

 Report No.: 18220WC10121602
 FCC ID:2AQI5-CD186
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FCC TEST REPORT

 Client Name
 : Ugreen Group Limited

 Address
 : UGREEN Building, Longcheng Industrial Park, Longguanxi Road, Longhua, ShenZhen China 518000

Product Name : Wireless Charger

Date : Aug. 31, 2021



Shenzhen Anbotek Compliance Laboratory Limited

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Applicant	, eV	Ugreen Group Limited
Manufacturer	0,00	Ugreen Group Limited
Product Name	: p:	Wireless Charger
Model No.	:	CD186, 80537
Trade Mark	et	UGREE

Rating(s)

Input: 5V==2A, 9V==2A, 12V==2A Output: 15W Max, compatible with 10W, 7.5W and 5W

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

Prepared By

Jun. 09, 2021 Jun. 10~ Aug. 13, 2021

Flla Liana

(Ella Liang)

Kingkungin

(Kingkong Jin)

Approved & Authorized Signer

Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86) 755–26066440 Fax: (86) 755–26014772 Email: service@anbotek.com Code:AB-RF-05-a



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1. General Information

1.1. Client Information

Applicant	:	Ugreen Group Limited
Address	:	UGREEN Building, Longcheng Industrial Park, Longguanxi Road, Longhua, ShenZhen China 518000
Manufacturer	:	Ugreen Group Limited
Address	:	UGREEN Building, Longcheng Industrial Park, Longguanxi Road, Longhua, ShenZhen China 518000

1.2. Description of Device (EUT)

Product Name	:	Wireless Charger	
Model No.	:	CD186, 80537 (Note: All samples are the "CD186" for test only.)	same except the model number, so we prepare
Trade Mark	:	UGREEN	Anbotek Anbotek Anbotek Anbotek Anbote
Test Power Supply	:	AC 120V, 60Hz for adapter/	AC 240V, 60Hz for adapter
Test Sample No.	:	1-2-1(Normal Sample), 1-2-	2(Engineering Sample)
		Operation Frequency:	111.1-205KHz
Product		Modulation Type:	FSK
Description	:	Antenna Type:	Inductive loop coil Antenna
		Antenna Gain(Peak):	0 dBi

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1.3. Auxiliary Equipment Used During Test

Adapter	: M/N: A2013
	Input: AC 100-240V, 0.7A, 50-60Hz
	Output: 3.6-5.5V=3A/ 6.5-9V=2A/ 9-12V=1.5A
Wireless charging	: Manufacturer: Shenzhen Ouju Technology Co., Ltd.
load	M/N: CD2874
	Power: 5W/7.5W/10W/15W
	Last Cal.: Oct. 26, 2020
	Cal. Interval: 1 Year

1.4. Test Equipment List

Iter	n Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
nooten	Magnetic field meter	NARDA	ELT-400	423623	Dec. 24, 2018	3 Year
2	E-Field Probe	Narda	EF0391	Q15221	Nov.17, 2020	3 Year
3	H-Field Probe	Narda	HF3061	Q15835	Nov.17, 2020	3 Year

1.5. Measurement Uncertainty

Radiation Uncertainty	:	Ur = 3.9 dB (Horizontal)	Anbore Ar	botek	Anbotek
		Ur = 3.8 dB (Vertical)	Anboro	An	Anboten
Conduction Uncertainty	:	Uc = 3.4 dB	Anbo, stek	Anbotek	Anbote.

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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	7	5	6
	(B) Limits for Genera	I Population/Uncontrolle	d Exposure	

Limits For Maximum Permissible Exposure (MPE)

*(100) 0.3-1.34 614 1.63 30 *(180/f²) 1.34-30 824/f 2.19/f 30 30-300 27.5 0.073 0.2 30 1 1 300-1500 f/1500 30 1500-100,000 1 1.0 30

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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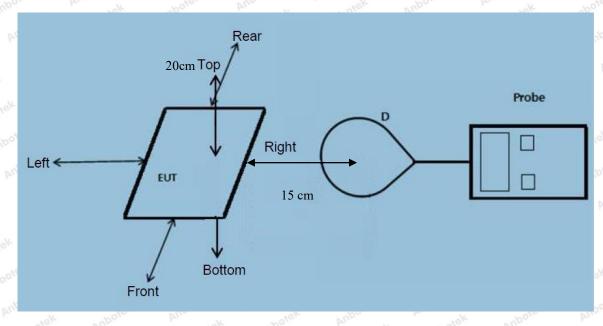
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2.2. Test Setup



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 111.1-205KHz.
- 2) Output power from each primary coil is less than 15 watts
- The maximum output power of the primary coil is 15W.

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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 only single primary coils is to detect and allow only between individual pairs of coils.

- 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 exposure conditions

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.

