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Application for FCC Certificate On Behalf of Hisense Electric Co., Ltd.

LCD TV

Model No.	Serial No.	Brand
LTDN40W07US	E2009031801	
LTDN40V68US		Hisense
LTDN40V57US		
40LE45S		Element
40LC45S		Proscan
40LC45S57		Proscan

FCC ID: W9HLTDN40W07US

Prepared For: Hisense Electric Co., Ltd.

No.218 Qianwangang Road, Economy & Technology

Development Zone, Qingdao, China

Prepared By: Audix Technology (Shanghai) Co., Ltd.

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Report No.: ACI-F09025

Date of Test: Mar 21 – 22, 2009 Date of Report: Mar 31, 2009 Hisense Electric Co., Ltd. FCC ID: W9HLTDN40W07US Page 2 of 34

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TEST REPORT FOR FCC CERTIFICATE

Applicant

Hisense Electric Co., Ltd.

Manufacturer

Hisense Electric Co., Ltd.

EUT Description

LCD TV

Model No. Serial No.		Brand	Power Supply
LTDN40W07US	E2009031801		
LTDN40V68US	1	Hisense	120V/60Hz
LTDN40V57US	1		
40LE45S	1	Element	120V/00HZ
40LC45S	1	Dragaan	
40LC45S57		Proscan	

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) 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: Refer to Sec.2.1; S/N: Refer to Sec.2.1) which was tested in 3m anechoic chamber Mar 21 – 22, 2009 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.

The test results for EUT's TV function are contained in No.F09024, a Verification report.

Date of Test :	Mar 21 – 22, 2009	Date of Report :	Mar 31, 2009
Producer :	Zeno Gu ZENO GU / Assistant		
Review:	DIO YANG / Supervisor		

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

Authorized Signature EMC SAMMY CHEN / Assistant Manager

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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

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2 GENERAL INFORMATION

2.1 Description of Equipment Under Test

Description : LCD TV

Type of EUT : \square Production \square Pre-product \square Pro-type

Model Number	Serial Number	Brand
LTDN40W07US	E2009031801	
LTDN40V68US		Hisense
LTDN40V57US		
40LE45S		Element
40LC45S		Dragaan
40LC45S57		Proscan

Note 1 : The above models are all the same except for the

different model number and brand.

Note 2 : The LTDN40W07US was tested and recorded in

this report.

Applicant : Hisense Electric Co., Ltd.

No.218 Qianwangang Road, Economy &

Technology Development Zone, Qingdao, China

Manufacturer : Hisense Electric Co., Ltd.

No.218 Qianwangang Road, Economy &

Technology Development Zone, Qingdao, China

LCD Panel : Manufacturer : SAMSUNG

M/N : LTA400HA07 S/N : 7N9B1NC39A

Max Resolution : 1920*1080@60Hz

D-Sub Cable : Shielded, Detachable, 1.85m,

with two cores on cable

HDMI Cable : Shielded, Detachable, 1.85m,

without core on cable

RS232 Cable : Shielded, Detachable, 1.80m,

with one core on cable

Power Cord : Unshielded, Detachable, 1.80m

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Remark:

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

Bottom View:

(1) One Optical Port

Connected with DVD #1

(2) One Headphone Port

Connected with Earphone

(3) One RS232 Port

Connected with PC

(4) Three component of AV Ports

Connected with DVD #1 and

DVD #2

(5) One S-Video Port

Connected with TV SG

Side Port:

(6) One ANT Port

Connected with TV SG/ATSC SG

(7) One VGA Port

Connected with PC

(8) One VGA Audio In Port

Connected with PC

(9) One component of YPbPr1 Port

Connected with DVD #1

(10) One component of YPbPr1 Audio Port

Connected with DVD #1

(11) One component of YPbPr2 Port

Connected with DVD #2

(12) One component of YPbPr2 Audio Port

Connected with DVD #2

(13) One HDMI1 Port

Connected with DVD #1

(14) One HDMI2 Port

Connected with DVD #2

(15) One HDMI3 Port

Connected with PC

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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 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, 1.8m.

Certificate : CE/EMC, FCC DoC, VCCI, MIC, C-Tick,

BSMI

2.2.5 Earphone

Manufacturer : SONY Model Number : MDR-E808

Serial Number: 1808030805305506

2.2.6 TV Signal Generator

Manufacturer : FLUKE Model Number : 54200m01 Serial Number : 814008

Data Cable : Shielded, detachable, 2.0m Power Cord : Unshielded, detachable, 2.0m Certificate : CE/EMC, FCC DoC, CCC

2.2.7 ATSC Signal Generator

Manufacturer : SENCORE Model Number : ATSC997 Serial Number : 6790071 Hisense Electric Co., Ltd. FCC ID: W9HLTDN40W07US Page 8 of 34

2.2.8 DVD#1

Manufacturer : PHILIPS
Model Number : DVP3986K/93
Serial Number : KX1A0902120108

Certificate : FCC DoC, CE/EMC, CCC

2.2.9 DVD#2

Manufacturer : PHILIPS
Model Number : DVP3986K/93
Serial Number : KX1A0902120082

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 dBRadiated Emission Expanded Uncertainty : U = 3.02 dB Hisense Electric Co., Ltd. FCC ID: W9HLTDN40W07US Page 9 of 34

