



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.: TYR87-2063 Date : 16 January, 2004 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. : A3KM132 Model Name : 190P5 Serial Number : TY0304685 Description : 19" SXGA LCD monitor, Max. resolution 1280x1024/75Hz		
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 : 19 Dec. 2003 Date of performance of test : 20 Dec., 2003 to 23 Dec., 2003		
 C.C. Wu - EMC Test Engineer  Ronnie Yang - EMC Manager		

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, 19" color monitor :

Model No. : 190P5
 FCC ID : A3KM132
 Brand : PHILIPS

The color monitor automatically scans horizontal frequencies between 31KHz and 82KHz , and vertical frequencies between 56Hz and 76Hz. This color monitor displays sharp and brilliant images of text and graphics with a maximum resolution up to 1280x1024 pixels.

The monitor has 15 factory-preset modes as indicated in the following table:

#	Resolution	H-Frequency	Pixel rate	V-Frequency	Comment
1	640X350	31.5KHz	25.175	70Hz	IBM VGA 10h
2	720X400	31.5KHz	28.322	70Hz	IBM VGA 3h
3	640X480	37.5KHz	31.501	75Hz	
4	640X480	35.0KHz	30.24	67Hz	
5	640X480	31.5KHz	25.175	60Hz	
6	800X600	35.2KHz	36	56Hz	
7	800X600	46.9KHz	49.498	75Hz	
8	800X600	37.9KHz	40	60Hz	
9	832X624	49.7KHz	57.28	75Hz	MAC
10	1024X768	60.0KHz	78.75	75Hz	
11	1024X768	48.4KHz	65	60Hz	
12	1152X870	68.7KHz	100	75Hz	MAC
13	1152X900	71.8KHz	108	76Hz	SUN Mode II
14	1280X1024	64.0KHz	108	60Hz	
15	1280X1024	80.0KHz	135	75Hz	

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

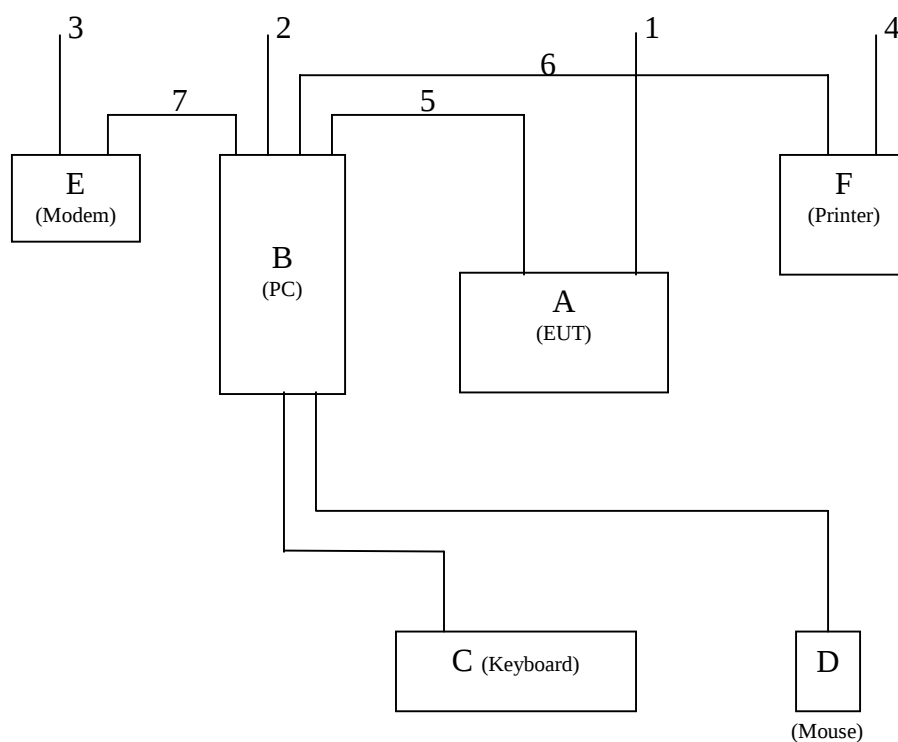
The system was configured for testing in a typical fashion (as a customer would normally use it) according to ANSI C63.4-1992, please see the photographs for detail. For system measurement, the EUT “190P5” were connected to:

	Description	Brand/ Model No.	Serial No.	FCC ID	Remark
A	Monitor	PHILIPS 190P5	TY0304685	A3KM132	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
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.

Audio cable with one ferrite cores was used.

Tested and reported modes as following:

Test Item	File No.	Resolution	Frequencies	I/F Cable
Conducted	EMI03-046-C	1280x1024	80KHz/75Hz	D-sub & DVI
		1024x768	60KHz/75Hz	D-sub
Radiated	EMI03-046-R	1280x1024	80KHz/75Hz	D-sub & DVI
		1024x768	60KHz/75Hz	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

7. Conducted Emissions Test

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

: 20 Dec., 2003 to 23 Dec., 2003

Test Engineer

: C.C.Wu

For detail measurement results see next pages.

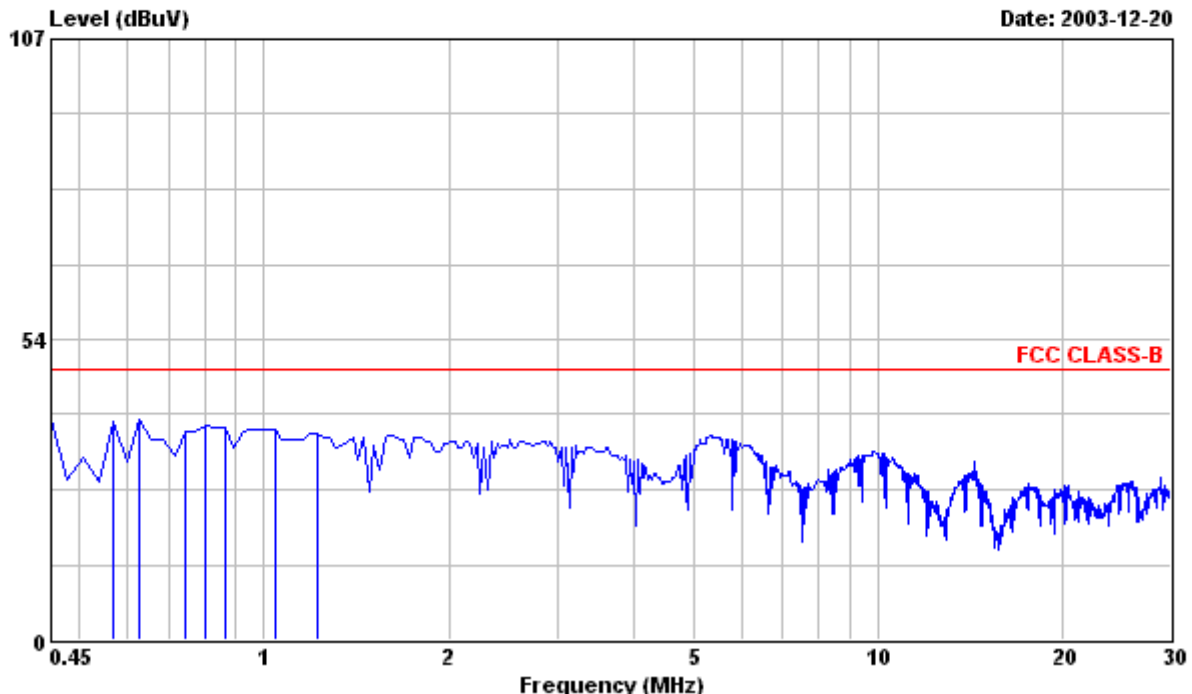


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Data#: 1

File#: C:\Program Files\em3\EMI03-046-C(PHILIPS 190P5).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L1 LINE
EUT : PHILIPS 190P5 Serial No:TY0304685
Power : 120VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL FUJITSU PANEL,RUN IBM V1.8
: FONT 14 ARIAL "H" PATTERN,D-SUB I/F.
: 3. AUDIO WITH HEADPHONE.
: 4. 1280x1024/75Hz 80KHz MODE WITH COMPAQ
: ENC/P866/2OE/8/128A TAI PC,ATI RADEON
: VE DDR VIDEO CAR WAS TESTED.

Frequency	Peak Reading	QP Reading	Limit	Factor	Emission Level	Over Limit	Remark
LINE							
0.450	39.00	---	48.00	0.20	39.20	-8.80	Peak
0.568	38.70	---	48.00	0.26	38.96	-9.04	Peak
0.627	38.80	---	48.00	0.28	39.08	-8.92	Peak
0.746	36.90	---	48.00	0.33	37.23	-10.77	Peak
0.805	37.90	---	48.00	0.35	38.25	-9.75	Peak
0.864	37.50	---	48.00	0.36	37.86	-10.14	Peak
1.041	37.20	---	48.00	0.40	37.60	-10.40	Peak
1.218	36.50	---	48.00	0.40	36.90	-11.10	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

