

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

LED LCD TV

Brand	Model No.
Hisense	HU43K300UW
	43H7C
	43H7C+

FCC ID : W9HLCDD0048

Prepared For : Hisense Electric Co., Ltd.
No.218 Qianwangang Road, Economy & Technology
Development Zone, Qingdao, China

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Report No. : ACI-F15252
Date of Test : Dec 15 – 18, 2015
Date of Report : Dec 25, 2015

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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 : Tatung Mexico S.A. de C.V.
Factory #3 : HISENSE ELECTRONICA MEXICO, S.A. DE C.V.
EUT Description : LED LCD TV

Model No.	Brand	Power Supply
HU43K300UW	Hisense	120V/60Hz
43H7C		
43H7C+		

Test Procedure Used:

*FCC RULES AND REGULATIONS PART 15 SUBPART B CLASS B OCTOBER 2014
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 Dec 15 – 18, 2015 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.F15251, a Verification report.

Date of Test : Dec 15 – 18, 2015 Date of Report : Dec 25, 2015

Producer : HUIMIN YAN
HUIMIN YAN / Assistant

Review : SAMMY CHEN
SAMMY CHEN / Manager



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

Signatory : SAMMY CHEN
Authorized Signature EMC BYRON KWO / Assistant General 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 2014 AND ANSI C63.4-2003	15.107(a) Class B	Pass
Radiated Disturbance	FCC RULES AND REGULATIONS PART 15 SUBPART B OCTOBER 2014 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

Brand	Model No.
Hisense	HU43K300UW
	43H7C
	43H7C+

Note#1 : The above models are all the same except for model number. HU43K300UW model is tested and recorded in the report.

Note#2 : “+ ” represents any numerals, for different sales area.

Applicant : Hisense Electric Co., Ltd.
No.218 Qianwangang Road, Economy & Technology Development Zone, Qingdao, China

Manufacturer : same as Applicant

Factory #1 : same as Applicant

Factory #2 : Tatung Mexico S.A. de C.V.
Miguel Catalán 420, Parque Industrial Rio Bravo,
Cd. Juarez, Chih., CP 32557

Factory #3 : HISENSE ELECTRONICA MEXICO, S.A. DE C.V.
Blvd. Sharp #3510 Parque Industrial Rosarito,
C.P. 22710 Playas de Rosarito, B.C.

LCD Panel : Manufacturer : Hisense
M/N : HD426DU-B51 (010)

Tuner : Manufacturer : XuGuang Tech. Co., Ltd.
M/N : HFT-96S3/W11FJ2H\ROH

Max Resolution : 3840*2160@60Hz

HDMI Cable*4 : Shielded, Detachable, 1.50m
(Lab provide)

Power Cord : Unshielded, Detachable, 1.80m

LAN Cable : Shielded, Detachable, 1.50m

USB Cable*3 : Shielded, Detachable, 1.00m, without core
(Lab provide)

MHL to HDMI Adaptor: Manufacture: CE-Link
with RCP (Lab provide) M/N: 3002

Remark:

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

Side Port:

- (1) One USB3 Port : Connected with Hard-Disk #1
- (2) One HDMI2/ARC Port : Connected with DVD PLAYER #2
- (3) One HDMI1/MHL Port : Connected with Smart Mobile Phone
- (4) One Audio out Port : Connected with Earphone
- (5) One Service Port : Do not open to customer
- (6) One USB1 Port : Connected with Hard-Disk #2
- (7) One USB2 Port : Connected with Hard-Disk #3
- (8) One ANT/CABLE IN Port : Connected with Antenna or ATSC SG / TV SG

Back Port:

- (9) One LAN Port : Connected with PC
- (10) One HDMI3 Port : Connected with DVD PLAYER #1
- (11) One HDMI4 Port : Connected with PC
- (12) One Digital Audio Out Port : Connected with DVD PLAYER #1
- (13) One component of YPbPr Port : Connected with DVD PLAYER #2
- (14) One AV Port : Connected with DVD PLAYER #1

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;

2.2.2 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

2.2.3 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

2.2.4 Modem

Manufacturer : TP-LINK
Model Number : TM-EC5658V
Serial Number : 07123301053
Data Cable : Shielded, Detachable, 1.8m
Certificate : CCC

2.2.5 Earphone

Manufacturer : audio-technica
Model Number : ATH-CKL200

2.2.6 TV Signal Generator

Manufacturer : FLUKE
Model Number : 54200M01
Serial Number : 814008

2.2.7 ATSC Signal Generator

Manufacturer : SENCORE
Model Number : ATSC997
Serial Number : 6790071

2.2.8 DVD PLAYER #1

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

2.2.9 DVD PLAYER #2

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

2.2.10 Hard Disk #1

Manufacturer	:	Tetasys
Model Number	:	F12
Serial Number	:	A010022-4860010X
Data Cable	:	Shielded, Undetachable, 1.8m.
Certificate	:	CE, FCC DoC

2.2.11 Hard Disk #2

Manufacturer	:	Tetasys
Model Number	:	F12
Serial Number	:	A010022-4A60007
Data Cable	:	Shielded, Undetachable, 1.8m.
Certificate	:	CE, FCC DoC

2.2.12 Hard Disk #3

Manufacturer	:	Tetasys
Model Number	:	F12
Serial Number	:	A010022-40F0005
Data Cable	:	Shielded, Undetachable, 1.8m.
Certificate	:	CE, FCC DoC

2.2.13 Smart Mobile Phone

Manufacturer	:	SAMSUNG
Model Number	:	GT-I9100G
Serial Number	:	6935152011519
Certificate	:	CE/EMC

2.3 Description of Test Facility

Site Description (No.3 3m Chamber)	:	Sept. 17, 1998 file on Jan.15, 2015 Renewed Federal Communications Commission FCC Engineering Laboratory 7435 Oakland Mills Road Columbia, MD 21046, USA
Name of Firm	:	Audix Technology (Shanghai) Co., Ltd.
Site Location	:	3F 34Bldg 680 Guiping Rd, Caohejing Hi-Tech Park, Shanghai 200233, China
NVLAP Lab Code	:	200371-0

2.4 Measurement Uncertainty

Conducted Emission Expanded Uncertainty : U = 3.4dB

Radiated Emission Expanded Uncertainty (30-200MHz):

U = 4.6dB (Horizontal)

U = 4.3dB (Vertical)

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

U = 4.5dB (Horizontal)

U = 5.4dB (Vertical)

Radiated Emission Expanded Uncertainty (1GHz-6GHz):

