

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

LCD Monitor

Model No.: E2242VA

Serial No.: E12091180-01/01

FCC ID : BEJE2242VA

Prepared For : LG Electronics U.S.A., Inc.
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NJ 07632, United States

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Report No. : ACI-F12048A3
Date of Test : Oct 09 – 11, 2012
Date of Report : Oct 16, 2012

TABLE OF CONTENTS

	Page
1 SUMMARY OF STANDARDS AND RESULTS.....	4
1.1 Description of Standards and Results.....	4
2 GENERAL INFORMATION.....	5
2.1 Description of Equipment Under Test.....	5
2.2 Peripherals.....	7
2.3 Description of Test Facility.....	8
2.4 Measurement Uncertainty.....	8
3 CONDUCTED EMISSION TEST.....	9
3.1 Test Equipment.....	9
3.2 Block Diagram of Test Setup.....	9
3.3 Conducted Emission Limit [FCC Part 15 Subpart B 15.107(a)].....	10
3.4 Test Configuration.....	10
3.5 Operating Condition of EUT.....	11
3.6 Test Procedures.....	12
3.7 Test Results.....	12
4 RADIATED EMISSION TEST.....	22
4.1 Test Equipment.....	22
4.2 Block Diagram of Test Setup.....	22
4.3 Radiated Emission Limit [FCC Part 15 Subpart B 15.109(a)].....	24
4.4 Test Configuration.....	24
4.5 Operating Condition of EUT.....	24
4.6 Test Procedures.....	25
4.7 Test Results.....	26
5 DEVIATION TO TEST SPECIFICATIONS.....	37

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. : E2242VA
(B) Serial No. : E12091180-01/01
(C) Power Supply : 120V/60Hz

Test Procedure Used:

*FCC RULES AND REGULATIONS PART 15 SUBPART B CLASS B OCTOBER 2011
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: E2242VA; S/N: E12091180-01/01) which was tested in 3m anechoic chamber Oct 09 – 11, 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 : Oct 09 – 11, 2012 Date of Report : Oct 16, 2012

Producer : Kathy Wang
KATHY WANG / 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 2011 AND ANSI C63.4-2003	15.107(a) Class B	Pass
Radiated Disturbance	FCC RULES AND REGULATIONS PART 15 SUBPART B OCTOBER 2011 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. : E2242VA

Serial No. : E12091180-01/01

Note #1 : The different list for all the models are as follows:

Report No.	Model No.	Rev. Summary	Edition No.	Data of Rev.
ACI-F12048	E2242VA	Original Report	0	Mar 27, 2012
ACI-F12048A1	E2242VA	To add a new Panel.	Rev. A1	May 22, 2012
ACI-F12048A2	E2242VA	1.To add a new Panel. 2.To add two new adapters.	Rev. A2	Aug 22, 2012
ACI-F12048A3	E2242VA	To add a new Panel.	Rev. A3	Oct 16, 2012

Adapter :

Manufacturer : HONOR M/N : ADS-40SG-19-3 19025G	Manufacturer : HONOR M/N : ADS-40FSG-19 19025G***-1
Manufacturer : LIEN CHANG M/N : LCAP21	Manufacturer : LG M/N : PSAB-L203A
Manufacturer : LIEN CHANG M/N : LCAP26-*	Manufacturer : LG M/N : PSAB-L202*

Note #2 : We evaluated and selected the Adapter #1, Adapter #2 and Adapter #3 to test and record in the report.

AC Adapter #1 : Manufacturer : LG
Model Number : PSAB-L203A
Input : 100-240V~, 50/60Hz 1.1A
Output : 19V  1.3A
Output Cable : Unshielded, Undetachable, 1.8m, with one core

AC Adapter #2 : Manufacturer : LIEN CHANG
Model Number : LCAP26-*(* can be A, E, I, B, LCAP26-A was selected as the test model.)
Input : 100-240V~, 50-60Hz 1.1A
Output : 19V  1.3A
Output Cable : Unshielded, Undetachable, 1.8m

AC Adapter #3 : Manufacturer : HONOR
Model Number : ADS-40SG-19-3 19025G
Input : 100-240V~, 50-60Hz 1.0A
Output : 19V  1.3A
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 :

Original Panel	New Panel
Manufacturer : AU Optronics M/N : M215HW03	Manufacturer : LG Electronics Inc. M/N : LGM215AP11
Manufacturer : LG Display M/N : LM215WF4	--
Manufacturer : BOE M/N : HT215F01-100	--

Max Resolution : 1920*1080@60Hz

D-Sub Cable #1 : Shielded, Detachable, 1.50m, with two cores on cable

D-Sub Cable #2 : Shielded, Detachable, 1.85m, with two cores in connector

DVI Cable #1 : Shielded, Detachable, 1.50m, with two cores on cable

DVI Cable #2 : Shielded, Detachable, 1.85m, with two cores in connector

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 : Sept. 17, 1998 file on
(Semi-Anechoic Chamber) 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 = 3.42 dB

Radiated Emission Expanded Uncertainty (30-200MHz):
U = 4.14 dB (Horizontal)
U = 4.28 dB (Vertical)

Radiated Emission Expanded Uncertainty (200M-1GHz):
U = 4.18 dB (Horizontal)
U = 4.26 dB (Vertical)

Radiated Emission Expanded Uncertainty (Above 1GHz):
U= 4.50 dB (Horizontal)
U= 4.16 dB (Vertical)

