

FCC EVALUATION REPORT FOR CERTIFICATION

FCC Class B (Class II Permissive Change)

Applicant : LG Electronics Inc.

19-1, Cheongho-ri, Jinwi-myeon,

Pyeongteak-si, Gyeonggi-do, Korea.

Attn: Mr. Myoung-Kyu Lee, Chief research engineer

Date of Issue : April 22, 2010

Order Number: GETEC-C1-10-104

Test Report Number: GETEC-E3-10-050

Test Site: Gumi College EMC Center

FCC Registration Number: (100749, 443957)

FCC ID.: BEJHSTND-2591-G

Applicant: LG Electronics Inc.

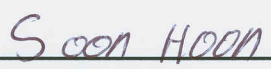
Rule Part(s)	: FCC Part 15 Subpart B
Equipment Class	: Class B computing device peripheral (JBP)
EUT Type	: LCD Monitor
Type of Authority	: Certification
Model Name	: HSTND-2591-G, LD4200, LD4200tm
Trade Name	: HP
Class II Change(s)	: With alternate LCD panel

This equipment has been shown to be in compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.4-2003 / Canadian standard ICES-003

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

Tested by,

Reviewed by,


Soon-Hoon Jeong, Engineer
GUMI College EMC center


Jae-Hoon Jeong, Senior Engineer
GUMI College EMC center



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APPENDIX A – INFORMATION OF CLASS II PERMISSIVE CHANGE

APPENDIX B – TEST SET-UP PHOTOGRAPHS



Scope: Measurement and determination of electromagnetic emissions (EME) of radio frequency devices including intentional and / or unintentional radiators for compliance with technical rules and regulations of the Federal Communications Commission.

1. General Information

Applicant: LG Electronics Inc.

Applicant Address: 19-1, Cheongho-ri, Jinwi-myeon, Pyeongteak-si, Gyeonggi-do, Korea.

Manufacturer: LG Electronics Inc.

Manufacturer Address: 19-1, Cheongho-ri, Jinwi-myeon, Pyeongteak-si, Gyeonggi-do, Korea.

Contact Person: Mr. Myoung-Kyu Lee, Chief research engineer

Tel Number: +82-31-610-9623

- **FCC ID.** BEJHSTND-2591-G
- **EUT Type** LCD Monitor
- **Model Name** HSTND-2591-G, LD4200, LD4200tm
- **Trade Name** HP
- **Serial Number** Prototype
- **Rule Part(s)** FCC Part 15 Subpart B
- **Type of Authority** Certification
- **Test Procedure(s)** ANSI C63.4 (2003) / Canadian standard ICES-003
- **Dates of Test** April 16 ~ 20, 2010
- **Place of Test** **Gumi College EMC Center** (FCC Registration Number: 100749, 443957)
407, Bugok-dong, Gumi-si, Gyeongbuk, Korea.
- **Test Report Number** GETEC-E3-10-050
- **Dates of Issue** April 22, 2010
- **Class II Change(s)** With alternate LCD panel



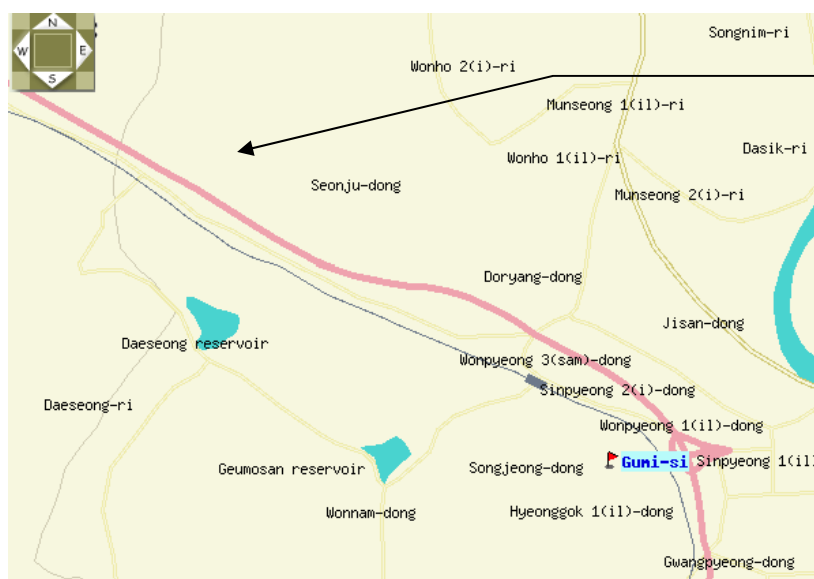
2. Introduction

The measurement procedure described in American National Standard for Methods of Measurement of Radio-Nose Emissions From Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz (ASNI C63.4-2003) was used in determining radiated and conducted emissions emanating from **LG Electronics Inc. LCD Monitor (Model Name: HSTND-2591-G)**

These measurement tests were conducted at **Gumi College EMC Center**.

The site address is 407, Bugok-dong, Gumi-si, Gyeongbuk, Korea.

