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

LED LCD TV

Model No.	Brand
40K25DW, 40H4C, 40H4, 40H4E	Hisense

FCC ID: W9HLCDD0042

Prepared For: Hisense Electric Co., Ltd.

No.218 Qianwangang Road, Economy & Technology

Development Zone, Qingdao, China

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

3F and 4F, 34Bldg 680 Guiping Rd,

Caohejing Hi-Tech Park, Shanghai 200233, China

Tel: +86-21-64955500

Fax: +86-21-64955491

Report No.: ACI-F14089

Date of Test: May 27 – 30, 2014 Date of Report: Jun 10, 2014

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TEST REPORT FOR FCC CERTIFICATE

Applicant

Hisense Electric Co., Ltd.

Manufacturer

Hisense Electric Co., Ltd.

Factory #1

Hisense Electric Co., Ltd.

Factory #2

Authorized Signature EMC

Tatung Mexico S.A. de C.V.

EUT Description

LED LCD TV

Model No.	Brand	Power Supply
40K25DW, 40H4C, 40H4, 40H4E	Hisense	120V/60Hz

Test Procedure Used:

FCC RULES AND REGULATIONS PART 15 SUBPART B CLASS B OCTOBER 2013 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 Sec2.1) which was tested in 3m anechoic chamber May 27 - 30, 2014 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 functions are contained in No.F14088, a Verification report.

Date of Test:	May 27 – 30, 2014	Date of Report :	Jun 10, 2014
Producer:	Zunly Zhu EMILY ZHU / Assistant		
Review: For and Audix Technology (Shang	BYRON WU / Deputy Assistant Manage on behalf of hai) Co., Ltd.	er	
Signatory:	DIO YANG / 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
Conducted Disturbance at the Mains Terminal	FCC RULES AND REGULATIONS PART 15 SUBPART B OCTOBER 2013 AND ANSI C63.4-2003	15.107(a) Class B	Pass
Radiated Disturbance	FCC RULES AND REGULATIONS PART 15 SUBPART B OCTOBER 2013 AND ANSI C63.4-2003	15.109(a) Class B	Pass

2 GENERAL INFORMATION

2.1 Description of Equipment Under Test

Description : LED LCD TV

Type of EUT : ☑ Production ☐ Pre-product ☐ Pro-type

Model No. : 40K25DW, 40H4C, 40H4, 40H4E

Note : The above models are all the same except for

model name.

40H4 model is tested and recorded in the report.

Brand Name : Hisense

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

Factory #1 : Hisense Electric Co., Ltd.

No.218 Qianwangang Road, Economy &

Technology Development Zone, Qingdao, China

Factory #2 : Tatung Mexico S.A. de C.V.

Miguel Catalán 420, Parque Industrial Rio Bravo,

Cd. Juarez, Chih., CP 32557

LCD Panel : Manufacturer : Hisense

M/N : HD400DF-E37(010)\S1.B2

Max Resolution : 1920*1080@60Hz

HDMI Cable : Shielded, Detachable, 1.00m

Power Cord : Unshielded, Detachable, 1.80m

Remark:

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

Side Port:

(1) One HDMI1(ARC) Port

: Connected with PC

(2) One Ant/Cable Port

: Connected with Antenna or ATSC SG / TV

SG

(3) One Earphone/AUDIO OUT Port

: Connected with Earphone

(4) One DIGITAL AUDIO OUT Port

: Connected with DVD PLAYER #2

(5) One component of AV IN Port

: Connected with DVD PLAYER#1

Bottom Port:

(6) One USB Port

: Connected with U-Disk

(7) One HDMI3 Port

: Connected with DVD PLAYER#1

(8) One HDMI2 Port

: Connected with DVD PLAYER#2

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;

