



EMC COMPLIANCE TEST REPORT

FOR

Industrial Panel PC

MODEL: AMB-2427HTT

REPORT NUMBER: 02E9963

ISSUE DATE: February 26, 2002

Prepared for

**AAEON Technology Inc.
5F, No. 135, Lane 235, Pao Chiao Rd.,
Hsin-Tien City, Taipei,
Taiwan, R. O. C.**

Prepared by

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LAB CODE: SL2-IN-E-0005



**FCC, VCCI, CISPR, CE
UL, CSA, TÜV, VDE**

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EC-Declaration of Conformity

For the following equipment:

Industrial Panel PC

(Product Name)

AMB-2427HTT

(Model Designation / Trade name)

AAEON Technology Inc.

(Manufacturer Name)

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

(Manufacturer Address)

is herewith confirmed to comply with the requirements set out in the Council Directive on the Approximation of the Laws of the Member States relating to Electromagnetic Compatibility Directive (89/336/EEC, Amended by 92/31/EEC, 93/68/EEC & 98/13/EC), For the evaluation regarding the Electromagnetic Compatibility (89/336/EEC, Amended by 92/31/EEC, 93/68/EEC & 98/13/EC), the following standards are applied:

EN 55022: 1997

EN55024: 1998

IEC 61000-4-2: 1995 + A2: 2000; IEC 61000-4-3: 1995; IEC 61000-4-4: 1995;

IEC 61000-4-5: 1995; IEC 61000-4-6: 1996

The following manufacturer / importer or authorized representative established within the EUT is responsible for this declaration:

(Company Name)

(Company Address)

Person responsible for making this declaration:

(Name, Surname)

(Position / Title)

(Place)

(Date)

(Legal Signature)

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VERIFICATION OF COMPLIANCE

Equipment Under Test: Industrial Panel PC
Trade Name: N/A
Model Number: AMB-2427HTT
Agency Series: N/A
Applicant: **AAEON Technology Inc.**
 5F, No. 135, Lane 235, Pao Chiao Rd., Hsin-Tien City,
 Taipei, Taiwan, R. O. C.

Manufacturer: **AAEON Technology Inc.**
 5F, No. 135, Lane 235, Pao Chiao Rd., Hsin-Tien City,
 Taipei, Taiwan, R. O. C.

Type of Test: EMC Directive 89/336/EEC for CE Marking
Technical Standards: EN 55022: 1997
 EN 55024: 1998 (IEC 61000-4-2: 1995 + A2: 2000, IEC 61000-4-3: 1995,
 IEC 61000-4-4: 1995, IEC 61000-4-5: 1995,
 IEC 61000-4-6: 1996)

File Number: 02E9963
Date of test: February 21, 2002 ~ February 25, 2002
Deviation: N/A
Condition of Test Sample: Normal

The above equipment was tested by Compliance Engineering Services, Inc. for compliance with the requirements set forth in EMC Directive 89/336/EEC and the Technical Standards mentioned above. This said equipment in the configuration described in this report shows the maximum emission levels emanating from equipment and the level of the immunity endurance of the equipment are within the compliance requirements.

The test results of this report relate only to the tested sample identified in this report.

Approved by Authorized Signatory: _____

Rick Yeo
RICK YEO / EMC MANAGER

GENERAL INFORMATION

Applicant: **AAEON Technology Inc.**
5F, No. 135, Lane 235, Pao Chiao Rd., Hsin-Tien City,
Taipei, Taiwan, R. O. C.

Contact Person: Milo Wang / Q. E. Dept. Engineer

Manufacturer: **AAEON Technology Inc.**
5F, No. 135, Lane 235, Pao Chiao Rd., Hsin-Tien City,
Taipei, Taiwan, R. O. C.

File Number: 02E9963

Date of Test: February 21, 2002 ~ February 25, 2002

Equipment Under Test: Industrial Panel PC

Model Number: AMB-2427HTT

Agency Series: N/A

Type of Test: EMC Directive 89/336/EEC for CE Marking

Technical Standards: EN 55022: 1997
EN 55024: 1998 (IEC 61000-4-2: 1995 + A2: 2000, IEC 61000-4-3: 1995,
IEC 61000-4-4: 1995, IEC 61000-4-5: 1995,
IEC 61000-4-6: 1996)

**Frequency Range
(EN 55022):** 150kHz to 30MHz for Line Conducted Test
30MHz to 1000MHz for Radiated Emission Test

Test Site: **Compliance Engineering Services, Inc.**
No. 199, Chung Sheng Road
Hsin Tien City, Taipei
Taiwan, R. O. C.

SYSTEM DESCRIPTION

EUT Test Procedure:

1. Windows 98 Boots System.
2. Run Winemc.Exe To Activate All Peripherals And Display “H” Pattern On Monitor Screen.
3. Run ReadWrite.Exe to Link EUT and Notebook PC.
Data Through the EUT and Transmit Between Server Notebook and EUT Via RJ45 Cable.

PRODUCT INFORMATION

Housing Type:	METAL
EUT Power Rating:	DC 24V to DC Power Supply
AC power during Test:	230VAC / 50Hz From DC Power Supply
DC Power Supply Manufacturer:	SKYNET
DC Power Supply Model Number:	SNP-9169
AC Power Cord Type:	Un-shielded, 1.8m (Detachable)
DC Cable Type:	Un-Shielded, 0.5m (Detachable, with a core)
EUT I/O Cable:	Shielded, 0.25m (Detachable)
OSC/Clock Frequencies :	Y1= 14.318MHz

I/O Port of EUT:

I/O PORT TYPES	Q' TY	TESTED WITH
1). PS/2 Port	3	3
2). RJ45 Port	1	1
3). DB25 (Parallel)	1	1
4). DB9 Port (Serial)	1	1
5). Ext Display Port	1	1
6). DB15 (VGA)	1	1

Note: N/A

SUPPORT EQUIPMENT

Host Computer:

Equipment	Model#	Serial#	Trade Name
CPU	CELERON-500	N/A	INTEL
Main Board	CI7ZS-1.00	N/A	N/A
LCD Panel (12")	LTM12C289	N/A	TOSHIBA
BackPlane	HPCI75	N/A	N/A
HDD	Fireball lct15 97	N/A	QUANTUM
CD-ROM	CD-2800E	N/A	NEC
LCD Transfer Board	FP24-01	N/A	N/A
LCD Board	TB-910E	N/A	N/A
VGA Board	DVL68-B1	N/A	N/A
RAM	SDRAM 64M PC-133	N/A	NANYA
DC POWER SUPPLY	MPD-425C	N/A	Magic Power Technology Co., Lt.d.

External Peripheral Devices:

No	Equipment	Model #	Serial #	FCC ID	Trade Name	Data Cable	Power Cord
1.	PS/2 Keyboard	6311-TW4C/6	N/A	DoC	ACER	Shielded, 1.7m with a core	N/A
2.	Mouse	M-M35	LZA74982707	DZL210365	LOGITECH	Shielded, 1.9m with a core	N/A
3.	PS/2 Mouse	MS-S34	LZC01169895	DZL211029	LOGITECH	Shielded, 1.8m with a core	N/A
4.	PS/2 Keyboard	KB-8923	3373140	E8HKB-5923	IBM	Shielded, 1.8m with a core	N/A
5.	Printer	2225C	2550540697	BS46XU2225C	HP	Shielded, 1.8 m	Unshielded, 1.8m
6.	DC Power Supply	SNP-9169	N/A	N/A	SKYNET	Unshielded, 0.5 m x 2 with a core	Unshielded, 1.8m
7.	Monitor	PH19HS	N/A	DoC	SAMSUNG	Shielded, 1.8m	Unshielded, 1.8m
8.	Server Notebook	PS600L-0429E	N/A	N/A	Toshiba	Unshielded, 20m (RJ45)	Unshielded, 1.8m

Note: All the above equipment/cables were placed in worse case positions to maximize emission signals.

Grounding: Grounding was in accordance with the manufacturer's requirements and conditions for the intended use.

TEST EQUIPMENT LIST (EMISSION)

Instrumentation: The following list contains equipment used at Compliance Engineering Services, Inc.. for testing. The equipment conforms to the CISPR 16-1 / ANSI C63.2-1988 Specifications for Electromagnetic Interference and Field Strength Instrumentation from 9kHz to 1.0 / 2.0 GHz.

Equipment used during the tests:

Open Area Test Site: #D

Equipment	Manuf.	Model No.	Serial No.	Cal Date	Due Date
EMI TEST DISPLAY	R&S	DSAI-D 804.8932.52	827832/001	10/29/01	10/28/02
EMI TEST RF UNIT	R&S	ESBI-RF/1005.4300.52	827832/003	10/29/01	10/28/02
AMPLIFIER	HP	8447DB	1644A02328	05/07/01	05/06/02
ANTENNA	SCHWARZBECK	VULB 9160	3104	05/17/01	05/16/02
CABLE	TIME MICROWAVE	LMR-400	N-TYPE02	07/09/01	07/08/02

Conducted Area Test Site: Conducted Room

Equipment	Manuf.	Model No.	Serial No.	Cal Date	Due Date
TEST RECEIVER	R&S	ESHS20	840455/006	03/15/01	03/14/02
LISN	SOLAR	8012-50-R-24-BNC	8305114	07/23/01	07/22/02
LISN(EUT)	EMCO	3825/2	1435	01/16/02	01/15/03

The calibrations of the measuring instruments, including any accessories that may effect such calibration, are checked frequently to assure their accuracy. Adjustments are made and correction factors applied in accordance with instructions contained in the manual for the measuring instrument.

TEST EQUIPMENT LIST

For Power Harmonic & Voltage Fluctuation/Flicker Measurement:

Manufacturer/Type	Model No.	Serial No.	Last Cal.	Cal. Due
HP / Harmonic & Flicker Tester	6842A	3531A-000142	06/15/2001	06/14/2002

For ESD test:

Manufacturer/Type	Model No.	Serial No.	Last Cal.	Cal. Due
HAEFELY TRENCH / ESD Generator	PESD 1600	H710203	09/01/2001	08/31/2002

For Radiated Electromagnetic Field immunity Measurement:

Manufacturer/Type	Model No.	Serial No.	Last Cal.	Cal. Due
R&S / Signal Generator	SMY 02	DE13751	01/10/2002	01/09/2003
IFI / "E" Field sensor/ Light Modulator Transmitter	EFS-5	713-0695	06/29/2001	06/28/2002
IFI / Combination Amplifier	SMX100	2067-1196	06/28/2001	06/27/2002
IFI / Leveling Pre-Amplifier	LPA-5B	714-0695	05/01/2001	04/30/2002
EMCO / Biconilog Antenna	3142	9609-1087	No Calibration Required	No Calibration Required

For Fast Transients/Burst test:

Manufacturer/Type	Model No.	Serial No.	Last Cal.	Cal. Due
KeyTek Instruments / EFT Generator	E421	9502326	11/01/2001	10/31/2002
KeyTek Instruments / Capacitive Clamp	CCL-4	9503290	No Calibration Required	No Calibration Required
HAEFELY TRENCH / Fast Transients/Burst Generator	PEFT- JUNIOR	583 333-117	08/21/2001	08/20/2002
HAEFELY TRENCH / Clamp	093 506.1	080 421.13	N/A	N/A

For Surge Immunity test:

Manufacturer/Type	Model No.	Serial No.	Last Cal.	Cal. Due
Surger Generator KeyTek Instruments	E501	9502324	11/01/2001	10/31/2002
Telecom Lines Coupler DECOUPLER KeyTek Instruments	CM-TELCD	0104399	05/01/2001	04/30/2002
I/O Signal Line DECOUPLER KeyTek Instruments	CM-I/OCD	0103234	05/01/2001	04/30/2002
HAEFELY TRENCH / Surge Tester	PSUGER 4010	583 334-71	09/01/2001	08/31/2002

For CS test:

