

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

LCD Monitor

Model No.: E2242TA

Serial No.: E11121554-01/01

FCC ID : BEJE2242TA

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

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Report No. : ACI-F12002
Date of Test : Dec 20, 2011
Date of Report : Jan 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. : E2242TA
(B) Serial No. : E11121554-01/01
(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: E2242TA; S/N: E11121554-01/01) which was tested in 3m anechoic chamber Dec 20, 2011 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 20, 2011 Date of Report : Jan 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
Type of EUT	: ☒ Production ☐ Pre-product ☐ Pro-type
Model No.	: E2242TA
Serial No.	: E11121554-01/01
Real Power	: 23.00W (Adapter #1) 22.50W (Adapter #2) 22.60W (Adapter #3) 23.00W (Adapter #4)
AC Adapter #1	: Manufacturer : HONOR Model Number : ADS-40SG-19-3 19025G Input : 100-240V~, 50-60Hz 1.0A Output : 19V $\overline{\text{---}}$ 1.3A Output Cable : Unshielded, Undetachable, 1.8m
AC Adapter #2	: Manufacturer : LIEN CHANG Model Number : LCAP21 Input : 100-240V~, 50-60Hz 1.1A Output : 19V $\overline{\text{---}}$ 1.3A Output Cable : Unshielded, Undetachable, 1.8m, with one core
AC Adapter #3	: 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 $\overline{\text{---}}$ 1.3A Output Cable : Unshielded, Undetachable, 1.8m
AC Adapter #4	: Manufacturer : HONOR Model Number : ADS-40FSG-19 19025G***-1 (*** can be PG, PBR, PI, PCU, ADS-40FSG-19 19025GPCU-1 was selected as the test model.) Input : 100-240V~, 50-60Hz 1.0A Output : 19V $\overline{\text{---}}$ 1.3A Output Cable : Unshielded, Undetachable, 1.8m

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 : LM215WF4

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, 1.80m

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 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

2.3 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 = 3.38 dB

Radiated Emission Expanded Uncertainty (30-200MHz):
U = 4.58 dB (Horizontal)
U = 4.70 dB (Vertical)

Radiated Emission Expanded Uncertainty (200M-1GHz):
U = 4.84 dB (Horizontal)
U = 4.70 dB (Vertical)

Radiated Emission Expanded Uncertainty (Above 1GHz) :
U= 4.60 dB (Horizontal)
U= 4.18 dB (Vertical)

3 CONDUCTED EMISSION TEST

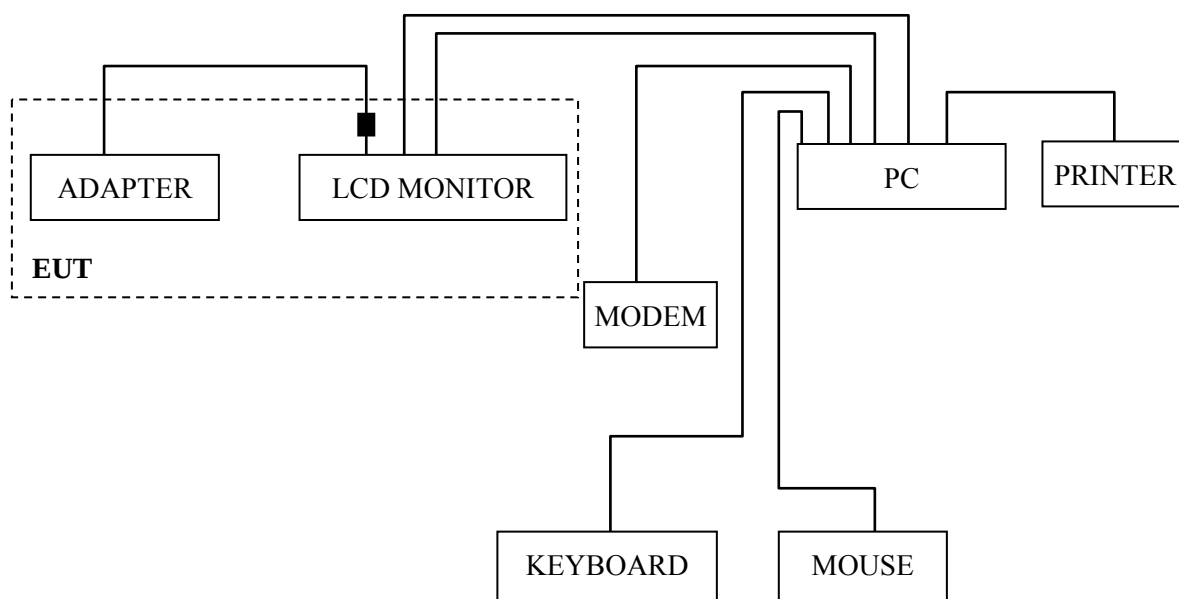
3.1 Test Equipment

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, 2011	Mar 22, 2012
2.	Artificial Mains Network (AMN)	R&S	ENV4200	100125	Mar 22, 2011	Mar 22, 2012
3.	Line Impedance Stabilization Network (LISN)	Kyoritsu	KNW-407	8-1280-4	Mar 22, 2011	Mar 22, 2012
4.	50 Ω Coaxial Switch	Anritsu	MP59B	6200426389	Sep 18, 2011	Mar 18, 2012
5.	50 Ω Terminator	Anritsu	BNC	001	Mar 22, 2011	Mar 22, 2012
6.	Software	Audix	E3	SET00200 9804M592	--	--

3.2 Block Diagram of Test Setup

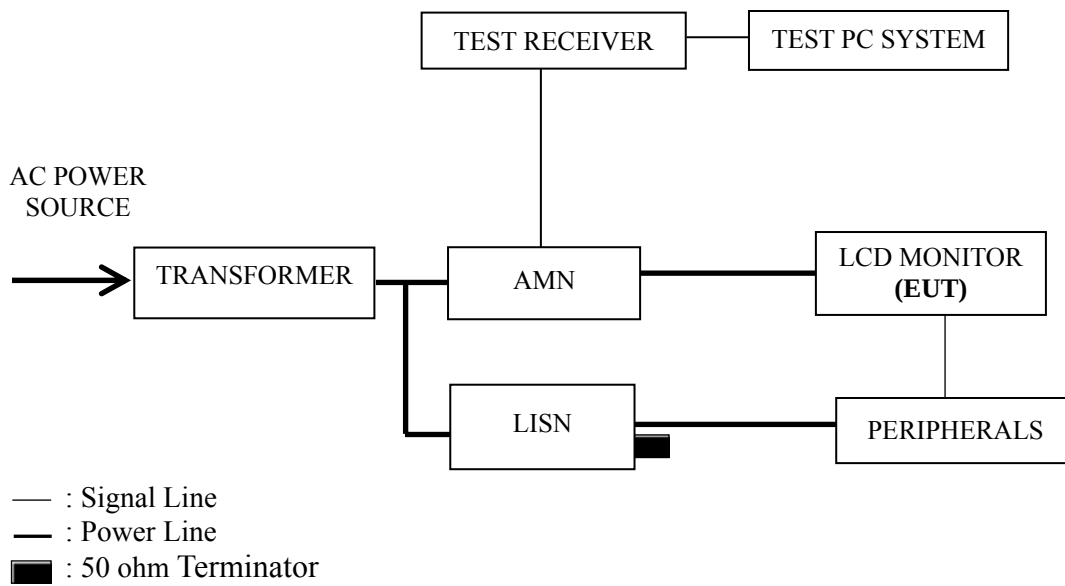
3.2.1 EUT & Peripherals



■ : Ferrite core

Note: Ferrite core only for Adapter #2

3.2.2 Conducted Disturbance Test Setup



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

Frequency Range (MHz)	Limits dB (μ V)	
	Quasi-peak	Average
0.15 ~ 0.5	66~56	56~46
0.5 ~ 5	56	46
5 ~ 30	60	50
NOTE 1 – The lower limit shall apply at the transition frequencies. NOTE 2 – The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz~0.50 MHz		

3.4 Test Configuration

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

3.5 Operating Condition of EUT

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

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

3.5.3 Set the contrast & brightness of EUT to maximum.

3.5.4 PC system ran the self-test program "EMC Test" by windows XP and sent "H" characters to EUT through graphic card (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 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:

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

Adaptor	Test Mode	Page
Adapter #1	D-Sub 640*480@60Hz	P13
	D-Sub 1280*1024@75Hz	P14
	D-Sub 1680*1050@60Hz	P15
	D-Sub 1920*1080@60Hz	P16
	DVI 640*480@60Hz	P17
	DVI 1280*1024@75Hz	P18
	DVI 1680*1050@60Hz	P19
	DVI 1920*1080@60Hz	P20
Adapter #2	D-Sub 1680*1050@60Hz	P21
Adapter #3	D-Sub 1680*1050@60Hz	P22
Adapter #4	D-Sub 1680*1050@60Hz	P23

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 (Adapter #3). The worst emission is detected at 0.155 MHz (Quasi-Peak Value) with corrected signal level of 58.45 dB (μV) (limit is 65.74 dB (μV)), when the Line of the EUT is connected to AMN.