3 CONDUCTED EMISSION TEST

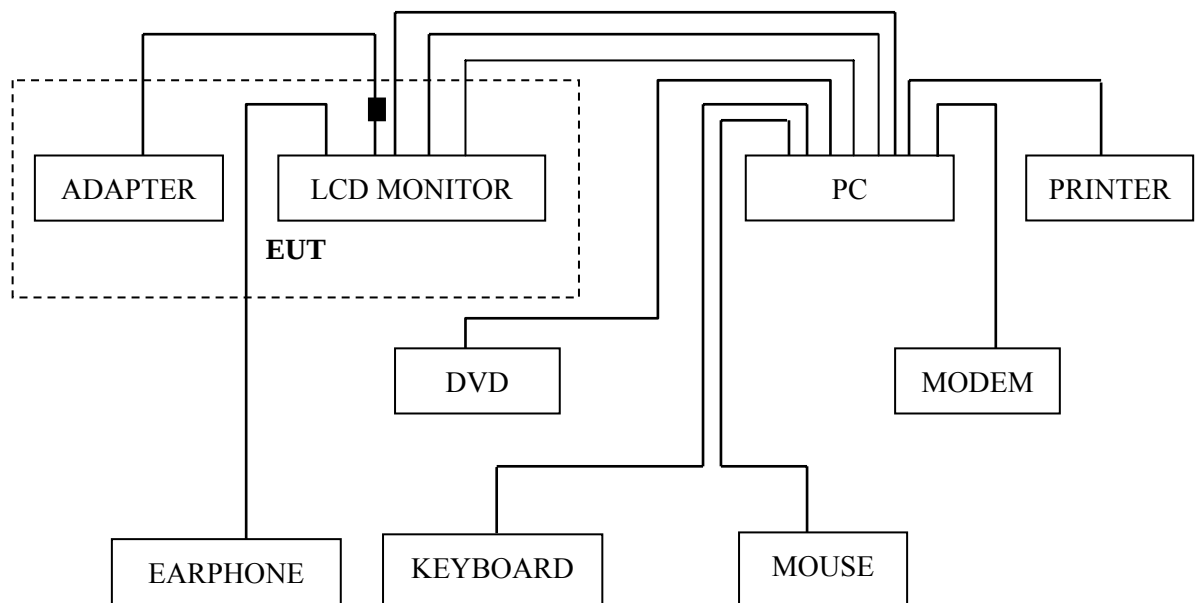
3.1 Test Equipment

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	Feb 13, 2012	Feb 13, 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	Sep 18, 2012	Mar 18, 2013
5.	50 Ω Terminator	Anritsu	BNC	001	Mar 22, 2012	Mar 22, 2013
6.	Software	Audix	E3	SET00200 9804M592	--	--

3.2 Block Diagram of Test Setup

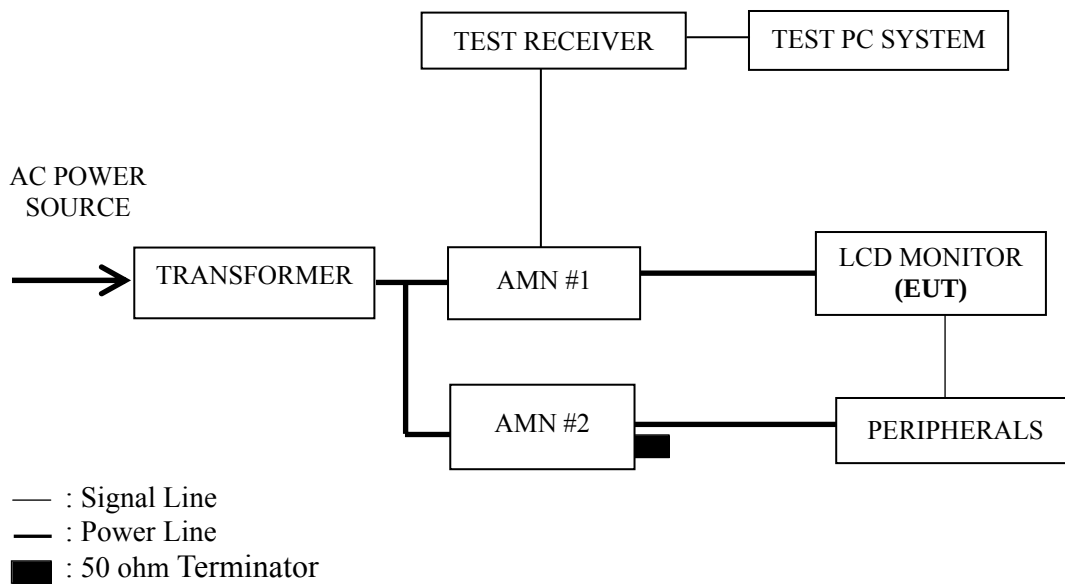
3.2.1 EUT & Peripherals



■ : 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
	D-Sub 1680*1050@60Hz
	D-Sub 1280*1024@75Hz
	D-Sub 640*480@60Hz
Adapter #2	D-Sub 1920*1080@60Hz
Adapter #3	D-Sub 1920*1080@60Hz

NOTE: We tested the EUT with adapter #1, then selected the worst test mode to perform test with other adapters.

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
	D-Sub 1680*1050@60Hz	P17
	D-Sub 1280*1024@75Hz	P18
	D-Sub 640*480@60Hz	P19
Adapter #2	D-Sub 1920*1080@60Hz	P20
Adapter #3	D-Sub 1920*1080@60Hz	P21

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 1920*1080@60Hz test mode (Adapter #2). The worst emission is detected at 0.150 MHz (Average Value) with corrected signal level of 45.33 dB (μV) (limit is 56.00 dB (μV)), when the Line of the EUT is connected to AMN.

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242VA Humidity : 48%RH

Serial No. : E12091180-01/01 Date of Test : Oct 09, 2012

Test Mode : D-Sub 1920*1080@60Hz Adapter #1 : PSAB-L203A

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.188	48.78	0.25	49.03	64.11	15.08	QP
	0.249	39.18	0.25	39.43	61.78	22.35	
	0.413	37.48	0.34	37.82	57.59	19.77	
	0.627	34.09	0.21	34.30	56.00	21.70	
	3.603	28.25	0.47	28.72	56.00	27.28	
	15.388	47.07	0.84	47.91	60.00	12.09	
	0.188	38.80	0.25	39.05	54.11	15.06	AV
	0.249	29.50	0.25	29.75	51.78	22.03	
	0.413	27.50	0.34	27.84	47.59	19.75	
	0.627	25.31	0.21	25.52	46.00	20.48	
	3.603	19.10	0.47	19.57	46.00	26.43	
	15.388	38.10	0.84	38.94	50.00	11.06	
Neutral	0.186	49.49	0.12	49.61	64.20	14.59	QP
	0.252	39.99	0.11	40.10	61.69	21.59	
	0.413	38.55	0.17	38.72	57.59	18.87	
	0.627	35.14	0.19	35.33	56.00	20.67	
	3.603	29.26	0.36	29.62	56.00	26.38	
	15.388	46.92	0.73	47.65	60.00	12.35	
	0.186	39.20	0.12	39.32	54.20	14.88	AV
	0.252	29.41	0.11	29.52	51.69	22.17	
	0.413	28.69	0.17	28.86	47.59	18.73	
	0.627	25.50	0.19	25.69	46.00	20.31	
	3.603	19.80	0.36	20.16	46.00	25.84	
	15.388	36.80	0.73	37.53	50.00	12.47	

