



## EMISSION TEST REPORT

Test report file No. : **03-IST-001/FB**Date of issue : Feb. 27, 2003Model / Type No. : WTN-17WE2☒ Basic ☐ AlternateKind of product : 17" LCD MonitorBrand name : WOORYOUNGApplicant : WOO YOUNG CO.,LTD.Manufacturer : WOO YOUNG CO.,LTD.License holder : WOO YOUNG CO.,LTD.Address : Yooхва Bldg. 7FL, 995-16 Daechi-Dong, Gangnam-Gu, Seoul, Korea**Test result** according to the regulation(s)☒ Positive ☐ Negative

at page 3.

This test report with appendix consists of 22 pages. The test result only responds to the tested sample.

It is not allowed to copy this report even partly without the allowance of the Test Laboratory.

This equipment is complied with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.4-1992.

## DIRECTORY

### A) Documentation.

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### B) Test Data.

|                             |                    |                                  |
|-----------------------------|--------------------|----------------------------------|
| Conducted emissions (Mains) | : 150 kHz - 30 MHz | <u>12 ~ 14</u><br><u>17 ~ 19</u> |
| Radiated emissions          | : 30 MHz – 1 GHz   | <u>15 ~ 16</u><br><u>20 ~ 21</u> |

### C) Appendix

## TEST REGULATIONS

The tests were performed according to the following regulations ;

- - FCC Part 15, Subpart B (Unintentional Radiators, Class B)

## Information of Test Laboratory

### IST EMC Lab.

San 21-8 Goan-Ri, Baekam-Myun, Yongin-Si, Kyunggi-Do, Korea

International - Tel : 82-31 - 333 - 4093. Fax : 82-31 - 333 - 4094.

Domestic - Tel : 031 - 333 - 4093. Fax : 031 - 333 - 4094.

## EQUIPMENT UNDER TEST

### Equipment Description :

|                        |                                          |
|------------------------|------------------------------------------|
| Panel :                | 17" wide TFT LCD                         |
|                        | Active Area – 372.5 X 223.5 mm           |
|                        | LM171W01-B3 (LG Philips Co.,Ltd.)        |
| Resolution :           | 1024 x 768, 60 Hz (max.)                 |
| Dimension :            | 532(W) X 352(H) X 185(D) mm (with stand) |
| Power Consumption :    | 46 W                                     |
| Power Supply Adapter : | Maker - Edac Power Electronics Co., Ltd. |
|                        | Model - EA1050A-120                      |
|                        | Input - 100 ~ 240 Vac, 1.8 A, 50/60 Hz   |
|                        | Output – 12 Vdc, 5.0 A                   |
| Power Supply Adapter : | Maker - Seronics Co., Ltd.               |
| (Selectable)           | Model – SAD5012SE                        |
|                        | Input - 100 ~ 240 Vac, 1.2 A, 50/60 Hz   |
|                        | Output – 12 Vdc, 4.3 A                   |

## EQUIPMENT UNDER TEST

**EUT Type :**

- ☒ Table-Top.  
☐ Floor-Standing.  
☐ Table-Top and Floor-Standing(Combination).

### Operation – mode of the E.U.T. :

The equipment under test was operated during the measurement under following conditions :

- ☐ Standby.
- ☒ Operational Condition : Scrolling “H” characters under MS Windows,  
at test mode of 1024 X 768, 60 Hz

**Configuration of the equipment under test :**

Following peripheral devices and interface cables were connected during the measurement :

| Equipment    | Type           | Brand            | Serial No.  |
|--------------|----------------|------------------|-------------|
| PC           | Vectra VL420MT | HP               | SG23101784  |
| Keyboard     | SK-2502C       | HP               | M020321066  |
| PS/2 Mouse   | M-S48a         | HP               | LZC20602926 |
| Serial Mouse | M-S428         | Logitech         | LCA53305547 |
| Printer      | A0302384       | Northern Telecom | 26633S60168 |

### Connecting Interface Cables :

- Unshielded AC power cable : 1.8 m
- Unshielded DC power cable (with one ferrite core) : 1.7 m
- Shielded monitor's signal cable (with two ferrite core) : 1.4 m
- Shielded printer's signal cable (with two ferrite core) : 1.8 m
- Unshielded speaker's cable (with two ferrite core) : 1.9 m
- Unshielded RCA cable : 1.9 m
- Unshielded S-Video cable : 0.1 m (75 ohm termination)

## TEST CONDITIONS

The **measurement of the conducted emissions (Interference voltage)** was performed in a shielded room.

**Test location :**

☒ Shielded room. No.1

☐ Compact chamber 2

**Used testing instruments :**

| Name     | Type          | Manufacturer    | Calibration. Date | Serial Number |
|----------|---------------|-----------------|-------------------|---------------|
| ESH 3    | Test Receiver | Rohde & Schwarz | Jul. 25, 2002     | 892108/018    |
| 3725/2   | LISN          | EMCO            | Aug. 22, 2002     | 9101-2068     |
| KNW-407  | LISN          | Hyup-Rip        | Aug. 21, 2002     | 8-883-10      |
| ESH 3-Z2 | Pulse Limiter | Rohde & Schwarz | Jul. 25, 2002     | 357.8810.52   |

**Test - accessories :**

| Type              | Manufacturer |
|-------------------|--------------|
| Aneroid Barometer | Sato         |
| Hygrometer        | Sato         |

**Measurement Procedures :**

Conducted emissions measurements were made in accordance with ANSI C63.4-1992, "Method of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz". The measurement were performed over the frequency range of 0.15MHz to 30MHz using a 50 $\Omega$  /50uH LISN as the input transducer to an EMI/Field Intensity Meter. The measurements were made with the detector set for "Peak" amplitude within an IF bandwidth of 10kHz or for "quasi-peak" within a bandwidth of 9kHz.

All used test-instruments as well as the test-accessories are calibrated regularly.

Test engineer :



S. G. Kim / Research Engineer  
IST EMC Lab.

The **measurement of the radiated emissions (Electric field)** in the frequency range from 30 MHz to 1GHz was performed in horizontal and vertical antenna polarization at a open-site which meet the site attenuation requirement of ANSI C63.4-1992 and a test distance of :

Location : ☒ Open Site No. 1 ☐ Open Site No. 2 ☐ Open Site No. 3  
 Distance : ☒ 3 meters ☐ 10 meters

**Used testing instruments :**

| Name      | Type          | Manufacturer    | Calibration. Date | Serial Number |
|-----------|---------------|-----------------|-------------------|---------------|
| ESVP      | Test Receiver | Rohde & Schwarz | Aug. 16, 2002     | 861744/004    |
| VULB 9160 | Antenna       | Schwarzbeck     | Jul. 10, 2002     | 3048          |

**Test - accessories :**

| Type              | Manufacturer |
|-------------------|--------------|
| Aneroid Barometer | Sato         |
| Hygrometer        | Sato         |

**Measurement procedures**

Radiated measurements were in accordance with ANSI C63.4-1992 “Method of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz”. The measurements were performed over the frequency range of 30MHz to 1GHz using antenna as the input transducer to a EMI/Field Intensity Meter. The measurements were made with the detector set for “quasi-peak” within a bandwidth of 120kHz.

