

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

LCD Monitor

Model No.	W1953TV	W1953SV
Serial No.	E2008112102	E2008112504

FCC ID : BEJW1953TV

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

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Report No. : ACI-F08068
Date of Test : Nov 24, 2008
Date of Report : Nov 28, 2008

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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	W1953TV	W1953SV
(B) Serial No	E2008112102	E2008112504
(C) Power Supply	120V/60Hz	

Test Procedure Used:

*FCC RULES AND REGULATIONS PART 15 SUBPART B CLASS B OCTOBER 2008
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: W1953TV, W1953SV; S/N: E2008112102, E2008112504) which was tested in 3m anechoic chamber on Nov 24, 2008 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 24, 2008 Date of Report : Nov 28, 2008

Producer : Kathy Wang
KATHY WANG / Assistant

Review : Dio Yang
DIO YANG / Supervisor

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

Signatory : Sammy Chen
Authorized Signature EM SAMMY CHEN / Assistant 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 2008 AND ANSI C63.4-2003	15.107(a) Class B	Pass
Radiated Disturbance	FCC RULES AND REGULATIONS PART 15 SUBPART B OCTOBER 2008 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. :

W1953TV	W1953SV
---------	---------

Serial No. :

E2008112102	E2008112504
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Real Power :

Model Number	Real Power
W1953TV	21.00W
W1953SV	19.00W

Note : The difference between the above two models are as following only:

	W1953TV	W1953SV
D-Sub Port	○	○
DVI Port	○	--
NOTE 1 – “○” means the item is applicable.		
NOTE 2 – “--” means the item is no applicable.		

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: AU Optronics
M/N : M185XW01

Max Resolution : 1280*1024@75Hz

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 (only for W1953TV model)
: Connected with PC
- (3) One AC In Port
: Connected with Power

2.2 Peripherals

2.2.1 PC

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))

2.2.2 Printer

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

2.2.3 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

2.2.4 Mouse

Manufacturer	:	Microsoft
Model Number	:	RT2300
Serial Number	:	6965712071551
Data Cable	:	Shielded, Undetachable, 1.85m.
Certificate	:	FCC DoC, VCCI, CE/EMC, MIC, GS

2.2.5 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 : Sept. 17, 1998 file on
(Semi-Anechoic Chamber) July 26, 2006 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

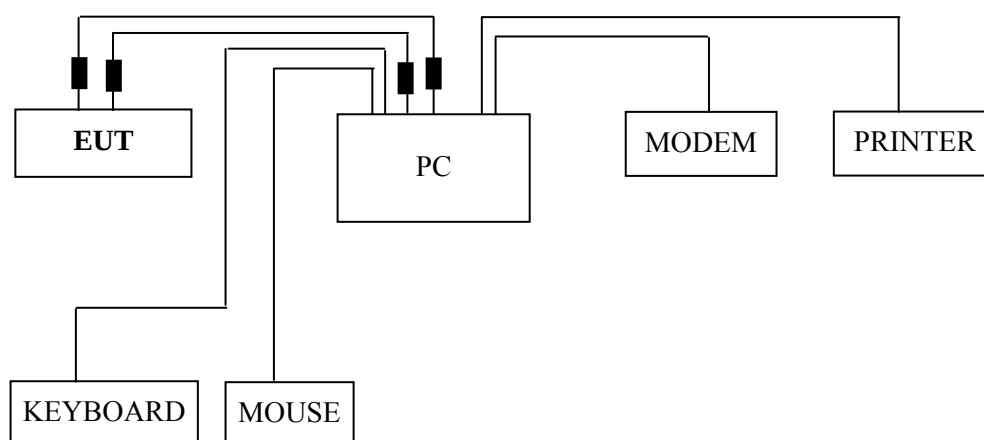
3.1 Test Equipment

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	ESHS10	830223/007	Apr 02, 2008	Apr 02, 2009
2.	Artificial Mains Network (AMN)	R&S	ESH2-Z5	843890/011	Apr 02, 2008	Apr 02, 2009
3.	Line Impedance Stabilization Network (LISN)	Kyoritsu	KNW-407	8-1280-4	Apr 02, 2008	Apr 02, 2009
4.	50 Ω Coaxial Switch	Anritsu	MP59B	6200426389	Sep 19, 2008	Mar 19, 2009
5.	50 Ω Terminator	Anritsu	BNC	001	Apr 02, 2008	Apr 02, 2009
6.	Software	Audix	E3	SET00200 9804M592	--	--

