



PHILIPS

Philips Electronics Industries (Taiwan) Ltd - EMC Lab. 5, Tze Chiang 1 Road, Chungli Industrial Park, Chungli, Taoyuan, Taiwan Tel.: +886-3-454-9862 Fax.: +886-3-454-9887 E-mail: ronnie.yang@philips.com	FCC Test Report	Report No.: TYR87-2036 Date : 20 December, 2002 Page : Page 1 of 48		
Customer : Philips Electronics Industries Name : Mr. S.T. Huang – EE LCD Address : 5, Tze Chiang 1 Road, Zip/City : Chungli Industrial Park, Country : Chungli, Taiwan, R.O.C.				
Equipment Under Test (including peripherals) : FCC ID. : A3KM110 Model Name : 200P3 Serial Number : TY0210653 Description : 20" UXGA LCD color monitor, Max. resolution 1600x1200/75Hz				
EMC Standards : FCC Part 15 of October 01,1999 Class B ANSI C63.4-1992 Result : PASSED the limits/test-levels in the standards. Note : The results in this report apply only to the sample(s) and mode(s) tested. It is the manufacturer's responsibility to assume the continued EMC compliance of production models.				
Date of receipt of EUT : 10 Dec. 2002 Date of performance of test : 11 Dec., 2002 to 14 Dec., 2002				
<table border="0"><tr><td style="text-align: center;"> C.C. Wu - EMC Test Engineer</td><td style="text-align: center;"> Ronnie Yang - EMC Manager NVLAP Signatory</td></tr></table>			 C.C. Wu - EMC Test Engineer	 Ronnie Yang - EMC Manager NVLAP Signatory
 C.C. Wu - EMC Test Engineer	 Ronnie Yang - EMC Manager NVLAP Signatory			

Philips Electronics Industries (Taiwan) Ltd

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1. Summary of test results

Test	Standard	Result	Note
Emission, ANSI C63.4-1992			
Conducted emission	FCC Part 15	Passed	
Radiated emission	FCC Part 15	Passed	

Remark:

The test sample fully complies with the requirements set forth in : FCC Part 15 Class B.

2. General Information of EUT

The EUT, 20" color monitor :

Model No. : 200P3
 FCC ID : A3KM110
 Brand : PHILIPS

The color monitor automatically scans horizontal frequencies between 30KHz and 94KHz , and vertical frequencies between 56Hz and 85Hz. This color monitor displays sharp and brilliant images of text and graphics with a maximum resolution up to 1600x1200 pixels.

The monitor has 19 factory-preset modes as indicated in the following table:

Item	H.Freq. (KHz)	Mode	Resolution	V.Freq. (Hz)
1	31.469	IBM VGA 10H	640x350	70.086
2	31.469	IBM VGA 3H	720x400	70.087
3	31.469	IBM VGA 12H	640x480	59.940
4	35.000	MACINTOSH	640x480	67.000
5	37.500	VESA	640x480	75.000
6	35.156	VESA	800x600	56.250
7	37.879	VESA	800x600	60.317
8	46.875	VESA	800x600	75.000
9	49.700	MACINTOSH	832x624	75.000
10	48.363	VESA	1024x768	60.004
11	60.023	VESA	1024x768	75.029
12	68.700	MACINTOSH	1152x870	75.000
13	71.810	SUN WS	1152x900	76.150
14	63.981	VESA	1280x1024	60.020
15	79.976	VESA	1280x1024	75.025
16	91.1	VESA	1280x1024	85
17	75.0	VESA	1600x1200	60
18	93.8	VESA	1600x1200	75
19	31.250	TV-PAL	688x556	50.

3. Test Equipment

Test equipment used for line Conducted and Radiated emissions as following.
All equipment were calibrated according to ANSI C63.4-1992 and ISO-9000 requirement unless otherwise specified.

Traceability to R.O.C. and international standards is assured by using calibrated all equipment.

- For Conducted Emissions Test:

Test Equipment	Model No.	Serial No.	Last Calibrate	Next Calibrate
Spectrum	HP8568B	2928A04640	06/27/2002	06/27/2003
EMI Receiver	R & S ESVS30	841977/006	06/13/2002	06/13/2003
LISN	EMCO 3825/2	9311-2153	06/13/2002	06/13/2003
LISN	EMCO 3825/2	9311-2154	06/13/2002	06/13/2003
RF Cable	8-meter	N/A	05/29-2002	05/29/2003

- For Radiated Emissions Test:

Test Equipment	Model No.	Serial No.	Last Calibrate	Next Calibrate
Spectrum	HP8568B	2928A04640	06/27/2002	06/27/2003
RF Preselector	HP85685A	2620A00338	06/27/2002	06/27/2003
QP Adapter	HP85650A	2811A01324	06/27/2002	06/27/2003
EMI Receiver	R & S ESVS30	841977/006	06/13/2002	06/13/2003
Biconical Antenna	EMCO 3110B	3222	06/04/2002	06/04/2003
Biconical Antenna	EMCO 3110B	3224	06/04/2002	06/04/2003
Log-Periodic Antenna	EMCO 3146A	1424	06/04/2002	06/04/2003
Log-Periodic Antenna	EMCO 3146A	1425	06/04/2002	06/04/2003
Turn Table	EMCO 1060	1068	05/27/2002	05/27/2003
Antenna Tower	EMCO 1050	1113	05/27/2002	05/27/2003
RF Cable	M17/75-RG214-NE	N/A	05/27/2002	05/27/2003

4. Test Configuration of EUT and Peripherals

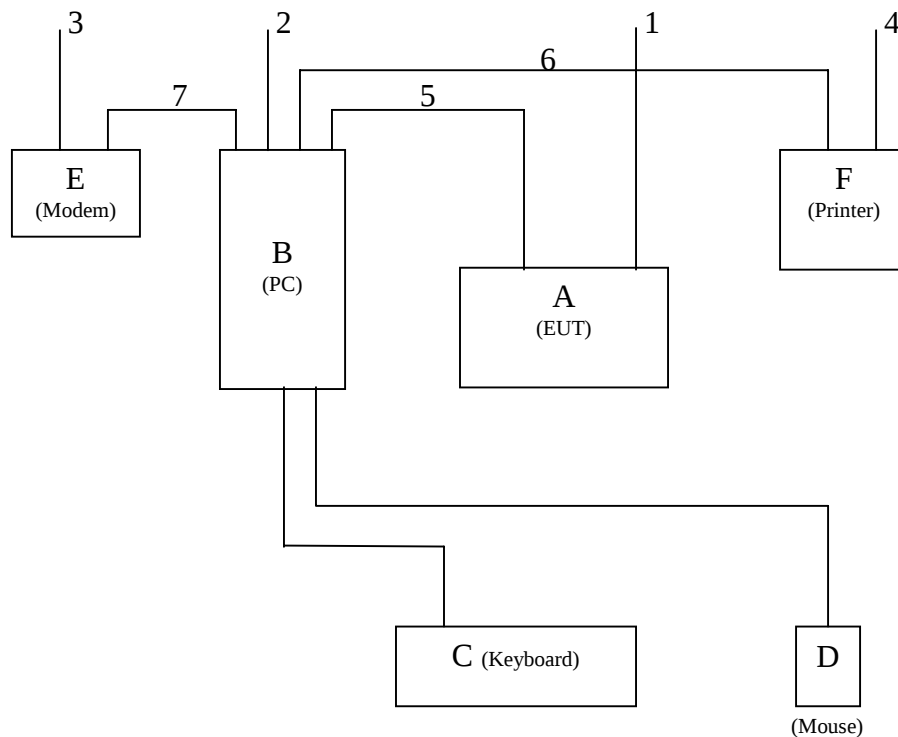
The system was configured for testing in a typical fashion (as a customer would normally use it) according to ANSI C63.4-1992, please see the photographs for detail. For system measurement, the EUT “200P3” were connected to:

	Description	Brand/ Model No.	Serial No.	FCC ID	Remark
A	Monitor	PHILIPS 200P3	TY0210653	A3KM110	EUT
B	PC	Compaq ENC P866	5K15FXHZ2013	FCC Logo	
C	Keyboard	Compaq KB-9963	B26950GGALP13Q	FCC Logo	
D	Mouse	Compaq M-S48a		JNZ201213	
E	Modem	Hayes 231AA	A22231081770	BFJ9D9308US	
F	Printer	HP 2225C	2934S55406	DSI6XU2225	

Connected Cables

No.	Description	Manufacturer	Length	Shielded	Remark
1	Power Cord	Long Shine	1.8 meters	No	for EUT
2	Power Cord	Acer	1.8 meters	No	for PC
3	Power Cord	Aceex	2.0 meters	No	for Modem
4	Power Cord	HP	1.8 meters	No	for Printer
5	Video Cable	Long Shine	1.5 meters	Yes	
6	Printer Cable	HP	1.8 meters	Yes	
7	Modem Cable	Aceex	1.5 meters	Yes	

System Block Diagram of Test Configuration



5. Test Procedure

Test was performed by:

PHILIPS ELECTRONICS INDUSTRIES (TAIWAN) LTD.
CONSUMER ELECTRONICS DIVISION
- EMC LAB

5, Tze Chiang 1 Road, Chungli Industrial Park
P.O. Box 123, Chungli, Taoyuan, Taiwan
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Internet: ronnie.yang@philips.com

The test was performed in accordance with ANSI C63.4-1992, "AMERICAN NATIONAL STANDARD FOR MEASUREMENT OF RADIO-NOISE EMISSION FROM LOW-VOLTAGE ELECTRICAL AND ELECTRONIC EQUIPMENT IN THE RANGE OF 9KHz TO 40GHz"

Both conducted and radiated testing were performed according to the procedure in ANSI C63.4-1992. Conducted testing was performed in screen room and radiated testing was performed in open site at an antenna to EUT distance of 3-meter on horizontal and vertical polarization.

First, pre-scan all modes in screen room then select **3 higher modes** (worst case) were tested and reported.

The line conductive interference was tested with 110VAC and 220VAC receptively.

Unshielded power cord was used during test.

D-sub I/F cable with two ferrite cores was used.

DVI I/F cable with two ferrite cores was used.

Audio cable with one ferrite core was used

Tested and reported modes as following:

Test Item	File No.	Resolution	Frequencies	I/F Cable
Conducted	EMI02-066-C	1600x1200	93.8KHz/75Hz	D-sub
		1600x1200	75KHz/60Hz	DVI
		1280x1024	91.1KHz/85Hz	D-sub & DVI
Radiated	EMI02-066-R	1600x1200	93.8KHz/75Hz	D-sub
		1600x1200	75KHz/60Hz	DVI
		1280x1024	91.1KHz/85Hz	D-sub & DVI

Set up the EUT and all peripherals as chapter 6 of ANSI C63.4-1992 for AC power line conducted emissions testing and radiated emissions testing.

Turn on the power of EUT and all peripherals, select an appropriate displaying mode using the "setup" software. Then run an EMI test program "HTEST.EMI" as a basic software to execute the EUT operating under test. A pattern of scrolling H's should be

displayed on the monitor.

Step 1 : Run the "HTEST.EMI" on personal computer then sends "H" character to monitor continuously until full screen.

Step 2 : Personal computer sends a complete line of continuously repeating "H" to HP 2225C printer.

Step 3 : Personal computer sends a file of "H" pattern to floppy disk then read a file of "H" pattern from floppy disk.

Step 4 : Personal computer sends a file of "H" pattern to hard disk then read a file of "H" pattern from hard disk.

Step 5 : Personal computer sends a file of "H" pattern to USRobotics 268 modem.

Step 6 : Return to step 1

All data in this report are "PEAK" value within 15dB margin unless otherwise noted.

6. Measurement Uncertainty

The system uncertainty listed below are based on the instrument absolute specifications, and do not include uncertainties of the equipment under test.

Uncertainty for Radiated Emissions Test at 3 meters Test Site.

Source of Measurement Uncertainty	Uncertainty/dB
Antenna factor calibration	+/-2.0
Cable loss calibration	+/-0.5
Receiver specification	+/-1.0
Antenna position ver.	+/-2.0
Measurement distance ver.	+/-0.5
Site imperfections	+/-2.0
Mismatch	+/-1.1
System repeatability	+/-0.5

Uncertainty for Conducted Emissions Test at 3 meters Test Site.

Source of Measurement Uncertainty	Uncertainty/dB
LISN specification	+/-2.0
Cable loss calibration	+/-0.5
Receiver specification	+/-1.0
Pulse limiter Spec.	+/-0.3
Measurement distance ver.	+/-0.5
Site imperfections	+/-2.0
System repeatability	+/-0.5

Conducted Emissions

FCC Part 15

Operating conditions EUT:

EUT powered on with scrolling “H” pattern.

Limits:

Frequency range (MHz)	Class A (dBuv) QP	Class B (dBuv) QP
0.45 – 1.705	60.0	48.0
1.705 – 30.0	69.5	48.0

Test Result :

Passed FCC Class B Limits

Option:

The following option may be employed if the conducted emissions exceed the limits, as appropriate, when measured using instrumentation employing a quasi-peak detector function: If the level of the emission measured using the quasi-peak instrumentation is 6dB, or, more higher than the level of the same emission measured with instrumentation having an average detector and a 9KHz minimum bandwidth, that emission is considered broadband and the level obtained with the quasi-peak detector may be reduced by 13dB for comparison to the limits.

Remark:

Date of Test	: 11 Dec., 2002 to 14 Dec., 2002
Test Engineer	: C.C.Wu

For detail measurement results see next pages.

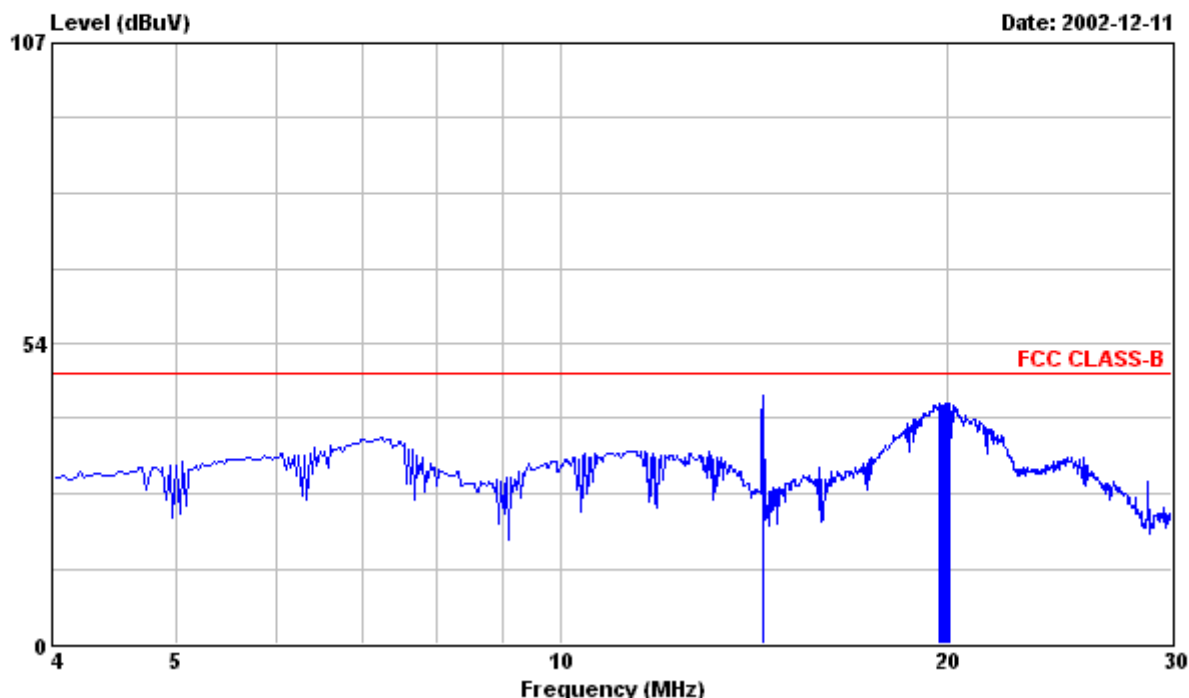


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Data#: 1

File#: C:\Program Files\em3\EMI02-066-C(Philips 200P3 NO Video).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L1 LINE
EUT : PHILIPS 200P3 Serial No:TY0210653
Power : 120VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. W/O VIDEO 2ND MODEL LG PANEL, RUN
: IBM V1.8 FONT 14 "H" PATTERN.
: 3. AUDIO WITH HEADPHONE & MICROPHONE.
: 4. 1280x1024/85Hz 91.1KHz MODE WITH
: COMPAQ ENC/P866/20E/8/128A TAI PC,
: ATI RADEON VE DDR VIDEO CARD &
: D-SUB I/F CABLE WAS TESTED.