All used test-instruments as well as the test-accessories are calibrated regularly.

Test engineer :



S. G. Kim / Research Engineer  
IST EMC Lab.

## TEST RESULT

### Conducted emissions : 150 kHz - 30 MHz

The requirements are.

☒ KEPT

☐ NOT KEPT

Min. limit margin

Edac Adapter : 7.0 dB at 0.179 MHz

Seronics Adapter : 13.0 dB at 3.575 MHz

Remarks : See test-data at pages 12 ~ 14, 17 ~ 19.

### Radiated emissions (electric field) 30 MHz - 1000 MHz

The requirements are.

☒ KEPT

☐ NOT KEPT

Min. limit margin

Edac Adapter : 3.1 dB at 405.0 MHz

Seronics Adapter : 3.2 dB at 405.0 MHz

Remarks : See test-data at page 15 ~ 16, 20 ~ 21.

## Measurement Uncertainty Calculation

The measurement uncertainties stated were calculated in accordance with the requirements of NIST Technical Note 1297 and NIS 81 (1994).

| Contribution<br>(Conducted Emissions)  | Probability<br>Distribution | Uncertainty ( $\pm$ dB) |
|----------------------------------------|-----------------------------|-------------------------|
|                                        |                             | 0.15-30MHz              |
| Receiver Specification                 | Rectangular                 | 1.5                     |
| LISN Coupling Specification            | Rectangular                 | 1.5                     |
| Cable and Input Attenuator Calibration | Normal (k=2)                | 0.5                     |
| Mismatch to Reciver                    | U-Shaped                    | -0.8 / +0.7             |
| System Repeatability                   | Normal (k=1)                | 0.2                     |
| Combined Standard Uncertainty          | Normal (k=2)                | -1.85 / +1.71           |
| Expanded Uncertainty U                 | Normal (k=2)                | -3.7 / +3.42            |

$$U_{c,min\ us} = -1.85, \ U_{c,plus} = 1.71$$

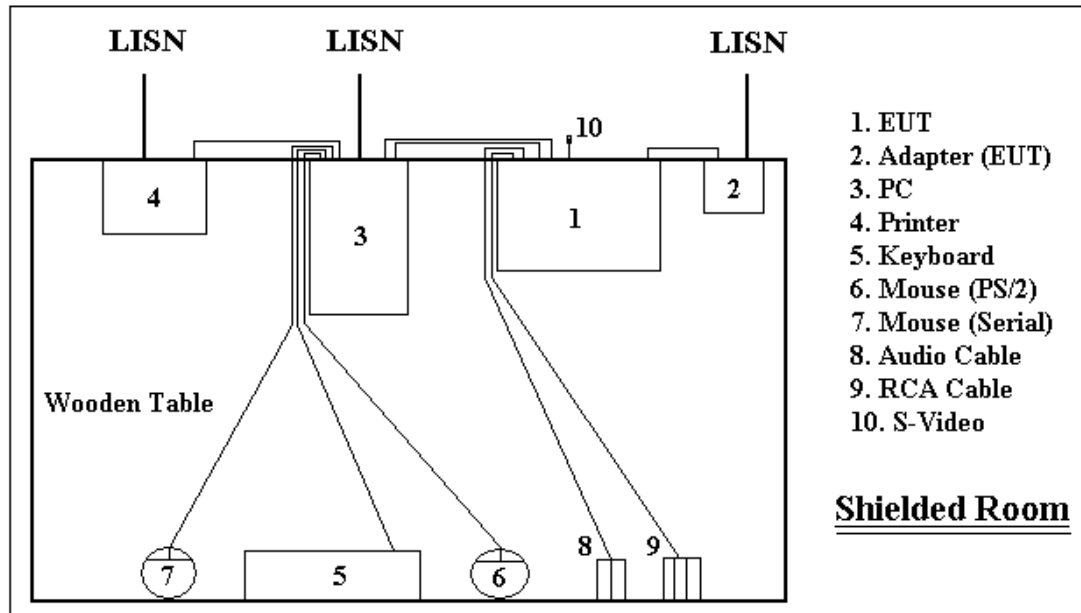
$$U = -3.70 / +3.42 \ (k=2, \ 95.45\% \text{ confidence level})$$

| Contribution<br>(Radiated Emissions) | Probability<br>Distribution | Uncertainties( $\pm$ dB) |
|--------------------------------------|-----------------------------|--------------------------|
|                                      |                             | 3 m                      |
| Antenna                              |                             |                          |
| Factor                               | Normal (k=2)                | 0.9968                   |
| Frequency Interpolation              | Rectangular                 | 0.1039                   |
| Height Variation                     | Rectangular                 | -2.6 / +1.5              |
| Directivity Difference               | Rectangular                 | -1.0 / +0                |
| Phase Center Location                | Rectangular                 | 1.0                      |
| Cable Loss                           | Normal (k=2)                | 0.5                      |
| Receiver                             |                             |                          |
| Voltage Accuracy                     | Normal (k=2)                | 2.0                      |
| Pulse Response                       | Rectangular                 | 1.5                      |
| Absolute Repetition Rate             | Rectangular                 | 1.5                      |
| Mismatch to Receiver                 |                             |                          |
| $G_{antenna}$   = 0.33               | U-Shaped                    | -1.0 / +0.9              |
| $G_{receiver}$   = 0.33              |                             |                          |
| System Repeatability                 | Std Deviation               | 0.5                      |
| Combined Standard Uncertainty        | Normal                      | -2.6048 / 2.2775         |
| Expanded Uncertainty U               | Normal (k=2)                | -5.21 / +4.55            |

