



**Hisense Electric Co., Ltd.**

Application  
For  
Certification  
**FCC ID: W9HLCDD0041**

**LED LCD TV**

**Model: LTDN40D36US**  
**Additional Model: 40D36, 40H3C, LTDN40D37US, 40D37, 40H3E**

Computer Peripheral

Report No.: 140319026SZN-002

Prepared and Checked by:

Approved by:

Sign on file

Jenner Liu  
Assistant Engineer

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Billy Li  
Supervisor  
Date: April 09, 2014

- The test results reported in this test report shall refer only to the sample actually tested and shall not refer or be deemed to refer to bulk from which such a sample may be said to have been obtained.
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TRF No.: FCC 15C\_PC\_b

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# INTERTEK TESTING SERVICES

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## LIST OF EXHIBITS

### *INTRODUCTION*

<i>EXHIBIT 1:</i>	General Description
<i>EXHIBIT 2:</i>	System Test Configuration
<i>EXHIBIT 3:</i>	Emission Results
<i>EXHIBIT 4:</i>	Equipment Photographs
<i>EXHIBIT 5:</i>	Product Labeling
<i>EXHIBIT 6:</i>	Technical Specifications
<i>EXHIBIT 7:</i>	Instruction Manual
<i>EXHIBIT 8:</i>	Miscellaneous Information
<i>EXHIBIT 9:</i>	Test Equipment List

# INTERTEK TESTING SERVICES

## MEASUREMENT / TECHNICAL REPORT

**Hisense Electric Co., Ltd.**  
**MODEL: LTDN40D36US**  
**Additional Model: 40D36, 40H3C, LTDN40D37US, 40D37, 40H3E**

**FCC ID: W9HLCDD0041**

This report concerns (check one:)      Original Grant  Class II Change

Equipment Type: JBP-Class B Computing Device Peripheral

Deferred grant requested per 47 CFR 0.457(d)(1)(ii)?      Yes       No

If yes, defer until: \_\_\_\_\_  
date

Company Name agrees to notify the Commission by: \_\_\_\_\_  
date

of the intended date of announcement of the product so that the grant can be issued on that date.

Transition Rules Request per 15.37?      Yes       No

If no, assumed Part 15, Subpart B for unintentional radiator – the new 47 CFR [10-01-13 Edition] provision.

Report prepared by:

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# INTERTEK TESTING SERVICES

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## Table of Contents

<b>1.0</b>	<b><u>General Description</u></b> .....	2
1.1	Product Description.....	2
1.2	Related Submittal(s) Grants.....	2
1.3	Test Methodology.....	3
1.4	Test Facility.....	3
<b>2.0</b>	<b><u>System Test Configuration</u></b> .....	5
2.1	Justification.....	5
2.2	EUT Exercising Software.....	5
2.3	Special Accessories.....	5
2.4	Equipment Modification.....	5
2.5	Measurement Uncertainty.....	6
2.6	Support Equipment List and Description.....	6
<b>3.0</b>	<b><u>Emission Results</u></b> .....	8
3.1	Field Strength Calculation.....	9
3.2	Radiated Emission Configuration Photograph.....	11
3.3	Radiated Emission Data.....	12
3.4	Conducted Emission at Mains Terminal.....	15
3.5	Conducted Emission Configuration Photograph.....	15
3.6	Conducted Emission.....	15
<b>4.0</b>	<b><u>Equipment Photographs</u></b> .....	22
<b>5.0</b>	<b><u>Product Labelling</u></b> .....	24
<b>6.0</b>	<b><u>Technical Specifications</u></b> .....	26
<b>7.0</b>	<b><u>Instruction Manual</u></b> .....	28
<b>8.0</b>	<b><u>Miscellaneous Information</u></b> .....	30
<b>9.0</b>	<b><u>Test Equipment List</u></b> .....	34

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## INTERTEK TESTING SERVICES

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List of attached file

Exhibit Type	File Description	Filename
Test Report	Test Report	report.pdf
Test Setup Photo	Radiated photos	radiated photos.pdf
Test Setup Photo	Conducted photos	conducted photos.pdf
External Photo	External Photos	external photos.pdf
Internal Photo	Internal Photos	internal photos.pdf
Block Diagram	Block Diagram	block.pdf
ID Label / Location	Label Artwork and Location	label.pdf
User Manual	User Manual	manual.pdf
Cover Letter	Confidential Letter	request.pdf
Cover Letter	Letter of Agency	agency.pdf

# INTERTEK TESTING SERVICES

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## EXHIBIT 1

### GENERAL DESCRIPTION

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### 1.0 General Description

#### 1.1 Product Description

The Equipment Under Test (EUT) is a LED LCD TV. The device can be used to connect PC by HDMI and VGA ports. The EUT is powered by 120V/60Hz.