Frequency	Peak Reading	QP Reading	Limit	Factor	Emission Level	Over Limit	Remark
LINE							
14.398	43.40	---	48.00	0.69	44.09	-3.91	Peak
19.776	42.00	---	48.00	0.80	42.80	-5.20	Peak
19.835	41.70	---	48.00	0.80	42.50	-5.50	Peak
19.894	41.80	---	48.00	0.80	42.60	-5.40	Peak
19.953	42.00	---	48.00	0.80	42.80	-5.20	Peak
20.012	42.10	---	48.00	0.80	42.90	-5.10	Peak
20.071	41.80	---	48.00	0.80	42.60	-5.40	Peak
20.130	42.00	---	48.00	0.80	42.80	-5.20	Peak

Remarks: 1. All Readings are Peak & Quasi-Peak Values.
2. Emission Level (dBuV) = Factor (dB) + Meter Reading (dBuV)
3. Factor (dB/m) = LISN Loss (dB) + Cable Loss (dB)

Tested by : C.C.Wu

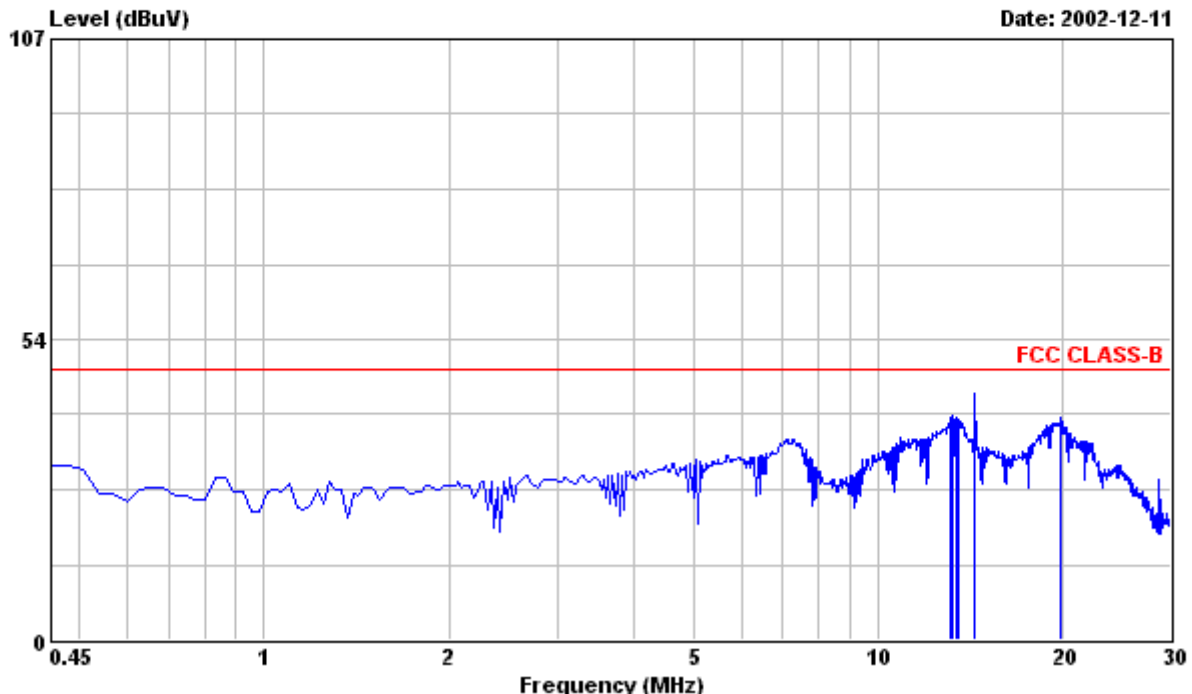


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Data#: 2

File#: C:\Program Files\em3\EMI02-066-C(Philips 200P3 NO Video).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L2 NEUTRAL
EUT : PHILIPS 200P3 Serial No:TY0210653
Power : 120VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. W/O VIDEO 2ND MODEL LG PANEL,RUN
: IBM V1.8 FONT 14 "H" PATTERN.
: 3. AUDIO WITH HEADPHONE & MICROPHONE.
: 4. 1280x1024/85Hz 91.1KHz MODE WITH
: COMPAQ ENC/P866/20E/8/128A TAI PC,
: ATI RADEON VE DDR VIDEO CARD &
: D-SUB I/F CABLE WAS TESTED.

Frequency	Peak Reading	QP Reading	Limit	Factor	Emission Level	Over Limit	Remark
NEUTRAL							

13.157	38.80	---	48.00	0.67	39.47	-8.53	Peak
13.216	38.70	---	48.00	0.67	39.37	-8.63	Peak
13.275	39.20	---	48.00	0.67	39.87	-8.13	Peak
13.393	39.00	---	48.00	0.67	39.67	-8.33	Peak
13.511	38.60	---	48.00	0.67	39.27	-8.73	Peak
13.570	38.70	---	48.00	0.68	39.38	-8.62	Peak
14.398	43.30	---	48.00	0.69	43.99	-4.01	Peak
19.835	38.71	---	48.00	0.89	39.60	-8.40	Peak

Remarks: 1. All Readings are Peak & Quasi-Peak Values.
2. Emission Level (dBuV) = Factor (dB) + Meter Reading (dBuV)
3. Factor (dB/m) = LISN Loss (dB) + Cable Loss (dB)

Tested by : C.C.Wu

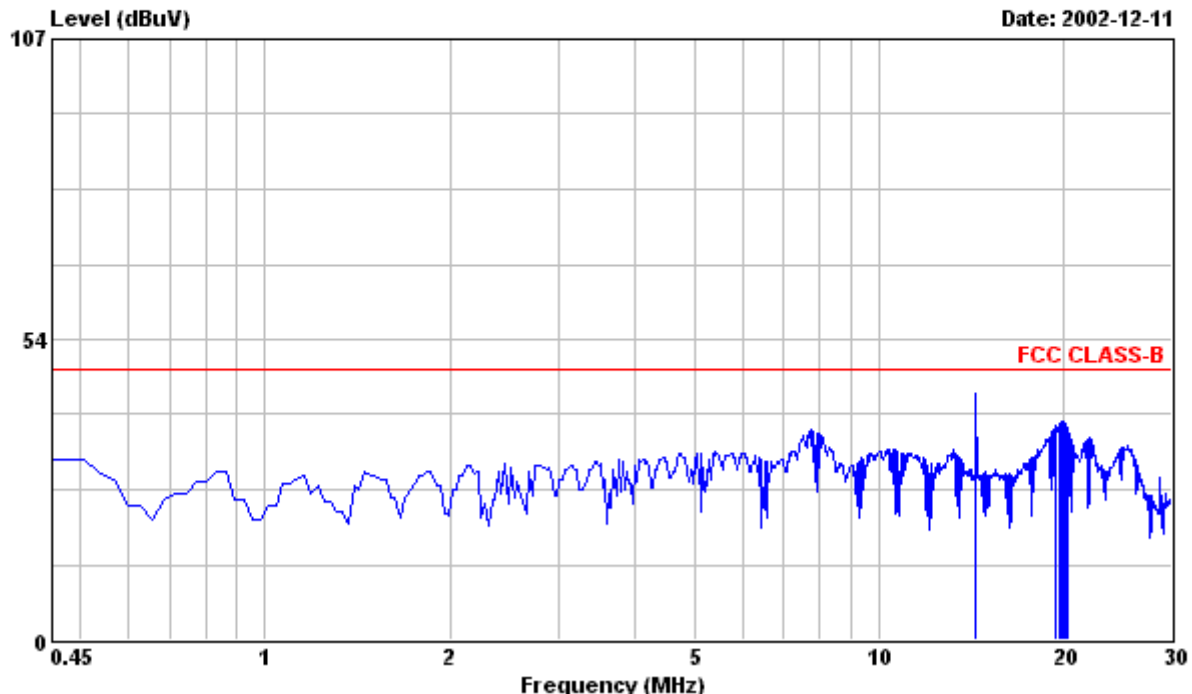


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Data#: 3

File#: C:\Program Files\em3\EMI02-066-C(Philips 200P3 NO Video).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L1 LINE
EUT : PHILIPS 200P3 Serial No:TY0210653
Power : 220VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. W/O VIDEO 2ND MODEL LG PANEL,RUN
: IBM V1.8 FONT 14 "H" PATTERN.
: 3. AUDIO WITH HEADPHONE & MICROPHONE.
: 4. 1280x1024/85Hz 91.1KHz MODE WITH
: COMPAQ ENC/P866/2OE/8/128A TAI PC,
: ATI RADEON VE DDR VIDEO CARD &
: D-SUB I/F CABLE WAS TESTED.

Frequency	Peak Reading	QP Reading	Limit	Factor	Emission Level	Over Limit	Remark
LINE							
14.398	43.30	---	48.00	0.69	43.99	-4.01	Peak
19.421	37.40	---	48.00	0.79	38.19	-9.81	Peak
19.717	37.80	---	48.00	0.80	38.60	-9.40	Peak
19.894	38.20	---	48.00	0.80	39.00	-9.00	Peak
20.012	38.20	---	48.00	0.80	39.00	-9.00	Peak
20.130	37.80	---	48.00	0.80	38.60	-9.40	Peak
20.189	37.50	---	48.00	0.81	38.31	-9.69	Peak
20.308	37.00	---	48.00	0.81	37.81	-10.19	Peak

Remarks: 1. All Readings are Peak & Quasi-Peak Values.
2. Emission Level (dBuV) = Factor (dB) + Meter Reading (dBuV)
3. Factor (dB/m) = LISN Loss (dB) + Cable Loss (dB)

Tested by : C.C.Wu

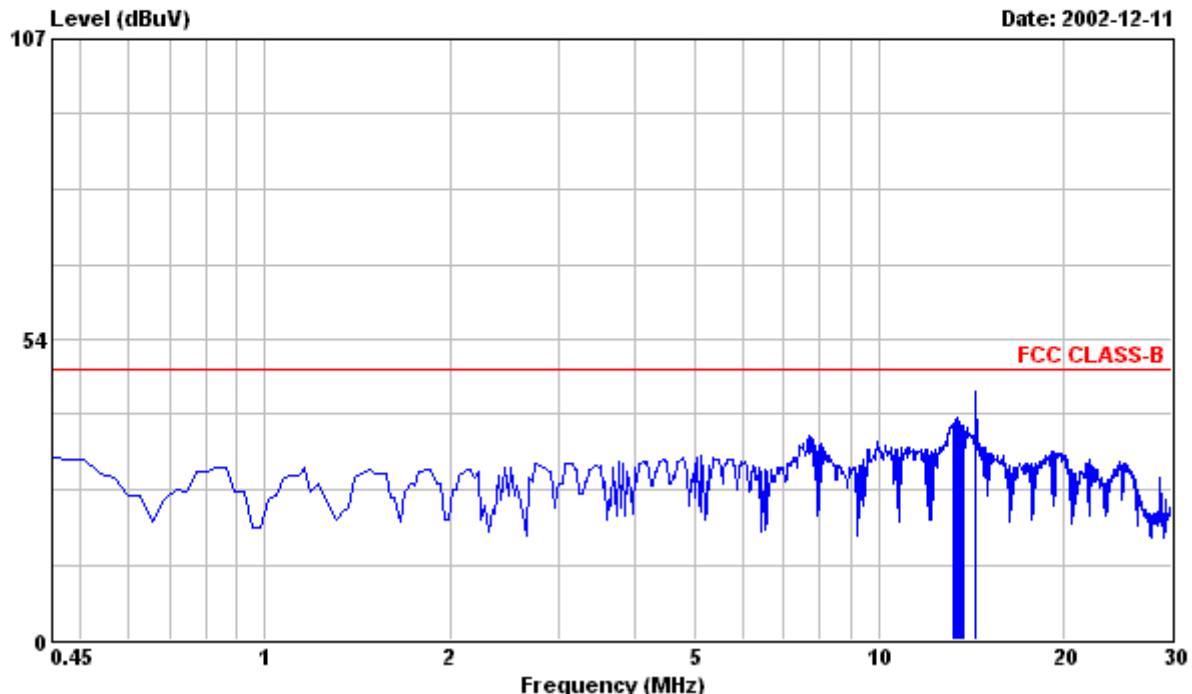


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Data#: 4

File#: C:\Program Files\em3\EMI02-066-C(Philips 200P3 NO Video).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L2 NEUTRAL
EUT : PHILIPS 200P3 Serial No:TY0210653
Power : 220VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. W/O VIDEO 2ND MODEL LG PANEL,RUN
: IBM V1.8 FONT 14 "H" PATTERN.
: 3. AUDIO WITH HEADPHONE & MICROPHONE.
: 4. 1280x1024/85Hz 91.1KHz MODE WITH
: COMPAQ ENC/P866/20E/8/128A TAI PC,
: ATI RADEON VE DDR VIDEO CARD &
: D-SUB I/F CABLE WAS TESTED.

Frequency	Peak Reading	QP Reading	Limit	Factor	Emission Level	Over Limit	Remark
NEUTRAL							

13.216	37.90	---	48.00	0.67	38.57	-9.43	Peak
13.334	38.40	---	48.00	0.67	39.07	-8.93	Peak
13.393	38.90	---	48.00	0.67	39.57	-8.43	Peak
13.452	38.30	---	48.00	0.67	38.97	-9.03	Peak
13.570	38.20	---	48.00	0.68	38.88	-9.12	Peak
13.629	37.60	---	48.00	0.68	38.28	-9.72	Peak
13.748	37.60	---	48.00	0.68	38.28	-9.72	Peak
14.398	43.70	---	48.00	0.69	44.39	-3.61	Peak

Remarks: 1. All Readings are Peak & Quasi-Peak Values.
2. Emission Level (dBuV) = Factor (dB) + Meter Reading (dBuV)
3. Factor (dB/m) = LISN Loss (dB) + Cable Loss (dB)

Tested by : C.C.Wu

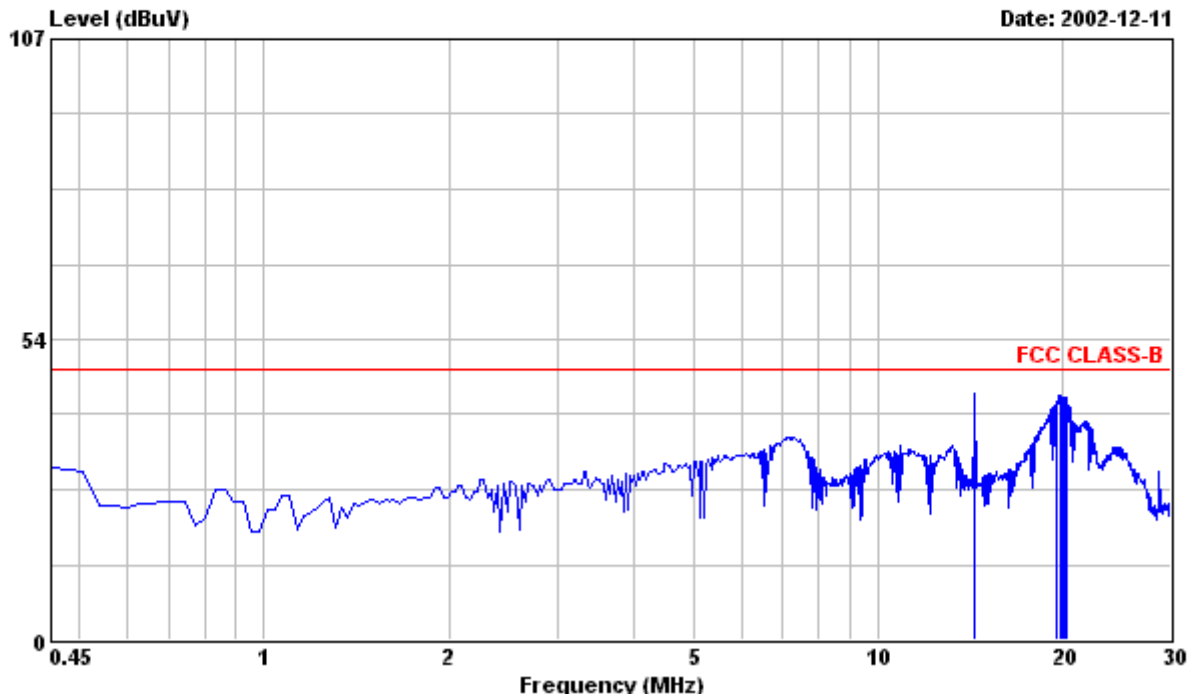


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Data#: 5

File#: C:\Program Files\em3\EMI02-066-C(Philips 200P3 NO Video).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L1 LINE
EUT : PHILIPS 200P3 Serial No:TY0210653
Power : 120VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. W/O VIDEO 2ND MODEL LG PANEL,RUN
: IBM V1.8 FONT 16 "H" PATTERN.
: 3. AUDIO WITH HEADPHONE & MICROPHONE.
: 4. 1600x1200/75Hz 93.8KHz MODE WITH
: COMPAQ ENC/P866/20E/8/128A TAI PC,
: ATI RADEON VE DDR VIDEO CARD &
: D-SUB I/F CABLE WAS TESTED.

