

**APPLICANT:** SOMAPA Information Technology Co., Ltd.  
**MODEL NO.:** SN-3450,SN-3500,SN-3550,SN-3600  
**FCC ID:** OSJSONIXPC

1/22

## CERTIFICATION

**We hereby certify that:**

The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4 (1992)/CISPR 22(1996) and the energy emitted by the sample EUT tested as described in this report is in compliance with CLASS B conducted and radiated emission limits of FCC Rules Part 15, Subpart B/CISPR 22(1996).

**Prepared by :** Carol Chen



**Reviewed by :** Andy Chiu



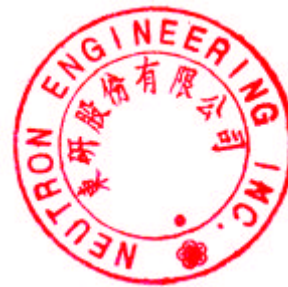
**Approved by :** George Yao



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**Company Stamp :**



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## 1. GENERAL INFORMATION

### 1-1. Product Description

The **SOMAPA Information Technology Co., Ltd.** Model : **SN-3450,SN-3500,SN-3550,SN-3600**(referred to as the EUT in this report) is a person computer. It is designed base on the Intel Pentium III series of processors.

A.The summarized features of the EUT are described as follows:

- ATX form factor of 12x7.75 inches with seven mounting screw holes
- Support for Intel Pentium III processor
- Three DIMM sockets
  - Supports up to 384 MB of synchronous DRAM(SDRAM)memory
- Intel 82440BX AGP set
  - PCI/AGP controller(PAC)
  - PCI ISA IDE Xcelerator(PIIX4E)
- I/O controller
- Two USB ports
- Intel/Phoenix Basic Input/Output System(BIOS)
- Single-jumper configuration
- Accelerated Graphics Port(AGP)connector
- 

#### B. Product Covered

The equipment under test covered in this test report includes the following sub-system, module, and/or accessory:

| Sub-system, Module, and/or Accessory | Model/Type No. | Int. Inst./ Ext. Connection |
|--------------------------------------|----------------|-----------------------------|
| HDD Drive                            | MPD3064AT      | Int. Inst.                  |
| FDD Drive                            | MPF920-1       | Int. Inst.                  |
| AGP VGA Card                         | AGP-V3000      | Int. Inst.                  |

#### C. Power Supply

Rating : AC 100-120/200-240V-7/4A,60/50Hz

A non-Shielded, detachable type Power cord, approximum1.5mm, provided.

#### D. I/O Interface Ports

- Serial Ports : Two provided for Mouse/Modem.
- Parallel Port : One provided for centronics printer.
- KB/Mouse Ports : Two Din connectors provided for KB and Mouse.
- USB Ports : Two provided for USB devices.
- Game Port : One provided for Joystick. It is not available during this report measurement.
- Audio Port : Three provided for audio In/Out devices. It is not available during this report measurement.

**1-2. Related Submittal(s) / Grant (s)****1-2-1. Models Covered**

Models covered in this test report for FCC ID filing are:SN-3450,SN-3500,SN-3550,SN-3600.

**1-2-2. Models Difference**

Model difference between each other is the CPU type no. designation. They are:

| Model   | CPU Type No.    |
|---------|-----------------|
| SN-3450 | Pentium III-450 |
| SN-3500 | Pentium III-500 |
| SN-3550 | Pentium III-550 |
| SN-3600 | Pentium III-600 |

**1-3. CPU Information**

The EUT is designed to accept interchangeable CPU Processor which the user may purchase either together with a system or separately. At the time of testing, only PentiumIII-600 of CPU were available for model SN-3600 Computer System.

| CPU Processor   | CPU Speed | Clock Speed / Osc.Freq. |
|-----------------|-----------|-------------------------|
| Pentium III-450 | 450MHz    | 100MHz                  |
| Pentium III-500 | 500MHz    | 100MHz                  |
| Pentium III-550 | 550MHz    | 100MHz                  |
| Pentium III-600 | 600MHz    | 100MHz                  |

