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FEDERAL COMMUNICATIONS COMMISSION
Registration Number: 125782
INDUSTRY CANADA
Registration Number: IC4986

FCC TEST REPORT

Under
FCC 15 Subpart C, Paragraph 15.239

Prepared For :

DesignTech International Inc.
7955 Cameron Brown Court, Springfield, VA 22153

| |
|----------------------------|
| FCC ID: ELGFMTX1 |
| EUT: FM Transmitter |
| Model: 20800 |

October 22, 2004

Report Type: Original Report

Test Engineer: Peter Lin

Test Date: September 24, 2004


Review By: _____

Apollo Liu / Manager

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1. General Information

1. 1 Notes

The test results of this report relate exclusively to the test item specified in 1.5. The KMO Lab does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item. The test report may only be reproduced or published in full. Reproduction or publication of extracts from the report requires the prior written approval of the KMO Lab.

1. 2 Testing Laboratory

Ke Mei Ou Laboratory Co., Ltd.

7A, Jiaxiangge, Jiahuixincheng, No.3027, Shennan Rd., Futian, Shenzhen, Guangdong, P.R.China.
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Internet: www.kmolab.com

Site on File with the Federal Communications Commission – United States
Registration Number: 125782
For 3 & 10 meter OATS

Site Listed with Industry Canada of Ottawa, Canada
Registration Number: IC4986
For 3 & 10 meter OATS

1. 3 Details of Applicant

Name : DesignTech International Inc.
Address : 7955 Cameron Brown Court, Springfield, VA 22153
Contact : Mr. Warren Bosch / Chief Operating Officer
Tel : 703-8662000
Fax : N/A

1. 4 Application Details

Date of Receipt of Application : September 23, 2004
Date of Receipt of Test Item : September 23, 2004
Date of Test : September 23~October 22, 2004

1. 5 Test Item

Manufacturer : Precision Enterprise Ltd.
Address : Protronic Bldg., Xiang-xi Village, Shipai Town, Dongguan, Guangdong, China
Brand Name : FM Voyager
Model No. : 20800
Description : FM Transmitter

Additional Information

Frequency : 88.1MHz, 88.3MHz, 88.5MHz, 88.7MHz, 88.9MHz, 106.7MHz, 106.9MHz, 107.1MHz, 107.3MHz, 107.5MHz, 107.7MHz, 107.9MHz
Number of Channels : 12
Antenna : Internal
Power Supply : DC12V
Operation Distance : N/A
Resolution : N/A

1. 6 Test Standards

FCC 15 Subpart C, Paragraph 15.239

Note: All radiated measurements were made in all three orthogonal planes. The values reported are the maximum values.

2. Technical Test

2. 1 Summary of Test Results

The EUT has been tested according to the following specifications:

| Standard | Test Type | Result | Notes |
|--|-------------------------------|--------|---|
| FCC Part 15, Paragraph 15.207 | Conducted Test | N/A | Owing to the DC operation of EUT, this test item is not performed. |
| FCC Part 15 Subpart C Paragraph 15.239 Limit | Field Strength of Fundamental | PASS | Minimum passing margin is -17.36 / -0.76 dB at 88.890 MHz Vertical |
| FCC Part 15, Subpart C Paragraph 15.239 Limit & Paragraph 15.209 | Radiated Test | PASS | Meets Class B Limit Minimum passing margin is -3.8 dB at 45.600 MHz Vertical |
| FCC Part 15 Subpart C Paragraph 15.239 Limit | Measured Bandwidth | PASS | Complies. |

2. 2 Antenna Requirement

A. Regulation

FCC section 15.203, 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 or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of Part 15C. The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of Sections 15.211, 15.213, 15.217, 15.219, or 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with Section 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this Part are not exceeded.

B. Result

The transmitter's antenna is on PCB layout which is a copper trace on PCB, this is permanently attached antenna and meets the requirements of this section.

3. EUT Modifications

No modification by Ke Mei Ou Laboratory Co., Ltd.