This test site is one of the highest point of Gumi 1 college at about 200 km away from Seoul city and 40 km away from Daegu city. It is located in the valley surrounded by mountains in all directions where ambient radio signal conditions are quiet and a favorable area to measure the radio frequency interference on open field test site for the computing and ISM devices manufactures. The detailed description of the measurement facility was found to be in compliance with the requirements of §2.948 according to ANSI C63.4 (2003)



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Fig 1. The map above shows the Gumi College in vicinity area.



3. Product Information

3.1 Description of EUT

The Equipment under Test (EUT) is the **LG Electronics Inc. LCD Monitor (Model Name: HSTND-2591-G) FCC ID.: BEJHSTND-2591-G**

- Equipment	: LCD Monitor
- Model Name	: HSTND-2591-G, LD4200, LD4200tm
- Serial Number	: Prototype
- LCD Panel	: 42 inches (106.73 cm) TFT (Thin Film Transistor) LCD (Liquid Crystal Display) Panel Viewable Image Size: 106.73 cm diagonal 0.681 mm × 0.681 mm (Pixel Pitch)
- Rated Voltage	: AC (100 – 240) V~, (50/60) Hz, 2.2 A
- Power Consumption	: 220 W
- Dimensions	: 99.9 cm (W) × 68.0 cm (H) × 29.3 cm (D)
- Weight	: 34.24 kg
- Maximum Resolution	: RGB: 1 920 × 1 080 / 60 Hz HDMI/DVI: 1 920 × 1 080 / 60 Hz
- Horizontal Frequency	: RGB: 30 kHz – 83 kHz HDMI/DVI: 30kHz – 83 kHz
- Vertical Frequency	: RGB: 56 Hz – 76 Hz HDMI/DVI: 56 Hz – 60 Hz
- Synchronization Type	: Composite/Separate/Digital
- Input Connector	: 15-pin D-Sub type, HDMI (digital), S-Video, Composite Video, Component, RS-232C
- Maximum Frequency Range	: 210 MHz



3.2 Support Equipment / Cables used

3.2.1 Used Support Equipment

Description	Manufacturer	Model Name	S/N & FCC ID.
PC	Hewlett Packard	m9425f	S/N: CNX84403CT FCC ID.: PPQWN4300R
Video card	NVIDIA	Geforce 9500GS	S/N: MS-V133B0810370406 FCC ID.: V133
Keyboard	Hewlett Packard	5189	S/N: 5189-6077 FCC ID.: DoC
PS2 mouse	Suzho ligitecch electronics	M-S35	S/N: 340249-001 FCC ID.: DZL211029
Joystick	MICROSOFT	X05-92626	S/N: 9262600296169 FCC ID.: DoC
DVD player	LG Electronics Inc	LC-954	S/N: 3850R-Z674K FCC ID.: DoC
Monitor	DIBOSS	LT-15S5MF	S/N: D060403100019-C FCC ID.: DoC

See “Appendix B – Test Setup Photographs” for actual system test set-up

3.2.2 System configuration

Description	Manufacturer	Model Name	S/N & FCC ID.
Speaker	LG Electronics Inc.	SP-0000K	S/N: N/A FCC ID.: -



3.2.3 Used Cable(s)

Cable Name	Condition	Description
Power cable	Connected to the EUT	1.80 m unshielded
RS-232C(Control) in cable	Connected to the EUT and EUT(RS-232C out)	1.80 m shielded
RGB(Analog) in cable	Connected to the EUT and PC	1.80 m shielded with two ferrite cores
RGB(Analog) out cable	Connected to the EUT and monitor	1.80 m shielded with two ferrite cores
HDMI/DVI(Digital) in cable	Connected to the EUT and PC	2.00 m shielded
Audio(RGB/DVI) in cable	Connected to the EUT and PC	1.80 m shielded with a ferrite core
Remote control in cable	Connected to the EUT and PC	1.80 m shielded
Component cable	Connected to the EUT and DVD player	2.00 m shielded
Component sound cable	Connected to the EUT and DVD player	1.50 m shielded
AV in cable	Connected to the EUT and DVD player	2.00 m shielded
AV out cable	Connected to the EUT and monitor	2.00 m shielded
Upstream(USB) in cable	Connected to the EUT and PC	1.80 m shielded with a ferrite core
Speaker out cable	Connected to the EUT and speaker	0.95 m unshielded
S-Video in cable	Connected to the EUT and DVD player	2.00 m shielded

3.3 Modification Item(s)

- None



4. Description of tests

4.1 Test Condition

The EUT was installed, arranged and operated in a manner that is most representative of equipment as typically used.

The measurements were carried out while varying operating modes and cable positions within typically arrangement to determine maximum emission level.

The representative and worst test mode(s) were noted in the test report.

- Test Voltage / Frequency : AC 120 V / 60 Hz

- Test Mode(s)

-. Monitor mode

Radiated emission: **1 920 × 1 080 / 60 Hz (RGB: Analog): Worst-case**

1 920 × 1 080 / 60 Hz (HDMI/DVI: Digital)

Conducted emission: **1 920 × 1 080 / 60 Hz (RGB: Analog): Worst-case**

1 920 × 1 080 / 60 Hz (HDMI/DVI: Digital)

1 024 × 768 / 60 Hz (RGB: Analog), 640 × 480 / 60 Hz (Analog)

- ◆ Operating test pattern: -. “H” character scrolling mode (Font size: 10)
 - . Black background white character
 - . Brightness and contrast was adjusted as maximum level
 - . Continuous playback of 1 kHz audio file with winamp player
 - . Activated touch function

“The verification report for AV mode would be issued by LG Electronics Inc.”