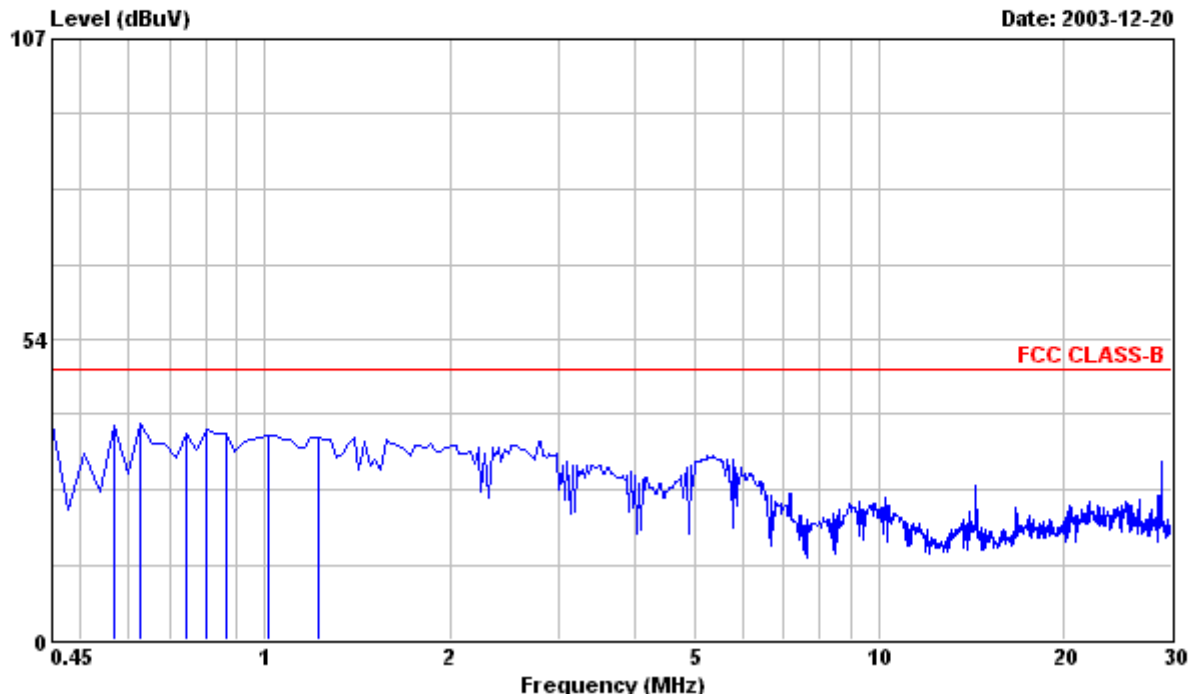


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Data#: 2

File#: C:\Program Files\em3\EMI03-046-C(PHILIPS 190P5).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L2 NEUTRAL
EUT : PHILIPS 190P5 Serial No:TY0304685
Power : 120VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL FUJITSU PANEL,RUN IBM V1.8
: FONT 14 ARIAL "H" PATTERN,D-SUB I/F.
: 3. AUDIO WITH HEADPHONE.
: 4. 1280x1024/75Hz 80KHz MODE WITH COMPAQ
: ENC/P866/2OE/8/128A TAI PC,ATI RADEON
: VE DDR VIDEO CAR WAS TESTED.

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

0.450	38.20	---	48.00	0.20	38.40	-9.60	Peak
0.568	37.90	---	48.00	0.26	38.16	-9.84	Peak
0.627	38.20	---	48.00	0.28	38.48	-9.52	Peak
0.746	36.30	---	48.00	0.33	36.63	-11.37	Peak
0.805	37.10	---	48.00	0.35	37.45	-10.55	Peak
0.864	36.50	---	48.00	0.36	36.86	-11.14	Peak
1.011	36.10	---	48.00	0.40	36.50	-11.50	Peak
1.218	35.70	---	48.00	0.40	36.10	-11.90	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

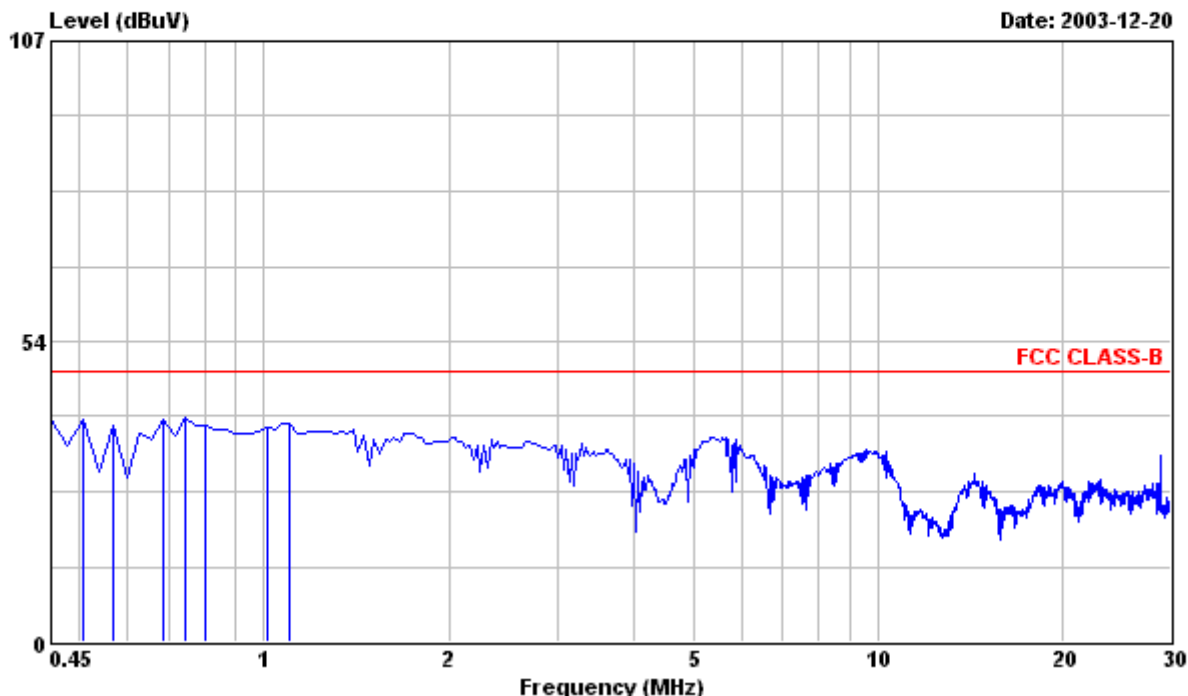


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Data#: 3

File#: C:\Program Files\em3\EMI03-046-C(PHILIPS 190P5).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L1 LINE
EUT : PHILIPS 190P5 Serial No:TY0304685
Power : 220VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL FUJITSU PANEL,RUN IBM V1.8
: FONT 14 ARIAL "H" PATTERN,D-SUB I/F.
: 3. AUDIO WITH HEADPHONE.
: 4. 1280x1024/75Hz 80KHz MODE WITH COMPAQ
: ENC/P866/2OE/8/128A TAI PC,ATI RADEON
: VE DDR VIDEO CAR WAS TESTED.

Frequency	Peak Reading	QP Reading	Limit	Factor	Emission Level	Over Limit	Remark
LINE							
0.450	39.30	---	48.00	0.20	39.50	-8.50	Peak
0.509	39.50	---	48.00	0.23	39.73	-8.27	Peak
0.568	38.40	---	48.00	0.26	38.66	-9.34	Peak
0.686	39.20	---	48.00	0.31	39.51	-8.49	Peak
0.746	39.50	---	48.00	0.33	39.83	-8.17	Peak
0.805	38.30	---	48.00	0.35	38.65	-9.35	Peak
1.011	37.90	---	48.00	0.40	38.30	-9.70	Peak
1.100	38.30	---	48.00	0.40	38.70	-9.30	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

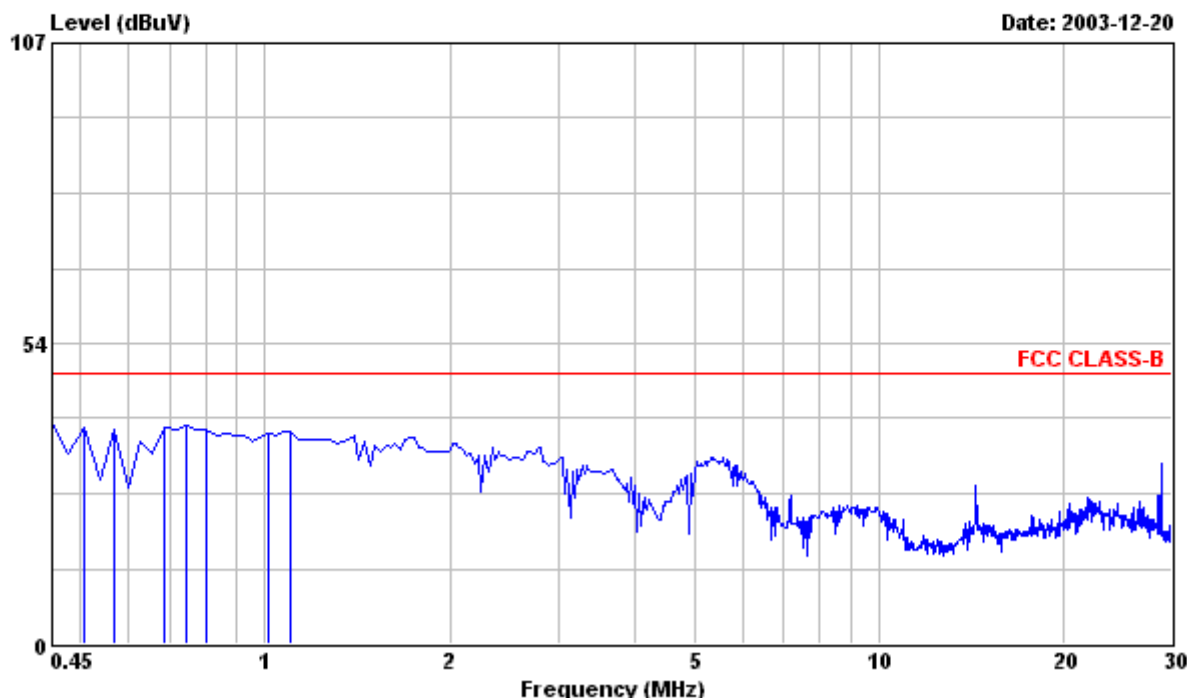


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Data#: 4

File#: C:\Program Files\em3\EMI03-046-C(PHILIPS 190P5).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L2 NEUTRAL
EUT : PHILIPS 190P5 Serial No:TY0304685
Power : 220VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL FUJITSU PANEL,RUN IBM V1.8
: FONT 14 ARIAL "H" PATTERN,D-SUB I/F.
: 3. AUDIO WITH HEADPHONE.
: 4. 1280x1024/75Hz 80KHz MODE WITH COMPAQ
: ENC/P866/2OE/8/128A TAI PC,ATI RADEON
: VE DDR VIDEO CAR WAS TESTED.

