Statement of Conformity

Best Laboratory Co., Ltd.

No. 336, Ba Lian RD., Sec. 1, Hsi Chih City, Taipei Hsien, Taiwan, R.O.C. Telephone: 886-2-2646-2899 Facsimile: 886-2-2646-2870

EMC Certificate

Applicant : AAEON Technology Inc.

Address : 5F, No.135, Lane 235, Pao Chiao Road,

Hsin-Tien City, Taipei, Taiwan, R.O.C

Equipment: Panel PC

Model : AMB-2051HT, AMB-2051HTT,

AMB-2021HT, AMB-2021HTT

Has fully complied with the requirements set out in the council directive on the approximation of the law of the members states relating to Electromagnetic Compatibility Directive (89/336/EEC). For the evaluation regarding EMC, the following standards were applied:

EMI: EN 50081-2:1993 -> EN 55022:1998, EN 61000-3-2:1998, EN 61000-3-3:1995

EMS: EN 55024:1998 -> EN 61000-4-2:1998, EN 61000-4-3:1998,

EN 61000-4-4:1995, EN 61000-4-5:1995, EN 61000-4-6:1996, EN 61000-4-8:1993, EN 61000-4-11:1994, EN 61000-6-2:1999

The date of the measurement: Jan 18, 2001 The date of the certification sighed: Jan 18, 2001 The number of EMC Certificate: CER-A06-CE-158

Test Laboratory

Quality Department Manager: JEFF CHIU

CE CE CE CE CE CE CE

This verification is based on a single evaluation of one sample of above-mentioned products. It does not imply any assessment of the whole production and does not permit the use of the logo of the test laboratory.

EMC TEST REPORT

Applicant : AAEON Technology Inc.

Equipment: Panel PC

Model: AMB-2051HT, AMB-2051HTT,

AMB-2021HT, AMB-2021HTT

Test Report Certification

Best Laboratory Co., Ltd.

No. 336, Ba Lian Rd., Sec. 1, Hsi Chih City, Taipei Hsien, Taiwan, R.O.C. Tel: 886-2-2646-2899 Fax: 886-2-2646-2870

Applicant

: AAEON Technology Inc.

Address

: 5F, No.135, Lane 235, Pao Chiao Road, Hsin-Tien City, Taipei, Taiwan, R.O.C.

Equipment

: Panel PC

Model

: AMB-2051HT, AMB-2051HTT, AMB-2021HT, AMB-2021HTT

Device's Class

: Class A Device

Measurement Standard : EN 50081-2/1993, EN 55024/1998

Measurement Procedure: EN 55022/1998, EN 61000-3-2/1998, EN 61000-3-3/1995, EN 61000-4-2/1998, EN 61000-4-3/1998, EN 61000-4-4/1995,

EN 61000-4-5/1995, EN 61000-4-6/1996, EN 61000-4-8/1995,

EN 61000-4-11/1995, EN 61000-6-2/1999

Operating Voltage

: 230VAC, 50Hz

Test Result

: Compliance (Detail showed in the test report)

Sample Received

: Jan 05, 2001

Test Date

: Jan 18, 2001

Report Number

: RE-A06-CE-158

Test Firm

: No. 336, Ba Lian Rd., Sec. 1,

Hsi Chih City, Taipei Hsien, Taiwan, R.O.C.

Remark:

(1) The test report is only relating to the sample tested

(2) The test report shall not be reproduced except in full, without the written approval of Best Laboratory Co., Ltd.

Prepared

Approved

(Title: Quality Department Manager)

Date Issued

Report Number: RE-A06-CE-158 Best Laboratory Co., Ltd.

Test Date: Jan 18, 2001, Tel: 886-2-2646-2899

Panel PC

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Panel PC Fax: 886-2-2646-2870 EMC Test Report ------4/50



1. General Information

1.1 EUT Description

Applicant : AAEON Technology Inc.

Address : 5F, No.135, Lane 235, Pao Chiao Road,

Hsin-Tien City, Taipei, Taiwan, R.O.C.

Equipment : Panel PC

Model : AMB-2051HT, AMB-2051HTT,

Serial # 3 Port

Parallel Port

AMB-2021HT, AMB-2021HTT

Device's Class : Class A Device

Operation Voltage : 230VAC, 50Hz

Output Ports

PS/2 Keyboard : connect with a PS/2 keyboard which data cable is 120cm

long, non-shielded, no ferrite bead.

PS/2 Mouse : connected with A PS/2 mouse which data cable is 120cm

long, non-shielded, no ferrite bead.

Serial # 1 Port : connected with a external modern via one RS-232 cable

that is 70cm long, non-shielded, no ferrite bead.

Serial # 2 Port : connected with one RS-232 cable, which is 70cm

long, non-shielded, no ferrite bead, left unterminal. : connected with one RS-232 cable, which is 70cm

long, non-shielded, no ferrite bead, left unterminal.

: connected with one printer which data cable is 120cm

long, shielded, no ferrite bead.

VGA Port : via one 120cm long, shielded, with ferrite bead, data cable

to the monitor.

USB Ports : each one of the two USB ports is connected with one USB

mouse which data cable is 120 cm long, shielded, no

ferrite bead.

Microphone Port : connected with one earphone set which data cable is 1.9

meters long, non-shielded, no ferrite bead.

Line-Out Port : connected with one earphone set which data cable is 1.9

meters long, non-shielded, no ferrite bead.

Line-In Port : connected with one walkman which data cable is 1.8

meters long, shielded, no ferrite bead

LAN Port : via one RJ-45 cable, 25 meters long, non-shielded, no

ferrite bead, to one LAN card installed in one PC located

in far-end.

Power Port : via a 180 cm long, non-shielded, no ferrite bead, power

Cable to the AC power source.

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1.2 Test System Detail

 Monitor
 : HITACHI

 Model No.
 : CM771U

 Serial No.
 : V0E001074

 FCC ID
 : DoC Approval

 BSMI
 : 3882A707

Power Type : 100-240VAC, 50/60Hz, 1.5A, Switching
Power Cord : 180cm long, non-shielded, no ferrite bead.

120cm long, shielded, with ferrite bead

Backshell : Metal Connected Port : VGA Port

 Keyboard
 : HP (Pavilion)

 Model No.
 : SK-2506

 Serial No.
 : C0006002889

 FCC ID
 : DoC Approval

 檢磁
 : 3882A375

Power Type : By PC
Data Cable : 180cm long, shielded, no ferrite bead

Backshell : Metal

Connected Port : PS/2 Keyboard Port

Mouse : AT Tech Model No : OK-520

Serial No. : 990707032; 99070046 FCC ID : DoC Approval BSMI : 3872B356

Power Type : By PC

Data Cable : 120cm long, non-shielded, no ferrite bead

Backshell : Metal

Connected Port : PS/2 Mouse Port

 Modem
 : ACEEX

 Model No.
 : XDM-9624

 Serial No.
 : 0017884

 FCC ID
 : IFAXDM-9624

Power Type : 230VAC, 50Hz / 9VAC, 1A

Power Core : 1.9meters long, non-shielded, no ferrite bead : RS232, shielded, 1.2meters long, no ferrite be

: RS232, shielded, 1.2meters long, no ferrite bead RJ11C x 2, 7' long, non-shielded, no ferrite bead