#### 1-4. Tested System Details

The FCC IDs for all equipments, plus descriptions of all cables used in the tested system (including inserted cards, which have grants) are:

| Model No. | FCC ID      | Equipment | Cable                  |
|-----------|-------------|-----------|------------------------|
| SN-3600   | OSJSONIXPC  | PC        | Shielded Power Cord(1) |
| CM753ET   | N/A (3)     | Monitor   | Shielded Data Cable(2) |
| DPU-414   | N/A (3)     | Printer   | Shielded Data Cable    |
| DM-1414V  | N/A (3)     | Modem     | Shielded Data Cable    |
| FDA-104GA | F42FDA-104G | Keyboard  | Shielded Data Cord     |
| M-S34     | DZL211029   | Mouse     | Shielded Data Cable    |
| BTC7932   | N/A (3)     | USB K/B   | Shielded Data Cable    |
| MOSUU     | N/A (3)     | USB Mouse | Shielded Data Cable    |
|           |             |           |                        |
|           |             |           |                        |
|           |             |           |                        |
|           |             |           |                        |
|           |             |           |                        |
|           |             |           |                        |
|           |             |           |                        |
|           |             |           |                        |
|           |             |           |                        |
|           |             |           |                        |
|           |             |           |                        |

Notes:

- (1) EUT submitted for grant.
- (2) Monitor's attached video cable without ferrite core.
- (3) The support equipment was Authorized by Declaration of Conformity.

**1-5. Test Methodology**

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4 (1992) and CISPR22(1996). Radiated testing was performed at an antenna to EUT distance 10 meters.

**1-6. Test Facility**

The open area test site and conducted measurement facility used to collect the radiated data is located on the address of No. 132-1, Lane 329, Sec. 2, Palain Road, Shijr 221, Taipei, Taiwan, R.O.C. of NEUTRON ENGINEERING INC. This site has been fully described in report dated Jun. 25, 1999 Submitted to your office, and accepted in a letter dated Sep. 02, 1999 (Reg. No. 95335).

### 3. System Test Configuration

#### 3-1. Justification

The system was configured for testing in a typical fashion (as a customer would normally use it). Peripherals of EUT such as keyboard, modem, printer, monitor and, mouse. were also contained in this system in order to comply with the ANSI C63.4/CISPR 22 Rules requirement.

Moreover, the EUT provides two USB ports for interface with the USB interface protocols devices, two USB devices (such as KB and Mouse) were connected respectively during the measuring.

The only inserted I/O Card is the AGP-V3000 Video display card. The system was tested in the default 640x480/31.5KHz mode and in the highest resolution mode of 1600x1200/106KHz. Since the highest graphic mode of 1600x1200/106KHz was found to be the worst case, this mode was used to collect the included data.

In addition, the EUT is designed to accept interchangeable CPU processor, the VGA resolution mode set to highest one being used and perform pre-scanning for each separate CPU Speed utilized in the EUT. The CPU speed at 600MHz/100MHz external clocks in conjunction with the highest video resolution mode was selected for final measurements.

#### 3-2. EUT Exercise Software

The EUT exercise program used during radiated and conducted testing was designed to exercise the various system components in a manner similar to a typical use. The software, contained on a 3-1/2 inch disk, was inserted into driver A and is auto-starting on power-up. Once loaded, the program sequentially exercises each system component in turn. The sequence used is:

1. Read (write) from (to) mass storage device (Disk).
2. Send "H" pattern to video port device (Monitor).
3. Send " H " pattern to parallel port device (Printer).
4. Send " H " pattern to COM port device (Modem).
5. Repeated from 1 to 4 continuously.

As the, Keyboard/USB Keyboard and mouse/USB mouse are strictly input devices, no data is transmitted to (from) them during test. They are, however, continuously scanned for data input activity.




**3-3. Special Accessories**

N/A

**3-4. Equipment Modifications**

Not available for this EUT intended for grant.

