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

LCD Monitor

Model No.: E2350SV

Serial No.: E2009121402

FCC ID : BEJE2350SV

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

Prepared By : Audix Technology (Shanghai) Co., Ltd.
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Report No. : ACI-F09135
Date of Test : Dec 25, 2009
Date of Report : Dec 26, 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. : E2350SV
		(B) Serial No. : E2009121402
		(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: Refer to Sec. 2.1; S/N: Refer to Sec. 2.1) which was tested in 3m anechoic chamber Dec 25, 2009 is technically compliance with the FCC official limits also.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of Audix Technology (Shanghai) Co., Ltd.

This report contains data that are not covered by the NVLAP accreditation.

This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

Date of Test : Dec 25, 2009 Date of Report : Dec 26, 2009

Producer : Zeno Gu
ZENO GU / Assistant

Review : Dio Yang
DIO YANG / Deputy Assistant Manager

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

Signatory : Sammy Chen
Authorized Signature EMC SAMMY CHEN / Assistant Manager

1 SUMMARY OF STANDARDS AND RESULTS

1.1 Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below:

Description of Test Item	Standard	Limits	Results
EMISSION			
Conducted Disturbance at the Mains Terminal	FCC RULES AND REGULATIONS PART 15 SUBPART B OCTOBER 2008 AND ANSI C63.4-2003	15.107(a) Class B	Pass
Radiated Disturbance	FCC RULES AND REGULATIONS PART 15 SUBPART B OCTOBER 2008 AND ANSI C63.4-2003	15.109(a) Class B	Pass

2 GENERAL INFORMATION

2.1 Description of Equipment Under Test

Description	:	LCD Monitor
Type of EUT	:	☑ Production ☐ Pre-product ☐ Pro-type
Model No.	:	E2350SV
Serial No.	:	E2009121402
Real Power	:	27.00W
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 : LM230WF5 (TL) (A1)
Adapter	:	Switching Adapter Manufacturer : DEE VAN ELECTRONICS (SHENZHEN) CO., LTD. M/N : DSA-36W-12 1 24 Input : 100-240V ~ 50/60Hz, 1.0A Output : 12V 2.0A Output Cable : Unshielded, Undetachable, 1.20m, without core
Max Resolution	:	1920*1080@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 they will cause the maximum emission.

Remark:
The EUT is a LCD Monitor which input/output ports as follows:
(1) One D-Sub Port
: Connected with PC
(2) One 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 Apr 29, 2009 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