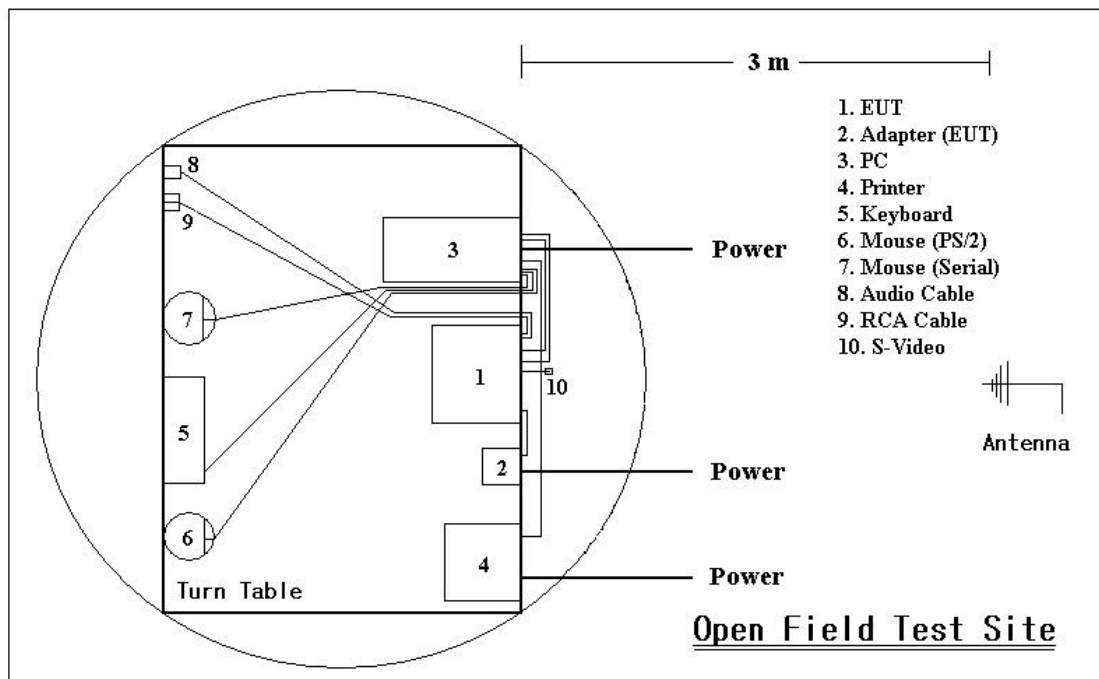
$$U_{c,min\ us} = -2.6048, \ U_{c,plus} = 2.2775$$

$$U = -5.21 / +4.55 \ (k=2, \ 95.45\% \text{ confidence level})$$

## TEST SETUP (Drawings)

Type : WTN-17WE2

Conducted Emissions 150kHz - 30 MHz



Radiated Emissions 30 MHz - 1000 MHz

## **TEST SETUP (Photos)**

Type : WTN-17WE2



Conducted Emissions 150kHz - 30 MHz



## **TEST SETUP (Photos)**

Type : WTN-17WE2



Radiated Emissions 30MHz - 1000 MHz



## Conducted Emission Test Data

Type WTN-17WE2  
 Manufacturer WOO YOUNG CO.,LTD.  
 Operation mode Scrolling "H" pattern display at 1024 x 768, 60 Hz  
 Environmental Conditon Temperature : 18 ?C  
 Humidity : 40 %  
 Atmospheric pressure : 1000 mbar  
 Date Feb. 21, 2003

### Highest Emissions ralative to the limit

[Edac Adapter]

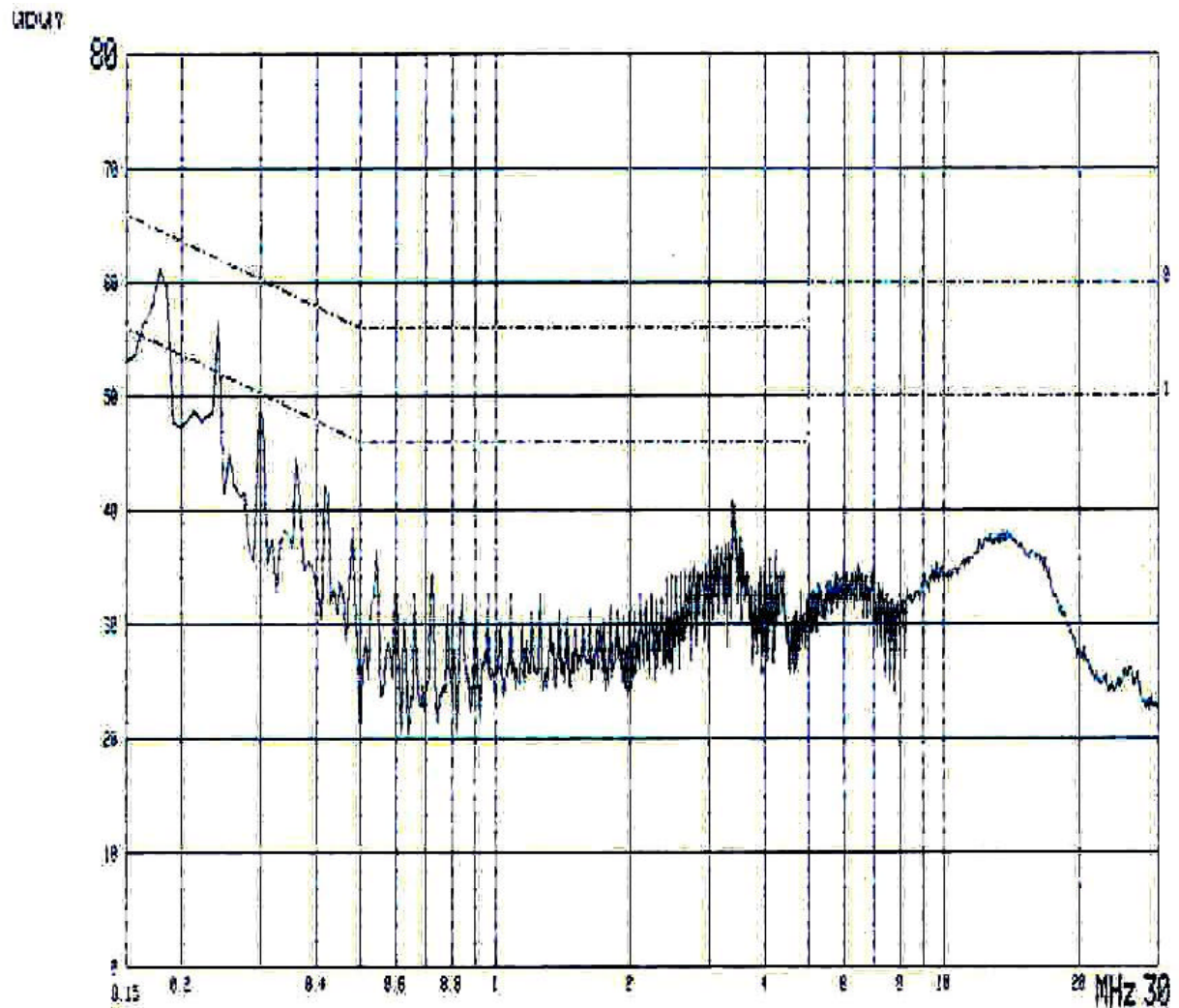
| Frequency<br>[MHz]              | Reading<br>[dB? V] |      | Phase | Insertion<br>Loss<br>(LISN) | Limit<br>[dB? V] |      | Margin<br>[dB] |      |
|---------------------------------|--------------------|------|-------|-----------------------------|------------------|------|----------------|------|
|                                 | Q-peak             | AV   |       |                             | Q-peak           | AV   | Q-peak         | AV   |
| 0.179                           | 56.7               | 45.0 | L1    | 0.8                         | 64.5             | 54.5 | 7.0            | 8.7  |
| 0.239                           | 51.9               | 39.8 |       | 0.8                         | 62.1             | 52.1 | 9.4            | 11.5 |
| 0.299                           | 44.2               | 34.9 |       | 0.8                         | 60.3             | 50.3 | 15.3           | 14.6 |
| 0.418                           | 36.7               | 30.3 |       | 0.8                         | 57.5             | 47.5 | 20.0           | 16.4 |
| 3.364                           | 30.2               | 22.5 |       | 0.8                         | 56.0             | 46.0 | 25.0           | 22.7 |
| 4.196                           | 25.9               | 15.0 |       | 0.8                         | 56.0             | 46.0 | 29.3           | 30.2 |
| 0.177                           | 53.4               | 42.6 | N     | 0.8                         | 64.5             | 54.5 | 10.3           | 11.1 |
| 0.238                           | 47.9               | 37.6 |       | 0.8                         | 62.2             | 52.2 | 13.5           | 13.8 |
| 0.297                           | 41.9               | 33.1 |       | 0.8                         | 60.3             | 50.3 | 17.6           | 16.4 |
| 0.355                           | 36.2               | 28.5 |       | 0.8                         | 58.8             | 48.8 | 21.8           | 19.5 |
| 2.997                           | 27.8               | 18.9 |       | 0.8                         | 56.0             | 46.0 | 27.4           | 26.3 |
| 4.805                           | 33.2               | 27.9 |       | 0.8                         | 56.0             | 46.0 | 22.0           | 17.3 |
| Cable loss are less than 0.1 dB |                    |      |       |                             |                  |      |                |      |

