

FCC EVALUATION REPORT FOR CERTIFICATION

Manufacturer: LG Electronics Inc. - DID DIVISION

Date of Issue : August 4, 2004

642, Jinpyoung-dong, Gumi-city,

Test Report No. : GETEC-E3-04-033

Gyeongsangbuk-do, Korea

Test Site: Gumi College EMC Center

Attn: Mr. Yeong Hur, EMC & SAFETY Manager

FCC ID

BEJT17LC10D

APPLICANT

LG Electronics Inc.

Rule Part(s)

: FCC Part 15 Subpart B / ICES-003

Equipment Class

: Class B computing device peripheral

EUT Type

: 17" LCD TV/Monitor

Model No.

: SD-P7000

Trade name

: TOSHIBA

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 C63.4-1992 / Canada 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 vest 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,

Jeffrey, Chief Engineer **GUMI College EMC center** Tae-Sig Park, Technical Manager

GUMI College EMC center

CONTENTS

1 CCOPE	2
1. SCOPE	
2. INTRODUCTION	
3. TEST CONDITIONS & EUT INFORMATION	
3.1 DESCRIPTION OF EUT	
3.2 SUPPORT EQUIPMENT USED	
4. DESCRIPTION OF TESTS	
4.1 CONDUCTED EMISSION	
4.2 RADIATED EMISSION	
5. CONDUCTED EMISSION	
5.1 OPERATING ENVIRONMENT	9
5.2 TEST SET-UP	9
5.3 MEASUREMENT UNCERTAINTY	9
5.4 Limit	10
5.5 TEST EQUIPMENT USED	10
5.6 TEST DATA FOR POWER LINE CONDUCTED EMISSION	11
6. RADIATED EMISSION	13
6.1 OPERATING ENVIRONMENT	13
6.2 Test set-up.	
6.3 MEASUREMENT UNCERTAINTY	
6.4 LIMIT	
6.5 TEST EQUIPMENT USED	
6.6 TEST DATA FOR RADIATED EMISSION	
7. SAMPLE CALCULATIONS	
7.1 EXAMPLE 1:	
7.2 EXAMPLE 2:	
8. RECOMMENDATION & CONCLUSION	
APPENDIX A – ATTESTATION STATEMENT	1/
APPENDIX A – AT TESTATION STATEMENT APPENDIX B – PLOTS OF CONDUCTED EMISSIONS	
APPENDIX C – ID SAMPLE LABEL & LOCATION	
APPENDIX C - ID SAMPLE LABEL & LOCATION APPENDIX D - BLOCK DIAGRAM	
APPENDIX E - TEST SET-UP PHOTOGRAPHS APPENDIX E - EXTERNAL PHOTOGRAPHS	
APPENDIX F - EXTERNAL PHOTOGRAPHS	
APPENDIX G -INTERNAL PHOTOGRAPHS (I)	
APPENDIX H –INTERNAL PHOTOGRAPHS (II)	
APPENDIX I – USER'S MANUAL	

1. 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.

Responsible Party: LG Electronics Inc.

Contact Person: Mr. Yeong Hur, EMC & SAFETY Manager

Product Engineering Dept., Safety & EMC Team

Digital Information Display Division

Manufacturer: 642, Jinpyoung-dong, Gumi-city, Gyeongsangbuk-do, Korea

Tel No.: +82-54-470-2933

• FCC ID BEJT17LC10D

• EUT Type 17" LCD Monitor

• Model No. SD-P7000

• Trade Name TOSHIBA

• Rule Part(s) FCC Part 15 Subpart B

• Test Procedure(s) ANSI C63.4 (1992) / Canada standard ICES-003

● **Dates of Test** July 26 ~ 28, 2004

Place of Test
 Gumi College EMC Center

• Test Report No. GETET-E3-04-033

EUT Type: 17" LCD Monitor

FCC ID: BEJT17LC10D Page 3 of 17

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 9kHz to 40GHz (ASNI C63.4-1992) was used in determining radiated and conducted emissions emanating from **LG Electronics Inc. 17" LCD Monitor(Model No.: SD-P7000)**

These measurement tests were conducted at Gumi College EMC Center.

