



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.: TYR87-2045 Date : 26 March, 2003 Page : Page 1 of 32		
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. : A3KM122 Model Name : 150M20P Serial Number : TY0302094 Description : 15" XGA color monitor, Max. resolution 1024x768/75Hz				
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 : 17 Mar. 2003 Date of performance of test : 19 Mar., 2003 to 24 Mar., 2003				
<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, 15" color monitor :

Model No. : 150M20P
 FCC ID : A3KM122
 Brand : PHILIPS

The color monitor automatically scans horizontal frequencies between 30KHz and 61KHz , and vertical frequencies between 56Hz and 75Hz. This color monitor displays sharp and brilliant images of text and graphics with a maximum resolution up to 1024x768 pixels.

The monitor has 11 factory-preset modes as indicated in the following table:

#	Resolution	Frequency	Pixel rate	Sync	Comment
1	640X350	31.5K/70HZ	25.175	(+/-)	IBM VGA
2	720X400	31.5K/70HZ	28.322	(-/+)	IBM VGA
3	640X480	31.5K/60HZ	25.175	(-/-)	IBM VGA
4	640X480	35.0K/67HZ	30.24	(-/-)	MAC
5	640X480	37.5K/75HZ	31.501	(-/-)	VESA
6	800X600	35.2K/56HZ	36	(+/+)	VESA
7	800X600	37.9K/60HZ	40	(+/+)	VESA
8	800X600	46.9K/75HZ	49.498	(+/+)	VESA
9	832X624	49.7K/75HZ	57.28	(+/+)	MAC
10	1024X768	48.4K/60HZ	65	(-/-)	VESA
11	1024X768	60.0K/75HZ	78.75	(-/-)	VESA

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

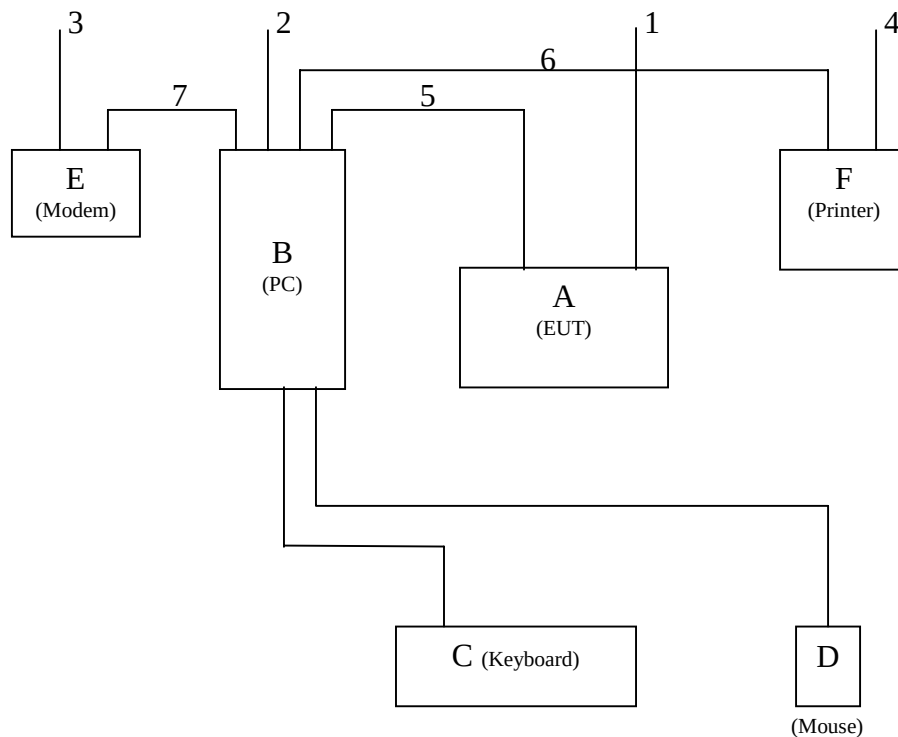
The system was configured for testing in a typical fashion (as a customer would normally use it) according to ANSI C63.4-1992, please see the photographs for detail. For system measurement, the EUT “150M20P” were connected to:

	Description	Brand/ Model No.	Serial No.	FCC ID	Remark
A	Monitor	PHILIPS 150M20P	TY0302094	A3KM122	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 **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.

Audio cable with one ferrite core was used.

Video cable with two ferrite core was used.

Tested and reported modes as following:

Test Item	File No.	Resolution	Frequencies	I/F Cable
Conducted	EMI03-010-C	1024x768	60KHz/75Hz	D-sub
		800x600	46.9KHz/75Hz	D-sub
Radiated	EMI03-010-R	1280x1024	80KHz/75Hz	D-sub
		800x600	46.9KHz/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

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	: 19 Mar., 2003 to 24 Mar., 2003	
Test Engineer	: C.C.Wu	
For detail measurement results see next pages.		

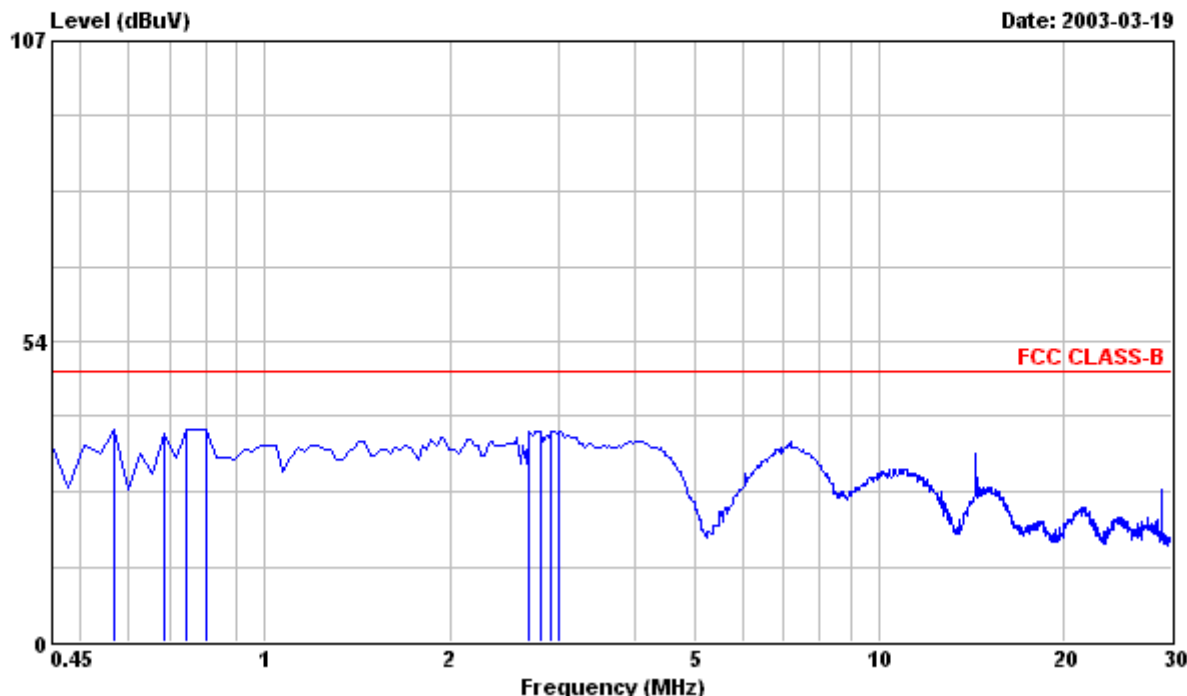


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Data#: 1

File#: C:\Program Files\em3\EMI03-010-C(PHILIPS 150M20P).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L1 LINE
EUT : PHILIPS 150M20P Serial No:TY0302094
Power : 120VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL CPT PANEL,RUN IBM
: V1.8 FONT 14 ARIA "H" PATTERN.
: 3. EXTRA PC AUDIO,S-VHS AUDIO/VIDEO,
: AV IN,COMPONENT,HDTV AUDIO/VIDEO
: & ANT CABLE WERE CONNECTED WITH
: DUMMY LOAD & WITH 2 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							
0.568	37.40	---	48.00	0.26	37.66	-10.34	Peak
0.686	36.90	---	48.00	0.31	37.21	-10.79	Peak
0.746	37.50	---	48.00	0.33	37.83	-10.17	Peak
0.805	37.30	---	48.00	0.35	37.65	-10.35	Peak
2.696	37.10	---	48.00	0.40	37.50	-10.50	Peak
2.814	37.20	---	48.00	0.40	37.60	-10.40	Peak
2.932	37.20	---	48.00	0.40	37.60	-10.40	Peak
3.021	37.00	---	48.00	0.40	37.40	-10.60	Peak

