Hisense Electric Co., Ltd. FCC ID: W9HLCDCE0002 Page 1 of 29

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

LCD TV

| Model No. | Serial No. | Brand | |
|--------------|-------------|---------|--|
| LTND42T18GUS | E2009120408 | Hisense | |
| 42LED55SA | | PROSCAN | |

FCC ID: W9HLCDCE0002

Prepared For: Hisense Electric Co., Ltd.

No.218 Qianwangang Road, Economy & Technology

Development Zone, Qingdao, China

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

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Report No.: ACI-F09126 Date of Test: Dec 10 – 16, 2009 Date of Report: Dec 18, 2009

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TEST REPORT FOR FCC CERTIFICATE

Applicant

Hisense Electric Co., Ltd.

Manufacturer

Hisense Electric Co., Ltd.

EUT Description :

LCD TV

| Model No. | Serial No. | Brand | Power Supply |
|--------------|-------------|---------|--------------|
| LTND42T18GUS | E2009120408 | Hisense | 1201/6011- |
| 42LED55SA | | PROSCAN | 120V/60Hz |

Test Procedure Used:

FCC RULES AND REGULATIONS PART 15 SUBPART B CLASS B OCTOBER 2008 AND ANSI C63.4-2003

The device described above is tested by Audix Technology (Shanghai) Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart B (Class B) limits both radiated and conducted emissions.

The test results are contained in this test report and Audix Technology (Shanghai) Co., Ltd. is assumed full responsibility for the accuracy and completeness of these measurements. This report shows that the EUT (M/N: Refer to Sec.2.1; S/N: Refer to Sec.2.1) which was tested in 3m anechoic chamber Dec 10 - 16, 2009 is technically compliance with the FCC official limits also.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of Audix Technology (Shanghai) Co., Ltd.

This report contains data that are not covered by the NVLAP accreditation.

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

The test results for EUT's TV functions are contained in No.F09125, a Verification report.

| Date of Test: | Dec 10 – 16, 2009 | Date of Report : | Dec 09, 2009 |
|---------------|------------------------|------------------|--------------|
| Producer: | KATHY WANG / Assistant | - | |
| Review: | BYRON WU / Supervisor | - | |

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

Signatory:

DIO YANG / Deputy Assistant Manager

Authorized Signature EMC

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1 SUMMARY OF STANDARDS AND RESULTS

1.1 Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below:

| Description of Test Item | Standard | Limits | Results |
|---------------------------------------------|------------------------------------------------------------------------------------|----------------------|---------|
| | EMISSION | | |
| Conducted Disturbance at the Mains Terminal | FCC RULES AND REGULATIONS PART 15 SUBPART B OCTOBER 2008 AND ANSI C63.4-2003 | 15.107(a) Class B | Pass |
| Radiated Disturbance | FCC RULES AND REGULATIONS PART 15 SUBPART B OCTOBER 2008 AND ANSI C63.4-2003 | 15.109(a) Class B | Pass |

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2 GENERAL INFORMATION

2.1 Description of Equipment Under Test

Description : LCD TV

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

| Model No. | Serial No. | Brand |
|--------------|-------------|---------|
| LTND42T18GUS | E2009120408 | Hisense |
| 42LED55SA | | PROSCAN |

Note 1 : The above models are all the same except for the

different model number and brand.

Note 2 : The LTDN42T18GUS was tested and recorded in

this report.

Applicant : Hisense Electric Co., Ltd.

No.218 Qianwangang Road, Economy &

Technology Development Zone, Qingdao, China

Manufacturer : Hisense Electric Co., Ltd.

No.218 Qianwangang Road, Economy &

Technology Development Zone, Qingdao, China

LCD Panel : Manufacturer : LG Display

M/N: LC420WUL (SB) (T1)

Tuner : Manufacturer : XuGuang Tech. Co., Ltd.

M/N : DVT-8ADC1/W41F2\ROH

Max Resolution : 1024*768@60Hz

D-Sub Cable : Shielded, Detachable, 1.85m,

with two cores on cable

HDMI Cable : Shielded, Detachable, 1.85m,

without core on cable

Power Cord : Unshielded, Detachable, 1.80m

Remark:

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

Side View:

(1) One component of Audio Port

Connected with Speaker

(2) One ANT Port

Connected with TV SG/ATSC SG

(3) One component of YPbPr#1 Port

Connected with DVD#1

(4) One VGA Port

Connected with PC

(5) One VGA Audio Port

Connected with PC

(6) One HDMI#1 Port

Connected with DVD#1

(7) One HDMI#2 Port

Connected with DVD#2

(8) One HDMI#3 Port

Connected with DVD#3

Bottom View:

(9) One component of YPbPr#2 Port

Connected with DVD#2

(10) One Coaxial Port

Connected with DVD#2

(11) One Headphone Port

Connected with Earphone

(12) One Service Port

Do not open to Customer

(13) One HDMI#4 Port

Connected with PC

2.2 Peripherals

2.2.1 PC

Manufacturer: HP

Model Number: dx7400MT Serial Number: CNG8130K89

Power Cord : Unshielded, Detachable, 1.8m

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

BSMI (R33001) 3C (A000111) MIC (E-A011-04-2659(B)

2.2.2 Printer

Manufacturer : HP Model Number : C3990A Serial Number : JPZX020487

Data Cable : Shielded, detachable, 1.5m Certificate : GS, CE/EMC, C-Tick, FCC DoC

2.2.3 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

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2.2.4 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

2.2.5 Modem

Manufacturer : TP-LINK Model Number : TM-EC5658V Serial Number : 07123301053

Data Cable : Shielded, Detachable, 1.8m Certificate : FCC DoC, CE/EMC, CCC

2.2.6 Earphone

Manufacturer : SONY Model Number : MDR-E808

Serial Number: 1808030805305506

2.2.7 TV Signal Generator

Manufacturer : FLUKE Model Number : 54200m01 Serial Number : 814008

Data Cable : Shielded, detachable, 2.0m Power Cord : Unshielded, detachable, 2.0m Certificate : CE/EMC, FCC DoC, CCC

