

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

LCD Monitor

Model No.: W1642CT

Serial No.: 901INTX9A089

FCC ID : BEJW1642ST

Prepared For : LG Electronics U.S.A., Inc.
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Report No. : ACI-F09021
Date of Test : Mar 17 – 19, 2009
Date of Report : Mar 20, 2009

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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. : W1642CT
(B) Serial No. : 901INTX9A089
(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: W1642CT; S/N: 901INTX9A089) which was tested in 3m anechoic chamber Mar 17 – 19, 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 : Mar 17 – 19, 2009 Date of Report : Mar 20, 2009

Producer : Zeno Gu
ZENO GU / Assistant

Review : Dio Yang
DIO YANG / Supervisor

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

.....
Authorized Signature EMC Sammy Chen
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.	:	W1642CT
Serial No.	:	901INTX9A089
Real Power	:	20.00W
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 : LG Display M/N : LM156WH1 (TL) (E1)
Max Resolution	:	1360*768@60Hz
D-Sub Cable #1	:	Shielded, Detachable, 1.85m, with two cores on cable
D-Sub Cable #2	:	Shielded, Detachable, 1.85m, with two cores in connector
Power Cord	:	Unshielded, Detachable, 1.80m
Note	:	After evaluation, the D-Sub cable#1 was used in the test for it 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 AC In Port | : Connected with Power |

2.2 Peripherals

2.2.1 PC

Manufacturer : HP
Model Number : dx7400MT
Serial Number : CNG8130K89
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

2.3 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 = 1.26 dB
Radiated Emission Expanded Uncertainty :	U = 3.02 dB

3 CONDUCTED EMISSION TEST

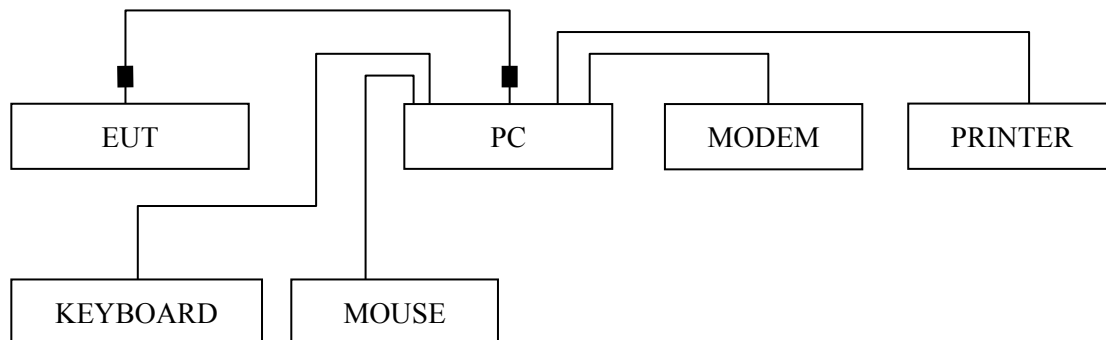
3.1.1 Test Equipment

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, 2008	Nov 21, 2009
2.	Artificial Mains Network (AMN)	R&S	ESH2-Z5	843890/011	Apr 02, 2008	Apr 02, 2009
3.	Line Impedance Stabilization Network (LISN)	Kyoritsu	KNW-407	8-1280-4	Apr 02, 2008	Apr 02, 2009
4.	50 Ω Coaxial Switch	Anritsu	MP59B	6200426389	Sep 19, 2008	Mar 19, 2009
5.	50 Ω Terminator	Anritsu	BNC	001	Apr 02, 2008	Apr 02, 2009
6.	Software	Audix	E3	SET00200 9804M592	--	--

