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# FCC Test Report

Applicant : TELEPHONE EST (HK) CO., LTD

Room709, 7F, FuLi tianhe commercial building,

Address : Linhe, East Road and tianhe district,

Guangzhou, China

Product Name : 15W Wireless Charging Pad

Report Date : Sept. 22, 2023

Shenzhen Anbotek Con Anbotek



ce Laboratory Limited









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## TEST REPORT

TELEPHONE EST (HK) CO., LTD Applicant

Telephone Est Electronics Factory (Zhong Shan) Manufacturer

**Product Name** 15W Wireless Charging Pad

2IHQI2125 Test Model No.

Reference Model No. 2IHQI2125B0L2

Trade Mark

Input: 5V-2A, 9V-2A Rating(s) Output: 15W Max

Test Standard(s) 47 CFR Part 15.209

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 above listed standard(s) 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:	Sept. 07, 2023
	And Otek Anborek Anbor All borek
Date of Test:	Sept. 07, 2023 to Sept. 14, 2023
Anbotek Anbotek Anbotek Anbotek Anbotek	Stellazhu
Prepared By:	)-(01/00/01/10
	(Stella Zhu)
	Bolward pan
Approved & Authorized Signer:	ek botek Anbo
	(Edward Pan)





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## **Revision History**

	Report Version	Description	Issued Date
	Anbore R00 potek An	Original Issue.	Sept. 22, 2023
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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, Chinas
Manufacturer	:	Telephone Est Electronics Factory (Zhong Shan)
Address	:	No.2 Heyuan Shengfeng Road,Xiaolan Town, Zhongshan, China
Factory	:	Telephone Est Electronics Factory (Zhong Shan)
Address	:	No.2 Heyuan Shengfeng Road,Xiaolan Town, Zhongshan, China

## 1.2. Description of Device (EUT)

7.00	4D-	γ -k κοι αν και αν
Product Name	:	15W Wireless Charging Pad
Test Model No.	:	2IHQI2125
Reference Model No.	:	2IHQI2125B0L2 (Note: All samples are the same except the model number and color, so we prepare "2IHQI2125" for test only.)
Trade Mark	:	IN/A anbotek Anbotek Anbotek Anbotek Anbo
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	:	110.1-205kHz
Modulation Type	:	FSK Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek
Antenna Type	:	Inductive loop coil Antenna
Antenna Gain(Peak)	:	0 dBiek Anborek Anborek Anborek
Remark:		Arm of the Modern And of the Manager Arm

- (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.





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### 1.3. Auxiliary Equipment Used During Test

	Title	Manufacturer	Model No.	Serial No.
	Xiaomi 67W adapter(CE)	Xiaomi	MDY-13-ES	WA622091100375G
16 JK	Apple Phone	Apple	iPhone 12	DNPDJC7T0DYF





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#### 1.4. Description of Test Modes

Pretest Modes	Descriptions	
hotek TM1nboten And	WTP Mode	Anbote. And

## 1.5. Measurement Uncertainty

Parameter	Uncertainty				
Conducted emissions (AMN 150kHz~30MHz)	3.4dB				
Radiated emissions (Below 30MHz)	3.53dB				
Radiated spurious emissions (30MHz~1GHz)	Horizontal: 3.92dB; Vertical: 4.52dB				

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.





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### 1.6. Test Summary

Test Items	Test Modes	Status	
Antenna requirement	Anbotek / Anbote	P	
Conducted Emission at AC power line	Mode1	P <sup>Anb</sup>	
Emissions in frequency bands (below 30MHz)	Mode1	b Vu	
Emissions in frequency bands (30MHz - 1GHz)	Mode1	inpose Br	
Note: P: Pass N: N/A pot applicable	Anbotek Anbotek	Anborek	





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#### 1.7. 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 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. 184111.

#### 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.518128

#### 1.8. Disclaimer

- 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.
- 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.







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## 1.9. Test Equipment List

Cond	ucted Emission at A	C power line				
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
· 1	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	2022-10-23	2023-10-22
zek 2	Three Phase V- type Artificial Power Network	CYBERTEK	EM5040DT	E215040D T001	2023-07-05	2024-07-04
3	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	2022-10-13	2023-10-12
4	Software Name EZ-EMC	Farad Technology	ANB-03A	N/A	rek /Anbotek	ah abotek

