

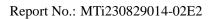
Test Report

Report No.:MTi230829014-02E2Date of issue:2023-09-23Applicant:Bytech NY Inc.Product:Wireless charger standModel(s):TC-OP-CP-101, TC-OP-CP-101-BK, TC-OP-CP-101-GR,
EPB-17192-BFCC ID:2AHN6-OPCP101

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

The test report is only used for customer scientific research, teaching, internal quality control and other purposes, and is for internal reference only.







Instructions

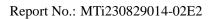
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 15 days from the date of receipt of the report.





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Test Result Certification					
Applicant:	Bytech NY Inc.				
Address: 2585 West 13th Street,Brooklyn NY 11223					
Manufacturer:	HONG KONG ETECH GROUPS LIMITED				
Address:	16/F, Block C, 2nd Phase of Central Avenue, Haihong Industrial Area, Xixiang Road, Baoan District, Shenzhen,518102 China				
Product description					
Product name:	Wireless charger stand				
Trademark:	N/A				
Model name:	TC-OP-CP-101				
Series Model:	TC-OP-CP-101-BK, TC-OP-CP-101-GR, EPB-17192-B				
Standards:	FCC CFR 47 PART 1, § 1.1310				
Test method:	KDB 680106 v03r01				
Date of Test					
Date of test:	2023-09-06 to 2023-09-21				
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 stand
Model name:	TC-OP-CP-101
Series Model:	TC-OP-CP-101-BK, TC-OP-CP-101-GR, EPB-17192-B
Model difference:	All the models are the same circuit and module, except the model name and color.
Electrical rating:	Input: DC 5V2A, 9V2A Transmitter1 Wireless Output: 5W/7.5W/10W Transmitter2 Wireless Output: 5W/7.5W/10W
Accessories:	N/A
Hardware version:	V1.0
Software version:	V1.0
Test sample(s) number:	MTi230829014-02S1001
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			
Mode1	Transmitter1 Wireless output(5W)			
Mode2	Transmitter1 Wireless output(7.5W)			
Mode3	Transmitter1 Wireless output(10W)			
Mode4 Transmitter2 Wireless output(5W)				
Mode5 Transmitter2 Wireless output(7.5W)				
Mode6	Transmitter2 Wireless output(10W)			
Mode7 Stand-by				
The test data only show worst test mode: Mode 3				

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. Man							
Mobile phone	Galaxy S9+	R28K34V79NT	SAMSUNG				
Adapter	LS-65WTAQCPD	/	Lenovo				
Support cable list	Support cable list						
Description Length (m) From To							
/	/	/	/				

2 Measurement uncertainty

Parameter	Expanded Uncertainty	
Magnetic field measurement (9kHz~30MHz)	±18.6%	
Electric field measurements (9kHz~30MHz)	±18.6%	

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-E115	Electric and Magnetic Field Probe – Analyzer		EHP-200A	101166	2023/08/14	2024/08/13



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.

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/f²)	<6					
30-300	61.4	0.163	1.0	<6					
300-1500			f/300	<6					
1500-100000			5	<6					
	(ii) Limits for Genera	al 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

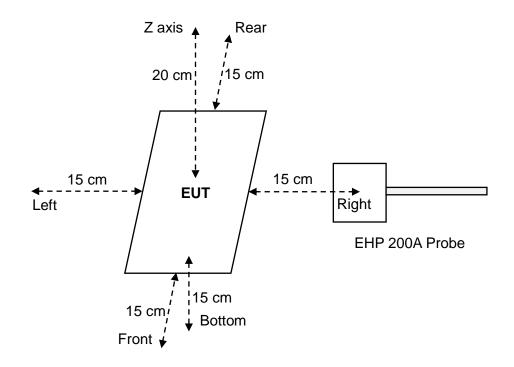
* = Plane-wave equivalent power density

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.



5.2 Test setup



5.3 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.



5.4 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: 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 two source primary coil. Coil 1 and coil 2 can't work simultaneously, the double coils at the transmitting end is to ensure that the plat can be charged at any position.
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 5.5.

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5.5 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)		
Position	Measurement	Limit	Percentage (%)	Measurement	Limit	Percentage (%)	
Z axis	2.5180			0.7707			
Left	2.7240			0.3946			
Right	2.7444	614	64.4	0.459/	0.1674	1.62	47.28%
Front	1.2909		0.45%	0.0488	1.63	47.20%	
Rear	1.6101			0.3842			
bottom	1.4215			0.4547			

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

Probe		E –field (V/m)			H–field (A/m)	
Position	Measurement	Limit	Max. Percentage (%)	Measurement	Limit	Max. Percentage (%)
Z axis	2.5295		0.45%	0.7708	4.00	47.00%
Left	2.7345			0.3925		
Right	2.7532	614		0.1607		
Front	1.2758		0.45%	0.0437	1.63	47.29%
Rear	1.6206		-	0.3767		
Bottom	1.4212			0.4521		

Test condition 3: Mode 3 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	2.5006	614	0.44%	0.7680	1.63	47.12%
Left	2.7151			0.3905		
Right	2.7303			0.1580		
Front	1.2830			0.0408		
Rear	1.6092			0.3830		
bottom	1.4035			0.4531		



Photographs of the Test Setup

See the Appendix - Test Setup Photos.

Photographs of the EUT

See the Appendix - EUT Photos.

----End of Report----