2.2.8 ATSC Signal Generator

Manufacturer : SENCORE Model Number : ATSC997 Serial Number : 6790071

2.2.9 DVD#1

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

Certificate : FCC DoC, CE/EMC, CCC

2.2.10 DVD#2

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

Certificate : FCC DoC, CE/EMC, CCC

2.2.11 DVD#3

Manufacturer: LG

Model Number: DF9921N Serial Number: 3850R-N846W

Certificate : FCC DoC, CE/EMC, CCC

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2.2.12 Speaker

Manufacturer : DIBA Model Number : T520 Serial Number : 10628

2.3 Description of Test Facility

Site Description : Sept. 17, 1998 file on (Semi-Anechoic Chamber) : Apr 29, 2009 Renewed

Federal Communications Commission

FCC Engineering Laboratory 7435 Oakland Mills Road Columbia, MD 21046, USA

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

Site Location : 3F 34Bldg 680 Guiping Rd,

Caohejing Hi-Tech Park, Shanghai 200233, China

NVLAP Lab Code : 200371-0

2.4 Measurement Uncertainty

Conducted Emission Expanded Uncertainty: U = 1.26 dBRadiated Emission Expanded Uncertainty : U = 3.02 dB

3 CONDUCTED EMISSION TEST

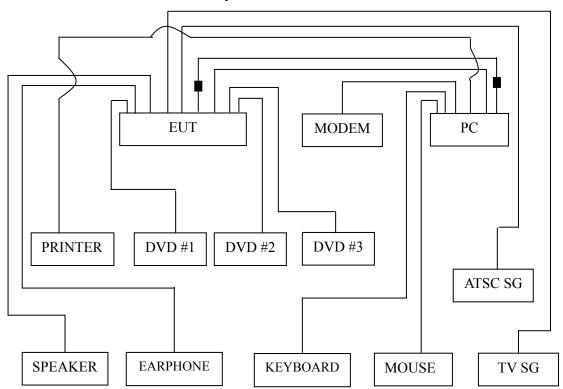
3.1.1 Test Equipment

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 | 100841 | Oct 15, 2009 | Oct 15, 2010 |
| 2. | Artificial Mains Network (AMN) | R&S | ESH2-Z5 | 843890/011 | Apr 02, 2009 | Apr 02, 2010 |
| 3. | Line Impedance Stabilization Network (LISN) | Kyoritsu | KNW-407 | 8-1280-4 | Apr 02, 2009 | Apr 02, 2010 |
| 4. | 50 Ω Coaxial Switch | Anritsu | MP59B | 6200426389 | Sep 19, 2009 | Mar 19, 2010 |
| 5. | 50Ω Terminator | Anritsu | BNC | 001 | Apr 02, 2009 | Apr 02, 2010 |
| 6. | Software | Audix | E3 | SET00200 9804M592 | | |

3.2 Block Diagram of Test Setup

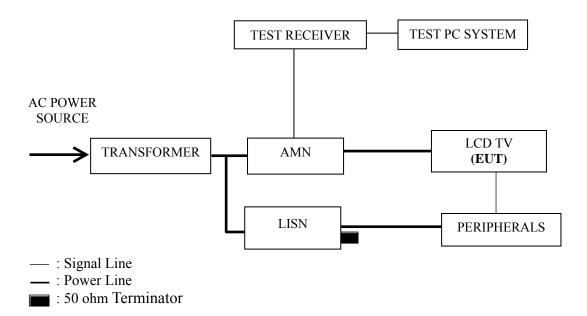
3.2.1 EUT & Peripherals



: Ferrite core

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3.2.2 Conducted Disturbance Test Setup



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

| Frequency Range | Limits dB (μV) | | |
|-----------------|----------------|---------|--|
| (MHz) | Quasi-peak | Average | |
| 0.15 ~ 0.5 | 66~56 | 56~46 | |
| 0.5 ~ 5 | 56 | 46 | |
| 5 ~ 30 | 60 | 50 | |

NOTE 1 – The lower limit shall apply at the transition frequencies.

NOTE 2 – The limit decreases linearly with the logarithm of the frequency in the range $0.15~\text{MHz}{\sim}0.50~\text{MHz}$

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.

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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 D-Sub & HDMI Input).
- 3.5.5 Repeat above procedure from 3.5.3 to 3.5.4 for difference test mode.
- 3.5.6 The other peripherals devices were driven and operated during the test.
- 3.5.7 The test modes are as follows:

| Test Mode |
|---------------------|
| D-Sub 640*480@60Hz |
| D-Sub 800*600@60Hz |
| D-Sub 1024*768@60Hz |
| HDMI 640*480@60Hz |
| HDMI 800*600@60Hz |
| HDMI 1024*768@60Hz |

3.6 Test Procedures

The EUT and peripherals were connected to the power mains through an Artificial Mains Network (AMN). This provided a 50 ohm coupling impedance for the measuring equipment.

Both sides of AC line (Line & Neutral) were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables were changed or manipulated according to ANSI C63.4:2003 during conducted emission test.

The bandwidth of R&S Test Receiver ESCI was set at 9 kHz.

The frequency range from 150 kHz to 30 MHz was checked.

The test modes were done on conducted disturbance test and all the test results are listed in Sec. 3.7.

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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 |
|---------------------|-----------|
| D-Sub 640*480@60Hz | P13 |
| D-Sub 800*600@60Hz | P14 |
| D-Sub 1024*768@60Hz | P15 |
| HDMI 640*480@60Hz | P16 |
| HDMI 800*600@60Hz | P17 |
| HDMI 1024*768@60Hz | P18 |

NOTE 1 - Factor = Cable Loss + AMN Factor.