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

0.450	38.90	---	48.00	0.20	39.10	-8.90	Peak
0.509	38.40	---	48.00	0.23	38.63	-9.37	Peak
0.568	37.90	---	48.00	0.26	38.16	-9.84	Peak
0.686	38.20	---	48.00	0.31	38.51	-9.49	Peak
0.746	38.50	---	48.00	0.33	38.83	-9.17	Peak
0.805	37.80	---	48.00	0.35	38.15	-9.85	Peak
1.011	37.20	---	48.00	0.40	37.60	-10.40	Peak
1.100	37.50	---	48.00	0.40	37.90	-10.10	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

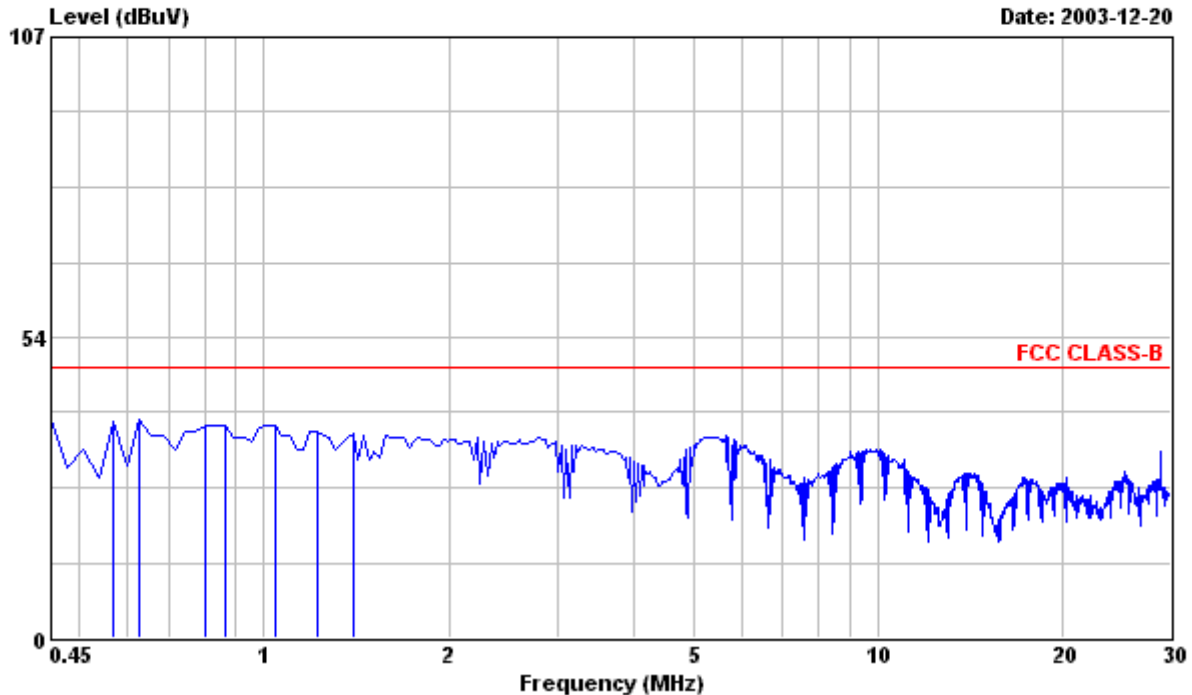


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Data#: 5

File#: C:\Program Files\em3\EMI03-046-C(PHILIPS 190P5).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L1 LINE
EUT : PHILIPS 190P5 Serial No:TY0304685
Power : 120VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL FUJITSU PANEL,RUN IBM V1.8
: FONT 12 ARIAL "H" PATTERN,D-SUB I/F.
: 3. AUDIO WITH HEADPHONE.
: 4. 1024x768/75Hz 60KHz MODE WITH COMPAQ
: ENC/P866/2OE/8/128A TAI PC,ATI RADEON
: VE DDR VIDEO CAR WAS TESTED.

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

0.450	38.70	---	48.00	0.20	38.90	-9.10	Peak
0.568	38.30	---	48.00	0.26	38.56	-9.44	Peak
0.627	38.50	---	48.00	0.28	38.78	-9.22	Peak
0.805	37.50	---	48.00	0.35	37.85	-10.15	Peak
0.864	37.30	---	48.00	0.36	37.66	-10.34	Peak
1.041	37.40	---	48.00	0.40	37.80	-10.20	Peak
1.218	36.40	---	48.00	0.40	36.80	-11.20	Peak
1.396	35.90	---	48.00	0.40	36.30	-11.70	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

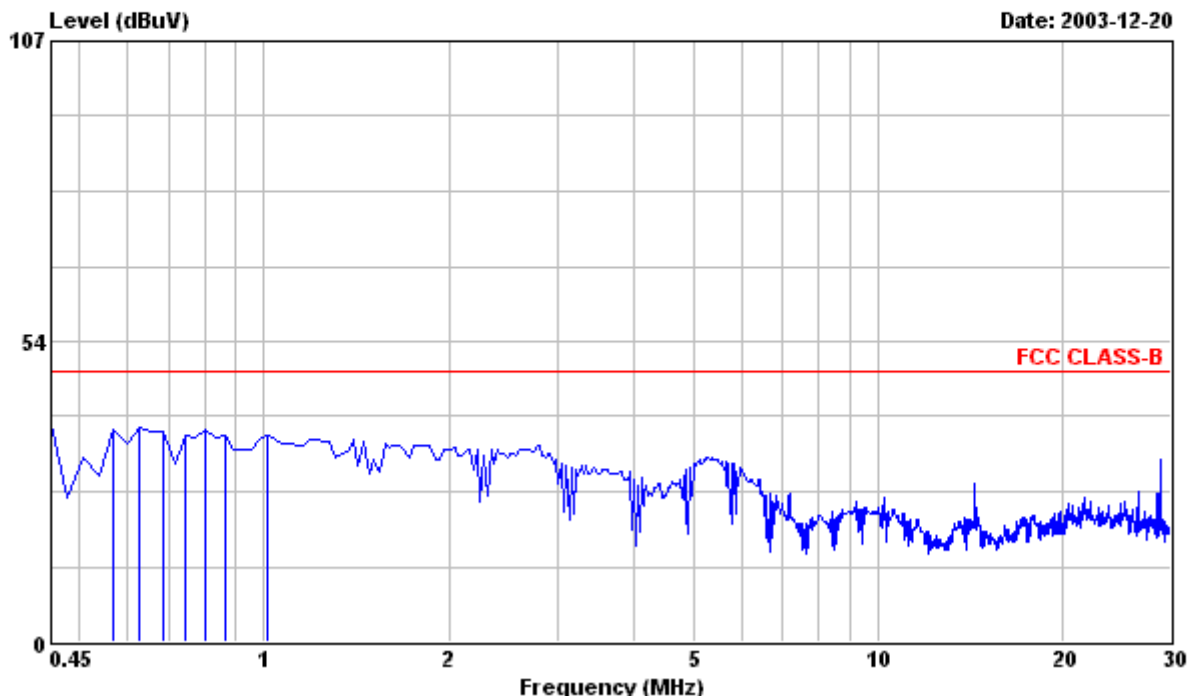


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Data#: 6

File#: C:\Program Files\em3\EMI03-046-C(PHILIPS 190P5).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L2 NEUTRAL
EUT : PHILIPS 190P5 Serial No:TY0304685
Power : 120VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL FUJITSU PANEL, RUN IBM V1.8
: FONT 12 ARIAL "H" PATTERN, D-SUB I/F.
: 3. AUDIO WITH HEADPHONE.
: 4. 1024x768/75Hz 60KHz MODE WITH COMPAQ
: ENC/P866/2OE/8/128A TAI PC, ATI RADEON
: VE DDR VIDEO CAR WAS TESTED.

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

0.450	38.50	---	48.00	0.20	38.70	-9.30	Peak
0.568	37.60	---	48.00	0.26	37.86	-10.14	Peak
0.627	37.90	---	48.00	0.28	38.18	-9.82	Peak
0.686	37.20	---	48.00	0.31	37.51	-10.49	Peak
0.746	36.50	---	48.00	0.33	36.83	-11.17	Peak
0.805	37.40	---	48.00	0.35	37.75	-10.25	Peak
0.864	36.20	---	48.00	0.36	36.56	-11.44	Peak
1.011	36.40	---	48.00	0.40	36.80	-11.20	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

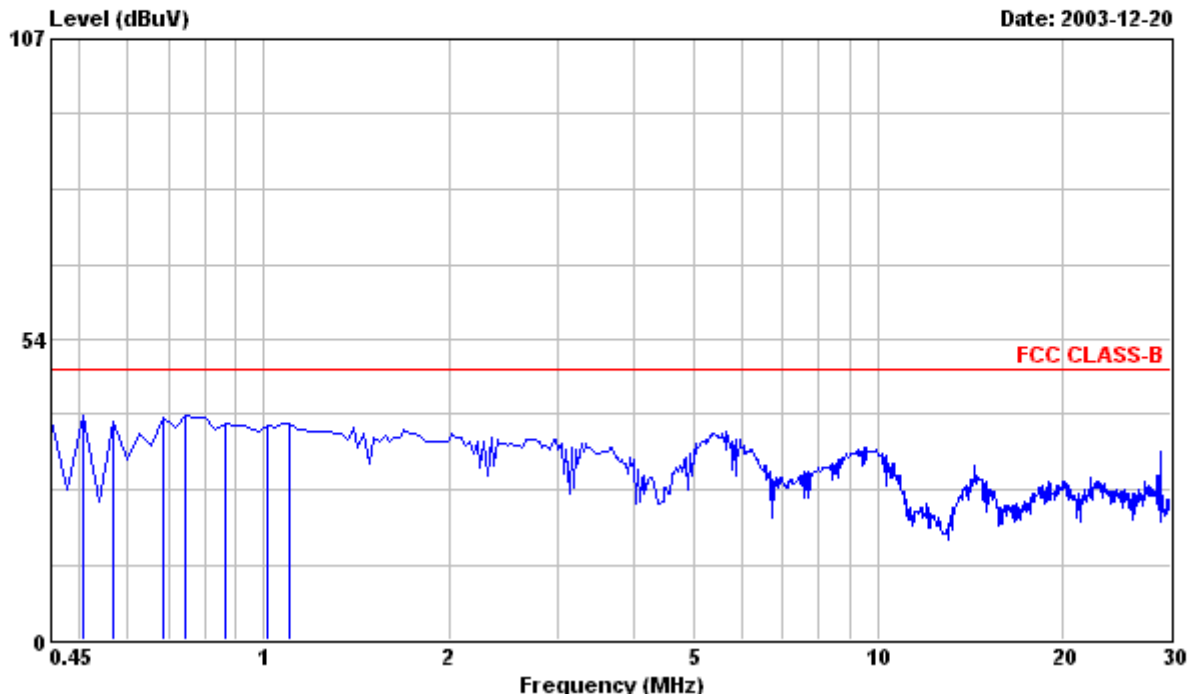


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Data#: 7

File#: C:\Program Files\em3\EMI03-046-C(PHILIPS 190P5).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L1 LINE
EUT : PHILIPS 190P5 Serial No:TY0304685
Power : 220VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL FUJITSU PANEL,RUN IBM V1.8
: FONT 12 ARIAL "H" PATTERN,D-SUB I/F.
: 3. AUDIO WITH HEADPHONE.
: 4. 1024x768/75Hz 60KHz MODE WITH COMPAQ
: ENC/P866/2OE/8/128A TAI PC,ATI RADEON
: VE DDR VIDEO CAR WAS TESTED.