BSMI, 3C, MIC

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 Modem

Manufacturer : TP-LINK
Model Number : TM-EC5658V
Serial Number : 07123301053

Data Cable : Shielded, Detachable, 1.8m Certificate : FCC DoC, CE/EMC, CCC

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

2.2.8 DVD PLAYER#1

Manufacturer : PHILIPS
Model Number : DVP3986F

Model Number: DVP3986K/93 Serial Number: KX1A0902120108

Certificate : FCC DoC, CE/EMC, CCC

2.2.9 DVD PLAYER#2

Manufacturer : PHILIPS

Model Number: DVP3986K/93 Serial Number: KX1A0902120082

Certificate : FCC DoC, CE/EMC, CCC

2.2.10 Earphone

Manufacturer : Skullcandy

Model Number: FMJ

2.2.11 U-DISK

Manufacturer : LG Model Number : 1GB

2.3 Description of Test Facility

Site Description : Sept. 17, 1998 file on (No.3 3m Chamber) : Mar 16, 2012 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 = 2.77 dB

Radiated Emission Expanded Uncertainty (30-200MHz):

U = 4.17 dB (Horizontal)

U = 4.02 dB (Vertical)

Radiated Emission Expanded Uncertainty (200M-1GHz):

U = 3.38 dB (Horizontal)

U = 3.28 dB (Vertical)

Radiated Emission Expanded Uncertainty (Above 1GHz):

U = 4.68 dB (Horizontal)

U = 4.87 dB (Vertical)

3 CONDUCTED EMISSION TEST

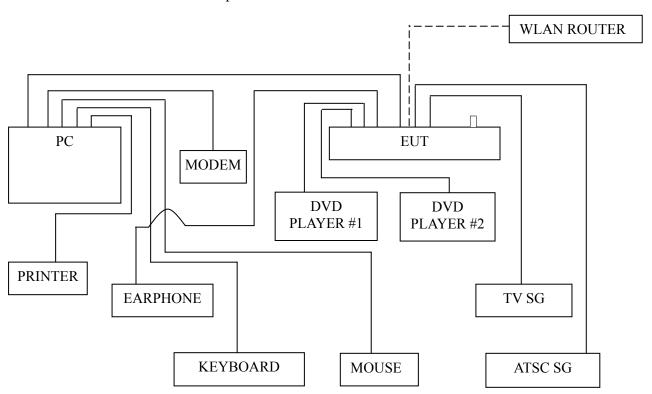
3.1 Test Equipment

The following test equipments are used during the conducted emission test in a shielded room:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Test Receiver	R&S	ESCI	101303	Sep 11, 2013	Sep 10, 2014
2.	Artificial Mains Network (AMN)	R&S	ENV4200	100125	Jun 27, 2013	Jun 26, 2014
3.	Line Impedance Stabilization Network (LISN)	Kyoritsu	KNW-407	8-1280-4	Mar 20, 2014	Mar 19, 2015
4.	50Ω Coaxial Switch	Anritsu	MP59B	6200426389	Mar 18, 2014	Sep 17, 2014
5.	50Ω Terminator	Anritsu	BNC	001	Mar 20, 2014	Mar 19, 2015
6.	Software	Audix	E3	6.111206		

3.2 Block Diagram of Test Setup

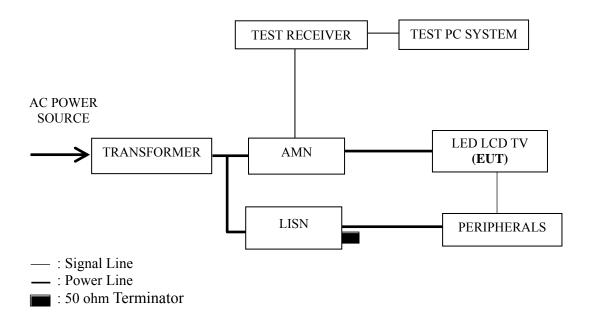
3.2.1 EUT & Peripherals



☐: U-Disk

·--: WLAN signal

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.

