

FCC EVALUATION REPORT FOR CERTIFICATION

Applicant: LG Electronics Inc.**19-1, Cheongho-ri, Jinwi-myeon,****Pyeongteak-si, Gyeonggi-do, Korea.****Attn: Mr. Do-Hyung Kim, Chief research engineer****Date of Issue: March 14, 2012****Order Number: GETEC-C1-12-070****Test Report Number: GETEC-E3-12-032****Test Site: GUMI COLLEGE EMC CENTER****FCC Registration Number: (100749, 443957)****FCC ID. : BEJDM2752D****Applicant : LG Electronics Inc.**

Rule Part(s)	: FCC Part 15 Subpart B
Equipment Class	: Class B computing device peripheral (JBP)
EUT Type	: LED LCD TV/Monitor
Type of Authority	: Certification
Model Name	: DM2752D
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 C63.4-2009 / 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,**

Hyun Kim / Engineer
GUMI COLLEGE EMC CENTER



Jae-Hoon Jeong, Senior Engineer
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: 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. Do-Hyung Kim, Chief research engineer

Tel Number: +82-31-610-9623

- **FCC ID.** BEJDM2752D
- **EUT Type** LED LCD TV/Monitor
- **Model Name** DM2752D
- **Trade Name** LG
- **Serial Number** Prototype
- **Rule Part(s)** FCC Part 15 Subpart B
- **Type of Authority** Certification
- **Test Procedure(s)** ANSI C63.4 (2009) / Canadian standard ICES-003
- **Dates of Test** February 29 ~ March 7, 2012
- **Place of Test** **GUMI COLLEGE EMC CENTER** (FCC Registration Number: 100749, 443957)
407, Bugok-Dong, Gumi-City, Gyungbok, 730-711, Republic of Korea
- **Test Report Number** GETEC-E3-12-032
- **Dates of Issue** March 14, 2012



2. Introduction

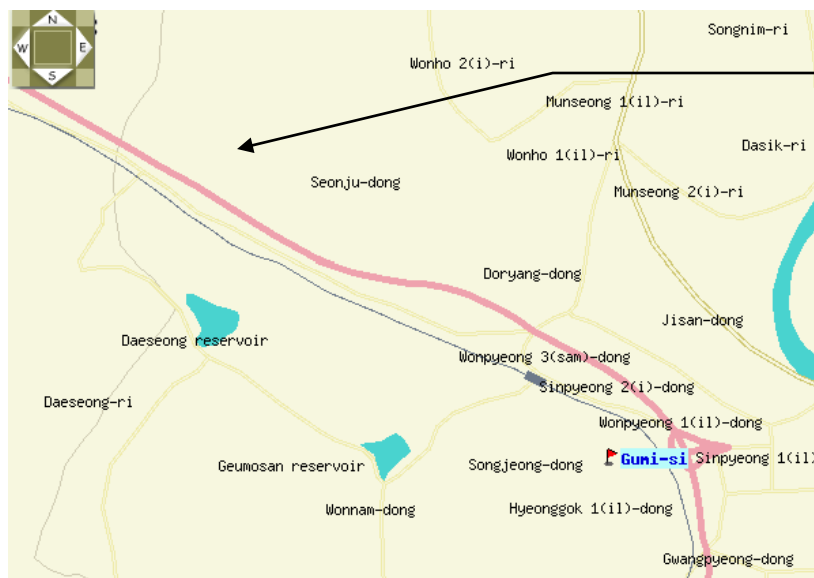
The measurement procedure described in American National Standard for Methods of Measurement of Radio-Nose Emissions From Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz (ASNI C63.4-2003) was used in determining radiated and conducted emissions emanating from **LG Electronics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

LED LCD TV/Monitor (Model Name: DM2752D)

These measurement tests were conducted at **GUMI COLLEGE EMC CENTER**

The site address is 407, Bugok-Dong, Gumi-City, Gyungbok, 730-711, Republic of 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)



GUMI COLLEGE EMC CENTER
407, Bugok-Dong, Gumi-City,
Gyungbok, 730-711, Republic of Korea
Tel.: +82-54-440-1195
Fax: +82-54-440-1199

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.**

LED LCD TV/Monitor (Model Name: DM2752D) FCC ID.: BEJDM2752D

Panel	Screen Type	685.65 mm Wide (27 inch) Visible diagonal size : 685.65 mm
	Pixel Pitch	0.31 mm (H) x 0.31 mm (V)
Video Signal	Max. Resolution	1920 × 1080 @ 60 Hz
	Recommended Resolution	1920 × 1080 @ 60 Hz
	Horizontal Frequency	30 kHz to 83 kHz
	Vertical Frequency	56 Hz to 75 Hz
	Synchronization Type	Separate Sync, Digital
Input Connector		TV, D-Sub Analog, SCART, PC Audio In, Component, CVBS, HDMI*2
Power	Rated Voltage	19 V --- A
	Power Consumption	On Mode : 31 W (typ.) Off Mode ≤ 0.4 W
AC/DC Adapter		Manufacturer: LITE-ON, Model PA-1650-64 Manufacturer: LG Innotek, Model PSAB-L101A
Tilt	Tilt Range	-5 to 20°
Dimensions (Width x Depth x Height) Weight	With Stand	
	641.3 mm x 199.4 mm x 458.3 mm 5.55 kg	
	Without Stand	
	641.3 mm x 53.0 mm x 391.2 mm 4.6 kg	

-. Maximum Frequency Range : 667 MHz



3.2 Support Equipment / Cables used

3.2.1 Used Support Equipment

Description	Manufacturer	Model Name	S/N & FCC ID.
PC	ASUSTEK COMPUTER INC.	P8H61	S/N: 0BG084-02014-MIBFE0-A05 FCC ID.: DoC
Video card	Digital Greentech Co., Ltd.	VX4850	S/N: LG1112056668 FCC ID.: DoC
PS2 keyboard	COMPAQ	166516-AD6	S/N: B13BBOR391006D FCC ID.: AQ6-23K15
USB mouse	Microsoft Corporation	1484	S/N: 0352700289761 FCC ID: DoC
DVD player	ILIKE ELECTRONICS CO., LTD.	CVX-3800 Full-HD	S/N: CVX380020110110493 FCC ID.: Verification
USB memory stick	SAMSUNG	SUM-PSB4	S/N: TBBB202478F FCC ID.: DoC
Digital TV pattern generator	Teleview	TPG430B	S/N: 93.01.20.05.09.00.00.02 FCC ID.: Verification
8-VSB modulator	Ktech	VSF-ENC-150E	S/N: 2005-726 FCC ID.: Verification

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

3.2.2 System configuration

Description	Manufacturer	Model Name	S/N & FCC ID.
IR remote controller	LG Electronics Inc.	AKB73655823	S/N: None. FCC ID.: N/A
Adapter #1 ¹⁾	LITE-ON TECHNOLOGY CORPORATION	PA-1650-64	S/N: OC2KN612314050044 FCC ID.: None.
Adapter #2 ¹⁾	LG Innotek Co., Ltd.	PSAB-L101A	S/N: LC2E1627104010036 FCC ID.: None.

1) Input ratings: AC (100 – 240) V~, (50 – 60) Hz, 1.4 A / Output ratings: DC 19 V, 2.53 A



3.2.3 Used Cable(s)

Cable Name	Condition	Description
Power cable	Connected to the adapter	1.80 m unshielded
Adapter cable	Connected to the EUT	1.50 m shielded with a ferrite core
RGB(Analog) in cable	Connected to the EUT and PC	1.50 m shielded
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	1.50 m shielded with a ferrite core
Component in cable	Connected to the EUT and DVD player	3.00 m shielded
Headset cable	Connected to the EUT and headset	1.20 m shielded
Antenna cable	Connected to the EUT and digital TV pattern generator	10.00 m shielded with two ferrite cores

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 (with adapter #1(model name: PA-1650-64 or with adapter #2(model name: PSAB-L101A)

Radiated emission: 1 920 × 1 080 / 60 Hz (RGB: Analog, HDMI/DVI: Digital)

Conducted emission: 1 920 × 1 080 / 60 Hz (RGB: Analog, HDMI/DVI: Digital),

1 024 × 768 / 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
- Continuous playback of 1 kHz audio file with winamp player
- USB memory stick was connected to the USB port

"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

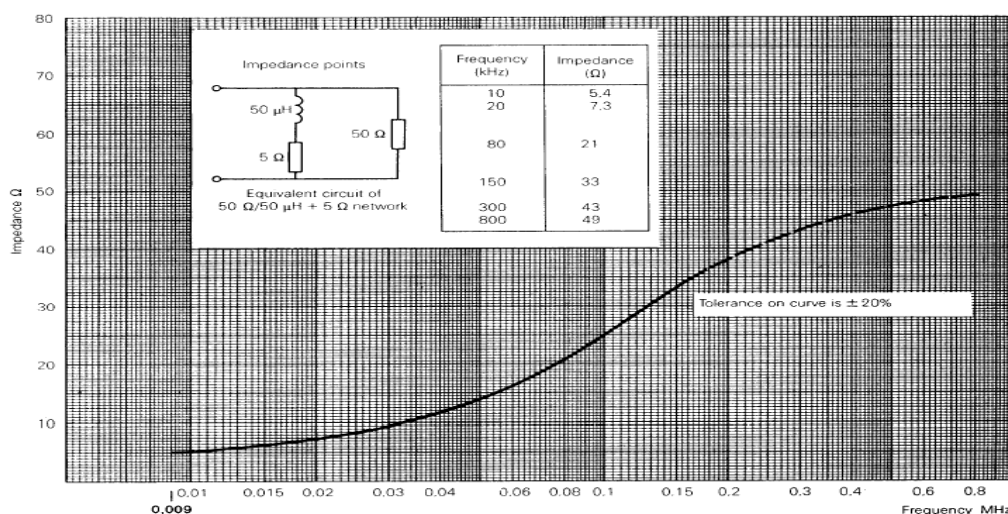


Fig 2. Impedance of LISN



4.3 Radiated Emission

Measurements (below 1 GHz) were made at Open area test site that complies to CISPR 16/ANSI C63.4. Preliminary (peak) measurements were performed at an antenna to EUT separation distance of 10 m. The EUT was rotated 360° about its azimuth with the receive antenna located at 1, 2, 3 and 4 meter heights in both horizontal and vertical polarities. Final measurements (quasi-peak or average as noted) were then performed by rotating the EUT 360° and adjusting the receive antenna height from 1.0 m to 4.0 m. All frequencies were investigated in both horizontal and vertical antenna polarity, where applicable.

