

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

LCD Monitor

Model No.: E2341TX

Serial No.:010NDSKGT438

FCC ID : BEJE2341TX

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

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Report No. : ACI-F10162
Date of Test : Nov 18 – 19, 2010
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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. : E2341TX
(B) Serial No. : 010NDSKGT438
(C) Power Supply : 120V/60Hz

Test Procedure Used:

*FCC RULES AND REGULATIONS PART 15 SUBPART B CLASS B OCTOBER 2009
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: E2341TX; S/N: 010NDSKGT438) which was tested in 3m anechoic chamber Nov 18 – 19, 2010 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 : Nov 18 – 19, 2010 Date of Report : Nov 24, 2010

Producer : Kathy Wang
KATHY WANG / Assistant

Review : Dio Yang
DIO YANG / Deputy Assistant Manager

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

Signatory : Sammy Chen
Authorized Signature EMC SAMMY CHEN / 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 2009 AND ANSI C63.4-2003	15.107(a) Class B	Pass
Radiated Disturbance	FCC RULES AND REGULATIONS PART 15 SUBPART B OCTOBER 2009 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.	: E2341TX
Serial No.	: 010NDSKGT438
Real Power	: 29.50W
Applicant	: LG Electronics U.S.A., Inc. 1000 Sylvan Avenue, Englewood Cliffs, NJ 07632, United States
Manufacturer	: LG Electronics Nanjing Display Co., Ltd. No.346, Yao Xin Road, Economic & Technical Development Zone, Nanjing, China
LCD Panel	: Manufacturer: LG Display M/N : LM230WF5 (TL) (D1)
Max Resolution	: 1920*1080@60Hz
D-Sub Cable #1	: Shielded, Detachable, 1.85m, with two cores on cable
D-Sub Cable #2	: Shielded, Detachable, 1.85m, with two cores in connector
DVI Cable #1	: Shielded, Detachable, 1.85m, with two cores on cable
DVI Cable #2	: Shielded, Detachable, 1.85m, with two cores in connector
Power Cord	: Unshielded, Detachable, 1.80m
Note	: After evaluation, the D-Sub cable#1 and DVI cable#1 were used in the test for they will cause the maximum emission.

Remark:

The EUT is a LCD Monitor which input/output ports as follows:

- (1) One D-Sub Port : Connected with PC
- (2) One DVI Port : Connected with PC
- (3) One AC In Port : Connected with Power

2.2 Peripherals

2.2.1 PC #1

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 PC #2

Manufacturer : HP
Model Number : dx7400MT
Serial Number : CNG8130K89
Power Cord : Unshielded, Detachable, 1.8m
Certificate : FCC DoC; CE/EMC; VCCI; C-Tick; UL
BSMI (R33001) 3C (A000111)
MIC (E-A011-04-2659(B))

2.2.3 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 : KU-0459
Serial Number : 7691402450604
Data Cable : Shielded, Undetachable, 1.8m
Certificate : CE/EMC, FCC DoC, VCCI, MIC,
C-Tick, BSMI

2.2.5 Mouse

Manufacturer : DELL
Model Number : MO56UO
Serial Number : 443048231
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

Note: PC #1 was used in Conducted Emission Test while PC #2 was used in Radiated Emission Test.

2.3 Description of Test Facility

Site Description (Semi-Anechoic Chamber) : Sept. 17, 1998 file on
Apr 29, 2009 Renewed
Federal Communications Commission
FCC Engineering Laboratory
7435 Oakland Mills Road
Columbia, MD 21046, USA

Name of Firm : Audix Technology (Shanghai) Co., Ltd.

Site Location : 3F 34Bldg 680 Guiping Rd,
Caohejing Hi-Tech Park,
Shanghai 200233, China

NVLAP Lab Code : 200371-0

2.4 Measurement Uncertainty

Conducted Emission Expanded Uncertainty: U = 1.26 dB
Radiated Emission Expanded Uncertainty : U = 3.02 dB

3 CONDUCTED EMISSION TEST

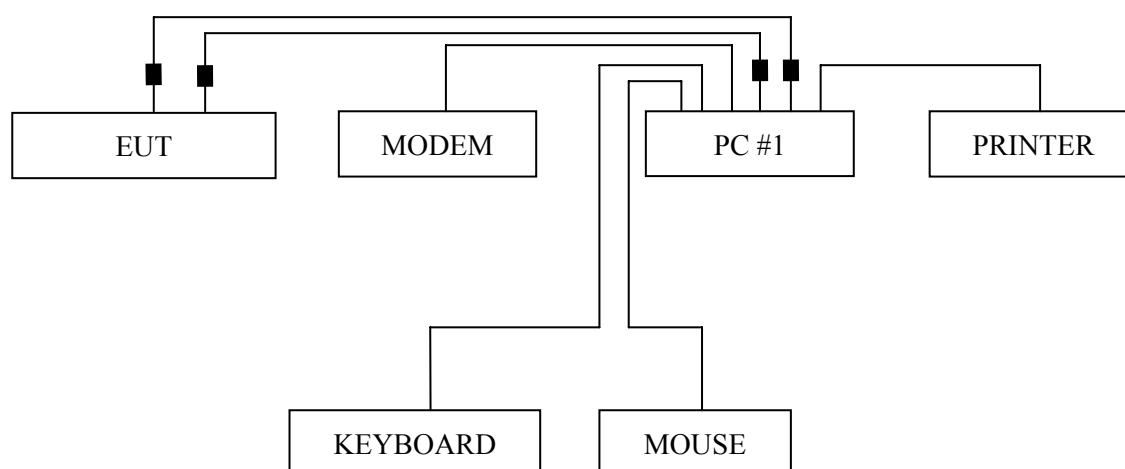
3.1 Test Equipment

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	Oct 15, 2010	Oct 15, 2011
2.	Artificial Mains Network (AMN)	R&S	ESH2-Z5	843890/011	Apr 02, 2010	Apr 02, 2011
3.	Line Impedance Stabilization Network (LISN)	Kyoritsu	KNW-407	8-1280-4	Apr 02, 2010	Apr 02, 2011
4.	50 Ω Coaxial Switch	Anritsu	MP59B	6200426389	Sep 19, 2010	Mar 19, 2011
5.	50 Ω Terminator	Anritsu	BNC	001	Apr 02, 2010	Apr 02, 2011
6.	Software	Audix	E3	SET00200 9804M592	--	--

