

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

LCD Monitor

Model No.: W2261VT

Serial No.: E08072911

FCC ID : BEJW2261VT

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

Prepared By : Audix Technology (Shanghai) Co., Ltd.
3F 34Bldg 680 Guiping Rd,
Caohejing Hi-Tech Park,
Shanghai 200233, China

Tel: +86-21-64955500

Fax: +86-21-64955491

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Date of Test : Aug 05 – 08, 2008
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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. : W2261VT
(B) Serial No. : E08072911
(C) Power Supply : 120V/60Hz

Test Procedure Used:

*FCC RULES AND REGULATIONS PART 15 SUBPART B CLASS B OCTOBER 2007
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: W2261VT; S/N: E08072911) which was tested in 3m anechoic chamber on Aug 05 – 08, 2008 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 :

Aug 05 – 08, 2008

Prepared By:

Zeno Gu Aug. 08. 14
ZENO GU / Assistant

Reviewer:

Dio Yang Aug. 8. 14
DIO YANG / Supervisor

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

Approved Signatory:


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 Terminals	FCC RULES AND REGULATIONS PART 15 SUBPART B OCTOBER 2007 AND ANSI C63.4-2003	15.107(a) Class B	Pass
Radiated Disturbance	FCC RULES AND REGULATIONS PART 15 SUBPART B OCTOBER 2007 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.	:	W2261VT
Serial No.	:	E08072911
Real Power	:	45.00W
Applicant	:	LG Electronics U.S.A., Inc. 1000 Sylvan Avenue, Englewood Cliffs, NJ 07632, United States
Manufacturer	:	LG Electronics Nanjing Display Co., Ltd. No.346, Yao Xin Road, Economic & Technical Development Zone, Nanjing, China
LCD Panel	:	Manufacturer: AU Optronics M/N : M215HW01
Max Resolution	:	1920*1080@60Hz
D-Sub Cable	:	Shielded, Detachable, 1.85m, with two cores
DVI Cable	:	Shielded, Detachable, 1.90m, with two cores
HDMI Cable	:	Shielded, Detachable, 1.80m, with two cores
Power Cord	:	Unshielded, Detachable, 1.80m

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 HDMI Port | : Connected with PC |
| (4) One Earphone Port | : Connected with Earphone |
| (5) One AC In Port | : Connected with Power |

2.2 Peripherals

2.2.1 PC

Manufacturer : HP
Model Number : dx7200MT
Serial Number : CNG622017W
Power Cord : Unshielded, Detachable, 1.8m
Certificate : FCC DoC; CE/EMC; VCCI; C-Tick; UL
BSMI (R33001) 3C (A000111)
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,
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

2.2.6 Earphone

Manufacturer : FEIDIE
Model Number : SD-747
Serial Number : N/A

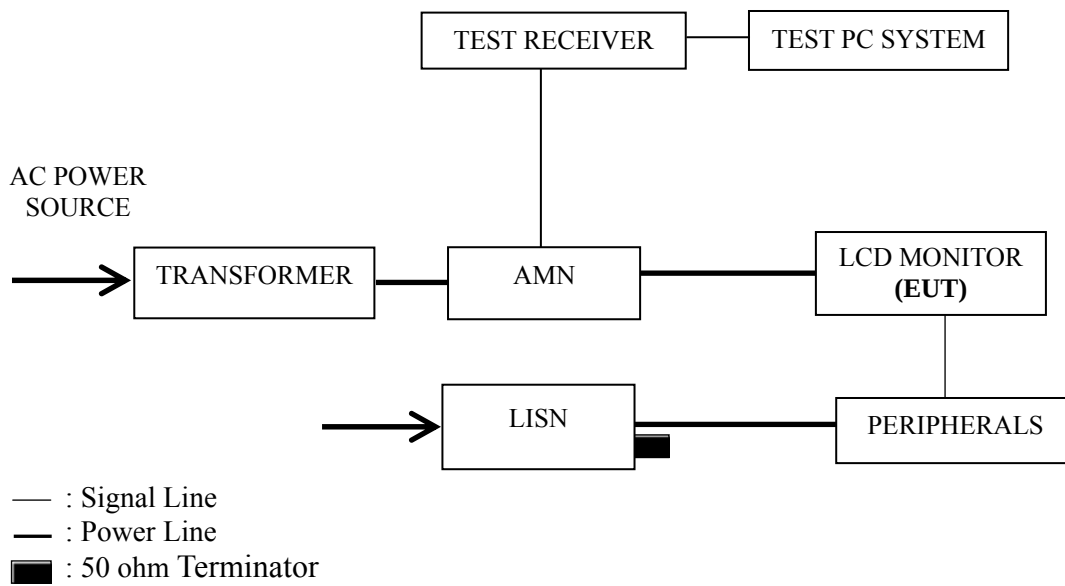
2.3 Description of Test Facility

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

2.4 Measurement Uncertainty

Conducted Emission Expanded Uncertainty:	U = 1.84 dB
Radiated Emission Expanded Uncertainty :	U = 2.96 dB

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 (μ V)	
	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, DVI & HDMI Input).

3.5.5 In HDMI test mode, PC system played music and sent audio signal to EUT through HDMI 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:

Test Mode
D-Sub 640*480@60Hz
D-Sub 1024*768@60Hz
D-Sub 1680*1050@60Hz
D-Sub 1920*1080@60Hz
DVI 640*480@60Hz
DVI 1024*768@60Hz
DVI 1680*1050@60Hz
DVI 1920*1080@60Hz
HDMI 640*480@60Hz
HDMI 1024*768@60Hz
HDMI 1680*1050@60Hz
HDMI 1920*1080@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 ESHS10 was set at 10 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.

Test Mode	Data Page
D-Sub 640*480@60Hz	P12
D-Sub 1024*768@60Hz	P13
D-Sub 1680*1050@60Hz	P14
D-Sub 1920*1080@60Hz	P15
DVI 640*480@60Hz	P16
DVI 1024*768@60Hz	P17
DVI 1680*1050@60Hz	P18
DVI 1920*1080@60Hz	P19
HDMI 640*480@60Hz	P20
HDMI 1024*768@60Hz	P21
HDMI 1680*1050@60Hz	P22
HDMI 1920*1080@60Hz	P23

NOTE 1 – Factor = Cable Loss + AMN Factor.

NOTE 2 – Emission Level = Meter Reading + Factor.

NOTE 3 – “QP” means “Quasi-Peak” values, “AV” means “Average” values.

NOTE 4 – The worst case is for HDMI 640*480@60Hz test mode. The worst emission is detected at 0.213 MHz (Average Value) with corrected signal level of 42.89 dB (μV) (limit is 53.10 dB (μV)), when the Neutral of the EUT is connected to AMN.

