#### FCC ID:W8ULE40E3010C1

# APPLICATION OF CERTIFICATION For

TTE Technology Inc.

#### LCD TV

| Brand Name | Model Number               |  |  |  |
|------------|----------------------------|--|--|--|
| TCL        | LE40FHDE3010; LE40FHDE3011 |  |  |  |

FCC ID: W8ULE40E3010C1

Prepared for: TTE Technology Inc.

555 S. Promenade Ave., Suite 103, Corona, CA 92879, U.S.A.

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

No. 6, Ke Feng Rd., 52 Block,

Shenzhen Science & Industrial Park, Nantou, Shenzhen, Guangdong, China

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Report Number : ACS-F13135

Date of Test : Apr.21~23, 2013

Date of Report : May. 21, 2013



#### FCC ID:W8ULE40E3010C1

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FCC ID: W8ULE40E3010C1

#### REPORT CERTIFICATION TEST

Applicant TTE Technology Inc.

Manufacturer TCL King Electrical Appliances (Huizhou) Co., Ltd.

**EUT Description** LCD TV

FCC ID W8ULE40E3010C1

> (A) Model No. &: **Brand Name** Model Number

**Brand Name** TCL LE40FHDE3010; LE40FHDE3011

(B) Power Supply: AC 120V/60Hz (C) Test Voltage : AC 120V/60Hz

Measurement Standard Used:

FCC Rules and Regulations Part 15 Subpart B Class B 2012,

ANSI C63.4: 2009

The device described above is tested by AUDIX TECHNOLOGY (SHENZHEN) 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 conducted and radiated emissions. The test results are contained in this test report and AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. is assumed of full responsibility for the accuracy and completeness of these tests. This report contains data that are not covered by the NVLAP accreditation.

After the test, our opinion is that EUT compliance with the requirement of the above standards.

This Report is made under FCC Part 2.1075. No modifications were required during testing to bring this product into compliance.

This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

The 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.

Date of Test: Mar.14~ Apr.02,2013 Report of date: May. 21, 2013

Prepared by: Reviewed by:

Miya Zhou / Assistant Sun Zeng / Supervisor

> ® 信華科技 (深圳) 有限公司 AUDIX Audix Technology (Shenzhen) Co., Ltd. EMC部門報告專用章 Stamp only for EMC Dept. Report Signature:

Approved & Authorized Signer:

Ken Lu / 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.

| EMISSION                               |                                       |      |  |  |  |  |  |  |
|--|---------------------------------------|------|--|--|--|--|--|--|
| <b>Description of Test Item</b>        | Standard Results                      |      | Remarks  |  |  |  |  |  |
| Power Line Conducted<br>Emission Test  | FCC Part 15: 2012<br>ANSI C63.4: 2009 | PASS | Meets Class B Limit Minimum<br>passing margin is 14.54 dB<br>at 0.46861MHz |  |  |  |  |  |
| Radiated Emission Test<br>(30-1000MHz) | FCC Part 15: 2012<br>ANSI C63.4: 2009 | PASS | Meets Class B Limit Minimum<br>passing margin is 3.02dB<br>at 346.500MHz   |  |  |  |  |  |
| Radiated Emission Test (1-2GHz)        | FCC Part 15: 2012<br>ANSI C63.4: 2009 | PASS | Meets Class B Limit Minimum<br>passing margin is 11.65dB<br>at 1598.253MHz |  |  |  |  |  |



# 2. GENERAL INFORMATION

2.1.Description of Device (EUT)

Description : LCD TV

Model Number : LE40FHDE3010; LE40FHDE3011

Only the before of article decorated box is different

FCC ID : W8ULE40E3010C1

Applicant : TTE Technology Inc.

555 S. Promenade Ave., Suite 103, Corona, CA 92879, U.S.A.

Manufacturer : TCL King Electrical Appliances (Huizhou) Co., Ltd.

Section 19, Zhongkai Development Zone for New & High-Level Tech Industries, Huizhou, Guangdong Province, China, 516006.

| FREQUENCIES USED AND GENERATED WITHIN DEVICE |              |  |  |  |  |
|--|--------------|--|--|--|--|
| LVDS (HD)                                    | 78MHZ        |  |  |  |  |
| LVDS (FHD)                                   | 75MHZ        |  |  |  |  |
| IF   | 6MHz         |  |  |  |  |
| DC-DC  | U302->385KHz |  |  |  |  |
| DDR  | 390MHz       |  |  |  |  |
| AMP  | 384KHz       |  |  |  |  |

Power Cord : Unshielded, Undetachable, 1.8m

Date of Test : Apr.21~23, 2013

Date of Receipt : Apr.19, 2013

Sample Type : Prototype production

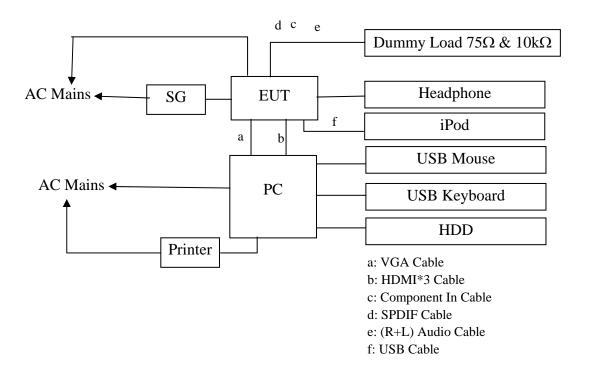


# 2.2.Tested Supporting System Details

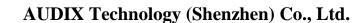
|   | Description  | ACS No.                               | Manufacturer                          | Model      | Serial Number                | Approved type                     |  |  |
|---|--|---------------------------------------|---------------------------------------|------------|------------------------------|-----------------------------------|--|--|
| 1   | Personal   | Test PC M                             | DELL                                  | Studio 540 | 224XK2X                      | ☑FCC DoC<br>☑BSMI ID:R33002       |  |  |
| 1.  | Computer   | Power Cord: Unshie Display Card: HD34 | · · · · · · · · · · · · · · · · · · · |            |                              |                                   |  |  |
| 2.  | USB Keyboard   | ACS-EMC- K04R                         | DELL                                  | SK-8115    | CN-ODJ313-7161<br>6-6BB-049J | ☑ FCC DoC<br>☑BSMI ID: T3A002     |  |  |
| 2.  | OSD Reyboard   | Data Cable: shielded                  | l, Undetachable, 2                    | 2.0m       |                              |                                   |  |  |
| 3.  | Headphone  | ACS-EMC-EP03                          | OVANN                                 | OV880V     | N/A                          | □FCC ID<br>□BSMI ID               |  |  |
| J.  | Treadphone   | Cable: Shielded, Un                   | detachabled, 4.0n                     | 1          |                              |                                   |  |  |
|   |  | ACS-EMC-PT04                          | НР                                    | C9079A     | N/A                          | ☑FCC DoC<br>☑BSMI ID: R33001      |  |  |
| 4.  | Printer  | USD Cobles Shielded Detecholded 1 9m  |                                       |            |                              |                                   |  |  |
| 5.  | USB Mouse  | ACS-EMC-M04R                          | DELL                                  | M056UO     | 512024282                    | ☑ FCC DoC<br>☑BSMI ID: R41108     |  |  |
|   |  | Data Cable: shielded                  | l, Undetachable, 1                    | 1.8m       |                              |                                   |  |  |
| 6.  | iPod nano  | ACS-EMC-IP03                          | APPLE                                 | A1199      | YM711H3LVQ5                  | ☑FCC DoC<br>☑BSMI ID: R33057      |  |  |
|   |  | Data Cable: Shielded                  | d, Detachabled, 1                     | .0m        |                              |                                   |  |  |
| 7.  | HDD  | ACS-EMC-HDD03                         | Terasys                               | F12-UF     | A0100215-53900<br>30         | ☑FCC DoC<br>☑BSMI ID:<br>4912A022 |  |  |
|   |  | USB Cable: Shielded                   | d, Detachable, 1.8                    | 3m         |                              |                                   |  |  |
| 8.  | 8. Dummy Load (10KΩ &75Ω) Component In Cable: Unshielded, Detachable, 1.5m SPDIF Cable: Unshielded, Detachable, 1.5m (R+L) Cable: Shielded, Detachable, 1.5m |                                       |                                       |            |                              |                                   |  |  |
| D-Sub Cable: Shielded, Detachable, 1.5m HDMI Cable: Shielded, Detachable, 1.8m  9. Audio Cable: Unshielded, Detachabled, 1.5m Spdif Cable: Unshielded, Detachabled, 1.5m Component Cable: Unshielded, Detachabled, 1.5m |  |                                       |                                       |            |                              |                                   |  |  |



# 2.3.Block diagram of connection between the EUT and simulators



(EUT: LCD TV)





#### 2.4. Test Facility

Site Description

Name of Firm : Audix Technology (Shenzhen) Co., Ltd.

No. 6, Ke Feng Rd., 52 Block, Shenzhen Science & Industrial Park, Nantou, Shenzhen, Guangdong, China

3m Anechoic Chamber : Certificated by FCC, USA

Registration Number: 90454 Valid Date: Feb.22, 2015

3m & 10m Anechoic Chamber : Certificated by FCC, USA

Registration Number: 794232 Valid Date: Oct.31, 2015

EMC Lab. : Certificated by DAkkS, Germany

Registration No: D-PL-12151-01-01

Valid Date: Feb.01, 2014

Accredited by NVLAP, USA NVLAP Code: 200372-0 Valid Date: Mar.31, 2014

# 2.5. Measurement Uncertainty (95% confidence levels, k=2)

| Test Item  | Uncertainty                      |  |  |
|--|----------------------------------|--|--|
| Uncertainty for Conduction emission test in No. 1 Conduction | 3.06 dB                          |  |  |
|  | 3.6 dB(30~200MHz, Polarize: H)   |  |  |
| Uncertainty for Radiation Emission test                      | 3.8 dB(30~200MHz, Polarize: V)   |  |  |
| in 3m chamber  | 4.2 dB(200M~1GHz, Polarize: H)   |  |  |
|  | 3.8 dB(200M~1GHz, Polarize: V)   |  |  |
| Uncertainty for Radiation Emission test in                   | 3.1dB(Distance: 3m Polarize: V)  |  |  |
| 3m chamber (1GHz-18GHz)                                      | 3.7 dB(Distance: 3m Polarize: H) |  |  |
| Uncertainty for test site temperature                        | 3%                               |  |  |
| and humidity   | 0.6℃                             |  |  |

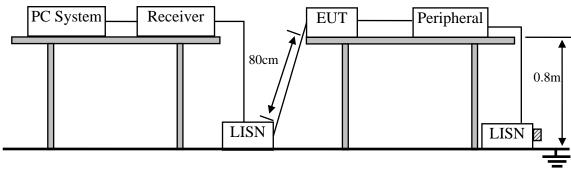


#### 3. POWER LINE CONDUCTED EMISSION MEASUREMENT

### 3.1.Test Equipment

| Item | Equipment      | Manufacturer    | Model No.  | Serial No. | Last Cal.  | Cal. Interval |
|------|----------------|-----------------|------------|------------|------------|---------------|
| 1.   | Test Receiver  | Rohde & Schwarz | ESHS10     | 838693/001 | Oct.31, 12 | 1 Year        |
| 2.   | L.I.S.N.#1     | Rohde & Schwarz | ESH2-Z5    | 834066/011 | Oct.31, 12 | 1 Year        |
| 3.   | L.I.S.N.#3     | Kyoritsu        | KNW-242C   | 8-1920-1   | May.08, 12 | 1 Year        |
| 4.   | Terminator     | Hubersuhner     | $50\Omega$ | No. 1      | May.08, 12 | 1 Year        |
| 5.   | Terminator     | Hubersuhner     | $50\Omega$ | No. 2      | May.08, 12 | 1 Year        |
| 6.   | RF Cable       | Fujikura        | 3D-2W      | No.1       | May.08, 12 | 1Year         |
| 7.   | Coaxial Switch | Anritsu         | MP59B      | M50564     | May.08, 12 | 1 Year        |
| 8.   | Pulse Limiter  | Rohde & Schwarz | ESH3-Z2    | 100341     | May.08, 12 | 1 Year        |

### 3.2.Block Diagram of Test Setup



☑ :50Ω Terminator

#### 3.3. Power Line Conducted Emission Test Limits

|                 | Maximum RF Line Voltage |               |  |  |  |
|-----------------|-------------------------|---------------|--|--|--|
| Frequency       | Quasi-Peak Level        | Average Level |  |  |  |
|                 | $dB(\mu V)$             | $dB(\mu V)$   |  |  |  |
| 150kHz ~ 500kHz | 66 ~ 56*                | 56 ~ 46*      |  |  |  |
| 500kHz ~ 5MHz   | 56                      | 46            |  |  |  |
| 5MHz ~ 30MHz    | 60                      | 50            |  |  |  |

Notes: 1. \* Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

#### 3.4. Configuration of EUT on Test

The following equipment are installed on Power Line Conducted Emission Test to meet the commission requirement and operating regulations in a manner which tends to maximize its emission characteristics in a normal application.

