CE EMC

TEST REPORT

For

2U Rack Mounting Chassis

Model: ARC-625

Trade Name: AAEON

Issued for

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

Issued by



Compliance Certification Services Inc. Hsintien Lab.

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Date of Issue: November 3, 2004

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TEST RESULT CERTIFICATION

Applicant: AAEON Technology Inc.

5F, No.135, Lane 235, Pao Chiao Rd., Hsin-Tien City,

Date of Issue: November 3, 2004

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.

Equipment Under Test: 2U Rack Mounting Chassis

AAEON Trade Name:

Model: Detailed EUT Description: See Item 2 of this report

Date of Test: October 28, 2004 ~ November 2, 2004

ARC-625

Applicable Standard	Class/Limit/Criterion	Test Result		
EN 55022: 1998 + A1: 2000	Class A	No non-compliance noted		
EN 61000-3-2: 2000	Class D	N/A		
EN 61000-3-3: 1995 + A1: 2001	Limit	N/A		
EN 55024:1998 + A1: 2001 + A2: 2003, including	ng			
IEC 61000-4-2: 1995 +A1: 1998 +A2: 2000	Criterion B	No non-compliance noted		
IEC 61000-4-3: 1995 +A1: 1998 +A2: 2000	Criterion A	No non-compliance noted		
IEC 61000-4-4: 1995 +A1: 2000	Criterion B	No non-compliance noted		
IEC 61000-4-5: 1995 +A1: 2000	Criterion B	N/A		
IEC 61000-4-6: 1996 +A1: 2000	Criterion A	No non-compliance noted		
IEC 61000-4-8: 1993 +A1: 2000	Criterion A	No non-compliance noted		
IEC 61000-4-11: 1994 +A1: 2000	Criterion B/C/C	N/A		
Deviation from Applicable Standard				
None				

The above equipment was tested by Compliance Certification Services Inc. for compliance with the requirements set forth in the EMC Directive 89/336/EMC and the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Approved by: Reviewed by:

Rick Yeo Manager of Hsintien Laboratory

Rick yes

Compliance Certification Services Inc.

Vince Chiang

Section Manager of Hsintien Laboratory Compliance Certific ation Services Inc.

Page 3 Total Page: 46 2 EUT DESCRIPTION

Product	2U Rack Mounting Chassis
Trade Name	AAEON
Model	ARC-625
Housing Type	Metal case
EUT Power Rating	N/A
AC Power During Test	230VAC / 50 Hz to Host PC Power Supply
Power Supply Manufacturer	Seventeam
Power Supply Model Number	ST-402HLP
AC Power Cord Type	Unshielded, 1.8m (Detachable) to Host PC Power Supply
OSC/Clock Frequency	N/A

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I/O PORT OF EUT

I/O PORT TYPE	Q'TY	TESTED WITH

Note: Client consigns only one model sample (Model Number is ARC-625) to test.

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3 TEST METHODOLOGY

3.1 EUT SYSTEM OPERATION

- 1. Windows XP boots system.
- 2. Run Emctest.exe To Activate All Peripherals And Display "H" Pattern On Monitor Screen.

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3. Press the start menu, select executive and type ping 192.168.0.1 –t (Server Notebook), ping 192.168.0.5 –t (EUT).

Note: Test program is self-repeating throughout the test.

3.2 DECISION OF FINAL TEST MODE

1. The following test mode(s) were scanned during the preliminary test:

1. NORMAL MODE

2. After the preliminary scan, the following test mode(s) was found to produce the highest emission level.

Conduction: Mode 1 **Radiation:** Mode 1

Then, the EUT configuration and cable configuration of the above highest emission mode was chosen for all final test items.

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4 SETUP OF EQUIPMENT UNDER TEST

Setup Diagram

See test photographs attached in Appendix I for the actual connections between EUT and support equipment.

