# FCC CERTIFICATION On Behalf of Lifestyle Entertainment Group, Inc.

FM Transmitter Model No.: FM2400

FCC ID: TVMFM69TX

Prepared for : Lifestyle Entertainment Group, Inc.

Address : 2918 Cantos De Los Ciervos

San Clemente, California 92673 USA

Prepared by : ACCURATE TECHNOLOGY CO. LTD

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

Science & Industry Park, Nanshan, Shenzhen, Guangdong

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Report Number : ATE20052344

Date of Test : December 22, 2005

Date of Report : December 28, 2005

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# **Test Report Certification**

Applicant : Lifestyle Entertainment Group, Inc.

Manufacturer : Dongguan City Chanping Taixing Hardware Craft Co., Ltd.

**EUT Description**: FM Transmitter

(A) MODEL NO.: FM2400

(B) SERIAL NO.: N/A

(C) POWER SUPPLY: DC 9V (4×AA Batteries Or AC-DC Adaptor)

Measurement Procedure Used:

FCC Rules and Regulations Part 15 Subpart C Section 15.207, 15.239: 2004 & ANSI C63.4: 2003

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:                 | December 22, 2005 |  |
|-------------------------------|-------------------|--|
| Prepared by :                 | sky Long          |  |
|                               | (Engineer)        |  |
| Reviewer:                     | Searle)           |  |
|                               | (Quality Manager) |  |
| Approved & Authorized Signer: | Martinh           |  |
|                               | (Manager)         |  |

#### 1. GENERAL INFORMATION

#### 1.1.Description of Device (EUT)

EUT : FM Transmitter

Model Number : FM2400

Power Supply : DC 9V Power by  $4 \times AA$  Batteries Or AC-DC Adaptor

AC-DC Adaptor: Model: AU28-090-008T

Input: AC120V/60Hz Output: DC 9V, 80mA

Listed by UL/CUL: E144687 2H63

Channel : Channel A: 107.7MHz, Channel B: 107.3MHz,

Channel C: 106.9MHz,

Applicant : Lifestyle Entertainment Group, Inc.

Address : 2918 Cantos De Los Ciervos

San Clemente, California 92673 USA

Manufacturer : Dongguan City Chanping Taixing Hardware Craft Co.,Ltd.
Address : Baihuali Industry District, Chanping Town, Dongguan city

Guangdong Province, China

Date of sample received: December 17, 2005
Date of Test: December 22, 2005

#### 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 Uncertainty =  $\pm 2.66$ dB

Radiated Emission Uncertainty =  $\pm 4.26$ dB

# 2. MEASURING DEVICE AND TEST EQUIPMENT

**Table 1: List of Test and Measurement Equipment** 

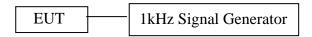
| Kind of equipment | Manufacturer  | Туре     | S/N        | Calibrated until |
|-------------------|---------------|----------|------------|------------------|
| EMI Test Receiver | Rohde&Schwarz | ESCS30   | 100307     | 12.16.2006       |
| EMI Test Receiver | Rohde&Schwarz | ESI26    | 838786/013 | 12.16.2006       |
| Bilog Antenna     | Chase         | CBL6112B | 2591       | 12.16.2006       |
| Horn Antenna      | Rohde&Schwarz | HF906    | 100013     | 12.16.2006       |
| Spectrum Analyzer | Anritsu       | MS2651B  | 6200238856 | 12.16.2006       |
| Pre-Amplifier     | Agilent       | 8447D    | 2944A10619 | 12.16.2006       |
| L.I.S.N.          | Rohde&Schwarz | ESH3-Z5  | 100305     | 12.16.2006       |
| L.I.S.N.          | Rohde&Schwarz | ESH3-Z5  | 100310     | 12.16.2006       |
| Signal Generator  | GW            | GAG-810  | 0913317    | 12.16.2006       |

