# APPLICATION FOR CERTIFICATION
(Class II Permissive Change)
On Behalf of
Philips Electronics Industries (Taiwan) Ltd.
LCD TV

Model No.：15MF605T/37

Brand : Philips Magnavox

FCC ID: A3KM135

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

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

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| | | |
|---|---|---|
| File Number | : | EM950052 |
| Report Number | : | EM-F950025 |
| Date of Test | : | Feb. 07, 2006 |
| Date of Report | : | Feb. 08, 2006 |

# TABLE OF CONTENTS

# TEST REPORT CERTIFICATION
## (Class II Permissive Change)

| | | |
|---|---|---|
| Applicant | : | Philips Electronics Industries (Taiwan) Ltd. |
| Manufacturer | : | Philips Electronics Industries (Taiwan) Ltd. |
| Factory | : | Philips Consummer Electronics Co., of Suzhou Ltd. |
| EUT Description | : | LCD TV |
| FCC ID | : | A3KM135 |
| | | (A) MODEL NO. : 15MF605T/37 |
| | | (B) SERIAL NO. : TY0406008 |
| | | (C) BRAND NAME : Philips Magnavox |
| | | (D) POWER SUPPLY : 16VDC—, 2.5A |
| | | (E) TEST VOLTAGE : AC 120V/60Hz (Via Power Adapter) |

Measurement Standards and Methods Used :

FCC CFR 47 Part 15 Subpart B/ Sep. 2005
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 : Feb. 07, 2006

Prepared by : Julie Hsu Feb.08.2006
(Julie Hsu/Assistant Administrator)

Test Engineer : Tony Lee Feb.08.2006
(Tony Lee/Section Manager)

Approve & Authorized Signer : Leon Liu Feb. 8 2006
(Leon Liu/Senior Manager)

# 1. GENERAL INFORMATION

## 1.1. Description of Device (EUT)

| | | |
|---|---|---|
| Description | : | LCD TV<br>(The TV Tuner & AV Functions & HD Functions are not available in this test report) |
| Model Number | : | 15MF605T/37 |
| Serial Number | : | TY0406008 |
| FCC ID. | : | A3KM135 |
| Brand | : | Philips Magnavox |
| Applicant | : | Philips Electronics Industries (Taiwan) Ltd.<br>5, Tze Chiang 1 Rd, Chungli Ind. Park, Chungli, Taoyuan Hsien, Taiwan, R.O.C. |
| Manufacturer | : | Philips Electronics Industries (Taiwan) Ltd.<br>5, Tze Chiang 1 Rd, Chungli Ind. Park, Chungli, Taoyuan Hsien, Taiwan, R.O.C. |
| Factory | : | Philips Consummer Electronics Co., of Suzhou Ltd.<br>No. 161, Zhujiang Road, New District, Suzhou 215011, PROC |
| LCD Panel | : | AUO, Type No. T150XG01 |
| Scanning Frequency | : | Horizontal: 30-50kHz<br>Vertical: 56-63Hz |
| Max Resolution | : | 1024*768 / 60Hz, 48.4kHz |
| D-Sub Data Cable | : | Shielded, Detachable, 1.8m<br>Bonded two ferrite Cores |
| Audio Cable | : | Non-Shielded, Detachable, 1.5m<br>Bonded a ferrite Core |

| | | |
|---|---|---|
| Power Adapter | : | Delta, EADP-45AB B<br>AC Input: 100-240V~, 1.5A, 50-60Hz<br>DC Output: 16V, 2.82A<br>Cable: Non-Shielded, Undetachable, 1.8m<br>Bonded a ferrite core |
| Power Cord | : | Non-Shielded, Detachable, 1.8m |
| Data of Receipt of Sample | : | Jan. 12, 2006 |
| Date of Test | : | Feb. 07, 2006 |

**Remark：**
This EUT is a modified version of original FCC ID A3KM135, the differences are as follows:
(1) PCB Relayout.
(2) Added a new Power Adapter (Delta, M/N EADP-45AB B)

## 1.2. Tested Supporting System Details

### 1.2.1. PERSONAL COMPUTER

| | | |
|---|---|---|
| Model Name | : | Dell Dim 4600PC |
| Model Number | : | DMC |
| Serial Number | : | 5dyw913 |
| FCC ID. | : | by FCC DoC |
| BSMI ID | : | R33002 |
| Manufacturer | : | DELL |
| VGA Card | : | Nvidia FX5200 |
| Power Cord | : | Non-shielded, Detachable, 1.8m |

### 1.2.2. KEYBOARD

| | | |
|---|---|---|
| Model Number | : | SK-8110 |
| Serial Number | : | N/A |
| BSMI ID | : | 3912A105 |
| FCC ID | : | by DoC |
| Manufacturer | : | DELL |
| Data Cable | : | Non-Shielded, Undetachable, 2m |

1.2.3. PS2 MOUSE

| | | |
|---|---|---|
| Model Number | : | M-S69 |
| Serial Number | : | N/A |
| BSMI ID | : | 3892D101 |
| FCC ID | : | by DoC |
| Manufacturer | : | COMPAQ |
| Data Cable | : | Non-Shielded, Undetachable, 1.8m |

1.2.4. 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 |

1.2.5. MODEM

| | | |
|---|---|---|
| Model Number | : | DM-1414 |
| Serial Number | : | 980034384 |
| FCC ID | : | IFAXDM1414 |
| Manufacturer | : | Accex |
| Data Cable | : | Shielded, Detachable, 1.2m |
| Power Adapter | : | Amigo, M/N AM-91000A<br>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 | : | 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 | : | PM5415TX+Y/C |
| Type Number | : | LO732610 |
| Manufacturer | : | FLUKE |
| Coaxial Cable | : | Shielded, Detachable, 2m |
| Power Cord | : | Non-Shielded, Detachable, 1.8m |

## 1.3. Description of Test Facility

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

Test Facility & Location (C4/R4) **:** **No. 4 Shielded Room**
No. 67-4, Tin-Fu Tsun, Lin-Kou Hsiang,
Taipei Hsien 24443, Taiwan, R.O.C.

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

March 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) |
|---|---|---|
| Conduction Test | 150kHz~30MHz | ±1.73dB |
| Radiation Test (Distance: 10m) | 30MHz~300MHz | ±2.99dB |
| | 300MHz~1000MHz | ±2.73dB |

Remark：Uncertainty = $ku_c(y)$

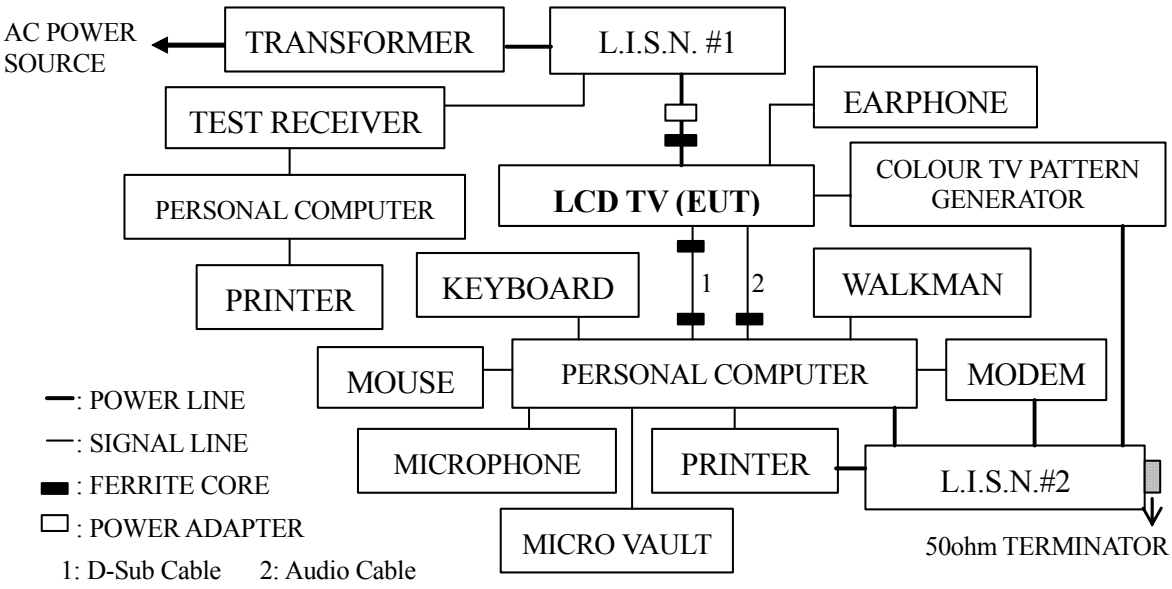
# 2. POWERLINE CONDUCTED EMISSION MEASUREMENT

## 2.1. Test Equipment

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

| Item | Type | Manufacturer | Model No. | Serial No. | Last Cal. | Next Cal. |
|---|---|---|---|---|---|---|
| 1. | Test Receiver | Rohde & Schwarz | ESHS10 | 844591/015 | Mar.05, 05’ | Mar.04, 06’ |
| 2. | L.I.S.N. # 1 | Kyoritsu | KNW-407 | 8-1430-5 | Sep.27, 05’ | Sep.26, 06’ |
| 3. | L.I.S.N. # 2 | Kyoritsu | KNW-407 | 8-1430-6 | Sep.27, 05’ | Sep.26, 06’ |
| 4. | Pulse Limiter | Rohde & Schwarz | ESH3-Z2 | 004 | 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. LCD TV (EUT)

| | | |
|---|---|---|
| Model Number | : | 15MF605T/37 |
| Serial Number | : | TY0405207 |
| FCC ID | : | A3KM135 |
| Manufacturer | : | Philips Electronics Industries (Taiwan) Ltd. |
| LCD Panel | : | AUO, Type No. T150XG01 |
| D-Sub Data Cable | : | Shielded, Detachable, 1.8m<br>Bonded two ferrite Cores |
| Audio Cable | : | Non-Shielded, Detachable, 1.5m<br>Bonded a ferrite Core |
| Power Adapter | : | Delta, EADP-45AB B<br>AC Input: 100-240V~, 1.5A, 50-60Hz<br>DC Output: 16V, 2.82A<br>Cable: Non-Shielded, Undetachable, 1.8m<br>Bonded a ferrite core |
| Power Cord | : | Non-Shielded, Detachable, 1.8m |

2.4.2. Supporting System : As in Section 1.2

## 2.5. Operating Condition of EUT

2.5.1. Setup the EUT and simulator as shown on 2.2.

2.5.2. Turned on the power of all equipments.

2.5.3. Personal computer read data from disk.

2.5.4. The PC System running the test program "Testpatv 18" by Windows XP and the screen of EUT displayed "H" pattern by EUT's resolution via D-Sub Input.