Emiss	sions in frequency ba	ands (below 30MHz)	anbotek Ar	Poser VI	hotek An	potek Anborr
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1 1	EMI Test Receiver	Rohde & Schwarz	ESPI7	101340	2023-02-22	2024-02-21
2	Pre-amplifier	Emtrace	RP01A	00517	2023-02-22	2024-02-21
30,000	Loop Antenna (9K- 30M)	Schwarzbeck	FMZB1519 B	00053	2022-10-23	2023-10-22
<sub>e</sub> 4	Software Name EZ-EMC	Farad Technology	ANB-03A	N/A	Anbotek / Ant	oter / Anton

Emiss	sions in frequency ba	ands (30MHz - 1GHz)	Anbotek	Aupote	Andorek	Anboiek
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
<b>1</b> ,nb	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2022-10-23	2023-10-22
2	Pre-amplifier	SONOMA	310N N	186860	2022-10-23	2023-10-22
3	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	2022-10-23	2025-10-22
4	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	Aup Asek	Anbore. A



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## 2. Antenna requirement

Test Requirement:

Refer to 47 CFR Part 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

#### 2.1. Conclusion

The antenna is a Inductive loop coil Antenna antenna which permanently attached, and the best case gain of the antenna is 0 dBi . It complies with the standard requirement.





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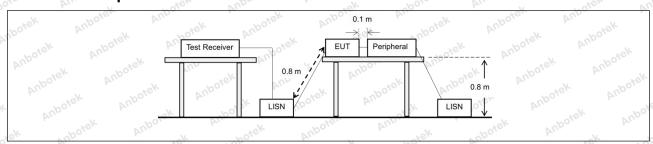
## 3. Conducted Emission at AC power line

Test Requirement:	Except as shown in paragraphs (b)and (c)of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line or any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 $\mu$ H/50 ohms line impedance stabilization network (LISN).					
or bu	Frequency of emission (MHz)	Conducted limit (dBµV)	Aupore			
abotek Anbo	Totek Anbore All	Quasi-peak	Average			
- isk " upoter	0.15-0.5	66 to 56*	56 to 46*			
Test Limit:	0.5-5	56 Anb	46			
shotek Anbo.	5-30 No. 100 Miles	60 NOTE AT	50			
An otek Anbore	*Decreases with the logarithm of	the frequency.	Anboten Anbo			
Test Method:	ANSI C63.10-2020 section 6.2	Anbore. And atek	anbotek Anb			
Procedure:	Refer to ANSI C63.10-2020 section line conducted emissions from un		od for ac power-			

## 3.1. EUT Operation

Operating Envi	ronment:	Aupoten	Vun.	nbotek	Aupo,	hotek.
Test mode:	1: TM1: WTP Mode	anbotek	Aupo	abotek	Aupore	VIII

## 3.2. Test Setup





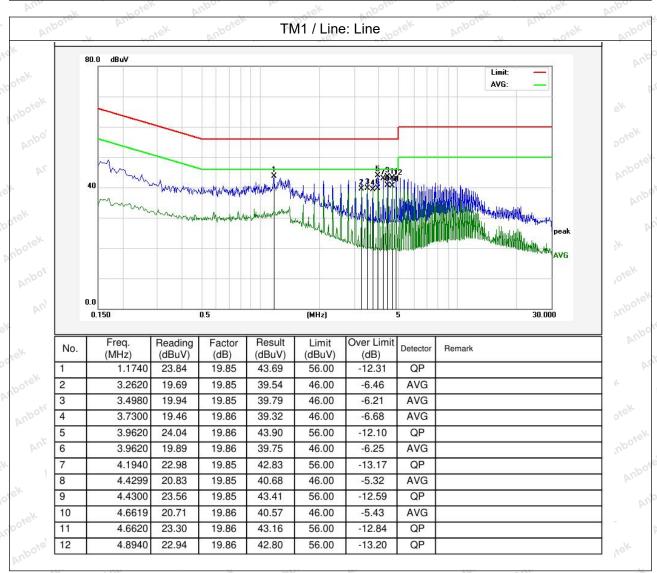
Hotline



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#### 3.3. Test Data

Temperature: 25.2 °C Humidity: 68 % Atmospheric Pressure: 96 kPa

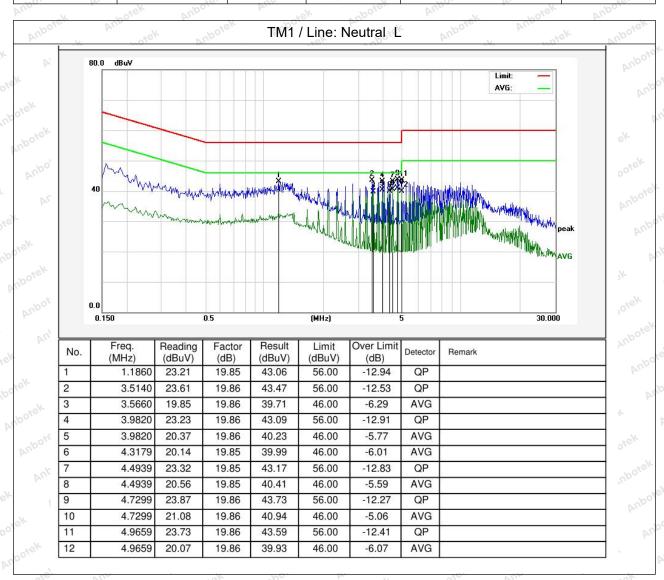






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Temperature: 25.2 °C Humidity: 68 % Atmospheric Pressure: 96 kPa







