



# MPE TEST REPORT

Prepared for :

**Qingdao Zhonghaihuizhi Power Technology Co., Ltd.**  
**B2,5th floor section B, No.1, Keyuanwei 1st Road, Laoshan, Qingdao,**  
**Shandong, China**

**FCC ID: 2AISC-WSS503GBE**

**Product:** Wireless Charging Smart Bluetooth Speaker  
**Trade Name:** /  
**Model Name:** WSS-503GB-E,WSS-503BB-E,WSS-503GB-A,WSS-503BB-A,  
WSS-503GB-B,WSS-503BB-B,WSS-503GB-Au,WSS-503BB-Au  
**Date of Test:** June. 23, 2016 ~ June. 28, 2016  
**Date of Report:** June. 28, 2016  
**Report Number:** HUAKE160601012-E

Prepared By :

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## TEST REPORT VERIFICATION

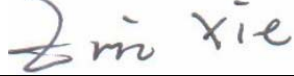
Applicant : Qingdao Zhonghaihui Power Technology Co., Ltd.  
Address : B2,5th floor section B, No.1, Keyuanwei 1st Road, Laoshan,  
Qingdao, Shandong, China  
Manufacturer : Qingdao Zhonghaihui Power Technology Co., Ltd.  
Address : B2,5th floor section B, No.1, Keyuanwei 1st Road, Laoshan,  
Qingdao, Shandong, China  
EUT Description : Wireless Charging Smart Bluetooth Speaker  
(A) Model No. : WSS-503GB-E  
WSS-503BB-E, WSS-503GB-A, WSS-503BB-A,  
(B) Serial Model : WSS-503GB-B, WSS-503BB-B, WSS-503GB-Au, WSS-503BB-Au  
Input voltage: DC9V 3A From adapter  
(C) Power Supply : Output voltage: DC5V 1A

**Standards** ..... FCC CFR 47 part1, 1.1310


This device described above has been tested by HUAKE, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Test Result..... **Pass**

Testing Engineer :   
(Eric Xie)

Technical Manager :   
(Dora Qin)

Authorized Signatory :   
(Kait Chen)



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### Release Control Record

Issue No.	Description	Date Issued
HUA160601012-E	Original release.	Jun. 27, 2016



## 1. GENERAL DESCRIPTION OF EUT

Equipment	Wireless Charging Smart Bluetooth Speaker
Trade Name	N/A
Model Name	WSS-503GB-E
Series Model	WSS-503BB-E, WSS-503GB-A, WSS-503BB-A, WSS-503GB-B, WSS-503BB-B, WSS-503GB-Au, WSS-503BB-Au
Model Difference	All the model are the same circuit, except the appearance colour, this report only test mode name: WSS-503GB-E.
Equipemnt Category	Non-ISM frequency
Frequency band	110-205KHz
Modulation Type	ASK
Power Adapter:	Input voltage: DC9V 3A From adapter Output voltage: DC5V 1A
Hardware version number	--
Software versioning number	--

## Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
- 2.

Channel List							
Channel	Frequency (KHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	125						

The EUT antenna is Coil Antenna. No antenna other than that furnished by the responsible party shall be used with the device.



## 2. SUMMARY OF TEST RESULTS

### 2.1 Test procedures according to the technical standards:

FCC KDB 680106 D01 RF Exposure Wireless Charging Apps v02

FCC CFR 47			
Standard Section	Test Item	Judgment	Remark
FCC CFR 47 part1, 1.1310 KDB680106 D01v02 (3)(3)	Electric Field Strength (E) (V/m)	PASS	
	Magnetic Field Strength (H) (A/m)	PASS	

### Test Location

Test Firm : Shenzhen WST Testing Technology Co., Ltd.  
Certificated by FCC, Registration No.: 939433  
Address : 1F,No.9 Building,TGK Science & Technology Park,Yangtian Rd.,  
NO.72 Bao'an Dist., Shenzhen,Guangdong,China. 518101

### 2.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement  $y \pm U$ , where expended uncertainty  $U$  is based on a standard uncertainty multiplied by a coverage factor of  $k=2$ , providing a level of confidence of approximately **95 %**.

