



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.: TYR87-2061 Date : 23 December, 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. : A3KM126 Model Name : 170T4 Serial Number : TY0304633 Description : 17" WXGA LCD TV monitor, Max. resolution 1280x768/75Hz		
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 : 05 Dec., 2003 Date of performance of test : 07 Dec., 2003 to 09 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, 17" color monitor :

Model No. : 170T4
 FCC ID : A3KM126
 Brand : PHILIPS

The color monitor automatically scans horizontal frequencies between 30KHz and 63KHz , 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 1280x768 pixels.

The monitor has 9 factory-preset modes as indicated in the following table:

Mode	Resolution	H. freq. / V. freq	Standard
1.	720 x 400	31.469Khz/70.087Hz	VGA
2.	640 x 480	31.469Khz/59.940Hz	VGA
3.	640 x 480	37.500Khz/75.000Hz	VESA
4.	800 x 600	37.879Khz/60.317Hz	VESA
5.	800 x 600	46.875Khz/75.000Hz	VESA
6.	1024 x 768	48.363Khz/60.004Hz	VESA
7.	1024 x 768	60.023Khz/75.029Hz	VESA
8.	1280x768	47.7Khz/60Hz	GIF
9.	1280x768	60.15Khz/75Hz	GIF

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

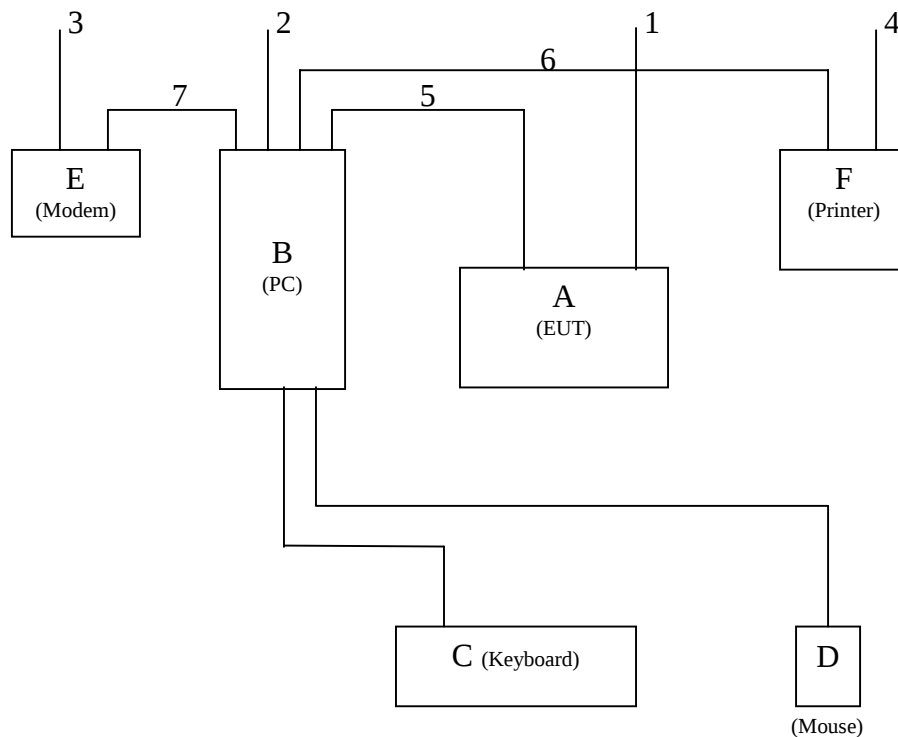
The system was configured for testing in a typical fashion (as a customer would normally use it) according to ANSI C63.4-1992, please see the photographs for detail. For system measurement, the EUT “170T4” were connected to:

	Description	Brand/ Model No.	Serial No.	FCC ID	Remark
A	Monitor	PHILIPS 170T4	TY0304633	A3KM126	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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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.

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	EMI03-044-C	1280x768	60KHz/75Hz	D-sub
		1024x768	60KHz/75Hz	D-sub
Radiated	EMI03-044-R	1280x768	60KHz/75Hz	D-sub
		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

: 07 Dec., 2003 to 09 Dec., 2003

Test Engineer

: C.C.Wu

For detail measurement results see next pages.

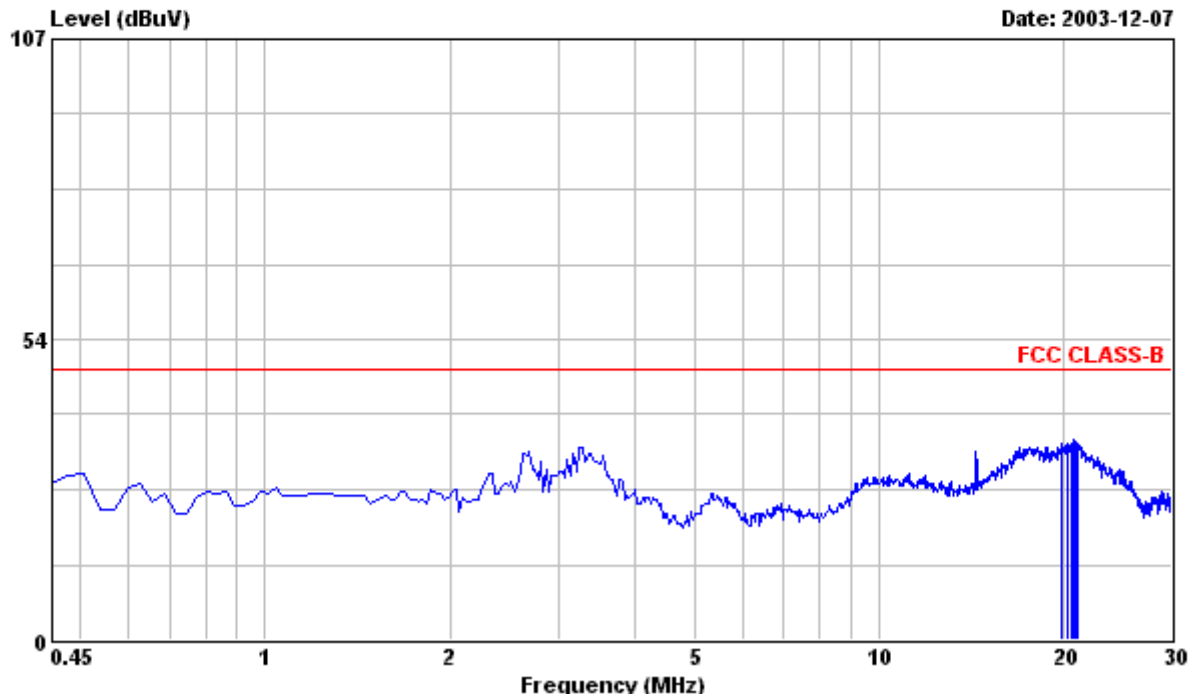


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Data#: 1

File#: C:\Program Files\em3\EMI03-044-C(PHILIPS 170T4).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L1 LINE
EUT : PHILIPS 170T4 Serial No:TY0304633
Power : 120VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL FUJITSU PANEL,RUN IBM
: V1.8 FONT 16 ARIA "H" PATTERN.
: 3. EXTRA PC AUDIO,AV-VIDEO,S-VIDEO,
: AUDIO & ANT CABLE WERE CONNECTED
: WITH DUMMY LOAD & WITH HEADPHONE.
: 4. 1280x768/75Hz 60KHz 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							
19.894	34.00	---	48.00	0.80	34.80	-13.20	Peak
20.308	34.00	---	48.00	0.81	34.81	-13.19	Peak
20.544	34.30	---	48.00	0.81	35.11	-12.89	Peak
20.603	34.20	---	48.00	0.81	35.01	-12.99	Peak
20.721	34.50	---	48.00	0.82	35.32	-12.68	Peak
20.780	34.70	---	48.00	0.82	35.52	-12.48	Peak
20.840	34.40	---	48.00	0.82	35.22	-12.78	Peak
21.017	34.10	---	48.00	0.82	34.92	-13.08	Peak

