

APPLICATION FOR CERTIFICATION
On Behalf of

Philips Electronics Industries (Taiwan) Ltd.
LCD TV

Model No. : 32MF605W/17

Brand : Philips Magnavox

FCC ID: A3KM139

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,
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Date of Test : Dec. 22 ~ 28, 2004
Date of Report : Jan. 04, 2005

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TEST REPORT CERTIFICATION

Applicant : Philips Electronics Industries (Taiwan) Ltd.
 Manufacturer : Philips Electronics Industries (Taiwan) Ltd.
 Factory : Philips Consumer Electronics Co., of Suzhou Ltd.
 EUT Description : LCD TV
 FCC ID : A3KM139
 (A) MODEL NO. : 32MF605W/17
 (B) SERIAL NO. : (1)TY0404768 (2)TY0404770
 (C) BRAND NAME : Philips Magnavox
 (D) POWER SUPPLY : AC 100-240V~, 60-50Hz
 (E) TEST VOLTAGE : AC 120V/60Hz

Measurement Standards and Methods Used :

FCC CFR 47 Part15 / Jul. 2004 and CISPR 22/1997 and 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 section §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 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 : Dec. 22 ~ 28 , 2004

Prepared by : Julie Hsu Jan. 06.2005
(Julie Hsu/Assistant Administrator)

Test Engineer : Ben Cheng Jan. 06.2005
(Ben Cheng/Section Manager)

Approve & Authorized Signer : Leon Liu Jan. 6 2005
(Leon Liu/Senior Manager)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Description	:	LCD TV (The DVI IN & TV Tuner & AV Functions & HD Functions are not available in this test report)
Model Number	:	32MF605W/17
Serial Number	:	(1)TY0404768 (2)TY0404770
FCC ID.	:	A3KM139
Brand	:	Philips Magnavox
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.
Factory	:	Philips Consumer Electronics Co., of Suzhou Ltd. No. 161, Zhujiang Road, New District, Suzhou 215011, PROC
LCD Panel	:	(1)LG Philips, Type No. LC320W01 (2)CPT, Type No. CLAA320WA01
Scanning Frequency	:	Horizontal: 30-50kHz Vertical: 56-63Hz
Max Resolution	:	1280*768 / 60Hz
D-Sub Data Cable	:	Shielded, Detachable, 1.8m Bonded two ferrite cores
Power Cord	:	Non-Shielded, Detachable, 1.8m
Data of Receipt of Sample	:	Dec. 16, 2004
Date of Test	:	Dec. 22 ~ 28, 2004

1.2. Tested Supporting System Details

1.2.1. PERSONAL COMPUTER

Model Name	:	Dell Dim 4600PC
Model Number	:	DMC
Serial Number	:	5DYW91S
FCC ID	:	By DoC
BSMI ID	:	R33002
Manufacturer	:	DELL
VGA Card	:	Nvidia FX5200
Audio Cable	:	Non-Shielded, Detachable, 1.0m
Power Cord	:	Non-Shielded, Detachable, 1.8m

1.2.2. KEYBOARD

Part Number	:	09C487
Serial Number	:	CN-09C487-38844-193-7480
Manufacturer	:	DELL
Data Cable	:	Shielded, Undetachable, 1.8m

1.2.3. MODEM

Model Number	:	DM-1414
Serial Number	:	980034394
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. PS2 MOUSE

Part Number	:	6U220
Serial Number	:	85T841-0000
FCC ID	:	LZA31578847
Manufacturer	:	DELL
Data Cable	:	Non-Shielded, Undetachable, 1.8m

1.2.5. DOT MATRIX PRINTER

Model Number	:	KX-P2135
Serial Number	:	8DMCNC02144
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

1.2.6. MICROPHONE

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

1.2.7. WALKMAN

Model Number	:	RQ-P35LT-K
Serial Number	:	HA08717
Manufacturer	:	Panasonic
Data Cable	:	Non-Shielded, Detachable, 1.8m

1.2.8. MICRO VAULT (USB Storage Media)

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

1.2.9. EARPHONE (Link to EUT)

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

1.2.10. COLOUR TV PATTERN GENERATOR (Link to EUT)

Model Number	:	PM5515
Type Number	:	PM5515G
Manufacturer	:	Philips
Coaxial Cable	:	Shielded, Detachable, 2m
Power Cord	:	Non-Shielded, Detachable, 1.8m

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 : **No. 3 Shielded Room**
(C3/R4) **No. 4 Open Area Test Site**
No. 67-4, Tin-Fu Tsun, Lin-Kou Hsiang,
Taipei Hsien 24443, Taiwan, R.O.C.
Mar. 31, 2003 Renewal 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), (V/m)
Conduction Test	150kHz~30MHz	±1.73dB
Radiation Test (Distance: 10m)	30MHz~300MHz	±2.99dB
	300MHz~1000MHz	±2.73dB

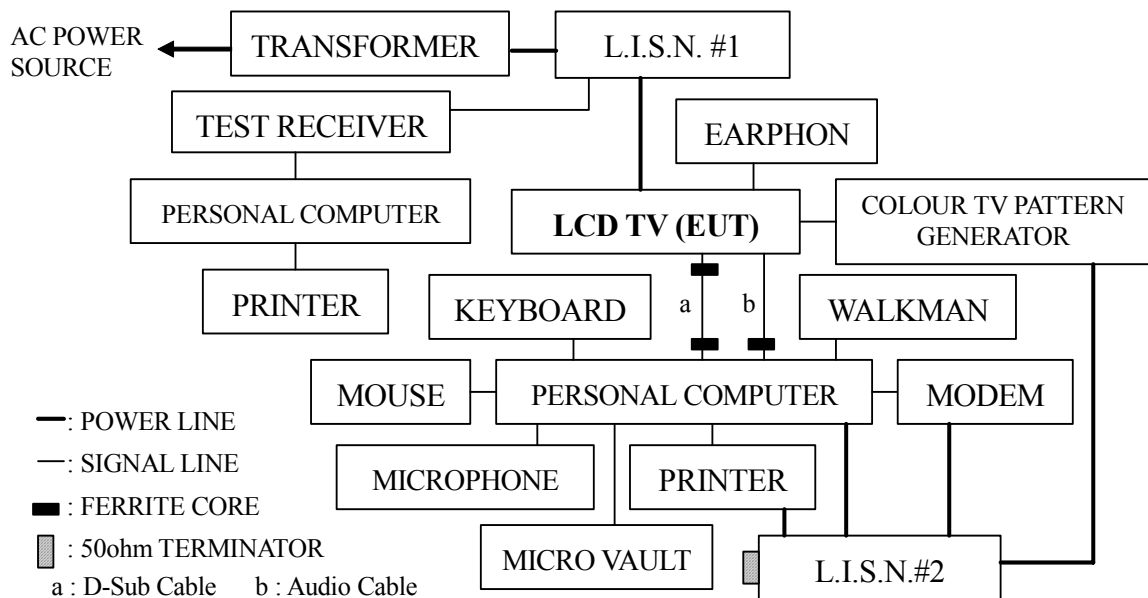
2. CONDUCTED DISTURBANCE MEASUREMENT

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	ESCS 30	825442/020	Aug.05, 04'	Aug.04, 05'
2.	L.I.S.N. # 1	Kyoritsu	KNW-407	8-1370-10	Jun.05, 04'	Jun.04, 05'
3.	L.I.S.N. # 2	Kyoritsu	KNW-407	8-1370-9	Jun.05, 04'	Jun.04, 05'
4.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100041	Apr.28, 04'	Apr.27, 05'

2.2. Block Diagram of Test Setup



2.3. Conducted Powerline 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. LCD TV (EUT) #1

Model Number	:	32MF605W/17
Serial Number	:	TY0404768
FCC ID	:	A3KM139
Manufacturer	:	Philips Electronics Industries (Taiwan) Ltd.
LCD Panel	:	LG Philips, Type No. LC320W01
Scanning Frequency	:	Horizontal: 30-50kHz Vertical: 56-63Hz
Max Resolution	:	1280*768 / 60Hz
D-Sub Data Cable	:	Shielded, Detachable, 1.8m Bonded two ferrite cores
Power Cord	:	Non-Shielded, Detachable, 1.8m

2.4.2. LCD TV (EUT) #2

Model Number	:	32MF605W/17
Serial Number	:	TY0404770
FCC ID	:	A3KM139
Manufacturer	:	Philips Electronics Industries (Taiwan) Ltd.
LCD Panel	:	CPT, Type No. CLAA320WA01
Scanning Frequency	:	Horizontal: 30-50kHz Vertical: 56-63Hz
Max Resolution	:	1280*768 / 60Hz
D-Sub Data Cable	:	Shielded, Detachable, 1.8m Bonded two ferrite cores
Power Cord	:	Non-Shielded, Detachable, 1.8m

2.4.3. 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. The PC System running the test program "Testpat V1.8" by Windows XP and the screen of EUT displayed "H" pattern by EUT's resolution via D-Sub Input.
- 2.5.5. Set the PC System to send the "H" pattern to EUT via D-Sub Input, and send the "Color Bar" image to EUT via RF Input. The screen of EUT display "H" pattern and the "Color Bar" image at same time during PIP mode testing.
- 2.5.6. The PC System running the program "Windows Media Player" and sent the sound to earphone of EUT during all testing.
- 2.5.7. The PC System read data from FDD and then wrote data into FDD, same operation from HDD 、Modem.
- 2.5.8. The other peripheral devices were drove and operated in turn during all testing.
- 2.5.9. Repeat above procedure from 2.5.3 to 2.5.8.

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 C63.4-2003 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.

The all 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. Line Conducted RF Voltage Measurement Results

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

The EUT with following test modes were performed during conducted measurement and all the test results are attached next pages.

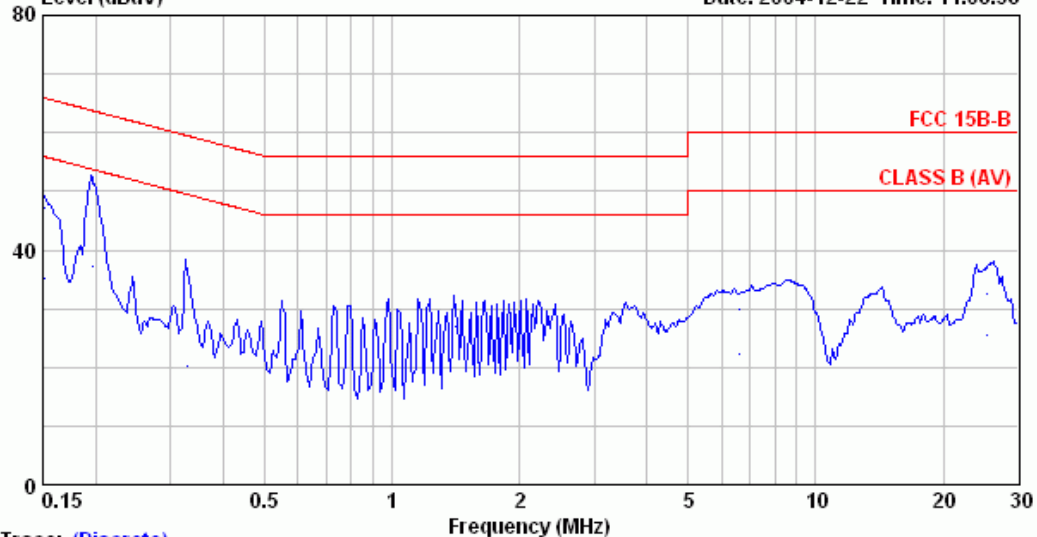
Test Date : Dec. 22, 2004 Temperature : 21°C Humidity : 59%

Mode	Serial Number	LCD Panel	Input Port	Frequency / Resolution, Image	Reference Data No.	
					Neutral	Line
1.	TY0404768	LG Philips, Type No: LS320W01	D-Sub	640*480/60Hz, 31kHz; H Pattern	# 6	# 5
2.				1280*720/60Hz, 44.7kHz; H Pattern	# 3	# 4
3.				1280*768/60Hz, 48kHz; H Pattern	# 2	# 1
4.			D-Sub + RF	H Pattern + Image "Color Bar" (PIP Mode)	# 7	# 8
5.	TY0404770	CPT, Type No: CLAA320WA01	D-Sub	640*480/60Hz, 31kHz; H Pattern	# 11	# 12
6.				1280*720/60Hz, 44.7kHz; H Pattern	# 14	# 13
7.				1280*768/60Hz, 48kHz; H Pattern	# 15	# 16
8.			D-Sub + RF	H Pattern + Image "Color Bar" (PIP Mode)	# 10	# 9



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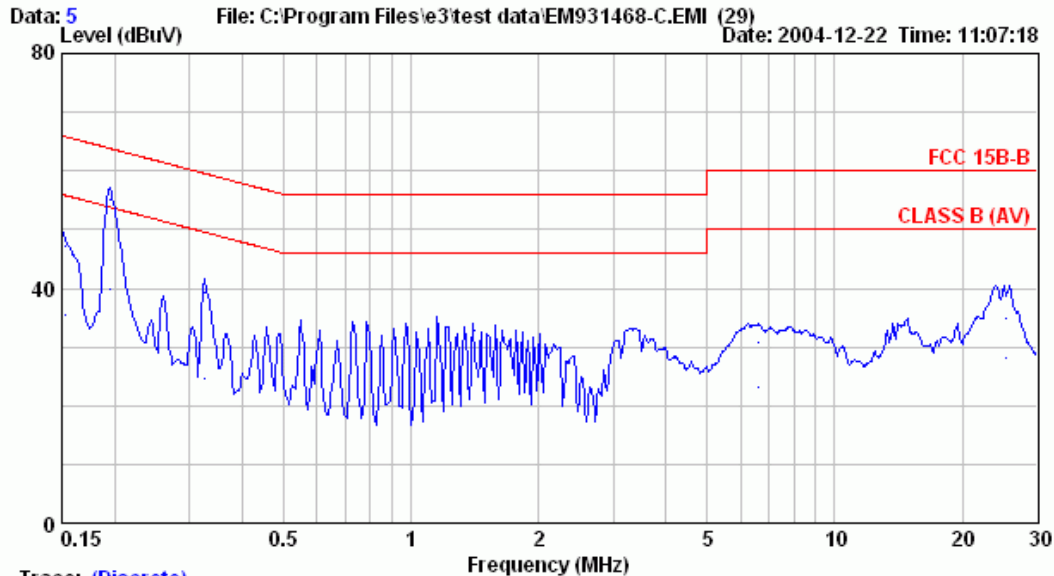
Site : NO.3 Shielded room Data : 6
Condition : KMW-407 Phase : NEUTRAL
Limit : FCC 15B-B
Env. / Ins. : (21°C, 59%) / ESCS30 Engineer: JASON LIN
EUT : LCD TV (32") M/N:32MF605W/17
Power Rating : 120Vac/60Hz
Test Mode : 640*480/60Hz/31KHz
S/N:TY0404768
LPL
D-SUB

	Freq. (MHz)	ISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.152	0.30	0.20	46.82	47.32	65.89	18.57	QP
2	0.152	0.29	0.20	34.75	35.24	55.89	20.64	AVERAGE
3	0.196	0.21	0.20	50.73	51.14	63.76	12.63	QP
4	0.196	0.21	0.20	36.69	37.10	53.76	16.67	AVERAGE
5	0.328	0.13	0.20	36.33	36.66	59.51	22.85	QP
6	0.328	0.13	0.20	19.89	20.22	49.51	29.29	AVERAGE
7	1.413	0.10	0.40	30.22	30.72	56.00	25.28	QP
8	1.416	0.10	0.40	26.32	26.82	46.00	19.18	AVERAGE
9	6.626	0.10	0.60	29.30	30.00	60.00	30.00	QP
10	6.629	0.10	0.60	21.55	22.25	50.00	27.75	AVERAGE
11	25.319	0.31	0.70	31.53	32.54	60.00	27.46	QP
12	25.321	0.31	0.70	24.58	25.59	50.00	24.41	AVERAGE

Remarks: 1. Emission Level= ISN 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.



