

RF Exposure Evaluation

FCC ID:2A4OE-B-36

Applicant Name..... : Dongguan Boxinda Electronic Technology Co., Ltd.

Address..... : Room 1001, Building 4, No. 160 Luyuan Road, Tangxia Town, Dongguan City, Guangdong Province, China.

Manufacturer Name..... : Dongguan Boxinda Electronic Technology Co., Ltd.

Address..... : Room 1001, Building 4, No. 160 Luyuan Road, Tangxia Town, Dongguan City, Guangdong Province, China.

Product..... : Wireless charger

Model(s)..... : B-36

Additional Model(s)..... : /

Trademark..... : /

Model Difference..... : /

Prepared by..... : Guangdong Zhonghan Testing Technology Co., Ltd.

Address..... : Room 104/201, Building 1, Yibaolai Industrial Park, Qiaotou, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China

Date of Receipt..... : June 10, 2026

Date of Test(s)..... : June 10, 2026 to July 21, 2026

Date of Issue..... : July 21, 2026

Test Requested..... : Select test(s) as requested by the client.

Test Standard(s)..... : KDB 680106 D01 Wireless Power Transfer v04

In the configuration tested, the EUT complied with the standards specified above.

Prepared by

Leon Li

Leon Li/ Engineer

Reviewed by:

Baret Wu

Baret Wu/ Director



Note: The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This test report shall not be reproduced except in full, without prior written approval of ZHT. This document may be altered or revised by ZHT, personnel only, and shall be noted in the revision of the document.

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1. GENERAL INFORMATION

1.1. GENERAL DESCRIPTION OF EUT

Product Name:	Wireless charger
Test Model No.:	B-36
Hardware version:	V1.0
Software version:	V1.0
Operation Frequency:	Phone: 115-205kHz, 360kHz Earphone: 115-205kHz Watch: 320-330kHz
Modulation type:	ASK
Antenna Type:	Coil Antenna
Antenna gain:	0dBi
Ratings:	Input: DC15V-3A (PD) Phone Wireless Output: 5W/7.5W/10W/15W/25W Qi2.2 MPP Earphone Wireless Output: 5W Watch Wireless Output: 2W-5W
Sample Number:	260610106YP001
Remark: The antenna gain is provided by the customer, if the data provided by the customer is not accurate, Guangdong Zhonghan Testing Technology Co., Ltd. does not assume any responsibility.	

1.2. TEST MODES

Test Modes:	
Mode 1	AC Mains + Mobile phone charging mode (115-205kHz) 15W + Earphone charging mode 5W+ Apple Watch charging mode 5W (Battery Status:≤1%)
Mode 2	AC Mains + Mobile phone charging mode (115-205kHz) 10W + Earphone charging mode 5W+ Apple Watch charging mode 5W (Battery Status:≤1%)
Mode 3	AC Mains + Mobile phone charging mode (115-205kHz) 7.5W + Earphone charging mode 5W+ Apple Watch charging mode 5W (Battery Status:≤1%)
Mode 4	AC Mains + Mobile phone charging mode (115-205kHz) 5W + Earphone charging mode 5W+ Apple Watch charging mode 5W (Battery Status:≤1%)
Mode 5	AC Mains + Mobile phone charging mode (115-205kHz) 15W + Earphone charging mode 5W+ Apple Watch charging mode 5W (Battery Status:50%)
Mode 6	AC Mains + Mobile phone charging mode (115-205kHz) 10W + Earphone charging mode 5W+ Apple Watch charging mode 5W (Battery Status:50%)
Mode 7	AC Mains + Mobile phone charging mode (115-205kHz) 7.5W + Earphone charging mode 5W+ Apple Watch charging mode 5W (Battery Status:50%)
Mode 8	AC Mains + Mobile phone charging mode (115-205kHz) 5W + Earphone charging mode 5W+ Apple Watch charging mode 5W (Battery Status:50%)
Mode 9	AC Mains + Mobile phone charging mode (115-205kHz) 15W + Earphone charging mode 5W+ Apple Watch charging mode 5W (Battery Status:≥98%)
Mode 10	AC Mains + Mobile phone charging mode (115-205kHz) 10W + Earphone charging mode 5W+ Apple Watch charging mode 5W (Battery Status:≥98%)
Mode 11	AC Mains + Mobile phone charging mode (115-205kHz) 7.5W + Earphone charging mode 5W+ Apple Watch charging mode 5W (Battery Status:≥98%)
Mode 12	AC Mains + Mobile phone charging mode (115-205kHz) 5W + Earphone charging mode 5W+ Apple Watch charging mode 5W (Battery Status:≥98%)
Mode 13	AC Mains + Mobile phone charging mode (360kHz) 25W + Earphone charging mode 5W+ Apple Watch charging mode 5W (Battery Status:≤1%)
Mode 14	AC Mains + Mobile phone charging mode (360kHz) 15W + Earphone charging mode 5W+ Apple Watch charging mode 5W (Battery Status:≤1%)
Mode 15	AC Mains + Mobile phone charging mode (360kHz) 10W + Earphone charging mode 5W+ Apple Watch charging mode 5W (Battery Status:≤1%)
Mode 16	AC Mains + Mobile phone charging mode (360kHz) 7.5W + Earphone charging mode 5W+ Apple Watch charging mode 5W (Battery Status:≤1%)