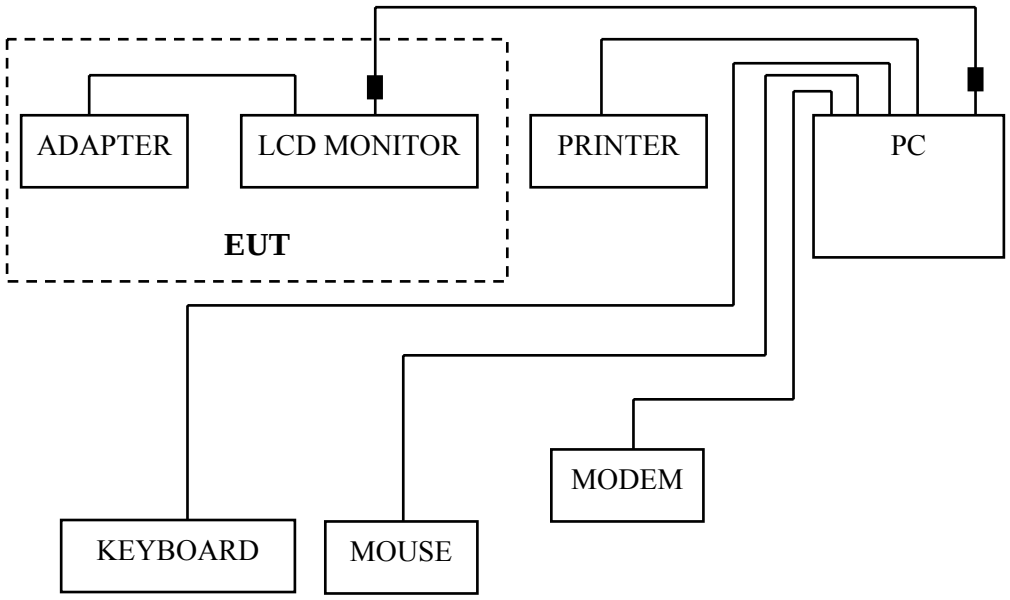
3.1.1 Test Equipment

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, 2009	Nov 21, 2010
2.	Artificial Mains Network (AMN)	R&S	ESH2-Z5	843890/011	Apr 02, 2009	Apr 02, 2010
3.	Line Impedance Stabilization Network (LISN)	Kyoritsu	KNW-407	8-1280-4	Apr 02, 2009	Apr 02, 2010
4.	50 Ω Coaxial Switch	Anritsu	MP59B	6200426389	Sep 19, 2009	Mar 19, 2010
5.	50Ω Terminator	Anritsu	BNC	001	Apr 02, 2009	Apr 02, 2010
6.	Software	Audix	E3	SET00200 9804M592	--	--

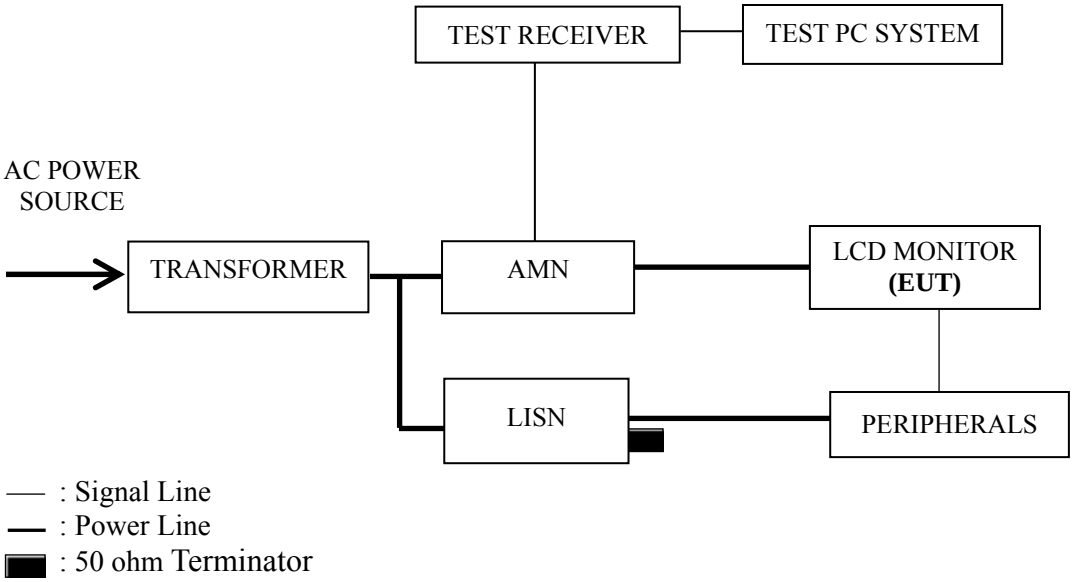
3.2 Block Diagram of Test Setup

3.2.1 EUT & Peripherals



▌: Ferrite core

3.2.2 Conducted Disturbance Test Setup



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

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

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

3.4 Test Configuration

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

3.5 Operating Condition of EUT

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

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

3.5.3 Set the contrast & brightness of EUT to maximum.

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

M/N	Test Mode
E2350SV	D-Sub 640*480@60Hz
	D-Sub 1024*768@60Hz
	D-Sub 1680*1050@60Hz
	D-Sub 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 ESCI was set at 9 kHz.