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 HDMI Input).
- 3.5.5 In USB Play mode, set the EUT play digital media from U-Disk.
- 3.5.6 The WLAN function is operating to communicate with WLAN router.
- 3.5.7 The other peripherals devices were driven and operated during the test.
- 3.5.8 The test modes are as follows:

Test Mode
HDMI 1920*1080@60Hz
HDMI 1280*1024@60Hz
HDMI 640*480@60Hz
USB Play

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	Data Page
HDMI 1920*1080@60Hz	P13
HDMI 1280*1024@60Hz	P14
HDMI 640*480@60Hz	P15
USB Play	P16

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 USB Play test mode. The worst emission is detected at 0.558 MHz (Quasi-Peak Value) with corrected signal level of 44.33 dB (μ V) (limit is 56.00 dB (μ V)), when the Neutral of the EUT is connected to AMN.

Test Mode : HDMI 1920*1080@60Hz Date of Test : May 30, 2014

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(µV)	Limits dB(µV)	Margin (dB)	Remark
	0.198	24.30	10.54	34.84	63.71	28.87	
	0.524	31.50	10.44	41.94	56.00	14.06	
	1.213	26.40	10.40	36.80	56.00	19.20	OD
	2.345	25.00	10.44	35.44	56.00	20.56	QP
	6.431	33.40	10.42	43.82	60.00	16.18	
Lina	19.280	23.29	10.60	33.89	60.00	26.11	
Line	0.198	16.40	10.54	26.94	53.71	26.77	
	0.524	17.70	10.44	28.14	46.00	17.86	AV
	1.213	10.10	10.40	20.50	46.00	25.50	
	2.345	14.70	10.44	25.14	46.00	20.86	
	6.431	25.30	10.42	35.72	50.00	14.28	
	19.280	16.79	10.60	27.39	50.00	22.61	
	0.332	25.81	10.46	36.27	59.40	23.13	
	0.546	33.30	10.43	43.73	56.00	12.27	
	0.890	28.20	10.41	38.61	56.00	17.39	QP
	2.075	27.70	10.46	38.16	56.00	17.84	
	6.061	32.00	10.48	42.48	60.00	17.52	
Neutral	19.450	32.70	10.71	43.41	60.00	16.59	
Neutrai	0.332	16.11	10.46	26.57	49.40	22.83	
	0.546	19.10	10.43	29.53	46.00	16.47	AV
	0.890	13.70	10.41	24.11	46.00	21.89	
	2.075	15.00	10.46	25.46	46.00	20.54	
	6.061	24.90	10.48	35.38	50.00	14.62	
	19.450	24.10	10.71	34.81	50.00	15.19	

Model No. : 40H4 Humidity : 48%RH

Test Mode : HDMI 1280*1024@60Hz Date of Test : May 30, 2014

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(µV)	Margin (dB)	Remark
	0.199	24.80	10.54	35.34	63.67	28.33	
	0.524	31.90	10.44	42.34	56.00	13.66	
	1.449	24.30	10.40	34.70	56.00	21.30	ΩD
	2.334	25.60	10.44	36.04	56.00	19.96	QP
	6.056	30.61	10.40	41.01	60.00	18.99	
Line	10.233	22.90	10.52	33.42	60.00	26.58	
Line	0.199	17.30	10.54	27.84	53.67	25.83	
	0.524	18.00	10.44	28.44	46.00	17.56	
	1.449	17.00	10.40	27.40	46.00	18.60	AV
	2.334	15.10	10.44	25.54	46.00	20.46	
	6.056	23.51	10.40	33.91	50.00	16.09	
	10.233	16.70	10.52	27.22	50.00	22.78	
	0.277	26.30	10.50	36.80	60.90	24.10	
	0.536	33.10	10.43	43.53	56.00	12.47	
	1.184	27.10	10.41	37.51	56.00	18.49	QP
	2.719	27.30	10.48	37.78	56.00	18.22	
	6.064	32.10	10.48	42.58	60.00	17.42	
Novema 1	19.290	32.09	10.71	42.80	60.00	17.20	
Neutral	0.277	16.20	10.50	26.70	50.90	24.20	
	0.536	19.00	10.43	29.43	46.00	16.57	
	1.184	13.60	10.41	24.01	46.00	21.99	AV
	2.719	15.80	10.48	26.28	46.00	19.72	
	6.064	24.80	10.48	35.28	50.00	14.72	
	19.290	23.89	10.71	34.60	50.00	15.40	

