

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

LED LCD TV

Model No.:

Model No.	Brand
55P62, LC55P6000U	Sharp

FCC ID : W9HLCDF0129

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

Prepared By : Audix Technology (Shanghai) Co., Ltd.  
3F and 4F, 34Bldg 680 Guiping Rd,  
Caohejing Hi-Tech Park,  
Shanghai 200233, China

Tel: +86-21-64955500  
Fax: +86-21-64955491

Report No. : ACI-F17214  
Date of Test : Jun 06-14, 2017  
Date of Report : Jun 23, 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 : Sharp  
                   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 Jun 06-14, 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.F17213, a Verification report.***

Date of Test : Jun 06-14, 2017                      Date of Report : Jun 23, 2017

Producer : Huimin Yan  
                   HUIMIN YAN / Assistant

Review : Byron WJ  
 For and on behalf of BYRON WJ Deputy Assistant Manager  
 Audix Technology (Shanghai) Co., Ltd.

Signatory : Wenjun for  
 Authorized Signature(s) BYRON KWONG / 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
		Minimum passing margin is 11.01dB at 0.641MHz	
Radiated Disturbance	FCC RULES AND REGULATIONS PART 15 SUBPART B AND ANSI C63.4-2014	15.109(a) Class B	Pass
		Minimum passing margin is 3.49dB at 900.147MHz (Horizontal, 1.8m/100°)	

## 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	:	55P62, LC-55P6000U
Note #1	:	The above models are all the same except for model number. 55P62 model is tested and recorded in the report.
Note #2	:	The tuner port comply with the 15.111 requirement.
Brand	:	Sharp
RF module FCC ID	:	2AJVQ-ZDGFMT7612U
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 : HD550K3U82-L2K1B1
Tuner	:	Manufacturer : SILICON LABS M/N : Si2151-A10
Max Resolution	:	3840*2160@60Hz
HDMI Cable*3 (Lab provide)	:	Shielded, Detachable, 1.80m
Power Cord	:	Unshielded, Detachable, 1.80m, 2C
LAN Cable	:	Unshielded, Detachable, 1.50m
USB Cable	:	Shielded, Detachable, 1.00m

(Lab provide)

**Remark:**

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

Side View:

- (1) One ANT Port : Connected with Antenna or ATSC SG/TV SG
- (2) One HDMI1 Port : Connected with DVD Player
- (3) One HDMI2 Port : Connected with
- (4) One HDMI3 Port : Connected with PC
- (5) One AUDIO OUT Port : Connected with Earphone
- (6) One USB Ports : Connected with Hard-Disk
- (7) One Service Port : Do not open to customer
- (8) One DIGITALAUDIO OUT Port : Connected with Audio Converter to Earphone

Back View:

- (9) One AV IN Port : Connected with DVD Player
- (10)One LAN IN 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 : 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\*2

Manufacturer : EDIFIER  
Model Number : H210

## 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

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

## 2.2.9 Hard Disk

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

### 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

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 = 4.3dB (Horizontal)  
U = 5.5dB (Vertical)

Radiated Emission Expanded Uncertainty (1GHz-6GHz):  
U = 5.1 dB



### 3 CONDUCTED EMISSION TEST

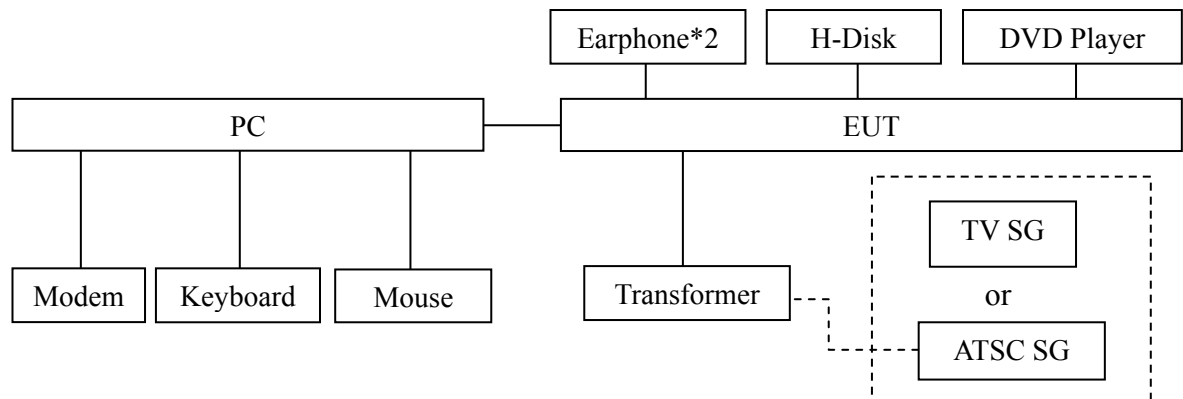
#### 3.1 Test Equipment

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

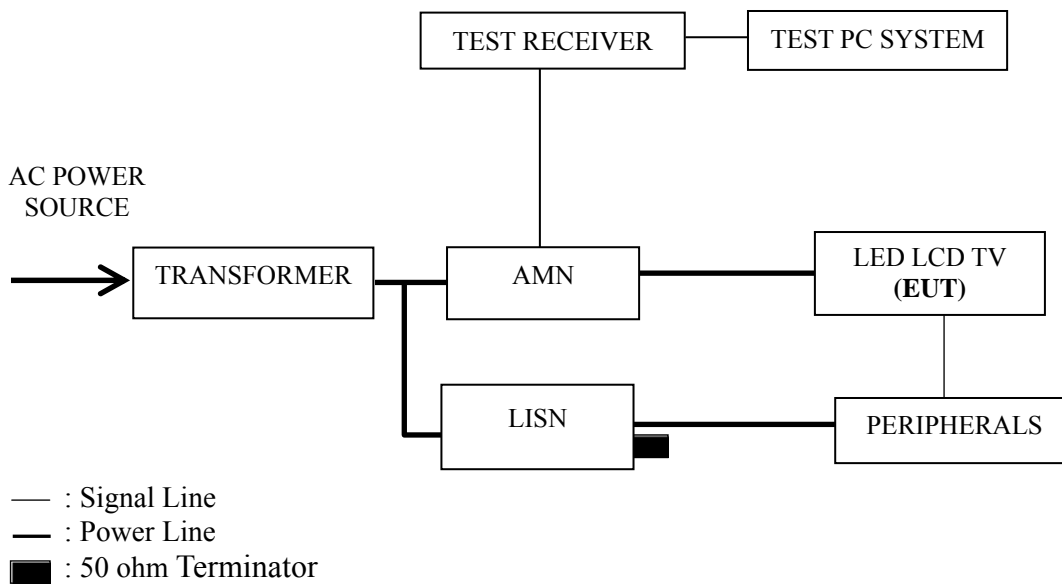
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Test Receiver	R&S	ESCI	101302	Apr 27, 2017	Apr 26, 2018
2.	Artificial Mains Network (AMN)	R&S	ENV4200	100125	Jun 25, 2016	Jun 24, 2017
3.	Line Impedance Stabilization Network (LISN)	Kyoritsu	KNW-407	8-1280-4	Mar 17, 2017	Mar 16, 2018
4.	50Ω Terminator	Anritsu	BNC	001	Mar 20, 2017	Sep 19, 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



