

Application for FCC Certificate
On Behalf of
LG Electronics U.S.A Inc.

CRT Monitor

Model No.: C17PC-*

Serial No.: E06080404

FCC ID : BEJC17PC

Prepared For : LG Electronics U.S.A Inc.
2000 Millbrook Dr.Lincolnshire,
IL 60069 United States

Prepared By : Audix Technology (Shanghai) Co., Ltd.
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Report No. : ACI-F06035
Date of Test : Aug 04, 2006
Date of Report : Aug 11, 2006

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TEST REPORT FOR FCC CERTIFICATE

Applicant : LG Electronics U.S.A Inc.
Manufacturer : Nanjing LG-Tontru Color Display System Co., Ltd.
EUT Description : CRT Monitor
(A) Model No. : C17PC-
(B) Serial No. : E06080404
(C) Power Supply : 120V/60Hz

Test Procedure Used:

*FCC RULES AND REGULATIONS PART 15 SUBPART B CLASS B FEBRUARY 2006
AND ANSI C63.4-2003*

The device described above is tested by Audix Technology (Shanghai) Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart B (Class B) and ICES-003, Issue 4 February 2004 (CISPR 22:2002) limits both radiated and conducted emissions.

The test results are contained in this test report and Audix Technology (Shanghai) Co., Ltd. is assumed full responsibility for the accuracy and completeness of these measurements. This report shows that the EUT (M/N: C17PC-*; S/N: E06080404) which was tested in 3m anechoic chamber on Jul 28, 2006 is technically compliance with the FCC official limits also.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of Audix Technology (Shanghai) Co., Ltd.

This report contains data that are not covered by the NVLAP accreditation.

This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

Date of Test : Aug 04, 2006

Prepared By: Sarah Liu 2006.8.16
SARAH LIU/ Assistant

Reviewer: Sammy Chen 2006.08.16
SAMMY CHEN / Deputy Assistant Manager



For and on behalf of
Audix Technology (Shanghai) Co., Ltd.

Approved Signatory:

Sam Chien 2006.08.16
Authorized Signatory (Deputy Assistant Manager)

1 SUMMARY OF STANDARDS AND RESULTS

1.1 Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below:

Description / Test Item	Test Standard	Results	Meets Limit
EMISSION			
Conducted Disturbance At main terminal	FCC RULES AND REGULATIONS PART 15 SUBPART B FEBRUARY 2006 AND ANSI C63.4-2003	Pass	15.107 Class B
Radiated Disturbance	FCC RULES AND REGULATIONS PART 15 SUBPART B FEBRUARY 2006 AND ANSI C63.4-2003	Pass	15.109 Class B

2 GENERAL INFORMATION

2.1 Description of Equipment Under Test

Description : CRT Monitor

Type of EUT : ☒ Production ☐ Pre-product ☐ Pro-type

Model No. : C17PC-*

Serial No. : E06080404

Applicant : LG Electronics U.S.A Inc.
2000 Millbrook Dr.Lincolnshire,
IL 60069 United States

Manufacturer : Nanjing LG-Tontru Color Display System
Co., Ltd.
No.346, Yao Xin Road, Nanjing, China

D-Sub Cable : Shielded, Undetachable, 1.4m, with two cores

Power Cord : Unshielded, Detachable, 1.8m

Remark:

The EUT is a CRT Monitor which input/output ports as follows:

- (1) One Power Port
- (2) One D-Sub Input Port

2.2 Supported Simulators

2.2.1 PC

Manufacturer : HP

Model Number : dx6120MT

CPU : CNG53004J2

Power Cable : Unshielded, detachable ,1.8m

Certificate : FCC DoC, VCCI, CE/EMC
VCCI, C-Tick, CE/EMC
MIC, C-Tick(N119)

2.2.2 Keyboard

Manufacturer : Logitech

Model Number : KB-0133

Serial Number : 323686-AA1

Data Cable : Unshielded, Undetachable, 1.9m

Certification : FCC DoC, VCCI, CE/EMC
MIC, C-Tick(N119)

2.2.3 Mouse

Manufacturer : Logitech
Model Number : M-S69
Serial Number : 323614-001
Data Cable : Unshielded ,Undetachable, 1.85m.
Certification : FCC ID:JNZ21-1443, VCCI, CE-EMC,
MIC, C-Tick(N231)