#### 3.4.1.LCD TV (EUT)

Model Number : LE40FHDE3010

Serial Number : N/A

3.4.2. Support Equipment: As Tested Supporting System Detail, in Section 2.2.



#### 3.5. Operating Condition of EUT

- 3.5.1. Setup the EUT and simulator as shown as Section 3.2.
- 3.5.2. Turn on the power of all equipment.
- 3.5.3.PC system ran the Self-test program "EMC Test. exe" by windows XP and sent "H" Character to LCD TV (EUT), the Screen of EUT displayed and filled with "H" pattern, use white letters on a black ground, set the contrast control to maximum, set the brightness control to maximum and measure it.
- 3.5.4. The other peripheral devices were driven and operated in turn during all testing.

#### 3.6.Test Procedure

The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT Power connected to the power mains through a line impedance stabilization network (L.I.S.N. 1#). This provided a 50-ohm coupling impedance for the EUT (Please refer to the block diagram of the test setup and photographs). The other peripheral devices power cord connected to the power mains through a line impedance stabilization network (L.I.S.N.#3). Both sides of power line were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.4: 2009 on conducted Emission test.

The bandwidth of test receiver (R&S TEST RECEIVER ESHS10) is set at 9kHz.

The frequency range from 150kHz to 30MHz is checked. The test result are reported on Section 3.7.

### 3.7. Conducted Emission at Mains Terminals Test Results

**PASS.** (All emissions not reported below are too low against the prescribed limits.)

The EUT with the following test modes were tested and selected to read Q.P values, all the test results are listed in next pages.

EUT: LCD TV Model No.: LE40FHDE3010

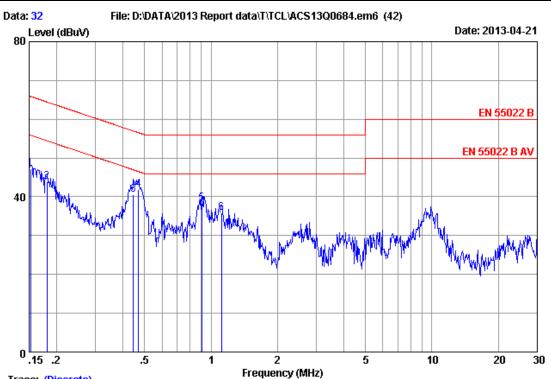
Test Date: Apr. 21, 2013 Temperature: 25.8℃ Humidity: 69%

The details of test modes are as follows:

| No.  | Test Mode | Input Port | Resolution &    | Reference Test Data No. |         |  |
|------|-----------|------------|-----------------|-------------------------|---------|--|
| NO.  | rest Mode | Input Port | Frequency       | Line                    | Neutral |  |
| 1. ※ |           |            | 640*480 @60Hz   | # 32                    | # 31    |  |
| 2.   | PC Mode   | VGA        | 1024*768 @ 60Hz | # 33                    | # 34    |  |
| 3.   |           |            | 1920*1080@60Hz  | # 36                    | # 35    |  |
| 4.   |           | HDMI 1     | 1920*1080@60Hz  | # 37                    | # 38    |  |
| 5.   |           | HDMI 2     | 1920*1080@60Hz  | # 40                    | # 39    |  |
| 6.   |           | HDMI 3     | 1920*1080@60Hz  | # 41                    | # 42    |  |

(\* Worst test mode)





Trace: (Discrete)

Site no :1#conduction

Data No :32

Dis./Ant. :\*\* 2012 ESH2-Z5 LINE

Limit :EN 55022 B

Env./Ins. :25.8\*C/69% Engineer :Berg \_Guo

EUT :LCD TV M/N:LE40FHDE3010

Power Rating :AC 120V/60Hz

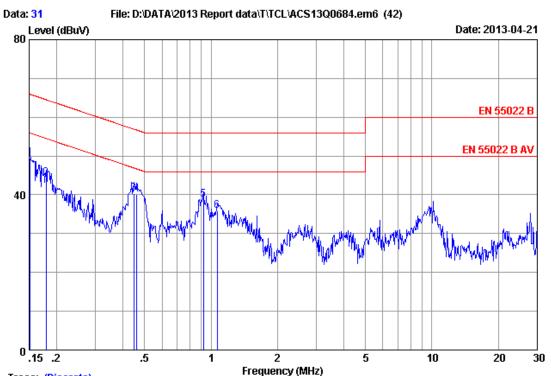
Test Mode :Running "H" Pattern And 1KHz Playing

VGA:640\*480@60Hz

| No<br> | Freq<br>(MHz) | LISN<br>Factor<br>(dB) | Cable<br>Loss<br>(dB) | Reading<br>(dBuV) | Emissior<br>Level<br>(dBuV) | n<br>Limits<br>(dBuV) | Margin<br>(dB) | Remark |
|--------|---------------|------------------------|-----------------------|-------------------|-----------------------------|-----------------------|----------------|--------|
| 1      | 0.15240       | 0.19                   | 0.14                  | 46.89             | 47.22                       | 65.87                 | 18.65          | QP     |
| 2      | 0.18056       | 0.19                   | 0.14                  | 43.57             | 43.90                       | 64.46                 | 20.56          | QP     |
| 3      | 0.44443       | 0.19                   | 0.15                  | 40.13             | 40.47                       | 56.98                 | 16.51          | QP     |
| 4      | 0.46861       | 0.19                   | 0.15                  | 41.66             | 42.00                       | 56.54                 | 14.54          | QP     |
| 5      | 0.90874       | 0.21                   | 0.14                  | 38.00             | 38.35                       | 56.00                 | 17.65          | QP     |
| 6      | 1.117         | 0.21                   | 0.14                  | 35.58             | 35.93                       | 56.00                 | 20.07          | QP     |

Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.





Trace: (Discrete)

Site no :1#conduction

nduction Data No :31

Dis./Ant. :\*\* 2012 ESH2-Z5 NEUTRAL

Limit :EN 55022 B

Env./Ins. :25.8\*C/69% Engineer :Berg \_Guo

EUT :LCD TV M/N:LE40FHDE3010

Power Rating :AC 120V/60Hz

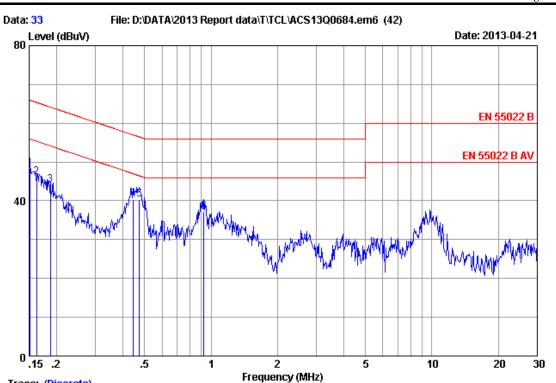
Test Mode :Running "H" Pattern And 1KHz Playing

VGA:640\*480@60Hz

|    |         | LISN   | Cable |         | Emission |        |        |        |
|----|---------|--------|-------|---------|----------|--------|--------|--------|
| No | Freq    | Factor | Loss  | Reading | Level    | Limits | Margin | Remark |
|    | (MHz)   | (dB)   | (dB)  | (dBuV)  | (dBuV)   | (dBuV) | (dB)   |        |
|    |         |        |       |         |          |        |        |        |
| 1  | 0.15160 | 0.21   | 0.14  | 49.02   | 49.37    | 65.91  | 16.54  | QP     |
| 2  | 0.17866 | 0.21   | 0.14  | 43.93   | 44.28    | 64.55  | 20.27  | QP     |
| 3  | 0.44679 | 0.23   | 0.15  | 39.92   | 40.30    | 56.93  | 16.63  | QP     |
| 4  | 0.46122 | 0.23   | 0.15  | 39.70   | 40.08    | 56.67  | 16.59  | QP     |
| 5  | 0.92330 | 0.24   | 0.14  | 38.44   | 38.82    | 56.00  | 17.18  | QP     |
| 6  | 1.065   | 0.24   | 0.14  | 35.55   | 35.93    | 56.00  | 20.07  | QP     |
|    |         |        |       |         |          |        |        |        |

Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.





Trace: (Discrete)

Site no :1#conduction

Data No :33

Dis./Ant. :\*\* 2012 ESH2-Z5 LINE

Limit :EN 55022 B

Env./Ins. :25.8\*C/69% Engineer :Berg \_Guo

EUT :LCD TV M/N:LE40FHDE3010

Power Rating :AC 120V/60Hz

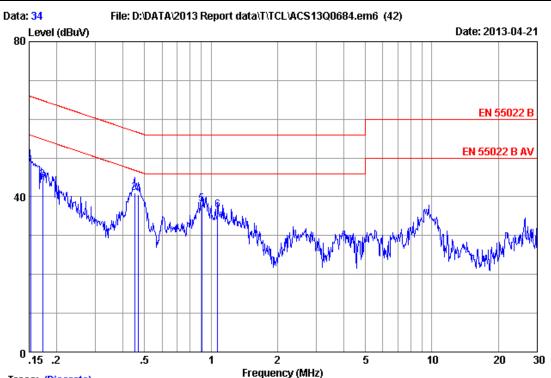
Test Mode :Running "H" Pattern And 1KHz Playing

VGA:1024\*768@60Hz

| No<br> | Freq<br>(MHz) | LISN<br>Factor<br>(dB) | Cable<br>Loss<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV) | Limits<br>(dBuV) | Margin<br>(dB) | Remark |
|--------|---------------|------------------------|-----------------------|-------------------|-----------------------------|------------------|----------------|--------|
| 1      | 0.15160       | 0.19                   | 0.14                  | 48.07             | 48.40                       | 65.91            | 17.51          | QP     |
| 2      | 0.16241       | 0.19                   | 0.14                  | 45.79             | 46.12                       | 65.34            | 19.22          | QP     |
| 3      | 0.18738       | 0.19                   | 0.14                  | 43.69             | 44.02                       | 64.15            | 20.13          | QP     |
| 4      | 0.44443       | 0.19                   | 0.15                  | 39.94             | 40.28                       | 56.98            | 16.70          | QP     |
| 5      | 0.47360       | 0.19                   | 0.15                  | 40.10             | 40.44                       | 56.45            | 16.01          | QP     |
| 6      | 0.92821       | 0.21                   | 0.14                  | 36.90             | 37.25                       | 56.00            | 18.75          | QP     |

Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.





Trace: (Discrete)

Site no :1#conduction

Data No :34

Dis./Ant. :\*\* 2012 ESH2-Z5 NEUTRAL

Limit :EN 55022 B

Env./Ins. :25.8\*C/69% Engineer :Berg \_Guo

EUT :LCD TV M/N:LE40FHDE3010

Power Rating :AC 120V/60Hz

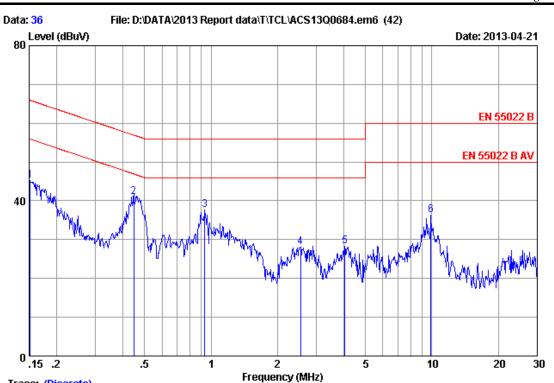
Test Mode :Running "H" Pattern And 1KHz Playing

VGA:1024\*768@60Hz

|    |         | LISN   | Cable |         | Emission | ı      |        |        |
|----|---------|--------|-------|---------|----------|--------|--------|--------|
| No | Freq    | Factor | Loss  | Reading | Level    | Limits | Margin | Remark |
|    | (MHz)   | (dB)   | (dB)  | (dBuV)  | (dBuV)   | (dBuV) | (dB)   |        |
|    |         |        |       |         |          |        |        |        |
| 1  | 0.15240 | 0.21   | 0.14  | 49.14   | 49.49    | 65.87  | 16.38  | QP     |
| 2  | 0.17307 | 0.21   | 0.14  | 44.03   | 44.38    | 64.81  | 20.43  | QP     |
| 3  | 0.45155 | 0.23   | 0.15  | 40.65   | 41.03    | 56.85  | 15.82  | QP     |
| 4  | 0.46861 | 0.23   | 0.15  | 40.26   | 40.64    | 56.54  | 15.90  | QP     |
| 5  | 0.90874 | 0.24   | 0.14  | 37.73   | 38.11    | 56.00  | 17.89  | QP     |
| 6  | 1.071   | 0.24   | 0.14  | 36.23   | 36.61    | 56.00  | 19.39  | QP     |
|    |         |        |       |         |          |        |        |        |

Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.