EUT : LCD Monitor Temperature : 22°C

Model No. : W2261VT Humidity : 60%RH

Serial No. : E08072911 Date of Test : Aug 08, 2008

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	0.213	45.64	0.15	45.79	63.10	17.31	QP
	0.283	39.96	0.15	40.11	60.72	20.61	
	0.358	37.49	0.16	37.65	58.78	21.13	
	0.567	34.54	0.18	34.72	56.00	21.28	
	0.779	32.35	0.18	32.53	56.00	23.47	
	2.554	37.45	0.27	37.72	56.00	18.28	
	0.213	41.64	0.15	41.79	53.10	11.31	AV
	0.283	33.96	0.15	34.11	50.72	16.61	
	0.358	30.49	0.16	30.65	48.78	18.13	
	0.567	28.54	0.18	28.72	46.00	17.28	
	0.779	27.35	0.18	27.53	46.00	18.47	
	2.554	31.45	0.27	31.72	46.00	14.28	
Neutral	0.209	46.95	0.15	47.10	63.23	16.13	QP
	0.282	41.47	0.15	41.62	60.76	19.14	
	0.354	41.03	0.16	41.19	58.87	17.68	
	0.494	35.31	0.18	35.49	56.10	20.61	
	2.765	33.97	0.24	34.21	56.00	21.79	
	6.557	36.03	0.24	36.27	60.00	23.73	
	0.209	41.95	0.15	42.10	53.23	11.13	AV
	0.282	37.47	0.15	37.62	50.76	13.14	
	0.354	35.03	0.16	35.19	48.87	13.68	
	0.494	30.31	0.18	30.49	46.10	15.61	
	2.765	28.97	0.24	29.21	46.00	16.79	
	6.557	31.03	0.24	31.27	50.00	18.73	

TEST ENGINEER: TOM SI

EUT : LCD Monitor Temperature : 22°C

Model No. : W2261VT Humidity : 60%RH

Serial No. : E08072911 Date of Test : Aug 08, 2008

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	0.213	45.88	0.15	46.03	63.10	17.07	QP
	0.283	39.60	0.15	39.75	60.72	20.97	
	0.358	37.21	0.16	37.37	58.78	21.41	
	0.567	34.56	0.18	34.74	56.00	21.26	
	0.779	32.48	0.18	32.66	56.00	23.34	
	2.554	37.29	0.27	37.56	56.00	18.44	
	0.213	41.88	0.15	42.03	53.10	11.07	AV
	0.283	34.60	0.15	34.75	50.72	15.97	
	0.358	34.21	0.16	34.37	48.78	14.41	
	0.567	28.56	0.18	28.74	46.00	17.26	
	0.779	27.48	0.18	27.66	46.00	18.34	
	2.554	30.29	0.27	30.56	46.00	15.44	
Neutral	0.213	45.92	0.15	46.07	63.10	17.03	QP
	0.286	39.56	0.15	39.71	60.63	20.92	
	0.358	37.54	0.16	37.70	58.78	21.08	
	0.567	34.58	0.18	34.76	56.00	21.24	
	0.779	32.44	0.17	32.61	56.00	23.39	
	2.765	37.18	0.24	37.42	56.00	18.58	
	0.213	39.92	0.15	40.07	53.10	13.03	AV
	0.286	31.56	0.15	31.71	50.63	18.92	
	0.358	30.54	0.16	30.70	48.78	18.08	
	0.567	29.58	0.18	29.76	46.00	16.24	
	0.779	27.44	0.17	27.61	46.00	18.39	
	2.765	31.18	0.24	31.42	46.00	14.58	

TEST ENGINEER: TOM SI

EUT : LCD Monitor Temperature : 22°C

Model No. : W2261VT Humidity : 60%RH

Serial No. : E08072911 Date of Test : Aug 08, 2008

Test Mode : D-Sub 1680*1050@60Hz

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.214	45.84	0.15	45.99	63.05	17.06	QP
	0.283	39.06	0.15	39.21	60.72	21.51	
	0.354	37.70	0.16	37.86	58.87	21.01	
	0.426	34.62	0.17	34.79	57.33	22.54	
	0.567	34.54	0.18	34.72	56.00	21.28	
	2.554	36.63	0.27	36.90	56.00	19.10	
	0.214	40.84	0.15	40.99	53.05	12.06	AV
	0.283	33.06	0.15	33.21	50.72	17.51	
	0.354	30.70	0.16	30.86	48.87	18.01	
	0.426	28.62	0.17	28.79	47.33	18.54	
	0.567	27.54	0.18	27.72	46.00	18.28	
	2.554	29.63	0.27	29.90	46.00	16.10	
Neutral	0.214	44.95	0.15	45.10	63.05	17.95	QP
	0.354	37.60	0.16	37.76	58.87	21.11	
	0.426	34.94	0.17	35.11	57.33	22.22	
	0.567	34.60	0.18	34.78	56.00	21.22	
	2.554	37.67	0.24	37.91	56.00	18.09	
	2.765	37.10	0.24	37.34	56.00	18.66	
	0.214	40.95	0.15	41.10	53.05	11.95	AV
	0.354	30.60	0.16	30.76	48.87	18.11	
	0.426	27.94	0.17	28.11	47.33	19.22	
	0.567	30.60	0.18	30.78	46.00	15.22	
	2.554	32.67	0.24	32.91	46.00	13.09	
	2.765	31.10	0.24	31.34	46.00	14.66	

TEST ENGINEER: TOM SI

EUT : LCD Monitor Temperature : 22°C

Model No. : W2261VT Humidity : 60%RH

Serial No. : E08072911 Date of Test : Aug 08, 2008

Test Mode : D-Sub 1920*1080@60Hz

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.213	46.43	0.15	46.58	63.10	16.52	QP
	0.358	37.76	0.16	37.92	58.78	20.86	
	0.426	33.38	0.17	33.55	57.33	23.78	
	0.567	34.62	0.18	34.80	56.00	21.20	
	0.779	32.37	0.18	32.55	56.00	23.45	
	2.707	38.59	0.27	38.86	56.00	17.14	
	0.213	40.43	0.15	40.58	53.10	12.52	AV
	0.358	32.76	0.16	32.92	48.78	15.86	
	0.426	27.38	0.17	27.55	47.33	19.78	
	0.567	29.62	0.18	29.80	46.00	16.20	
	0.779	28.37	0.18	28.55	46.00	17.45	
	2.707	32.59	0.27	32.86	46.00	13.14	
Neutral	0.211	48.14	0.15	48.29	63.18	14.89	QP
	0.283	41.50	0.15	41.65	60.72	19.07	
	0.352	39.93	0.16	40.09	58.91	18.82	
	0.567	35.44	0.18	35.62	56.00	20.38	
	2.707	35.45	0.24	35.69	56.00	20.31	
	6.557	36.56	0.24	36.80	60.00	23.20	
	0.211	41.14	0.15	41.29	53.18	11.89	AV
	0.283	35.50	0.15	35.65	50.72	15.07	
	0.352	33.93	0.16	34.09	48.91	14.82	
	0.567	28.44	0.18	28.62	46.00	17.38	
	2.707	28.45	0.24	28.69	46.00	17.31	
	6.557	29.56	0.24	29.80	50.00	20.20	