Frequency	Peak Reading	QP Reading	Limit	Factor	Emission Level	Over Limit	Remark
LINE							
0.450	39.10	---	48.00	0.20	39.30	-8.70	Peak
0.509	39.60	---	48.00	0.23	39.83	-8.17	Peak
0.568	38.60	---	48.00	0.26	38.86	-9.14	Peak
0.686	39.20	---	48.00	0.31	39.51	-8.49	Peak
0.746	39.60	---	48.00	0.33	39.93	-8.07	Peak
0.864	38.10	---	48.00	0.36	38.46	-9.54	Peak
1.011	37.90	---	48.00	0.40	38.30	-9.70	Peak
1.100	38.10	---	48.00	0.40	38.50	-9.50	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

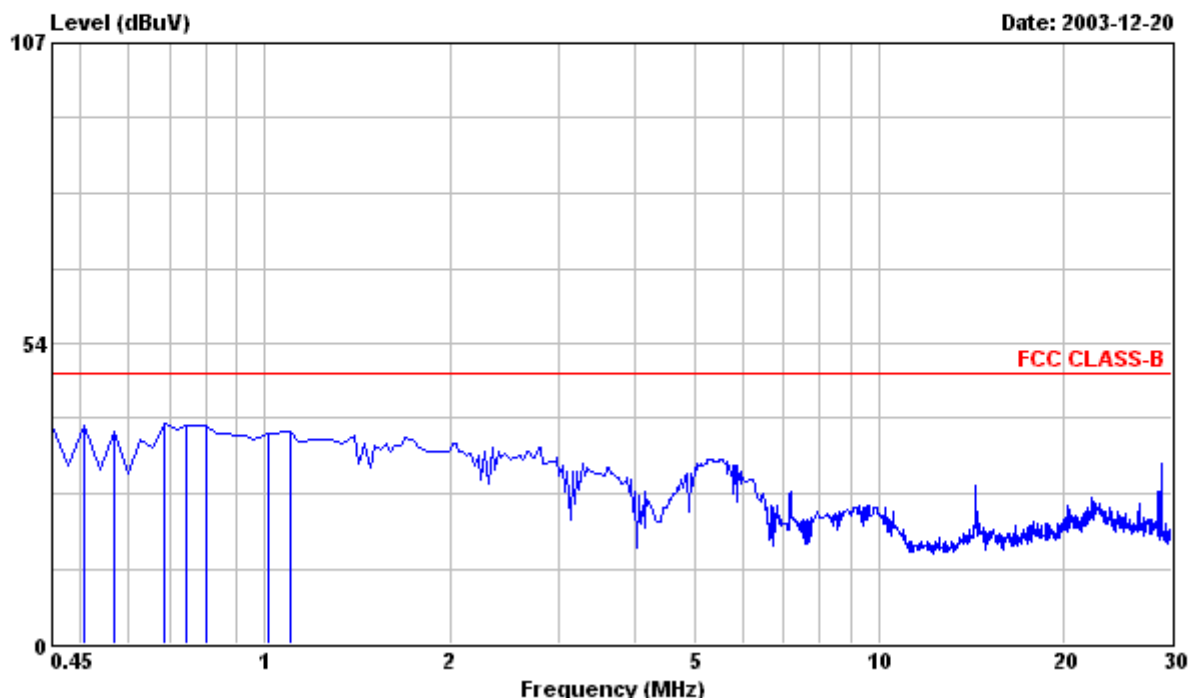


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Data#: 8

File#: C:\Program Files\em3\EMI03-046-C(PHILIPS 190P5).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L2 NEUTRAL
EUT : PHILIPS 190P5 Serial No:TY0304685
Power : 220VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL FUJITSU PANEL,RUN IBM V1.8
: FONT 12 ARIAL "H" PATTERN,D-SUB I/F.
: 3. AUDIO WITH HEADPHONE.
: 4. 1024x768/75Hz 60KHz MODE WITH COMPAQ
: ENC/P866/2OE/8/128A TAI PC,ATI RADEON
: VE DDR VIDEO CAR WAS TESTED.

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

0.450	38.80	---	48.00	0.20	39.00	-9.00	Peak
0.509	38.80	---	48.00	0.23	39.03	-8.97	Peak
0.568	37.40	---	48.00	0.26	37.66	-10.34	Peak
0.686	38.90	---	48.00	0.31	39.21	-8.79	Peak
0.746	38.60	---	48.00	0.33	38.93	-9.07	Peak
0.805	38.40	---	48.00	0.35	38.75	-9.25	Peak
1.011	37.20	---	48.00	0.40	37.60	-10.40	Peak
1.100	37.50	---	48.00	0.40	37.90	-10.10	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

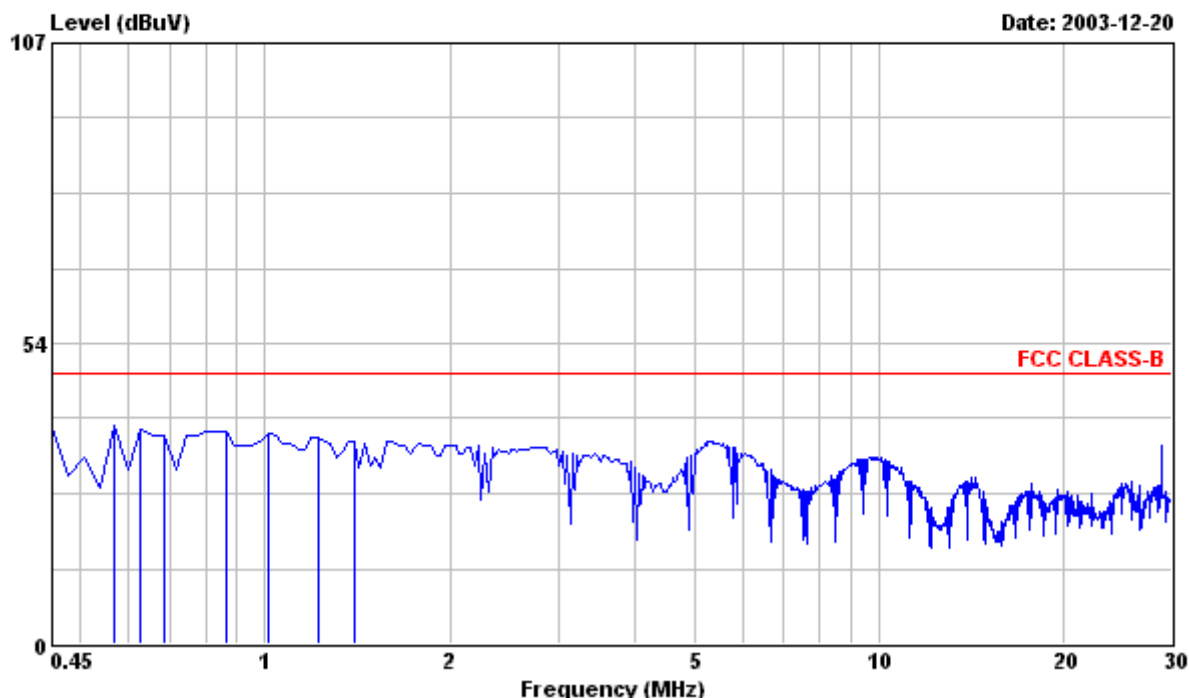


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Data#: 9

File#: C:\Program Files\em3\EMI03-046-C(PHILIPS 190P5).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L1 LINE
EUT : PHILIPS 190P5 Serial No:TY0304685
Power : 120VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL FUJITSU PANEL,RUN IBM V1.8
: FONT 14 ARIAL "H" PATTERN,DVI I/F.
: 3. AUDIO WITH HEADPHONE.
: 4. 1280x1024/75Hz 80KHz MODE WITH COMPAQ
: ENC/P866/2OE/8/128A TAI PC,ATI RADEON
: VE DDR VIDEO CAR WAS TESTED.

Frequency	Peak Reading	QP Reading	Limit	Factor	Emission Level	Over Limit	Remark
LINE							
0.450	38.30	---	48.00	0.20	38.50	-9.50	Peak
0.568	38.70	---	48.00	0.26	38.96	-9.04	Peak
0.627	37.90	---	48.00	0.28	38.18	-9.82	Peak
0.686	36.70	---	48.00	0.31	37.01	-10.99	Peak
0.864	37.40	---	48.00	0.36	37.76	-10.24	Peak
1.011	36.90	---	48.00	0.40	37.30	-10.70	Peak
1.218	36.50	---	48.00	0.40	36.90	-11.10	Peak
1.396	35.80	---	48.00	0.40	36.20	-11.80	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

