

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

LED LCD TV

Model No.	Brand
55R60+0D2, 55R6D+, 55R6+0D, 55R6+0D1, 55R6+0D2, 55R60+0D, 55R60+0D1, 55R6D, 55R6DM, 55R6607, 55R6107 55DU64+0	Hisense

FCC ID : W9HLCDF0121

Prepared For : Hisense Electric Co., Ltd.  
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Development Zone, Qingdao, China

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Report No. : ACI-F17191  
Date of Test : May 02-14, 2017  
Date of Report : Jun 01, 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.	Brand	Power Supply
Refer to Sec.2.1	Hisense	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 Sec.2.1) which was tested in 3m anechoic chamber May 02-14, 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.

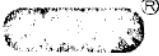
This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

***The test results for EUT's TV functions are contained in No.F17190, a Verification report.***

Date of Test : May 02-14, 2017 Date of Report : Jun 01, 2017

Producer : Huimin Yan  
HUI MIN YAN / Assistant

Review : Byron Wu  
BYRON WU / Deputy Assistant Manager

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

Signatory :   
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
<b>EMISSION</b>			
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	:	<input checked="" type="checkbox"/> Production <input type="checkbox"/> Pre-product <input type="checkbox"/> Pro-type
Model No	:	55R60+0D2, 55R6D+, 55R6+0D, 55R6+0D1, 55R6+0D2, 55R60+0D, 55R60+0D1, 55R6D, 55R6DM, 55R6607, 55R6107, 55DU64+0
Brand	:	Hisense
Note#1	:	The above models are all the same except for the model number. The 55R6D was tested and reported in the report.
Note#2	:	“+” represents any of the Arabic numeral.
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.
Max Resolution	:	3840*2160@60Hz
LCD Panel	:	Manufacturer : Hisense M/N : HD550K3U82-K1
Tuner	:	Manufacturer : SILICON LABS M/N : Si2151-A10
WIFI Modular	:	FCC ID: PPQ-WN4519L
HDMI Cable*3 (Lab provide)	:	Shielded, Detachable, 1.80m
Power Cord	:	Unshielded, Detachable, 1.80m, 2C

USB Cable : Shielded, Detachable, 1.00m  
(Lab provide)

LAN Cable : Unshielded, Detachable, 1.50m

**Remark:**

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

Side Port:

- (1) One USB Port : Connected with Hard-Disk
- (2) One AV IN Port : Connected with DVD Player
- (3) One ANT Port : Connected with ATSC SG/TV SG
- (4) One HDMI1 Port : Connected with PC
- (5) One HDMI2 Port : Connected with PC
- (6) One HDMI3 Port : Connected with DVD Player
- (7) One DIGITAL AUDIO OUT Port : Connected with Audio Converter to Earphone
- (8) One AUDIO OUT Port : Connected with Earphone
- (9) One ETHERNET Port : Connected with PC

## 2.2 Peripherals

### 2.2.1 PC

Manufacturer : HP  
Model Number : Pro3340  
Serial Number : 6CR2512VFD  
Power Cord : Unshielded, Detachable, 1.8m  
Certificate : CE/EMC, FCC DoC, VCCI, UL, CCC

### 2.2.2 Keyboard

Manufacturer : Microsoft  
Model Number : RT2300  
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, 1.8m  
Certificate : CCC

## 2.2.5 Earphone \*2

Manufacturer : EDIFIER  
Model Number : H210

## 2.2.6 ATSC Signal Generator

Manufacturer : SENCORE  
Model Number : ATSC997  
Serial Number : 6790071

## 2.2.7 TV Signal Generator

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

## 2.2.8 DVD PLAYER

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

## 2.2.9 Hard Disk

Manufacturer : Tetasy  
Model Number : F12  
Serial Number : A010022-486006  
Data Cable : Shielded, Detachable, 1.8m.  
Certificate : CE, FCC DoC