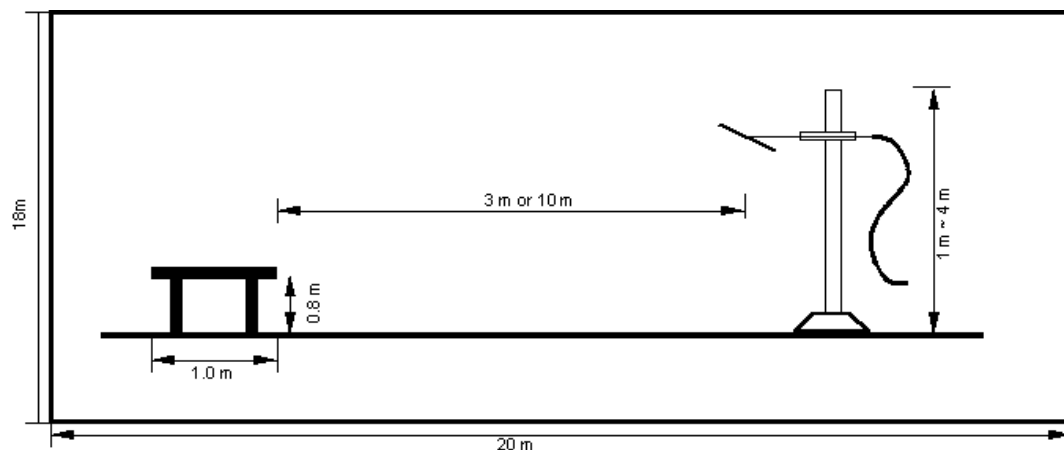


Fig 3. Dimensions of test site

The measurements (above 1 GHz) were made 3 m distance test site that complies to CISPR 16-1-4 (2007). In order to meet SVSWR Limit (Within 6 dB), the bottom side of test site was installed with absorbers. 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. The measurements were conducted with Average and Peak value.

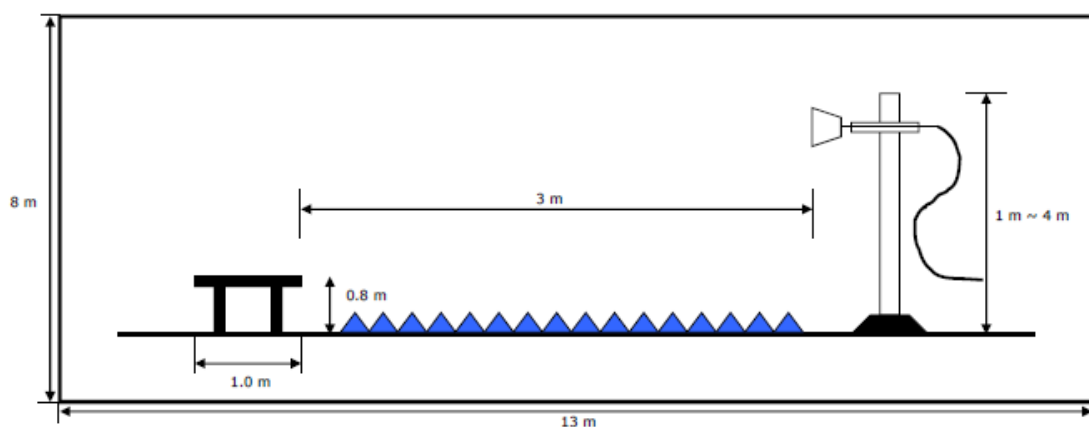


Fig 4. Dimensions of test site



5. Conducted Emission

5.1 Operating Environment

Temperature : 22.0 °C
Relative Humidity : 38.0 % 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 & ISN.

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)	± 2.71 dB	Confidence level of approximately 95 % ($k = 2$)
Conducted emission (150 kHz ~ 30 MHz)	± 3.34 dB	Confidence level of approximately 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

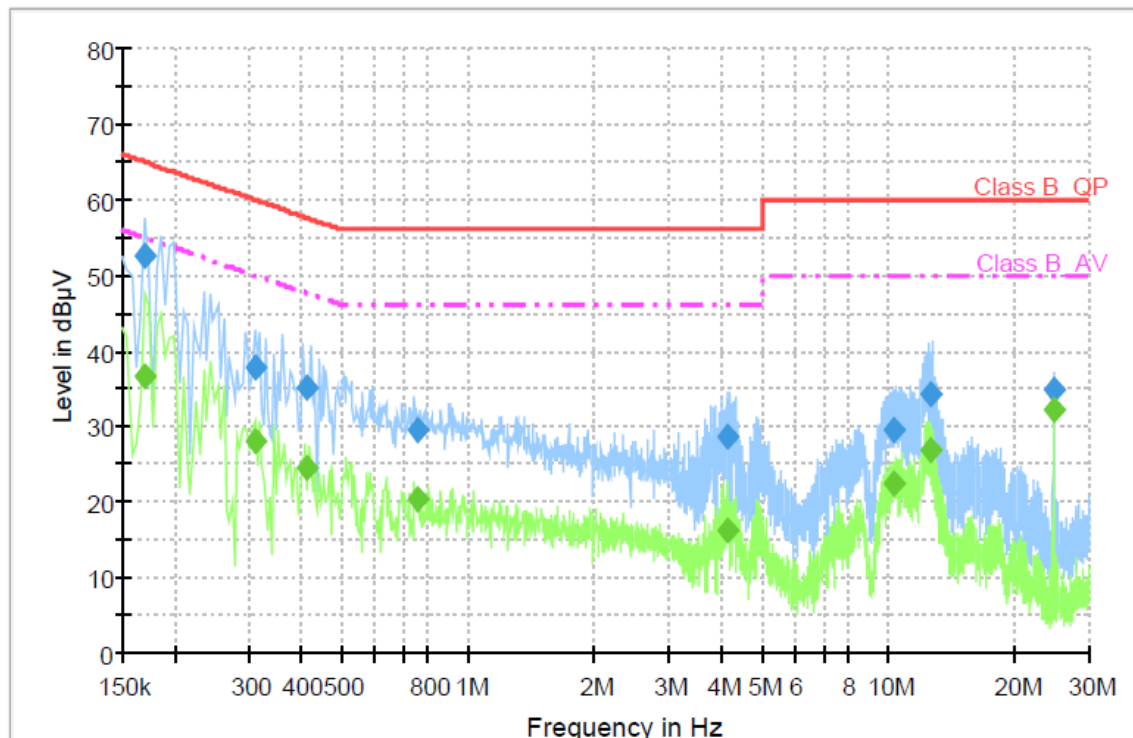
Model Name	Manufacturer	Description	Serial Number	Due to Calibration
■ - ESCS30	Rohde & Schwarz	EMI Test Receiver	839809/003	12. 05. 2012
■ - ESH3-Z5	Rohde & Schwarz	LISN	838979/020	12. 07. 2012
■ - ESH2-Z5	Rohde & Schwarz	LISN	829991/009	12. 07. 2012
□ - ENY81-CA6	Rohde & Schwarz	ISN	101573	10. 19. 2012

5.6 Test data for Conducted Emission

- . Test Date : February 29, 2012
- . Resolution Bandwidth : 9 kHz
- . Frequency Range : 0.15 MHz ~ 30 MHz
- . Line : L1: Live, N: Neutral



◆ Operating condition: Monitor with adapter #1, 1 920 × 1 080 / 60 Hz(RGB: Analog)



Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.170000	52.4	1000.0	9.000	GND	L1	10.1	12.6	65.0	
0.312000	37.9	1000.0	9.000	GND	L1	10.1	22.0	59.9	
0.412000	35.3	1000.0	9.000	GND	L1	10.1	22.3	57.6	
0.760000	29.6	1000.0	9.000	GND	N	10.1	26.4	56.0	
4.128000	28.6	1000.0	9.000	GND	N	10.3	27.4	56.0	
10.344000	29.5	1000.0	9.000	GND	N	10.3	30.5	60.0	
12.652000	34.2	1000.0	9.000	GND	N	10.3	25.8	60.0	
24.780000	34.9	1000.0	9.000	GND	N	10.4	25.1	60.0	

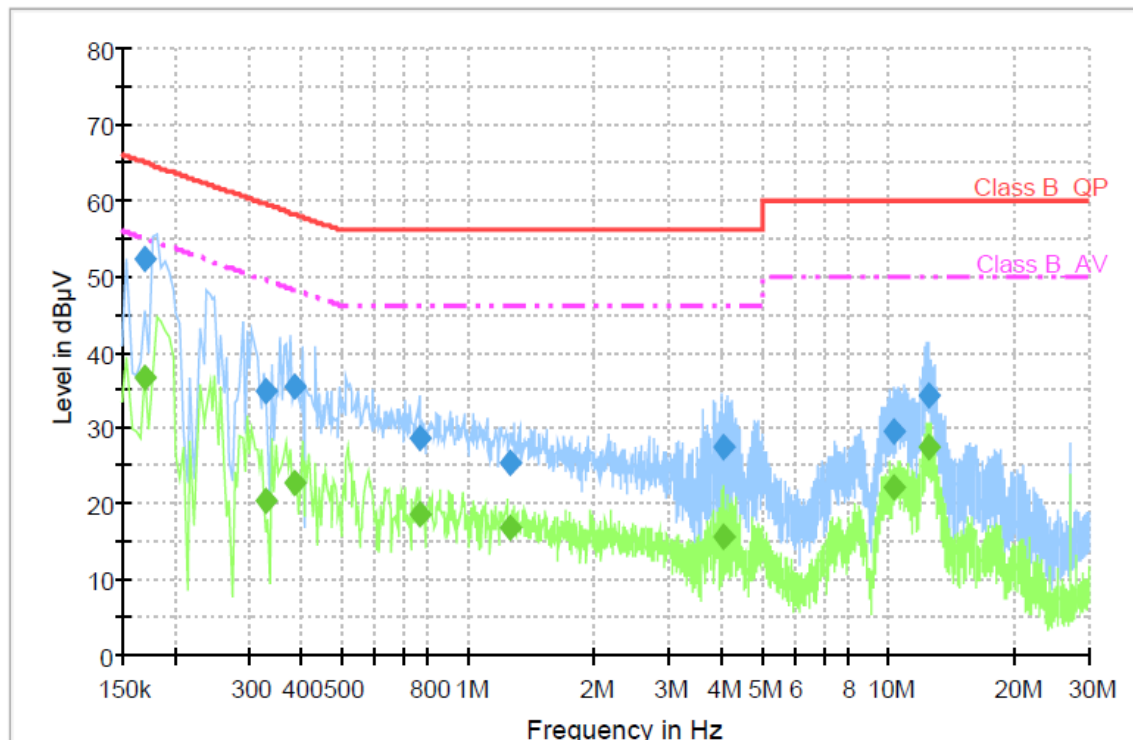
Final Result 2

Frequency (MHz)	CAverage (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.170000	36.7	1000.0	9.000	GND	L1	10.1	18.3	55.0	
0.312000	27.9	1000.0	9.000	GND	L1	10.1	22.0	49.9	
0.412000	24.6	1000.0	9.000	GND	L1	10.1	23.1	47.6	
0.760000	20.4	1000.0	9.000	GND	N	10.1	25.6	46.0	
4.128000	16.3	1000.0	9.000	GND	N	10.3	29.7	46.0	
10.344000	22.3	1000.0	9.000	GND	N	10.3	27.7	50.0	
12.652000	26.8	1000.0	9.000	GND	N	10.3	23.2	50.0	
24.780000	32.1	1000.0	9.000	GND	N	10.4	17.9	50.0	