TEST ENGINEER: TOM SI

EUT : LCD Monitor Temperature : 22°C

Model No. : W2261VT Humidity : 60%RH

Serial No. : E08072911 Date of Test : Aug 08, 2008

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	0.214	45.74	0.15	45.89	63.05	17.16	QP
	0.286	38.54	0.15	38.69	60.63	21.94	
	0.358	36.99	0.16	37.15	58.78	21.63	
	0.567	34.96	0.18	35.14	56.00	20.86	
	0.779	32.17	0.18	32.35	56.00	23.65	
	2.554	37.01	0.27	37.28	56.00	18.72	
	0.214	41.74	0.15	41.89	53.05	11.16	AV
	0.286	32.54	0.15	32.69	50.63	17.94	
	0.358	30.99	0.16	31.15	48.78	17.63	
	0.567	29.96	0.18	30.14	46.00	15.86	
	0.779	25.17	0.18	25.35	46.00	20.65	
	2.554	32.01	0.27	32.28	46.00	13.72	
Neutral	0.211	47.23	0.15	47.38	63.18	15.80	QP
	0.282	41.16	0.15	41.31	60.76	19.45	
	0.354	39.85	0.16	40.01	58.87	18.86	
	0.567	34.90	0.18	35.08	56.00	20.92	
	2.707	34.85	0.24	35.09	56.00	20.91	
	6.557	36.29	0.24	36.53	60.00	23.47	
	0.211	42.23	0.15	42.38	53.18	10.80	AV
	0.282	35.16	0.15	35.31	50.76	15.45	
	0.354	32.85	0.16	33.01	48.87	15.86	
	0.567	28.90	0.18	29.08	46.00	16.92	
	2.707	29.85	0.24	30.09	46.00	15.91	
	6.557	30.29	0.24	30.53	50.00	19.47	

TEST ENGINEER: TOM SI

EUT : LCD Monitor Temperature : 22°C

Model No. : W2261VT Humidity : 60%RH

Serial No. : E08072911 Date of Test : Aug 08, 2008

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	0.213	45.68	0.15	45.83	63.10	17.27	QP
	0.286	39.38	0.15	39.53	60.63	21.10	
	0.354	36.49	0.16	36.65	58.87	22.22	
	0.426	33.86	0.17	34.03	57.33	23.30	
	0.567	34.68	0.18	34.86	56.00	21.14	
	2.707	38.79	0.27	39.06	56.00	16.94	
	0.213	40.68	0.15	40.83	53.10	12.27	AV
	0.286	33.38	0.15	33.53	50.63	17.10	
	0.354	31.49	0.16	31.65	48.87	17.22	
	0.426	28.86	0.17	29.03	47.33	18.30	
	0.567	27.68	0.18	27.86	46.00	18.14	
	2.707	32.79	0.27	33.06	46.00	12.94	
Neutral	0.211	47.19	0.15	47.34	63.18	15.84	QP
	0.283	43.16	0.15	43.31	60.72	17.41	
	0.354	38.95	0.16	39.11	58.87	19.76	
	0.494	33.72	0.18	33.90	56.10	22.20	
	2.554	33.57	0.24	33.81	56.00	22.19	
	6.557	37.56	0.24	37.80	60.00	22.20	
	0.211	42.19	0.15	42.34	53.18	10.84	AV
	0.283	38.16	0.15	38.31	50.72	12.41	
	0.354	33.95	0.16	34.11	48.87	14.76	
	0.494	29.72	0.18	29.90	46.10	16.20	
	2.554	26.57	0.24	26.81	46.00	19.19	
	6.557	31.56	0.24	31.80	50.00	18.20	

TEST ENGINEER: TOM SI

EUT : LCD Monitor Temperature : 22°C

Model No. : W2261VT Humidity : 60%RH

Serial No. : E08072911 Date of Test : Aug 08, 2008

Test Mode : DVI 1680*1050@60Hz

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.211	45.33	0.15	45.48	63.18	17.70	QP
	0.282	39.88	0.15	40.03	60.76	20.73	
	0.352	36.71	0.16	36.87	58.91	22.04	
	0.426	34.88	0.17	35.05	57.33	22.28	
	0.779	32.05	0.18	32.23	56.00	23.77	
	2.707	37.13	0.27	37.40	56.00	18.60	
	0.211	39.33	0.15	39.48	53.18	13.70	AV
	0.282	34.88	0.15	35.03	50.76	15.73	
	0.352	30.71	0.16	30.87	48.91	18.04	
	0.426	30.88	0.17	31.05	47.33	16.28	
	0.779	25.05	0.18	25.23	46.00	20.77	
	2.707	32.13	0.27	32.40	46.00	13.60	
Neutral	0.216	47.43	0.15	47.58	62.96	15.38	QP
	0.286	41.24	0.15	41.39	60.63	19.24	
	0.354	39.41	0.16	39.57	58.87	19.30	
	0.567	34.58	0.18	34.76	56.00	21.24	
	0.743	31.70	0.17	31.87	56.00	24.13	
	2.707	33.67	0.24	33.91	56.00	22.09	
	0.216	42.43	0.15	42.58	52.96	10.38	AV
	0.286	34.24	0.15	34.39	50.63	16.24	
	0.354	34.41	0.16	34.57	48.87	14.30	
	0.567	29.58	0.18	29.76	46.00	16.24	
	0.743	25.70	0.17	25.87	46.00	20.13	
	2.707	28.67	0.24	28.91	46.00	17.09	

TEST ENGINEER: TOM SI

EUT : LCD Monitor Temperature : 22°C

Model No. : W2261VT Humidity : 60%RH

Serial No. : E08072911 Date of Test : Aug 08, 2008

Test Mode : DVI 1920*1080@60Hz

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.214	44.82	0.15	44.97	63.05	18.08	QP
	0.283	39.16	0.15	39.31	60.72	21.41	
	0.358	37.29	0.16	37.45	58.78	21.33	
	0.567	33.99	0.18	34.17	56.00	21.83	
	0.779	31.97	0.18	32.15	56.00	23.85	
	2.707	37.35	0.27	37.62	56.00	18.38	
	0.214	38.82	0.15	38.97	53.05	14.08	AV
	0.283	34.16	0.15	34.31	50.72	16.41	
	0.358	31.29	0.16	31.45	48.78	17.33	
	0.567	27.99	0.18	28.17	46.00	17.83	
	0.779	27.97	0.18	28.15	46.00	17.85	
	2.707	30.35	0.27	30.62	46.00	15.38	
Neutral	0.207	47.76	0.15	47.91	63.32	15.41	QP
	0.283	42.02	0.15	42.17	60.72	18.55	
	0.358	37.49	0.16	37.65	58.78	21.13	
	0.428	34.40	0.17	34.57	57.29	22.72	
	0.570	32.35	0.18	32.53	56.00	23.47	
	2.707	34.01	0.24	34.25	56.00	21.75	
	0.207	41.76	0.15	41.91	53.32	11.41	AV
	0.283	38.02	0.15	38.17	50.72	12.55	
	0.358	30.49	0.16	30.65	48.78	18.13	
	0.428	28.40	0.17	28.57	47.29	18.72	
	0.570	28.35	0.18	28.53	46.00	17.47	
	2.707	27.01	0.24	27.25	46.00	18.75	

