



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.: TYR87-2056 Date : 20 October, 2003 Page : Page 1 of 40
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. : A3KM121 Model Name : 200P4 Serial Number : TY0304314 Description : 20" SXGA LCD color monitor, Max. resolution 1600x1200/60Hz		
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 : 17 Oct. 2003 Date of performance of test : 17 Oct., 2003 to 19 Oct., 2003		
 C.C. Wu - EMC Test Engineer  Ronnie Yang - EMC Manager		

Philips Electronics Industries (Taiwan) Ltd

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Table of contents

1. Summary of test results.....	3
2. General information of EUT.....	4
3. Test equipment.....	5
4. Test configuration of EUT and peripherals.....	6
5. Test procedure.....	7
6. Measurement uncertainty.....	9
7. Conducted emissions test.....	10
8. Radiated emissions test.....	.23
9. Photographs of test set-up.....	.36
10. References.....	.40

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. : 200P4
 FCC ID : A3KM121
 Brand : PHILIPS

The color monitor automatically scans horizontal frequencies between 30KHz and 93KHz , 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 15 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	37.500	VESA	640x480	75.000
5	35.156	VESA	800x600	56.250
6	37.879	VESA	800x600	60.317
7	46.875	VESA	800x600	75.000
8	48.363	VESA	1024x768	60.004
9	60.023	VESA	1024x768	75.029
10	68.700	MACINTOSH	1152x870	75.000
11	63.981	VESA	1280x1024	60.020
12	79.976	VESA	1280x1024	75.025
13	75.0	VESA	1600x1200	60
14	33.75	HDTV	1080i (D-sub only)	60
15	45.0	HDTV	720p (D-sub only)	60

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	02/27/2003	02/27/2004
EMI Receiver	R & S ESVS30	841977/006	02/27/2003	02/27/2004
LISN	EMCO 3825/2	9311-2153	06/16/2003	06/16/2004
LISN	EMCO 3825/2	9311-2154	06/16/2003	06/16/2004
RF Cable	8-meter	N/A	08/21/2003	08/21/2004

- For Radiated Emissions Test:

Test Equipment	Model No.	Serial No.	Last Calibrate	Next Calibrate
Spectrum	HP8568B	2928A04640	09/23/2003	09/23/2004
RF Preselector	HP85685A	2620A00338	09/23/2003	09/23/2004
QP Adapter	HP85650A	2811A01324	09/23/2003	09/23/2004
EMI Receiver	R & S ESVS30	841977/006	02/27/2003	02/27/2004
Biconical Antenna	EMCO 3110B	3224	08/21/2003	08/21/2004
Log-Periodic Antenna	EMCO 3146A	1425	08/21/2003	08/21/2004
Turn Table	EMCO 1060	1068	08/21/2003	08/21/2004
Antenna Tower	EMCO 1050	1113	08/21/2003	08/21/2004
RF Cable	M17/75-RG214-NE	N/A	08/21/2003	08/21/2004

4. Test Configuration of EUT and Peripherals

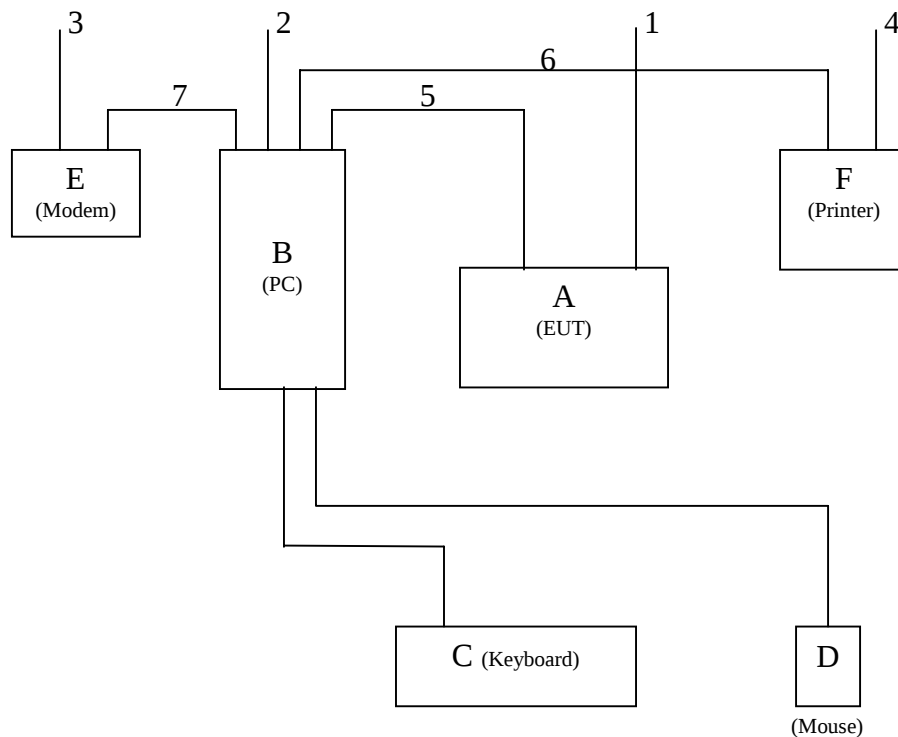
The system was configured for testing in a typical fashion (as a customer would normally use it) according to ANSI C63.4-1992, please see the photographs for detail. For system measurement, the EUT “200P4” were connected to:

	Description	Brand/ Model No.	Serial No.	FCC ID	Remark
A	Monitor	Philips 200P4	TY0304314	A3KM121	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

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Tel : 886-3-4549862 Fax : 886-3-4549887
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 **2 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.

Extra cables (Stereo audio, S-VHS video and AV cable) were use.

Tested and reported modes as following:

Test Item	File No.	Resolution	Frequencies	I/F Cable
Conducted	EMI03-038-C	1600x1200	75KHz/60Hz	D-sub & DVI
		1280x1024	91KHz/85Hz	D-sub
Radiated	EMI03-038-R	1600x1200	75KHz/60Hz	D-sub & DVI
		1280x1024	91KHz/85Hz	D-sub

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	: 17 Oct., 2003 to 19 Oct., 2003	
Test Engineer	: C.C.Wu	
For detail measurement results see next pages.		

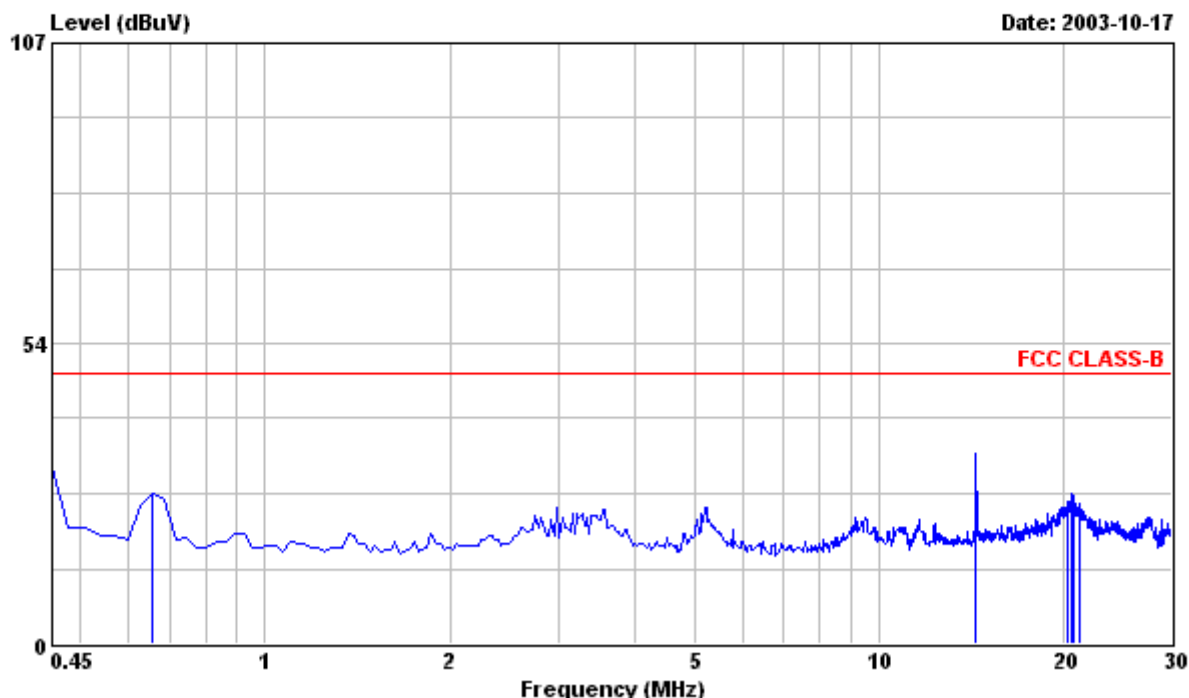


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Data#: 1

File#: C:\Program Files\em3\EMI03-038-C(200P4).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L1 LINE
EUT : PHILIPS 200P4 Serial No:TY0304314
Power : 120VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL LG PANEL,RUN IBM V1.8
: FONT 16 "H" PATTERN,D-SUB I/F CABLE.
: 3. EXTRA S-VIDEO,CVBS,AUDIO 2 (VIDEO) I/P
: CABLE WERE CONNECTED WITH 4 DUMMY
: LOAD & WITH HEADPHONE.
: 4. 1600x1200/60Hz 75KHz MODE WITH COMPAQ
: ENC/P866/20E/8/128A TAI PC,ATI RADEON
: VE DDR VIDEO CARD WAS TESTED.