< Fig 4. Conducted emission result >



◆ Operating condition: Monitor with adapter #1, 1 024 × 768 / 60 Hz(RGB: Analog)



Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.170000	52.3	1000.0	9.000	GND	L1	10.1	12.7	65.0	
0.328000	34.8	1000.0	9.000	GND	L1	10.1	24.7	59.5	
0.384000	35.5	1000.0	9.000	GND	L1	10.1	22.7	58.2	
0.768000	28.5	1000.0	9.000	GND	N	10.1	27.5	56.0	
1.256000	25.3	1000.0	9.000	GND	L1	10.2	30.7	56.0	
4.056000	27.5	1000.0	9.000	GND	N	10.3	28.5	56.0	
10.332000	29.5	1000.0	9.000	GND	N	10.3	30.5	60.0	
12.492000	34.3	1000.0	9.000	GND	N	10.3	25.7	60.0	

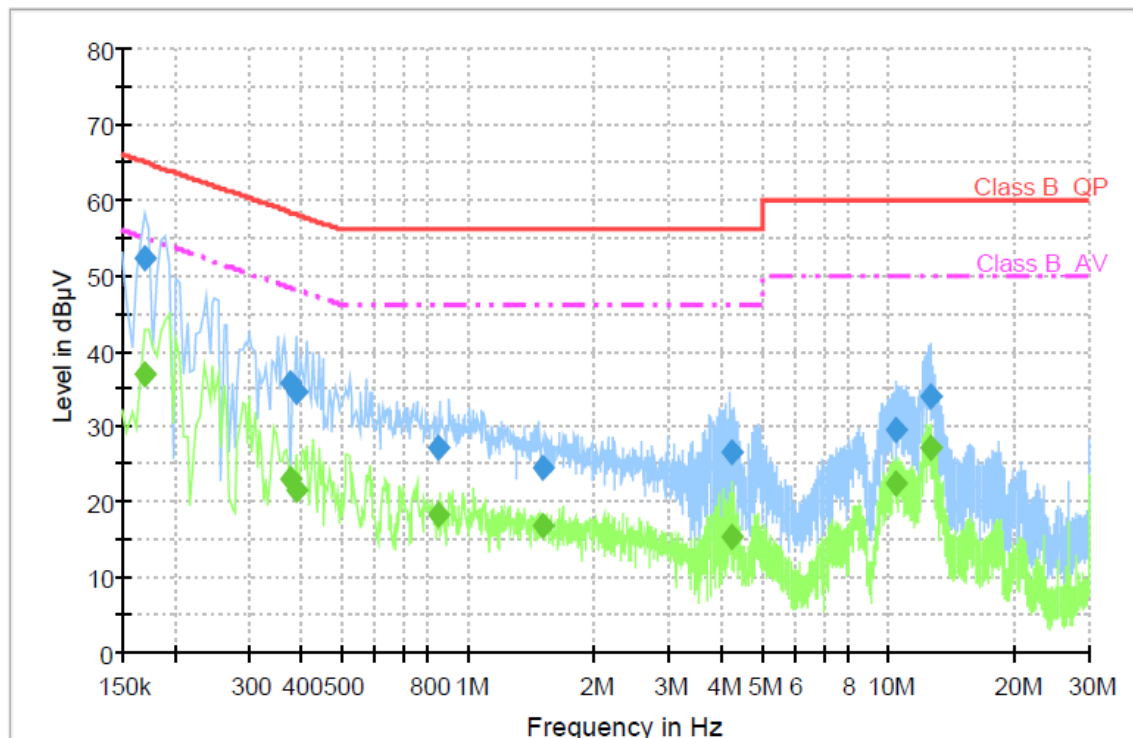
Final Result 2

Frequency (MHz)	CAverage (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.170000	36.5	1000.0	9.000	GND	L1	10.1	18.4	55.0	
0.328000	20.4	1000.0	9.000	GND	L1	10.1	29.1	49.5	
0.384000	22.7	1000.0	9.000	GND	L1	10.1	25.5	48.2	
0.768000	18.6	1000.0	9.000	GND	N	10.1	27.4	46.0	
1.256000	16.8	1000.0	9.000	GND	L1	10.2	29.2	46.0	
4.056000	15.8	1000.0	9.000	GND	N	10.3	30.2	46.0	
10.332000	22.1	1000.0	9.000	GND	N	10.3	27.9	50.0	
12.492000	27.5	1000.0	9.000	GND	N	10.3	22.5	50.0	

< Fig 5. Conducted emission result >



◆ Operating condition: Monitor with adapter #1, 640 × 480 / 60 Hz(RGB: Analog)



Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.170000	52.4	1000.0	9.000	GND	N	10.1	12.6	65.0	
0.376000	35.7	1000.0	9.000	GND	L1	10.1	22.6	58.4	
0.392000	34.7	1000.0	9.000	GND	L1	10.1	23.3	58.0	
0.852000	27.1	1000.0	9.000	GND	N	10.1	28.9	56.0	
1.504000	24.6	1000.0	9.000	GND	L1	10.2	31.4	56.0	
4.216000	26.5	1000.0	9.000	GND	L1	10.3	29.5	56.0	
10.372000	29.6	1000.0	9.000	GND	N	10.3	30.4	60.0	
12.556000	34.1	1000.0	9.000	GND	N	10.3	25.9	60.0	

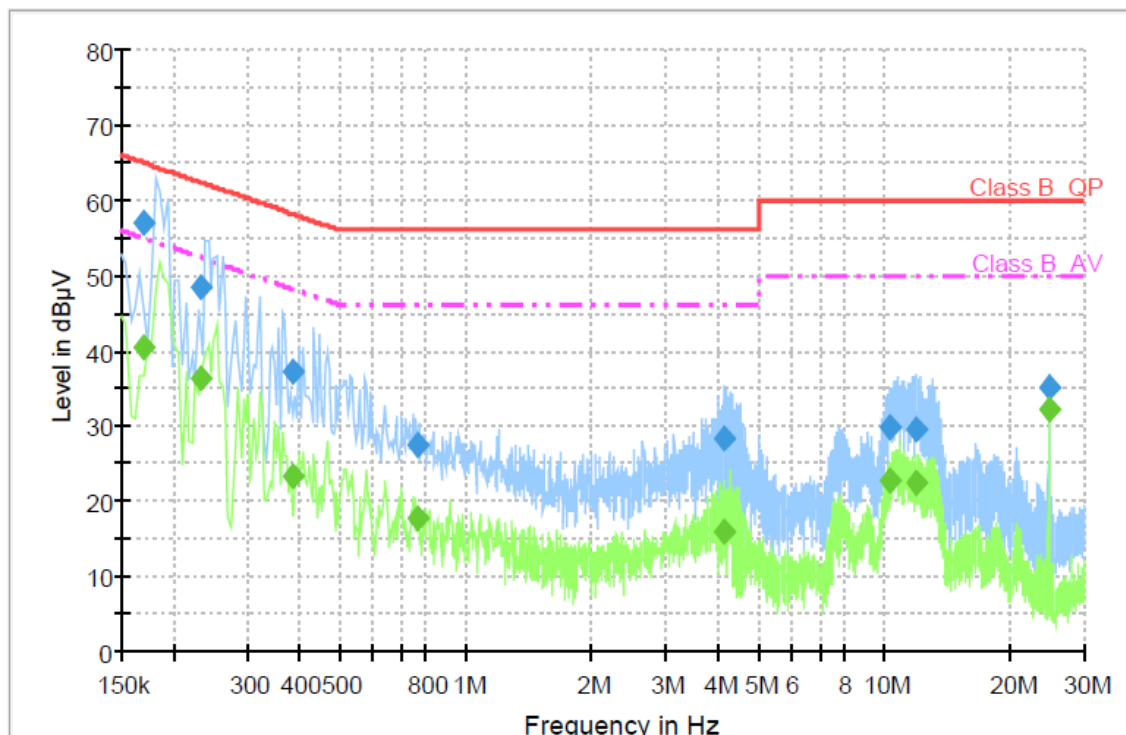
Final Result 2

Frequency (MHz)	CAverage (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.170000	36.8	1000.0	9.000	GND	N	10.1	18.2	55.0	
0.376000	23.1	1000.0	9.000	GND	L1	10.1	25.3	48.4	
0.392000	21.5	1000.0	9.000	GND	L1	10.1	26.5	48.0	
0.852000	18.4	1000.0	9.000	GND	N	10.1	27.6	46.0	
1.504000	16.7	1000.0	9.000	GND	L1	10.2	29.3	46.0	
4.216000	15.3	1000.0	9.000	GND	L1	10.3	30.7	46.0	
10.372000	22.3	1000.0	9.000	GND	N	10.3	27.7	50.0	
12.556000	27.0	1000.0	9.000	GND	N	10.3	23.0	50.0	

< Fig 6. Conducted emission result >



◆ Operating condition: Monitor with adapter #1, 1 920 × 1 080 / 60 Hz(HDMI/DVI: Digital)



Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.170000	57.0	1000.0	9.000	GND	L1	10.1	7.9	65.0	
0.232000	48.3	1000.0	9.000	GND	L1	10.1	14.1	62.4	
0.384000	37.3	1000.0	9.000	GND	L1	10.1	20.9	58.2	
0.768000	27.5	1000.0	9.000	GND	N	10.1	28.5	56.0	
4.132000	28.4	1000.0	9.000	GND	N	10.3	27.6	56.0	
10.348000	29.9	1000.0	9.000	GND	N	10.3	30.1	60.0	
11.888000	29.5	1000.0	9.000	GND	L1	10.3	30.5	60.0	
24.780000	35.1	1000.0	9.000	GND	L1	10.4	24.9	60.0	