Backshell : Metal

Connected Port : Serial #1 Port

Panel PC

EMC Test Report -----6/50

Printer : Epson Model No. : P950

Serial No. : BW9Y113923 FCC ID : DoC Approval BSMI : 3872P001

Power Type : 230VAC, 50Hz, 0.4A

Power Core : 165cm long, non-shielded, no ferrite bead Data Cable : 120cm long, shielded, no ferrite bead

Backshell : Metal Connected Port : Parallel Port

USB Mouse : Logitech Model No. : M-BB48

Serial No. : LZE92250126, LZE92250247

FCC ID : DoC Approval BSMI : 4872A221 Power Type : By PC

Data Cable : 120cm long, shielded, no ferrite bead

Backshell : Metal Connected Port : USB Ports

 Walkman
 : KOKA

 Model No.
 : KW-250

 Serial No.
 : N/A

FCC ID : DoC Approval

Power Type : 9VDC

Data Cable : 120cm long, shielded, no ferrite bead

Backshell : Metal Connected Port : Line-in Port

Earphone set : KOKA
Model No. : MS-321
Serial No. : N/A

FCC ID : DoC Approval

Data Cable : 145cm long, non-shielded, no ferrite bead

Backshell : Metal

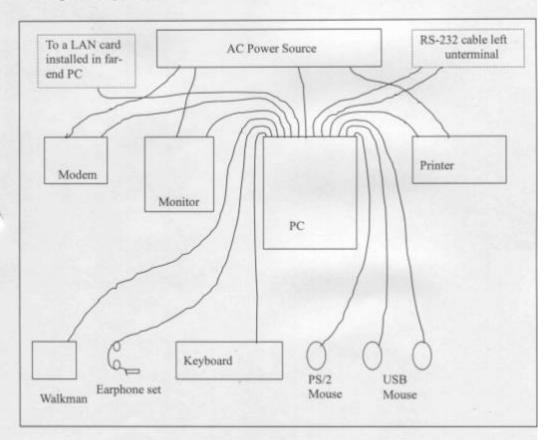
Connected Port : Microphone & Line-Out Port

1.3 EUT Configuration

- (1) The power port of EUT is connected with the AC power source via a power cable.
- (2) The PS/2 keyboard port of EUT is connected with a PS/2 keyboard.
- (3) The PS/2 mouse port of EUT is connected with a PS/2 mouse.
- (4) The parallel port of EUT is connected with a printer.
- (5) The serial #1 port of EUT is connected with an external modem.
- (6) The serial #2 #3 port of EUT are each connected with an RS-232 cable left unterminal.
- (7) The VGA port of EUT is connected with a monitor.
- (8) The LAN port of EUT is connected with a LAN card installed in one PC located in far-end via one HUB.
- (9) Each one of the two USB ports is connected with one USB mouse.
- (10) The Line-In port of EUT is connected with one Walkman.
- (11) The microphone and Line-Out port is connected with one earphone set.

(***PS: Please refers to the Photograph***)

Drawing of Configuration



EMC Test Report -----8/50

1.4 EUT Exercise Software

The testing software is provided by the applicant.

It is designed to exercise the EUT in a manner similar to a typical use. The software will send an "H" pattern to the monitor and the "H" pattern will be shown on the monitor. It would be also sent to the parallel port and the printer will print out the "H" pattern. At the same time, the mouse and keyboard will be in continuously self-test mode and responded to the EUT. The LAN port will be continuous to receive and transmit the data, The LAN card will be continuous to receive and transmit the data to the LAN port. The Walkman will be continuous to transmit the sound to the EUT. The software will enable all functions of EUT.

1.5 Test Performed

Conducted emissions were invested over the frequency range from 0.15MHz to 30MHz using a receiver which bandwidth is set at 9KHz.

Radiated emissions were invested over the frequency range from 30MHz to 1000MHz using a receiver which bandwidth is set at 120KHz. Radiated measurement was performed at distance that from an antenna to EUT is 10 meters.

The testing result of pretest was shown out that the "Testing" mode is worse than the "Standby" mode. So, the final measurement was made on the "Testing" mode.

When the measurement was taken, there are three video resolution modes tested: 400 * 800, 640 * 480, 1024 * 768.

Panel PC

EMC Test Report -----9/50

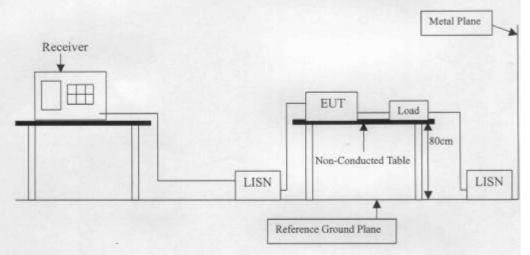
2 Conducted Emission Measurement

2.1 Test Equipment

No.	Instrument	Manufacture	Model	Serial No.	Last Calibrate
1.	LISN (EUT)	Rolf Heine	NNB-2/16Z	99084	Dec. 14, 1999
2.	LISN (AXE)	Rolf Heine	NNB-2/16Z	99086	Dec. 14, 1999
3.	EMI Receiver	Rohde & Schwarz	ESI 7	830154/001	Nov. 22, 1999
4.	50Ω Terminator	Amphenol	46650-51	N/A	Mar. 10, 2000
5.	RF Cable	Belden	M17/158	MIL-C-17	Jan. 20, 2000

Remark: All equipment upon which need to calibrated are with calibration period of 1 year.

2.2 Test Set-Up



2.3 Limit

Frequency	Limit (dBµV)					
	Class	Class A		ss B		
MHz	Quasi Peak	Average	Quasi Peak	Average		
0.15 ~ 0.50	79	66	66 ~ 56	56 ~ 46		
0.50 ~ 5.0	73	60	56	46		
5.0 ~ 30.0	73	60	60	50		

Remark: In the above table, the tighter limit applies at the band edges.

EMC Test Report ------10/50

2.4 Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). It provides a 50 ohm / 50 μ H coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50 ohm / 50 μ H coupling impedance with 50 ohm termination. (Please refers to the block diagram of the test setup and photograph.)

Both sides of AC line are checked for the maximum conducted emission interference. In order to find the maximum emissions, the relating positions of equipment and all of the interference cables must be changed according to EN 55022/1998 regulation: The measurement procedure on conducted emission interference.

The resolution bandwidth of the field strength meter (Rohde & Schwarz) is set at 9KHz.

2.5 Test Specification

According to the EN 55022/1998

2.6 Test Result

The emissions that come from the EUT were below the specified limits. The worst case of conducted emissions measurement are shown in the appendix A. The acceptance criterion was met and the EUT has pass the measurement.

Panel PC

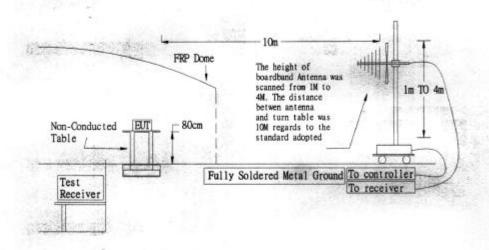
3. Radiated Emission Measurement

3.1 Test Equipment List

No.	Instrument	Manufacture	Model	Serial No.	Last Calibrate
1.	Antenna	Mess-Elektronik	VULB 9160	9160-3078	Jan. 19, 2000
2.	EMI Receiver	Rohde & Schwarz	ESI 7	830154/001	Nov. 22, 1999
3.	RF Cable	Adventest	AD-N-CA-01	2000-0220	Apr. 01, 2000
4.	OATS	Bestlab	N/A	OATS#1	Mat 30, 2000

Remark: All equipment upon which need to calibrated are with calibration period of 1 year.

