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

LCD Monitor

Model No.: D2343PB

Serial No.: 203NDSK4T126

FCC ID : BEJD2343PB

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-F12055
Date of Test : Mar 30 – Apr 01, 2012
Date of Report : Apr 06, 2012

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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. : D2343PB

(B) Serial No. : 203NDSK4T126

(C) Power Supply : 120V/60Hz

Test Procedure Used:

FCC RULES AND REGULATIONS PART 15 SUBPART B CLASS B OCTOBER 2010 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: D2343PB; S/N: 203NDSK4T126) which was tested in 3m anechoic chamber Mar 30 – Apr 01, 2012 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 30 – Apr 01, 2012 Date of Report : Apr 06, 2012

Producer : Yenny Yu.
YENNY YU / Assistant

Review : Dio Yang.
DIO YANG / Assistant Manager

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

Signatory : Sammy Chen
Authorized Signature EMC SAMMY CHEN / Deputy 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 2010 AND ANSI C63.4-2003	15.107(a) Class B	Pass
Radiated Disturbance	FCC RULES AND REGULATIONS PART 15 SUBPART B OCTOBER 2010 AND ANSI C63.4-2003	15.109(a) Class B	Pass

2 GENERAL INFORMATION

2.1 Description of Equipment Under Test

Description : LCD Monitor

Model No. : D2343PB

Serial No. : 203NDSK4T126

Real Power : 22.10W (Adapter #1)
22.30W (Adapter #2)
22.30W (Adapter #3)
22.10W (Adapter #4)

AC Adapter #1 :
- Manufacturer : LIEN CHANG
- Model Number : LCAP21A
- Input : 100-240V~, 50-60Hz 1.1A
- Output : 19V ⎓ 1.7A
- Output Cable : Unshielded, Undetachable, 1.8m, with one core

AC Adapter #2 :
- Manufacturer : HONOR
- Model Number : ADS-40SG-19-3 19032G
- Input : 100-240V~, 50-60Hz 1.0A
- Output : 19V ⎓ 1.7A
- Output Cable : Unshielded, Undetachable, 1.8m

AC Adapter #3 :
- Manufacturer : HONOR
- Model Number : ADS-40FSG-19 19032G***-1 (*** can be PG, PBR, PI, PCU, ADS-40FSG-19 19032GPCU-1 was selected was the test model.)
- Input : 100-240V~, 50-60Hz 1.0A
- Output : 19V ⎓ 1.7A
- Output Cable : Unshielded, Undetachable, 1.8m

AC Adapter #4 :
- Manufacturer : LIEN CHANG
- Model Number : LCAP26A-* (* can be A, E, I, B, LCAP26A-A was selected as the test model.)
- Input : 100-240V~, 50-60Hz 1.1A
- Output : 19V ⎓ 1.7A
- Output Cable : Unshielded, Undetachable, 1.8m

Applicant	:	LG Electronics U.S.A., Inc. No.346, YaoXin Road Economic&Technical Development Zone, Nanjing, China
Manufacturer	:	LG Electronics Nanjing Display Co., Ltd. No.346, YaoXin Road Economic&Technical Development Zone, Nanjing, China
LCD Panel	:	Manufacturer : LG Display M/N : LM230WFA
Max Resolution	:	1920*1080@60Hz
D-Sub Cable #1	:	Shielded, Detachable, 1.50m
D-Sub Cable #2	:	Shielded, Detachable, 1.85m
DVI Cable #1	:	Shielded, Detachable, 1.50m
DVI Cable #2	:	Shielded, Detachable, 1.85m
Power Cord		Unshielded, Detachable, 1.50m
Note	:	The D-Sub cable #2 and DVI cable #2 were selected to be used in the test.

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 / DVD PLAYER

(4) One Earphone Port : Connected with Earphone

(5) One DC In Port : Connected with Adapter

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 Graphics Card (Used in PC)

Manufacturer	:	Asus
Model Number	:	EAH6670
Output port	:	DVI, D-Sub, HDMI

2.2.3 Printer

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

2.2.4 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

2.2.5 Mouse

Manufacturer	:	Microsoft
Model Number	:	RT2300
Serial Number	:	6965712071551
Data Cable	:	Shielded, Undetachable, 1.8m.
Certificate	:	CE/EMC, FCC DoC, VCCI, MIC, C-Tick, BSMI

2.2.6 Modem

Manufacturer	:	TP-LINK
Model Number	:	TM-EC5658V
Serial Number	:	07123301053
Data Cable	:	Shielded, Detachable, 1.8m
Certificate	:	FCC DoC, CE/EMC, CCC

2.2.7 DVD PLAYER

Manufacturer	:	PHILIPS
Model Number	:	DVP3986K/93
Serial Number	:	KX1A0902120108
Data Cable	:	Shielded, Detachable, 1.80m
Certificate	:	FCC DoC, CE/EMC, CCC

2.2.8 Earphone

Manufacturer	:	SONY
Model Number	:	MDR-E808
Serial Number	:	1808030805305506
Data Cable	:	Shielded, Detachable, 1.8m

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 = 3.43 dB

Radiated Emission Expanded Uncertainty (30-200MHz):

U = 4.67 dB (Horizontal)

U = 4.72 dB (Vertical)

Radiated Emission Expanded Uncertainty (200M-1GHz):

U = 4.81 dB (Horizontal)

U = 4.69 dB (Vertical)

Radiated Emission Expanded Uncertainty (Above 1GHz):

U= 4.50 dB (Horizontal)

U= 4.16 dB (Vertical)

3 CONDUCTED EMISSION TEST

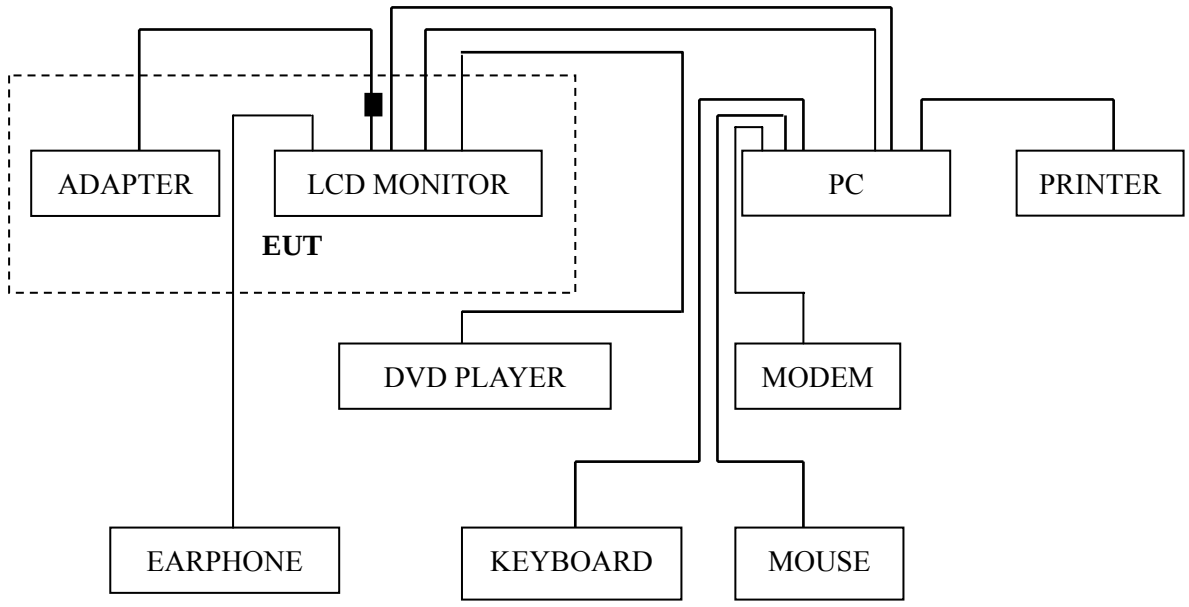
3.1 Test Equipment

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	ESCI	100841	Mar 22, 2012	Mar 22, 2013
2.	Artificial Mains Network (AMN #1)	R&S	ESH2-Z5	843890/011	Mar 22, 2012	Mar 22, 2013
3.	Artificial Mains Network (AMN #2)	R&S	ENV4200	100125	Mar 22, 2012	Mar 22, 2013
4.	50 Ω Coaxial Switch	Anritsu	MP59B	6200426389	Mar 18, 2012	Sep 18, 2012
5.	50Ω Terminator	Anritsu	BNC	001	Mar 22, 2012	Mar 22, 2013
6.	Software	Audix	E3	SET00200 9804M592	--	--