## 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 = 4.6dB(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

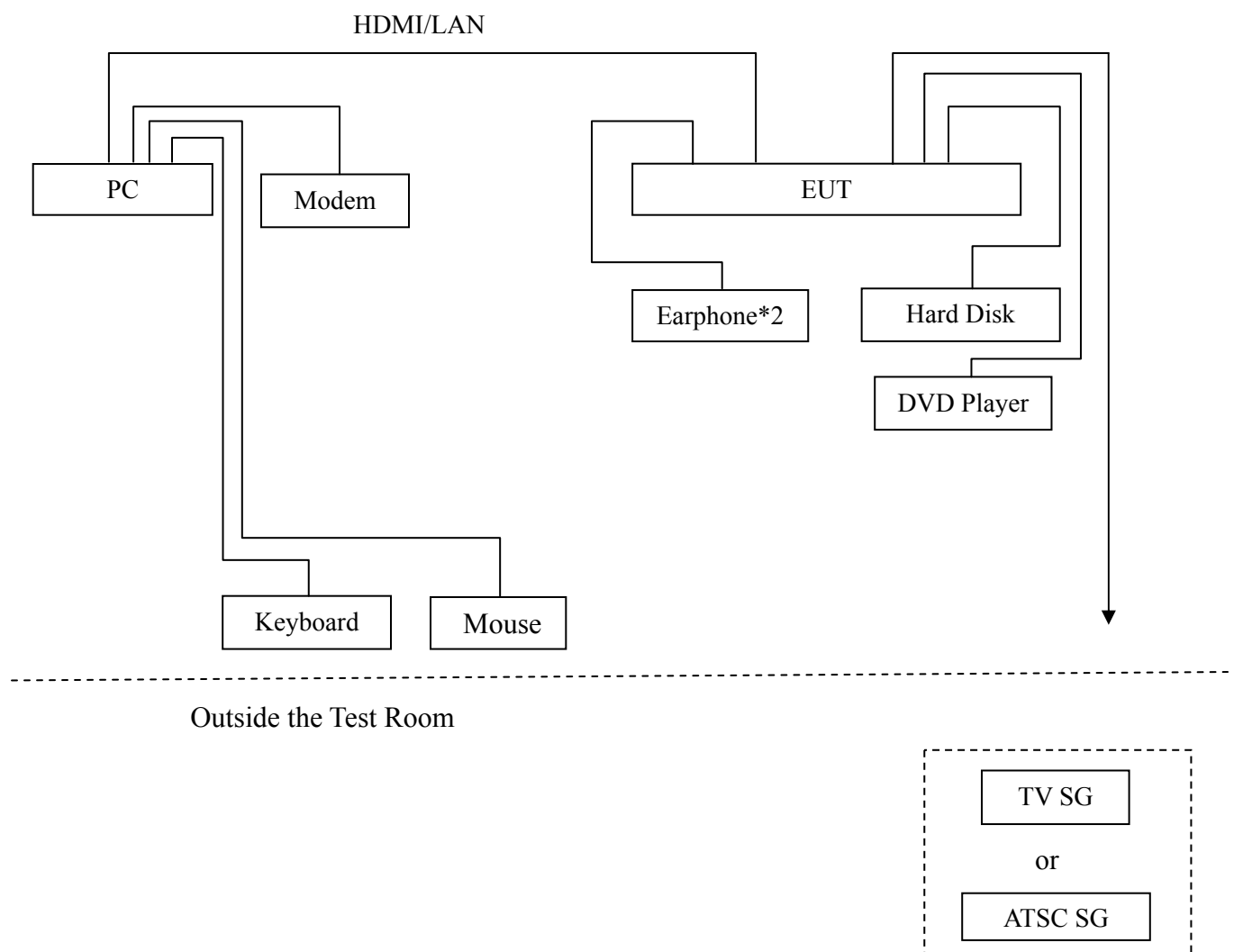
#### 3.1 Test Equipment

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

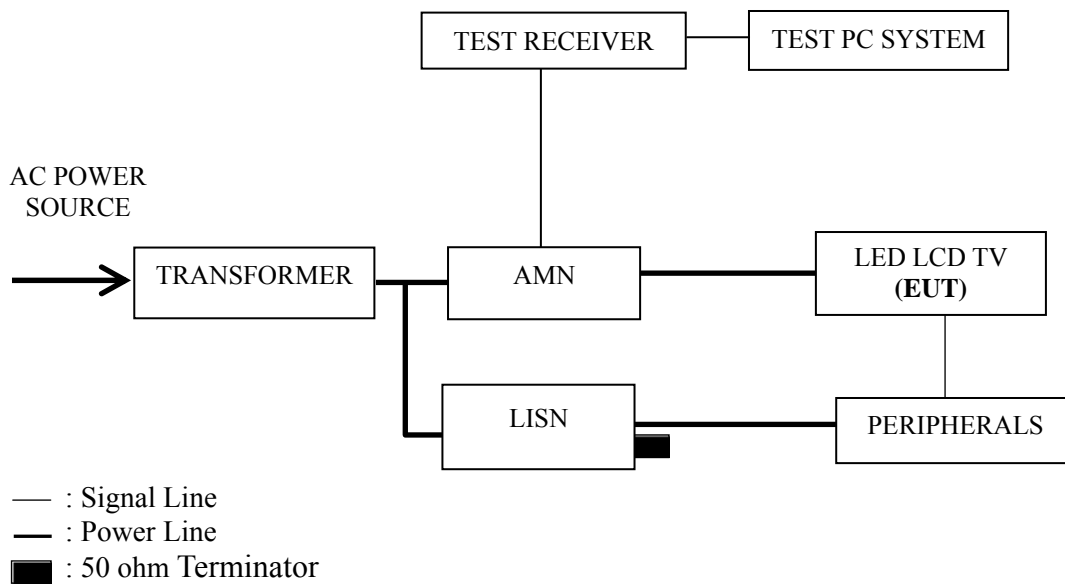
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Test Receiver	R&S	ESCI	101302	Apr 27, 2017	Apr 26, 2018
2.	Artificial Mains Network (AMN)	R&S	ENV4200	100125	Jun 25, 2016	Jun 24, 2017
3.	Line Impedance Stabilization Network (LISN)	Kyoritsu	KNW-407	8-1280-4	Mar 20, 2017	Mar 19, 2018
4.	50Ω Terminator	Anritsu	BNC	001	Mar 20, 2017	Mar 19, 2018
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 ( $\mu$ V)	
	Quasi-peak	Average
0.15 ~ 0.5	66~56	56~46
0.5 ~ 5	56	46
5 ~ 30	60	50
NOTE 1 – The lower limit shall apply at the transition frequencies. NOTE 2 – The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz~0.50 MHz		

### 3.4 Test Configuration

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

### 3.5 Operating Condition of EUT

- 3.5.1 Setup the EUT and peripherals as shown in Sec. 3.2.
- 3.5.2 Turn on the power of all equipments and the EUT.
- 3.5.3 Set the contrast & brightness of EUT to maximum.
- 3.5.4 PC system ran the self-test program “EMC Test” by windows XP and sent “H” characters to EUT through graphic card, the EUT’s screen displayed and filled with “H” pattern by its resolution (Via 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 H-Disk.
- 3.5.7 In LAN Play mode, set the EUT play digital media through LAN port.
- 3.5.8 In WIFI mode, set the EUT play digital media through WIFI.
- 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
HDMI1 3840*2160@60Hz & 1kHz Playing
HDMI2 3840*2160@60Hz & 1kHz Playing
HDMI3 3840*2160@30Hz & 1kHz Playing
HDMI1 1920*1080@60Hz & 1kHz Playing
HDMI1 1280*1024@60Hz & 1kHz playing
HDMI1 640*480@60Hz & 1kHz playing
HDMI1080P
USB Play
LAN Play
Wifi

### 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 C63.4:2014 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	P13
HDMI2 3840*2160@60Hz & 1kHz Playing	P14
HDMI3 3840*2160@30Hz & 1kHz Playing	P15
HDMI1 1920*1080@60Hz & 1kHz Playing	P16
HDMI1 1280*1024@60Hz & 1kHz playing	P17
HDMI1 640*480@60Hz & 1kHz playing	P18
HDMI1080P	P19
USB Play	P20
LAN Play	P21
Wifi	P22

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 HDMI1 640\*480@60Hz & 1kHz playing test mode. The worst emission is detected at 0.385MHz (Quasi-Peak Value) with corrected signal level of 38.64 dB (μV) (limit is 48.17 dB (μV)), when the Neutral of the EUT is connected to AMN.

EUT : LED LCD TV Temperature : 22°C

Model No. : 55R6D Humidity : 48%RH

Test Mode : HDMI1 3840\*2160@60Hz Date of Test : May 02, 2017  
& 1kHz Playing

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.190	38.80	10.54	49.34	64.02	14.68	QP
	0.371	31.02	10.45	41.47	58.47	17.00	
	0.627	28.78	10.39	39.17	56.00	16.83	
	0.862	26.32	10.40	36.72	56.00	19.28	
	1.610	24.80	10.40	35.20	56.00	20.80	
	17.755	26.28	10.58	36.86	60.00	23.14	
	0.190	27.80	10.54	38.34	54.02	15.68	AV
	<b>0.371</b>	<b>27.02</b>	<b>10.45</b>	<b>37.47</b>	<b>48.47</b>	<b>11.00</b>	
	0.627	16.78	10.39	27.17	46.00	18.83	
	0.862	12.32	10.40	22.72	46.00	23.28	
	1.610	12.80	10.40	23.20	46.00	22.80	
	17.755	20.28	10.58	30.86	50.00	19.14	
Neutral	0.170	37.99	10.55	48.54	64.94	16.40	QP
	0.367	23.04	10.44	33.48	58.56	25.08	
	0.611	24.68	10.38	35.06	56.00	20.94	
	0.871	28.97	10.40	39.37	56.00	16.63	
	2.396	25.61	10.44	36.05	56.00	19.95	
	17.755	25.08	10.69	35.77	60.00	24.23	
	0.170	22.99	10.55	33.54	54.94	21.40	AV
	0.367	10.04	10.44	20.48	48.56	28.08	
	0.611	7.68	10.38	18.06	46.00	27.94	
	0.871	14.97	10.40	25.37	46.00	20.63	
	2.396	12.61	10.44	23.05	46.00	22.95	
	17.755	20.08	10.69	30.77	50.00	19.23	

