# Application for FCC Certificate
On Behalf of
LG Electronics U.S.A., Inc.

LCD Monitor

Model No.: L1942PKU

Serial No.: 911NDYG5H258

FCC ID : BEJL1942PKU

Prepared For : LG Electronics U.S.A., Inc.
1000 Sylvan Avenue, Englewood Cliffs,
NJ 07632, United States

Prepared By : Audix Technology (Shanghai) Co., Ltd.
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Report No. : ACI-F09128
Date of Test : Dec 17, 2009
Date of Report : Dec 21, 2009

# TABLE OF CONTENTS

Page

# TEST REPORT FOR FCC CERTIFICATE

| | | |
|---|---|---|
| Applicant | : | LG Electronics U.S.A., Inc. |
| Manufacturer | : | LG Electronics Nanjing Display Co., Ltd. |
| EUT Description | : | LCD Monitor |
| | | (A) Model No. : L1942PKU |
| | | (B) Serial No. : 911NDYG5H258 |
| | | (C) Power Supply : 120V/60Hz |

Test Procedure Used:

*FCC RULES AND REGULATIONS PART 15 SUBPART B CLASS B 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 B (Class B) and ICES-003, Issue 4 February 2004 (CISPR 22:2002) limits both radiated and conducted emissions.

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: L1942PKU; S/N: 911NDYG5H258) which was tested in 3m anechoic chamber Dec 21, 2009 is technically compliance 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 by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

Date of Test : Dec 17, 2009 Date of Report : Dec 21, 2009

Producer : Alan He
ALAN HE / Assistant

Review : Dio Yang
DIO YANG / Deputy Assistant Manager

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

Signatory : Sammy Chen
Authorized Signature EMC SAMMY CHEN / Assistant 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 of Test Item | Standard | Limits | Results |
|---|---|---|---|
| **EMISSION** | | | |
| Conducted Disturbance at the Mains Terminal | FCC RULES AND REGULATIONS PART 15 SUBPART B OCTOBER 2008 AND ANSI C63.4-2003 | 15.107(a) Class B | Pass |
| Radiated Disturbance | FCC RULES AND REGULATIONS PART 15 SUBPART B OCTOBER 2008 AND ANSI C63.4-2003 | 15.109(a) Class B | Pass |

# 2 GENERAL INFORMATION

## 2.1 Description of Equipment Under Test

| | | |
|---|---|---|
| Description | : | LCD Monitor |
| Type of EUT | : | ☑ Production ☐ Pre-product ☐ Pro-type |
| Model No. | : | L1942PKU |
| Serial No. | : | 911NDYG5H258 |
| Note | : | The data at rotate 90 degree condition (only radiated emission) is also tested and recorded in this report. The mode tested was the worst case in normal condition. |
| Real Power | : | 23.00W |
| Applicant | : | LG Electronics U.S.A., Inc.<br>1000 Sylvan Avenue, Englewood Cliffs,<br>NJ 07632, United States |
| Manufacturer | : | LG Electronics Nanjing Display Co., Ltd.<br>No.346, Yao Xin Road, Economic & Technical Development Zone, Nanjing, China |
| LCD Panel | : | Manufacturer : LG Display<br>M/N : LM190E08 (TL) (J7) |
| Max Resolution | : | D-Sub 1280*1024@75Hz<br>DVI 1280*1024@60Hz |
| D-Sub Cable #1 | : | Shielded, Detachable, 1.85m,<br>with two cores on cable |
| D-Sub Cable #2 | : | Shielded, Detachable, 1.85m,<br>with two cores in connector |
| DVI Cable #1 | : | Shielded, Detachable, 1.85m,<br>with two cores on cable |
| DVI Cable #2 | : | Shielded, Detachable, 1.85m,<br>with two cores in connector |
| Power Cord | : | Unshielded, Detachable, 1.80m |
| Note | : | After evaluation, the D-Sub cable#1 and DVI cable#1 were used in the test for they will cause the maximum emission. |

**Remark:**
The EUT is a LCD Monitor which input/output ports as follows:
(1) One D-Sub Port
: Connected with PC
(2) One DVI Port
: Connected with PC
(3) One Audio In Port
: Connected with PC
(4) One AC In Port
: Connected with Power

## 2.2 Peripherals

### 2.2.1 PC

| | | |
|---|---|---|
| Manufacturer | : | HP |
| Model Number | : | dx6120MT |
| Serial Number | : | CNG53004J2 |
| Power Cord | : | Unshielded, Detachable, 1.8m |
| Certificate | : | FCC DoC; CE/EMC; VCCI; C-Tick; UL<br>BSMI (R33001) 3C (A000111),<br>MIC (E-A011-04-2659(B)) |

### 2.2.2 Printer

| | | |
|---|---|---|
| Manufacturer | : | HP |
| Model Number | : | C3990A |
| Serial Number | : | JPZX020487 |
| Data Cable | : | Shielded, Detachable, 1.5m |
| Certificate | : | GS, CE/EMC, C-Tick, FCC DoC |

### 2.2.3 Keyboard

| | | |
|---|---|---|
| Manufacturer | : | Microsoft |
| Model Number | : | RT2300 |
| Serial Number | : | 7668200662248 |
| Data Cable | : | Shielded, Undetachable, 1.8m |
| Certificate | : | CE/EMC, FCC DoC, VCCI, MIC, C-Tick,<br>BSMI |

### 2.2.4 Mouse

| | | |
|---|---|---|
| Manufacturer | : | Microsoft |
| Model Number | : | RT2300 |
| Serial Number | : | 6965712071551 |
| Data Cable | : | Shielded, Undetachable, 1.85m. |
| Certificate | : | FCC DoC, VCCI, CE/EMC, MIC, GS |

### 2.2.5 Modem

| | | |
|---|---|---|
| Manufacturer | : | TP-LINK |
| Model Number | : | TM-EC5658V |
| Serial Number | : | 07123301053 |
| Data Cable | : | Shielded, Detachable, 1.8m |
| Certificate | : | FCC DoC, CE/EMC, CCC |

## 2.3 Description of Test Facility

| | | |
|---|---|---|
| Site Description (Semi-Anechoic Chamber) | : | Sept. 17, 1998 file on<br>Apr 29, 2009 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 |
| NVLAP Lab Code | : | 200371-0 |

## 2.4 Measurement Uncertainty

| | | |
|---|---|---|
| Conducted Emission Expanded Uncertainty: | | U = 1.26 dB |
| Radiated Emission Expanded Uncertainty | : | U = 3.02 dB |