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

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

3.7 Test Results

< PASS >

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

M/N	Test Mode	Data Page
E2250SV	D-Sub 640*480@60Hz	P12
	D-Sub 1024*768@60Hz	P13
	D-Sub 1680*1050@60Hz	**P14**
	D-Sub 1920*1080@60Hz	P15

NOTE 1 – The **bold test mode** listed above means the worst test mode.
NOTE 2 – Factor = Cable Loss + AMN Factor.
NOTE 3 – Emission Level = Meter Reading + Factor.
NOTE 4 – "QP" means "Quasi-Peak" values, "AV" means "Average" values.
NOTE 5 – The worst case is for D-Sub 1680*1050@60Hz test mode. The worst emission is detected at 0.385 MHz (Average Value) with corrected signal level of 35.92 dB (μV) (limit is 48.17 dB (μV)), when the Neutral the EUT is connected to AMN.

EUT	:	LCD Monitor	Temperature :	22℃	
Model No.	:	E2350SV	Humidity	:	48%RH
Serial No.	:	E2009121402	Date of Test	:	Dec 25, 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	0.164	46.40	0.23	46.63	65.25	18.62	QP
	0.375	42.23	0.27	42.50	58.39	15.89	
	0.567	37.62	0.28	37.90	56.00	18.10	
	2.358	34.81	0.37	35.18	56.00	20.82	
	14.364	31.91	0.69	32.60	60.00	27.40	
	24.142	28.42	0.82	29.24	60.00	30.76	
	0.164	31.43	0.23	31.66	55.25	23.59	AV
	0.375	32.18	0.27	32.45	48.39	15.94	
	0.567	26.42	0.28	26.70	46.00	19.30	
	2.358	20.26	0.37	20.63	46.00	25.37	
	14.364	26.63	0.69	27.32	50.00	22.68	
	24.142	21.03	0.82	21.85	50.00	28.15	
Neutral	0.164	46.46	0.20	46.66	65.25	18.59	QP
	0.381	41.97	0.24	42.21	58.25	16.04	
	0.567	37.32	0.26	37.58	56.00	18.42	
	2.527	32.68	0.39	33.07	56.00	22.93	
	14.364	32.54	0.65	33.19	60.00	26.81	
	23.636	27.43	0.77	28.20	60.00	31.80	
	0.164	27.70	0.20	27.90	55.25	27.35	AV
	0.381	**34.96**	**0.24**	**35.20**	**48.25**	**13.05**	
	0.567	27.95	0.26	28.21	46.00	17.79	
	2.527	22.83	0.39	23.22	46.00	22.78	
	14.364	24.60	0.65	25.25	50.00	24.75	
	23.636	20.91	0.77	21.68	50.00	28.32	

TEST ENGINEER: HUGH HUANG

EUT	:	LCD Monitor	Temperature :	22℃	
Model No.	:	E2350SV	Humidity	:	48%RH
Serial No.	:	E2009121402	Date of Test	:	Dec 25, 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	0.164	46.44	0.23	46.67	65.25	18.58	QP
	0.377	42.21	0.27	42.48	58.34	15.86	
	0.558	37.33	0.28	37.61	56.00	18.39	
	2.869	34.24	0.40	34.64	56.00	21.36	
	13.989	30.95	0.67	31.62	60.00	28.38	
	23.636	28.51	0.83	29.34	60.00	30.66	
	0.164	32.77	0.23	33.00	55.25	22.25	AV
	0.377	34.13	0.27	34.40	48.34	13.94	
	0.558	26.87	0.28	27.15	46.00	18.85	
	2.869	24.33	0.40	24.73	46.00	21.27	
	13.989	22.99	0.67	23.66	50.00	26.34	
	23.636	21.19	0.83	22.02	50.00	27.98	
Neutral	0.166	47.42	0.20	47.62	65.16	17.54	QP
	0.381	41.92	0.24	42.16	58.25	16.09	
	0.567	37.29	0.26	37.55	56.00	18.45	
	1.568	33.33	0.34	33.67	56.00	22.33	
	7.606	29.92	0.49	30.41	60.00	29.59	
	14.364	32.06	0.65	32.71	60.00	27.29	
	0.166	33.79	0.20	33.99	55.16	21.17	AV
	0.381	**34.96**	**0.24**	**35.20**	**48.25**	**13.05**	
	0.567	21.30	0.26	21.56	46.00	24.44	
	1.568	22.04	0.34	22.38	46.00	23.62	
	7.606	19.83	0.49	20.32	50.00	29.68	
	14.364	25.73	0.65	26.38	50.00	23.62	