TEST ENGINEER: BYRON WU

EUT : LED LCD TV Temperature : 22°C

Model No. : 55R6D Humidity : 48%RH

Test Mode : HDMI2 3840\*2160@60Hz & 1kHz Playing Date of Test : May 02, 2017

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.174	38.10	10.56	48.66	64.77	16.11	QP
	0.381	30.67	10.44	41.11	58.25	17.14	
	0.880	23.34	10.40	33.74	56.00	22.26	
	1.106	22.28	10.40	32.68	56.00	23.32	
	3.840	20.67	10.44	31.11	56.00	24.89	
	17.383	24.15	10.58	34.73	60.00	25.27	
	0.174	24.10	10.56	34.66	54.77	20.11	AV
	<b>0.381</b>	<b>24.67</b>	<b>10.44</b>	<b>35.11</b>	<b>48.25</b>	<b>13.14</b>	
	0.880	14.34	10.40	24.74	46.00	21.26	
	1.106	10.28	10.40	20.68	46.00	25.32	
	3.840	11.67	10.44	22.11	46.00	23.89	
	17.383	18.15	10.58	28.73	50.00	21.27	
Neutral	0.174	36.09	10.55	46.64	64.77	18.13	QP
	0.377	30.32	10.43	40.75	58.34	17.59	
	0.621	23.91	10.38	34.29	56.00	21.71	
	0.871	20.57	10.40	30.97	56.00	25.03	
	3.041	17.32	10.46	27.78	56.00	28.22	
	17.755	24.61	10.69	35.30	60.00	24.70	
	0.174	23.09	10.55	33.64	54.77	21.13	AV
	0.377	20.32	10.43	30.75	48.34	17.59	
	0.621	9.91	10.38	20.29	46.00	25.71	
	0.871	12.57	10.40	22.97	46.00	23.03	
	3.041	8.32	10.46	18.78	46.00	27.22	
	17.755	19.61	10.69	30.30	50.00	19.70	

TEST ENGINEER: BYRON WU

EUT : LED LCD TV Temperature : 22°C

Model No. : 55R6D Humidity : 48%RH

Test Mode : HDMI3 3840\*2160@30Hz & 1kHz Playing Date of Test : May 02, 2017

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.194	37.33	10.54	47.87	63.84	15.97	QP
	0.377	30.99	10.44	41.43	58.34	16.91	
	0.614	25.38	10.39	35.77	56.00	20.23	
	0.880	27.51	10.40	37.91	56.00	18.09	
	7.252	19.99	10.47	30.46	60.00	29.54	
	17.568	24.30	10.58	34.88	60.00	25.12	
	0.194	26.33	10.54	36.87	53.84	16.97	AV
	<b>0.377</b>	<b>23.99</b>	<b>10.44</b>	<b>34.43</b>	<b>48.34</b>	<b>13.91</b>	
	0.614	10.38	10.39	20.77	46.00	25.23	
	0.880	15.51	10.40	25.91	46.00	20.09	
	7.252	12.99	10.47	23.46	50.00	26.54	
	17.568	19.30	10.58	29.88	50.00	20.12	
Neutral	0.174	36.15	10.55	46.70	64.77	18.07	QP
	0.381	29.93	10.43	40.36	58.25	17.89	
	0.627	27.87	10.38	38.25	56.00	17.75	
	0.871	20.41	10.40	30.81	56.00	25.19	
	2.396	26.80	10.44	37.24	56.00	18.76	
	17.383	24.09	10.69	34.78	60.00	25.22	
	0.174	23.15	10.55	33.70	54.77	21.07	AV
	0.381	18.93	10.43	29.36	48.25	18.89	
	0.627	16.87	10.38	27.25	46.00	18.75	
	0.871	11.41	10.40	21.81	46.00	24.19	
	2.396	15.80	10.44	26.24	46.00	19.76	
	17.383	18.09	10.69	28.78	50.00	21.22	

TEST ENGINEER: BYRON WU

EUT : LED LCD TV Temperature : 22°C

Model No. : 55R6D Humidity : 48%RH

Test Mode : HDMI1 1920\*1080@60Hz & 1kHz Playing Date of Test : May 02, 2017

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.199	38.42	10.53	48.95	63.67	14.72	QP
	0.381	30.25	10.44	40.69	58.25	17.56	
	0.634	28.07	10.40	38.47	56.00	17.53	
	0.890	26.32	10.40	36.72	56.00	19.28	
	7.175	21.98	10.47	32.45	60.00	27.55	
	17.849	24.89	10.58	35.47	60.00	24.53	
	0.199	27.42	10.53	37.95	53.67	15.72	AV
	0.381	22.25	10.44	32.69	48.25	15.56	
	0.634	16.07	10.40	26.47	46.00	19.53	
	0.890	18.32	10.40	28.72	46.00	17.28	
	7.175	15.98	10.47	26.45	50.00	23.55	
	17.849	19.89	10.58	30.47	50.00	19.53	
Neutral	0.174	36.71	10.55	47.26	64.77	17.51	QP
	0.385	32.29	10.43	42.72	58.17	15.45	
	0.634	30.72	10.39	41.11	56.00	14.89	
	1.129	24.71	10.40	35.11	56.00	20.89	
	7.329	19.57	10.53	30.10	60.00	29.90	
	17.755	24.93	10.69	35.62	60.00	24.38	
	0.174	23.71	10.55	34.26	54.77	20.51	AV
	<b>0.385</b>	<b>23.29</b>	<b>10.43</b>	<b>33.72</b>	<b>48.17</b>	<b>14.45</b>	
	0.634	16.72	10.39	27.11	46.00	18.89	
	1.129	13.71	10.40	24.11	46.00	21.89	
	7.329	13.57	10.53	24.10	50.00	25.90	
	17.755	19.93	10.69	30.62	50.00	19.38	