# 3 CONDUCTED EMISSION TEST

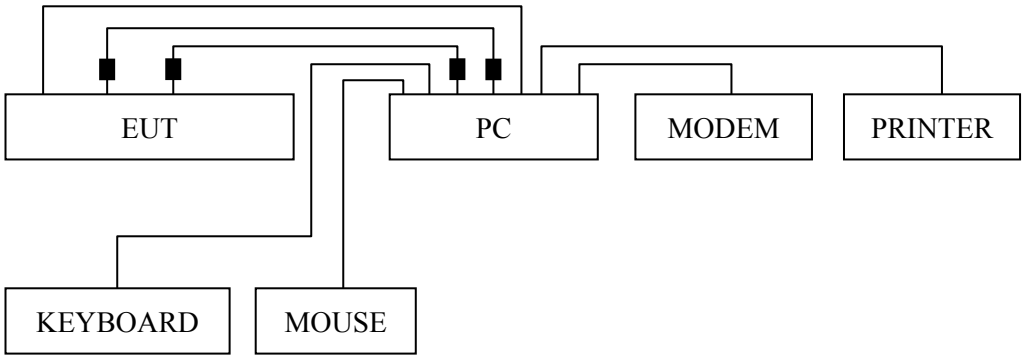
3.1.1 Test Equipment

The following test equipments are used during the conducted emission test in a shielded room:

| Item | Type | Manufacturer | Model No. | Serial No. | Last Cal. | Next Cal. |
|---|---|---|---|---|---|---|
| 1. | Test Receiver | R&S | ESCI | 100841 | Nov 21, 2009 | Nov 21, 2010 |
| 2. | Artificial Mains Network (AMN) | R&S | ESH2-Z5 | 843890/011 | Apr 02, 2009 | Apr 02, 2010 |
| 3. | Line Impedance Stabilization Network (LISN) | Kyoritsu | KNW-407 | 8-1280-4 | Apr 02, 2009 | Apr 02, 2010 |
| 4. | 50 Ω Coaxial Switch | Anritsu | MP59B | 6200426389 | Sep 19, 2009 | Mar 19, 2010 |
| 5. | 50Ω Terminator | Anritsu | BNC | 001 | Apr 02, 2009 | Apr 02, 2010 |
| 6. | Software | Audix | E3 | SET00200 9804M592 | -- | -- |

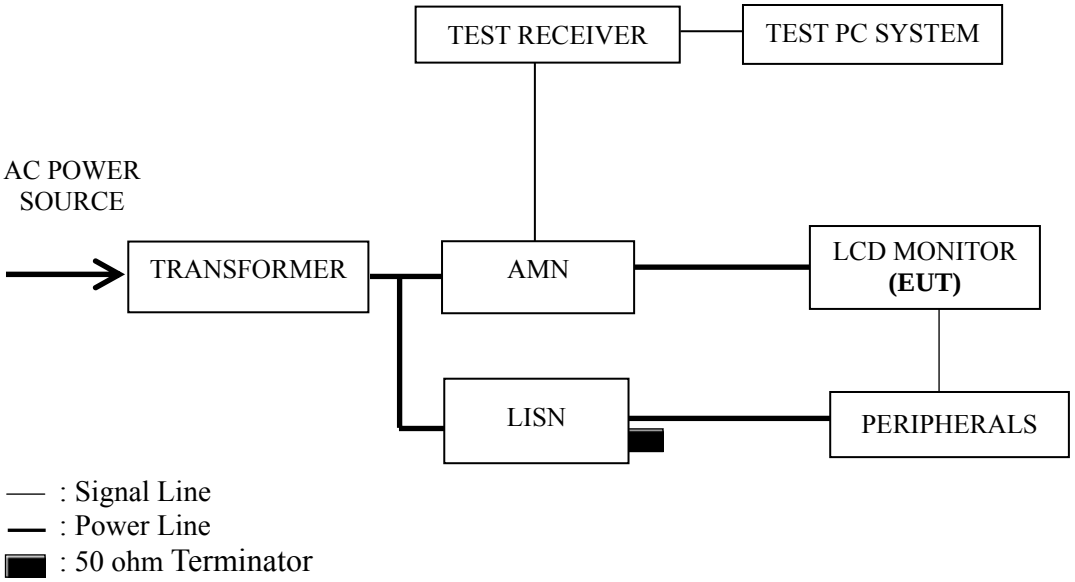
## 3.2 Block Diagram of Test Setup

3.2.1 EUT & Peripherals




■: Ferrite core

### 3.2.2 Conducted Disturbance Test Setup




## 3.3 Conducted Emission Limit [FCC Part 15 Subpart B 15.107(a)]

| Frequency Range (MHz) | Limits dB (μV) | |
|---|---|---|
| | Quasi-peak | Average |
| 0.15 ~ 0.5 | 66~56 | 56~46 |
| 0.5 ~ 5 | 56 | 46 |
| 5 ~ 30 | 60 | 50 |

NOTE 1 – The lower limit shall apply at the transition frequencies.
NOTE 2 – The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz~0.50 MHz

## 3.4 Test Configuration

The EUT (listed in Sec.2.1) and the peripherals (listed in Sec 2.2) were installed as shown on Sec.3.2 to meet FCC requirement and operating in a manner that tends to maximize its emission level in a normal application.

## 3.5 Operating Condition of EUT

3.5.1 Setup the EUT and peripherals as shown in Sec. 3.2.

3.5.2 Turn on the power of all equipments and the EUT.

3.5.3 Set the contrast & brightness of EUT to maximum.

3.5.4 PC system ran the self-test program "EMC Test" by windows XP and sent "H" characters to EUT through graphic card, the EUT's screen displayed and filled with "H" pattern by its resolution (Via D-Sub or DVI Input).

3.5.5 PC system played music and sent audio signal to EUT through the audio in port of EUT.

3.5.6 Repeat above procedure from 3.5.3 to 3.5.5 for difference test mode.

3.5.7 The other peripherals devices were driven and operated during the test.

3.5.8 The test modes are as follows:

| M/N | Test Mode |
|---|---|
| L1942PKU | D-Sub 640*480@60Hz |
| | D-Sub 1024*768@60Hz |
| | D-Sub 1280*1024@75Hz |
| | DVI 640*480@60Hz |
| | DVI 1024*768@60Hz |
| | DVI 1280*1024@60Hz |

## 3.6 Test Procedures

The EUT and peripherals were connected to the power mains through an Artificial Mains Network (AMN). This provided a 50 ohm coupling impedance for the measuring equipment.

Both sides of AC line (Line & Neutral) were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables were changed or manipulated according to ANSI C63.4:2003 during conducted emission test.

The bandwidth of R&S Test Receiver ESCI was set at 9 kHz.

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

The test modes were done on conducted disturbance test and all the test results are listed in Sec. 3.7.

## 3.7 Test Results

**< PASS >**

The frequency and amplitude of the highest conducted emission relative to the limit is reported. All emissions not reported below are too low against the prescribed limits.

| M/N | Test Mode | Data Page |
|---|---|---|
| L1942PKU | D-Sub 640*480@60Hz | P12 |
| | D-Sub 1024*768@60Hz | P13 |
| | D-Sub 1280*1024@75Hz | P14 |
| | **DVI 640*480@60Hz** | **P15** |
| | DVI 1024*768@60Hz | P16 |
| | DVI 1280*1024@60Hz | P17 |

NOTE 1 – The **bold test mode** listed above means the worst test mode.
NOTE 2 – Factor = Cable Loss + AMN Factor.
NOTE 3 – Emission Level = Meter Reading + Factor.
NOTE 4 – "QP" means "Quasi-Peak" values, "AV" means "Average" values.
NOTE 5 – The worst case is for DVI 640*480@60Hz test mode. The worst emission is detected at 0.393 MHz (Average Value) with corrected signal level of 35.34 dB (μV) (limit is 47.99 dB (μV)), when the Line the EUT is connected to AMN.