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242TA Humidity : 48%RH

Serial No. : E11121554-01/01 Date of Test : Dec 20, 2011

Test Mode : D-Sub 640*480@60Hz Adapter #1 : 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	0.159	37.89	9.89	47.78	65.52	17.74	QP
	0.505	33.01	9.75	42.76	56.00	13.24	
	1.433	30.91	10.17	41.08	56.00	14.92	
	2.110	29.85	10.14	39.99	56.00	16.01	
	5.277	33.09	10.08	43.17	60.00	16.83	
	8.729	33.57	10.19	43.76	60.00	16.24	
	0.159	27.59	9.89	37.48	55.52	18.04	AV
	0.505	23.45	9.75	33.20	46.00	12.80	
	1.433	20.12	10.17	30.29	46.00	15.71	
	2.110	18.60	10.14	28.74	46.00	17.26	
	5.277	23.48	10.08	33.56	50.00	16.44	
	8.729	24.15	10.19	34.34	50.00	15.66	
Neutral	0.168	36.25	9.87	46.12	65.08	18.96	QP
	0.505	34.31	9.75	44.06	56.00	11.94	
	1.129	30.76	9.92	40.68	56.00	15.32	
	2.527	30.25	10.03	40.28	56.00	15.72	
	3.681	33.84	10.17	44.01	56.00	11.99	
	7.606	34.33	10.37	44.70	60.00	15.30	
	0.168	27.49	9.87	37.36	55.08	17.72	AV
	0.505	25.16	9.75	34.91	46.00	11.09	
	1.129	20.81	9.92	30.73	46.00	15.27	
	2.527	20.70	10.03	30.73	46.00	15.27	
	3.681	24.15	10.17	34.32	46.00	11.68	
	7.606	25.59	10.37	35.96	50.00	14.04	

TEST ENGINEER: WENCY YANG

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242TA Humidity : 48%RH

Serial No. : E11121554-01/01 Date of Test : Dec 20, 2011

Test Mode : D-Sub 1280*1024@75Hz Adapter #1 : 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	0.162	35.48	9.89	45.37	65.34	19.97	QP
	0.502	32.19	9.75	41.94	56.00	14.06	
	0.974	28.72	10.20	38.92	56.00	17.08	
	1.858	28.52	10.14	38.66	56.00	17.34	
	5.713	33.12	10.11	43.23	60.00	16.77	
	8.822	33.40	10.19	43.59	60.00	16.41	
	0.162	26.42	9.89	36.31	55.34	19.03	AV
	0.502	22.13	9.75	31.88	46.00	14.12	
	0.974	19.65	10.20	29.85	46.00	16.15	
	1.858	17.46	10.14	27.60	46.00	18.40	
	5.713	23.15	10.11	33.26	50.00	16.74	
	8.822	24.50	10.19	34.69	50.00	15.31	
Neutral	0.157	37.80	9.89	47.69	65.60	17.91	QP
	0.505	31.53	9.75	41.28	56.00	14.72	
	0.890	29.24	9.91	39.15	56.00	16.85	
	1.680	28.91	9.99	38.90	56.00	17.10	
	3.901	31.79	10.19	41.98	56.00	14.02	
	8.822	32.49	10.36	42.85	60.00	17.15	
	0.157	27.46	9.89	37.35	55.60	18.25	AV
	0.505	21.03	9.75	30.78	46.00	15.22	
	0.890	20.45	9.91	30.36	46.00	15.64	
	1.680	19.81	9.99	29.80	46.00	16.20	
	3.901	21.48	10.19	31.67	46.00	14.33	
	8.822	21.56	10.36	31.92	50.00	18.08	

TEST ENGINEER: WENCY YANG

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242TA Humidity : 48%RH

Serial No. : E11121554-01/01 Date of Test : Dec 20, 2011

Test Mode : D-Sub 1680*1050@60Hz Adapter #1 : 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	0.169	35.95	9.87	45.82	64.99	19.17	QP
	0.502	32.43	9.75	42.18	56.00	13.82	
	0.953	29.86	10.19	40.05	56.00	15.95	
	1.908	30.58	10.14	40.72	56.00	15.28	
	5.333	32.51	10.08	42.59	60.00	17.41	
	8.822	34.79	10.19	44.98	60.00	15.02	
	0.169	25.60	9.87	35.47	54.99	19.52	AV
	0.502	24.10	9.75	33.85	46.00	12.15	
	0.953	20.13	10.19	30.32	46.00	15.68	
	1.908	20.80	10.14	30.94	46.00	15.06	
	5.333	22.74	10.08	32.82	50.00	17.18	
	8.822	25.03	10.19	35.22	50.00	14.78	
Neutral	0.169	36.31	9.86	46.17	64.99	18.82	QP
	0.377	33.96	9.74	43.70	58.34	14.64	
	0.871	30.68	9.90	40.58	56.00	15.42	
	1.698	31.22	9.99	41.21	56.00	14.79	
	3.901	34.37	10.19	44.56	56.00	11.44	
	8.592	34.87	10.36	45.23	60.00	14.77	
	0.169	26.90	9.86	36.76	54.99	18.23	AV
	0.377	23.80	9.74	33.54	48.34	14.80	
	0.871	20.40	9.90	30.30	46.00	15.70	
	1.698	21.31	9.99	31.30	46.00	14.70	
	3.901	24.80	10.19	34.99	46.00	11.01	
	8.592	25.60	10.36	35.96	50.00	14.04	

TEST ENGINEER: WENCY YANG

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242TA Humidity : 48%RH

Serial No. : E11121554-01/01 Date of Test : Dec 20, 2011

Test Mode : D-Sub 1920*1080@60Hz Adapter #1 : 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	0.166	35.48	9.88	45.36	65.16	19.80	QP
	0.510	32.16	9.76	41.92	56.00	14.08	
	1.296	29.17	10.20	39.37	56.00	16.63	
	1.716	28.86	10.14	39.00	56.00	17.00	
	5.112	31.83	10.07	41.90	60.00	18.10	
	9.011	33.52	10.19	43.71	60.00	16.29	
	0.166	25.46	9.88	35.34	55.16	19.82	AV
	0.510	24.16	9.76	33.92	46.00	12.08	
	1.296	20.29	10.20	30.49	46.00	15.51	
	1.716	19.70	10.14	29.84	46.00	16.16	
	5.112	21.05	10.07	31.12	50.00	18.88	
	9.011	23.70	10.19	33.89	50.00	16.11	
Neutral	0.172	35.01	9.84	44.85	64.86	20.01	QP
	0.502	31.07	9.75	40.82	56.00	15.18	
	1.449	29.40	9.97	39.37	56.00	16.63	
	2.213	28.85	10.01	38.86	56.00	17.14	
	3.840	30.77	10.18	40.95	56.00	15.05	
	8.729	33.36	10.36	43.72	60.00	16.28	
	0.172	24.15	9.84	33.99	54.86	20.87	AV
	0.502	21.05	9.75	30.80	46.00	15.20	
	1.449	19.86	9.97	29.83	46.00	16.17	
	2.213	17.60	10.01	27.61	46.00	18.39	
	3.840	20.13	10.18	30.31	46.00	15.69	
	8.729	23.60	10.36	33.96	50.00	16.04	