The site address is 407, Bugok-Dong, Gumi-City, Gyeongsangbuk-Do, Korea

This test site is one of the highest point of Gumi 1 college at about 200 kilometers away from Seoul city and 40 kilometers away from Daege 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 on October 19, 1992



GUMI COLLEGE EMC CENTER

407,Bugok-Dong, Gumi-City, Gyeongsangbuk-Do 730-711, Korea

Page 4 of 17

Tel: +82-54-440-1195 Fax: +82-54-440-1199

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

EUT Type: 17" LCD Monitor

FCC ID: BEJT17LC10D

3. Test Conditions & EUT Information

3.1 Description of EUT

The Equipment Under Test (EUT) is the LG Electronics Inc. 17" LCD TV/Monitor (Model No.: SD-P7000)

FCC ID: BEJT17LC10D

Maximum Resolution(s) 1280×768 Non-interlaced @ 60Hz

Test pattern PC Mode: Scrolling "H"s, Winamp player

The verification report for TV & DVD mode would be issued by LG Electronics Inc.

LCD Panel LC171W03 (LG PHILIPS LCD Inc.)

DVD Player DVS-810 (DVS KOREA Co., Ltd.)

TV Tuner TAEW-G501P (LG Innotek Co., Ltd.)

Power Cord 1.8m Unshielded AC power cord

Cable(s) 1.8m power cable

Connected to the EUT

1.9m D-sub cable

Connected to the EUT and PC

1.5m S-VHS cable

Connected to the EUT and DVD player

1.9m PC sound input cable

Connected to the EUT and PC

2.9m Component cable

Connected to the EUT and DVD player

1.5m Component sound input cable

Connected to the EUT and DVD player

10m Coaxial ANT cable

Connected to the EUT and TV signal generator

2.9m AV input cable

Open

1.5m External sound input cable

Open

2.85m Head phone cable

Connected to the EUT

EUT Type: 17" LCD Monitor

FCC ID: BEJT17LC10D Page 5 of 17

3.2 Support Equipment used

PC	COMPAQ PD1075	Connected to the EUT and
	S/N: 7041JC8F0245	Peripheral equipments

FCC ID: DoC

Video card ATI Radeon VE Connected to the EUT

S/N: 6001833 FCC ID: DoC

Printer H.P Deskjet 970cxi Connected to the parallel

S/N: MY9B01F1FG port of PC

FCC ID: DoC

DVD Player PIONEER DV525 Connected to the EUT

S/N: UEYD0R390LL

FCC ID: DoC

Serial Mouse Microsoft 61402 Connected to the serial

S/N: 00696998 port of PC

FCC ID: C3KKS3

PS/2 Key-board COMPAQ 166516-AD6 Connected to the PS/2

S/N: B13BBOR39I006D port of PC

FCC ID: AQ6-23K15

Joystick Microsoft X05-92626 Connected to the USB

S/N: 9262600296169 port of PC

FCC ID: DoC

Head phone GOWOONSORI GW-500M Connected to the EUT

FCC ID: DoC

TV signal generator FLUKE 54200 Connected to the EUT

S/N: 831011 FCC ID: DoC

See "Appendix E – Test Setup Photographs" for actual system test set-up

EUT Type: 17" LCD Monitor

FCC ID: BEJT17LC10D Page 6 of 17

4. Description of tests

4.1 Conducted Emission

The Line conducted emission test facility is inside a 4×8×2.5 meter shielded enclosure.

The EUT was placed on a non-conducting 1.0 by 1.5 meter table, which is 0.8 meters in height and 0.4 meters 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 150kHz to 30MHz with 20msec 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 9KHz. 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 30-40 centi-meters.

PC: The worst operating condition of the test sample was found out by varying operating mode.

And, the test 4 modes (1280*768/60Hz, 1024*768/60Hz, 800*600/60Hz, 640*480/60Hz) and configuration were noted in the test report and the photographs were attached.