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Support Equipment

Host PC Devices:

No	Equipment	Model #	Serial #	FCC ID/ BSMI ID	Trade Name
1	PCI BOARD	BP-206VG-P4	N/A	N/A	N/A
2	CPU BOARD	FSB-860B	N/A	N/A	N/A
3	CPU (2.4GHz)	P4	N/A	N/A	Intel
4	RAM (256MB)	DD2508AMTA	N/A	N/A	ELPIDA
5	CD-ROM	CD-2050E	N/A	N/A	AFREEY
6	Floppy	FD-235HF	N/A	N/A	TEAC
7	HDD	HTS424020M9AT00	N/A	N/A	НІТАСНІ
8	Power Supply	ST-402HLP	N/A	N/A	Seventeam

Peripherals Devices:

No	Equipment	Model	Serial No.	FCC ID/ BSMI ID	Trade Name	Data Cable	Power Cord
1	USB Mouse	M-BE5	LZE20309352	BSMI ID: 3892A471	Logitech	Shielded, 1.9m	N/A
2	USB Mouse	M-S34	LZB90411543	BSMI ID: 4862A011 DZL211029	Logitech	Shielded, 1.9m	N/A
3	USB Mouse	M-S34	LNA12301890	BSMI ID: 4862A011 DZL211029	Logitech	Shielded, 1.9m	N/A
4	PS/2 Mouse	M-BE5	LZE20309352	BSMI ID: 3892A471	Logitech	Shielded, 1.9m	N/A
5	PS/2 Keyboard	6311-TW4C16	N/A	BSMI ID: 4862A064	ACER	Shielded, 1.7m	N/A
6	Monitor	171T	GH17H4LT702613Z	BSMI: R33475	SAMSUNG	Shielded, 1.8m with two cores	Unshielded, 1.8m
7	Server Notebook	M285	RD49R-7YTJR- B3C4K-G2JQX- DD3CG	BSMI: R31259 DoC	LEO	Unshielded, 20m	Unshielded, 1.8m with a core

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

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

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FACILITIES AND ACCREDITATIONS

5.1 FACILITIES

All measurement facilities used to collect the measurement data are located at CCS Taiwan Hsintien Lab at No. 165, Chunghsen Road, Hsintien City, Taipei Hsien, Taiwan.

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The measurement facilities are constructed in conformance with the requirements of CISPR 16-1, ANSI C63.4 and other equivalent standards.

5.2 LABORATORY ACCREDITATIONS AND LISTINGS

The test facilities used to perform Electromagnetic compatibility tests are registered or accredited by the organizations listed in the following table which includes the recognized scope specifically.

Country	Agency	Scope of Accreditation	Logo
USA	A2LA	CFR 47, FCC Part 15/18 using ANSI 63.4; AS/NZS 3548; VCCI V3; CNS 13438; CNS 13439; CNS 13783; CNS 14115; CISPR 11/EN 55011; CISPR 14-1/EN 55014-1; CISPR 15/EN 55015; CISPR 22/EN 55022; EN 50081-1/EN 61000-6-3; EN 50082-1/EN 61000-6-4; IEC/EN 61000-4-2, IEC/EN 61000-4-3, IEC/EN 61000-4-4, IEC/EN 61000-4-5, IEC/EN 61000-4-6, IEC/EN 61000-4-8, IEC/EN 61000-4-11, IEC/EN 61000-3-2, IEC/EN 61000-3-3; CISPR 24/EN 55024; CISPR 14-2/EN 55014-2; EN 50081-2/EN 61000-6-1; EN 50082-2/EN 61000-6-2.	ACCREDITED
USA	FCC	3/10 meter Open Area Test Sites to perform FCC Part 15/18 measurements	F © 250366
Japan	VCCI	3/10 meter Open Area Test Sites and Line Conducted Test Room to perform conducted/radiated measurements	VCCI R-1434/1630~4 C-1511/1882
Norway	NEMKO	EN 50081-1/2, EN 50082-1/2, IEC 61000-6-1/2/3/4, EN 50091-2, EN 50130-4, EN 55011, EN 55013, EN 55014-1/2, EN 55015, EN 55022, EN 55024, EN 61000-3-2/3, EN 61326-1, IEC 61000-4-2/3/4/5/6/8/11, Cispr 16-1/2/3/4	N ELA 103
Taiwan	CNLA	47 CFR FCC Part 15 Subpart B, EN 61000-3-2, EN 61000-3-3, CNS 13439, CNS 13783-1, CNS 13438, AS/NZS 3548, VCCI, CNS 13022-1/2/3, EN 55022, EN 55013, EN 55014-1, EN 61000-4-2/3/4/5/6/8/11, ENV 50204, ENV 50141, ENV 50142	1108 ILAC MRA
Taiwan	BSMI	CNS 13438, CNS 13783-1, CNS 13439	SL2-IN-E-0005 SL2-A1-E-0005 SL2-R1-E-0005 SL2-R2-E-0005

Note: No part of this report may be used to claim or imply product endorsement by CNLA, A2LA or other government agency.

