

APPLICATION FOR CERTIFICATION
On Behalf of

Philips Electronics Industries (Taiwan) Ltd.
Flat Panel Color Monitor

Model No. : 300WN5

Brand : Philips

FCC ID: A3KM131

Prepared for : Philips Electronics Industries (Taiwan) Ltd.
5, Tze Chiang 1 Rd, Chungli Ind. Park,
Chungli, Taoyuan Hsien, Taiwan, R.O.C.

Prepared By : AUDIX Corporation
Technical Division EMC Department
No. 53-11, Tin-Fu Tsun, Lin-Kou,
Taipei Hsien, Taiwan, R.O.C.

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Date of Test : Jan. 07 ~ 12, 2004
Date of Report : Jan. 14, 2004

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TEST REPORT CERTIFICATION

Applicant : Philips Electronics Industries (Taiwan) Ltd.
 Manufacturer : Philips Electronics Industries (Taiwan) Ltd.
 EUT Description : Flat Panel Color Monitor
 FCC ID : A3KM131
 (A) MODEL NO. : 300WN5
 (B) SERIAL NO. : TY0304735
 (C) BRAND NAME : Philips
 (D) POWER SUPPLY : AC 100-240V~ 60-50Hz
 (Test Voltage: AC 120V/60Hz)

Measurement Standards and Methods Used :

FCC CFR 47 Part15 / Dec. 2003 and ANSI C63.4-2001

The device described above was tested by AUDIX CORPORATION to determine the maximum emission levels emanating from the device. The maximum emission levels were compared to the Class B radiated emission limit against the §15.109(a) of FCC Part 15 and the conducted emission limit of §15.107(a) of FCC Part 15.

The measurement results are contained in this test report and AUDIX CORPORATION is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliance with the FCC official limits.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of Audix Corporation.

Date of Test : Jan. 07 ~ 12, 2004

Prepared by : Julie Hsu mar. 9. 2014
(Julie Hsu/Assistant Officer)

Test Engineer : Allen Wang Mar. 09, 2004
(Allen Wang/Deputy Manager)

Approved & Authorized Signer : Leon Liu Mar. 9 2004
(Leon Liu/Assistant General Manager)

Name of the Representative of the Responsible Party :

Signature :

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Description	:	Flat Panel Color Monitor (The TV Tuner & A/V Functions are not available in this test report)
Model Number	:	300WN5
Serial Number	:	TY0304735
FCC ID.	:	A3KM131
Brand	:	Philips
Applicant	:	Philips Electronics Industries (Taiwan) Ltd. 5, Tze Chiang 1 Rd, Chungli Ind. Park, Chungli, Taoyuan Hsien, Taiwan, R.O.C.
Manufacturer	:	Philips Electronics Industries (Taiwan) Ltd. 5, Tze Chiang 1 Rd, Chungli Ind. Park, Chungli, Taoyuan Hsien, Taiwan, R.O.C.
CRT	:	LG Philips, M/N LC300W01
Scanning Frequency	:	Horizontal: 31-49kHz Vertical: 56-61Hz
Max Resolution	:	1280*768
D-Sub Data Cable	:	Shielded, Detachable, 1.8m Bonded two ferrite cores
DVI Data Cable	:	Shielded, Detachable, 1.8m Bonded two ferrite cores
Power Cord	:	Non-Shielded, Detachable, 1.8m
Data of Receipt of Sample	:	Jan. 07, 2004
Date of Test	:	Jan. 07 ~ 12, 2004

1.2. Tested Supporting System Details

1.2.1. PERSONAL COMPUTER

Model Number	:	HP VECTRA XE320
Serial Number	:	SG21101987
FCC ID	:	By DoC
BSMI ID	:	3912A318
Brand	:	HP
Manufacturer	:	First International Computer, Inc.
VGA Card	:	ATI, M/N Radeon VE 32M BSMI ID.3902A986, FCC by DoC
Audio Cable	:	Non-Shielded, Detachable, 1.8m
Power Cord	:	Non-Shielded, Detachable, 1.8m

1.2.2. KEYBOARD

Model Number	:	SK-2502C
Serial Number	:	M020235982
BSMI ID	:	3872F107
FCC ID	:	by DoC
Manufacturer	:	Siltek (Brand: HP)
Data Cable	:	Shielded, Undetachable, 1.8m

1.2.3. MODEM #1

Model Number	:	DM-1414
Serial Number	:	980034382
FCC ID	:	IFAXDM1414
Manufacturer	:	Accex
Data Cable	:	Shielded, Detachable, 1.2m
Power Adapter	:	Amigo, M/N AM-91000A Non-Shielded, Undetachable, 1.8m

1.2.4. MODEM #2

Model Number	:	DM-1414
Serial Number	:	980034381
FCC ID	:	IFAXDM1414
Manufacturer	:	Accex
Data Cable	:	Shielded, Detachable, 1.2m
Power Adapter	:	Amigo, M/N AM-91000A Non-Shielded, Undetachable, 1.8m

1.2.5. PS2 MOUSE

Model Number	:	M-S48a
Serial Number	:	LZE20501511
FCC ID	:	JNZ201213
BSMI ID	:	4882A001
Manufacturer	:	Logitech (Brand: HP)
Data Cable	:	Non-Shielded, Undetachable, 1.8m

1.2.6. DOT MATRIX PRINTER

Model Number	:	KX-P2135
Serial Number	:	8DMCNC02139
BSMI ID	:	3872A371
FCC ID	:	ACJ5Z6KX-P2135
Brand	:	Panasonic
Manufacturer	:	Matsushita
Data Cable	:	Non-Shielded, Detachable, 1.5m
Power Cord	:	Non-Shielded, Undetachable, 1.8m

1.2.7. MICROPHONE

Model Number	:	HD-303
Serial Number	:	N/A
Manufacturer	:	Multimedia Microphone System
Data Cable	:	Non-Shielded, Undetachable, 2.2m

1.2.8. WALKMAN

Model Number	:	RQ-P35LT-K
Serial Number	:	HA08623
Manufacturer	:	Panasonic
Data Cable	:	Non-Shielded, Detachable, 1.8m

1.2.9. MICRO VAULT #1

Model Number	:	USM64U2
Serial Number	:	N/A
FCC ID	:	By DoC
BSMI ID	:	D33021
Manufacturer	:	SONY
Data Cable	:	Non-Shielded, Detachable, 1.5m

1.2.10. MICRO VAULT #2

Model Number	:	USM64U2
Serial Number	:	N/A
FCC ID	:	By DoC
BSMI ID	:	D33021
Manufacturer	:	SONY
Data Cable	:	Non-Shielded, Detachable, 1.5m

1.2.11. EARPHONE (Link to EUT)

Model Number	:	N/A
Manufacturer	:	Panasonic
Earphone Cable	:	Non-Shielded, Undetachable, 1.1m

1.2.12. RS-232 Data Cable

Data Cable	:	Non-Shielded, Detachable, 1.5m
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1.3. Test Facility

Name of Firm : Audix Corporation
Technical Division EMC Department

Location : No. 53-11, Tin-Fu Tsun, Lin-Kou Hsiang,
Taipei Hsien 24443, Taiwan, R.O.C.

Test Facility & Location (C4/R4) : **No. 4 Shielded Room**
No. 4 Open Test Site
No. 67-4, Tin-Fu Tsun, Lin-Kou Hsiang,
Taipei Hsien 24443, Taiwan, R.O.C.
Mar. 31, 2003 Re-File on
Federal Communication Commission
Registration Number: 90991

NVLAP Lab. Code : 200077-0
(NVLAP is a NATA accredited body under Mutual Recognition Agreement)

DAR-Registration No. : DAT-P-145/03-00

1.4. Measurement Uncertainty

Test Item	Frequency Range	Uncertainty (dB), (V/m)
Conduction Test	150kHz~30MHz	±2.66dB
Radiation Test (Distance: 10m)	30MHz~300MHz	+4.5dB / -4.5dB
	300MHz~1000MHz	+3.88dB / -3.84dB

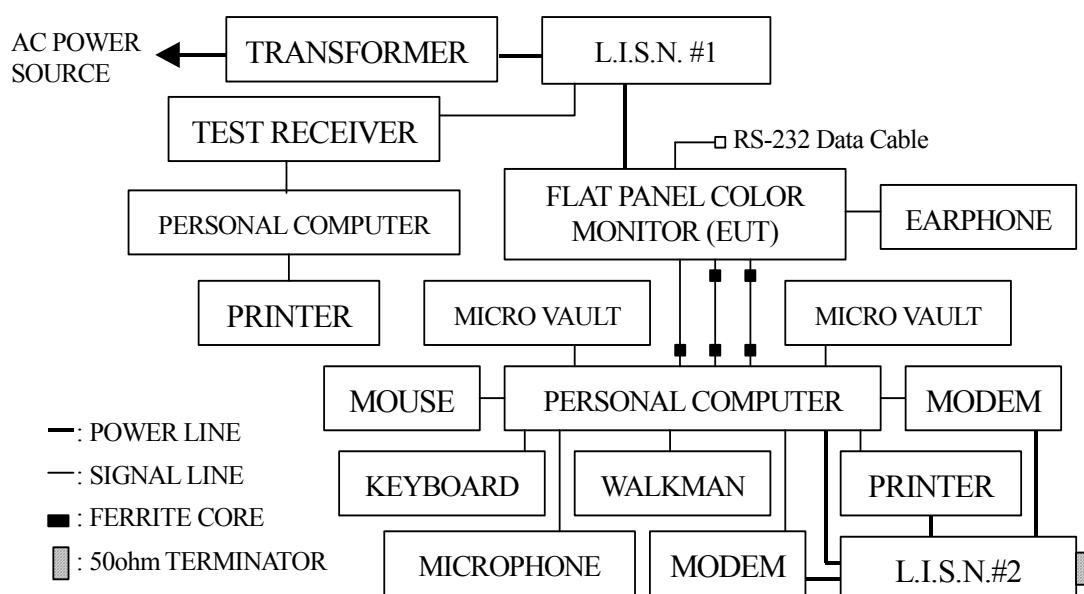
2. CONDUCTED DISTURBANCE MEASUREMENT

2.1. Test Equipment

The following test equipments are used during the power line conducted tests :

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Test Receiver	Rohde & Schwarz	ESHS10	844591/015	Mar.05, 03'	Mar.04, 04'
2.	L.I.S.N. # 1	Kyoritsu	KNW-407	8-1430-5	Nov.20, 03'	Nov.19, 04'
3.	L.I.S.N. # 2	Kyoritsu	KNW-407	8-1430-6	Nov.20, 03'	Nov.19, 04'

2.2. Block Diagram of Test Setup



2.3. Powerline Conducted Emission Limit (Class B)

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level	Average Level
150kHz ~ 500kHz	66 ~ 56 dB μ V	56 ~ 46 dB μ V
500kHz ~ 5MHz	56 dB μ V	46 dB μ V
5MHz ~ 30MHz	60 dB μ V	50 dB μ V

- Remark:
1. If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with the average detector is unnecessary.
 2. The lower limit applies at the band edges.

2.4. EUT's Configuration during Compliance Measurement

The following equipments were installed on RF LINE VOLTAGE measurement to meet the Commission requirement and operating in a manner which tended to maximize its emission characteristics in a normal application.

