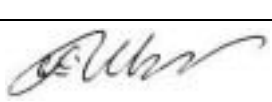




PHILIPS

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.: TYR87-2047 Date : 21 May, 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. : A3KM119 Model Name : 107B50 Serial Number : TY0303179 Description : 17" XGA color 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 : 18 Apr. 2003 Date of performance of test : 22 Apr., 2003 to 23 Apr., 2003		
 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, 17" color monitor :

Model No. : 107B50
FCC ID : A3KM119
Brand : PHILIPS

The color monitor automatically scans horizontal frequencies between 30KHz and 86KHz , and vertical frequencies between 50Hz and 160Hz. This color monitor displays sharp and brilliant images of text and graphics with a maximum resolution up to 1280x1024 pixels.

The monitor has 8 factory-preset modes as indicated in the following table:

	Resolution	H. freq.	V. freq.	H.	V.
1.	720 x 400	31.5 KHz	70Hz (VGA)	-	+
2.	640 x 480	37.5 KHz	75Hz (VGA)	-	-
3.	800 x 600	46.9 KHz	75Hz (VESA)	+	+
4.	800 x 600	53.67 KHz	85Hz (VESA)	+	+
5.	1024 x 768	60.0 KHz	75Hz (VESA)	+	+
6.	1024 x 768	68.7 KHz	85Hz (VESA)	+	+
7.	1280 x 1024	80.0 KHz	75Hz (VESA)	+	+
8.	640 x 480	43.3 KHz	85Hz (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

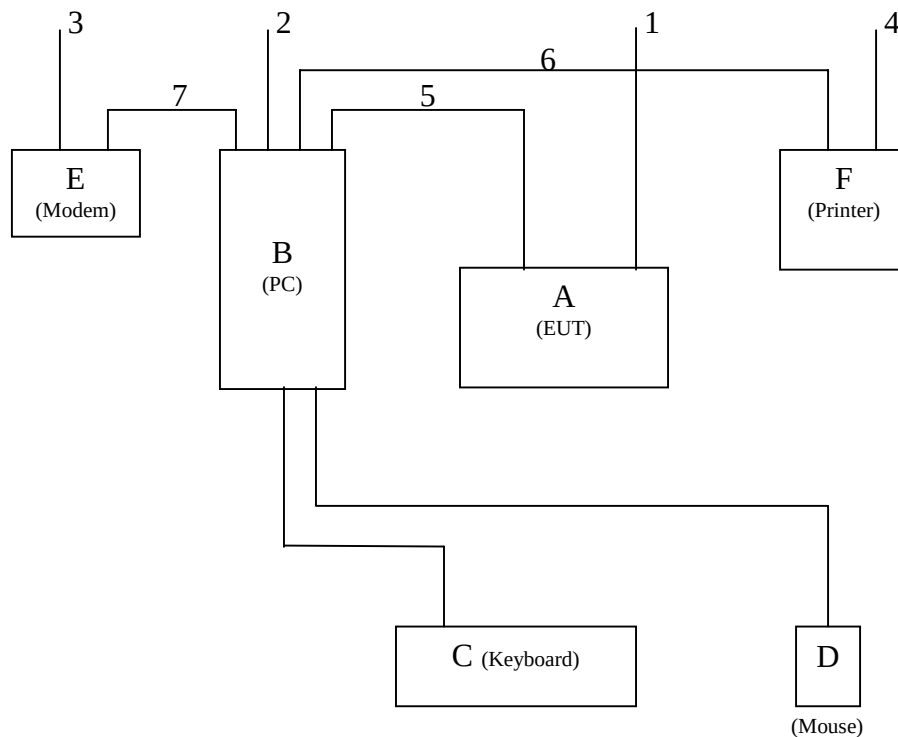
The system was configured for testing in a typical fashion (as a customer would normally use it) according to ANSI C63.4-1992, please see the photographs for detail. For system measurement, the EUT “107B50” were connected to:

	Description	Brand/ Model No.	Serial No.	FCC ID	Remark
A	Monitor	Philips 107B50	TY0303179	A3KM119	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.

Tested and reported modes as following:

Test Item	File No.	Resolution	Frequencies	I/F Cable
Conducted	EMI03-017-C	1280x1024	80KHz/75Hz	D-sub
		1024x768	68.7KHz/85Hz	D-sub
Radiated	EMI03-017-R	1280x1024	80KHz/75Hz	D-sub
		1024x768	68.7KHz/85Hz	D-sub

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

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

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

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

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

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

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

Step 6 : Return to step 1

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

6. Measurement Uncertainty

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

Uncertainty for Radiated Emissions Test at 3 meters Test Site.

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

Uncertainty for Conducted Emissions Test at 3 meters Test Site.

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

Conducted Emissions		
FCC Part 15		
Operating conditions EUT:		
EUT powered on with scrolling “H” pattern.		
Limits:		
Frequency range (MHz)	Class A (dBuv) QP	Class B (dBuv) QP
0.45 – 1.705	60.0	48.0
1.705 – 30.0	69.5	48.0
Test Result :		
Passed FCC Class B Limits		
Option:		
The following option may be employed if the conducted emissions exceed the limits, as appropriate, when measured using instrumentation employing a quasi-peak detector function: If the level of the emission measured using the quasi-peak instrumentation is 6dB, or, more higher than the level of the same emission measured with instrumentation having an average detector and a 9KHz minimum bandwidth, that emission is considered broadband and the level obtained with the quasi-peak detector may be reduced by 13dB for comparison to the limits.		
Remark:		
Date of Test	: 22 Apr., 2003 to 23 Apr., 2003	
Test Engineer	: C.C.Wu	
For detail measurement results see next pages.		

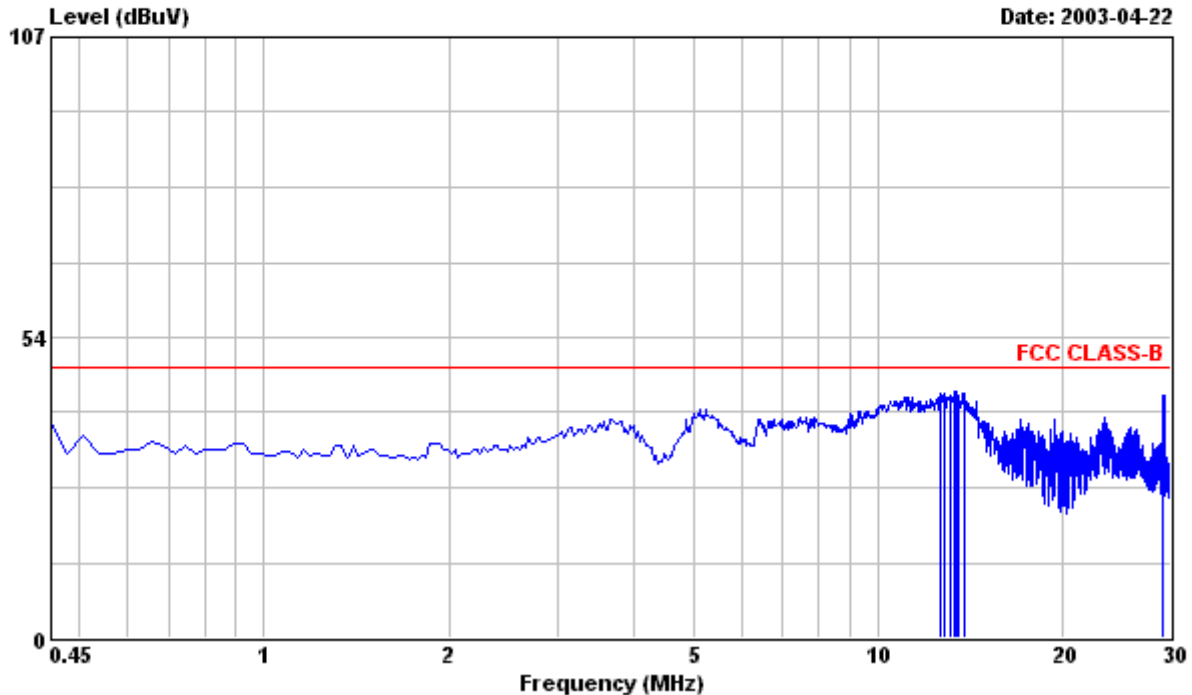


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Philips Electronics Industries (Taiwan)., Ltd.
No.5, Tze Chiang 1 Road, Chungli Industrial Park,
Chungli, Taiwan, R.O.C.
Tel:+886-3-4549862 Fax:+886-3-4549887

