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

LED LCD TV

Model No.	Brand
55DU60+0, 55DU6+00, 55H6607	
55H6D, 55H6D+, 55H6+0D, 55H6+0D1	Hisense
55H60+0D, 55H60+0D1	

FCC ID: W9HLCDF0117

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-F17176 Date of Test: Apr 08-21, 2017 Date of Report: May 08, 2017

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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. : Refer to Sec.2.1

Brand : Hisense Power Supply : 120V/60Hz

Test Procedure Used:

FCC RULES AND REGULATIONS PART 15 SUBPART B CLASS B AND ANSI C63.4-2014

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 Apr 08-21, 2017 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 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.F17059A4, a Verification report.

Date of Test:	Apr 08-21, 2017	Date of Report :	May 08, 2017
Producer:	TINA LIANG / Assistant		
Review:	Byron VIA BYRON WU / Deputy Assistant Manage	т	
B Company			

For and on bohalf of Audix Technology (Shangha) Go. Ltd.

Authorized Signature(s) 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 AND ANSI C63.4-2014	15.107(a) Class B	Pass
Radiated Disturbance	FCC RULES AND REGULATIONS PART 15 SUBPART B AND ANSI C63.4-2014	15.109(a) Class B	Pass

2 GENERAL INFORMATION

2.1 Description of Equipment Under Test

Description : LED LCD TV

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

Model No.	Brand
55DU60+0, 55DU6+00, 55H6607	
55H6D, 55H6D+, 55H6+0D, 55H6+0D1	Hisense
55H60+0D, 55H60+0D1	

Note #1 : "+"represents any of the Arabic numeral.

Note #2 : The tuner port comply with the 15.111 requirement.

Note #3 : The above models are all the same except for

model number. 55H6D model is tested and

recorded in the report.

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. Hisense #3510 Parque Industrial

Rosarito, C.P. 22710 Playas de Rosarito, B.C.

LCD Panel : Manufacturer : Hisense

M/N : HD550K3U51

Tuner : Manufacturer : SILICON LABS

M/N : Si2151-A10

WIFI Modular : FCC ID: 2AJVQ-ZDGFMT7612U

Max Resolution : 3840*2160@60Hz

HDMI Cable*4

(Lab provide)

Shielded, Detachable, 1.80m

Power Cord : Unshielded, Detachable, 1.80m, 2C

USB Cable*3 : Shielded, Detachable, 1.00m

(Lab provide)

LAN Cable : Unshielded, Detachable, 1.50m

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 ANT Port

: Connected with ATSC SG/TV SG

(2) One USB1 Port

: Connected with Hard-Disk #1

(3) One USB2 Port

: Connected with Hard-Disk #2

(4) One Service Port

: Do not open to customer

(5) One AUDIO OUT Port

: Connected with Earphone #1

(6) One HDMI1/MHL Port

: Connected with Smart Mobile Phone

(7) One HDMI2 Port

: Connected with PC

(8) One USB3 Port

: Connected with Hard-Disk #3

Back Port:

(9) One COMPONENT IN/AV IN Port

: Connected with DVD Player

(10) One LAN Port

: Connected with PC

(11) One DIGITAL AUDIO OUT Port

: Connected with Audio Converter to Earphone#2

(12) One HDMI3 Port

: Connect with PC

(13) One HDMI4 Port

: Connect with DVD Player

2.2 Peripherals

2 2 1 PC

Manufacturer: HP

Model Number: Pro3340

Serial Number: 6CR2512VFD

Power Cord : Unshielded, Detachable, 1.8m

Certificate : FCC DoC; CE/EMC; VCCI; C-Tick

2.2.2 Keyboard

Manufacturer : Microsoft Model Number : RT2300

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Serial Number: 7668200662248

Data Cable : Shielded, Detachable, 1.5m

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, Detachable, 1.5m.

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, 1.5m

Certificate : CCC

2.2.5 Earphone *2

Manufacturer : EDIFIER Model Number : H210

2.2.6 DVD Player

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

Certificate : CCC

2.2.7 Hard Disk #1

Manufacturer : Tetasys Model Number : F12

Serial Number: A010022-4860010X

Data Cable : Shielded, Undetachable, 1.8m.

Certificate : CE, FCC DoC

2.2.8 Hard Disk #2

Manufacturer : Tetasys Model Number : F12

Serial Number : A010022-4A60007

Data Cable : Shielded, Undetachable, 1.8m.

Certificate : CE, FCC DoC

2.2.9 Hard Disk #3

Manufacturer : Tetasys Model Number : F12

Serial Number : A010022-486006

Data Cable : Shielded, Undetachable, 1.8m.

Certificate : CE, FCC DoC

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2.2.10 ATSC Signal Generator

Manufacturer : SENCORE Model Number : ATSC997 Serial Number : 6790071

2.2.11 TV Signal Generator

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

2.3 Description of Test Facility

Site Description : Sept. 17, 1998 file on (No.3 3m Chamber) : 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

FCC registration Number : 91789

NVLAP Lab Code : 200371-0

2.4 Measurement Uncertainty

Conducted Emission Expanded Uncertainty: U = 3.4dB

Radiated Emission Expanded Uncertainty (30-200MHz):

U = 4.3dB(Horizontal)

U = 4.6dB (Vertical)

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

U = 4.3 dB (Horizontal)

U = 5.5 dB (Vertical)

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

U = 5.1 dB

3 CONDUCTED EMISSION TEST

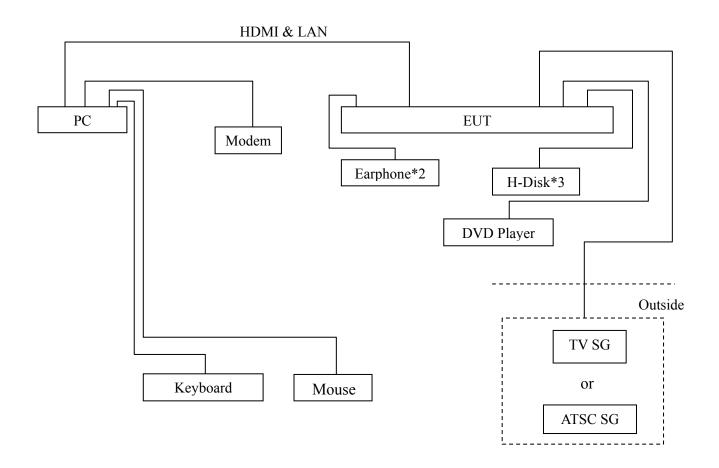
3.1 Test Equipment

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

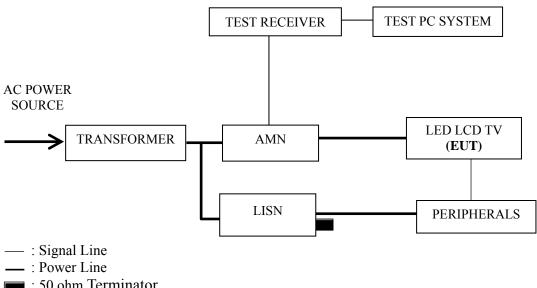
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Test Receiver	R&S	ESCI	101302	Apr 27, 2017	Apr 26, 2018
2.	Artificial Mains Network (AMN)	R&S	ENV4200	100125	Jun 25, 2016	Jun 24, 2017
3.	Line Impedance Stabilization Network (LISN)	Kyoritsu	KNW-407	8-1280-4	Mar 17, 2017	Mar 16, 2018
4.	50Ω Terminator	Anritsu	BNC	001	Mar 18, 2017	Sep 17, 2017
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