Model No. : 40H4 Humidity : 48%RH

Test Mode : HDMI 640*480@60Hz Date of Test : May 30, 2014

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(µV)	Limits dB(µV)	Margin (dB)	Remark
	0.204	24.80	10.54	35.34	63.45	28.11	
	0.526	32.10	10.44	42.54	56.00	13.46	
	1.210	25.90	10.40	36.30	56.00	19.70	ΩD
	2.358	25.80	10.44	36.24	56.00	19.76	QP
	6.069	31.01	10.40	41.41	60.00	18.59	
Time	19.224	23.49	10.60	34.09	60.00	25.91	
Line	0.204	17.60	10.54	28.14	53.45	25.31	
	0.526	18.40	10.44	28.84	46.00	17.16	AV
	1.210	10.70	10.40	21.10	46.00	24.90	
	2.358	13.90	10.44	24.34	46.00	21.66	
	6.069	24.31	10.40	34.71	50.00	15.29	
	19.224	17.19	10.60	27.79	50.00	22.21	
	0.283	26.59	10.50	37.09	60.72	23.63	
	0.592	31.19	10.43	41.62	56.00	14.38	
	0.890	28.50	10.41	38.91	56.00	17.09	OD
	1.781	27.20	10.44	37.64	56.00	18.36	QP
	6.056	32.10	10.48	42.58	60.00	17.42	
NI ovetno 1	12.384	29.09	10.64	39.73	60.00	20.27	
Neutral	0.283	14.69	10.50	25.19	50.72	25.53	
	0.592	14.80	10.43	25.23	46.00	20.77	
	0.890	13.40	10.41	23.81	46.00	22.19	AV
	1.781	15.80	10.44	26.24	46.00	19.76	
	6.056	24.40	10.48	34.88	50.00	15.12	
	12.384	22.39	10.64	33.03	50.00	16.97	

Model No. : 40H4 Humidity : 48%RH

Test Mode : USB Play Date of Test : May 30, 2014

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(µV)	Limits dB(µV)	Margin (dB)	Remark
	0.196	25.20	10.54	35.74	63.77	28.03	
	0.522	32.20	10.44	42.64	56.00	13.36	
	1.210	26.20	10.40	36.60	56.00	19.40	OD
	2.110	25.40	10.44	35.84	56.00	20.16	QP
	6.065	30.81	10.40	41.21	60.00	18.79	
Line	19.224	22.49	10.60	33.09	60.00	26.91	
Line	0.196	16.10	10.54	26.64	53.77	27.13	
	0.522	18.00	10.44	28.44	46.00	17.56	
	1.210	11.10	10.40	21.50	46.00	24.50	AV
	2.110	13.60	10.44	24.04	46.00	21.96	
	6.065	23.21	10.40	33.61	50.00	16.39	
	19.224	16.69	10.60	27.29	50.00	22.71	
	0.283	26.69	10.50	37.19	60.72	23.53	
	0.558	33.90	10.43	44.33	56.00	11.67	
	1.210	28.10	10.41	38.51	56.00	17.49	OD
	2.707	26.80	10.48	37.28	56.00	18.72	QP
	6.061	31.90	10.48	42.38	60.00	17.62	
Neutral	19.224	32.19	10.71	42.90	60.00	17.10	
Neutrai	0.283	14.79	10.50	25.29	50.72	25.43	
	0.558	19.30	10.43	29.73	46.00	16.27	
	1.210	13.60	10.41	24.01	46.00	21.99	AV
	2.707	15.90	10.48	26.38	46.00	19.62	
	6.061	24.30	10.48	34.78	50.00	15.22	
	19.224	23.89	10.71	34.60	50.00	15.40	