TEST ENGINEER: WENCY YANG

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242TA Humidity : 48%RH

Serial No. : E11121554-01/01 Date of Test : Dec 20, 2011

Test Mode : DVI 640*480@60Hz Adapter #1 : 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	0.168	34.90	9.87	44.77	65.08	20.31	QP
	0.510	31.23	9.76	40.99	56.00	15.01	
	0.909	28.55	10.19	38.74	56.00	17.26	
	1.680	29.53	10.14	39.67	56.00	16.33	
	5.166	33.05	10.07	43.12	60.00	16.88	
	8.729	32.35	10.19	42.54	60.00	17.46	
	0.168	24.59	9.87	34.46	55.08	20.62	AV
	0.510	21.06	9.76	30.82	46.00	15.18	
	0.909	18.56	10.19	28.75	46.00	17.25	
	1.680	19.48	10.14	29.62	46.00	16.38	
	5.166	24.16	10.07	34.23	50.00	15.77	
	8.729	24.89	10.19	35.08	50.00	14.92	
Neutral	0.172	34.83	9.84	44.67	64.86	20.19	QP
	0.502	31.03	9.75	40.78	56.00	15.22	
	1.269	29.19	9.94	39.13	56.00	16.87	
	1.680	29.79	9.99	39.78	56.00	16.22	
	3.840	30.82	10.18	41.00	56.00	15.00	
	8.592	32.69	10.36	43.05	60.00	16.95	
	0.172	23.15	9.84	32.99	54.86	21.87	AV
	0.502	20.48	9.75	30.23	46.00	15.77	
	1.269	19.46	9.94	29.40	46.00	16.60	
	1.680	18.53	9.99	28.52	46.00	17.48	
	3.840	20.16	10.18	30.34	46.00	15.66	
	8.592	24.60	10.36	34.96	50.00	15.04	

TEST ENGINEER: WENCY YANG

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242TA Humidity : 48%RH

Serial No. : E11121554-01/01 Date of Test : Dec 20, 2011

Test Mode : DVI 1280*1024@75Hz Adapter #1 : 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	0.170	35.25	9.86	45.11	64.94	19.83	QP
	0.398	31.18	9.74	40.92	57.90	16.98	
	0.796	32.82	10.11	42.93	56.00	13.07	
	1.698	29.08	10.14	39.22	56.00	16.78	
	5.594	31.84	10.10	41.94	60.00	18.06	
	8.916	33.81	10.19	44.00	60.00	16.00	
	0.170	25.60	9.86	35.46	54.94	19.48	AV
	0.398	21.01	9.74	30.75	47.90	17.15	
	0.796	23.40	10.11	33.51	46.00	12.49	
	1.698	19.48	10.14	29.62	46.00	16.38	
	5.594	21.03	10.10	31.13	50.00	18.87	
	8.916	24.05	10.19	34.24	50.00	15.76	
Neutral	0.170	34.83	9.86	44.69	64.94	20.25	QP
	0.505	30.89	9.75	40.64	56.00	15.36	
	1.000	29.03	9.92	38.95	56.00	17.05	
	2.358	27.49	10.03	37.52	56.00	18.48	
	5.535	30.87	10.24	41.11	60.00	18.89	
	8.323	33.43	10.36	43.79	60.00	16.21	
	0.170	23.19	9.86	33.05	54.94	21.89	AV
	0.505	19.26	9.75	29.01	46.00	16.99	
	1.000	18.60	9.92	28.52	46.00	17.48	
	2.358	20.39	10.03	30.42	46.00	15.58	
	5.535	20.60	10.24	30.84	50.00	19.16	
	8.323	24.70	10.36	35.06	50.00	14.94	

TEST ENGINEER: WENCY YANG

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242TA Humidity : 48%RH

Serial No. : E11121554-01/01 Date of Test : Dec 20, 2011

Test Mode : DVI 1680*1050@60Hz Adapter #1 : 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	0.168	34.90	9.87	44.77	65.08	20.31	QP
	0.510	31.23	9.76	40.99	56.00	15.01	
	0.909	26.55	10.19	36.74	56.00	19.26	
	1.680	28.53	10.14	38.67	56.00	17.33	
	5.166	32.05	10.07	42.12	60.00	17.88	
	8.729	31.35	10.19	41.54	60.00	18.46	
	0.168	24.30	9.87	34.17	55.08	20.91	AV
	0.510	21.05	9.76	30.81	46.00	15.19	
	0.909	17.80	10.19	27.99	46.00	18.01	
	1.680	19.64	10.14	29.78	46.00	16.22	
	5.166	23.06	10.07	33.13	50.00	16.87	
	8.729	21.02	10.19	31.21	50.00	18.79	
Neutral	0.161	36.27	9.89	46.16	65.43	19.27	QP
	0.375	31.97	9.74	41.71	58.39	16.68	
	0.871	29.11	9.90	39.01	56.00	16.99	
	2.066	28.20	10.01	38.21	56.00	17.79	
	5.058	32.94	10.21	43.15	60.00	16.85	
	8.729	32.82	10.36	43.18	60.00	16.82	
	0.161	26.50	9.89	36.39	55.43	19.04	AV
	0.375	21.30	9.74	31.04	48.39	17.35	
	0.871	19.80	9.90	29.70	46.00	16.30	
	2.066	20.10	10.01	30.11	46.00	15.89	
	5.058	23.60	10.21	33.81	50.00	16.19	
	8.729	24.15	10.36	34.51	50.00	15.49	

TEST ENGINEER: WENCY YANG

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242TA Humidity : 48%RH

Serial No. : E11121554-01/01 Date of Test : Dec 20, 2011

Test Mode : DVI 1920*1080@60Hz Adapter #1 : 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	0.170	34.75	9.86	44.61	64.94	20.33	QP
	0.502	30.11	9.75	39.86	56.00	16.14	
	0.890	28.71	10.18	38.89	56.00	17.11	
	1.645	29.34	10.14	39.48	56.00	16.52	
	5.653	32.52	10.10	42.62	60.00	17.38	
	8.729	33.72	10.19	43.91	60.00	16.09	
	0.170	25.80	9.86	35.66	54.94	19.28	AV
	0.502	20.40	9.75	30.15	46.00	15.85	
	0.890	18.70	10.18	28.88	46.00	17.12	
	1.645	20.60	10.14	30.74	46.00	15.26	
	5.653	24.10	10.10	34.20	50.00	15.80	
	8.729	22.90	10.19	33.09	50.00	16.91	
Neutral	0.159	36.56	9.89	46.45	65.52	19.07	QP
	0.385	31.55	9.74	41.29	58.17	16.88	
	1.324	28.81	9.95	38.76	56.00	17.24	
	2.044	28.58	10.01	38.59	56.00	17.41	
	5.058	31.18	10.21	41.39	60.00	18.61	
	8.637	34.00	10.36	44.36	60.00	15.64	
	0.159	27.20	9.89	37.09	55.52	18.43	AV
	0.385	21.30	9.74	31.04	48.17	17.13	
	1.324	20.01	9.95	29.96	46.00	16.04	
	2.044	20.00	10.01	30.01	46.00	15.99	
	5.058	21.48	10.21	31.69	50.00	18.31	
	8.637	24.57	10.36	34.93	50.00	15.07	