Frequency	Peak Reading	QP Reading	Limit	Factor	Emission Level	Over Limit	Remark
LINE							
19.894	34.00	---	48.00	0.80	34.80	-13.20	Peak
20.308	34.00	---	48.00	0.81	34.81	-13.19	Peak
20.544	34.30	---	48.00	0.81	35.11	-12.89	Peak
20.603	34.20	---	48.00	0.81	35.01	-12.99	Peak
20.721	34.50	---	48.00	0.82	35.32	-12.68	Peak
20.780	34.70	---	48.00	0.82	35.52	-12.48	Peak
20.840	34.40	---	48.00	0.82	35.22	-12.78	Peak
21.017	34.10	---	48.00	0.82	34.92	-13.08	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

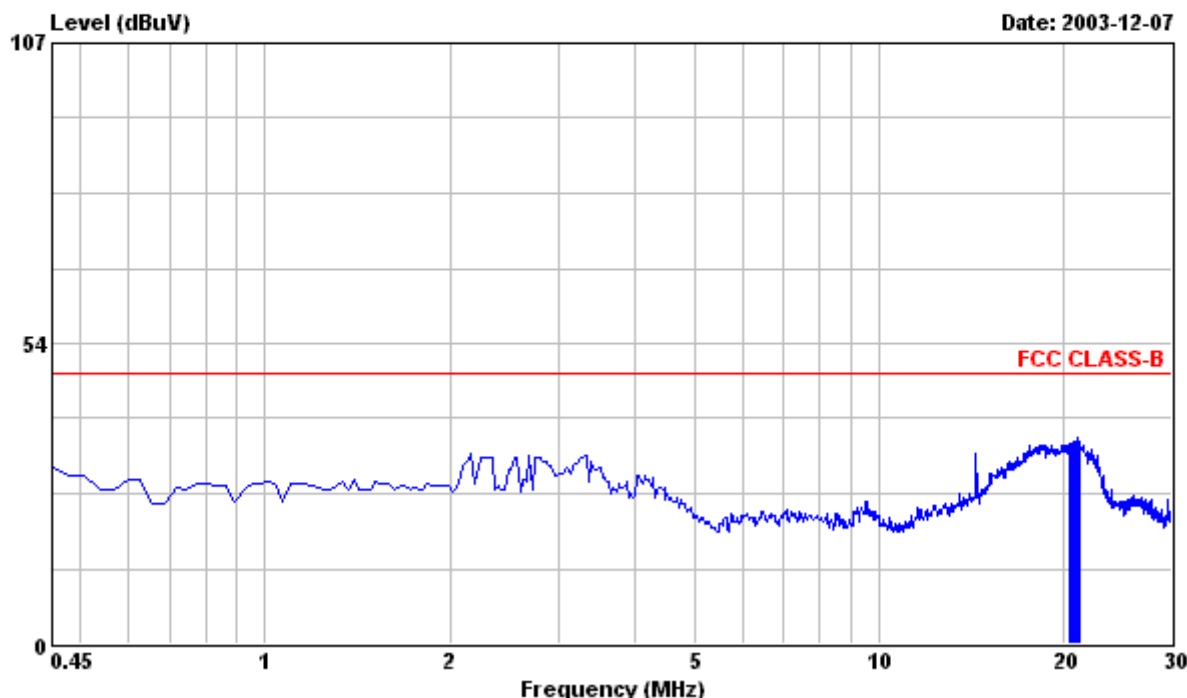


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Data#: 2

File#: C:\Program Files\em3\EMI03-044-C(PHILIPS 170T4).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L2 NEUTRAL
EUT : PHILIPS 170T4 Serial No:TY0304633
Power : 120VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL FUJITSU PANEL,RUN IBM
: V1.8 FONT 16 ARIA "H" PATTERN.
: 3. EXTRA PC AUDIO,AV-VIDEO,S-VIDEO,
: AUDIO & ANT CABLE WERE CONNECTED
: WITH DUMMY LOAD & WITH HEADPHONE.
: 4. 1280x768/75Hz 60KHz 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							

20.485	34.80	---	48.00	0.91	35.71	-12.29	Peak
20.603	34.80	---	48.00	0.91	35.71	-12.29	Peak
20.721	34.90	---	48.00	0.92	35.82	-12.18	Peak
20.840	35.10	---	48.00	0.92	36.02	-11.98	Peak
20.958	34.90	---	48.00	0.92	35.82	-12.18	Peak
21.076	35.80	---	48.00	0.92	36.72	-11.28	Peak
21.194	35.00	---	48.00	0.93	35.93	-12.07	Peak
21.312	34.70	---	48.00	0.93	35.63	-12.37	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

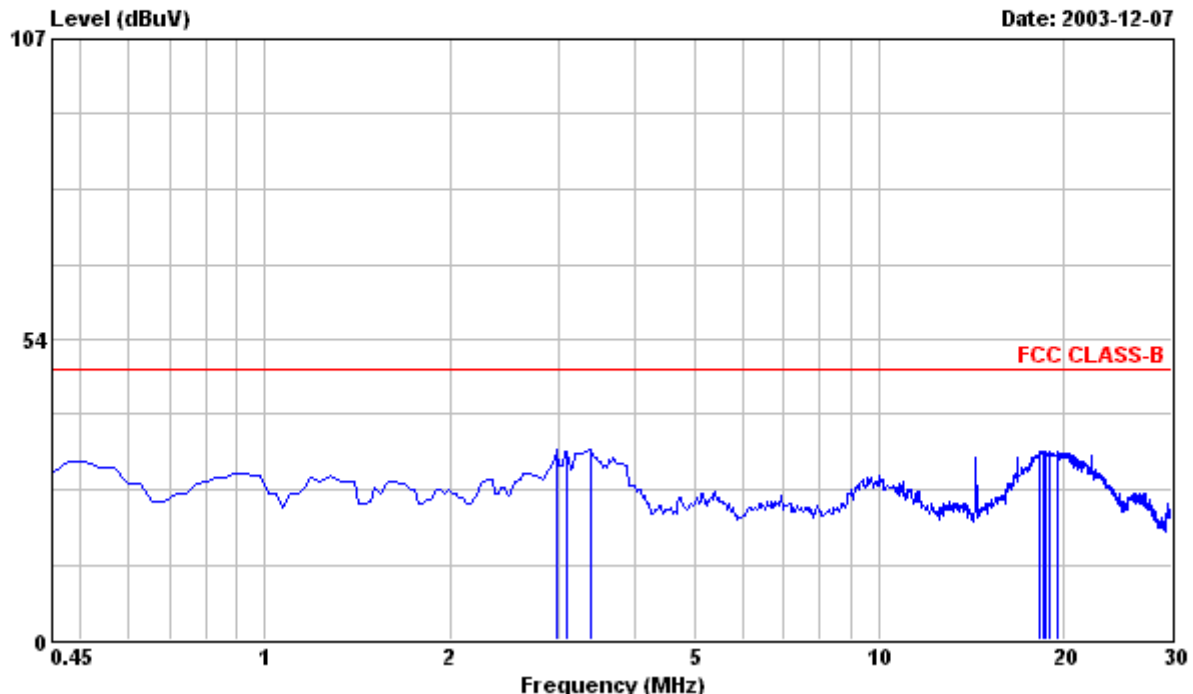


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Data#: 3

File#: C:\Program Files\em3\EMI03-044-C(PHILIPS 170T4).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L1 LINE
EUT : PHILIPS 170T4 Serial No:TY0304633
Power : 220VAC
Memo :