2.4.1. Flat Panel Color Monitor (EUT)

Model Number	:	300WN5
Serial Number	:	TY0304735
FCC ID	:	A3KM131
Manufacturer	:	Philips Electronics Industries (Taiwan) Ltd.
CRT	:	LG Philips, M/N LC300W01
Scanning Frequency	:	Horizontal: 31-49kHz Vertical: 56-61Hz
Max Resolution	:	1280*768
D-Sub Data Cable	:	Shielded, Detachable, 1.8m Bonded two ferrite cores
DVI Data Cable	:	Shielded, Detachable, 1.8m Bonded two ferrite cores
Power Cord	:	Non-Shielded, Detachable, 1.8m

2.4.2. Supporting System : As in Section 1.2

2.5. Operating Condition of EUT

- 2.5.1. Setup the EUT and simulator as shown on 2.2.
- 2.5.2. Turned on the power of all equipments.
- 2.5.3. Personal computer read data from disk.
- 2.5.4. VGA IN Display : Personal computer running the EMI self-test program "IBM 1.8" and sent "H" character to Monitor (EUT), the screen of Monitor (EUT) displayed and filled with "H" pattern by EUT's resolution.
- 2.5.5. PIP Display : Personal computer running the EMI self-test program "IBM 1.8" and sent "H" character to Monitor (EUT), the screen of Monitor (EUT) displayed with "H" pattern and the "snowflakes" image.
- 2.5.6. Personal Computer read data from FDD and then wrote data into FDD, same operation from HDD 、Modem.
- 2.5.7. The other peripheral devices were drove and operated in turn during all testing.
- 2.5.8. Repeat above procedure from 2.5.3 to 2.5.7.

2.6. Test Procedure

The EUT was connected to the power mains through a line impedance stabilization network (L.I.S.N. #1). The other peripheral devices power cord connected to the power mains through a line impedance stabilization network (L.I.S.N. #2). This provided a 50ohm coupling impedance for the measuring equipment. (Please refer to the block diagram of the test setup and photographs.)

Both sides of A.C. line were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to FCC ANSI C63.4-2001 on conducted measurement.

The bandwidth of the R&S Test Receiver ESHS10 was set at 10kHz.

The frequency range from 150kHz to 30MHz was checked.

2.7. Test Results

PASSED. Please refer to the following pages.

(All the emissions not reported below are too low against the prescribed limits.)

The EUT with following test modes and with AC 120V/60Hz supplying voltage were performed during conducted testing and all the test results are listed in next section.

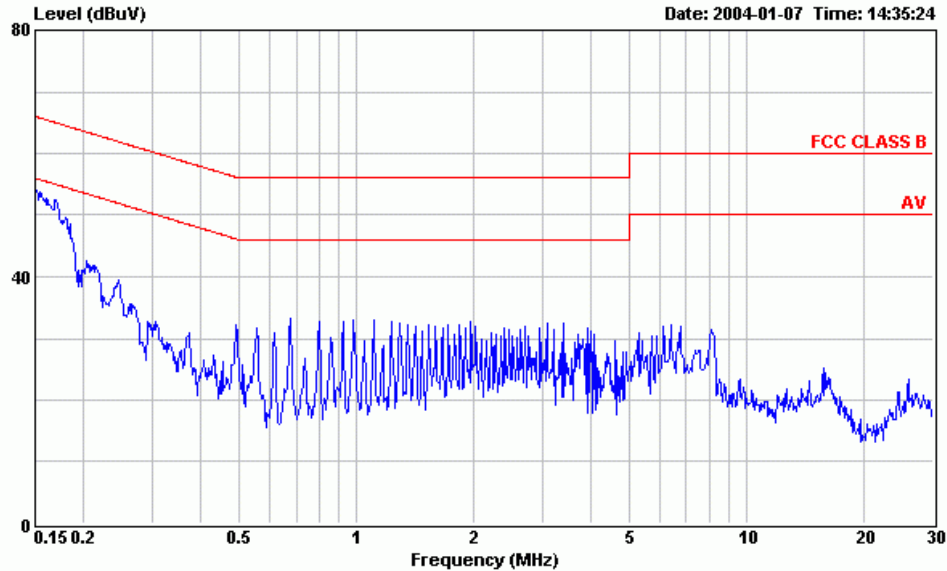
Test Date : Jan. 07, 2004 Temperature : 22°C Humidity : 65%

No.	Display	Frequency / Resolution.	Data Cable	Reference Test Data #
1.	VGA IN (H Pattern)	640*480/60Hz, 31kHz	D-Sub	16 (17, 18); 13 (14, 15)
2.		1024*768/60Hz, 48kHz		7 (8, 9); 10 (11, 12)
3.		1280*768/60Hz, 48kHz		4 (5, 6); 1 (2, 3)
4.	VGA IN (H Pattern)	640*480/60Hz, 31kHz	DVI	19 (20, 21); 22 (23, 24)
5.		1024*768/60Hz, 48kHz		28 (29, 30); 25 (26, 27)
6.		1280*768/60Hz, 48kHz		31 (32, 33); 34 (35, 36)
7.	PIP	1280*768/60Hz, 48kHz	D-Sub	40 (41, 42); 37 (38, 39)



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Data#: 16 File#: C:\Philips-EM930007.EMI



Site : No.4 Shielded room
 Condition : FCC CLASS B KNW-407(S/R4-031127) NEUTRAL
 EUT : Flat panel color monitor M/N:300WN5
 POWER : 120Vac / 60Hz(22°C / 65%)
 MEMO : 640*480 / 60Hz;31KHz(D-SUB) (LPL:735)

Data#: 17 File#: C:\Philips-EM930007.EMI

Date: 2004-01-07 Time: 14:36:57

Site : No.4 Shielded room
 Condition : FCC CLASS B KNW-407(S/R4-031127) NEUTRAL
 EUT : Flat panel color monitor M/N:300WN5
 POWER : 120Vac / 60Hz(22°C / 65%)
 MEMO : 640*480 / 60Hz;31KHz(D-SUB) (LPL:735)

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.152	49.60	-16.29	65.89	49.27	0.30	0.03	QP
2	0.197	37.05	-26.71	63.76	36.79	0.21	0.05	QP
3	0.553	30.95	-25.05	56.00	30.82	0.10	0.03	QP
4	1.106	31.97	-24.03	56.00	31.81	0.10	0.06	QP
5	2.216	30.50	-25.50	56.00	30.32	0.10	0.08	QP
6	5.506	23.35	-36.65	60.00	23.14	0.13	0.08	QP

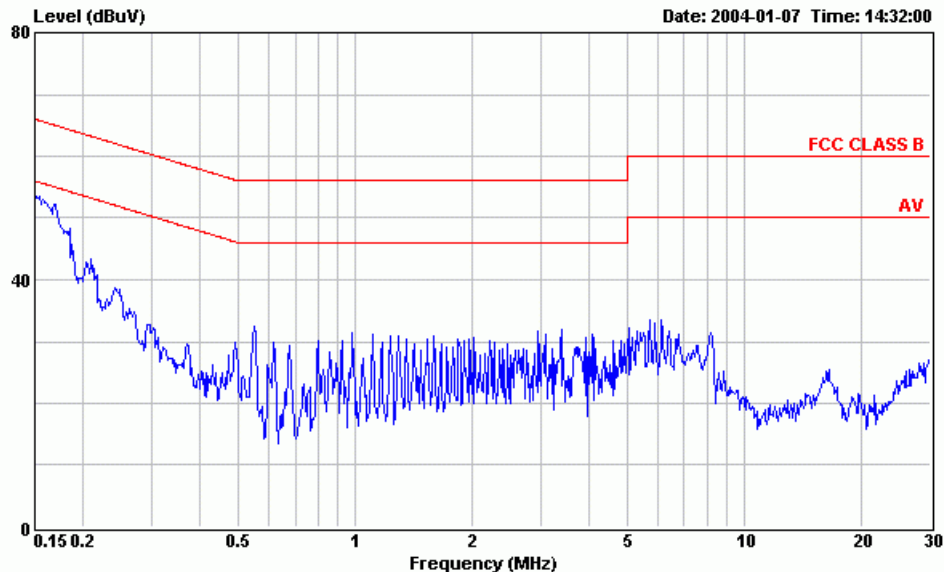
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	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.152	36.33	-19.56	55.89	36.00	0.30	0.03	Average
2	0.197	26.56	-27.20	53.76	26.30	0.21	0.05	Average
3	0.553	28.13	-17.87	46.00	28.00	0.10	0.03	Average
4	1.106	29.64	-16.36	46.00	29.48	0.10	0.06	Average
5	2.216	26.53	-19.47	46.00	26.35	0.10	0.08	Average
6	5.506	15.19	-34.81	50.00	14.98	0.13	0.08	Average



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Data#: 13 File#: C:\Philips-EM930007.EMI



Site : No.4 Shielded room
Condition : FCC CLASS B KNW-407(S/R4-031127) LINE
EUT : Flat panel color monitor M/N:300WN5
POWER : 120Vac / 60Hz(22°C / 65%)
MEMO : 640*480 / 60Hz;31KHz(D-SUB) (LPL:735)

Data#: 14 File#: C:\Philips-EM930007.EMI

Date: 2004-01-07 Time: 14:32:56

Site : No.4 Shielded room
Condition : FCC CLASS B KNW-407(S/R4-031127) LINE
EUT : Flat panel color monitor M/N:300WN5
POWER : 120Vac / 60Hz(22°C / 65%)
MEMO : 640*480 / 60Hz;31KHz(D-SUB) (LPL:735)

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.152	49.34	-16.55	65.89	49.01	0.30	0.03	QP
2	0.194	37.20	-26.66	63.86	36.94	0.21	0.05	QP
3	0.552	31.31	-24.69	56.00	31.18	0.10	0.03	QP
4	1.107	30.17	-25.83	56.00	30.01	0.10	0.06	QP
5	2.214	29.71	-26.29	56.00	29.53	0.10	0.08	QP
6	5.505	27.47	-32.53	60.00	27.26	0.13	0.08	QP

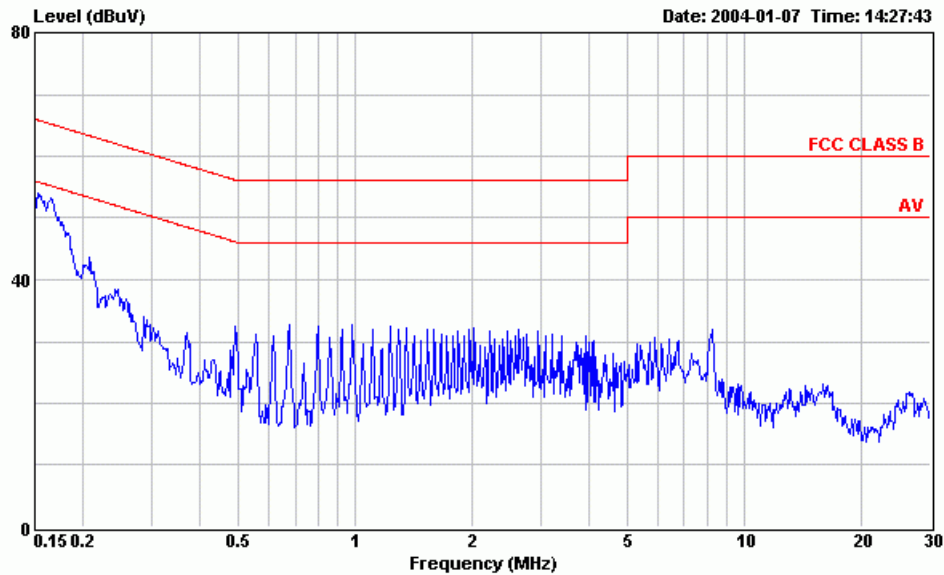
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	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.152	36.60	-19.29	55.89	36.27	0.30	0.03	Average
2	0.194	27.23	-26.63	53.86	26.97	0.21	0.05	Average
3	0.552	28.75	-17.25	46.00	28.62	0.10	0.03	Average
4	1.107	27.92	-18.08	46.00	27.76	0.10	0.06	Average
5	2.214	24.63	-21.37	46.00	24.45	0.10	0.08	Average
6	5.505	19.29	-30.71	50.00	19.08	0.13	0.08	Average



