

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

LCD Monitor

Model No.: E2242TA

Serial No.: E1202231-01/02, E1202231-02/02

FCC ID : BEJE2242TA

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

Prepared By : Audix Technology (Shanghai) Co., Ltd.
3F and 4F, 34Bldg 680 Guiping Rd,
Caohejing Hi-Tech Park,
Shanghai 200233, China

Tel: +86-21-64955500
Fax: +86-21-64955491

Report No. : ACI-F12002A1
Date of Test : Mar 01, 2012
Date of Report : Mar 10, 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	25
4.1 Test Equipment.....	25
4.2 Block Diagram of Test Setup	25
4.3 Radiated Emission Limit [FCC Part 15 Subpart B 15.109(a)].....	27
4.4 Test Configuration.....	27
4.5 Operating Condition of EUT	27
4.6 Test Procedures	28
4.7 Test Results	29
5 DEVIATION TO TEST SPECIFICATIONS	51

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. : E1202231-01/02, E1202231-02/02
(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: E1202231-01/02, E1202231-02/02) which was tested in 3m anechoic chamber Mar 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 01, 2012 Date of Report : Mar 10, 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. : E1202231-01/02 for LGM215AB01 Panel
E1202231-02/02 for LGM215AC01 Panel

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

Report No.	Model No.	Rev. Summary	Edition No.	Data of Rev.
ACI-F12002	E2242TA	Original Report.	0	Jan 06, 2012
ACI-F12002A1	E2242TA	1.To add two new panels 2.To add a new appearance	Rev. A1	Mar 10, 2012

Real Power : 22.00W (Adapter #1, LGM215AB01 Panel)
23.50W (Adapter #2, LGM215AB01 Panel)
22.00W (Adapter #3, LGM215AB01 Panel)
23.50W (Adapter #4, LGM215AB01 Panel)
22.20W (Adapter #1, LGM215AC01 Panel)
23.00W (Adapter #2, LGM215AC01 Panel)
22.30W (Adapter #3, LGM215AC01 Panel)
23.00W (Adapter #4, LGM215AC01 Panel)

AC Adapter #1 : 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 #2 : 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 #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 #1	: Manufacturer: LG Electronics Inc. M/N : LGM215AB01
LCD Panel #2	: Manufacturer: LG Electronics Inc. M/N : LGM215AC01
Max Resolution	: 1920*1080@60Hz
D-Sub Cable #1	: Shielded, Detachable, 1.85m, with two cores on cable
D-Sub Cable #2	: Shielded, Detachable, 1.50m, with two cores in connector
DVI Cable #1	: Shielded, Detachable, 1.85m, with two cores on cable
DVI Cable #2	: Shielded, Detachable, 1.50m, with two cores in connect
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

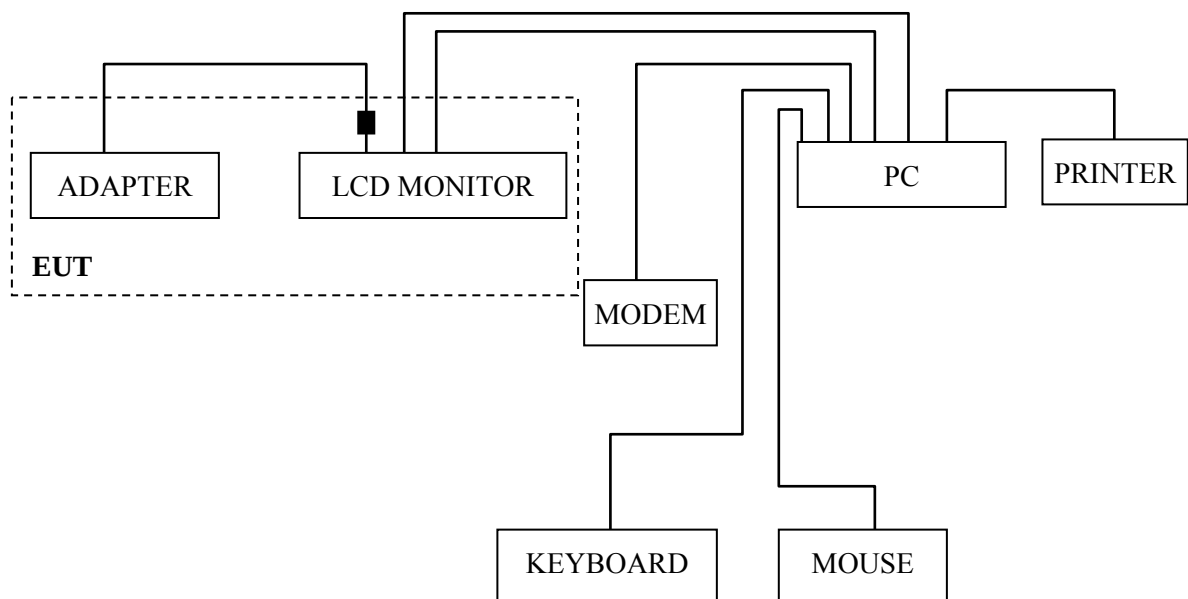
3.1 Test Equipment

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

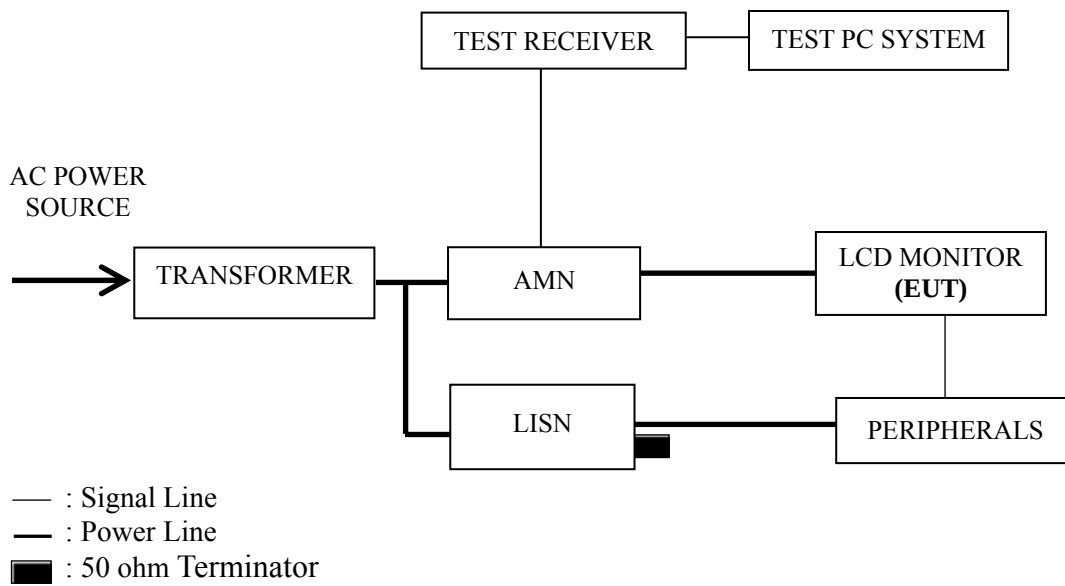
3.2.1 EUT & Peripherals



■ : Ferrite core

Note: Ferrite core only for Adapter #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 (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:

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

NOTE: We tested the EUT using adapter #1 with LCD panel #1, and selected the worst test mode to perform test with other adapters with LCD panel #1 & #2.

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.

Panel	Adapter	Test Mode	Data Page
Panel #1	Adapter #1	D-Sub 1920*1080@60Hz	P13
		DVI 1920*1080@60Hz	P14
		DVI 1680*1050@60Hz	P15
		DVI 1280*1024@75Hz	P16
		DVI 640*480@60Hz	P17
	Adapter #2	DVI 1920*1080@60Hz	P18
	Adapter #3	DVI 1920*1080@60Hz	P19
Panel #2	Adapter #4	DVI 1920*1080@60Hz	P20
	Adapter #1	DVI 1920*1080@60Hz	P21
	Adapter #2	DVI 1920*1080@60Hz	P22
	Adapter #3	DVI 1920*1080@60Hz	P23
	Adapter #4	DVI 1920*1080@60Hz	P24

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 DVI 1920*1080@60Hz test mode (Adapter #3, Panel #2). The worst emission is detected at 0.199 MHz (Quasi-Peak Value) with corrected signal level of 60.97 dB (μV) (limit is 63.66 dB (μV)), when the Neutral of the EUT is connected to AMN.