1. EMI EVALUATION FOR FCC SAMPLE.
2. 2ND MODEL FUJITSU PANEL,RUN IBM
V1.8 FONT 16 ARIA "H" PATTERN.
3. EXTRA PC AUDIO,AV-VIDEO,S-VIDEO,
AUDIO & ANT CABLE WERE CONNECTED
WITH DUMMY LOAD & WITH HEADPHONE.
4. 1280x768/75Hz 60KHz 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
-----------	--------------	------------	-------	--------	----------------	------------	--------

2.991	33.50	---	48.00	0.40	33.90	-14.10	Peak
3.110	33.20	---	48.00	0.40	33.60	-14.40	Peak
3.405	33.60	---	48.00	0.40	34.00	-14.00	Peak
18.298	32.60	---	48.00	0.77	33.37	-14.63	Peak
18.535	32.60	---	48.00	0.77	33.37	-14.63	Peak
18.653	32.70	---	48.00	0.78	33.48	-14.52	Peak
19.007	32.80	---	48.00	0.78	33.58	-14.42	Peak
19.598	32.60	---	48.00	0.79	33.39	-14.61	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

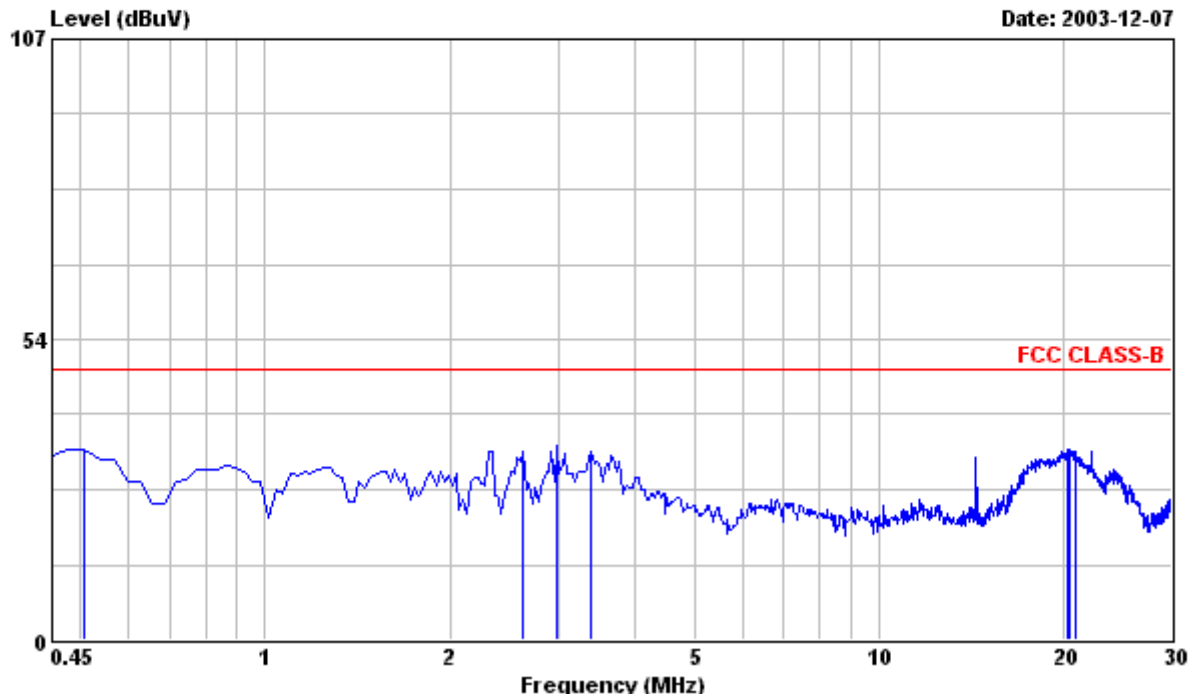


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Data#: 4

File#: C:\Program Files\em3\EMI03-044-C(PHILIPS 170T4).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L2 NEUTRAL
EUT : PHILIPS 170T4 Serial No:TY0304633
Power : 220VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL FUJITSU PANEL,RUN IBM
: V1.8 FONT 16 ARIA "H" PATTERN.
: 3. EXTRA PC AUDIO,AV-VIDEO,S-VIDEO,
: AUDIO & ANT CABLE WERE CONNECTED
: WITH DUMMY LOAD & WITH HEADPHONE.
: 4. 1280x768/75Hz 60KHz 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							

0.509	33.50	---	48.00	0.23	33.73	-14.27	Peak
2.637	33.30	---	48.00	0.40	33.70	-14.30	Peak
2.991	34.20	---	48.00	0.40	34.60	-13.40	Peak
3.405	33.30	---	48.00	0.40	33.70	-14.30	Peak
20.249	33.10	---	48.00	0.91	34.01	-13.99	Peak
20.308	32.90	---	48.00	0.91	33.81	-14.19	Peak
20.426	33.00	---	48.00	0.91	33.91	-14.09	Peak
20.840	32.70	---	48.00	0.92	33.62	-14.38	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

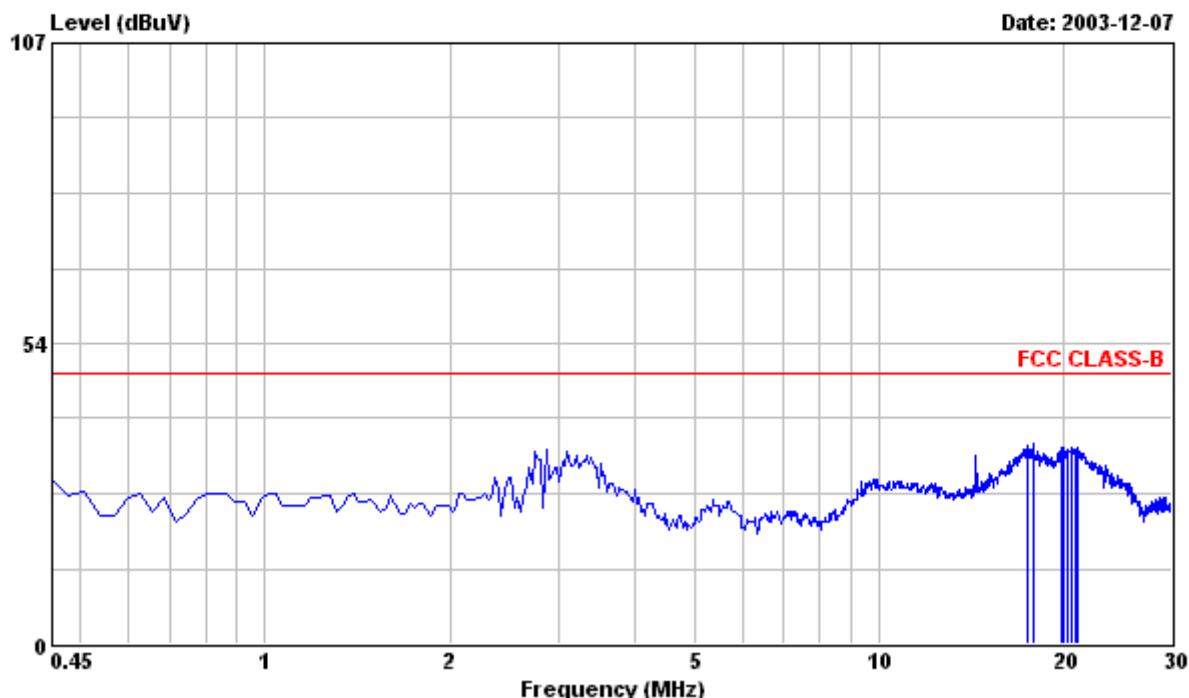


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Data#: 5

File#: C:\Program Files\em3\EMI03-044-C(PHILIPS 170T4).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L1 LINE
EUT : PHILIPS 170T4 Serial No:TY0304633
Power : 120VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL FUJITSU PANEL,RUN IBM
: V1.8 FONT 14 ARIA "H" PATTERN.
: 3. EXTRA PC AUDIO,AV-VIDEO,S-VIDEO,
: AUDIO & ANT CABLE WERE CONNECTED
: WITH DUMMY LOAD & WITH HEADPHONE.
: 4. 1024x768/75Hz 60KHz 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							
17.530	34.40	---	48.00	0.75	35.15	-12.85	Peak
17.825	35.00	---	48.00	0.76	35.76	-12.24	Peak
19.894	34.10	---	48.00	0.80	34.90	-13.10	Peak
20.012	34.10	---	48.00	0.80	34.90	-13.10	Peak
20.367	33.90	---	48.00	0.81	34.71	-13.29	Peak
20.662	34.21	---	48.00	0.81	35.02	-12.98	Peak
20.840	33.80	---	48.00	0.82	34.62	-13.38	Peak
21.017	34.10	---	48.00	0.82	34.92	-13.08	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