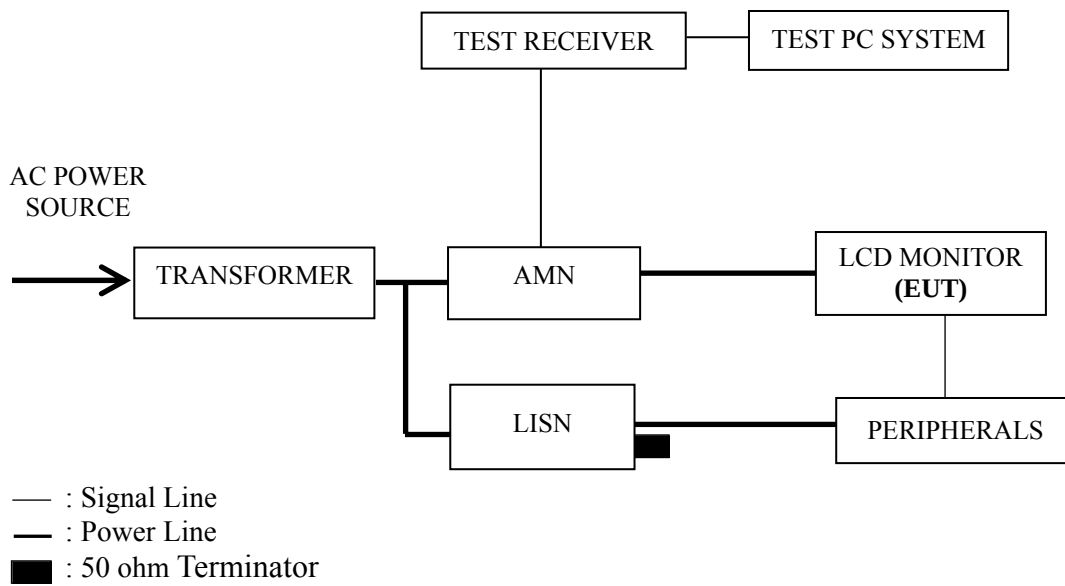
3.2 Block Diagram of Test Setup

3.2.1 EUT & Peripherals



■ : Ferrite core

3.2.2 Conducted Disturbance Test Setup



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

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

3.4 Test Configuration

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

3.5 Operating Condition of EUT

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

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

3.5.3 Set the contrast & brightness of EUT to maximum.

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

Test Mode
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

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.

Test Mode	Page
D-Sub 640*480@60Hz	P12
D-Sub 1280*1024@75Hz	P13
D-Sub 1680*1050@60Hz	P14
D-Sub 1920*1080@60Hz	P15
DVI 640*480@60Hz	P16
DVI 1280*1024@75Hz	P17
DVI 1680*1050@60Hz	P18
DVI 1920*1080@60Hz	P19

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 1680*1050@60Hz test mode. The worst emission is detected at 2.962 MHz (Quasi-Peak Value) with corrected signal level of 40.46 dB (μV) (limit is 56.00 dB (μV)), when the Line of the EUT is connected to AMN.

EUT : LCD Monitor Temperature : 22°C

Model No. : E2341TX Humidity : 48%RH

Serial No. : 010NDSKGT438 Date of Test : Nov 19, 2010

Test Mode : D-Sub 640*480@60Hz

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.204	43.66	0.39	44.05	63.45	19.40	QP
	0.402	39.13	0.48	39.61	57.81	18.20	
	0.804	32.50	0.53	33.03	56.00	22.97	
	2.809	37.42	0.68	38.10	56.00	17.90	
	7.329	35.68	0.92	36.60	60.00	23.40	
	25.055	37.04	1.80	38.84	60.00	21.16	
	0.204	33.26	0.39	33.65	53.45	19.80	AV
	0.402	28.15	0.48	28.63	47.81	19.18	
	0.804	22.15	0.53	22.68	46.00	23.32	
	2.809	24.57	0.68	25.25	46.00	20.75	
	7.329	24.14	0.92	25.06	50.00	24.94	
	25.055	24.15	1.80	25.95	50.00	24.05	
Neutral	0.199	43.54	0.30	43.84	63.67	19.83	QP
	0.406	39.09	0.44	39.53	57.73	18.20	
	0.604	30.87	0.49	31.36	56.00	24.64	
	3.140	32.20	0.66	32.86	56.00	23.14	
	9.204	32.13	0.98	33.11	60.00	26.89	
	25.591	38.17	1.87	40.04	60.00	19.96	
	0.199	33.26	0.30	33.56	53.67	20.11	AV
	0.406	25.14	0.44	25.58	47.73	22.15	
	0.604	20.14	0.49	20.63	46.00	25.37	
	3.140	22.36	0.66	23.02	46.00	22.98	
	9.204	22.35	0.98	23.33	50.00	26.67	
	25.591	28.15	1.87	30.02	50.00	19.98	

TEST ENGINEER: WENCY YANG

EUT : LCD Monitor Temperature : 22°C

Model No. : E2341TX Humidity : 48%RH

Serial No. : 010NDSKGT438 Date of Test : Nov 19, 2010

Test Mode : D-Sub 1280*1024@75Hz

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.199	44.16	0.38	44.54	63.67	19.13	QP
	0.402	39.00	0.48	39.48	57.81	18.33	
	0.804	32.87	0.53	33.40	56.00	22.60	
	2.962	36.97	0.70	37.67	56.00	18.33	
	7.769	35.66	0.95	36.61	60.00	23.39	
	26.139	37.81	1.83	39.64	60.00	20.36	
	0.199	32.51	0.38	32.89	53.67	20.78	AV
	0.402	28.15	0.48	28.63	47.81	19.18	
	0.804	22.36	0.53	22.89	46.00	23.11	
	2.962	26.34	0.70	27.04	46.00	18.96	
	7.769	25.35	0.95	26.30	50.00	23.70	
	26.139	25.16	1.83	26.99	50.00	23.01	
Neutral	0.200	43.42	0.30	43.72	63.62	19.90	QP
	0.406	39.46	0.44	39.90	57.73	17.83	
	0.604	29.87	0.49	30.36	56.00	25.64	
	3.140	32.11	0.66	32.77	56.00	23.23	
	9.204	31.97	0.98	32.95	60.00	27.05	
	25.321	37.78	1.87	39.65	60.00	20.35	
	0.200	33.25	0.30	33.55	53.62	20.07	AV
	0.406	25.15	0.44	25.59	47.73	22.14	
	0.604	16.64	0.49	17.13	46.00	28.87	
	3.140	22.35	0.66	23.01	46.00	22.99	
	9.204	21.36	0.98	22.34	50.00	27.66	
	25.321	21.58	1.87	23.45	50.00	26.55	

