



FCC TEST REPORT
FCC ID: 2AP2N-MAGHOLDS01

On Behalf of

Shenzhen Esorun Technology Co., LTD

Magnetic wireless charger

Model No.: Maghold S01

Prepared for : Shenzhen Esorun Technology Co., LTD
Address : Room 226, Building A, B, C, Zone B, Yuanfen Industrial Zone, Taoyuan
Community, Dalang Street, Longhua District, Shenzhen

Prepared By : Shenzhen Alpha Product Testing Co., Ltd.
Address : Building i, No.2, Lixin Road, Fuyong Street, Bao'an District,
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TEST REPORT DECLARATION

Applicant : Shenzhen Esorun Technology Co., LTD
Address : Room 226, Building A, B, C, Zone B, Yuanfen Industrial Zone,
Taoyuan Community, Dalang Street, Longhua District, Shenzhen
Manufacturer : Shenzhen Esorun Technology Co., LTD
Address : Room 226, Building A, B, C, Zone B, Yuanfen Industrial Zone,
Taoyuan Community, Dalang Street, Longhua District, Shenzhen
EUT Description : Magnetic wireless charger
(A) Model No. : Maghold S01
(B) Trademark : ESORUN

Measurement Standard Used:

FCC CFR Title 47 Part 15 Subpart C

FCC KDB 680106 D01 RF Exposure Wireless Charging Apps v03r01

The device described above is tested by Shenzhen Alpha Product 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 test results are contained in this test report and Shenzhen Alpha Product Testing Co., Ltd. is assumed full responsibility for the accuracy and completeness test. Also, this report shows that the EUT is technically compliant with the KDB 680106 D01 requirements.

This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Shenzhen Alpha Product Testing Co., Ltd.

Tested by (name + signature).....:

Lucas Pang
Project Engineer



Approved by (name + signature).....:

Simple Guan
Project Manager



Date of issue.....

January 20, 2022

Revision History

Revision	Issue Date	Revisions	Revised By
V0	January 20, 2022	Initial released Issue	Lucas Pang

1. Test Result Summary

Requirement	CFR 47 Section	Result
RF EXPOSURE	§1.1307(b)(1) & KDB680106	PASS

Note:

1. *PASS: Test item meets the requirement.*
2. *Fail: Test item does not meet the requirement.*
3. *N/A: Test case does not apply to the test object.*
4. *The test result judgment is decided by the limit of test standard.*

2. EUT Description

2.1. Description of Device (EUT)

EUT Name	:	Magnetic wireless charger
Model No.	:	Maghold S01
DIFF.	:	N/A
Trademark	:	ESORUN
Power supply	:	Type-C Input : DC 5V/2A, DC 9V/2A, DC 9V/1.34A, DC 12V/2A Wireless Output : DC 5V/1A(5W), DC 9V/0.83A(7.5W), DC 9V/1.12A(10W), DC 9V/1.67A(15W)
Operation frequency	:	125~205KHz
Modulation	:	MSK
Antenna Type	:	Coil Antenna, Maximum Gain is 0dBi(This value is supplied by applicant).
Connector cable loss	:	0.5dB (This value is supplied by applicant).
Software version	:	V1.0
Hardware version	:	V1.0

Conditions requirement	Answers
Power transfer frequency is less than 1 MHz.	After measuring the product the transfer frequency is 125-200KHz
Output power from each primary coil is less than or equal to 15 watts.	After measuring the product the each primary coil power is 15 watts
The transfer system includes only single primary and secondary coils. This includes charging systems that may have multiple primary coils and clients that are able to detect and allow coupling only between individual pairs of coils.	The transfer system includes only single primary.
Client device is placed directly in contact with the transmitter.	Client device is placed directly in contact with the transmitter.
Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).	Mobile exposure conditions only.
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.	After measuring the product the Max H-field Strength is 0.756A/m Far less than 50% of the MPE limit.

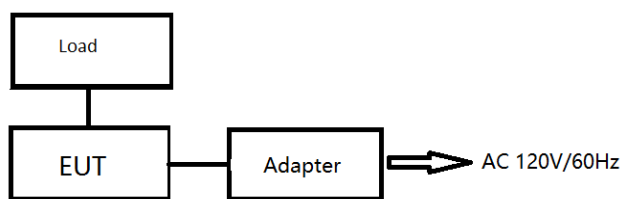
2.2. Accessories of Device (EUT)

Accessories1	:	/
Manufacturer	:	/
Model	:	/
Ratings	:	/

2.3. Tested Supporting System Details

No.	Description	Manufacturer	Model	Serial Number	Certification or SDOC
1	Adapter	Huoniu	HNFCQC3024U U	--	--
2	Load	--	--	--	--

2.4. Block Diagram of connection between EUT and simulators



2.5. Description of Test Modes

Channel	Frequency (KHz)
1	140

2.6. Test Conditions

Items	Required	Actual
Temperature range:	15-35℃	24℃
Humidity range:	25-75%	56%
Pressure range:	86-106kPa	98kPa