U = 5.1dB

3 CONDUCTED EMISSION TEST

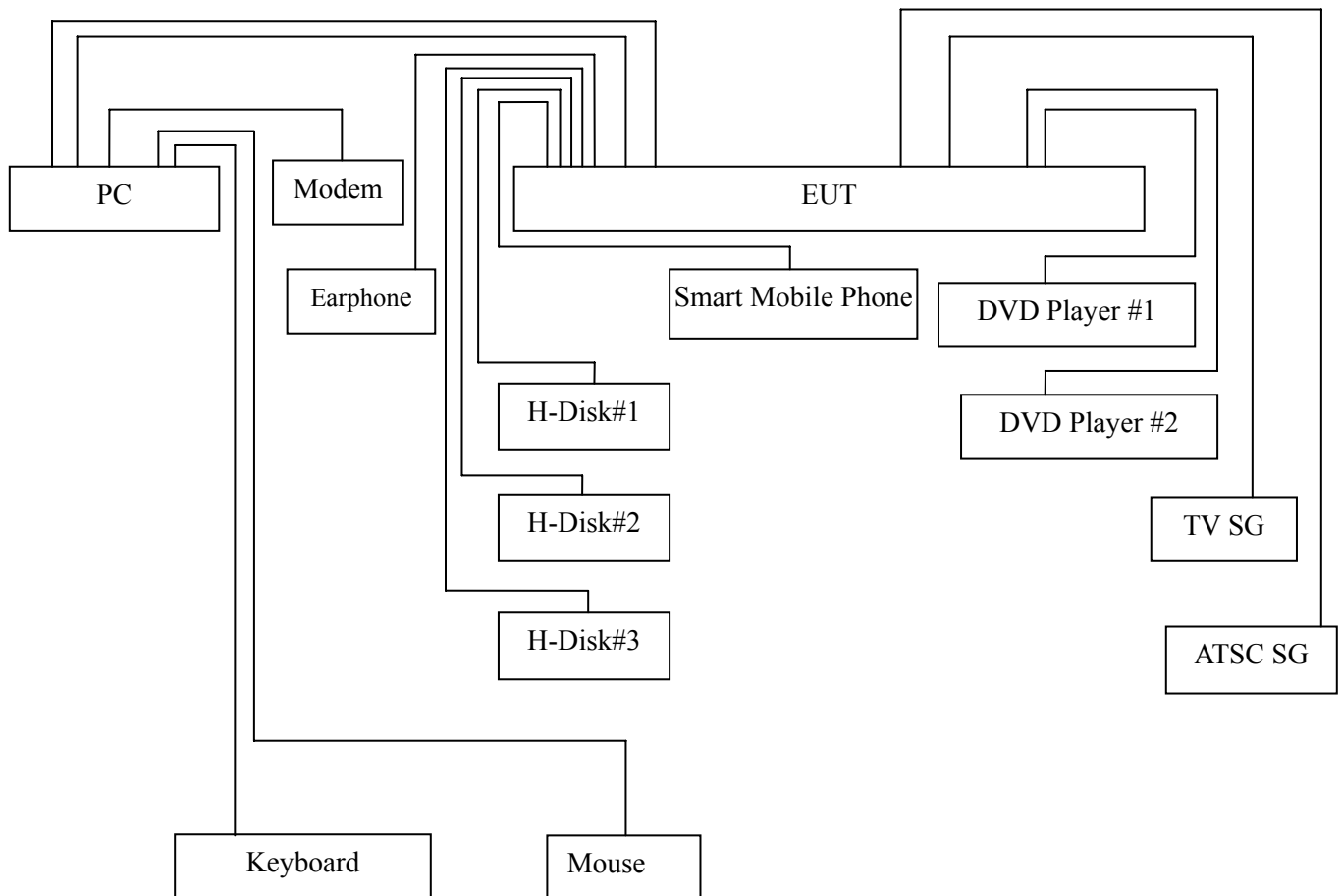
3.1 Test Equipment

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

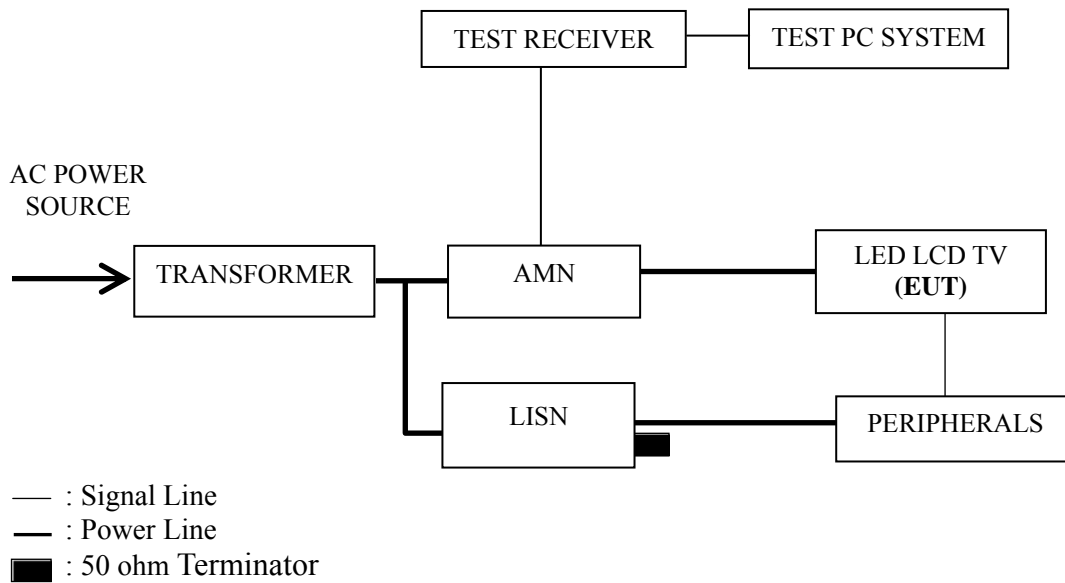
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Test Receiver	R&S	ESCI	101302	Jul 03, 2015	Jul 02, 2016
2.	Artificial Mains Network (AMN)	R&S	ENV4200	100125	Jun 27, 2015	Jun 26, 2016
3.	Line Impedance Stabilization Network (LISN)	Kyoritsu	KNW-407	8-1280-5	Mar 20, 2015	Mar 19, 2016
4.	50Ω Terminator	Anritsu	BNC	001	Mar 18, 2015	Sep 17, 2016
5.	Software	Audix	E3	6.111206	--	--

3.2 Block Diagram of Test Setup

3.2.1 EUT & Peripherals



3.2.2 Conducted Disturbance Test Setup



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

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

3.4 Test Configuration

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

3.5 Operating Condition of EUT

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

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

3.5.3 Set the contrast & brightness of EUT to maximum.

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

3.5.5 PC system sent the 1kHz audio signal to EUT through audio port, the EUT speak out 1kHz audio signal.

3.5.6 In USB Play mode, set the EUT play digital media from Hard Disk.

3.5.7 In LAN Play mode, set the EUT play digital media through LAN port.

3.5.8 In MHL mode, set the EUT play digital media from mobile phone.

3.5.9 The other peripherals devices were driven and operated during the test.

3.5.10 The test modes are as follows:

Test Mode
HDMI 3840*2160@60Hz & 1kHz playing
HDMI 1920*1080@60Hz & 1kHz playing
HDMI 1280*1024@60Hz & 1kHz playing
HDMI 640*480@60Hz & 1kHz playing
HDMI1080P
MHL
USB Play
LAN 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 3840*2160@60Hz & 1kHz playing	P14
HDMI 1920*1080@60Hz & 1kHz playing	P15
HDMI 1280*1024@60Hz & 1kHz playing	P16
HDMI 640*480@60Hz & 1kHz playing	P17
HDMI1080P	P18
MHL	P19
USB Play	P20
LAN Play	P21

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 HDMI 640*480@60Hz & 1kHz playing test mode. The worst emission is detected at 7.426MHz (Average Value) with corrected signal level of 38.47 dB (μV) (limit is 50.00 dB (μV)), when the Line of the EUT is connected to AMN.