Manufacturer/Type	Model No.	Serial No.	Last Cal.	Cal. Due
R&S / Signal Generator	SMY 02	DE13751	01/10/2002	01/09/2003
IFI / Combination Amplifier	SMX100	2067-1196	06/28/2001	06/27/2002
IFI / Leveling Pre-Amplifier	LPA-5B	714-0695	05/01/2001	04/30/2002
FISCHER / Power Line Coupling Decoupling Network	FCC-801-M3-16A	99122	10/27/2001	10/26/2002
FISCHER / Bulk Current Injection Probe	F-120-9B	54	10/30/2001	10/29/2002
Narda / High Power Attenuator	769-6	02541	10/26/2001	10/25/2002

For Power Frequency Magnetic Field test :

Manufacturer/Type	Model No.	Serial No.	Last Cal.	Cal. Due
Haefely / Magic Field Tester	MAG 100.1	081436-02	No Calibration Required	No Calibration Required
Extech Electronics / Frequency Converter	CFC-105	810390	No Calibration Required	No Calibration Required
CHY/ AC/DC Clamp Meter	932C	2K0900285	10/25/2001	10/24/2002

For Voltage Dips/Short Interruption and Voltage Variation Immunity test:

Manufacturer/Type	Model No.	Serial No.	Last Cal.	Cal. Due
Haefely / Dips/Inerruption/Variations Tester	PLINE 1610	081568-06	08/06/2001	08/05/2002
FLUKE / 79 Series Ii Multimeter	79-II	66400868	07/03/2001	07/02/2002

SECTION 1 EN 55022 (LINE CONDUCTED & RADIATED EMISSION)

MEASUREMENT PROCEDURE (PRELIMINARY LINE CONDUCTED EMISSION TEST)

- 1) The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per EN 55022 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2) Support equipment, if needed, was placed as per EN 55022.
- 3) All I/O cables were positioned to simulate typical actual usage as per EN 55022.
- 4) The EUT received DC 24V power through DC Power Supply and Line Impedance Stabilization Network (LISN) which supplied power source of 230VAC/ 50Hz and was grounded to the ground plane.
- 5) All support equipment received power from a second LISN supplying power of 110VAC/60Hz, if any.
- 6) The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7) Analyzer / Receiver scanned from 150kHz to 30MHz for emissions in each of the test modes.
- 8) During the above scans, the emissions were maximized by cable manipulation.
- 9) The following test mode were scanned during the preliminary test:

Mode:

No.	Mode of operation	Date	Data Report/ Plot No.
1	640X480	02/21/2002	9462E#(45, 53)
2	800X600	02/21/2002	9462E#(56, 59)

- 10) After the preliminary scan, we found the following test mode producing the highest emission level.

Mode: 2.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

MEASUREMENT PROCEDURE (FINAL LINE CONDUCTED EMISSION TEST)

- 1) EUT and support equipment was set up on the test bench as per step 10 of the preliminary test.
- 2) A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less -2dB to the A.V. limit in Q.P. mode, then the emission signal was re-checked using an A.V. detector.
- 3) The test data of the worst case condition(s) was reported on the Summary Data page.

Data Sample:

Freq (MHz)	Meter Reading (dBuV)	C.F. (dB)	Corrected Reading (dBuV)	Limits (dBuV)	Margin (dB)	Reading Type (P/Q/A)	Line (L1/L2)
x.xx	x.xx	x.xx	48.38	66.00	-17.62	A	L1

C.F.(Correction Factor)=Insertion Loss + Cable Loss

Corrected Reading = Metering Reading + C.F.

Margin=Corrected Reading - Limits

P=Peak Reading

L1=Hot

Q=Quasi-peak

L2=Neutral

A=Average Reading

Comments: N/A

LINE CONDUCTED EMISSION LIMIT (EN 55022)

Frequency	Maximum RF Line Voltage	
	Q.P.	AVERAGE
150kHz-500kHz	79dBuV	66dBuV
500kHz-5MHz	73dBuV	60dBuV
5MHz-30MHz	73dBuV	60dBuV

Note: The lower limit shall apply at the transition frequency.

MEASUREMENT PROCEDURE (PRELIMINARY RADIATED EMISSION TEST)

- 1) The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden turntable with a height of 0.8 meters is used which is placed on the ground plane as per EN 55022 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2) Support equipment, if needed, was placed as per EN 55022.
- 3) All I/O cables were positioned to simulate typical actual usage as per EN 55022.
- 4) The EUT received DC 24V power source from DC Power Supply (AC 230V/50Hz) to the outlet socket under the turntable. All support equipment received 110VAC/60Hz power from another socket under the turntable, if any.
- 5) The antenna was placed at 10 meter away from the EUT as stated in EN 55022. The antenna connected to the analyzer via a cable and at times a pre-amplifier would be used.
- 6) The Analyzer / Receiver quickly scanned from 30MHz to 1000MHz. The EUT test program was started. Emissions were scanned and measured rotating the EUT to 360 degrees and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.
- 7) The following test mode were scanned during the preliminary test:

Mode:

No.	Mode of operation	Date	Data Report/ Plot No.
1	640X480	02/21/2002	9462D#(14, 15)
2	800X600	02/21/2002	9462D#(12, 13)

- 8) After the preliminary scan, we found the following test mode producing the highest emission level.

Mode: 2.

Then, the EUT and cable configuration, antenna position, polarization and turntable position of the above highest emission level were recorded for final testing.

MEASUREMENT PROCEDURE (FINAL RADIATED EMISSION TEST)

- 1) EUT and support equipment were set up on the turntable as per step 8 of the preliminary test.
- 2) The Analyzer / Receiver scanned from 30MHz to 1000MHz. Emissions were scanned and measured rotating the EUT to 360 degrees, varying cable placement and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.
- 3) Recorded at least the six highest emissions. Emission frequency, amplitude, antenna position, polarization and turntable position were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit and only Peak reading is presented. If EUT emission level was less-2dB to the limit, then the emission signal was re-checked using a Q.P. detector.
- 4) The test data of the worst case condition(s) was reported on the Summary Data page.

Data Sample:

Freq (MHz)	Meter Reading (dBUV)	C.F. (dB/m)	Corrected Reading (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Reading Type P/Q/A	Pol. H/V
x.xx	x.xx	x.xx	40.82	47.00	-6.18	P	V

C.F.(Correction Factor)=Antenna Factor + Cable Loss + Attenuator(6dB) - Amplifier Gain

Corrected Reading = Metering Reading + C.F.

Margin=Corrected Reading – Limits

P=Peak Reading

H=Horizontal Polarization/Antenna

Q=Quasi-peak

V=Vertical Polarization/Antenna

A=Average Reading

Comments: N/A

RADIATED EMISSION LIMIT

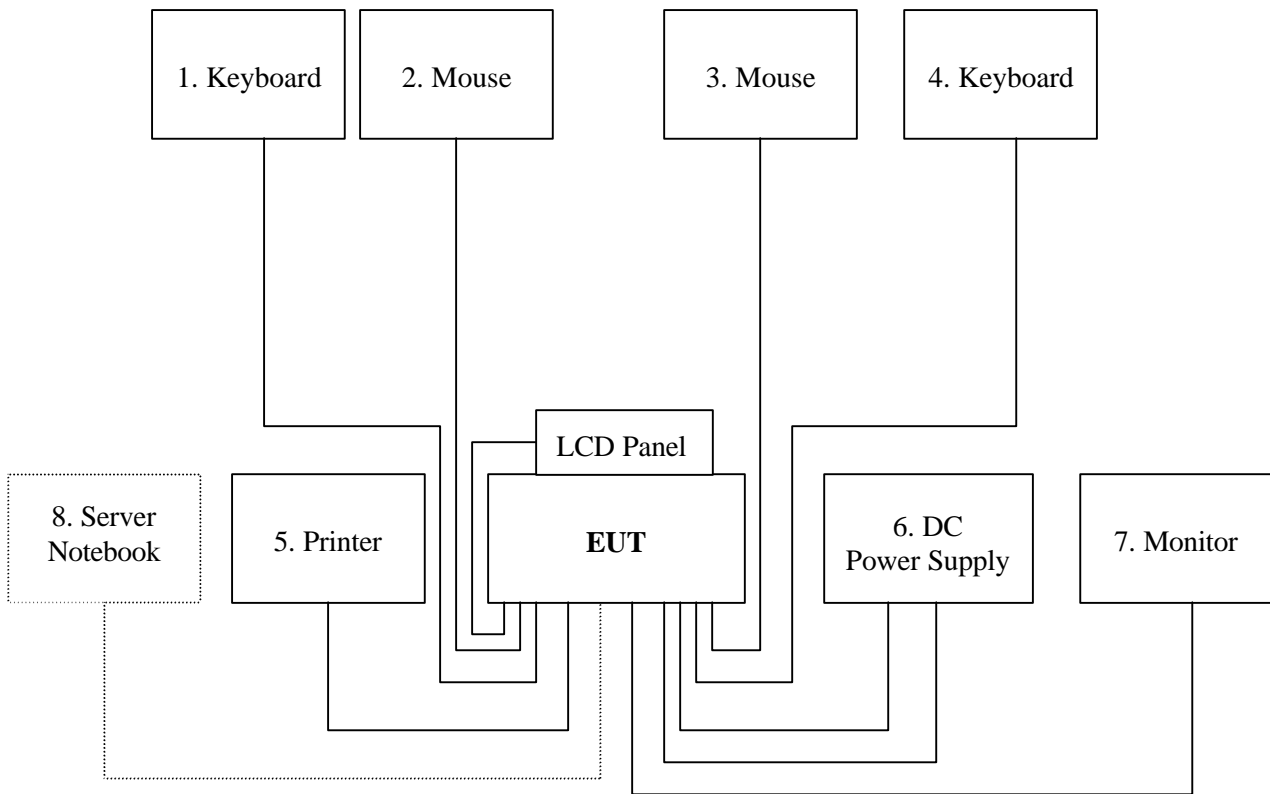
Frequency (MHz)	Distance (m)	Maximum Field Strength Limit (dBU V/m/ Q.P.)
30-230	10	40
230-1000	10	47

Note: The lower limit shall apply at the transition frequency.

BLOCK DIAGRAM OF TEST SETUP

System Diagram of Connections between EUT and Simulators

EUT: Industrial Panel PC
Model Number: AMB-2427HTT



SUMMARY DATA (LINE CONDUCTED TEST)

Model Number: AMB-2427HTT**Location:** Conducted Room**Tested by:** James Liao**Test Mode:** Mode 2**Test Results:** Passed**Temperature:** 18**Humidity:** 68%RH

(The chart below shows the highest readings taken from the final data)

Six Highest Conducted Emission Readings							
Frequency Range Investigated				150 kHz TO 30 MHz			
Freq (MHz)	Meter Reading (dBuV)	C.F. (dB)	Corrected Reading (dBuV)	Limits (dBuV)	Margin (dB)	Reading Type (P/Q/A)	Line (L1/L2)
8.235	64.51	0.32	64.83	73.00	-8.17	P	L1
8.235	51.05	0.32	51.37	60.00	-8.63	A	L1
16.573	54.23	0.41	54.64	73.00	-18.36	P	L1
24.790	67.44	0.50	67.94	73.00	-5.06	P	L1
24.790	49.56	0.50	50.06	60.00	-9.94	A	L1
8.235	63.77	0.32	64.09	73.00	-8.91	P	L2
8.235	49.41	0.32	49.73	60.00	-10.27	A	L2
16.573	57.06	0.41	57.47	73.00	-15.53	P	L2
24.790	64.50	0.50	65.00	73.00	-8.00	P	L2
24.790	46.59	0.50	47.09	60.00	-12.91	A	L2

C.F.(Correction Factor)=Insertion Loss + Cable Loss

Corrected Reading = Metering Reading + C.F.