2.5.5. The PC System running the program "Windows Media Player" and sent the sound to earphone of EUT during all testing.

2.5.6. The PC System read data from FDD and then wrote data into FDD, same operation from HDD、Modem.

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

2.5.8. Repeat above procedure from 2.5.3 to 2.5.7.

## 2.6. Test Procedure

The EUT was connected to the power mains through a line impedance stabilization network (L.I.S.N. #1). The other peripheral devices power cord connected to the power mains through a line impedance stabilization network (L.I.S.N. #2). This provided a 50ohm coupling impedance for the measuring equipment. (Please refer to the block diagram of the test setup and photographs.)
Both sides of A.C. line were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to FCC ANSI C63.4-2003 on conducted measurement.

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

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. Powerline Conducted 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 this section testing and all the test results are listed in next pages.

Test Date： Feb. 07, 2006 Temperature：19℃ Humidity：48％

| Mode | Input Port | Frequency / Resolution | Reference Data No. | |
|---|---|---|---|---|
| | | | Neutral | Line |
| 1. | D-Sub | 640*480/60Hz, 31kHz | # 6 | # 5 |
| 2. | | 800*600/60Hz, 38kHz | # 3 | # 4 |
| 3. | | 1024*768/60Hz, 48kHz | # 2 | # 1 |

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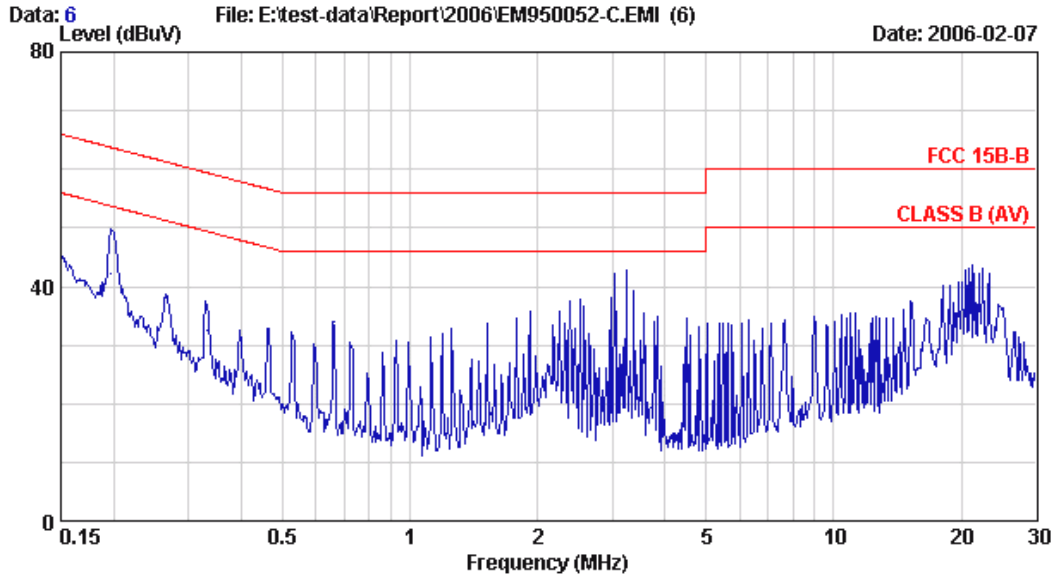


Site : NO.4 Shielded Room
Condition : KNW-407
Limit : FCC 15B-B
Env. / Ins. : 19*C/ 48% ESHS10
EUT : LCD TV M/N:15MF605T/37
Power Rating : 120Vac/60Hz
Test Mode : 640*480/60Hz;31KHz

Data : 6
Phase : NEUTRAL
Engineer: Allen Hsia

| | Freq. (MHz) | LISN Factor (dB) | Cable Loss (dB) | Reading (dBμV) | Emission Level (dBμV) | Limits (dBμV) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|
| 1 | 0.197 | 0.21 | 0.21 | 48.39 | 48.80 | 63.74 | 14.94 | QP |
| 2 | 0.197 | 0.21 | 0.21 | 41.79 | 42.20 | 53.74 | 11.54 | AVERAGE |
| 3 | 0.331 | 0.13 | 0.24 | 36.20 | 36.57 | 59.43 | 22.86 | QP |
| 4 | 0.331 | 0.13 | 0.24 | 32.12 | 32.49 | 49.43 | 16.94 | AVERAGE |
| 5 | 0.663 | 0.10 | 0.32 | 33.52 | 33.94 | 56.00 | 22.06 | QP |
| 6 | 0.663 | 0.10 | 0.32 | 32.74 | 33.16 | 46.00 | 12.84 | AVERAGE |
| 7 | 2.517 | 0.10 | 0.50 | 35.51 | 36.11 | 56.00 | 19.89 | QP |
| 8 | 2.517 | 0.10 | 0.50 | 32.41 | 33.01 | 46.00 | 12.99 | AVERAGE |
| 9 | 3.248 | 0.10 | 0.55 | 41.98 | 42.63 | 56.00 | 13.37 | QP |
| 10 | 3.248 | 0.10 | 0.55 | 33.25 | 33.90 | 46.00 | 12.10 | AVERAGE |
| 11 | 21.142 | 0.33 | 0.70 | 39.81 | 40.84 | 60.00 | 19.16 | QP |
| 12 | 21.142 | 0.33 | 0.70 | 32.26 | 33.29 | 50.00 | 16.71 | 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.

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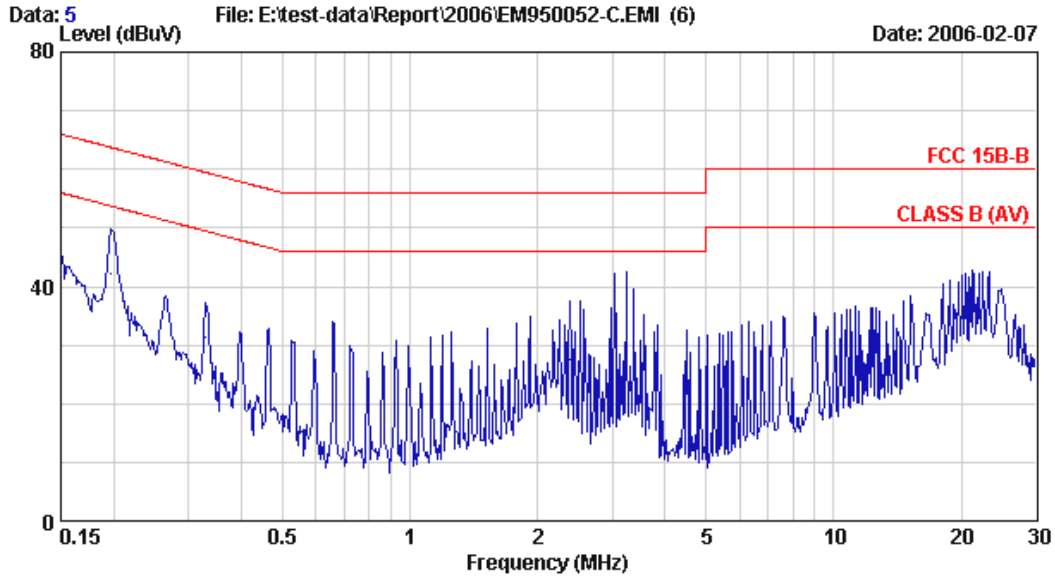


Site : NO.4 Shielded Room
Condition : KNW-407
Limit : FCC 15B-B
Env. / Ins. : 19*C/ 48% ESHS10
EUT : LCD TV M/N:15MF605T/37
Power Rating : 120Vac/60Hz
Test Mode : 640*480/60Hz;31KHz

Data : 5
Phase : LINE
Engineer: Allen Hsia

| | Freq. (MHz) | LISN Factor (dB) | Cable Loss (dB) | Reading (dBμV) | Emission Level (dBμV) | Limits (dBμV) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|
| 1 | 0.198 | 0.20 | 0.21 | 48.71 | 49.12 | 63.71 | 14.59 | QP |
| 2 | 0.198 | 0.20 | 0.21 | 41.86 | 42.27 | 53.71 | 11.44 | AVERAGE |
| 3 | 0.330 | 0.13 | 0.24 | 35.58 | 35.95 | 59.46 | 23.51 | QP |
| 4 | 0.330 | 0.13 | 0.24 | 31.02 | 31.39 | 49.46 | 18.07 | AVERAGE |
| 5 | 0.664 | 0.10 | 0.32 | 33.08 | 33.50 | 56.00 | 22.50 | QP |
| 6 | 0.664 | 0.10 | 0.32 | 32.33 | 32.75 | 46.00 | 13.25 | AVERAGE |
| 7 | 2.386 | 0.10 | 0.49 | 33.08 | 33.67 | 56.00 | 22.33 | QP |
| 8 | 2.386 | 0.10 | 0.49 | 27.01 | 27.60 | 46.00 | 18.40 | AVERAGE |
| 9 | 3.246 | 0.10 | 0.55 | 41.76 | 42.41 | 56.00 | 13.59 | QP |
| 10 | 3.246 | 0.10 | 0.55 | 32.78 | 33.43 | 46.00 | 12.57 | AVERAGE |
| 11 | 21.141 | 0.33 | 0.70 | 39.67 | 40.70 | 60.00 | 19.30 | QP |
| 12 | 21.141 | 0.33 | 0.70 | 34.12 | 35.15 | 50.00 | 14.85 | 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.