: 50 ohm Terminator

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

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 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
HDMI1 3840*2160@60Hz & 1kHz Playing	P14
HDMI2 3840*2160@60Hz & 1kHz Playing	P15
HDMI33840*2160@60Hz & 1kHz Playing	P16
HDMI4 3840*2160@60Hz & 1kHz Playing	P17
HDMI1 1920*1080@60Hz & 1kHz Playing	P18
HDMI1 1280*1024@60Hz & 1kHz Playing	P19
HDMI1 640*480@60Hz & 1kHz Playing	P20
HDMI 1080P	P21
USB Play	P22
LAN Play	P23
MHL	P24
Wifi	P25

- 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 mode. The worst emission is detected at 0.156 MHz (Average Value) with corrected signal level of 51.34dB (μ V) (limit is 65.65 dB (μ V)), when the Line of the EUT is connected to AMN.

Model No. : 55H6D Humidity : 48%RH

Test Mode : HDMI1 Date of Test :

3840*2160@60Hz & Apr 08, 2017 1kHz Playing

Test Line	Frequency (MHz)	Meter Reading dB(µV)	Factor (dB)	Emission Level dB(µV)	Limits dB(µV)	Margin (dB)	Remark
	0.153	40.14	10.58	50.72	65.82	15.10	
	0.356	30.36	10.45	40.81	58.83	18.02	
	0.627	25.21	10.39	35.60	56.00	20.40	ΩD
	0.890	26.29	10.40	36.69	56.00	19.31	QP
	1.388	23.21	10.41	33.62	56.00	22.38	
Line	16.486	23.24	10.57	33.81	60.00	26.19	
Line	0.153	28.14	10.58	38.72	55.82	17.10	
	0.356	18.36	10.45	28.81	48.83	20.02	AV
	0.627	13.21	10.39	23.60	46.00	22.40	
	0.890	12.29	10.40	22.69	46.00	23.31	
	1.388	11.21	10.41	21.62	46.00	24.38	
	16.486	19.24	10.57	29.81	50.00	20.19	
	0.159	34.74	10.57	45.31	65.52	20.21	
	0.381	31.29	10.43	41.72	58.25	16.53	
	0.641	30.49	10.39	40.88	56.00	15.12	ΩD
	0.871	23.60	10.40	34.00	56.00	22.00	QP
	3.881	18.57	10.48	29.05	56.00	26.95	
Neutral	16.486	24.41	10.67	35.08	60.00	24.92	
Neuman	0.159	23.74	10.57	34.31	55.52	21.21	
	0.381	17.29	10.43	27.72	48.25	20.53	
	0.641	16.49	10.39	26.88	46.00	19.12	AV
	0.871	14.60	10.40	25.00	46.00	21.00	
	3.881	11.57	10.48	22.05	46.00	23.95	
	16.486	19.41	10.67	30.08	50.00	19.92	

Model No. : 55H6D Humidity : 48%RH

Test Mode : HDMI2 Date of Test :

3840*2160@60Hz & Apr 08, 2017 1kHz Playing

Test Line	Frequency (MHz)	Meter Reading dB(µV)	Factor (dB)	Emission Level dB(µV)	Limits dB(µV)	Margin (dB)	Remark
	0.156	37.80	10.58	48.38	65.65	17.27	
	0.332	24.86	10.46	35.32	59.40	24.08	
	0.641	25.80	10.40	36.20	56.00	19.80	\bigcirc D
	0.899	25.65	10.40	36.05	56.00	19.95	QP
	3.276	23.09	10.43	33.52	56.00	22.48	
Lina	16.398	24.95	10.57	35.52	60.00	24.48	
Line	0.156	26.80	10.58	37.38	55.65	18.27	
	0.332	18.86	10.46	29.32	49.40	20.08	AV
	0.641	17.80	10.40	28.20	46.00	17.80	
	0.899	13.65	10.40	24.05	46.00	21.95	
	3.276	9.09	10.43	19.52	46.00	26.48	
	16.398	18.95	10.57	29.52	50.00	20.48	
	0.156	33.56	10.57	44.13	65.65	21.52	
	0.381	29.98	10.43	40.41	58.25	17.84	
	0.634	27.91	10.39	38.30	56.00	17.70	OD
	0.890	23.09	10.40	33.49	56.00	22.51	QP
	3.107	17.68	10.46	28.14	56.00	27.86	
Neutral	16.398	24.22	10.67	34.89	60.00	25.11	
Neutrai	0.156	22.56	10.57	33.13	55.65	22.52	
	0.381	16.98	10.43	27.41	48.25	20.84	
	0.634	10.91	10.39	21.30	46.00	24.70	AV
	0.890	12.09	10.40	22.49	46.00	23.51	
	3.107	11.68	10.46	22.14	46.00	23.86	
	16.398	18.22	10.67	28.89	50.00	21.11	

Model No. : 55H6D Humidity : 48%RH

Test Mode : HDMI3 Date of Test :