TEST ENGINEER: SAWEN LI

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242VA Humidity : 48%RH

Serial No. : E12091180-01/01 Date of Test : Oct 09, 2012

Test Mode : DVI 1920*1080@60Hz Adapter #1 : PSAB-L203A

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.188	45.71	0.25	45.96	64.11	18.15	QP
	0.252	35.23	0.25	35.48	61.69	26.21	
	0.375	33.16	0.33	33.49	58.39	24.90	
	0.634	31.20	0.21	31.41	56.00	24.59	
	3.720	26.09	0.48	26.57	56.00	29.43	
	15.388	42.09	0.84	42.93	60.00	17.07	
	0.188	35.40	0.25	35.65	54.11	18.46	AV
	0.252	25.10	0.25	25.35	51.69	26.34	
	0.375	23.19	0.33	23.52	48.39	24.87	
	0.634	21.20	0.21	21.41	46.00	24.59	
	3.720	16.30	0.48	16.78	46.00	29.22	
	15.388	32.80	0.84	33.64	50.00	16.36	
Neutral	0.190	45.24	0.12	45.36	64.02	18.66	QP
	0.253	35.99	0.11	36.10	61.64	25.54	
	0.413	34.49	0.17	34.66	57.59	22.93	
	0.627	31.04	0.19	31.23	56.00	24.77	
	3.584	28.38	0.36	28.74	56.00	27.26	
	15.226	44.18	0.73	44.91	60.00	15.09	
	0.190	35.90	0.12	36.02	54.02	18.00	AV
	0.253	25.21	0.11	25.32	51.64	26.32	
	0.413	24.79	0.17	24.96	47.59	22.63	
	0.627	21.90	0.19	22.09	46.00	23.91	
	3.584	18.10	0.36	18.46	46.00	27.54	
	15.226	34.80	0.73	35.53	50.00	14.47	

TEST ENGINEER: SAWEN LI

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242VA Humidity : 48%RH

Serial No. : E12091180-01/01 Date of Test : Oct 09, 2012

Test Mode : HDMI 1920*1080@60Hz Adapter #1 : PSAB-L203A

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.190	42.58	0.25	42.83	64.02	21.19	QP
	0.249	33.38	0.25	33.63	61.78	28.15	
	0.413	31.25	0.34	31.59	57.59	26.00	
	0.627	29.99	0.21	30.20	56.00	25.80	
	3.603	23.25	0.47	23.72	56.00	32.28	
	15.307	43.29	0.84	44.13	60.00	15.87	
	0.190	33.60	0.25	33.85	54.02	20.17	AV
	0.249	24.10	0.25	24.35	51.78	27.43	
	0.413	22.70	0.34	23.04	47.59	24.55	
	0.627	20.71	0.21	20.92	46.00	25.08	
	3.603	17.60	0.47	18.07	46.00	27.93	
	15.307	34.80	0.84	35.64	50.00	14.36	
Neutral	0.188	45.39	0.12	45.51	64.11	18.60	QP
	0.253	35.93	0.11	36.04	61.64	25.60	
	0.408	36.15	0.16	36.31	57.68	21.37	
	0.634	33.15	0.19	33.34	56.00	22.66	
	3.584	25.93	0.36	26.29	56.00	29.71	
	15.552	43.22	0.73	43.95	60.00	16.05	
	0.188	36.40	0.12	36.52	54.11	17.59	AV
	0.253	26.21	0.11	26.32	51.64	25.32	
	0.408	27.10	0.16	27.26	47.68	20.42	
	0.634	24.45	0.19	24.64	46.00	21.36	
	3.584	20.50	0.36	20.86	46.00	25.14	
	15.552	34.70	0.73	35.43	50.00	14.57	

TEST ENGINEER: SAWEN LI

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242VA Humidity : 48%RH

Serial No. : E12091180-01/01 Date of Test : Oct 09, 2012

Test Mode : HDMI 1080P Adapter #1 : PSAB-L203A

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.186	42.75	0.25	43.00	64.20	21.20	QP
	0.249	33.33	0.25	33.58	61.78	28.20	
	0.410	34.17	0.34	34.51	57.64	23.13	
	0.641	31.11	0.21	31.32	56.00	24.68	
	3.603	27.30	0.47	27.77	56.00	28.23	
	14.672	42.96	0.84	43.80	60.00	16.20	
	0.186	33.50	0.25	33.75	54.20	20.45	AV
	0.249	24.40	0.25	24.65	51.78	27.13	
	0.410	25.70	0.34	26.04	47.64	21.60	
	0.641	22.20	0.21	22.41	46.00	23.59	
	3.603	18.10	0.47	18.57	46.00	27.43	
	14.672	33.20	0.84	34.04	50.00	15.96	
Neutral	0.188	45.09	0.12	45.21	64.11	18.90	QP
	0.252	36.45	0.11	36.56	61.69	25.13	
	0.546	34.94	0.17	35.11	56.00	20.89	
	0.627	33.26	0.19	33.45	56.00	22.55	
	3.603	28.33	0.36	28.69	56.00	27.31	
	15.388	43.78	0.73	44.51	60.00	15.49	
	0.188	36.30	0.12	36.42	54.11	17.69	AV
	0.252	27.31	0.11	27.42	51.69	24.27	
	0.546	25.90	0.17	26.07	46.00	19.93	
	0.627	24.70	0.19	24.89	46.00	21.11	
	3.603	19.40	0.36	19.76	46.00	26.24	
	15.388	34.30	0.73	35.03	50.00	14.97	