TEST ENGINEER: WENCY YANG

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242TA Humidity : 48%RH

Serial No. : E11121554-01/01 Date of Test : Dec 20, 2011

Test Mode : D-Sub 1680*1050@60Hz Adapter #2 : LCAP21

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.152	42.84	9.90	52.74	65.91	13.17	QP
	0.206	40.12	9.79	49.91	63.36	13.45	
	0.484	26.41	9.75	36.16	56.27	20.11	
	1.010	26.89	10.20	37.09	56.00	18.91	
	1.744	25.10	10.15	35.25	56.00	20.75	
	5.277	26.57	10.08	36.65	60.00	23.35	
	0.152	32.90	9.90	42.80	55.91	13.11	AV
	0.206	30.12	9.79	39.91	53.36	13.45	
	0.484	17.80	9.75	27.55	46.27	18.72	
	1.010	18.02	10.20	28.22	46.00	17.78	
	1.744	16.42	10.15	26.57	46.00	19.43	
	5.277	17.30	10.08	27.38	50.00	22.62	
Neutral	0.153	45.24	9.90	55.14	65.82	10.68	QP
	0.200	40.92	9.77	50.69	63.62	12.93	
	0.598	26.16	9.79	35.95	56.00	20.05	
	1.374	24.02	9.95	33.97	56.00	22.03	
	5.333	24.99	10.23	35.22	60.00	24.78	
	7.852	22.37	10.37	32.74	60.00	27.26	
	0.153	34.26	9.90	44.16	55.82	11.66	AV
	0.200	30.12	9.77	39.89	53.62	13.73	
	0.598	17.50	9.79	27.29	46.00	18.71	
	1.374	15.60	9.95	25.55	46.00	20.45	
	5.333	16.22	10.23	26.45	50.00	23.55	
	7.852	14.49	10.37	24.86	50.00	25.14	

TEST ENGINEER: WENCY YANG

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242TA Humidity : 48%RH

Serial No. : E11121554-01/01 Date of Test : Dec 20, 2011

Test Mode : D-Sub 1680*1050@60Hz Adapter #3 : LCAP26-A

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.155	48.55	9.90	58.45	65.74	7.29	QP
	0.194	40.47	9.79	50.26	63.84	13.58	
	0.247	33.69	9.78	43.47	61.86	18.39	
	5.058	30.13	10.07	40.20	60.00	19.80	
	16.398	27.35	10.28	37.63	60.00	22.37	
	20.377	28.83	10.25	39.08	60.00	20.92	
	0.155	38.15	9.90	48.05	55.74	7.69	AV
	0.194	30.20	9.79	39.99	53.84	13.85	
	0.247	23.10	9.78	32.88	51.86	18.98	
	5.058	20.01	10.07	30.08	50.00	19.92	
	16.398	18.90	10.28	29.18	50.00	20.82	
	20.377	20.17	10.25	30.42	50.00	19.58	
Neutral	0.157	47.19	9.89	57.08	65.60	8.52	QP
	0.202	38.69	9.77	48.46	63.54	15.08	
	0.252	33.64	9.76	43.40	61.69	18.29	
	1.928	17.50	10.01	27.51	56.00	28.49	
	5.166	28.98	10.21	39.19	60.00	20.81	
	20.377	26.15	10.12	36.27	60.00	23.73	
	0.157	37.45	9.89	47.34	55.60	8.26	AV
	0.202	28.00	9.77	37.77	53.54	15.77	
	0.252	23.16	9.76	32.92	51.69	18.77	
	1.928	10.23	10.01	20.24	46.00	25.76	
	5.166	19.27	10.21	29.48	50.00	20.52	
	20.377	18.51	10.12	28.63	50.00	21.37	

TEST ENGINEER: WENCY YANG

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242TA Humidity : 48%RH

Serial No. : E11121554-01/01 Date of Test : Dec 20, 2011

Test Mode : D-Sub 1680*1050@60Hz Adapter #4 : ADS-40FSG-19
19025GPCU-1

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.157	48.25	9.89	58.14	65.60	7.46	QP
	0.200	43.02	9.79	52.81	63.62	10.81	
	0.256	37.65	9.77	47.42	61.56	14.14	
	0.516	27.86	9.76	37.62	56.00	18.38	
	4.158	25.36	10.07	35.43	56.00	20.57	
	22.896	30.04	10.38	40.42	60.00	19.58	
	0.157	35.70	9.89	45.59	55.60	10.01	AV
	0.200	32.62	9.79	42.41	53.62	11.21	
	0.256	27.49	9.77	37.26	51.56	14.30	
	0.516	18.90	9.76	28.66	46.00	17.34	
	4.158	17.48	10.07	27.55	46.00	18.45	
	22.896	20.16	10.38	30.54	50.00	19.46	
Neutral	0.155	43.78	9.89	53.67	65.74	12.07	QP
	0.199	38.25	9.77	48.02	63.67	15.65	
	0.242	32.53	9.76	42.29	62.04	19.75	
	4.501	25.92	10.21	36.13	56.00	19.87	
	6.698	22.57	10.35	32.92	60.00	27.08	
	23.140	31.16	10.24	41.40	60.00	18.60	
	0.155	33.60	9.89	43.49	55.74	12.25	AV
	0.199	28.90	9.77	38.67	53.67	15.00	
	0.242	24.50	9.76	34.26	52.04	17.78	
	4.501	16.58	10.21	26.79	46.00	19.21	
	6.698	13.55	10.35	23.90	50.00	26.10	
	23.140	21.40	10.24	31.64	50.00	18.36	

TEST ENGINEER: WENCY YANG

4 RADIATED EMISSION TEST

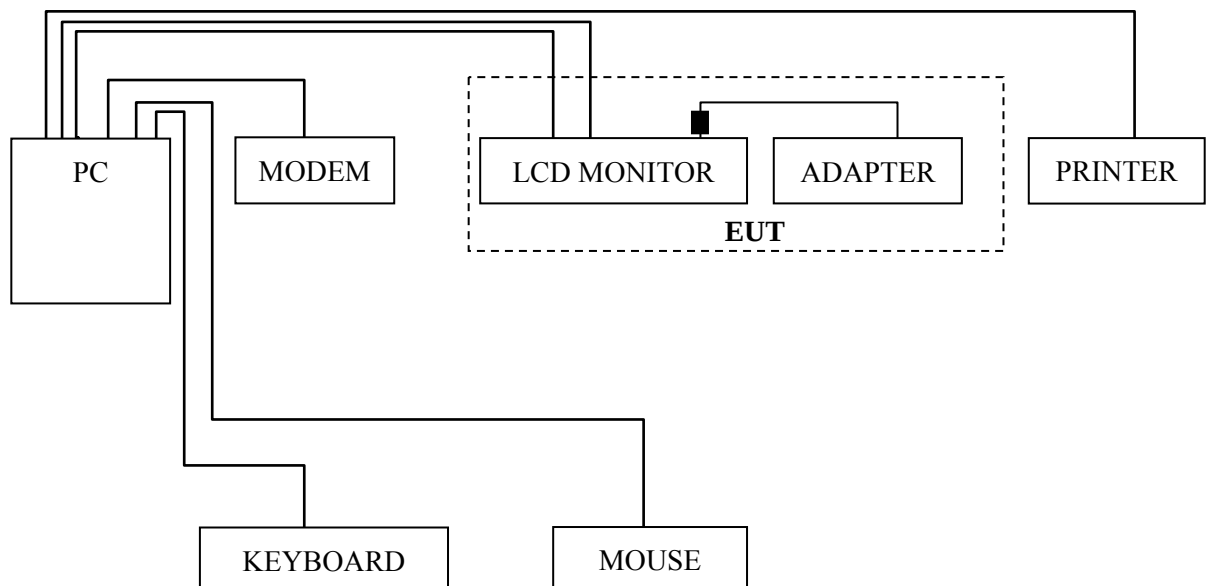
4.1 Test Equipment

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, 2011	Mar 22, 2012
2.	Preamplifier	Agilent	8447D	2944A10548	Sep 18, 2011	Mar 18, 2012
3.	Preamplifier	HP	8449B	3008A00864	Mar 22, 2011	Mar 22, 2012
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, 2011	Mar 22, 2012
7.	50 Ω Coaxial Switch	Anritsu	MP59B	6200426390	Sep 18, 2011	Mar 18, 2012
8.	Software	Audix	E3	SET00200 9912M295-2	--	--