3.2 Block Diagram of Test Setup

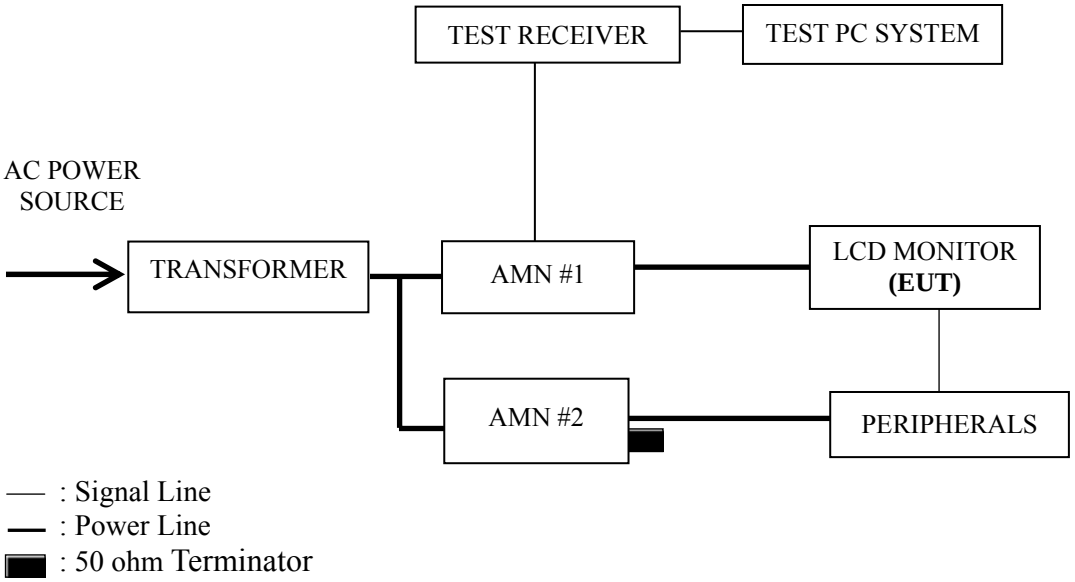
3.2.1 EUT & Peripherals



■ : Ferrite core

Note: Ferrite core only for Adapter #1

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 (we use white letters on a black background to represent all colors), the EUT's screen displayed and filled with "H" pattern by its resolution (Via D-Sub/DVI Input).

3.5.5 In HDMI mode, the EUT connected to PC or DVD PLAYER through HDMI port.

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:

Adapter	Test Mode
Adapter #1	D-Sub 1920*1080@60Hz
	DVI 1920*1080@60Hz
	HDMI 1920*1080@60Hz
	HDMI 1080P
	HDMI 1680*1050@60Hz
	HDMI 1280*1024@75Hz
	HDMI 640*480@60Hz
Adapter #2	HDMI 1920*1080@60Hz
Adapter #3	HDMI 1920*1080@60Hz
Adapter #4	HDMI 1920*1080@60Hz

NOTE: We tested the EUT with adapter #1 and selected the worst test mode to perform test with adapter #2/#3/#4.

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.

Adapter	Test Mode	Page
Adapter #1	D-Sub 1920*1080@60Hz	P13
	DVI 1920*1080@60Hz	P14
	HDMI 1920*1080@60Hz	P15
	HDMI 1080P	P16
	HDMI 1680*1050@60Hz	P17
	HDMI 1280*1024@75Hz	P18
	HDMI 640*480@60Hz	P19
Adapter #2	**HDMI 1920*1080@60Hz**	**P20**
Adapter #3	HDMI 1920*1080@60Hz	P21
Adapter #4	HDMI 1920*1080@60Hz	P22

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 HDMI 1920*1080@60Hz test mode (Adapter #2). The worst emission is detected at 0.152 MHz (Quasi-Peak Value) with corrected signal level of 58.68 dB (μV) (limit is 65.91 dB (μV)), when the Neutral of the EUT is connected to AMN.

EUT	: LCD Monitor	Temperature	:	22℃	
Model No.	: D2343PB	Humidity	:	48%RH	
Serial No.	: 203NDSK4T126	Date of Test	:	Mar 30, 2012	
Test Mode	: D-Sub 1920*1080@60Hz	Adapter #1	:	LCAP21A	

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.151	54.19	0.23	54.42	65.96	11.54	QP
	0.466	34.44	0.35	34.79	56.58	21.79	
	1.645	31.77	0.37	32.14	56.00	23.86	
	2.358	31.11	0.40	31.51	56.00	24.49	
	4.158	37.19	0.49	37.68	56.00	18.32	
	5.993	33.24	0.58	33.82	60.00	26.18	
	0.151	44.00	0.23	44.23	55.96	11.73	AV
	0.466	23.88	0.35	24.23	46.58	22.35	
	1.645	22.22	0.37	22.59	46.00	23.41	
	2.358	21.20	0.40	21.60	46.00	24.40	
	4.158	26.96	0.49	27.45	46.00	18.55	
	5.993	22.46	0.58	23.04	50.00	26.96	
Neutral	0.151	53.91	0.13	54.04	65.96	11.92	QP
	0.461	36.01	0.17	36.18	56.67	20.49	
	1.602	32.18	0.17	32.35	56.00	23.65	
	2.358	32.70	0.19	32.89	56.00	23.11	
	4.070	37.73	0.40	38.13	56.00	17.87	
	6.420	34.84	0.55	35.39	60.00	24.61	
	0.151	**44.50**	**0.13**	**44.63**	**55.96**	**11.33**	AV
	0.461	26.04	0.17	26.21	46.67	20.46	
	1.602	21.92	0.17	22.09	46.00	23.91	
	2.358	21.92	0.19	22.11	46.00	23.89	
	4.070	28.14	0.40	28.54	46.00	17.46	
	6.420	24.06	0.55	24.61	50.00	25.39	

TEST ENGINEER: WENCY YANG

EUT	: LCD Monitor	Temperature	:	22℃	
Model No.	: D2343PB	Humidity	:	48%RH	
Serial No.	: 203NDSK4T126	Date of Test	:	Mar 30, 2012	
Test Mode	: DVI 1920*1080@60Hz	Adapter #1	:	LCAP21A	

