APPLICATION FOR CERTIFICATION
On Behalf of
Philips Electronics Industries (Taiwan) Ltd.
Flat Panel Color Monitor
Model No.：420WN6
FCC ID : A3KM146
Brand : PHILIPS

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 County, Taiwan, R.O.C.

Tel: (02) 2609-9301, 2609-2133
Fax: (02) 2609-9303

File Number	:	EM940777
Report Number	:	EM-F940143
Date of Test	:	Jun. 29 ~ 30, 2005
Date of Report	:	Jul. 04, 2005

TABLE OF CONTENTS

Description Page

Test Report Certification....3

1. GENERAL INFORMATION....4

1.1. Description of Device (EUT)....4
1.2. Tested Supporting System Details....5
1.3. Test Facility....7
1.4. Measurement Uncertainty....7

2. POWERLINE CONDUCTED EMISSION MEASUREMENT....8

2.1. Test Equipment....8
2.2. Block Diagram of Test Setup....8
2.3. Powerline Conducted Emission Limit (15.107, Class B)....8
2.4. EUT's Configuration during Compliance Measurement....9
2.5. Operating Condition of EUT....9
2.6. Test Procedure....10
2.7. Conducted Emission Measurement Results....10

3. RADIATED EMISSION MEASUREMENT....25

3.1. Test Equipment....25
3.2. Block Diagram of Test Setup....25
3.3. Radiation Limit (15.109/CISPR 22, Class B)....26
3.4. EUT's Configuration during Compliance Measurement....26
3.5. Operating Condition of EUT....26
3.6. Test Procedure....26
3.7. Radiated Emission Measurement Results....27

4. DEVIATION TO TEST SPECIFICATIONS....42

5. PHOTOGRAPHS....43

5.1. Photos of Conducted Emission Measurement....43
5.2. Photos of Radiated Measurement at Open Area Test Site....45

TEST REPORT CERTIFICATION

Applicant	:	Philips Electronics Industries (Taiwan) Ltd.
Manufacturer	:	Philips Electronics Industries (Taiwan) Ltd.
Factory #1	:	Skyway (Dong Guan) Monitor Factory
Factory #2	:	Philips Consumer Electronics Co., of Suzhou Ltd.
Factory #3	:	Philips Ltd. Assembly Centre Hungary
EUT Description	:	Flat Panel Color Monitor
FCC ID	:	A3KM146

(A) MODEL NO. : 420WN6
(B) SERIAL NO. : TY0405258
(C) BRAND NAME : PHILIPS
(D) POWER SUPPLY : AC 100-240V~ 60-50Hz
(E) TEST VOLTAGE : AC 120V/60Hz

Measurement Standard Used:

FCC CFR 47 Part 15 Subpart B/Jan. 2005 and CISPR 22/1997
ANSI C63.4-2003

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 FCC Part 15 Subpart B with the provisions of sections 15.107(a) and 15.109(g) Class B limits both conducted and radiated emission.

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 compliant 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 : Jun. 29 ~ 30, 2005

Prepared by : Monica Chang Jul. 08. 2005
(Monica Chang/Administrator)

Test Engineer : Tony Lee Jul. 11. 2005.
(Tony Lee/Section Manager)

Approved & Authorized Signer : Leon Liu Jul. 11 2005
(Leon Liu/Senior Manager)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Description	:	Flat Panel Color Monitor
Model Number	:	420WN6
Serial Number	:	TY0405258
FCC ID.	:	A3KM146
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 Road, Chungli Industrial Park P.O. Box 123, Chungli, Taoyuan, Taiwan, R.O.C
Factory #1	:	Skyway (Dong Guan) Monitor Factory Industrial Zone, Da Ling Shan Town, Dong Guan City, Guang Dong, China
Factory #2	:	Philips Consumer Electronics Co., of Suzhou Ltd. No. 161, Zhujiang Road, New District, Suzhou 215011, China
Factory #3	:	Philips Ltd. Assembly Centre Hungary Holland Fasor 6. PF 204, H-8002 Szekesfehervar, Hungary
Scanning Frequency	:	Horizontal: 45-50kHz Vertical: 47-63Hz
Max Resolution	:	1360*768/60Hz, 48kHz
LCD Panel	:	LPL, M/N LC420W02
D-Sub Data Cable	:	Shielded, Detachable, 1.8m Bonded two ferrite cores
DVI Data Cable	:	Shielded, Detachable, 1.8m Bonded two ferrite cores

Audio Cable	:	Non-Shielded, Detachable, 1.5m
Power Cord	:	Non-Shielded, Detachable, 1.8m (3 pin)
Data of Receipt of Sample	:	Jun. 27, 2005
Date of Test	:	Jun. 29 ~ 30, 2005

1.2. Tested Supporting System Details

1.2.1. 15" LCD MONITOR (TO EUT)

Model Number	:	D5063
Serial Number	:	CN206A6013
FCC ID	:	ARSLM562H
BSMI ID	:	R33037
Manufacturer	:	Top Victory Electronics (Fujian) Co., Ltd.
Data Cable (D-Sub)	:	Shielded, Detachable, 1.8m Bonded two ferrite cores
AC Adapter	:	Delta, M/N ADP-40TB BSMI ID 3892D142 Cord: Shielded, Undetachable, 1.8m Bonded a ferrite core
Power Cord	:	Non-Shielded, Detachable, 1.8m

1.2.2. TV PATTERN GENERATOR (TO EUT)

Model Number	:	PM 5418 TDSI+Y/C
Serial Number	:	LO646252
Manufacturer	:	Philips
Next Cal. Date	:	Sep. 15, 2005
BNC Cable	:	Shielded, Detachable, 1.8m
Power Cord	:	Non-Shielded, Detachable, 1.8m

1.2.3. EARPHONE (TO EUT)

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

1.2.4. PC SYSTEM

Model Name	:	Dell Dim 4600PC
Model Number	:	DMC
Serial Number	:	5DYW915
FCC ID.	:	By DoC
BSMI ID	:	R33002
Manufacturer	:	DELL
VGA Card	:	Nvidia FX5200
Power Cord	:	Non-shielded, Detachable, 1.8m

1.2.5. KEYBOARD

Model Number	:	SK-8110
Serial Number	:	N/A
BSMI ID	:	T3A002
FCC ID	:	By DoC

Manufacturer	:	DELL
Data Cable	:	Non-Shielded, Undetachable, 2m

1.2.6. DOT MATRIX PRINTER

Model Number	:	KX-P2135
Serial Number	:	8DMCN02139
FCC ID	:	ACJ5Z6KX-P2135
BSMI ID	:	3872A371
Manufacturer	:	Matsushita (Brand: Panasonic)
Data Cable	:	Shielded, Detachable, 1.5m
Power Cord	:	Non-Shielded, Detachable, 1.8m

1.2.7. MOUSE

Model Number	:	MO71KC
Serial Number	:	406012041
BSMI ID	:	R41108
FCC ID	:	By DoC
Manufacturer	:	DELL
Data Cable	:	Non-Shielded, Undetachable, 2m

1.2.8. WALKMAN

Model Number	:	RQ-P35LT-K
Serial Number	:	HA08631
Manufacturer	:	Panasonic
Data Cable	:	Non-Shielded, Detachable, 1.8m

1.2.9. MICROPHONE

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

1.2.10. MICRO VAULT

Model Number	:	USM128U2
Serial Number	:	N/A
FCC ID	:	By DoC
BSMI ID	:	D33021
Manufacturer	:	SONY
Data Cable	:	Shielded, Detachable, 1.8m

1.3. Test Facility

Name of Firm : **Audix Corporation**
Technical Division EMC Department
No. 53-11, Tin-Fu Tsun, Lin-Kou Hsiang,
Taipei County 24443, Taiwan, R.O.C.

Test Facility & Location : **No. 5 Shielded Room**

No. 67-4, Tin-Fu Tsun, Lin-Kou Hsiang,
Taipei County 24443, Taiwan, R.O.C.

No. 4 Open Area Test Site
No. 67-4, Tin-Fu Tsun, Lin-Kou Hsiang,
Taipei County 24443, Taiwan, R.O.C.

Feb. 03, 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-145/03-01

1.4. Measurement Uncertainty

Test Item	Frequency Range	Uncertainty (dB)
Conduction Test	150kHz~30MHz	±1.73dB
Radiation Test (Distance: 10m)	30MHz~300MHz	±2.99dB
	300MHz~1000MHz	±2.73dB

Remark：Uncertainty = $ku_c(y)$

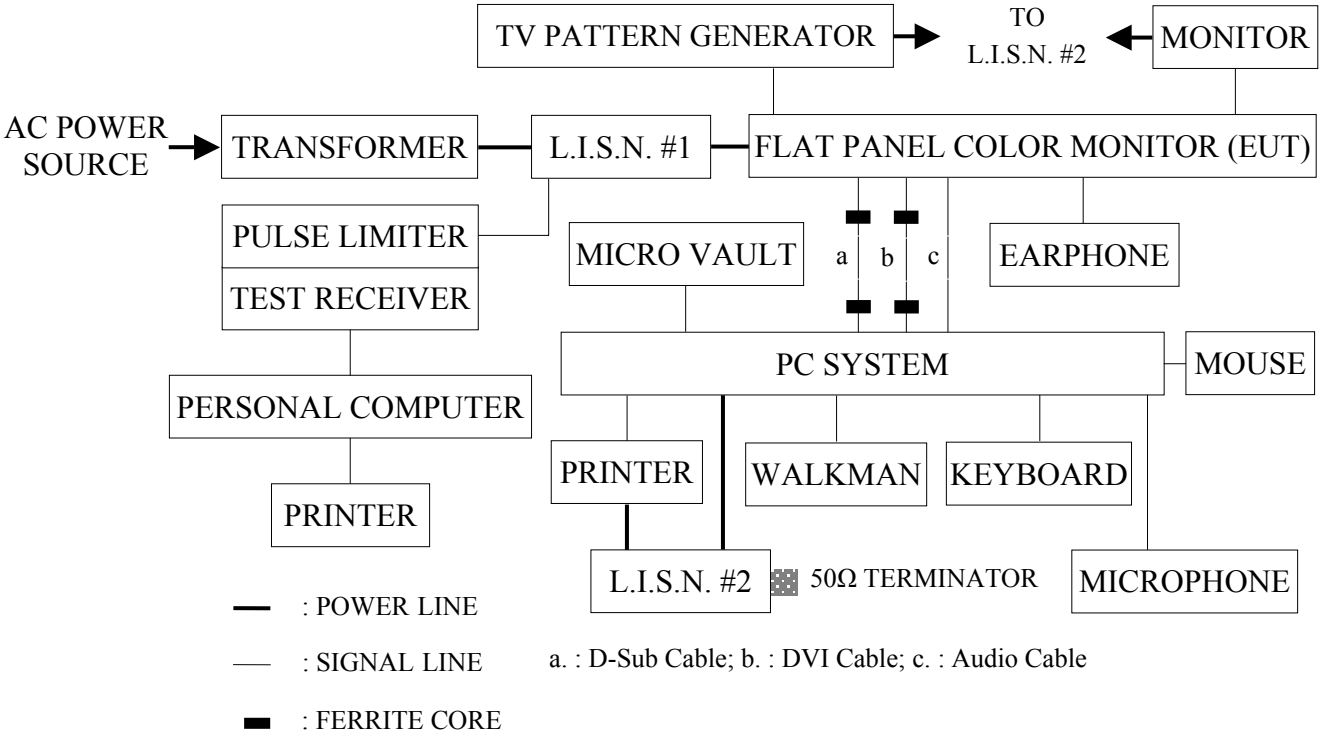
2. POWERLINE CONDUCTED EMISSION MEASUREMENT

2.1. Test Equipment

The following test equipment was used during the powerline conducted emission measurement：

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Test Receiver	R & S	ESCS30	100039	Jun. 23, 05’	Jun. 22, 06’
2.	L.I.S.N. #1	Kyoritsu	KNW-407	8-1539-2	Nov. 18, 04’	Nov. 17, 05’
3.	L.I.S.N. #2	Kyoritsu	KNW-407	8-1539-3	Nov. 18, 04’	Nov. 17, 05’
4.	Pulse Limiter	R & S	ESH3-Z2	100040	Apr. 09, 05’	Apr. 08, 06’

2.2. Block Diagram of Test Setup



2.3. Powerline Conducted Emission Limit (15.107, Class B)

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

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	:	420WN6
Serial Number	:	TY0405258
FCC ID	:	A3KM146
Brand	:	PHILIPS
Manufacturer	:	Philips Electronics Industries (Taiwan) Ltd.
Scanning Frequency	:	Horizontal: 45-50kHz Vertical: 47-63Hz
Max Resolution	:	1360*768/60Hz, 48kHz
LCD Panel	:	LPL, M/N LC420W02
D-Sub Data Cable	:	Shielded, Detachable, 1.8m Bonded two ferrite cores
DVI Data Cable	:	Shielded, Detachable, 1.8m Bonded two ferrite cores
Audio Cable	:	Non-Shielded, Detachable, 1.5m
Power Cord	:	Non-Shielded, Detachable, 1.8m (3 pin)

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. The PC System read data from disk.

2.5.4. The PC System running the EMI self-test program "H-V1.8" sent character "H" to Monitor (EUT), the screen of Monitor (EUT) displayed and filled with "H" pattern by EUT's resolution.

2.5.5. The PC System sent "H" pattern to the Flat Panel Color Monitor (EUT) via D-Sub Port (EUT input) and the TV Pattern Generator sent the "Color Bar" image to the Flat Panel Color Monitor (EUT) via BNC port (EUT input) at the same time.

2.5.6. The Flat Panel Color Monitor (EUT) sent character "H" to the 15" LCD Monitor via D-Sub port (EUT output) during all testing.

2.5.7. The other peripheral devices were driven and operated in turn during all testing.

2.6. Test Procedure

The EUT was put on table which was above the ground by 80cm and its power cord was connected to the power mains through a line impedance stabilization network (L.I.S.N. #1) and the other peripheral devices power cord were connected to the power mains through a line impedance stabilization network (L.I.S.N. #2) This provided a 50 ohm 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 C63.4-2003 on conducted measurement.

The bandwidth of the R&S Test Receiver ESCS30 was set at 9kHz.

The frequency range from 150kHz to 30MHz was pre-scanned with a peak detector.

All the final readings from test receiver were measured with Quasi-Peak detector and Average detector. (Remark： If the Average limit is met when using a Quasi-Peak detector, the Average detector is unnecessary)

2.7. Conducted Emission Measurement Results

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

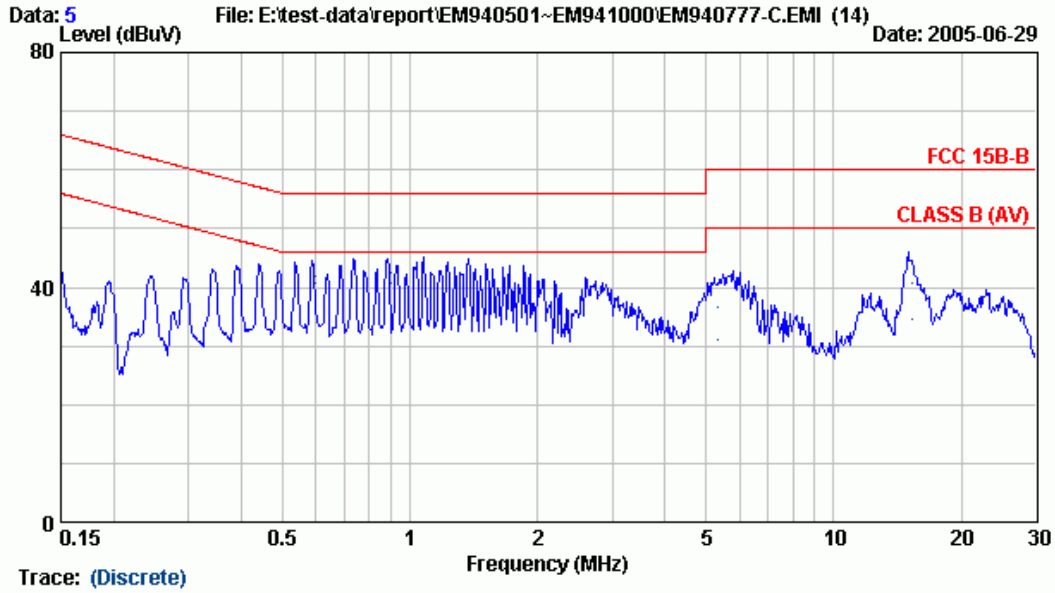
The EUT with following test modes was tested during the conducted testing and all the test results are listed in the following pages.