EUT : LED LCD TV Temperature : 22°C

Model No. : HU43K300UW Humidity : 48%RH

Test Mode : HDMI 3840*2160@60Hz & 1kHz Playing Date of Test : Dec 15, 2015

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.213	37.20	10.51	47.71	63.07	15.36	QP
	0.475	28.90	10.40	39.30	56.42	17.12	
	0.611	31.20	10.38	41.58	56.00	14.42	
	1.279	26.20	10.39	36.59	56.00	19.41	
	2.636	24.29	10.44	34.73	56.00	21.27	
	7.522	24.00	10.47	34.47	60.00	25.53	
	0.213	21.80	10.51	32.31	53.07	20.76	AV
	0.475	17.00	10.40	27.40	46.42	19.02	
	0.611	18.90	10.38	29.28	46.00	16.72	
	1.279	15.30	10.39	25.69	46.00	20.31	
	2.636	15.39	10.44	25.83	46.00	20.17	
	7.522	17.10	10.47	27.57	50.00	22.43	
Neutral	0.212	38.90	10.49	49.39	63.14	13.75	QP
	0.459	29.80	10.38	40.18	56.72	16.54	
	0.635	28.80	10.36	39.16	56.00	16.84	
	1.213	27.69	10.39	38.08	56.00	17.92	
	3.389	23.49	10.45	33.94	56.00	22.06	
	7.514	24.20	10.52	34.72	60.00	25.28	
	0.212	24.30	10.49	34.79	53.14	18.35	AV
	0.459	16.70	10.38	27.08	46.72	19.64	
	0.635	15.60	10.36	25.96	46.00	20.04	
	1.213	17.79	10.39	28.18	46.00	17.82	
	3.389	15.29	10.45	25.74	46.00	20.26	
	7.514	17.70	10.52	28.22	50.00	21.78	

TEST ENGINEER: WENCY YANG

EUT : LED LCD TV Temperature : 22°C

Model No. : HU43K300UW Humidity : 48%RH

Test Mode : HDMI 1920*1080@60Hz & 1kHz Playing Date of Test : Dec 15, 2015

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.213	37.30	10.51	47.81	63.11	15.30	QP
	0.478	28.80	10.40	39.20	56.38	17.18	
	0.586	29.90	10.38	40.28	56.00	15.72	
	1.209	27.50	10.39	37.89	56.00	18.11	
	3.525	24.20	10.45	34.65	56.00	21.35	
	7.232	27.90	10.47	38.37	60.00	21.63	
	0.213	21.50	10.51	32.01	53.11	21.10	AV
	0.478	14.90	10.40	25.30	46.38	21.08	
	0.586	17.00	10.38	27.38	46.00	18.62	
	1.209	16.70	10.39	27.09	46.00	18.91	
	3.525	14.90	10.45	25.35	46.00	20.65	
	7.232	22.60	10.47	33.07	50.00	16.93	
Neutral	0.211	38.70	10.49	49.19	63.16	13.97	QP
	0.490	32.70	10.37	43.07	56.18	13.11	
	0.636	28.80	10.36	39.16	56.00	16.84	
	1.175	26.21	10.37	36.58	56.00	19.42	
	3.583	24.60	10.45	35.05	56.00	20.95	
	6.775	26.20	10.51	36.71	60.00	23.29	
	0.211	22.80	10.49	33.29	53.16	19.87	AV
	0.490	22.50	10.37	32.87	46.18	13.31	
	0.636	15.90	10.36	26.26	46.00	19.74	
	1.175	15.11	10.37	25.48	46.00	20.52	
	3.583	13.90	10.45	24.35	46.00	21.65	
	6.775	19.30	10.51	29.81	50.00	20.19	

TEST ENGINEER: WENCY YANG

EUT : LED LCD TV Temperature : 22°C

Model No. : HU43K300UW Humidity : 48%RH

Test Mode : HDMI 1280*1024@60Hz & 1kHz Playing Date of Test : Dec 15, 2015

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.212	37.50	10.51	48.01	63.13	15.12	QP
	0.472	28.80	10.40	39.20	56.48	17.28	
	0.975	27.40	10.38	37.78	56.00	18.22	
	1.707	26.19	10.41	36.60	56.00	19.40	
	2.562	24.50	10.43	34.93	56.00	21.07	
	7.178	27.70	10.47	38.17	60.00	21.83	
	0.212	21.40	10.51	31.91	53.13	21.22	AV
	0.472	17.40	10.40	27.80	46.48	18.68	
	0.975	16.70	10.38	27.08	46.00	18.92	
	1.707	15.49	10.41	25.90	46.00	20.10	
	2.562	16.20	10.43	26.63	46.00	19.37	
	7.178	22.40	10.47	32.87	50.00	17.13	
Neutral	0.211	38.60	10.49	49.09	63.17	14.08	QP
	0.472	31.40	10.38	41.78	56.48	14.70	
	0.976	29.10	10.37	39.47	56.00	16.53	
	1.955	27.50	10.41	37.91	56.00	18.09	
	4.362	23.90	10.46	34.36	56.00	21.64	
	7.268	26.20	10.52	36.72	60.00	23.28	
	0.211	23.40	10.49	33.89	53.17	19.28	AV
	0.472	18.30	10.38	28.68	46.48	17.80	
	0.976	17.70	10.37	28.07	46.00	17.93	
	1.955	17.70	10.41	28.11	46.00	17.89	
	4.362	15.80	10.46	26.26	46.00	19.74	
	7.268	20.80	10.52	31.32	50.00	18.68	

