



FCC EVALUATION REPORT FOR CERTIFICATION

Manufacturer : LG Electronics Inc.

642, Jinpyeong-dong, Gumi-si,

Gyeongbuk, 730-360, Korea.

Attn: Mr. Sang-Wook Lee, Chief research engineer

Date of Issue : May 21, 2009

Order Number: GETEC-C1-09-113

Test Report Number: GETEC-E3-09-060

Test Site: Gumi College EMC Center

FCC Registration Number: (100749, 443957)

FCC ID.: BEJ26LU55UB

Applicant: LG Electronics Inc.

Rule Part(s)	: FCC Part 15 Subpart B
Equipment Class	: Class B computing device peripheral (JBP)
EUT Type	: LCD TV/Monitor
Type of Authority	: Certification
Model Name	: 26LU55-UB
Trade Name	: LG

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,


Hyoung Seop Kim, Associate Engineer
GUMI College EMC center


Tae-Sig Park, Technical Manager
GUMI College EMC center



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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: 642, Jinpyeong-dong, Gumi-si, Gyeongbuk, Korea.

Manufacturer: LG Electronics Inc.

Manufacturer Address: 642, Jinpyeong-dong, Gumi-si, Gyeongbuk, Korea.

Contact Person: Mr. Sang -Wook Lee, Chief research engineer

Tel Number: +82-54-470-5430

- **FCC ID.** BEJ26LU55UB
- **EUT Type** LCD TV/Monitor
- **Model Name** 26LU55-UB
- **Trade Name** LG
- **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** May 18 ~ 19, 2009
- **Place of Test** **Gumi College EMC Center** (FCC Registration No.: 100749, 443957)
407, Bugok-dong, Gumi-si, Gyeongbuk, Korea.
- **Test Report Number** GETEC-E3-09-060
- **Dates of Issue** May 21, 2009



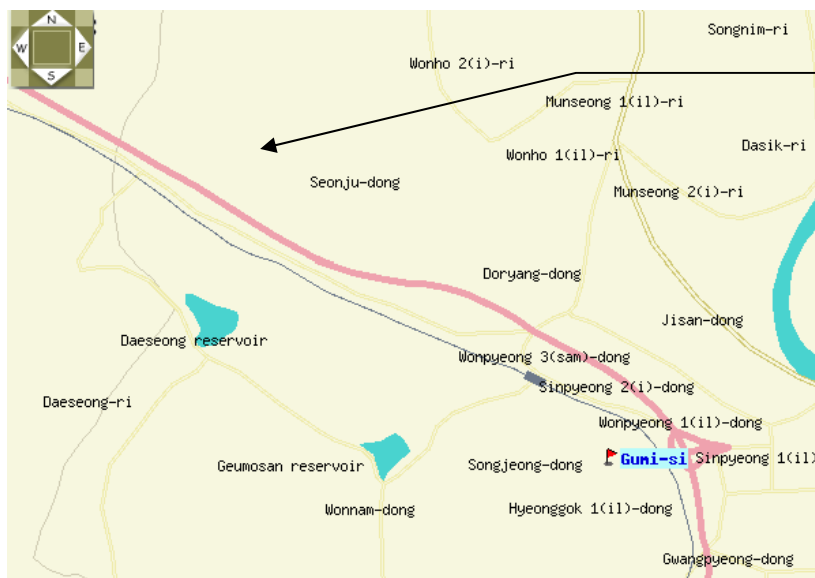
2. Introduction

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 TV/Monitor (Model Name: 26LU55-UB)**

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 FCC §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 TV/Monitor (Model Name: 26LU55-UB) FCC ID.: BEJ26LU55UB**

MODELS		19LU55 (19LU55-UB)	22LU55 (22LU55-UB)	26LU55 (26LU55-UB)
Dimensions (Width x Height x Depth)	With stand	18.1 x 14.6 x 7.1 inches 462.0 x 373.0 x 182.0 mm	20.8 x 16.4 x 7.7 inches 529.1 x 416.6 x 196.0 mm	26.2 x 21.1 x 9.2 inches 668.0 x 538.3 x 236.0 mm
	Without stand	18.1 x 12.0 x 2.5 inches 462.0 x 305.0 x 65.0 mm	20.8 x 13.4 x 2.5 inches 529.1 x 342.3 x 65.0 mm	26.2 x 17.9 x 3.1 inches 668.0 x 456.0 x 81.0 mm
Weight	With stand	9.7 lbs / 4.4 kg	11.9 lbs / 5.4 kg	19.8 lbs / 9.0 kg
	Without stand	8.1 lbs / 3.7 kg	10.1 lbs / 4.6 kg	17.1 lbs / 7.8 kg
Power requirement Television System Program Coverage External Antenna Impedance		AC100-240V ~ 50/60Hz NTSC-M, ATSC, 64 & 256 QAM VHF 2-13, UHF 14-69, CATV 1-135, DTV 2-69, CADTV 1-135 75 ohm		
Environment condition	Operating Temperature Operating Humidity	32 ~ 104°F (0 ~ 40°C) Less than 80%		
	Storage Temperature Storage Humidity	-4 ~ 140°F (-20 ~ 60°C) Less than 85%		
Maximum Frequency range:		400 MHz		

EUT Type: LCD TV/Monitor

FCC ID.: BEJ26LU55UB



3.2 Support Equipment / Cables used

3.2.1 Used Support Equipment

Description	Manufacturer	Model Name	S/N & FCC ID
PC	Hewlett Packard	D530	S/N: CNG34800PY FCC ID: DoC
Video card	ATI	ATI RV360(9600)	S/N: SN0402017176 FCC ID: DoC
Key-board	COMPAQ	166516-AD6	S/N: B13BBOR391006D FCC ID: AQ6-23K15
PS2 mouse	LOGITECH	M-S69	S/N: 334684-108 FCC ID: JNZ211443
Joystick	Microsoft	X05-92626	S/N: 9262600296169 FCC ID: DoC
DVD player	LG Electronics Inc	LC-954	S/N: 3850R-Z674K FCC ID: DoC
Printer	Hewlett Packard	970CXI	S/N: MY9B01F1FG FCC ID: DoC
TV signal generator	FLUKE	54200	S/N: 831011 FCC ID: DoC

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



3.2.2 Used Cable(s)

Cable Name	Condition	Description
Power cable	Connected to the EUT	1.8 m unshielded
RGB in (Analog)cable	Connected to the EUT and PC	1.8 m shielded with two ferrite cores
HDMI/DVI (Digital)cable	Connected to the EUT and PC	1.95 m shielded
PC sound cable	Connected to the EUT and PC	1.8 m shielded
Component cable	Connected to the EUT and DVD player	3.0 m shielded
Component sound cable	Connected to the EUT and DVD player	3.0 m shielded
AV input cable	Connected to the EUT and DVD player	1.8 m shielded
ANT cable	Connected to the EUT and TV signal generator	10 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 and Network Connecting mode
 - . Radiated emission: 1 360 * 768 / 60 Hz (RGB: Analog), 1 360 * 768 / 60 Hz (HDMI/DVI: Digital)
 - . Conducted emission: 1 360 * 768 / 60 Hz (RGB: Analog), 1 360 * 768 / 60 Hz (HDMI/DVI: Digital)
800 * 600 / 60 Hz (RGB: Analog), 640 * 480 / 60 Hz (RGB: Analog)
- Operating test pattern
 - . "H" character scrolling mode (Font size: 10)
 - . Black background white character
 - . Brightness and contrast was adjusted as maximum level
 - . 1 kHz sound tone with winamp player

"The verification report for TV/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

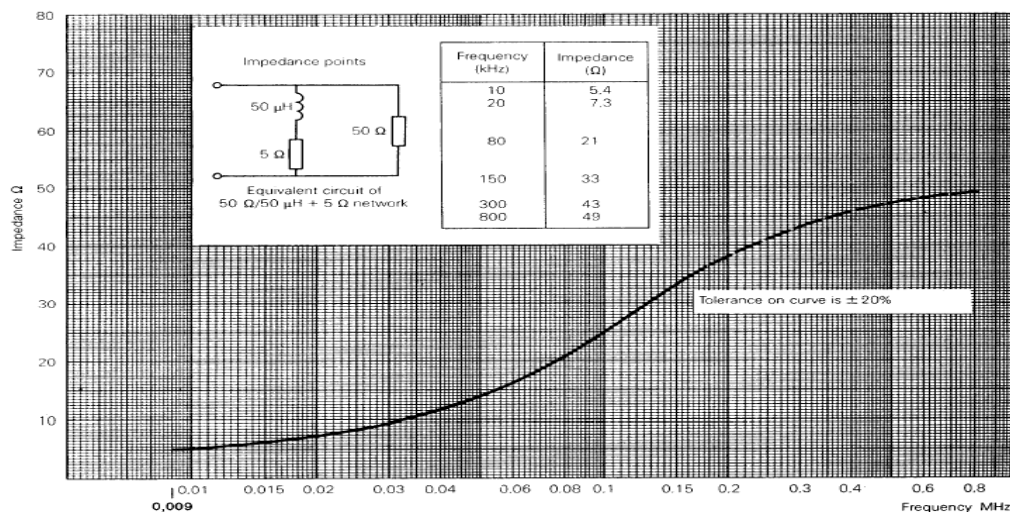


Fig 2. Impedance of LISN



4.3 Radiated Emission

The measurements were conducted 3 m anechoic chamber (FCC Registration No.: 443957) 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.

