

**TEST REPORT
RADIO FREQUENCY
FOR WIRELESS POWER TRANSFER**

Report Number.....	ITA26B06001188W 002
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Standard/According to	KDB 680106 D01 Wireless Power Transfer v04
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Factory's name	Huizhou Aojiada Technology Co., Ltd.
Address	Room 1001, Unit 29, No. 6 Xinhua Avenue, Chenjiang Subdistrict, Huizhou, Guangdong, China
Trade Mark.....	N/A
Product description.....	3 in 1 Wireless charger
Model/Type reference	827371, PT827371, OJD-112, OJD-112A, OJD-112D
Ratings.....	USB-C Input: 9Vdc 3A, 15Vdc 3A Qi2.2 Smartphone Output: 5W, 7.5W, 10W, 15W, 25W Max Earphone Output: 3W Max Apple Watch Output: 2.5W Max
FCC ID	2AVV6-827371
Test result.....	Pass

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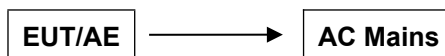
1. General test information

1.1. Description of EUT

Details of technical specification refer to the description in follows:

Test model number	OJD-112
Model different	All models are identical, except model name.
Frequency range (Hz)	110.1K-205K: 5W, 7.5W, 10W for phone; 3W for earphone 326.5K: 2.5W for Apple watch 360K: 15W, 25W for phone;
Modulation technique	FSK
Antenna type	Coil Antenna
Antenna gain	0 dBi
Temperature range (°C)	-10 ~ +40
Hardware version	V1.0
Software version	V1.0

Block diagram EUT configuration for test



1.2. Test modes

Mode	Test Status
1	AC Mains + Mobile phone charging mode for output 5W (110.1k-205kHz) + Earphone charging mode (110.1k-205kHz) + Apple Watch charging mode (326.5kHz)
2	AC Mains + Mobile phone charging mode for output 7.5W (110.1k-205kHz) + Earphone charging mode (110.1k-205kHz) + Apple Watch charging mode (326.5kHz)
3	AC Mains + Mobile phone charging mode for output 10W (110.1k-205kHz) + Earphone charging mode (110.1k-205kHz) + Apple Watch charging mode (326.5kHz)
4	AC Mains + Mobile phone charging mode for output 15W (360kHz) + Earphone charging mode (110.1k-205kHz) + Apple Watch charging mode (326.5kHz)
5	AC Mains + Mobile phone charging mode for output 25W (360kHz) + Earphone charging mode (110.1k-205kHz) + Apple Watch charging mode (326.5kHz)
6	AC Mains + Mobile phone charging mode for output 5W (110.1k-205kHz) + Earphone charging mode (110.1k-205kHz)
7	AC Mains + Mobile phone charging mode for output 7.5W (110.1k-205kHz) + Earphone charging mode (110.1k-205kHz)
8	AC Mains + Mobile phone charging mode for output 10W (110.1k-205kHz) + Earphone charging mode (110.1k-205kHz)
9	AC Mains + Mobile phone charging mode for output 15W (360kHz) + Earphone charging mode (110.1k-205kHz)

10	AC Mains + Mobile phone charging mode for output 25W (360kHz) + Earphone charging mode (110.1k-205kHz)
11	AC Mains + Mobile phone charging mode for output 5W (110.1k-205kHz) + Apple Watch charging mode (326.5kHz)
12	AC Mains + Mobile phone charging mode for output 7.5W (110.1k-205kHz) + Apple Watch charging mode (326.5kHz)
13	AC Mains + Mobile phone charging mode for output 10W (110.1k-205kHz) + Apple Watch charging mode (326.5kHz)
14	AC Mains + Mobile phone charging mode for output 15W (360kHz) + Apple Watch charging mode (326.5kHz)
15	AC Mains + Mobile phone charging mode for output 25W (360kHz) + Apple Watch charging mode (326.5kHz)
16	AC Mains + Earphone charging mode (110.1k-205kHz) + Apple Watch charging mode (326.5kHz)
17	AC Mains + Mobile phone charging mode for output 5W (110.1k-205kHz)
18	AC Mains + Mobile phone charging mode for output 7.5W (110.1k-205kHz)
19	AC Mains + Mobile phone charging mode for output 10W (110.1k-205kHz)
20	AC Mains + Mobile phone charging mode for output 15W (360kHz)
21	AC Mains + Mobile phone charging mode for output 25W (360kHz)
22	AC Mains + Earphone charging mode (110.1k-205kHz)
23	AC Mains + Apple Watch charging mode (326.5kHz)
Worst case statement: The aforementioned testing modes were all conducted under Battery Status: $\leq 1\%$ (full load), Battery Status: $\approx 50\%$ (half load), and Battery Status: $\geq 99\%$ (no load) conditions. After testing, it was found that the test data Battery Status: $\leq 1\%$ (full load) condition is the worst-case. The report reflecting only the worst-case test data.	