Test Date： Jun. 29, 2005 Temperature：27℃ Humidity：67%

The details of test modes are as follows：

Mode	Input	Display, Resolution/Frequency	Reference Test Data No.	
			Neutral	Line
1.	D-Sub	“H” Pattern, 640*480/60Hz, 31kHz	# 5	# 6
2.		“H” Pattern, 1280*768/60Hz, 48kHz	# 4	# 3
3.		“H” Pattern, 1360*768/60Hz, 48kHz	# 1	# 2
4.	DVI	“H” Pattern, 640*480/60Hz, 31kHz	# 8	# 7
5.		“H” Pattern, 1280*768/60Hz, 48kHz	# 9	# 10
6.		“H” Pattern, 1360*768/60Hz, 48kHz	# 12	# 11
7.	D-Sub + BNC	PIP- “H” Pattern & “Color Bar” Image	# 13	# 14

AUDIX Corp. EMC Laboratory
NO.53-11,Tin-fu Tsun, Lin-kou Hsiang, Taipei County, Taiwan R.O.C. Post Code:24443
Tel:02-26099301 Fax:02-26099303
Email:ttemc@ttemc.com.tw

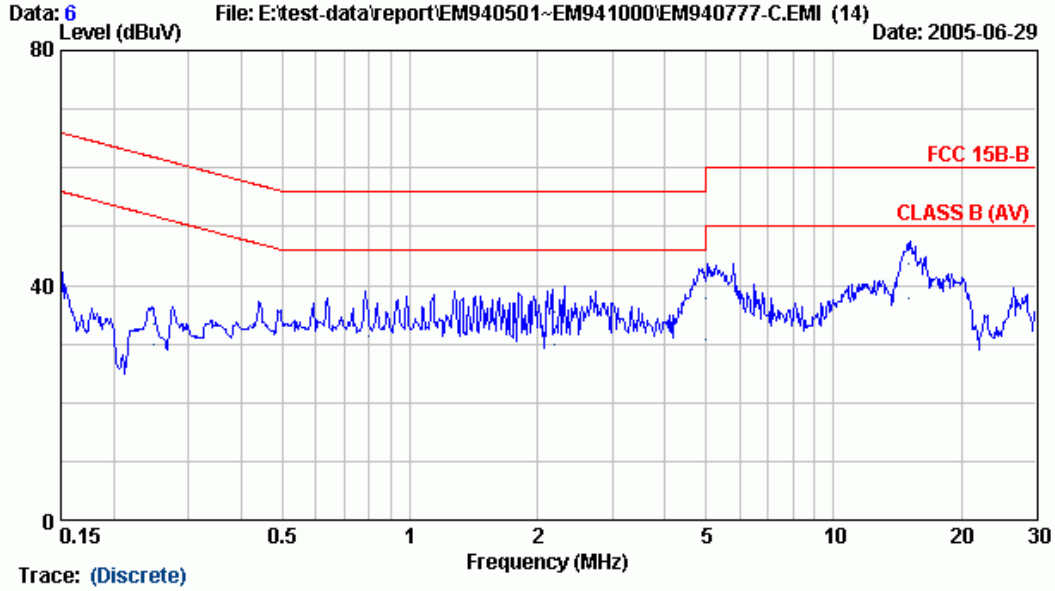


Site : NO.5 Shielded room Data : 5
Condition : KNW-407(8-1539-3) Phase : NEUTRAL
Limit : FCC 15B-B
Env. / Ins. : 27*C/67% ESCS 30 Engineer: Jingo
EUT : Flat Panel Color Monitor M/N:420WN6
Power Rating : 120Vac/60Hz
Test Mode : 640*480/60Hz 31KHz(D-Sub)

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.350	0.10	0.20	40.23	40.53	58.97	18.44	QP
2	0.350	0.10	0.20	39.86	40.16	48.97	8.81	AVERAGE
3	0.448	0.10	0.20	41.86	42.16	56.91	14.75	QP
4	0.448	0.10	0.20	40.38	40.68	46.91	6.23	AVERAGE
5	0.597	0.10	0.20	41.73	42.03	56.00	13.97	QP
6	0.597	0.10	0.20	40.41	40.71	46.00	5.29	AVERAGE
7	0.900	0.10	0.20	42.08	42.38	56.00	13.62	QP
8	0.900	0.10	0.20	40.50	40.80	46.00	5.20	AVERAGE
9	5.320	0.12	0.60	35.87	36.59	60.00	23.41	QP
10	5.320	0.12	0.60	30.25	30.97	50.00	19.03	AVERAGE
11	15.345	0.21	0.70	39.75	40.66	60.00	19.34	QP
12	15.345	0.21	0.70	33.74	34.65	50.00	15.35	AVERAGE

Remarks: 1.Emission Level= LISN Factor + Cable Loss + Reading.
2.If the average limit is met when using a quasi-peak detector ,the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

AUDIX Corp. EMC Laboratory
NO.53-11,Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:02-26099301 Fax:02-26099303
Email:ttemc@ttemc.com.tw

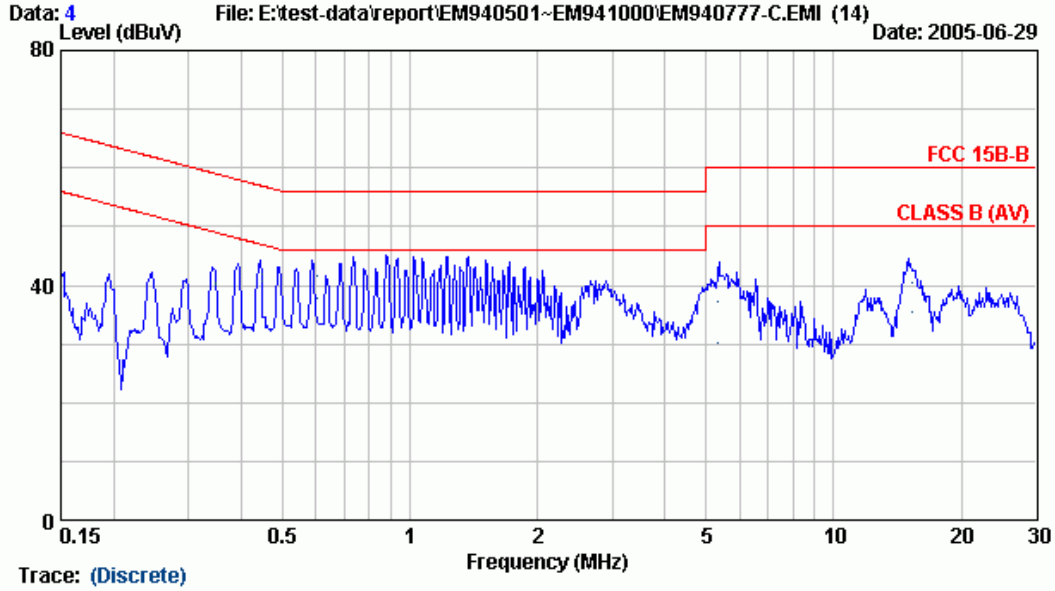


Site : NO.5 Shielded room Data : 6
Condition : KNW-407(8-1539-3) Phase : LINE
Limit : FCC 15B-B
Env. / Ins. : 27*C/67% ESCS 30 Engineer: Jingo
EUT : Flat Panel Color Monitor M/N:420WN6
Power Rating : 120Vac/60Hz
Test Mode : 640*480/60Hz 31KHz(D-Sub)

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.150	0.20	0.20	34.19	34.59	65.99	31.40	QP
2	0.150	0.20	0.20	32.12	32.52	55.99	23.47	AVERAGE
3	0.249	0.18	0.20	33.11	33.49	61.79	28.30	QP
4	0.249	0.18	0.20	29.39	29.77	51.79	22.02	AVERAGE
5	0.797	0.10	0.20	34.02	34.32	56.00	21.68	QP
6	0.797	0.10	0.20	30.97	31.27	46.00	14.73	AVERAGE
7	2.195	0.10	0.40	34.85	35.35	56.00	20.65	QP
8	2.195	0.10	0.40	29.46	29.96	46.00	16.04	AVERAGE
9	4.981	0.12	0.60	36.99	37.71	56.00	18.29	QP
10	4.981	0.12	0.60	30.13	30.85	46.00	15.15	AVERAGE
11	15.062	0.20	0.70	42.64	43.54	60.00	16.46	QP
12	15.070	0.20	0.70	37.03	37.93	50.00	12.07	AVERAGE

Remarks: 1.Emission Level= LISN Factor + Cable Loss + Reading.
2.If the average limit is met when using a quasi-peak detector ,the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

AUDIX Corp. EMC Laboratory
NO.53-11,Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:02-26099301 Fax:02-26099303
Email:ttemc@ttemc.com.tw

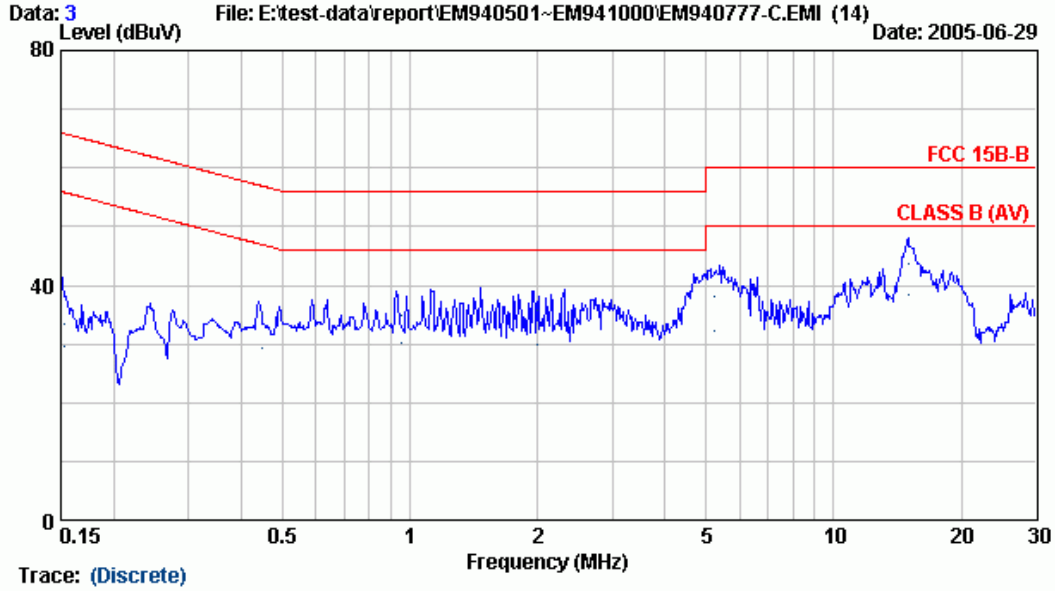


Site : NO.5 Shielded room Data : 4
Condition : KNW-407(8-1539-3) Phase : NEUTRAL
Limit : FCC 15B-B
Env. / Ins. : 27*C/67% ESCS 30 Engineer: Jingo
EUT : Flat Panel Color Monitor M/N:420WN6
Power Rating : 120Vac/60Hz
Test Mode : 1280*768/60Hz 48KHz(D-Sub)

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.349	0.10	0.20	40.02	40.32	58.99	18.67	QP
2	0.349	0.10	0.20	39.86	40.16	48.99	8.83	AVERAGE
3	0.448	0.10	0.20	41.74	42.04	56.92	14.88	QP
4	0.448	0.10	0.20	40.38	40.68	46.92	6.24	AVERAGE
5	0.604	0.10	0.20	41.29	41.59	56.00	14.41	QP
6	0.604	0.10	0.20	37.59	37.89	46.00	8.11	AVERAGE
7	1.052	0.10	0.40	41.10	41.60	56.00	14.40	QP
8	1.052	0.10	0.40	37.83	38.33	46.00	7.67	AVERAGE
9	5.301	0.12	0.60	36.41	37.13	60.00	22.87	QP
10	5.301	0.12	0.60	29.59	30.31	50.00	19.69	AVERAGE
11	15.328	0.21	0.70	39.65	40.56	60.00	19.44	QP
12	15.328	0.21	0.70	34.52	35.43	50.00	14.57	AVERAGE

Remarks: 1.Emission Level= LISN Factor + Cable Loss + Reading.
2.If the average limit is met when using a quasi-peak detector ,the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

AUDIX Corp. EMC Laboratory
NO.53-11,Tin-fu Tsun, Lin-kou Hsiang, Taipei County, Taiwan R.O.C. Post Code:24443
Tel:02-26099301 Fax:02-26099303
Email:ttemc@ttemc.com.tw

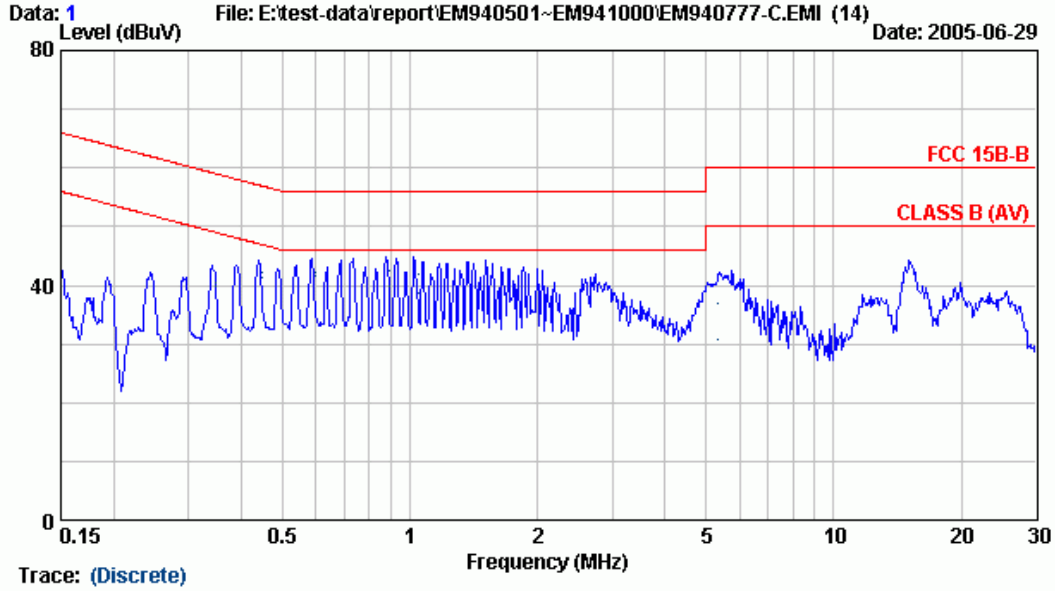


Site : NO.5 Shielded room Data : 3
Condition : KNW-407(8-1539-3) Phase : LINE
Limit : FCC 15B-B
Env. / Ins. : 27*C/67% ESCS 30 Engineer: Jingo
EUT : Flat Panel Color Monitor M/N:420WN6
Power Rating : 120Vac/60Hz
Test Mode : 1280*768/60Hz 48KHz(D-Sub)

