FCC TEST REPORT

FCC ID : WC2DS-492

Applicant : Wonders Technology Co., Ltd.

Address : DOSS Industrial Zone, Qiping Kengdu Industrial Area, Guihua Village,

Guanlan Town, Baoan District, Shenzhen, China

Equipment Under Test (EUT):

Product description : Wireless Speaker

Model No. : DS-492, EC-W160

Standards : FCC 15 Paragraph 15.249

Date of Test : August 29, 2009

Test Engineer : Olic huang

Reviewed By : Thelo 24 on

PERPARED BY:

Waltek Services (Shenzhen) Co., Ltd.

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3 Test Summary

Test	Test Requirement	Test Method	Class / Severity	Result
Radiated Emission (30MHz to 10GHz)	FCC PART 15: 2007	ANSI C63.4: 2003	N/A	PASS
Conducted Emission (150KHz to 30MHz)	FCC PART 15: 2007	ANSI C63.4: 2003	Class B	PASS
Occupied Bandwidth	FCC PART 15: 2007	ANSI C63.4: 2003	Note	PASS

Note: Please refers to the FCC PART 15.249 for the more details

4 General Information

4.1 Client Information

Applicant: Wonders Technology Co., Ltd.

Address: DOSS Industrial Zone, Qiping Kengdu Industrial Area, Guihua

Village, Guanlan Town, Baoan District, Shenzhen, China

FCC ID: WC2DS-492

Manufacturer: Wonders Technology Co., Ltd.

Address: DOSS Industrial Zone, Qiping Kengdu Industrial Area, Guihua

Village, Guanlan Town, Baoan District, Shenzhen, China

4.2 General Description of E.U.T.

Product description: Wireless Speaker Model No.: DS-492,EC-W160

Model Description: The components of PCB and circuit of EUT are identical

except the color and appearance of EUT. DS-492 is the test

sample.

4.3 Details of E.U.T.

Power Supply: Adapter Input: 100-240VAC, 50/60Hz

Adapter Output: 9.0VDC, 1.5A

4.4 Description of Support Units

The EUT has been tested as a transmitter unit.

4.5 Standards Applicable for Testing

The customer requested FCC tests for a Wireless Speaker. The standards used were FCC 15 Paragraph 15.249, Paragraph 15.207, Paragraph 15.209, Paragraph 15.31, Paragraph 15.33, Paragraph 15.35.

4.6 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• IC – Registration No.:7760A

Waltek Services(Shenzhen) Co., Ltd. has been registered and fully described in a report filed with the Industry Canada. The acceptance letter from the Industry Canada is maintained in our files. Registration No.:7760A,July 24,2008.

FCC ID: WC2DS-492

• FCC – Registration No.: 880581

Waltek Services (Shenzhen) Co., Ltd. has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No.:880581, June 24, 2008.

4.7 Test Location

All Emissions tests were performed at:-

Waltek Services(Shenzhen) Co., Ltd. at 1/F, Fukangtai Building, West Baima Rd., Songgang Street, Baoan District, Shenzhen 518105, China.

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5 Equipment Used during Test

