



EMC

TEST REPORT

REPORT NO. : F88111005

MODEL NO. : 7Vlr, 7Vlr+, 7VlrSA, 7VlrSA+

DATE OF TEST : Dec. 7, 1999

PREPARED FOR : TOP VICTORY ELECTRONICS CO., LTD.

ADDRESS : 18F, NO. 738, CHUNG-CHENG RD. CHUNG HO,
TAIPEI HSIEN, TAIWAN, R.O.C.

PREPARED BY: ADVANCE DATA TECHNOLOGY CORPORATION



Accredited Laboratory

11F, NO.1, SEC.4, NAN-KING EAST RD.,
TAIPEI, TAIWAN, R.O.C.

This test report consists of 21 pages in total. It may be duplicated completely for legal use with the allowance of the applicant. It shall not be reproduced except in full, without the written approval of our laboratory. It should not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. government. The test result in the report only applies to the tested sample.



TABLE OF CONTENTS

| | |
|--|----|
| 1. CERTIFICATION..... | 3 |
| 2. GENERAL INFORMATION | 4 |
| 2.1 GENERAL DESCRIPTION OF EUT..... | 4 |
| 2.2 DESCRIPTION OF SUPPORT UNITS..... | 5 |
| 2.3 TEST METHODOLOGY AND CONFIGURATION | 5 |
| 3. TEST INSTRUMENTS | 6 |
| 3.1 TEST INSTRUMENTS (EMISSION)..... | 6 |
| 3.2 LIMITS OF CONDUCTED AND RADIATED EMISSION..... | 7 |
| 4. TEST RESULTS (EMISSION)..... | 8 |
| 4.1 RADIO DISTURBANCE | 8 |
| 4.2 EUT OPERATION CONDITION | 8 |
| 4.3 TEST DATA OF CONDUCTED EMISSION (A) | 9 |
| 4.4 TEST DATA OF CONDUCTED EMISSION (B) | 11 |
| 4.5 TEST DATA OF RADIATED EMISSION (A) | 13 |
| 4.6 TEST DATA OF RADIATED EMISSION (B) | 15 |
| 5. PHOTOGRAPHS OF THE TEST CONFIGURATION WITH MINIMUM MARGIN.... | 17 |
| 6. APPENDIX - INFORMATION OF THE TESTING LABORATORY | 21 |



1.

CERTIFICATION

Issue Date: Dec. 9, 1999

Product : COLOR MONITOR
Trade Name : AOC
Model No. : 7Vlr, 7Vlr+, 7VlrSA, 7VlrSA+
Applicant : TOP VICTORY ELECTRONICS CO., LTD.
Standard : FCC Part 15, Subpart B, Class B
CISPR 22: 1993+A1: 1995+A2: 1996, Class B
ANSI C63.4-1992

We hereby certify that two samples of the designation have been tested in our facility on Dec. 7, 1999. The test record, data evaluation and Equipment Under Test (EUT) configurations represent herein are true and accurate representation of the measurements of the sample's EMC characteristics under the conditions herein specified.

The test results show that the EUT as described in this report is in compliance with the Class B limits of conducted and radiated emission of applicable standards.

TESTED BY : Jacko Liu , DATE: 12/9/99
(Jacko Liu)

CHECKED BY : Yemmy Soong , DATE: 12/9/99
(Yemmy Soong)

APPROVED BY : Mike Su , DATE: 12/9/99
(Mike Su)

ADVANCE DATA TECHNOLOGY CORPORATION

Accredited Laboratory



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

| | | |
|-------------------|---|------------------------------|
| Product | : | COLOR MONITOR |
| Model No. | : | 7Vlr, 7Vlr+, 7VlrSA, 7VlrSA+ |
| Power Supply Type | : | Switching |
| Power Cord | : | Nonshielded (1.8 m, 3-pin) |
| Data Cable | : | Shielded (1.8 m) |

Note: The EUT is a 17" Color Monitor with resolution up to 1280x1024.

The EUT has four model names, which are identical to each other in all aspects except for the following:

- ◆ Model: 7Vlr - Using MPRII monitor
- ◆ Model: 7Vlr+ - Using TCO monitor
- ◆ Model: 7VlrSA - Using MPRII monitor with speaker at the base
- ◆ Model: 7VlrSA+ - Using TCO monitor with speaker at the base

From the above models, model: **7Vlr** and **7VlrSA** were selected as representative for the test, and therefore both data are recorded separately in this report.