Remarks: 1. All Readings are 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

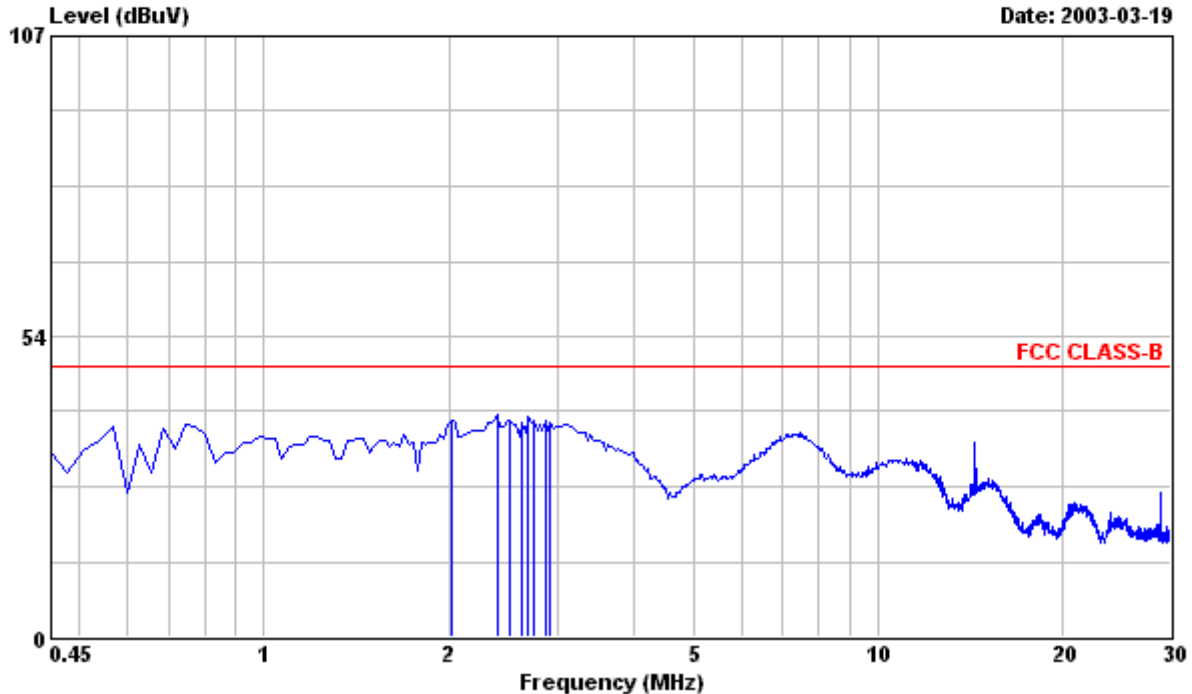


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Data#: 2

File#: C:\Program Files\em3\EMI03-010-C(PHILIPS 150M20P).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L2 NEUTRAL
EUT : PHILIPS 150M20P Serial No:TY0302094
Power : 120VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL CPT PANEL,RUN IBM
: V1.8 FONT 14 ARIA "H" PATTERN.
: 3. EXTRA PC AUDIO,S-VHS AUDIO/VIDEO,
: AV IN,COMPONENT,HDTV AUDIO/VIDEO
: & ANT CABLE WERE CONNECTED WITH
: DUMMY LOAD & WITH 2 HEADPHONE.
: 4. 1024x768/75Hz 60KHz MODE WITH COMPAQ
: ENC/P866/20E/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							
2.016	38.00	---	48.00	0.40	38.40	-9.60	Peak
2.400	39.20	---	48.00	0.40	39.60	-8.40	Peak
2.519	38.10	---	48.00	0.40	38.50	-9.50	Peak
2.637	37.70	---	48.00	0.40	38.10	-9.90	Peak
2.696	38.70	---	48.00	0.40	39.10	-8.90	Peak
2.755	38.20	---	48.00	0.40	38.60	-9.40	Peak
2.873	38.10	---	48.00	0.40	38.50	-9.50	Peak
2.932	37.80	---	48.00	0.40	38.20	-9.80	Peak

Remarks: 1. All Readings are 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

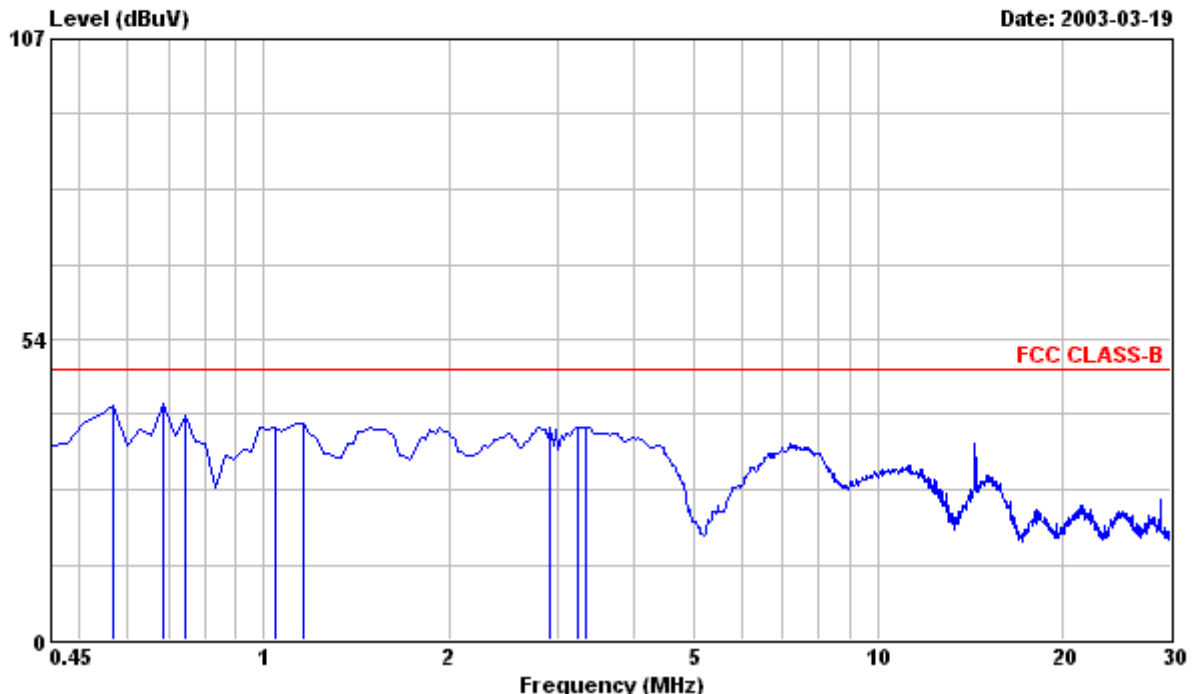


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Data#: 3

File#: C:\Program Files\em3\EMI03-010-C(PHILIPS 150M20P).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L1 LINE
EUT : PHILIPS 150M20P Serial No:TY0302094
Power : 220VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL CPT PANEL,RUN IBM
: V1.8 FONT 14 ARIA "H" PATTERN.
: 3. EXTRA PC AUDIO,S-VHS AUDIO/VIDEO,
: AV IN,COMPONENT,HDTV AUDIO/VIDEO
: & ANT CABLE WERE CONNECTED WITH
: DUMMY LOAD & WITH 2 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
-----------	--------------	------------	-------	--------	----------------	------------	--------

