

FCC 47 CFR PART 15 SUBPART C TEST REPORT

For

Applicant: ShenZhen QingHuaNanGuang Electronics Co., Ltd

Address: 4F 8# Fanshen Dis. Yangguang industrial Park, Xili

Town, Shenzhen, China

Product Name: Wireless FM Modulator

Model Name: WFM-08

Brand Name: N/A

FCC ID: XPS-WFM-08

Report No.: SZSTS090817F1

Date of Issue: September 7, 2009

Issued by: Shenzhen Super Test Service Technology Co., Ltd.

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TABLE OF CONTENTS

| 1. VERIFICATION OF CONFORMITY | 3 |
|--|----|
| 2. GENERAL INFORMATION | 4 |
| 2.1 Product Information | 4 |
| 2.2 Objective | 5 |
| 2.3 Test Standards and Results | 5 |
| 2.4 Environmental Conditions | 5 |
| 3. TEST FACILITY | 6 |
| 4. TEST EQUIPMENT LIST | 7 |
| 5. 47 CFR Part 15C Requirements | 8 |
| 5.1 26dB Bandwidth | 8 |
| 5.1.1 Definition | 8 |
| 5.1.2 Test Description | 8 |
| 5.1.3 Test Result | 8 |
| 5.2 Frequency Range | 11 |
| 5.2.1 Definition | 11 |
| 5.2.2 Test Description | 11 |
| 5.2.3 Test Result | 11 |
| 5.3.1 Definition | 12 |
| 5.3.2 Test Configuration | 13 |
| 5.3.3 Test Description | 14 |
| 5.3.4 Test Result | 14 |
| 5.4 Conducted Emission | 17 |
| 5.4. 1 Block Diagram of Test Setup | 17 |
| 5.4. 2 Preliminary Procedure of Line Conducted Emission Test | 18 |
| 5.4.3 Final Procedure Of Line Conducted Emission Test | 18 |
| 5.4.4 Test Result of Line Conducted Emission Test | 19 |
| 5.5 Antenna Requirement | 20 |
| 5.5.1 Definition | 20 |
| 5.5.2 Evaluation Procedure | 20 |
| 5.5.3 Evaluation Criteria | 20 |
| 5.5.4 Evaluation Results | 20 |

1. VERIFICATION OF CONFORMITY

Equipment Under Test: Wireless FM Modulator

Brand Name: N/A

Model Number: WFM-08

FCC ID: XPS-WFM-08

Applicant: ShenZhen QingHuaNanGuang Electronics Co., Ltd

4F 8# Fanshen Dis. Yangguang industrial Park, Xili Town, Shenzhen, China

Manufacturer: ShenZhen QingHuaNanGuang Electronics Co., Ltd

4F 8# Fanshen Dis. Yangguang industrial Park, Xili Town, Shenzhen, China

Technical Standards: 47 CFR Part 15 Subpart C

File Number: SZSTS090817F1

Date of test: August 27,2009 –September 6, 2009

Deviation:NoneCondition of Test Sample:NormalTest Result:PASS

The above equipment was tested by Shenzhen Super Test Service Technology Co., Ltd. for compliance with the requirements set forth in FCC rules and the Technical Standards mentioned above. This said equipment in the configuration described in this report shows the maximum emission levels emanating from equipment and the level of the immunity endurance of the equipment are within the compliance requirements.

The test results of this report relate only to the tested sample identified in this report.

Tested by (+ signature):

Petter Ping

September 7, 2009

Review by (+ signature):

July Wen

September

Approved by (+ signature):

Terry Yang September 7, 2009

2. GENERAL INFORMATION

2.1 Product Information

| EUT- Bluetooth headset | | | | | |
|------------------------------------|------------------------------|--|--|--|--|
| Description: Wireless FM Modulator | | | | | |
| Model Name: | WFM-08 | | | | |
| Series Number: | N/A | | | | |
| Model Difference description: | N/A | | | | |
| Power Supply: | DC 5.0V by Battery or charge | | | | |
| Frequency Range: | 88.1MHz – 107.9MHz | | | | |
| Channel Number: | 199 | | | | |
| Channel Spacing: | 100 KHz | | | | |
| Antenna Gain: | 1.0 dBi | | | | |
| Modulation Technique: | FM | | | | |
| Temperature Range: | -10°C ~ +55°C | | | | |

NOTE:

1. Please refer to Appendix I for the photographs of the EUT. For a more detailed features description about the EUT, please refer to User's Manual.