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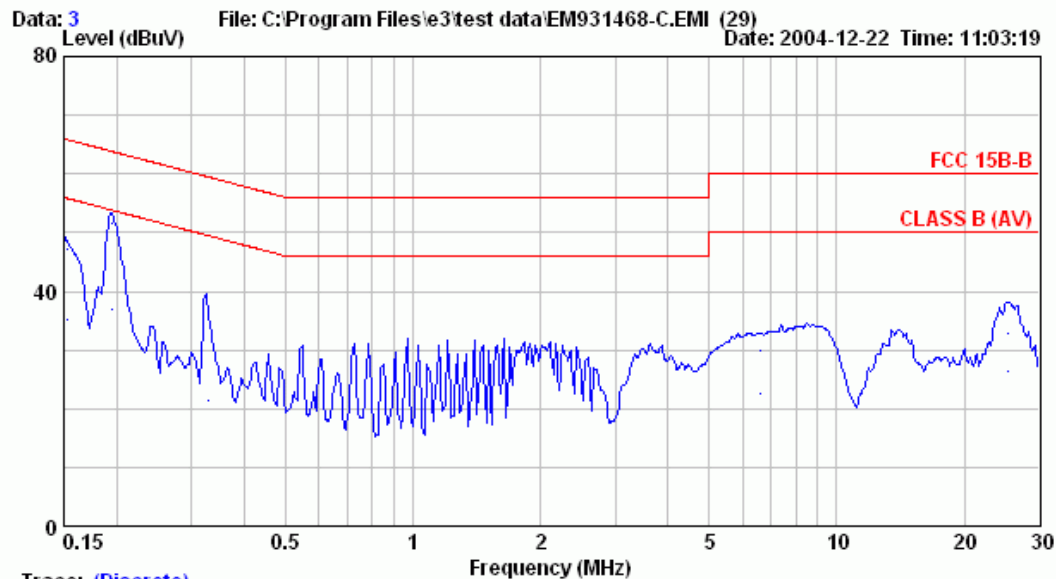
Site : NO.3 Shielded room Data : 5
Condition : KNW-407 Phase : LINE
Limit : FCC 15B-B
Env. / Ins. : (21°C, 59%) / ESCS30 Engineer: JASON LIN
EUT : LCD TV (32") M/N:32MF605W/17
Power Rating : 120Vac/60Hz
Test Mode : 640*480/60Hz/31KHz
S/N:TY0404768
LPL
D-SUB

	Freq.	ISN	Cable	Emission				
	(MHz)	Factor	Loss	Reading	Level	Limits	Margin	Remark
		(dB)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dB)	
1	0.152	0.29	0.20	46.62	47.11	65.88	18.77	QP
2	0.152	0.29	0.20	35.01	35.50	55.88	20.38	AVERAGE
3	0.195	0.21	0.20	54.73	55.14	63.82	8.68	QP
4	0.195	0.21	0.20	39.38	39.79	53.81	14.03	AVERAGE
5	0.327	0.13	0.20	39.07	39.40	59.53	20.13	QP
6	0.327	0.13	0.20	24.26	24.59	49.53	24.94	AVERAGE
7	1.409	0.10	0.40	32.34	32.84	56.00	23.16	QP
8	1.412	0.10	0.40	28.20	28.70	46.00	17.30	AVERAGE
9	6.624	0.10	0.60	29.93	30.63	60.00	29.37	QP
10	6.627	0.10	0.60	22.47	23.17	50.00	26.83	AVERAGE
11	25.316	0.41	0.70	33.83	34.94	60.00	25.06	QP
12	25.319	0.41	0.70	27.05	28.16	50.00	21.84	AVERAGE

Remarks: 1.Emission Level= ISN 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.



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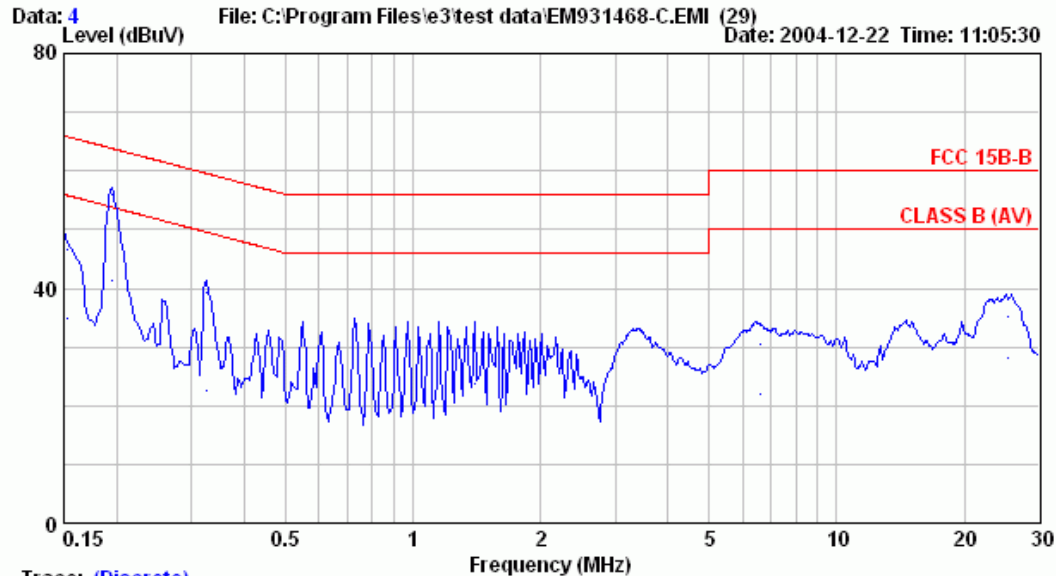
Site : NO.3 Shielded room Data : 3
Condition : KNW-407 Phase : NEUTRAL
Limit : FCC 15B-B
Env. / Ins. : (21°C, 59%) / ESCS30 Engineer: JASON LIN
EUT : LCD TV (32") M/N: 32MF605W/17
Power Rating : 120Vac/60Hz
Test Mode : 1280*720/60Hz/44.7KHz
S/N: TY0404768
LPL
D-SUB

	Freq.	ISN	Cable		Emission			
	(MHz)	Factor	Loss	Reading	Level	Limits	Margin	Remark
		(dB)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dB)	
1	0.152	0.29	0.20	46.70	47.19	65.88	18.68	QP
2	0.152	0.29	0.20	34.81	35.30	55.88	20.57	AVERAGE
3	0.195	0.21	0.20	51.03	51.44	63.81	12.38	QP
4	0.195	0.21	0.20	36.38	36.79	53.81	17.03	AVERAGE
5	0.327	0.13	0.20	37.29	37.62	59.52	21.90	QP
6	0.328	0.13	0.20	21.07	21.40	49.51	28.12	AVERAGE
7	1.400	0.10	0.40	29.91	30.41	56.00	25.59	QP
8	1.402	0.10	0.40	25.27	25.77	46.00	20.23	AVERAGE
9	6.627	0.10	0.60	29.32	30.02	60.00	29.98	QP
10	6.629	0.10	0.60	21.76	22.46	50.00	27.54	AVERAGE
11	25.313	0.31	0.70	31.80	32.81	60.00	27.19	QP
12	25.315	0.31	0.70	25.25	26.26	50.00	23.74	AVERAGE

Remarks: 1. Emission Level= ISN 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.



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Trace: (Discrete)

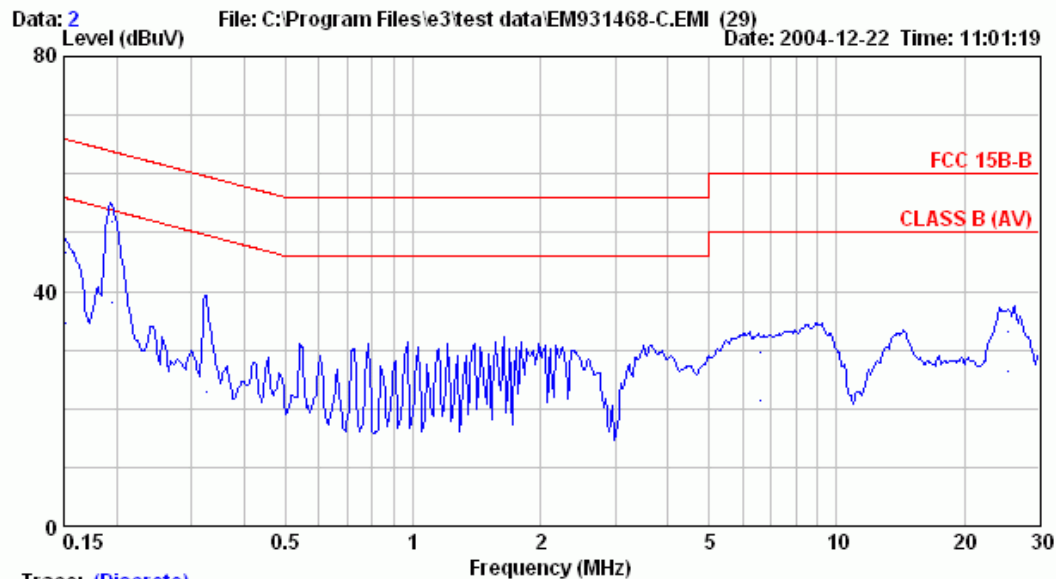
Site : NO.3 Shielded room Data : 4
Condition : KNW-407 Phase : LINE
Limit : FCC 15B-B
Env. / Ins. : (21°C, 59%) / ESCS30 Engineer: JASON LIN
EUT : LCD TV (32") M/N:32MF605W/17
Power Rating : 120Vac/60Hz
Test Mode : 1280*720/60Hz/44.7KHz
S/N:TY0404768
LPL
D-SUB

	Freq.	ISN	Cable	Emission				
	(MHz)	Factor	Loss	Reading	Level	Limits	Margin	Remark
		(dB)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dB)	
1	0.152	0.29	0.20	45.98	46.47	65.88	19.41	QP
2	0.152	0.29	0.20	34.40	34.89	55.88	20.99	AVERAGE
3	0.195	0.21	0.20	55.56	55.97	63.82	7.85	QP
4	0.195	0.21	0.20	40.85	41.26	53.81	12.56	AVERAGE
5	0.324	0.13	0.20	38.99	39.32	59.59	20.27	QP
6	0.324	0.13	0.20	22.30	22.63	49.59	26.96	AVERAGE
7	1.399	0.10	0.40	30.47	30.97	56.00	25.03	QP
8	1.401	0.10	0.40	23.32	23.82	46.00	22.18	AVERAGE
9	6.624	0.10	0.60	29.72	30.42	60.00	29.58	QP
10	6.627	0.10	0.60	21.31	22.01	50.00	27.99	AVERAGE
11	25.314	0.41	0.70	33.97	35.08	60.00	24.92	QP
12	25.316	0.41	0.70	27.07	28.18	50.00	21.82	AVERAGE

Remarks: 1.Emission Level= ISN 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.



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Email:ttmc@ttmc.com.tw



Trace: (Discrete)

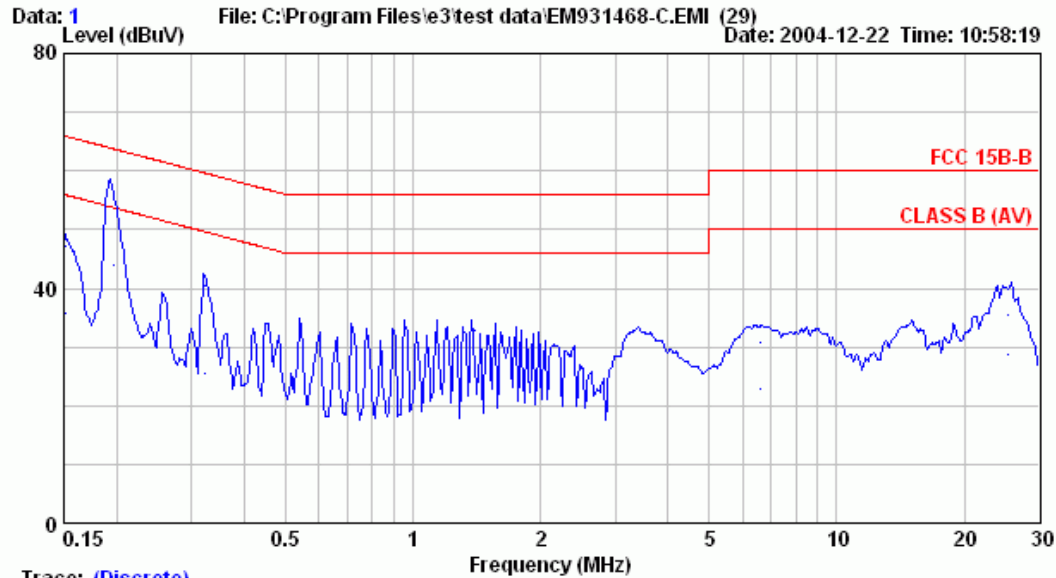
Site : NO.3 Shielded room Data : 2
Condition : KNW-407 Phase : NEUTRAL
Limit : FCC 15B-B
Env. / Ins. : (21°C, 59%) / ESCS30 Engineer: JASON LIN
EUT : LCD TV (32") M/N:32MF605W/17
Power Rating : 120Vac/60Hz
Test Mode : 1280*768/60Hz/48KHz
S/N:TY0404768
LPL
D-SUB

	Freq.	ISN	Cable	Emission				
	(MHz)	Factor	Loss	Reading	Level	Limits	Margin	Remark
		(dB)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dB)	
1	0.152	0.29	0.20	46.02	46.51	65.89	19.37	QP
2	0.152	0.29	0.20	33.98	34.47	55.89	21.41	AVERAGE
3	0.194	0.21	0.20	51.46	51.87	63.86	11.99	QP
4	0.194	0.21	0.20	37.60	38.01	53.86	15.85	AVERAGE
5	0.326	0.13	0.20	37.72	38.05	59.54	21.49	QP
6	0.326	0.13	0.20	22.46	22.79	49.54	26.75	AVERAGE
7	1.401	0.10	0.40	29.85	30.35	56.00	25.65	QP
8	1.404	0.10	0.40	25.46	25.96	46.00	20.04	AVERAGE
9	6.626	0.10	0.60	28.95	29.65	60.00	30.35	QP
10	6.628	0.10	0.60	20.58	21.28	50.00	28.72	AVERAGE
11	25.310	0.31	0.70	32.00	33.01	60.00	26.99	QP
12	25.311	0.31	0.70	25.27	26.28	50.00	23.72	AVERAGE

Remarks: 1.Emission Level= ISN 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.