### 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
HDMI1 1920*1080@60Hz & 1kHz playing
HDMI1 1280*1024@60Hz & 1kHz playing
HDMI1 640*480@60Hz & 1kHz playing
HDMI2 3840*2160@60Hz & 1kHz playing
HDMI3 3840*2160@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 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
HDMI1 1920*1080@60Hz & 1kHz playing	P14
HDMI1 1280*1024@60Hz & 1kHz playing	P15
HDMI1 640*480@60Hz & 1kHz playing	P16
HDMI2 3840*2160@60Hz & 1kHz playing	P17
HDMI3 3840*2160@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.

EUT : LED LCD TV Temperature : 22°C

Model No. : 55P62 Humidity : 48%RH

Test Mode : HDMI1 Date of Test : Jun 06, 2017  
3840\*2160@60Hz &  
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	32.55	10.54	43.09	63.76	20.67	QP	
	0.381	28.64	10.44	39.08	58.25	19.17		
	0.627	24.15	10.40	34.55	56.00	21.45		
	1.367	23.97	10.42	34.39	56.00	21.61		
	3.509	20.29	10.43	30.72	56.00	25.28		
	18.820	27.00	10.60	37.60	60.00	22.40		
	Line	0.197	19.55	10.54	30.09	53.76	23.67	AV
		0.381	19.64	10.44	30.08	48.25	18.17	
		0.627	12.15	10.40	22.55	46.00	23.45	
		1.367	12.97	10.42	23.39	46.00	22.61	
3.509		11.29	10.43	21.72	46.00	24.28		
18.820		20.00	10.60	30.60	50.00	19.40		
Neutral	0.161	33.85	10.56	44.41	65.43	21.02	QP	
	0.385	33.45	10.43	43.88	58.17	14.29		
	0.641	31.32	10.39	41.71	56.00	14.29		
	0.899	27.76	10.41	38.17	56.00	17.83		
	2.678	22.86	10.46	33.32	56.00	22.68		
	18.426	25.56	10.70	36.26	60.00	23.74		
	Neutral	0.161	22.85	10.56	33.41	55.43	22.02	AV
		<b>0.385</b>	<b>24.45</b>	<b>10.43</b>	<b>34.88</b>	<b>48.17</b>	<b>13.29</b>	
		0.641	19.32	10.39	29.71	46.00	16.29	
		0.899	16.76	10.41	27.17	46.00	18.83	
		2.678	13.86	10.46	24.32	46.00	21.68	
		18.426	20.56	10.70	31.26	50.00	18.74	

TEST ENGINEER: BYRON WU

EUT : LED LCD TV Temperature : 22°C

Model No. : 55P62 Humidity : 48%RH

Test Mode : HDMI1 Date of Test : Jun 06, 2017  
1920\*1080@60Hz &  
1kHz Playing

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.153	33.29	10.58	43.87	65.82	21.95	QP
	0.385	28.32	10.44	38.76	58.17	19.41	
	0.641	24.78	10.40	35.18	56.00	20.82	
	1.141	23.92	10.41	34.33	56.00	21.67	
	1.645	20.59	10.41	31.00	56.00	25.00	
	18.426	27.91	10.59	38.50	60.00	21.50	
	AV	0.153	21.29	10.58	31.87	55.82	23.95
		0.385	19.32	10.44	29.76	48.17	18.41
		0.641	12.78	10.40	23.18	46.00	22.82
		1.141	12.92	10.41	23.33	46.00	22.67
		1.645	12.59	10.41	23.00	46.00	23.00
		18.426	18.91	10.59	29.50	50.00	20.50
Neutral	0.164	32.84	10.57	43.41	65.25	21.84	QP
	0.381	28.72	10.43	39.15	58.25	19.10	
	0.634	25.68	10.39	36.07	56.00	19.93	
	0.880	24.41	10.41	34.82	56.00	21.18	
	2.678	21.39	10.46	31.85	56.00	24.15	
	18.820	26.97	10.70	37.67	60.00	22.33	
	AV	0.164	19.84	10.57	30.41	55.25	24.84
		<b>0.381</b>	<b>19.72</b>	<b>10.43</b>	<b>30.15</b>	<b>48.25</b>	<b>18.10</b>
		0.634	14.68	10.39	25.07	46.00	20.93
		0.880	13.41	10.41	23.82	46.00	22.18
		2.678	12.39	10.46	22.85	46.00	23.15
		18.820	19.97	10.70	30.67	50.00	19.33

TEST ENGINEER: BYRON WU

EUT : LED LCD TV Temperature : 22°C

Model No. : 55P62 Humidity : 48%RH

Test Mode : HDMI1 Date of Test : Jun 06, 2017  
1280\*1024@60Hz &  
1kHz Playing

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.159	32.68	10.58	43.26	65.52	22.26	QP
	0.332	27.59	10.46	38.05	59.40	21.35	
	0.627	24.34	10.40	34.74	56.00	21.26	
	1.403	23.63	10.42	34.05	56.00	21.95	
	1.970	20.49	10.42	30.91	56.00	25.09	
	18.039	28.69	10.59	39.28	60.00	20.72	
	AV	0.159	21.68	10.58	32.26	55.52	23.26
		0.332	18.59	10.46	29.05	49.40	20.35
		0.627	13.34	10.40	23.74	46.00	22.26
		1.403	12.63	10.42	23.05	46.00	22.95
		1.970	11.49	10.42	21.91	46.00	24.09
		18.039	21.69	10.59	32.28	50.00	17.72
Neutral	0.153	31.76	10.57	42.33	65.82	23.49	QP
	0.381	32.93	10.43	43.36	58.25	14.89	
	0.634	30.46	10.39	40.85	56.00	15.15	
	0.890	27.43	10.41	37.84	56.00	18.16	
	3.207	22.32	10.47	32.79	56.00	23.21	
	18.820	25.91	10.70	36.61	60.00	23.39	
	AV	0.153	24.76	10.57	35.33	55.82	20.49
		<b>0.381</b>	<b>23.93</b>	<b>10.43</b>	<b>34.36</b>	<b>48.25</b>	<b>13.89</b>
		0.634	19.46	10.39	29.85	46.00	16.15
		0.890	16.43	10.41	26.84	46.00	19.16
		3.207	13.32	10.47	23.79	46.00	22.21
		18.820	20.91	10.70	31.61	50.00	18.39