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6 INSTRUMENT AND CALIBRATION

6.1 MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated once a year or in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

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6.2 TEST AND MEASUREMENT EQUIPMENT

The following list contains measurement equipment used for testing. The equipment conforms to the requirement of CISPR 16-1, ANSI C63.2 and. other required standards.

Calibration of all test and measurement, including any accessories that may effect such calibration, is checked frequently to ensure the accuracy. Adjustments are made and correction factors are applied in accordance with the instructions contained in the respective manual.

Equipment Used for Emission Measurement

Open Area Test Site # I						
EQUIPMENT	MFR	MODEL	SERIAL NUMBER	CAL. DUE		
SITE NSA	CCS	I Site	N/A	09/17/2005		
MEASURE RECEIVER	SCHAFFNER	SCR3501	338	07/05/2005		
SPECTRUM ANALYZER	ADVANTEST	R3132	120900008	No Calibration Required		
ANTENNA	SCHAFFNER	CBL 6112B	2809	09/26/2005		
AMPLIFIER	SCHAFFNER	CPA9231A	3626	10/08/2005		
CABLE	BELDEN	9913	N-TYPE #I1	10/08/2005		
ATTENUATOR	MCL	UNAT-6	AT06-3	10/08/2005		
THERMO- HYGRO METER	TFA	N/A	NO.2	11/23/2004		
DECOUPLING NETWORK	FCC	F-201-DCN-5-6MM	22、24	09/07/2005		

Note: The measurement uncertainty is less than +/- 3.36dB, which is evaluated as per the NAMAS NIS 81 and CISPR/A/291/CDV.

Conducted Emission Test Site # A							
EQUIPMENT	MFR	MODEL	SERIAL NUMBER	CAL. DUE			
TEST RECEIVER	R&S	ESHS20	840455/006	03/07/2005			
LISN (EUT)	SCHWARZBECK	NSLK 8127	8127382	01/05/2005			
LISN	SOLAR	8012-50-R-24-BNC	8305114	02/10/2005			
BNC CABLE	MIYAZAKI	5D-FB	BNC A1	01/30/2005			
THERMO- HYGRO METER	TOP	HA-202	9303-1	03/24/2005			

Note: The measurement uncertainty is less than +/- 2.83dB, which is evaluated as per the NAMAS NIS 81 and CISPR/A/291/CDV.

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Power Harmonic & Voltage Fluctuation/Flicker Test Site (EN 61000-3-2&-3-3)						
Manufacturer/Type	Model No.	Serial No.	Cal. Due			
Schaffner / Signal Conditioning Unit	CCN 1000-1	72122	12/02/2004			
Schaffner / 5KVA AC Power Source	NSG 1007	55131	No Calibration Required			

Equipment Used for Immunity Measurement

ESD Test Site (EN 61000-4-2)						
Manufacturer/Type	Model No.	Serial No.	Cal. Due			
Schaffner / ESD Simulator	NSG 438	129	04/21/2005			
Stockburger / Aneroid Barometer	Barometer	9303	03/30/2005			
TOP / Thermo-Hygro meter	HA-202	9303-1	03/24/2005			

Radiated Electromagnetic Field Immunity Test Site (EN 61000-4-3)						
Manufacturer/Type	Model No.	Serial No.	Cal. Due			
Calibration of Field	Chamber#RS	RS3H-6 / RS3V-6	07/02/2005			
Agilent / Signal Generator	E4421B	MY43350597	05/30/2005			
AR / Electric Field Probe	FP6001	305650	11/14/2004			
Boonton / RF Voltmeter	9200B	328001AE	02/18/2005			
BNC / Function Generator	625	25451	02/18/2005			
AR / Amplifier	100W1000M1	17564	No Calibration Required			
Werlatone Inc. / Direction Coupler	C2630	4121	No Calibration Required			
Frankonia / Broadband Antenna	BTA-M	030001M	No Calibration Required			
TOP / Thermo-Hygro meter	HA-202	9303-2	03/24/2005			