Data#: 1

File#: C:\Program Files\em3\EMI03-017-C(107B5 LG).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L1 LINE
EUT : PHILIPS 107B50 Serial No:TY0303179
Power : 120VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL LG PHILIPS CRT,RUN IBM
: V1.8 FONT 16 ARIAL "H" PATTERN.
: 3. 1280x1024/75Hz 80KHz 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
LINE							
12.684	43.00	---	48.00	0.66	43.66	-4.34	Peak
12.802	43.00	---	48.00	0.66	43.66	-4.34	Peak
13.097	42.50	---	48.00	0.67	43.17	-4.83	Peak
13.334	43.20	---	48.00	0.67	43.87	-4.13	Peak
13.452	43.30	---	48.00	0.67	43.97	-4.03	Peak
13.570	42.60	---	48.00	0.68	43.28	-4.72	Peak
13.807	42.80	---	48.00	0.68	43.48	-4.52	Peak
29.202	42.40	---	48.00	0.81	43.21	-4.79	Peak

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

Tested by : C.C.Wu

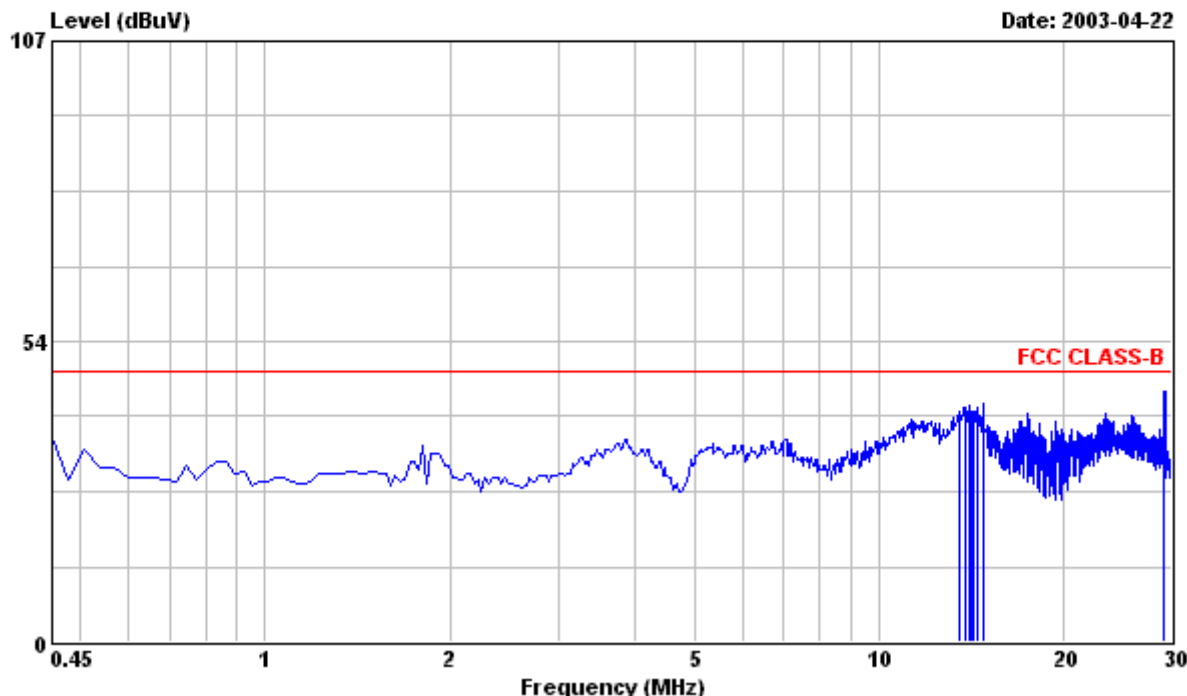


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Philips Electronics Industries (Taiwan)., Ltd.
No.5, Tze Chiang 1 Road, Chungli Industrial Park,
Chungli, Taiwan, R.O.C.
Tel:+886-3-4549862 Fax:+886-3-4549887

Data#: 2

File#: C:\Program Files\em3\EMI03-017-C(107B5 LG).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L2 NEUTRAL
EUT : PHILIPS 107B50 Serial No:TY0303179
Power : 120VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL LG PHILIPS CRT,RUN IBM
: V1.8 FONT 16 ARIAL "H" PATTERN.
: 3. 1280x1024/75Hz 80KHz 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							
13.570	40.50	---	48.00	0.68	41.18	-6.82	Peak
13.807	41.20	---	48.00	0.68	41.88	-6.12	Peak
14.043	41.50	---	48.00	0.68	42.18	-5.82	Peak
14.161	40.40	---	48.00	0.69	41.09	-6.91	Peak
14.279	40.30	---	48.00	0.69	40.99	-7.01	Peak
14.516	41.00	---	48.00	0.69	41.69	-6.31	Peak
14.752	41.80	---	48.00	0.70	42.50	-5.50	Peak
29.202	43.70	---	48.00	0.91	44.61	-3.39	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

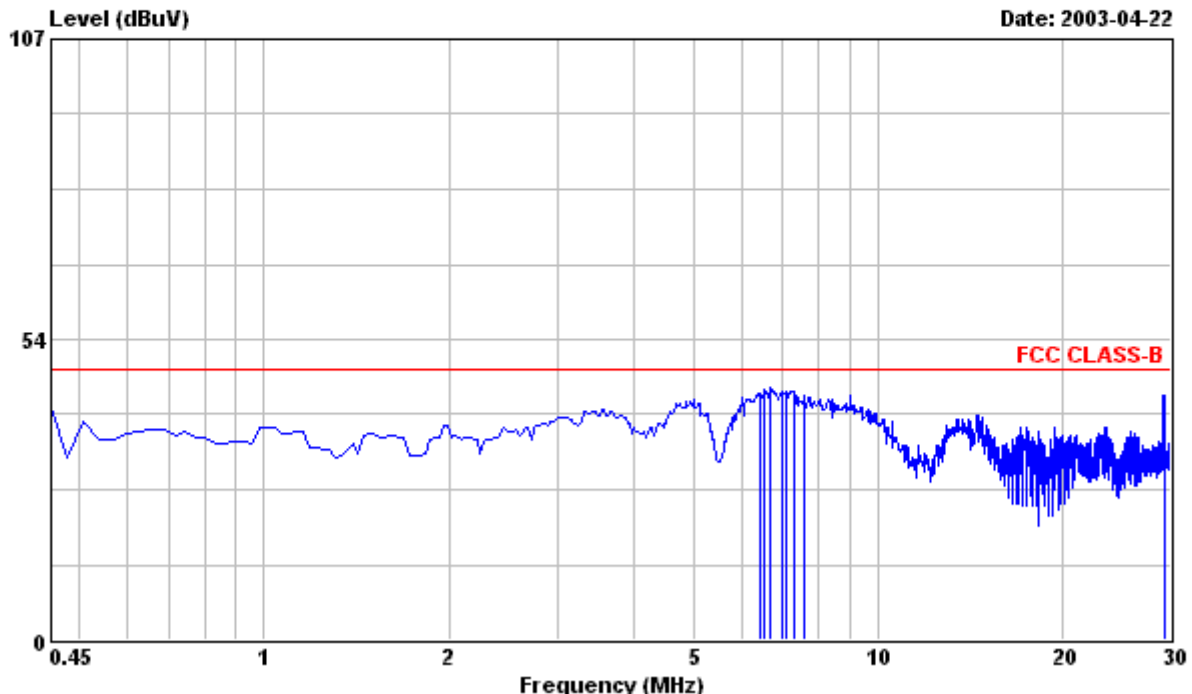


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Philips Electronics Industries (Taiwan)., Ltd.
No.5, Tze Chiang 1 Road, Chungli Industrial Park,
Chungli, Taiwan, R.O.C.
Tel:+886-3-4549862 Fax:+886-3-4549887

