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FEDERAL COMMUNICATIONS COMMISSION Registration Number: 125782

INDUSTRY CANADARegistration Number: IC4986

FCC TEST REPORT

Under FCC 15 Subpart C, Paragraph 15.249: 2007

Prepared For:

Dongguan Xianghui Electronic Co., Ltd.

Xiangxi Industrial Zone, Shipai Town, Dongguan, Guangdong, China.

FCC ID: V69DS-S242-2HTX

EUT: Wireless Headphone

Model: DS-S242-2HTX

April 7, 2008

Report Type: Original Report

Test Engineer: <u>Jacky Huang</u>

Test Date: March 28, 2008

Review By:

Apollo Liu / Manager

The test report consists 26 pages in total. It may be duplicated completely for legal use with the allowance of the applicant. It shall not be reproduced except in full, without the written approval of Ke Mei Ou Laboratory Corporation. The test result in the report only applied to the tested sample.

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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

SinTek Laboratory Co., Ltd.

No.7, Xinshidai Induatrial, Guantian Village, Shiyan Town, Bao'an District, Shenzhen, Guangdong China..

Tel: +86 755 27608353 Fax: +86 755 27608359

Site on File with the Federal Communications Commission - United Sates

Registration Number: 963441

1. 3 Details of Applicant

Name : Dongguan Xianghui Electronic Co., Ltd.

Address : Xiangxi Industrial Zone, Shipai Town, Dongguan, Guangdong, China.

Contact : Liao Yunzhong / Quality Manager

Tel : 0769-86516663 Fax : 0769-86512913

1. 4 Application Details

Date of Receipt of Application : March 21, 2008 Date of Receipt of Test Item : March 28, 2008

Date of Test : March 28~March 31, 2008

1. 5 Test Item

Manufacturer : Same Applicant Address : Same Applicant

Trade Name : N/A

Model No. : DS-S242-2HTX, DS-S242-02TX, DS-FM2098TX, DS-FM198TX,

DS-FM1082TX, DS-FM1083TX, DS-FM3098TX, DS-RF863ATX, DS-RF863BTX, DS-RF863DTX, DS-IR0518TX, DS-IR0618TX,

DS-AH118TX, DS-AH188CTX, DS-AH199TX

Description : Wireless Headphone

Additional Information

Frequency : 2400MHz---2483.5MHz

Number of Channels : N/A
Power Supply : DC 5V
Operation Distance : N/A
Resolution : FM

1. 6 Test Standards

FCC 15 Subpart C, Paragraph 15.249: 2007

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 15.203 | Antenna Requirement | PASS | Complies |
| FCC Part 15, Paragraph 15.207 | Conducted Test | N/A | Complies |
| FCC Part 15 Subpart C Paragraph 15.249(a) and 15.249(b) Limit | Field Strength of Fundamental | PASS | Complies |
| FCC Part 15, Paragraph 15.209 | Radiated Test | PASS | Complies |
| FCC Part 15 Subpart C Paragraph 15.249(d) Limit | Measured Band Edges | PASS | Complies. |

3. EUT ModificationsNo modification by SinTek Laboratory Co., Ltd.

4. Conducted Power Line Test

4. 1 Test Equipment

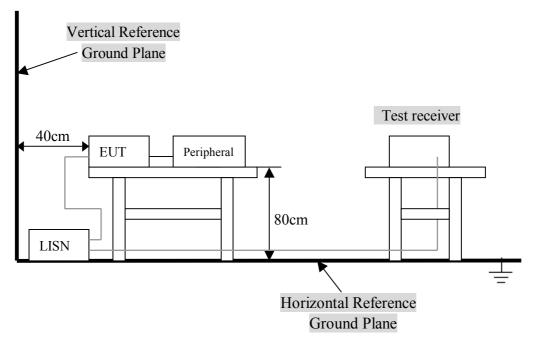
Please refer to Section 10 this report.

4. 2 Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination.

Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission., the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4:2003 on conducted measurement. Conducted emissions were invested over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

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 C63.4-2003. EUT was used DC5V. The operation frequency is from 2400MHz~2483.5MHz. Enable the signal transmitted from the external antenna from EUT to receiver. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

- 1) Below 1GHz, the channel low, middle, high were pre-tested, The channel high, worst case one, was chosen for conducted and radiated emission test.
- 2) Above 1GHz, the channel low, middle, high were tested individually.