4.2 Conducted Emission

The Line conducted emission test facility is inside a 4 m × 8 m × 2.5 m shielded enclosure. (FCC Registration No.: 100749)

The EUT was placed on a non-conducting 1.0 m by 1.5 m table, which is 0.8 m in height and 0.4 m away from the vertical wall of the shielded enclosure.

The EUT is powered from the Rohde & Schwarz LISN (ESH2-Z5) and the support equipment is powered from the Rohde & Schwarz LISN (ESH3-Z5). Powers to the LISN are filtered by high-current high insertion loss power line filter.

Sufficient time for EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition.

The RF output of the LISN was connected to the EMI test receiver (Rohde & Schwarz, ESCS30).

The EMI test receiver was scanned from 150 kHz to 30 MHz with 20 ms sweep time to determine the frequency producing the maximum EME from the EUT. The frequency producing the maximum level was re-examined using Quasi-Peak mode of the EMI test receiver.

The bandwidth of Quasi-peak mode was set to 9 kHz. Each emission was maximized consistent with typical applications by varying the configuration of the test sample. Interface cables were connected to the available interface ports of the test unit. The effect of varying the position of cables was investigated to find the configuration that produces maximum diagram emission. Excess cable lengths were bundled at center with 30 cm ~ 40 cm.

Each EME reported was calibrated using the R/S signal generator

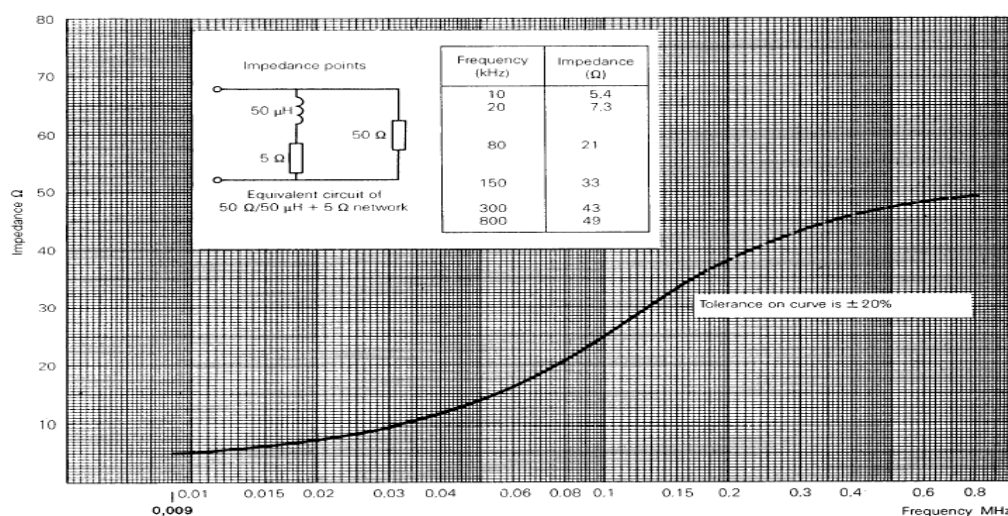


Fig 2. Impedance of LISN



4.3 Radiated Emission

Preliminary measurements were conducted 3 m semi anechoic chamber using broadband antennas to determine the frequency producing the maximum EME. Appropriate precaution was taken to ensure that all EME from the EUT were maximized and investigated. The technology configuration, mode of operation and turntable azimuth with respect to antenna was note for each frequency found.

Final measurements were made 3 m chamber (FCC registration No.: 443957) and/or 10 m OATS (FCC registration No.: 100749).

Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition.

Each frequency found during pre-scan measurements was re-examined and investigated using EMI test receiver. The detector function was set to CISPR quasi-peak mode average mode and the bandwidth of the receiver was set to 120 kHz or 1 MHz depending on the frequency or type of signal.

The EUT, support equipment and interconnecting cables were reconfigured to the setup producing the maximum emission for the frequency and were placed on top of a 0.8 m high non-metallic 1.0 m × 1.5 m table.

The turntable containing the test sample was rotated; the antenna height was varied 1 to 4 meter and stopped at the azimuth or height producing the maximum emission.