| | | | | | |
|---|---|---|---|---|---|
| EUT | : | LCD Monitor | Temperature : | 22℃ | |
| Model No. | : | L1942PKU | Humidity | : | 48%RH |
| Serial No. | : | 911NDYG5H258 | Date of Test | : | Dec 17, 2009 |
| Test Mode | : | D-Sub 640*480@60Hz | | | |

| Test Line | Frequency (MHz) | Meter Reading dB(μV) | Factor (dB) | Emission Level dB(μV) | Limits dB(μV) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| Line | 0.197 | 44.42 | 0.22 | 44.64 | 63.76 | 19.12 | QP |
| | 0.264 | 36.16 | 0.24 | 36.40 | 61.29 | 24.89 | |
| | 1.172 | 31.62 | 0.32 | 31.94 | 56.00 | 24.06 | |
| | 1.900 | 29.60 | 0.36 | 29.96 | 56.00 | 26.04 | |
| | 5.867 | 29.13 | 0.45 | 29.58 | 60.00 | 30.42 | |
| | 22.535 | 21.90 | 0.84 | 22.74 | 60.00 | 37.26 | |
| | 0.197 | 37.35 | 0.22 | 37.57 | 53.76 | 16.19 | AV |
| | 0.264 | 32.75 | 0.24 | 32.99 | 51.29 | 18.30 | |
| | **1.172** | **30.32** | **0.32** | **30.64** | **46.00** | **15.36** | |
| | 1.900 | 23.77 | 0.36 | 24.13 | 46.00 | 21.87 | |
| | 5.867 | 13.68 | 0.45 | 14.13 | 50.00 | 35.87 | |
| | 22.535 | 9.38 | 0.84 | 10.22 | 50.00 | 39.78 | |
| Neutral | 0.150 | 44.78 | 0.20 | 44.98 | 66.00 | 21.02 | QP |
| | 0.197 | 42.82 | 0.20 | 43.02 | 63.76 | 20.74 | |
| | 1.172 | 31.59 | 0.32 | 31.91 | 56.00 | 24.09 | |
| | 2.883 | 25.99 | 0.41 | 26.40 | 56.00 | 29.60 | |
| | 5.826 | 28.80 | 0.46 | 29.26 | 60.00 | 30.74 | |
| | 7.935 | 26.17 | 0.49 | 26.66 | 60.00 | 33.34 | |
| | 0.150 | 31.26 | 0.20 | 31.46 | 56.00 | 24.54 | AV |
| | 0.197 | 36.13 | 0.20 | 36.33 | 53.76 | 17.43 | |
| | 1.172 | 30.16 | 0.32 | 30.48 | 46.00 | 15.52 | |
| | 2.883 | 12.87 | 0.41 | 13.28 | 46.00 | 32.72 | |
| | 5.826 | 11.76 | 0.46 | 12.22 | 50.00 | 37.78 | |
| | 7.935 | 15.36 | 0.49 | 15.85 | 50.00 | 34.15 | |

TEST ENGINEER: HUGH HUANG

| | | | | | |
|---|---|---|---|---|---|
| EUT | : | LCD Monitor | Temperature : | 22℃ | |
| Model No. | : | L1942PKU | Humidity | : | 48%RH |
| Serial No. | : | 911NDYG5H258 | Date of Test | : | Dec 17, 2009 |
| Test Mode | : | D-Sub 1024*768@60Hz | | | |

| Test Line | Frequency (MHz) | Meter Reading dB(μV) | Factor (dB) | Emission Level dB(μV) | Limits dB(μV) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| Line | 0.199 | 43.82 | 0.22 | 44.04 | 63.67 | 19.63 | QP |
| | 0.262 | 36.88 | 0.24 | 37.12 | 61.38 | 24.26 | |
| | 0.654 | 33.55 | 0.27 | 33.82 | 56.00 | 22.18 | |
| | 1.172 | 30.73 | 0.32 | 31.05 | 56.00 | 24.95 | |
| | 5.867 | 18.08 | 0.45 | 18.53 | 60.00 | 41.47 | |
| | 22.063 | 18.91 | 0.85 | 19.76 | 60.00 | 40.24 | |
| | 0.199 | 38.82 | 0.22 | 39.04 | 53.67 | 14.63 | AV |
| | 0.262 | 34.29 | 0.24 | 34.53 | 51.38 | 16.85 | |
| | **0.654** | **32.28** | **0.27** | **32.55** | **46.00** | **13.45** | |
| | 1.172 | 30.24 | 0.32 | 30.56 | 46.00 | 15.44 | |
| | 5.867 | 13.38 | 0.45 | 13.83 | 50.00 | 36.17 | |
| | 22.063 | 9.66 | 0.85 | 10.51 | 50.00 | 39.49 | |
| Neutral | 0.199 | 44.01 | 0.20 | 44.21 | 63.67 | 19.46 | QP |
| | 0.393 | 33.28 | 0.25 | 33.53 | 57.99 | 24.46 | |
| | 0.716 | 28.79 | 0.28 | 29.07 | 56.00 | 26.93 | |
| | 1.236 | 27.91 | 0.32 | 28.23 | 56.00 | 27.77 | |
| | 5.867 | 29.18 | 0.46 | 29.64 | 60.00 | 30.36 | |
| | 7.935 | 24.92 | 0.49 | 25.41 | 60.00 | 34.59 | |
| | 0.199 | 35.38 | 0.20 | 35.58 | 53.67 | 18.09 | AV |
| | 0.393 | 27.16 | 0.25 | 27.41 | 47.99 | 20.58 | |
| | 0.716 | 26.96 | 0.28 | 27.24 | 46.00 | 18.76 | |
| | 1.236 | 23.09 | 0.32 | 23.41 | 46.00 | 22.59 | |
| | 5.867 | 13.78 | 0.46 | 14.24 | 50.00 | 35.76 | |
| | 7.935 | 15.17 | 0.49 | 15.66 | 50.00 | 34.34 | |

TEST ENGINEER: HUGH HUANG

| | | | | | |
|---|---|---|---|---|---|
| EUT | : | LCD Monitor | Temperature : | 22℃ | |
| Model No. | : | L1942PKU | Humidity | : | 48%RH |
| Serial No. | : | 911NDYG5H258 | Date of Test | : | Dec 17, 2009 |
| Test Mode | : | D-Sub 1280*1024@75Hz | | | |

| Test Line | Frequency (MHz) | Meter Reading dB(μV) | Factor (dB) | Emission Level dB(μV) | Limits dB(μV) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| Line | 0.199 | 43.86 | 0.22 | 44.08 | 63.67 | 19.59 | QP |
| | 0.393 | 35.47 | 0.28 | 35.75 | 57.99 | 22.24 | |
| | 1.172 | 30.75 | 0.32 | 31.07 | 56.00 | 24.93 | |
| | 2.033 | 26.04 | 0.36 | 26.40 | 56.00 | 29.60 | |
| | 5.867 | 26.84 | 0.45 | 27.29 | 60.00 | 32.71 | |
| | 23.140 | 20.42 | 0.83 | 21.25 | 60.00 | 38.75 | |
| | 0.199 | 39.10 | 0.22 | 39.32 | 53.67 | 14.35 | AV |
| | **0.393** | **34.80** | **0.28** | **35.08** | **47.99** | **12.91** | |
| | 1.172 | 30.29 | 0.32 | 30.61 | 46.00 | 15.39 | |
| | 2.033 | 24.13 | 0.36 | 24.49 | 46.00 | 21.51 | |
| | 5.867 | 21.05 | 0.45 | 21.50 | 50.00 | 28.50 | |
| | 23.140 | 11.52 | 0.83 | 12.35 | 50.00 | 37.65 | |
| Neutral | 0.199 | 42.20 | 0.20 | 42.40 | 63.67 | 21.27 | QP |
| | 0.264 | 34.40 | 0.22 | 34.62 | 61.29 | 26.67 | |
| | 1.249 | 26.81 | 0.32 | 27.13 | 56.00 | 28.87 | |
| | 3.145 | 26.20 | 0.41 | 26.61 | 56.00 | 29.39 | |
| | 6.488 | 28.97 | 0.47 | 29.44 | 60.00 | 30.56 | |
| | 7.935 | 25.22 | 0.49 | 25.71 | 60.00 | 34.29 | |
| | 0.199 | 36.19 | 0.20 | 36.39 | 53.67 | 17.28 | AV |
| | 0.264 | 29.41 | 0.22 | 29.63 | 51.29 | 21.66 | |
| | 1.249 | 24.50 | 0.32 | 24.82 | 46.00 | 21.18 | |
| | 3.145 | 8.71 | 0.41 | 9.12 | 46.00 | 36.88 | |
| | 6.488 | 20.69 | 0.47 | 21.16 | 50.00 | 28.84 | |
| | 7.935 | 16.53 | 0.49 | 17.02 | 50.00 | 32.98 | |