The spectrum was scanned from 30 to 1000 MHz, using bicornical log antenna (Schwarzbeck, VULB9160).

Above 1 GHz, horn antenna (Schwarzbeck, BBHA9120D / EMCO 3160) was used.

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 1MHz 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 m to 4 m and stopped at the azimuth or height producing the maximum emission.

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

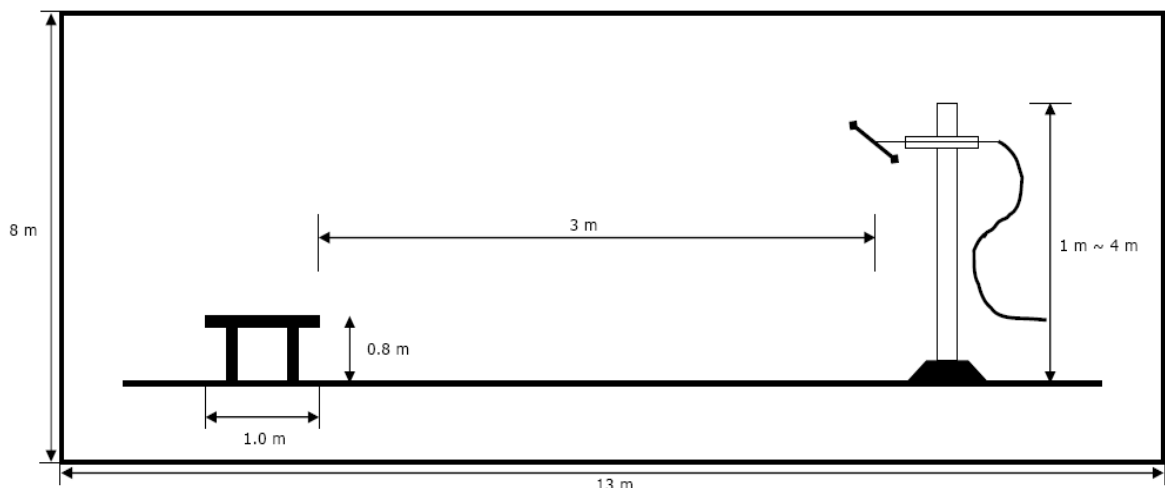


Fig 3. Dimensions of test site.



5. Conducted Emission

5.1 Operating Environment

Temperature : 22 °C
Relative Humidity : 38 % 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)	± 2.97 dB	Confidence levels of 95 % (k=2)
Conducted emission (150 kHz ~ 30 MHz)	± 4.05 dB	Confidence levels of 95 % (k=2)



5.4 Limit

RFI Conducted	FCC Limit(dB) 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. 13. 2009
■ - ESH3-Z5	Rohde & Schwarz	LISN	838979/020	12. 12. 2009
■ - ESH2-Z5	Rohde & Schwarz	LISN	829991/009	12. 12. 2009

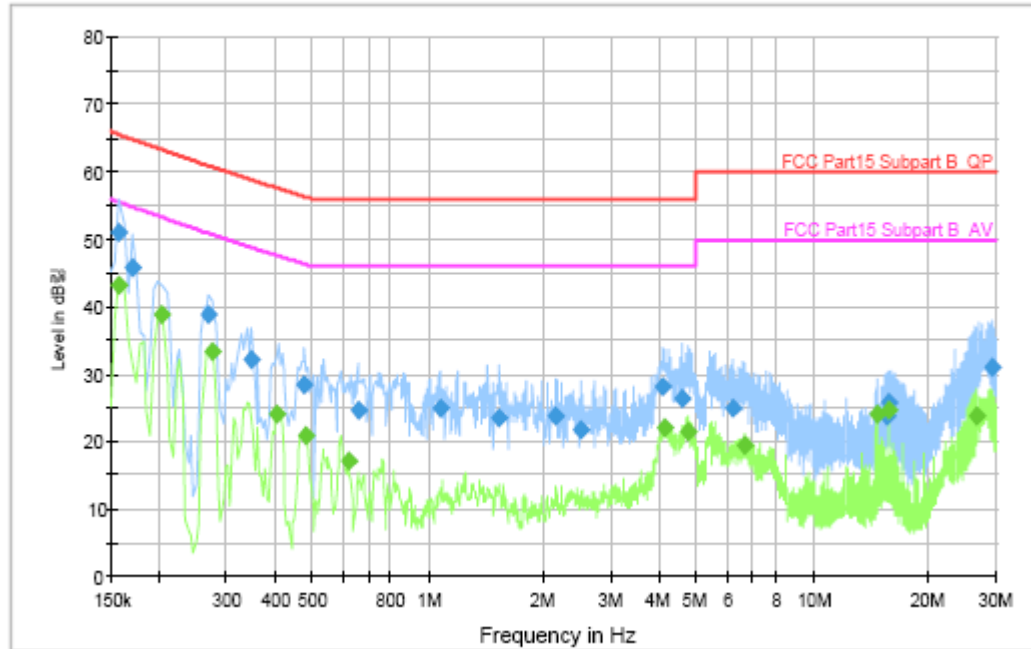
5.6 Test data for Conducted Emission

- . Test Date : May 19, 2009
- . Resolution Bandwidth : 9 kHz
- . Frequency Range : 0.15 MHz ~ 30 MHz



◆ Test resolution: 1 360 * 768 / 60 Hz (RGB: Analog mode)

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
0.158000	51.1	1000.00	9.000	GND	L1	9.9	14.5	65.6	
0.170000	45.9	1000.00	9.000	GND	L1	9.9	19.1	65.0	
0.270000	38.7	1000.00	9.000	GND	L1	10.0	22.4	61.1	
0.348000	32.0	1000.00	9.000	GND	L1	10.0	27.1	59.1	
0.478000	28.5	1000.00	9.000	GND	L1	10.0	27.9	56.4	
0.658000	24.7	1000.00	9.000	GND	L1	10.0	31.3	56.0	
1.074000	25.0	1000.00	9.000	GND	L1	10.0	31.0	56.0	
1.538000	23.4	1000.00	9.000	GND	L1	10.1	32.6	56.0	
2.158000	23.7	1000.00	9.000	GND	L1	10.1	32.3	56.0	
2.502000	21.6	1000.00	9.000	GND	L1	10.1	34.4	56.0	
4.090000	28.1	1000.00	9.000	GND	L1	10.2	27.9	56.0	
4.574000	26.3	1000.00	9.000	GND	L1	10.2	29.7	56.0	
6.182000	25.0	1000.00	9.000	GND	L1	10.2	35.0	60.0	
15.568000	23.8	1000.00	9.000	GND	L1	10.6	36.2	60.0	
15.868000	25.8	1000.00	9.000	GND	L1	10.7	34.2	60.0	
29.330000	31.0	1000.00	9.000	GND	L1	11.1	29.0	60.0	