TEST ENGINEER: HUGH HUANG

EUT	:	LCD Monitor	Temperature :	22℃	
Model No.	:	E2350SV	Humidity	:	48%RH
Serial No.	:	E2009121402	Date of Test	:	Dec 25, 2009
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	0.164	48.05	0.23	48.28	65.25	16.97	QP
	0.375	42.07	0.27	42.34	58.39	16.05	
	0.567	37.43	0.28	37.71	56.00	18.29	
	2.500	35.39	0.39	35.78	56.00	20.22	
	9.107	28.87	0.48	29.35	60.00	30.65	
	14.364	31.51	0.69	32.20	60.00	27.80	
	0.164	33.51	0.23	33.74	55.25	21.51	AV
	0.375	34.55	0.27	34.82	48.39	13.57	
	0.567	27.08	0.28	27.36	46.00	18.64	
	2.500	24.42	0.39	24.81	46.00	21.19	
	9.107	21.70	0.48	22.18	50.00	27.82	
	14.364	25.01	0.69	25.70	50.00	24.30	
Neutral	0.164	47.97	0.20	48.17	65.25	17.08	QP
	0.385	41.77	0.24	42.01	58.17	16.16	
	0.567	37.20	0.26	37.46	56.00	18.54	
	2.500	34.32	0.39	34.71	56.00	21.29	
	5.535	31.28	0.46	31.74	60.00	28.26	
	14.517	31.79	0.66	32.45	60.00	27.55	
	0.164	37.92	0.20	38.12	55.25	17.13	AV
	0.385	**35.68**	**0.24**	**35.92**	**48.17**	**12.25**	
	0.567	25.17	0.26	25.43	46.00	20.57	
	2.500	22.24	0.39	22.63	46.00	23.37	
	5.535	19.58	0.46	20.04	50.00	29.96	
	14.517	23.98	0.66	24.64	50.00	25.36	

TEST ENGINEER: HUGH HUANG

EUT	:	LCD Monitor	Temperature :	22℃	
Model No.	:	E2350SV	Humidity	:	48%RH
Serial No.	:	E2009121402	Date of Test	:	Dec 25, 2009
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	0.166	48.79	0.23	49.02	65.16	16.14	QP
	0.385	42.07	0.27	42.34	58.17	15.83	
	0.914	35.82	0.30	36.12	56.00	19.88	
	2.448	33.52	0.39	33.91	56.00	22.09	
	5.362	32.02	0.44	32.46	60.00	27.54	
	14.213	30.52	0.68	31.20	60.00	28.80	
	0.166	35.38	0.23	35.61	55.16	19.55	AV
	0.385	33.84	0.27	34.11	48.17	14.06	
	0.914	26.02	0.30	26.32	46.00	19.68	
	2.448	21.38	0.39	21.77	46.00	24.23	
	5.362	22.11	0.44	22.55	50.00	27.45	
	14.213	23.08	0.68	23.76	50.00	26.24	
Neutral	0.164	48.78	0.20	48.98	65.25	16.27	QP
	0.381	41.81	0.24	42.05	58.25	16.20	
	0.564	37.22	0.26	37.48	56.00	18.52	
	1.197	34.03	0.32	34.35	56.00	21.65	
	5.594	29.91	0.46	30.37	60.00	29.63	
	14.672	32.26	0.66	32.92	60.00	27.08	
	0.164	33.19	0.20	33.39	55.25	21.86	AV
	0.381	**33.53**	**0.24**	**33.77**	**48.25**	**14.48**	
	0.564	27.40	0.26	27.66	46.00	18.34	
	1.197	22.49	0.32	22.81	46.00	23.19	
	5.594	18.65	0.46	19.11	50.00	30.89	
	14.672	25.92	0.66	26.58	50.00	23.42	