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.151	53.75	0.23	53.98	65.96	11.98	QP
	0.435	34.40	0.35	34.75	57.15	22.40	
	1.610	31.74	0.37	32.11	56.00	23.89	
	2.273	31.58	0.40	31.98	56.00	24.02	
	4.114	37.68	0.49	38.17	56.00	17.83	
	6.121	34.54	0.59	35.13	60.00	24.87	
	0.151	43.70	0.23	43.93	55.96	12.03	AV
	0.435	24.98	0.35	25.33	47.15	21.82	
	1.610	22.02	0.37	22.39	46.00	23.61	
	2.273	21.90	0.40	22.30	46.00	23.70	
	4.114	26.86	0.49	27.35	46.00	18.65	
	6.121	23.64	0.59	24.23	50.00	25.77	
Neutral	**0.153**	**54.01**	**0.13**	**54.14**	**65.82**	**11.68**	QP
	0.447	36.05	0.17	36.22	56.93	20.71	
	1.210	30.94	0.21	31.15	56.00	24.85	
	2.309	31.39	0.19	31.58	56.00	24.42	
	4.269	38.39	0.40	38.79	56.00	17.21	
	6.285	35.12	0.53	35.65	60.00	24.35	
	0.153	42.90	0.13	43.03	55.82	12.79	AV
	0.447	26.44	0.17	26.61	46.93	20.32	
	1.210	21.42	0.21	21.63	46.00	24.37	
	2.309	20.92	0.19	21.11	46.00	24.89	
	4.269	28.14	0.40	28.54	46.00	17.46	
	6.285	23.47	0.53	24.00	50.00	26.00	

TEST ENGINEER: WENCY YANG

EUT	: LCD Monitor	Temperature	:	22℃	
Model No.	: D2343PB	Humidity	:	48%RH	
Serial No.	: 203NDSK4T126	Date of Test	:	Mar 30, 2012	
Test Mode	: HDMI 1920*1080@60Hz	Adapter #1	:	LCAP21A	

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	**0.155**	**55.52**	**0.24**	**55.76**	**65.74**	**9.98**	QP
	0.521	36.60	0.34	36.94	56.00	19.06	
	1.662	33.65	0.37	34.02	56.00	21.98	
	2.384	34.01	0.40	34.41	56.00	21.59	
	4.114	37.94	0.49	38.43	56.00	17.57	
	6.121	34.75	0.59	35.34	60.00	24.66	
	0.155	44.78	0.24	45.02	55.74	10.72	AV
	0.521	25.70	0.34	26.04	46.00	19.96	
	1.662	23.02	0.37	23.39	46.00	22.61	
	2.384	23.90	0.40	24.30	46.00	21.70	
	4.114	27.26	0.49	27.75	46.00	18.25	
	6.121	24.14	0.59	24.73	50.00	25.27	
Neutral	0.152	54.90	0.13	55.03	65.91	10.88	QP
	0.447	36.77	0.17	36.94	56.93	19.99	
	1.449	31.60	0.19	31.79	56.00	24.21	
	2.396	33.59	0.19	33.78	56.00	22.22	
	4.224	39.25	0.40	39.65	56.00	16.35	
	6.252	35.72	0.53	36.25	60.00	23.75	
	0.152	44.20	0.13	44.33	55.91	11.58	AV
	0.447	26.64	0.17	26.81	46.93	20.12	
	1.449	21.18	0.19	21.37	46.00	24.63	
	2.396	23.42	0.19	23.61	46.00	22.39	
	4.224	29.14	0.40	29.54	46.00	16.46	
	6.252	25.27	0.53	25.80	50.00	24.20	

TEST ENGINEER: WENCY YANG

EUT	:	LCD Monitor	Temperature	:	22℃
Model No.	:	D2343PB	Humidity	:	48%RH
Serial No.	:	203NDSK4T126	Date of Test	:	Mar 30, 2012
Test Mode	:	HDMI 1080P	Adapter #1	:	LCAP21A

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.151	53.28	0.23	53.51	65.96	12.45	QP
	0.466	34.53	0.35	34.88	56.58	21.70	
	1.568	31.78	0.37	32.15	56.00	23.85	
	2.678	32.16	0.40	32.56	56.00	23.44	
	4.202	38.35	0.49	38.84	56.00	17.16	
	5.774	33.10	0.55	33.65	60.00	26.35	
	0.151	42.80	0.23	43.03	55.96	12.93	AV
	0.466	24.18	0.35	24.53	46.58	22.05	
	1.568	21.72	0.37	22.09	46.00	23.91	
	2.678	21.00	0.40	21.40	46.00	24.60	
	4.202	26.56	0.49	27.05	46.00	18.95	
	5.774	22.21	0.55	22.76	50.00	27.24	
Neutral	**0.153**	**53.61**	**0.13**	**53.74**	**65.82**	**12.08**	QP
	0.440	36.53	0.17	36.70	57.07	20.37	
	1.645	32.77	0.17	32.94	56.00	23.06	
	2.622	31.66	0.20	31.86	56.00	24.14	
	4.114	38.48	0.40	38.88	56.00	17.12	
	6.121	34.64	0.52	35.16	60.00	24.84	
	0.153	43.00	0.13	43.13	55.82	12.69	AV
	0.440	25.34	0.17	25.51	47.07	21.56	
	1.645	22.52	0.17	22.69	46.00	23.31	
	2.622	21.10	0.20	21.30	46.00	24.70	
	4.114	27.84	0.40	28.24	46.00	17.76	
	6.121	24.69	0.52	25.21	50.00	24.79	

TEST ENGINEER: WENCY YANG

EUT	: LCD Monitor	Temperature	:	22℃	
Model No.	: D2343PB	Humidity	:	48%RH	
Serial No.	: 203NDSK4T126	Date of Test	:	Mar 30, 2012	
Test Mode	: HDMI 1680*1050@60Hz	Adapter #1	:	LCAP21A	

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.156	52.92	0.24	53.16	65.65	12.49	QP
	0.505	34.77	0.35	35.12	56.00	20.88	
	1.610	31.38	0.37	31.75	56.00	24.25	
	2.622	31.33	0.40	31.73	56.00	24.27	
	4.158	36.79	0.49	37.28	56.00	18.72	
	5.929	34.60	0.57	35.17	60.00	24.83	
	0.156	43.38	0.24	43.62	55.65	12.03	AV
	0.505	23.88	0.35	24.23	46.00	21.77	
	1.610	20.62	0.37	20.99	46.00	25.01	
	2.622	20.60	0.40	21.00	46.00	25.00	
	4.158	25.46	0.49	25.95	46.00	20.05	
	5.929	24.08	0.57	24.65	50.00	25.35	
Neutral	**0.151**	**53.91**	**0.13**	**54.04**	**65.96**	**11.92**	QP
	0.444	36.67	0.17	36.84	56.98	20.14	
	1.433	31.83	0.19	32.02	56.00	23.98	
	2.384	32.81	0.19	33.00	56.00	23.00	
	4.070	38.77	0.40	39.17	56.00	16.83	
	6.121	34.23	0.52	34.75	60.00	25.25	
	0.151	43.20	0.13	43.33	55.96	12.63	AV
	0.444	25.24	0.17	25.41	46.98	21.57	
	1.433	22.28	0.19	22.47	46.00	23.53	
	2.384	22.62	0.19	22.81	46.00	23.19	
	4.070	27.74	0.40	28.14	46.00	17.86	
	6.121	22.69	0.52	23.21	50.00	26.79	

TEST ENGINEER: WENCY YANG

EUT	: LCD Monitor	Temperature	: 22℃		
Model No.	: D2343PB	Humidity	: 48%RH		
Serial No.	: 203NDSK4T126	Date of Test	: Mar 30, 2012		
Test Mode	: HDMI 1280*1024@75Hz	Adapter #1	: LCAP21A		