NOTE 2 – Emission Level = Meter Reading + Factor.

NOTE 3 – "QP" means "Quasi-Peak" values, "AV" means "Average" values.

NOTE 4 – The worst case is for D-Sub 800*600@60Hz test mode. The worst emission is detected at 12.770 MHz (Average Value) with corrected signal level of 37.91 dB (μ V) (limit is 50.00 dB (μ V)), when the Neutral of the EUT is connected to AMN.

Model No. : LTDN42T18GUS Humidity : 48%RH

Serial No. : <u>E2009120408</u> Date of Test : <u>Dec 16, 2009</u>

Test Mode : D-Sub 640*480@60Hz

| Test Line | Frequency (MHz) | Meter Reading dB(μV) | Factor (dB) | Emission Level dB(µV) | Limits dB(µV) | Margin (dB) | Remark |
|--------------|-----------------|----------------------------|-------------|-----------------------------|---------------|-------------|--------|
| | 0.150 | 40.83 | 0.23 | 41.06 | 66.00 | 24.94 | |
| | 0.804 | 31.97 | 0.29 | 32.26 | 56.00 | 23.74 | |
| | 0.974 | 32.67 | 0.30 | 32.97 | 56.00 | 23.03 | OD |
| | 3.118 | 30.00 | 0.40 | 30.40 | 56.00 | 25.60 | QP |
| | 8.592 | 30.77 | 0.48 | 31.25 | 60.00 | 28.75 | |
| Line | 12.253 | 42.74 | 0.60 | 43.34 | 60.00 | 16.66 | |
| Line | 0.150 | 28.29 | 0.23 | 28.52 | 56.00 | 27.48 | |
| | 0.804 | 18.70 | 0.29 | 18.99 | 46.00 | 27.01 | |
| | 0.974 | 17.44 | 0.30 | 17.74 | 46.00 | 28.26 | AV |
| | 3.118 | 16.19 | 0.40 | 16.59 | 46.00 | 29.41 | |
| | 8.592 | 20.43 | 0.48 | 20.91 | 50.00 | 29.09 | |
| | 12.253 | 34.63 | 0.60 | 35.23 | 50.00 | 14.77 | |
| | 0.150 | 40.64 | 0.20 | 40.84 | 66.00 | 25.16 | |
| | 0.389 | 24.16 | 0.25 | 24.41 | 58.08 | 33.67 | QP |
| | 0.974 | 32.94 | 0.30 | 33.24 | 56.00 | 22.76 | |
| | 2.940 | 29.99 | 0.41 | 30.40 | 56.00 | 25.60 | |
| | 4.786 | 29.50 | 0.45 | 29.95 | 56.00 | 26.05 | |
| Neutral | 12.750 | 46.00 | 0.61 | 46.61 | 60.00 | 13.39 | |
| Neutrai | 0.150 | 30.71 | 0.20 | 30.91 | 56.00 | 25.09 | |
| | 0.389 | 18.81 | 0.25 | 19.06 | 48.08 | 29.02 | AV |
| | 0.974 | 15.97 | 0.30 | 16.27 | 46.00 | 29.73 | |
| | 2.940 | 16.84 | 0.41 | 17.25 | 46.00 | 28.75 | |
| | 4.786 | 18.44 | 0.45 | 18.89 | 46.00 | 27.11 | |
| | 12.750 | 36.52 | 0.61 | 37.13 | 50.00 | 12.87 | |

Model No. : LTDN42T18GUS Humidity : 48%RH

Serial No. : E2009120408 Date of Test : Dec 16, 2009

Test Mode : D-Sub 800*600@60Hz

| Test Line | Frequency (MHz) | Meter Reading dB(μV) | Factor (dB) | Emission Level dB(µV) | Limits dB(µV) | Margin (dB) | Remark |
|--------------|-----------------|----------------------------|-------------|-----------------------------|---------------|-------------|--------|
| | 0.150 | 40.94 | 0.23 | 41.17 | 66.00 | 24.83 | |
| | 0.402 | 25.94 | 0.28 | 26.22 | 57.81 | 31.59 | |
| | 0.974 | 32.54 | 0.30 | 32.84 | 56.00 | 23.16 | OD |
| | 1.184 | 30.39 | 0.32 | 30.71 | 56.00 | 25.29 | QP |
| | 3.107 | 29.41 | 0.40 | 29.81 | 56.00 | 26.19 | |
| Line | 12.890 | 45.80 | 0.63 | 46.43 | 60.00 | 13.57 | |
| Line | 0.150 | 31.07 | 0.23 | 31.30 | 56.00 | 24.70 | |
| | 0.402 | 18.94 | 0.28 | 19.22 | 47.81 | 28.59 | |
| | 0.974 | 16.71 | 0.30 | 17.01 | 46.00 | 28.99 | AV |
| | 1.184 | 16.32 | 0.32 | 16.64 | 46.00 | 29.36 | |
| | 3.107 | 17.04 | 0.40 | 17.44 | 46.00 | 28.56 | |
| | 12.890 | 36.50 | 0.63 | 37.13 | 50.00 | 12.87 | |
| | 0.150 | 40.77 | 0.20 | 40.97 | 66.00 | 25.03 | |
| | 0.804 | 32.23 | 0.29 | 32.52 | 56.00 | 23.48 | |
| | 1.461 | 27.99 | 0.34 | 28.33 | 56.00 | 27.67 | OB |
| | 2.996 | 29.49 | 0.41 | 29.90 | 56.00 | 26.10 | QP |
| | 4.721 | 26.10 | 0.45 | 26.55 | 56.00 | 29.45 | |
| Neutral | 12.770 | 46.50 | 0.61 | 47.11 | 60.00 | 12.89 | |
| Neutrai | 0.150 | 30.60 | 0.20 | 30.80 | 56.00 | 25.20 | |
| | 0.804 | 16.12 | 0.29 | 16.41 | 46.00 | 29.59 | AV |
| | 1.461 | 19.41 | 0.34 | 19.75 | 46.00 | 26.25 | |
| | 2.996 | 15.44 | 0.41 | 15.85 | 46.00 | 30.15 | |
| | 4.721 | 12.76 | 0.45 | 13.21 | 46.00 | 32.79 | |
| | 12.770 | 37.30 | 0.61 | 37.91 | 50.00 | 12.09 | |