There is a ferrite core on the video cable outside both monitors.

For more detailed features description, please refer to manufacturer's specification or User's Manual.



2.2 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories are used to form representative test configuration during the tests.

| No. | Product | Brand | Model No. | FCC ID | I/O Cable |
|-----|-------------------|----------|------------|------------------|--|
| 1. | PERSONAL COMPUTER | NTI | PII-450T | FCC DoC Approved | Nonshielded Power (1.8 m) |
| 2. | KEYBOARD | FORWARD | FDA-104GA | F4ZDA-104G | Shielded signal (1.4 m) |
| 3. | MOUSE | DEXIN | A2P800A | NIYA2P800A | Shielded signal (1.5 m) |
| 4. | PRINTER | HP | 2225C+ | DSI6XU2225 | Shielded Signal (1.2 m) Nonshielded Power (1.2 m) |
| 5. | MODEM | ACEEX | 1414 | IFAXDM1414 | Shielded signal (1.2 m) Nonshielded Power (1.2 m) |
| 6. | VGA CARD | GAINWARD | CD-GX2A44T | ICUVGA-GW710 | NA |

2.3 TEST METHODOLOGY AND CONFIGURATION

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4: 1992. Radiated testing was performed at an antenna to EUT distance of 3/10 m on an open area test site.

Please refer to the photos of test configuration in Item 5.



3. TEST INSTRUMENTS

3.1 TEST INSTRUMENTS (EMISSION)

CONDUCTED EMISSION MEASUREMENT

| Description & Manufacturer | Model No. | Serial No. | Calibrated Until |
|--|-----------|------------|------------------|
| ROHDE & SCHWARZ Test Receiver | ESHS30 | 828109/007 | July 13, 2000 |
| ROHDE & SCHWARZ Artificial Mains Network | ESH2-Z5 | 892107/003 | July 13, 2000 |
| EMCO L.I.S.N. | 3825/2 | 9504-2359 | July 13, 2000 |
| Shielded Room | Site 3 | ADT-C03 | NA |

- Note: 1. The measurement uncertainty is less than +/- 2.6dB, which is calculated as per NAMAS document NIS81.
2. The calibration interval of the above test instruments is 12 months. And the calibrations are traceable to NML/ROC and NIST/USA.

RADIATED EMISSION MEASUREMENT

| Description & Manufacturer | Model No. | Serial No. | Calibrated until |
|------------------------------------|----------------------|--------------------------|------------------|
| HP Spectrum Analyzer | 8590L | 3544A00941 | Dec. 05, 2000 |
| HP Pre-Amplifier | 8447D | 2944A08312 | Feb. 28, 2000 |
| HP Preamplifier | 8347A | 3307A01088 | Aug. 30, 2000 |
| HP Preamplifier | 8449B | 3008A01201 | Dec. 15, 1999 |
| R&S Receiver | ESVS10 | 844594/010 | Sept. 29, 2000 |
| SCHWARZBECK Tunable Dipole Antenna | VHA 9103 UHA 9105 | E101051 E101055 | Nov. 23, 2000 |
| ROHDE & SCHWARZ TEST RECEIVER | ESMI | 839013/007 839379/002 | Aug. 30, 2000 |
| CHASE BILOG Antenna | CBL6111A | 1500 | Aug. 30, 2000 |
| EMCO Double Ridged Guide Antenna | 3115 | 9312-4192 | April 5, 2000 |
| EMCO Turn Table | 1060-04 | 1196 | NA |
| EMCO Tower | 1051 | 1264 | NA |
| Open Field Test Site | Site 1 | ADT-R01 | Aug. 27, 2000 |

- Note: 1. The measurement uncertainty is less than +/- 2.6dB, which is calculated as per NAMAS document NIS81.
2. The calibration interval of the above test instruments is 12 months. And the calibrations are traceable to NML/ROC and NIST/USA.



