

Report No.: 18220WC40100402 FCC ID: 2AQZH-D481F3 Page 1 of 12

FCC Test Report

Gopod Group Limited. Applicant

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

Magnetic Qi2 Wireless Charging Car Mount Product Name

Report Date Jul. 30, 2024









Report No.: 18220WC40100402 FCC ID: 2AQZH-D481F3 Page 2 of 12

Contents

1. General Information				
1.1. Client Information	k wholes	Anbo	/ston	Anbor
1.2. Description of Device (EUT)		lek Aupor	W. Wek	boten
1.3. Auxiliary Equipment Used During	g Test	lan Yan	Joten And	
1.4. Description of Test Modes	aboter Ar	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	anbo'	
1.5. Test Equipment List	, dogsek	Anbore	Mak	poten Ano
1.6. Measurement Uncertainty			Anb	botek Anbo
1.7. Description of Test Facility	Anbe	Joo ^{tek}	Anbore	VII.
- SL	Anbore	by.	k Woles	And a
2. Measurement and Result	tek Popo,	er Anbe	Notok.	Anbore
2.1. Requirements		połek Anb	01. Dir.	k hoter
2.2. Test Setup	upor Ar	nte ^k	nboten And	Jorek Jorek
2.3. Test Procedure		Anb	botek Anh	1
2.4. Test Result	hotek	Aupor	bri.	anbores 1
APPENDIX I TEST SETUP PHOTOGR.		Aupoter	Anto	1
APPENDIX II EXTERNAL PHOTOGRA		.k hotel	Anbor	, , , , , , , , , , , , , , , , , , ,
APPENDIX III INTERNAL PHOTOGRA		P/4	iek vupojes	Antonia K. 1







Report No.: 18220WC40100402 FCC ID: 2AQZH-D481F3 Page 3 of 12

TEST REPORT

Applicant Gopod Group Limited.

Manufacturer Gopod Group Holding Limited

Product Name Magnetic Qi2 Wireless Charging Car Mount

Model No. D481F3

Trade Mark Gmobi

Input: 5V == 2A/9V == 2.22A Rating(s)

Output: 5W/7.5W/10W/15W

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

Test Method(s) KDB 680106 D01 Wireless Power Transfer v04

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.

Jun. 06, 2024

Date of Receipt

Date of Test Jun. 07, 2024 to Jun. 25, 2024

Illa Liang

Prepared By

(Ella Liang)

Idward pan

Approved & Authorized Signer

(Edward Pan)

Code: AB-RF-05-b





Report No.: 18220WC40100402 FCC ID: 2AQZH-D481F3 Page 4 of 12

Revision History

Report Version			Description			Issued Date		
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Report No.: 18220WC40100402 FCC ID: 2AQZH-D481F3 Page 5 of 12

1. General Information

1.1. Client Information

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Applicant	:	Gopod Group Limited.
Address	:	6/F., 235 Wing Lok Trade Centre, Sheung Wan, Hong Kong, China
Manufacturer	:	Gopod Group Holding Limited
Address	:	301, 4/F, 5/F, 6/F, Building#8 & 6/F, 7/F, Tower#C, Lian Jian Industrial Park II, Shang Henglang Community, DaLang St, LongHua Dist, Shenzhen, China
Factory	:	Gopod Group Holding Limited
Address	:	301, 4/F, 5/F, 6/F, Building#8 & 6/F, 7/F, Tower#C, Lian Jian Industrial Park II, Shang Henglang Community, DaLang St, LongHua Dist, Shenzhen, China

1.2. Description of Device (EUT)

Product Name	:	Magnetic Qi2 Wireless Charging Car Mount
Model No.	:	D481F3
Trade Mark	:	Gmobi otek Anbotek Anbotek Anbotek Anbotek Anbotek
Test Power Supply	:	AC 120V/60Hz for Adapter
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/A Anbotek Anbotek Anbotek Anbotek Anbotek
RF Specification		
Operation Frequency	:	110.1kHz-360kHz
Modulation Type	:	FSK Anbotek Anbotek Anbotek Anbotek
Antenna Type	:	Inductive loop coil Antenna
Remark: 1) All of the R	RF s	pecification are provided by customer. 2) For a more detailed features

Remark: 1) All of the RF specification are provided by customer. 2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.