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

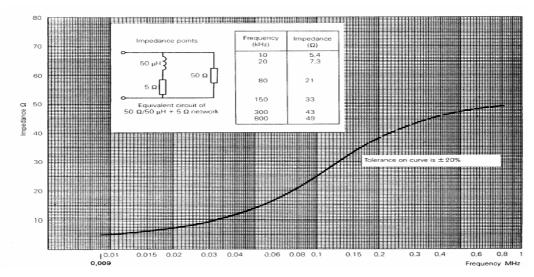


Fig 2. Impedance of LISN

EUT Type: 17" LCD Monitor

FCC ID: BEJT17LC10D

Page 7 of 17

4.2 Radiated Emission

Preliminary measurements were conducted 3m 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.

The spectrum was scanned from 30 to 1000MHz using bicornical log antenna (Schwarzbeck, VULB9160). Above 1GHz, horn antenna (Schwarzbeck, BBHA9120D) was used.

Final measurements were made outdoors at 10m-test range using bicornical antenna (R&S, HK116), log-periodic antenna (R&S, HL223) and horn antenna (Schwarzbeck, BBHA9120D)

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 120KHz 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 0.8m high non-metallic 1.0×1.5 meter 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 emission was maximized by: varying the mode of operation or resolution; clock or data exchange speed; scrolling "H" pattern to the EUT and / or support equipment and powering the monitor from mounted outlet box, if applicable; and changing the polarity of the antenna whichever determined the worst case emission.

The worst-case test mode (1280*768/60Hz) and configuration were noted in the test report and the photographs were attached.

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

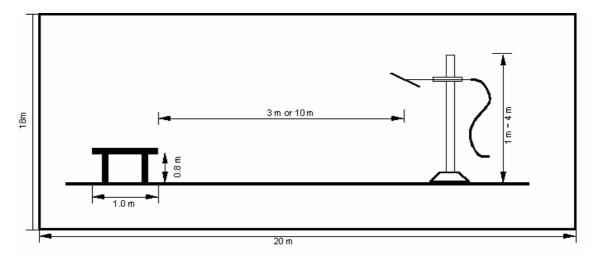


Fig 3. Dimensions of Open Site Test Area

EUT Type: 17" LCD Monitor

FCC ID: BEJT17LC10D Page 8 of 17

5. Conducted Emission

5.1 Operating environment

Temperature : 27° C Relative humidity : 66° %

5.2 Test set-up

The conducted emission measurements were performed in the shielded room.

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

Contribution	Probability	Uncer	tainty (±dB)
Contribution	Distribution	Power Port	Communication port
Receiver specification	Rectangular	1.00	1.00
LISN coupling specification	Rectangular	1.50	
ISN coupling specification	Rectangular		1.50
Mismatch			
LISN VRC : Γ l= 0.20	U-shaped	0.05	0.05
ISN VRC : Γ 1= 0.20		-0.05	-0.05
ATT VRC(IN) : Γ g= 0.03			
Uncertainty limits 20log(1± □1 □g)			
Mismatch			
Receiver VRC : Γ l= 0.09	U-shaped	0.09	0.09
ATT VRC : Γ g= 0.11		-0.09	-0.09
Uncertainty limits $20\log(1\pm \Gamma 1 \Gamma g)$			
System repeatability	Std Deviation	0.09	0.09
Cable and input attenuator calibration	Normal (k=2)	0.50	0.50
Repeatability of EUT			
Combined standard uncertainty Uc(y)	Normal	1.16	1.16
		-1.16	-1.16
Extended uncertainty U	Normal (k=2)	2.32	2.32
		-2.32	-2.32

EUT Type: 17" LCD Monitor

FCC ID: BEJT17LC10D

Page 9 of 17

5.4 Limit

RFI Conducted	FCC Limit(dB) Class B			
Freq. Range	Quasi-Peak	Average		
150kHz – 0.5MHz	66 – 56*	56 – 46*		
0.5MHz – 5MHz	56	46		
5MHz – 30MHz	60	50		

^{*}Limits decreases linearly with the logarithm of frequency.