Frequency	Peak Reading	QP Reading	Limit	Factor	Emission Level	Over Limit	Remark
LINE							
0.450	31.30	---	48.00	0.20	31.50	-16.50	Peak
0.657	26.40	---	48.00	0.29	26.69	-21.31	Peak
14.398	33.30	---	48.00	0.69	33.99	-14.01	Peak
20.367	24.50	---	48.00	0.81	25.31	-22.69	Peak
20.544	26.10	---	48.00	0.81	26.91	-21.09	Peak
20.662	24.81	---	48.00	0.81	25.62	-22.38	Peak
20.721	25.40	---	48.00	0.82	26.22	-21.78	Peak
21.312	24.30	---	48.00	0.83	25.13	-22.87	Peak

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

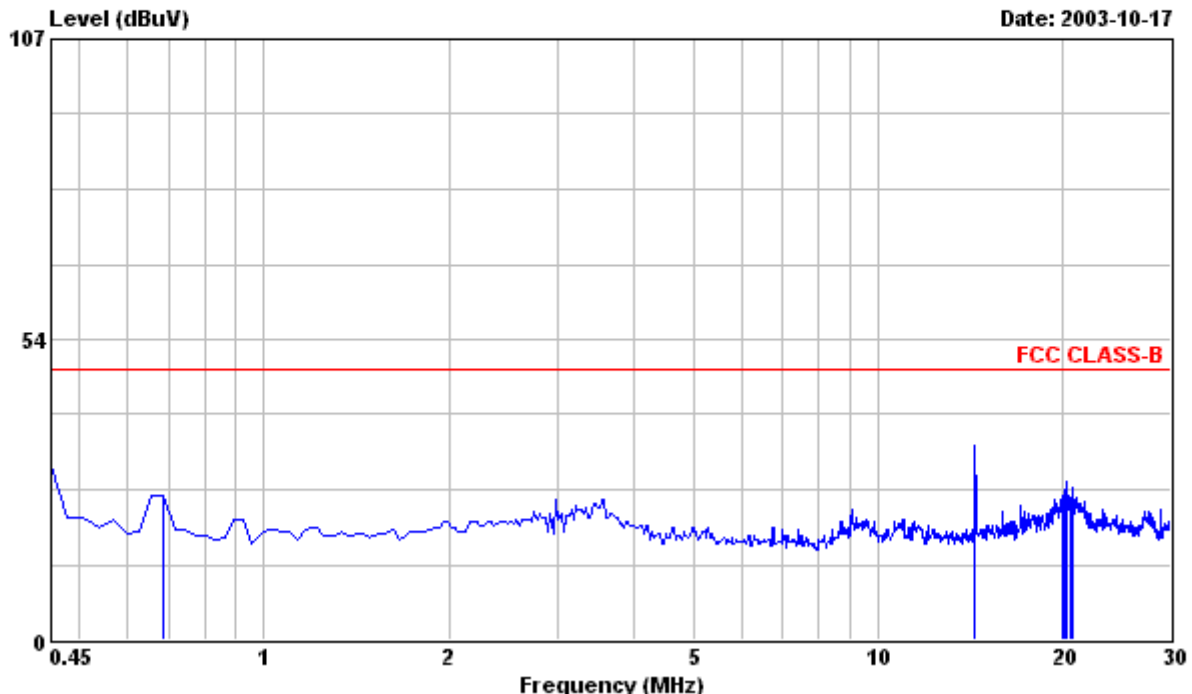


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Data#: 2

File#: C:\Program Files\em3\EMI03-038-C(200P4).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L2 NEUTRAL
EUT : PHILIPS 200P4 Serial No:TY0304314
Power : 120VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL LG PANEL,RUN IBM V1.8
: FONT 16 "H" PATTERN,D-SUB I/F CABLE.
: 3. EXTRA S-VIDEO,CVBS,AUDIO 2 (VIDEO) I/P
: CABLE WERE CONNECTED WITH 4 DUMMY
: LOAD & WITH HEADPHONE.
: 4. 1600x1200/60Hz 75KHz MODE WITH COMPAQ
: ENC/P866/2OE/8/128A TAI PC,ATI RADEON
: VE DDR VIDEO CARD WAS TESTED.

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

0.450	30.90	---	48.00	0.20	31.10	-16.90	Peak
0.686	25.30	---	48.00	0.31	25.61	-22.39	Peak
14.398	33.90	---	48.00	0.69	34.59	-13.41	Peak
20.012	24.80	---	48.00	0.90	25.70	-22.30	Peak
20.189	25.80	---	48.00	0.91	26.71	-21.29	Peak
20.367	27.10	---	48.00	0.91	28.01	-19.99	Peak
20.544	24.40	---	48.00	0.91	25.31	-22.69	Peak
20.721	26.20	---	48.00	0.92	27.12	-20.88	Peak

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

Tested by : C C.Wu

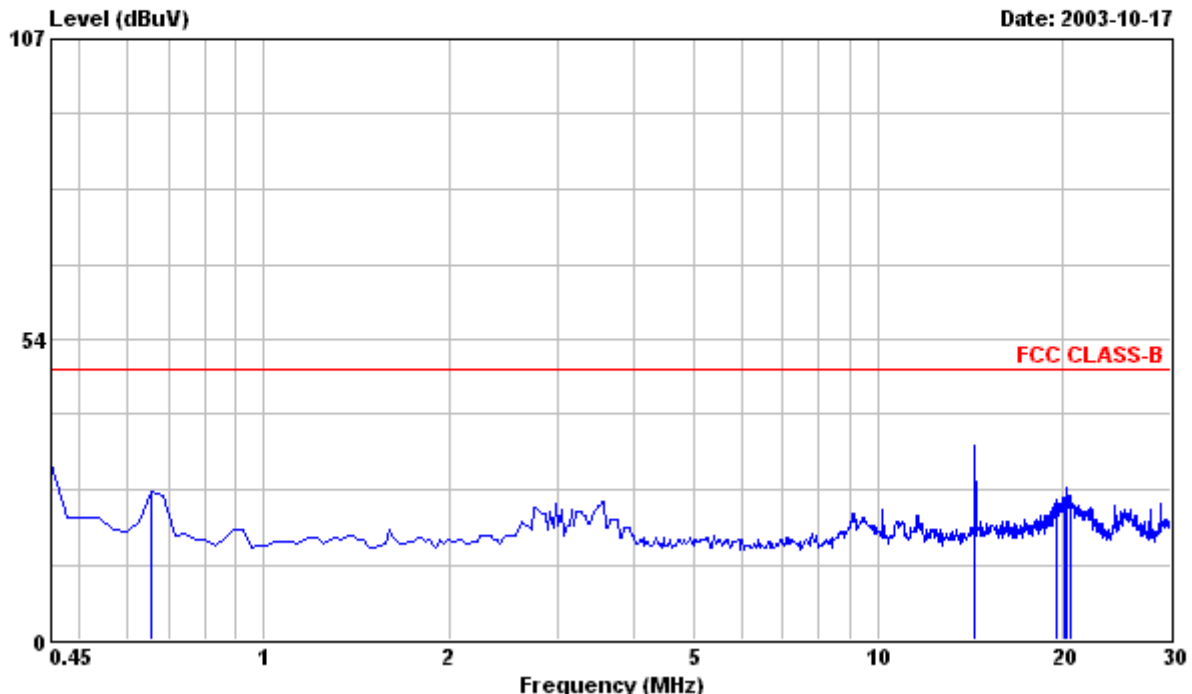


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Data#: 3

File#: C:\Program Files\em3\EMI03-038-C(200P4).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L1 LINE
EUT : PHILIPS 200P4 Serial No:TY0304314
Power : 220VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL LG PANEL,RUN IBM V1.8
: FONT 16 "H" PATTERN,D-SUB I/F CABLE.
: 3. EXTRA S-VIDEO,CVBS,AUDIO 2 (VIDEO) I/P
: CABLE WERE CONNECTED WITH 4 DUMMY
: LOAD & WITH HEADPHONE.
: 4. 1600x1200/60Hz 75KHz MODE WITH COMPAQ
: ENC/P866/2OE/8/128A TAI PC,ATI RADEON
: VE DDR VIDEO CARD WAS TESTED.

Frequency	Peak Reading	QP Reading	Limit	Factor	Emission Level	Over Limit	Remark
LINE							
0.450	31.20	---	48.00	0.20	31.40	-16.60	Peak
0.657	26.10	---	48.00	0.29	26.39	-21.61	Peak
14.398	34.00	---	48.00	0.69	34.69	-13.31	Peak
19.539	24.20	---	48.00	0.79	24.99	-23.01	Peak
20.071	24.60	---	48.00	0.80	25.40	-22.60	Peak
20.189	24.50	---	48.00	0.81	25.31	-22.69	Peak
20.367	26.30	---	48.00	0.81	27.11	-20.89	Peak
20.544	24.90	---	48.00	0.81	25.71	-22.29	Peak

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

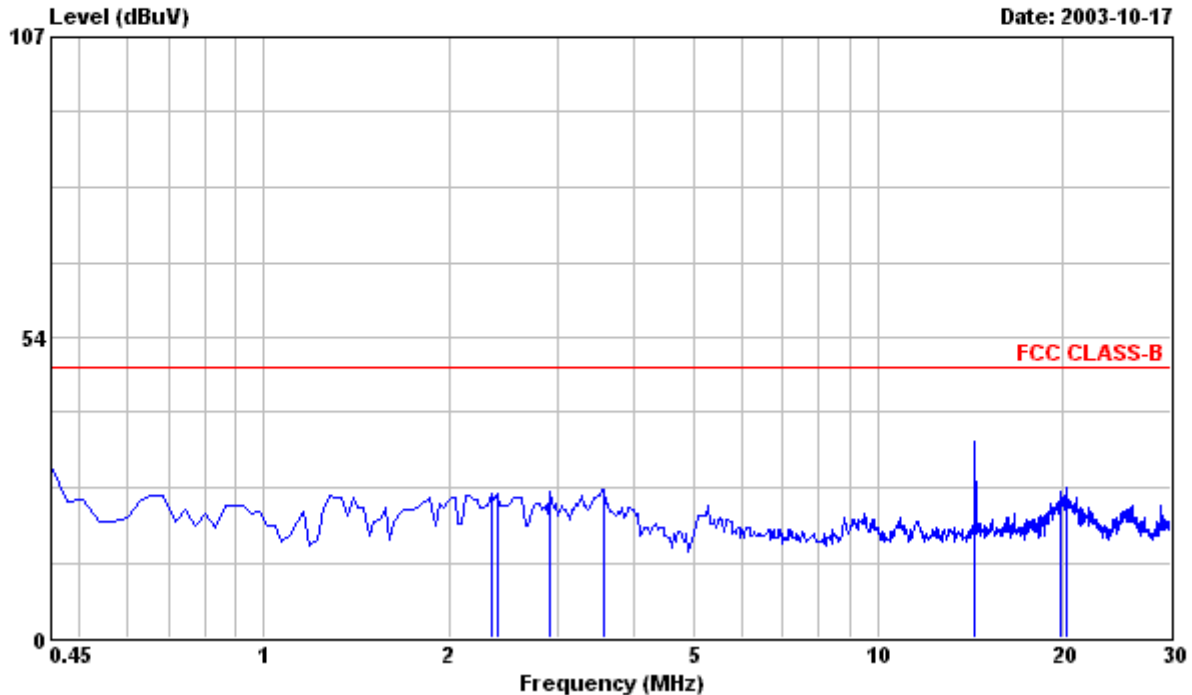


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Data#: 4

File#: C:\Program Files\em3\EMI03-038-C(200P4).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L2 NEUTRAL
EUT : PHILIPS 200P4 Serial No:TY0304314
Power : 220VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL LG PANEL,RUN IBM V1.8
: FONT 16 "H" PATTERN,D-SUB I/F CABLE.
: 3. EXTRA S-VIDEO,CVBS,AUDIO 2 (VIDEO) I/P
: CABLE WERE CONNECTED WITH 4 DUMMY
: LOAD & WITH HEADPHONE.
: 4. 1600x1200/60Hz 75KHz MODE WITH COMPAQ
: ENC/P866/2OE/8/128A TAI PC,ATI RADEON
: VE DDR VIDEO CARD WAS TESTED.