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242TA Humidity : 48%RH

Serial No. : E1202231-01/02 Date of Test : Mar 01, 2012

Test Mode : D-Sub 1920*1080@60Hz Adapter #1 : LCAP21

Panel #1 : LGM215AB01

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.150	60.55	0.22	60.77	66.00	5.23	QP
	0.180	58.45	0.23	58.68	64.50	5.82	
	0.389	37.82	0.29	38.11	58.08	19.97	
	1.249	23.53	0.39	23.92	56.00	32.08	
	2.594	28.23	0.45	28.68	56.00	27.32	
	4.721	36.27	0.55	36.82	56.00	19.18	
	0.150	50.12	0.22	50.34	56.00	5.66	AV
	0.180	48.10	0.23	48.33	54.50	6.17	
	0.389	27.56	0.29	27.85	48.08	20.23	
	1.249	16.22	0.39	16.61	46.00	29.39	
	2.594	19.45	0.45	19.90	46.00	26.10	
	4.721	27.45	0.55	28.00	46.00	18.00	
Neutral	0.150	60.51	0.18	60.69	66.00	5.31	QP
	0.180	58.19	0.19	58.38	64.50	6.12	
	0.375	36.98	0.22	37.20	58.39	21.19	
	1.519	24.70	0.52	25.22	56.00	30.78	
	2.554	25.48	0.57	26.05	56.00	29.95	
	4.822	30.85	0.76	31.61	56.00	24.39	
	0.150	50.12	0.18	50.30	56.00	5.70	AV
	0.180	47.26	0.19	47.45	54.50	7.05	
	0.375	26.50	0.22	26.72	48.39	21.67	
	1.519	16.20	0.52	16.72	46.00	29.28	
	2.554	17.45	0.57	18.02	46.00	27.98	
	4.822	20.16	0.76	20.92	46.00	25.08	

TEST ENGINEER: WENCY YANG

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242TA Humidity : 48%RH

Serial No. : E1202231-01/02 Date of Test : Mar 01, 2012

Test Mode : DVI 1920*1080@60Hz Adapter #1 : LCAP21

Panel #1 : LGM215AB01

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.150	62.78	0.22	63.00	66.00	3.00	QP
	0.180	60.12	0.23	60.35	64.50	4.15	
	0.385	38.71	0.29	39.00	58.17	19.17	
	1.153	23.64	0.37	24.01	56.00	31.99	
	2.931	29.11	0.46	29.57	56.00	26.43	
	4.926	31.27	0.55	31.82	56.00	24.18	
	0.150	52.13	0.22	52.35	56.00	3.65	AV
	0.180	50.12	0.23	50.35	54.50	4.15	
	0.385	28.45	0.29	28.74	48.17	19.43	
	1.153	14.24	0.37	14.61	46.00	31.39	
	2.931	20.13	0.46	20.59	46.00	25.41	
	4.926	21.03	0.55	21.58	46.00	24.42	
Neutral	0.170	59.05	0.19	59.24	64.94	5.70	QP
	0.221	50.38	0.18	50.56	62.79	12.23	
	0.274	44.97	0.19	45.16	60.98	15.82	
	0.329	42.88	0.21	43.09	59.49	16.40	
	4.874	31.29	0.76	32.05	56.00	23.95	
	14.063	27.50	1.16	28.66	60.00	31.34	
	0.170	49.15	0.19	49.34	54.94	5.60	AV
	0.221	40.12	0.18	40.30	52.79	12.49	
	0.274	34.62	0.19	34.81	50.98	16.17	
	0.329	32.03	0.21	32.24	49.49	17.25	
	4.874	21.00	0.76	21.76	46.00	24.24	
	14.063	16.99	1.16	18.15	50.00	31.85	

TEST ENGINEER: WENCY YANG

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242TA Humidity : 48%RH

Serial No. : E1202231-01/02 Date of Test : Mar 01, 2012

Test Mode : DVI 1680*1050@60Hz Adapter #1 : LCAP21

Panel #1 : LGM215AB01

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.150	62.23	0.22	62.45	66.00	3.55	QP
	0.180	59.16	0.23	59.39	64.50	5.11	
	0.413	39.33	0.30	39.63	57.59	17.96	
	1.043	22.66	0.37	23.03	56.00	32.97	
	2.736	28.75	0.45	29.20	56.00	26.80	
	4.772	33.57	0.55	34.12	56.00	21.88	
	0.150	52.00	0.22	52.22	56.00	3.78	AV
	0.180	48.50	0.23	48.73	54.50	5.77	
	0.413	29.60	0.30	29.90	47.59	17.69	
	1.043	15.23	0.37	15.60	46.00	30.40	
	2.736	20.14	0.45	20.59	46.00	25.41	
	4.772	25.10	0.55	25.65	46.00	20.35	
Neutral	0.150	62.19	0.18	62.37	66.00	3.63	QP
	0.180	59.71	0.19	59.90	64.50	4.60	
	0.413	37.72	0.24	37.96	57.59	19.63	
	1.519	24.31	0.52	24.83	56.00	31.17	
	2.678	26.47	0.58	27.05	56.00	28.95	
	4.772	32.26	0.76	33.02	56.00	22.98	
	0.150	52.13	0.18	52.31	56.00	3.69	AV
	0.180	49.15	0.19	49.34	54.50	5.16	
	0.413	28.55	0.24	28.79	47.59	18.80	
	1.519	15.23	0.52	15.75	46.00	30.25	
	2.678	17.40	0.58	17.98	46.00	28.02	
	4.772	24.15	0.76	24.91	46.00	21.09	

TEST ENGINEER: WENCY YANG

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242TA Humidity : 48%RH

Serial No. : E1202231-01/02 Date of Test : Mar 01, 2012

Test Mode : DVI 1280*1024@75Hz Adapter #1 : LCAP21

Panel #1 : LGM215AB01

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.155	61.87	0.22	62.09	65.74	3.65	QP
	0.180	58.96	0.23	59.19	64.50	5.31	
	0.371	38.62	0.29	38.91	58.47	19.56	
	1.282	23.45	0.39	23.84	56.00	32.16	
	2.044	27.32	0.44	27.76	56.00	28.24	
	4.721	34.88	0.55	35.43	56.00	20.57	
	0.155	51.02	0.22	51.24	55.74	4.50	AV
	0.180	48.70	0.23	48.93	54.50	5.57	
	0.371	29.56	0.29	29.85	48.47	18.62	
	1.282	17.10	0.39	17.49	46.00	28.51	
	2.044	18.45	0.44	18.89	46.00	27.11	
	4.721	25.60	0.55	26.15	46.00	19.85	
Neutral	0.150	61.36	0.18	61.54	66.00	4.46	QP
	0.182	58.66	0.19	58.85	64.42	5.57	
	0.375	37.19	0.22	37.41	58.39	20.98	
	1.433	22.48	0.50	22.98	56.00	33.02	
	2.309	25.84	0.57	26.41	56.00	29.59	
	4.721	31.24	0.76	32.00	56.00	24.00	
	0.150	51.02	0.18	51.20	56.00	4.80	AV
	0.182	48.50	0.19	48.69	54.42	5.73	
	0.375	27.15	0.22	27.37	48.39	21.02	
	1.433	14.23	0.50	14.73	46.00	31.27	
	2.309	16.22	0.57	16.79	46.00	29.21	
	4.721	21.05	0.76	21.81	46.00	24.19	

TEST ENGINEER: WENCY YANG

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242TA Humidity : 48%RH

Serial No. : E1202231-01/02 Date of Test : Mar 01, 2012

Test Mode : DVI 640*480@60Hz Adapter #1 : LCAP21

Panel #1 : LGM215AB01

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.150	62.53	0.22	62.75	66.00	3.25	QP
	0.180	59.38	0.23	59.61	64.50	4.89	
	0.481	39.21	0.31	39.52	56.32	16.80	
	1.010	24.33	0.37	24.70	56.00	31.30	
	1.970	26.71	0.44	27.15	56.00	28.85	
	4.721	33.96	0.55	34.51	56.00	21.49	
	0.150	52.12	0.22	52.34	56.00	3.66	AV
	0.180	49.15	0.23	49.38	54.50	5.12	
	0.481	29.23	0.31	29.54	46.32	16.78	
	1.010	15.26	0.37	15.63	46.00	30.37	
	1.970	17.45	0.44	17.89	46.00	28.11	
	4.721	25.26	0.55	25.81	46.00	20.19	
Neutral	0.150	62.26	0.18	62.44	66.00	3.56	QP
	0.180	59.51	0.19	59.70	64.50	4.80	
	0.375	37.69	0.22	37.91	58.39	20.48	
	1.487	21.81	0.52	22.33	56.00	33.67	
	2.931	26.15	0.60	26.75	56.00	29.25	
	4.822	31.39	0.76	32.15	56.00	23.85	
	0.150	52.12	0.18	52.30	56.00	3.70	AV
	0.180	49.15	0.19	49.34	54.50	5.16	
	0.375	27.15	0.22	27.37	48.39	21.02	
	1.487	15.23	0.52	15.75	46.00	30.25	
	2.931	17.48	0.60	18.08	46.00	27.92	
	4.822	21.26	0.76	22.02	46.00	23.98	

TEST ENGINEER: WENCY YANG

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242TA Humidity : 48%RH

Serial No. : E1202231-01/02 Date of Test : Mar 01, 2012

Test Mode : DVI 1920*1080@60Hz Adapter #2 : ADS-40SG-19-3
19025G

Panel #1 : LGM215AB01

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.152	55.11	0.22	55.33	65.91	10.58	QP
	0.184	48.16	0.23	48.39	64.28	15.89	
	0.440	37.87	0.31	38.18	57.07	18.89	
	1.388	33.65	0.40	34.05	56.00	21.95	
	2.448	34.62	0.45	35.07	56.00	20.93	
	5.713	32.35	0.59	32.94	60.00	27.06	
	0.152	45.12	0.22	45.34	55.91	10.57	AV
	0.184	38.56	0.23	38.79	54.28	15.49	
	0.440	27.47	0.31	27.78	47.07	19.29	
	1.388	24.16	0.40	24.56	46.00	21.44	
	2.448	25.16	0.45	25.61	46.00	20.39	
	5.713	24.12	0.59	24.71	50.00	25.29	
Neutral	0.150	54.92	0.18	55.10	66.00	10.90	QP
	0.186	48.09	0.19	48.28	64.20	15.92	
	0.456	39.15	0.24	39.39	56.76	17.37	
	1.449	33.24	0.51	33.75	56.00	22.25	
	2.309	35.77	0.57	36.34	56.00	19.66	
	5.653	34.46	0.81	35.27	60.00	24.73	
	0.150	45.10	0.18	45.28	56.00	10.72	AV
	0.186	38.44	0.19	38.63	54.20	15.57	
	0.456	29.23	0.24	29.47	46.76	17.29	
	1.449	24.59	0.51	25.10	46.00	20.90	
	2.309	25.15	0.57	25.72	46.00	20.28	
	5.653	25.60	0.81	26.41	50.00	23.59	