Model No. : LTDN42T18GUS Humidity : 48%RH

Serial No. : E2009120408 Date of Test : Dec 16, 2009

Test Mode : D-Sub 1024*768@60Hz

| Test Line | Frequency (MHz) | Meter Reading dB(μV) | Factor (dB) | Emission Level dB(µV) | Limits dB(µV) | Margin (dB) | Remark | |
|--------------|-----------------|----------------------------|-------------|-----------------------------|---------------|-------------|--------|--|
| | 0.150 | 41.05 | 0.23 | 41.28 | 66.00 | 24.72 | | |
| | 0.393 | 27.59 | 0.28 | 27.87 | 57.99 | 30.12 | | |
| | 0.974 | 32.16 | 0.30 | 32.46 | 56.00 | 23.54 | OD | |
| | 2.707 | 29.75 | 0.39 | 30.14 | 56.00 | 25.86 | QP | |
| Line | 8.592 | 31.00 | 0.48 | 31.48 | 60.00 | 28.52 | | |
| | 12.240 | 45.30 | 0.60 | 45.90 | 60.00 | 14.10 | | |
| | 0.150 | 29.75 | 0.23 | 29.98 | 56.00 | 26.02 | | |
| | 0.393 | 24.40 | 0.28 | 24.68 | 47.99 | 23.31 | i | |
| | 0.974 | 16.35 | 0.30 | 16.65 | 46.00 | 29.35 | AV | |
| | 2.707 | 12.01 | 0.39 | 12.40 | 46.00 | 33.60 | AV | |
| | 8.592 | 20.67 | 0.48 | 21.15 | 50.00 | 28.85 | | |
| | 12.240 | 34.82 | 0.60 | 35.42 | 50.00 | 14.58 | | |
| | 0.150 | 40.79 | 0.20 | 40.99 | 66.00 | 25.01 | | |
| | 0.913 | 33.50 | 0.29 | 33.79 | 56.00 | 22.21 | | |
| | 1.185 | 30.99 | 0.32 | 31.31 | 56.00 | 24.69 | QP | |
| | 2.939 | 30.49 | 0.41 | 30.90 | 56.00 | 25.10 | Qr | |
| | 8.170 | 28.10 | 0.49 | 28.59 | 60.00 | 31.41 | | |
| Neutral | 12.210 | 44.50 | 0.59 | 45.09 | 60.00 | 14.91 | | |
| Neutrai | 0.150 | 26.93 | 0.20 | 27.13 | 56.00 | 28.87 | | |
| | 0.913 | 19.95 | 0.29 | 20.24 | 46.00 | 25.76 | | |
| | 1.185 | 19.62 | 0.32 | 19.94 | 46.00 | 26.06 | AX7 | |
| | 2.939 | 14.94 | 0.41 | 15.35 | 46.00 | 30.65 | AV | |
| | 8.170 | 17.41 | 0.49 | 17.90 | 50.00 | 32.10 | | |
| | 12.210 | 35.92 | 0.59 | 36.51 | 50.00 | 13.49 | | |

Model No. : LTDN42T18GUS Humidity : 48%RH

Serial No. : <u>E2009120408</u> Date of Test : <u>Dec 16, 2009</u>

Test Mode : HDMI 640*480@60Hz

| Test Line | Frequency (MHz) | Meter Reading dB(μV) | Factor (dB) | Emission Level dB(µV) | Limits dB(µV) | Margin (dB) | Remark | |
|--------------|-----------------|----------------------------|-------------|-----------------------------|---------------|-------------|--------|--|
| | 0.150 | 41.17 | 0.23 | 41.40 | 65.99 | 24.59 | | |
| | 0.398 | 28.67 | 0.28 | 28.95 | 57.89 | 28.94 | | |
| | 0.912 | 35.01 | 0.29 | 35.30 | 56.00 | 20.70 | OD | |
| | 2.633 | 31.39 | 0.39 | 31.78 | 56.00 | 24.22 | QP | |
| | 4.681 | 30.22 | 0.44 | 30.66 | 56.00 | 25.34 | | |
| Line | 12.520 | 41.97 | 0.61 | 42.58 | 60.00 | 17.42 | | |
| Line | 0.150 | 30.62 | 0.23 | 30.85 | 55.99 | 25.14 | | |
| | 0.398 | 22.61 | 0.28 | 22.89 | 47.89 | 25.00 | | |
| | 0.912 | 21.59 | 0.29 | 21.88 | 46.00 | 24.12 | AV | |
| | 2.633 | 19.00 | 0.39 | 19.39 | 46.00 | 26.61 | AV | |
| | 4.681 | 19.06 | 0.44 | 19.50 | 46.00 | 26.50 | | |
| | 12.520 | 33.91 | 0.61 | 34.52 | 50.00 | 15.48 | | |
| | 0.150 | 41.00 | 0.20 | 41.20 | 65.99 | 24.79 | | |
| | 0.398 | 26.54 | 0.25 | 26.79 | 57.90 | 31.11 | | |
| | 0.909 | 33.18 | 0.29 | 33.47 | 56.00 | 22.53 | QP | |
| | 2.993 | 30.59 | 0.41 | 31.00 | 56.00 | 25.00 | Qr | |
| | 4.672 | 30.80 | 0.45 | 31.25 | 56.00 | 24.75 | | |
| Neutral | 12.784 | 42.36 | 0.61 | 42.97 | 60.00 | 17.03 | | |
| Neuman | 0.150 | 15.21 | 0.20 | 15.41 | 55.99 | 40.58 | | |
| | 0.398 | 20.19 | 0.25 | 20.44 | 47.90 | 27.46 | | |
| | 0.909 | 22.06 | 0.29 | 22.35 | 46.00 | 23.65 | AXI | |
| | 2.993 | 15.97 | 0.41 | 16.38 | 46.00 | 29.62 | AV | |
| | 4.672 | 11.91 | 0.45 | 12.36 | 46.00 | 33.64 | | |
| | 12.784 | 33.71 | 0.61 | 34.32 | 50.00 | 15.68 | | |