2.2.4 Printer

Manufacturer : HP
Model Number : C3990A
Serial Number : JPZX020487
Data Cable : Unshielded, Detachable, 1.5m
Power Cord : Unshielded, Detachable, 1.8m
Certification : GS, CE/EMC, C-Tick, FCC DoC

2.2.5 Modem

Manufacturer : Aceex
Model Number : 1414
Serial Number : 980013576
Data Cable : Unshielded, Detachable, 1.8m
FCC ID : IFAXDM1414

2.3 Description of Test Facility

Site Description : Sept. 17, 1998 file on
August 15, 2003 Renewed
(Semi-Anechoic Chamber) Federal Communications Commission
FCC Engineering Laboratory
7435 Oakland Mills Road
Columbia, MD 21046, USA
Name of Firm : Audix Technology (Shanghai) Co., Ltd.
Site Location : 3F 34Bldg 680 Guiping Rd,
Caohejing Hi-Tech Park,
Shanghai, China 200233.
FCC registration Number : 91789
Accredited by NVLAP, Lab Code : 200371-0

2.4 Measurement Uncertainty

Conducted Emission Expanded Uncertainty: U = 1.84dB
Radiated Emission Expanded Uncertainty : U = 2.96dB

3 CONDUCTED EMISSION TEST

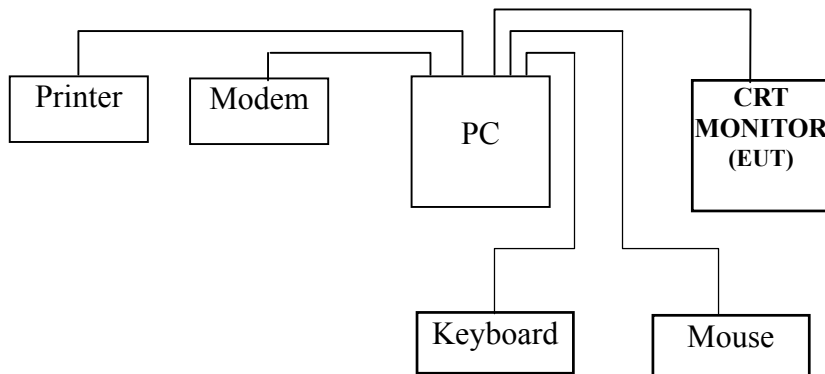
3.1 Test Equipment

The following test equipment are used during the conducted emission test in a shielded room:

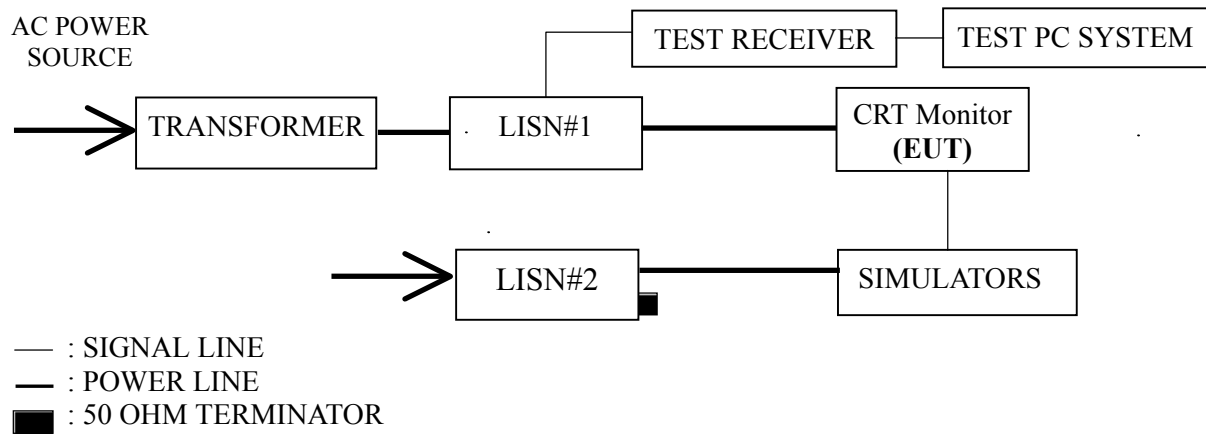
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Test Receiver	R&S	ESHS10	830223/007	Apr 08, 2006	Apr 08, 2007
2.	Line Impedance Stabilization Network (LISN#1)	Kyoritsu	KNW-407	8-1280-4	Apr 12, 2006	Apr 12, 2007
3.	Line Impedance Stabilization Network (LISN#2)	Kyoritsu	KNW-407	8-1280-5	Apr 13, 2006	Apr 13, 2007
4.	50Ω Coaxial Switch	ANRITSU	MP59B	6200426389	Mar 18, 2006	Sep 18, 2006
5.	50Ω Terminator	Anritsu	BNC	001	Apr 11, 2006	Apr 11, 2007
6.	Software	Audix	E3	SET00200 9804M592	--	--

