

Test Report

Report No.: MTi240716012-09E2

Date of issue: 2024-09-06

Applicant: Anker Innovations Limited

Product: Anker MagGo Wireless Charging Station (3-in-1 Cube)

Model(s): A25M5

FCC ID: 2AOKB-A25M5A

Shenzhen Microtest Co., Ltd.

<http://www.mtitest.cn>

Instructions

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2. The test results in this test report are only responsible for the samples submitted
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5. Any objection to this test report shall be submitted to the laboratory within 15 days from the date of receipt of the report.

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Test Result Certification	
Applicant:	Anker Innovations Limited
Address:	Unit 56, 8th Floor, Tower 2, Admiralty Centre, 18 Harcourt Road, Hong Kong
Manufacturer:	Anker Innovations Limited
Address:	Unit 56, 8th Floor, Tower 2, Admiralty Centre, 18 Harcourt Road, Hong Kong
Product description	
Product name:	Anker MagGo Wireless Charging Station (3-in-1 Cube)
Trademark:	ANKER
Model name:	A25M5
Series Model:	N/A
Standards:	47 CFR PART 1, § 1.1310
Test method:	KDB 680106 D01 Wireless Power Transfer v04
Date of Test	
Date of test:	2024-07-01 to 2024-07-19
Test result:	Pass

Test Engineer	:	<i>Yanice Xie</i>
		(Yanice.Xie)
Reviewed By	:	<i>David. Lee</i>
		(David Lee)
Approved By	:	<i>Leon Chen</i>
		(Leon Chen)

1 General Description

1.1 Description of the EUT

Product name:	Anker MagGo Wireless Charging Station (3-in-1 Cube)
Model name:	A25M5
Series Model:	N/A
Model difference:	N/A
Electrical rating:	Input:12V=3A, 15v=2.66A Output:15W Max/5W Max/5W Max (Phone:15W Max/Apple Watch:5WMax/TWS:5W Max)
Accessories:	Cable:Type-C to type-C 1.5m
Hardware version:	A1
Software version:	0XB365
Test sample(s) number:	MTi240716012-09S1001
RF specification:	
Operation frequency:	Coil 1 (Phone-5W~7.5W): 115 kHz – 205 kHz Coil 1 (Phone-15W): 360 kHz Coil 2 (Earphone-5W): 115 kHz – 205 kHz Coil 3 (Watch-3W): 326.5 kHz Coil 3 (Watch-5W):1.778 MHz
Modulation type:	ASK
Antenna type:	Coil

1.2 Description of test modes

All the test modes were carried out with the EUT in normal operation, the final test mode of the EUT was the worst test mode for emission test, which was shown in this report and defined as:

No.	Emission test modes
Mode1	Wireless Output(Phone:5W)
Mode2	Wireless Output(Phone:7.5W)
Mode3	Wireless Output(Phone:15W)
Mode4	Wireless Output(Apple watch:3W)
Mode5	Wireless Output(Apple watch:5W)
Mode6	Wireless Output(TWS:5W)
Mode7	Wireless Output(Phone:5W+TWS:5W)
Mode8	Wireless Output(Phone:7.5W+TWS:5W)
Mode9	Wireless Output(Phone:15W+TWS:5W)
Mode10	Wireless Output(Phone:5W+Apple watch:3W)
Mode11	Wireless Output(Phone:7.5W+Apple watch:3W)
Mode12	Wireless Output(Phone:15W+Apple watch:3W)
Mode13	Wireless Output(Phone:5W+Apple watch:5W)
Mode14	Wireless Output(Phone:7.5W+Apple watch:5W)

Mode15	Wireless Output(Phone:15W+Apple watch:5W)
Mode16	Wireless Output(Apple watch:3W+TWS:5W)
Mode17	Wireless Output(Apple watch:5W+TWS:5W)
Mode18	Wireless Output(Phone:5W+Apple watch:3W+TWS:5W)
Mode19	Wireless Output(Phone:7.5W+Apple watch:3W+TWS:5W)
Mode20	Wireless Output(Phone:15W+Apple watch:3W+TWS:5W)
Mode21	Wireless Output(Phone:5W+Apple watch:5W+TWS:5W)
Mode22	Wireless Output(Phone:7.5W+Apple watch:5W+TWS:5W)
Mode23	Wireless Output(Phone:15W+Apple watch:5W+TWS:5W)
Mode24	Stand by

1.3 Description of support units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Support equipment list			
Description	Model	Serial No.	Manufacturer
Mobile phone	iPhone 11	DNPZX2H1N747	Apple
Mobile phone	iPhone 15	KXPWNQFK90	Apple
Air Pods	MQD83CH/A	/	Apple
iWatch	iWatch S7	M0JVGQG1VP	Apple
iWatch	Apple Watch SE	FH7PP6BAG91J6	Apple
Adapter	ASPD53e-P40W20	/	Shenzhen Aquilstar Technology Co., Ltd.
Support cable list			
Description	Length (m)	From	To
/	/	/	/