4. Conducted Power Line Test

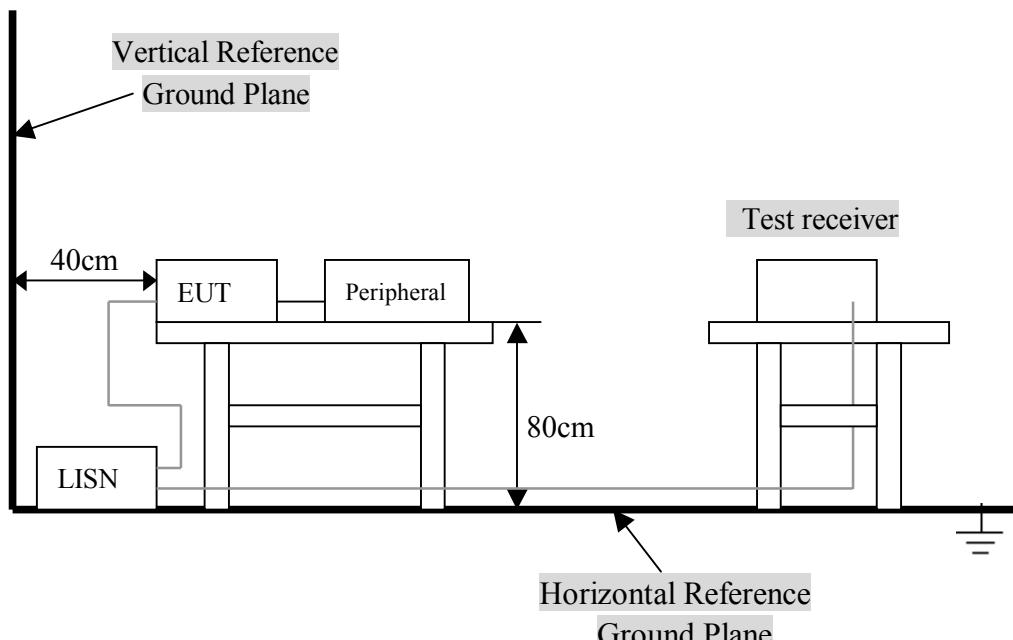
4. 1 Test Equipment

Please refer to Section 9 this report.

4. 2 Test Procedure

The EUT was tested according to ANSI C63.4 - 2001. The frequency spectrum from 0.15 MHz to 30 MHz was investigated. The LISN used was 50 ohm / 50 uHenry as specified by section 5.1 of ANSI C63.4 - 2001. cables and peripherals were moved to find the maximum emission levels for each frequency.

4. 3 Test Setup



For the actual test configuration, Please refer to the related items – Photos of Testing.

4. 4 Configuration of The EUT

The EUT was configured according to ANSI C63.4-2001. EUT is the transmitter part of a FM transmitter. According to the specifications of the manufacturer, The EUT has been tested as an independent unit together with other necessary accessories or support units.

Three channels were provided to this EUT.

| Channel | Frequency (MHz) |
|---------|-----------------|
| 1 | 88.1 |
| 5 | 88.9 |
| 6 | 106.7 |
| 12 | 107.9 |

Note: The channel 1, 5, 6, 12 were pre-tested. The channel 5, worst case one, was chosen for radiated emission test. Test with a DVD Player as the sound source for the EUT.

The following support units or accessories were used to form a representative test configuration during the tests.

A. EUT

| Device | Manufacturer | Model # | FCC ID |
|----------------|-------------------------------|---------|----------|
| FM Transmitter | DesignTech International Inc. | 20800 | ELGFMTX1 |

B. Internal Devices

| Device | Manufacturer | Model # | FCCID / DoC |
|--------|--------------|---------|-------------|
| N/A | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

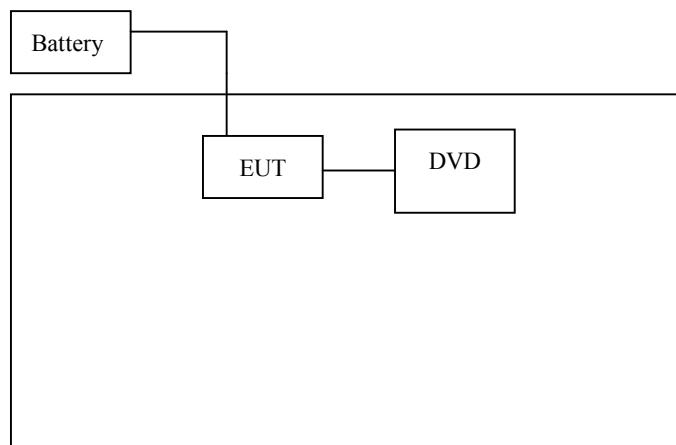
C. Peripherals

| Device | Manufacturer | Model # Serial # | FCC ID/ DoC | Cable |
|-------------------|-------------------------|---------------------|----------------|------------------------------|
| Mobile DVD Player | WANLIDA GROUP CO., LTD. | MP1607 | N/A | Audio Cable 1.2m un-shielded |
| | | | | |

4. 5 EUT Operating Condition

Operating condition is according to ANSI C63.4 - 2001.

- 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.



4. 6 Conducted Power Line Emission Limits

| FCC Part 15 Paragraph 15.207 (dBuV) | | |
|-------------------------------------|---------------|---------------|
| Frequency Range (MHz) | Class A QP/AV | Class B QP/AV |
| 0.15 – 0.5 | 79/66 | 66-56/56-46 |
| 0.5 – 5.0 | 73/60 | 56/46 |
| 5.0 - 30 | 73/60 | 60/50 |

NOTE : In the above table, the tighter limit applies at the band edges.

4. 7 Conducted Power Line Test Result

Owing to the DC operation of EUT, this test item is not performed.