3 CONDUCTED EMISSION TEST

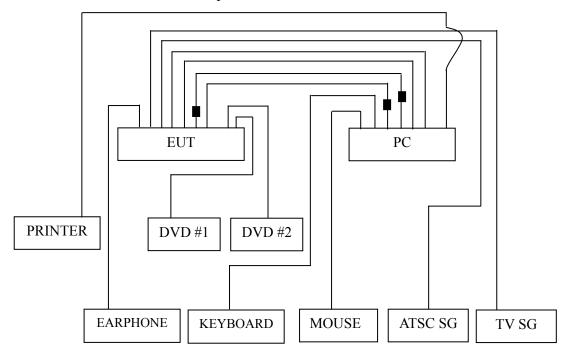
3.1.1 Test Equipment

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	Nov 21, 2008	Nov 21, 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	Mar 19, 2009	Sep 19, 2009
5.	50Ω Terminator	Anritsu	BNC	001	Apr 02, 2008	Apr 02, 2009
6.	Software	Audix	E3	SET00200 9804M592		-1

3.2 Block Diagram of Test Setup

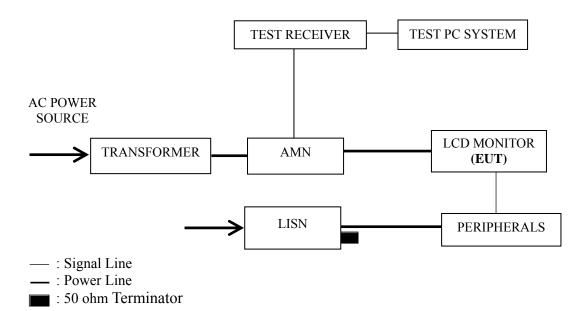
3.2.1 EUT & Peripherals



: Ferrite core

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3.2.2 Conducted Disturbance Test Setup



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

Frequency Range	Limits dB (μV)			
(MHz)	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 $0.15~\text{MHz}{\sim}0.50~\text{MHz}$

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.

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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 & HDMI 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 1024*768@60Hz
D-Sub 1680*1050@60Hz
D-Sub 1920*1080@60Hz
HDMI 640*480@60Hz
HDMI 1024*768@60Hz
HDMI 1680*1050@60Hz
HDMI 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.

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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	Data Page
D-Sub 640*480@60Hz	P13
D-Sub 1024*768@60Hz	P14
D-Sub 1680*1050@60Hz	P15
D-Sub 1920*1080@60Hz	P16
HDMI 640*480@60Hz	P17
HDMI 1024*768@60Hz	P18
HDMI 1680*1050@60Hz	P19
HDMI 1920*1080@60Hz	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 1024*768@60Hz test mode. The worst emission is detected at 0.408 MHz (Average) with corrected signal level of 44.48 dB (μ V) (limit is 47.68 dB (μ V)), when the Neutral of the EUT is connected to AMN.

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EUT : LCD TV Temperature : 20° C

Model No. : LTDN40W07US Humidity : 46%RH

Serial No. : <u>E2009031801</u> Date of Test : <u>Mar 22, 2009</u>

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
	0.194	49.12	0.20	49.32	63.84	14.52	
	0.406	53.41	0.22	53.63	57.73	4.10	
	0.621	27.74	0.22	27.96	56.00	28.04	QP
	0.830	19.70	0.24	19.94	56.00	36.06	Qr
	17.383	42.68	0.72	43.40	60.00	16.60	
Line	24.400	43.09	0.88	43.97	60.00	16.03	
Line	0.194	39.53	0.20	39.73	53.84	14.11	
	0.406	43.26	0.22	43.48	47.73	4.25	
	0.621	17.56	0.22	17.78	46.00	28.22	AV
	0.830	11.36	0.24	11.60	46.00	34.40	
	17.383	32.36	0.72	33.08	50.00	16.92	
	24.400	33.36	0.88	34.24	50.00	15.76	
	0.194	48.55	0.20	48.75	63.84	15.09	
	0.408	52.70	0.22	52.92	57.68	4.76	
	1.223	31.09	0.24	31.33	56.00	24.67	OD
	2.581	24.14	0.28	24.42	56.00	31.58	QP
	17.383	39.90	0.56	40.46	60.00	19.54	
Neutral	24.142	43.09	0.67	43.76	60.00	16.24	
Neutrai	0.194	38.65	0.20	38.85	53.84	14.99	
	0.413	41.70	0.22	41.92	47.59	5.67	AV
	1.223	21.26	0.24	21.50	46.00	24.50	
	2.581	14.25	0.28	14.53	46.00	31.47	
	17.383	31.86	0.56	32.42	50.00	17.58	
	24.142	33.72	0.67	34.39	50.00	15.61	

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EUT : LCD TV Temperature : 20° C