TEST ENGINEER: TOM SI

EUT : LCD Monitor Temperature : 22°C

Model No. : W2261VT Humidity : 60%RH

Serial No. : E08072911 Date of Test : Aug 08, 2008

Test Mode : HDMI 640*480@60Hz

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.213	46.45	0.15	46.60	63.10	16.50	QP
	0.354	37.84	0.16	38.00	58.87	20.87	
	0.426	36.19	0.17	36.36	57.33	20.97	
	0.567	34.60	0.18	34.78	56.00	21.22	
	0.637	33.54	0.18	33.72	56.00	22.28	
	2.554	36.50	0.27	36.77	56.00	19.23	
	0.213	40.45	0.15	40.60	53.10	12.50	AV
	0.354	31.84	0.16	32.00	48.87	16.87	
	0.426	31.19	0.17	31.36	47.33	15.97	
	0.567	30.60	0.18	30.78	46.00	15.22	
	0.637	28.54	0.18	28.72	46.00	17.28	
	2.554	31.50	0.27	31.77	46.00	14.23	
Neutral	0.213	47.74	0.15	47.89	63.10	15.21	QP
	0.354	41.03	0.16	41.19	58.87	17.68	
	0.567	35.65	0.18	35.83	56.00	20.17	
	0.708	32.36	0.17	32.53	56.00	23.47	
	2.707	34.38	0.24	34.62	56.00	21.38	
	6.386	36.71	0.25	36.96	60.00	23.04	
	0.213	42.74	0.15	42.89	53.10	10.21	AV
	0.354	35.03	0.16	35.19	48.87	13.68	
	0.567	30.65	0.18	30.83	46.00	15.17	
	0.708	27.36	0.17	27.53	46.00	18.47	
	2.707	29.38	0.24	29.62	46.00	16.38	
	6.386	29.71	0.25	29.96	50.00	20.04	

TEST ENGINEER: TOM SI

EUT : LCD Monitor Temperature : 22°C

Model No. : W2261VT Humidity : 60%RH

Serial No. : E08072911 Date of Test : Aug 08, 2008

Test Mode : HDMI 1024*768@60Hz

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.214	47.07	0.15	47.22	63.05	15.83	QP
	0.352	39.03	0.16	39.19	58.91	19.72	
	0.567	34.74	0.18	34.92	56.00	21.08	
	0.637	33.46	0.18	33.64	56.00	22.36	
	0.779	32.94	0.18	33.12	56.00	22.88	
	2.554	36.42	0.27	36.69	56.00	19.31	
	0.214	41.07	0.15	41.22	53.05	11.83	AV
	0.352	32.03	0.16	32.19	48.91	16.72	
	0.567	28.74	0.18	28.92	46.00	17.08	
	0.637	26.46	0.18	26.64	46.00	19.36	
	0.779	27.94	0.18	28.12	46.00	17.88	
	2.554	31.42	0.27	31.69	46.00	14.31	
Neutral	0.211	46.33	0.15	46.48	63.18	16.70	QP
	0.283	41.60	0.15	41.75	60.72	18.97	
	0.354	40.39	0.16	40.55	58.87	18.32	
	0.567	35.87	0.18	36.05	56.00	19.95	
	2.707	33.27	0.24	33.51	56.00	22.49	
	6.386	38.06	0.25	38.31	60.00	21.69	
	0.211	41.33	0.15	41.48	53.18	11.70	AV
	0.283	36.60	0.15	36.75	50.72	13.97	
	0.354	35.39	0.16	35.55	48.87	13.32	
	0.567	30.87	0.18	31.05	46.00	14.95	
	2.707	28.27	0.24	28.51	46.00	17.49	
	6.386	32.06	0.25	32.31	50.00	17.69	

TEST ENGINEER: TOM SI

EUT : LCD Monitor Temperature : 22°C

Model No. : W2261VT Humidity : 60%RH

Serial No. : E08072911 Date of Test : Aug 08, 2008

Test Mode : HDMI 1680*1050@60Hz

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.213	45.19	0.15	45.34	63.10	17.76	QP
	0.354	38.97	0.16	39.13	58.87	19.74	
	0.426	35.75	0.17	35.92	57.33	21.41	
	0.567	34.74	0.18	34.92	56.00	21.08	
	1.636	32.95	0.22	33.17	56.00	22.83	
	2.422	36.30	0.26	36.56	56.00	19.44	
	0.213	40.19	0.15	40.34	53.10	12.76	AV
	0.354	32.97	0.16	33.13	48.87	15.74	
	0.426	28.75	0.17	28.92	47.33	18.41	
	0.567	28.74	0.18	28.92	46.00	17.08	
	1.636	26.95	0.22	27.17	46.00	18.83	
	2.422	31.30	0.26	31.56	46.00	14.44	
Neutral	0.213	46.69	0.15	46.84	63.10	16.26	QP
	0.354	40.55	0.16	40.71	58.87	18.16	
	0.567	35.69	0.18	35.87	56.00	20.13	
	2.422	31.63	0.23	31.86	56.00	24.14	
	2.707	33.15	0.24	33.39	56.00	22.61	
	6.386	36.49	0.25	36.74	60.00	23.26	
	0.213	40.69	0.15	40.84	53.10	12.26	AV
	0.354	34.55	0.16	34.71	48.87	14.16	
	0.567	29.69	0.18	29.87	46.00	16.13	
	2.422	26.63	0.23	26.86	46.00	19.14	
	2.707	26.15	0.24	26.39	46.00	19.61	
	6.386	31.49	0.25	31.74	50.00	18.26	

TEST ENGINEER: TOM SI

EUT : LCD Monitor Temperature : 22°C

Model No. : W2261VT Humidity : 60%RH

Serial No. : E08072911 Date of Test : Aug 08, 2008

Test Mode : HDMI 1920*1080@60Hz

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.209	45.86	0.15	46.01	63.23	17.22	QP
	0.354	38.10	0.16	38.26	58.87	20.61	
	0.426	35.95	0.17	36.12	57.33	21.21	
	0.567	35.90	0.18	36.08	56.00	19.92	
	2.422	36.24	0.26	36.50	56.00	19.50	
	2.765	36.80	0.27	37.07	56.00	18.93	
	0.209	39.86	0.15	40.01	53.23	13.22	AV
	0.354	30.10	0.16	30.26	48.87	18.61	
	0.426	28.95	0.17	29.12	47.33	18.21	
	0.567	27.90	0.18	28.08	46.00	17.92	
	2.422	30.24	0.26	30.50	46.00	15.50	
	2.765	29.80	0.27	30.07	46.00	15.93	
Neutral	0.214	47.98	0.15	48.13	63.05	14.92	QP
	0.282	42.06	0.15	42.21	60.76	18.55	
	0.354	39.57	0.16	39.73	58.87	19.14	
	0.567	35.36	0.18	35.54	56.00	20.46	
	2.707	33.45	0.24	33.69	56.00	22.31	
	6.386	36.73	0.25	36.98	60.00	23.02	
	0.214	40.98	0.15	41.13	53.05	11.92	AV
	0.282	35.06	0.15	35.21	50.76	15.55	
	0.354	32.57	0.16	32.73	48.87	16.14	
	0.567	28.36	0.18	28.54	46.00	17.46	
	2.707	25.45	0.24	25.69	46.00	20.31	
	6.386	31.73	0.25	31.98	50.00	18.02	

