

Human Exposure Report

Application No.: SZCR2401000347AT
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
Factory:
1: Dongguan City Jieshuai Electronics Co., Ltd.
2: JSE VIETNAM ELECTRONIC TECHNOLOGY COMPANY LIMITED
Address of Factory:
1: No.4, The Third Avenue, Liyatang Industrial Zone Lincun, Tangxia Town, Dongguan City, 523711 Guangdong, P.R. China
2: Lot CN-15 (Rent workshop of LongTao Vina Co., Ltd) Van Trung Commune, Viet Yen District, 999100 Bac Giang Province, Vietnam

Equipment Under Test (EUT):
EUT Name: Anker MagGo Wireless Car Charger (Pad, Built-In USB-C Cable)
Model No.: A2932
Trade Mark: Anker
FCC ID: 2AOKB-A2932
Standards: 47 CFR PART 1, Subpart I, Section 1.1310
47 CFR PART 2, Subpart J, Section 2.1091
Date of Receipt: 2024-01-25
Date of Test: 2024-02-01 to 2024-02-21
Date of Issue: 2024-03-12

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

Keny Xu
EMC Laboratory Manager





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

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240100034702

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2024-03-12		Original

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



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Shenzhen Branch (SZEMC) EEC Laboratory

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3 General Information

3.1 Details of E.U.T.

Power supply:	Powered by car charger.
Cable(s):	USB-C charging cable 145cm shielded
Operation frequency:	119.20-140.80kHz & 356.80-369.40kHz
Modulation type:	Load modulation
Antenna type:	Loop Antenna
Duty Cycle:	100%

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

3.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
DC power supply	ZHAOXIN	PS-3005D	REF. No.SEA27B01
iPhone 13	Apple	MLDYCH/A	REF. No.SEA16Q00
E-loading	SGS	N/A	REF. No.SEA42A00



3.3 Test Location

All tests were performed at:

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

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

Tel: +86 755 2601 2053 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. 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 (Member No. 1937)**

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.

Shenzhen EMC laboratory 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: CN1336**

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

Designation Number: CN1336. Test Firm Registration Number: 787754.

• **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.

3.5 Deviation from Standards



None.

3.6 Abnormalities from Standard Conditions

None.

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	2024-07-12
2	Electric and Magnetic Field Analyzer	Narda	EHP-200AC	SEM022-20	2024-04-01



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.



5.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	00	Charge mode_Keep the EUT charging(5W)
Pre-scan	01	Charge mode_Keep the EUT charging(7.5W)
Final test	02	Charge mode_Keep the EUT charging(15W)

5.1.3 Measurement Data

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		
359kHz which is the worst case within the operation frequency range	20	Side 1	0.046	0.163	0.181	0.815	0.163
		Side 2	0.047	0.341	0.385		
		Side 3	0.043	0.170	0.195		
		Side 4	0.043	0.209	0.240		
		Top	0.046	0.227	0.256		

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		
359kHz which is the worst case within the operation frequency range	20	Side 1	0.229	0.193	0.098	0.815	0.163
		Side 2	0.488	0.410	0.209		
		Side 3	0.247	0.207	0.103		
		Side 4	0.301	0.253	0.129		
		Top	0.322	0.270	0.138		



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Electric Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (V/m)			50 % Limit (V/m)	10 % Limit (V/m)
			unload	Half load	full load		
359kHz which is the worst case within the operation frequency range	20	Side 1	0.045	0.193	0.252	307	61.4
		Side 2	0.047	0.370	0.489		
		Side 3	0.037	0.224	0.295		
		Side 4	0.039	0.253	0.330		
		Top	0.050	0.236	0.315		

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(V/m)			50 % Limit (V/m)	10 % Limit (V/m)
			zero charge	intermediate charge	full charge		
359kHz which is the worst case within the operation frequency range	20	Side 1	0.222	0.186	0.112	307	61.4
		Side 2	0.431	0.357	0.208		
		Side 3	0.259	0.215	0.126		
		Side 4	0.291	0.244	0.137		
		Top	0.277	0.228	0.139		

- End of the Report -



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