TEST ENGINEER: WENCY YANG

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242TA Humidity : 48%RH

Serial No. : E1202231-01/02 Date of Test : Mar 01, 2012

Test Mode : DVI 1920*1080@60Hz Adapter #3 : LCAP26-A

Panel #1 : LGM215AB01

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.153	62.82	0.22	63.04	65.82	2.78	QP
	0.177	60.49	0.23	60.72	64.64	3.92	
	0.206	54.29	0.23	54.52	63.36	8.84	
	0.303	45.00	0.24	45.24	60.15	14.91	
	0.494	36.56	0.31	36.87	56.10	19.23	
	4.721	32.56	0.55	33.11	56.00	22.89	
	0.153	51.03	0.22	51.25	55.82	4.57	AV
	0.177	50.12	0.23	50.35	54.64	4.29	
	0.206	45.60	0.23	45.83	53.36	7.53	
	0.303	34.15	0.24	34.39	50.15	15.76	
	0.494	27.45	0.31	27.76	46.10	18.34	
	4.721	23.60	0.55	24.15	46.00	21.85	
Neutral	0.150	62.93	0.18	63.11	66.00	2.89	QP
	0.182	60.67	0.19	60.86	64.42	3.56	
	0.371	41.19	0.22	41.41	58.47	17.06	
	1.388	26.69	0.48	27.17	56.00	28.83	
	2.448	33.03	0.57	33.60	56.00	22.40	
	4.696	36.14	0.76	36.90	56.00	19.10	
	0.150	43.20	0.18	43.38	56.00	12.62	AV
	0.182	50.12	0.19	50.31	54.42	4.11	
	0.371	34.16	0.22	34.38	48.47	14.09	
	1.388	17.15	0.48	17.63	46.00	28.37	
	2.448	23.60	0.57	24.17	46.00	21.83	
	4.696	26.58	0.76	27.34	46.00	18.66	

TEST ENGINEER: WENCY YANG

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242TA Humidity : 48%RH

Serial No. : E1202231-01/02 Date of Test : Mar 01, 2012

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

Panel #1 : LGM215AB01

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.153	50.69	0.22	50.91	65.82	14.91	QP
	0.192	42.80	0.23	43.03	63.93	20.90	
	0.431	27.88	0.31	28.19	57.24	29.05	
	1.296	23.79	0.39	24.18	56.00	31.82	
	2.554	24.80	0.45	25.25	56.00	30.75	
	8.916	26.00	0.73	26.73	60.00	33.27	
	0.153	40.12	0.22	40.34	55.82	15.48	AV
	0.192	36.60	0.23	36.83	53.93	17.10	
	0.431	18.09	0.31	18.40	47.24	28.84	
	1.296	15.23	0.39	15.62	46.00	30.38	
	2.554	16.30	0.45	16.75	46.00	29.25	
	8.916	17.02	0.73	17.75	50.00	32.25	
Neutral	0.150	50.98	0.18	51.16	66.00	14.84	QP
	0.194	44.13	0.19	44.32	63.84	19.52	
	0.435	31.90	0.24	32.14	57.15	25.01	
	1.249	27.44	0.46	27.90	56.00	28.10	
	2.650	26.07	0.58	26.65	56.00	29.35	
	9.451	25.19	1.03	26.22	60.00	33.78	
	0.150	40.12	0.18	40.30	56.00	15.70	AV
	0.194	34.60	0.19	34.79	53.84	19.05	
	0.435	21.03	0.24	21.27	47.15	25.88	
	1.249	20.40	0.46	20.86	46.00	25.14	
	2.650	17.48	0.58	18.06	46.00	27.94	
	9.451	17.26	1.03	18.29	50.00	31.71	

TEST ENGINEER: WENCY YANG

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242TA Humidity : 48%RH

Serial No. : E1202231-02/02 Date of Test : Mar 01, 2012

Test Mode : DVI 1920*1080@60Hz Adapter #1 : LCAP21

Panel #2 : LGM215AC01

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.150	62.10	0.22	62.32	65.99	3.67	QP
	0.175	59.80	0.23	60.03	64.72	4.69	
	0.410	37.50	0.30	37.80	57.65	19.85	
	2.000	23.71	0.44	24.15	56.00	31.85	
	2.900	28.64	0.46	29.10	56.00	26.90	
	4.600	31.40	0.55	31.95	56.00	24.05	
	0.150	51.10	0.22	51.32	55.99	4.67	AV
	0.175	49.80	0.23	50.03	54.72	4.69	
	0.410	26.50	0.30	26.80	47.65	20.85	
	2.000	14.53	0.44	14.97	46.00	31.03	
	2.900	20.40	0.46	20.86	46.00	25.14	
	4.600	21.50	0.55	22.05	46.00	23.95	
Neutral	0.175	58.45	0.19	58.64	64.72	6.08	QP
	0.220	50.28	0.18	50.46	62.82	12.36	
	0.350	42.60	0.21	42.81	58.96	16.15	
	2.000	26.00	0.55	26.55	56.00	29.45	
	4.567	31.23	0.76	31.99	56.00	24.01	
	14.120	27.89	1.16	29.05	60.00	30.95	
	0.175	49.00	0.19	49.19	54.72	5.53	AV
	0.220	40.00	0.18	40.18	52.82	12.64	
	0.350	31.50	0.21	31.71	48.96	17.25	
	2.000	19.40	0.55	19.95	46.00	26.05	
	4.567	21.30	0.76	22.06	46.00	23.94	
	14.120	17.01	1.16	18.17	50.00	31.83	

TEST ENGINEER: WENCY YANG

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242TA Humidity : 48%RH

Serial No. : E1202231-02/02 Date of Test : Mar 01, 2012

Test Mode : DVI 1920*1080@60Hz Adapter #2 : ADS-40SG-19-3
19025G

Panel #2 : LGM215AC01

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.152	54.26	0.22	54.48	65.91	11.43	QP
	0.185	48.03	0.23	48.26	64.26	16.00	
	0.436	37.50	0.31	37.81	57.14	19.33	
	1.360	32.50	0.39	32.89	56.00	23.11	
	2.450	34.10	0.45	34.55	56.00	21.45	
	5.720	31.80	0.59	32.39	60.00	27.61	
	0.152	45.00	0.22	45.22	55.91	10.69	AV
	0.185	38.40	0.23	38.63	54.26	15.63	
	0.436	27.09	0.31	27.40	47.14	19.74	
	1.360	24.00	0.39	24.39	46.00	21.61	
	2.450	25.30	0.45	25.75	46.00	20.25	
	5.720	24.30	0.59	24.89	50.00	25.11	
Neutral	0.156	54.20	0.19	54.39	65.67	11.28	QP
	0.187	47.64	0.19	47.83	64.17	16.34	
	0.450	38.90	0.24	39.14	56.88	17.74	
	1.050	33.10	0.44	33.54	56.00	22.46	
	2.300	35.79	0.57	36.36	56.00	19.64	
	5.640	34.52	0.81	35.33	60.00	24.67	
	0.156	45.09	0.19	45.28	55.67	10.39	AV
	0.187	38.40	0.19	38.59	54.17	15.58	
	0.450	28.70	0.24	28.94	46.88	17.94	
	1.050	24.17	0.44	24.61	46.00	21.39	
	2.300	25.39	0.57	25.96	46.00	20.04	
	5.640	25.42	0.81	26.23	50.00	23.77	

TEST ENGINEER: WENCY YANG

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242TA Humidity : 48%RH

Serial No. : E1202231-02/02 Date of Test : Mar 01, 2012

Test Mode : DVI 1920*1080@60Hz Adapter #3 : LCAP26-A

Panel #2 : LGM215AC01

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.153	62.86	0.22	63.08	65.82	2.74	QP
	0.176	60.38	0.23	60.61	64.68	4.07	
	0.210	54.16	0.23	54.39	63.21	8.82	
	0.340	45.14	0.27	45.41	59.20	13.79	
	0.497	36.40	0.31	36.71	56.05	19.34	
	4.715	32.16	0.55	32.71	56.00	23.29	
	0.153	45.40	0.22	45.62	55.82	10.20	AV
	0.176	50.20	0.23	50.43	54.68	4.25	
	0.210	45.06	0.23	45.29	53.21	7.92	
	0.340	33.81	0.27	34.08	49.20	15.12	
	0.497	27.36	0.31	27.67	46.05	18.38	
	4.715	23.40	0.55	23.95	46.00	22.05	
Neutral	0.150	62.97	0.18	63.15	65.99	2.84	QP
	0.199	60.78	0.19	60.97	63.66	2.69	
	0.360	41.31	0.21	41.52	58.73	17.21	
	1.390	26.90	0.48	27.38	56.00	28.62	
	2.200	33.41	0.55	33.96	56.00	22.04	
	4.690	36.71	0.76	37.47	56.00	18.53	
	0.150	43.80	0.18	43.98	55.99	12.01	AV
	0.199	50.40	0.19	50.59	53.66	3.07	
	0.360	34.51	0.21	34.72	48.73	14.01	
	1.390	17.65	0.48	18.13	46.00	27.87	
	2.200	23.71	0.55	24.26	46.00	21.74	
	4.690	26.46	0.76	27.22	46.00	18.78	