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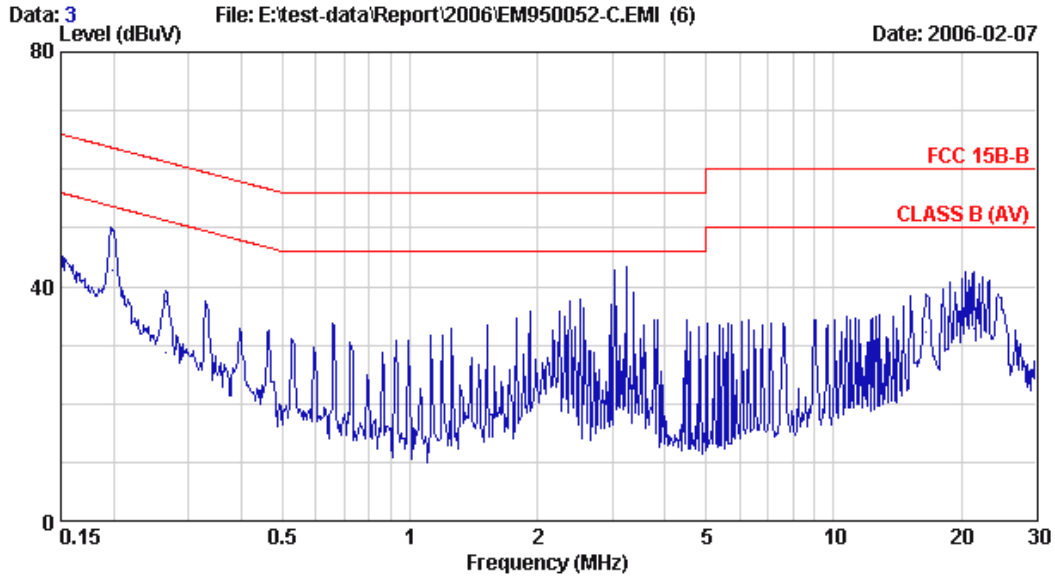


Site : NO.4 Shielded Room
Condition : KNW-407
Limit : FCC 15B-B
Env. / Ins. : 19*C/ 48% ESHS10
EUT : LCD TV M/N:15MF605T/37
Power Rating : 120Vac/60Hz
Test Mode : 800*600/60Hz;38KHz

Data : 3
Phase : NEUTRAL
Engineer: Allen Hsia

| | Freq. (MHz) | LISN Factor (dB) | Cable Loss (dB) | Reading (dBμV) | Emission Level (dBμV) | Limits (dBμV) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|
| 1 | 0.198 | 0.20 | 0.21 | 49.13 | 49.54 | 63.69 | 14.15 | QP |
| 2 | 0.198 | 0.20 | 0.21 | 42.27 | 42.68 | 53.69 | 11.01 | AVERAGE |
| 3 | 0.266 | 0.16 | 0.23 | 37.21 | 37.60 | 61.25 | 23.65 | QP |
| 4 | 0.266 | 0.16 | 0.23 | 28.41 | 28.80 | 51.25 | 22.45 | AVERAGE |
| 5 | 0.664 | 0.10 | 0.32 | 32.88 | 33.30 | 56.00 | 22.70 | QP |
| 6 | 0.664 | 0.10 | 0.32 | 32.01 | 32.43 | 46.00 | 13.57 | AVERAGE |
| 7 | 3.247 | 0.10 | 0.55 | 42.18 | 42.83 | 56.00 | 13.17 | QP |
| 8 | 3.247 | 0.10 | 0.55 | 33.36 | 34.01 | 46.00 | 11.99 | AVERAGE |
| 9 | 16.571 | 0.24 | 0.70 | 36.73 | 37.67 | 60.00 | 22.33 | QP |
| 10 | 16.571 | 0.24 | 0.70 | 31.44 | 32.38 | 50.00 | 17.62 | AVERAGE |
| 11 | 21.476 | 0.33 | 0.70 | 39.01 | 40.04 | 60.00 | 19.96 | QP |
| 12 | 21.476 | 0.33 | 0.70 | 31.82 | 32.85 | 50.00 | 17.15 | 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.

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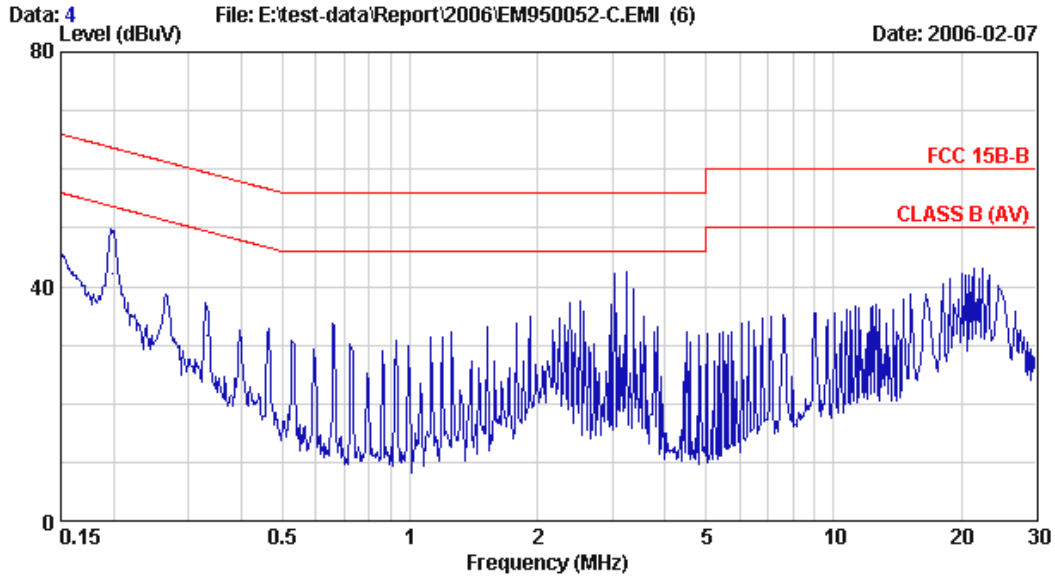


Site : NO.4 Shielded Room
Condition : KNW-407
Limit : FCC 15B-B
Env. / Ins. : 19*C/ 48% ESHS10
EUT : LCD TV M/N:15MF605T/37
Power Rating : 120Vac/60Hz
Test Mode : 800*600/60Hz;38KHz

Data : 4
Phase : LINE
Engineer: Allen Hsia

| | Freq. (MHz) | LISN Factor (dB) | Cable Loss (dB) | Reading (dBμV) | Emission Level (dBμV) | Limits (dBμV) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|
| 1 | 0.198 | 0.20 | 0.21 | 48.83 | 49.24 | 63.70 | 14.46 | QP |
| 2 | 0.198 | 0.20 | 0.21 | 41.88 | 42.29 | 53.70 | 11.41 | AVERAGE |
| 3 | 0.331 | 0.13 | 0.24 | 35.96 | 36.33 | 59.44 | 23.11 | QP |
| 4 | 0.331 | 0.13 | 0.24 | 31.19 | 31.56 | 49.44 | 17.88 | AVERAGE |
| 5 | 0.665 | 0.10 | 0.32 | 32.42 | 32.84 | 56.00 | 23.16 | QP |
| 6 | 0.665 | 0.10 | 0.32 | 31.61 | 32.03 | 46.00 | 13.97 | AVERAGE |
| 7 | 2.518 | 0.10 | 0.50 | 34.01 | 34.61 | 56.00 | 21.39 | QP |
| 8 | 2.518 | 0.10 | 0.50 | 30.52 | 31.12 | 46.00 | 14.88 | AVERAGE |
| 9 | 3.248 | 0.10 | 0.55 | 41.66 | 42.31 | 56.00 | 13.69 | QP |
| 10 | 3.248 | 0.10 | 0.55 | 32.76 | 33.41 | 46.00 | 12.59 | AVERAGE |
| 11 | 21.474 | 0.33 | 0.70 | 39.37 | 40.40 | 60.00 | 19.60 | QP |
| 12 | 21.474 | 0.33 | 0.70 | 33.92 | 34.95 | 50.00 | 15.05 | 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.