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Trace: (Discrete)

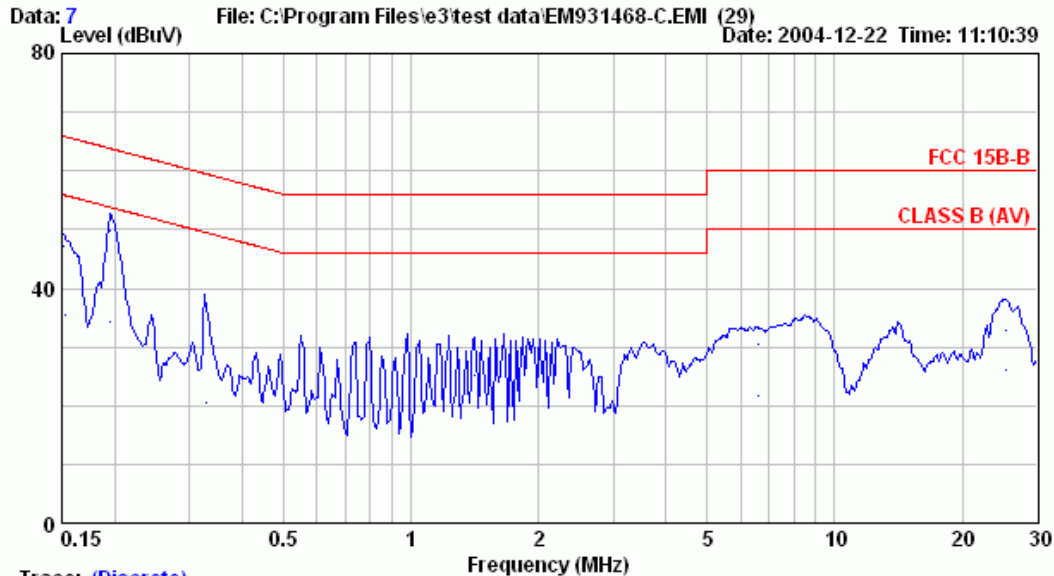
Site : NO.3 Shielded room Data : 1
Condition : KNW-407 Phase : LINE
Limit : FCC 15B-B
Env. / Ins. : (21°C, 59%) / ESCS30 Engineer: JASON LIN
EUT : LCD TV (32") M/N:32MF605W/17
Power Rating : 120Vac/60Hz
Test Mode : 1280*768/60Hz/48KHz
S/N:TY0404768
LPL
D-SUB

	Freq. (MHz)	ISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.152	0.30	0.20	46.82	47.32	65.89	18.57	QP
2	0.152	0.29	0.20	35.31	35.80	55.89	20.08	AVERAGE
3	0.197	0.21	0.20	55.70	56.11	63.75	7.64	QP
4	0.197	0.21	0.20	43.55	43.96	53.75	9.79	AVERAGE
5	0.324	0.13	0.20	40.13	40.46	59.61	19.15	QP
6	0.324	0.13	0.20	25.20	25.53	49.61	24.08	AVERAGE
7	1.400	0.10	0.40	32.38	32.88	56.00	23.12	QP
8	1.403	0.10	0.40	25.01	25.51	46.00	20.49	AVERAGE
9	6.627	0.10	0.60	30.05	30.75	60.00	29.25	QP
10	6.630	0.10	0.60	22.14	22.84	50.00	27.16	AVERAGE
11	25.309	0.41	0.70	34.26	35.37	60.00	24.63	QP
12	25.311	0.41	0.70	27.47	28.58	50.00	21.42	AVERAGE

Remarks: 1.Emission Level= ISN 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.



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Trace: (Discrete)

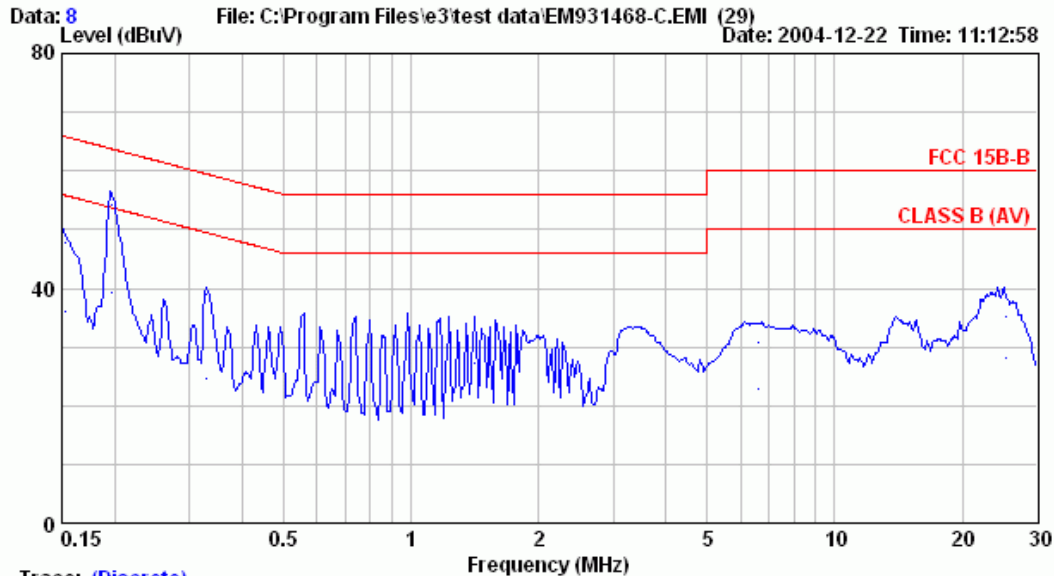
Site : NO.3 Shielded room Data : 7
Condition : KNW-407 Phase : NEUTRAL
Limit : FCC 15B-B
Env. / Ins. : (21°C, 59%) / ESCS30 Engineer: JASON LIN
EUT : LCD TV (32") M/N:32MF605W/17
Power Rating : 120Vac/60Hz
Test Mode : PIP
S/N:TY0404768
LPL

	Freq. (MHz)	ISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.152	0.29	0.20	46.72	47.21	65.89	18.67	QP
2	0.152	0.29	0.20	34.95	35.44	55.88	20.44	AVERAGE
3	0.195	0.21	0.20	49.34	49.75	63.82	14.07	QP
4	0.195	0.21	0.20	33.87	34.28	53.81	19.54	AVERAGE
5	0.330	0.13	0.20	36.02	36.35	59.45	23.10	QP
6	0.330	0.13	0.20	20.17	20.50	49.45	28.95	AVERAGE
7	1.412	0.10	0.40	30.00	30.50	56.00	25.50	QP
8	1.415	0.10	0.40	24.80	25.30	46.00	20.70	AVERAGE
9	6.627	0.10	0.60	29.66	30.36	60.00	29.64	QP
10	6.629	0.10	0.60	21.07	21.77	50.00	28.23	AVERAGE
11	25.319	0.31	0.70	31.94	32.95	60.00	27.05	QP
12	25.320	0.31	0.70	24.93	25.94	50.00	24.06	AVERAGE

Remarks: 1.Emission Level= ISN 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.



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Trace: (Discrete)

Site : NO.3 Shielded room Data : 8
Condition : KNW-407 Phase : LINE
Limit : FCC 15B-B
Env. / Ins. : (21°C, 59%) / ESCS30 Engineer: JASON LIN
EUT : LCD TV (32") M/N:32MF605W/17
Power Rating : 120Vac/60Hz
Test Mode : PIP
S/N:TY0404768
LPL

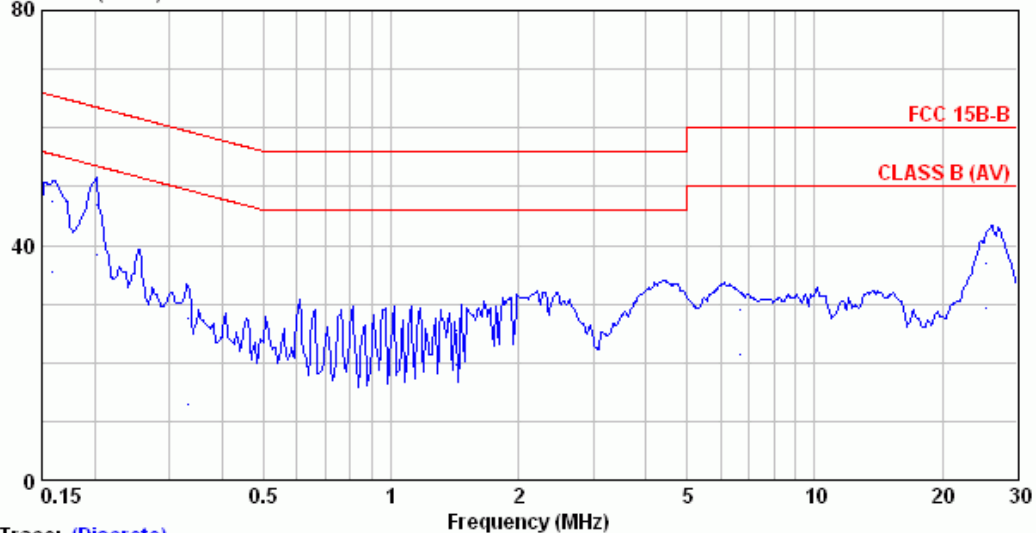
	Freq. (MHz)	ISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.152	0.29	0.20	47.24	47.73	65.88	18.15	QP
2	0.152	0.29	0.20	35.50	35.99	55.88	19.89	AVERAGE
3	0.196	0.21	0.20	53.89	54.30	63.76	9.47	QP
4	0.196	0.21	0.20	38.75	39.16	53.76	14.60	AVERAGE
5	0.330	0.13	0.20	38.67	39.00	59.44	20.45	QP
6	0.330	0.13	0.20	24.28	24.61	49.44	24.84	AVERAGE
7	1.416	0.10	0.40	32.56	33.06	56.00	22.94	QP
8	1.419	0.10	0.40	26.64	27.14	46.00	18.86	AVERAGE
9	6.629	0.10	0.60	30.07	30.77	60.00	29.23	QP
10	6.630	0.10	0.60	22.10	22.80	50.00	27.20	AVERAGE
11	25.322	0.41	0.70	34.09	35.20	60.00	24.80	QP
12	25.324	0.41	0.70	27.10	28.21	50.00	21.79	AVERAGE

Remarks: 1.Emission Level= ISN 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.



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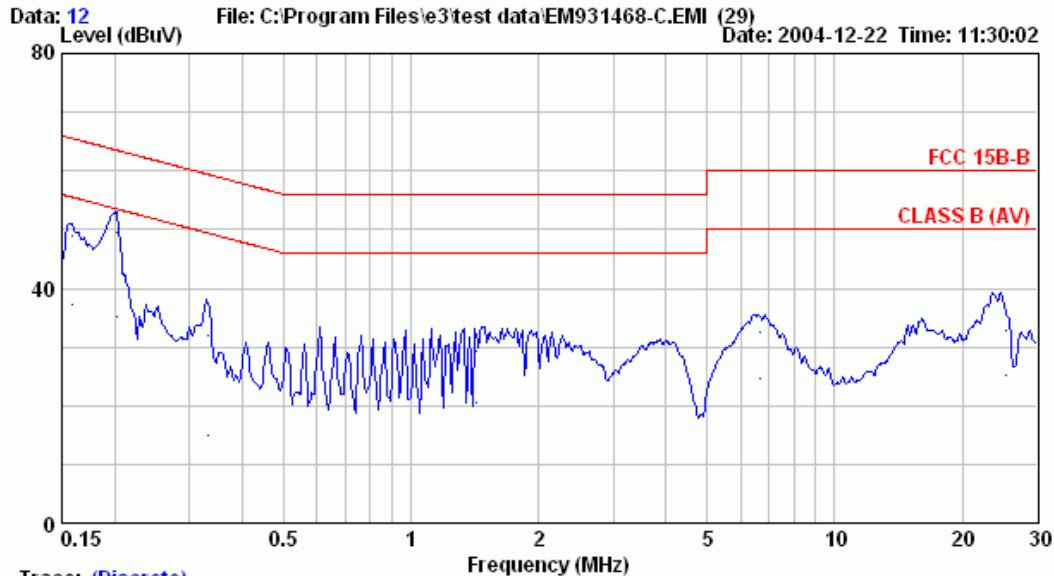
Site : NO.3 Shielded room Data : 11
Condition : KNW-407 Phase : NEUTRAL
Limit : FCC 15B-B
Env. / Ins. : (21°C, 59%) / ESCS30 Engineer: JASON LIN
EUT : LCD TV (32") M/N:32MF605W/17
Power Rating : 120Vac/60Hz
Test Mode : 640*480/60Hz/31KHz
S/N:TY0404770
CPT
D-SUB

	Freq. (MHz)	ISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.159	0.28	0.20	46.86	47.34	65.51	18.17	QP
2	0.159	0.28	0.20	34.84	35.32	55.51	20.19	AVERAGE
3	0.201	0.20	0.20	46.55	46.95	63.55	16.60	QP
4	0.202	0.20	0.20	37.93	38.33	53.55	15.22	AVERAGE
5	0.331	0.13	0.20	27.31	27.64	59.41	31.78	QP
6	0.332	0.13	0.20	12.53	12.86	49.41	36.56	AVERAGE
7	1.427	0.10	0.40	24.98	25.48	56.00	30.52	QP
8	1.430	0.10	0.40	19.16	19.66	46.00	26.34	AVERAGE
9	6.637	0.10	0.60	28.41	29.11	60.00	30.89	QP
10	6.639	0.10	0.60	20.76	21.46	50.00	28.54	AVERAGE
11	25.328	0.31	0.70	35.79	36.80	60.00	23.20	QP
12	25.331	0.31	0.70	28.18	29.19	50.00	20.81	AVERAGE

Remarks: 1.Emission Level= ISN 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.



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Trace: (Discrete)

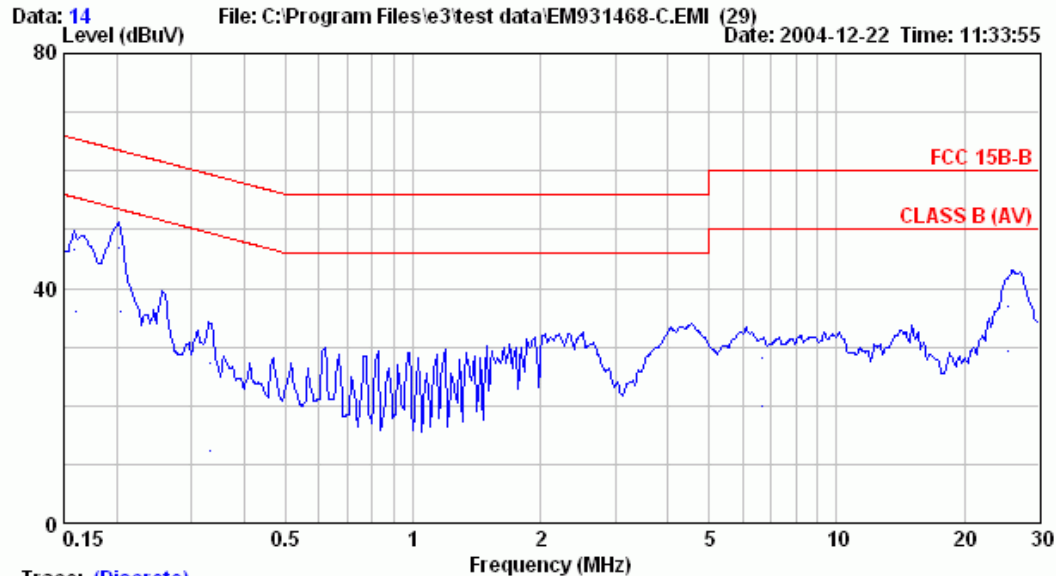
Site : NO.3 Shielded room Data : 12
Condition : KNW-407 Phase : LINE
Limit : FCC 15B-B
Env. / Ins. : (21°C, 59%) / ESCS30 Engineer: JASON LIN
EUT : LCD TV (32") M/N:32MF605W/17
Power Rating : 120Vac/60Hz
Test Mode : 640*480/60Hz/31KHz
S/N:TY0404770
CPT
D-SUB

	Freq. (MHz)	ISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.159	0.28	0.20	48.48	48.96	65.51	16.55	QP
2	0.159	0.28	0.20	36.66	37.14	55.51	18.37	AVERAGE
3	0.201	0.20	0.20	49.10	49.50	63.55	14.05	QP
4	0.202	0.20	0.20	34.86	35.26	53.55	18.29	AVERAGE
5	0.331	0.13	0.20	31.50	31.83	59.42	27.59	QP
6	0.331	0.13	0.20	14.49	14.82	49.41	34.60	AVERAGE
7	1.426	0.10	0.40	28.70	29.20	56.00	26.80	QP
8	1.429	0.10	0.40	20.05	20.55	46.00	25.45	AVERAGE
9	6.638	0.10	0.60	31.80	32.50	60.00	27.50	QP
10	6.641	0.10	0.60	23.77	24.47	50.00	25.53	AVERAGE
11	25.331	0.41	0.70	31.63	32.74	60.00	27.26	QP
12	25.333	0.41	0.70	24.17	25.28	50.00	24.72	AVERAGE

Remarks: 1.Emission Level= ISN 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.