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.153	0.20	0.20	32.99	33.39	65.82	32.43	QP
2	0.153	0.20	0.20	29.24	29.64	55.82	26.18	AVERAGE
3	0.447	0.10	0.20	34.84	35.14	56.94	21.80	QP
4	0.447	0.10	0.20	28.96	29.26	46.94	17.68	AVERAGE
5	0.951	0.10	0.20	34.50	34.80	56.00	21.20	QP
6	0.951	0.10	0.20	29.85	30.15	46.00	15.85	AVERAGE
7	1.995	0.10	0.40	35.19	35.69	56.00	20.31	QP
8	1.995	0.10	0.40	29.29	29.79	46.00	16.21	AVERAGE
9	5.211	0.12	0.60	37.32	38.04	60.00	21.96	QP
10	5.211	0.12	0.60	31.60	32.32	50.00	17.68	AVERAGE
11	15.084	0.20	0.70	42.72	43.62	60.00	16.38	QP
12	15.084	0.20	0.70	37.41	38.31	50.00	11.69	AVERAGE

Remarks: 1.Emission Level= LISN Factor + Cable Loss + Reading.
2.If the average limit is met when using a quasi-peak detector ,the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

AUDIX Corp. EMC Laboratory
NO.53-11,Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:02-26099301 Fax:02-26099303
Email:ttemc@ttemc.com.tw

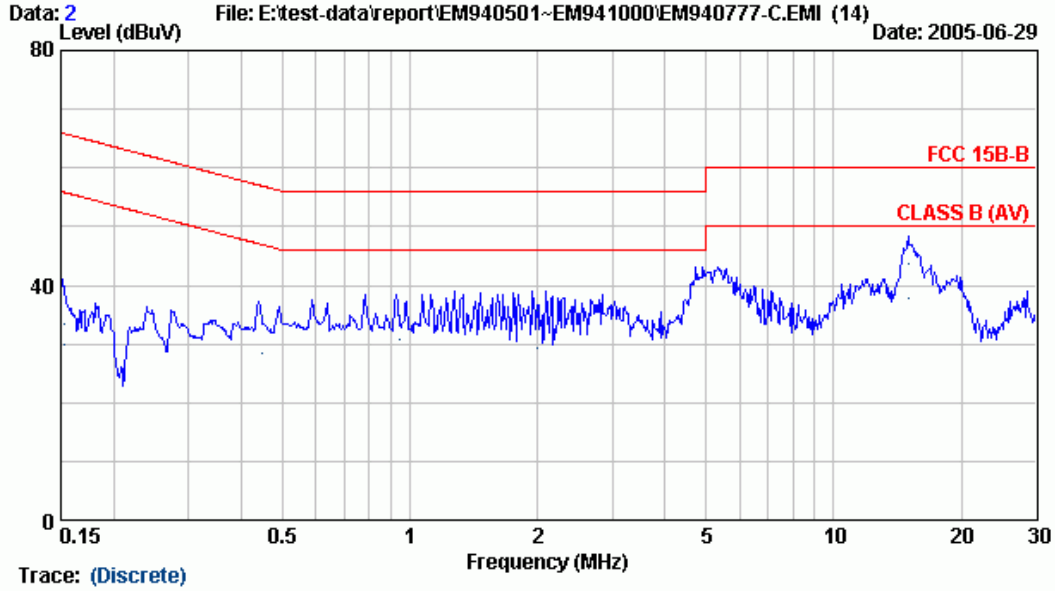


Site : NO.5 Shielded room Data : 1
Condition : KNW-407(8-1539-3) Phase : NEUTRAL
Limit : FCC 15B-B
Env. / Ins. : 27*C/67% ESCS 30 Engineer: Jingo
EUT : Flat Panel Color Monitor M/N:420WN6
Power Rating : 120Vac/60Hz
Test Mode : 1360*768/60Hz 48KHz(D-Sub)

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.348	0.10	0.20	40.00	40.30	59.01	18.71	QP
2	0.348	0.10	0.20	39.62	39.92	49.01	9.09	AVERAGE
3	0.449	0.10	0.20	41.94	42.24	56.89	14.65	QP
4	0.449	0.10	0.20	40.97	41.27	46.89	5.62	AVERAGE
5	0.600	0.10	0.20	41.83	42.13	56.00	13.87	QP
6	0.600	0.10	0.20	41.39	41.69	46.00	4.31	AVERAGE
7	0.896	0.10	0.20	42.23	42.53	56.00	13.47	QP
8	0.896	0.10	0.20	39.65	39.95	46.00	6.05	AVERAGE
9	1.046	0.10	0.40	41.38	41.88	56.00	14.12	QP
10	1.046	0.10	0.40	38.12	38.62	46.00	7.38	AVERAGE
11	5.311	0.12	0.60	36.31	37.03	60.00	22.97	QP
12	5.311	0.12	0.60	30.10	30.82	50.00	19.18	AVERAGE

Remarks: 1.Emission Level= LISN Factor + Cable Loss + Reading.
2.If the average limit is met when using a quasi-peak detector ,the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

AUDIX Corp. EMC Laboratory
NO.53-11,Tin-fu Tsun, Lin-kou Hsiang, Taipei County, Taiwan R.O.C. Post Code:24443
Tel:02-26099301 Fax:02-26099303
Email:ttemc@ttemc.com.tw

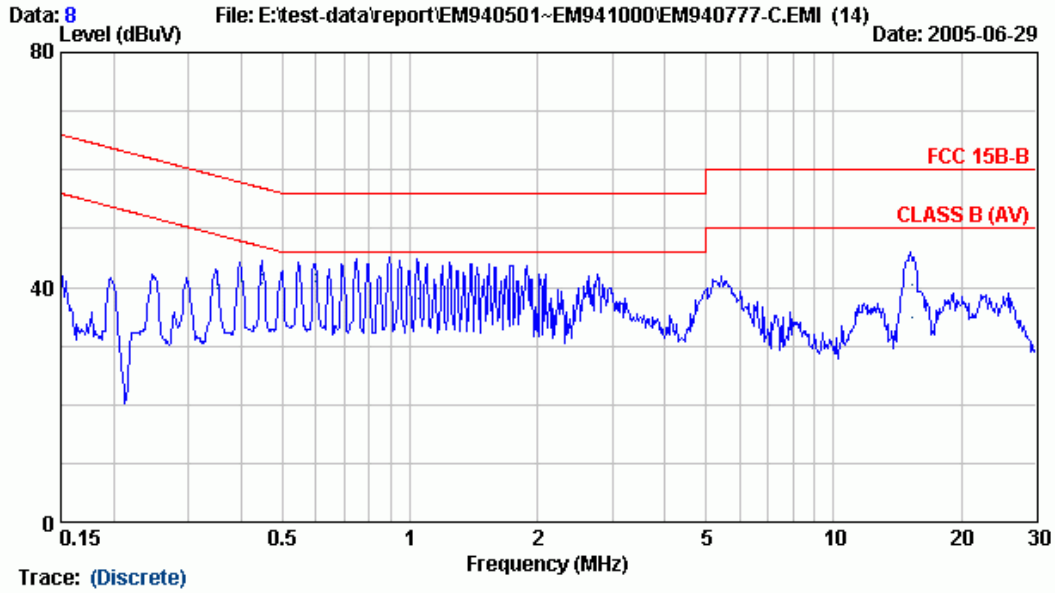


Site : NO.5 Shielded room Data : 2
Condition : KNW-407(8-1539-3) Phase : LINE
Limit : FCC 15B-B
Env. / Ins. : 27*C/67% ESCS 30 Engineer: Jingo
EUT : Flat Panel Color Monitor M/N:420WN6
Power Rating : 120Vac/60Hz
Test Mode : 1360*768/60Hz 48KHz(D-Sub)

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.153	0.20	0.20	32.93	33.33	65.84	32.51	QP
2	0.153	0.20	0.20	29.62	30.02	55.84	25.82	AVERAGE
3	0.446	0.10	0.20	34.64	34.94	56.95	22.01	QP
4	0.446	0.10	0.20	28.27	28.57	46.95	18.38	AVERAGE
5	0.945	0.10	0.20	34.66	34.96	56.00	21.04	QP
6	0.945	0.10	0.20	30.34	30.64	46.00	15.36	AVERAGE
7	1.989	0.10	0.40	35.15	35.65	56.00	20.35	QP
8	1.990	0.10	0.40	28.89	29.39	46.00	16.61	AVERAGE
9	15.078	0.20	0.70	42.72	43.62	60.00	16.38	QP
10	15.078	0.20	0.70	36.85	37.75	50.00	12.25	AVERAGE

Remarks: 1.Emission Level= LISN Factor + Cable Loss + Reading.
2.If the average limit is met when using a quasi-peak detector ,the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

AUDIX Corp. EMC Laboratory
NO.53-11,Tin-fu Tsun, Lin-kou Hsiang, Taipei County, Taiwan R.O.C. Post Code:24443
Tel:02-26099301 Fax:02-26099303
Email:ttemc@ttemc.com.tw

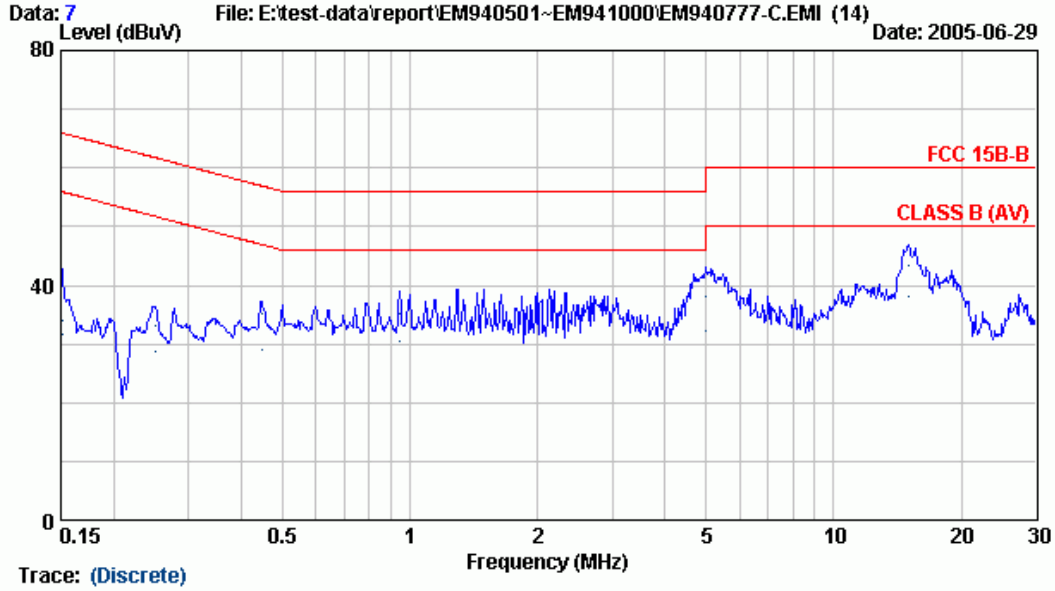


Site : NO.5 Shielded room Data : 8
Condition : KNW-407(8-1539-3) Phase : NEUTRAL
Limit : FCC 15B-B
Env. / Ins. : 27*C/67% ESCS 30 Engineer: Jingo
EUT : Flat Panel Color Monitor M/N:420WN6
Power Rating : 120Vac/60Hz
Test Mode : 640*480/60Hz 31KHz(DVI)

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.350	0.10	0.20	40.03	40.33	58.96	18.63	QP
2	0.350	0.10	0.20	39.61	39.91	48.96	9.05	AVERAGE
3	0.400	0.10	0.20	41.13	41.43	57.85	16.42	QP
4	0.400	0.10	0.20	40.63	40.93	47.85	6.92	AVERAGE
5	0.448	0.10	0.20	41.88	42.18	56.91	14.73	QP
6	0.448	0.10	0.20	40.46	40.76	46.91	6.15	AVERAGE
7	0.601	0.10	0.20	41.82	42.12	56.00	13.88	QP
8	0.601	0.10	0.20	40.83	41.13	46.00	4.87	AVERAGE
9	1.045	0.10	0.40	41.53	42.03	56.00	13.97	QP
10	1.045	0.10	0.40	37.55	38.05	46.00	7.95	AVERAGE
11	15.332	0.21	0.70	39.65	40.56	60.00	19.44	QP
12	15.332	0.21	0.70	34.01	34.92	50.00	15.08	AVERAGE

Remarks: 1.Emission Level= LISN Factor + Cable Loss + Reading.
2.If the average limit is met when using a quasi-peak detector ,the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

AUDIX Corp. EMC Laboratory
NO.53-11,Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:02-26099301 Fax:02-26099303
Email:ttemc@ttemc.com.tw

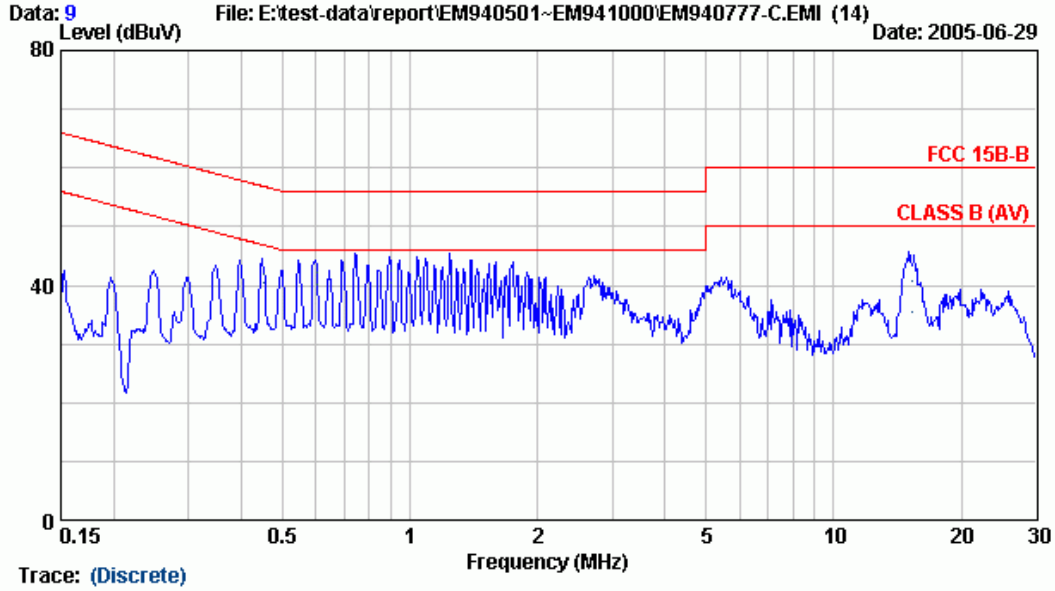


Site : NO.5 Shielded room Data : 7
Condition : KNW-407(8-1539-3) Phase : LINE
Limit : FCC 15B-B
Env. / Ins. : 27*C/67% ESCS 30 Engineer: Jingo
EUT : Flat Panel Color Monitor M/N:420WN6
Power Rating : 120Vac/60Hz
Test Mode : 640*480/60Hz 31KHz(DVI)

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.152	0.20	0.20	33.58	33.98	65.89	31.91	QP
2	0.152	0.20	0.20	31.12	31.52	55.89	24.37	AVERAGE
3	0.252	0.18	0.20	32.64	33.02	61.70	28.67	QP
4	0.252	0.18	0.20	28.22	28.60	51.70	23.09	AVERAGE
5	0.448	0.10	0.20	34.94	35.24	56.92	21.68	QP
6	0.448	0.10	0.20	28.62	28.92	46.92	18.00	AVERAGE
7	0.946	0.10	0.20	34.88	35.18	56.00	20.82	QP
8	0.946	0.10	0.20	30.27	30.57	46.00	15.43	AVERAGE
9	4.972	0.12	0.60	37.51	38.23	56.00	17.77	QP
10	4.972	0.12	0.60	31.55	32.27	46.00	13.73	AVERAGE
11	15.053	0.20	0.70	42.54	43.44	60.00	16.56	QP
12	15.053	0.20	0.70	37.28	38.18	50.00	11.82	AVERAGE

Remarks: 1.Emission Level= LISN Factor + Cable Loss + Reading.
2.If the average limit is met when using a quasi-peak detector ,the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

AUDIX Corp. EMC Laboratory
NO.53-11,Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:02-26099301 Fax:02-26099303
Email:ttemc@ttemc.com.tw