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 Web:www.ttemc.com.tw

Data#: 7 File#: C:\Philips-EM930007.EMI



Site : No.4 Shielded room
 Condition : FCC CLASS B KNW-407(S/R4-031127) NEUTRAL
 EUT : Flat panel color monitor M/N:300WN5
 POWER : 120Vac / 60Hz(22°C / 65%)
 MEMO : 1024*768 / 60Hz;48KHz(D-SUB) (LPL:735)

Data#: 8 File#: C:\Philips-EM930007.EMI

Date: 2004-01-07 Time: 14:28:57

Site : No.4 Shielded room
 Condition : FCC CLASS B KNW-407(S/R4-031127) NEUTRAL
 EUT : Flat panel color monitor M/N:300WN5
 POWER : 120Vac / 60Hz(22°C / 65%)
 MEMO : 1024*768 / 60Hz;48KHz(D-SUB) (LPL:735)

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.152	50.40	-15.49	65.89	50.07	0.30	0.03	QP
2	0.190	38.66	-25.36	64.02	38.39	0.22	0.05	QP
3	0.554	30.25	-25.75	56.00	30.12	0.10	0.03	QP
4	1.106	31.63	-24.37	56.00	31.47	0.10	0.06	QP
5	2.214	30.92	-25.08	56.00	30.74	0.10	0.08	QP
6	5.499	23.51	-36.49	60.00	23.30	0.13	0.08	QP

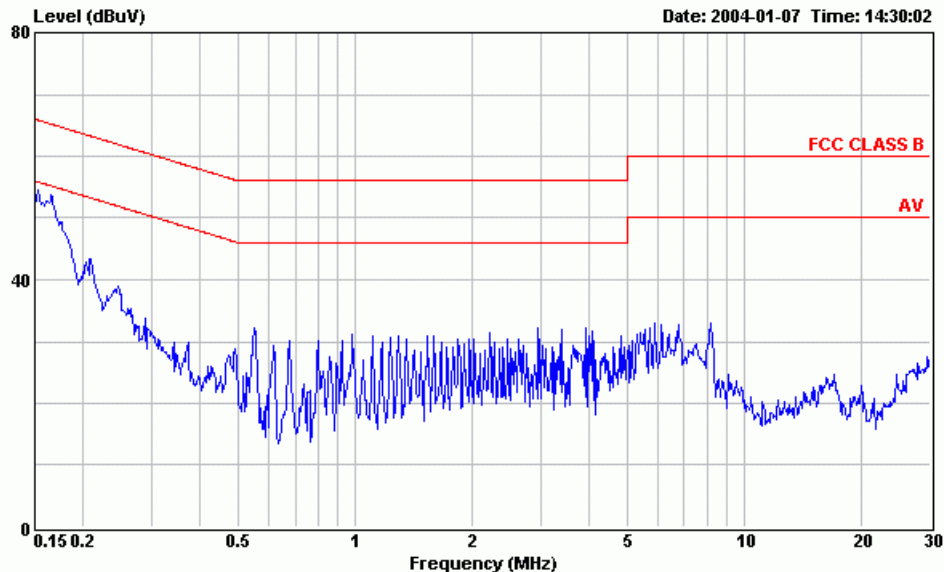
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	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.152	38.91	-16.98	55.89	38.58	0.30	0.03	Average
2	0.190	33.30	-20.72	54.02	33.03	0.22	0.05	Average
3	0.554	27.66	-18.34	46.00	27.53	0.10	0.03	Average
4	1.106	29.53	-16.47	46.00	29.37	0.10	0.06	Average
5	2.214	25.98	-20.02	46.00	25.80	0.10	0.08	Average
6	5.499	15.28	-34.72	50.00	15.07	0.13	0.08	Average



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Data#: 10 File#: C:\Philips-EM930007.EMI



Site : No.4 Shielded room
Condition : FCC CLASS B KNW-407(S/R4-031127) LINE
EUT : Flat panel color monitor M/N:300WN5
POWER : 120Vac / 60Hz(22°C / 65%)
MEMO : 1024*768 / 60Hz;48KHz(D-SUB) (LPL:735)

Data#: 11 File#: C:\Philips-EM930007.EMI

Date: 2004-01-07 Time: 14:30:37

Site : No.4 Shielded room
Condition : FCC CLASS B KNW-407(S/R4-031127) LINE
EUT : Flat panel color monitor M/N:300WN5
POWER : 120Vac / 60Hz(22°C / 65%)
MEMO : 1024*768 / 60Hz;48KHz(D-SUB) (LPL:735)

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.152	50.12	-15.77	65.89	49.79	0.30	0.03	QP
2	0.189	39.98	-24.10	64.08	39.71	0.22	0.05	QP
3	0.550	30.90	-25.10	56.00	30.77	0.10	0.03	QP
4	1.107	30.05	-25.95	56.00	29.89	0.10	0.06	QP
5	2.214	30.23	-25.77	56.00	30.05	0.10	0.08	QP
6	5.505	27.80	-32.20	60.00	27.59	0.13	0.08	QP

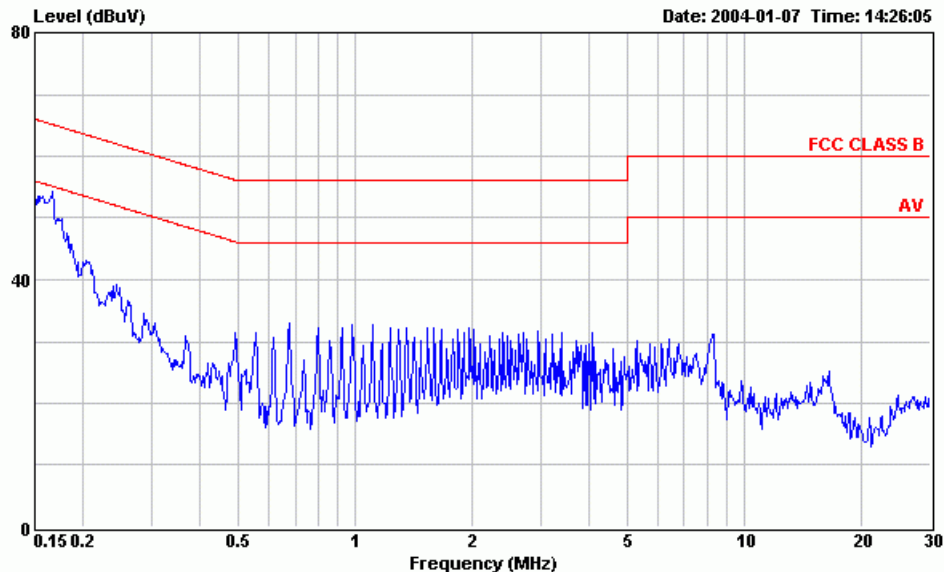
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	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.152	38.26	-17.63	55.89	37.93	0.30	0.03	Average
2	0.189	36.32	-17.76	54.08	36.05	0.22	0.05	Average
3	0.550	28.69	-17.31	46.00	28.56	0.10	0.03	Average
4	1.107	27.92	-18.08	46.00	27.76	0.10	0.06	Average
5	2.214	24.63	-21.37	46.00	24.45	0.10	0.08	Average
6	5.505	19.60	-30.40	50.00	19.39	0.13	0.08	Average



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 Web:www.ttemc.com.tw

Data#: 4 File#: C:\Philips-EM930007.EMI



Site : No.4 Shielded room
 Condition : FCC CLASS B KNW-407(S/R4-031127) NEUTRAL
 EUT : Flat panel color monitor M/N:300WN5
 POWER : 120Vac / 60Hz(22°C / 65%)
 MEMO : 1280*768 / 60Hz;48KHz(D-SUB) (LPL:735)

Data#: 5 File#: C:\Philips-EM930007.EMI

Date: 2004-01-07 Time: 14:26:35

Site : No.4 Shielded room
 Condition : FCC CLASS B KNW-407(S/R4-031127) NEUTRAL
 EUT : Flat panel color monitor M/N:300WN5
 POWER : 120Vac / 60Hz(22°C / 65%)
 MEMO : 1280*768 / 60Hz;48KHz(D-SUB) (LPL:735)

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.152	50.60	-15.29	65.89	50.27	0.30	0.03	QP
2	0.193	38.70	-25.21	63.91	38.44	0.21	0.05	QP
3	0.554	30.46	-25.54	56.00	30.33	0.10	0.03	QP
4	1.106	31.51	-24.49	56.00	31.35	0.10	0.06	QP
5	2.212	30.52	-25.48	56.00	30.34	0.10	0.08	QP
6	5.499	23.57	-36.43	60.00	23.36	0.13	0.08	QP

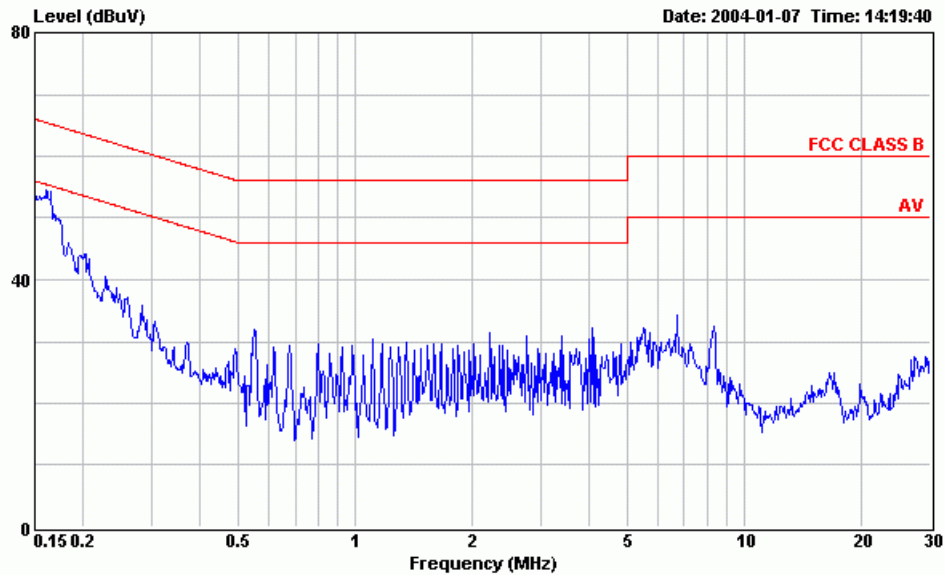
Data#: 6 File#: C:\Philips-EM930007.EMI

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.152	40.18	-15.71	55.89	39.85	0.30	0.03	Average
2	0.193	29.11	-24.80	53.91	28.85	0.21	0.05	Average
3	0.554	27.50	-18.50	46.00	27.37	0.10	0.03	Average
4	1.106	29.48	-16.52	46.00	29.32	0.10	0.06	Average
5	2.212	25.01	-20.99	46.00	24.83	0.10	0.08	Average
6	5.499	14.63	-35.37	50.00	14.42	0.13	0.08	Average



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Data#: 1 File#: C:\Philips-EM930007.EMI



Site : No.4 Shielded room
Condition : FCC CLASS B KNW-407(S/R4-031127) LINE
EUT : Flat panel color monitor M/N:300WN5
POWER : 120Vac / 60Hz(22°C / 65%)
MEMO : 1280*768 / 60Hz;48KHz(D-SUB) (LPL:735)

Data#: 2 File#: C:\Philips-EM930007.EMI

Date: 2004-01-07 Time: 14:23:35

Site : No.4 Shielded room
Condition : FCC CLASS B KNW-407(S/R4-031127) LINE
EUT : Flat panel color monitor M/N:300WN5
POWER : 120Vac / 60Hz(22°C / 65%)
MEMO : 1280*768 / 60Hz;48KHz(D-SUB) (LPL:735)

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.153	50.55	-15.31	65.86	50.23	0.29	0.03	QP
2	0.195	37.76	-26.07	63.83	37.50	0.21	0.05	QP
3	0.551	30.91	-25.09	56.00	30.78	0.10	0.03	QP
4	1.107	29.75	-26.25	56.00	29.59	0.10	0.06	QP
5	2.214	29.68	-26.32	56.00	29.50	0.10	0.08	QP
6	5.505	27.71	-32.29	60.00	27.50	0.13	0.08	QP