Margin=Corrected Reading - Limits

P=Peak Reading

L1=Hot

Q=Quasi-peak

L2=Neutral

A=Average Reading

Comments: N/A

SUMMARY DATA (RADIATED EMISSION TEST)

Model Number: AMB-2427HTT**Location:** Site # D**Tested by:** James Liao**Polar:** Vertical / Horizontal- 10m**Test Mode:** Mode 2**Test Results:** Passed**Temperature:** 18**Humidity:** 68%RH

(The chart below shows the highest readings taken from the final data)

Frequency Range Investigated (30 MHz TO 1000 MHz)							
Freq (MHz)	Meter Reading (dBuV)	C.F. (dB/m)	Corrected Reading (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading Type P/Q/A	Pol. H/V
32.996	45.97	-8.74	37.24	40.00	-2.76	P	V
37.122	44.53	-8.45	36.08	40.00	-3.92	P	V
41.243	46.74	-8.18	38.56	40.00	-1.44	Q	V
57.744	45.75	-8.25	37.50	40.00	-2.51	P	V
156.789	42.79	-5.30	37.48	40.00	-2.52	P	V
206.298	46.88	-7.97	38.91	40.00	-1.09	Q	V
33.044	42.70	-8.74	33.97	40.00	-6.03	P	H

C.F.(Correction Factor)=Antenna Factor + Cable Loss - Amplifier Gain (+ Attenuator 6dB)

Corrected Reading = Metering Reading + C.F.

Margin=Corrected Reading - Limits

P=Peak Reading

H=Horizontal Polarization/Antenna

Q=Quasi-peak

V=Vertical Polarization/Antenna

A=Average Reading

Comments: N/A

Comments: N/A

SECTION 2 EN 61000-3-2 & EN 61000-3-3 (POWER HARMONICS & VOLTAGE FLUCTUATION/FLICKER)

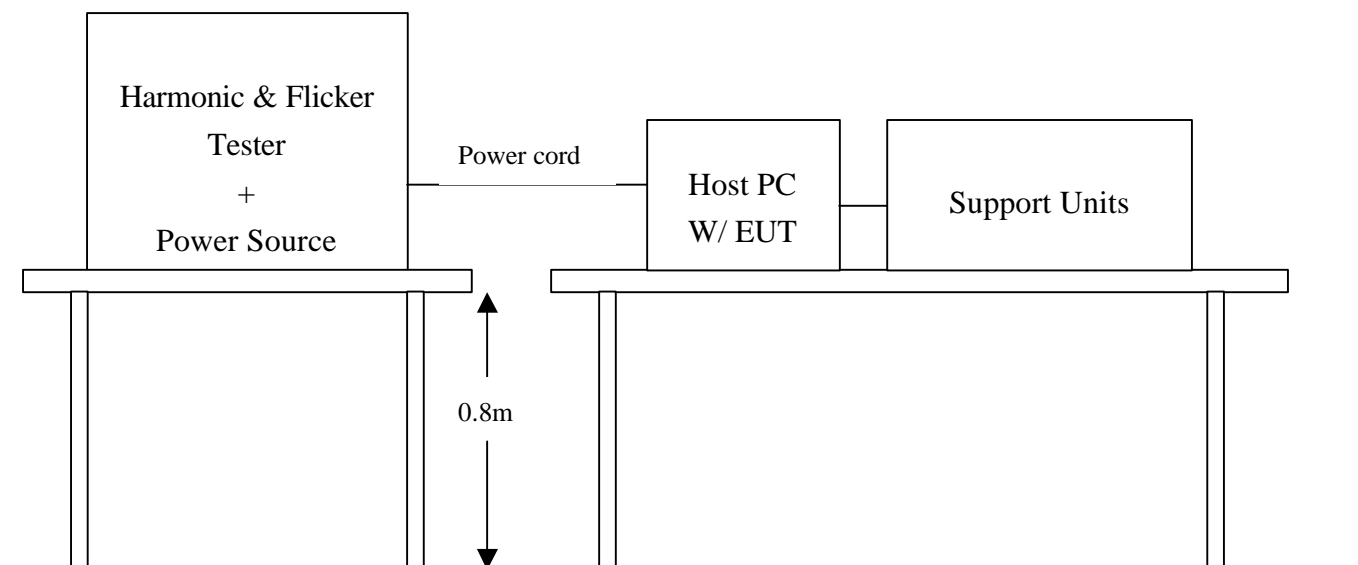
POWER HARMONICS MEASUREMENT

Mode Type	: AC Power Source
Port	: AC mains
Basic Standard	: EN 61000-3-2: 1995 + A1: 1998 + A2: 1998 + A14: 2000
Limits	: CLASS D
Tester	: N/A
Temperature	: N/A
Humidity	: N/A

VOLTAGE FLUCTUATION/FLICKER MEASUREMENT

Mode Type	: AC Power Source
Port	: AC mains
Basic Standard	: EN 61000-3-3 : 1995
Limits	: Section 5 of EN 61000-3-3
Tester	: N/A
Temperature	: N/A
Humidity	: N/A

Block Diagram of Test Setup:



Result: EUT No Any AC Power Source.

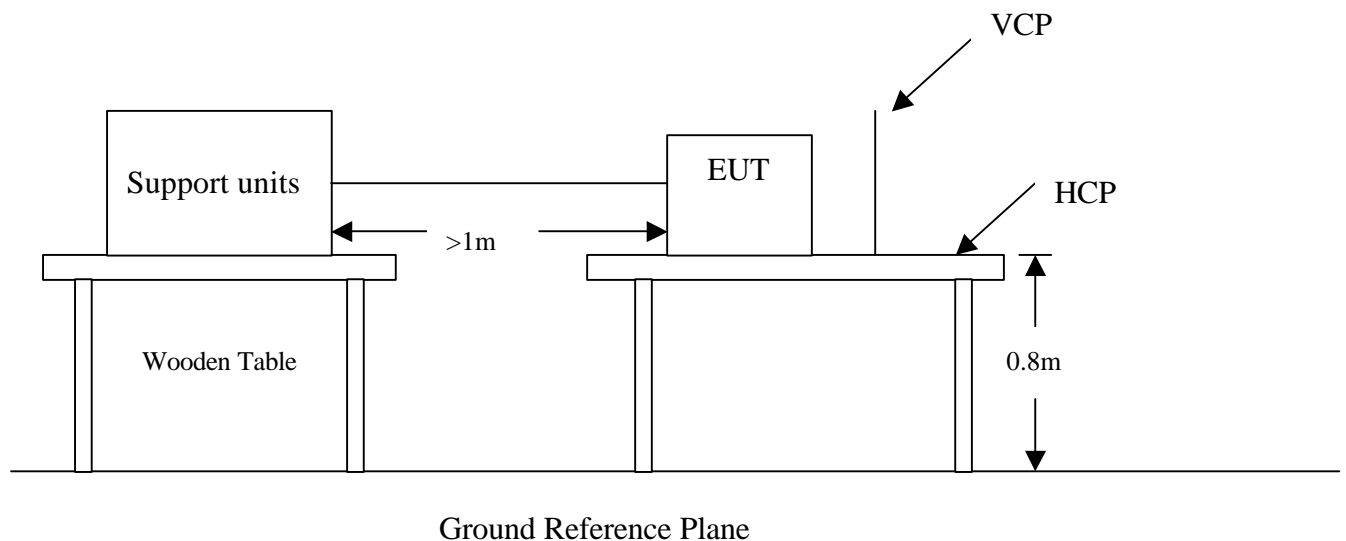
SECTION 3 IEC 61000-4-2 (ELECTROSTATIC DISCHARGE)

ELECTROSTATIC DISCHARGE (ESD) IMMUNITY TEST

Port	: Enclosure
Basic Standard	: IEC 61000-4-2
Requirements	: $\pm 8\text{kV}$ (Air Discharge) $\pm 4\text{kV}$ (Contact Discharge) $\pm 4\text{kV}$ (Indirect Discharge)
Performance Criteria	: B (Standard require)
Tested by	: Lung Tsai
Temperature/Humidity:	17 / 51%

Block Diagram of Test Setup:

(The 470 k ohm resistors are installed per standard requirement)



Test Procedure:

1. The EUT was located 0.1 m minimum from all side of the HCP.
2. The support units were located 1 m minimum away from the EUT.
3. A communication test program was loaded and executed in Windows mode.
4. PC sent transmit data to remote side via EUT.
5. As per the requirement of EN 55024; applying direct contact discharge at the sides other than front of EUT at minimum 50 discharges (25 positive and 25 negative) if applicable, can't be applied direct contact discharge side of EUT then the indirect discharge shall be applied. One of the test points shall be subjected to at least 50 indirect discharge (contact) to the front edge of horizontal coupling plane.
6. Other parts of EUT where it is not possible to perform contact discharge then selecting appropriate points of EUT for air discharge, a minimum of 10 single air discharges shall be applied.
7. The application of ESD to the contact of open connectors is not required.
8. Putting a mark on EUT to show tested points. The following test condition was followed during the tests.

The electrostatic discharges were applied as follows:

Amount of Discharges	Voltage	Coupling	Result (Pass/Fail)
Mini 25 /Point	±4kV	Contact Discharge	Pass
Mini 25 /Point	±4kV	Indirect Discharge HCP (Front)	Pass
Mini 25 /Point	±4kV	Indirect Discharge VCP (Back)	Pass
Mini 25 /Point	±4kV	Indirect Discharge VCP (Left)	Pass
Mini 25 /Point	±4kV	Indirect Discharge VCP (Right)	Pass
Mini 10 /Point	±8kV	Air Discharge	Pass

Performance & Result:

- Criteria A:** The apparatus continues to operate as intended. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. In some cases the performance level may be replaced by a permissible loss of performance.
- Criteria B:** The apparatus continues to operate as intended after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. In some cases the performance level may be replaced by a permissible loss of performance. During the test, degradation of performance is however allowed.
- Criteria C:** Temporary loss of function is allowed, provided the functions self recoverable or can be restored by the operation of controls.

PASS

FAILED

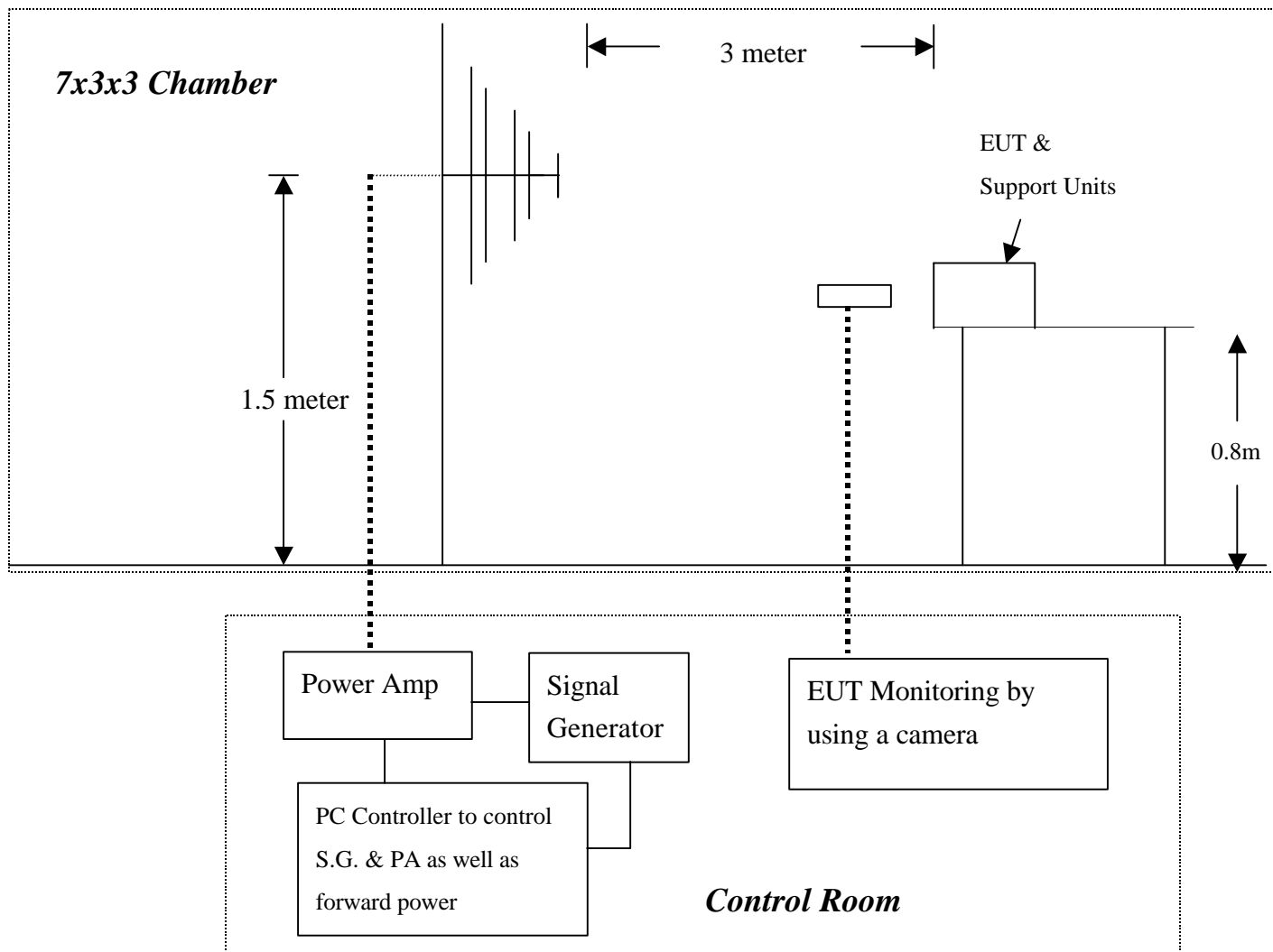
Observation: No any function degraded during the tests.

