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

LCD Monitor

Model No.: W1642ST

Serial No.: E07122401

FCC ID : BEJW1642ST

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

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Report No. : ACI-F08001
Date of Test : Dec 26-28, 2007
Date of Report : Jan 02, 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. : W1642ST
		(B) Serial No. : E07122401
		(C) Power Supply : 120V/60Hz

Test Procedure Used:

FCC RULES AND REGULATIONS PART 15 SUBPART B CLASS B 2007.09 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: W1642ST; S/N: E07122401) which was tested in 3m anechoic chamber on Dec 26-28, 2007 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 26-28, 2007

Prepared By: Alan He 2008.01.11
ALAN HE / Assistant

Reviewer: 2008.01.14
SAMMY CHEN / Deputy Assistant Manager

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

Approved Signatory: 2008.01.11
Authorized Signature EMC IAN CHIEN / 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 / Test Item	Test Standard	Results	Meets Limit
EMISSION			
Conducted Disturbance At main terminal	FCC RULES AND REGULATIONS PART 15 SUBPART B 2007.09 AND ANSI C63.4-2003	Pass	15.107(a) Class B
Radiated Disturbance	FCC RULES AND REGULATIONS PART 15 SUBPART B 2007.09 AND ANSI C63.4-2003	Pass	15.109(a) Class B

2 GENERAL INFORMATION

2.1 Description of Equipment Under Test

Description	:	LCD Monitor
Type of EUT	:	☑ Production ☐ Pre-product ☐ Pro-type
Model No.	:	W1642ST
Serial No.	:	E07122401
Real Power	:	17.9W
Max Resolution	:	1360*768@60Hz.
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: CHI MEI M/N : M156B1- L01
D-Sub Cable	:	Shielded, Detachable, 1.85m, with two cores

Remark:

The EUT is a LCD Monitor which input/output ports as follows:

(1) One D-Sub Input Port :Connected with PC

(2) 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 BSMI (R33001) 3C (A000111) MIC (E-A011-04-2659(B)

2.2.2 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

2.2.3 Mouse

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

2.2.4 Printer

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

2.2.5 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, China 200233
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 CONDUCTED EMISSION TEST

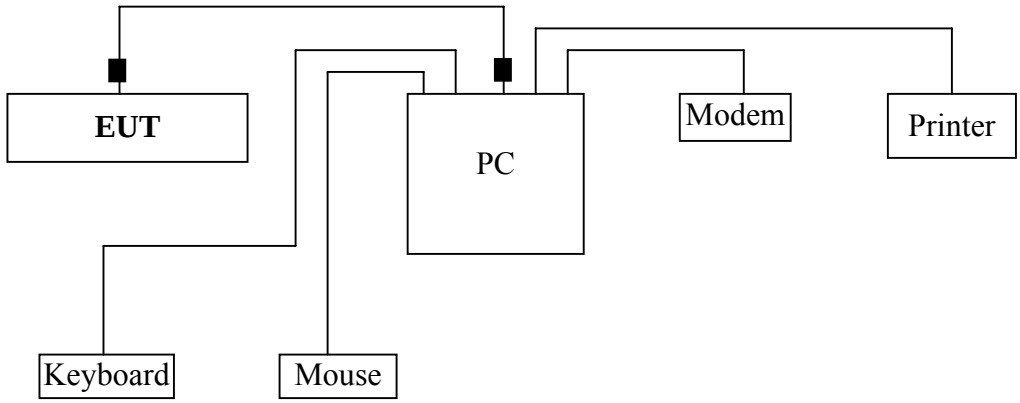
3.1 Test Equipment

The following test equipment 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	ESHS10	830223/007	Apr 08, 2007	Apr 08, 2008
2.	Artificial Mains Network (AMN)	R&S	ESH2-Z5	843890/011	Apr 06, 2007	Apr 06, 2008
3.	Line Impedance Stabilization Network (LISN)	Kyoritsu	KNW-407	8-1280-4	Apr 06, 2007	Apr 06, 2008
4.	50 Ω Coaxial Switch	Anritsu	MP59B	6200426389	Sep 18, 2007	Mar 18, 2008
5.	Software	Audix	E3	SET00200 9804M592	--	--

