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FCC TEST REPORT

Client Name	: Dongguan Tyjin Electronics Co., Ltd.
Address	Room 101, Building 2, No.7 Keyan Road Wulian Village, Fenggang Town Dongguan,Guangdong China 523690
Product Name	: Wireless Charging mouse pad

Date : Oct. 27, 2020



Shenzhen Anbotek Compliance Laboratory Limited

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TEST REPORT

Applicant	Dongguan Tyjin Electronics Co., Ltd.
Manufacturer	[:] Dongguan Tyjin Electronics Co., Ltd.
Product Name	: Wireless Charging mouse pad
Model No.	[:] C-082, CP-WCMP-001
Trade Mark	EX N.A. httporek Anborek Anborek Anborek Anborek Anborek
Rating(s)	Input : DC 5V, 2A/ DC 9V, 1.67A Output: 5W/7.5W/10W
Test Standard(s) Test Method(s)	 FCC Part 1.1310, 1.1307(b) KDB680106 D01 RF Exposure Wireless Charging Apps v03

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited 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 Shenzhen Anbotek Compliance Laboratory Limited 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 Part 1.1307 & KDB680106 D01 requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Receipt Date of Test Sept. 11, 2020 Sept. 11~Oct. 19, 2020

Tilia Zhong

(Engineer / Yilia Zhong)

Bibs Thank

(Supervisor / Bibo Zhang)

Kingkon JIN

(Manager / Kingkong Jin)

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Reviewer

Prepared By

Approved & Authorized Signer



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1. General Information

1.1. Client Information

Applicant	Dongguan Tyjin Electronics Co., Ltd.
Address	Room 101, Building 2, No.7 Keyan Road Wulian Village, Fenggang Town Dongguan,Guangdong China 523690
Manufacturer	Dongguan Tyjin Electronics Co., Ltd.
Address	Room 101, Building 2, No.7 Keyan Road Wulian Village, Fenggang Town Dongguan,Guangdong China 523690
Factory	Dongguan Tyjin Electronics Co., Ltd.
Address	Room 101, Building 2, No.7 Keyan Road Wulian Village, Fenggang Town Dongguan,Guangdong China 523690

1.2. Description of Device (EUT)

Product Name	:	Wireless Charging mouse	pad Anbolek Anboundek Anbolek Anbo				
Model No.	:	C-082, CP-WCMP-001 (Note: All samples are the s we prepare "C-082" for test	same except the model number & appearance, so t only.)				
Trade Mark	:	N.A. httporek probotek	Anbotek Anbotek Anbotek Anbotek				
Test Power Supply	:	AC 120V, 60Hz for adapter	AC 240V, 60Hz for adapter				
Test Sample No.	:	1-2-1(Normal Sample), 1-2	1-2-1(Normal Sample), 1-2-1(Engineering Sample)				
		Operation Frequency:	110.1-210KHz				
Product		Modulation Type:	ASK				
Description	:	Antenna Type:	Inductive loop coil Antenna				
		Antenna Gain(Peak):	0 dBi				

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1.3. Auxiliary Equipment Used During Test

Adapter	:	Adapter M/N: A2013	hotek	Anbore	Am
		Input: 100-240V-0.7A 50-60Hz			
		Output: 3.6-5.5V 3A / 6.5-9V 2A	A / 9-12V 1.5A	botek	

1.4. Test Equipment List

20	Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
>1	1 1	Magnetic field meter	NARDA	ELT-400	423623	Dec. 23, 2019	1 Year
	2	E-Field Probe	Narda	EF0391	Q15221	Nov.17, 2017	3 Year
1	3	H-Field Probe	Narda	HF3061	Q15835	Nov.17, 2017	3 Year

1.5. Measurement Uncertainty

Radiation Uncertainty	:	Ur = 3.9 dB (Horizontal)	Anbor	An abotek	Anboten
		Ur = 3.8 dB (Vertical)			
		ak abotek Anbote	Anot	ak anbotek	Anbor
Conduction Uncertainty	:	Uc = 3.4 dB	oten Ano	otek Anbot	iek Anbor

1.6. Description of Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC-Registration No.: 184111

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registed and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No. 184111, September 30, 2020.

ISED-Registration No.: 8058A

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A, September 30, 2020.

Test Location

Shenzhen Anbotek Compliance Laboratory Limited.

1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. 518102

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2. Measurement and Result

2.1. Requirements

According to the item 5.b) of KDB 680106 D01v03:

Inductive wireless power transfer applications that meet all of the following requirements are excluded from submitting an RF exposure evaluation.