\*L1 : Live Line

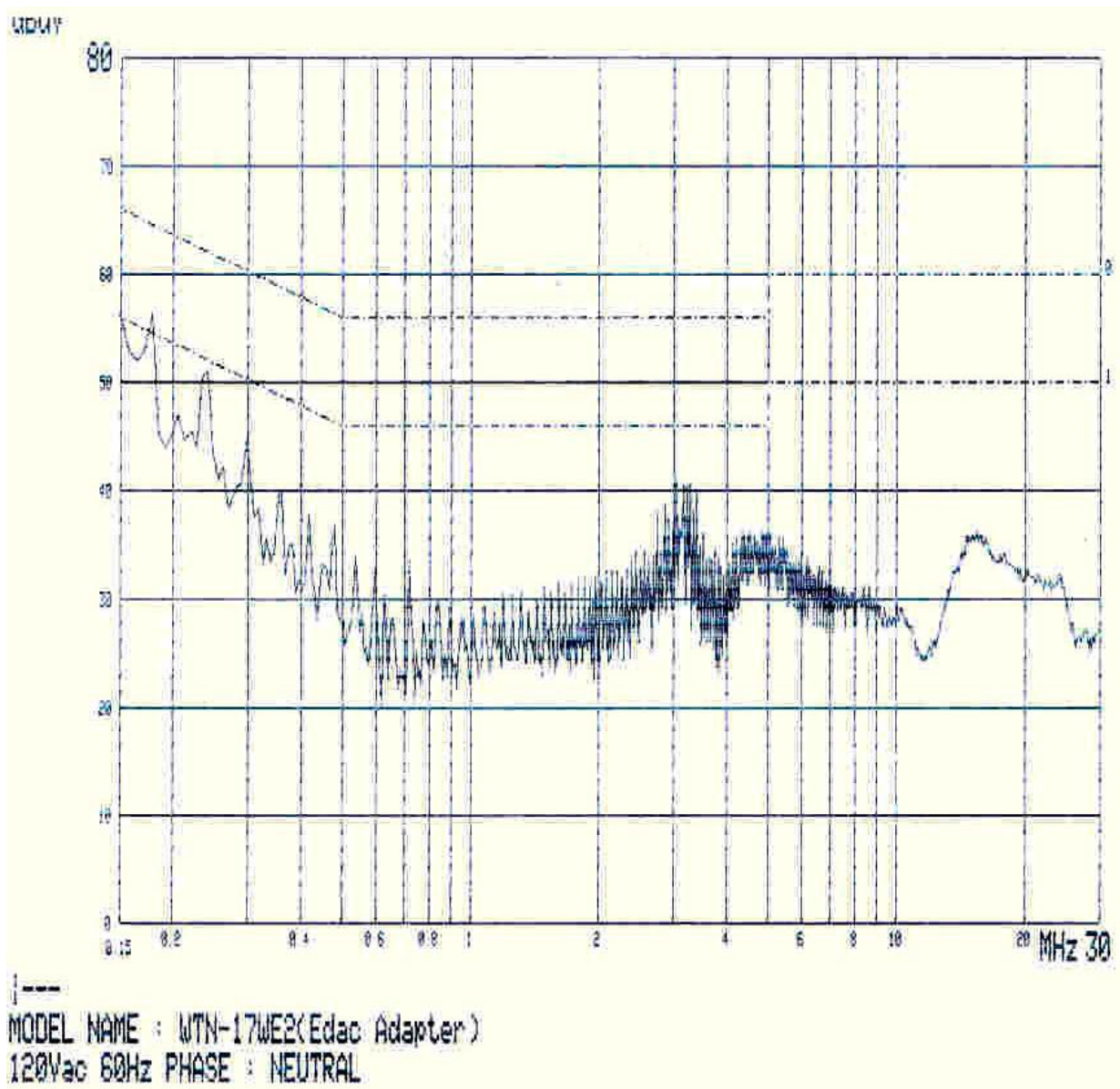
\*\*N : Neutral Line

\*\*\* Please refer to data graphs at page 13 ~ 14.