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.152	53.24	0.23	53.47	65.91	12.44	QP
	0.440	34.50	0.35	34.85	57.07	22.22	
	1.197	31.37	0.33	31.70	56.00	24.30	
	2.900	31.78	0.41	32.19	56.00	23.81	
	4.158	37.85	0.49	38.34	56.00	17.66	
	6.252	35.10	0.60	35.70	60.00	24.30	
	0.152	43.00	0.23	43.23	55.91	12.68	AV
	0.440	24.08	0.35	24.43	47.07	22.64	
	1.197	20.69	0.33	21.02	46.00	24.98	
	2.900	21.79	0.41	22.20	46.00	23.80	
	4.158	27.66	0.49	28.15	46.00	17.85	
	6.252	23.43	0.60	24.03	50.00	25.97	
Neutral	**0.153**	**53.49**	**0.13**	**53.62**	**65.82**	**12.20**	QP
	0.444	36.65	0.17	36.82	56.98	20.16	
	1.602	31.51	0.17	31.68	56.00	24.32	
	2.358	32.12	0.19	32.31	56.00	23.69	
	4.114	38.94	0.40	39.34	56.00	16.66	
	6.252	34.35	0.53	34.88	60.00	25.12	
	0.153	43.00	0.13	43.13	55.82	12.69	AV
	0.444	25.14	0.17	25.31	46.98	21.67	
	1.602	21.72	0.17	21.89	46.00	24.11	
	2.358	22.72	0.19	22.91	46.00	23.09	
	4.114	28.94	0.40	29.34	46.00	16.66	
	6.252	24.17	0.53	24.70	50.00	25.30	

TEST ENGINEER: WENCY YANG

EUT	:	LCD Monitor	Temperature	:	22℃
Model No.	:	D2343PB	Humidity	:	48%RH
Serial No.	:	203NDSK4T126	Date of Test	:	Mar 30, 2012
Test Mode	:	HDMI 640*480@60Hz	Adapter #1	:	LCAP21A

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	**0.152**	**53.95**	**0.23**	**54.18**	**65.91**	**11.73**	QP
	0.466	34.72	0.35	35.07	56.58	21.51	
	1.628	32.06	0.37	32.43	56.00	23.57	
	2.334	31.37	0.40	31.77	56.00	24.23	
	4.114	35.95	0.49	36.44	56.00	19.56	
	6.056	33.47	0.59	34.06	60.00	25.94	
	0.152	42.90	0.23	43.13	55.91	12.78	AV
	0.466	24.08	0.35	24.43	46.58	22.15	
	1.628	21.62	0.37	21.99	46.00	24.01	
	2.334	21.20	0.40	21.60	46.00	24.40	
	4.114	25.16	0.49	25.65	46.00	20.35	
	6.056	22.75	0.59	23.34	50.00	26.66	
Neutral	0.151	53.86	0.13	53.99	65.96	11.97	QP
	0.452	36.44	0.17	36.61	56.85	20.24	
	1.602	31.97	0.17	32.14	56.00	23.86	
	2.707	31.33	0.20	31.53	56.00	24.47	
	4.114	38.45	0.40	38.85	56.00	17.15	
	6.285	34.62	0.53	35.15	60.00	24.85	
	0.151	43.10	0.13	43.23	55.96	12.73	AV
	0.452	24.84	0.17	25.01	46.85	21.84	
	1.602	22.02	0.17	22.19	46.00	23.81	
	2.707	21.50	0.20	21.70	46.00	24.30	
	4.114	27.84	0.40	28.24	46.00	17.76	
	6.285	23.67	0.53	24.20	50.00	25.80	

TEST ENGINEER: WENCY YANG

EUT	:	LCD Monitor	Temperature	:	22℃
Model No.	:	D2343PB	Humidity	:	48%RH
Serial No.	:	203NDSK4T126	Date of Test	:	Mar 30, 2012
Test Mode	:	HDMI 1920*1080@60Hz	Adapter #2	:	ADS-40SG-19-3 19032G

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.153	57.54	0.23	57.77	65.82	8.05	QP
	0.406	42.33	0.33	42.66	57.73	15.07	
	1.210	38.26	0.33	38.59	56.00	17.41	
	2.581	37.97	0.40	38.37	56.00	17.63	
	4.952	40.48	0.50	40.98	56.00	15.02	
	8.822	33.62	0.72	34.34	60.00	25.66	
	0.153	46.50	0.23	46.73	55.82	9.09	AV
	0.406	30.70	0.33	31.03	47.73	16.70	
	1.210	28.29	0.33	28.62	46.00	17.38	
	2.581	26.60	0.40	27.00	46.00	19.00	
	4.952	29.37	0.50	29.87	46.00	16.13	
	8.822	22.82	0.72	23.54	50.00	26.46	
Neutral	**0.152**	**58.55**	**0.13**	**58.68**	**65.91**	**7.23**	QP
	0.421	42.60	0.17	42.77	57.42	14.65	
	1.141	39.42	0.22	39.64	56.00	16.36	
	2.474	37.89	0.19	38.08	56.00	17.92	
	4.874	38.95	0.42	39.37	56.00	16.63	
	16.226	33.81	0.74	34.55	60.00	25.45	
	0.152	47.50	0.13	47.63	55.91	8.28	AV
	0.421	31.64	0.17	31.81	47.42	15.61	
	1.141	28.21	0.22	28.43	46.00	17.57	
	2.474	27.52	0.19	27.71	46.00	18.29	
	4.874	28.32	0.42	28.74	46.00	17.26	
	16.226	23.93	0.74	24.67	50.00	25.33	

TEST ENGINEER: WENCY YANG

EUT	:	LCD Monitor	Temperature	:	22℃
Model No.	:	D2343PB	Humidity	:	48%RH
Serial No.	:	203NDSK4T126	Date of Test	:	Mar 30, 2012
Test Mode	:	HDMI 1920*1080@60Hz	Adapter #3	:	ADS-40FSG-19 19032GPCU-1

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.152	50.96	0.23	51.19	65.91	14.72	QP
	0.489	34.43	0.35	34.78	56.19	21.41	
	1.172	31.87	0.32	32.19	56.00	23.81	
	2.422	29.34	0.40	29.74	56.00	26.26	
	3.547	27.63	0.47	28.10	56.00	27.90	
	8.148	27.26	0.68	27.94	60.00	32.06	
	0.152	40.20	0.23	40.43	55.91	15.48	AV
	0.489	23.78	0.35	24.13	46.19	22.06	
	1.172	20.90	0.32	21.22	46.00	24.78	
	2.422	20.10	0.40	20.50	46.00	25.50	
	3.547	18.26	0.47	18.73	46.00	27.27	
	8.148	18.48	0.68	19.16	50.00	30.84	
Neutral	**0.156**	**50.94**	**0.13**	**51.07**	**65.65**	**14.58**	QP
	0.406	36.45	0.16	36.61	57.73	21.12	
	1.403	32.22	0.20	32.42	56.00	23.58	
	2.554	33.12	0.20	33.32	56.00	22.68	
	4.070	31.13	0.40	31.53	56.00	24.47	
	8.323	26.96	0.55	27.51	60.00	32.49	
	0.156	40.70	0.13	40.83	55.65	14.82	AV
	0.406	25.65	0.16	25.81	47.73	21.92	
	1.403	21.66	0.20	21.86	46.00	24.14	
	2.554	22.30	0.20	22.50	46.00	23.50	
	4.070	20.04	0.40	20.44	46.00	25.56	
	8.323	18.25	0.55	18.80	50.00	31.20	

TEST ENGINEER: WENCY YANG

EUT	: LCD Monitor	Temperature	:	22℃	
Model No.	: D2343PB	Humidity	:	48%RH	
Serial No.	: 203NDSK4T126	Date of Test	:	Mar 30, 2012	
Test Mode	: HDMI 1920*1080@60Hz	Adapter #4	:	LCAP26A-A	