Trace: (Discrete)

Site no :1#conduction

ion Data No :36

Dis./Ant. :\*\* 2012 ESH2-Z5 LINE

Limit :EN 55022 B

Env./Ins. :25.8\*C/69% Engineer :Berg \_Guo

EUT :LCD TV M/N:LE40FHDE3010

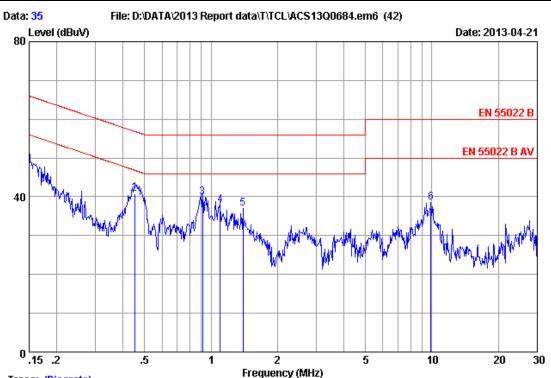
Power Rating :AC 120V/60Hz

Test Mode :Running "H" Pattern And 1KHz Playing

VGA:1920\*1080@60Hz

| No<br> | Freq<br>(MHz) | LISN<br>Factor<br>(dB) | Cable<br>Loss<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV) | Limits<br>(dBuV) | Margin<br>(dB) | Remark |
|--------|---------------|------------------------|-----------------------|-------------------|-----------------------------|------------------|----------------|--------|
| 1      | 0.15160       | 0.19                   | 0.14                  | 44.85             | 45.18                       | 65.91            | 20.73          | QP     |
| 2      | 0.44679       | 0.19                   | 0.15                  | 40.56             | 40.90                       | 56.93            | 16.03          | QP     |
| 3      | 0.93810       | 0.21                   | 0.14                  | 37.36             | 37.71                       | 56.00            | 18.29          | QP     |
| 4      | 2.540         | 0.25                   | 0.14                  | 27.65             | 28.04                       | 56.00            | 27.96          | QP     |
| 5      | 4.027         | 0.29                   | 0.14                  | 27.85             | 28.28                       | 56.00            | 27.72          | QP     |
| 6      | 9.913         | 0.45                   | 0.17                  | 35.60             | 36.22                       | 60.00            | 23.78          | QP     |

Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.



Trace: (Discrete)

Site no :1#conduction

Data No :35

Dis./Ant. :\*\* 2012 ESH2-Z5 NEUTRAL

Limit :EN 55022 B

Env./Ins. :25.8\*C/69% Engineer :Berg \_Guo

EUT :LCD TV M/N:LE40FHDE3010

Power Rating :AC 120V/60Hz

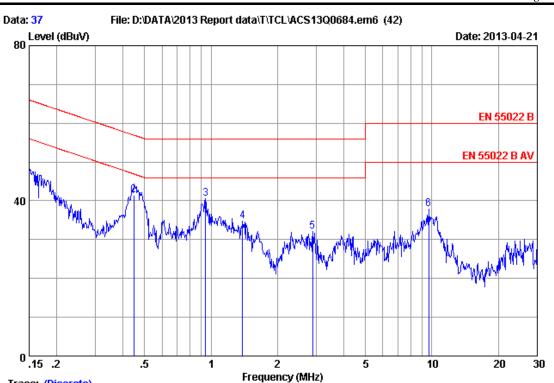
Test Mode :Running "H" Pattern And 1KHz Playing

VGA:1920\*1080@60Hz

| No | Freq<br>(MHz) | LISN<br>Factor<br>(dB) | Cable<br>Loss<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV) | Limits<br>(dBuV) | Margin<br>(dB) | Remark |
|----|---------------|------------------------|-----------------------|-------------------|-----------------------------|------------------|----------------|--------|
| 1  | 0.15000       | 0.21                   | 0.14                  | 49.55             | 49.90                       | 66.00            | 16.10          | OP     |
| 2  | 0.45155       | 0.23                   | 0.15                  | 40.30             | 40.68                       | 56.85            | 16.17          | QP     |
| 3  | 0.91357       | 0.24                   | 0.14                  | 39.54             | 39.92                       | 56.00            | 16.08          | QP     |
| 4  | 1.100         | 0.25                   | 0.14                  | 37.50             | 37.89                       | 56.00            | 18.11          | QP     |
| 5  | 1.396         | 0.26                   | 0.14                  | 36.69             | 37.09                       | 56.00            | 18.91          | QP     |
| 6  | 9.913         | 0.44                   | 0.17                  | 38.04             | 38.65                       | 60.00            | 21.35          | QP     |
|    |               |                        |                       |                   |                             |                  |                |        |

Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.





Trace: (Discrete)

Site no :1#conduction

Data No :37

Dis./Ant. :\*\* 2012 ESH2-Z5 LINE

Limit :EN 55022 B

Env./Ins. :25.8\*C/69% Engineer :Berg \_Guo

EUT :LCD TV M/N:LE40FHDE3010

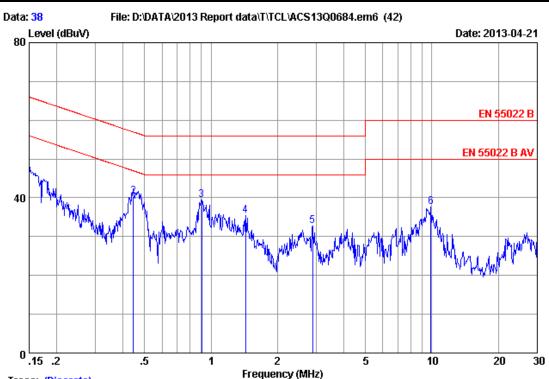
Power Rating :AC 120V/60Hz

Test Mode : Running "H" Pattern And 1KHz Playing

HDMI 1:1920\*1080@60Hz

| No | Freq<br>(MHz) | LISN<br>Factor<br>(dB) | Cable<br>Loss<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV) | Limits<br>(dBuV) | Margin<br>(dB) | Remark |
|----|---------------|------------------------|-----------------------|-------------------|-----------------------------|------------------|----------------|--------|
|    |               |                        |                       |                   |                             |                  |                |        |
| 1  | 0.15000       | 0.19                   | 0.14                  | 48.95             | 49.28                       | 66.00            | 16.72          | QP     |
| 2  | 0.44679       | 0.19                   | 0.15                  | 41.01             | 41.35                       | 56.93            | 15.58          | QP     |
| 3  | 0.94308       | 0.21                   | 0.14                  | 40.18             | 40.53                       | 56.00            | 15.47          | QP     |
| 4  | 1.388         | 0.22                   | 0.14                  | 34.44             | 34.80                       | 56.00            | 21.20          | QP     |
| 5  | 2.884         | 0.26                   | 0.14                  | 31.62             | 32.02                       | 56.00            | 23.98          | QP     |
| 6  | 9.654         | 0.44                   | 0.17                  | 37.19             | 37.80                       | 60.00            | 22.20          | QP     |
|    |               |                        |                       |                   |                             |                  |                |        |

Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.



Data No

:38

Trace: (Discrete)

Dis./Ant.

Site no :1#conduction

:\*\* 2012 ESH2-Z5 NEUTRAL

Limit :EN 55022 B

Env./Ins. :25.8\*C/69% Engineer :Berg \_Guo

EUT :LCD TV M/N:LE40FHDE3010

Power Rating :AC 120V/60Hz

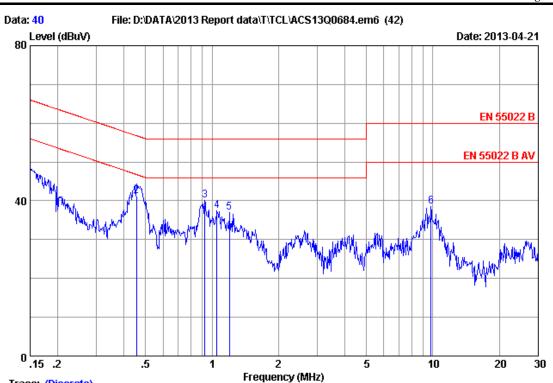
Test Mode : Running "H" Pattern And 1KHz Playing

HDMI 1:1920\*1080@60Hz

| No | Freq<br>(MHz) | LISN<br>Factor<br>(dB) | Cable<br>Loss<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV) | Limits<br>(dBuV) | Margin<br>(dB) | Remark |
|----|---------------|------------------------|-----------------------|-------------------|-----------------------------|------------------|----------------|--------|
| 1  | 0.15000       | 0.21                   | 0.14                  | 48.32             | 48.67                       | 66.00            | 17.33          | OP     |
| 2  | 0.44443       | 0.23                   | 0.15                  | 40.00             | 40.38                       | 56.98            | 16.60          | QP     |
| 3  | 0.90874       | 0.24                   | 0.14                  | 39.17             | 39.55                       | 56.00            | 16.45          | QP     |
| 4  | 1.433         | 0.26                   | 0.14                  | 35.04             | 35.44                       | 56.00            | 20.56          | QP     |
| 5  | 2.884         | 0.30                   | 0.14                  | 32.42             | 32.86                       | 56.00            | 23.14          | QP     |
| 6  | 9.913         | 0.44                   | 0.17                  | 36.95             | 37.56                       | 60.00            | 22.44          | QP     |
|    |               |                        |                       |                   |                             |                  |                |        |

Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.





Data No

:40

Trace: (Discrete)

Site no :1#conduction

Dis./Ant. :\*\* 2012 ESH2-Z5 LINE

Limit :EN 55022 B

Env./Ins. :25.8\*C/69% Engineer :Berg \_Guo

EUT :LCD TV M/N:LE40FHDE3010

Power Rating :AC 120V/60Hz

Test Mode :Running "H" Pattern And 1KHz Playing

HDMI 2:1920\*1080@60Hz

| No<br> | Freq<br>(MHz) | LISN<br>Factor<br>(dB) | Cable<br>Loss<br>(dB) | Reading<br>(dBuV) | Emissior<br>Level<br>(dBuV) | n<br>Limits<br>(dBuV) | Margin<br>(dB) | Remark |
|--------|---------------|------------------------|-----------------------|-------------------|-----------------------------|-----------------------|----------------|--------|
| 1      | 0.15000       | 0.19                   | 0.14                  | 48.15             | 48.48                       | 66.00                 | 17.52          | QP     |
| 2      | 0.45395       | 0.19                   | 0.15                  | 40.95             | 41.29                       | 56.80                 | 15.51          | QP     |
| 3      | 0.92821       | 0.21                   | 0.14                  | 39.80             | 40.15                       | 56.00                 | 15.85          | QP     |
| 4      | 1.054         | 0.21                   | 0.14                  | 37.19             | 37.54                       | 56.00                 | 18.46          | QP     |
| 5      | 1.197         | 0.22                   | 0.14                  | 36.68             | 37.04                       | 56.00                 | 18.96          | QP     |
| 6      | 9.809         | 0.44                   | 0.17                  | 37.93             | 38.54                       | 60.00                 | 21.46          | QP     |

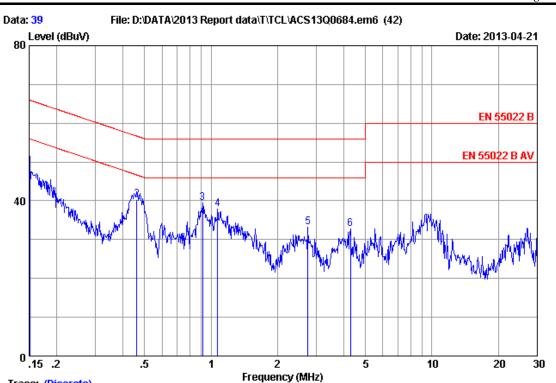
Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.

