



FCC TEST REPORT

FCC ID: 2ADDW-WPA01

On Behalf of

Shenzhen Topband Co., Ltd

Wireless Charger

Model No.: WPA01

Prepared for : Shenzhen Topband Co., Ltd
Address : Topband Industrial Park, Liyuan Industrial Zone, Shiyan
: Town, Bao'An District, Shenzhen 518108, China

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 Topband Co., Ltd

Address : Topband Industrial Park, Liyuan Industrial Zone, Shiyan Town, Bao'an District, Shenzhen 518108, China

Manufacturer : Shenzhen Topband Co., Ltd

Address : Topband Industrial Park, Liyuan Industrial Zone, Shiyan Town, Bao'an District, Shenzhen 518108, China

EUT Description : Wireless Charger

(A) Model No. : WPA01

(B) Trademark : Topband

Measurement Standard Used:

FCC CFR Title 47 Part 15 Subpart C

FCC KDB 680106 D01 RF Exposure Wireless Charging Apps v03

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 of test. Also, this report shows that the EUT is technically compliant with the FCC CFR Title 47 Part 15 Subpart C 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).....: Ella Liang
Project Engineer



Approved by (name + signature).....: Simple Guan
Project Manager



Date of issue.....: March 13, 2020

Revision History

Revision	Issue Date	Revisions	Revised By
V0	March 13, 2020	Initial released Issue	Simple Guan

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 : Wireless Charger
 Model No. : WPA01
 DIFF. : N/A
 Trademark : Topband
 Power supply : Input : DC 5V/2A, DC 9V/2A max
 Output : DC 5W, 7.5W, 10W max
 Operation frequency : 125-205KHz
 Modulation : MSK
 Antenna Type : Coil Antenna

 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 125-205KHz
Output power from each primary coil is less than or equal to 15 watts.	After measuring the product the each primary coil power is 10 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 0.67A/mFar less than 50% of the MPE limit.

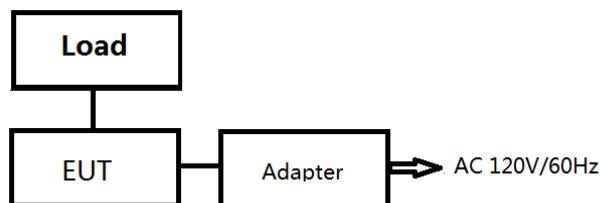
2.2. Accessories of Device (EUT)

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

2.3. Tested Supporting System Details

No.	Description	Manufacturer	Model	Serial Number	Certification or DOC
1	Wireless Load	--	--	--	--
2	Adapter	--	--	--	--

2.4. Block Diagram of connection between EUT and simulators



2.5. Description of Test Modes

Channel	Frequency (KHz)						
1	125	6	150	11	175	16	200
2	130	7	155	12	180	17	205
3	135	8	160	13	185	18	
4	140	9	165	14	190	19	
5	145	10	170	15	195	20	

Note: Pre-San all output power modes, and only worst data listed in report (DC 9V/2A).

2.6. Test Conditions

Items	Required	Actual
Temperature range:	15-35°C	24°C
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

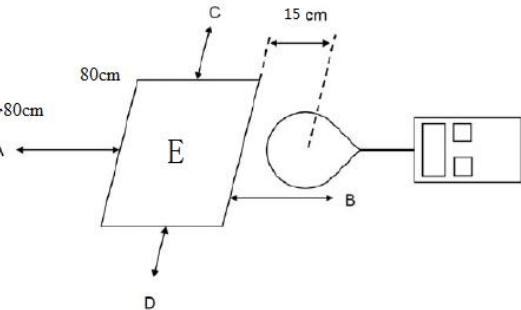
(95% confidence levels, k=2)

Item	Uncertainty
Uncertainty for Conducted Emission Test	2.74dB
Uncertainty for Radiation Emission test in 3m chamber (30MHz to 1GHz)	3.77dB
	3.80dB
Uncertainty for Radiation Emission test in 3m chamber (1GHz to 25GHz)	4.16dB
	4.13dB
Uncertainty for radio frequency Uncertainty for Conducted Emission Test	5.4×10^{-8}
	2.74dB
Uncertainty for Radiation Emission test in 3m chamber (30MHz to 1GHz)	3.77dB
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. Test Results and Measurement Data

3.1. RF EXPOSURE TEST

3.1.1. Test Specification

Test Requirement:	FCC Rules and Regulations KDB680106
Test Method:	§1.1307(b)(1) & KDB680106
Limits:	According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines. According to §1.1310 and §2.1093 RF exposure is calculated. According KDB680106 D01v03: RF Exposure Wireless Charging Apps v02.
Test Setup:	 <p>E to position is 20cm.</p>
Test Procedure:	<ol style="list-style-type: none"> 1. The RF exposure test was performed on table in anechoic chamber. 2. The measurement probe was placed at test distance (15cm) which is between the edge of the charger and the geometric centre of probe. 3. The highest emission level was recorded and compared with limit as soon as measurement of each points (A, B, C, D, E) were completed. 4. The EUT were measured according to the dictates of KDB 680106D01v03.
Test Result:	PASS

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	2019.09.11	1 Year
2	Magnetic field probe 100cm ²	narda	ELT probe 100cm ²	M0675	2019.09.11	1 Year

3.1.3. Test data

For Full load mode:

E-Filed Strength at 15 cm 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)
0.205	5.85	5.82	5.80	5.83	5.85	307	614

H-Filed Strength at 15 cm 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)
0.205	0.65	0.63	0.66	0.67	0.64	0.815	1.63

Remark: All modes have been tested. This Report only show the test result of the worst case (Full load).

4. Photos of test setup

For Full load mode



For No load mode



5. Photographs of EUT

Refer to test report A2003041-C01-R01.

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