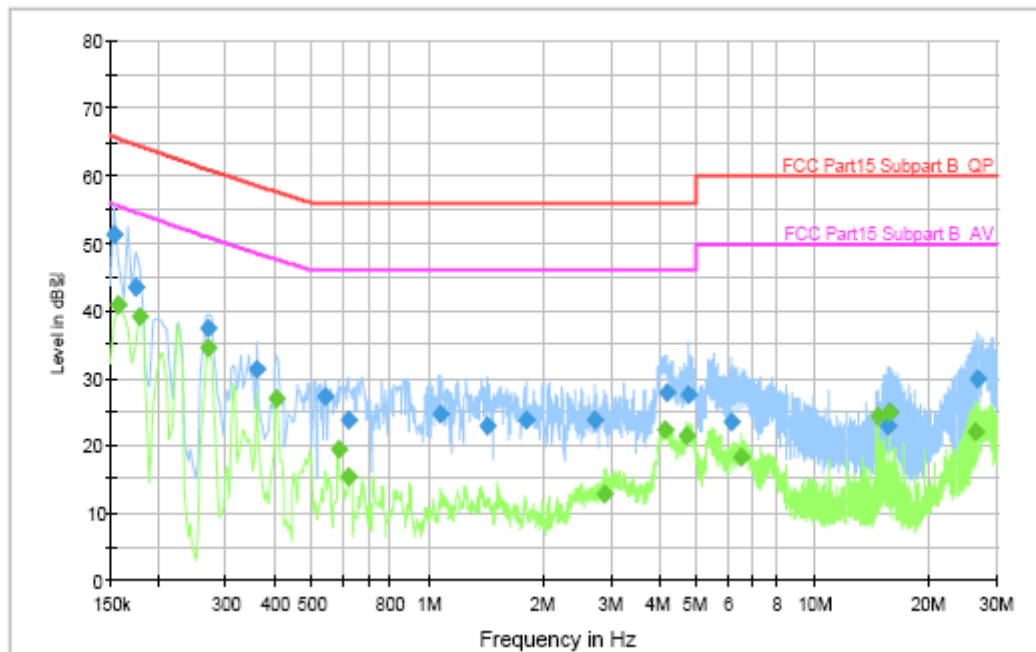
Final Measurement Detector 2

Frequency (MHz)	Average (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.158000	43.1	1000.00	9.000	GND	L1	9.9	12.5	55.6	
0.202000	39.0	1000.00	9.000	GND	L1	9.9	14.5	53.5	
0.274000	33.3	1000.00	9.000	GND	L1	10.0	17.7	51.0	
0.408000	24.1	1000.00	9.000	GND	L1	10.0	23.6	47.7	
0.482000	20.8	1000.00	9.000	GND	L1	10.0	25.5	46.3	
0.622000	17.0	1000.00	9.000	GND	L1	10.0	29.0	46.0	
4.118000	21.9	1000.00	9.000	GND	L1	10.2	24.1	46.0	
4.758000	21.5	1000.00	9.000	GND	L1	10.2	24.5	46.0	
6.658000	19.3	1000.00	9.000	GND	L1	10.2	30.7	50.0	
14.638000	23.9	1000.00	9.000	GND	L1	10.6	26.1	50.0	
15.858000	24.5	1000.00	9.000	GND	L1	10.6	25.5	50.0	
26.582000	23.7	1000.00	9.000	GND	L1	11.0	26.3	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
0.154000	51.3	1000.00	9.000	GND	N	9.9	14.5	65.8	
0.174000	43.3	1000.00	9.000	GND	N	9.9	21.5	64.8	
0.270000	37.3	1000.00	9.000	GND	N	10.0	23.8	61.1	
0.362000	31.4	1000.00	9.000	GND	N	10.0	27.3	58.7	
0.542000	27.2	1000.00	9.000	GND	N	10.0	28.8	56.0	
0.622000	23.6	1000.00	9.000	GND	N	10.0	32.4	56.0	
1.074000	24.5	1000.00	9.000	GND	N	10.0	31.5	56.0	
1.434000	22.9	1000.00	9.000	GND	N	10.1	33.1	56.0	
1.798000	23.7	1000.00	9.000	GND	N	10.1	32.3	56.0	
2.714000	23.9	1000.00	9.000	GND	N	10.1	32.1	56.0	
4.170000	27.9	1000.00	9.000	GND	N	10.2	28.1	56.0	
4.746000	27.6	1000.00	9.000	GND	N	10.2	28.4	56.0	
6.102000	23.4	1000.00	9.000	GND	N	10.2	36.6	60.0	
15.674000	22.9	1000.00	9.000	GND	N	10.6	37.1	60.0	
15.854000	25.0	1000.00	9.000	GND	N	10.6	35.0	60.0	
26.694000	30.0	1000.00	9.000	GND	N	10.8	30.0	60.0	

Final Measurement Detector 2

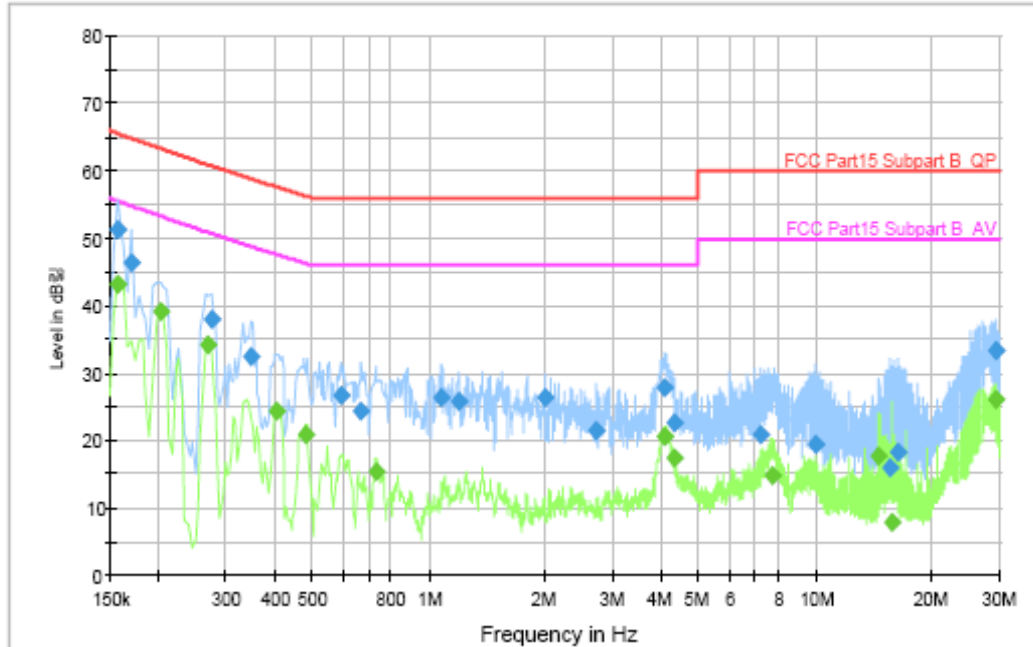
Frequency (MHz)	Average (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.158000	40.9	1000.00	9.000	GND	N	9.9	14.7	55.6	
0.176000	39.0	1000.00	9.000	GND	N	9.9	15.6	54.6	
0.270000	34.4	1000.00	9.000	GND	N	10.0	16.7	51.1	
0.406000	26.8	1000.00	9.000	GND	N	10.0	21.9	48.7	
0.596000	19.5	1000.00	9.000	GND	N	10.0	26.5	46.0	
0.626000	15.4	1000.00	9.000	GND	N	10.0	30.6	46.0	
2.886000	12.9	1000.00	9.000	GND	N	10.1	33.1	46.0	
4.118000	22.4	1000.00	9.000	GND	N	10.2	23.6	46.0	
4.696000	21.4	1000.00	9.000	GND	N	10.2	24.6	46.0	
6.638000	18.3	1000.00	9.000	GND	N	10.2	31.7	50.0	
14.638000	24.3	1000.00	9.000	GND	N	10.5	25.7	50.0	
15.858000	24.8	1000.00	9.000	GND	N	10.6	25.2	50.0	
26.630000	22.0	1000.00	9.000	GND	N	10.8	28.0	50.0	

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



◆ Test resolution: 1 360 * 768 / 60 Hz (HDMI/DVI: Digital mode)

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
0.158000	51.3	1000.00	9.000	GND	L1	9.9	14.3	65.6	
0.170000	46.2	1000.00	9.000	GND	L1	9.9	18.8	65.0	
0.274000	38.1	1000.00	9.000	GND	L1	10.0	22.9	61.0	
0.348000	32.5	1000.00	9.000	GND	L1	10.0	26.6	59.1	
0.594000	26.7	1000.00	9.000	GND	L1	10.0	29.3	56.0	
0.670000	24.5	1000.00	9.000	GND	L1	10.0	31.5	56.0	
1.082000	26.4	1000.00	9.000	GND	L1	10.0	29.6	56.0	
1.202000	25.7	1000.00	9.000	GND	L1	10.0	30.3	56.0	
1.994000	26.3	1000.00	9.000	GND	L1	10.1	29.7	56.0	
2.722000	21.5	1000.00	9.000	GND	L1	10.1	34.5	56.0	
4.098000	27.8	1000.00	9.000	GND	L1	10.2	28.2	56.0	
4.338000	22.7	1000.00	9.000	GND	L1	10.2	33.3	56.0	
7.248000	20.9	1000.00	9.000	GND	L1	10.3	39.1	60.0	
9.968000	19.5	1000.00	9.000	GND	L1	10.4	40.5	60.0	
15.630000	15.9	1000.00	9.000	GND	L1	10.6	44.1	60.0	
16.328000	18.2	1000.00	9.000	GND	L1	10.7	41.8	60.0	
29.274000	33.3	1000.00	9.000	GND	L1	11.1	26.7	60.0	