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

0.450	30.60	---	48.00	0.20	30.80	-17.20	Peak
2.341	25.20	---	48.00	0.40	25.60	-22.40	Peak
2.400	25.40	---	48.00	0.40	25.80	-22.20	Peak
2.932	25.50	---	48.00	0.40	25.90	-22.10	Peak
3.582	26.10	---	48.00	0.40	26.50	-21.50	Peak
14.398	34.10	---	48.00	0.69	34.79	-13.21	Peak
19.776	25.10	---	48.00	0.89	25.99	-22.01	Peak
20.367	25.70	---	48.00	0.91	26.61	-21.39	Peak

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

Tested by : C C.Wu

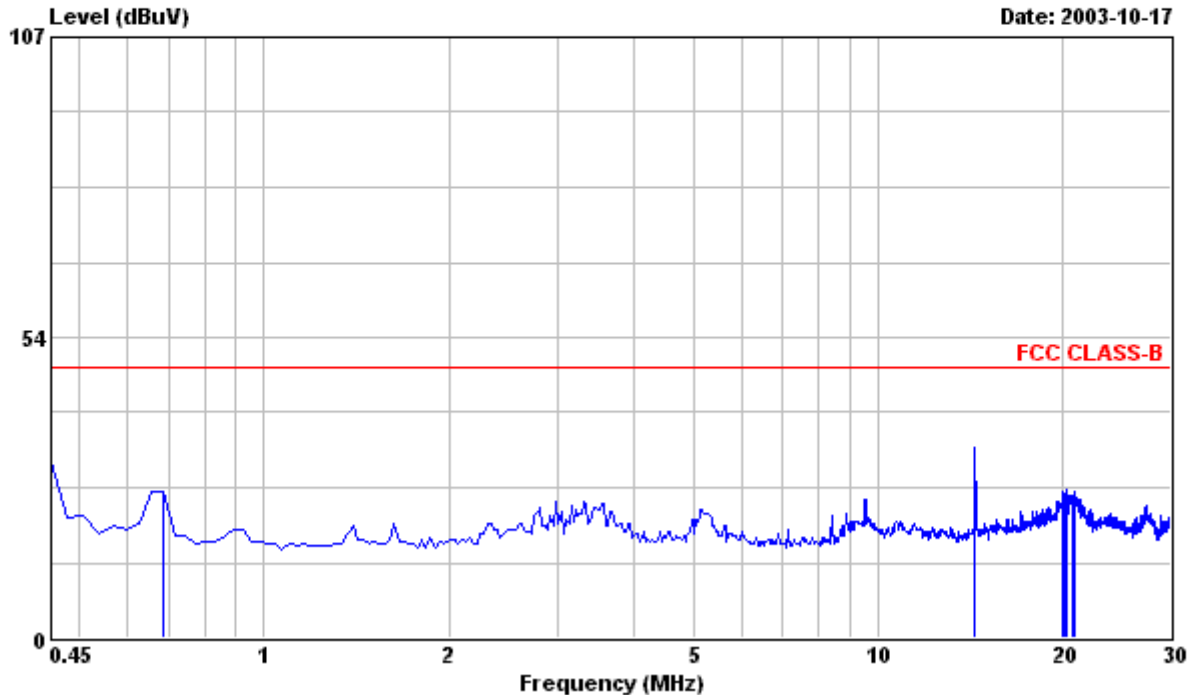


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Data#: 5

File#: C:\Program Files\em3\EMI03-038-C(200P4).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L1 LINE
EUT : PHILIPS 200P4 Serial No:TY0304314
Power : 120VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL LG PANEL,RUN IBM V1.8
: FONT 16 "H" PATTERN,D-SUB I/F CABLE.
: 3. EXTRA S-VIDEO,CVBS,AUDIO 2 (VIDEO) I/P
: CABLE WERE CONNECTED WITH 4 DUMMY
: LOAD & WITH HEADPHONE.
: 4. 1280x1024/85Hz 91KHz MODE WITH COMPAQ
: ENC/P866/2OE/8/128A TAI PC,ATI RADEON
: VE DDR VIDEO CARD WAS TESTED.

Frequency	Peak	Reading	QP	Reading	Limit	Factor	Emission Level	Over Limit	Remark
LINE									
0.450	31.30	---	48.00	0.20	31.50	-16.50	Peak		
0.686	25.60	---	48.00	0.31	25.91	-22.09	Peak		
14.398	33.30	---	48.00	0.69	33.99	-14.01	Peak		
20.012	25.30	---	48.00	0.80	26.10	-21.90	Peak		
20.189	24.70	---	48.00	0.81	25.51	-22.49	Peak		
20.367	25.70	---	48.00	0.81	26.51	-21.49	Peak		
20.780	24.60	---	48.00	0.82	25.42	-22.58	Peak		
20.899	25.10	---	48.00	0.82	25.92	-22.08	Peak		

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

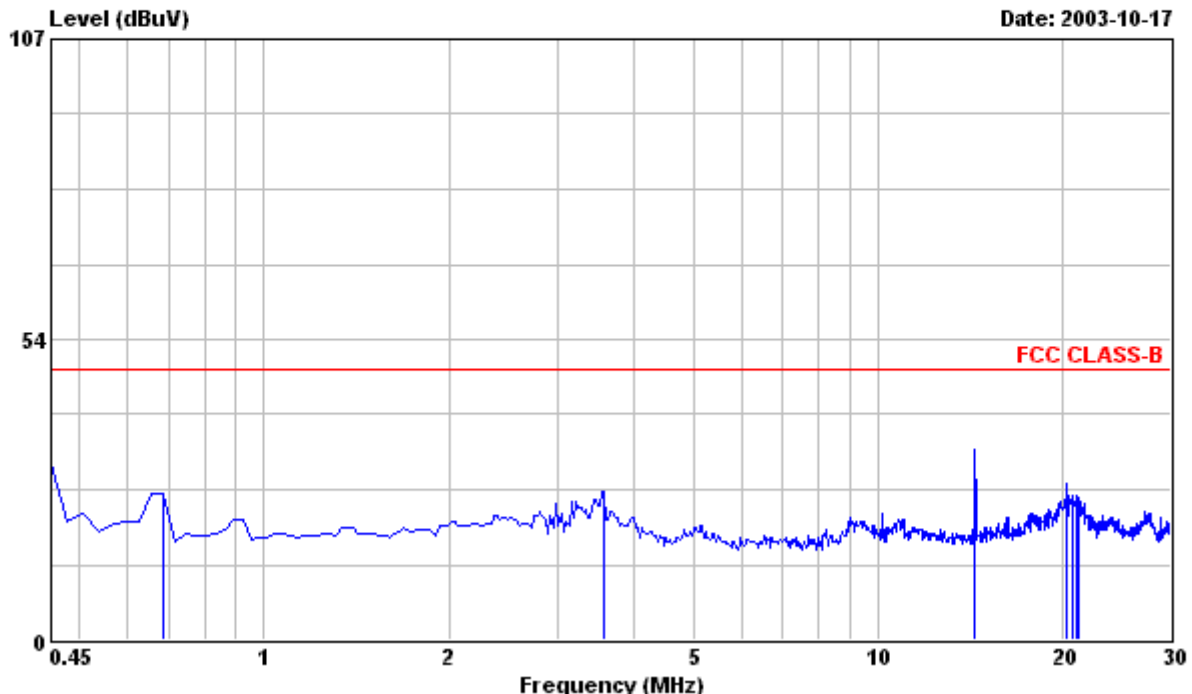


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Data#: 6

File#: C:\Program Files\em3\EMI03-038-C(200P4).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L2 NEUTRAL
EUT : PHILIPS 200P4 Serial No:TY0304314
Power : 120VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL LG PANEL,RUN IBM V1.8
: FONT 16 "H" PATTERN,D-SUB I/F CABLE.
: 3. EXTRA S-VIDEO,CVBS,AUDIO 2 (VIDEO) I/P
: CABLE WERE CONNECTED WITH 4 DUMMY
: LOAD & WITH HEADPHONE.
: 4. 1280x1024/85Hz 91KHz MODE WITH COMPAQ
: ENC/P866/2OE/8/128A TAI PC,ATI RADEON
: VE DDR VIDEO CARD WAS TESTED.

Frequency	Peak Reading	QP Reading	Limit	Factor	Emission Level	Over Limit	Remark
NEUTRAL							
0.450	31.30	---	48.00	0.20	31.50	-16.50	Peak
0.686	25.80	---	48.00	0.31	26.11	-21.89	Peak
3.582	26.00	---	48.00	0.40	26.40	-21.60	Peak
14.398	33.30	---	48.00	0.69	33.99	-14.01	Peak
20.367	26.80	---	48.00	0.91	27.71	-20.29	Peak
20.721	24.60	---	48.00	0.92	25.52	-22.48	Peak
21.076	24.70	---	48.00	0.92	25.62	-22.38	Peak
21.194	24.30	---	48.00	0.93	25.23	-22.77	Peak

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

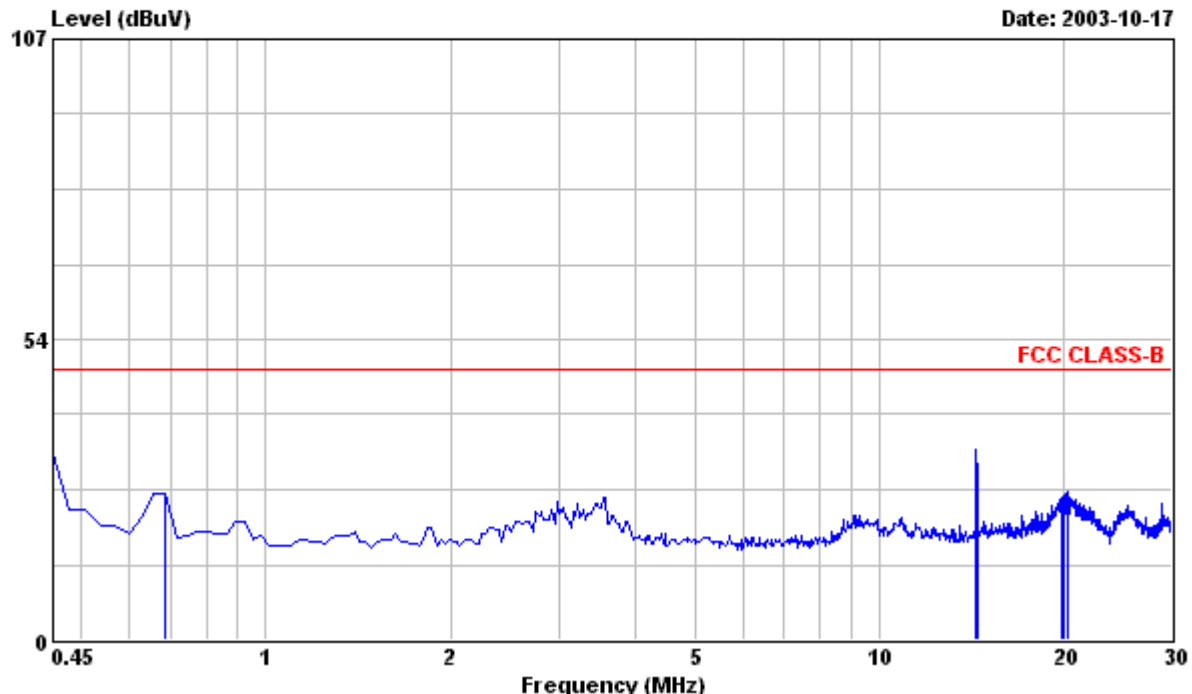


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Data#: 7

File#: C:\Program Files\em3\EMI03-038-C(200P4).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L1 LINE
EUT : PHILIPS 200P4 Serial No:TY0304314
Power : 220VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL LG PANEL,RUN IBM V1.8
: FONT 16 "H" PATTERN,D-SUB I/F CABLE.
: 3. EXTRA S-VIDEO,CVBS,AUDIO 2 (VIDEO) I/P
: CABLE WERE CONNECTED WITH 4 DUMMY
: LOAD & WITH HEADPHONE.
: 4. 1280x1024/85Hz 91KHz MODE WITH COMPAQ
: ENC/P866/20E/8/128A TAI PC,ATI RADEON
: VE DDR VIDEO CARD WAS TESTED.