TEST ENGINEER: WENCY YANG

EUT : LCD Monitor Temperature : 22°C

Model No. : E2341TX Humidity : 48%RH

Serial No. : 010NDSKGT438 Date of Test : Nov 19, 2010

Test Mode : D-Sub 1680*1050@60Hz

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.200	42.62	0.38	43.00	63.62	20.62	QP
	0.402	38.90	0.48	39.38	57.81	18.43	
	0.604	32.08	0.52	32.60	56.00	23.40	
	3.173	37.83	0.71	38.54	56.00	17.46	
	7.329	35.60	0.92	36.52	60.00	23.48	
	25.591	37.86	1.81	39.67	60.00	20.33	
	0.200	30.26	0.38	30.64	53.62	22.98	AV
	0.402	28.15	0.48	28.63	47.81	19.18	
	0.604	22.15	0.52	22.67	46.00	23.33	
	3.173	24.57	0.71	25.28	46.00	20.72	
	7.329	25.13	0.92	26.05	50.00	23.95	
	25.591	27.18	1.81	28.99	50.00	21.01	
Neutral	0.204	43.50	0.31	43.81	63.45	19.64	QP
	0.424	38.59	0.45	39.04	57.37	18.33	
	0.654	30.66	0.49	31.15	56.00	24.85	
	3.584	31.57	0.68	32.25	56.00	23.75	
	8.412	30.48	0.95	31.43	60.00	28.57	
	30.000	33.41	1.93	35.34	60.00	24.66	
	0.204	33.25	0.31	33.56	53.45	19.89	AV
	0.424	28.45	0.45	28.90	47.37	18.47	
	0.654	20.35	0.49	20.84	46.00	25.16	
	3.584	20.35	0.68	21.03	46.00	24.97	
	8.412	20.33	0.95	21.28	50.00	28.72	
	30.000	23.47	1.93	25.40	50.00	24.60	

TEST ENGINEER: WENCY YANG

EUT : LCD Monitor Temperature : 22°C

Model No. : E2341TX Humidity : 48%RH

Serial No. : 010NDSKGT438 Date of Test : Nov 19, 2010

Test Mode : D-Sub 1920*1080@60Hz

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.200	42.80	0.38	43.18	63.62	20.44	QP
	0.402	38.91	0.48	39.39	57.81	18.42	
	0.804	32.60	0.53	33.13	56.00	22.87	
	3.140	37.74	0.70	38.44	56.00	17.56	
	7.175	35.54	0.90	36.44	60.00	23.56	
	25.591	37.73	1.81	39.54	60.00	20.46	
	0.200	30.25	0.38	30.63	53.62	22.99	AV
	0.402	28.15	0.48	28.63	47.81	19.18	
	0.804	22.34	0.53	22.87	46.00	23.13	
	3.140	27.14	0.70	27.84	46.00	18.16	
	7.175	25.14	0.90	26.04	50.00	23.96	
	25.591	24.15	1.81	25.96	50.00	24.04	
Neutral	0.202	44.48	0.30	44.78	63.54	18.76	QP
	0.402	38.62	0.44	39.06	57.81	18.75	
	1.223	31.20	0.52	31.72	56.00	24.28	
	3.041	31.41	0.66	32.07	56.00	23.93	
	9.302	32.25	0.99	33.24	60.00	26.76	
	25.321	38.57	1.87	40.44	60.00	19.56	
	0.202	30.25	0.30	30.55	53.54	22.99	AV
	0.402	28.15	0.44	28.59	47.81	19.22	
	1.223	20.35	0.52	20.87	46.00	25.13	
	3.041	21.23	0.66	21.89	46.00	24.11	
	9.302	22.15	0.99	23.14	50.00	26.86	
	25.321	28.14	1.87	30.01	50.00	19.99	

TEST ENGINEER: WENCY YANG

EUT : LCD Monitor Temperature : 22°C

Model No. : E2341TX Humidity : 48%RH

Serial No. : 010NDSKGT438 Date of Test : Nov 19, 2010

Test Mode : DVI 640*480@60Hz

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.200	47.20	0.38	47.58	63.62	16.04	QP
	0.402	40.20	0.48	40.68	57.81	17.13	
	0.804	32.74	0.53	33.27	56.00	22.73	
	2.765	36.92	0.68	37.60	56.00	18.40	
	7.446	36.03	0.92	36.95	60.00	23.05	
	25.321	36.80	1.80	38.60	60.00	21.40	
	0.200	32.15	0.38	32.53	53.62	21.09	AV
	0.402	28.26	0.48	28.74	47.81	19.07	
	0.804	22.15	0.53	22.68	46.00	23.32	
	2.765	26.15	0.68	26.83	46.00	19.17	
	7.446	26.50	0.92	27.42	50.00	22.58	
	25.321	23.16	1.80	24.96	50.00	25.04	
Neutral	0.202	46.74	0.30	47.04	63.54	16.50	QP
	0.402	40.10	0.44	40.54	57.81	17.27	
	0.604	29.75	0.49	30.24	56.00	25.76	
	3.173	32.73	0.66	33.39	56.00	22.61	
	9.204	32.46	0.98	33.44	60.00	26.56	
	25.321	36.82	1.87	38.69	60.00	21.31	
	0.202	32.15	0.30	32.45	53.54	21.09	AV
	0.402	20.15	0.44	20.59	47.81	27.22	
	0.604	15.48	0.49	15.97	46.00	30.03	
	3.173	22.36	0.66	23.02	46.00	22.98	
	9.204	22.35	0.98	23.33	50.00	26.67	
	25.321	23.64	1.87	25.51	50.00	24.49	

TEST ENGINEER: WENCY YANG

EUT : LCD Monitor Temperature : 22°C

Model No. : E2341TX Humidity : 48%RH

Serial No. : 010NDSKGT438 Date of Test : Nov 19, 2010

Test Mode : DVI 1280*1024@75Hz

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.202	44.70	0.38	45.08	63.54	18.46	QP
	0.406	38.85	0.48	39.33	57.73	18.40	
	0.804	32.41	0.53	32.94	56.00	23.06	
	3.140	39.18	0.70	39.88	56.00	16.12	
	7.687	35.46	0.93	36.39	60.00	23.61	
	26.139	38.14	1.83	39.97	60.00	20.03	
	0.202	31.25	0.38	31.63	53.54	21.91	AV
	0.406	28.54	0.48	29.02	47.73	18.71	
	0.804	22.34	0.53	22.87	46.00	23.13	
	3.140	23.45	0.70	24.15	46.00	21.85	
	7.687	25.18	0.93	26.11	50.00	23.89	
	26.139	28.14	1.83	29.97	50.00	20.03	
Neutral	0.200	44.33	0.30	44.63	63.62	18.99	QP
	0.402	38.77	0.44	39.21	57.81	18.60	
	0.604	30.33	0.49	30.82	56.00	25.18	
	3.107	31.08	0.66	31.74	56.00	24.26	
	9.204	32.06	0.98	33.04	60.00	26.96	
	25.321	37.50	1.87	39.37	60.00	20.63	
	0.200	30.25	0.30	30.55	53.62	23.07	AV
	0.402	28.15	0.44	28.59	47.81	19.22	
	0.604	20.34	0.49	20.83	46.00	25.17	
	3.107	21.14	0.66	21.80	46.00	24.20	
	9.204	22.15	0.98	23.13	50.00	26.87	
	25.321	24.57	1.87	26.44	50.00	23.56	