:39

Data No



FCC ID: W8ULE40E3010C1 Page 3-12



Trace: (Discrete)

Dis./Ant.

Site no :1#conduction

:\*\* 2012 ESH2-Z5 NEUTRAL

Limit :EN 55022 B

Env./Ins. :25.8\*C/69% Engineer :Berg \_Guo

EUT :LCD TV M/N:LE40FHDE3010

Power Rating :AC 120V/60Hz

Test Mode :Running "H" Pattern And 1KHz Playing

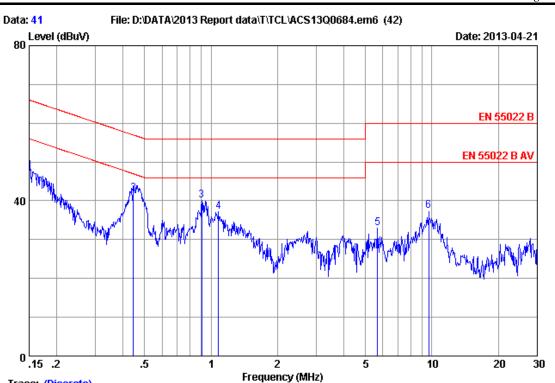
HDMI 2:1920\*1080@60Hz

| No | Freq<br>(MHz) | LISN<br>Factor<br>(dB) | Cable<br>Loss<br>(dB) | Reading<br>(dBuV) | Emissior<br>Level<br>(dBuV) | l<br>Limits<br>(dBuV) | Margin<br>(dB) | Remark |
|----|---------------|------------------------|-----------------------|-------------------|-----------------------------|-----------------------|----------------|--------|
|    |               |                        |                       |                   |                             |                       |                |        |
| 1  | 0.15160       | 0.21                   | 0.14                  | 48.44             | 48.79                       | 65.91                 | 17.12          | QP     |
| 2  | 0.46122       | 0.23                   | 0.15                  | 39.98             | 40.36                       | 56.67                 | 16.31          | QP     |
| 3  | 0.91357       | 0.24                   | 0.14                  | 39.17             | 39.55                       | 56.00                 | 16.45          | QP     |
| 4  | 1.071         | 0.24                   | 0.14                  | 37.53             | 37.91                       | 56.00                 | 18.09          | QP     |
| 5  | 2.750         | 0.30                   | 0.14                  | 32.78             | 33.22                       | 56.00                 | 22.78          | QP     |
| 6  | 4.269         | 0.33                   | 0.14                  | 32.33             | 32.80                       | 56.00                 | 23.20          | QP     |
| ь  | 4.269         | 0.33                   | U.14                  | 32.33             | 32.80                       | 56.00                 | 23.20          | QP     |

Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.

<sup>2.</sup>If the average limit is met when useing a quasi-peak detector. the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.





Trace: (Discrete)

Site no :1#conduction

Data No :4:

Dis./Ant. :\*\* 2012 ESH2-Z5 LINE

Limit :EN 55022 B

Env./Ins. :25.8\*C/69% Engineer :Berg \_Guo

EUT :LCD TV M/N:LE40FHDE3010

Power Rating :AC 120V/60Hz

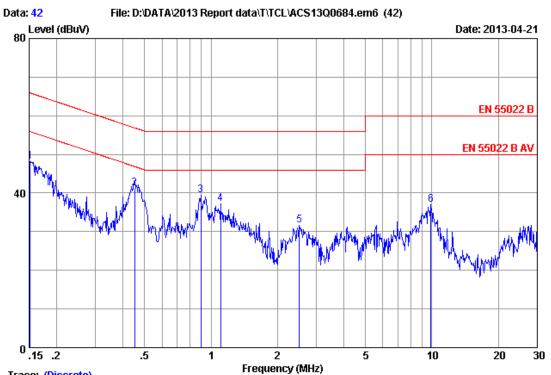
Test Mode : Running "H" Pattern And 1KHz Playing

HDMI 3:1920\*1080@60Hz

|    |         | LISN   | Cable |         | Emission | ı      |        |        |
|----|---------|--------|-------|---------|----------|--------|--------|--------|
| No | Freq    | Factor | Loss  | Reading | Level    | Limits | Margin | Remark |
|    | (MHz)   | (dB)   | (dB)  | (dBuV)  | (dBuV)   | (dBuV) | (dB)   |        |
|    |         |        |       |         |          |        |        |        |
| 1  | 0.15000 | 0.19   | 0.14  | 50.10   | 50.43    | 66.00  | 15.57  | QP     |
| 2  | 0.44443 | 0.19   | 0.15  | 41.64   | 41.98    | 56.98  | 15.00  | QP     |
| 3  | 0.90874 | 0.21   | 0.14  | 39.74   | 40.09    | 56.00  | 15.91  | QP     |
| 4  | 1.082   | 0.21   | 0.14  | 36.79   | 37.14    | 56.00  | 18.86  | QP     |
| 5  | 5.683   | 0.33   | 0.15  | 32.48   | 32.96    | 60.00  | 27.04  | QP     |
| 6  | 9.654   | 0.44   | 0.17  | 36.73   | 37.34    | 60.00  | 22.66  | QP     |
|    |         |        |       |         |          |        |        |        |

Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.





Data No

Trace: (Discrete)

Site no :1#conduction

Dis./Ant. :\*\* 2012 ESH2-Z5 NEUTRAL

:EN 55022 B Limit

Engineer :Berg \_Guo Env./Ins. :25.8\*C/69%

M/N:LE40FHDE3010 EUT :LCD TV

Power Rating :AC 120V/60Hz

Test Mode : Running "H" Pattern And 1KHz Playing

HDMI 3:1920\*1080@60Hz

| No | Freq<br>(MHz) | LISN<br>Factor<br>(dB) | Cable<br>Loss<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV) | Limits<br>(dBuV) | Margin<br>(dB) | Remark |
|----|---------------|------------------------|-----------------------|-------------------|-----------------------------|------------------|----------------|--------|
| 1  | 0.15160       | 0.21                   | 0.14                  | 47.80             | 48.15                       | 65.91            | 17.76          | QP     |
| 2  | 0.45155       | 0.23                   | 0.15                  | 40.75             | 41.13                       | 56.85            | 15.72          | QP     |
| 3  | 0.89917       | 0.24                   | 0.14                  | 39.09             | 39.47                       | 56.00            | 16.53          | QP     |
| 4  | 1.106         | 0.25                   | 0.14                  | 36.78             | 37.17                       | 56.00            | 18.83          | QP     |
| 5  | 2.513         | 0.29                   | 0.14                  | 31.14             | 31.57                       | 56.00            | 24.43          | QP     |
| 6  | 9.913         | 0.44                   | 0.17                  | 36.48             | 37.09                       | 60.00            | 22.91          | QP     |

Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.



# 4. RADIATED EMISSION MEASUREMENT

# 4.1. Test Equipment

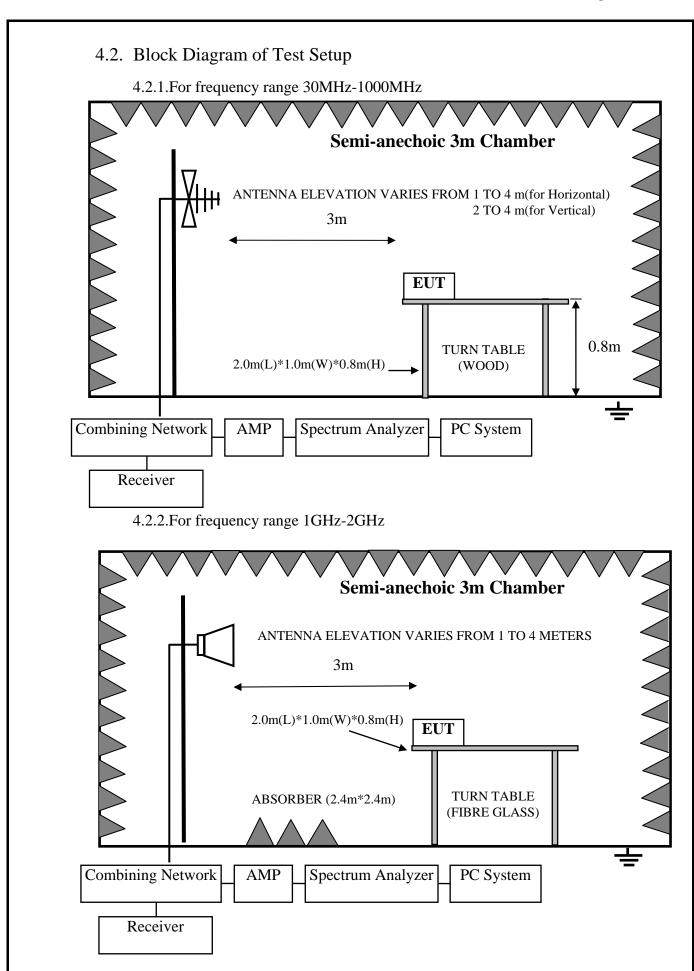
### 4.1.1.For frequency range 30MHz~1000MHz

| _    |                |                 |           |                 |            |               |
|------|----------------|-----------------|-----------|-----------------|------------|---------------|
| Item | Equipment      | Manufacturer    | Model No. | Serial No.      | Last Cal.  | Cal. Interval |
| 1    | 3#Chamber      | AUDIX           | N/A       | N/A             | Nov.24,12  | 1 Year        |
| 2    | EMI Spectrum   | Agilent         | E4407B    | MY41440292      | May.08, 12 | 1 Year        |
| 3    | Test Receiver  | Rohde & Schwarz | ESVS10    | 834468/011      | May.08, 12 | 1 Year        |
| 4    | Amplifier      | HP              | 8447D     | 2648A04738      | May.08, 12 | 1 Year        |
| 5    | Bilog Antenna  | Schaffner       | CBL6111C  | 2598            | Dec.26, 10 | 2.0 Year      |
| 6    | RF Cable       | MIYAZAKI        | CFD400-NL | 3# Chamber No.1 | May.08, 12 | 1 Year        |
| 7    | Coaxial Switch | Anritsu         | MP59B     | M74389          | May.08, 12 | 1 Year        |

### 4.1.2.For frequency range 1GHz~2GHz

| Item | Equipment         | Manufacturer | Model No.   | Serial No. | Last Cal.   | Cal. Interval |
|------|-------------------|--------------|-------------|------------|-------------|---------------|
| 1    | Spectrum Analyzer | Agilent      | E4407B      | MY41440292 | May.08, 12  | 1 Year        |
| 2    | Horn Antenna      | EMCO         | 3115        | 9510-4580  | June.05, 12 | 1 Year        |
| 3    | Amplifier         | Agilent      | 8449B       | 3008A00863 | May.08, 12  | 1 Year        |
| 4    | RF Cable          | Hubersuhner  | SUCOFLEX106 | 77980/6    | May.08, 12  | 1 Year        |
| 5    | RF Cable          | Hubersuhner  | SUCOFLEX106 | 77977/6    | May.08, 12  | 1 Year        |







#### 4.3. Radiated Emission Limit

| Frequency  | Distance | Field Strengths Limits |
|------------|----------|------------------------|
| MHz        | (Meters) | $dB(\mu V)/m$          |
| 30 ~ 88    | 3        | 40.0                   |
| 88 ~ 216   | 3        | 43.5                   |
| 216 ~ 960  | 3        | 46.0                   |
| 960 ~ 1000 | 3        | 54.0                   |
| Above 1000 | 3        | 74(Peak)54(Average)    |

Remark: (1) Emission level = Antenna Factor + Cable Loss + Reading Emission level = Antenna Factor - Amp Factor + Cable Loss + Reading (above 1000MHz)

- (2) The smaller limit shall apply at the cross point between two frequency bands.
- (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

#### 4.4.EUT Configuration on Test

The configurations of EUT are listed in Section 3.4

#### 4.5. Operating Condition of EUT

Same as Conducted Emission test that is listed in Section 3.5. except the test set up replaced by Section 4.2.