3.2 Block Diagram of Test Setup

3.2.1 EUT & Supported Simulators



3.2.2 Conducted Disturbance Test Setup



3.3 Conducted Emission Limit

Frequency Range (MHz)	Limits dB (μ V)	
	Quasi-peak	Average
0.15 ~ 0.5	66~56	56~46
0.5 ~ 5	56	46
5 ~ 30	60	50
NOTE 1 – The lower limit shall apply at the transition frequencies. NOTE 2 – The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz~0.50 MHz NOTE 3 – If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with the average detector is unnecessary.		

3.4 Test Configuration

The EUT (listed in Sec.2.1) and the simulators (listed in Sec 2.2) were installed as shown on Sec.3.2 to meet FCC requirement and operating in a manner that tends to maximize its emission level in a normal application.

3.5 Operating Condition of EUT

- 3.5.1 Setup the EUT and simulators as shown in Sec. 3.2
- 3.5.2 Turn on the power of all equipment and the EUT.
- 3.5.3 Set the contrast control to maximum.
- 3.5.4 Set the brightness control to maximum or at raster extinction if raster extinction occurs at less than maximum brightness.
- 3.5.5 For color monitors, use white letters on a black background to represent all color.
- 3.5.6 Select the worse case of positive or negative video if both alternatives are available.
- 3.5.7 Set character size and number of characters per line so that typically the greatest number of characters per screen is displayed.
- 3.5.8 For monitors with graphics capabilities, a pattern consisting of all scrolling Hs should be displayed. For monitors with text only capability, a pattern consisting of random text shall be displayed. If neither of the above is applied, use a typical display.
- 3.5.9 Set the EUT on the test modes in turn, and then test it.
- 3.5.10 The test modes are as follows:

VGA	VGA	VGA
800*600@85Hz	1024*768@85Hz	1280*1024@60Hz

3.6 Test Procedures

The EUT was connected to the power mains through a Line Impedance Stabilization Network (LISN). This provided a 50 ohm coupling impedance for the measuring equipment.

Both sides of AC line (VA & VB) were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables were changed or manipulated according to ANSI C63.4:2003 during conducted emission test.

The bandwidth of Test Receiver ESHS10 was set at 10 kHz.

The frequency range from 150 kHz to 30 MHz was checked.

The test modes were done on conducted disturbance test and all the test results are listed in Sec. 3.7.

3.7 Test Results

< PASS >

The frequency and amplitude of the highest conducted emission relative to the limit is reported. All emissions not reported below are too low against the prescribed limits.

Test Mode	Data Page
VGA 800*600@85Hz	P11
VGA 1024*768@85Hz	P12
VGA 1280*1024@60Hz	P13

NOTE 1 - Factor = Cable Loss + LISN Factor.

NOTE 2 - Emission Level = Meter Reading + Factor.

NOTE 3 - All readings are “Quasi-Peak” values.

NOTE 4 - The worst case is for VGA 1280*1024@60Hz mode. The worst emission is detected at 0.19 MHz with corrected signal level of 51.56 (μV) (limit is 63.98 dB (μV)), when the VA of the EUT is connected to LISN.