Equipment Name	Manufacturer Model	Equipment No	Internal No	Specification	Cal. Date	Due Date	Cert. No	Uncertainty
EMC Analyzer	Agilent/ E7405A	MY451149 43	W2008001	9k-26.5GHz	Aug-09	Aug-10	Wws200 81596	±1dB
Trilog Broadband Antenne 30-3000 MHz	SCHWARZB ECK MESS-ELEK TROM/ VULB9163	336	W2008002	30-3000 MHz	Aug-09	Aug-10	61370	±1dB
Broad-band Horn Antenna 1-18 GHz	SCHWARZB ECK MESS-ELEK TROM/ VULB9163	667	W2008003	1-18GHz	Aug-09	Aug-10		f<10 GHz: ±1dB 10GHz <f< 18 GHz: ±1.5dB</f<
Broadband Preamplifie r 0.5-18 GHz	SCHWARZB ECK MESS-ELEK TROM/ BBV 9718	9718-148	W2008004	0.5-18GHz	Aug-09	Aug-10		±1.2dB
10m Coaxial Cable with N-male Connectors usable up to 18GHz,	SCHWARZB ECK MESS-ELEK TROM/ AK 9515 H	-	-	-	Aug-09	Aug-10		-
10m 50 Ohm Coaxial Cable with N-plug,indi vidual length,usab le up to 3(5)GHz, Connector	SCHWARZB ECK MESS-ELEK TROM/ AK 9513				Aug-09	Aug-10		
Positioning Controller	C&C LAB/ CC-C-IF				N/A	N/A		
Color Monitor	SUNSPO/ SP-14C				N/A	N/A		
Test Receiver	ROHDE&SC HWARZ/ ESPI	101155	W2005001	9k-3GHz	Aug-09	Aug-10	Wws200 80942	±1dB
EMI Receiver	Beijingkehua n	KH3931		9k-1GHz	Aug-09	Aug-10		
Two-Line V-Network	ROHDE&SC HWARZ/ ENV216	100115	W2005002	50Ω/50μΗ	Aug-09	Aug-10	Wws200 80941	±10%
Absorbing Clamp	ROHDE&SC HWARZ/ MDS-21	100205	W2005003	impandance50 Ω loss : 17 dB	Aug-09	Aug-10	Wws200 80943	±1dB

Equipment Name	Manufacturer Model	Equipment No	Internal No	Specification	Cal.	Due Date	Cert. No	Uncertainty
10m 50 Ohm Coaxial Cable with N-plug,indi vidual length,usab le up to 3(5)GHz, Connectors	SCHWARZB ECK MESS-ELEK TROM/ AK 9514				Aug-09	Aug-10		
Digital Power Analyzer	Em Test AG/Switzerla nd/ DPA 500	V07451 03095	W2008012	Power: 2000VA Vol-range: 0-300V Freq_range: 10-80Hz	Aug-09	Aug-10	Wwd200 81185	Voltage distinguish:0 .025% Power_freq
Power Source	Em Test AG/Switzerla nd/ ACS 500	V07451 03096	W2008013	Vol-range: 0-300V Power_freq: 10-80Hz				distinguish:0 .02Hz
Electrostati c Discharge Simulator	Em Test AG/Switzerla nd/DITO	V07451 03094	W2008005	Contact discharge: 500V-10KV Air diacharge: 500V-16.5KV	Aug-09	Aug-10	Wwc200 82400	7.5A current will be changed in V _m =1.5V
RF Generator	TESEQ GmbH/ NSG4070	25781	W2008008	Fraq-range: 9K-1GHz RF voltage: -60 dBm-+10dBm	Aug-09	Aug-10	Wws200 81890	Power_freq distinguish0. 1Hz RFeletricity distinguish 0.1 B
CDN M-Type	TESEQ GmbH/ CDN M016	25112	W2008009	Voltage correct factor 9.5 dB	Aug-09	Aug-10	Wwc200 82396	150K-80MH z: ±1dB 80-230MHz: -2-+3dB
EM-Clamp	TESEQ GmbH/ KEMZ 801	25453	W2008010	Freq_range: 0.15-1000 MHz	Aug-09	Aug-10	Wwc200 82397	0.3-400 MHz: ±4dB Other freq: ±5dB
Attenuator 6dB	TESEQ GmbH/ ATN6050	25365			Aug-09	Aug-10	Wws200 81597	
All Modules Generator	SCHAFFNE R/6150	34579	W2008006	voltage:200V- 4.4KV Pulse current: 100A-2.2KA	Aug-09	Aug-10	Wwc200 82401	voltage: ±10% Pulse current: ±10%
Capacitive Coupling Clamp	SCHAFFNE R/ CDN 8014	25311			Aug-09	Aug-10	Wwc200 82398	-