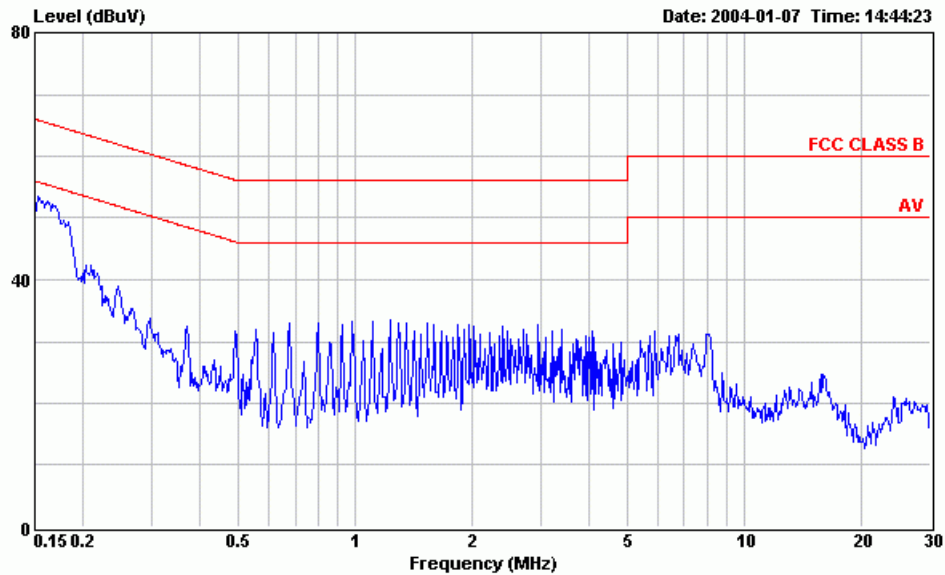
Data#: 3 File#: C:\Philips-EM930007.EMI

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.153	40.18	-15.68	55.86	39.86	0.29	0.03	Average
2	0.195	27.70	-26.13	53.83	27.44	0.21	0.05	Average
3	0.551	28.72	-17.28	46.00	28.59	0.10	0.03	Average
4	1.107	27.25	-18.75	46.00	27.09	0.10	0.06	Average
5	2.214	24.06	-21.94	46.00	23.88	0.10	0.08	Average
6	5.505	18.41	-31.59	50.00	18.20	0.13	0.08	Average



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Data#: 19 File#: C:\Philips-EM930007.EMI



Site : No.4 Shielded room
 Condition : FCC CLASS B KNW-407(S/R4-031127) NEUTRAL
 EUT : Flat panel color monitor M/N:300WN5
 POWER : 120Vac / 60Hz(22°C / 65%)
 MEMO : 640*480 / 60Hz;31KHz(DVI) (LPL:735)

Data#: 20 File#: C:\Philips-EM930007.EMI

Date: 2004-01-07 Time: 14:44:28

Site : No.4 Shielded room
 Condition : FCC CLASS B KNW-407(S/R4-031127) NEUTRAL
 EUT : Flat panel color monitor M/N:300WN5
 POWER : 120Vac / 60Hz(22°C / 65%)
 MEMO : 640*480 / 60Hz;31KHz(DVI) (LPL:735)

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.152	49.52	-16.37	65.89	49.19	0.30	0.03	QP
2	0.198	37.07	-26.63	63.70	36.82	0.20	0.05	QP
3	0.554	30.74	-25.26	56.00	30.61	0.10	0.03	QP
4	1.106	31.81	-24.19	56.00	31.65	0.10	0.06	QP
5	2.215	30.94	-25.06	56.00	30.76	0.10	0.08	QP
6	5.498	23.65	-36.35	60.00	23.44	0.13	0.08	QP

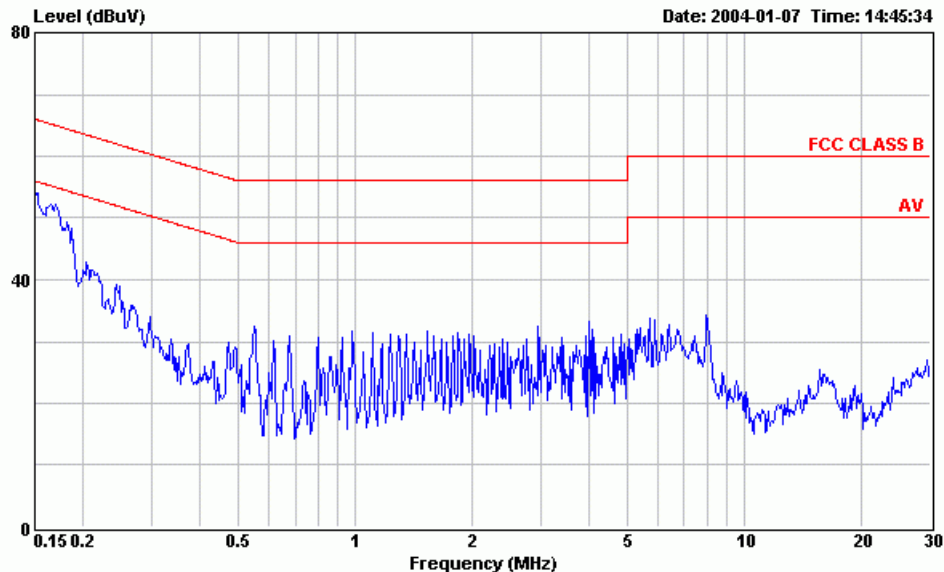
Data#: 21 File#: C:\Philips-EM930007.EMI

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.152	36.67	-19.22	55.89	36.34	0.30	0.03	Average
2	0.198	26.38	-27.32	53.70	26.13	0.20	0.05	Average
3	0.554	28.27	-17.73	46.00	28.14	0.10	0.03	Average
4	1.106	29.50	-16.50	46.00	29.34	0.10	0.06	Average
5	2.215	26.66	-19.34	46.00	26.48	0.10	0.08	Average
6	5.498	16.02	-33.98	50.00	15.81	0.13	0.08	Average



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Data#: 22 File#: C:\Philips-EM930007.EMI



Site : No.4 Shielded room
Condition : FCC CLASS B KNW-407(S/R4-031127) LINE
EUT : Flat panel color monitor M/N:300WN5
POWER : 120Vac / 60Hz(22°C / 65%)
MEMO : 640*480 / 60Hz;31KHz(DVI) (LPL:735)

Data#: 23 File#: C:\Philips-EM930007.EMI

Date: 2004-01-07 Time: 14:54:12

Site : No.4 Shielded room
Condition : FCC CLASS B KNW-407(S/R4-031127) LINE
EUT : Flat panel color monitor M/N:300WN5
POWER : 120Vac / 60Hz(22°C / 65%)
MEMO : 640*480 / 60Hz;31KHz(DVI) (LPL:735)

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.152	49.18	-16.71	65.89	48.85	0.30	0.03	QP
2	0.199	36.38	-27.29	63.67	36.13	0.20	0.05	QP
3	0.551	30.93	-25.07	56.00	30.80	0.10	0.03	QP
4	1.106	30.62	-25.38	56.00	30.46	0.10	0.06	QP
5	2.214	28.97	-27.03	56.00	28.79	0.10	0.08	QP
6	5.498	27.61	-32.39	60.00	27.40	0.13	0.08	QP

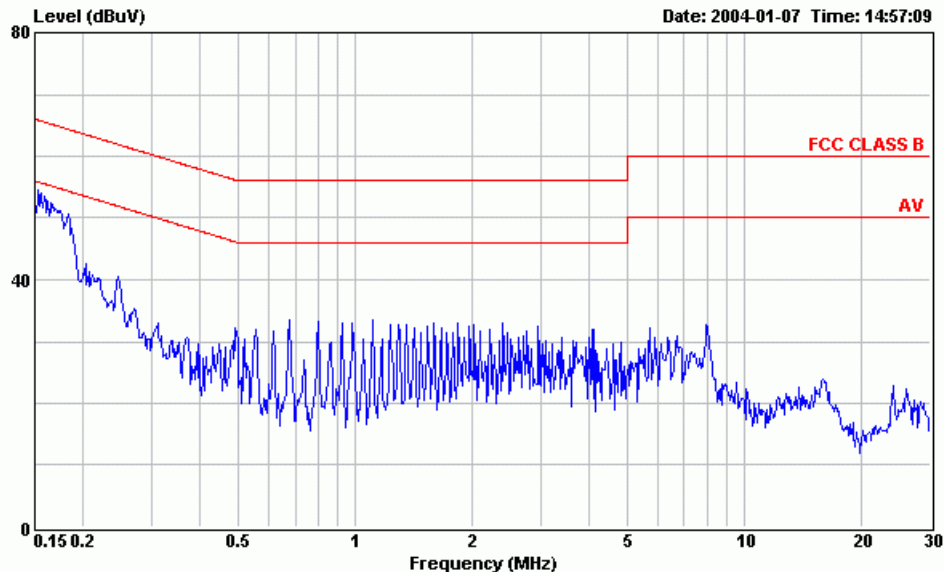
Data#: 24 File#: C:\Philips-EM930007.EMI

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.152	35.35	-20.54	55.89	35.02	0.30	0.03	Average
2	0.199	25.13	-28.54	53.67	24.88	0.20	0.05	Average
3	0.551	29.06	-16.94	46.00	28.93	0.10	0.03	Average
4	1.106	27.73	-18.27	46.00	27.57	0.10	0.06	Average
5	2.214	24.08	-21.92	46.00	23.90	0.10	0.08	Average
6	5.498	20.48	-29.52	50.00	20.27	0.13	0.08	Average



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Data#: 28 File#: C:\Philips-EM930007.EMI



Site : No.4 Shielded room
Condition : FCC CLASS B KNW-407(S/R4-031127) NEUTRAL
EUT : Flat panel color monitor M/N:300WN5
POWER : 120Vac / 60Hz(22°C / 65%)
MEMO : 1024*768 / 60Hz;48KHz(DVI) (LPL:735)

Data#: 29 File#: C:\Philips-EM930007.EMI

Date: 2004-01-07 Time: 14:57:43

Site : No.4 Shielded room
Condition : FCC CLASS B KNW-407(S/R4-031127) NEUTRAL
EUT : Flat panel color monitor M/N:300WN5
POWER : 120Vac / 60Hz(22°C / 65%)
MEMO : 1024*768 / 60Hz;48KHz(DVI) (LPL:735)

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.151	49.90	-16.04	65.94	49.57	0.30	0.03	QP
2	0.202	37.95	-25.56	63.51	37.70	0.20	0.05	QP
3	0.553	30.86	-25.14	56.00	30.73	0.10	0.03	QP
4	1.108	32.39	-23.61	56.00	32.23	0.10	0.06	QP
5	2.216	30.88	-25.12	56.00	30.70	0.10	0.08	QP
6	5.502	24.16	-35.84	60.00	23.95	0.13	0.08	QP