3.2 Test Setup



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3.3 Limit

Frequency	Cla	ss A	Class B		
MHz	Distance (Meter)	Limit (dBµV)	Distance (Meter)	Limit (dBµV)	
30 ~ 230	10	40	10	30	
230 ~ 1000	10	47	10	37	

Remark: In the above table, the tighter limit applies at the band edges

3.4 Test Procedure

The EUT and its simulators are placed on turn table, non-ducted and wooden, which is 0.8 meter above ground. The turn table rotates 360 degree to determine the position of the maximum emission level. The EUT was positioned such that distance from antenna to the EUT is 10 meters.

The antenna is moved up and down between 1 meter to 4 meter to receive the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interference cables must be manipulated according to EN 55022/1998 regulation: the test procedure of the radiated emission measurement.

The bandwidth set on the field strength is 120KHz when the frequency range is below 1GHz

3.5 Test Specification

According to EN 55022/1998

3.6 Test Result

The emissions that come from the EUT were below the specified limits. The worst case of conducted emissions measurement are shown in the appendix A. The acceptance criterion was met and the EUT has pass the measurement.

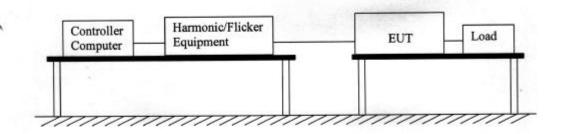
EMC Test Report -----13/50

4. Power Harmonic and Voltage Fluctuation Measurement

4.1 Power Harmonic and Voltage Fluctuation Test Equipment List

No.	Instrument	Manufacture	Model	Serial No.	Last Calibrate
1.	H/F Test System	EMC Partner	Harmonic-1000	325807	Jun. 10, 2000
	Remark: All equipm	ent upon which need	to calibrated are with	calibration pe	eriod of 1.5 year.

4.2 Test Setup



4.3 Limit of Harmonic Current

Limit of Harmonic Currents

Harmonic Order	Maximum Permissible Harmonic Current (Ampere)	Harmonic Order	Maximum Permissible Harmonic Current (Ampere)
C	Odd Harmonic		Even Harmonic
3	2.30	2	1.08
5	1.14	4	0.43
7	0.77	6	0.30
9	0.40	8≤ n ≥ 40	0.23 x 8/n
11	0.33		
13	0.21		V
15≤ n ≥ 39	0.15 x 15/n		

EMC Test Report -----14/50

4.4 Test Procedure

The EUT is supplied in series with power analyzer from a power source has the same normal voltage and frequency as the rated supply voltage and the equipment under test. The rated voltage at the supply voltage of EUT of 0.94 times and 1.06 times shall be performed.

4.5 Test Specification

According to EN 61000-3-2/1998, EN 61000-3-3/1995

4.6 Test Result

The measurement of the power harmonics, which test at the extremes of EUT's supply range, was investigated and the test result was shown on the Appendix A. The acceptance criterion was met and the EUT has pass the measurement.

Report Number: RE-A06-CE-158 Best Laboratory Co., Ltd. Test Date: Jan 18, 2001, Tel: 886-2-2646-2899 Panel PC Fax: 886-2-2646-2870 EMC Test Report ------15/50

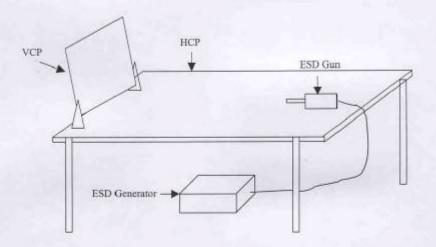
5. Electrostatic Discharge (ESD)

5.1 Test Equipment List

No.	Instrument	Manufacture	Model	Serial No.	Last Calibrate
1.	ESD Emulator	Noiseken	ESS-100L	0199C02380	Feb. 02, 2000

Remark: All equipment upon which need to calibrated are with calibration period of 1.5 year.

5.2 Test Setup



5.3 Test Level

Item	Environment	Unit	Test Specification	Performance Criteria
Enclosur	e Room	KV(Charge	Voltage)	В
	Electrostatic Dis	charge	8 (Air Discharge) 4 (Contact Discharge)	

EMC Test Report -----16/50

5.4 Test Procedure

Direct applicant of discharge to the EUT:

Contact discharge was applied only to the conducted surfaces of the EUT.

Air discharge was applied only to the non-conductive surfaces of the EUT.

When the measurement was taken, The ESD discharger was performed in single discharge. For the single discharge time between successive single discharges will keep on one second. It was at least ten single discharges with positive and negative at the same selected pointed. The selected pointed, which was performed with electrostatic discharge, was marked on the red label on the EUT.

Indirect applicant of discharge to the EUT:

Vertical Coupling Plane (VCP)

The coupling plane, of dimensions 0.5m x 0.5m, is placed parallel to, and positioned at a distance 0.1m from, the EUT, with the discharge electrode touching the coupling plane.

The four faces of the EUT will be performed with electrostatic discharge. It was at least ten single discharges with positive and negative at the same selected point.

Horizontal Coupling Plane (HCP)

The coupling plane is placed under the EUT. The generator shall be positioned vertically at a distance of 0.1m from the EUT, with the discharge electrode touching the coupling.

The four faces of the EUT will be performed with electrostatic discharge. It was at least ten single discharges with positive and negative at the same selected pointed.

5.5 Test Specification

According to EN 61000-4-2/1998

5.6 Test Result

The measurement of the electrostatic discharge was investigated and the test result was shown on the Appendix A. The acceptance criterion was met and the EUT has passed the measurement.

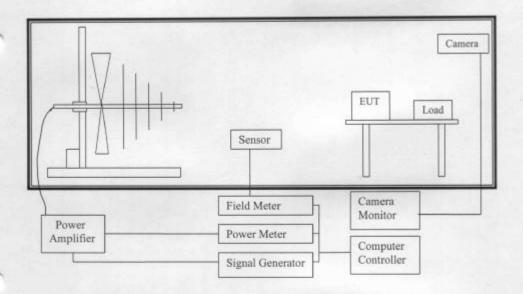
6. Radiated Susceptibility (RS)

6.1 Test Equipment List

No.	Instrument	Manufacture	Model	Serial No.	Last Calibrate
1.	Signal Generator Amplifier	Rohde & Schwarz Amplifier Research	SMY 02 100W1000M1A	845069/018 20638	May 02, 1999 May 01, 1999
3.	Field Monitor	Amplifier Research	FM 2000	20391	Mar. 03, 1999

Remark: All equipment upon which need to calibrated are with calibration period of 1.5 year.

6.2 Test Setup



6.3 Test Level

Item	Environment	Unit	Test Specification	Performa	nce Criteria
Enclosu	ire Room				
	Radio -Frequency	MHz		80~1000	A
	Electromagnetic Field	V/m (u	nmodulated, rms)	10	
	Amplitude Modulated	%AM (1KHz)	80	

EMC Test Report ------18/50

6.4 Test Procedure

The EUT and load, which are placed on a wooden table that the height is 0.8 meter above ground, are placed with one coincident with the calibration plane such that the distance from antenna to the EUT is 3 meters.

Both horizontal and vertical polarization of the antenna position and four sides of the EUT are set on measurement.

