FCC CERTIFICATION On Behalf of Shenzhen Kingsun Enterprises Co., Ltd.

Wireless Headphone Model No.: MF-210

FCC ID: UYFMF210T

Prepared for : Shenzhen Kingsun Enterprises Co., Ltd.

Address : 25F, CEC Information Building, Xinwen Rd., Shenzhen

Guangdong, P.R.China

Prepared by : ACCURATE TECHNOLOGY CO. LTD

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Report Number : ATE20070164
Date of Test : January 15, 2007
Date of Report : January 19, 2007

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Test Report Certification

ApplicantShenzhen Kingsun Enterprises Co., Ltd.ManufacturerShenzhen Kingsun Enterprises Co., Ltd.

EUT Description : Wireless Headphone

(A) MODEL NO.: MF-210

(B) SERIAL NO.: N/A

(C) POWER SUPPLY: DC 3.0V (AAA Battery ×2)

Measurement Procedure Used:

FCC Rules and Regulations Part 15 Subpart C Section 15.239: 2006

The device described above is tested by ACCURATE TECHNOLOGY CO. LTD to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C Section15.239 limits. The measurement results are contained in this test report and ACCURATE TECHNOLOGY CO. LTD is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of ACCURATE TECHNOLOGY CO. LTD.

Date of Test:	January 15, 2007	
Prepared by :	sky Long	
	(Engineer)	
Reviewer:	Sean	
	(Quality Manager)	
Approved & Authorized Signer:	Martinh	
	(Manager)	

1. GENERAL INFORMATION

1.1.Description of Device (EUT)

EUT : Wireless Headphone

Model Number : MF-210

Power Supply : DC 3.0V (AAA Battery \times 2)

Operate Frequency : 88.4MHz

Channel : 1

iPod : Manufacturer: Apple

M/N: A1136

S/N: JQ543GF9SZA

Applicant : Shenzhen Kingsun Enterprises Co., Ltd.

Address : 25F, CEC Information Building, Xinwen Rd., Shenzhen

Guangdong, P.R.China

Manufacturer : Shenzhen Kingsun Enterprises Co., Ltd.

Address : 25F, CEC Information Building, Xinwen Rd., Shenzhen

Guangdong, P.R.China

Date of sample received: January 09, 2007
Date of Test: January 15, 2007

1.2.Description of Test Facility

EMC Lab : Accredited by TUV Rheinland Shenzhen, May 10, 2004

Accredited by FCC, May 10, 2004

The Certificate Registration Number is 253065

Accredited by Industry Canada, May 18, 2004 The Certificate Registration Number is IC 5077

Name of Firm : ACCURATE TECHNOLOGY CO. LTD

Site Location : F1, Bldg. A, Changyuan New Material Port, Keyuan Rd.

Science & Industry Park, Nanshan, Shenzhen, Guangdong

P.R. China

1.3. Measurement Uncertainty

Conducted emission expanded uncertainty = 2.23dB, k=2

Radiated emission expanded uncertainty = 4.12dB, k=2

2. MEASURING DEVICE AND TEST EQUIPMENT

Table 1: List of Test and Measurement Equipment

Kind of equipment	Manufacturer	Туре	S/N	Calibrated until
EMI Test Receiver	Rohde&Schwarz	ESCS30	100307	03.31.2007
EMI Test Receiver	Rohde&Schwarz	ESI26	838786/013	01.24.2008
Bilog Antenna	Schwarzbeck	VULB9163	9163-194	03.31.2007
Bilog Antenna	Chase	CBL6112B	2591	03.31.2007
Horn Antenna	Rohde&Schwarz	HF906	100013	01.24.2008
Spectrum Analyzer	Anritsu	MS2651B	6200238856	03.31.2007
Pre-Amplifier	Agilent	8447D	2944A10619	03.31.2007
L.I.S.N.	Rohde&Schwarz	ESH3-Z5	100305	03.31.2007
L.I.S.N.	Rohde&Schwarz	ESH3-Z5	100310	03.31.2007