3.2 LIMITS OF CONDUCTED AND RADIATED EMISSION

LIMIT OF RADIATED EMISSION OF CISPR 22

| FREQUENCY (MHz) | Class A (at 10m) * | Class B (at 10m) * |
|--------------------|--------------------|--------------------|
| | dBuV/m | dBuV/m |
| 30 - 230 | 40 | 30 |
| 230 - 1000 | 47 | 37 |

* Detector Function: Quasi-Peak

LIMIT OF RADIATED EMISSION OF FCC PART 15, SUBPART B FOR FREQUENCY ABOVE 1000 MHz

| FREQUENCY (MHz) | Class A (dBuV/m) (at 3m) | | Class B (dBuV/m) (at 3m) | |
|--------------------|--------------------------|---------|--------------------------|---------|
| | Peak | Average | Peak | Average |
| Above 1000 | 80.0 | 60.0 | 74.0 | 54.0 |

- Note: (1) The lower limit shall apply at the transition frequencies.
 (2) Emission level (dBuV/m) = 20 log Emission level (uV/m).
 (3) All emanation from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

LIMIT OF CONDUCTED EMISSION OF CISPR 22

| FREQUENCY (MHz) | Class A (dBuV) | | Class B (dBuV) | |
|--------------------|----------------|---------|----------------|---------|
| | Quasi-peak | Average | Quasi-peak | Average |
| 0.15 - 0.5 | 79 | 66 | 66 - 56 | 56 - 46 |
| 0.50 - 5.0 | 73 | 60 | 56 | 46 |
| 5.0 - 30.0 | 73 | 60 | 60 | 50 |

- Note: (1) The lower limit shall apply at the transition frequencies.
 (2) The limit decreases linearly with the logarithm of the frequency in the range 0.15 to 0.50 MHz
 (3) All emanation from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.



4. TEST RESULTS (EMISSION)

4.1 RADIO DISTURBANCE

| | | |
|----------------------|---|---|
| Frequency Range | : | 0.15 - 30 MHz (Conducted Emission) 30 - 2000 MHz (Radiated Emission) |
| Input Voltage | : | 120 Vac, 60 Hz |
| Temperature | : | 27 degree C |
| Humidity | : | 60 % |
| Atmospheric Pressure | : | 994 mbar |

| TEST RESULT | Remarks |
|-------------|---|
| PASS | Minimum passing margin of conducted emission: -10.8 dB at 28.469 MHz Minimum passing margin of radiated emission: -3.0 dB at 66.40 MHz |

Note: The EUT was pre-tested under the following resolution & horizontal synchronization speed mode:

- * 1280x1024 mode (64 kHz)
- * 1024x768 mode (69 kHz),
- * 640x480 mode (31.5 kHz)

The worst emission levels were found under 1024x768 (69 kHz) and therefore the test data of only this mode is recorded.

4.2 EUT OPERATION CONDITION

1. Turn on the power of all equipment.
2. PC runs a test program to enable all functions.
3. PC reads and writes messages from FDD and HDD.
4. PC sends "H" messages to monitor (EUT) and then monitor displays "H" patterns on screen.
5. PC sends "H" messages to modem.
6. PC sends "H" messages to printer, and the printer prints them on paper.
7. Repeat steps 3-7.



4.3 TEST DATA OF CONDUCTED EMISSION (A)

EUT: COLOR MONITORMODEL: 7VlrMODE: 1024x768 (69 kHz)PHASE: LINE (L)6 dB Bandwidth: 10 kHz

| Freq. | Corr. | Reading Value | | Emission Level | | Limit | | Margin | |
|--------|--------|---------------|-----|----------------|-----|-----------|------|--------|-----|
| [MHz] | Factor | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | (dB) | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 0.208 | 0.2 | 51.0 | - | 51.2 | - | 63.3 | 53.3 | -12.1 | - |
| 0.275 | 0.2 | 42.6 | - | 42.8 | - | 61.0 | 51.0 | -18.2 | - |
| 0.621 | 0.2 | 26.7 | - | 26.9 | - | 56.0 | 46.0 | -29.1 | - |
| 3.723 | 0.5 | 32.1 | - | 32.6 | - | 56.0 | 46.0 | -23.4 | - |
| 18.956 | 1.3 | 47.7 | - | 49.0 | - | 60.0 | 50.0 | -11.0 | - |
| 28.469 | 1.7 | 44.8 | - | 46.5 | - | 60.0 | 50.0 | -13.5 | - |

- Remarks:
1. "*": Undetectable
 2. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 3. "-": The Quasi-peak emission level also meets average limit and measurement with the average detector is unnecessary.
 4. The emission levels of other frequencies were very low against the limit.
 5. Margin value = Emission level - Limit value
 6. Emission Level = Correction Factor + Reading Value.



