

Test Report

Report No.: MTi210729010-07E2

Date of issue: August 28, 2021

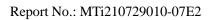
Applicant: Mous Products Limited

Product: MagSafe® Compatible Charging Mount

Model(s): A-532, A-554, A-555

FCC ID: 2AN72-A532

Shenzhen Microtest Co., Ltd. http://www.mtitest.com





Instructions

1. This test report shall not be partially reproduced without the written consent of the laboratory.

2. The test results in this test report are only responsible for the samples submitted

3. This test report is invalid without the seal and signature of the laboratory.

4. This test report is invalid if transferred, altered, or tampered with in any form without authorization.

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:	Mous Products Limited			
Address: WeWork Keltan House 115 Mare Street, London, E84RU, United Kingdo				
Manufacturer:	Shenzhen Powerqi Technology Co., Ltd.			
Address:	Room 201, 302, 401 of A4 Building, Block A, Fangxing Science and Technology Park, No. 13 of Baonan Road, Longgang District, Shenzhen, China			
Product description				
Product name:	MagSafe [®] Compatible Charging Mount			
Trademark:	MOUS			
Model name:	A-532			
Serial Model:	A-554, A-555			
Standards:	FCC CFR 47 PART 1, § 1.1310			
Test method:	KDB 680106 v03r01			
Date of Test				
Date of test:	2021-08-17 ~ 2021-08-28			
Test result:	Pass			

Test Engineer :	Yanice	Xie
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(Yanice Xie)

Reviewed By: :

leor chen

(Leon Chen)

Approved By: :

Tom Kue

(Tom Xue)



1 General Description

1.1 Description of the EUT

Product name:	MagSafe [®] Compatible Charging Mount	
Model name:	A-532	
Series Model:	A-554, A-555	
Model difference:	All the models are the same circuit and RF module, except the model name and A554 (with air outlet bracket), A555 (with suction cup bracket)	
Electrical rating:	Input: DC 5V/3A ,9V/2.2A,12V/1.67A Output: 5W/7.5W/10W/15W	
Accessories:	N/A	
RF specification:		
Operation frequency:	115 kHz – 205 kHz	
Modulation type:	ASK	
Antenna type:	Coil Antenna	

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		
Mode 1	Stand-by mode		
Mode 2	Operating mode(load 5W)		
Mode 3	Operating mode (load 7.5W)		
Mode 4 Operating mode (load 10W)			
Mode 5	Operating mode (load 15W)		
The test data only show worst test mode: Mode 5			





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			
Adapter	HW-090200CH0	/	Huizhou BYD Electronics Co., Ltd.			
Mobile Phone	P30 Pro	/	HUAWEI			
Support cable list						
Description	Length (m)	From	То			
/	/	/	/			



2 Test facilities and accreditations

2.1 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

3 List of test equipment

No.	Equipment	Manufacturer	Model	Serial No.	Cal. date	Cal. Due
MTI-E115	Electric and Magnetic Field Probe – Analyzer	Narda	EHP-200A	101166	2021/06/02	2022/06/01



4 Test result

4.1.1 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.

Frequency range Electric field strength Magnetic field strength Power density Averaging time							
Frequency range (MHz)	Electric field strength (V/m)	(A/m)	(mW/cm ²)	(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/f²)	<6			
30-300	61.4	0.163	1.0	<6			
300-1500			f/300	<6			
1500-100000			5	<6			
	(ii) Limits for Genera	I Population/Uncontrolled	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			
1500-100000			1.0	<30			

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

f = frequency in MHz

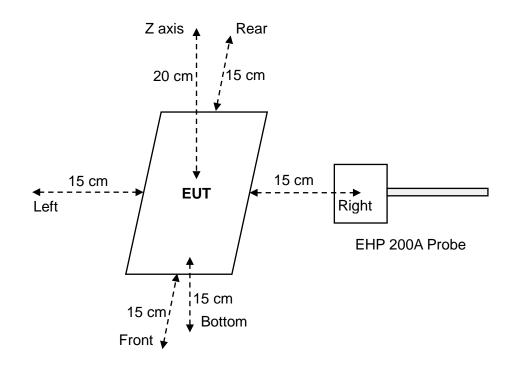
* = Plane-wave equivalent power density

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.