#### 4.6.Test Procedure

The EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic chamber. An antenna was located 3m from the EUT on an adjustable mast. A pre-scan was first performed in order to find prominent radiated emissions. For final emissions measurements at each frequency of interest, the EUT were rotated and the antenna height was varied between 1m and 4m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.4: 2009 on Radiated Emission test.

The bandwidth of the EMI test receiver (R&S ESVS10) is set at 120kHz for frequency range from 30MHz to 1000 MHz.

The bandwidth of the Spectrum's RBW is set at 1MHz and VBW is set at 3MHz for peak emissions measurement above 1GHz and 1MHz RBW, 10Hz VBW for average emissions measure above 1GHz.



#### 4.7. Radiated Disturbance Test Results

**PASS.** (All emissions not reported below are too low against the prescribed limits.)

EUT: LCD TV Model No. : LE40FHDE3010

#### For frequency range 30MHz~1000MHz

The EUT with the following test modes were tested and selected to read Q.P values, all the test results are listed in next pages.

Test Date: Apr. 23, 2013 Temperature: 24°C Humidity: 56%

The details of test modes are as follows:

| No.  | Test Mode | Input Port | Resolution &    | Reference Test Data<br>No. |          |  |
|------|-----------|------------|-----------------|----------------------------|----------|--|
|      |           |            | Frequency       | Horizontal                 | Vertical |  |
| 1.   |           |            | 640*480 @60Hz   | # 35                       | # 36     |  |
| 2.   |           | VGA        | 1024*768 @ 60Hz | # 34                       | # 33     |  |
| 3. 💥 | PC Mode   |            | 1920*1080@60Hz  | # 31                       | # 32     |  |
| 4.   | PC Wiode  | HDMI 1     | 1920*1080@60Hz  | # 41                       | # 42     |  |
| 5.   |           | HDMI 2     | 1920*1080@60Hz  | # 40                       | # 39     |  |
| 6.   |           | HDMI 3     | 1920*1080@60Hz  | # 37                       | # 38     |  |

<sup>(\*</sup> Worst test mode)

#### For frequency range 1GHz~2GHz

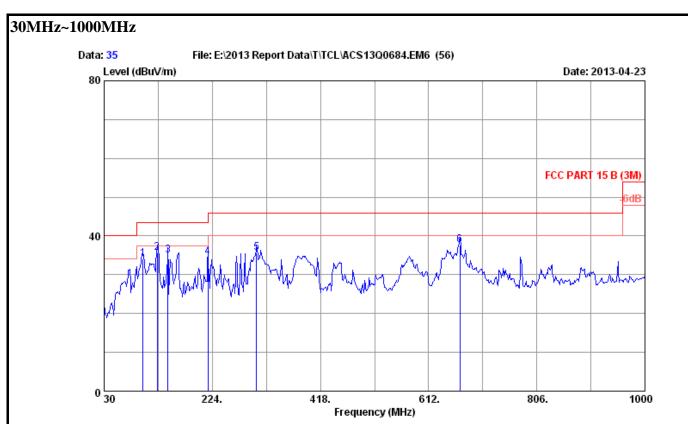
The EUT with below test mode were measured within Anechoic Chamber and the test results listed in next pages

Note: For all the emissions above 1GHz, the peak measured level comply with peak limit, so the average level were deemed to comply with average limit.

Test Date: Apr.23,2013 Temperature: 24°C Humidity: 56%

| NO. | Test Mode | Desclution & Fraguency | Reference Te | est Data No. |
|-----|-----------|------------------------|--------------|--------------|
| NO. | Test Mode | Resolution & Frequency | Horizontal   | Vertical     |
| 1.  | VGA       | 1920*1080 @60Hz        | # 43         | # 44         |
| 2.  | HDMI 1    | 1920*1080 @60Hz        | # 50         | # 49         |
| 3.  | HDMI 2    | 1920*1080 @60Hz        | # 47         | # 48         |
| 4.  | HDMI 3    | 1920*1080 @60Hz        | # 46         | # 45         |





Dis. / Ant. : 3m 9168-429 Ant. pol. : HORIZONTAL

Limit : FCC PART 15 B (3M)

Env. / Ins. : 24\*C/65% Engineer : Victory-Cao

EUT : LCD TV M/N:LE40FHDE3010

Power rating : AC 120V/60Hz

Test Mode : Running "H" Pattern And 1KHz Playing

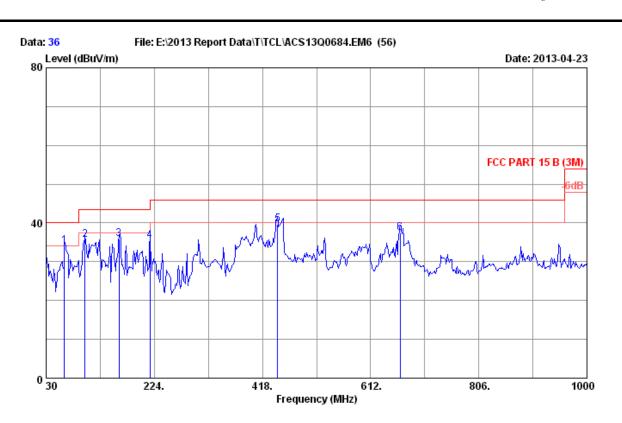
VGA:640\*480@60Hz

| _ | No. | Freq.<br>(MHz) | Ant.<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Remark |
|---|-----|----------------|--------------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
|   | 1   | 99.840         | 10.14                    | 0.85                  | 23.05             | 34.04                         | 43.50              | 9.46           | QP     |
|   | 2   | 125.060        | 12.52                    | 0.90                  | 22.28             | 35.70                         | 43.50              | 7.80           | QP     |
|   | 3   | 144.460        | 13.80                    | 0.94                  | 20.30             | 35.04                         | 43.50              | 8.46           | QP     |
|   | 4   | 216.240        | 10.43                    | 1.11                  | 22.95             | 34.49                         | 46.00              | 11.51          | QP     |
|   | 5   | 303.540        | 12.89                    | 1.29                  | 21.57             | 35.75                         | 46.00              | 10.25          | QP     |
|   | 6   | 668.260        | 19.32                    | 2.32                  | 16.11             | 37.75                         | 46.00              | 8.25           | QP     |
|   |     |                |                          |                       |                   |                               |                    |                |        |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

<sup>2.</sup> The emission levels that are 20dB below the official limit are not reported.





Dis. / Ant. : 3m 9168-429 Ant. pol. : VERTICAL

Limit : FCC PART 15 B (3M)

Env. / Ins. : 24\*C/65% Engineer : Victory-Cao

EUT : LCD TV M/N:LE40FHDE3010

Power rating : AC 120V/60Hz

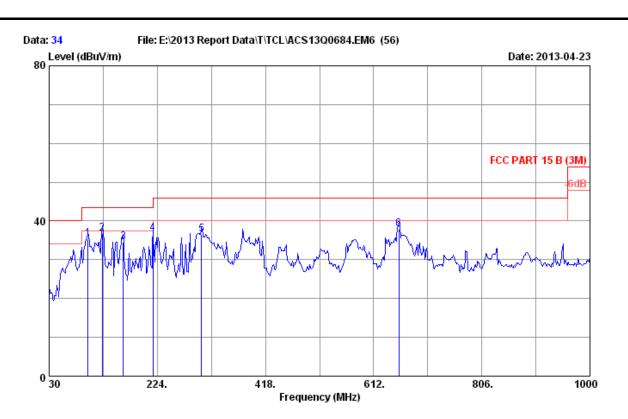
Test Mode : Running "H" Pattern And 1KHz Playing

VGA:640\*480@60Hz

| No. | Freq.<br>(MHz) | Ant.<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|----------------|--------------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1   | 62.980         | 12.17                    | 0.69                  | 21.26             | 34.12                         | 40.00              | 5.88           | QP     |
| 2   | 99.840         | 10.14                    | 0.85                  | 24.77             | 35.76                         | 43.50              | 7.74           | QP     |
| 3   | 160.950        | 14.05                    | 0.99                  | 20.88             | 35.92                         | 43.50              | 7.58           | QP     |
| 4   | 216.240        | 10.43                    | 1.11                  | 23.98             | 35.52                         | 46.00              | 10.48          | QP     |
| 5   | 445.160        | 15.86                    | 1.68                  | 22.05             | 39.59                         | 46.00              | 6.41           | QP     |
| 6   | 665.350        | 19.28                    | 2.32                  | 15.86             | 37.46                         | 46.00              | 8.54           | QP     |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.





Dis. / Ant. : 3m 9168-429 Ant. pol. : HORIZONTAL

Limit : FCC PART 15 B (3M)

Env. / Ins. : 24\*C/65% Engineer : Victory-Cao

EUT : LCD TV M/N:LE40FHDE3010

Power rating : AC 120V/60Hz

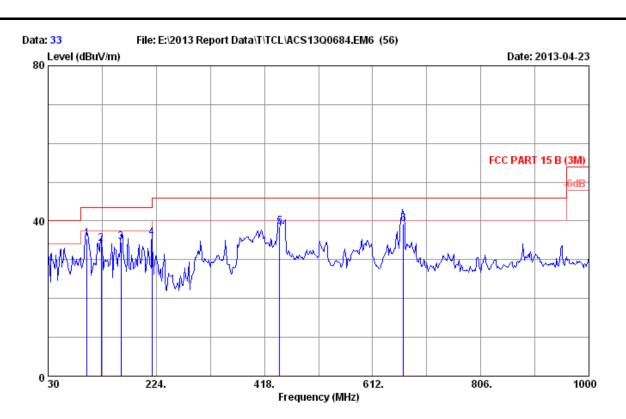
Test Mode : Running "H" Pattern And 1KHz Playing

VGA:1024\*768@60Hz

| No | . Freq. | Ant.<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Remark |
|----|---------|--------------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1  | 99.840  | 10.14                    | 0.85                  | 24.53             | 35.52                         | 43.50              | 7.98           | QP     |
| 2  | 125.060 | 12.52                    | 0.90                  | 23.42             | 36.84                         | 43.50              | 6.66           | QP     |
| 3  | 162.890 | 13.86                    | 0.99                  | 19.70             | 34.55                         | 43.50              | 8.95           | QP     |
| 4  | 216.240 | 10.43                    | 1.11                  | 25.12             | 36.66                         | 46.00              | 9.34           | QP     |
| 5  | 303.540 | 12.89                    | 1.29                  | 22.28             | 36.46                         | 46.00              | 9.54           | QP     |
| 6  | 657.590 | 19.19                    | 2.30                  | 16.47             | 37.96                         | 46.00              | 8.04           | QP     |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.





Dis. / Ant. : 3m 9168-429 Ant. pol. : VERTICAL

Limit : FCC PART 15 B (3M)

Env. / Ins. : 24\*C/65% Engineer : Victory-Cao

EUT : LCD TV M/N:LE40FHDE3010

Power rating : AC 120V/60Hz

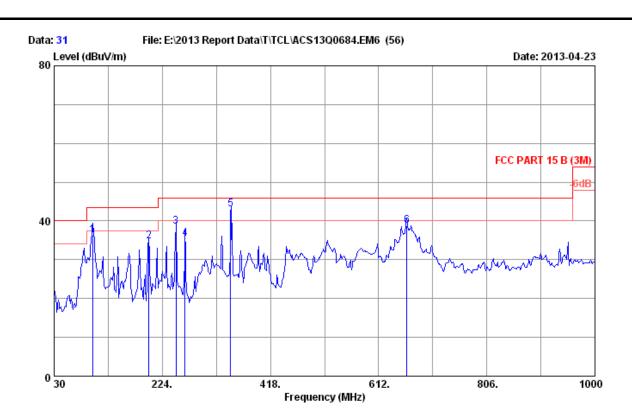
Test Mode : Running "H" Pattern And 1KHz Playing

VGA:1024\*768@60Hz

| _ | No. | Freq.<br>(MHz) | Ant.<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Remark |
|---|-----|----------------|--------------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
|   | 1   | 99.840         | 10.14                    | 0.85                  | 24.40             | 35.39                         | 43.50              | 8.11           | QP     |
|   | 2   | 125.060        | 12.52                    | 0.90                  | 20.76             | 34.18                         | 43.50              | 9.32           | QP     |
|   | 3   | 160.950        | 14.05                    | 0.99                  | 19.52             | 34.56                         | 43.50              | 8.94           | QP     |
|   | 4   | 216.240        | 10.43                    | 1.11                  | 24.06             | 35.60                         | 46.00              | 10.40          | QP     |
|   | 5   | 445.160        | 15.86                    | 1.68                  | 21.01             | 38.55                         | 46.00              | 7.45           | QP     |
|   | 6   | 667.580        | 19.31                    | 2.32                  | 17.51             | 39.14                         | 46.00              | 6.86           | QP     |
|   |     |                |                          |                       |                   |                               |                    |                |        |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.





