

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

LCD Monitor

Model No.: W1941ST

Serial No.: E08061804

FCC ID : BEJW1941ST

Prepared For : LG Electronics U.S.A., Inc.
1000 Sylvan Avenue, Englewood Cliffs,
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Report No. : ACI-F08040
Date of Test : Jun 19 – 23, 2008
Date of Report : Jun 26, 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. : W1941ST
(B) Serial No. : E08061804
(C) Power Supply : 120V/60Hz

Test Procedure Used:

*FCC RULES AND REGULATIONS PART 15 SUBPART B CLASS B 2007.10
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: W1941ST; S/N: E08061804) which was tested in 3m anechoic chamber on Jun 19 – 23, 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 : Jun 19 – 23, 2008

Prepared By:

Kathy Wang 2008.7.2
KATHY WANG / Assistant

Reviewer:

Dio Yang 2008.7.2
DIO YANG / Supervisor

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

Approved Signatory:

Sammy Chen 2008.7.2
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 2007.10 AND ANSI C63.4-2003	15.107(a) Class B	Pass
Radiated Disturbance	FCC RULES AND REGULATIONS PART 15 SUBPART B 2007.10 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	:	<input checked="" type="checkbox"/> Production <input type="checkbox"/> Pre-product <input type="checkbox"/> Pro-type
Model No.	:	W1941ST
Serial No.	:	E08061804
Real Power	:	22.00W
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 : M150EW02
Max Resolution	:	1360*768@60Hz
D-Sub Cable	:	Shielded, Detachable, 1.85m, 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 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 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 = 1.84 dB
Radiated Emission Expanded Uncertainty :	U = 2.96 dB

3 CONDUCTED EMISSION TEST

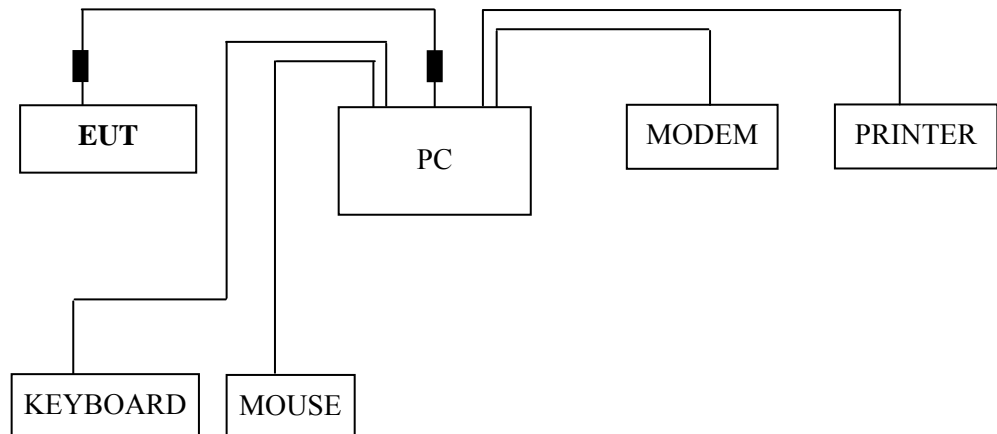
3.1 Test Equipment

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	ESHS10	830223/007	Oct 26, 2007	Oct 26, 2008
2.	Artificial Mains Network (AMN)	R&S	ESH2-Z5	843890/011	Apr 06, 2008	Apr 06, 2009
3.	Line Impedance Stabilization Network (LISN)	Kyoritsu	KNW-407	8-1280-4	Apr 06, 2008	Apr 06, 2009
4.	50 Ω Coaxial Switch	Anritsu	MP59B	6200426389	Mar 18, 2008	Sep 18, 2008
5.	50 Ω Terminator	Anritsu	BNC	001	Apr 06, 2008	Apr 06, 2009
6.	Software	Audix	E3	SET00200 9804M592	--	--