Data#: 3

File#: C:\Program Files\em3\EMI03-017-C(107B5 LG).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L1 LINE
EUT : PHILIPS 107B50 Serial No:TY0303179
Power : 220VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL LG PHILIPS CRT,RUN IBM
: V1.8 FONT 16 ARIAL "H" PATTERN.
: 3. 1280x1024/75Hz 80KHz 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
LINE							
6.419	43.30	---	48.00	0.40	43.70	-4.30	Peak
6.537	44.10	---	48.00	0.40	44.50	-3.50	Peak
6.655	44.50	---	48.00	0.40	44.90	-3.10	Peak
7.010	43.70	---	48.00	0.40	44.10	-3.90	Peak
7.069	43.70	---	48.00	0.40	44.10	-3.90	Peak
7.306	43.90	---	48.00	0.40	44.30	-3.70	Peak
7.601	43.20	---	48.00	0.40	43.60	-4.40	Peak
29.232	42.70	---	48.00	0.81	43.51	-4.49	Peak

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

Tested by : C.C.Wu

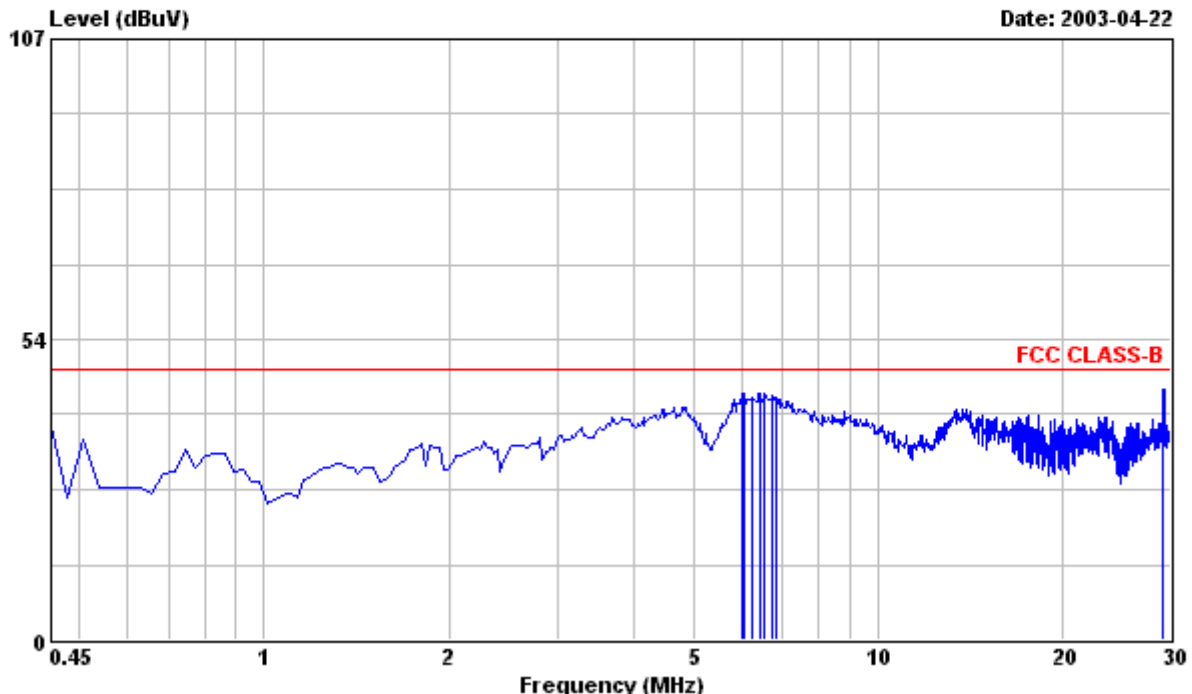


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Philips Electronics Industries (Taiwan)., Ltd.
No.5, Tze Chiang 1 Road, Chungli Industrial Park,
Chungli, Taiwan, R.O.C.
Tel:+886-3-4549862 Fax:+886-3-4549887

Data#: 4

File#: C:\Program Files\em3\EMI03-017-C(107B5 LG).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L2 NEUTRAL
EUT : PHILIPS 107B50 Serial No:TY0303179
Power : 220VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL LG PHILIPS CRT,RUN IBM
: V1.8 FONT 16 ARIAL "H" PATTERN.
: 3. 1280x1024/75Hz 80KHz 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							
6.005	43.40	---	48.00	0.40	43.80	-4.20	Peak
6.065	43.50	---	48.00	0.40	43.90	-4.10	Peak
6.242	42.80	---	48.00	0.40	43.20	-4.80	Peak
6.419	43.40	---	48.00	0.40	43.80	-4.20	Peak
6.537	43.60	---	48.00	0.40	44.00	-4.00	Peak
6.715	43.10	---	48.00	0.40	43.50	-4.50	Peak
6.833	42.60	---	48.00	0.40	43.00	-5.00	Peak
29.202	43.80	---	48.00	0.91	44.71	-3.29	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