0.568	41.40	---	48.00	0.26	41.66	-6.34	Peak
0.686	41.70	---	48.00	0.31	42.01	-5.99	Peak
0.746	39.60	---	48.00	0.33	39.93	-8.07	Peak
1.041	37.50	---	48.00	0.40	37.90	-10.10	Peak
1.159	38.00	---	48.00	0.40	38.40	-9.60	Peak
2.932	37.30	---	48.00	0.40	37.70	-10.30	Peak
3.257	37.50	---	48.00	0.40	37.90	-10.10	Peak
3.346	37.40	---	48.00	0.40	37.80	-10.20	Peak

Remarks: 1. All Readings are 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

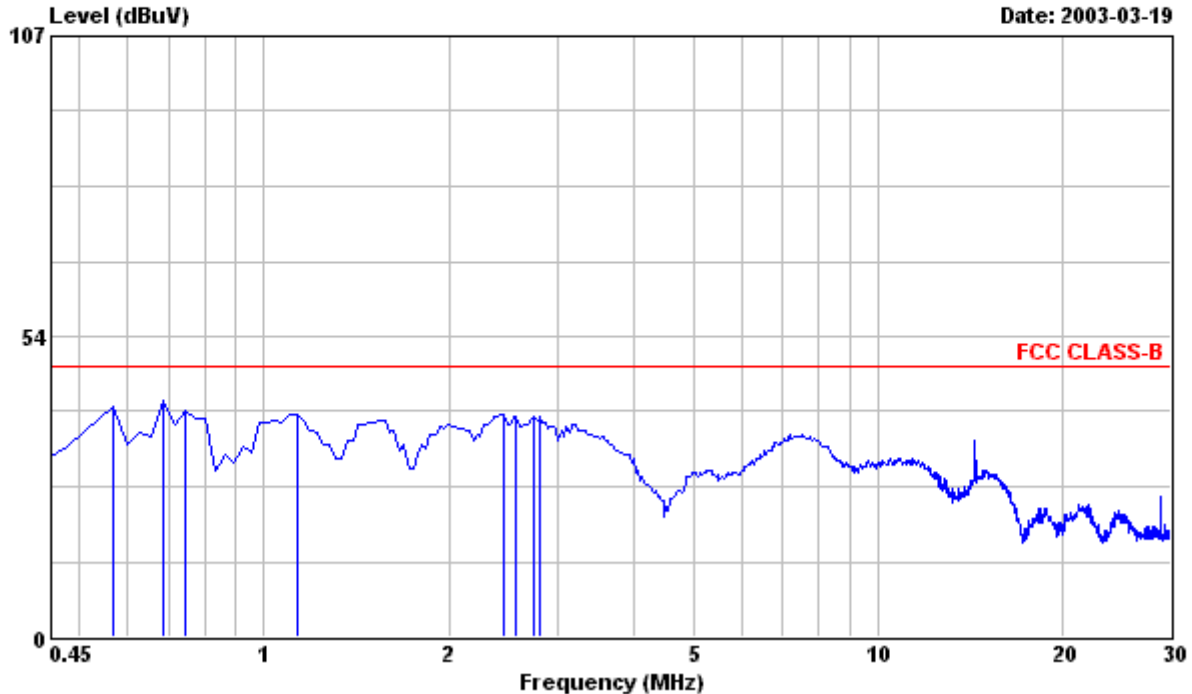


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Data#: 4

File#: C:\Program Files\es\EMIO3-010-C(PHILIPS 150M20P).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L2 NEUTRAL
EUT : PHILIPS 150M20P Serial No:TY0302094
Power : 220VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL CPT PANEL,RUN IBM
: V1.8 FONT 14 ARIA "H" PATTERN.
: 3. EXTRA PC AUDIO,S-VHS AUDIO/VIDEO,
: AV IN,COMPONENT,HDTV AUDIO/VIDEO
: & ANT CABLE WERE CONNECTED WITH
: DUMMY LOAD & WITH 2 HEADPHONE.
: 4. 1024x768/75Hz 60KHz MODE WITH COMPAQ
: ENC/P866/20E/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							
0.568	40.90	---	48.00	0.26	41.16	-6.84	Peak
0.686	41.90	---	48.00	0.31	42.21	-5.79	Peak
0.746	40.00	---	48.00	0.33	40.33	-7.67	Peak
1.130	39.10	---	48.00	0.40	39.50	-8.50	Peak
2.459	39.10	---	48.00	0.40	39.50	-8.50	Peak
2.578	38.90	---	48.00	0.40	39.30	-8.70	Peak
2.755	38.90	---	48.00	0.40	39.30	-8.70	Peak
2.814	38.90	---	48.00	0.40	39.30	-8.70	Peak

Remarks: 1. All Readings are 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

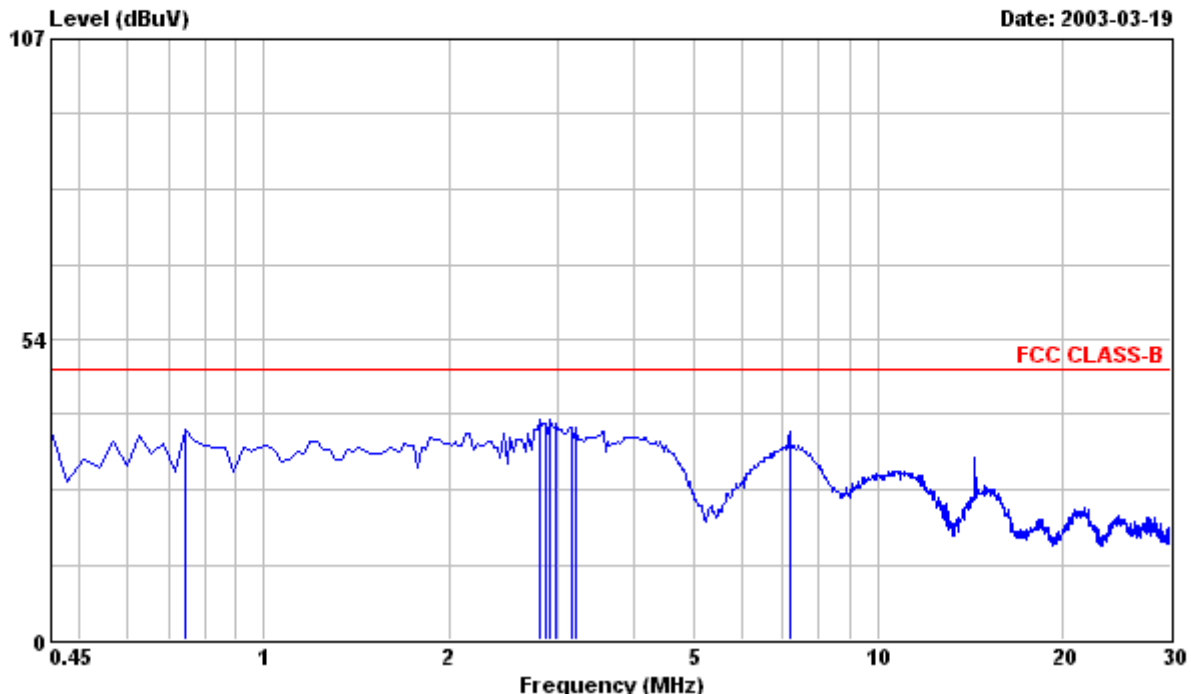


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Data#: 5

File#: C:\Program Files\em3\EMI03-010-C(PHILIPS 150M20P).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L1 LINE
EUT : PHILIPS 150M20P Serial No:TY0302094
Power : 120VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL CPT PANEL,RUN IBM
: V1.8 FONT 12 "H" PATTERN.
: 3. EXTRA PC AUDIO,S-VHS AUDIO/VIDEO,
: AV IN,COMPONENT,HDTV AUDIO/VIDEO
: & ANT CABLE WERE CONNECTED WITH
: DUMMY LOAD & WITH 2 HEADPHONE.
: 4. 800x600/75Hz 46.9KHz 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
-----------	--------------	------------	-------	--------	----------------	------------	--------