# 3. CONDUCTED EMISSION FOR FCC PART 15 SECTION

# 15.207(A)

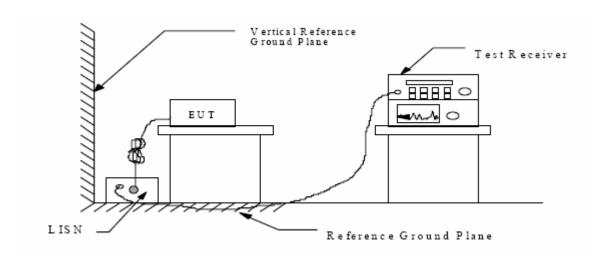
#### 3.1.Block Diagram of Test Setup

3.1.1.Block diagram of connection between the EUT and simulators



(EUT: FM Transmitter)

#### 3.1.2. Shielding Room Test Setup Diagram



(EUT: FM Transmitter)

#### 3.2. The Emission Limit For Section 15.207(a)

6.2.1 Radiation Emission Measurement Limits According to Section 15.207(a)

| Frequency  | Conducted Limit (dBµV) |           |  |  |
|------------|------------------------|-----------|--|--|
| (MHz)      | Quasi-peak             | Average   |  |  |
| 0.15 - 0.5 | 66 to 56*              | 56 to 46* |  |  |
| 0.5 - 5    | 56                     | 46        |  |  |
| 5 - 30     | 60                     | 50        |  |  |

<sup>\*</sup> Decreases with the logarithm of the frequency.

#### 3.3.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.

#### 3.3.1. FM Transmitter (EUT)

Model Number : FM2400 Serial Number : N/A

Manufacturer : Dongguan City Chanping Taixing Hardware Craft

Co.,Ltd

#### 3.4. Operating Condition of EUT

3.4.1. Setup the EUT and simulator as shown as Section 6.1.

3.4.2.Turn on the power of all equipment.

3.4.3. Let the EUT work in TX modes (On with 1kHz signal) measure it.

#### 3.5. Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 500hm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC lines are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.4: 2003 on Conducted Emission Measurement.

The bandwidth of test receiver (R & S ESCS30) is set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

All the scanning waveforms are attached in Appendix I.

#### 3.6. Power Line Conducted Emission Measurement Results

#### PASS.

The frequency range from 150kHz to 30MHz is checked.

| Date of Test: | December 22, 2005 | Temperature:   | 22°C         |
|---------------|-------------------|----------------|--------------|
| EUT:          | FM Transmitter    | Humidity:      | 50%          |
| Model No.:    | FM2400            | Power Supply:  | AC 120V/60Hz |
| Test Mode:    | TX                | Test Engineer: | Andy         |

| Test Line | Frequency<br>MHz | Emission L<br>QP | evel(dBµV)<br>AV | Limits(<br>QP | (dBµV)<br>AV | Margin<br>QP | (dBµV)<br>AV |
|-----------|------------------|------------------|------------------|---------------|--------------|--------------|--------------|
| Va        | -                | -                | -                | -             | -            | -            | -            |
| Vb        | -                | -                | -                | -             | -            | -            | -            |

Remark "- " means that the emission level is too low to be measured.

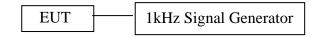
The spectral diagrams in appendix I display the measurement of un-weighted peak values.

| Reviewer: | Seem = |  |
|-----------|--------|--|
|-----------|--------|--|

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

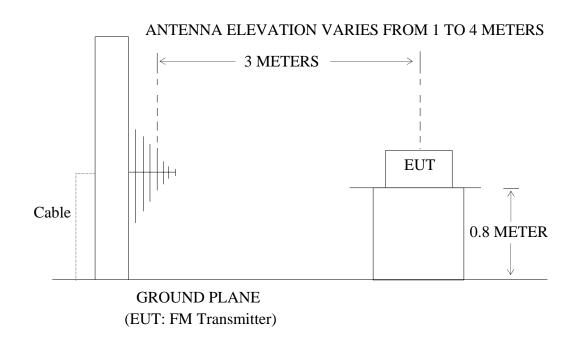
### 4.1.Block Diagram of Test Setup

4.1.1.Block diagram of connection between the EUT and simulators



(EUT: FM Transmitter)

4.1.2. Anechoic Chamber Test Setup Diagram



# 4.2. 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

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

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

#### 4.3. 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.

#### 4.3.1.FM Transmitter(EUT)

Model Number : FM2400 Serial Number : N/A

Manufacturer : Dongguan City Chanping Taixing Hardware Craft

Co.,Ltd

#### 4.4. Operating Condition of EUT

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

#### 4.4.2.Turn on the power of all equipment.

Let the EUT work in TX modes (On with 1kHz signal) measure it. The transmit frequency are 107.7M, 107.3M, 106.9MHz.We are select 107.7M, 106.9MHz TX frequency to transmitted.