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.161	54.67	0.24	54.91	65.43	10.52	QP
	0.402	36.32	0.33	36.65	57.81	21.16	
	1.449	30.94	0.36	31.30	56.00	24.70	
	2.554	31.82	0.40	32.22	56.00	23.78	
	4.269	33.78	0.49	34.27	56.00	21.73	
	6.285	32.00	0.60	32.60	60.00	27.40	
	0.161	44.12	0.24	44.36	55.43	11.07	AV
	0.402	25.00	0.33	25.33	47.81	22.48	
	1.449	20.74	0.36	21.10	46.00	24.90	
	2.554	21.10	0.40	21.50	46.00	24.50	
	4.269	23.56	0.49	24.05	46.00	21.95	
	6.285	21.53	0.60	22.13	50.00	27.87	
Neutral	**0.153**	**55.63**	**0.13**	**55.76**	**65.82**	**10.06**	QP
	0.461	37.94	0.17	38.11	56.67	18.56	
	1.223	34.42	0.21	34.63	56.00	21.37	
	2.500	33.13	0.20	33.33	56.00	22.67	
	4.315	37.72	0.40	38.12	56.00	17.88	
	6.420	34.33	0.55	34.88	60.00	25.12	
	0.153	44.70	0.13	44.83	55.82	10.99	AV
	0.461	27.04	0.17	27.21	46.67	19.46	
	1.223	23.42	0.21	23.63	46.00	22.37	
	2.500	22.30	0.20	22.50	46.00	23.50	
	4.315	27.44	0.40	27.84	46.00	18.16	
	6.420	23.06	0.55	23.61	50.00	26.39	

TEST ENGINEER: WENCY YANG

4 RADIATED EMISSION TEST

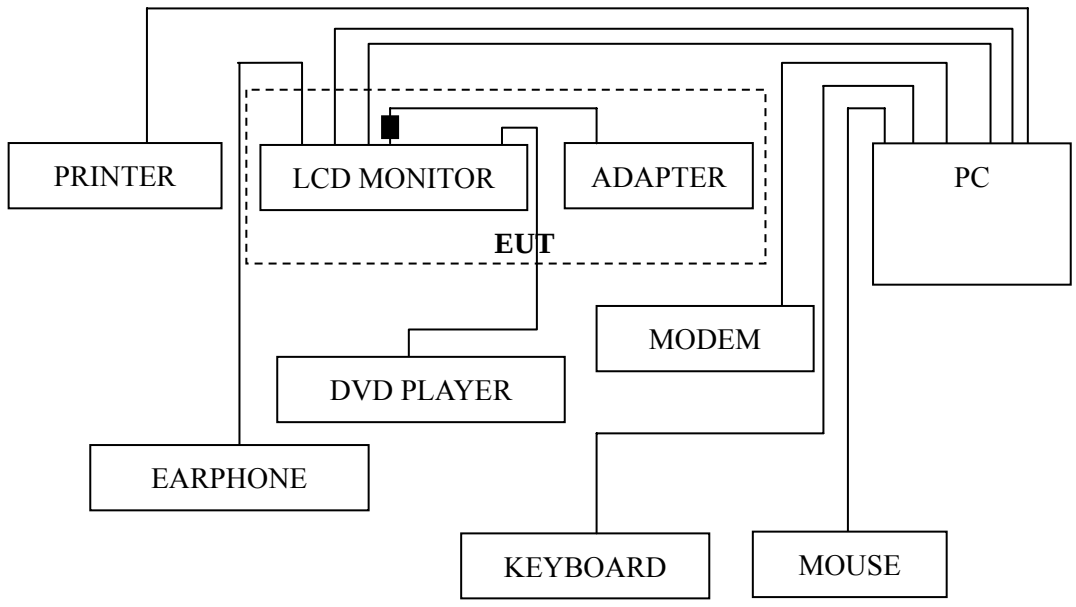
4.1 Test Equipment

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 22, 2012	Mar 22, 2013
2.	Preamplifier	Agilent	8447D	2944A10548	Mar 18, 2012	Sep 18, 2012
3.	Preamplifier	HP	8449B	3008A00864	Mar 22, 2012	Mar 22, 2013
4.	Bi-log Antenna	TESEQ	CBL6112D	23192	Dec 01, 2011	Dec 01, 2012
5.	Horn Antenna	EMCO	3115	9607-4878	May 06, 2011	May 06, 2012
6.	Spectrum	Agilent	E7405A	MY45106600	Mar 22, 2012	Mar 22, 2013
7.	50Ω Coaxial Switch	Anritsu	MP59B	6200426390	Mar 18, 2012	Sep 18, 2012
8.	Software	Audix	E3	SET00200 9912M295-2	--	--

