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FCC TEST REPORT

Client Name : TELEPHONE EST (HK) CO., LTD

Address Room709,7F, FuLi tianhe commercial building,Linhe East

Road and tianhe district, Guangzhou, China

Product Name : QI Wireless Charger

Date : Jun. 03, 2019

Shenzhen Anbotek Compliance Laboratory Limited



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TEST REPORT

Applicant : TELEPHONE EST (HK) CO., LTD

Manufacturer : Telephone Est Electronics Factory(zhong shan)

Product Name : QI Wireless Charger

Model No. : MOV5001

Trade Mark : GOMOVI

Rating(s) : Input: DC 5V, 2A

Output: DC 5V, 1A

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	May 08, 2019
Date of Test	May 08~24, 2019
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Anbotek Anbotek	(Manager / Sally Zhang)

Shenzhen Anbotek Compliance Laboratory Limited





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1. General Information

1.1. Client Information

Applicant	••	TELEPHONE EST (HK) CO., LTD
Address	•••	Room709,7F, FuLi tianhe commercial building,Linhe East Road and tianhe district, Guangzhou, China
Manufacturer	:	Telephone Est Electronics Factory(zhong shan)
Address		No.2, Heyuan, Lianfeng Road, Xiaolan Town, Zhongshan City, Guangdong, China
Factory	:	Telephone Est Electronics Factory(zhong shan)
Address		No.2, Heyuan, Lianfeng Road, Xiaolan Town, Zhongshan City, Guangdong, China

1.2. Description of Device (EUT)

Product Name	:	QI Wireless Charger	otek Anbotek Anbote Anbotek
Model No.	:	MOV5001	nbotek Anbotek Anbotek Anbotek
Trade Mark	:	GOMOVI	Anbotek Anbotek Anbotek Anbotek
Test Power Supply	:	AC 120V, 60Hz for adapter	Anbotek Anbotek Anbotek Anbotek
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(I	Engineering Sample)
		Operation Frequency:	110.1-205KHz
Product		Modulation Type:	MSK
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.

1.3. Auxiliary Equipment Used During Test

Adapter	:	Manufacturer: Samsung M/N: ETA-U90CBC S/N: RT6FB17ZS/B-E Input: 100-240V~ 50-60Hz, 0.35A Output: DC 5V, 2A
		Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek
Mobile Phone	:	iPhone Andrew Andrew Andrew Andrew Andrew Andrew

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1.4. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1 tek	Magnetic field meter	NARDA	ELT-400	423623	Dec. 24, 2018	1 Year
1.mb2	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 Uncertainty	:	Ur = 3.9 dB (Horizontal)	Auport Ar	anbotek Ar	ipotek An
P		Ur = 3.8 dB (Vertical)	Anboatek	nbotek	Anbote
		ek abotek Anbotek	k Anbo	Anbotek	Anbore
Conduction Uncertainty	:	Uc = 3.4 dB	re. Yup	ek Anbotek	Anboro

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, July 31, 2017.

ISED-Registration No.: 8058A-1

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-1, June 13, 2016.

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

Hotline 400–003–0500 www.anbotek.com



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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)

requency range Electric field strength (V/m)		Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (minutes)						
(A) Limits for Occupational/Controlled Exposures										
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	/	/	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	/	/	1.0	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).

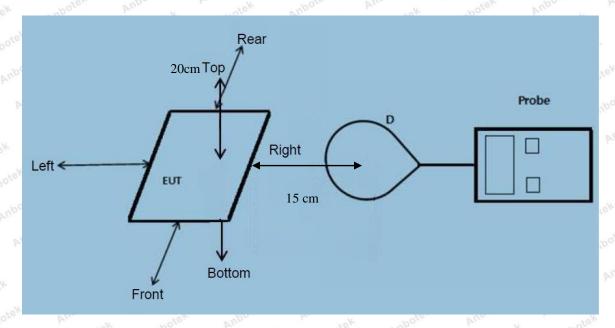
400-003-0500

⁼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.

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 5W.

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

Temperature:	23.9°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 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%	110.1-205	0.35	0.31	0.23	0.45	0.88	307	614
50%	110.1-205	1.43	1.23	1.22	1.37	1.84	307	614
99%	110.1-205	2.27	2.15	2.54	2.39	2.34	307	614
Stand-b y	110.1-205	0.32	0.48	0.52	0.35	0.66	307	614