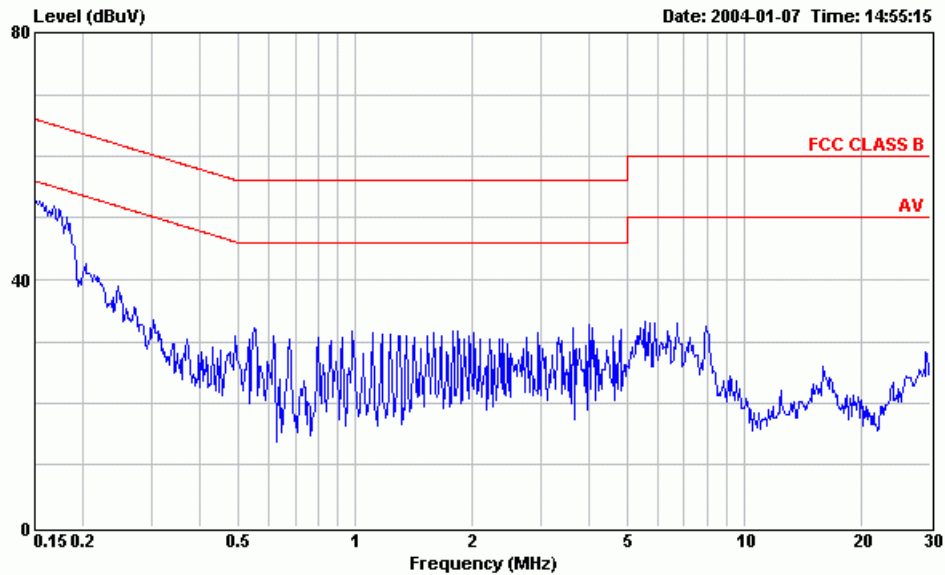
Data#: 30 File#: C:\Philips-EM930007.EMI

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.151	37.70	-18.24	55.94	37.37	0.30	0.03	Average
2	0.202	29.33	-24.18	53.51	29.08	0.20	0.05	Average
3	0.553	28.39	-17.61	46.00	28.26	0.10	0.03	Average
4	1.108	30.17	-15.83	46.00	30.01	0.10	0.06	Average
5	2.216	26.56	-19.44	46.00	26.38	0.10	0.08	Average
6	5.502	16.70	-33.30	50.00	16.49	0.13	0.08	Average



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Data#: 25 File#: C:\Philips-EM930007.EMI



Site : No.4 Shielded room
Condition : FCC CLASS B KNW-407(S/R4-031127) LINE
EUT : Flat panel color monitor M/N:300WN5
POWER : 120Vac / 60Hz(22°C / 65%)
MEMO : 1024*768 / 60Hz;48KHz(DVI) (LPL:735)

Data#: 26 File#: C:\Philips-EM930007.EMI

Date: 2004-01-07 Time: 14:56:10

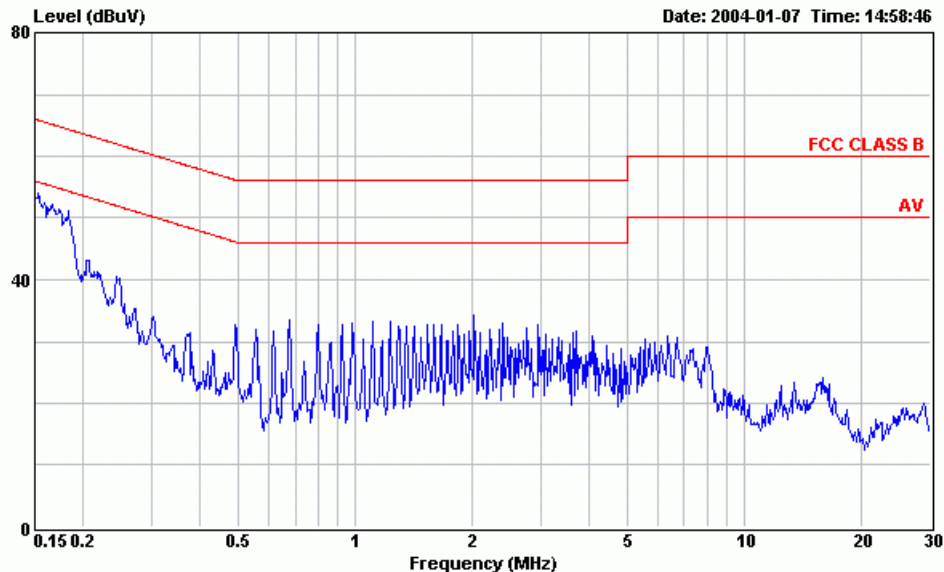
Site : No.4 Shielded room
Condition : FCC CLASS B KNW-407(S/R4-031127) LINE
EUT : Flat panel color monitor M/N:300WN5
POWER : 120Vac / 60Hz(22°C / 65%)
MEMO : 1024*768 / 60Hz;48KHz(DVI) (LPL:735)

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.152	49.08	-16.81	65.89	48.75	0.30	0.03	QP
2	0.202	37.81	-25.70	63.51	37.56	0.20	0.05	QP
3	0.548	30.65	-25.35	56.00	30.51	0.10	0.04	QP
4	1.105	29.08	-26.92	56.00	28.92	0.10	0.06	QP
5	2.214	28.93	-27.07	56.00	28.75	0.10	0.08	QP
6	5.497	27.53	-32.47	60.00	27.32	0.13	0.08	QP

Data#: 27 File#: C:\Philips-EM930007.EMI

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.152	35.65	-20.24	55.89	35.32	0.30	0.03	Average
2	0.202	29.68	-23.83	53.51	29.43	0.20	0.05	Average
3	0.548	28.42	-17.58	46.00	28.28	0.10	0.04	Average
4	1.105	26.31	-19.69	46.00	26.15	0.10	0.06	Average
5	2.214	23.92	-22.08	46.00	23.74	0.10	0.08	Average
6	5.497	19.24	-30.76	50.00	19.03	0.13	0.08	Average

Data#: 31 File#: C:\Philips-EM930007.EMI



Site : No.4 Shielded room
 Condition : FCC CLASS B KNW-407(S/R4-031127) NEUTRAL
 EUT : Flat panel color monitor M/N:300WN5
 POWER : 120Vac / 60Hz(22°C / 65%)
 MEMO : 1280*768 / 60Hz;48KHz(DVI) (LPL:735)

Data#: 32 File#: C:\Philips-EM930007.EMI

Date: 2004-01-07 Time: 15:00:13

Site : No.4 Shielded room
 Condition : FCC CLASS B KNW-407(S/R4-031127) NEUTRAL
 EUT : Flat panel color monitor M/N:300WN5
 POWER : 120Vac / 60Hz(22°C / 65%)
 MEMO : 1280*768 / 60Hz;48KHz(DVI) (LPL:735)

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.151	49.52	-16.42	65.94	49.19	0.30	0.03	QP
2	0.205	38.27	-25.15	63.42	38.02	0.20	0.05	QP
3	0.556	30.36	-25.64	56.00	30.23	0.10	0.03	QP
4	1.108	32.49	-23.51	56.00	32.33	0.10	0.06	QP
5	2.216	30.76	-25.24	56.00	30.58	0.10	0.08	QP
6	5.481	28.51	-31.49	60.00	28.30	0.13	0.08	QP

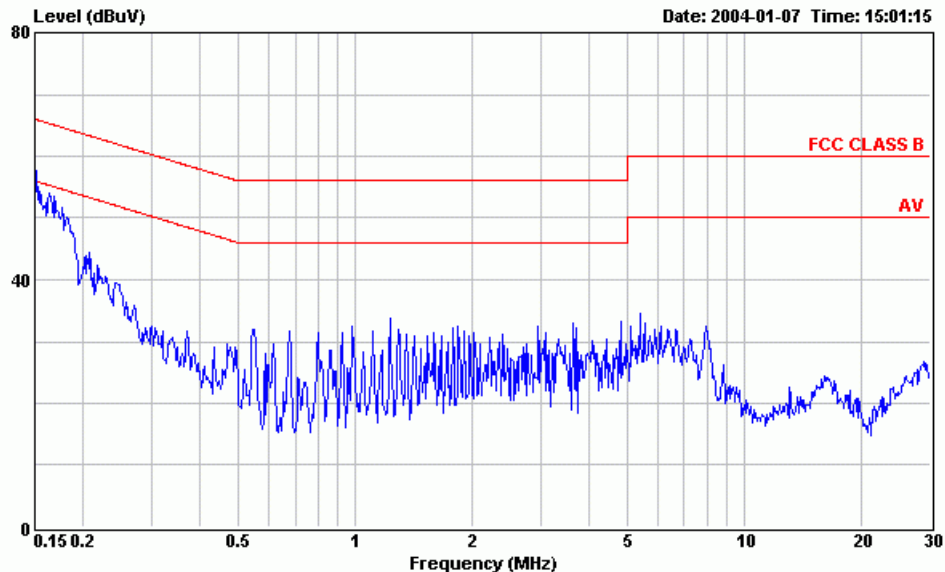
Data#: 33 File#: C:\Philips-EM930007.EMI

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.151	37.25	-18.69	55.94	36.92	0.30	0.03	Average
2	0.205	30.78	-22.64	53.42	30.53	0.20	0.05	Average
3	0.556	28.09	-17.91	46.00	27.96	0.10	0.03	Average
4	1.108	30.66	-15.34	46.00	30.50	0.10	0.06	Average
5	2.216	26.36	-19.64	46.00	26.18	0.10	0.08	Average
6	5.481	24.17	-25.83	50.00	23.96	0.13	0.08	Average



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Data#: 34 File#: C:\Philips-EM930007.EMI



Site : No.4 Shielded room
Condition : FCC CLASS B KNW-407(S/R4-031127) LINE
EUT : Flat panel color monitor M/N:300WN5
POWER : 120Vac / 60Hz(22°C / 65%)
MEMO : 1280*768 / 60Hz;48KHz(DVI) (LPL:735)

Data#: 35 File#: C:\Philips-EM930007.EMI

Date: 2004-01-07 Time: 15:01:47

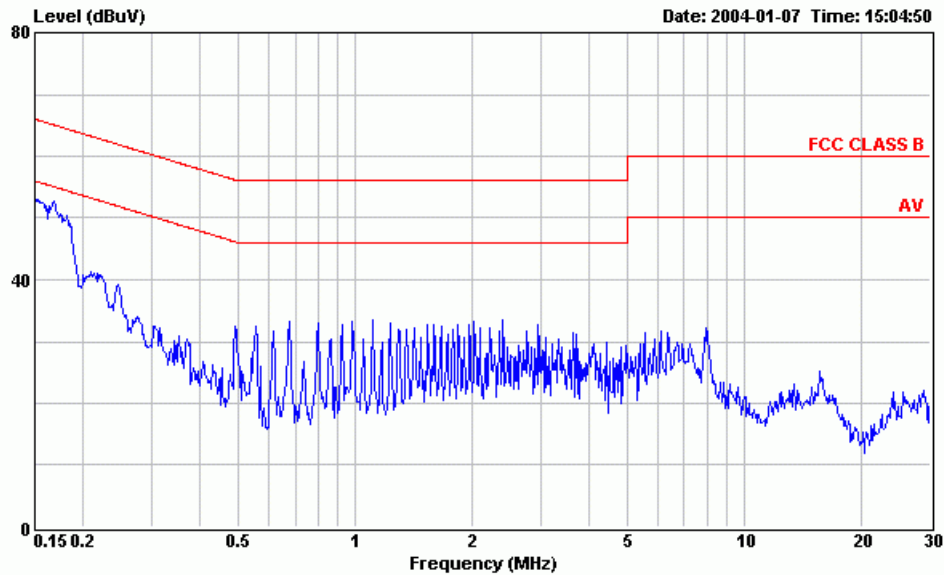
Site : No.4 Shielded room
Condition : FCC CLASS B KNW-407(S/R4-031127) LINE
EUT : Flat panel color monitor M/N:300WN5
POWER : 120Vac / 60Hz(22°C / 65%)
MEMO : 1280*768 / 60Hz;48KHz(DVI) (LPL:735)

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.151	49.74	-16.20	65.94	49.41	0.30	0.03	QP
2	0.203	40.81	-22.66	63.47	40.56	0.20	0.05	QP
3	0.548	30.75	-25.25	56.00	30.61	0.10	0.04	QP
4	1.108	30.78	-25.22	56.00	30.62	0.10	0.06	QP
5	2.218	28.85	-27.15	56.00	28.67	0.10	0.08	QP
6	5.480	30.99	-29.01	60.00	30.78	0.13	0.08	QP