Fast Transients/Burst Test Site (EN 61000-4-4)							
Manufacturer/Type Model No. Serial No. Cal. Due							
Schaffner / EFT Generator	BEST EMC V2.3	200031A024SC	11/17/2004				
Schaffner / Capacitive Clamp	N/A	N/A	No Calibration Required				

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Surge Immunity Test Site (EN 61000-4-5)							
Manufacturer/Type Model No. Serial No. Cal. Due							
Schaffner / Surger Generator	BEST EMC V2.3	200031A024SC	11/17/2004				
Schaffner / Signal and Data Lines Coupling Network	CDN118	19328	No Calibration Required				

CS test (EN 61000-4-6)						
Manufacturer/Type	Model No.	Serial No.	Cal. Due			
Schaffner / RF Generator	NSG 2070-1	1061	08/02/2005			
Schaffner / CDN	CDN M316	19600	08/02/2005			
Schaffner / CDN	/ CDN CDN M216		08/02/2005			
Schaffner / EM Clamp	KEMZ 801	19227	03/02/2005			
Schaffner / CDN	CDN A800	17885	08/02/2005			
Schaffner / CDN	CDN T002	15881	01/30/2005			
FCC / CDN	FCC-801-T8-RJ45	04025	06/24/2005			
Schaffner / Attenuator	INA2070-1	2061	No Calibration Required			
FCC / CDN	FCC-801-T4-RJ45	04031	08/19/2005			

Power Frequency Magnetic Field Immunity test (EN 61000-4-8)							
Manufacturer/Type	Model No.	Serial No.	Cal. Due				
Schaffner / Induction Coil Interface	INA 21141	6009	No Calibration Required				
Schaffner / 5KVA AC Power Source	NSG 1007	55131	No Calibration Required				
CHY/ TRMS Clamp Meter	932C	2K0900285	10/12/2005				
Sypris / Magnetic Field Meter	4080	0247	02/11/2005				

Voltage Dips/Short Interruption and Voltage Variation Immunity test (EN 61000-4-11)							
Manufacturer/Type Model No. Serial No. Cal. Due							
Schaffner / Dips/Interruption/Variations Tester	BEST EMC V2.3	200031A024SC	11/17/2004				
Protronix / Digital Power Meter	1201	201091	08/31/2005				

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7 LINE CONDUCTED & RADIATED EMISSION TEST

7.1 LIMIT

Maximum permissible level of Line Conducted Emission

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

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

<u>Maximum permissible level of Common Mode Conducted Emission</u> (<u>Telecommunication Ports</u>)

CLASS A

FREQUENCY	Voltage Lin	nit (dBuV)	Current Limit (dBuA)		
(MHz)	Quasi-peak Average		Quasi-peak	Average	
0.15 - 0.5	97 – 87	84 - 74	53 – 43	40 – 30	
0.5 - 30.0	87	74	43	30	

CLASS B

FREQUENCY	Voltage Lin	nit (dBuV)	Current Limit (dBuA)		
(MHz)	Quasi-peak	Average	Quasi-peak	Average	
0.15 - 0.5	84 - 74	74 - 64	40 – 30	30 – 20	
0.5 - 30.0	74	64	30	20	

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

Maximum permissible level of Radiated Emission measured at 10 meter

FREQUENCY	Class A (dBuV/m)	Class B (dBuV/m)		
(MHz)	Quasi-peak	Quasi-peak		
30 – 230	40	30		
230 - 1000	47	37		

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

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7.2 TEST PROCEDURE OF LINE CONDUCTED EMISSION

Procedure of Preliminary Test

• The EUT was set up as per the test configuration to simulate typical 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.

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- Support equipment, if needed, was placed as per EN 55022.
- All I/O cables were positioned to simulate typical actual usage as per EN 55022.
- The test system with EUT received AC power, 230V/50Hz, through a Line Impedance Stabilization Network (LISN), which supplied power source and was grounded to the ground plane.
- All support equipment received power from a second LISN.
- The EUT test program was started. Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.
- The Receiver scanned from 150kHz to 30MHz for emissions in each of the test modes.
- During the above scans, the emissions were maximized by cable manipulation.
- The test mode(s) described in Item 3.2 were scanned during the preliminary test.
- After the preliminary scan, we found the test mode described in Item 3.2 producing the highest emission level.
- The EUT configuration and cable configuration of the above highest emission level were recorded for reference of the final test.