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Trace: (Discrete)

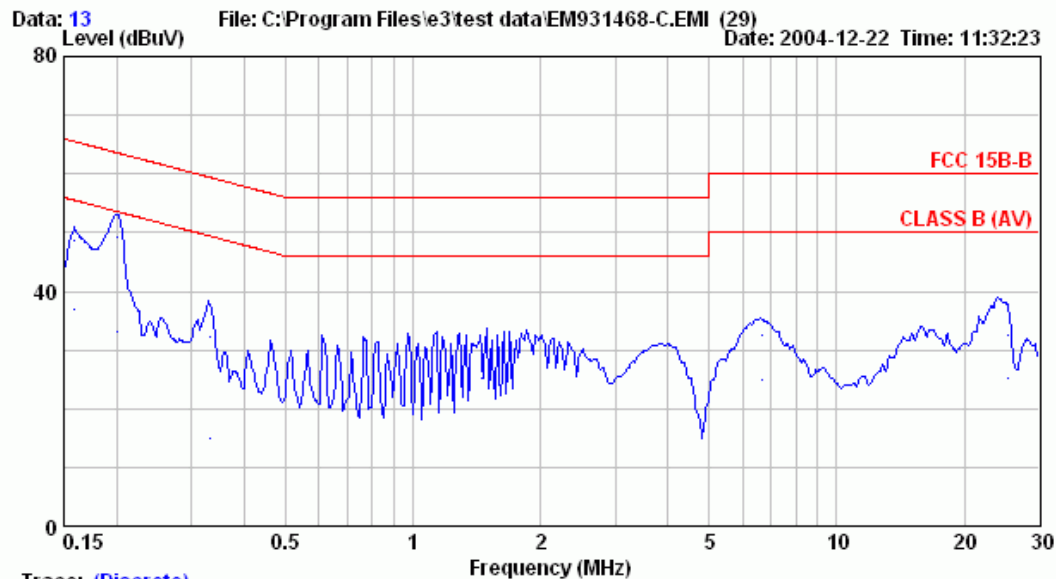
Site : NO.3 Shielded room Data : 14
Condition : KNW-407 Phase : NEUTRAL
Limit : FCC 15B-B
Env. / Ins. : (21°C, 59%) / ESCS30 Engineer: JASON LIN
EUT : LCD TV (32") M/N:32MF605W/17
Power Rating : 120Vac/60Hz
Test Mode : 1280*720/60Hz/44.7KHz
S/N:TY0404770
CPT
D-SUB

	Freq. (MHz)	ISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.159	0.28	0.20	46.04	46.52	65.50	18.98	QP
2	0.159	0.28	0.20	35.51	35.99	55.49	19.51	AVERAGE
3	0.203	0.20	0.20	46.49	46.89	63.48	16.59	QP
4	0.203	0.20	0.20	35.71	36.11	53.48	17.37	AVERAGE
5	0.331	0.13	0.20	27.07	27.40	59.42	32.02	QP
6	0.331	0.13	0.20	12.04	12.37	49.41	37.05	AVERAGE
7	1.451	0.10	0.40	24.84	25.34	56.00	30.66	QP
8	1.455	0.10	0.40	19.06	19.56	46.00	26.44	AVERAGE
9	6.645	0.10	0.60	27.30	28.00	60.00	32.00	QP
10	6.646	0.10	0.60	19.09	19.79	50.00	30.21	AVERAGE
11	25.333	0.31	0.70	35.79	36.80	60.00	23.20	QP
12	25.336	0.31	0.70	28.28	29.29	50.00	20.71	AVERAGE

Remarks: 1.Emission Level= ISN 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.



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Trace: (Discrete)

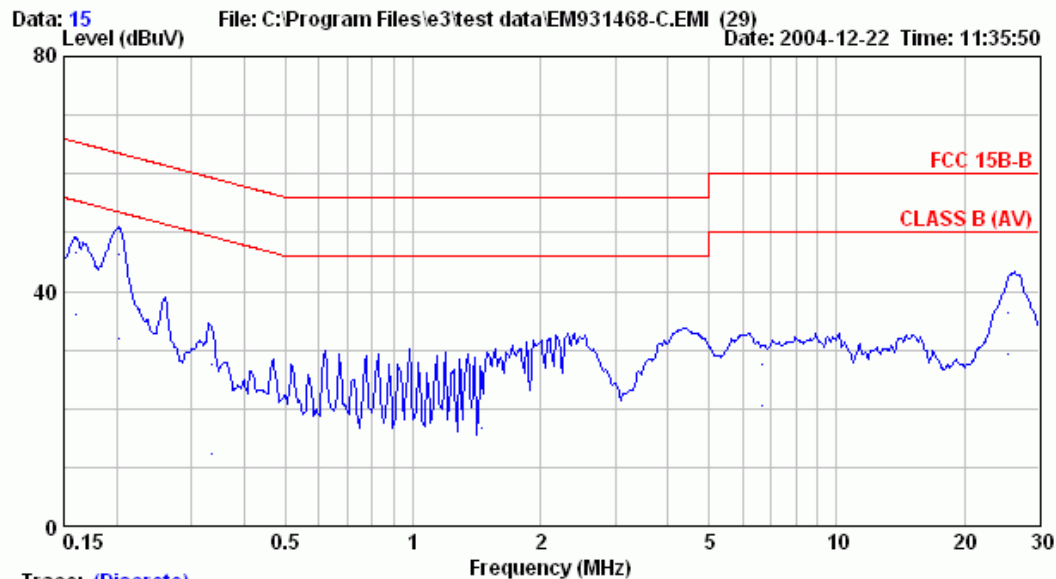
Site : NO.3 Shielded room Data : 13
Condition : KNW-407 Phase : LINE
Limit : FCC 15B-B
Env. / Ins. : (21°C, 59%) / ESCS30 Engineer: JASON LIN
EUT : LCD TV (32") M/N:32MF605W/17
Power Rating : 120Vac/60Hz
Test Mode : 1280*720/60Hz/44.7KHz
S/N:TY0404770
CPT
D-SUB

	Freq. (MHz)	ISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.159	0.28	0.20	48.14	48.62	65.50	16.88	QP
2	0.159	0.28	0.20	36.32	36.80	55.50	18.70	AVERAGE
3	0.201	0.20	0.20	48.77	49.17	63.58	14.41	QP
4	0.201	0.20	0.20	32.75	33.15	53.58	20.43	AVERAGE
5	0.333	0.13	0.20	31.83	32.16	59.38	27.23	QP
6	0.333	0.13	0.20	14.50	14.83	49.38	34.56	AVERAGE
7	1.451	0.10	0.40	30.28	30.78	56.00	25.22	QP
8	1.454	0.10	0.40	24.57	25.07	46.00	20.93	AVERAGE
9	6.641	0.10	0.60	31.82	32.52	60.00	27.48	QP
10	6.643	0.10	0.60	24.33	25.03	50.00	24.97	AVERAGE
11	25.330	0.41	0.70	31.41	32.52	60.00	27.48	QP
12	25.333	0.41	0.70	24.16	25.27	50.00	24.73	AVERAGE

Remarks: 1.Emission Level= ISN 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.



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Trace: (Discrete)

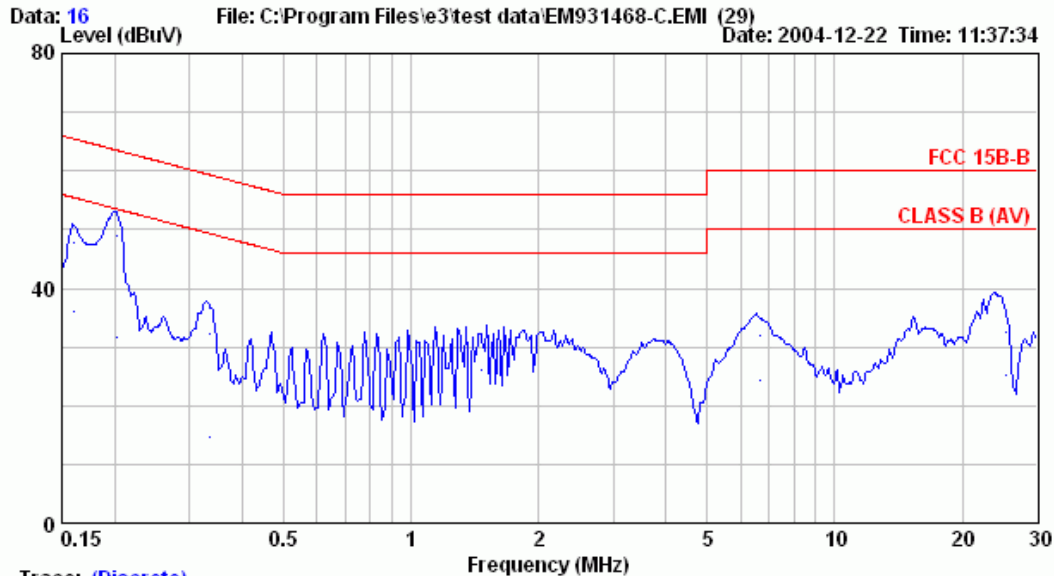
Site : NO.3 Shielded room Data : 15
Condition : KNW-407 Phase : NEUTRAL
Limit : FCC 15B-B
Env. / Ins. : (21°C, 59%) / ESCS30 Engineer: JASON LIN
EUT : LCD TV (32") M/N:32MF605W/17
Power Rating : 120Vac/60Hz
Test Mode : 1280*768/60Hz/48KHz
S/N:TY0404770
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D-SUB

	Freq. (MHz)	ISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.160	0.28	0.20	46.10	46.58	65.49	18.91	QP
2	0.160	0.28	0.20	35.61	36.09	55.49	19.40	AVERAGE
3	0.202	0.20	0.20	45.81	46.21	63.53	17.32	QP
4	0.202	0.20	0.20	31.46	31.86	53.53	21.67	AVERAGE
5	0.335	0.13	0.20	27.25	27.58	59.33	31.76	QP
6	0.335	0.13	0.20	12.07	12.40	49.33	36.94	AVERAGE
7	1.450	0.10	0.40	24.00	24.50	56.00	31.50	QP
8	1.453	0.10	0.40	16.33	16.83	46.00	29.17	AVERAGE
9	6.649	0.10	0.60	26.96	27.66	60.00	32.34	QP
10	6.651	0.10	0.60	19.88	20.58	50.00	29.42	AVERAGE
11	25.337	0.31	0.70	35.39	36.40	60.00	23.60	QP
12	25.338	0.31	0.70	28.22	29.23	50.00	20.77	AVERAGE

Remarks: 1.Emission Level= ISN 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.



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Trace: (Discrete)

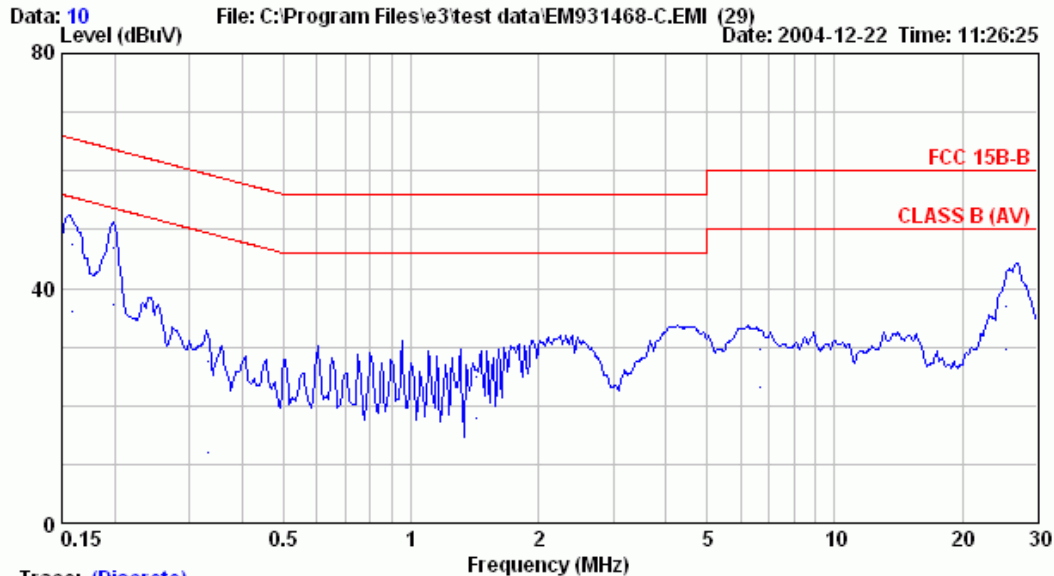
Site : NO.3 Shielded room Data : 16
Condition : KNW-407 Phase : LINE
Limit : FCC 15B-B
Env. / Ins. : (21°C, 59%) / ESCS30 Engineer: JASON LIN
EUT : LCD TV (32") M/N: 32MF605W/17
Power Rating : 120Vac/60Hz
Test Mode : 1280*768/60Hz/48KHz
S/N: TY0404770
CPT
D-SUB

	Freq.	ISN	Cable	Emission				
	(MHz)	Factor	Loss	Reading	Level	Limits	Margin	Remark
		(dB)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dB)	
1	0.160	0.28	0.20	47.42	47.90	65.48	17.58	QP
2	0.160	0.28	0.20	35.42	35.90	55.48	19.58	AVERAGE
3	0.202	0.20	0.20	48.43	48.83	63.53	14.70	QP
4	0.202	0.20	0.20	31.35	31.75	53.53	21.78	AVERAGE
5	0.335	0.13	0.20	31.93	32.26	59.33	27.08	QP
6	0.335	0.13	0.20	14.20	14.53	49.33	34.81	AVERAGE
7	1.463	0.10	0.40	30.67	31.17	56.00	24.83	QP
8	1.467	0.10	0.40	25.45	25.95	46.00	20.05	AVERAGE
9	6.654	0.10	0.60	31.10	31.80	60.00	28.20	QP
10	6.656	0.10	0.60	23.74	24.44	50.00	25.56	AVERAGE
11	25.340	0.41	0.70	31.43	32.54	60.00	27.46	QP
12	25.344	0.41	0.70	24.03	25.14	50.00	24.86	AVERAGE

Remarks: 1. Emission Level= ISN 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.



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Trace: (Discrete)

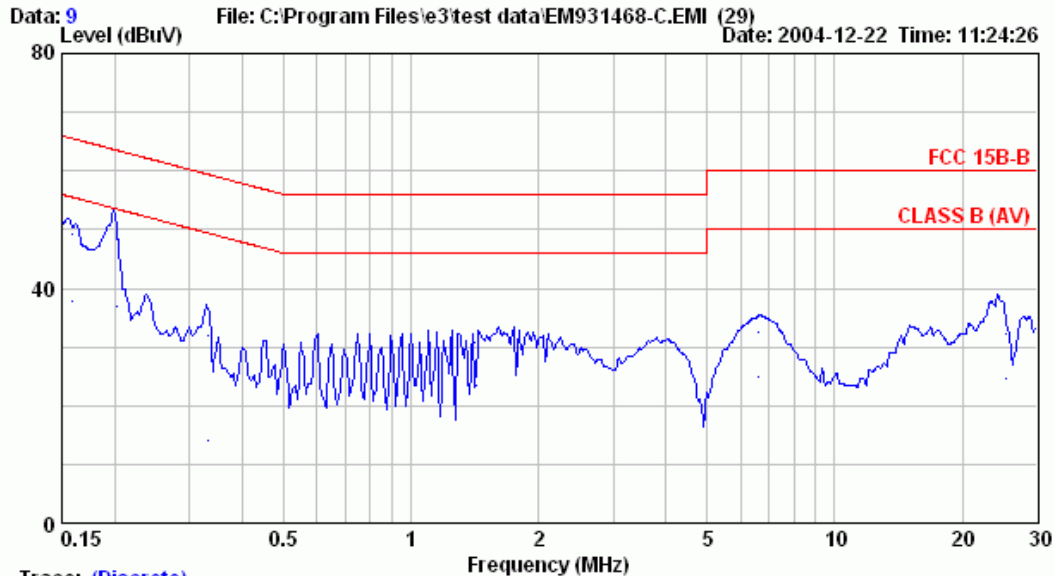
Site	: NO.3 Shielded room	Data	: 10
Condition	: KNW-407	Phase	: NEUTRAL
Limit	: FCC 15B-B		
Env. / Ins.	: (21°C, 59%) / ESCS30	Engineer:	: JASON LIN
EUT	: LCD TV (32") M/N:32MF605W/17		
Power Rating	: 120Vac/60Hz		
Test Mode	: PIP		
	: S/N:TY0404770		
	: CPT		

	Freq. (MHz)	ISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.159	0.28	0.20	47.04	47.52	65.52	18.00	QP
2	0.159	0.28	0.20	35.62	36.10	55.52	19.42	AVERAGE
3	0.199	0.20	0.20	46.53	46.93	63.65	16.72	QP
4	0.199	0.20	0.20	36.80	37.20	53.65	16.45	AVERAGE
5	0.333	0.13	0.20	27.11	27.44	59.38	31.95	QP
6	0.333	0.13	0.20	11.71	12.04	49.38	37.35	AVERAGE
7	1.429	0.10	0.40	24.43	24.93	56.00	31.07	QP
8	1.431	0.10	0.40	17.34	17.84	46.00	28.16	AVERAGE
9	6.635	0.10	0.60	28.95	29.65	60.00	30.35	QP
10	6.639	0.10	0.60	22.45	23.15	50.00	26.85	AVERAGE
11	25.325	0.31	0.70	35.79	36.80	60.00	23.20	QP
12	25.328	0.31	0.70	28.54	29.55	50.00	20.45	AVERAGE

Remarks: 1. Emission Level= ISN 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.