A. EUT

| Device | Manufacturer | Model # | FCC ID |
|--------------------|---|--------------|-----------------|
| Wireless Headphone | Dongguan Xianghui Electronic Co., Ltd. | DS-S242-2HTX | V69DS-S242-2HTX |

B. Internal Devices

| Device | Manufacturer | Model # | FCC ID |
|--------|--------------|---------|--------|
| N/A | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

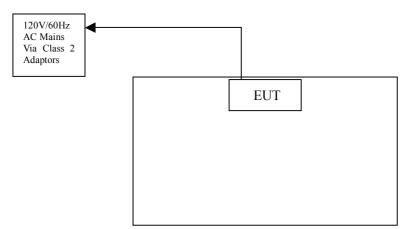
C. Peripherals

| 2. 1 cm phot and | | | | | | | | | |
|------------------|---------------------|----------|----------------|-----------------------------|--|--|--|--|--|
| Device | Device Manufacturer | | FCC ID/ DoC | Cable | | | | | |
| Printer | HP | HP930C | DoC | 1.5m unshielded power cord | | | | | |
| Time | 111 | 111 7500 | Doc | 1.2m unshielded data cable. | | | | | |
| Modem | GVC | N/A | DoC | 1.5m unshielded power cord | | | | | |
| Wiodein | dve | IN/A | Doc | 1.2m unshielded data cable. | | | | | |
| Notebook | DELL | PP10L | DoC | 1.5m unshielded power cord | | | | | |
| PC | Dell | 2400n | DoC | 1.5m unshielded power cord | | | | | |

4. 5 EUT Operating Condition

Operating condition is according to ANSI C63.4 - 2003.

- A. Setup the EUT and simulators as shown on follow.
- B. Enable RF signal and confirm EUT active.
- D. Modulate output capacity of EUT up to specification.



4. 6 Conducted Power Line Emission Limits

| FCC 15.207 (dBuV) | | | | | | | | |
|---|-------|-------------|--|--|--|--|--|--|
| Frequency Range Class A Class B OP/AV OP/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

The frequency spectrum from 0.15 MHz to 30 MHz was investigated. All readings are quasi -peak values with a resolution bandwidth of 9 KHz.

Temperature : 26 °C
Humidity : 53 % RH
Result : Not Applicable

| | EN55022 Class B | | | | | | | | | | |
|--------------------|--------------------------|--|------------------|-----|--|----------------------|--|--|--|--|--|
| Frequency (MHz) | Emission (dBuV) QP AV | | LINE/ NEUTRAL | . , | | Margin (dB) QP AV | | | | | |
| - | | | LINE | | | | | | | | |
| - | | | NEUTRAL | | | | | | | | |
| - | | | LINE | | | | | | | | |
| - | | | NEUTRAL | | | | | | | | |
| - | | | LINE | | | | | | | | |
| - | | | NEUTRAL | | | | | | | | |

Note: NF = No Significant Peak was Found.

Remarks:

- 1.Uncertainty in conducted emission measured is <+/ -2dB.
- 2.QP and AV are abbreviations of quasi-peak and average individually.
- 3. The emission levels of other frequencies were very low against the limit.
- 4. The Quasi-peak emission level also meets average limit and measurement with the average detector is unnecessary.
- 5.Margin Value= Emission Level Limit Value.

5. Radiated Emission Test

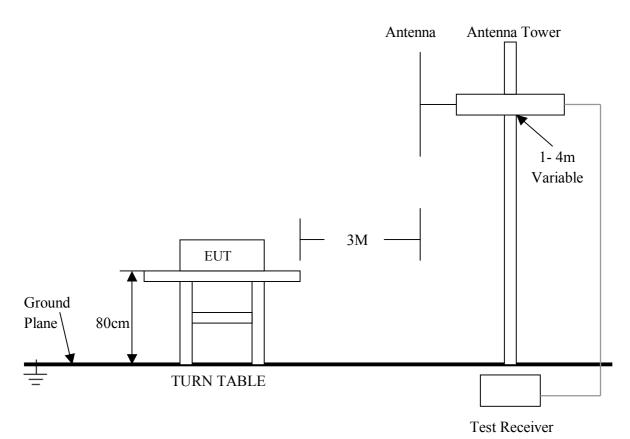
5. 1 Test Equipment

Please refer to Section 10 this report.