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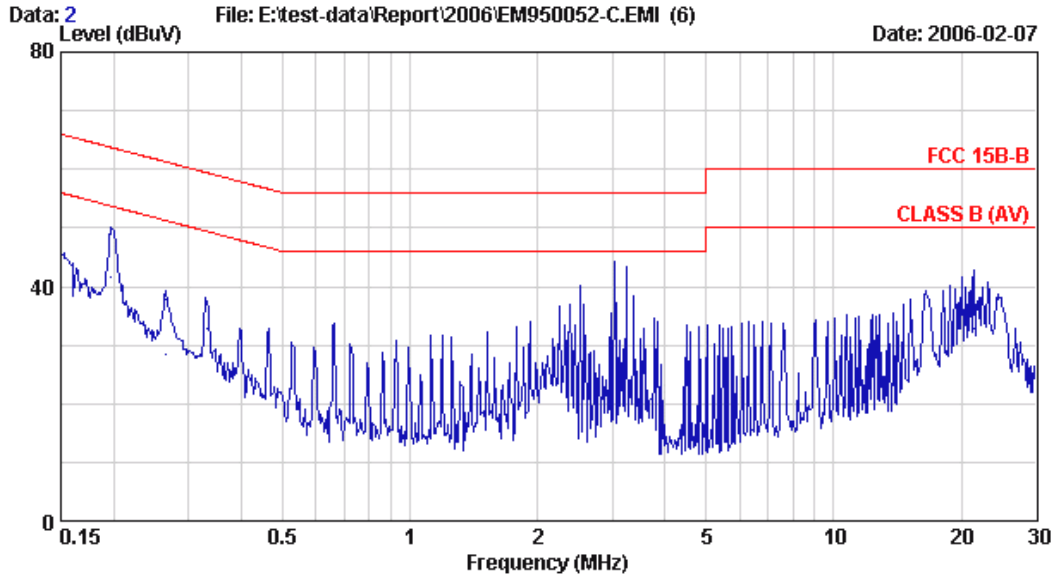


Site : NO.4 Shielded Room
Condition : KNW-407
Limit : FCC 15B-B
Env. / Ins. : 19*C/ 48% ESHS10
EUT : LCD TV M/N:15MF605T/37
Power Rating : 120Vac/60Hz
Test Mode : 1024*768/60Hz;48KHz

Data : 2
Phase : NEUTRAL
Engineer: Allen Hsia

| | Freq. (MHz) | LISN Factor (dB) | Cable Loss (dB) | Reading (dBμV) | Emission Level (dBμV) | Limits (dBμV) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|
| 1 | 0.197 | 0.21 | 0.21 | 48.57 | 48.98 | 63.74 | 14.76 | QP |
| 2 | 0.197 | 0.21 | 0.21 | 41.31 | 41.72 | 53.74 | 12.02 | AVERAGE |
| 3 | 0.264 | 0.16 | 0.23 | 37.37 | 37.76 | 61.30 | 23.54 | QP |
| 4 | 0.264 | 0.16 | 0.23 | 28.05 | 28.44 | 51.30 | 22.86 | AVERAGE |
| 5 | 0.331 | 0.13 | 0.24 | 36.94 | 37.31 | 59.43 | 22.12 | QP |
| 6 | 0.331 | 0.13 | 0.24 | 32.31 | 32.68 | 49.43 | 16.75 | AVERAGE |
| 7 | 0.662 | 0.10 | 0.32 | 33.42 | 33.84 | 56.00 | 22.16 | QP |
| 8 | 0.662 | 0.10 | 0.32 | 32.20 | 32.62 | 46.00 | 13.38 | AVERAGE |
| 9 | 3.049 | 0.10 | 0.54 | 41.98 | 42.62 | 56.00 | 13.38 | QP |
| 10 | 3.049 | 0.10 | 0.54 | 34.37 | 35.01 | 46.00 | 10.99 | AVERAGE |
| 11 | 21.476 | 0.33 | 0.70 | 39.13 | 40.16 | 60.00 | 19.84 | QP |
| 12 | 21.476 | 0.33 | 0.70 | 31.84 | 32.87 | 50.00 | 17.13 | 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.

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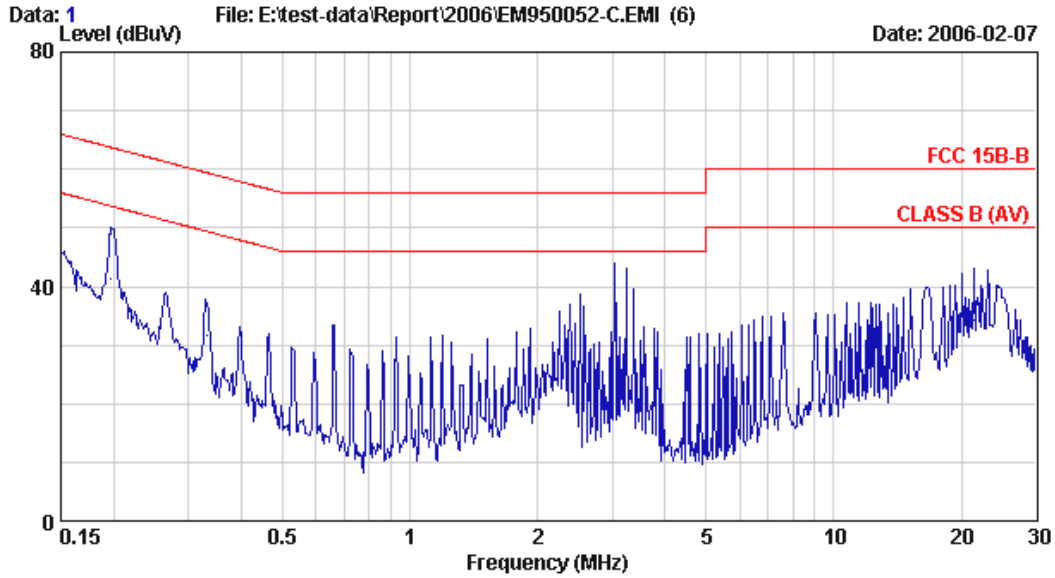



Site : NO.4 Shielded Room
Condition : KNW-407
Limit : FCC 15B-B
Env. / Ins. : 19*C/ 48% ESHS10
EUT : LCD TV M/N:15MF605T/37
Power Rating : 120Vac/60Hz
Test Mode : 1024*768/60Hz;48KHz

Data : 1
Phase : LINE
Engineer: Allen Hsia

| | Freq. (MHz) | LISN Factor (dB) | Cable Loss (dB) | Reading (dBμV) | Emission Level (dBμV) | Limits (dBμV) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|
| 1 | 0.197 | 0.21 | 0.21 | 48.59 | 49.00 | 63.75 | 14.74 | QP |
| 2 | 0.197 | 0.21 | 0.21 | 40.92 | 41.33 | 53.75 | 12.41 | AVERAGE |
| 3 | 0.331 | 0.13 | 0.24 | 36.62 | 36.99 | 59.43 | 22.44 | QP |
| 4 | 0.331 | 0.13 | 0.24 | 31.27 | 31.64 | 49.43 | 17.79 | AVERAGE |
| 5 | 0.663 | 0.10 | 0.32 | 32.86 | 33.28 | 56.00 | 22.72 | QP |
| 6 | 0.663 | 0.10 | 0.32 | 31.70 | 32.12 | 46.00 | 13.88 | AVERAGE |
| 7 | 2.519 | 0.10 | 0.50 | 35.21 | 35.81 | 56.00 | 20.19 | QP |
| 8 | 2.519 | 0.10 | 0.50 | 28.61 | 29.21 | 46.00 | 16.79 | AVERAGE |
| 9 | 3.049 | 0.10 | 0.54 | 41.50 | 42.14 | 56.00 | 13.86 | QP |
| 10 | 3.049 | 0.10 | 0.54 | 32.94 | 33.58 | 46.00 | 12.42 | AVERAGE |
| 11 | 21.477 | 0.33 | 0.70 | 39.19 | 40.22 | 60.00 | 19.78 | QP |
| 12 | 21.477 | 0.33 | 0.70 | 33.11 | 34.14 | 50.00 | 15.86 | 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