TEST ENGINEER: HUGH HUANG

| | | | | | |
|---|---|---|---|---|---|
| EUT | : | LCD Monitor | Temperature : | 22℃ | |
| Model No. | : | L1942PKU | Humidity | : | 48%RH |
| Serial No. | : | 911NDYG5H258 | Date of Test | : | Dec 17, 2009 |
| Test Mode | : | DVI 640*480@60Hz | | | |

| Test Line | Frequency (MHz) | Meter Reading dB(μV) | Factor (dB) | Emission Level dB(μV) | Limits dB(μV) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| Line | 0.199 | 44.46 | 0.22 | 44.68 | 63.67 | 18.99 | QP |
| | 0.393 | 35.60 | 0.28 | 35.88 | 57.99 | 22.11 | |
| | 1.172 | 32.07 | 0.32 | 32.39 | 56.00 | 23.61 | |
| | 2.893 | 24.10 | 0.40 | 24.50 | 56.00 | 31.50 | |
| | 5.908 | 29.30 | 0.45 | 29.75 | 60.00 | 30.25 | |
| | 21.780 | 19.00 | 0.86 | 19.86 | 60.00 | 40.14 | |
| | 0.199 | 36.39 | 0.22 | 36.61 | 53.67 | 17.06 | AV |
| | **0.393** | **35.06** | **0.28** | **35.34** | **47.99** | **12.65** | |
| | 1.172 | 31.81 | 0.32 | 32.13 | 46.00 | 13.87 | |
| | 2.893 | 13.27 | 0.40 | 13.67 | 46.00 | 32.33 | |
| | 5.908 | 20.32 | 0.45 | 20.77 | 50.00 | 29.23 | |
| | 21.780 | 9.49 | 0.86 | 10.35 | 50.00 | 39.65 | |
| Neutral | 0.199 | 42.75 | 0.20 | 42.95 | 63.67 | 20.72 | QP |
| | 0.262 | 36.07 | 0.22 | 36.29 | 61.38 | 25.09 | |
| | 0.716 | 27.41 | 0.28 | 27.69 | 56.00 | 28.31 | |
| | 1.172 | 32.29 | 0.32 | 32.61 | 56.00 | 23.39 | |
| | 6.557 | 29.00 | 0.48 | 29.48 | 60.00 | 30.52 | |
| | 7.880 | 26.00 | 0.49 | 26.49 | 60.00 | 33.51 | |
| | 0.199 | 33.19 | 0.20 | 33.39 | 53.67 | 20.28 | AV |
| | 0.262 | 31.19 | 0.22 | 31.41 | 51.38 | 19.97 | |
| | 0.716 | 27.16 | 0.28 | 27.44 | 46.00 | 18.56 | |
| | 1.172 | 31.50 | 0.32 | 31.82 | 46.00 | 14.18 | |
| | 6.557 | 23.03 | 0.48 | 23.51 | 50.00 | 26.49 | |
| | 7.880 | 18.93 | 0.49 | 19.42 | 50.00 | 30.58 | |

TEST ENGINEER: HUGH HUANG

| | | | | | |
|---|---|---|---|---|---|
| EUT | : | LCD Monitor | Temperature : | 22℃ | |
| Model No. | : | L1942PKU | Humidity : | 48%RH | |
| Serial No. | : | 911NDYG5H258 | Date of Test : | Dec 17, 2009 | |
| Test Mode | : | DVI 1024*768@60Hz | | | |

| Test Line | Frequency (MHz) | Meter Reading dB(μV) | Factor (dB) | Emission Level dB(μV) | Limits dB(μV) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| Line | 0.200 | 44.68 | 0.22 | 44.90 | 63.62 | 18.72 | QP |
| | 0.262 | 39.06 | 0.24 | 39.30 | 61.38 | 22.08 | |
| | 0.654 | 34.70 | 0.27 | 34.97 | 56.00 | 21.03 | |
| | 1.172 | 34.01 | 0.32 | 34.33 | 56.00 | 21.67 | |
| | 5.899 | 31.00 | 0.45 | 31.45 | 60.00 | 28.55 | |
| | 23.387 | 22.07 | 0.82 | 22.89 | 60.00 | 37.11 | |
| | 0.200 | 34.93 | 0.22 | 35.15 | 53.62 | 18.47 | AV |
| | 0.262 | 34.48 | 0.24 | 34.72 | 51.38 | 16.66 | |
| | **0.654** | **33.00** | **0.27** | **33.27** | **46.00** | **12.73** | |
| | 1.172 | 31.60 | 0.32 | 31.92 | 46.00 | 14.08 | |
| | 5.899 | 22.56 | 0.45 | 23.01 | 50.00 | 26.99 | |
| | 23.387 | 10.10 | 0.82 | 10.92 | 50.00 | 39.08 | |
| Neutral | 0.199 | 42.53 | 0.20 | 42.73 | 63.67 | 20.94 | QP |
| | 0.262 | 35.91 | 0.22 | 36.13 | 61.38 | 25.25 | |
| | 1.172 | 31.94 | 0.32 | 32.26 | 56.00 | 23.74 | |
| | 2.886 | 17.83 | 0.41 | 18.24 | 56.00 | 37.76 | |
| | 6.488 | 29.39 | 0.47 | 29.86 | 60.00 | 30.14 | |
| | 21.373 | 18.89 | 0.83 | 19.72 | 60.00 | 40.28 | |
| | 0.199 | 36.02 | 0.20 | 36.22 | 53.67 | 17.45 | AV |
| | 0.262 | 32.60 | 0.22 | 32.82 | 51.38 | 18.56 | |
| | 1.172 | 31.60 | 0.32 | 31.92 | 46.00 | 14.08 | |
| | 2.886 | 15.29 | 0.41 | 15.70 | 46.00 | 30.30 | |
| | 6.488 | 24.04 | 0.47 | 24.51 | 50.00 | 25.49 | |
| | 21.373 | 10.16 | 0.83 | 10.99 | 50.00 | 39.01 | |

