

TEST REPORT

Reference No. : WTF20S12103018W002 V2
FCC ID : 2AYBOBH-QPB50
Applicant..... : JVCKENWOOD USA Corporation
Address..... : 2201 E Dominguez St, Long Beach, California, United States
Manufacturer : Ningbo United Win Long Enterprises Co., Ltd
Address..... : Jiacun Industry Zone, Yinzhou District, Ningbo 315100, China
Product..... : WIRELESS POWER BANK
Model(s) : BH-QPB50
Standards..... : FCC CFR 47 Part 1.1307
FCC CFR 47 Part 1.1310
Date of Receipt sample : 2020-12-29
Date of Test : 2020-12-29 to 2021-02-02
Date of Issue..... : 2021-03-25
Test Result..... : **Pass**

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

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3 Revision History

Test report No.	Date of Receipt sample	Date of Test	Date of Issue	Purpose	Comment	Approved
WTF20S1210301 8W001	2020-12-29	2020-12-29 to 2021-02-02	2021-02-03	original	-	Replaced
WTF20S1210301 8W001 V1	2020-12-29	2020-12-29 to 2021-02-02	2021-03-24	Version 1	Updated	Replaced
WTF20S1210301 8W001 V2	2020-12-29	2020-12-29 to 2021-02-02	2021-03-25	Version 2	Updated	Valid

4 General Information

4.1 General Description of E.U.T

Product:	WIRELESS POWER BANK
Model(s):	BH-QPB50
Model Description:	N/A
Frequency Range:	110~205kHz
Modulation Type:	ASK
Antenna Type:	Coil Antenna

4.2 Details of accessories

Ratings:	Input:
	USB-C: 5V DC==3A
	Output:
	USB-C: 5V DC==3A
	USB-A: 5V DC==2.4A
	Wireless: 5W
	Battery:5000mAh

4.3 Test Mode

All the test model(s) and condition(s) mentioned were considered and evaluated respectively by performing full tests, the worst data were recorded and reported.

Description	Test channel	Test mode
Full Load*	131.2kHz	Transmitting with Ant
Half Load	131.2kHz	Transmitting with Ant
No Load	131.2kHz	Transmitting with Ant
All the mode were tested and passed, "*" show the worst case mode which were recorded in this report.		

4.4 Test Facility

The test facility has a test site registered with the following organizations:

ISED CAB identifier: CN0013. Test Firm Registration No.: 7760A.

FCC Designation No.: CN1201. Test Firm Registration No.: 523476.

5 Equipment Used during Test

5.1 Equipments List

RF EXPOSURE						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1	Magnetic Field Meter	NARDA	ELT-400	M-0155/M-0170	2020-07-24	2021-07-23
2	Field strength probe	NARDA	EP-601	611WX70311	2020-01-20	2021-01-19
					2021-01-13	2022-01-12

5.2 Description of Auxiliary Equipment

Equipment	Manufacturer	Model No.	Specification
Adapter	Shenzhen Yajingyuan Technology Co., Ltd	PA-B6S	N/A
Simulated load	/	/	/

5.3 Test Equipment Calibration

All the test equipments used are valid and calibrated by GUANG ZHOU GRG METROLOGY & TEST CO., LTD. address is No.163, Pingyun Rd. West of Huangpu Ave, Tianhe District, Guangzhou, Guangdong, China.

6 RF Exposure

Test Requirement:

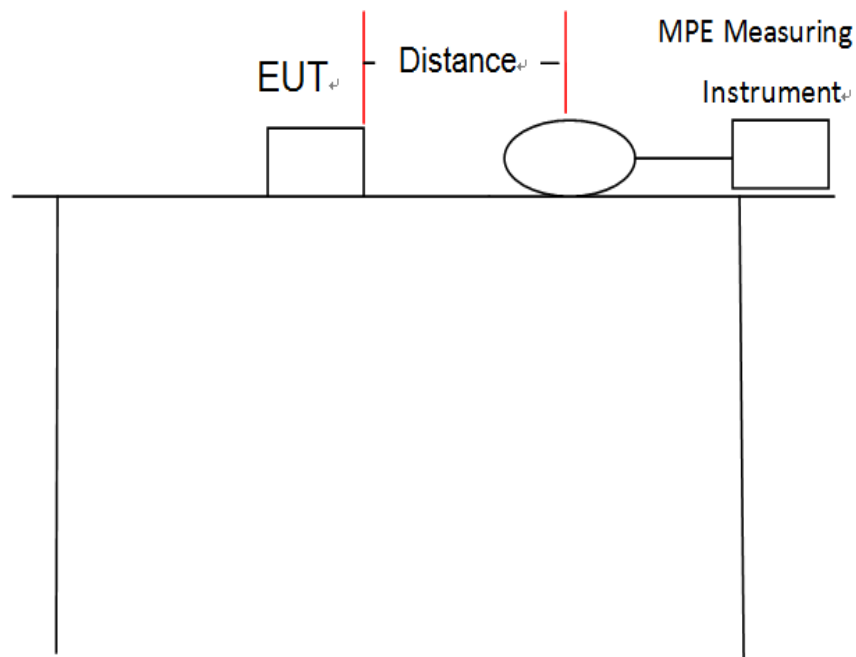
Environmental evaluation and exposure limit according to FCC CFR 47 Part 1.1307 (c) and (d), 1.1310. According KDB680106 D01 RF Exposure Wireless Charging Apps v03

6.1 Test Setup

These testing were performed at test configuration as follows.