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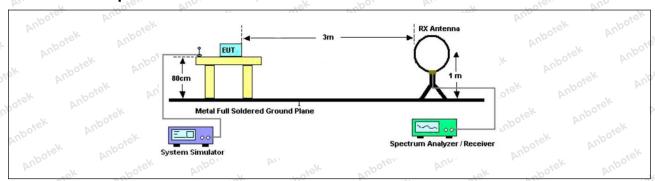
## 4. Emissions in frequency bands (below 30MHz)

Test Requirement:	47 CFR Part 15.209	Anbo. ok hotek An	oote And
Anbotek Anbotek	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30 400	30 Mpg.
poie, And	30-88	100 **	3 hotek
	88-216	150 **	3
Ando	216-960	200 **	3rek Anbor
	Above 960	500 36k Noote	3
	sections of this part, e.g., §§ 15.231 and 15.241.  As shown in § 15.35(b), for limits in paragraphs (a) and However, the peak field str maximum permitted average under any condition of more paragraph (b) of this section	these frequency bands is perminal of the second of the section are based on the ength of any emission shall not ge limits specified above by more limits. For point-to-point operan, the peak field strength shall references	the field strength average limits. exceed the re than 20 dB ation under
Test Method:	ANSI C63.10-2020 section	along the antenna azimuth.	iek Anbe
L. Spolo	An		Upote, Tun
Procedure:	ANSI C63.10-2020 section	0.4	

## 4.1. EUT Operation

o'	Operating Envir	onment: Anbore	Aug	nbotek	Aupo	Projek.	An
7	Test mode:	1: TM1: WTP Mode	Anbo tek	abotek	Anbore	All	

## 4.2. Test Setup





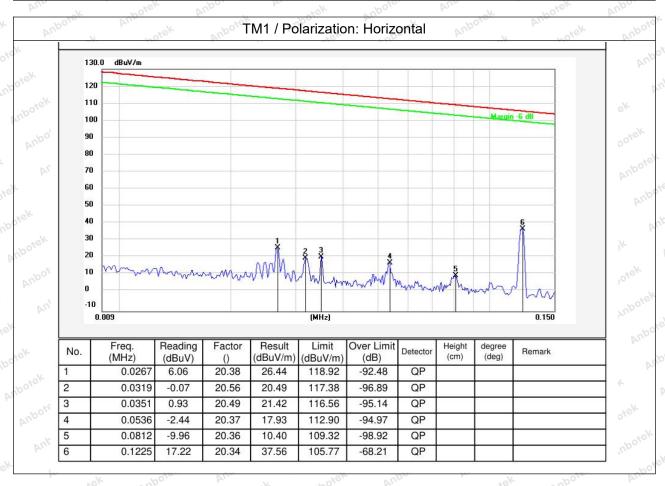




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#### 4.3. Test Data

Temperature: 22.2 °C Humidity: 52.6 % Atmospheric Pressure: 101 kPa

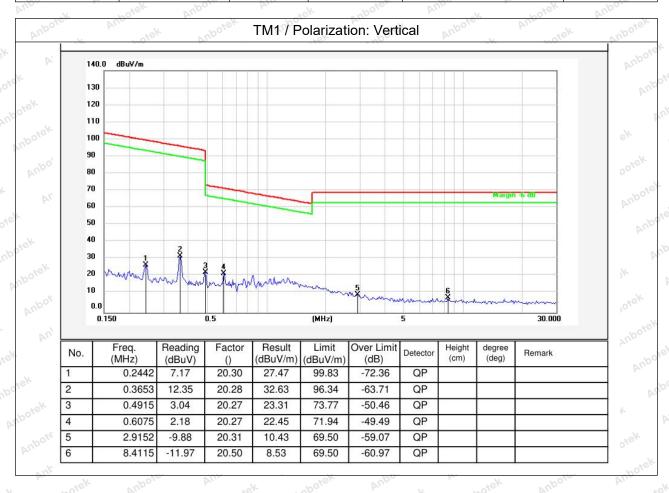






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Temperature: 22.2 °C Humidity: 52.6 % Atmospheric Pressure: 101 kPa