Model No. : LTDN42T18GUS Humidity : 48%RH

Serial No. : E2009120408 Date of Test : Dec 16, 2009

Test Mode : HDMI 800*600@60Hz

| Test Line | Frequency (MHz) | Meter Reading dB(μV) | Factor (dB) | Emission Level dB(µV) | Limits dB(µV) | Margin (dB) | Remark | |
|--------------|-----------------|----------------------------|-------------|-----------------------------|---------------|-------------|--------|--|
| | 0.150 | 41.15 | 0.23 | 41.38 | 65.99 | 24.61 | | |
| | 0.395 | 28.25 | 0.28 | 28.53 | 57.95 | 29.42 | | |
| | 0.911 | 34.88 | 0.29 | 35.17 | 56.00 | 20.83 | OD | |
| | 2.633 | 31.37 | 0.39 | 31.76 | 56.00 | 24.24 | QP | |
| | 4.723 | 29.91 | 0.44 | 30.35 | 56.00 | 25.65 | | |
| Line | 12.490 | 41.67 | 0.61 | 42.28 | 60.00 | 17.72 | | |
| Line | 0.150 | 31.32 | 0.23 | 31.55 | 55.99 | 24.44 | | |
| | 0.395 | 24.40 | 0.28 | 24.68 | 47.95 | 23.27 | | |
| | 0.911 | 22.27 | 0.29 | 22.56 | 46.00 | 23.44 | AV | |
| | 2.633 | 19.45 | 0.39 | 19.84 | 46.00 | 26.16 | AV | |
| | 4.723 | 14.59 | 0.44 | 15.03 | 46.00 | 30.97 | | |
| | 12.490 | 33.29 | 0.61 | 33.90 | 50.00 | 16.10 | | |
| | 0.150 | 40.98 | 0.20 | 41.18 | 66.00 | 24.82 | | |
| | 0.909 | 32.89 | 0.29 | 33.18 | 56.00 | 22.82 | | |
| | 1.464 | 28.96 | 0.34 | 29.30 | 56.00 | 26.70 | QP | |
| | 2.634 | 31.33 | 0.39 | 31.72 | 56.00 | 24.28 | Qr | |
| | 4.407 | 28.74 | 0.45 | 29.19 | 56.00 | 26.81 | | |
| Neutral | 12.384 | 44.80 | 0.59 | 45.39 | 60.00 | 14.61 | | |
| Neunai | 0.150 | 23.96 | 0.20 | 24.16 | 56.00 | 31.84 | | |
| | 0.909 | 21.45 | 0.29 | 21.74 | 46.00 | 24.26 | | |
| | 1.464 | 17.36 | 0.34 | 17.70 | 46.00 | 28.30 | AV | |
| | 2.634 | 16.28 | 0.39 | 16.67 | 46.00 | 29.33 | | |
| | 4.407 | 13.22 | 0.45 | 13.67 | 46.00 | 32.33 | | |
| | 12.384 | 33.53 | 0.59 | 34.12 | 50.00 | 15.88 | | |

Model No. : LTDN42T18GUS Humidity : 48%RH

Serial No. : E2009120408 Date of Test : Dec 16, 2009

Test Mode : HDMI 1024*768@60Hz

| Test Line | Frequency (MHz) | Meter Reading dB(μV) | Factor (dB) | Emission Level dB(µV) | Limits dB(µV) | Margin (dB) | Remark | |
|--------------|-----------------|----------------------------|-------------|-----------------------------|---------------|-------------|--------|--|
| | 0.150 | 41.11 | 0.23 | 41.34 | 66.00 | 24.66 | | |
| | 0.398 | 28.79 | 0.28 | 29.07 | 57.90 | 28.83 | | |
| | 0.797 | 32.48 | 0.29 | 32.77 | 56.00 | 23.23 | OD | |
| | 2.999 | 30.11 | 0.40 | 30.51 | 56.00 | 25.49 | QP | |
| | 4.935 | 29.11 | 0.44 | 29.55 | 56.00 | 26.45 | | |
| Line | 12.790 | 45.40 | 0.62 | 46.02 | 60.00 | 13.98 | | |
| Line | 0.150 | 33.33 | 0.23 | 33.56 | 56.00 | 22.44 | | |
| | 0.398 | 23.45 | 0.28 | 23.73 | 47.90 | 24.17 | | |
| | 0.797 | 17.31 | 0.29 | 17.60 | 46.00 | 28.40 | AV | |
| | 2.999 | 14.96 | 0.40 | 15.36 | 46.00 | 30.64 | AV | |
| | 4.935 | 17.54 | 0.44 | 17.98 | 46.00 | 28.02 | | |
| | 12.790 | 35.24 | 0.62 | 35.86 | 50.00 | 14.14 | | |
| | 0.150 | 40.94 | 0.20 | 41.14 | 66.00 | 24.86 | | |
| | 0.672 | 27.72 | 0.27 | 27.99 | 56.00 | 28.01 | | |
| | 0.909 | 32.41 | 0.29 | 32.70 | 56.00 | 23.30 | OB | |
| | 2.533 | 30.13 | 0.39 | 30.52 | 56.00 | 25.48 | QP | |
| | 4.982 | 30.00 | 0.45 | 30.45 | 56.00 | 25.55 | | |
| Neutral | 12.640 | 45.70 | 0.60 | 46.30 | 60.00 | 13.70 | | |
| Neutrai | 0.150 | 27.52 | 0.20 | 27.72 | 56.00 | 28.28 | | |
| | 0.672 | 15.22 | 0.27 | 15.49 | 46.00 | 30.51 | | |
| | 0.909 | 20.50 | 0.29 | 20.79 | 46.00 | 25.21 | A T 7 | |
| | 2.533 | 18.84 | 0.39 | 19.23 | 46.00 | 26.77 | AV | |
| - | 4.982 | 17.86 | 0.45 | 18.31 | 46.00 | 27.69 | | |
| | 12.640 | 36.53 | 0.60 | 37.13 | 50.00 | 12.87 | | |