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

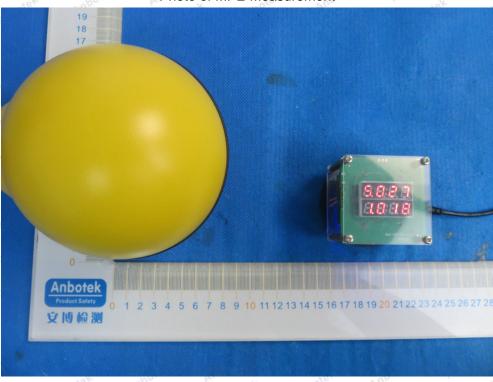
10.7		405	77			W. K. L.	· · · · · · · · · · · · · · · · · · ·	1.0
Battery	Frequency	Test	Test	Test	Test	Test	Reference	Limits
A.C.	Range	Position	Position	Position	Position	Position	Limit 1000	Test
power	(KHz)	AnbAen	An B motel	Canbot	K D Anbe	E Am	(A/m)	(A/m)
Anbo	Anbotek	Anbole	K PUL	kek Ant	otek A	100 P	anbotek	Anbote
1%	110.1-205	0.065	0.054	0.055	0.055	0.059	0.815	1.63
Aupo		kek Aul	oter A	no bek	Anbotek	Anboro	All. abotek	Anbo
ter Au	otek k	botek	Anboro	Ann	Anbotek	Anbot	ek abot	SK P
50%	110.1-205	0.26	0.45	0.53	0.37	0.49	0.815	1.63
Anbotek		Ai. abotek	Anboter	K Anbo	otek or	botek A	pore An	botek
Anbotek	Anbo	Anbote	k Pupo	ie. Vur	hotek	Anbotek	Anbore	anbotek
99%	110.1-205	0.53	0.52	0.44	0.33	0.35	0.815	1.63
cek Ant	otek Anbo	ick bi	nbotek	Anboten	Anbasotek	Anbotek	Anboto	K An
vote ^k	Anbotek Ar	lpo otek	anbotek	Anbote	And	ek Anbo	ek Aupor	orek by
Stand-b	110.1-205	0.47	0.21	0.32	0.57	0.39	0.815	1.63
Anbotek		Anbor	k 200	ek Anb	ster An	orek k	Anbotek	anborek

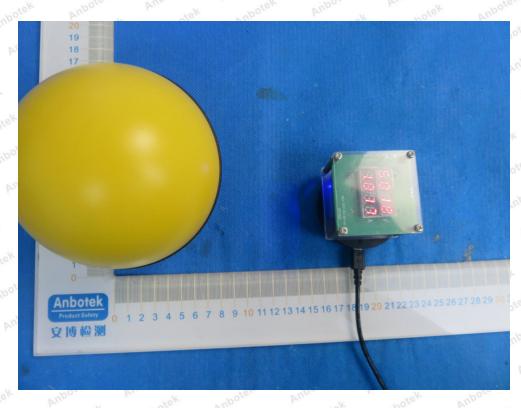


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APPENDIX I -- TEST SETUP PHOTOGRAPH

Photo of MPE Measurement

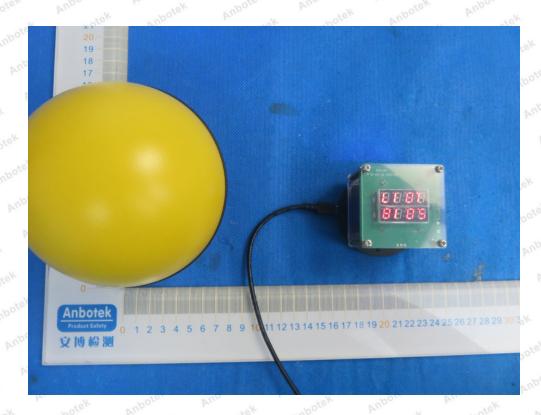


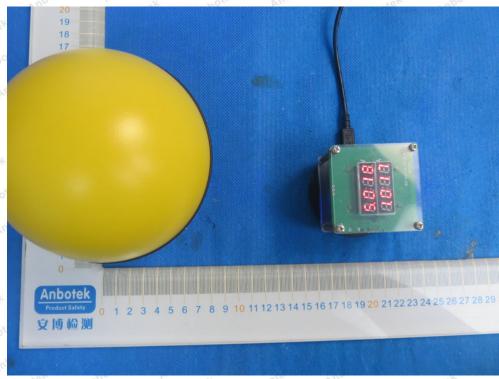


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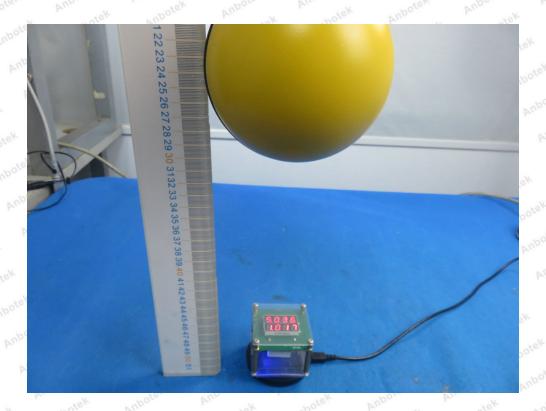
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