TEST ENGINEER: WENCY YANG

EUT : LED LCD TV Temperature : 22°C

Model No. : HU43K300UW Humidity : 48%RH

Test Mode : HDMI 640*480@60Hz & 1kHz Playing Date of Test : Dec 15, 2015

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.212	37.30	10.51	47.81	63.11	15.30	QP
	0.468	28.80	10.40	39.20	56.55	17.35	
	1.141	27.81	10.38	38.19	56.00	17.81	
	1.951	27.10	10.41	37.51	56.00	18.49	
	4.254	24.10	10.47	34.57	56.00	21.43	
	7.426	31.20	10.47	41.67	60.00	18.33	
	0.212	21.40	10.51	31.91	53.11	21.20	AV
	0.468	18.10	10.40	28.50	46.55	18.05	
	1.141	16.21	10.38	26.59	46.00	19.41	
	1.951	17.30	10.41	27.71	46.00	18.29	
	4.254	16.80	10.47	27.27	46.00	18.73	
	7.426	28.00	10.47	38.47	50.00	11.53	
Neutral	0.212	38.80	10.49	49.29	63.13	13.84	QP
	0.467	30.70	10.38	41.08	56.57	15.49	
	1.212	27.79	10.39	38.18	56.00	17.82	
	1.889	27.50	10.41	37.91	56.00	18.09	
	4.181	24.50	10.46	34.96	56.00	21.04	
	7.384	26.80	10.52	37.32	60.00	22.68	
	0.212	23.50	10.49	33.99	53.13	19.14	AV
	0.467	18.60	10.38	28.98	46.57	17.59	
	1.212	17.59	10.39	27.98	46.00	18.02	
	1.889	16.20	10.41	26.61	46.00	19.39	
	4.181	17.10	10.46	27.56	46.00	18.44	
	7.384	21.40	10.52	31.92	50.00	18.08	

TEST ENGINEER: WENCY YANG

EUT : LED LCD TV Temperature : 22°C

Model No. : HU43K300UW Humidity : 48%RH

Test Mode : HDMI1080P Date of Test : Dec 15, 2015

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.212	37.30	10.51	47.81	63.13	15.32	QP
	0.462	28.20	10.40	38.60	56.65	18.05	
	0.902	25.90	10.38	36.28	56.00	19.72	
	1.198	26.90	10.39	37.29	56.00	18.71	
	2.695	26.59	10.44	37.03	56.00	18.97	
	7.269	26.90	10.47	37.37	60.00	22.63	
	0.212	20.80	10.51	31.31	53.13	21.82	AV
	0.462	17.10	10.40	27.50	46.65	19.15	
	0.902	11.00	10.38	21.38	46.00	24.62	
	1.198	16.70	10.39	27.09	46.00	18.91	
	2.695	15.99	10.44	26.43	46.00	19.57	
	7.269	21.20	10.47	31.67	50.00	18.33	
Neutral	0.212	38.80	10.49	49.29	63.12	13.83	QP
	0.480	32.20	10.38	42.58	56.34	13.76	
	1.198	27.49	10.39	37.88	56.00	18.12	
	1.952	27.10	10.41	37.51	56.00	18.49	
	4.351	24.00	10.46	34.46	56.00	21.54	
	7.319	26.10	10.52	36.62	60.00	23.38	
	0.212	23.90	10.49	34.39	53.12	18.73	AV
	0.480	20.30	10.38	30.68	46.34	15.66	
	1.198	15.59	10.39	25.98	46.00	20.02	
	1.952	17.20	10.41	27.61	46.00	18.39	
	4.351	16.20	10.46	26.66	46.00	19.34	
	7.319	20.20	10.52	30.72	50.00	19.28	

TEST ENGINEER: WENCY YANG

EUT : LED LCD TV Temperature : 22°C

Model No. : HU43K300UW Humidity : 48%RH

Test Mode : MHL Date of Test : Dec 15, 2015

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.212	36.10	10.51	46.61	63.12	16.51	QP
	0.471	27.50	10.40	37.90	56.51	18.61	
	0.635	26.20	10.38	36.58	56.00	19.42	
	1.208	28.00	10.39	38.39	56.00	17.61	
	2.544	25.30	10.43	35.73	56.00	20.27	
	7.563	27.70	10.47	38.17	60.00	21.83	
	0.212	17.90	10.51	28.41	53.12	24.71	AV
	0.471	14.90	10.40	25.30	46.51	21.21	
	0.635	14.30	10.38	24.68	46.00	21.32	
	1.208	17.30	10.39	27.69	46.00	18.31	
	2.544	16.40	10.43	26.83	46.00	19.17	
	7.563	24.50	10.47	34.97	50.00	15.03	
Neutral	0.214	38.50	10.49	48.99	63.05	14.06	QP
	0.463	30.30	10.38	40.68	56.64	15.96	
	0.601	31.60	10.36	41.96	56.00	14.04	
	1.211	27.89	10.39	38.28	56.00	17.72	
	4.349	24.20	10.46	34.66	56.00	21.34	
	7.250	26.60	10.52	37.12	60.00	22.88	
	0.214	24.60	10.49	35.09	53.05	17.96	AV
	0.463	18.10	10.38	28.48	46.64	18.16	
	0.601	20.00	10.36	30.36	46.00	15.64	
	1.211	16.09	10.39	26.48	46.00	19.52	
	4.349	16.40	10.46	26.86	46.00	19.14	
	7.250	20.90	10.52	31.42	50.00	18.58	

TEST ENGINEER: WENCY YANG

EUT : LED LCD TV Temperature : 22°C

Model No. : HU43K300UW Humidity : 48%RH

Test Mode : USB Play Date of Test : Dec 15, 2015

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.214	35.60	10.51	46.11	63.06	16.95	QP
	0.467	27.50	10.40	37.90	56.57	18.67	
	1.136	28.51	10.38	38.89	56.00	17.11	
	1.879	26.60	10.41	37.01	56.00	18.99	
	4.369	24.50	10.47	34.97	56.00	21.03	
	7.348	27.50	10.47	37.97	60.00	22.03	
	0.214	17.70	10.51	28.21	53.06	24.85	AV
	0.467	16.80	10.40	27.20	46.57	19.37	
	1.136	18.31	10.38	28.69	46.00	17.31	
	1.879	16.40	10.41	26.81	46.00	19.19	
	4.369	16.40	10.47	26.87	46.00	19.13	
	7.348	22.30	10.47	32.77	50.00	17.23	
Neutral	0.197	40.79	10.51	51.30	63.74	12.44	QP
	0.460	32.70	10.38	43.08	56.69	13.61	
	0.597	31.50	10.36	41.86	56.00	14.14	
	1.096	26.11	10.37	36.48	56.00	19.52	
	1.855	26.30	10.41	36.71	56.00	19.29	
	7.288	26.20	10.52	36.72	60.00	23.28	
	0.197	25.49	10.51	36.00	53.74	17.74	AV
	0.460	22.20	10.38	32.58	46.69	14.11	
	0.597	20.90	10.36	31.26	46.00	14.74	
	1.096	14.01	10.37	24.38	46.00	21.62	
	1.855	16.00	10.41	26.41	46.00	19.59	
	7.288	20.70	10.52	31.22	50.00	18.78	