3. RADIATED EMISSION FOR FCC PART 15 SECTION 15.239(C)

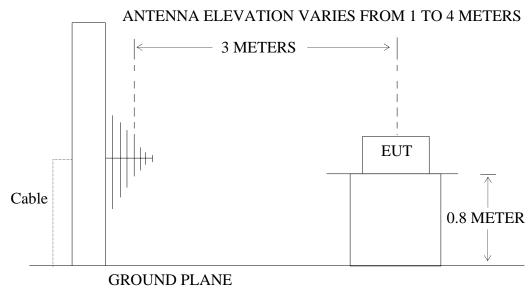
3.1.Block Diagram of Test Setup

3.1.1.Block diagram of connection between the EUT and simulators



(EUT: Wireless Headphone)

3.1.2. Anechoic Chamber Test Setup Diagram



(EUT: Wireless Headphone)

3.2. The Emission Limit for section 15.239(c)

3.2.1 The field strength of any emissions radiated on any frequency outside of the specified 200kHz band shall not exceed the general radiated emission limits in section 15.209

Radiation Emission Measurement Limits According to Section 15.209

	Limit,					
Frequency (MHz)	Field Strength of Quasi-peak Value (microvolts/m)	Field Strength of Quasi-peak Value (dBµV/m)	The final measurement in band 9-90kHz, 110-490kHz and above 1000MHz is			
30 - 88	100	40	performed with			
88 - 216	150	43.5	Average detector. Except those frequency bands			

216 - 960	200	46	mention above, the final measurement for
Above 960	500	54	frequencies below 1000MHz is performed with Quasi Peak detector.

3.3.Configuration of EUT on Measurement

The following equipment are installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

3.3.1. Wireless Headphone (EUT)

Model Number : MF-210 Serial Number : N/A

Manufacturer : Shenzhen Kingsun Enterprises Co., Ltd.

3.4. Operating Condition of EUT

3.4.1. Setup the EUT and simulator as shown as Section 3.1.

3.4.2. Turn on the power of all equipment.

Let the EUT work in TX modes [Connect EUT audio cable to iPod headphone jack and iPod playing typical audio signal(music song) with maximum audio level] measure it.

Note: The EUT is connected to iPod by the base interface of iPod. The input signal of EUT is controlled by iPod. so the volume control of iPod was set to maximum during the test. It means that the test was performed with the maximum audio input.

3.5.Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4: 2003 on radiated emission measurement.

The bandwidth of test receiver (R&S ESCS30) is set at 120KHz in 30-1000MHz; Set at 1MHz in above 1000MHz.

The frequency range from 30MHz to 1000MHz is checked.

The final measurement in band 9-90kHz, 110-490kHz and above 1000MHz is performed with Average detector. Except those frequency bands mention above, the final measurement for frequencies below 1000MHz is performed with Quasi Peak detector.

3.6. The Field Strength of Radiation Emission Measurement Results **PASS.**

The frequency range 30MHz to 1000MHz is investigated.

Date of Test:January 15, 2007Temperature:25°CEUT:Wireless HeadphoneHumidity:55%Model No.:MF-210Power Supply:DC 3.0V (AAA Battery × 2)Test Mode:TXTest Engineer:Andy

Polarization	Frequency (MHz)	Reading(dBµV/m) QP	Factor Corr.(dB)	Result(dBµV/m) QP	Limits(dBµV/m) QP	Margin(dBμV/m) QP
Horizontal	176.804	25.4	8.1	33.5	43.5	10.0
Horizontal	265.205	23.0	10.9	33.9	46.0	12.1
Horizontal	353.607	22.5	13.9	36.4	46.0	9.6
Horizontal	442.010	17.0	15.9	32.9	46.0	13.1
Horizontal	530.411	13.7	17.5	31.2	46.0	14.8
Horizontal	618.813	11.2	18.8	30.0	46.0	16.0
Horizontal	707.215	10.1	20.0	30.1	46.0	15.9
Vertical	176.812	26.3	8.5	34.8	43.5	8.7
Vertical	265.203	25.9	9.9	35.8	46.0	10.2
Vertical	353.603	20.4	14.0	34.4	46.0	11.6
Vertical	442.015	22.5	16.4	38.9	46.0	7.1
Vertical	530.403	17.2	18.3	35.5	46.0	10.5
Vertical	619.000	12.4	19.9	32.3	46.0	13.7
Vertical	707.202	9.1	21.4	30.5	46.0	15.5

The spectral diagrams in appendix I display the measurement of un-weighted peak values.