TEST ENGINEER: HUGH HUANG

4 RADIATED EMISSION TEST

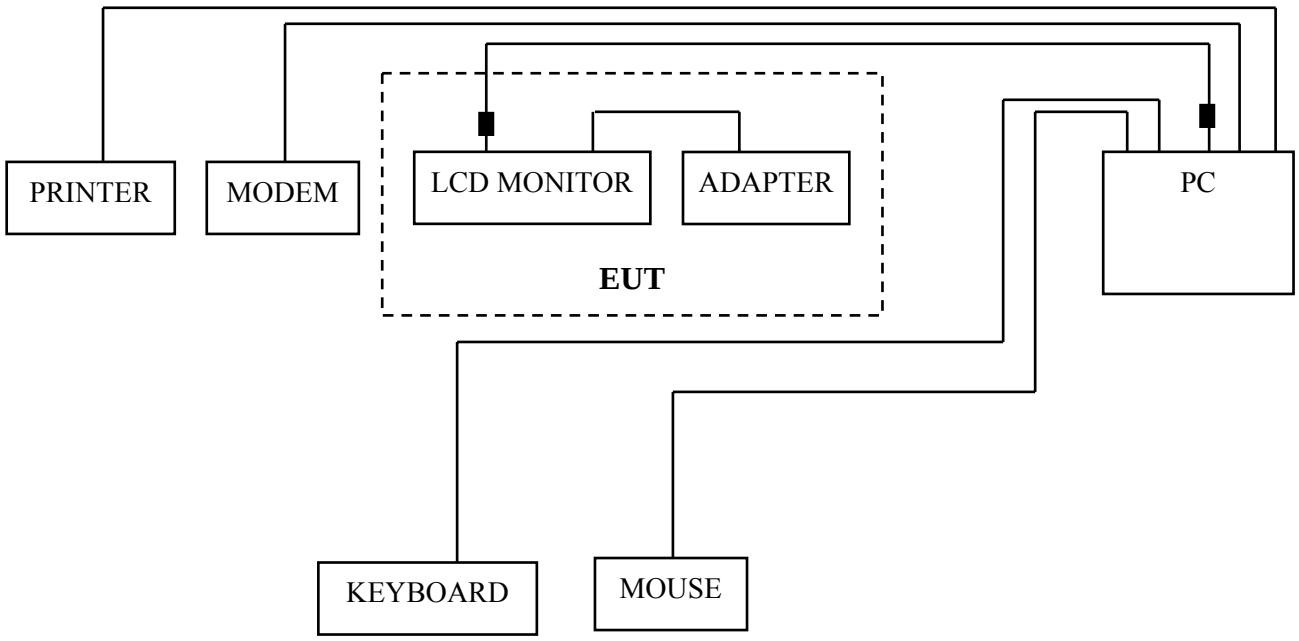
4.1 Test Equipment

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

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

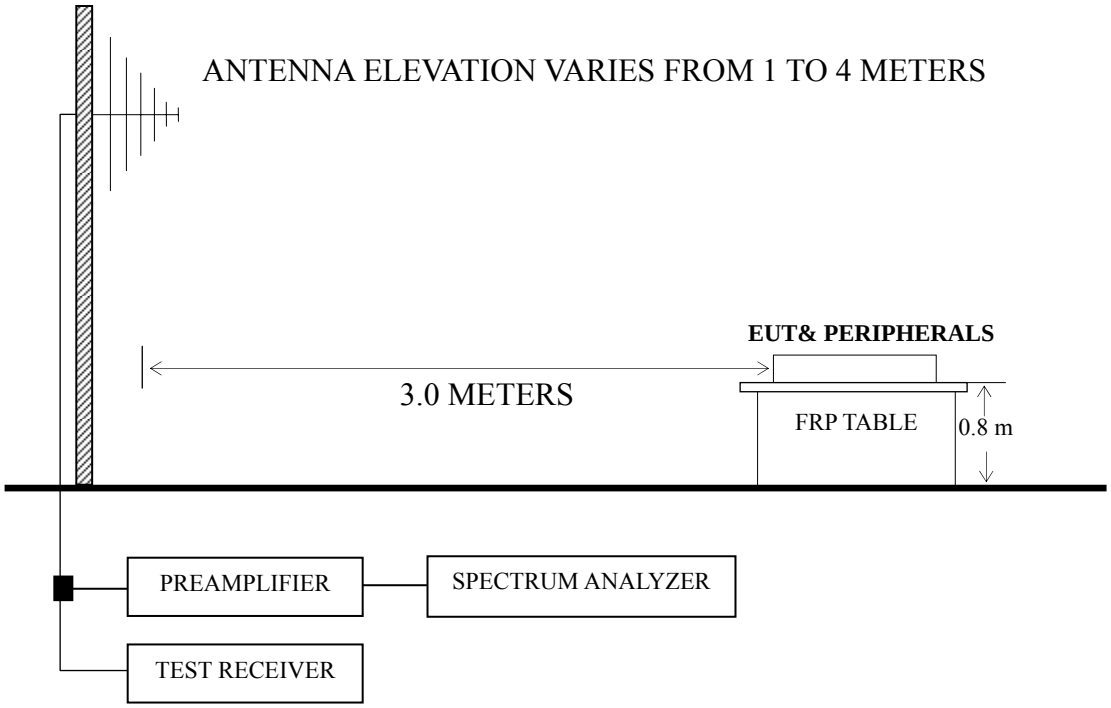
4.2 Block Diagram of Test Setup

4.2.1 EUT and Peripherals



▌: 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 and Average value detector above 1GHz.
NOTE 5 - Above 1 GHz, the limit on peak emission is 20 dB above the maximum permitted average emission limit applicable to the EUT.

4.4 Test Configuration

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

Please refer to Sec.3.4.

4.5 Operating Condition of EUT

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

4.6 Test Procedures

The EUT and peripherals were placed on a FRP turntable that is 0.8 meter above ground. The FRP turntable rotated 360 degrees to determine the position of the maximum emission level. The EUT was set 3 meters away from the receiving antenna, which was mounted on an antenna tower. Broadband antenna (Calibrated Bilog Antenna) was used as receiving antenna. The antenna moved up and down between 1 meter and 4 meters to find out the maximum emission level. Both horizontal and vertical polarizations of the antenna were set on measurement. In order to find the maximum emission, all of the interference cables were manipulated according to ANSI C63.4:2003 requirements during radiated emission test.