The Models: 40D36, 40H3C, LTDN40D37US, 40D37, 40H3E are the same as the Model: LTDN40D36US in hardware aspect. The difference in front plastic cabinet and model number serves as marketing strategy.

#### 1.2 Related Submittal(s) Grants

This is an application for certification of a computer peripheral. Other digital functions were reported in the verification report: 140319026SZN-001.

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### 1.3 Test Methodology

Both AC mains line-conducted and radiated emission measurements were performed according to the procedures in ANSI C63.4 (2009). Radiated emission measurement was performed in Semi-anechoic chamber and conducted emission measurement was performed in shield room. For radiated emission measurement, preliminary scans were performed in the semi-anechoic chamber only to determine the worst case modes. All radiated tests were performed at an antenna to EUT distance of 3 meters, unless stated otherwise in the "**Justification Section**" of this Application.

### 1.4 Test Facility

The Semi-anechoic chamber and shielding room used to collect the radiated data and conducted data are **Intertek Testing Services Shenzhen Ltd. Kejiyuan Branch** and located at 6F, D Block, Huahan Building, Langshan Road, Nanshan District, Shenzhen, P. R. China. This test facility and site measurement data have been fully placed on file with the FCC (Registration Number: 242492).



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**EXHIBIT 2**  
**SYSTEM TEST CONFIGURATION**

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### 2.0 **System Test Configuration**

#### 2.1 Justification

The system was configured for testing in a typical fashion (as a customer would normally use it), and in the confines as outlined in ANSI C63.4 (2009).

The device was powered by AC 120V/60Hz during the test. The worst case data was reported in this report.

For maximizing emissions, the EUT was rotated through 360°, the antenna height was varied from 1 meter to 4 meters above the ground plane, and the antenna polarization was changed. The step by step procedure for maximizing emissions led to the data reported in Exhibit 3.0.

The rear of unit shall be flushed with the rear of the table.

The equipment under test (EUT) was configured for testing in a typical fashion (as a customer would normally use it). The EUT was placed on turntable, which enabled the engineer to maximize emissions through its placement in the three orthogonal axes.

The frequency range from 30MHz to 2GHz was searched for spurious emissions from the device. Only those emissions reported were detected. All other emissions were at least 20 dB below the applicable limits.

#### 2.2 EUT Exercising Software

N/A

#### 2.3 Special Accessories

N/A

#### 2.4 Equipment Modification

Any modifications installed previous to testing by Hisense Electric Co., Ltd. will be incorporated in each production model sold / leased in the United States.

No modifications were installed by Intertek Testing Services Shenzhen Ltd. Kejiyuan Branch.

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### 2.5 Measurement Uncertainty

When determining the test conclusion, the Measurement Uncertainty of test has been considered.

### 2.6 Support Equipment List and Description

This product was tested in the following configuration:

Refer List:

Description	Manufacturer	Model No.
Laptop	Lenovo	T420
Laptop	Lenovo	X1
Hard Disk	Smart.drive	HD-003
USB Memory	SanDisk	SDCZ36-002G-P36
1394 Cable	Smart.drive	Unshielded, Length 180cm
USB Cable	Smart.drive	Unshielded, Length 155cm
Dummy Load	N/A	N/A
VGA Cable	HP	Unshielded, Length 180cm
HDMI Cable*3	N/A	UnShielded, Length 180cm
PC Audio Cable	N/A	Unshielded, Length 150cm
AV Cable	N/A	Unshielded, Length 120cm
YPbPr Cable	N/A	Unshielded, Length 120cm
Digital Audio Out Cable	N/A	Unshielded, Length 120cm
Tuner Resister	N/A	75ohm
Headphone	N/A	Unshielded, Length 110cm
Remote controller	Hisense	N/A

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**EXHIBIT 3**  
**EMISSION RESULTS**

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### 3.0 Emission Results

Data is included worst case configuration (the configuration which resulted in the highest emission levels). A sample calculation, configuration photographs and data tables of the emissions are included.