SECTION 4 IEC 61000-4-3 (RADIATED ELECTROMAGNETIC FIELD)

RADIATED ELECTROMAGNETIC FIELD IMMUNITY TEST

- Port** : Enclosure
- Basic Standard** : IEC 61000-4-3
- Requirements** : 3 V/m / with 80% AM. 1kHz Modulation
- Performance Criteria** : A (Standard require)
- Tester** : James Liao
- Temperature** : 20
- Humidity** : 70%
- Note** : The EUT not have acoustic interfaces, the annex A of EN 55024 should not be applied.

Block Diagram of Test Setup:



Test Procedure:

1. The EUT and support units were located at the edge of supporting table keep 3 meter away from transmitting antenna, it just the calibrated square area of field uniformity.
2. Adjusting the cables to be exposed to the electromagnetic field as possible.
3. Performing a Radiated Emission Scan in range of 30 to 1000 MHz prior to do RS test and records the more higher emission frequencies for the reference of RS test, due to antenna effectiveness.
4. Adjusting the monitoring camera to monitor the “H” message as clear as possible.
5. Setting the testing parameters of RS test software per IEC 61000-4-3.
6. Referring to the tested data of step 3 to performing the RS test from 80 to 1000 MHz.
7. Recording the test result in following table.
8. Changing the EUT to the other side and repeat step 3 to 6, until 4 sides of EUT were verified.

IEC 61000-4-3 Final test conditions:

Test level : 3V/m
 Steps : 1 % of fundamental
 Dwell Time : 3 sec

Range (MHz)	Field	Modulation	Polarity	Position (°)	Result (Pass/Fail)
80-1000	3V	Yes	H	Front	Pass
80-1000	3V	Yes	V	Front	Pass
80-1000	3V	Yes	H	Right	Pass
80-1000	3V	Yes	V	Right	Pass
80-1000	3V	Yes	H	Back	Pass
80-1000	3V	Yes	V	Back	Pass
80-1000	3V	Yes	H	Left	Pass
80-1000	3V	Yes	V	Left	Pass

Performance & Result:

- Criteria A:** The apparatus continues to operate as intended. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. In some cases the performance level may be replaced by a permissible loss of performance.
- Criteria B:** The apparatus continues to operate as intended after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. In some cases the performance level may be replaced by a permissible loss of performance. During the test, degradation of performance is however allowed.
- Criteria C:** Temporary loss of function is allowed, provided the functions self recoverable or can be restored by the operation of controls.

 PASS **FAILED**

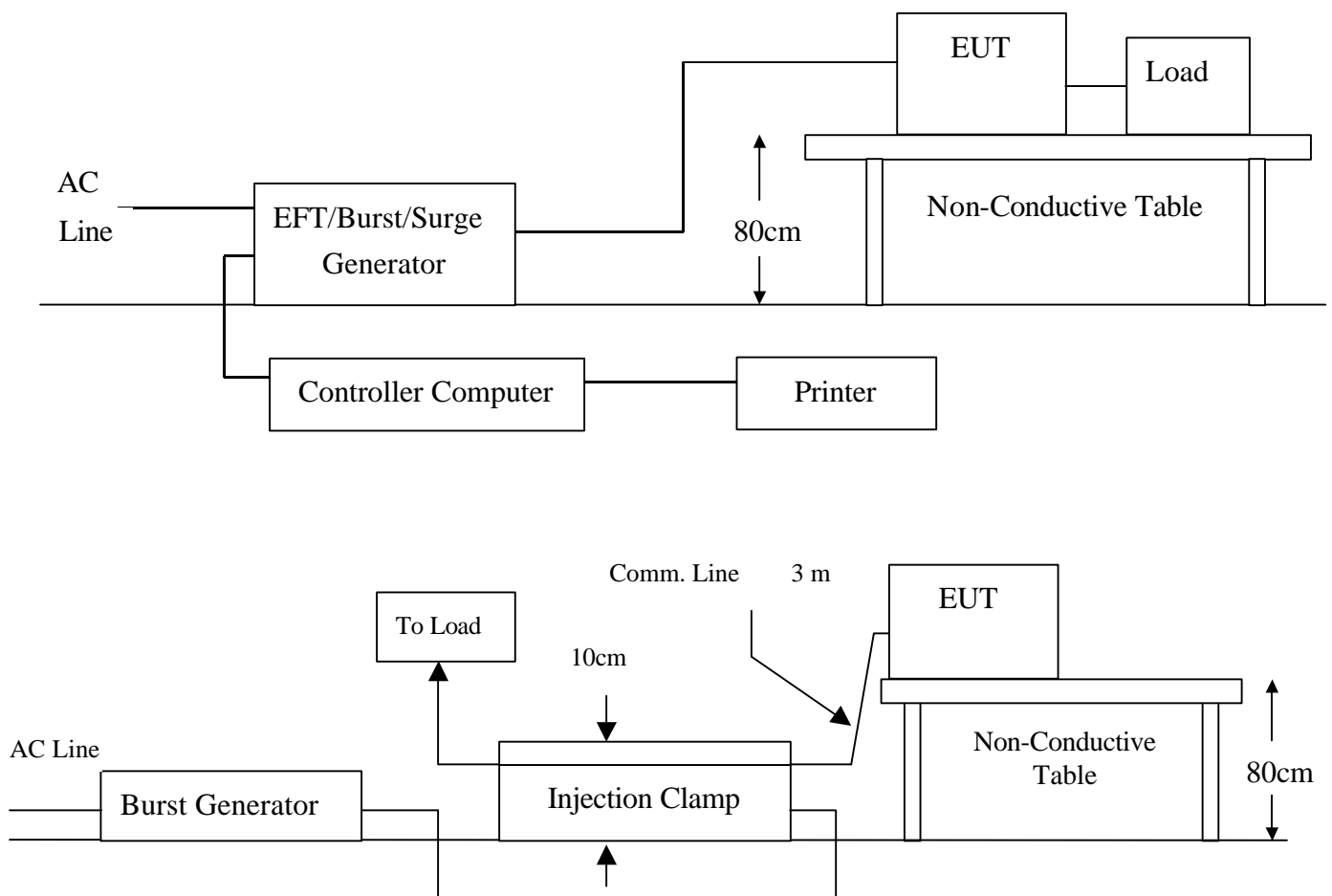
Observation: No any function degraded during the tests.

SECTION 5 IEC 61000-4-4 (FAST TRANSIENTS/BURST)

FAST TRANSIENTS/BURST IMMUNITY TEST

Port	: On Power Lines and Data Line
Basic Standard	: IEC 61000-4-4
Requirements	: $\pm 0.5\text{kV}$ for Power Supply Lines & Data Line
Performance Criteria	: B (Standard require)
Tested by	: Lung Tsai
Temperature	: 17
Humidity	: 51%

Block Diagram of Test Setup:



Test Procedure:

1. The EUT and support units were located on a wooden table 0.8 m away from ground reference plane.
2. A 1.0 meter long power cord was attached to EUT during the test.
3. The length of communication cable between communication port and clamp was keeping within 1 meter.
4. A test program was loaded and executed in Windows mode.
5. The data was display on the monitor and filling the screens.
6. The test program exercised related support units sequentially.
7. Repeating step 3 to 6 through the test.
8. Recording the test result as shown in following table.

Impulse Frequency: 5kHz

Tr/Th: 5/50ns

Burst Duration: 15ms

Burst Period: 300mS

Inject Line	Voltage kV	Inject Method	Result (Pass/Fail)
L1	±0.5	Direct	Pass
L2	±0.5	Direct	Pass
L1+L2	±0.5	Direct	Pass
LAN	±0.5	Clamp	Pass

Performance & Result:

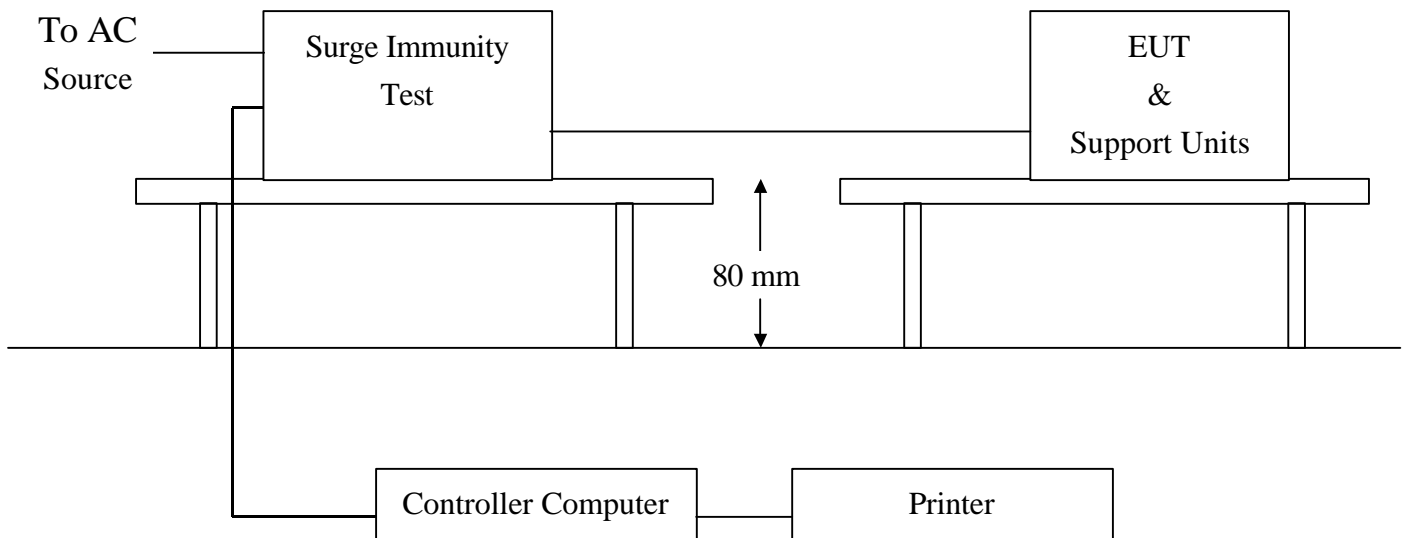
- Criteria A:** The apparatus continues to operate as intended. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. In some cases the performance level may be replaced by a permissible loss of performance.
- Criteria B:** The apparatus continues to operate as intended after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. In some cases the performance level may be replaced by a permissible loss of performance. During the test, degradation of performance is however allowed.
- Criteria C:** Temporary loss of function is allowed, provided the functions self recoverable or can be restored by the operation of controls.

PASS **FAILED**

Observation: No any function degraded during the tests.