0.746	37.20	---	48.00	0.33	37.53	-10.47	Peak
2.814	39.00	---	48.00	0.40	39.40	-8.60	Peak
2.873	38.00	---	48.00	0.40	38.40	-9.60	Peak
2.932	38.70	---	48.00	0.40	39.10	-8.90	Peak
2.991	38.00	---	48.00	0.40	38.40	-9.60	Peak
3.169	37.40	---	48.00	0.40	37.80	-10.20	Peak
3.228	37.40	---	48.00	0.40	37.80	-10.20	Peak
7.187	36.80	---	48.00	0.40	37.20	-10.80	Peak

Remarks: 1. All Readings are 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

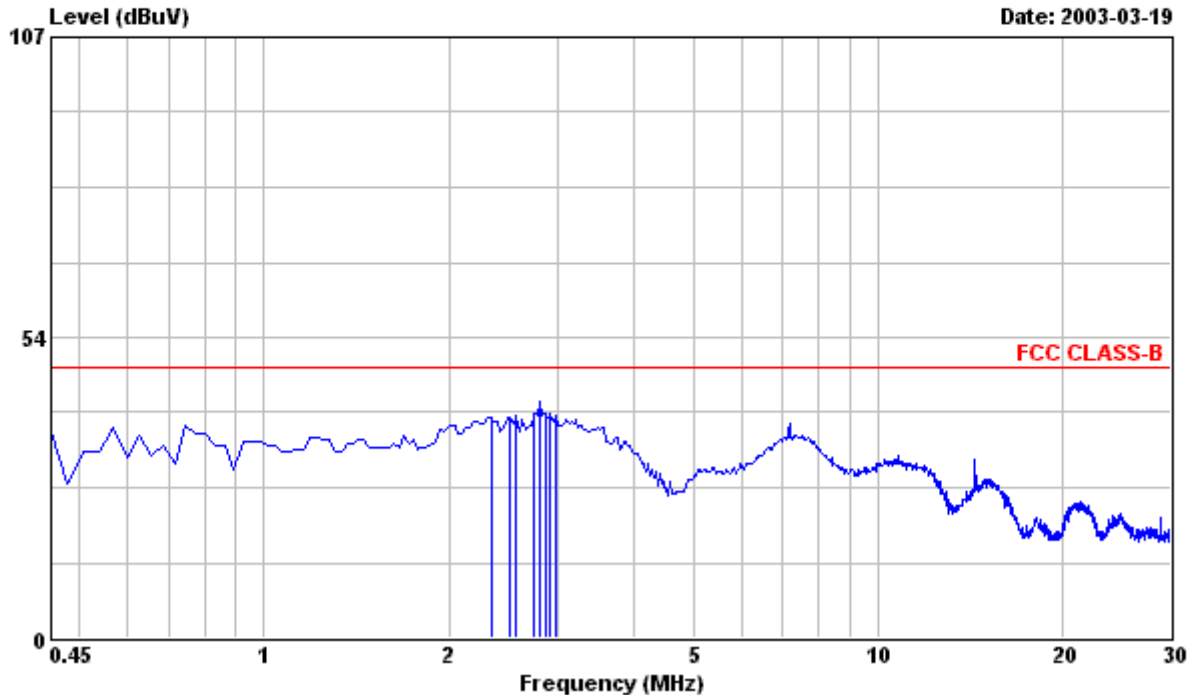


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Data#: 6

File#: C:\Program Files\em3\EMI03-010-C(PHILIPS 150M20P).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L2 NEUTRAL
EUT : PHILIPS 150M20P Serial No:TY0302094
Power : 120VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL CPT PANEL,RUN IBM
: V1.8 FONT 12 "H" PATTERN.
: 3. EXTRA PC AUDIO,S-VHS AUDIO/VIDEO,
: AV IN,COMPONENT,HDTV AUDIO/VIDEO
: & ANT CABLE WERE CONNECTED WITH
: DUMMY LOAD & WITH 2 HEADPHONE.
: 4. 800x600/75Hz 46.9KHz MODE WITH COMPAQ
: ENC/P866/20E/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							

2.341	38.70	---	48.00	0.40	39.10	-8.90	Peak
2.519	38.90	---	48.00	0.40	39.30	-8.70	Peak
2.578	39.20	---	48.00	0.40	39.60	-8.40	Peak
2.755	39.70	---	48.00	0.40	40.10	-7.90	Peak
2.814	41.70	---	48.00	0.40	42.10	-5.90	Peak
2.873	39.50	---	48.00	0.40	39.90	-8.10	Peak
2.932	39.50	---	48.00	0.40	39.90	-8.10	Peak
2.991	39.30	---	48.00	0.40	39.70	-8.30	Peak

Remarks: 1. All Readings are 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

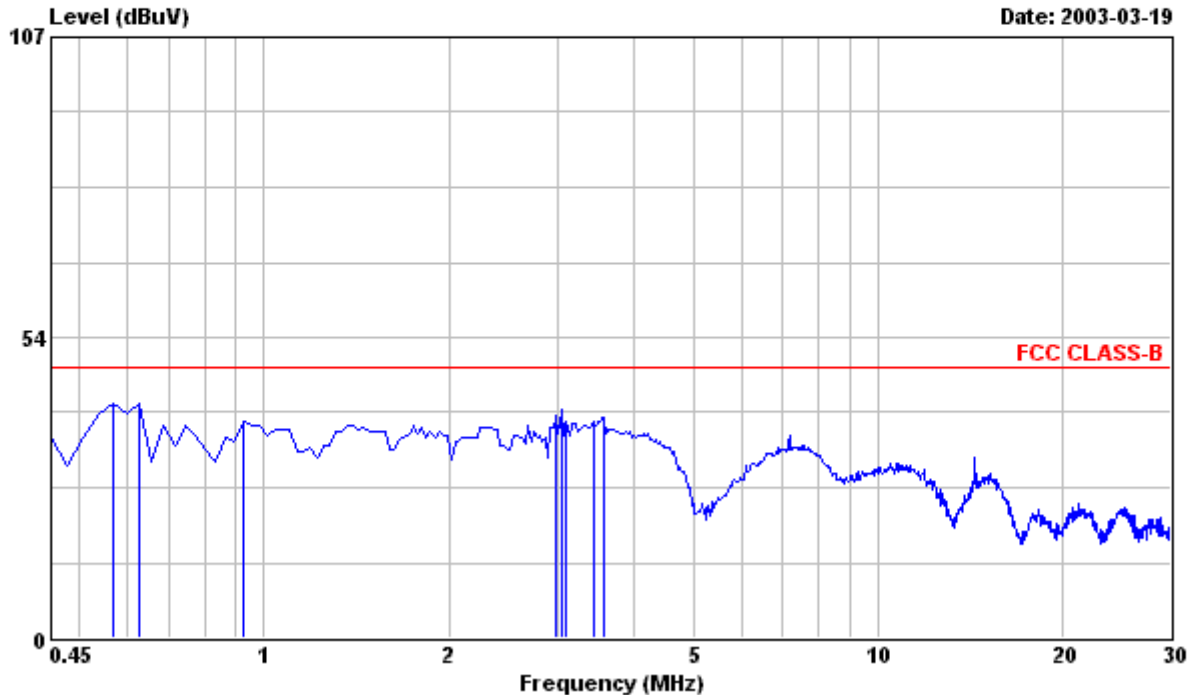


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Data#: 7

File#: C:\Program Files\em3\EMI03-010-C(PHILIPS 150M20P).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L1 LINE
EUT : PHILIPS 150M20P Serial No:TY0302094
Power : 220VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL CPT PANEL,RUN IBM
: V1.8 FONT 12 "H" PATTERN.
: 3. EXTRA PC AUDIO,S-VHS AUDIO/VIDEO,
: AV IN,COMPONENT,HDTV AUDIO/VIDEO
: & ANT CABLE WERE CONNECTED WITH
: DUMMY LOAD & WITH 2 HEADPHONE.
: 4. 800x600/75Hz 46.9KHz 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
-----------	--------------	------------	-------	--------	----------------	------------	--------