5. Radiated Emission Test

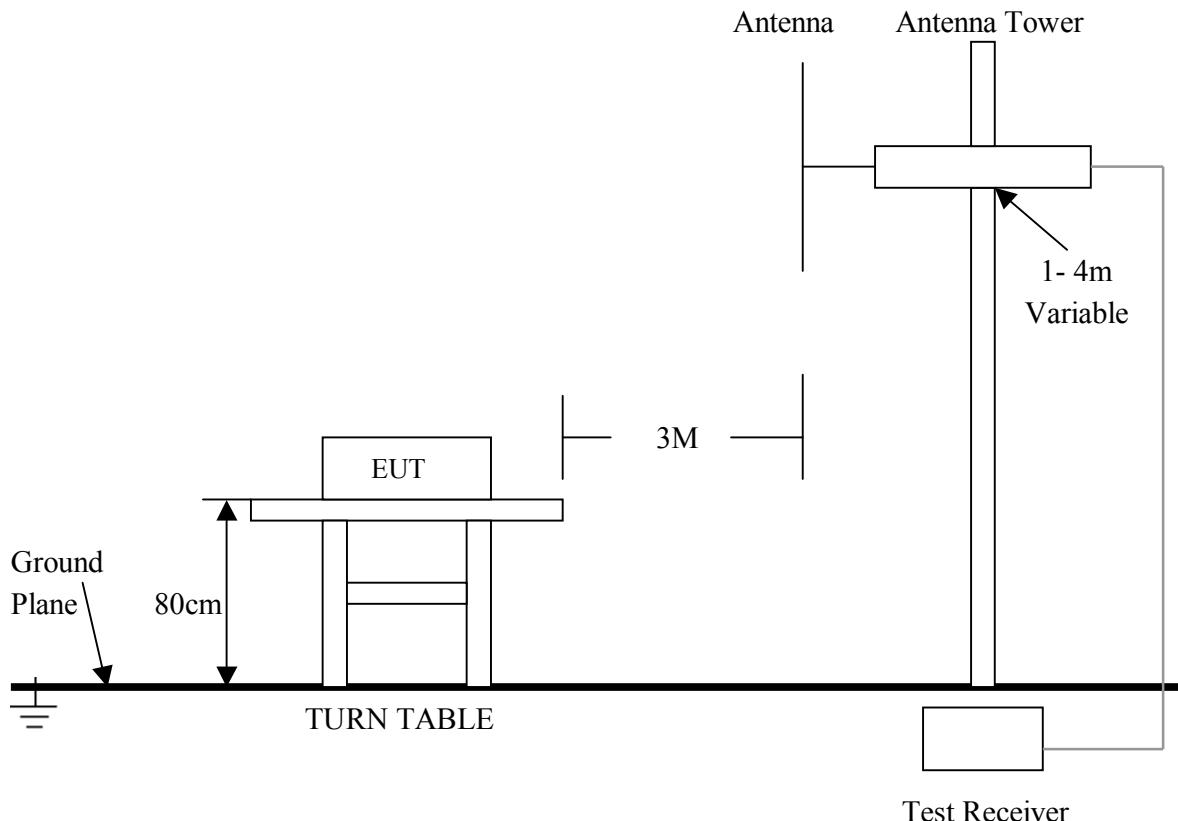
5. 1 Test Equipment

Please refer to Section 9 this report.

5. 2 Test Procedure

1. The EUT was tested according to ANSI C63.4 - 2001. The radiated test was performed at Ke Mei Ou Laboratory. This site is on file with the FCC laboratory division, Registration No. 125782.
2. The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.4-2001.
3. The frequency spectrum from 30 MHz to 1 GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 KHz. All readings are above 1 GHz, peak values with a resolution bandwidth of 1 MHz. Measurements were made at 3 meters.
4. The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
5. Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a "QP" in the data table.
6. The antenna polarization : Vertical polarization and Horizontal polarization.

5. 3 Radiated Test Setup



For the actual test configuration , please refer to the related items – Photos of Testing.

5. 4 Configuration of The EUT

Same as section 4 . 4 of this report

5. 5 EUT Operating Condition

Same as section 4 . 5 of this report.

5. 6 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below :

A. FCC Part 15 Subpart C Paragraph 15.239 Limit

According to 15.239 the field strength of emission from intentional radiators operated under these frequencies bands shall not exceed the following:

| Fundamental Frequency (MHz) | Field Strength of Fundamental (3m) | |
|--------------------------------|------------------------------------|------------------|
| | Peak (dBuV/m) | Average (dBuV/m) |
| 88 to 108 | 67.96 | 47.96 |

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

| Frequency (MHz) | Distance (m) | Field Strength (microvolts/m) |
|-----------------|--------------|-------------------------------|
| 0.009 - 0.490 | 300 | 2400/F(kHz) |
| 0.490 - 1.705 | 30 | 24000/F(kHz) |
| 1.705 – 30.0 | 30 | 30 |
| 30 - 88 | 3 | 100 |
| 88 - 216 | 3 | 150 |
| 216 - 960 | 3 | 200 |
| ABOVE 960 | 3 | 500 |

Note: As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20 dB under any condition of modulation.

5. 7 Radiated Emission Test Result

A. Fundamental Radiated Emission Data

| | | | |
|--------------|--------------------------------------|-------------|-------------|
| Product | : FM Transmitter | Test Mode | : Channel 1 |
| Test Item | : Fundamental Radiated Emission Data | Temperature | : 25 °C |
| Test Voltage | : DC 12V (Power by Battery) | Humidity | : 56%RH |
| Test Result | : PASS | | |

| Freq. (MHz) | Emission PK/AV (dBuV/m) | HORIZ / VERT | Limits PK/AV (dBuV/m) | Margin (dB) |
|----------------|----------------------------|-----------------|--------------------------|----------------|
| 88.091 | 43.2 / 41.8 | HORIZ | 67.96 / 47.96 | -24.76 / -6.16 |
| 88.091 | 48.0 / 46.2 | VERT | 67.96 / 47.96 | -19.96 / -1.36 |

Note: (1) PK= Peak, AV=Average.
 (2) Emission Level = Reading Level + Probe Factor + Cable Loss.

