



Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200051302

Page: 1 of 9

Human Exposure Report

Application No.: FYCR2212000513AT
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, Hong Kong, China
Equipment Under Test (EUT):
EUT Name: Anker 737 MagGo Charger(3-in-1 Station)
Model No.: A2599
Trade Mark: ANKER
FCC ID: 2AOKB-A2599
Standards: 47 CFR PART 1, Subpart I, Section 1.1310
47 CFR PART 2, Subpart J, Section 2.1091
Date of Receipt: 2022-12-15
Date of Test: 2023-01-05 to 2023-01-30
Date of Issue: 2023-02-06

Test Result :	Pass*
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* In the configuration tested, the EUT complied with the standards specified above

Winkay Wang

EMC Technical Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2023-02-06		Original

Authorized for issue by:				
				
		Tree Zhan/Project Engineer		
				
		Winkey Wang/Reviewer		



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3 General Information

3.1 Details of E.U.T.

Power supply:	Adapter: Model: ASUC49w-P30W12 Input: 100-240V~50/60HZ 1.0A Output: 5.0V/3.0A, 9.0V/3.0A, 12.0V/2.5A Wireless output: Output 1: 15W Max. (for iphone) Output 2: 5W Max. (for iwatch) Output 3: 5W Max. (for TWS)
Cable(s):	USB-C to USB-C 150cm unshielded
Operation Frequency:	Output 1 (for iphone): 358.80-361.20KHz Output 2 (for iwatch): 325.40-327.60KHz Output 3 (for TWS): 145.20-147.60KHz
Modulation type:	Load modulation
Antenna type:	Loop Antenna

3.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
iPhone 13	Apple	MLDYCH/A	REF. No.SEA16Q00
iWatch	Apple	Apple Watch 3	N/A
Airpods	Apple	Airpods 2	REF. No.SEA05B06D
E-loading	SGS	N/A	REF. No.SEA42A00



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3.3 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc. Shenzhen branch.

Fuyong lab. Xinlong TechnoPark, Fengtang Road, Fuyong Subdistrict, Bao'an, Shenzhen, China

Tel: +86 755 8866 3988 Fax: +86 755 2671 0594

No tests were sub-contracted.

3.4 Test Facility

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

• A2LA (Certificate No. 6606.01)

Compliance Certification Services (Kunshan) Inc. Shenzhen branch is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6606.01.

• FCC –Designation Number: CN1322

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized as an accredited testing laboratory.

Designation Number: CN1322. Test Firm Registration Number: 718073

• Innovation, Science and Economic Development Canada

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0129.

IC#: 28189.

3.5 Deviation from Standards

None.

3.6 Abnormalities from Standard Conditions

None.



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4 Equipments Used during Test

Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Due date
1	3m Anechoic Chamber	CRT	N/A	SEM001-13	2023-07-11
2	Electric and Magnetic Field Analyzer	Narda	EHP-200AC	SEM022-20	2023-04-01

Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	00	Operation(Wireless):Keep the EUT pairing with other devices(Output1: 5W).
Pre-scan	01	Operation(Wireless):Keep the EUT pairing with other devices(Output1: 7.5W).
Pre-scan	02	Operation(Wireless):Keep the EUT pairing with other devices(Output1: 10W).
Pre-scan	03	Operation(Wireless):Keep the EUT pairing with other devices(Output1: 15W).
Pre-scan	04	Operation(Wireless):Keep the EUT pairing with other devices(Output2: 5W).
Pre-scan	05	Operation(Wireless):Keep the EUT pairing with other devices(Output3: 5W).
Pre-scan	06	Operation(Wireless):Keep the EUT pairing with other devices(Output1: 5W+Output2: 5W).
Pre-scan	07	Operation(Wireless):Keep the EUT pairing with other devices(Output1: 7.5W+Output2: 5W).
Pre-scan	08	Operation(Wireless):Keep the EUT pairing with other devices(Output1: 10W+Output2: 5W).
Pre-scan	09	Operation(Wireless):Keep the EUT pairing with other devices(Output1: 15W+Output2: 5W).
Pre-scan	10	Operation(Wireless):Keep the EUT pairing with other devices(Output1: 5W+Output 3: 5W).
Pre-scan	11	Operation(Wireless):Keep the EUT pairing with other devices(Output1: 7.5W+Output 3: 5W)



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Pre-scan	12	Operation(Wireless):Keep the EUT pairing with other devices(Output1: 10W+Output 3: 5W)
Pre-scan	13	Operation(Wireless):Keep the EUT pairing with other devices(Output1: 15W+Output 3: 5W)
Pre-scan	14	Operation(Wireless):Keep the EUT pairing with other devices(Output2: 5W+Output 3: 5W)
Pre-scan	15	Operation(Wireless):Keep the EUT pairing with other devices(Output1: 5W+Output2: 5W+Output 3: 5W).
Pre-scan	16	Operation(Wireless):Keep the EUT pairing with other devices(Output1: 7.5W+Output2: 5W+Output 3: 5W).
Pre-scan	17	Operation(Wireless):Keep the EUT pairing with other devices(Output1: 10W+Output2: 5W+Output 3: 5W).
Final test	18	Operation(Wireless):Keep the EUT pairing with other devices(Output1: 15W+Output2: 5W+Output 3: 5W).



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5 Test Results

5.1 RF Exposure test

Test Requirement: 47 CFR PART 1, Subpart I, Section 1.1310
47 CFR PART 2, Subpart J, Section 2.1091

Measurement Distance: 15/20cm

Limit:

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	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	/	/	5	6
(B) Limits for General Population/Uncontrolled 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	/	/	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).

5.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22.3 °C Humidity: 52.9 % RH Atmospheric Pressure: 1015 mbar

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



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5.1.2 Measurement Data

Mode 18:

Input Voltage=DC 12V; The max output1 power 15W, max output2 power 5W, max output3 power 5W.

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)			50 % Limit (A/m)	10 % Limit (A/m)
			unload	Half load	full load		
360KHz	15	Side 1	0.111	0.127	0.147	0.815	0.163
		Side 2	0.116	0.134	0.156		
		Side 3	0.119	0.134	0.160		
		Side 4	0.114	0.130	0.154		
360KHz	20	Top	0.132	0.151	0.177	0.815	0.163
146KHz			0.059	0.065	0.071		
326KHz			0.051	0.060	0.065		

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50 % Limit (A/m)	10 % Limit (A/m)
			zero charge	intermediate charge	full charge		
360KHz	15	Side 1	0.157	0.132	0.105	0.815	0.163
		Side 2	0.156	0.131	0.104		
		Side 3	0.166	0.140	0.111		
		Side 4	0.156	0.131	0.104		
360KHz	20	Top	0.181	0.152	0.121	0.815	0.163
146KHz			0.059	0.055	0.051		
326KHz			0.056	0.046	0.040		

- End of the Report -



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