Data#: 36 File#: C:\Philips-EM930007.EMI

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.151	41.78	-14.16	55.94	41.45	0.30	0.03	Average
2	0.203	34.51	-18.96	53.47	34.26	0.20	0.05	Average
3	0.548	28.33	-17.67	46.00	28.19	0.10	0.04	Average
4	1.108	28.98	-17.02	46.00	28.82	0.10	0.06	Average
5	2.218	24.81	-21.19	46.00	24.63	0.10	0.08	Average
6	5.480	25.85	-24.15	50.00	25.64	0.13	0.08	Average

Data#: 40 File#: C:\Philips-EM930007.EMI



Site : No.4 Shielded room
 Condition : FCC CLASS B KNW-407(S/R4-031127) NEUTRAL
 EUT : Flat panel color monitor M/N:300WN5
 POWER : 120Vac / 60Hz(22°C / 65%)
 MEMO : PIP(LPL:735)

Data#: 41 File#: C:\Philips-EM930007.EMI

Date: 2004-01-07 Time: 15:05:27

Site : No.4 Shielded room
 Condition : FCC CLASS B KNW-407(S/R4-031127) NEUTRAL
 EUT : Flat panel color monitor M/N:300WN5
 POWER : 120Vac / 60Hz(22°C / 65%)
 MEMO : PIP(LPL:735)

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.151	49.44	-16.50	65.94	49.11	0.30	0.03	QP
2	0.203	37.91	-25.57	63.48	37.66	0.20	0.05	QP
3	0.554	31.23	-24.77	56.00	31.10	0.10	0.03	QP
4	1.110	31.83	-24.17	56.00	31.67	0.10	0.06	QP
5	2.218	30.76	-25.24	56.00	30.58	0.10	0.08	QP
6	5.481	28.55	-31.45	60.00	28.34	0.13	0.08	QP

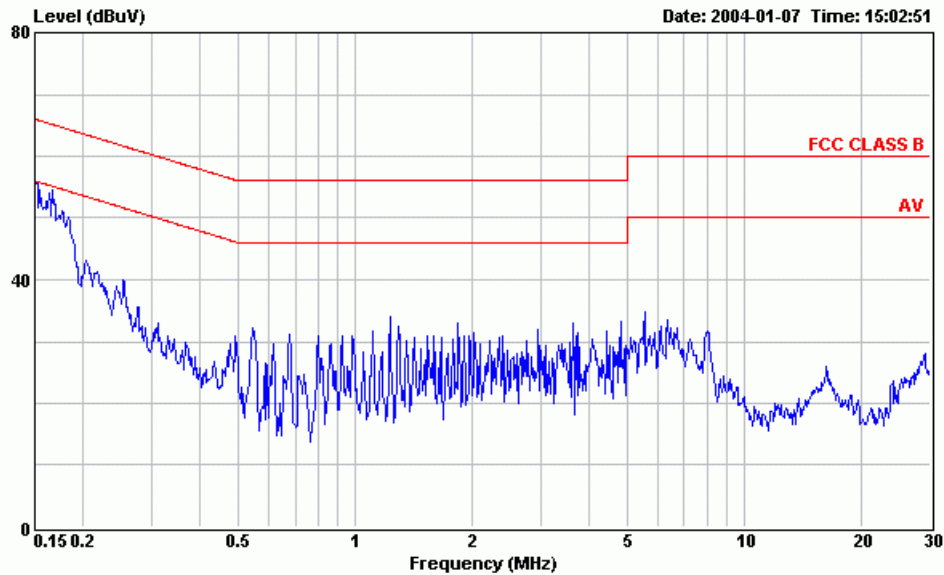
Data#: 42 File#: C:\Philips-EM930007.EMI

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.151	35.59	-20.35	55.94	35.26	0.30	0.03	Average
2	0.203	29.72	-23.76	53.48	29.47	0.20	0.05	Average
3	0.554	28.62	-17.38	46.00	28.49	0.10	0.03	Average
4	1.110	30.14	-15.86	46.00	29.98	0.10	0.06	Average
5	2.218	26.44	-19.56	46.00	26.26	0.10	0.08	Average
6	5.481	24.48	-25.52	50.00	24.27	0.13	0.08	Average



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Data#: 37 File#: C:\Philips-EM930007.EMI



Site : No.4 Shielded room
Condition : FCC CLASS B KNW-407(S/R4-031127) LINE
EUT : Flat panel color monitor M/N:300WN5
POWER : 120Vac / 60Hz(22°C / 65%)
MEMO : PIP(LPL:735)

Data#: 38 File#: C:\Philips-EM930007.EMI

Date: 2004-01-07 Time: 15:03:52

Site : No.4 Shielded room
Condition : FCC CLASS B KNW-407(S/R4-031127) LINE
EUT : Flat panel color monitor M/N:300WN5
POWER : 120Vac / 60Hz(22°C / 65%)
MEMO : PIP(LPL:735)

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.151	49.78	-16.16	65.94	49.45	0.30	0.03	QP
2	0.202	39.78	-23.74	63.52	39.53	0.20	0.05	QP
3	0.548	30.75	-25.25	56.00	30.61	0.10	0.04	QP
4	1.108	30.82	-25.18	56.00	30.66	0.10	0.06	QP
5	2.218	28.77	-27.23	56.00	28.59	0.10	0.08	QP
6	5.480	30.84	-29.16	60.00	30.63	0.13	0.08	QP

Data#: 39 File#: C:\Philips-EM930007.EMI

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.151	41.59	-14.35	55.94	41.26	0.30	0.03	Average
2	0.202	33.23	-20.29	53.52	32.98	0.20	0.05	Average
3	0.548	28.69	-17.31	46.00	28.55	0.10	0.04	Average
4	1.108	28.95	-17.05	46.00	28.79	0.10	0.06	Average
5	2.218	24.93	-21.07	46.00	24.75	0.10	0.08	Average
6	5.480	26.11	-23.89	50.00	25.90	0.13	0.08	Average

3. RADIATED DISTURBANCE MEASUREMENT

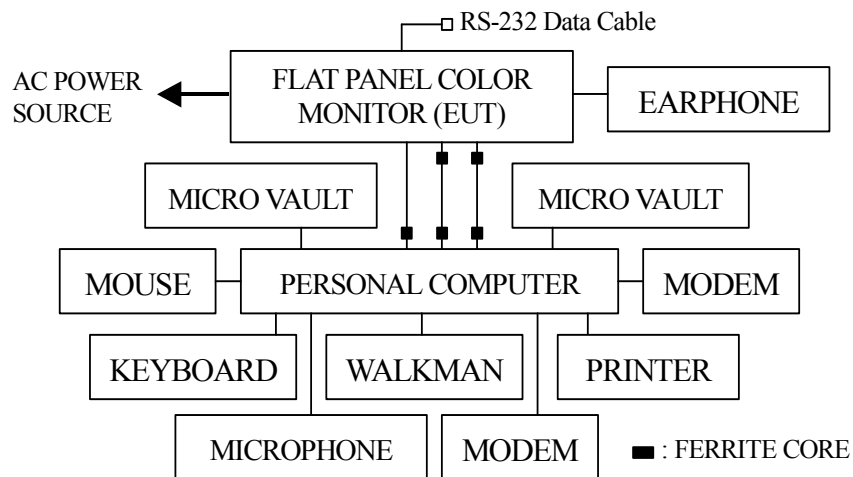
3.1. Test Equipment

The following test equipments are used during the radiated emission tests :

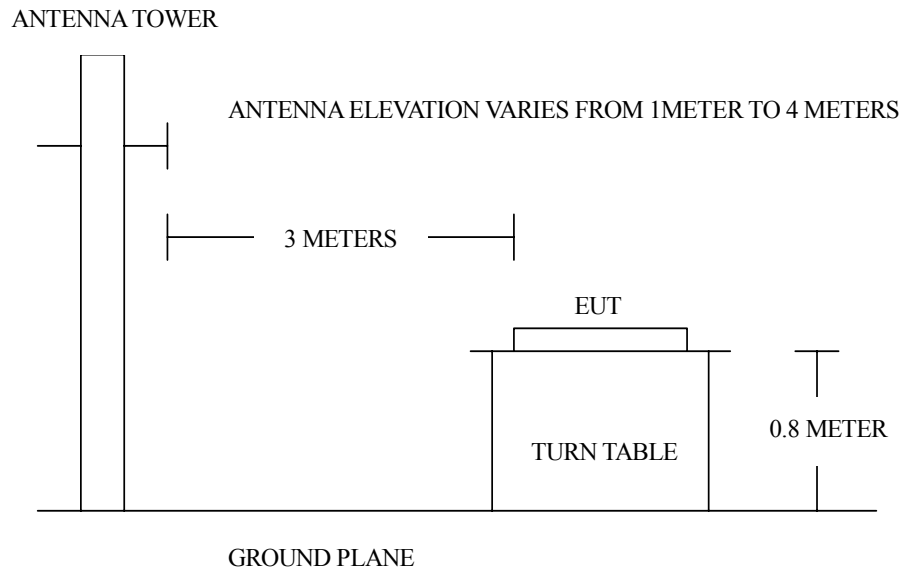
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	HP	8590L	3624A01446	N/A	N/A
2.	Test Receiver	Rohde & Schwarz	ESVS10	845165/018	May 16, 03'	May 15, 04'
3.	Broadband Antenna	Chase	VBA6106A	1263	Nov.24, 03'	Nov.23, 04'
4.	Log Periodic Antenna	Chase	UPA6109	1020	Nov.24, 03'	Nov.23, 04'

3.2. Block Diagram of Test Setup

3.2.1. Block Diagram of connection between EUT and simulators



3.2.2. Open Field Test Site Setup Diagram



3.3. Radiated Emission Limits (Class B)

All emanations from a class B computing devices or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified below:

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMITS	
		$\mu\text{V/m}$	$\text{dB}\mu\text{V/m}$
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
Above 960	3	500	54.0

- Remark :
- (1) Emission level ($\text{dB}\mu\text{V/m}$) = $20 \log$ Emission level ($\mu\text{V/m}$)
 - (2) The tighter limit applies at the edge between two frequency bands.
 - (3) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

3.4. EUT's Configuration during Compliance Measurement

The configuration of EUT and its simulators were the same as those used in conducted measurement. Please refer to 2.4.

3.5. Operating Condition of EUT

Same as conducted measurement which was listed in 2.5. except the test set up replaced by section 3.2.

3.6. Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated biconical and log periodical antenna) and dipole antenna are used as receiving antenna. Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.4-2001 on radiated measurement.

The bandwidth of the R&S Test Receiver ESVS10 was set at 120kHz.

The frequency range from 30MHz to 1000MHz was checked.

The EUT with following test modes and with AC 120V/60Hz supplying voltage were performed during radiated testing and all the test results are listed in next section.

(※ mode for maximum detected emission)

No.	Display	Frequency / Resolution.	Data Cable
1.	VGA IN (H Pattern)	640*480/60Hz, 31kHz	D-Sub
2.		1024*768/60Hz, 48kHz	
3.		1280*768/60Hz, 48kHz	
4.	VGA IN (H Pattern)	640*480/60Hz, 31kHz	DVI
5.		1024*768/60Hz, 48kHz	
6.		1280*768/60Hz, 48kHz	
※ 7.	PIP	1280*768/60Hz, 48kHz	D-Sub

3.7. Radiated Emission Measurement Results

PASSED. All emissions not reported below are too low against the prescribed limits.