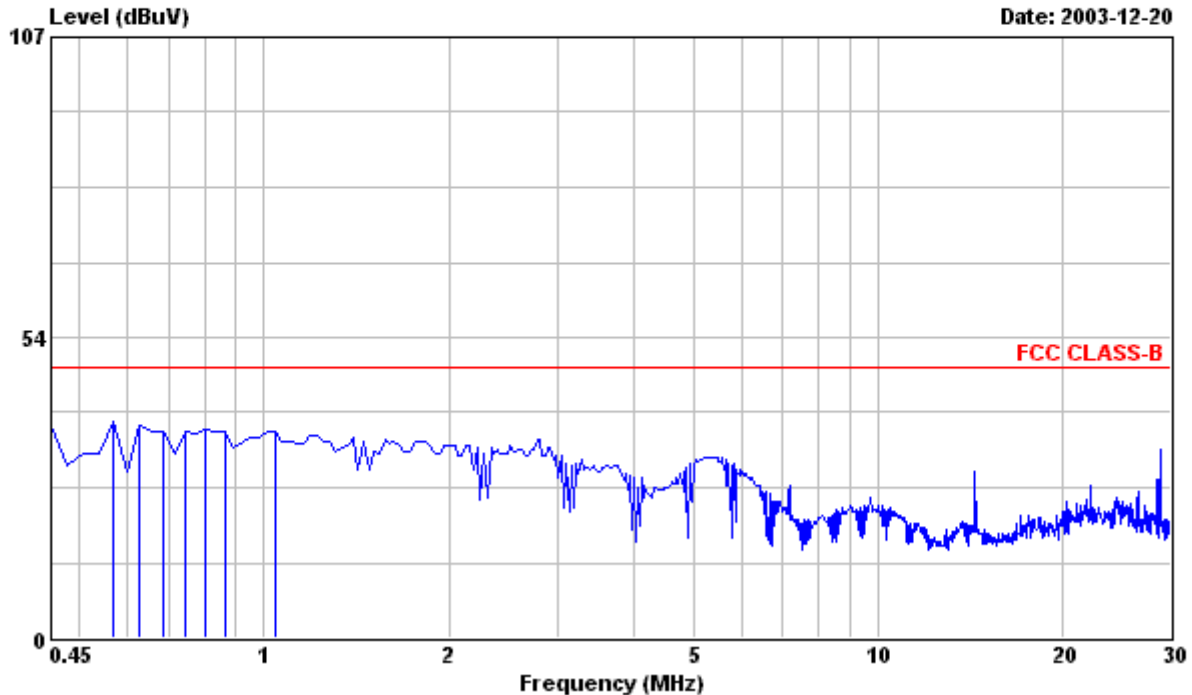


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Data#: 10

File#: C:\Program Files\em3\EMI03-046-C(PHILIPS 190P5).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L2 NEUTRAL
EUT : PHILIPS 190P5 Serial No:TY0304685
Power : 120VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL FUJITSU PANEL,RUN IBM V1.8
: FONT 14 ARIAL "H" PATTERN,DVI I/F.
: 3. AUDIO WITH HEADPHONE.
: 4. 1280x1024/75Hz 80KHz MODE WITH COMPAQ
: ENC/P866/2OE/8/128A TAI PC,ATI RADEON
: VE DDR VIDEO CAR WAS TESTED.

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

0.450	37.50	---	48.00	0.20	37.70	-10.30	Peak
0.568	38.40	---	48.00	0.26	38.66	-9.34	Peak
0.627	37.50	---	48.00	0.28	37.78	-10.22	Peak
0.686	36.50	---	48.00	0.31	36.81	-11.19	Peak
0.746	36.50	---	48.00	0.33	36.83	-11.17	Peak
0.805	36.80	---	48.00	0.35	37.15	-10.85	Peak
0.864	36.40	---	48.00	0.36	36.76	-11.24	Peak
1.041	36.30	---	48.00	0.40	36.70	-11.30	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

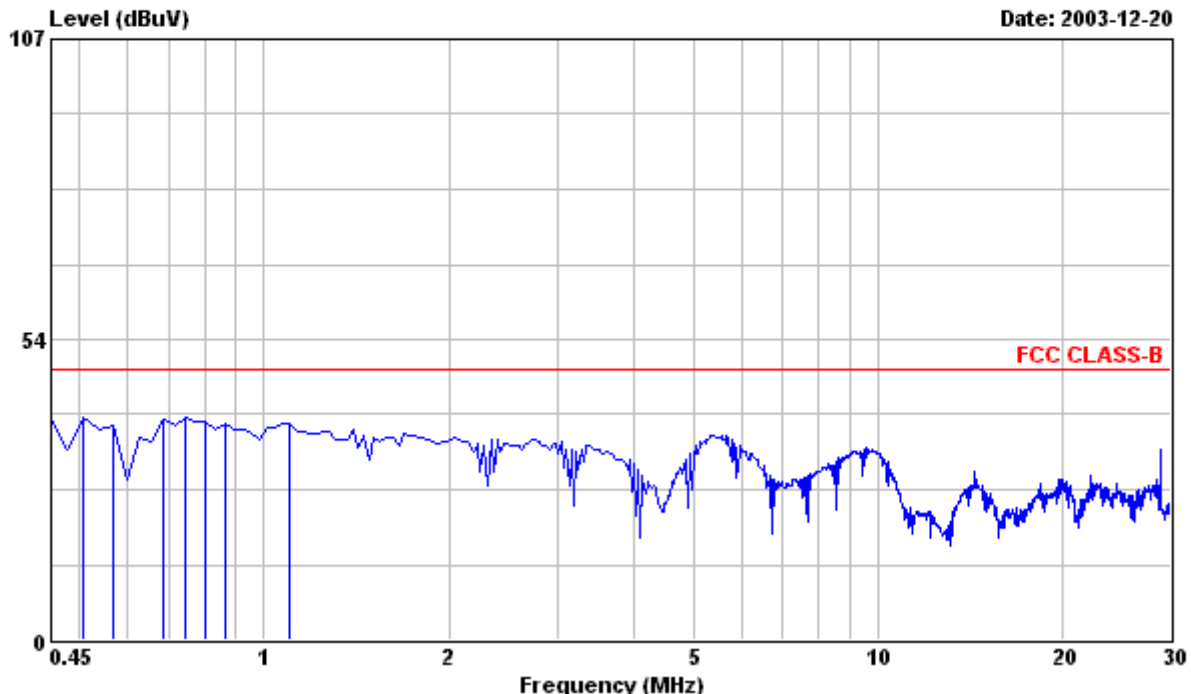


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Data#: 11

File#: C:\Program Files\em3\EMI03-046-C(PHILIPS 190P5).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L1 LINE
EUT : PHILIPS 190P5 Serial No:TY0304685
Power : 220VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL FUJITSU PANEL,RUN IBM V1.8
: FONT 14 ARIAL "H" PATTERN,DVI I/F.
: 3. AUDIO WITH HEADPHONE.
: 4. 1280x1024/75Hz 80KHz MODE WITH COMPAQ
: ENC/P866/2OE/8/128A TAI PC,ATI RADEON
: VE DDR VIDEO CAR WAS TESTED.

Frequency	Peak Reading	QP Reading	Limit	Factor	Emission Level	Over Limit	Remark
LINE							
0.450	39.20	---	48.00	0.20	39.40	-8.60	Peak
0.509	39.50	---	48.00	0.23	39.73	-8.27	Peak
0.568	37.80	---	48.00	0.26	38.06	-9.94	Peak
0.686	38.90	---	48.00	0.31	39.21	-8.79	Peak
0.746	39.20	---	48.00	0.33	39.53	-8.47	Peak
0.805	38.50	---	48.00	0.35	38.85	-9.15	Peak
0.864	38.00	---	48.00	0.36	38.36	-9.64	Peak
1.100	38.00	---	48.00	0.40	38.40	-9.60	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

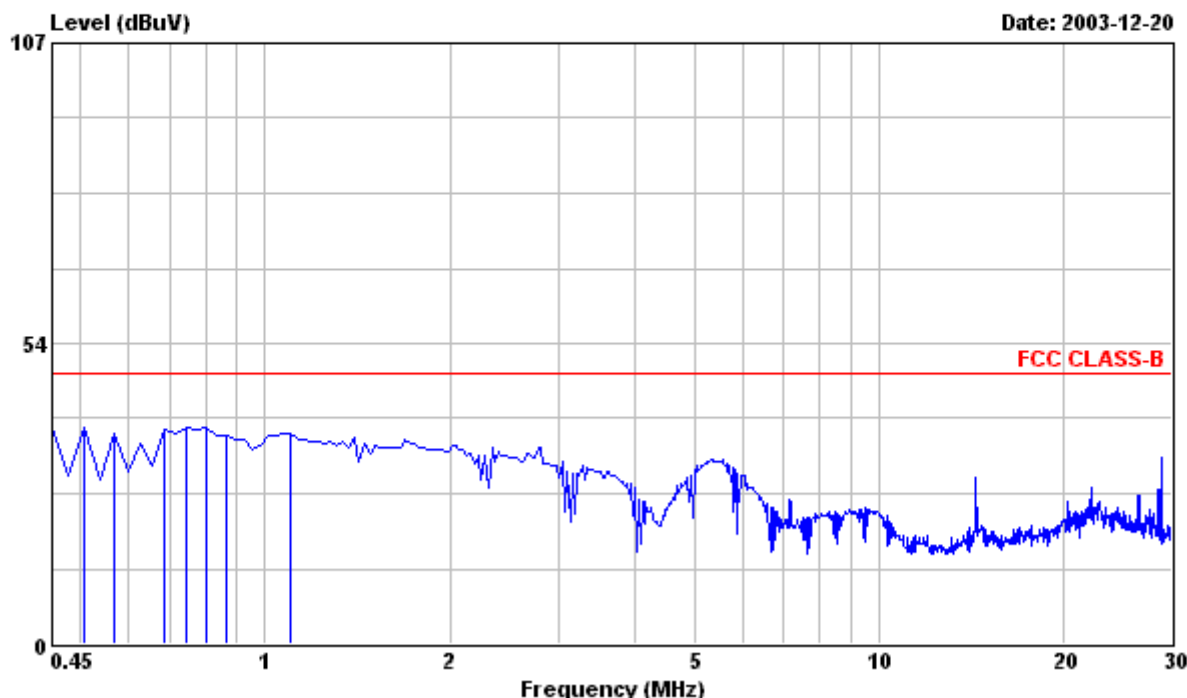


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Data#: 12

File#: C:\Program Files\em3\EMI03-046-C(PHILIPS 190P5).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L2 NEUTRAL
EUT : PHILIPS 190P5 Serial No:TY0304685
Power : 220VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL FUJITSU PANEL,RUN IBM V1.8
: FONT 14 ARIAL "H" PATTERN,DVI I/F.
: 3. AUDIO WITH HEADPHONE.
: 4. 1280x1024/75Hz 80KHz MODE WITH COMPAQ
: ENC/P866/2OE/8/128A TAI PC,ATI RADEON
: VE DDR VIDEO CAR WAS TESTED.