In order to judge the EUT performance, a CCD camera is used to monitor the situation of EUT.

All the scanning conditions are as follows:

Condition of Test	Remarks
EN 61000-4-3/1998	
1. Field Strength	10V/M; Level 3
2. Radiated Signal	AM 80% modulated with 1KHz
3. Scanning Frequencies	80MHz ~ 1000MHz
4. Dwell Time	3 seconds
5. Frequency step size Δf	1%
6. The rate of swept of frequency	1.5 x 10 3 decades/s

***** The above measurement was performed in HomeTek TechnologyInc. *****

6.5 Specification

According to EN 61000-4-3/1998

6.6 Test Result

The measurement of the radiated susceptibility was investigated and the test result was shown on the appendix A. The acceptance criterion was met and the EUT has passed the measurement.

Panel PC

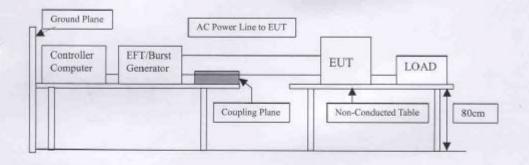
7 Electrical Fast Transient/Burst (EFT/B)

7.1 Test Equipment List

No.	Instrument	Manufacture	Model	Serial No.	Last Calibrate
1.	EMC Test System	EMC Partner	Transient-1000	TR1000-341	Aug. 25, 1999
2.	Absorbing Clamp	EMC Partner	Transient-1000	CNEFT1000-176	Aug. 25, 1999

Remark: All equipment upon which need to calibrated are with calibration period of 1.5 year.

7.2 Test Setup



7.3 Test Level

Item	Environment	Unit Test Specific	ation	Performance Criteria
Ports for s	signal Lines and Control L	ines	-	В
	ast Transients Common	KV (Peak)	1	
N	1ode	Tr/Ts (ns)	5/50	
		Rep. Frequency (KHz)	5	
OC Input a	nd DC Output Power Ports	3		В
F	ast Transients Common	KV (Peak)	2	
N	lode	Tr/Ts (ns)	5/50	
		Rep. Frequency (KHz)	5	
input and C	Output AC Power Ports			В
F	ast Transients Common	KV (Peak)	2	
N	1ode	Tr/Ts (ns)	5/50	
		Rep. Frequency (KHz)	5	
Functional	Earth Ports			В
F	ast Transients Common	KV (Peak)	1	
N	fode	Tr/Ts (ns)	5/50	
		Rep. Frequency (KHz)		
	ber: RE-A06-CE-158 tory Co., Ltd.	Test Date: Jan 18, 2001, Tel: 886-2-2646-2899		Panel PC Fax: 886-2-2646-2870

EMC Test Report -----20/50

7.4 Test Procedure

The EUT and load are placed on a wooden table that is 0.8meter height above a metal ground plane dimension is 1m x 1m and thickness is at least 0.2mm. It also projected beyond the EUT by at lease 0.1meter on all sides.

For Input and Output AC power or DC Input and DC Output Power Ports:

The EUT is connected with the power mains through a coupling device that directly couples the EFT interference signal.

Each of the line and nature conductors is impressed with burst noise for 1 minute.

For Functional Earth Port:

The EUT is connected to the power mains through a coupling device that directly couples the EFT interference signal.

The protective earth line (PE) is impressed with burst noise for 1 minute.

The length of power cord between the coupling device and the EUT shall be 1 meter. For signal Lines and Control Lines Test:

The EFT interference signal is through a coupling clamp device couples to the signal and controllines of the EUT with burst noise for 1 minute.

7.5 Test Specification

According to EN 61000-4-4/1995

7.6 Test Result

The measurement of the Electrical Fast Transient/Burst was investigated and test result was shown on the appendix A. The acceptance criterion was met and the EUT has passed the measurement.

Panel PC

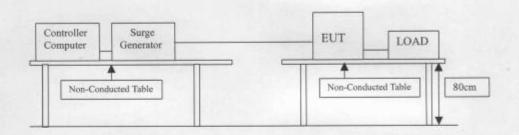
EMC Test Report -----21/50

8 Surge

8.1 Test Equipment List

No	Instrument	Manufacture	Model	Serial No.	Last Calibrate
1.	EMC Test System	EMC Partner	Transient-1000	TR1000-341	Aug. 25, 1999
	Remark: All equipme	ent upon which ne	ed to calibrated ar	e with calibration p	period of 1.5 year.

8.2 Test Setup



8.3 Test Level

d DC Output Power Port Surge			
	Te/Te (us)	The state of the s	
	Tr/Ts (µs)	1.2/50(8/20)	В
Line to Ground	KV	±0.5	
Line to Line	KV	±0.5	
d Ac Output Power Port	s		
Surge	Tr/Ts (µs	1.2/50(8/20)	В
Line to Ground	KV	±4	
Line to Line	KV	±2	
	Line to Line d Ac Output Power Ports Surge Line to Ground	Line to Line KV d Ac Output Power Ports Surge Tr/Ts (µs Line to Ground KV	Line to Line KV ± 0.5 d Ac Output Power Ports Surge $Tr/Ts (\mu s)$ $1.2/50(8/20)$ Line to Ground KV ± 4

EMC Test Report -----22/50

8.4 Test Procedure

The EUT and its load are placed on a table which is 0.8 meter height above a metal ground plane dimension is 1 meter x 1 meter and the thickness is 0.5 mm. It's also projected beyond the EUT at least 0.1 meter on all sides. The length of power cord between the coupling device and the EUT shall be 2meter or less.

For Input and Output AC Power or DC Input and Dc Output Power Ports: The EUT is connected to the power mains through a coupling device that directly couples the Surge interference signal.

The Surge noise shall be applied synchronized to the voltage phase at 0°, 90°, 180°, 270° and the peak value of the AC voltage wave. (Positive and Negative) Each of line-earth and line-line is impressed with a sequence of five surge voltages with interval of 1 minute.

8.5 Test Specification

According to EN 61000-4-5/1995

8.6 Test Result

The Measurement of the Surge was investigated and the test result was shown on the appendix

A. The acceptance criterion was met and the EUT has passed the test.

Report Number: RE-A06-CE-158 Best Laboratory Co., Ltd. Test Date: Jan 18, 2001, Tel: 886-2-2646-2899

Panel PC

EMC Test Report -----23/50

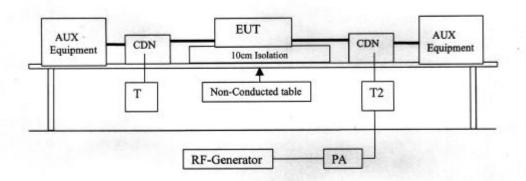
9 Conducted Susceptibility

9.1 Test Equipment List

No.	Instrument	Manufacture	Model	Serial No.	Last Calibrate
2. 4.	Signal Generator Power Amplifier Directional Coupler CDN	Rohde & Schwarz Amplifier Research Amplifier Research FCC	SMY 02 100W1000M1A DC2600 FCC-801-M3-25A	20508	May 02, 1999 May 01, 1999 Aug. 23, 1999 Aug. 23, 1999

Remark: All equipment upon which need to calibrated are with calibration period of 1.5 year.