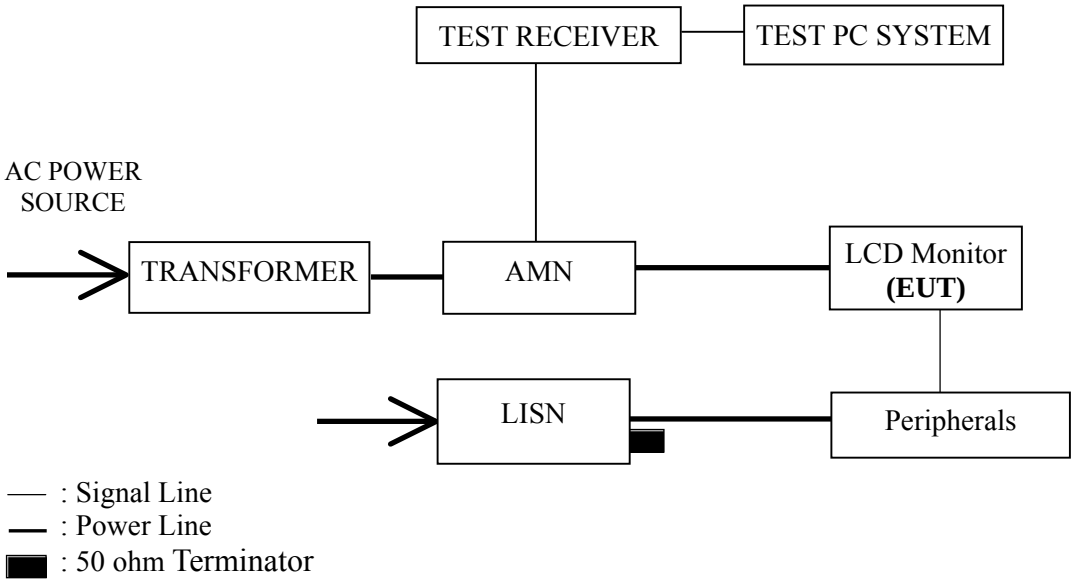
3.2 Block Diagram of Test Setup

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 equipment 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 set “H” characters to EUT through graphic card, the EUT’s screen displayed and filled with “H” pattern by it’s 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:

Model Number	Test Mode
W1642ST	VGA 640*480@60Hz
	VGA 1024*768@60Hz
	VGA 1360*768@60Hz

3.6 Test Procedures

The EUT and peripherals were connected to the power mains through a 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.

Model Number	Test Mode	Data Page
W1642ST	VGA 640*480@60Hz	P12
	VGA 1024*768@60Hz	P13
	VGA 1360*768@60Hz	P14

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 VGA 1360*768@60Hz mode. The worst emission is detected at 8.540 MHz with corrected signal level of 41.00 (μV) (limit is 50.00 dB (μV)), when the Neutral (Average Value) of the EUT is connected to AMN.

EUT	:	LCD Monitor	Temperature	:	22℃
Model No.	:	W1642ST	Humidity	:	60%
Serial No.	:	E07122401	Date of Test	:	Dec 28, 2007
Test Mode	:	VGA 640*480@60Hz			

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.191	49.20	0.72	49.92	63.99	14.07	QP
	0.337	41.90	0.69	42.59	59.28	16.69	
	0.627	38.70	0.61	39.31	56.00	16.69	
	1.500	40.50	0.51	41.01	56.00	14.99	
	3.990	41.00	0.62	41.62	56.00	14.38	
	6.770	40.50	0.67	41.17	60.00	18.83	
	0.191	37.60	0.72	38.32	53.99	15.67	AV
	0.337	32.20	0.69	32.89	49.28	16.39	
	0.627	25.80	0.61	26.41	46.00	19.59	
	1.500	**36.20**	**0.51**	**36.71**	**46.00**	**9.29**	
	3.990	32.40	0.62	33.02	46.00	12.98	
	6.770	33.40	0.67	34.07	50.00	15.93	
Neutral	0.190	48.50	0.64	49.14	64.04	14.90	QP
	0.617	37.50	0.61	38.11	56.00	17.89	
	1.110	39.60	0.55	40.15	56.00	15.85	
	1.500	38.50	0.52	39.02	56.00	16.98	
	3.990	40.91	0.53	41.44	56.00	14.56	
	7.980	54.60	0.79	55.39	60.00	4.61	
	0.190	36.90	0.64	37.54	54.04	16.50	AV
	0.617	22.90	0.61	23.51	46.00	22.49	
	1.110	36.20	0.55	36.75	46.00	9.25	
	1.500	33.60	0.52	34.12	46.00	11.88	
	3.990	31.61	0.53	32.14	46.00	13.86	
	7.980	**40.00**	**0.79**	**40.79**	**50.00**	**9.21**	