SECTION 6 IEC 61000-4-5 (SURGE IMMUNITY)**SURGE IMMUNITY TEST**

Port	:	Power Cord
Basic Standard	:	IEC 61000-4-5
Requirements	:	+/- 0.5kV (Line to Line of DC Power)
Performance Criteria	:	B (Standard require)
Tester	:	Lung Tsai
Temperature	:	17
Humidity	:	51%

Block Diagram of Test Setup:

Test Procedure:

1. The EUT and support units were located on a wooden table 0.8 m away from ground floor.
2. A test program was loaded and executed in Windows mode.
3. The data was display on the monitor and filling the screens.
4. The test program exercised related support units sequentially.
5. Repeating step 3 to 4 through the test.
6. Recording the test result as shown in following table.

Test conditions:

Voltage Waveform : 1.2/50 us
 Current Waveform : 8/20 us
 Polarity : Positive/Negative
 Phase angle : 0°, 90°, 270°
 Number of Test : 5

Coupling Line	Voltage (kV)	Polarity	Coupling Method	Result (Pass/Fail)
L1-L2	0.5	Positive	Capacitive	Pass
L1-L2	0.5	Negative	Capacitive	Pass

Performance & Result:

- Criteria A:** The apparatus continues to operate as intended. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. In some cases the performance level may be replaced by a permissible loss of performance.
- Criteria B:** The apparatus continues to operate as intended after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. In some cases the performance level may be replaced by a permissible loss of performance. During the test, degradation of performance is however allowed.
- Criteria C:** Temporary loss of function is allowed, provided the functions self recoverable or can be restored by the operation of controls.

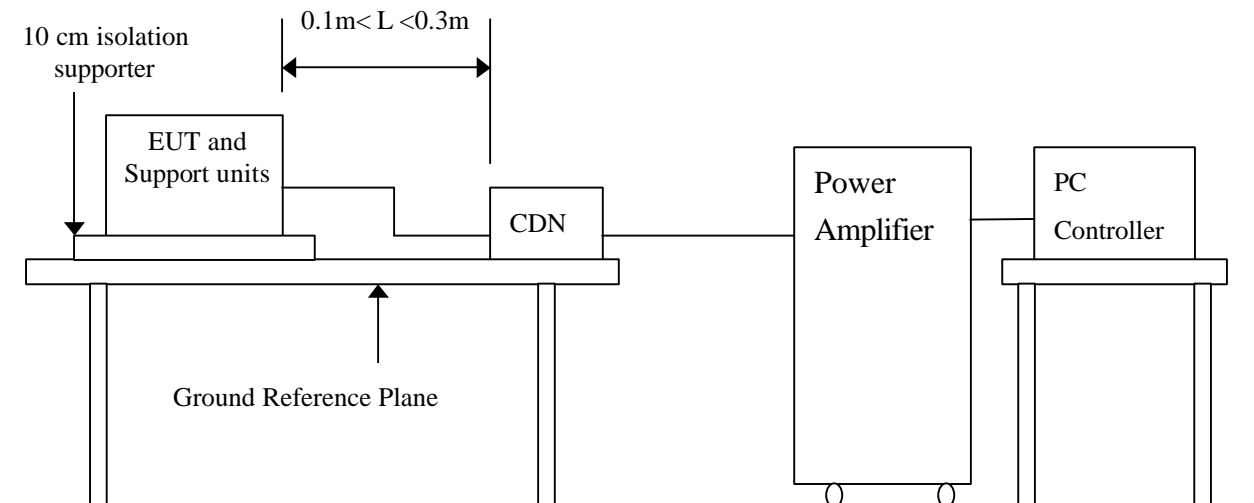
<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAILED
Observation: No any function degraded during the tests.

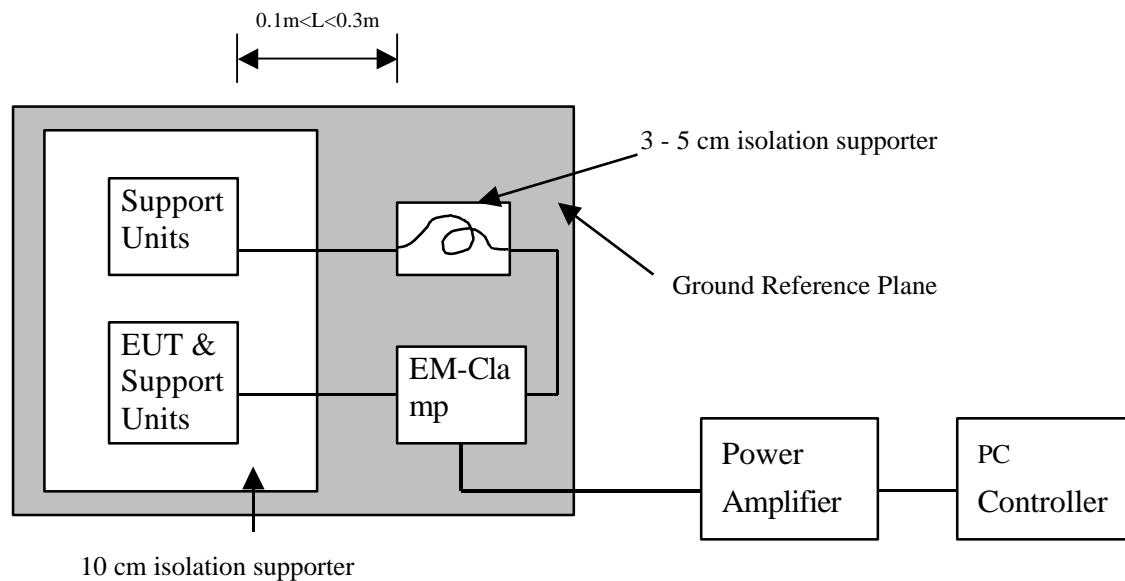
SECTION 7 IEC 61000-4-6 (CONDUCTED DISTURBANCE/INDUCED BY RADIO-FREQUENCY FIELD)

Port	: DC Power and Line Cable
Base Standard	: IEC 61000-4-6
Requirements	: 3 V with 80% AM. Modulation
Injection Method	: CDN for Power Cord Bulk Current Injection Probe for Line Cable
Deviation	:None
Performance Criteria	: A (Standard require)
Tester	: James Liao
Temperature	: 20
Humidity	: 70%
Note	: The EUT not have acoustic interfaces, the annex A of EN 55024 should not be applied.

Block Diagram of Test Setup:

Side view:



Top view:**Test Procedure:**

1. The EUT and support units were located at a ground reference plane with the interposition of a 0.1 m thickness insulating support and the CDN was located on GRP directly.
2. Transmit data messages were displayed on screen of Monitor.
3. Adjusting the monitoring camera to monitor the transmit data message as clear as possible.
4. Setting the testing parameters of CS test software per EN 61000-4-6.
5. Recording the test result in following table.

Test conditions:

Frequency Range : 0.15MHz-80MHz
 Frequency Step : 1% of fundamental
 Dwell Time : 3 sec

Range (MHz)	Field	Modulation	Result (Pass/Fail)
0.15-80	3V	Yes	Pass

Performance & Result:

- Criteria A:** The apparatus continues to operate as intended. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. In some cases the performance level may be replaced by a permissible loss of performance.
- Criteria B:** The apparatus continues to operate as intended after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. In some cases the performance level may be replaced by a permissible loss of performance. During the test, degradation of performance is however allowed.
- Criteria C:** Temporary loss of function is allowed, provided the functions self-recoverable or can be restored by the operation of controls.

PASS **FAILED**

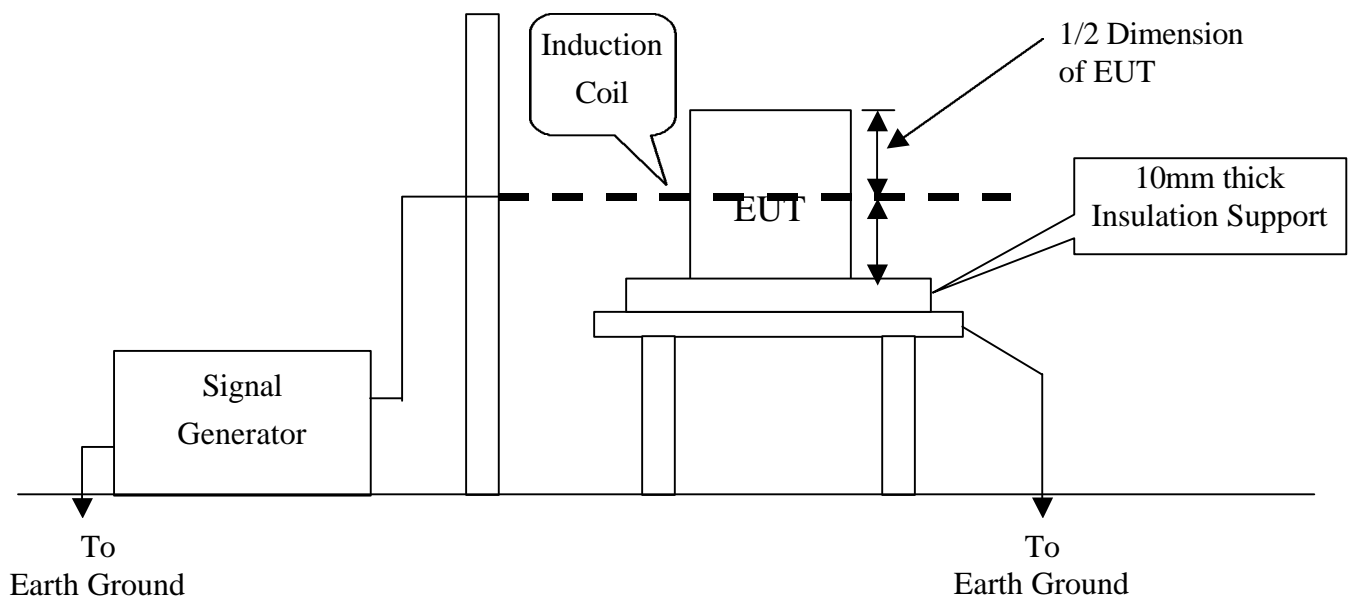
Observation: No any function degraded during the tests.

SECTION 8 IEC 61000-4-8 (POWER FREQUENCY MAGNETIC FIELD IMMUNITY TEST)

POWER FREQUENCY MAGNETIC FIELD IMMUNITY TEST

Port	: Enclosure
Basic Standard	: IEC 61000-4-8
Requirements	: 1 A/m
Performance Criteria	: A (Standard Required)
Tester	: N/A
Temperature	: N/A
Humidity	: N/A

Block Diagram of Test Setup:



Test Procedure:

1. The EUT and support units were located on Ground Reference Plane with the interposition of a 0.1 m thickness insulation support.
2. Putting the induction coil on horizontal direction.(X direction)
3. A test program was loaded and executed in Windows mode.
4. The data was displayed on the screen of Monitor and filling the screen.
5. The test program exercised related support units sequentially.
6. Repeating step 3 to 5 through the test.
7. Recording the test result as shown in following table.
8. Rotating the induction coil by 90° (Y direction) then repeat step 3 to 7.
9. Rotating the induction coil by 90° again (Z direction) then repeat step 3 to 7.

*. Test conditions:

Field Strength: 1A/m

Power Freq.: 50Hz

Orientation: X, Y, Z

Orientation	Field	Result (Pass/Fail)	Remark
X			
Y			
Z			

Performance & Result:

- Criteria A:** The apparatus continues to operate as intended. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. In some cases the performance level may be replaced by a permissible loss of performance.
- Criteria B:** The apparatus continues to operate as intended after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. In some cases the performance level may be replaced by a permissible loss of performance. During the test, degradation of performance is however allowed.
- Criteria C:** Temporary loss of function is allowed, provided the functions self recoverable or can be restored by the operation of controls.