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### 3.1 Field Strength Calculation

The field strength is calculated by adding the reading on the Spectrum Analyzer to the factors associated with preamplifiers (if any), antennas, cables, pulse desensitization and average factors (when specified limit is in average and measurements are made with peak detectors). A sample calculation is included below.

$$FS = RA + AF + CF - AG + PD + AV$$

where FS = Field Strength in dB $\mu$ V/m

RA = Receiver Amplitude (including preamplifier) in dB $\mu$ V

CF = Cable Attenuation Factor in dB

AF = Antenna Factor in dB/m

AG = Amplifier Gain in dB

PD = Pulse Desensitization in dB

AV = Average Factor in -dB

In the radiated emission table which follows, the reading shown on the data table may reflect the preamplifier gain. An example of the calculations, where the reading does not reflect the preamplifier gain, follows:

$$FS = RA + AF + CF - AG + PD + AV$$

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### 3.1 Field Strength Calculation (cont'd)

#### Example

Assume a receiver reading of 62.0dB $\mu$ V is obtained. The antenna factor of 7.4dB/m and cable factor of 1.6dB is added. The amplifier gain of 29dB is subtracted. The pulse desensitization factor of the spectrum analyzer was 0dB, and the resultant average factor was -10dB. The net field strength for comparison to the appropriate emission limit is 32dB $\mu$ V/m. This value in dB $\mu$ V/m was converted to its corresponding level in  $\mu$ V/m.

$$RA = 62.0\text{dB}\mu\text{V}$$

$$AF = 7.4\text{dB/m}$$

$$CF = 1.6\text{dB}$$

$$AG = 29.0\text{dB}$$

$$PD = 0\text{dB}$$

$$AV = -10\text{dB}$$

$$FS = 62 + 7.4 + 1.6 - 29 + 0 + (-10) = 32\text{dB}\mu\text{V/m}$$

$$\text{Level in } \mu\text{V/m} = \text{Common Antilogarithm } [(32\text{dB}\mu\text{V/m})/20] = 39.8\mu\text{V/m}$$

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### 3.2 Radiated Emission Configuration Photograph

Worst Case Radiated Emission  
At  
222.741MHz (HDMI In Mode)

For electronic filing, the worst case radiated emission configuration photograph is saved with filename: radiated photos.pdf.



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### 3.3 Radiated Emission Data

The data on the following page lists the significant emission frequencies, the limit and the margin of compliance. Numbers with a minus sign are below the limit.

Judgement: Passed by 3.7dB margin (HDMI In Mode)

#### **TEST PERSONNEL:**

*Sign on file*

Jenner Liu Assistant Engineer  
*Typed/Printed Name*

April 09, 2014  
*Date*

## INTERTEK TESTING SERVICES

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Company: Hisense Electric Co., Ltd.

Date of Test: April 09, 2014

Model: LTDN40D36US

Operating Mode: HDMI In

### Radiated Emissions

Polarization	Frequency (MHz)	Reading (dB $\mu$ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB $\mu$ V/m)	Limit at 3m (dB $\mu$ V/m)	Margin (dB)
Horizontal	138.640	42.6	20.0	8.0	30.6	43.5	-12.9
Horizontal	222.741	52.1	20.0	10.2	42.3	46.0	-3.7
Horizontal	672.128	38.5	20.0	20.0	38.5	46.0	-7.5
Horizontal	1190.000	38.4	20.0	24.7	43.1	54.0	-10.9
Vertical	37.554	41.0	20.0	13.1	34.1	40.0	-5.9
Vertical	65.880	43.2	20.0	5.1	28.3	40.0	-11.7
Vertical	140.560	40.4	20.0	8.2	28.6	43.5	-14.9
Vertical	1336.000	34.0	20.0	26.2	40.2	54.0	-13.8

#### NOTES:

1. Quasi-Peak detector is used for frequency up to 1GHz and Peak detector is used for frequency from 1-2GHz.
2. All measurements were made at 3 meters. Harmonic emissions not detected at the 3 meter distances were measured at 0.3- meter and an inverse proportional extrapolation was performed to compare the signal level to the 3 meter limit. No other harmonic emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. All emissions up to 1GHz are below the QP limit and all emissions between 1-2GHz are below the AV limit.

