

# MPE REPORT

wireless charger

MODEL No.: H01-1

FCC ID: 2BNZ2-H01-1

REPORT NO.: MAX250217110P02-R02

ISSUE DATE: Mar. 18, 2025

Prepared for

Hangyi(DongGuan)Electronie Technology Co.,Ltd.

Room 201, Building 19, No. 84 Zhongnan Middle Road, Shangsha, Chang'an Town, Dongguan City, Guangdong Province, China

Prepared by

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### **TEST REPORT DESCRIPTION**

Applicant	: Hangyi(DongGuan)Electronie Technology Co.,Ltd.
Address	Room 201, Building 19, No. 84 Zhongnan Middle Road, Shangsha, Chang'an Town, Dongguan City, Guangdong Province, China
Manufacturer	: Hangyi(DongGuan)Electronie Technology Co.,Ltd.
Address	Room 201, Building 19, No. 84 Zhongnan Middle Road, Shangsha, Chang'an Town, Dongguan City, Guangdong Province, China
EUT Navar Mariae Mariae	: wireless charger
Model Name	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
Trademark	: Dongguan Bolibao Technology

#### **Measurement Procedure Used:**

FCC Part 1(1.1310) and Part 2(2.1091) KDB 680106 D01 Wireless Power Transfer v04

The device described above is tested by MAXLAB Testing Co, Ltd. to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and MAXLAB Testing Co, Ltd. is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the FCC requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of MAXLAB Testing Co, Ltd.

Test Engineer:

Technical Manager:

Cindy theng

Engineer / Cindy Zheng

VIVan Tra

RF Manager / Vivian Jiang



# 1. SUMMARY OF TEST RESULT

Description of Test Item	Standard & Limits	Results
MPE	FCC Part 1(1.1310) and Part 2(2.1091) KDB 680106 D01 Wireless Power Transfer v04	Pass



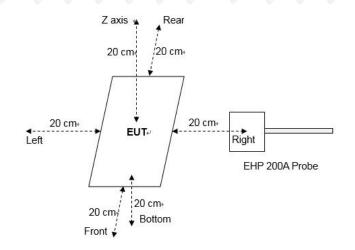
# 2. GENERAL INFORMATION

# 2.1. Description of Device (EUT)

wireless charger
H01-1 and provide provide provide
Input: 12V==2A Output(Wireless): 15W Output(Ultraviolet): 2W
111-205 KHz for Phone
MSK
Coil Antenna
Mar. 08, 2025
Mar. 10, 2025 to Mar. 18, 2025



### 2.2. Test Setup



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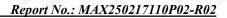


# 2.3. Description of Test Facility

Site Description	A MARKET THE REAL CONTRACT OF AN AND MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET
EMC Lab. :	Accredited by CNAS, 2022-09-27
	The certificate is valid until 2028.01.07
	The Laboratory has been assessed and proved to be in compliance with
	CNAS-CL01:2006 (identical to ISO/IEC 17025:2017)
	The Certificate Registration Number is L8251
	Designation Number: CN1347
	•
	Test Firm Registration Number: 894804
	Accredited by A2LA, June 14, 2023
	The Certificate Registration Number is 6837.01
	Accredited by Industry Canada, November 09, 2018
	The Conformity Assessment Body Identifier is CN0150
	Company Number: 30806
	day
Name of Firm :	MAXLAB Testing Co, Ltd.
Site Location :	1/F, Building B, Xinshidai GR Park, Shiyan Street, Bao'an District,
	Shenzhen, Guangdong, 518052, People's Republic of China

2.4. Measurement Uncertainty

Parameter	Uncertainty
RF output power, conducted	±1.0dB
Power Spectral Density, conducted	±2.2dB
Radio Frequency	± 1 x 10 <sup>-6</sup>
Bandwidth	± 1.5 x 10 <sup>-6</sup>
Time and have have have have have have have	±2%
Duty Cycle	±2%
Temperature	±1°C
Humidity	±5%
DC and low frequency voltages	±3%
Conducted Emissions (150kHz~30MHz)	±3.64dB
Radiated Emission(30MHz~1GHz)	±5.03dB
Radiated Emission(1GHz~25GHz)	±4.74dB
Electric Field Emissions	±0.08V/m
Magnetic Field Emissions	±0.02A/m
ut war war war war war war war war war	±0.01