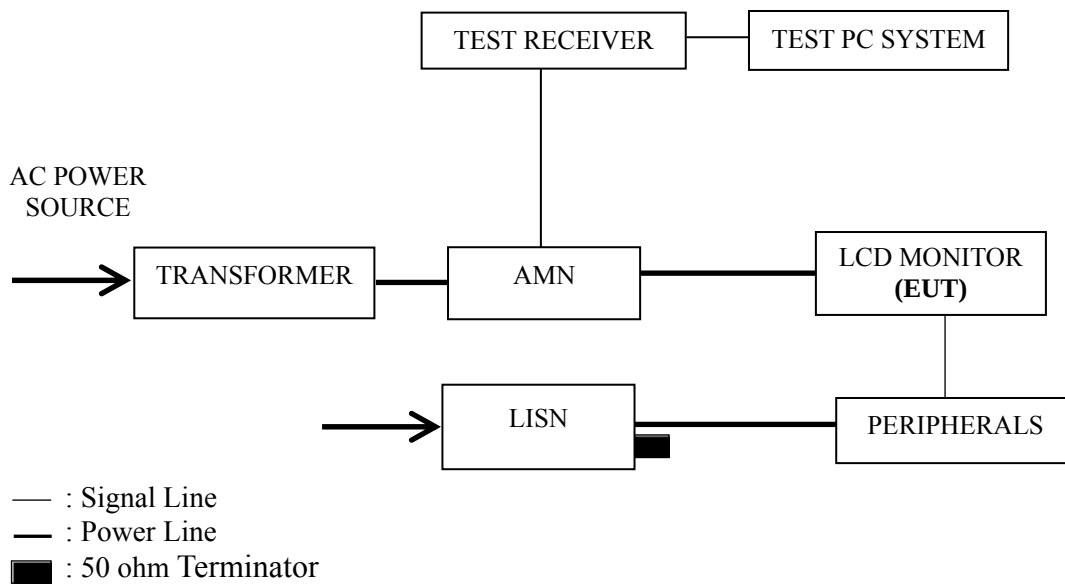
3.2 Block Diagram of Test Setup

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 (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, 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:

Model Number	Test Mode
W1953TV	D-Sub 640*480@60Hz
	D-Sub 1360*768@60Hz
	D-Sub 1280*1024@75Hz
	DVI 640*480@60Hz
	DVI 1360*768@60Hz
	DVI 1280*1024@75Hz
W1953SV	D-Sub 640*480@60Hz
	D-Sub 1360*768@60Hz
	D-Sub 1280*1024@75Hz

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 ESHS10 was set at 10 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.

Model Number	Test Mode	Data Page
W1953TV	D-Sub 640*480@60Hz	P12
	D-Sub 1360*768@60Hz	P13
	D-Sub 1280*1024@75Hz	P14
	DVI 640*480@60Hz	P15
	DVI 1360*768@60Hz	P16
	DVI 1280*1024@75Hz	P17
W1953SV	D-Sub 640*480@60Hz	P18
	D-Sub 1360*768@60Hz	P19
	D-Sub 1280*1024@75Hz	P20

NOTE 1 – Factor = Cable Loss + AMN Factor.

NOTE 2 – Emission Level = Meter Reading + Factor.

NOTE 3 – “QP” means “Quasi-Peak” values, “AV” means “Average” values.

NOTE 4 –The worst case is for D-Sub 1360*768@60Hz test mode (M/N: W1953TV). The worst emission is detected at 2.500 MHz (Average Value) with corrected signal level of 40.23 dB (μV) (limit is 46.00 dB (μV)), when the Neutral of the EUT is connected to AMN.

EUT : LCD Monitor Temperature : 21°C

Model No. : W1953TV Humidity : 50%RH

Serial No. : E2008112102 Date of Test : Nov 24, 2008

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	0.197	47.00	0.20	47.20	63.76	16.56	QP
	0.260	41.77	0.21	41.98	61.42	19.44	
	0.731	44.82	0.23	45.05	56.00	10.95	
	2.765	43.20	0.32	43.52	56.00	12.48	
	5.744	40.42	0.44	40.86	60.00	19.14	
	18.039	39.90	0.71	40.61	60.00	19.39	
	0.197	38.00	0.20	38.20	53.76	15.56	AV
	0.260	34.77	0.21	34.98	51.42	16.44	
	0.731	36.79	0.23	37.02	46.00	8.98	
	2.765	34.20	0.32	34.52	46.00	11.48	
	5.744	34.42	0.44	34.86	50.00	15.14	
	18.039	33.90	0.71	34.61	50.00	15.39	
Neutral	0.191	48.63	0.20	48.83	63.98	15.15	QP
	0.279	47.57	0.22	47.79	60.85	13.06	
	1.949	47.23	0.24	47.47	56.00	8.53	
	2.384	49.55	0.27	49.82	56.00	6.18	
	5.993	46.86	0.41	47.27	60.00	12.73	
	21.600	37.50	0.60	38.10	60.00	21.90	
	0.191	40.63	0.20	40.83	53.98	13.15	AV
	0.279	39.57	0.22	39.79	50.85	11.06	
	1.949	37.44	0.24	37.68	46.00	8.32	
	2.384	38.82	0.27	39.09	46.00	6.91	
	5.993	39.86	0.41	40.27	50.00	9.73	
	21.600	30.50	0.60	31.10	50.00	18.90	

TEST ENGINEER: YONG XU

EUT : LCD Monitor Temperature : 21°C

Model No. : W1953TV Humidity : 50%RH

Serial No. : E2008112102 Date of Test : Nov 24, 2008

Test Mode : D-Sub 1360*768@60Hz

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.191	46.90	0.20	47.10	63.98	16.88	QP
	0.258	42.15	0.21	42.36	61.51	19.15	
	0.731	45.42	0.23	45.65	56.00	10.35	
	1.980	43.39	0.27	43.66	56.00	12.34	
	18.622	40.46	0.72	41.18	60.00	18.82	
	21.946	42.00	0.79	42.79	60.00	17.21	
	0.191	39.90	0.20	40.10	53.98	13.88	AV
	0.258	35.15	0.21	35.36	51.51	16.15	
	0.731	37.42	0.23	37.65	46.00	8.35	
	1.980	31.39	0.27	31.66	46.00	14.34	
	18.622	33.46	0.72	34.18	50.00	15.82	
	21.946	35.00	0.79	35.79	50.00	14.21	
Neutral	0.193	48.77	0.20	48.97	63.89	14.92	QP
	0.282	47.71	0.22	47.93	60.76	12.83	
	0.885	45.95	0.23	46.18	56.00	9.82	
	2.500	49.88	0.28	50.16	56.00	5.84	
	5.623	47.26	0.39	47.65	60.00	12.35	
	22.180	37.37	0.62	37.99	60.00	22.01	
	0.193	41.77	0.20	41.97	53.89	11.92	AV
	0.282	39.71	0.22	39.93	50.76	10.83	
	0.885	35.48	0.23	35.71	46.00	10.29	
	2.500	39.95	0.28	40.23	46.00	5.77	
	5.623	41.26	0.39	41.65	50.00	8.35	
	22.180	32.37	0.62	32.99	50.00	17.01	