4.2 Block Diagram of Test Setup

4.2.1 EUT and Peripherals

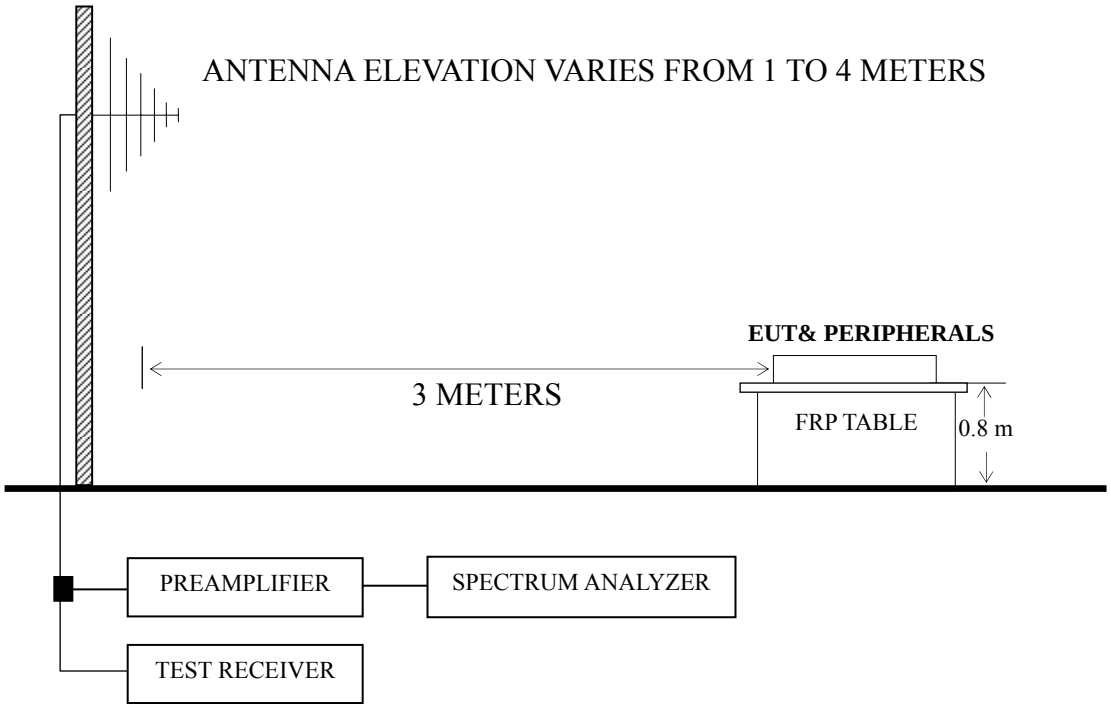


■ : Ferrite core

Note: Ferrite core only for Adapter #1

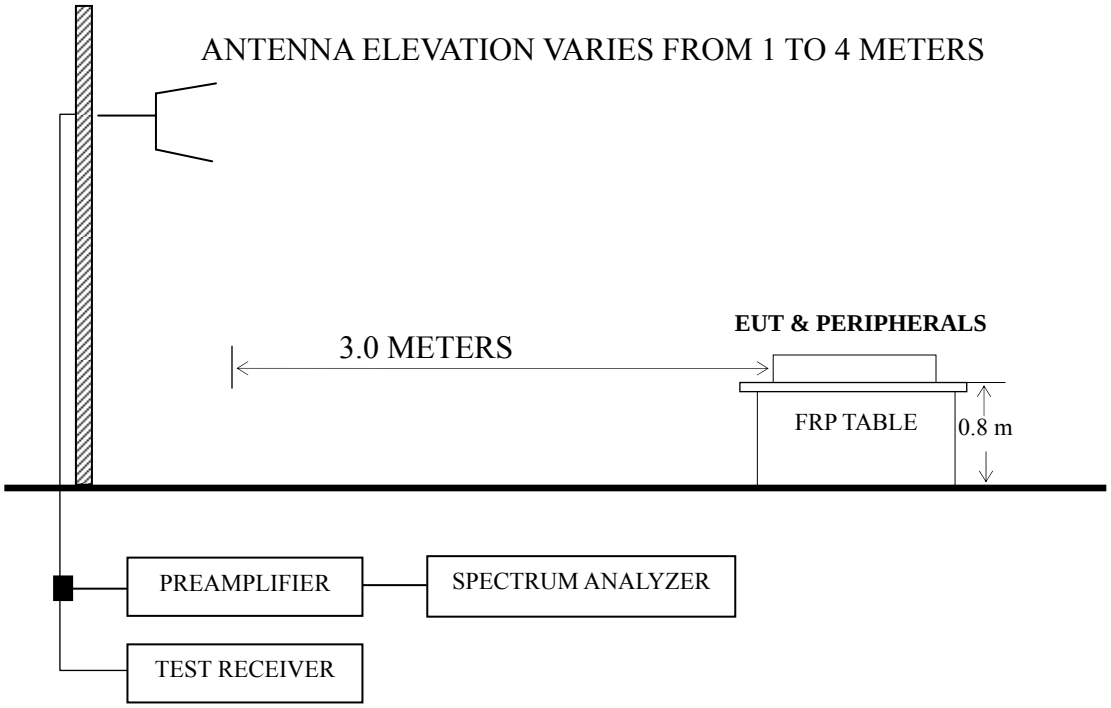
4.2.2 Radiated emission test setup

4.2.2.1 Below 1GHz



■ : 50 ohm Coaxial Switch

4.2.2.2 Above 1GHz



■ : 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) or Horn 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 I.F. 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 worst test mode in 30 – 1000 MHz test.

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.

Adapter	Test Mode	Data Page
Adapter #1	**D-Sub 1920*1080@60Hz**	**P28 – P29**
	DVI 1920*1080@60Hz	P30
	HDMI 1920*1080@60Hz	P31
	HDMI 1080P	P32
	D-Sub 1680*1050@60Hz	P33
	D-Sub 1280*1024@75Hz	P34
	D-Sub 640*480@60Hz	P35
Adapter #2	D-Sub 1920*1080@60Hz	P36 – P37
Adapter #3	D-Sub 1920*1080@60Hz	P38 – P39
Adapter #4	D-Sub 1920*1080@60Hz	P40 – P41

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 – All readings are Quasi-Peak values below or equal to 1GHz, Peak values above 1GHz.
(according to ANSI C63.4-2003 8.3.1.2 NOTES 1:
Where limits are specified by agencies for both average and peak (or quasi-peak) detection, if the peak (or quasipeak) measured value complies with the average limit, it is unnecessary to perform an average measurement.)
NOTE 5 – The emission levels that are 20dB below the official limit are not reported.
NOTE 6 – 0° was the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.
NOTE 7 – We tested the EUT with adapter #1 and selected the worst test mode to perform test with adapter #2/#3/#4.
NOTE 8 – The worst case is for D-Sub 1920*1080@60Hz test mode (Adapter #1). The worst emission at horizontal polarization was detected at 602.240 MHz with corrected signal level of 41.38 dB (μV/m) (limit is 46.00 dB (μV/m)), when the antenna was 1.00 m height and the turntable was at 25°. The worst emission at vertical polarization was detected at 215.27 MHz with corrected signal level of 36.22 dB (μV/m) (limit is 43.50 dB (μV/m)), when the antenna was 1.00 m height and the turntable was at 243°.

EUT	:	LCD Monitor	Temperature :	22℃	
Model No.	:	D2343PB	Humidity	:	60%RH
Serial No.	:	203NDSK4T126	Date of Test	:	Feb 22, 2012
Test Mode	:	D-Sub 1920*1080@60Hz	Adapter #1	:	LCAP21A

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	40.670	15.71	12.33	0.87	--	28.91	40.00	11.09	QP
	149.310	17.28	10.43	2.23	--	29.94	43.50	13.56	
	225.940	19.14	10.88	2.52	--	32.54	46.00	13.46	
	526.640	16.13	17.76	3.33	--	37.22	46.00	8.78	
	604.240	**19.65**	**18.26**	**3.47**	**--**	**41.38**	**46.00**	**4.62**	
	969.930	11.00	20.67	5.15	--	36.82	54.00	17.18	
	1150.000	47.95	25.56	5.32	37.88	40.95	74.00	33.05	PK
	1275.000	50.47	26.21	5.47	37.57	44.58	74.00	29.42	
	1350.000	48.00	26.53	5.53	37.38	42.68	74.00	31.32	
	1490.000	47.97	26.98	5.76	37.00	43.71	74.00	30.29	
	1600.000	51.20	27.08	5.93	36.76	47.45	74.00	26.55	
	1940.000	46.73	27.36	6.35	36.27	44.17	74.00	29.83	

TEST ENGINEER: RAVEN JIN

EUT	:	LCD Monitor	Temperature :	22℃
Model No.	:	D2343PB	Humidity :	60%RH
Serial No.	:	203NDSK4T126	Date of Test :	Feb 22, 2012
Test Mode	:	D-Sub 1920*1080@60Hz	Adapter #1 :	LCAP21A

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
Vertical	147.370	21.13	10.46	2.22	--	33.81	43.50	9.69	QP
	215.270	**23.32**	**10.41**	**2.49**	--	**36.22**	**43.50**	**7.28**	
	226.910	23.75	10.93	2.53	--	37.21	46.00	8.79	
	268.620	18.76	12.74	2.66	--	34.16	46.00	11.84	
	300.630	18.18	13.73	2.76	--	34.67	46.00	11.33	
	859.350	10.85	20.42	4.45	--	35.72	46.00	10.28	
	1290.000	47.87	26.28	5.47	37.54	42.08	74.00	31.92	PK
	1400.000	50.17	26.70	5.59	37.24	45.22	74.00	28.78	
	1490.000	53.40	26.98	5.76	37.00	49.14	74.00	24.86	
	1600.000	49.81	27.08	5.93	36.76	46.06	74.00	27.94	
	1790.000	48.14	27.25	6.20	36.45	45.14	74.00	28.86	
	1925.000	51.51	27.36	6.35	36.28	48.94	74.00	25.06	

TEST ENGINEER: RAVEN JIN

EUT	:	LCD Monitor	Temperature :	22℃
Model No.	:	D2343PB	Humidity :	60%RH
Serial No.	:	203NDSK4T126	Date of Test :	Feb 22, 2012
Test Mode	:	DVI 1920*1080@60Hz	Adapter #1 :	LCAP21A

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	106.630	16.40	11.24	1.92	29.56	43.50	13.94
	148.340	18.11	10.44	2.22	30.77	43.50	12.73
	224.970	20.22	10.84	2.52	33.58	46.00	12.42
	526.640	16.13	17.76	3.33	37.22	46.00	8.78
	591.630	15.77	18.16	3.45	37.38	46.00	8.62
	654.680	**15.51**	**18.93**	**3.60**	**38.04**	**46.00**	**7.96**
Vertical	32.910	13.74	16.79	0.82	31.35	40.00	8.65
	147.370	21.13	10.46	2.22	33.81	43.50	9.69
	215.270	**22.32**	**10.41**	**2.49**	**35.22**	**43.50**	**8.28**
	300.630	18.18	13.73	2.76	34.67	46.00	11.33
	859.350	11.85	20.42	4.45	36.72	46.00	9.28
	990.300	13.94	20.76	5.18	39.88	54.00	14.12

