# Application for FCC Certificate
# On Behalf of
# Jiaxing Shufude Electric Bed Co., Ltd.

## Remote Control

## Model No.: SFD-NR-M003

## Serial No.: E2009040901

## FCC ID : WKZSFDNR3-1

Prepared For : Jiaxing Shufude Electric Bed Co., Ltd.
East No.07 Provincial Road, Tengyun Village,
Wangjiangjing Development Area,
Jiaxing, Zhejiang, China

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Report No. : ACI-F09033
Date of Test : Apr 14 – 17, 2009
Date of Report : Apr 18, 2009

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# TEST REPORT FOR FCC CERTIFICATION

| | | |
|---|---|---|
| Applicant | : | Jiaxing Shufude Electric Bed Co., Ltd. |
| Manufacturer | : | Jiaxing Shufude Electric Bed Co., Ltd.. |
| EUT Description | : | Remote Control |
| | (A) Model No. | : SFD-NR-M003 |
| | (B) Serial No. | : E2009040901 |
| | (C) Power Supply | : DC 4.5V (AAA Battery*3) |

Test Procedure Used:

*FCC RULES AND REGULATIONS PART 15 SUBPART C OCTOBER 2008 AND ANSI C63.4:2003*

The device described above is tested by Audix Technology (Shanghai) 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 limits radiated emission.

The test results are contained in this test report and Audix Technology (Shanghai) Co., Ltd. is assumed full responsibility for the accuracy and completeness of these measurements. This report shows that the EUT (M/N: SFD-NR-M003; S/N: E2009040901), which was tested in 3m anechoic chamber on Apr 14 – 17, 2009 to be technically compliant with the FCC official limits also.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of Audix Technology (Shanghai) Co., Ltd.

This report contains data that are not covered by the NVLAP accreditation.

This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government by the client.

Date of Test : Apr 14 – 17, 2009 Date of Report : Apr 18, 2009

Producer : Dio Yang
DIO YANG / Supervisor

Review : Sammy Chen
SAMMY CHEN / Assistant Manager

AUDIX® For and on behalf of
Audix Technology (Shanghai) Co., Ltd.

Signatory : Byron Kwo
Authorized Signature EMC BYRON KWO / Manager

# 1 SUMMARY OF STANDARDS AND RESULTS

## 1.1 Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below:

| Description / Test Item | Test Standard | Meets Limit | Results |
|---|---|---|---|
| Conducted Emission at the Mains Terminal | FCC RULES AND REGULATIONS PART 15 SUBPART C OCTOBER 2008 AND ANSI C63.4:2003 | 15.207 | N/A |
| Radiated Emission | FCC RULES AND REGULATIONS PART 15 SUBPART C OCTOBER 2008 AND ANSI C63.4:2003 | 15.209 | Pass |
| Fundamental and Harmonics Emission | FCC RULES AND REGULATIONS PART 15 SUBPART C OCTOBER 2008 AND ANSI C63.4:2003 | 15.249 | Pass |
| Bandwidth Measurement | FCC RULES AND REGULATIONS PART 15 SUBPART C OCTOBER 2008 AND ANSI C63.4:2003 | 15.231 | Pass |
| Band-Edge Measurement | FCC RULES AND REGULATIONS PART 15 SUBPART C OCTOBER 2008 AND ANSI C63.4:2003 | 15.249 | Pass |
| N/A is an abbreviation for Not Applicable. | | | |

# 2 GENERAL INFORMATION

## 2.1 Description of Equipment Under Test

| | | |
|---|---|---|
| Description | : | Remote Control |
| Type of EUT | : | ☑ Production ☐ Pre-product ☐ Pro-type |
| Model No. | : | SFD-NR-M003 |
| Serial No. | : | E2009040901 |
| Applicant | : | Jiaxing Shufude Electric Bed Co., Ltd.<br>East No.07 Provincial Road, Tengyun Village,<br>Wangjiangjing Development Area,<br>Jiaxing, Zhejiang, China |
| Manufacturer | : | Jiaxing Shufude Electric Bed Co., Ltd.<br>No.773 Furun Road, Dongshan Industrial Park,<br>Jiaxing, Zhejiang, China |
| Power Supply | : | Battery Operated<br>DC 4.5V (AAA Battery*3)<br>The tests were performed using new batteries |
| Modulation | : | MSK 500kbps |
| Operation Frequency | : | 2464 MHz, 2465 MHz, 2466 MHz,<br>2467 MHz, 2468 MHz, 2469 MHz,<br>2470 MHz, 2471 MHz<br>The above frequencies can be set through the 8-dip SW on the back of the Remote Control (only No.1-3 SW, the No.4 SW has not function) |
| Frequency Channel | : | 8 Channels |
| Tested Frequency | : | 2464 MHz (Channel 01)<br>2468 MHz (Channel 05)<br>2471 MHz (Channel 08) |
| Antenna Location | : | Top of the RF module<br>Please see Figure 6 in APPENDIX III,<br>Photographs of EUT for further information. |
| Antenna Type | : | Internal permanently attached antenna |

## 2.2 Description of Test Facility

| | | |
|---|---|---|
| Site Description<br>(Semi-Anechoic Chamber) | : | Sept. 17, 1998 file on<br>July 26, 2006 Renewed<br>Federal Communications Commission<br>FCC Engineering Laboratory<br>7435 Oakland Mills Road<br>Columbia, MD 21046, USA |
| Name of Firm | : | Audix Technology (Shanghai) Co., Ltd. |
| Site Location | : | 3F 34Bldg 680 Guiping Rd.,<br>Caohejing Hi-Tech Park,<br>Shanghai 200233, China |
| FCC registration Number | : | 91789 |
| Accredited by NVLAP, Lab Code | : | 200371-0 |

## 2.3 Measurement Uncertainty

Radiated Emission Expanded Uncertainty : U = 3.02dB

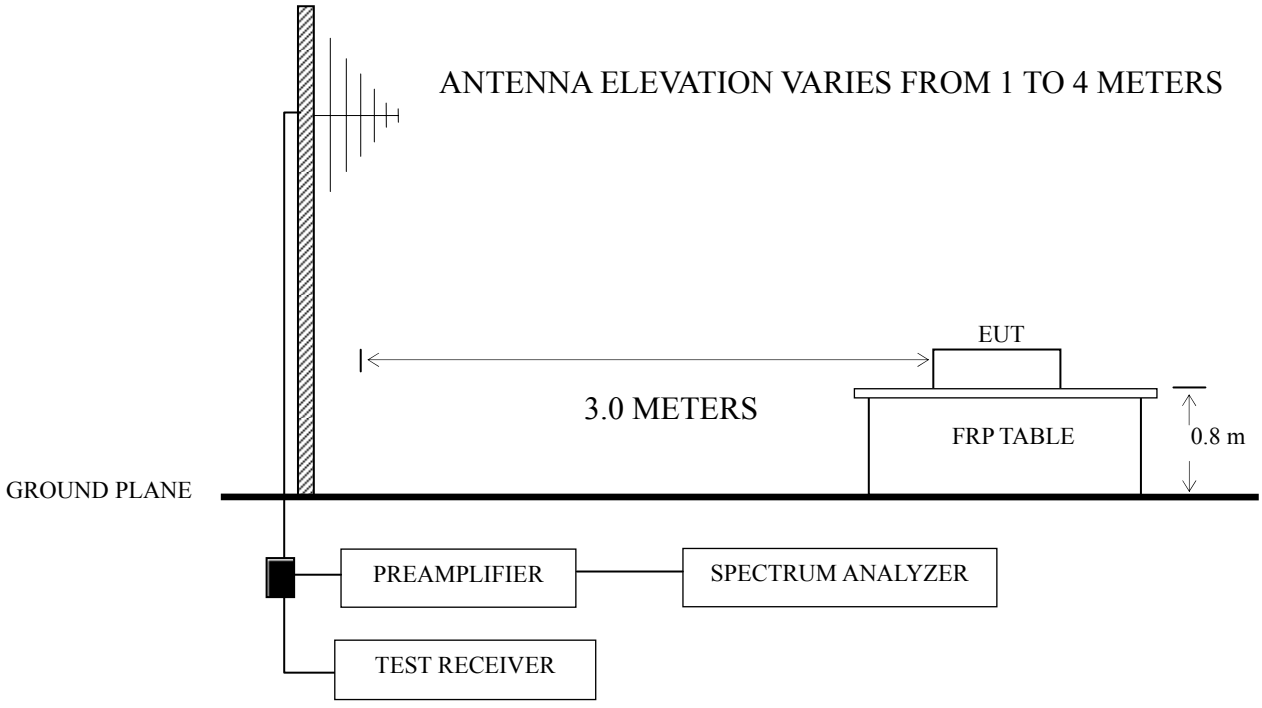
# 3 RADIATED EMISSION TEST

## 3.1 Test Equipment

The following test equipments are used during the radiated emission test in a semi-anechoic chamber:

| Item | Type | Manufacturer | Model No. | Serial No. | Last Cal. | Next Cal. |
|---|---|---|---|---|---|---|
| 1. | Preamplifier | HP | 8447D | 2944A06849 | Mar 18, 2009 | Sep 19, 2009 |
| 2. | Preamplifier | HP | 8449B | 3008A00864 | May 19, 2008 | May 19,2009 |
| 3. | Spectrum Analyzer | Agilent | E7405A | MY45106600 | May 19, 2008 | May 19,2009 |
| 4. | Test Receiver | R&S | ESVS10 | 832699/004 | Apr 02, 2009 | Apr 02, 2010 |
| 5. | Bilog Antenna | TESEQ | CBL6112D | 23193 | May 14, 2008 | May 14, 2009 |
| 6. | Horn Antenna | EMCO | 3115 | 9607-4878 | Apr 24, 2008 | Apr 24, 2009 |
| 7. | Horn Antenna | EMCO | 3116 | 00062643 | Apr 24, 2008 | Apr 24, 2009 |
| 8. | 50Ω Coaxial Switch | Anritsu | MP59B | 6200426390 | Mar 18, 2009 | Sep 19, 2009 |
| 9. | Software | Audix | E3 | SET00200 9912M295-2 | - | - |

## 3.2 Block Diagram of Test Setup




■ : 50 ohm Coaxial Switch

## 3.3 Radiated Emission Limit [FCC Part 15 Subpart C 15.209]

| Frequency (MHz) | Distance (m) | Field strength limits (μV/m) | |
|---|---|---|---|
| | | (μV/m) | dB (μV/m) |
| 30 ~ 88 | 3 | 100 | 40.0 |
| 88 ~ 216 | 3 | 150 | 43.5 |
| 216 ~ 960 | 3 | 200 | 46.0 |
| Above 960 | 3 | 500 | 54.0 |

NOTE 1 - Emission Level dB (μV/m) = 20 lg Emission Level (μV/m)
NOTE 2 - The tighter limit applies at the band edges.
NOTE 3 - Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
NOTE 4 - The limits shown are based on Quasi-peak value detector below or equal to 1GHz and Average value detector above 1GHz.
NOTE 5 - Above 1 GHz, the limit on peak emission is 20 dB above the maximum permitted average emission limit applicable to the EUT

## 3.4 Test Configuration

The EUT was installed as show on Sec. 3.2 in radiated emission test to meet FCC requirement and operating in a manner, which tend to maximize emission level in a normal application.

## 3.5 Operating Condition of EUT

3.5.1 Setup the EUT as shown in Sec. 3.2.

3.5.2 Turn on the power of all equipment.

3.5.3 Set the EUT on the test mode (Transmitting).

3.5.4 Configured the EUT in three axis: Lying, Side, Stand, and test separately.

## 3.6 Test Procedures

The EUT was placed on a FRP turntable that is 0.8 meter above ground. The FRP turntable rotated 360 degrees to determine the position of the maximum emission level. The EUT was set 3 meters away from the receiving antenna, which was mounted on an antenna tower. Broadband antenna (Calibrated Bilog Antenna) and horn antenna was used as receiving antenna. The antenna moved up and down between 1 meter and 4 meters to find out the maximum emission level. Both horizontal and vertical polarizations of the antenna were set on measurement. In order to find the maximum emission, all of the interference cables were manipulated according to ANSI C63.4:2003 requirements during radiated emission test.

The bandwidth of Test Receiver R&S ESVS10 was set at 120 kHz for frequency range from 30MHz to 1000MHz.

The bandwidth of the VBW was set at 1MHz and RBW was set at 1MHz for peak emission measurement above 1GHz and 1MHz RBW, 10Hz VBW for average emission above 1GHz for Spectrum Agilent E7405A.

The frequency range from 30 MHz to 25 GHz (Up to $10^{th}$ harmonics from fundamental frequency) was checked.

The EUT was tested under the following test modes:

| Mode | Operation | Channel | Fundamental Frequency |
|---|---|---|---|
| 1. | Transmitting | 01 | 2464 MHz |
| 2. | | 05 | 2468 MHz |
| 3. | | 08 | 2471 MHz |

The test mode (Transmitting) was done on radiated emission test.

Please refer to Sec.3.7.

## 3.7 Test Results

**<PASS>**

The frequency and amplitude of the highest radiated emission relative the limit is reported. All the emissions not reported below are too low against the FCC limit.

| Mode | Operation | Channel | Fundamental Frequency | Data Page |
|---|---|---|---|---|
| 1. | Transmitting | 01 | 2464 MHz | P11 |
| 2. | | 05 | 2468 MHz | P12 |
| 3. | | 08 | 2471 MHz | P13 |

NOTE 1 – Level = Read Level + Antenna Factor + Cable Loss (<1GHz)

NOTE 2 – Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor (>1GHz)

NOTE 3 – 0° was the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.

NOTE 4 – The emission levels which not reported are too low against the official limit.

NOTE 5 – The emission levels recorded below is data of EUT configured in Lying direction, for Lying direction was the maximum emission direction during the test. The data of Side & Stand direction are too low against the official limit to be reported.

NOTE 6 – All reading are Quasi-Peak values below or equal to 1GHz and Peak values above 1GHz. For measurements above 1 GHz, the peak measured value complies with the average limit, it is unnecessary to perform an average measurement.

| | | | | | |
|---|---|---|---|---|---|
| EUT | : | Remote Control | Temperature : | | 23℃ |
| Model No. | : | SFD-NR-M003 | Humidity | : | 56%RH |
| Serial No. | : | E2009040901 | Date of Test | : | Apr 15, 2009 |
| Test Mode | : | Transmitting Ch01 2464MHz | | | |

| Polarization | Frequency (MHz) | Read Level dB (μV) | Antenna Factor (dB/m) | Preamp Factor (dB) | Cable Loss (dB) | Factor (dB/m) | Level dB (μV/m) | Limits dB (μV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| Horizontal | 31.94 | -2.07 | 18.49 | -- | 0.59 | 19.08 | 17.01 | 40 | 22.99 | QP |
| | 92.08 | -2.56 | 9.82 | -- | 0.85 | 10.67 | 8.11 | 43 | 35.39 | |
| | 245.34 | -3.19 | 12.72 | -- | 1.25 | 13.97 | 10.78 | 46 | 35.22 | |
| | 482.99 | -2.01 | 17.70 | -- | 2.33 | 20.03 | 18.02 | 46 | 27.98 | |
| | 627.52 | -2.69 | 19.34 | -- | 2.71 | 22.05 | 19.36 | 46 | 26.64 | |
| | 869.05 | -1.94 | 21.42 | -- | 3.46 | 24.88 | 22.94 | 46 | 23.06 | |
| | 1240.00 | 46.43 | 25.18 | 37.08 | 4.27 | -7.63 | 38.80 | 74 | 35.20 | PK |
| | 1540.00 | 45.97 | 26.27 | 36.45 | 4.81 | -5.37 | 40.60 | 74 | 33.40 | |
| | 2416.00 | 45.46 | 28.95 | 35.28 | 5.30 | -1.03 | 44.43 | 74 | 29.57 | |
| | 3772.00 | 44.76 | 32.16 | 33.85 | 8.02 | 6.33 | 51.09 | 74 | 22.91 | |
| | 7948.00 | 36.57 | 36.07 | 34.40 | 12.89 | 14.56 | 51.13 | 74 | 22.87 | |
| | 12112.00 | 31.80 | 38.00 | 34.02 | 16.72 | 20.70 | 52.50 | 74 | 21.50 | |
| Vertical | 31.94 | -2.88 | 18.49 | -- | 0.59 | 19.08 | 16.20 | 40 | 23.80 | QP |
| | 129.91 | -2.09 | 12.52 | -- | 0.90 | 13.42 | 11.33 | 43.5 | 32.17 | |
| | 244.37 | -2.07 | 12.68 | -- | 1.25 | 13.93 | 11.86 | 46 | 34.14 | |
| | 429.64 | -1.38 | 16.92 | -- | 2.14 | 19.06 | 17.68 | 46 | 28.32 | |
| | 685.72 | -2.67 | 19.63 | -- | 2.99 | 22.62 | 19.95 | 46 | 26.05 | |
| | 946.65 | -2.31 | 22.05 | -- | 3.68 | 25.73 | 23.42 | 46 | 22.58 | |
| | 1192.00 | 46.35 | 24.99 | 37.19 | 4.18 | -8.02 | 38.33 | 74 | 35.67 | PK |
| | 2008.00 | 46.41 | 27.62 | 35.69 | 5.30 | -2.77 | 43.64 | 74 | 30.36 | |
| | 2740.00 | 46.30 | 29.86 | 35.01 | 6.17 | 1.02 | 47.32 | 74 | 26.68 | |
| | 3940.00 | 43.87 | 32.47 | 33.66 | 8.47 | 7.28 | 51.15 | 74 | 22.85 | |
| | 4816.00 | 43.63 | 33.26 | 34.61 | 9.86 | 8.51 | 52.14 | 74 | 21.86 | |
| | 10120.00 | 35.48 | 36.63 | 35.10 | 15.10 | 16.63 | 52.11 | 74 | 21.89 | |