Test Engineer: Jenner Liu

## INTERTEK TESTING SERVICES

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Company: Hisense Electric Co., Ltd.

Date of Test: April 09, 2014

Model: LTDN40D36US

Operating Mode: VGA

### Radiated Emissions

Polarization	Frequency (MHz)	Reading (dB $\mu$ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB $\mu$ V/m)	Limit at 3m (dB $\mu$ V/m)	Margin (dB)
Horizontal	178.186	47.2	20.0	10.0	37.2	43.5	-6.3
Horizontal	193.043	49.0	20.0	10.4	39.4	43.5	-4.1
Horizontal	267.306	45.8	20.0	14.1	39.9	46.0	-6.1
Horizontal	415.781	37.1	20.0	17.7	39.6	46.0	-6.4
Horizontal	1345.000	21.3	20.0	26.2	34.8	54.0	-19.2
Vertical	66.115	51.9	20.0	5.1	27.5	40.0	-12.5
Vertical	103.954	46.3	20.0	8.2	37.0	43.5	-6.5
Vertical	774.054	33.9	20.0	20.6	34.5	46.0	-11.5
Vertical	1371.250	21.5	20.0	29.7	31.2	54.0	-22.8

#### NOTES:

1. Quasi-Peak detector is used for frequency up to 1GHz and PEAK detector is used for frequency from 1-2GHz.
2. All measurements were made at 3 meters. Harmonic emissions not detected at the 3 meter distances were measured at 0.3- meter and an inverse proportional extrapolation was performed to compare the signal level to the 3 meter limit. No other harmonic emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. All emissions up to 1GHz are below the QP limit and all emissions between 1-2GHz are below the AV limit.

Test Engineer: Jenner Liu

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TRF No.: FCC 15C\_PC\_b  
FCC ID: W9HLCDD0041

## INTERTEK TESTING SERVICES

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- 3.4 Conducted Emission at Mains Terminal
- 3.5 Conducted Emission Configuration Photograph

Worst Case Conducted Configuration  
at  
0.411 MHz(VGA Mode)

For electronic filing, the worst case conducted emission configuration photograph is saved with filename: conducted photos.pdf.

## INTERTEK TESTING SERVICES

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### 3.6 Conducted Emission Data

Judgement: Passed by 4.3 dB margin (VGA Mode)

#### **TEST PERSONNEL:**

*Sign on file*

Jenner Liu Assistant Engineer  
*Typed/Printed Name*

April 09, 2014  
*Date*

## INTERTEK TESTING SERVICES

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Company: Hisense Electric Co., Ltd.