TEST ENGINEER: BYRON WU



EUT : LED LCD TV Temperature : 22°C

Model No. : 55R6D Humidity : 48%RH

Test Mode : HDMI1 1280\*1024@60Hz Date of Test : May 02, 2017  
 & 1kHz playing

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.197	38.14	10.53	48.67	63.76	15.09	QP
	0.385	32.24	10.44	42.68	58.17	15.49	
	0.634	27.62	10.40	38.02	56.00	17.98	
	0.899	28.46	10.40	38.86	56.00	17.14	
	1.388	25.87	10.41	36.28	56.00	19.72	
	17.568	24.72	10.58	35.30	60.00	24.70	
	0.197	27.14	10.53	37.67	53.76	16.09	AV
	<b>0.385</b>	<b>26.24</b>	<b>10.44</b>	<b>36.68</b>	<b>48.17</b>	<b>11.49</b>	
	0.634	19.62	10.40	30.02	46.00	15.98	
	0.899	19.46	10.40	29.86	46.00	16.14	
	1.388	16.87	10.41	27.28	46.00	18.72	
	17.568	19.72	10.58	30.30	50.00	19.70	
Neutral	0.172	36.85	10.55	47.40	64.86	17.46	QP
	0.385	32.12	10.43	42.55	58.17	15.62	
	0.641	31.67	10.39	42.06	56.00	13.94	
	0.890	28.43	10.40	38.83	56.00	17.17	
	2.422	25.52	10.44	35.96	56.00	20.04	
	17.568	24.34	10.69	35.03	60.00	24.97	
	0.172	23.85	10.55	34.40	54.86	20.46	AV
	0.385	25.12	10.43	35.55	48.17	12.62	
	0.641	21.67	10.39	32.06	46.00	13.94	
	0.890	18.43	10.40	28.83	46.00	17.17	
	2.422	13.52	10.44	23.96	46.00	22.04	
	17.568	19.34	10.69	30.03	50.00	19.97	

TEST ENGINEER: BYRON WU

EUT : LED LCD TV Temperature : 22°C

Model No. : 55R6D Humidity : 48%RH

Test Mode : HDMI1 640\*480@60Hz Date of Test : May 02, 2017  
& 1kHz playing

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.170	38.47	10.56	49.03	64.94	15.91	QP
	0.381	30.66	10.44	41.10	58.25	17.15	
	0.641	28.56	10.40	38.96	56.00	17.04	
	1.117	23.76	10.40	34.16	56.00	21.84	
	7.329	22.05	10.47	32.52	60.00	27.48	
	17.383	24.65	10.58	35.23	60.00	24.77	
	0.170	23.47	10.56	34.03	54.94	20.91	AV
	0.381	21.66	10.44	32.10	48.25	16.15	
	0.641	19.56	10.40	29.96	46.00	16.04	
	1.117	10.76	10.40	21.16	46.00	24.84	
	7.329	13.05	10.47	23.52	50.00	26.48	
	17.383	18.65	10.58	29.23	50.00	20.77	
Neutral	0.170	36.89	10.55	47.44	64.94	17.50	QP
	0.385	33.21	10.43	43.64	58.17	14.53	
	0.621	22.87	10.38	33.25	56.00	22.75	
	0.890	28.85	10.40	39.25	56.00	16.75	
	2.396	26.10	10.44	36.54	56.00	19.46	
	17.568	24.37	10.69	35.06	60.00	24.94	
	0.170	21.89	10.55	32.44	54.94	22.50	AV
	<b>0.385</b>	<b>28.21</b>	<b>10.43</b>	<b>38.64</b>	<b>48.17</b>	<b>9.53</b>	
	0.621	9.87	10.38	20.25	46.00	25.75	
	0.890	19.85	10.40	30.25	46.00	15.75	
	2.396	13.10	10.44	23.54	46.00	22.46	
	17.568	19.37	10.69	30.06	50.00	19.94	

TEST ENGINEER: BYRON WU

EUT : LED LCD TV Temperature : 22°C

Model No. : 55R6D Humidity : 48%RH

Test Mode : HDMI1080P Date of Test : May 02, 2017

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.169	38.64	10.56	49.20	64.99	15.79	QP
	0.385	31.15	10.44	41.59	58.17	16.58	
	0.641	28.44	10.40	38.84	56.00	17.16	
	1.129	26.65	10.40	37.05	56.00	18.95	
	7.329	20.68	10.47	31.15	60.00	28.85	
	17.755	25.07	10.58	35.65	60.00	24.35	
	0.169	22.64	10.56	33.20	54.99	21.79	AV
	0.385	25.15	10.44	35.59	48.17	12.58	
	0.641	18.44	10.40	28.84	46.00	17.16	
	1.129	15.65	10.40	26.05	46.00	19.95	
	7.329	12.68	10.47	23.15	50.00	26.85	
	17.755	19.07	10.58	29.65	50.00	20.35	
Neutral	0.178	35.87	10.55	46.42	64.59	18.17	QP
	0.385	34.66	10.43	45.09	58.17	13.08	
	0.641	31.97	10.39	42.36	56.00	13.64	
	0.899	28.35	10.40	38.75	56.00	17.25	
	2.396	25.25	10.44	35.69	56.00	20.31	
	17.849	24.30	10.69	34.99	60.00	25.01	
	0.178	24.87	10.55	35.42	54.59	19.17	AV
	<b>0.385</b>	<b>27.66</b>	<b>10.43</b>	<b>38.09</b>	<b>48.17</b>	<b>10.08</b>	
	0.641	22.97	10.39	33.36	46.00	12.64	
	0.899	15.35	10.40	25.75	46.00	20.25	
	2.396	12.25	10.44	22.69	46.00	23.31	
	17.849	19.30	10.69	29.99	50.00	20.01	

TEST ENGINEER: BYRON WU

EUT : LED LCD TV Temperature : 22°C

Model No. : 55R6D Humidity : 48%RH

Test Mode : USB Play Date of Test : May 02, 2017

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.200	38.13	10.53	48.66	63.62	14.96	QP
	0.381	30.84	10.44	41.28	58.25	16.97	
	0.647	28.13	10.40	38.53	56.00	17.47	
	1.129	25.71	10.40	36.11	56.00	19.89	
	7.329	19.29	10.47	29.76	60.00	30.24	
	17.383	24.22	10.58	34.80	60.00	25.20	
	0.200	26.13	10.53	36.66	53.62	16.96	AV
	0.381	22.84	10.44	33.28	48.25	14.97	
	<b>0.647</b>	<b>23.13</b>	<b>10.40</b>	<b>33.53</b>	<b>46.00</b>	<b>12.47</b>	
	1.129	16.71	10.40	27.11	46.00	18.89	
	7.329	12.29	10.47	22.76	50.00	27.24	
	17.383	18.22	10.58	28.80	50.00	21.20	
Neutral	0.170	36.15	10.55	46.70	64.94	18.24	QP
	0.389	31.63	10.43	42.06	58.08	16.02	
	0.627	31.03	10.38	41.41	56.00	14.59	
	0.880	28.88	10.40	39.28	56.00	16.72	
	2.448	25.32	10.44	35.76	56.00	20.24	
	17.755	25.08	10.69	35.77	60.00	24.23	
	0.170	21.15	10.55	31.70	54.94	23.24	AV
	0.389	22.63	10.43	33.06	48.08	15.02	
	0.627	22.03	10.38	32.41	46.00	13.59	
	0.880	17.88	10.40	28.28	46.00	17.72	
	2.448	14.32	10.44	24.76	46.00	21.24	
	17.755	19.08	10.69	29.77	50.00	20.23	