Applicant Signature : 

Date : Sep. 06, 1999

Type/Printed Name : Namchoke Somapa

Position : Managing Director

### 3.5 Configuration of Tested System

The configuration of tested system is described as the block diagram shown in next page Figure 3.1 and details information of I/O cable and power cord connection are tabulated as Table A and B. The monitor is powered from a floor mounted receptacle (referred to as the wall outlet in the previous described) was tested.

**TABLE A - Test Equipment**

| Item | Equipment | Mfr.    | Model/Type No. | I/O Port       | FCC ID      | Remark |
|------|-----------|---------|----------------|----------------|-------------|--------|
| E-1  | PC        | SOMAPA  | SN-3600        |                | OSJSONIXPC  | EUT    |
| E-2  | Monitor   | HITCAHI | CM753ET        | VGA Port       | N/A (3)     |        |
| E-3  | Printer   | SII     | DPU-414        | Centronic Port | N/A (3)     |        |
| E-4  | Modem     | ACEEX   | DM-1414V       | Com Port       | N/A (3)     |        |
| E-5  | Keyboard  | Forward | FDA-104GA      | PS/2 Port      | F42FDA-104G |        |
| E-6  | Mouse     | HP      | M-S34          | PS/2 Port      | DZL211029   |        |
| E-7  | USB K/B   | BTC     | BTC7932        | USB Port       | N/A (3)     |        |
| E-8  | USB Mouse | PRIMAX  | MOSUU          | USB Port       | N/A (3)     |        |
|      |           |         |                |                |             |        |
|      |           |         |                |                |             |        |
|      |           |         |                |                |             |        |
|      |           |         |                |                |             |        |
|      |           |         |                |                |             |        |
|      |           |         |                |                |             |        |
|      |           |         |                |                |             |        |

**Remark:**

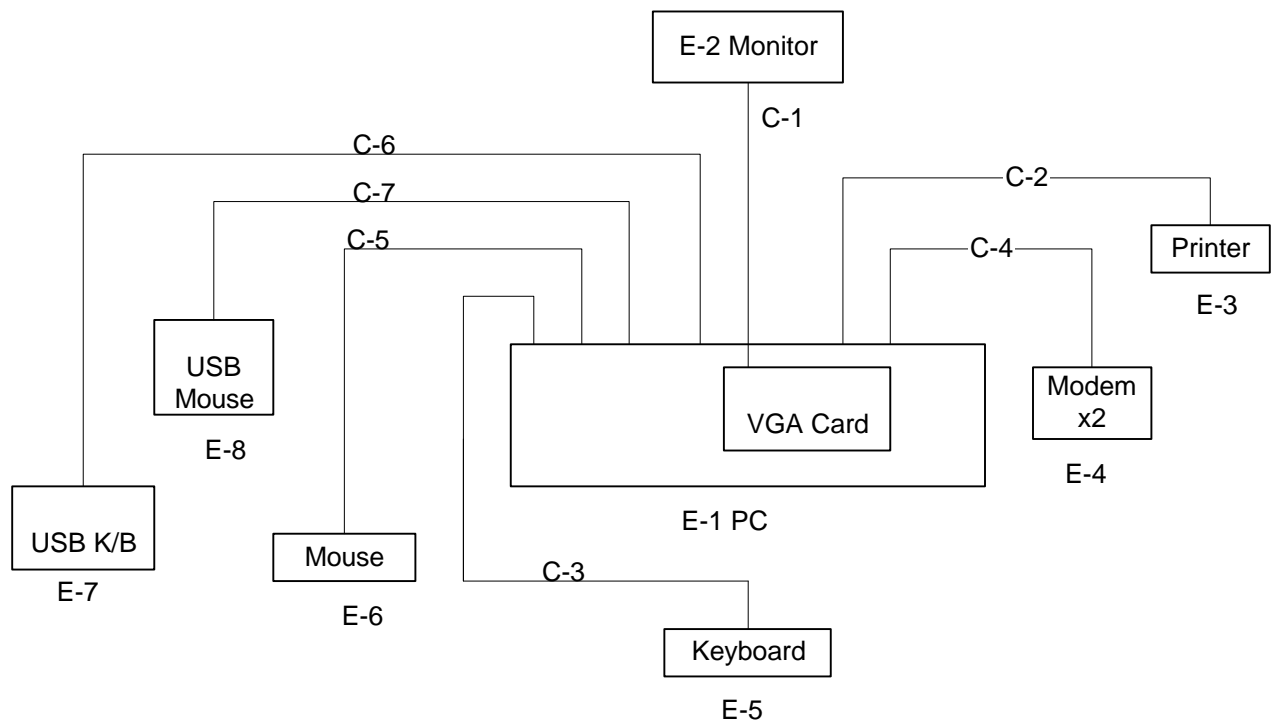
- (1) Unless otherwise denoted as EUT in Remark column, device(s) used in tested system is a support equipment.
- (2) Unless otherwise marked as ° in Remark column, Neutron consigns the supporting equipment(s) to the tested system.
- (3) The support equipment was Authorized by Declaration of Conformity.