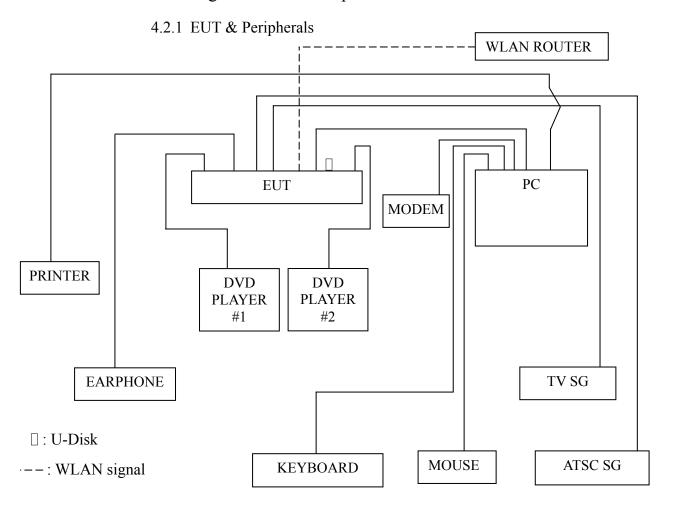
4 RADIATED EMISSION TEST

4.1 Test Equipment

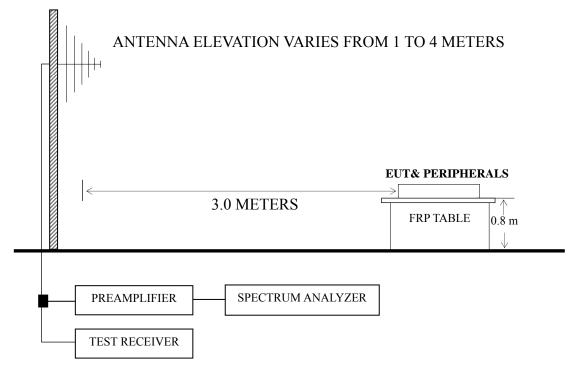
The following test equipments are used during the radiated emission test in a semi-anechoic chamber:

Item	Туре	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Test Receiver	R&S	ESCI	101302	Sep 03, 2013	Sep 02, 2014
2.	Preamplifier	Agilent	8447D	2944A10548	Mar 18, 2014	Sep 17, 2014
3.	Preamplifier	HP	8449B	3008A00864	Mar 20, 2014	Mar 19, 2015
4.	Bi-log Antenna	TESEQ	CBL6112D	23193	May 03, 2014	May 02, 2015
5.	Horn Antenna	EMCO	3115	9607-4878	May 11, 2014	May 10, 2015
6.	Spectrum	Agilent	E7405A	MY45106600	Nov 11, 2013	Nov 10, 2014
7.	50 Coaxial Switch	Anritsu	MP59B	6200426390	Mar 18, 2014	Sep 17, 2014
8.	Software	Audix	E3	6.2007-9-10		

4.2 Block Diagram of Test Setup



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 (μ V/m) = 20 log Emission Level (μ 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.
- 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 ESCI was set at 120 kHz.

The frequency range from 30 MHz to 1000MHz was checked for all test modes.

The frequency range from 1 GHz to 24 GHz (10^{th} harmonic of the 2.4GHz RF function) was checked for worst test mode in 30 - 1000 MHz test.

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	Data Page
HDMI 1920*1080@60Hz	P21 – P22
HDMI 1280*1024@60Hz	P23
HDMI 640*480@60Hz	P24
USB Play	P25

- NOTE 1 Emission Level = Antenna Factor + Cable Loss + Meter Reading. (< 1GHz); Emission Level = Antenna Factor + Cable Loss – Preamp Factor + Meter Reading. (> 1GHz)
- NOTE 2 All readings are Quasi-Peak values below or equal to 1GHz, Peak and Average values above 1GHz.
- NOTE $3-0^\circ$ was the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.