TEST ENGINEER: TOM SI

4 RADIATED EMISSION TEST

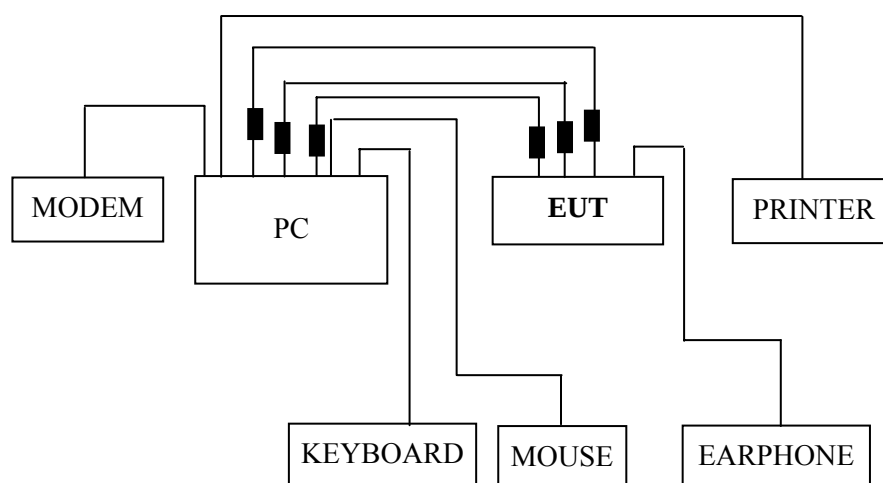
4.1 Test Equipment

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, 2008	Mar 07, 2009
2.	Preamplifier	Agilent	8447D	2944A10548	Mar 19, 2008	Sep 19, 2008
3.	Preamplifier	HP	8449B	3008A00864	May 19, 2008	May 19, 2009
4.	Bi-log Antenna	TESEQ	CBL6112D	23193	May 14, 2008	May 14, 2009
5.	Spectrum	Agilent	E7405A	MY45106600	May 19, 2008	May 19, 2009
6.	Software	Audix	E3	SET00200 9912M295-2	--	--

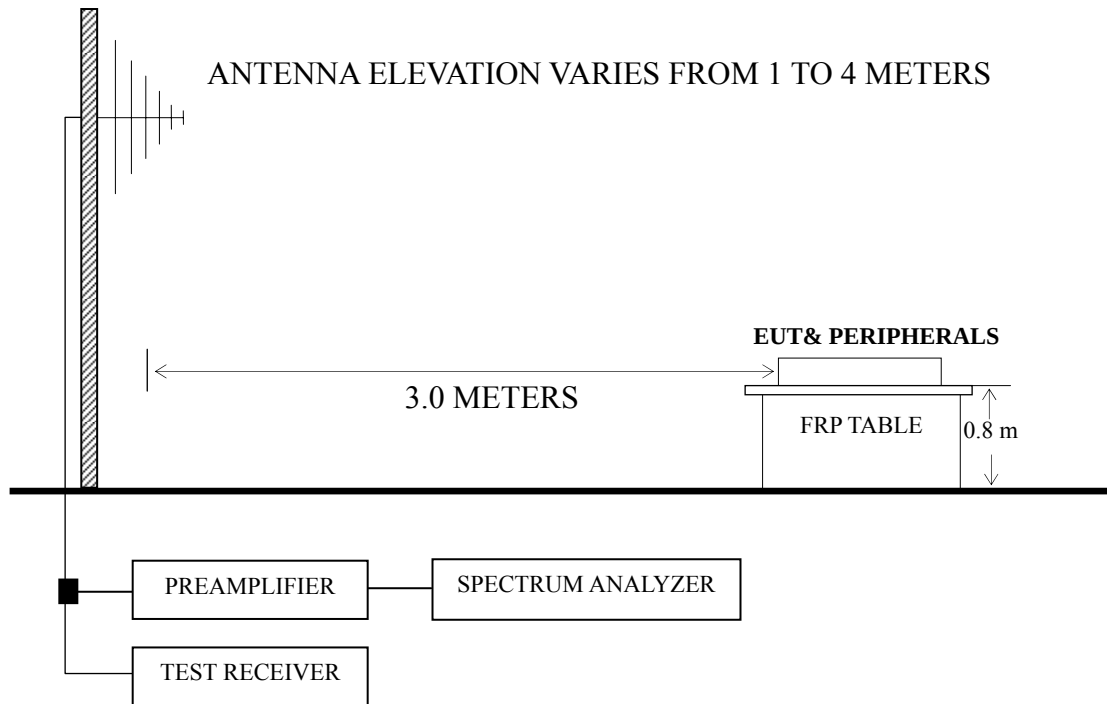
4.2 Block Diagram of Test Setup

4.2.1 EUT and Peripherals



■ : Ferrite core

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	
		($\mu\text{V/m}$)	dB ($\mu\text{V/m}$)
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 ($\mu\text{V/m}$) = 20 log Emission Level ($\mu\text{V/m}$)

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 below 1GHz and The Spectrum Agilent E7405A was set at 1MHz above 1GHz.

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/DVI/HDMI 1680*1050@60Hz and D-Sub/DVI/HDMI 1920*1080@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.

Test Mode	Data Page
D-Sub 640*480@60Hz	P28
D-Sub 1024*768@60Hz	P29
D-Sub 1680*1050@60Hz	P30
D-Sub 1920*1080@60Hz	P31
DVI 640*480@60Hz	P32
DVI 1024*768@60Hz	P33
DVI 1680*1050@60Hz	P34
DVI 1920*1080@60Hz	P35
HDMI 640*480@60Hz	P36
HDMI 1024*768@60Hz	P37
HDMI 1680*1050@60Hz	P38
HDMI 1920*1080@60Hz	P39

NOTE 1 – Emission Level = Antenna Factor + Cable Loss + Meter Reading.($< 1\text{GHz}$)

NOTE 2 – Emission Level = Antenna Factor + Cable Loss – Preamp Factor + Meter Reading.($> 1\text{GHz}$)

NOTE 3 – The emission levels that are 20dB below the official limit are not reported.

NOTE 4 – 0° was the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.

NOTE 5 – 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.

NOTE 6 – The worst case is for HDMI 1920*1080@60Hz test mode. The worst emission at horizontal polarization was detected at 891.360 MHz with corrected signal level of 41.02 dB ($\mu\text{V/m}$) (limit is 46.00 dB ($\mu\text{V/m}$)), when the antenna was 1.20 m height and the turntable was at 130° . The worst emission at vertical polarization was detected at 742.950 MHz with corrected signal level of 39.13 dB ($\mu\text{V/m}$) (limit is 46.00 dB ($\mu\text{V/m}$)), when the antenna was 1.00 m height and the turntable was at 300° .