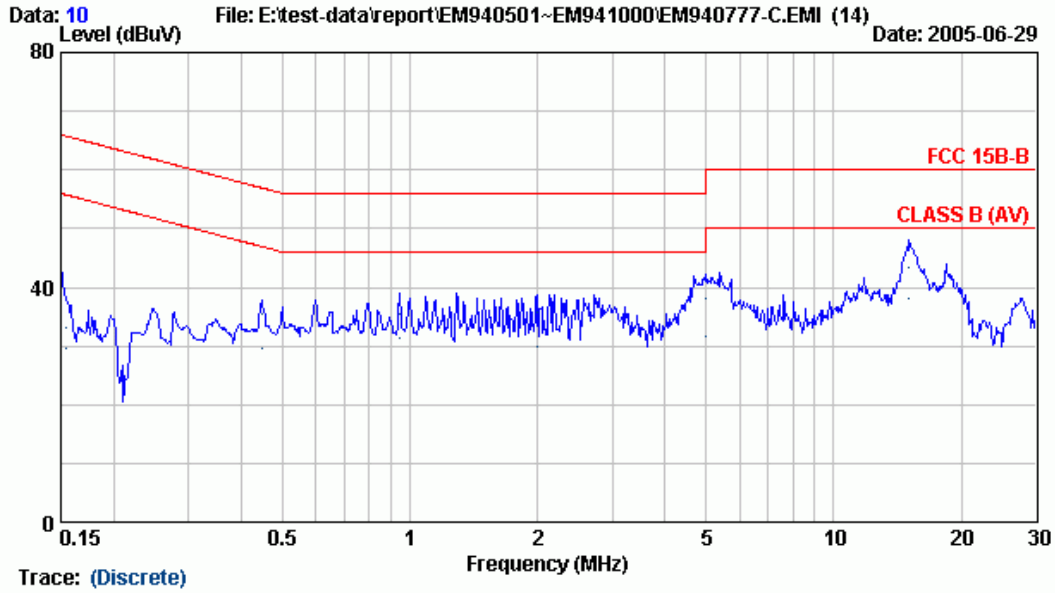


Site : NO.5 Shielded room Data : 9
Condition : KNW-407(8-1539-3) Phase : NEUTRAL
Limit : FCC 15B-B
Env. / Ins. : 27*C/67% ESCS 30 Engineer: Jingo
EUT : Flat Panel Color Monitor M/N:420WN6
Power Rating : 120Vac/60Hz
Test Mode : 1280*768/60Hz 48KHz(DVI)

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.451	0.10	0.20	41.66	41.96	56.85	14.89	QP
2	0.451	0.10	0.20	40.16	40.46	46.85	6.39	AVERAGE
3	0.602	0.10	0.20	41.78	42.08	56.00	13.92	QP
4	0.602	0.10	0.20	39.86	40.16	46.00	5.84	AVERAGE
5	0.900	0.10	0.20	42.08	42.38	56.00	13.62	QP
6	0.900	0.10	0.20	40.20	40.50	46.00	5.50	AVERAGE
7	1.049	0.10	0.40	41.20	41.70	56.00	14.30	QP
8	1.049	0.10	0.40	39.40	39.90	46.00	6.10	AVERAGE
9	1.255	0.10	0.40	41.52	42.02	56.00	13.98	QP
10	1.255	0.10	0.40	35.89	36.39	46.00	9.61	AVERAGE
11	15.307	0.21	0.70	39.75	40.66	60.00	19.34	QP
12	15.307	0.21	0.70	34.69	35.60	50.00	14.40	AVERAGE

Remarks: 1.Emission Level= LISN Factor + Cable Loss + Reading.
2.If the average limit is met when using a quasi-peak detector ,the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

AUDIX Corp. EMC Laboratory
NO.53-11,Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:02-26099301 Fax:02-26099303
Email:ttemc@ttemc.com.tw

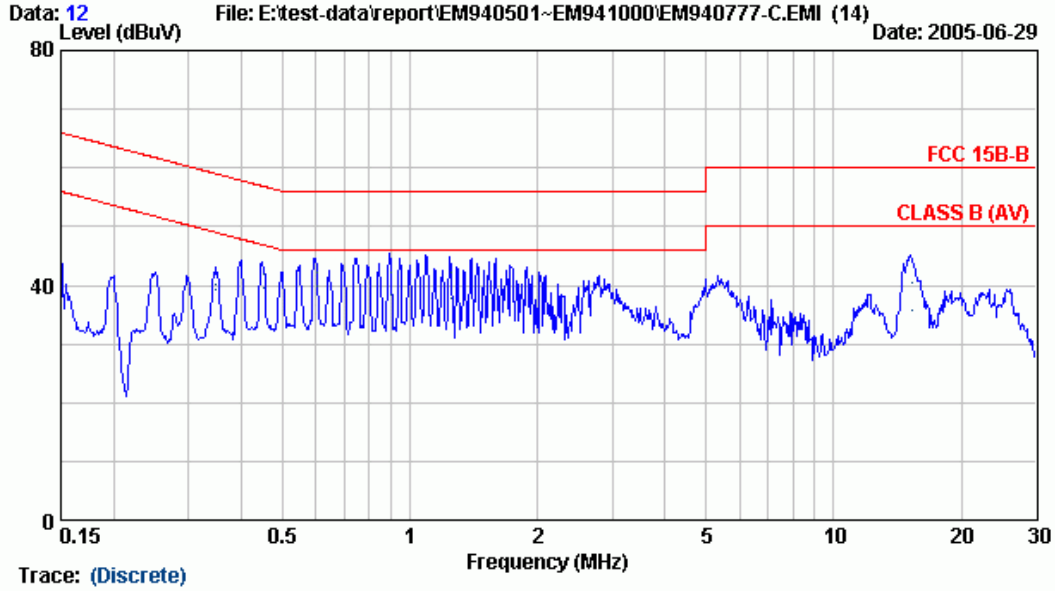


Site : NO.5 Shielded room Data : 10
Condition : KNW-407(8-1539-3) Phase : LINE
Limit : FCC 15B-B
Env. / Ins. : 27*C/67% ESCS 30 Engineer: Jingo
EUT : Flat Panel Color Monitor M/N:420WN6
Power Rating : 120Vac/60Hz
Test Mode : 1280*768/60Hz 48KHz(DVI)

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.154	0.20	0.20	32.61	33.01	65.81	32.80	QP
2	0.154	0.20	0.20	29.16	29.56	55.81	26.25	AVERAGE
3	0.448	0.10	0.20	35.02	35.32	56.91	21.59	QP
4	0.448	0.10	0.20	29.28	29.58	46.91	17.33	AVERAGE
5	0.949	0.10	0.20	35.18	35.48	56.00	20.52	QP
6	0.949	0.10	0.20	31.06	31.36	46.00	14.64	AVERAGE
7	1.990	0.10	0.40	35.33	35.83	56.00	20.17	QP
8	1.990	0.10	0.40	29.44	29.94	46.00	16.06	AVERAGE
9	4.982	0.12	0.60	37.27	37.99	56.00	18.01	QP
10	4.982	0.12	0.60	30.93	31.65	46.00	14.35	AVERAGE
11	15.088	0.20	0.70	42.52	43.42	60.00	16.58	QP
12	15.088	0.20	0.70	37.28	38.18	50.00	11.82	AVERAGE

Remarks: 1.Emission Level= LISN Factor + Cable Loss + Reading.
2.If the average limit is met when using a quasi-peak detector ,the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

AUDIX Corp. EMC Laboratory
NO.53-11,Tin-fu Tsun, Lin-kou Hsiang, Taipei County, Taiwan R.O.C. Post Code:24443
Tel:02-26099301 Fax:02-26099303
Email:ttemc@ttemc.com.tw

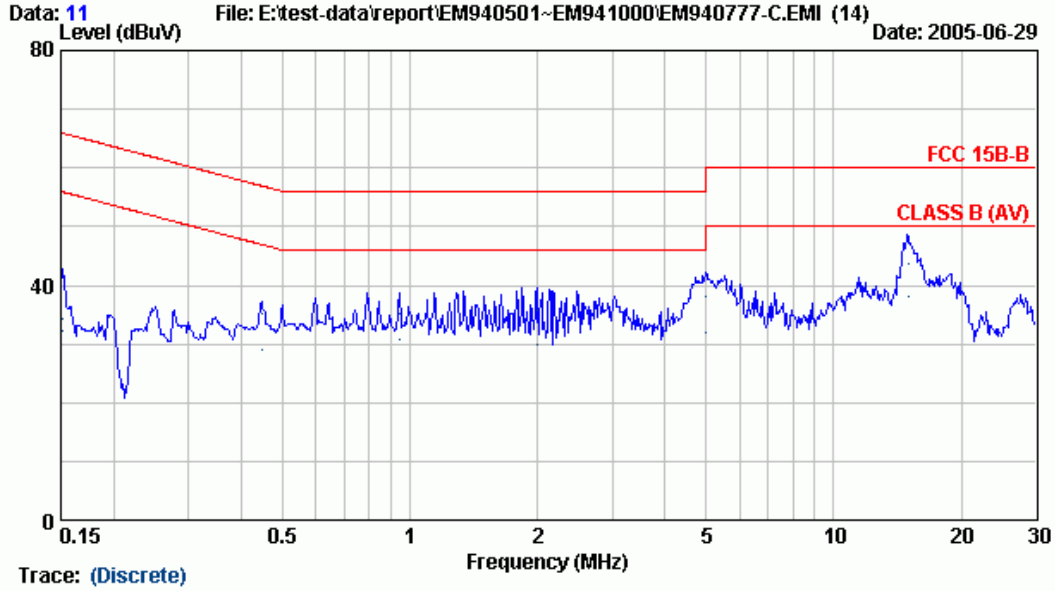


Site : NO.5 Shielded room Data : 12
Condition : KNW-407(8-1539-3) Phase : NEUTRAL
Limit : FCC 15B-B
Env. / Ins. : 27*C/67% ESCS 30 Engineer: Jingo
EUT : Flat Panel Color Monitor M/N:420WN6
Power Rating : 120Vac/60Hz
Test Mode : 1360*768/60Hz 48KHz(DVI)

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.347	0.10	0.20	39.84	40.14	59.02	18.88	QP
2	0.347	0.10	0.20	38.99	39.29	49.02	9.73	AVERAGE
3	0.452	0.10	0.20	41.50	41.80	56.84	15.04	QP
4	0.452	0.10	0.20	39.36	39.66	46.84	7.18	AVERAGE
5	0.602	0.10	0.20	41.78	42.08	56.00	13.92	QP
6	0.602	0.10	0.20	39.43	39.73	46.00	6.27	AVERAGE
7	0.903	0.10	0.20	41.94	42.24	56.00	13.76	QP
8	0.903	0.10	0.20	38.18	38.48	46.00	7.52	AVERAGE
9	1.253	0.10	0.40	41.68	42.18	56.00	13.82	QP
10	1.253	0.10	0.40	37.40	37.90	46.00	8.10	AVERAGE
11	15.330	0.21	0.70	39.65	40.56	60.00	19.44	QP
12	15.330	0.21	0.70	34.77	35.68	50.00	14.32	AVERAGE

Remarks: 1.Emission Level= LISN Factor + Cable Loss + Reading.
2.If the average limit is met when using a quasi-peak detector ,the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

AUDIX Corp. EMC Laboratory
NO.53-11,Tin-fu Tsun, Lin-kou Hsiang, Taipei County, Taiwan R.O.C. Post Code:24443
Tel:02-26099301 Fax:02-26099303
Email:ttemc@ttemc.com.tw

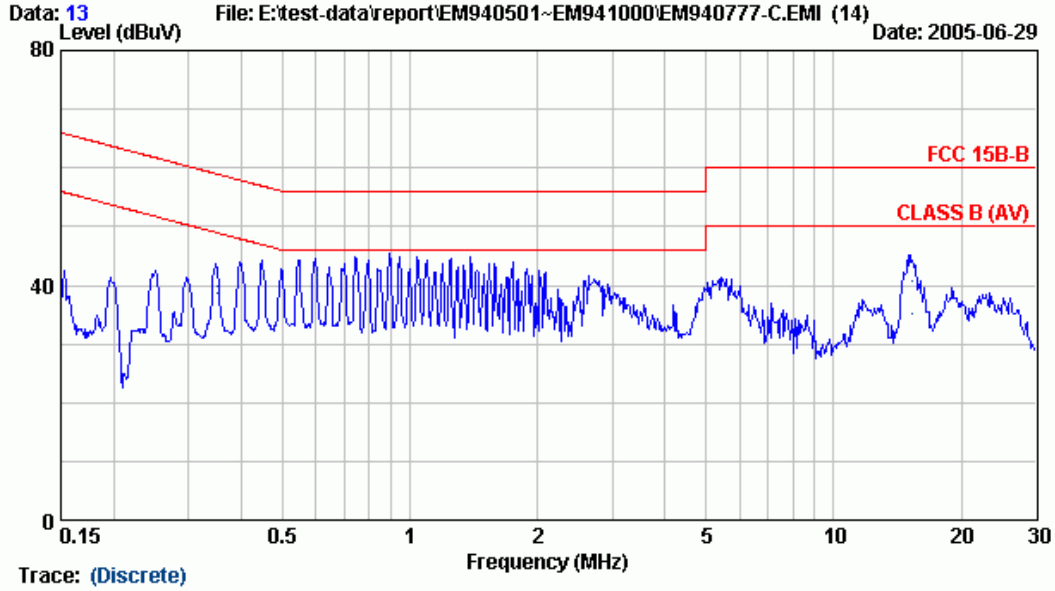


Site : NO.5 Shielded room Data : 11
Condition : KNW-407(8-1539-3) Phase : LINE
Limit : FCC 15B-B
Env. / Ins. : 27*C/67% ESCS 30 Engineer: Jingo
EUT : Flat Panel Color Monitor M/N:420WN6
Power Rating : 120Vac/60Hz
Test Mode : 1360*768/60Hz 48KHz(DVI)

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.151	0.20	0.20	33.91	34.31	65.94	31.63	QP
2	0.151	0.20	0.20	31.73	32.13	55.94	23.81	AVERAGE
3	0.449	0.10	0.20	34.78	35.08	56.90	21.82	QP
4	0.449	0.10	0.20	28.79	29.09	46.90	17.81	AVERAGE
5	0.947	0.10	0.20	34.78	35.08	56.00	20.92	QP
6	0.947	0.10	0.20	30.54	30.84	46.00	15.16	AVERAGE
7	1.993	0.10	0.40	35.21	35.71	56.00	20.29	QP
8	1.993	0.10	0.40	29.36	29.86	46.00	16.14	AVERAGE
9	4.979	0.12	0.60	37.25	37.97	56.00	18.03	QP
10	4.979	0.12	0.60	31.12	31.84	46.00	14.16	AVERAGE
11	15.085	0.20	0.70	42.64	43.54	60.00	16.46	QP
12	15.085	0.20	0.70	37.28	38.18	50.00	11.82	AVERAGE

Remarks: 1.Emission Level= LISN Factor + Cable Loss + Reading.
2.If the average limit is met when using a quasi-peak detector ,the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

AUDIX Corp. EMC Laboratory
NO.53-11,Tin-fu Tsun, Lin-kou Hsiang, Taipei County, Taiwan R.O.C. Post Code:24443
Tel:02-26099301 Fax:02-26099303
Email:ttemc@ttemc.com.tw