 PASS *FAILED***Observation: N/A(EUT Without any magnetic component)**

SECTION 9 IEC 61000-4-11 (VOLTAGE DIPS, SHORT INTERRUPTIONS AND VOLTAGE VARIATIONS)

VOLTAGE DIPS / SHORT INTERRUPTIONS

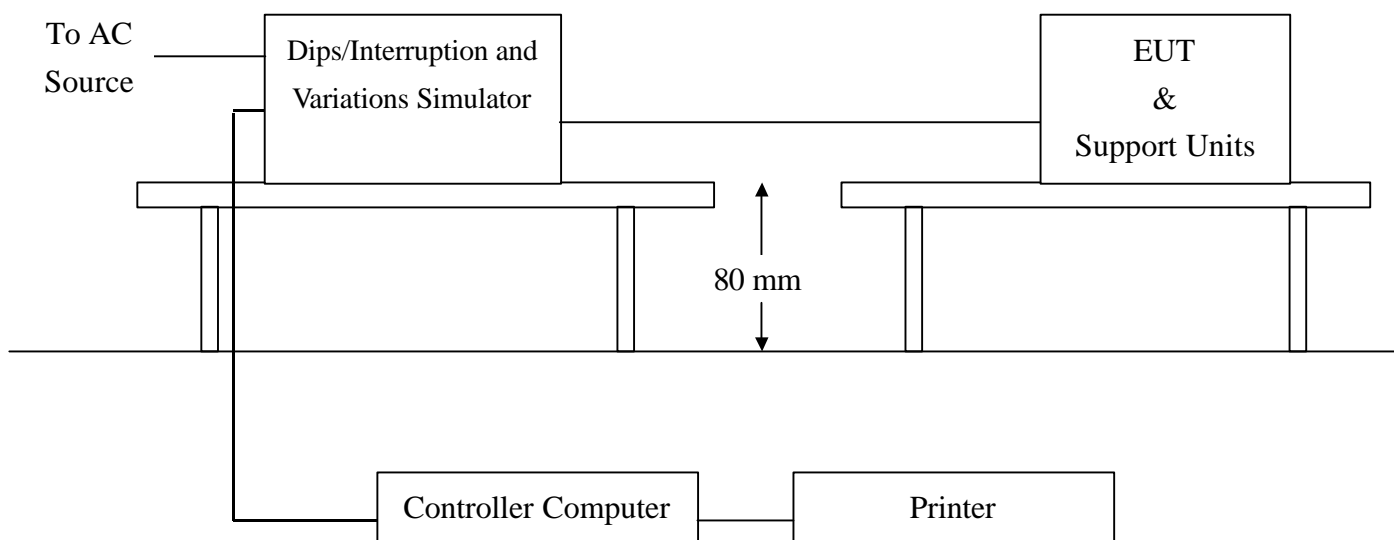
Port : AC mains
Basic Standard : IEC 61000-4-11 (1994)
Requirement : Phase angles 0, 45, 90, 135, 180, 225, 270, 315 degrees.

Voltage Dips	Test Level % U_T	Reduction (%)	Duration (periods)	Performance Criteria
	<5	>95	0.5	B
70	30	25	C	

Voltage Interceptions	Test Level % U_T	Reduction (%)	Duration (periods)	Performance Criteria
	<5	>95	250	C

Test Interval : Min. 10 sec.
Tester : N/A
Temperature : N/A
Humidity : N/A

Block Diagram of Test Setup:



Test Procedure:

1. The EUT and support units were located on a wooden table, 0.8 m away from ground floor.
2. A test program was loaded and executed in Windows mode.
3. The data was displayed on the monitor and filling the screens.
4. The test program exercised related support units sequentially.
5. Setting the parameter of tests and then Perform the test software of test simulator.
6. Conditions changes to occur at 0 degree crossover point of the voltage waveform.
7. Repeating step 3 to 4 through the test.
8. Recording the test result in test record form.

Test conditions:

The duration with a sequence of three dips/interruptions with interval of 10s minimum
(between each test events)

Voltage Dips:

Test Level % U _T	Reduction (%)	Duration (periods)	Observation	Meet Performance Criteria

Voltage Interruptions:

Test Level % U _T	Reduction (%)	Duration (periods)	Observation	Meet Performance Criteria

Normal: N/A

Performance & Result:

Criteria A: The apparatus continues to operate as intended. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. In some cases the performance level may be replaced by a permissible loss of performance.

Criteria B: The apparatus continues to operate as intended after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. In some cases the performance level may be replaced by a permissible loss of performance. During the test, degradation of performance is however allowed.

Criteria C: Temporary loss of function is allowed, provided the functions self recoverable or can be restored by the operation of controls.

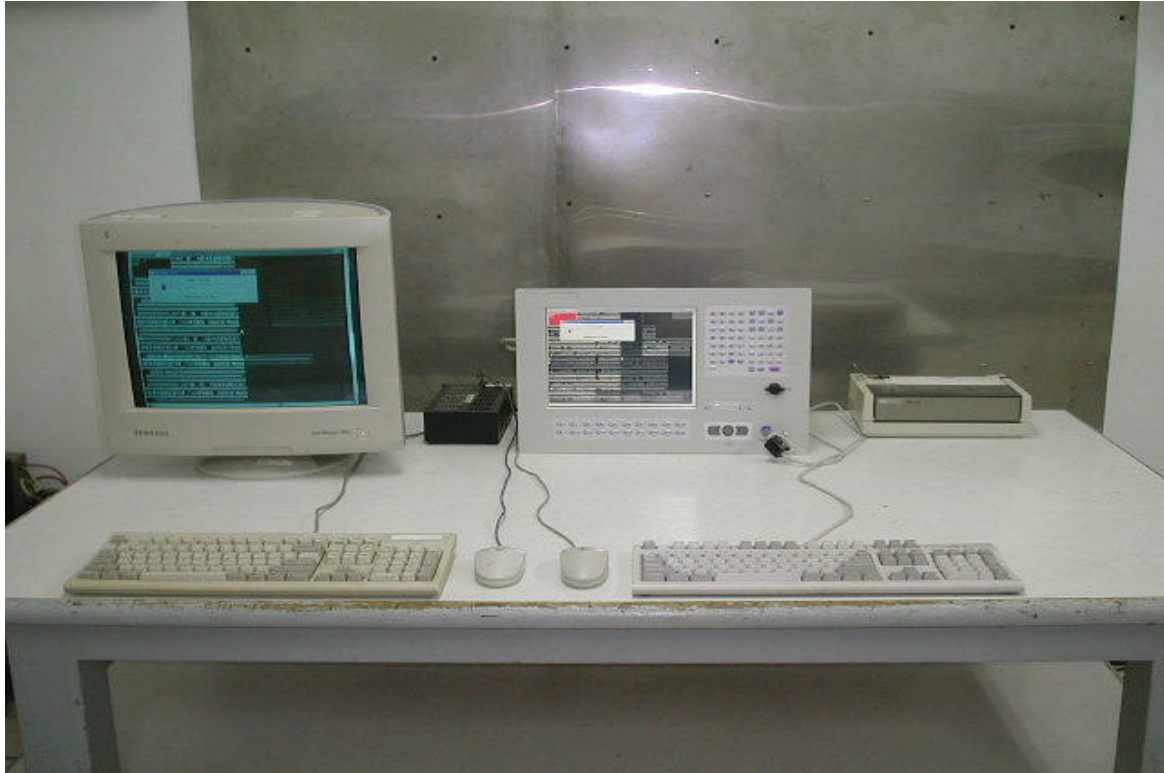
PASS **FAILED**

Observation: EUT No any AC Power Source.

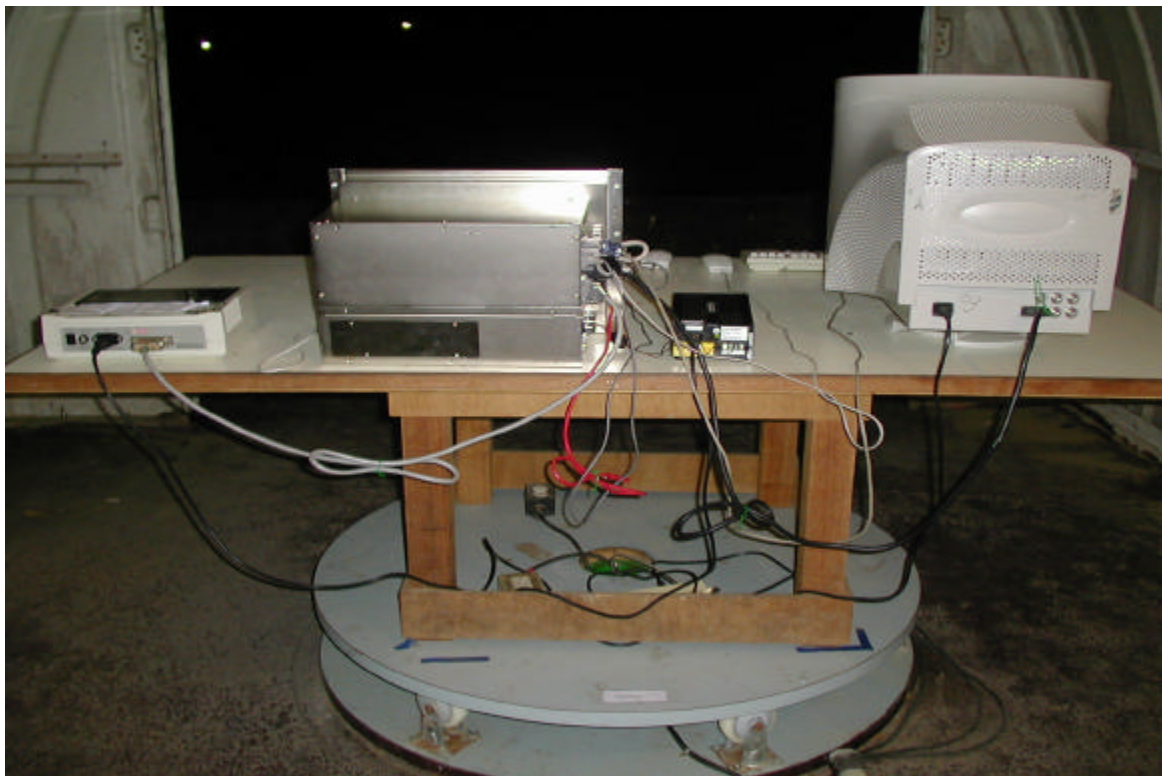
APPENDIX 1

PHOTOGRAPHS OF TEST SETUP

LINE CONDUCTED EMISSION TEST (EN 55022)



RADIATED EMISSION TEST (EN 55022)

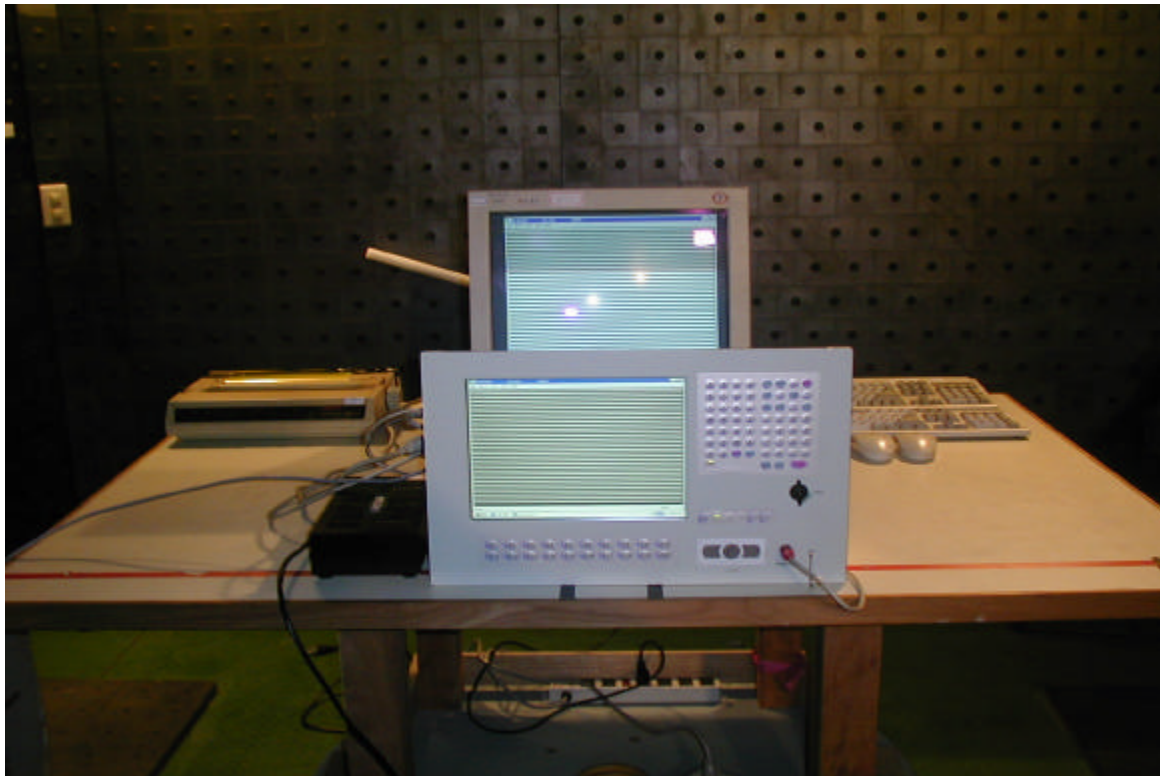


ELECTROSTATIC DISCHARGE TEST (IEC 61000-4-2)