TEST DATA OF CONDUCTED EMISSION (A)

EUT: COLOR MONITORMODEL: 7VlrMODE: 1024x768 (69 kHz)PHASE: NEUTRAL (N)6 dB Bandwidth: 10 kHz

| Freq. | Corr. | Reading Value | | Emission Level | | Limit | | Margin | |
|--------|--------|---------------|-----|----------------|-----|-----------|------|--------|-----|
| [MHz] | Factor | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | (dB) | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 0.208 | 0.2 | 48.4 | - | 48.6 | - | 63.3 | 53.3 | -14.7 | - |
| 0.275 | 0.2 | 39.8 | - | 40.0 | - | 61.0 | 51.0 | -21.0 | - |
| 0.621 | 0.2 | 25.4 | - | 25.6 | - | 56.0 | 46.0 | -30.4 | - |
| 3.723 | 0.4 | 31.6 | - | 32.0 | - | 56.0 | 46.0 | -24.0 | - |
| 18.956 | 0.9 | 46.8 | - | 47.7 | - | 60.0 | 50.0 | -12.3 | - |
| 28.469 | 1.4 | 45.2 | - | 46.6 | - | 60.0 | 50.0 | -13.4 | - |

- Remarks:
1. "*": Undetectable
 2. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 3. "-": The Quasi-peak emission level also meets average limit and measurement with the average detector is unnecessary.
 4. The emission levels of other frequencies were very low against the limit.
 5. Margin value = Emission level - Limit value
 6. Emission Level = Correction Factor + Reading Value.



4.4 TEST DATA OF CONDUCTED EMISSION (B)

EUT: COLOR MONITORMODEL: 7VlrSAMODE: 1024x768 (69 kHz)PHASE: LINE (L)6 dB Bandwidth: 10 kHz

| Freq. | Corr. | Reading Value | | Emission Level | | Limit | | Margin | |
|--------|--------|---------------|-----|----------------|-----|-----------|------|--------|-----|
| [MHz] | Factor | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | (dB) | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 0.206 | 0.2 | 48.5 | - | 48.7 | - | 63.3 | 53.3 | -14.6 | - |
| 0.276 | 0.2 | 40.7 | - | 40.9 | - | 60.9 | 50.9 | -20.0 | - |
| 0.897 | 0.2 | 24.0 | - | 24.2 | - | 56.0 | 46.0 | -31.8 | - |
| 4.413 | 0.4 | 27.5 | - | 27.9 | - | 56.0 | 46.0 | -28.1 | - |
| 18.957 | 1.0 | 41.6 | - | 42.6 | - | 60.0 | 50.0 | -17.4 | - |
| 28.469 | 1.7 | 47.5 | - | 49.2 | - | 60.0 | 50.0 | -10.8 | - |

- Remarks:
1. "*": Undetectable
 2. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 3. "-": The Quasi-peak emission level also meets average limit and measurement with the average detector is unnecessary.
 4. The emission levels of other frequencies were very low against the limit.
 5. Margin value = Emission level - Limit value
 6. Emission Level = Correction Factor + Reading Value.



TEST DATA OF CONDUCTED EMISSION (B)

EUT: COLOR MONITORMODEL: 7VlrSAMODE: 1024x768 (69 kHz)PHASE: NEUTRAL (N)6 dB Bandwidth: 10 kHz

| Freq. | Corr. | Reading Value | | Emission Level | | Limit | | Margin | |
|--------|--------|---------------|-----|----------------|-----|-----------|------|--------|-----|
| [MHz] | Factor | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | (dB) | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 0.206 | 0.2 | 47.8 | - | 48.0 | - | 63.3 | 53.3 | -15.3 | - |
| 0.276 | 0.2 | 39.6 | - | 39.8 | - | 60.9 | 50.9 | -21.1 | - |
| 0.897 | 0.2 | 23.2 | - | 23.4 | - | 56.0 | 46.0 | -32.6 | - |
| 4.413 | 0.4 | 26.4 | - | 26.8 | - | 56.0 | 46.0 | -29.2 | - |
| 18.957 | 0.9 | 40.8 | - | 41.7 | - | 60.0 | 50.0 | -18.3 | - |
| 28.469 | 1.5 | 46.9 | - | 48.4 | - | 60.0 | 50.0 | -11.6 | - |

- Remarks:
1. "*": Undetectable
 2. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 3. "-": The Quasi-peak emission level also meets average limit and measurement with the average detector is unnecessary.
 4. The emission levels of other frequencies were very low against the limit.
 5. Margin value = Emission level - Limit value
 6. Emission Level = Correction Factor + Reading Value.