Equipment Name	Manufacturer Model	Equipment No	Internal No	Specification	Cal. Date	Due Date	Cert. No	Uncertainty									
Signal and Data Line Coupling Network	SCHAFFNE R/ CDN 117	25627	W2008011	1.2/50μS	Aug-09	Aug-10	Wwc200 82399	-									
AC Power Supply	TONGYUN/ DTDGC-4				Aug-09	Aug-10	Wws200 80944	-									
Exposure Level Tester ELT-400	Narda Safety TEST Solutions/230 4/03	M-0155	w2008022	Test freq range: 1— 400kHz	Aug-09 Aug-10											Wwd200 -	Test uncertainly: 1— 120kHz:±1.8 3%, 120 kHz-400 kHz: ±4.06%
Magnetic Field Probe 100cm ²	Narda Safety TEST Solutions/230 0/90.10	M-1070	w2008021	Test freq range: 1— 400kHz		Aug-10	81191	Test uncertainly: 1Hz-10Hz: ±16.2%, 10Hz -120kHz:±2. 2%, 120 kHz-400 kHz: ±4.7%									
Active Loop Antenna Charger 10kHz-30 MHz	Beijing Dazhi / ZN30900A	-	-	10kHz-30MHz	Aug-09	Aug-10		±1dB									

6 Conducted Emission Test

Product Name: Wireless Speaker

Test Requirement: FCC Part15 Paragraph 15.207

Test Method: Based on FCC Part15 Paragraph 15.207

Test Date: August 26, 2009

Frequency Range: 150 kHz to 30MHz

Class: Class B

Detector: Peak for pre-scan (9 kHz Resolution Bandwidth)

Quasi-Peak & Average if maximised peak within 6dB of

FCC ID: WC2DS-492

Average Limit

6.1 Test Equipment

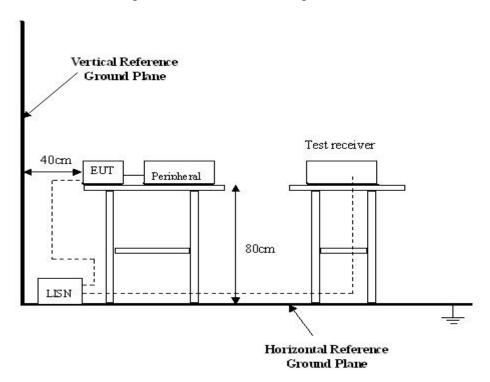
Please refer to Section 5 this report.

6.2 Test Procedure

- 1. The EUT was tested according to ANSI C63.4: 2003. The frequency spectrum from 150kHz to 30MHz was investigated.
- 2. The maximised peak emissions from the EUT was scanned and measured for both the Live and Neutral Lines. Quasi-peak & average measurements were performed if peak emissions were within 6dB of the average limit line.

6.3 Conducted Test Setup

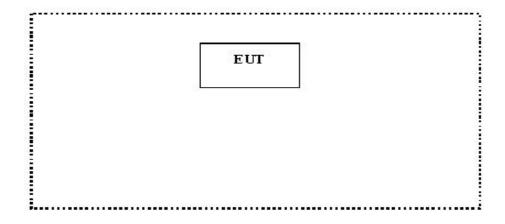
The conducted emission tests were performed using the setup accordance with the ANSI C63.4:2003, The specification used in this report was the FCC Part15 Paragraph 15.207 limits.



6.4 EUT Operating Condition

Operating condition is according to ANSI C63.4: 2003.

- A. Setup the EUT and simulators as shown on follow.
- B. Enable RF signal and confirm EUT active.
- C. Modulate output capacity of EUT up to specification.