9.2 Test Setup



EMC Test Report -----24/50

9.3 Test Level

Item	Environment	Unit	Test Specification		nce Criteria
Ports for S	ignal Lines and Data Buses	s, not inv	olved in process contr	ol, etc.	142
1 0110 101 0	Radio-Frequency	MHz		$0.15 \sim 80$	A
	Common Mode	V (rms.	Unmodulated)	10	
	Amplitude Modulated	%AM (80	
	Amphitude Modulated		Impedance	150	
Ac Innut an	d AC Output and DC Inpu	t and DC	output Ports and Fun	ctional Earth Po	orts
te input in	Radio-Frequency	MHz	200	0.15 ~ 80	Α
	Common Mode	V (rms	, Unmodulated)	10	
	Amplitude Modulated		(1KHz)	80	
	Amphiade Modulated		Impedance	150	

9.4 Test Procedure

The EUT are placed on a table which is 0.8meter height and a ground reference plane on the table, the EUT are placed upon table and use a 10cm insulation between the EUT and ground reference plane.

For AC Input and AC Output Power or DC Input and DC Output Power Ports
The EUT is connected to the power mains through a coupling and decoupling networks for
power supply lines. It also directly couples the disturbance signal into EUT. Use CDN-M2 for
two wires or CDN-3 for three wires.

For Signal Lines Lines and Control Lines Test:

The disturbance signal is through a coupling and decoupling networks (CDN) or EM-clamp device couples to the signal and control lines of the EUT.

All scanning frequencies conditions are as following:

Condition of Test	Remarks:
1. Field Strength	10V, Level 3
	AM 80% modulated with 1KHz
	0.15MHz ~ 80MHz
4. Dwell Time	3 seconds
5. Frequency step size Δf	1%
6. The rate of Swept of Frequency	1.5×10^{-3} decades/s
5. Frequency step size Δf	AM 80% modulated with 1KHz 0.15MHz ~ 80MHz 3 seconds 1%

***** The above measurement was performed in HomeTek Technology Inc. *****

9.5 Test Specification

According to EN 61000-4-6/1995

9.6 Test Result

The Measurement of the Conducted Susceptibility was investigated and the test result was shown on the appendix A. The acceptance criterion was met and the EUT has passed the test.

Report Number: RE-A06-CE-158 Best Laboratory Co., Ltd. Test Date: Jan 18, 2001, Tel: 886-2-2646-2899 Panel PC Fax: 886-2-2646-2870 EMC Test Report -----25/50

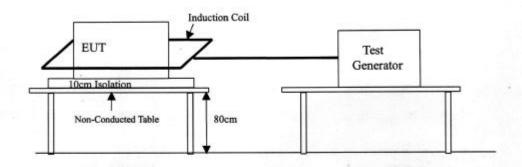
10 Power Frequency Magnetic Field

10.1 Test Equipment List

No.	Instrument	Manufacture	Model	Serial No.	Last Calibrate
1.	EMC Test System	EMC Partner	Transient-1000	TR1000-341	Aug. 25, 1999
2.	Magnetic Coil	EMC Partner	MF-1000	MF1000-1-51	Aug. 25, 1999

Remark: All equipment upon which need to calibrated are with calibration period of 1.5 year.

10.2 Test Setup



10.3 Test Level

Item	Environment	Unit	Test Specification	Performance Criteria
Enclosure	Room			
Power	-Frequency	50	Hz	A
Magne	etic Field	30	A/M	
11-03-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-				

EMC Test Report ————26/50

10.4 Test Procedure

The EUT and its load are placed on a table that is 0.8 meter above the metal ground plane dimension is at least 1 meter x 1 meter. The test magnetic field shall be placed at least than 3 meter distance from the induction coil.

The test magnetic field shall be applied by the immersion method to the EUT. The induction coil shall be rotated by 90° in order to expose the EUT to the test field with different orientation (X, Y, Z orientation).

10.5 Test Specification

According to EN 61000-4-8/1995

10.6 Test Result

The Measurement of the Power Frequency Magnetic Field was investigated and the test result was shown on the appendix A. The acceptance criterion was met and the EUT has passed the test.

Report Number: RE-A06-CE-158 Best Laboratory Co., Ltd. Test Date: Jan 18, 2001, Tel: 886-2-2646-2899

Panel PC

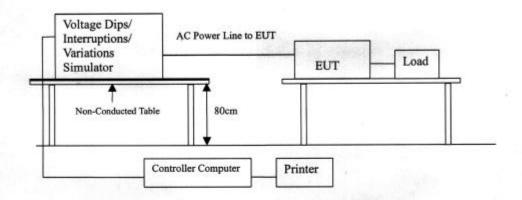
EMC Test Report ------27/50

11. Voltage Dips and Interruption Measurement

11.1 Test Equipment List

No.	Instrument	Manufacture	Model	Serial No.	Last Calibrate
1.	EMC Test System	EMC Partner	Transient-1000	TR1000-341	Aug. 25, 1999
	Domark: All aguinme	ent unon which need	to calibrated are wit	h calibration ner	iod of 1.5 year.

11.2 Test setup



11.3 Test Level

Item	Environment	Unit	Test Specification	Performance Criteria
Ac Input a	and AC Output Power Por	ts		
30	Voltage Dips	30	% Reduction	В
		10	ms	
		60	% reduction	C
		100	ms	
		>95%	Reduction	C
	Voltage Interruption	5000	ms	

EMC Test Report ------28/50

11.4 Test Procedure

The EUT and its load are placed on a wooden table which is 0.8 meter above a metal ground plane which dimension is 1 meter x 1 meter, the thickness is 0.65mm. It projected beyond the EUT by at least 0.1 meter on all sides. The power cord shall be used the shortest power cord as specified by the manufacturer.

For Voltage Dips / Interruption Test:

The EUT is connected to the power mains through a coupling device that directly couples to the Voltage Dips and Interruption Generator.

The EUT shall be tested for 30% voltage dips of supplied voltage and duration time is 10ms, for 60% voltage dips of supplied voltage and duration time is 100ms with a sequence of three voltage dips with intervals of 10 seconds, and for 95% voltage interruption of supplied voltage and the duration time is 5000ms with a sequence of three voltage interruptions with intervals of 10 seconds.

Voltage phase shifting are shall occur at 0°, 45°, 90°, 135, 180°, 225°, 270°, 315° of the voltage.

11.5 Test Specification

According to EN 61000-4-11/1995

11.6 Test Result

The Measurement of the Voltage Dips and Interruption was investigated and the test result was shown on the appendix A. The acceptance criterion was met and the EUT has passed the test.