0.568	41.40	---	48.00	0.26	41.66	-6.34	Peak
0.627	41.30	---	48.00	0.28	41.58	-6.42	Peak
0.923	38.00	---	48.00	0.38	38.38	-9.62	Peak
2.991	39.30	---	48.00	0.40	39.70	-8.30	Peak
3.050	40.10	---	48.00	0.40	40.50	-7.50	Peak
3.110	38.20	---	48.00	0.40	38.60	-9.40	Peak
3.435	38.00	---	48.00	0.40	38.40	-9.60	Peak
3.582	39.00	---	48.00	0.40	39.40	-8.60	Peak

Remarks: 1. All Readings are 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

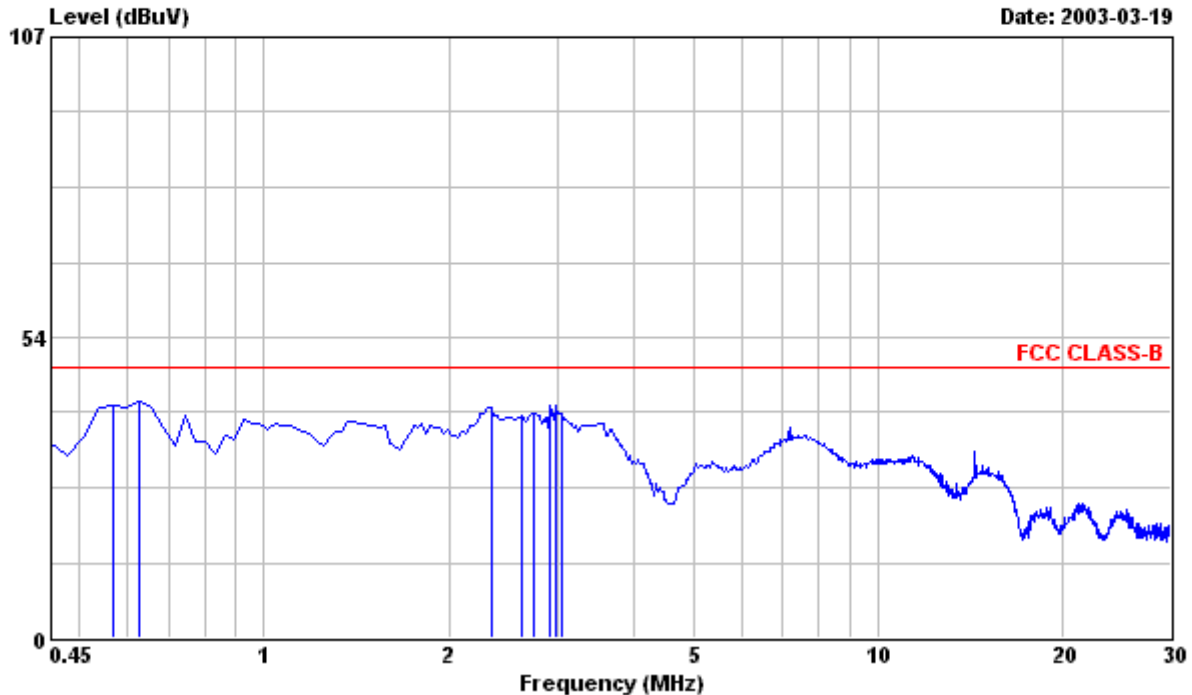


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Data#: 8

File#: C:\Program Files\em3\EMI03-010-C(PHILIPS 150M20P).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L2 NEUTRAL
EUT : PHILIPS 150M20P Serial No:TY0302094
Power : 220VAC
Memo :

1. EMI EVALUATION FOR FCC SAMPLE.
2. 2ND MODEL CPT PANEL,RUN IBM
V1.8 FONT 12 "H" PATTERN.
3. EXTRA PC AUDIO,S-VHS AUDIO/VIDEO,
AV IN,COMPONENT,HDTV AUDIO/VIDEO
& ANT CABLE WERE CONNECTED WITH
DUMMY LOAD & WITH 2 HEADPHONE.
4. 800x600/75Hz 46.9KHz 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							

0.568	41.20	---	48.00	0.26	41.46	-6.54	Peak
0.627	41.90	---	48.00	0.28	42.18	-5.82	Peak
2.341	40.70	---	48.00	0.40	41.10	-6.90	Peak
2.637	39.10	---	48.00	0.40	39.50	-8.50	Peak
2.755	39.60	---	48.00	0.40	40.00	-8.00	Peak
2.932	40.80	---	48.00	0.40	41.20	-6.80	Peak
2.991	41.00	---	48.00	0.40	41.40	-6.60	Peak
3.050	39.70	---	48.00	0.40	40.10	-7.90	Peak

Remarks: 1. All Readings are 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

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		: 19 Mar., 2003 to 24 Mar., 2003
Test Engineer		: C.C.Wu
For detail measurement results see next pages.		