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

0.450	38.30	---	48.00	0.20	38.50	-9.50	Peak
0.509	38.40	---	48.00	0.23	38.63	-9.37	Peak
0.568	37.10	---	48.00	0.26	37.36	-10.64	Peak
0.686	38.00	---	48.00	0.31	38.31	-9.69	Peak
0.746	38.20	---	48.00	0.33	38.53	-9.47	Peak
0.805	38.00	---	48.00	0.35	38.35	-9.65	Peak
0.864	36.80	---	48.00	0.36	37.16	-10.84	Peak
1.100	37.00	---	48.00	0.40	37.40	-10.60	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:

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

: 20 Dec., 2003 to 23 Dec., 2003

Test Engineer

: C.C.Wu

For detail measurement results see next pages.

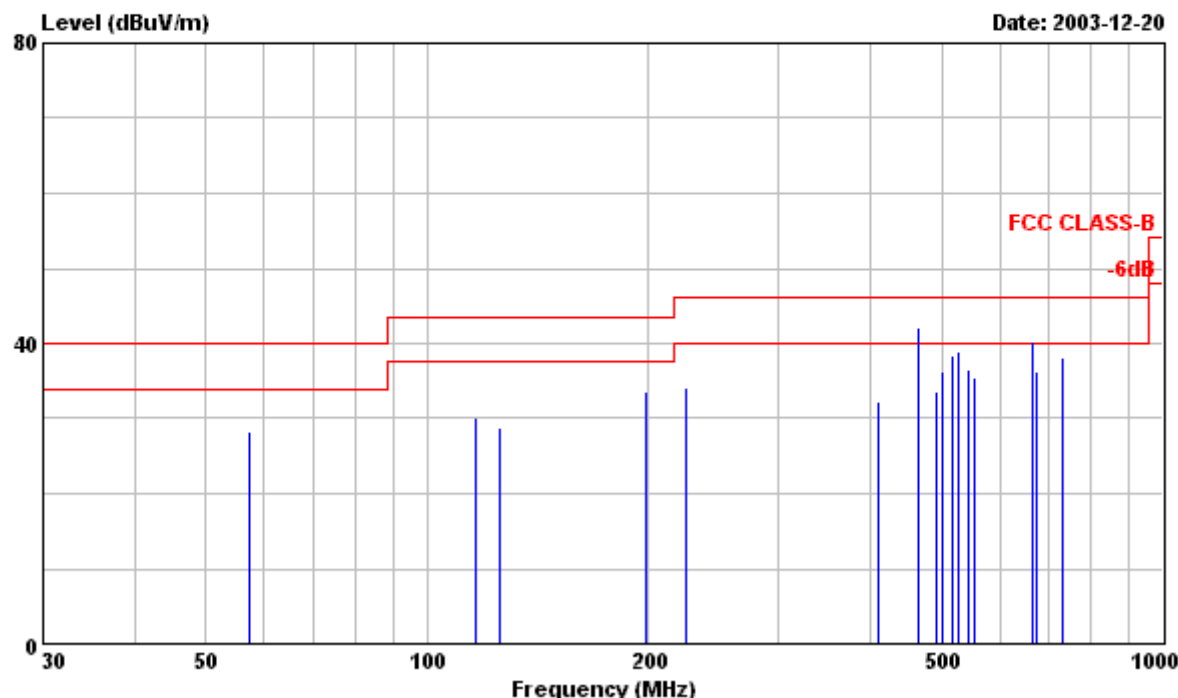


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Data#: 1

File#: C:\Program Files\em3\EMI03-046-R(PHILIPS 190P5).emi



Site : PHILIPS EMI 3M open site
Condition : FCC CLASS-B 3m FCC-3M-FACTOR HORIZONTAL
EUT : PHILIPS 190P5 Serial No:TY0304685
Power : 120-240VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL FUJITSU PANEL,RUN IBM V1.8
: FONT 14 ARIAL "H" PATTERN,D-SUB I/F.
: 3. AUDIO WITH HEADPHONE.
: 4. 1280x1024/75Hz 80KHz MODE WITH COMPAQ
: ENC/P866/2OE/8/128A TAI PC,ATI RADEON
: VE DDR VIDEO CAR 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	
57.280	18.20	---	40.00	10.14	28.34	-11.66	Peak
116.470	17.80	---	43.50	12.23	30.03	-13.47	Peak
125.340	16.30	---	43.50	12.52	28.82	-14.68	Peak
198.230	17.60	---	43.50	16.11	33.71	-9.79	Peak
224.710	16.00	---	46.00	18.47	34.47	-11.53	Peak
409.680	13.70	---	46.00	18.54	32.24	-13.76	Peak
! 466.320	22.90	---	46.00	19.29	42.19	-3.81	Peak
! 466.320	---	21.43	46.00	19.29	40.72	-5.28	QP
493.720	13.90	---	46.00	19.64	33.54	-12.46	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	
502.160	16.50	---	46.00	19.76	36.26	-9.74	Peak
519.070	18.40	---	46.00	20.02	38.42	-7.58	Peak
527.520	18.90	---	46.00	20.16	39.06	-6.94	Peak
543.180	16.20	---	46.00	20.39	36.59	-9.41	Peak
553.620	14.80	---	46.00	20.54	35.34	-10.66	Peak
! 666.150	17.50	---	46.00	22.77	40.27	-5.73	Peak
666.150	---	15.25	46.00	22.77	38.02	-7.98	QP
674.540	13.30	---	46.00	22.98	36.28	-9.72	Peak
732.810	14.10	---	46.00	23.94	38.04	-7.96	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

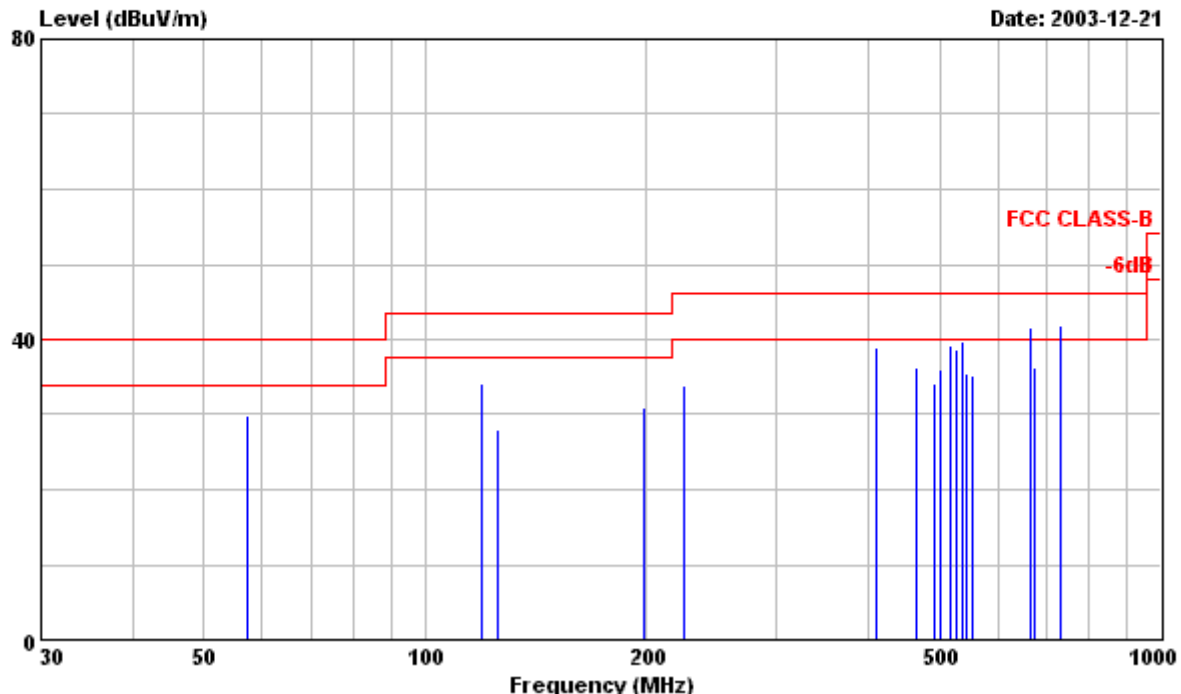


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Data#: 2

File#: C:\Program Files\em3\EMI03-046-R(PHILIPS 190P5).emi



Site : PHILIPS EMI 3M open site
Condition : FCC CLASS-B 3m FCC-3M-FACTOR VERTICAL
EUT : PHILIPS 190P5 Serial No:TY0304685
Power : 120-240VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL FUJITSU PANEL,RUN IBM V1.8
: FONT 14 ARIAL "H" PATTERN,D-SUB I/F.
: 3. AUDIO WITH HEADPHONE.
: 4. 1280x1024/75Hz 80KHz MODE WITH COMPAQ
: ENC/P866/2OE/8/128A TAI PC,ATI RADEON
: VE DDR VIDEO CAR 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	
57.280	19.70	---	40.00	10.14	29.84	-10.16	Peak
119.460	21.90	---	43.50	12.36	34.26	-9.24	Peak
125.340	15.50	---	43.50	12.52	28.02	-15.48	Peak
198.230	14.80	---	43.50	16.11	30.91	-12.59	Peak
224.710	15.30	---	46.00	18.47	33.77	-12.23	Peak
409.680	20.30	---	46.00	18.54	38.84	-7.16	Peak
466.320	17.10	---	46.00	19.29	36.39	-9.61	Peak
493.720	14.40	---	46.00	19.64	34.04	-11.96	Peak
502.160	16.30	---	46.00	19.76	36.06	-9.94	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	
519.070	19.30	---	46.00	20.02	39.32	-6.68	Peak
527.520	18.60	---	46.00	20.16	38.76	-7.24	Peak
535.960	19.40	---	46.00	20.28	39.68	-6.32	Peak
543.180	15.10	---	46.00	20.39	35.49	-10.51	Peak
553.620	14.60	---	46.00	20.54	35.14	-10.86	Peak
! 666.150	18.80	---	46.00	22.77	41.57	-4.43	Peak
666.150	---	16.18	46.00	22.77	38.95	-7.05	QP
674.540	13.20	---	46.00	22.98	36.18	-9.82	Peak
! 732.810	---	16.07	46.00	23.94	40.01	-5.99	QP
! 732.810	17.80	---	46.00	23.94	41.74	-4.26	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