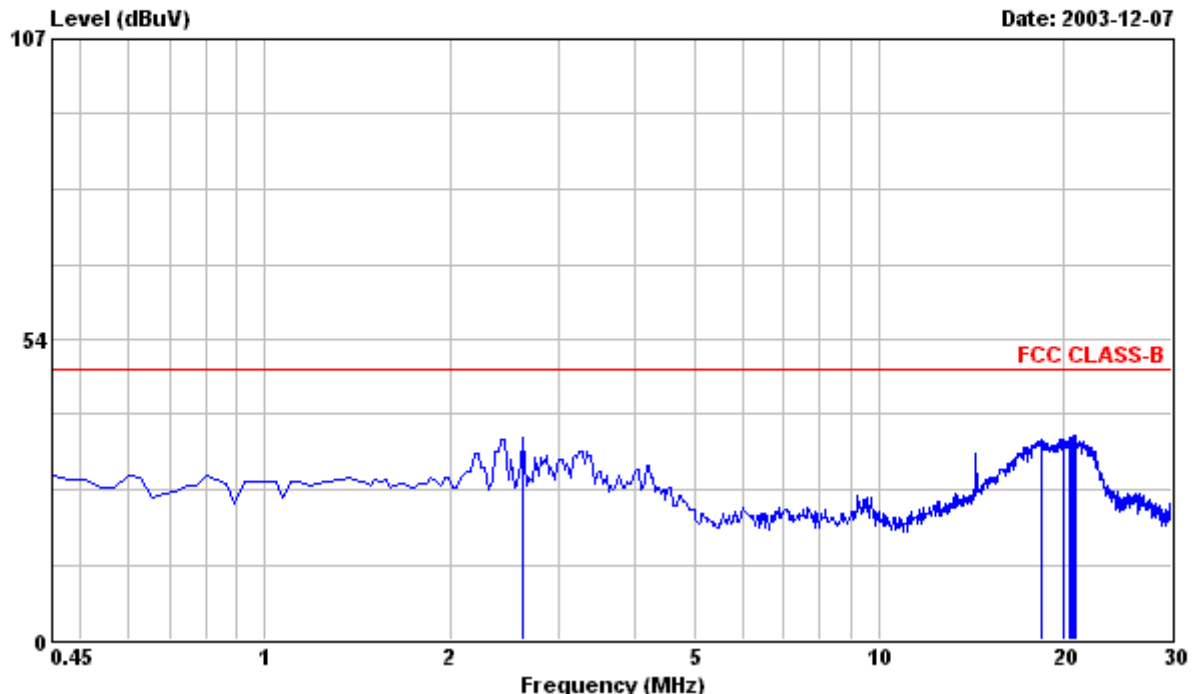


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Data#: 6

File#: C:\Program Files\em3\EMI03-044-C(PHILIPS 170T4).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L2 NEUTRAL
EUT : PHILIPS 170T4 Serial No:TY0304633
Power : 120VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL FUJITSU PANEL,RUN IBM
: V1.8 FONT 14 ARIA "H" PATTERN.
: 3. EXTRA PC AUDIO,AV-VIDEO,S-VIDEO,
: AUDIO & ANT CABLE WERE CONNECTED
: WITH DUMMY LOAD & WITH HEADPHONE.
: 4. 1024x768/75Hz 60KHz 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							
2.637	35.80	---	48.00	0.40	36.20	-11.80	Peak
18.416	34.80	---	48.00	0.84	35.64	-12.36	Peak
20.012	34.70	---	48.00	0.90	35.60	-12.40	Peak
20.485	35.00	---	48.00	0.91	35.91	-12.09	Peak
20.544	35.10	---	48.00	0.91	36.01	-11.99	Peak
20.662	35.01	---	48.00	0.91	35.92	-12.08	Peak
20.780	35.60	---	48.00	0.92	36.52	-11.48	Peak
20.840	35.40	---	48.00	0.92	36.32	-11.68	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

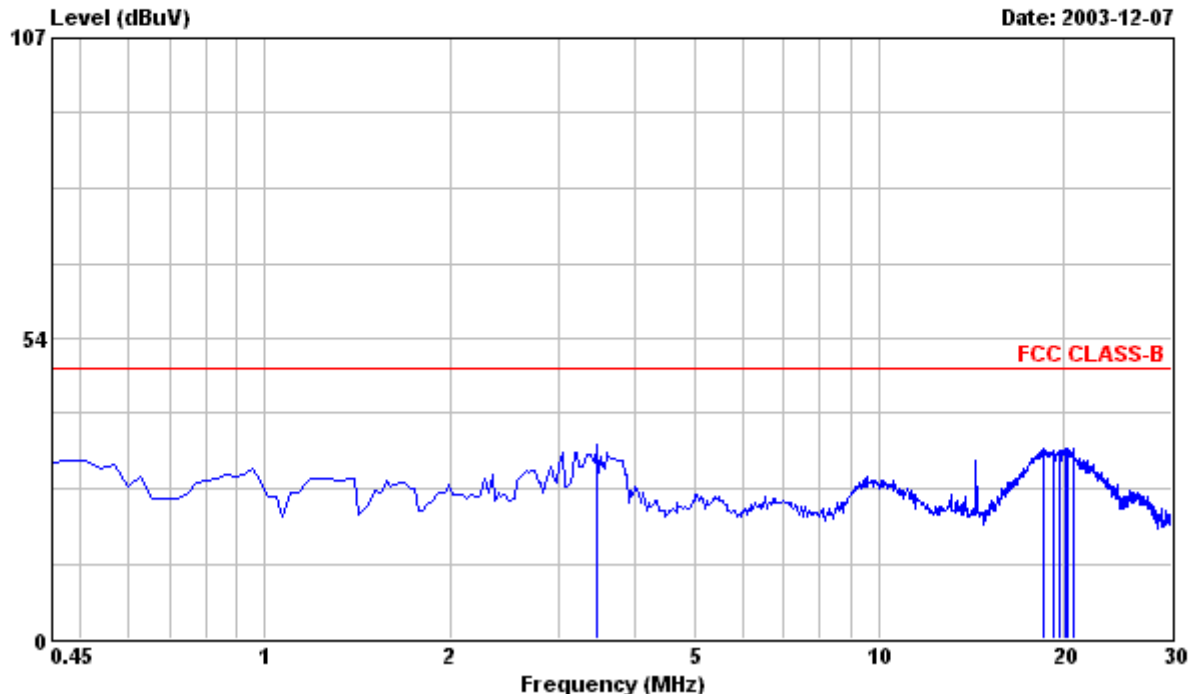


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Data#: 7

File#: C:\Program Files\em3\EMI03-044-C(PHILIPS 170T4).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L1 LINE
EUT : PHILIPS 170T4 Serial No:TY0304633
Power : 220VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL FUJITSU PANEL,RUN IBM
: V1.8 FONT 14 ARIA "H" PATTERN.
: 3. EXTRA PC AUDIO,AV-VIDEO,S-VIDEO,
: AUDIO & ANT CABLE WERE CONNECTED
: WITH DUMMY LOAD & WITH HEADPHONE.
: 4. 1024x768/75Hz 60KHz 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							
3.464	34.20	---	48.00	0.40	34.60	-13.40	Peak
18.535	33.20	---	48.00	0.77	33.97	-14.03	Peak
19.303	32.90	---	48.00	0.79	33.69	-14.31	Peak
19.717	32.90	---	48.00	0.80	33.70	-14.30	Peak
20.130	33.00	---	48.00	0.80	33.80	-14.20	Peak
20.249	33.00	---	48.00	0.81	33.81	-14.19	Peak
20.308	32.90	---	48.00	0.81	33.71	-14.29	Peak
20.780	33.10	---	48.00	0.82	33.92	-14.08	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