TEST ENGINEER: BYRON WU

EUT : LED LCD TV Temperature : 22°C

Model No. : 55P62 Humidity : 48%RH

Test Mode : HDMI1 640\*480@60Hz Date of Test : Jun 06, 2017  
& 1kHz Playing

Test Line	Frequency (MHz)	Meter Reading dB( $\mu$ V)	Factor (dB)	Emission Level dB( $\mu$ V)	Limits dB( $\mu$ V)	Margin (dB)	Remark	
Line	0.156	34.03	10.58	44.61	65.65	21.04	QP	
	0.385	27.74	10.44	38.18	58.17	19.99		
	0.641	25.63	10.40	36.03	56.00	19.97		
	0.963	24.91	10.41	35.32	56.00	20.68		
	1.662	20.67	10.41	31.08	56.00	24.92		
	18.426	26.21	10.59	36.80	60.00	23.20		
	Line	0.156	20.03	10.58	30.61	55.65	25.04	AV
		0.385	18.74	10.44	29.18	48.17	18.99	
		0.641	13.63	10.40	24.03	46.00	21.97	
		0.963	13.91	10.41	24.32	46.00	21.68	
		1.662	12.67	10.41	23.08	46.00	22.92	
		18.426	21.21	10.59	31.80	50.00	18.20	
Neutral	0.164	31.94	10.57	42.51	65.25	22.74	QP	
	0.385	33.79	10.43	44.22	58.17	13.95		
	0.634	31.55	10.39	41.94	56.00	14.06		
	0.890	27.08	10.41	37.49	56.00	18.51		
	2.650	22.79	10.46	33.25	56.00	22.75		
	18.622	25.95	10.70	36.65	60.00	23.35		
	Neutral	0.164	20.94	10.57	31.51	55.25	23.74	AV
		<b>0.385</b>	<b>24.79</b>	<b>10.43</b>	<b>35.22</b>	<b>48.17</b>	<b>12.95</b>	
		0.634	19.55	10.39	29.94	46.00	16.06	
		0.890	16.08	10.41	26.49	46.00	19.51	
		2.650	13.79	10.46	24.25	46.00	21.75	
		18.622	19.95	10.70	30.65	50.00	19.35	

TEST ENGINEER: BYRON WU



EUT : LED LCD TV Temperature : 22°C

Model No. : 55P62 Humidity : 48%RH

Test Mode : HDMI2 Date of Test : Jun 06, 2017  
3840\*2160@60Hz &  
1kHz Playing

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.152	35.53	10.59	46.12	65.91	19.79	QP
	0.385	28.20	10.44	38.64	58.17	19.53	
	0.634	25.38	10.40	35.78	56.00	20.22	
	1.129	23.59	10.41	34.00	56.00	22.00	
	3.399	20.73	10.43	31.16	56.00	24.84	
	18.426	27.27	10.59	37.86	60.00	22.14	
	0.152	25.53	10.59	36.12	55.91	19.79	AV
	0.385	18.20	10.44	28.64	48.17	19.53	
	0.634	13.38	10.40	23.78	46.00	22.22	
	1.129	12.59	10.41	23.00	46.00	23.00	
	3.399	11.73	10.43	22.16	46.00	23.84	
	18.426	20.27	10.59	30.86	50.00	19.14	
Neutral	0.155	33.38	10.57	43.95	65.74	21.79	QP
	0.385	32.37	10.43	42.80	58.17	15.37	
	<b>0.641</b>	<b>31.09</b>	<b>10.39</b>	<b>41.48</b>	<b>56.00</b>	<b>14.52</b>	
	0.880	27.81	10.41	38.22	56.00	17.78	
	2.678	22.10	10.46	32.56	56.00	23.44	
	18.622	26.54	10.70	37.24	60.00	22.76	
	0.155	22.38	10.57	32.95	55.74	22.79	AV
	0.385	21.37	10.43	31.80	48.17	16.37	
	0.641	20.09	10.39	30.48	46.00	15.52	
	0.880	16.81	10.41	27.22	46.00	18.78	
	2.678	14.10	10.46	24.56	46.00	21.44	
	18.622	20.54	10.70	31.24	50.00	18.76	

TEST ENGINEER: BYRON WU

EUT : LED LCD TV Temperature : 22°C

Model No. : 55P62 Humidity : 48%RH

Test Mode : HDMI3 Date of Test : Jun 06, 2017  
3840\*2160@60Hz &  
1kHz Playing

Test Line	Frequency (MHz)	Meter Reading dB( $\mu$ V)	Factor (dB)	Emission Level dB( $\mu$ V)	Limits dB( $\mu$ V)	Margin (dB)	Remark	
Line	0.155	35.79	10.58	46.37	65.74	19.37	QP	
	0.381	27.89	10.44	38.33	58.25	19.92		
	0.641	25.02	10.40	35.42	56.00	20.58		
	1.141	23.11	10.41	33.52	56.00	22.48		
	2.650	20.50	10.43	30.93	56.00	25.07		
	18.820	27.61	10.60	38.21	60.00	21.79		
	0.155	22.79	10.58	33.37	55.74	22.37	AV	
	0.381	18.89	10.44	29.33	48.25	18.92		
	0.641	14.02	10.40	24.42	46.00	21.58		
	1.141	14.11	10.41	24.52	46.00	21.48		
	2.650	11.50	10.43	21.93	46.00	24.07		
	18.820	19.61	10.60	30.21	50.00	19.79		
	Neutral	0.153	35.04	10.57	45.61	65.82	20.21	QP
		0.385	31.76	10.43	42.19	58.17	15.98	
<b>0.634</b>		<b>31.15</b>	<b>10.39</b>	<b>41.54</b>	<b>56.00</b>	<b>14.46</b>		
0.880		27.36	10.41	37.77	56.00	18.23		
2.422		23.50	10.45	33.95	56.00	22.05		
19.021		25.46	10.71	36.17	60.00	23.83		
0.153		23.04	10.57	33.61	55.82	22.21	AV	
0.385		22.76	10.43	33.19	48.17	14.98		
0.634		19.15	10.39	29.54	46.00	16.46		
0.880		16.36	10.41	26.77	46.00	19.23		
2.422		15.50	10.45	25.95	46.00	20.05		
19.021		20.46	10.71	31.17	50.00	18.83		