TEST ENGINEER: WENCY YANG

EUT : LED LCD TV Temperature : 22°C

Model No. : HU43K300UW Humidity : 48%RH

Test Mode : LAN Play Date of Test : Dec 15, 2015

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.197	40.20	10.52	50.72	63.74	13.02	QP
	0.449	28.59	10.41	39.00	56.90	17.90	
	0.599	31.50	10.38	41.88	56.00	14.12	
	1.102	25.60	10.38	35.98	56.00	20.02	
	1.883	27.30	10.41	37.71	56.00	18.29	
	7.385	27.50	10.47	37.97	60.00	22.03	
	0.197	23.70	10.52	34.22	53.74	19.52	AV
	0.449	17.19	10.41	27.60	46.90	19.30	
	0.599	20.60	10.38	30.98	46.00	15.02	
	1.102	13.20	10.38	23.58	46.00	22.42	
	1.883	16.60	10.41	27.01	46.00	18.99	
	7.385	22.00	10.47	32.47	50.00	17.53	
Neutral	0.212	37.50	10.49	47.99	63.13	15.14	QP
	0.463	31.90	10.38	42.28	56.63	14.35	
	0.593	30.90	10.36	41.26	56.00	14.74	
	1.131	27.21	10.37	37.58	56.00	18.42	
	4.348	24.20	10.46	34.66	56.00	21.34	
	7.319	26.20	10.52	36.72	60.00	23.28	
	0.212	20.60	10.49	31.09	53.13	22.04	AV
	0.463	21.10	10.38	31.48	46.63	15.15	
	0.593	18.20	10.36	28.56	46.00	17.44	
	1.131	15.11	10.37	25.48	46.00	20.52	
	4.348	16.00	10.46	26.46	46.00	19.54	
	7.319	20.30	10.52	30.82	50.00	19.18	