The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

Result = Reading + Corrected Factor

Where Corrected Factor = Antenna Factor + Cable Loss + High Pass Filter Loss - Amplifier Gain

Reviewer: Seem

4. FUNDAMENTAL RADIATED EMISSION FOR FCC PART 15 SECTION 15.239(B)

4.1.Block Diagram of Test Setup

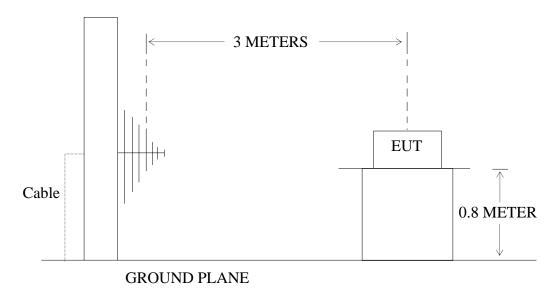
4.1.1.Block diagram of connection between the EUT and simulators



(EUT: Wireless Headphone)

4.1.2. Anechoic Chamber Test Setup Diagram

ANTENNA ELEVATION VARIES FROM 1 TO 4 METERS



(EUT: Wireless Headphone)

4.2. The Emission Limit For Section 15.239(b)

4.2.1 The field strength of any emission within the permitted 200kHz band shall not exceed 250microvolts/meter at 3 meters. The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in section 15.35 for limiting peak emissions apply.

4.3.EUT Configuration on Measurement

The following equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

4.3.1. Wireless Headphone (EUT)

Model Number : MF-210 Serial Number : N/A

Manufacturer : Shenzhen Kingsun Enterprises Co., Ltd.

4.4. Operating Condition of EUT

4.4.1. Setup the EUT and simulator as shown as Section 4.1.

4.4.2. Turn on the power of all equipment.

Let the EUT work in TX modes [Connect EUT audio cable to iPod headphone jack and iPod playing typical audio signal(music song) with maximum audio level] measure it.

Note: The EUT is connected to iPod by the base interface of iPod. The input signal of EUT is controlled by iPod. so the volume control of iPod was set to maximum during the test. It means that the test was performed with the maximum audio input.

4.5.Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4: 2003 on radiated emission measurement.

4.6. The Emission Measurement Result

PASS.

Date of Test:February 7, 2007Temperature:25°CEUT:Wireless HeadphoneHumidity:55%Model No.:MF-210Power Supply:DC 3.0V (AAA Battery ×2)Test Mode:TXTest Engineer:Andy

Fundamental Radiated Emissions

Frequency	Reading(dBµV/m)		Factor(dB)	Result(dBµV/m)		Limit(dBµV/m)		Margin(dBµV/m)		Polarizati
(MHz)	AV	PEAK	Corr.	AV	PEAK	AV	PEAK	AV	PEAK	on
88.4	40.6	44.3	6.3	46.8	50.6	48	68	1.2	17.4	Vertical
88.4	35.8	39.4	8.3	44.1	47.7	48	68	3.9	20.3	Horizontal