TEST ENGINEER: TOM SI

EUT	:	LCD Monitor	Temperature	:	22℃
Model No.	:	W1642ST	Humidity	:	60%
Serial No.	:	E07122401	Date of Test	:	Dec 28, 2007
Test Mode	:	VGA 1024*768@60Hz			

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.189	49.20	0.72	49.92	64.08	14.16	QP
	0.335	41.70	0.69	42.39	59.33	16.94	
	0.588	40.40	0.63	41.03	56.00	14.97	
	1.020	39.40	0.57	39.97	56.00	16.03	
	1.500	40.60	0.51	41.11	56.00	14.89	
	6.490	43.50	0.67	44.17	60.00	15.83	
	0.189	36.50	0.72	37.22	54.08	16.86	AV
	0.335	31.90	0.69	32.59	49.33	16.74	
	0.588	27.20	0.63	27.83	46.00	18.17	
	1.020	28.20	0.57	28.77	46.00	17.23	
	1.500	**36.20**	**0.51**	**36.71**	**46.00**	**9.29**	
	6.490	36.40	0.67	37.07	50.00	12.93	
Neutral	0.190	49.50	0.64	50.14	64.04	13.90	QP
	0.342	37.91	0.65	38.56	59.15	20.59	
	0.675	39.70	0.59	40.29	56.00	15.71	
	1.110	39.60	0.55	40.15	56.00	15.85	
	4.600	38.50	0.54	39.04	56.00	16.96	
	6.490	42.39	0.74	43.13	60.00	16.87	
	0.190	36.20	0.64	36.84	54.04	17.20	AV
	0.342	27.31	0.65	27.96	49.15	21.19	
	0.675	33.00	0.59	33.59	46.00	12.41	
	1.110	**36.20**	**0.55**	**36.75**	**46.00**	**9.25**	
	4.600	27.10	0.54	27.64	46.00	18.36	
	6.490	34.49	0.74	35.23	50.00	14.77	

TEST ENGINEER: TOM SI

EUT	:	LCD Monitor	Temperature	:	22℃
Model No.	:	W1642ST	Humidity	:	60%
Serial No.	:	E07122401	Date of Test	:	Dec 28, 2007
Test Mode	:	VGA 1360*768@60Hz			

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.194	49.10	0.73	49.83	63.86	14.03	QP
	0.342	41.60	0.69	42.29	59.15	16.86	
	0.579	40.40	0.63	41.03	56.00	14.97	
	1.500	40.70	0.51	41.21	56.00	14.79	
	4.360	39.40	0.64	40.04	56.00	15.96	
	8.540	45.60	0.68	46.28	60.00	13.72	
	0.194	38.40	0.73	39.13	53.86	14.73	AV
	0.342	30.40	0.69	31.09	49.15	18.06	
	0.579	31.40	0.63	32.03	46.00	13.97	
	1.500	**36.30**	**0.51**	**36.81**	**46.00**	**9.19**	
	4.360	29.50	0.64	30.14	46.00	15.86	
	8.540	40.10	0.68	40.78	50.00	9.22	
Neutral	0.191	48.81	0.64	49.45	63.99	14.54	QP
	0.337	38.51	0.65	39.16	59.28	20.12	
	0.627	38.00	0.60	38.60	56.00	17.40	
	1.500	38.30	0.52	38.82	56.00	17.18	
	4.160	37.51	0.53	38.04	56.00	17.96	
	8.540	45.70	0.80	46.50	60.00	13.50	
	0.191	36.51	0.64	37.15	53.99	16.84	AV
	0.337	30.51	0.65	31.16	49.28	18.12	
	0.627	31.80	0.60	32.40	46.00	13.60	
	1.500	33.60	0.52	34.12	46.00	11.88	
	4.160	30.21	0.53	30.74	46.00	15.26	
	8.540	**40.20**	**0.80**	**41.00**	**50.00**	**9.00**	