Frequency	Peak Reading	QP Reading	Limit	Factor	Emission Level	Over Limit	Remark
LINE							
14.398	43.10	---	48.00	0.69	43.79	-4.21	Peak
19.598	41.60	---	48.00	0.79	42.39	-5.61	Peak
19.776	42.70	---	48.00	0.80	43.50	-4.50	Peak
19.953	42.30	---	48.00	0.80	43.10	-4.90	Peak
20.012	41.80	---	48.00	0.80	42.60	-5.40	Peak
20.130	42.40	---	48.00	0.80	43.20	-4.80	Peak
20.249	42.30	---	48.00	0.81	43.11	-4.89	Peak
20.308	42.00	---	48.00	0.81	42.81	-5.19	Peak

Remarks: 1. All Readings are Peak & Quasi-Peak Values.
2. Emission Level (dBuV) = Factor (dB) + Meter Reading (dBuV)
3. Factor (dB/m) = LISN Loss (dB) + Cable Loss (dB)

Tested by : C.C.Wu

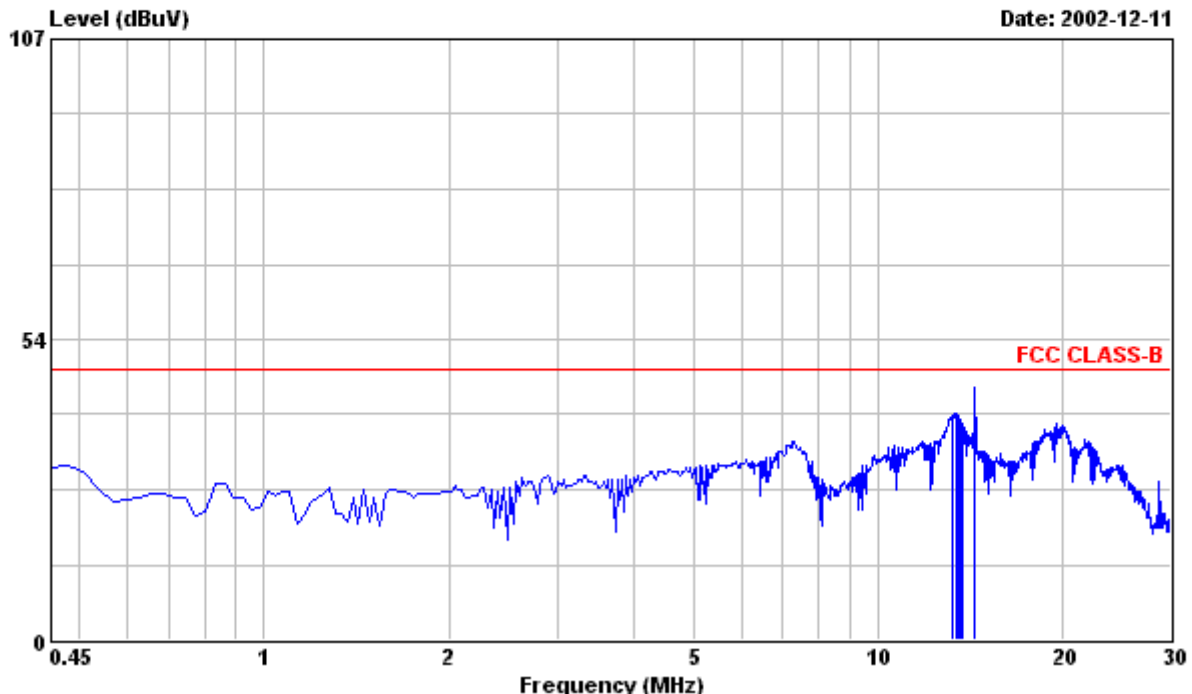


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Data#: 6

File#: C:\Program Files\em3\EMI02-066-C(Philips 200P3 NO Video).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L2 NEUTRAL
EUT : PHILIPS 200P3 Serial No:TY0210653
Power : 120VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. W/O VIDEO 2ND MODEL LG PANEL,RUN
: IBM V1.8 FONT 16 "H" PATTERN.
: 3. AUDIO WITH HEADPHONE & MICROPHONE.
: 4. 1600x1200/75Hz 93.8KHz MODE WITH
: COMPAQ ENC/P866/20E/8/128A TAI PC,
: ATI RADEON VE DDR VIDEO CARD &
: D-SUB I/F CABLE WAS TESTED.

Frequency	Peak Reading	QP Reading	Limit	Factor	Emission Level	Over Limit	Remark
NEUTRAL							

13.216	39.20	---	48.00	0.67	39.87	-8.13	Peak
13.393	39.60	---	48.00	0.67	40.27	-7.73	Peak
13.452	39.60	---	48.00	0.67	40.27	-7.73	Peak
13.511	39.20	---	48.00	0.67	39.87	-8.13	Peak
13.570	39.00	---	48.00	0.68	39.68	-8.32	Peak
13.629	38.60	---	48.00	0.68	39.28	-8.72	Peak
13.688	38.00	---	48.00	0.68	38.68	-9.32	Peak
14.398	44.10	---	48.00	0.69	44.79	-3.21	Peak

Remarks: 1. All Readings are Peak & Quasi-Peak Values.
2. Emission Level (dBuV) = Factor (dB) + Meter Reading (dBuV)
3. Factor (dB/m) = LISN Loss (dB) + Cable Loss (dB)

Tested by : C.C.Wu

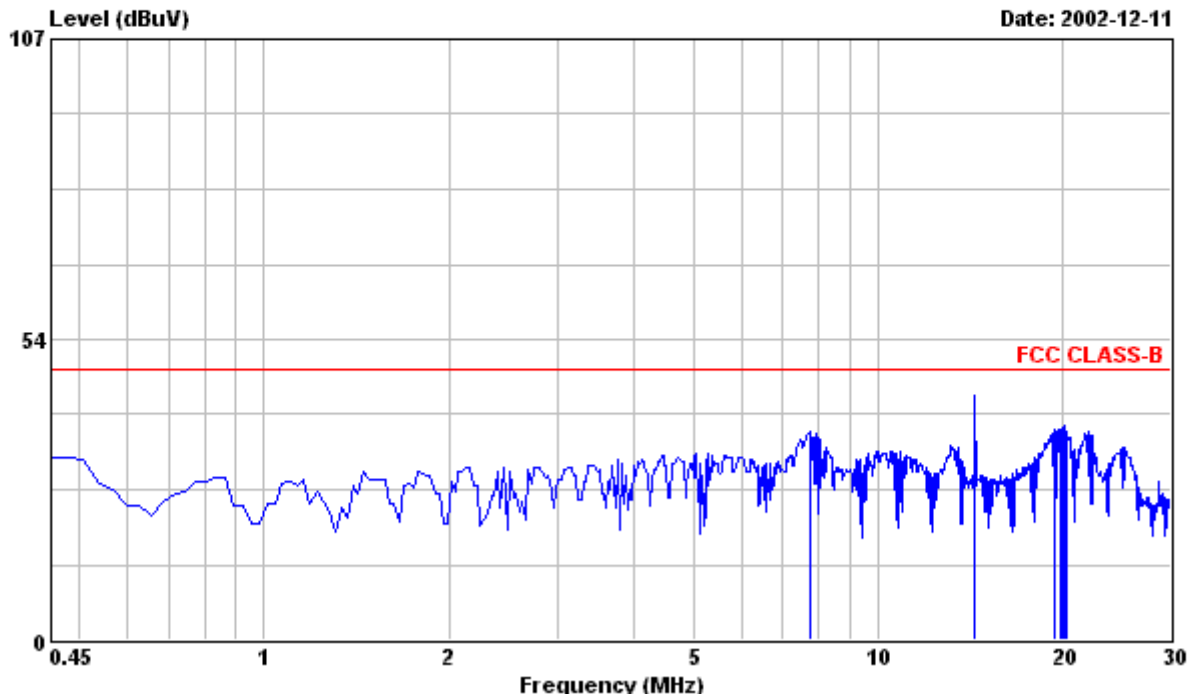


PHILIPS

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Data#: 7

File#: C:\Program Files\em3\EMI02-066-C(Philips 200P3 NO Video).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L1 LINE
EUT : PHILIPS 200P3 Serial No:TY0210653
Power : 220VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. W/O VIDEO 2ND MODEL LG PANEL,RUN
: IBM V1.8 FONT 16 "H" PATTERN.
: 3. AUDIO WITH HEADPHONE & MICROPHONE.
: 4. 1600x1200/75Hz 93.8KHz MODE WITH
: COMPAQ ENC/P866/20E/8/128A TAI PC,
: ATI RADEON VE DDR VIDEO CARD &
: D-SUB I/F CABLE WAS TESTED.

Frequency	Peak Reading	QP Reading	Limit	Factor	Emission Level	Over Limit	Remark
LINE							
7.778	36.80	---	48.00	0.40	37.20	-10.80	Peak
14.398	42.90	---	48.00	0.69	43.59	-4.41	Peak
19.421	36.50	---	48.00	0.79	37.29	-10.71	Peak
19.776	36.60	---	48.00	0.80	37.40	-10.60	Peak
20.012	37.10	---	48.00	0.80	37.90	-10.10	Peak
20.130	37.20	---	48.00	0.80	38.00	-10.00	Peak
20.189	36.70	---	48.00	0.81	37.51	-10.49	Peak
20.249	36.40	---	48.00	0.81	37.21	-10.79	Peak

Remarks: 1. All Readings are Peak & Quasi-Peak Values.
2. Emission Level (dBuV) = Factor (dB) + Meter Reading (dBuV)
3. Factor (dB/m) = LISN Loss (dB) + Cable Loss (dB)

Tested by : C.C.Wu

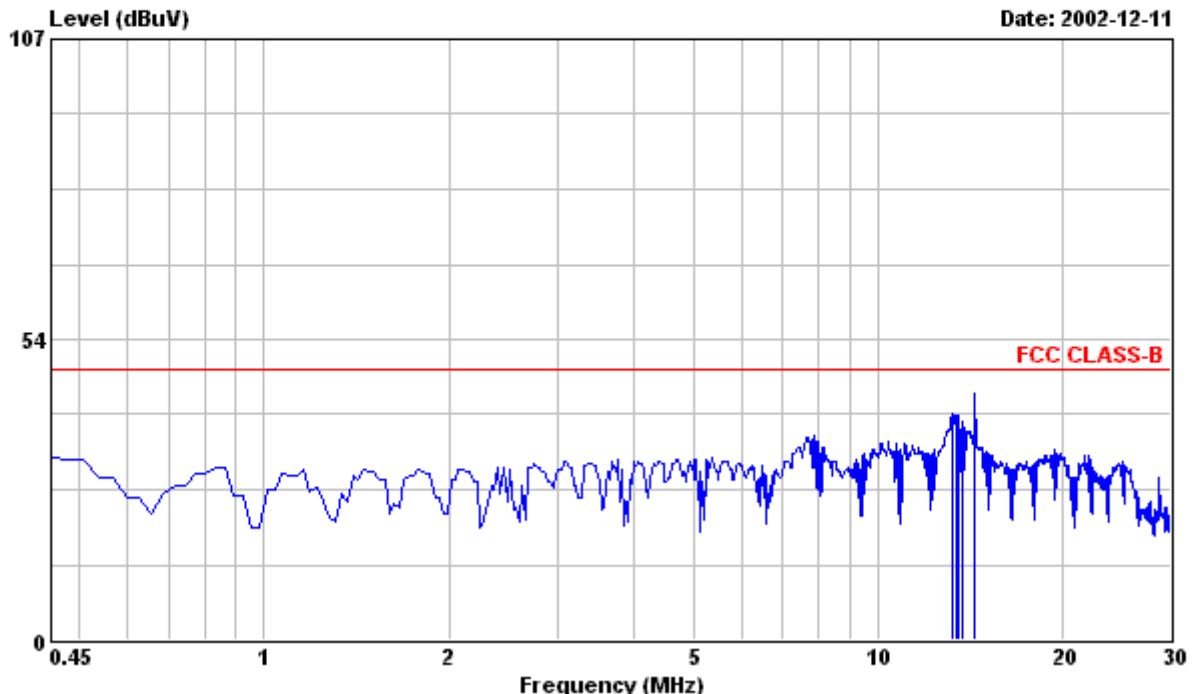


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Data#: 8

File#: C:\Program Files\em3\EMI02-066-C(Philips 200P3 NO Video).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L2 NEUTRAL
EUT : PHILIPS 200P3 Serial No:TY0210653
Power : 220VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. W/O VIDEO 2ND MODEL LG PANEL,RUN
: IBM V1.8 FONT 16 "H" PATTERN.
: 3. AUDIO WITH HEADPHONE & MICROPHONE.
: 4. 1600x1200/75Hz 93.8KHz MODE WITH
: COMPAQ ENC/P866/20E/8/128A TAI PC,
: ATI RADEON VE DDR VIDEO CARD &
: D-SUB I/F CABLE WAS TESTED.

Frequency	Peak Reading	QP Reading	Limit	Factor	Emission Level	Over Limit	Remark
NEUTRAL							

13.275	39.50	---	48.00	0.67	40.17	-7.83	Peak
13.393	39.40	---	48.00	0.67	40.07	-7.93	Peak
13.452	39.30	---	48.00	0.67	39.97	-8.03	Peak
13.511	39.30	---	48.00	0.67	39.97	-8.03	Peak
13.570	38.40	---	48.00	0.68	39.08	-8.92	Peak
13.688	38.20	---	48.00	0.68	38.88	-9.12	Peak
13.748	37.90	---	48.00	0.68	38.58	-9.42	Peak
14.398	43.10	---	48.00	0.69	43.79	-4.21	Peak

Remarks: 1. All Readings are Peak & Quasi-Peak Values.
2. Emission Level (dBuV) = Factor (dB) + Meter Reading (dBuV)
3. Factor (dB/m) = LISN Loss (dB) + Cable Loss (dB)

Tested by : C.C.Wu

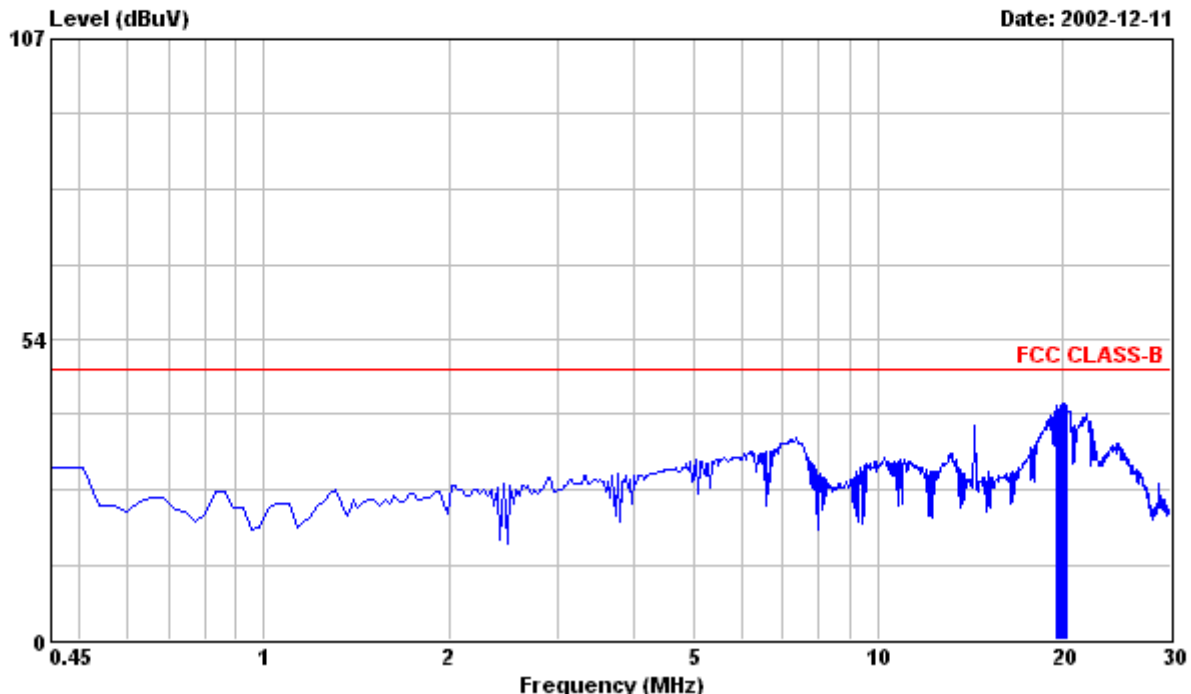


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Data#: 9

File#: C:\Program Files\em3\EMI02-066-C(Philips 200P3 NO Video).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L1 LINE
EUT : PHILIPS 200P3 Serial No:TY0210653
Power : 120VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. W/O VIDEO 2ND MODEL LG PANEL,RUN
: IBM V1.8 FONT 16 "H" PATTERN.
: 3. AUDIO WITH HEADPHONE & MICROPHONE.
: 4. 1600x1200/60Hz 75KHz MODE WITH
: COMPAQ ENC/P866/20E/8/128A TAI PC,
: ATI RADEON VE DDR VIDEO CARD &
: DVI I/F CABLE WAS TESTED.