The bandwidth of Test Receiver R&S ESVS10 was set at 120 kHz

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

The frequency range from 1 GHz to 2 GHz was checked for D-Sub 1680*1050@60Hz and D-Sub 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.

M/N	Test Mode	Data Page
E2350SV	**D-Sub 640*480@60Hz**	**P20**
	D-Sub 1024*768@60Hz	P21
	D-Sub 1680*1050@60Hz	P22
	D-Sub 1920*1080@60Hz	P23

NOTE 1 – **The bold test mode** listed above means the worst test mode.
NOTE 2 – Emission Level = Antenna Factor + Cable Loss + Meter Reading. (< 1GHz)
NOTE 3 – Emission Level = Antenna Factor + Cable Loss – Preamp Factor + Meter Reading. (> 1GHz)
NOTE 4 – The emission levels that are 20dB below the official limit are not reported.
NOTE 5 – 0° was the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.
NOTE 6 – The worst case is for D-Sub 640*480@60Hz test mode. The worst emission at horizontal polarization was detected at 44.550 MHz with corrected signal level of 35.18 dB (μV/m) (limit is 40.00dB (μV/m)), when the antenna was 1.30 m height and the turntable was at 80°. The worst emission at vertical polarization was detected at 44.550MHz with corrected signal level of 35.18 dB (μV/m) (limit is 40.00 dB (μV/m)), when the antenna was 1.00 m height and the turntable was at 290°.