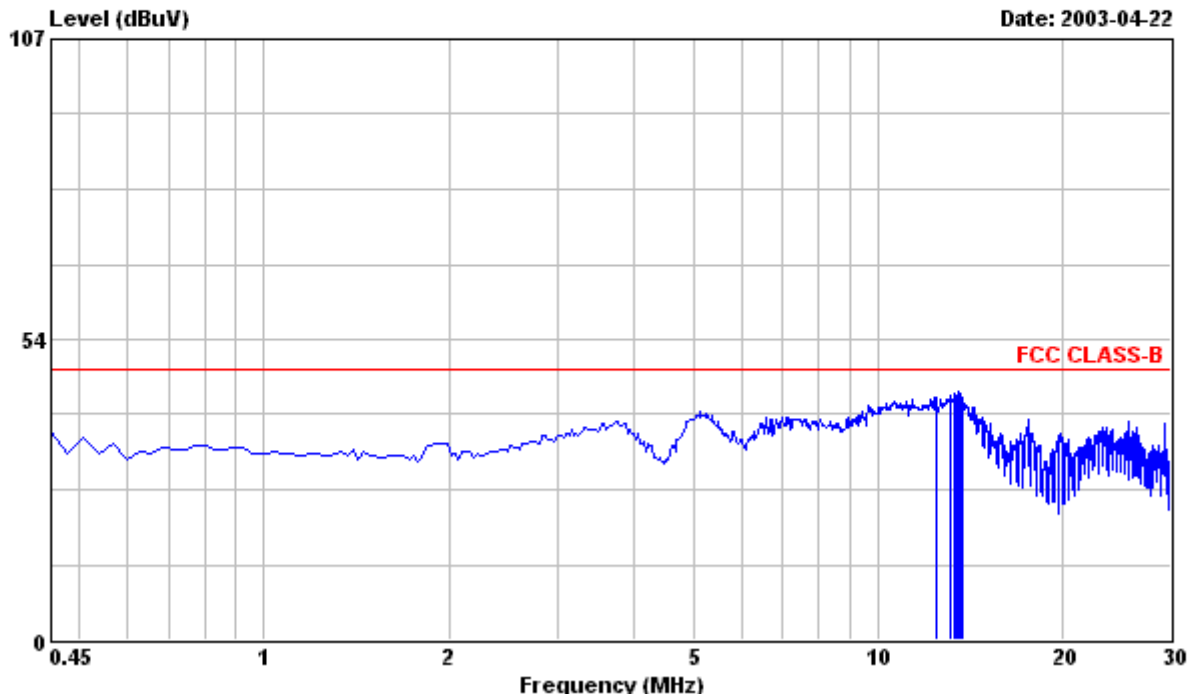


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Chungli, Taiwan, R.O.C.
Tel:+886-3-4549862 Fax:+886-3-4549887

Data#: 5

File#: C:\Program Files\em3\EMI03-017-C(107B5 LG).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L1 LINE
EUT : PHILIPS 107B50 Serial No:TY0303179
Power : 120VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL LG PHILIPS CRT,RUN IBM
: V1.8 FONT 14 ARIAL "H" PATTERN.
: 3. 1024x768/85Hz 68.7KHz 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
LINE							
12.447	42.40	---	48.00	0.65	43.05	-4.95	Peak
13.157	42.80	---	48.00	0.67	43.47	-4.53	Peak
13.334	43.20	---	48.00	0.67	43.87	-4.13	Peak
13.393	42.90	---	48.00	0.67	43.57	-4.43	Peak
13.452	42.50	---	48.00	0.67	43.17	-4.83	Peak
13.570	43.60	---	48.00	0.68	44.28	-3.72	Peak
13.629	43.30	---	48.00	0.68	43.98	-4.02	Peak
13.688	42.40	---	48.00	0.68	43.08	-4.92	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

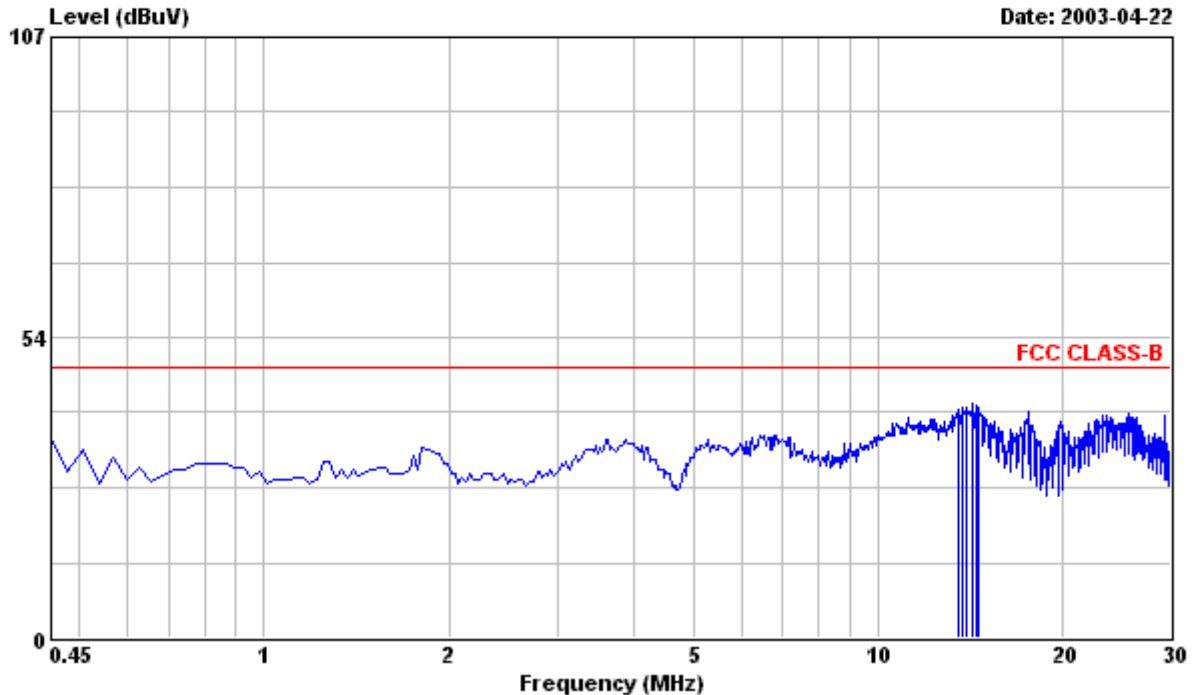


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Tel:+886-3-4549862 Fax:+886-3-4549887

Data#: 6

File#: C:\Program Files\em3\EMI03-017-C(107B5 LG).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L2 NEUTRAL
EUT : PHILIPS 107B50 Serial No:TY0303179
Power : 120VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL LG PHILIPS CRT,RUN IBM
: V1.8 FONT 14 ARIAL "H" PATTERN.
: 3. 1024x768/85Hz 68.7KHz 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							

13.511	40.00	---	48.00	0.67	40.67	-7.33	Peak
13.748	40.30	---	48.00	0.68	40.98	-7.02	Peak
13.925	40.30	---	48.00	0.68	40.98	-7.02	Peak
13.984	40.40	---	48.00	0.68	41.08	-6.92	Peak
14.279	40.90	---	48.00	0.69	41.59	-6.41	Peak
14.457	39.90	---	48.00	0.69	40.59	-7.41	Peak
14.516	40.80	---	48.00	0.69	41.49	-6.51	Peak
14.634	40.50	---	48.00	0.69	41.19	-6.81	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