6.5 Conducted Emission Limits

66-56 dB μ V/m between 0.15MHz & 0.5MHz 60 dB μ V/m between 0.5MHz & 5MHz

 $60 \text{ dB}\mu\text{V/m}$ between 5MHz & 30MHz

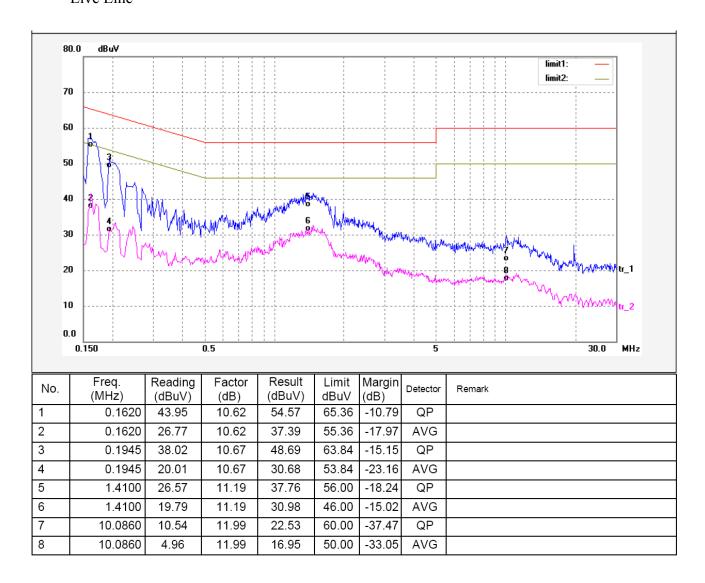
Note: In the above limits, the tighter limit applies at the band edges.

Remark: the EUT was tested on two modes: charging mode and normal working mode, and the worse case was charging mode, so the data show was the charging mode only.

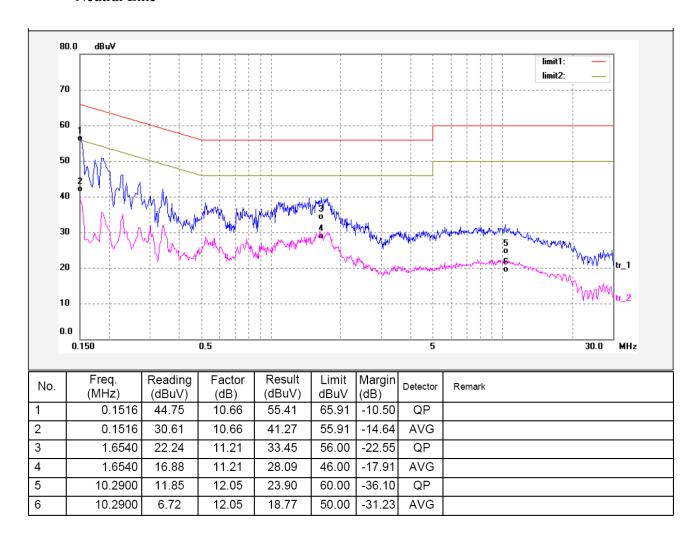
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6.6 Conducted Emission Test Result

Charging Mode Live Line



Neutral Line



7 Radiation Emission Test

Product Name: Wireless Speaker

Test Requirement: FCC Part15 Paragraph 15.249

Test Method: Based on FCC Part15 Paragraph 15.31 and Paragraph 15.33

Test Date: August 26, 2009 Frequency Range: 30MHz to 10GHz

Measurement Distance: 3m

Detector: Peak for pre-scan (120kHz resolution bandwidth)

Quasi-Peak if maximised peak within 6dB of limit

FCC ID: WC2DS-492

7.1 Test Equipment

Please refer to Section 5 this report.

7.2 Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in the field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase centre variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

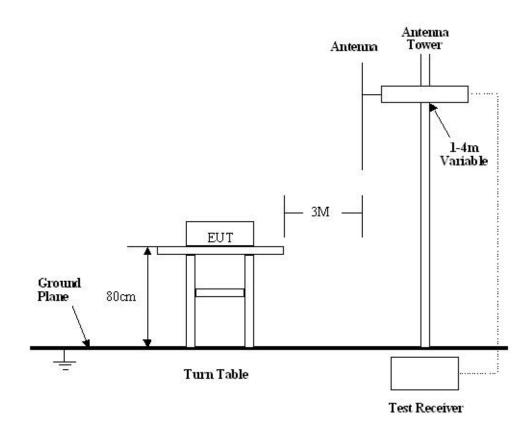
Based on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of a radiation emissions measurement at Waltek EMC Lab is ± 5.03 dB.