4.5 TEST DATA OF RADIATED EMISSION (A)

EUT: **COLOR MONITOR**MODEL: **7Vlr**MODE: **1024x768 (69 kHz)**ANT. POLARITY: Horizontal

DETECTOR FUNCTION AND BANDWIDTH:

Quasi peak, 120 kHz (30-1000 MHz)
Peak, 1 MHz (1000 MHz-2000 MHz)
FREQUENCY RANGE: 30-1000 MHzMEASURED DISTANCE: 10 MFREQUENCY RANGE: 1000-2000 MHzMEASURED DISTANCE: 3 M

| Frequency (MHz) | Correction Factor (dB) | Reading Value (dBuV) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (cm) | Table Angle (Degree) |
|--------------------|---------------------------|-------------------------|-------------------------------|-------------------|----------------|---------------------------|----------------------------|
| 47.44 | 10.2 | 12.1 | 22.3 | 30.0 | -7.7 | 400 | 182 |
| 66.39 | 6.4 | 16.1 | 22.5 | 30.0 | -7.5 | 400 | 82 |
| 75.90 | 7.7 | 15.7 | 23.4 | 30.0 | -6.6 | 348 | 87 |
| 133.65 | 13.0 | 5.3 | 18.3 | 30.0 | -11.7 | 400 | 247 |
| 160.01 | 11.7 | 5.1 | 16.8 | 30.0 | -13.2 | 400 | 175 |
| 218.25 | 11.3 | 10.1 | 21.4 | 30.0 | -8.6 | 400 | 67 |
| 237.23 | 12.7 | 15.0 | 27.7 | 37.0 | -9.3 | 400 | 171 |
| 265.67 | 14.2 | 15.8 | 30.0 | 37.0 | -7.0 | 400 | 169 |
| 284.08 | 14.6 | 10.1 | 24.7 | 37.0 | -12.3 | 400 | 195 |

- REMARKS:
1. Emission level (dBuV/m) = Correction Factor (dB)
+ Reading value (dBuV).
 2. Correction Factor (dB) = Ant. Factor (dB)+Cable loss (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level - Limit value



TEST DATA OF RADIATED EMISSION (A)

EUT: **COLOR MONITOR**MODEL: **7Vlr**MODE: **1024x768 (69 kHz)**ANT. POLARITY: Vertical

DETECTOR FUNCTION AND BANDWIDTH:

Quasi peak, 120 kHz (30-1000 MHz)Peak, 1 MHz (1000 MHz-2000 MHz)FREQUENCY RANGE: 30-1000 MHzMEASURED DISTANCE: 10 MFREQUENCY RANGE: 1000-2000 MHzMEASURED DISTANCE: 3 M

| Frequency (MHz) | Correction Factor (dB) | Reading Value (dBuV) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (cm) | Table Angle (Degree) |
|-----------------|------------------------|----------------------|-------------------------|----------------|-------------|---------------------|----------------------|
| 47.44 | 10.2 | 15.5 | 25.7 | 30.0 | -4.3 | 100 | 62 |
| 66.40 | 6.4 | 20.6 | 27.0 | 30.0 | -3.0 | 100 | 76 |
| 75.90 | 7.7 | 18.8 | 26.5 | 30.0 | -3.5 | 100 | 27 |
| 133.65 | 13.0 | 10.3 | 23.3 | 30.0 | -6.7 | 100 | 19 |
| 160.03 | 11.7 | 8.2 | 19.9 | 30.0 | -10.1 | 100 | 0 |
| 208.09 | 10.5 | 7.9 | 18.4 | 30.0 | -11.6 | 100 | 15 |
| 218.09 | 11.2 | 10.9 | 22.1 | 30.0 | -7.9 | 100 | 138 |
| 237.05 | 12.7 | 12.4 | 25.1 | 37.0 | -11.9 | 100 | 121 |
| 265.55 | 14.2 | 13.9 | 28.1 | 37.0 | -8.9 | 100 | 164 |
| 284.08 | 14.6 | 11.4 | 26.0 | 37.0 | -11.0 | 100 | 145 |