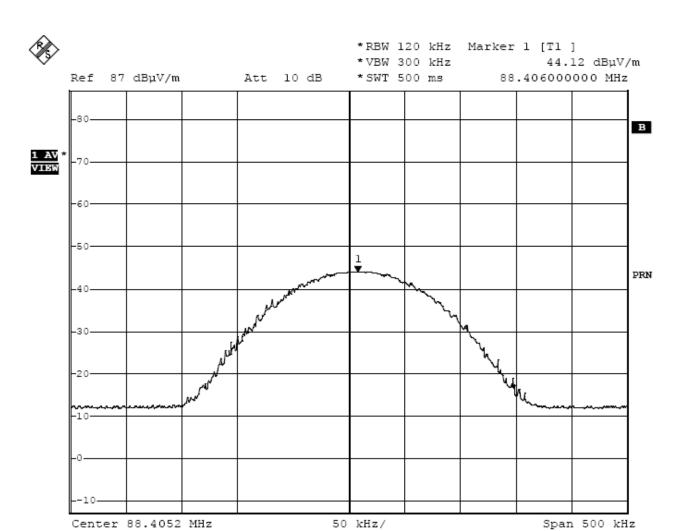
The Average measurement plots are attached as below.

The data of Average measurement in plots are with corrected factors.

The field strength is calculated by adding the antenna factor, high pass filter loss (if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

Result = Reading + Corrected Factor

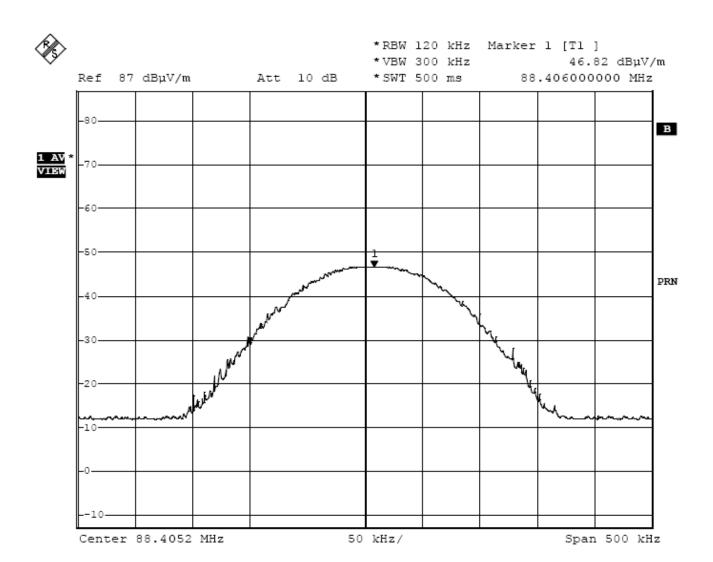
Where Corrected Factor = Antenna Factor + Cable Loss + High Pass Filter Loss - Amplifier Gain



Comment B: Manuf:Kingsun EUT: Wireless Headphone M/N:MF-210 Memo

: TX Antenna Polarization:Horizontal

Date: 7.FEB.2007 15:05:38



Comment B: Manuf:Kingsun EUT:Wireless Headphone M/N:MF-210 Memo :TX Antenna Polarization:Vertical

Date: 7.FEB.2007 15:21:58

5. OCCUPIED BANDWIDTH FOR FCC PART 15 SECTION

15.239(A)

5.1. The Requirement For Section 15.239(a)

5.1.1. Emission from the device shall be confined within a band 200kHz wide centered on the operating frequency. The 200kHz band shall lie wholly within the frequency range of 88-108MHz.

5.2.EUT Configuration on Measurement

The following equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

5.2.1. Wireless Headphone (EUT)

Model Number : MF-210 Serial Number : N/A

Manufacturer : Shenzhen Kingsun Enterprises Co., Ltd.

5.3. Operating Condition of EUT

- 5.3.1. Setup the EUT and simulator as shown as Section 4.1.
- 5.3.2. Turn on the power of all equipment.

Let the EUT work in TX modes [Connect EUT audio cable to iPod headphone jack and iPod playing typical audio signal(music song) with maximum audio level] measure it.

Note: The EUT is connected to iPod by the base interface of iPod. The input signal of EUT is controlled by iPod. so the volume control of iPod was set to maximum during the test. It means that the test was performed with the maximum audio input.

5.4. Test Procedure

- 5.4.1. The EUT was placed on a turn table which is 0.8m above ground plane.
- 5.4.2. Set EUT as normal operation. Playing MP3.(the volume control of iPod was set to maximum.)
- 5.4.3. Set EMI test receiver Center Frequency = fundamental frequency, RBW, VBW= 10kHz, Span=300kHz.
- 5.4.4. Set EMI test receiver Max hold. Mark peak, -26dB.