TEST ENGINEER: WENCY YANG

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242TA Humidity : 48%RH

Serial No. : E1202231-02/02 Date of Test : Mar 01, 2012

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

Panel #2 : LGM215AC01

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.153	50.87	0.22	51.09	65.82	14.73	QP
	0.201	42.93	0.23	43.16	63.57	20.41	
	0.430	27.84	0.31	28.15	57.25	29.10	
	1.268	23.84	0.39	24.23	56.00	31.77	
	2.550	24.65	0.45	25.10	56.00	30.90	
	8.920	26.00	0.73	26.73	60.00	33.27	
	0.153	40.41	0.22	40.63	55.82	15.19	AV
	0.201	37.20	0.23	37.43	53.57	16.14	
	0.430	18.29	0.31	18.60	47.25	28.65	
	1.268	15.25	0.39	15.64	46.00	30.36	
	2.550	16.42	0.45	16.87	46.00	29.13	
	8.920	17.34	0.73	18.07	50.00	31.93	
Neutral	0.152	51.35	0.19	51.54	65.89	14.35	QP
	0.195	44.06	0.19	44.25	63.84	19.59	
	0.451	31.87	0.24	32.11	56.86	24.75	
	1.249	27.37	0.46	27.83	56.00	28.17	
	2.654	26.58	0.58	27.16	56.00	28.84	
	9.370	26.34	1.03	27.37	60.00	32.63	
	0.152	40.25	0.19	40.44	55.89	15.45	AV
	0.195	34.57	0.19	34.76	53.84	19.08	
	0.451	20.97	0.24	21.21	46.86	25.65	
	1.249	20.86	0.46	21.32	46.00	24.68	
	2.654	17.85	0.58	18.43	46.00	27.57	
	9.370	17.42	1.03	18.45	50.00	31.55	

TEST ENGINEER: WENCY YANG

4 RADIATED EMISSION TEST

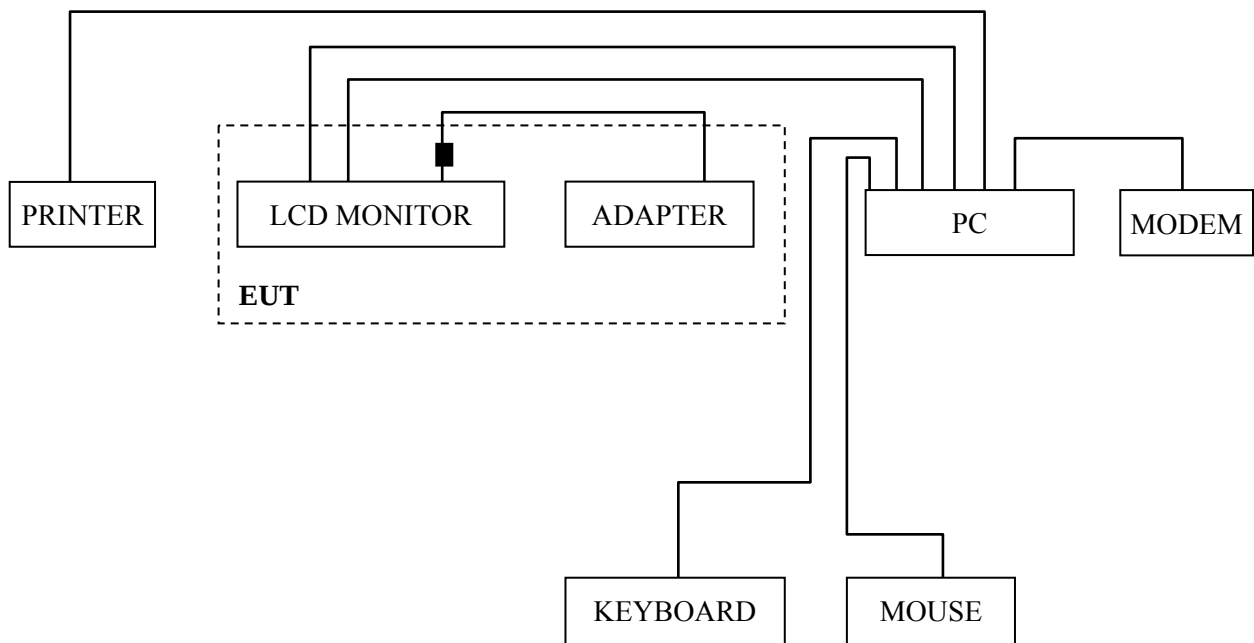
4.1 Test Equipment

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

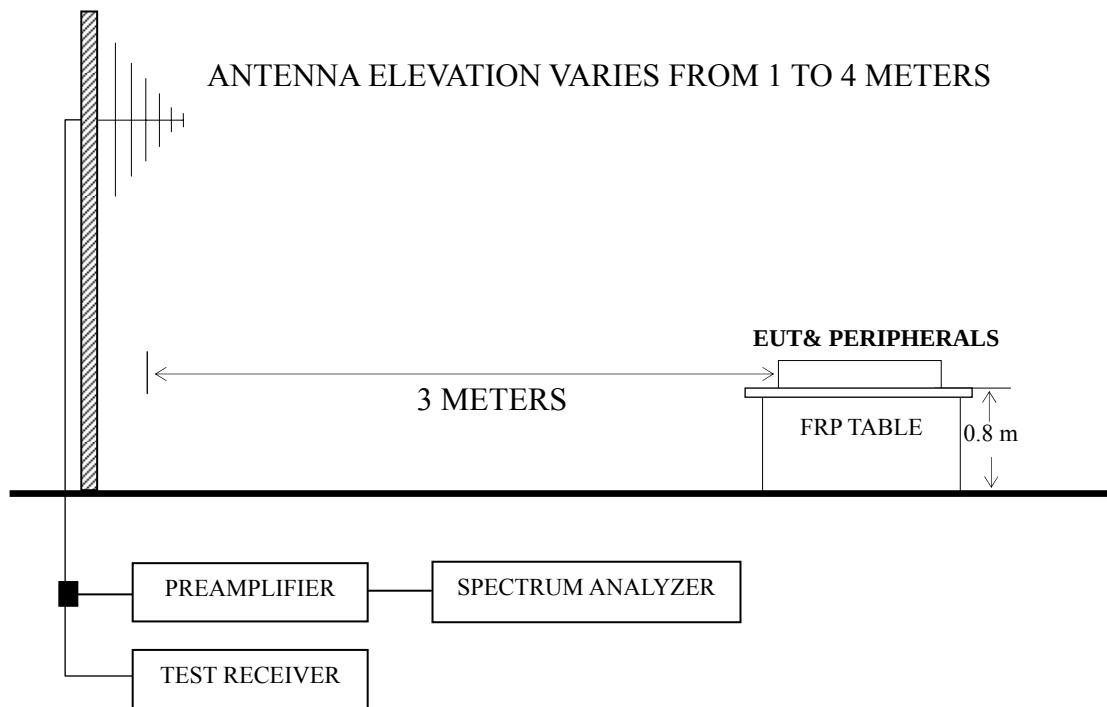


■ : Ferrite core

Note: Ferrite core only for Adapter #1

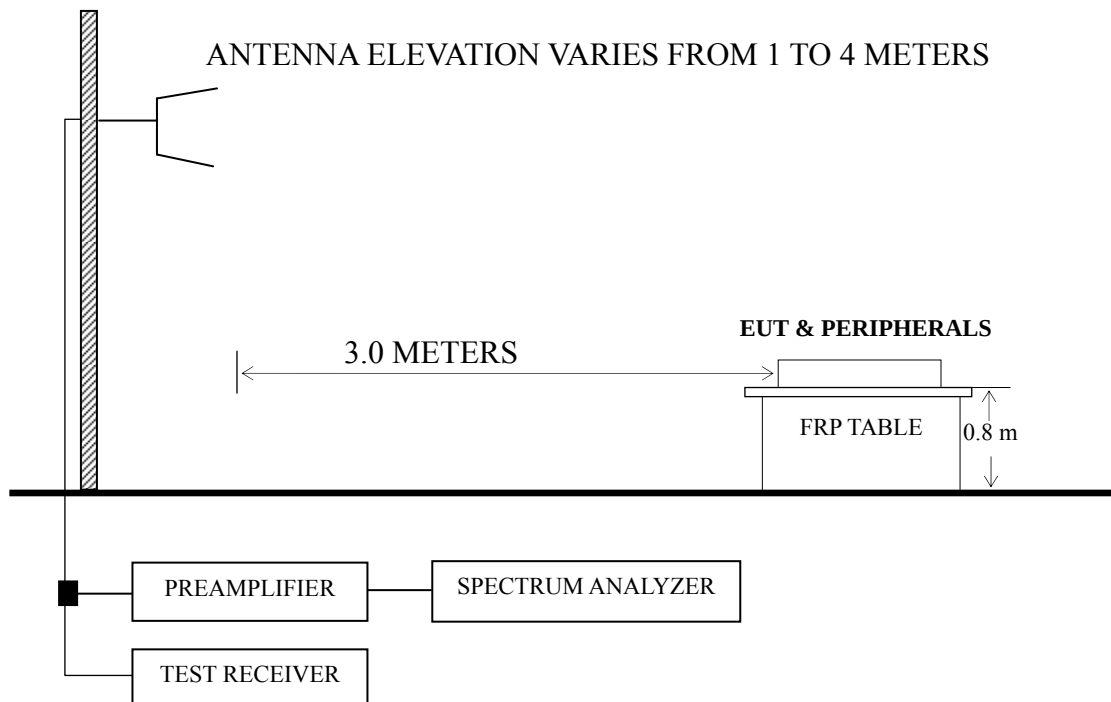
4.2.2 Radiated emission test setup

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 maximum resolution 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.