3840*2160@60Hz & Apr 08, 2017 1kHz Playing

Test Line	Frequency (MHz)	Meter Reading dB(µV)	Factor (dB)	Emission Level dB(µV)	Limits dB(µV)	Margin (dB)	Remark
	0.157	37.99	10.58	48.57	65.60	17.03	
	0.332	23.12	10.46	33.58	59.40	25.82	
	0.627	24.16	10.39	34.55	56.00	21.45	\bigcirc D
	1.141	19.44	10.40	29.84	56.00	26.16	QP
	2.993	24.20	10.43	34.63	56.00	21.37	
Line	16.486	23.45	10.57	34.02	60.00	25.98	
Line	0.157	26.99	10.58	37.57	55.60	18.03	
	0.332	10.12	10.46	20.58	49.40	28.82	AV
	0.627	11.16	10.39	21.55	46.00	24.45	
	1.141	9.44	10.40	19.84	46.00	26.16	
	2.993	11.20	10.43	21.63	46.00	24.37	
	16.486	18.45	10.57	29.02	50.00	20.98	
	0.156	32.92	10.57	43.49	65.65	22.16	
	0.385	30.68	10.43	41.11	58.17	17.06	
	0.627	22.92	10.38	33.30	56.00	22.70	OD
	0.880	21.12	10.40	31.52	56.00	24.48	QP
	3.472	24.60	10.47	35.07	56.00	20.93	
Neutral	16.839	23.74	10.67	34.41	60.00	25.59	
Neutrai	0.156	22.92	10.57	33.49	55.65	22.16	
	0.385	17.68	10.43	28.11	48.17	20.06	AV
	0.627	13.92	10.38	24.30	46.00	21.70	
	0.880	10.12	10.40	20.52	46.00	25.48	
	3.472	12.60	10.47	23.07	46.00	22.93	
	16.839	17.74	10.67	28.41	50.00	21.59	

Model No. : 55H6D Humidity : 48%RH

Test Mode : HDMI4 Date of Test :

3840*2160@60Hz & Apr 08, 2017 1kHz Playing

Test Line	Frequency (MHz)	Meter Reading dB(µV)	Factor (dB)	Emission Level dB(µV)	Limits dB(µV)	Margin (dB)	Remark
	0.153	39.36	10.58	49.94	65.82	15.88	
	0.647	29.54	10.40	39.94	56.00	16.06	
	0.880	25.71	10.40	36.11	56.00	19.89	QP
	1.403	25.29	10.41	35.70	56.00	20.30	Qr
	3.207	23.76	10.43	34.19	56.00	21.81	
Line	16.226	23.00	10.57	33.57	60.00	26.43	
Line	0.153	27.36	10.58	37.94	55.82	17.88	
	0.647	17.54	10.40	27.94	46.00	18.06	
	0.880	14.71	10.40	25.11	46.00	20.89	AV
	1.403	12.29	10.41	22.70	46.00	23.30	
	3.207	10.76	10.43	21.19	46.00	24.81	
	16.226	18.00	10.57	28.57	50.00	21.43	
	0.168	32.33	10.55	42.88	65.08	22.20	
	0.385	30.26	10.43	40.69	58.17	17.48	QP
	0.641	29.61	10.39	40.00	56.00	17.00	
	0.880	20.88	10.40	31.28	56.00	24.72	
	3.173	16.57	10.47	27.04	56.00	28.96	
Neutral	16.398	23.36	10.67	34.03	60.00	25.97	
Neutrai	0.168	20.33	10.55	30.88	55.08	24.20	
	0.385	19.26	10.43	29.69	48.17	18.48	
	0.641	15.61	10.39	26.00	46.00	20.00	AV
	0.880	12.88	10.40	23.28	46.00	22.72	
	3.173	8.57	10.47	19.04	46.00	26.96	
	16.398	17.36	10.67	28.03	50.00	21.97	

Model No. : 55H6D Humidity : 48%RH

Test Mode : HDMI1 Date of Test :

1920*1080@60Hz & Apr 08, 2017 1kHz Playing

Test Line	Frequency (MHz)	Meter Reading dB(µV)	Factor (dB)	Emission Level dB(µV)	Limits dB(µV)	Margin (dB)	Remark	
	0.155	39.50	10.58	50.08	65.74	15.66		
	0.346	29.67	10.46	40.13	59.05	18.92		
	0.627	26.71	10.39	37.10	56.00	18.90	QP	
Line	0.880	27.62	10.40	38.02	56.00	17.98	Qr	
	1.403	23.02	10.41	33.43	56.00	22.57		
	16.226	22.49	10.57	33.06	60.00	26.94		
	0.155	28.50	10.58	39.08	55.74	16.66		
	0.346	20.67	10.46	31.13	49.05	17.92	AV	
	0.627	14.71	10.39	25.10	46.00	20.90		
	0.880	13.62	10.40	24.02	46.00	21.98		
	1.403	11.02	10.41	21.43	46.00	24.57		
	16.226	19.49	10.57	30.06	50.00	19.94		
	0.155	33.29	10.57	43.86	65.74	21.88		
	0.385	29.32	10.43	39.75	58.17	18.42		
	0.641	29.33	10.39	39.72	56.00	16.28	QP	
	0.880	24.84	10.40	35.24	56.00	20.76	Qr	
	3.207	22.26	10.47	32.73	56.00	23.27		
Neutral	16.398	24.52	10.67	35.19	60.00	24.81		
Neuman	0.155	22.29	10.57	32.86	55.74	22.88		
	0.385	18.32	10.43	28.75	48.17	19.42		
	0.641	16.33	10.39	26.72	46.00	19.28	AV	
	0.880	13.84	10.40	24.24	46.00	21.76		
	3.207	12.26	10.47	22.73	46.00	23.27		
	16.398	18.52	10.67	29.19	50.00	20.81		

Model No. : 55H6D Humidity : 48%RH

Test Mode : HDMI1 Date of Test :

1280*1024@60Hz & Apr 08, 2017 1kHz Playing

Test Line	Frequency (MHz)	Meter Reading dB(µV)	Factor (dB)	Emission Level dB(µV)	Limits dB(µV)	Margin (dB)	Remark	
	0.153	40.07	10.58	50.65	65.82	15.17		
	0.356	30.20	10.45	40.65	58.83	18.18		
	0.641	25.41	10.40	35.81	56.00	20.19	QP	
Line	0.899	26.99	10.40	37.39	56.00	18.61	QP	
	2.594	23.52	10.42	33.94	56.00	22.06		
	16.398	23.73	10.57	34.30	60.00	25.70		
	0.153	27.07	10.58	37.65	55.82	18.17		
	0.356	19.20	10.45	29.65	48.83	19.18		
	0.641	14.41	10.40	24.81	46.00	21.19	AV	
	0.899	14.99	10.40	25.39	46.00	20.61	AV	
	2.594	11.52	10.42	21.94	46.00	24.06		
	16.398	19.73	10.57	30.30	50.00	19.70		
	0.155	35.42	10.57	45.99	65.74	19.75		
	0.385	31.30	10.43	41.73	58.17	16.44		
	0.627	30.10	10.38	40.48	56.00	15.52	OD	
	0.899	23.80	10.40	34.20	56.00	21.80	QP	
	3.207	18.36	10.47	28.83	56.00	27.17		
NI osstma 1	16.398	24.27	10.67	34.94	60.00	25.06		
Neutral	0.155	23.42	10.57	33.99	55.74	21.75		
	0.385	17.30	10.43	27.73	48.17	20.44		
	0.627	16.10	10.38	26.48	46.00	19.52	A 3.7	
	0.899	14.80	10.40	25.20	46.00	20.80	AV	
-	3.207	12.36	10.47	22.83	46.00	23.17		
	16.398	19.27	10.67	29.94	50.00	20.06		