TEST ENGINEER: BYRON WU

EUT : LED LCD TV Temperature : 22°C

Model No. : 55R6D Humidity : 48%RH

Test Mode : LAN Play Date of Test : May 02, 2017

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.174	38.07	10.56	48.63	64.77	16.14	QP
	0.385	32.09	10.44	42.53	58.17	15.64	
	0.899	27.47	10.40	37.87	56.00	18.13	
	1.403	23.82	10.41	34.23	56.00	21.77	
	6.352	25.25	10.47	35.72	60.00	24.28	
	17.383	24.68	10.58	35.26	60.00	24.74	
	0.174	24.07	10.56	34.63	54.77	20.14	AV
	<b>0.385</b>	<b>26.09</b>	<b>10.44</b>	<b>36.53</b>	<b>48.17</b>	<b>11.64</b>	
	0.899	19.47	10.40	29.87	46.00	16.13	
	1.403	12.82	10.41	23.23	46.00	22.77	
	6.352	18.25	10.47	28.72	50.00	21.28	
	17.383	18.68	10.58	29.26	50.00	20.74	
Neutral	0.174	36.17	10.55	46.72	64.77	18.05	QP
	0.385	32.92	10.43	43.35	58.17	14.82	
	0.641	30.13	10.39	40.52	56.00	15.48	
	2.422	25.67	10.44	36.11	56.00	19.89	
	7.329	19.88	10.53	30.41	60.00	29.59	
	17.755	24.03	10.69	34.72	60.00	25.28	
	0.174	23.17	10.55	33.72	54.77	21.05	AV
	0.385	23.92	10.43	34.35	48.17	13.82	
	0.641	18.13	10.39	28.52	46.00	17.48	
	2.422	12.67	10.44	23.11	46.00	22.89	
	7.329	14.88	10.53	25.41	50.00	24.59	
	17.755	19.03	10.69	29.72	50.00	20.28	

TEST ENGINEER: BYRON WU

EUT : LED LCD TV Temperature : 22°C

Model No. : 55R6D Humidity : 48%RH

Test Mode : Wifi Date of Test : May 02, 2017

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.174	38.80	10.56	49.36	64.77	15.41	QP
	0.381	30.51	10.44	40.95	58.25	17.30	
	0.627	26.04	10.39	36.43	56.00	19.57	
	0.880	26.96	10.40	37.36	56.00	18.64	
	1.388	24.37	10.41	34.78	56.00	21.22	
	17.755	25.97	10.58	36.55	60.00	23.45	
	0.174	24.80	10.56	35.36	54.77	19.41	AV
	0.381	21.51	10.44	31.95	48.25	16.30	
	0.627	13.04	10.39	23.43	46.00	22.57	
	0.880	18.96	10.40	29.36	46.00	16.64	
	1.388	15.37	10.41	25.78	46.00	20.22	
	17.755	19.97	10.58	30.55	50.00	19.45	
Neutral	0.170	36.94	10.55	47.49	64.94	17.45	QP
	0.389	34.50	10.43	44.93	58.08	13.15	
	0.647	31.89	10.39	42.28	56.00	13.72	
	2.396	24.31	10.44	34.75	56.00	21.25	
	7.329	19.90	10.53	30.43	60.00	29.57	
	17.755	25.99	10.69	36.68	60.00	23.32	
	0.170	21.94	10.55	32.49	54.94	22.45	AV
	0.389	25.50	10.43	35.93	48.08	12.15	
	<b>0.647</b>	<b>24.89</b>	<b>10.39</b>	<b>35.28</b>	<b>46.00</b>	<b>10.72</b>	
	2.396	12.31	10.44	22.75	46.00	23.25	
	7.329	14.90	10.53	25.43	50.00	24.57	
	17.755	20.99	10.69	31.68	50.00	18.32	

TEST ENGINEER: BYRON WU

## 4 RADIATED EMISSION TEST

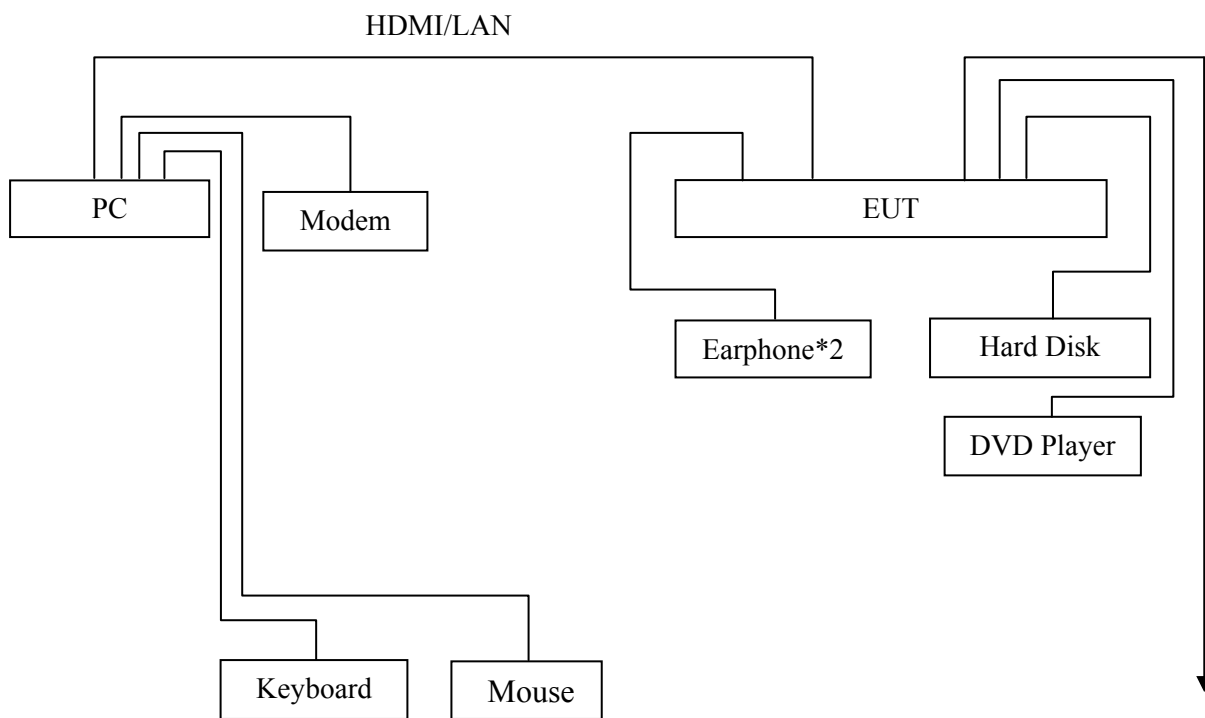
### 4.1 Test Equipment

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, 2017	May 06, 2018
2.	Preamplifier	Agilent	8447D	2944A06664	Apr 27, 2017	Apr 26, 2018
3.	Preamplifier	HP	8449B	3008A00864	Mar 20, 2017	Mar 19, 2018
4.	Bi-log Antenna	TESEQ	CBL6112D	23193	May 15, 2016	May 14, 2017
5.	Horn Antenna	EMCO	3115	9607-4878	Jun 03, 2016	Jun 02, 2017
6.	Spectrum	Agilent	E7405A	MY45106600	Apr 26, 2017	Apr 25, 2018
7.	Software	Audix	e3	6.2007-9-10	--	--