Coverage factor of k=2 will ensure that the level of confidence will be approximately 95.45%,  
 Uncertainty U = -3.70 / +3.42 [dB]



MODEL NAME : WTN-17WE2(Edac Adapter)  
120Vac 60Hz PHASE : L1



## Radiation Test Data

Type WTN-17WE2  
 Manufacturer WOO YOUNG CO.,LTD.  
 Operation mode Scrolling "H" pattern display at 1024 x 768, 60 Hz  
 Environmental Condition Temperature : 13 °C  
 Humidity : 40 %  
 Atmospheric pressure : 1000 mbar  
 Test distance 3 m  
 Antenna VULB9160  
 Date Feb. 24, 2003

### Highest Emissions relative to the limit

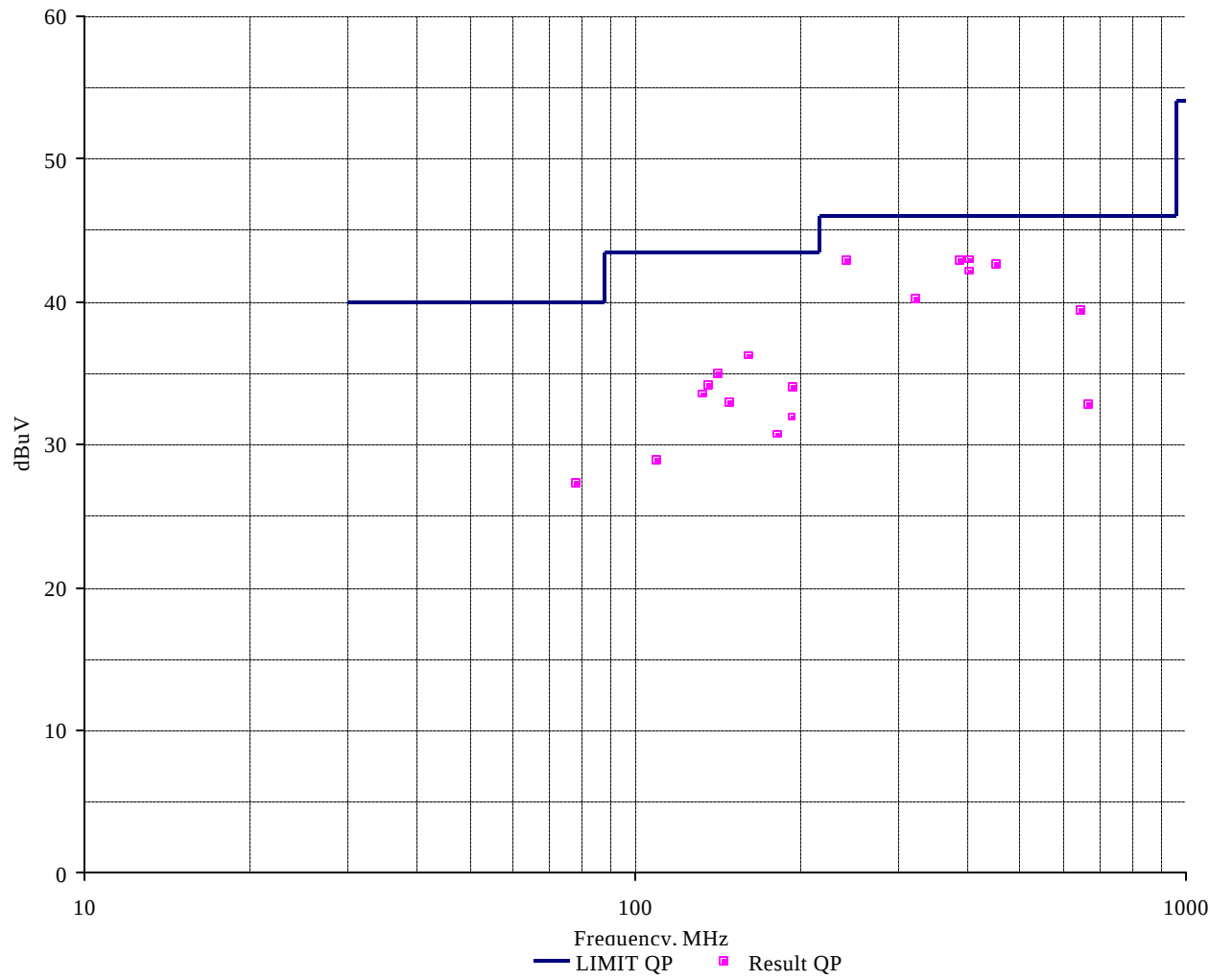
[Edac Adapter]

| Freq.<br>[MHz] | Reading<br>[dBuV] | Antenna<br>Factor<br>[dB] | Cable<br>Loss<br>[dB] | Angle<br>[deg] | Height<br>[cm] | Polar<br>[H/V] | Result<br>[dBuV] | Limit<br>[dBuV] | Margin<br>[dB] |
|----------------|-------------------|---------------------------|-----------------------|----------------|----------------|----------------|------------------|-----------------|----------------|
| 78.3           | 17.5              | 8.2                       | 1.6                   | 225            | 100            | V              | 27.3             | 40.0            | 12.7           |
| 110.1          | 17.6              | 9.4                       | 1.9                   | 94             | 100            | V              | 28.9             | 43.5            | 14.6           |
| 132.8          | 20.7              | 10.7                      | 2.1                   | 0              | 121            | H              | 33.5             | 43.5            | 10.0           |
| 136.1          | 21.0              | 11.0                      | 2.1                   | 0              | 100            | H              | 34.1             | 43.5            | 9.4            |
| 142.5          | 21.0              | 11.7                      | 2.2                   | 0              | 100            | H              | 34.9             | 43.5            | 8.6            |
| 149.1          | 18.5              | 12.1                      | 2.3                   | 0              | 186            | H              | 32.9             | 43.5            | 10.6           |
| 162.0          | 21.6              | 12.3                      | 2.3                   | 11             | 165            | H              | 36.2             | 43.5            | 7.3            |
| 181.9          | 18.0              | 10.3                      | 2.4                   | 0              | 127            | H              | 30.7             | 43.5            | 12.8           |
| 193.3          | 20.4              | 9.0                       | 2.5                   | 19             | 100            | V              | 31.9             | 43.5            | 11.6           |
| 194.8          | 22.6              | 8.9                       | 2.5                   | 80             | 100            | V              | 34.0             | 43.5            | 9.5            |
| 243.0          | 29.5              | 10.4                      | 2.9                   | 0              | 100            | H              | 42.8             | 46.0            | 3.2            |
| 324.0          | 25.1              | 11.7                      | 3.4                   | 0              | 126            | V              | 40.2             | 46.0            | 5.8            |
| 389.7          | 25.8              | 12.9                      | 4.1                   | 317            | 100            | V              | 42.8             | 46.0            | 3.2            |
| 405.0          | 25.3              | 13.3                      | 4.3                   | 309            | 100            | V              | 42.9             | 46.0            | 3.1            |
| 405.0          | 24.5              | 13.3                      | 4.3                   | 0              | 171            | H              | 42.1             | 46.0            | 3.9            |
| 454.7          | 24.1              | 14.0                      | 4.5                   | 7              | 100            | V              | 42.6             | 46.0            | 3.4            |
| 648.0          | 17.3              | 17.1                      | 4.9                   | 353            | 106            | V              | 39.3             | 46.0            | 6.7            |
| 667.4          | 10.2              | 17.6                      | 5.0                   | 0              | 123            | V              | 32.8             | 46.0            | 13.2           |