Frequency	Peak Reading	QP Reading	Limit	Factor	Emission Level	Over Limit	Remark
LINE							
0.450	33.10	---	48.00	0.20	33.30	-14.70	Peak
0.686	25.70	---	48.00	0.31	26.01	-21.99	Peak
14.398	33.30	---	48.00	0.69	33.99	-14.01	Peak
14.457	28.50	---	48.00	0.69	29.19	-18.81	Peak
19.894	24.50	---	48.00	0.80	25.30	-22.70	Peak
20.012	24.70	---	48.00	0.80	25.50	-22.50	Peak
20.249	25.30	---	48.00	0.81	26.11	-21.89	Peak
20.367	25.50	---	48.00	0.81	26.31	-21.69	Peak

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

Tested by : C C.Wu

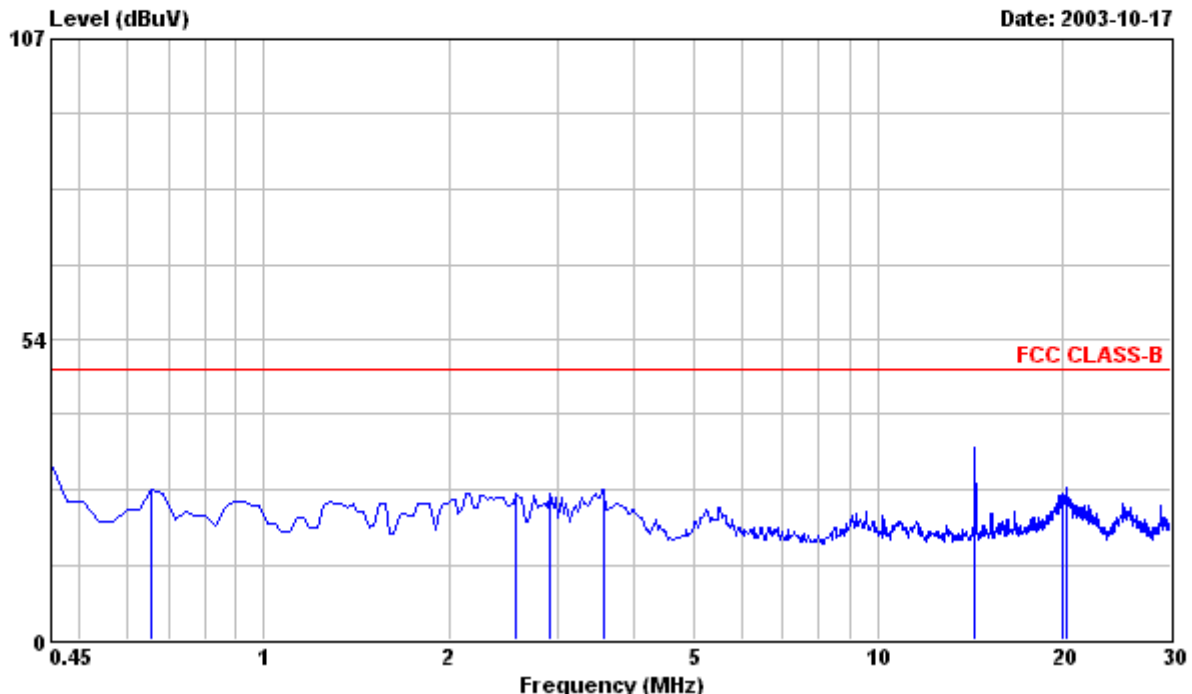


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Data#: 8

File#: C:\Program Files\em3\EMI03-038-C(200P4).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L2 NEUTRAL
EUT : PHILIPS 200P4 Serial No:TY0304314
Power : 220VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL LG PANEL,RUN IBM V1.8
: FONT 16 "H" PATTERN,D-SUB I/F CABLE.
: 3. EXTRA S-VIDEO,CVBS,AUDIO 2 (VIDEO) I/P
: CABLE WERE CONNECTED WITH 4 DUMMY
: LOAD & WITH HEADPHONE.
: 4. 1280x1024/85Hz 91KHz MODE WITH COMPAQ
: ENC/P866/2OE/8/128A TAI PC,ATI RADEON
: VE DDR VIDEO CARD WAS TESTED.

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

0.450	31.10	---	48.00	0.20	31.30	-16.70	Peak
0.657	26.60	---	48.00	0.29	26.89	-21.11	Peak
2.578	25.60	---	48.00	0.40	26.00	-22.00	Peak
2.932	25.60	---	48.00	0.40	26.00	-22.00	Peak
3.582	26.50	---	48.00	0.40	26.90	-21.10	Peak
14.398	33.60	---	48.00	0.69	34.29	-13.71	Peak
20.012	25.30	---	48.00	0.90	26.20	-21.80	Peak
20.367	26.20	---	48.00	0.91	27.11	-20.89	Peak

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

Tested by : C C.Wu

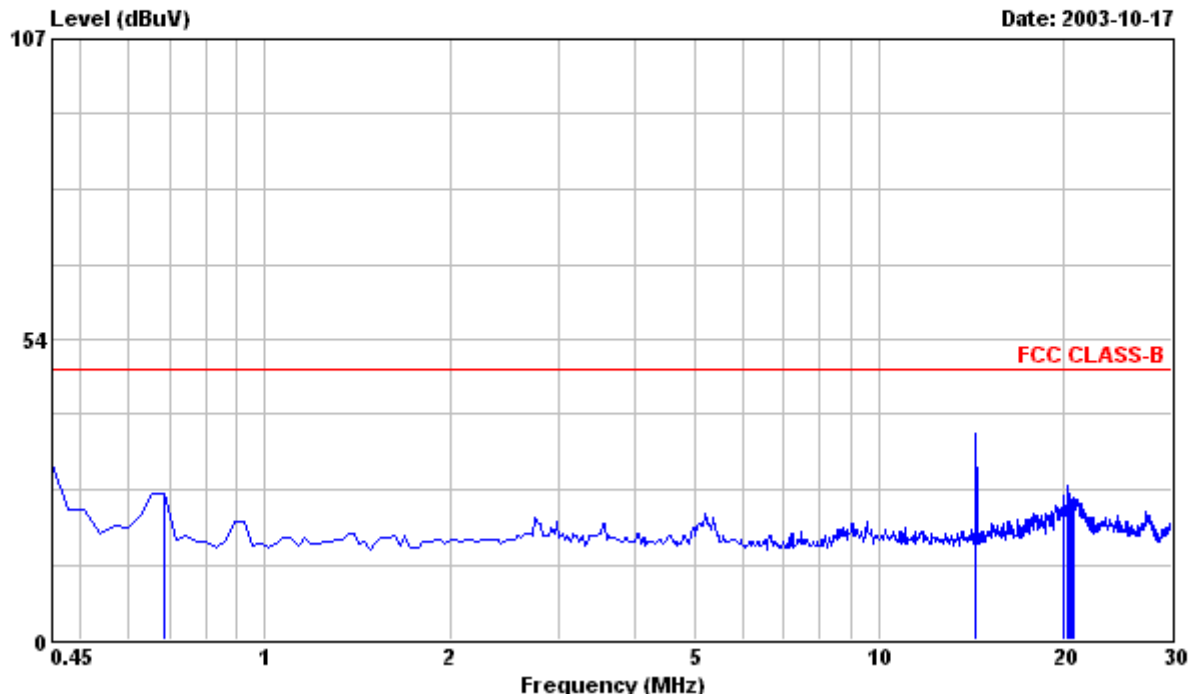


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Data#: 9

File#: C:\Program Files\em3\EMI03-038-C(200P4).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L1 LINE
EUT : PHILIPS 200P4 Serial No:TY0304314
Power : 120VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL LG PANEL,RUN IBM V1.8
: FONT 16 "H" PATTERN,DVI I/F CABLE.
: 3. EXTRA S-VIDEO,CVBS,AUDIO 2 (VIDEO) I/P
: CABLE WERE CONNECTED WITH 4 DUMMY
: LOAD & WITH HEADPHONE.
: 4. 1600x1200/60Hz 75KHz MODE WITH COMPAQ
: ENC/P866/2OE/8/128A TAI PC,ATI RADEON
: VE DDR VIDEO CARD WAS TESTED.

Frequency	Peak Reading	QP Reading	Limit	Factor	Emission Level	Over Limit	Remark
LINE							
0.450	31.30	---	48.00	0.20	31.50	-16.50	Peak
0.686	25.70	---	48.00	0.31	26.01	-21.99	Peak
14.398	36.00	---	48.00	0.69	36.69	-11.31	Peak
20.012	24.80	---	48.00	0.80	25.60	-22.40	Peak
20.367	26.50	---	48.00	0.81	27.31	-20.69	Peak
20.426	24.30	---	48.00	0.81	25.11	-22.89	Peak
20.603	24.30	---	48.00	0.81	25.11	-22.89	Peak
20.721	24.40	---	48.00	0.82	25.22	-22.78	Peak