4.2 Block Diagram of Test Setup

4.2.1 EUT and Peripherals

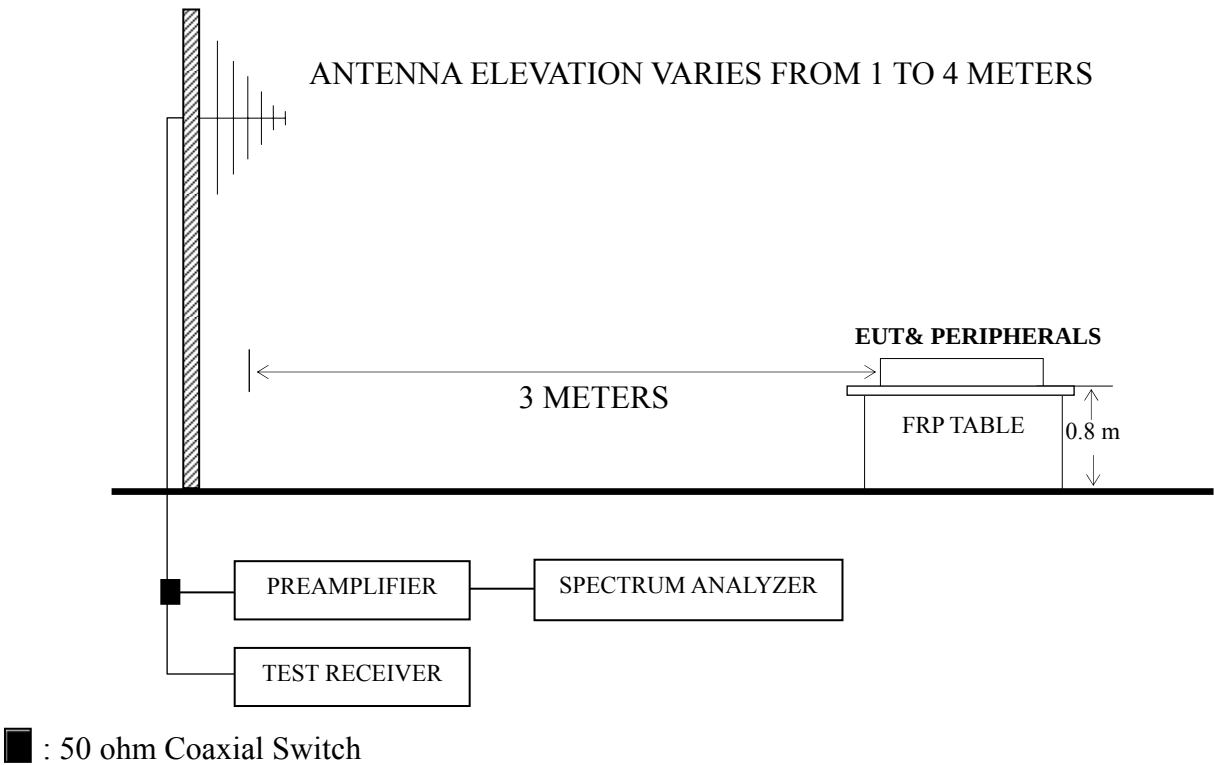


■ : Ferrite core

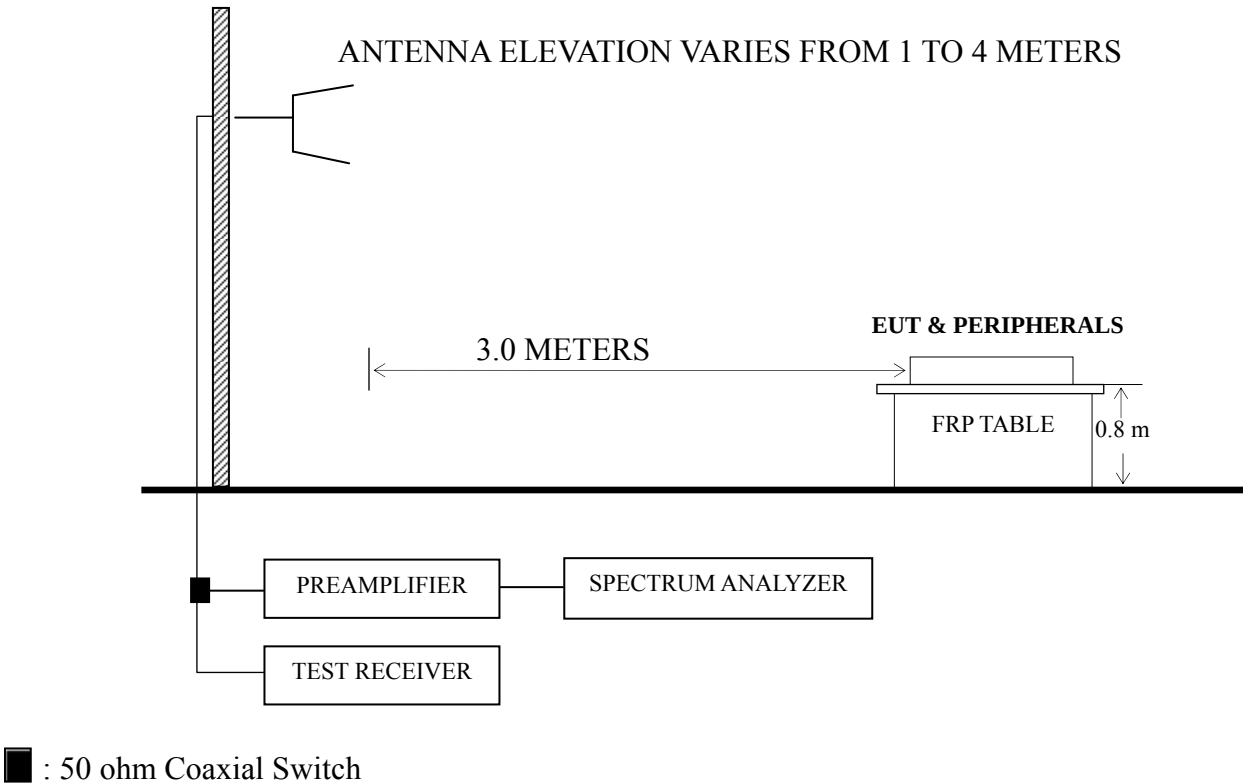
Note: Ferrite core only for Adapter #2

4.2.2 Radiated emission test setup

4.2.2.1 Below 1GHz



4.2.2.2 Above 1GHz



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 D-Sub/DVI 1280*1024@75Hz, 1680*1050@60Hz and 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.

Adapter	Test Mode	Data Page
Adapter #1	D-Sub 640*480@60Hz	P29
	D-Sub 1280*1024@75Hz	P30 – P31
	D-Sub 1680*1050@60Hz	P32 – P33
	D-Sub 1920*1080@60Hz	P34 – P35
	DVI 640*480@60Hz	P36
	DVI 1280*1024@75Hz	P37 – P38
	DVI 1680*1050@60Hz	P39 – P40
	DVI 1920*1080@60Hz	P41 – P42
Adapter #2	DVI 1920*1080@60Hz	P43 – P44
Adapter #3	DVI 1920*1080@60Hz	P45 – P46
Adapter #4	DVI 1920*1080@60Hz	P47 – P48

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 DVI 1920*1080@60Hz test mode (Adapter #1). The worst emission at horizontal polarization was detected at 742.950 MHz with corrected signal level of 41.86 dB (μV/m) (limit is 46.00 dB (μV/m)), when the antenna was 1.00 m height and the turntable was at 240°. The worst emission at vertical polarization was detected at 742.950 MHz with corrected signal level of 39.61 dB (μV/m) (limit is 46.00 dB (μV/m)), when the antenna was 1.00 m height and the turntable was at 140°.