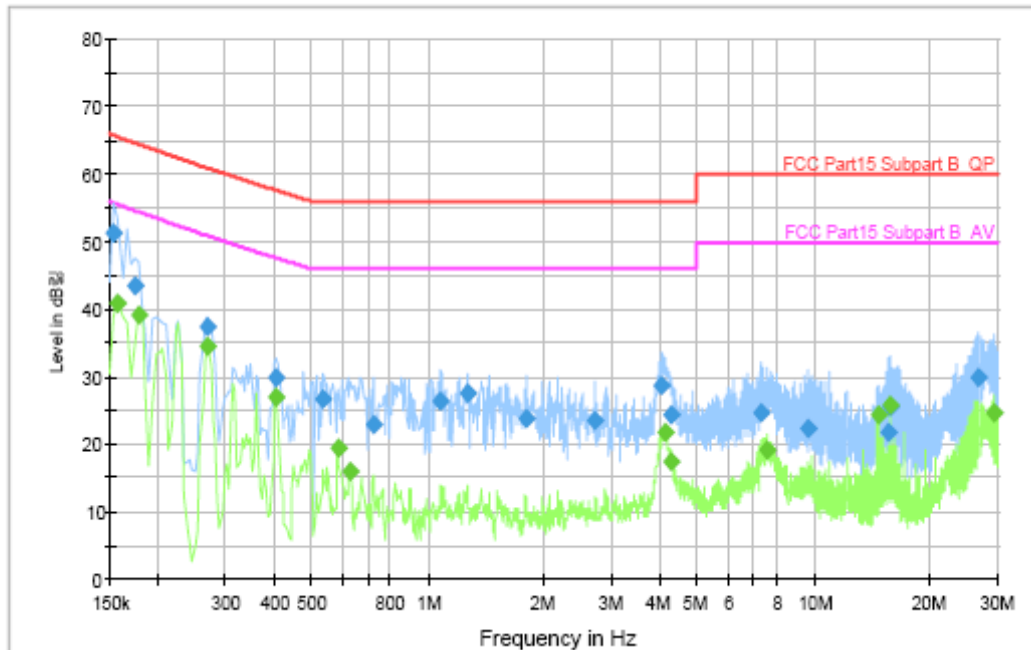
Final Measurement Detector 2

Frequency (MHz)	Average (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.158000	43.2	1000.00	9.000	GND	L1	9.9	12.4	55.6	
0.202000	39.2	1000.00	9.000	GND	L1	9.9	14.3	53.5	
0.270000	34.2	1000.00	9.000	GND	L1	10.0	16.9	51.1	
0.408000	24.2	1000.00	9.000	GND	L1	10.0	23.5	47.7	
0.482000	20.9	1000.00	9.000	GND	L1	10.0	25.4	46.3	
0.734000	15.4	1000.00	9.000	GND	L1	10.0	30.6	46.0	
4.068000	20.7	1000.00	9.000	GND	L1	10.2	25.3	46.0	
4.318000	17.4	1000.00	9.000	GND	L1	10.2	28.6	46.0	
7.782000	14.9	1000.00	9.000	GND	L1	10.3	35.1	50.0	
14.634000	17.7	1000.00	9.000	GND	L1	10.6	32.3	50.0	
15.858000	7.9	1000.00	9.000	GND	L1	10.6	42.1	50.0	
29.274000	26.1	1000.00	9.000	GND	L1	11.1	23.9	50.0	

< Fig 6. 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
0.154000	51.4	1000.00	9.000	GND	N	9.9	14.4	65.8	
0.174000	43.4	1000.00	9.000	GND	N	9.9	21.4	64.8	
0.270000	37.3	1000.00	9.000	GND	N	10.0	23.8	61.1	
0.408000	29.8	1000.00	9.000	GND	N	10.0	27.9	57.7	
0.538000	26.6	1000.00	9.000	GND	N	10.0	29.4	56.0	
0.722000	22.8	1000.00	9.000	GND	N	10.0	33.2	56.0	
1.082000	26.3	1000.00	9.000	GND	N	10.0	29.7	56.0	
1.266000	27.4	1000.00	9.000	GND	N	10.0	28.6	56.0	
1.798000	23.8	1000.00	9.000	GND	N	10.1	32.2	56.0	
2.714000	23.6	1000.00	9.000	GND	N	10.1	32.4	56.0	
4.054000	28.8	1000.00	9.000	GND	N	10.2	27.2	56.0	
4.294000	24.4	1000.00	9.000	GND	N	10.2	31.6	56.0	
7.270000	24.5	1000.00	9.000	GND	N	10.3	35.5	60.0	
9.628000	22.2	1000.00	9.000	GND	N	10.3	37.8	60.0	
15.602000	21.9	1000.00	9.000	GND	N	10.6	38.1	60.0	
15.750000	25.4	1000.00	9.000	GND	N	10.6	34.6	60.0	
26.762000	29.9	1000.00	9.000	GND	N	10.8	30.1	60.0	

Final Measurement Detector 2

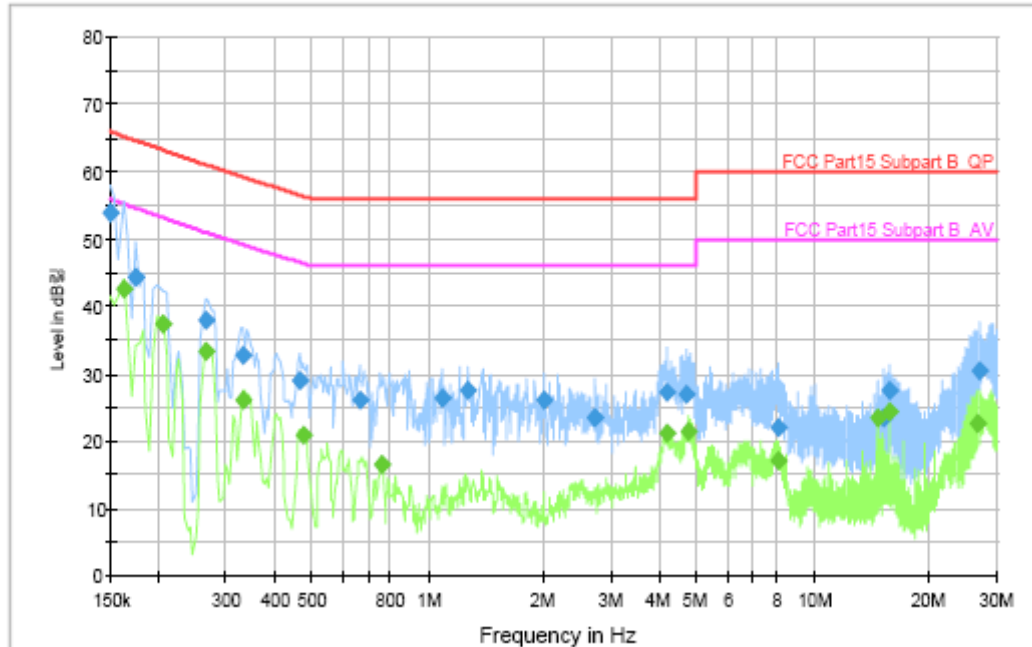
Frequency (MHz)	Average (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.158000	41.0	1000.00	9.000	GND	N	9.9	14.6	55.6	
0.178000	39.1	1000.00	9.000	GND	N	9.9	15.5	54.6	
0.270000	34.5	1000.00	9.000	GND	N	10.0	16.6	51.1	
0.408000	26.8	1000.00	9.000	GND	N	10.0	20.9	47.7	
0.598000	19.4	1000.00	9.000	GND	N	10.0	26.6	46.0	
0.630000	15.9	1000.00	9.000	GND	N	10.0	30.1	46.0	
4.118000	21.6	1000.00	9.000	GND	N	10.2	24.4	46.0	
4.282000	17.5	1000.00	9.000	GND	N	10.2	28.5	46.0	
7.538000	19.2	1000.00	9.000	GND	N	10.3	30.8	50.0	
14.638000	24.4	1000.00	9.000	GND	N	10.5	25.6	50.0	
15.858000	25.7	1000.00	9.000	GND	N	10.6	24.3	50.0	
29.274000	24.7	1000.00	9.000	GND	N	10.8	25.3	50.0	

< Fig 7. Conducted emission result (Neutral line)>



◆ Test resolution: 800 * 600 / 60 Hz (RGB: Analog mode)

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
0.150000	54.0	1000.00	9.000	GND	L1	9.9	12.0	66.0	
0.174000	44.5	1000.00	9.000	GND	L1	9.9	20.3	64.8	
0.266000	37.9	1000.00	9.000	GND	L1	10.0	23.3	61.2	
0.330000	32.8	1000.00	9.000	GND	L1	10.0	26.7	59.5	
0.466000	29.0	1000.00	9.000	GND	L1	10.0	27.6	56.6	
0.666000	26.1	1000.00	9.000	GND	L1	10.0	29.9	56.0	
1.066000	26.2	1000.00	9.000	GND	L1	10.0	29.8	56.0	
1.274000	27.7	1000.00	9.000	GND	L1	10.0	28.3	56.0	
2.002000	26.0	1000.00	9.000	GND	L1	10.1	30.0	56.0	
2.726000	23.6	1000.00	9.000	GND	L1	10.1	32.4	56.0	
4.182000	27.2	1000.00	9.000	GND	L1	10.2	28.8	56.0	
4.702000	27.0	1000.00	9.000	GND	L1	10.2	29.0	56.0	
8.078000	22.1	1000.00	9.000	GND	L1	10.3	37.9	60.0	
15.186000	23.5	1000.00	9.000	GND	L1	10.6	36.5	60.0	
15.862000	27.4	1000.00	9.000	GND	L1	10.6	32.6	60.0	
27.046000	30.4	1000.00	9.000	GND	L1	11.0	29.6	60.0	