#### 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.

The bandwidth of test receiver (R&S ESI26) is set at 120KHz in 30-1000MHz; Set at 1MHz in above 1000MHz.

The frequency range from 30MHz to 1100MHz 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.

# 4.6. The Field Strength of Radiation Emission Measurement Results **PASS.**

The frequency range 30MHz to 1100MHz is investigated.

Date of Test:December 22, 2005Temperature:22°CEUT:TransmitterHumidity:50%Model No.:FM2400Power Supply:AC 120V/60Hz

Test Mode: TX 107.7MHz Test Engineer: Andy

| Polarization | Frequency (MHz) | Reading(dBµV/m) QP | Factor<br>Corr.( dB) | Result(dBμV/m)<br>QP | Limits(dBµV/m)<br>QP | Margin(dBμV/m)<br>QP |
|--------------|-----------------|--------------------|----------------------|----------------------|----------------------|----------------------|
| Horizontal   | 215.430         | 60.1               | -23.3                | 36.8                 | 43.5                 | 6.7                  |
| Horizontal   | 323.145         | 54.7               | -18.6                | 36.1                 | 46                   | 9.9                  |
| Horizontal   | 430.860         | 53.7               | -16.1                | 37.6                 | 46                   | 8.4                  |
| Horizontal   | 538.575         | 49.0               | -14.7                | 34.3                 | 46                   | 11.7                 |
| Horizontal   | 646.290         | 46.2               | -14.0                | 32.2                 | 46                   | 13.8                 |
| Horizontal   | 754.005         | 50.6               | -12.7                | 37.9                 | 46                   | 8.1                  |
| Horizontal   | 861.720         | 52.6               | -12.1                | 40.5                 | 46                   | 5.5                  |
| Horizontal   | 969.435         | 56.0               | -11.5                | 44.5                 | 54                   | 9.5                  |
| Horizontal   | 1077.150        | 48.7               | -8.5                 | 40.2                 | 54                   | 13.8                 |
| Vertical     | 215.430         | 61.5               | -23.3                | 38.2                 | 43.5                 | 5.3                  |
| Vertical     | 323.145         | 56.6               | -18.6                | 38.0                 | 46                   | 8.0                  |
| Vertical     | 430.860         | 58.5               | -16.1                | 42.4                 | 46                   | 3.6                  |
| Vertical     | 538.575         | 47.0               | -14.7                | 32.3                 | 46                   | 13.7                 |
| Vertical     | 646.290         | 54.2               | -14.0                | 40.2                 | 46                   | 5.8                  |
| Vertical     | 754.005         | 53.2               | -12.7                | 40.5                 | 46                   | 5.5                  |
| Vertical     | 861.720         | 48.8               | -12.1                | 36.7                 | 46                   | 9.3                  |
| Vertical     | 969.435         | 48.0               | -11.5                | 36.5                 | 54                   | 17.5                 |
| Vertical     | 1077.150        | 46.3               | -8.5                 | 37.8                 | 54                   | 16.2                 |

Date of Test:December 22, 2005Temperature:22°CEUT:FM TransmitterHumidity:50%Model No.:FM2400Power Supply:AC 120V/60HzTest Mode:TX 106.9MHzTest Engineer:Andy