RADIATED ELECTROMAGNETIC FIELD (IEC 61000-4-3)

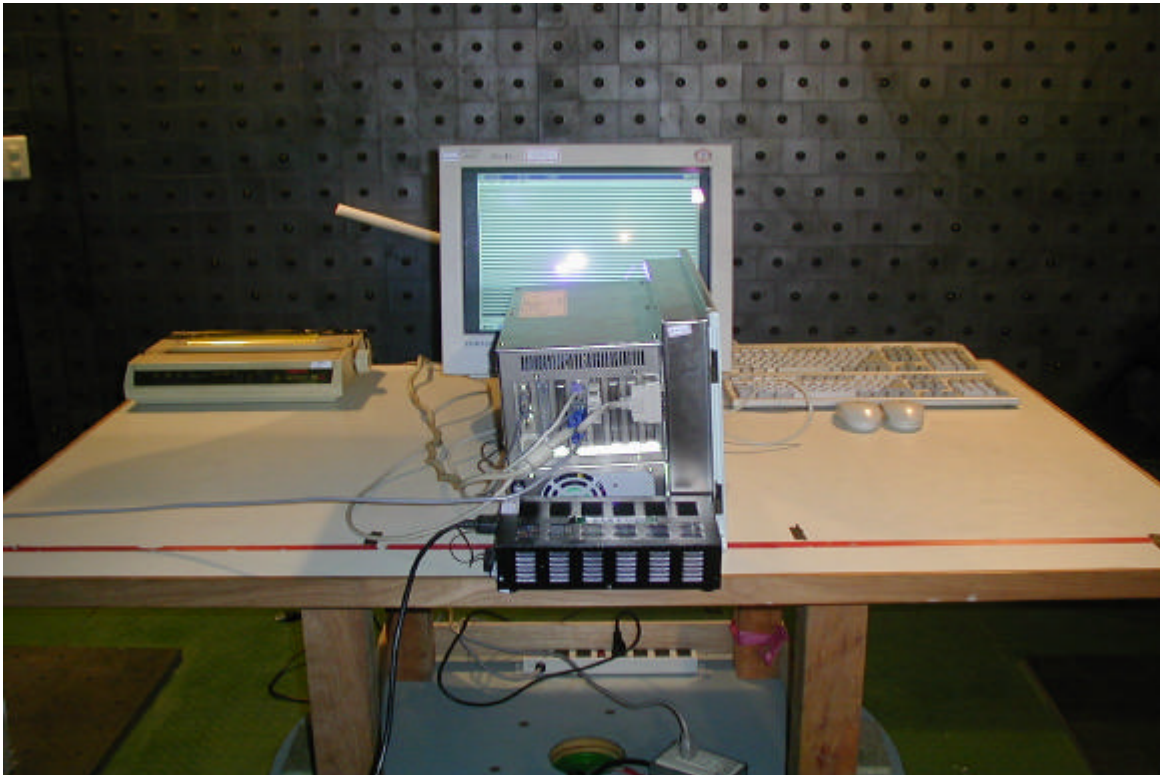
Front View



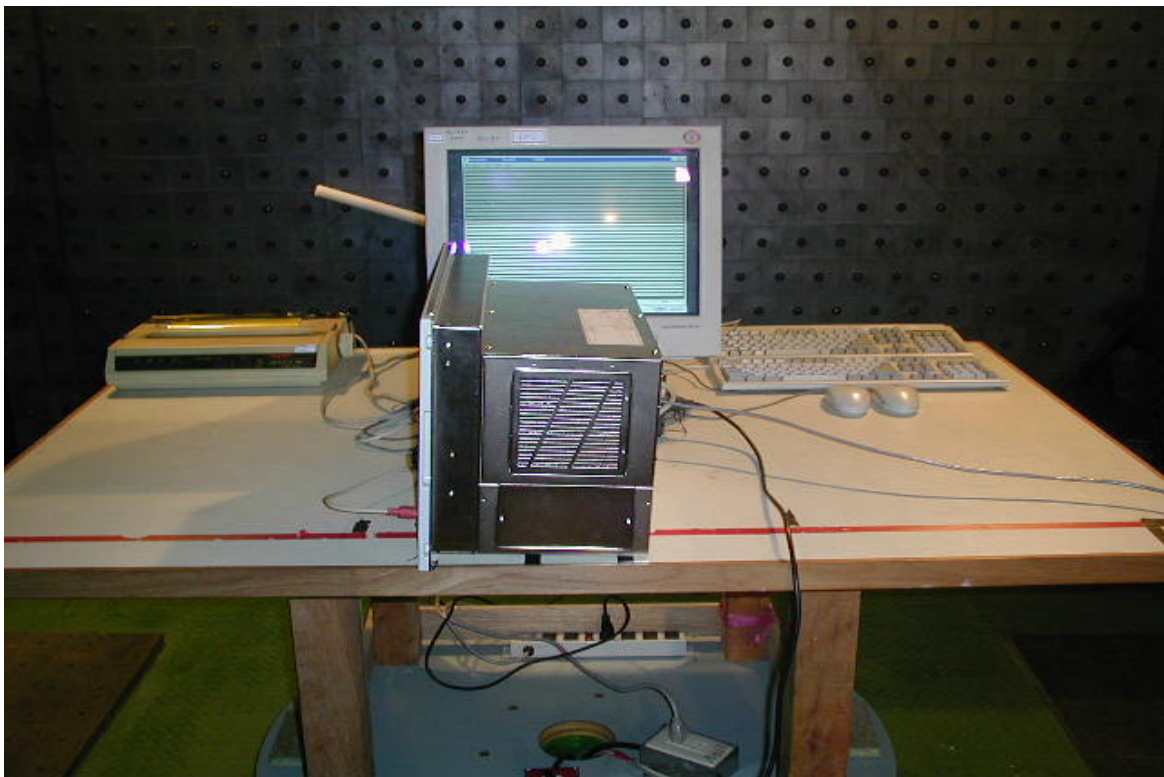
Back View



Right View



Left View



FAST TRANSIENTS/BURST TEST (IEC 61000-4-4 For Power)



FAST TRANSIENTS/BURST TEST(IEC 61000-4-4 For I/O)



SURGE IMMUNITY TEST(IEC 61000-4-5)



CONDUCTED DISTURBANCE, INDUCED BY RADIO-FREQUENCY FIELDS TEST (IEC 61000-4-6 For Power)



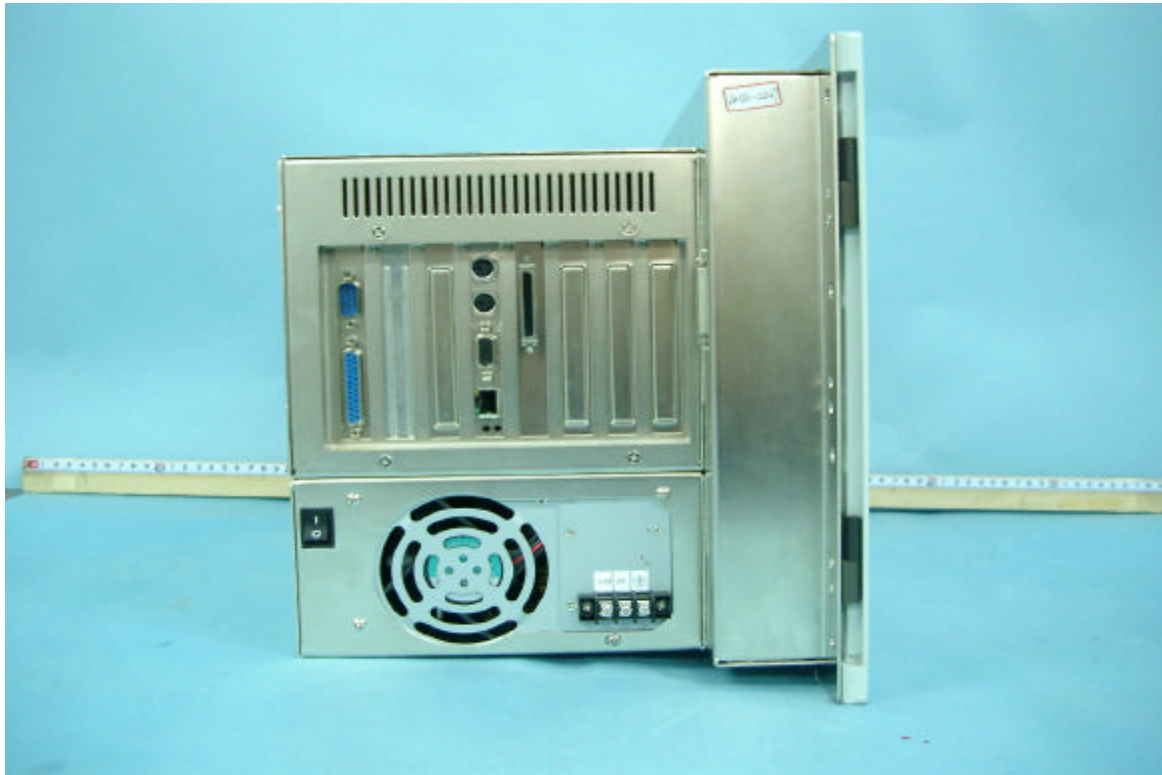
(IEC 61000-4-6 For I/O)