Each EME reported was calibrated using the R/S signal generator

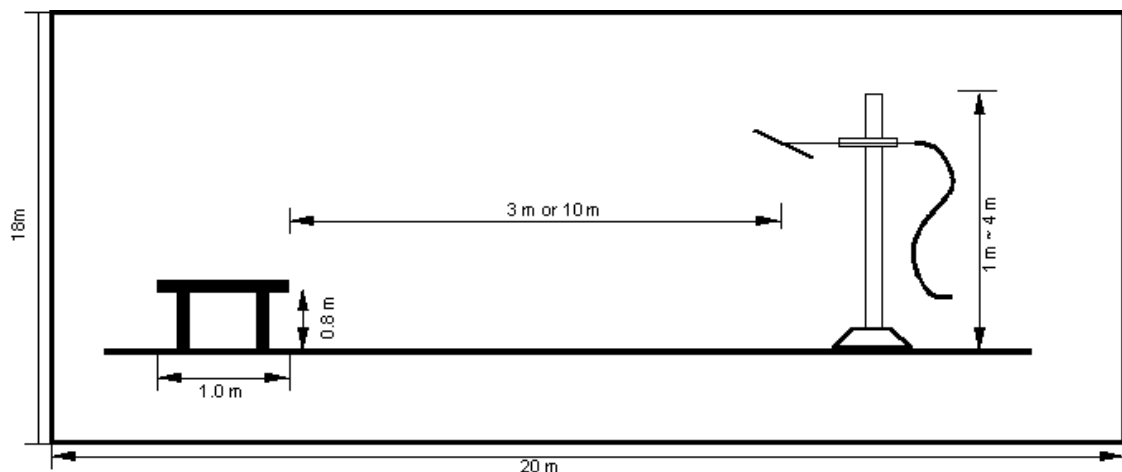


Fig 3. Dimensions of test site.



5. Conducted Emission

5.1 Operating Environment

Temperature : 24 °C
Relative Humidity : 35 % R.H.

5.2 Test Set-up

The conducted emission measurements were performed in the shielded room.

The EUT was placed on wooden table, 0.8 m heights above the floor, 0.4 m from the reference ground plane (GRP) wall and 0.8 m from AMN.

AMN is bonded on horizontal reference ground plane.

The ground plane, which was electrically bonded to the shield room, ground system and all power lines entering the shield room, were filtered.

5.3 Measurement Uncertainty

The measurement uncertainty was calculated in accordance with ISO "Guide to the expression of uncertainty in measurement."

The measurement uncertainty was given with a confidence of 95 %.

Test Items	Uncertainty	Remark
Conducted emission (9 kHz ~ 150 kHz)	± 2.69 dB	Confidence levels of 95 % ($k = 2$)
Conducted emission (150 kHz ~ 30 MHz)	± 4.16 dB	Confidence levels of 95 % ($k = 2$)



5.4 Limit

RFI Conducted	FCC Limit(dB μ V/m) Class B	
Freq. Range	Quasi-Peak	Average
150 kHz ~ 0.5 MHz	66 ~ 56*	56 ~ 46*
0.5 MHz ~ 5 MHz	56	46
5 MHz ~ 30 MHz	60	50
*Limits decreases linearly with the logarithm of frequency.		

5.5 Test Equipment used

Model Name	Manufacturer	Description	Serial Number	Due to Calibration
■ - ESCS30	Rohde & Schwarz	EMI test receiver	839809/003	12. 10. 2010
■ - ESH3-Z5	Rohde & Schwarz	LISN	838979/020	12. 10. 2010
■ - ESH2-Z5	Rohde & Schwarz	LISN	829991/009	12. 10. 2010
□ - ISN T8	TESEQ. GmbH	ISN	24568	10. 16. 2010

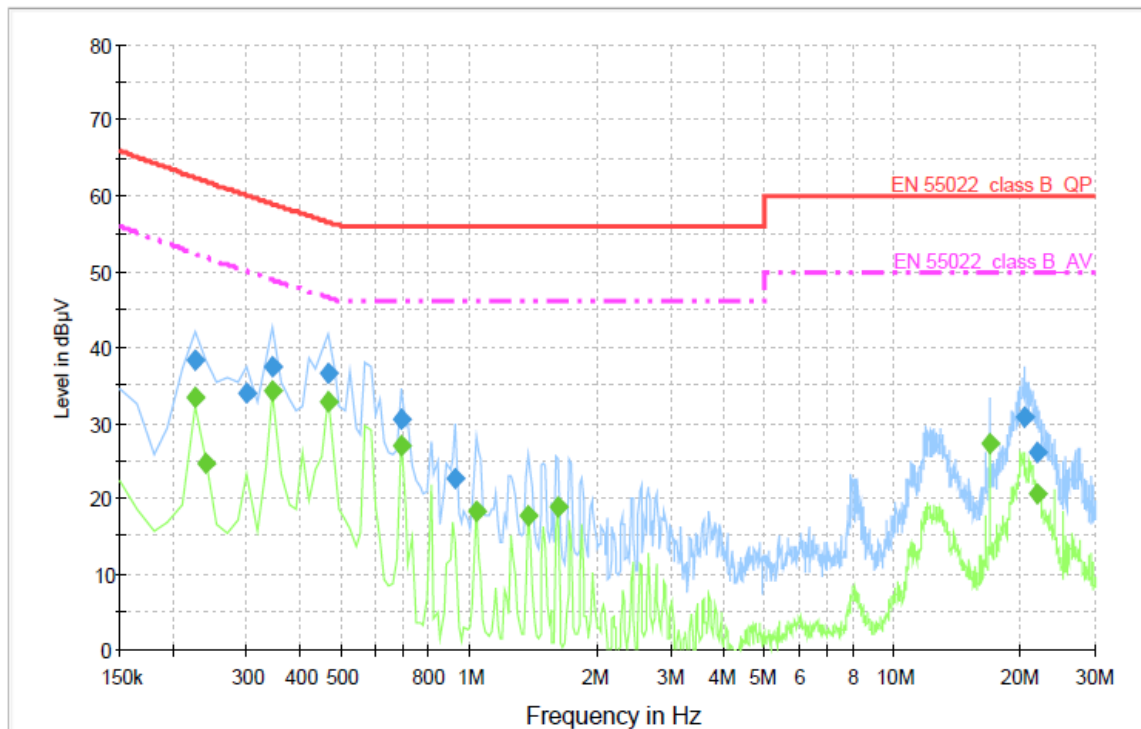
5.6 Test data for Conducted Emission

-. Test Date : April 16, 2010
-. Resolution Bandwidth : 9 kHz
-. Frequency Range : 0.15 MHz ~ 30 MHz