5. 2 Test Procedure

- 1. The EUT was tested according to ANSI C63.4 2003.
- 2. The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high <u>0.8</u> m. All set up is according to ANSI C63.4-2003.
- 3. The frequency spectrum from $\underline{30}$ MHz to $\underline{1}$ GHz was investigated. All readings from $\underline{30}$ MHz to $\underline{1}$ GHz are quasi-peak values with a resolution bandwidth of $\underline{120}$ KHz. All readings are above $\underline{1}$ GHz, peak values with a resolution bandwidth of $\underline{1}$ MHz. Measurements were made at $\underline{3}$ meters.
- 4. The antenna high is varied from $\underline{1}$ m to $\underline{4}$ 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 15.249(a) Limit

| Fundamental Frequency | Field Streng | th of Fundame | ntal (3m) | Field Strength of Harmonics (3m) | | | |
|--------------------------|--------------|---------------|-----------|----------------------------------|-------------|----------|--|
| (MHz) | mV/m | dBuV/m | | uV/m | dBuV/m | | |
| 902~928 | 50 | 94(Average) | 114(Peak) | 500 | 54(Average) | 74(Peak) | |
| 2400~2483.5 | 50 | 94(Average) | 114(Peak) | 500 | 54(Average) | 74(Peak) | |

Note:

- (1) RF Voltage (dBuV) = 20 log RF Voltage (uV)
- (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.
- (3) The emission limit in this paragraph is based on measurement instrumentation employing an average detector. Measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit.

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

| Frequency (MHz) | Distance (m) | Field Strength (dBuV/m) |
|-----------------|--------------|-------------------------|
| 30 - 88 | 3 | 40.0 |
| 88 - 216 | 3 | 43.5 |
| 216 - 960 | 3 | 46.0 |
| ABOVE 960 | 3 | 54.0 |

Note:

- (1) RF Voltage (dBuV) = $20 \log RF$ Voltage (uV)
- (2) In the Above Table, the tighter limit applies at the band edges.
- (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.

5. 7 Radiated Emission Test Result

A. Fundamental Radiated Emission Data

Product : Wireless Headphone Test Mode : CH Low ~ CH High

Test Item : Fundamental Radiated Emission Data Temperature : 25 $^{\circ}$ C Test Voltage : DC 5V(Power by Class 2 Adaptor) Humidity : 56%RH

Test Result : PASS

Headphone

CH Low

| Freq. (GHz) | Emission (dBuV/m) Peak / Average | | HORIZ /VERT | Limits (dBuV/m) Peak / Average | | Margin (dB) Peak / Average | |
|----------------|-------------------------------------|-------|----------------|-----------------------------------|-------|-------------------------------|--------|
| 2404.00 | 67.58 | 60.83 | HORIZ | 114.00 | 94.00 | -46.42 | -33.17 |
| 2404.00 | 62.03 | 49.56 | VERT | 114.00 | 94.00 | -51.97 | -44.44 |

CH Mid

| | Freq. (GHz) | Emission (dBuV/m) Peak / Average | | HORIZ /VERT | ` | Limits (dBuV/m) Peak / Average | | Margin (dB) Peak / Average | |
|---|----------------|-------------------------------------|-------|----------------|--------|-----------------------------------|--------|-------------------------------|--|
| Ī | 2442.00 | 67.42 | 59.67 | HORIZ | 114.00 | 94.00 | -46.58 | -34.33 | |
| I | 2442.00 | 63.16 | 49.84 | VERT | 114.00 | 94.00 | -50.84 | -44.16 | |

CH High

| Freq. (GHz) | Emission (dBuV/m) Peak / Average | | HORIZ /VERT | Limits (dBuV/m) Peak / Average | | Margin (dB) Peak / Average | |
|----------------|-------------------------------------|-------|----------------|-----------------------------------|-------|-------------------------------|--------|
| 2480.00 | 71.35 | 63.78 | HORIZ | 114.00 | 94.00 | -42.65 | -30.22 |
| 2480.00 | 65.70 | 56.80 | VERT | 114.00 | 94.00 | -48.30 | -37.20 |

Note:

- (1) All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
- (2) Emission Level = Reading Level + Probe Factor + Cable Loss.
- (3) The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