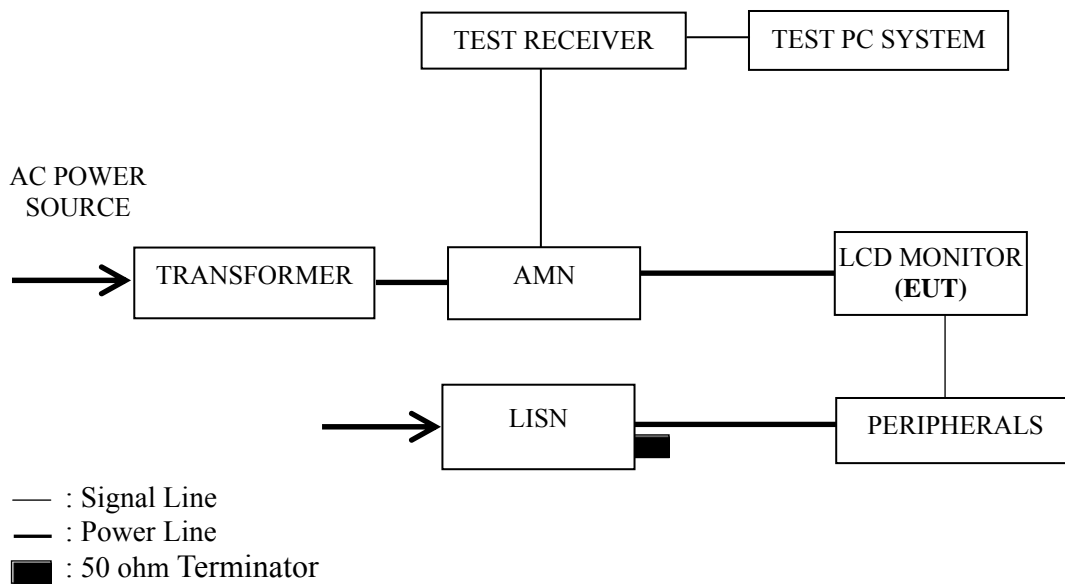
3.2 Block Diagram of Test Setup

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 (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 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
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 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
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 640*480@60Hz test mode. The worst emission is detected at 0.691 MHz (Average Value) with corrected signal level of 41.60 dB (μV) (limit is 46.00 dB (μV)), when the Line of the EUT is connected to AMN.

EUT : LCD Monitor Temperature : 22°C

Model No. : W1941ST Humidity : 60%RH

Serial No. : E08061804 Date of Test : Jun 19, 2008

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	45.75	0.15	45.60	63.99	18.24	QP
	0.264	45.55	0.15	45.40	61.30	15.75	
	0.337	40.16	0.16	40.00	59.28	19.12	
	0.414	41.47	0.17	41.30	57.57	16.10	
	0.691	46.78	0.18	46.60	56.00	9.22	
	1.920	41.22	0.22	41.00	56.00	14.78	
	0.191	36.05	0.15	35.90	53.99	17.94	AV
	0.264	38.25	0.15	38.10	51.30	13.05	
	0.337	28.66	0.16	28.50	49.28	20.62	
	0.414	26.57	0.17	26.40	47.57	21.00	
	0.691	41.78	0.18	41.60	46.00	4.22	
	1.920	29.22	0.22	29.00	46.00	16.78	
Neutral	0.188	47.95	0.15	47.80	64.12	16.17	QP
	0.264	45.60	0.15	45.45	61.30	15.70	
	0.340	44.06	0.16	43.90	59.20	15.14	
	0.689	44.98	0.18	44.80	56.00	11.02	
	3.140	42.84	0.24	42.60	56.00	13.16	
	5.740	42.45	0.25	42.20	60.00	17.55	
	0.188	35.95	0.15	35.80	54.12	18.17	AV
	0.264	38.75	0.15	38.60	51.30	12.55	
	0.340	33.06	0.16	32.90	49.20	16.14	
	0.689	37.58	0.18	37.40	46.00	8.42	
	3.140	30.54	0.24	30.30	46.00	15.46	
	5.740	34.75	0.25	34.50	50.00	15.25	