Procedure of Final Test

- EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test.
- 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 Average limit in Q.P. mode, then the emission signal was re-checked using an Average detector.
- The test data of the worst-case condition(s) was recorded.

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Data Sample:

Freq. MHz	Read Level dBuV	Factor dB	Level dBuV	Limit dBuV	Over Limit dB	Reading Type (P/Q/A)	Line (L1/L2)
x.xx	42.95	0.55	43.50	73	-29.50	Q	L1

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Freq. = Emission frequency in MHz

Read Level = Uncorrected Analyzer/Receiver reading Factor = Insertion loss of LISN + Cable Loss

Level = Read Level + Factor Limit = Limit stated in standard Over Limit = Reading in reference to limit

P = Peak Reading

Q = Quasi-peak Reading A = Average Reading

L1 = Hot side L2 = Neutral side

Calculation Formula

Over Limit (dB) = Level (dBuV) – Limit (dBuV)

7.3 TEST PROCEDURE OF COMMON MODE CONDUCTED EMISSION FOR TELECOMMUNICATION PORT

- Selecting ISN for unscreened cable or a current probe for screened cable to take measurement.
- The port of the EUT was connected to the remote side support equipment through the ISN/Current Probe and communication in normal condition.
- Making a overall range scan by using the test receiver controlled by controller and record at least six highest emissions for showing in the test report.
- 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.
- In case of measuring on the screened cable, the current limit shall be applied, otherwise the voltage limit should be applied.
- The following test mode(s) were scanned during the preliminary test:

N/A

• After the preliminary scan, we found the following test mode(s) producing the highest emission level and test data of the worst case was recorded.

N/A

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Data Sample:

Freq. MHz	Read Level dBuV	Factor dB	Level dBuV	Limit dBuV	Over Limit dB	Reading Type (P/Q/A)
x.xx	62.95	0.55	63.50	87	-23.50	Q

Date of Issue: November 3, 2004

Freq. = Emission frequency in MHz

Read Level = Uncorrected Analyzer/Receiver reading Factor = Insertion loss of ISN + Cable Loss

Level = Read Level + Factor Limit = Limit stated in standard Over Limit = Reading in reference to limit

P = Peak Reading

Q = Quasi-peak Reading A = Average Reading

Calculation Formula

Over Limit (dB) = Level (dBuV) – Limit (dBuV)

7.4 TEST PROCEDURE OF RADIATED EMISSION

Procedure of Preliminary Test

- The equipment was set up as per the test configuration to simulate typical 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. 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.
 - Support equipment, if needed, was placed as per EN 55022.
 - All I/O cables were positioned to simulate typical usage as per EN 55022.
 - The EUT received AC power source, 230V/50Hz, from the outlet socket under the turntable. All support equipment received power from another socket under the turntable.
 - Mains cables, telephone lines or other connections to auxiliary equipment located outside the
 test are shall drape to the floor, be fitted with ferrite clamps or ferrite tubes placed on the floor
 at the point where the cable reaches the floor and then routed to the place where they leave the
 turntable. No. extension cords shall be used to mains receptacle.
 - The antenna was placed at 10 meter away from the EUT as stated in EN 55022. The antenna connected to the Spectrum Analyzer via a cable and at times a pre-amplifier would be used.
 - 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.

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- The test mode(s) described in Item 3.2 were scanned during the preliminary test:
- After the preliminary scan, we found the test mode described in Item 3.2 producing the highest emission level.
- The EUT and cable configuration, antenna position, polarization and turntable position of the above highest emission level were recorded for the final test.

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Procedure of Final Test

- EUT and support equipment were set up on the turntable as per the configuration with highest emission level in the preliminary test.
- 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.
- 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 Q.P. reading is presented.

Data Sample:

Freq. MHz	Amptd dBuV/m	Margin dB	Limit dBuV/m	Reading dBuV	Factor dB/m	Reading Type (P/Q/A)	Pol. (H/V)
x.xx	26.2	-13.8	40	14	12.2	Q	Н

Freq. = Emission frequency in MHz

Reading = Uncorrected Analyzer/Receiver reading

Factor = Antenna Factor + Cable Loss + Attenuator (3/6/10dB) – Amplifier Gain

Amptd = Uncorrected Analyzer/Receiver reading + Factor

Limit = Limit stated in standard

Margin = Reading in reference to limit

P = Peak Reading

Q = Quasi-peak Reading A = Average Reading

H = Antenna Polarization: Horizontal V = Antenna Polarization: Vertical

Calculation Formula

Margin (dB) = Amptd (dBuV/m) – Limit (dBuV/m)

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7.5 TEST RESULTS

Line Conducted Emission

Model: ARC-625 Test Mode: Mode 1

Temperature: 20°C **Humidity:** 68% RH

Test Results: Passed **Tested by:** Elvis Zeng

(The chart below shows the highest readings taken from the final data, see **Appendix II** for details.)