B. Harmonics Radiated Emission Data

Product : Wireless Headphone Test Mode : CH Low ~ CH High

Test Item : Fundamental Radiated Emission Data Temperature : 25 °C Test Voltage : DC 5V(Power by Class 2 Adaptor) Humidity : 56%RH

Test Result : PASS

Headphone

CH Low

| Freq. | Emission (dBuV/m) | HORIZ / | Limits (dBuV/m) | Margin |
|----------|-------------------|---------|-----------------|--------|
| (MHz) | Peak Detector | VERT | Peak / Average | (dB) |
| 4808.00 | 49.22 | HORZ | 74.0 / 54.0 | -24.78 |
| 4808.00 | 48.01 | VERT | 74.0 / 54.0 | -25.99 |
| 7212.00 | 48.87 | HORZ | 74.0 / 54.0 | -25.13 |
| 7212.00 | 46.77 | VERT | 74.0 / 54.0 | -27.23 |
| 24040.00 | 49.13 | HORZ | 74.0 / 54.0 | -24.87 |
| 24040.00 | 47.68 | VERT | 74.0 / 54.0 | -26.32 |

CH Mid

| Freq. (MHz) | Emission (dBuV/m) Peak Detector | HORIZ / VERT | Limits (dBuV/m) Peak / Average | Margin (dB) |
|----------------|------------------------------------|-----------------|-----------------------------------|----------------|
| 4884.00 | 49.94 | HORZ | 74.0 / 54.0 | -24.06 |
| 4884.00 | 47.82 | VERT | 74.0 / 54.0 | -26.18 |
| 7326.00 | 48.37 | HORZ | 74.0 / 54.0 | -25.63 |
| 7326.00 | 46.52 | VERT | 74.0 / 54.0 | -27.48 |
| 24420.00 | 49.01 | HORZ | 74.0 / 54.0 | -24.99 |
| 24420.00 | 47.66 | VERT | 74.0 / 54.0 | -26.34 |

CH High

| Freq. (MHz) | Emission (dBuV/m) Peak Detector | HORIZ / VERT | Limits (dBuV/m) Peak / Average | Margin (dB) |
|----------------|------------------------------------|-----------------|-----------------------------------|----------------|
| 4960.00 | 50.04 | HORZ | 74.0 / 54.0 | -23.96 |
| 4960.00 | 48.82 | VERT | 74.0 / 54.0 | -25.18 |
| 7440.00 | 49.13 | HORZ | 74.0 / 54.0 | -24.87 |
| 7440.00 | 47.65 | VERT | 74.0 / 54.0 | -26.35 |
| 24800.00 | 48.79 | HORZ | 74.0 / 54.0 | -25.21 |
| 24800.00 | 46.93 | VERT | 74.0 / 54.0 | -27.07 |

C. General Radiated Emission Data

Test Result : PASS

Test Result
Headphone
CH High

| Freq. (MHz) | Emission (dBuV/m) QP Detector | HORIZ / VERT | Limits (dBuV/m) | Margin (dB) |
|----------------|----------------------------------|-----------------|--------------------|----------------|
| 46.40 | 15.93 | HORZ | 40.0 | -24.07 |
| 61.44 | 15.04 | VERT | 40.0 | -24.96 |
| 153.16 | 24.77 | HORZ | 43.5 | -18.73 |
| 139.96 | 21.07 | VERT | 43.5 | -22.43 |
| 305.64 | 20.97 | HORZ | 46.0 | -25.03 |

6. Band Edge

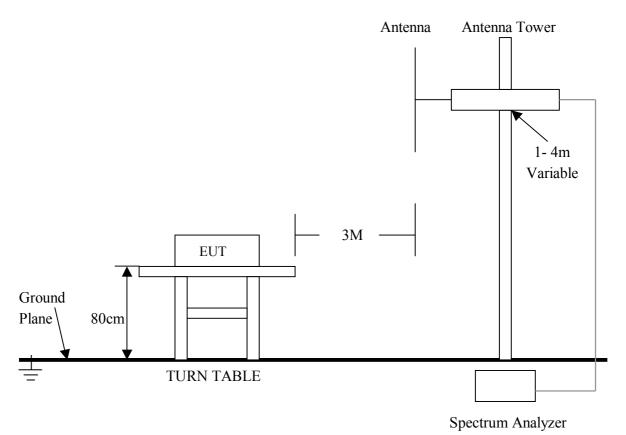
6. 1 Test Equipment

Please refer to Section 10 this report.