TEST ENGINEER: WENCY YANG

EUT : LCD Monitor Temperature : 22°C

Model No. : E2341TX Humidity : 48%RH

Serial No. : 010NDSKGT438 Date of Test : Nov 19, 2010

Test Mode : DVI 1680*1050@60Hz

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.202	45.95	0.38	46.33	63.54	17.21	QP
	0.402	40.12	0.48	40.60	57.81	17.21	
	1.160	31.99	0.55	32.54	56.00	23.46	
	2.962	39.76	0.70	40.46	56.00	15.54	
	7.852	36.66	0.95	37.61	60.00	22.39	
	26.139	37.33	1.83	39.16	60.00	20.84	
	0.202	35.26	0.38	35.64	53.54	17.90	AV
	0.402	30.26	0.48	30.74	47.81	17.07	
	1.160	21.37	0.55	21.92	46.00	24.08	
	2.962	28.14	0.70	28.84	46.00	17.16	
	7.852	25.17	0.95	26.12	50.00	23.88	
	26.139	24.14	1.83	25.97	50.00	24.03	
Neutral	0.202	43.62	0.30	43.92	63.54	19.62	QP
	0.402	38.71	0.44	39.15	57.81	18.66	
	0.604	30.43	0.49	30.92	56.00	25.08	
	3.140	30.18	0.66	30.84	56.00	25.16	
	9.352	32.10	0.99	33.09	60.00	26.91	
	25.321	38.20	1.87	40.07	60.00	19.93	
	0.202	33.25	0.30	33.55	53.54	19.99	AV
	0.402	28.15	0.44	28.59	47.81	19.22	
	0.604	20.14	0.49	20.63	46.00	25.37	
	3.140	20.54	0.66	21.20	46.00	24.80	
	9.352	22.15	0.99	23.14	50.00	26.86	
	25.321	25.17	1.87	27.04	50.00	22.96	

TEST ENGINEER: WENCY YANG

EUT : LCD Monitor Temperature : 22°C

Model No. : E2341TX Humidity : 48%RH

Serial No. : 010NDSKGT438 Date of Test : Nov 19, 2010

Test Mode : DVI 1920*1080@60Hz

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.200	43.69	0.38	44.07	63.62	19.55	QP
	0.406	38.90	0.48	39.38	57.73	18.35	
	0.804	32.34	0.53	32.87	56.00	23.13	
	3.074	37.78	0.70	38.48	56.00	17.52	
	7.329	36.27	0.92	37.19	60.00	22.81	
	26.139	37.77	1.83	39.60	60.00	20.40	
	0.200	33.25	0.38	33.63	53.62	19.99	AV
	0.406	25.48	0.48	25.96	47.73	21.77	
	0.804	22.65	0.53	23.18	46.00	22.82	
	3.074	24.51	0.70	25.21	46.00	20.79	
	7.329	23.63	0.92	24.55	50.00	25.45	
	26.139	24.15	1.83	25.98	50.00	24.02	
Neutral	0.202	44.36	0.30	44.66	63.54	18.88	QP
	0.402	38.63	0.44	39.07	57.81	18.74	
	0.604	31.23	0.49	31.72	56.00	24.28	
	3.074	32.90	0.66	33.56	56.00	22.44	
	9.204	31.83	0.98	32.81	60.00	27.19	
	26.139	37.42	1.89	39.31	60.00	20.69	
	0.202	32.15	0.30	32.45	53.54	21.09	AV
	0.402	28.15	0.44	28.59	47.81	19.22	
	0.604	21.35	0.49	21.84	46.00	24.16	
	3.074	22.36	0.66	23.02	46.00	22.98	
	9.204	21.51	0.98	22.49	50.00	27.51	
	26.139	24.57	1.89	26.46	50.00	23.54	

TEST ENGINEER: WENCY YANG

4 RADIATED EMISSION TEST

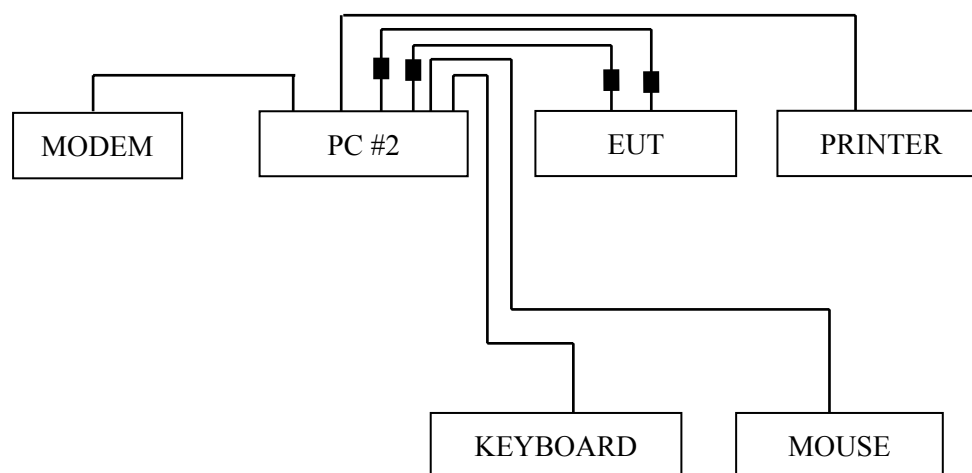
4.1 Test Equipment

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 07, 2010	Mar 07, 2011
2.	Preamplifier	Agilent	8447D	2944A10548	Sep 19, 2010	Mar 19, 2011
3.	Preamplifier	HP	8449B	3008A00864	Apr 29, 2010	Apr 29, 2011
4.	Bi-log Antenna	TESEQ	CBL6112D	23192	Dec 01, 2009	Dec 01, 2010
5.	Spectrum	Agilent	E7405A	MY45106600	May 19, 2010	May 19, 2011
6.	Software	Audix	E3	SET00200 9912M295-2	--	--