Dis. / Ant. : 3m 9168-429 Ant. pol. : HORIZONTAL

Limit : FCC PART 15 B (3M)

Env. / Ins. : 24\*C/65% Engineer : Victory-Cao

EUT : LCD TV M/N:LE40FHDE3010

Power rating : AC 120V/60Hz

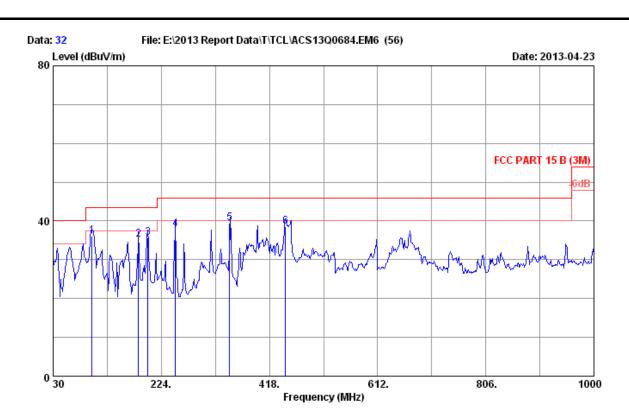
Test Mode : Running "H" Pattern And 1KHz Playing

VGA:1920\*1080@60Hz

| N: | o. Freq.<br>(MHz) | Ant.<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Remark |
|----|-------------------|--------------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1  | 99.025            | 10.08                    | 0.85                  | 25.50             | 36.43                         | 43.50              | 7.07           | QP     |
| 2  | 199.750           | 9.91                     | 1.06                  | 23.75             | 34.72                         | 43.50              | 8.78           | QP     |
| 3  | 248.250           | 11.55                    | 1.16                  | 25.87             | 38.58                         | 46.00              | 7.42           | QP     |
| 4  | 264.740           | 11.92                    | 1.19                  | 22.32             | 35.43                         | 46.00              | 10.57          | QP     |
| 5  | 346.500           | 13.77                    | 1.41                  | 27.80             | 42.98                         | 46.00              | 3.02           | QP     |
| 6  | 662.440           | 19.25                    | 2.30                  | 17.31             | 38.86                         | 46.00              | 7.14           | QP     |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.





Dis. / Ant. : 3m 9168-429 Ant. pol. : VERTICAL

Limit : FCC PART 15 B (3M)

Env. / Ins. : 24\*C/65% Engineer : Victory-Cao

EUT : LCD TV M/N:LE40FHDE3010

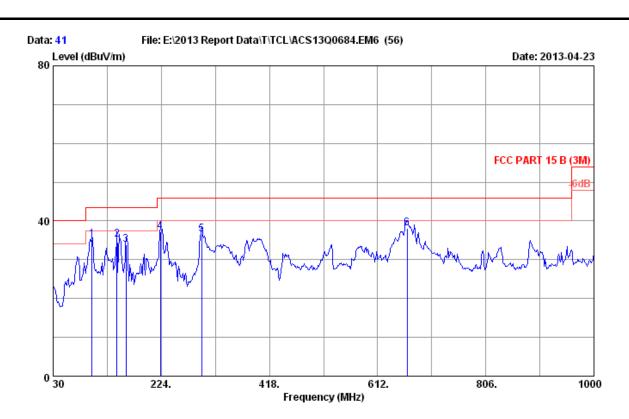
Power rating : AC 120V/60Hz

Test Mode : Running "H" Pattern And 1KHz Playing

VGA:1920\*1080@60Hz

| No. | Freq.<br>(MHz) | Ant.<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|----------------|--------------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1   | 99.840         | 10.14                    | 0.85                  | 25.15             | 36.14                         | 43.50              | 7.36           | QP     |
| 2   | 183.260        | 11.29                    | 1.03                  | 22.80             | 35.12                         | 43.50              | 8.38           | QP     |
| 3   | 199.750        | 9.91                     | 1.06                  | 24.59             | 35.56                         | 43.50              | 7.94           | QP     |
| 4   | 249.220        | 11.56                    | 1.16                  | 25.22             | 37.94                         | 46.00              | 8.06           | QP     |
| 5   | 346.500        | 13.77                    | 1.41                  | 24.20             | 39.38                         | 46.00              | 6.62           | QP     |
| 6   | 447.100        | 15.90                    | 1.69                  | 21.07             | 38.66                         | 46.00              | 7.34           | QP     |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.



Dis. / Ant. : 3m 9168-429 Ant. pol. : HORIZONTAL

Limit : FCC PART 15 B (3M)

Env. / Ins. : 24\*C/65% Engineer : Victory-Cao

EUT : LCD TV M/N:LE40FHDE3010

Power rating : AC 120V/60Hz

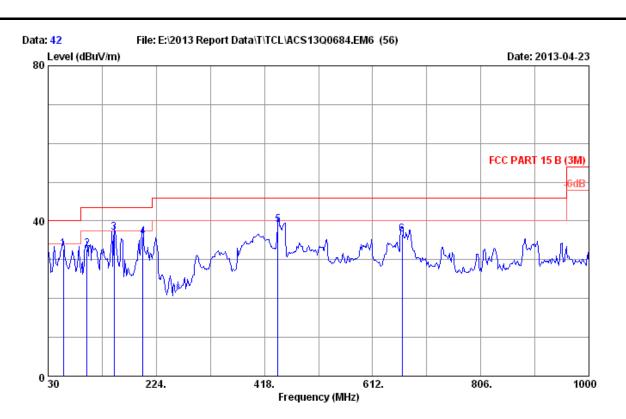
Test Mode : Running "H" Pattern And 1KHz Playing

HDMI1:1920\*1080@60Hz

| No. | Freq.<br>(MHz) | Ant.<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|----------------|--------------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1   | 99.840         | 10.14                    | 0.85                  | 24.13             | 35.12                         | 43.50              | 8.38           | QP     |
| 2   | 144.460        | 13.80                    | 0.94                  | 20.56             | 35.30                         | 43.50              | 8.20           | QP     |
| 3   | 160.950        | 14.05                    | 0.99                  | 18.74             | 33.78                         | 43.50              | 9.72           | QP     |
| 4   | 222.060        | 10.76                    | 1.11                  | 25.24             | 37.11                         | 46.00              | 8.89           | QP     |
| 5   | 296.750        | 12.73                    | 1.27                  | 22.47             | 36.47                         | 46.00              | 9.53           | QP     |
| 6   | 665.350        | 19.28                    | 2.32                  | 16.56             | 38.16                         | 46.00              | 7.84           | QP     |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

<sup>2.</sup> The emission levels that are 20dB below the official limit are not reported.



: 3m Chamber Data no. : 42 Site no. Ant. pol. : VERTICAL

Dis. / Ant. : 3m 9168-429 : FCC PART 15 B (3M)

Env. / Ins. : 24\*C/65% Engineer : Victory-Cao

EUT : LCD TV M/N:LE40FHDE3010

Power rating : AC 120V/60Hz

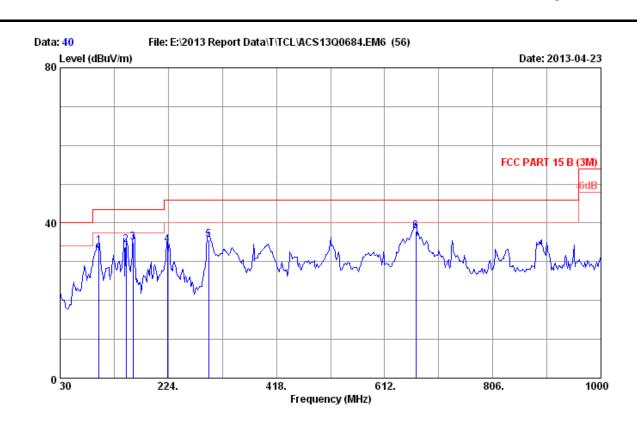
: Running "H" Pattern And 1KHz Playing Test Mode

HDMI1:1920\*1080@60Hz

| No. | Freq.<br>(MHz) | Ant.<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|----------------|--------------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1   | 57.160         | 12.97                    | 0.66                  | 19.11             | 32.74                         | 40.00              | 7.26           | QP     |
| 2   | 99.840         | 10.14                    | 0.85                  | 21.81             | 32.80                         | 43.50              | 10.70          | QP     |
| 3   | 148.340        | 14.05                    | 0.96                  | 22.08             | 37.09                         | 43.50              | 6.41           | QP     |
| 4   | 199.750        | 9.91                     | 1.06                  | 24.88             | 35.85                         | 43.50              | 7.65           | QP     |
| 5   | 442.250        | 15.79                    | 1.68                  | 21.51             | 38.98                         | 46.00              | 7.02           | QP     |
| 6   | 665.350        | 19.28                    | 2.32                  | 14.90             | 36.50                         | 46.00              | 9.50           | QP     |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.





Dis. / Ant. : 3m 9168-429 Ant. pol. : HORIZONTAL

Limit : FCC PART 15 B (3M)

Env. / Ins. : 24\*C/65% Engineer : Victory-Cao

EUT : LCD TV M/N:LE40FHDE3010

Power rating : AC 120V/60Hz

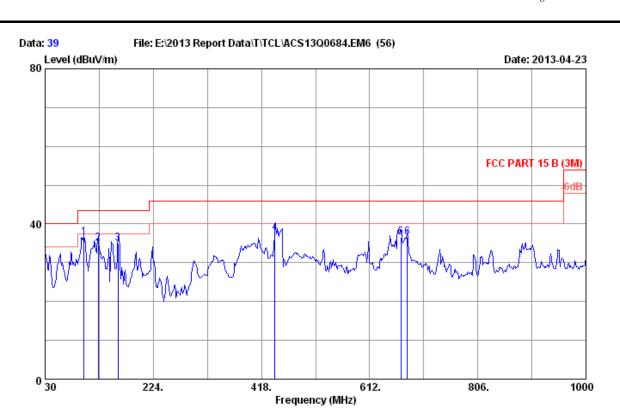
Test Mode : Running "H" Pattern And 1KHz Playing

HDMI2:1920\*1080@60Hz

| No. | Freq.<br>(MHz) | Ant.<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|----------------|--------------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1   | 99.840         | 10.14                    | 0.85                  | 23.01             | 34.00                         | 43.50              | 9.50           | QP     |
| 2   | 148.340        | 14.05                    | 0.96                  | 19.20             | 34.21                         | 43.50              | 9.29           | QP     |
| 3   | 160.950        | 14.05                    | 0.99                  | 19.91             | 34.95                         | 43.50              | 8.55           | QP     |
| 4   | 222.060        | 10.76                    | 1.11                  | 22.47             | 34.34                         | 46.00              | 11.66          | QP     |
| 5   | 296.750        | 12.73                    | 1.27                  | 21.66             | 35.66                         | 46.00              | 10.34          | QP     |
| 6   | 668.260        | 19.32                    | 2.32                  | 16.34             | 37.98                         | 46.00              | 8.02           | QP     |
| _   |                |                          |                       |                   |                               |                    |                | _      |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.