Model No. : LTDN40W07US Humidity : 46%RH

Serial No. : E2009031801 Date of Test : Mar 22, 2009

Test Mode : D-Sub 1024*768@60Hz

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(µV)	Limits dB(µV)	Margin (dB)	Remark
	0.197	47.45	0.20	47.65	63.76	16.11	
	0.406	52.60	0.22	52.82	57.73	4.91	
	0.621	26.31	0.22	26.53	56.00	29.47	OD
	0.830	18.47	0.24	18.71	56.00	37.29	QP
	18.232	40.94	0.72	41.66	60.00	18.34	
Line	23.888	43.88	0.86	44.74	60.00	15.26	
Line	0.197	37.26	0.20	37.46	53.76	16.30	
	0.406	42.38	0.22	42.60	47.73	5.13	
	0.621	16.49	0.22	16.71	46.00	29.29	AV
	0.830	11.32	0.24	11.56	46.00	34.44	
	18.232	30.36	0.72	31.08	50.00	18.92	
	23.888	33.72	0.86	34.58	50.00	15.42	
	0.194	48.66	0.20	48.86	63.84	14.98	
	0.408	52.77	0.22	52.99	57.68	4.69	
	0.621	27.77	0.22	27.99	56.00	28.01	QP
	1.236	18.41	0.25	18.66	56.00	37.34	Qr
	17.199	43.93	0.56	44.49	60.00	15.51	
Neutral	24.142	42.32	0.67	42.99	60.00	17.01	
Neutrai	0.194	40.13	0.20	40.33	53.84	13.51	
	0.408	44.26	0.22	44.48	47.68	3.20	AV
	0.621	19.68	0.22	19.90	46.00	26.10	
	1.236	10.36	0.25	10.61	46.00	35.39	
	17.199	35.83	0.56	36.39	50.00	13.61	
	24.142	34.56	0.67	35.23	50.00	14.77	

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EUT : LCD TV Temperature : 20° C

Model No. : LTDN40W07US Humidity : 46%RH

Serial No. : E2009031801 Date of Test : Mar 22, 2009

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	
	0.197	47.49	0.20	47.69	63.76	16.07		
	0.408	51.74	0.22	51.96	57.68	5.72		
	0.614	26.28	0.22	26.50	56.00	29.50	OD	
	0.822	17.97	0.24	18.21	56.00	37.79	QP	
	17.199	41.17	0.71	41.88	60.00	18.12		
Line	23.888	43.82	0.86	44.68	60.00	15.32		
Line	0.197	34.16	0.20	34.36	53.76	19.40		
	0.408	41.26	0.22	41.48	47.68	6.20		
	0.614	16.36	0.22	16.58	46.00	29.42	AV	
	0.822	12.00	0.24	12.24	46.00	33.76	AV	
	17.199	31.23	0.71	31.94	50.00	18.06		
	23.888	33.26	0.86	34.12	50.00	15.88		
	0.194	46.62	0.20	46.82	63.84	17.02		
	0.408	52.78	0.22	53.00	57.68	4.68		
	0.621	27.62	0.22	27.84	56.00	28.16	QP	
	0.830	19.54	0.23	19.77	56.00	36.23	Qr	
	17.199	43.19	0.56	43.75	60.00	16.25		
Neutral	23.636	41.23	0.66	41.89	60.00	18.11		
Neutrai	0.194	36.35	0.20	36.55	53.84	17.29		
	0.408	42.15	0.22	42.37	47.68	5.31		
	0.621	17.26	0.22	17.48	46.00	28.52	AX7	
	0.830	10.32	0.23	10.55	46.00	35.45	AV	
	17.199	33.62	0.56	34.18	50.00	15.82		
	23.636	31.26	0.66	31.92	50.00	18.08		

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EUT : LCD TV Temperature : 20° C

Model No. : LTDN40W07US Humidity : 46%RH

Serial No. : E2009031801 Date of Test : Mar 22, 2009

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	
	0.194	47.38	0.20	47.58	63.84	16.26		
	0.408	52.88	0.22	53.10	57.68	4.58		
	0.621	26.43	0.22	26.65	56.00	29.35	QP	
	0.830	18.36	0.24	18.60	56.00	37.40	Qr	
	18.232	41.79	0.72	42.51	60.00	17.49		
Line	23.888	45.44	0.86	46.30	60.00	13.70		
Line	0.194	37.26	0.20	37.46	53.84	16.38		
	0.408	42.15	0.22	42.37	47.68	5.31		
	0.621	16.59	0.22	16.81	46.00	29.19	AV	
	0.830	9.35	0.24	9.59	46.00	36.41		
	18.232	31.26	0.72	31.98	50.00	18.02		
	23.888	35.26	0.86	36.12	50.00	13.88		
	0.197	46.73	0.20	46.93	63.76	16.83		
	0.408	52.81	0.22	53.03	57.68	4.65		
	0.614	27.54	0.22	27.76	56.00	28.24	QP	
	0.822	19.13	0.23	19.36	56.00	36.64	Qr	
	18.232	43.27	0.55	43.82	60.00	16.18		
Neutral	23.888	44.38	0.67	45.05	60.00	14.95		
Neutrai	0.197	36.26	0.20	36.46	53.76	17.30		
	0.408	42.36	0.22	42.58	47.68	5.10		
	0.614	17.82	0.22	18.04	46.00	27.96	AV	
	0.822	10.35	0.23	10.58	46.00	35.42		
	18.232	33.96	0.55	34.51	50.00	15.49		
	23.888	34.36	0.67	35.03	50.00	14.97		