| Polarization | Frequency (MHz) | Reading(dBμV/m)  QP | Factor<br>Corr.( dB) | Result(dBµV/m)  QP | Limits(dBµV/m)<br>QP | Margin(dBμV/m)<br>QP |
|--------------|-----------------|---------------------|----------------------|--------------------|----------------------|----------------------|
| Horizontal   | 213.804         | 60.8                | -23.3                | 37.5               | 43.5                 | 6.0                  |
| Horizontal   | 320.706         | 55.0                | -18.6                | 36.4               | 46                   | 9.6                  |
| Horizontal   | 427.608         | 55.6                | -16.0                | 39.6               | 46                   | 6.4                  |
| Horizontal   | 534.510         | 49.1                | -14.7                | 34.4               | 46                   | 11.6                 |
| Horizontal   | 641.412         | 45.2                | -14.0                | 31.2               | 46                   | 14.8                 |
| Horizontal   | 748.314         | 53.0                | -12.8                | 40.2               | 46                   | 5.8                  |
| Horizontal   | 855.216         | 51.3                | -12.2                | 39.1               | 46                   | 6.9                  |
| Horizontal   | 962.118         | 56.5                | -11.5                | 45.0               | 54                   | 9.0                  |
| Horizontal   | 1069.020        | 45.5                | -8.2                 | 37.3               | 54                   | 16.7                 |
| Vertical     | 213.804         | 63.5                | 23.3                 | 40.2               | 43.5                 | 3.3                  |
| Vertical     | 320.706         | 56.2                | -18.6                | 37.6               | 46                   | 8.4                  |
| Vertical     | 427.608         | 58.2                | -16.0                | 42.2               | 46                   | 3.8                  |
| Vertical     | 534.510         | 46.8                | -14.7                | 32.1               | 46                   | 13.9                 |
| Vertical     | 641.412         | 56.2                | -14.0                | 42.2               | 46                   | 3.8                  |
| Vertical     | 748.314         | 55.3                | -12.8                | 42.5               | 46                   | 3.5                  |
| Vertical     | 855.216         | 46.8                | -12.2                | 34.6               | 46                   | 11.4                 |
| Vertical     | 962.118         | 44.3                | -11.5                | 32.8               | 54                   | 21.2                 |
| Vertical     | 1069.020        | 45.8                | -8.2                 | 37.6               | 54                   | 16.4                 |

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

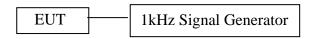
Where Corrected Factor = Antenna Factor + Cable Loss + High Pass Filter Loss - Amplifier Gain

Reviewer: Seem

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

#### 5.1.Block Diagram of Test Setup

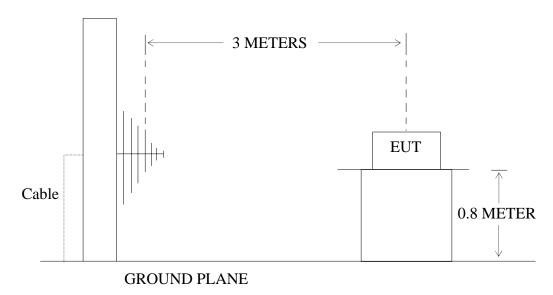
5.1.1.Block diagram of connection between the EUT and simulators



(EUT: FM Transmitter)

5.1.2. Anechoic Chamber Test Setup Diagram

#### ANTENNA ELEVATION VARIES FROM 1 TO 4 METERS



(EUT: FM Transmitter)

#### 5.2. 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.

#### 5.3.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.

#### 5.3.1.FM Transmitter(EUT)

Model Number : FM2400 Serial Number : N/A

Manufacturer : Dongguan City Chanping Taixing Hardware Craft

Co.,Ltd

#### 5.4. Operating Condition of EUT

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

5.4.2. Turn on the power of all equipment.

Let the EUT work in TX modes (On with 1kHz signal) measure it. The transmit frequency are 107.7M, 107.3M, 106.9MHz.We are select 107.7M, 106.9MHz TX frequency to transmitted.

#### 5.5.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.

#### 5.6. The Emission Measurement Result

#### PASS.

| Date of Test: | December 22, 2005 | Temperature:   | 22°C         |
|---------------|-------------------|----------------|--------------|
| EUT:          | FM Transmitter    | Humidity:      | 50%          |
| Model No.:    | FM2400            | Power Supply:  | AC 120V/60Hz |
| Test Mode:    | TX                | Test Engineer: | Andy         |