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Trace: (Discrete)

Site : NO.3 Shielded room Data : 9
Condition : KNW-407 Phase : LINE
Limit : FCC 15B-B
Env. / Ins. : (21°C, 59%) / ESCS30 Engineer: JASON LIN
EUT : LCD TV (32") M/N:32MF605W/17
Power Rating : 120Vac/60Hz
Test Mode : PIP
S/N:TY0404770
CPT

	Freq. (MHz)	ISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.158	0.28	0.20	48.89	49.37	65.57	16.19	QP
2	0.158	0.28	0.20	37.31	37.79	55.56	17.77	AVERAGE
3	0.201	0.20	0.20	48.01	48.41	63.55	15.14	QP
4	0.202	0.20	0.20	36.42	36.82	53.55	16.73	AVERAGE
5	0.331	0.13	0.20	31.54	31.87	59.42	27.55	QP
6	0.331	0.13	0.20	13.83	14.16	49.42	35.26	AVERAGE
7	1.419	0.10	0.40	30.14	30.64	56.00	25.36	QP
8	1.421	0.10	0.40	23.06	23.56	46.00	22.44	AVERAGE
9	6.630	0.10	0.60	31.93	32.63	60.00	27.37	QP
10	6.633	0.10	0.60	24.07	24.77	50.00	25.23	AVERAGE
11	25.322	0.41	0.70	31.15	32.26	60.00	27.74	QP
12	25.324	0.41	0.70	23.58	24.69	50.00	25.31	AVERAGE

Remarks: 1. Emission Level= ISN 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 DISTURBANCE MEASUREMENT

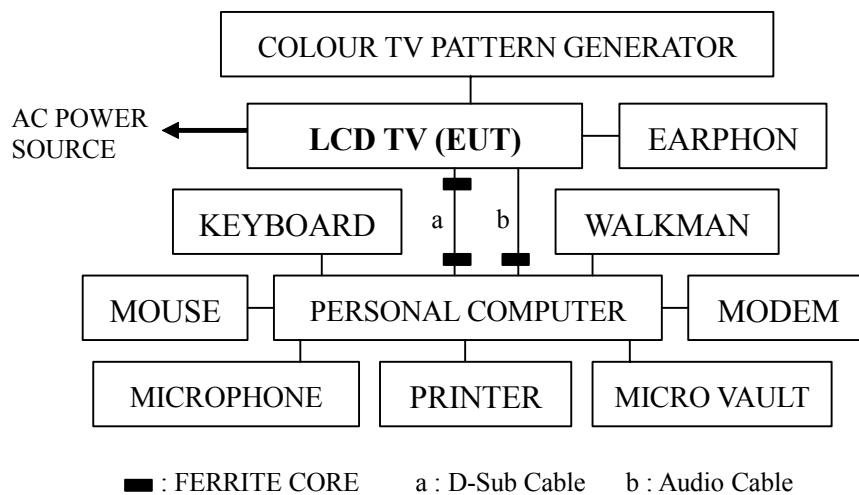
3.1. Test Equipment

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

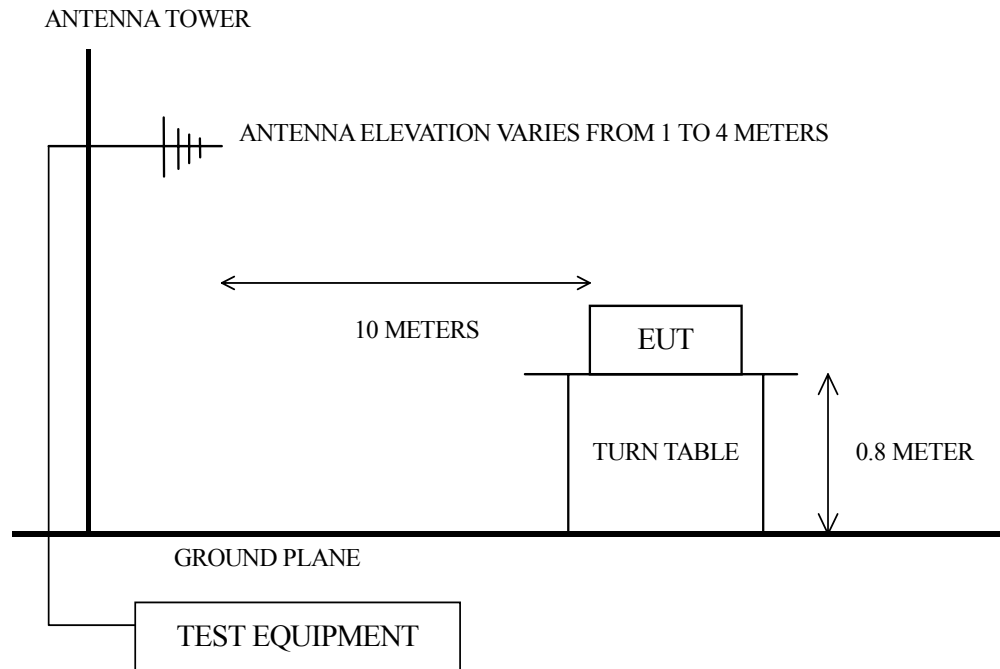
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	E7405A	MY42000134	Jul.04, 04'	Jul.03, 05'
2.	Test Receiver	Rohde&Schwarz	ESVS10	845165/018	Jun.14, 04'	Jun.13, 05'
3.	Amplifier	HP	8447D	2727A05737	N/A	N/A
4.	Broadband Antenna	Chase	VBA6106A	1263	Nov.15, 04'	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



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 (dB μ V/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 was 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) 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 and CISPR 22 on radiated measurement.

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

The frequency range from 30MHz to 1000MHz was pre-scanned with a peak detector.

The all final readings from test receiver were measured with Quasi-Peak detector.

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 were performed during radiated measurement and all the test results are attached next pages.

Test Date : Dec. 28, 2004 Temperature : 17°C Humidity : 68%

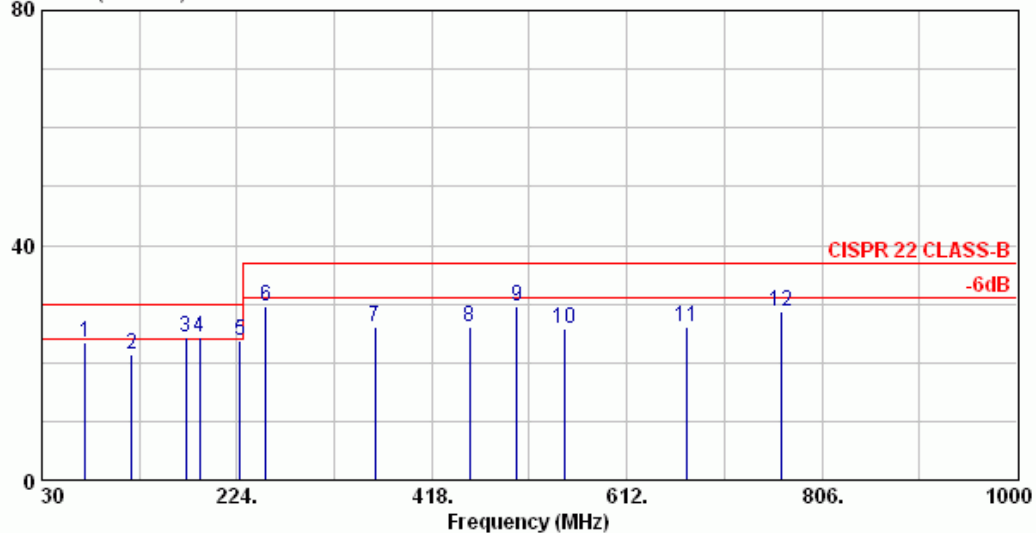
Mode	Serial Number	LCD Panel	Input Port	Frequency / Resolution, Image	Reference Data No.	
					Horizontal	Vertical
※	TY0404768	LG Philips, Type No: LS320W01	D-Sub	640*480/60Hz, 31kHz; H Pattern	# 6	# 5
				1280*720/60Hz, 44.7kHz; H Pattern	# 3	# 4
				1280*768/60Hz, 48kHz; H Pattern	# 2	# 1
			D-Sub + RF	H Pattern + Image "Color Bar" (PIP Mode)	# 7	# 8
※	TY0404770	CPT, Type No: CLAA320WA01	D-Sub	640*480/60Hz, 31kHz; H Pattern	# 14	# 13
				1280*720/60Hz, 44.7kHz; H Pattern	# 11	# 12
				1280*768/60Hz, 48kHz; H Pattern	# 10	# 9
			D-Sub + RF	H Pattern + Image "Color Bar" (PIP Mode)	# 15	# 16

(※ mode for maximum detected emission)



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Data: 6 File: C:\Program Files\etest\test data\EM931468-O-D.EMI (16) Date: 2004-12-28 Time: 13:48:39



Site no. : No.4 OPEN SITE Data no. : 6
Dis. / Ant. : 10m VBA6106A/UPA6109 Ant. pol. : HORIZONTAL
Limit : CISPR 22 CLASS-B
Env. / Ins. : 17°C/68% ESVS 10 Engineer : Alex Yen
EUT : LCD TV(32") M/N:32MF605W/17
Power Rating : 120Vac/60Hz
Test Mode : 640*480/60Hz 31KHz
LPL S/N:TY0404768

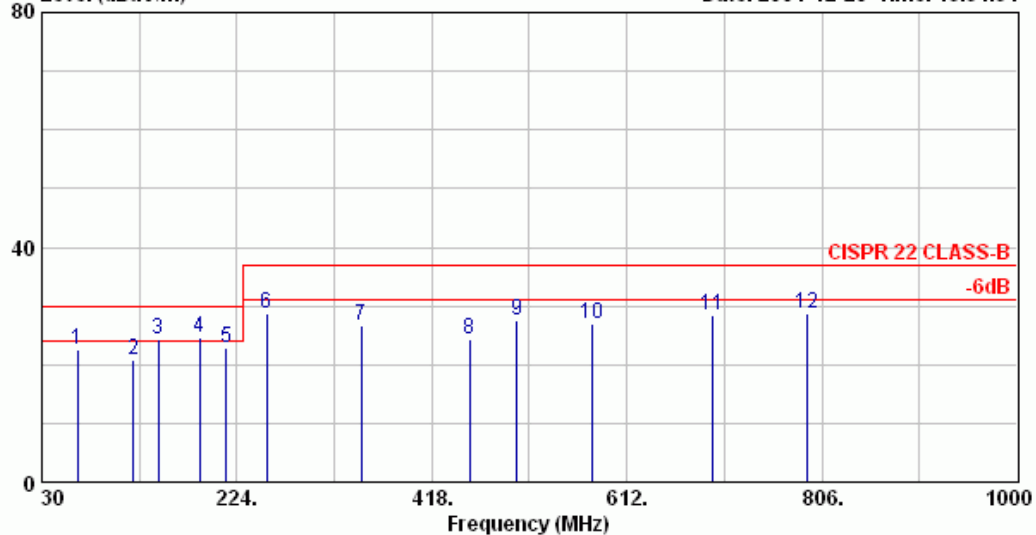
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	73.203	13.22	0.90	9.46	23.57	30.00	6.43	
2	119.405	18.92	1.11	1.33	21.35	30.00	8.65	
3	173.216	21.22	1.38	1.77	24.36	30.00	5.64	
4	186.795	21.03	1.61	1.70	24.34	30.00	5.66	
5	227.026	22.12	1.56	-0.01	23.66	30.00	6.34	
6	252.606	23.17	1.68	4.68	29.53	37.00	7.47	
7	361.552	15.37	2.11	8.64	26.12	37.00	10.88	
8	455.720	17.32	2.37	6.34	26.03	37.00	10.97	
9	502.686	18.18	2.44	8.86	29.48	37.00	7.52	
10	549.889	19.55	2.54	3.81	25.90	37.00	11.10	
11	670.962	22.32	2.96	0.84	26.12	37.00	10.88	
12	765.928	22.94	3.22	2.48	28.63	37.00	8.37	

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



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Data: 5 File: C:\Program Files\etest\test data\EM931468-O-D.EMI (16) Date: 2004-12-28 Time: 13:34:31



Site no. : No.4 OPEN SITE Data no. : 5
Dis. / Ant. : 10m VBA6106A/UPA6109 Ant. pol. : VERTICAL
Limit : CISPR 22 CLASS-B
Env. / Ins. : 17°C/68% ESVS 10 Engineer : Alex Yen
EUT : LCD TV(32") M/N:32MF605W/17
Power Rating : 120Vac/60Hz
Test Mode : 640*480/60Hz 31KHz
LPL S/N:TY0404768

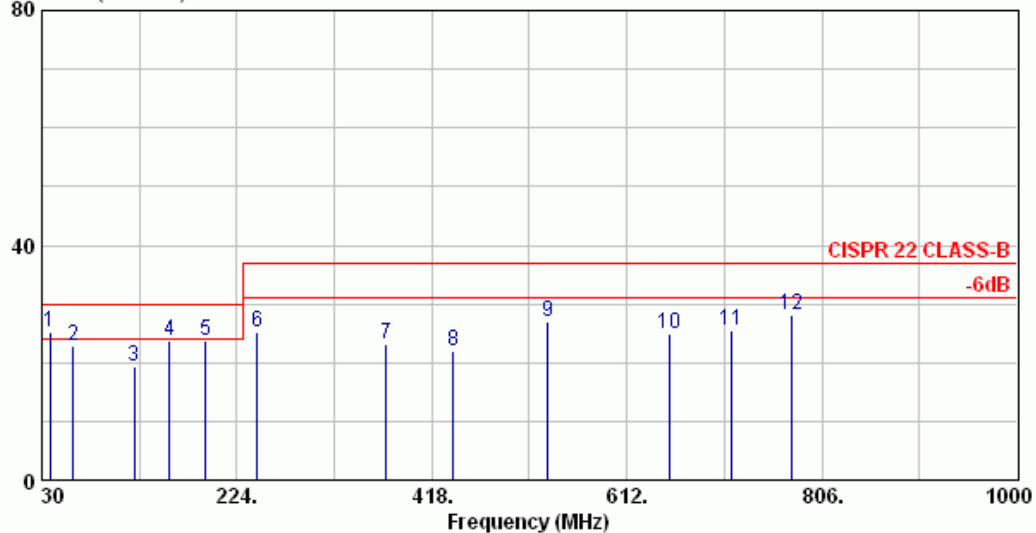
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	65.595	13.01	0.87	8.61	22.48	30.00	7.52	
2	121.216	18.31	1.12	1.36	20.78	30.00	9.22	
3	146.311	20.34	1.35	2.59	24.28	30.00	5.72	
4	186.668	21.79	1.61	1.32	24.72	30.00	5.28	
5	213.272	21.91	1.50	-0.46	22.94	30.00	7.06	
6	253.931	23.57	1.69	3.42	28.68	37.00	8.32	
7	348.100	14.76	2.10	9.88	26.75	37.00	10.25	
8	455.720	17.90	2.37	4.16	24.44	37.00	12.56	
9	502.838	18.24	2.44	6.84	27.52	37.00	9.48	
10	576.794	21.03	2.63	3.21	26.87	37.00	10.13	
11	697.867	22.56	3.03	2.71	28.30	37.00	8.70	
12	792.035	23.62	3.27	1.94	28.84	37.00	8.16	