TEST ENGINEER: TOM SI

EUT : LCD Monitor Temperature : 22°C

Model No. : W1941ST Humidity : 60%RH

Serial No. : E08061804 Date of Test : Jun 19, 2008

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	43.36	0.16	43.20	64.08	20.72	QP
	0.268	45.67	0.15	45.52	61.18	15.51	
	0.320	39.95	0.15	39.80	59.71	19.76	
	0.415	41.07	0.17	40.90	57.55	16.48	
	0.687	45.78	0.18	45.60	56.00	10.22	
	1.760	41.12	0.22	40.90	56.00	14.88	
	0.189	30.14	0.16	29.98	54.08	23.94	AV
	0.268	38.45	0.15	38.30	51.18	12.73	
	0.320	27.15	0.15	27.00	49.71	22.56	
	0.415	27.37	0.17	27.20	47.55	20.18	
	0.687	41.08	0.18	40.90	46.00	4.92	
	1.760	29.32	0.22	29.10	46.00	16.68	
Neutral	0.188	47.35	0.15	47.20	64.12	16.77	QP
	0.264	45.45	0.15	45.30	61.30	15.85	
	0.338	44.06	0.16	43.90	59.25	15.19	
	0.686	44.48	0.18	44.30	56.00	11.52	
	2.980	42.54	0.24	42.30	56.00	13.46	
	5.780	42.25	0.25	42.00	60.00	17.75	
	0.188	35.25	0.15	35.10	54.12	18.87	AV
	0.264	38.75	0.15	38.60	51.30	12.55	
	0.338	33.36	0.16	33.20	49.25	15.89	
	0.686	36.18	0.18	36.00	46.00	9.82	
	2.980	29.64	0.24	29.40	46.00	16.36	
	5.780	34.37	0.25	34.12	50.00	15.63	

TEST ENGINEER: TOM SI

EUT : LCD Monitor Temperature : 22°C

Model No. : W1941ST Humidity : 60%RH

Serial No. : E08061804 Date of Test : Jun 19, 2008

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	0.189	42.37	0.16	42.21	64.08	21.71	QP
	0.265	45.55	0.15	45.40	61.27	15.72	
	0.321	39.95	0.15	39.80	59.68	19.73	
	0.478	41.78	0.18	41.60	56.37	14.59	
	0.689	45.08	0.18	44.90	56.00	10.92	
	2.060	40.88	0.23	40.65	56.00	15.12	
	0.189	27.76	0.16	27.60	54.08	26.32	AV
	0.265	38.55	0.15	38.40	51.27	12.72	
	0.321	29.65	0.15	29.50	49.68	20.03	
	0.478	31.38	0.18	31.20	46.37	14.99	
	0.689	40.28	0.18	40.10	46.00	5.72	
	2.060	27.23	0.23	27.00	46.00	18.77	
Neutral	0.198	47.15	0.15	47.00	63.69	16.54	QP
	0.265	45.45	0.15	45.30	61.27	15.82	
	0.345	44.16	0.16	44.00	59.08	14.92	
	0.689	45.18	0.18	45.00	56.00	10.82	
	2.780	42.54	0.24	42.30	56.00	13.46	
	5.860	42.15	0.25	41.90	60.00	17.85	
	0.198	37.35	0.15	37.20	53.69	16.34	AV
	0.265	38.75	0.15	38.60	51.27	12.52	
	0.345	32.96	0.16	32.80	49.08	16.12	
	0.689	37.68	0.18	37.50	46.00	8.32	
	2.780	29.74	0.24	29.50	46.00	16.26	
	5.860	34.45	0.25	34.20	50.00	15.55	