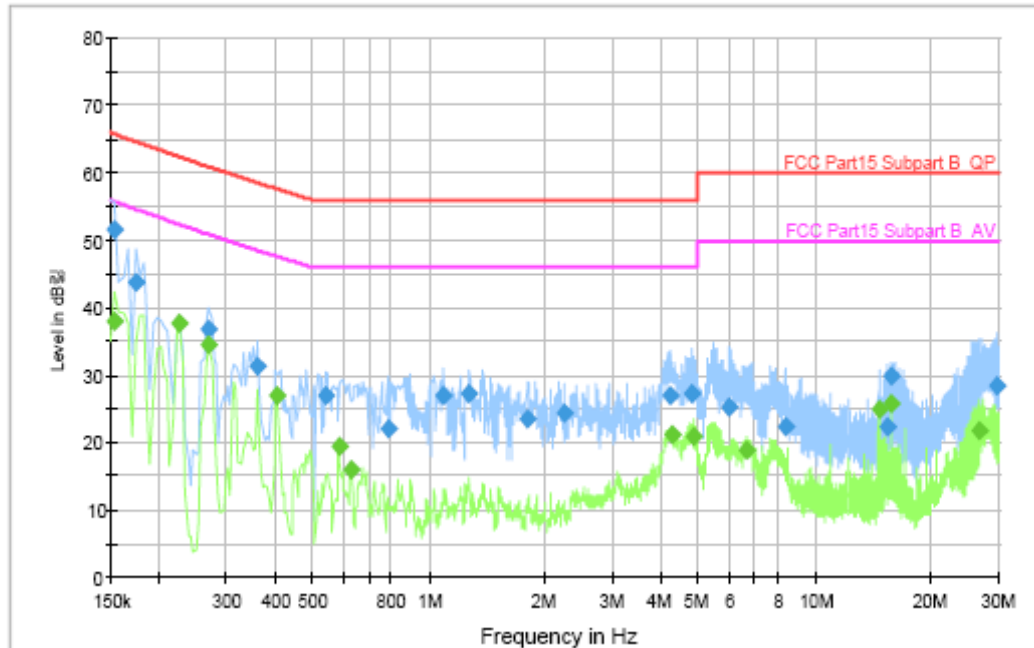
Final Measurement Detector 2

Frequency (MHz)	Average (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.162000	42.7	1000.00	9.000	GND	L1	9.9	12.7	55.4	
0.206000	37.4	1000.00	9.000	GND	L1	9.9	16.0	53.4	
0.266000	33.3	1000.00	9.000	GND	L1	10.0	17.9	51.2	
0.330000	26.2	1000.00	9.000	GND	L1	10.0	23.3	49.5	
0.478000	20.9	1000.00	9.000	GND	L1	10.0	25.5	46.4	
0.762000	16.5	1000.00	9.000	GND	L1	10.0	29.5	46.0	
4.182000	21.3	1000.00	9.000	GND	L1	10.2	24.7	46.0	
4.746000	21.4	1000.00	9.000	GND	L1	10.2	24.6	46.0	
8.084000	17.0	1000.00	9.000	GND	L1	10.3	33.0	50.0	
14.642000	23.6	1000.00	9.000	GND	L1	10.6	26.4	50.0	
15.858000	24.3	1000.00	9.000	GND	L1	10.6	25.7	50.0	
26.566000	22.6	1000.00	9.000	GND	L1	11.0	27.4	50.0	

< Fig 8. 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
0.154000	51.6	1000.00	9.000	GND	N	9.9	14.2	65.8	
0.174000	43.6	1000.00	9.000	GND	N	9.9	21.2	64.8	
0.270000	36.9	1000.00	9.000	GND	N	10.0	24.2	61.1	
0.362000	31.3	1000.00	9.000	GND	N	10.0	27.4	58.7	
0.542000	26.9	1000.00	9.000	GND	N	10.0	29.1	56.0	
0.786000	22.0	1000.00	9.000	GND	N	10.0	34.0	56.0	
1.090000	26.9	1000.00	9.000	GND	N	10.0	29.1	56.0	
1.274000	27.3	1000.00	9.000	GND	N	10.0	28.7	56.0	
1.810000	23.6	1000.00	9.000	GND	N	10.1	32.4	56.0	
2.250000	24.4	1000.00	9.000	GND	N	10.1	31.6	56.0	
4.246000	27.1	1000.00	9.000	GND	N	10.2	28.9	56.0	
4.794000	27.2	1000.00	9.000	GND	N	10.2	28.8	56.0	
6.026000	25.1	1000.00	9.000	GND	N	10.2	34.9	60.0	
8.362000	22.2	1000.00	9.000	GND	N	10.3	37.8	60.0	
15.450000	22.3	1000.00	9.000	GND	N	10.6	37.7	60.0	
15.856000	29.9	1000.00	9.000	GND	N	10.6	30.1	60.0	
29.666000	28.4	1000.00	9.000	GND	N	10.8	31.6	60.0	

Final Measurement Detector 2

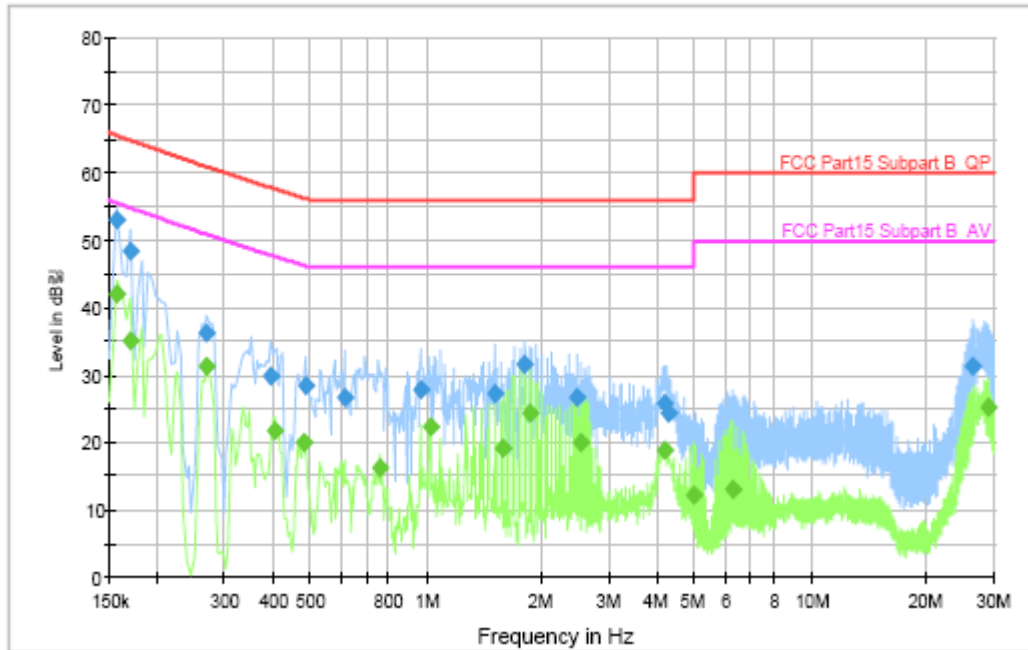
Frequency (MHz)	Average (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.154000	37.9	1000.00	9.000	GND	N	9.9	17.9	55.8	
0.226000	37.7	1000.00	9.000	GND	N	10.0	14.9	52.6	
0.270000	34.4	1000.00	9.000	GND	N	10.0	16.7	51.1	
0.406000	26.8	1000.00	9.000	GND	N	10.0	20.9	47.7	
0.586000	19.4	1000.00	9.000	GND	N	10.0	26.6	46.0	
0.630000	15.9	1000.00	9.000	GND	N	10.0	30.1	46.0	
4.262000	21.1	1000.00	9.000	GND	N	10.2	24.9	46.0	
4.834000	20.8	1000.00	9.000	GND	N	10.2	25.2	46.0	
6.626000	18.9	1000.00	9.000	GND	N	10.2	31.1	50.0	
14.636000	25.0	1000.00	9.000	GND	N	10.6	25.0	50.0	
15.856000	25.9	1000.00	9.000	GND	N	10.6	24.1	50.0	
26.650000	21.8	1000.00	9.000	GND	N	10.8	28.2	50.0	

< Fig 9. Conducted emission result (Neutral line)>



◆ Test resolution: 640 * 480 / 60 Hz (RGB: Analog mode)