Mode 17	AC Mains + Mobile phone charging mode (360kHz) 5W + Earphone charging mode 5W+ Apple Watch charging mode 5W (Battery Status:≤1%)
Mode 18	AC Mains + Mobile phone charging mode (360kHz) 25W + Earphone charging mode 5W+ Apple Watch charging mode 5W (Battery Status:50%)
Mode 19	AC Mains + Mobile phone charging mode (360kHz) 15W + Earphone charging mode 5W+ Apple Watch charging mode 5W (Battery Status:50%)
Mode 20	AC Mains + Mobile phone charging mode (360kHz) 10W + Earphone charging mode 5W+ Apple Watch charging mode 5W (Battery Status:50%)
Mode 21	AC Mains + Mobile phone charging mode (360kHz) 7.5W + Earphone charging mode 5W+ Apple Watch charging mode 5W (Battery Status:50%)
Mode 22	AC Mains + Mobile phone charging mode (360kHz) 5W + Earphone charging mode 5W+ Apple Watch charging mode 5W (Battery Status:50%)
Mode 23	AC Mains + Mobile phone charging mode (360kHz) 25W + Earphone charging mode 5W+ Apple Watch charging mode 5W (Battery Status:≥98%)
Mode 24	AC Mains + Mobile phone charging mode (360kHz) 15W + Earphone charging mode 5W+ Apple Watch charging mode 5W (Battery Status:≥98%)
Mode 25	AC Mains + Mobile phone charging mode (360kHz) 10W + Earphone charging mode 5W+ Apple Watch charging mode 5W (Battery Status:≥98%)
Mode 26	AC Mains + Mobile phone charging mode (360kHz) 7.5W + Earphone charging mode 5W+ Apple Watch charging mode 5W (Battery Status:≥98%)
Mode 27	AC Mains + Mobile phone charging mode (360kHz) 5W + Earphone charging mode 5W+ Apple Watch charging mode 5W (Battery Status:≥98%)
Mode 28	AC Mains + Mobile phone charging mode (115-205kHz) 15W + Earphone charging mode 5W+ Apple Watch charging mode 2W (Battery Status:≤1%)
Mode 29	AC Mains + Mobile phone charging mode (115-205kHz) 10W + Earphone charging mode 5W+ Apple Watch charging mode 2W (Battery Status:≤1%)
Mode 30	AC Mains + Mobile phone charging mode (115-205kHz) 7.5W + Earphone charging mode 5W+ Apple Watch charging mode 2W (Battery Status:≤1%)
Mode 31	AC Mains + Mobile phone charging mode (115-205kHz) 5W + Earphone charging mode 5W+ Apple Watch charging mode 2W (Battery Status:≤1%)
Mode 32	AC Mains + Mobile phone charging mode (115-205kHz) 15W + Earphone charging mode 5W+ Apple Watch charging mode 2W (Battery Status:50%)
Mode 33	AC Mains + Mobile phone charging mode (115-205kHz) 10W + Earphone charging mode 5W+ Apple Watch charging mode 2W (Battery Status:50%)