4 RADIATED EMISSION TEST

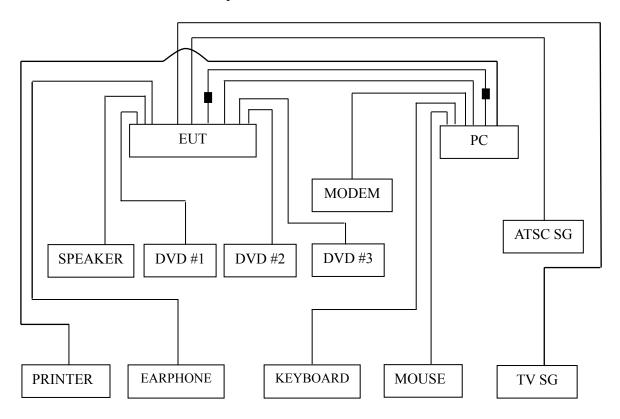
4.1 Test Equipment

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

| Item | Туре | Manufacturer | Model No. | Serial No. | Last Cal. | Next Cal. |
|------|----------------|--------------|-----------|------------------------|--------------|--------------|
| 1. | Test Receiver | R&S | ESVS10 | 844594/001 | Mar 07, 2009 | Mar 07, 2010 |
| 2. | Preamplifier | Agilent | 8447D | 2944A10548 | Sep 19, 2009 | Mar 19, 2010 |
| 3. | Bi-log Antenna | TESEQ | CBL6112D | 23193 | May 14, 2008 | May 14, 2010 |
| 4. | Spectrum | Agilent | E7405A | MY45106600 | May 19, 2009 | May 19, 2010 |
| 5. | Software | Audix | E3 | SET00200 9912M295-2 | | |

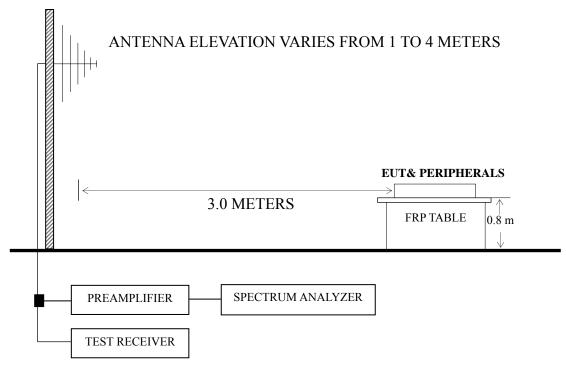
4.2 Block Diagram of Test Setup

4.2.1 EUT and Peripherals



: Ferrite core

4.2.2 Radiated emission test setup



: 50 ohm Coaxial Switch

4.3 Radiated Emission Limit [FCC Part 15 Subpart B 15.109(a)]

| Frequency | Distance | Field strength limits | | | |
|-----------|----------|-----------------------|-----------|--|--|
| (MHz) | (m) | (µV/m) | dB (μV/m) | | |
| 30 ~ 88 | 3 | 100 | 40.0 | | |
| 88 ~ 216 | 3 | 150 | 43.5 | | |
| 216 ~ 960 | 3 | 200 | 46.0 | | |
| Above 960 | 3 | 500 | 54.0 | | |

- NOTE 1 Emission Level dB (μ V/m) = 20 log Emission Level (μ V/m)
- NOTE 2 The tighter limit applies at the band edges.
- NOTE 3 Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
- NOTE 4 The limits shown are based on Quasi-peak value detector.

4.4 Test Configuration

The configuration of the EUT and peripherals are same as those used in conducted emission test.

Please refer to Sec.3.4.

4.5 Operating Condition of EUT

Same as conducted emission test which is listed in Sec.3.5, except for the test setup replaced by Sec.4.2.

4.6 Test Procedures

The EUT and peripherals were placed on a FRP turntable that is 0.8 meter above ground. The FRP turntable rotated 360 degrees to determine the position of the maximum emission level. The EUT was set 3 meters away from the receiving antenna, which was mounted on an antenna tower. Broadband antenna (Calibrated Bilog Antenna) was used as receiving antenna. The antenna moved up and down between 1 meter and 4 meters to find out the maximum emission level. Both horizontal and vertical polarizations of the antenna were set on measurement. In order to find the maximum emission, all of the interference cables were manipulated according to ANSI C63.4:2003 requirements during radiated emission test.

The bandwidth of Test Receiver R&S ESVS10 was set at 120 kHz.

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

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 |
|---------------------|-----------|
| D-Sub 640*480@60Hz | P22 |
| D-Sub 800*600@60Hz | P23 |
| D-Sub 1024*768@60Hz | P24 |
| HDMI 640*480@60Hz | P25 |
| HDMI 800*600@60Hz | P26 |
| HDMI 1024*768@60Hz | P27 |

- NOTE 1 Emission Level = Antenna Factor + Cable Loss + Meter Reading.
- NOTE 2 The emission levels that are 20dB below the official limit are not reported.
- NOTE $3 0^{\circ}$ was the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.
- NOTE 4 The worst case is for D-Sub 640*480@60Hz test mode. The worst emission at horizontal polarization was detected at 816.510 MHz with corrected signal level of 41.88 dB (μ V/m) (limit is 46.00dB (μ V/m)), when the antenna was 1.60 m height and the turntable was at 70°. The worst emission at vertical polarization was detected at 639.160 MHz with corrected signal level of 41.69 dB (μ V/m) (limit is 46.00 dB (μ V/m)), when the antenna was 1.50 m height and the turntable was at 150°.