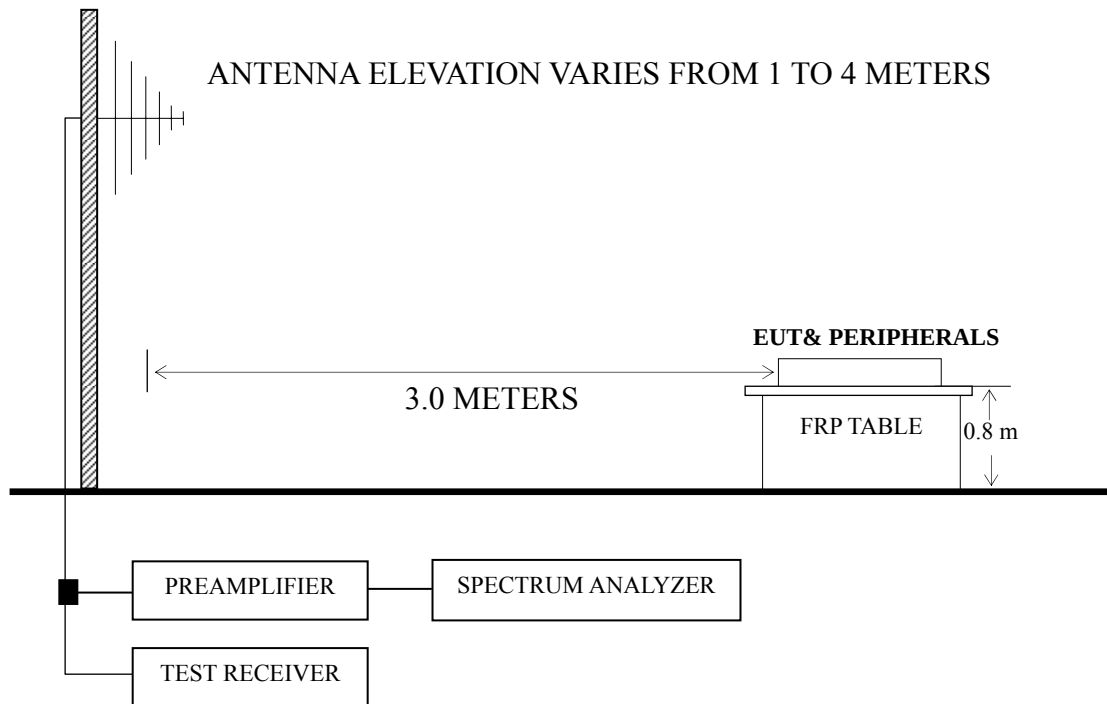
4.2 Block Diagram of Test Setup

4.2.1 EUT and Peripherals



■: Ferrite core

4.2.2 Radiated emission test setup



■ : 50 ohm Coaxial Switch

4.3 Radiated Emission Limit [FCC Part 15 Subpart B 15.109(a)]

Frequency (MHz)	Distance (m)	Field strength limits	
		($\mu\text{V/m}$)	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) 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.

Test Mode	Page
D-Sub 640*480@60Hz	P24
D-Sub 1280*1024@75Hz	P25 – P26
D-Sub 1680*1050@60Hz	P27 – P28
D-Sub 1920*1080@60Hz	P29 – P30
DVI 640*480@60Hz	P31
DVI 1280*1024@75Hz	P32 – P33
DVI 1680*1050@60Hz	P34 – P35
DVI 1920*1080@60Hz	P36 – P37

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 and Average values above 1GHz.

NOTE 5 – The emission levels that are 20dB below the official limit are not reported.

NOTE 6 – 0° was the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.

NOTE 7 – The worst case is for DVI 1280*1024@75Hz test mode. The worst emission at horizontal polarization was detected at 141.550 MHz with corrected signal level of 35.09 dB (μV/m) (limit is 43.50dB (μV/m)), when the antenna was 1.00 m height and the turntable was at 300°. The worst emission at vertical polarization was detected at 41.640 MHz with corrected signal level of 37.66 dB (μV/m) (limit is 40.00 dB (μV/m)), when the antenna was 1.00 m height and the turntable was at 80°.

EUT : LCD Monitor Temperature : 22°C

Model No. : E2341TX Humidity : 60%RH

Serial No. : 010NDSKGT438 Date of Test : Nov 18, 2010

Test Mode : D-Sub 640*480@60Hz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)
Horizontal	31.940	17.43	18.49	0.65	36.57	40.00	3.43
	41.640	23.31	13.02	0.73	37.06	40.00	2.94
	131.850	24.83	12.42	1.18	38.43	43.50	5.07
	260.860	22.49	13.13	1.64	37.26	46.00	8.74
	796.400	19.40	20.67	2.89	42.96	46.00	3.04
	848.680	19.12	21.20	2.95	43.27	46.00	2.73
Vertical	32.910	11.25	17.95	0.66	29.86	40.00	10.14
	55.220	20.72	7.69	0.81	29.22	40.00	10.78
	121.180	23.18	12.95	1.13	37.26	43.50	6.24
	144.000	26.70	11.76	1.22	39.68	43.50	3.82
	216.240	26.96	11.43	1.50	39.89	46.00	6.11
	623.640	10.79	19.33	2.50	32.62	46.00	13.38

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : E2341TX Humidity : 60%RH

Serial No. : 010NDSKGT438 Date of Test : Nov 18, 2010

Test Mode : D-Sub 1280*1024@75Hz

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	33.880	1.62	17.44	0.67	--	19.73	40.00	20.27	QP
	74.620	14.45	7.11	0.92	--	22.48	40.00	17.52	
	131.850	25.17	12.42	1.18	--	38.77	43.50	4.73	
	207.510	25.92	11.05	1.47	--	38.44	43.50	5.06	
	332.640	20.99	14.82	1.87		37.68	46.00	8.32	
	775.930	11.41	20.49	2.85	--	34.75	46.00	11.25	
	1013.000	54.19	22.49	4.49	37.38	43.79	74.00	30.21	PK
	1201.000	52.87	23.74	4.51	37.00	44.12	74.00	29.88	
	1334.000	52.86	24.78	4.53	36.71	45.46	74.00	28.54	
	1467.000	52.89	25.60	4.55	36.36	46.68	74.00	27.32	
	1716.000	52.00	26.71	4.57	35.92	47.36	74.00	26.64	
	1944.000	49.18	27.76	4.75	35.65	46.04	74.00	27.96	
	1013.000	40.19	22.49	4.49	37.38	29.79	54.00	24.21	AV
	1201.000	37.87	23.74	4.51	37.00	29.12	54.00	24.88	
	1334.000	36.86	24.78	4.53	36.71	29.46	54.00	24.54	
	1467.000	38.89	25.60	4.55	36.36	32.68	54.00	21.32	
	1716.000	39.00	26.71	4.57	35.92	34.36	54.00	19.64	
	1944.000	34.18	27.76	4.75	35.65	31.04	54.00	22.96	