TEST ENGINEER: YONG XU

EUT : LCD Monitor Temperature : 21°C

Model No. : W1953TV Humidity : 50%RH

Serial No. : E2008112102 Date of Test : Nov 24, 2008

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	0.204	46.94	0.20	47.14	63.45	16.31	QP
	0.352	41.15	0.22	41.37	58.91	17.54	
	0.731	45.33	0.23	45.56	56.00	10.44	
	3.276	43.37	0.34	43.71	56.00	12.29	
	18.622	40.07	0.72	40.79	60.00	19.21	
	22.298	40.68	0.80	41.48	60.00	18.52	
	0.204	38.94	0.20	39.14	53.45	14.31	AV
	0.352	35.15	0.22	35.37	48.91	13.54	
	0.731	37.94	0.23	38.17	46.00	7.83	
	3.276	34.37	0.34	34.71	46.00	11.29	
	18.622	33.07	0.72	33.79	50.00	16.21	
	22.298	33.68	0.80	34.48	50.00	15.52	
Neutral	0.194	49.18	0.20	49.38	63.84	14.46	QP
	0.282	47.95	0.22	48.17	60.76	12.59	
	0.885	46.19	0.23	46.42	56.00	9.58	
	2.461	48.79	0.28	49.07	56.00	6.93	
	5.929	46.78	0.41	47.19	60.00	12.81	
	22.180	36.83	0.62	37.45	60.00	22.55	
	0.194	42.18	0.20	42.38	53.84	11.46	AV
	0.282	40.95	0.22	41.17	50.76	9.59	
	0.885	36.89	0.23	37.12	46.00	8.88	
	2.461	38.44	0.28	38.72	46.00	7.28	
	5.929	37.78	0.41	38.19	50.00	11.81	
	22.180	29.83	0.62	30.45	50.00	19.55	

TEST ENGINEER: YONG XU

EUT : LCD Monitor Temperature : 21°C

Model No. : W1953TV Humidity : 50%RH

Serial No. : E2008112102 Date of Test : Nov 24, 2008

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	0.194	46.85	0.20	47.05	63.84	16.79	QP
	0.352	40.47	0.22	40.69	58.91	18.22	
	0.731	43.76	0.23	43.99	56.00	12.01	
	2.249	43.06	0.29	43.35	56.00	12.65	
	11.139	36.43	0.63	37.06	60.00	22.94	
	22.896	39.67	0.83	40.50	60.00	19.50	
	0.194	39.85	0.20	40.05	53.84	13.79	AV
	0.352	34.47	0.22	34.69	48.91	14.22	
	0.731	38.76	0.23	38.99	46.00	7.01	
	2.249	39.06	0.29	39.35	46.00	6.65	
	11.139	30.43	0.63	31.06	50.00	18.94	
	22.896	33.67	0.83	34.50	50.00	15.50	
Neutral	0.193	47.26	0.20	47.46	63.89	16.43	QP
	0.279	45.02	0.22	45.24	60.85	15.61	
	1.636	43.72	0.25	43.97	56.00	12.03	
	2.474	48.28	0.28	48.56	56.00	7.44	
	5.744	46.37	0.40	46.77	60.00	13.23	
	23.018	38.10	0.64	38.74	60.00	21.26	
	0.193	40.26	0.20	40.46	53.89	13.43	AV
	0.279	39.02	0.22	39.24	50.85	11.61	
	1.636	34.72	0.25	34.97	46.00	11.03	
	2.474	35.60	0.28	35.88	46.00	10.12	
	5.744	43.37	0.40	43.77	50.00	6.23	
	23.018	32.10	0.64	32.74	50.00	17.26	