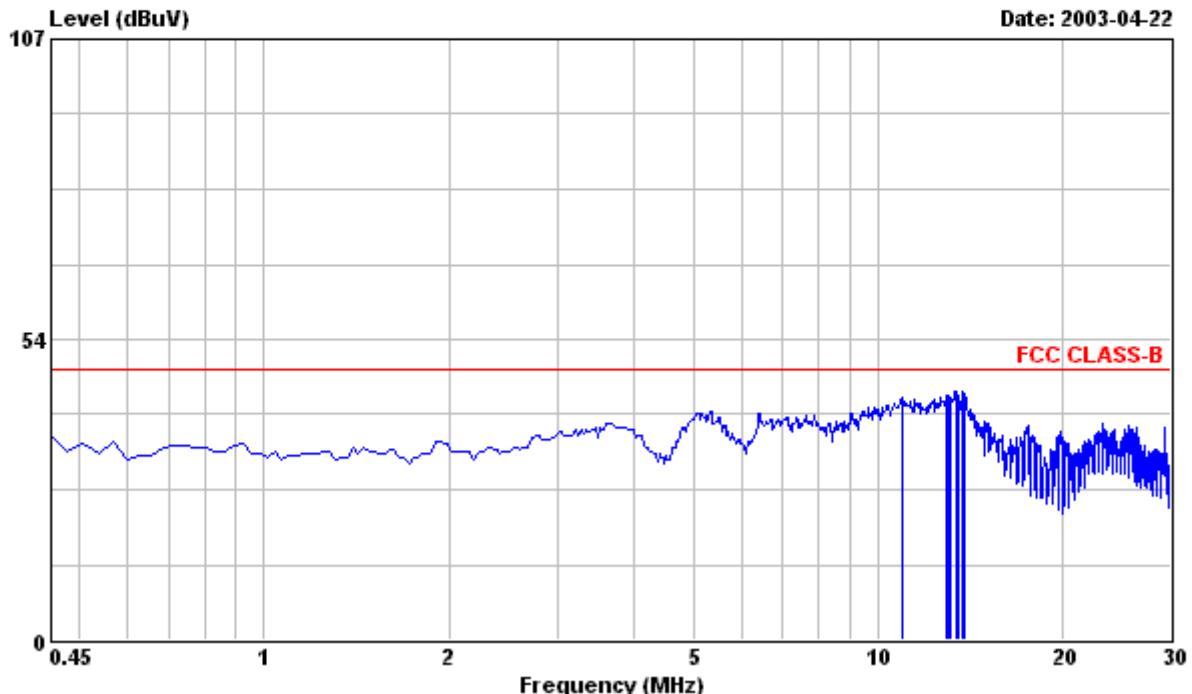


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Philips Electronics Industries (Taiwan) ., Ltd.
No.5, Tze Chiang 1 Road, Chungli Industrial Park,
Chungli, Taiwan, R.O.C.
Tel:+886-3-4549862 Fax:+886-3-4549887

Data#: 7

File#: C:\Program Files\em3\EMI03-017-C(107B5 LG).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L1 LINE
EUT : PHILIPS 107B50 Serial No:TY0303179
Power : 220VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL LG PHILIPS CRT,RUN IBM
: V1.8 FONT 14 ARIAL "H" PATTERN.
: 3. 1024x768/85Hz 68.7KHz 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
LINE							
10.970	42.50	---	48.00	0.62	43.12	-4.88	Peak
12.979	43.00	---	48.00	0.66	43.66	-4.34	Peak
13.038	42.70	---	48.00	0.67	43.37	-4.63	Peak
13.097	42.60	---	48.00	0.67	43.27	-4.73	Peak
13.393	43.40	---	48.00	0.67	44.07	-3.93	Peak
13.511	42.70	---	48.00	0.67	43.37	-4.63	Peak
13.688	43.40	---	48.00	0.68	44.08	-3.92	Peak
13.807	43.10	---	48.00	0.68	43.78	-4.22	Peak

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

Tested by : C.C.Wu

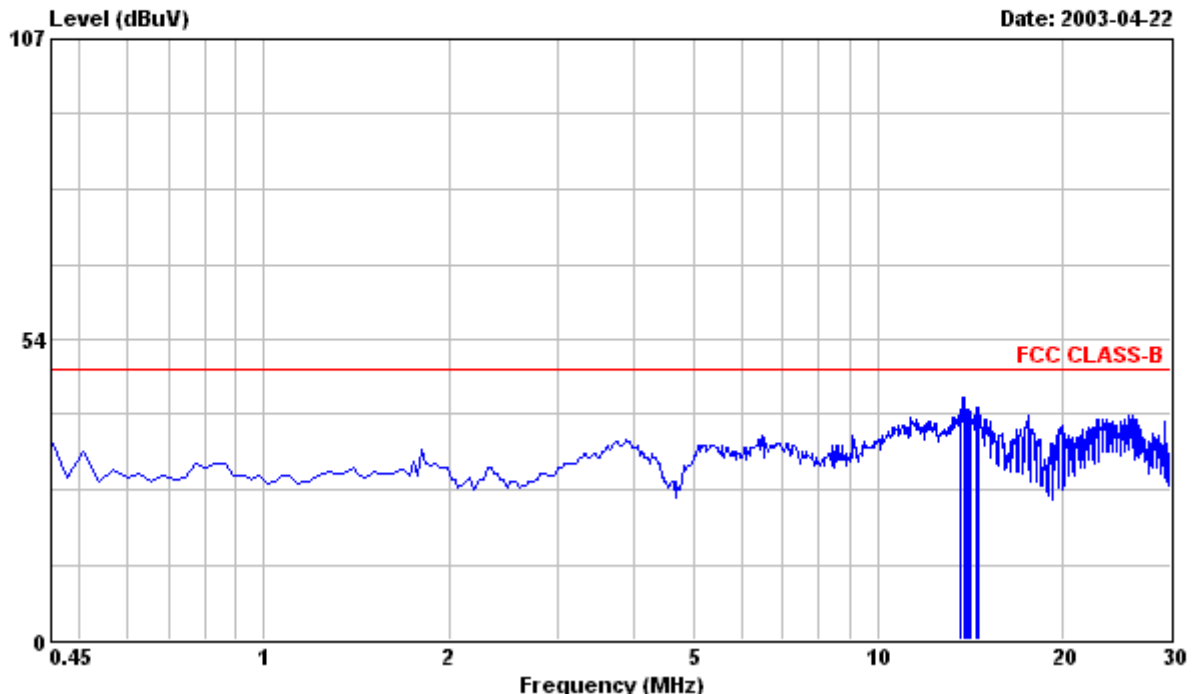


PHILIPS

Philips Electronics Industries (Taiwan)., Ltd.
No.5, Tze Chiang 1 Road, Chungli Industrial Park,
Chungli, Taiwan, R.O.C.
Tel:+886-3-4549862 Fax:+886-3-4549887

Data#: 8

File#: C:\Program Files\em3\EMI03-017-C(107B5 LG).emi



Site : PHILIPS EMI Shielding Room
Condition : FCC CLASS-B FCC_LCI_L2 NEUTRAL
EUT : PHILIPS 107B50 Serial No:TY0303179
Power : 220VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL LG PHILIPS CRT,RUN IBM
: V1.8 FONT 14 ARIAL "H" PATTERN.
: 3. 1024x768/85Hz 68.7KHz 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							

13.629	40.30	---	48.00	0.68	40.98	-7.02	Peak
13.807	42.50	---	48.00	0.68	43.18	-4.82	Peak
13.925	40.20	---	48.00	0.68	40.88	-7.12	Peak
14.043	40.50	---	48.00	0.68	41.18	-6.82	Peak
14.102	40.11	---	48.00	0.68	40.79	-7.21	Peak
14.161	39.60	---	48.00	0.69	40.29	-7.71	Peak
14.457	40.00	---	48.00	0.69	40.69	-7.31	Peak
14.575	40.60	---	48.00	0.69	41.29	-6.71	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