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



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Data: 3 File: C:\Program Files\etest\test data\EM931468-O-D.EMI (16) Date: 2004-12-28 Time: 12:05:36



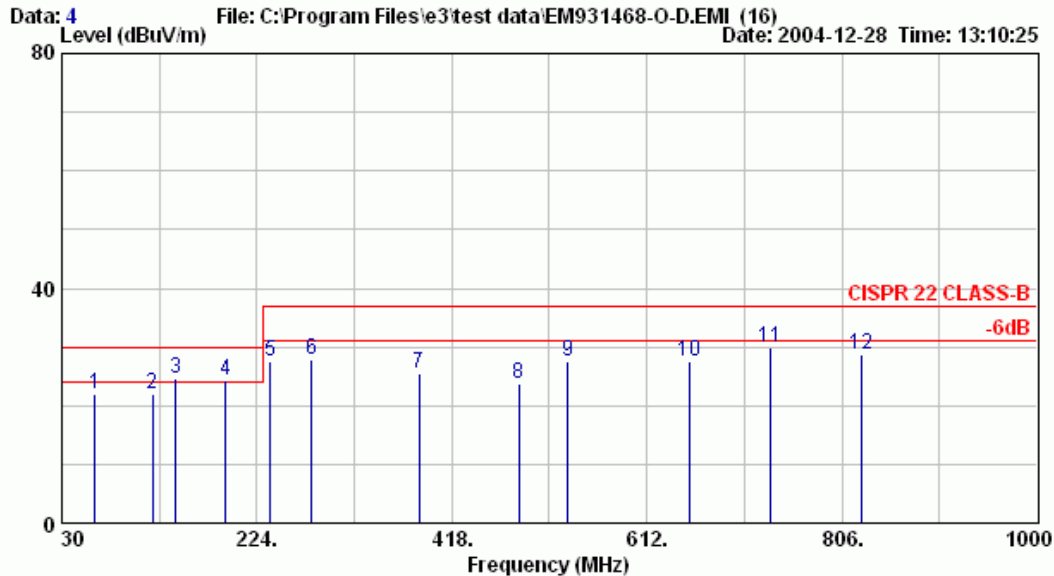
Site no. : No.4 OPEN SITE Data no. : 3
Dis. / Ant. : 10m VBA6106A/UPA6109 Ant. pol. : HORIZONTAL
Limit : CISPR 22 CLASS-B
Env. / Ins. : 17°C/68% ESVS 10 Engineer : Alex Yen
EUT : LCD TV(32") M/N:32MF605W/17
Power Rating : 120Vac/60Hz
Test Mode : 1280*720/60Hz 44.7KHz
LPL S/N:TY0404768

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	38.440	20.08	0.64	4.40	25.12	30.00	4.88	
2	60.969	13.53	0.86	8.42	22.80	30.00	7.20	
3	122.288	19.08	1.12	-0.93	19.27	30.00	10.73	
4	156.811	20.92	1.35	1.57	23.84	30.00	6.16	
5	193.275	21.19	1.70	0.91	23.81	30.00	6.19	
6	244.064	22.95	1.64	0.64	25.23	37.00	11.77	
7	372.273	15.26	2.12	5.85	23.23	37.00	13.77	
8	439.536	16.52	2.32	3.16	22.00	37.00	15.00	
9	533.705	18.28	2.50	6.13	26.91	37.00	10.09	
10	654.778	21.59	2.91	0.41	24.91	37.00	12.09	
11	715.918	21.40	3.08	0.96	25.44	37.00	11.56	
12	775.851	23.12	3.24	1.78	28.14	37.00	8.86	

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



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Site no. : No.4 OPEN SITE Data no. : 4
Dis. / Ant. : 10m VBA6106A/UPA6109 Ant. pol. : VERTICAL
Limit : CISPR 22 CLASS-B
Env. / Ins. : 17°C/68% ESVS 10 Engineer : Alex Yen
EUT : LCD TV(32") M/N:32MF605W/17
Power Rating : 120Vac/60Hz
Test Mode : 1280*720/60Hz 44.7KHz
LPL S/N:TY0404768

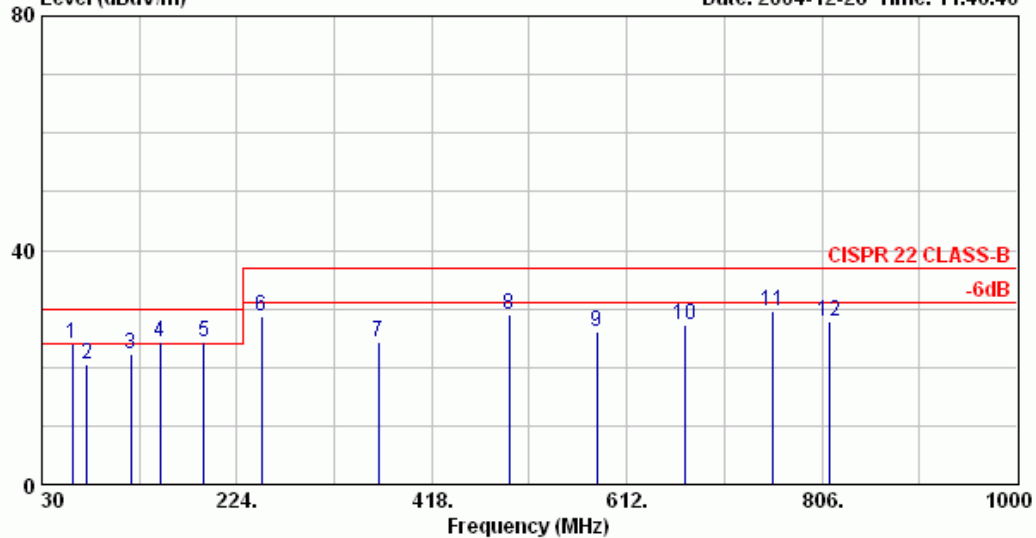
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	62.864	13.94	0.86	7.21	22.01	30.00	7.99	
2	120.284	18.21	1.11	2.73	22.06	30.00	7.94	
3	143.579	20.07	1.35	3.15	24.57	30.00	5.43	
4	193.262	22.32	1.70	0.41	24.42	30.00	5.58	
5	237.747	22.71	1.61	3.23	27.55	37.00	9.45	
6	278.344	23.75	1.73	2.36	27.84	37.00	9.16	
7	385.726	16.53	2.13	6.77	25.43	37.00	11.57	
8	484.932	18.06	2.42	3.39	23.88	37.00	13.12	
9	533.705	19.03	2.50	6.09	27.62	37.00	9.38	
10	654.778	20.89	2.91	3.77	27.57	37.00	9.43	
11	735.494	22.64	3.14	4.17	29.95	37.00	7.05	
12	825.258	24.05	3.34	1.35	28.73	37.00	8.27	

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



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Level (dBuV/m)



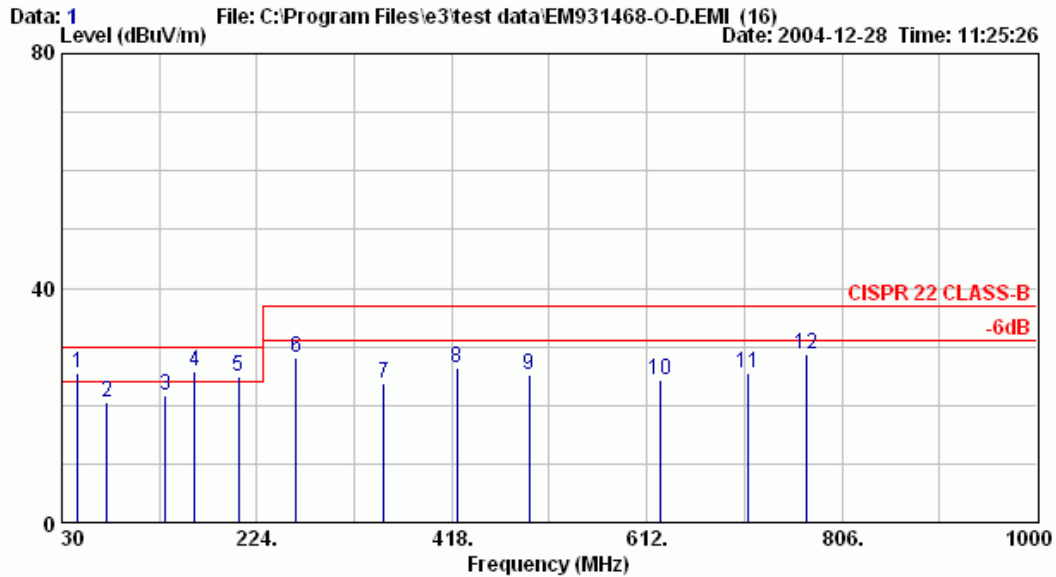
Site no. : No.4 OPEN SITE Data no. : 2
Dis. / Ant. : 10m VBA6106A/UPA6109 Ant. pol. : HORIZONTAL
Limit : CISPR 22 CLASS-B
Env. / Ins. : 17°C/68% ESVS 10 Engineer : Alex Yen
EUT : LCD TV(32") M/N:32MF605W/17
Power Rating : 120Vac/60Hz
Test Mode : 1280*768/60Hz 48KHz
LPL S/N:TY0404768

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	60.221	13.59	0.85	9.51	23.95	30.00	6.05	
2	74.716	13.32	0.91	6.15	20.37	30.00	9.63	
3	118.463	18.91	1.10	2.37	22.39	30.00	7.61	
4	147.452	20.75	1.35	2.27	24.37	30.00	5.63	
5	190.935	21.12	1.68	1.66	24.46	30.00	5.54	*
6	248.913	23.16	1.66	3.90	28.72	37.00	8.28	
7	364.869	15.37	2.11	6.78	24.26	37.00	12.74	
8	495.320	17.58	2.43	8.99	29.00	37.00	8.00	
9	582.287	21.02	2.65	2.53	26.20	37.00	10.80	
10	669.254	22.11	2.96	2.27	27.34	37.00	9.66	
11	756.221	23.11	3.20	3.37	29.68	37.00	7.32	
12	814.199	23.12	3.32	1.38	27.82	37.00	9.18	

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 190.935MHz with corrected signal level of 24.46dBuV/m (limit is 30.0dBuV/m) when the antenna was at horizontal polarization and was at 4m high and the turn table was at 45°.
4. 0° was the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.



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Site no. : No.4 OPEN SITE Data no. : 1
Dis. / Ant. : 10m VBA6106A/UPA6109 Ant. pol. : VERTICAL
Limit : CISPR 22 CLASS-B
Env. / Ins. : 17°C/68% ESVS 10 Engineer : Alex Yen
EUT : LCD TV(32") M/N:32MF605W/17
Power Rating : 120Vac/60Hz
Test Mode : 1280*768/60Hz 48KHz
LPL S/N:TY0404768

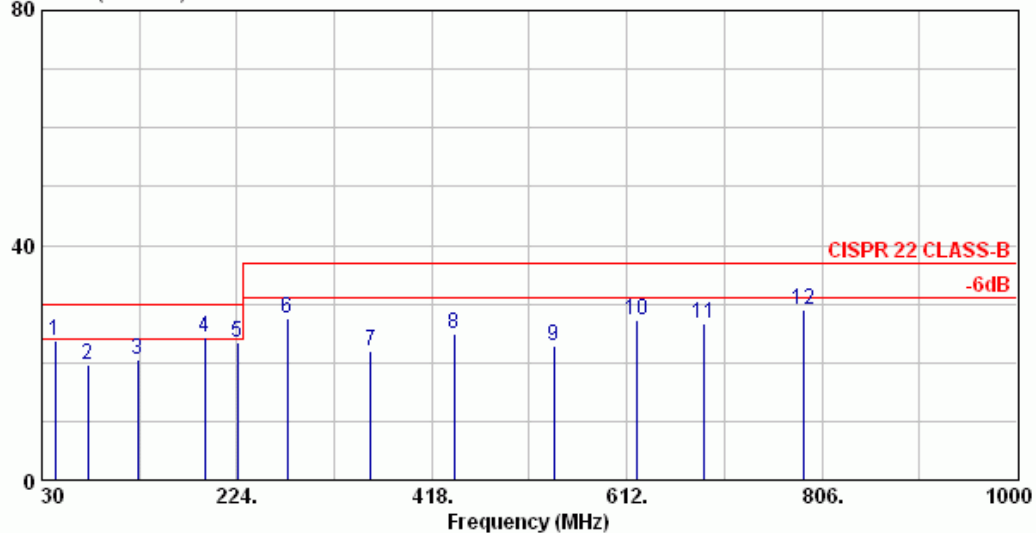
	Freq.	Ant.	Cable		Emission			
	(MHz)	Factor	Loss	Reading	Level	Limits	Margin	Remark
		(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	45.990	17.60	0.71	7.16	25.47	30.00	4.53	
2	74.979	13.52	0.91	6.03	20.46	30.00	9.54	
3	132.957	19.67	1.21	0.95	21.83	30.00	8.17	
4	161.946	20.92	1.36	3.42	25.70	30.00	4.30	*
5	205.430	22.43	1.57	1.02	25.02	30.00	4.98	
6	263.408	24.14	1.72	2.19	28.04	37.00	8.96	
7	350.375	14.90	2.10	6.82	23.82	37.00	13.18	
8	422.847	17.21	2.27	6.95	26.42	37.00	10.58	
9	495.320	17.75	2.43	5.05	25.23	37.00	11.77	
10	625.770	20.05	2.83	1.38	24.26	37.00	12.74	
11	712.737	21.27	3.07	1.13	25.47	37.00	11.53	
12	770.715	23.33	3.22	2.20	28.76	37.00	8.24	

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 161.946MHz with corrected signal level of 25.70dBuV/m (limit is 30.0dBuV/m) when the antenna was at vertical polarization and was at 1m high and the turn table was at 225°.
4. 0°was the table front facing the antenna. Degree is calculated from 0'clockwise facing the antenna.