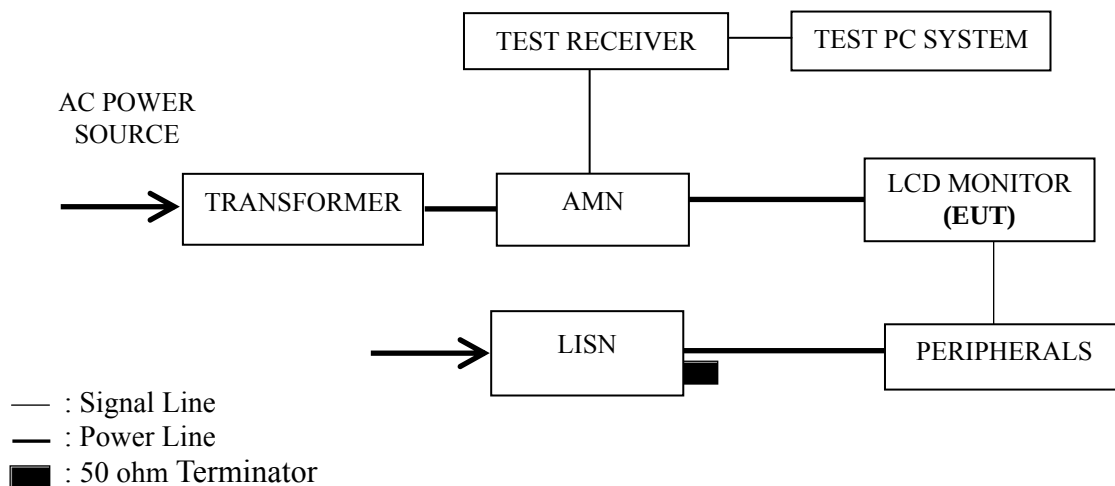
3.2 Block Diagram of Test Setup

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 Input).

3.5.5 Repeat above procedure from 3.5.3 to 3.5.4 for difference test mode.

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

3.5.7 The test modes are as follows:

Test Mode
D-Sub 640*480@60Hz
D-Sub 1024*768@60Hz
D-Sub 1360*768@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.

Test Mode	Data Page
D-Sub 640*480@60Hz	P11
D-Sub 1024*768@60Hz	P12
D-Sub 1360*768@60Hz	P13

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 D-Sub 1024*768@60Hz test mode. The worst emission is detected at 0.197 MHz (Quasi-Peak) with corrected signal level of 52.09 dB (μV) (limit is 55.82 dB (μV)), when the Line of the EUT is connected to AMN.

EUT : LCD Monitor Temperature : 22°C

Model No. : W1642CT Humidity : 58%RH

Serial No. : 901INTX9A089 Date of Test : Mar 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	0.192	49.97	0.20	50.17	63.93	13.76	QP
	0.592	42.67	0.22	42.89	56.00	13.11	
	1.519	41.34	0.29	41.63	56.00	14.37	
	4.574	42.90	0.37	43.27	56.00	12.73	
	6.805	41.25	0.51	41.76	60.00	18.24	
	17.568	37.44	0.72	38.16	60.00	21.84	
	0.192	39.74	0.20	39.94	53.93	13.99	AV
	0.592	32.85	0.22	33.07	46.00	12.93	
	1.519	31.56	0.29	31.85	46.00	14.15	
	4.574	32.84	0.37	33.21	46.00	12.79	
	6.805	31.84	0.51	32.35	50.00	17.65	
	17.568	27.65	0.72	28.37	50.00	21.63	
Neutral	0.194	51.62	0.20	51.82	63.84	12.02	QP
	0.343	44.99	0.22	45.21	59.13	13.92	
	1.519	42.48	0.26	42.74	56.00	13.26	
	4.574	41.54	0.34	41.88	56.00	14.12	
	6.805	44.21	0.46	44.67	60.00	15.33	
	16.661	42.94	0.57	43.51	60.00	16.49	
	0.194	41.84	0.20	42.04	53.84	11.80	AV
	0.343	34.85	0.22	35.07	49.13	14.06	
	1.519	32.51	0.26	32.77	46.00	13.23	
	4.574	31.65	0.34	31.99	46.00	14.01	
	6.805	34.52	0.46	34.98	50.00	15.02	
	16.661	32.83	0.57	33.40	50.00	16.60	