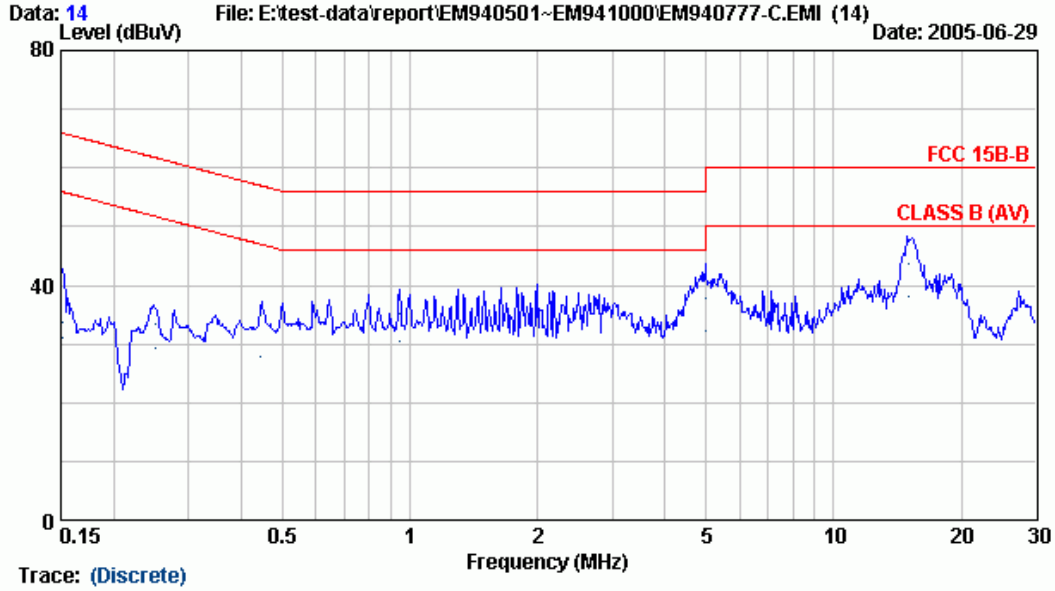


Site : NO.5 Shielded room Data : 13
Condition : KNW-407(8-1539-3) Phase : NEUTRAL
Limit : FCC 15B-B
Env. / Ins. : 27*C/67% ESCS 30 Engineer: Jingo
EUT : Flat Panel Color Monitor M/N:420WN6
Power Rating : 120Vac/60Hz
Test Mode : PIP

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.352	0.10	0.20	39.55	39.85	58.92	19.07	QP
2	0.352	0.10	0.20	38.52	38.82	48.92	10.10	AVERAGE
3	0.450	0.10	0.20	41.86	42.16	56.87	14.71	QP
4	0.450	0.10	0.20	40.85	41.15	46.87	5.72	AVERAGE
5	0.601	0.10	0.20	41.84	42.14	56.00	13.86	QP
6	0.601	0.10	0.20	40.91	41.21	46.00	4.79	AVERAGE
7	1.050	0.10	0.40	41.22	41.72	56.00	14.28	QP
8	1.050	0.10	0.40	39.59	40.09	46.00	5.91	AVERAGE
9	1.400	0.10	0.40	41.47	41.97	56.00	14.03	QP
10	1.400	0.10	0.40	38.20	38.70	46.00	7.30	AVERAGE
11	15.337	0.21	0.70	39.69	40.60	60.00	19.40	QP
12	15.337	0.21	0.70	34.19	35.10	50.00	14.90	AVERAGE

Remarks: 1.Emission Level= LISN Factor + Cable Loss + Reading.
2.If the average limit is met when using a quasi-peak detector ,the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

AUDIX Corp. EMC Laboratory
NO.53-11,Tin-fu Tsun, Lin-kou Hsiang, Taipei County, Taiwan R.O.C. Post Code:24443
Tel:02-26099301 Fax:02-26099303
Email:ttemc@ttemc.com.tw



Site : NO.5 Shielded room Data : 14
Condition : KNW-407(8-1539-3) Phase : LINE
Limit : FCC 15B-B
Env. / Ins. : 27*C/67% ESCS 30 Engineer: Jingo
EUT : Flat Panel Color Monitor M/N:420WN6
Power Rating : 120Vac/60Hz
Test Mode : PIP

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.152	0.20	0.20	33.42	33.82	65.90	32.08	QP
2	0.152	0.20	0.20	30.80	31.20	55.90	24.70	AVERAGE
3	0.250	0.18	0.20	33.12	33.50	61.74	28.24	QP
4	0.250	0.18	0.20	28.99	29.37	51.74	22.37	AVERAGE
5	0.445	0.10	0.20	34.54	34.84	56.96	22.12	QP
6	0.445	0.10	0.20	27.53	27.83	46.96	19.13	AVERAGE
7	0.949	0.10	0.20	34.88	35.18	56.00	20.82	QP
8	0.949	0.10	0.20	30.13	30.43	46.00	15.57	AVERAGE
9	4.965	0.12	0.60	37.04	37.76	56.00	18.24	QP
10	4.965	0.12	0.60	31.54	32.26	46.00	13.74	AVERAGE
11	15.075	0.20	0.70	42.66	43.56	60.00	16.44	QP
12	15.075	0.20	0.70	37.22	38.12	50.00	11.88	AVERAGE

Remarks: 1.Emission Level= LISN Factor + Cable Loss + Reading.
2.If the average limit is met when using a quasi-peak detector ,the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

3. RADIATED EMISSION MEASUREMENT

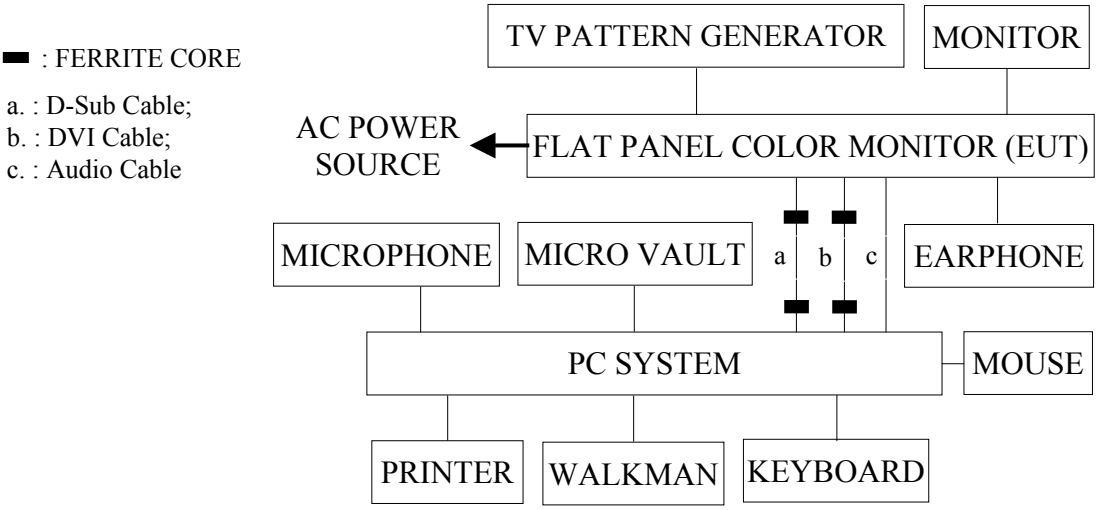
3.1. Test Equipment

The following test equipment was used during the radiated emission measurement：
(No. 4 Open Area Test Site)

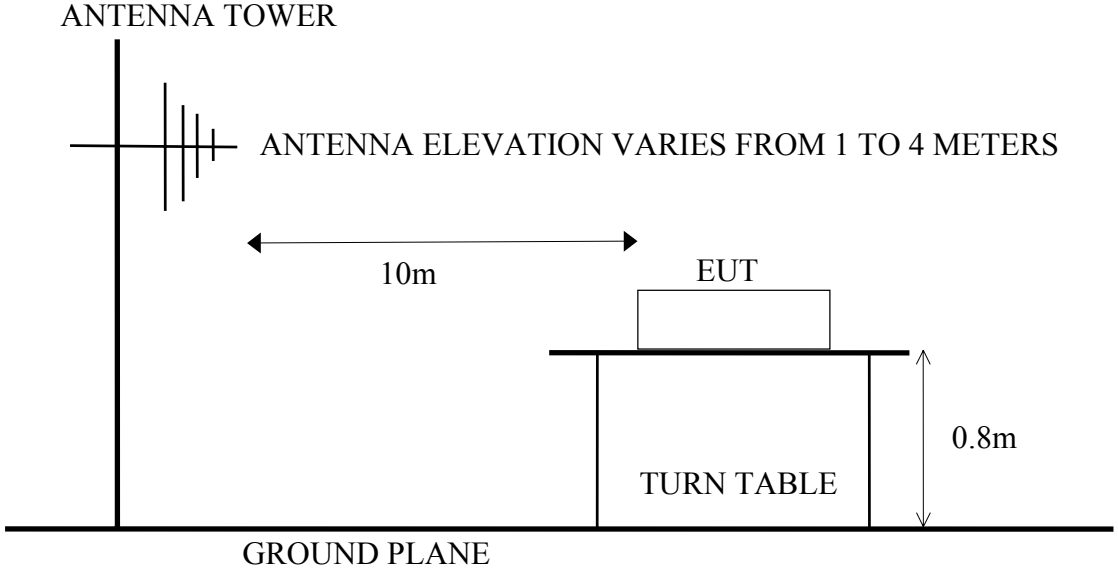
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	HP	8590L	3624A01446	N/A	N/A
2.	Test Receiver	R & S	ESVS10	845165/018	Jun. 09, 05’	Jun. 08, 06’
3.	Amplifier	HP	8447D	1937A02488	N/A	N/A
4.	Biconical Antenna	Chase	VBA6106A	1231	Nov. 15, 04’	Nov. 14, 05’
5.	Log Periodic Antenna	Chase	UPA6109	1020	Nov. 15, 04’	Nov. 14, 05’

3.2. Block Diagram of Test Setup

3.2.1. Block Diagram of connection between EUT and simulators



3.2.2. Open Area Test Site Setup Diagram (10m)



3.3. Radiation Limit (15.109/CISPR 22, 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 (dBμV/m)
30 ~ 230	10	30
230 ~ 1000	10	37

Note： (1) The tighter limit applies at the edge between two frequency bands.

(2) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the E.U.T.

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 were placed on a turn table which was 0.8 meter above ground. The turn table rotate 360 degrees to determine the position of the maximum emission level. EUT was set 10 meters away from the receiving antenna which were 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 at open area test site, bilog antenna at simple anechoic chamber) and dipole antenna were used as receiving antenna. Both horizontal and vertical polarization of the antenna were set on measurement. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.4-2003 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.

All the final readings of measurement from Test Receiver are Quasi-Peak values.

3.7. Radiated Emission Measurement Results

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

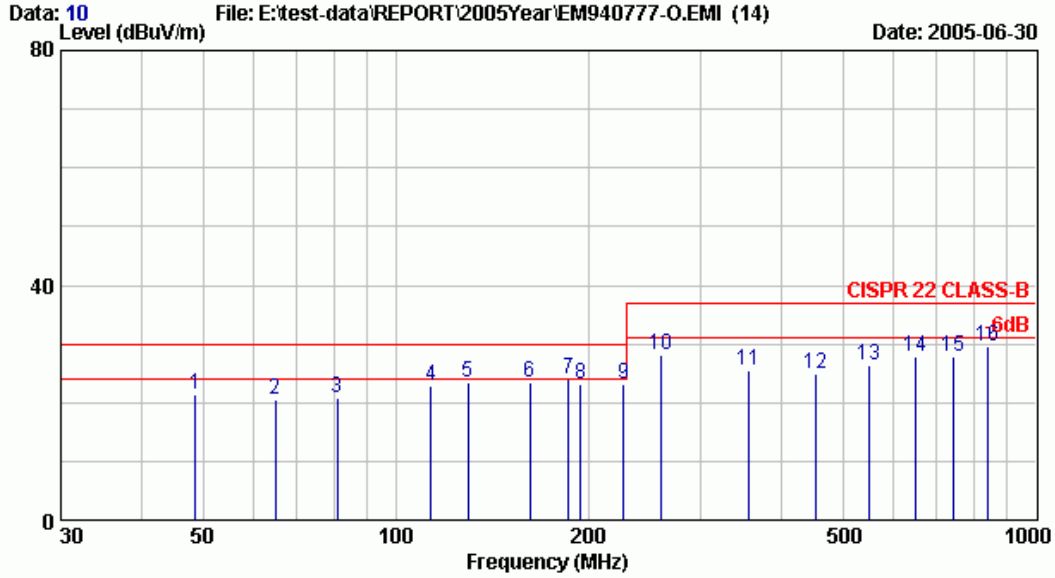
The EUT with following test modes was tested during the radiated testing and all the test results are listed in the following pages.

Test Date： Jun. 30, 2005 Temperature：32℃ Humidity：52%

The details of test modes are as follows：

Mode	Input	Display, Resolution/Frequency	Reference Test Data No.	
			Horizontal	Vertical
1.	D-Sub	"H" Pattern, 640*480/60Hz, 31kHz	# 10	# 9
2.		"H" Pattern, 1280*768/60Hz, 48kHz	# 7	# 8
3.		"H" Pattern, 1360*768/60Hz, 48kHz	# 6	# 5
4.	DVI	"H" Pattern, 640*480/60Hz, 31kHz	# 11	# 12
5.		"H" Pattern, 1280*768/60Hz, 48kHz	# 3	# 4
6.		"H" Pattern, 1360*768/60Hz, 48kHz	# 2	# 1
7.	D-Sub + BNC	PIP- "H" Pattern & "Color Bar" Image	# 14	# 13

AUDIX Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email:ttemc@ttemc.com.tw

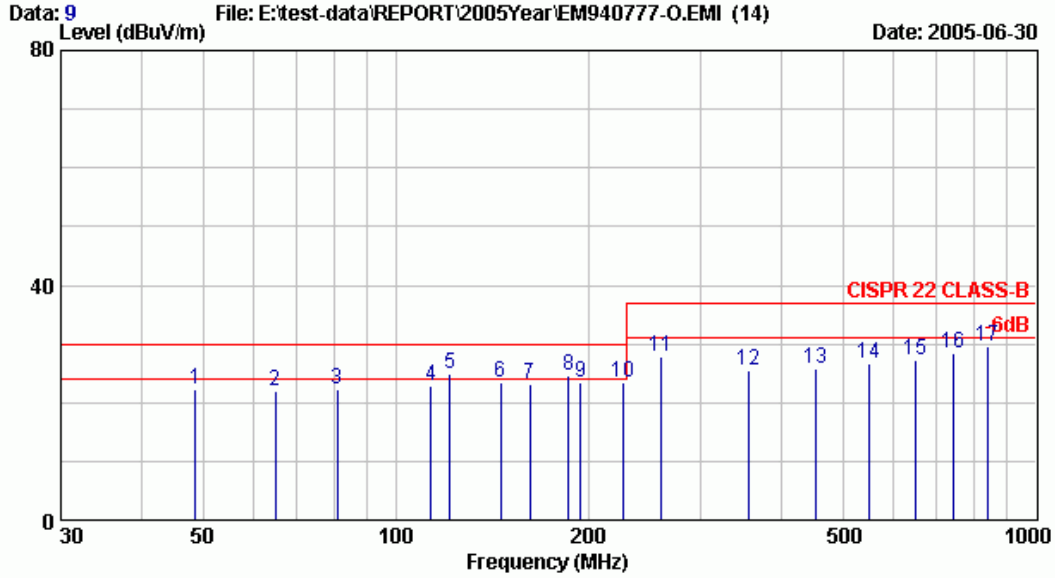


Site no. : NO.4 Open Site Data no. : 10
Dis. / Ant. : 10m VBA6106A/UPA6109 Ant. pol. : HORIZONTAL
Limit : CISPR 22 CLASS-B
Env. / Ins. : 32*C / 52% ESVS 10 Engineer : Tony Chen
EUT : Flat Panel Color Monitor M/N:420WN6
Power Rating : 120Vac / 60Hz
Test Mode : 640*480 / 60Hz;31KHz(D-SUB)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	48.682	16.58	0.72	4.17	21.47	30.00	8.53	
2	64.867	12.90	0.87	6.86	20.63	30.00	9.37	
3	81.062	14.06	0.95	5.86	20.87	30.00	9.13	
4	113.419	18.74	1.10	3.01	22.86	30.00	7.14	
5	129.609	19.93	1.17	2.48	23.58	30.00	6.42	
6	161.988	20.89	1.36	1.16	23.41	30.00	6.59	
7	186.119	21.02	1.59	1.45	24.06	30.00	5.94	
8	194.351	21.23	1.69	0.28	23.19	30.00	6.81	
9	226.720	22.12	1.56	-0.49	23.18	30.00	6.82	
10	259.071	23.59	1.71	2.77	28.07	37.00	8.93	
11	356.173	15.36	2.11	8.16	25.63	37.00	11.37	
12	453.262	16.99	2.37	5.65	25.01	37.00	11.99	
13	550.342	19.55	2.55	4.19	26.29	37.00	10.71	
14	647.444	21.63	2.89	3.38	27.90	37.00	9.10	
15	744.533	22.66	3.16	2.12	27.94	37.00	9.06	
16	841.616	25.04	3.36	1.21	29.61	37.00	7.39	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

