FCC Test Report

Test Report
On Behalf of
Migear International Group LLC
For
Charging compartment
Model No.: FTWI600, FTW600, TWS606, TWS600, TWS602, TWS350, FTW602, FTW606, SS-TWS146, SS-TWS220, SS-TWS115
FCC ID: 2AIDL-SS-FTW600C

Prepared For:	**Migear International Group LLC** **21 West 38th Street, 14th Floor. New York, 10018, United States**
Prepared By:	**Shenzhen HUAK Testing Technology Co., Ltd.** **1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China**
Date of Test:	**Apr. 25, 2023 ~ May. 05, 2023**
Date of Report:	**May. 05, 2023**
Report Number:	**HK2304251648-2E**

Test Result Certification

Applicant's Name	:	Migear International Group LLC
Address	:	21 West 38th Street, 14th Floor. New York, 10018, United States
Manufacture's Name	:	SKY SINCERITY INTERNANTIONAL CO.,LTD
Address	:	Flat C, 9/F Winning House, No.72-74 Wing Lok Street, Hong Kong
Production plant Name	:	YICHUN SANYANG ELECTRONICS CO.,LTD
Address	:	Sanyang Town, Yuanzhou District, Yichun City, Jiangxi, China.

Product Description

Trade Mark	:	2BOOM, FISHER
Product Name	:	Charging compartment
Model and/or Type Reference:		FTWI600, FTW600, TWS606, TWS600, TWS602, TWS350, FTW602, FTW606, SS-TWS146, SS-TWS220, SS-TWS115
Standards	:	FCC CFR 47 PART 18, KDB 680106 D01

Date of Test	:	
Date (s) of Performance of Tests	:	**Apr. 25, 2023 ~ May. 05, 2023**
Date of Issue	:	**May. 05, 2023**
Test Result	:	**Pass**

Testing Engineer : Gary Qian

(Gary Qian)

Technical Manager : Eden Hu

(Eden Hu)

Authorized Signatory : Jason Zhou

(Jason Zhou)

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

2.

Channel List							
Channel	Frequency (KHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	120						

The EUT antenna is Coil Antenna. No antenna other than that furnished by the responsible party shall be used with the device.

2. Summary of Test Results

2.1. Test procedures according to the technical standards:

FCC KDB 680106 D01 RF Exposure Wireless Charging Apps v03r01

FCC CFR 47			
Standard Section	Test Item	Judgment	Remark
FCC CFR 47 part1, 1.1310 KDB 680106 D01v03r01 (3)(3)	Electric Field Strength (E) (V/m)	PASS	
	Magnetic Field Strength (H) (A/m)	PASS	

2.2. Measurement Uncertainty

The reported uncertainty of measurement **y** ±**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** %.

No.	Item	Uncertainty
1	All Emissions, Radiated(<30M)(9KHz-30MHz)	±3.90dB
2	Temperature	±0.5°C
3	Humidity	±2%

2.3. Test Instruments

Description	Brand	Model No.	S/N	Calibrated Date	Calibrated Until
Exposure Level Tester	narda	ELT-400	N-0231	Feb. 17, 2023	Feb. 16, 2024
Magnetic field probe 100cm^2	narda	NBM-520	B-0324	Feb. 17, 2023	Feb. 16, 2024

NOTE: 1. The calibration interval of the above test instruments is 12 months.

3. Maximum Permissible Exposure

Limit of Maximum Permissible Exposure

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
Limits for General Population / Uncontrolled 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)
0.3-1.34	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	30

Note 1: f = frequency in MHz; *Plane-wave equivalent power density.

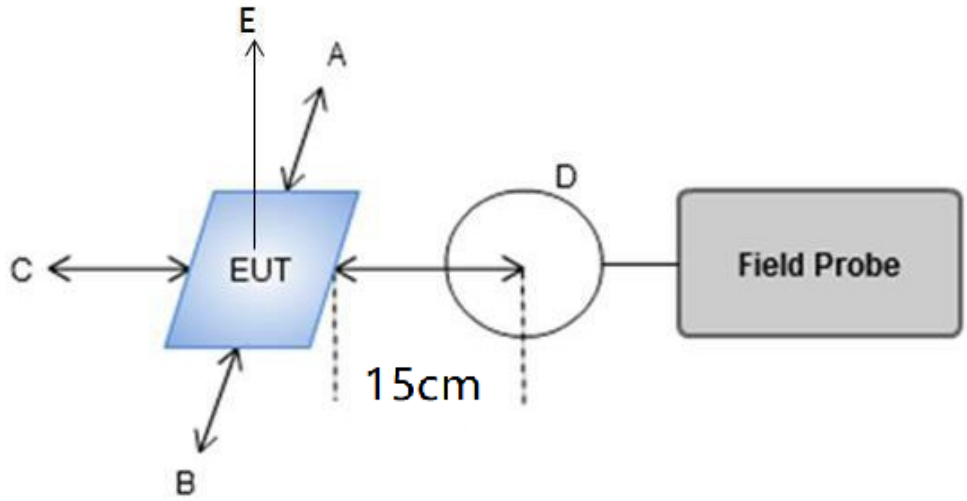
Note 2: For the applicable limit, see FCC 1.1310, 680106 D01 RF Exposure Wireless Charging Apps v03.