TEST ENGINEER: BYRON WU

EUT : LED LCD TV Temperature : 22°C  
 Model No. : 55P62 Humidity : 48%RH  
 Test Mode : HDMI 1080P Date of Test : Jun 06, 2017

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark	
Line	0.161	34.20	10.57	44.77	65.43	20.66	QP	
	0.385	28.79	10.44	39.23	58.17	18.94		
	0.641	24.28	10.40	34.68	56.00	21.32		
	0.899	24.78	10.41	35.19	56.00	20.81		
	1.662	21.29	10.41	31.70	56.00	24.30		
	18.820	26.61	10.60	37.21	60.00	22.79		
	Line	0.161	19.20	10.57	29.77	55.43	25.66	AV
		0.385	19.79	10.44	30.23	48.17	17.94	
		0.641	15.28	10.40	25.68	46.00	20.32	
		0.899	13.78	10.41	24.19	46.00	21.81	
		1.662	12.29	10.41	22.70	46.00	23.30	
		18.820	19.61	10.60	30.21	50.00	19.79	
Neutral	0.381	33.28	10.43	43.71	58.25	14.54	QP	
	0.641	33.60	10.39	43.99	56.00	12.01		
	0.909	31.47	10.41	41.88	56.00	14.12		
	2.178	27.17	10.44	37.61	56.00	18.39		
	4.224	22.01	10.49	32.50	56.00	23.50		
	18.622	25.86	10.70	36.56	60.00	23.44		
	Neutral	0.381	21.28	10.43	31.71	48.25	16.54	AV
		<b>0.641</b>	<b>24.60</b>	<b>10.39</b>	<b>34.99</b>	<b>46.00</b>	<b>11.01</b>	
		0.909	19.47	10.41	29.88	46.00	16.12	
		2.178	16.17	10.44	26.61	46.00	19.39	
		4.224	13.01	10.49	23.50	46.00	22.50	
		18.622	20.86	10.70	31.56	50.00	18.44	

TEST ENGINEER: BYRON WU

EUT : LED LCD TV Temperature : 22°C  
 Model No. : 55P62 Humidity : 48%RH  
 Test Mode : USB Play Date of Test : Jun 06, 2017

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.153	35.83	10.58	46.41	65.82	19.41	QP
	0.381	28.08	10.44	38.52	58.25	19.73	
	0.641	24.99	10.40	35.39	56.00	20.61	
	0.963	23.39	10.41	33.80	56.00	22.20	
	1.645	21.00	10.41	31.41	56.00	24.59	
	18.820	26.81	10.60	37.41	60.00	22.59	
	AV	0.153	21.83	10.58	32.41	55.82	23.41
		0.381	19.08	10.44	29.52	48.25	18.73
		0.641	12.99	10.40	23.39	46.00	22.61
		0.963	12.39	10.41	22.80	46.00	23.20
		1.645	12.00	10.41	22.41	46.00	23.59
		18.820	20.81	10.60	31.41	50.00	18.59
Neutral	0.153	33.70	10.57	44.27	65.82	21.55	QP
	0.385	33.58	10.43	44.01	58.17	14.16	
	0.634	31.40	10.39	41.79	56.00	14.21	
	0.890	26.49	10.41	36.90	56.00	19.10	
	2.962	22.23	10.47	32.70	56.00	23.30	
	19.326	25.30	10.72	36.02	60.00	23.98	
	AV	0.153	22.70	10.57	33.27	55.82	22.55
		<b>0.385</b>	<b>25.58</b>	<b>10.43</b>	<b>36.01</b>	<b>48.17</b>	<b>12.16</b>
		0.634	18.40	10.39	28.79	46.00	17.21
		0.890	17.49	10.41	27.90	46.00	18.10
		2.962	14.23	10.47	24.70	46.00	21.30
		19.326	20.30	10.72	31.02	50.00	18.98

TEST ENGINEER: BYRON WU

EUT : LED LCD TV Temperature : 22°C  
 Model No. : 55P62 Humidity : 48%RH  
 Test Mode : LAN Play Date of Test : Jun 06, 2017

Test Line	Frequency (MHz)	Meter Reading dB( $\mu$ V)	Factor (dB)	Emission Level dB( $\mu$ V)	Limits dB( $\mu$ V)	Margin (dB)	Remark
Line	0.156	34.45	10.58	45.03	65.65	20.62	QP
	0.385	27.32	10.44	37.76	58.17	20.41	
	0.634	24.23	10.40	34.63	56.00	21.37	
	0.963	23.87	10.41	34.28	56.00	21.72	
	1.388	20.57	10.42	30.99	56.00	25.01	
	18.622	27.52	10.60	38.12	60.00	21.88	
	0.156	22.45	10.58	33.03	55.65	22.62	AV
	0.385	20.32	10.44	30.76	48.17	17.41	
	0.634	13.23	10.40	23.63	46.00	22.37	
	0.963	14.87	10.41	25.28	46.00	20.72	
	1.388	12.57	10.42	22.99	46.00	23.01	
	18.622	21.52	10.60	32.12	50.00	17.88	
Neutral	0.157	33.43	10.57	44.00	65.60	21.60	QP
	0.381	33.29	10.43	43.72	58.25	14.53	
	0.641	31.01	10.39	41.40	56.00	14.60	
	0.890	27.84	10.41	38.25	56.00	17.75	
	2.650	22.17	10.46	32.63	56.00	23.37	
	19.021	25.00	10.71	35.71	60.00	24.29	
	0.157	22.43	10.57	33.00	55.60	22.60	AV
	<b>0.381</b>	<b>24.29</b>	<b>10.43</b>	<b>34.72</b>	<b>48.25</b>	<b>13.53</b>	
	0.641	19.01	10.39	29.40	46.00	16.60	
	0.890	16.84	10.41	27.25	46.00	18.75	
	2.650	13.17	10.46	23.63	46.00	22.37	
	19.021	21.00	10.71	31.71	50.00	18.29	