### 3. MEASURING DEVICE AND TEST EQUIPMENT

Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
$\boxtimes$	Exposure Level Tester(9kHz-30MHz)	Narda	EHP-200A	180ZX00634	2024.06.18	2025.06.17

### 3.1. For MPE Measurement



### 4. RF EXPOSURE

#### 4.1. Measuring Standard

FCC Part 1(1.1310) and Part 2(2.1091)

#### 4.2. Requiments

Three different categories of transmitters are defined by the FCC in OET Bulletin 65. These categories are fixed installation, mobile, and portable and are defined as follows: o Fixed Installations: fixed location means that the device, including its antenna, is physically secured at a permanent location and is not able to be easily moved to another location. Additionally, distance to humans from the antenna is maintained to at least 2 meters. o Mobile Devices: a mobile device is defined as a transmitting device designed to be used in other than fixed locations and to be generally used in such a way that a separation distance of at least 20 centimeters is normally maintained between the transmitter's radiating structures and the body of the user or nearby persons. Transmitters designed to be used by consumers or workers that can be easily re-located, such as a wireless modem operating in a laptop computer, are considered mobile devices if they meet the 20 centimeter separation requirement. The FCC rules for evaluating mobile devices for RF compliance are found in 47 CFR §2.1091. o Portable Devices: a portable device is defined as a transmitting device designed to be used so that the radiating structure(s) of the device is/are within 20 centimeters of the body of the user. Portable device requirements are found in Section 2.1093 of the FCC's Rules (47 CFR§2.1093). The FCC also categorizes the use of the device as based upon the user's awareness and ability to exercise control over his or her exposure. The two categories defined are Occupational/ Controlled Exposure and General Population/Uncontrolled Exposure. These two categories are defined as follows: Occupational/Controlled Exposure: In general, occupational/controlled exposure limits are applicable to situations in which persons are exposed as a consequence of their employment, who have been made fully aware of the potential for exposure and can exercise control over their exposure. This exposure category is also applicable when the exposure is of a transient nature due to incidental passage through a location where the exposure levels may be higher than the general population/uncontrolled limits, but the exposed person is fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means. Awareness of the potential for RF exposure in a workplace or similar environment can be provided through specific training as part of a RF safety program. If appropriate, warning signs and labels can also be used to establish such awareness by providing prominent information on the risk of potential exposure and instructions on methods to General Population/Uncontrolled Exposure: The general population / minimize such exposure risks. uncontrolled exposure limits are applicable to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes persons in its vicinity. Warning labels placed on low-power consumer devices such as cellular telephones are not considered sufficient to allow the device to be considered under the occupational/controlled category, and the general population/uncontrolled exposure limits apply to these devices.



- 4.3. Test configuratio
- 1. The RF exposure test was performed in anechoic chamber.
- 2. 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]").
- 3. The highest emission level was recorded and compared with limit.
- 4. The EUT was measured according to the dictates of KDB 680106 D01 Wireless Power Transfer v04.



#### 4.4. Limits

Frequency	Electric Field	Magnetic Field	Power Density	Averaging Time
Range(MHz)	Strength(V/m)	Strength(A/m)	(mW/cm²)	(minute)
	Limits for C	occupational/Controlle	d Exposure	
0.3-3.0	614	1.63	*100	6
3.0-30	1842/f	4.89/f	*900/f <sup>2</sup>	6
30-300	61.4	0.163	1.0	6
300-1,500	/	1	f/300	6
1,500-100,000	/	/	5	6

#### Limits for Maximum Permissible Exposure (MPE)/Controlled Exposure

#### Limits for Maximum Permissible Exposure (MPE)/Uncontrolled Exposure

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density (mW/cm²)	Averaging Time (minute)
	Limits for Gener	al Population/Uncont	rolled Exposure	
0.3-1.34	614	1.63	*100	30
1.34-30	824/f	2.19/f	*180/f <sup>2</sup>	30
30-300	27.5	0.073	0.2	30
300-1,500	/	/	f/1500	30
1,500-100,000	1	/	1.0	30