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : E2341TX Humidity : 60%RH

Serial No. : 010NDSKGT438 Date of Test : Nov 18, 2010

Test Mode : D-Sub 1280*1024@75Hz

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	15.96	17.95	0.66	--	34.57	40.00	5.43	QP
	42.610	23.97	12.39	0.74	--	37.10	40.00	2.90	
	119.240	24.95	12.97	1.12	--	39.04	43.50	4.46	
	202.660	23.09	10.81	1.46	--	35.36	43.50	8.14	
	324.880	26.81	14.58	1.84	--	43.23	46.00	2.77	
	840.920	19.08	21.12	2.95	--	43.15	46.00	2.85	
	1044.000	56.62	22.69	4.49	37.32	46.48	74.00	27.52	PK
	1200.000	55.51	23.70	4.51	37.00	46.72	74.00	27.28	
	1286.000	50.80	24.40	4.53	36.82	42.91	74.00	31.09	
	1600.000	53.50	26.40	4.56	36.10	48.36	74.00	25.64	
	1799.000	50.35	26.90	4.58	35.81	46.02	74.00	27.98	
	1997.000	48.35	28.10	4.78	35.61	45.62	74.00	28.38	
	1044.000	46.62	22.69	4.49	37.32	36.48	54.00	17.52	AV
	1200.000	40.51	23.70	4.51	37.00	31.72	54.00	22.28	
	1286.000	35.80	24.40	4.53	36.82	27.91	54.00	26.09	
	1600.000	37.50	26.40	4.56	36.10	32.36	54.00	21.64	
	1799.000	39.35	26.90	4.58	35.81	35.02	54.00	18.98	
	1997.000	35.35	28.10	4.78	35.61	32.62	54.00	21.38	

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : E2341TX Humidity : 60%RH

Serial No. : 010NDSKGT438 Date of Test : Nov 18, 2010

Test Mode : D-Sub 1680*1050@60Hz

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	41.640	7.10	13.02	0.73	--	20.85	40.00	19.15	QP
	67.830	15.37	6.52	0.88	--	22.77	40.00	17.23	
	140.580	25.49	12.05	1.21	--	38.75	43.50	4.75	
	210.420	25.50	11.18	1.48	--	38.16	43.50	5.34	
	335.550	17.83	14.90	1.88	--	34.61	46.00	11.39	
	805.030	11.03	20.73	2.90	--	34.66	46.00	11.34	
	1053.000	53.63	22.76	4.49	37.30	43.58	74.00	30.42	PK
	1201.000	53.87	23.74	4.51	37.00	45.12	74.00	28.88	
	1334.000	53.86	24.78	4.53	36.71	46.46	74.00	27.54	
	1467.000	51.89	25.60	4.55	36.36	45.68	74.00	28.32	
	1600.000	53.16	26.40	4.56	36.10	48.02	74.00	25.98	
	1716.000	51.00	26.71	4.57	35.92	46.36	74.00	27.64	
	1053.000	46.63	22.76	4.49	37.30	36.58	54.00	17.42	AV
	1201.000	37.87	23.74	4.51	37.00	29.12	54.00	24.88	
	1334.000	39.86	24.78	4.53	36.71	32.46	54.00	21.54	
	1467.000	36.89	25.60	4.55	36.36	30.68	54.00	23.32	
	1600.000	42.16	26.40	4.56	36.10	37.02	54.00	16.98	
	1716.000	38.00	26.71	4.57	35.92	33.36	54.00	20.64	

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : E2341TX Humidity : 60%RH

Serial No. : 010NDSKGT438 Date of Test : Nov 18, 2010

Test Mode : D-Sub 1680*1050@60Hz

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	17.21	17.95	0.66	--	35.82	40.00	4.18	QP
	119.240	24.97	12.97	1.12	--	39.06	43.50	4.44	
	205.570	25.28	10.93	1.47	--	37.68	43.50	5.82	
	334.580	20.33	14.86	1.87	--	37.06	46.00	8.94	
	526.640	8.96	18.24	2.32	--	29.52	46.00	16.48	
	804.060	19.50	20.73	2.90	--	43.13	46.00	2.87	
	1078.000	52.01	22.95	4.50	37.25	42.21	74.00	31.79	PK
	1200.000	54.51	23.70	4.51	37.00	45.72	74.00	28.28	
	1396.000	49.57	25.16	4.54	36.55	42.72	74.00	31.28	
	1498.000	52.44	25.80	4.55	36.30	46.49	74.00	27.51	
	1600.000	51.50	26.40	4.56	36.10	46.36	74.00	27.64	
	1798.000	47.23	26.90	4.58	35.81	42.90	74.00	31.10	
	1078.000	44.01	22.95	4.50	37.25	34.21	54.00	19.79	AV
	1200.000	40.51	23.70	4.51	37.00	31.72	54.00	22.28	
	1396.000	34.57	25.16	4.54	36.55	27.72	54.00	26.28	
	1498.000	38.44	25.80	4.55	36.30	32.49	54.00	21.51	
	1600.000	41.50	26.40	4.56	36.10	36.36	54.00	17.64	
	1798.000	35.23	26.90	4.58	35.81	30.90	54.00	23.10	

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : E2341TX Humidity : 60%RH

Serial No. : 010NDSKGT438 Date of Test : Nov 18, 2010

Test Mode : D-Sub 1920*1080@60Hz

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	30.970	0.64	19.03	0.64	--	20.31	40.00	19.69	QP
	83.350	10.10	8.30	0.96	--	19.36	40.00	20.64	
	141.550	22.51	12.01	1.21	--	35.73	43.50	7.77	
	207.510	26.53	11.05	1.47	--	39.05	43.50	4.45	
	336.520	16.62	14.94	1.88	--	33.44	46.00	12.56	
	830.250	13.48	21.01	2.93	--	37.42	46.00	8.58	
	1041.000	53.32	22.69	4.49	37.33	43.17	74.00	30.83	PK
	1101.000	52.11	23.11	4.50	37.20	42.52	74.00	31.48	
	1201.000	52.87	23.74	4.51	37.00	44.12	74.00	29.88	
	1334.000	52.86	24.78	4.53	36.71	45.46	74.00	28.54	
	1467.000	52.89	25.60	4.55	36.36	46.68	74.00	27.32	
	1600.000	54.16	26.40	4.56	36.10	49.02	74.00	24.98	
	1041.000	46.32	22.69	4.49	37.33	36.17	54.00	17.83	AV
	1101.000	39.11	23.11	4.50	37.20	29.52	54.00	24.48	
	1201.000	38.87	23.74	4.51	37.00	30.12	54.00	23.88	
	1334.000	38.86	24.78	4.53	36.71	31.46	54.00	22.54	
	1467.000	42.89	25.60	4.55	36.36	36.68	54.00	17.32	
	1600.000	43.16	26.40	4.56	36.10	38.02	54.00	15.98	