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	Six Highest Conducted Emission Readings						
Fre	quency Ran	ge Investiga	ated	150 kHz to 30 MHz			
Freq (MHz)	Read Level (dBuV)	Factor (dB)	Level (dBuV)	Limit Line (dBuV)	Over Limit (dB)	Reading Type (P/Q/A)	Line (L1/L2)
0.150	67.23	0.11	67.34	79.00	-11.66	P	L1
0.235	60.97	0.11	61.08	79.00	-17.92	P	L1
1.441	43.47	0.16	43.63	73.00	-29.37	P	L1
0.150	66.97	0.11	67.08	79.00	-11.92	P	L2
0.165	64.55	0.11	64.66	79.00	-14.34	P	L2
0.235	58.65	0.11	58.76	79.00	-20.24	P	L2

NOTE: The emission level was or more than 2dB below the Average limit, so no re-check anymore.

Common Mode Conducted Emission

Not applicable.

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Radiated Emission

Model: ARC-625 Test Mode: Mode 1

Temperature: 24°C **Humidity:** 70% RH

Test Results: Pass Tested by: Elvis Zeng

(The chart below shows the highest readings taken from the final data, see Appendix II for details.)

Date of Issue: November 3, 2004

Six Highest Radiated Emission Readings							
Frequency	Frequency Range Investigated 30 MHz to 1000 MHz at 10m						
Freq (MHz)	Amptd (dBuV/m)	Tyne				Pol. (H/V)	
167.2500	30.02	-9.98	40.00	41.38	-11.36	P	${f V}$
181.6000	31.01	-8.99	40.00	42.88	-11.87	P	${f V}$
250.0000	36.69	-10.31	47.00	44.57	-7.88	P	\mathbf{V}
119.9160	36.44	-3.56	40.00	46.00	-9.56	Q	Н
150.0000	29.61	-10.39	40.00	40.22	-10.61	P	Н
239.9000	36.27	-10.73	47.00	44.92	-8.65	P	H

NOTE: None.

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8 POWER HARMONICS TEST

Port : AC mains

Basic Standard : EN 61000-3-2 (2000)

Limits : CLASS A; CLASS D

Tested by : N/A
Temperature : N/A
Humidity : N/A

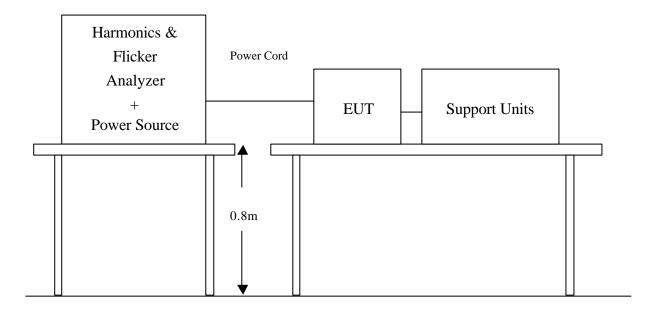
Limit:

Limits for	Limits for Class A equipment				
Harmonics	Max. permissible				
Order	harmonics current				
n	A				
Od	d harmonics				
3	2.30				
5	1.14				
7	0.77				
9	0.40				
11	0.33				
13	0.21				
15<=n<=39	0.15x15/n				
Eve	en harmonics				
2	1.08				
4 0.43					
6	0.30				
8<=n<=40 0.23x8/n					

Limits for Class D equipment							
Harmonics Order n	Max. permissible harmonics current per watt mA/W	Max. permissible harmonics current					
	Odd Harmonics only	7					
3	3.4	2.30					
5	1.9	1.14					
7	1.0	0.77					
9	0.5	0.40					
11	0.35	0.33					
13	0.30	0.21					
15<=n<=39	3.85/n	0.15x15/n					

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Block Diagram of Test Setup:



Test Procedure:

- a. The EUT was placed on the top of a wooden table 0.8 meters above the ground and operated to produce the maximum harmonic components under normal operating conditions for each successive harmonic component in turn.
- b. The correspondent test program of test instrument to measure the current harmonics emanated from EUT is chosen. The measure time shall be not less than the time necessary for the EUT to be exercised.