#### **Fundamental Radiated Emissions**

| Test conditions |                         | Fundamental Frequency   |  |
|-----------------|-------------------------|---|--|
|                 |                         | 107.715MHz  |  |
| Unit            | $(dB\mu V/m)/(\mu V/m)$ | $(dB\mu V/m)/(\mu V/m)$   |  |
|                 | AV                      | PEAK  |  |
| Horizontal      | 43.2/145                | 52.8/437  |  |
| Vertical        | 45.9/197                | 55.6/603  |  |
| it              | 48/250                  | 68/2500   |  |
|                 | Unit<br>Horizontal      | Unit   (dBμV/m)/ (μ V/m)   AV   Horizontal   43.2/145   Vertical   45.9/197 |  |

Note: Measurement was performed with modulated signal with average detector and peak detector.

| Test conditions         |            | Fundamental 1           | Fundamental Frequency   |  |
|-------------------------|------------|-------------------------|-------------------------|--|
|                         |            | 106.902                 | 106.902MHz              |  |
| T <sub>nom</sub> (22°C) | Unit       | $(dB\mu V/m)/(\mu V/m)$ | $(dB\mu V/m)/(\mu V/m)$ |  |
|                         |            | AV                      | PEAK                    |  |
|                         | Horizontal | 43.2/145                | 52.9/442                |  |
|                         | Vertical   | 46.0/200                | 55.7/610                |  |
| lim                     | it         | 48/250                  | 68/2500                 |  |

Note: Measurement was performed with modulated signal with average detector and peak detector.

| Reviewer: | Soun |  |
|-----------|------|--|
|           |      |  |

#### 6. OCCUPIED BANDWIDTH FOR FCC PART 15 SECTION

#### 15.239(A)

#### 6.1. 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.

#### 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.FM Transmitter(EUT)

Model Number : FM2400 Serial Number : N/A

Manufacturer : Dongguan City Chanping Taixing Hardware Craft 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 (On with 1kHz signal) measure it. The transmit frequency are 107.7M, 107.3M, 106.9MHz.We are select 107.7M, 106.9MHz TX frequency to transmitted.

#### 6.4.Test Procedure

The zero level was set without modulation. A small sample of the transmitter output was fed into the spectrum analyzer and above photo was taken. The vertical scale is set to 10dB per division; the horizontal scale is set to 20kHz per division.

#### 6.5.Test Result

The EUT does meet the FCC requirement.

Reviewer: Sewich

# APPENDIX I (Test Curves)

#### CONDUCTION EMISSION STANDARD FCC PART15B

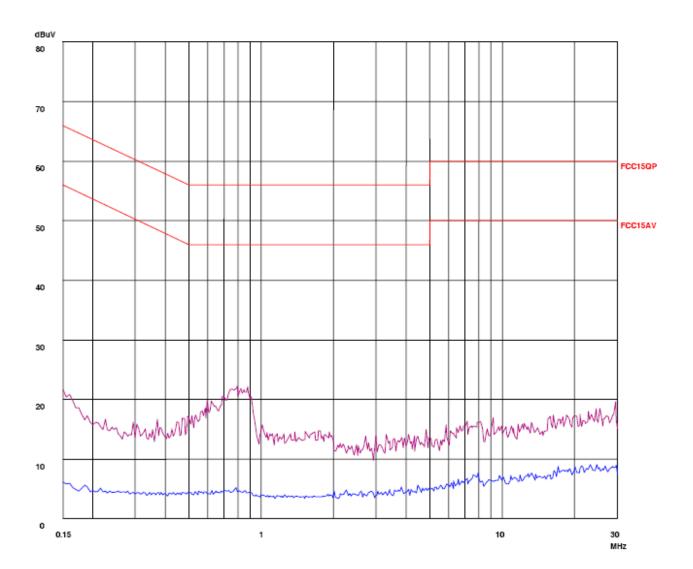
EUT: FM TRANSMITTER M/N:FM2400 Manuf: LIFESTYLE ENTERTAINMENT