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242TA Humidity : 60%RH

Serial No. : E11121554-01/01 Date of Test : Dec 20, 2011

Test Mode : D-Sub 640*480@60Hz Adapter #1 : 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	65.890	9.93	9.55	0.87	20.35	40.00	19.65
	138.640	10.81	10.65	1.21	22.67	43.50	20.83
	209.450	15.19	10.18	1.48	26.85	43.50	16.65
	257.950	14.03	12.31	1.62	27.96	46.00	18.04
	350.100	14.93	15.13	1.91	31.97	46.00	14.03
	873.900	8.10	20.37	2.98	31.45	46.00	14.55
Vertical	32.910	11.69	16.79	0.66	29.14	40.00	10.86
	79.470	18.46	10.51	0.94	29.91	40.00	10.09
	215.270	13.95	10.41	1.50	25.86	43.50	17.64
	347.190	12.97	15.04	1.91	29.92	46.00	16.08
	544.100	7.42	17.87	2.35	27.64	46.00	18.36
	873.900	16.59	20.37	2.98	39.94	46.00	6.06

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242TA Humidity : 60%RH

Serial No. : E11121554-01/01 Date of Test : Dec 20, 2011

Test Mode : D-Sub 1280*1024@75Hz Adapter #1 : ADS-40SG-19-3
19025G

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
Horizontal	116.330	14.93	11.07	1.12	--	27.12	43.50	16.38	QP
	159.010	17.30	10.27	1.28	--	28.85	43.50	14.65	
	257.950	15.09	12.31	1.62	--	29.02	46.00	16.98	
	342.340	20.01	14.91	1.90	--	36.82	46.00	9.18	
	374.350	15.09	15.75	1.99	--	32.83	46.00	13.17	
	873.900	10.07	20.37	2.98	--	33.42	46.00	12.58	
	1075.000	49.82	25.21	4.50	37.26	42.27	74.00	31.73	PK
	1280.000	45.14	26.23	4.53	36.83	39.07	74.00	34.93	
	1365.000	46.94	26.59	4.54	36.62	41.45	74.00	32.55	
	1595.000	44.76	27.08	4.56	36.11	40.29	74.00	33.71	
	1665.000	44.06	27.14	4.57	36.00	39.77	74.00	34.23	
	1760.000	47.87	27.23	4.58	35.86	43.82	74.00	30.18	

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242TA Humidity : 60%RH

Serial No. : E11121554-01/01 Date of Test : Dec 20, 2011

Test Mode : D-Sub 1280*1024@75Hz Adapter #1 : ADS-40SG-19-3
19025G

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	215.270	15.30	10.41	1.50	--	27.21	43.50	16.29	QP
	338.460	16.39	14.78	1.88	--	33.05	46.00	12.95	
	395.690	14.93	16.20	2.05	--	33.18	46.00	12.82	
	557.680	8.08	17.96	2.38	--	28.42	46.00	17.58	
	593.570	12.11	18.17	2.44	--	32.72	46.00	13.28	
	872.930	17.35	20.37	2.98	--	40.70	46.00	5.30	
	1080.000	44.23	25.24	4.50	37.25	36.72	74.00	37.28	PK
	1170.000	43.26	25.66	4.51	37.07	36.36	74.00	37.64	
	1315.000	46.23	26.39	4.53	36.75	40.40	74.00	33.60	
	1365.000	43.17	26.59	4.54	36.62	37.68	74.00	36.32	
	1600.000	45.55	27.08	4.56	36.10	41.09	74.00	32.91	
	1760.000	47.77	27.23	4.58	35.86	43.72	74.00	30.28	

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242TA Humidity : 60%RH

Serial No. : E11121554-01/01 Date of Test : Dec 20, 2011

Test Mode : D-Sub 1680*1050@60Hz Adapter #1 : ADS-40SG-19-3
19025G

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	116.330	15.45	11.07	1.12	--	27.64	43.50	15.86	QP
	159.010	16.21	10.27	1.28	--	27.76	43.50	15.74	
	200.720	15.39	9.83	1.45	--	26.67	43.50	16.83	
	341.370	18.62	14.87	1.90	--	35.39	46.00	10.61	
	375.320	13.21	15.79	1.99	--	30.99	46.00	15.01	
	872.930	9.19	20.37	2.98	--	32.54	46.00	13.46	
	1120.000	45.08	25.42	4.50	37.17	37.83	74.00	36.17	PK
	1315.000	42.30	26.39	4.53	36.75	36.47	74.00	37.53	
	1370.000	42.89	26.60	4.54	36.61	37.42	74.00	36.58	
	1475.000	45.00	26.93	4.55	36.35	40.13	74.00	33.87	
	1600.000	43.11	27.08	4.56	36.10	38.65	74.00	35.35	
	1840.000	40.01	27.29	4.64	35.77	36.17	74.00	37.83	

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242TA Humidity : 60%RH

Serial No. : E11121554-01/01 Date of Test : Dec 20, 2011

Test Mode : D-Sub 1680*1050@60Hz Adapter #1 : ADS-40SG-19-3
19025G

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	32.910	13.72	16.79	0.66	--	31.17	40.00	8.83	QP
	98.870	18.06	11.31	1.03	--	30.40	43.50	13.10	
	159.010	15.96	10.27	1.28	--	27.51	43.50	15.99	
	248.250	14.62	11.90	1.60	--	28.12	46.00	17.88	
	338.460	14.86	14.78	1.88	--	31.52	46.00	14.48	
	800.180	10.88	20.60	2.89	--	34.37	46.00	11.63	
	1175.000	47.81	25.69	4.51	37.06	40.95	74.00	33.05	PK
	1270.000	44.80	26.19	4.52	36.86	38.65	74.00	35.35	
	1335.000	46.24	26.47	4.53	36.70	40.54	74.00	33.46	
	1560.000	43.52	27.05	4.56	36.18	38.95	74.00	35.05	
	1665.000	42.85	27.14	4.57	36.00	38.56	74.00	35.44	
	1765.000	45.40	27.23	4.58	35.86	41.35	74.00	32.65	

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C
 Model No. : E2242TA Humidity : 60%RH
 Serial No. : E11121554-01/01 Date of Test : Dec 20, 2011
 Test Mode : D-Sub 1920*1080@60Hz Adapter #1 : ADS-40SG-19-3
19025G

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
Horizontal	83.350	13.17	10.70	0.96	--	24.83	40.00	15.17	QP
	116.330	13.83	11.07	1.12	--	26.02	43.50	17.48	
	158.040	15.27	10.28	1.28	--	26.83	43.50	16.67	
	340.400	20.89	14.83	1.90	--	37.62	46.00	8.38	
	347.190	16.67	15.04	1.91	--	33.62	46.00	12.38	
	873.900	11.92	20.37	2.98	--	35.27	46.00	10.73	
	1070.000	46.43	25.19	4.50	37.27	38.85	74.00	35.15	PK
	1180.000	46.93	25.71	4.51	37.05	40.10	74.00	33.90	
	1375.000	44.55	26.62	4.54	36.60	39.11	74.00	34.89	
	1595.000	46.87	27.08	4.56	36.11	42.40	74.00	31.60	
	1665.000	46.12	27.14	4.57	36.00	41.83	74.00	32.17	
	1855.000	43.68	27.31	4.64	35.75	39.88	74.00	34.12	

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242TA Humidity : 60%RH

Serial No. : E11121554-01/01 Date of Test : Dec 20, 2011

Test Mode : D-Sub 1920*1080@60Hz Adapter #1 : ADS-40SG-19-3
19025G

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	65.890	23.37	9.55	0.87	--	33.79	40.00	6.21	QP
	98.870	17.31	11.31	1.03	--	29.65	43.50	13.85	
	162.890	15.61	10.21	1.30	--	27.12	43.50	16.38	
	197.810	18.05	9.82	1.44	--	29.31	43.50	14.19	
	555.740	10.74	17.95	2.36	--	31.05	46.00	14.95	
	872.930	16.10	20.37	2.98	--	39.45	46.00	6.55	
	1080.000	47.21	25.24	4.50	37.25	39.70	74.00	34.30	PK
	1175.000	43.88	25.69	4.51	37.06	37.02	74.00	36.98	
	1305.000	42.21	26.34	4.53	36.77	36.31	74.00	37.69	
	1470.000	42.88	26.92	4.55	36.36	37.99	74.00	36.01	
	1675.000	41.88	27.14	4.57	35.98	37.61	74.00	36.39	
	1760.000	44.03	27.23	4.58	35.86	39.98	74.00	34.02	