**Table B. - Informations Cable Information**

| Item | I/O Cable        | Device Connected | Shieded | Ferrite | Detachable/Permanently | Note |
|------|------------------|------------------|---------|---------|------------------------|------|
| C-1  | Video Cable      | EUT-Monitor      | Yes     | No      | Permanently attached   |      |
| C-2  | Centronics Cable | EUT -Printer     | Yes     | No      | Detachable type        |      |
| C-3  | Keyboard Cable   | EUT - Keyboard   | Yes     | No      | Permanently attached   |      |
| C-4  | RS-232C Cable    | EUT- Modem       | Yes     | No      | Detachable type        |      |
| C-5  | Mouse Cable      | EUT- Mouse       | Yes     | No      | Permanently attached   |      |
| C-6  | USB K/B Cable    | EUT- USB K/B     | Yes     | No      | Permanently attached   |      |
| C-7  | USB Mouse Cable  | EUT- USB Mouse   | Yes     | No      | Permanently attached   |      |
|      |                  |                  |         |         |                        |      |
|      |                  |                  |         |         |                        |      |
|      |                  |                  |         |         |                        |      |
|      |                  |                  |         |         |                        |      |
|      |                  |                  |         |         |                        |      |
|      |                  |                  |         |         |                        |      |
|      |                  |                  |         |         |                        |      |
|      |                  |                  |         |         |                        |      |

**Note:**

- (1) Unless otherwise marked as \* in (Remark) column, Neutron consigns the supporting equipment(s) to the tested system.

**Figure 3.1 Configuration of Tested System**

#### 4. Block Diagram(s)

Figure 4.1 Block diagram of system, Page 14.A

## 5. Conducted and Radiated Measurement Photos

### 5-1. Conducted Measurement Photos





## 5-2. Radiated Measurement Photos



## 6. Conducted Emission Datas

- 6.1** The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range. significant peaks are then marked as shown on the following data page, and these signals are then quasi-peaked.

EUT Operation/Configuration Mode : Model: SN-3600

Test Mode : 1600x1200/85Hz/107KHz

**Judgement** : Passed by **-13.26 dB** in mode of **Line** terminal **0.26 MHz**

| Freq.<br>(MHz) | Terminal<br>L/N | Measured(dBuV) |         | Limits(dBuV) |         | Safe Margins |      |
|----------------|-----------------|----------------|---------|--------------|---------|--------------|------|
|                |                 | QP-Mode        | AV-Mode | QP-Mode      | AV-Mode | (dBuV)       | Note |
| 0.26           | Line            | 48.20          | *       | 61.46        | 51.46   | -13.26       | (QP) |
| 0.29           | Line            | 45.80          | *       | 60.41        | 50.41   | -14.61       | (QP) |
| 4.14           | Line            | 26.40          | *       | 56.00        | 46.00   | -29.60       | (QP) |
| 8.87           | Line            | 35.20          | *       | 60.00        | 50.00   | -24.80       | (QP) |
| 13.13          | Line            | 28.82          | *       | 60.00        | 50.00   | -31.18       | (QP) |
| 0.26           | Neutral         | 48.20          | *       | 61.46        | 51.46   | -13.26       | (QP) |
| 0.29           | Neutral         | 45.80          | *       | 60.41        | 50.41   | -14.61       | (QP) |
| 4.14           | Neutral         | 26.20          | *       | 56.00        | 46.00   | -29.80       | (QP) |
| 8.92           | Neutral         | 35.20          | *       | 60.00        | 50.00   | -24.80       | (QP) |
| 13.27          | Neutral         | 28.02          | *       | 60.00        | 50.00   | -31.98       | (QP) |

