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# FCC Test Report

Applicant	: Shenzhen iSonteck Co.,Ltd.
Address	F/5, Zhongkong Bldg, Hengfeng Industrial : Park, Zhoushi Rd, Xixiang, Bao' an District,
Addi CSS	518126 Shenzhen, China
Product Name	· 3-in-1 MagSafe Charger

Report Date

Dec. 11, 2023



#### Shenzhen Anbotek Compliance Laboratory Limited

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## TEST REPORT

Applicant	ŀ:	Shenzhen iSonteck Co.,Ltd.
Manufacturer	ote <sup>V</sup>	Shenzhen iSonteck Co.,Ltd.
Product Name	nloo	3-in-1 MagSafe Charger
Test Model No.	$\mathbf{p}^{j}$	WL031
Reference Model No.	:	N/A
Trade Mark	Kelt-	Vogtech or OEM
Rating(s)	ibo'	Input: 5V= 3A, 9V= 3A Output for iPhone: 15W Max. Output for AirPods: 3W Max.
		Output for Watch: 2.5W 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.

Date of Receipt Date of Test

Prepared By

Nov. 13, 2023 Nov. 13~Nov. 24, 2023

Stella Zhu

(Stella Zhu)

Idward pan

(Edward Pan)

#### Shenzhen Anbotek Compliance Laboratory Limited

Approved & Authorized Signer

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### **Revision History**

	Repor	t Version		Descripti	on		Issued Date	
1	Inbote. F	200	nbotek	Original Is	sue.	Anbote	Dec. 11, 2023	Anbotek
	Anbotek	Anburgek	abotek	Anboro	Amnovek	Anboten	Anbo	abotel
×s	Anbotek	Anbo	hotek	Anboto	Anthotek	Anbote	k Aupo	h.

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## 1. General Information

## 1.1. Client Information

Par.	
Applicant	: Shenzhen iSonteck Co.,Ltd.
Address	F/5, Zhongkong Bldg, Hengfeng Industrial Park, Zhoushi Rd, Xixiang, Bao' an District, 518126 Shenzhen, China
Manufacturer	: Shenzhen iSonteck Co.,Ltd.
Address	F/5, Zhongkong Bldg, Hengfeng Industrial Park, Zhoushi Rd, Xixiang, Bao' an District, 518126 Shenzhen, China
Factory	: Shenzhen iSonteck Co.,Ltd.
Address	F/5, Zhongkong Bldg, Hengfeng Industrial Park, Zhoushi Rd, Xixiang, Bao' an District, 518126 Shenzhen, China

### 1.2. Description of Device (EUT)

Product Name	:	3-in-1 MagSafe Charger
Test Model No.	:	WL031
Reference Model No.	:	N/A abotek Anbotek Anbotek Anbotek Anbotek Anbotek
Trade Mark	:	Vogtech or OEM
Test Power Supply	:	AC 120V, 60Hz for Adapter
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/Apotek Anborek Anborek Anborek Anborek Anborek Anborek Anborek
RF Specification		
Operation Frequency	:	110.1-205kHz
Modulation Type	:	FSK/ASK
Antenna Type	:	Inductive loop coil Antenna
Antenna Gain(Peak)	:	0 dBi Andrek Anborek Anborek Anborek Anborek

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#### 1.3. Auxiliary Equipment Used During Test

Title	Manufacturer	Model No.	Serial No.
Xiaomi 33W adapter	Xiaomi	MDY-11-EX	SA62212LA04358J
Apple Phone	Apple	iPhone 12	DNPDJC7T0DYF
Apple Watch	Apple	Anbo Istek Anb	otek Anborto Anu
Apple headphones	Apple	poten And	nbotek Anbour Alle

#### 1.4. Test Equipment List

×		V 1-01		194	10 M.	1-01	D.1.
	Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
376	Anb 1 p	Electric and Magnetic field Analyzer	NARDA	EHP-200A	180ZX10202	Oct. 16, 2023	1 Year

#### 1.5. Measurement Uncertainty

			105	100	Per
Electric Field Reading(V/m) : +/-	/-0.03679(V/m)	Anbotek	Anbore Anborek	An	k ho

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.

#### **1.6. 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.

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#### 1.7. 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.

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### 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) 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.

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm <sup>2</sup> )	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 <sup>2</sup> )	6
30-300	61.4	0.163	1.0	6
300-1500	1	1	<mark>f/300</mark>	6
1500-100,000	1	1	5	6
	(B) Limits for Genera	l Population/Uncontrolle	ed Exposure	
00404	644	4.00	*(+00)	00

Limits For Maximum Permissible Exposure (MPE)

1000 100,000	1	1		
	(B) Limits for Genera	l Population/Uncontroll	ed Exposure	1 × 1
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	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).

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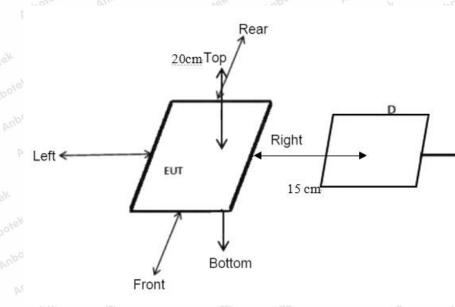






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2.2. Test Setup



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 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) 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 15W.
- 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

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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 exposure conditions
- 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
	e, p,

Temperature:	22.5°C	Relative Humidity:	49 %
Pressure:	101 kPa	Test Voltage:	AC 120V, 60Hz for adapter
Worst case:	FSK		tek abotek Anbo

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	0.282	0.372	0.322	0.332	0.452	307	614
50%	110.1-205	1.476	1.916	1.406	1.536	1.706	307	614
99%	110.1-205	2.385	2.785	2.395	2.345	2.805	307	614
Stand-by	110.1-205	0.428	0.578	0.418	0.408	0.548	307	614

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)
1%	110.1-205	0.034	0.056	0.062	0.046	0.056	0.815	1.63
50%	110.1-205	0.337	0.427	0.327	0.327	0.497	0.815	1.63
99%	110.1-205	0.451	0.631	0.521	0.341	0.331	0.815	1.63
Stand-by	110.1-205	0.498	0.318	0.418	0.538	0.398	0.815	1.63

Note: All the situation(full load, half load and empty load) has been tested, only the worst situation (full load 20.5W (iPhone + Watch + Earphone)) was recorded in the report.

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## **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 -----

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