

 Report No.: 18220WC00167302
 FCC ID: 2AOKB-A2561
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FCC TEST REPORT

Client Name : Anker Innovations Limited

Address

Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon, Hongkong

Product Name : Wireless Charger

Date : Dec. 02, 2020



Shenzhen Anbotek Compliance Laboratory Limited

Shenzhen Anbotek Compliance Laboratory Limited

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Code:AB-RF-05-a



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TEST REPORT

Applicant :	Anker Innovations Limited
Manufacturer :	Anker Innovations Limited
Product Name :	Wireless Charger
Model No. :	A2561
Trade Mark :	ANKER
	Input: DC 5V, 2.4A/ DC 9V, 2A/ DC 12V, 2A/ DC 15V, 2A
Rating(s)	Mobile phone output: DC 5V, 1A/ DC 9V, 1.1A/ DC 12V, 1.25A Max
AND A	Power section: 5W/7.5W/10W/15W
	Headphone output: DC 5V, 1A
Test Standard(s) :	FCC Part 1.1310, 1.1307(b)

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.

KDB680106 D01 RF Exposure Wireless Charging Apps v03

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

Reviewer

Test Method(s)

Nov. 11, 2020 Nov. 11~Dec. 01, 2020

Yilia Zhong

(Engineer / Yilia Zhong)

Bibs thank

(Supervisor / Bibo Zhang)

King Kong Jin

Approved & Authorized Signer

(Manager / Kingkong Jin)

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1. General Information

1.1. Client Information

Applicant	: Anker Innovations Limited
Address	Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon, Hongkong
Manufacturer	: Anker Innovations Limited
Address	Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon, Hongkong
Factory	: Gopod Group Holding Limited .
Address	 4-5-6/F, Building 8 & 1F, Building 3#, LianJian Science and Technology Industrial Park, HuaRong Rd, Tongsheng Community, DaLang Street, LongHua District, Shenzhen

1.2. Description of Device (EUT)

Product Name	:	Wireless Charger	botek Anbotek Anbotek Ant
Model No.	:	A2561	Anbotek Anbotek Anbotek Anbotek
Trade Mark	:	ANKER	Anbotek Anbotek Anbotek Anbotek
Test Power Supply	:	AC 120V, 60Hz for adapte	er Anbotek Anbotek Anbotek Anbotek Anbotek
Test Sample No.	:	1-2-1(Normal Sample), 1-	-2-1(Engineering Sample)
		Operation Frequency:	110.1-205KHz
Product		Modulation Type:	FSK Andread Andread
Description	•	Antenna Type:	Inductive loop coil Antenna
		Antenna Gain(Peak):	0 dBi Model Andre Andre Andre

or the User's Manual.

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1.3. Auxiliary Equipment Used During Test

NOV.		MO.	pro-	101	100	06	NO.
N/A	:	Anstotek	Anbotek	Anbu	Anbotek	Anboro	Amerobotek

1.4. Test Equipment List

0	Item	Equipment	Manufacturer	anufacturer Model No.		Last Cal.	Cal. Interval	
25	poter	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 nb	H-Field Probe	Narda	HF3061	Q15835	Nov.17, 2020	3 Year	

1.5. Measurement Uncertainty

Radiation Uncertainty	:	Ur = 3.9 dB (Horizontal)	Anbore Ann	k Anboten p
		Ur = 3.8 dB (Vertical)	Anbor An	otek Anboter
		And hotek Anbote	Anbo otek	nbotek Anbote
Conduction Uncertainty	:	Uc = 3.4 dB	ster Anbo hotek	Anbotek Anbot

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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	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

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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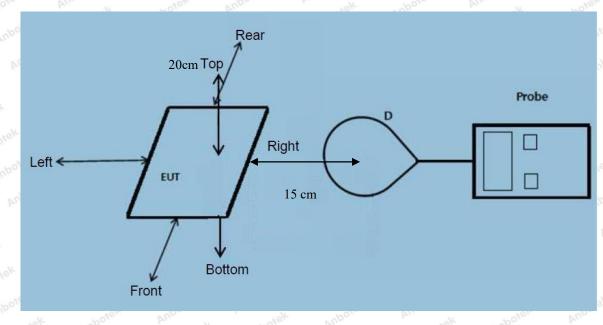
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2.2. Test Setup



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 110.1~205KHz
- 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 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:	23.6°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

nbo.	Frequency	Test	Test	Test	Test	Test	Reference	Limits
Battery	Range	Position	Position	Position	Position	Position	Limit	Test
power	(KHz)	Anbore	B Anbo	С	mboteD	Anbote	(V/m)	(V/m)
Anboro	Lek abo	ek Anb	oten pr	hotek	Anbotek	Anboic	K abotek	Anbo
1% M	110.1~205	0.03	-0.06	0.21	0.59	1.26	307	614 🙀
	nboir Ai	abotek	Anboten	And	Anbo	ok Ant	or bu	botek
Anbotek	Anbor	nbotek	Anboro	Ano	stek Ar	potek	inbo. Hek	nbotek
50%	110.1~205	1.14	1.21	1.34	1.37	1.33	307	614
	Anbor	ek ob	Hek An	poter P	nu votek	Anbotek	Anbo, tek	All abo
ek Anbc	tek Anbo.	stek p.	botek	Anbore	Andhotek	Anbote	Anbo	et h
99%	110.1~205	2.23	2.59	2.6	2.41	2.44	307	614
	Anbotek	Anbor	An	Anboter	Anto	otek	nbotek An	po.
Anu hotek	Anbotek	Anbo	Anbote	K Anbc	to. An	hotek	Anbotek	Anborntek
Stand-by	110.1~205	0.35	0.35	0.56	0.07	0.86	307	614
	ek anbote	k Aupo	tek Ar	obotek	Anboten	Anusotek	Anbotek	Anbo

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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)
ek ant	otek Anbo	Nek Pri	abotek	Anboron	Anos	Anbote	Aupon	ek.
1%	110.1~205	0.36	0.81	0.34	0.36	0.07	0.815	1.63
Anbore	Antobotek	Anbotek	k ho	iek Anb	otok Al	pote P	nbotek	Anbotek
50%	110.1~205	0.76	0.26	0.64	0.33	0.71	0.815	1.63
prib	wotek An	potek P	nbote	Antobotek	Anbotek	Anbo	rek anbot	64
99%	110.1~205	0.58	0.08	0.05	0.39	0.43	0.815	1.63
Anboten	Anbebotek	Anbotel	Aupo	-telt	obotek	Anboren	Ann hotek	Anbote
Stand-by	110.1~205	0.81	0.65	0.77	0.33	0.11	0.815	1.63

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

Remark: All the conditions have been tested. It is found that Wireless Output(15W) work simultaneously is the worst mode, and the data in the report only reflects the worst mode.

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APPENDIX I -- TEST SETUP PHOTOGRAPH

Please refer to separated files for Test Setup Photos of the EUT.

APPENDIX II -- EXTERNAL PHOTOGRAPH

Please refer to separated files for External Photos of the EUT.

APPENDIX III -- INTERNAL PHOTOGRAPH

Please refer to separated files for Internal Photos of the EUT.

---- End of Report ---

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