Report No.: 18220WC40100402 FCC ID: 2AQZH-D481F3 Page 6 of 12

1.3. Auxiliary Equipment Used During Test

×	Title	Manufacturer	Model No.	Serial No.		
İ	Xiaomi 33W adapter	Xiaomi	MDY-11-EX	SA62212LA04358J		
4	Apple Phone	Apple	iPhone 12	DNPDJC7T0DYF		

1.4. Description of Test Modes

Pretest Modes	Descriptions
TM1	WTP Mode (5W 1% Load)
TM2	WTP Mode (5W 50% Load)
TM3	WTP Mode (5W 99% Load)
TM4	WTP Mode (7.5W 1% Load)
TM5	WTP Mode (7.5W 50% Load)
TM6	WTP Mode (7.5W 99% Load)
TM7	WTP Mode (10W 1% Load)
TM8	WTP Mode (10W 50% Load)
TM9	WTP Mode (10W 99% Load)
TM10	WTP Mode (15W 1% Load)
TM11	WTP Mode (15W 50% Load)
TM12	WTP Mode (15W 99% Load)
TM13	Standby Mode

1.5. Test Equipment List

o	Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
10	Anbotel	Electric and Magnetic field Analyzer	NARDA	EHP-200A	180ZX10202	Oct. 16, 2023	1 Year







Report No.: 18220WC40100402 FCC ID: 2AQZH-D481F3 Page 7 of 12

1.6. Measurement Uncertainty

Magnetic Field Reading(A/m)	:	+/-0.04282(A/m)	Anbotek Anbotek	Aupotek	Anbotek	Anbotek
Electric Field Reading(V/m)	:	+/-0.03679(V/m)	Anbotek	ak Anborek	Aupotek Vi.	k Anbotel

The measurement uncertainty and decision risk evaluated according to AB/WI-RF-F-032.

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

1.7. Description of Test Facility

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

FCC-Registration No.: 434132

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered 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. 434132.

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.

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.

1.8. Disclaimer

- 1. The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
- 2. The test report is invalid if there is any evidence and/or falsification.
- The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
- 4. This document may not be altered or revised in any way unless done so by Anbotek and all revisions are duly noted in the revisions section.
- 5. Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- 6. The authenticity of the information provided by the customer is the responsibility of the customer and the laboratory is not responsible for its authenticity.

The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

Code:AB-RF-05-b

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Report No.: 18220WC40100402 FCC ID: 2AQZH-D481F3 Page 8 of 12

2. Measurement and Result

2.1. Requirements

According to the item 5.b) of KDB 680106 D01v04:

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

- (1) The power transfer frequency is below 1 MHz.
- (2) The output power from each transmitting element (e.g., coil) is less than or equal to 15 watts.
- (3) A client device providing the maximum permitted load is placed in physical contact with the transmitter (i.e., the surfaces of the transmitter and client device enclosures need to be in physical contact)
- (4) Only § 2.1091-Mobile exposure conditions apply (i.e., this provision does not cover § 2.1093-Portable exposure conditions).
- (5) The E-field and H-field strengths, at and beyond 20 cm surrounding the device surface, are demonstrated to be less than 50% of the applicable MPE limit, per KDB 447498, Table 1. These measurements shall be taken along the principal axes of the device, with one axis oriented along the direction of the estimated maximum field strength, and for three points per axis or until a 1/d (inverse distance from the emitter structure) field strength decay is observed. Symmetry considerations may be used for test reduction purposes. The device shall be operated in documented worst-case compliance scenarios (i.e., the ones that lead to the maximum field components), and while all the radiating structures (e.g., coils or antennas) that by design can simultaneously transmit are energized at their nominal maximum power.
- (6) For systems with more than one radiating structure, the conditions specified in (5) must be met when the system is fully loaded (i.e., clients absorbing maximum power available), and with all the radiating structures operating at maximum power at the same time, as per design conditions. If the design allows one or more radiating structures to be powered at a higher level while other radiating structures are not powered, then those cases must be tested as well. For instance, a device may use three RF coils powered at 5 W, or one coil powered at 15 W: in this case, both scenarios shall be tested.