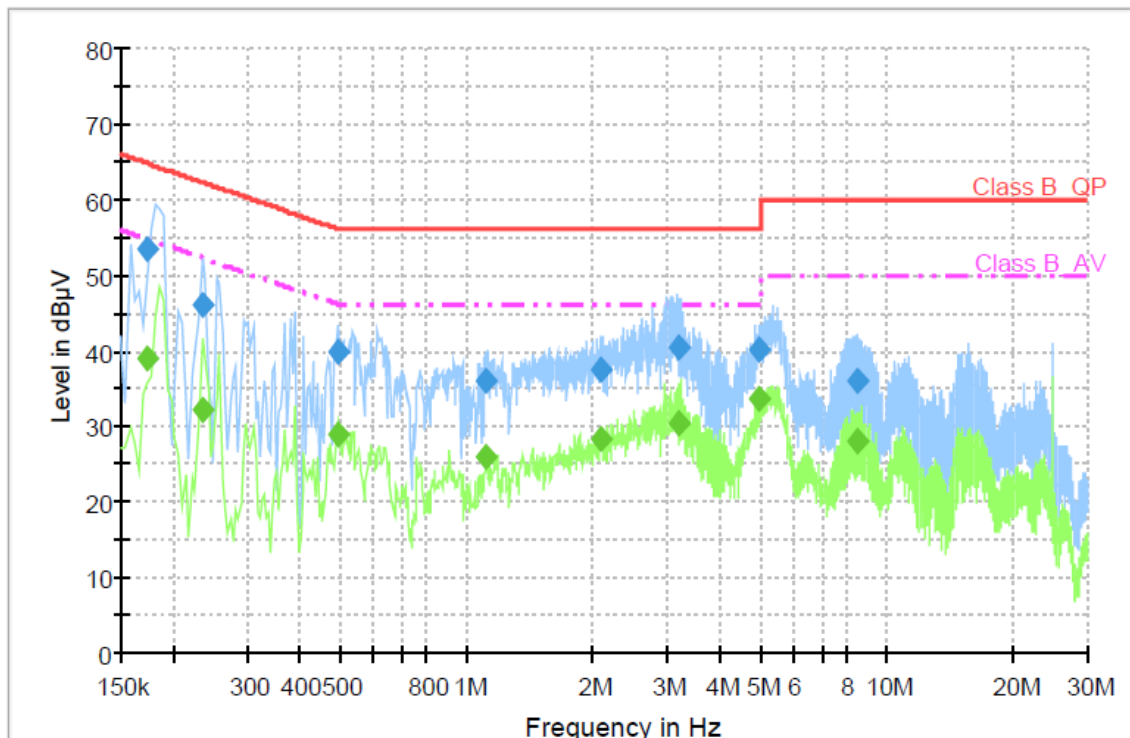
Final Result 2

Frequency (MHz)	CAverage (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.170000	40.3	1000.0	9.000	GND	L1	10.1	14.7	55.0	
0.232000	36.3	1000.0	9.000	GND	L1	10.1	16.0	52.4	
0.384000	23.4	1000.0	9.000	GND	L1	10.1	24.7	48.2	
0.768000	17.8	1000.0	9.000	GND	N	10.1	28.2	46.0	
4.132000	16.0	1000.0	9.000	GND	N	10.3	30.0	46.0	
10.348000	22.9	1000.0	9.000	GND	N	10.3	27.1	50.0	
11.888000	22.4	1000.0	9.000	GND	L1	10.3	27.6	50.0	
24.780000	32.3	1000.0	9.000	GND	L1	10.4	17.7	50.0	

< Fig 7. Conducted emission result >



◆ Operating condition: Monitor with adapter #2, 1 920 × 1 080 / 60 Hz(RGB: Analog)



Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.174000	53.5	1000.0	9.000	GND	N	10.1	11.3	64.8	
0.236000	46.1	1000.0	9.000	GND	L1	10.1	16.1	62.2	
0.496000	39.9	1000.0	9.000	GND	L1	10.1	16.2	56.1	
1.116000	36.1	1000.0	9.000	GND	L1	10.2	19.9	56.0	
2.084000	37.4	1000.0	9.000	GND	L1	10.2	18.6	56.0	
3.188000	40.4	1000.0	9.000	GND	N	10.2	15.6	56.0	
4.980000	40.1	1000.0	9.000	GND	N	10.3	15.9	56.0	
8.468000	35.9	1000.0	9.000	GND	L1	10.3	24.1	60.0	

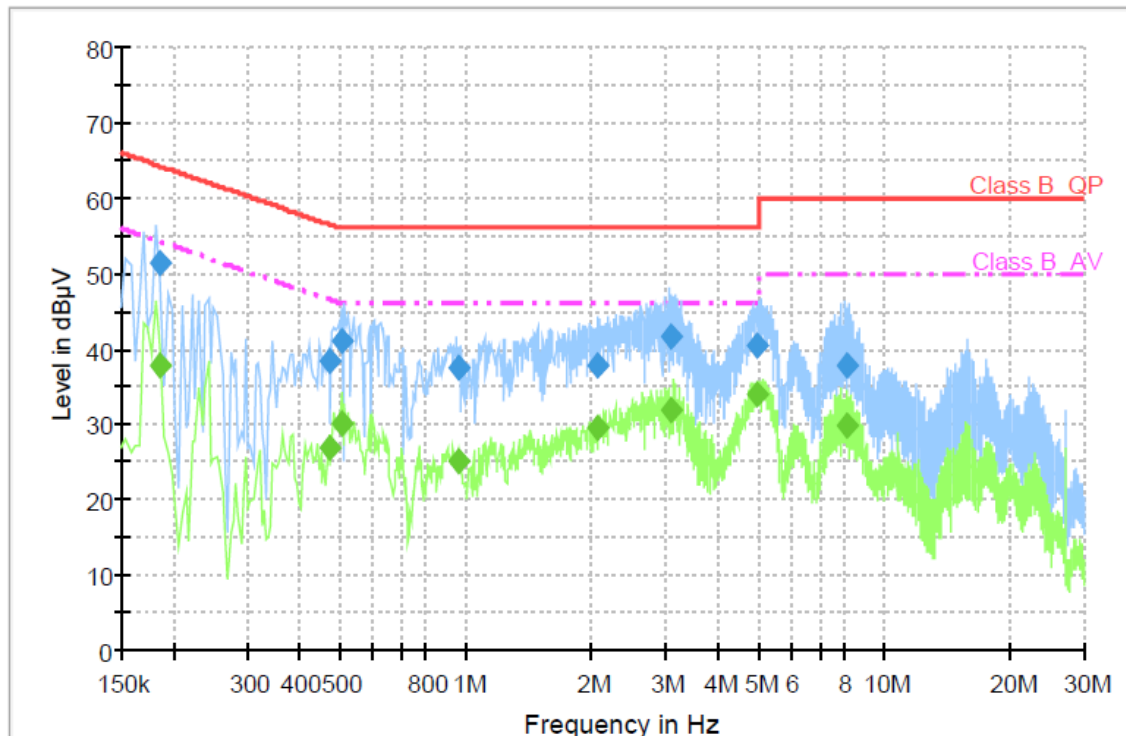
Final Result 2

Frequency (MHz)	CAverage (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.174000	38.9	1000.0	9.000	GND	N	10.1	15.8	54.8	
0.236000	32.2	1000.0	9.000	GND	L1	10.1	20.0	52.2	
0.496000	28.8	1000.0	9.000	GND	L1	10.1	17.2	46.1	
1.116000	25.9	1000.0	9.000	GND	L1	10.2	20.1	46.0	
2.084000	28.3	1000.0	9.000	GND	L1	10.2	17.7	46.0	
3.188000	30.6	1000.0	9.000	GND	N	10.2	15.4	46.0	
4.980000	33.7	1000.0	9.000	GND	N	10.3	12.3	46.0	
8.468000	28.1	1000.0	9.000	GND	L1	10.3	21.9	50.0	

< Fig 8. Conducted emission result >



◆ Operating condition: Monitor with adapter #2, 1 024 × 768 / 60 Hz(RGB: Analog)



Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.186000	51.4	1000.0	9.000	GND	L1	10.1	12.8	64.2	
0.472000	38.3	1000.0	9.000	GND	L1	10.1	18.2	56.5	
0.508000	40.9	1000.0	9.000	GND	L1	10.1	15.1	56.0	
0.964000	37.6	1000.0	9.000	GND	L1	10.1	18.4	56.0	
2.072000	37.8	1000.0	9.000	GND	L1	10.2	18.2	56.0	
3.076000	41.7	1000.0	9.000	GND	L1	10.2	14.3	56.0	
4.972000	40.5	1000.0	9.000	GND	N	10.3	15.5	56.0	
8.124000	37.8	1000.0	9.000	GND	N	10.3	22.2	60.0	

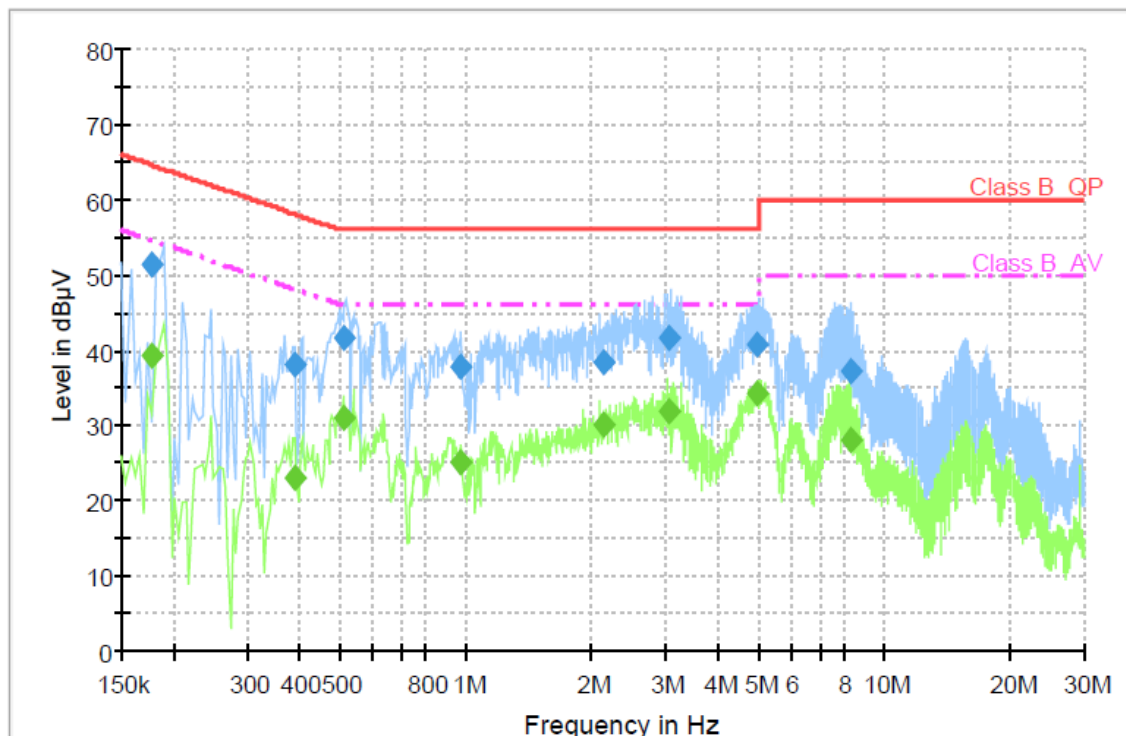
Final Result 2

Frequency (MHz)	CAverage (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.186000	37.9	1000.0	9.000	GND	L1	10.1	16.4	54.2	
0.472000	26.8	1000.0	9.000	GND	L1	10.1	19.6	46.5	
0.508000	30.1	1000.0	9.000	GND	L1	10.1	15.9	46.0	
0.964000	24.9	1000.0	9.000	GND	L1	10.1	21.1	46.0	
2.072000	29.5	1000.0	9.000	GND	L1	10.2	16.5	46.0	
3.076000	31.9	1000.0	9.000	GND	L1	10.2	14.1	46.0	
4.972000	34.1	1000.0	9.000	GND	N	10.3	12.0	46.0	
8.124000	29.7	1000.0	9.000	GND	N	10.3	20.3	50.0	