Frequency	Peak Reading	QP Reading	Limit	Factor	Emission Level	Over Limit	Remark
LINE							
19.539	40.80	---	48.00	0.79	41.59	-6.41	Peak
19.717	40.20	---	48.00	0.80	41.00	-7.00	Peak
19.776	41.10	---	48.00	0.80	41.90	-6.10	Peak
19.835	41.00	---	48.00	0.80	41.80	-6.20	Peak
20.012	41.40	---	48.00	0.80	42.20	-5.80	Peak
20.160	41.20	---	48.00	0.80	42.00	-6.00	Peak
20.249	41.00	---	48.00	0.81	41.81	-6.19	Peak
20.308	40.40	---	48.00	0.81	41.21	-6.79	Peak

Remarks: 1. All Readings are Peak & Quasi-Peak Values.
2. Emission Level (dBuV) = Factor (dB) + Meter Reading (dBuV)
3. Factor (dB/m) = LISN Loss (dB) + Cable Loss (dB)

Tested by : C.C.Wu

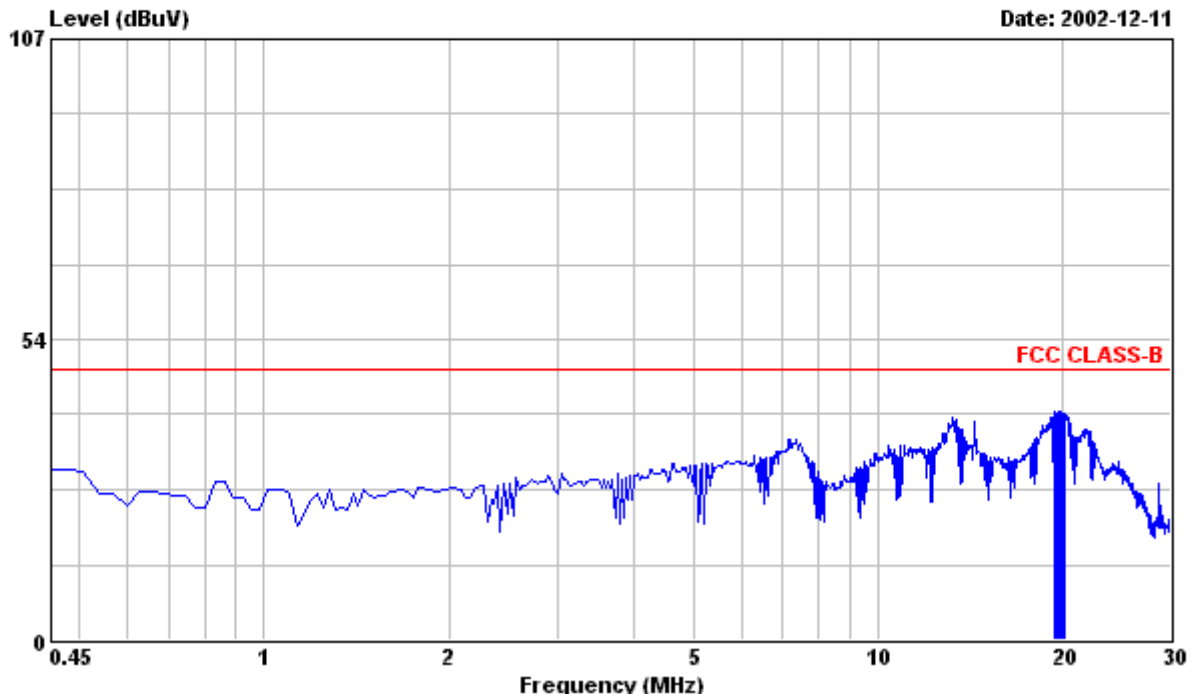


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Data#: 10

File#: C:\Program Files\em3\EMI02-066-C(Philips 200P3 NO Video).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L2 NEUTRAL
EUT : PHILIPS 200P3 Serial No:TY0210653
Power : 120VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. W/O VIDEO 2ND MODEL LG PANEL,RUN
: IBM V1.8 FONT 16 "H" PATTERN.
: 3. AUDIO WITH HEADPHONE & MICROPHONE.
: 4. 1600x1200/60Hz 75KHz MODE WITH
: COMPAQ ENC/P866/20E/8/128A TAI PC,
: ATI RADEON VE DDR VIDEO CARD &
: DVI I/F CABLE WAS TESTED.

Frequency	Peak Reading	QP Reading	Limit	Factor	Emission Level	Over Limit	Remark
NEUTRAL							
19.421	39.90	---	48.00	0.88	40.78	-7.22	Peak
19.480	39.40	---	48.00	0.88	40.28	-7.72	Peak
19.598	39.40	---	48.00	0.89	40.29	-7.71	Peak
19.658	39.60	---	48.00	0.89	40.49	-7.51	Peak
19.717	39.40	---	48.00	0.89	40.29	-7.71	Peak
19.894	39.80	---	48.00	0.90	40.70	-7.30	Peak
20.012	39.50	---	48.00	0.90	40.40	-7.60	Peak
20.189	39.50	---	48.00	0.91	40.41	-7.59	Peak

Remarks: 1. All Readings are Peak & Quasi-Peak Values.
2. Emission Level (dBuV) = Factor (dB) + Meter Reading (dBuV)
3. Factor (dB/m) = LISN Loss (dB) + Cable Loss (dB)

Tested by : C.C.Wu

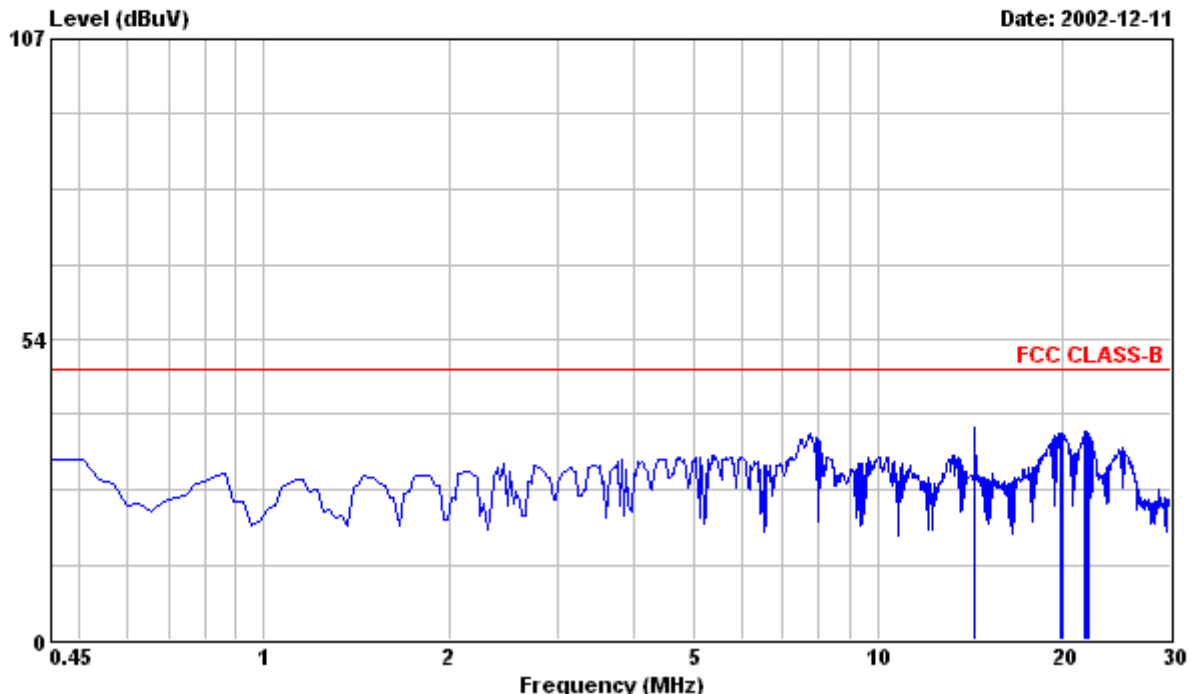


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Data#: 11

File#: C:\Program Files\em3\EMI02-066-C(Philips 200P3 NO Video).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L1 LINE
EUT : PHILIPS 200P3 Serial No:TY0210653
Power : 220VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. W/O VIDEO 2ND MODEL LG PANEL,RUN
: IBM V1.8 FONT 16 "H" PATTERN.
: 3. AUDIO WITH HEADPHONE & MICROPHONE.
: 4. 1600x1200/60Hz 75KHz MODE WITH
: COMPAQ ENC/P866/20E/8/128A TAI PC,
: ATI RADEON VE DDR VIDEO CARD &
: DVI I/F CABLE WAS TESTED.

Frequency	Peak Reading	QP Reading	Limit	Factor	Emission Level	Over Limit	Remark
LINE							
14.398	37.20	---	48.00	0.69	37.89	-10.11	Peak
19.776	36.00	---	48.00	0.80	36.80	-11.20	Peak
19.894	36.00	---	48.00	0.80	36.80	-11.20	Peak
20.012	35.90	---	48.00	0.80	36.70	-11.30	Peak
21.785	36.40	---	48.00	0.84	37.24	-10.76	Peak
21.844	36.10	---	48.00	0.84	36.94	-11.06	Peak
21.962	35.80	---	48.00	0.84	36.64	-11.36	Peak
22.081	35.91	---	48.00	0.84	36.75	-11.25	Peak

Remarks: 1. All Readings are Peak & Quasi-Peak Values.
2. Emission Level (dBuV) = Factor (dB) + Meter Reading (dBuV)
3. Factor (dB/m) = LISN Loss (dB) + Cable Loss (dB)

Tested by : C.C.Wu

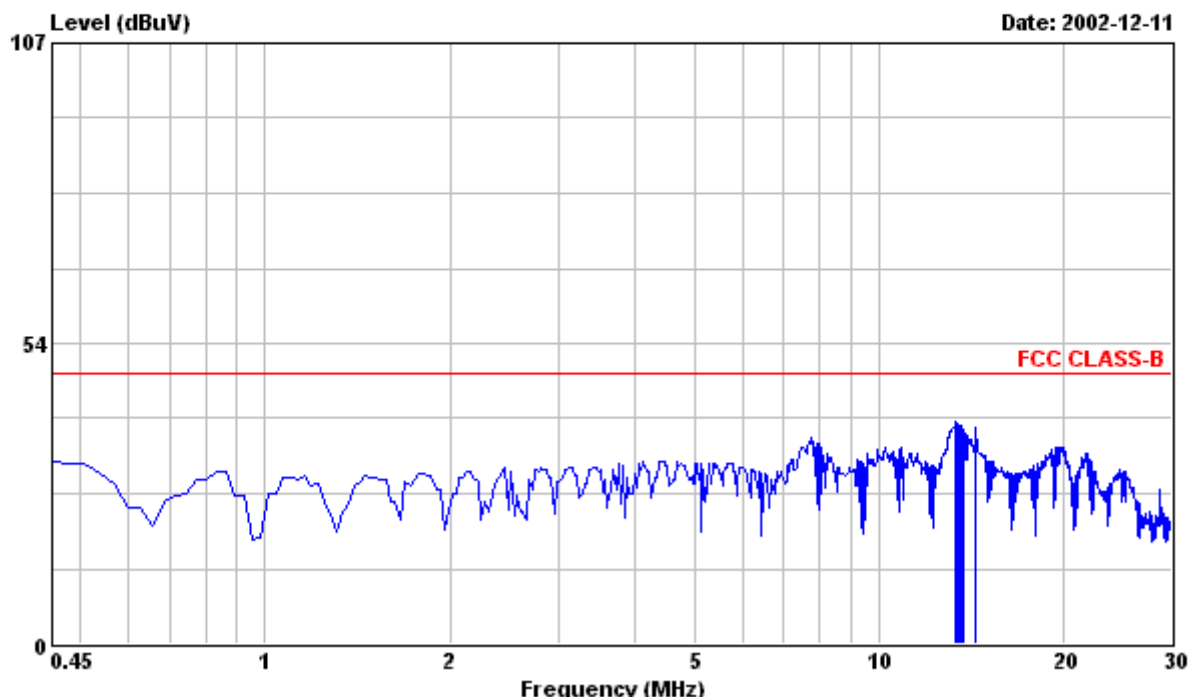


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Data#: 12

File#: C:\Program Files\em3\EMI02-066-C(Philips 200P3 NO Video).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L2 NEUTRAL
EUT : PHILIPS 200P3 Serial No:TY0210653
Power : 220VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. W/O VIDEO 2ND MODEL LG PANEL, RUN
: IBM V1.8 FONT 16 "H" PATTERN.
: 3. AUDIO WITH HEADPHONE & MICROPHONE.
: 4. 1600x1200/60Hz 75KHz MODE WITH
: COMPAQ ENC/P866/20E/8/128A TAI PC,
: ATI RADEON VE DDR VIDEO CARD &
: DVI I/F CABLE WAS TESTED.

Frequency	Peak Reading	QP Reading	Limit	Factor	Emission Level	Over Limit	Remark
NEUTRAL							

13.334	38.80	---	48.00	0.67	39.47	-8.53	Peak
13.393	38.60	---	48.00	0.67	39.27	-8.73	Peak
13.452	37.10	---	48.00	0.67	37.77	-10.23	Peak
13.511	38.10	---	48.00	0.67	38.77	-9.23	Peak
13.570	38.10	---	48.00	0.68	38.78	-9.22	Peak
13.629	38.10	---	48.00	0.68	38.78	-9.22	Peak
13.688	37.50	---	48.00	0.68	38.18	-9.82	Peak
14.398	37.90	---	48.00	0.69	38.59	-9.41	Peak

Remarks: 1. All Readings are Peak & Quasi-Peak Values.
2. Emission Level (dBuV) = Factor (dB) + Meter Reading (dBuV)
3. Factor (dB/m) = LISN Loss (dB) + Cable Loss (dB)

Tested by : C.C.Wu

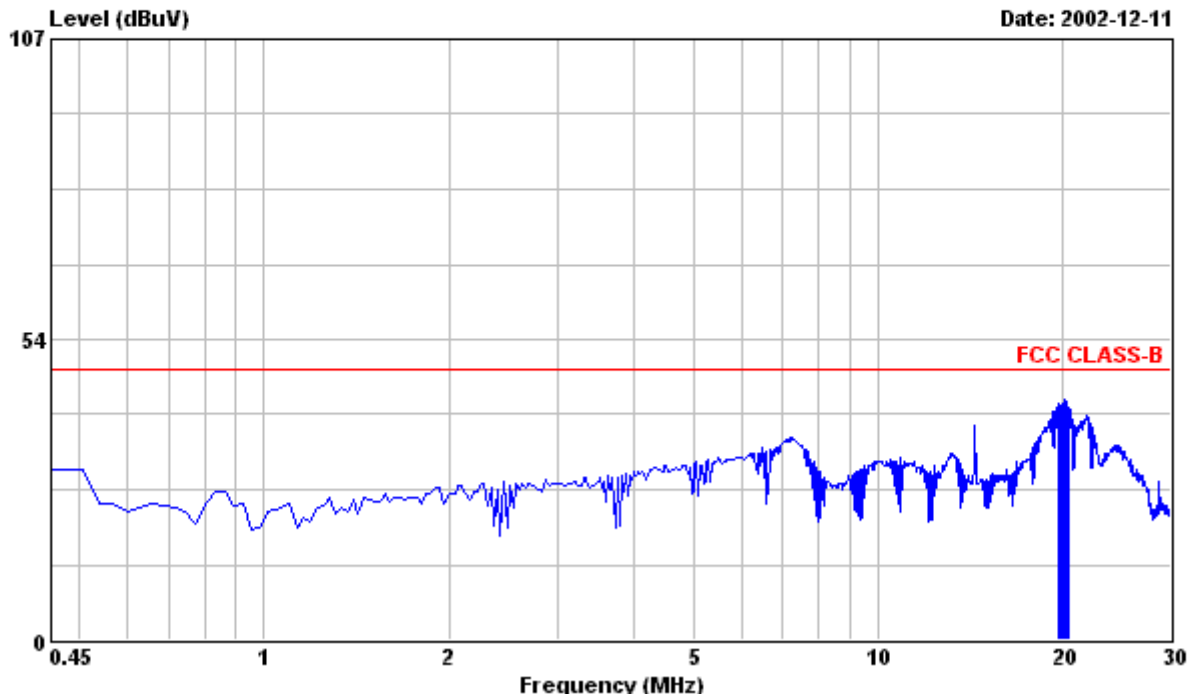


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Data#: 13

File#: C:\Program Files\em3\EMI02-066-C(Philips 200P3 NO Video).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L1 LINE
EUT : PHILIPS 200P3 Serial No:TY0210653
Power : 120VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. W/O VIDEO 2ND MODEL LG PANEL,RUN
: IBM V1.8 FONT 14 "H" PATTERN.
: 3. AUDIO WITH HEADPHONE & MICROPHONE.
: 4. 1280x1024/85Hz 91.1KHz MODE WITH
: COMPAQ ENC/P866/20E/8/128A TAI PC,
: ATI RADEON VE DDR VIDEO CARD &
: DVI I/F CABLE WAS TESTED.