TEST ENGINEER: BYRON WU

EUT : LED LCD TV Temperature : 22°C

Model No. : 55P62 Humidity : 48%RH

Test Mode : WIFI Date of Test : Jun 06, 2017

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.197	32.57	10.54	43.11	63.76	20.65	QP
	0.381	27.71	10.44	38.15	58.25	20.10	
	0.647	24.75	10.40	35.15	56.00	20.85	
	0.963	23.24	10.41	33.65	56.00	22.35	
	3.681	20.75	10.44	31.19	56.00	24.81	
	19.326	27.35	10.61	37.96	60.00	22.04	
	0.197	18.57	10.54	29.11	53.76	24.65	AV
	0.381	18.71	10.44	29.15	48.25	19.10	
	0.647	12.75	10.40	23.15	46.00	22.85	
	0.963	14.24	10.41	24.65	46.00	21.35	
	3.681	11.75	10.44	22.19	46.00	23.81	
	19.326	21.35	10.61	31.96	50.00	18.04	
Neutral	0.168	33.70	10.56	44.26	65.08	20.82	QP
	0.385	31.86	10.43	42.29	58.17	15.88	
	0.641	30.14	10.39	40.53	56.00	15.47	
	0.890	27.29	10.41	37.70	56.00	18.30	
	2.678	23.94	10.46	34.40	56.00	21.60	
	18.232	25.70	10.70	36.40	60.00	23.60	
	0.168	22.70	10.56	33.26	55.08	21.82	AV
	<b>0.385</b>	<b>23.86</b>	<b>10.43</b>	<b>34.29</b>	<b>48.17</b>	<b>13.88</b>	
	0.641	18.14	10.39	28.53	46.00	17.47	
	0.890	18.29	10.41	28.70	46.00	17.30	
	2.678	14.94	10.46	25.40	46.00	20.60	
	18.232	21.70	10.70	32.40	50.00	17.60	

TEST ENGINEER: BYRON WU

## 4 RADIATED EMISSION TEST

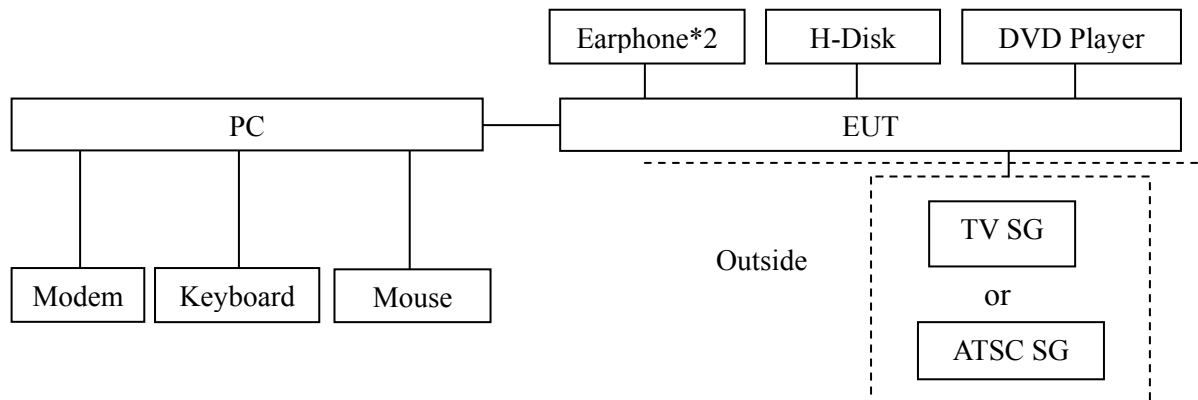
### 4.1 Test Equipment

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, 2017	May 14, 2018
5.	Horn Antenna	EMCO	3115	9607-4878	Jun 03, 2017	Jun 02, 2018
6.	Spectrum	Agilent	E7405A	MY45106600	Apr 26, 2017	Apr 25, 2018
7.	Software	Audix	e3	6.2007-9-10	--	--