TEST ENGINEER: WENCY YANG

4 RADIATED EMISSION TEST

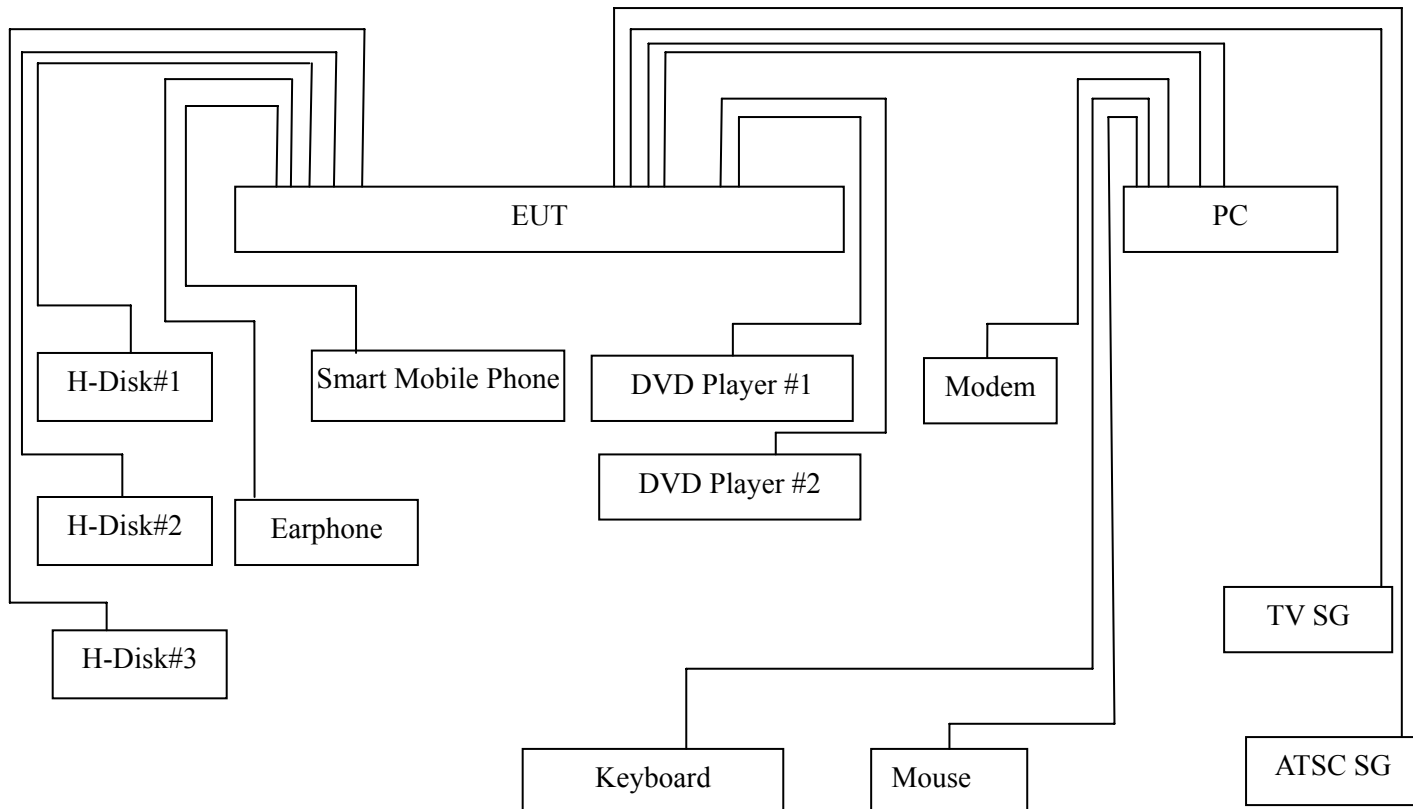
4.1 Test Equipment

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

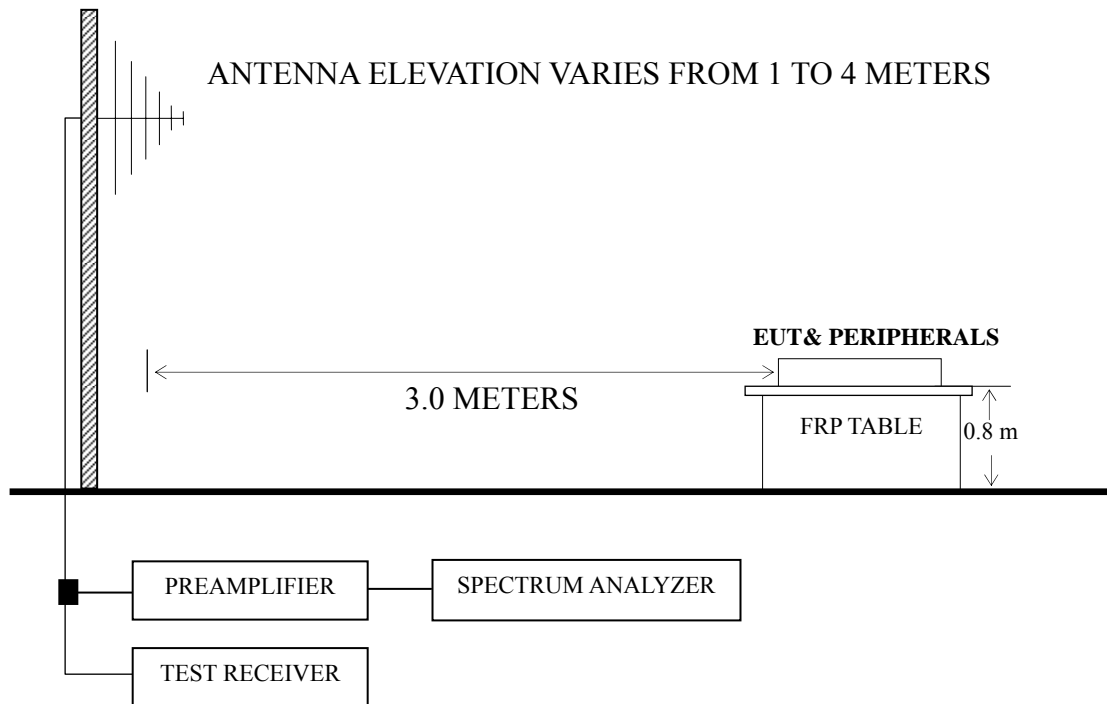
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Test Receiver	R&S	ESCI	101303	May 07, 2015	May 06, 2016
2.	Preamplifier	Agilent	8447D	2944A06664	Apr 27, 2015	Apr 26, 2016
3.	Preamplifier	HP	8449B	3008A00864	Mar 20, 2015	Sep 19, 2016
4.	Bi-log Antenna	TESEQ	CBL6112D	23193	May 15, 2015	May 14, 2016
5.	Horn Antenna	EMCO	3115	9607-4878	Jun 03, 2015	Jun 02, 2016
6.	Spectrum	Agilent	N9010A	MY52221182	Jun 12, 2015	Jun 11, 2016
7.	Spectrum	HP	8591EM	3628A00908	May 07, 2015	May 06, 2016
8.	50 Ω Coaxial Switch	Anritsu	MP59B	6200426390	Sep 18, 2015	Mar 17, 2016
9.	Software	Audix	E3	6.2007-9-10	--	--

4.2 Block Diagram of Test Setup

4.2.1 EUT & Peripherals



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.

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 6 GHz was checked for HDMI 3840*2160@60Hz & 1kHz playing, HDMI 1920*1080@60Hz & 1kHz playing and HDMI1080P test mode.

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 3840*2160@60Hz & 1kHz playing	P26 - P27
HDMI 1920*1080@60Hz & 1kHz playing	P28- P29
HDMI 1280*1024@60Hz & 1kHz playing	P30
HDMI 640*480@60Hz & 1kHz playing	P31
HDMI1080P	P32- P33
MHL	P34
USB Play	P35
LAN Play	P36

- 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° was the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.
- NOTE 4 – The worst case is for HDMI 3840*2160@60Hz & 1kHz playing test mode. The worst emission at horizontal polarization was detected at 297.000 MHz with corrected signal level of 44.16 dB (μV/m) (limit is 46.00 dB (μV/m)), when the antenna was 2.0 m height and the turntable was at 60°. The worst emission at vertical polarization was detected at 892.330 MHz with corrected signal level of 44.17dB (μV/m) (limit is 46.00 dB (μV/m)), when the antenna was 1.8m height and the turntable was at 240°.

EUT : LED LCD TV Temperature : 22°C

Model No. : HU43K300UW Humidity : 60%RH

Test Mode : HDMI 3840*2160@60Hz & 1kHz Playing Date of Test : Dec 18, 2015

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	74.620	8.43	24.88	1.01	--	34.32	40.00	5.68	QP
	132.820	12.69	24.86	1.54	--	39.09	43.50	4.41	
	220.120	10.55	27.29	2.04	--	39.88	46.00	6.12	
	297.000	13.70	27.90	2.56	--	44.16	46.00	1.84	
	719.670	19.90	16.75	3.57	--	40.22	46.00	5.78	
	851.680	20.73	17.50	4.17	--	42.40	46.00	3.60	
	1185.562	24.39	62.89	3.52	36.16	54.64	74.00	19.36	PK
	1702.593	26.44	57.77	4.07	35.43	52.85	74.00	21.15	
	2525.249	28.50	57.78	4.96	35.16	56.08	74.00	17.92	
	2961.827	30.37	62.87	5.76	35.20	63.80	74.00	10.20	
	3369.664	31.25	62.29	6.10	34.83	64.81	74.00	9.19	
	4253.498	33.22	51.50	6.43	34.19	56.96	74.00	17.04	AV
	1185.562	24.39	45.33	3.52	36.16	37.08	54.00	16.92	
	1702.593	26.44	41.05	4.07	35.43	36.13	54.00	17.87	
	2525.249	28.50	40.93	4.96	35.16	39.23	54.00	14.77	
	2961.827	30.37	48.74	5.76	35.20	49.67	54.00	4.33	
	3369.664	31.25	46.13	6.10	34.83	48.65	54.00	5.35	
	4253.498	33.22	37.33	6.43	34.19	42.79	54.00	11.21	

TEST ENGINEER: BILL WU

EUT : LED LCD TV Temperature : 22°C

Model No. : HU43K300UW Humidity : 60%RH

Test Mode : HDMI 3840*2160@60Hz & 1kHz Playing Date of Test : Dec 18, 2015

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Vertical	31.940	17.50	18.66	0.65	--	36.81	40.00	3.19	QP
	76.560	8.78	25.80	1.04	--	35.62	40.00	4.38	
	220.120	10.55	25.89	2.04	--	38.48	46.00	7.52	
	300.630	13.84	26.43	2.59	--	42.86	46.00	3.14	
	719.670	19.90	17.87	3.57	--	41.34	46.00	4.66	
	892.330	21.30	18.41	4.46	--	44.17	46.00	1.83	PK
	1215.678	24.52	66.91	3.54	36.10	58.87	74.00	15.13	
	1690.434	26.40	61.44	4.07	35.44	56.47	74.00	17.53	
	2114.790	27.72	59.16	4.55	35.11	56.32	74.00	17.68	
	2547.974	28.63	65.85	4.96	35.16	64.28	74.00	9.72	
	2972.460	30.40	64.98	5.76	35.20	65.94	74.00	8.06	AV
	3792.666	32.27	55.57	5.94	34.46	59.32	74.00	14.68	
	1215.678	24.52	50.95	3.54	36.10	42.91	54.00	11.09	
	1690.434	26.40	47.20	4.07	35.44	42.23	54.00	11.77	
	2114.790	27.72	42.11	4.55	35.11	39.27	54.00	14.73	
	2547.974	28.63	50.30	4.96	35.16	48.73	54.00	5.27	
	2972.460	30.40	50.54	5.76	35.20	51.50	54.00	2.50	
	3792.666	32.27	40.31	5.94	34.46	44.06	54.00	9.94	