APPENDIX 2

PHOTOGRAPHS OF EUT







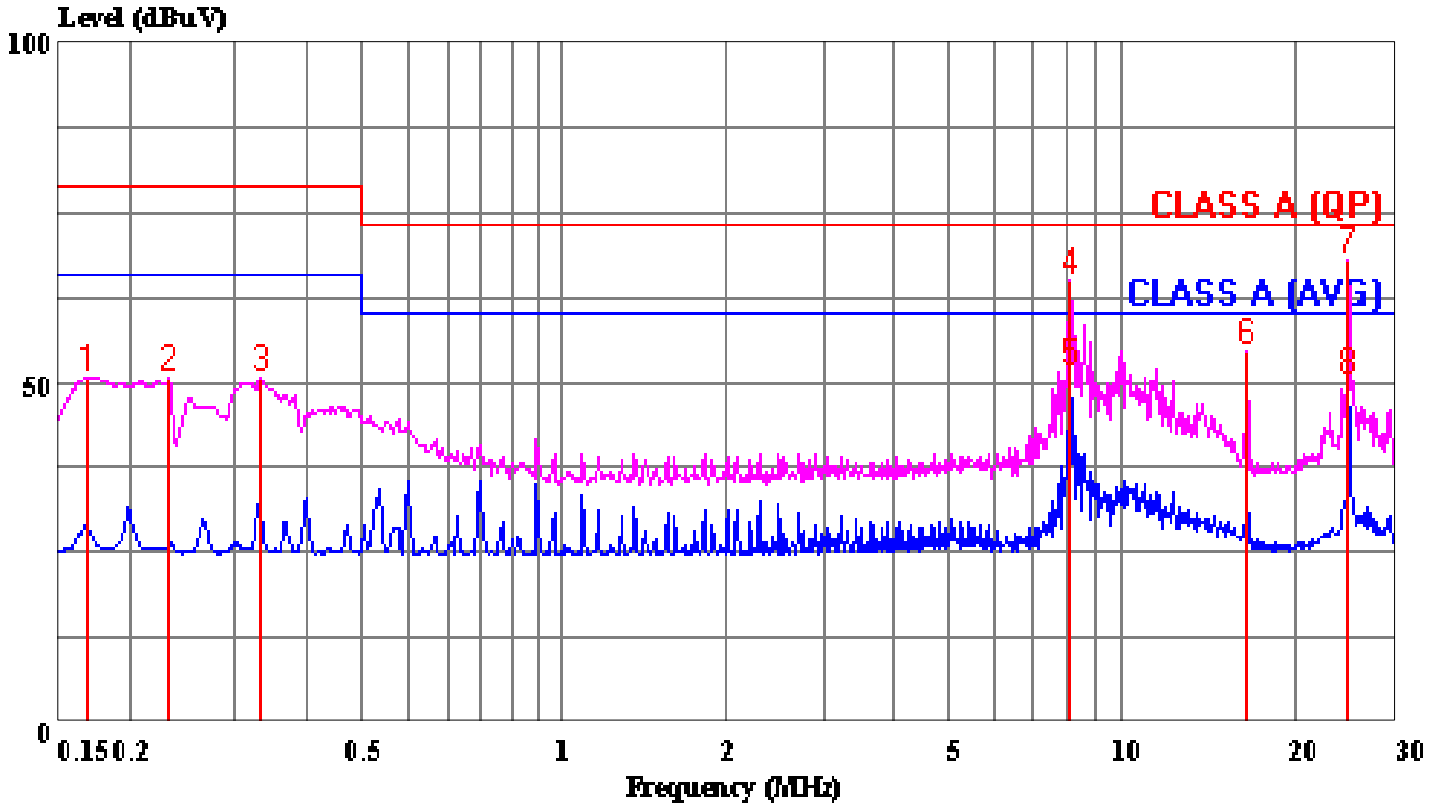


APPENDIX 3

CONDUCTED EMISSION PLOT RADIATED EMISSION DATA

Data#: 56 File#: 9462e.emi

Date: 2002-02-21 Time: 20:43:22



(CES Conducted)

Trace: 28 29

Ref Trace:

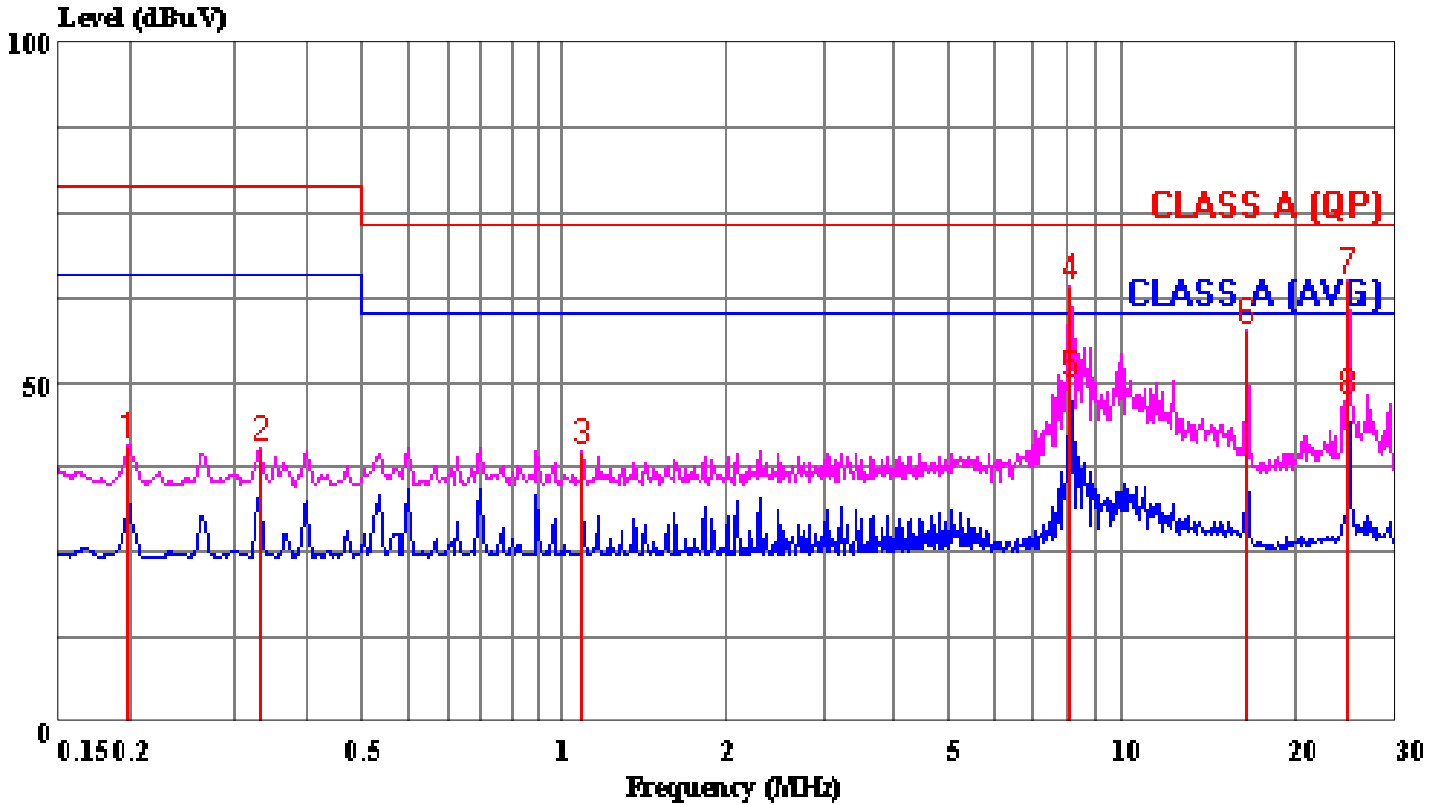
Condition: LINE
Report No. : 02E9963
Test Engr. : JAMES LIAO
Company : AAEON Technology Inc.
EUT : AMB-2427HIT
Test Config : EUT/ALL PERIPHERALS
Type of Test: EN 55022 CLASS B
Mode of Op. : 800X600 (WORST)

Page: 1

	Read Freq	Level	Factor	Level	Limit	Over	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.168	50.77	0.02	50.79	79.00	-28.21	Peak
2	0.233	50.47	0.02	50.49	79.00	-28.51	Peak
3	0.334	50.54	0.03	50.57	79.00	-28.43	Peak
4	8.235	64.51	0.32	64.83	73.00	-8.17	Peak
5	8.235	51.05	0.32	51.37	60.00	-8.63	Average
6	16.573	54.23	0.41	54.64	73.00	-18.36	Peak
7	24.790	67.44	0.50	67.94	73.00	-5.06	Peak
8	24.790	49.56	0.50	50.06	60.00	-9.94	Average

Data#: 59 File#: 9462e.emi

Date: 2002-02-21 Time: 20:44:50



(CES Conducted)

Trace: 36 37

Ref Trace:

Condition: NEUTRAL
Report No. : 02E9963
Test Engr. : JAMES LIAO
Company : AAeon Technology Inc.
EUT : AMB-2427HIT
Test Config : EUT/ALL PERIPHERALS
Type of Test: EN 55022 CLASS B
Mode of Op. : 800X600 (WORST)

Page: 1

	Read Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.198	40.74	0.02	40.76	79.00	-38.24	Peak
2	0.334	40.41	0.03	40.44	79.00	-38.56	Peak
3	1.197	39.79	0.09	39.88	73.00	-33.12	Peak
4	8.235	63.77	0.32	64.09	73.00	-8.91	Peak
5	8.235	49.41	0.32	49.73	60.00	-10.27	Average
6	16.573	57.06	0.41	57.47	73.00	-15.53	Peak
7	24.790	64.50	0.50	65.00	73.00	-8.00	Peak
8	24.790	46.59	0.50	47.09	60.00	-12.91	Average

Data#: 12 File#: 9462d.emi
CCS D-Site

Date: 2002-02-21 Time: 16:23:31

Condition: VERTICAL / 10m
Report No. : 02E9963
Test Engr. : JAMES LIAO
Company : AAEON Technology Inc.
EUT : AMB-2427HTT
Test Config : EUT/ALL PERIPHERALS
Type of Test: EN 55022 CLASS B
Mode of Op. : 800X600 (WORST)

Page: 1

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1	32.996	45.97	-8.74	37.24	40.00	-2.76	Peak
2	37.122	44.53	-8.45	36.08	40.00	-3.92	Peak
3	41.243	46.74	-8.18	38.56	40.00	-1.44	QP
4	57.744	45.75	-8.25	37.50	40.00	-2.51	Peak
5	66.856	42.39	-8.82	33.57	40.00	-6.43	Peak
6	74.256	44.36	-10.78	33.58	40.00	-6.42	Peak
7	123.778	43.16	-7.99	35.17	40.00	-4.83	Peak
8	132.033	35.39	-6.79	28.60	40.00	-11.40	Peak
9	156.789	42.79	-5.30	37.48	40.00	-2.52	Peak
10	173.300	40.27	-6.00	34.27	40.00	-5.73	Peak
11	189.789	43.05	-7.47	35.58	40.00	-4.42	Peak
12	206.298	46.88	-7.97	38.91	40.00	-1.09	QP
13	239.300	42.06	-6.56	35.51	47.00	-11.49	Peak
14	247.533	44.42	-6.29	38.14	47.00	-8.86	Peak
15	255.822	42.84	-6.10	36.74	47.00	-10.26	Peak
16	264.056	34.24	-5.83	28.40	47.00	-18.60	Peak
17	272.367	35.70	-5.54	30.17	47.00	-16.83	Peak
18	334.056	37.27	-3.85	33.42	47.00	-13.58	Peak
19	354.856	32.64	-3.43	29.21	47.00	-17.79	Peak
20	387.867	38.31	-2.54	35.76	47.00	-11.24	Peak
21	404.422	33.15	-2.12	31.03	47.00	-15.97	Peak
22	429.111	36.95	-1.64	35.31	47.00	-11.69	Peak
23	434.567	33.34	-1.49	31.84	47.00	-15.16	Peak
24	495.144	32.76	-0.66	32.10	47.00	-14.90	Peak

Data#: 13 File#: 9462d.emi
CCS D-Site

Date: 2002-02-21 Time: 18:32:34

Condition: HORIZONTAL / 10m
Report No. : 02E9963
Test Engr. : JAMES LIAO
Company : AAEON Technology Inc.
EUT : AMB-2427HTT
Test Config : EUT/ALL PERIPHERALS
Type of Test: EN 55022 CLASS B
Mode of Op. : 800X600 (WORST)

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	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1	33.044	42.70	-8.74	33.97	40.00	-6.03	Peak
2	41.244	38.36	-8.18	30.18	40.00	-9.82	Peak
3	57.778	42.07	-8.25	33.82	40.00	-6.19	Peak
4	123.756	39.41	-7.99	31.42	40.00	-8.58	Peak
5	165.044	34.84	-5.53	29.31	40.00	-10.69	Peak
6	189.800	38.40	-7.47	30.93	40.00	-9.07	Peak
7	206.267	41.04	-7.97	33.07	40.00	-6.93	Peak
8	239.333	38.59	-6.56	32.04	47.00	-14.96	Peak
9	255.889	41.95	-6.10	35.85	47.00	-11.15	Peak
10	334.089	34.66	-3.85	30.81	47.00	-16.19	Peak
11	404.311	33.45	-2.14	31.31	47.00	-15.69	Peak
12	453.911	29.94	-1.17	28.77	47.00	-18.23	Peak
13	486.889	35.26	-0.71	34.55	47.00	-12.45	Peak