< Fig 9. Conducted emission result >



◆ Operating condition: Monitor with adapter #2, 640 × 480 / 60 Hz(RGB: Analog)



Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.178000	51.4	1000.0	9.000	GND	N	10.1	13.2	64.6	
0.392000	38.2	1000.0	9.000	GND	N	10.1	19.8	58.0	
0.512000	41.7	1000.0	9.000	GND	N	10.1	14.3	56.0	
0.972000	37.7	1000.0	9.000	GND	L1	10.1	18.3	56.0	
2.140000	38.5	1000.0	9.000	GND	L1	10.2	17.5	56.0	
3.072000	41.7	1000.0	9.000	GND	N	10.2	14.3	56.0	
4.952000	40.8	1000.0	9.000	GND	L1	10.3	15.2	56.0	
8.320000	37.3	1000.0	9.000	GND	N	10.3	22.7	60.0	

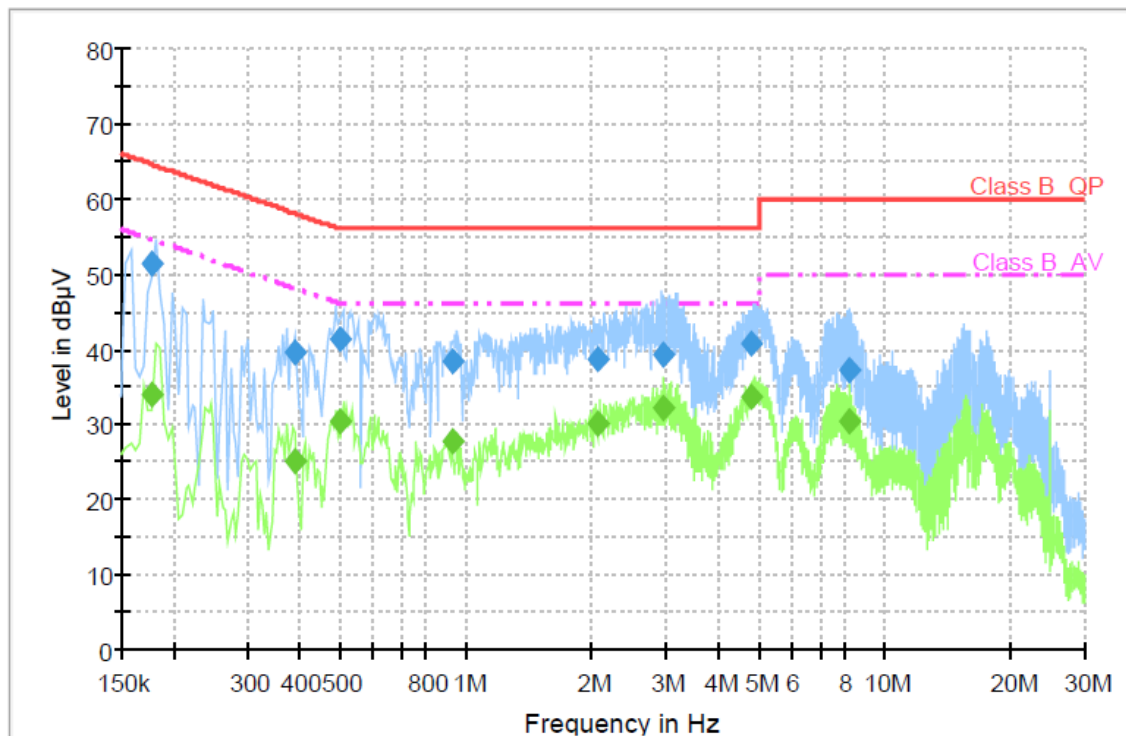
Final Result 2

Frequency (MHz)	CAverage (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.178000	39.3	1000.0	9.000	GND	N	10.1	15.3	54.6	
0.392000	23.1	1000.0	9.000	GND	N	10.1	25.0	48.0	
0.512000	30.9	1000.0	9.000	GND	N	10.1	15.1	46.0	
0.972000	25.2	1000.0	9.000	GND	L1	10.1	20.8	46.0	
2.140000	30.0	1000.0	9.000	GND	L1	10.2	16.0	46.0	
3.072000	32.0	1000.0	9.000	GND	N	10.2	14.0	46.0	
4.952000	34.3	1000.0	9.000	GND	L1	10.3	11.7	46.0	
8.320000	28.0	1000.0	9.000	GND	N	10.3	22.0	50.0	

< Fig 10. Conducted emission result >



◆ Operating condition: Monitor with adapter #2, 1 920 × 1 080 / 60 Hz(HDMI/DVI: Digital)



Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.178000	51.4	1000.0	9.000	GND	L1	10.1	13.1	64.6	
0.392000	39.5	1000.0	9.000	GND	L1	10.1	18.5	58.0	
0.500000	41.3	1000.0	9.000	GND	L1	10.1	14.7	56.0	
0.924000	38.2	1000.0	9.000	GND	N	10.2	17.8	56.0	
2.060000	38.7	1000.0	9.000	GND	N	10.2	17.3	56.0	
2.956000	39.3	1000.0	9.000	GND	N	10.2	16.7	56.0	
4.812000	40.8	1000.0	9.000	GND	L1	10.3	15.2	56.0	
8.192000	37.3	1000.0	9.000	GND	N	10.3	22.7	60.0	

Final Result 2

Frequency (MHz)	CAverage (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.178000	33.9	1000.0	9.000	GND	L1	10.1	20.7	54.6	
0.392000	25.0	1000.0	9.000	GND	L1	10.1	23.0	48.0	
0.500000	30.3	1000.0	9.000	GND	L1	10.1	15.7	46.0	
0.924000	27.7	1000.0	9.000	GND	N	10.2	18.3	46.0	
2.060000	30.2	1000.0	9.000	GND	N	10.2	15.8	46.0	
2.956000	32.2	1000.0	9.000	GND	N	10.2	13.8	46.0	
4.812000	33.8	1000.0	9.000	GND	L1	10.3	12.2	46.0	
8.192000	30.3	1000.0	9.000	GND	N	10.3	19.7	50.0	

< Fig 11. Conducted emission result >



6. Radiated Emission

6.1 Operating Environment

Temperature : 23.0 °C
Relative Humidity : 40.0 % 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(Anechoic Chamber)	Uncertainty	Remark
Radiated emission (30 MHz ~ 300 MHz, 3 m, Vertical)	± 4.38 dB	Confidence level of approximately 95 % ($k = 2$)
Radiated emission (30 MHz ~ 300 MHz, 3 m, Horizontal)	± 3.50 dB	Confidence level of approximately 95 % ($k = 2$)
Radiated emission (300 MHz ~ 1 000 MHz, 3 m, Vertical)	± 3.75 dB	Confidence level of approximately 95 % ($k = 2$)
Radiated emission (300 MHz ~ 1 000 MHz, 3 m, Horizontal)	± 3.59 dB	Confidence level of approximately 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
■ - ESIB26	Rohde & Schwarz	EMI Test Receiver	830482/010	12. 05. 2012
■ - VULB9160	Schwarzbeck	Broadband Test Antenna	3099	08. 07. 2013
■ - BBHA9120D	Schwarzbeck	Horn Antenna	597	01. 23. 2013
■ - MCU066	maturo GmbH	Position Controller	1390306	N/A
■ - TT2.5SI	maturo GmbH	Turntable	1390307	N/A
■ - AM 4.0	maturo GmbH	Antenna Mast	1390308	N/A
■ - AFS 44 00101800-25-10P-44	MITEQ	Preamplifier	1258943	11. 12. 2012

6.6 Test data for Radiated Emission

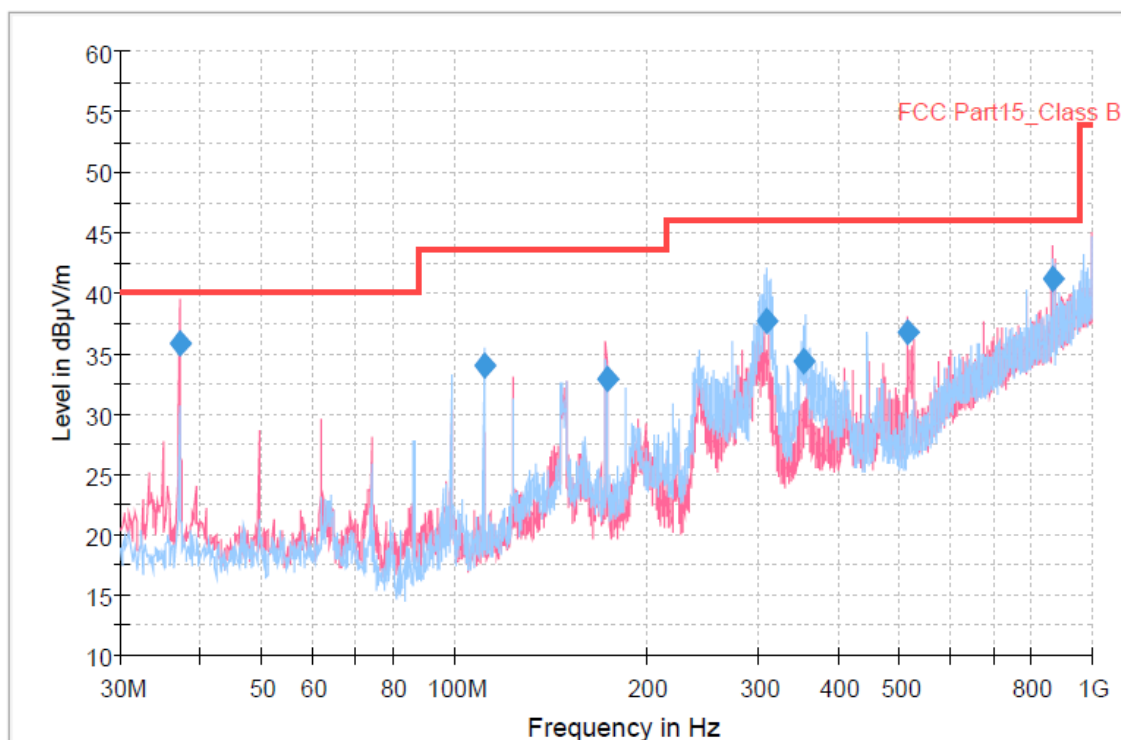
- Test Date : February 29 ~ March 7, 2012
- Measurement Distance : 3 m
- Note : The highest frequency of the internal source of the EUT is between 500 MHz and 1 000 MHz (667 MHz). The measurement was made up to 5 000 MHz

- Measurement

Frequency range	30 MHz ~ 1 GHz	Above 1 GHz
Detector mode	Quasi peak	Peak / Average
Resolution bandwidth	120 kHz	1 MHz



- ◆ Operating condition: Monitor with adapter #1, 1 920 × 1 080 / 60 Hz(RGB: Analog)