EUT : LCD Monitor Temperature : 22°C

Model No. : W2261VT Humidity : 60%RH

Serial No. : E08072911 Date of Test : Aug 05, 2008

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	49.400	16.23	9.16	0.99	26.38	40.00	13.62
	75.590	17.84	7.24	1.47	26.55	40.00	13.45
	114.390	12.73	12.64	1.81	27.18	43.50	16.32
	194.900	22.61	10.51	2.30	35.42	43.50	8.08
	244.370	16.15	12.68	2.75	31.58	46.00	14.42
	741.010	1.04	20.13	5.07	26.24	46.00	19.76
Vertical	42.610	20.85	12.39	0.96	34.20	40.00	5.80
	75.590	22.84	7.24	1.47	31.55	40.00	8.45
	140.580	17.48	12.05	2.01	31.54	43.50	11.96
	280.260	16.35	13.55	3.00	32.90	46.00	13.10
	480.080	7.92	17.65	3.92	29.49	46.00	16.51
	980.600	12.18	22.27	5.96	40.41	54.00	13.59

TEST ENGINEER: JACKY CHEN

EUT : LCD Monitor Temperature : 22°C

Model No. : W2261VT Humidity : 60%RH

Serial No. : E08072911 Date of Test : Aug 05, 2008

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	49.400	16.90	9.16	0.99	27.05	40.00	12.95
	74.620	18.93	7.11	1.46	27.50	40.00	12.50
	138.640	16.96	12.17	2.00	31.13	43.50	12.37
	194.900	21.70	10.51	2.30	34.51	43.50	8.99
	490.750	7.12	17.78	3.96	28.86	46.00	17.14
	980.600	8.41	22.27	5.96	36.64	54.00	17.36
Vertical	42.610	17.12	12.39	0.96	30.47	40.00	9.53
	72.680	20.81	6.85	1.44	29.10	40.00	10.90
	194.900	15.40	10.51	2.30	28.21	43.50	15.29
	280.260	12.81	13.55	3.00	29.36	46.00	16.64
	602.300	3.10	19.21	4.27	26.58	46.00	19.42
	961.200	9.01	22.16	5.89	37.06	54.00	16.94

TEST ENGINEER: JACKY CHEN

EUT : LCD Monitor Temperature : 22°C

Model No. : W2261VT Humidity : 60%RH

Serial No. : E08072911 Date of Test : Aug 05, 2008

Test Mode : D-Sub 1680*1050@60Hz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	41.640	17.35	13.02	0.96	--	31.33	40.00	8.67	QP
	75.590	20.48	7.24	1.47	--	29.19	40.00	10.81	
	139.610	13.37	12.12	2.01	--	27.50	43.50	16.00	
	244.370	16.04	12.68	2.75	--	31.47	46.00	14.53	
	401.510	9.00	16.52	3.62	--	29.14	46.00	16.86	
	961.200	10.01	22.16	5.89	--	38.06	54.00	15.94	
	1119.000	51.01	23.24	6.51	37.37	43.39	74.00	30.61	PK
	1259.000	52.83	24.19	6.85	37.03	46.84	74.00	27.16	
	1399.000	52.33	25.20	7.01	36.73	47.81	74.00	26.19	
	1472.000	54.92	25.64	7.09	36.58	51.07	74.00	22.93	
	1542.000	51.33	26.07	7.39	36.44	48.35	74.00	25.65	
	1720.000	48.11	26.71	8.36	36.13	47.05	74.00	26.95	
Vertical	42.610	19.91	12.39	0.96	--	33.26	40.00	6.74	QP
	75.590	22.73	7.24	1.47	--	31.44	40.00	8.56	
	139.610	18.71	12.12	2.01	--	32.84	43.50	10.66	
	194.900	22.14	10.51	2.30	--	34.95	43.50	8.55	
	280.260	15.80	13.55	3.00	--	32.35	46.00	13.65	
	489.780	11.94	17.78	3.96	--	33.68	46.00	12.32	
	1122.000	58.93	23.24	6.51	37.37	51.31	74.00	22.69	PK
	1166.000	60.19	23.54	6.67	37.26	53.14	74.00	20.86	
	1262.000	54.68	24.19	6.86	37.02	48.71	74.00	25.29	
	1399.000	50.55	25.20	7.01	36.73	46.03	74.00	27.97	
	1645.000	53.62	26.50	8.03	36.26	51.89	74.00	22.11	
	1849.000	46.29	27.17	8.76	35.93	46.29	74.00	27.71	

TEST ENGINEER: JACKY CHEN

EUT : LCD Monitor Temperature : 22°C

Model No. : W2261VT Humidity : 60%RH

Serial No. : E08072911 Date of Test : Aug 05, 2008

Test Mode : D-Sub 1920*1080@60Hz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	75.590	19.21	7.24	1.47	--	27.92	40.00	12.08	QP
	139.610	18.93	12.12	2.01	--	33.06	43.50	10.44	
	194.900	23.50	10.51	2.30	--	36.31	43.50	7.19	
	244.370	16.94	12.68	2.75	--	32.37	46.00	13.63	
	280.260	9.46	13.55	3.00	--	26.01	46.00	19.99	
	401.510	8.62	16.52	3.62	--	28.76	46.00	17.24	
	1119.000	55.72	23.24	6.51	37.37	48.10	74.00	25.90	PK
	1243.000	51.53	24.06	6.84	37.07	45.36	74.00	28.64	
	1402.000	53.14	25.20	7.01	36.72	48.63	74.00	25.37	
	1449.000	55.52	25.49	7.07	36.63	51.45	74.00	22.55	
	1553.000	50.96	26.15	7.48	36.43	48.16	74.00	25.84	
	1737.000	45.51	26.74	8.41	36.11	44.55	74.00	29.45	
Vertical	41.640	18.72	13.02	0.96	--	32.70	40.00	7.30	QP
	75.590	18.69	7.24	1.47	--	27.40	40.00	12.60	
	139.610	13.69	12.12	2.01	--	27.82	43.50	15.68	
	194.900	16.48	10.51	2.30	--	29.29	43.50	14.21	
	280.260	11.23	13.55	3.00	--	27.78	46.00	18.22	
	980.600	6.88	22.27	5.96	--	35.11	54.00	18.89	
	1122.000	57.67	23.24	6.51	37.37	50.05	74.00	23.95	PK
	1237.000	56.46	24.02	6.84	37.09	50.23	74.00	23.77	
	1303.000	52.67	24.54	6.91	36.94	47.18	74.00	26.82	
	1553.000	49.95	26.15	7.48	36.43	47.15	74.00	26.85	
	1661.000	49.65	26.56	8.12	36.24	48.09	74.00	25.91	
	1849.000	47.25	27.17	8.76	35.93	47.25	74.00	26.75	