7.3 Test Procedure

- 1. Maximizing procedure was performed on the six (6) highest emissions to ensure EUT is compliant with all installation combinations.
- 2. All data was recorded in the peak and average detection mode.
- 3. The EUT was under normal mode during the final qualification test and the configuration was used to represent the worst case results.
- 4. According to the FCC Part15 Paragraph 15.249, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna to the intentional radiator shall be considered sufficient to comply with the provisions of this section. This product has a permanent antenna, fulfil the requirement of this section.

7.4 Radiated Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site, using the setup accordance with the ANSI C63.4: 2003, The specification used in this report was the FCC Part15 Paragraph 15.249 and Paragraph 15.209 limits.



7.5 Spectrum Analyzer Setup

According to FCC Part15 Paragraph 15.249 Rules, the system was tested to 10GHz. Below 1GHz

Start Frequency	30 MHz
Stop Frequency	1000 MHz
Sweep Speed Auto	
IF Bandwidth	120 KHz
Video Bandwidth	100KHz
Quasi-Peak Adapter Bandwidth	120 KHz
Quasi-Peak Adapter Mode	Normal
Resolution Bandwidth	100KHz

Above 1GHz

Start Frequency	1000 MHz
Stop Frequency	10000 MHz
Sweep Speed Auto	
IF Bandwidth	120 KHz
Video Bandwidth	1 M Hz
Quasi-Peak Adapter Bandwidth	120 KHz
Quasi-Peak Adapter Mode	Normal
Resolution Bandwidth	1M Hz

7.6 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

Corr. Ampl. = Indicated Reading + Antenna Factor + Cable Factor - Amplifier Gain

The "Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of $-7dB\mu V$ means the emission is $7dB\mu V$ below the maximum limit for Class B. The equation for margin calculation is as follows:

Margin = Corr. Ampl. – Class B Limit

7.7 Summary of Test Results

According to the data in section 6.10, the EUT complied with the FCC Part15 Paragraph 15.249 standards.

7.8 **EUT Operating Condition**

Same as section 6.4 of this report.

7.9 **Radiated Emissions Limit**

A. FCC Part 15 subpart C Paragraph 15.249 Limit

Fundamental Frequency		Strength of lamental	Field Strength of Harmonics		
rundamentai Frequency	mV/m	dBuV/m	uV/m	dBuV/m	
902-928MHz	50	94	500	54	
2400-2483.5 MHz	50	94	500	54	
5725-5875 MHz	50	94	500	54	
24.0-24.25GHz	250	108	2500	68	

Note:

- (1) RF Voltage(dBuV)=20 log RF Voltage(uV)
- (2) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
- (3) The emission limit in this paragraph is based on measurement instrumentaion employing an average detector. Measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit.
- (4) Above 1GHz,do a Peak and average measurements for all emissions,Limit for peak is 94dBuvV/m, According to Part15.35(b) and average is 54BuvV/m.

B. Frequencies in restricted band are complied to limit on Paragraph 15.209

Frequency(MHZ)	Distance(m)	Field strength(dBuV/m)
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

Note:

- (1) RF Voltage(dBuV)=20 log RF Voltage(uV)
- (2) In the Above Table, the tighter limit applies at the band edges.
- (3) Distance refers to the distance in meters between the measuring instrument antenna.

7.10 Radiated Emissions Test Result

Formula of conversion factors: the field strength at 3m was established by adding The meter reading of the spectrum analyzer (which is set to read in units of dBuV) To the antenna correction factor supplied by the antenna manufacturer. The antenna Correction factors are stared in terms of dB. The gain of the pressletor was accounted For in the spectrum analyser meter reading.