TEST ENGINEER: DIO YANG

| | | | | | |
|---|---|---|---|---|---|
| EUT | : | Remote Control | Temperature : | 23℃ |
| Model No. | : | SFD-NR-M003 | Humidity : | 56%RH |
| Serial No. | : | E2009040901 | Date of Test : | Apr 15, 2009 |
| Test Mode | : | Transmitting Ch05 2468MHz | | |

| Polarization | Frequency (MHz) | Read Level dB (μV) | Antenna Factor (dB/m) | Preamp Factor (dB) | Cable Loss (dB) | Factor (dB/m) | Level dB (μV/m) | Limits dB (μV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| Horizontal | 33.88 | -3.20 | 17.44 | -- | 0.61 | 18.05 | 14.85 | 40 | 25.15 | QP |
| | 115.36 | -2.36 | 12.71 | -- | 0.88 | 13.59 | 11.23 | 43.5 | 32.27 | |
| | 242.43 | -2.54 | 12.64 | -- | 1.24 | 13.88 | 11.34 | 46 | 34.66 | |
| | 361.74 | -2.62 | 15.65 | -- | 1.87 | 17.52 | 14.90 | 46 | 31.10 | |
| | 695.42 | -2.81 | 19.67 | -- | 3.03 | 22.70 | 19.89 | 46 | 26.11 | |
| | 908.82 | -2.39 | 21.76 | -- | 3.56 | 25.32 | 22.93 | 46 | 23.07 | |
| | 1072.00 | 46.20 | 24.45 | 37.50 | 3.99 | -9.06 | 37.14 | 74 | 36.86 | PK |
| | 2344.00 | 44.98 | 28.74 | 35.35 | 5.30 | -1.31 | 43.67 | 74 | 30.33 | |
| | 3868.00 | 43.36 | 32.35 | 33.74 | 8.30 | 6.91 | 50.27 | 74 | 23.73 | |
| | 7048.00 | 38.57 | 35.35 | 34.50 | 11.67 | 12.52 | 51.09 | 74 | 22.91 | |
| | 9220.00 | 35.73 | 37.16 | 35.28 | 14.09 | 15.97 | 51.70 | 74 | 22.30 | |
| | 10876.00 | 33.44 | 38.07 | 34.48 | 15.80 | 19.39 | 52.83 | 74 | 21.17 | |
| Vertical | 30.97 | -2.33 | 19.03 | -- | 0.57 | 19.60 | 17.27 | 40 | 22.73 | QP |
| | 112.45 | 0.22 | 12.51 | -- | 0.87 | 13.38 | 13.60 | 43.5 | 29.90 | |
| | 201.69 | -1.45 | 10.78 | -- | 1.09 | 11.87 | 10.42 | 43.5 | 33.08 | |
| | 378.23 | -2.47 | 16.03 | -- | 1.93 | 17.96 | 15.49 | 46 | 30.51 | |
| | 668.26 | -2.64 | 19.55 | -- | 2.91 | 22.46 | 19.82 | 46 | 26.18 | |
| | 929.19 | -2.48 | 21.90 | -- | 3.60 | 25.50 | 23.02 | 46 | 22.98 | |
| | 1180.00 | 46.23 | 24.93 | 37.22 | 4.18 | -8.11 | 38.12 | 74 | 35.88 | PK |
| | 2212.00 | 45.27 | 28.33 | 35.47 | 5.30 | -1.84 | 43.43 | 74 | 30.57 | |
| | 3232.00 | 45.95 | 31.05 | 34.49 | 7.19 | 3.75 | 49.70 | 74 | 24.30 | |
| | 5200.00 | 42.96 | 33.61 | 34.74 | 9.98 | 8.85 | 51.81 | 74 | 22.19 | |
| | 9496.00 | 36.43 | 36.89 | 35.25 | 14.24 | 15.88 | 52.31 | 74 | 21.69 | |
| | 12052.00 | 31.01 | 37.73 | 34.16 | 16.64 | 20.21 | 51.22 | 74 | 22.78 | |

TEST ENGINEER: DIO YANG

| | | | | | |
|---|---|---|---|---|---|
| EUT | : | Remote Control | Temperature : | 23℃ |
| Model No. | : | SFD-NR-M003 | Humidity : | 56%RH |
| Serial No. | : | E2009040901 | Date of Test : | Apr 15, 2009 |
| Test Mode | : | Transmitting Ch08 2471MHz | | |

| Polarization | Frequency (MHz) | Read Level dB (μV) | Antenna Factor (dB/m) | Preamp Factor (dB) | Cable Loss (dB) | Factor (dB/m) | Level dB (μV/m) | Limits dB (μV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| Horizontal | 34.85 | -1.19 | 16.97 | -- | 0.62 | 17.59 | 16.40 | 40 | 23.60 | QP |
| | 117.30 | -0.55 | 12.84 | -- | 0.88 | 13.72 | 13.17 | 43.5 | 30.33 | |
| | 281.23 | -0.18 | 13.57 | -- | 1.44 | 15.01 | 14.83 | 46 | 31.17 | |
| | 461.65 | 0.23 | 17.40 | -- | 2.26 | 19.66 | 19.89 | 46 | 26.11 | |
| | 682.81 | -0.73 | 19.62 | -- | 2.99 | 22.61 | 21.88 | 46 | 24.12 | |
| | 932.10 | -0.74 | 21.93 | -- | 3.64 | 25.57 | 24.83 | 46 | 21.17 | |
| | 1324.00 | 46.06 | 25.51 | 36.89 | 4.42 | -6.96 | 39.10 | 74 | 34.90 | PK |
| | 2572.00 | 45.49 | 29.40 | 35.14 | 5.68 | -0.06 | 45.43 | 74 | 28.57 | |
| | 3712.00 | 44.85 | 32.05 | 33.91 | 7.89 | 6.03 | 50.88 | 74 | 23.12 | |
| | 8068.00 | 36.33 | 36.20 | 34.47 | 13.06 | 14.79 | 51.12 | 74 | 22.88 | |
| | 9892.00 | 34.43 | 36.51 | 35.21 | 14.92 | 16.22 | 50.65 | 74 | 23.35 | |
| | 12208.00 | 31.28 | 38.40 | 33.88 | 16.85 | 21.37 | 52.65 | 74 | 21.35 | |
| Vertical | 31.94 | 0.08 | 18.49 | -- | 0.59 | 19.08 | 19.16 | 40 | 20.84 | QP |
| | 141.55 | -1.64 | 12.01 | -- | 0.91 | 12.92 | 11.28 | 43.5 | 32.22 | |
| | 315.18 | 1.56 | 14.32 | -- | 1.62 | 15.94 | 17.50 | 46 | 28.50 | |
| | 526.64 | 0.38 | 18.24 | -- | 2.43 | 20.67 | 21.05 | 46 | 24.95 | |
| | 601.33 | -1.17 | 19.21 | -- | 2.59 | 21.80 | 20.63 | 46 | 25.37 | |
| | 851.59 | 4.16 | 21.24 | -- | 3.42 | 24.66 | 28.82 | 46 | 17.18 | |
| | 1048.00 | 46.86 | 24.33 | 37.56 | 3.96 | -9.27 | 37.59 | 74 | 36.41 | PK |
| | 2044.00 | 46.74 | 27.75 | 35.65 | 5.30 | -2.60 | 44.14 | 74 | 29.86 | |
| | 3028.00 | 45.04 | 30.56 | 34.76 | 7.05 | 2.85 | 47.89 | 74 | 26.11 | |
| | 4588.00 | 43.40 | 33.09 | 34.35 | 9.82 | 8.56 | 51.96 | 74 | 22.04 | |
| | 7228.00 | 39.27 | 35.49 | 34.48 | 11.96 | 12.97 | 52.24 | 74 | 21.76 | |
| | 9448.00 | 34.19 | 36.94 | 35.25 | 14.18 | 15.87 | 50.06 | 74 | 23.94 | |