5.5 Test equipment used

	Model Number	Manufacturer	Description	Serial Number	Calibrated Date
■ -	ESCS30	Rohde & Schwarz	EMI test receiver	839809/003	12. 17. 2003
■ -	ESH3-Z5	Rohde & Schwarz	Artificial mains network	838979/020	12. 17. 2003
■ -	ESH2-Z5	Rohde & Schwarz	Artificial mains network	829991/009	12. 17. 2003

EUT Type: 17" LCD Monitor

FCC ID: BEJT17LC10D Page 10 of 17

5.6 Test data for power line conducted emission

-. Test Date : July 26, 2004

-. Resolution bandwidth : 9kHz

-. Frequency range $: 0.15MHz \sim 30MHz$

◆ Test resolution: 1280*768/60Hz

Frequency		Quasi-Pea	ak (dBuV)	Margin	Average (dBuV)		Margin
(MHz)	Line	Emission level	limits	(dB)	Emission level	limits	(dB)
0.19	Н	47.19	64.04	16.85	39.59	54.04	14.45
0.674	Н	37.60	56.00	18.40	31.70	46.00	14.30
0.895	Н	32.85	56.00	23.15	31.55	46.00	14.45
1.19	N	44.85	56.00	11.15	42.85	46.00	3.15
1.41	Н	38.19	56.00	17.81	36.29	46.00	9.71
1.985	Н	34.70	56.00	21.30	31.10	46.00	14.90

◆ Test resolution: 1024*768/60Hz

Frequency		Quasi-Pea	ak (dBuV)	Margin	Average (dBuV)		Margin
(MHz)	Line	Emission level	limits	(dB)	Emission level	limits	(dB)
0.19	N	47.70	64.04	16.34	39.00	54.04	15.04
0.255	Н	42.48	61.59	19.11	33.98	51.59	17.61
0.32	N	35.87	59.71	23.84	29.97	49.71	19.74
0.4	Н	31.00	57.85	26.85	30.20	47.85	17.65
0.895	Н	33.55	56.00	22.45	31.45	46.00	14.55
1.375	N	35.85	56.00	20.16	35.35	46.00	10.66
1.64	N	36.33	56.00	19.67	33.63	46.00	12.37
2.15	N	40.78	56.00	15.22	18.48	46.00	27.52
2.885	N	37.67	56.00	18.33	34.07	46.00	11.93
4.52	Н	33.60	56.00	22.40	33.00	46.00	13.00
5.57	Н	34.37	60.00	25.63	33.07	50.00	16.93
24.96	N	30.35	60.00	29.65	30.45	50.00	19.55

EUT Type: 17" LCD Monitor

FCC ID: BEJT17LC10D Page 11 of 17

◆ Test resolution: 800*600/60Hz

Frequency		Quasi-Pea	ak (dBuV)	Margin	Average (dBuV)		Margin
(MHz)	Line	Emission Level	limits	(dB)	Emission level	limits	(dB)
0.195	Н	47.28	63.82	16.54	38.48	53.82	15.34
0.385	N	33.05	58.17	25.12	29.95	48.17	18.22
0.895	N	32.84	56.00	23.16	31.24	46.00	14.76
1.185	N	32.95	56.00	23.05	32.85	46.00	13.15
1.38	Н	35.39	56.00	20.61	34.69	46.00	11.31
1.645	Н	34.10	56.00	21.90	33.40	46.00	12.60
2.43	Н	35.53	56.00	20.47	33.73	46.00	12.67
2.885	N	38.47	56.00	17.53	36.57	46.00	9.43
4.205	Н	36.79	56.00	19.21	36.39	46.00	9.61
4.31	N	37.05	56.00	18.95	36.45	46.00	9.55
5.57	Н	32.77	60.00	27.23	33.17	50.00	16.83
24.96	Н	32.07	60.00	27.93.	32.07	50.00	17.93