Note 3: Emissions between 100 kHz to 300 kHz should be assessed versus the limits at 300 kHz in Table 1 of Section 1.1310: 614 V/m and 1.63A/m. A KDB inquiry is required to determine the applicable exposure limits below 100 kHz.

4. Test Procedure

a. For devices designed for typical desktop applications, such a wireless charging pads, RF exposure evaluation should be conducted assuming a user separation distance of (H-field & E- field strengths for all sides is 15cm, H-field strengths of top side is 20cm).
E and H field strength measurements or numerical modeling may be used to demonstrate compliance. Measurements should be made from all sides and the top of the primary/client pair, with the 15 cm measured from the center of the probe(s) to the edge of the device.

4.1 Test Setup



4.2 Result of Maximum Permissible Exposure

H-Field Strength at 15 cm (E top side: 20cm) from the edges surrounding the EUT (A/m)

Field strength	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Limits (A/m)
uT	0.175	0.238	0.261	0.232	0.235	/
A/m	0.140	0.190	0.209	0.186	0.188	1.63

Note.
Calculation: A/m=uT/1.25

Remark: According KDB 680106 D01 RF Exposure Wireless Charging App v03r01, section 5, b). The aggregate H-field strengths at 15 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit. The E- field evaluation conducted assuming a user separation distance of 15 cm according to the KDB 680106 D01 RF Exposure Wireless Charging App v03 section 3, c).

Result: The device comply with the RF exposure requirement according to 680106 D01 v03r01, section 5, b):

(1) Power transfer frequency is less than 1 MHz.
- The device operate in the frequency range for 112KHz~ 205KHz

(2) Output power from each primary coil is less than or equal to 15 watts.
- The maximum output power is 5W

(3) The system consists of more than one source primary coils, charging one or more clients. If more than one primary coil is present, the coil pairs may be powered on at the same time.
-- The transfer system is a charging system with only one main coil.

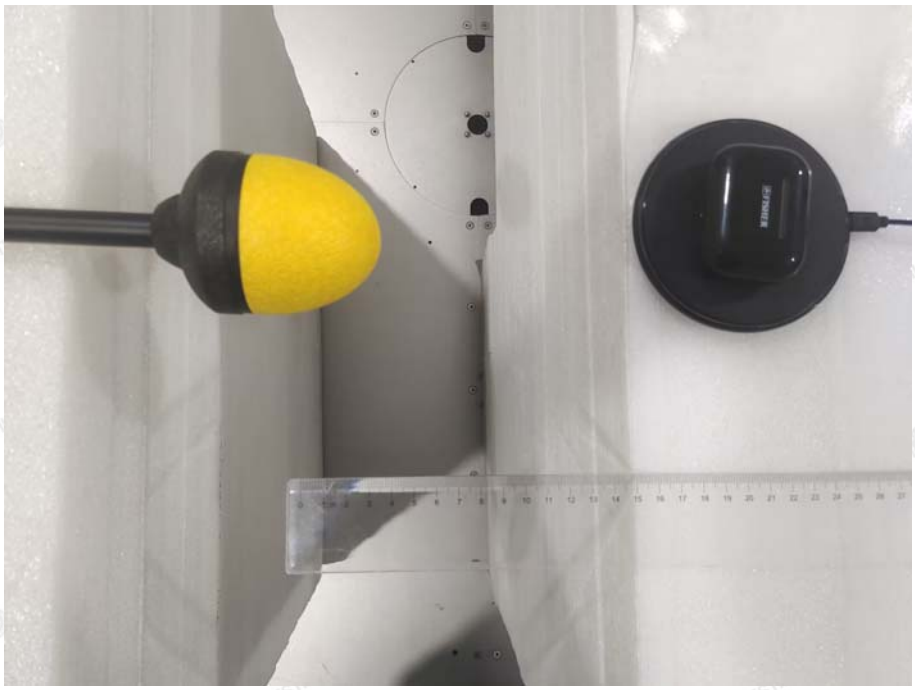
(4) Client device is placed directly in contact with the transmitter.
-The EUT is placed directly in contact with the transmitter

(5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).
- Yes, mobile device only.