| | | | |
|--------------|--------------------------------------|-------------|-------------|
| Product | : FM Transmitter | Test Mode | : Channel 5 |
| Test Item | : Fundamental Radiated Emission Data | Temperature | : 25 °C |
| Test Voltage | : DC 12V (Power by Battery) | Humidity | : 56%RH |
| Test Result | : PASS | | |

| Freq. (MHz) | Emission PK/AV (dBuV/m) | HORIZ / VERT | Limits PK/AV (dBuV/m) | Margin (dB) |
|----------------|----------------------------|-----------------|--------------------------|----------------|
| 88.890 | 44.3 / 41.7 | HORIZ | 67.96 / 47.96 | -23.66 / -6.26 |
| 88.890 | 50.6 / 47.2 | VERT | 67.96 / 47.96 | -17.36 / -0.76 |

Note: (1) PK= Peak, AV=Average.
 (2) Emission Level = Reading Level + Probe Factor + Cable Loss.

| | | | |
|--------------|--------------------------------------|-------------|-------------|
| Product | : FM Transmitter | Test Mode | : Channel 6 |
| Test Item | : Fundamental Radiated Emission Data | Temperature | : 25 °C |
| Test Voltage | : DC 12V (Power by Battery) | Humidity | : 56%RH |
| Test Result | : PASS | | |

| Freq. (MHz) | Emission PK/AV (dBuV/m) | HORIZ / VERT | Limits PK/AV (dBuV/m) | Margin (dB) |
|----------------|----------------------------|-----------------|--------------------------|----------------|
| 106.689 | 44.8 / 42.3 | HORIZ | 67.96 / 47.96 | -23.16 / -5.66 |
| 106.689 | 50.3 / 47.0 | VERT | 67.96 / 47.96 | -17.96 / -0.96 |

Note: (1) PK= Peak, AV=Average.
 (2) Emission Level = Reading Level + Probe Factor + Cable Loss.

| | | | |
|--------------|--------------------------------------|-------------|--------------|
| Product | : FM Transmitter | Test Mode | : Channel 12 |
| Test Item | : Fundamental Radiated Emission Data | Temperature | : 25 °C |
| Test Voltage | : DC 12V (Power by Battery) | Humidity | : 56%RH |
| Test Result | : PASS | | |

| Freq. (MHz) | Emission PK/AV (dBuV/m) | HORIZ / VERT | Limits PK/AV (dBuV/m) | Margin (dB) |
|----------------|----------------------------|-----------------|--------------------------|----------------|
| 107.889 | 42.7 / 40.2 | HORIZ | 67.96 / 47.96 | -25.26 / -7.76 |
| 107.889 | 49.3 / 46.8 | VERT | 67.96 / 47.96 | -18.66 / -1.16 |

Note: (1) PK= Peak, AV=Average.
 (2) Emission Level = Reading Level + Probe Factor + Cable Loss.

B. General Radiated Emission Data & Harmonics Radiated Emission Data

| | | | |
|--------------|---|-------------|-------------|
| Product | : FM Transmitter | Test Mode | : Channel 5 |
| Test Item | : General Radiated Emission Data & Harmonics Radiated Emission Data | Temperature | : 25 °C |
| Test Voltage | : DC 12V (Power by Battery) | Humidity | : 56%RH |
| Test Result | : PASS | | |

| Freq. (MHz) | Emission (dB _u V/m) | HORIZ / VERT | Limits (dB _u V/m) | Margin (dB) |
|----------------|-----------------------------------|-----------------|---------------------------------|----------------|
| 33.640 | 31.7 | HORIZ | 40.0 | -8.3 |
| 44.400 | 33.4 | VERT | 40.0 | -6.6 |
| 66.680 | 32.1 | HORIZ | 40.0 | -7.9 |
| 45.600 | 36.2 | VERT | 40.0 | -3.8 |
| 72.200 | 29.7 | HORIZ | 40.0 | -10.3 |
| 757.920 | 33.1 | VERT | 46.0 | -12.9 |

Note: (1) All Reading Levels below 1GHz are Quasi-Peak, above are peak and average value.
(2) Emission Level = Reading Level + Probe Factor + Cable Loss.