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

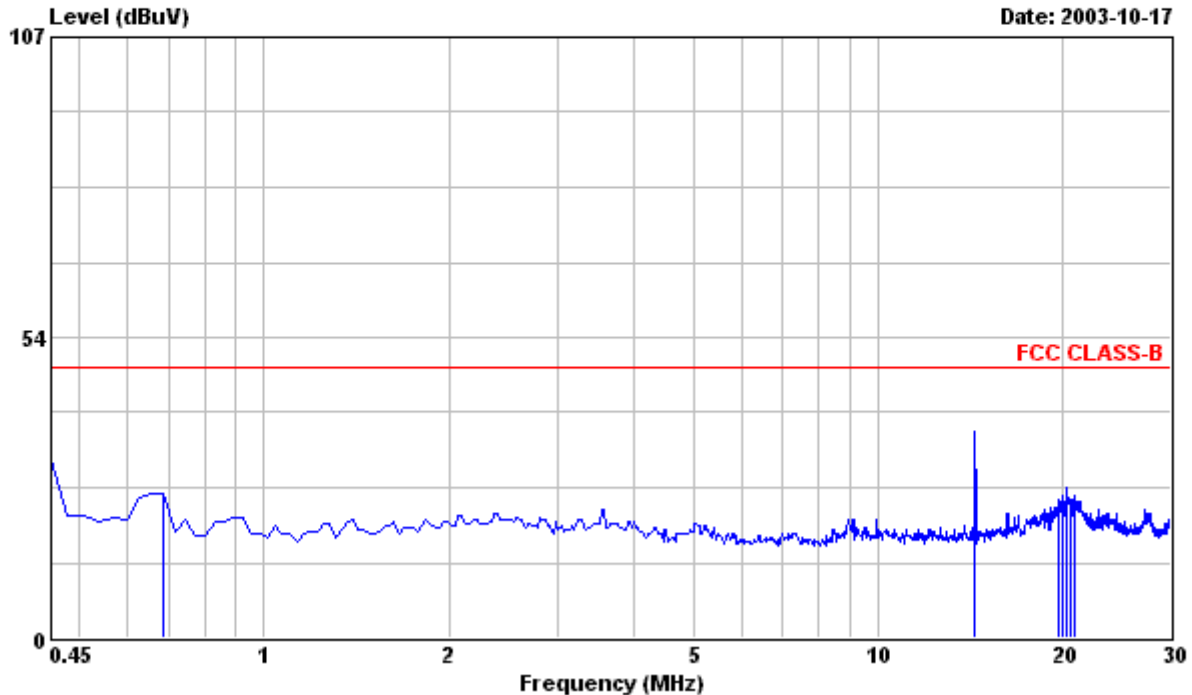


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Data#: 10

File#: C:\Program Files\em3\EMI03-038-C(200P4).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L2 NEUTRAL
EUT : PHILIPS 200P4 Serial No:TY0304314
Power : 120VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL LG PANEL,RUN IBM V1.8
: FONT 16 "H" PATTERN,DVI I/F CABLE.
: 3. EXTRA S-VIDEO,CVBS,AUDIO 2 (VIDEO) I/P
: CABLE WERE CONNECTED WITH 4 DUMMY
: LOAD & WITH HEADPHONE.
: 4. 1600x1200/60Hz 75KHz MODE WITH COMPAQ
: ENC/P866/2OE/8/128A TAI PC,ATI RADEON
: VE DDR VIDEO CARD WAS TESTED.

Frequency	Peak Reading	QP Reading	Limit	Factor	Emission Level	Over Limit	Remark
NEUTRAL							
0.450	31.70	---	48.00	0.20	31.90	-16.10	Peak
0.686	25.30	---	48.00	0.31	25.61	-22.39	Peak
14.398	36.20	---	48.00	0.69	36.89	-11.11	Peak
19.717	23.80	---	48.00	0.89	24.69	-23.31	Peak
20.012	24.50	---	48.00	0.90	25.40	-22.60	Peak
20.367	25.80	---	48.00	0.91	26.71	-21.29	Peak
20.544	23.80	---	48.00	0.91	24.71	-23.29	Peak
20.958	24.50	---	48.00	0.92	25.42	-22.58	Peak

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

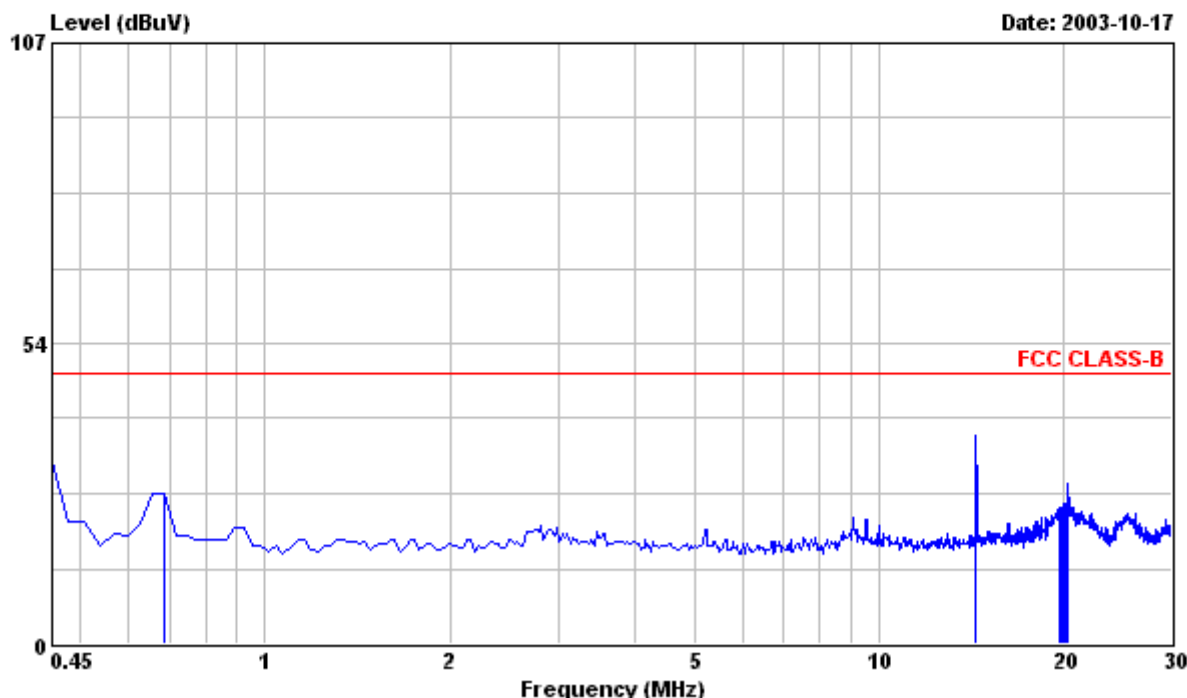


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Data#: 11

File#: C:\Program Files\em3\EMI03-038-C(200P4).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L1 LINE
EUT : PHILIPS 200P4 Serial No:TY0304314
Power : 220VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL LG PANEL,RUN IBM V1.8
: FONT 16 "H" PATTERN,DVI I/F CABLE.
: 3. EXTRA S-VIDEO,CVBS,AUDIO 2 (VIDEO) I/P
: CABLE WERE CONNECTED WITH 4 DUMMY
: LOAD & WITH HEADPHONE.
: 4. 1600x1200/60Hz 75KHz MODE WITH COMPAQ
: ENC/P866/2OE/8/128A TAI PC,ATI RADEON
: VE DDR VIDEO CARD WAS TESTED.

Frequency	Peak Reading	QP Reading	Limit	Factor	Emission Level	Over Limit	Remark
LINE							
0.450	32.10	---	48.00	0.20	32.30	-15.70	Peak
0.686	26.30	---	48.00	0.31	26.61	-21.39	Peak
14.398	36.30	---	48.00	0.69	36.99	-11.01	Peak
19.717	23.50	---	48.00	0.80	24.30	-23.70	Peak
19.835	23.50	---	48.00	0.80	24.30	-23.70	Peak
19.953	23.70	---	48.00	0.80	24.50	-23.50	Peak
20.071	24.00	---	48.00	0.80	24.80	-23.20	Peak
20.367	27.70	---	48.00	0.81	28.51	-19.49	Peak

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

Tested by : C C.Wu

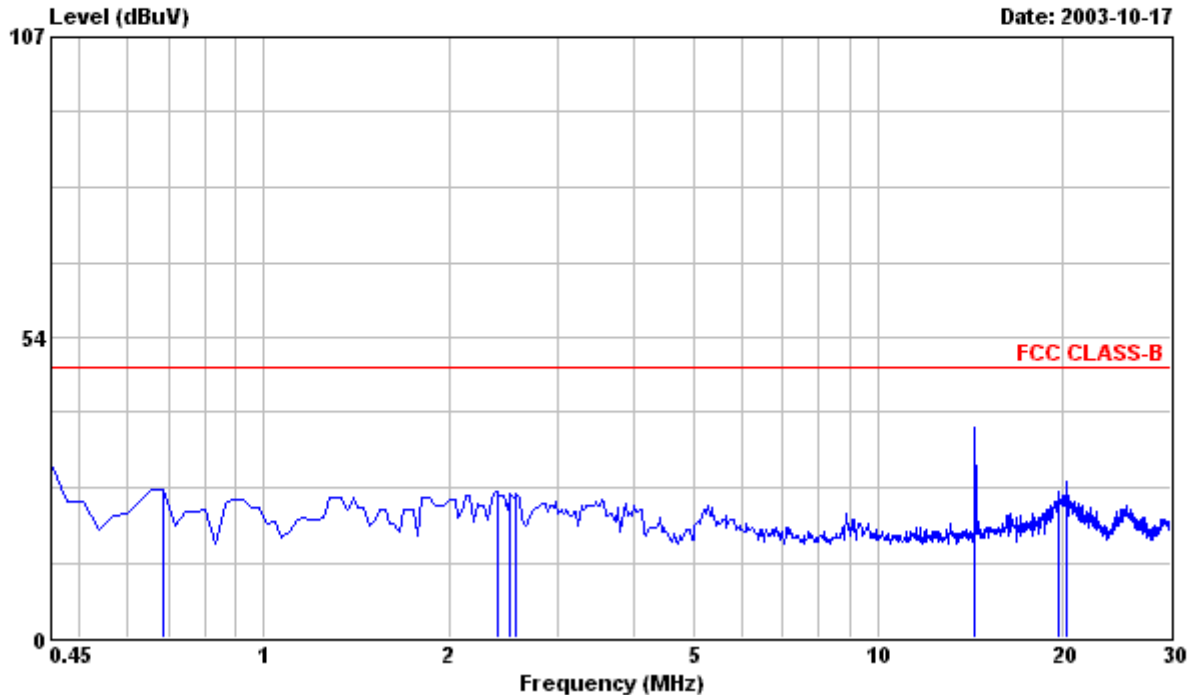


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Data#: 12

File#: C:\Program Files\em3\EMI03-038-C(200P4).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L2 NEUTRAL
EUT : PHILIPS 200P4 Serial No:TY0304314
Power : 220VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL LG PANEL,RUN IBM V1.8
: FONT 16 "H" PATTERN,DVI I/F CABLE.
: 3. EXTRA S-VIDEO,CVBS,AUDIO 2 (VIDEO) I/P
: CABLE WERE CONNECTED WITH 4 DUMMY
: LOAD & WITH HEADPHONE.
: 4. 1600x1200/60Hz 75KHz MODE WITH COMPAQ
: ENC/P866/2OE/8/128A TAI PC,ATI RADEON
: VE DDR VIDEO CARD WAS TESTED.