Remark :

- (1) Reading in which marked as QP means measurements by using are Quasi-Peak Mode with Detector BW=9KHz ; SPA setting in RBW=100KHz,VBW =100KHz, Swp. Time = 0.3 sec./MHz. Reading in which marked as AV means measurements by using are Average Mode with instrument setting in RBW=1MHz,VBW=10Hz, Swp. Time =0.3 sec./MHz.
- (2) All readings are QP Mode value unless otherwise stated AVG in column of(Note). If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform. In this case, a “\*” marked in AVG Mode column of Interference Voltage Measured.
- (3) Measuring frequency range from 150KHz to 30MHz.

Review : Andy Chiu Test Personnel. : David Date: Sep. 04, 1999



## 7. Radiated Emission Datas

**7.1** The following data lists the significant emission frequencies, measured levels, correction factor (includes cable and antenna corrections), the corrected reading, as well as the limit. Explanation of the Correction Factor is given in paragraph 7.2.

EUT Operation/Configuration Mode : Model : SN-3600

Test Mode : 1600x1200/85Hz/107KHz

**Judgement** : Passed by **-3.08 dB** in mode of **Vertical** terminal **428.00 MHz**

| Freq.<br>(MHz) | Ant.<br>H/V | Reading(RA)<br>(dBuV) | Corr.Factor(CF)<br>(dB) | Measured(FS)<br>(dBuV/m) | Limits(QP)<br>(dBuV/m) | Safe Margins<br>(dBuV/m) | Note |
|----------------|-------------|-----------------------|-------------------------|--------------------------|------------------------|--------------------------|------|
| 108.31         | H           | 36.30                 | -15.88                  | 20.42                    | 30.00                  | - 9.58                   |      |
| 108.34         | V           | 39.60                 | -15.88                  | 23.72                    | 30.00                  | - 6.28                   |      |
| 174.51         | H           | 34.20                 | -13.98                  | 20.22                    | 30.00                  | - 9.78                   |      |
| 180.51         | V           | 40.90                 | -14.33                  | 26.57                    | 30.00                  | - 3.43                   |      |
| 198.59         | H           | 39.00                 | -15.34                  | 23.66                    | 30.00                  | - 6.34                   |      |
| 198.61         | V           | 41.70                 | -15.34                  | 26.36                    | 30.00                  | - 3.64                   |      |
| 200.00         | V           | 40.60                 | -15.43                  | 25.17                    | 30.00                  | - 4.83                   |      |
| 203.20         | H           | 39.00                 | -15.33                  | 23.67                    | 30.00                  | - 6.33                   |      |
| 209.60         | H           | 37.30                 | -15.05                  | 22.25                    | 30.00                  | - 7.75                   |      |
| 400.80         | H           | 37.90                 | -7.94                   | 29.96                    | 37.00                  | - 7.04                   |      |
| 400.88         | V           | 41.50                 | -7.94                   | 33.56                    | 37.00                  | - 3.44                   |      |
| 428.00         | V           | 41.10                 | - 7.18                  | 33.92                    | 37.00                  | - 3.08                   |      |

Remark :

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz; SPA setting in RBW=1MHz, VBW =1MHz, Swp. Time = 0.3 sec./MHz.
- (2) All readings are Peak unless otherwise stated QP in column of (Note). Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (3) Measuring frequency range from 30MHz to 1000MHz.
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table.