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EUT : LCD TV Temperature : 20° C

Model No. : LTDN40W07US Humidity : 46%RH

Serial No. : E2009031801 Date of Test : Mar 22, 2009

Test Mode : HDMI 640*480@60Hz

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(µV)	Limits dB(µV)	Margin (dB)	Remark	
	0.197	47.46	0.20	47.66	63.76	16.10		
	0.406	51.36	0.22	51.58	57.73	6.15		
	0.614	26.21	0.22	26.43	56.00	29.57	ΩD	
	0.830	17.14	0.24	17.38	56.00	38.62	QP	
	17.383	40.13	0.72	40.85	60.00	19.15		
Line	23.888	41.50	0.86	42.36	60.00	17.64		
Line	0.197	37.46	0.20	37.66	53.76	16.10		
	0.406	41.26	0.22	41.48	47.73	6.25		
	0.614	16.38	0.22	16.60	46.00	29.40	A T 7	
	0.830	10.32	0.24	10.56	46.00	35.44	AV	
	17.383	30.26	0.72	30.98	50.00	19.02		
	23.888	31.35	0.86	32.21	50.00	17.79		
	0.194	48.77	0.20	48.97	63.84	14.87		
	0.406	52.43	0.22	52.65	57.73	5.08		
	0.621	27.31	0.22	27.53	56.00	28.47	OD	
	0.830	18.71	0.23	18.94	56.00	37.06	QP	
	17.199	40.23	0.56	40.79	60.00	19.21		
Neutral	23.636	43.32	0.66	43.98	60.00	16.02		
Neutrai	0.194	38.59	0.20	38.79	53.84	15.05		
	0.406	42.36	0.22	42.58	47.73	5.15		
	0.621	17.35	0.22	17.57	46.00	28.43	AV	
	0.830	9.35	0.23	9.58	46.00	36.42		
	17.199	30.22	0.56	30.78	50.00	19.22		
	23.636	33.16	0.66	33.82	50.00	16.18		

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EUT : LCD TV Temperature : 20° C

Model No. : LTDN40W07US Humidity : 46%RH

Serial No. : E2009031801 Date of Test : Mar 22, 2009

Test Mode : HDMI 1024*768@60Hz

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(µV)	Limits dB(µV)	Margin (dB)	Remark	
	0.197	47.65	0.20	47.85	63.76	15.91		
	0.406	51.52	0.22	51.74	57.73	5.99		
	0.621	26.47	0.22	26.69	56.00	29.31	OD	
	0.830	17.59	0.24	17.83	56.00	38.17	QP	
	17.199	40.79	0.71	41.50	60.00	18.50		
Line	24.142	42.20	0.86	43.06	60.00	16.94		
Line	0.197	37.26	0.20	37.46	53.76	16.30		
	0.406	41.35	0.22	41.57	47.73	6.16	1	
	0.621	16.35	0.22	16.57	46.00	29.43	AV	
	0.830	11.36	0.24	11.60	46.00	34.40	111	
	17.199	31.20	0.71	31.91	50.00	18.09		
	24.142	32.17	0.86	33.03	50.00	16.97	_	
	0.197	48.54	0.20	48.74	63.76	15.02		
	0.406	52.39	0.22	52.61	57.73	5.12		
	0.614	27.32	0.22	27.54	56.00	28.46	QP	
	1.184	16.59	0.24	16.83	56.00	39.17	Qr	
	17.755	42.95	0.56	43.51	60.00	16.49		
Neutral	24.142	41.77	0.67	42.44	60.00	17.56		
Neutrai	0.197	38.46	0.20	38.66	53.76	15.10		
	0.406	42.36	0.22	42.58	47.73	5.15		
	0.614	17.68	0.22	17.90	46.00	28.10	AV	
	1.184	10.35	0.24	10.59	46.00	35.41		
	17.755	32.15	0.56	32.71	50.00	17.29		
	24.142	31.62	0.67	32.29	50.00	17.71		

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EUT : LCD TV Temperature : 20° C