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

0.450	31.00	---	48.00	0.20	31.20	-16.80	Peak
0.686	26.10	---	48.00	0.31	26.41	-21.59	Peak
2.400	25.70	---	48.00	0.40	26.10	-21.90	Peak
2.519	25.20	---	48.00	0.40	25.60	-22.40	Peak
2.578	25.20	---	48.00	0.40	25.60	-22.40	Peak
14.398	36.90	---	48.00	0.69	37.59	-10.41	Peak
19.717	25.20	---	48.00	0.89	26.09	-21.91	Peak
20.367	26.80	---	48.00	0.91	27.71	-20.29	Peak

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

Tested by : C C.Wu

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	: 17 Oct., 2003 to 19 Oct., 2003 : C.C.Wu																			
For detail measurement results see next pages.																				

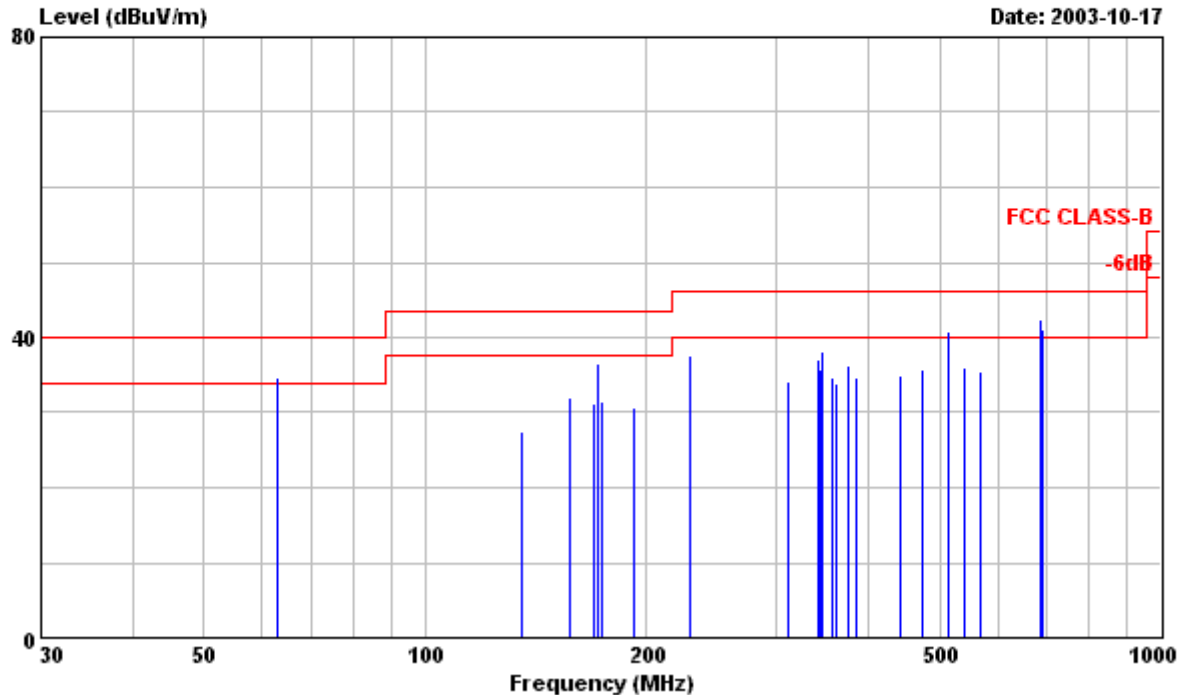


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Data#: 1

File#: C:\Program Files\em3\EMI03-038-R(200P4).emi



Site : PHILIPS EMI 3M open site
Condition : FCC CLASS-B 3m FCC-3M-FACTOR HORIZONTAL
EUT : PHILIPS 200P4 Serial No:TY0304314
Power : 120-240VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL LG PANEL,RUN IBM V1.8
: FONT 16 "H" PATTERN,D-SUB I/F CABLE.
: 3. EXTRA S-VIDEO,CVBS,AUDIO 2 (VIDEO) I/P
: CABLE WERE CONNECTED WITH 4 DUMMY
: LOAD & WITH HEADPHONE.
: 4. 1600x1200/60Hz 75KHz MODE WITH COMPAQ
: ENC/P866/2OE/8/128A TAI PC,ATI RADEON
: VE DDR VIDEO CARD 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	
! 62.740	24.70	---	40.00	9.93	34.63	-5.37	Peak
62.740	---	23.08	40.00	9.93	33.01	-6.99	QP
135.000	14.70	---	43.50	12.89	27.59	-15.91	Peak
156.830	18.40	---	43.50	13.61	32.01	-11.49	Peak
169.917	17.10	---	43.50	13.97	31.07	-12.43	Peak
171.820	22.50	---	43.50	14.02	36.52	-6.98	Peak
173.720	17.30	---	43.50	14.07	31.37	-12.13	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)



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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	
192.490	15.20	---	43.50	15.60	30.80	-12.70	Peak
229.500	18.70	---	46.00	18.86	37.56	-8.44	Peak
311.150	17.40	---	46.00	16.71	34.11	-11.89	Peak
341.730	19.70	---	46.00	17.34	37.04	-8.96	Peak
343.640	18.30	---	46.00	17.37	35.67	-10.33	Peak
345.548	20.60	---	46.00	17.41	38.01	-7.99	Peak
356.950	17.00	---	46.00	17.63	34.63	-11.37	Peak
362.650	16.10	---	46.00	17.74	33.84	-12.16	Peak
376.150	18.30	---	46.00	17.98	36.28	-9.72	Peak
385.480	16.60	---	46.00	18.14	34.74	-11.26	Peak
441.780	15.90	---	46.00	18.98	34.88	-11.12	Peak
475.520	16.40	---	46.00	19.41	35.81	-10.19	Peak
! 515.460	20.90	---	46.00	19.96	40.86	-5.14	Peak
515.460	---	18.91	46.00	19.96	38.87	-7.13	QP
540.030	15.70	---	46.00	20.33	36.03	-9.97	Peak
567.020	14.60	---	46.00	20.74	35.34	-10.66	Peak
685.370	---	16.69	46.00	23.19	39.88	-6.12	QP
! 685.370	19.30	---	46.00	23.19	42.49	-3.51	Peak
689.180	---	15.97	46.00	23.29	39.26	-6.74	QP
! 689.180	17.90	---	46.00	23.29	41.19	-4.81	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

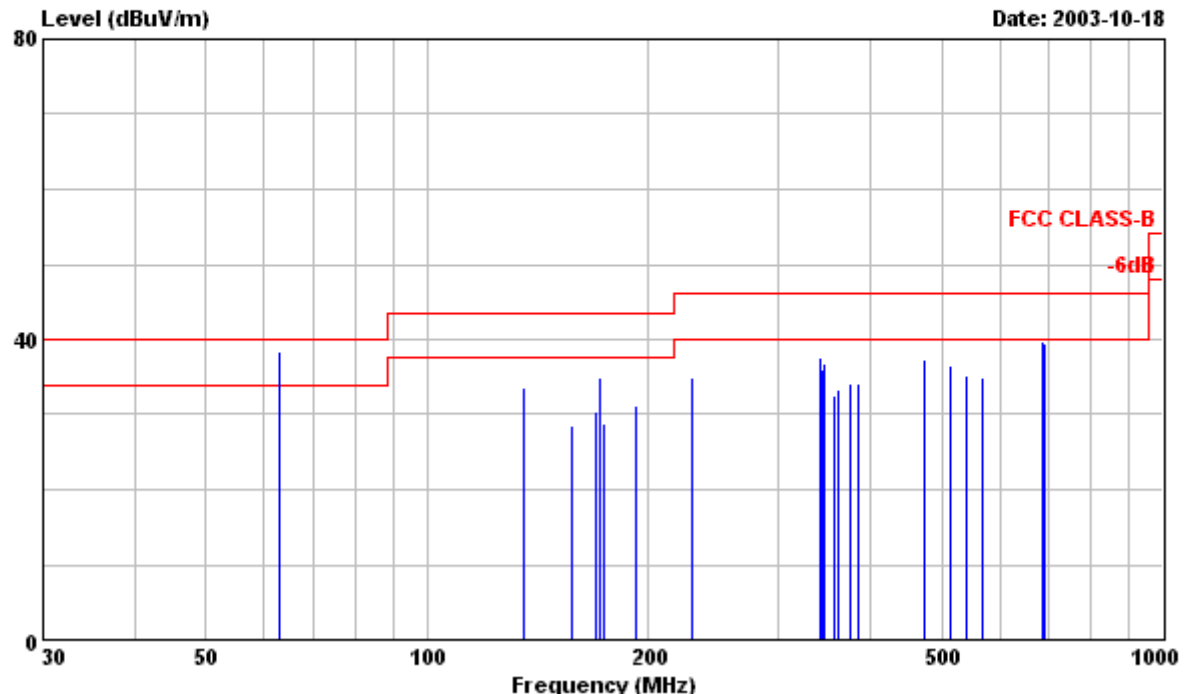


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Data#: 2

File#: C:\Program Files\em3\EMI03-038-R(200P4).emi



Site : PHILIPS EMI 3M open site
Condition : FCC CLASS-B 3m FCC-3M-FACTOR VERTICAL
EUT : PHILIPS 200P4 Serial No:TY0304314
Power : 120-240VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL LG PANEL,RUN IBM V1.8
: FONT 16 "H" PATTERN,D-SUB I/F CABLE.
: 3. EXTRA S-VIDEO,CVBS,AUDIO 2 (VIDEO) I/P
: CABLE WERE CONNECTED WITH 4 DUMMY
: LOAD & WITH HEADPHONE.
: 4. 1600x1200/60Hz 75KHz MODE WITH COMPAQ
: ENC/P866/2OE/8/128A TAI PC,ATI RADEON
: VE DDR VIDEO CARD 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	
! 62.790	28.60	---		40.00	9.93	38.53	-1.47	Peak
! 62.790	---		27.21	40.00	9.93	37.14	-2.86	QP
135.000	20.70	---		43.50	12.89	33.59	-9.91	Peak
156.830	15.00	---		43.50	13.61	28.61	-14.89	Peak
169.920	16.40	---		43.50	13.97	30.37	-13.13	Peak
171.820	20.90	---		43.50	14.02	34.92	-8.58	Peak
173.720	14.80	---		43.50	14.07	28.87	-14.63	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
					VERTICAL		
MHz	dBuV	dBuV	dBuV/m	dB/m	dBuV/m	dBuV/m	
192.490	15.60	---	43.50	15.60	31.20	-12.30	Peak
229.500	16.10	---	46.00	18.86	34.96	-11.04	Peak
341.730	20.20	---	46.00	17.34	37.54	-8.46	Peak
343.640	18.70	---	46.00	17.37	36.07	-9.93	Peak
345.550	19.40	---	46.00	17.41	36.81	-9.19	Peak
356.950	14.80	---	46.00	17.63	32.43	-13.57	Peak
362.650	15.70	---	46.00	17.74	33.44	-12.56	Peak
376.150	16.30	---	46.00	17.98	34.28	-11.72	Peak
385.480	16.10	---	46.00	18.14	34.24	-11.76	Peak
475.520	17.80	---	46.00	19.41	37.21	-8.79	Peak
515.460	16.70	---	46.00	19.96	36.66	-9.34	Peak
540.030	14.80	---	46.00	20.33	35.13	-10.87	Peak
567.020	14.20	---	46.00	20.74	34.94	-11.06	Peak
685.370	16.50	---	46.00	23.19	39.69	-6.31	Peak
689.180	16.20	---	46.00	23.29	39.49	-6.51	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