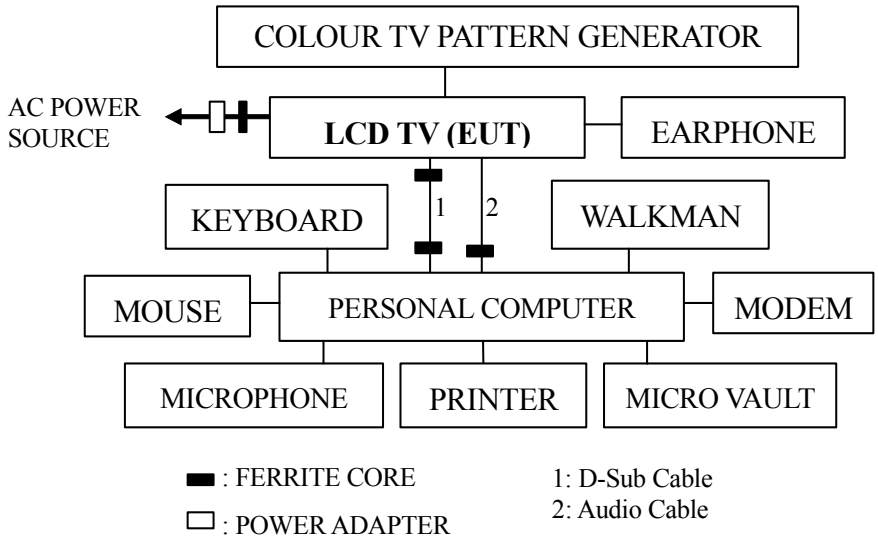
## 3.1. Test Equipment

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

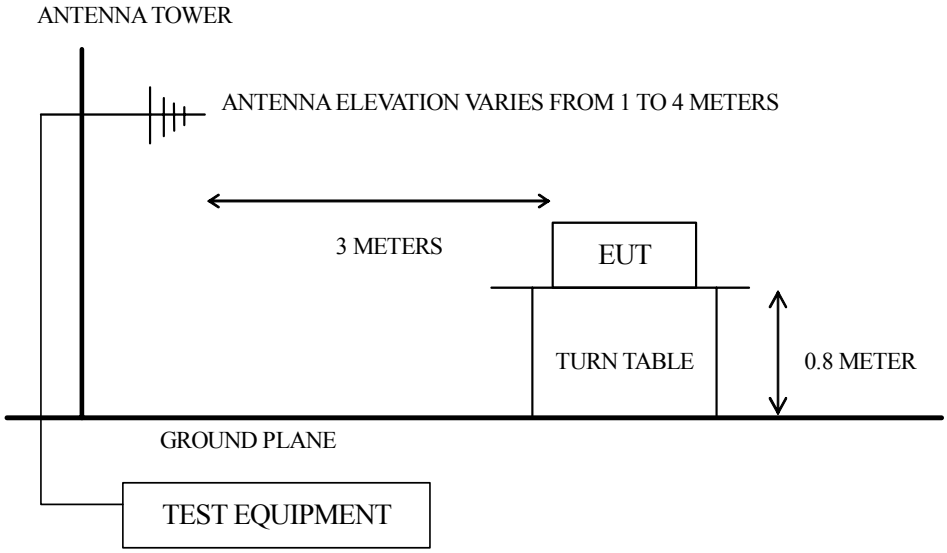
| Item | Type | Manufacturer | Model No. | Serial No. | Last Cal. | Next Cal. |
|---|---|---|---|---|---|---|
| 1. | Spectrum Analyzer | HP | 8590L | 3624A01446 | N/A | N/A |
| 2. | Test Receiver | Rohde&Schwarz | ESVS10 | 845165/018 | Jun.08, 05’ | Jun.07, 06’ |
| 3. | Amplifier | HP | 8447D | 2727A05737 | N/A | N/A |
| 4. | Broadband Antenna | Chase | VBA6106A | 1231 | Nov.12, 05’ | Nov.11, 06’ |
| 5. | Log Periodic Antenna | Chase | UPA6109 | 1020 | Nov.12, 05’ | Nov.11, 06’ |

## 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, 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 | Distance | Field Strength Limit | |
|---|---|---|---|
| MHz | Meter | μV/m | dBμV/m |
| 30 ~ 88 | 3 | 100 | 40.0 |
| 88 ~ 216 | 3 | 150 | 43.5 |
| 216 ~ 960 | 3 | 200 | 46.0 |
| Above 960 | 3 | 500 | 54.0 |

Remark： (1) Emission level (dBμV/m) = 20 log Emission level (μV/m)
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 device or system.
(3) FCC limit is used based on CFR 47 Part 15.35 (b).

## 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 3 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 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.

EUT with the selected as following test modes were performed during radiated measurement and all the test results are attached next pages.

Test Date： Feb. 07, 2006 Temperature：18℃ Humidity：64%

| | Mode | Input Port | Frequency / Resolution | Reference Data No. | |
|---|---|---|---|---|---|
| | | | | Horizontal | Vertical |
| | 1. | D-Sub | 640*480/60Hz, 31kHz | # 2 | # 1 |
| | 2. | | 800*600/60Hz, 38kHz | # 3 | # 4 |
| ※ | **3.** | | **1024*768/60Hz, 48kHz** | **# 5** | **# 6** |

(※ mode for maximum detected emission)

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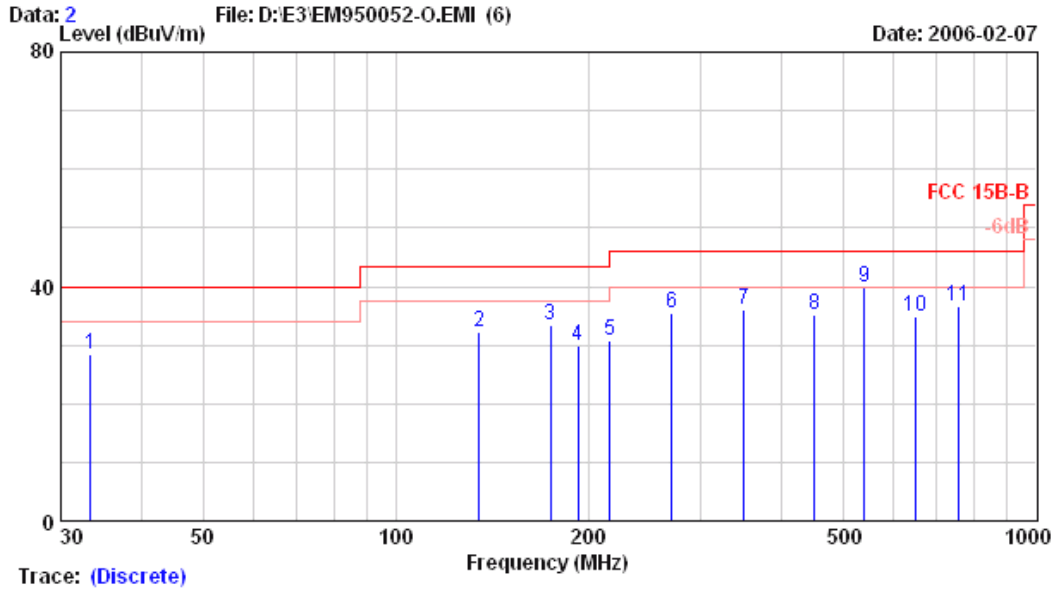


Site no. : NO.4 Open Site Data no. : 2
Dis. / Ant. : 3m VBA6106A/UPA6109 Ant. pol. : HORIZONTAL
Limit : FCC 15B-B
Env. / Ins. : 18*C / 64% ESVS 10 Engineer : Allen Hsia
EUT : LCD TV M/N:15MF605T/37
Power Rating : 120Vac / 60Hz
Test Mode : 640*480 / 60Hz;31KHz

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBµV) | Emission Level (dBµV/m) | Limits (dBµV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|
| 1 | 33.328 | 21.08 | 0.88 | 6.44 | 28.40 | 40.00 | 11.60 | |
| 2 | 134.980 | 20.07 | 1.74 | 10.47 | 32.28 | 43.50 | 11.22 | |
| 3 | 174.472 | 20.84 | 1.98 | 10.48 | 33.30 | 43.50 | 10.20 | |
| 4 | 192.875 | 20.88 | 2.15 | 6.85 | 29.88 | 43.50 | 13.62 | |
| 5 | 216.321 | 21.12 | 2.30 | 7.32 | 30.74 | 46.00 | 15.26 | |
| 6 | 270.325 | 23.40 | 2.62 | 9.55 | 35.57 | 46.00 | 10.43 | |
| 7 | 350.459 | 14.43 | 3.14 | 18.48 | 36.05 | 46.00 | 9.95 | |
| 8 | 450.682 | 16.27 | 3.70 | 15.33 | 35.29 | 46.00 | 10.71 | |
| 9 | 540.356 | 18.10 | 4.21 | 17.44 | 39.74 | 46.00 | 6.26 | |
| 10 | 648.458 | 21.08 | 4.69 | 9.10 | 34.87 | 46.00 | 11.13 | |
| 11 | 755.237 | 22.77 | 5.19 | 8.76 | 36.73 | 46.00 | 9.27 | |

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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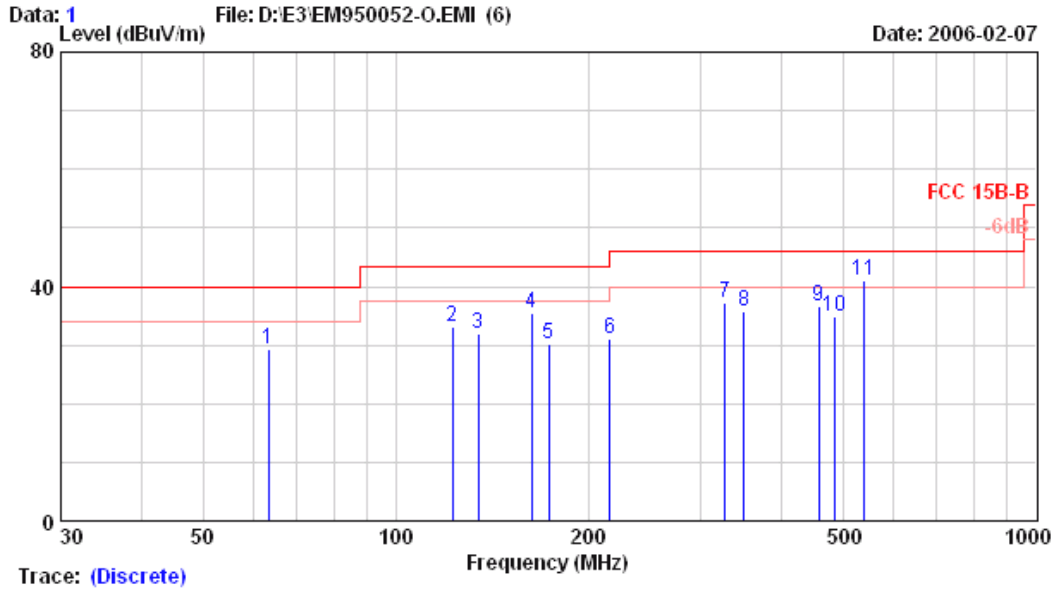


Site no. : NO.4 Open Site
Dis. / Ant. : 3m VBA6106A/UPA6109
Limit : FCC 15B-B
Env. / Ins. : 18*C / 64% ESVS 10
EUT : LCD TV M/N:15MF605T/37
Power Rating : 120Vac / 60Hz
Test Mode : 640*480 / 60Hz;31KHz