LED LCD TV EUT Temperature: 22

55H6D Humidity Model No. 48%RH

HDMI1 640*480@60Hz Date of Test: Test Mode Apr 08, 2017

& 1kHz Playing

Test Line	Frequency (MHz)	Meter Reading dB(µV)	Factor (dB)	Emission Level dB(µV)	Limits dB(µV)	Margin (dB)	Remark	
	0.155	40.50	10.58	,, ,	65.74	14.66		
	0.641	30.57	10.40	40.97	56.00	15.03		
	1.160	25.42	10.40	35.82	56.00	20.18	OD	
	1.839	26.85	10.41	37.26	56.00	18.74	QP	
	2.900	23.81	10.43	34.24	56.00	21.76		
Line	16.661	23.85	10.57	34.42	60.00	25.58		
	0.155	29.50	10.58	40.08	55.74	15.66		
	0.641	19.57	10.40	29.97	46.00	16.03	AV	
	1.160	13.42	10.40	23.82	46.00	22.18		
	1.839	12.85	10.41	23.26	46.00	22.74		
	2.900	12.81	10.43	23.24	46.00	22.76		
	16.661	18.85	10.57	29.42	50.00	20.58		
	0.155	33.44	10.57	44.01	65.74	21.73		
	0.381	31.04	10.43	41.47	58.25	16.78		
	0.641	29.25	10.39	39.64	56.00	16.36	QP	
	0.890	23.01	10.40	33.41	56.00	22.59	Qr	
	3.472	19.80	10.47	30.27	56.00	25.73		
Neutral	16.226	24.55	10.67	35.22	60.00	24.78		
Neuman	0.155	23.44	10.57	34.01	55.74	21.73		
	0.381	18.04	10.43	28.47	48.25	19.78		
	0.641	17.25	10.39	27.64	46.00	18.36	AV	
	0.890	16.01	10.40	26.41	46.00	19.59		
	3.472	11.80	10.47	22.27	46.00	23.73		
	16.226	19.55	10.67	30.22	50.00	19.78		

Test Mode : HDMI 1080P Date of Test : Apr 08, 2017

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(µV)	Limits dB(µV)	Margin (dB)	Remark	
	0.157	40.44	10.58	51.02	65.60	14.58		
	0.356	29.26	10.45	39.71	58.83	19.12		
	0.641	25.54	10.40	35.94	56.00	20.06	OD	
	0.880	26.47	10.40	36.87	56.00	19.13	QP	
	2.178	23.03	10.41	33.44	56.00	22.56		
Line	16.398	23.26	10.57	33.83	60.00	26.17	<u> </u>	
	0.157	28.44	10.58	39.02	55.60	16.58		
	0.356	18.26	10.45	28.71	48.83	20.12		
	0.641	13.54	10.40	23.94	46.00	22.06	AV	
	0.880	12.47	10.40	22.87	46.00	23.13	AV	
	2.178	10.03	10.41	20.44	46.00	25.56		
	16.398	19.26	10.57	29.83	50.00	20.17		
	0.155	33.15	10.57	43.72	65.74	22.02		
	0.385	30.56	10.43	40.99	58.17	17.18		
	0.641	30.91	10.39	41.30	56.00	14.70	Ω D	
	0.899	23.05	10.40	33.45	56.00	22.55	QP	
	3.901	18.60	10.48	29.08	56.00	26.92		
Neutral	16.398	24.81	10.67	35.48	60.00	24.52		
Neutrai	0.155	24.15	10.57	34.72	55.74	21.02		
	0.385	18.56	10.43	28.99	48.17	19.18		
_	0.641	17.91	10.39	28.30	46.00	17.70	AV	
	0.899	15.05	10.40	25.45	46.00	20.55	AV	
	3.901	9.60	10.48	20.08	46.00	25.92		
	16.398	18.81	10.67	29.48	50.00	20.52		

Model No. : 55H6D Humidity : 48%RH

Test Mode : USB Play Date of Test : Apr 08, 2017

Test Line	Frequency (MHz)	Meter Reading dB(µV)	Factor (dB)	Emission Level dB(µV)	Limits dB(µV)	Margin (dB)	Remark	
	0.156	40.76	10.58	51.34	65.65	14.31		
	0.356	29.30	10.45	39.75	58.83	19.08		
	0.634	25.97	10.40	36.37	56.00	19.63	QP	
	0.880	26.20	10.40	36.60	56.00	19.40	Q1	
	2.178	23.82	10.41	34.23	56.00	21.77		
Line	16.226	23.93	10.57	34.50	60.00	25.50		
	0.156	28.76	10.58	39.34	55.65	16.31		
	0.356	18.30	10.45	28.75	48.83	20.08	AV	
	0.634	13.97	10.40	24.37	46.00	21.63		
	0.880	13.20	10.40	23.60	46.00	22.40		
	2.178	11.82	10.41	22.23	46.00	23.77		
	16.226	19.93	10.57	30.50	50.00	19.50		
	0.156	33.71	10.57	44.28	65.65	21.37		
	0.385	30.94	10.43	41.37	58.17	16.80		
	0.634	29.87	10.39	40.26	56.00	15.74	QP	
	0.880	23.41	10.40	33.81	56.00	22.19	Qr	
	3.943	20.08	10.48	30.56	56.00	25.44		
Neutral	16.661	24.35	10.67	35.02	60.00	24.98		
Neutrai	0.156	22.71	10.57	33.28	55.65	22.37		
	0.385	17.94	10.43	28.37	48.17	19.80		
	0.634	16.87	10.39	27.26	46.00	18.74	AV	
	0.880	15.41	10.40	25.81	46.00	20.19		
	3.943	9.08	10.48	19.56	46.00	26.44		
	16.661	18.35	10.67	29.02	50.00	20.98		

