

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240100000202

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# **Human Exposure Report**

SZCR2401000002AT Application No.: Applicant: Anker Innovations Limited

Address of Applicant: Room 1318-19, Hollywood Plaza 610 Nathan Road, Mongkok Kowloon Hong

Manufacturer: Anker Innovations Limited

Address of Manufacturer: Room 1318-19, Hollywood Plaza 610 Nathan Road, Mongkok Kowloon Hong

Factory: 1. ASAP Technology(Jiangxi) Co., Ltd.

2. LUXSHARE-ICT(NGHE AN) LIMITED

Address of Factory: 1. Ji'an Industrial Park, Ji'an, Jiangxi 343100 China

2. No.18 Street 03, VSIP Nghe An Industrial Park, Hung Tay Commune,

Hung Nguyen District, Nghe An Province, Vietnam

**Equipment Under Test (EUT):** 

**EUT Name:** Anker MagGo Wireless Charging Station(3-in-1 Cube)

Model No.: A25M5 **Trade Mark:** Anker

FCC ID: 2AOKB-A25M5

Standards: 47 CFR PART 1, Subpart I, Section 1.1310

47 CFR PART 2, Subpart J, Section 2.1091

**Date of Receipt:** 2024-01-02

Date of Test: 2024-01-05 to 2024-01-12

Date of Issue: 2024-01-24

Test Result: Pass\*

**EMC Laboratory Manager** 



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<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above



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	Revision Record							
Version	Chapter	Date	Modifier	Remark				
01		2024-01-24		Original				

Authorized for issue by:		
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	Leo Li/Project Engineer	-
	Exic Fu	
	Eric Fu/Reviewer	-



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#### 3 **General Information**

#### 3.1 Details of E.U.T.

Power supply:	Input: 12V/3A, 15V/2.66A
	Output: 15W Max/5W Max/5W Max
	Adapter Model: ASPD53a-P40W20
	Input: 100-240V~,50/60Hz 1.0A
	Output: 5.0V/3.0A, 9.0V/3.0A, 12.0V/3.0A, 15.0V/2.66A, 20.0V/2.0A
	Wireless output:
	Output 1: 5W/7.5W/15W(for iPhone)
	Output 2: 5W(for TWS)
	Output 3: 5W(for iWatch)
Cable(s):	Type-C cable:150cm unshielded
	Output 1 (for iPhone): 119.20-140.80kHz & 356.74-369.62kHz
Operation frequency:	Output 2 (for TWS): 112.40-130.60kHz
	Output 3 (for iWatch): 324.4276-342.5276kHz
Modulation type:	Load modulation
Antenna type:	Loop Antenna

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### 3.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Earphone	Apple	A2566	REF. No.SEA10D00
Watch	Apple	Series 5	REF. No.SEA32A00
iPhone 12	Apple	MGGU3CH/A	REF. No.SEA16M00
iPhone 8	Apple	A1863	REF. No.SEA16J00
Mobile Phone	Nexus	MRA58K	REF. No.SEA16P00
Mobile Phone	SAMSUNG	SM-G9500	REF. No.SEA16J00
E-loading for iPhone	Anker	N/A	Client supply
E-loading for Earphone	Anker	N/A	Client supply
E-loading for Watch	Anker	N/A	Client supply



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#### Test Location 3.3

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.



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3.5 Deviation from Standards

None.

3.6 Abnormalities from Standard Conditions

None.

## **Equipments Used during Test**

Item	Test Equipment Manufactu		Model No.	Inventory No.	Cal. Due date	
1	3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2024-03-31	
2	Electric and Magnetic Field Analyzer	Narda	EHP-200AC	SEM022-20	2024-03-31	



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#### **Test Results** 5

### 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: 20cm

Limit:

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	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/f²)	6				
30-300	61.4	0.163	1.0	6				
300-1500	/	/	f/300	6				
1500-100,000	/	/	5	6				
	(B) Limits for Genera	l Population/Uncontrolle	d Exposure					
0.3-1.34	614	1.63	*(100)	30				
1.34-30	824/f	2.19/f	*(180/f²)	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

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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<sup>=</sup>Plane-wave equivalent power density



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#### 5.1.1 **E.U.T. Operation**

#### **Operating Environment:**

Temperature: 22.3 °C Humidity: 52.9 % RH Atmospheric Pressure: 1020 mbar This device has been tested the worst status of full load and the device has been tested with mobile phone at zero charge, intermediate charge, and full charge.

### 5.1.2 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+Output3: 5W).
Pre-scan	12	Operation(Wireless):Keep the EUT pairing with other devices(Output1: 10W+Output 3: 5W).



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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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#### 5.1.3 **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		
360.2 kHz		Side 1	0.043	0.108	0.119		
which is the worst		Side 2	0.036	0.104	0.114		
case	20	Side 3	0.045	0.099	0.110	0.815	0.163
within the operation	20	Side 4	0.035	0.095	0.108	0.015	0.100
frequency range		Тор	0.039	0.116	0.133		

Operation	Test Distance	Test	Probe M	50 % Limit	10 % Limit		
frequency	(cm)	Position	zero charge	intermediate charge	full charge	( <b>A</b> /m)	(A/m)
360.2 kHz		Side 1	0.153	0.129	0.064		
which is the worst		Side 2	0.146	0.122	0.060		
case	20	Side 3	0.130	0.109	0.057	0.815	0.163
within the	20	Side 4	0.132	0.111	0.057	0.013	0.100
operation frequency range		Тор	0.164	0.138	0.070		



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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		
360.2 kHz		Side 1	0.041	0.167	0.225		
which is the worst		Side 2	0.043	0.158	0.208		
case	20	Side 3	0.036	0.141	0.187	307	61.4
within the operation	20	Side 4	0.036	0.150	0.198	007	01.4
frequency range		Тор	0.037	0.187	0.248		

Operation frequency	Test Distance	Test Position	Probe Measure Result(V/m)			50 % Limit	10 % Limit
	(cm)		zero charge	intermediate charge	full charge	(V/m)	(V/m)
360.2 kHz which is the worst case within the operation frequency range	20	Side 1	0.197	0.161	0.095	307	61.4
		Side 2	0.183	0.151	0.091		
		Side 3	0.163	0.135	0.085		
		Side 4	0.174	0.144	0.087		
		Тор	0.218	0.179	0.103		



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#### 6 **Test Setup Photos**

Refer to Appendix - Test Setup Photo for SZCR2401000002AT

- End of the Report -



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