TEST ENGINEER: DIO YANG

# 4 FUNDAMENTAL AND HARMONICS EMISSIONS TEST

## 4.1 Test Equipment

The following test equipments are used during the fundamental and spurious emission test in a semi-anechoic chamber:

| Item | Type | Manufacturer | Model No. | Serial No. | Last Cal. | Next Cal. |
|---|---|---|---|---|---|---|
| 1. | Preamplifier | HP | 8449B | 3008A00864 | May 19, 2008 | May 19,2009 |
| 2. | Spectrum Analyzer | Agilent | E7405A | MY45106600 | May 19, 2008 | May 19,2009 |
| 3. | Horn Antenna | EMCO | 3115 | 9607-4878 | Apr 24, 2008 | Apr 24, 2009 |
| 4. | Horn Antenna | EMCO | 3116 | 00062643 | Apr 24, 2008 | Apr 24, 2009 |

## 4.2 Block Diagram of Test Setup

Same as Sec 3.2

## 4.3 Fundamental and Harmonics Emission Limit [FCC Part 15 Subpart C 15.249(a)]

| Fundamental Frequency (MHz) | Distance (m) | Field Strength of Fundamental | | Field Strength of Harmonics | |
|---|---|---|---|---|---|
| | | (millivolts/meter) | dB (μV/m) | (microvolts/meter) | dB (μV/m) |
| 2400 ~ 2483.5 | 3 | 50 | 94 | 500 | 54 |

NOTE 1 - Emission Level dB (μV/m) = 20 lg Emission Level (μV/m)
NOTE 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.
NOTE 3 - The limits shown are based on Average value detector.
NOTE 4 - The limit on peak emission is 20 dB above the maximum permitted average emission limit applicable to the EUT

## 4.4 Test Configuration

The EUT was installed as show on Sec. 3.2 in fundamental and spurious emission test to meet ANSI C63.4:2003 requirements and operating in a manner that tend to maximize emission level in a normal application.

## 4.5 Operating Condition of EUT

4.5.1 Setup the EUT as shown in Sec. 3.2.

4.5.2 Turn on the power of all equipment.

4.5.3 Set the EUT on the test mode (Transmitting).

4.5.4 Configured the EUT in three axis: Lying, Side, Stand, and test separately.

## 4.6 Test Procedures

The EUT was placed on a FRP turntable that is 0.8 meter above ground. The turntable rotated 360 degrees to determine the position of the maximum emission level. The EUT was set 3 meters away from the receiving antenna, which was mounted on an antenna tower. Both horizontal and vertical polarization of the antenna was set on measurement. In order to find the maximum emission, all of the interference cables were manipulated according to FCC PART 15 Subpart C and ANSI C63.4:2003 requirements during fundamental and harmonics emission test.

The bandwidth of the VBW was set at 1MHz and RBW was set at 1MHz for peak emission measurement and 1MHz RBW, 10Hz VBW for average emission measurement.

The frequency range from 2.4 GHz to 25 GHz (Up to $10^{th}$ harmonics from fundamental frequency) was checked.

The EUT was tested under the following test modes:

| Mode | Operation | Channel | Fundamental Frequency |
|---|---|---|---|
| 1. | Transmitting | 01 | 2464 MHz |
| 2. | | 05 | 2468 MHz |
| 3. | | 08 | 2471 MHz |

The test mode (Transmitting) was done on Fundamental and Harmonics Emission test.

## 4.7 Test Results

**<PASS>**

The frequency and amplitude of the highest radiated emission relative the limit is reported. All the emissions not reported below are too low against the FCC limit.

| Mode | Operation | Channel | Fundamental Frequency | Data Page |
|---|---|---|---|---|
| 1. | Transmitting | 01 | 2464 MHz | P17 |
| 2. | | 05 | 2468 MHz | P18 |
| 3. | | 08 | 2471 MHz | P19 |

NOTE 1 - All readings are Peak values and Average values

NOTE 2 - The emission levels recorded below is data of EUT configured in Lying direction, for Lying direction was the maximum emission direction during the test. The data of Side & Stand direction are too low against the official limit to be reported.

NOTE 3 - The harmonics emission levels which not reported are too low against the official limit.

NOTE 4 – PK Level = Read Level + Factor
AV Level = PK Level – Correction Factor.

NOTE 5 - Factor = Antenna Factor + Cable Loss - Preamp Factor

NOTE 6 - Correction factor is measured as follows:

| |
|---|
| Duty Cycle x = Tx on / (Tx on + Tx off) = 7.145 / 15.651 = 0.46 |
| Correction Factor = \|20log(Duty Cycle)\| = 6.74 dB |

NOTE 7 – The duty cycle was calculated according to the plot in Appendix I

| | | | | | |
|---|---|---|---|---|---|
| EUT | : | Remote Control | Temperature : | 22℃ |
| Model No. | : | SFD-NR-M003 | Humidity : | 57% RH |
| Serial No. | : | E2009040901 | Date of Test : | Apr 16, 2009 |
| Test Mode | | Transmitting Ch01<br>2464 MHz | | |

| Polarization | Frequency (MHz) | Read Level dB (μV) | Factor (dB/m) | Correction factor (dB) | Level dB (μV/m) | Limits dB (μV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|
| Horizontal | 2464 | 95.81 | -0.17 | -- | 95.64 | 114 | 18.36 | PK |
| | 4928 | 46.28 | 8.52 | -- | 54.80 | 74 | 19.20 | |
| | 7392 | 42.61 | 13.41 | -- | 56.02 | 74 | 17.98 | |
| | 9856 | 43.16 | 15.33 | -- | 58.49 | 74 | 15.51 | |
| | 2464 | 95.81 | -0.17 | 6.74 | 88.9 | 94 | 5.10 | AV |
| | 4928 | 46.28 | 8.52 | 6.74 | 48.06 | 54 | 5.94 | |
| | 7392 | 42.61 | 13.41 | 6.74 | 49.28 | 54 | 4.72 | |
| | 9856 | 43.16 | 15.33 | 6.74 | 51.75 | 54 | 2.25 | |
| Vertical | 2464 | 87.62 | -0.17 | -- | 87.45 | 114 | 26.55 | PK |
| | 4928 | 44.40 | 8.52 | -- | 52.92 | 74 | 21.08 | |
| | 7392 | 42.45 | 13.41 | -- | 55.86 | 74 | 18.14 | |
| | 9856 | 43.62 | 15.33 | -- | 58.95 | 74 | 15.05 | |
| | 2464 | 87.62 | -0.17 | 6.74 | 80.71 | 94 | 13.29 | AV |
| | 4928 | 44.40 | 8.52 | 6.74 | 46.18 | 54 | 7.82 | |
| | 7392 | 42.45 | 13.41 | 6.74 | 49.12 | 54 | 4.88 | |
| | 9856 | 43.62 | 15.33 | 6.74 | 52.21 | 54 | 1.79 | |

TEST ENGINEER: DIO YANG

| | | | | | |
|---|---|---|---|---|---|
| EUT | : | Remote Control | Temperature : | 22℃ |
| Model No. | : | SFD-NR-M003 | Humidity : | 57% RH |
| Serial No. | : | E2009040901 | Date of Test : | Apr 16, 2009 |
| Test Mode | | Transmitting Ch05<br>2468 MHz | | |

| Polarization | Frequency (MHz) | Read Level dB (μV) | Factor (dB/m) | Correction factor (dB) | Level dB (μV/m) | Limits dB (μV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|
| Horizontal | 2468 | 91.94 | -0.14 | -- | 91.80 | 114 | 22.20 | PK |
| | 4936 | 49.30 | 8.50 | -- | 57.80 | 74 | 16.20 | |
| | 7404 | 42.47 | 13.46 | -- | 55.93 | 74 | 18.07 | |
| | 9872 | 43.02 | 15.33 | -- | 58.35 | 74 | 15.65 | |
| | 2468 | 91.94 | -0.14 | 6.74 | 85.06 | 94 | 8.94 | AV |
| | 4936 | 49.30 | 8.50 | 6.74 | 51.06 | 54 | 2.94 | |
| | 7404 | 42.47 | 13.46 | 6.74 | 49.19 | 54 | 4.81 | |
| | 9872 | 43.02 | 15.33 | 6.74 | 51.61 | 54 | 2.39 | |
| Vertical | 2468 | 89.43 | -0.14 | -- | 89.29 | 114 | 24.71 | PK |
| | 4936 | 51.83 | 8.50 | -- | 60.33 | 74 | 13.67 | |
| | 7404 | 42.50 | 13.46 | -- | 55.96 | 74 | 18.04 | |
| | 9872 | 43.54 | 15.33 | -- | 58.87 | 74 | 15.13 | |
| | 2468 | 89.43 | -0.14 | 6.74 | 82.55 | 94 | 11.45 | AV |
| | 4936 | 51.83 | 8.50 | 6.74 | 53.59 | 54 | 0.41 | |
| | 7404 | 42.50 | 13.46 | 6.74 | 49.22 | 54 | 4.78 | |
| | 9872 | 43.54 | 15.33 | 6.74 | 52.13 | 54 | 1.87 | |