AUDIX Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email:ttemc@ttemc.com.tw

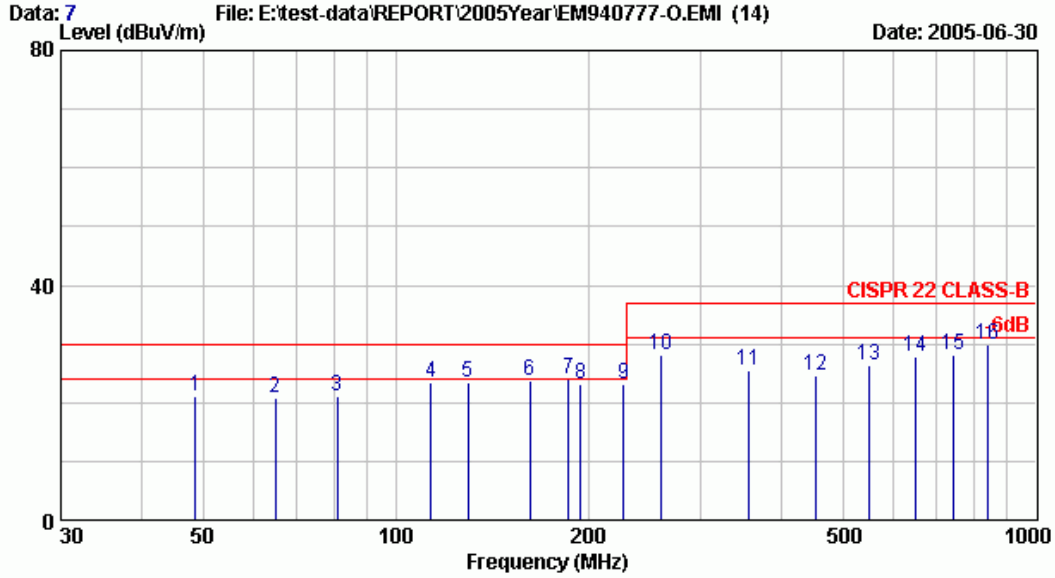


Site no. : NO.4 Open Site Data no. : 9
Dis. / Ant. : 10m VBA6106A/UPA6109 Ant. pol. : VERTICAL
Limit : CISPR 22 CLASS-B
Env. / Ins. : 32*C / 52% ESVS 10 Engineer : Tony Chen
EUT : Flat Panel Color Monitor M/N:420WN6
Power Rating : 120Vac / 60Hz
Test Mode : 640*480 / 60Hz;31KHz(D-SUB)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	48.633	16.33	0.72	5.23	22.28	30.00	7.72	
2	64.855	13.29	0.87	7.90	22.06	30.00	7.94	
3	81.051	14.46	0.95	6.81	22.22	30.00	7.78	
4	113.402	17.50	1.10	4.35	22.96	30.00	7.04	
5	121.566	18.31	1.12	5.44	24.87	30.00	5.13	
6	145.776	20.29	1.35	1.66	23.30	30.00	6.70	
7	161.921	20.92	1.36	0.95	23.23	30.00	6.77	
8	186.125	21.67	1.59	1.41	24.67	30.00	5.33	
9	194.309	22.23	1.69	-0.57	23.35	30.00	6.65	
10	226.640	23.47	1.56	-1.47	23.56	30.00	6.44	
11	259.017	23.65	1.71	2.58	27.94	37.00	9.06	
12	356.117	15.25	2.11	8.10	25.45	37.00	11.55	
13	453.197	17.56	2.37	5.72	25.65	37.00	11.35	
14	550.299	19.81	2.55	4.18	26.53	37.00	10.47	
15	647.361	21.06	2.89	3.43	27.38	37.00	9.62	
16	744.463	23.13	3.16	2.10	28.39	37.00	8.61	
17	841.534	25.14	3.36	1.22	29.72	37.00	7.28	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

AUDIX Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email:ttemc@ttemc.com.tw

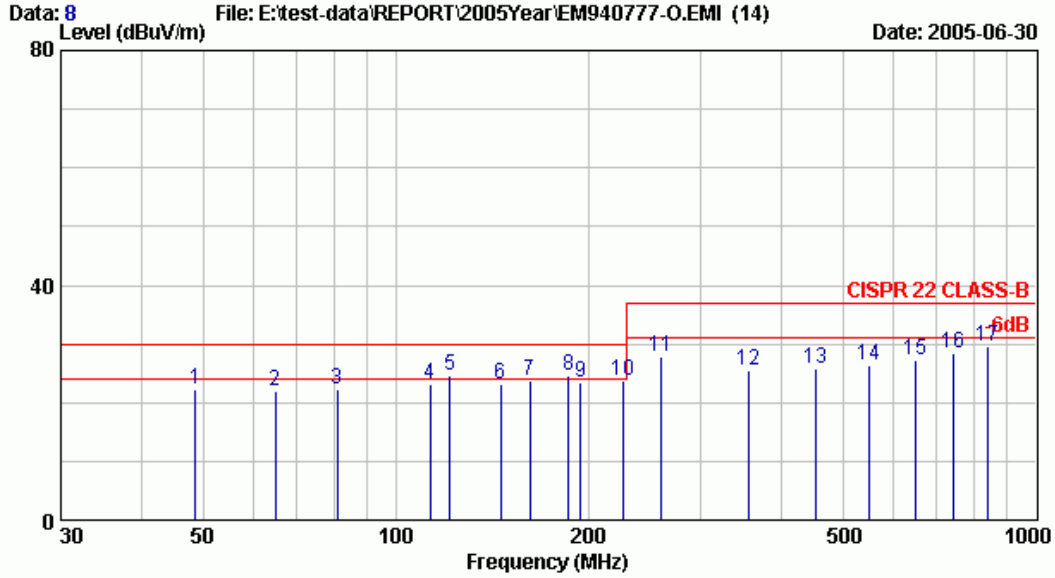


Site no. : NO.4 Open Site Data no. : 7
Dis. / Ant. : 10m VBA6106A/UPA6109 Ant. pol. : HORIZONTAL
Limit : CISPR 22 CLASS-B
Env. / Ins. : 32*C / 52% ESVS 10 Engineer : Tony Chen
EUT : Flat Panel Color Monitor M/N:420WN6
Power Rating : 120Vac / 60Hz
Test Mode : 1280*768 / 60Hz;48KHz(D-SUB)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	48.694	16.58	0.72	3.85	21.15	30.00	8.85	
2	64.881	12.90	0.87	6.97	20.74	30.00	9.26	
3	81.056	14.06	0.95	6.03	21.04	30.00	8.96	
4	113.424	18.74	1.10	3.52	23.37	30.00	6.63	
5	129.609	19.93	1.17	2.28	23.38	30.00	6.62	
6	161.986	20.89	1.36	1.50	23.75	30.00	6.25	
7	186.126	21.02	1.59	1.50	24.12	30.00	5.88	
8	194.344	21.23	1.69	0.30	23.21	30.00	6.79	
9	226.714	22.12	1.56	-0.59	23.08	30.00	6.92	
10	259.090	23.59	1.71	2.71	28.01	37.00	8.99	
11	356.164	15.36	2.11	8.09	25.56	37.00	11.44	
12	453.253	16.99	2.37	5.20	24.56	37.00	12.44	
13	550.348	19.55	2.55	4.23	26.33	37.00	10.67	
14	647.429	21.63	2.89	3.25	27.77	37.00	9.23	
15	744.525	22.66	3.16	2.25	28.07	37.00	8.93	
16	841.606	25.04	3.36	1.35	29.75	37.00	7.25	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

AUDIX Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email:ttemc@ttemc.com.tw

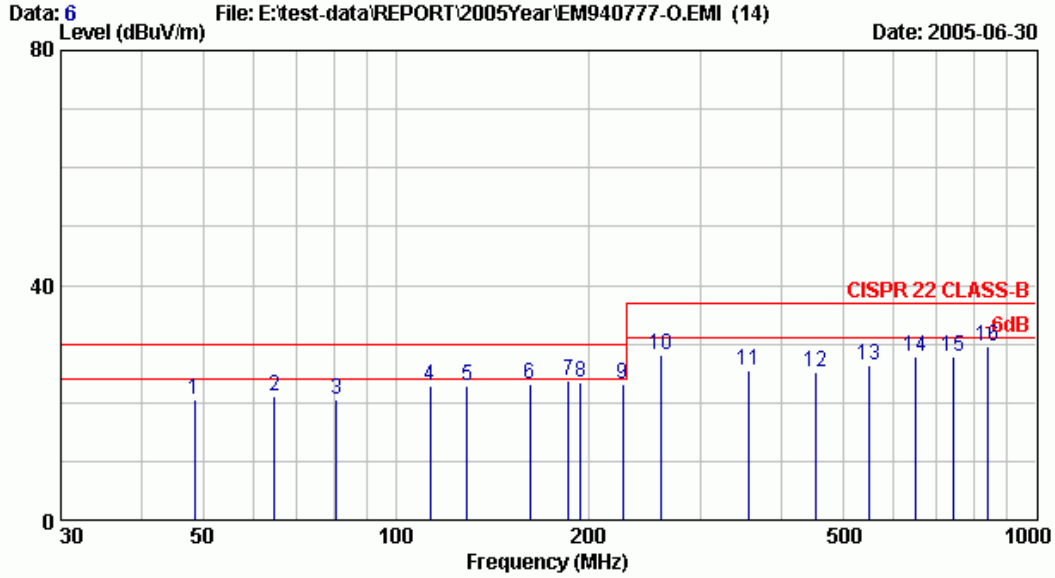


Site no. : NO.4 Open Site Data no. : 8
Dis. / Ant. : 10m VBA6106A/UPA6109 Ant. pol. : VERTICAL
Limit : CISPR 22 CLASS-B
Env. / Ins. : 32*C / 52% ESVS 10 Engineer : Tony Chen
EUT : Flat Panel Color Monitor M/N:420WN6
Power Rating : 120Vac / 60Hz
Test Mode : 1280*768 / 60Hz;48KHz(D-SUB)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	48.628	16.33	0.72	5.14	22.19	30.00	7.81	
2	64.826	13.29	0.87	7.71	21.87	30.00	8.13	
3	81.020	14.46	0.95	7.01	22.42	30.00	7.58	
4	113.377	17.50	1.10	4.48	23.09	30.00	6.91	
5	121.605	18.31	1.12	5.30	24.73	30.00	5.27	
6	145.774	20.29	1.35	1.62	23.26	30.00	6.74	
7	161.936	20.92	1.36	1.37	23.65	30.00	6.35	
8	186.122	21.67	1.59	1.48	24.74	30.00	5.26	
9	194.315	22.23	1.69	-0.50	23.42	30.00	6.58	
10	226.689	23.47	1.56	-1.42	23.61	30.00	6.39	
11	259.046	23.65	1.71	2.60	27.96	37.00	9.04	
12	356.141	15.25	2.11	8.02	25.37	37.00	11.63	
13	453.230	17.56	2.37	5.77	25.70	37.00	11.30	
14	550.313	19.81	2.55	4.15	26.50	37.00	10.50	
15	647.409	21.08	2.89	3.43	27.40	37.00	9.60	
16	744.492	23.13	3.16	2.25	28.54	37.00	8.46	
17	841.586	25.14	3.36	1.22	29.72	37.00	7.28	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

AUDIX Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email:ttemc@ttemc.com.tw

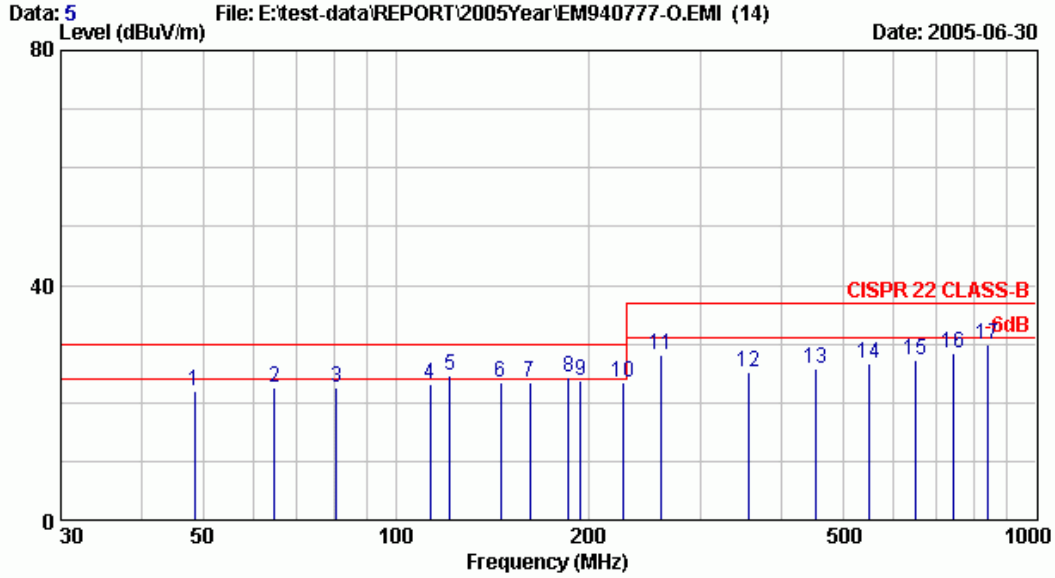


Site no. : NO.4 Open Site Data no. : 6
Dis. / Ant. : 10m VBA6106A/UPA6109 Ant. pol. : HORIZONTAL
Limit : CISPR 22 CLASS-B
Env. / Ins. : 32*C / 52% ESVS 10 Engineer : Tony Chen
EUT : Flat Panel Color Monitor M/N:420WN6
Power Rating : 120Vac / 60Hz
Test Mode : 1360*768 / 60Hz;48KHz(D-SUB)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	48.544	16.58	0.72	3.24	20.54	30.00	9.46	
2	64.752	12.90	0.87	7.31	21.08	30.00	8.92	
3	80.925	13.98	0.95	5.69	20.62	30.00	9.38	
4	113.292	18.74	1.10	3.12	22.96	30.00	7.04	
5	129.466	19.93	1.17	1.68	22.77	30.00	7.23	
6	161.847	20.89	1.36	0.94	23.19	30.00	6.81	
7	186.123	21.02	1.59	1.22	23.83	30.00	6.17	
8	194.218	21.23	1.69	0.44	23.35	30.00	6.65	
9	226.590	22.12	1.56	-0.49	23.18	30.00	6.82	
10	258.957	23.59	1.71	2.78	28.08	37.00	8.92	
11	356.033	15.36	2.11	8.08	25.55	37.00	11.45	
12	453.127	16.99	2.37	5.71	25.07	37.00	11.93	
13	550.203	19.55	2.55	4.35	26.45	37.00	10.55	
14	647.292	21.61	2.89	3.38	27.89	37.00	9.11	
15	744.381	22.48	3.16	2.18	27.82	37.00	9.18	
16	841.484	25.04	3.36	1.10	29.50	37.00	7.50	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

AUDIX Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email:ttemc@ttemc.com.tw