◆ Operating condition: 1 920 × 1 080 / 60 Hz (RGB: Analog)

Voltage with 4-Line-LISN_L1



Final Measurement Detector 1

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.225000	38.1	1000.000	9.000	GND	L1	10.0	24.3	62.4	
0.300000	33.9	1000.000	9.000	GND	L1	10.0	26.1	60.0	
0.345000	37.3	1000.000	9.000	GND	L1	10.0	21.6	58.9	
0.465000	36.5	1000.000	9.000	GND	L1	10.0	20.1	56.6	
0.690000	30.5	1000.000	9.000	GND	L1	10.0	25.5	56.0	
0.930000	22.5	1000.000	9.000	GND	L1	10.0	33.5	56.0	
20.325000	30.8	1000.000	9.000	GND	L1	11.1	29.2	60.0	
21.855000	26.2	1000.000	9.000	GND	L1	11.1	33.8	60.0	

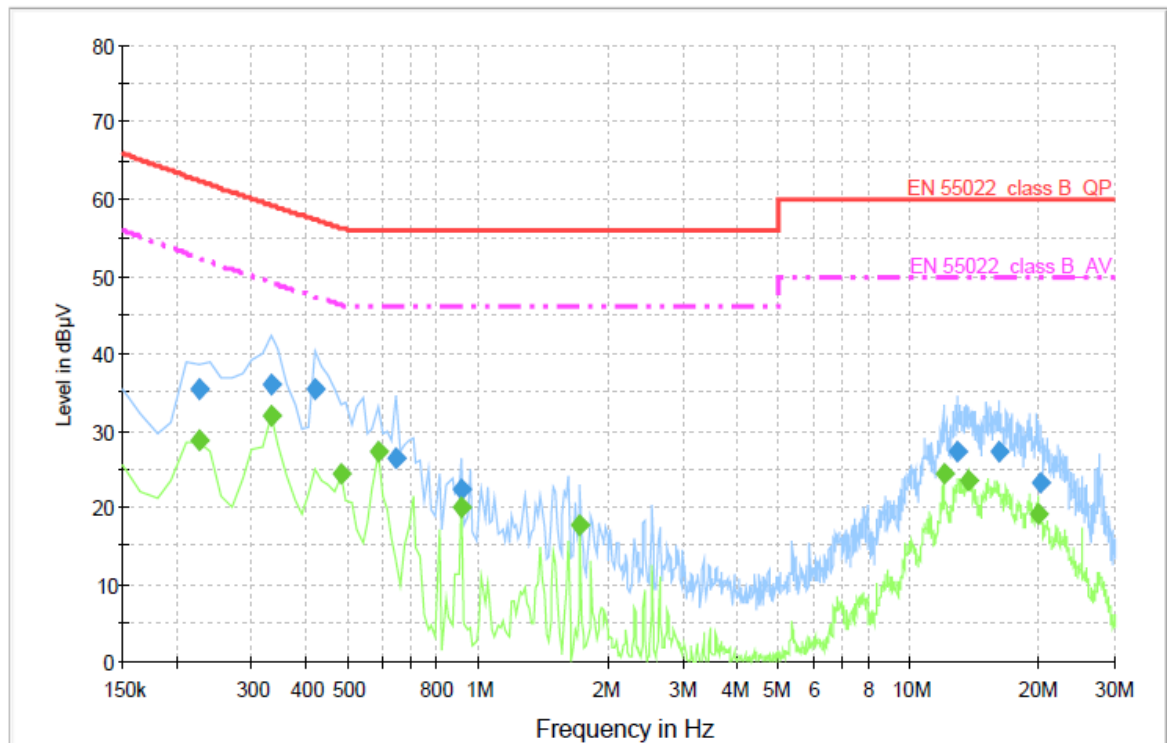
Final Measurement Detector 2

Frequency (MHz)	Average (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.225000	33.3	1000.000	9.000	GND	L1	10.0	19.1	52.4	
0.240000	24.6	1000.000	9.000	GND	L1	10.0	27.3	51.9	
0.345000	34.1	1000.000	9.000	GND	L1	10.0	14.8	48.9	
0.465000	32.7	1000.000	9.000	GND	L1	10.0	13.8	46.5	
0.690000	27.0	1000.000	9.000	GND	L1	10.0	19.0	46.0	
1.035000	18.2	1000.000	9.000	GND	L1	10.0	27.8	46.0	
1.380000	17.8	1000.000	9.000	GND	L1	10.1	28.2	46.0	
1.620000	18.8	1000.000	9.000	GND	L1	10.1	27.2	46.0	
16.905000	27.3	1000.000	9.000	GND	L1	10.8	22.7	50.0	
21.930000	20.6	1000.000	9.000	GND	L1	11.1	29.4	50.0	