Model No. : 55H6D Humidity : 48%RH

Test Mode : LAN Play Date of Test : Apr 08, 2017

	<u> </u>	3.6				<u> </u>		
Test Line	Frequency (MHz)	Meter Reading	Factor (dB)	Emission Level	Limits dB(µV)	Margin (dB)	Remark	
	0.455	dB(μV)	10.50	dB(μV)		1450		
	0.155	40.60	10.58			14.56		
	0.352	30.32	10.45		58.91	18.14		
	0.647	25.26	10.40	35.66	56.00	20.34	QP	
	1.160	26.38	10.40	36.78	56.00	19.22	2 4 5	
	2.900	23.43	10.43	33.86	56.00	22.14		
Lina	16.226	23.98	10.57	34.55	60.00	25.45		
Line	0.155	28.60	10.58	39.18	55.74	16.56		
	0.352	18.32	10.45	28.77	48.91	20.14	AV	
	0.647	16.26	10.40	26.66	46.00	19.34		
	1.160	12.38	10.40	22.78	46.00	23.22		
	2.900	11.43	10.43	21.86	46.00	24.14		
	16.226	19.98	10.57	30.55	50.00	19.45		
	0.159	34.84	10.57	45.41	65.52	20.11		
	0.381	31.95	10.43	42.38	58.25	15.87		
	0.634	30.92	10.39	41.31	56.00	14.69	OD	
	0.880	23.62	10.40	34.02	56.00	21.98	QP	
	3.207	18.23	10.47	28.70	56.00	27.30		
NT 4 1	17.018	24.15	10.67	34.82	60.00	25.18		
Neutral	0.159	23.84	10.57	34.41	55.52	21.11		
	0.381	17.95	10.43	28.38	48.25	19.87		
	0.634	16.92	10.39	27.31	46.00	18.69	AV	
	0.880	14.62	10.40	25.02	46.00	20.98		
	3.207	11.23	10.47	21.70	46.00	24.30		
	17.018	18.15	10.67	28.82	50.00	21.18		

Model No. : 55H6D Humidity : 48%RH

Test Mode : MHL Date of Test : Apr 08, 2017

Test Line	Frequency (MHz)	Meter Reading dB(µV)	Factor (dB)	Emission Level dB(µV)	Limits dB(µV)	Margin (dB)	Remark	
	0.153	39.87	10.58	50.45	65.82	15.37		
	0.352	30.73	10.45	41.18	58.91	17.73		
	0.654	25.79	10.40	36.19	56.00	19.81	QP	
	0.890	26.51	10.40	36.91	56.00	19.09	Qr	
	2.594	21.78	10.42	32.20	56.00	23.80		
Line	16.226	24.43	10.57	35.00	60.00	25.00		
	0.153	27.87	10.58	38.45	55.82	17.37		
	0.352	18.73	10.45	29.18	48.91	19.73	AV	
	0.654	13.79	10.40	24.19	46.00	21.81		
	0.890	13.51	10.40	23.91	46.00	22.09		
	2.594	10.78	10.42	21.20	46.00	24.80		
	16.226	18.43	10.57	29.00	50.00	21.00		
	0.155	33.99	10.57	44.56	65.74	21.18		
	0.385	30.75	10.43	41.18	58.17	16.99		
	0.634	28.50	10.39	38.89	56.00	17.11	QP	
	0.890	24.43	10.40	34.83	56.00	21.17	QP	
	2.962	19.74	10.46	30.20	56.00	25.80		
Neutral	16.839	24.45	10.67	35.12	60.00	24.88		
Neutrai	0.155	24.99	10.57	35.56	55.74	20.18		
	0.385	17.75	10.43	28.18	48.17	19.99		
	0.634	15.50	10.39	25.89	46.00	20.11	AV	
	0.890	13.43	10.40	23.83	46.00	22.17		
ļ	2.962	11.74	10.46	22.20	46.00	23.80		
	16.839	19.45	10.67	30.12	50.00	19.88		

Model No. : 55H6D Humidity : 48%RH

Test Mode : Wifi Date of Test : Apr 08, 2017

		Meter		Emission				
Test	Frequency	Reading	Factor	Level	Limits	Margin	Remark	
Line	(MHz)	dB(μV)	(dB)	dB(μV)	$dB(\mu V)$	(dB)	Remark	
	0.159	40.25	10.58		65.52	14.69		
	0.346	30.27	10.46		59.05	18.32		
	0.647	25.68	10.40	36.08	56.00	19.92	OD	
	0.880	26.96	10.40	37.36	56.00	18.64	QP	
	3.207	24.37	10.43	34.80	56.00	21.20		
Line	16.055	23.98	10.56	34.54	60.00	25.46		
	0.159	28.25	10.58	38.83	55.52	16.69		
	0.346	18.27	10.46	28.73	49.05	20.32		
	0.647	13.68	10.40	24.08	46.00	21.92		
	0.880	13.96	10.40	24.36	46.00	21.64	AV	
	3.207	11.37	10.43	21.80	46.00	24.20		
	16.055	19.98	10.56	30.54	50.00	19.46		
	0.156	33.44	10.57	44.01	65.65	21.64		
	0.381	30.09	10.43	40.52	58.25	17.73		
	0.647	30.72	10.39	41.11	56.00	14.89	QP	
	0.880	24.82	10.40	35.22	56.00	20.78	Qr	
	2.993	19.54	10.46	30.00	56.00	26.00		
Neutral	16.226	24.74	10.67	35.41	60.00	24.59		
Neutrai	0.156	22.44	10.57	33.01	55.65	22.64		
	0.381	17.09	10.43	27.52	48.25	20.73		
	0.647	16.72	10.39	27.11	46.00	18.89		
	0.880	13.82	10.40	24.22	46.00	21.78		
<u> </u>	2.993	11.54	10.46	22.00	46.00	24.00		
	16.226	19.74	10.67	30.41	50.00	19.59		

4 RADIATED EMISSION TEST

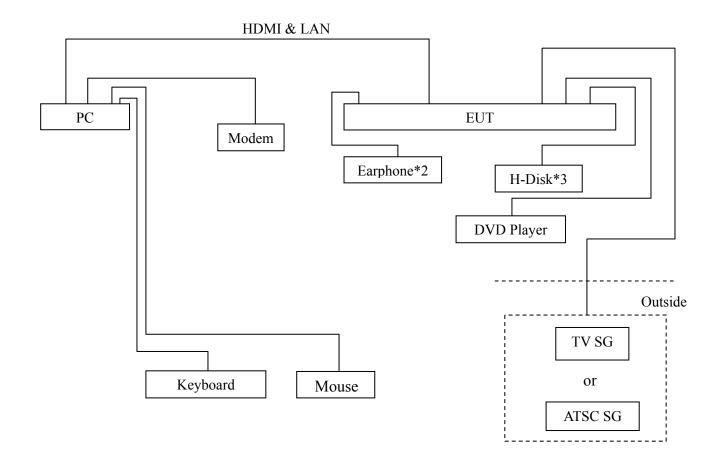
4.1 Test Equipment

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	101303	Apr 27, 2017	Apr 26, 2018
2.	Preamplifier	Agilent	8447D	2944A06664	Jun 25, 2016	Jun 24, 2017
3.	Preamplifier	HP	8449B	3008A00864	Mar 20, 2017	Mar 19, 2018
4.	Bi-log Antenna	TESEQ	CBL6112D	23193	Mar 20, 2017	Mar 19, 2018
5.	Horn Antenna	EMCO	3115	9607-4878	Apr 27, 2017	Apr 26, 2018
6.	Spectrum	Agilent	E7405A	MY45106600	Jun 25, 2016	Jun 24, 2017
7.	Software	Audix	e3	6.2007-9-10		-