6. Band Edge

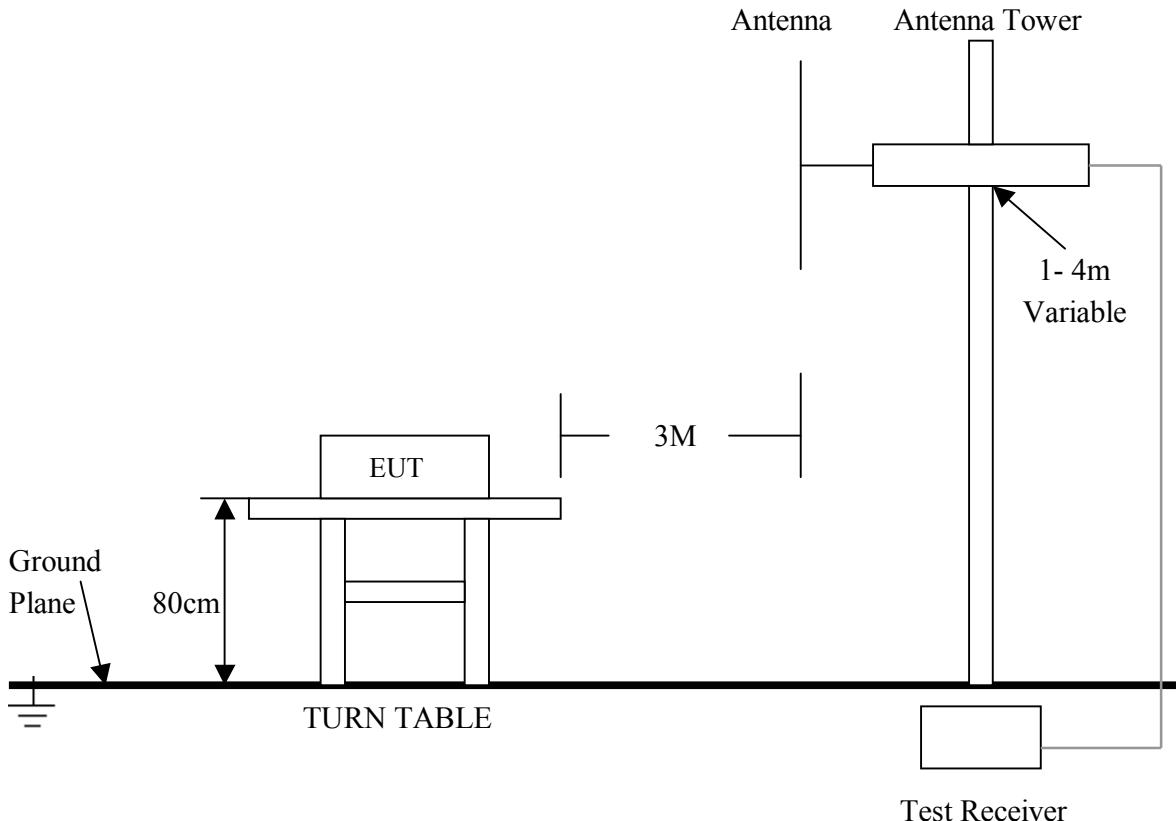
6. 1 Test Equipment

Please refer to Section 9 this report.

6. 2 Test Procedure

1. The EUT was tested according to ANSI C63.4 - 2001. The radiated test was performed at Ke Mei Ou Laboratory. This site is on file with the FCC laboratory division, Registration No. 125782.
2. The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.4-2001.
3. The frequency spectrum from 30 MHz to 1 GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 KHz. All readings are above 1 GHz , peak values with a resolution bandwidth of 1 MHz . Measurements were made at 3 meters.
4. The antenna height were varied from 1 m to 4 m high to find the maximum emission for each frequency.
5. The additional latch filter below 1GHz was used to measure the level of harmonics radiated emission during field strength of harmonics measurement. The bandwidth below 30MHz setting on the field strength meter is 10 kHz, above 1GHz are 1 MHz.
6. Maximizing procedure was performed on the highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a "QP" in the data table.
7. The antenna polarization : Vertical polarization and horizontal polarization.

6. 3 Radiated Test Setup



For the actual test configuration , please refer to the related items – Photos of Testing

6. 4 Configuration of The EUT

Same as section 4 . 4 of this report

6. 5 EUT Operating Condition

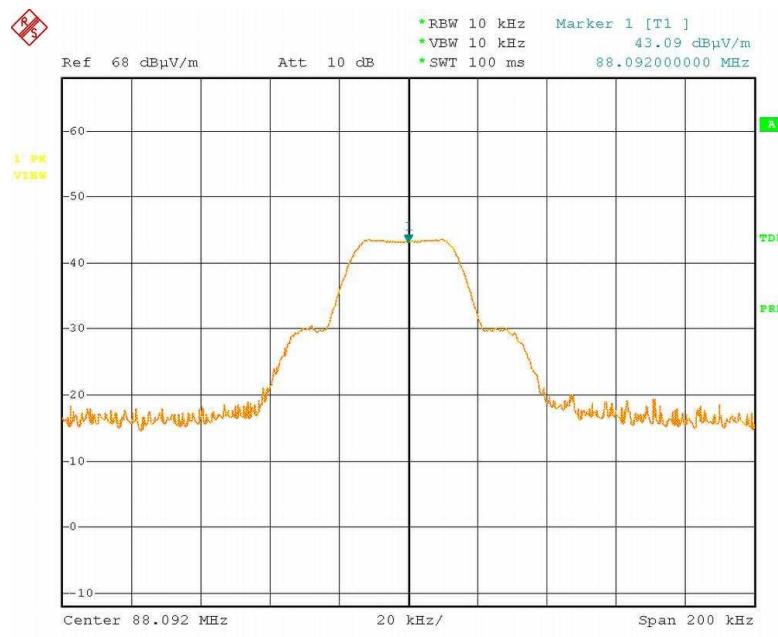
Same as section 4 . 5 of this report.