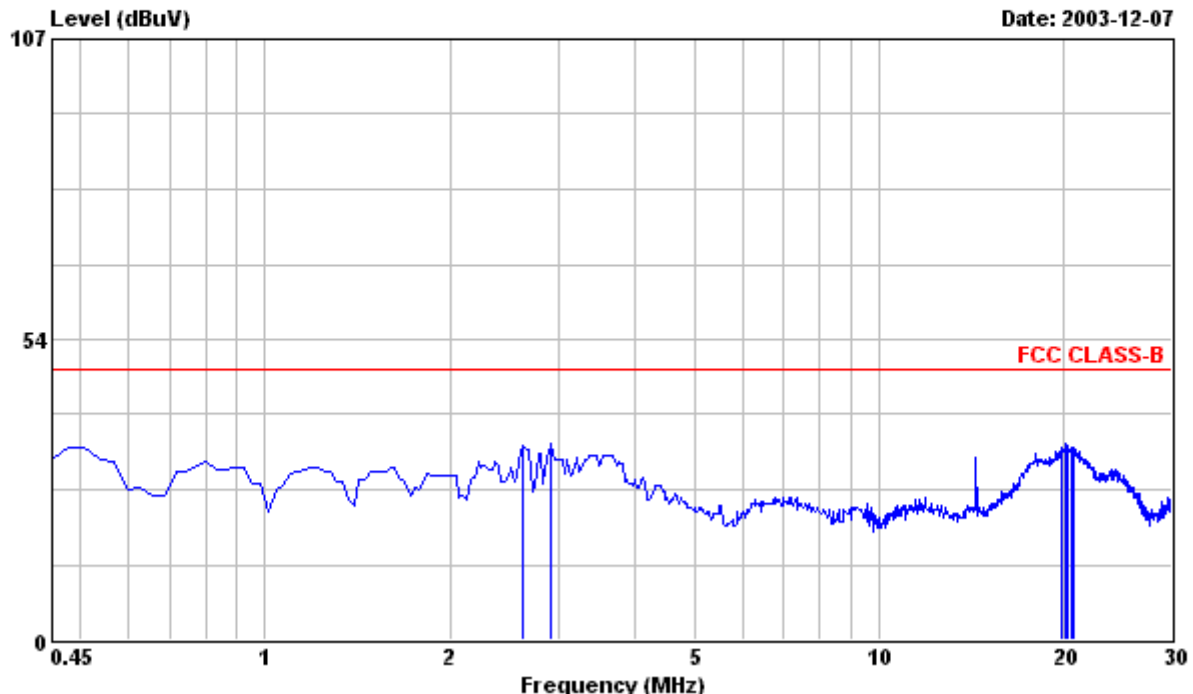


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Data#: 8

File#: C:\Program Files\em3\EMI03-044-C(PHILIPS 170T4).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L2 NEUTRAL
EUT : PHILIPS 170T4 Serial No:TY0304633
Power : 220VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL FUJITSU PANEL,RUN IBM
: V1.8 FONT 14 ARIA "H" PATTERN.
: 3. EXTRA PC AUDIO,AV-VIDEO,S-VIDEO,
: AUDIO & ANT CABLE WERE CONNECTED
: WITH DUMMY LOAD & WITH HEADPHONE.
: 4. 1024x768/75Hz 60KHz 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							

2.637	34.30	---	48.00	0.40	34.70	-13.30	Peak
2.932	34.40	---	48.00	0.40	34.80	-13.20	Peak
19.894	33.40	---	48.00	0.90	34.30	-13.70	Peak
20.130	33.70	---	48.00	0.90	34.60	-13.40	Peak
20.189	33.90	---	48.00	0.91	34.81	-13.19	Peak
20.308	33.80	---	48.00	0.91	34.71	-13.29	Peak
20.603	33.50	---	48.00	0.91	34.41	-13.59	Peak
20.721	33.30	---	48.00	0.92	34.22	-13.78	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

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

: 07 Dec., 2003 to 09 Dec., 2003

Test Engineer

: C.C.Wu

For detail measurement results see next pages.