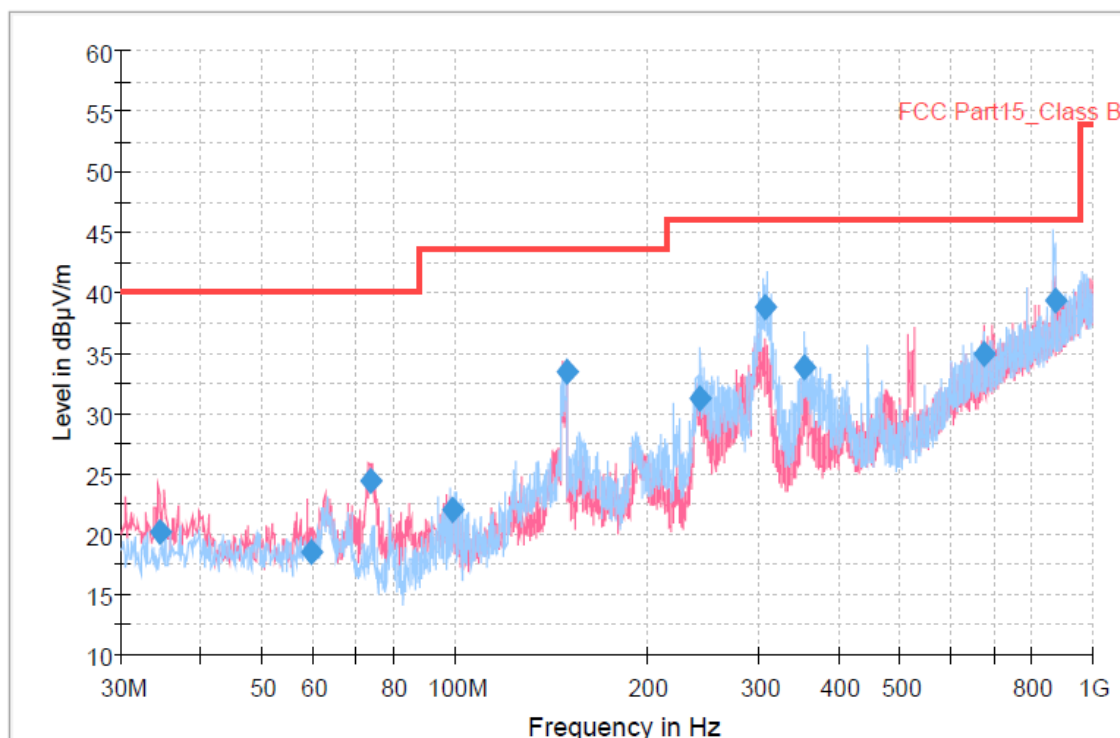
Final Result 1

Frequency (MHz)	QuasiPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
37.132500	35.7	1000.0	120.000	100.0	V	114.0	12.8	4.3	40.0
111.378750	34.0	1000.0	120.000	200.0	H	250.0	12.2	9.5	43.5
173.256250	32.9	1000.0	120.000	100.0	V	312.0	14.2	10.6	43.5
309.547500	37.7	1000.0	120.000	150.0	H	230.0	16.3	8.3	46.0
354.173750	34.4	1000.0	120.000	109.0	H	166.0	17.5	11.6	46.0
515.151250	36.8	1000.0	120.000	100.0	V	174.0	21.5	9.2	46.0
872.065000	41.2	1000.0	120.000	100.0	H	286.0	28.6	4.8	46.0

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



- ◆ Operating condition: Monitor with adapter #1, 1 920 × 1 080 / 60 Hz(HDMI/DVI: Digital)



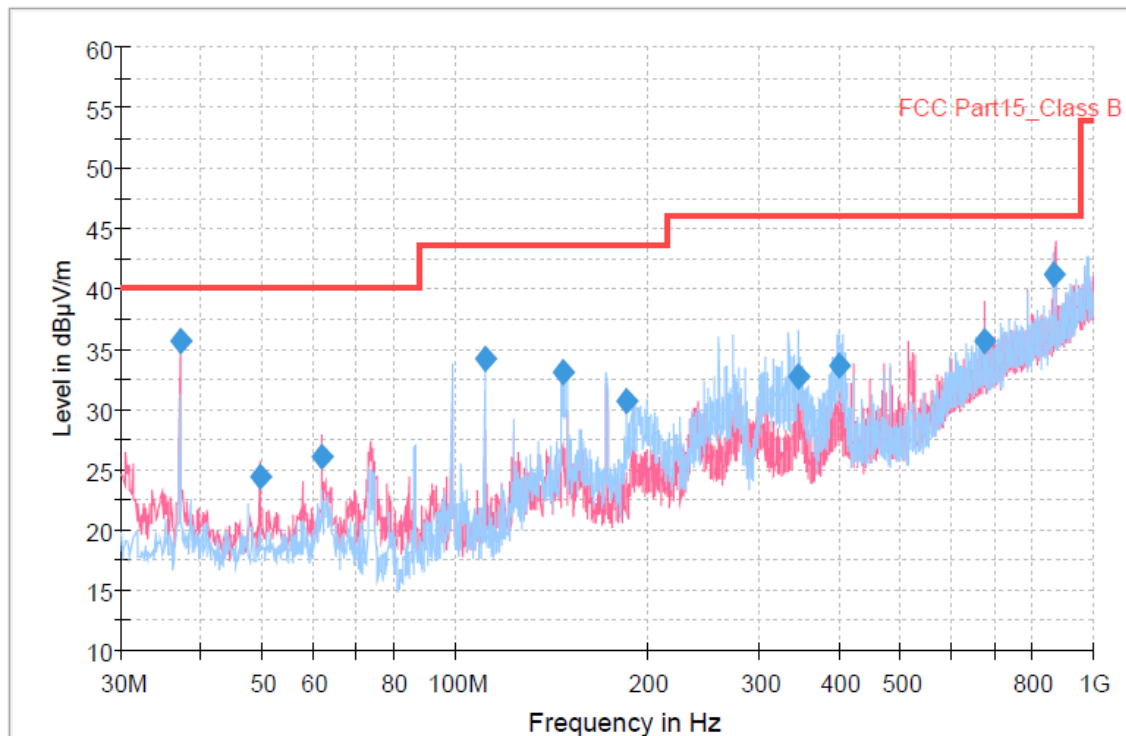
Final Result 1

Frequency (MHz)	QuasiPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
34.505000	20.2	1000.0	120.000	100.0	V	221.0	12.8	19.8	40.0
59.716250	18.4	1000.0	120.000	100.0	V	183.0	13.3	21.6	40.0
73.988750	24.4	1000.0	120.000	100.0	V	127.0	10.6	15.6	40.0
99.563750	21.9	1000.0	120.000	200.0	H	239.0	10.9	21.6	43.5
150.017500	33.4	1000.0	120.000	200.0	H	336.0	14.7	10.1	43.5
242.857500	31.2	1000.0	120.000	100.0	H	130.0	13.6	14.8	46.0
307.978750	38.8	1000.0	120.000	100.0	H	228.0	16.2	7.2	46.0
353.623750	33.8	1000.0	120.000	100.0	H	169.0	17.5	12.2	46.0
676.487500	34.8	1000.0	120.000	100.0	V	212.0	25.5	11.2	46.0
872.580000	39.3	1000.0	120.000	150.0	H	263.0	28.6	6.7	46.0

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



- ◆ Operating condition: Monitor with adapter #2, 1 920 × 1 080 / 60 Hz(RGB: Analog)



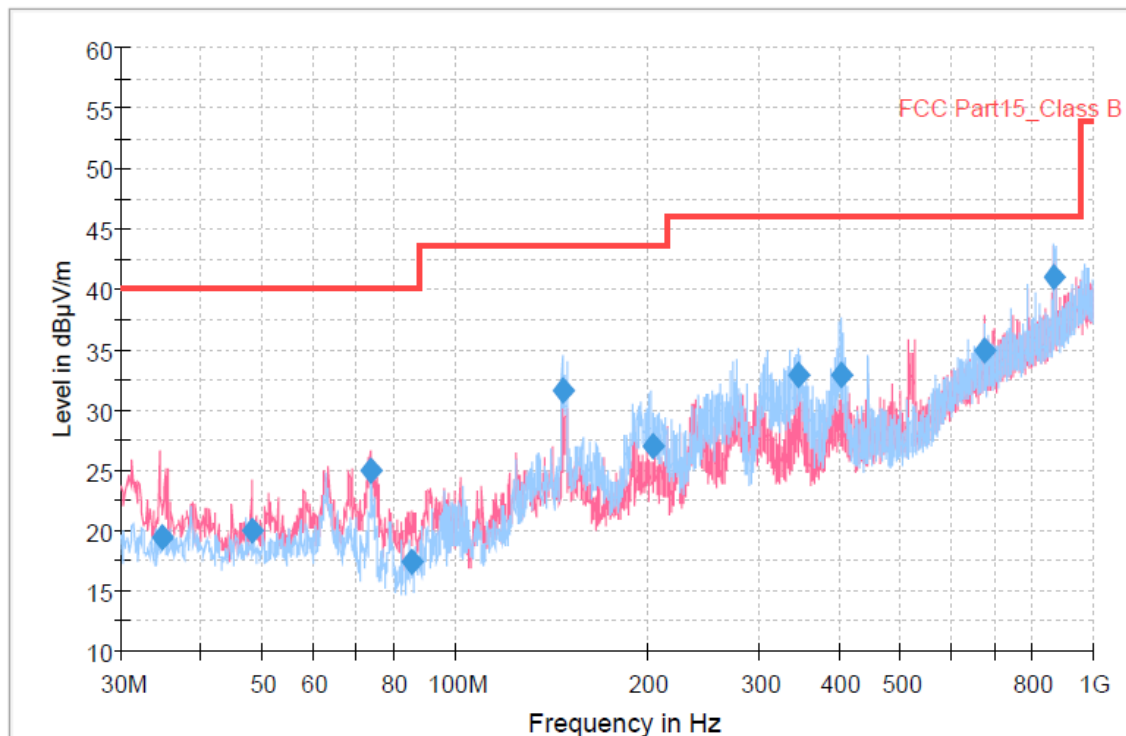
Final Result 1

Frequency (MHz)	QuasiPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
37.132500	35.6	1000.0	120.000	100.0	V	105.0	12.8	4.4	40.0
49.500000	24.3	1000.0	120.000	100.0	V	301.0	13.5	15.7	40.0
61.867500	26.1	1000.0	120.000	121.0	V	221.0	12.9	13.9	40.0
111.378750	34.2	1000.0	120.000	148.0	H	254.0	12.2	9.3	43.5
147.268750	33.0	1000.0	120.000	198.0	H	304.0	14.6	10.5	43.5
185.583750	30.6	1000.0	120.000	148.0	H	179.0	13.2	12.9	43.5
345.880000	32.7	1000.0	120.000	100.0	H	75.0	17.3	13.3	46.0
401.032500	33.5	1000.0	120.000	100.0	H	171.0	18.7	12.5	46.0
673.818750	35.7	1000.0	120.000	120.0	V	201.0	25.5	10.3	46.0
871.865000	41.2	1000.0	120.000	100.0	V	88.0	28.6	4.8	46.0