6. 2 Test Procedure

- 1. The EUT was tested according to ANSI C63.4 2003.
- 2. The EUT, peripherals were put on the turntable which table size is $1 \text{m} \times 1.5 \text{ m}$, table high $\underline{0.8} \text{ m}$. All set up is according to ANSI C63.4-2003.

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 15.249(d) Limit

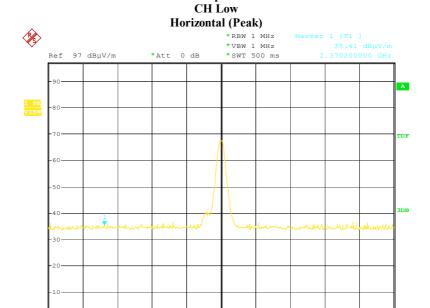
In any 100kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 50dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

6. 7 Band Edge Test Result

Product : Wireless Headphone Test Mode : CH Low ~ CH High

Test Item : General Radiated Emission Data Temperature : 25 °C
Test Voltage : DC 5V (Power by battery) Humidity : 56%RH

Test Result : PASS



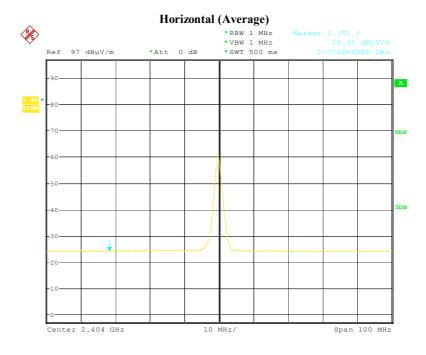
10 MHz/

Headphone

Date: 31.MAR.2008 17:30:52

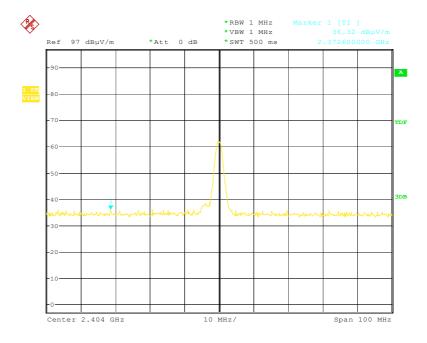
Center 2.404 GHz

Span 100 MHz

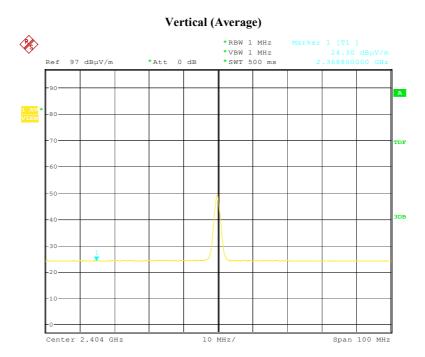


Date: 31.MAR.2008 17:20:37

Vertical (Peak)



Date: 31.MAR.2008 17:14:27

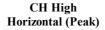


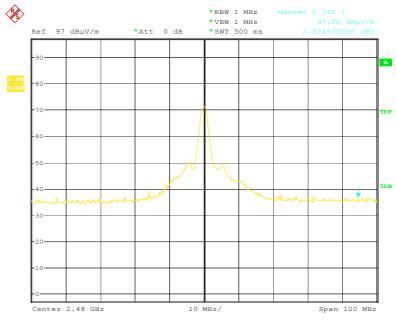
Date: 31.MAR.2008 17:18:42

31.MAR.2008 17:06:46

Note:

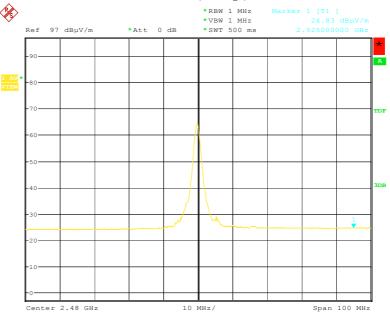
- (1) The field strength of any emissions which appear outside of this band shall not exceed the general radiated emission limits in Section 15.209.
- (2) The average measurement was not performed when the peak measured data under the limit of average detection.