2.2 Objective

The objective of the report is to perform tests according to 47 CFR Part 15 Subpart C for the EUT FCC ID Certification:

| No. | Identity | Document Title |
|-----|-------------------------------------|-------------------------|
| 1 | 47 CFR Part 15 (10-1-05 Edition) | Radio Frequency Devices |

2.3 Test Standards and Results

Test items and the results are as bellow:

| No. | Section | Description | Result | Date of Test |
|-----|----------------------------|---------------------|----------------|--------------|
| 1 | 15.239 | 26dB Bandwidth | PASS | 2009-9-2 |
| 2 | 15.239 | Frequency Range | PASS | 2009-9-2 |
| 3 | 15.239 15.209 15.205 | Radiated Emission | PASS | 2009-9-2 |
| 4 | 15.239 | Conducted Emission | Not Applicable | 2009-9-2 |
| 5 | 15.203 | Antenna Requirement | PASS | 2009-9-2 |

Note: 1. The test result judgment is decided by the limit of measurement standard

2. The information of measurement uncertainty is available upon the customer's request.

2.4 Environmental Conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature: 15-35°CHumidity: 30-60 %

- Atmospheric pressure: 86-106 kPa

3. TEST FACILITY

Test Site: Most Technology Service Co., Itd

Location: Add: No.5, Nangshan 2nd Rd., North Hi-Tech Industrial park , Nanshan

Shenzhen, Guangdong, China

Description: There is one 3m semi-anechoic an area test sites and two line conducted labs for final

test. The Open Area Test Sites and the Line Conducted labs are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4 and CISPR 16

requirements.

The FCC Registration Number is 490827.

Site Filing: The site description is on file with the Federal Communications

Commission, 7435 Oakland Mills Road, Columbia, MD 21046.

Instrument Tolerance: All measuring equipment is in accord with ANSI C63.4 and CISPR 16 requirements

that meet industry regulatory agency and accreditation agency requirement.

Ground Plane: Two conductive reference ground planes were used during the Line Conducted

Emission, one in vertical and the other in horizontal. The dimensions of these ground planes are as below. The vertical ground plane was placed distancing 40 cm to the rear of the wooden test table on where the EUT and the support equipment were placed during test. The horizontal ground plane projected 50 cm beyond the footprint of the EUT system and distanced 80 cm to the wooden test table. For Radiated Emission Test, one horizontal conductive ground plane extended at least 1m beyond the periphery of the EUT and the largest measuring antenna, and covered the entire area between the EUT and the antenna. It has no holes or gaps having longitudinal dimensions larger than one-tenth of a wavelength at the highest frequency of

measurement up to 1GHz.

4. TEST EQUIPMENT LIST

Instrumentation: The following list contains equipment used at Most for testing. The equipment conforms to the CISPR 16-1 / ANSI C63.2 Specifications for Electromagnetic Interference and Field Strength Instrumentation from 10 kHz to 1.0 GHz or above.