TEST ENGINEER: DIO YANG

| | | | | | |
|---|---|---|---|---|---|
| EUT | : | Remote Control | Temperature : | 22℃ |
| Model No. | : | SFD-NR-M003 | Humidity : | 57% RH |
| Serial No. | : | E2009040901 | Date of Test : | Apr 16, 2009 |
| Test Mode | | Transmitting Ch08<br>2471MHz | | |

| Polarization | Frequency (MHz) | Read Level dB (μV) | Factor (dB/m) | Correction factor (dB) | Level dB (μV/m) | Limits dB (μV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|
| Horizontal | 2471 | 93.59 | -0.14 | -- | 93.45 | 114 | 20.55 | PK |
| | 4942 | 49.64 | 8.51 | -- | 58.15 | 74 | 15.85 | |
| | 7413 | 42.18 | 13.46 | -- | 55.64 | 74 | 18.36 | |
| | 9884 | 44.08 | 15.36 | -- | 59.44 | 74 | 14.56 | |
| | 2471 | 93.59 | -0.14 | 6.74 | 86.71 | 94 | 7.29 | AV |
| | 4942 | 49.64 | 8.51 | 6.74 | 51.41 | 54 | 2.59 | |
| | 7413 | 42.18 | 13.46 | 6.74 | 48.90 | 54 | 5.10 | |
| | 9884 | 44.08 | 15.36 | 6.74 | 52.70 | 54 | 1.30 | |
| Vertical | 2471 | 87.60 | -0.14 | -- | 87.46 | 114 | 26.54 | PK |
| | 4942 | 51.66 | 8.51 | -- | 60.17 | 74 | 13.83 | |
| | 7413 | 42.3 | 13.46 | -- | 55.76 | 74 | 18.24 | |
| | 9884 | 43.78 | 15.36 | -- | 59.14 | 74 | 14.86 | |
| | 2471 | 87.60 | -0.14 | 6.74 | 80.72 | 94 | 13.28 | AV |
| | 4942 | 51.66 | 8.51 | 6.74 | 53.43 | 54 | 0.57 | |
| | 7413 | 42.3 | 13.46 | 6.74 | 49.02 | 54 | 4.98 | |
| | 9884 | 43.78 | 15.36 | 6.74 | 52.40 | 54 | 1.60 | |

TEST ENGINEER: DIO YANG

# 5 BANDWIDTH MEASUREMENT

## 5.1 Test Equipment

| Item | Type | Manufacturer | Model No. | Serial No. | Last Cal. | Next Cal. |
|---|---|---|---|---|---|---|
| 1. | Spectrum Analyzer | Agilent | E7405A | MY45106600 | May 19, 2008 | May 19,2009 |
| 2. | Horn Antenna | EMCO | 3115 | 9607-4878 | Apr 24, 2008 | Apr 24, 2009 |
| 3. | Preamplifier | HP | 8449B | 3008A00864 | May 19, 2008 | May 19,2009 |
| 4. | Software | Audix | E3 | SET00200 9912M295-2 | -- | -- |

## 5.2 Bandwidth Limit [FCC Part 15 Subpart C 15.231(c)]

Bandwidth is determined at the point 20dB down from the modulated carrier.

The 20dB bandwidth of the emission shall be contained within the frequency band designated in the rule section under which the equipment is operated.

## 5.3 Test Results

<PASS>

| Channel | Fundamental Frequency | 20dB Bandwidth $F_{end} - F_{start}$ | Bandwidth Limit ($F_{center}$ * 0.5%) | Result |
|---|---|---|---|---|
| 01 | 2464 MHz | 0.158 MHz | 12.32 MHz | Pass |
| 05 | 2468 MHz | 0.156 MHz | 13.24 MHz | Pass |
| 08 | 2471 MHz | 0.156 MHz | 12.36 MHz | Pass |

All the test results are attached in next pages.

| Channel | Fundamental Frequency | Pages |
|---|---|---|
| 01 | 2464 MHz | P21 |
| 05 | 2468 MHz | P22 |
| 08 | 2471 MHz | P23 |

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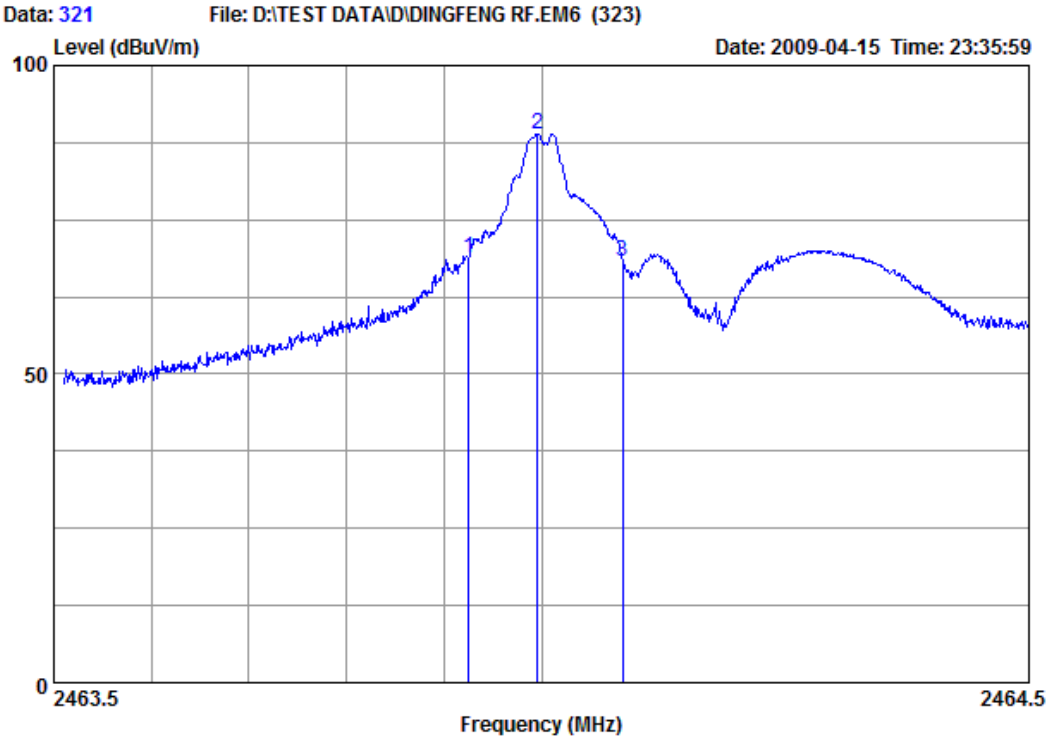
audixaci@audix.com




Site no : Audix ACI (3m Chamber)
Dis. / Ant. : 3m /EMCO3115

Env. / Ins. : 22'C 51% / E7405A
EUT : remote control
M/N : SFD-NR-M003
S/N : E2009040901
Power Rating: DC 4.5V
Test Mode : CH1 2464MHz

Data no. : 321

Ant. pol. : HORIZONTAL
Engineer : Dio

| | Freq. (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV/m) |
|---|---|---|---|---|---|
| 1 | 2463.925 | 29.09 | 5.98 | 69.03 | 68.86 |
| 2 | 2463.996 | 29.09 | 5.98 | 89.14 | 88.97 |
| 3 | 2464.083 | 29.09 | 5.98 | 68.54 | 68.37 |

Remark: Emission Level= Antenna Factor + Cable Loss + Reading.