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242TA Humidity : 60%RH

Serial No. : E11121554-01/01 Date of Test : Dec 20, 2011

Test Mode : DVI 640*480@60Hz Adapter #1 : 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	149.310	13.26	10.43	1.24	24.93	43.50	18.57
	257.950	14.67	12.31	1.62	28.60	46.00	17.40
	346.220	19.19	15.00	1.91	36.10	46.00	9.90
	644.980	6.27	18.81	2.57	27.65	46.00	18.35
	742.950	8.99	19.98	2.78	31.75	46.00	14.25
	872.930	6.57	20.37	2.98	29.92	46.00	16.08
Vertical	67.830	18.73	9.70	0.88	29.31	40.00	10.69
	158.040	12.90	10.28	1.28	24.46	43.50	19.04
	207.510	11.43	10.11	1.47	23.01	43.50	20.49
	527.610	6.95	17.77	2.32	27.04	46.00	18.96
	800.180	8.34	20.60	2.89	31.83	46.00	14.17
	973.810	6.84	20.69	4.01	31.54	54.00	22.46

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242TA Humidity : 60%RH

Serial No. : E11121554-01/01 Date of Test : Dec 20, 2011

Test Mode : DVI 1280*1024@75Hz Adapter #1 : ADS-40SG-19-3
19025G

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
Horizontal	80.440	3.54	10.56	0.95	--	15.05	40.00	24.95	QP
	149.310	11.00	10.43	1.24	--	22.67	43.50	20.83	
	257.950	11.88	12.31	1.62	--	25.81	46.00	20.19	
	349.130	15.62	15.09	1.91	--	32.62	46.00	13.38	
	375.320	13.05	15.79	1.99	--	30.83	46.00	15.17	
	873.900	9.10	20.37	2.98	--	32.45	46.00	13.55	
	1180.000	47.79	25.71	4.51	37.05	40.96	74.00	33.04	PK
	1365.000	48.51	26.59	4.54	36.62	43.02	74.00	30.98	
	1470.000	45.84	26.92	4.55	36.36	40.95	74.00	33.05	
	1675.000	44.10	27.14	4.57	35.98	39.83	74.00	34.17	
	1815.000	52.69	27.27	4.61	35.79	48.78	74.00	25.22	
	1850.000	47.93	27.30	4.64	35.75	44.12	74.00	29.88	

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242TA Humidity : 60%RH

Serial No. : E11121554-01/01 Date of Test : Dec 20, 2011

Test Mode : DVI 1280*1024@75Hz Adapter #1 : ADS-40SG-19-3
19025G

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	36.790	12.74	14.57	0.69	--	28.00	40.00	12.00	QP
	158.040	12.66	10.28	1.28	--	24.22	43.50	19.28	
	203.630	10.48	9.94	1.46	--	21.88	43.50	21.62	
	342.340	7.69	14.91	1.90	--	24.50	46.00	21.50	
	527.610	7.61	17.77	2.32	--	27.70	46.00	18.30	
	957.320	7.38	20.61	3.76	--	31.75	46.00	14.25	
	1075.000	43.09	25.21	4.50	37.26	35.54	74.00	38.46	PK
	1175.000	46.30	25.69	4.51	37.06	39.44	74.00	34.56	
	1370.000	44.95	26.60	4.54	36.61	39.48	74.00	34.52	
	1660.000	42.12	27.13	4.57	36.00	37.82	74.00	36.18	
	1815.000	49.41	27.27	4.61	35.79	45.50	74.00	28.50	
	1850.000	48.68	27.30	4.64	35.75	44.87	74.00	29.13	

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242TA Humidity : 60%RH

Serial No. : E11121554-01/01 Date of Test : Dec 20, 2011

Test Mode : DVI 1680*1050@60Hz Adapter #1 : ADS-40SG-19-3
19025G

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
Horizontal	149.310	13.17	10.43	1.24	--	24.84	43.50	18.66	QP
	257.950	14.07	12.31	1.62	--	28.00	46.00	18.00	
	349.130	16.22	15.09	1.91	--	33.22	46.00	12.78	
	446.130	6.30	16.92	2.16	--	25.38	46.00	20.62	
	701.240	9.94	19.50	2.67	--	32.11	46.00	13.89	
	873.900	8.45	20.37	2.98	--	31.80	46.00	14.20	
	1075.000	48.82	25.21	4.50	37.26	41.27	74.00	32.73	PK
	1250.000	42.58	26.08	4.52	36.90	36.28	74.00	37.72	
	1365.000	43.94	26.59	4.54	36.62	38.45	74.00	35.55	
	1465.000	39.89	26.90	4.55	36.37	34.97	74.00	39.03	
	1595.000	41.76	27.08	4.56	36.11	37.29	74.00	36.71	
	1760.000	43.87	27.23	4.58	35.86	39.82	74.00	34.18	

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242TA Humidity : 60%RH

Serial No. : E11121554-01/01 Date of Test : Dec 20, 2011

Test Mode : DVI 1680*1050@60Hz Adapter #1 : ADS-40SG-19-3
19025G

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	67.830	17.91	9.70	0.88	--	28.49	40.00	11.51	QP
	100.810	12.27	11.34	1.05	--	24.66	43.50	18.84	
	280.260	7.07	13.13	1.70	--	21.90	46.00	24.10	
	556.710	10.18	17.95	2.36	--	30.49	46.00	15.51	
	742.950	6.76	19.98	2.78	--	29.52	46.00	16.48	
	973.810	7.39	20.69	4.01	--	32.09	54.00	21.91	
	1080.000	49.23	25.24	4.50	37.25	41.72	74.00	32.28	PK
	1170.000	48.26	25.66	4.51	37.07	41.36	74.00	32.64	
	1315.000	51.23	26.39	4.53	36.75	45.40	74.00	28.60	
	1600.000	50.55	27.08	4.56	36.10	46.09	74.00	27.91	
	1670.000	48.97	27.14	4.57	35.99	44.69	74.00	29.31	
	1760.000	52.77	27.23	4.58	35.86	48.72	74.00	25.28	

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242TA Humidity : 60%RH

Serial No. : E11121554-01/01 Date of Test : Dec 20, 2011

Test Mode : DVI 1920*1080@60Hz Adapter #1 : ADS-40SG-19-3
19025G

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
Horizontal	149.310	14.32	10.43	1.24	--	25.99	43.50	17.51	QP
	200.720	15.94	9.83	1.45	--	27.22	43.50	16.28	
	278.320	12.33	13.05	1.70	--	27.08	46.00	18.92	
	346.220	15.25	15.00	1.91	--	32.16	46.00	13.84	
	446.130	6.93	16.92	2.16	--	26.01	46.00	19.99	
	742.950	19.10	19.98	2.78	--	41.86	46.00	4.14	
	1120.000	49.08	25.42	4.50	37.17	41.83	74.00	32.17	PK
	1240.000	44.93	26.03	4.52	36.92	38.56	74.00	35.44	
	1370.000	46.89	26.60	4.54	36.61	41.42	74.00	32.58	
	1475.000	49.00	26.93	4.55	36.35	44.13	74.00	29.87	
	1600.000	47.11	27.08	4.56	36.10	42.65	74.00	31.35	
	1840.000	44.01	27.29	4.64	35.77	40.17	74.00	33.83	

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242TA Humidity : 60%RH

Serial No. : E11121554-01/01 Date of Test : Dec 20, 2011

Test Mode : DVI 1920*1080@60Hz Adapter #1 : ADS-40SG-19-3
19025G

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	84.320	14.38	10.75	0.96	--	26.09	40.00	13.91	QP
	160.950	12.65	10.24	1.29	--	24.18	43.50	19.32	
	446.130	7.27	16.92	2.16	--	26.35	46.00	19.65	
	486.870	6.68	17.46	2.24	--	26.38	46.00	19.62	
	742.950	16.85	19.98	2.78	--	39.61	46.00	6.39	
	973.810	7.09	20.69	4.01	--	31.79	54.00	22.21	
	1175.000	52.81	25.69	4.51	37.06	45.95	74.00	28.05	PK
	1270.000	49.80	26.19	4.52	36.86	43.65	74.00	30.35	
	1335.000	51.24	26.47	4.53	36.70	45.54	74.00	28.46	
	1560.000	48.52	27.05	4.56	36.18	43.95	74.00	30.05	
	1665.000	47.85	27.14	4.57	36.00	43.56	74.00	30.44	
	1765.000	50.40	27.23	4.58	35.86	46.35	74.00	27.65	