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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:	22.5°C	Relative Humidity:	49 %
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

				100			L	1261
Battery	Frequency Range	Test Positio	Test Position	Test Position	Test Position	Test Position	Reference Limit	Limits Test
power	(KHz)	n A	Borek	Cipote	tek DAnn	pote ^K E p	(V/m)	(V/m)
Anbotek	Anbo	Anbotek	Anbor	-ok An	botek	Anbotek	Anbo	Anbotek
1%	111.1-205	0.35	o.44 🔊	0.39	0.40	0.52	307	614
tek Anbo	ren Anbo	let M	botek	Anbore ok	Anthotek	Anboten	Anbo	N nab
botek pi	botek Anb	-otek	Anbotek	Anbore	Annobote	K Anbo	ren Anbo	
50%	111.1-205	1.43	1.87	1.36	1.49	1.66	307	614
Annotek	Anboten	Ano	onbote	K Anbo	P.I.	botek	Anboten I	und stek
Annobotek	Anboten	Anbe	ek anb	otek Ar	port I	botek	Anboten	
99%	111.1-205	2.48	2.88	2.49	2.44	2.90	307	614
Ant Ant	otek Anbo	er pr	ou rek	nbotek	Anbore	P.I.	ek Anbote	Anb
bour An	abotek Ar	poter	Anbo	anbotek	Anboro	Part Pure	potek Anbr	pter. P
Stand-by	111.1-205	0.43	0.58	0.42	0.41	0.55	307	614
Anbore	An	Anbotek	Anbo	tek and	potek P	nbor	All	Anboten

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		D.C.Y	10	60	Per-	100	19.4 P	
Battery	Frequency	Test	Test	Test	Test w	Test	Reference	Limits
power	Range	Position	Position	Position	Position	Position	Limit	Test
k Anbore	(KHz)	А	stek B An	C	D	AntErek	(A/m)	(A/m)
stek anb	ptek Aupo.	rek h	obotek	Anbore	Ann hotek	Anbotek	Aupo	14
1%	111.1-205	0.025	0.047	0.053	0.037	0.047	0.815	1.63
notek	Anbotek	Anbo.	Antobotek	Anbote.	Anu	otek An	potek Ant	o. tek
Antobotek		Anbo	nbot	sk Aupo	re An	botek	Anbotek	
50%	111.1-205	0.38	0.47	0.37	0.37	0.54	0.815	1.63
ALL DC	tek Anboth	an Aupr	Hek	nbotek	Anbore	An-botek	Anboten	Anbo
Not Ann	botek Ant	oten Al	too stek	Anbotek	Anbore	K shot	k Anbote	
99%	111.1-205	0.50	0.68	0.57	0.39	0.38	0.815	1.63
Anboten		Anbotek		K sbot	ek pulo	oten Ant	Lotek b	
Anboten	Anboshotek	Anbotek	Aupor	stell no	potek I	Inboton	And botek	Anbotek
Stand-by	111.1-205	0.50	0.32	0.42	0.54	0.40	0.815	1.63
ek Anbo		stek pp	potek I	nbor	Allabotek	Anboten	Anotek	

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

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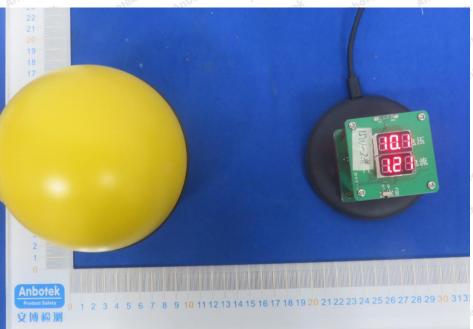


Photo of MPE Measurement

APPENDIX I -- TEST SETUP PHOTOGRAPH

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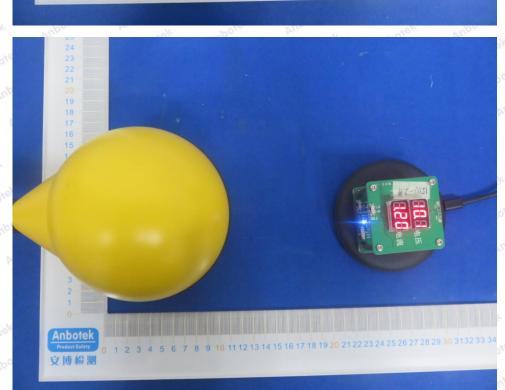


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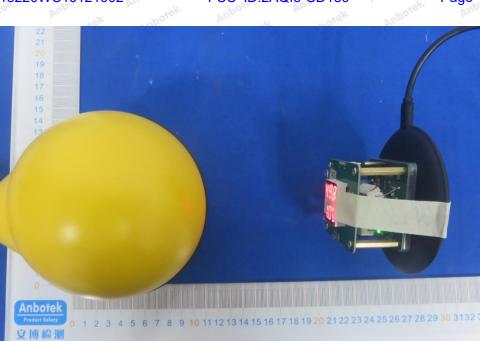


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