TEST ENGINEER: YONG XU

EUT : LCD Monitor Temperature : 21°C

Model No. : W1953TV Humidity : 50%RH

Serial No. : E2008112102 Date of Test : Nov 24, 2008

Test Mode : DVI 1360*768@60Hz

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.204	47.23	0.20	47.43	63.45	16.02	QP
	0.352	40.57	0.22	40.79	58.91	18.12	
	0.731	41.96	0.23	42.19	56.00	13.81	
	2.249	43.16	0.29	43.45	56.00	12.55	
	14.138	38.21	0.70	38.91	60.00	21.09	
	18.039	40.04	0.71	40.75	60.00	19.25	
	0.204	41.23	0.20	41.43	53.45	12.02	AV
	0.352	34.57	0.22	34.79	48.91	14.12	
	0.731	34.96	0.23	35.19	46.00	10.81	
	2.249	35.16	0.29	35.45	46.00	10.55	
	14.138	32.21	0.70	32.91	50.00	17.09	
	18.039	34.04	0.71	34.75	50.00	15.25	
Neutral	0.193	48.24	0.20	48.44	63.89	15.45	QP
	0.274	46.79	0.22	47.01	60.98	13.97	
	0.880	43.67	0.23	43.90	56.00	12.10	
	2.474	48.10	0.28	48.38	56.00	7.62	
	5.929	47.50	0.41	47.91	60.00	12.09	
	22.655	39.12	0.63	39.75	60.00	20.25	
	0.193	43.24	0.20	43.44	53.89	10.45	AV
	0.274	41.79	0.22	42.01	50.98	8.97	
	0.880	37.67	0.23	37.90	46.00	8.10	
	2.474	33.80	0.28	34.08	46.00	11.92	
	5.929	41.50	0.41	41.91	50.00	8.09	
	22.655	33.12	0.63	33.75	50.00	16.25	

TEST ENGINEER: YONG XU

EUT : LCD Monitor Temperature : 21°C

Model No. : W1953TV Humidity : 50%RH

Serial No. : E2008112102 Date of Test : Nov 24, 2008

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	0.200	46.37	0.20	46.57	63.62	17.05	QP
	0.352	40.65	0.22	40.87	58.91	18.04	
	0.731	42.80	0.23	43.03	56.00	12.97	
	2.513	42.85	0.31	43.16	56.00	12.84	
	10.790	35.33	0.62	35.95	60.00	24.05	
	18.920	39.12	0.72	39.84	60.00	20.16	
	0.200	39.37	0.20	39.57	53.62	14.05	AV
	0.352	34.65	0.22	34.87	48.91	14.04	
	0.731	35.80	0.23	36.03	46.00	9.97	
	2.513	33.85	0.31	34.16	46.00	11.84	
	10.790	30.33	0.62	30.95	50.00	19.05	
	18.920	33.60	0.72	34.32	50.00	15.68	
Neutral	0.193	47.72	0.20	47.92	63.89	15.97	QP
	0.282	45.33	0.22	45.55	60.76	15.21	
	0.779	43.35	0.23	43.58	56.00	12.42	
	2.513	46.19	0.28	46.47	56.00	9.53	
	14.986	31.62	0.57	32.19	60.00	27.81	
	22.655	38.27	0.63	38.90	60.00	21.10	
	0.193	41.72	0.20	41.92	53.89	11.97	AV
	0.282	40.33	0.22	40.55	50.76	10.21	
	0.779	34.35	0.23	34.58	46.00	11.42	
	2.513	32.70	0.28	32.98	46.00	13.02	
	14.986	24.62	0.57	25.19	50.00	24.81	
	22.655	30.27	0.63	30.90	50.00	19.10	

TEST ENGINEER: YONG XU

EUT : LCD Monitor Temperature : 21°C

Model No. : W1953SV Humidity : 50%RH

Serial No. : E2008112504 Date of Test : Nov 24, 2008

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	0.193	43.24	0.20	43.44	63.89	20.45	QP
	0.449	38.01	0.22	38.23	56.89	18.66	
	0.775	42.99	0.24	43.23	56.00	12.77	
	2.809	44.66	0.32	44.98	56.00	11.02	
	5.713	41.03	0.44	41.47	60.00	18.53	
	21.147	39.66	0.77	40.43	60.00	19.57	
	0.193	35.48	0.20	35.68	53.89	18.21	AV
	0.449	32.50	0.22	32.72	46.89	14.17	
	0.775	37.47	0.24	37.71	46.00	8.29	
	2.809	34.18	0.32	34.50	46.00	11.50	
	5.713	34.25	0.44	34.69	50.00	15.31	
	21.147	33.79	0.77	34.56	50.00	15.44	
Neutral	0.197	45.52	0.20	45.72	63.76	18.04	QP
	0.419	43.14	0.22	43.36	57.46	14.10	
	0.724	46.19	0.23	46.42	56.00	9.58	
	2.900	47.75	0.29	48.04	56.00	7.96	
	5.447	45.49	0.38	45.87	60.00	14.13	
	21.147	34.35	0.59	34.94	60.00	25.06	
	0.197	40.52	0.20	40.72	53.76	13.04	AV
	0.419	36.14	0.22	36.36	47.46	11.10	
	0.724	36.28	0.23	36.51	46.00	9.49	
	2.900	37.49	0.29	37.78	46.00	8.22	
	5.447	41.49	0.38	41.87	50.00	8.13	
	21.147	28.35	0.59	28.94	50.00	21.06	