- REMARKS:
1. Emission level (dBuV/m) = Correction Factor (dB)
+ Reading value (dBuV).
 2. Correction Factor (dB) = Ant. Factor (dB)+Cable loss (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level - Limit value



4.6 TEST DATA OF RADIATED EMISSION (B)

EUT: COLOR MONITORMODEL: 7VlrSAMODE: 1024x768 (69 kHz)ANT. POLARITY: Horizontal

DETECTOR FUNCTION AND BANDWIDTH:

Quasi peak, 120 kHz (30-1000 MHz)
Peak, 1 MHz (1000 MHz-2000 MHz)
FREQUENCY RANGE: 30-1000 MHzMEASURED DISTANCE: 10 MFREQUENCY RANGE: 1000-2000 MHzMEASURED DISTANCE: 3 M

| Frequency (MHz) | Correction Factor (dB) | Reading Value (dBuV) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (cm) | Table Angle (Degree) |
|--------------------|---------------------------|-------------------------|-------------------------------|-------------------|----------------|---------------------------|----------------------------|
| 50.21 | 8.9 | 14.1 | 23.0 | 30.0 | -7.0 | 400 | 140 |
| 76.11 | 7.7 | 12.2 | 19.9 | 30.0 | -10.1 | 400 | 24 |
| 161.30 | 11.6 | 4.7 | 16.3 | 30.0 | -13.7 | 400 | 130 |
| 170.78 | 11.1 | 8.5 | 19.6 | 30.0 | -10.4 | 400 | 183 |
| 189.71 | 10.3 | 9.3 | 19.6 | 30.0 | -10.4 | 400 | 356 |
| 208.70 | 10.5 | 11.3 | 21.8 | 30.0 | -8.2 | 400 | 214 |
| 218.24 | 11.3 | 6.7 | 18.0 | 30.0 | -12.0 | 400 | 140 |
| 237.25 | 12.7 | 7.7 | 20.4 | 37.0 | -16.6 | 400 | 192 |

- REMARKS:
1. Emission level (dBuV/m) = Correction Factor (dB)
+ Reading value (dBuV).
 2. Correction Factor (dB) = Ant. Factor (dB)+Cable loss (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level - Limit value



TEST DATA OF RADIATED EMISSION (B)

EUT: COLOR MONITORMODEL: 7VlrSAMODE: 1024x768 (69 kHz)ANT. POLARITY: Vertical

DETECTOR FUNCTION AND BANDWIDTH:

Quasi peak, 120 kHz (30-1000 MHz)
Peak, 1 MHz (1000 MHz-2000 MHz)
FREQUENCY RANGE: 30-1000 MHzMEASURED DISTANCE: 10 MFREQUENCY RANGE: 1000-2000 MHzMEASURED DISTANCE: 3 M

| Frequency (MHz) | Correction Factor (dB) | Reading Value (dBuV) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (cm) | Table Angle (Degree) |
|--------------------|---------------------------|-------------------------|-------------------------------|-------------------|----------------|---------------------------|----------------------------|
| 44.41 | 11.7 | 14.8 | 26.5 | 30.0 | -3.5 | 100 | 219 |
| 47.43 | 10.2 | 16.5 | 26.7 | 30.0 | -3.3 | 100 | 219 |
| 131.66 | 13.0 | 7.1 | 20.1 | 30.0 | -9.9 | 100 | 157 |
| 137.28 | 13.1 | 11.3 | 24.4 | 30.0 | -5.6 | 100 | 259 |
| 161.22 | 11.6 | 9.3 | 20.9 | 30.0 | -9.1 | 100 | 97 |
| 170.71 | 11.1 | 8.7 | 19.8 | 30.0 | -10.2 | 100 | 84 |
| 208.76 | 10.5 | 16.4 | 26.9 | 30.0 | -3.1 | 100 | 291 |
| 218.26 | 11.3 | 15.3 | 26.6 | 30.0 | -3.4 | 100 | 81 |
| 227.76 | 12.0 | 10.7 | 22.7 | 30.0 | -7.3 | 100 | 81 |
| 237.23 | 12.7 | 11.1 | 23.8 | 37.0 | -13.2 | 100 | 239 |

