

# FCC Test Report

**Report No.** : 1812C50033912502

**Applicant** : JMTEK TECHNOLOGY(ZHONGSHAN) CO., LTD

**Address** : 3F B3 and 3F B4 Chuangzhi Science Park,  
No.22 Xingpu Avenue East, Huangpu Town,  
Zhongshan City, Guangdong Province  
528429, China

**Product Name** : Wireless Charger

**Report Date** : Mar. 26, 2025

**Shenzhen Anbotek Compliance Laboratory Limited**



# Contents

1. General Information .....	5
1.1. Client Information .....	5
1.2. Description of Device (EUT) .....	5
1.3. Auxiliary Equipment Used During Test .....	6
1.4. Description of Test Modes .....	6
1.5. Test Equipment List .....	6
1.6. Measurement Uncertainty .....	6
1.7. Description of Test Facility .....	7
1.8. Disclaimer .....	7
2. Measurement and Result .....	8
2.1. Limits For Maximum Permissible Exposure (MPE) .....	8
2.2. Test Setup .....	8
2.3. Test Procedure .....	9
2.4. Test Result .....	9
APPENDIX I -- TEST SETUP PHOTOGRAPH .....	10
APPENDIX II -- EXTERNAL PHOTOGRAPH .....	10
APPENDIX III -- INTERNAL PHOTOGRAPH .....	10

## TEST REPORT

Applicant : JMTEK TECHNOLOGY(ZHONGSHAN) CO., LTD  
Manufacturer : JMTEK TECHNOLOGY(ZHONGSHAN) CO., LTD  
Product Name : Wireless Charger  
Model No. : HWPC420, HWPC420B, HWPC420W  
Trade Mark : N/A  
Input (USB-C):9V=3A  
USB-A Output:5V=1AMax  
Rating(s) : USB-C Output:5V=1AMax  
USB-A+USB-C Output: total 5V=2A Max  
Wireless Output:15W Max

**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.

Jan. 23, 2025

Date of Receipt

Date of Test

Jan. 23, 2025 to Feb. 10, 2025

Prepared By

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Approved & Authorized Signer

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(Hugo Chen)



Revision History

Report Version	Description	Issued Date
R00	Original Issue.	Mar. 26, 2025

## 1. General Information

### 1.1. Client Information

Applicant	:	JMTEK TECHNOLOGY(ZHONGSHAN) CO., LTD
Address	:	3F B3 and 3F B4 Chuangzhi Science Park, No.22 Xingpu Avenue East, Huangpu Town, Zhongshan City, Guangdong Province 528429, China
Manufacturer	:	JMTEK TECHNOLOGY(ZHONGSHAN) CO., LTD
Address	:	3F B3 and 3F B4 Chuangzhi Science Park, No.22 Xingpu Avenue East, Huangpu Town, Zhongshan City, Guangdong Province 528429, China
Factory	:	JMTEK TECHNOLOGY(ZHONGSHAN) CO., LTD
Address	:	3F B3 and 3F B4 Chuangzhi Science Park, No.22 Xingpu Avenue East, Huangpu Town, Zhongshan City, Guangdong Province 528429, China

### 1.2. Description of Device (EUT)

Product Name	:	Wireless Charger
Model No.	:	HWPC420, HWPC420B, HWPC420W (Note: All samples are the same except the model number and appearance color, so we prepare "HWPC420" for test only.)
Trade Mark	:	N/A
Test Power Supply	:	AC 120V/60Hz for adapter
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/A
<b>RF Specification</b>		
Operation Frequency	:	112kHz-205kHz
Modulation Type	:	ASK
Antenna Type	:	Inductive loop coil Antenna
<b>Remark:</b> 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.		

1.3. Auxiliary Equipment Used During Test

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

1.4. Description of Test Modes

Pretest Modes	Descriptions
TM1	WTP Mode (15W 1% Load)
TM2	WTP Mode (15W 50% Load)
TM3	WTP Mode (15W 99% Load)
TM4	Standby Mode

1.5. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Electric and Magnetic field Analyzer	NARDA	EHP-200A	180ZX10202	Oct. 15, 2024	1 Year

1.6. Measurement Uncertainty

Magnetic Field Reading(A/m)	:	+/-0.04282(A/m)
Electric Field Reading(V/m)	:	+/-0.03679(V/m)
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.

Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Subdistrict, 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.
3. 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.

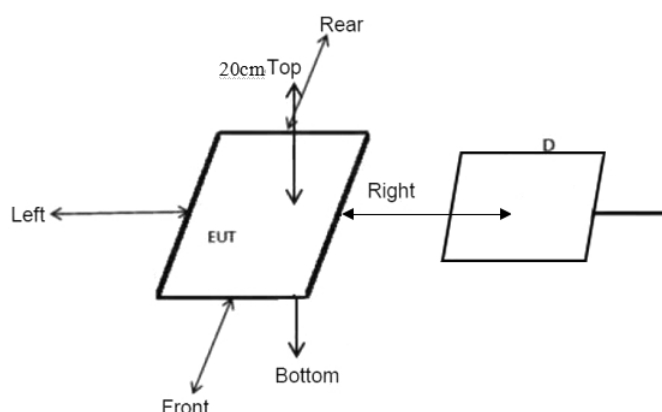
## 2. Measurement and Result

### 2.1. Limits For Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm <sup>2</sup> )	Averaging time (minutes)
<b>(A) Limits for Occupational/Controlled Exposures</b>				
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	/	/	f/300	6
1500-100,000	/	/	5	6
<b>(B) Limits for General Population/Uncontrolled Exposure</b>				
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	/	/	f/1500	30
1500-100,000	/	/	1.0	30

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).

### 2.2. Test Setup



Note: Measurements should be made at 20 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 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

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

Temperature:	23.6 °C	Humidity:	51 %	Atmospheric Pressure:	101 kPa
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E-Field Strength at 20 cm surrounding the EUT and 20cm above the top surface of the EUT

Test Mode	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)
TM1	112-205	2.620	2.825	2.559	2.497	2.990	307	614
TM2	112-205	1.577	1.817	1.449	1.492	1.606	307	614
TM3	112-205	0.505	0.545	0.475	0.555	0.545	307	614
TM4	112-205	0.323	0.413	0.363	0.374	0.453	307	614

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

Test Mode	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)
TM1	112-205	0.561	0.621	0.635	0.531	0.613	0.815	1.63
TM2	112-205	0.513	0.593	0.583	0.543	0.603	0.815	1.63
TM3	112-205	0.367	0.457	0.357	0.357	0.527	0.815	1.63
TM4	112-205	0.016	0.038	0.044	0.028	0.038	0.815	1.63

## **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 -----

