

RF EXPOSURE Test Report

Product: 3 in 1 Magnetic Wireless Charger

Trade Mark: TEGISPAK

Model Number: FD-318

FCC ID: 2A76B-FD-318

Prepared for

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602-2, F6, Bldg A, Bole Industrial Park, Xiangjiaotang Community, Bantian
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Prepared by

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TEST RESULT CERTIFICATION

Applicant's Name..... : Shenzhen Aiqingsong Technology Co., Ltd.
Address : 602-2, F6, Bldg A, Bole Industrial Park, Xiangjiaotang
Community, Bantian Street, Longgang, Shenzhen
Manufacturer's Name : Shenzhen Aiqingsong Technology Co., Ltd.
Address : 602-2, F6, Bldg A, Bole Industrial Park, Xiangjiaotang
Community, Bantian Street, Longgang, Shenzhen

Product description

Product name : 3 in 1 Magnetic Wireless Charger
Model Number : FD-318

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..... : Nov. 12, 2024~ Nov. 18, 2024

Test Result..... : **Pass**

Testing Engineer :

Zoe Su

(Z o e S u)

Technical Manager :

Gary Lu

(G a r y L u)

Authorized Signatory :

Leo Su

(L e o S u)

[illegible]

1 General Description

1.1 Description of EUT

Product name:	3 in 1 Magnetic Wireless Charger
Model name:	FD-318
Series Model:	N/A
Different of series model:	N/A
Operation frequency:	Phone : 115kHz–205kHz Airpods: 115kHz–205kHz Watch: 328kHz
Operational mode:	Wireless charging
Modulation type:	ASK
Antenna type:	Coil Antenna
Input:	9V=2A, 9V=3A
Battery:	N/A
Power supply:	Input: 9V=2A, 9V=3A Wireless Output (Phone): 15W Max Wireless Output (Airpods): 3W Max Wireless Output (Apple Watch): 2.5W Max
Adapter information:	MODEL: JG18W00A-U Input: 100-240V, 50/60Hz, 0.6A Output: 5V=3A, 9V=2A, 12V=1.5A

1.2 Test Mode

Pretest Test Mode	Description of Mode
1	Wireless Output(Phone: 5W+Airpods: 3W+Watch: 2.5W)
2	Wireless Output(Phone: 7.5W+Airpods: 3W+Watch: 2.5W)
3	Wireless Output(Phone: 10W+Airpods: 3W+Watch: 2.5W)
4	Wireless Output(Phone: 15W+Airpods: 3W+Watch: 2.5W)
5	Wireless Output (Phone: 5W)
6	Wireless Output (Phone: 7.5W)
7	Wireless Output (Phone: 10W)
8	Wireless Output (Phone: 15W)
9	Wireless Output (Airpods: 3W)
10	Wireless Output (Watch: 2.5W)

11	Wireless Output (Phone: 5W+Airpods: 3W)
12	Wireless Output (Phone: 7.5W+Airpods: 3W)
13	Wireless Output (Phone: 10W+Airpods: 3W)
14	Wireless Output (Phone: 15W+Airpods: 3W)
15	Wireless Output (Phone: 5W+Watch: 2.5W)
16	Wireless Output (Phone: 7.5W+Watch: 2.5W)
17	Wireless Output (Phone: 10W+Watch: 2.5W)
18	Wireless Output (Phone: 15W+Watch: 2.5W)
19	Wireless Output (Phone: 3W+Watch: 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	Maximum charging power
Phone	LE2120	860284056441073	Shenzhen Oneplus Technology Co., Ltd	15W
Phone	iPhone 12pro Max	FF2LDX4T60D5H	Apple Inc.	7.5W
Phone	MIX2s	/	Xiaomi Corporation	5W
Phone	Galaxy	/	Samsung Group	10W
Watch	A2859	M69PQQ7J2T	Apple Inc.	5W
Airpods	A2031	H04F3NS0LX2Y	Apple Inc.	5W
Adapter	TA65B	2S36003438PL97T0 9582	Nanjing Bolande Electronic Technology Co., Ltd	65W

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	± 2.5 dB	
H-field	± 4.2 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

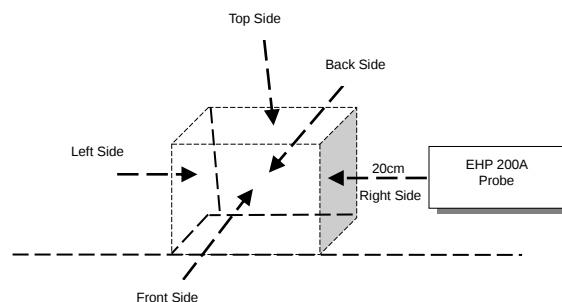
Frequency range(MHz)	Electric field strength(V/m)	Magnetic field strength(A/m)	Power density(mW/cm ²)	Averaging time(minutes)
(A) Limits for Occupational/Controlled Exposure				
0.3-3.0	614	1.63	*100	6
3.0-30	1842/f	4.89/f	*900/f ²	6
30-300	61.4	0.163	1.0 6	6
300-1500	/	/	f/300	6
1500-100000	/	/	5	6
(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

- The RF exposure test was performed in anechoic chamber.
- E and H-field measurements should be made with these devices considered to meet the § 2.1091-Mobile conditions ("generally be used in such a way that a separation distance of at least 20 centimeters is normally maintained between the RF source's radiating structure(s) and [the nearest person]").
- The highest emission level was recorded and compared with limit.
- The EUT was measured according to the dictates of KDB 680106 D01 Wireless Power Transfer v04.

4.1.3. Test Setup



4.1.4. Test Result

Test distance: 20cm

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	2.7079	0.0839
<1%	Left	20	0.5713	0.0454
<1%	Right	20	1.9632	0.0932
<1%	Front	20	1.2336	0.0493
<1%	Back	20	1.5173	0.1000
Limit			614	1.63
Margin Limit (%)			0.44%	6.13%

Maximum permissible Exposure				
Battery levels	Test sides	Test distance(cm)	E -field(V/m)	H-field(A/m)
<50%	Top	20	2.7071	0.0832
<50%	Left	20	0.5707	0.0444
<50%	Right	20	1.9626	0.0926
<50%	Front	20	1.2330	0.0485
<50%	Back	20	1.5165	0.0991
Limit			614	1.63
Margin Limit (%)			0.44%	6.08%

Maximum permissible Exposure				
Battery levels	Test sides	Test distance(cm)	E -field(V/m)	H-field(A/m)
<99%	Top	20	2.7065	0.0825
<99%	Left	20	0.5700	0.0437
<99%	Right	20	1.9619	0.0918
<99%	Front	20	1.2324	0.0479
<99%	Back	20	1.5158	0.0984
Limit			614	1.63
Margin Limit (%)			0.44%	6.04%

5 Photographs of the Test Setup

MPE



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