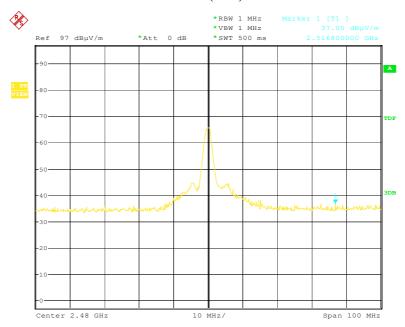
Date:

Horizontal (Average)

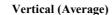


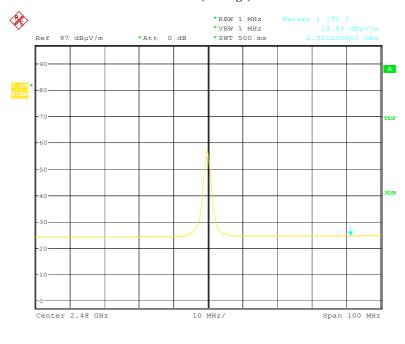
Date: 31.MAR.2008 17:08:23

Vertical (Peak)



Date: 31.MAR.2008 17:11:45





Date: 31.MAR.2008 17:09:16

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. Antenna Requirement

According to 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 EUT no antenna connector for printed antenna. Therefore the EUT complies with Section 15.203 of the FCC rules.