EUT was placed on a table, and the measure probe was placed at a measurement distance of 20cm from the top of EUT to the center of the probe and 15cm from other directions of EUT to the center of the probe..

The EUT was put in different directions (Left, Right, Front, Rear, Top) to obtain the maximum reading.



6.2 RF Exposure limit

(A) Limits for Occupational / Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842 / f	4.89 / f	(900 / f)*	6
30-300	61.4	0.163	1.0	6
300-1500			F/300	6
1500-100,000			5	6

(B) Limits for General Population / Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-100,000			1.0	30

Note: f = frequency in MHz ; *Plane-wave equivalent power density

6.3 Test Data

E-Field(Transmitting with Ant Load):

Test Side	Separation Distance(cm)	E-Field Measured(V/m)	MPE Limit(V/m)	Result
Left	15	2.31	614	Compliance
Right	15	2.62	614	Compliance
Front	15	2.60	614	Compliance
Rear	15	2.54	614	Compliance
Top	20	2.72	614	Compliance
% of MPE Limit	0.44%		Limit	50%

H-Field(Transmitting with Ant Load):

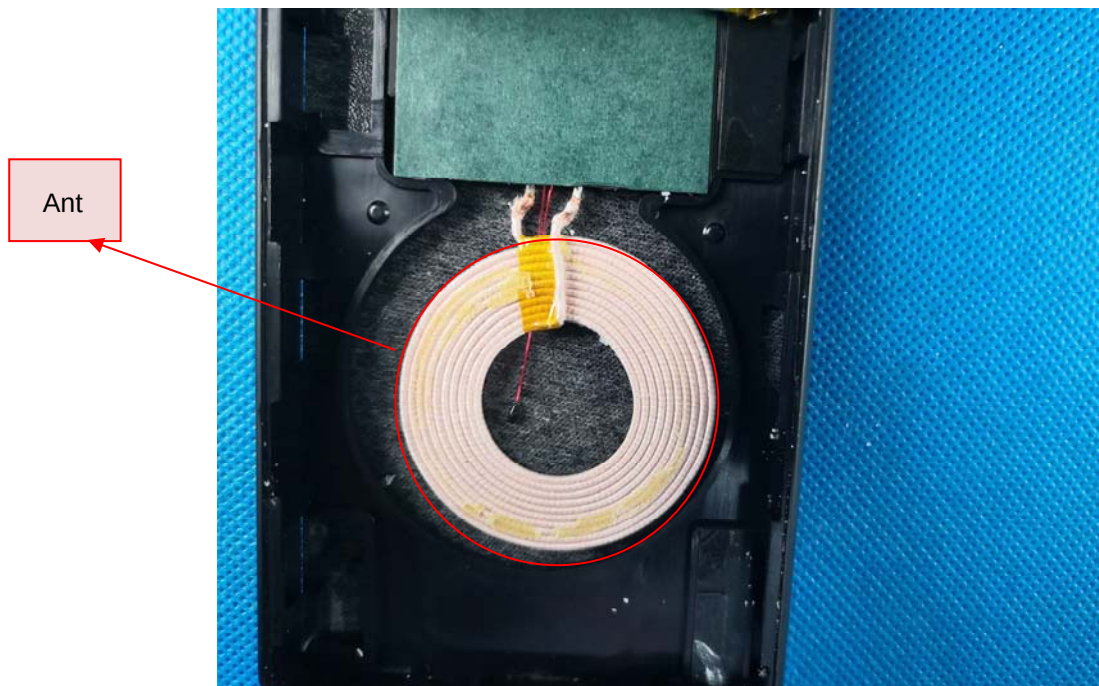
Test Side	Separation Distance(cm)	H-Field Measured(A/m)	MPE Limit(A/m)	Result
Left	15	0.088	1.63	Compliance
Right	15	0.094	1.63	Compliance
Front	15	0.078	1.63	Compliance
Rear	15	0.073	1.63	Compliance
Top	20	0.062	1.63	Compliance
% of MPE Limit	5.767%		Limit	50%

Remark: The device meets the RF exposure limit at separation distance as specified in §1.1310 of the FCC Rules and meeting all of the following requirements as follows.

- (1) Power transfer frequency is less than 1 MHz.
- (2) Output power from each primary coil is less than or equal to 15 watts.
- (3) The transfer system includes only single primary and secondary coils. This includes charging systems that may have multiple primary coils and clients that are able to detect and allow coupling only between individual pairs of coils.
- (4) Client device is placed directly in contact with the transmitter.
- (5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).
- (6) The aggregate H-field strengths at 15 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.

6.4 EUT coupling surface area

The inductive area is below:



7 Photograph – RF Exposure Test Setup



=====End of Report=====