Review :

*Andy Chiu*

Test Personnel. :

*David*

Date:

**Sep. 06, 1999**

**7. Radiated Emission Datas ( 1GHz~6GHz)**

**7.1** The following data lists the significant emission frequencies, measured levels, correction factor (includes cable and antenna corrections), the corrected reading, as well as the limit. Explanation of the Correction Factor is given in paragraph 7.2.

EUT Operation/Configuration Mode : Model : SN-3600

Test Mode :1600x1200/85Hz/107KHz

**Judgement** : Passed by **-5.25** in mode of **Horizontal** terminal **1200.00 MHz**

| Freq.<br>(MHz) | Polar.<br>H/V | Reading(RA)<br>(dBuV) | Corr.Factor.<br>(dB) | Corrected FS<br>(dBuV) | Limits (QP)<br>(dBuV/m) | Margins<br>(dBuV/m) | Note<br>(AV) |
|----------------|---------------|-----------------------|----------------------|------------------------|-------------------------|---------------------|--------------|
| 1200.00        | H             | 40.35                 | 8.40                 | 48.75                  | 54.00                   | - 5.25              |              |
| 1268.00        | V             | 28.82                 | 8.83                 | 37.65                  | 54.00                   | -16.35              |              |
| 1268.00        | H             | 27.51                 | 8.83                 | 36.34                  | 54.00                   | -17.66              |              |
| 1408.00        | H             | 23.57                 | 9.62                 | 33.19                  | 54.00                   | -20.81              |              |
| 1508.00        | V             | 23.96                 | 9.88                 | 33.84                  | 54.00                   | -20.16              |              |
| 1800.00        | V             | 27.14                 | 11.44                | 38.58                  | 54.00                   | -15.42              |              |
| 1800.00        | H             | 25.70                 | 11.44                | 37.14                  | 54.00                   | -16.86              |              |
| 1896.00        | V             | 23.40                 | 12.28                | 35.68                  | 54.00                   | -18.32              |              |
| 1896.00        | H             | 22.82                 | 12.28                | 35.10                  | 54.00                   | -18.90              |              |
| 2400.00        | V             | 22.77                 | 13.92                | 36.69                  | 54.00                   | -17.31              |              |
| 2464.00        | V             | 25.10                 | 14.03                | 39.13                  | 54.00                   | -14.87              |              |
| 2480.00        | H             | 22.86                 | 14.12                | 36.98                  | 54.00                   | -17.02              |              |

Remark :

- (1) Reading in which marked as Peak means measurements by using are Peak Mode with instrument setting in RBW=1 MHz ,VBW =1MHz, Swp. Time = 0.3 sec./MHz.
- (2) Reading in which marked as AV means measurements by using are Average Mode with instrument setting in RBW=1MHz,VBW=10Hz, Swp. Time =0.3 sec./MHz.
- (3) Measuring frequency range from 1000MHz to 6000MHz.
- (4) All readings are Peak unless otherwise stated AV in column of(Note). \* marked denotes that the Peak reading compliance with the Average Limits in FCC 15.109 and then the AV Mode measurement didn't perform.
- (5) If the peak scan value lower limit more than 20dB, then this signal data does not show in table

Review; G Andy Chiu

Test Personnel; G David

Date: Sep. 16, 1999

## 7-2. Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$\text{FS} = \text{RA} + \text{AF} + \text{CL} - \text{AG}$$

Where **FS = Field Strength**

**RA = Receiver Amplitude**

**AF = Antenna Factor (1)**

**CL = Cable Attenuation Factor (1)**

**AG = Amplifier Gain (1) (2)**

**Remark :**

(1) The Correction Factor =  $\text{AF} + \text{CL} - \text{AG}$ , as shown in the data tables' Correction Factor column.

(2) AG is not available for Neutron's Open Site Facility

### Example of Calculation:

Assume a Receiver Reading of 23.7 dBuV is obtained with an Antenna Factor of 7.2 dB and a Cable Factor of 1.1 dB Then:

1. The Correction Factor will be calculated by

$$\text{Correction Factor} = \text{AF} + \text{CF} - \text{AG} = 7.2 + 1.1 - 0 = 8.3 \text{ (dB)}$$

as shown in the data tables' Correction Factor column.