Mode 34	AC Mains + Mobile phone charging mode (115-205kHz) 7.5W + Earphone charging mode 5W+ Apple Watch charging mode 2W (Battery Status:50%)
Mode 35	AC Mains + Mobile phone charging mode (115-205kHz) 5W + Earphone charging mode 5W+ Apple Watch charging mode 2W (Battery Status:50%)
Mode 36	AC Mains + Mobile phone charging mode (115-205kHz) 15W + Earphone charging mode 5W+ Apple Watch charging mode 2W (Battery Status:≥98%)
Mode 37	AC Mains + Mobile phone charging mode (115-205kHz) 10W + Earphone charging mode 5W+ Apple Watch charging mode 2W (Battery Status:≥98%)
Mode 38	AC Mains + Mobile phone charging mode (115-205kHz) 7.5W + Earphone charging mode 5W+ Apple Watch charging mode 2W (Battery Status:≥98%)
Mode 39	AC Mains + Mobile phone charging mode (115-205kHz) 5W + Earphone charging mode 5W+ Apple Watch charging mode 2W (Battery Status:≥98%)
Mode 40	AC Mains + Mobile phone charging mode (360kHz) 25W + Earphone charging mode 5W+ Apple Watch charging mode 2W (Battery Status:≤1%)
Mode 41	AC Mains + Mobile phone charging mode (360kHz) 15W + Earphone charging mode 5W+ Apple Watch charging mode 2W (Battery Status:≤1%)
Mode 42	AC Mains + Mobile phone charging mode (360kHz) 10W + Earphone charging mode 5W+ Apple Watch charging mode 2W (Battery Status:≤1%)
Mode 43	AC Mains + Mobile phone charging mode (360kHz) 7.5W + Earphone charging mode 5W+ Apple Watch charging mode 2W (Battery Status:≤1%)
Mode 44	AC Mains + Mobile phone charging mode (360kHz) 5W + Earphone charging mode 5W+ Apple Watch charging mode 2W (Battery Status:≤1%)
Mode 45	AC Mains + Mobile phone charging mode (360kHz) 25W + Earphone charging mode 5W+ Apple Watch charging mode 2W (Battery Status:50%)
Mode 46	AC Mains + Mobile phone charging mode (360kHz) 15W + Earphone charging mode 5W+ Apple Watch charging mode 2W (Battery Status:50%)
Mode 47	AC Mains + Mobile phone charging mode (360kHz) 10W + Earphone charging mode 5W+ Apple Watch charging mode 2W (Battery Status:50%)
Mode 48	AC Mains + Mobile phone charging mode (360kHz) 7.5W + Earphone charging mode 5W+ Apple Watch charging mode 2W (Battery Status:50%)
Mode 49	AC Mains + Mobile phone charging mode (360kHz) 5W + Earphone charging mode 5W+ Apple Watch charging mode 2W (Battery Status:50%)
Mode 50	AC Mains + Mobile phone charging mode (360kHz) 25W + Earphone charging mode 5W+ Apple Watch charging mode 2W (Battery Status:≥98%)

Mode 51	AC Mains + Mobile phone charging mode (360kHz) 15W + Earphone charging mode 5W+ Apple Watch charging mode 2W (Battery Status:≥98%)
Mode 52	AC Mains + Mobile phone charging mode (360kHz) 10W + Earphone charging mode 5W+ Apple Watch charging mode 2W (Battery Status:≥98%)
Mode 53	AC Mains + Mobile phone charging mode (360kHz) 7.5W + Earphone charging mode 5W+ Apple Watch charging mode 2W (Battery Status:≥98%)
Mode 54	AC Mains + Mobile phone charging mode (360kHz) 5W + Earphone charging mode 5W+ Apple Watch charging mode 2W (Battery Status:≥98%)
Note: All modes were tested, only the worst-case was recorded in the report. Mode 1 is the worst mode.	

1.3. AUXILIARY EQUIPMENT

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	AC Adapter	iforg	191106C	/	AE
E-2	Mobile phone	Apple Inc.	iPhone 16 PLUS	/	AE
E-3	Mobile phone	Xiaomi	Xiaomi 13	/	AE
E-4	Earphone	Apple	A2031	/	AE
E-5	Apple Watch	Apple Inc.	MWYK3CH/B	/	AE

Note: Test equipment Charging power Downward compatible.

2. RF EXPOSURE TEST

2.1. MEASURING STANDARD

KDB 680106 D01 Wireless Power Transfer v04

2.2. 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.

Requirements of section 3 of KDB 680106 D01	Yes/ No	Description
Mobile Device and Portable Device Configurations	Yes	Mobile Device
Equipment Authorization Procedures for Devices Operating at Frequencies Below 4 MHz	Yes	The device operate in the frequency range Cellphone: Phone: 115-205kHz, 360kHz Earphone: 115-205kHz Watch: 320-330kHz
RF Exposure compliance may be ensured only for a minimum conditions at smaller distances can still be considered unlikely.separation distance that is greater than 20 cm, while use	Yes	The EUT H-field and E-field strengths at 20 cm surrounding the device.