Report Number: RE-A06-CE-158 Best Laboratory Co., Ltd. Test Date: Jan 18, 2001, Tel: 886-2-2646-2899 Panel PC Fax: 886-2-2646-2870 EMC Test Report -----29/50

12 Modification List for EMC Complying Test

The modification list for Model: AMB-2051 is as below:

- The cable that from J12 of main board to CN13 of back panel (No. TB-908C) was covered by conductive shielding gasket (TennRich International Corp.)
- The hole in the rear part of case was sealed by double side conductive copper sheet (TennRich International Corp.)
- 3. The outlet of USB connector and RJ-45 connector were covered by double side conductive copper sheet (TennRich International Corp.). then, soldering three finger of copper finger strip on the copper sheet on the top side of connectors, which is used to enhance grounding.
- 4. TC $35 = 10\mu f$, 50V
- Add a SMD capacitor, 4.7µf, at the pin 25, pin 27 and pin 26, pin 28 of J18 of connector board.
- Add two capacitors (10μf, 25V) at the pin 27 and pin 30 of J18 of connector board.
- The cable that connected with CN1 of LCD signal pad was winded with one ferrite core (King Core Electronics Inc., A5 FS 38 x 0.35 x 10)
- The cable that connected with CN10 of LCD signal pad was winded with one ferrite core (King Core Electronics Inc., A5 FPC 25 x 2.8 x 12)
- The cable that connected with CN1, CN3 and CN6 of connector pad was winded two ferrite cores (King Core Electronics Inc., A5 FPC 25 x 2.8 x 12)

*** Remark:

Please refers to the Appendix C: The Detail Photograph of EUT

Panel PC

EMC Test Report ------30/50

13 Appendix

Appendix A: Summary of Test Result

Appendix B: The test photograph of EUT

Appendix C: The Detail Photograph of EUT

EMC Test Report -----31/50

Appendix A: Summary of Test Result

The test result in the emission and immunity were performed according to the requirement of measurement standard and procedures. Best Laboratory is assumed full responsibility for the accuracy and completeness of these measurements. The Test data of the emissions and immunity are listed as the appendix data.

All these tests are were carried out with the EUT in normal operation, which was defined as:

***** EMC Test Result: The EUT has been pass the all measurements. *****

The uncertainty is calculated in accordance with NAMAS NIS 81, the total uncertainty for this test is as follows:

⇒ Emission Test

* Uncertainty in the Conducted Emission Test:

<±2.0dB

* Uncertainty in the Field Strength measurement:

<±4.0dB

EMC Test Report ------32/50

Conducted Emission Test

Date Measurement Performed: Jan 17, 2001
EUT: Panel PC
Testing Mode: 1024 x 768
Temperature: 22°C
Humidity: 74%RH

Line 1:

Frequency (KHz)	Corrected Amplitude (dBµV/m)			Limit (dBµV/m)		Margin
	Peak	QP	Avg.	QP	Avg.	dB
178.050	52.33	*.**	*.**	79.00	66.00	-13.67
212.050	46.62	*.**	*,**	79.00	66.00	-19.38
283.450	41.39	* **	* **	79.00	66.00	-24.61
388.850	38.64	*.**	* **	79.00	66.00	-27.36
603.900	36.90	*.**	*,**	73.00	60.00	-23.10
818.100	38.25	*.**	*.**	73.00	60.00	-21.75

			101			
				US PER SE		

Line 2:

Frequency (KHz)		cted Amplitu (dBµV/m)	ide	Limit (dBµV/m)		Margin
	Peak	QP	Avg.	QP	Avg.	dB
176.350	52.17	* * **	*.**	79.00	66.00	-13.83
213.750	48.57	*.**	*.**	79.00	66.00	-17.43
247.750	42.86	*.**	*.**	79.00	66.00	-23.14
286.850	40.67	*.**	*.**	79.00	66.00	-25.33
320.000	39.84	*.**	* **	79.00	66.00	-26.16
389.700	39.80	*.**	*,**	79.00	66.00	-26.20

		-				
444 D	1 771 1		Et-d			- +++

*** Remark: The above corrected amplitudes are all under the average limit. ***

EMC Test Report --



Date Measurement Performed: Jan 17, 2001

EUT Testing Mode : Panel PC : 1024 x 768 : Vertical

Polarity Temperature Humidity

: 27°C : 73%RH

Frequency (MHz)	Reading Amplitude (dBµV/m)	Table Degree (°)	Antenna Height (Meter)	Correction Factor (dB/m)	Corrected Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
162.488	20.39	196	1.00	13.28	33.67	40.00	-6.33
168.976	21.87	155	1.00	12.81	34.69	40.00	-5.31
175.480	28.89	50	1.00	12.15	35.43	40.00	4.57
181.952	26.32	70	1.00	11.48	37.80	40.00	-2.20
188.477	20.47	250	1.00	10.86	31.33	40.00	-8.67
194.974	24.90	184	1.00	10.43	35.33	40.00	-4.67
201.437	19.27	226	1.00	10.15	29.42	40.00	-10.58
207.966	29.95	173	1.00	10.14	39.56	40.00	-0.44
214380	23.59	228	2.00	10.34	33.93	40.00	-6.07
240.470	29.20	186	1.00	11.80	40.99	47.00	-6.01
272.950	23.98	165	1.00	12.76	36.74	47.00	-10.26

Remark:

- The "Correction Factor" contains antenna factor, cable loss.
 The formula of "Corrected Amplitude" is as follow" Reading Amplitude + Correction Factor = Corrected Amplitude.

EMC Test Report -----34/50

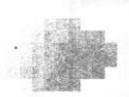
Field Strength Measurement

Date Measurement Performed: Jan 17, 2001
EUT: Panel PC
Testing Mode: 1024 x 768
Polarity: Horizontal
Temperature: 27°C
Humidity: 73%RH

Amplitude (dBμV/m)	Degree (°)	Height (Meter)	Correction Factor (dB/m)	Corrected Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
12.33	360	2.00	11.19	23.52	40.00	-16.48
20.44	83	4.00	9.68	30.12	40.00	-9.88
17.66	153	4.00	12.06	29.72	40.00	-10.28
7.90	326	4.00	13.29	21.19	40.00	-18.8
5.38	305	4.00	10.45	15.83	40.00	-24.17
3.66	331	1.00	24.09	27.76	47.00	-19.24
-1.70	191	2.00	25.96	24.26	47.00	-22.74
	12.33 20.44 17.66 7.90 5.38 3.66	12.33 360 20.44 83 17.66 153 7.90 326 5.38 305 3.66 331	12.33 360 2.00 20.44 83 4.00 17.66 153 4.00 7.90 326 4.00 5.38 305 4.00 3.66 331 1.00	12.33 360 2.00 11.19 20.44 83 4.00 9.68 17.66 153 4.00 12.06 7.90 326 4.00 13.29 5.38 305 4.00 10.45 3.66 331 1.00 24.09	12.33 360 2.00 11.19 23.52 20.44 83 4.00 9.68 30.12 17.66 153 4.00 12.06 29.72 7.90 326 4.00 13.29 21.19 5.38 305 4.00 10.45 15.83 3.66 331 1.00 24.09 27.76	12.33 360 2.00 11.19 23.52 40.00 20.44 83 4.00 9.68 30.12 40.00 17.66 153 4.00 12.06 29.72 40.00 7.90 326 4.00 13.29 21.19 40.00 5.38 305 4.00 10.45 15.83 40.00 3.66 331 1.00 24.09 27.76 47.00

Remark:

- 1. The "Correction Factor" contains antenna factor, cable loss.
- The formula of "Corrected Amplitude " is as follow"
 Reading Amplitude + Correction Factor = Corrected Amplitude.