Date of Test : Jan. 12, 2004 Temperature : 16°C
 EUT : Flat Panel Color Monitor Humidity : 70%
 Display : Generally (640*480/60Hz, 31kHz) Data Cable : D-Sub

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading		Emission Level		Margin dB
			Horizontal dB μ V	Horizontal dB μ V/m	Limits dB μ V/m		
35.518	22.38	0.85	1.00	24.23	40.00		15.77
71.038	12.66	1.28	9.31	23.25	40.00		16.75
142.081	20.39	1.76	7.91	30.06	43.50		13.44
160.069	20.54	1.89	8.90	31.33	43.50		12.17
177.600	21.64	2.07	7.10	30.81	43.50		12.69
198.637	21.97	2.17	10.81	34.95	43.50		8.55
213.120	22.32	2.29	2.20	26.81	43.50		16.69
248.641	24.37	2.47	6.29	33.13	46.00		12.87
390.711	16.88	3.31	10.06	30.25	46.00		15.75
461.752	17.52	3.54	10.67	31.73	46.00		14.27
480.207	17.71	3.62	14.80	36.13	46.00		9.87
497.280	17.63	3.89	18.70	40.22	46.00		5.78
532.793	18.42	4.03	9.48	31.93	46.00		14.07
674.875	21.30	4.85	8.25	34.40	46.00		11.60
710.396	20.75	4.84	7.05	32.64	46.00		13.36
800.346	21.90	5.30	9.40	36.60	46.00		9.40
994.560	24.92	6.72	9.90	41.54	54.00		12.46

Remark : 1. All reading are Quasi-Peak values.
 2. Emission Level= Antenna Factor + Cable Loss + Meter Reading.

Date of Test : Jan. 12, 2004 Temperature : 16°C
 EUT : Flat Panel Color Monitor Humidity : 70%
 Display : VGA IN (640*480/60Hz, 31kHz) Data Cable : D-Sub

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading		Emission Level	
			Vertical dBμV	Vertical dBμV/m	Limits dBμV/m	Margin dB
35.518	21.41	0.85	4.70	26.96	40.00	13.04
67.160	11.83	1.21	11.70	24.74	40.00	15.26
71.040	12.26	1.28	9.80	23.34	40.00	16.66
122.910	17.79	1.66	5.99	25.44	43.50	18.06
142.081	19.35	1.76	5.61	26.72	43.50	16.78
160.069	19.36	1.89	6.60	27.85	43.50	15.65
177.601	20.32	2.07	5.80	28.19	43.50	15.31
213.122	22.34	2.29	3.10	27.73	43.50	15.77
248.642	24.77	2.47	7.10	34.34	46.00	11.66
355.199	15.17	3.07	6.10	24.34	46.00	21.66
426.240	15.99	3.54	7.09	26.62	46.00	19.38
480.207	18.24	3.62	13.70	35.56	46.00	10.44
497.280	17.91	3.89	20.80	42.60	46.00	3.40
532.802	18.93	4.03	8.40	31.36	46.00	14.64
640.275	19.71	4.65	7.40	31.76	46.00	14.24
674.884	20.83	4.85	5.11	30.79	46.00	15.21
710.402	20.32	4.89	6.70	31.91	46.00	14.09
800.345	22.13	5.30	12.50	39.93	46.00	6.07
994.561	24.02	6.72	13.80	44.54	54.00	9.46

Remark : 1. All reading are Quasi-Peak values.
 2. Emission Level= Antenna Factor + Cable Loss + Meter Reading.

Date of Test : Jan. 12, 2004 Temperature : 16°C
 EUT : Flat Panel Color Monitor Humidity : 70%
 Display : VGA IN (1024*768/60Hz, 48kHz) Data Cable : D-Sub

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading		Emission Level	
			Horizontal dB μ V	Horizontal dB μ V/m	Limits dB μ V/m	Margin dB
67.296	12.26	1.21	15.91	29.38	40.00	10.62
134.592	20.19	1.74	6.40	28.33	43.50	15.17
160.069	20.54	1.89	9.10	31.53	43.50	11.97
168.239	20.89	1.93	8.30	31.12	43.50	12.38
201.887	22.07	2.24	3.30	27.61	43.50	15.89
269.183	24.40	2.56	9.10	36.06	46.00	9.94
336.477	14.63	3.02	5.30	22.95	46.00	23.05
471.068	18.23	3.77	16.01	38.01	46.00	7.99
538.363	17.82	3.99	4.40	26.21	46.00	19.79
640.276	20.02	4.65	7.60	32.27	46.00	13.73
672.954	20.80	4.75	8.61	34.16	46.00	11.84
740.249	21.80	5.09	9.10	35.99	46.00	10.01
800.345	21.90	5.30	8.90	36.10	46.00	9.90
942.135	24.97	6.24	11.40	42.61	46.00	3.39

Remark : 1. All reading are Quasi-Peak values.
 2. Emission Level= Antenna Factor + Cable Loss + Meter Reading.

Date of Test : Jan. 12, 2004 Temperature : 16°C
 EUT : Flat Panel Color Monitor Humidity : 70%
 Display : VGA IN (1024*768/60Hz, 48kHz) Data Cable : D-Sub

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading		Emission Level	
			Vertical dBμV	Vertical dBμV/m	Limits dBμV/m	Margin dB
65.630	12.42	1.22	12.60	26.24	40.00	13.76
116.390	17.36	1.59	7.10	26.05	43.50	17.45
134.592	18.62	1.74	4.10	24.46	43.50	19.04
160.071	19.36	1.89	6.80	28.05	43.50	15.45
168.241	20.10	1.93	6.20	28.23	43.50	15.27
198.646	22.89	2.17	8.10	33.16	43.50	10.34
201.887	22.38	2.24	1.30	25.92	43.50	17.58
269.189	24.09	2.56	9.10	35.75	46.00	10.25
403.773	16.35	3.33	10.30	29.98	46.00	16.02
471.069	18.58	3.77	19.71	42.06	46.00	3.94
480.207	18.24	3.62	12.90	34.76	46.00	11.24
538.364	18.64	3.99	6.29	28.92	46.00	17.08
640.276	19.71	4.65	10.50	34.86	46.00	11.14
672.955	20.22	4.75	10.11	35.08	46.00	10.92
740.250	21.80	5.09	5.90	32.79	46.00	13.21
800.345	22.13	5.30	12.90	40.33	46.00	5.67
942.137	25.79	6.24	8.80	40.83	46.00	5.17
960.414	26.17	6.39	5.30	37.86	54.00	16.14

Remark : 1. All reading are Quasi-Peak values.
 2. Emission Level= Antenna Factor + Cable Loss + Meter Reading.

Date of Test : Jan. 12, 2004 Temperature : 16°C
 EUT : Flat Panel Color Monitor Humidity : 70%
 Display : VGA IN (1280*768/60Hz, 48kHz) Data Cable : D-Sub

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading		Emission Level	
			Horizontal dBμV	Horizontal dBμV/m	Limits dBμV/m	Margin dB
67.297	12.26	1.21	10.01	23.48	40.00	16.52
132.540	20.03	1.73	6.60	28.36	43.50	15.14
134.593	20.19	1.74	4.60	26.53	43.50	16.97
144.025	20.19	1.79	5.10	27.08	43.50	16.42
160.069	20.54	1.89	7.90	30.33	43.50	13.17
168.240	20.89	1.93	4.80	27.62	43.50	15.88
201.888	22.07	2.24	1.10	25.41	43.50	18.09
269.184	24.40	2.56	6.10	33.06	46.00	12.94
471.068	18.23	3.77	16.31	38.31	46.00	7.69
538.363	17.82	3.99	4.50	26.31	46.00	19.69
640.274	20.02	4.65	7.10	31.77	46.00	14.23
672.954	20.80	4.75	7.31	32.86	46.00	13.14
740.249	21.80	5.09	4.90	31.79	46.00	14.21
800.343	21.90	5.30	8.70	35.90	46.00	10.10
942.134	24.97	6.24	10.80	42.01	46.00	3.99
960.413	25.60	6.39	3.71	35.70	54.00	18.30

Remark : 1. All reading are Quasi-Peak values.
 2. Emission Level= Antenna Factor + Cable Loss + Meter Reading.

Date of Test : Jan. 10, 2004 Temperature : 24°C
 EUT : Flat Panel Color Monitor Humidity : 60%
 Display : VGA IN (1280*768/60Hz, 48kHz) Data Cable : D-Sub

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading		Emission Level	
			Vertical dBμV	Vertical dBμV/m	Limits dBμV/m	Margin dB
50.357	16.05	1.05	10.30	27.40	40.00	12.60
66.350	12.09	1.20	11.90	25.19	40.00	14.81
115.150	17.36	1.61	3.90	22.87	43.50	20.63
134.593	18.62	1.74	3.80	24.16	43.50	19.34
144.026	19.71	1.79	7.50	29.00	43.50	14.50
160.069	19.36	1.89	7.20	28.45	43.50	15.05
168.370	20.16	1.97	8.40	30.53	43.50	12.97
199.884	22.64	2.17	4.90	29.71	43.50	13.79
240.045	24.26	2.48	3.50	30.24	46.00	15.76
269.186	24.09	2.56	5.10	31.75	46.00	14.25
336.474	14.27	3.02	4.80	22.09	46.00	23.91
400.097	16.40	3.34	6.10	25.84	46.00	20.16
471.065	18.58	3.77	21.21	43.56	46.00	2.44
538.361	18.64	3.99	2.39	25.02	46.00	20.98
640.278	19.71	4.65	10.80	35.16	46.00	10.84
672.952	20.22	4.75	10.11	35.08	46.00	10.92
740.247	21.80	5.09	8.00	34.89	46.00	11.11
800.345	22.13	5.30	10.90	38.33	46.00	7.67
807.542	21.70	5.38	3.11	30.19	46.00	15.81
942.133	25.79	6.24	11.10	43.13	46.00	2.87
960.415	26.17	6.39	3.20	35.76	54.00	18.24

Remark : 1. All reading are Quasi-Peak values.
 2. Emission Level= Antenna Factor + Cable Loss + Meter Reading.

Date of Test : Jan. 09, 2004 Temperature : 24°C
 EUT : Flat Panel Color Monitor Humidity : 53%
 Display : VGA IN (640*480/60Hz, 31kHz) Data Cable : DVI

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading		Emission Level	
			Horizontal dB μ V	Horizontal dB μ V/m	Limits dB μ V/m	Margin dB
71.041	12.66	1.28	5.91	19.85	40.00	20.15
142.082	20.39	1.76	6.51	28.66	43.50	14.84
160.070	20.54	1.89	7.10	29.53	43.50	13.97
177.603	21.64	2.07	7.80	31.51	43.50	11.99
198.620	21.97	2.17	7.21	31.35	43.50	12.15
213.123	22.32	2.29	1.60	26.21	43.50	17.29
248.644	24.37	2.47	6.39	33.23	46.00	12.77
284.164	26.33	2.71	4.29	33.33	46.00	12.67
355.199	15.31	3.07	7.90	26.28	46.00	19.72
497.281	17.63	3.89	11.20	32.72	46.00	13.28
532.802	18.42	4.03	8.29	30.74	46.00	15.26
639.363	20.02	4.65	6.40	31.07	46.00	14.93
710.402	20.62	4.89	7.80	33.31	46.00	12.69
756.016	22.14	5.19	8.10	35.43	46.00	10.57
800.344	21.90	5.30	6.80	34.00	46.00	12.00
994.562	24.92	6.72	7.40	39.04	54.00	14.96

Remark : 1. All reading are Quasi-Peak values.
 2. Emission Level= Antenna Factor + Cable Loss + Meter Reading.

