:	Phone: 115kHz-205kHz AirPods: 115kHz-205kHz iWatch: 326kHz
Operational mode:	Wireless charging
Modulation type:	ASK
Antenna type:	Coil Antenna
Input:	9V $\overline{=}$ 3A
Battery:	N/A
Power supply:	Input: 9V $\overline{=}$ 3A Wireless Output(Phone): 5W, 7.5W, 10W, 15W Wireless Output(Airpods): 3W(Max) Wireless Output(iWatch): 2.5W(Max)
Adapter information:	Input: 100-240Vac, 50/60Hz, 0.8A Max Output: 5V $\overline{=}$ 3A, 9V $\overline{=}$ 3A, 12V $\overline{=}$ 2.5A, 15V $\overline{=}$ 2A, 20V $\overline{=}$ 1.5A

1.2 Test Mode

Pretest Test Mode	Description of Mode
1	Adapter+Wireless Output: (Phone:5W+Airpods:3W+iWatch:2.5W)
2	Adapter+Wireless Output: (Phone:7.5W+Airpods:3W+iWatch:2.5W)
3	Adapter+Wireless Output: (Phone:10W+Airpods:3W+iWatch:2.5W)
4	Adapter+Wireless Output: (Phone:15W+Airpods:3W+iWatch:2.5W)

1.3 Test Setup

See photographs of the test setup in the report for the actual setup and connections between EUT and support equipment.

1.4 Ancillary Equipment

Equipment	Model	S/N	Manufacturer
Phone	LE2120	8602840564 41073	Shenzhen Oneplus Technology Co., Ltd
AirPods	A3057	GX8H9X0D5 3A0000B31	Apple Inc.
iWatch	A2770	GX140Q74X 1	Apple Inc.

2 Test Facilities and Accreditations

2.1 Test Laboratory

Test Site	Shenzhen HongBiao Certification& Testing Co., Ltd
Test Site Location	Room 102, 201, Building 2, Yuanwanggu RFID Industrial Park, Tongguan Road, Tianliao Community, Yutang Street, Guangming District, Shenzhen, China
Telephone:	(86-755) 2998 9321
Fax:	(86-755) 2998 5110
FCC Registration No.:	CN1341
A2LA Certificate No.:	6765.01

2.2 Environmental Conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15°C~35°C
Relative Humidity:	20%~75%
Air Pressure:	98kPa~101kPa

2.3 Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

The data and results quoted in this document are true and accurate values, and uncertainties are not involved in the calculations.

In addition, components and mass production processes that are similar to testing equipment may introduce additional deviations, and the manufacturer is solely responsible for the continued compliance of the equipment.

Measurement Frequency Range	U, (dB)	Note
RF frequency	2×10^{-5}	
E-field	± 1.06 dB	
H-field	± 0.7 dB	
Temperature	± 1 degree	
Humidity	± 5 %	

2.4 Test Software

Software name	Manufacturer	Model	Version
EHP200-TS	Narda	EHP-200A	Rel 1.95

3 List of Test Equipment

Item	Equipment No.	Equipment name	Manufacturer	Model	Serial No.	Calibration date	Due date
1	HB-E073	Electric and Magnetic Field Analyzer	Narda	EHP-200A	180ZX11013	2024-05-21	2025-05-20

Note: the calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

4 RF Exposure

4.1 Maximum Permissible Exposure

4.1.1. Limit

Frequency range(MHz)	Electric field strength(V/m)	Magnetic field strength(A/m)	Power density(mW/cm2)	Averaging time(minutes)
(A) Limits for Occupational/Controlled Exposure				
0.3-3.0	614	1.63	*100	6
3.0-30	1842/f	4.89/f	*900/f ²	6
30-300	61.4	0.163	1.0 6	6
300-1500			f/300	6
1500-100000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*100	30
1.34-30	824/f	2.19/f	*180/f ²	30
30-300	27.5	0.073	0.2	30
300-1500			f/1500	30
1500-100000			1	30
f = frequency in MHz * = Plane-wave equivalent power density				

4.1.2. Test Procedures

E and H-field measurements should be made with the center of the probe at a distance of 20 cm surrounding the device and 20 cm above the top surface of the primary/client pair.

These measurements should be repeated for three different client battery levels, 1%, 50%, and 99%.

Record the test results.

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

(2) The output power from each transmitting element (e.g., coil) is less than or equal to 15 watts.

(3) A client device providing the maximum permitted load is placed in physical contact with the transmitter(i.e., the surfaces of the transmitter and client device enclosures need to be in physical contact)

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

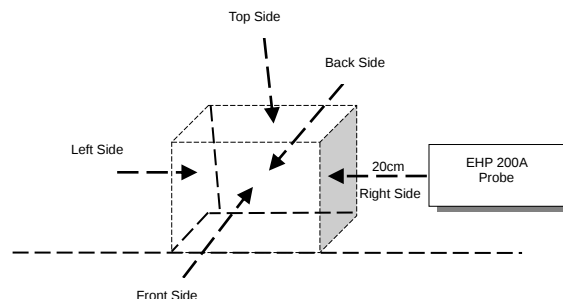
(5) The E-field and H-field strengths, at and beyond 20 cm surrounding the device surface, are demonstrated to be less than 50% of the applicable MPE limit, per KDB 447498, Table 1. These measurements shall be taken along the principal axes of the device, with one axis oriented along the direction of 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.

