

TEST REPORT RADIO FREQUENCY FOR WIRELESS POWER TRANSFER

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Standard/According to	KDB 680106 D01 Wireless Power Transfer v04		
Template version	V2.0		
Testing Laboratory	Itestek Testing Co., Ltd. (Dongguan)		
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Applicant's name	Shenzhen Caibo Technology Co., Ltd.		
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Manufacturer's name	Same as applicant		
Address	Same as applicant		
Factory's name	Same as applicant		
Address	Same as applicant		
Trade Mark	/		
Product description	Magnetic wireless charger		
Model/Type reference	MG17, VDT-AL2B, ED74, T238-G		
Ratings	Input: 5Vdc, 3A; 9Vdc, 3A; 12Vdc, 3A; 15Vdc, 3A Wireless charging output: 5W, 7.5W, 10W, 15W, 25W		
FCC ID	2AXTH-MG17		
Test result	Pass		

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4. After test and evaluation, our opinion is that the equipment provided for test compliance with the requirement of the above relevant standards.
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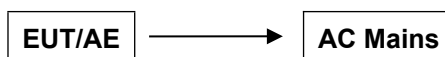
1. General test information

1.1. Description of EUT

Details of technical specification refer to the description in follows:

Test model number	MG17
Test sample number	A-001
Model different	All models are identical, except model number
Frequency range (Hz)	110.1K-205K Hz: output power 5W, 7.5W, 10W; 360K Hz: output power 15W, 25W
Modulation technique	ASK
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 (120Vac, 60Hz) + Wireless charging of phone for output 5W (110.1K-205KHz)
2	AC Mains (120Vac, 60Hz) + Wireless charging of phone for output 7.5W (110.1K-205KHz)
3	AC Mains (120Vac, 60Hz) + Wireless charging of phone for output 10W (110.1K-205KHz)
4	AC Mains (120Vac, 60Hz) + Wireless charging of phone for output 15W (360KHz)
5	AC Mains (120Vac, 60Hz) + Wireless charging of phone for output 25W (360KHz)
6	AC Mains (120Vac, 60Hz) + Standby mode

Remark:

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 under 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	YBT	P V3.1-Qi2.2/MPP	--	Wireless charging of phone: 5W, 7.5W, 10W, 15W, 25W
3	XIAOMI Charge	XIAOMI	MDY-14-ED	--	Input: 100-240Vac, 50/60Hz, 3.0A Output: USB-C1/C2/C3 5Vdc, 3A; 9Vdc, 3A; 15Vdc, 3A; 11Vdc, 6.1A; 20Vdc, 5A; 20Vdc, 6A USB-A 5Vdc, 3A; 9Vdc, 3A; 12Vdc, 2.25A
Remark: The test utilized XIAOMI Charge and the input voltage of XIAOMI Charge was 120Vac, 60Hz.					

2. RF exposure test

2.1 Measuring standard

KDB 680106 D01 Wireless Power Transfer v04

47 CFR Part 2.1091

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	$\pm 0.97\%$
2	H-field	$\pm 0.74\%$
3	Temperature	$\pm 0.5^{\circ}\text{C}$
4	Humidity	$\pm 2\%$
Decision Rule		
☒ Uncertainty is not included		
☐ Uncertainty is included		

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.

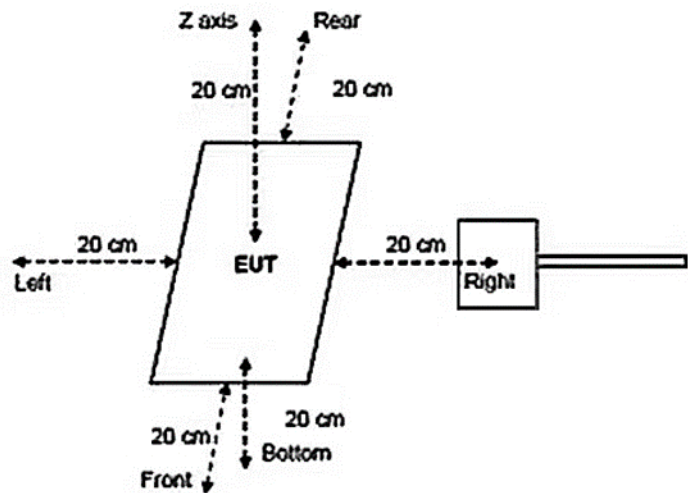
2.4 Limits

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



2.6 Test equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Deadline
1	Near-field Electric and Electric Field Sensor System	Schmid & Partner Engineering AG	MAGPy-8H3D + E3D V2	3127	2025-09-09	2026-09-08
2	Near-field Electric and Electric Field Sensor System	Schmid & Partner Engineering AG	MAGPy-DASV2	3121	2025-09-09	2026-09-08
3	Near-field Electric and Electric Field Sensor System	Narda	EHP-400	4772	2025-09-09	2026-09-08

2.7 Test result

Test Mode	5	Remark	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	0.05	0.02	0.04	0.01	0.02	0.815	1.63

Test Mode	3	Remark	Under battery Status $\leq 1\%$ (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	0.04	0.02	0.01	0.01	0.815	1.63