Site no. : 3m Chamber Data no. : 39
Dis. / Ant. : 3m 9168-429 Ant. pol. : VERTICAL

Limit : FCC PART 15 B (3M)

Env. / Ins. : 24\*C/65% Engineer : Victory-Cao

EUT : LCD TV M/N:LE40FHDE3010

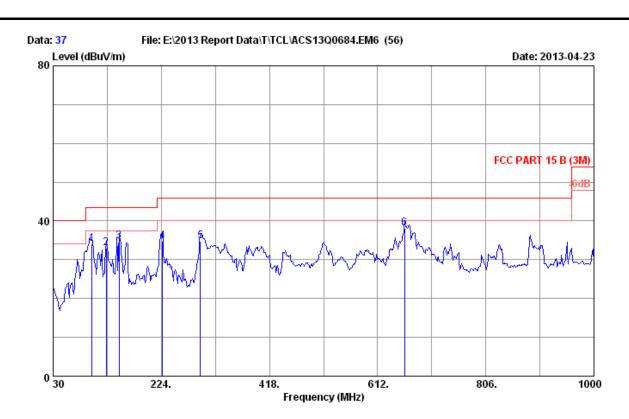
Power rating : AC 120V/60Hz

Test Mode : Running "H" Pattern And 1KHz Playing

HDMI2:1920\*1080@60Hz

| No. | Freq.<br>(MHz) | Ant.<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|----------------|--------------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1   | 99.840         | 10.14                    | 0.85                  | 25.59             | 36.58                         | 43.50              | 6.92           | QP     |
| 2   | 125.060        | 12.52                    | 0.90                  | 21.59             | 35.01                         | 43.50              | 8.49           | QP     |
| 3   | 160.950        | 14.05                    | 0.99                  | 19.85             | 34.89                         | 43.50              | 8.61           | QP     |
| 4   | 442.250        | 15.79                    | 1.68                  | 20.14             | 37.61                         | 46.00              | 8.39           | QP     |
| 5   | 668.260        | 19.32                    | 2.32                  | 14.80             | 36.44                         | 46.00              | 9.56           | QP     |
| 6   | 679.900        | 19.45                    | 2.36                  | 14.72             | 36.53                         | 46.00              | 9.47           | QP     |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.



Dis. / Ant. : 3m 9168-429 Ant. pol. : HORIZONTAL

Limit : FCC PART 15 B (3M)

Env. / Ins. : 24\*C/65% Engineer : Victory-Cao

EUT : LCD TV M/N:LE40FHDE3010

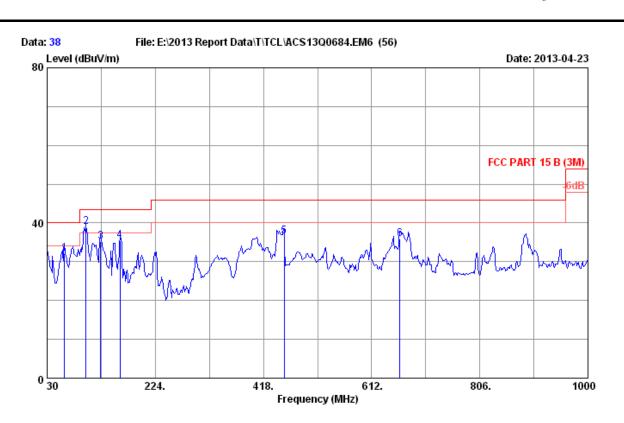
Power rating : AC 120V/60Hz

Test Mode : Running "H" Pattern And 1KHz Playing

HDMI3:1920\*1080@60Hz

| No. | Freq.<br>(MHz) | Ant.<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|----------------|--------------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1   | 99.840         | 10.14                    | 0.85                  | 23.11             | 34.10                         | 43.50              | 9.40           | QP     |
| 2   | 125.060        | 12.52                    | 0.90                  | 19.47             | 32.89                         | 43.50              | 10.61          | QP     |
| 3   | 148.340        | 14.05                    | 0.96                  | 19.75             | 34.76                         | 43.50              | 8.74           | QP     |
| 4   | 225.940        | 10.98                    | 1.12                  | 22.73             | 34.83                         | 46.00              | 11.17          | QP     |
| 5   | 293.840        | 12.66                    | 1.27                  | 20.87             | 34.80                         | 46.00              | 11.20          | QP     |
| 6   | 660.500        | 19.23                    | 2.30                  | 16.52             | 38.05                         | 46.00              | 7.95           | QP     |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.



Site no. : 3m Chamber Data no. : 38
Dis. / Ant. : 3m 9168-429 Ant. pol. : VERTICAL

Limit : FCC PART 15 B (3M)

Env. / Ins. : 24\*C/65% Engineer : Victory-Cao

EUT : LCD TV M/N:LE40FHDE3010

Power rating : AC 120V/60Hz

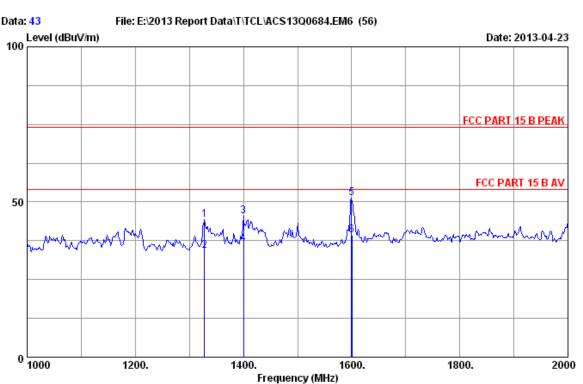
Test Mode : Running "H" Pattern And 1KHz Playing

HDMI3:1920\*1080@60Hz

| No. | Freq.<br>(MHz) | Ant.<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|----------------|--------------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1   | 61.040         | 12.55                    | 0.66                  | 18.83             | 32.04                         | 40.00              | 7.96           | QP     |
| 2   | 99.840         | 10.14                    | 0.85                  | 27.93             | 38.92                         | 43.50              | 4.58           | QP     |
| 3   | 126.030        | 12.57                    | 0.91                  | 21.69             | 35.17                         | 43.50              | 8.33           | QP     |
| 4   | 160.950        | 14.05                    | 0.99                  | 20.46             | 35.50                         | 43.50              | 8.00           | QP     |
| 5   | 454.860        | 16.01                    | 1.71                  | 18.89             | 36.61                         | 46.00              | 9.39           | QP     |
| 6   | 662.440        | 19.25                    | 2.30                  | 14.40             | 35.95                         | 46.00              | 10.05          | QP     |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.





Dis. / Ant. : 3m 2011 3115 9607-4877 Ant. pol. : HORIZONTAL

Limit : FCC PART 15 B PEAK

Env. / Ins. : 24\*C/56% Engineer : Victory-Cao

EUT : LCD TV M/N:LE40FHDE3010

Power Rating : AC 120V/60Hz

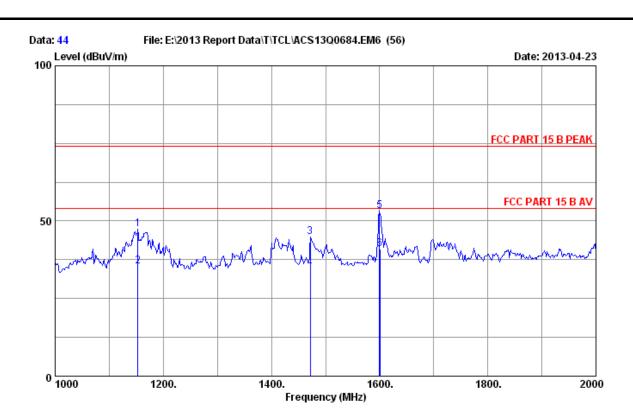
Test Mode : Running "H" Pattern And 1KHz Playing

VGA:1920\*1080@60Hz

|     |          | Ant.   | Cable | AMP    |         | Emission | n        |        |         |
|-----|----------|--------|-------|--------|---------|----------|----------|--------|---------|
| No. | Freq.    | Factor | Loss  | factor | Reading | Level    | Limits   | Margin | Remark  |
|     | (MHz)    | (dB/m) | (dB)  | (dB)   | (dBuV)  | (dBuV/m) | (dBuV/m) | (dB)   |         |
|     |          |        |       |        |         |          |          |        |         |
| 1   | 1328.000 | 24.77  | 1.00  | 36.14  | 54.77   | 44.40    | 74.00    | 29.60  | Peak    |
| 2   | 1328.224 | 24.77  | 1.00  | 36.14  | 44.72   | 34.35    | 54.00    | 19.65  | Average |
| 3   | 1400.000 | 25.19  | 1.01  | 36.06  | 55.40   | 45.54    | 74.00    | 28.46  | Peak    |
| 4   | 1400.274 | 25.19  | 1.01  | 36.06  | 46.48   | 36.62    | 54.00    | 17.38  | Average |
| 5   | 1600.000 | 25.98  | 1.04  | 35.84  | 60.17   | 51.35    | 74.00    | 22.65  | Peak    |
| 6   | 1600.478 | 25.98  | 1.04  | 35.84  | 48.18   | 39.36    | 54.00    | 14.64  | Average |
|     |          |        |       |        |         |          |          |        |         |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor





Dis. / Ant. : 3m 2011 3115 9607-4877 Ant. pol. : VERTICAL

Limit : FCC PART 15 B PEAK

Env. / Ins. : 24\*C/56% Engineer : Victory-Cao

EUT : LCD TV M/N:LE40FHDE3010

Power Rating : AC 120V/60Hz

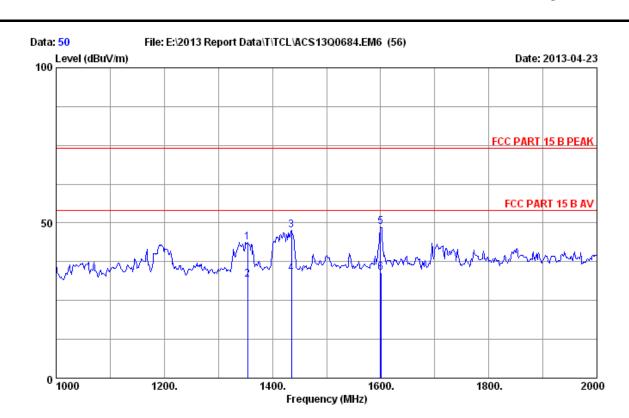
Test Mode : Running "H" Pattern And 1KHz Playing

VGA:1920\*1080@60Hz

| No. | Freq.<br>(MHz) | Ant.<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | AMP<br>factor<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limits | Margin<br>(dB) | Remark  |
|-----|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------|----------------|---------|
| 1   | 1153.000       | 23.94                    | 0.97                  | 36.33                 | 58.85             | 47.43                         | 74.00  | 26.57          | Peak    |
| 2   | 1153.225       | 23.94                    | 0.97                  | 36.33                 | 46.87             | 35.45                         | 54.00  | 18.55          | Average |
| 3   | 1472.000       | 25.52                    | 1.02                  | 35.98                 | 54.35             | 44.91                         | 74.00  | 29.09          | Peak    |
| 4   | 1472.158       | 25.52                    | 1.02                  | 35.98                 | 44.37             | 34.93                         | 54.00  | 19.07          | Average |
| 5   | 1600.000       | 25.98                    | 1.04                  | 35.84                 | 61.89             | 53.07                         | 74.00  | 20.93          | Peak    |
| 6   | 1600.374       | 25.98                    | 1.04                  | 35.84                 | 49.86             | 41.04                         | 54.00  | 12.96          | Average |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor





Dis. / Ant. : 3m 2011 3115 9607-4877 Ant. pol. : HORIZONTAL

Limit : FCC PART 15 B PEAK

Env. / Ins. : 24\*C/56% Engineer : Victory-Cao

EUT : LCD TV M/N:LE40FHDE3010

Power Rating : AC 120V/60Hz

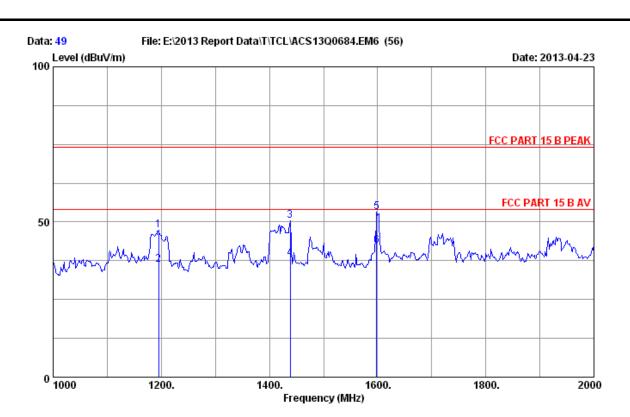
Test Mode : Running "H" Pattern And 1KHz Playing