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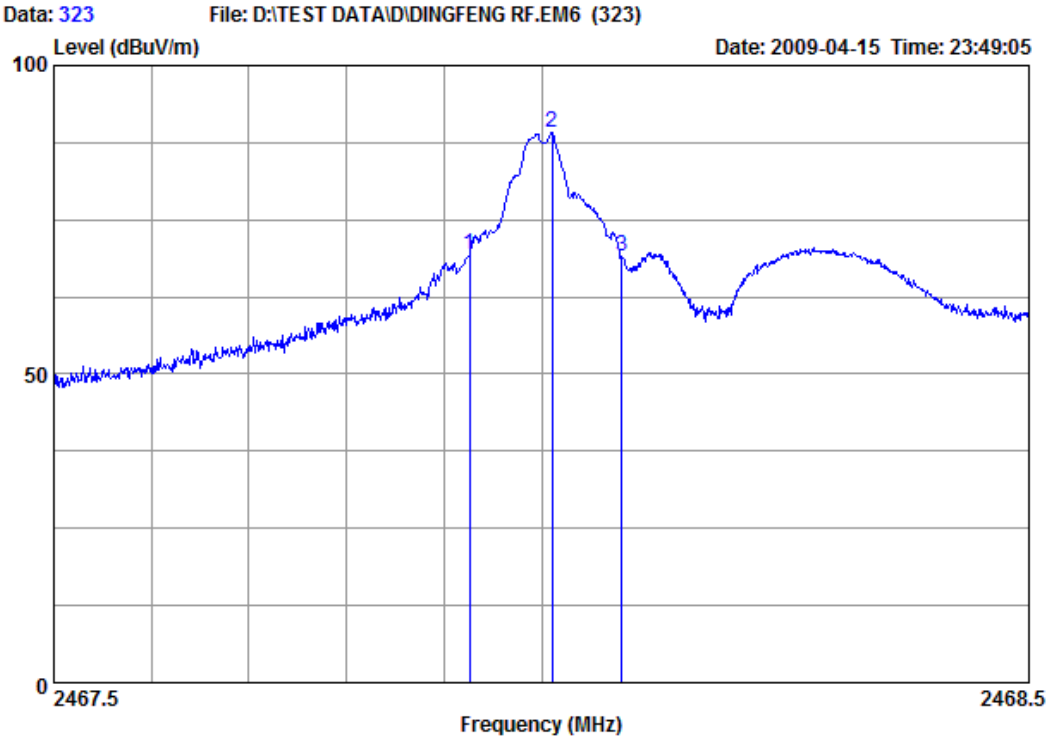


Site no : Audix ACI (3m Chamber)
Dis. / Ant. : 3m /EMCO3115

Env. / Ins. : 22'C 51% / E7405A
EUT : remote control
M/N : SFD-NR-M003
S/N : E2009040901
Power Rating: DC 4.5V
Test Mode : CH5 2468MHz

Data no. : 323

Ant. pol. : HORIZONTAL
Engineer : Dio

| | Freq. (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV/m) |
|---|---|---|---|---|---|
| 1 | 2467.926 | 29.11 | 5.98 | 69.42 | 69.28 |
| 2 | 2468.011 | 29.11 | 5.98 | 89.19 | 89.05 |
| 3 | 2468.082 | 29.11 | 5.98 | 69.20 | 69.06 |

Remark: Emission Level= Antenna Factor + Cable Loss + Reading.

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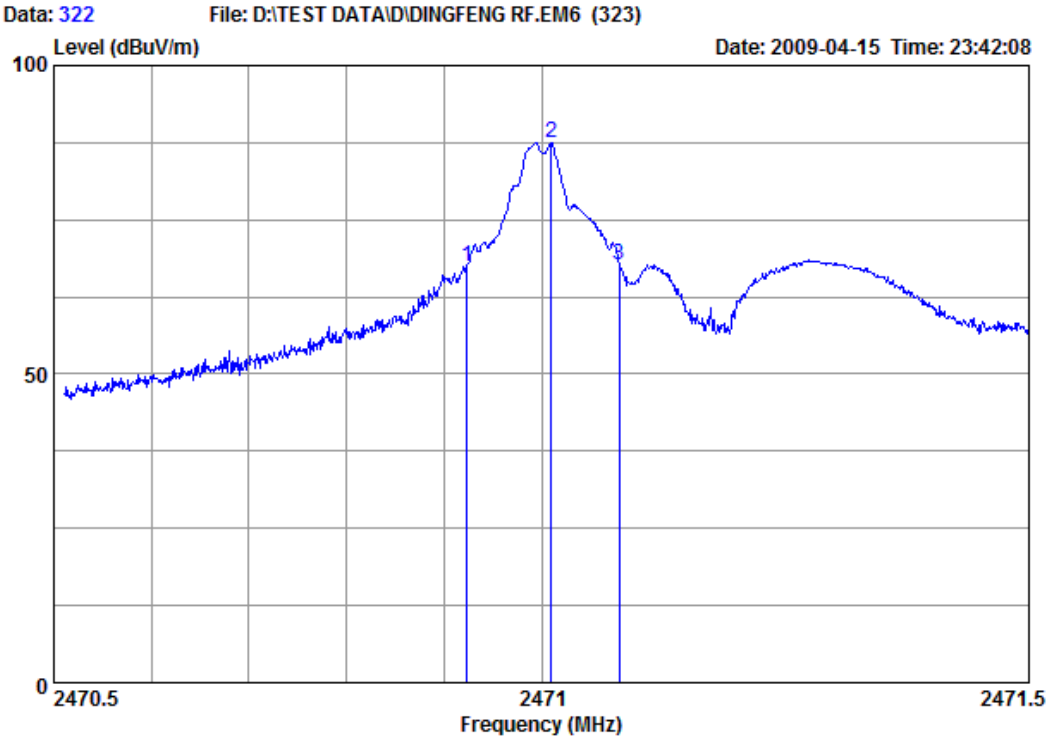


Site no : Audix ACI (3m Chamber)
Dis. / Ant. : 3m /EMCO3115

Env. / Ins. : 22'C 51% / E7405A
EUT : remote control
M/N : SFD-NR-M003
S/N : E2009040901
Power Rating: DC 4.5V
Test Mode : CH11 2471MHz

Data no. : 322

Ant. pol. : HORIZONTAL
Engineer : Dio

| | Freq. (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV/m) |
|---|---|---|---|---|---|
| 1 | 2470.924 | 29.11 | 5.98 | 67.49 | 67.35 |
| 2 | 2471.010 | 29.11 | 5.98 | 87.57 | 87.43 |
| 3 | 2471.080 | 29.11 | 5.98 | 67.71 | 67.57 |

Remark: Emission Level= Antenna Factor + Cable Loss + Reading.

# 6 BAND-EDGE MEASUREMENT

## 6.1 Test Equipment

| Item | Type | Manufacturer | Model No. | Serial No. | Last Cal. | Next Cal. |
|---|---|---|---|---|---|---|
| 1. | Spectrum Analyzer | Agilent | E7405A | MY45106600 | May 19, 2008 | May 19,2009 |
| 2. | Horn Antenna | EMCO | 3115 | 9607-4878 | Apr 24, 2008 | Apr 24, 2009 |
| 3. | Preamplifier | HP | 8449B | 3008A00864 | May 19, 2008 | May 19,2009 |

## 6.2 Band-Edge Limit [FCC Part 15 Subpart C 15.249(d)]

Emissions radiated outside of the specified frequency bands, except for harmonic, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209 whichever is the lesser attenuation.

## 6.3 Test Results

<PASS>

All the test results are attached in next pages.

| Channel | Fundamental Frequency | Pages |
|---|---|---|
| 01 | 2464 MHz | P25-26 |
| 08 | 2471 MHz | P27-28 |

NOTE 1 – PK Level = Read Level + Factor
AV Level = PK Level – Correction Factor.
NOTE 2 - Factor = Antenna Factor + Cable Loss - Preamp Factor
NOTE 3 - Correction factor is measured as follows:

| |
|---|
| Duty Cycle x = Tx on / (Tx on + Tx off) = 7.145 / 15.651 = 0.46 |
| Correction Factor = \|20log(Duty Cycle)\| = 6.74 dB |

NOTE 4 – The duty cycle was calculated according to the plot in Appendix I

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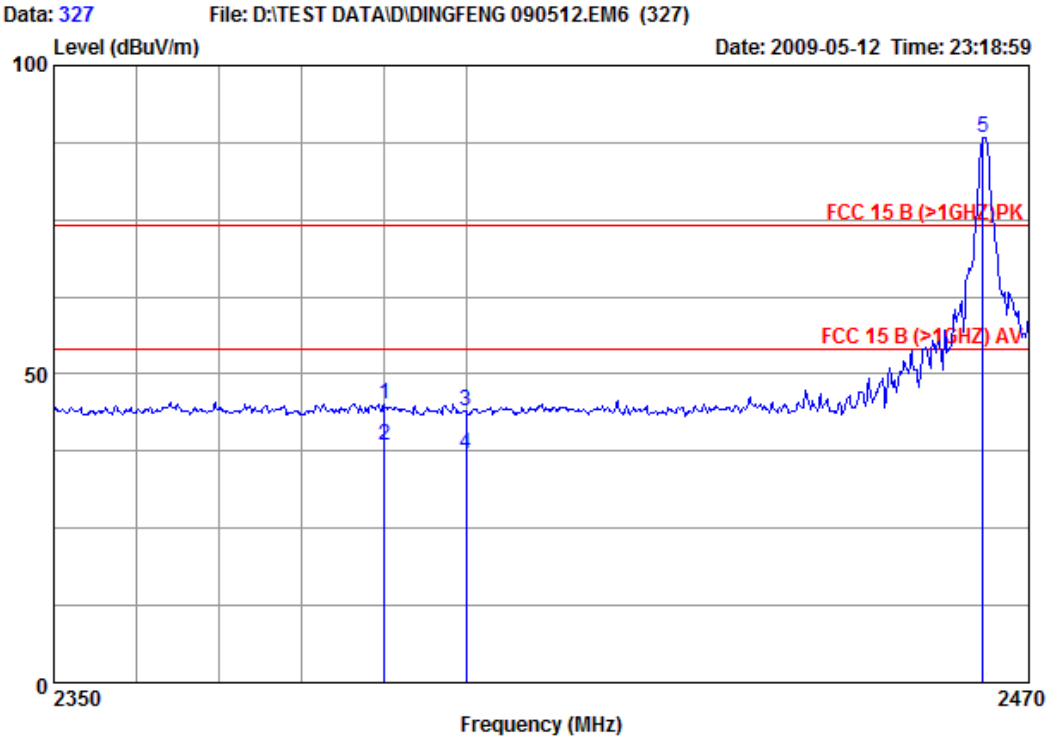
audixaci@audix.com