< Fig 4. Conducted emission result (Live line)>



Voltage with 4-Line-LISN_N



Final Measurement Detector 1

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.225000	35.3	1000.000	9.000	GND	N	10.0	27.1	62.4	
0.330000	35.9	1000.000	9.000	GND	N	10.0	23.4	59.3	
0.420000	35.4	1000.000	9.000	GND	N	10.0	21.9	57.3	
0.645000	26.2	1000.000	9.000	GND	N	10.0	29.8	56.0	
0.915000	22.2	1000.000	9.000	GND	N	10.0	33.8	56.0	
12.930000	27.1	1000.000	9.000	GND	N	10.5	32.9	60.0	
16.230000	27.1	1000.000	9.000	GND	N	10.6	32.9	60.0	
20.100000	23.3	1000.000	9.000	GND	N	10.8	36.8	60.0	

Final Measurement Detector 2

Frequency (MHz)	Average (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.225000	28.8	1000.000	9.000	GND	N	10.0	23.6	52.4	
0.330000	31.8	1000.000	9.000	GND	N	10.0	17.4	49.2	
0.480000	24.4	1000.000	9.000	GND	N	10.0	21.9	46.3	
0.585000	27.3	1000.000	9.000	GND	N	10.0	18.7	46.0	
0.915000	20.1	1000.000	9.000	GND	N	10.0	25.9	46.0	
1.725000	17.8	1000.000	9.000	GND	N	10.1	28.2	46.0	
12.030000	24.5	1000.000	9.000	GND	N	10.5	25.5	50.0	
13.665000	23.5	1000.000	9.000	GND	N	10.5	26.5	50.0	
20.010000	19.1	1000.000	9.000	GND	N	10.8	30.9	50.0	

< Fig 5. Conducted emission result (Neutral line)>



6. Radiated Emission

6.1 Operating Environment

Temperature : 23 °C
Relative Humidity : 40 % R.H.

6.2 Test Set-up

A preliminary and final measurement was at 3 m anechoic chamber.

The EUT was placed on a non-conductive turntable approximately 0.8 m above the ground plane.

The turntable with EUT was rotated 360°, and the antenna was varied in height between 1.0 m and 4.0 m in order to determine the maximum emission levels.

This procedure was performed for both horizontal and vertical polarization of the receiving antenna.

6.3 Measurement Uncertainty

The measurement uncertainty was calculated in accordance with ISO “Guide to the expression of uncertainty in measurement”.

The measurement uncertainty was given with a confidence of 95 %.

Test Items(Chamber)	Uncertainty	Remark
Radiated emission (30 MHz ~ 300 MHz, 3 m, Vertical)	± 4.32 dB	Confidence levels of 95 % ($k = 2$)
Radiated emission (30 MHz ~ 300 MHz, 3 m, Horizontal)	± 4.21 dB	Confidence levels of 95 % ($k = 2$)
Radiated emission (300 MHz ~ 1 000 MHz, 3 m, Vertical)	± 3.96 dB	Confidence levels of 95 % ($k = 2$)
Radiated emission (300 MHz ~ 1 000 MHz, 3 m, Horizontal)	± 3.97 dB	Confidence levels of 95 % ($k = 2$)



6.4 Limit

Frequency (MHz)	FCC Limit @ 3 m. dB μ V/m	CISPR Limit @ 10 m. dB μ V/m
30 ~ 88	40.0	30.0
88 ~ 216	43.5	30.0
216 ~ 230	46.0	30.0
230 ~ 960	46.0	37.0
960 ~ 1 000	54.0	37.0
> 1 000	54.0	No Specified limit