Frequency	Peak Reading	QP Reading	Limit	Factor	Emission Level	Over Limit	Remark
LINE							
19.658	40.91	---	48.00	0.79	41.70	-6.30	Peak
19.717	41.20	---	48.00	0.80	42.00	-6.00	Peak
19.894	41.10	---	48.00	0.80	41.90	-6.10	Peak
20.012	41.40	---	48.00	0.80	42.20	-5.80	Peak
20.130	41.90	---	48.00	0.80	42.70	-5.30	Peak
20.189	41.40	---	48.00	0.81	42.21	-5.79	Peak
20.308	41.70	---	48.00	0.81	42.51	-5.49	Peak
20.485	40.70	---	48.00	0.81	41.51	-6.49	Peak

Remarks: 1. All Readings are Peak & Quasi-Peak Values.
2. Emission Level (dBuV) = Factor (dB) + Meter Reading (dBuV)
3. Factor (dB/m) = LISN Loss (dB) + Cable Loss (dB)

Tested by : C.C.Wu

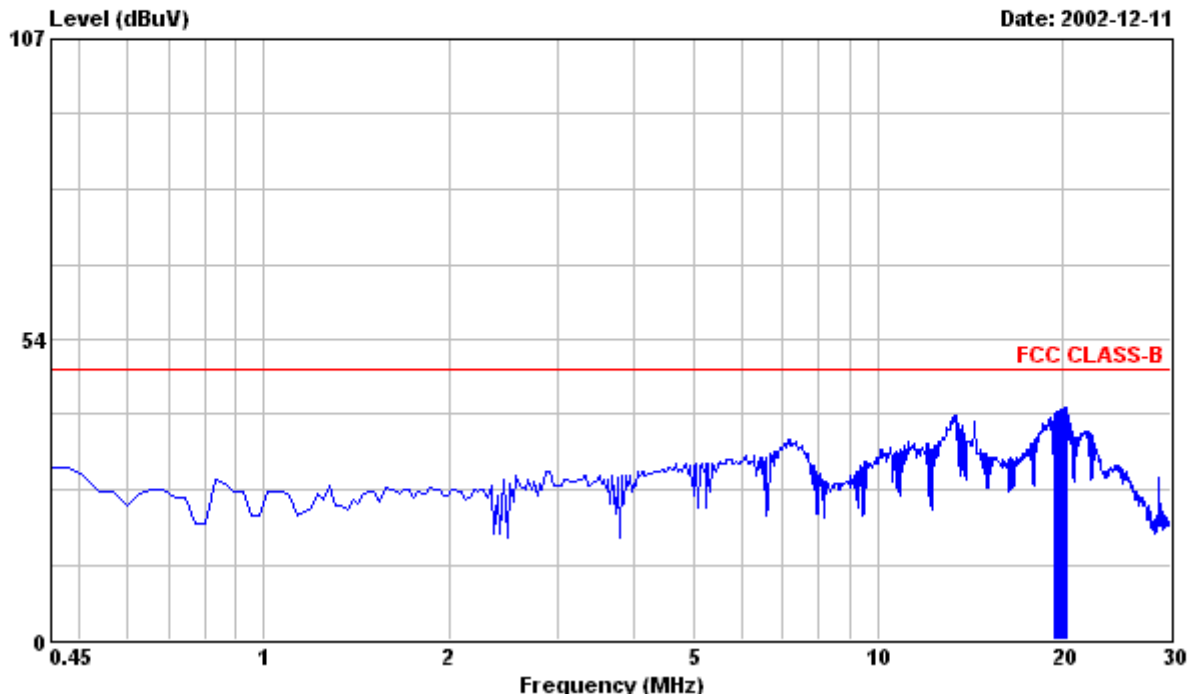


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Data#: 14

File#: C:\Program Files\em3\EMI02-066-C(Philips 200P3 NO Video).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L2 NEUTRAL
EUT : PHILIPS 200P3 Serial No:TY0210653
Power : 120VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. W/O VIDEO 2ND MODEL LG PANEL,RUN
: IBM V1.8 FONT 14 "H" PATTERN.
: 3. AUDIO WITH HEADPHONE & MICROPHONE.
: 4. 1280x1024/85Hz 91.1KHz MODE WITH
: COMPAQ ENC/P866/20E/8/128A TAI PC,
: ATI RADEON VE DDR VIDEO CARD &
: DVI I/F CABLE WAS TESTED.

Frequency Peak Reading QP Reading Limit Factor Emission Level Over Limit Remark
NEUTRAL

19.421	39.30	---	48.00	0.88	40.18	-7.82	Peak
19.480	39.70	---	48.00	0.88	40.58	-7.42	Peak
19.598	39.30	---	48.00	0.89	40.19	-7.81	Peak
19.658	39.60	---	48.00	0.89	40.49	-7.51	Peak
19.776	39.40	---	48.00	0.89	40.29	-7.71	Peak
19.953	40.10	---	48.00	0.90	41.00	-7.00	Peak
20.071	40.00	---	48.00	0.90	40.90	-7.10	Peak
20.249	40.50	---	48.00	0.91	41.41	-6.59	Peak

Remarks: 1. All Readings are Peak & Quasi-Peak Values.
2. Emission Level (dBuV) = Factor (dB) + Meter Reading (dBuV)
3. Factor (dB/m) = LISN Loss (dB) + Cable Loss (dB)

Tested by : C.C.Wu

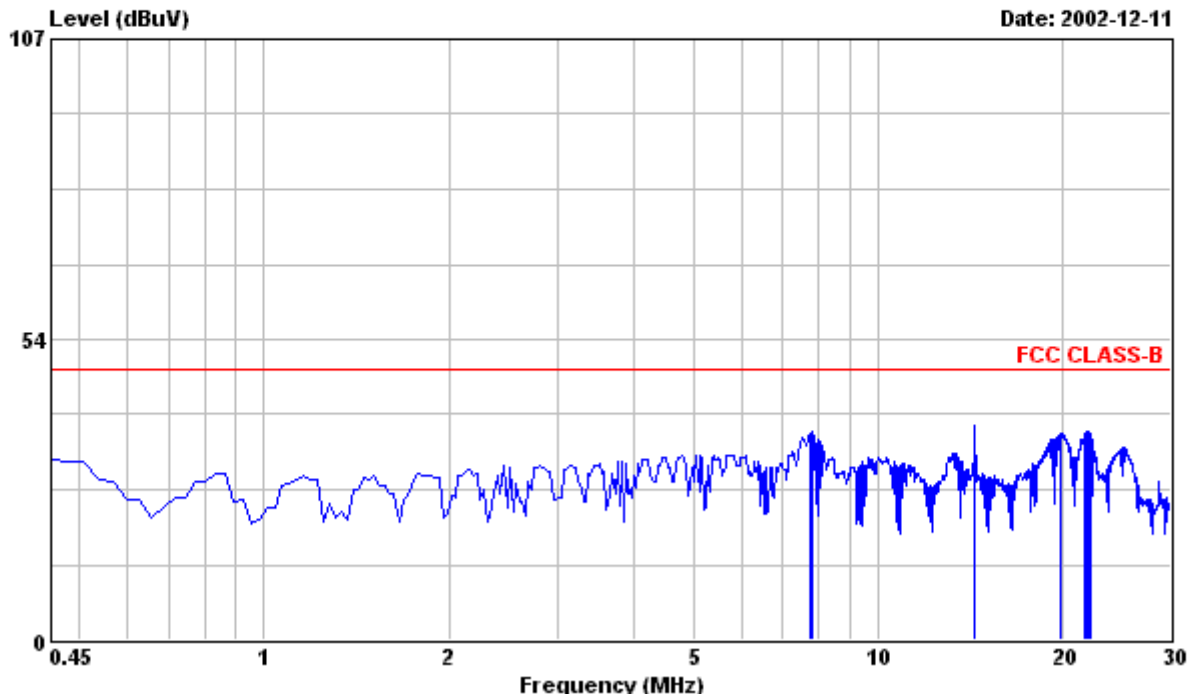


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Data#: 15

File#: C:\Program Files\em3\EMI02-066-C(Philips 200P3 NO Video).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L1 LINE
EUT : PHILIPS 200P3 Serial No:TY0210653
Power : 220VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. W/O VIDEO 2ND MODEL LG PANEL,RUN
: IBM V1.8 FONT 14 "H" PATTERN.
: 3. AUDIO WITH HEADPHONE & MICROPHONE.
: 4. 1280x1024/85Hz 91.1KHz MODE WITH
: COMPAQ ENC/P866/2OE/8/128A TAI PC,
: ATI RADEON VE DDR VIDEO CARD &
: DVI I/F CABLE WAS TESTED.

Frequency	Peak Reading	QP Reading	Limit	Factor	Emission Level	Over Limit	Remark
LINE							
7.778	36.40	---	48.00	0.40	36.80	-11.20	Peak
7.838	36.70	---	48.00	0.40	37.10	-10.90	Peak
14.398	37.40	---	48.00	0.69	38.09	-9.91	Peak
19.835	36.00	---	48.00	0.80	36.80	-11.20	Peak
21.667	36.00	---	48.00	0.84	36.84	-11.16	Peak
21.903	36.10	---	48.00	0.84	36.94	-11.06	Peak
22.022	36.20	---	48.00	0.84	37.04	-10.96	Peak
22.199	35.90	---	48.00	0.85	36.75	-11.25	Peak

Remarks: 1. All Readings are Peak & Quasi-Peak Values.
2. Emission Level (dBuV) = Factor (dB) + Meter Reading (dBuV)
3. Factor (dB/m) = LISN Loss (dB) + Cable Loss (dB)

Tested by : C.C.Wu

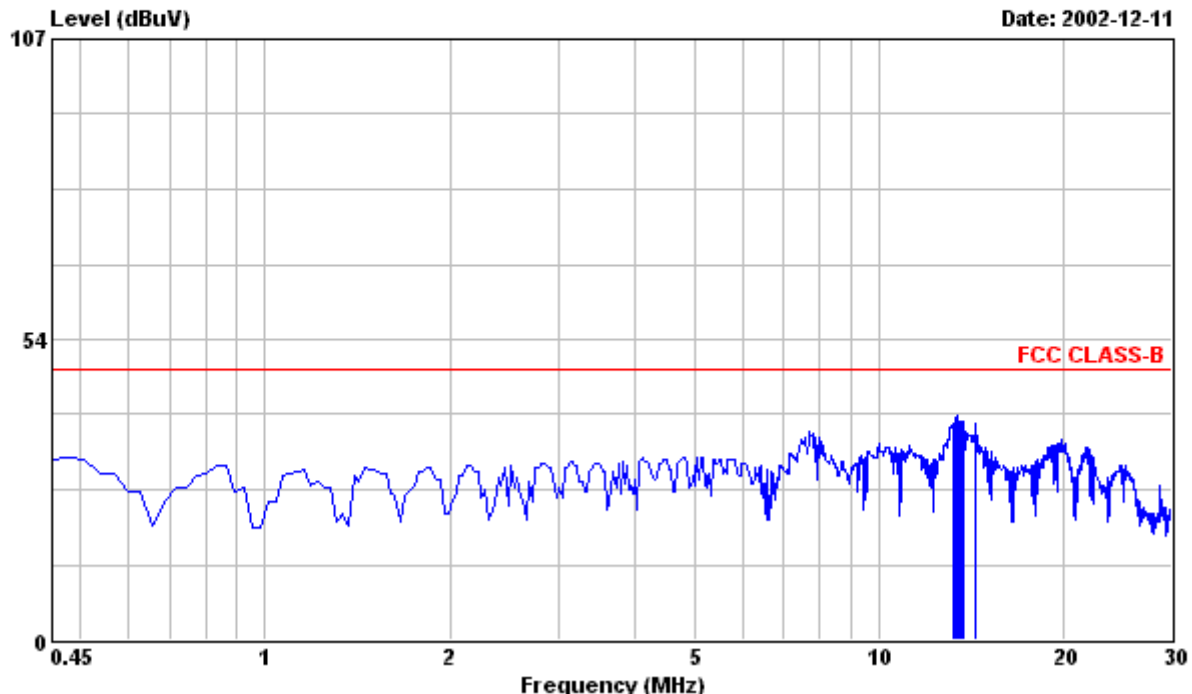


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Data#: 16

File#: C:\Program Files\em3\EMI02-066-C(Philips 200P3 NO Video).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L2 NEUTRAL
EUT : PHILIPS 200P3 Serial No:TY0210653
Power : 220VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. W/O VIDEO 2ND MODEL LG PANEL,RUN
: IBM V1.8 FONT 14 "H" PATTERN.
: 3. AUDIO WITH HEADPHONE & MICROPHONE.
: 4. 1280x1024/85Hz 91.1KHz MODE WITH
: COMPAQ ENC/P866/20E/8/128A TAI PC,
: ATI RADEON VE DDR VIDEO CARD &
: DVI I/F CABLE WAS TESTED.

Frequency	Peak Reading	QP Reading	Limit	Factor	Emission Level	Over Limit	Remark
NEUTRAL							
13.216	37.80	---	48.00	0.67	38.47	-9.53	Peak
13.334	38.90	---	48.00	0.67	39.57	-8.43	Peak
13.393	38.40	---	48.00	0.67	39.07	-8.93	Peak
13.452	39.10	---	48.00	0.67	39.77	-8.23	Peak
13.511	38.20	---	48.00	0.67	38.87	-9.13	Peak
13.629	38.10	---	48.00	0.68	38.78	-9.22	Peak
13.688	38.10	---	48.00	0.68	38.78	-9.22	Peak
14.398	38.00	---	48.00	0.69	38.69	-9.31	Peak

Remarks: 1. All Readings are Peak & Quasi-Peak Values.
2. Emission Level (dBuV) = Factor (dB) + Meter Reading (dBuV)
3. Factor (dB/m) = LISN Loss (dB) + Cable Loss (dB)

Tested by : C.C.Wu

8. .Radiated Emission Test

Radiated Emissions FCC Part 15																				
Operating conditions EUT: EUT powered on with scrolling “H” pattern.																				
Limits: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%;">Frequency range (MHz)</th> <th style="width: 33%;">Class A at 10m (dBuv) QP</th> <th style="width: 33%;">Class B at 3m (dBuv) QP</th> </tr> </thead> <tbody> <tr> <td>30.0 – 88.0</td> <td>39.0</td> <td>40.0</td> </tr> <tr> <td>88.0 – 216.0</td> <td>43.5</td> <td>43.5</td> </tr> <tr> <td>216.0 – 960.0</td> <td>46.5</td> <td>46.0</td> </tr> <tr> <td>960.0 – 1000.0</td> <td>49.5</td> <td>54.0</td> </tr> <tr> <td>Above 1000.0</td> <td>49.5</td> <td>54.0 Average</td> </tr> </tbody> </table>			Frequency range (MHz)	Class A at 10m (dBuv) QP	Class B at 3m (dBuv) QP	30.0 – 88.0	39.0	40.0	88.0 – 216.0	43.5	43.5	216.0 – 960.0	46.5	46.0	960.0 – 1000.0	49.5	54.0	Above 1000.0	49.5	54.0 Average
Frequency range (MHz)	Class A at 10m (dBuv) QP	Class B at 3m (dBuv) QP																		
30.0 – 88.0	39.0	40.0																		
88.0 – 216.0	43.5	43.5																		
216.0 – 960.0	46.5	46.0																		
960.0 – 1000.0	49.5	54.0																		
Above 1000.0	49.5	54.0 Average																		
Test Result : Passed FCC Class B Limits																				
Remark:																				
Date of Test Test Engineer	: 11 Dec., 2002 to 14 Dec., 2002 : C.C.Wu																			
For detail measurement results see next pages.																				