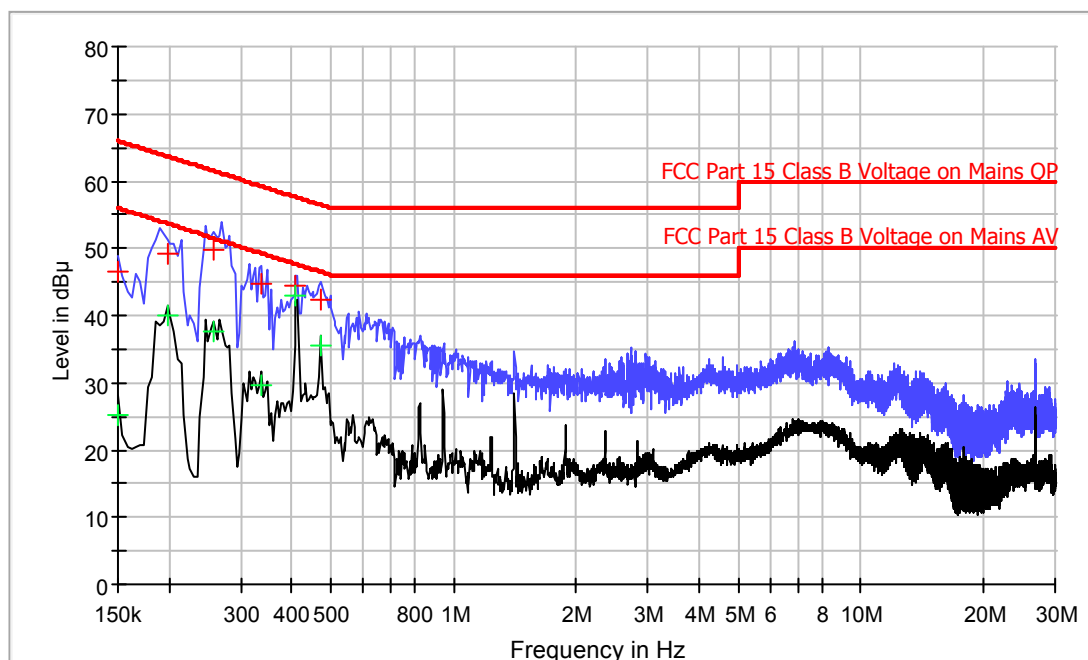
Date of Test: April 09, 2014

Model: LTDN40D36US

Operating Mode: VGA

Phase: Live

**Conducted Emission Test - FCC**



### Result Table QP

Frequency (MHz)	QuasiPeak (dB µ V)	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)
0.150	46.6	L1	9.8	19.4	66.0
0.198	49.2	L1	9.7	14.5	63.7
0.258	49.7	L1	9.7	11.8	61.5
0.338	44.8	L1	9.7	14.5	59.3
0.410	44.4	L1	9.7	13.2	57.6
0.470	42.5	L1	9.7	14.0	56.5

### Result Table AV

Frequency (MHz)	Average (dB µ V)	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)
0.150	25.1	L1	9.8	30.9	56.0
0.198	39.9	L1	9.7	13.8	53.7
0.258	37.7	L1	9.7	13.8	51.5
0.338	29.6	L1	9.7	19.7	49.3
0.410	42.9	L1	9.7	4.7	47.6
0.470	35.7	L1	9.7	10.8	46.5

Test Engineer: Jenner Liu

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TRF No.: FCC 15C\_PC\_b  
FCC ID: W9HLCDD0041

## INTERTEK TESTING SERVICES

Company: Hisense Electric Co., Ltd.