Coverage factor of k=2 will ensure that the level of confidence will be approximately 95.45%,

Uncertainty U = -5.21 / +4.55 [dB]

MEASUREMENT OF DISTURBANCE RADIATION



## Conducted Emission Test Data

Type WTN-17WE2  
 Manufacturer WOO YOUNG CO.,LTD.  
 Operation mode Scrolling "H" pattern display at 1024 x 768, 60 Hz  
 Environmental Condition Temperature : 18 °C  
 Humidity : 40 %  
 Atmospheric pressure : 1000 mbar  
 Date Feb. 21, 2003

### Highest Emissions relative to the limit

[Seronics Adapter]

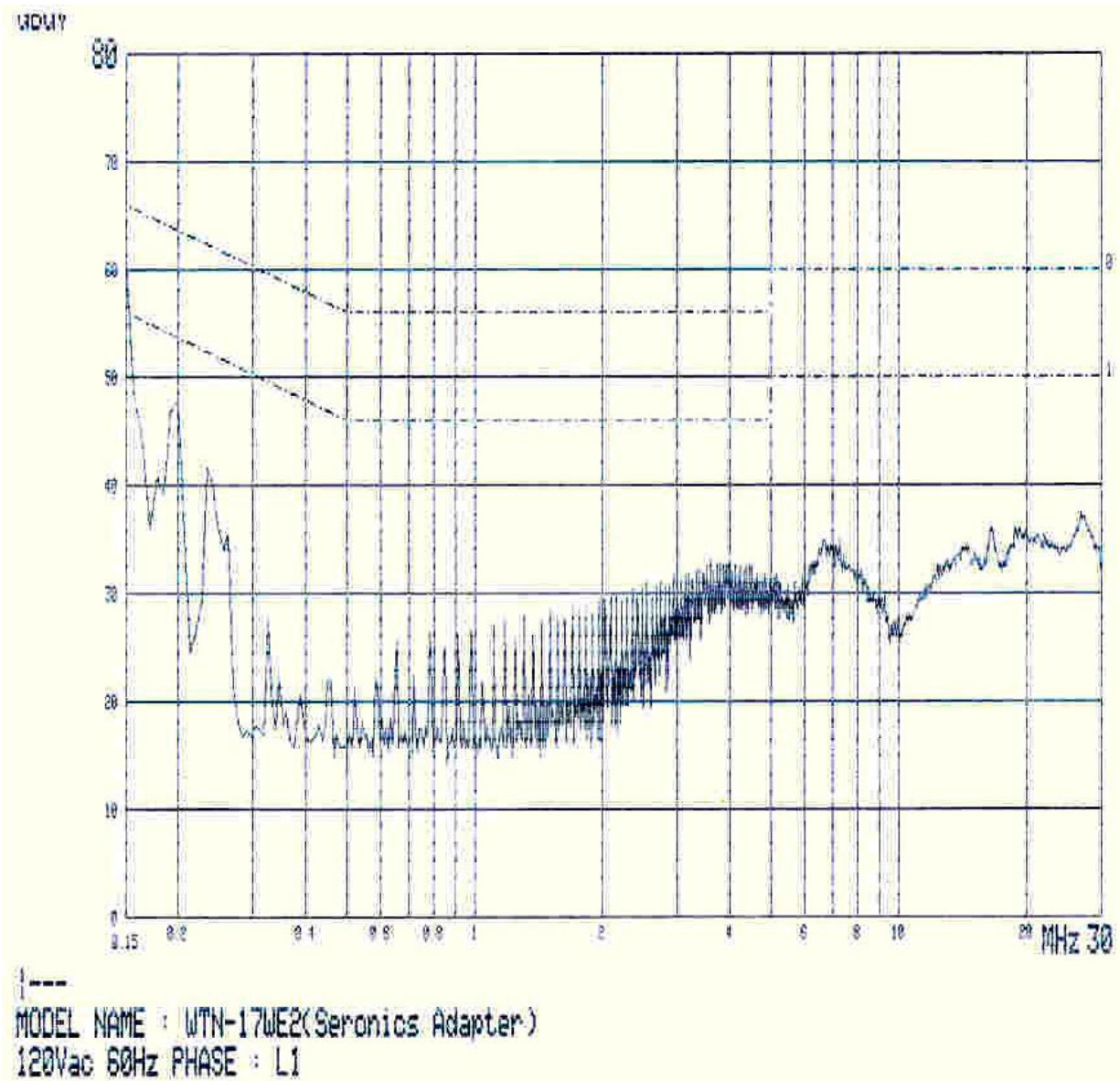
| Frequency<br>[MHz]              | Reading<br>[dB? V] |      | Phase | Insertion<br>Loss<br>(LISN) | Limit<br>[dB? V] |      | Margin<br>[dB] |      |
|---------------------------------|--------------------|------|-------|-----------------------------|------------------|------|----------------|------|
|                                 | Q-peak             | AV   |       |                             | Q-peak           | AV   | Q-peak         | AV   |
|                                 |                    |      |       |                             |                  |      |                |      |
| 0.194                           | 44.0               | 39.9 | L1    | 0.8                         | 63.8             | 53.8 | 19.0           | 13.9 |
| 0.260                           | 34.1               | 31.2 |       | 0.8                         | 61.4             | 51.4 | 26.5           | 19.4 |
| 3.575                           | 33.1               | 32.2 |       | 0.8                         | 56.0             | 46.0 | 22.1           | 13.0 |
| 3.702                           | 32.4               | 30.7 |       | 0.8                         | 56.0             | 46.0 | 22.8           | 14.5 |
| 6.695                           | 34.8               | 33.7 |       | 0.8                         | 60.0             | 50.0 | 24.4           | 15.5 |
| 26.913                          | 33.7               | 29.8 |       | 0.8                         | 60.0             | 50.0 | 25.5           | 19.4 |
| 0.195                           | 42.4               | 34.8 |       | N                           | 0.8              | 63.8 | 53.8           | 20.6 |
| 0.456                           | 34.2               | 29.2 | 0.8   |                             | 56.8             | 46.8 | 21.8           | 16.8 |
| 4.205                           | 19.8               | 16.5 | 0.8   |                             | 56.0             | 46.0 | 35.4           | 28.7 |
| 6.572                           | 35.8               | 34.9 | 0.8   |                             | 60.0             | 50.0 | 23.4           | 14.3 |
| 18.285                          | 32.8               | 27.2 | 0.8   |                             | 60.0             | 50.0 | 26.4           | 22.0 |
| 26.810                          | 32.9               | 29.2 | 0.8   |                             | 60.0             | 50.0 | 26.3           | 20.0 |
| Cable loss are less than 0.1 dB |                    |      |       |                             |                  |      |                |      |