EMC Test Report -----35/50

Power Harmonic / Fluctuation Test

Test Frequency	: 50Hz		Test Voltage	: 230VAC
Test Time	: 10 min.		Tshort	: 5.0 min
4 5				
EUT	Data	Limit	Result	Test Enable
Pst	0.001	1.00	Pass	True
Plt	0.001	0.65	Pass	True
dc %	0.00	3.00	Pass	True
dmax %	0.00	4.00	Pass	True
d(t) sec	0.00	0.20	Pass	True
Power Source Da	ta			
Source Pst max	0.022	0.400	Pass	True
% THD	0.02	3.00	Pass	True

EMC Test Report -

Electrostatic Discharge Test

Item Amount of	Discharge	Voltage	Required Criteria	Complied to Criteria	Results
Air Discharge	10	+8KV	В	В	Pass
	10	-8KV	В	В	Pass
Contact Discharge	10	+4KV	В	В	Pass
	10	-4KV	В	В	Pass
Indirect Discharge	10	+4KV	В	В	Pass
(HCP)	10	-4KV	В	В	Pass
Indirect Discharge	10	+4KV	В	В	Pass
(VCP Front)	10	-4KV	В	В	Pass
Indirect Discharge	10	+4KV	В	В	Pass
(VCP left)	10	-4KV	В	В	Pass
Indirect Discharge	10	+4KV	В	В	Pass
(VCP Rear)	10	-4KV	В	В	Pass
Indirect Discharge	10	+4KV	В	В	Pass
(VCP Right)	10	-4KV	В	В	Pass

Remark:

() Criteria A: Operation as intended during and after the measurement
 (X) Criteria B: Operation as Intended after the test
 () Criteria C: Malfunction during and after, need manual reset
 () Criteria D: The sample is damaged

EMC Test Report -

Radiated Susceptibility

Frequency (MHz)	Position (Angle)	Polarity (H or V)	Voltage (KV)	Required Criteria	Complied Criteria	Result
80 ~ 1000	0	Н	10	A	A	Pass
80 ~ 1000	0	V	10	A	A	Pass
80 ~ 1000	90	Н	10	A	A	Pass
80~1000	90	V	10	A	A	Pass
80~1000	180	Н	10	A	A	Pass
80 ~ 1000	180	v	10	A	A	Pass
80 ~ 1000	270	Н	10	A	A	Pass
80 ~ 1000	270	V	10	A	A	Pass

Remark:

(X) Criteria A: Operation as intended during and after the measurement
() Criteria B: Operation as Intended after the test
() Criteria C: Malfunction during and after, need manual reset
() Criteria D: The sample is damaged

Panel PC

Fax: 886-2-2646-2870

Electrical Fast Transient / Burst

	Inject Line	Polarity	Voltage (KV)	Inject Time (Second)	Inject Method	Required Criteria	Complied Criteria	Result
9	L	±	2KV	60	Direct	В	В	Pass
	N	±	2KV	60	Direct	В	В	Pass
	PE	±	2KV	60	Direct	В	В	Pass
	L+N	±	2KV	60	Direct	В	В	Pass
	L+PE	±	2KV	60	Direct	В	В	Pass
	N+PE	±	2KV	60	Direct	В	В	Pass
	L+N+PE	±	2KV	60	Direct	В	В	Pass
	Clamp	±	1KV	60	Couple	В	В	Pass

Remark:

() Criteria A: Operation as intended during and after the measurement
(X) Criteria B: Operation as Intended after the test
() Criteria C: Malfunction during and after, need manual reset
() Criteria D: The sample is damaged

Panel PC

Fax: 886-2-2646-2870

EMC Test Report

Surge Test

Inject Line	Polarity	Angle	Voltage (KV)	Inject Time (Second)		Required Criteria	Complied Criteria	Result
L+N	±	0	2KV	60	Direct	В	В	Pass
L+N	±	90	2KV	60	Direct	В	В	Pass
L+N	±	180	2KV	60	Direct	В	В	Pass
L+N	±	270	2KV	60	Direct	В	В	Pass
L+PE	±	0	4KV	60	Direct	В	В	Pass
L+PE	±	90	4KV	60	Direct	В	В	Pass
L+PE	±	180	4KV	60	Direct	В	В	Pass
L+PE	±	270	4KV	60	Direct	В	В	Pass
N+PE	±	0	4KV	60	Direct	В	В	Pass
N+PE	± .	90	4KV	60	Direct	В	В	Pass
N+PE		180	4KV	60	Direct	В	В	Pass
N+PE	±	270	4KV	60	Direct	В	В	Pass_

Remark:

() Criteria A: Operation as intended during and after the measurement
 (X) Criteria B: Operation as Intended after the test
 () Criteria C: Malfunction during and after, need manual reset
 () Criteria D: The sample is damaged

EMC Test Report ----

Conducted Susceptibility

Inject Line	Field Strength V	Inject Method	Required Criteria	Complied Criteria	Result
AC Line	10V	CDN	A	A	Pass

Remark:

(X) Criteria A: Operation as intended during and after the measurement
() Criteria B: Operation as Intended after the test
() Criteria C: Malfunction during and after, need manual reset
() Criteria D: The sample is damaged

EMC Test Report --

Power Frequency Magnetic Field Test

Polarization	Frequency (Hz)	Magnetic Strength (A/M)	Required Criteria	Complied Criteria	Result
X Orientation	50	30	Α	A	Pass
Y Orientation	50	30	A	A	Pass
Z Orientation	50	30	A	A	Pass

Remark:

(X) Criteria A: Operation as intended during and after the measurement

Criteria B: Operation as Intended after the test
 Criteria C: Malfunction during and after, need manual reset
 Criteria D: The sample is damaged

42/50 EMC Test Report -----

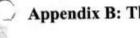
Voltage Dips and Interruption Test

Voltage Dips and Interruption Reduction (%)	Angle (Degree)	Test Duration (ms)	Required Criteria	Complied Criteria	Result
30	45	10	В	В	Pass
30	90	10	В	В	Pass
30	135	10	В	В	Pass
30	180	10	В	В	Pass
30	225	10	В	В	Pass
30	270	10	В	В	Pass
30	315	10	В	В	Pass
60	45	100	C	C	Pass
60	90	100	C	C	Pass
60	135	100	C	C	Pass
60	180	100	C	C	Pass
60 .	225	100	C	C	Pass
60	270	100	C	C	Pass
60	315	100	C	C	Pass
>95	45	5000	C	C	Pass
>95	90	5000	C	C	Pass
>95	135	5000	C	C	Pass
>95	180	5000	C	C	Pass
>95	225	5000	C	C	Pass
>95	270	5000	C	C	Pass
>95	315	5000	C	C	Pass

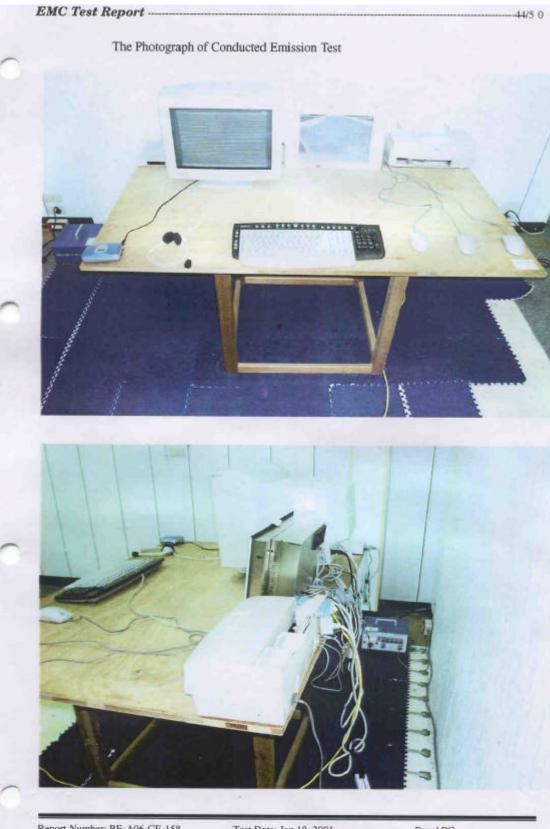
- () Criteria A: Operation as intended during and after the measurement
- (X) Criteria B: Operation as Intended after the test (Test Mode: 30%)
 (X) Criteria C: Malfunction during and after, need manual reset(Test Mode: 60%, >95%)
 () Criteria D: The sample is damaged