- REMARKS:
1. Emission level (dBuV/m) = Correction Factor (dB)
+ Reading value (dBuV).
 2. Correction Factor (dB) = Ant. Factor (dB)+Cable loss (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level - Limit value



5. PHOTOGRAPHS OF THE TEST CONFIGURATION WITH MINIMUM MARGIN

CONDUCTED EMISSION TEST (Model: 7Vlr)



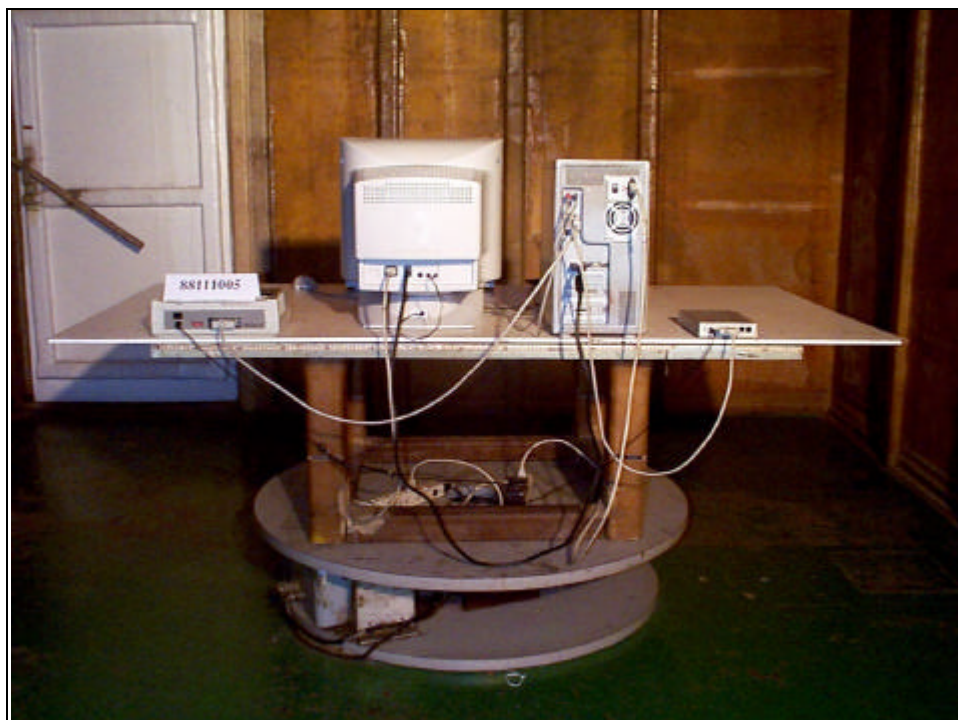
CONDUCTED EMISSION TEST (Model: 7VlrSA)



RADIATED EMISSION TEST (Model: 7Vlr)



RADIATED EMISSION TEST (Model: 7VlrSA)





6. APPENDIX - INFORMATION OF THE TESTING LABORATORY

Information of the testing laboratory

We, ADT Corp., are founded in 1988, to provide our best service in EMC and Safety consultation. Our laboratory is accredited by the following approval agencies according to ISO/IEC Guide 25 or EN 45001:

- | | |
|---------------|--------------------------------------|
| ● USA | FCC, UL, NVLAP |
| ● Germany | TUV Rheinland TUV Product Service |
| ● Japan | VCCI |
| ● New Zealand | RFS |
| ● Norway | NEMKO, DNV |
| ● U.K. | INCHCAPE |
| ● R.O.C. | BSMI |

Enclosed please find some certificates of our laboratory obtained from approval agencies. If you have any comments, please feel free to contact us with the following:

Lin Kou EMC Lab.:

Tel: 886-2-26032180

Fax: 886-2-26022943

Hsin Chu EMC Lab:

Tel: 886-35-935343

Fax: 886-35-935342

Lin Kou Safety Lab.:

Tel: 886-2-26093195

Fax: 886-2-26093184

Design Center:

Tel: 886-2-26093195

Fax: 886-2-26093184

E-mail: service@mail.adt.com.tw<http://www.adt.com.tw>