◆ Test resolution: 640*480/60Hz

Frequency		Quasi-Pea	ak (dBuV)	Margin	Average (dBuV)		Margin
(MHz)	Line	Emission Level	limits	(dB)	Emission Level	limits	(dB)
0.325	N	32.77	59.58	26.81	30.67	49.58	18.91
0.895	N	32.64	56.00	23.36	30.94	46.00	15.06
1.185	Н	32.99	56.00	23.01	31.29	46.00	14.71
1.38	N	36.04	56.00	19.96	35.34	46.00	10.66
2.17	Н	33.81	56.00	22.19	32.01	46.00	13.99
2.89	N	37.47	56.00	18.53	34.97	46.00	11.03
3.15	N	37.54	56.00	18.46	34.64	46.00	11.36
4.205	Н	36.89	56.00	19.11	36.29	46.00	9.71
4.52	N	32.95	56.00	23.05	33.55	46.00	12.45
5.57	Н	32.47	60.00	27.53	32.77	50.00	17.23
9.77	N	31.22	60.00	28.78	30.12	50.00	19.88

EUT Type: 17" LCD Monitor FCC ID: BEJT17LC10D

6. Radiated Emission

6.1 Operating environment

Temperature : 36° C Relative humidity : 49° %

6.2 Test set-up

A preliminary scan with peak mode was performed in the semi anechoic chamber and found frequency for open area test site.

The formal radiated emission was measured at 3m-distance open area test site.

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

The turntable with EUT was rotated 360°, and the antenna was varied in height between 1.0 and 4.0 meters 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%.

	Probability		Uncerta	Uncertainty (dB)		
Contribution	Distribution	Biconic	cal Ant.	Log-peri	odic Ant.	
		3m	10m	3m	10m	
Ambient signal						
Antenna factor calibration	Normal (k=2)	1.00	1.00	1.00	1.00	
Receiver specification	Rectangular	1.00	1.00	1.00	1.00	
Antenna directivity	Rectangular	0.50	0.00	3.00	0.50	
Antenna phase center variation	Rectangular	0.00	0.00	1.00	0.20	
Antenna factor frequency interpolation	Rectangular	0.25	0.25	0.25	0.25	
Measure distance variation	Rectangular	0.60	0.40	0.60	0.40	
Site imperfections	Rectangular	2.83	-2.94	-1.96	-2.96	
Mismatch						
Receiver VRC : Γl= 0.09	U-shaped	0.33	0.33	0.33	0.33	
Antenna VRC : Γg= 0.43 (Bi) 0.23 (Lp)		-0.35	-0.35	-0.18	-0.18	
Uncertainty limits 20log(1± Γl Γg)						
System repeatability	Std Deviation	0.07	0.05	0.06	0.10	
Cable loss calibration	Normal (k=2)	0.20	0.20	0.20	0.20	
Combined standard uncertainty Uc(y)	Normal	1.88	1.90	2.33	1.94	
		-1.88	-1.90	-2.32	-1.93	
Extended uncertainty U	Normal (k=2)	3.77	3.80	4.65	3.87	
		-3.77	-3.80	-4.63	-3.85	

EUT Type: 17" LCD Monitor

FCC ID: BEJT17LC10D Page 13 of 17

6.4 Limit

Frequency (MHz)	FCC Limit @ 3m. Quasi-Peak dB (μV/m)	FCC Limit @ 10m. Quasi-Peak dB (μV/m)	CISPR Limit @ 10m. Quasi-Peak dB (μV/m)			
30 – 88	40.0	29.5	30.0			
88 – 216	43.5	33.0	30.0			
216 – 230	46.0	35.6	30.0			
230 – 960	46.0	35.6	37.0			
960 – 1000	54.0	43.5	37.0			
> 1000	54.0	43.5	No Specified limit			
*Limit extrapolated 20dB / decade						

6.5 Test equipment used

	Model Number	Manufacturer	Description	Serial Number	Calibrated Date
■ -	ESI	Rohde & Schwarz	EMI test receiver	830482/010	12. 17. 2003
■ -	ESCS30	Rohde & Schwarz	EMI test receiver	839809/003	12. 17. 2003
■ -	HK116	Rohde & Schwarz	Biconical antenna	826861/018	11. 21. 2003
■ -	HL223	Rohde & Schwarz	Log-periodic antenna	829228/011	11. 21. 2003
■ -	BBHA9120D	Schwarzbeck	horn antenna	207	11. 21. 2003
■ -	HD100	HD GmbH	Position Controller	100/692/01	NCR
■ -	DS415S	HD GmbH	Turntable	415/657/01	NCR
■ -	MA240	HD GmbH	Antenna Mast	240/565/01	NCR