Data no. : 1
Ant. pol. : VERTICAL
Engineer : Allen Hsia

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBµV) | Emission Level (dBµV/m) | Limits (dBµV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|
| 1 | 63.245 | 13.69 | 1.23 | 14.45 | 29.38 | 40.00 | 10.62 | |
| 2 | 122.586 | 18.17 | 1.66 | 13.33 | 33.15 | 43.50 | 10.35 | |
| 3 | 134.790 | 19.50 | 1.74 | 10.75 | 32.00 | 43.50 | 11.50 | |
| 4 | 162.880 | 20.69 | 1.89 | 12.88 | 35.45 | 43.50 | 8.05 | |
| 5 | 173.465 | 21.41 | 2.00 | 6.86 | 30.27 | 43.50 | 13.23 | |
| 6 | 216.060 | 21.96 | 2.30 | 6.80 | 31.06 | 43.50 | 12.44 | |
| 7 | 326.895 | 13.15 | 2.94 | 21.24 | 37.33 | 46.00 | 8.67 | |
| 8 | 350.235 | 14.37 | 3.14 | 18.35 | 35.86 | 46.00 | 10.14 | |
| 9 | 457.347 | 17.37 | 3.62 | 15.51 | 36.50 | 46.00 | 9.50 | |
| 10 | 486.060 | 17.43 | 3.75 | 13.57 | 34.75 | 46.00 | 11.25 | |
| 11 | 540.075 | 18.88 | 4.21 | 17.98 | 41.07 | 46.00 | 4.93 | |

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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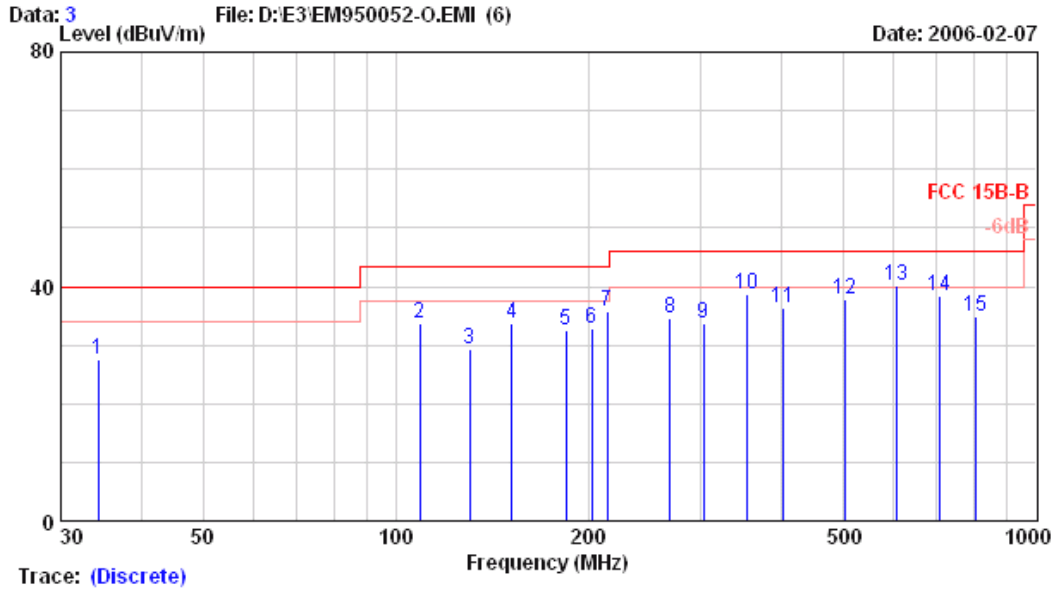


Site no. : NO.4 Open Site Data no. : 3
Dis. / Ant. : 3m VBA6106A/UPA6109 Ant. pol. : HORIZONTAL
Limit : FCC 15B-B
Env. / Ins. : 18*C / 64% ESVS 10 Engineer : Allen Hsia
EUT : LCD TV M/N:15MF605T/37
Power Rating : 120Vac / 60Hz
Test Mode : 800*600 / 60Hz;38KHz

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBµV) | Emission Level (dBµV/m) | Limits (dBµV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|
| 1 | 34.327 | 20.95 | 0.83 | 5.90 | 27.68 | 40.00 | 12.32 | |
| 2 | 109.236 | 18.35 | 1.59 | 13.68 | 33.62 | 43.50 | 9.88 | |
| 3 | 130.437 | 19.81 | 1.76 | 7.85 | 29.42 | 43.50 | 14.08 | |
| 4 | 151.877 | 20.48 | 1.89 | 11.43 | 33.80 | 43.50 | 9.70 | |
| 5 | 184.539 | 20.66 | 2.08 | 9.90 | 32.64 | 43.50 | 10.86 | |
| 6 | 202.435 | 21.04 | 2.23 | 9.46 | 32.73 | 43.50 | 10.77 | |
| 7 | 214.237 | 21.11 | 2.33 | 12.46 | 35.89 | 43.50 | 7.61 | |
| 8 | 268.545 | 23.47 | 2.56 | 8.58 | 34.61 | 46.00 | 11.39 | |
| 9 | 302.987 | 13.61 | 2.79 | 17.32 | 33.73 | 46.00 | 12.27 | |
| 10 | 354.326 | 14.69 | 3.00 | 20.96 | 38.65 | 46.00 | 7.35 | |
| 11 | 403.564 | 15.41 | 3.33 | 17.68 | 36.41 | 46.00 | 9.59 | |
| 12 | 503.437 | 17.70 | 3.81 | 16.35 | 37.86 | 46.00 | 8.14 | |
| 13 | 604.564 | 20.26 | 4.69 | 15.24 | 40.19 | 46.00 | 5.81 | |
| 14 | 705.654 | 21.67 | 4.89 | 11.88 | 38.43 | 46.00 | 7.57 | |
| 15 | 806.342 | 22.67 | 5.38 | 6.75 | 34.79 | 46.00 | 11.21 | |

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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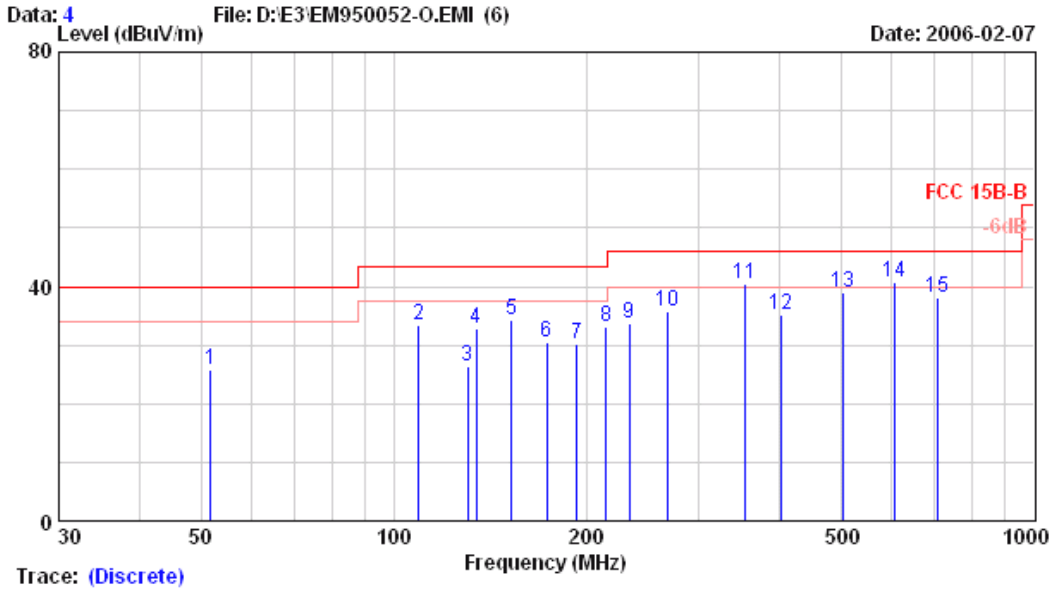


Site no. : NO.4 Open Site
Dis. / Ant. : 3m VBA6106A/UPA6109
Limit : FCC 15B-B
Env. / Ins. : 18*C / 64% ESVS 10
EUT : LCD TV M/N:15MF605T/37
Power Rating : 120Vac / 60Hz
Test Mode : 800*600 / 60Hz;38KHz

Data no. : 4
Ant. pol. : VERTICAL
Engineer : Allen Hsia

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBµV) | Emission Level (dBµV/m) | Limits (dBµV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|
| 1 | 51.734 | 15.41 | 1.05 | 9.24 | 25.70 | 40.00 | 14.30 | |
| 2 | 109.438 | 17.11 | 1.59 | 14.76 | 33.46 | 43.50 | 10.04 | |
| 3 | 130.541 | 19.32 | 1.76 | 5.33 | 26.41 | 43.50 | 17.09 | |
| 4 | 134.654 | 19.45 | 1.76 | 11.55 | 32.76 | 43.50 | 10.74 | |
| 5 | 152.865 | 20.57 | 1.89 | 11.88 | 34.34 | 43.50 | 9.16 | |
| 6 | 173.459 | 21.41 | 2.00 | 6.98 | 30.39 | 43.50 | 13.11 | |
| 7 | 193.453 | 21.91 | 2.15 | 6.24 | 30.30 | 43.50 | 13.20 | |
| 8 | 214.742 | 21.71 | 2.33 | 8.94 | 32.98 | 43.50 | 10.52 | |
| 9 | 233.324 | 22.72 | 2.42 | 8.57 | 33.71 | 46.00 | 12.29 | |
| 10 | 268.365 | 23.66 | 2.56 | 9.65 | 35.87 | 46.00 | 10.13 | |
| 11 | 354.572 | 14.60 | 3.00 | 22.75 | 40.35 | 46.00 | 5.65 | |
| 12 | 403.856 | 16.09 | 3.33 | 15.66 | 35.08 | 46.00 | 10.92 | |
| 13 | 503.457 | 17.82 | 3.81 | 17.28 | 38.90 | 46.00 | 7.10 | |
| 14 | 604.764 | 20.15 | 4.69 | 15.95 | 40.79 | 46.00 | 5.21 | |
| 15 | 705.735 | 21.64 | 4.89 | 11.67 | 38.20 | 46.00 | 7.80 | |