TEST ENGINEER: SAWEN LI

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242VA Humidity : 48%RH

Serial No. : E12091180-01/01 Date of Test : Oct 09, 2012

Test Mode : D-Sub 1680*1050@60Hz Adapter #1 : PSAB-L203A

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.186	48.79	0.25	49.04	64.20	15.16	QP
	0.252	39.22	0.25	39.47	61.69	22.22	
	0.413	37.41	0.34	37.75	57.59	19.84	
	0.634	34.19	0.21	34.40	56.00	21.60	
	3.603	27.72	0.47	28.19	56.00	27.81	
	14.986	45.82	0.84	46.66	60.00	13.34	
	0.186	39.60	0.25	39.85	54.20	14.35	AV
	0.252	30.50	0.25	30.75	51.69	20.94	
	0.413	28.60	0.34	28.94	47.59	18.65	
	0.634	25.10	0.21	25.31	46.00	20.69	
	3.603	18.50	0.47	18.97	46.00	27.03	
	14.986	36.20	0.84	37.04	50.00	12.96	
Neutral	0.188	49.00	0.12	49.12	64.11	14.99	QP
	0.249	39.98	0.11	40.09	61.78	21.69	
	0.413	38.53	0.17	38.70	57.59	18.89	
	0.634	35.18	0.19	35.37	56.00	20.63	
	3.759	27.96	0.38	28.34	56.00	27.66	
	15.146	46.22	0.73	46.95	60.00	13.05	
	0.188	39.60	0.12	39.72	54.11	14.39	AV
	0.249	30.61	0.11	30.72	51.78	21.06	
	0.413	29.19	0.17	29.36	47.59	18.23	
	0.634	26.90	0.19	27.09	46.00	18.91	
	3.759	18.30	0.38	18.68	46.00	27.32	
	15.146	37.80	0.73	38.53	50.00	11.47	

TEST ENGINEER: SAWEN LI

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242VA Humidity : 48%RH

Serial No. : E12091180-01/01 Date of Test : Oct 09, 2012

Test Mode : D-Sub 1280*1024@75Hz Adapter #1 : PSAB-L203A

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.188	48.81	0.25	49.06	64.11	15.05	QP
	0.252	39.17	0.25	39.42	61.69	22.27	
	0.375	37.19	0.33	37.52	58.39	20.87	
	0.634	34.06	0.21	34.27	56.00	21.73	
	3.681	26.91	0.48	27.39	56.00	28.61	
	14.828	46.02	0.84	46.86	60.00	13.14	
	0.188	39.74	0.25	39.99	54.11	14.12	AV
	0.252	30.50	0.25	30.75	51.69	20.94	
	0.375	28.79	0.33	29.12	48.39	19.27	
	0.634	25.50	0.21	25.71	46.00	20.29	
	3.681	17.09	0.48	17.57	46.00	28.43	
	14.828	37.60	0.84	38.44	50.00	11.56	
Neutral	0.188	49.40	0.12	49.52	64.11	14.59	QP
	0.252	40.15	0.11	40.26	61.69	21.43	
	0.375	38.29	0.15	38.44	58.39	19.95	
	0.627	35.20	0.19	35.39	56.00	20.61	
	3.603	28.33	0.36	28.69	56.00	27.31	
	15.226	46.50	0.73	47.23	60.00	12.77	
	0.188	40.30	0.12	40.42	54.11	13.69	AV
	0.252	30.31	0.11	30.42	51.69	21.27	
	0.375	29.10	0.15	29.25	48.39	19.14	
	0.627	26.20	0.19	26.39	46.00	19.61	
	3.603	19.10	0.36	19.46	46.00	26.54	
	15.226	37.90	0.73	38.63	50.00	11.37	

TEST ENGINEER: SAWEN LI

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242VA Humidity : 48%RH

Serial No. : E12091180-01/01 Date of Test : Oct 09, 2012

Test Mode : D-Sub 640*480@60Hz Adapter #1 : PSAB-L203A

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.186	48.73	0.25	48.98	64.20	15.22	QP
	0.249	39.32	0.25	39.57	61.78	22.21	
	0.413	37.42	0.34	37.76	57.59	19.83	
	0.627	34.31	0.21	34.52	56.00	21.48	
	3.603	28.28	0.47	28.75	56.00	27.25	
	14.828	46.59	0.84	47.43	60.00	12.57	
	0.186	39.10	0.25	39.35	54.20	14.85	AV
	0.249	30.50	0.25	30.75	51.78	21.03	
	0.413	28.12	0.34	28.46	47.59	19.13	
	0.627	25.71	0.21	25.92	46.00	20.08	
	3.603	19.80	0.47	20.27	46.00	25.73	
	14.828	36.20	0.84	37.04	50.00	12.96	
Neutral	0.188	49.48	0.12	49.60	64.11	14.51	QP
	0.249	40.19	0.11	40.30	61.78	21.48	
	0.375	38.20	0.15	38.35	58.39	20.04	
	0.634	35.10	0.19	35.29	56.00	20.71	
	3.720	28.24	0.38	28.62	56.00	27.38	
	15.388	46.48	0.73	47.21	60.00	12.79	
	0.188	40.30	0.12	40.42	54.11	13.69	AV
	0.249	31.51	0.11	31.62	51.78	20.16	
	0.375	29.50	0.15	29.65	48.39	18.74	
	0.634	26.50	0.19	26.69	46.00	19.31	
	3.720	19.80	0.38	20.18	46.00	25.82	
	15.388	37.20	0.73	37.93	50.00	12.07	

TEST ENGINEER: SAWEN LI

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242VA Humidity : 48%RH

Serial No. : E12091180-01/01 Date of Test : Oct 09, 2012

Test Mode : D-Sub1920*1080@60Hz Adapter #2 : LCAP26-A

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.150	54.17	0.23	54.40	66.00	11.60	QP
	0.237	42.53	0.25	42.78	62.22	19.44	
	0.283	38.87	0.26	39.13	60.72	21.59	
	0.720	30.08	0.20	30.28	56.00	25.72	
	4.224	33.54	0.49	34.03	56.00	21.97	
	14.986	27.91	0.84	28.75	60.00	31.25	
	0.150	45.10	0.23	45.33	56.00	10.67	AV
	0.237	33.50	0.25	33.75	52.22	18.47	
	0.283	29.10	0.26	29.36	50.72	21.36	
	0.720	20.50	0.20	20.70	46.00	25.30	
	4.224	24.10	0.49	24.59	46.00	21.41	
	14.986	18.90	0.84	19.74	50.00	30.26	
Neutral	0.150	53.05	0.13	53.18	66.00	12.82	QP
	0.234	42.08	0.11	42.19	62.30	20.11	
	0.283	38.15	0.12	38.27	60.72	22.45	
	2.033	29.93	0.17	30.10	56.00	25.90	
	4.027	33.36	0.40	33.76	56.00	22.24	
	15.226	29.20	0.73	29.93	60.00	30.07	
	0.150	44.30	0.13	44.43	56.00	11.57	AV
	0.234	33.60	0.11	33.71	52.30	18.59	
	0.283	29.30	0.12	29.42	50.72	21.30	
	2.033	20.30	0.17	20.47	46.00	25.53	
	4.027	24.19	0.40	24.59	46.00	21.41	
	15.226	20.30	0.73	21.03	50.00	28.97	