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Data: 7 File: C:\Program Files\etest\test data\EM931468-O-D.EMI (16) Date: 2004-12-28 Time: 14:09:47



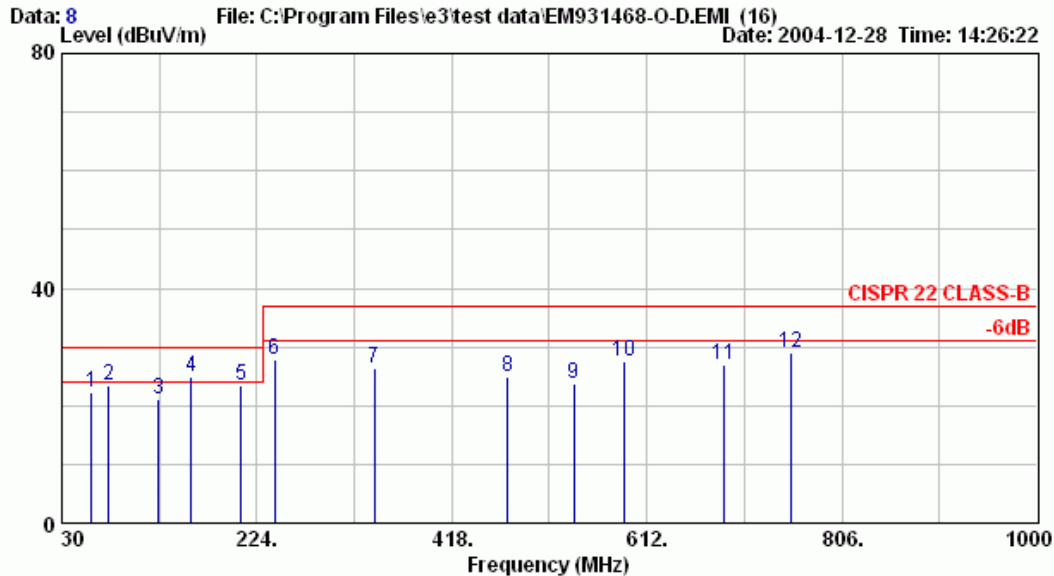
Site no. : No.4 OPEN SITE Data no. : 7
 Dis. / Ant. : 10m VBA6106A/UPA6109 Ant. pol. : HORIZONTAL
 Limit : CISPR 22 CLASS-B
 Env. / Ins. : 17°C/68% ESVS 10 Engineer : Alex Yen
 EUT : LCD TV(32") M/N:32MF605W/17
 Power Rating : 120Vac/60Hz
 Test Mode : PIP
 LPL S/N:TY0404768

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	42.955	18.43	0.69	4.56	23.68	30.00	6.32	
2	75.980	13.45	0.92	5.26	19.62	30.00	10.38	
3	125.614	19.46	1.15	0.01	20.62	30.00	9.38	
4	191.792	21.15	1.69	1.62	24.46	30.00	5.54	
5	224.881	22.01	1.55	-0.06	23.50	30.00	6.50	
6	274.514	24.11	1.73	1.76	27.59	37.00	9.41	
7	357.237	15.36	2.11	4.49	21.96	37.00	15.04	
8	439.959	16.50	2.32	6.00	24.82	37.00	12.18	
9	539.226	18.61	2.52	1.62	22.75	37.00	14.25	
10	621.949	20.91	2.82	3.39	27.12	37.00	9.88	
11	688.127	22.77	3.00	1.03	26.80	37.00	10.20	
12	787.394	23.25	3.26	2.42	28.94	37.00	8.06	

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



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Site no. : No.4 OPEN SITE Data no. : 8
Dis. / Ant. : 10m VBA6106A/UPA6109 Ant. pol. : VERTICAL
Limit : CISPR 22 CLASS-B
Env. / Ins. : 17°C/68% ESVS 10 Engineer : Alex Yen
EUT : LCD TV(32") M/N:32MF605W/17
Power Rating : 120Vac/60Hz
Test Mode : PIP
LPL S/N:TY0404768

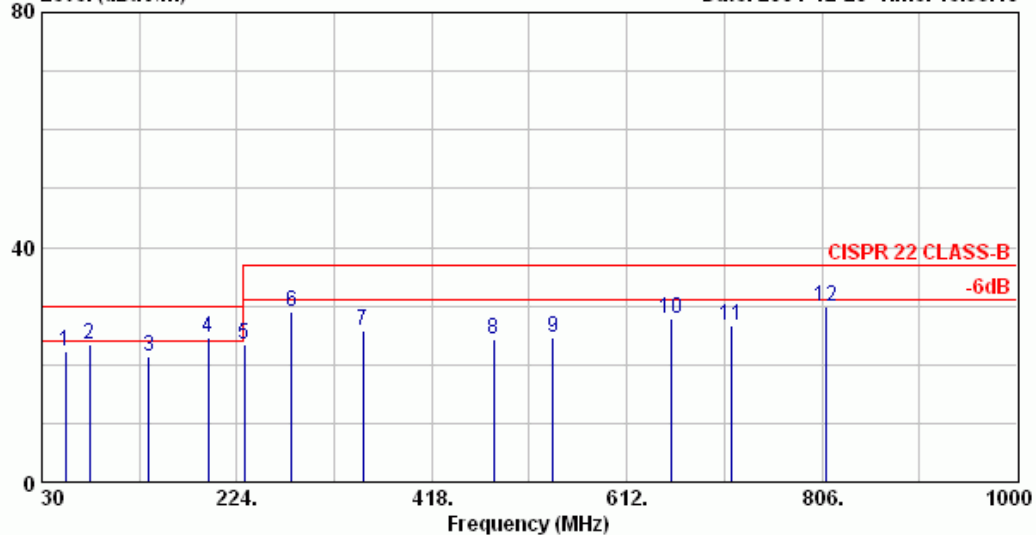
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	59.741	14.02	0.85	7.38	22.25	30.00	7.75	
2	76.285	13.86	0.92	8.81	23.59	30.00	6.41	
3	125.919	18.83	1.15	1.25	21.22	30.00	8.78	
4	159.008	20.82	1.35	2.59	24.76	30.00	5.24	
5	208.641	22.23	1.53	-0.35	23.42	30.00	6.58	
6	241.730	22.50	1.63	3.74	27.87	37.00	9.13	
7	340.997	14.33	2.07	9.90	26.30	37.00	10.70	
8	473.353	18.76	2.41	3.80	24.97	37.00	12.03	
9	539.531	19.42	2.52	1.70	23.64	37.00	13.36	
10	589.165	21.13	2.69	3.64	27.46	37.00	9.54	
11	688.432	22.70	3.00	1.21	26.91	37.00	10.09	
12	754.610	23.50	3.19	2.23	28.92	37.00	8.08	

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



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Data: 14 File: C:\Program Files\test data\EM931468-O-D.EMI (16) Date: 2004-12-28 Time: 16:33:18



Site no. : No.4 OPEN SITE Data no. : 14
Dis. / Ant. : 10m VBA6106A/UPA6109 Ant. pol. : HORIZONTAL
Limit : CISPR 22 CLASS-B
Env. / Ins. : 17°C/68% ESVS 10 Engineer : Alex Yen
EUT : LCD TV(32") M/N:32MF605W/17
Power Rating : 120Vac/60Hz
Test Mode : 640*480/60Hz 31KHz
CPT S/N:TY0404770

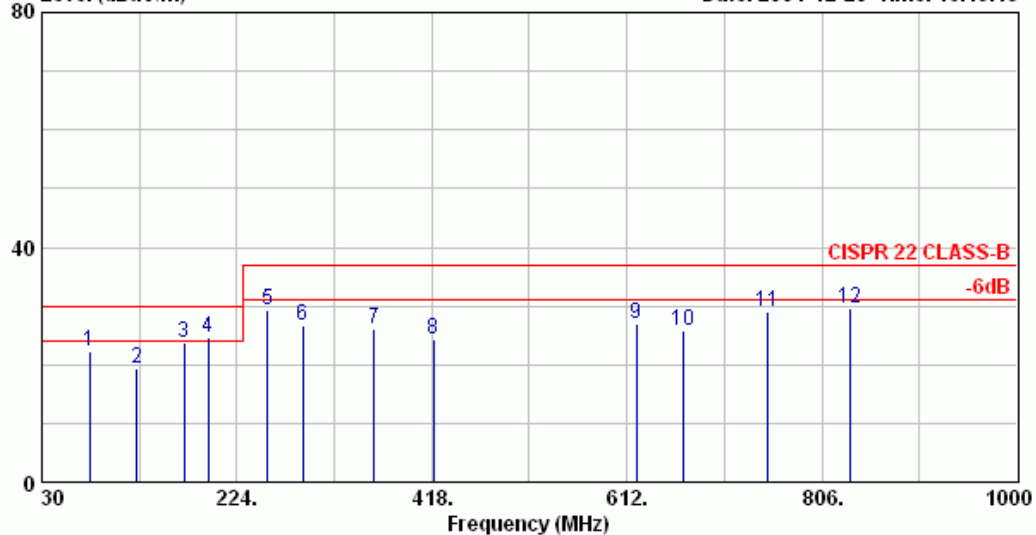
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	53.810	14.75	0.78	6.65	22.18	30.00	7.82	
2	77.462	13.66	0.93	8.76	23.34	30.00	6.66	
3	136.593	20.45	1.26	-0.42	21.29	30.00	8.71	
4	195.723	21.25	1.68	1.63	24.55	30.00	5.45	
5	231.201	22.14	1.58	-0.29	23.42	37.00	13.58	
6	278.506	24.53	1.73	2.63	28.90	37.00	8.10	
7	349.462	14.86	2.10	8.88	25.84	37.00	11.16	
8	479.550	18.05	2.42	3.78	24.25	37.00	12.75	
9	538.680	18.52	2.52	3.63	24.66	37.00	12.34	
10	656.941	21.55	2.92	3.37	27.84	37.00	9.16	
11	716.072	21.40	3.08	2.23	26.71	37.00	10.29	
12	810.680	23.00	3.31	3.52	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.



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Data: 13 File: C:\Program Files\etest\test data\EM931468-O-D.EMI (16) Date: 2004-12-28 Time: 16:19:43



Site no. : No.4 OPEN SITE Data no. : 13
Dis. / Ant. : 10m VBA6106A/UPA6109 Ant. pol. : VERTICAL
Limit : CISPR 22 CLASS-B
Env. / Ins. : 17°C/68% ESVS 10 Engineer : Alex Yen
EUT : LCD TV(32") M/N:32MF605W/17
Power Rating : 120Vac/60Hz
Test Mode : 640*480/60Hz 31KHz
CPT S/N:TY0404770

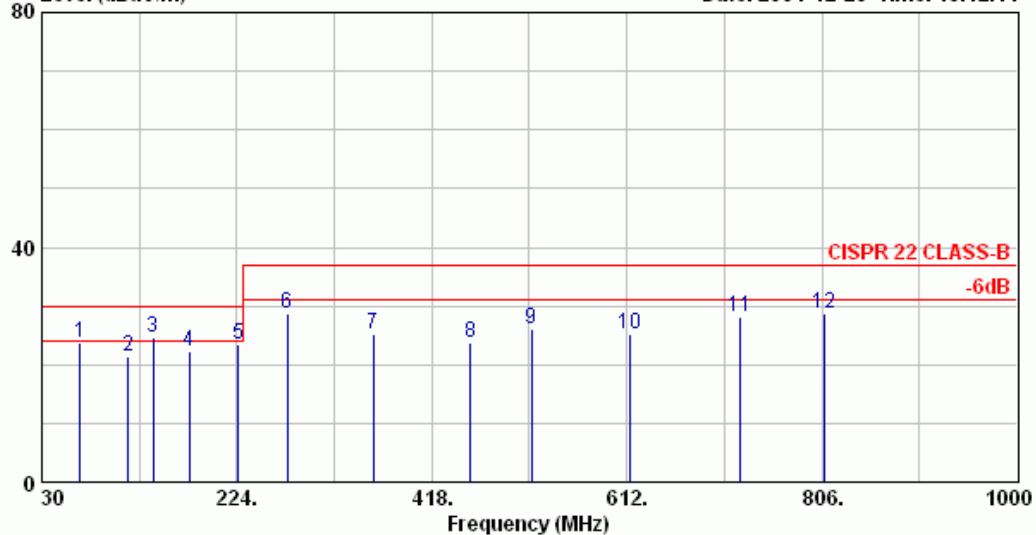
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	77.094	13.98	0.92	7.28	22.19	30.00	7.81	
2	124.398	18.68	1.14	-0.40	19.42	30.00	10.58	
3	171.703	21.74	1.38	0.59	23.71	30.00	6.29	
4	195.355	22.17	1.68	0.74	24.58	30.00	5.42	
5	254.485	23.57	1.69	4.02	29.28	37.00	7.72	
6	289.964	23.54	1.77	1.42	26.73	37.00	10.27	
7	360.920	15.35	2.11	8.55	26.01	37.00	10.99	
8	420.051	17.09	2.25	5.11	24.46	37.00	12.54	
9	621.094	19.95	2.81	4.33	27.09	37.00	9.91	
10	668.399	21.64	2.95	1.19	25.78	37.00	11.22	
11	751.181	23.40	3.18	2.41	28.99	37.00	8.01	
12	833.964	24.71	3.36	1.44	29.51	37.00	7.49	

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



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Data: 11 File: C:\Program Files\etest\test data\EM931468-O-D.EMI (16) Date: 2004-12-28 Time: 15:42:11



Site no. : No.4 OPEN SITE Data no. : 11
Dis. / Ant. : 10m VBA6106A/UPA6109 Ant. pol. : HORIZONTAL
Limit : CISPR 22 CLASS-B
Env. / Ins. : 17°C/68% ESVS 10 Engineer : Alex Yen
EUT : LCD TV(32") M/N:32MF605W/17
Power Rating : 120Vac/60Hz
Test Mode : 1280*720/60Hz 44.7KHz
CPT S/N:TY0404770

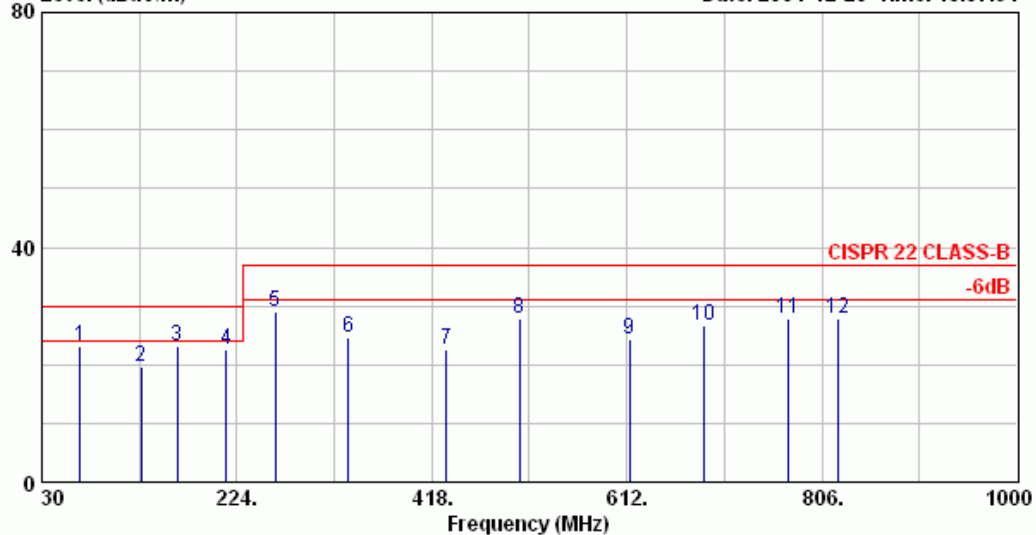
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	67.718	12.59	0.88	10.21	23.68	30.00	6.32	
2	116.336	18.92	1.10	1.48	21.50	30.00	8.50	
3	140.645	20.56	1.31	2.69	24.57	30.00	5.43	
4	177.108	21.04	1.43	-0.31	22.16	30.00	7.84	
5	225.726	22.07	1.55	-0.24	23.38	30.00	6.62	
6	274.343	24.11	1.73	2.77	28.60	37.00	8.40	
7	359.424	15.37	2.11	7.76	25.24	37.00	11.76	
8	456.659	17.39	2.37	3.86	23.62	37.00	13.38	
9	517.431	18.83	2.46	4.89	26.18	37.00	10.82	
10	614.666	20.93	2.78	1.41	25.13	37.00	11.87	
11	724.056	21.73	3.11	3.42	28.26	37.00	8.74	
12	809.137	23.04	3.30	2.37	28.71	37.00	8.29	

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



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Data: 12 File: C:\Program Files\etest\test data\EM931468-O-D.EMI (16) Date: 2004-12-28 Time: 15:57:31
Level (dBuV/m)



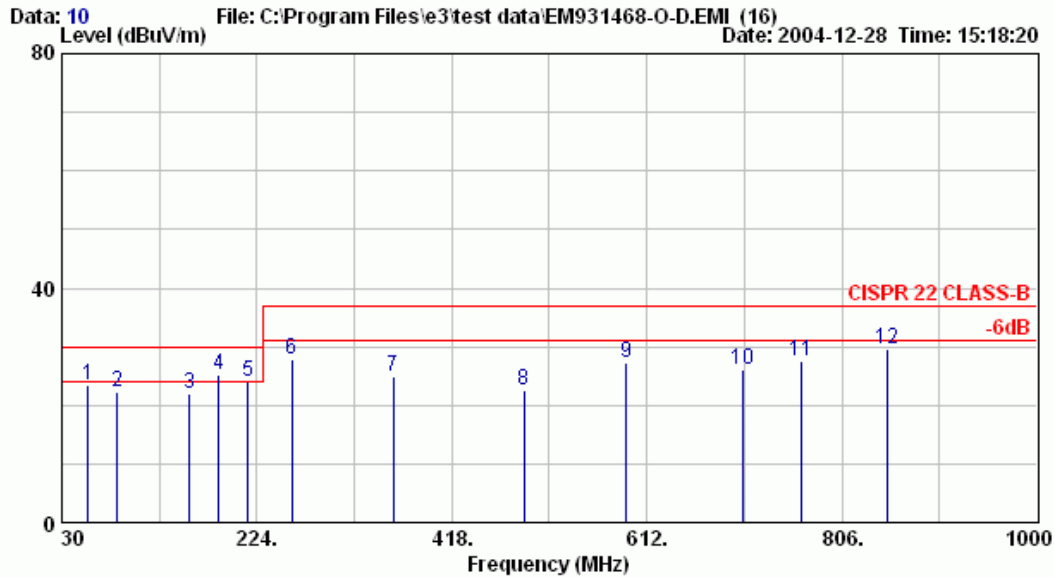
Site no. : No.4 OPEN SITE Data no. : 12
Dis. / Ant. : 10m VBA6106A/UPA6109 Ant. pol. : VERTICAL
Limit : CISPR 22 CLASS-B
Env. / Ins. : 17°C/68% ESVS 10 Engineer : Alex Yen
EUT : LCD TV(32") M/N:32MF605W/17
Power Rating : 120Vac/60Hz
Test Mode : 1280*720/60Hz 44.7KHz
CPT S/N:TY0404770