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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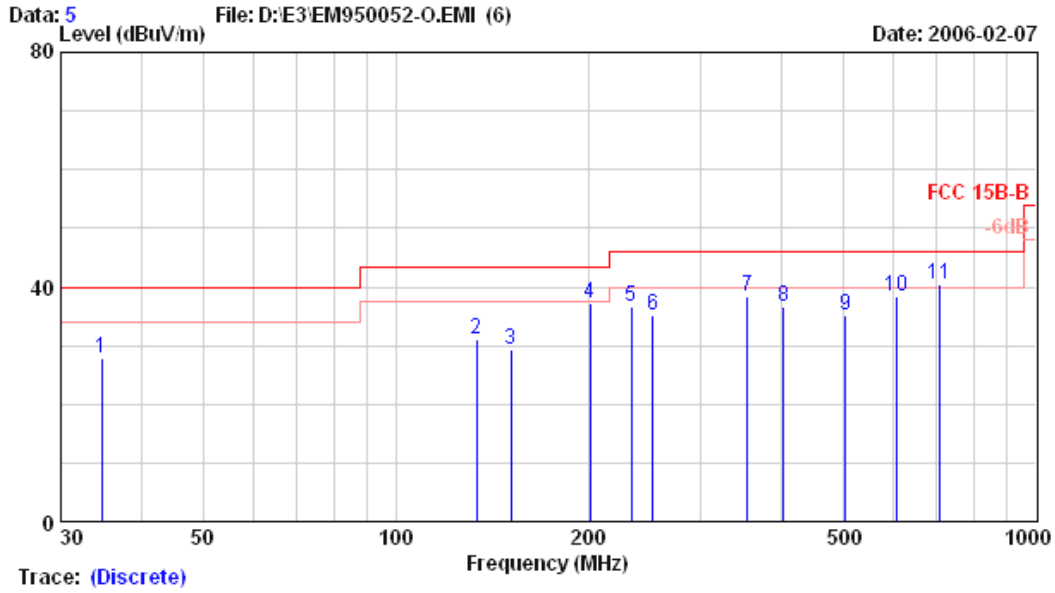


Site no. : NO.4 Open Site
Dis. / Ant. : 3m VBA6106A/UPA6109
Limit : FCC 15B-B
Env. / Ins. : 18*C / 64% ESVS 10
EUT : LCD TV M/N:15MF605T/37
Power Rating : 120Vac / 60Hz
Test Mode : 1024*768 / 60Hz;48KHz

Data no. : 5
Ant. pol. : HORIZONTAL
Engineer : Allen Hsia

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBµV) | Emission Level (dBµV/m) | Limits (dBµV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|
| 1 | 34.761 | 21.08 | 0.88 | 5.79 | 27.75 | 40.00 | 12.25 | |
| 2 | 133.986 | 20.03 | 1.76 | 9.35 | 31.13 | 43.50 | 12.37 | |
| 3 | 151.356 | 20.50 | 1.84 | 6.96 | 29.30 | 43.50 | 14.20 | |
| 4 | 201.356 | 20.99 | 2.24 | 13.87 | 37.10 | 43.50 | 6.40 | |
| 5 | 233.735 | 21.80 | 2.42 | 12.35 | 36.56 | 46.00 | 9.44 | |
| 6 | 252.456 | 22.75 | 2.52 | 9.77 | 35.03 | 46.00 | 10.97 | |
| 7 | 353.856 | 14.64 | 2.98 | 20.66 | 38.28 | 46.00 | 7.72 | |
| 8 | 403.466 | 15.41 | 3.33 | 17.98 | 36.71 | 46.00 | 9.29 | |
| 9 | 503.455 | 17.70 | 3.81 | 13.77 | 35.28 | 46.00 | 10.72 | |
| 10 | 604.368 | 20.26 | 4.69 | 13.35 | 38.30 | 46.00 | 7.70 | |
| 11 | 705.580 | 21.67 | 4.89 | 13.78 | 40.33 | 46.00 | 5.67 | * |

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 705.580MHz with corrected signal level of 40.33dBµV/m (limit is 46.0dBµV/m) when the antenna was at horizontal polarization and was at 1.2m high and the turn table was at 350°.
4. 0°was the table front facing the antenna. Degree is calculated from 0°clockwise facing the antenna.

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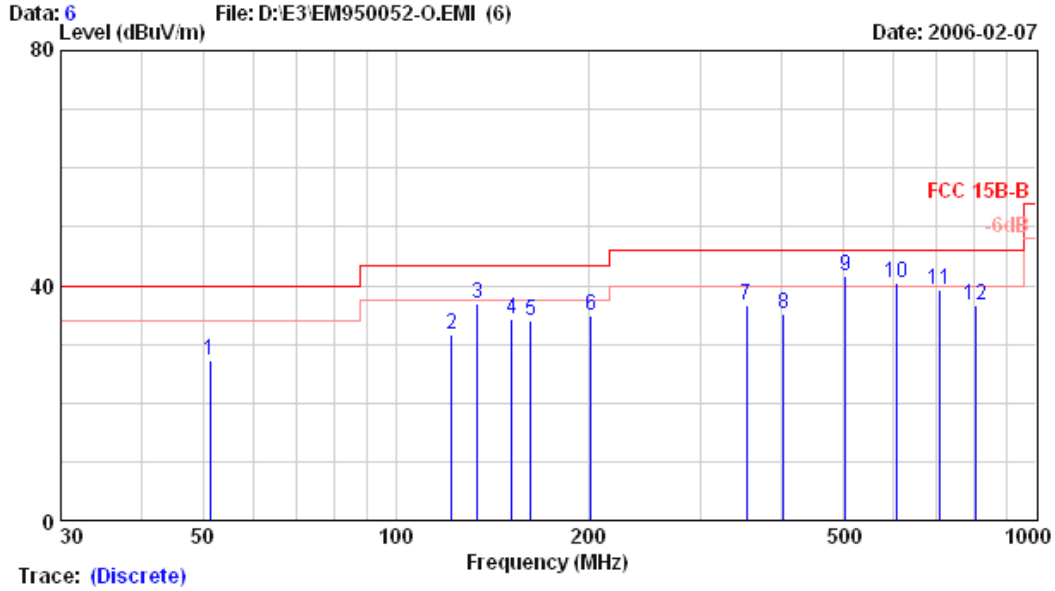



Site no. : NO.4 Open Site
Dis. / Ant. : 3m VBA6106A/UPA6109
Limit : FCC 15B-B
Env. / Ins. : 18*C / 64% ESVS 10
EUT : LCD TV M/N:15MF605T/37
Power Rating : 120Vac / 60Hz
Test Mode : 1024*768 / 60Hz;48KHz

Data no. : 6
Ant. pol. : VERTICAL
Engineer : Allen Hsia

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBµV) | Emission Level (dBµV/m) | Limits (dBµV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|
| 1 | 51.340 | 15.41 | 1.05 | 10.85 | 27.32 | 40.00 | 12.68 | |
| 2 | 122.235 | 18.17 | 1.66 | 11.68 | 31.50 | 43.50 | 12.00 | |
| 3 | 134.235 | 19.50 | 1.74 | 15.67 | 36.92 | 43.50 | 6.58 | |
| 4 | 151.686 | 20.50 | 1.84 | 11.97 | 34.30 | 43.50 | 9.20 | |
| 5 | 162.659 | 20.69 | 1.89 | 11.36 | 33.94 | 43.50 | 9.56 | |
| 6 | 201.544 | 21.96 | 2.24 | 10.65 | 34.85 | 43.50 | 8.65 | |
| 7 | 353.433 | 14.55 | 2.98 | 18.99 | 36.53 | 46.00 | 9.47 | |
| 8 | 403.571 | 16.09 | 3.33 | 15.85 | 35.28 | 46.00 | 10.72 | |
| 9 | 503.564 | 17.82 | 3.81 | 19.86 | 41.49 | 46.00 | 4.51 | * |
| 10 | 604.780 | 20.15 | 4.69 | 15.66 | 40.50 | 46.00 | 5.50 | |
| 11 | 705.456 | 21.64 | 4.89 | 12.77 | 39.29 | 46.00 | 6.71 | |
| 12 | 806.364 | 23.04 | 5.38 | 8.36 | 36.78 | 46.00 | 9.22 | |

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 503.564MHz with corrected signal level of 41.49dBµV/m (limit is 46.0dBµV/m) when the antenna was at vertical polarization and was at 1m high and the turn table was at 155°.
4. 0°was the table front facing the antenna. Degree is calculated from 0°clockwise facing the antenna.

