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# **FCC TEST REPORT**

Client Name Gopod Group Limited.

6/F., 235 Wing Lok Trade Centre, Sheung Wan, Hong Address

Kong, China

Product Name 3-in-1 wireless charging Pad

Date Jun. 28, 2020





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## TEST REPORT

Applicant : Gopod Group Limited.

Manufacturer : Gopod Group Limited.

Product Name : 3-in-1 wireless charging Pad

Model No. : GW17A, D362B, W17B, W17C, W17D

Trade Mark : N.A.

Input: DC 5V, 3A; DC 9V, 3A

Rating(s) Wireless Output1: 5/7.5/10W

Wireless Output2: 5W Apple Watch Output: 2W

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	Jun. 01, 2020
Date of Test	Jun. 01~12, 2020
	Doly Mo
Prepared By	k hotek Anbote And tek nobotek
k Anbotek Anbo	(Engineer / Dolly Mo)
	Bib Thong
Reviewer	Am hotek Anbotek Jos tek anbotek
Anbotek Anbotek Anbotek Anbote	(Supervisor / Bibo Zhang)
	k And Janbole And tok unbotek
Approved & Authorized Signer	on Chien
	(Manager / Tom Chen)

**Shenzhen Anbotek Compliance Laboratory Limited** 





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## 1. General Information

### 1.1. Client Information

- 00		
Applicant	:	Gopod Group Limited.
Address	:	6/F., 235 Wing Lok Trade Centre, Sheung Wan, Hong Kong, China
Manufacturer	:	Gopod Group Limited.
Address	:	6/F., 235 Wing Lok Trade Centre, Sheung Wan, Hong Kong, China
Factory	:	Gopod Group Limited.
Address	:	6/F., 235 Wing Lok Trade Centre, Sheung Wan, Hong Kong, China

## 1.2. Description of Device (EUT)

260,		- NO.	A STATE OF THE STA						
Product Name	:	3-in-1 wireless charging Pa	ad Anborek Anborek Anborek Anborek						
Model No.	:	GW17A, D362B, W17B, W (Note: All samples are the "GW17A" for test only.)	17C, W17D same except the appearance color, so we prepare						
Trade Mark		N.A.	upotek Anbotek Anbors Anbotek						
Test Power Supply	:	AC 120V, 60Hz for adapter	C 120V, 60Hz for adapter						
Test Sample No.	:	1-2-1(Normal Sample), 1-2	-1(Engineering Sample)						
		Operation Frequency:	110.1-205KHz						
Product		Modulation Type:	FSK Anbotek Anbotek Anbotek						
Description	-	Antenna Type:	Inductive loop coil Antenna						
		Antenna Gain(Peak):	0 dBi						

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

Adapter	:	Manufacturer: Anker Innovations Limited	
		M/N: A2013 Input: 100-240V~50-60Hz Output: 3.6-6.5V== 3A/ 6.5-9V== 2A/ 9-12V== 1.5A	26
Apple Watch		Manufacturer: Apple	pi
Airpods	:	Manufacturer: Apple	1

### 1.4. Test Equipment List

Item	Equipment	Manufacturer	anufacturer Model No. Serial N		Last Cal.	Cal. Interval
1	Magnetic field meter	NARDA	ELT-400	423623	Dec. 24, 2018	3 Year
2	E-Field Probe	Narda	EF0391	Q15221	Nov.17, 2017	3 Year
3	H-Field Probe	Narda	HF3061	Q15835	Nov.17, 2017	3 Year

## 1.5. Measurement Uncertainty

Radiation Ur	ncertainty	:	Ur = 3.9 dB (Ho	rizontal)	Lotek at	botek	Anbore An
n'			Ur = 3.8 dB (Ve	rtical)	no hotek	Anborek	Anbo.
			- Anbotek	Anbore	Andhotek	Anbotek	Anboatek
Conduction	Uncertainty	:	Uc = 3.4 dB	Anbore	Annabotek	Aupore	Anbo Lotel



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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 27, 2019.

#### 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, March 07, 2019.

#### **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)

		A. A. D.	DAY		
Frequency range Electric field streng (MHz) (V/m)		Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging tim (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 <sup>2</sup> )	6	
30-300	61.4	0.163	1.0	6	
300-1500	1	1	f/300	6	
1500-100,000	/	1	5	6	
	(B) Limits for Genera	l Population/Uncontrolle	d Exposure	+	
0.3-1.34	614	1.63	*(100)	30	
1.34-30	824/f	2.19/f	*(180/f <sup>2</sup> )	30	
30-300	27.5	0.073	0.2	30	
300-1500	1	1	f/1500	30	
1500-100,000	/	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).



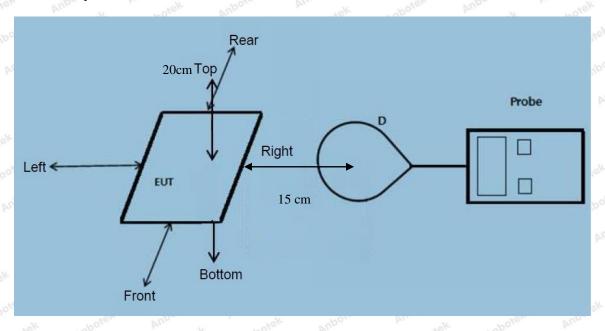


<sup>\*=</sup>Plane-wave equivalent power density



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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 110.1~205KHz
- 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 is an end-product that includes three pairs of source-client WPT coils. The three coil pairs can powered on at the same time and always operate independently of each other.
- 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 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