6. 6 Band Edge FCC 15.239 Limit

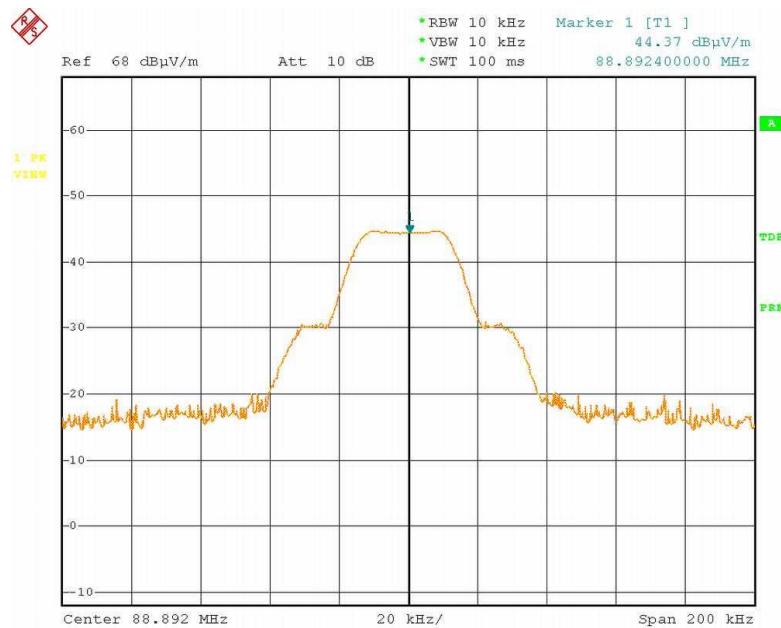
Emission from the intentional radiator shall be confined within a bands 200kHz wide centered on the operating frequency. The 200 kHz band shall lie wholly within the frequency range of 88 to 108 MHz.

6. 7 Band Edge Test Result

| | | | |
|--------------|-----------------------------|-------------|-------------|
| Product | : FM Transmitter | Test Mode | : Channel 1 |
| Test Item | : Band Edge Data | Temperature | : 25 °C |
| Test Voltage | : DC 12V (Power by Battery) | Humidity | : 56%RH |
| Test Result | : PASS | | |

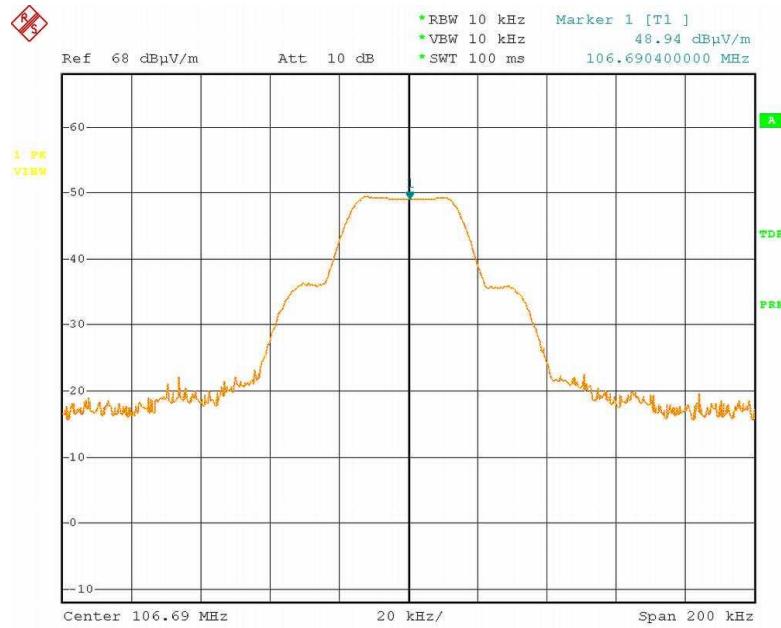


Product : FM Transmitter
 Test Item : Band Edge Data
 Test Voltage : DC 12V (Power by Battery)
 Test Result : **PASS**



Date: 22.OCT.2004 10:07:01

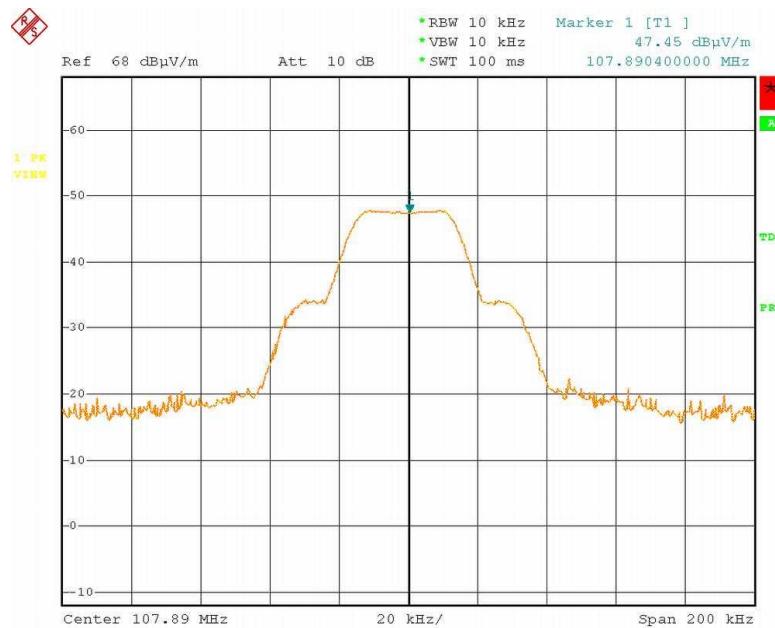
Product : FM Transmitter
 Test Item : Band Edge Data
 Test Voltage : DC 12V (Power by Battery)
 Test Result : **PASS**



Date: 22.OCT.2004 10:02:12

Product : FM Transmitter
Test Item : Band Edge Data
Test Voltage : DC 12V (Power by Battery)
Test Result : **PASS**

Test Mode : Channel 12
Temperature : 25 °C
Humidity : 56%RH



Date: 22.OCT.2004 10:00:13

Note: (1) The field strength of any emissions which appear outside of this band shall not exceed the general radiated emission limits in Section 15.209.
(2) The average measurement was not performed when the peak measured data under the limit of average detection.