 Op Cond:
 TX

 Operator:
 Andy.tan

 Test Spec:
 Va 120V/60Hz

 Comment:
 Tem22'C Humi50%



#### CONDUCTION EMISSION STANDARD FCC PART15B

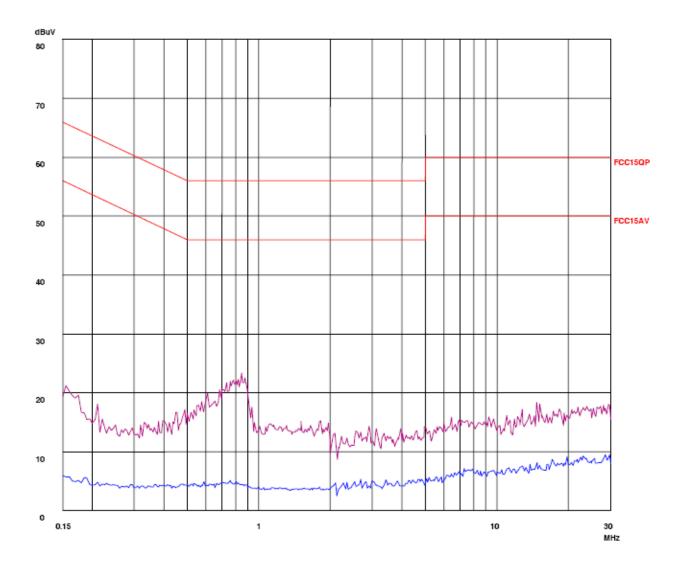
EUT: FM TRANSMITTER M/N:FM2400 Manuf: LIFESTYLE ENTERTAINMENT

 Op Cond:
 TX

 Operator:
 Andy.tan

 Test Spec:
 Vb 120V/60Hz

 Comment:
 Tem22'C Humi50%



#### FCC part15

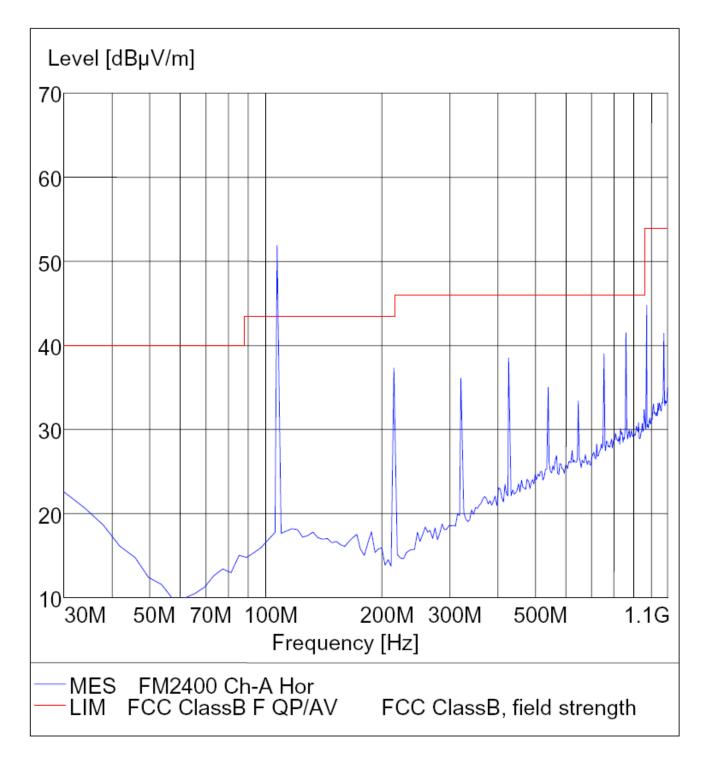
EUT: FM Transmitter M/N:FM2400

Manufacturer: Lifestyle Entertainment Group, Inc.

Operating Condition: TX 107.7MHz(Channel A)

Test Site: ATC EMC Lab. SAC Operator: Andy

Test Specification: Horizontal AC 120V/60Hz Comment:



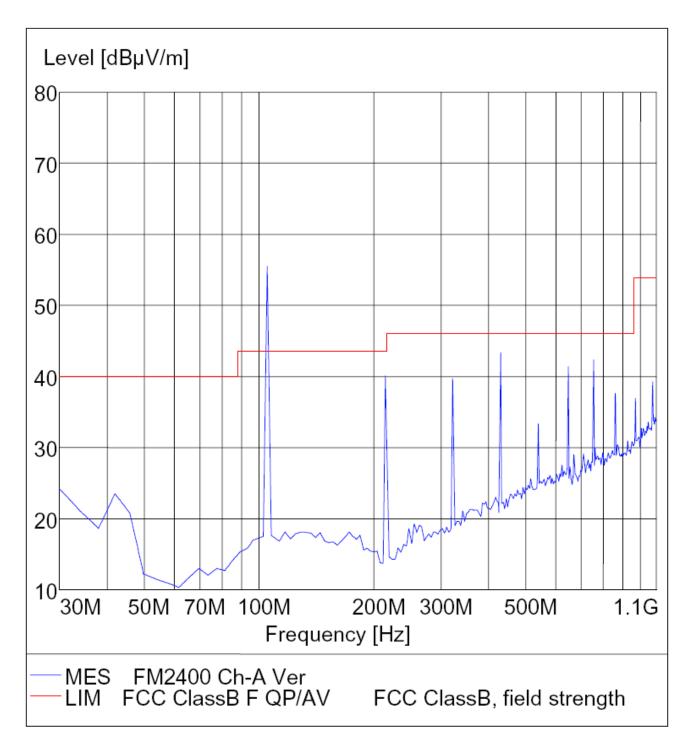
#### FCC part15

EUT: FM Transmitter  $$\rm M/N\rm{:}FM2400$$  Manufacturer: Lifestyle Entertainment Group,Inc.

Operating Condition: TX 107.7MHz(Channel A)

Test Site: ATC EMC Lab. SAC Operator: Andy

Test Specification: Vertical AC 120V/60Hz Comment:



#### FCC part15

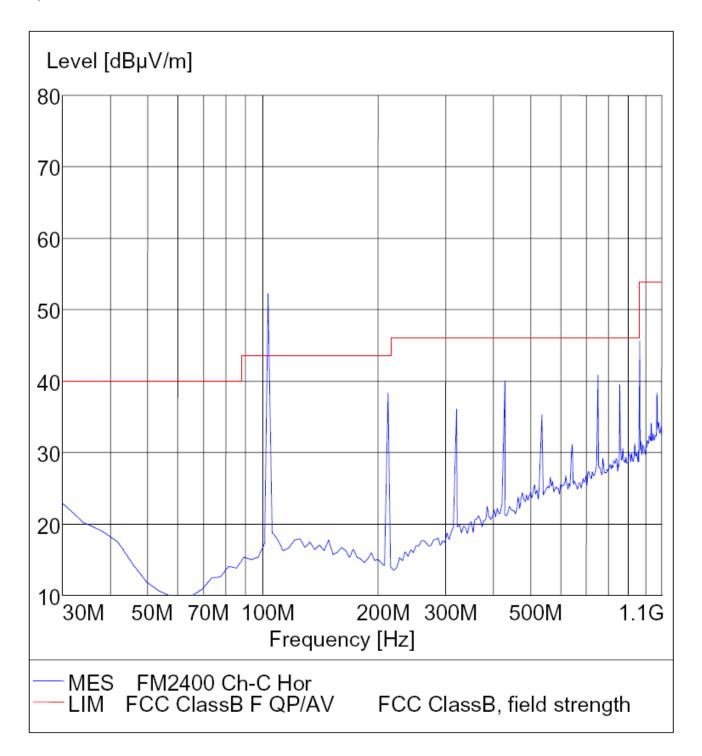
EUT: FM Transmitter M/N:FM2400

Manufacturer: Lifestyle Entertainment Group, Inc.

Operating Condition: TX 106.9MHz(Channel C)