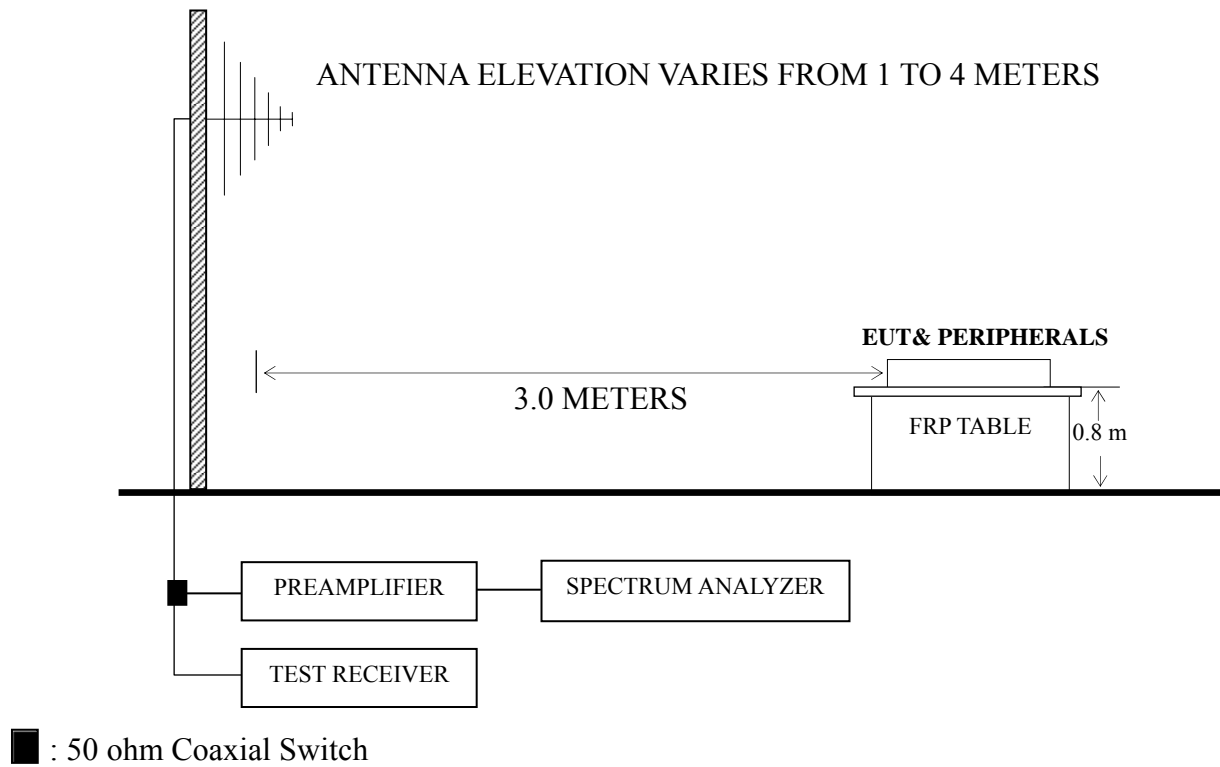
### 4.2 Block Diagram of Test Setup

#### 4.2.1 EUT & Peripherals



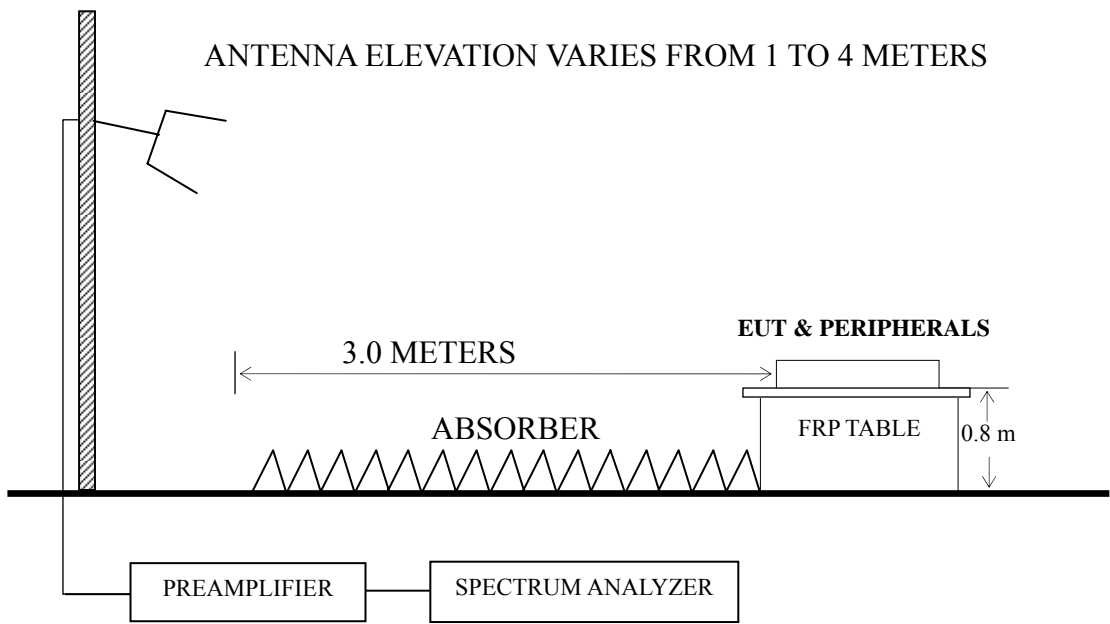
4.2.2 Radiated emission test setup

4.2.2.1 Below 1GHz



4.2.2.2 Above 1GHz

BORE-SIGHT ANTENNA TOWER





### 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 requirements during radiated emission test.

The I.F. bandwidth of Test Receiver R&S ESCI was set at 120 kHz and The Spectrum AgilentE7405A was set at 1MHz above 1GHz.

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

The frequency range from 1 GHz to 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	P27- P28
HDMI2 3840*2160@60Hz & 1kHz Playing	P29
HDMI3 3840*2160@30Hz & 1kHz Playing	P30
HDMI1 1920*1080@60Hz & 1kHz Playing	P31
HDMI1 1280*1024@60Hz & 1kHz playing	P32
HDMI1 640*480@60Hz & 1kHz playing	P33
HDMI 1080P	P34
USB Play	P35
LAN Play	P36
Wifi	P37

NOTE 1 – Emission Level = Antenna Factor + Cable Loss + 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 HDMI1 3840\*2160@60Hz & 1kHz Playing test mode. The worst emission at horizontal polarization was detected at 890.728 MHz with corrected signal level of 42.24dB (μV/m) (limit is 46.00 dB (μV/m)), when the antenna was 1.8 m height and the turntable was at 225°. The worst emission at vertical polarization was detected at 890.728 MHz with corrected signal level of 42.08dB (μV/m) (limit is 46.00 dB (μV/m)), when the antenna was 1.1m height and the turntable was at 60°.