5.5.Test Result

The EUT does meet the FCC requirement.

Input signal: play typical audio signal(music song)

FM 88.4MHz

-26dB bandwidth = 157.8kHz

Reviewer: Seem

6. TUNING RANGE

6.1. The Requirement For Section 15.239

88-108MHz

6.2.EUT Configuration on Measurement

The following equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

6.2.1. Wireless Headphone (EUT)

Model Number : MF-210 Serial Number : N/A

Manufacturer : Shenzhen Kingsun Enterprises Co., Ltd.

6.3. Operating Condition of EUT

- 6.3.1. Setup the EUT and simulator as shown as Section 4.1.
- 6.3.2. Turn on the power of all equipment.

Let the EUT work in TX modes

6.4. Test Procedure

- 6.4.1. The EUT was placed on a turn table which is 0.8m above ground plane.
- 6.4.2. Set the EUT working on the working frequency.
- 6.4.3. Set EMI test receiver center frequency = working frequency, RBW, VBW= 10kHz, Span=300kHz.
- 6.4.4. Measuring the working frequency.
- 6.4.5. The working frequency should be inside 88-108MHz.

6.5.Test Result

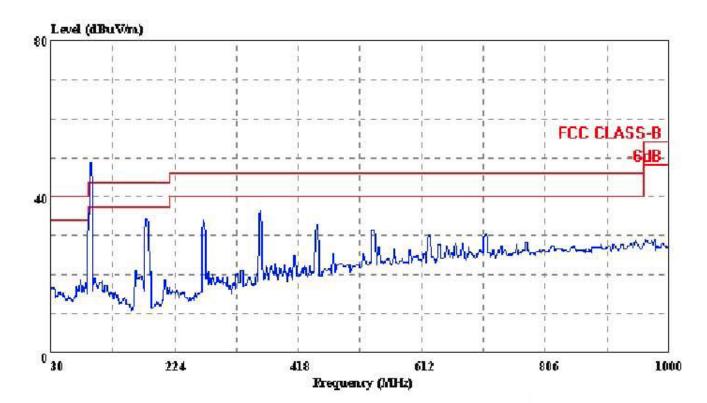
The EUT does meet the FCC requirement.

Working Frequency= 88.4018MHz

The working frequency can not to be displayed and adjusted on EUT. The EUT just one working frequency.

Reviewer:	Sount:	

APPENDIX I (Test Curves)



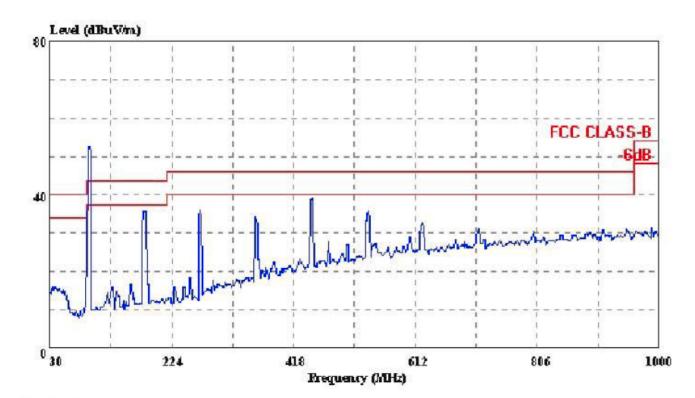
Trace: Ref Trace:

Condition: FCC CLASS-B 3m ATC VULB9163(NEW) HORIZONTAL

eut : WIRELESS HEADPHONE M/N:MF-210

power : DC 3.0V

memo : TX
manuf : KINGSUN
sample no.: 070133



Trace: Ref Trace:

Condition: FCC CLASS-B 3m ATC VULB9163(NEW) VERTICAL

eut : WIRELESS HEADPHONE M/N:MF-210

power : DC 3.0V memo : TX

manuf : KINGSUN sample no.: 070133