1.3. Test environment conditions

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

Temperature range (°C)	15-35
Humidity range (%)	30-75
Pressure range (kPa)	85-105

1.4. Test environment conditions

Item	Equipment	Mfr/Brand	Model / Type	Series No.	Note
1	Load	Apple	Iphone 17	--	Wireless charging of phone: 5W, 7.5W, 15W, 25W
2	Load	Apple	AirPods	--	Wireless charging of Earphone: 2.5W, 5W
3	Load	Apple	Apple Watch Series 10	--	Wireless charging of watch: Max. 5W
4	Load	YBT	P V3.1-Qi2.2/MPP	--	Wireless charging of phone: 5W, 7.5W, 10W, 15W, 25W
5	Load	YBT	E V1.0	--	Wireless charging of Earphone: 2.5W, 3W, 5W
6	Load	YBT	W V2.04	--	Wireless charging of watch: Max. 5W
7	HUAWEI Super Charge	Huawei	HW-2005C02	--	Input: 100-240Vac, 50/60Hz, 2.4A Output: USB-C 5Vdc, 3A; 9Vdc, 3A; 10Vdc, 4A; 11Vdc, 6A; 12Vdc, 3A; 15Vdc, 3A; 20Vdc, 5A; USB-A 5Vdc, 2A; 10Vdc, 4A; 11Vdc, 6A; 20Vdc, 5A

Remark:

The test utilized HUAWEI Super Charge, and the input voltage of HUAWEI Super Charge was 120Vac, 60Hz.

2. RF exposure test

2.1 Measuring standard

KDB 680106 D01 Wireless Power Transfer v04

2.2 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	14.72%
2	H-field	15.48%
3	Temperature	$\pm 0.5^{\circ}\text{C}$
4	Humidity	$\pm 2\%$
Decision Rule		
☒ Uncertainty is not included		
☐ Uncertainty is includedS		

2.3 Test procedure

The RF exposure test was performed in anechoic chamber.

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.

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

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.

2.4 Limits

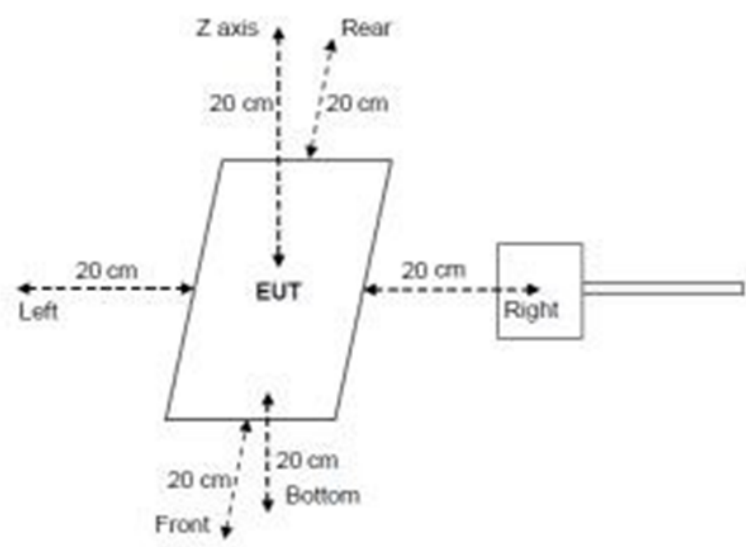
The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

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).				

2.5 Test setup

For mobile exposure conditions:



2.6 Test equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	Near-field Electric and Electric Field Sensor System	Schmid & Partner Engineering AG	MAGPy-8H3D + E3D V2	3127	2026-09-08
2	Near-field Electric and Electric Field Sensor System	Schmid & Partner Engineering AG	MAGPy-DASV2	3121	2026-09-08
3	Near-field Electric and Electric Field Sensor System	Narda	EHP-400	4772	2026-09-08

2.7 Test result

Test Mode	5	Remark	Phone for 25W + Earphone for 3W + Apple Watch for 2.5W under Battery Status: ≤1% (full load)			Result	PASS
H-Filed Strength at 20 cm from the edges surrounding the EUT							
Top (A/m)	Bottom (A/m)	Left (A/m)	Right (A/m)	Front (A/m)	Rear (A/m)	50% Limits (A/m)	Limits (A/m)
0.02	0.01	0.05	0.02	0.04	0.02	0.815	1.63
E-Filed Strength at 20 cm from the edges surrounding the EUT							
Top (V/m)	Bottom (V/m)	Left (V/m)	Right (V/m)	Front (V/m)	Rear (V/m)	50% Limits (V/m)	Limits (V/m)
1.74	0.94	0.72	0.57	0.77	0.72	307	614

Test Mode	3	Remark	Phone for 10W + Earphone for 3W + Apple Watch for 2.5W under Battery Status: ≤1% (full load)			Result	PASS
H-Filed Strength at 20 cm from the edges surrounding the EUT							
Top (A/m)	Bottom (A/m)	Left (A/m)	Right (A/m)	Front (A/m)	Rear (A/m)	50% Limits (A/m)	Limits (A/m)
0.01	0.02	0.02	0.04	0.03	0.01	0.815	1.63
E-Filed Strength at 20 cm from the edges surrounding the EUT							
Top (V/m)	Bottom (V/m)	Left (V/m)	Right (V/m)	Front (V/m)	Rear (V/m)	50% Limits (V/m)	Limits (V/m)
1.51	0.79	0.75	0.79	0.71	0.55	307	614