Site no : Audix ACI (3m Chamber) Data no. : 327
Dis. / Ant. : 3m /EMCO3115
Limit : FCC 15 B (>1GHZ)PK Ant. pol. : HORIZONTAL
Env. / Ins. : 22'C 51% / E7405A Engineer : Dio
EUT : Remote Control
M/N : SFD-NR-M003
S/N : E2009040901
Power Rating: DC 4.5V
Test Mode : Transmitting Ch01 2464MHz

| | Freq. (MHz) | Antenna Factor (dB/m) | Preamp Factor (dB) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2390.000 | 28.86 | 35.30 | 5.93 | 45.68 | 45.17 | 74.00 | 28.83 | Peak |
| 2 | 2390.000 | 28.86 | 35.30 | 5.93 | 38.94 | 38.43 | 54.00 | 15.57 | Average |
| 3 | 2400.000 | 28.91 | 35.30 | 5.94 | 44.37 | 43.92 | 74.00 | 30.08 | Peak |
| 4 | 2400.000 | 28.91 | 35.30 | 5.94 | 37.63 | 37.18 | 54.00 | 16.82 | Average |
| 5 | 2464.240 | 29.09 | 35.24 | 5.98 | 88.37 | 88.20 | 74.00 | -14.20 | Peak |

Remarks: Emission Level= Antenna Factor + Cable Loss - Preamp Factor + Reading.

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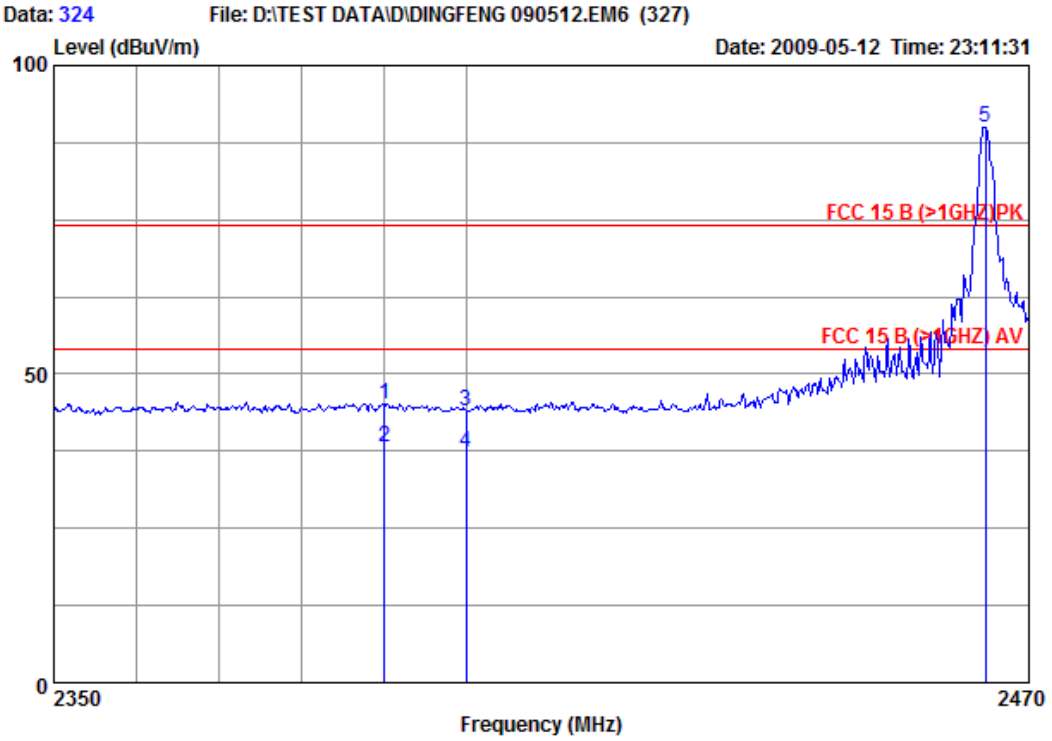
audixaci@audix.com




Site no : Audix ACI (3m Chamber) Data no. : 324
Dis. / Ant. : 3m /EMCO3115
Limit : FCC 15 B (>1GHZ) PK Ant. pol. : VERTICAL
Env. / Ins. : 22'C 51% / E7405A Engineer : Dio
EUT : Remote Control
M/N : SFD-NR-M003
S/N : E2009040901
Power Rating: DC 4.5V
Test Mode : Transmitting Ch01 2464MHz

| | Freq. (MHz) | Antenna Factor (dB/m) | Preamp Factor (dB) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2390.000 | 28.86 | 35.30 | 5.93 | 45.55 | 45.04 | 74.00 | 28.96 | Peak |
| 2 | 2390.000 | 28.86 | 35.30 | 5.93 | 38.81 | 38.30 | 54.00 | 15.70 | Average |
| 3 | 2400.000 | 28.91 | 35.30 | 5.94 | 44.47 | 44.02 | 74.00 | 29.98 | Peak |
| 4 | 2400.000 | 28.91 | 35.30 | 5.94 | 37.73 | 37.28 | 54.00 | 16.72 | Average |
| 5 | 2464.480 | 29.09 | 35.24 | 5.98 | 90.21 | 90.04 | 74.00 | -16.04 | Peak |

Remarks: Emission Level= Antenna Factor + Cable Loss - Preamp Factor + Reading.

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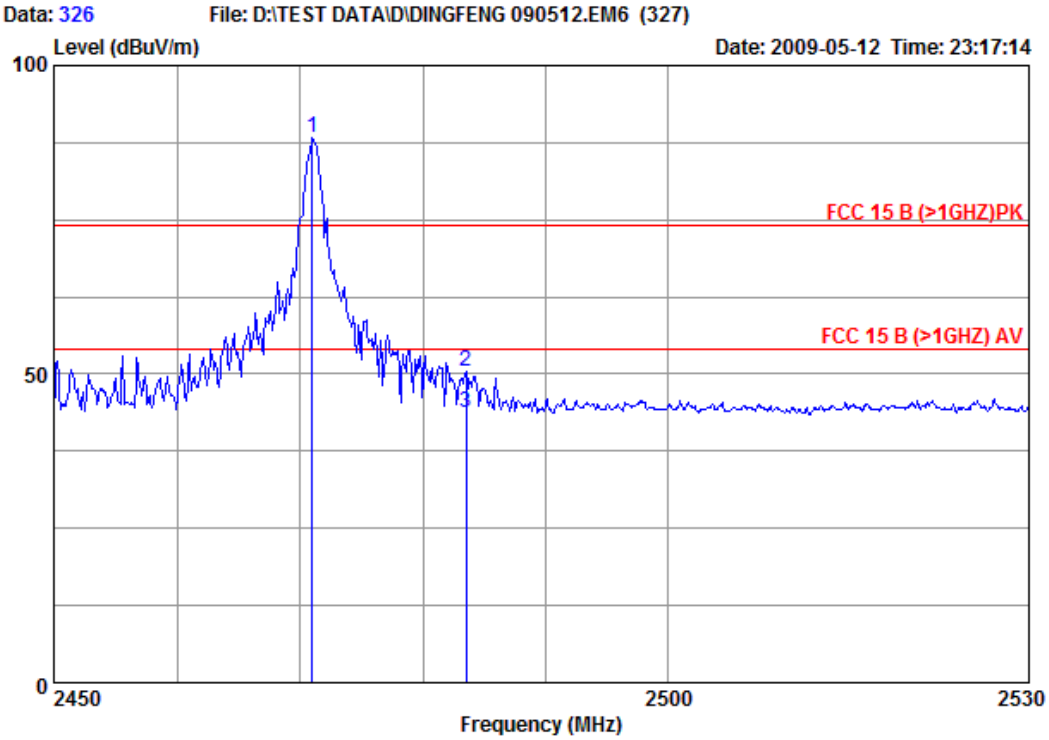