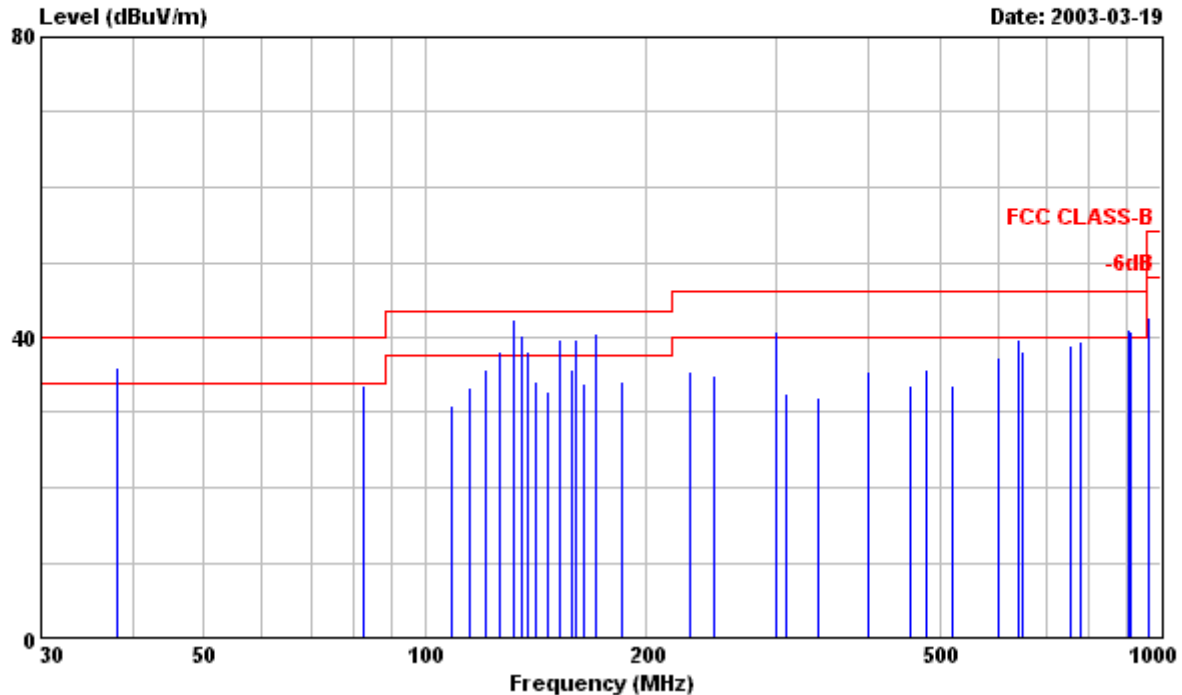


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Data#: 1

File#: C:\Program Files\em3\EMI03-010-R.emi



Site : PHILIPS EMI 3M open site
Condition : FCC CLASS-B 3m FCC-3M-FACTOR HORIZONTAL
EUT : PHILIPS 150M20P Serial No:TY0302094
Power : 120-240VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL CPT PANEL,RUN IBM
: V1.8 FONT 14 ARIA "H" PATTERN.
: 3. EXTRA PC AUDIO,S-VHS AUDIO/VIDEO,
: AV IN,COMPONENT,HDTV AUDIO/VIDEO
: & ANT CABLE WERE CONNECTED WITH
: DUMMY LOAD & WITH 2 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	
! 38.188	---	21.90	40.00	12.58	34.48	-5.52	QP
! 38.190	23.30	---	40.00	12.58	35.88	-4.12	Peak
82.260	23.10	---	40.00	10.52	33.62	-6.38	Peak
108.670	19.10	---	43.50	11.85	30.95	-12.55	Peak
114.550	21.19	---	43.50	12.14	33.33	-10.17	Peak
120.430	23.30	---	43.50	12.39	35.69	-7.81	Peak
! 126.310	25.70	---	43.50	12.55	38.25	-5.25	Peak
126.310	---	23.93	43.50	12.55	36.48	-7.02	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)



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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	
! 132.170	---	28.40	43.50	12.78	41.18	-2.32	QP
! 132.170	29.70	---	43.50	12.78	42.48	-1.02	Peak
! 135.120	27.40	---	43.50	12.89	40.29	-3.21	Peak
! 135.120	---	25.91	43.50	12.89	38.80	-4.70	QP
! 138.060	25.10	---	43.50	12.99	38.09	-5.41	Peak
138.060	---	23.98	43.50	12.99	36.97	-6.53	QP
140.980	21.09	---	43.50	13.10	34.19	-9.31	Peak
146.870	19.40	---	43.50	13.31	32.71	-10.79	Peak
! 152.730	26.30	---	43.50	13.49	39.79	-3.71	Peak
! 152.730	---	25.09	43.50	13.49	38.58	-4.92	QP
158.620	22.20	---	43.50	13.66	35.86	-7.64	Peak
! 160.070	25.90	---	43.50	13.71	39.61	-3.89	Peak
! 160.070	---	24.13	43.50	13.71	37.84	-5.66	QP
164.480	20.00	---	43.50	13.82	33.82	-9.68	Peak
! 170.360	---	25.00	43.50	13.97	38.97	-4.53	QP
! 170.360	26.50	---	43.50	13.97	40.47	-3.03	Peak
185.050	19.10	---	43.50	14.91	34.01	-9.49	Peak
229.090	16.70	---	46.00	18.86	35.56	-10.44	Peak
246.720	14.80	---	46.00	20.24	35.04	-10.96	Peak
! 300.690	17.70	---	46.00	23.20	40.90	-5.10	Peak
300.690	---	15.76	46.00	23.20	38.96	-7.04	QP
310.240	15.90	---	46.00	16.69	32.59	-13.41	Peak
341.260	14.60	---	46.00	17.32	31.92	-14.08	Peak
400.920	17.20	---	46.00	18.40	35.60	-10.40	Peak
456.020	14.40	---	46.00	19.16	33.56	-12.44	Peak
480.210	16.30	---	46.00	19.47	35.77	-10.23	Peak
520.000	13.60	---	46.00	20.05	33.65	-12.35	Peak
601.370	16.10	---	46.00	21.25	37.35	-8.65	Peak
640.270	17.50	---	46.00	22.19	39.69	-6.31	Peak
649.980	15.60	---	46.00	22.40	38.00	-8.00	Peak
756.000	14.60	---	46.00	24.25	38.85	-7.15	Peak
780.000	15.00	---	46.00	24.56	39.56	-6.44	Peak
902.050	---	11.80	46.00	26.34	38.14	-7.86	QP
! 902.050	14.70	---	46.00	26.34	41.04	-4.96	Peak
! 909.980	14.30	---	46.00	26.43	40.73	-5.27	Peak
909.980	---	11.70	46.00	26.43	38.13	-7.87	QP
960.420	15.60	---	54.00	27.08	42.68	-11.32	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