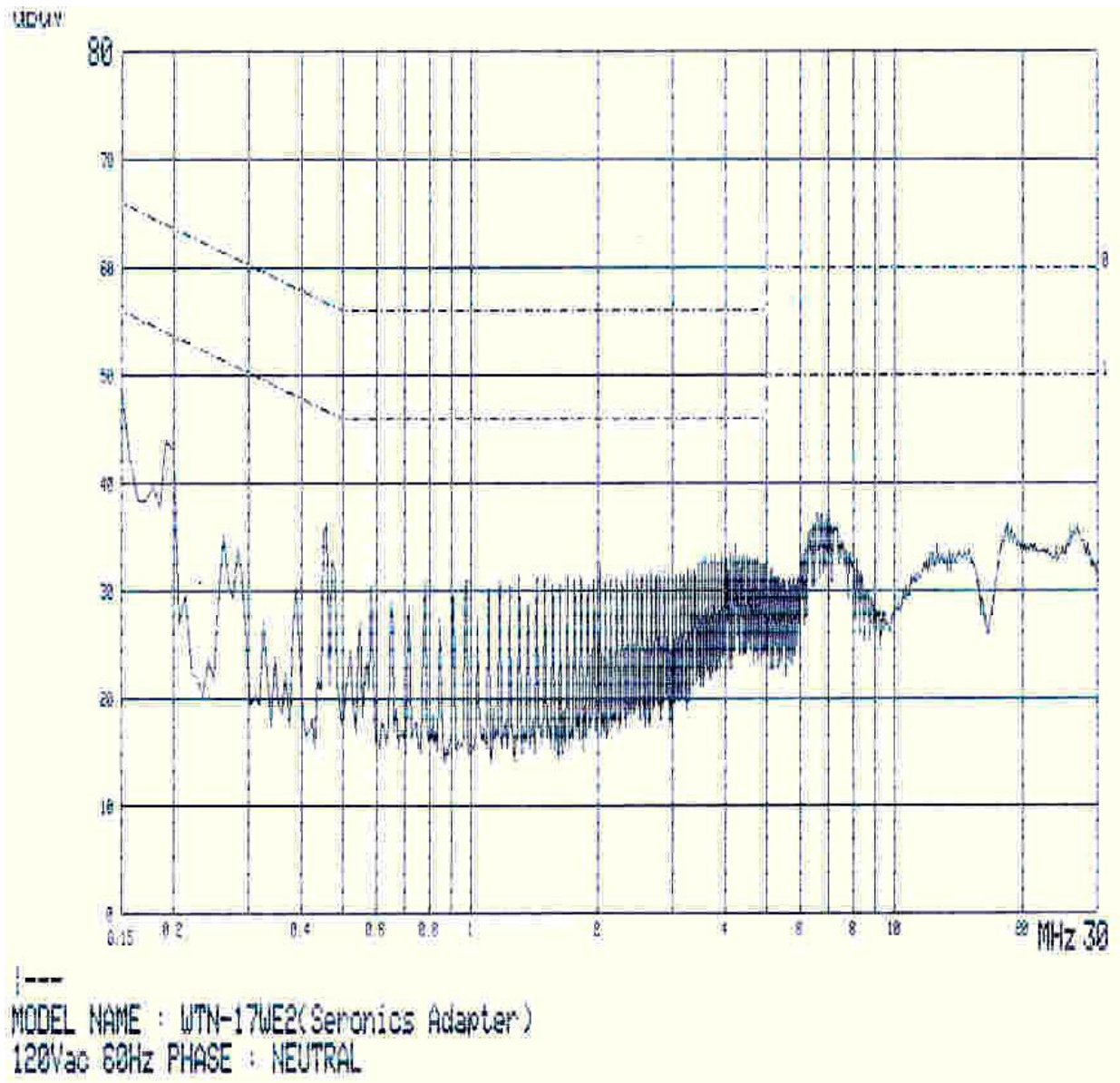
\*L1 : Live Line

\*\*N : Neutral Line

\*\*\* Please refer to data graphs at page 18 ~ 19.

Coverage factor of k=2 will ensure that the level of confidence will be approximately 95.45%,  
 Uncertainty U = -3.70 / +3.42 [dB]





## Radiation Test Data

Type WTN-17WE2  
 Manufacturer WOO YOUNG CO.,LTD.  
 Operation mode Scrolling "H" pattern display at 1024 x 768, 60 Hz  
 Environmental Condition Temperature : 13 °C  
 Humidity : 40 %  
 Atmospheric pressure : 1000 mbar  
 Test distance 3 m  
 Antenna VULB9160  
 Date Feb. 24, 2003