TEST ENGINEER: YONG XU

EUT : LCD Monitor Temperature : 21°C

Model No. : W1953SV Humidity : 50%RH

Serial No. : E2008112504 Date of Test : Nov 24, 2008

Test Mode : D-Sub 1360*768@60Hz

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.262	42.20	0.21	42.41	61.38	18.97	QP
	0.469	38.63	0.22	38.85	56.54	17.69	
	0.767	43.12	0.24	43.36	56.00	12.64	
	2.765	45.51	0.32	45.83	56.00	10.17	
	5.623	38.37	0.43	38.80	60.00	21.20	
	21.260	39.48	0.77	40.25	60.00	19.75	
	0.262	36.50	0.21	36.71	51.38	14.67	AV
	0.469	32.10	0.22	32.32	46.54	14.22	
	0.767	37.79	0.24	38.03	46.00	7.97	
	2.765	35.24	0.32	35.56	46.00	10.44	
	5.623	32.10	0.43	32.53	50.00	17.47	
	21.260	32.10	0.77	32.87	50.00	17.13	
Neutral	0.193	45.90	0.20	46.10	63.89	17.79	QP
	0.415	43.36	0.22	43.58	57.55	13.97	
	0.724	44.79	0.23	45.02	56.00	10.98	
	2.931	48.18	0.29	48.47	56.00	7.53	
	5.447	46.61	0.38	46.99	60.00	13.01	
	20.814	34.77	0.58	35.35	60.00	24.65	
	0.193	41.90	0.20	42.10	53.89	11.79	AV
	0.415	38.36	0.22	38.58	47.55	8.97	
	0.724	34.19	0.23	34.42	46.00	11.58	
	2.931	38.53	0.29	38.82	46.00	7.18	
	5.447	41.61	0.38	41.99	50.00	8.01	
	20.814	28.77	0.58	29.35	50.00	20.65	

TEST ENGINEER: YONG XU

EUT : LCD Monitor Temperature : 21°C

Model No. : W1953SV Humidity : 50%RH

Serial No. : E2008112504 Date of Test : Nov 24, 2008

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	0.198	42.52	0.20	42.72	63.71	20.99	QP
	0.256	41.20	0.21	41.41	61.56	20.15	
	0.724	43.27	0.23	43.50	56.00	12.50	
	2.900	43.83	0.32	44.15	56.00	11.85	
	13.915	36.09	0.69	36.78	60.00	23.22	
	21.260	40.05	0.77	40.82	60.00	19.18	
	0.198	37.52	0.20	37.72	53.71	15.99	AV
	0.256	35.20	0.21	35.41	51.56	16.15	
	0.724	37.27	0.23	37.50	46.00	8.50	
	2.900	33.53	0.32	33.85	46.00	12.15	
	13.915	33.09	0.69	33.78	50.00	16.22	
	21.260	35.05	0.77	35.82	50.00	14.18	
Neutral	0.193	46.38	0.20	46.58	63.89	17.31	QP
	0.337	42.96	0.22	43.18	59.27	16.09	
	0.708	45.42	0.23	45.65	56.00	10.35	
	2.839	48.51	0.29	48.80	56.00	7.20	
	5.058	47.23	0.36	47.59	60.00	12.41	
	20.814	36.54	0.58	37.12	60.00	22.88	
	0.193	41.38	0.20	41.58	53.89	12.31	AV
	0.337	36.96	0.22	37.18	49.27	12.09	
	0.708	35.42	0.23	35.65	46.00	10.35	
	2.839	38.54	0.29	38.83	46.00	7.17	
	5.058	40.23	0.36	40.59	50.00	9.41	
	20.814	32.54	0.58	33.12	50.00	16.88	

TEST ENGINEER: YONG XU

4 RADIATED EMISSION TEST

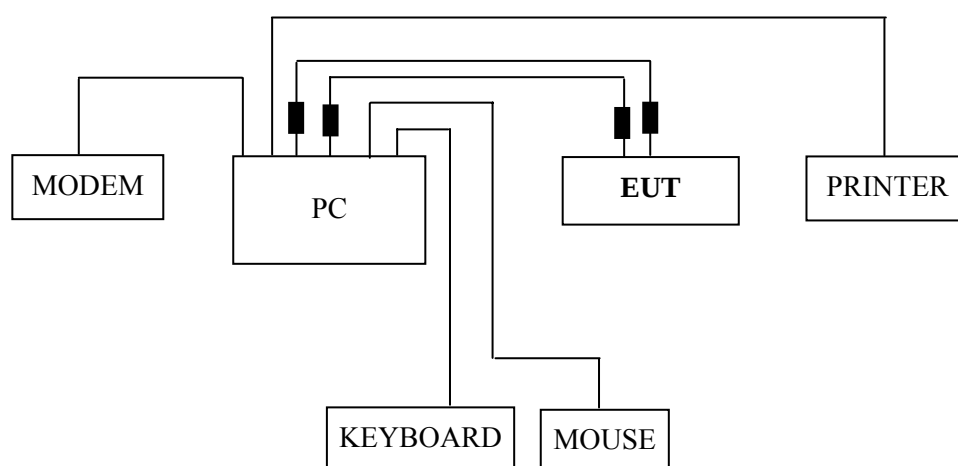
4.1 Test Equipment

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, 2008	Mar 07, 2009
2.	Preamplifier	Agilent	8447D	2944A10548	Sep 19, 2008	Mar 19, 2009
3.	Preamplifier	HP	8449B	3008A00864	May 19, 2008	May 19, 2009
4.	Bi-log Antenna	TESEQ	CBL6112D	23193	May 14, 2008	May 14, 2009
5.	Spectrum	Agilent	E7405A	MY45106600	May 19, 2008	May 19, 2009
6.	Software	Audix	E3	SET00200 9912M295-2	--	--