< Fig 14. Radiated emission result (30 MHz ~ 1 000 MHz) >



- ◆ Operating condition: Monitor with adapter #2, 1 920 × 1 080 / 60 Hz(HDMI/DVI: Digital)



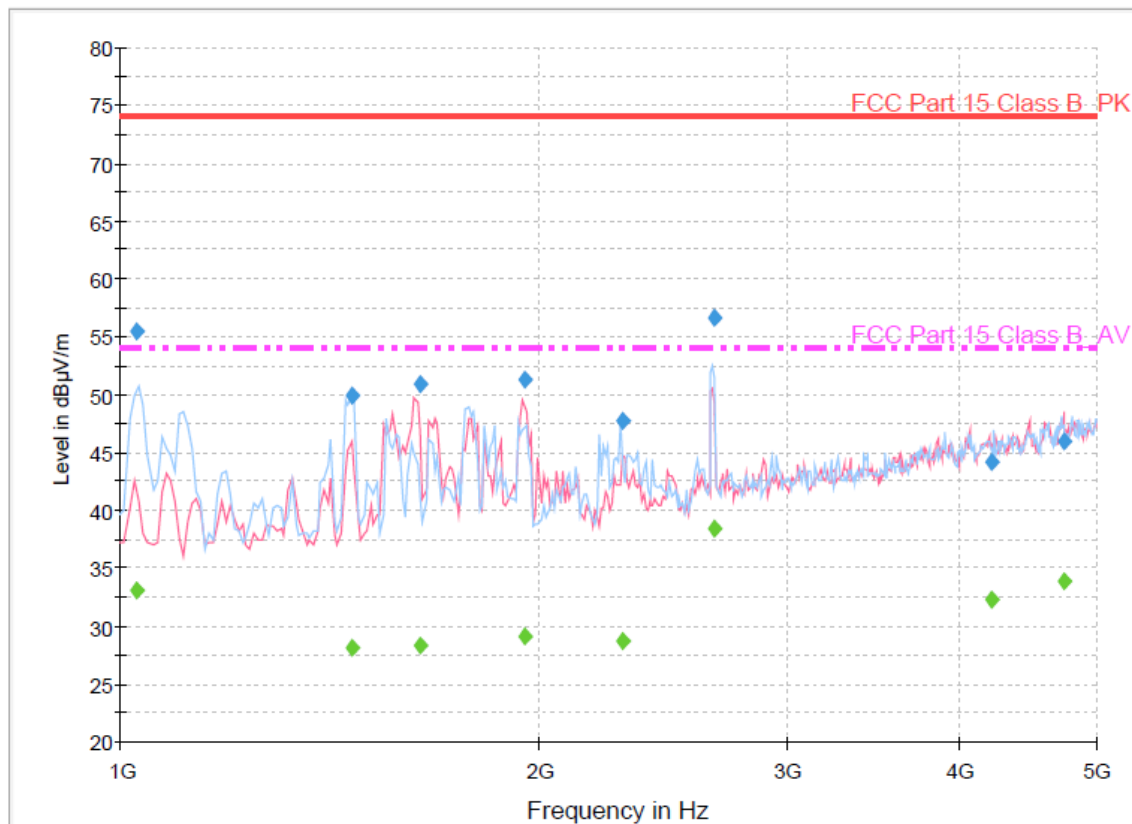
Final Result 1

Frequency (MHz)	QuasiPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
34.786250	19.4	1000.0	120.000	100.0	V	199.0	12.8	20.6	40.0
48.086250	20.1	1000.0	120.000	100.0	V	282.0	13.4	20.0	40.0
73.670000	25.0	1000.0	120.000	150.0	V	153.0	10.7	15.0	40.0
85.441250	17.5	1000.0	120.000	200.0	V	-3.0	9.5	22.5	40.0
147.268750	31.6	1000.0	120.000	200.0	H	316.0	14.6	11.9	43.5
203.846250	27.0	1000.0	120.000	100.0	H	190.0	11.7	16.5	43.5
345.916250	32.9	1000.0	120.000	110.0	H	78.0	17.3	13.1	46.0
402.740000	33.0	1000.0	120.000	110.0	H	191.0	18.8	13.0	46.0
676.687500	35.0	1000.0	120.000	120.0	V	197.0	25.5	11.0	46.0
872.030000	41.0	1000.0	120.000	100.0	H	287.0	28.6	5.0	46.0

< Fig 15. Radiated emission result (30 MHz ~ 1 000 MHz) >



- ◆ Operating condition: Monitor with adapter #1, 1 920 × 1 080 / 60 Hz(RGB: Analog)
Green marker: Average detector, Blue marker: 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)
1029.864128	55.5	1000.0	1000.000	115.0	H	3.0	-14.2	18.5	74.0
1465.129860	49.8	1000.0	1000.000	165.0	H	340.0	-12.7	24.2	74.0
1641.050501	50.9	1000.0	1000.000	100.0	V	336.0	-12.2	23.1	74.0
1947.691784	51.3	1000.0	1000.000	100.0	V	331.0	-11.4	22.7	74.0
2287.965130	47.7	1000.0	1000.000	100.0	H	310.0	-9.7	26.3	74.0
2661.118637	56.6	1000.0	1000.000	145.0	H	-2.0	-7.8	17.4	74.0
4205.860922	44.2	1000.0	1000.000	186.0	H	53.0	-2.1	29.8	74.0
4743.286974	46.0	1000.0	1000.000	150.0	V	155.0	-0.9	28.0	74.0

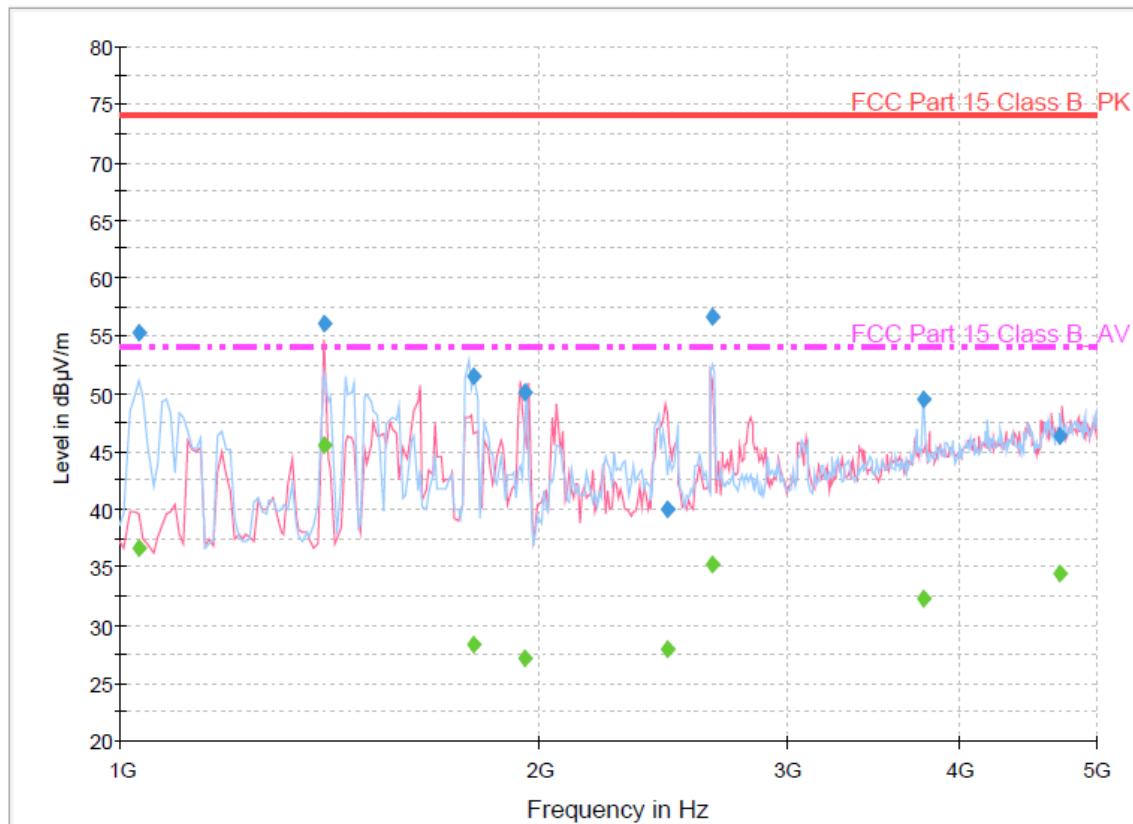
Final Result 2

Frequency (MHz)	CAverage (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
1029.864128	33.0	1000.0	1000.000	115.0	H	3.0	-14.2	21.0	54.0
1465.129860	28.1	1000.0	1000.000	165.0	H	340.0	-12.7	25.9	54.0
1641.050501	28.3	1000.0	1000.000	100.0	V	336.0	-12.2	25.7	54.0
1947.691784	29.2	1000.0	1000.000	100.0	V	331.0	-11.4	24.8	54.0
2287.965130	28.6	1000.0	1000.000	100.0	H	310.0	-9.7	25.4	54.0
2661.118637	38.4	1000.0	1000.000	145.0	H	-2.0	-7.8	15.6	54.0
4205.860922	32.2	1000.0	1000.000	186.0	H	53.0	-2.1	21.8	54.0
4743.286974	33.9	1000.0	1000.000	150.0	V	155.0	-0.9	20.1	54.0

< Fig 16. Radiated emission result (1 000 MHz ~ 5 000 MHz) >



- ◆ Operating condition: Monitor with adapter #1, 1 920 × 1 080 / 60 Hz(HDMI/DVI: Digital)
Green marker: Average detector, Blue marker: 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)
1032.264128	55.3	1000.0	1000.000	116.0	H	3.0	-14.2	18.7	74.0
1401.401603	56.1	1000.0	1000.000	150.0	V	17.0	-12.8	17.9	74.0
1791.355110	51.5	1000.0	1000.000	100.0	H	29.0	-11.6	22.5	74.0
1951.675752	50.0	1000.0	1000.000	150.0	V	331.0	-11.4	24.0	74.0
2463.917836	40.0	1000.0	1000.000	100.0	V	126.0	-8.7	34.0	74.0
2653.918637	56.6	1000.0	1000.000	150.0	H	34.0	-7.8	17.4	74.0
3761.731062	49.6	1000.0	1000.000	115.0	H	301.0	-3.5	24.4	74.0
4703.254910	46.4	1000.0	1000.000	126.0	V	226.0	-1.0	27.6	74.0