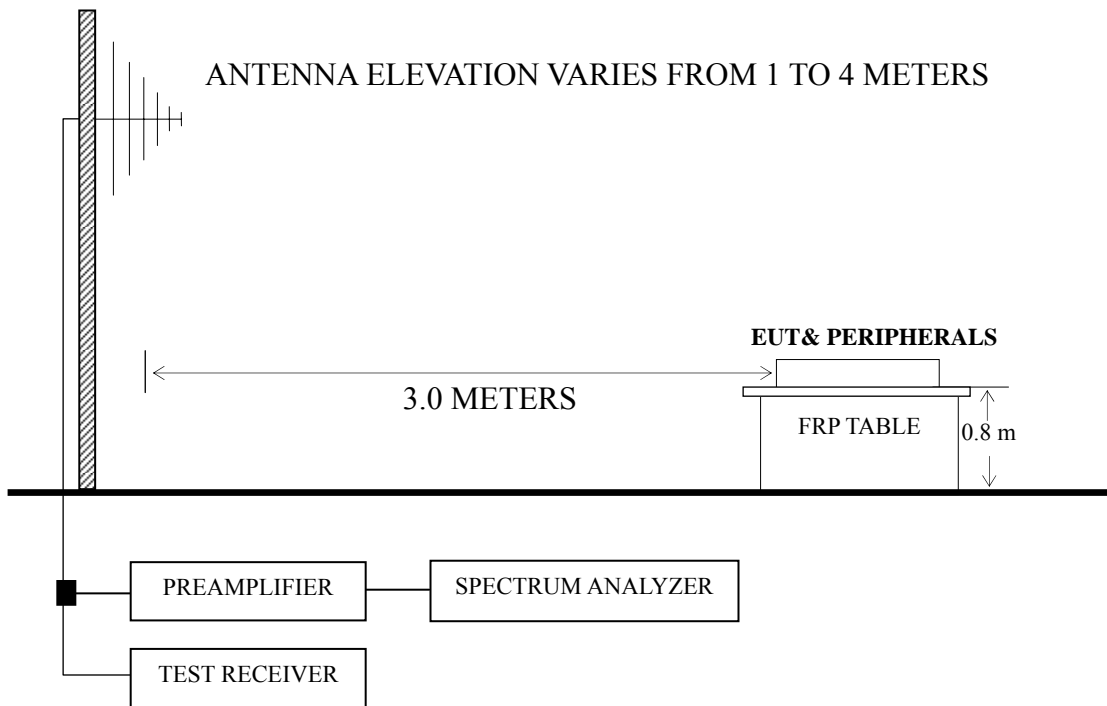
### 4.2 Block Diagram of Test Setup

#### 4.2.1 EUT & Peripherals



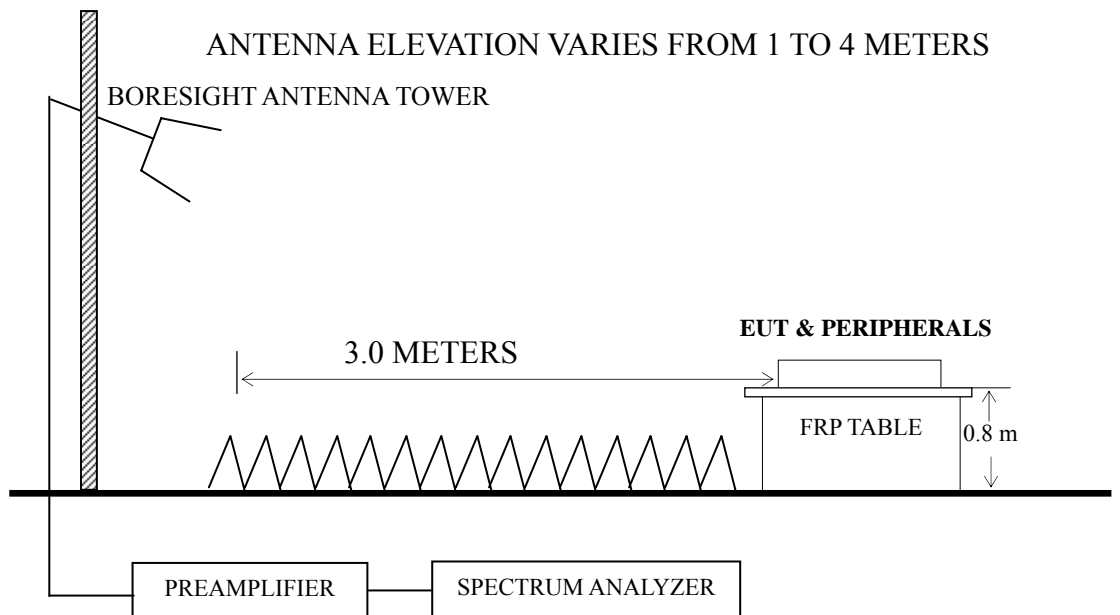
### 4.2.2 Radiated emission test setup

#### 4.2.2.1 Below 1GHz



■ : 50 ohm Coaxial Switch

#### 4.2.2.2 Above 1GHz





### 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.

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

The frequency range from 1 GHz to 5 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
HDMI2 3840*2160@60Hz & 1kHz playing	P28-P29
HDMI3 3840*2160@60Hz & 1kHz playing	P30
HDMI2 1920*1080@60Hz & 1kHz playing	P31
HDMI2 1280*1024@60Hz & 1kHz playing	P32
HDMI2 640*480@60Hz & 1kHz playing	P33
HDMI1080P	P34
USB Play	P35
LAN Play	P36
WIFI	P37

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.

EUT : LED LCD TV Temperature : 22°C

Model No. : 55P62 Humidity : 60%RH

Test Mode : HDMI1 3840\*2160@60Hz Date of Test : Jun 14, 2017  
& 1kHz Playing

Polarization	Frequency (MHz)	Meter Reading dB ( $\mu$ V)	Antenna Factor (dB/m)	Cable Loss (dB)	Emission Level dB ( $\mu$ V/m)	Limits dB ( $\mu$ V/m)	Margin (dB)
Horizontal	<b>77.051</b>	<b>26.01</b>	<b>8.84</b>	<b>0.85</b>	<b>35.70</b>	<b>40.00</b>	<b>4.30</b>
	159.784	21.23	10.61	1.32	33.16	43.50	10.34
	269.428	20.54	13.60	1.69	35.83	46.00	10.17
	449.556	14.28	17.60	2.19	34.07	46.00	11.93
	554.825	13.91	18.70	2.41	35.02	46.00	10.98
	890.728	17.65	21.00	3.03	41.68	46.00	4.32
Vertical	31.955	15.67	17.70	0.57	33.94	40.00	6.06
	76.781	25.19	8.77	0.85	34.81	40.00	5.19
	159.784	22.61	10.61	1.32	34.54	43.50	8.96
	279.044	20.54	13.60	1.72	35.86	46.00	10.14
	552.883	14.31	18.70	2.41	35.42	46.00	10.58
	890.728	15.14	21.00	3.03	39.17	46.00	6.83

TEST ENGINEER: LEON YUN

EUT : LED LCD TV Temperature : 22°C

Model No. : 55P62 Humidity : 60%RH

Test Mode : HDMI2 3840\*2160@60Hz & 1kHz playing Date of Test : Jun 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
Horizontal	77.051	25.41	8.84	0.85	0.00	35.10	40.00	4.90	QP
	159.784	20.52	10.61	1.32	0.00	32.45	43.50	11.05	
	269.428	20.11	13.60	1.69	0.00	35.40	46.00	10.60	
	444.851	13.48	17.50	2.17	0.00	33.15	46.00	12.85	
	549.020	15.08	18.68	2.39	0.00	36.15	46.00	9.85	
	<b>900.147</b>	<b>18.56</b>	<b>20.90</b>	<b>3.05</b>	<b>0.00</b>	<b>42.51</b>	<b>46.00</b>	<b>3.49</b>	
	1306.004	55.89	24.88	3.65	36.00	48.42	74.00	25.58	PK
	2594.039	51.97	28.83	5.03	35.20	50.63	74.00	23.37	
	3097.515	48.72	30.71	5.90	35.09	50.24	74.00	23.76	
	1306.004	40.66	24.88	3.65	36.00	33.19	54.00	20.81	AV
	2594.039	36.19	28.83	5.03	35.20	34.85	54.00	19.15	
3097.515	33.48	30.71	5.90	35.09	35.00	54.00	19.00		