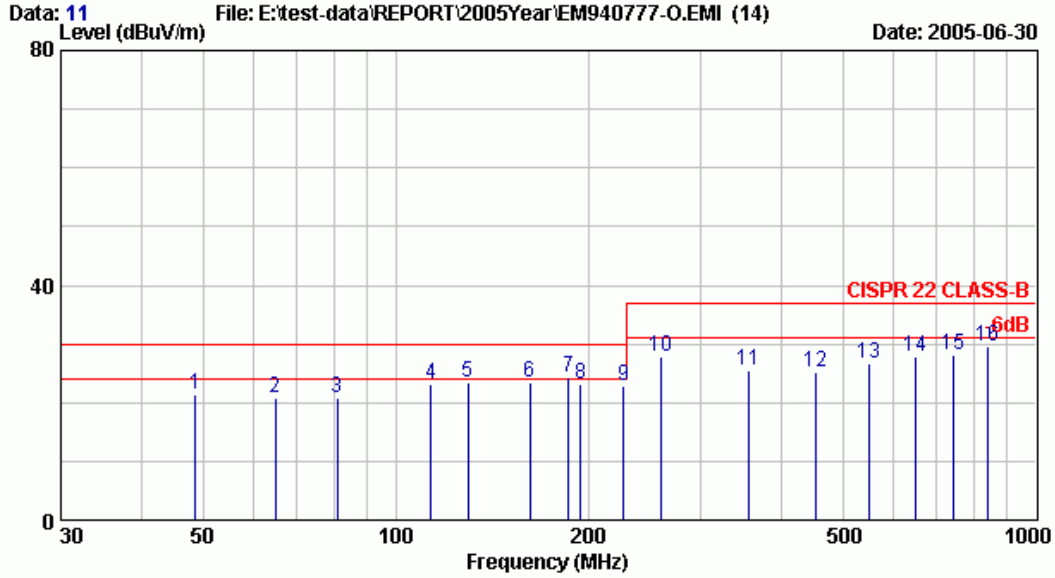


Site no. : NO.4 Open Site Data no. : 5
Dis. / Ant. : 10m VBA6106A/UPA6109 Ant. pol. : VERTICAL
Limit : CISPR 22 CLASS-B
Env. / Ins. : 32*C / 52% ESVS 10 Engineer : Tony Chen
EUT : Flat Panel Color Monitor M/N:420WN6
Power Rating : 120Vac / 60Hz
Test Mode : 1360*768 / 60Hz;48KHz(D-SUB)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	48.470	16.33	0.72	4.91	21.95	30.00	8.05	
2	64.658	13.29	0.87	8.28	22.44	30.00	7.56	
3	80.829	14.35	0.95	7.29	22.59	30.00	7.41	
4	113.205	17.50	1.10	4.68	23.29	30.00	6.71	
5	121.586	18.31	1.12	5.30	24.73	30.00	5.27	
6	145.770	20.29	1.35	1.66	23.30	30.00	6.70	
7	161.870	20.92	1.36	1.30	23.58	30.00	6.42	
8	186.122	21.67	1.59	1.20	24.46	30.00	5.54	
9	194.254	22.23	1.69	-0.21	23.71	30.00	6.29	
10	226.601	23.47	1.56	-1.68	23.35	30.00	6.65	
11	258.976	23.65	1.71	2.71	28.07	37.00	8.93	
12	356.057	15.25	2.11	7.98	25.33	37.00	11.67	
13	453.153	17.56	2.37	5.83	25.76	37.00	11.24	
14	550.233	19.81	2.55	4.30	26.65	37.00	10.35	
15	647.335	21.06	2.89	3.43	27.38	37.00	9.62	
16	744.397	23.04	3.16	2.18	28.38	37.00	8.62	
17	841.488	25.14	3.36	1.29	29.79	37.00	7.21	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

AUDIX Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email:ttemc@ttemc.com.tw

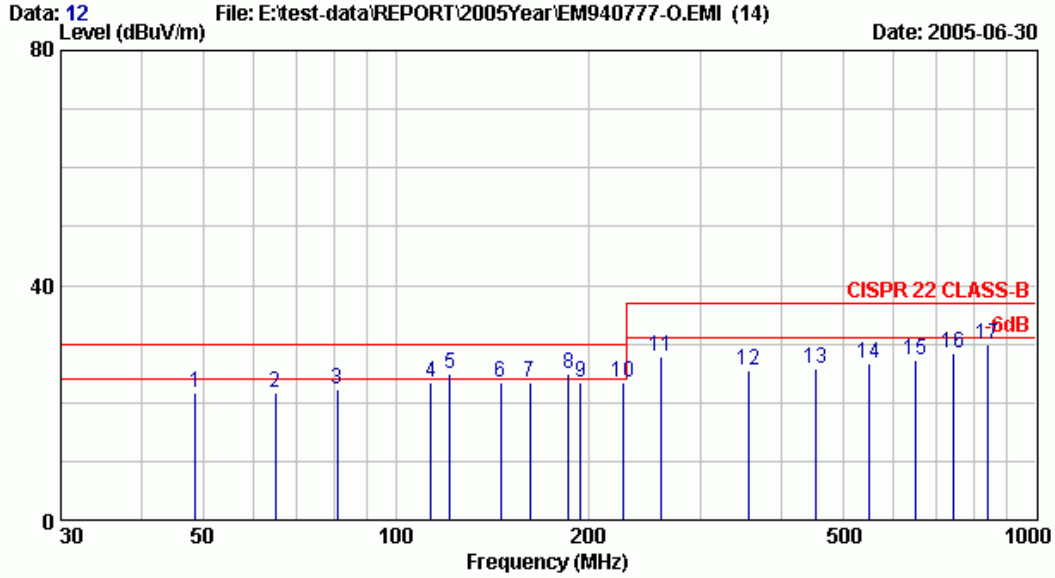


Site no. : NO.4 Open Site Data no. : 11
Dis. / Ant. : 10m VBA6106A/UPA6109 Ant. pol. : HORIZONTAL
Limit : CISPR 22 CLASS-B
Env. / Ins. : 32*C / 52% ESVS 10 Engineer : Tony Chen
EUT : Flat Panel Color Monitor M/N:420WN6
Power Rating : 120Vac / 60Hz
Test Mode : 640*480 / 60Hz;31KHz(DVI)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	48.664	16.58	0.72	4.16	21.46	30.00	8.54	
2	64.881	12.90	0.87	6.93	20.70	30.00	9.30	
3	81.054	14.06	0.95	5.90	20.91	30.00	9.09	
4	113.406	18.74	1.10	3.31	23.16	30.00	6.84	
5	129.595	19.93	1.17	2.39	23.49	30.00	6.51	
6	161.943	20.89	1.36	1.17	23.42	30.00	6.58	
7	186.128	21.02	1.59	1.59	24.21	30.00	5.79	
8	194.315	21.23	1.69	0.21	23.12	30.00	6.88	
9	226.692	22.12	1.56	-0.69	22.98	30.00	7.02	
10	259.048	23.59	1.71	2.58	27.88	37.00	9.12	
11	356.146	15.36	2.11	7.92	25.39	37.00	11.61	
12	453.249	16.99	2.37	5.97	25.33	37.00	11.67	
13	550.325	19.55	2.55	4.51	26.61	37.00	10.39	
14	647.414	21.63	2.89	3.26	27.78	37.00	9.22	
15	744.503	22.66	3.16	2.21	28.03	37.00	8.97	
16	841.597	25.04	3.36	1.29	29.69	37.00	7.31	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

AUDIX Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email:ttemc@ttemc.com.tw

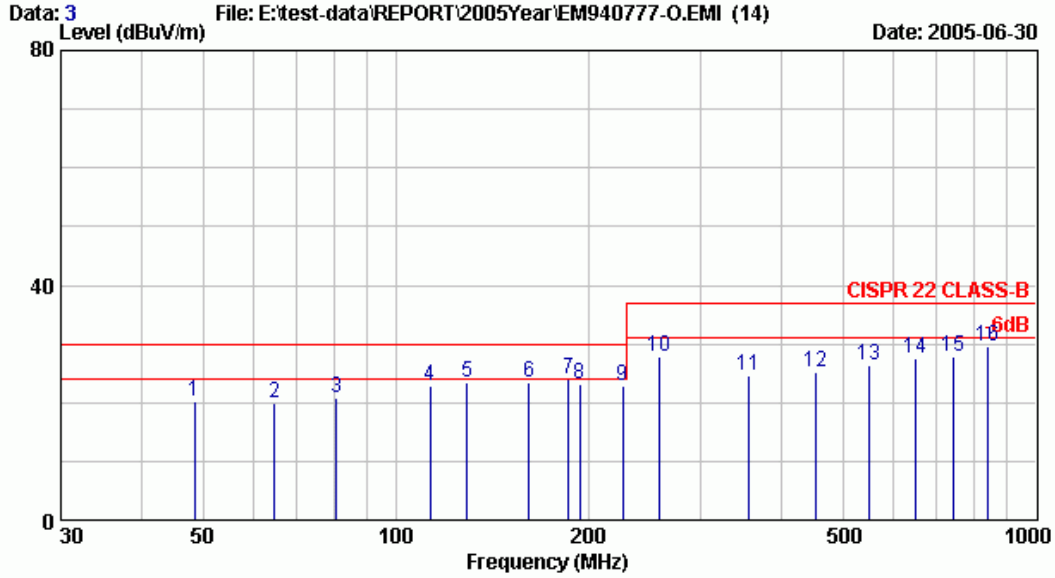


Site no. : NO.4 Open Site Data no. : 12
Dis. / Ant. : 10m VBA6106A/UPA6109 Ant. pol. : VERTICAL
Limit : CISPR 22 CLASS-B
Env. / Ins. : 32*C / 52% ESVS 10 Engineer : Tony Chen
EUT : Flat Panel Color Monitor M/N:420WN6
Power Rating : 120Vac / 60Hz
Test Mode : 640*480 / 60Hz;31KHz(DVI)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	48.704	16.33	0.72	4.75	21.80	30.00	8.20	
2	64.873	13.29	0.87	7.57	21.73	30.00	8.27	
3	81.058	14.46	0.95	6.93	22.34	30.00	7.66	
4	113.416	17.50	1.10	4.91	23.52	30.00	6.48	
5	121.604	18.31	1.12	5.48	24.90	30.00	5.10	
6	145.786	20.29	1.35	1.70	23.34	30.00	6.66	
7	161.949	20.92	1.36	1.15	23.43	30.00	6.57	
8	186.124	21.67	1.59	1.53	24.79	30.00	5.21	
9	194.328	22.23	1.69	-0.60	23.32	30.00	6.68	
10	226.671	23.47	1.56	-1.55	23.48	30.00	6.52	
11	259.054	23.65	1.71	2.57	27.93	37.00	9.07	
12	356.158	15.25	2.11	8.09	25.44	37.00	11.56	
13	453.230	17.56	2.37	5.93	25.86	37.00	11.14	
14	550.327	19.81	2.55	4.45	26.80	37.00	10.20	
15	647.405	21.08	2.89	3.25	27.22	37.00	9.78	
16	744.520	23.13	3.16	2.08	28.37	37.00	8.63	
17	841.579	25.14	3.36	1.33	29.83	37.00	7.17	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

AUDIX Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email:ttemc@ttemc.com.tw

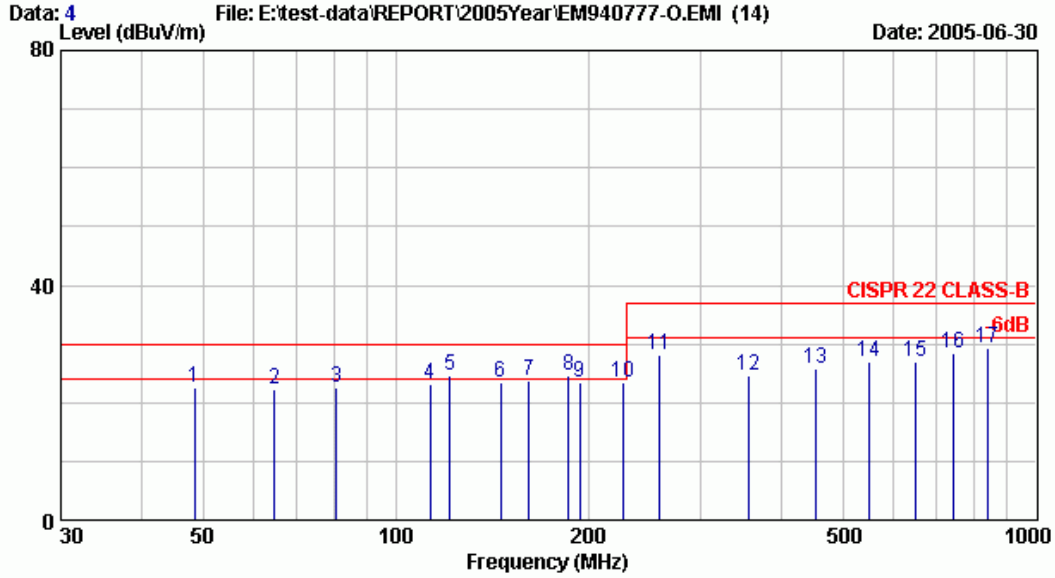


Site no. : NO.4 Open Site Data no. : 3
Dis. / Ant. : 10m VBA6106A/UPA6109 Ant. pol. : HORIZONTAL
Limit : CISPR 22 CLASS-B
Env. / Ins. : 32*C / 52% ESVS 10 Engineer : Tony Chen
EUT : Flat Panel Color Monitor M/N:420WN6
Power Rating : 120Vac / 60Hz
Test Mode : 1280*768 / 60Hz;48KHz(DVI)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	48.535	16.58	0.72	2.98	20.28	30.00	9.72	
2	64.708	12.90	0.87	6.18	19.95	30.00	10.05	
3	80.880	13.98	0.95	5.74	20.67	30.00	9.33	
4	113.249	18.74	1.10	3.06	22.91	30.00	7.09	
5	129.425	19.82	1.17	2.36	23.34	30.00	6.66	
6	161.789	20.89	1.36	1.13	23.38	30.00	6.62	
7	186.125	21.02	1.59	1.52	24.13	30.00	5.87	
8	194.137	21.23	1.69	0.28	23.19	30.00	6.81	
9	226.525	22.12	1.56	-0.83	22.84	30.00	7.16	
10	258.882	23.59	1.71	2.65	27.95	37.00	9.05	
11	355.991	15.36	2.11	7.16	24.63	37.00	12.37	
12	453.079	16.99	2.37	5.74	25.10	37.00	11.90	
13	550.164	19.55	2.55	4.39	26.49	37.00	10.51	
14	647.256	21.61	2.89	3.13	27.64	37.00	9.36	
15	744.337	22.48	3.16	2.17	27.81	37.00	9.19	
16	841.407	25.04	3.36	1.28	29.68	37.00	7.32	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

AUDIX Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email:ttemc@ttemc.com.tw