TEST ENGINEER: RAVEN JIN

EUT	:	LCD Monitor	Temperature	:	22℃
Model No.	:	D2343PB	Humidity	:	60%RH
Serial No.	:	203NDSK4T126	Date of Test	:	Feb 22, 2012
Test Mode	:	HDMI 1920*1080@60Hz	Adapter #1	:	LCAP21A

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	130.880	22.01	10.80	2.11	34.92	43.50	8.58
	224.970	20.22	10.84	2.52	33.58	46.00	12.42
	526.640	16.13	17.76	3.33	37.22	46.00	8.78
	604.240	15.65	18.26	3.47	37.38	46.00	8.62
	654.680	15.51	18.93	3.60	38.04	46.00	7.96
	858.380	**13.60**	**20.42**	**4.45**	**38.47**	**46.00**	**7.53**
Vertical	32.910	13.74	16.79	0.82	31.35	40.00	8.65
	215.270	**22.32**	**10.41**	**2.49**	**35.22**	**43.50**	**8.28**
	226.910	23.75	10.93	2.53	37.21	46.00	8.79
	268.620	18.76	12.74	2.66	34.16	46.00	11.84
	300.630	18.18	13.73	2.76	34.67	46.00	11.33
	474.260	14.22	17.29	3.19	34.70	46.00	11.30

TEST ENGINEER: RAVEN JIN

EUT	:	LCD Monitor	Temperature	:	22℃
Model No.	:	D2343PB	Humidity	:	60%RH
Serial No.	:	203NDSK4T126	Date of Test	:	Feb 22, 2012
Test Mode	:	HDMI 1080P	Adapter #1	:	LCAP21A

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	18.69	11.00	1.73	31.42	43.50	12.08
	226.910	21.50	10.93	2.53	34.96	46.00	11.04
	518.880	16.26	17.72	3.31	37.29	46.00	8.71
	606.180	16.15	18.30	3.47	37.92	46.00	8.08
	654.680	15.51	18.93	3.60	38.04	46.00	7.96
	858.380	**13.60**	**20.42**	**4.45**	**38.47**	**46.00**	**7.53**
Vertical	147.370	21.13	10.46	2.22	33.81	43.50	9.69
	215.270	**22.32**	**10.41**	**2.49**	**35.22**	**43.50**	**8.28**
	219.150	23.73	10.56	2.50	36.79	46.00	9.21
	268.620	18.76	12.74	2.66	34.16	46.00	11.84
	300.630	18.18	13.73	2.76	34.67	46.00	11.33
	859.350	11.85	20.42	4.45	36.72	46.00	9.28

TEST ENGINEER: RAVEN JIN

EUT	:	LCD Monitor	Temperature	:	22℃
Model No.	:	D2343PB	Humidity	:	60%RH
Serial No.	:	203NDSK4T126	Date of Test	:	Feb 22, 2012
Test Mode	:	D-Sub 1680*1050@60Hz	Adapter #1	:	LCAP21A

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	**35.820**	**17.59**	**15.19**	**0.84**	**33.62**	**40.00**	**6.38**
	224.970	19.70	10.84	2.52	33.06	46.00	12.94
	528.580	11.72	17.77	3.33	32.82	46.00	13.18
	572.230	12.71	18.05	3.40	34.16	46.00	11.84
	771.080	11.00	20.30	3.84	35.14	46.00	10.86
	882.630	11.64	20.35	4.75	36.74	46.00	9.26
Vertical	32.910	13.05	16.79	0.82	30.66	40.00	9.34
	142.520	17.49	10.56	2.18	30.23	43.50	13.27
	339.430	11.82	14.83	2.85	29.50	46.00	16.50
	429.640	14.44	16.69	3.08	34.21	46.00	11.79
	676.990	**14.48**	**19.22**	**3.64**	**37.34**	**46.00**	**8.66**
	988.360	12.57	20.74	5.18	38.49	54.00	15.51

TEST ENGINEER: RAVEN JIN

EUT	:	LCD Monitor	Temperature	:	22℃
Model No.	:	D2343PB	Humidity	:	60%RH
Serial No.	:	203NDSK4T126	Date of Test	:	Feb 22, 2012
Test Mode	:	D-Sub 1280*1024@75Hz	Adapter #1	:	LCAP21A

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**	**13.71**	**17.78**	**0.81**	**32.30**	**40.00**	**7.70**
	198.780	18.78	9.81	2.42	31.01	43.50	12.49
	224.000	18.98	10.80	2.52	32.30	46.00	13.70
	378.230	11.91	15.83	2.95	30.69	46.00	15.31
	606.180	12.75	18.30	3.47	34.52	46.00	11.48
	963.140	12.18	20.63	5.12	37.93	54.00	16.07
Vertical	**32.910**	**13.98**	**16.79**	**0.82**	**31.59**	**40.00**	**8.41**
	142.520	17.49	10.56	2.18	30.23	43.50	13.27
	268.620	15.18	12.74	2.66	30.58	46.00	15.42
	429.640	12.44	16.69	3.08	32.21	46.00	13.79
	644.980	11.62	18.81	3.58	34.01	46.00	11.99
	988.360	12.57	20.74	5.18	38.49	54.00	15.51

TEST ENGINEER: RAVEN JIN

EUT	:	LCD Monitor	Temperature	:	22℃
Model No.	:	D2343PB	Humidity	:	60%RH
Serial No.	:	203NDSK4T126	Date of Test	:	Feb 22, 2012
Test Mode	:	D-Sub 640*480@60Hz	Adapter #1	:	LCAP21A

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	**35.820**	**15.25**	**15.19**	**0.84**	**31.28**	**40.00**	**8.72**
	121.180	20.00	10.99	2.03	33.02	43.50	10.48
	208.480	21.46	10.15	2.46	34.07	43.50	9.43
	504.330	14.45	17.62	3.28	35.35	46.00	10.65
	609.090	13.52	18.33	3.49	35.34	46.00	10.66
	858.380	12.34	20.42	4.45	37.21	46.00	8.79
Vertical	**32.910**	**13.98**	**16.79**	**0.82**	**31.59**	**40.00**	**8.41**
	142.520	19.39	10.56	2.18	32.13	43.50	11.37
	225.940	22.17	10.88	2.52	35.57	46.00	10.43
	287.050	18.86	13.35	2.72	34.93	46.00	11.07
	578.050	12.33	18.08	3.42	33.83	46.00	12.17
	988.360	12.57	20.74	5.18	38.49	54.00	15.51

TEST ENGINEER: RAVEN JIN

EUT	:	LCD Monitor	Temperature :		22℃
Model No.	:	D2343PB	Humidity	:	60%RH
Serial No.	:	203NDSK4T126	Date of Test	:	Feb 22, 2012
Test Mode	:	D-Sub 1920*1080@60Hz	Adapter #2	:	ADS-40SG-19-3 19032G

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	106.630	13.23	11.24	1.92	--	26.39	43.50	17.11	QP
	208.480	**21.46**	**10.15**	**2.46**	**--**	**34.07**	**43.50**	**9.43**	
	286.080	15.21	13.32	2.72	--	31.25	46.00	14.75	
	572.230	13.53	18.05	3.40	--	34.98	46.00	11.02	
	819.580	11.23	20.54	4.11	--	35.88	46.00	10.12	
	963.140	12.18	20.63	5.12	--	37.93	54.00	16.07	
	1110.000	49.52	25.37	5.29	37.97	42.21	74.00	31.79	PK
	1275.000	50.70	26.21	5.47	37.57	44.81	74.00	29.19	
	1375.000	48.17	26.62	5.57	37.31	43.05	74.00	30.95	
	1490.000	48.29	26.98	5.76	37.00	44.03	74.00	29.97	
	1600.000	51.10	27.08	5.93	36.76	47.35	74.00	26.65	
	1940.000	47.98	27.36	6.35	36.27	45.42	74.00	28.58	