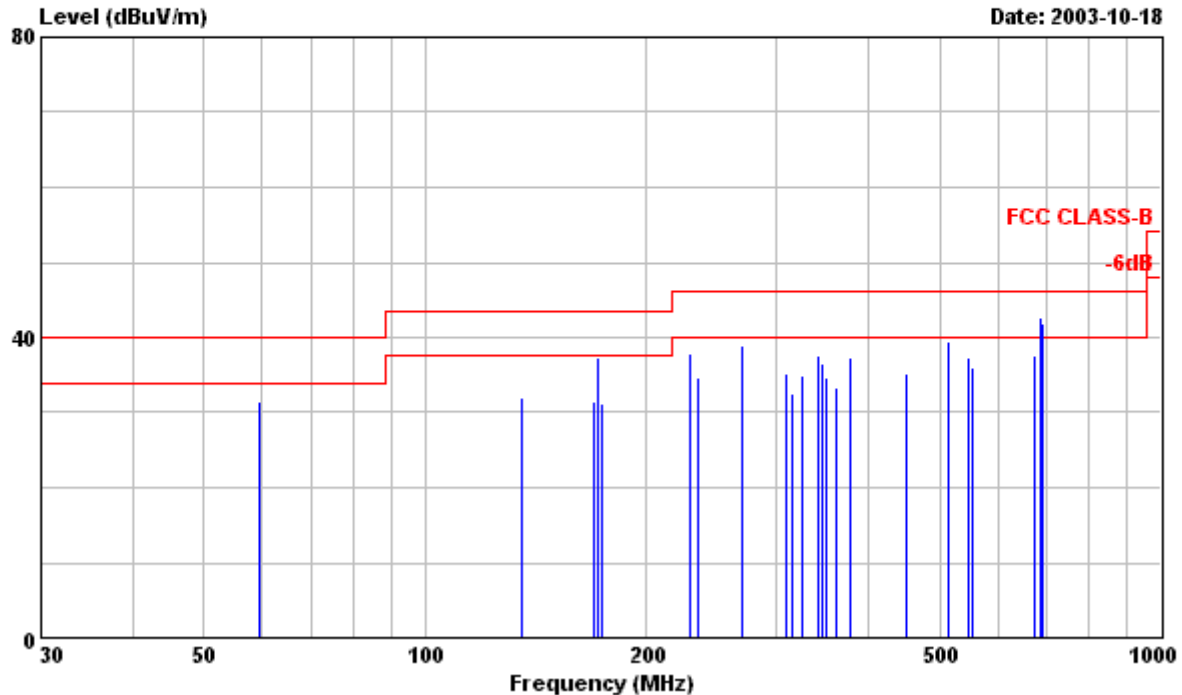


PHILIPS

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Data#: 3

File#: C:\Program Files\em3\EMI03-038-R(200P4).emi



Site : PHILIPS EMI 3M open site
Condition : FCC CLASS-B 3m FCC-3M-FACTOR HORIZONTAL
EUT : PHILIPS 200P4 Serial No:TY0304314
Power : 120-240VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL LG PANEL,RUN IBM V1.8
: FONT 16 "H" PATTERN,D-SUB I/F CABLE.
: 3. EXTRA S-VIDEO,CVBS,AUDIO 2 (VIDEO) I/P
: CABLE WERE CONNECTED WITH 4 DUMMY
: LOAD & WITH HEADPHONE.
: 4. 1280x1024/85Hz 91KHz MODE WITH COMPAQ
: ENC/P866/2OE/8/128A TAI PC,ATI RADEON
: VE DDR VIDEO CARD 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	
59.320	21.50	---	40.00	9.97	31.47	-8.53	Peak
135.000	19.19	---	43.50	12.89	32.08	-11.42	Peak
169.970	17.60	---	43.50	13.97	31.57	-11.93	Peak
171.820	23.20	---	43.50	14.02	37.22	-6.28	Peak
173.650	17.10	---	43.50	14.07	31.17	-12.33	Peak
229.500	19.00	---	46.00	18.86	37.86	-8.14	Peak
234.840	15.40	---	46.00	19.32	34.72	-11.28	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	
270.020	17.20	---	46.00	21.64	38.84	-7.16	Peak
309.320	18.50	---	46.00	16.66	35.16	-10.84	Peak
315.000	15.80	---	46.00	16.80	32.60	-13.40	Peak
326.250	18.00	---	46.00	17.04	35.04	-10.96	Peak
341.790	20.30	---	46.00	17.34	37.64	-8.36	Peak
345.490	19.00	---	46.00	17.41	36.41	-9.59	Peak
351.020	17.10	---	46.00	17.51	34.61	-11.39	Peak
362.140	15.60	---	46.00	17.72	33.32	-12.68	Peak
377.970	19.20	---	46.00	18.02	37.22	-8.78	Peak
450.180	16.10	---	46.00	19.08	35.18	-10.82	Peak
515.450	19.50	---	46.00	19.96	39.46	-6.54	Peak
546.040	16.90	---	46.00	20.42	37.32	-8.68	Peak
555.890	15.30	---	46.00	20.59	35.89	-10.11	Peak
675.020	14.70	---	46.00	22.98	37.68	-8.32	Peak
! 685.430	19.40	---	46.00	23.19	42.59	-3.41	Peak
685.430	---	16.73	46.00	23.19	39.92	-6.08	QP
! 689.110	18.50	---	46.00	23.29	41.79	-4.21	Peak
689.110	---	15.95	46.00	23.29	39.24	-6.76	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

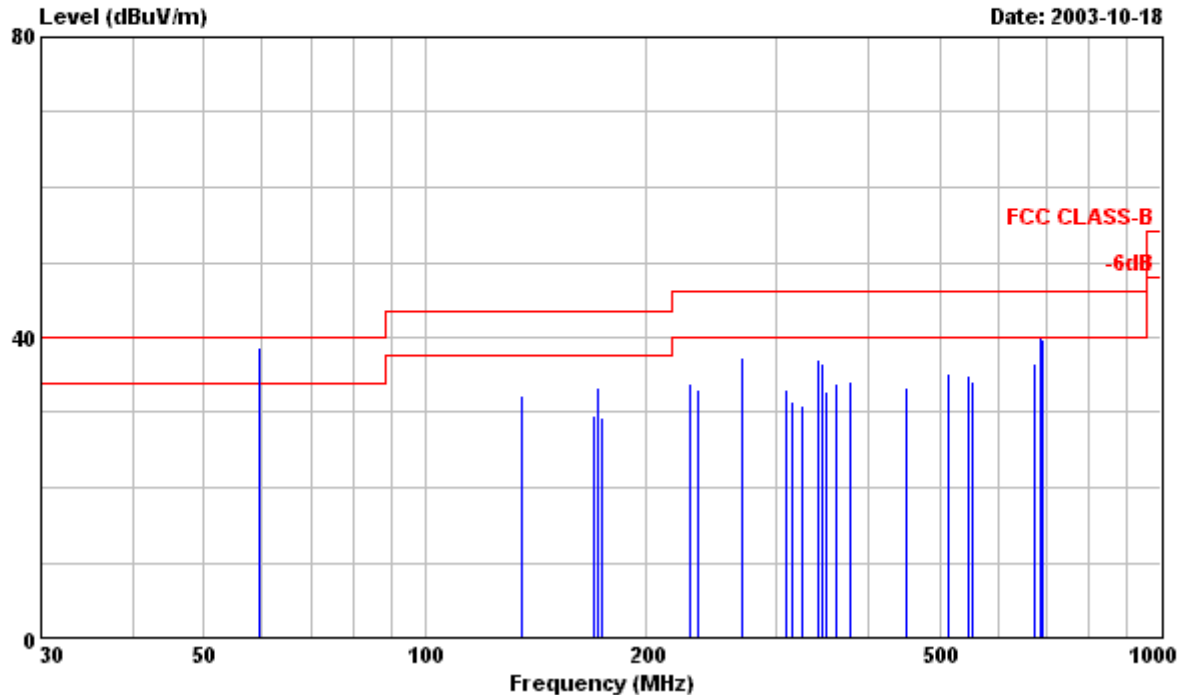


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Data#: 4

File#: C:\Program Files\em3\EMI03-038-R(200P4).emi



Site : PHILIPS EMI 3M open site
Condition : FCC CLASS-B 3m FCC-3M-FACTOR VERTICAL
EUT : PHILIPS 200P4 Serial No:TY0304314
Power : 120-240VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL LG PANEL,RUN IBM V1.8
: FONT 16 "H" PATTERN,D-SUB I/F CABLE.
: 3. EXTRA S-VIDEO,CVBS,AUDIO 2 (VIDEO) I/P
: CABLE WERE CONNECTED WITH 4 DUMMY
: LOAD & WITH HEADPHONE.
: 4. 1280x1024/85Hz 91KHz MODE WITH COMPAQ
: ENC/P866/20E/8/128A TAI PC,ATI RADEON
: VE DDR VIDEO CARD 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	
! 59.360	28.80	---	40.00	9.95	38.75	-1.25	Peak
! 59.360	---	27.06	40.00	9.95	37.01	-2.99	QP
135.000	19.30	---	43.50	12.89	32.19	-11.31	Peak
169.970	15.70	---	43.50	13.97	29.67	-13.83	Peak
171.820	19.40	---	43.50	14.02	33.42	-10.08	Peak
173.650	15.30	---	43.50	14.07	29.37	-14.13	Peak
229.500	14.90	---	46.00	18.86	33.76	-12.24	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	
234.840	13.70	---	46.00	19.32	33.02	-12.98	Peak
270.020	15.80	---	46.00	21.64	37.44	-8.56	Peak
309.320	16.50	---	46.00	16.66	33.16	-12.84	Peak
315.000	14.70	---	46.00	16.80	31.50	-14.50	Peak
326.250	14.00	---	46.00	17.04	31.04	-14.96	Peak
341.790	19.80	---	46.00	17.34	37.14	-8.86	Peak
345.490	19.00	---	46.00	17.41	36.41	-9.59	Peak
351.020	15.30	---	46.00	17.51	32.81	-13.19	Peak
362.140	16.10	---	46.00	17.72	33.82	-12.18	Peak
377.970	16.40	---	46.00	18.02	34.42	-11.58	Peak
450.180	14.30	---	46.00	19.08	33.38	-12.62	Peak
515.450	15.20	---	46.00	19.96	35.16	-10.84	Peak
546.040	14.60	---	46.00	20.42	35.02	-10.98	Peak
555.890	13.90	---	46.00	20.59	34.49	-11.51	Peak
675.020	13.60	---	46.00	22.98	36.58	-9.42	Peak
685.430	16.80	---	46.00	23.19	39.99	-6.01	Peak
689.110	16.40	---	46.00	23.29	39.69	-6.31	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