2.3. 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)

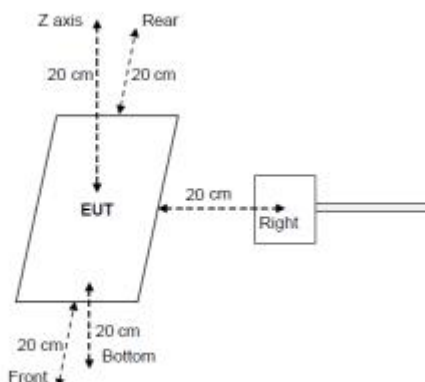
Limits for Maximum Permissible Exposure (MPE)

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 Exposures				
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
300-1500	/	/	f/300	6
1500-100,000	/	/	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
1500-100,000	/	/	1.0	30

F=frequency in MHz
 * =Plane-wave equivalent power density
 RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules. The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz:614V/m,1.63A/m).

2.4. TEST SETUP

For mobile exposure conditions:



2.5. 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.

2.6. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded 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	E-field (3.0kHz to 10.0MHz)	0.7dB
2	H-field (3.0kHz to 10.0MHz)	1.06dB
3	Temperature	$\pm 0.5^{\circ}\text{C}$
4	Humidity	$\pm 2\%$

Decision Rule

- ☒ Uncertainty is not included
☐ Uncertainty is included

2.7. TEST INSTRUMENTS LIST

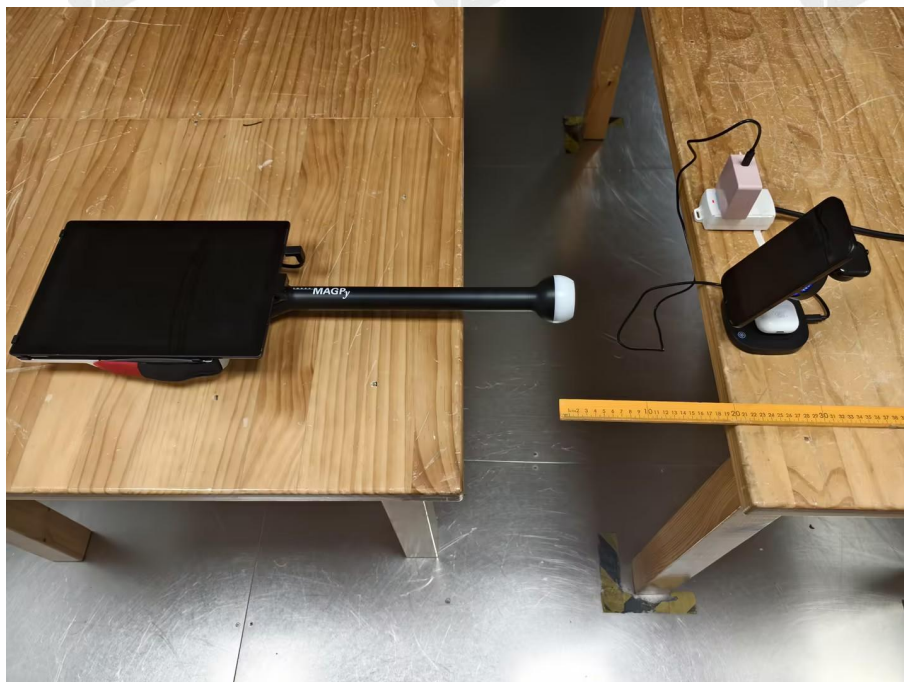
Test Equipment	Manufacturer	Model	Serial No.	Last Cal.	Next Cal.
Near-field Electric and Electric Field Sensor System	Schmid & Partner Engineering AG	MAGPy-8H3D+E3D V2	3127	September 09, 2025	September 08, 2026
Near-field Electric and Electric Field Sensor System	Schmid & Partner Engineering AG	MAGPy-DASV2	3121	September 09, 2025	September 08, 2026

2.8. TEST RESULT

We have evaluated mode 1 to mode 54 and the worst mode 1 is showed in this report.

Test Mode	Test Position A (A/m)	Test Position B (A/m)	Test Position C (A/m)	Test Position D (A/m)	Test Position E (A/m)	50% Limits (A/m)	Limits (A/m)	test result
Mode 1	0.07	0.14	0.14	0.19	0.18	0.815	1.63	PASS
Test Mode	Test Position A (V/m)	Test Position B (V/m)	Test Position C (V/m)	Test Position D (V/m)	Test Position E (V/m)	50% Limits (V/m)	Limits (V/m)	test result
Mode 1	1.13	1.47	1.33	0.98	1.27	307	614	PASS

2.9. TEST PHOTOS



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