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Example:

Freq(MHz) Meter Reading +ACF=FS

33 20dBuV+10.36dB=30.36dBuV/m @3m

Radiated Emission Test Data

Test Mode: TX On
Temperature: 25.5 °C
Humidity: 51%RH
Test Result: PASS

30MHz-1GHz Radiated Emission Data

Remark: Three channels were tested and the worst case was channel 1,so the data were shown as follow:

Below 1GHz

Frequency(MHz)	Detector	Antenna Polarization	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Turntable Angle (°)		
	Channel 1								
52.03	QP	Vertical	34.02	40.00	5.98	1.2	10		
457.12	QP	Vertical	43.23	46.00	2.77	1.2	30		
641.02	QP	Vertical	40.36	46.00	5.64	1.0	120		
48.63	QP	Horizontal	33.65	40.00	6.35	1.1	100		
456.98	QP	Horizontal	41.93	46.00	5.07	1.3	160		
657.52	QP	Horizontal	41.25	46.00	5.75	1.3	140		

1GHz-10GHz Radiated Emission Data

Frequency(MHz)	Detector	Antenna Polarization	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Turntable Angle (°)
			Chanr	nel 1			
914.00	AV	Vertical	80.23	94.00	13.77	1.2	0
914.00	AV	Horizontal	85.36	94.00	8.64	1.3	135
1824.00	AV	Vertical	45.36	54.00	8.64	1.4	90
2742.00	AV	Vertical	44.65	54.00	9.35	1.6	180
3656.00	AV	Vertical	39.85	54.00	14.15	1.2	160
4570.00	AV	Vertical	37.25	54.00	16.75	1.4	170
5484.00	AV	Vertical	37.45	54.00	16.55	1.3	135
6398.00	AV	Vertical	39.15	54.00	14.85	1.5	10
7312.00	AV	Vertical	39.00	54.00	15.00	1.4	120
8226.00	AV	Vertical	38.04	54.00	17.96	1.5	90
9140.00	AV	Vertical	37.00	54.00	17.00	1.4	150
1824.00	AV	Horizontal	45.26	54.00	8.74	1.2	150
2742.00	AV	Horizontal	46.35	54.00	7.65	1.5	45
3656.00	AV	Horizontal	43.12	54.00	10.88	1.2	90
4570.00	AV	Horizontal	43.00	54.00	11.00	1.5	60
5484.00	AV	Horizontal	41.20	54.00	12.80	1.2	30
6398.00	AV	Horizontal	38.39	54.00	17.61	1.4	30
7312.00	AV	Horizontal	33.77	54.00	20.23	1.5	155
8226.00	AV	Horizontal	32.25	54.00	21.75	1.1	145
9140.00	AV	Horizontal	33.21	54.00	20.79	1.4	80
914.00	PK	Vertical	100.24	114.00	13.80	1.0	150
914.00	PK	Horizontal	105.23	114.00	9.77	1.1	150
1824.00	PK	Vertical	51.85	74.00	22.15	1.2	20
2742.00	PK	Vertical	58.45	74.00	15.55	1.1	70
3656.00	PK	Vertical	47.25	74.00	26.75	1.4	90
4570.00	PK	Vertical	47.34	74.00	26.66	1.1	40
5484.00	PK	Vertical	46.78	74.00	27.22	1.2	110
6398.00	PK	Vertical	46.77	74.00	27.23	1.1	60
7312.00	PK	Vertical	44.58	74.00	29.42	1.2	20
8226.00	PK	Vertical	43.44	74.00	30.56	1.1	170
9140.00	PK	Vertical	41.02	74.00	32.98	1.2	90

1824.00	PK	Horizontal	53.12	74.00	20.88	1.2	60
2742.00	PK	Horizontal	57.88	74.00	15.12	1.2	180
3656.00	PK	Horizontal	44.33	74.00	29.67	1.2	10
4570.00	PK	Horizontal	43.56	74.00	30.44	1.3	20
5484.00	PK	Horizontal	44.44	74.00	29.56	1.1	60
6398.00	PK	Horizontal	43.00	74.00	31.00	1.0	10
7312.00	PK	Horizontal	46.35	74.00	27.65	1.2	50
8226.00	PK	Horizontal	45.44	74.00	28.56	1.3	150
9140.00	PK	Horizontal	39.00	74.00	35.00	1.2	135

Note: Above 1GHz, do a Peak and average measurements for all emissions, limit for peak is 74BuvV/m, according to Part 15.35(b) and average is 54BuvV/m.