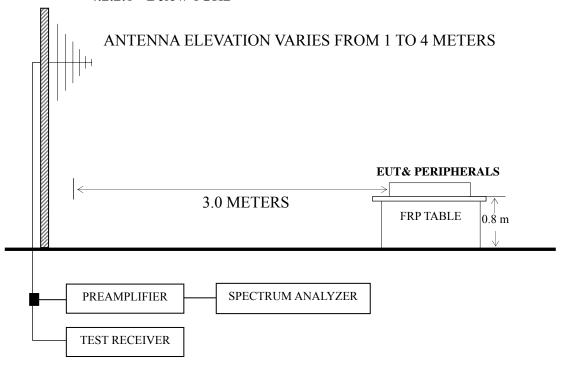
4.2 Block Diagram of Test Setup

4.2.1 EUT & Peripherals



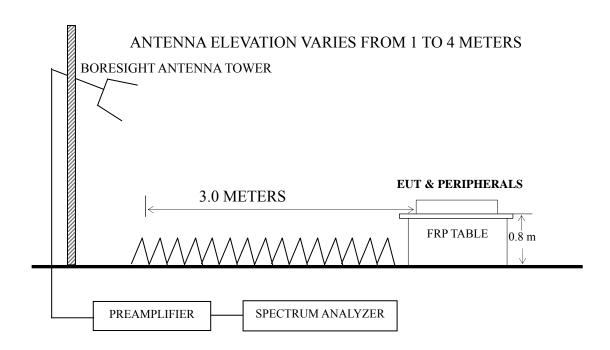
4.2.2 Radiated emission test setup

4.2.2.1 Below 1GHz



: 50 ohm Coaxial Switch

4.2.2.2 Above 1GHz



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 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 the maximum resolution 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
HDMI1 3840*2160@60Hz & 1kHz Playing	P30
HDMI2 3840*2160@60Hz & 1kHz Playing	P31-P32
HDMI3 3840*2160@60Hz & 1kHz Playing	P33
HDMI4 3840*2160@60Hz & 1kHz Playing	P34
HDMI2 1920*1080@60Hz & 1kHz Playing	P35
HDMI2 1280*1024@60Hz & 1kHz Playing	P36
HDMI2 640*480@60Hz & 1kHz Playing	P37
HDMI 1080P	P38
USB Play	P39
LAN Play	P40
MHL	P41
Wifi	P42

- 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 HDMI2 3840*2160@60Hz & 1kHz Playing mode. The worst emission at horizontal polarization was detected at 890.728 MHz with corrected signal level of 42.60dB (μ V/m) (limit is 46.00 dB (μ V/m)), when the antenna was 2.40 m height and the turntable was at 255°. The worst emission at vertical polarization was detected at 721.726MHz with corrected signal level of 42.86dB (μ V/m) (limit is 46.00 dB (μ V/m)), when the antenna was 1.9 m height and the turntable was at 75°.

EUT : LED LCD TV Temperature : 22

Model No. : 55H6D Humidity : 60%RH

Test Mode : HDMI1 3840*2160@60Hz Date of Test : Apr 21, 2017

Polarization	Frequency (MHz)	Meter Reading dB (µV)	Antenna Factor (dB/m)		Emission Level dB (µV/m)	Limits dB ($\mu V/m$)	Margin (dB)
	67.913	23.58	7.17	0.82	31.57	40.00	8.43
	132.221	24.29	12.47	1.19	37.95	43.50	5.55
Horizontal	216.783	26.76	10.72	1.53	39.01	46.00	6.99
Попідопіаї	235.816	27.83	11.92	1.59	41.34	46.00	4.66
	593.050	20.87	18.75	2.50	42.12	46.00	3.88
	890.728	17.57	21.30	3.07	41.94	46.00	4.06
	30.962	15.57	17.91	0.57	34.05	40.00	5.95
	66.034	26.85	6.93	0.81	34.59	40.00	5.41
Vertical	164.908	24.75	11.20	1.35	37.30	43.50	6.20
vertical	241.676	27.69	12.24	1.61	41.54	46.00	4.46
	593.050	21.17	18.75	2.50	42.42	46.00	3.58
	890.728	17.79	21.30	3.07	42.16	46.00	3.84

Model No. : 55H6D Humidity : 60%RH

Test Mode : HDMI2 3840*2160@60Hz Date of Test : Apr 21, 2017

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
	85.898	21.12	10.27	0.93		32.32	40.00	7.68	
	170.195	23.38	10.70	1.37		35.45	43.50	8.05	
	245.090	26.02	12.60	1.62		40.24	46.00	5.76	QP
	330.195	23.91	14.40	1.85		40.16	46.00	5.84	Qr
	721.726	19.88	19.50	2.75		42.13	46.00	3.87	
Horizontal	890.728	18.23	21.30	3.07		42.60	46.00	3.40	
Поптенца	1464.692	52.29	25.48	4.02	35.79	46.00	74.00	28.00	
	2251.658	45.42	27.98	5.02	35.20	43.22	74.00	30.78	PK
	3280.305	41.73	31.08	6.18	34.89	44.10	74.00	29.90	
	1464.692	35.67	25.48	4.02	35.79	29.38	54.00	24.62	
	2251.658	28.62	27.98	5.02	35.20	26.42	54.00	27.58	AV
	3280.305	27.67	31.08	6.18	34.89	30.04	54.00	23.96	

Model No. : 55H6D Humidity : 60%RH

Test Mode : HDMI2 3840*2160@60Hz & Date of Test : Apr 21, 2017

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
	31.955	16.13	17.30	0.58		34.01	40.00	5.99	
	63.983	27.54	6.76	0.80		35.10	40.00	4.90	
	235.816	25.55	11.92	1.59		39.06	46.00	6.94	ΩD
	593.050	19.94	18.75	2.50		41.19	46.00	4.81	QP
	721.726	20.61	19.50	2.75		42.86	46.00	3.14	
Vertical	890.728	17.69	21.30	3.07		42.06	46.00	3.94	
Vertical	1164.509	50.12	24.30	3.55	36.22	41.75	74.00	32.25	
	1496.525	47.11	25.59	4.08	35.75	41.03	74.00	32.97	PK
	2525.249	43.90	28.50	5.35	35.20	42.55	74.00	31.45	
	1164.509	33.19	24.30	3.55	36.22	24.82	54.00	29.18	
	1496.525	30.89	25.59	4.08	35.75	24.81	54.00	29.19	AV
	2525.249	28.72	28.50	5.35	35.20	27.37	54.00	26.63	