EUT	:	LCD Monitor	Temperature :	22℃
Model No.	:	E2350SV	Humidity :	60%RH
Serial No.	:	E2009121402	Date of Test :	Dec 25, 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	**44.550**	**23.11**	**11.38**	**0.69**	**35.18**	**40.00**	**4.82**
	97.900	17.56	11.11	1.07	29.74	43.50	13.76
	179.380	26.75	9.92	1.43	38.10	43.50	5.40
	244.370	21.57	12.68	1.68	35.93	46.00	10.07
	386.960	15.60	16.24	2.16	34.00	46.00	12.00
	942.770	11.13	22.02	3.51	36.66	46.00	9.34
Vertical	81.410	17.33	8.02	0.95	26.30	40.00	13.70
	97.900	17.96	11.11	1.07	30.14	43.50	13.36
	179.380	**27.84**	**9.92**	**1.43**	**39.19**	**43.50**	**4.31**
	227.880	24.36	12.02	1.63	38.01	46.00	7.99
	341.370	17.97	15.07	2.02	35.06	46.00	10.94
	803.090	16.28	20.73	3.21	40.22	46.00	5.78

TEST ENGINEER: RAVEN JIN

EUT	:	LCD Monitor	Temperature :	22℃
Model No.	:	E2350SV	Humidity :	60%RH
Serial No.	:	E2009121402	Date of Test :	Dec 25, 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	81.410	17.34	8.02	0.95	26.31	40.00	13.69
	148.340	20.70	11.41	1.22	33.33	43.50	10.17
	194.900	**26.48**	**10.51**	**1.51**	**38.50**	**43.50**	**5.00**
	227.880	24.53	12.02	1.63	38.18	46.00	7.82
	341.370	18.47	15.07	2.02	35.56	46.00	10.44
	811.820	15.98	20.80	3.24	40.02	46.00	5.98
Vertical	33.880	14.32	17.44	0.64	32.40	40.00	7.60
	49.400	**25.21**	**9.16**	**0.70**	**35.07**	**40.00**	**4.93**
	97.900	18.90	11.11	1.07	31.08	43.50	12.42
	179.380	25.66	9.92	1.43	37.01	43.50	6.49
	244.370	21.86	12.68	1.68	36.22	46.00	9.78
	859.350	11.46	21.31	3.34	36.11	46.00	9.89

TEST ENGINEER: RAVEN JIN

EUT	:	LCD Monitor	Temperature :	22℃	
Model No.	:	E2350SV	Humidity :	60%RH	
Serial No.	:	E2009121402	Date of Test :	Dec 25, 2009	
Test Mode	:	D-Sub 1680*1050@60Hz			

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	43.580	22.64	11.88	0.68	--	35.20	40.00	4.80	QP
	87.230	22.04	8.96	1.00	--	32.00	40.00	8.00	
	172.590	**27.57**	**10.11**	**1.38**	--	**39.06**	**43.50**	**4.44**	
	282.200	17.11	13.59	1.81	--	32.51	46.00	13.49	
	386.960	15.20	16.24	2.16	--	33.60	46.00	12.40	
	767.200	11.53	20.40	3.12	--	35.05	46.00	10.95	
	1001.000	48.67	22.40	3.84	34.10	40.81	74.00	33.19	PK
	1215.000	48.89	23.82	4.24	34.12	42.83	74.00	31.17	
	1317.000	48.46	24.66	4.42	34.13	43.41	74.00	30.59	
	1548.000	49.22	26.11	4.81	34.16	45.98	74.00	28.02	
	1823.000	46.72	27.03	5.21	34.18	44.78	74.00	29.22	
	1996.000	46.07	28.10	5.30	34.20	45.27	74.00	28.73	
Vertical	87.230	14.47	8.96	1.00	--	24.43	40.00	15.57	QP
	172.590	26.56	10.11	1.38	--	38.05	43.50	5.45	
	224.000	22.43	11.85	1.62	--	35.90	46.00	10.10	
	302.570	20.90	13.97	1.89	--	36.76	46.00	9.24	
	386.960	17.03	16.24	2.16	--	35.43	46.00	10.57	
	763.320	**17.52**	**20.36**	**3.12**	--	**41.00**	**46.00**	**5.00**	
	1019.000	49.89	22.51	3.88	34.10	42.18	74.00	31.82	PK
	1152.000	46.91	23.45	4.13	34.11	40.38	74.00	33.62	
	1391.000	44.90	25.16	4.54	34.14	40.46	74.00	33.54	
	1549.000	46.01	26.11	4.81	34.16	42.77	74.00	31.23	
	1823.000	43.45	27.03	5.21	34.18	41.51	74.00	32.49	
	1991.000	40.24	28.05	5.29	34.20	39.38	74.00	34.62	