Panel	Adapter	Test Mode	Data Page
Panel #1	Adapter #1	D-Sub 1920*1080@60Hz	P30 – P31
		DVI 1920*1080@60Hz	P32 – P33
		DVI 1680*1050@60Hz	P34
		DVI 1280*1024@75Hz	P35
		DVI 640*480@60Hz	P36
	Adapter #2	DVI 1920*1080@60Hz	P37 – P38
	Adapter #3	DVI 1920*1080@60Hz	P39 – P40
	Adapter #4	DVI 1920*1080@60Hz	P41 – P42
Panel #2	Adapter #1	DVI 1920*1080@60Hz	P43 – P44
	Adapter #2	DVI 1920*1080@60Hz	P45 – P46
	Adapter #3	DVI 1920*1080@60Hz	P47 – P48
	Adapter #4	DVI 1920*1080@60Hz	P49 – P50

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 reading are Quasi-Peak values below or equal to 1GHz, Peak values or Peak & Average vales 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 – We tested the EUT using adapter #1 with LCD panel #1, and selected the worst test mode to perform test with other adapters with LCD panel #1 & #2.

NOTE 8 – The worst case is for DVI 1920*1080@60Hz test mode (Adapter #1, Panel #1). The worst emission at horizontal polarization was detected at 75.590 MHz with corrected signal level of 38.27 dB (μV/m) (limit is 40.00 dB (μV/m)), when the antenna was 1.00 m height and the turntable was at 70°. The worst emission at vertical polarization was detected at 75.590 MHz with corrected signal level of 37.08 dB (μV/m) (limit is 40.00 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. : E1202231-01/02 Date of Test : Mar 01, 2012

Test Mode : D-Sub 1920*1080@60Hz Adapter #1 : LCAP21

Panel #1 : LGM215AB01

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	75.590	25.20	10.27	1.53	--	37.00	40.00	3.00	QP
	193.930	25.21	9.86	2.41	--	37.48	43.50	6.02	
	247.280	27.02	11.85	2.60	--	41.47	46.00	4.53	
	322.940	26.27	14.34	2.82	--	43.43	46.00	2.57	
	415.090	14.56	16.50	3.02	--	34.08	46.00	11.92	
	875.840	8.15	20.37	4.75	--	33.27	46.00	12.73	
	1075.000	55.88	22.16	5.27	38.04	45.27	74.00	28.73	PK
	1250.000	50.46	24.05	5.42	37.65	42.28	74.00	31.72	
	1365.000	51.43	24.80	5.55	37.33	44.45	74.00	29.55	
	1465.000	46.20	26.11	5.72	37.06	40.97	74.00	33.03	
	1595.000	47.72	26.41	5.93	36.77	43.29	74.00	30.71	
	1760.000	50.18	26.96	6.17	36.49	46.82	74.00	27.18	
	1075.000	44.88	22.16	5.27	38.04	34.27	54.00	19.73	AV
	1250.000	35.46	24.05	5.42	37.65	27.28	54.00	26.72	
	1365.000	38.43	24.80	5.55	37.33	31.45	54.00	22.55	
	1465.000	35.20	26.11	5.72	37.06	29.97	54.00	24.03	
	1595.000	38.72	26.41	5.93	36.77	34.29	54.00	19.71	
	1760.000	36.18	26.96	6.17	36.49	32.82	54.00	21.18	

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242TA Humidity : 60%RH

Serial No. : E1202231-01/02 Date of Test : Mar 01, 2012

Test Mode : D-Sub 1920*1080@60Hz Adapter #1 : LCAP21

Panel #1 : LGM215AB01

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	77.530	23.58	10.39	1.56	--	35.53	40.00	4.47	QP
	145.430	17.68	10.50	2.20	--	30.38	43.50	13.12	
	193.930	19.41	9.86	2.41	--	31.68	43.50	11.82	
	247.280	20.35	11.85	2.60	--	34.80	46.00	11.20	
	322.940	17.76	14.34	2.82	--	34.92	46.00	11.08	
	415.090	13.73	16.50	3.02	--	33.25	46.00	12.75	
	1080.000	46.24	22.24	5.27	38.03	35.72	74.00	38.28	PK
	1170.000	44.47	23.38	5.34	37.83	35.36	74.00	38.64	
	1315.000	46.87	24.50	5.51	37.48	39.40	74.00	34.60	
	1465.000	41.26	26.11	5.72	37.06	36.03	74.00	37.97	
	1600.000	44.52	26.40	5.93	36.76	40.09	74.00	33.91	
	1760.000	46.08	26.96	6.17	36.49	42.72	74.00	31.28	
	1080.000	37.24	22.24	5.27	38.03	26.72	54.00	27.28	AV
	1170.000	29.47	23.38	5.34	37.83	20.36	54.00	33.64	
	1315.000	35.87	24.50	5.51	37.48	28.40	54.00	25.60	
	1465.000	27.26	26.11	5.72	37.06	22.03	54.00	31.97	
	1600.000	33.52	26.40	5.93	36.76	29.09	54.00	24.91	
	1760.000	30.08	26.96	6.17	36.49	26.72	54.00	27.28	

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242TA Humidity : 60%RH

Serial No. : E1202231-01/02 Date of Test : Mar 01, 2012

Test Mode : DVI 1920*1080@60Hz Adapter #1 : LCAP21

Panel #1 : LGM215AB01

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	75.590	26.47	10.27	1.53	--	38.27	40.00	1.73	QP
	201.690	24.56	9.87	2.43	--	36.86	43.50	6.64	
	322.940	20.40	14.34	2.82	--	37.56	46.00	8.44	
	446.130	18.72	16.92	3.11	--	38.75	46.00	7.25	
	594.540	13.68	18.17	3.45	--	35.30	46.00	10.70	
	741.980	18.56	19.98	3.78	--	42.32	46.00	3.68	
	1075.000	52.88	22.16	5.27	38.04	42.27	74.00	31.73	PK
	1180.000	46.35	23.49	5.34	37.81	37.37	74.00	36.63	
	1365.000	48.43	24.80	5.55	37.33	41.45	74.00	32.55	
	1465.000	43.20	26.11	5.72	37.06	37.97	74.00	36.03	
	1595.000	44.72	26.41	5.93	36.77	40.29	74.00	33.71	
	1760.000	47.18	26.96	6.17	36.49	43.82	74.00	30.18	
	1075.000	42.88	22.16	5.27	38.04	32.27	54.00	21.73	AV
	1180.000	32.35	23.49	5.34	37.81	23.37	54.00	30.63	
	1365.000	37.43	24.80	5.55	37.33	30.45	54.00	23.55	
	1465.000	32.20	26.11	5.72	37.06	26.97	54.00	27.03	
	1595.000	36.72	26.41	5.93	36.77	32.29	54.00	21.71	
	1760.000	35.18	26.96	6.17	36.49	31.82	54.00	22.18	

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242TA Humidity : 60%RH

Serial No. : E1202231-01/02 Date of Test : Mar 01, 2012

Test Mode : DVI 1920*1080@60Hz Adapter #1 : LCAP21

Panel #1 : LGM215AB01

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	75.590	25.28	10.27	1.53	--	37.08	40.00	2.92	QP
	145.430	18.64	10.50	2.20	--	31.34	43.50	12.16	
	193.930	16.28	9.86	2.41	--	28.55	43.50	14.95	
	322.940	12.12	14.34	2.82	--	29.28	46.00	16.72	
	424.790	12.26	16.62	3.06	--	31.94	46.00	14.06	
	594.540	14.33	18.17	3.45	--	35.95	46.00	10.05	
	1080.000	54.01	22.24	4.50	38.03	42.72	74.00	31.28	PK
	1185.000	51.32	23.54	4.51	37.80	41.57	74.00	32.43	
	1315.000	54.85	24.50	4.53	37.48	46.40	74.00	27.60	
	1520.000	47.77	26.55	4.55	36.92	41.95	74.00	32.05	
	1600.000	52.89	26.40	4.56	36.76	47.09	74.00	26.91	
	1850.000	48.62	26.52	4.64	36.37	43.41	74.00	30.59	
	1080.000	43.01	22.24	4.50	38.03	31.72	54.00	22.28	AV
	1185.000	36.32	23.54	4.51	37.80	26.57	54.00	27.43	
	1315.000	42.85	24.50	4.53	37.48	34.40	54.00	19.60	
	1520.000	34.77	26.55	4.55	36.92	28.95	54.00	25.05	
	1600.000	42.89	26.40	4.56	36.76	37.09	54.00	16.91	
	1850.000	34.62	26.52	4.64	36.37	29.41	54.00	24.59	