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
0.158000	53.0	1000.00	9.000	GND	L1	9.9	12.6	65.6	
0.170000	48.4	1000.00	9.000	GND	L1	9.9	16.6	65.0	
0.270000	36.3	1000.00	9.000	GND	L1	10.0	24.8	61.1	
0.394000	30.0	1000.00	9.000	GND	L1	10.0	28.0	58.0	
0.486000	28.4	1000.00	9.000	GND	L1	10.0	27.8	56.2	
0.614000	26.7	1000.00	9.000	GND	L1	10.0	29.3	56.0	
0.986000	27.9	1000.00	9.000	GND	L1	10.0	28.1	56.0	
1.510000	27.2	1000.00	9.000	GND	L1	10.1	28.8	56.0	
1.810000	31.6	1000.00	9.000	GND	L1	10.1	24.4	56.0	
2.478000	26.6	1000.00	9.000	GND	L1	10.1	29.4	56.0	
4.150000	25.8	1000.00	9.000	GND	L1	10.2	30.2	56.0	
4.290000	24.4	1000.00	9.000	GND	L1	10.2	31.6	56.0	
26.274000	31.4	1000.00	9.000	GND	L1	11.0	28.6	60.0	

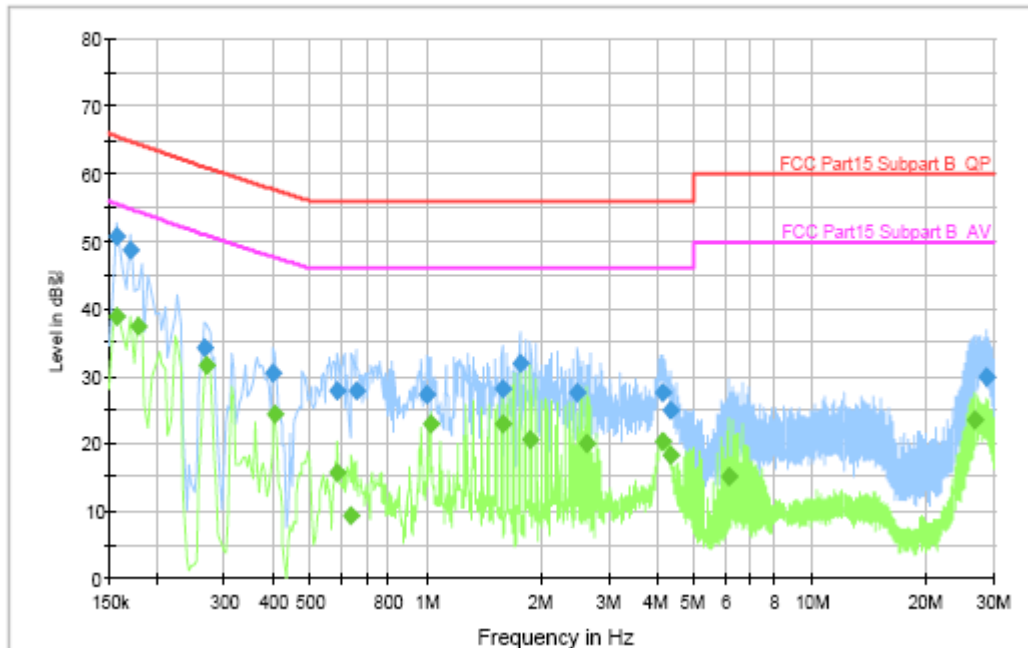
Final Measurement Detector 2

Frequency (MHz)	Average (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.158000	42.1	1000.00	9.000	GND	L1	9.9	13.5	55.6	
0.170000	35.0	1000.00	9.000	GND	L1	9.9	20.0	55.0	
0.270000	31.2	1000.00	9.000	GND	L1	10.0	19.9	51.1	
0.406000	21.8	1000.00	9.000	GND	L1	10.0	25.9	47.7	
0.482000	20.1	1000.00	9.000	GND	L1	10.0	26.2	46.3	
0.762000	16.1	1000.00	9.000	GND	L1	10.0	29.9	46.0	
1.030000	22.2	1000.00	9.000	GND	L1	10.0	23.8	46.0	
1.582000	19.2	1000.00	9.000	GND	L1	10.1	26.8	46.0	
1.870000	24.2	1000.00	9.000	GND	L1	10.1	21.8	46.0	
2.534000	20.1	1000.00	9.000	GND	L1	10.1	25.9	46.0	
4.174000	18.8	1000.00	9.000	GND	L1	10.2	27.2	46.0	
4.982000	12.3	1000.00	9.000	GND	L1	10.2	33.7	46.0	
6.282000	13.2	1000.00	9.000	GND	L1	10.2	36.8	50.0	
26.822000	25.1	1000.00	9.000	GND	L1	11.1	24.9	50.0	

< Fig 10. 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
0.158000	50.8	1000.00	9.000	GND	N	9.9	14.8	65.6	
0.170000	48.6	1000.00	9.000	GND	N	9.9	16.4	65.0	
0.268000	34.3	1000.00	9.000	GND	N	10.0	26.9	61.2	
0.402000	30.4	1000.00	9.000	GND	N	10.0	27.4	57.8	
0.590000	27.7	1000.00	9.000	GND	N	10.0	28.3	56.0	
0.658000	27.8	1000.00	9.000	GND	N	10.0	28.2	56.0	
1.006000	27.3	1000.00	9.000	GND	N	10.0	28.7	56.0	
1.578000	28.1	1000.00	9.000	GND	N	10.1	27.9	56.0	
1.750000	31.9	1000.00	9.000	GND	N	10.1	24.1	56.0	
2.482000	27.4	1000.00	9.000	GND	N	10.1	28.6	56.0	
4.122000	27.5	1000.00	9.000	GND	N	10.2	28.5	56.0	
4.310000	24.9	1000.00	9.000	GND	N	10.2	31.2	56.0	
28.490000	30.0	1000.00	9.000	GND	N	10.8	30.0	60.0	

Final Measurement Detector 2

Frequency (MHz)	Average (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.158000	38.8	1000.00	9.000	GND	N	9.9	16.8	55.6	
0.178000	37.5	1000.00	9.000	GND	N	9.9	17.1	54.6	
0.270000	31.6	1000.00	9.000	GND	N	10.0	19.5	51.1	
0.406000	24.2	1000.00	9.000	GND	N	10.0	23.5	47.7	
0.590000	15.8	1000.00	9.000	GND	N	10.0	30.2	46.0	
0.638000	9.3	1000.00	9.000	GND	N	10.0	36.7	46.0	
1.030000	23.0	1000.00	9.000	GND	N	10.0	23.0	46.0	
1.578000	22.9	1000.00	9.000	GND	N	10.1	23.1	46.0	
1.866000	20.6	1000.00	9.000	GND	N	10.1	25.4	46.0	
2.614000	20.0	1000.00	9.000	GND	N	10.1	26.0	46.0	
4.118000	20.2	1000.00	9.000	GND	N	10.2	25.8	46.0	
4.314000	18.1	1000.00	9.000	GND	N	10.2	27.9	46.0	
6.138000	15.1	1000.00	9.000	GND	N	10.2	34.9	50.0	
26.818000	23.5	1000.00	9.000	GND	N	10.8	26.5	50.0	

< Fig 11. Conducted emission result (Neutral line)>



6. Radiated Emission

6.1 Operating Environment

Temperature : 21 °C
Relative Humidity : 39 % 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	Uncertainty	Remark
Radiated emission (30 MHz ~ 300 MHz, 3 m, Vertical)	± 3.54 dB	Confidence levels of 95 % (k=2)
Radiated emission (30 MHz ~ 300 MHz, 3 m, Horizontal)	± 3.49 dB	Confidence levels of 95 % (k=2)
Radiated emission (300 MHz ~ 1 000 MHz, 3 m, Vertical)	± 3.85 dB	Confidence levels of 95 % (k=2)
Radiated emission (300 MHz ~ 1 000 MHz, 3 m, Horizontal)	± 3.76 dB	Confidence levels of 95 % (k=2)
Radiated emission (30 MHz ~ 300 MHz, 10 m, Vertical)	± 3.21 dB	Confidence levels of 95 % (k=2)
Radiated emission (30 MHz ~ 300 MHz, 10 m, Horizontal)	± 3.32 dB	Confidence levels of 95 % (k=2)
Radiated emission (300 MHz ~ 1 000 MHz, 10 m, Vertical)	± 3.77 dB	Confidence levels of 95 % (k=2)
Radiated emission (300 MHz ~ 1 000 MHz, 10 m, Horizontal)	± 3.84 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