TEST ENGINEER: HUGH HUANG

| | | | | | |
|---|---|---|---|---|---|
| EUT | : | LCD Monitor | Temperature : | 22℃ | |
| Model No. | : | L1942PKU | Humidity | : | 48%RH |
| Serial No. | : | 911NDYG5H258 | Date of Test | : | Dec 17, 2009 |
| Test Mode | : | DVI 1280*1024@60Hz | | | |

| Test Line | Frequency (MHz) | Meter Reading dB(μV) | Factor (dB) | Emission Level dB(μV) | Limits dB(μV) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| Line | 0.199 | 44.89 | 0.22 | 45.11 | 63.67 | 18.56 | QP |
| | 0.262 | 38.99 | 0.24 | 39.23 | 61.38 | 22.15 | |
| | 1.172 | 35.07 | 0.32 | 35.39 | 56.00 | 20.61 | |
| | 1.901 | 29.70 | 0.36 | 30.06 | 56.00 | 25.94 | |
| | 5.959 | 30.60 | 0.45 | 31.05 | 60.00 | 28.95 | |
| | 23.520 | 22.30 | 0.82 | 23.12 | 60.00 | 36.88 | |
| | 0.199 | 39.02 | 0.22 | 39.24 | 53.67 | 14.43 | AV |
| | 0.262 | 33.79 | 0.24 | 34.03 | 51.38 | 17.35 | |
| | **1.172** | **31.76** | **0.32** | **32.08** | **46.00** | **13.92** | |
| | 1.901 | 24.91 | 0.36 | 25.27 | 46.00 | 20.73 | |
| | 5.959 | 21.85 | 0.45 | 22.30 | 50.00 | 27.70 | |
| | 23.520 | 11.28 | 0.82 | 12.10 | 50.00 | 37.90 | |
| Neutral | 0.197 | 43.10 | 0.20 | 43.30 | 63.76 | 20.46 | QP |
| | 0.393 | 31.01 | 0.25 | 31.26 | 57.99 | 26.73 | |
| | 0.716 | 28.54 | 0.28 | 28.82 | 56.00 | 27.18 | |
| | 1.172 | 32.87 | 0.32 | 33.19 | 56.00 | 22.81 | |
| | 5.993 | 29.72 | 0.46 | 30.18 | 60.00 | 29.82 | |
| | 7.812 | 28.00 | 0.49 | 28.49 | 60.00 | 31.51 | |
| | 0.197 | 35.64 | 0.20 | 35.84 | 53.76 | 17.92 | AV |
| | 0.393 | 25.09 | 0.25 | 25.34 | 47.99 | 22.65 | |
| | 0.716 | 27.29 | 0.28 | 27.57 | 46.00 | 18.43 | |
| | 1.172 | 31.61 | 0.32 | 31.93 | 46.00 | 14.07 | |
| | 5.993 | 22.58 | 0.46 | 23.04 | 50.00 | 26.96 | |
| | 7.812 | 19.09 | 0.49 | 19.58 | 50.00 | 30.42 | |

TEST ENGINEER: HUGH HUANG

# 4 RADIATED EMISSION TEST

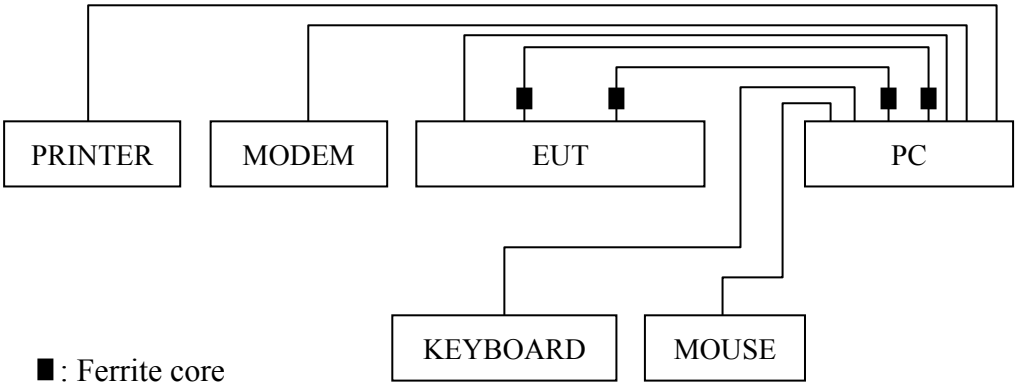
## 4.1 Test Equipment

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

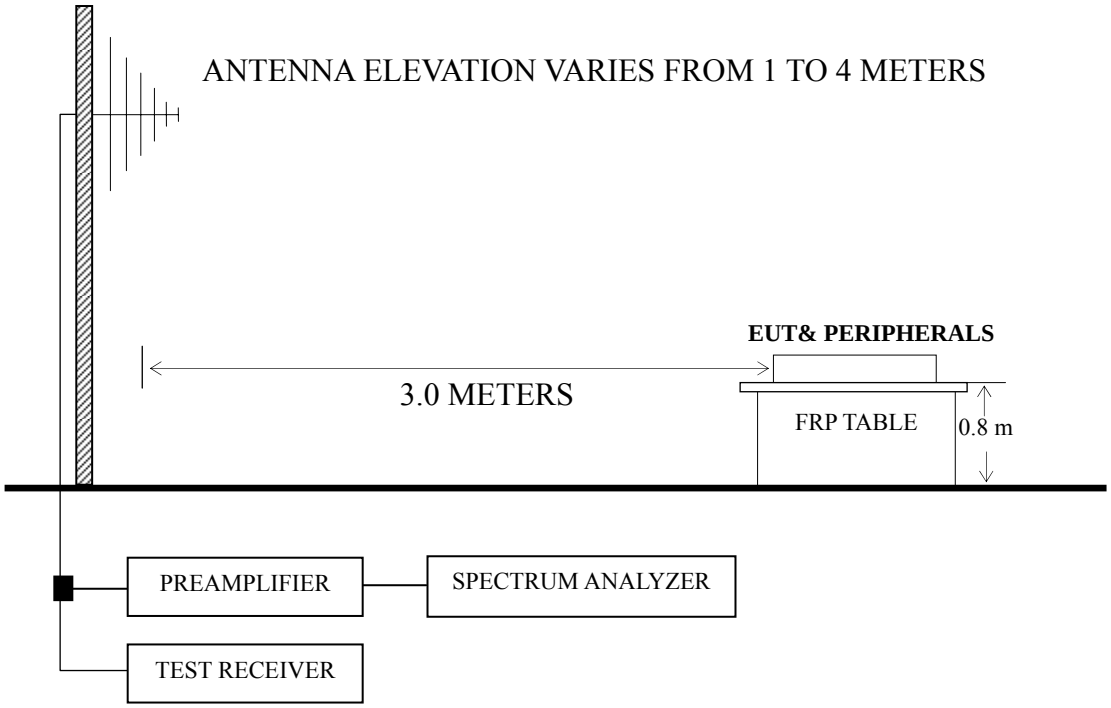
| Item | Type | Manufacturer | Model No. | Serial No. | Last Cal. | Next Cal. |
|---|---|---|---|---|---|---|
| 1. | Test Receiver | R&S | ESVS10 | 844594/001 | Mar 07, 2009 | Mar 07, 2010 |
| 2. | Preamplifier | Agilent | 8447D | 2944A10548 | Sep 19, 2009 | Mar 19, 2010 |
| 3. | Preamplifier | HP | 8449B | 3008A00864 | Apr 29, 2009 | Apr 29, 2010 |
| 4. | Bi-log Antenna | TESEQ | CBL6112D | 23193 | May 14, 2008 | May 14, 2010 |
| 5. | Spectrum | Agilent | E7405A | MY45106600 | May 19, 2009 | May 19, 2010 |
| 6. | Software | Audix | E3 | SET00200 9912M295-2 | -- | -- |

## 4.2 Block Diagram of Test Setup

### 4.2.1 EUT and Peripherals



4.2.2 Radiated emission test setup




■ : 50 ohm Coaxial Switch

## 4.3 Radiated Emission Limit [FCC Part 15 Subpart B 15.109(a)]

| Frequency (MHz) | Distance (m) | Field strength limits | |
|---|---|---|---|
| | | (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 log 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.