Battery	Frequency	Test	Test	Test	Test	Test	Reference	Limits
57.	Range	Position	Position	Position	Position	Position	Limit	Test
power	(KHz)	Anbote	B Ambu	С	unbote D	Aupole Pok	(V/m)	(V/m)
Anboro	rek woo	ak Anb	OLER VI	potek	Anbotek	Aupor	k spotek	Anb
1%	110.1~205	0.49	0.34	0.26	0.47	0.89	307	<sup>614</sup>
lbotek p	upole W	abotek	Anbotek	Anbu	Anbo	ek but	ole Vun	botek
Anbotek	Anbore	anbotek .	Anbores	Y Aug	stek An	potek	Tupo, by	anbotek
50%	110.1~205	1.42	1.31	1.30	1.52	1.63	307	614
Anbotek	Aupore	ek vpc	Vek Vu	poten A	nbo	Anbotek	Auporg	VII.
ek Anbo	Kek Mupo,	rek h.	botek	Anbore	Andhotek	Anbote	Anbo	8/4 V
99%	110.1~205	2.28	2.33	2.17	2.44	2.10	307	614
botek h	Anbotek	Auporg	All.	Aupoles	k Anbo	orek p	abotek An	ore
And	Anborek	Aupo.	N. Anbore	k Anbo	ie. Vu	botek	Anbotek	Anbo. otek
Stand-by	110.1~205	0.37	0.40	0.75	0.68	0.55	307	614
K Anbs	ek Anbore	k Anbo	*ek bii.	nbotek	Aupolen	And	Anbotek	Anbo

Code: AB-RF-05-a

400-003-0500 www.anbotek.com



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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)
rek ant	Otek Anbe	iek An	abotek	Anbotek	Anbu	Anbote	Anbore	iek Va
1%	110.1~205	0.045	0.062	0.037	0.046	0.071	0.815	1.63
potek	anbotek	Anbore	Air	Anbore	K Anb	-otek D	obotek Ar	Pose
Auparotek	Anborek	Aupor	k	lek Aut	Ofer V	hotek	Anborek	Aupo,
50%	110.1~205	0.29	0.54	0.48	0.39	0.57	0.815	1.63
K And	otek Anbot	ek Anb	or b	abotek	Anboten	Andskotek	Anbotek	Anb
S. Vur	botek An	potek p	upo,	Abotek .	Anbore	Y VILL	cek Anbot	Sp.
99%	110.1~205	0.46	0.54	0.59	0.30	0.55	0.815	1.63
Anboten	Anburntek	anbotek	Aupora	ek wo	rek Ar	poter A	to tek	anbotek
Anboren	Ands	Anbotel	Aupo,	Par Brita	obotek	Anboten	And	Anbore
Stand-by	110.1~205	0.27	0.35	0.20	0.42	0.33	0.815	1.63
k Anbe	yen Anbo	rek .	obotek	Aupor	VI. Potek	Anbotek	Anbo	JK

Remark: All the conditions have been tested. It is found that Apple Watch Output(2W), Wireless Output1(10W) and Wireless Output2(5W) 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**

Photo of MPE Measurement

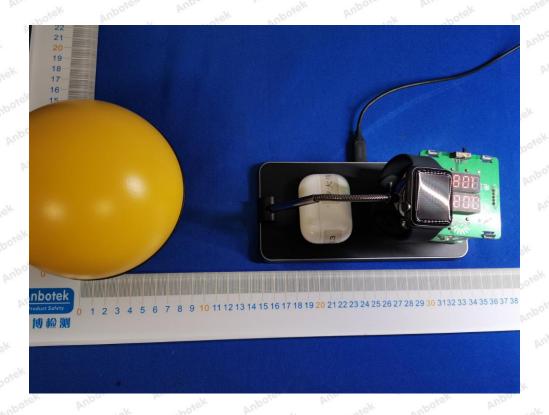


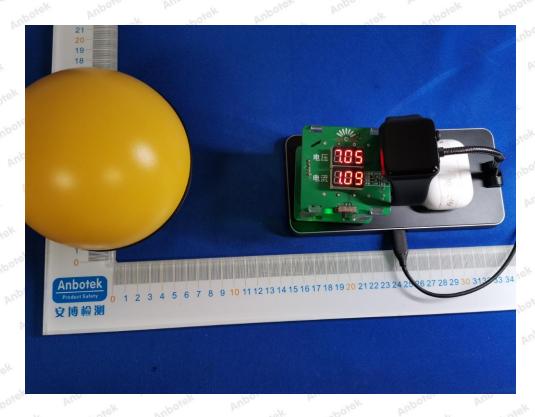


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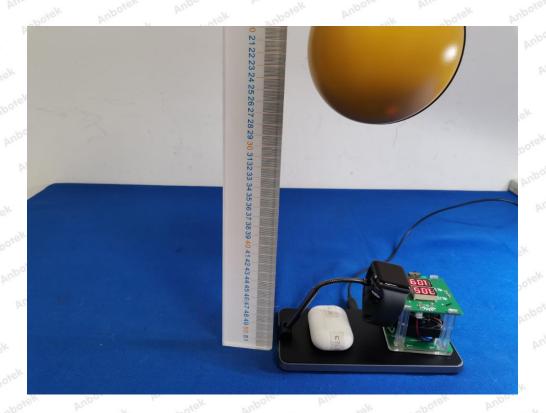




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