NOTE 4 – The worst case is for HDMI 1920*1080@60Hz test mode. The worst emission at horizontal polarization was detected at 136.939 MHz with corrected signal level of 35.79 dB (μ V/m) (limit is 43.50 dB (μ V/m)), when the antenna was 1.20 m height and the turntable was at 150°. The worst emission at vertical polarization was detected at 211.527 MHz with corrected signal level of 35.42 dB (μ V/m) (limit is 43.50 dB (μ V/m)) and at 742.259 MHz with corrected signal level of 37.92 dB (μ V/m) (limit is 46.00 dB (μ V/m)), when the antenna was 1.00 m height and the turntable was at 60°.

Model No. : 40H4 Humidity : 60%RH

Test Mode : HDMI 1920*1080@60Hz Date of Test : May 27, 2014

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (µV/m)	Limits dB ($\mu V/m$)	Margin (dB)	Remark	
	78.413	22.93	6.71	1.05		30.69	40.00	9.31		
	136.939	23.56	10.65	1.58		35.79	43.50	7.71		
	372.005	16.45	14.85	2.66		33.96	46.00	12.04	OD	
	556.774	12.93	19.10	3.10		35.13	46.00	10.87	QP	
	742.259	14.34	18.87	3.57		36.78	46.00	9.22		
	925.756	12.91	19.30	4.59		36.80	46.00	9.20		
	1033.000	48.89	23.82	4.92	38.13	39.50	74.00	34.50		
	1078.000	47.73	24.00	4.98	38.03	38.68	74.00	35.32	i	
Horizontal	1254.000	45.86	24.79	5.25	37.61	38.29	74.00	35.71	PK	
	1386.000	45.69	25.29	5.55	37.23	39.30	74.00	34.70	I K	
	1521.000	45.77	25.83	5.64	36.85	40.39	74.00	33.61		
	1697.000	49.58	27.85	5.97	36.51	46.89	74.00	27.11		
	1033.000	36.00	23.82	4.92	38.13	26.61	54.00	27.39		
	1078.000	34.77	24.00	4.98	38.03	25.72	54.00	28.28		
	1254.000	32.18	24.79	5.25	37.61	24.61	54.00	29.39	AXI	
	1386.000	32.66	25.29	5.55	37.23	26.27	54.00	27.73	AV	
	1521.000	32.91	25.83	5.64	36.85	27.53	54.00	26.47		
	1697.000	36.70	27.85	5.97	36.51	34.01	54.00	19.99		

Model No. : 40H4 Humidity : 60%RH

Test Mode : HDMI 1920*1080@60Hz Date of Test : May 27, 2014

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (µV/m)	Limits dB ($\mu V/m$)	Margin (dB)	Remark	
	30.424	12.24	18.38	0.66		31.28	40.00	8.72		
	211.527	25.81	7.60	2.01		35.42	43.50	8.08		
	444.851	16.46	17.15	2.82		36.43	46.00	9.57	OD	
	593.050	12.80	18.50	3.20		34.50	46.00	11.50	QP	
	742.259	15.48	18.87	3.57		37.92	46.00	8.08		
	890.728	11.59	19.80	4.43		35.82	46.00	10.18		
	1014.000	51.49	23.75	4.91	38.17	41.98	74.00	32.02		
	1141.000	46.16	24.26	5.05	37.89	37.58	74.00	36.42		
Vertical	1219.000	45.77	24.63	5.15	37.69	37.86	74.00	36.14	PK	
	1444.000	45.55	25.46	5.61	37.05	39.57	74.00	34.43	I K	
	1560.000	45.60	26.25	5.65	36.77	40.73	74.00	33.27		
	1650.000	46.10	27.25	5.81	36.58	42.58	74.00	31.42		
	1014.000	38.27	23.75	4.91	38.17	28.76	54.00	25.24		
	1141.000	33.49	24.26	5.05	37.89	24.91	54.00	29.09		
	1219.000	32.15	24.63	5.15	37.69	24.24	54.00	29.76	AX/	
	1444.000	32.67	25.46	5.61	37.05	26.69	54.00	27.31	AV	
	1560.000	32.68	26.25	5.65	36.77	27.81	54.00	26.19		
	1650.000	33.91	27.25	5.81	36.58	30.39	54.00	23.61		