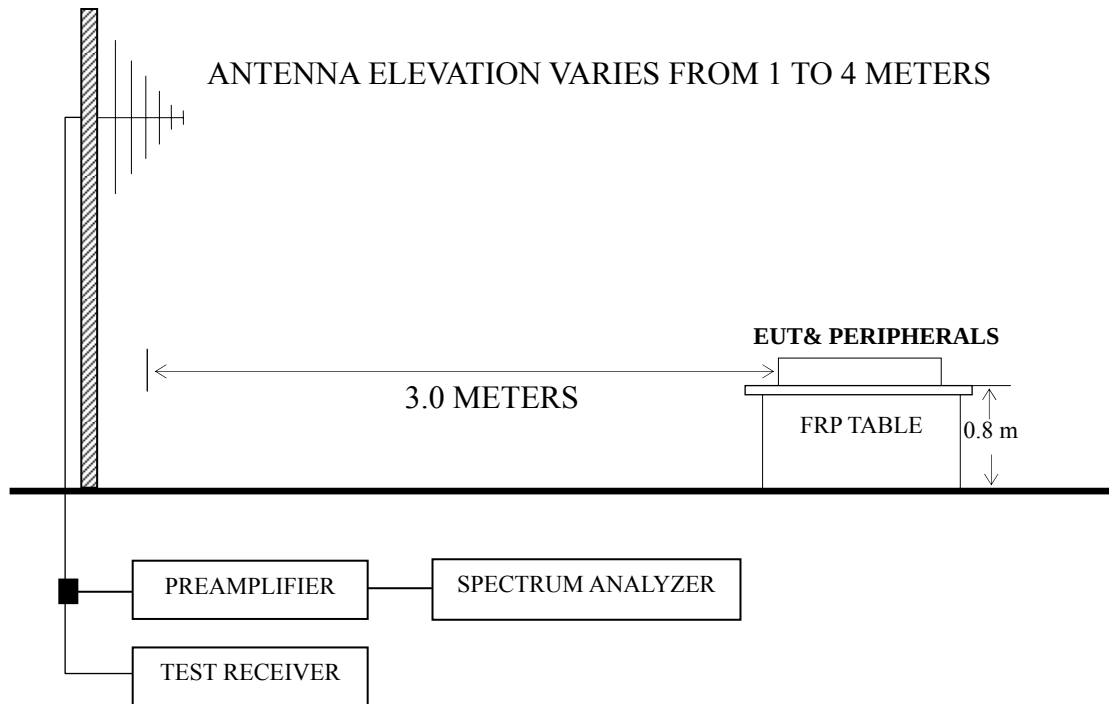
4.2 Block Diagram of Test Setup

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 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@75 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.

Model Number	Test Mode	Data Page
W1953TV	D-Sub 640*480@60Hz	P25
	D-Sub 1360*768@60Hz	P26
	D-Sub 1280*1024@75Hz	P27
	DVI 640*480@60Hz	P28
	DVI 1360*768@60Hz	P29
	DVI 1280*1024@75Hz	P30
W1953SV	D-Sub 640*480@60Hz	P31
	D-Sub 1360*768@60Hz	P32
	D-Sub 1280*1024@75Hz	P33

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

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

NOTE 3 – The emission levels that are 20dB below the official limit are not reported.

NOTE 4 – 0° was the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.

NOTE 5 – All reading are Quasi-Peak values below or equal to 1GHz and Peak values above 1GHz. For measurements above 1 GHz, the peak measured value complies with the average limit, it is unnecessary to perform an average measurement.

NOTE 6 – The worst case is for D-Sub 1280*1024@75Hz test mode (M/N: W1953TV). The worst emission at horizontal polarization was detected at 225.940MHz with corrected signal level of 33.37 dB ($\mu\text{V/m}$) (limit is 46.00 dB ($\mu\text{V/m}$)), when the antenna was 1.20 m height and the turntable was at 290° . The worst emission at vertical polarization was detected at 31.940 MHz with corrected signal level of 36.45 dB ($\mu\text{V/m}$) (limit is 40.00 dB ($\mu\text{V/m}$)), when the antenna was 1.00 m height and the turntable was at 110° .

EUT : LCD Monitor Temperature : 22°C

Model No. : W1953TV Humidity : 60%RH

Serial No. : E2008112102 Date of Test : Nov 24, 2008

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	69.770	12.23	6.50	0.87	19.60	40.00	20.40
	139.610	14.68	12.12	0.91	27.71	43.50	15.79
	227.880	22.82	12.02	1.19	36.03	46.00	9.97
	315.180	17.92	14.32	1.62	33.86	46.00	12.14
	372.410	16.28	15.92	1.91	34.11	46.00	11.89
	486.870	11.17	17.75	2.33	31.25	46.00	14.75
Vertical	31.940	13.20	18.49	0.59	32.28	40.00	7.72
	67.830	22.20	6.52	0.86	29.58	40.00	10.42
	94.020	15.72	10.27	0.85	26.84	43.50	16.66
	140.580	21.33	12.05	0.91	34.29	43.50	9.21
	319.060	17.05	14.43	1.64	33.12	46.00	12.88
	427.700	12.22	16.89	2.14	31.25	46.00	14.75

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : W1953TV Humidity : 60%RH

Serial No. : E2008112102 Date of Test : Nov 24, 2008

Test Mode : D-Sub 1360*768@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	103.720	8.43	11.77	0.85	21.05	43.50	22.45
	129.910	10.42	12.52	0.90	23.84	43.50	19.66
	203.630	20.46	10.85	1.10	32.41	43.50	11.09
	259.890	17.37	13.10	1.33	31.80	46.00	14.20
	315.180	14.70	14.32	1.62	30.64	46.00	15.36
	344.280	12.50	15.16	1.77	29.43	46.00	16.57
Vertical	31.940	13.59	18.49	0.59	32.67	40.00	7.33
	66.860	23.77	6.53	0.86	31.16	40.00	8.84
	139.610	16.09	12.12	0.91	29.12	43.50	14.38
	221.090	19.19	11.71	1.16	32.06	46.00	13.94
	286.080	16.86	13.66	1.46	31.98	46.00	14.02
	431.580	11.43	16.95	2.16	30.54	46.00	15.46