TEST ENGINEER: SAWEN LI

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242VA Humidity : 48%RH

Serial No. : E12091180-01/01 Date of Test : Oct 09, 2012

Test Mode : D-Sub1920*1080@60Hz Adapter #3 : ADS-40SG-19-3
19025G

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.150	52.69	0.23	52.92	66.00	13.08	QP
	0.249	35.47	0.25	35.72	61.78	26.06	
	0.431	38.53	0.35	38.88	57.24	18.36	
	0.592	34.51	0.26	34.77	56.00	21.23	
	0.592	25.41	0.26	25.67	56.00	30.33	
	5.005	33.76	0.50	34.26	60.00	25.74	
	21.600	31.37	0.99	32.36	60.00	27.64	AV
	21.600	22.79	0.99	23.78	60.00	36.22	
	0.150	43.70	0.23	43.93	56.00	12.07	
	0.249	25.50	0.25	25.75	51.78	26.03	
	0.431	29.29	0.35	29.64	47.24	17.60	
	5.005	24.40	0.50	24.90	50.00	25.10	
Neutral	0.150	52.62	0.13	52.75	66.00	13.25	QP
	0.249	35.57	0.11	35.68	61.78	26.10	
	0.444	39.14	0.17	39.31	56.98	17.67	
	0.592	35.28	0.18	35.46	56.00	20.54	
	5.005	33.67	0.42	34.09	60.00	25.91	
	21.600	31.00	0.88	31.88	60.00	28.12	
	0.150	43.10	0.13	43.23	56.00	12.77	AV
	0.249	26.71	0.11	26.82	51.78	24.96	
	0.444	30.70	0.17	30.87	46.98	16.11	
	0.592	26.20	0.18	26.38	46.00	19.62	
	5.005	24.40	0.42	24.82	50.00	25.18	
	21.600	20.00	0.88	20.88	50.00	29.12	

TEST ENGINEER: SAWEN LI

4 RADIATED EMISSION TEST

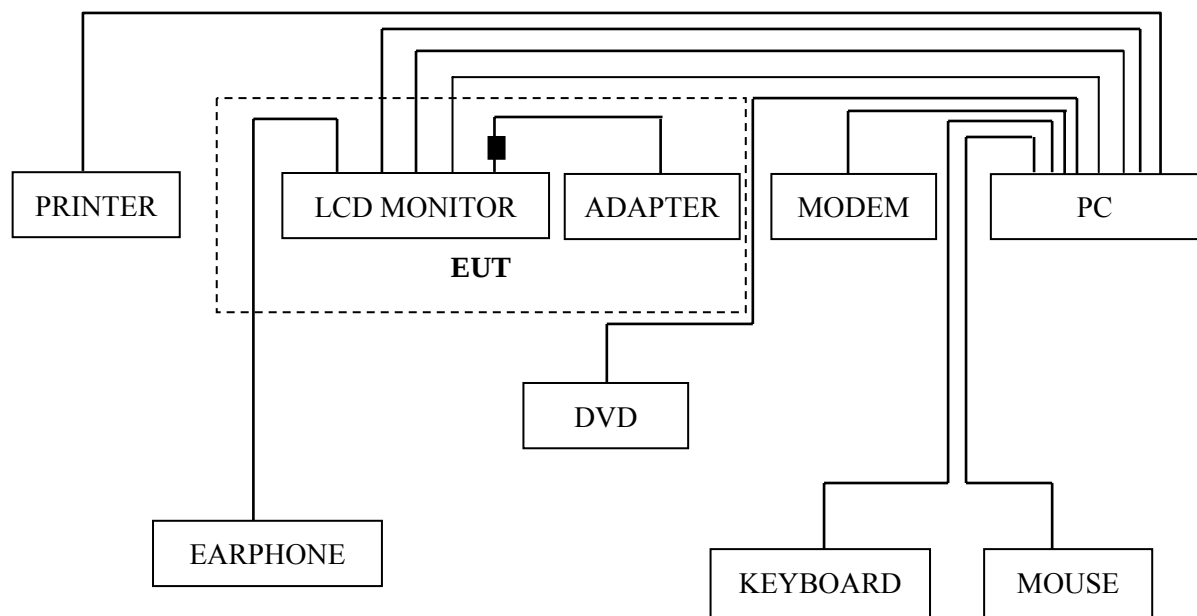
4.1 Test Equipment

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 03, 2012	May 03, 2013
6.	Spectrum	Agilent	E7405A	MY45106600	Mar 22, 2012	Mar 22, 2013
7.	50 Ω Coaxial Switch	Anritsu	MP59B	6200426390	Sep 18, 2012	Mar 18, 2013
8.	Software	Audix	E3	SET00200 9912M295-2	--	--