EUT Type: 17" LCD Monitor FCC ID: BEJT17LC10D

FCC Class B CERTIFICATION

6.6 Test data for radiated emission

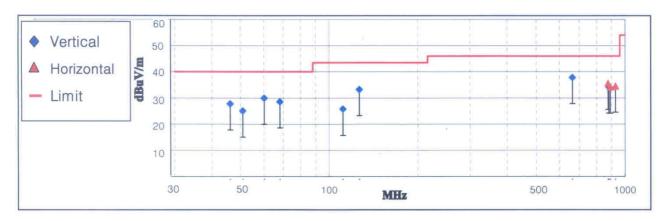
-. Test Date : July 26, 2004-. Resolution bandwidth : 120kHz

Frequency range : 30MHz ~ 1000MHz
 Detector mode : Quasi-peak detector mode

◆ Test resolution: 1280*768/60Hz

Frequency (MHz)	Reading (dBuV)	Ant. Pol. (H/V)	Ant. Factor(dB/m)	Cable Loss	Emission Level(dBuV/m)	Limits (dBuV/m)	Margin (dB)
46.2	16.3	V	9.50	1.92	27.7	40.0	12.3
50.95	14.2	V	8.82	2.01	25.0	40.0	15.0
60.18	20.1	V	7.71	2.10	29.9	40.0	10.1
68.1	18.5	V	7.82	2.18	28.5	40.0	11.5
111.42	13.7	V	9.20	2.81	25.7	43.5	17.8
126.66	19.7	V	10.42	3.12	33.2	43.5	10.3
662.82	10.7	V	19.47	7.61	37.8	46.0	8.2
875.34	4.6	Н	22.01	8.95	35.6	46.0	10.4
879.9	3.1	V	22.11	8.98	34.2	46.0	11.8
890.88	2.7	Н	22.36	9.05	34.1	46.0	11.9
927.9	2.6	Н	22.60	9.29	34.5	46.0	11.5

Note: "H": Horizontal, "V": Vertical



< Fig 4. Radiated emission result >

EUT Type: 17" LCD Monitor

FCC ID: BEJT17LC10D Page 15 of 17

7. Sample Calculations

$$\begin{split} dB\mu V &= 20~Log_{~10}(\mu V/m)\\ dB\mu V &= dBm + 107\\ \mu V &= 10^{~(dB\mu V/20)} \end{split} \label{eq:dbmV}$$

7.1 Example 1:

■ 20.3 MHz

Class B Limit = $250 \mu V$ = $48 dB\mu V$

Reading = - 67.8 dBm(Calibrated level)

Convert to $dB\mu V$ = -67.8 dBm + 107 = 39.2 $dB\mu V$

 $10^{(39.2dB\mu V/20)}$ = 91.2 μV

Margin = 39.2 - 48 = -8.8

= 8.8 dB below Limit

7.2 Example 2:

■ 66.7 MHz

Class B Limit = $100 \mu V/m$ = $40.0 dB\mu V/m$

Reading = - 76.0 dBm(Calibrated level)

Convert to $dB\mu V/m$ = -67.8 dBm + 107 = 31.0 $dB\mu V/m$

Antenna Factor + Cable Loss = 5.8 dB

Total = $36.8 \, dB\mu V/m$

Margin = 36.8 - 40.0 = -3.2

= 3.2 dB below Limit

8. Recommendation & conclusion

The data collected shows that the **LG Electronics Inc. 17" LCD Monitor (Model No.: SD-P7000)** was complies with §15.107 and 15.109 of the FCC Rules / ICES-003.

The highest emission observed was at 1.19MHz for conducted emission with a margin of 3.15dB (1280*768/60Hz) 662.82MHz for radiated emissions with a margin of 8.2dB.

EUT Type: 17" LCD Monitor

FCC ID: BEJT17LC10D Page 17 of 17