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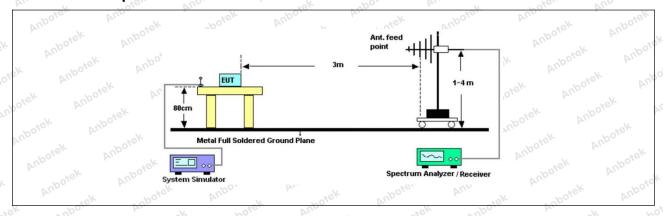
## 5. Emissions in frequency bands (30MHz - 1GHz)

Test Requirement:	47 CFR Part 15.209		
Anbotek Anbotek	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
Anbo	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30 <sup>2</sup>
	1.705-30.0	30 And And	30 Mupo,
Pur Vur	30-88	100 **	3 hotek
	88-216	150 **	3
And	216-960	200 **	3rek Anbor
	Above 960	500 tek mboke A	3
	sections of this part, e.g., §§ 15.231 and 15.241.  As shown in § 15.35(b), for limits in paragraphs (a) and However, the peak field str maximum permitted average under any condition of more paragraph (b)of this section	these frequency bands is permit  frequencies above 1000 MHz, (b)of this section are based on ength of any emission shall not ge limits specified above by more dulation. For point-to-point opera n, the peak field strength shall not salong the antenna azimuth.	the field strength average limits. exceed the e than 20 dB tion under
Test Method:	ANSI C63.10-2020 section	PULL SIGN YOU	ek abotek
Procedure:	ANSI C63.10-2020 section	6.5 stek Anbotek An	boss Wis

## 5.1. EUT Operation

o'l	Operating Envir	onment:	Anba	Anbotek	Aupo.	by, polek	An
	Test mode:	1: TM1: WTP Mode	Aupo	Spotek	Anboro	VIII.	

## 5.2. Test Setup





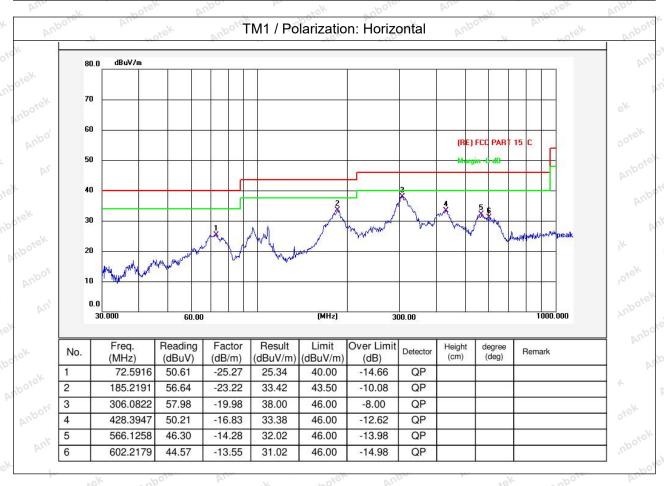




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#### 5.3. Test Data

Temperature: 24 °C Humidity: 56.2 % Atmospheric Pressure: 101 kPa

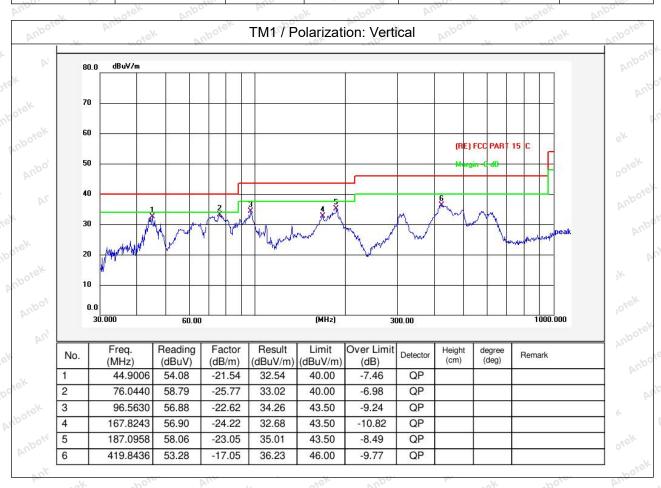






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Temperature: 24 °C Humidity: 56.2 % Atmospheric Pressure: 101 kPa







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### **APPENDIX I -- TEST SETUP PHOTOGRAPH**

Please refer to separated files Appendix I -- Test Setup Photograph\_RF

#### 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 -----