Model No. : LTDN40W07US Humidity : 46%RH

Serial No. : E2009031801 Date of Test : Mar 22, 2009

Test Mode : HDMI 1680*1050@60Hz

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(µV)	Limits dB(µV)	Margin (dB)	Remark		
	0.197	48.36	0.20	48.56	63.76	15.20			
	0.402	52.47	0.22	52.69	57.81	5.12			
	0.621	26.44	0.22	26.66	56.00	29.34	OD		
	1.296	25.38	0.28	25.66	56.00	30.34	QP		
	18.232	41.30	0.72	42.02	60.00	17.98			
Line	23.888	45.23	0.86	46.09	60.00	13.91			
Line	0.197	38.56	0.20	38.76	53.76	15.00			
	0.402	42.68	0.22	42.90	47.81	4.91	AV		
	0.621	16.95	0.22	17.17	46.00	28.83			
	1.296	15.38	0.28	15.66	46.00	30.34			
	18.232	31.65	0.72	32.37	50.00	17.63			
	23.888	35.92	0.86	36.78	50.00	13.22			
	0.197	48.57	0.20	48.77	63.76	14.99			
	0.406	51.32	0.22	51.54	57.73	6.19			
	0.621	26.45	0.22	26.67	56.00	29.33	QP		
	0.830	18.07	0.23	18.30	56.00	37.70	Qr		
	17.199	41.98	0.56	42.54	60.00	17.46			
Neutral	24.142	44.23	0.67	44.90	60.00	15.10			
Neutrai	0.197	38.59	0.20	38.79	53.76	14.97			
	0.406	41.26	0.22	41.48	47.73	6.25			
	0.621	16.59	0.22	16.81	46.00	29.19	AV		
	0.830	11.23	0.23	11.46	46.00	34.54			
	17.199	31.06	0.56	31.62	50.00	18.38			
	24.142	34.16	0.67	34.83	50.00	15.17			

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EUT : LCD TV Temperature : 20° C

Model No. : LTDN40W07US Humidity : 46%RH

Serial No. : E2009031801 Date of Test : Mar 22, 2009

Test Mode : HDMI 1920*1080@60Hz

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(µV)	Limits dB(µV)	Margin (dB)	Remark	
	0.197	47.35	0.20	47.55	63.76	16.21		
	0.406	52.69	0.22	52.91	57.73	4.82		
	0.621	27.26	0.22	27.48	56.00	28.52	OD	
	1.433	23.37	0.29	23.66	56.00	32.34	QP	
	17.568	41.27	0.72	41.99	60.00	18.01		
Line	23.888	42.83	0.86	43.69	60.00	16.31		
Line	0.197	37.82	0.20	38.02	53.76	15.74		
	0.406	42.36	0.22	42.58	47.73	5.15		
	0.621	17.86	0.22	18.08	46.00	27.92	AV	
	1.433	13.65	0.29	13.94	46.00	32.06	7 V	
	17.568	31.68	0.72	32.40	50.00	17.60		
	23.888	32.68	0.86	33.54	50.00	16.46		
	0.194	47.43	0.20	47.63	63.84	16.21		
	0.408	51.81	0.22	52.03	57.68	5.65		
	0.621	26.67	0.22	26.89	56.00	29.11	QP	
	0.830	18.31	0.23	18.54	56.00	37.46	Qr	
	18.232	41.48	0.55	42.03	60.00	17.97		
Neutral	23.888	43.46	0.67	44.13	60.00	15.87		
Neutrai	0.194	34.36	0.20	34.56	53.84	19.28		
	0.408	41.02	0.22	41.24	47.68	6.44		
	0.621	16.38	0.22	16.60	46.00	29.40	AV	
	0.830	11.02	0.23	11.25	46.00	34.75		
	18.232	31.27	0.55	31.82	50.00	18.18		
	23.888	33.64	0.67	34.31	50.00	15.69		

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4 RADIATED EMISSION TEST

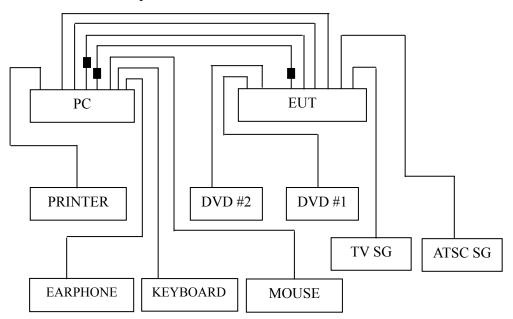
4.1 Test Equipment

The following test equipments are used during the radiated emission test in a semi-anechoic chamber:

				+	+	
Item	Туре	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Test Receiver	R&S	ESVS10	844594/001	Mar 07, 2009	Mar 07, 2010
2.	Preamplifier	Agilent	8447D	2944A10548	Mar 19, 2009	Sep 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	Е3	SET00200 9912M295-2		

4.2 Block Diagram of Test Setup

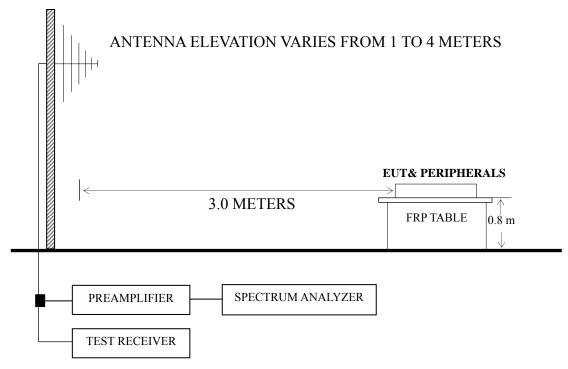
4.2.1 EUT and Peripherals



: Ferrite core

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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	Distance	Field strength limits				
(MHz)	(m)	(µV/m)	dB (μV/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 ($\mu V/m$) = 20 log Emission Level ($\mu V/m$)
- 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.

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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/HDMI 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.