EUT : LED LCD TV Temperature : 22

Model No. : 55H6D Humidity : 60%RH

Test Mode : HDMI3 3840*2160@60Hz & Date of Test : Apr 21, 2017

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)		Emission Level dB (µV/m)	Limits dB (µV/m)	Margin (dB)
	77.051	25.27	8.56	0.87	34.70	40.00	5.30
	99.878	24.41	12.34	1.00	37.75	43.50	5.75
Horizontal	297.224	24.36	13.60	1.75	39.71	46.00	6.29
Horizontai	446.414	20.45	16.73	2.15	39.33	46.00	6.67
	719.200	19.80	19.27	2.75	41.82	46.00	4.18
	896.997	18.54	21.17	3.07	42.78	46.00	3.22
	30.962	15.32	17.71	0.57	33.60	40.00	6.40
	73.876	25.96	8.13	0.86	34.95	40.00	5.05
Vertical	185.138	25.51	10.20	1.43	37.14	43.50	6.36
verticai	473.835	21.04	17.14	2.20	40.38	46.00	5.62
	719.200	20.63	19.27	2.75	42.65	46.00	3.35
	890.728	17.85	21.10	3.07	42.02	46.00	3.98

EUT : LED LCD TV Temperature : 22

Model No. : 55H6D Humidity : 60%RH

Test Mode : HDMI4 3840*2160@60Hz & Date of Test : Apr 21, 2017

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)		Emission Level dB (µV/m)	Limits dB (µV/m)	Margin (dB)
	77.051	24.70	8.56	0.87	34.13	40.00	5.87
	183.201	24.81	10.23	1.42	36.46	43.50	7.04
Horizontal	297.224	24.67	13.60	1.75	40.02	46.00	5.98
Попідопіаї	449.556	22.07	16.80	2.16	41.03	46.00	4.97
	721.726	19.74	19.30	2.75	41.79	46.00	4.21
	890.728	18.13	21.10	3.07	42.30	46.00	3.70
	32.979	16.20	16.67	0.59	33.46	40.00	6.54
	73.876	25.28	8.13	0.86	34.27	40.00	5.73
Vertical	219.845	27.74	11.00	1.54	40.28	46.00	5.72
verticai	297.224	23.91	13.60	1.75	39.26	46.00	6.74
	475.499	21.93	17.16	2.22	41.31	46.00	4.69
	890.728	17.86	21.10	3.07	42.03	46.00	3.97

EUT : LED LCD TV Temperature : 22

Model No. : 55H6D Humidity : 60%RH

Test Mode : HDMI2 1920*1080@60Hz & Date of Test : Apr 21, 2017

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)		Emission Level dB (µV/m)	Limits dB $(\mu V/m)$	Margin (dB)
	148.963	25.19	11.88	1.28	38.35	43.50	5.15
	234.991	25.89	11.90	1.59	39.38	46.00	6.62
Horizontal	444.851	20.35	16.70	2.15	39.20	46.00	6.80
Пописний	593.050	20.11	18.75	2.50	41.36	46.00	4.64
	742.259	18.57	19.73	2.79	41.09	46.00	4.91
	896.997	17.41	21.17	3.07	41.65	46.00	4.35
	61.995	27.34	6.68	0.79	34.81	40.00	5.19
	148.963	25.02	11.88	1.28	38.18	43.50	5.32
Vertical	235.816	25.96	11.92	1.59	39.47	46.00	6.53
verticai	593.050	19.55	18.75	2.50	40.80	46.00	5.20
	742.259	18.76	19.73	2.79	41.28	46.00	4.72
	890.728	17.47	21.30	3.07	41.84	46.00	4.16

 EUT
 :
 LED LCD TV
 Temperature :
 22

 Model No.
 :
 55H6D
 Humidity :
 60%RH

 Test Mode
 :
 HDMI2 1280*1024@60Hz & lkHz Playing
 Date of Test :
 Apr 21, 2017

Polarization	Frequency (MHz)	Meter Reading dB (µV)	Antenna Factor (dB/m)		Emission Level dB (µV/m)	Limits dB (µV/m)	Margin (dB)
	85.898	21.39	10.27	0.93	32.59	40.00	7.41
	234.991	27.36	11.90	1.59	40.85	46.00	5.15
Horizontal	324.456	25.00	14.29	1.83	41.12	46.00	4.88
Попідопіаї	539.478	20.08	18.10	2.36	40.54	46.00	5.46
	647.386	19.55	19.63	2.61	41.79	46.00	4.21
	893.857	17.11	21.23	3.07	41.41	46.00	4.59
	63.092	27.20	6.73	0.79	34.72	40.00	5.28
	107.888	23.84	12.45	1.05	37.34	43.50	6.16
Vertical	235.816	26.58	11.92	1.59	40.09	46.00	5.91
verticai	324.456	24.75	14.29	1.83	40.87	46.00	5.13
	539.478	21.12	18.10	2.36	41.58	46.00	4.42
	647.386	18.12	19.63	2.61	40.36	46.00	5.64

EUT : LED LCD TV Temperature : 22

Model No. : 55H6D Humidity : 60%RH

Test Mode : HDMI2 640*480@60Hz & 1kHz Playing Date of Test : Apr 21, 2017

Polarization	Frequency (MHz)	Meter Reading dB (µV)	Antenna Factor (dB/m)		Emission Level dB (µV/m)	Limits dB (µV/m)	Margin (dB)
	84.999	21.63	10.20	0.92	32.75	40.00	7.25
	159.784	24.95	11.35	1.32	37.62	43.50	5.88
Horizontal	235.816	27.53	11.92	1.59	41.04	46.00	4.96
Horizontal	447.982	17.08	16.83	2.15	36.06	46.00	9.94
	640.611	14.48	19.70	2.59	36.77	46.00	9.23
	890.728	16.57	21.30	3.07	40.94	46.00	5.06
	63.092	27.10	6.73	0.79	34.62	40.00	5.38
	159.784	24.15	11.35	1.32	36.82	43.50	6.68
Vertical	235.816	25.78	11.92	1.59	39.29	46.00	6.71
verticai	454.310	17.05	16.90	2.16	36.11	46.00	9.89
	640.611	16.06	19.70	2.59	38.35	46.00	7.65
	919.287	12.58	21.70	3.12	37.40	46.00	8.60