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C
 Model No. : E2242TA Humidity : 60%RH
 Serial No. : E1202231-01/02 Date of Test : Mar 01, 2012
 Test Mode : DVI 1680*1050@60Hz Adapter #1 : LCAP21
 Panel #1 : LGM215AB01

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	75.590	24.06	10.27	1.53	35.86	40.00	4.14
	201.690	25.96	9.87	2.43	38.26	43.50	5.24
	259.890	20.03	12.40	2.64	35.07	46.00	10.93
	322.940	25.45	14.34	2.82	42.61	46.00	3.39
	446.130	18.42	16.92	3.11	38.45	46.00	7.55
	741.980	18.53	19.98	3.78	42.29	46.00	3.71
Vertical	75.590	24.24	10.27	1.53	36.04	40.00	3.96
	145.430	17.99	10.50	2.20	30.69	43.50	12.81
	322.940	11.11	14.34	2.82	28.27	46.00	17.73
	424.790	14.04	16.62	3.06	33.72	46.00	12.28
	741.980	16.43	19.98	3.78	40.19	46.00	5.81
	872.930	15.57	20.37	4.60	40.54	46.00	5.46

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C
 Model No. : E2242TA Humidity : 60%RH
 Serial No. : E1202231-01/02 Date of Test : Mar 01, 2012
 Test Mode : DVI 1280*1024@75Hz Adapter #1 : LCAP21
 Panel #1 : LGM215AB01

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	75.590	24.87	10.27	1.53	36.67	40.00	3.33
	201.690	25.38	9.87	2.43	37.68	43.50	5.82
	322.940	26.18	14.34	2.82	43.34	46.00	2.66
	446.130	17.56	16.92	3.11	37.59	46.00	8.41
	594.540	15.02	18.17	3.45	36.64	46.00	9.36
	741.980	17.47	19.98	3.78	41.23	46.00	4.77
Vertical	75.590	24.77	10.27	1.53	36.57	40.00	3.43
	145.430	21.75	10.50	2.20	34.45	43.50	9.05
	322.940	13.54	14.34	2.82	30.70	46.00	15.30
	415.090	14.17	16.50	3.02	33.69	46.00	12.31
	594.540	13.10	18.17	3.45	34.72	46.00	11.28
	741.980	18.77	19.98	3.78	42.53	46.00	3.47

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242TA Humidity : 60%RH

Serial No. : E1202231-01/02 Date of Test : Mar 01, 2012

Test Mode : DVI 640*480@60Hz Adapter #1 : LCAP21

Panel #1 : LGM215AB01

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	75.590	24.94	10.27	1.53	36.74	40.00	3.26
	145.430	19.27	10.50	2.20	31.97	43.50	11.53
	201.690	25.68	9.87	2.43	37.98	43.50	5.52
	322.940	26.71	14.34	2.82	43.87	46.00	2.13
	446.130	17.79	16.92	3.11	37.82	46.00	8.18
	741.980	19.62	19.98	3.78	43.38	46.00	2.62
Vertical	75.590	24.11	10.27	1.53	35.91	40.00	4.09
	145.430	22.67	10.50	2.20	35.37	43.50	8.13
	193.930	19.21	9.86	2.41	31.48	43.50	12.02
	415.090	14.67	16.50	3.02	34.19	46.00	11.81
	424.790	14.75	16.62	3.06	34.43	46.00	11.57
	659.530	11.61	19.00	3.60	34.21	46.00	11.79

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242TA Humidity : 60%RH

Serial No. : E1202231-01/02 Date of Test : Mar 01, 2012

Test Mode : DVI 1920*1080@60Hz Adapter #2 : ADS-40SG-19-3
19025G

Panel #1 : LGM215AB01

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	72.680	18.50	10.08	1.47	--	30.05	40.00	9.95	QP
	288.990	23.94	13.39	2.72	--	40.05	46.00	5.95	
	322.940	24.12	14.34	2.82	--	41.28	46.00	4.72	
	594.540	16.69	18.17	3.45	--	38.31	46.00	7.69	
	741.980	15.13	19.98	3.78	--	38.89	46.00	7.11	
	890.390	10.64	20.33	4.89	--	35.86	46.00	10.14	
	1075.000	52.88	22.16	5.27	38.04	42.27	74.00	31.73	PK
	1180.000	46.35	23.49	5.34	37.81	37.37	74.00	36.63	
	1365.000	48.43	24.80	5.55	37.33	41.45	74.00	32.55	
	1465.000	43.20	26.11	5.72	37.06	37.97	74.00	36.03	
	1595.000	44.72	26.41	5.93	36.77	40.29	74.00	33.71	
	1760.000	47.18	26.96	6.17	36.49	43.82	74.00	30.18	
	1075.000	42.88	22.16	5.27	38.04	32.27	54.00	21.73	AV
	1180.000	32.35	23.49	5.34	37.81	23.37	54.00	30.63	
	1365.000	37.43	24.80	5.55	37.33	30.45	54.00	23.55	
	1465.000	32.20	26.11	5.72	37.06	26.97	54.00	27.03	
	1595.000	36.72	26.41	5.93	36.77	32.29	54.00	21.71	
	1760.000	35.18	26.96	6.17	36.49	31.82	54.00	22.18	

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242TA Humidity : 60%RH

Serial No. : E1202231-01/02 Date of Test : Mar 01, 2012

Test Mode : DVI 1920*1080@60Hz Adapter #2 : ADS-40SG-19-3
19025G

Panel #1 : LGM215AB01

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	65.890	21.00	9.55	1.32	--	31.87	40.00	8.13	QP
	82.380	19.49	10.67	1.63	--	31.79	40.00	8.21	
	322.940	15.86	14.34	2.82	--	33.02	46.00	12.98	
	446.130	20.41	16.92	3.11	--	40.44	46.00	5.56	
	528.580	17.28	17.77	3.33	--	38.38	46.00	7.62	
	741.980	14.58	19.98	3.78	--	38.34	46.00	7.66	
	1080.000	54.01	22.24	4.50	38.03	42.72	74.00	31.28	PK
	1185.000	51.32	23.54	4.51	37.80	41.57	74.00	32.43	
	1315.000	54.85	24.50	4.53	37.48	46.40	74.00	27.60	
	1520.000	47.77	26.55	4.55	36.92	41.95	74.00	32.05	
	1600.000	52.89	26.40	4.56	36.76	47.09	74.00	26.91	
	1850.000	48.62	26.52	4.64	36.37	43.41	74.00	30.59	
	1080.000	43.01	22.24	4.50	38.03	31.72	54.00	22.28	AV
	1185.000	36.32	23.54	4.51	37.80	26.57	54.00	27.43	
	1315.000	42.85	24.50	4.53	37.48	34.40	54.00	19.60	
	1520.000	34.77	26.55	4.55	36.92	28.95	54.00	25.05	
	1600.000	42.89	26.40	4.56	36.76	37.09	54.00	16.91	
	1850.000	34.62	26.52	4.64	36.37	29.41	54.00	24.59	

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242TA Humidity : 60%RH

Serial No. : E1202231-01/02 Date of Test : Mar 01, 2012

Test Mode : DVI 1920*1080@60Hz Adapter #3 : LCAP26-A

Panel #1 : LGM215AB01

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	70.740	15.85	9.93	1.43	--	27.21	40.00	12.79	QP
	208.480	27.16	10.15	2.46	--	39.77	43.50	3.73	
	288.990	20.74	13.39	2.72	--	36.85	46.00	9.15	
	446.130	23.90	16.92	3.11	--	43.93	46.00	2.07	
	567.380	10.45	18.02	3.40	--	31.87	46.00	14.13	
	741.980	12.70	19.98	3.78	--	36.46	46.00	9.54	
	1075.000	50.88	22.16	5.27	38.04	40.27	74.00	33.73	PK
	1180.000	41.35	23.49	5.34	37.81	32.37	74.00	41.63	
	1250.000	38.46	24.05	5.42	37.65	30.28	74.00	43.72	
	1365.000	46.43	24.80	5.55	37.33	39.45	74.00	34.55	
	1595.000	42.72	26.41	5.93	36.77	38.29	74.00	35.71	
	1760.000	45.18	26.96	6.17	36.49	41.82	74.00	32.18	
	1075.000	37.88	22.16	5.27	38.04	27.27	54.00	26.73	AV
	1180.000	30.35	23.49	5.34	37.81	21.37	54.00	32.63	
	1250.000	30.46	24.05	5.42	37.65	22.28	54.00	31.72	
	1365.000	33.43	24.80	5.55	37.33	26.45	54.00	27.55	
	1595.000	32.72	26.41	5.93	36.77	28.29	54.00	25.71	
	1760.000	31.18	26.96	6.17	36.49	27.82	54.00	26.18	

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C
 Model No. : E2242TA Humidity : 60%RH
 Serial No. : E1202231-01/02 Date of Test : Mar 01, 2012
 Test Mode : DVI 1920*1080@60Hz Adapter #3 : ADS-40SG-19-3
 19025G
 Panel #1 : LGM215AB01