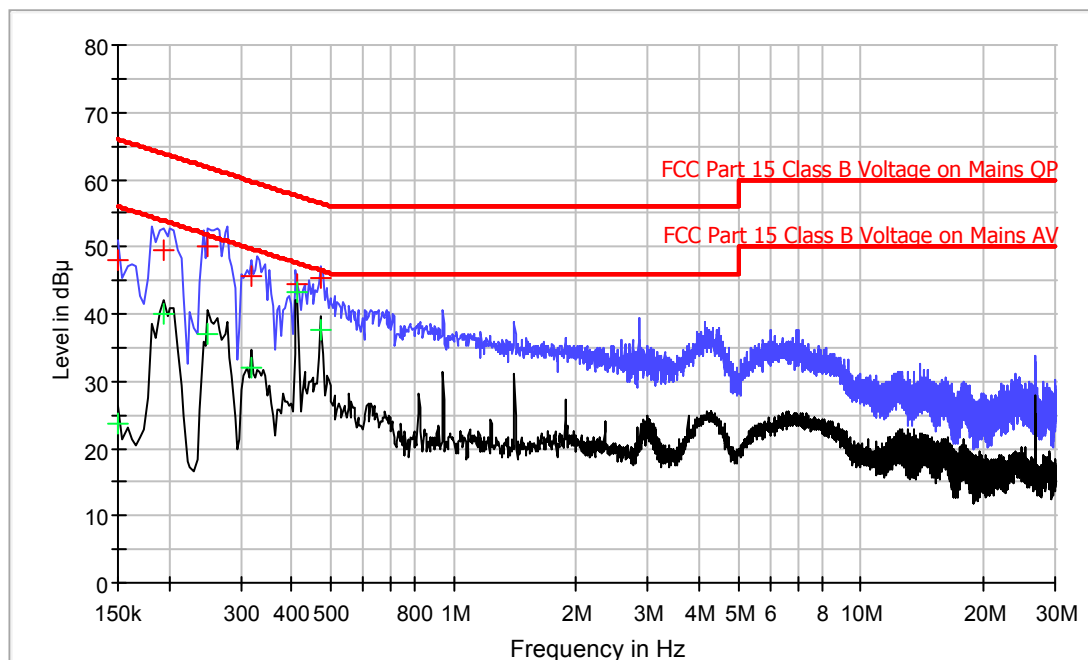
Date of Test: April 09, 2014

Model: LTDN40D36US

Operating Mode: VGA

Phase: Neutral

**Conducted Emission Test - FCC**



### Result Table QP

Frequency (MHz)	QuasiPeak (dB $\mu$ V)	Line	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V)
0.150	47.9	N	10.2	18.1	66.0
0.195	49.4	N	10.2	14.4	63.8
0.249	49.9	N	10.2	11.9	61.8
0.318	45.5	N	10.2	14.3	59.8
0.411	44.4	N	10.2	13.2	57.6
0.470	45.2	N	10.2	11.3	56.5

### Result Table AV

Frequency (MHz)	Average (dB $\mu$ V)	Line	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V)
0.150	23.8	N	10.2	32.2	56.0
0.195	40.1	N	10.2	13.7	53.8
0.249	37.2	N	10.2	14.6	51.8
0.318	32.0	N	10.2	17.8	49.8
0.411	43.3	N	10.2	4.3	47.6
0.470	37.7	N	10.2	8.8	46.5

Test Engineer: Jenner Liu

TRF No.: FCC 15C\_PC\_b

FCC ID: W9HLCDD0041

## INTERTEK TESTING SERVICES

Company: Hisense Electric Co., Ltd.

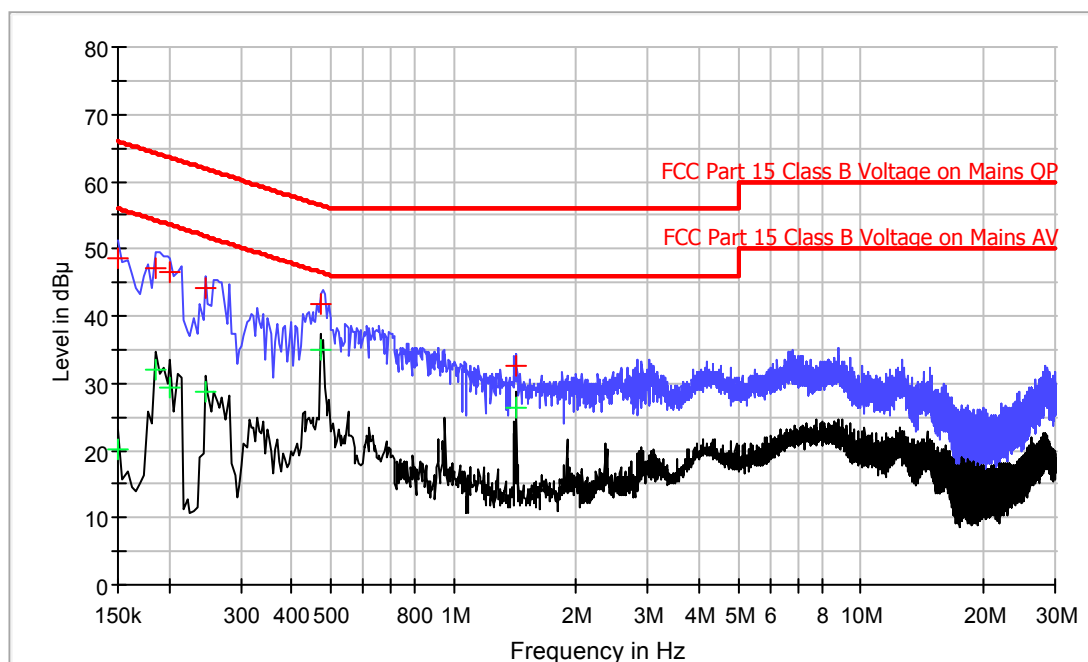
Date of Test: April 09, 2014

Model: LTDN40D36US

Operating Mode: HDMI In

Phase: Live

**Conducted Emission Test - FCC**



### Result Table QP

Frequency (MHz)	QuasiPeak (dB μ V)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.150	48.5	L1	9.8	17.5	66.0
0.186	47.1	L1	9.7	17.1	64.2
0.202	46.6	L1	9.7	16.9	63.5
0.246	44.1	L1	9.7	17.8	61.9
0.470	41.8	L1	9.7	14.7	56.5
1.426	32.5	L1	9.8	23.5	56.0