TEST ENGINEER: TOM SI

4 RADIATED EMISSION TEST

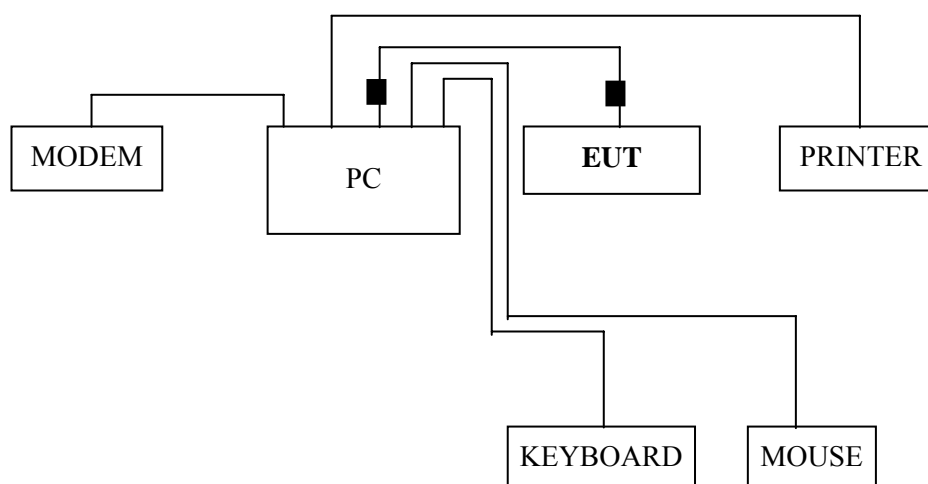
4.1 Test Equipment

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	Oct 26, 2007	Oct 26, 2008
2.	Preamplifier	Agilent	8447D	2944A10548	Mar 19, 2008	Sep 19, 2008
3.	Bi-log Antenna	TESEQ	CBL6112D	23193	Aug 16, 2007	Aug 16, 2008
4.	Spectrum	Agilent	E7405A	MY45106600	Apr 06, 2008	Apr 06, 2009
5.	Software	Audix	E3	SET00200 9912M295-2	--	--

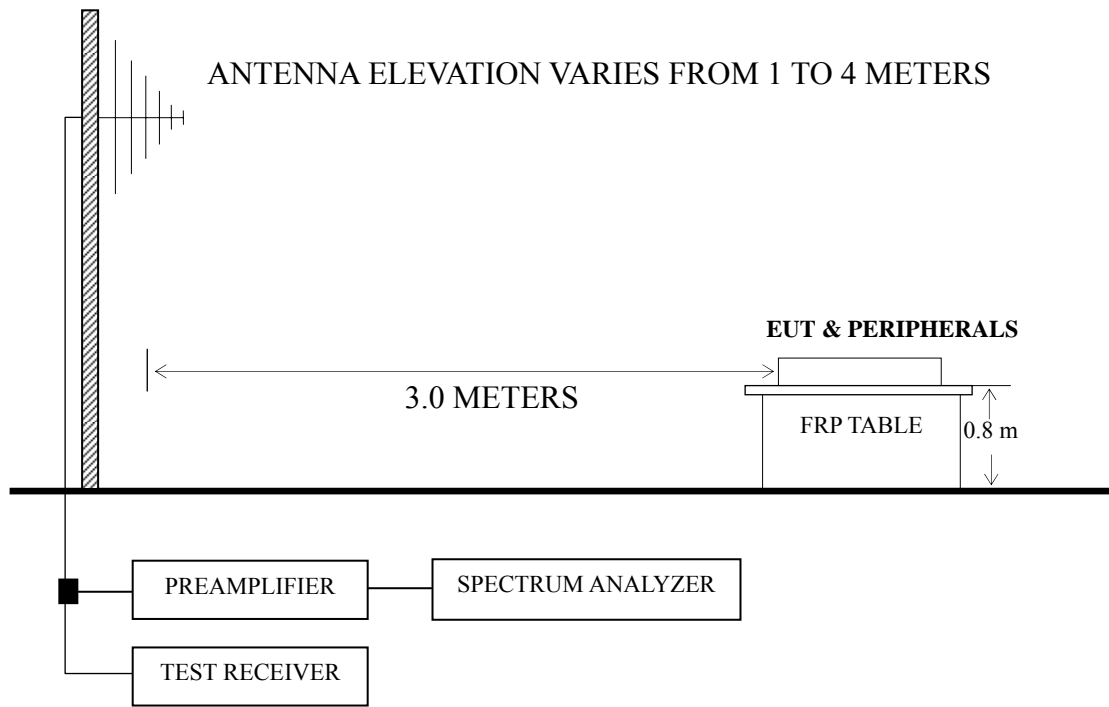
4.2 Block Diagram of Test Setup

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.

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.

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
VGA 640*480@60Hz	P18
VGA 1024*768@60Hz	P19
VGA 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 readings are Quasi-Peak values.