(6) The aggregate H-field strengths anywhere at or beyond 15 cm surrounding the device, and 20 cm away from the surface from all coils that by design can simultaneously transmit, and while those coils are simultaneously energized, are demonstrated to be less than 50% of the applicable MPE limit.
- The EUT meet the conditions.

Photograph of Test

A



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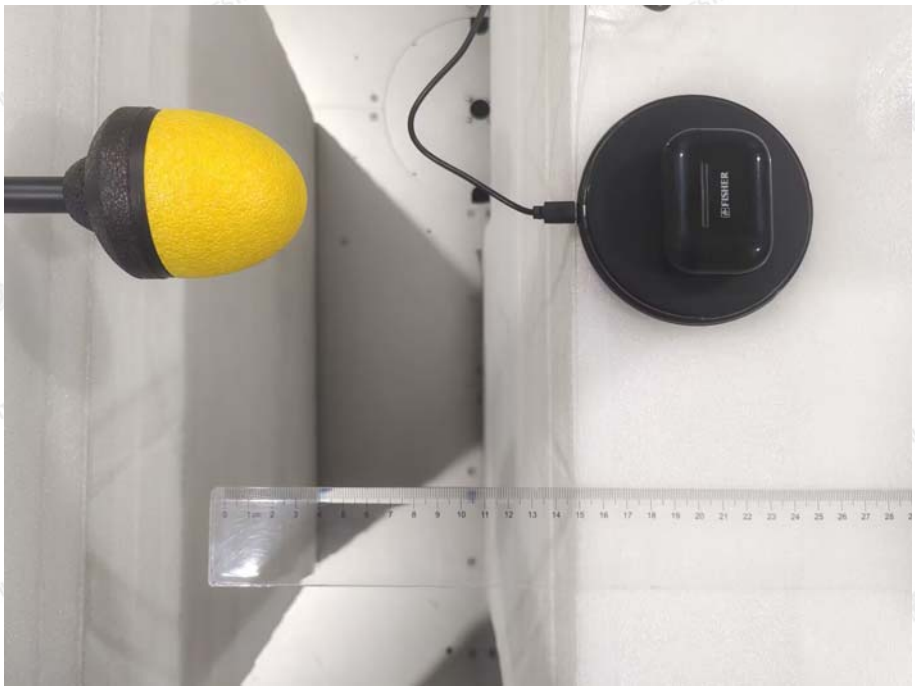

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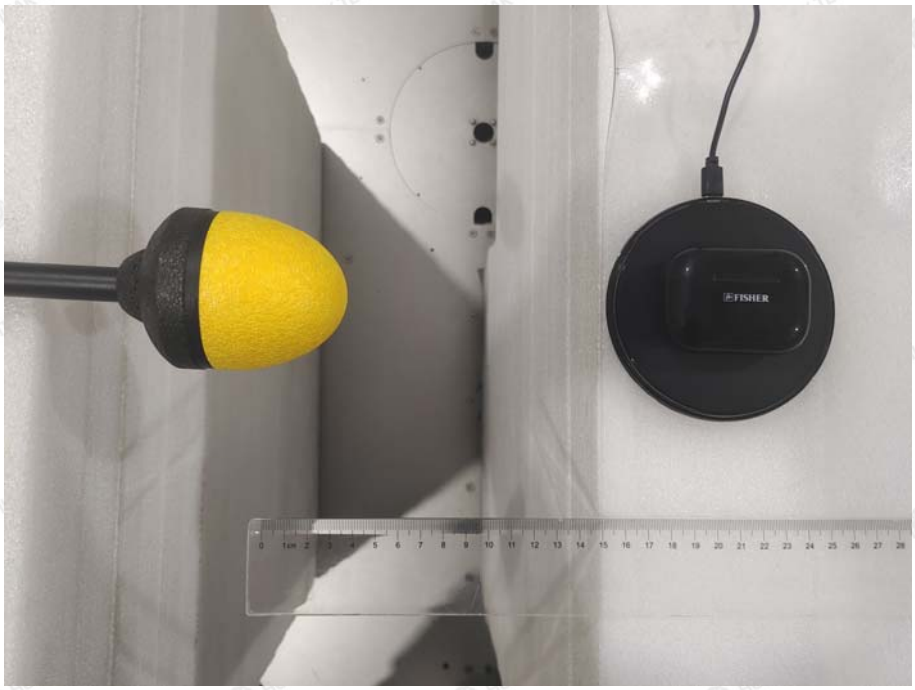
C