TEST ENGINEER: BILL WU

EUT : LED LCD TV Temperature : 22°C

Model No. : HU43K300UW Humidity : 60%RH

Test Mode : HDMI 1920*1080@60Hz & 1kHz Playing Date of Test : Dec 18, 2015

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	78.500	9.12	25.17	1.05	--	35.34	40.00	4.66	QP
	137.670	12.54	24.47	1.56	--	38.57	43.50	4.93	
	223.030	10.70	26.67	2.05	--	39.42	46.00	6.58	
	301.600	13.88	26.48	2.59	--	42.95	46.00	3.05	
	719.670	19.90	17.38	3.57	--	40.85	46.00	5.15	
	847.710	20.70	17.95	4.07	--	42.72	46.00	3.28	
	1702.593	26.44	61.76	4.07	35.43	56.84	74.00	17.16	PK
	2111.004	27.72	58.49	4.55	35.11	55.65	74.00	18.35	
	2543.413	28.60	62.85	4.96	35.16	61.25	74.00	12.75	
	2967.138	30.37	64.71	5.76	35.20	65.64	74.00	8.36	
	3387.825	31.29	61.66	6.10	34.82	64.23	74.00	9.77	
	4652.151	33.76	53.80	6.51	34.03	60.04	74.00	13.96	
	1702.593	26.44	45.43	4.07	35.43	40.51	54.00	13.49	AV
	2111.004	27.72	40.84	4.55	35.11	38.00	54.00	16.00	
	2543.413	28.60	50.74	4.96	35.16	49.14	54.00	4.86	
	2967.138	30.37	50.83	5.76	35.20	51.76	54.00	2.24	
	3387.825	31.29	46.11	6.10	34.82	48.68	54.00	5.32	
	4652.151	33.76	40.89	6.51	34.03	47.13	54.00	6.87	

TEST ENGINEER: BILL WU

EUT : LED LCD TV Temperature : 22°C

Model No. : HU43K300UW Humidity : 60%RH

Test Mode : HDMI 1920*1080@60Hz & 1kHz Playing Date of Test : Dec 18, 2015

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Vertical	31.940	17.50	16.89	0.65	--	35.04	40.00	4.96	QP
	74.620	8.43	24.74	1.01	--	34.18	40.00	5.82	
	132.820	12.69	22.88	1.54	--	37.11	43.50	6.39	
	222.060	10.65	27.23	2.05	--	39.93	46.00	6.07	
	298.690	13.75	20.82	2.56	--	37.13	46.00	8.87	
	725.490	20.03	17.91	3.59	--	41.53	46.00	4.47	
	1215.678	24.52	62.00	3.54	36.10	53.96	74.00	20.04	PK
	1702.593	26.44	60.84	4.07	35.43	55.92	74.00	18.08	
	2118.583	27.73	59.72	4.58	35.11	56.92	74.00	17.08	
	2534.314	28.57	65.23	4.96	35.16	63.60	74.00	10.40	
	2951.232	30.30	65.80	5.69	35.20	66.59	74.00	7.41	
	3375.707	31.27	56.07	6.10	34.83	58.61	74.00	15.39	
	1215.678	24.52	46.69	3.54	36.10	38.65	54.00	15.35	AV
	1702.593	26.44	43.29	4.07	35.43	38.37	54.00	15.63	
	2118.583	27.73	43.88	4.58	35.11	41.08	54.00	12.92	
	2534.314	28.57	50.03	4.96	35.16	48.40	54.00	5.60	
	2951.232	30.30	50.42	5.69	35.20	51.21	54.00	2.79	
	3375.707	31.27	43.21	6.10	34.83	45.75	54.00	8.25	

TEST ENGINEER: BILL WU

EUT : LED LCD TV Temperature : 22°C

Model No. : HU43K300UW Humidity : 60%RH

Test Mode : HDMI 1280*1024@60Hz & 1kHz Playing Date of Test : Dec 18, 2015

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	72.680	7.97	25.00	0.98	33.95	40.00	6.05
	137.670	12.54	24.30	1.56	38.40	43.50	5.10
	224.000	10.75	26.51	2.07	39.33	46.00	6.67
	298.690	13.75	23.27	2.56	39.58	46.00	6.42
	717.730	19.88	16.18	3.57	39.63	46.00	6.37
	841.890	20.77	14.08	4.07	38.92	46.00	7.08
Vertical	57.160	6.24	27.39	0.86	34.49	40.00	5.51
	79.470	9.29	24.09	1.07	34.45	40.00	5.55
	222.060	10.65	26.00	2.05	38.70	46.00	7.30
	301.600	13.88	21.39	2.59	37.86	46.00	8.14
	717.730	19.88	17.10	3.57	40.55	46.00	5.45
	853.530	20.73	13.89	4.17	38.79	46.00	7.21

TEST ENGINEER: BILL WU

EUT : LED LCD TV Temperature : 22°C

Model No. : HU43K300UW Humidity : 60%RH

Test Mode : HDMI 640*480@60Hz & 1kHz Playing Date of Test : Dec 18, 2015

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	74.620	8.43	25.25	1.01	34.69	40.00	5.31
	136.700	12.57	23.16	1.56	37.29	43.50	6.21
	224.970	10.80	25.54	2.07	38.41	46.00	7.59
	302.570	13.88	26.14	2.59	42.61	46.00	3.39
	719.670	19.90	17.40	3.57	40.87	46.00	5.13
	850.620	20.70	17.52	4.17	42.39	46.00	3.61
Vertical	32.910	16.99	16.77	0.66	34.42	40.00	5.58
	74.620	8.43	25.75	1.01	35.19	40.00	4.81
	133.790	12.64	22.73	1.54	36.91	43.50	6.59
	214.300	10.17	24.98	2.03	37.18	43.50	6.32
	725.490	20.03	17.83	3.59	41.45	46.00	4.55
	850.620	20.70	14.90	4.17	39.77	46.00	6.23