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	61.040	24.89	9.21	1.21	--	35.31	40.00	4.69	QP
	81.410	19.91	10.62	1.61	--	32.14	40.00	7.86	
	213.330	23.95	10.33	2.47	--	36.75	43.50	6.75	
	353.980	18.44	15.25	2.89	--	36.58	46.00	9.42	
	594.540	21.53	18.17	3.45	--	43.15	46.00	2.85	
	741.980	19.94	19.98	3.78	--	43.70	46.00	2.30	PK
	1080.000	49.01	22.24	4.50	38.03	37.72	74.00	36.28	
	1275.000	46.59	24.25	4.53	37.57	37.80	74.00	36.20	
	1365.000	46.67	24.80	4.54	37.33	38.68	74.00	35.32	
	1600.000	47.89	26.40	4.56	36.76	42.09	74.00	31.91	
	1760.000	49.67	26.96	4.58	36.49	44.72	74.00	29.28	AV
	1850.000	43.62	26.52	4.64	36.37	38.41	74.00	35.59	
	1080.000	40.01	22.24	4.50	38.03	28.72	54.00	25.28	
	1275.000	31.59	24.25	4.53	37.57	22.80	54.00	31.20	
	1365.000	33.67	24.80	4.54	37.33	25.68	54.00	28.32	
	1600.000	35.89	26.40	4.56	36.76	30.09	54.00	23.91	
	1760.000	36.67	26.96	4.58	36.49	31.72	54.00	22.28	
	1850.000	29.62	26.52	4.64	36.37	24.41	54.00	29.59	

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C
 Model No. : E2242TA Humidity : 60%RH
 Serial No. : E1202231-01/02 Date of Test : Mar 01, 2012
 Test Mode : DVI 1920*1080@60Hz Adapter #4 : ADS-40FSG-19
19025GPCU-1
 Panel #1 : LGM215AB01

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	27.58	10.33	2.47	--	40.38	43.50	3.12	QP
	288.990	23.19	13.39	2.72	--	39.30	46.00	6.70	
	315.180	19.88	14.12	2.79	--	36.79	46.00	9.21	
	353.980	17.95	15.25	2.89	--	36.09	46.00	9.91	
	594.540	14.47	18.17	3.45	--	36.09	46.00	9.91	
	890.390	12.31	20.33	4.89	--	37.53	46.00	8.47	
	1075.000	52.88	22.16	5.27	38.04	42.27	74.00	31.73	PK
	1250.000	47.46	24.05	5.42	37.65	39.28	74.00	34.72	
	1365.000	48.43	24.80	5.55	37.33	41.45	74.00	32.55	
	1465.000	43.20	26.11	5.72	37.06	37.97	74.00	36.03	
	1595.000	44.72	26.41	5.93	36.77	40.29	74.00	33.71	
	1760.000	47.18	26.96	6.17	36.49	43.82	74.00	30.18	
	1075.000	37.88	22.16	5.27	38.04	27.27	54.00	26.73	AV
	1250.000	34.46	24.05	5.42	37.65	26.28	54.00	27.72	
	1365.000	34.43	24.80	5.55	37.33	27.45	54.00	26.55	
	1465.000	32.20	26.11	5.72	37.06	26.97	54.00	27.03	
	1595.000	34.72	26.41	5.93	36.77	30.29	54.00	23.71	
	1760.000	35.18	26.96	6.17	36.49	31.82	54.00	22.18	

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242TA Humidity : 60%RH

Serial No. : E1202231-01/02 Date of Test : Mar 01, 2012

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

Panel #1 : LGM215AB01

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	65.890	21.28	9.55	1.32	--	32.15	40.00	7.85	QP
	82.380	19.07	10.67	1.63	--	31.37	40.00	8.63	
	184.230	18.76	9.95	2.37	--	31.08	43.50	12.42	
	322.940	15.72	14.34	2.82	--	32.88	46.00	13.12	
	446.130	20.89	16.92	3.11	--	40.92	46.00	5.08	
	741.980	16.45	19.98	3.78	--	40.21	46.00	5.79	
	1080.000	50.01	22.24	4.50	38.03	38.72	74.00	35.28	PK
	1275.000	47.59	24.25	4.53	37.57	38.80	74.00	35.20	
	1365.000	47.67	24.80	4.54	37.33	39.68	74.00	34.32	
	1465.000	45.43	26.11	4.55	37.06	39.03	74.00	34.97	
	1600.000	48.89	26.40	4.56	36.76	43.09	74.00	30.91	
	1760.000	50.67	26.96	4.58	36.49	45.72	74.00	28.28	
	1080.000	41.01	22.24	4.50	38.03	29.72	54.00	24.28	AV
	1275.000	32.59	24.25	4.53	37.57	23.80	54.00	30.20	
	1365.000	35.67	24.80	4.54	37.33	27.68	54.00	26.32	
	1465.000	32.43	26.11	4.55	37.06	26.03	54.00	27.97	
	1600.000	37.89	26.40	4.56	36.76	32.09	54.00	21.91	
	1760.000	35.67	26.96	4.58	36.49	30.72	54.00	23.28	

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242TA Humidity : 60%RH

Serial No. : E1202231-02/02 Date of Test : Mar 01, 2012

Test Mode : DVI 1920*1080@60Hz Adapter #1 : LCAP21

Panel #2 : LGM215AC01

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	70.740	19.47	9.93	1.43	--	30.83	40.00	9.17	QP
	208.480	27.96	10.15	2.46	--	40.57	43.50	2.93	
	284.140	23.67	13.24	2.71	--	39.62	46.00	6.38	
	315.180	22.01	14.12	2.79	--	38.92	46.00	7.08	
	594.540	16.62	18.17	3.45	--	38.24	46.00	7.76	
	741.980	18.63	19.98	3.78	--	42.39	46.00	3.61	
	1075.000	48.88	22.16	5.27	38.04	38.27	74.00	35.73	PK
	1250.000	43.46	24.05	5.42	37.65	35.28	74.00	38.72	
	1365.000	44.43	24.80	5.55	37.33	37.45	74.00	36.55	
	1465.000	39.20	26.11	5.72	37.06	33.97	74.00	40.03	
	1595.000	40.72	26.41	5.93	36.77	36.29	74.00	37.71	
	1760.000	43.18	26.96	6.17	36.49	39.82	74.00	34.18	
	1075.000	40.88	22.16	5.27	38.04	30.27	54.00	23.73	AV
	1250.000	32.46	24.05	5.42	37.65	24.28	54.00	29.72	
	1365.000	30.43	24.80	5.55	37.33	23.45	54.00	30.55	
	1465.000	26.20	26.11	5.72	37.06	20.97	54.00	33.03	
	1595.000	28.72	26.41	5.93	36.77	24.29	54.00	29.71	
	1760.000	29.18	26.96	6.17	36.49	25.82	54.00	28.18	

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242TA Humidity : 60%RH

Serial No. : E1202231-02/02 Date of Test : Mar 01, 2012

Test Mode : DVI 1920*1080@60Hz Adapter #1 : LCAP21

Panel #2 : LGM215AC01

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	33.880	14.11	16.26	0.83	--	31.20	40.00	8.80	QP
	90.140	21.98	11.00	1.73	--	34.71	43.50	8.79	
	208.480	20.91	10.15	2.46	--	33.52	43.50	9.98	
	353.980	17.72	15.25	2.89	--	35.86	46.00	10.14	
	446.130	22.08	16.92	3.11	--	42.11	46.00	3.89	
	741.980	17.46	19.98	3.78	--	41.22	46.00	4.78	
	1080.000	43.24	22.24	5.27	38.03	32.72	74.00	41.28	PK
	1275.000	40.65	24.25	5.47	37.57	32.80	74.00	41.20	
	1365.000	40.66	24.80	5.55	37.33	33.68	74.00	40.32	
	1465.000	38.26	26.11	5.72	37.06	33.03	74.00	40.97	
	1600.000	41.52	26.40	5.93	36.76	37.09	74.00	36.91	
	1760.000	43.08	26.96	6.17	36.49	39.72	74.00	34.28	
	1080.000	32.24	22.24	5.27	38.03	21.72	54.00	32.28	AV
	1275.000	29.65	24.25	5.47	37.57	21.80	54.00	32.20	
	1365.000	28.66	24.80	5.55	37.33	21.68	54.00	32.32	
	1465.000	22.26	26.11	5.72	37.06	17.03	54.00	36.97	
	1600.000	29.52	26.40	5.93	36.76	25.09	54.00	28.91	
	1760.000	30.08	26.96	6.17	36.49	26.72	54.00	27.28	

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242TA Humidity : 60%RH

Serial No. : E1202231-02/02 Date of Test : Mar 01, 2012

Test Mode : DVI 1920*1080@60Hz Adapter #2 : ADS-40SG-19-3
19025G

Panel #2 : LGM215AC01

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	31.940	12.38	17.29	0.82	--	30.49	40.00	9.51	QP
	70.740	18.02	9.93	1.43	--	29.38	40.00	10.62	
	208.480	24.86	10.15	2.46	--	37.47	43.50	6.03	
	288.990	24.52	13.39	2.72	--	40.63	46.00	5.37	
	446.130	22.80	16.92	3.11	--	42.83	46.00	3.17	
	741.980	17.88	19.98	3.78	--	41.64	46.00	4.36	
	1075.000	57.88	22.16	5.27	38.04	47.27	74.00	26.73	PK
	1180.000	59.35	23.49	5.34	37.81	50.37	74.00	23.63	
	1250.000	59.46	24.05	5.42	37.65	51.28	74.00	22.72	
	1365.000	53.43	24.80	5.55	37.33	46.45	74.00	27.55	
	1465.000	48.20	26.11	5.72	37.06	42.97	74.00	31.03	
	1595.000	49.72	26.41	5.93	36.77	45.29	74.00	28.71	
	1075.000	42.88	22.16	5.27	38.04	32.27	54.00	21.73	AV
	1180.000	46.35	23.49	5.34	37.81	37.37	54.00	16.63	
	1250.000	47.46	24.05	5.42	37.65	39.28	54.00	14.72	
	1365.000	39.43	24.80	5.55	37.33	32.45	54.00	21.55	
	1465.000	38.20	26.11	5.72	37.06	32.97	54.00	21.03	
	1595.000	34.72	26.41	5.93	36.77	30.29	54.00	23.71	