Model No. : 40H4 Humidity : 60%RH

Test Mode : HDMI 1280*1024@60Hz Date of Test : May 27, 2014

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)
	141.330	22.70	10.30	1.60	34.60	43.50	8.90
	223.733	26.57	8.43	2.08	37.08	46.00	8.92
Horizontal	372.005	18.95	14.85	2.66	36.46	46.00	9.54
Попідопіаї	444.851	13.52	17.15	2.82	33.49	46.00	12.51
	539.478	12.17	19.50	3.06	34.73	46.00	11.27
	665.804	14.20	19.30	3.44	36.94	46.00	9.06
	33.211	13.43	16.25	0.70	30.38	40.00	9.62
	71.330	24.10	5.97	0.95	31.02	40.00	8.98
Vertical	214.514	24.73	7.60	2.03	34.36	43.50	9.14
vertical	372.005	17.39	14.85	2.66	34.90	46.00	11.10
	446.414	16.19	17.07	2.82	36.08	46.00	9.92
	595.133	14.51	18.50	3.20	36.21	46.00	9.79

Model No. : 40H4 Humidity : 60%RH

Polarization	Frequency (MHz)	Meter Reading dB (µV)	Antenna Factor (dB/m)		Emission Level dB (µV/m)	Limits dB ($\mu V/m$)	Margin (dB)
	71.330	24.34	5.97	0.95	31.26	40.00	8.74
	136.939	23.11	10.65	1.58	35.34	43.50	8.16
Horizontal	211.527	23.20	7.60	2.01	32.81	43.50	10.69
Horizoniai	372.005	16.32	14.85	2.66	33.83	46.00	12.17
	593.050	10.94	18.50	3.20	32.64	46.00	13.36
	916.069	9.24	19.57	4.59	33.40	46.00	12.60
	31.399	12.94	17.15	0.67	30.76	40.00	9.24
	211.527	23.09	7.60	2.01	32.70	43.50	10.80
Vertical	446.414	14.26	17.07	2.82	34.15	46.00	11.85
vertical	595.133	9.72	18.50	3.20	31.42	46.00	14.58
	709.182	8.38	19.80	3.55	31.73	46.00	14.27
	968.934	6.69	20.57	4.78	32.04	54.00	21.96

Model No. : 40H4 Humidity : 60%RH

Test Mode : USB Play Date of Test : May 27, 2014

Polarization	Frequency (MHz)	Meter Reading dB (µV)	Antenna Factor (dB/m)		Emission Level dB (µV/m)	Limits dB ($\mu V/m$)	Margin (dB)
	73.103	23.17	6.24	0.97	30.38	40.00	9.62
	173.814	21.20	8.32	1.80	31.32	43.50	12.18
Horizontal	370.702	16.36	14.85	2.65	33.86	46.00	12.14
Попідопіаї	572.614	10.50	19.25	3.14	32.89	46.00	13.11
	711.674	8.90	19.68	3.55	32.13	46.00	13.87
	890.728	9.53	19.80	4.43	33.76	46.00	12.24
	35.375	12.78	15.74	0.72	29.24	40.00	10.76
	65.803	23.40	4.88	0.91	29.19	40.00	10.81
Vertical	116.540	17.57	11.54	1.46	30.57	43.50	12.93
vertical	280.024	15.29	12.50	2.40	30.19	46.00	15.81
	375.939	13.58	15.00	2.66	31.24	46.00	14.76
	636.134	9.21	18.45	3.35	31.01	46.00	14.99

5	DEVIA	TION TO	TECT	SPECIFICA	TIONS
-7	1/11/VIA		1,1,7	A	

None.