EUT : LED LCD TV Temperature : 22

Model No. : 55H6D Humidity : 60%RH

Test Mode : USB Play Date of Test : Apr 21, 2017

Polarization	Frequency (MHz)	Meter Reading dB (µV)	Antenna Factor (dB/m)		Emission Level dB (µV/m)	Limits dB ($\mu V/m$)	Margin (dB)
	83.522	22.14	9.89	0.91	32.94	40.00	7.06
	133.151	21.98	12.40	1.20	35.58	43.50	7.92
Horizontal	216.024	25.34	10.66	1.53	37.53	46.00	8.47
попиона	241.676	27.12	12.24	1.61	40.97	46.00	5.03
	463.970	18.55	17.02	2.19	37.76	46.00	8.24
	866.088	14.79	20.70	3.03	38.52	46.00	7.48
	30.317	14.02	18.34	0.56	32.92	40.00	7.08
	57.796	27.35	6.84	0.76	34.95	40.00	5.05
Vertical	158.668	22.19	11.40	1.32	34.91	43.50	8.59
vertical	238.310	26.93	11.96	1.60	40.49	46.00	5.51
	463.970	19.59	17.02	2.19	38.80	46.00	7.20
	903.309	13.54	21.10	3.09	37.73	46.00	8.27

EUT : LED LCD TV Temperature : 22

Model No. : 55H6D Humidity : 60%RH

Test Mode : USB Play Date of Test : Apr 21, 2017

Polarization	Frequency (MHz)	Meter Reading dB (µV)	Antenna Factor (dB/m)		Emission Level dB (µV/m)	Limits dB (µV/m)	Margin (dB)
	83.522	22.14	9.89	0.91	32.94	40.00	7.06
	133.151	21.98	12.40	1.20	35.58	43.50	7.92
Horizontal	216.024	25.34	10.66	1.53	37.53	46.00	8.47
попідопіаї	241.676	27.12	12.24	1.61	40.97	46.00	5.03
	463.970	18.55	17.02	2.19	37.76	46.00	8.24
	866.088	14.79	20.70	3.03	38.52	46.00	7.48
	30.317	14.02	18.34	0.56	32.92	40.00	7.08
	57.796	27.35	6.84	0.76	34.95	40.00	5.05
Vertical	158.668	22.19	11.40	1.32	34.91	43.50	8.59
verticai	238.310	26.93	11.96	1.60	40.49	46.00	5.51
	463.970	19.59	17.02	2.19	38.80	46.00	7.20
	903.309	13.54	21.10	3.09	37.73	46.00	8.27

EUT : LED LCD TV Temperature : 22

Model No. : 55H6D Humidity : 60%RH

Test Mode : LAN Play Date of Test : Apr 21, 2017

Polarization	Frequency (MHz)	Meter Reading dB (µV)	Antenna Factor (dB/m)		Emission Level dB (µV/m)	Limits dB ($\mu V/m$)	Margin (dB)
	81.212	22.27	9.34	0.90	32.51	40.00	7.49
	137.420	22.23	12.66	1.22	36.11	43.50	7.39
Horizontal	245.951	25.96	12.62	1.62	40.20	46.00	5.80
попиона	381.249	19.09	16.10	1.99	37.18	46.00	8.82
	452.720	20.03	16.90	2.16	39.09	46.00	6.91
	890.728	16.12	21.30	3.07	40.49	46.00	5.51
	31.731	15.37	17.47	0.58	33.42	40.00	6.58
	65.343	26.63	6.83	0.81	34.27	40.00	5.73
Vertical	238.310	25.45	11.96	1.60	39.01	46.00	6.99
vertical	459.114	18.72	16.90	2.17	37.79	46.00	8.21
	663.473	16.71	19.30	2.65	38.66	46.00	7.34
	887.610	13.62	21.30	3.07	37.99	46.00	8.01

EUT : LED LCD TV Temperature : 22

Model No. : 55H6D Humidity : 60%RH

Test Mode : MHL Date of Test : Apr 21, 2017

Polarization	Frequency (MHz)	Meter Reading dB (µV)	Antenna Factor (dB/m)		Emission Level dB (µV/m)	Limits dB (µV/m)	Margin (dB)
	78.965	23.07	8.93	0.88	32.88	40.00	7.12
	141.330	21.77	12.93	1.24	35.94	43.50	7.56
Horizontal	239.987	26.42	12.00	1.60	40.02	46.00	5.98
Пописний	454.310	19.63	16.90	2.16	38.69	46.00	7.31
	682.348	15.78	19.50	2.67	37.95	46.00	8.05
	890.728	16.13	21.30	3.07	40.50	46.00	5.50
	32.067	15.32	17.22	0.58	33.12	40.00	6.88
	66.266	26.91	6.97	0.82	34.70	40.00	5.30
Vertical	232.532	25.46	11.82	1.58	38.86	46.00	7.14
verticai	259.234	20.96	13.50	1.66	36.12	46.00	9.88
	459.114	20.14	16.90	2.17	39.21	46.00	6.79
	965.542	12.99	21.93	3.18	38.10	54.00	15.90

EUT : LED LCD TV Temperature : 22

Model No. : 55H6D Humidity : 60%RH

Test Mode : Wifi Date of Test : Apr 21, 2017

Polarization	Frequency (MHz)	Meter Reading dB (µV)	Antenna Factor (dB/m)		Emission Level dB (µV/m)	Limits dB ($\mu V/m$)	Margin (dB)
	81.212	23.07	9.34	0.90	33.31	40.00	6.69
	184.490	24.46	10.30	1.42	36.18	43.50	7.32
Horizontal	250.301	24.38	12.70	1.63	38.71	46.00	7.29
Поптенца	444.851	20.39	16.70	2.15	39.24	46.00	6.76
	771.449	13.71	20.00	2.85	36.56	46.00	9.44
	922.516	14.62	21.57	3.12	39.31	46.00	6.69
	30.531	13.86	18.25	0.56	32.67	40.00	7.33
	58.819	27.45	6.72	0.76	34.93	40.00	5.07
Vertical	165.487	22.76	11.13	1.35	35.24	43.50	8.26
verticai	242.525	25.02	12.36	1.61	38.99	46.00	7.01
	463.970	17.04	17.02	2.19	36.25	46.00	9.75
	881.407	15.01	21.00	3.05	39.06	46.00	6.94

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5 DEVIATION TO TEST SPECIFICATIONS

None.

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6 DEBUG DESCRIPTION

The following components are used during the countermeasure procedures:

Name	M/N	Manufacturer	Location
SMcontact	SMR-TSL-4-3.5-5R	Qingdao Joinset Co., Ltd	See Internal Photos Figure 20

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:

(BYRON WU)

Audix Technology (Shanghai) Co., Ltd. Report No.: ACI-F17176