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : E2341TX Humidity : 60%RH

Serial No. : 010NDSKGT438 Date of Test : Nov 18, 2010

Test Mode : D-Sub 1920*1080@60Hz

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	17.75	17.95	0.66	--	36.36	40.00	3.64	QP
	63.950	18.07	6.56	0.86	--	25.49	40.00	14.51	
	120.210	24.64	12.98	1.13	--	38.75	43.50	4.75	
	209.450	23.39	11.13	1.48	--	36.00	43.50	7.50	
	400.540	16.62	16.50	2.06	--	35.18	46.00	10.82	
	828.310	19.06	20.98	2.93	--	42.97	46.00	3.03	
	1031.000	49.82	22.60	4.49	37.34	39.57	74.00	34.43	PK
	1125.000	49.35	23.27	4.50	37.16	39.96	74.00	34.04	
	1286.000	47.80	24.40	4.53	36.82	39.91	74.00	34.09	
	1396.000	46.57	25.16	4.54	36.55	39.72	74.00	34.28	
	1498.000	51.44	25.80	4.55	36.30	45.49	74.00	28.51	
	1600.000	50.50	26.40	4.56	36.10	45.36	74.00	28.64	
	1031.000	43.82	22.60	4.49	37.34	33.57	54.00	20.43	AV
	1125.000	34.35	23.27	4.50	37.16	24.96	54.00	29.04	
	1286.000	35.80	24.40	4.53	36.82	27.91	54.00	26.09	
	1396.000	32.57	25.16	4.54	36.55	25.72	54.00	28.28	
	1498.000	44.44	25.80	4.55	36.30	38.49	54.00	15.51	
	1600.000	39.50	26.40	4.56	36.10	34.36	54.00	19.64	

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : E2341TX Humidity : 60%RH

Serial No. : 010NDSKGT438 Date of Test : Nov 18, 2010

Test Mode : DVI 640*480@60Hz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)
Horizontal	31.940	1.70	18.49	0.65	20.84	40.00	19.16
	66.860	13.65	6.53	0.88	21.06	40.00	18.94
	132.820	23.18	12.40	1.18	36.76	43.50	6.74
	257.950	21.59	13.06	1.62	36.27	46.00	9.73
	400.540	11.39	16.50	2.06	29.95	46.00	16.05
	944.710	15.26	22.02	3.58	40.86	46.00	5.14
Vertical	32.910	16.06	17.95	0.66	34.67	40.00	5.33
	62.980	18.29	6.57	0.86	25.72	40.00	14.28
	133.790	23.86	12.35	1.18	37.39	43.50	6.11
	188.110	26.27	10.20	1.41	37.88	43.50	5.62
	400.540	15.65	16.50	2.06	34.21	46.00	11.79
	841.890	18.91	21.12	2.95	42.98	46.00	3.02

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : E2341TX Humidity : 60%RH

Serial No. : 010NDSKGT438 Date of Test : Nov 18, 2010

Test Mode : DVI 1280*1024@75Hz

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	40.670	5.73	13.62	0.72	--	20.07	40.00	19.93	QP
	70.740	12.74	6.58	0.90	--	20.22	40.00	19.78	
	141.550	21.87	12.01	1.21	--	35.09	43.50	8.41	
	289.960	21.66	13.73	1.73	--	37.12	46.00	8.88	
	457.770	10.79	17.35	2.18	--	30.32	46.00	15.68	
	799.210	13.45	20.70	2.89	--	37.04	46.00	8.96	
	1053.000	53.63	22.76	4.49	37.30	43.58	74.00	30.42	PK
	1264.000	51.32	24.23	4.52	36.86	43.21	74.00	30.79	
	1467.000	50.89	25.60	4.55	36.36	44.68	74.00	29.32	
	1600.000	53.16	26.40	4.56	36.10	48.02	74.00	25.98	
	1797.000	49.70	26.90	4.58	35.81	45.37	74.00	28.63	
	1989.000	47.02	28.05	4.78	35.61	44.24	74.00	29.76	
	1053.000	38.63	22.76	4.49	37.30	28.58	54.00	25.42	AV
	1264.000	39.32	24.23	4.52	36.86	31.21	54.00	22.79	
	1467.000	34.89	25.60	4.55	36.36	28.68	54.00	25.32	
	1600.000	37.16	26.40	4.56	36.10	32.02	54.00	21.98	
	1797.000	36.70	26.90	4.58	35.81	32.37	54.00	21.63	
	1989.000	30.02	28.05	4.78	35.61	27.24	54.00	26.76	

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : E2341TX Humidity : 60%RH

Serial No. : 010NDSKGT438 Date of Test : Nov 18, 2010

Test Mode : DVI 1280*1024@75Hz

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	15.90	17.95	0.66	--	34.51	40.00	5.49	QP
	41.640	23.91	13.02	0.73	--	37.66	40.00	2.34	
	91.110	15.78	9.65	1.00	--	26.43	43.50	17.07	
	140.580	25.53	12.05	1.21	--	38.79	43.50	4.71	
	344.280	14.99	15.16	1.90	--	32.05	46.00	13.95	
	845.770	19.28	21.16	2.95	--	43.39	46.00	2.61	
	1017.000	51.51	22.51	4.49	37.37	41.14	74.00	32.86	PK
	1200.000	54.51	23.70	4.51	37.00	45.72	74.00	28.28	
	1600.000	50.50	26.40	4.56	36.10	45.36	74.00	28.64	
	1676.000	50.05	26.59	4.57	35.97	45.24	74.00	28.76	
	1799.000	49.35	26.90	4.58	35.81	45.02	74.00	28.98	
	1944.000	46.35	27.76	4.75	35.65	43.21	74.00	30.79	
	1017.000	31.51	22.51	4.49	37.37	21.14	54.00	32.86	AV
	1200.000	33.51	23.70	4.51	37.00	24.72	54.00	29.28	
	1600.000	35.50	26.40	4.56	36.10	30.36	54.00	23.64	
	1676.000	36.05	26.59	4.57	35.97	31.24	54.00	22.76	
	1799.000	37.35	26.90	4.58	35.81	33.02	54.00	20.98	
	1944.000	31.35	27.76	4.75	35.65	28.21	54.00	25.79	