F=frequency in MHz

\*=Plane-wave equivalent power density

According to FCC 680106 D01 RF Exposure Wireless Charging Apps v04 Section 3. RF Exposure Requirements clause 3 the Emission-Limits in the frequency range from 100 KHz to 300 KHz should be assessed versus the limits at 300 KHz in Table 1 of CFR 47 – Section1.310 as following (measured distance shall be 15cm from the center of the probe to the edge of the device):

	E-Field	*/*	B-Field
Frequency	V/m	A/m	uT
0.3 MHz – 3.0 MHz	614	1.613	2.0
3.0 MHz – 30 MHz	824/f (=27.5 <sub>зомнz</sub> )	2.19/f (=0.073 <sub>30MHz</sub> )	

A KDB inquire was required to determine/confirm the applicable limits below 100 KHz.



### MAXLAB Testing Co., Ltd.

#### Report No.: MAX250217110P02-R02

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	wireless charger	Dongguan Bolibao Technology	H01-1	N/A	EUT Market
E-2	Phone	SAMSUNG	S24	N/A	Auxiliary
E-2	Phone	SAMSUNG	S24	N/A	Mox

Test Mode:

	Mode	Mar	Description	Remark
ab Jab	tab 1. tab	1/20	dah dah dah dah dah dah dah	5%
Man	2.	Way W	Adapter+EUT + Phone(15W)	50%
	3.			95%

Remark: All the modes have tested and recorded the worst mode: Mode 1 (5% electric quantity); Mode 2 (50% electric quantity) and Mode 3 (95% electric quantity)in the report



### 4.5. Measuring Results

#### For Mobile exposure conditions Test Mode: Mode 1

Test Position	Measure Value (V/m)	Limit(V/m)	Distance(cm)
Top Mat	0.612	614	20
Left	0.356	614	20
Right	0.363	614	20
Rear	0.298	614	20
Front	0.278	614	20

Magnetic Field Em	nissions	Maxiab Maxiab Maxiab	Aardab Martab Martab
Test Position	Measure Value (A/m)	Limit(A/m)	Distance(cm)
Тор	0.0496	1.63	20
Left John Left	0.0483	1.63	20
Right	0.0452	1.63	20
Rear	0.0382	1.63	20
Front	0.0396	1.63	20

#### Test Mode: Mode 2

Electric Field Emis	ssions	the day and the	alah alah alah
Test Position	Measure Value (V/m)	Limit(V/m)	Distance(cm)
Top Ma	0.478	614	20
Left of	0.753	614	20
Right	0.386	614	20
Rear	0.298	614	20
Front	0.392	614	20
Magnetic Field En		and Marile Marile Marile	Di tan tan
Test Position	Measure Value (A/m)	Limit(A/m)	Distance(cm)
-			
lop	0.0488	1.63	20
Top Left	0.0488	<u> </u>	20 20
VAL VAL VAL	X0 X0 X0 X0 X0 X0	<u>xô<sup>2</sup> xô<sup>2</sup> xô<sup>2</sup></u>	Var Var Var
Left No	0.0826	1.63	20

MaxLab

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Report No.: MAX250217110P02-R02

Test Position	Measure Value (V/m)	Limit(V/m)	Distance(cm)
Тор	0.596	614	20
Left	0.388	614	20
Right	0.378	614	20
Rear	0.256	614	20
Front	0.187	614	20
Magnetic Field En	nissions	Martan Martan Martan P	Naviat Mariat Mariat
de de de	nissions Measure Value (A/m)	Limit(A/m)	Distance(cm)
de de de	de de de de de g	Limit(A/m)	Distance(cm)
Test Position	Measure Value (A/m)		0 V 3
Test Position Top	Measure Value (A/m) 0.0596	1.63	20
Test Position Top Left	Measure Value (A/m)           0.0596           0.0796	1.63 1.63	20 20



# 5. PHOTOGRAPHS OF TEST SETUP

For Mobile exposure conditions