TEST ENGINEER: WENCY YANG

EUT : LCD Monitor Temperature : 22°C

Model No. : W1642CT Humidity : 58%RH

Serial No. : 901INTX9A089 Date of Test : Mar 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	0.197	51.89	0.20	52.09	63.76	11.67	QP
	0.343	43.39	0.22	43.61	59.13	15.52	
	0.604	41.65	0.22	41.87	56.00	14.13	
	1.324	39.81	0.28	40.09	56.00	15.91	
	4.672	42.04	0.37	42.41	56.00	13.59	
	16.226	38.15	0.71	38.86	60.00	21.14	
	0.197	41.82	0.20	42.02	53.76	11.74	AV
	0.343	33.41	0.22	33.63	49.13	15.50	
	0.604	31.64	0.22	31.86	46.00	14.14	
	1.324	29.84	0.28	30.12	46.00	15.88	
	4.672	32.66	0.37	33.03	46.00	12.97	
	16.226	28.64	0.71	29.35	50.00	20.65	
Neutral	0.197	49.44	0.20	49.64	63.76	14.12	QP
	0.346	45.97	0.22	46.19	59.05	12.86	
	0.839	42.71	0.23	42.94	56.00	13.06	
	1.519	42.38	0.26	42.64	56.00	13.36	
	4.822	43.61	0.35	43.96	56.00	12.04	
	6.805	45.50	0.46	45.96	60.00	14.04	
	0.197	39.64	0.20	39.84	53.76	13.92	AV
	0.346	35.62	0.22	35.84	49.05	13.21	
	0.839	32.64	0.23	32.87	46.00	13.13	
	1.519	32.47	0.26	32.73	46.00	13.27	
	4.822	33.64	0.35	33.99	46.00	12.01	
	6.805	35.68	0.46	36.14	50.00	13.86	

TEST ENGINEER: WENCY YANG

EUT : LCD Monitor Temperature : 22°C

Model No. : W1642CT Humidity : 58%RH

Serial No. : 901INTX9A089 Date of Test : Mar 17, 2009

Test Mode : D-Sub 1360*768@60Hz

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.202	49.56	0.20	49.76	63.54	13.78	QP
	0.343	43.56	0.22	43.78	59.13	15.35	
	0.598	41.21	0.22	41.43	56.00	14.57	
	1.519	41.28	0.29	41.57	56.00	14.43	
	4.622	41.57	0.37	41.94	56.00	14.06	
	6.805	42.41	0.51	42.92	60.00	17.08	
	0.202	39.65	0.20	39.85	53.54	13.69	AV
	0.343	33.26	0.22	33.48	49.13	15.65	
	0.598	31.52	0.22	31.74	46.00	14.26	
	1.519	31.89	0.29	32.18	46.00	13.82	
	4.622	31.65	0.37	32.02	46.00	13.98	
	6.805	32.65	0.51	33.16	50.00	16.84	
Neutral	0.192	51.59	0.20	51.79	63.93	12.14	QP
	1.032	42.52	0.23	42.75	56.00	13.25	
	1.519	43.42	0.26	43.68	56.00	12.32	
	4.721	43.15	0.35	43.50	56.00	12.50	
	7.025	45.70	0.47	46.17	60.00	13.83	
	17.383	44.25	0.56	44.81	60.00	15.19	
	0.192	41.95	0.20	42.15	53.93	11.78	AV
	1.032	32.68	0.23	32.91	46.00	13.09	
	1.519	33.52	0.26	33.78	46.00	12.22	
	4.721	33.41	0.35	33.76	46.00	12.24	
	7.025	35.62	0.47	36.09	50.00	13.91	
	17.383	34.71	0.56	35.27	50.00	14.73	