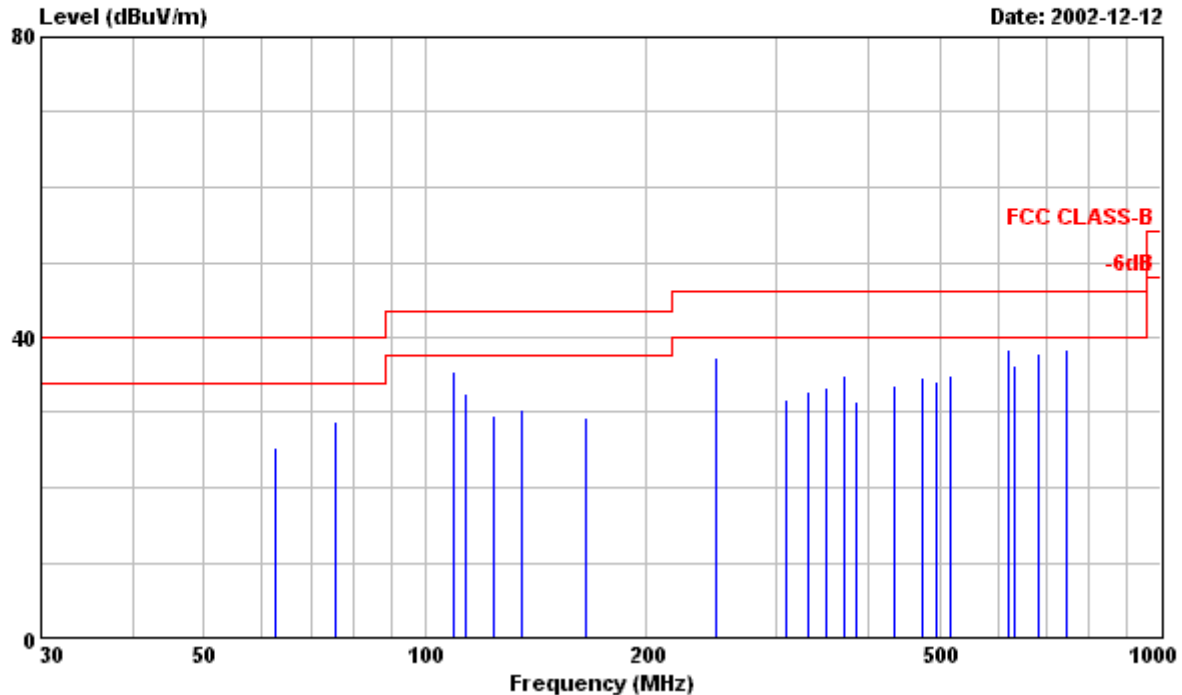


PHILIPS

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Data#: 1

File#: C:\Program Files\em3\EMI02-066-R.emi



Site : PHILIPS EMI 3M open site
Condition : FCC CLASS-B 3m FCC-3M-FACTOR HORIZONTAL
EUT : PHILIPS 200P3 Serial No:TY0210653
Power : 120-240VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. W/O VIDEO 2ND MODEL LG PANEL,RUN
: IBM V1.8 FONT 14 "H" PATTERN.
: 3. AUDIO WITH HEADPHONE & MICROPHONE.
: 4. 1280x1024/85Hz 91.1KHz MODE WITH
: COMPAQ ENC/P866/20E/8/128A TAI PC,
: ATI RADEON VE DDR VIDEO CARD &
: D-SUB I/F CABLE WAS TESTED.

Frequency	Peak	Reading	QP reading	Limit	Factor	Emission Level	Over Limit	Remark
MHz		dBuV	dBuV	dBuV/m	dB/m	dBuV/m	dBuV/m	
62.650		15.40	---	40.00	9.93	25.33	-14.67	Peak
75.620		18.70	---	40.00	10.23	28.93	-11.07	Peak
109.120		23.50	---	43.50	11.87	35.37	-8.13	Peak
113.100		20.40	---	43.50	12.06	32.46	-11.04	Peak
123.580		17.00	---	43.50	12.47	29.47	-14.03	Peak
134.820		17.39	---	43.50	12.89	30.28	-13.22	Peak
164.740		15.40	---	43.50	13.83	29.23	-14.27	Peak
248.190		17.00	---	46.00	20.37	37.37	-8.63	Peak
310.240		15.10	---	46.00	16.69	31.79	-14.21	Peak
331.510		15.80	---	46.00	17.13	32.93	-13.07	Peak

Remarks: 1. All Readings are Peak & Quasi-peak values.
2. Emission Level (dBuV/m) = Factor (dB/m) + Meter Reading (dBuV/m)
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB)



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Frequency	Peak Reading	QP reading	Limit	Factor	Emission Level	Over Limit	Remark
HORIZONTAL							
MHz	dBuV	dBuV	dBuV/m	dB/m	dBuV/m	dBuV/m	
351.020	15.70	---	46.00	17.51	33.21	-12.79	Peak
372.290	16.90	---	46.00	17.91	34.81	-11.19	Peak
386.470	13.40	---	46.00	18.17	31.57	-14.43	Peak
434.340	14.80	---	46.00	18.87	33.67	-12.33	Peak
473.200	15.30	---	46.00	19.39	34.69	-11.31	Peak
496.380	14.50	---	46.00	19.66	34.16	-11.84	Peak
518.280	14.90	---	46.00	20.02	34.92	-11.08	Peak
620.480	16.80	---	46.00	21.72	38.52	-7.48	Peak
630.930	14.40	---	46.00	21.98	36.38	-9.62	Peak
682.530	14.80	---	46.00	23.13	37.93	-8.07	Peak
744.570	14.30	---	46.00	24.12	38.42	-7.58	Peak

- Remarks: 1. All Readings are Peak & Quasi-peak values.
2. Emission Level (dBuV/m) = Factor (dB/m) + Meter Reading (dBuV/m)
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB)

Tested by : C C.Wu

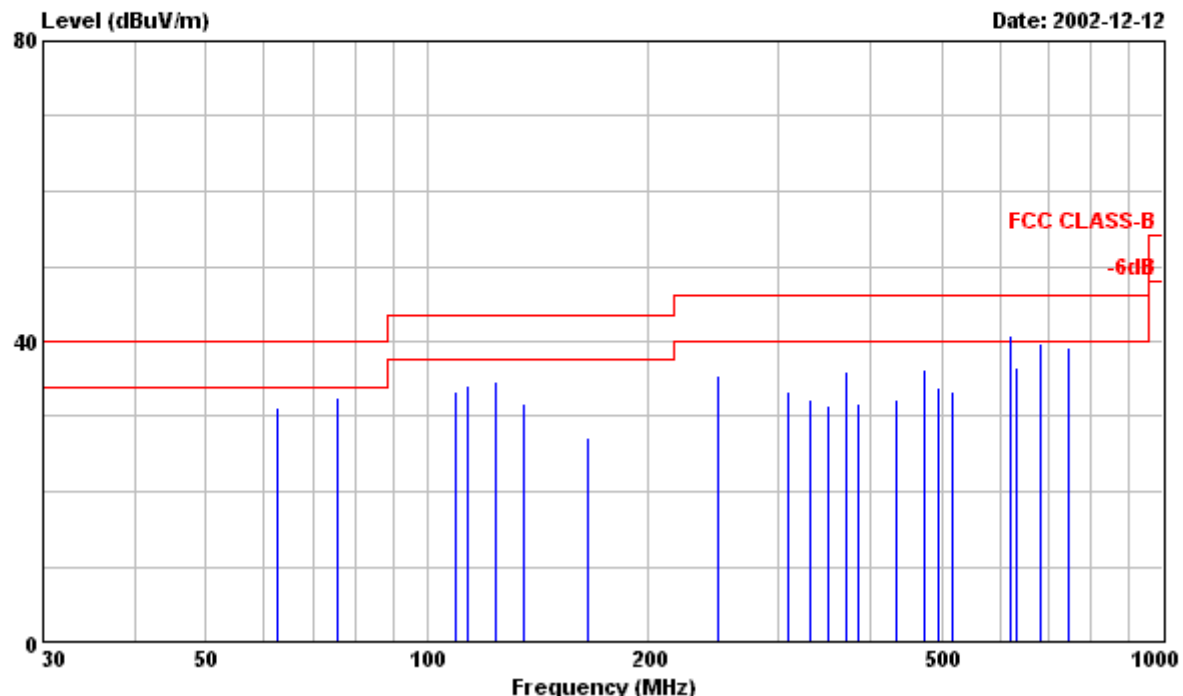


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Data#: 2

File#: C:\Program Files\es\EMI02-066-R.emi



Site : PHILIPS EMI 3M open site
Condition : FCC CLASS-B 3m FCC-3M-FACTOR VERTICAL
EUT : PHILIPS 200P3 Serial No:TY0210653
Power : 120-240VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. W/O VIDEO 2ND MODEL LG PANEL,RUN
: IBM V1.8 FONT 14 "H" PATTERN.
: 3. AUDIO WITH HEADPHONE & MICROPHONE.
: 4. 1280x1024/85Hz 91.1KHz MODE WITH
: COMPAQ ENC/P866/20E/8/128A TAI PC,
: ATI RADEON VE DDR VIDEO CARD &
: D-SUB I/F CABLE WAS TESTED.

Frequency	Peak	Reading	QP reading	Limit	Factor	Emission Level	Over Limit	Remark
MHz		dBuV	dBuV	dBuV/m	dB/m	dBuV/m	dBuV/m	
62.650		21.30	---	40.00	9.93	31.23	-8.77	Peak
75.620		22.30	---	40.00	10.23	32.53	-7.47	Peak
109.120		21.40	---	43.50	11.87	33.27	-10.23	Peak
113.100		22.00	---	43.50	12.06	34.06	-9.44	Peak
123.580		22.30	---	43.50	12.47	34.77	-8.73	Peak
134.820		18.79	---	43.50	12.89	31.68	-11.82	Peak
164.740		13.30	---	43.50	13.83	27.13	-16.37	Peak
248.190		15.00	---	46.00	20.37	35.37	-10.63	Peak
310.240		16.60	---	46.00	16.69	33.29	-12.71	Peak
331.510		15.10	---	46.00	17.13	32.23	-13.77	Peak

Remarks: 1. All Readings are Peak & Quasi-peak values.
2. Emission Level (dBuV/m) = Factor (dB/m) + Meter Reading (dBuV/m)
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB)



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Frequency	Peak Reading	QP reading	Limit	Factor	Emission Level	Over Limit	Remark
					VERTICAL		
MHz	dBuV	dBuV	dBuV/m	dB/m	dBuV/m	dBuV/m	
351.020	13.90	---	46.00	17.51	31.41	-14.59	Peak
372.290	18.00	---	46.00	17.91	35.91	-10.09	Peak
386.470	13.70	---	46.00	18.17	31.87	-14.13	Peak
434.340	13.50	---	46.00	18.87	32.37	-13.63	Peak
473.200	16.80	---	46.00	19.39	36.19	-9.81	Peak
496.380	14.20	---	46.00	19.66	33.86	-12.14	Peak
518.280	13.20	---	46.00	20.02	33.22	-12.78	Peak
620.480	---	17.21	46.00	21.72	38.93	-7.07	QP
! 620.480	19.10	---	46.00	21.72	40.82	-5.18	Peak
630.930	14.60	---	46.00	21.98	36.58	-9.42	Peak
682.530	16.60	---	46.00	23.13	39.73	-6.27	Peak
744.570	15.00	---	46.00	24.12	39.12	-6.88	Peak

- Remarks: 1. All Readings are Peak & Quasi-peak values.
2. Emission Level (dBuV/m) = Factor (dB/m) + Meter Reading (dBuV/m)
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB)

Tested by : C C.Wu

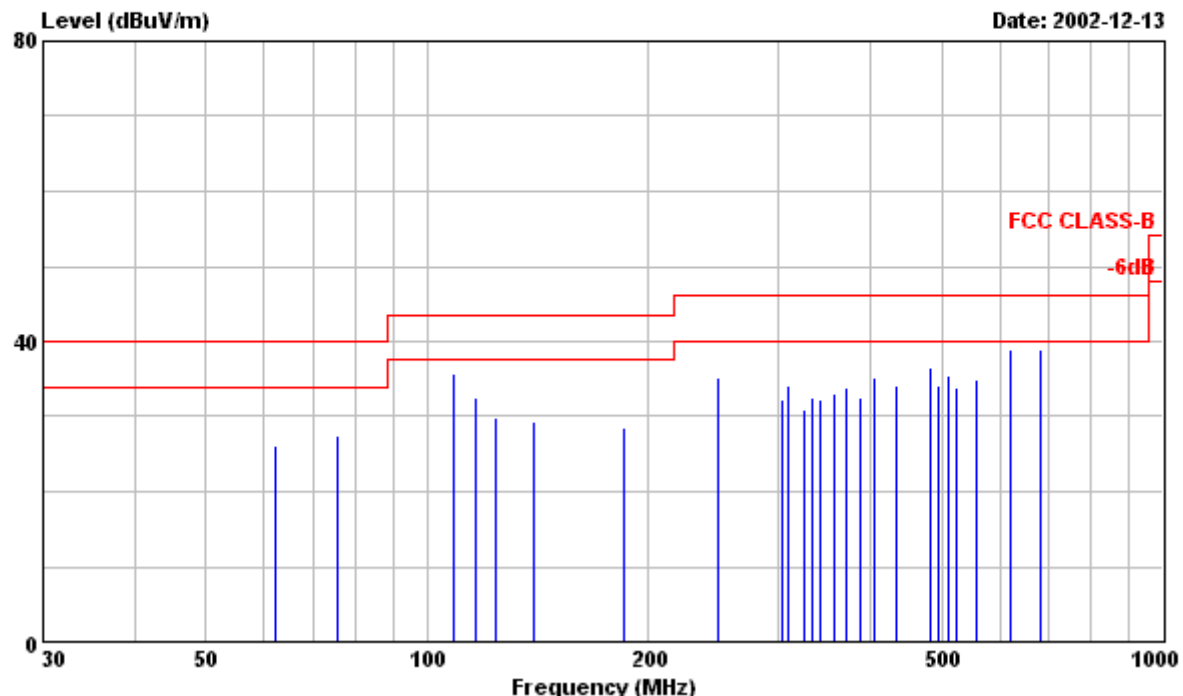


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Data#: 3

File#: C:\Program Files\es\EMI02-066-R.emi



Site : PHILIPS EMI 3M open site
Condition : FCC CLASS-B 3m FCC-3M-FACTOR HORIZONTAL
EUT : PHILIPS 200P3 Serial No:TY0210653
Power : 120-240VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. W/O VIDEO 2ND MODEL LG PANEL,RUN
: IBM V1.8 FONT 16 "H" PATTERN.
: 3. AUDIO WITH HEADPHONE & MICROPHONE.
: 4. 1600x1200/75Hz 93.8KHz MODE WITH
: COMPAQ ENC/P866/20E/8/128A TAI PC,
: ATI RADEON VE DDR VIDEO CARD &
: D-SUB I/F CABLE WAS TESTED.