6.5 Test Equipment used

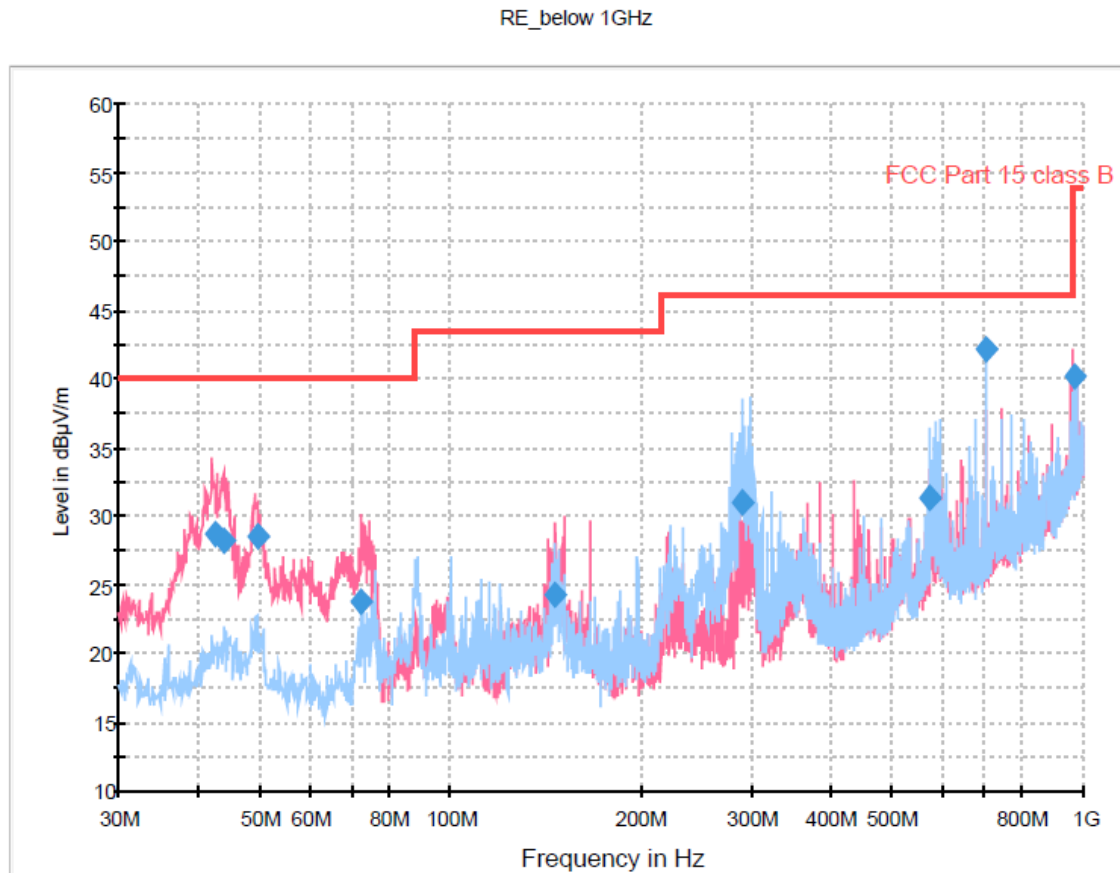
Model Name	Manufacturer	Description	Serial Number	Due to Calibration
■ - ESI	Rohde & Schwarz	EMI test receiver	830482/010	12. 11. 2010
■ - VULB9160	Schwarzbeck	Broadband Test Antenna	3193	03. 11. 2012
■ - BBHA9120D	Schwarzbeck	Horn ANT	207	12. 22. 2011
■ - MCU066	matur GmbH	Position Controller	1390306	N/A
■ - TT2.5SI	matur GmbH	Turntable	1390307	N/A
■ - AM 4.0	matur GmbH	Antenna Mast	1390308	N/A
■ - AFS 44 00101800-25-10P-44	MITEQ	Preamplifier	1258943	11. 12. 2010

6.6 Test data for Radiated Emission

- Test Date : April 20, 2010
- Resolution Bandwidth : 120 kHz/1 MHz
- Frequency Range : 30 MHz ~ 2 000 MHz
- Measurement Distance : 3 m
- Note : The highest frequency of the internal source of the EUT is between 108 MHz and 500 MHz (210 MHz). The measurement was made up to 2 000 MHz.



- ◆ Operating Condition: 1 920 × 1 080 / 60 Hz (RGB: Analog)
Red trace: Vertical polarization, Blue trace: Horizontal polarization



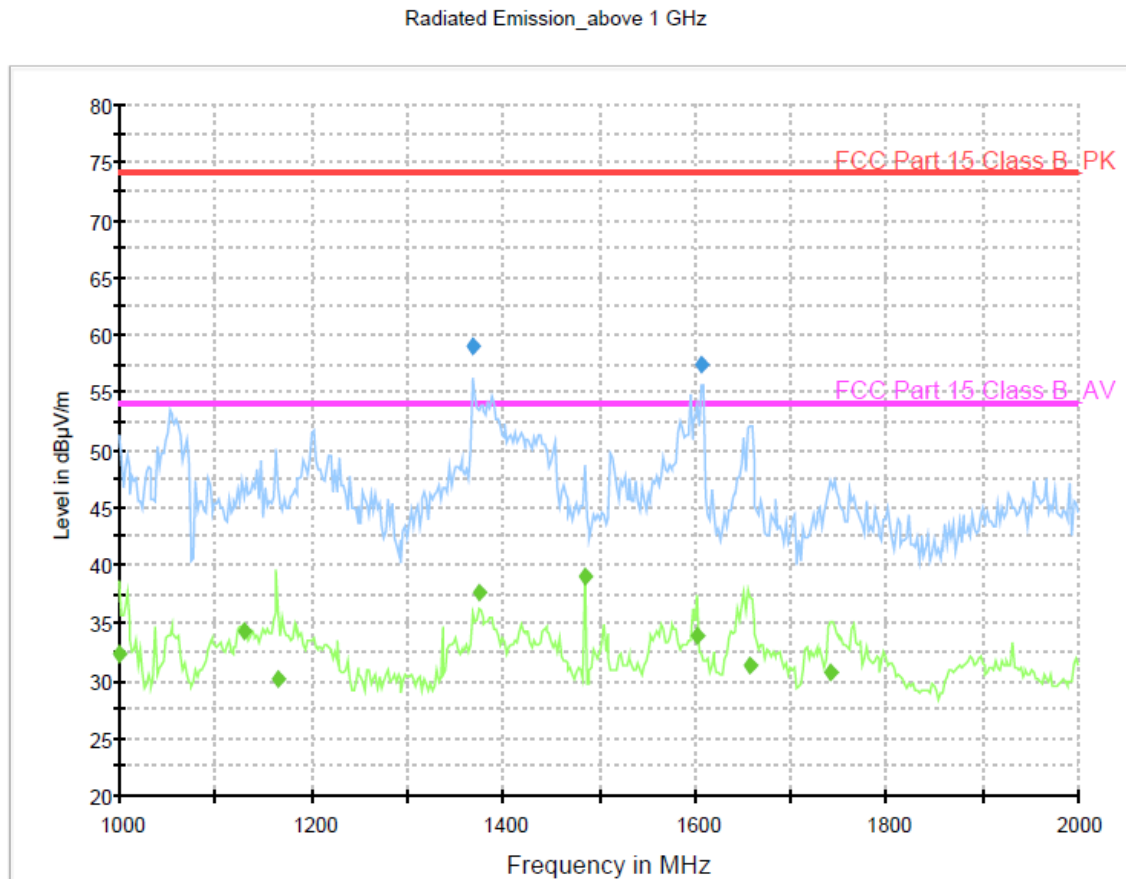
Final Result [1]