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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	Data Page
D-Sub 640*480@60Hz	P25
D-Sub 1024*768@60Hz	P26
D-Sub 1680*1050@60Hz	P27
D-Sub 1920*1080@60Hz	P28
HDMI 640*480@60Hz	P29
HDMI 1024*768@60Hz	P30
HDMI 1680*1050@60Hz	P31
HDMI 1920*1080@60Hz	P32

- NOTE 1 Emission Level = Antenna Factor + Cable Loss + Meter Reading.(< 1GHz)
- NOTE 2 Emission Level = Antenna Factor + Cable Loss Preamp Factor + Meter Reading.(> 1GHz)
- NOTE 3 The emission levels that are 20dB below the official limit are not reported.
- NOTE $4 0^{\circ}$ 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 1920*1080@60Hz test mode. The worst emission at horizontal polarization was detected at 76.560 MHz with corrected signal level of 37.81 dB (μ V/m) (limit is 40.00dB (μ V/m)), when the antenna was 2.00 m height and the turntable was at 210°. The worst emission at vertical polarization was detected at 115.360 MHz with corrected signal level of 41.42 dB (μ V/m) (limit is 43.50 dB (μ V/m)), when the antenna was 2.00 m height and the turntable was at 50°.

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EUT : LCD TV Temperature : 22°C

Model No. : LTDN40W07US Humidity : 60%RH

Serial No. : E2009031801 Date of Test : Mar 21, 2009

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)
	30.970	10.09	19.03	0.57	29.69	40.00	10.31
	77.530	26.28	7.49	0.86	34.63	40.00	5.37
Horizontal	142.520	21.83	11.91	0.91	34.65	43.50	8.85
Попідопіаї	214.230	24.50	11.35	1.14	36.99	43.50	6.51
	538.460	21.21	18.42	2.46	42.09	46.00	3.91
	809.880	18.91	20.80	3.34	43.05	46.00	2.95
	33.880	18.14	17.44	0.61	36.19	40.00	3.81
	142.520	24.36	11.91	0.91	37.18	43.50	6.32
Vertical	215.270	23.51	11.39	1.14	36.04	43.50	7.46
vertical	321.970	18.53	14.50	1.66	34.69	46.00	11.31
	540.580	19.20	18.42	2.48	40.10	46.00	5.90
	809.880	17.80	20.80	3.34	41.94	46.00	4.06

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EUT : LCD TV Temperature : 22°C

Model No. : LTDN40W07US Humidity : 60%RH

Serial No. : E2009031801 Date of Test : Mar 21, 2009

Test Mode : D-Sub 1024*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)
	30.970	10.34	19.03	0.57	29.94	40.00	10.06
	87.230	24.62	8.96	0.86	34.44	40.00	5.56
Horizontal	152.220	28.00	11.09	0.93	40.02	43.50	3.48
Пописний	215.270	28.33	11.39	1.14	40.86	43.50	2.64
	517.840	22.00	18.12	2.42	42.54	46.00	3.46
	809.880	19.34	20.80	3.34	43.48	46.00	2.52
	31.940	17.26	18.49	0.59	36.34	40.00	3.66
	87.230	26.46	8.96	0.86	36.28	40.00	3.72
Vertical	151.610	28.20	11.14	0.93	40.27	43.50	3.23
vertical	214.300	22.98	11.35	1.14	35.47	43.50	8.03
	523.730	20.86	18.21	2.43	41.50	46.00	4.50
	809.880	19.59	20.80	3.34	43.73	46.00	2.27

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EUT : LCD TV Temperature : 22° C

Model No. : LTDN40W07US Humidity : 60%RH

Serial No. : E2009031801 Date of Test : Mar 21, 2009

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

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
	64.920	29.53	6.55	0.85		36.93	40.00	3.07	
	81.410	27.57	8.02	0.86		36.45	40.00	3.55	
	97.900	25.65	11.11	0.85		37.61	43.50	5.89	OD
	302.570	24.21	13.97	1.56		39.74	46.00	6.26	QP
	510.150	20.79	18.04	2.40		41.23	46.00	4.77	
Horizontal	809.880	18.71	20.80	3.34		42.85	46.00	3.15	
Пописний	1012.000	57.60	24.16	3.88	37.67	47.97	74.00	26.03	
	1167.000	54.96	24.68	4.16	37.25	46.55	74.00	27.45	
	1215.000	54.58	24.86	4.24	37.14	46.54	74.00	27.46	PK
	1327.000	51.94	25.24	4.42	36.89	44.71	74.00	29.29	1 K
	1549.000	57.37	26.15	4.81	36.44	51.89	74.00	22.11	
	1823.000	52.81	27.23	5.21	35.97	49.28	74.00	24.72	
	81.410	26.96	8.02	0.86		35.84	40.00	4.16	
	97.900	24.24	11.11	0.85		36.20	43.50	7.30	
	195.000	28.49	10.51	1.07		40.07	43.50	3.43	QP
	244.370	27.01	12.68	1.25		40.94	46.00	5.06	Qr
	522.760	21.37	18.21	2.43	-	42.01	46.00	3.99	
Vertical	809.880	17.47	20.80	3.34		41.61	46.00	4.39	
Vertical	1023.000	56.83	24.16	3.88	37.63	47.24	74.00	26.76	
	1208.000	47.45	24.80	4.21	37.15	39.31	74.00	34.69	
	1316.000	47.98	25.24	4.42	36.90	40.74	74.00	33.26	PK
	1511.000	46.40	26.00	4.74	36.51	40.63	74.00	33.37	
	1632.000	46.05	26.50	4.99	36.28	41.26	74.00	32.74	
	1823.000	47.58	27.23	5.21	35.97	44.05	74.00	29.95	

