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MPE TEST REPORT

Report No: STS1711115W02

Issued for

YULIN TECH CO., LTD.

No.504, 5 Floor, Kaizhongzhahui park, Huan Road No.8,
Zhongkai Hi-tech Industry Park, Huizhou, Guangdong
Province, 516006, P.R. China

Product Name:	Wireless Charger TX Pad
Brand Name:	N/A
Model Name:	WTS-H001A - 001
Series Model:	WTS-H001A-002, WTS-H001A-003, WTS-H001A-004, WTS-H001A-005, WTS-H001A-006, WTS-H001A-007, WTS-H001A-008, WTS-H001A-009, WTS-H001A-0010
FCC ID:	2AKDFWTS-H001A-001
Test Standard:	FCC CFR 47 part 1, 1.1310

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TEST RESULT CERTIFICATION

Applicant's name : YULIN TECH CO., LTD.
 No.504, 5 Floor, Kaizhongzhahui park, Huaan Road No.8,
 Address : Zhongkai Hi-tech Industry Park, Huizhou, Guangdong Province,
 516006, P.R. China

Manufacture's Name : YULIN TECH CO., LTD.
 No.504, 5 Floor, Kaizhongzhahui park, Huaan Road No.8,
 Address : Zhongkai Hi-tech Industry Park, Huizhou, Guangdong Province,
 516006, P.R. China

Product description

Product Name: Wireless Charger TX Pad
 Brand Name: N/A
 Model Name.....: WTS-H001A - 001
 Series Model: WTS-H001A—002, WTS-H001A—003, WTS-H001A—
 004, WTS-H001A—005, WTS-H001A—006, WTS-H001A—
 —007, WTS-H001A—008, WTS-H001A—009,
 WTS-H001A—0010

Standards : FCC CFR 47 part 1, 1.1310
 Test Procedure : 680106 D01 RF Exposure Wireless Charging Apps v02

This device described above has been tested by STS, the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Date of performance of tests: 15 Nov. 2017~16 Nov. 2017
 Date of Issue : 17 Nov. 2017
 Test Result : **Pass**

Testing Engineer : *Sean She*

 (Sean she)

Technical Manager : *Hakim.hou*

 (Hakim.hou)

Authorized Signatory : *Vita Li*

 (Vita Li)





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Revision History

Rev.	Issue Date	Report NO.	Effect Page	Contents
00	17 Nov. 2017	STS1711115W02	ALL	Initial Issue



1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:
 FCC KDB 680106 D01 RF Exposure Wireless Charging Apps v02

FCC CFR 47			
Standard Section	Test Item	Judgment	Remark
FCC CFR 47 part1, 1.1310 KDB680106 D01v02 (3)(3)	Electric Field Strength (E) (V/m)	PASS	
	Magnetic Field Strength (H) (A/m)	PASS	

1.1 TEST FACTORY

Shenzhen STS Test Services Co., Ltd.
 Add. : 1/F., Building B, Zhuoke Science Park, No.190, Chongqing Road,
 Fuyong Street, Bao'an District, Shenzhen, Guangdong, China
 CNAS Registration No.: L7649; FCC Registration No.: 625569
 IC Registration No.: 12108A; A2LA Certificate No.: 4338.01;

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expended 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	All emissions,radiated(<30M)(9KHz-30MHz)	$\pm 2.45\text{dB}$
2	Temperature	$\pm 0.5^\circ\text{C}$
3	Humidity	$\pm 2\%$

1.3 GENERAL DESCRIPTION OF EUT

Product Name	Wireless Charger TX Pad
Trade Name	N/A
Model Name	WTS-H001A - 001
Series Model	WTS-H001A-002, WTS-H001A-003, WTS-H001A-004, WTS-H001A-005, WTS-H001A-006, WTS-H001A-007, WTS-H001A-008, WTS-H001A-009, WTS-H001A-0010
Model Difference	Only different in model name and color
Equipemnt Category	Non-ISM frequency
Operating frequency	110 KHz ~205KHz
Test frequency	127 KHz ~175KHz
Modulation Type	GFSK
Power Adapter	DC 9V
Hardware version number	Y123010000010
Software version number	WTS-H001A-V1.10

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
- 2.

Channel List					
Channel	Frequency (KHz)	Channel	Frequency (KHz)	Channel	Frequency (KHz)
00	150				

3. Table for Filed Antenna

Ant	Brand	Model Name	Antenna Type	Connector	NOTE
1	N/A	WTS-H001A - 001	Coil	N/A	Antenna

The EUT antenna is Coil Antenna. No antenna other than that furnished by the responsible party shall be used with the device.