TEST ENGINEER: WENCY YANG

4 RADIATED EMISSION TEST

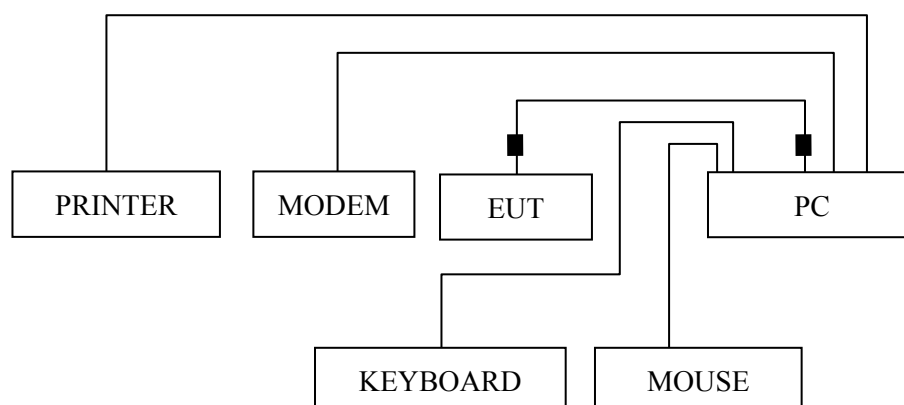
4.1 Test Equipment

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, 2008	Mar 19, 2009
3.	Bi-log Antenna	TESEQ	CBL6112D	23193	May 14, 2008	May 14, 2009
4.	Spectrum	Agilent	E7405A	MY45106600	May 19, 2008	May 19, 2009
5.	Software	Audix	E3	SET00200 9912M295-2	--	--

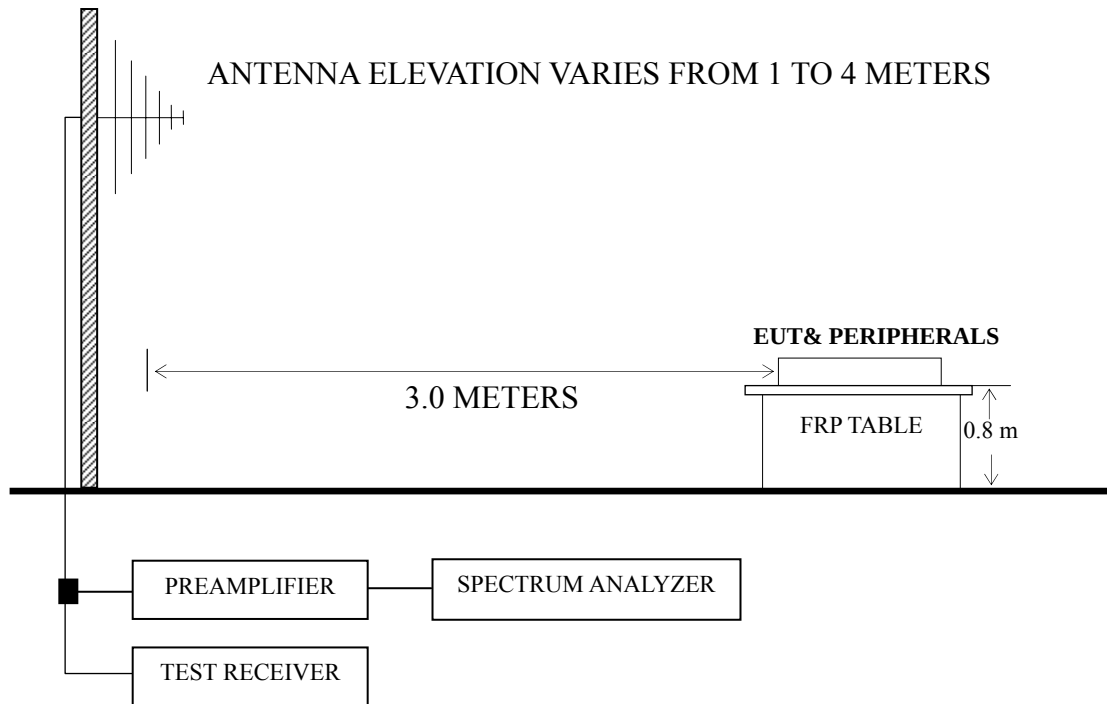
4.2 Block Diagram of Test Setup

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.

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.

The frequency range from 30 MHz to 1000MHz was checked for all test 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	P18
D-Sub 1024*768@60Hz	P19
D-Sub 1360*768@60Hz	P20

NOTE 1 – Emission Level = Antenna Factor + Cable Loss + Meter Reading.

NOTE 2 – The emission levels that are 20dB below the official limit are not reported.

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

NOTE 4 – All reading are Quasi-Peak values.