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EUT : LCD TV Temperature : 22° C

Model No. : LTDN40W07US Humidity : 60%RH

Serial No. : E2009031801 Date of Test : Mar 21, 2009

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

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
	76.560	29.58	7.36	0.87		37.81	40.00	2.19	
	134.760	27.52	12.30	0.90		40.72	43.50	2.78	
	154.160	29.04	10.94	0.94		40.92	43.50	2.58	ΩD
	219.150	28.00	11.57	1.15	-	40.72	46.00	5.28	QP
	511.120	20.43	18.04	2.40	1	40.87	46.00	5.13	
Horizontal	809.880	16.92	20.80	3.34	1	41.06	46.00	4.94	
Tiorizoniai	1020.000	60.03	24.16	3.88	37.64	50.43	74.00	23.57	
	1056.000	58.91	24.27	3.96	37.54	49.60	74.00	24.40	PK
	1167.000	54.88	24.68	4.16	37.25	46.47	74.00	27.53	
	1359.000	49.23	25.38	4.48	36.82	42.27	74.00	31.73	
	1530.000	48.03	26.07	4.78	36.47	42.41	74.00	31.59	
	1823.000	47.55	27.23	5.21	35.97	44.02	74.00	29.98	
	58.130	28.17	6.96	0.82		35.95	40.00	4.05	
	76.800	29.21	7.41	0.86	-	37.48	40.00	2.52	
	115.360	27.83	12.71	0.88	-	41.42	43.50	2.08	QP
	134.760	27.93	12.30	0.90	1	41.13	43.50	2.37	Q1
	509.180	19.43	18.01	2.40	1	39.84	46.00	6.16	
Vertical	809.880	18.40	20.80	3.34		42.54	46.00	3.46	
Vertical	1064.000	59.86	24.33	3.99	37.52	50.66	74.00	23.34	
	1180.000	53.57	24.74	4.18	37.22	45.27	74.00	28.73	
	1384.000	56.25	25.51	4.54	36.76	49.54	74.00	24.46	PK
	1569.000	53.47	26.22	4.85	36.40	48.14	74.00	25.86	
	1697.000	54.18	26.78	5.11	36.17	49.90	74.00	24.10	
	1823.000	54.53	27.23	5.21	35.97	51.00	74.00	23.00	

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EUT : LCD TV Temperature : 22° C

Model No. : LTDN40W07US Humidity : 60%RH

Serial No. : E2009031801 Date of Test : Mar 21, 2009

Test Mode : HDMI 640*480@60Hz

Polarization	Frequency (MHz)	Meter Reading dB (µV)	Antenna Factor (dB/m)		Emission Level dB (µV/m)	Limits dB ($\mu V/m$)	Margin (dB)
	77.530	23.70	7.49	0.86	32.05	40.00	7.95
	125.000	25.00	12.76	0.89	38.65	43.50	4.85
Horizontal	215.270	28.83	11.39	1.14	41.36	43.50	2.14
попиона	428.670	21.40	16.89	2.14	40.43	46.00	5.57
	555.420	22.00	18.65	2.51	43.16	46.00	2.84
	809.880	19.51	20.80	3.34	43.65	46.00	2.35
	31.940	18.08	18.49	0.59	37.16	40.00	2.84
	216.240	25.78	11.43	1.14	38.35	46.00	7.65
Vertical	428.670	20.12	16.89	2.14	39.15	46.00	6.85
	515.970	22.41	18.09	2.42	42.92	46.00	3.08
	555.740	21.97	18.65	2.51	43.13	46.00	2.87
	809.880	17.74	20.80	3.34	41.88	46.00	4.12

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EUT : LCD TV Temperature : 22°C

Model No. : LTDN40W07US Humidity : 60%RH

Serial No. : E2009031801 Date of Test : Mar 21, 2009

Test Mode : <u>HDMI 1024*768@60Hz</u>

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)
	194.900	25.71	10.51	1.07	37.29	43.50	6.21
	214.300	27.15	11.35	1.14	39.64	43.50	3.86
Horizontal	389.870	21.17	16.30	2.00	39.47	46.00	6.53
Пописний	538.280	21.36	18.39	2.46	42.21	46.00	3.79
	809.880	19.15	20.80	3.34	43.29	46.00	2.71
	909.790	18.08	21.76	3.56	43.40	46.00	2.60
	30.970	15.44	19.03	0.57	35.04	40.00	4.96
	129.910	19.35	12.52	0.90	32.77	43.50	10.73
Vertical	215.270	25.13	11.39	1.14	37.66	43.50	5.84
vertical	389.870	20.51	16.30	2.00	38.81	46.00	7.19
	538.280	21.76	18.39	2.46	42.61	46.00	3.39
	809.880	18.90	20.80	3.34	43.04	46.00	2.96