7. Photos of Testing

7. 1 EUT Test Photographs

Radiated emission test view



7.2 EUT Detailed Photographs

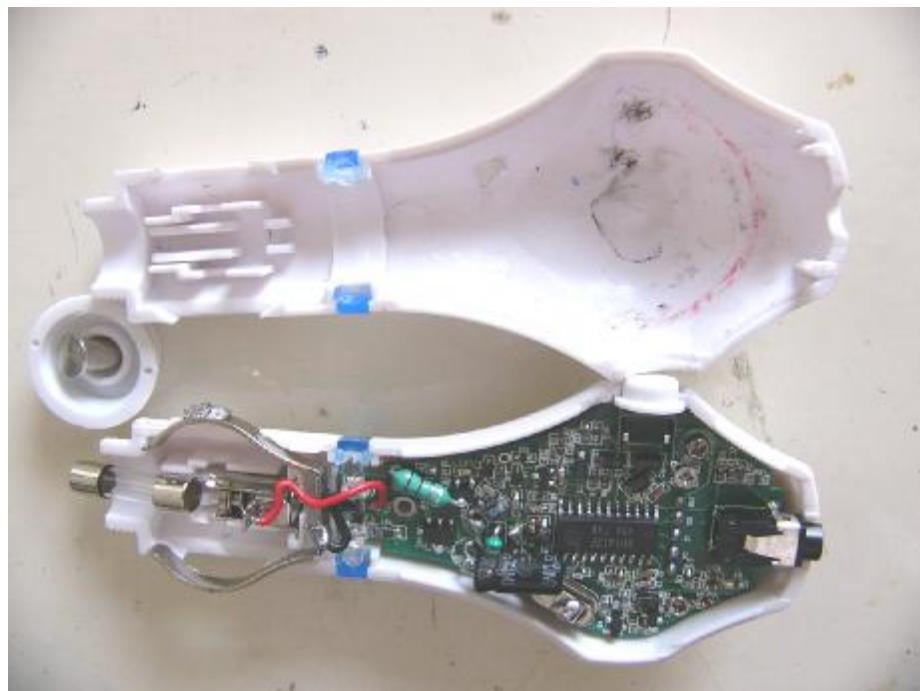
EUT top view



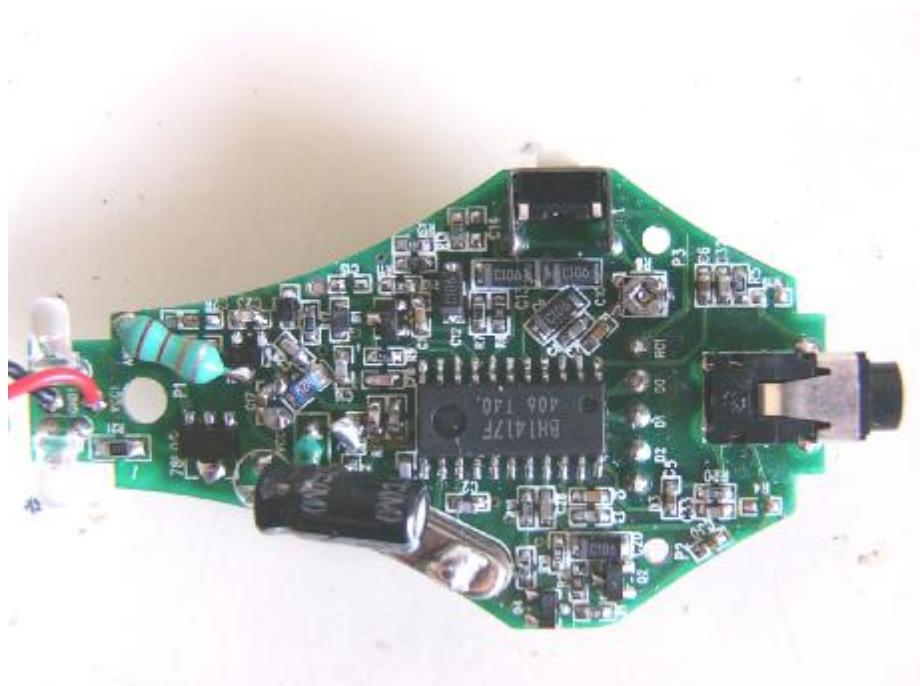
EUT bottom view



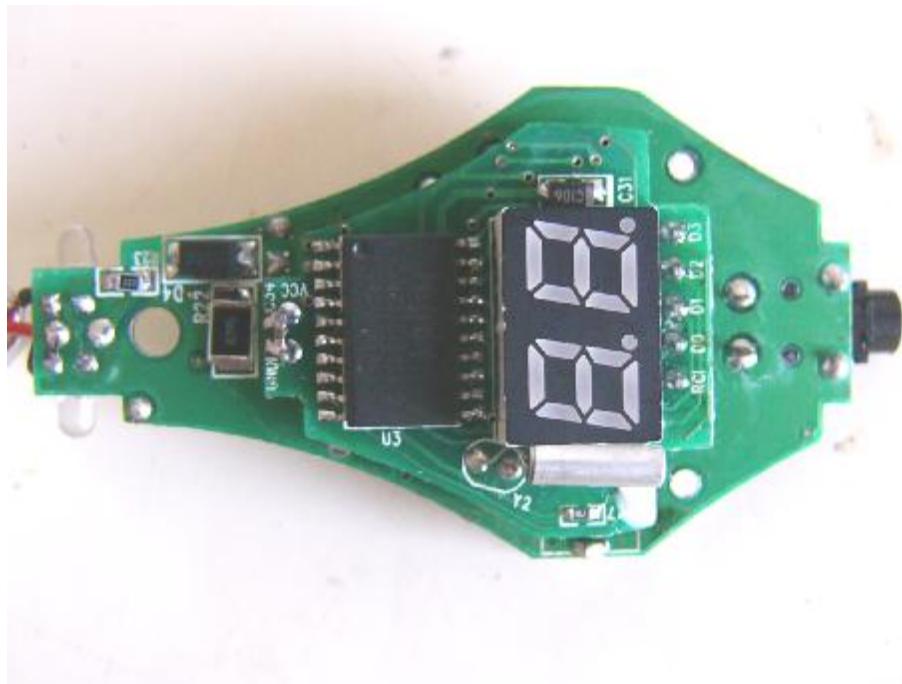
EUT inside whole view



Main board component side



Main board solder side



8. FCC ID Label

FCC ID: ELGFMTX1

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 label. 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 ID Label Location



9. Test Equipment

The following test equipments were used during the radiated & conducted emission test:

| Equipment/ Facilities | Manufacturer | Model # | Serial No. | Date of Cal. | Due Date |
|---------------------------------|--------------------|------------|------------|---------------|---------------|
| Turntable | KMO | KSZ001T | 200306 | NCR | NCR |
| Antenna Tower | KMO | KSZ002AT | 200307 | NCR | NCR |
| OATS | KMO | KSZSITE001 | N/A | July 06, 2004 | July 06, 2005 |
| EMI Test Receiver | Rohde & Schwarz | ESPI3 | 100180 | Oct.18, 2003 | Oct.18, 2004 |
| Signal Generator | Rohde & Schwarz | SMT03 | 100059 | Feb.01, 2004 | Feb.01, 2005 |
| Signal Generator | FLUKE | PM5418+Y/C | LO747012 | Feb 01, 2004 | Feb 01, 2005 |
| Signal Generator | FLUKE | PM5418TX | LO738007 | Feb 01, 2004 | Feb 01, 2005 |
| Biconical Antenna | Rohde & Schwarz | HK116 | EMC0502 | Dec. 14,2003 | Dec. 14,2004 |