NOTE 5 – The worst case is for VGA 1024*768@60Hz test mode. The worst emission at horizontal polarization was detected at 130.880 MHz with corrected signal level of 37.64 dB (μV/m) (limit is 43.50 dB (μV/m)), when the antenna was 1.10 m height and the turntable was at 45°. The worst emission at vertical polarization was detected at 43.580 MHz with corrected signal level of 36.73 dB (μV/m) (limit is 40.00 dB (μV/m)), when the antenna was 1.00 m height and the turntable was at 320°.

EUT : LCD Monitor Temperature : 22°C

Model No. : W1941ST Humidity : 60%RH

Serial No. : E08061804 Date of Test : Jun 23, 2008

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	90.140	21.83	8.70	1.61	32.14	43.50	11.36
	106.630	24.70	10.90	1.75	37.35	43.50	6.15
	135.730	22.77	10.95	1.98	35.70	43.50	7.80
	187.140	26.78	8.12	2.27	37.17	43.50	6.33
	269.590	19.72	12.40	2.93	35.05	46.00	10.95
	358.830	16.39	14.59	3.42	34.40	46.00	11.60
Vertical	46.490	24.74	9.33	0.98	35.05	40.00	4.95
	101.780	26.10	10.39	1.71	38.20	43.50	5.30
	135.730	25.74	10.95	1.98	38.67	43.50	4.83
	182.290	28.23	8.00	2.25	38.48	43.50	5.02
	315.180	20.98	13.40	3.20	37.58	46.00	8.42
	407.330	14.15	16.27	3.64	34.06	46.00	11.94

TEST ENGINEER: JACKY CHEN

EUT : LCD Monitor Temperature : 22°C

Model No. : W1941ST Humidity : 60%RH

Serial No. : E08061804 Date of Test : Jun 23, 2008

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	87.230	21.33	8.10	1.59	31.02	40.00	8.98
	109.540	24.14	11.16	1.78	37.08	43.50	6.42
	130.880	24.37	11.32	1.95	37.64	43.50	5.86
	174.530	23.62	8.55	2.21	34.38	43.50	9.12
	259.890	17.65	12.90	2.88	33.43	46.00	12.57
	344.280	15.02	14.19	3.35	32.56	46.00	13.44
Vertical	43.580	25.07	10.69	0.97	36.73	40.00	3.27
	109.540	24.47	11.16	1.78	37.41	43.50	6.09
	130.880	26.72	11.32	1.95	39.99	43.50	3.51
	187.140	28.33	8.12	2.27	38.72	43.50	4.78
	315.180	16.20	13.40	3.20	32.80	46.00	13.20
	429.640	14.93	16.45	3.74	35.12	46.00	10.88

TEST ENGINEER: JACKY CHEN

EUT : LCD Monitor Temperature : 22°C

Model No. : W1941ST Humidity : 60%RH

Serial No. : E08061804 Date of Test : Jun 23, 2008

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	85.290	22.19	7.73	1.57	31.49	40.00	8.51
	111.480	24.34	11.20	1.79	37.33	43.50	6.17
	128.940	25.84	11.42	1.94	39.20	43.50	4.30
	189.080	26.57	8.19	2.28	37.04	43.50	6.46
	255.040	21.56	12.50	2.84	36.90	46.00	9.10
	373.380	15.28	14.85	3.48	33.61	46.00	12.39
Vertical	43.580	24.85	10.69	0.97	36.51	40.00	3.49
	67.830	28.38	5.27	1.37	35.02	40.00	4.98
	111.480	27.15	11.20	1.79	40.14	43.50	3.36
	128.940	26.53	11.42	1.94	39.89	43.50	3.61
	187.140	27.24	8.12	2.27	37.63	43.50	5.87
	421.880	14.97	16.58	3.70	35.25	46.00	10.75

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 Internal Photos Figure 17
Gasket	3940TKK 043E	55*9*105(T)	EXPAN	See Internal Photos Figure 18
Gasket	3940TKK 041D	240*9*3(T)	EXPAN	See Internal Photos Figure 18
Gasket	3940TKK 043H	88X10X6(T)	EXPAN	See Internal Photos Figure 18