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EUT : LCD TV Temperature : 22° C

Model No. : LTDN42T18GUS Humidity : 60%RH

Serial No. : E2009120408 Date of Test : Dec 10, 2009

Test Mode : D-Sub 640*480@60Hz

| Polarization | Frequency (MHz) | Meter Reading dB (μV) | Antenna Factor (dB/m) | | Emission Level dB (µV/m) | Limits dB (µV/m) | Margin (dB) |
|--------------|-----------------|-----------------------------|-----------------------------|------|--------------------------------|------------------|-------------|
| | 75.590 | 26.34 | 7.24 | 0.91 | 34.49 | 40.00 | 5.51 |
| | 123.120 | 24.44 | 12.86 | 1.16 | 38.46 | 43.50 | 5.04 |
| Horizontal | 149.310 | 24.59 | 11.35 | 1.23 | 37.17 | 43.50 | 6.33 |
| Попідопіаї | 365.620 | 20.89 | 15.73 | 1.96 | 38.58 | 46.00 | 7.42 |
| | 519.500 | 19.00 | 18.15 | 2.31 | 39.46 | 46.00 | 6.54 |
| | 816.510 | 18.10 | 20.87 | 2.91 | 41.88 | 46.00 | 4.12 |
| | 44.550 | 16.55 | 11.38 | 0.71 | 28.64 | 40.00 | 11.36 |
| | 112.450 | 24.18 | 12.51 | 1.10 | 37.79 | 43.50 | 5.71 |
| Vertical | 130.880 | 23.59 | 12.47 | 1.16 | 37.22 | 43.50 | 6.28 |
| Vertical | 188.110 | 22.25 | 10.20 | 1.39 | 33.84 | 43.50 | 9.66 |
| | 454.860 | 16.56 | 17.29 | 2.15 | 36.00 | 46.00 | 10.00 |
| | 639.160 | 19.72 | 19.39 | 2.58 | 41.69 | 46.00 | 4.31 |

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EUT : LCD TV Temperature : 22°C

Model No. : LTDN42T18GUS Humidity : 60%RH

Serial No. : E2009120408 Date of Test : Dec 10, 2009

Test Mode : D-Sub 800*600@60Hz

| 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) |
|--------------|-----------------|-----------------------------|-----------------------------|-----------------------|--------------------------------|------------------|-------------|
| | 74.620 | 27.58 | 7.11 | 0.91 | 35.60 | 40.00 | 4.40 |
| | 123.120 | 24.24 | 12.86 | 1.16 | 38.26 | 43.50 | 5.24 |
| Horizontal | 149.310 | 26.78 | 11.35 | 1.23 | 39.36 | 43.50 | 4.14 |
| Horizontai | 365.620 | 23.73 | 15.73 | 1.96 | 41.42 | 46.00 | 4.58 |
| | 747.800 | 17.95 | 20.20 | 2.78 | 40.93 | 46.00 | 5.07 |
| | 823.460 | 17.74 | 20.94 | 2.94 | 41.62 | 46.00 | 4.38 |
| | 33.880 | 14.83 | 17.44 | 0.64 | 32.91 | 40.00 | 7.09 |
| | 74.620 | 26.10 | 7.11 | 0.91 | 34.12 | 40.00 | 5.88 |
| Vartical | 121.180 | 22.15 | 12.95 | 1.18 | 36.28 | 43.50 | 7.22 |
| Vertical | 364.650 | 22.46 | 15.73 | 1.97 | 40.16 | 46.00 | 5.84 |
| | 523.730 | 15.07 | 18.21 | 2.32 | 35.60 | 46.00 | 10.40 |
| | 823.460 | 17.15 | 20.94 | 2.94 | 41.03 | 46.00 | 4.97 |

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EUT : LCD TV Temperature : 22°C

Model No. : LTDN42T18GUS Humidity : 60%RH

Serial No. : E2009120408 Date of Test : Dec 10, 2009

Test Mode : <u>D-Sub 1024*768@60Hz</u>

| 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) |
|--------------|-----------------|-----------------------------|-----------------------------|-----------------------|--------------------------------|------------------|-------------|
| | 74.620 | 25.47 | 7.11 | 0.91 | 33.49 | 40.00 | 6.51 |
| | 149.310 | 26.02 | 11.35 | 1.23 | 38.60 | 43.50 | 4.90 |
| Horizontal | 362.710 | 22.76 | 15.65 | 1.92 | 40.33 | 46.00 | 5.67 |
| Пописний | 519.850 | 14.22 | 18.15 | 2.31 | 34.68 | 46.00 | 11.32 |
| | 741.980 | 15.00 | 20.13 | 2.78 | 37.91 | 46.00 | 8.09 |
| | 816.670 | 17.73 | 20.87 | 2.91 | 41.51 | 46.00 | 4.49 |
| | 32.910 | 14.29 | 17.95 | 0.62 | 32.86 | 40.00 | 7.14 |
| | 75.590 | 26.31 | 7.24 | 0.91 | 34.46 | 40.00 | 5.54 |
| Vertical | 121.180 | 20.88 | 12.95 | 1.18 | 35.01 | 43.50 | 8.49 |
| vertical | 365.620 | 23.26 | 15.73 | 1.96 | 40.95 | 46.00 | 5.05 |
| | 519.850 | 15.59 | 18.15 | 2.31 | 36.05 | 46.00 | 9.95 |
| | 816.670 | 16.69 | 20.87 | 2.91 | 40.47 | 46.00 | 5.53 |

