

Test Report

Report No.: MTi210824001-08E2

Date of issue: Nov. 09, 2021

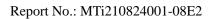
Applicant: Shenzhen Times Innovation Technology Co., Ltd.

Product: Wireless Charger

Model(s): BSWC-P10CX

FCC ID: 2AY37-P10CX

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





Instructions

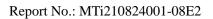
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2. The test results in this test report are only responsible for the samples submitted

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.

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:	Shenzhen Times Innovation Technology Co., Ltd.			
Address:	5th Floor, Building B, Baseus Intelligence Park, No.2008, Xuegang Rd, Gangtou Community, Bantian Street, Longgang District, Shenzhen.			
Manufacturer:	Shenzhen Times Innovation Technology Co., Ltd.			
Address:	5th Floor, Building B, Baseus Intelligence Park, No.2008, Xuegang Rd, Gangtou Community, Bantian Street, Longgang District, Shenzhen.			
Factory:	Dongguan Anju Electronic Technology Co., Ltd.			
Address:	harmony road, Shan UK Tsuen, Shijie, Guangdong Dongguan			
Product description	1			
Product name:	Wireless Charger			
Trademark:	N/A			
Model name:	BSWC-P10CX			
Serial Model:	N/A			
Standards:	FCC CFR 47 PART 1, § 1.1310			
Test method:	KDB 680106 v03r01			
Date of Test				
Date of test:	2021-08-24 ~ 2021-10-20			
Test result:	Pass			

Test Engineer :

Dowid. Cee

(David Lee)

Reviewed By: :

loor chen

(Leon Chen)

Approved By: :

Tom Kue

(Tom Xue)



1 General Description

1.1 Description of the EUT

Product name:	Wireless Charger
Model name:	BSWC-P10CX
Series Model:	N/A
Model difference:	N/A
Electrical rating:	Input: DC 5V/2A, 9V/2A, 12V/2A Output: 15W max
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	Operating mode(2.5W)			
Mode 2	Operating mode(5W)			
Mode 3	Operating mode(7.5W)			
Mode 4	Operating mode(10W)			
Mode 5	Operating mode(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
Mobile Phone	P30 Pro	/	HUAWEI
Adapter	CF-97	/	/
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		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 (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
	(i) Limits for Oc	cupational/Controlled Expo	sure	
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 I	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

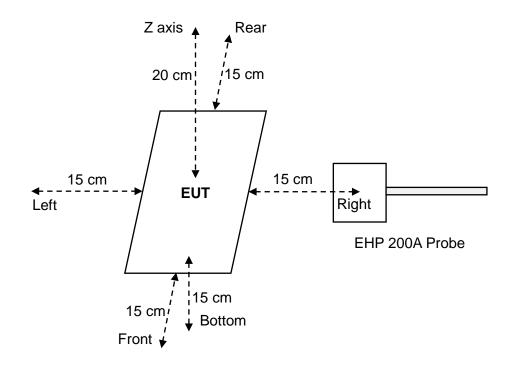
* = Plane-wave equivalent power density

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 kHz – 205 kHz
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 coil. Can charging a client.
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

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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	2.0202			0.0809			
	Left	2.3210	614		0.1203		05.070/	
4	Right	1.5938		0.400/	0.0710			
1	Front	2.4530		014	614 0.40%	0.0818	1.63	25.37%
	Rear	1.4623					0.2140	
	Bottom	0.7461			0.4134			
Conclusion: The Measurement value is less than 50% MPE limit, which meets the requirements.								

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

Antonno	Probe	E –field Probe (V/m)		H-field (A/m)				
Antenna	Position	Measurement	Limit	Percentage (%)	Measurement	Limit	Percentage (%)	
	Z axis	2.0241	614		0.0831			
	Left	2.3280				0.1220		
4	Right	1.5948		0.400/	0.0719	1.63	23.60%	
1	Front	2.4535		0.40%	0.0829			
	Rear	1.4640				0.2165		
	bottom	0.7312			0.3848			



Test condition 3: Mode 3 operating mode with client device (99 % battery status	of client device)
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Antenna	Probe Position	E –field (V/m)			H–field (A/m)		
		Measurement	Limit	Percentage (%)	Measurement	Limit	Percentage (%)
1	Z axis	2.0211	614	0.39%	0.0800	1.63	24.02%
	Left	2.3242			0.1203		
	Right	1.5930			0.0689		
	Front	2.4131			0.0815		
	Rear	1.4616			0.2121		
	bottom	0.7204			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----