Report No.: 18220WC40100402 FCC ID: 2AQZH-D481F3 Page 9 of 12

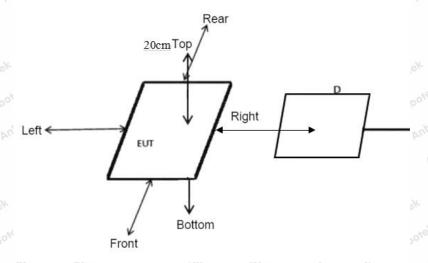
Limits For Maximum Permissible Exposure (MPE)

Frequency range (MHz)	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	Population/Uncontrolle	ed Exposure	ę-
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)

2.2. Test Setup



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

Shenzhen Anbotek Compliance Laboratory Limited

Code: AB-RF-05-b



^{*=}Plane-wave equivalent power density



Report No.: 18220WC40100402 FCC ID: 2AQZH-D481F3 Page 10 of 12

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 v04

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 v04.
- (1) The power transfer frequency is below 1 MHz.
- The device operate in the frequency range 110.1kHz-360kHz.
- (2) The output power from each transmitting element (e.g., coil) is less than or equal to 15 watts.
 - The maximum output power of the primary coil is 15W.
- (3) A client device providing the maximum permitted load is placed in physical contact with the transmitter (i.e., the surfaces of the transmitter and client device enclosures need to be in physical contact)
- The surfaces of the transmitter and client device enclosures is in physical contact.
- (4) Only § 2.1091-Mobile exposure conditions apply (i.e., this provision does not cover § 2.1093-Portable exposure conditions).
 - The EUT is a Mobile exposure conditions
- (5) The E-field and H-field strengths, at and beyond 20 cm surrounding the device surface, are demonstrated to be less than 50% of the applicable MPE limit, per KDB 447498, Table 1. These measurements shall be taken along the principal axes of the device, with one axis oriented along the direction of the estimated maximum field strength, and for three points per axis or until a 1/d (inverse distance from the emitter structure) field strength decay is observed. Symmetry considerations may be used for test reduction purposes. The device shall be operated in documented worst-case compliance scenarios (i.e., the ones that lead to the maximum field components), and while all the radiating structures (e.g., coils or antennas) that by design can simultaneously transmit are energized at their nominal maximum power.
 - Conducted the measurement with the required distance and the test results please refer to the section 2.4.







Report No.: 18220WC40100402 FCC ID: 2AQZH-D481F3 Page 11 of 12

- (6) For systems with more than one radiating structure, the conditions specified in (5) must be met when the system is fully loaded (i.e., clients absorbing maximum power available), and with all the radiating structures operating at maximum power at the same time, as per design conditions. If the design allows one or more radiating structures to be powered at a higher level while—other radiating structures are not powered, then those cases must be tested as well. For instance, a device may use three RF coils powered at 5 W, or one coil powered at 15 W: in this case, both scenarios shall be tested.
 - The EUT is one radiating structure.

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

Temperature:	23°C	Relative Humidity:	50 %
Pressure:	101 kPa	Test Voltage:	AC 120V/60Hz for Adapter

E-Field Strength at 20 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)
TM10	110.1-360	2.220	3.470	2.920	2.970	3.120	307	614
TM11	110.1-360	1.466	1.566	1.616	1.666	1.516	307	614
TM12	110.1-360	0.626	0.651	0.616	0.631	0.646	307	614
TM13	110.1-360	0.367	0.367	0.417	0.417	0.367	307	614

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

	WO.	O por	750.	VOV		No.	WO.	por .	210,
×	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)
	TM10	110.1-360	0.444	0.694	0.584	0.594	0.624	0.815	1.63
×	TM11	110.1-360	0.293	0.313	0.323	0.333	0.303	0.815	1.63
	TM12	110.1-360	0.125	0.130	0.123	0.126	0.129	0.815	1.63
7	TM13	110.1-360	0.073	0.073	0.083	0.083	0.073	0.815	1.63







Report No.: 18220WC40100402 FCC ID: 2AQZH-D481F3 Page 12 of 12

APPENDIX I -- TEST SETUP PHOTOGRAPH

Please refer to separated files Appendix I -- Test Setup Photograph_MPE

APPENDIX II -- EXTERNAL PHOTOGRAPH

Please refer to separated files Appendix II -- External Photograph

APPENDIX III -- INTERNAL PHOTOGRAPH

Please refer to separated files Appendix III -- Internal Photograph

----- End of Report -----