| No. | Equipment | Manufacturer | Model No. | S/N | Calculator due date |
|-----|---|-------------------|-------------------|-------------|---------------------|
| 1 | Test Receiver | Rohde & Schwarz | ESCI | 100492 | 2010/03/14 |
| 2 | Spectrum Analyzer | Agilent | E7405A US442 | | 2010/03/14 |
| 3 | L.I.S.N. | Rohde & Schwarz | ENV216 | 100093 | 2010/03/14 |
| 4 | Coaxial Switch | Anritsu Corp | MP59B | 6200283933 | 2010/03/14 |
| 5 | Terminator | Hubersuhner | 50Ω | No.1 | 2010/03/14 |
| 6 | RF Cable | SchwarzBeck | N/A | No.1 | 2010/03/14 |
| 7 | Test Receiver | Rohde & Schwarz | ESPI | 101202 | 2010/03/14 |
| 8 | Bilog Antenna | Sunol | JB3 | A121206 | 2010/03/14 |
| 9 | Horn Antenna | TRC | N/A | N/A | 2010/03/14 |
| 10 | Cable | Resenberger | N/A | NO.1 | 2010/03/14 |
| 11 | Cable | SchwarzBeck | N/A | NO.2 | 2010/03/14 |
| 12 | Cable | SchwarzBeck | N/A | NO.3 | 2010/03/14 |
| 13 | DC Power Filter | DuoJi | DL2×30B | N/A | 2010/03/14 |
| 14 | Single Phase Power Line Filter | DuoJi | FNF 202B30 | N/A | 2010/03/14 |
| 15 | 3 Phase Power Line Filter | DuoJi | FNF 402B30 | N/A | 2010/03/14 |
| 16 | Test Receiver | Rohde & Schwarz | ESCI | 100492 | 2010/03/14 |
| 17 | Absorbing Clamp | Luthi | MDS21 | 3635 | 2010/03/14 |
| 18 | Coaxial Switch | Anritsu Corp | MP59B | 6200283933 | 2010/03/14 |
| 19 | AC Power Source | Kikusui | AC40MA | LM003232 | 2010/03/14 |
| 20 | Test Analyzer | Kikusui | KHA1000 | LM003720 | 2010/03/14 |
| 21 | Line Impendence Network | Kikusui | LIN40MA- PCR-L | LM002352 | 2010/03/14 |
| 22 | ESD Tester | Kikusui | KES4021 | LM003537 | 2010/03/14 |
| 23 | EMCPRO System | EM Test | UCS-500-M4 | V0648102026 | 2010/03/14 |
| 24 | Signal Generator | IFR | 2032 | 203002/100 | 2010/03/14 |
| 25 | Amplifier | A&R | 150W1000 | 301584 | 2010/03/14 |
| 26 | CDN | FCC | FCC-801-M2-25 | 47 | 2010/03/14 |
| 27 | CDN | FCC | FCC-801-M3-25 | 107 | 2010/03/14 |
| 28 | EM Injection Clamp | FCC | F-203I-23mm | 403 | 2010/03/14 |
| 29 | RF Cable | MIYAZAKI | N/A | No.1/No.2 | 2010/03/14 |
| 30 | Universal Radio Communication Tester | ROHDE&SCHWARZ | CMU200 | 0304789 | 2010/03/14 |
| 31 | Telecommunication Antenna | European Antennas | PSA 75301R/170 | 0304213 | 2010/03/14 |

NOTE: Equipments listed above have been calibrated and are in the period of validation.

5. 47 CFR Part 15 C Requirements

5.1 26dB Bandwidth

5.1.1 Definition

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

5.1.2 Test Description

The EUT was placed on a non-conductive table 0.8 meters above the floor. The table was rotated to an angle which presented the highest signal level. The occupied bandwidth was based on a 26 dB criteria (26 dB down either side of the emission from the peak emission). A drawing showing the test setup is given as Figure 1.

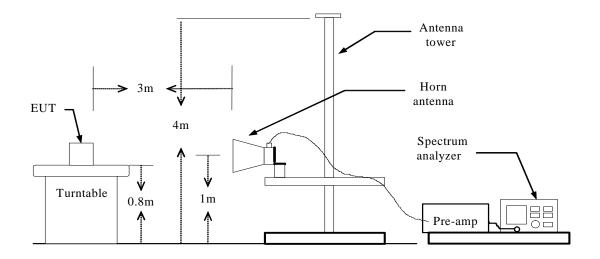


Figure 1: Radiated Emission Test Setup

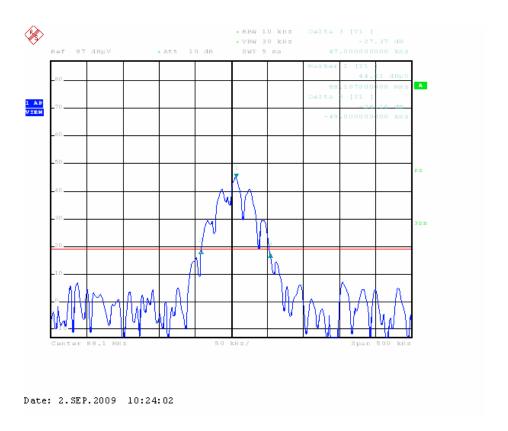
5.1.3 Test Result

The maximum occupied bandwidth for the fundamental frequency 107.9 MHz is 98.0 kHz. This occupied bandwidth complies with the FCC requirement.

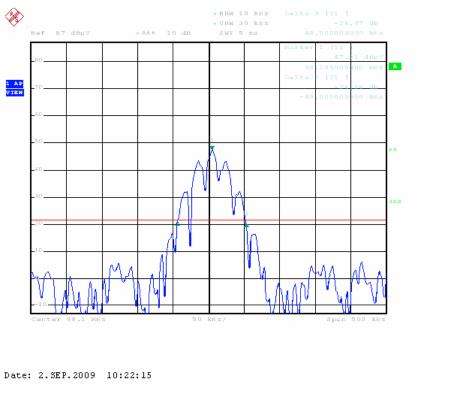
The occupied bandwidth test data is included in Plot A- Plot C.