Date of Test : Jan. 10, 2004 Temperature : 24°C
 EUT : Flat Panel Color Monitor Humidity : 63%
 Display : VGA IN (640*480/60Hz, 31kHz) Data Cable : DVI

Frequency MHz	Antenna		Cable		Meter Reading		Emission Level	
	Factor dB/m	Loss dB	Vertical dBμV	Vertical dBμV/m	Limits dBμV/m	Margin dB		
61.026	13.58	1.17	17.01	31.76	40.00	8.24		
71.039	12.26	1.28	10.40	23.94	40.00	16.06		
113.990	17.44	1.60	5.00	24.04	43.50	19.46		
142.079	19.35	1.76	3.41	24.52	43.50	18.98		
160.070	19.36	1.89	6.60	27.85	43.50	15.65		
177.600	20.32	2.07	6.10	28.49	43.50	15.01		
213.121	22.34	2.29	2.20	26.83	43.50	16.67		
248.641	24.77	2.47	5.20	32.44	46.00	13.56		
336.061	14.28	3.00	9.20	26.48	46.00	19.52		
390.724	16.49	3.31	5.30	25.10	46.00	20.90		
461.755	17.70	3.54	4.90	26.14	46.00	19.86		
497.283	17.91	3.89	17.60	39.40	46.00	6.60		
532.805	18.93	4.03	8.90	31.86	46.00	14.14		
639.362	19.72	4.65	9.30	33.67	46.00	12.33		
710.403	20.32	4.89	5.20	30.41	46.00	15.59		
800.343	22.13	5.30	12.30	39.73	46.00	6.27		
994.562	24.02	6.72	14.40	45.14	54.00	8.86		

Remark : 1. All reading are Quasi-Peak values.
 2. Emission Level= Antenna Factor + Cable Loss + Meter Reading.

Date of Test : Jan. 09, 2004 Temperature : 24°C
 EUT : Flat Panel Color Monitor Humidity : 53%
 Display : VGA IN (1024*768/60Hz, 48kHz) Data Cable : DVI

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading		Emission Level	
			Horizontal dB μ V	Horizontal dB μ V/m	Limits dB μ V/m	Margin dB
68.014	12.48	1.23	9.30	23.01	40.00	16.99
129.940	20.25	1.66	6.10	28.01	43.50	15.49
157.788	20.65	1.99	7.90	30.54	43.50	12.96
165.487	20.81	1.98	6.40	29.19	43.50	14.31
170.027	21.15	1.99	9.50	32.64	43.50	10.86
194.912	21.96	2.19	7.10	31.25	43.50	12.25
199.923	22.03	2.17	8.30	32.50	43.50	11.00
212.633	22.33	2.31	3.60	28.24	43.50	15.26
272.054	24.73	2.65	2.30	29.68	46.00	16.32
324.850	13.90	2.94	12.90	29.74	46.00	16.26
389.820	16.38	3.32	8.30	28.00	46.00	18.00
476.078	18.16	3.79	14.20	36.15	46.00	9.85
519.000	18.66	3.92	10.61	33.19	46.00	12.81
649.701	20.30	4.72	18.10	43.12	46.00	2.88
714.671	20.61	5.01	8.60	34.22	46.00	11.78
909.580	23.30	6.00	8.10	37.40	46.00	8.60
952.158	25.55	6.34	8.60	40.49	46.00	5.51
974.551	25.48	6.52	6.20	38.20	54.00	15.80

Remark : 1. All reading are Quasi-Peak values.
 2. Emission Level= Antenna Factor + Cable Loss + Meter Reading.

Date of Test : Jan. 09, 2004 Temperature : 24°C
 EUT : Flat Panel Color Monitor Humidity : 53%
 Display : VGA IN (1024*768/60Hz, 48kHz) Data Cable : DVI

Frequency MHz	Antenna		Cable		Meter Reading		Emission Level	
	Factor dB/m	Loss dB	Vertical dBμV	Vertical dBμV/m	Limits dBμV/m	Margin dB		
50.872	15.90	1.05	10.80	27.75	40.00	12.25		
64.970	12.67	1.21	11.10	24.98	40.00	15.02		
68.014	11.69	1.23	13.10	26.02	40.00	13.98		
114.500	17.40	1.61	6.10	25.11	43.50	18.39		
129.940	18.34	1.66	7.50	27.50	43.50	16.00		
160.070	19.36	1.89	7.60	28.85	43.50	14.65		
170.029	20.35	1.99	6.70	29.04	43.50	14.46		
194.910	22.44	2.19	0.50	25.13	43.50	18.37		
259.880	24.06	2.58	1.11	27.75	46.00	18.25		
324.851	14.62	2.94	12.20	29.76	46.00	16.24		
389.821	16.03	3.32	11.10	30.45	46.00	15.55		
476.079	18.53	3.79	14.50	36.82	46.00	9.18		
519.761	19.01	3.94	9.60	32.55	46.00	13.45		
649.702	19.88	4.72	15.40	40.00	46.00	6.00		
680.101	20.62	4.84	11.10	36.56	46.00	9.44		
779.642	22.33	5.26	6.80	34.39	46.00	11.61		
909.582	23.52	6.00	5.60	35.12	46.00	10.88		
952.155	26.35	6.34	6.00	38.69	46.00	7.31		

Remark : 1. All reading are Quasi-Peak values.
 2. Emission Level= Antenna Factor + Cable Loss + Meter Reading.

Date of Test : Jan. 09, 2004 Temperature : 24°C
 EUT : Flat Panel Color Monitor Humidity : 53%
 Display : VGA IN (1280*768/60Hz, 48kHz) Data Cable : DVI

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading		Emission Level	
			Horizontal dBμV	Horizontal dBμV/m	Limits dBμV/m	Margin dB
69.627	12.70	1.24	5.30	19.24	40.00	20.76
79.651	14.10	1.32	4.10	19.52	40.00	20.48
132.455	20.08	1.73	4.60	26.41	43.50	17.09
160.071	20.54	1.89	7.60	30.03	43.50	13.47
168.241	20.89	1.93	10.10	32.92	43.50	10.58
199.909	22.03	2.17	4.60	28.80	43.50	14.70
204.822	22.40	2.19	5.40	29.99	43.50	13.51
238.955	24.00	2.46	8.10	34.56	46.00	11.44
318.607	13.55	2.87	11.41	27.83	46.00	18.17
398.259	17.08	3.32	11.30	31.70	46.00	14.30
471.068	18.23	3.77	14.61	36.61	46.00	9.39
477.909	18.44	3.86	15.30	37.60	46.00	8.40
557.560	19.18	4.25	7.10	30.53	46.00	15.47
637.212	20.01	4.86	11.80	36.67	46.00	9.33
716.862	20.51	5.04	9.60	35.15	46.00	10.85
796.517	21.80	5.42	16.19	43.41	46.00	2.59
942.134	24.97	6.24	9.10	40.31	46.00	5.69
955.817	25.57	6.41	7.61	39.59	46.00	6.41

Remark : 1. All reading are Quasi-Peak values.
 2. Emission Level= Antenna Factor + Cable Loss + Meter Reading.

Date of Test : Jan. 09, 2004 Temperature : 24°C
 EUT : Flat Panel Color Monitor Humidity : 53%
 Display : VGA IN (1280*768/60Hz, 48kHz) Data Cable : DVI

Frequency MHz	Antenna		Cable		Meter Reading		Emission Level	
	Factor dB/m	Loss dB	Vertical dBμV	Vertical dBμV/m	Limits dBμV/m	Margin dB		
65.780	12.35	1.22	12.70	26.27	40.00	13.73		
79.652	13.68	1.32	7.70	22.70	40.00	17.30		
109.435	17.79	1.58	5.40	24.77	43.50	18.73		
132.455	18.46	1.73	6.20	26.39	43.50	17.11		
160.066	19.36	1.89	7.20	28.45	43.50	15.05		
168.240	20.10	1.93	6.60	28.63	43.50	14.87		
204.815	21.98	2.19	1.10	25.27	43.50	18.23		
269.182	24.09	2.56	6.70	33.35	46.00	12.65		
398.260	16.75	3.32	13.60	33.67	46.00	12.33		
477.911	18.81	3.86	10.10	32.77	46.00	13.23		
538.363	18.64	3.99	9.09	31.72	46.00	14.28		
557.563	20.08	4.25	7.60	31.93	46.00	14.07		
605.659	19.75	4.69	9.80	34.24	46.00	11.76		
637.214	19.83	4.86	11.50	36.19	46.00	9.81		
716.866	20.32	5.04	6.80	32.16	46.00	13.84		
796.515	22.17	5.42	15.59	43.18	46.00	2.82		
942.134	25.79	6.24	8.30	40.33	46.00	5.67		
955.818	26.29	6.41	5.60	38.30	46.00	7.70		

Remark : 1. All reading are Quasi-Peak values.
 2. Emission Level= Antenna Factor + Cable Loss + Meter Reading.

Date of Test : Jan. 12, 2004 Temperature : 16°C
 EUT : Flat Panel Color Monitor Humidity : 70%
 Display : PIP (1280*768/60Hz, 48kHz) Data Cable : D-Sub

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading		Emission Level	
			Horizontal dBμV	Horizontal dBμV/m	Limits dBμV/m	Margin dB
67.297	12.26	1.21	11.91	25.38	40.00	14.62
134.592	20.19	1.74	5.20	27.13	43.50	16.37
160.070	20.54	1.89	8.30	30.73	43.50	12.77
168.238	20.89	1.93	7.40	30.22	43.50	13.28
198.598	21.97	2.17	6.91	31.05	43.50	12.45
201.887	22.07	2.24	1.60	25.91	43.50	17.59
269.181	24.40	2.56	7.80	34.76	46.00	11.24
336.477	14.63	3.02	6.10	23.75	46.00	22.25
471.068	18.23	3.77	16.41	38.41	46.00	7.59
538.363	17.82	3.99	5.50	27.31	46.00	18.69
640.278	20.02	4.65	7.80	32.47	46.00	13.53
740.247	21.80	5.09	5.30	32.19	46.00	13.81
800.346	21.90	5.30	7.40	34.60	46.00	11.40
* 942.133	24.97	6.24	12.50	43.71	46.00	2.29

- Remark :
1. All reading are Quasi-Peak values.
 2. Emission Level= Antenna Factor + Cable Loss + Meter Reading.
 3. The worst emission was detected at 942.133MHz with corrected signal level of 43.71dBμV/m (limit was 46dBμV/m) when the antenna was at horizontal polarization and was at 1.2m high and the turn table was at 160°.
 4. 0° is the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.

Date of Test : Jan. 12, 2004 Temperature : 16°C
 EUT : Flat Panel Color Monitor Humidity : 70%
 Display : PIP (1280*768/60Hz, 48kHz) Data Cable : D-Sub

Frequency MHz	Antenna		Cable		Meter Reading		Emission Level	
	Factor dB/m	Loss dB	Vertical dBμV	Vertical dBμV/m	Limits dBμV/m	Margin dB		
65.410	12.48	1.22	11.10	24.80	40.00	15.20		
79.284	13.63	1.32	12.70	27.65	40.00	12.35		
114.710	17.38	1.61	6.20	25.19	43.50	18.31		
160.070	19.36	1.89	8.80	30.05	43.50	13.45		
201.885	22.38	2.24	3.00	27.62	43.50	15.88		
269.181	24.09	2.56	8.60	35.25	46.00	10.75		
403.772	16.35	3.33	6.70	26.38	46.00	19.62		
471.068	18.58	3.77	17.01	39.36	46.00	6.64		
480.206	18.24	3.62	13.30	35.16	46.00	10.84		
538.363	18.64	3.99	7.29	29.92	46.00	16.08		
640.275	19.71	4.65	7.10	31.46	46.00	14.54		
672.954	20.22	4.75	8.92	33.89	46.00	12.11		
740.249	21.80	5.09	6.90	33.79	46.00	12.21		
800.344	22.13	5.30	14.20	41.63	46.00	4.37		
* 942.136	25.79	6.24	11.60	43.63	46.00	2.37		

- Remark :
1. All reading are Quasi-Peak values.
 2. Emission Level= Antenna Factor + Cable Loss + Meter Reading.
 3. The worst emission was detected at 942.136MHz with corrected signal level of 43.63dBμV/m (limit was 46dBμV/m) when the antenna was at vertical polarization and was at 1m high and the turn table was at 115°.
 4. 0° is the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.

4. DEVIATION TO TEST SPECIFICATIONS

【NONE】