

## Statement of Data Measured and Test Data

### 1. General Information of EUT

The EUT, 17" color monitor :

Model No. : 107B30  
 FCC ID : A3KM102  
 Brand : Philips

The color monitor automatically scans horizontal frequencies between 30KHz and 86KHz, and vertical frequencies between 60Hz and 120Hz. This color monitor displays sharp and brilliant images of text and graphics with a maximum resolution up to 1600x1200 pixels. .

The monitor has 14 factory-preset modes as indicated in the following table:

	Resolution	H-Frequency	V-Frequency	Remark
M01	720 X 400	31.5KHZ	70Hz	Non-interlaced
M02	640 X 480	31.5KHZ	60Hz	Non-interlaced
M03	800 X 600	46.8KHz	75Hz	Non-interlaced
M04	800 X 600	53.7KHz	85Hz	Non-interlaced
M05	1024 X 768	60.0KHz	75Hz	Non-interlaced
M06	1024 X 768	68.7KHz	85Hz	Non-interlaced
M07	1280 X 1024	80.0KHz	75Hz	Non-interlaced
M08	640 x 480	43.3KHz	85Hz	Non-interlaced

### 2. Test Equipment and Procedure

Test was performed by:

PHILIPS ELECTRONICS INDUSTRIES (TAIWAN) LTD.  
 CONSUMER ELECTRONICS DIVISION  
 EMI - LAB

5, Tze Chiang 1 Road, Chungli Industrial Park  
 P.O. Box 123, Chungli, Taoyuan, Taiwan  
 R. O. C.  
 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"

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.

Test Equipment	Model No.	Serial No.	Next Calibrate
Spectrum	HP8568B	2928A40640	7/25/2001
RF Preselector	HP85685A	2620A00338	7/25/2001
QP Adapter	HP85650A	2811A01324	7/25/2001
EMI Receiver	HP85460A	3441A00199	9/05/2001
EMI Receiver	R & S ESVS30	8419977/066	5/28/2002
Biconical Antenna	EMCO 3110B	3222	4/27/2002
Biconical Antenna	EMCO 3110B	3224	4/27/2002
Log-Periodic Antenna	EMCO 3146A	1424	4/27/2002
Log-Periodic Antenna	EMCO 3146A	1425	4/27/2002
LISN	EMCO 3825/2	9311-2153	11/27/2001
LISN	EMCO 3825/2	9311-2154	11/27/2001
Turn Table	EMCO 1060	1068	11/27/2001
Antenna Tower	EMCO 1050	1113	11/27/2001
RF Cable	M17/75-RG214-NE	N/A	11/27/2001
Computer	HP9000/300	2614A78610	N/A
Printer	HP2225A	2728S02586	N/A
Plotter	HP7440A	2539A40856	N/A

Traceability to R.O.C. and international standards is assured by using calibrated all equipment.

For system measurement, the EUT “107B30” was connected to:

Item	Model No.	Serial No.	FCC ID
1. Computer	SCENIC 661P III	171617	HSSSCENIC6511
2. Keyboard	S26381-K252	H0S02	HSS01TSTK252
3. Mouse	Logitech M-S48A	LZA95220043	JNZ201213
4. Printer	HP 2225C	3123S97227	DSI6XU2225
5. Modem	USRobotics 268	0002680559278575	CJE-0318
6. Vide Card	S3 Trio 3D/2X	C10N091416	FCC Logo

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.

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.

Tested and reported modes as following:

Report No.	Resolution	Frequencies	I/F Cable
EMI01-017	1280x1024	80.0KHz/75Hz	D-sub
EMI01-017A	1600x1200	75.0KHz/60Hz	D-sub

### 3. Test Program and Test Results

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.

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.

The radiated (open site) data has included antenna and cable factors, sample calculation:

$$\text{Final Value (dB}\mu\text{V/m)} = \text{Reading (dB}\mu\text{V)} + \text{Antenna Factor (dB)} + \text{Cable Loss (dB)}$$

The measured data of radiated RF interference at open site and line conducted interference as attached.

**Uncertainty Statement:** 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/dB
Uncertainty	
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/dB
Uncertainty	
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

The subject device is in compliance with the limits for a class B digital device, pursuant to part 15, subpart B of FCC rules.

Ronnie Yang - Manager, Safety/DEV  
NVLAP Signatory