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	67.746	12.52	0.88	9.87	23.26	30.00	6.74	
2	128.518	19.28	1.16	-0.93	19.51	30.00	10.49	
3	164.981	21.12	1.36	0.71	23.19	30.00	6.81	
4	213.599	21.91	1.50	-0.85	22.55	30.00	7.45	
5	262.216	24.10	1.71	3.13	28.95	37.00	8.05	
6	335.320	14.60	2.03	7.86	24.49	37.00	12.51	
7	432.556	17.15	2.30	2.98	22.42	37.00	14.58	
8	505.482	18.50	2.44	6.84	27.78	37.00	9.22	
9	614.872	19.96	2.78	1.43	24.18	37.00	12.82	
10	687.798	22.66	3.00	1.08	26.74	37.00	10.26	
11	772.879	23.46	3.23	1.10	27.79	37.00	9.21	
12	821.496	23.92	3.33	0.52	27.77	37.00	9.23	

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



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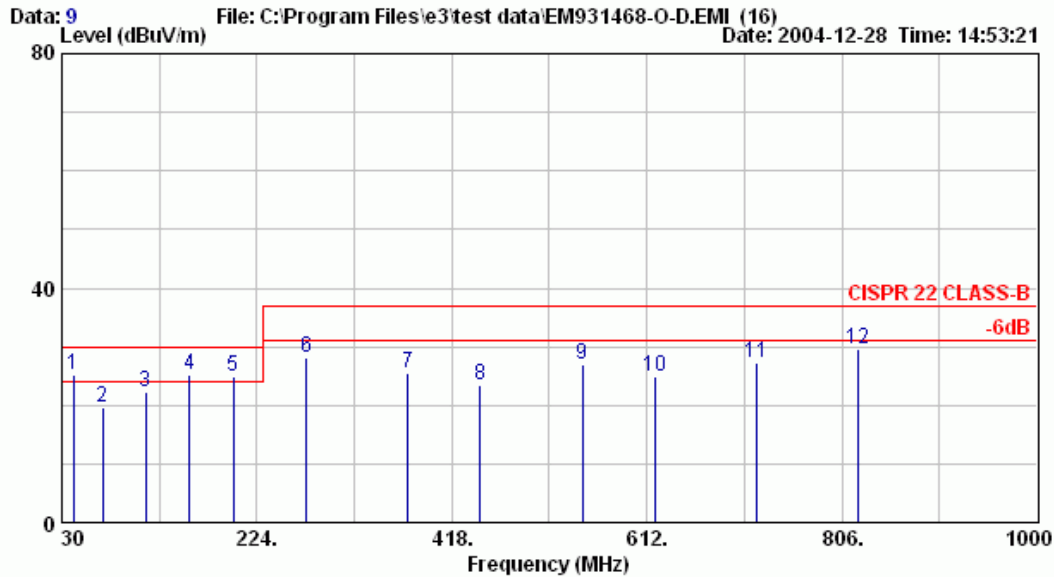
Site no. : No.4 OPEN SITE Data no. : 10
Dis. / Ant. : 10m VBA6106A/UPA6109 Ant. pol. : HORIZONTAL
Limit : CISPR 22 CLASS-B
Env. / Ins. : 17°C/68% ESVS 10 Engineer : Alex Yen
EUT : LCD TV(32") M/N:32MF605W/17
Power Rating : 120Vac/60Hz
Test Mode : 1280*768/60Hz 48KHz
CPT S/N:TY0404770

	Freq.	Ant.	Cable		Emission			
	(MHz)	Factor	Loss	Reading	Level	Limits	Margin	Remark
		(dB/m)	(dB)	(dBμV)	(dBμV/m)	(dBμV/m)	(dB)	
1	56.034	14.27	0.81	8.32	23.40	30.00	6.60	
2	84.963	15.45	0.98	5.78	22.21	30.00	7.79	
3	157.286	20.92	1.35	-0.19	22.08	30.00	7.92	
4	186.215	21.02	1.59	2.56	25.17	30.00	4.83	*
5	215.144	21.44	1.51	0.97	23.92	30.00	6.08	
6	258.537	23.59	1.71	2.50	27.80	37.00	9.20	
7	359.789	15.37	2.11	7.47	24.95	37.00	12.05	
8	489.969	17.51	2.43	2.66	22.60	37.00	14.40	
9	591.221	20.92	2.69	3.53	27.13	37.00	9.87	
10	706.937	21.98	3.06	1.04	26.08	37.00	10.92	
11	764.795	22.89	3.22	1.34	27.45	37.00	9.55	
12	851.582	24.69	3.37	1.54	29.59	37.00	7.41	

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 186.215MHz with corrected signal level of 25.17dBμV/m (limit is 30.0dBμV/m) when the antenna was at horizontal polarization and was at 4m high and the turn table was at 330°.
4. 0°was the table front facing the antenna. Degree is calculated from 0'clockwise facing the antenna.



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Site no. : No.4 OPEN SITE Data no. : 9
Dis. / Ant. : 10m VBA6106A/UPA6109 Ant. pol. : VERTICAL
Limit : CISPR 22 CLASS-B
Env. / Ins. : 17°C/68% ESVS 10 Engineer : Alex Yen
EUT : LCD TV(32") M/N:32MF605W/17
Power Rating : 120Vac/60Hz
Test Mode : 1280*768/60Hz 48KHz
CPT S/N:TY0404770

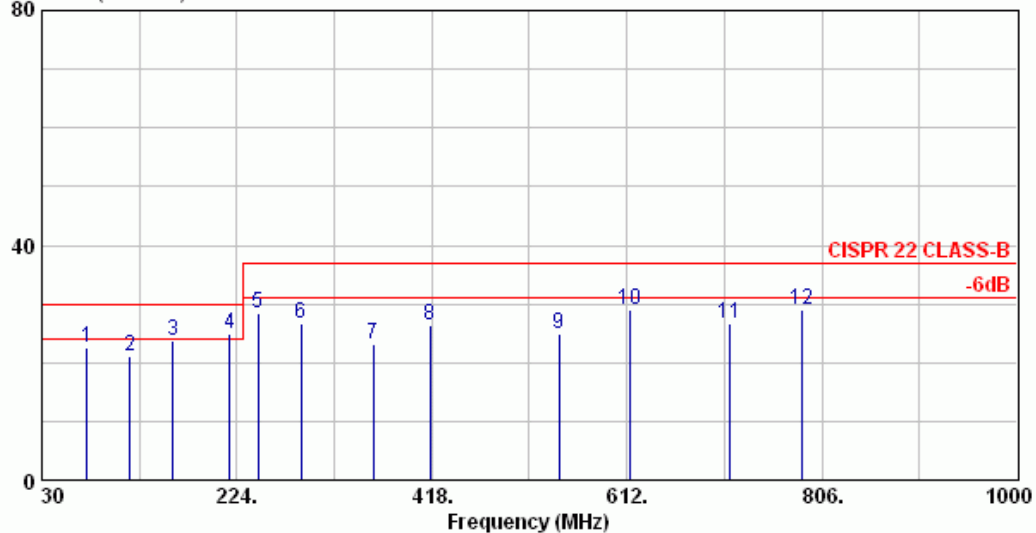
	Freq.	Ant.	Cable		Emission			
	(MHz)	Factor	Loss	Reading	Level	Limits	Margin	Remark
		(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	41.502	19.67	0.68	4.78	25.13	30.00	4.87	
2	70.431	13.13	0.88	5.64	19.65	30.00	10.35	
3	113.825	17.50	1.10	3.71	22.32	30.00	7.68	
4	157.218	20.90	1.35	3.03	25.28	30.00	4.72	*
5	200.612	22.38	1.62	0.98	24.99	30.00	5.01	
6	272.934	24.06	1.73	2.38	28.17	37.00	8.83	
7	374.186	15.41	2.12	7.86	25.39	37.00	11.61	
8	446.508	17.12	2.34	3.96	23.42	37.00	13.58	
9	547.760	19.75	2.54	4.63	26.92	37.00	10.08	
10	620.082	19.94	2.81	2.27	25.02	37.00	11.98	
11	721.334	21.78	3.10	2.46	27.34	37.00	9.66	
12	822.585	23.94	3.34	2.41	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.
3. The worst emission was detected at 157.218MHz with corrected signal level of 25.28dBuV/m (limit is 30.0dBuV/m) when the antenna was at vertical polarization and was at 1m high and the turn table was at 110°.
4. 0° was the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.



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Data: 15 File: C:\Program Files\etest\test data\EM931468-O-D.EMI (16) Date: 2004-12-28 Time: 16:51:55



Site no. : No.4 OPEN SITE Data no. : 15
Dis. / Ant. : 10m VBA6106A/UPA6109 Ant. pol. : HORIZONTAL
Limit : CISPR 22 CLASS-B
Env. / Ins. : 17°C/68% ESVS 10 Engineer : Alex Yen
EUT : LCD TV(32") M/N:32MF605W/17
Power Rating : 120Vac/60Hz
Test Mode : PIP
CPT S/N:TY0404770

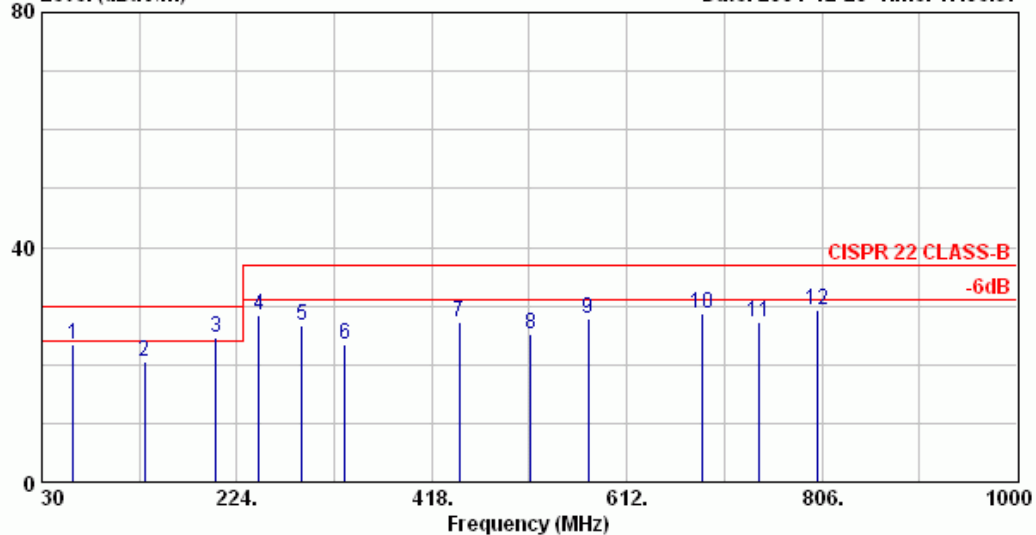
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	74.691	13.32	0.91	8.40	22.62	30.00	7.38	
2	117.387	18.92	1.10	1.00	21.02	30.00	8.98	
3	160.082	20.84	1.35	1.48	23.67	30.00	6.33	
4	217.010	21.49	1.51	1.81	24.81	30.00	5.19	
5	245.474	22.97	1.65	3.80	28.42	37.00	8.58	
6	288.170	24.57	1.76	0.44	26.76	37.00	10.24	
7	359.329	15.37	2.11	5.71	23.19	37.00	13.81	
8	416.257	16.15	2.25	7.92	26.32	37.00	10.68	
9	544.344	18.96	2.53	3.51	25.00	37.00	12.00	
10	615.503	20.93	2.78	5.33	29.04	37.00	7.96	
11	715.127	21.40	3.08	2.17	26.65	37.00	10.35	
12	786.286	23.24	3.26	2.50	29.01	37.00	7.99	

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



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Data: 16 File: C:\Program Files\etest\test data\EM931468-O-D.EMI (16) Date: 2004-12-28 Time: 17:06:37



Site no. : No.4 OPEN SITE Data no. : 16
Dis. / Ant. : 10m VBA6106A/UPA6109 Ant. pol. : VERTICAL
Limit : CISPR 22 CLASS-B
Env. / Ins. : 17°C/68% ESVS 10 Engineer : Alex Yen
EUT : LCD TV(32") M/N:32MF605W/17
Power Rating : 120Vac/60Hz
Test Mode : PIP
CPT S/N:TY0404770

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	61.018	13.99	0.86	8.69	23.54	30.00	6.46	
2	132.178	19.63	1.20	-0.24	20.58	30.00	9.42	
3	203.337	22.14	1.59	0.97	24.70	30.00	5.30	
4	246.033	23.13	1.65	3.74	28.52	37.00	8.48	
5	288.728	23.41	1.76	1.42	26.59	37.00	10.41	
6	331.424	14.29	2.01	7.04	23.33	37.00	13.67	
7	445.279	17.06	2.34	7.94	27.34	37.00	9.66	
8	516.439	18.97	2.46	3.86	25.29	37.00	11.71	
9	573.366	21.00	2.62	4.37	27.98	37.00	9.02	
10	687.222	22.66	3.00	3.20	28.86	37.00	8.14	
11	744.149	23.04	3.16	1.20	27.40	37.00	9.60	
12	801.077	23.49	3.29	2.38	29.16	37.00	7.84	

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】

5. PHOTOGRAPHS

5.1. Photos of Powerline Conducted Measurement

w/LG Philips LCD Panel

Test Mode : D-Sub Input (“H” Pattern)



Test Mode : D-Sub + RF Input (PIP Mode, “H” Pattern + “Color Bar” image)



FRONT VIEW OF CONDUCTED TEST

w/CPT LCD Panel
Test Mode : D-Sub Input (“H” Pattern)



Test Mode : D-Sub + RF Input (PIP Mode, “H” Pattern + “Color Bar” image)



FRONT VIEW OF CONDUCTED TEST



BACK VIEW OF CONDUCTED TEST

5.2. Photos of Radiated Measurement at Open Area Test Site

w/LG Philips LCD Panel

Test Mode : D-Sub Input (“H” Pattern)



Test Mode : D-Sub + RF Input (PIP Mode, “H” Pattern + “Color Bar” image)



FRONT VIEW OF RADIATED TEST

w/CPT LCD Panel
Test Mode : D-Sub Input (“H” Pattern)



Test Mode : D-Sub + RF Input (PIP Mode, “H” Pattern + “Color Bar” image)



FRONT VIEW OF RADIATED TEST



BACK VIEW OF RADIATED TEST

Test Mode: D-Sub Input, 1280*768/60Hz, 48kHz, w/LG Philips LCD Panel



SETUP WITH MAXIMUM DETECTED EMISSION AT HORIZONTAL POLARIZATION



SETUP WITH MAXIMUM DETECTED EMISSION AT VERTICAL POLARIZATION

Test Mode: D-Sub Input, 1280*768/60Hz, 48kHz, w/CPT LCD Panel



SETUP WITH MAXIMUM DETECTED EMISSION AT HORIZONTAL POLARIZATION



SETUP WITH MAXIMUM DETECTED EMISSION AT VERTICAL POLARIZATION