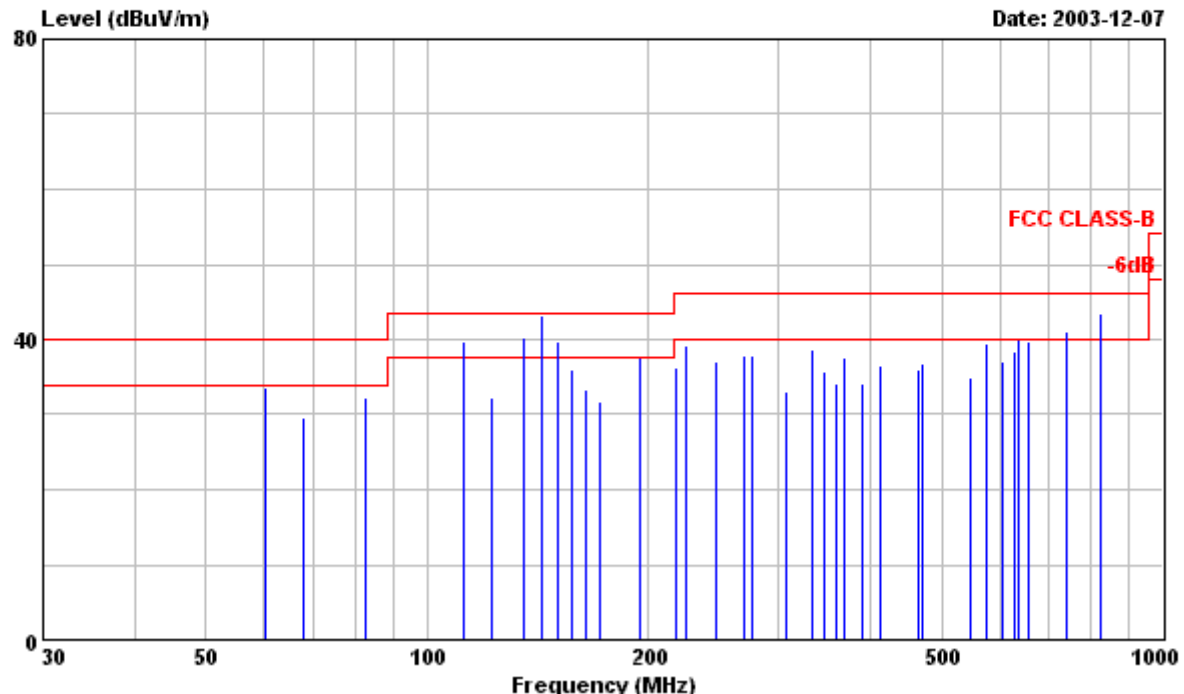


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Data#: 1

File#: C:\Program Files\em3\EMI03-044-R(PHILIPS 170T4).emi



Site : PHILIPS EMI 3M open site
Condition : FCC CLASS-B 3m FCC-3M-FACTOR HORIZONTAL
EUT : PHILIPS 170T4 Serial No:TY0304631
Power : 120-240VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL FUJITSU PANEL,RUN IBM
: V1.8 FONT 16 ARIA "H" PATTERN.
: 3. EXTRA PC AUDIO,AV-VIDEO,S-VIDEO,
: AUDIO & ANT CABLE WERE CONNECTED
: WITH DUMMY LOAD & WITH HEADPHONE.
: 4. 1280x768/75Hz 60KHz 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	
60.260		23.70	---	40.00	9.90	33.60	-6.40	Peak
67.630		19.60	---	40.00	9.98	29.58	-10.42	Peak
82.360		21.70	---	40.00	10.52	32.22	-7.78	Peak
! 111.790		27.70	---	43.50	12.00	39.70	-3.80	Peak
! 111.790		---	26.10	43.50	12.00	38.10	-5.40	QP
121.920		19.90	---	43.50	12.43	32.33	-11.17	Peak
! 135.260		---	25.90	43.50	12.89	38.79	-4.71	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	
! 135.260	27.39	---	43.50	12.89	40.28	-3.22	Peak
! 142.600	---	28.21	43.50	13.16	41.37	-2.13	QP
! 142.600	30.01	---	43.50	13.16	43.17	-0.33	Peak
! 149.970	---	24.99	43.50	13.41	38.40	-5.10	QP
! 149.970	26.20	---	43.50	13.41	39.61	-3.89	Peak
157.340	22.30	---	43.50	13.63	35.93	-7.57	Peak
164.690	19.60	---	43.50	13.83	33.43	-10.07	Peak
172.050	17.60	---	43.50	14.02	31.62	-11.88	Peak
194.140	---	20.66	43.50	15.79	36.45	-7.05	QP
! 194.140	21.90	---	43.50	15.79	37.69	-5.81	Peak
217.600	18.40	---	46.00	17.88	36.28	-9.72	Peak
224.960	20.80	---	46.00	18.53	39.33	-6.67	Peak
247.040	16.90	---	46.00	20.24	37.14	-8.86	Peak
269.120	16.20	---	46.00	21.59	37.79	-8.21	Peak
276.490	15.80	---	46.00	21.95	37.75	-8.25	Peak
307.300	16.30	---	46.00	16.64	32.94	-13.06	Peak
332.800	21.50	---	46.00	17.16	38.66	-7.34	Peak
347.070	18.40	---	46.00	17.44	35.84	-10.16	Peak
358.840	16.60	---	46.00	17.67	34.27	-11.73	Peak
369.380	19.80	---	46.00	17.86	37.66	-8.34	Peak
389.640	16.20	---	46.00	18.21	34.41	-11.59	Peak
411.730	17.90	---	46.00	18.57	36.47	-9.53	Peak
464.640	16.60	---	46.00	19.27	35.87	-10.13	Peak
472.000	17.40	---	46.00	19.37	36.77	-9.23	Peak
547.000	14.40	---	46.00	20.45	34.85	-11.15	Peak
576.400	18.70	---	46.00	20.88	39.58	-6.42	Peak
605.870	15.70	---	46.00	21.36	37.06	-8.94	Peak
629.340	16.60	---	46.00	21.93	38.53	-7.47	Peak
636.680	17.90	---	46.00	22.09	39.99	-6.01	Peak
658.760	17.10	---	46.00	22.61	39.71	-6.29	Peak
741.110	---	14.33	46.00	24.08	38.41	-7.59	QP
! 741.110	17.00	---	46.00	24.08	41.08	-4.92	Peak
! 823.460	---	15.33	46.00	25.20	40.53	-5.47	QP
! 823.460	18.30	---	46.00	25.20	43.50	-2.50	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