8. Photos of Testing

8. 1 EUT Test Photographs





8. 2 EUT Detailed Photographs

Headphone EUT top view

DS-S242-2HTX



DS-FM198TX



DS-FM1082TX



DS-FM2098TX



DS-S242-02TX



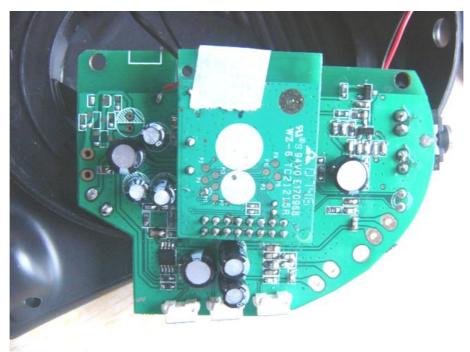
Headphone EUT inside whole view

DS-S242-2HTX

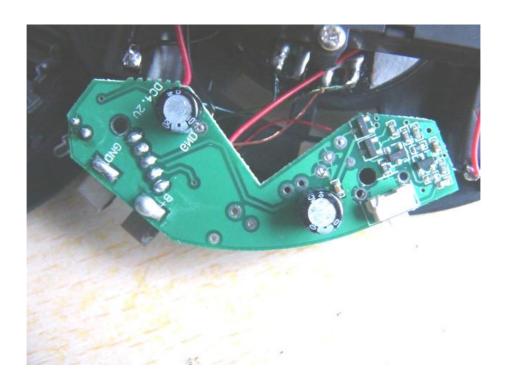


Main board component side

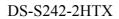
DS-S242-2HTX

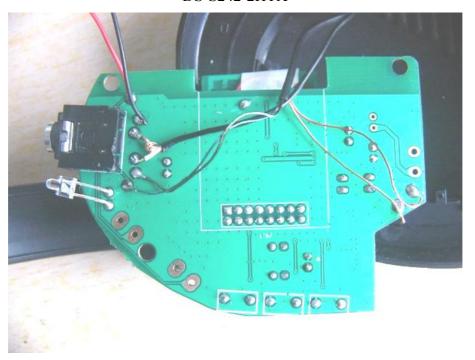


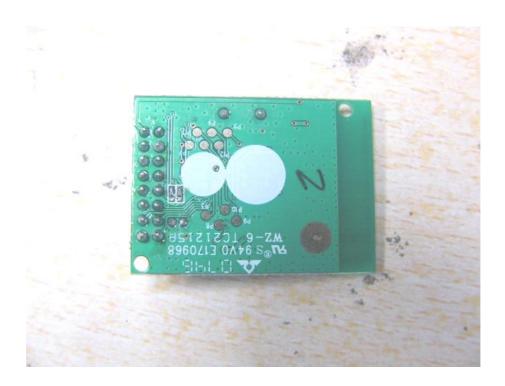


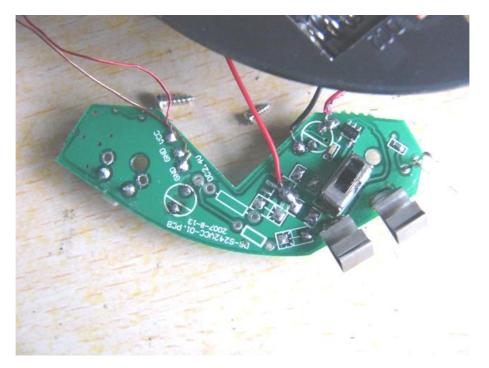


Main board solder side









9. FCC ID Label

FCC ID: V69DS-S242-2HTX

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



10. 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 | SinTek | N/A | N/A | NCR | NCR |
| Antenna Tower | SinTek | N/A | N/A | NCR | NCR |
| OATS | SinTek | N/A | N/A | Oct. 9, 2007 | Oct. 9, 2010 |
| EMI Test Receiver | Rohde & Schwarz | ESPI7 | 100013 | July 9, 2007 | July 9, 2008 |
| Spectrum Analyzer | Rohde & Schwarz | FSP40 | 100273 | Sep.18, 2007 | Sep.18, 2008 |
| Signal Generator | FLUKE | PM5418+Y/C | LO747012 | Feb.10, 2008 | Feb.10, 2009 |
| Signal Generator | FLUKE | PM5418TX | LO738007 | Feb.10, 2008 | Feb.10, 2009 |
| Loop Antenna | SCHWARZBECK | FMZB1516 | 113 | Jan. 30, 2008 | Jan. 30, 2009 |
| Loop Antenna | Rohde & Schwarz | HFH2-Z2 | 872096/16 | Jan. 30, 2008 | Jan. 30, 2009 |
| Trilog-Super Broadband Antenna | SCHWARZBECK | VULB9161 | 9161-4079 | Sep.18, 2007 | Sep.18, 2008 |
| Trilog-Super Broadband Antenna | SCHWARZBECK | VULB9161 | 9161-4080 | Sep.18, 2007 | Sep.18, 2008 |
| Broad-Band Horn Antenna | SCHWARZBECK | BBHA 9120D | 9120D-564 | Sep.18, 2007 | Sep.18, 2008 |
| Broad-Band Horn Antenna | SCHWARZBECK | BBHA 9120D | 9120D-565 | Sep.18, 2007 | Sep.18, 2008 |
| AMN | Rohde & Schwarz | ESH3-Z5 | 100196 | Oct. 23, 2007 | Oct. 23, 2008 |
| AMN | Rohde & Schwarz | ESH3-Z5 | 100197 | Oct. 23, 2007 | Oct. 23, 2008 |
| Pulse Limiter | Rohde & Schwarz | ESH3-Z2 | N/A | N/A | N/A |
| Absorbing Clamp | Rohde & Schwarz | MDS-21 | N/A | Oct. 29, 2007 | Oct. 29, 2008 |
| KMO Shielded Room | KMO | KMO-001 | N/A | N/A | N/A |
| Coaxial Cable with N-Connectors | SCHWARZBECK | AK9515H | 95549 | Sep.18, 2007 | Sep.18, 2008 |
| Power Meter | Rohde & Schwarz | NRVD | 100041 | Feb.10, 2008 | Feb.10, 2009 |
| Radio Communication Test Set | Rohde & Schwarz | CMS 54 | 846621/024 | Feb.10, 2008 | Feb.10, 2009 |
| Modulation Analyzer | Hewlett-Packard | 8901B | 2303A00362 | Feb.10, 2008 | Feb.10, 2009 |
| Communication Analyzer | Wavetek Stabilock | 4032 | N/A | Feb. 01, 2008 | Feb.01, 2009 |
| Storage Oscilloscope | Tektronix | TDS3052 | N/A | Feb. 01, 2008 | Feb.01, 2009 |
| Attenuator | Schwarzbeck | 20dB | N/A | Feb. 01, 2008 | Feb.01, 2009 |
| Attenuator | Rohde & Schwarz | 10dB | N/A | Feb. 01, 2008 | Feb.01, 2009 |
| SOHO Telephone Switching System | IKE | 2000-108C | N/A | Feb.10, 2008 | Feb.10, 2009 |
| Temperature Chamber | TABAI | PSL-4GTW | N/A | Feb.10, 2008 | Feb.10, 2009 |