

# Human Exposure Report

**Application No.:** SZCR2103020099AT  
**Applicant:** Anker Innovations Limited  
**Address of Applicant:** Room 1318-19, Hollywood Plaza 610 Nathan Road, Mongkok, Kowloon, Hong Kong  
**Manufacturer:** Anker Innovations Limited  
**Address of Manufacturer:** Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon, HongKong  
**Factory:** AQUILSTAR TECHNOLOGY (VIET NAM) CO., LTD  
**Address of Factory:** Hamlet Ve, Dong Tam Commune, Ninh Giang District, Hai Duong Province, Vietnam  
**Equipment Under Test (EUT):**  
**EUT Name:** Wireless Charging Stand  
**Model No.:** WIABLK100030328  
**Trade Mark:** onn.  
**FCC ID:** 2AOKB-Y1821  
**Standards:** 47 CFR PART 1, Subpart I, Section 1.1310  
47 CFR PART 2, Subpart J, Section 2.1091  
**Date of Receipt:** 2021-03-18  
**Date of Test:** 2021-03-20 to 2021-03-25  
**Date of Issue:** 2021-03-26

<b>Test Result :</b>	<b>Pass*</b>
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\* In the configuration tested, the EUT complied with the standards specified above

Keny Xu  
EMC Laboratory Manager





<i>Revision Record</i>				
<i>Version</i>	<i>Chapter</i>	<i>Date</i>	<i>Modifier</i>	<i>Remark</i>
01		2021-03-26		Original

<b>Authorized for issue by:</b>				
		<b>Charlie Dai/Project Engineer</b>		
		<b>Eric Fu/Reviewer</b>		



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## 2 General Information

### 2.1 Details of E.U.T.

Power Supply:	Powered by adapter with 5V/2A.
Cable(s):	USB Cable 105cm Unshielded Non-Core
Operation frequency:	111.699kHz to 149.679kHz
Modulation type:	Load modulation
Antenna type:	Loop Antenna
Antenna Gain:	0dBi
Remark:	1. The EUT only supports 5W output. 2. The EUT has two coils, test was performed with two coils, and the worst case of vertical is in the report.

### 2.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Mobile Phone	SAMSUNG	SM-G9500	REF. No.SEA16J00
Quick Charger	ANKER	A2013	NA



## 2.3 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch E&E Lab,

No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen, Guangdong, China 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

## 2.4 Test Facility

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

- **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 3816.01.

- **VCCI**

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

- **FCC –Designation Number: CN1178**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

- **Innovation, Science and Economic Development Canada**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

## 2.5 Deviation from Standards

None.

## 2.6 Abnormalities from Standard Conditions

None.



### 3 Equipments Used during Test

Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Due date (yyyy-mm-dd)
1	Electric and Magnetic Field Analyzer	Narda	EHP-50F	EMC092	2021-11-26



## 4 Test Results

### 4.1 RF Exposure test

Test Requirement: 47 CFR PART 1, Subpart I, Section 1.1310

Measurement Distance: 15cm

Limit:

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).

#### 4.1.1 E.U.T. Operation

##### Operating Environment:

Temperature: 23.4 °C Humidity: 52 % RH Atmospheric Pressure: 1015 mbar

##### EUT Operation:

This device has been tested the worst status of full loads and the device has been tested with mobile phone at zero charge, intermediate charge, and full charge.



**4.1.2 Measurement Data**

**Output Voltage=DC 5V; The max output power =5W;Calculation of resistor value=5Ω**

**Magnetic Field Emissions**

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
113 kHz	15	Side 1	0.0327	0.815
		Side 2	0.0436	0.815
		Side 3	0.0359	0.815
		Side 4	0.0372	0.815
		Top	0.0215	0.815

**Mobile phone has been charge at zero charge, intermediate charge, and full charge.**

**Magnetic Field Emissions**

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50%Limit (A/m)
			zero charge	intermediate charge	full charge	
113 kHz	15	Side 1	0.0353	0.0304	0.0257	0.815
		Side 2	0.0484	0.0395	0.0354	0.815
		Side 3	0.0381	0.0322	0.0296	0.815
		Side 4	0.0402	0.0339	0.0286	0.815
		Top	0.0166	0.0189	0.0171	0.815







## 5 Photographs- RF exposure setup

Refer to RF Exposure Setup Photos.

- End of the Report -