### Result Table AV

Frequency (MHz)	Average (dB μ V)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.150	20.1	L1	9.8	35.9	56.0
0.186	32.0	L1	9.7	22.2	54.2
0.202	29.3	L1	9.7	24.2	53.5
0.246	28.6	L1	9.7	23.3	51.9
0.470	34.9	L1	9.7	11.6	46.5
1.426	26.4	L1	9.8	19.6	46.0

Test Engineer: Jenner Liu

TRF No.: FCC 15C\_PC\_b

FCC ID: W9HLCDD0041



## INTERTEK TESTING SERVICES

Company: Hisense Electric Co., Ltd.

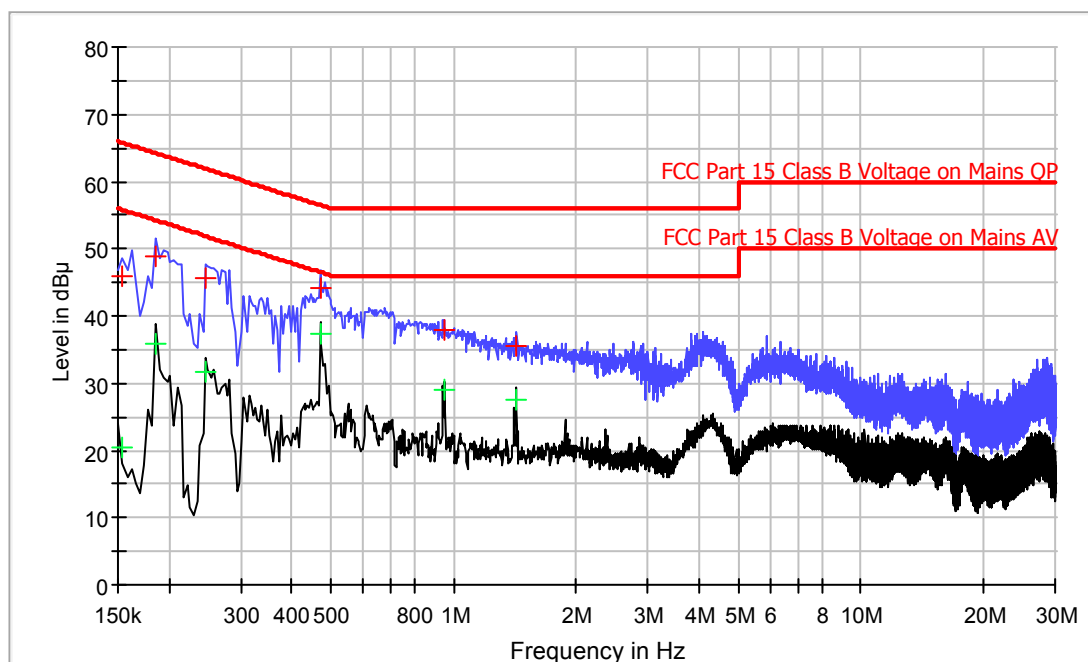
Date of Test: April 09, 2014

Model: LTDN40D36US

Operating Mode: HDMI In

Phase: Neutral

**Conducted Emission Test - FCC**



### Result Table QP

Frequency (MHz)	QuasiPeak (dB μV)	Line	Corr. (dB)	Margin (dB)	Limit (dB μV)
0.154	45.9	N	10.2	19.9	65.8
0.186	48.9	N	10.2	15.3	64.2
0.246	45.6	N	10.2	16.3	61.9
0.470	44.2	N	10.2	12.3	56.5
0.950	38.0	N	10.3	18.0	56.0
1.426	35.7	N	10.4	20.3	56.0

### Result Table AV

Frequency (MHz)	Average (dB μV)	Line	Corr. (dB)	Margin (dB)	Limit (dB μV)
0.154	20.4	N	10.2	35.4	55.8
0.186	35.8	N	10.2	18.4	54.2
0.246	31.8	N	10.2	20.1	51.9
0.470	37.3	N	10.2	9.2	46.5
0.950	28.9	N	10.3	17.1	46.0
1.426	27.7	N	10.4	18.3	46.0

Test Engineer: Jenner Liu

TRF No.: FCC 15C\_PC\_b

FCC ID: W9HLCDD0041

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**EXHIBIT 4**  
**EQUIPMENT PHOTOGRAPHS**

## INTERTEK TESTING SERVICES

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### 4.0 Equipment Photographs

For electronic filing, photographs of the tested EUT are saved with filename: external photos.pdf and internal photos.pdf.

