

Test Report

Report No.: MTi220810014-02E2

Date of issue: 2022-09-13

Applicant: GCteq Wireless (Shenzhen) Co., Ltd.

Product: Wireless charger

Model(s): GF06 mini 12V

FCC ID: 2ATX3-GF06MINI12V

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



Instructions

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- 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.
- 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:	GCteq Wireless (Shenzhen) Co., Ltd.			
Address:	No. A402, Floor 4, Suojia Science park Complex Sanwei Community, Hangcheng Street, Bao 'an, District, Shenzhen City, Guangdong Province, China			
Manufacturer:	GCteq Wireless (Shenzhen) Co., Ltd.			
Address:	No. A402, Floor 4, Suojia Science park Complex Sanwei Community, Hangcheng Street, Bao 'an, District, Shenzhen City, Guangdong Province, China			
Factory:	TEN PAO EIECTRONICS(HUIZHOU) Co., LTD.			
Address:	dongjiang industrial Estate, shuikou Street, Huizhou City, Guangdong Province, P.R.C			
Product description				
Product name:	Wireless charger			
Trademark:	GCteq			
Model name:	GF06 mini 12V			
Serial Model:	N/A			
Standards:	FCC CFR 47 PART 1, § 1.1310			
Test method:	KDB 680106 v03r01			
Date of Test	•			
Date of test:	2022-01-05 ~ 2022-08-04			
Test result:	Pass			

Note: The report changes the accessories(adapter), address of applicant and manufacturer, EUT photos on the basis of MTi211224014-04E2. The test data is not affected, citing the original report (date 2022-08-04).

Test Engineer	:	Yanice Xie			
		(Yanice Xie)			
Reviewed By:	:	leon chen			
		(Leon Chen)			
Approved By:	:	Tom Xue			
		(Tom Xue)			



1 General Description

1.1 Description of the EUT

Product name:	Wireless charger
Model name:	GF06 mini 12V
Series Model:	N/A
Model difference:	N/A
Electrical rating:	Input: DC 12V/2A Wireless Output: 5W, 7.5W, 10W
Accessories:	Adapter: Model: ZC024AHL120200U Input: 100-240V~ 50/60Hz 0.8A Output: 12V=2A 24W
Hardware version:	V1.0
Software version:	V1.0
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	Wireless Output(5W)		
Mode 2	Wireless Output(7.5W)		
Mode 3	Wireless Output(10W)		
Mode 4	Stand-by		
The test data only show worst test mode: Mode 3			

Address: 101, No. 7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinhe Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China Tel: (86-755)88850135 Fax: (86-755) 88850136 Web: www.mtitest.com E-mail: mti@51mti.com



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	obile phone S9 / SAMSUN							
Support cable list								
Description Length (m) From To								
/	/	/	/					



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		EHP-200A	101166	2022/05/05	2023/05/04

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.

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/cm²)	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/f²)	<6			
30-300	61.4	0.163	1.0	<6			
300-1500			f/300	<6			
1500-100000			5	<6			
	(ii) Limits for Genera	l Population/Uncontrolled E	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			

f = frequency in MHz

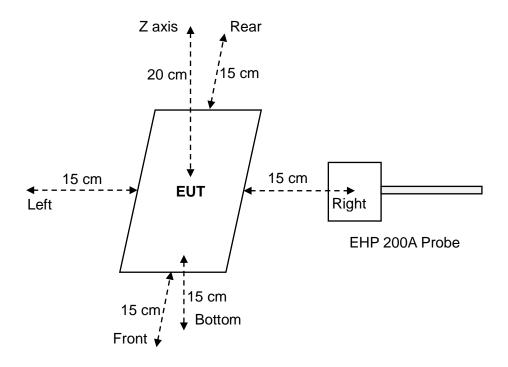
Note 1: Occupational/controlled exposure limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure.

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.

^{* =} Plane-wave equivalent power density



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
Power transfer frequency is less than 1 MHz.	Yes. The operating frequencies are: 115 kHz – 205 kHz
2. Output power from each primary coil is less than or equal to 15 watts	Yes. The maximum output power is: 10W
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 has one source primary coil.
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 3 operating mode with client device (1 % battery status of client device)

	Probe	E –field (V/m)			H–field (A/m)		
Antenna	Position	Measurement	Limit	Max. Percentage (%)	Measurement	Limit	Max. Percentage (%)
	Z axis	0.7466	614 0.20%	0.0553			
	Left	0.5315		614 0.20%	0.0478	1.63	3.39%
1	Right	0.8424			0.0546		
'	Front	1.2085			0.0495		
	Rear	0.8712			0.0501		
	Bottom	0.605			0.055		

Test condition 2: Mode 3 operating mode with client device (50 % battery status of client device)

Antenna	Probe	E -field (V/m)		H–field (A/m)			
Antenna	Position	Measurement	Limit	Percentage (%)	Measurement	Limit	Percentage (%)
	Z axis	0.7363	0.5206 0.8483 .1909 614 0.19%		0.0585		
	Left	0.5206		0.400/	0.0437	1.63	3.66%
	Right	0.8483			0.0567		
1	Front	1.1909		0.19%	0.0455		
	Rear	0.8525			0.0597		
	bottom	0.6001			0.0558		

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

Antenna	Probe Position	E –field (V/m)			H–field (A/m)		
		Measurement	Limit	Percentage (%)	Measurement	Limit	Percentage (%)
1	Z axis	0.7404	614	0.19%	0.0544	1.63	3.34%
	Left	0.5309			0.0419		
	Right	0.8273			0.0474		
	Front	1.1921			0.0431		
	Rear	0.8583			0.0449		
	bottom	0.6024			0.0507		



Photographs of the Test Setup

See the Appendix - Test Setup Photos.

Photographs of the EUT

See the Appendix - EUT Photos.

----End of Report----