1.4 EQUIPMENTS LIST FOR ALL TEST ITEMS

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
EMF Meter	NARDA	ELT-400	N-0342	2017.10.23	2018.10.22
EMF probe	NARDA	B-Field Probe	M-0779	2017.10.23	2018.10.22
Broadband field meter NARDA NBM	550	Broadband field meter NARDA NBM	E-1275	2017.10.23	2018.10.22
Broadband field probe NARDA EF	0391	Broadband field probe NARDA EF	D-0894	2017.10.23	2018.10.22



2. MAXIMUM PERMISSIBLE EXPOSURE

2.1 MAXIMUM PERMISSIBLE EXPOSURE

Limit of Maximum Permissible Exposure

Limits for Occupational / Controlled Exposure				
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842 / f	4.89 / f	(900 / f)*	6
30-300	61.4	0.163	1.0	6
300-1500			F/300	6
1500-100,000			5	6

Limits for General Population / Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180 / f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-100,000			1	30

Note 1: f = frequency in MHz ; *Plane-wave equivalent power density

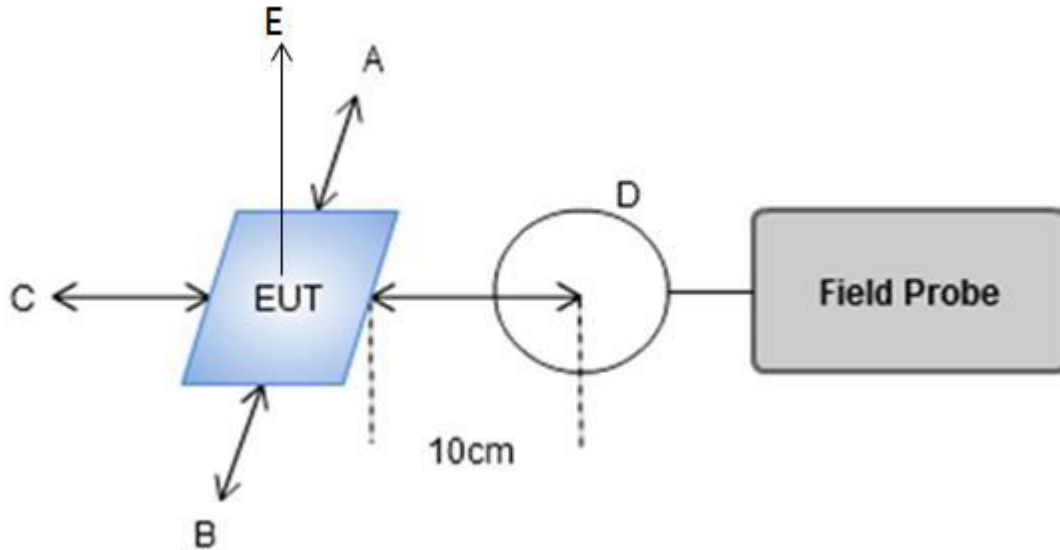
Note 2: For the applicable limit, see FCC 1.1310, 680106 D01 RF Exposure Wireless Charging Apps v02

Note 3: Emissions between 100 kHz to 300 kHz should be assessed versus the limits at 300 kHz in Table 1 of Section 1.1310: 614 V/m and 1.63 A/m. A KDB inquiry is required to determine the applicable exposure limits below 100 kHz.

2.2 TEST PROCEDURE

- a. For devices designed for typical desktop applications, such a wireless charging pads, RF exposure evaluation should be conducted assuming a user separation distance of 10 cm. E and H field strength measurements or numerical modeling may be used to demonstrate compliance. Measurements should be made from all sides and the top of the primary/client pair, with the 10 cm measured from the center of the probe(s) to the edge of the device.

2.3 TEST SETUP



2.4 RESULT OF MAXIMUM PERMISSIBLE EXPOSURE

Maximum Permissible Exposure				
Charging	Separation	Probe from EUT Side	E-field (V/m)	H-field (A/m)
< 1% Battery	10cm	A	1.36	0.343
< 1% Battery	10cm	B	1.42	0.358
< 1% Battery	10cm	C	1.53	0.334
< 1% Battery	10cm	D	1.48	0.346
< 1% Battery	10cm	E	5.25	0.336
Limit			614	1.63
Margin Limit (%)			0.86%	21.96%



Maximum Permissible Exposure				
Charging	Separation	Probe from EUT Side	E-field (V/m)	H-field (A/m)
50% Battery	10cm	A	1.76	0.343
50% Battery	10cm	B	1.68	0.358
50% Battery	10cm	C	1.70	0.362
50% Battery	10cm	D	1.66	0.349
50% Battery	10cm	E	5.56	0.535
Limit			614	1.63
Margin Limit (%)			0.91%	26.75%

Maximum Permissible Exposure				
Charging	Separation	Probe from EUT Side	E-field (V/m)	H-field (A/m)
>99% Battery	10cm	A	1.89	0.368
>99% Battery	10cm	B	1.92	0.377
>99% Battery	10cm	C	1.95	0.380
>99% Battery	10cm	D	1.90	0.375
>99% Battery	10cm	E	6.04	0.684
Limit			614	1.63
Margin Limit (%)			0.98%	41.96%

MPE SETUP PHOTO



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