## 4.4 Test Configuration

The configuration of the EUT and peripherals are same as those used in conducted emission test.

Please refer to Sec.3.4.

## 4.5 Operating Condition of EUT

Same as conducted emission test which is listed in Sec.3.5, except for the test setup replaced by Sec.4.2.

## 4.6 Test Procedures

The EUT and peripherals were 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) 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

The frequency range from 30 MHz to 1000MHz was checked for all test modes.

The frequency range from 1 GHz to 2 GHz was checked for D-Sub 1280*1024@75Hz & DVI 1280*1024@60Hz modes.

The test modes were done on radiated disturbance test and all the test results are listed in Sec.4.7.

## 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.

| M/N | Test Mode | Data Page |
|---|---|---|
| L1942PEU | D-Sub 640*480@60Hz | P22 |
| | D-Sub 1024*768@60Hz | P23 |
| | D-Sub 1280*1024@75Hz | P24 |
| | DVI 640*480@60Hz | P25 |
| | DVI 1024*768@60Hz | P26 |
| | **DVI 1280*1024@60Hz** | **P27** |
| | DVI 1280*1024@60Hz (Rotate 90 degree) | P28 |

NOTE 1 – **The bold test mode** listed above means the worst test mode.
NOTE 2 – Emission Level = Antenna Factor + Cable Loss + Meter Reading.(< 1GHz)
NOTE 3 – Emission Level = Antenna Factor + Cable Loss – Preamp Factor + Meter Reading.(> 1GHz)
NOTE 4 – The emission levels that are 20dB below the official limit are not reported.
NOTE 5 – 0° was the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.
NOTE 6 – The worst case is for DVI 1280*1024@60Hz test mode. The worst emission at horizontal polarization was detected at 540.220 MHz with corrected signal level of 38.24 dB (μV/m) (limit is 46.00dB (μV/m)), when the antenna was 1.30 m height and the turntable was at 150°. The worst emission at vertical polarization was detected at 431.580 MHz with corrected signal level of 40.96 dB (μV/m) (limit is 46.00 dB (μV/m)), when the antenna was 1.00 m height and the turntable was at 65°.

| | | | | | |
|---|---|---|---|---|---|
| EUT | : | LCD Monitor | Temperature : | 22℃ |
| Model No. | : | L1942PKU | Humidity : | 60%RH |
| Serial No. | : | 911NDYG5H258 | Date of Test : | Dec 17, 2009 |
| Test Mode | : | D-Sub 640*480@60Hz | | |

| Polarization | Frequency (MHz) | Meter Reading dB (μV) | Antenna Factor (dB/m) | Cable Loss (dB) | Emission Level dB (μV/m) | Limits dB (μV/m) | Margin (dB) |
|---|---|---|---|---|---|---|---|
| Horizontal | 135.730 | 15.33 | 12.28 | 1.18 | 28.79 | 43.50 | 14.71 |
| | 167.740 | 20.65 | 10.27 | 1.31 | 32.23 | 43.50 | 11.27 |
| | **224.000** | **21.43** | **11.85** | **1.55** | **34.83** | **46.00** | **11.17** |
| | 334.580 | 12.90 | 14.86 | 1.84 | 29.60 | 46.00 | 16.40 |
| | 486.870 | 7.50 | 17.75 | 2.22 | 27.47 | 46.00 | 18.53 |
| | 730.340 | 6.88 | 20.00 | 2.75 | 29.63 | 46.00 | 16.37 |
| Vertical | **30.000** | **12.92** | **19.60** | **0.62** | **33.14** | **40.00** | **6.86** |
| | 135.730 | 14.51 | 12.28 | 1.18 | 27.97 | 43.50 | 15.53 |
| | 210.420 | 17.02 | 11.18 | 1.48 | 29.68 | 43.50 | 13.82 |
| | 281.230 | 19.22 | 13.57 | 1.68 | 34.47 | 46.00 | 11.53 |
| | 486.870 | 15.62 | 17.75 | 2.22 | 35.59 | 46.00 | 10.41 |
| | 856.440 | 11.45 | 21.28 | 2.98 | 35.71 | 46.00 | 10.29 |

TEST ENGINEER: RAVEN JIN

| | | | | | |
|---|---|---|---|---|---|
| EUT | : | LCD Monitor | Temperature : | 22℃ |
| Model No. | : | L1942PKU | Humidity : | 60%RH |
| Serial No. | : | 911NDYG5H258 | Date of Test : | Dec 17, 2009 |
| Test Mode | : | D-Sub 1024*768@60Hz | | |

| Polarization | Frequency (MHz) | Meter Reading dB (μV) | Antenna Factor (dB/m) | Cable Loss (dB) | Emission Level dB (μV/m) | Limits dB (μV/m) | Margin (dB) |
|---|---|---|---|---|---|---|---|
| Horizontal | 87.230 | 10.44 | 8.96 | 0.99 | 20.39 | 40.00 | 19.61 |
| | 135.730 | 16.14 | 12.28 | 1.18 | 29.60 | 43.50 | 13.90 |
| | **209.450** | **23.47** | **11.13** | **1.48** | **36.08** | **43.50** | **7.42** |
| | 322.940 | 14.16 | 14.54 | 1.84 | 30.54 | 46.00 | 15.46 |
| | 486.870 | 9.55 | 17.75 | 2.22 | 29.52 | 46.00 | 16.48 |
| | 730.340 | 6.94 | 20.00 | 2.75 | 29.69 | 46.00 | 16.31 |
| Vertical | **30.000** | **12.78** | **19.60** | **0.62** | **33.00** | **40.00** | **7.00** |
| | 43.580 | 16.44 | 11.88 | 0.69 | 29.01 | 40.00 | 10.99 |
| | 87.230 | 16.83 | 8.96 | 0.99 | 26.78 | 40.00 | 13.22 |
| | 135.730 | 15.70 | 12.28 | 1.18 | 29.16 | 43.50 | 14.34 |
| | 217.210 | 20.92 | 11.48 | 1.49 | 33.89 | 46.00 | 12.11 |
| | 321.970 | 17.50 | 14.50 | 1.84 | 33.84 | 46.00 | 12.16 |