TEST ENGINEER: RAVEN JIN

EUT	: LCD Monitor	Temperature	:	22℃	
Model No.	: E2350SV	Humidity	:	60%RH	
Serial No.	: E2009121402	Date of Test	:	Dec 25, 2009	
Test Mode	: D-Sub 1920*1080@60Hz				

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	47.460	10.31	10.09	0.69	--	21.09	40.00	18.91	QP
	133.790	15.46	12.35	1.18	--	28.99	43.50	14.51	
	173.560	23.15	10.09	1.38	--	34.62	43.50	8.88	
	223.030	21.19	11.80	1.62	--	34.61	46.00	11.39	
	293.840	19.14	13.79	1.85	--	34.78	46.00	11.22	
	764.290	**17.57**	**20.36**	**3.12**	--	**41.05**	**46.00**	**4.95**	
	1328.000	42.35	24.70	4.42	34.13	37.34	74.00	36.66	PK
	1418.000	43.90	25.31	4.60	34.14	39.67	74.00	34.33	
	1548.000	46.22	26.11	4.81	34.16	42.98	74.00	31.02	
	1696.000	44.91	26.65	5.11	34.17	42.50	74.00	31.50	
	1823.000	44.72	27.03	5.21	34.18	42.78	74.00	31.22	
	1996.000	45.07	28.10	5.30	34.20	44.27	74.00	29.73	
Vertical	33.880	15.66	17.44	0.64	--	33.74	40.00	6.26	QP
	44.550	**22.54**	**11.38**	**0.69**	--	**34.61**	**40.00**	**5.39**	
	148.340	19.63	11.41	1.22	--	32.26	43.50	11.24	
	173.560	25.70	10.09	1.38	--	37.17	43.50	6.33	
	386.960	16.46	16.24	2.16	--	34.86	46.00	11.14	
	959.260	10.13	22.13	3.55	--	35.81	46.00	10.19	
	1019.000	52.89	22.51	3.88	34.10	45.18	74.00	28.82	PK
	1152.000	49.91	23.45	4.13	34.11	43.38	74.00	30.62	
	1316.000	45.20	24.62	4.42	34.13	40.11	74.00	33.89	
	1529.000	47.20	26.00	4.78	34.15	43.83	74.00	30.17	
	1823.000	46.45	27.03	5.21	34.18	44.51	74.00	29.49	
	1991.000	44.24	28.05	5.29	34.20	43.38	74.00	30.62	

TEST ENGINEER: RAVEN JIN

5 DEVIATION TO TEST SPECIFICATIONS

None.

6 DEBUG DESCRIPTION

The following components are used during the countermeasure procedures:

Name	M/N	Specifications (mm)	Manufacturer	Location
Adhesive Tape	7250CP0005J	50*60	DAEHUNG SUBSIDIARY MATERIALS.	See Internal Photo Figure 11
Gasket	MCQ57884403 2EA	102*9*1T	DAEHUNG SUBSIDIARY MATERIALS.	See Internal Photo Figure 10-1, 10-3
Gasket	3940TKK041S 2EA	114*10*1T	DAEHUNG SUBSIDIARY MATERIALS.	See Appendix II Figure 10-2, 10-4

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

TEST ENGINEER: Raven Jin

(RAVEN JIN)