2. The Field Strength will be calculated by

$$\text{FS} = \text{RA} + \text{Correction Factor} = 23.7 + 8.3 = 32 \text{ (dBmV/m)}.$$

FS is the value shown in the data tables' Corrected Reading column and RA is the value shown in

the data tables' Receiver Reading column. The 32 dBuV/m value was mathematically converted

to its corresponding level in uV/m as:

$$\text{Log}^{-1}\{(32.0\text{dBuV/m})/20\} = 39.8 \text{ (uV/m)}$$

**7-3. Correction Factor VS Frequency**

| <b>Frequency (MHz)</b> | <b>Antenna Factor (dB)</b> | <b>Cable Loss (dB)</b> |
|------------------------|----------------------------|------------------------|
| 30.00                  | 11.10                      | 0.90                   |
| 35.00                  | 10.80                      | 0.50                   |
| 40.00                  | 11.20                      | 1.00                   |
| 45.00                  | 11.50                      | 0.80                   |
| 50.00                  | 11.30                      | 1.00                   |
| 55.00                  | 10.50                      | 1.30                   |
| 60.00                  | 9.90                       | 1.00                   |
| 65.00                  | 8.70                       | 1.50                   |
| 70.00                  | 7.60                       | 1.20                   |
| 75.00                  | 6.40                       | 1.40                   |
| 80.00                  | 6.10                       | 1.30                   |
| 85.00                  | 7.00                       | 1.40                   |
| 90.00                  | 8.00                       | 1.70                   |
| 95.00                  | 10.00                      | 1.50                   |
| 100.00                 | 11.20                      | 1.90                   |
| 110.00                 | 12.60                      | 2.00                   |
| 120.00                 | 13.00                      | 1.80                   |
| 130.00                 | 12.50                      | 1.80                   |
| 140.00                 | 12.00                      | 2.00                   |
| 150.00                 | 12.00                      | 2.20                   |
| 160.00                 | 13.20                      | 2.40                   |
| 170.00                 | 14.80                      | 2.50                   |
| 180.00                 | 16.30                      | 2.50                   |
| 190.00                 | 17.00                      | 2.50                   |
| 200.00                 | 17.30                      | 2.40                   |
| 225.00                 | 10.50                      | 2.70                   |
| 250.00                 | 11.70                      | 3.10                   |
| 275.00                 | 12.80                      | 3.70                   |
| 300.00                 | 14.50                      | 4.00                   |
| 325.00                 | 14.00                      | 4.50                   |
| 350.00                 | 14.20                      | 4.50                   |
| 375.00                 | 14.60                      | 4.60                   |
| 400.00                 | 15.10                      | 4.80                   |
| 450.00                 | 16.20                      | 5.40                   |
| 500.00                 | 17.60                      | 6.50                   |
| 550.00                 | 17.80                      | 7.00                   |
| 600.00                 | 18.40                      | 7.10                   |
| 650.00                 | 19.50                      | 7.10                   |
| 700.00                 | 20.80                      | 7.20                   |
| 750.00                 | 20.50                      | 7.50                   |
| 800.00                 | 21.10                      | 8.00                   |
| 850.00                 | 22.40                      | 8.60                   |
| 900.00                 | 23.50                      | 8.90                   |
| 950.00                 | 24.00                      | 9.70                   |
| 1000.00                | 24.80                      | 10.30                  |

**8. Photos of Tested EUT:**

1. Photo # 1 Front View Rear View
2. Photo # 2 Rear View
3. Photo # 3 Unit Partially Disassembled
4. Photo # 4 Unit Partially Disassembled
5. Photo # 5 Unit Partially Disassembled
6. Photo # 6 Unit Partially Disassembled
7. Photo # 7 Unit Partially Disassembled
8. Photo # 8 Unit Partially Disassembled
9. Photo # 9 Unit Partially Disassembled
10. Photo #10 Unit Partially Disassembled
11. Photo #11 Unit Partially Disassembled
12. Photo #12 Unit Partially Disassembled

## **Attachment**

User's Manual

