

FCC TEST REPORT

Client Name : Ugreen Group Limited

Address UGREEN Building,Longcheng Industrial Park

Longguanxi Road, Longhua, Shen Zhen, China

Product Name : HiTune T2 True Wireless Earbuds Charging Case

Date : Mar. 12, 2021





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TEST REPORT

Applicant : Ugreen Group Limited

Manufacturer : Ugreen Group Limited

Product Name : HiTune T2 True Wireless Earbuds Charging Case

Model No. : WS105, 80652, 80653, 30613, 30614

Trade Mark : **UGREEN**

Rating(s) Input: DC 5V, 400mA(with DC 3.7V, 500 mAh Battery inside)

Wireless input: DC 5V, 400mA

Test Standard(s) : FCC Part 1.1310, 1.1307(b)

Test Method(s) : 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	Jan. 20, 2021
Date of Test	Jan. 20~Feb. 04, 2021
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Prepared By	or k hotek Anbore Ant
And work Anbotek Anbor tek abotek	(Engineer / Yilia Zhong)
	this thang
Reviewer	Anto Lak Vootek Anton Anton
or Anbotek Anbotek Anbotek Anbotel	(Supervisor / Bibo Zhang)
	King Kong Jin
Approved & Authorized Signer	no oky abotek Anbor k ar otek
Anbotek Anbotek Anbotek	(Manager / Kingkong Jin)

Shenzhen Anbotek Compliance Laboratory Limited

Code:AB-RF-05-a





1. General Information

1.1. Client Information

Applicant	: Ugreen Group Limited	500
Address	UGREEN Building,Longcheng Industrial Park Longguanxi Road,Longhua, ShenZhen, China	Vien Vien
Manufacturer	: Ugreen Group Limited	
Address	UGREEN Building,Longcheng Industrial Park Longguanxi Road,Longhua, ShenZhen, China	rek
Factory	: Dongguan Sendonglv Electronics Co.,Ltd	100th
Address	: 111,Nanjiang Road,Humen Town,Dongguan City,China	, A

1.2. Description of Device (EUT)

200	Plug 18 19 1001 VIII TK POLEY VILLE	
Product Name	HiTune T2 True Wireless Earbuds Charging Case	
Model No.	WS105, 80652, 80653, 30613, 30614 (Note: All samples are the same except the model number, so we prepa "WS105" for test only.)	re Ar
Trade Mark	UGREEN Anbotek Anbotek Anbotek Anbotek Anbotek	19
Test Power Supply	AC 120V, 60Hz for adapter	botek
Test Sample No.	1-2-1(Normal Sample), 1-2-2(Engineering Sample)	
	Operation Frequency: 111-205KHz	
Product	Modulation Type: ASK	×7
Description	Antenna Type: Inductive loop coil Antenna	ar ak
	Antenna Gain(Peak): 0 dBi	por

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



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1.3. Auxiliary Equipment Used During Test

P	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	7
	Wireless Charger	:	M/N: WD-265B	330
Vs			Input: 5V=2A, 9V=1.67A	do
			Output: 5V==1A, 9V==1.1A(10W max)	

1.4. Test Equipment List

Item	Equipment	ent Manufacturer M		Serial No.	Last Cal.	Cal. Interval
1 p	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)	Anbores Anborek Anbore
8		Ur = 3.8 dB (Vertical)	Anborek Anbotek Anb
9		Anbore And borek Anbore	Anbo otek Anbotek
Conduction Uncertainty	:	Uc = 3.4 dB	Anbotek Anbotek



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.

Limits For Maximum Permissible Exposure (MPE)

Frequency range (MHz)	ange Electric field strength (V/m) Magnetic field strength (A/m)		Power density (mW/cm²)	Averaging time (minutes)				
	(A) Limits for Occ	cupational/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	l Population/Uncontrolle	ed 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				

F=frequency in MHz

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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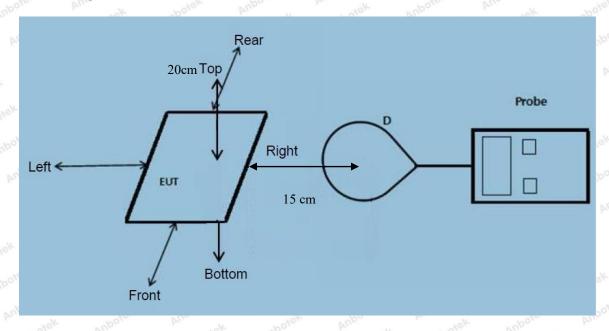
400-003-0500 www.anbotek.com

⁼Plane-wave equivalent power density



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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 111-205KHz.
- 2) Output power from each primary coil is less than 15 watts
 - The maximum output power of the primary coil is 2W.

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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:	23.8°C	Relative Humidity:	52 %
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

Battery power	Frequency Range (KHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Reference Limit (V/m)	Limits Test (V/m)
1%	111-205	0.32	0.41	0.33	0.39	0.46	307	614
50%	111-205	1.44	1.26	1.55	1.57	1.43	307	614
99%	111-205	2.42	2.26	2.21	2.35	2.56	307	614
Stand-by	111-205	0.32	0.51	0.34	0.38	0.51	307	614



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

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)
stek Anb	stek Anbo	rek br	opotek	Aupole, A	And	Anbotek	Vupo.	/c ber
1%	111-205	0.022	0.047	0.052	0.035	0.046	0.815	1.63
hotek		Anbore		Anboten	-K Anbo	otek An	potek Ant	1970 - 10 K
Aur	Anborek	Anbo. rek	hodo	ek Anbo	ie, Vu	hotek	Anborek	inpo.
50%	111-205	0.31	0.42	0.34	0.35	0.52	0.815	1.63
-k Anu	tek Anbore	yk Pupo	TABK DI	nbotek	Anbote.	And	Anbotek	Anbo
V. Viun	hotek Ant	lotek M	bo	anbotek	Anbore	k Pur	K Anbote	P.C.
99%	111-205	0.44	0.52	0.57	0.33	0.38	0.815	1.63
Anbore. K		Anbotek		k who!	ek Anb	ote. An	notek p	hbotek
Aupoten	Ann	Anbotek	Aupon	rek o	potek p	iupote - K	rus Potek	Anborek
Stand-by	111-205	0.54	0.33	0.47	0.52	0.46	0.815	1.63
ak Anbo	er Amo	stek an		rupo,	Al abotek	Anboten	Anos	anl

Note: (1)All the situation(full load, half load and empty load) has been tested, only the worst situation (full load 2W) was recorded in the report.

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APPENDIX I -- TEST SETUP PHOTOGRAPH





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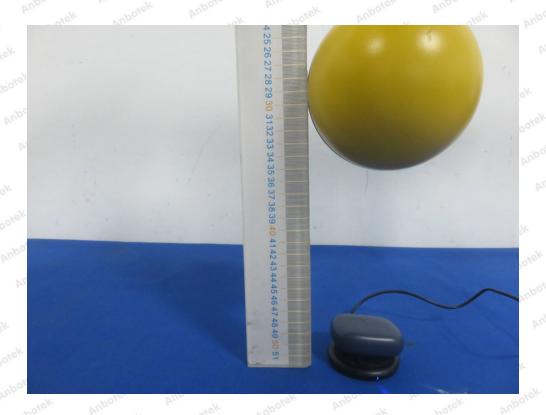
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