TEST ENGINEER: LEON YUN

EUT : LED LCD TV Temperature : 22°C

Model No. : 55P62 Humidity : 60%RH

Test Mode : HDMI2 3840\*2160@60Hz & 1kHz playing Date of Test : Jun 14, 2017

Polarization	Frequency (MHz)	Meter Reading dB ( $\mu$ V)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB ( $\mu$ V/m)	Limits dB ( $\mu$ V/m)	Margin (dB)	Remark
Vertical	31.955	15.24	17.70	0.57	0.00	33.51	40.00	6.49	QP
	<b>77.051</b>	<b>24.42</b>	<b>8.84</b>	<b>0.85</b>	<b>0.00</b>	<b>34.11</b>	<b>40.00</b>	<b>5.89</b>	
	159.784	23.31	10.61	1.32	0.00	35.24	43.50	8.26	
	277.094	21.19	13.60	1.71	0.00	36.50	46.00	9.50	
	547.098	14.16	18.66	2.39	0.00	35.21	46.00	10.79	
	721.726	10.31	20.50	2.73	0.00	33.54	46.00	12.46	PK
	1341.581	62.54	25.03	3.69	35.95	55.31	74.00	18.69	
	1755.252	60.44	26.65	4.13	35.45	55.77	74.00	18.23	
	2640.937	50.42	29.03	5.18	35.20	49.43	74.00	24.57	AV
	1341.581	47.64	25.03	3.69	35.95	40.41	54.00	13.59	
	1755.252	46.20	26.65	4.13	35.45	41.53	54.00	12.47	
2640.937	35.45	29.03	5.18	35.20	34.46	54.00	19.54		

EUT : LED LCD TV Temperature : 22°C

Model No. : 55P62 Humidity : 60%RH

Test Mode : HDMI3 3840\*2160@60Hz & 1kHz playing Date of Test : Jun 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>77.051</b>	<b>25.68</b>	<b>8.84</b>	<b>0.85</b>	<b>35.37</b>	<b>40.00</b>	<b>4.63</b>
	159.784	21.52	10.61	1.32	33.45	43.50	10.05
	269.428	19.50	13.60	1.69	34.79	46.00	11.21
	446.414	13.40	17.53	2.17	33.10	46.00	12.90
	545.183	12.14	18.66	2.39	33.19	46.00	12.81
	890.728	17.34	21.00	3.03	41.37	46.00	4.63
Vertical	31.955	15.03	17.70	0.57	33.30	40.00	6.70
	73.876	25.48	8.27	0.83	34.58	40.00	5.42
	159.784	23.39	10.61	1.32	35.32	43.50	8.18
	277.094	21.43	13.60	1.71	36.74	46.00	9.26
	552.883	13.95	18.70	2.41	35.06	46.00	10.94
	890.728	16.75	21.00	3.03	40.78	46.00	5.22

TEST ENGINEER: LEON YUN

EUT : LED LCD TV Temperature : 22°C

Model No. : 55P62 Humidity : 60%RH

Test Mode : HDMI2 1920\*1080@60Hz & 1kHz Playing Date of Test : Jun 14, 2017

Polarization	Frequency (MHz)	Meter Reading dB ( $\mu$ V)	Antenna Factor (dB/m)	Cable Loss (dB)	Emission Level dB ( $\mu$ V/m)	Limits dB ( $\mu$ V/m)	Margin (dB)
Horizontal	<b>77.051</b>	<b>25.15</b>	<b>8.84</b>	<b>0.85</b>	<b>34.84</b>	<b>40.00</b>	<b>5.16</b>
	159.784	20.85	10.61	1.32	32.78	43.50	10.72
	293.084	19.83	13.80	1.75	35.38	46.00	10.62
	446.414	14.35	17.53	2.17	34.05	46.00	11.95
	742.259	13.41	20.57	2.76	36.74	46.00	9.26
	890.728	16.42	21.00	3.03	40.45	46.00	5.55
Vertical	30.962	14.31	18.21	0.56	33.08	40.00	6.92
	77.051	24.98	8.84	0.85	34.67	40.00	5.33
	159.784	22.92	10.61	1.32	34.85	43.50	8.65
	277.094	20.45	13.60	1.71	35.76	46.00	10.24
	550.948	12.55	18.70	2.41	33.66	46.00	12.34
	742.259	15.98	20.57	2.76	39.31	46.00	6.69

TEST ENGINEER: LEON YUN

EUT : LED LCD TV Temperature : 22°C

Model No. : 55P62 Humidity : 60%RH

Test Mode : HDMI2 1280\*1024@60Hz & 1kHz Playing Date of Test : Jun 14, 2017

Polarization	Frequency (MHz)	Meter Reading dB ( $\mu$ V)	Antenna Factor (dB/m)	Cable Loss (dB)	Emission Level dB ( $\mu$ V/m)	Limits dB ( $\mu$ V/m)	Margin (dB)
Horizontal	<b>77.051</b>	<b>24.32</b>	<b>8.84</b>	<b>0.85</b>	<b>34.01</b>	<b>40.00</b>	<b>5.99</b>
	159.784	21.91	10.61	1.32	33.84	43.50	9.66
	230.907	21.20	11.38	1.59	34.17	46.00	11.83
	307.831	20.47	14.15	1.80	36.42	46.00	9.58
	449.556	13.23	17.60	2.19	33.02	46.00	12.98
	890.728	14.31	21.00	3.03	38.34	46.00	7.66
Vertical	30.962	15.03	18.21	0.56	33.80	40.00	6.20
	73.876	24.62	8.27	0.83	33.72	40.00	6.28
	135.982	17.90	12.11	1.21	31.22	43.50	12.28
	159.784	23.08	10.61	1.32	35.01	43.50	8.49
	277.094	19.64	13.60	1.71	34.95	46.00	11.05
	547.098	10.38	18.66	2.39	31.43	46.00	14.57

TEST ENGINEER: LEON YUN



EUT : LED LCD TV Temperature : 22°C

Model No. : 55P62 Humidity : 60%RH

Test Mode : HDMI2 640\*480@60Hz & 1kHz Playing Date of Test : Jun 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>74.919</b>	<b>24.18</b>	<b>8.40</b>	<b>0.84</b>	<b>33.42</b>	<b>40.00</b>	<b>6.58</b>
	159.784	19.31	10.61	1.32	31.24	43.50	12.26
	226.894	20.60	11.18	1.58	33.36	46.00	12.64
	307.831	22.12	14.15	1.80	38.07	46.00	7.93
	449.556	13.41	17.60	2.19	33.20	46.00	12.80
	893.857	13.88	20.97	3.03	37.88	46.00	8.12
Vertical	31.955	14.72	17.70	0.57	32.99	40.00	7.01
	77.051	23.27	8.84	0.85	32.96	40.00	7.04
	153.739	22.33	11.45	1.30	35.08	43.50	8.42
	230.907	20.48	11.38	1.59	33.45	46.00	12.55
	294.114	21.02	13.80	1.75	36.57	46.00	9.43
	890.728	10.54	21.00	3.03	34.57	46.00	11.43