TEST ENGINEER: TOM SI

4 RADIATED EMISSION TEST

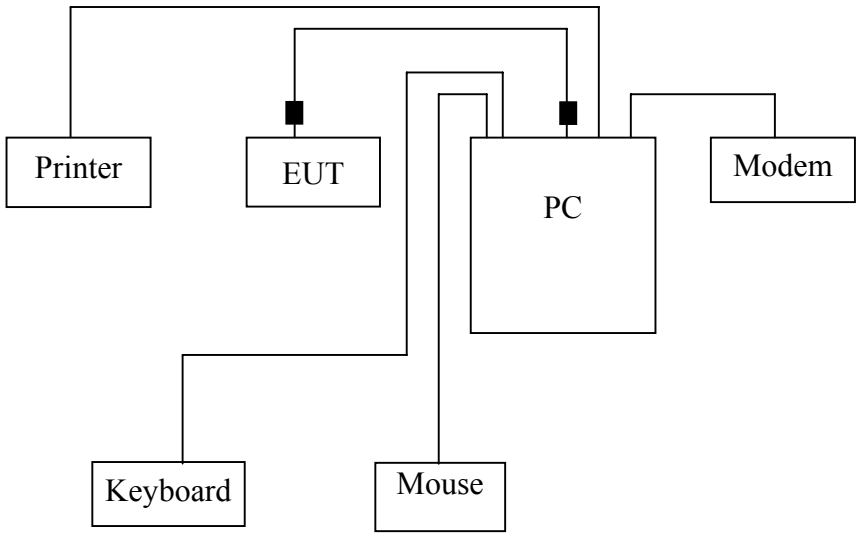
4.1 Test Equipment

The following test equipment 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	Apr 06, 2007	Apr 06, 2008
2.	Preamplifier	Agilent	8447D	2944A10548	Sep 19, 2007	Mar 19, 2008
3.	Bi-log Antenna	TESEQ	CBL6112D	23193	Aug 16, 2007	Aug 16, 2008
4.	Spectrum	Agilent	E7405A	MY45106600	Apr 06, 2007	Apr 06, 2008
5.	Software	Audix	E3	SET00200 9912M295-2	--	--

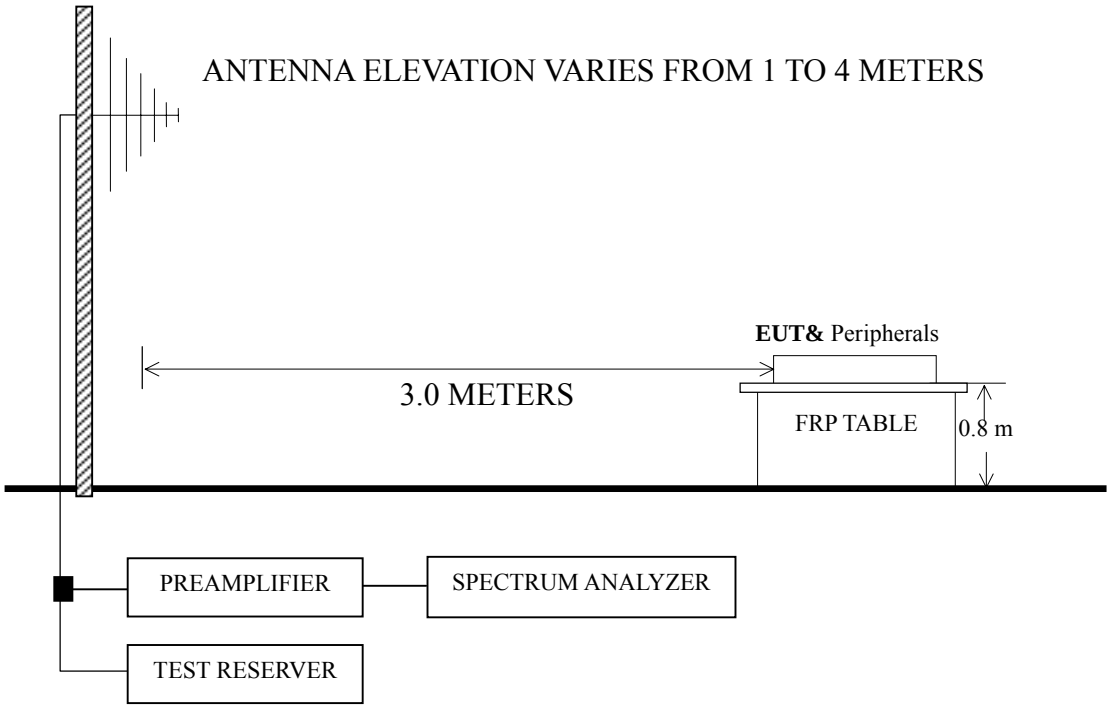
4.2 Block Diagram of Test Setup

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	
		(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.

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 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 1000 MHz was checked.

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.

Model Number	Test Mode	Data Page
W1642ST	VGA 640*480@60Hz	P19
	VGA 1024*768@60Hz	P20
	VGA 1360*768@60Hz	P21

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 VGA 1024*768@60Hz. The worst emission at horizontal polarization was detected at 147.370 MHz with corrected signal level of 34.44 dB (μV/m) (limit is 40.00 dB (μV/m)), when the antenna was 1.10 m height and the turntable was at 120°. The worst emission at vertical polarization was detected at 150.280 MHz with corrected signal level of 35.66 dB (μV/m) (limit is 40.00 dB (μV/m)), when the antenna was 1.00 m height and the turntable was at 140°.