4.2 Block Diagram of Test Setup

4.2.1 EUT and Peripherals

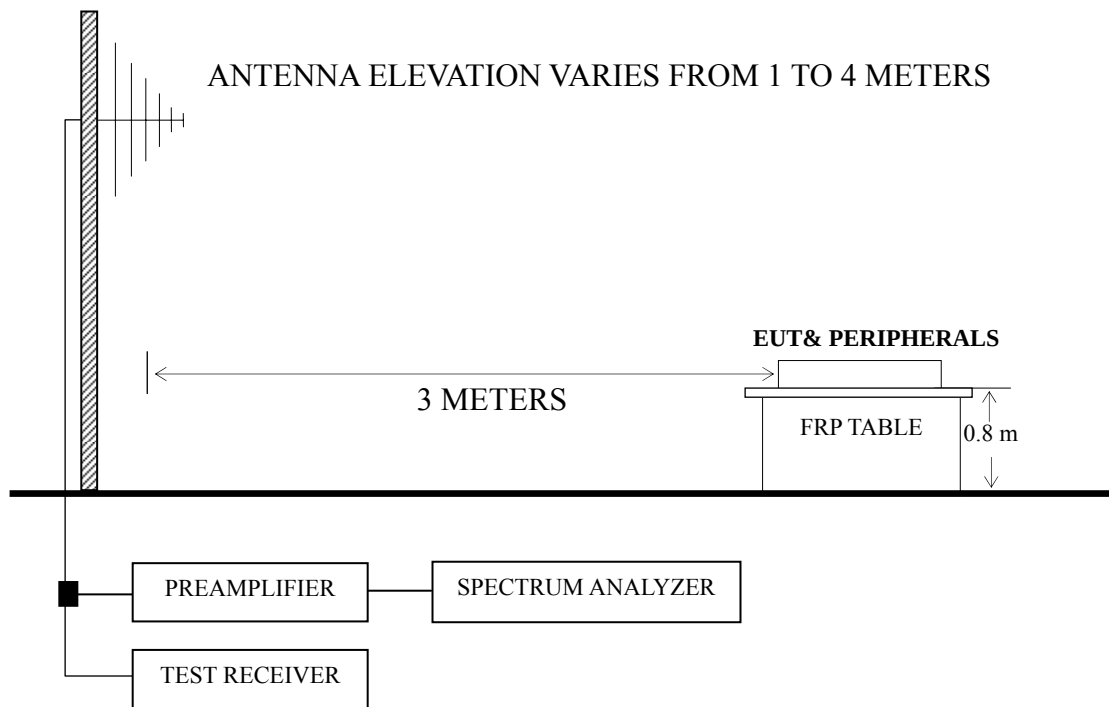


■ : Ferrite core

Note: Ferrite core only for Adapter #1

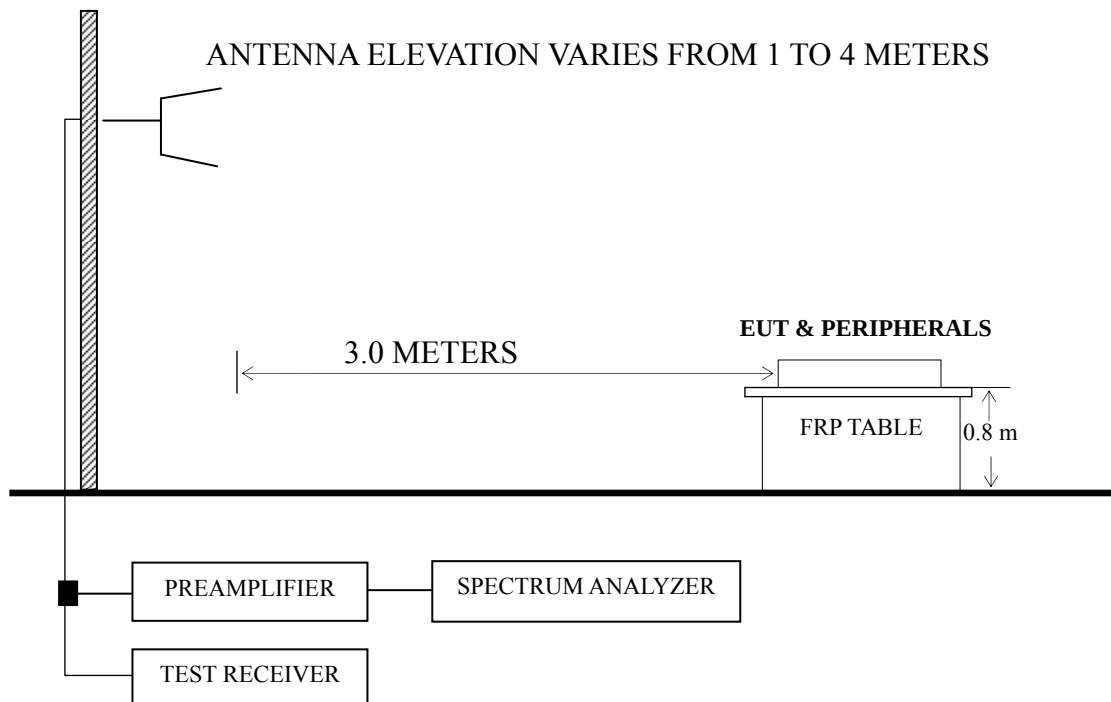
4.2.2 Radiated emission test setup

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	
		($\mu\text{V/m}$)	dB ($\mu\text{V/m}$)
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
Above 960	3	500	54.0
NOTE 1 - Emission Level dB ($\mu\text{V/m}$) = 20 log Emission Level ($\mu\text{V/m}$) NOTE 2 - The tighter limit applies at the band edges. NOTE 3 - Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system. NOTE 4 - The limits shown are based on Quasi-peak value detector below or equal to 1GHz 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 emission test modes in 30-1000MHz.

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 #2	D-Sub 1920*1080@60Hz	P27
	DVI 1920*1080@60Hz	P28
	HDMI 1920*1080@60Hz	P29
	HDMI 1080P	P30
	DVI 1680*1050@60Hz	P31
	DVI 1280*1024@75Hz	P32 – P33
	DVI 640*480@60Hz	P34
Adapter #1	DVI 1280*1024@75Hz	P35
Adapter #3	DVI 1280*1024@75Hz	P36

NOTE 1 – **The bold test mode** listed above means the worst test mode.

NOTE 2 – Emission Level = Antenna Factor + Cable Loss + Meter Reading.($< 1\text{GHz}$)

NOTE 3 – Emission Level = Antenna Factor + Cable Loss – Preamp Factor + Meter Reading.($> 1\text{GHz}$)

NOTE 4 – All readings are Quasi-Peak values below or equal to 1GHz, Peak and average values above 1GHz

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 – The worst case is for DVI 1280*1024@75Hz test mode. The worst emission at horizontal polarization was detected at 405.390 MHz with corrected signal level of 39.19 dB ($\mu\text{V/m}$) (limit is 46.00 dB ($\mu\text{V/m}$)), when the antenna was 1.00 m height and the turntable was at 213° . The worst emission at vertical polarization was detected at 541.190 MHz with corrected signal level of 44.51 dB ($\mu\text{V/m}$) (limit is 46.00 dB ($\mu\text{V/m}$)), when the antenna was 1.00 m height and the turntable was at 158° .