NOTE 5 – The worst case is for D-Sub 1360*768@60Hz test mode. The worst emission at horizontal polarization was detected at 205.570 MHz with corrected signal level of 31.33 dB (μV/m) (limit is 43.50dB (μV/m)), when the antenna was 1.00 m height and the turntable was at 220°. The worst emission at vertical polarization was detected at 30.970 MHz with corrected signal level of 35.82 dB (μV/m) (limit is 40.00 dB (μV/m)), when the antenna was 1.00 m height and the turntable was at 20°.

EUT : LCD Monitor Temperature : 22°C

Model No. : W1642CT Humidity : 60%RH

Serial No. : 901INTX9A089 Date of Test : Mar 19, 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	30.970	3.24	19.03	0.57	22.84	40.00	17.16
	87.230	14.59	8.96	0.86	24.41	40.00	15.59
	172.590	14.20	10.11	1.00	25.31	43.50	18.19
	207.510	18.66	11.05	1.11	30.82	43.50	12.68
	389.870	12.76	16.30	2.00	31.06	46.00	14.94
	907.850	5.05	21.76	3.52	30.33	46.00	15.67
Vertical	30.970	16.12	19.03	0.57	35.72	40.00	4.28
	66.860	26.42	6.53	0.86	33.81	40.00	6.19
	139.610	21.12	12.12	0.91	34.15	43.50	9.35
	210.420	22.22	11.18	1.12	34.52	43.50	8.98
	387.930	14.55	16.24	1.98	32.77	46.00	13.23
	702.210	12.45	19.73	3.07	35.25	46.00	10.75

TEST ENGINEER: JACKY CHEN

EUT : LCD Monitor Temperature : 22°C

Model No. : W1642CT Humidity : 60%RH

Serial No. : 901INTX9A089 Date of Test : Mar 19, 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	66.860	17.66	6.53	0.86	25.05	40.00	14.95
	98.870	10.28	11.27	0.85	22.40	43.50	21.10
	135.730	12.87	12.28	0.91	26.06	43.50	17.44
	217.210	20.61	11.48	1.15	33.24	46.00	12.76
	290.930	18.79	13.75	1.50	34.04	46.00	11.96
	403.450	13.96	16.55	2.04	32.55	46.00	13.45
Vertical	30.970	14.79	19.03	0.57	34.39	40.00	5.61
	66.860	26.35	6.53	0.86	33.74	40.00	6.26
	127.000	17.71	12.66	0.89	31.26	43.50	12.24
	219.150	22.12	11.57	1.15	34.84	46.00	11.16
	437.400	9.50	17.03	2.18	28.71	46.00	17.29
	856.440	7.36	21.28	3.44	32.08	46.00	13.92

TEST ENGINEER: JACKY CHEN

EUT : LCD Monitor Temperature : 22°C

Model No. : W1642CT Humidity : 60%RH

Serial No. : 901INTX9A089 Date of Test : Mar 19, 2009

Test Mode : D-Sub 1360*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	2.18	19.03	0.57	21.78	40.00	18.22
	53.280	10.56	8.14	0.79	19.49	40.00	20.51
	136.700	12.88	12.23	0.91	26.02	43.50	17.48
	205.570	19.30	10.93	1.10	31.33	43.50	12.17
	274.440	17.70	13.43	1.40	32.53	46.00	13.47
	390.840	11.25	16.30	2.00	29.55	46.00	16.45
Vertical	30.970	16.22	19.03	0.57	35.82	40.00	4.18
	66.860	27.14	6.53	0.86	34.53	40.00	5.47
	136.700	20.82	12.23	0.91	33.96	43.50	9.54
	205.570	23.03	10.93	1.10	35.06	43.50	8.44
	412.180	13.71	16.67	2.08	32.46	46.00	13.54
	897.180	7.56	21.67	3.50	32.73	46.00	13.27

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
Aluminum foil	T-308	50mm*30mm	DAEHUNG SUBSIDIARY MATERIALS	See External Photo Figure 13
Gasket	3940TKK041S	114mm*1mm*10mm	EXPAN	See External Photo Figure 14-1, 14-3
Gasket	3940TKK036R	160mm*2mm*10mm	EXPAN	See External Photo Figure 14-2
Gasket	3940TKK042Q	70mm*1mm*8mm	EXPAN	See External Photo Figure 14-4