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)
42.825000	28.8	1000.0	120.000	100.0	V	175.0	12.5	11.24	40.00
44.003750	28.2	1000.0	120.000	100.0	V	175.0	12.5	11.76	40.00
49.617500	28.5	1000.0	120.000	100.0	V	234.0	13.3	11.52	40.00
72.437500	23.7	1000.0	120.000	100.0	V	349.0	10.9	16.30	40.00
146.885000	24.3	1000.0	120.000	100.0	V	336.0	14.8	19.20	43.50
288.747500	31.0	1000.0	120.000	100.0	H	221.0	16.3	14.96	46.00
572.782500	31.2	1000.0	120.000	100.0	H	125.0	22.5	14.76	46.00
702.027500	41.6	1000.0	120.000	130.0	H	160.0	23.5	4.42	46.00
973.507500	40.1	1000.0	120.000	100.0	H	208.0	30.6	5.90	46.00

< Fig 6. Radiated emission result (30 MHz ~ 1 000 MHz)>



- ◆ Operating Condition: 1 920 × 1 080 / 60 Hz (RGB: Analog)
Green trace: Average detector, Blue trace: Peak detector



Final Result 1

Frequency (MHz)	MaxPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
1369.737475	59.0	100.0	1000.000	130.0	V	160.0	-14.4	15.0	74.0
1607.818437	57.4	100.0	1000.000	138.0	H	143.0	-13.6	16.6	74.0

Final Result 2

Frequency (MHz)	Average (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
1000.000000	32.3	100.0	1000.000	193.0	V	354.0	-15.9	21.7	54.0
1130.460521	34.2	100.0	1000.000	155.0	V	215.0	-15.3	19.8	54.0
1164.528657	30.0	100.0	1000.000	100.0	H	130.0	-15.1	24.0	54.0
1376.149499	37.5	100.0	1000.000	250.0	V	167.0	-14.4	16.5	54.0
1485.169940	39.0	100.0	1000.000	100.0	V	175.0	-14.3	15.0	54.0
1603.006413	33.9	100.0	1000.000	138.0	V	154.0	-13.6	20.1	54.0
1658.310621	31.3	100.0	1000.000	138.0	V	167.0	-13.6	22.7	54.0
1740.882966	30.6	100.0	1000.000	180.0	V	175.0	-13.4	23.4	54.0

< Fig 7. Radiated emission result (1 000 MHz ~ 2 000 MHz)>



7. Sample Calculations

$$\begin{aligned} \text{dB}\mu\text{V} &= 20 \text{ Log}_{10}(\mu\text{V}/\text{m}) \\ \text{dB}\mu\text{V} &= \text{dBm} + 107 \\ \mu\text{V} &= 10^{(\text{dB}\mu\text{V}/20)} \end{aligned}$$

7.1 Example 1 :

■ 20.3 MHz

Class B Limit	= 250 μV = 48 dB μV
Reading	= 39.2 dB μV
$10^{(39.2\text{dB}\mu\text{V}/20)}$	= 91.2 μV
Margin	= 48 dB μV - 39.2 dB μV = 8.8 dB

7.2 Example 2 :

■ 66.7 MHz

Class B Limit	= 100 $\mu\text{V}/\text{m}$ = 40.0 dB $\mu\text{V}/\text{m}$
Reading	= 31.0 dB μV
Antenna Factor + Cable Loss = 5.8 dB	
Total	= 36.8 dB $\mu\text{V}/\text{m}$
Margin	= 40.0 dB $\mu\text{V}/\text{m}$ - 36.8 dB $\mu\text{V}/\text{m}$ = 3.2 dB



8. Recommendation & Conclusion

The data collected shows that the **LG Electronics Inc. LCD Monitor (Model Name: HSTND-2591-G)** was complies with §15.107 and 15.109 of the FCC Rules.