TEST ENGINEER: LEON YUN

EUT : LED LCD TV Temperature : 22°C

Model No. : 55P62 Humidity : 60%RH

Test Mode : HDMI1080P Date of Test : Jun 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	75.446	24.95	8.52	0.84	34.31	40.00	5.69
	147.921	19.28	11.71	1.27	32.26	43.50	11.24
	238.310	17.18	11.88	1.61	30.67	46.00	15.33
	271.325	19.83	13.60	1.70	35.13	46.00	10.87
	547.098	14.78	18.66	2.39	35.83	46.00	10.17
	881.407	16.89	21.10	3.01	41.00	46.00	5.00
Vertical	30.853	14.10	18.29	0.56	32.95	40.00	7.05
	<b>74.919</b>	<b>25.78</b>	<b>8.40</b>	<b>0.84</b>	<b>35.02</b>	<b>40.00</b>	<b>4.98</b>
	139.851	18.33	12.50	1.23	32.06	43.50	11.44
	152.130	20.11	11.50	1.29	32.90	43.50	10.60
	273.234	18.88	13.60	1.70	34.18	46.00	11.82
	547.098	14.90	18.66	2.39	35.95	46.00	10.05

TEST ENGINEER: LEON YUN

EUT : LED LCD TV Temperature : 22°C  
 Model No. : 55P62 Humidity : 60%RH  
 Test Mode : USB Play Date of Test : Jun 14, 2017

Polarization	Frequency (MHz)	Meter Reading dB ( $\mu$ V)	Antenna Factor (dB/m)	Cable Loss (dB)	Emission Level dB ( $\mu$ V/m)	Limits dB ( $\mu$ V/m)	Margin (dB)
Horizontal	75.182	25.51	8.46	0.84	34.81	40.00	5.19
	135.982	18.96	12.11	1.21	32.28	43.50	11.22
	264.746	16.85	13.40	1.68	31.93	46.00	14.07
	407.515	13.27	16.70	2.08	32.05	46.00	13.95
	636.134	9.94	19.75	2.59	32.28	46.00	13.72
	878.322	10.04	21.07	3.01	34.12	46.00	11.88
Vertical	31.731	15.19	17.85	0.57	33.61	40.00	6.39
	<b>77.865</b>	<b>25.05</b>	<b>8.96</b>	<b>0.85</b>	<b>34.86</b>	<b>40.00</b>	<b>5.14</b>
	157.559	20.25	10.95	1.31	32.51	43.50	10.99
	280.024	18.81	13.60	1.72	34.13	46.00	11.87
	578.670	12.42	19.30	2.46	34.18	46.00	11.82
	848.056	10.31	20.90	2.94	34.15	46.00	11.85

TEST ENGINEER: LEON YUN

EUT : LED LCD TV Temperature : 22°C

Model No. : 55P62 Humidity : 60%RH

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

Polarization	Frequency (MHz)	Meter Reading dB ( $\mu$ V)	Antenna Factor (dB/m)	Cable Loss (dB)	Emission Level dB ( $\mu$ V/m)	Limits dB ( $\mu$ V/m)	Margin (dB)
Horizontal	<b>74.919</b>	<b>24.83</b>	<b>8.40</b>	<b>0.84</b>	<b>34.07</b>	<b>40.00</b>	<b>5.93</b>
	149.486	19.26	11.64	1.28	32.18	43.50	11.32
	275.157	17.69	13.60	1.71	33.00	46.00	13.00
	451.135	12.80	17.60	2.19	32.59	46.00	13.41
	556.774	12.42	18.70	2.41	33.53	46.00	12.47
	881.407	12.93	21.10	3.01	37.04	46.00	8.96
Vertical	30.745	15.07	18.36	0.56	33.99	40.00	6.01
	75.182	24.76	8.46	0.84	34.06	40.00	5.94
	138.874	18.71	12.39	1.23	32.33	43.50	11.17
	154.279	19.77	11.42	1.30	32.49	43.50	11.01
	280.024	19.92	13.60	1.72	35.24	46.00	10.76
	543.274	13.16	18.64	2.39	34.19	46.00	11.81

TEST ENGINEER: LEON YUN

EUT : LED LCD TV Temperature : 22°C

Model No. : 55P62 Humidity : 60%RH

Test Mode : WIFI Date of Test : Jun 14, 2017

Polarization	Frequency (MHz)	Meter Reading dB ( $\mu$ V)	Antenna Factor (dB/m)	Cable Loss (dB)	Emission Level dB ( $\mu$ V/m)	Limits dB ( $\mu$ V/m)	Margin (dB)
Horizontal	<b>74.657</b>	<b>25.59</b>	<b>8.36</b>	<b>0.84</b>	<b>34.79</b>	<b>40.00</b>	<b>5.21</b>
	135.506	17.82	12.06	1.21	31.09	43.50	12.41
	281.008	18.29	13.62	1.72	33.63	46.00	12.37
	451.135	13.51	17.60	2.19	33.30	46.00	12.70
	552.883	14.05	18.70	2.41	35.16	46.00	10.84
Vertical	884.503	12.78	21.05	3.01	36.84	46.00	9.16
	31.399	15.13	17.99	0.56	33.68	40.00	6.32
	74.135	24.97	8.27	0.83	34.07	40.00	5.93
	150.538	19.38	11.58	1.28	32.24	43.50	11.26
	280.024	20.00	13.60	1.72	35.32	46.00	10.68
	558.730	13.98	18.70	2.43	35.11	46.00	10.89
	884.503	15.03	21.05	3.01	39.09	46.00	6.91

TEST ENGINEER: LEON YUN

## **5 DEVIATION TO TEST SPECIFICATIONS**

None.

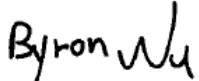
## 6 DEBUG DESCRIPTION

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 Appendix Figure 21

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

TEST ENGINEER:

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**(BYRON WU)**