TEST ENGINEER: BILL WU

EUT : LED LCD TV Temperature : 22°C

Model No. : HU43K300UW Humidity : 60%RH

Test Mode : HDMI1080P Date of Test : Dec 18, 2015

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	81.410	9.51	21.32	1.10	--	31.93	40.00	8.07	QP
	143.490	12.20	26.01	1.60	--	39.81	43.50	3.69	
	241.460	12.00	22.37	2.13	--	36.50	46.00	9.50	
	316.150	14.35	19.08	2.61	--	36.04	46.00	9.96	
	383.080	16.50	14.25	2.70	--	33.45	46.00	12.55	
	741.010	19.97	18.20	3.60	--	41.77	46.00	4.23	
	2126.188	27.75	57.48	4.58	35.11	54.70	74.00	19.30	PK
	2538.859	28.57	62.11	4.96	35.16	60.48	74.00	13.52	
	2972.460	30.40	63.90	5.76	35.20	64.86	74.00	9.14	
	3375.707	31.27	62.82	6.10	34.83	65.36	74.00	8.64	
	3799.467	32.30	52.46	5.94	34.46	56.24	74.00	17.76	
	4652.151	33.76	49.96	6.51	34.03	56.20	74.00	17.80	
	2126.188	27.75	40.22	4.58	35.11	37.44	54.00	16.56	AV
	2538.859	28.57	45.05	4.96	35.16	43.42	54.00	10.58	
	2972.460	30.40	50.63	5.76	35.20	51.59	54.00	2.41	
	3375.707	31.27	45.75	6.10	34.83	48.29	54.00	5.71	
	3799.467	32.30	37.22	5.94	34.46	41.00	54.00	13.00	
	4652.151	33.76	35.21	6.51	34.03	41.45	54.00	12.55	

TEST ENGINEER: BILL WU

EUT : LED LCD TV Temperature : 22°C

Model No. : HU43K300UW Humidity : 60%RH

Test Mode : HDMI1080P Date of Test : Dec 18, 2015

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Vertical	72.680	7.97	25.99	0.98	--	34.94	40.00	5.06	QP
	143.490	12.20	20.77	1.60	--	34.57	43.50	8.93	
	230.790	11.24	22.03	2.09	--	35.36	46.00	10.64	
	359.800	15.90	11.54	2.67	--	30.11	46.00	15.89	
	512.090	17.95	11.58	2.84	--	32.37	46.00	13.63	
	875.840	20.97	14.91	4.36	--	40.24	46.00	5.76	
	1211.329	24.49	65.20	3.54	36.11	57.12	74.00	16.88	PK
	1690.434	26.40	59.01	4.07	35.44	54.04	74.00	19.96	
	2122.382	27.73	58.18	4.58	35.11	55.38	74.00	18.62	
	2529.778	28.53	64.47	4.96	35.16	62.80	74.00	11.20	
	2951.232	30.30	63.71	5.69	35.20	64.50	74.00	9.50	
	3381.760	31.29	54.22	6.10	34.82	56.79	74.00	17.21	
	1211.329	24.49	50.39	3.54	36.11	42.31	54.00	11.69	AV
	1690.434	26.40	45.00	4.07	35.44	40.03	54.00	13.97	
	2122.382	27.73	48.31	4.58	35.11	45.51	54.00	8.49	
	2529.778	28.53	50.22	4.96	35.16	48.55	54.00	5.45	
	2951.232	30.30	50.84	5.69	35.20	51.63	54.00	2.37	
	3381.760	31.29	47.29	6.10	34.82	49.86	54.00	4.14	

TEST ENGINEER: BILL WU

EUT : LED LCD TV Temperature : 22°C

Model No. : HU43K300UW Humidity : 60%RH

Test Mode : MHL Date of Test : Dec 18, 2015

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	78.500	9.12	24.36	1.05	34.53	40.00	5.47
	150.280	11.46	22.62	1.63	35.71	43.50	7.79
	232.730	11.32	22.39	2.09	35.80	46.00	10.20
	310.330	14.10	19.80	2.60	36.50	46.00	9.50
	373.380	16.36	14.58	2.69	33.63	46.00	12.37
	895.240	21.30	13.06	4.46	38.82	46.00	7.18
Vertical	85.290	9.85	23.31	1.15	34.31	40.00	5.69
	140.580	12.45	21.18	1.59	35.22	43.50	8.28
	209.450	10.00	23.00	2.01	35.01	43.50	8.49
	305.480	13.99	19.41	2.60	36.00	46.00	10.00
	530.520	18.30	12.74	2.73	33.77	46.00	12.23
	736.160	19.97	12.49	3.60	36.06	46.00	9.94

TEST ENGINEER: BILL WU

EUT : LED LCD TV Temperature : 22°C

Model No. : HU43K300UW Humidity : 60%RH

Test Mode : USB Play Date of Test : Dec 18, 2015

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	71.710	7.68	25.08	0.96	33.72	40.00	6.28
	225.940	10.88	24.34	2.07	37.29	46.00	8.71
	301.600	13.88	23.93	2.59	40.40	46.00	5.60
	379.200	16.47	14.93	2.69	34.09	46.00	11.91
	522.760	18.18	15.33	2.78	36.29	46.00	9.71
	888.450	21.30	13.28	4.46	39.04	46.00	6.96
Vertical	40.670	12.74	19.54	0.74	33.02	40.00	6.98
	81.410	9.51	23.54	1.10	34.15	40.00	5.85
	138.640	12.53	20.76	1.57	34.86	43.50	8.64
	224.970	10.80	24.83	2.07	37.70	46.00	8.30
	522.760	18.18	18.51	2.78	39.47	46.00	6.53
	841.890	20.77	12.27	4.07	37.11	46.00	8.89

TEST ENGINEER: BILL WU

EUT : LED LCD TV Temperature : 22°C

Model No. : HU43K300UW Humidity : 60%RH

Test Mode : LAN Play Date of Test : Dec 18, 2015

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	78.500	9.12	25.06	1.05	35.23	40.00	4.77
	136.700	12.57	24.53	1.56	38.66	43.50	4.84
	221.090	10.60	26.46	2.05	39.11	46.00	6.89
	297.000	13.70	23.10	2.56	39.36	46.00	6.64
	363.680	16.03	21.31	2.67	40.01	46.00	5.99
	844.800	20.73	14.46	4.07	39.26	46.00	6.74
Vertical	30.000	18.90	15.60	0.63	35.13	40.00	4.87
	76.560	8.78	23.90	1.04	33.72	40.00	6.28
	132.820	12.69	23.21	1.54	37.44	43.50	6.06
	300.630	13.84	23.28	2.59	39.71	46.00	6.29
	719.670	19.90	16.03	3.57	39.50	46.00	6.50
	844.800	20.73	15.14	4.07	39.94	46.00	6.06

TEST ENGINEER: BILL WU

5 DEBUG DESCRIPTION

The following components are used during the countermeasure procedures:

Name	M/N	Manufacturer	Location
Conductive Tape	DCF40\ROH	Qingdao Joinset Co., Ltd	See Appendix Figure 26

Note: We had required the applicant and manufacturer that all electrical and mechanical devices employed for spurious radiation suppression, including any modifications made during certification testing, must be incorporated in each unit marked

TEST ENGINEER:



(WENCY YANG)

6 DEVIATION TO TEST SPECIFICATIONS

None.