2 Measurement uncertainty

Parameter	Expanded Uncertainty
Magnetic field measurements(3kHz~10MHz)	$\pm 14.8\%$
Electric field measurements(3kHz~10MHz)	$\pm 17.5\%$

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

3 Test facilities and accreditations

3.1 Test laboratory

Test laboratory:	Shenzhen Microtest Co., Ltd.
Test site location:	101, No. 7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinhe Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Telephone:	(86-755)88850135
Fax:	(86-755)88850136
CNAS Registration No.:	CNAS L5868
FCC Registration No.:	448573

4 List of test equipment

No.	Equipment	Manufacturer	Model	Serial No.	Cal. date	Cal. Due
MTI-E143	Near-field Electric and Magnetic Field Sensor System	SPEAG	MAGPy-8H3D +ED3	3101	2024/3/12	2027/3/11

No.	Equipment	Manufacturer	Model	Software version:	Cal. date	Cal. Due
MTI-E016S	MPE test software	SPEAG	MAGPY 2.4	2.4.1	/	/

5 Test result

5.1.1 Requirement

§1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in §1.1307(b), except in the case of portable devices which shall be evaluated according to the provisions of FCC part 2.1093 of this chapter.

Table 1 to §1.1310(e)(1) - Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(i) Limits for Occupational/Controlled Exposure				
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
1500-100000			5	<6
(ii) 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
1500-100000			1.0	<30

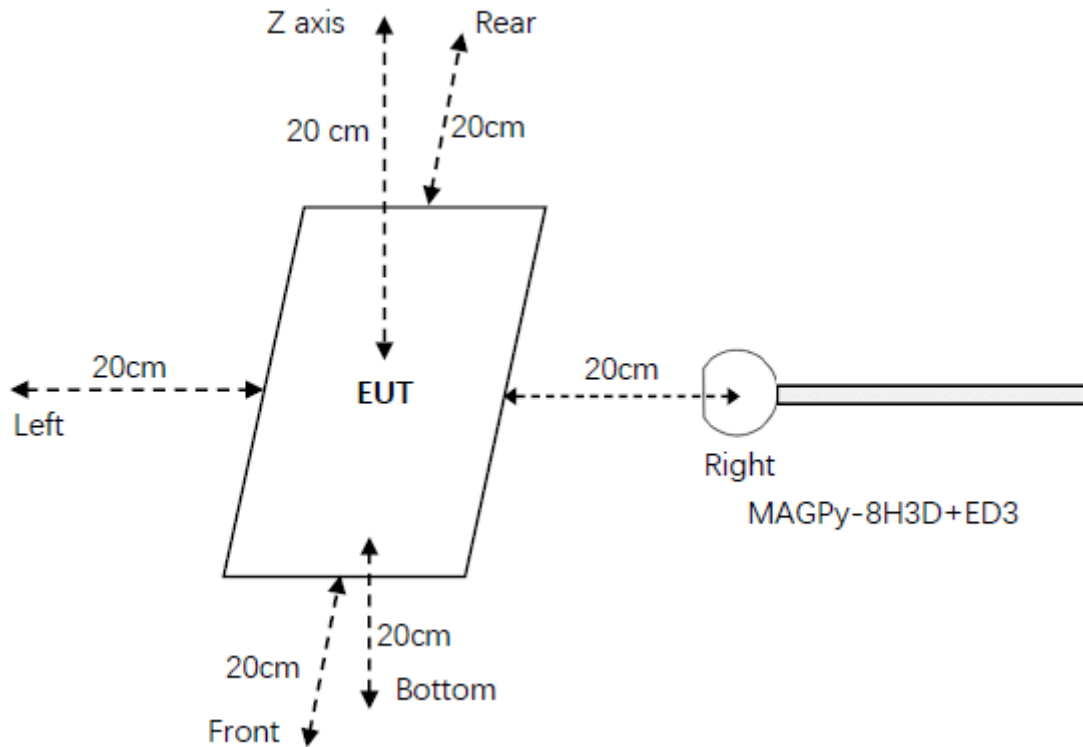
f = frequency in MHz

* = Plane-wave equivalent power density

Note 1: Occupational/controlled exposure limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure.

Note 2: General population/uncontrolled exposure limits apply in situations in which the general public may be exposed, or in which persons who are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.