TEST ENGINEER: JACKY CHEN

EUT : LCD Monitor Temperature : 22°C

Model No. : W2261VT Humidity : 60%RH

Serial No. : E08072911 Date of Test : Aug 05, 2008

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	75.590	17.64	7.24	1.47	26.35	40.00	13.65
	139.610	15.37	12.12	2.01	29.50	43.50	14.00
	312.270	14.33	14.24	3.18	31.75	46.00	14.25
	401.510	9.34	16.52	3.62	29.48	46.00	16.52
	623.640	11.40	19.33	4.38	35.11	46.00	10.89
	742.950	11.97	20.13	5.07	37.17	46.00	8.83
Vertical	39.700	17.00	14.08	0.95	32.03	40.00	7.97
	77.530	22.50	7.49	1.50	31.49	40.00	8.51
	169.680	13.84	10.20	2.18	26.22	43.50	17.28
	312.270	18.43	14.24	3.18	35.85	46.00	10.15
	468.440	9.91	17.49	3.87	31.27	46.00	14.73
	856.440	9.03	21.28	5.55	35.86	46.00	10.14

TEST ENGINEER: JACKY CHEN

EUT : LCD Monitor Temperature : 22°C

Model No. : W2261VT Humidity : 60%RH

Serial No. : E08072911 Date of Test : Aug 05, 2008

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	75.590	18.77	7.24	1.47	27.48	40.00	12.52
	139.610	18.85	12.12	2.01	32.98	43.50	10.52
	312.270	15.54	14.24	3.18	32.96	46.00	13.04
	468.440	9.00	17.49	3.87	30.36	46.00	15.64
	623.640	8.71	19.33	4.38	32.42	46.00	13.58
	965.080	9.45	22.16	5.92	37.53	54.00	16.47
Vertical	39.700	16.10	14.08	0.95	31.13	40.00	8.87
	83.350	18.48	8.30	1.55	28.33	40.00	11.67
	138.640	12.13	12.17	2.00	26.30	43.50	17.20
	279.290	12.63	13.52	3.00	29.15	46.00	16.85
	312.270	16.97	14.24	3.18	34.39	46.00	11.61
	446.130	9.18	17.17	3.79	30.14	46.00	15.86

TEST ENGINEER: JACKY CHEN

EUT : LCD Monitor Temperature : 22°C

Model No. : W2242TET Humidity : 60%RH

Serial No. : E08072911 Date of Test : Aug 05, 2008

Test Mode : DVI 1680*1050@60Hz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	75.590	18.37	7.24	1.47	--	27.08	40.00	12.92	QP
	139.610	17.22	12.12	2.01	--	31.35	43.50	12.15	
	200.720	12.34	10.74	2.33	--	25.41	43.50	18.09	
	312.270	14.01	14.24	3.18	--	31.43	46.00	14.57	
	593.570	11.83	19.14	4.22	--	35.19	46.00	10.81	
	965.080	9.44	22.16	5.92	--	37.52	54.00	16.48	
	1120.000	55.69	23.24	6.51	37.37	48.07	74.00	25.93	PK
	1237.000	55.36	24.02	6.84	37.09	49.13	74.00	24.87	
	1331.000	54.98	24.74	6.94	36.88	49.78	74.00	24.22	
	1469.000	52.76	25.64	7.09	36.59	48.90	74.00	25.10	
	1596.000	48.25	26.36	7.66	36.35	45.92	74.00	28.08	
	1845.000	48.77	27.17	8.76	35.93	48.77	74.00	25.23	
Vertical	38.730	16.25	14.62	0.95	--	31.82	40.00	8.18	QP
	75.590	23.43	7.24	1.47	--	32.14	40.00	7.86	
	97.900	17.59	11.11	1.68	--	30.38	43.50	13.12	
	139.610	14.96	12.12	2.01	--	29.09	43.50	14.41	
	312.270	18.35	14.24	3.18	--	35.77	46.00	10.23	
	593.570	7.31	19.14	4.22	--	30.67	46.00	15.33	
	1122.000	53.52	23.24	6.51	37.37	45.90	74.00	28.10	PK
	1240.000	52.54	24.02	6.84	37.08	46.32	74.00	27.68	
	1399.000	54.56	25.20	7.01	36.73	50.04	74.00	23.96	
	1596.000	53.26	26.36	7.66	36.35	50.93	74.00	23.07	
	1849.000	53.55	27.17	8.76	35.93	53.55	74.00	20.45	
	1906.000	49.68	27.55	8.93	35.84	50.32	74.00	23.68	

TEST ENGINEER: JACKY CHEN

EUT : LCD Monitor Temperature : 22°C

Model No. : W2242TET Humidity : 60%RH

Serial No. : E08072911 Date of Test : Aug 05, 2008

Test Mode : DVI 1920*1080@60Hz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	38.730	12.52	14.62	0.95	--	28.09	40.00	11.91	QP
	73.650	23.39	6.98	1.46	--	31.83	40.00	8.17	
	139.610	17.26	12.12	2.01	--	31.39	43.50	12.11	
	312.270	14.68	14.24	3.18	--	32.10	46.00	13.90	
	593.570	13.72	19.14	4.22	--	37.08	46.00	8.92	
	742.950	12.42	20.13	5.07	--	37.62	46.00	8.38	
	1119.000	55.61	23.24	6.51	37.37	47.99	74.00	26.01	PK
	1189.000	53.12	23.65	6.75	37.20	46.32	74.00	27.68	
	1439.000	52.89	25.45	7.06	36.65	48.75	74.00	25.25	
	1553.000	53.33	26.15	7.48	36.43	50.53	74.00	23.47	
	1846.000	48.94	27.17	8.76	35.93	48.94	74.00	25.06	
	1906.000	50.35	27.55	8.93	35.84	50.99	74.00	23.01	
Vertical	38.730	16.35	14.62	0.95	--	31.92	40.00	8.08	QP
	75.590	19.19	7.24	1.47	--	27.90	40.00	12.10	
	139.610	12.29	12.12	2.01	--	26.42	43.50	17.08	
	173.560	12.61	10.09	2.21	--	24.91	43.50	18.59	
	312.270	15.55	14.24	3.18	--	32.97	46.00	13.03	
	593.570	4.29	19.14	4.22	--	27.65	46.00	18.35	
	1122.000	58.45	23.24	6.51	37.37	50.83	74.00	23.17	PK
	1166.000	59.14	23.54	6.67	37.26	52.09	74.00	21.91	
	1332.000	51.46	24.74	6.94	36.87	46.27	74.00	27.73	
	1472.000	54.62	25.64	7.09	36.58	50.77	74.00	23.23	
	1577.000	50.09	26.26	7.57	36.38	47.54	74.00	26.46	
	1845.000	47.62	27.17	8.76	35.93	47.62	74.00	26.38	