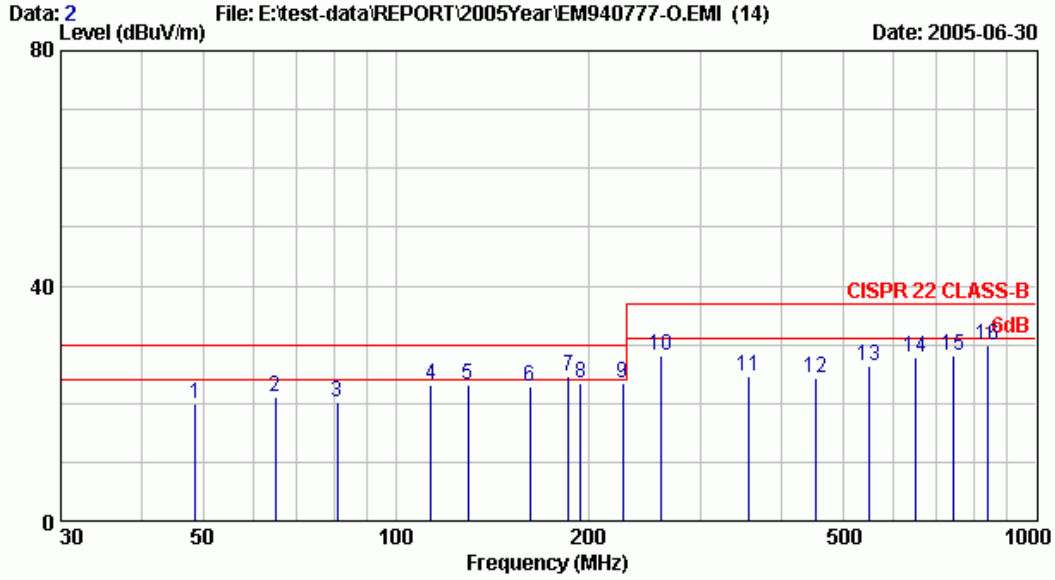


Site no. : NO.4 Open Site Data no. : 4
Dis. / Ant. : 10m VBA6106A/UPA6109 Ant. pol. : VERTICAL
Limit : CISPR 22 CLASS-B
Env. / Ins. : 32*C / 52% ESVS 10 Engineer : Tony Chen
EUT : Flat Panel Color Monitor M/N:420WN6
Power Rating : 120Vac / 60Hz
Test Mode : 1280*768 / 60Hz;48KHz(DVI)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	48.520	16.33	0.72	5.59	22.63	30.00	7.37	
2	64.689	13.29	0.87	8.04	22.20	30.00	7.80	
3	80.877	14.35	0.95	7.35	22.65	30.00	7.35	
4	113.226	17.50	1.10	4.60	23.21	30.00	6.79	
5	121.598	18.31	1.12	5.31	24.74	30.00	5.26	
6	145.775	20.29	1.35	1.70	23.34	30.00	6.66	
7	161.754	20.92	1.36	1.38	23.65	30.00	6.35	
8	186.126	21.67	1.59	1.37	24.63	30.00	5.37	
9	194.124	22.23	1.69	-0.54	23.38	30.00	6.62	
10	226.494	23.47	1.56	-1.63	23.40	30.00	6.60	
11	258.840	23.65	1.71	2.72	28.08	37.00	8.92	
12	355.932	15.25	2.11	7.34	24.69	37.00	12.31	
13	453.021	17.56	2.37	5.78	25.71	37.00	11.29	
14	550.137	19.81	2.55	4.54	26.89	37.00	10.11	
15	647.211	21.06	2.89	3.12	27.07	37.00	9.93	
16	744.325	23.04	3.16	2.22	28.42	37.00	8.58	
17	841.416	25.14	3.36	0.89	29.39	37.00	7.61	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

AUDIX Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email:ttemc@ttemc.com.tw

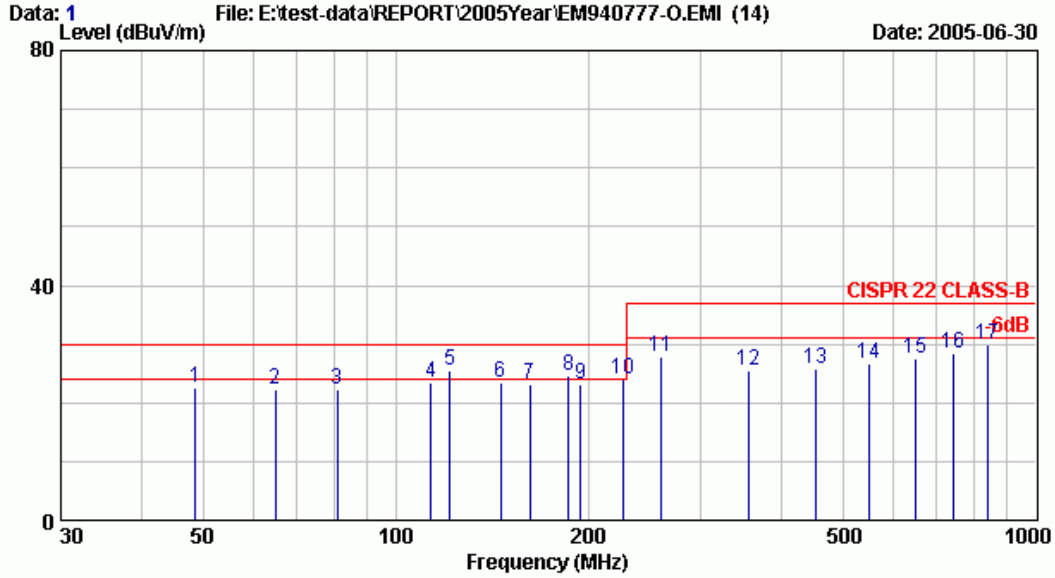


Site no. : NO.4 Open Site Data no. : 2
Dis. / Ant. : 10m VBA6106A/UPA6109 Ant. pol. : HORIZONTAL
Limit : CISPR 22 CLASS-B
Env. / Ins. : 32*C / 52% ESVS 10 Engineer : Tony Chen
EUT : Flat Panel Color Monitor M/N:420WN6
Power Rating : 120Vac / 60Hz
Test Mode : 1360*768 / 60Hz;48KHz(DVI)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	48.669	16.58	0.72	2.77	20.07	30.00	9.93	
2	64.835	12.90	0.87	7.35	21.12	30.00	8.88	
3	81.024	14.06	0.95	5.34	20.35	30.00	9.65	
4	113.413	18.74	1.10	3.18	23.03	30.00	6.97	
5	129.554	19.93	1.17	2.18	23.27	30.00	6.73	
6	161.913	20.89	1.36	0.58	22.83	30.00	7.17	
7	186.122	21.02	1.59	1.92	24.53	30.00	5.47	*
8	194.291	21.23	1.69	0.46	23.38	30.00	6.62	
9	226.659	22.12	1.56	-0.19	23.49	30.00	6.51	
10	259.030	23.59	1.71	2.80	28.10	37.00	8.90	
11	356.104	15.36	2.11	7.23	24.70	37.00	12.30	
12	453.208	16.99	2.37	5.04	24.40	37.00	12.60	
13	550.284	19.55	2.55	4.29	26.39	37.00	10.61	
14	647.380	21.61	2.89	3.25	27.75	37.00	9.25	
15	744.475	22.66	3.16	2.20	28.02	37.00	8.98	
16	841.572	25.04	3.36	1.36	29.76	37.00	7.24	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.
3. **The worst emission was detected at 186.122MHz with corrected signal level of 24.53dBμV/m (limit was 30dBμV/m) when the antenna was at horizontal polarization and was at 4m high and the turn table was at 105°.**
4. **0°is the table front facing the antenna. Degree is calculated from 0°clockwise facing the antenna.**

AUDIX Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email:ttemc@ttemc.com.tw

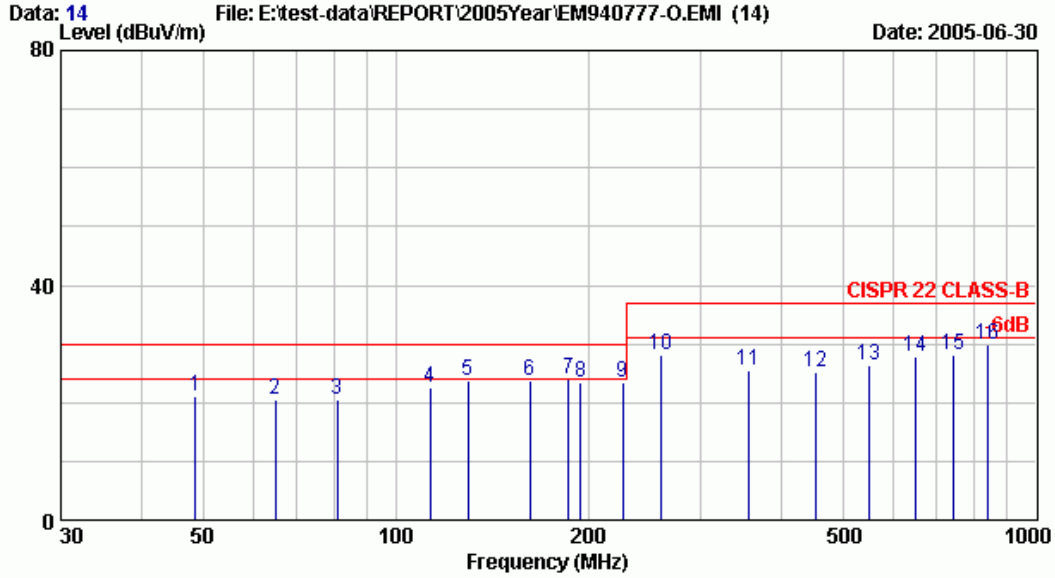


Site no. : NO.4 Open Site Data no. : 1
Dis. / Ant. : 10m VBA6106A/UPA6109 Ant. pol. : VERTICAL
Limit : CISPR 22 CLASS-B
Env. / Ins. : 32*C / 52% ESVS 10 Engineer : Tony Chen
EUT : Flat Panel Color Monitor M/N:420WN6
Power Rating : 120Vac / 60Hz
Test Mode : 1360*768 / 60Hz;48KHz(DVI)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	48.713	16.33	0.72	5.51	22.56	30.00	7.44	
2	64.886	13.29	0.87	8.06	22.22	30.00	7.78	
3	81.062	14.46	0.95	6.74	22.15	30.00	7.85	
4	113.429	17.50	1.10	4.85	23.46	30.00	6.54	
5	121.591	18.31	1.12	6.00	25.42	30.00	4.58	*
6	145.800	20.29	1.35	1.75	23.39	30.00	6.61	
7	161.972	20.92	1.36	0.96	23.24	30.00	6.76	
8	186.121	21.67	1.59	1.25	24.51	30.00	5.49	
9	194.352	22.23	1.69	-0.74	23.18	30.00	6.82	
10	226.700	23.47	1.56	-0.88	24.15	30.00	5.85	
11	259.078	23.65	1.71	2.52	27.88	37.00	9.12	
12	356.183	15.25	2.11	8.01	25.36	37.00	11.64	
13	453.268	17.56	2.37	5.91	25.84	37.00	11.16	
14	550.360	19.81	2.55	4.37	26.72	37.00	10.28	
15	647.445	21.08	2.89	3.53	27.50	37.00	9.50	
16	744.548	23.13	3.16	2.27	28.56	37.00	8.44	
17	841.633	25.14	3.36	1.35	29.85	37.00	7.15	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.
3. **The worst emission was detected at 121.591MHz with corrected signal level of 25.42dBμV/m (limit was 30dBμV/m) when the antenna was at vertical polarization and was at 1m high and the turn table was at 240˚.**
4. **0˚is the table front facing the antenna. Degree is calculated from 0 ˚clockwise facing the antenna.**

AUDIX Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email:ttemc@ttemc.com.tw

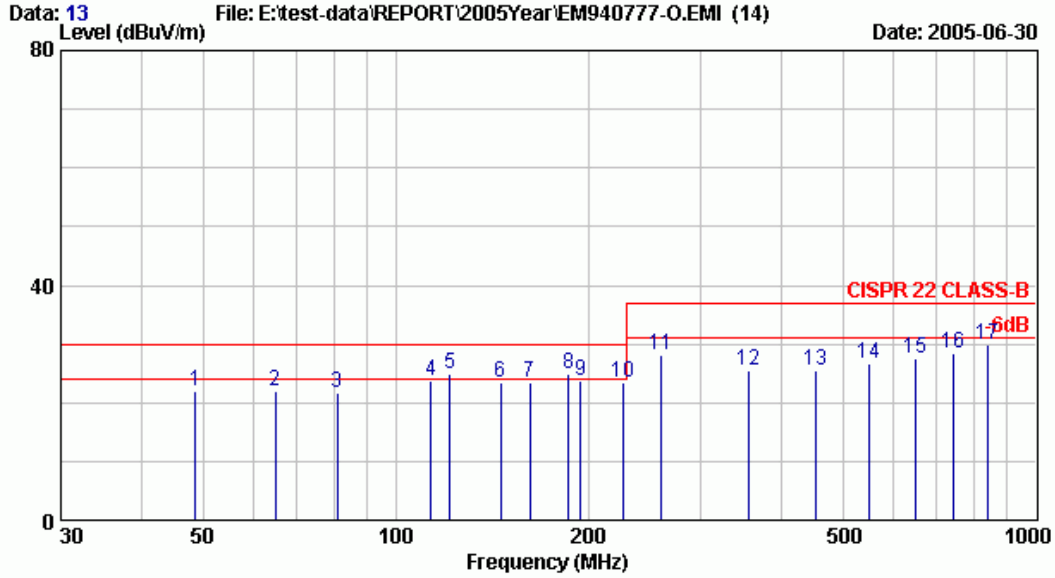


Site no. : NO.4 Open Site Data no. : 14
Dis. / Ant. : 10m VBA6106A/UPA6109 Ant. pol. : HORIZONTAL
Limit : CISPR 22 CLASS-B
Env. / Ins. : 32*C / 52% ESVS 10 Engineer : Tony Chen
EUT : Flat Panel Color Monitor M/N:420WN6
Power Rating : 120Vac / 60Hz
Test Mode : PIP

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	48.631	16.58	0.72	3.86	21.16	30.00	8.84	
2	64.813	12.90	0.87	6.74	20.51	30.00	9.49	
3	81.017	14.06	0.95	5.56	20.57	30.00	9.43	
4	113.359	18.74	1.10	2.79	22.64	30.00	7.36	
5	129.547	19.93	1.17	2.64	23.74	30.00	6.26	
6	161.878	20.89	1.36	1.38	23.63	30.00	6.37	
7	186.121	21.02	1.59	1.52	24.13	30.00	5.87	
8	194.254	21.23	1.69	0.67	23.58	30.00	6.42	
9	226.623	22.12	1.56	-0.26	23.41	30.00	6.59	
10	258.953	23.59	1.71	2.72	28.02	37.00	8.98	
11	356.056	15.36	2.11	8.01	25.48	37.00	11.52	
12	453.130	16.99	2.37	5.85	25.21	37.00	11.79	
13	550.229	19.55	2.55	4.39	26.49	37.00	10.51	
14	647.286	21.61	2.89	3.45	27.95	37.00	9.05	
15	744.392	22.48	3.16	2.44	28.09	37.00	8.91	
16	841.467	25.04	3.36	1.36	29.76	37.00	7.24	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

AUDIX Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email:ttemc@ttemc.com.tw



Site no. : NO.4 Open Site Data no. : 13
Dis. / Ant. : 10m VBA6106A/UPA6109 Ant. pol. : VERTICAL
Limit : CISPR 22 CLASS-B
Env. / Ins. : 32*C / 52% ESVS 10 Engineer : Tony Chen
EUT : Flat Panel Color Monitor M/N:420WN6
Power Rating : 120Vac / 60Hz
Test Mode : PIP

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	48.705	16.33	0.72	4.80	21.85	30.00	8.15	
2	64.870	13.29	0.87	7.86	22.02	30.00	7.98	
3	81.064	14.46	0.95	6.28	21.69	30.00	8.31	
4	113.411	17.50	1.10	5.02	23.63	30.00	6.37	
5	121.622	18.31	1.12	5.48	24.91	30.00	5.09	
6	145.786	20.29	1.35	1.91	23.55	30.00	6.45	
7	161.974	20.92	1.36	1.10	23.38	30.00	6.62	
8	186.124	21.67	1.59	1.68	24.94	30.00	5.06	
9	194.324	22.23	1.69	-0.21	23.71	30.00	6.29	
10	226.695	23.47	1.56	-1.70	23.33	30.00	6.67	
11	259.039	23.65	1.71	2.66	28.02	37.00	8.98	
12	356.137	15.25	2.11	8.04	25.39	37.00	11.61	
13	453.212	17.56	2.37	5.69	25.62	37.00	11.38	
14	550.301	19.81	2.55	4.45	26.80	37.00	10.20	
15	647.405	21.06	2.89	3.67	27.62	37.00	9.38	
16	744.494	23.13	3.16	2.18	28.47	37.00	8.53	
17	841.569	25.14	3.36	1.27	29.77	37.00	7.23	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

4. DEVIATION TO TEST SPECIFICATIONS

[NONE]