# 4. DEVIATION TO TEST SPECIFICATIONS

【NONE】

# 5. PHOTOGRAPHS

## 5.1. Photos of Powerline Conducted Measurement

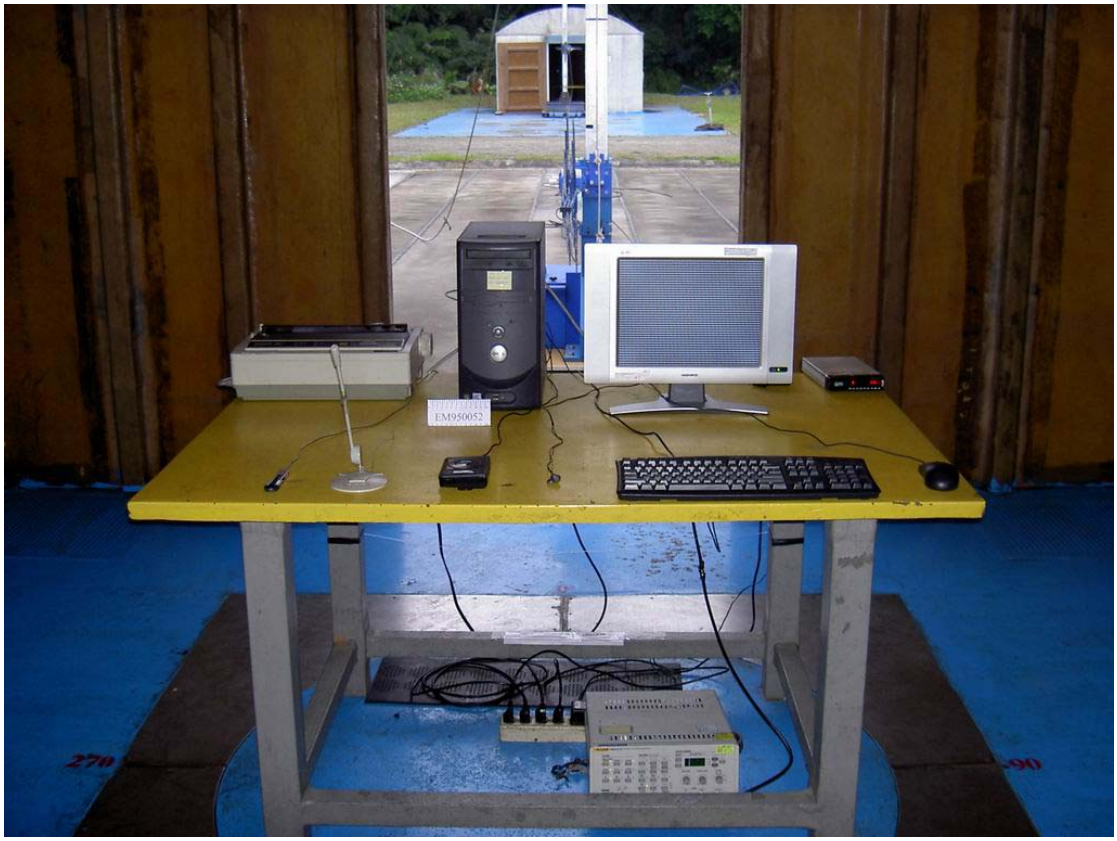
Test Mode：D-Sub Input


FRONT VIEW OF CONDUCTED TEST

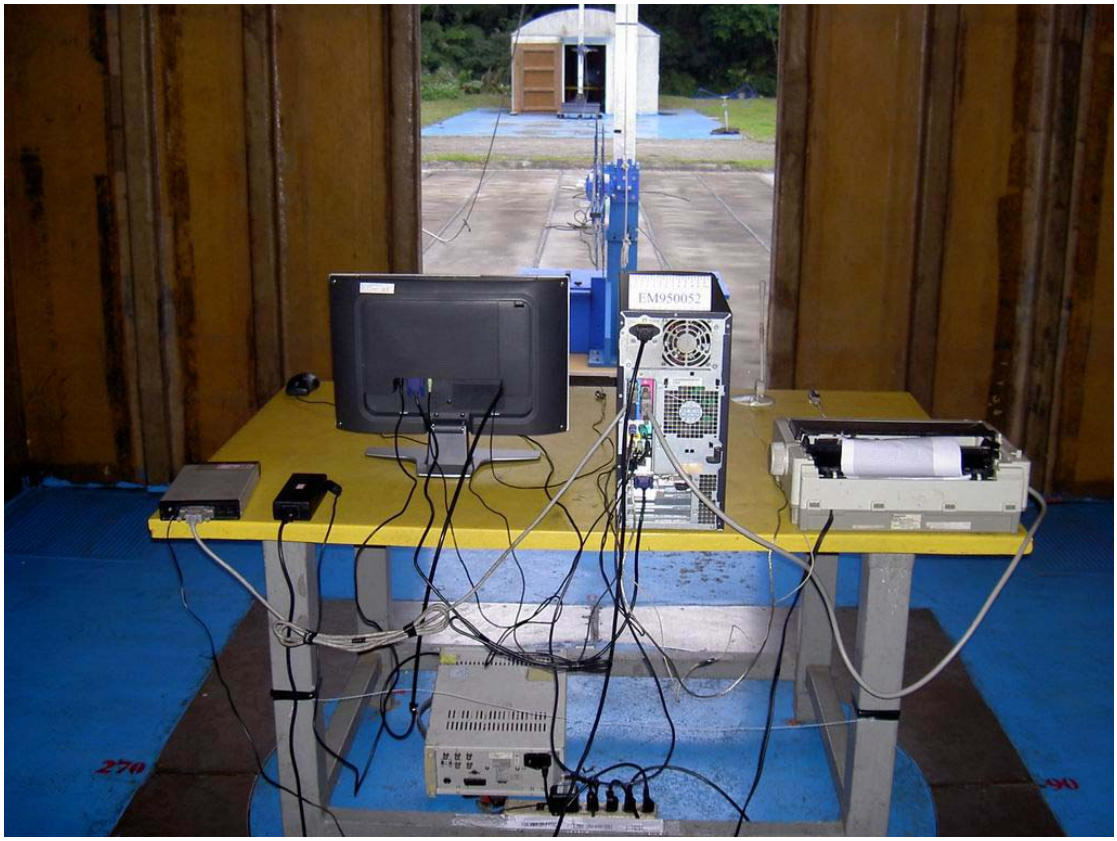

BACK VIEW OF CONDUCTED TEST

## 5.2. Photos of Radiated Measurement at Open Area Test Site

Test Mode：D-Sub Input

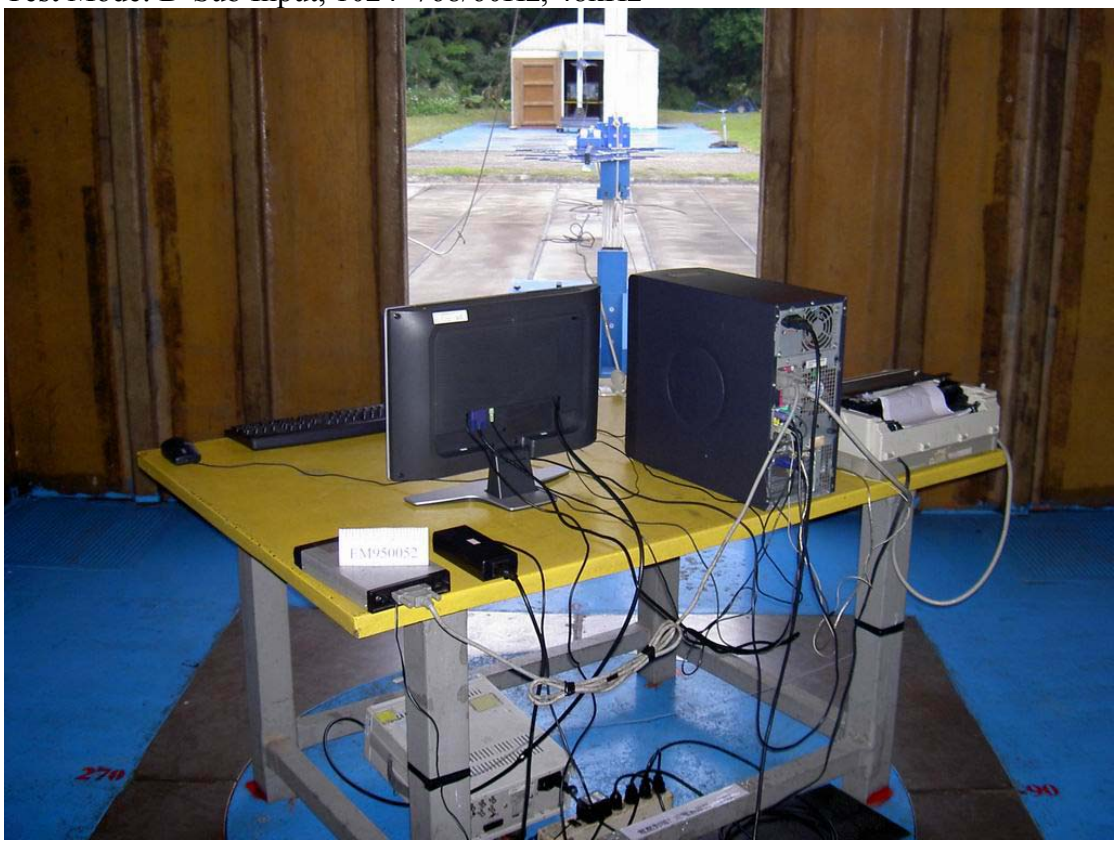



FRONT VIEW OF RADIATED TEST




BACK VIEW OF RADIATED TEST

Test Mode: D-Sub Input, 1024*768/60Hz, 48kHz




SETUP WITH MAXIMUM DETECTED EMMISSION AT HORIZONTAL POLARIZATION


SETUP WITH MAXIMUM DETECTED EMMISSION AT VERTICAL POLARIZATION