8 Occupied Bandwidth

8.1 Test Equipment

Please refer to Section 5 this report.

8.2 Test Procedure

1. The EUT, peripherals were put on the turntable which table size is 1mX1.5m, table high 0.8m. All set up is according to ANSI C63.4: 2003.

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2. The bandwidth of the fundamental frequency was measure by spectrum analyser with 100KHz RBW and 100KHz VBW. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power 20dB.

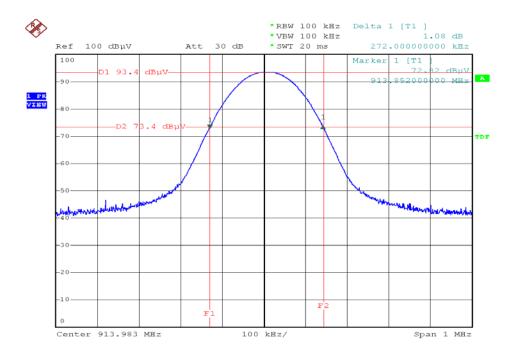
8.3 Band Edge Test Result

Product Name: Wireless Speaker

Test Item: Occupied Bandwidth Test

Test Mode: TX On
Temperature: 25.5 °C
Humidity: 51%RH

Channel 1



Note: (1) The field strength of any emissions which appear outside of this band shall not exceed the general radiated emission limits in Section 15.249.

(2) This device does meet the FCC requirement.

9 Photographs of Testing

9.1 Conduction Emission Test View



9.2 Radiation Emission Test View For 30MHz-1000MHz



9.3 Radiation Emission Test View For 1GHz-10GHz



10 Photographs - Constructional Details

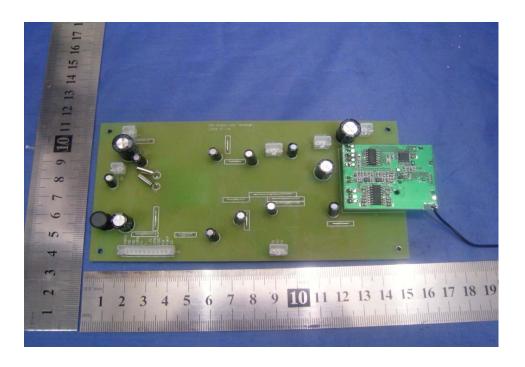
10.1 EUT – Front View



10.2 EUT - Back View



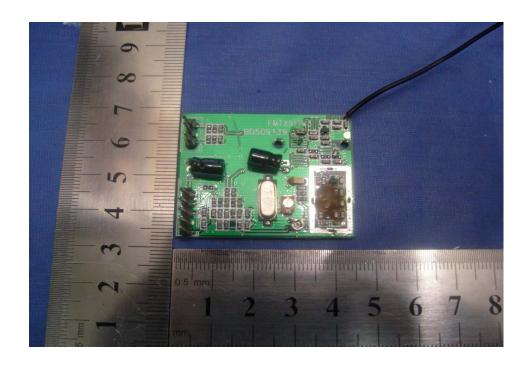
10.3 PCB1 of EUT -Front View



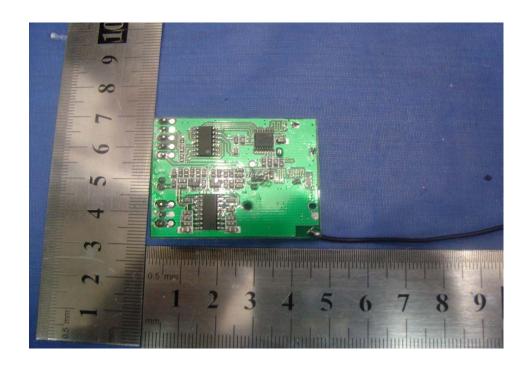
10.4 PCB1 of EUT- Back View



10.5 PCB2 of EUT- Front View



10.6 PCB2 of EUT- Back View



11 FCC ID Label

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation

The Label must not be a stick-on paper. The Label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Proposed Label Location on EUT
EUT Bottom View/proposed FCC Mark Location