TEST ENGINEER: RAVEN JIN

| | | | | | |
|---|---|---|---|---|---|
| EUT | : | LCD Monitor | Temperature : | 22℃ | |
| Model No. | : | L1942PKU | Humidity : | 60%RH | |
| Serial No. | : | 911NDYG5H258 | Date of Test : | Dec 17, 2009 | |
| Test Mode | : | D-Sub 1280*1024@75Hz | | | |

| Polarization | Frequency (MHz) | Meter Reading dB (μV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Emission Level dB (μV/m) | Limits dB (μV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| Horizontal | 71.710 | 20.66 | 6.69 | 0.90 | -- | 28.25 | 40.00 | 11.75 | QP |
| | 135.730 | 17.24 | 12.28 | 1.18 | -- | 30.70 | 43.50 | 12.80 | |
| | **213.330** | **23.24** | **11.30** | **1.48** | **--** | **36.02** | **43.50** | **7.48** | |
| | 288.020 | 15.67 | 13.71 | 1.71 | -- | 31.09 | 46.00 | 14.91 | |
| | 486.870 | 9.78 | 17.75 | 2.22 | -- | 29.75 | 46.00 | 16.25 | |
| | 730.340 | 6.73 | 20.00 | 2.75 | -- | 29.48 | 46.00 | 16.52 | |
| | 1060.000 | 45.33 | 22.82 | 3.85 | 34.10 | 37.90 | 74.00 | 36.10 | PK |
| | 1215.000 | 48.88 | 23.82 | 4.23 | 34.12 | 42.81 | 74.00 | 31.19 | |
| | 1301.000 | 47.34 | 24.54 | 4.41 | 34.13 | 42.16 | 74.00 | 31.84 | |
| | 1406.000 | 46.50 | 25.24 | 4.62 | 34.14 | 42.22 | 74.00 | 31.78 | |
| | 1543.000 | 46.57 | 26.07 | 4.88 | 34.16 | 43.36 | 74.00 | 30.64 | |
| | 1664.000 | 47.58 | 26.56 | 5.12 | 34.17 | 45.09 | 74.00 | 28.91 | |
| Vertical | **35.820** | **17.82** | **16.45** | **0.67** | **--** | **34.94** | **40.00** | **5.06** | QP |
| | 71.710 | 24.78 | 6.69 | 0.90 | -- | 32.37 | 40.00 | 7.63 | |
| | 167.740 | 22.61 | 10.27 | 1.31 | -- | 34.19 | 43.50 | 9.31 | |
| | 281.230 | 21.19 | 13.57 | 1.68 | -- | 36.44 | 46.00 | 9.56 | |
| | 486.870 | 17.38 | 17.75 | 2.22 | -- | 37.35 | 46.00 | 8.65 | |
| | 856.440 | 12.30 | 21.28 | 2.98 | -- | 36.56 | 46.00 | 9.44 | |
| | 1155.000 | 49.40 | 23.45 | 4.10 | 34.11 | 42.84 | 74.00 | 31.16 | PK |
| | 1263.000 | 49.93 | 24.23 | 4.33 | 34.13 | 44.36 | 74.00 | 29.64 | |
| | 1424.000 | 48.34 | 25.34 | 4.65 | 34.14 | 44.19 | 74.00 | 29.81 | |
| | 1629.000 | 46.07 | 26.47 | 5.05 | 34.16 | 43.43 | 74.00 | 30.57 | |
| | 1751.000 | 46.36 | 26.78 | 5.30 | 34.18 | 44.26 | 74.00 | 29.74 | |
| | 1941.000 | 44.51 | 27.76 | 5.54 | 34.20 | 43.61 | 74.00 | 30.39 | |

TEST ENGINEER: RAVEN JIN

| | | | | | |
|---|---|---|---|---|---|
| EUT | : | LCD Monitor | Temperature : | 22℃ |
| Model No. | : | L1942PKU | Humidity : | 60%RH |
| Serial No. | : | 911NDYG5H258 | Date of Test : | Dec 17, 2009 |
| Test Mode | : | DVI 640*480@60Hz | | |

| Polarization | Frequency (MHz) | Meter Reading dB (μV) | Antenna Factor (dB/m) | Cable Loss (dB) | Emission Level dB (μV/m) | Limits dB (μV/m) | Margin (dB) |
|---|---|---|---|---|---|---|---|
| Horizontal | 35.820 | -0.26 | 16.45 | 0.67 | 16.86 | 40.00 | 23.14 |
| | 126.030 | 14.63 | 12.71 | 1.15 | 28.49 | 43.50 | 15.01 |
| | **223.030** | **23.04** | **11.80** | **1.52** | **36.36** | **46.00** | **9.64** |
| | 341.370 | 10.15 | 15.07 | 1.85 | 27.07 | 46.00 | 18.93 |
| | 486.870 | 10.32 | 17.75 | 2.22 | 30.29 | 46.00 | 15.71 |
| | 702.210 | 7.31 | 19.73 | 2.71 | 29.75 | 46.00 | 16.25 |
| Vertical | 38.730 | 9.77 | 14.62 | 0.66 | 25.05 | 40.00 | 14.95 |
| | 126.030 | 18.24 | 12.71 | 1.15 | 32.10 | 43.50 | 11.40 |
| | 224.000 | 17.87 | 11.85 | 1.55 | 31.27 | 46.00 | 14.73 |
| | **281.230** | **21.50** | **13.57** | **1.68** | **36.75** | **46.00** | **9.25** |
| | 486.870 | 15.11 | 17.75 | 2.22 | 35.08 | 46.00 | 10.92 |
| | 856.440 | 11.05 | 21.28 | 2.98 | 35.31 | 46.00 | 10.69 |

TEST ENGINEER: RAVEN JIN

| | | | | | |
|---|---|---|---|---|---|
| EUT | : | LCD Monitor | Temperature : | 22℃ |
| Model No. | : | L1942PKU | Humidity : | 60%RH |
| Serial No. | : | 911NDYG5H258 | Date of Test : | Dec 17, 2009 |
| Test Mode | : | DVI 1024*768@60Hz | | |

| Polarization | Frequency (MHz) | Meter Reading dB (μV) | Antenna Factor (dB/m) | Cable Loss (dB) | Emission Level dB (μV/m) | Limits dB (μV/m) | Margin (dB) |
|---|---|---|---|---|---|---|---|
| Horizontal | 30.970 | -1.09 | 19.03 | 0.62 | 18.56 | 40.00 | 21.44 |
| | 135.730 | 13.26 | 12.28 | 1.18 | 26.72 | 43.50 | 16.78 |
| | **215.270** | **24.51** | **11.39** | **1.48** | **37.38** | **43.50** | **6.12** |
| | 324.880 | 17.43 | 14.58 | 1.85 | 33.86 | 46.00 | 12.14 |
| | 486.870 | 9.55 | 17.75 | 2.22 | 29.52 | 46.00 | 16.48 |
| | 702.210 | 10.10 | 19.73 | 2.71 | 32.54 | 46.00 | 13.46 |
| Vertical | **35.820** | **16.98** | **16.45** | **0.67** | **34.10** | **40.00** | **5.90** |
| | 54.250 | 15.35 | 7.92 | 0.78 | 24.05 | 40.00 | 15.95 |
| | 129.910 | 13.58 | 12.52 | 1.13 | 27.23 | 43.50 | 16.27 |
| | 218.180 | 18.55 | 11.52 | 1.50 | 31.57 | 46.00 | 14.43 |
| | 324.880 | 21.01 | 14.58 | 1.85 | 37.44 | 46.00 | 8.56 |
| | 486.870 | 15.63 | 17.75 | 2.22 | 35.60 | 46.00 | 10.40 |