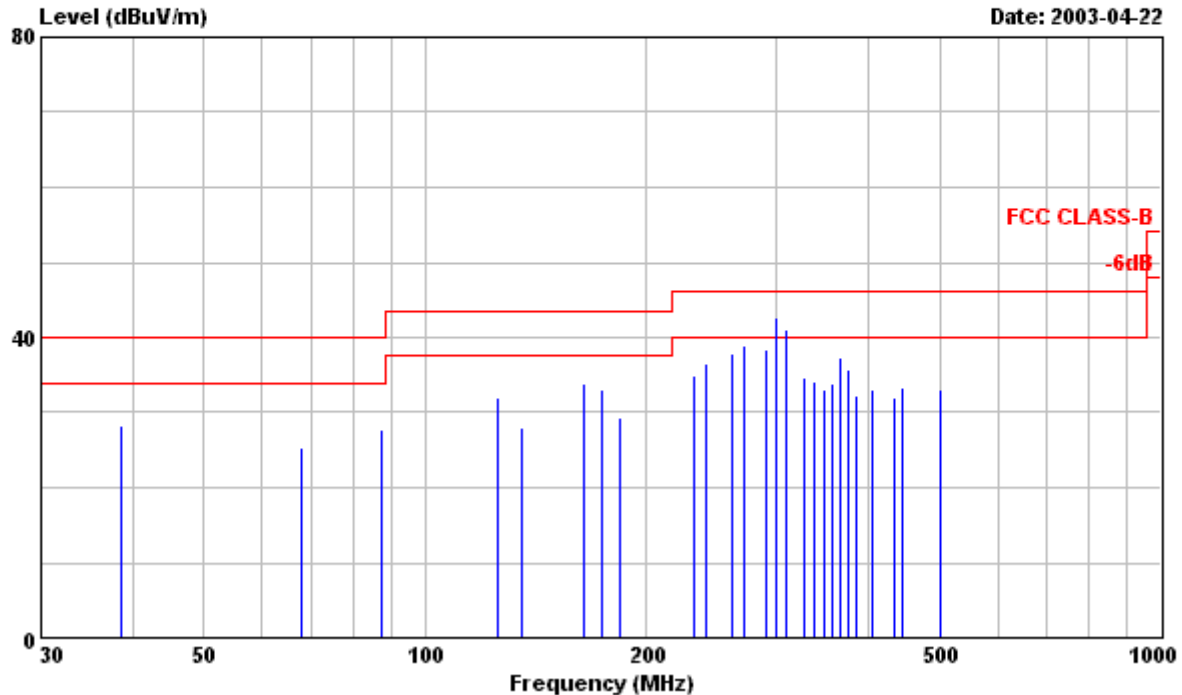


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No.5, Tze Chiang 1 Road, Chungli Industrial Park,
Chungli, Taiwan, R.O.C.
Tel:+886-3-4549862 Fax:+886-3-4549887

Data#: 1

File#: C:\Program Files\em3\EMI03-017-R.emi



Site : PHILIPS EMI 3M open site
Condition : FCC CLASS-B 3m FCC-3M-FACTOR HORIZONTAL
EUT : PHILIPS 107B50 Serial No:TY0303179
Power : 120-240VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL LG PHILIPS CRT,RUN IBM
: V1.8 FONT 16 ARIAL "H" PATTERN.
: 3. 1280x1024/75Hz 80KHz 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
HORIZONTAL

MHz	dBuV	dBuV	dBuV/m	dB/m	dBuV/m	dBuV/m	
38.630	15.70	---	40.00	12.47	28.17	-11.83	Peak
67.610	15.40	---	40.00	9.98	25.38	-14.62	Peak
86.950	16.90	---	40.00	10.75	27.65	-12.35	Peak
125.570	19.40	---	43.50	12.52	31.92	-11.58	Peak
135.240	15.20	---	43.50	12.89	28.09	-15.41	Peak
164.220	20.00	---	43.50	13.82	33.82	-9.68	Peak
173.870	18.90	---	43.50	14.07	32.97	-10.53	Peak
183.540	14.60	---	43.50	14.78	29.38	-14.12	Peak
231.840	16.00	---	46.00	19.06	35.06	-10.94	Peak
241.500	16.80	---	46.00	19.84	36.64	-9.36	Peak
260.810	16.70	---	46.00	21.12	37.82	-8.18	Peak

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



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No.5, Tze Chiang 1 Road, Chungli Industrial Park,
Chungli, Taiwan, R.O.C.
Tel:+886-3-4549862 Fax:+886-3-4549887

Frequency	Peak Reading	QP reading	Limit	Factor	Emission Level	Over Limit	Remark
HORIZONTAL							
MHz	dBuV	dBuV	dBuV/m	dB/m	dBuV/m	dBuV/m	
270.470	17.20	---	46.00	21.64	38.84	-7.16	Peak
289.780	15.70	---	46.00	22.68	38.38	-7.62	Peak
! 299.450	---	18.46	46.00	23.15	41.61	-4.39	QP
! 299.450	19.90	---	46.00	23.15	43.05	-2.95	Peak
! 309.090	24.30	---	46.00	16.66	40.96	-5.04	Peak
309.090	---	23.11	46.00	16.66	39.77	-6.23	QP
328.410	17.50	---	46.00	17.06	34.56	-11.44	Peak
338.080	17.10	---	46.00	17.27	34.37	-11.63	Peak
347.730	15.60	---	46.00	17.46	33.06	-12.94	Peak
357.380	16.10	---	46.00	17.65	33.75	-12.25	Peak
367.050	19.50	---	46.00	17.81	37.31	-8.69	Peak
376.700	17.80	---	46.00	18.00	35.80	-10.20	Peak
386.350	14.20	---	46.00	18.17	32.37	-13.63	Peak
405.680	14.60	---	46.00	18.48	33.08	-12.92	Peak
434.670	13.20	---	46.00	18.87	32.07	-13.93	Peak
444.320	14.20	---	46.00	19.02	33.22	-12.78	Peak
502.290	13.40	---	46.00	19.76	33.16	-12.84	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

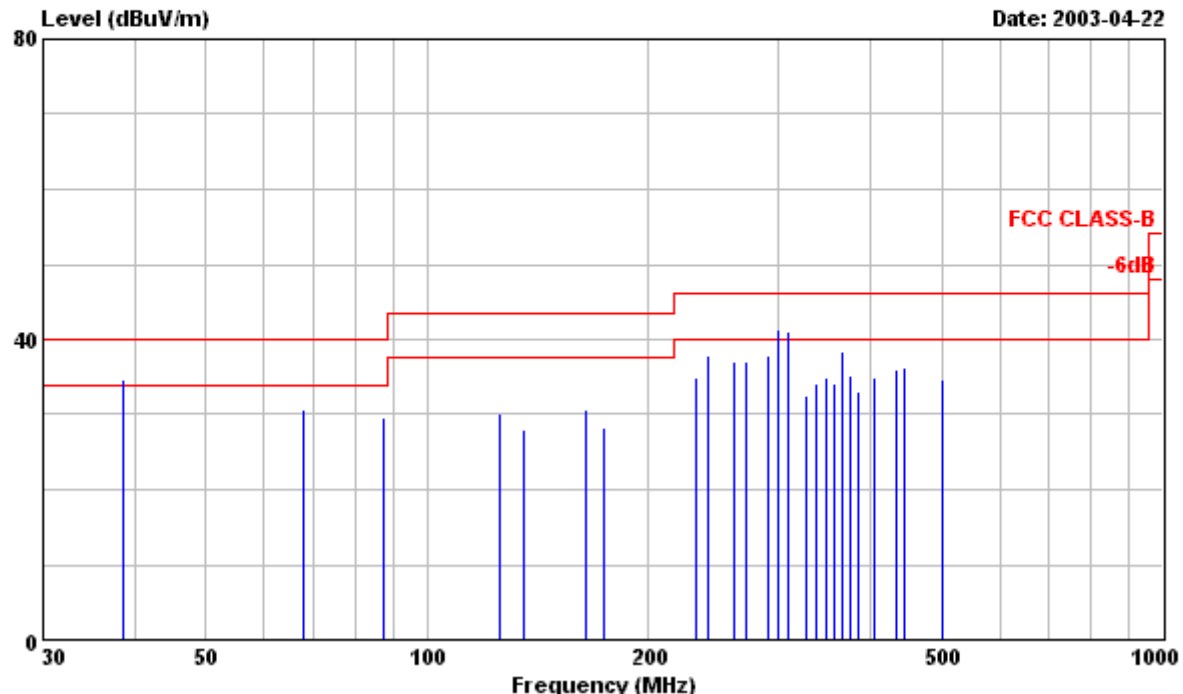


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Philips Electronics Industries (Taiwan)., Ltd.
No.5, Tze Chiang 1 Road, Chungli Industrial Park,
Chungli, Taiwan, R.O.C.
Tel:+886-3-4549862 Fax:+886-3-4549887