Test Site: ATC EMC Lab. SAC Operator: Andy

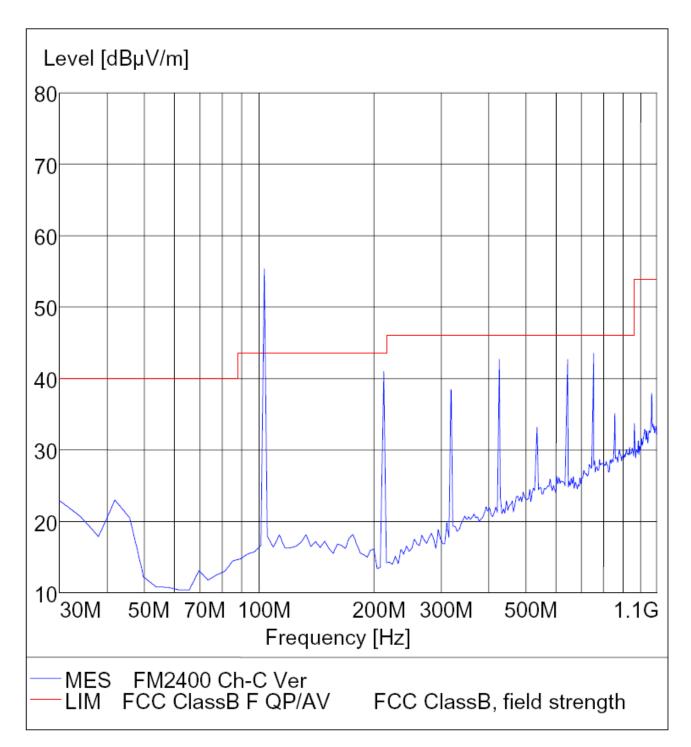
Test Specification: Horizontal Comment: AC 120V/60Hz

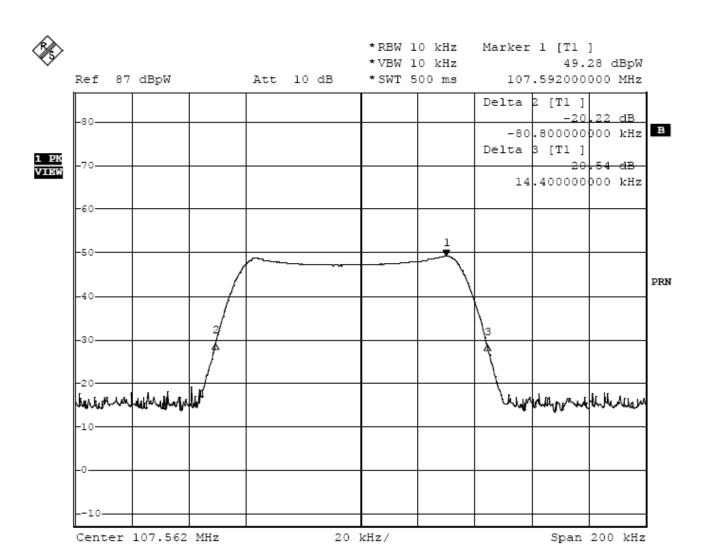


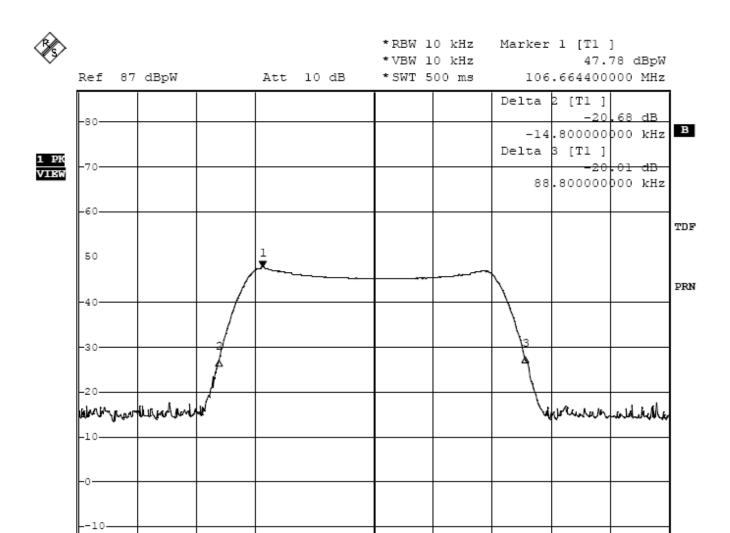
#### FCC part15

EUT: FM Transmitter M/N:FM2400 Manufacturer: Lifestyle Entertainment Group,Inc. Operating Condition: TX 106.9MHz(Channel C)

Test Site: ATC EMC Lab. SAC
Operator: Andy Test Specification: Vertical Comment: AC 120V/60Hz







20 kHz/

Center 106.702 MHz

Span 200 kHz