EUT : CRT Monitor Temperature : 28°C

Model No. : C17PC-* Humidity : 60%

Serial No. : E06080404 Date of Test : Aug 04, 2006

Test Mode : VGA 800*600@85Hz

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)
VA	0.15	51.99	1.01	53.00	66.00	13.00
	0.26	43.43	0.58	44.01	61.29	17.28
	0.45	38.29	0.49	38.78	56.80	18.02
	1.47	36.50	0.37	36.87	56.00	19.13
	2.31	34.69	0.87	35.56	56.00	20.44
	11.68	40.05	0.42	40.47	60.00	19.53
VB	0.15	51.71	0.98	52.69	66.00	13.31
	0.45	37.44	0.38	37.82	56.80	18.98
	1.40	33.18	0.30	33.48	56.00	22.52
	2.42	34.66	1.01	35.67	56.00	20.33
	5.84	40.92	0.34	41.26	60.00	18.74
	11.68	41.04	0.49	41.53	60.00	18.47

TEST ENGINEER: Leo Xue
(LEO XUE)

EUT : CRT Monitor Temperature : 28°C

Model No. : C17PC-* Humidity : 60%

Serial No. : E06080404 Date of Test : Aug 04, 2006

Test Mode : VGA 1024*768@85Hz

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)
VA	0.19	46.82	0.79	47.61	63.98	16.37
	0.29	43.26	0.54	43.80	60.59	16.79
	0.68	37.21	0.40	37.61	56.00	18.39
	1.35	38.75	0.37	39.12	56.00	16.88
	2.27	37.37	0.81	38.18	56.00	17.82
	11.44	40.90	0.42	41.32	60.00	18.68
VB	0.19	46.81	0.77	47.58	63.89	16.31
	0.43	37.97	0.39	38.36	57.20	18.84
	1.40	34.29	0.30	34.59	56.00	21.41
	2.71	37.37	1.03	38.40	56.00	17.60
	5.39	41.66	0.33	41.99	60.00	18.01
	9.76	41.72	0.43	42.15	60.00	17.85

TEST ENGINEER: Leo Xue
(LEO XUE)

EUT : CRT Monitor Temperature : 28°C

Model No. : C17PC-* Humidity : 60%

Serial No. : E06080404 Date of Test : Aug 04, 2006

Test Mode : VGA 1280*1024@60Hz

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)
VA	0.19	50.77	0.79	51.56	63.98	12.42
	0.32	45.43	0.53	45.96	59.71	13.75
	0.64	39.41	0.42	39.83	56.00	16.17
	1.34	40.17	0.37	40.54	56.00	15.46
	2.55	39.26	1.13	40.39	56.00	15.61
	10.23	43.53	0.39	43.92	60.00	16.08
VB	0.19	50.23	0.78	51.01	64.02	13.01
	0.32	42.08	0.41	42.49	59.71	17.22
	1.40	38.68	0.30	38.98	56.00	17.02
	2.55	39.62	1.10	40.72	56.00	15.28
	5.62	45.02	0.33	45.35	60.00	14.65
	10.23	44.71	0.43	45.14	60.00	14.86

TEST ENGINEER: Leo Xue
(LEO XUE)

4 RADIATED EMISSION TEST

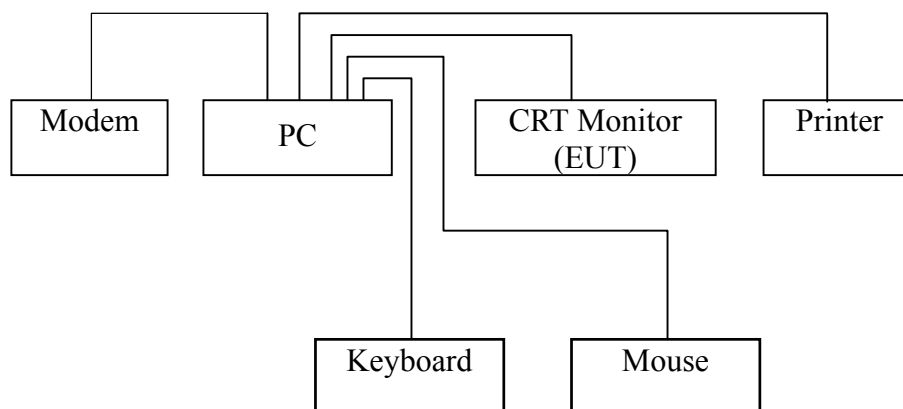
4.1 Test Equipment

The following test equipment are used during the radiated emission test in a semi-anechoic chamber:

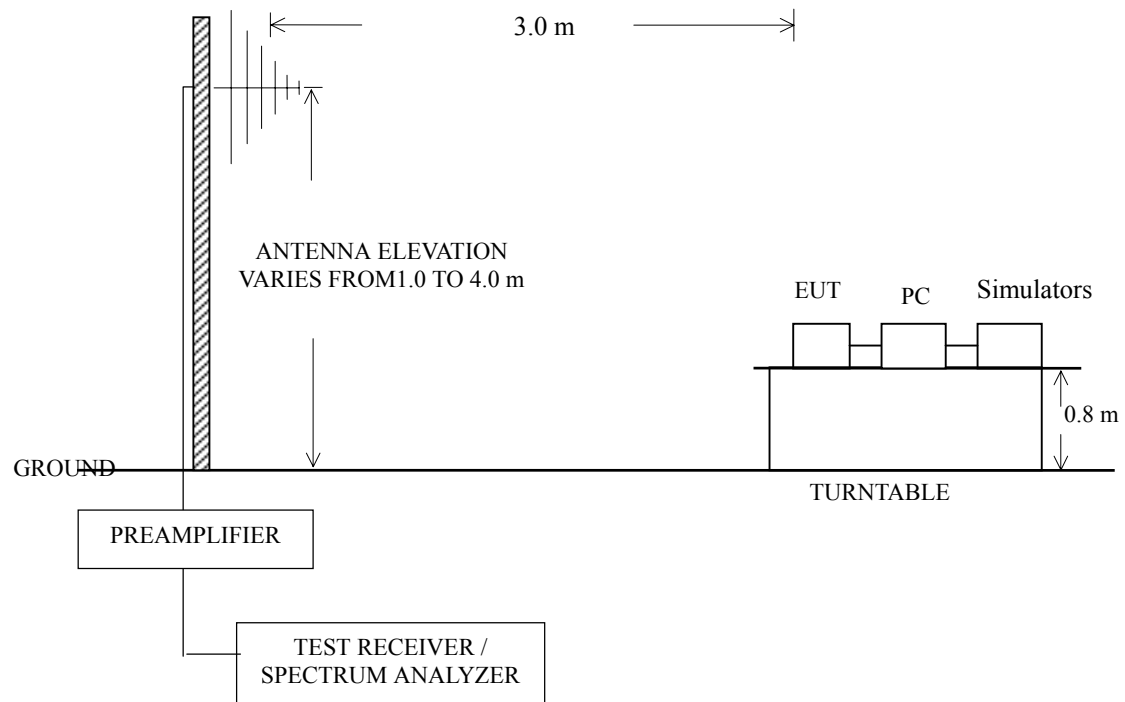
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	HP	8593EM	3628A00167	Apr 18, 2006	Apr 18, 2007
2.	Bilog Antenna	Chase	CBL6111	1146	Mar 18, 2006	Sep 18, 2006
3.	Test Receiver	R&S	ESVS10	832699/004	Apr 08, 2006	Apr 08, 2007
4.	Preamplifier	HP	8447D	2944A10548	Mar 19, 2006	Sep 19, 2006
5.	Preamplifier	HP	8449B	3008A00864	Apr 18, 2006	Apr 18, 2007
6.	Horn Antenna	EMCO	3115	9607-4878	Apr 18, 2006	Apr 18, 2007
7.	50 Ω Coaxial Switch	Anritsu	MP59B	6200426390	Mar 18, 2006	Sep 18, 2006
8.	Software	Audix	E3	SET00200 9912M295-2	--	--

4.2 Block Diagram of Test Setup

4.2.1 EUT and simulators



4.2.2 Radiated emission test setup



4.3 Radiated Emission Limit

Frequency (MHz)	Distance (m)	Field strength limits	
		($\mu\text{V/m}$)	dB ($\mu\text{V/m}$)
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
Above 960	3	500	54.0

NOTE 1 - Emission Level dB ($\mu\text{V/m}$) = 20 log Emission Level ($\mu\text{V/m}$)
 NOTE 2 - The tighter limit applies at the band edges.
 NOTE 3 - Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
 NOTE 4 - The limits shown are based on Quasi-peak value detector below or equal to 1GHz and Average value detector above 1GHz.

4.4 Test Configuration

The configuration of the EUT and simulators are same as those used in conducted emission test.

Please refer to Sec.3.4.