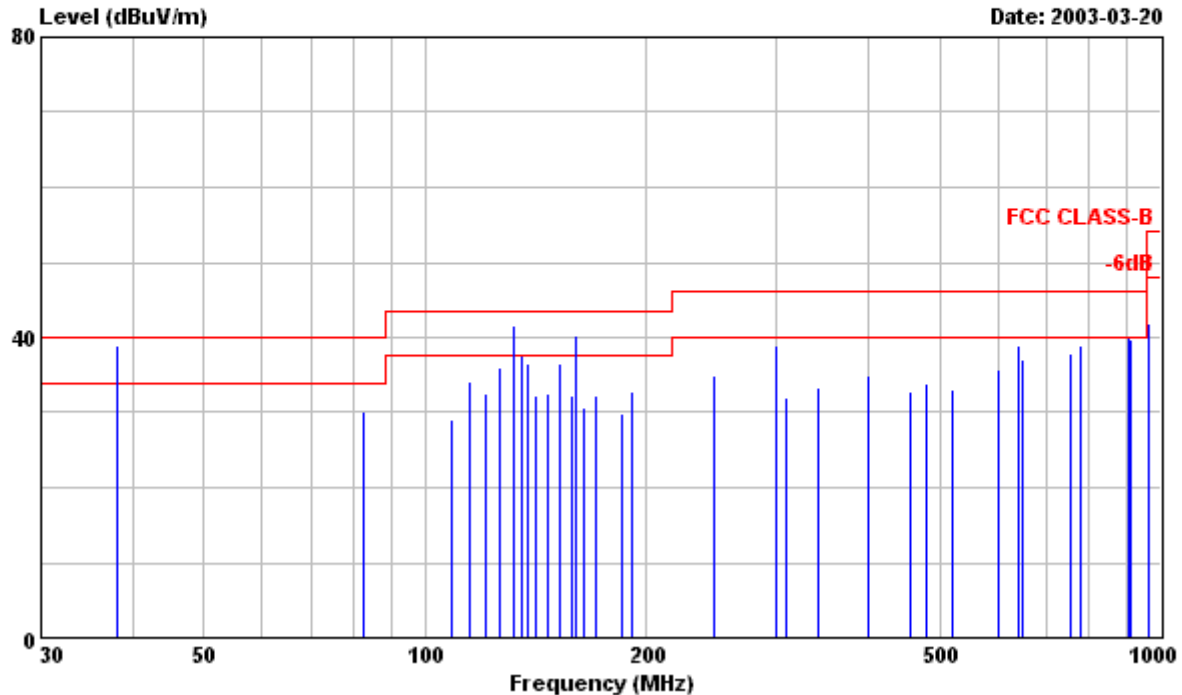


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Data#: 2

File#: C:\Program Files\em3\EMI03-010-R.emi



Site : PHILIPS EMI 3M open site
Condition : FCC CLASS-B 3m FCC-3M-FACTOR VERTICAL
EUT : PHILIPS 150M20P Serial No:TY0302094
Power : 120-240VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL CPT PANEL,RUN IBM
: V1.8 FONT 14 ARIA "H" PATTERN.
: 3. EXTRA PC AUDIO,S-VHS AUDIO/VIDEO,
: AV IN,COMPONENT,HDTV AUDIO/VIDEO
: & ANT CABLE WERE CONNECTED WITH
: DUMMY LOAD & WITH 2 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	
! 38.190	26.40	---	40.00	12.58	38.98	-1.02	Peak
! 38.190	---	25.00	40.00	12.58	37.58	-2.42	QP
82.260	19.60	---	40.00	10.52	30.12	-9.88	Peak
108.670	17.20	---	43.50	11.85	29.05	-14.45	Peak
114.550	21.89	---	43.50	12.14	34.03	-9.47	Peak
120.430	20.10	---	43.50	12.39	32.49	-11.01	Peak
126.310	23.50	---	43.50	12.55	36.05	-7.45	Peak
! 132.170	28.70	---	43.50	12.78	41.48	-2.02	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	
! 132.170	---	27.50	43.50	12.78	40.28	-3.22	QP
! 135.120	24.69	---	43.50	12.89	37.58	-5.92	Peak
135.120	---	22.30	43.50	12.89	35.19	-8.31	QP
138.060	23.50	---	43.50	12.99	36.49	-7.01	Peak
140.980	19.09	---	43.50	13.10	32.19	-11.31	Peak
146.870	19.29	---	43.50	13.31	32.60	-10.90	Peak
152.730	23.10	---	43.50	13.49	36.59	-6.91	Peak
158.620	18.70	---	43.50	13.66	32.36	-11.14	Peak
! 160.070	26.50	---	43.50	13.71	40.21	-3.29	Peak
! 160.070	---	25.40	43.50	13.71	39.11	-4.39	QP
164.480	16.90	---	43.50	13.82	30.72	-12.78	Peak
170.360	18.30	---	43.50	13.97	32.27	-11.23	Peak
185.050	15.00	---	43.50	14.91	29.91	-13.59	Peak
190.910	17.40	---	43.50	15.48	32.88	-10.62	Peak
246.720	14.60	---	46.00	20.24	34.84	-11.16	Peak
300.690	15.80	---	46.00	23.20	39.00	-7.00	Peak
310.240	15.20	---	46.00	16.69	31.89	-14.11	Peak
341.260	16.10	---	46.00	17.32	33.42	-12.58	Peak
400.920	16.40	---	46.00	18.40	34.80	-11.20	Peak
456.020	13.70	---	46.00	19.16	32.86	-13.14	Peak
480.210	14.30	---	46.00	19.47	33.77	-12.23	Peak
520.000	13.10	---	46.00	20.05	33.15	-12.85	Peak
601.370	14.50	---	46.00	21.25	35.75	-10.25	Peak
640.270	16.80	---	46.00	22.19	38.99	-7.01	Peak
649.980	14.70	---	46.00	22.40	37.10	-8.90	Peak
756.000	13.60	---	46.00	24.25	37.85	-8.15	Peak
780.000	14.50	---	46.00	24.56	39.06	-6.94	Peak
902.050	13.60	---	46.00	26.34	39.94	-6.06	Peak
909.980	13.30	---	46.00	26.43	39.73	-6.27	Peak
960.420	14.70	---	54.00	27.08	41.78	-12.22	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

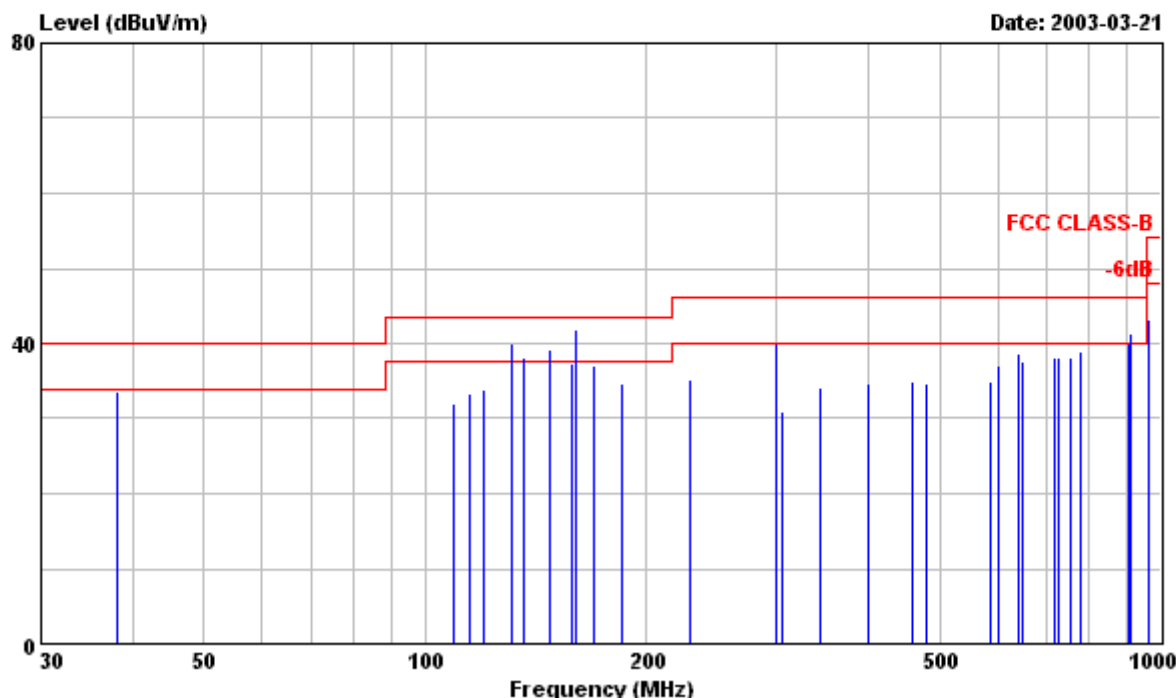


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Data#: 3

File#: C:\Program Files\em3\EMI03-010-R.emi



Site : PHILIPS EMI 3M open site
Condition : FCC CLASS-B 3m FCC-3M-FACTOR HORIZONTAL
EUT : PHILIPS 150M20P Serial No:TY0302094
Power : 120-240VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL CPT PANEL,RUN IBM
: V1.8 FONT 12 ARIA "H" PATTERN.
: 3. EXTRA PC AUDIO,S-VHS AUDIO/VIDEO,
: AV IN,COMPONENT,HDTV AUDIO/VIDEO
: & ANT CABLE WERE CONNECTED WITH
: DUMMY LOAD & WITH 2 HEADPHONE.
: 4. 800x600/75Hz 46.9KHz 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	
38.190	20.90	---	40.00	12.58	33.48	-6.52	Peak
109.130	20.20	---	43.50	11.87	32.07	-11.43	Peak
114.560	21.10	---	43.50	12.14	33.24	-10.26	Peak
119.980	21.40	---	43.50	12.38	33.78	-9.72	Peak
! 130.830	---	26.49	43.50	12.73	39.22	-4.28	QP
! 130.830	27.40	---	43.50	12.73	40.13	-3.37	Peak
136.470	---	23.39	43.50	12.94	36.33	-7.17	QP
! 136.470	25.20	---	43.50	12.94	38.14	-5.36	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	
! 147.300	---	24.84	43.50	13.32	38.16	-5.34	QP
! 147.300	25.90	---	43.50	13.32	39.22	-4.28	Peak
158.160	23.60	---	43.50	13.65	37.25	-6.25	Peak
! 160.080	28.20	---	43.50	13.71	41.91	-1.59	Peak
! 160.080	---	27.21	43.50	13.71	40.92	-2.58	QP
169.000	23.10	---	43.50	13.94	37.04	-6.46	Peak
185.500	19.60	---	43.50	14.97	34.57	-8.93	Peak
229.090	16.30	---	46.00	18.86	35.16	-10.84	Peak
! 300.690	16.80	---	46.00	23.20	40.00	-6.00	Peak
305.460	14.40	---	46.00	16.59	30.99	-15.01	Peak
343.650	16.90	---	46.00	17.37	34.27	-11.73	Peak
400.910	16.30	---	46.00	18.40	34.70	-11.30	Peak
458.190	15.70	---	46.00	19.18	34.88	-11.12	Peak
480.210	15.20	---	46.00	19.47	34.67	-11.33	Peak
585.000	13.80	---	46.00	21.00	34.80	-11.20	Peak
601.360	15.80	---	46.00	21.25	37.05	-8.95	Peak
640.270	16.60	---	46.00	22.19	38.79	-7.21	Peak
649.980	15.10	---	46.00	22.40	37.50	-8.50	Peak
715.000	14.50	---	46.00	23.71	38.21	-7.79	Peak
725.460	14.20	---	46.00	23.84	38.04	-7.96	Peak
756.000	14.00	---	46.00	24.25	38.25	-7.75	Peak
780.000	14.40	---	46.00	24.56	38.96	-7.04	Peak
! 902.050	13.70	---	46.00	26.34	40.04	-5.96	Peak
902.050	---	10.80	46.00	26.34	37.14	-8.86	QP
! 909.980	14.80	---	46.00	26.43	41.23	-4.77	Peak
909.980	---	11.90	46.00	26.43	38.33	-7.67	QP
960.420	16.10	---	54.00	27.08	43.18	-10.82	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