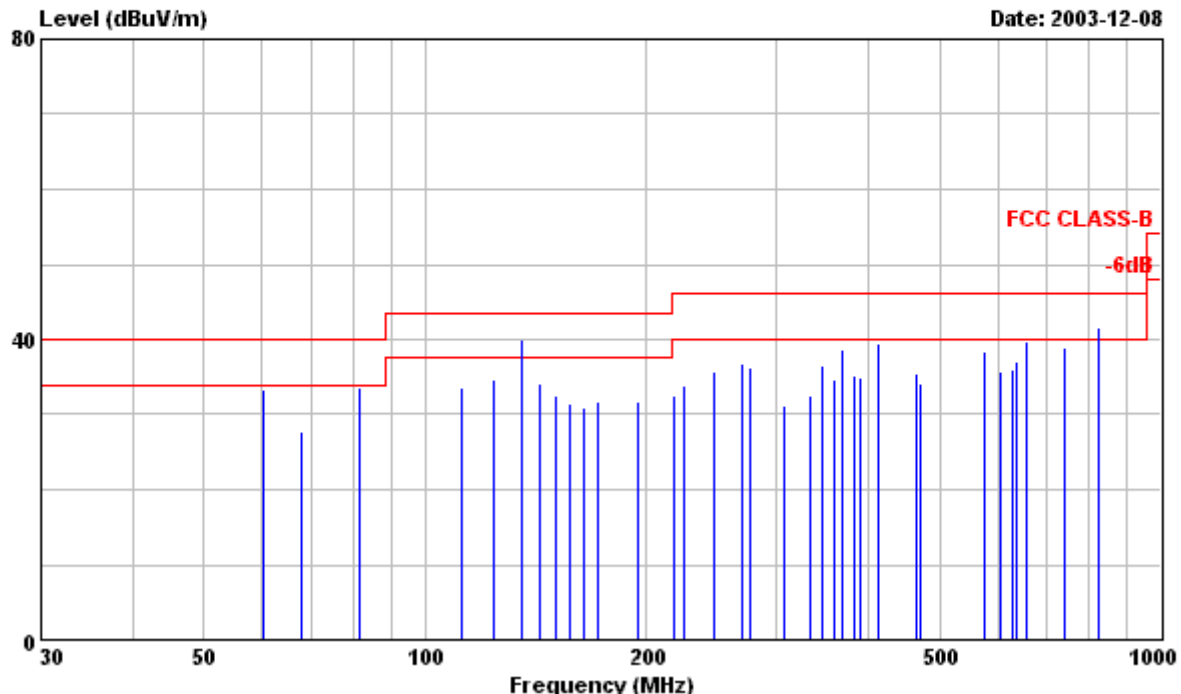


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Data#: 2

File#: C:\Program Files\em3\EMI03-044-R(PHILIPS 170T4).emi



Site : PHILIPS EMI 3M open site
Condition : FCC CLASS-B 3m FCC-3M-FACTOR VERTICAL
EUT : PHILIPS 170T4 Serial No:TY0304631
Power : 120-240VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL FUJITSU PANEL,RUN IBM
: V1.8 FONT 16 ARIA "H" PATTERN.
: 3. EXTRA PC AUDIO,AV-VIDEO,S-VIDEO,
: AUDIO & ANT CABLE WERE CONNECTED
: WITH DUMMY LOAD & WITH HEADPHONE.
: 4. 1280x768/75Hz 60KHz 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	
60.260		23.30	---	40.00	9.90	33.20	-6.80	Peak
67.630		17.80	---	40.00	9.98	27.78	-12.22	Peak
81.260		23.10	---	40.00	10.46	33.56	-6.44	Peak
111.790		21.50	---	43.50	12.00	33.50	-10.00	Peak
123.540		22.30	---	43.50	12.47	34.77	-8.73	Peak
! 135.260		27.19	---	43.50	12.89	40.08	-3.42	Peak
! 135.260		---	25.50	43.50	12.89	38.39	-5.11	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
MHz	dBuV	dBuV	dBuV/m	dB/m	VERTICAL dBuV/m	dBuV/m	
142.600	20.90	---	43.50	13.16	34.06	-9.44	Peak
149.970	19.10	---	43.50	13.41	32.51	-10.99	Peak
157.340	17.90	---	43.50	13.63	31.53	-11.97	Peak
164.690	17.20	---	43.50	13.83	31.03	-12.47	Peak
172.050	17.60	---	43.50	14.02	31.62	-11.88	Peak
194.140	15.90	---	43.50	15.79	31.69	-11.81	Peak
217.600	14.59	---	46.00	17.88	32.47	-13.53	Peak
224.960	15.40	---	46.00	18.53	33.93	-12.07	Peak
247.040	15.60	---	46.00	20.24	35.84	-10.16	Peak
269.120	15.10	---	46.00	21.59	36.69	-9.31	Peak
276.490	14.30	---	46.00	21.95	36.25	-9.75	Peak
307.300	14.50	---	46.00	16.64	31.14	-14.86	Peak
332.800	15.30	---	46.00	17.16	32.46	-13.54	Peak
347.070	19.20	---	46.00	17.44	36.64	-9.36	Peak
358.840	17.10	---	46.00	17.67	34.77	-11.23	Peak
369.380	20.70	---	46.00	17.86	38.56	-7.44	Peak
382.280	17.20	---	46.00	18.10	35.30	-10.70	Peak
389.640	16.60	---	46.00	18.21	34.81	-11.19	Peak
411.730	21.00	---	46.00	18.57	39.57	-6.43	Peak
464.640	16.20	---	46.00	19.27	35.47	-10.53	Peak
472.000	14.80	---	46.00	19.37	34.17	-11.83	Peak
576.420	17.50	---	46.00	20.88	38.38	-7.62	Peak
605.870	14.40	---	46.00	21.36	35.76	-10.24	Peak
629.340	14.10	---	46.00	21.93	36.03	-9.97	Peak
636.680	15.10	---	46.00	22.09	37.19	-8.81	Peak
658.760	17.00	---	46.00	22.61	39.61	-6.39	Peak
741.110	14.90	---	46.00	24.08	38.98	-7.02	Peak
! 823.460	16.50	---	46.00	25.20	41.70	-4.30	Peak
823.460	---	13.32	46.00	25.20	38.52	-7.48	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

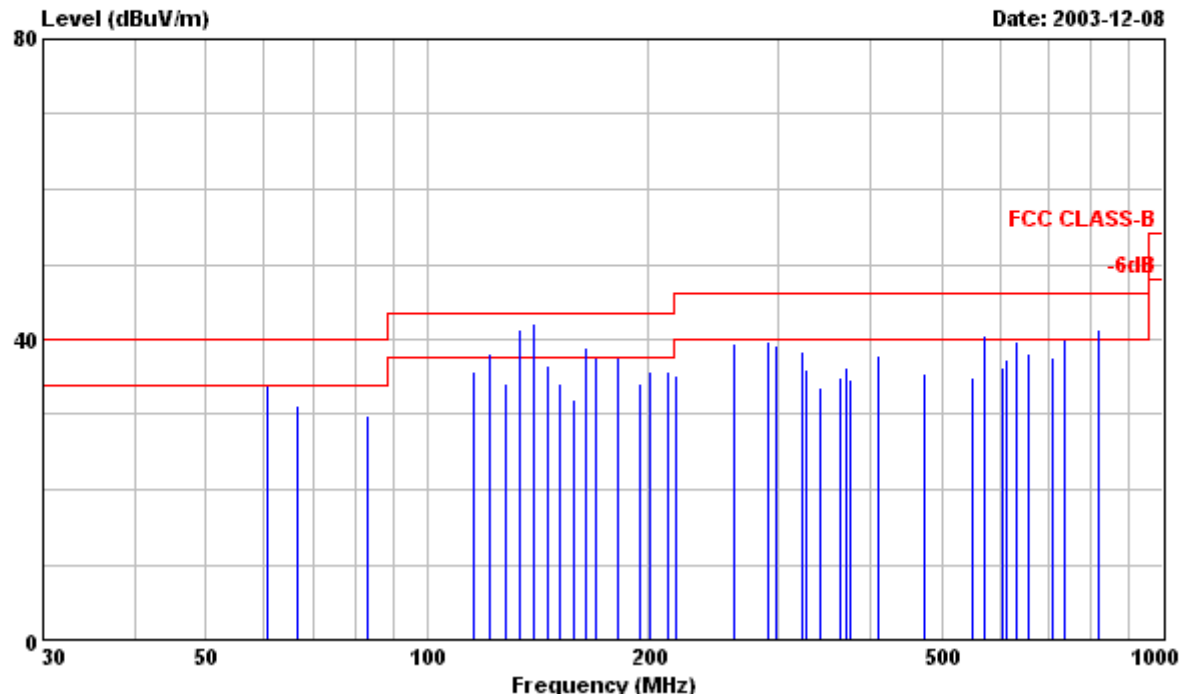


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Data#: 3

File#: C:\Program Files\em3\EMI03-044-R(PHILIPS 170T4).emi



Site : PHILIPS EMI 3M open site
Condition : FCC CLASS-B 3m FCC-3M-FACTOR HORIZONTAL
EUT : PHILIPS 170T4 Serial No:TY0304631
Power : 120-240VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL FUJITSU PANEL,RUN IBM
: V1.8 FONT 14 ARIA "H" PATTERN.
: 3. EXTRA PC AUDIO,AV-VIDEO,S-VIDEO,
: AUDIO & ANT CABLE WERE CONNECTED
: WITH DUMMY LOAD & WITH HEADPHONE.
: 4. 1024x768/75Hz 60KHz 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	
60.660		23.90	---	40.00	9.91	33.81	-6.19	Peak
66.730		21.10	---	40.00	9.97	31.07	-8.93	Peak
82.890		19.20	---	40.00	10.55	29.75	-10.25	Peak
115.270		23.50	---	43.50	12.17	35.67	-7.83	Peak
! 121.340		25.80	---	43.50	12.42	38.22	-5.28	Peak
121.340		---	24.34	43.50	12.42	36.76	-6.74	QP
127.390		21.50	---	43.50	12.59	34.09	-9.41	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	HORIZONTAL		
					dBuV/m	dBuV/m	
! 133.470	28.60	---	43.50	12.83	41.43	-2.07	Peak
! 133.470	---	27.14	43.50	12.83	39.97	-3.53	QP
! 139.530	29.10	---	43.50	13.04	42.14	-1.36	Peak
! 139.530	---	27.70	43.50	13.04	40.74	-2.76	QP
145.600	23.20	---	43.50	13.25	36.45	-7.05	Peak
151.670	20.60	---	43.50	13.46	34.06	-9.44	Peak
157.740	18.30	---	43.50	13.63	31.93	-11.57	Peak
! 163.800	25.10	---	43.50	13.80	38.90	-4.60	Peak
163.800	---	23.58	43.50	13.80	37.38	-6.12	QP
169.870	---	22.21	43.50	13.96	36.17	-7.33	QP
! 169.870	23.60	---	43.50	13.96	37.56	-5.94	Peak
182.010	22.90	---	43.50	14.59	37.49	-6.01	Peak
194.160	18.70	---	43.50	15.79	34.49	-9.01	Peak
200.200	19.40	---	43.50	16.30	35.70	-7.80	Peak
212.320	18.30	---	43.50	17.42	35.72	-7.78	Peak
218.400	17.30	---	46.00	17.94	35.24	-10.76	Peak
260.870	18.30	---	46.00	21.12	39.42	-6.58	Peak
291.190	16.90	---	46.00	22.73	39.63	-6.37	Peak
297.260	16.20	---	46.00	23.04	39.24	-6.76	Peak
324.200	21.30	---	46.00	16.99	38.29	-7.71	Peak
327.600	18.90	---	46.00	17.06	35.96	-10.04	Peak
342.740	16.20	---	46.00	17.37	33.57	-12.43	Peak
364.100	17.30	---	46.00	17.77	35.07	-10.93	Peak
370.060	18.40	---	46.00	17.88	36.28	-9.72	Peak
376.140	16.60	---	46.00	17.98	34.58	-11.42	Peak
409.490	19.30	---	46.00	18.52	37.82	-8.18	Peak
473.200	16.10	---	46.00	19.39	35.49	-10.51	Peak
552.070	14.40	---	46.00	20.54	34.94	-11.06	Peak
573.280	---	18.20	46.00	20.83	39.03	-6.97	QP
! 573.280	19.59	---	46.00	20.83	40.42	-5.58	Peak
606.650	14.90	---	46.00	21.36	36.26	-9.74	Peak
612.720	15.90	---	46.00	21.51	37.41	-8.59	Peak
630.920	17.80	---	46.00	21.98	39.78	-6.22	Peak
655.190	15.60	---	46.00	22.51	38.11	-7.89	Peak
709.780	13.90	---	46.00	23.64	37.54	-8.46	Peak
737.080	15.90	---	46.00	24.01	39.91	-6.09	Peak
! 818.970	16.30	---	46.00	25.11	41.41	-4.59	Peak
818.970	---	13.13	46.00	25.11	38.24	-7.76	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