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : W1953TV Humidity : 60%RH

Serial No. : E2008112102 Date of Test : Nov 24, 2008

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	67.830	13.74	6.52	0.86	--	21.12	40.00	18.88	QP
	129.910	13.09	12.52	0.90	--	26.51	43.50	16.99	
	151.250	15.15	11.19	0.93	--	27.27	43.50	16.23	
	225.940	20.24	11.94	1.19	--	33.37	46.00	12.63	
	342.340	14.26	15.11	1.77	--	31.14	46.00	14.86	
	407.330	13.23	16.59	2.06	--	31.88	46.00	14.12	
	1070.000	45.75	22.88	3.99	37.50	35.12	74.00	38.88	PK
	1201.000	46.57	23.74	4.21	37.17	37.35	74.00	36.65	
	1404.000	46.33	25.24	4.57	36.72	39.42	74.00	34.58	
	1568.000	45.33	26.22	4.85	36.40	40.00	74.00	34.00	
	1693.000	44.77	26.63	5.11	36.18	40.33	74.00	33.67	
	1820.000	44.70	27.03	5.21	35.97	40.97	74.00	33.03	
Vertical	31.940	17.37	18.49	0.59	--	36.45	40.00	3.55	QP
	66.860	20.74	6.53	0.86	--	28.13	40.00	11.87	
	100.810	17.69	11.57	0.85	--	30.11	43.50	13.39	
	228.850	18.95	12.07	1.20	--	32.22	46.00	13.78	
	287.050	17.43	13.68	1.48	--	32.59	46.00	13.41	
	429.640	11.14	16.92	2.14	--	30.20	46.00	15.80	
	1122.000	46.45	23.24	4.07	37.37	36.39	74.00	37.61	PK
	1163.000	46.94	23.51	4.16	37.27	37.34	74.00	36.66	
	1312.000	46.35	24.62	4.39	36.91	38.45	74.00	35.55	
	1385.000	45.30	25.13	4.54	36.76	38.21	74.00	35.79	
	1656.000	47.22	26.54	5.05	36.25	42.56	74.00	31.44	
	1968.000	44.34	27.91	5.28	35.74	41.79	74.00	32.21	

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : W1953TV Humidity : 60%RH

Serial No. : E2008112102 Date of Test : Nov 24, 2008

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	70.740	9.51	6.58	0.87	16.96	40.00	23.04
	125.060	10.05	12.76	0.89	23.70	43.50	19.80
	159.010	13.69	10.59	0.95	25.23	43.50	18.27
	211.390	20.31	11.22	1.13	32.66	43.50	10.84
	322.940	21.91	14.54	1.66	38.11	46.00	7.89
	403.450	12.97	16.55	2.04	31.56	46.00	14.44
Vertical	31.940	9.93	18.49	0.59	29.01	40.00	10.99
	70.740	16.34	6.58	0.87	23.79	40.00	16.21
	100.810	14.36	11.57	0.85	26.78	43.50	16.72
	217.210	24.38	11.48	1.15	37.01	46.00	8.99
	288.990	20.46	13.71	1.48	35.65	46.00	10.35
	325.850	20.01	14.62	1.69	36.32	46.00	9.68

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : W1953TV Humidity : 60%RH

Serial No. : E2008112102 Date of Test : Nov 24, 2008

Test Mode : DVI 1360*768@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	127.970	12.92	12.63	0.89	26.44	43.50	17.06
	157.070	17.84	10.74	0.95	29.53	43.50	13.97
	211.390	21.37	11.22	1.13	33.72	43.50	9.78
	321.970	23.10	14.50	1.66	39.26	46.00	6.74
	399.570	14.06	16.50	2.04	32.60	46.00	13.40
	473.290	10.48	17.57	2.30	30.35	46.00	15.65
Vertical	30.970	12.94	19.03	0.57	32.54	40.00	7.46
	100.810	17.56	11.57	0.85	29.98	43.50	13.52
	212.360	24.87	11.26	1.13	37.26	43.50	6.24
	287.050	19.84	13.68	1.48	35.00	46.00	11.00
	330.700	18.94	14.74	1.71	35.39	46.00	10.61
	429.640	15.99	16.92	2.14	35.05	46.00	10.95