No.	Item	Uncertainty
1	All emissions,radiated(<30M)(9KHz-30MHz)	$\pm 2.45\text{dB}$
2	Temperature	$\pm 0.5^\circ\text{C}$
3	Humidity	$\pm 2\%$



## 2.3 Test Instruments

Description	Brand	Model No.	Frequency Range	Calibrated Date	Calibrated Until
Broadband Field Meter	NARDA	NBM-550	-	Feb. 09, 2016	Feb. 08, 2017
Magnetic Field Meter	NARDA	ELT-400	1 – 400kHz	Feb. 11, 2016	Feb. 10, 2017
Magnetic Probe	NARDA	HF-3061	300kHz – 30MHz	Feb. 09, 2016	Feb. 08, 2017
Magnetic Probe	NARDA	HF-0191	27 – 1000MHz	Feb. 09, 2016	Feb. 08, 2017
Broadband Field Meter	NARDA	NBM-550	-	Feb. 09, 2016	Feb. 08, 2017
Electric Field Meter	COMBINOVA	EFM 200	5Hz – 400kHz	Oct. 16, 2015	Oct. 15, 2016
E-Field Probe	NARDA	EF-0391	100kHz – 3GHz	Feb. 09, 2016	Feb. 08, 2017
E-Field Probe	NARDA	EF-6091	100MHz – 60GHz	Feb. 09, 2016	Feb. 08, 2017

NOTE: 1. The calibration interval of the above test instruments is 12 months and



### 3. MAXIMUM PERMISSIBLE EXPOSURE

#### 3.1 MAXIMUM PERMISSIBLE EXPOSURE

##### Limit of Maximum Permissible Exposure

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 <sup>2</sup> )	Averaging Time  E  <sup>2</sup> , H  <sup>2</sup> 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
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 <sup>2</sup> )	Averaging Time  E  <sup>2</sup> , H  <sup>2</sup> 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	30

Note 1: f = frequency in MHz ; \*Plane-wave equivalent power density

Note 2: For the applicable limit, see FCC 1.1310, 680106 D01 RF Exposure Wireless Charging Apps v02

Note 3: Emissions between 100 kHz to 300 kHz should be assessed versus the limits at 300 kHz in Table 1 of Section 1.1310: 614 V/m and 1.63 A/m. A KDB inquiry is required to determine the applicable exposure limits below 100 kHz.

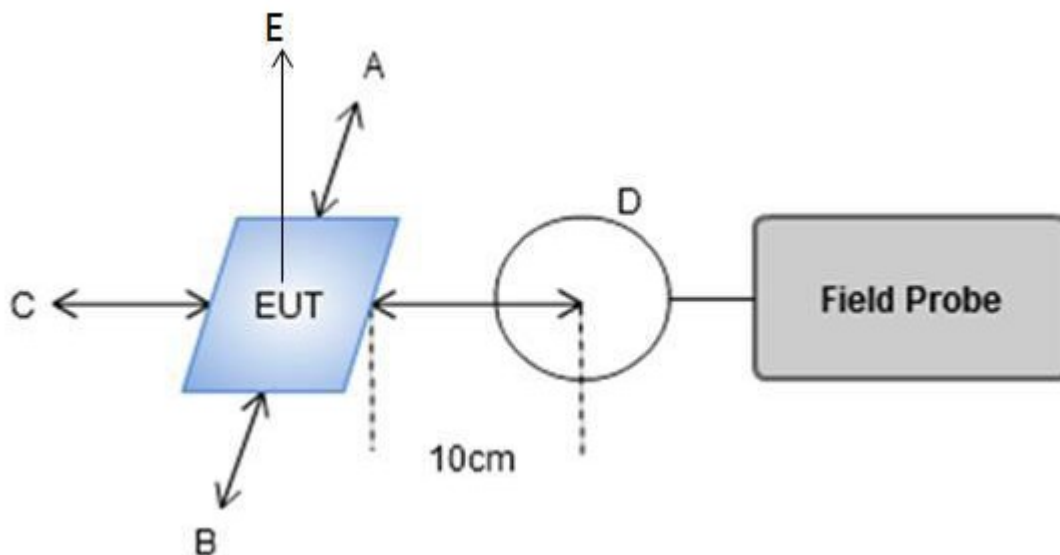




#### 4. TEST PROCEDURE

a. For devices designed for typical desktop applications, such as wireless charging pads, RF exposure evaluation should be conducted assuming a user separation distance of 10 cm. E and H field strength measurements or numerical modeling may be used to demonstrate compliance. Measurements should be made from all sides and the top of the primary/client pair, with the 10 cm measured from the center of the probe(s) to the edge of the device.

##### 4.1 TEST SETUP



##### 4.2 RESULT OF MAXIMUM PERMISSIBLE EXPOSURE

Maximum Permissible Exposure				
Charging	Separation	Probe from EUT Side	E-field (V/m)	H-field Limit (A/m)
< 1% Battery	10cm	A	1.34	0.343
< 1% Battery	10cm	B	1.55	0.352
< 1% Battery	10cm	C	1.53	0.341
< 1% Battery	10cm	D	1.63	0.345
< 1% Battery	10cm	E	5.4	0.326
Limit			614	1.63
Margin Limit (%)			0.87%	21.59%

\*\*\*\*\*END OF THE REPORT\*\*\*\*\*