1) Power transfer frequency is less that 1 MHz

2) Output power from each primary coil is less than or equal to 15 watts.

3) 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

4) Client device is inserted in or placed directly in contact with the transmitter

5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion)

6) 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.

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
	(A) Limits for Occ	upational/Controlled Ex	posures	
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	1	1	f/300	6
1500-100,000	1	1	5	6
	(B) Limits for Genera	I Population/Uncontrolle	d 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	1	1	f/1500	30
1500-100,000	1	1	1.0	30

Limits For Maximum Permissible Exposure (MPE)

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).

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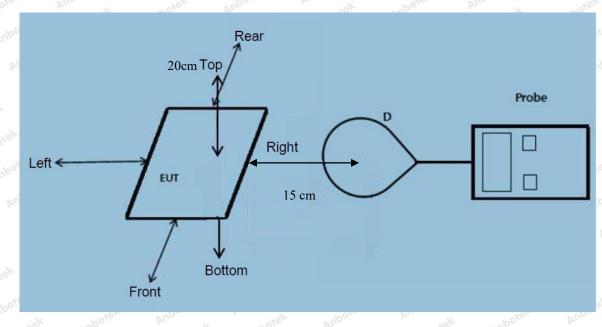
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2.2. Test Setup



Note: Measurements should be made at 15 cm surrounding the EUT and 20cm above the top surface of the EUT.

2.3. Test Procedure

1) The RF exposure test was performed in anechoic chamber.

2) The measurement probe was placed at required test distance which is between the edge of the charger and the geometric center 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.(A is the right, B is the back, C is the left, D is the front, and E is the top.) 4) The EUT was measured according to the dictates of KDB 680106 D01 v03.

Remark;

The EUT's test position A, B, C, D and E is valid for the E and H field measurements

2.4. Test Result

2.4.1. Equipment Approval Considerations item 5.b of KDB 680106 D01 v03.

- 1) Power transfer frequency is less that 1 MHz
 - The device operate in the frequency range 110.1-210KHzKHz
- 2) Output power from each primary coil is less than 15 watts
- The maximum output power of the primary coil is 10W.

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3) 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 including a charging system with one primary coils is to detect and allow only between individual pairs of coils.Only one coil works at a time.

- 4) Client device is inserted in or placed directly in contact with the transmitter
 - Client device is placed directly in contact with the transmitter.

5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion)The EUT is a Mobile Power Pack with Wireless Charger.

6) 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.
Conducted the measurement with the required distance and the test results please refer to the section 2.4.2

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2.4.2. Environmental evaluation and exposure limit according to FCC CFR 47 part 1, 1.1307(b), 1.1310

Temperature:	23.8°C	Relative Humidity:	54%
Pressure:	1012 hPa	Test Voltage:	AC 120V, 60Hz for adapter

E-Field Strength at 15 cm surrounding the EUT and 20cm above the top surface of the EUT

Anbote	Frequency	Test	Test	Test	Test	Test	Reference	Limits
Battery	Range	Position	Position	Position	Position	Position	Limit	Test
power	(KHz)	A	B B	C	D	E	(V/m)	(V/m)
otek Anb	110.1-210	pote ^{lk}	0.58	0.20	0.69	1.00	otek 207 Anbo	et An
1%	KHz	0.22	Anbotek	0.39	0.68	1.08	307	614
50%	110.1-210 KHz	1.58	1.14 M	0.85	1.2	1.78	307	614
99%	110.1-210 KHz	2.4	2.99	2.29	2.58	2.63	307	614
Stand-by	110.1-210 KHz	0.22	0.35	0.57	0.88	0.18	307	614

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Battery power	Frequency Range (KHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Reference Limit (A/m)	Limits Test (A/m)
1%	110.1-210 KHz	0.45	0.21	0.37	0.68	0.46	0.815	1.63
50%	110.1-210 KHz	0.19	0.03	0.27	0.44	0.53	0.815	1.63
99%	110.1-210 KHz	0.02	0.78	0.77	0.44	0.08	0.815	1.63
Stand-by	110.1-210 KHz	0.55	0.03	0.30	0.55	0.63	0.815	1.63

H-Field Strength at 15 cm surrounding the EUT and 20cm above the top surface of the EUT

Note: (1)All the situation has been tested, only the worst situation (Wireless Output: 10W) was recorded in the report.

-- End of Report -

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