5.2 Test setup

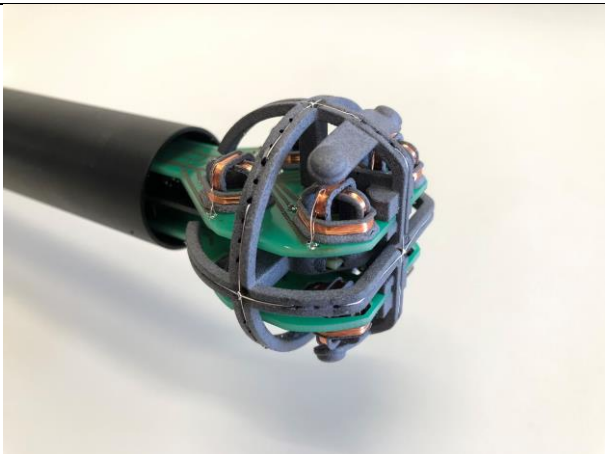


5.3 Test Procedures

- The RF exposure test was performed in anechoic chamber.
- E and H-field measurements should be made with these devices considered to meet the § 2.1091-Mobile conditions ("generally be used in such a way that a separation distance of at least 20 centimeters is normally maintained between the RF source's radiating structure(s) and [the nearest person]").
- The highest emission level was recorded and compared with limit.
- The EUT was measured according to the dictates of KDB 680106 D01 Wireless Power Transfer v04.

5.4 Information of test equipment

Test equipment: MAGPy-8H3D+ED3	
Diameter	60mm
8 isotropic H-field sensors	Concentric loops of 1cm ² arranged at the corner of a cube of 22mm side length
1 isotropic E-field sensor	Orthogonal dipole/monopole (arm length: 50mm)
Measurement center	18.5mm from the probe tip
Dimensions	110*635*35mm (MAGPy-8H3D+E3D V2 & MAGPy-DAS V2)



Test probe, without the casing

5.5 Test results

Test condition 1: Mode 19 operating mode with client device (1 % battery status of client device)

Probe Position	E -field (V/m)			H-field (A/m)		
	Measurement	Limit	Percentage (%)	Measurement	Limit	Percentage (%)
Z axis	13.9	614	2.26%	0.08	1.63	4.91%
Left	11.7			0.05		
Right	9.67			0.04		
Front	8.76			0.04		
Rear	7.67			0.03		
bottom	6.65			0.02		

Test condition 2: Mode 19 operating mode with client device (50 % battery status of client device)

Probe Position	E -field (V/m)			H-field (A/m)		
	Measurement	Limit	Max. Percentage (%)	Measurement	Limit	Max. Percentage (%)
Z axis	11.82	614	1.93%	0.07	1.63	4.29%
Left	9.95			0.04		
Right	8.22			0.03		
Front	7.45			0.03		
Rear	6.52			0.03		
Bottom	5.65			0.02		

Test condition 3: Mode 19 operating mode with client device (99 % battery status of client device)

Probe Position	E -field (V/m)			H-field (A/m)		
	Measurement	Limit	Percentage (%)	Measurement	Limit	Percentage (%)
Z axis	9.73	614	1.58%	0.06	1.63	3.68%
Left	8.19			0.04		
Right	6.77			0.03		
Front	6.13			0.03		
Rear	5.37			0.02		
bottom	4.66			0.01		

Test condition 1: Mode 23 operating mode with client device (1 % battery status of client device)

Probe Position	E -field (V/m)			H-field (A/m)		
	Measurement	Limit	Percentage (%)	Measurement	Limit	Percentage (%)
Z axis	12.9	614	2.10%	0.07	1.63	4.29%
Left	9.87			0.05		
Right	7.75			0.04		
Front	6.76			0.03		
Rear	5.98			0.03		
bottom	5.75			0.02		

Test condition 2: Mode 23 operating mode with client device (50 % battery status of client device)

Probe Position	E -field (V/m)			H-field (A/m)		
	Measurement	Limit	Max. Percentage (%)	Measurement	Limit	Max. Percentage (%)
Z axis	10.97	614	1.79%	0.06	1.63	3.68%
Left	8.39			0.04		
Right	6.59			0.03		
Front	5.75			0.03		
Rear	5.08			0.03		
Bottom	4.89			0.02		

Test condition 3: Mode 23 operating mode with client device (99 % battery status of client device)

Probe Position	E -field (V/m)			H-field (A/m)		
	Measurement	Limit	Percentage (%)	Measurement	Limit	Percentage (%)
Z axis	9.03	614	1.47 %	0.05	1.63	3.07%
Left	6.91			0.04		
Right	5.43			0.03		
Front	4.73			0.02		
Rear	4.19			0.02		
bottom	4.03			0.01		

Photographs of the Test Setup

See the Appendix - Test Setup Photos.

Photographs of the EUT

See the Appendix - EUT Photos.

----End of Report----