2.7. Test Facility

Shenzhen Alpha Product Testing Co., Ltd

Building i, No.2, Lixin Road, Fuyong Street, Bao'an District, 518103, Shenzhen, Guangdong, China

June 21, 2018 File on Federal Communication Commission
Registration Number: 293961

July 15, 2019 Certificated by IC
Registration Number: CN0085

2.8. Measurement Uncertainty

(95% confidence levels, $k=2$)

Item	Uncertainty
Uncertainty for H-Field	2.39dB
Uncertainty for E-Field	2.45dB
Uncertainty for conducted RF Power	0.65dB
Uncertainty for temperature	0.2°C
Uncertainty for humidity	1%
Uncertainty for DC and low frequency voltages	0.06%

- ### 3.1.1. Test Specification

3.1.2. Test Instruments

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Exposure Level Tester	narda	ELT-400	N-0231	2021.08.30	1 Year
2	Magnetic field probe 100cm2	narda	ELT probe 100cm2	M0675	2021.08.30	1 Year
3	Isotropic Electric Field Probe	narda	EP-601	511WX60706	2021.08.30	1 Year

3.1.3. Test data

For Full load mode:

E-Field Strength at 15 cm for position A, B, C, D 20cm for position E from the edges surrounding the EUT (V/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Limit (50%) (V/m)	Limits Test (V/m)
0.125-0.200	4.36	4.33	4.28	4.25	4.30	307	614

H-Filed Strength at 15 cm for position A, B, C, D 20cm for position E from the edges surrounding the EUT (A/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Limit (50%) (A/m)	Limits Test (A/m)
0.125-0.200	0.756	0.634	0.587	0.632	0.723	0.815	1.63

For Half load mode:

E-Field Strength at 15 cm for position A, B, C, D 20cm for position E from the edges surrounding the EUT (V/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Limit (50%) (V/m)	Limits Test (V/m)
0.125-0.200	3.28	3.52	3.26	3.53	3.12	307	614

H-Filed Strength at 15 cm for position A, B, C, D 20cm for position E from the edges surrounding the EUT (A/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Limit (50%) (A/m)	Limits Test (A/m)
0.125-0.200	0.502	0.523	0.516	0.530	0.458	0.815	1.63

For Null load mode:

E-Field Strength at 15 cm for position A, B, C, D 20cm for position E from the edges surrounding the EUT (V/m)

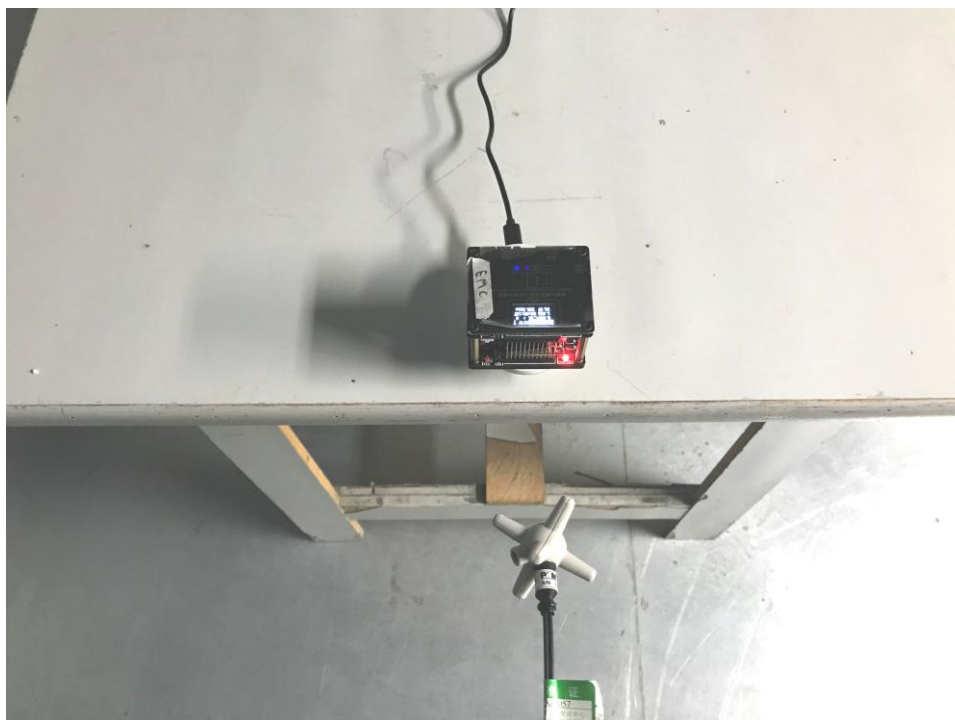
Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Limit (50%) (V/m)	Limits Test (V/m)
0.125-0.200	2.65	2.13	2.54	2.54	2.11	307	614

H-Filed Strength at 15 cm for position A, B, C, D 20cm for position E from the edges surrounding the EUT (A/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Limit (50%) (A/m)	Limits Test (A/m)
0.125-0.200	0.321	0.324	0.324	0.313	0.307	0.815	1.63

Note: μT to A/m: $\text{A/m} = \mu\text{T}/1.25$

4. Photos of test setup



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