HDMI1:1920\*1080@60Hz

| No. | Freq.<br>(MHz) | Ant.<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | AMP<br>factor<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limits | Margin<br>(dB) | Remark  |
|-----|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------|----------------|---------|
| 1   | 1354.000       | 24.94                    | 1.00                  | 36.12                 | 53.98             | 43.80                         | 74.00  | 30.20          | Peak    |
| 2   | 1354.185       | 24.94                    | 1.00                  | 36.12                 | 41.92             | 31.74                         | 54.00  | 22.26          | Average |
| 3   | 1435.000       | 25.35                    | 1.01                  | 36.03                 | 57.36             | 47.69                         | 74.00  | 26.31          | Peak    |
| 4   | 1435.310       | 25.35                    | 1.01                  | 36.03                 | 43.37             | 33.70                         | 54.00  | 20.30          | Average |
| 5   | 1600.000       | 25.98                    | 1.04                  | 35.84                 | 57.62             | 48.80                         | 74.00  | 25.20          | Peak    |
| 6   | 1600.187       | 25.98                    | 1.04                  | 35.84                 | 42.67             | 33.85                         | 54.00  | 20.15          | Average |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor





Dis. / Ant. : 3m 2011 3115 9607-4877 Ant. pol. : VERTICAL

Limit : FCC PART 15 B PEAK

Env. / Ins. : 24\*C/56% Engineer : Victory-Cao

EUT : LCD TV M/N:LE40FHDE3010

Power Rating : AC 120V/60Hz

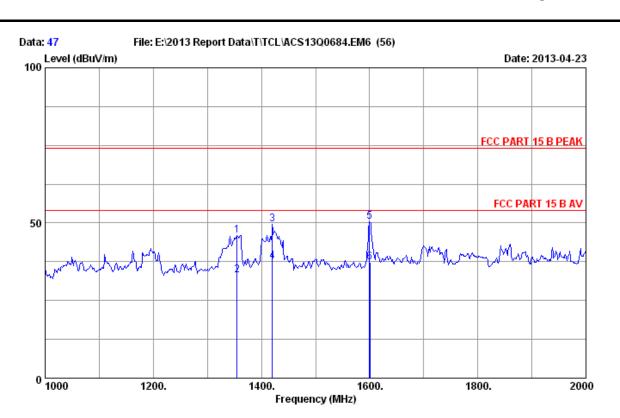
Test Mode : Running "H" Pattern And 1KHz Playing

HDMI1:1920\*1080@60Hz

| No. | Freq.<br>(MHz) | Ant.<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | AMP<br>factor<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Remark  |
|-----|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|---------|
| 1   | 1195.000       | 24.11                    | 0.98                  | 36.28                 | 58.56             | 47.37                         | 74.00              | 26.63          | Peak    |
| 2   | 1195.198       | 24.11                    | 0.98                  | 36.28                 | 47.52             | 36.33                         | 54.00              | 17.67          | Average |
| 3   | 1438.000       | 25.35                    | 1.01                  | 36.01                 | 59.97             | 50.32                         | 74.00              | 23.68          | Peak    |
| 4   | 1438.149       | 25.35                    | 1.01                  | 36.01                 | 47.93             | 38.28                         | 54.00              | 15.72          | Average |
| 5   | 1598.000       | 25.98                    | 1.04                  | 35.84                 | 62.16             | 53.34                         | 74.00              | 20.66          | Peak    |
| 6   | 1598.253       | 25.98                    | 1.04                  | 35.84                 | 51.17             | 42.35                         | 54.00              | 11.65          | Average |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor





Dis. / Ant. : 3m 2011 3115 9607-4877 Ant. pol. : HORIZONTAL

Limit : FCC PART 15 B PEAK

Env. / Ins. : 24\*C/56% Engineer : Victory-Cao

EUT : LCD TV M/N:LE40FHDE3010

Power Rating : AC 120V/60Hz

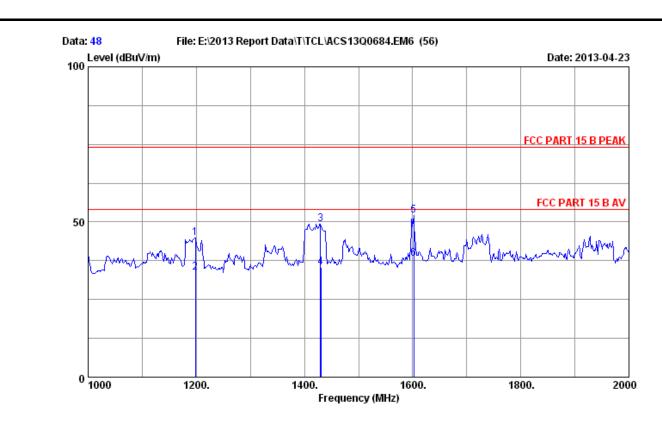
Test Mode : Running "H" Pattern And 1KHz Playing

HDMI2:1920\*1080@60Hz

| No. | Freq.<br>(MHz) | Ant.<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | AMP<br>factor<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Remark  |
|-----|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|---------|
| 1   | 1355.000       | 24.94                    | 1.00                  | 36.12                 | 56.21             | 46.03                         | 74.00              | 27.97          | Peak    |
| 2   | 1355.185       | 24.94                    | 1.00                  | 36.12                 | 43.27             | 33.09                         | 54.00              | 20.91          | Average |
| 3   | 1420.000       | 25.27                    | 1.01                  | 36.03                 | 59.34             | 49.59                         | 74.00              | 24.41          | Peak    |
| 4   | 1420.218       | 25.27                    | 1.01                  | 36.03                 | 47.36             | 37.61                         | 54.00              | 16.39          | Average |
| 5   | 1600.000       | 25.98                    | 1.04                  | 35.84                 | 59.26             | 50.44                         | 74.00              | 23.56          | Peak    |
| 6   | 1600.185       | 25.98                    | 1.04                  | 35.84                 | 46.27             | 37.45                         | 54.00              | 16.55          | Average |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor





Dis. / Ant. : 3m 2011 3115 9607-4877 Ant. pol. : VERTICAL

Limit : FCC PART 15 B PEAK

Env. / Ins. : 24\*C/56% Engineer : Victory-Cao

EUT : LCD TV M/N:LE40FHDE3010

Power Rating : AC 120V/60Hz

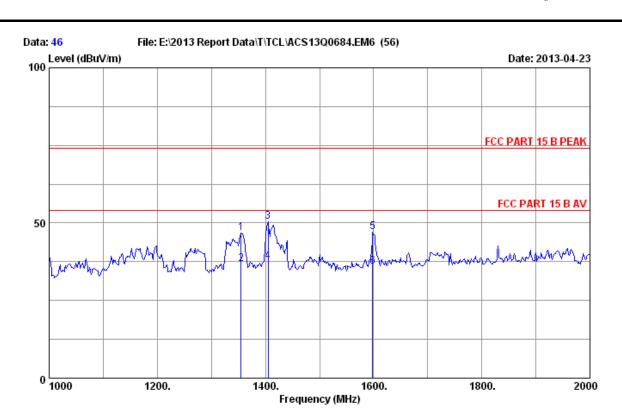
Test Mode : Running "H" Pattern And 1KHz Playing

HDMI2:1920\*1080@60Hz

| No. | Freq.<br>(MHz) | Ant.<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | AMP<br>factor<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Remark  |
|-----|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|---------|
| 1   | 1198.000       | 24.19                    | 0.98                  | 36.28                 | 55.97             | 44.86                         | 74.00              | 29.14          | Peak    |
| 2   | 1198.288       | 24.19                    | 0.98                  | 36.28                 | 44.92             | 33.81                         | 54.00              | 20.19          | Average |
| 3   | 1430.000       | 25.27                    | 1.01                  | 36.03                 | 59.17             | 49.42                         | 74.00              | 24.58          | Peak    |
| 4   | 1430.147       | 25.27                    | 1.01                  | 36.03                 | 45.15             | 35.40                         | 54.00              | 18.60          | Average |
| 5   | 1602.000       | 25.98                    | 1.04                  | 35.84                 | 60.88             | 52.06                         | 74.00              | 21.94          | Peak    |
| 6   | 1602.225       | 25.98                    | 1.04                  | 35.84                 | 46.85             | 38.03                         | 54.00              | 15.97          | Average |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor





Dis. / Ant. : 3m 2011 3115 9607-4877 Ant. pol. : HORIZONTAL

Limit : FCC PART 15 B PEAK

Env. / Ins. : 24\*C/56% Engineer : Victory-Cao

EUT : LCD TV M/N:LE40FHDE3010

Power Rating : AC 120V/60Hz

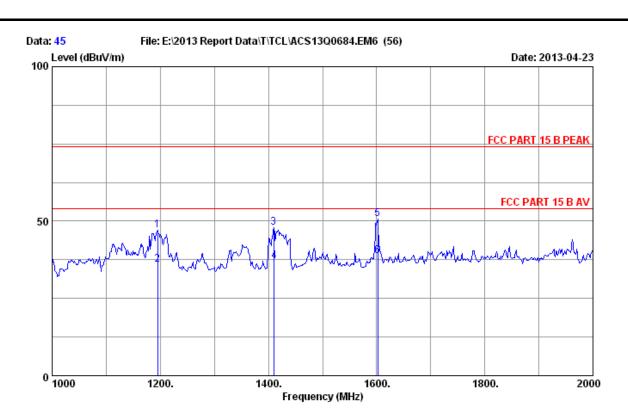
Test Mode : Running "H" Pattern And 1KHz Playing

HDMI3:1920\*1080@60Hz

| No. | Freq.    | Ant.<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | AMP<br>factor<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Remark  |
|-----|----------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|---------|
| 1   | 1355.000 | 24.94                    | 1.00                  | 36.12                 | 56.94             | 46.76                         | 74.00              | 27.24          | Peak    |
| 2   | 1355.145 | 24.94                    | 1.00                  | 36.12                 | 46.92             | 36.74                         | 54.00              | 17.26          | Average |
| 3   | 1405.000 | 25.19                    | 1.01                  | 36.06                 | 60.36             | 50.50                         | 74.00              | 23.50          | Peak    |
| 4   | 1405.124 | 25.19                    | 1.01                  | 36.06                 | 47.36             | 37.50                         | 54.00              | 16.50          | Average |
| 5   | 1598.000 | 25.98                    | 1.04                  | 35.84                 | 55.84             | 47.02                         | 74.00              | 26.98          | Peak    |
| 6   | 1598.137 | 25.98                    | 1.04                  | 35.84                 | 44.86             | 36.04                         | 54.00              | 17.96          | Average |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor





Site no. : 3m Chamber Data no. : 45
Dis. / Ant. : 3m 2011 3115 9607-4877 Ant. pol. : VERTICAL

Limit : FCC PART 15 B PEAK

Env. / Ins. : 24\*C/56% Engineer : Victory-Cao

EUT : LCD TV M/N:LE40FHDE3010

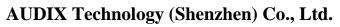
Power Rating : AC 120V/60Hz

Test Mode : Running "H" Pattern And 1KHz Playing

HDMI3:1920\*1080@60Hz

|     |          | Ant.   | Cable | AMP    |         | Emission |          |        |         |
|-----|----------|--------|-------|--------|---------|----------|----------|--------|---------|
| No. | Freq.    | Factor | Loss  | factor | Reading | Level    | Limits   | Margin | Remark  |
|     | (MHz)    | (dB/m) | (dB)  | (dB)   | (dBuV)  | (dBuV/m) | (dBuV/m) | (dB)   |         |
|     |          |        |       |        |         |          |          |        |         |
| 1   | 1195.000 | 24.11  | 0.98  | 36.28  | 58.18   | 46.99    | 74.00    | 27.01  | Peak    |
| 2   | 1195.178 | 24.11  | 0.98  | 36.28  | 47.13   | 35.94    | 54.00    | 18.06  | Average |
| 3   | 1410.000 | 25.19  | 1.01  | 36.06  | 57.86   | 48.00    | 74.00    | 26.00  | Peak    |
| 4   | 1410.252 | 25.19  | 1.01  | 36.06  | 46.83   | 36.97    | 54.00    | 17.03  | Average |
| 5   | 1602.000 | 25.98  | 1.04  | 35.84  | 59.60   | 50.78    | 74.00    | 23.22  | Peak    |
| 6   | 1602.163 | 25.98  | 1.04  | 35.84  | 47.52   | 38.70    | 54.00    | 15.30  | Average |
|     |          |        |       |        |         |          |          |        |         |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor





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| 5. DEVIATION TO TEST SPECIFICATIONS [NONE] |
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