Frequency	Peak	Reading	QP reading	Limit	Factor	Emission Level	Over Limit	Remark
HORIZONTAL								
MHz		dBuV	dBuV	dBuV/m	dB/m	dBuV/m	dBuV/m	
62.070		16.20	---	40.00	9.92	26.12	-13.88	Peak
75.620		17.30	---	40.00	10.23	27.53	-12.47	Peak
108.630		23.90	---	43.50	11.85	35.75	-7.75	Peak
116.340		20.40	---	43.50	12.23	32.63	-10.87	Peak
123.600		17.50	---	43.50	12.47	29.97	-13.53	Peak
139.160		16.30	---	43.50	13.04	29.34	-14.16	Peak
185.120		13.50	---	43.50	14.91	28.41	-15.09	Peak
248.190		14.90	---	46.00	20.37	35.27	-10.73	Peak
303.350		15.80	---	46.00	16.55	32.35	-13.65	Peak
310.240		17.60	---	46.00	16.69	34.29	-11.71	Peak

Remarks: 1. All Readings are Peak & Quasi-peak values.
2. Emission Level (dBuV/m) = Factor (dB/m) + Meter Reading (dBuV/m)
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB)



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Frequency	Peak Reading	QP reading	Limit	Factor	Emission Level	Over Limit	Remark
HORIZONTAL							
MHz	dBuV	dBuV	dBuV/m	dB/m	dBuV/m	dBuV/m	
324.870	14.00	---	46.00	16.99	30.99	-15.01	Peak
334.300	15.20	---	46.00	17.20	32.40	-13.60	Peak
343.120	15.00	---	46.00	17.37	32.37	-13.63	Peak
357.690	15.30	---	46.00	17.65	32.95	-13.05	Peak
372.280	15.90	---	46.00	17.91	33.81	-12.19	Peak
386.900	14.40	---	46.00	18.17	32.57	-13.43	Peak
405.920	16.70	---	46.00	18.48	35.18	-10.82	Peak
434.340	15.40	---	46.00	18.87	34.27	-11.73	Peak
483.530	17.10	---	46.00	19.51	36.61	-9.39	Peak
496.390	14.60	---	46.00	19.66	34.26	-11.74	Peak
511.000	15.50	---	46.00	19.90	35.40	-10.60	Peak
525.570	13.70	---	46.00	20.13	33.83	-12.17	Peak
558.430	14.30	---	46.00	20.62	34.92	-11.08	Peak
620.480	17.20	---	46.00	21.72	38.92	-7.08	Peak
682.540	15.80	---	46.00	23.13	38.93	-7.07	Peak

- Remarks: 1. All Readings are Peak & Quasi-peak values.
2. Emission Level (dBuV/m) = Factor (dB/m) + Meter Reading (dBuV/m)
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB)

Tested by : C C.Wu

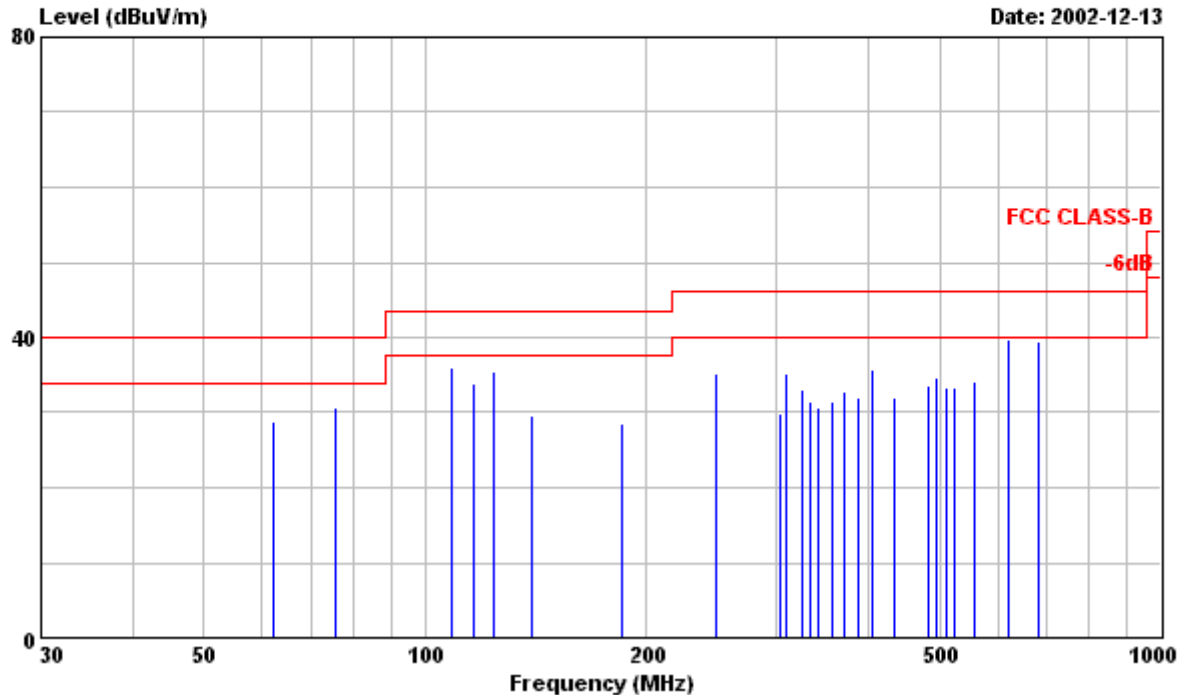


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Data#: 4

File#: C:\Program Files\es\EMIO2-066-R.emi



Site : PHILIPS EMI 3M open site
Condition : FCC CLASS-B 3m FCC-3M-FACTOR VERTICAL
EUT : PHILIPS 200P3 Serial No:TY0210653
Power : 120-240VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. W/O VIDEO 2ND MODEL LG PANEL,RUN
: IBM V1.8 FONT 16 "H" PATTERN.
: 3. AUDIO WITH HEADPHONE & MICROPHONE.
: 4. 1600x1200/75Hz 93.8KHz MODE WITH
: COMPAQ ENC/P866/20E/8/128A TAI PC,
: ATI RADEON VE DDR VIDEO CARD &
: D-SUB I/F CABLE WAS TESTED.

Frequency	Peak	Reading	QP reading	Limit	Factor	Emission Level	Over Limit	Remark
MHz		dBuV	dBuV	dBuV/m	dB/m	dBuV/m	dBuV/m	
62.070		18.90	---	40.00	9.92	28.82	-11.18	Peak
75.620		20.50	---	40.00	10.23	30.73	-9.27	Peak
108.630		24.20	---	43.50	11.85	36.05	-7.45	Peak
116.340		21.70	---	43.50	12.23	33.93	-9.57	Peak
123.600		23.00	---	43.50	12.47	35.47	-8.03	Peak
139.160		16.50	---	43.50	13.04	29.54	-13.96	Peak
185.120		13.70	---	43.50	14.91	28.61	-14.89	Peak
248.190		14.90	---	46.00	20.37	35.27	-10.73	Peak
303.350		13.30	---	46.00	16.55	29.85	-16.15	Peak
310.240		18.40	---	46.00	16.69	35.09	-10.91	Peak

Remarks: 1. All Readings are Peak & Quasi-peak values.
2. Emission Level (dBuV/m) = Factor (dB/m) + Meter Reading (dBuV/m)
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB)



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Frequency	Peak Reading	QP reading	Limit	Factor	Emission Level	Over Limit	Remark
					VERTICAL		
MHz	dBuV	dBuV	dBuV/m	dB/m	dBuV/m	dBuV/m	
324.870	16.20	---	46.00	16.99	33.19	-12.81	Peak
334.300	14.30	---	46.00	17.20	31.50	-14.50	Peak
343.120	13.40	---	46.00	17.37	30.77	-15.23	Peak
357.690	13.70	---	46.00	17.65	31.35	-14.65	Peak
372.280	14.90	---	46.00	17.91	32.81	-13.19	Peak
386.900	13.80	---	46.00	18.17	31.97	-14.03	Peak
405.920	17.20	---	46.00	18.48	35.68	-10.32	Peak
434.340	13.20	---	46.00	18.87	32.07	-13.93	Peak
483.530	14.00	---	46.00	19.51	33.51	-12.49	Peak
496.390	14.90	---	46.00	19.66	34.56	-11.44	Peak
511.000	13.50	---	46.00	19.90	33.40	-12.60	Peak
525.570	13.20	---	46.00	20.13	33.33	-12.67	Peak
558.430	13.80	---	46.00	20.62	34.42	-11.58	Peak
620.480	17.90	---	46.00	21.72	39.62	-6.38	Peak
682.540	16.40	---	46.00	23.13	39.53	-6.47	Peak

- Remarks: 1. All Readings are Peak & Quasi-peak values.
2. Emission Level (dBuV/m) = Factor (dB/m) + Meter Reading (dBuV/m)
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB)

Tested by : C C.Wu

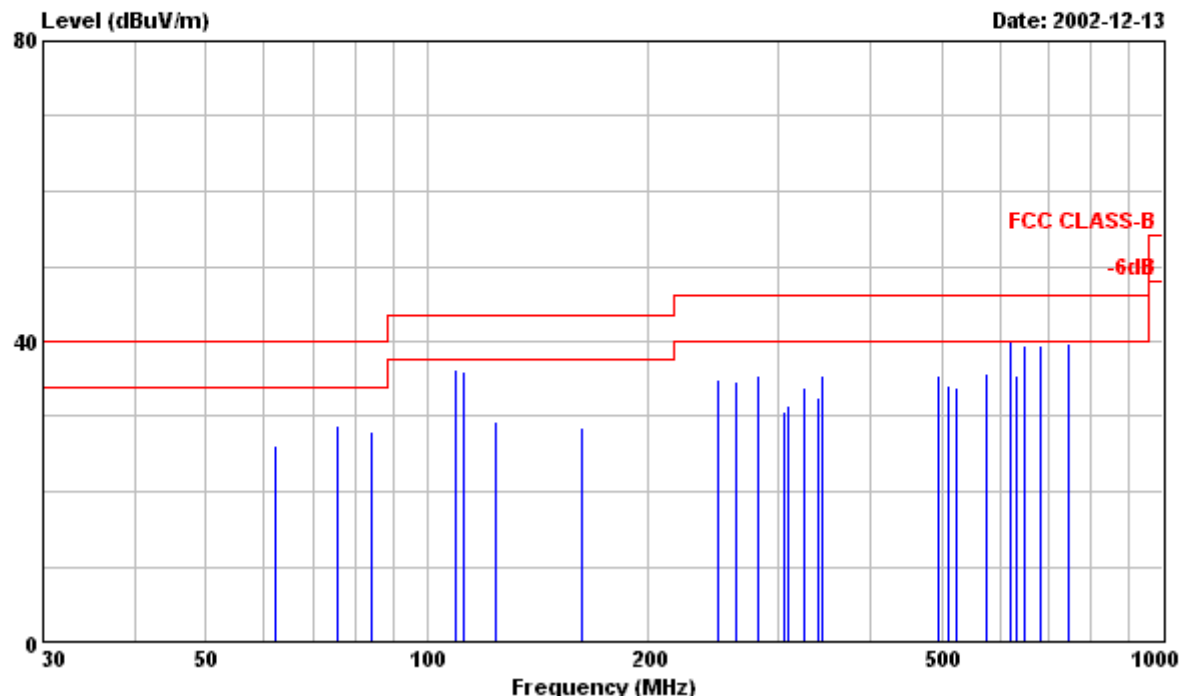


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Data#: 5

File#: C:\Program Files\em3\EMI02-066-R.emi



Site : PHILIPS EMI 3M open site
Condition : FCC CLASS-B 3m FCC-3M-FACTOR HORIZONTAL
EUT : PHILIPS 200P3 Serial No:TY0210653
Power : 120-240VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. W/O VIDEO 2ND MODEL LG PANEL, RUN
: IBM V1.8 FONT 16 "H" PATTERN.
: 3. AUDIO WITH HEADPHONE & MICROPHONE.
: 4. 1600x1200/60Hz 75KHz MODE WITH
: COMPAQ ENC/P866/20E/8/128A TAI PC,
: ATI RADEON VE DDR VIDEO CARD &
: DVI I/F CABLE WAS TESTED.

Frequency Peak Reading QP reading Limit Factor Emission Level Over Limit Remark
HORIZONTAL

MHz	dBuV	dBuV	dBuV/m	dB/m	dBuV/m	dBuV/m	
62.060	16.20	---	40.00	9.92	26.12	-13.88	Peak
75.620	18.60	---	40.00	10.23	28.83	-11.17	Peak
83.760	17.50	---	40.00	10.60	28.10	-11.90	Peak
109.530	24.40	---	43.50	11.89	36.29	-7.21	Peak
111.960	23.90	---	43.50	12.02	35.92	-7.58	Peak
124.110	16.80	---	43.50	12.48	29.28	-14.22	Peak
162.240	14.90	---	43.50	13.76	28.66	-14.84	Peak
248.200	14.50	---	46.00	20.37	34.87	-11.13	Peak
262.440	13.40	---	46.00	21.23	34.63	-11.37	Peak
281.530	13.10	---	46.00	22.27	35.37	-10.63	Peak

Remarks: 1. All Readings are Peak & Quasi-peak values.
2. Emission Level (dBuV/m) = Factor (dB/m) + Meter Reading (dBuV/m)
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB)



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Frequency	Peak Reading	QP reading	Limit	Factor	Emission Level	Over Limit	Remark
HORIZONTAL							
MHz	dBuV	dBuV	dBuV/m	dB/m	dBuV/m	dBuV/m	
305.390	14.00	---	46.00	16.59	30.59	-15.41	Peak
310.240	14.80	---	46.00	16.69	31.49	-14.51	Peak
324.470	16.90	---	46.00	16.99	33.89	-12.11	Peak
324.860	14.60	---	46.00	16.99	31.59	-14.41	Peak
339.430	15.30	---	46.00	17.30	32.60	-13.40	Peak
343.560	18.20	---	46.00	17.37	35.57	-10.43	Peak
496.390	15.90	---	46.00	19.66	35.56	-10.44	Peak
511.000	14.10	---	46.00	19.90	34.00	-12.00	Peak
525.560	13.70	---	46.00	20.13	33.83	-12.17	Peak
576.810	14.80	---	46.00	20.88	35.68	-10.32	Peak
620.480	---	16.25	46.00	21.72	37.97	-8.03	QP
! 620.480	18.30	---	46.00	21.72	40.02	-5.98	Peak
631.760	13.60	---	46.00	21.98	35.58	-10.42	Peak
648.920	17.00	---	46.00	22.40	39.40	-6.60	Peak
682.530	16.30	---	46.00	23.13	39.43	-6.57	Peak
744.570	15.70	---	46.00	24.12	39.82	-6.18	Peak

Remarks: 1. All Readings are Peak & Quasi-peak values.

2. Emission Level (dBuV/m) = Factor (dB/m) + Meter Reading (dBuV/m)

3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB)

Tested by : C C.Wu

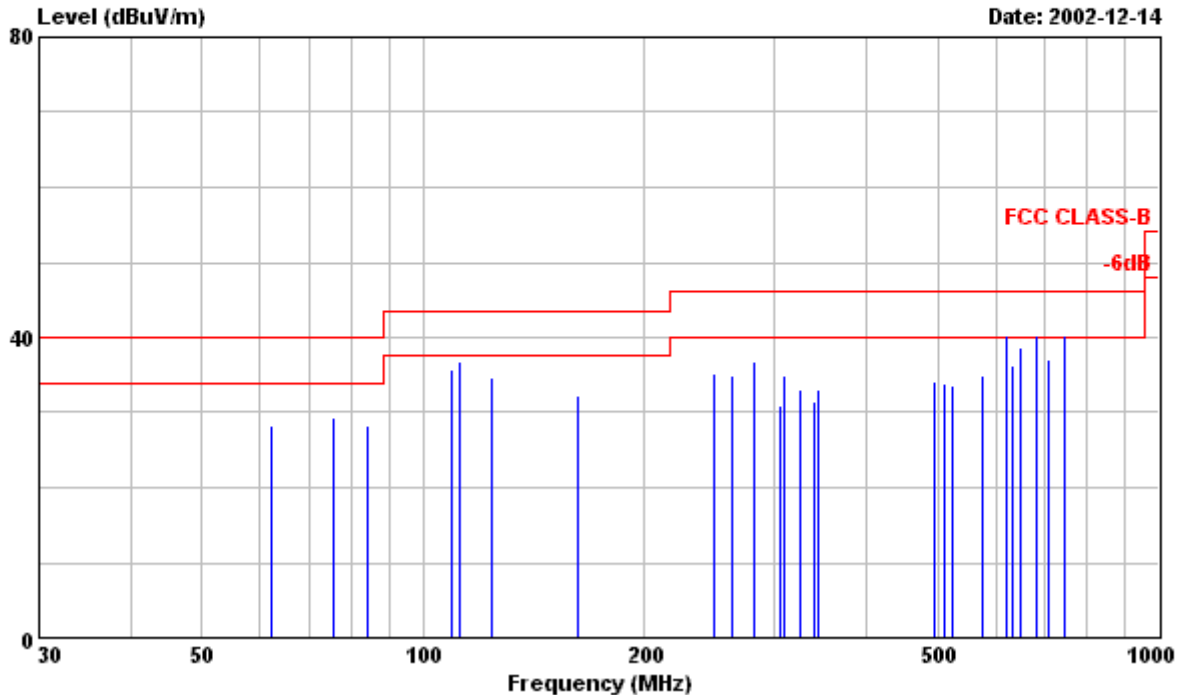


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Data#: 6

File#: C:\Program Files\es\EMIO2-066-R.emi



Site : PHILIPS EMI 3M open site
Condition : FCC CLASS-B 3m FCC-3M-FACTOR VERTICAL
EUT : PHILIPS 200P3 Serial No:TY0210653
Power : 120-240VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. W/O VIDEO 2ND MODEL LG PANEL,RUN
: IBM V1.8 FONT 16 "H" PATTERN.
: 3. AUDIO WITH HEADPHONE & MICROPHONE.
: 4. 1600x1200/60Hz 75KHz MODE WITH
: COMPAQ ENC/P866/20E/8/128A TAI PC,
: ATI RADEON VE DDR VIDEO CARD &
: DVI I/F CABLE WAS TESTED.