Site no : Audix ACI (3m Chamber) Data no. : 326
Dis. / Ant. : 3m /EMCO3115
Limit : FCC 15 B (>1GHZ) PK Ant. pol. : HORIZONTAL
Env. / Ins. : 22'C 51% / E7405A Engineer : Dio
EUT : Remote Control
M/N : SFD-NR-M003
S/N : E2009040901
Power Rating: DC 4.5V
Test Mode : Transmitting Ch08 2471MHz

| | Freq. (MHz) | Antenna Factor (dB/m) | Preamp Factor (dB) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2470.960 | 29.11 | 35.23 | 5.98 | 88.38 | 88.24 | 74.00 | -14.24 | Peak |
| 2 | 2483.500 | 29.15 | 35.22 | 5.99 | 50.46 | 50.38 | 74.00 | 23.62 | Peak |
| 3 | 2483.500 | 29.15 | 35.22 | 5.99 | 43.72 | 43.64 | 54.00 | 10.36 | Average |

Remarks: Emission Level= Antenna Factor + Cable Loss - Preamp Factor + Reading.

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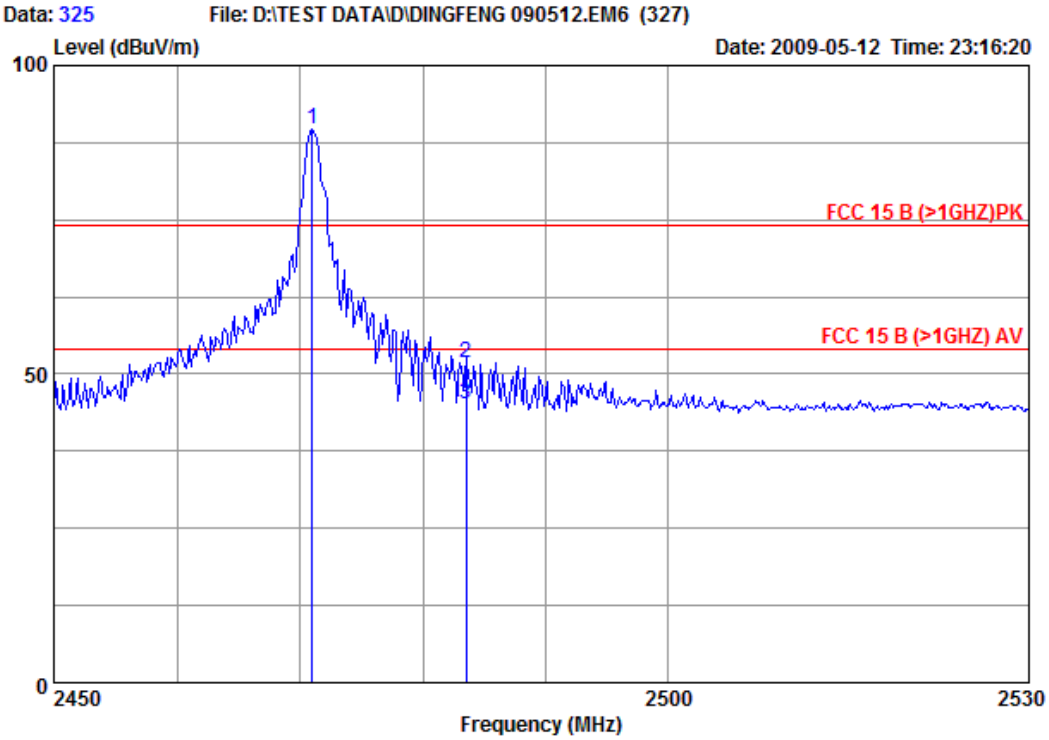



Site no : Audix ACI (3m Chamber) Data no. : 325
Dis. / Ant. : 3m /EMCO3115
Limit : FCC 15 B (>1GHZ)PK Ant. pol. : VERTICAL
Env. / Ins. : 22'C 51% / E7405A Engineer : Dio
EUT : Remote Control
M/N : SFD-NR-M003
S/N : E2009040901
Power Rating: DC 4.5V
Test Mode : Transmitting Ch08 2471MHz

| | Freq. (MHz) | Antenna Factor (dB/m) | Preamp Factor (dB) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2470.960 | 29.11 | 35.23 | 5.98 | 89.73 | 89.59 | 74.00 | -15.59 | Peak |
| 2 | 2483.500 | 29.15 | 35.22 | 5.99 | 51.94 | 51.86 | 74.00 | 22.14 | Peak |
| 3 | 2483.500 | 29.15 | 35.22 | 5.99 | 45.20 | 45.12 | 54.00 | 8.88 | Average |

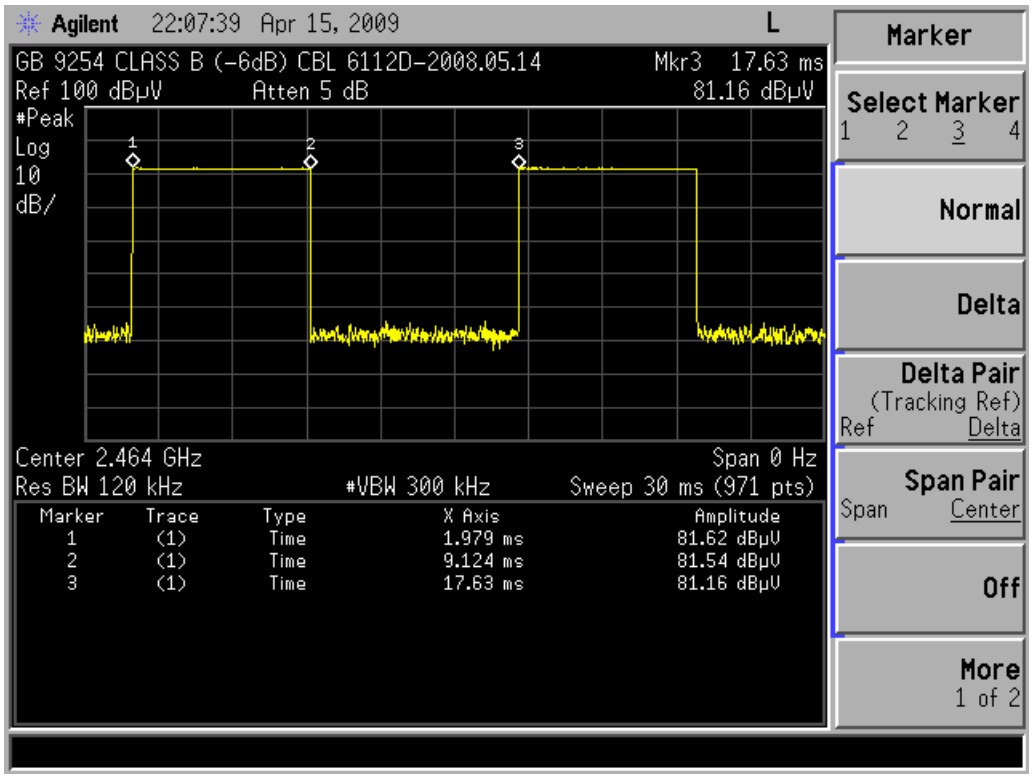
Remarks: Emission Level= Antenna Factor + Cable Loss - Preamp Factor + Reading.

# 7 DEVIATION TO TEST SPECIFICATIONS

None.

# APPENDIX I

PLOT OF DUTY CYCLE


Agilent 22:07:39 Apr 15, 2009
L
GB 9254 CLASS B (-6dB) CBL 6112D-2008.05.14
Mkr3 17.63 ms
Ref 100 dBµV
Atten 5 dB
81.16 dBµV
#Peak
Log
10
dB/
Center 2.464 GHz
Span 0 Hz
Res BW 120 kHz
#VBW 300 kHz
Sweep 30 ms (971 pts)
Marker Trace Type X Axis Amplitude
1 (1) Time 1.979 ms 81.62 dBµV
2 (1) Time 9.124 ms 81.54 dBµV
3 (1) Time 17.63 ms 81.16 dBµV
Marker
Select Marker
1 2 3 4
Normal
Delta
Delta Pair
(Tracking Ref)
Ref Delta
Span Pair
Span Center
Off
More
1 of 2

*DUTY CYCLE*