FCC ID: XPS-WFM-08

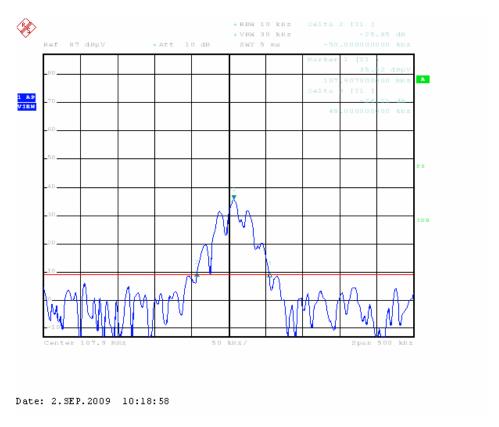
Test Plot:



(Plot A: Channel Low)



(Plot B: Channel Middle)



(Plot C: Channel High)

5.2 Frequency Range

5.2.1 Definition

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

5.2.2 Test Description

The EUT was placed on a non-conductive table 0.8 meters above the floor. The table was rotated to an angle which presented the highest signal level. The occupied bandwidth was based on a 26 dB criteria (26 dB down either side of the emission from the peak emission). A drawing showing the test setup is given as Figure 1.

5.2.3 Test Result

The operation frequency band is form 88.1 MHz to 107.9 MHz.

This frequency range complies with the FCC requirement.

The frequency range test plot is included in Plot A- Plot C

5.3 Radiated Emission

5.3.1 Definition

The field strength of any emission within this band (section 15.239, frequency between 88 MHz –108 MHz) shall not exceed 250 micro volts /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.

1. The field strength of any emissions which appear outside of this band shall not exceed the general radiated emission limits in section 15.209(Intentional Radiators general limit), as below.

| Frequency (MHz) | Field Strength (μV/m) | Measurement Distance (m) |
|-----------------|-----------------------|--------------------------|
| 1.705 - 30.0 | 30 | 30 |
| 30 - 88 | 100 | 3 |
| 88 - 216 | 150 | 3 |
| 216 - 960 | 200 | 3 |
| Above 960 | 500 | 3 |

Remark: Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

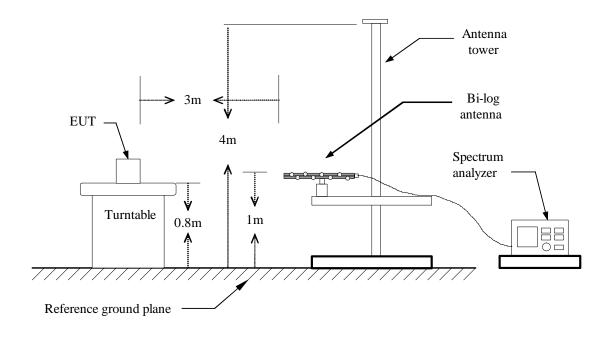
2. In the above emission table, the tighter limit applies at the band edges.

| Frequency (Hz) | Field Strength (µV/m at 3-meter) | Test Distance (m) | Field Strength (dBµV/m at 3-meter) |
|----------------|----------------------------------|----------------------|---------------------------------------|
| 1.705-30 | 30 | 3 | 69.54 |
| 30-88 | 100 | 3 | 40 |
| 88-216 | 150 | 3 | 43.5 |
| 216-960 | 200 | 3 | 46 |
| Above 960 | 500 | 3 | 54 |
| Fundamental | 250 | 3 | 48 |

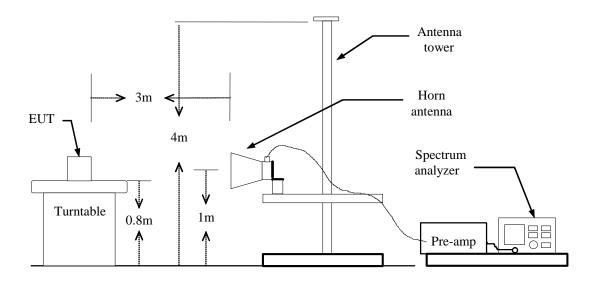
5.3.2 Test Configuration

Test Setup:

Blow 1GHz:



Above 1GHz:



5.3.3 Test Description

- 1. The EUT is placed on a turntable, which is 0.8m above ground plane.
- 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
- 4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 6. Set the spectrum analyzer in the following setting as:

Below 1GHz: RBW=100 kHz / VBW=300 kHz / Sweep=AUTO

Above 1GHz:(a) PEAK: RBW=VBW=1MHz / Sweep=AUTO

(b) AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=AUTO

7. Repeat above procedures until the measurements for all frequencies are complete.

5.3.4 Test Result

Operation Mode: CH Low Test Date: September 2, 2009

Temperature:20°CTested by:Petter PingHumidity:70 % RHPolarity:Ver. / Hor.

| Freq. (MHz) | Ant.Pol. H/V | Detector Mode (PK/QP) | Reading (dBuV) | Factor (dB) | Actual FS (dBuV/m) | Limit 3m (dBuV/m) | Safe Margin (dB) |
|----------------|-----------------|-----------------------------|-------------------|----------------|-----------------------|----------------------|---------------------|
| 88.104 | V | Peak | 34.56 | 5.87 | 40.43 | 48.00 | -7.57 |
| | | | | | | | |
| 248.15 | V | Peak | 23.45 | 11.75 | 35.20 | 46.00 | -10.80 |
| 560.22 | V | Peak | 19.88 | 22.65 | 42.53 | 46.00 | -3.47 |
| | V | Peak | | | | | |
| 88.104 | Н | Peak | 38.11 | 5.87 | 43.98 | 48.00 | -4.02 |
| | | | _ | | | - | |
| 140.32 | Н | Peak | 26.92 | 10.51 | 37.43 | 43.50 | -6.07 |
| 780.57 | Н | Peak | 15.07 | 28.12 | 43.19 | 46.00 | -2.81 |
| | Н | Peak | | | | | |
| | Н | Peak | | | | | |

Notes:

- 1. Measuring frequencies from 30 MHz to the 1GHz.
- 2. Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak detector mode.
- 3. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4. The IF bandwidth of SPA between 30MHz to 1GHz was 100 kHz.

Operation Mode: CH Middle Test Date: September 2, 2009

Temperature:20°CTested by:Petter PingHumidity:70 % RHPolarity:Ver. / Hor.

| Freq. (MHz) | Ant.Pol. H/V | Detector Mode (PK/QP) | Reading (dBuV) | Factor (dB) | Actual FS (dBuV/m) | Limit 3m (dBuV/m) | Safe Margin (dB) |
|----------------|-----------------|-----------------------------|---------------------------------------|----------------|-----------------------|----------------------|---------------------|
| 98.109 | V | Peak | 34.22 | 7.72 | 41.94 | 48.00 | -6.06 |
| | | | | | | | |
| 132.79 | V | Peak | 21.93 | 9.77 | 31.70 | 43.50 | -11.80 |
| 312.47 | V | Peak | 27.15 | 11.96 | 39.11 | 46.00 | -6.89 |
| | V | Peak | | | | | |
| 98.109 | Н | Peak | 35.51 | 7.72 | 43.23 | 48.00 | -4.77 |
| | | | | | | | |
| 132.19 | Н | Peak | 25.78 | 9.74 | 35.52 | 43.50 | -7.98 |
| 208.68 | Н | Peak | 30.44 | 9.69 | 40.13 | 43.50 | -3.37 |
| | Н | Peak | | | | | |
| | Н | Peak | · · · · · · · · · · · · · · · · · · · | | | | |

Notes:

- 1. Measuring frequencies from 30 MHz to the 1GHz.
- 2. Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak detector mode.
- 3. Data of measurement within this frequency range shown "--- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4. The IF bandwidth of SPA between 30MHz to 1GHz was 100 kHz.

Operation Mode: CH High Test Date: September 2, 2009

Temperature:20°CTested by:Petter PingHumidity:70 % RHPolarity:Ver. / Hor.