| Bilog Antenna | Chase | CBL6111C | 2576 | Feb.01, 2004 | Feb.01, 2005 |
| Ultra Broadband Antenna | Rohde & Schwarz | HL 562 | 100110 | June.05, 2004 | June.05, 2005 |
| AMN | Rohde & Schwarz | ESH3-Z5 | 100196 | Oct. 23,2003 | Oct. 23, 2004 |
| AMN | Rohde & Schwarz | ESH3-Z5 | 100197 | Oct. 23,2003 | Oct. 23, 2004 |
| Pulse Limiter | Rohde & Schwarz | ESH3-Z2 | N/A | N/A | N/A |
| Absorbing Clamp | Rohde & Schwarz | MDS-21 | N/A | Oct. 29,2003 | Oct. 29,2004 |
| KMO Shielded Room | KMO | KMO-001 | N/A | N/A | N/A |
| EMI Test Receiver | Rohde & Schwarz | ESCS30 | 100003 | Feb. 27, 2004 | Feb.27, 2005 |
| AMN | Rohde & Schwarz | ESH3-Z5 | 100002 | Feb. 01, 2004 | Feb.01, 2005 |
| LISN | Kyoritsu | KNW-407 | 8-1441-8 | Feb. 23, 2004 | Feb.23, 2005 |
| EMI Test Receiver | Rohde & Schwarz | ESI26 | 838786/013 | Feb. 01, 2004 | Feb.01, 2005 |
| Bilog Antenna | Chase | CBL6112B | 2591 | Feb. 01, 2004 | Feb.01, 2005 |
| Horn Antenna | Rohde & Schwarz | HF906 | 100014 | Feb. 01, 2004 | Feb.01, 2005 |
| Power Meter | Rohde & Schwarz | NRVD | 100041 | Feb. 01, 2004 | Feb.01, 2005 |
| Radio Communication Test Set | Rohde & Schwarz | CMS 54 | 846621/024 | Feb 01, 2004 | Feb 01, 2005 |
| Modulation Analyzer | Hewlett-Packard | 8901B | 2303A00362 | Feb 01, 2004 | Feb 01, 2005 |
| Temperature Chamber | TABAI | PSL-4GTW | N/A | Feb 06,2004 | Feb 06, 2005 |
| 3m Semi-Anechoic Chamber | Albatross Projects | 9mX6mX6m | N/A | Feb. 01, 2004 | Feb.01, 2005 |