TEST ENGINEER: JACKY CHEN

EUT : LCD Monitor Temperature : 22°C

Model No. : W2261VT Humidity : 60%RH

Serial No. : E08072911 Date of Test : Aug 05, 2008

Test Mode : HDMI 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	49.400	12.58	9.16	0.99	22.73	40.00	17.27
	79.470	15.72	7.72	1.52	24.96	40.00	15.04
	139.610	17.19	12.12	2.01	31.32	43.50	12.18
	311.300	10.04	14.21	3.18	27.43	46.00	18.57
	527.610	8.22	18.27	4.06	30.55	46.00	15.45
	742.950	8.41	20.13	5.07	33.61	46.00	12.39
Vertical	34.850	11.80	16.97	0.93	29.70	40.00	10.30
	80.440	23.53	7.85	1.52	32.90	40.00	7.10
	149.310	17.89	11.35	2.07	31.31	43.50	12.19
	310.330	14.26	14.17	3.18	31.61	46.00	14.39
	446.130	12.27	17.17	3.79	33.23	46.00	12.77
	742.950	12.06	20.13	5.07	37.26	46.00	8.74

TEST ENGINEER: JACKY CHEN

EUT : LCD Monitor Temperature : 22°C

Model No. : W2261VT Humidity : 60%RH

Serial No. : E08072911 Date of Test : Aug 05, 2008

Test Mode : HDMI 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	80.440	16.36	7.85	1.52	25.73	40.00	14.27
	140.580	20.79	12.05	2.01	34.85	43.50	8.65
	296.750	17.58	13.86	3.10	34.54	46.00	11.46
	450.010	12.68	17.23	3.80	33.71	46.00	12.29
	593.570	16.32	19.14	4.22	39.68	46.00	6.32
	892.330	12.45	21.63	5.67	39.75	46.00	6.25
Vertical	42.610	17.26	12.39	0.96	30.61	40.00	9.39
	79.470	21.78	7.72	1.52	31.02	40.00	8.98
	139.610	15.80	12.12	2.01	29.93	43.50	13.57
	310.330	14.21	14.17	3.18	31.56	46.00	14.44
	475.230	13.04	17.60	3.91	34.55	46.00	11.45
	742.950	12.38	20.13	5.07	37.58	46.00	8.42

TEST ENGINEER: JACKY CHEN

EUT : LCD Monitor Temperature : 22°C

Model No. : W2242TET Humidity : 60%RH

Serial No. : E08072911 Date of Test : Aug 05, 2008

Test Mode : HDMI 1680*1050@60Hz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	79.470	15.00	7.72	1.52	--	24.24	40.00	15.76	QP
	138.640	15.27	12.17	2.00	--	29.44	43.50	14.06	
	200.720	14.11	10.74	2.33	--	27.18	43.50	16.32	
	296.750	12.82	13.86	3.10	--	29.78	46.00	16.22	
	446.130	10.09	17.17	3.79	--	31.05	46.00	14.95	
	593.570	16.55	19.14	4.22	--	39.91	46.00	6.09	
	1107.000	56.00	23.15	6.43	37.41	48.17	74.00	25.83	PK
	1192.000	54.38	23.67	6.75	37.19	47.61	74.00	26.39	
	1399.000	53.06	25.20	7.01	36.73	48.54	74.00	25.46	
	1557.000	50.78	26.15	7.48	36.42	47.99	74.00	26.01	
	1592.000	51.10	26.36	7.66	36.36	48.76	74.00	25.24	
	1849.000	51.03	27.17	8.76	35.93	51.03	74.00	22.97	
Vertical	42.610	17.98	12.39	0.96	--	31.33	40.00	8.67	QP
	81.410	23.00	8.02	1.53	--	32.55	40.00	7.45	
	139.610	18.90	12.12	2.01	--	33.03	43.50	10.47	
	310.330	14.12	14.17	3.18	--	31.47	46.00	14.53	
	593.570	9.05	19.14	4.22	--	32.41	46.00	13.59	
	742.950	12.43	20.13	5.07	--	37.63	46.00	8.37	
	1105.000	52.93	23.15	6.43	37.41	45.10	74.00	28.90	PK
	1165.000	53.66	23.51	6.67	37.26	46.58	74.00	27.42	
	1259.000	52.62	24.19	6.85	37.03	46.63	74.00	27.37	
	1324.000	55.84	24.70	6.94	36.89	50.59	74.00	23.41	
	1471.000	54.46	25.64	7.09	36.58	50.61	74.00	23.39	
	1653.000	46.04	26.54	8.03	36.25	44.36	74.00	29.64	

TEST ENGINEER: JACKY CHEN

EUT : LCD Monitor Temperature : 22°C

Model No. : W2242TET Humidity : 60%RH

Serial No. : E08072911 Date of Test : Aug 05, 2008

Test Mode : HDMI 1920*1080@60Hz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	139.610	17.35	12.12	2.01	--	31.48	43.50	12.02	QP
	296.750	16.64	13.86	3.10	--	33.60	46.00	12.40	
	446.130	17.79	17.17	3.79	--	38.75	46.00	7.25	
	593.570	12.75	19.14	4.22	--	36.11	46.00	9.89	
	891.360	13.74	21.63	5.65	--	41.02	46.00	4.98	
	139.610	17.35	12.12	2.01	--	31.48	43.50	12.02	PK
	1166.000	57.21	23.54	6.67	37.26	50.16	74.00	23.84	
	1321.000	53.69	24.66	6.92	36.89	48.38	74.00	25.62	
	1472.000	51.95	25.64	7.09	36.58	48.10	74.00	25.90	
	1598.000	52.24	26.40	7.76	36.35	50.05	74.00	23.95	
	1677.000	51.18	26.59	8.21	36.20	49.78	74.00	24.22	
	1849.000	48.65	27.17	8.76	35.93	48.65	74.00	25.35	
Vertical	42.610	18.53	12.39	0.96	--	31.88	40.00	8.12	QP
	80.440	21.83	7.85	1.52	--	31.20	40.00	8.80	
	139.610	18.59	12.12	2.01	--	32.72	43.50	10.78	
	446.130	8.92	17.17	3.79	--	29.88	46.00	16.12	
	593.570	11.96	19.14	4.22	--	35.32	46.00	10.68	
	742.950	13.93	20.13	5.07	--	39.13	46.00	6.87	
	1122.000	56.76	23.24	6.51	37.37	49.14	74.00	24.86	PK
	1166.000	58.31	23.54	6.67	37.26	51.26	74.00	22.74	
	1240.000	53.79	24.02	6.84	37.08	47.57	74.00	26.43	
	1444.000	53.17	25.45	7.06	36.64	49.04	74.00	24.96	
	1594.000	52.02	26.36	7.66	36.35	49.69	74.00	24.31	
	1849.000	46.45	27.17	8.76	35.93	46.45	74.00	27.55	

TEST ENGINEER: JACKY CHEN

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
Sponge	3940TKK091F	N/A	EXPAN	See Internal Photo Figure 13, 14
Sponge	3940TKK091F	13*9*3t	EXPAN	See Internal Photo Figure 20
Aluminum foil	7250TZZ002A	30*50	EXPAN	See Internal Photo Figure 21, 22
Sponge	3940TKK043E	55*9*2t	EXPAN	See Internal Photo Figure 23