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : W1953TV Humidity : 60%RH

Serial No. : E2008112102 Date of Test : Nov 24, 2008

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	126.030	10.57	12.71	0.89	--	24.17	43.50	19.33	QP
	145.430	15.86	11.66	0.92	--	28.44	43.50	15.06	
	215.270	20.72	11.39	1.14	--	33.25	43.50	10.25	
	321.970	21.17	14.50	1.66	--	37.33	46.00	8.67	
	393.750	12.75	16.37	2.02	--	31.14	46.00	14.86	
	765.260	6.06	20.36	3.25	--	29.67	46.00	16.33	
	1094.000	47.81	23.05	4.04	37.44	37.46	74.00	36.54	PK
	1270.000	47.73	24.27	4.33	37.01	39.32	74.00	34.68	
	1506.000	47.28	25.84	4.74	36.51	41.35	74.00	32.65	
	1602.000	50.43	26.40	4.92	36.34	45.41	74.00	28.59	
	1795.000	48.13	26.88	5.20	36.01	44.20	74.00	29.80	
	1833.000	48.42	27.08	5.22	35.95	44.77	74.00	29.23	
Vertical	34.850	15.32	16.97	0.62	--	32.91	40.00	7.09	QP
	99.840	16.52	11.42	0.85	--	28.79	43.50	14.71	
	216.240	25.17	11.43	1.14	--	37.74	46.00	8.26	
	286.080	20.38	13.66	1.46	--	35.50	46.00	10.50	
	326.820	19.62	14.66	1.69	--	35.97	46.00	10.03	
	393.750	18.06	16.37	2.02	--	36.45	46.00	9.55	
	1091.000	47.32	23.05	4.02	37.45	36.94	74.00	37.06	PK
	1169.000	47.79	23.54	4.16	37.25	38.24	74.00	35.76	
	1314.000	46.39	24.62	4.39	36.91	38.49	74.00	35.51	
	1394.000	45.55	25.16	4.54	36.74	38.51	74.00	35.49	
	1749.000	46.96	26.78	5.18	36.08	42.84	74.00	31.16	
	1836.000	44.98	27.12	5.22	35.94	41.38	74.00	32.62	

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : W1953SV Humidity : 60%RH

Serial No. : E2008112504 Date of Test : Nov 24, 2008

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	141.550	23.80	12.01	0.91	36.72	43.50	6.78
	166.770	16.41	10.31	0.98	27.70	43.50	15.80
	200.720	17.29	10.74	1.08	29.11	43.50	14.39
	228.850	18.10	12.07	1.20	31.37	46.00	14.63
	385.990	9.59	16.20	1.98	27.77	46.00	18.23
	429.640	10.00	16.92	2.14	29.06	46.00	16.94
Vertical	54.250	25.51	7.92	0.79	34.22	40.00	5.78
	101.780	17.36	11.63	0.85	29.84	43.50	13.66
	129.910	21.09	12.52	0.90	34.51	43.50	8.99
	140.580	23.87	12.05	0.91	36.83	43.50	6.67
	167.740	16.14	10.27	0.98	27.39	43.50	16.11
	200.720	17.69	10.74	1.08	29.51	43.50	13.99

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : W1953SV Humidity : 60%RH

Serial No. : E2008112504 Date of Test : Nov 24, 2008

Test Mode : D-Sub 1360*768@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	30.970	3.81	19.03	0.57	23.41	40.00	16.59
	107.600	10.54	12.10	0.86	23.50	43.50	20.00
	141.550	23.66	12.01	0.91	36.58	43.50	6.92
	228.850	19.23	12.07	1.20	32.50	46.00	13.50
	429.640	10.69	16.92	2.14	29.75	46.00	16.25
	602.300	5.89	19.21	2.59	27.69	46.00	18.31
Vertical	30.970	13.17	19.03	0.57	32.77	40.00	7.23
	54.250	24.28	7.92	0.79	32.99	40.00	7.01
	100.810	15.03	11.57	0.85	27.45	43.50	16.05
	139.610	23.36	12.12	0.91	36.39	43.50	7.11
	222.060	17.86	11.75	1.16	30.77	46.00	15.23
	602.300	14.52	19.21	2.59	36.32	46.00	9.68

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : W1953SV Humidity : 60%RH

Serial No. : E2008112504 Date of Test : Nov 24, 2008

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	140.580	22.14	12.05	0.91	--	35.10	43.50	8.40	QP
	200.720	17.05	10.74	1.08	--	28.87	43.50	14.63	
	228.850	17.85	12.07	1.20	--	31.12	46.00	14.88	
	237.580	18.03	12.44	1.23	--	31.70	46.00	14.30	
	315.180	12.90	14.32	1.62	--	28.84	46.00	17.16	
	429.640	10.58	16.92	2.14	--	29.64	46.00	16.36	
	1506.000	47.28	25.84	4.74	36.51	41.35	74.00	32.65	PK
	1688.000	50.91	26.63	5.08	36.18	46.44	74.00	27.56	
	1785.000	47.70	26.87	5.20	36.03	43.74	74.00	30.26	
	1872.000	46.54	27.31	5.23	35.89	43.19	74.00	30.81	
	1928.000	50.62	27.66	5.27	35.80	47.75	74.00	26.25	
	2000.000	52.09	28.10	5.30	35.70	49.79	74.00	24.21	
Vertical	30.970	16.70	19.03	0.57	--	36.30	40.00	3.70	QP
	55.220	24.58	7.69	0.80	--	33.07	40.00	6.93	
	107.600	17.05	12.10	0.86	--	30.01	43.50	13.49	
	142.520	24.41	11.91	0.91	--	37.23	43.50	6.27	
	220.120	17.29	11.66	1.16	--	30.11	46.00	15.89	
	429.640	14.26	16.92	2.14	--	33.32	46.00	12.68	
	1024.000	47.68	22.57	3.88	37.63	36.50	74.00	37.50	PK
	1298.000	48.52	24.49	4.39	36.95	40.45	74.00	33.55	
	1364.000	45.63	24.98	4.48	36.80	38.29	74.00	35.71	
	1394.000	45.55	25.16	4.54	36.74	38.51	74.00	35.49	
	1430.000	44.91	25.38	4.60	36.67	38.22	74.00	35.78	
	1461.000	45.24	25.56	4.66	36.60	38.86	74.00	35.14	

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
Aluminum foil	T-308	50*30	DAEHUNG SUBSIDIARY MATERIALS.	See Internal Photos Figure 2, 15, 16, 17, 18, 31