(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.

4.1.3. Test Setup



4.1.4. Test Result

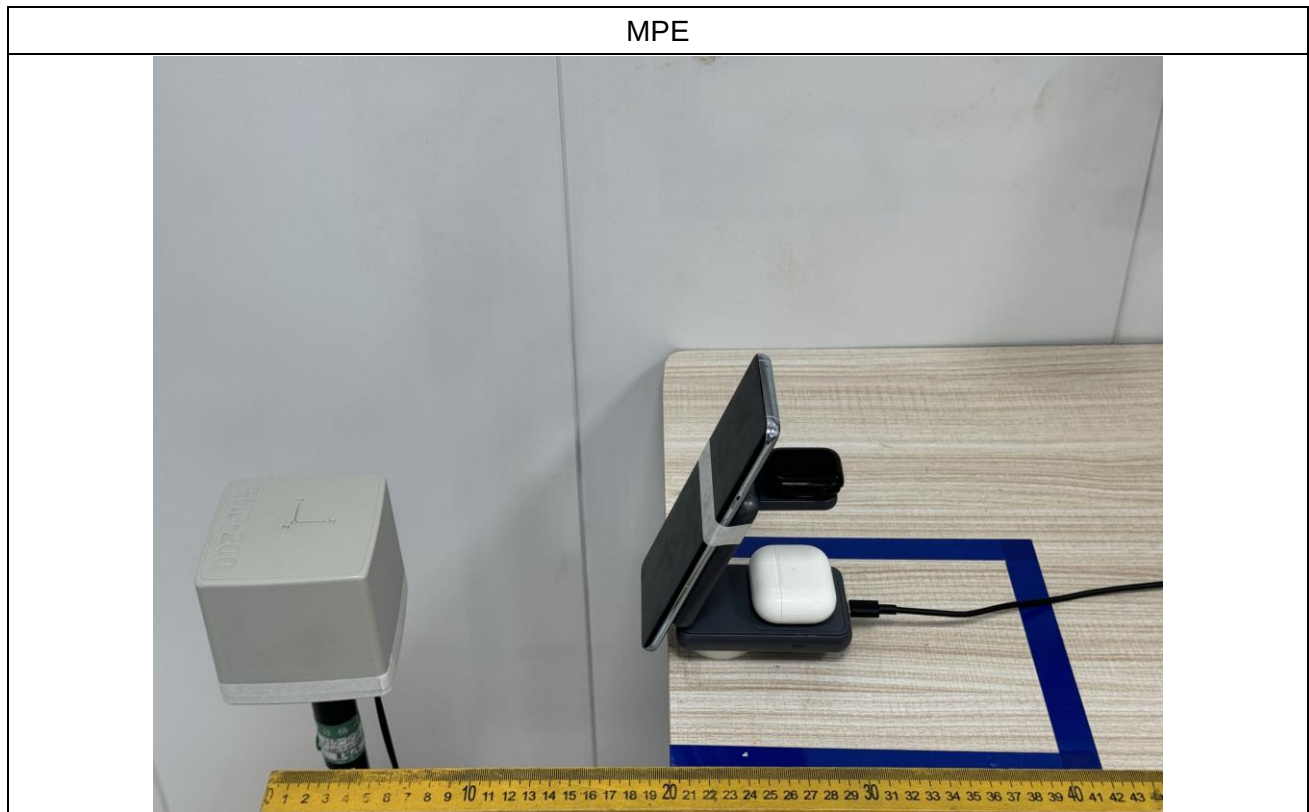
Test condition: Mode 4 operating mode with client device (1 %, 50%, 99% battery status of client device)

Maximum permissible Exposure				
Battery levels	Test sides	Test distance(cm)	E –field(V/m)	H–field(A/m)
<1%	Top	20	1.5645	0.0513
<1%	Left	20	1.9277	0.0486
<1%	Right	20	1.5991	0.0525
<1%	Front	20	2.7817	0.0549
<1%	Back	20	0.5422	0.0454
Limit			614	1.63
Margin Limit (%)			0.45%	3.37%

Maximum permissible Exposure				
Battery levels	Test sides	Test distance(cm)	E –field(V/m)	H–field(A/m)
<50%	Top	20	1.5636	0.0509
<50%	Left	20	1.9268	0.0475
<50%	Right	20	1.5984	0.0519
<50%	Front	20	2.7814	0.0536
<50%	Back	20	0.5417	0.0448
Limit			614	1.63
Margin Limit (%)			0.45%	3.29%

Maximum permissible Exposure				
Battery levels	Test sides	Test distance(cm)	E –field(V/m)	H–field(A/m)
<99%	Top	20	1.5628	0.0504
<99%	Left	20	1.9252	0.0469
<99%	Right	20	1.5974	0.0514
<99%	Front	20	2.7805	0.0528
<99%	Back	20	0.5406	0.0435
Limit			614	1.63
Margin Limit (%)			0.45%	3.24%

5 Photographs of the Test Setup



******* END OF REPORT *******