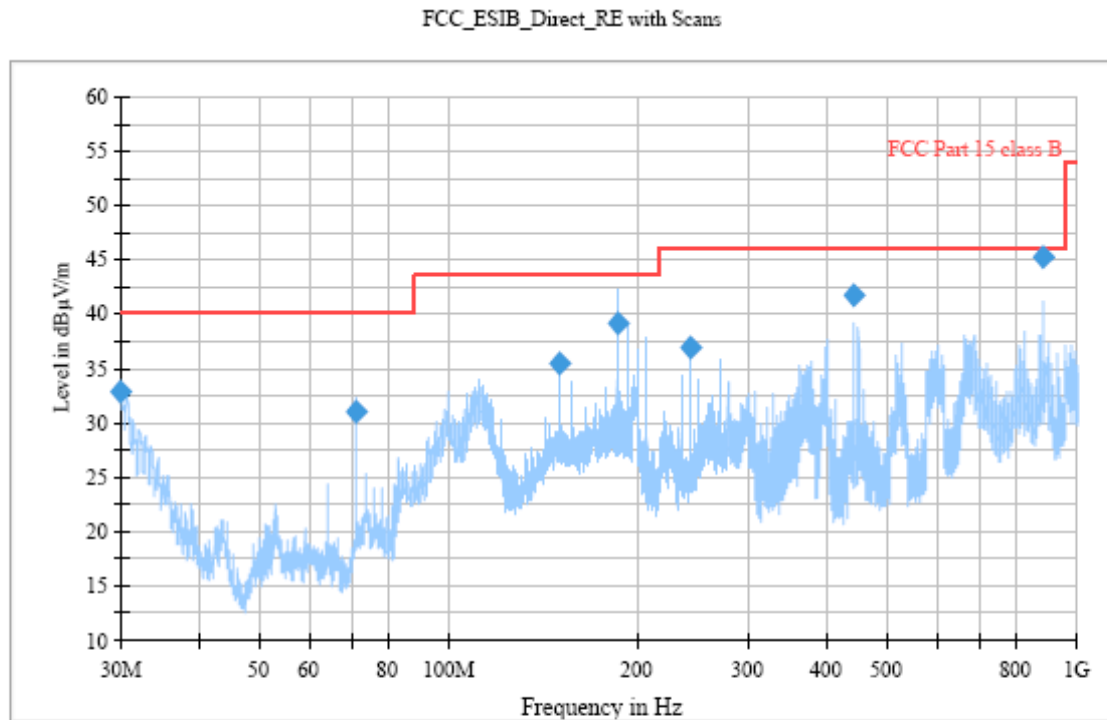
Model Name	Manufacturer	Description	Serial Number	Due to Calibration
■ - ESI	Rohde & Schwarz	EMI test receiver	830482/010	12. 14. 2009
■ - VULB9160	Schwarzbeck	Broadband Test ANT	3193	12. 11. 2009
■ - BBHA9120D	Schwarzbeck	Horn ANT	207	12. 26. 2009
■ - MCU066	Maturo GmbH	Position Controller	1390306	N/A
■ - AM 4.0	Maturo GmbH	Turntable	1390308	N/A
■ - TT2.5SI	Maturo GmbH	Antenna Mast	1390307	N/A
■ - AFS 44 00101800- 25-10P-44	MITEQ	Preamplifier	1258943	11. 11. 2009

6.6 Test data for Radiated Emission

- Test Date : May 18, 2009
- Resolution Bandwidth : 120 kHz/ 1 MHz
- Frequency Range : 30 MHz ~ 2 000 MHz
- Measurement Distance : 3 m



- ◆ Operating Condition: 1 360 * 768 / 60 Hz (RGB: Analog mode)
Detector mode: Quasi- peak detector mode



Final Result 1

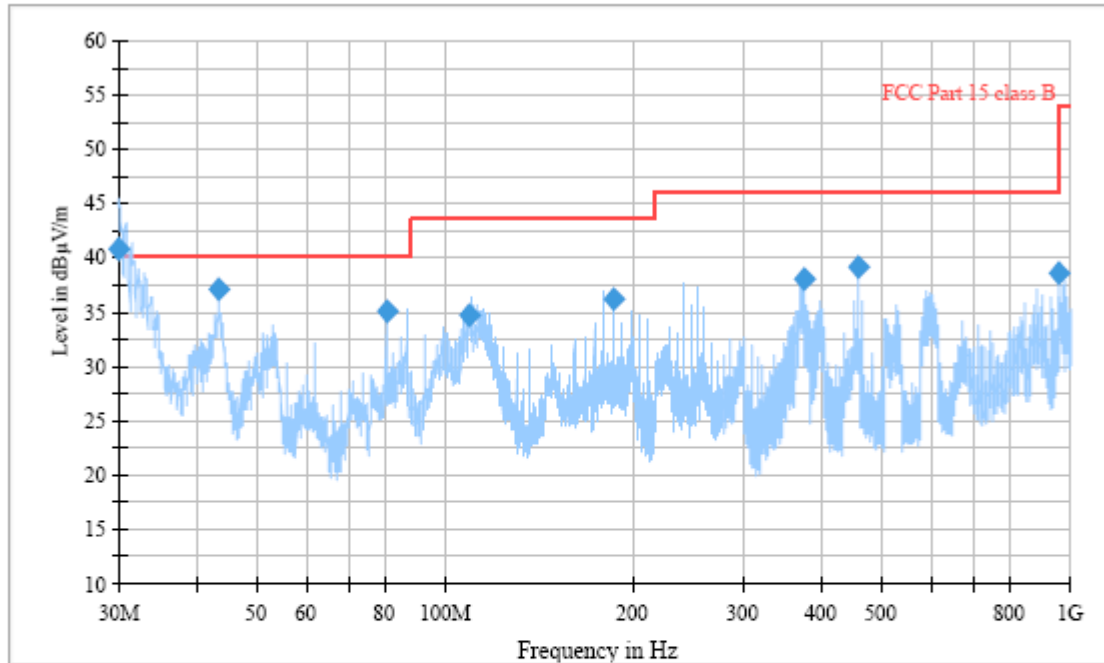
Frequency (MHz)	QuasiPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
30.000000	26.93	1000.0	120.000	155.0	H	172.0	14.6	13.07	40.00
71.250000	28.75	1000.0	120.000	220.0	H	136.1	9.3	11.25	40.00
149.650000	32.77	1000.0	120.000	135.0	V	185.6	14.4	10.73	43.50
185.250000	26.80	1000.0	120.000	171.0	V	180.0	16.0	16.70	43.50
242.240000	34.39	1000.0	120.000	100.0	V	165.3	18.5	11.61	46.00
441.740000	39.52	1000.0	120.000	100.0	V	191.0	18.5	6.48	46.00
880.920000	40.36	1000.0	120.000	178.0	H	164.8	25.0	5.64	46.00

< Fig 12. Radiated emission result (30 MHz ~ 1 000 MHz)>



- ◆ Operating Condition: 1 360 * 768 / 60 Hz (HDMI/DVI: Digital mode)
Detector mode: Quasi- peak detector mode

FCC_ESIC_Direct_RE with Scans



Final Result 1

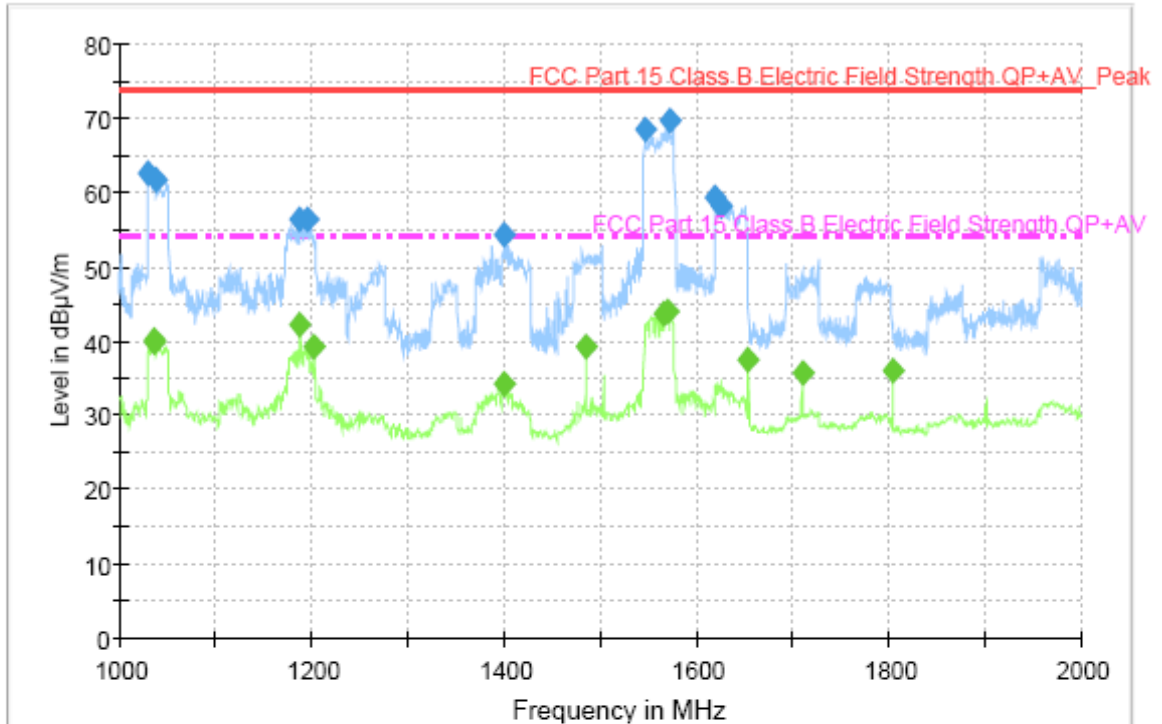
Frequency (MHz)	QuasiPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
30.050000	35.58	1000.0	120.000	100.0	V	164.0	14.6	4.42	40.00
43.300000	33.16	1000.0	120.000	100.0	V	200.0	11.3	6.84	40.00
80.450000	31.19	1000.0	120.000	100.0	V	96.0	9.7	8.81	40.00
109.050000	28.83	1000.0	120.000	100.0	V	58.0	12.2	14.67	43.50
185.620000	33.86	1000.0	120.000	100.0	H	174.0	16.0	9.64	43.50
375.040000	32.38	1000.0	120.000	116.0	V	170.0	17.0	13.62	46.00
457.870000	36.27	1000.0	120.000	100.0	V	187.0	18.8	9.73	46.00
957.090000	31.93	1000.0	120.000	142.0	V	173.0	25.2	14.07	46.00