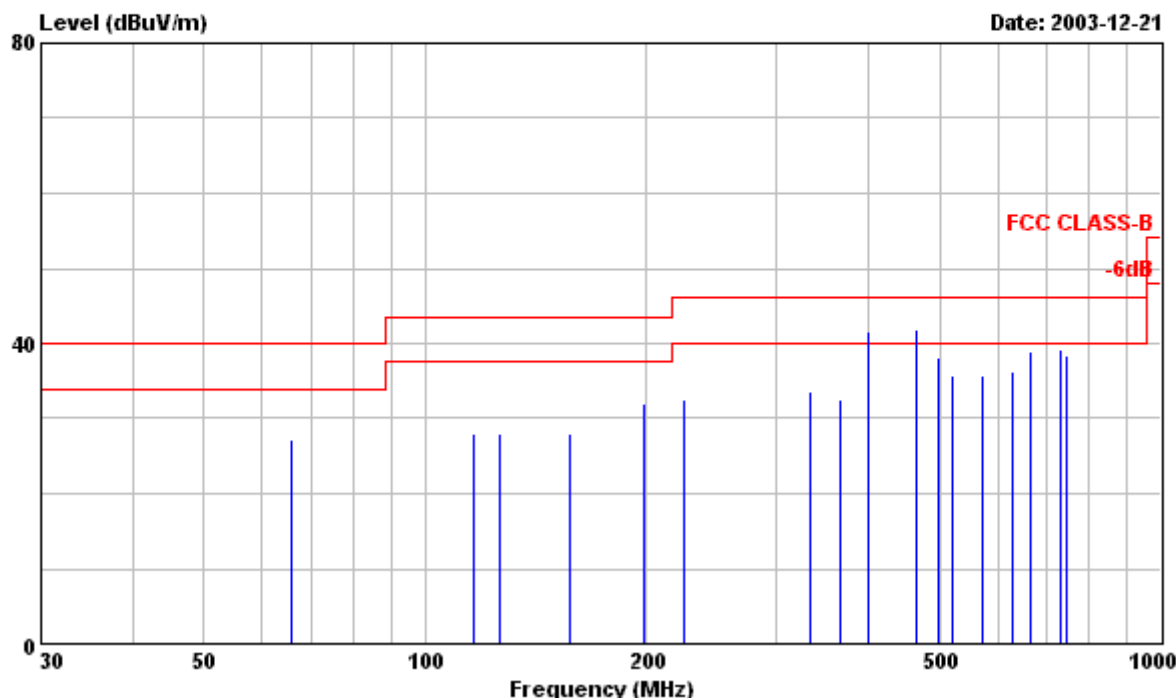


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Data#: 3

File#: C:\Program Files\em3\EMI03-046-R(PHILIPS 190P5).emi



Site : PHILIPS EMI 3M open site
Condition : FCC CLASS-B 3m FCC-3M-FACTOR HORIZONTAL
EUT : PHILIPS 190P5 Serial No:TY0304685
Power : 120-240VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL FUJITSU PANEL,RUN IBM V1.8
: FONT 12 ARIAL "H" PATTERN,D-SUB I/F.
: 3. AUDIO WITH HEADPHONE.
: 4. 1024x768/75Hz 60KHz MODE WITH COMPAQ
: ENC/P866/2OE/8/128A TAI PC,ATI RADEON
: VE DDR VIDEO CAR 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	
65.750	17.30	---	40.00	9.96	27.26	-12.74	Peak
116.070	15.80	---	43.50	12.21	28.01	-15.49	Peak
126.390	15.40	---	43.50	12.55	27.95	-15.55	Peak
157.510	14.30	---	43.50	13.63	27.93	-15.57	Peak
198.230	15.90	---	43.50	16.11	32.01	-11.49	Peak
224.890	14.20	---	46.00	18.47	32.67	-13.33	Peak
333.060	16.40	---	46.00	17.16	33.56	-12.44	Peak
366.390	14.60	---	46.00	17.81	32.41	-13.59	Peak
! 399.690	23.20	---	46.00	18.38	41.58	-4.42	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	
! 399.690	---	21.98	46.00	18.38	40.36	-5.64	QP
! 466.340	---	21.47	46.00	19.29	40.76	-5.24	QP
! 466.340	22.70	---	46.00	19.29	41.99	-4.01	Peak
499.640	18.30	---	46.00	19.70	38.00	-8.00	Peak
519.950	15.70	---	46.00	20.02	35.72	-10.28	Peak
572.320	15.00	---	46.00	20.83	35.83	-10.17	Peak
630.000	14.30	---	46.00	21.93	36.23	-9.77	Peak
666.180	16.20	---	46.00	22.77	38.97	-7.03	Peak
732.820	15.30	---	46.00	23.94	39.24	-6.76	Peak
744.540	14.20	---	46.00	24.12	38.32	-7.68	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)

Tested by : C C.Wu

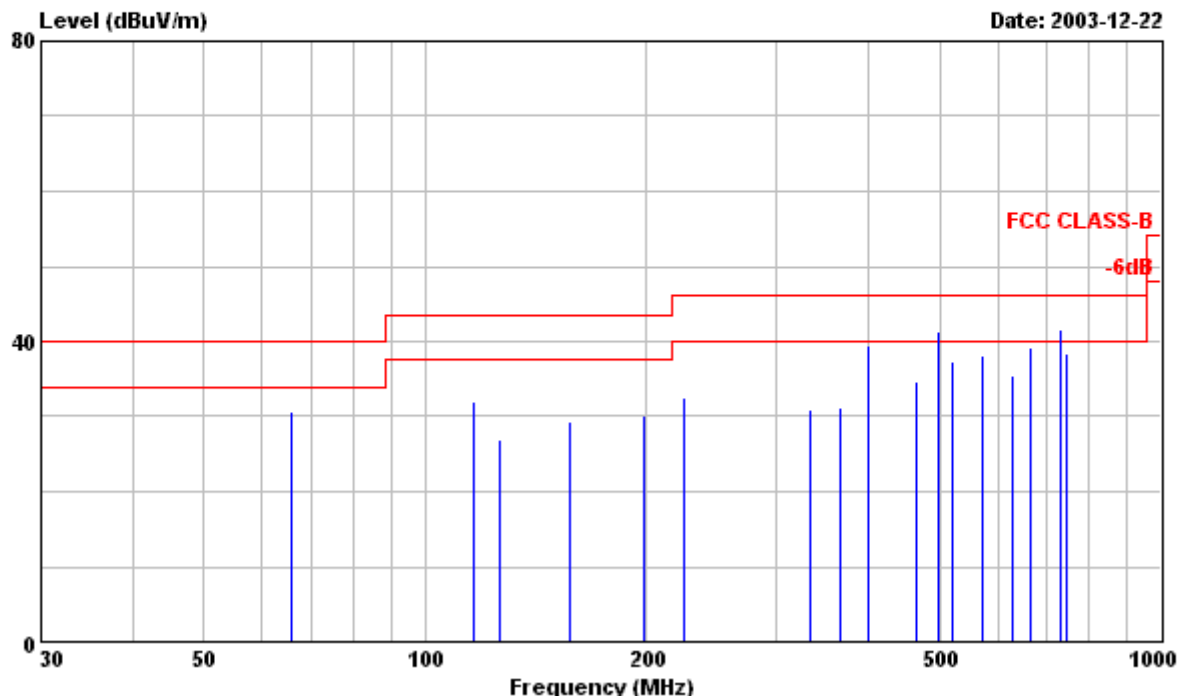


PHILIPS

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Data#: 4

File#: C:\Program Files\em3\EMI03-046-R(PHILIPS 190P5).emi



Site : PHILIPS EMI 3M open site
Condition : FCC CLASS-B 3m FCC-3M-FACTOR VERTICAL
EUT : PHILIPS 190P5 Serial No:TY0304685
Power : 120-240VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL FUJITSU PANEL,RUN IBM V1.8
: FONT 12 ARIAL "H" PATTERN,D-SUB I/F.
: 3. AUDIO WITH HEADPHONE.
: 4. 1024x768/75Hz 60KHz MODE WITH COMPAQ
: ENC/P866/2OE/8/128A TAI PC,ATI RADEON
: VE DDR VIDEO CAR 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	
65.750	20.60	---	40.00	9.96	30.56	-9.44	Peak
116.070	19.80	---	43.50	12.21	32.01	-11.49	Peak
126.390	14.30	---	43.50	12.55	26.85	-16.65	Peak
157.510	15.80	---	43.50	13.63	29.43	-14.07	Peak
198.230	13.90	---	43.50	16.11	30.01	-13.49	Peak
224.890	14.20	---	46.00	18.47	32.67	-13.33	Peak
333.060	13.80	---	46.00	17.16	30.96	-15.04	Peak
366.390	13.40	---	46.00	17.81	31.21	-14.79	Peak
399.690	21.20	---	46.00	18.38	39.58	-6.42	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
MHz	dBuV	dBuV	dBuV/m	dB/m	VERTICAL dBuV/m	dBuV/m	
466.340	15.50	---	46.00	19.29	34.79	-11.21	Peak
! 499.640	21.70	---	46.00	19.70	41.40	-4.60	Peak
! 499.640	---	20.39	46.00	19.70	40.09	-5.91	QP
519.950	17.20	---	46.00	20.02	37.22	-8.78	Peak
572.320	17.29	---	46.00	20.83	38.12	-7.88	Peak
630.000	13.60	---	46.00	21.93	35.53	-10.47	Peak
666.180	16.50	---	46.00	22.77	39.27	-6.73	Peak
732.820	---	15.62	46.00	23.94	39.56	-6.44	QP
! 732.820	17.60	---	46.00	23.94	41.54	-4.46	Peak
744.540	13.20	---	46.00	24.12	37.32	-8.68	Peak
744.540	14.20	---	46.00	24.12	38.32	-7.68	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)