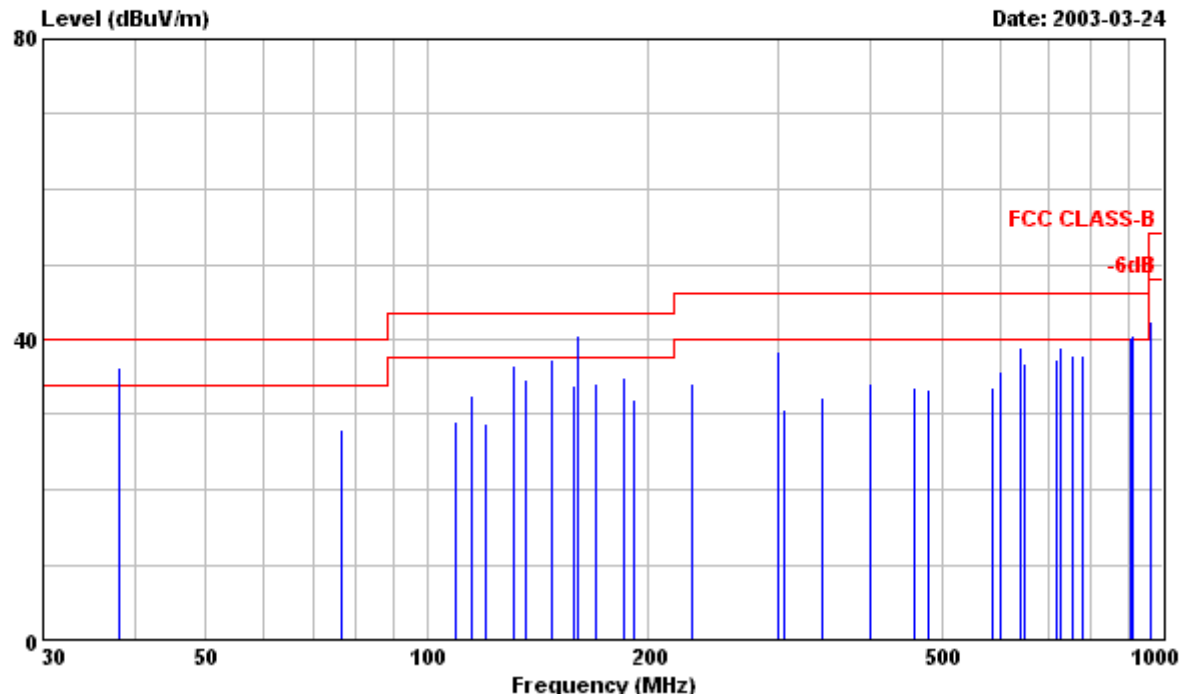


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Data#: 4

File#: C:\Program Files\em3\EMI03-010-R.emi



Site : PHILIPS EMI 3M open site
Condition : FCC CLASS-B 3m FCC-3M-FACTOR VERTICAL
EUT : PHILIPS 150M20P Serial No:TY0302094
Power : 120-240VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL CPT PANEL,RUN IBM
: V1.8 FONT 12 ARIA "H" PATTERN.
: 3. EXTRA PC AUDIO,S-VHS AUDIO/VIDEO,
: AV IN,COMPONENT,HDTV AUDIO/VIDEO
: & ANT CABLE WERE CONNECTED WITH
: DUMMY LOAD & WITH 2 HEADPHONE.
: 4. 800x600/75Hz 46.9KHz 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	
! 38.190	23.60	---	40.00	12.58	36.18	-3.82	Peak
! 38.190	---	22.20	40.00	12.58	34.78	-5.22	QP
76.360	17.80	---	40.00	10.25	28.05	-11.95	Peak
109.130	17.10	---	43.50	11.87	28.97	-14.53	Peak
114.560	20.50	---	43.50	12.14	32.64	-10.86	Peak
119.980	16.40	---	43.50	12.38	28.78	-14.72	Peak
130.830	23.90	---	43.50	12.73	36.63	-6.87	Peak
136.470	21.80	---	43.50	12.94	34.74	-8.76	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	
147.300	24.10	---	43.50	13.32	37.42	-6.08	Peak
158.160	20.10	---	43.50	13.65	33.75	-9.75	Peak
! 160.080	---	25.50	43.50	13.71	39.21	-4.29	QP
! 160.080	26.70	---	43.50	13.71	40.41	-3.09	Peak
169.000	20.10	---	43.50	13.94	34.04	-9.46	Peak
185.500	19.90	---	43.50	14.97	34.87	-8.63	Peak
190.910	16.60	---	43.50	15.48	32.08	-11.42	Peak
229.090	15.60	---	46.00	18.86	34.46	-11.54	Peak
300.690	15.10	---	46.00	23.20	38.30	-7.70	Peak
305.460	14.20	---	46.00	16.59	30.79	-15.21	Peak
343.650	14.80	---	46.00	17.37	32.17	-13.83	Peak
400.910	15.80	---	46.00	18.40	34.20	-11.80	Peak
458.190	14.50	---	46.00	19.18	33.68	-12.32	Peak
480.210	13.90	---	46.00	19.47	33.37	-12.63	Peak
585.000	12.70	---	46.00	21.00	33.70	-12.30	Peak
601.360	14.40	---	46.00	21.25	35.65	-10.35	Peak
640.270	16.80	---	46.00	22.19	38.99	-7.01	Peak
649.980	14.30	---	46.00	22.40	36.70	-9.30	Peak
715.000	13.70	---	46.00	23.71	37.41	-8.59	Peak
725.460	15.00	---	46.00	23.84	38.84	-7.16	Peak
756.000	13.70	---	46.00	24.25	37.95	-8.05	Peak
780.000	13.40	---	46.00	24.56	37.96	-8.04	Peak
! 902.050	13.80	---	46.00	26.34	40.14	-5.86	Peak
902.050	---	11.30	46.00	26.34	37.64	-8.36	QP
909.980	---	11.80	46.00	26.43	38.23	-7.77	QP
! 909.980	14.10	---	46.00	26.43	40.53	-5.47	Peak
960.420	15.30	---	54.00	27.08	42.38	-11.62	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