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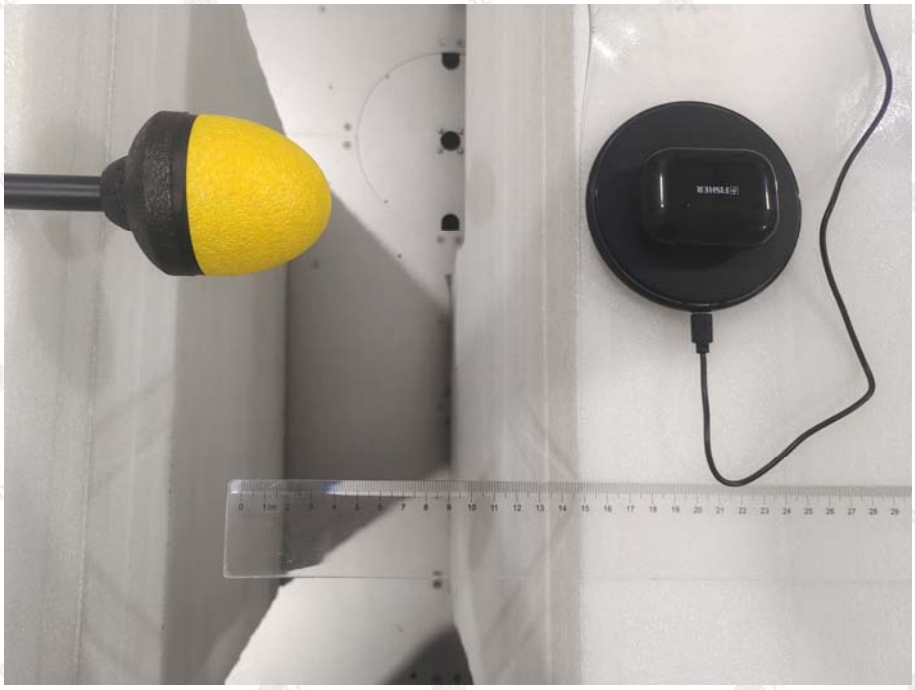

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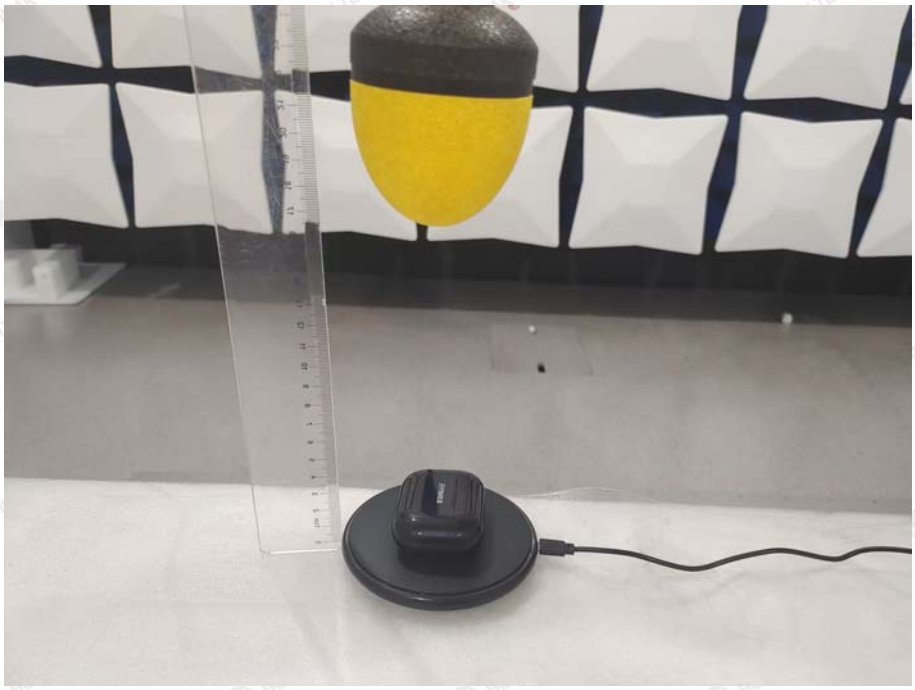
E



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