Data#: 2

File#: C:\Program Files\em3\EMI03-017-R.emi



Site : PHILIPS EMI 3M open site
Condition : FCC CLASS-B 3m FCC-3M-FACTOR VERTICAL
EUT : PHILIPS 107B50 Serial No:TY0303179
Power : 120-240VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL LG PHILIPS CRT,RUN IBM
: V1.8 FONT 16 ARIAL "H" PATTERN.
: 3. 1280x1024/75Hz 80KHz 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
VERTICAL							
MHz	dBuV	dBuV	dBuV/m	dB/m	dBuV/m	dBuV/m	
38.630	---	20.40	40.00	12.47	32.87	-7.13	QP
! 38.630	22.10	---	40.00	12.47	34.57	-5.43	Peak
67.610	20.80	---	40.00	9.98	30.78	-9.22	Peak
86.950	18.90	---	40.00	10.75	29.65	-10.35	Peak
125.570	17.70	---	43.50	12.52	30.22	-13.28	Peak
135.240	15.10	---	43.50	12.89	27.99	-15.51	Peak
164.220	16.90	---	43.50	13.82	30.72	-12.78	Peak
173.870	14.10	---	43.50	14.07	28.17	-15.33	Peak
231.840	16.00	---	46.00	19.06	35.06	-10.94	Peak
241.500	17.90	---	46.00	19.84	37.74	-8.26	Peak
260.810	15.90	---	46.00	21.12	37.02	-8.98	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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Philips Electronics Industries (Taiwan) ., Ltd.
No.5, Tze Chiang 1 Road, Chungli Industrial Park,
Chungli, Taiwan, R.O.C.
Tel:+886-3-4549862 Fax:+886-3-4549887

Frequency	Peak Reading	QP reading	Limit	Factor	Emission Level	Over Limit	Remark
					VERTICAL		
MHz	dBuV	dBuV	dBuV/m	dB/m	dBuV/m	dBuV/m	
270.470	15.50	---	46.00	21.64	37.14	-8.86	Peak
289.780	15.10	---	46.00	22.68	37.78	-8.22	Peak
! 299.450	18.20	---	46.00	23.15	41.35	-4.65	Peak
299.450	---	16.71	46.00	23.15	39.86	-6.14	QP
! 309.090	24.50	---	46.00	16.66	41.16	-4.84	Peak
309.090	---	23.29	46.00	16.66	39.95	-6.05	QP
328.410	15.50	---	46.00	17.06	32.56	-13.44	Peak
338.080	16.80	---	46.00	17.27	34.07	-11.93	Peak
347.730	17.50	---	46.00	17.46	34.96	-11.04	Peak
357.380	16.40	---	46.00	17.65	34.05	-11.95	Peak
367.050	20.50	---	46.00	17.81	38.31	-7.69	Peak
376.700	17.10	---	46.00	18.00	35.10	-10.90	Peak
386.350	14.80	---	46.00	18.17	32.97	-13.03	Peak
405.680	16.50	---	46.00	18.48	34.98	-11.02	Peak
434.670	17.20	---	46.00	18.87	36.07	-9.93	Peak
444.320	17.30	---	46.00	19.02	36.32	-9.68	Peak
502.290	14.80	---	46.00	19.76	34.56	-11.44	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

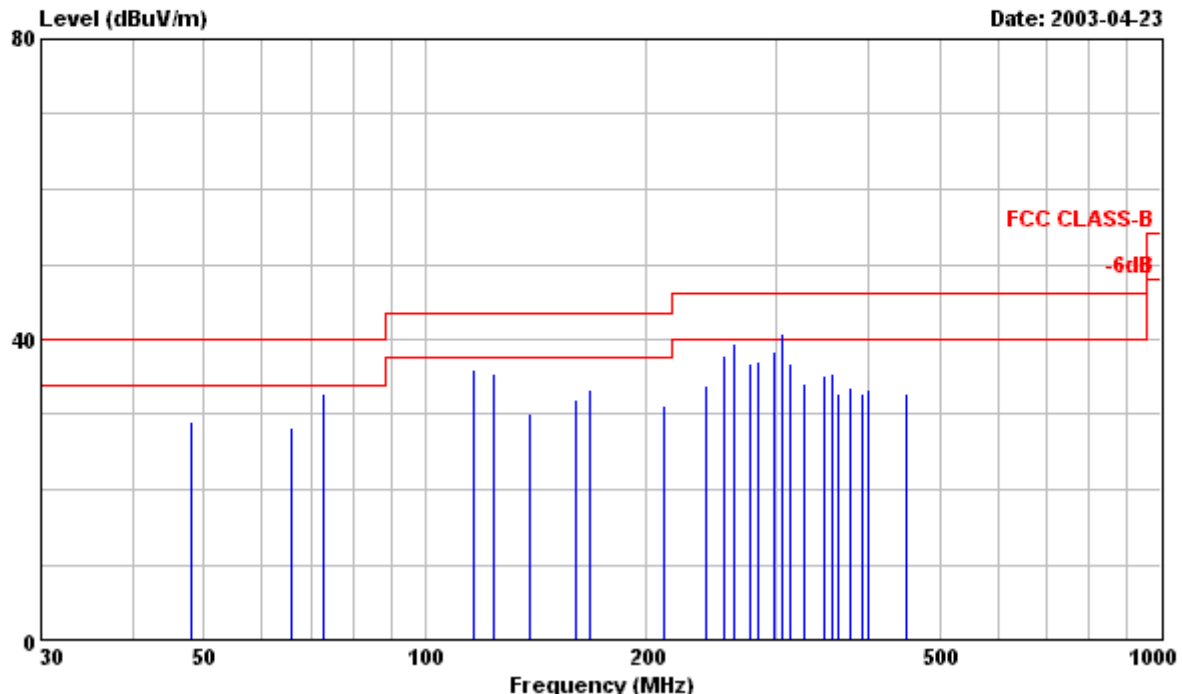


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Philips Electronics Industries (Taiwan)., Ltd.
No.5, Tze Chiang 1 Road, Chungli Industrial Park,
Chungli, Taiwan, R.O.C.
Tel:+886-3-4549862 Fax:+886-3-4549887

Data#: 3

File#: C:\Program Files\em3\EMI03-017-R.emi



Site : PHILIPS EMI 3M open site
Condition : FCC CLASS-B 3m FCC-3M-FACTOR HORIZONTAL
EUT : PHILIPS 107B50 Serial No:TY0303179
Power : 120-240VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL LG PHILIPS CRT,RUN IBM
: V1.8 FONT 14 ARIAL "H" PATTERN.
: 3. 1024x768/85Hz 68.7KHz 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
HORIZONTAL

MHz	dBuV	dBuV	dBuV/m	dB/m	dBuV/m	dBuV/m	
48.020	18.00	---	40.00	11.08	29.08	-10.92	Peak
65.540	18.40	---	40.00	9.96	28.36	-11.64	Peak
72.820	22.60	---	40.00	10.12	32.72	-7.28	Peak
116.510	23.80	---	43.50	12.23	36.03	-7.47	Peak
123.790	22.90	---	43.50	12.47	35.37	-8.13	Peak
138.350	17.10	---	43.50	13.01	30.11	-13.39	Peak
160.190	18.40	---	43.50	13.71	32.11	-11.39	Peak
167.460	19.30	---	43.50	13.90	33.20	-10.30	Peak
211.180	13.80	---	43.50	17.35	31.15	-12.35	Peak
240.280	14.20	---	46.00	19.71	33.91	-12.09	Peak
254.840	17.20	---	46.00	20.76	37.96	-8.04	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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Philips Electronics Industries (Taiwan) ., Ltd.
No.5, Tze Chiang 1 Road, Chungli Industrial Park,
Chungli, Taiwan, R.O.C.
Tel:+886-3-4549862 Fax:+886-3-4549887