EUT : LED LCD TV Temperature : 22°C

Model No. : 55R6D Humidity : 60%RH

Test Mode : HDMI1 3840\*2160@30Hz & 1kHz Playing Date of Test : May 14, 2017

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	61.995	27.14	6.73	0.79	0.00	34.66	40.00	5.34	QP
	76.770	25.83	8.52	0.87	0.00	35.22	40.00	4.78	
	159.225	19.34	11.35	1.32	0.00	32.01	43.50	11.49	
	297.224	18.60	13.60	1.75	0.00	33.95	46.00	12.05	
	420.580	21.71	16.32	2.09	0.00	40.12	46.00	5.88	
	<b>890.728</b>	<b>18.07</b>	<b>21.10</b>	<b>3.07</b>	<b>0.00</b>	<b>42.24</b>	<b>46.00</b>	<b>3.76</b>	PK
	1472.586	52.88	25.51	4.02	35.78	46.63	74.00	27.37	
	2047.672	44.77	27.59	4.72	35.20	41.88	74.00	32.12	
	2712.878	48.22	29.33	5.57	35.20	47.92	74.00	26.08	AV
	1472.586	35.37	25.51	4.02	35.78	29.12	54.00	24.88	
	2047.672	28.04	27.59	4.72	35.20	25.15	54.00	28.85	
	2712.878	32.49	29.33	5.57	35.20	32.19	54.00	21.81	

TEST ENGINEER: BYRON WU

EUT : LED LCD TV Temperature : 22°C

Model No. : 55R6D Humidity : 60%RH

Test Mode : HDMI1 3840\*2160@30Hz & 1kHz Playing Date of Test : May 14, 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
Vertical	31.620	16.03	17.27	0.58	0.00	33.88	40.00	6.12	QP
	62.610	26.44	6.76	0.79	0.00	33.99	40.00	6.01	
	73.876	26.16	8.13	0.86	0.00	35.15	40.00	4.85	
	153.739	20.64	11.65	1.30	0.00	33.59	43.50	9.91	
	420.580	20.31	16.32	2.09	0.00	38.72	46.00	7.28	
	<b>890.728</b>	<b>17.91</b>	<b>21.10</b>	<b>3.07</b>	<b>0.00</b>	<b>42.08</b>	<b>46.00</b>	<b>3.92</b>	
	1235.441	50.61	24.59	3.67	36.10	42.77	74.00	31.23	PK
	1596.237	47.14	26.02	4.20	35.62	41.74	74.00	32.26	
	2223.594	45.71	27.92	4.97	35.20	43.40	74.00	30.60	
	1235.441	33.23	24.59	3.67	36.10	25.39	54.00	28.61	AV
	1596.237	31.47	26.02	4.20	35.62	26.07	54.00	27.93	
	2223.594	28.67	27.92	4.97	35.20	26.36	54.00	27.64	

TEST ENGINEER: BYRON WU

EUT : LED LCD TV Temperature : 22°C

Model No. : 55R6D Humidity : 60%RH

Test Mode : HDMI2 3840\*2160@30Hz & 1kHz Playing Date of Test : May 14, 2017

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	64.887	26.19	6.90	0.80	33.89	40.00	6.11
	76.750	25.53	8.52	0.87	34.92	40.00	5.08
	153.200	20.18	11.73	1.29	33.20	43.50	10.30
	216.024	19.81	10.92	1.53	32.26	46.00	13.74
	420.580	20.67	16.32	2.09	39.08	46.00	6.92
	890.728	17.16	21.10	3.07	41.33	46.00	4.67
Vertical	31.289	15.62	17.53	0.57	33.72	40.00	6.28
	61.995	25.88	6.73	0.79	33.40	40.00	6.60
	76.850	23.63	8.52	0.87	33.02	40.00	6.98
	153.739	20.24	11.65	1.30	33.19	43.50	10.31
	417.641	21.23	16.28	2.09	39.60	46.00	6.40
	<b>890.728</b>	<b>17.73</b>	<b>21.10</b>	<b>3.07</b>	<b>41.90</b>	<b>46.00</b>	<b>4.10</b>

TEST ENGINEER: BYRON WU

EUT : LED LCD TV Temperature : 22°C

Model No. : 55R6D Humidity : 60%RH

Test Mode : HDMI3 3840\*2160@30Hz & 1kHz Playing Date of Test : May 14, 2017

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	64.887	26.09	6.90	0.80	33.79	40.00	6.21
	76.690	24.90	8.49	0.87	34.26	40.00	5.74
	125.886	19.30	12.37	1.16	32.83	43.50	10.67
	222.950	20.39	11.20	1.55	33.14	46.00	12.86
	431.032	20.80	16.44	2.12	39.36	46.00	6.64
	890.728	17.49	21.10	3.07	41.66	46.00	4.34
Vertical	30.962	15.51	17.71	0.57	33.79	40.00	6.21
	63.092	27.59	6.79	0.79	35.17	40.00	4.83
	73.360	25.44	8.02	0.86	34.32	40.00	5.68
	270.375	18.52	13.28	1.69	33.49	46.00	12.51
	432.546	17.84	16.44	2.12	36.40	46.00	9.60
	<b>890.728</b>	<b>17.86</b>	<b>21.10</b>	<b>3.07</b>	<b>42.03</b>	<b>46.00</b>	<b>3.97</b>

TEST ENGINEER: BYRON WU

EUT : LED LCD TV Temperature : 22°C

Model No. : 55R6D Humidity : 60%RH

Test Mode : HDMI1 1920\*1080@60Hz Date of Test : May 14, 2017  
& 1kHz Playing

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	61.995	27.07	6.73	0.79	34.59	40.00	5.41
	76.690	24.10	8.49	0.87	33.46	40.00	6.54
	148.963	19.25	12.16	1.28	32.69	43.50	10.81
	215.268	20.79	10.90	1.53	33.22	43.50	10.28
	432.546	18.26	16.44	2.12	36.82	46.00	9.18
	742.259	19.46	19.57	2.79	41.82	46.00	4.18
Vertical	30.962	16.18	17.71	0.57	34.46	40.00	5.54
	63.983	27.22	6.84	0.80	34.86	40.00	5.14
	76.750	23.83	8.52	0.87	33.22	40.00	6.78
	148.963	21.40	12.16	1.28	34.84	43.50	8.66
	429.523	19.05	16.40	2.12	37.57	46.00	8.43
	<b>742.259</b>	<b>19.63</b>	<b>19.57</b>	<b>2.79</b>	<b>41.99</b>	<b>46.00</b>	<b>4.01</b>