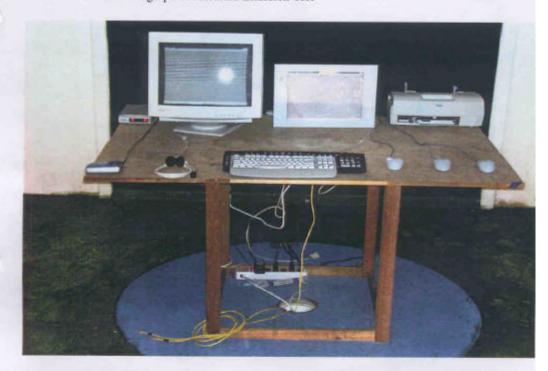




Appendix B: The Test Photograph of EUT



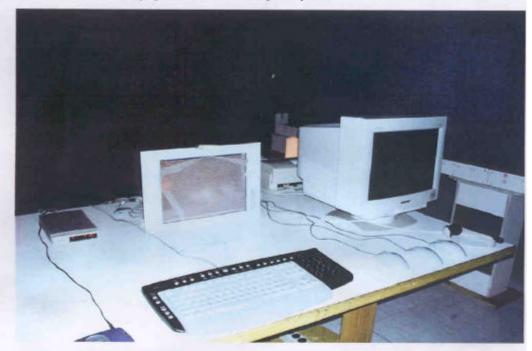
The Photograph of Radiated Emission Test

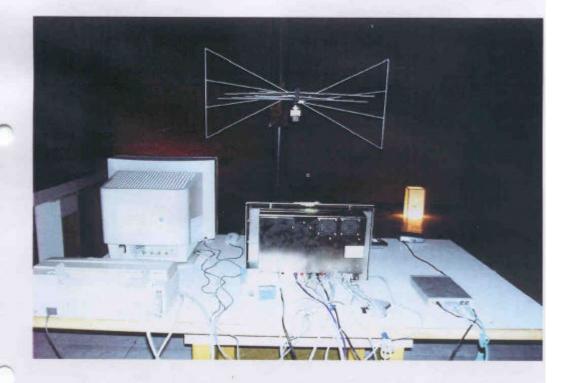




Report Number: RE-A06-CE-158 Best Laboratory Co., Ltd. Test Date: Jan 18, 2001, Tel: 886-2-2646-2899

The Photograph of Radiation Susceptibility Test

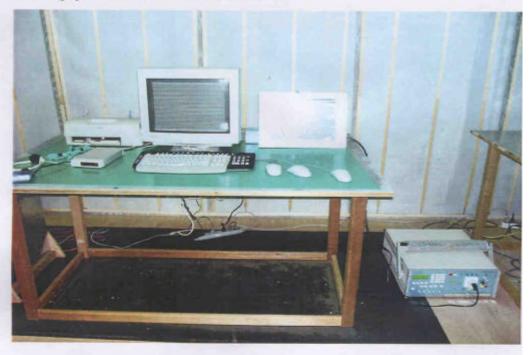




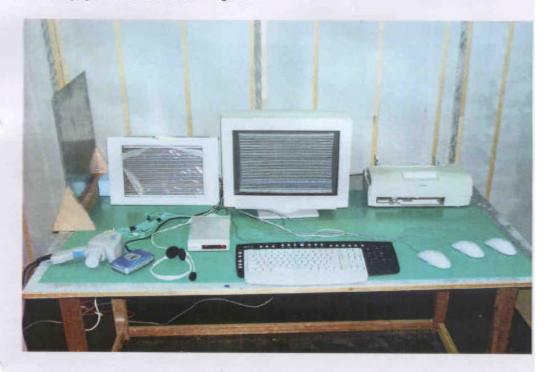
Report Number: RE-A06-CE-158 Best Laboratory Co., Ltd.

Test Date: Jan 18, 2001, Tel: 886-2-2646-2899

The Photograph of Electrical Fast Transient/Burst Test

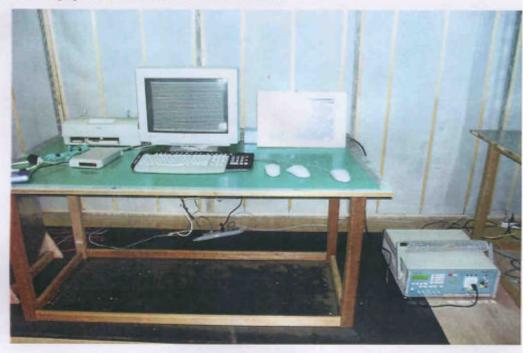


The Photograph of Electrostatic Discharge Test



Report Number: RE-A06-CE-158 Best Laboratory Co., Ltd. Test Date: Jan 18, 2001, Tel: 886-2-2646-2899

The Photograph of Electrical Fast Transient/Burst Test

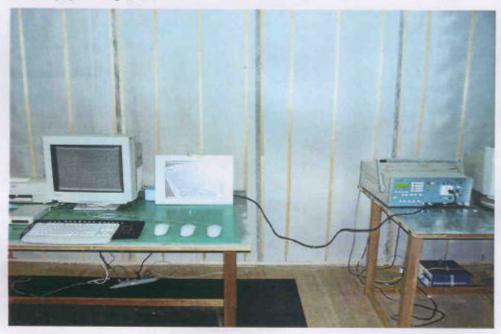


The Photograph of Electrostatic Discharge Test

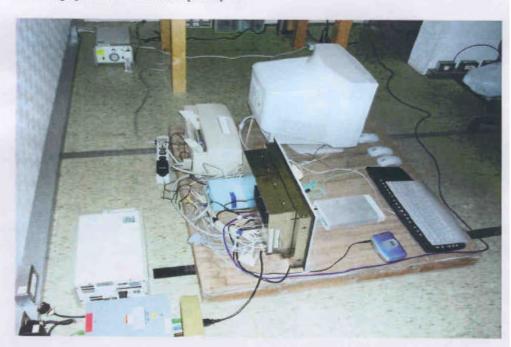


Report Number: RE-A06-CE-158 Best Laboratory Co., Ltd. Test Date: Jan 18, 2001, Tel: 886-2-2646-2899

The Photograph of Surge Test



The Photograph of Conducted Susceptibility Test



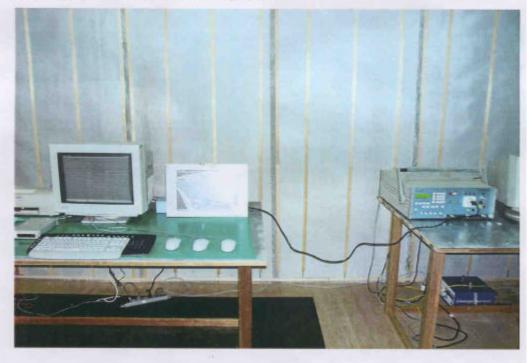
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The Photograph of Power Frequency Magnetic Field Test



The Photograph of Voltage Dips and Interruption Test



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EMC Test Report -----

Appendix C: The Detail Photograph of EUT

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