Frequency	Peak Reading	QP reading	Limit	Factor	Emission Level	Over Limit	Remark
HORIZONTAL							
MHz	dBuV	dBuV	dBuV/m	dB/m	dBuV/m	dBuV/m	
262.120	18.41	---	46.00	21.17	39.58	-6.42	Peak
276.680	14.90	---	46.00	22.01	36.91	-9.09	Peak
283.970	14.60	---	46.00	22.37	36.97	-9.03	Peak
298.540	15.40	---	46.00	23.10	38.50	-7.50	Peak
! 305.800	24.10	---	46.00	16.59	40.69	-5.31	Peak
305.800	---	23.11	46.00	16.59	39.70	-6.30	QP
313.080	20.10	---	46.00	16.76	36.86	-9.14	Peak
327.640	17.10	---	46.00	17.06	34.16	-11.84	Peak
349.490	17.60	---	46.00	17.49	35.09	-10.91	Peak
356.770	17.80	---	46.00	17.63	35.43	-10.57	Peak
364.050	15.10	---	46.00	17.77	32.87	-13.13	Peak
378.620	15.50	---	46.00	18.02	33.52	-12.48	Peak
393.180	14.60	---	46.00	18.28	32.88	-13.12	Peak
400.460	14.90	---	46.00	18.40	33.30	-12.70	Peak
451.430	13.80	---	46.00	19.10	32.90	-13.10	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

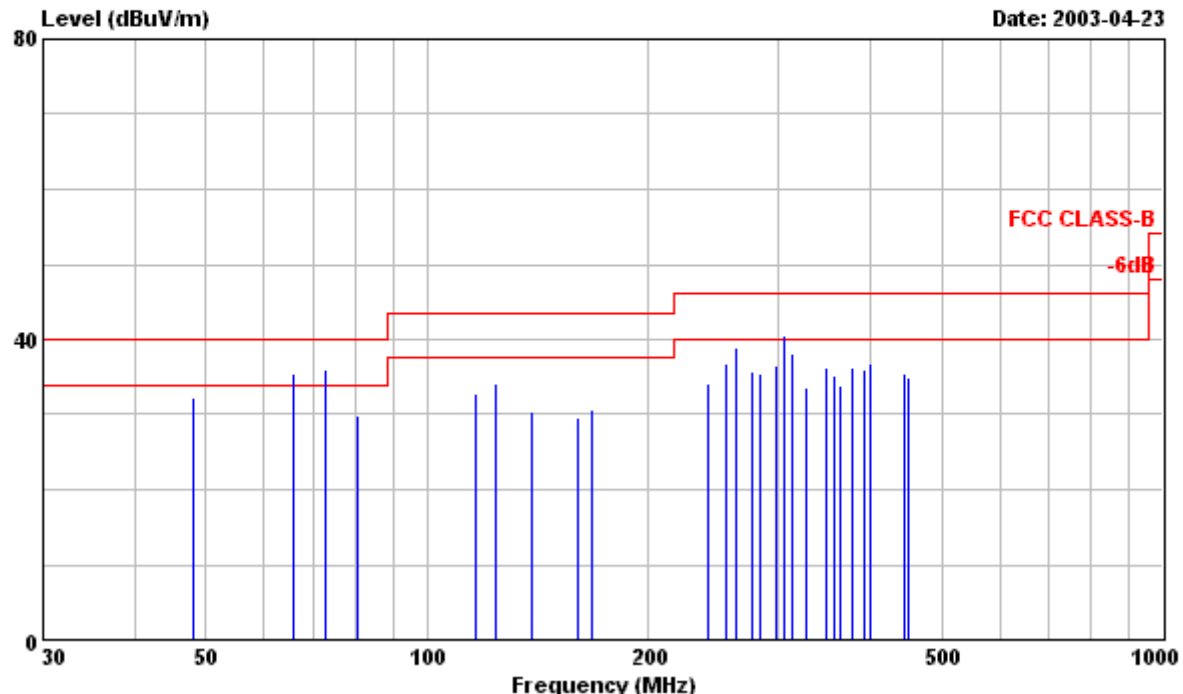


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No.5, Tze Chiang 1 Road, Chungli Industrial Park,
Chungli, Taiwan, R.O.C.
Tel:+886-3-4549862 Fax:+886-3-4549887

Data#: 4

File#: C:\Program Files\em3\EMI03-017-R.emi



Site : PHILIPS EMI 3M open site
Condition : FCC CLASS-B 3m FCC-3M-FACTOR VERTICAL
EUT : PHILIPS 107B50 Serial No:TY0303179
Power : 120-240VAC
Memo : 1. EMI EVALUATION FOR FCC SAMPLE.
: 2. 2ND MODEL LG PHILIPS CRT,RUN IBM
: V1.8 FONT 14 ARIAL "H" PATTERN.
: 3. 1024x768/85Hz 68.7KHz 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
MHz		dBuV	dBuV	dBuV/m	dB/m	dBuV/m	dBuV/m	
48.020		21.10	---	40.00	11.08	32.18	-7.82	Peak
! 65.540		25.50	---	40.00	9.96	35.46	-4.54	Peak
65.540		---	23.67	40.00	9.96	33.63	-6.37	QP
! 72.820		25.90	---	40.00	10.12	36.02	-3.98	Peak
! 72.820		---	24.40	40.00	10.12	34.52	-5.48	QP
80.110		19.50	---	40.00	10.40	29.90	-10.10	Peak
116.510		20.70	---	43.50	12.23	32.93	-10.57	Peak
123.790		21.80	---	43.50	12.47	34.27	-9.23	Peak
138.350		17.40	---	43.50	13.01	30.41	-13.09	Peak
160.190		15.80	---	43.50	13.71	29.51	-13.99	Peak
167.460		16.70	---	43.50	13.90	30.60	-12.90	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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No.5, Tze Chiang 1 Road, Chungli Industrial Park,
Chungli, Taiwan, R.O.C.
Tel:+886-3-4549862 Fax:+886-3-4549887

Frequency	Peak Reading	QP reading	Limit	Factor	Emission Level	Over Limit	Remark
					VERTICAL		
MHz	dBuV	dBuV	dBuV/m	dB/m	dBuV/m	dBuV/m	
240.280	14.60	---	46.00	19.71	34.31	-11.69	Peak
254.840	16.10	---	46.00	20.76	36.86	-9.14	Peak
262.120	17.80	---	46.00	21.17	38.97	-7.03	Peak
276.680	13.70	---	46.00	22.01	35.71	-10.29	Peak
283.970	13.00	---	46.00	22.37	35.37	-10.63	Peak
298.540	13.40	---	46.00	23.10	36.50	-9.50	Peak
! 305.800	24.00	---	46.00	16.59	40.59	-5.41	Peak
305.800	---	22.93	46.00	16.59	39.52	-6.48	QP
313.080	21.40	---	46.00	16.76	38.16	-7.84	Peak
327.640	16.60	---	46.00	17.06	33.66	-12.34	Peak
349.490	18.70	---	46.00	17.49	36.19	-9.81	Peak
356.770	17.60	---	46.00	17.63	35.23	-10.77	Peak
364.050	16.10	---	46.00	17.77	33.87	-12.13	Peak
378.620	18.20	---	46.00	18.02	36.22	-9.78	Peak
393.180	17.70	---	46.00	18.28	35.98	-10.02	Peak
400.460	18.50	---	46.00	18.40	36.90	-9.10	Peak
444.150	16.40	---	46.00	19.02	35.42	-10.58	Peak
451.430	15.80	---	46.00	19.10	34.90	-11.10	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