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EUT : LCD TV Temperature : 22° C

Model No. : LTDN40W07US Humidity : 60%RH

Serial No. : E2009031801 Date of Test : Mar 21, 2009

Test Mode : HDMI 1680*1050@60Hz

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
	31.940	17.36	18.49	0.59		36.44	40.00	3.56	
	215.270	24.51	11.39	1.14		37.04	43.50	6.46	OD
	445.160	19.23	17.14	2.20		38.57	46.00	7.43	
	537.310	20.97	18.39	2.46		41.82	46.00	4.18	QP
	741.010	17.95	20.13	3.17		41.25	46.00	4.75	
Horizontal	809.880	19.54	20.80	3.34		43.68	46.00	2.32	
попідопіаї	1020.000	61.03	24.16	3.88	37.64	51.43	74.00	22.57	PK
	1057.000	59.44	24.27	3.96	37.54	50.13	74.00	23.87	
	1166.000	51.65	24.68	4.16	37.26	43.23	74.00	30.77	
	1328.000	50.41	25.24	4.42	36.88	43.19	74.00	30.81	
	1530.000	48.71	26.07	4.78	36.47	43.09	74.00	30.91	
	1700.000	45.85	26.78	5.11	36.17	41.57	74.00	32.43	
	148.340	24.37	11.41	0.92		36.70	43.50	6.80	
	214.300	26.24	11.35	1.14		38.73	43.50	4.77	
	445.160	23.54	17.14	2.20		42.88	46.00	3.12	QP
	537.310	22.71	18.39	2.46		43.56	46.00	2.44	Qr
	741.010	18.58	20.13	3.17		41.88	46.00	4.12	
Vertical	888.960	17.40	21.60	3.50		42.50	46.00	3.50	
Vertical	1063.000	61.25	24.33	3.99	37.53	52.04	74.00	21.96	
	1200.000	54.46	24.80	4.21	37.17	46.30	74.00	27.70	PK
	1386.000	55.11	25.51	4.54	36.76	48.40	74.00	25.60	
	1549.000	55.75	26.15	4.81	36.44	50.27	74.00	23.73	
	1697.000	52.65	26.78	5.11	36.17	48.37	74.00	25.63	
	1823.000	54.71	27.23	5.21	35.97	51.18	74.00	22.82	

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EUT : LCD TV Temperature : 22° C

Model No. : LTDN40W07US Humidity : 60%RH

Serial No. : E2009031801 Date of Test : Mar 21, 2009

Test Mode : HDMI 1920*1080@60Hz

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
	148.340	22.31	11.41	0.92		34.64	43.50	8.86	OP
	215.270	28.30	11.39	1.14		40.83	43.50	2.67	
	445.160	21.79	17.14	2.20		41.13	46.00	4.87	
	537.310	22.06	18.39	2.46		42.91	46.00	3.09	QP
	741.010	20.19	20.13	3.17		43.49	46.00	2.51	
Horizontal	809.880	19.43	20.80	3.34		43.57	46.00	2.43	
попідопіаї	1007.000	60.39	24.10	3.84	37.68	50.65	74.00	23.35	PK.
	1082.000	57.51	24.38	4.02	37.47	48.44	74.00	25.56	
	1348.000	53.57	25.31	4.45	36.83	46.50	74.00	27.50	
	1549.000	55.91	26.15	4.81	36.44	50.43	74.00	23.57	
	1675.000	53.39	26.71	5.08	36.21	48.97	74.00	25.03	
	1823.000	51.56	27.23	5.21	35.97	48.03	74.00	25.97	
	148.340	21.71	11.41	0.92		34.04	43.50	9.46	
	214.300	23.91	11.35	1.14		36.40	43.50	7.10	
	445.160	23.23	17.14	2.20		42.57	46.00	3.43	ΩD
	537.310	21.81	18.39	2.46		42.66	46.00	3.34	QP
	592.600	20.81	19.11	2.58		42.50	46.00	3.50	
Vertical	809.880	18.04	20.80	3.34		42.18	46.00	3.82	
Vertical	1019.000	58.00	24.16	3.88	37.65	48.39	74.00	25.61	
	1057.000	57.69	24.27	3.96	37.54	48.38	74.00	25.62	PK
	1175.000	52.37	24.68	4.16	37.23	43.98	74.00	30.02	
	1358.000	48.71	25.38	4.48	36.82	41.75	74.00	32.25	
	1583.000	47.01	26.29	4.88	36.38	41.80	74.00	32.20	
	1823.000	49.52	27.23	5.21	35.97	45.99	74.00	28.01	

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5 DEVIATION TO TEST SPECIFICATIONS

None.

Audix Technology (Shanghai) Co., Ltd. Report No.: ACI-F09025

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6 DEBUG DESCRIPTION

The following components are used during the countermeasure procedures:

Name	M/N Specifications (mm)		Manufacturer	Location	
Ferrite Core	ZCAT2132-1130	121*32*11	ROH	See External Photo Figure 17, 18, 19	
Aluminum foil	DBA40X100	40*100	ROH	See External Photo Figure 17	