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242VA Humidity : 60%RH

Serial No. : E12091180-01/01 Date of Test : Oct 11, 2012

Test Mode : D-Sub 1920*1080@60Hz Adapter #2 : LCAP26-A

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	136.700	21.75	10.74	1.58	34.07	43.50	9.43
	198.780	26.51	8.20	1.94	36.65	43.50	6.85
	309.360	18.39	13.30	2.56	34.25	46.00	11.75
	352.040	15.48	14.83	2.63	32.94	46.00	13.06
	397.630	15.64	15.93	2.68	34.25	46.00	11.75
	769.140	10.58	18.30	3.60	32.48	46.00	13.52
Vertical	72.680	19.51	6.20	0.97	26.68	40.00	13.32
	99.840	20.54	10.32	1.34	32.20	43.50	11.30
	135.730	22.45	10.91	1.57	34.93	43.50	8.57
	198.000	30.10	8.20	1.94	40.24	43.50	3.26
	342.340	23.73	14.80	2.61	41.14	46.00	4.86
	397.630	21.06	15.93	2.68	39.67	46.00	6.33

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242VA Humidity : 60%RH

Serial No. : E12091180-01/01 Date of Test : Oct 11, 2012

Test Mode : DVI 1920*1080@60Hz Adapter #2 : LCAP26-A

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	82.380	15.72	7.10	1.11	23.93	40.00	16.07
	148.500	26.80	10.15	1.63	38.58	43.50	4.92
	213.330	21.71	7.60	2.01	31.32	43.50	12.18
	358.830	14.53	14.98	2.63	32.14	46.00	13.86
	446.130	17.21	17.07	2.82	37.10	46.00	8.90
	647.890	10.08	18.40	3.38	31.86	46.00	14.14
Vertical	31.940	12.72	16.50	0.68	29.90	40.00	10.10
	36.790	12.57	14.92	0.74	28.23	40.00	11.77
	140.580	23.16	10.30	1.60	35.06	43.50	8.44
	216.240	24.86	7.72	2.03	34.61	46.00	11.39
	334.580	20.22	14.60	2.60	37.42	46.00	8.58
	445.490	23.20	17.15	2.82	43.17	46.00	2.83

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242VA Humidity : 60%RH

Serial No. : E12091180-01/01 Date of Test : Oct 11, 2012

Test Mode : HDMI 1920*1080@60Hz Adapter #2 : LCAP26-A

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)
Horizontal	30.970	3.29	17.65	0.67	21.61	40.00	18.39
	135.730	21.14	10.91	1.57	33.62	43.50	9.88
	216.240	20.92	7.72	2.03	30.67	46.00	15.33
	298.690	15.05	12.52	2.52	30.09	46.00	15.91
	446.130	15.40	17.07	2.82	35.29	46.00	10.71
	594.540	15.91	18.50	3.20	37.61	46.00	8.39
Vertical	30.970	12.61	17.65	0.67	30.93	40.00	9.07
	36.790	14.46	14.92	0.74	30.12	40.00	9.88
	134.760	20.63	11.00	1.57	33.20	43.50	10.30
	217.210	24.29	7.83	2.04	34.16	46.00	11.84
	352.040	20.88	14.83	2.63	38.34	46.00	7.66
	447.100	20.06	17.07	2.82	39.95	46.00	6.05

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242VA Humidity : 60%RH

Serial No. : E12091180-01/01 Date of Test : Oct 11, 2012

Test Mode : HDMI 1080P Adapter #2 : LCAP26-A

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)
Horizontal	30.970	3.41	17.65	0.67	21.73	40.00	18.27
	72.680	13.83	6.20	0.97	21.00	40.00	19.00
	130.880	19.64	11.72	1.55	32.91	43.50	10.59
	212.360	18.79	7.60	2.01	28.40	43.50	15.10
	352.040	14.86	14.83	2.63	32.32	46.00	13.68
	446.130	14.96	17.07	2.82	34.85	46.00	11.15
Vertical	35.820	10.46	15.63	0.73	26.82	40.00	13.18
	53.280	17.42	6.46	0.86	24.74	40.00	15.26
	144.460	20.28	10.30	1.61	32.19	43.50	11.31
	209.450	21.66	7.60	2.00	31.26	43.50	12.24
	354.950	20.68	14.90	2.63	38.21	46.00	7.79
	641.100	8.00	18.50	3.35	29.85	46.00	16.15

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242VA Humidity : 60%RH

Serial No. : E12091180-01/01 Date of Test : Oct 11, 2012

Test Mode : DVI 1680*1050@60Hz Adapter #2 : LCAP26-A

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)
Horizontal	30.970	3.91	17.65	0.67	22.23	40.00	17.77
	72.680	17.54	6.20	0.97	24.71	40.00	15.29
	133.790	22.25	11.22	1.56	35.03	43.50	8.47
	216.240	21.54	7.72	2.03	31.29	46.00	14.71
	339.430	14.03	14.80	2.61	31.44	46.00	14.56
	541.190	17.89	19.48	3.06	40.43	46.00	5.57
Vertical	31.940	12.27	16.50	0.68	29.45	40.00	10.55
	43.580	15.66	10.60	0.80	27.06	40.00	12.94
	71.710	23.57	6.02	0.95	30.54	40.00	9.46
	138.640	22.39	10.51	1.59	34.49	43.50	9.01
	214.300	24.76	7.60	2.03	34.39	43.50	9.11
	541.190	19.97	19.48	3.06	42.51	46.00	3.49