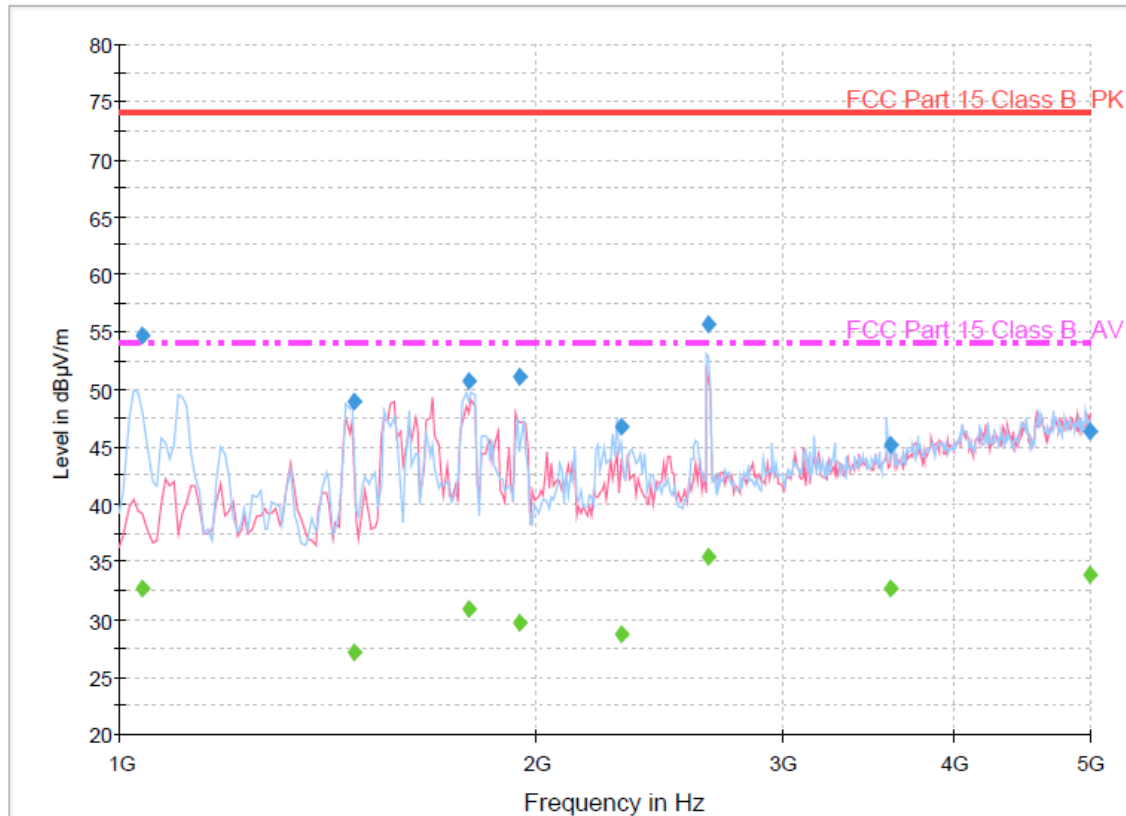
Final Result 2

Frequency (MHz)	CAverage (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
1032.264128	36.6	1000.0	1000.000	116.0	H	3.0	-14.2	17.4	54.0
1401.401603	45.4	1000.0	1000.000	150.0	V	17.0	-12.8	8.6	54.0
1791.355110	28.3	1000.0	1000.000	100.0	H	29.0	-11.6	25.7	54.0
1951.675752	27.1	1000.0	1000.000	150.0	V	331.0	-11.4	26.9	54.0
2463.917836	27.9	1000.0	1000.000	100.0	V	126.0	-8.7	26.1	54.0
2653.918637	35.3	1000.0	1000.000	150.0	H	34.0	-7.8	18.7	54.0
3761.731062	32.2	1000.0	1000.000	115.0	H	301.0	-3.5	21.8	54.0
4703.254910	34.5	1000.0	1000.000	126.0	V	226.0	-1.0	19.5	54.0

< Fig 17. Radiated emission result (1 000 MHz ~ 5 000 MHz) >



- ◆ Operating condition: Monitor with adapter #2, 1 920 × 1 080 / 60 Hz(RGB: Analog)
Green marker: Average detector, Blue marker: 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)
1038.000000	54.6	1000.0	1000.000	165.0	H	9.0	-14.1	19.4	74.0
1476.345892	48.8	1000.0	1000.000	126.0	H	339.0	-12.6	25.2	74.0
1782.987174	50.6	1000.0	1000.000	100.0	H	304.0	-11.7	23.4	74.0
1941.659720	51.0	1000.0	1000.000	165.0	V	330.0	-11.5	23.0	74.0
2296.765130	46.6	1000.0	1000.000	100.0	H	304.0	-9.6	27.4	74.0
2659.102605	55.7	1000.0	1000.000	145.0	H	-2.0	-7.8	18.3	74.0
3594.546293	45.2	1000.0	1000.000	100.0	H	294.0	-4.2	28.8	74.0
4991.335872	46.3	1000.0	1000.000	150.0	H	31.0	-0.3	27.7	74.0

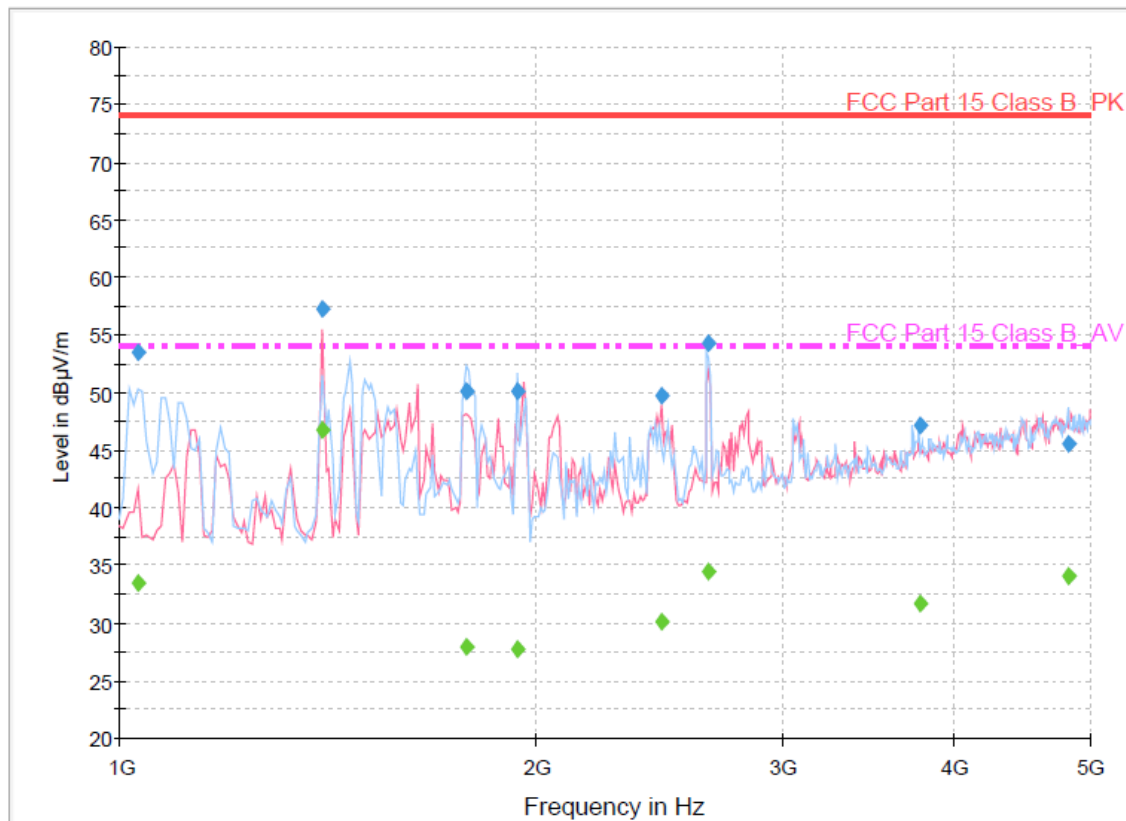
Final Result 2

Frequency (MHz)	CAverage (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
1038.000000	32.8	1000.0	1000.000	165.0	H	9.0	-14.1	21.2	54.0
1476.345892	27.1	1000.0	1000.000	126.0	H	339.0	-12.6	26.9	54.0
1782.987174	30.9	1000.0	1000.000	100.0	H	304.0	-11.7	23.1	54.0
1941.659720	29.8	1000.0	1000.000	165.0	V	330.0	-11.5	24.2	54.0
2296.765130	28.7	1000.0	1000.000	100.0	H	304.0	-9.6	25.3	54.0
2659.102605	35.5	1000.0	1000.000	145.0	H	-2.0	-7.8	18.5	54.0
3594.546293	32.6	1000.0	1000.000	100.0	H	294.0	-4.2	21.4	54.0
4991.335872	33.9	1000.0	1000.000	150.0	H	31.0	-0.3	20.1	54.0

< Fig 18. Radiated emission result (1 000 MHz ~ 5 000 MHz) >



- ◆ Operating condition: Monitor with adapter #2, 1 920 × 1 080 / 60 Hz(HDMI/DVI: Digital)
Green marker: Average detector, Blue marker: 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)
1032.800000	53.4	1000.0	1000.000	165.0	H	-12.0	-14.2	20.6	74.0
1401.401603	57.2	1000.0	1000.000	217.0	V	40.0	-12.8	16.8	74.0
1782.555110	50.1	1000.0	1000.000	100.0	H	348.0	-11.7	23.9	74.0
1934.075752	50.1	1000.0	1000.000	100.0	H	306.0	-11.5	23.9	74.0
2459.117836	49.7	1000.0	1000.000	227.0	V	-7.0	-8.8	24.3	74.0
2659.902605	54.3	1000.0	1000.000	100.0	H	-2.0	-7.8	19.7	74.0
3773.731062	47.1	1000.0	1000.000	136.0	H	300.0	-3.4	26.9	74.0
4831.847295	45.6	1000.0	1000.000	115.0	H	98.0	-0.7	28.4	74.0

Final Result 2

Frequency (MHz)	CAverage (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
1032.800000	33.4	1000.0	1000.000	165.0	H	-12.0	-14.2	20.6	54.0
1401.401603	46.8	1000.0	1000.000	217.0	V	40.0	-12.8	7.2	54.0
1782.555110	27.8	1000.0	1000.000	100.0	H	348.0	-11.7	26.2	54.0
1934.075752	27.6	1000.0	1000.000	100.0	H	306.0	-11.5	26.4	54.0
2459.117836	30.1	1000.0	1000.000	227.0	V	-7.0	-8.8	23.9	54.0
2659.902605	34.5	1000.0	1000.000	100.0	H	-2.0	-7.8	19.5	54.0
3773.731062	31.7	1000.0	1000.000	136.0	H	300.0	-3.4	22.3	54.0
4831.847295	34.0	1000.0	1000.000	115.0	H	98.0	-0.7	20.0	54.0

< Fig 19. Radiated emission result (1 000 MHz ~ 5 000 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. LED LCD TV/Monitor (Model Name: DM2752D)** was complies with §15.107 and 15.109 of the FCC Rules.

- The end -