Frequency	Peak	Reading	QP reading	Limit	Factor	Emission Level	Over Limit	Remark
MHz		dBuV	dBuV	dBuV/m	dB/m	dBuV/m	dBuV/m	
62.060		18.30	---	40.00	9.92	28.22	-11.78	Peak
75.620		19.10	---	40.00	10.23	29.33	-10.67	Peak
83.760		17.80	---	40.00	10.60	28.40	-11.60	Peak
109.530		23.90	---	43.50	11.89	35.79	-7.71	Peak
111.960		24.70	---	43.50	12.02	36.72	-6.78	Peak
124.110		22.10	---	43.50	12.48	34.58	-8.92	Peak
162.240		18.39	---	43.50	13.76	32.15	-11.35	Peak
248.200		14.70	---	46.00	20.37	35.07	-10.93	Peak
262.440		13.80	---	46.00	21.23	35.03	-10.97	Peak
281.530		14.60	---	46.00	22.27	36.87	-9.13	Peak

Remarks: 1. All Readings are Peak & Quasi-peak values.
2. Emission Level (dBuV/m) = Factor (dB/m) + Meter Reading (dBuV/m)
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB)



PHILIPS

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Frequency	Peak Reading	QP reading	Limit	Factor	Emission Level	Over Limit	Remark
MHz	dBuV	dBuV	dBuV/m	dB/m	VERTICAL dBuV/m	dBuV/m	
305.390	14.30	---	46.00	16.59	30.89	-15.11	Peak
310.240	18.20	---	46.00	16.69	34.89	-11.11	Peak
324.860	16.20	---	46.00	16.99	33.19	-12.81	Peak
339.430	14.30	---	46.00	17.30	31.60	-14.40	Peak
343.560	15.80	---	46.00	17.37	33.17	-12.83	Peak
496.390	14.60	---	46.00	19.66	34.26	-11.74	Peak
511.000	14.00	---	46.00	19.90	33.90	-12.10	Peak
525.560	13.60	---	46.00	20.13	33.73	-12.27	Peak
576.810	14.10	---	46.00	20.88	34.98	-11.02	Peak
620.480	---	16.51	46.00	21.72	38.23	-7.77	QP
! 620.480	18.60	---	46.00	21.72	40.32	-5.68	Peak
631.760	14.30	---	46.00	21.98	36.28	-9.72	Peak
648.920	16.30	---	46.00	22.40	38.70	-7.30	Peak
682.530	---	14.32	46.00	23.13	37.45	-8.55	QP
! 682.530	17.00	---	46.00	23.13	40.13	-5.87	Peak
706.190	13.40	---	46.00	23.60	37.00	-9.00	Peak
! 744.570	16.20	---	46.00	24.12	40.32	-5.68	Peak
744.570	---	13.23	46.00	24.12	37.35	-8.65	QP

- Remarks: 1. All Readings are Peak & Quasi-peak values.
2. Emission Level (dBuV/m) = Factor (dB/m) + Meter Reading (dBuV/m)
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB)

Tested by : C C.Wu

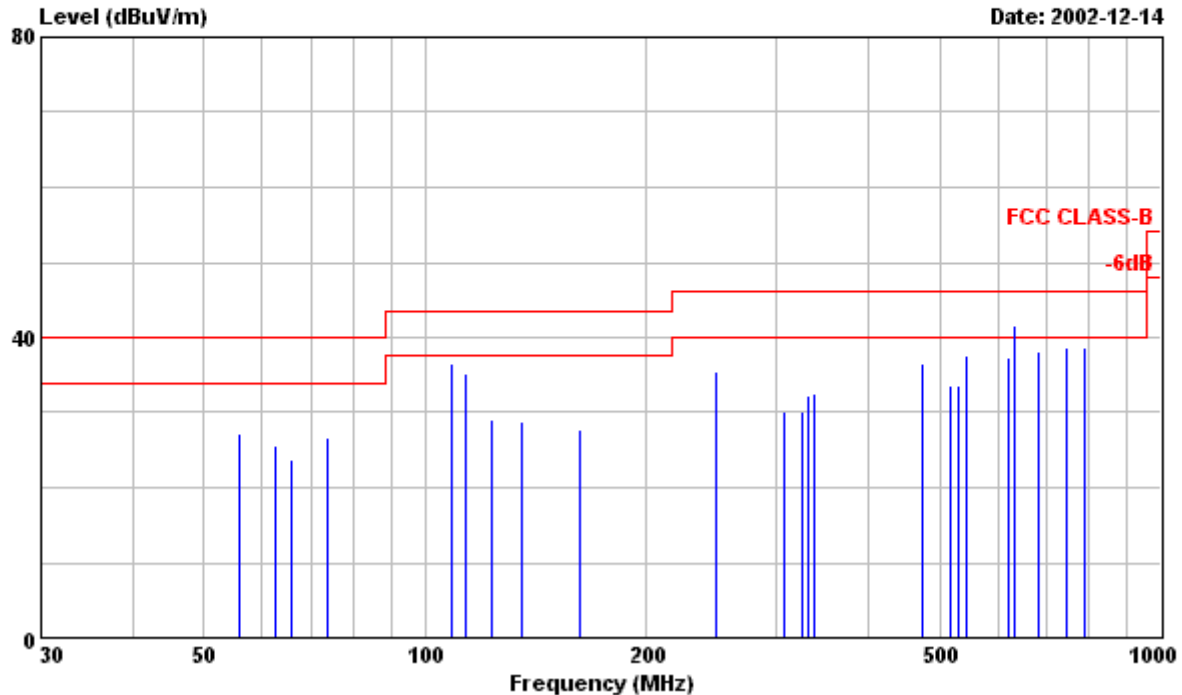


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Data#: 7

File#: C:\Program Files\em3\EMI02-066-R.emi



Site : PHILIPS EMI 3M open site
Condition : FCC CLASS-B 3m FCC-3M-FACTOR HORIZONTAL
EUT : PHILIPS 200P3 Serial No:TY0210653
Power : 120-240VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. W/O VIDEO 2ND MODEL LG PANEL,RUN
: IBM V1.8 FONT 14 "H" PATTERN.
: 3. AUDIO WITH HEADPHONE & MICROPHONE.
: 4. 1280x1024/85Hz 91.1KHz MODE WITH
: COMPAQ ENC/P866/2OE/8/128A TAI PC,
: ATI RADEON VE DDR VIDEO CARD &
: DVI I/F CABLE WAS TESTED.

Frequency Peak Reading QP reading Limit Factor Emission Level Over Limit Remark
HORIZONTAL

MHz	dBuV	dBuV	dBuV/m	dB/m	dBuV/m	dBuV/m	
55.720	16.90	---	40.00	10.26	27.16	-12.84	Peak
62.650	15.70	---	40.00	9.93	25.63	-14.37	Peak
65.760	13.80	---	40.00	9.96	23.76	-16.24	Peak
73.550	16.60	---	40.00	10.15	26.75	-13.25	Peak
108.560	24.60	---	43.50	11.85	36.45	-7.05	Peak
113.070	23.20	---	43.50	12.06	35.26	-8.24	Peak
123.130	16.70	---	43.50	12.46	29.16	-14.34	Peak
134.820	15.90	---	43.50	12.89	28.79	-14.71	Peak
162.240	14.09	---	43.50	13.76	27.85	-15.65	Peak
248.200	15.10	---	46.00	20.37	35.47	-10.53	Peak

Remarks: 1. All Readings are Peak & Quasi-peak values.
2. Emission Level (dBuV/m) = Factor (dB/m) + Meter Reading (dBuV/m)
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB)



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Frequency	Peak Reading	QP reading	Limit	Factor	Emission Level	Over Limit	Remark
HORIZONTAL							
MHz	dBuV	dBuV	dBuV/m	dB/m	dBuV/m	dBuV/m	
308.140	13.50	---	46.00	16.64	30.14	-15.86	Peak
324.420	13.10	---	46.00	16.99	30.09	-15.91	Peak
331.520	15.20	---	46.00	17.13	32.33	-13.67	Peak
338.020	15.30	---	46.00	17.27	32.57	-13.43	Peak
473.200	17.20	---	46.00	19.39	36.59	-9.41	Peak
517.660	13.60	---	46.00	19.99	33.59	-12.41	Peak
529.520	13.40	---	46.00	20.19	33.59	-12.41	Peak
543.290	17.20	---	46.00	20.39	37.59	-8.41	Peak
620.480	15.70	---	46.00	21.72	37.42	-8.58	Peak
! 630.930	19.50	---	46.00	21.98	41.48	-4.52	Peak
630.930	---	16.86	46.00	21.98	38.84	-7.16	QP
682.520	14.90	---	46.00	23.13	38.03	-7.97	Peak
744.560	14.60	---	46.00	24.12	38.72	-7.28	Peak
788.660	14.00	---	46.00	24.66	38.66	-7.34	Peak

- Remarks: 1. All Readings are Peak & Quasi-peak values.
2. Emission Level (dBuV/m) = Factor (dB/m) + Meter Reading (dBuV/m)
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB)

Tested by : C C.Wu

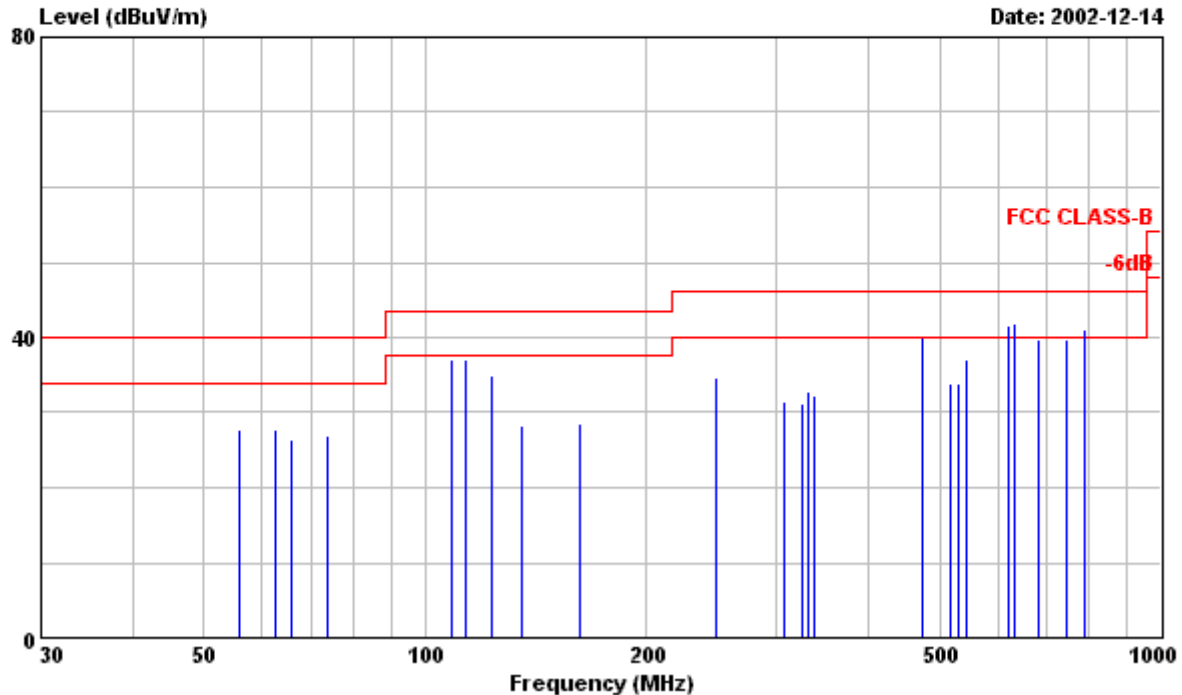


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Data#: 8

File#: C:\Program Files\em3\EMI02-066-R.emi



Site : PHILIPS EMI 3M open site
Condition : FCC CLASS-B 3m FCC-3M-FACTOR VERTICAL
EUT : PHILIPS 200P3 Serial No:TY0210653
Power : 120-240VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. W/O VIDEO 2ND MODEL LG PANEL,RUN
: IBM V1.8 FONT 14 "H" PATTERN.
: 3. AUDIO WITH HEADPHONE & MICROPHONE.
: 4. 1280x1024/85Hz 91.1KHz MODE WITH
: COMPAQ ENC/P866/20E/8/128A TAI PC,
: ATI RADEON VE DDR VIDEO CARD &
: DVI I/F CABLE WAS TESTED.

Frequency Peak Reading QP reading Limit Factor Emission Level Over Limit Remark
VERTICAL

MHz	dBuV	dBuV	dBuV/m	dB/m	dBuV/m	dBuV/m	
55.720	17.40	---	40.00	10.26	27.66	-12.34	Peak
62.650	17.80	---	40.00	9.93	27.73	-12.27	Peak
65.760	16.40	---	40.00	9.96	26.36	-13.64	Peak
73.550	16.70	---	40.00	10.15	26.85	-13.15	Peak
108.560	25.10	---	43.50	11.85	36.95	-6.55	Peak
113.070	24.90	---	43.50	12.06	36.96	-6.54	Peak
123.130	22.60	---	43.50	12.46	35.06	-8.44	Peak
134.820	15.29	---	43.50	12.89	28.18	-15.32	Peak
162.240	14.69	---	43.50	13.76	28.45	-15.05	Peak
248.200	14.20	---	46.00	20.37	34.57	-11.43	Peak

Remarks: 1. All Readings are Peak & Quasi-peak values.
2. Emission Level (dBuV/m) = Factor (dB/m) + Meter Reading (dBuV/m)
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB)



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Frequency	Peak Reading	QP reading	Limit	Factor	Emission Level	Over Limit	Remark
					VERTICAL		
MHz	dBuV	dBuV	dBuV/m	dB/m	dBuV/m	dBuV/m	
308.135	14.70	---	46.00	16.64	31.34	-14.66	Peak
324.420	14.10	---	46.00	16.99	31.09	-14.91	Peak
331.520	15.70	---	46.00	17.13	32.83	-13.17	Peak
338.020	15.00	---	46.00	17.27	32.27	-13.73	Peak
473.200	20.60	---	46.00	19.39	39.99	-6.01	Peak
517.660	13.90	---	46.00	19.99	33.89	-12.11	Peak
529.520	13.80	---	46.00	20.19	33.99	-12.01	Peak
543.290	16.70	---	46.00	20.39	37.09	-8.91	Peak
620.480	---	17.86	46.00	21.72	39.58	-6.42	QP
! 620.480	19.80	---	46.00	21.72	41.52	-4.48	Peak
630.930	---	17.34	46.00	21.98	39.32	-6.68	QP
! 630.930	19.90	---	46.00	21.98	41.88	-4.12	Peak
682.520	16.60	---	46.00	23.13	39.73	-6.27	Peak
744.560	15.70	---	46.00	24.12	39.82	-6.18	Peak
! 788.660	16.30	---	46.00	24.66	40.96	-5.04	Peak
788.660	---	14.13	46.00	24.66	38.79	-7.21	QP

- Remarks: 1. All Readings are Peak & Quasi-peak values.
2. Emission Level (dBuV/m) = Factor (dB/m) + Meter Reading (dBuV/m)
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB)

Tested by : C C.Wu