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : E2341TX Humidity : 60%RH

Serial No. : 010NDSKGT438 Date of Test : Nov 18, 2010

Test Mode : DVI 1680*1050@60Hz

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	32.910	1.89	17.95	0.66	--	20.50	40.00	19.50	QP
	68.800	12.59	6.51	0.89	--	19.99	40.00	20.01	
	130.880	25.80	12.47	1.18	--	39.45	43.50	4.05	
	186.170	28.82	10.14	1.40	--	40.36	43.50	3.14	
	315.180	17.07	14.32	1.81	--	33.20	46.00	12.80	
	838.980	15.56	21.09	2.95	--	39.60	46.00	6.40	
	1041.000	52.32	22.69	4.49	37.33	42.17	74.00	31.83	PK
	1201.000	48.87	23.74	4.51	37.00	40.12	74.00	33.88	
	1334.000	47.86	24.78	4.53	36.71	40.46	74.00	33.54	
	1393.000	48.61	25.16	4.54	36.55	41.76	74.00	32.24	
	1467.000	48.89	25.60	4.55	36.36	42.68	74.00	31.32	
	1600.000	48.16	26.40	4.56	36.10	43.02	74.00	30.98	
	1041.000	38.32	22.69	4.49	37.33	28.17	54.00	25.83	AV
	1201.000	32.87	23.74	4.51	37.00	24.12	54.00	29.88	
	1334.000	31.86	24.78	4.53	36.71	24.46	54.00	29.54	
	1393.000	32.61	25.16	4.54	36.55	25.76	54.00	28.24	
	1467.000	37.89	25.60	4.55	36.36	31.68	54.00	22.32	
	1600.000	38.16	26.40	4.56	36.10	33.02	54.00	20.98	

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : E2341TX Humidity : 60%RH

Serial No. : 010NDSKGT438 Date of Test : Nov 18, 2010

Test Mode : DVI 1680*1050@60Hz

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	16.55	17.95	0.66	--	35.16	40.00	4.84	QP
	50.370	16.57	8.85	0.78	--	26.20	40.00	13.80	
	118.270	22.99	12.91	1.12	--	37.02	43.50	6.48	
	189.080	26.02	10.24	1.41	--	37.67	43.50	5.83	
	400.540	18.28	16.50	2.06	--	36.84	46.00	9.16	
	855.470	19.14	21.28	2.97	--	43.39	46.00	2.61	
	1044.000	50.62	22.69	4.49	37.32	40.48	74.00	33.52	PK
	1125.000	52.35	23.27	4.50	37.16	42.96	74.00	31.04	
	1197.000	50.64	23.70	4.51	37.01	41.84	74.00	32.16	
	1333.000	48.06	24.74	4.53	36.71	40.62	74.00	33.38	
	1498.000	51.44	25.80	4.55	36.30	45.49	74.00	28.51	
	1600.000	50.50	26.40	4.56	36.10	45.36	74.00	28.64	
	1044.000	38.62	22.69	4.49	37.32	28.48	54.00	25.52	AV
	1125.000	36.35	23.27	4.50	37.16	26.96	54.00	27.04	
	1197.000	34.64	23.70	4.51	37.01	25.84	54.00	28.16	
	1333.000	33.06	24.74	4.53	36.71	25.62	54.00	28.38	
	1498.000	41.44	25.80	4.55	36.30	35.49	54.00	18.51	
	1600.000	40.50	26.40	4.56	36.10	35.36	54.00	18.64	

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : E2341TX Humidity : 60%RH

Serial No. : 010NDSKGT438 Date of Test : Nov 18, 2010

Test Mode : DVI 1920*1080@60Hz

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	32.910	1.68	17.95	0.66	--	20.29	40.00	19.71	QP
	129.910	21.53	12.52	1.17	--	35.22	43.50	8.28	
	186.170	27.63	10.14	1.40	--	39.17	43.50	4.33	
	264.740	20.41	13.22	1.65	--	35.28	46.00	10.72	
	540.220	10.55	18.42	2.33	--	31.30	46.00	14.70	
	841.890	15.56	21.12	2.95	--	39.63	46.00	6.37	
	1013.000	41.19	22.49	4.49	37.38	30.79	74.00	43.21	PK
	1264.000	37.32	24.23	4.52	36.86	29.21	74.00	44.79	
	1393.000	38.61	25.16	4.54	36.55	31.76	74.00	42.24	
	1500.000	39.44	25.80	4.55	36.30	33.49	74.00	40.51	
	1600.000	42.16	26.40	4.56	36.10	37.02	74.00	36.98	
	1716.000	41.00	26.71	4.57	35.92	36.36	74.00	37.64	
	1013.000	27.19	22.49	4.49	37.38	16.79	54.00	37.21	AV
	1264.000	20.32	24.23	4.52	36.86	12.21	54.00	41.79	
	1393.000	18.61	25.16	4.54	36.55	11.76	54.00	42.24	
	1500.000	22.44	25.80	4.55	36.30	16.49	54.00	37.51	
	1600.000	28.16	26.40	4.56	36.10	23.02	54.00	30.98	
	1716.000	29.00	26.71	4.57	35.92	24.36	54.00	29.64	

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : E2341TX Humidity : 60%RH

Serial No. : 010NDSKGT438 Date of Test : Nov 18, 2010

Test Mode : DVI 1920*1080@60Hz

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	41.640	23.06	13.02	0.73	--	36.81	40.00	3.19	QP
	53.280	17.20	8.14	0.80	--	26.14	40.00	13.86	
	119.240	25.68	12.97	1.12	--	39.77	43.50	3.73	
	344.280	14.38	15.16	1.90	--	31.44	46.00	14.56	
	559.620	17.04	18.72	2.38	--	38.14	46.00	7.86	
	855.470	18.92	21.28	2.97	--	43.17	46.00	2.83	
	1044.000	54.62	22.69	4.49	37.32	44.48	74.00	29.52	PK
	1125.000	55.35	23.27	4.50	37.16	45.96	74.00	28.04	
	1197.000	50.64	23.70	4.51	37.01	41.84	74.00	32.16	
	1333.000	47.06	24.74	4.53	36.71	39.62	74.00	34.38	
	1466.000	48.94	25.60	4.55	36.37	42.72	74.00	31.28	
	1600.000	50.50	26.40	4.56	36.10	45.36	74.00	28.64	
	1044.000	41.62	22.69	4.49	37.32	31.48	54.00	22.52	AV
	1125.000	40.35	23.27	4.50	37.16	30.96	54.00	23.04	
	1197.000	36.64	23.70	4.51	37.01	27.84	54.00	26.16	
	1333.000	32.06	24.74	4.53	36.71	24.62	54.00	29.38	
	1466.000	37.94	25.60	4.55	36.37	31.72	54.00	22.28	
	1600.000	39.50	26.40	4.56	36.10	34.36	54.00	19.64	

TEST ENGINEER: RAVEN JIN

5 DEVIATION TO TEST SPECIFICATIONS

None.

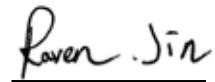
6 DEBUG DESCRIPTION

The following components are used during the countermeasure procedures:

Name	M/N	Specifications (mm)	Manufacturer	Location
Tape	T-308	50*30	DAEHUNG SUBSIDIARY MATERIALS.	See Internal Photos Figure 12

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)