Tested by : C C.Wu

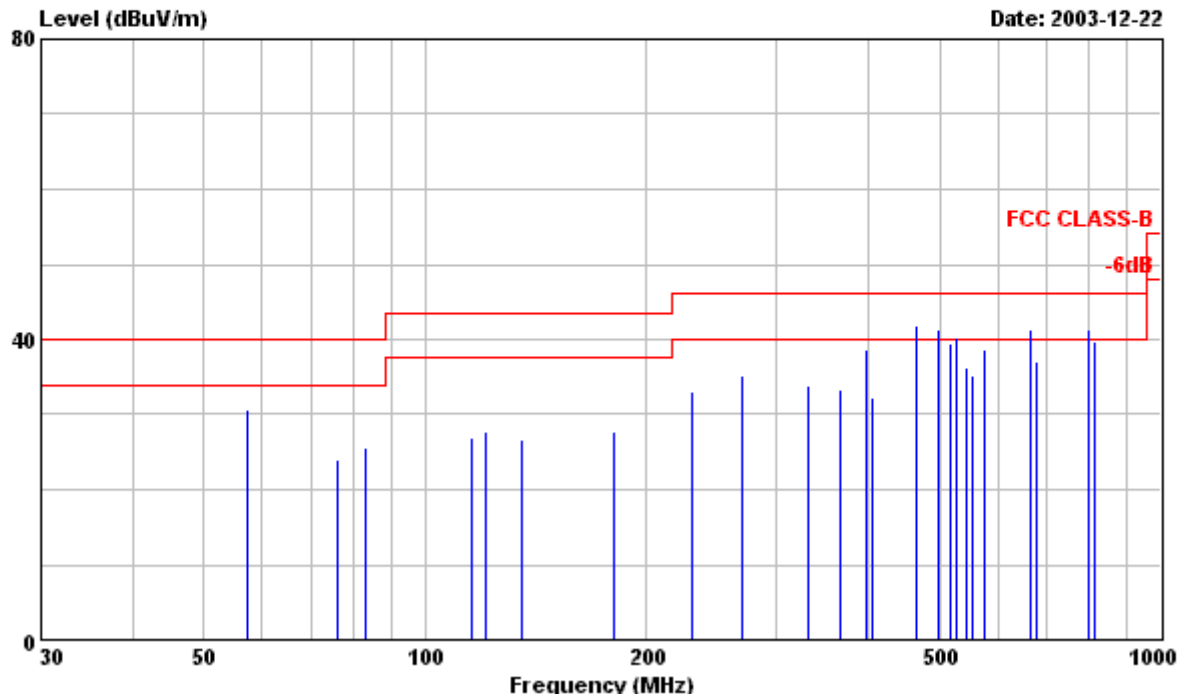


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Data#: 5

File#: C:\Program Files\em3\EMI03-046-R(PHILIPS 190P5).emi



Site : PHILIPS EMI 3M open site
Condition : FCC CLASS-B 3m FCC-3M-FACTOR HORIZONTAL
EUT : PHILIPS 190P5 Serial No:TY0304685
Power : 120-240VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL FUJITSU PANEL,RUN IBM V1.8
: FONT 14 ARIAL "H" PATTERN,DVI I/F.
: 3. AUDIO WITH HEADPHONE.
: 4. 1280x1024/75Hz 80KHz MODE WITH COMPAQ
: ENC/P866/2OE/8/128A TAI PC,ATI RADEON
: VE DDR VIDEO CAR 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	
57.270	20.40	---	40.00	10.14	30.54	-9.46	Peak
75.790	13.90	---	40.00	10.23	24.13	-15.87	Peak
83.130	15.20	---	40.00	10.57	25.77	-14.23	Peak
115.520	14.80	---	43.50	12.17	26.97	-16.53	Peak
120.890	15.40	---	43.50	12.40	27.80	-15.70	Peak
135.030	13.89	---	43.50	12.89	26.78	-16.72	Peak
180.980	13.10	---	43.50	14.53	27.63	-15.87	Peak
229.790	14.20	---	46.00	18.92	33.12	-12.88	Peak
270.020	13.50	---	46.00	21.64	35.14	-10.86	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	
331.450	16.80	---	46.00	17.13	33.93	-12.07	Peak
366.390	15.60	---	46.00	17.81	33.41	-12.59	Peak
397.730	20.30	---	46.00	18.35	38.65	-7.35	Peak
405.700	13.80	---	46.00	18.48	32.28	-13.72	Peak
! 466.320	---	21.19	46.00	19.29	40.48	-5.52	QP
! 466.320	22.50	---	46.00	19.29	41.79	-4.21	Peak
! 499.620	21.70	---	46.00	19.70	41.40	-4.60	Peak
! 499.620	---	20.41	46.00	19.70	40.11	-5.89	QP
519.070	19.40	---	46.00	20.02	39.42	-6.58	Peak
527.540	---	18.62	46.00	20.16	38.78	-7.22	QP
! 527.540	20.00	---	46.00	20.16	40.16	-5.84	Peak
543.180	15.90	---	46.00	20.39	36.29	-9.71	Peak
553.640	14.60	---	46.00	20.54	35.14	-10.86	Peak
576.090	17.70	---	46.00	20.88	38.58	-7.42	Peak
666.170	---	16.21	46.00	22.77	38.98	-7.02	QP
! 666.170	18.60	---	46.00	22.77	41.37	-4.63	Peak
676.150	14.10	---	46.00	22.98	37.08	-8.92	Peak
! 799.460	16.50	---	46.00	24.80	41.30	-4.70	Peak
799.460	---	14.03	46.00	24.80	38.83	-7.17	QP
811.380	14.70	---	46.00	24.98	39.68	-6.32	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

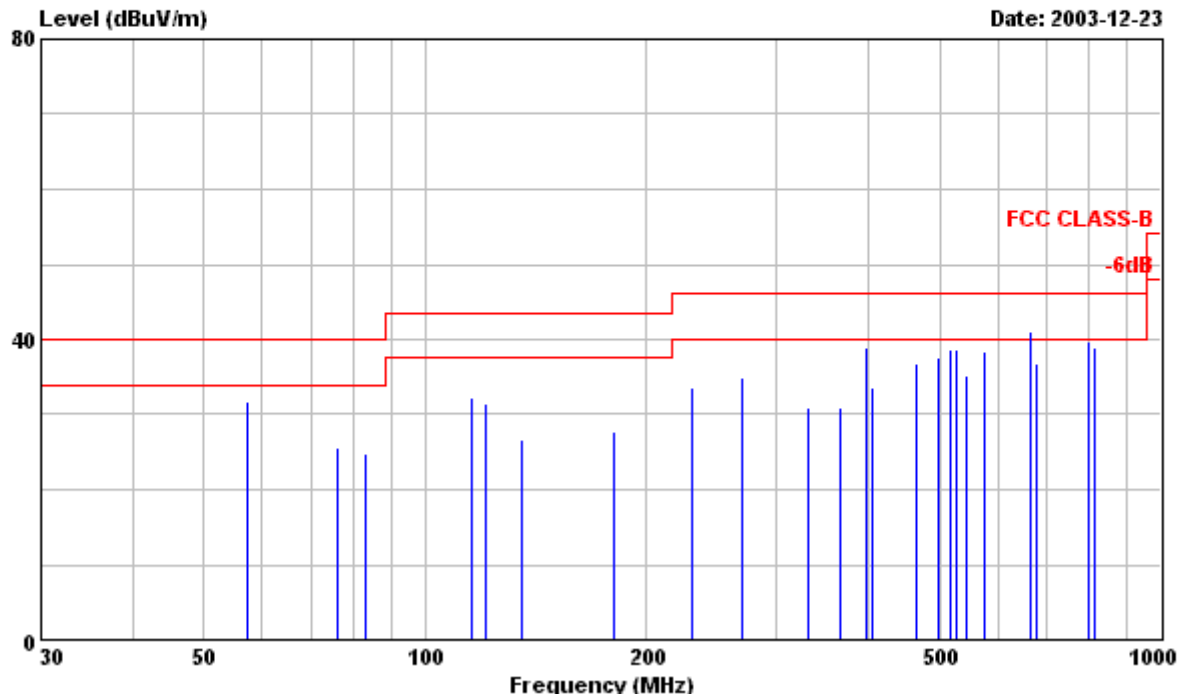


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Data#: 6

File#: C:\Program Files\em3\EMI03-046-R(PHILIPS 190P5).emi



Site : PHILIPS EMI 3M open site
Condition : FCC CLASS-B 3m FCC-3M-FACTOR VERTICAL
EUT : PHILIPS 190P5 Serial No:TY0304685
Power : 120-240VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL FUJITSU PANEL,RUN IBM V1.8
: FONT 14 ARIAL "H" PATTERN,DVI I/F.
: 3. AUDIO WITH HEADPHONE.
: 4. 1280x1024/75Hz 80KHz MODE WITH COMPAQ
: ENC/P866/2OE/8/128A TAI PC,ATI RADEON
: VE DDR VIDEO CAR 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	
57.270	21.60	---	40.00	10.14	31.74	-8.26	Peak
75.790	15.30	---	40.00	10.23	25.53	-14.47	Peak
83.130	14.20	---	40.00	10.57	24.77	-15.23	Peak
115.520	20.20	---	43.50	12.17	32.37	-11.13	Peak
120.890	19.10	---	43.50	12.40	31.50	-12.00	Peak
135.030	13.70	---	43.50	12.89	26.59	-16.91	Peak
180.980	13.30	---	43.50	14.53	27.83	-15.67	Peak
229.790	14.60	---	46.00	18.92	33.52	-12.48	Peak
270.020	13.20	---	46.00	21.64	34.84	-11.16	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
MHz	dBuV	dBuV	dBuV/m	dB/m	VERTICAL dBuV/m	dBuV/m	
331.450	13.90	---	46.00	17.13	31.03	-14.97	Peak
366.390	13.10	---	46.00	17.81	30.91	-15.09	Peak
397.730	20.60	---	46.00	18.35	38.95	-7.05	Peak
405.700	15.10	---	46.00	18.48	33.58	-12.42	Peak
466.320	17.60	---	46.00	19.29	36.89	-9.11	Peak
499.620	17.90	---	46.00	19.70	37.60	-8.40	Peak
519.070	18.70	---	46.00	20.02	38.72	-7.28	Peak
527.540	18.40	---	46.00	20.16	38.56	-7.44	Peak
543.180	14.80	---	46.00	20.39	35.19	-10.81	Peak
576.090	17.50	---	46.00	20.88	38.38	-7.62	Peak
! 666.170	18.30	---	46.00	22.77	41.07	-4.93	Peak
666.170	---	16.55	46.00	22.77	39.32	-6.68	QP
676.150	13.70	---	46.00	22.98	36.68	-9.32	Peak
799.460	14.90	---	46.00	24.80	39.70	-6.30	Peak
811.380	13.90	---	46.00	24.98	38.88	-7.12	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