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242TA Humidity : 60%RH

Serial No. : E1202231-02/02 Date of Test : Mar 01, 2012

Test Mode : DVI 1920*1080@60Hz Adapter #2 : ADS-40SG-19-3
19025G

Panel #2 : LGM215AC01

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	33.880	16.69	16.26	0.83	--	33.78	40.00	6.22	QP
	90.140	15.55	11.00	1.73	--	28.28	43.50	15.22	
	208.480	20.86	10.15	2.46	--	33.47	43.50	10.03	
	255.040	14.67	12.22	2.63	--	29.52	46.00	16.48	
	446.130	20.80	16.92	3.11	--	40.83	46.00	5.17	
	741.980	13.88	19.98	3.78	--	37.64	46.00	8.36	
	1080.000	55.01	22.24	4.50	38.03	43.72	74.00	30.28	PK
	1170.000	52.30	23.38	4.51	37.83	42.36	74.00	31.64	
	1315.000	54.85	24.50	4.53	37.48	46.40	74.00	27.60	
	1465.000	49.43	26.11	4.55	37.06	43.03	74.00	30.97	
	1600.000	52.89	26.40	4.56	36.76	47.09	74.00	26.91	
	1670.000	51.13	26.62	4.57	36.63	45.69	74.00	28.31	
	1080.000	42.01	22.24	4.50	38.03	30.72	54.00	23.28	AV
	1170.000	39.30	23.38	4.51	37.83	29.36	54.00	24.64	
	1315.000	43.85	24.50	4.53	37.48	35.40	54.00	18.60	
	1465.000	38.43	26.11	4.55	37.06	32.03	54.00	21.97	
	1600.000	43.89	26.40	4.56	36.76	38.09	54.00	15.91	
	1670.000	35.13	26.62	4.57	36.63	29.69	54.00	24.31	

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242TA Humidity : 60%RH

Serial No. : E1202231-02/02 Date of Test : Mar 01, 2012

Test Mode : DVI 1920*1080@60Hz Adapter #3 : LCAP26-A

Panel #2 : LGM215AC01

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	70.740	19.21	9.93	1.43	--	30.57	40.00	9.43	QP
	208.480	26.92	10.15	2.46	--	39.53	43.50	3.97	
	288.990	24.29	13.39	2.72	--	40.40	46.00	5.60	
	446.130	22.69	16.92	3.11	--	42.72	46.00	3.28	
	594.540	15.97	18.17	3.45	--	37.59	46.00	8.41	
	741.980	16.18	19.98	3.78	--	39.94	46.00	6.06	
	1075.000	55.88	22.16	5.27	38.04	45.27	74.00	28.73	PK
	1250.000	50.46	24.05	5.42	37.65	42.28	74.00	31.72	
	1365.000	51.43	24.80	5.55	37.33	44.45	74.00	29.55	
	1465.000	46.20	26.11	5.72	37.06	40.97	74.00	33.03	
	1595.000	47.72	26.41	5.93	36.77	43.29	74.00	30.71	
	1760.000	50.18	26.96	6.17	36.49	46.82	74.00	27.18	
	1075.000	40.88	22.16	5.27	38.04	30.27	54.00	23.73	AV
	1250.000	32.46	24.05	5.42	37.65	24.28	54.00	29.72	
	1365.000	35.43	24.80	5.55	37.33	28.45	54.00	25.55	
	1465.000	33.20	26.11	5.72	37.06	27.97	54.00	26.03	
	1595.000	30.72	26.41	5.93	36.77	26.29	54.00	27.71	
	1760.000	30.18	26.96	6.17	36.49	26.82	54.00	27.18	

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242TA Humidity : 60%RH

Serial No. : E1202231-02/02 Date of Test : Mar 01, 2012

Test Mode : DVI 1920*1080@60Hz Adapter #3 : LCAP26-A

Panel #2 : LGM215AC01

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	43.580	17.01	10.86	0.89	--	28.76	40.00	11.24	QP
	82.380	20.44	10.67	1.63	--	32.74	40.00	7.26	
	213.330	20.41	10.33	2.47	--	33.21	43.50	10.29	
	353.980	17.03	15.25	2.89	--	35.17	46.00	10.83	
	528.580	16.10	17.77	3.33	--	37.20	46.00	8.80	
	594.540	16.67	18.17	3.45	--	38.29	46.00	7.71	
	1080.000	52.01	22.24	4.50	38.03	40.72	74.00	33.28	PK
	1170.000	58.30	23.38	4.51	37.83	48.36	74.00	25.64	
	1315.000	59.85	24.50	4.53	37.48	51.40	74.00	22.60	
	1465.000	47.43	26.11	4.55	37.06	41.03	74.00	32.97	
	1600.000	50.89	26.40	4.56	36.76	45.09	74.00	28.91	
	1760.000	52.67	26.96	4.58	36.49	47.72	74.00	26.28	
	1080.000	42.01	22.24	4.50	38.03	30.72	54.00	23.28	AV
	1170.000	45.30	23.38	4.51	37.83	35.36	54.00	18.64	
	1315.000	37.85	24.50	4.53	37.48	39.40	54.00	14.60	
	1465.000	34.43	26.11	4.55	37.06	28.03	54.00	25.97	
	1600.000	42.89	26.40	4.56	36.76	37.09	54.00	16.91	
	1760.000	37.67	26.96	4.58	36.49	32.72	54.00	21.28	

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242TA Humidity : 60%RH

Serial No. : E1202231-02/02 Date of Test : Mar 01, 2012

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

Panel #2 : LGM215AC01

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	33.880	13.58	16.26	0.83	--	30.67	40.00	9.33	QP
	72.680	13.88	10.08	1.47	--	25.43	40.00	14.57	
	208.480	21.30	10.15	2.46	--	33.91	43.50	9.59	
	288.990	19.49	13.39	2.72	--	35.60	46.00	10.40	
	322.940	17.12	14.34	2.82	--	34.28	46.00	11.72	
	741.980	11.41	19.98	3.78	--	35.17	46.00	10.83	
	1075.000	52.88	22.16	5.27	38.04	42.27	74.00	31.73	PK
	1250.000	47.46	24.05	5.42	37.65	39.28	74.00	34.72	
	1365.000	48.43	24.80	5.55	37.33	41.45	74.00	32.55	
	1465.000	43.20	26.11	5.72	37.06	37.97	74.00	36.03	
	1595.000	44.72	26.41	5.93	36.77	40.29	74.00	33.71	
	1760.000	41.18	26.96	6.17	36.49	37.82	74.00	36.18	
	1075.000	41.88	22.16	5.27	38.04	31.27	54.00	22.73	AV
	1250.000	29.46	24.05	5.42	37.65	21.28	54.00	32.72	
	1365.000	36.43	24.80	5.55	37.33	29.45	54.00	24.55	
	1465.000	30.20	26.11	5.72	37.06	24.97	54.00	29.03	
	1595.000	35.72	26.41	5.93	36.77	31.29	54.00	22.71	
	1760.000	31.18	26.96	6.17	36.49	27.82	54.00	26.18	

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : E2242TA Humidity : 60%RH

Serial No. : E1202231-02/02 Date of Test : Mar 01, 2012

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

Panel #2 : LGM215AC01

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	31.940	14.67	17.29	0.82	--	32.78	40.00	7.22	QP
	43.580	16.78	10.86	0.89	--	28.53	40.00	11.47	
	82.380	20.51	10.67	1.63	--	32.81	40.00	7.19	
	281.230	18.99	13.17	2.70	--	34.86	46.00	11.14	
	446.130	21.92	16.92	3.11	--	41.95	46.00	4.05	
	741.980	19.58	19.98	3.78	--	43.34	46.00	2.66	
	1080.000	44.24	22.24	5.27	38.03	33.72	74.00	40.28	PK
	1170.000	42.47	23.38	5.34	37.83	33.36	74.00	40.64	
	1315.000	40.87	24.50	5.51	37.48	33.40	74.00	40.60	
	1465.000	34.26	26.11	5.72	37.06	29.03	74.00	44.97	
	1600.000	42.52	26.40	5.93	36.76	38.09	74.00	35.91	
	1760.000	44.08	26.96	6.17	36.49	40.72	74.00	33.28	
	1080.000	34.24	22.24	5.27	38.03	23.72	54.00	30.28	AV
	1170.000	32.47	23.38	5.34	37.83	23.36	54.00	30.64	
	1315.000	34.87	24.50	5.51	37.48	27.40	54.00	26.60	
	1465.000	29.26	26.11	5.72	37.06	24.03	54.00	29.97	
	1600.000	22.52	26.40	5.93	36.76	18.09	54.00	35.91	
	1760.000	34.08	26.96	6.17	36.49	30.72	54.00	23.28	

TEST ENGINEER: RAVEN JIN

5 DEVIATION TO TEST SPECIFICATIONS

None.