4.2 Test setup



4.3 Test Procedures

a. The RF exposure test was performed in anechoic chamber.

b. E and H-field measurements should be made with the center of the probe at a distance of 15 cm surrounding the device and 20 cm above the top surface of the primary/client pair.

c. The highest emission level was recorded and compared with limit.

d. The EUT was measured according to the dictates of KDB 680106 v03r01.



4.4 Equipment Approval Considerations item 5 b) of KDB 680106 D01 v03r01

Requirement	Device
1. Power transfer frequency is less than 1 MHz.	Yes. The operating frequencies are: transmitter 1: 115-205kHz
2. Output power from each primary coil is less than or equal to 15 watts	Yes. The maximum output power is: transmitter 1: 15W
3. The system may consist of more than one source primary coils, charging one or more clients. If more than one primary coil is present, the coil pairs may be powered on at the same time.	Yes. The EUT have a source primary coils. Can charging a clients and can be powered on at the same time.
4. Client device is placed directly in contact with the transmitter.	Yes. The client device is placed directly in contact with the transmitter.
5. Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).	Yes. Mobile exposure conditions only.
6. The aggregate H-field strengths anywhere at or beyond 15 cm surrounding the device, and 20 cm away from the surface from all coils that by design can simultaneously transmit, and while those coils are simultaneously energized, are demonstrated to be less than 50% of the applicable MPE limit.	Yes. See the test result in item 4.5.

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4.5 Test results

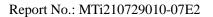
Test condition 1: Mode 5 operating mode with client device (1 % battery status of client device)

	Droho	E –field (V/m)		H–field (A/m)						
Antenna	Probe Position	Measurement	Limit	Max. Percentage (%)	Measurement	Limit	Max. Percentage (%)			
	Z axis	2.0213	614		0.0809					
	Left	2.3281			0.1208					
4	Right	1.5943		614	614	614	N14 0.400/	0.0707	1.63	05.070/
1	Front	2.4543				0.40%	0.0827	1.05	25.37%	
	Rear	1.4624					0.2138			
	Bottom	0.7495			0.4136					
Conclusio	Conclusion: The Measurement value is less than 50% MPE limit, which meets the requirements.									

Test condition 2: Mode 5 operating mode with client device (50 % battery status of client device)

Antonno	Probe		E –field (V/m)		H–field (A/m)				
Antenna	Position	Measurement	Limit	Percentage (%)	Measurement	Limit	Percentage (%)		
	Z axis	2.0233	614		0.0820				
	Left	2.3276		614			0.1210		
4	Right	1.5956			0.400/	0.0727	1.63	23.40%	
1	Front	2.4545			614 0.40%	0.0838			
	Rear	1.4635				0.2155			
	bottom	0.7326			0.3815				
Conclusion: The Measurement value is less than 50% MPE limit, which meets the requirements.									







Antenna	Probe Position	E –field (V/m)			H–field (A/m)		
		Measurement	Limit	Percentage (%)	Measurement	Limit	Percentage (%)
1	Z axis	2.0210	614	0.39%	0.0802	1.63	24.05%
	Left	2.3254			0.1202		
	Right	1.5934			0.0694		
	Front	2.4026			0.0815		
	Rear	1.4616			0.2129		
	bottom	0.7201			0.3920		
Conclusio	n: The M	easurement va	lue is less tha	n 50% MPE lir	nit, which meets	the requiren	nents.



Photographs of the test setup

See the APPENDIX 2 - Test Setup Photo.

Photographs of the EUT

See the APPENDIX 1 - EUT PHOTO.

----End of Report----