### Highest Emissions relative to the limit

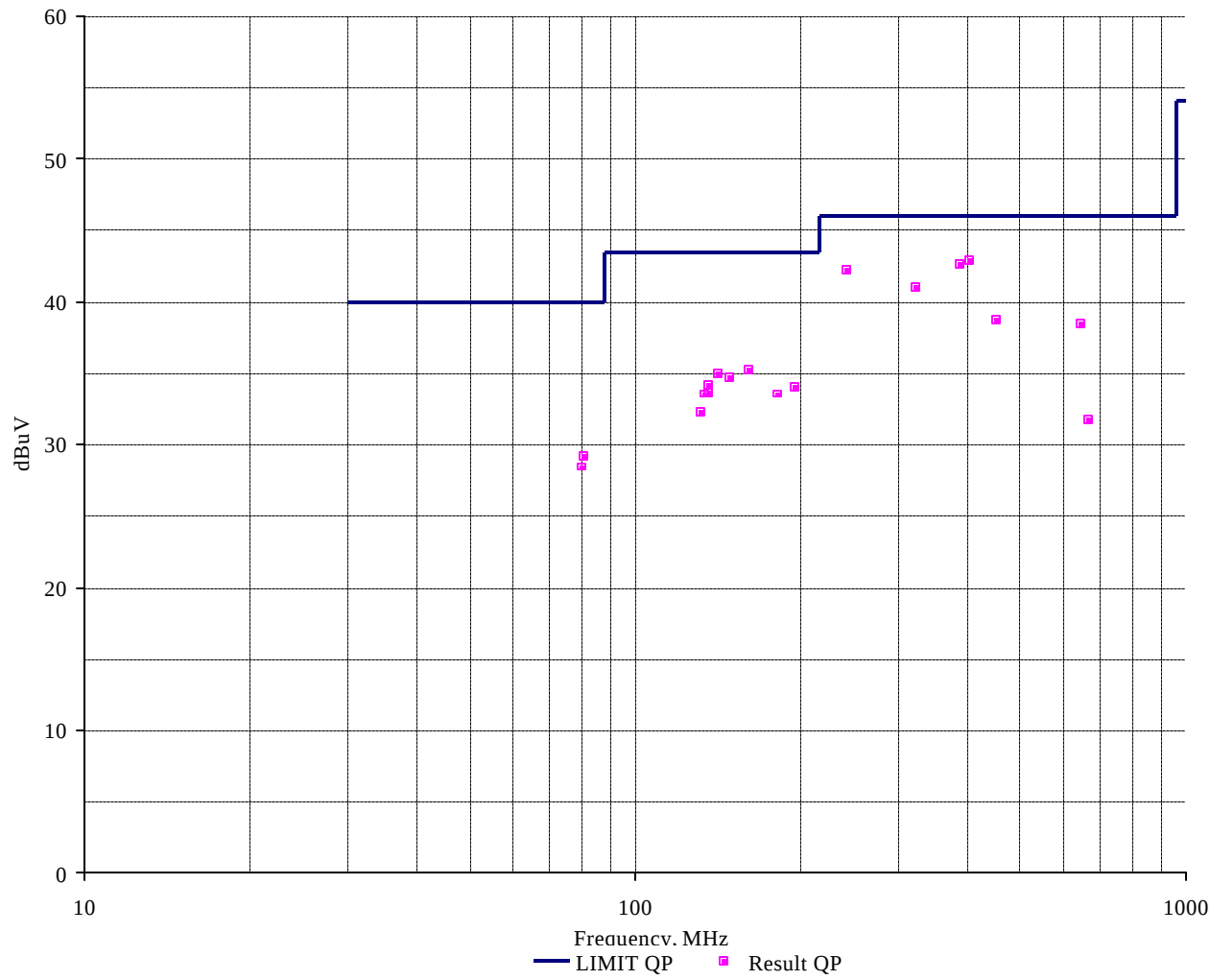
[Seronics Adapter]

| Freq.<br>[MHz] | Reading<br>[dBuV] | Antenna<br>Factor<br>[dB] | Cable<br>Loss<br>[dB] | Angle<br>[deg] | Height<br>[cm] | Polar<br>[H/V] | Result<br>[dBuV] | Limit<br>[dBuV] | Margin<br>[dB] |
|----------------|-------------------|---------------------------|-----------------------|----------------|----------------|----------------|------------------|-----------------|----------------|
| 80.3           | 19.1              | 7.7                       | 1.6                   | 195            | 100            | V              | 28.4             | 40.0            | 11.6           |
| 81.0           | 19.8              | 7.7                       | 1.6                   | 190            | 100            | V              | 29.1             | 40.0            | 10.9           |
| 132.4          | 19.5              | 10.6                      | 2.1                   | 320            | 100            | V              | 32.2             | 43.5            | 11.3           |
| 134.5          | 20.5              | 10.9                      | 2.1                   | 320            | 100            | V              | 33.5             | 43.5            | 10.0           |
| 136.0          | 21.0              | 11.0                      | 2.1                   | 0              | 181            | H              | 34.1             | 43.5            | 9.4            |
| 136.7          | 20.4              | 11.1                      | 2.1                   | 302            | 100            | V              | 33.6             | 43.5            | 9.9            |
| 142.5          | 21.0              | 11.7                      | 2.2                   | 0              | 120            | H              | 34.9             | 43.5            | 8.6            |
| 149.0          | 20.3              | 12.1                      | 2.3                   | 218            | 184            | H              | 34.7             | 43.5            | 8.8            |
| 162.0          | 20.6              | 12.3                      | 2.3                   | 24             | 181            | H              | 35.2             | 43.5            | 8.3            |
| 181.4          | 20.8              | 10.3                      | 2.4                   | 24             | 181            | H              | 33.5             | 43.5            | 10.0           |
| 194.9          | 22.6              | 8.9                       | 2.5                   | 348            | 100            | V              | 34.0             | 43.5            | 9.5            |
| 243.0          | 28.9              | 10.4                      | 2.9                   | 0              | 100            | H              | 42.2             | 46.0            | 3.8            |
| 324.0          | 25.9              | 11.7                      | 3.4                   | 0              | 133            | V              | 41.0             | 46.0            | 5.0            |
| 389.7          | 13.6              | 12.9                      | 4.1                   | 309            | 100            | V              | 42.6             | 46.0            | 3.4            |
| 405.0          | 25.2              | 13.3                      | 4.3                   | 170            | 113            | V              | 42.8             | 46.0            | 3.2            |
| 454.7          | 20.2              | 14.0                      | 4.5                   | 222            | 123            | V              | 38.7             | 46.0            | 7.3            |
| 647.9          | 16.4              | 17.1                      | 4.9                   | 158            | 129            | V              | 38.4             | 46.0            | 7.6            |
| 667.4          | 9.1               | 17.6                      | 5.0                   | 188            | 100            | V              | 31.7             | 46.0            | 14.3           |

Coverage factor of k=2 will ensure that the level of confidence will be approximately 95.45%,

Uncertainty U = -5.21 / +4.55 [dB]

MEASUREMENT OF DISTURBANCE RADIATION



## SUMMARY

### GENERAL REMARKS :

The equipment is not modified anything, mechanical or circuit to improve EMI status during a measurement and complied the regulation "Part 15 subpart B Class B of CFR 47"

### FINAL JUDGMENT :

The requirements according to the technical regulations are

☒ Kept ☐ Not kept

The equipment under test does

☒ Fulfill the general approval requirements mentioned on page 3.  
☐ Not fulfill the general approval requirements mentioned on page 3.

Begin of testing : Feb. 21, 2003

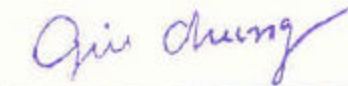
End of testing : Feb. 24, 2003

Reviewed by



Joon H. Lee / EMC Group Manager

Issued by



G. Chung / Chief