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242VA Humidity : 60%RH

Serial No. : E12091180-01/01 Date of Test : Oct 11, 2012

Test Mode : DVI 1280*1024@75Hz Adapter #2 : LCAP26-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	30.970	3.92	17.65	0.67	--	22.24	40.00	17.76	QP
	72.680	11.22	6.20	0.97	--	18.39	40.00	21.61	
	133.790	21.31	11.22	1.56	--	34.09	43.50	9.41	
	179.380	20.55	8.22	1.83	--	30.60	43.50	12.90	
	268.620	17.52	12.67	2.32	--	32.51	46.00	13.49	
	405.390	20.23	16.25	2.71	--	39.19	46.00	6.81	
	1087.000	49.88	24.03	4.99	38.00	40.90	74.00	33.10	PK
	1162.000	51.13	24.35	5.07	37.83	42.72	74.00	31.28	
	1294.000	52.87	24.96	5.39	37.50	45.72	74.00	28.28	
	1502.000	50.79	25.64	5.64	36.90	45.17	74.00	28.83	
	1604.000	50.43	26.71	5.66	36.67	46.13	74.00	27.87	
	1797.000	50.84	29.11	6.15	36.35	49.75	74.00	24.25	
	1087.000	25.99	24.03	4.99	38.00	17.01	54.00	36.99	AV
	1162.000	26.79	24.35	5.07	37.83	18.38	54.00	35.62	
	1294.000	28.63	24.96	5.39	37.50	21.48	54.00	32.52	
	1502.000	28.42	25.64	5.64	36.90	22.80	54.00	31.20	
	1604.000	27.68	26.71	5.66	36.67	23.38	54.00	30.62	
	1797.000	26.59	29.11	6.15	36.35	25.50	54.00	28.50	

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242VA Humidity : 60%RH

Serial No. : E12091180-01/01 Date of Test : Oct 11, 2012

Test Mode : DVI 1280*1024@75Hz Adapter #2 : LCAP26-A

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Vertical	30.970	11.88	17.65	0.67	--	30.20	40.00	9.80	QP
	53.280	18.71	6.46	0.86	--	26.03	40.00	13.97	
	135.730	25.79	10.91	1.57	--	38.27	43.50	5.23	
	216.240	24.47	7.72	2.03	--	34.22	46.00	11.78	
	349.130	24.12	14.80	2.62	--	41.54	46.00	4.46	
	541.190	21.97	19.48	3.06	--	44.51	46.00	1.49	
	1087.000	54.89	24.03	4.99	38.00	45.91	74.00	28.09	PK
	1162.000	54.35	24.35	5.07	37.83	45.94	74.00	28.06	
	1234.000	50.63	24.70	5.20	37.65	42.88	74.00	31.12	
	1537.000	58.61	26.01	5.64	36.82	53.44	74.00	20.56	
	1687.000	51.83	27.73	5.97	36.52	49.01	74.00	24.99	
	1799.000	56.08	29.11	6.15	36.35	54.99	74.00	19.01	
	1087.000	27.42	24.03	4.99	38.00	18.44	54.00	35.56	AV
	1162.000	28.01	24.35	5.07	37.83	19.60	54.00	34.40	
	1234.000	27.59	24.70	5.20	37.65	19.84	54.00	34.16	
	1537.000	31.26	26.01	5.64	36.82	26.09	54.00	27.91	
	1687.000	28.40	27.73	5.97	36.52	25.58	54.00	28.42	
	1799.000	30.80	29.11	6.15	36.35	29.71	54.00	24.29	

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242VA Humidity : 60%RH

Serial No. : E12091180-01/01 Date of Test : Oct 11, 2012

Test Mode : DVI 640*480@60Hz Adapter #2 : LCAP26-A

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	30.000	2.36	18.80	0.65	21.81	40.00	18.19
	75.590	14.08	6.54	1.01	21.63	40.00	18.37
	135.730	23.09	10.91	1.57	35.57	43.50	7.93
	220.120	20.22	8.33	2.04	30.59	46.00	15.41
	365.620	15.06	14.90	2.64	32.60	46.00	13.40
	675.050	12.12	19.40	3.48	35.00	46.00	11.00
Vertical	31.940	12.90	16.50	0.68	30.08	40.00	9.92
	49.400	16.72	7.93	0.85	25.50	40.00	14.50
	70.740	16.44	5.89	0.94	23.27	40.00	16.73
	131.850	18.74	11.54	1.55	31.83	43.50	11.67
	219.150	22.68	8.13	2.04	32.85	46.00	13.15
	439.340	19.83	17.40	2.80	40.03	46.00	5.97

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242VA Humidity : 60%RH

Serial No. : E12091180-01/01 Date of Test : Oct 11, 2012

Test Mode : DVI 1280*1024@75Hz Adapter #1 : PSAB-L203A

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	31.940	3.34	16.50	0.68	20.52	40.00	19.48
	143.490	19.05	10.30	1.61	30.96	43.50	12.54
	182.290	23.96	8.25	1.84	34.05	43.50	9.45
	405.390	20.02	16.25	2.71	38.98	46.00	7.02
	541.190	17.05	19.48	3.06	39.59	46.00	6.41
	674.080	18.01	19.40	3.48	40.89	46.00	5.11
Vertical	30.000	10.73	18.80	0.65	30.18	40.00	9.82
	57.160	18.23	5.81	0.88	24.92	40.00	15.08
	135.730	23.60	10.91	1.57	36.08	43.50	7.42
	182.290	23.07	8.25	1.84	33.16	43.50	10.34
	405.390	21.17	16.25	2.71	40.13	46.00	5.87
	541.190	20.84	19.48	3.06	43.38	46.00	2.62

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242VA Humidity : 60%RH

Serial No. : E12091180-01/01 Date of Test : Oct 11, 2012

Test Mode : DVI 1280*1024@75Hz Adapter #3 : ADS-40SG-19-3
19025G

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	30.000	2.50	18.80	0.65	21.95	40.00	18.05
	128.940	23.10	11.82	1.53	36.45	43.50	7.05
	182.290	24.03	8.25	1.84	34.12	43.50	9.38
	269.590	13.07	12.60	2.32	27.99	46.00	18.01
	405.390	19.90	16.25	2.71	38.86	46.00	7.14
	541.190	17.20	19.48	3.06	39.74	46.00	6.26
Vertical	36.790	13.63	14.92	0.74	29.29	40.00	10.71
	56.190	19.57	6.00	0.87	26.44	40.00	13.56
	129.910	22.10	11.90	1.53	35.53	43.50	7.97
	264.740	21.20	12.90	2.30	36.40	46.00	9.60
	352.040	25.00	14.83	2.63	42.46	46.00	3.54
	541.190	19.46	19.48	3.06	42.00	46.00	4.00

TEST ENGINEER: RAVEN JIN

5 DEVIATION TO TEST SPECIFICATIONS

None.