EUT	:	LCD Monitor	Temperature :	22℃	
Model No.	:	W1642ST	Humidity :	60%	
Serial No.	:	E07122401	Date of Test :	Dec 26, 2007	
Test Mode	:	VGA 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	100.810	13.16	10.27	1.70	25.13	40.00	14.87
	153.190	19.43	9.61	2.10	31.14	40.00	8.86
	233.700	16.20	10.09	2.66	28.95	47.00	18.05
	301.600	21.45	12.90	3.13	37.48	47.00	9.52
	401.510	**21.24**	**15.99**	**3.62**	**40.85**	**47.00**	**6.15**
	549.920	9.40	18.45	4.12	31.97	47.00	15.03
Vertical	32.910	14.48	16.30	0.92	31.70	40.00	8.30
	56.190	22.33	5.70	1.13	29.16	40.00	10.84
	100.810	18.38	10.27	1.70	30.35	40.00	9.65
	153.190	**21.56**	**9.61**	**2.10**	**33.27**	**40.00**	**6.73**
	301.600	22.11	12.90	3.13	38.14	47.00	8.86
	401.510	17.87	15.99	3.62	37.48	47.00	9.52

TEST ENGINEER: KEN XU

EUT	:	LCD Monitor	Temperature :	22℃	
Model No.	:	W1642ST	Humidity :	60%	
Serial No.	:	E07122401	Date of Test :	Dec 26, 2007	
Test Mode	:	VGA 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	**147.370**	**22.43**	**9.95**	**2.06**	**34.44**	**40.00**	**5.56**
	174.530	20.48	8.55	2.21	31.24	40.00	8.76
	246.310	18.78	11.66	2.77	33.21	47.00	13.79
	312.270	19.74	13.30	3.18	36.22	47.00	10.78
	389.870	19.27	15.30	3.57	38.14	47.00	8.86
	468.440	16.72	16.93	3.87	37.52	47.00	9.48
Vertical	52.310	24.58	6.84	1.04	32.46	40.00	7.54
	77.530	24.37	6.43	1.50	32.30	40.00	7.70
	150.280	**23.82**	**9.76**	**2.08**	**35.66**	**40.00**	**4.34**
	247.280	17.04	11.77	2.79	31.60	47.00	15.40
	344.280	15.89	14.19	3.35	33.43	47.00	13.57
	528.580	13.33	17.78	4.07	35.18	47.00	11.82

TEST ENGINEER: KEN XU

EUT	:	LCD Monitor	Temperature :	22℃	
Model No.	:	W1642ST	Humidity	:	60%
Serial No.	:	E07122401	Date of Test	:	Dec 26, 2007
Test Mode	:	VGA 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	**146.400**	**22.39**	**10.03**	**2.05**	**34.47**	**40.00**	**5.53**
	230.790	24.49	9.71	2.64	36.84	47.00	10.16
	239.520	22.61	10.90	2.71	36.22	47.00	10.78
	317.120	21.39	13.45	3.21	38.05	47.00	8.95
	411.210	20.42	16.45	3.65	40.52	47.00	6.48
	452.920	16.73	16.35	3.82	36.90	47.00	10.10
Vertical	33.880	14.92	15.77	0.93	31.62	40.00	8.38
	60.070	27.76	4.90	1.22	33.88	40.00	6.12
	110.510	20.50	11.20	1.79	33.49	40.00	6.51
	146.400	**22.64**	**10.03**	**2.05**	**34.72**	**40.00**	**5.28**
	239.520	20.44	10.90	2.71	34.05	47.00	12.95
	411.210	16.21	16.45	3.65	36.31	47.00	10.69

TEST ENGINEER: KEN XU

5 DEVIATION TO TEST SPECIFICATIONS

None.

6 DEBUG DESCRIPTION

Name	M/N	Specifications (mm)	Manufacturer	Location
Aluminum foil	T-308	50mm*30mm	DAEHUNG SUBSIDIARY MATERIALS	See Internal Photos 16
Aluminum foil	3M,EKA1	40mm*20mm	JINGTONG	See Internal Photos 16, 18
Gasket	--	160mm*9mm*2T	EXPAN	See Internal Photos 17
Gasket	--	45mm*9mm*2T	EXPAN	See Internal Photos 17