< Fig 13. Radiated emission result (30 MHz ~ 1 000 MHz)>



- ◆ Operating Condition: 1 360 * 768 / 60 Hz (RGB: Analog mode)
Detector mode: Peak detector mode / Average detector mode

FCC_ESIB_Preamplifier with Scans



Final Result 1

Frequency (MHz)	MaxPeak-MaxHold (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
1030.800000	62.4	200.0	V	180.0	-15.8	11.5	73.9	
1037.600000	61.7	200.0	V	180.0	-15.7	12.2	73.9	
1188.000000	56.4	100.0	H	180.0	-15.2	17.5	73.9	
1196.800000	56.4	100.0	H	180.0	-15.2	17.5	73.9	
1400.800000	54.3	100.0	V	180.0	-14.4	19.6	73.9	
1546.400000	68.4	100.0	V	180.0	-13.9	5.5	73.9	
1572.800000	69.8	100.0	V	180.0	-13.8	4.1	73.9	
1620.000000	59.3	100.0	V	180.0	-13.6	14.6	73.9	
1624.800000	58.3	100.0	V	180.0	-13.6	15.6	73.9	

Final Result 2

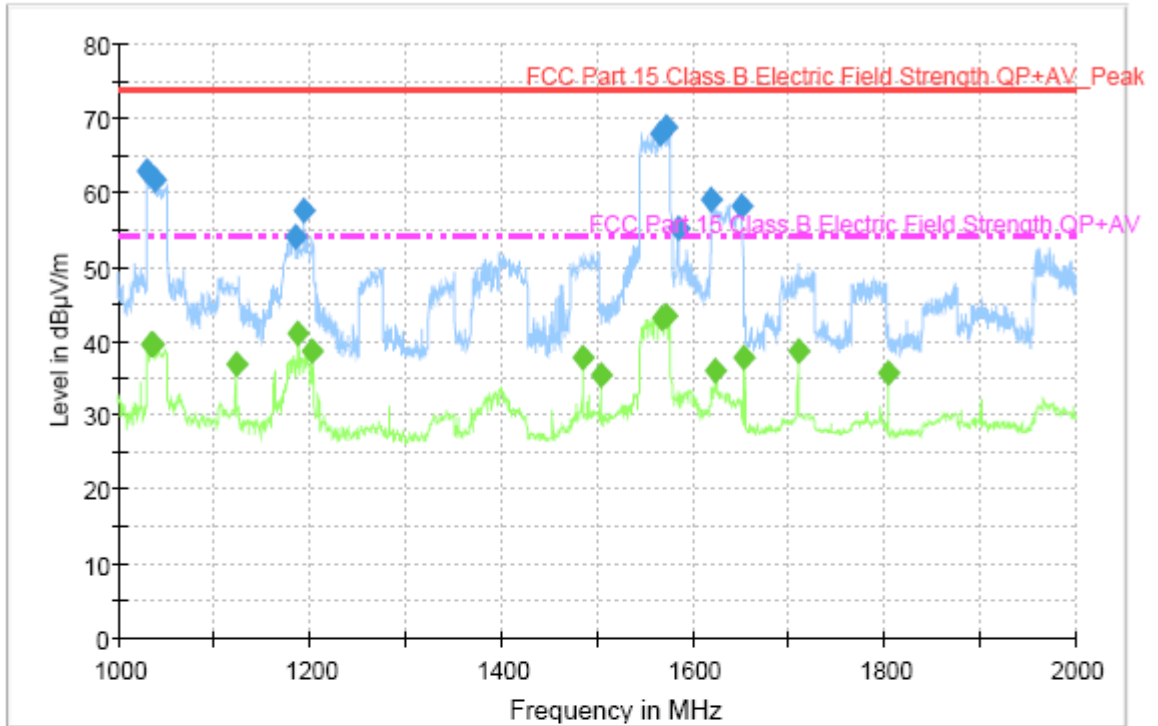
Frequency (MHz)	Average-MaxHold (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
1035.200000	39.9	200.0	V	180.0	-15.7	14.0	53.9	
1035.600000	40.0	200.0	V	180.0	-15.7	13.9	53.9	
1188.000000	42.2	300.0	V	0.0	-15.2	11.7	53.9	
1202.800000	39.4	300.0	V	0.0	-15.2	14.5	53.9	
1399.200000	34.4	100.0	V	180.0	-14.4	19.5	53.9	
1485.200000	39.1	100.0	V	0.0	-14.2	14.8	53.9	
1565.600000	43.6	100.0	V	180.0	-13.8	10.3	53.9	
1570.800000	44.0	100.0	V	180.0	-13.8	9.9	53.9	
1653.600000	37.6	100.0	V	0.0	-13.6	16.3	53.9	
1710.000000	35.8	200.0	V	180.0	-13.5	18.1	53.9	
1804.000000	36.1	200.0	V	0.0	-13.1	17.8	53.9	

< Fig 14. Radiated emission result (1 000 MHz ~ 2 000 MHz)>



- ◆ Operating Condition: 1 360 * 768 / 60 Hz (HDMI/DVI: Digital mode)
Detector mode: Peak detector mode / Average detector mode

FCC_ESIB_Preamp_RE with Scans



Final Result 1

Frequency (MHz)	MaxPeak-MaxHold (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
1030.800000	62.8	200.0	V	180.0	-15.8	11.1	73.9	
1037.600000	61.8	200.0	V	180.0	-15.7	12.1	73.9	
1184.400000	54.1	100.0	H	180.0	-15.3	19.8	73.9	
1193.200000	57.5	100.0	H	180.0	-15.2	16.4	73.9	
1566.000000	67.8	100.0	V	180.0	-13.8	6.1	73.9	
1572.800000	68.7	100.0	V	180.0	-13.8	5.2	73.9	
1584.400000	55.1	100.0	V	180.0	-13.7	18.8	73.9	
1619.600000	59.0	100.0	V	180.0	-13.6	14.9	73.9	
1651.200000	58.2	300.0	V	180.0	-13.6	15.7	73.9	

Final Result 2

Frequency (MHz)	Average-MaxHold (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
1034.800000	39.4	200.0	V	180.0	-15.7	14.5	53.9	
1035.600000	39.6	200.0	V	180.0	-15.7	14.3	53.9	
1122.400000	36.9	400.0	V	0.0	-15.4	17.0	53.9	
1188.000000	41.0	300.0	V	0.0	-15.2	12.9	53.9	
1202.800000	38.6	300.0	V	0.0	-15.2	15.3	53.9	
1485.200000	37.7	100.0	V	0.0	-14.2	16.2	53.9	
1503.600000	35.6	100.0	V	0.0	-14.1	18.3	53.9	
1568.000000	43.2	100.0	V	180.0	-13.8	10.7	53.9	
1573.200000	43.5	100.0	V	180.0	-13.8	10.4	53.9	
1624.400000	36.0	200.0	V	180.0	-13.6	17.9	53.9	
1654.000000	37.8	100.0	V	0.0	-13.6	16.1	53.9	
1710.000000	38.6	200.0	V	180.0	-13.5	15.3	53.9	
1804.000000	35.6	100.0	H	0.0	-13.1	18.3	53.9	

< Fig 15. 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 TV/Monitor (Model Name: 26LU55-UB)** was complies with §15.107 and 15.109 of the FCC Rules.