4.5 Operating Condition of EUT

Same as conducted emission test which is listed in Sec.3.5, except the test setup replaced by Sec.4.2.

4.6 Test Procedures

The EUT and simulators were placed on a turntable that is 0.8 meter above ground. The turntable rotated 360 degrees to determine the position of the maximum emission level. The EUT was set 3 meters away from the receiving antenna, which was mounted on an antenna tower. The antenna moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (Calibrated Bilog Antenna) or horn antenna was used as receiving antenna. Both horizontal and vertical polarizations of the antenna were set on measurement. In order to find the maximum emission, all of the interference cables were manipulated according to ANSI C63.4:2003 requirements during radiated emission test.

The bandwidth of Test Receiver R&S ESVS10 was set at 120 kHz.

The frequency range from 30 MHz to 1000 MHz was checked for all the test modes.

The frequency range from 1 GHz to 2 GHz was checked for VGA 1280*1024@60Hz modes. The bandwidth of the Spectrum 8593EM was set at 1MHz

The test modes were done on radiated disturbance test and all the test results are listed in Sec.4.7.

The test modes are as follows:

VGA	VGA	VGA
800*600@85Hz	1024*768@85Hz	1280*1024@60Hz

4.7 Test Results

<PASS>

The frequency and amplitude of the highest radiated emission relative the limit is reported. All the emissions not reported below are too low against the FCC limit.

Test Mode	Data Page
VGA 800*600@85Hz	P18
VGA 1024*768@85Hz	P19
VGA 1280*1024@60Hz	P20-P21

NOTE 1 - Emission Level = Meter Reading + Factor.

NOTE 2 - Factor = Antenna Factor + Cable Loss - Preamp Factor.

NOTE 3 - The readings that below 1000 MHz are Quasi-Peak values, above 1000 MHz are average values.

NOTE 4 - 0° was the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.

NOTE 5 - The worst case is for VGA 1280*1024@60Hz mode. The worst emission at horizontal polarization was detected at 567.38 MHz with corrected signal level of 44.43 dB (μV/m) (limit is 46.00 dB (μV/m)), when the antenna was 1.45 m height and the turntable was at 148°. The worst emission at vertical polarization was detected at 460.68 MHz with corrected signal level of 44.54 dB (μV/m) (limit is 46.00 dB (μV/m)), when the antenna was 1.35 m height and the turntable was at 330°.

NOTE 6 - The followings are the frequencies that the measured results are below the specification limit by a margin less than the measurement uncertainty, it is therefore not possible to state compliance base on the 95% level of confidence. However, the result indicates that compliance is more probable than non-compliance.

Test Mode	Antenna Polarization	Frequency (MHz)
VGA 800*600@85Hz	Horizontal	--
	Vertical	--
VGA 1024*768@85Hz	Horizontal	--
	Vertical	--
VGA 1280*1024@60Hz	Horizontal	460.68, 567.38
	Vertical	460.68

EUT : CRT Monitor Temperature : 22°C

Model No. : C17PC-* Humidity : 60%

Serial No. : E06080404 Date of Test : Aug 04, 2006

Test Mode : VGA 800*600@85Hz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)
Horizontal	62.98	44.83	7.20	1.41	28.05	25.39	40.00	14.61
	70.74	45.43	7.69	1.54	28.02	26.64	40.00	13.36
	193.93	43.73	12.16	2.45	27.54	30.80	43.50	12.70
	310.33	43.10	15.15	3.25	27.36	34.14	46.00	11.86
	470.38	41.55	19.39	4.02	28.52	36.44	46.00	9.56
Vertical	30.97	41.96	16.30	0.98	28.14	31.10	40.00	8.90
	51.34	46.80	8.08	1.18	28.08	27.98	40.00	12.02
	70.74	46.42	7.69	1.54	28.02	27.63	40.00	12.37
	101.78	43.93	10.15	1.74	27.99	27.83	43.50	15.67
	468.44	40.43	19.36	4.00	28.51	35.28	46.00	10.72
	783.69	35.78	22.95	5.34	28.42	35.65	46.00	10.35

TEST ENGINEER: Season Yang
(SEASON YANG)