| Freq. (MHz) | Ant.Pol. H/V | Detector Mode (PK/QP) | Reading (dBuV) | Factor (Db) | Actual FS (dBuV/m) | Limit 3m (dBuV/m) | Safe Margin (Db) |
|----------------|-----------------|-----------------------------|-------------------|----------------|-----------------------|----------------------|---------------------|
| 107.910 | V | Peak | 33.92 | 7.38 | 41.30 | 48.00 | -6.70 |
| | | | | | | | |
| 133.19 | V | Peak | 22.98 | 9.77 | 32.75 | 43.50 | -10.75 |
| 751.68 | V | Peak | 21.14 | 19.69 | 40.83 | 46.00 | -5.17 |
| 107.910 | Н | Peak | 35.49 | 7.38 | 42.87 | 48.00 | -5.13 |
| | _ | | | _ | | | |
| 110.79 | Η | Peak | 21.93 | 9.77 | 31.70 | 43.50 | -11.80 |
| 272.47 | Н | Peak | 26.55 | 10.06 | 36.61 | 46.00 | -9.39 |
| 348.45 | Н | Peak | 26.11 | 11.91 | 38.02 | 46.00 | -7.98 |

Notes:

- 1. Measuring frequencies from 30 MHz to the 1GHz.
- 2. Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak detector mode.
- 3. Data of measurement within this frequency range shown "--- " in the table above means the reading of emissions are attenuated more than 20Db below the permissible limits or the field strength is too small to be measured.
- 4. The IF bandwidth of SPA between 30MHz to 1GHz was 100 kHz.

5.4 Conducted Emission (Not Applicable)

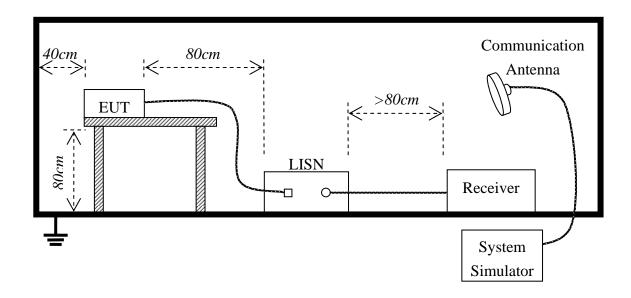
5.4. 1 Definition

| Fraguenov | Maximum RF Line Voltage | | | |
|---------------|-------------------------|----------------|--|--|
| Frequency | Q.P.(dBuV) | Average(dBuV) | | |
| 150kHz-500kHz | 66-56 | 56-46 | | |
| 500kHz-5MHz | 56 | 46 | | |
| 5MHz-30MHz | 60 | 50 | | |

^{**}Note: 1. the lower limit shall apply at the transition frequency.

2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz

5.4. 1 Block Diagram of Test Setup



5.4. 2 Preliminary Procedure of Line Conducted Emission Test

The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per FCC Part 15 (see Test Facility for the dimensions of the ground plane used). When the EUT is floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.

- 2) Support equipment, if needed, was placed as per FCC Part 15.
- 3) All I/O cables were positioned to simulate typical actual usage as per FCC Part 15.
- 4) The EUT received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- 5) All support equipments received power from a second LISN supplying power of AC 120V/60Hz, if any.
- 6) The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7) Analyzer / Receiver scanned from 150 kHz to 30 MHz for emissions in each of the test modes.
- 8) During the above scans, the emissions were maximized by cable manipulation.
- 9) The following test mode(s) were scanned during the preliminary test:

| Preliminary Conducted Emission Test | | | | | | | | |
|---|------|------------|-------|------------|--|--|--|--|
| Frequency Range Investigated 150KHz TO 30 MHz | | | | | | | | |
| Mode of operation | Date | Report No. | Data# | Worst Mode | | | | |
| N/A | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

5.4.3 Final Procedure of Line Conducted Emission Test

EUT and support equipment was set up on the test bench as per step 9 of the preliminary test.

A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less –2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.

The test data of the worst case condition(s) was reported on the Summary Data page.

5.4.4 Test Result of Line Conducted Emission Test

Not Applicable

5.5 Antenna Requirement

5.5.1 Definition

An analysis of the WFM-08 was performed to determine compliance with FCC Section 15.203. This section requires specific handling and control of antennas used for devices subject to regulations.

5.5.2 Evaluation Procedure

The structure and application of the WFM-08 was analyzed with respect to the rules. The antenna is an internal antenna, and is not accessible to the user. An auxiliary antenna port is not present.

5.5.3 Evaluation Criteria

Section 15.203 of the rules states that the subject device must meet at least one of the following criteria:

- (a) Antenna must be permanently attached to the unit.
- (b) Antenna must use a unique type of connector to attach to the EUT.
- (c) Unit must be professionally installed. Installer shall be responsible for verifying that the correct antenna is employed with the unit.

5.5.4 Evaluation Results

The WFM-08 meets the criteria of this rule by virtue of having an internal antenna inaccessible to the user. The EUT is therefore compliant.