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242TA Humidity : 60%RH

Serial No. : E11121554-01/01 Date of Test : Dec 20, 2011

Test Mode : DVI 1920*1080@60Hz Adapter #2 : LCAP21

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
Horizontal	92.080	14.28	11.08	1.00	--	26.36	43.50	17.14	QP
	161.920	18.29	10.23	1.29	--	29.81	43.50	13.69	
	243.400	21.57	11.65	1.58	--	34.80	46.00	11.20	
	378.230	11.87	15.83	2.00	--	29.70	46.00	16.30	
	480.080	11.41	17.37	2.22	--	31.00	46.00	15.00	
	960.230	8.17	20.61	3.76	--	32.54	54.00	21.46	
	1070.000	49.43	25.19	4.50	37.27	41.85	74.00	32.15	PK
	1180.000	49.93	25.71	4.51	37.05	43.10	74.00	30.90	
	1375.000	47.55	26.62	4.54	36.60	42.11	74.00	31.89	
	1595.000	49.87	27.08	4.56	36.11	45.40	74.00	28.60	
	1665.000	49.12	27.14	4.57	36.00	44.83	74.00	29.17	
	1855.000	46.68	27.31	4.64	35.75	42.88	74.00	31.12	

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242TA Humidity : 60%RH

Serial No. : E11121554-01/01 Date of Test : Dec 20, 2011

Test Mode : DVI 1920*1080@60Hz Adapter #2 : LCAP21

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	90.140	23.75	11.00	1.00	--	35.75	43.50	7.75	QP
	229.820	18.98	11.05	1.54	--	31.57	46.00	14.43	
	287.050	12.35	13.35	1.73	--	27.43	46.00	18.57	
	498.510	11.02	17.58	2.26	--	30.86	46.00	15.14	
	581.930	7.68	18.11	2.41	--	28.20	46.00	17.80	
	960.230	8.96	20.61	3.76	--	33.33	54.00	20.67	
	1080.000	53.21	25.24	4.50	37.25	45.70	74.00	28.30	PK
	1175.000	50.88	25.69	4.51	37.06	44.02	74.00	29.98	
	1305.000	49.21	26.34	4.53	36.77	43.31	74.00	30.69	
	1470.000	49.88	26.92	4.55	36.36	44.99	74.00	29.01	
	1565.000	48.61	27.05	4.56	36.17	44.05	74.00	29.95	
	1760.000	51.03	27.23	4.58	35.86	46.98	74.00	27.02	

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242TA Humidity : 60%RH

Serial No. : E11121554-01/01 Date of Test : Dec 20, 2011

Test Mode : DVI 1920*1080@60Hz Adapter #3 : 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
Horizontal	93.050	13.94	11.12	1.01	--	26.07	43.50	17.43	QP
	159.980	13.40	10.25	1.28	--	24.93	43.50	18.57	
	243.400	12.41	11.65	1.58	--	25.64	46.00	20.36	
	323.910	10.91	14.38	1.84	--	27.13	46.00	18.87	
	511.120	5.80	17.66	2.29	--	25.75	46.00	20.25	
	960.230	6.29	20.61	3.76	--	30.66	54.00	23.34	
	1180.000	51.79	25.71	4.51	37.05	44.96	74.00	29.04	PK
	1275.000	47.96	26.21	4.53	36.84	41.86	74.00	32.14	
	1365.000	52.51	26.59	4.54	36.62	47.02	74.00	26.98	
	1470.000	49.84	26.92	4.55	36.36	44.95	74.00	29.05	
	1815.000	56.69	27.27	4.61	35.79	52.78	74.00	21.22	
	1850.000	51.93	27.30	4.64	35.75	48.12	74.00	25.88	

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242TA Humidity : 60%RH

Serial No. : E11121554-01/01 Date of Test : Dec 20, 2011

Test Mode : DVI 1920*1080@60Hz Adapter #3 : 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	88.200	24.82	10.93	0.98	--	36.73	43.50	6.77	QP
	197.810	16.98	9.82	1.44	--	28.24	43.50	15.26	
	378.230	10.37	15.83	2.00	--	28.20	46.00	17.80	
	540.220	9.80	17.84	2.33	--	29.97	46.00	16.03	
	755.560	7.97	20.12	2.80	--	30.89	46.00	15.11	
	870.990	16.08	20.38	2.98	--	39.44	46.00	6.56	
	1075.000	49.09	25.21	4.50	37.26	41.54	74.00	32.46	PK
	1175.000	52.30	25.69	4.51	37.06	45.44	74.00	28.56	
	1370.000	50.95	26.60	4.54	36.61	45.48	74.00	28.52	
	1470.000	46.23	26.92	4.55	36.36	41.34	74.00	32.66	
	1660.000	48.12	27.13	4.57	36.00	43.82	74.00	30.18	
	1815.000	55.41	27.27	4.61	35.79	51.50	74.00	22.50	

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242TA Humidity : 60%RH

Serial No. : E11121554-01/01 Date of Test : Dec 20, 2011

Test Mode : DVI 1920*1080@60Hz Adapter #4 : ADS-40FSG-19
19025GPCU-1

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
Horizontal	97.900	14.03	11.28	1.03	--	26.34	43.50	17.16	QP
	165.800	15.30	10.17	1.31	--	26.78	43.50	16.72	
	323.910	14.34	14.38	1.84	--	30.56	46.00	15.44	
	497.540	7.06	17.58	2.26	--	26.90	46.00	19.10	
	872.930	8.53	20.37	2.98	--	31.88	46.00	14.12	
	960.230	7.77	20.61	3.76	--	32.14	54.00	21.86	
	1075.000	41.19	25.21	4.50	37.26	33.64	74.00	40.36	PK
	1120.000	43.08	25.42	4.50	37.17	35.83	74.00	38.17	
	1315.000	40.30	26.39	4.53	36.75	34.47	74.00	39.53	
	1370.000	40.89	26.60	4.54	36.61	35.42	74.00	38.58	
	1475.000	43.00	26.93	4.55	36.35	38.13	74.00	35.87	
	1600.000	41.11	27.08	4.56	36.10	36.65	74.00	37.35	

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242TA Humidity : 60%RH

Serial No. : E11121554-01/01 Date of Test : Dec 20, 2011

Test Mode : DVI 1920*1080@60Hz Adapter #4 : ADS-40FSG-19
19025GPCU-1

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	88.200	22.20	10.93	0.98	--	34.11	43.50	9.39	QP
	228.850	17.39	11.01	1.54	--	29.94	46.00	16.06	
	323.910	10.41	14.38	1.84	--	26.63	46.00	19.37	
	425.760	10.73	16.64	2.12	--	29.49	46.00	16.51	
	870.990	17.46	20.38	2.98	--	40.82	46.00	5.18	
	960.230	9.18	20.61	3.76	--	33.55	54.00	20.45	
	1175.000	47.81	25.69	4.51	37.06	40.95	74.00	33.05	PK
	1270.000	44.80	26.19	4.52	36.86	38.65	74.00	35.35	
	1335.000	46.24	26.47	4.53	36.70	40.54	74.00	33.46	
	1375.000	44.50	26.62	4.54	36.60	39.06	74.00	34.94	
	1560.000	43.52	27.05	4.56	36.18	38.95	74.00	35.05	
	1765.000	45.40	27.23	4.58	35.86	41.35	74.00	32.65	

TEST ENGINEER: RAVEN JIN

5 DEVIATION TO TEST SPECIFICATIONS

None.

6 DEBUG DESCRIPTION

The following components are used during the countermeasure procedures:

Name	Specifications (mm)	Manufacturer	Location
EMI SMT Sponge	10*10*10T	EXPAN Electronics SUZHOU Co., Ltd.	See Appendix Figure 9
EMI Tape	60mm*50mm*0.5um	EXPAN Electronics SUZHOU Co., Ltd.	See Appendix Figure 15

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)