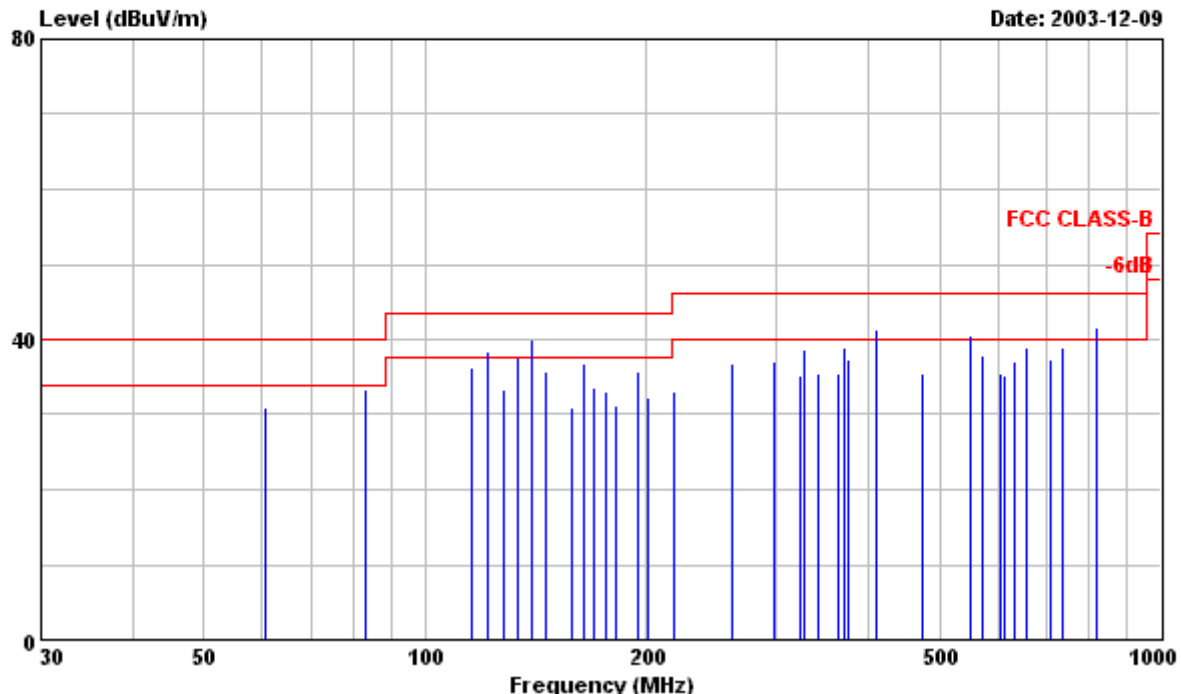


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Data#: 4

File#: C:\Program Files\em3\EMI03-044-R(PHILIPS 170T4).emi



Site : PHILIPS EMI 3M open site
Condition : FCC CLASS-B 3m FCC-3M-FACTOR VERTICAL
EUT : PHILIPS 170T4 Serial No:TY0304631
Power : 120-240VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL FUJITSU PANEL,RUN IBM
: V1.8 FONT 14 ARIA "H" PATTERN.
: 3. EXTRA PC AUDIO,AV-VIDEO,S-VIDEO,
: AUDIO & ANT CABLE WERE CONNECTED
: WITH DUMMY LOAD & WITH HEADPHONE.
: 4. 1024x768/75Hz 60KHz 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	
60.660		21.00	---	40.00	9.91	30.91	-9.09	Peak
82.890		22.80	---	40.00	10.55	33.35	-6.65	Peak
115.270		24.10	---	43.50	12.17	36.27	-7.23	Peak
! 121.340		25.90	---	43.50	12.42	38.32	-5.18	Peak
121.340		---	24.26	43.50	12.42	36.68	-6.82	QP
127.390		20.80	---	43.50	12.59	33.39	-10.11	Peak
! 133.470		24.90	---	43.50	12.83	37.73	-5.77	Peak

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



PHILIPS

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Frequency	Peak Reading	QP reading	Limit	Factor	Emission Level	Over Limit	Remark
MHz	dBuV	dBuV	dBuV/m	dB/m	dBuV/m	dBuV/m	
133.470	---	23.56	43.50	12.83	36.39	-7.11	QP
! 139.530	26.90	---	43.50	13.04	39.94	-3.56	Peak
! 139.530	---	25.30	43.50	13.04	38.34	-5.16	QP
145.600	22.60	---	43.50	13.25	35.85	-7.65	Peak
157.740	17.40	---	43.50	13.63	31.03	-12.47	Peak
163.800	23.10	---	43.50	13.80	36.90	-6.60	Peak
169.870	19.70	---	43.50	13.96	33.66	-9.84	Peak
175.940	18.90	---	43.50	14.14	33.04	-10.46	Peak
182.010	16.70	---	43.50	14.59	31.29	-12.21	Peak
194.160	19.90	---	43.50	15.79	35.69	-7.81	Peak
200.200	16.10	---	43.50	16.30	32.40	-11.10	Peak
218.400	15.20	---	46.00	17.94	33.14	-12.86	Peak
260.870	15.80	---	46.00	21.12	36.92	-9.08	Peak
297.260	14.10	---	46.00	23.04	37.14	-8.86	Peak
324.200	18.20	---	46.00	16.99	35.19	-10.81	Peak
327.600	21.60	---	46.00	17.06	38.66	-7.34	Peak
342.740	18.10	---	46.00	17.37	35.47	-10.53	Peak
364.100	17.80	---	46.00	17.77	35.57	-10.43	Peak
370.060	21.00	---	46.00	17.88	38.88	-7.12	Peak
376.140	19.30	---	46.00	17.98	37.28	-8.72	Peak
409.490	---	20.89	46.00	18.52	39.41	-6.59	QP
! 409.490	22.80	---	46.00	18.52	41.32	-4.68	Peak
473.200	16.10	---	46.00	19.39	35.49	-10.51	Peak
! 551.510	19.90	---	46.00	20.51	40.41	-5.59	Peak
551.510	---	17.72	46.00	20.51	38.23	-7.77	QP
552.070	15.20	---	46.00	20.54	35.74	-10.26	Peak
573.280	17.00	---	46.00	20.83	37.83	-8.17	Peak
606.650	14.20	---	46.00	21.36	35.56	-10.44	Peak
612.720	13.80	---	46.00	21.51	35.31	-10.69	Peak
630.920	15.10	---	46.00	21.98	37.08	-8.92	Peak
655.190	16.40	---	46.00	22.51	38.91	-7.09	Peak
709.780	13.60	---	46.00	23.64	37.24	-8.76	Peak
737.080	14.80	---	46.00	24.01	38.81	-7.19	Peak
! 818.970	16.40	---	46.00	25.11	41.51	-4.49	Peak
818.970	---	12.57	46.00	25.11	37.68	-8.32	QP

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

Tested by : C C.Wu