TEST ENGINEER: BYRON WU

EUT : LED LCD TV Temperature : 22°C

Model No. : 55R6D Humidity : 60%RH

Test Mode : HDMI1 1280\*1024@60Hz Date of Test : May 14, 2017  
& 1kHz Playing

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	64.887	26.56	6.90	0.80	34.26	40.00	5.74
	77.051	24.61	8.56	0.87	34.04	40.00	5.96
	122.834	18.18	12.22	1.14	31.54	43.50	11.96
	143.830	17.77	12.75	1.25	31.77	43.50	11.73
	216.024	20.26	10.92	1.53	32.71	46.00	13.29
	434.065	18.47	16.48	2.12	37.07	46.00	8.93
Vertical	30.962	15.58	17.71	0.57	33.86	40.00	6.14
	62.000	25.45	6.73	0.79	32.97	40.00	7.03
	<b>73.876</b>	<b>26.03</b>	<b>8.13</b>	<b>0.86</b>	<b>35.02</b>	<b>40.00</b>	<b>4.98</b>
	122.834	18.95	12.22	1.14	32.31	43.50	11.19
	153.739	19.40	11.65	1.30	32.35	43.50	11.15
	432.546	18.43	16.44	2.12	36.99	46.00	9.01

TEST ENGINEER: BYRON WU



EUT : LED LCD TV Temperature : 22°C

Model No. : 55R6D Humidity : 60%RH

Test Mode : HDMI1 640\*480@60Hz & 1kHz Playing Date of Test : May 14, 2017

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	77.051	23.59	8.56	0.87	33.02	40.00	6.98
	153.200	19.44	11.73	1.29	32.46	43.50	11.04
	218.309	20.91	10.98	1.54	33.43	46.00	12.57
	261.058	18.43	13.34	1.66	33.43	46.00	12.57
	435.590	19.05	16.52	2.13	37.70	46.00	8.30
	515.437	16.70	17.55	2.30	36.55	46.00	9.45
Vertical	30.962	15.49	17.71	0.57	33.77	40.00	6.23
	<b>77.051</b>	<b>24.63</b>	<b>8.56</b>	<b>0.87</b>	<b>34.06</b>	<b>40.00</b>	<b>5.94</b>
	153.739	23.21	11.65	1.30	36.16	43.50	7.34
	269.428	18.11	13.30	1.68	33.09	46.00	12.91
	435.590	18.33	16.52	2.13	36.98	46.00	9.02
	597.223	14.05	18.33	2.50	34.88	46.00	11.12

TEST ENGINEER: BYRON WU

EUT : LED LCD TV Temperature : 22°C

Model No. : 55R6D Humidity : 60%RH

Test Mode : HDMI 1080P Date of Test : May 14, 2017

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	60.492	25.87	6.63	0.77	33.27	40.00	6.73
	74.657	25.12	8.24	0.86	34.22	40.00	5.78
	153.739	22.52	11.65	1.30	35.47	43.50	8.03
	287.990	21.56	13.48	1.73	36.77	46.00	9.23
	435.590	18.92	16.52	2.13	37.57	46.00	8.43
	796.183	14.37	20.37	2.89	37.63	46.00	8.37
Vertical	32.979	15.37	16.67	0.59	32.63	40.00	7.37
	<b>65.343</b>	<b>27.30</b>	<b>6.93</b>	<b>0.81</b>	<b>35.04</b>	<b>40.00</b>	<b>4.96</b>
	75.446	24.97	8.38	0.87	34.22	40.00	5.78
	163.182	22.16	11.19	1.34	34.69	43.50	8.81
	275.157	20.69	13.20	1.70	35.59	46.00	10.41
	616.372	13.46	18.75	2.54	34.75	46.00	11.25

TEST ENGINEER: BYRON WU

EUT : LED LCD TV Temperature : 22°C

Model No. : 55R6D Humidity : 60%RH

Test Mode : USB Play Date of Test : May 14, 2017

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	<b>74.657</b>	<b>25.69</b>	<b>8.24</b>	<b>0.86</b>	<b>34.79</b>	<b>40.00</b>	<b>5.21</b>
	94.428	21.16	11.53	0.97	33.66	43.50	9.84
	162.611	21.25	11.21	1.34	33.80	43.50	9.70
	308.913	18.19	13.86	1.79	33.84	46.00	12.16
	454.310	15.87	16.84	2.16	34.87	46.00	11.13
	896.997	13.64	21.17	3.07	37.88	46.00	8.12
Vertical	31.399	15.59	17.45	0.57	33.61	40.00	6.39
	62.213	26.65	6.74	0.79	34.18	40.00	5.82
	74.657	25.39	8.24	0.86	34.49	40.00	5.51
	152.130	21.88	11.80	1.29	34.97	43.50	8.53
	318.817	19.16	14.08	1.82	35.06	46.00	10.94
	658.836	13.17	19.20	2.63	35.00	46.00	11.00

TEST ENGINEER: BYRON WU

EUT : LED LCD TV Temperature : 22°C

Model No. : 55R6D Humidity : 60%RH

Test Mode : LAN Play Date of Test : May 14, 2017

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	63.759	25.14	6.84	0.80	32.78	40.00	7.22
	74.919	25.60	8.30	0.86	34.76	40.00	5.24
	127.665	18.97	12.63	1.17	32.77	43.50	10.73
	199.286	21.99	10.07	1.48	33.54	43.50	9.96
	601.427	14.37	18.45	2.52	35.34	46.00	10.66
	818.834	14.20	20.30	2.94	37.44	46.00	8.56
Vertical	30.638	15.00	17.97	0.57	33.54	40.00	6.46
	<b>62.213</b>	<b>27.55</b>	<b>6.74</b>	<b>0.79</b>	<b>35.08</b>	<b>40.00</b>	<b>4.92</b>
	75.977	25.65	8.41	0.87	34.93	40.00	5.07
	117.773	20.36	12.22	1.11	33.69	43.50	9.81
	301.422	20.68	13.64	1.76	36.08	46.00	9.92
	556.774	14.87	18.05	2.40	35.32	46.00	10.68

TEST ENGINEER: BYRON WU

EUT : LED LCD TV Temperature : 22°C

Model No. : 55R6D Humidity : 60%RH

Test Mode : Wifi Date of Test : May 14, 2017

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	60.492	25.30	6.63	0.77	32.70	40.00	7.30
	74.135	24.98	8.13	0.86	33.97	40.00	6.03
	132.221	19.64	12.86	1.19	33.69	43.50	9.81
	216.024	22.56	10.92	1.53	35.01	46.00	10.99
	423.540	17.37	16.33	2.10	35.80	46.00	10.20
	694.417	12.18	19.23	2.71	34.12	46.00	11.88
Vertical	30.531	15.20	18.05	0.56	33.81	40.00	6.19
	<b>62.213</b>	<b>26.91</b>	<b>6.74</b>	<b>0.79</b>	<b>34.44</b>	<b>40.00</b>	<b>5.56</b>
	74.657	25.13	8.24	0.86	34.23	40.00	5.77
	164.908	22.74	11.10	1.35	35.19	43.50	8.31
	292.058	20.20	13.55	1.74	35.49	46.00	10.51
	651.942	14.99	19.27	2.61	36.87	46.00	9.13

TEST ENGINEER: BYRON WU

## **5 DEVIATION TO TEST SPECIFICATIONS**

None