TEST ENGINEER: RAVEN JIN

EUT	:	LCD Monitor	Temperature :		22℃
Model No.	:	D2343PB	Humidity	:	60%RH
Serial No.	:	203NDSK4T126	Date of Test	:	Feb 22, 2012
Test Mode	:	D-Sub 1920*1080@60Hz	Adapter #2	:	ADS-40SG-19-3 19032G

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
Vertical	**32.910**	**14.01**	**16.79**	**0.82**	**--**	**31.62**	**40.00**	**8.38**	QP
	149.310	20.15	10.43	2.23	--	32.81	43.50	10.69	
	225.940	22.47	10.88	2.52	--	35.87	46.00	10.13	
	268.620	19.11	12.74	2.66	--	34.51	46.00	11.49	
	303.540	17.96	13.80	2.77	--	34.53	46.00	11.47	
	977.690	11.96	20.71	5.15	--	37.82	54.00	16.18	
	1140.000	48.10	25.51	5.32	37.90	41.03	74.00	32.97	PK
	1400.000	49.52	26.70	5.59	37.24	44.57	74.00	29.43	
	1490.000	50.44	26.98	5.76	37.00	46.18	74.00	27.82	
	1600.000	53.92	27.08	5.93	36.76	50.17	74.00	23.83	
	1840.000	48.18	27.29	6.26	36.38	45.35	74.00	28.65	
	1925.000	49.86	27.36	6.35	36.28	47.29	74.00	26.71	

TEST ENGINEER: RAVEN JIN

EUT	:	LCD Monitor	Temperature :	22℃	
Model No.	:	D2343PB	Humidity	:	60%RH
Serial No.	:	203NDSK4T126	Date of Test	:	Feb 22, 2012
Test Mode	:	D-Sub 1920*1080@60Hz	Adapter #3	:	ADS-40FSG-19 19032GPCU-1

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	198.780	21.71	9.81	2.42	--	33.94	43.50	9.56	QP
	225.940	20.67	10.88	2.52	--	34.07	46.00	11.93	
	300.630	15.96	13.73	2.76	--	32.45	46.00	13.55	
	599.390	17.27	18.20	3.47	--	38.94	46.00	7.06	
	644.980	**18.14**	**18.81**	**3.58**	**--**	**40.53**	**46.00**	**5.47**	
	994.180	18.39	20.78	5.18	--	44.35	54.00	9.65	
	1110.000	47.78	25.37	5.29	37.97	40.47	74.00	33.53	PK
	1285.000	49.20	26.26	5.47	37.55	43.38	74.00	30.62	
	1350.000	48.61	26.53	5.53	37.38	43.29	74.00	30.71	
	1490.000	48.68	26.98	5.76	37.00	44.42	74.00	29.58	
	1600.000	50.76	27.08	5.93	36.76	47.01	74.00	26.99	
	1950.000	47.13	27.37	6.38	36.25	44.63	74.00	29.37	

TEST ENGINEER: RAVEN JIN

EUT	:	LCD Monitor	Temperature :	22℃	
Model No.	:	D2343PB	Humidity	:	60%RH
Serial No.	:	203NDSK4T126	Date of Test	:	Feb 22, 2012
Test Mode	:	D-Sub 1920*1080@60Hz	Adapter #3	:	ADS-40FSG-19 19032GPCU-1

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
Vertical	**40.670**	**19.41**	**12.33**	**0.87**	**--**	**32.61**	**40.00**	**7.39**	QP
	141.550	19.89	10.59	2.18	--	32.66	43.50	10.84	
	224.970	22.93	10.84	2.52	--	36.29	46.00	9.71	
	301.600	17.85	13.77	2.76	--	34.38	46.00	11.62	
	644.010	11.69	18.78	3.55	--	34.02	46.00	11.98	
	996.120	15.71	20.78	5.21	--	41.70	54.00	12.30	
	1110.000	49.06	25.37	5.29	37.97	41.75	74.00	32.25	PK
	1290.000	49.28	26.28	5.47	37.54	43.49	74.00	30.51	
	1490.000	52.95	26.98	5.76	37.00	48.69	74.00	25.31	
	1600.000	53.25	27.08	5.93	36.76	49.50	74.00	24.50	
	1790.000	48.54	27.25	6.20	36.45	45.54	74.00	28.46	
	1925.000	52.13	27.36	6.35	36.28	49.56	74.00	24.44	

TEST ENGINEER: RAVEN JIN

EUT	:	LCD Monitor	Temperature :	22℃	
Model No.	:	D2343PB	Humidity	:	60%RH
Serial No.	:	203NDSK4T126	Date of Test	:	Feb 22, 2012
Test Mode	:	D-Sub 1920*1080@60Hz	Adapter #4	:	LCAP26A-A

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	213.330	21.21	10.33	2.47	--	34.01	43.50	9.49	QP
	300.630	15.96	13.73	2.76	--	32.45	46.00	13.55	
	479.110	12.36	17.37	3.21	--	32.94	46.00	13.06	
	528.580	15.28	17.77	3.33	--	36.38	46.00	9.62	
	572.230	16.32	18.05	3.40	--	37.77	46.00	8.23	
	644.980	**18.14**	**18.81**	**3.58**	--	**40.53**	**46.00**	**5.47**	
	1110.000	47.78	25.37	5.29	37.97	40.47	74.00	33.53	PK
	1275.000	49.31	26.21	5.47	37.57	43.42	74.00	30.58	
	1350.000	48.61	26.53	5.53	37.38	43.29	74.00	30.71	
	1490.000	48.68	26.98	5.76	37.00	44.42	74.00	29.58	
	1600.000	50.76	27.08	5.93	36.76	47.01	74.00	26.99	
	1950.000	47.13	27.37	6.38	36.25	44.63	74.00	29.37	

TEST ENGINEER: RAVEN JIN

EUT	: LCD Monitor	Temperature	:	22℃	
Model No.	: D2343PB	Humidity	:	60%RH	
Serial No.	: 203NDSK4T126	Date of Test	:	Feb 22, 2012	
Test Mode	: D-Sub 1920*1080@60Hz	Adapter #4	:	LCAP26A-A	

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
Vertical	**44.550**	**20.53**	**10.47**	**0.89**	--	**31.89**	**40.00**	**8.11**	QP
	146.400	20.30	10.49	2.20	--	32.99	43.50	10.51	
	224.970	22.93	10.84	2.52	--	36.29	46.00	9.71	
	287.050	18.86	13.35	2.72	--	34.93	46.00	11.07	
	604.240	12.29	18.26	3.47	--	34.02	46.00	11.98	
	859.350	11.49	20.42	4.45	--	36.36	46.00	9.64	
	1110.000	49.06	25.37	5.29	37.97	41.75	74.00	32.25	PK
	1290.000	49.28	26.28	5.47	37.54	43.49	74.00	30.51	
	1490.000	52.95	26.98	5.76	37.00	48.69	74.00	25.31	
	1600.000	53.25	27.08	5.93	36.76	49.50	74.00	24.50	
	1790.000	48.54	27.25	6.20	36.45	45.54	74.00	28.46	
	1925.000	52.13	27.36	6.35	36.28	49.56	74.00	24.44	

TEST ENGINEER: RAVEN JIN

5 DEVIATION TO TEST SPECIFICATIONS

None.