EUT : CRT Monitor Temperature : 22°C

Model No. : C17PC-* Humidity : 60%

Serial No. : E06080404 Date of Test : Aug 04, 2006

Test Mode : VGA 1024*768@85Hz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)
Horizontal	148.34	41.11	10.78	2.12	27.78	26.23	43.50	17.27
	179.38	43.63	11.68	2.35	27.62	30.04	43.50	13.46
	196.84	45.46	12.24	2.47	27.53	32.64	43.50	10.86
	245.34	45.36	13.33	2.82	27.29	34.22	46.00	11.78
	310.33	46.33	15.15	3.25	27.36	37.37	46.00	8.63
	893.30	35.45	23.55	5.77	28.12	36.65	46.00	9.35
Vertical	36.79	43.66	13.42	1.05	28.12	30.01	40.00	9.99
	51.34	51.20	8.08	1.18	28.08	32.38	40.00	7.62
	99.84	46.34	10.03	1.72	28.00	30.09	43.50	13.41
	193.93	43.00	12.16	2.45	27.54	30.07	43.50	13.43
	470.38	41.33	19.39	4.02	28.52	36.22	46.00	9.78
	633.34	38.51	20.64	4.74	28.73	35.16	46.00	10.84

TEST ENGINEER: Season Yang
(SEASON YANG)

EUT : CRT Monitor Temperature : 22°C

Model No. : C17PC-* Humidity : 60%

Serial No. : E06080404 Date of Test : Aug 04, 2006

Test Mode : VGA 1280*1024@60Hz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)
Horizontal	67.83	47.03	7.60	1.49	28.03	28.09	40.00	11.91
	135.73	48.64	11.21	2.03	27.84	34.04	43.50	9.46
	191.99	54.18	12.09	2.44	27.55	41.16	43.50	2.34
	298.69	49.62	14.79	3.18	27.27	40.32	46.00	5.68
	460.68	48.69	19.17	3.98	28.46	43.38	46.00	2.62
	567.38	48.69	20.03	4.46	28.75	44.43	46.00	1.57
Vertical	30.00	46.88	16.88	0.97	28.14	36.59	40.00	3.41
	41.64	46.41	11.69	1.09	28.12	31.07	40.00	8.93
	109.54	49.77	10.66	1.81	27.95	34.29	43.50	9.21
	135.73	49.32	11.21	2.03	27.84	34.72	43.50	8.78
	191.99	48.49	12.09	2.44	27.55	35.47	43.50	8.03
	460.68	49.85	19.17	3.98	28.46	44.54	46.00	1.46

TEST ENGINEER: Season Yang
(SEASON YANG)

EUT : CRT Monitor Temperature : 22°C

Model No. : C17PC-* Humidity : 60%

Serial No. : E06080404 Date of Test : Aug 04, 2006

Test Mode : VGA 1280*1024@60Hz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	1097.00	45.13	24.57	6.89	37.43	39.16	74.00	34.84	AV
	1222.00	44.52	25.11	7.24	37.12	39.75	74.00	34.25	
	1329.00	44.70	25.53	7.66	36.88	41.01	74.00	32.99	
	1479.00	44.54	26.07	8.35	36.57	42.39	74.00	31.61	
	1682.00	44.38	26.73	8.99	36.19	43.91	74.00	30.09	
	1904.00	43.16	27.35	9.65	35.84	44.32	74.00	29.68	
Vertical	1097.00	45.76	24.57	6.89	37.43	39.79	74.00	34.21	AV
	1197.00	44.92	25.00	7.07	37.18	39.81	74.00	34.19	
	1264.00	44.62	25.28	7.41	37.02	40.29	74.00	33.71	
	1462.00	43.82	26.01	8.26	36.60	41.49	74.00	32.51	
	1609.00	43.89	26.51	8.78	36.32	42.86	74.00	31.14	
	1902.00	42.94	27.34	9.65	35.84	44.09	74.00	29.91	

TEST ENGINEER: Season Yang
(SEASON YANG)

5 DEVIATION TO TEST SPECIFICATIONS

None

6 DEBUG DESCRIPTION

Name	M/N:	Specifications (mm)	Manufacturer	Location
Magnetic Core	125-074E	18.2*9.7* 12	Smart Ceramic Company Ltd.	See LG Intpho Figure 7
Magnetic Core	125-124K	13.9* 6.9* 15.0	Weihai Feelux Electronic Co.,Ltd	See LG Intpho Figure 7