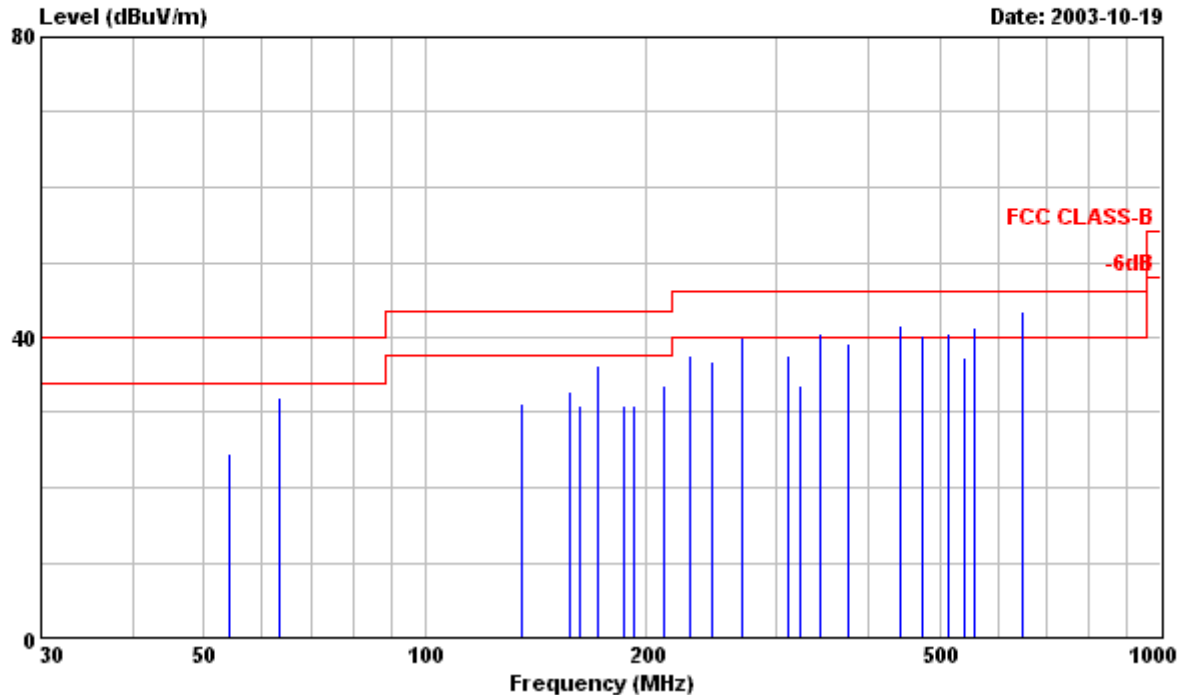


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Data#: 5

File#: C:\Program Files\es\EMI03-038-R(200P4).emi



Site : PHILIPS EMI 3M open site
Condition : FCC CLASS-B 3m FCC-3M-FACTOR HORIZONTAL
EUT : PHILIPS 200P4 Serial No:TY0304314
Power : 120-240VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL LG PANEL,RUN IBM V1.8
: FONT 16 "H" PATTERN,DVI I/F CABLE.
: 3. EXTRA S-VIDEO,CVBS,AUDIO 2 (VIDEO) I/P
: CABLE WERE CONNECTED WITH 4 DUMMY
: LOAD & WITH HEADPHONE.
: 4. 1600x1200/60Hz 75KHz MODE WITH COMPAQ
: ENC/P866/2OE/8/128A TAI PC,ATI RADEON
: VE DDR VIDEO CARD 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	
54.000	14.00	---	40.00	10.42	24.42	-15.58	Peak
63.420	22.10	---	40.00	9.93	32.03	-7.97	Peak
135.000	18.20	---	43.50	12.89	31.09	-12.41	Peak
156.870	19.20	---	43.50	13.61	32.81	-10.69	Peak
162.240	17.30	---	43.50	13.76	31.06	-12.44	Peak
171.820	22.20	---	43.50	14.02	36.22	-7.28	Peak
186.150	16.00	---	43.50	15.03	31.03	-12.47	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)



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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	
192.520	15.40	---	43.50	15.60	31.00	-12.50	Peak
211.020	16.20	---	43.50	17.28	33.48	-10.02	Peak
229.500	18.80	---	46.00	18.86	37.66	-8.34	Peak
245.470	16.80	---	46.00	20.11	36.91	-9.09	Peak
270.020	18.30	---	46.00	21.64	39.94	-6.06	Peak
311.140	20.80	---	46.00	16.71	37.51	-8.49	Peak
324.020	16.70	---	46.00	16.99	33.69	-12.31	Peak
! 343.640	23.20	---	46.00	17.37	40.57	-5.43	Peak
343.640	---	21.22	46.00	17.37	38.59	-7.41	QP
376.140	21.30	---	46.00	17.98	39.28	-6.72	Peak
! 441.790	22.60	---	46.00	18.98	41.58	-4.42	Peak
441.790	---	20.76	46.00	18.98	39.74	-6.26	QP
! 474.350	20.90	---	46.00	19.39	40.29	-5.71	Peak
474.350	---	18.66	46.00	19.39	38.05	-7.95	QP
! 515.460	20.50	---	46.00	19.96	40.46	-5.54	Peak
515.460	---	18.51	46.00	19.96	38.47	-7.53	QP
540.780	17.00	---	46.00	20.36	37.36	-8.64	Peak
! 558.800	20.70	---	46.00	20.62	41.32	-4.68	Peak
558.800	---	18.44	46.00	20.62	39.06	-6.94	QP
! 648.980	21.00	---	46.00	22.40	43.40	-2.60	Peak
! 648.980	---	18.76	46.00	22.40	41.16	-4.84	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

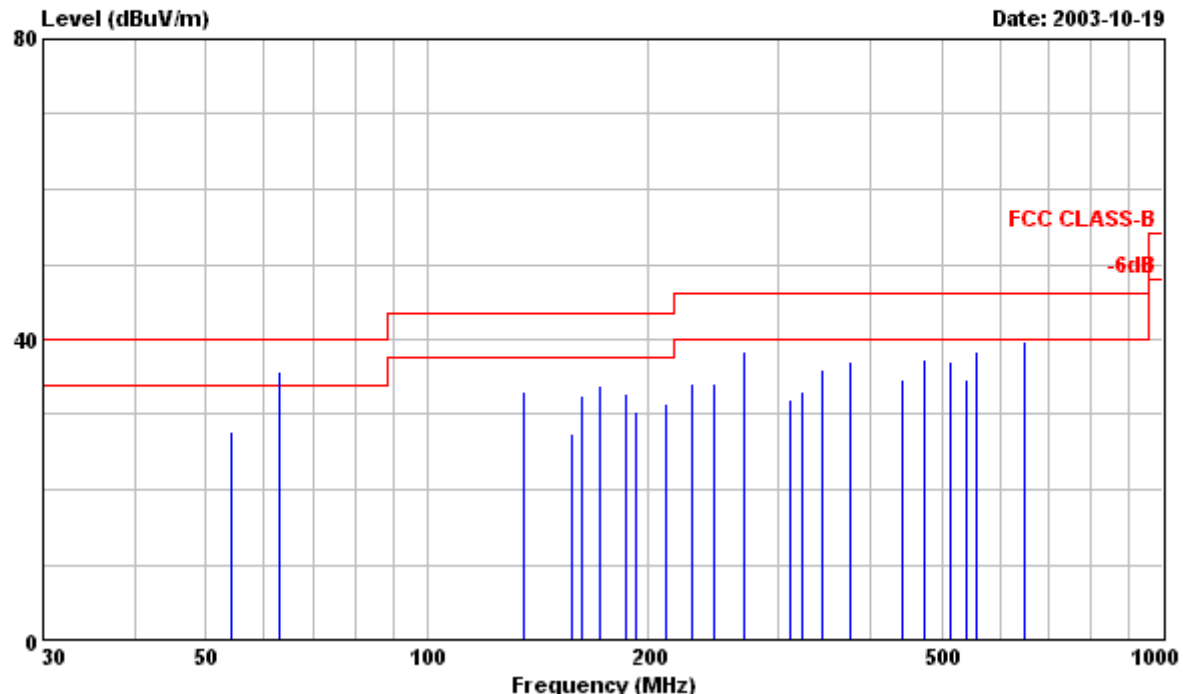


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Data#: 6

File#: C:\Program Files\es\EMI03-038-R(200P4).emi



Site : PHILIPS EMI 3M open site
Condition : FCC CLASS-B 3m FCC-3M-FACTOR VERTICAL
EUT : PHILIPS 200P4 Serial No:TY0304314
Power : 120-240VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL LG PANEL,RUN IBM V1.8
: FONT 16 "H" PATTERN,DVI I/F CABLE.
: 3. EXTRA S-VIDEO,CVBS,AUDIO 2 (VIDEO) I/P
: CABLE WERE CONNECTED WITH 4 DUMMY
: LOAD & WITH HEADPHONE.
: 4. 1600x1200/60Hz 75KHz MODE WITH COMPAQ
: ENC/P866/2OE/8/128A TAI PC,ATI RADEON
: VE DDR VIDEO CARD 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	
54.000		17.20	---	40.00	10.42	27.62	-12.38	Peak
! 62.780		---	24.24	40.00	9.93	34.17	-5.83	QP
! 62.780		25.80	---	40.00	9.93	35.73	-4.27	Peak
135.000		20.10	---	43.50	12.89	32.99	-10.51	Peak
156.870		13.80	---	43.50	13.61	27.41	-16.09	Peak
162.240		18.70	---	43.50	13.76	32.46	-11.04	Peak
171.820		19.80	---	43.50	14.02	33.82	-9.68	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	
186.150	17.70	---	43.50	15.03	32.73	-10.77	Peak
192.520	14.90	---	43.50	15.60	30.50	-13.00	Peak
211.020	14.20	---	43.50	17.28	31.48	-12.02	Peak
229.500	15.40	---	46.00	18.86	34.26	-11.74	Peak
245.470	14.10	---	46.00	20.11	34.21	-11.79	Peak
270.020	16.70	---	46.00	21.64	38.34	-7.66	Peak
311.600	15.30	---	46.00	16.71	32.01	-13.99	Peak
324.020	16.20	---	46.00	16.99	33.19	-12.81	Peak
343.640	18.60	---	46.00	17.37	35.97	-10.03	Peak
376.140	19.10	---	46.00	17.98	37.08	-8.92	Peak
441.790	15.70	---	46.00	18.98	34.68	-11.32	Peak
474.350	18.00	---	46.00	19.39	37.39	-8.61	Peak
515.460	17.20	---	46.00	19.96	37.16	-8.84	Peak
540.780	14.30	---	46.00	20.36	34.66	-11.34	Peak
558.800	17.80	---	46.00	20.62	38.42	-7.58	Peak
648.980	17.30	---	46.00	22.40	39.70	-6.30	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