TEST ENGINEER: RAVEN JIN

| | | | | | |
|---|---|---|---|---|---|
| EUT | : | LCD Monitor | Temperature : | 22℃ | |
| Model No. | : | L1942PKU | Humidity : | 60%RH | |
| Serial No. | : | 911NDYG5H258 | Date of Test : | Dec 17, 2009 | |
| Test Mode | : | DVI 1280*1024@60Hz | | | |

| Polarization | Frequency (MHz) | Meter Reading dB (μV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Emission Level dB (μV/m) | Limits dB (μV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| Horizontal | 132.820 | 9.19 | 12.40 | 1.20 | -- | 22.79 | 43.50 | 20.71 | QP |
| | 209.450 | 20.46 | 11.13 | 1.48 | -- | 33.07 | 43.50 | 10.43 | |
| | 323.910 | 19.00 | 14.58 | 1.84 | -- | 35.42 | 46.00 | 10.58 | |
| | 431.580 | 16.49 | 16.95 | 2.11 | -- | 35.55 | 46.00 | 10.45 | |
| | **540.220** | **17.47** | **18.42** | **2.35** | **--** | **38.24** | **46.00** | **7.76** | |
| | 702.210 | 10.15 | 19.73 | 2.71 | -- | 32.59 | 46.00 | 13.41 | |
| | 1144.000 | 45.65 | 23.39 | 4.08 | 34.11 | 39.01 | 74.00 | 34.99 | PK |
| | 1276.000 | 49.61 | 24.32 | 4.35 | 34.13 | 44.15 | 74.00 | 29.85 | |
| | 1383.000 | 39.91 | 25.09 | 4.57 | 34.14 | 35.43 | 74.00 | 38.57 | |
| | 1498.000 | 40.50 | 25.80 | 4.80 | 34.15 | 36.95 | 74.00 | 37.05 | |
| | 1664.000 | 43.58 | 26.56 | 5.12 | 34.17 | 41.09 | 74.00 | 32.91 | |
| | 1759.000 | 42.48 | 26.80 | 5.31 | 34.18 | 40.41 | 74.00 | 33.59 | |
| Vertical | 48.430 | 16.19 | 9.62 | 0.75 | -- | 26.56 | 40.00 | 13.44 | QP |
| | 135.730 | 12.73 | 12.28 | 1.18 | -- | 26.19 | 43.50 | 17.31 | |
| | 216.240 | 19.09 | 11.43 | 1.48 | -- | 32.00 | 46.00 | 14.00 | |
| | 323.910 | 22.16 | 14.58 | 1.84 | -- | 38.58 | 46.00 | 7.42 | |
| | **431.580** | **21.90** | **16.95** | **2.11** | **--** | **40.96** | **46.00** | **5.04** | |
| | 540.220 | 19.77 | 18.42 | 2.35 | -- | 40.54 | 46.00 | 5.46 | |
| | 1003.000 | 45.28 | 22.43 | 3.71 | 34.10 | 37.32 | 74.00 | 36.68 | PK |
| | 1126.000 | 48.46 | 23.27 | 4.03 | 34.11 | 41.65 | 74.00 | 32.35 | |
| | 1255.000 | 48.05 | 24.14 | 4.31 | 34.12 | 42.38 | 74.00 | 31.62 | |
| | 1383.000 | 46.34 | 25.09 | 4.57 | 34.14 | 41.86 | 74.00 | 32.14 | |
| | 1526.000 | 45.16 | 26.00 | 4.85 | 34.15 | 41.86 | 74.00 | 32.14 | |
| | 1793.000 | 44.91 | 26.88 | 5.39 | 34.18 | 43.00 | 74.00 | 31.00 | |

TEST ENGINEER: RAVEN JIN

| | | | | | |
|---|---|---|---|---|---|
| EUT | : | LCD Monitor | Temperature : | 22℃ | |
| Model No. | : | L1942PKU | Humidity : | 60%RH | |
| Serial No. | : | 911NDYG5H258 | Date of Test : | Dec 17, 2009 | |
| Test Mode | : | DVI 1280*1024@60Hz (Rotate 90 degree) | | | |

| Polarization | Frequency (MHz) | Meter Reading dB (μV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Emission Level dB (μV/m) | Limits dB (μV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| Horizontal | 108.570 | 20.29 | 1.11 | 12.17 | -- | 33.57 | 43.50 | 9.93 | QP |
| | 167.740 | 18.67 | 1.34 | 10.27 | -- | 30.28 | 43.50 | 13.22 | |
| | 210.420 | 17.26 | 1.57 | 11.18 | -- | 30.01 | 43.50 | 13.49 | |
| | 274.440 | 17.46 | 1.79 | 13.43 | -- | 32.68 | 46.00 | 13.32 | |
| | **303.540** | **20.60** | **1.89** | **14.00** | **--** | **36.49** | **46.00** | **9.51** | |
| | 497.540 | 14.23 | 2.42 | 17.88 | -- | 34.53 | 46.00 | 11.47 | |
| | 1029.000 | 46.32 | 22.60 | 3.77 | 34.10 | 38.59 | 74.00 | 35.41 | PK |
| | 1211.000 | 43.89 | 23.82 | 4.22 | 34.12 | 37.81 | 74.00 | 36.19 | |
| | 1453.000 | 44.24 | 25.53 | 4.71 | 34.14 | 40.34 | 74.00 | 33.66 | |
| | 1651.000 | 41.60 | 26.52 | 5.09 | 34.17 | 39.04 | 74.00 | 34.96 | |
| | 1900.000 | 42.09 | 27.50 | 5.50 | 34.19 | 40.90 | 74.00 | 33.10 | |
| | 1965.000 | 43.92 | 27.91 | 5.57 | 34.20 | 43.20 | 74.00 | 30.80 | |
| Vertical | **37.760** | **19.99** | **0.66** | **15.20** | **--** | **34.85** | **40.00** | **5.15** | QP |
| | 43.580 | 20.60 | 0.68 | 11.88 | -- | 33.16 | 40.00 | 6.84 | |
| | 51.340 | 20.86 | 0.71 | 8.61 | -- | 30.18 | 40.00 | 9.82 | |
| | 173.560 | 20.58 | 1.38 | 10.09 | -- | 32.05 | 43.50 | 11.45 | |
| | 213.330 | 18.83 | 1.58 | 11.30 | -- | 31.71 | 43.50 | 11.79 | |
| | 372.410 | 22.04 | 2.12 | 15.92 | -- | 40.08 | 46.00 | 5.92 | |
| | 1027.000 | 46.55 | 22.57 | 3.76 | 34.10 | 38.78 | 74.00 | 35.22 | PK |
| | 1168.000 | 46.49 | 23.54 | 4.13 | 34.12 | 40.04 | 74.00 | 33.96 | |
| | 1300.000 | 44.76 | 24.49 | 4.41 | 34.13 | 39.53 | 74.00 | 34.47 | |
| | 1440.000 | 42.26 | 25.45 | 4.68 | 34.14 | 38.25 | 74.00 | 35.75 | |
| | 1655.000 | 43.85 | 26.54 | 5.10 | 34.17 | 41.32 | 74.00 | 32.68 | |
| | 1845.000 | 42.39 | 27.17 | 5.45 | 34.19 | 40.82 | 74.00 | 33.18 | |

TEST ENGINEER: RAVEN JIN

# 5 DEVIATION TO TEST SPECIFICATIONS

None.

# 6 DEBUG DESCRIPTION

The following components are used during the countermeasure procedures:

| Name | M/N | Specifications (mm) | Manufacturer | Location |
|---|---|---|---|---|
| Aluminum foil | T-308 | 50*30 | DAEHUNG SUBSIDIARY MATERIALS. | See Appendix Internal Figure 15 |

Note: We had required the applicant and manufacturer that all electrical and mechanical devices employed for spurious radiation suppression, including any modifications made during certification testing, must be incorporated in each unit marked

TEST ENGINEER: Raven Jin

**(RAVEN JIN)**