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**EXHIBIT 5**  
**PRODUCT LABELLING**

## INTERTEK TESTING SERVICES

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### 5.0 Product Labelling

For electronics filing, the FCC ID label artwork and the label location are saved with filename: label.pdf.

**INTERTEK TESTING SERVICES**

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**EXHIBIT 6**  
**TECHNICAL SPECIFICATIONS**

## INTERTEK TESTING SERVICES

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### 6.0 Technical Specifications

For electronic filing, the block diagram of the tested EUT is saved with filename: block.pdf.

**INTERTEK TESTING SERVICES**

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**EXHIBIT 7**  
**INSTRUCTION MANUAL**



## INTERTEK TESTING SERVICES

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### 7.0 Instruction Manual

For electronic filing, a preliminary copy of the Instruction Manual is saved with filename: manual.pdf.

This manual will be provided to the end-user with each unit sold / leased in the United States.

**INTERTEK TESTING SERVICES**

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**EXHIBIT 8**

**MISCELLANEOUS INFORMATION**

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### 8.0 Miscellaneous Information

This miscellaneous information includes emission measuring procedure.

## INTERTEK TESTING SERVICES

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### 8.1 Emissions Test Procedures

The following is a description of the test procedure used by Intertek Testing Services in the measurements of computer peripheral operating under Part 15, Subpart B rules.

The test set-up and procedures described below are designed to meet the requirements of ANSI C63.4 – 2009.

The computer peripheral equipment under test (EUT) is placed on a wooden turntable which is four feet in diameter and approximately one meter in height above the ground plane. During the radiated emissions test, the turntable is rotated and any cables leaving the EUT are manipulated to find the configuration resulting in maximum emissions. The antenna height and polarization are varied during the testing to search for maximum signal levels. The height of the antenna is varied from one to four meters.

Detector function for radiated emissions are in QP mode from the frequency band 30MHz to 1GHz with RBW setting 120kHz and in PK & AV mode from frequency band 1GHz to 2GHz with RBW setting 1MHz. Detector function for conducted emissions are in QP & AV mode and IFBW setting is 9kHz from the frequency band 150kHz to 30MHz.

For radiated emission, the frequency range scanned is 30MHz to 2GHz. For line-conducted emissions, the range scanned is 150kHz to 30MHz.

## INTERTEK TESTING SERVICES

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### 8.1 Emissions Test Procedures (cont'd)

The EUT is warmed up for 15 minutes prior to the test.

Conducted measurements are made as described in ANSI C63.4 – 2009.

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**EXHIBIT 9**  
**TEST EQUIPMENT LIST**

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## INTERTEK TESTING SERVICES

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### 9.0 Test Equipment List

Equipment No.	Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Due Date
SZ061-03	Biconilog Antenna	ETS	3142C	00066460	29-Jun-13	29-Jun-2014
SZ185-01	EMI Receiver	R & S	ESCI	100547	10-Mar-2014	10-Mar-2015
SZ188-01	Anechoic Chamber	ETS	RFD-F/A-100	02 Mar 2013	02-Mar-2013	02-Mar-2015
SZ062-04	RF Cable	RADIALL	RG 213U	--	08-Jan-2014	08-Jul-2014
SZ185-02	EMI Test Receiver	R&S	ESCI	100692	09-Nov-2013	09-Nov-2014
SZ187-01	Two-Line V-Network	R&S	ENV216	100072	09-Nov-2013	09-Nov-2014
SZ187-02	Two-Line V-Network	R&S	ENV216	100073	09-Nov-2013	09-Nov-2014
SZ188-03	Shielding Room	ETS	RFD-100	4100	23-Aug-2013	23-Aug-2014