Model No. : LTDN42T18GUS Humidity : 60%RH

Serial No. : E2009120408 Date of Test : Dec 10, 2009

Test Mode : HDMI 640*480@60Hz

| Polarization | Frequency (MHz) | Meter Reading dB (µV) | Antenna Factor (dB/m) | | Emission Level dB (µV/m) | Limits dB ($\mu V/m$) | Margin (dB) |
|--------------|-----------------|-----------------------------|-----------------------------|------|--------------------------------|-------------------------|-------------|
| | 41.640 | 16.23 | 13.02 | 0.70 | 29.95 | 40.00 | 10.05 |
| | 76.560 | 25.56 | 7.36 | 0.91 | 33.83 | 40.00 | 6.17 |
| Horizontal | 129.910 | 23.08 | 12.52 | 1.13 | 36.73 | 43.50 | 6.77 |
| Пописний | 154.160 | 24.29 | 10.94 | 1.27 | 36.50 | 43.50 | 7.00 |
| | 486.870 | 17.40 | 17.75 | 2.22 | 37.37 | 46.00 | 8.63 |
| | 741.980 | 18.39 | 20.13 | 2.78 | 41.30 | 46.00 | 4.70 |
| | 73.650 | 24.59 | 6.98 | 0.91 | 32.48 | 40.00 | 7.52 |
| | 115.360 | 21.91 | 12.71 | 1.12 | 35.74 | 43.50 | 7.76 |
| Vertical | 147.370 | 26.55 | 11.51 | 1.24 | 39.30 | 43.50 | 4.20 |
| vertical | 292.870 | 18.53 | 13.79 | 1.75 | 34.07 | 46.00 | 11.93 |
| | 519.850 | 13.49 | 18.15 | 2.31 | 33.95 | 46.00 | 12.05 |
| | 741.980 | 18.33 | 20.13 | 2.78 | 41.24 | 46.00 | 4.76 |

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EUT : LCD TV Temperature : 22°C

Model No. : LTDN42T18GUS Humidity : 60%RH

Serial No. : E2009120408 Date of Test : Dec 10, 2009

Test Mode : HDMI 800*600@60Hz

| 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) |
|--------------|-----------------|-----------------------------|-----------------------------|-----------------------|--------------------------------|------------------|-------------|
| | 75.590 | 20.20 | 7.24 | 0.91 | 28.35 | 40.00 | 11.65 |
| | 128.940 | 23.55 | 12.58 | 1.14 | 37.27 | 43.50 | 6.23 |
| Horizontal | 147.370 | 25.64 | 11.51 | 1.24 | 38.39 | 43.50 | 5.11 |
| Пописний | 362.710 | 24.29 | 15.65 | 1.92 | 41.86 | 46.00 | 4.14 |
| | 747.800 | 15.63 | 20.20 | 2.78 | 38.61 | 46.00 | 7.39 |
| | 823.460 | 17.61 | 20.94 | 2.94 | 41.49 | 46.00 | 4.51 |
| | 31.940 | 14.42 | 18.49 | 0.62 | 33.53 | 40.00 | 6.47 |
| | 83.350 | 25.08 | 8.30 | 0.98 | 34.36 | 40.00 | 5.64 |
| Vartical | 117.300 | 24.26 | 12.84 | 1.14 | 38.24 | 43.50 | 5.26 |
| Vertical | 364.650 | 23.61 | 15.73 | 1.97 | 41.31 | 46.00 | 4.69 |
| | 489.780 | 8.11 | 17.78 | 2.23 | 28.12 | 46.00 | 17.88 |
| | 747.800 | 13.81 | 20.20 | 2.78 | 36.79 | 46.00 | 9.21 |

Model No. : LTDN42T18GUS Humidity : 60%RH

Serial No. : E2009120408 Date of Test : Dec 10, 2009

Test Mode : <u>HDMI 1024*768@60Hz</u>

| 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 | 43.580 | 9.58 | 11.88 | 0.69 | 22.15 | 40.00 | 17.85 |
| | 75.590 | 27.36 | 7.24 | 0.91 | 35.51 | 40.00 | 4.49 |
| | 149.310 | 25.20 | 11.35 | 1.23 | 37.78 | 43.50 | 5.72 |
| | 362.710 | 21.52 | 15.65 | 1.92 | 39.09 | 46.00 | 6.91 |
| | 519.850 | 13.77 | 18.15 | 2.31 | 34.23 | 46.00 | 11.77 |
| | 741.980 | 13.49 | 20.13 | 2.78 | 36.40 | 46.00 | 9.60 |
| Vertical | 33.880 | 17.36 | 17.44 | 0.64 | 35.44 | 40.00 | 4.56 |
| | 76.560 | 25.62 | 7.36 | 0.91 | 33.89 | 40.00 | 6.11 |
| | 121.180 | 23.77 | 12.95 | 1.18 | 37.90 | 43.50 | 5.60 |
| | 188.110 | 21.47 | 10.20 | 1.39 | 33.06 | 43.50 | 10.44 |
| | 228.850 | 16.51 | 12.07 | 1.56 | 30.14 | 46.00 | 15.86 |
| | 519.850 | 16.33 | 18.15 | 2.31 | 36.79 | 46.00 | 9.21 |

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5 DEVIATION TO TEST SPECIFICATIONS

None.

6 DEBUG DESCRIPTION

The following components are used during the countermeasure procedures:

| Name | M/N | Manufacturer | Location |
|---------------|---------------|---------------------------|------------------------------|
| Gasket | DAA1001\ROH | QDJOINSET S&T CO., LTD | See Internal Photo Figure 16 |
| Gasket | 20X20X\ROH | QDJOINSET S&T CO., LTD | See Internal Photo Figure 16 |
| Aluminum foil | DBA40X100\ROH | QDJOINSET S&T CO., LTD | See Internal Photo Figure 16 |

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

TEST ENGINEER: Line . Jin

(KAVEN JIN)