Test Result:

☐ PASS	☐ FAIL
Note: Not applicable, because EUT no connect	t to AC Main Source.

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9 POWER VOLTAGE FLUCTUATION / FLICKER TEST

Port : AC mains

Basic Standard : EN 61000-3-3 (1995 + A1: 2001)

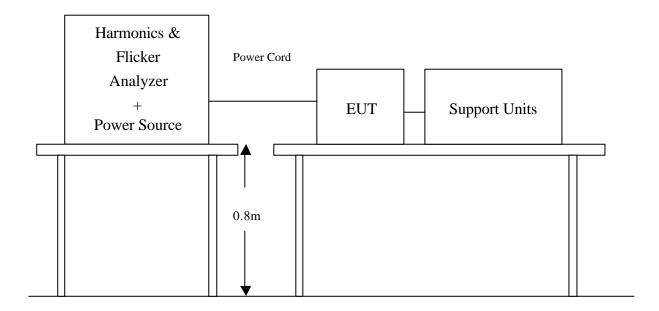
Limits : § of EN 61000-3-3

Tested by : N/A
Temperature : N/A
Humidity : N/A

Limit:

TEST ITEM	LIMIT	REMARK
P_{st}	1.0	P _{st} means short-term flicker indicator.
P_{lt}	0.65 P _{lt} means long-term flicker indicator.	
T _{dt} (ms)	500	T_{dt} means maximum time that dt exceeds 3.3 %.
d _{max} (%)	4%	d_{max} means maximum relative voltage change.
dc (%)	3.3%	dc means relative steady-state voltage change

Block Diagram of Test Setup:



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Test Procedure:

- The EUT was placed on the top of a wooden table 0.8 meters above the ground and operated to produce the most unfavorable sequence of voltage changes under normal operating conditions.
- During the flick measurement, the measure time shall include that part of whole operation cycle in which the EUT produce the most unfavorable sequence of voltage changes. The observation period for short-term flicker indicator is 10 minutes and the observation period for long-term flicker indicator is 2 hours.

Test Result:

TEST PARAMETER	MEASUREMENT VALUE	LIMIT	RESULT
P_{st}	N/A	1.0	N/A
P_{lt}	N/A	0.65	N/A
T _{dt} (ms)	N/A	500	N/A
d _{max} (%)	N/A	4%	N/A
dc (%)	N/A	3.3%	N/A

Note: Not applicable, because EUT no connect to AC Main Source.

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10 ELECTROSTATIC DISCHARGE (ESD) IMMUNITY TEST

Port : Enclosure

Basic Standard: IEC/EN 61000-4-2

Test Level : $\pm 8 \text{ kV (Air Discharge)}$

± 4 kV (Contact Discharge) ± 4 kV (Indirect Discharge)

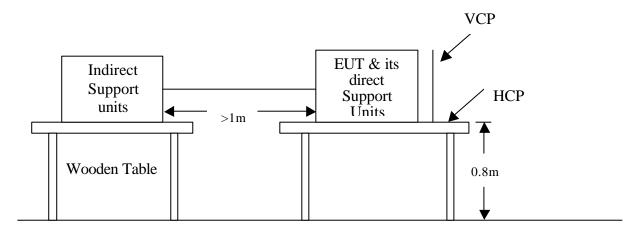
Performance Criterion: B (Standard Required)

Teste d by : Marion Yu
Temperature : 18°C
Humidity : 47%

Pressure : 1013mbar

Block Diagram of Test Setup:

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



Ground Reference Plane

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Test Procedure:

- 1. The EUT was located 0.1 m minimum from all side of the HCP.
- 2. The indirect support units were located 1 m minimum away from the EUT, but direct support unit was/were located at same location as EUT on the HCP and keep at a distance of 10 cm with EUT.

Date of Issue: November 3, 2004

- 3. 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.
- 4. 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.
- 5. The application of ESD to the contact of open connectors is not required.
- 6. The EUT direct connection units also need to be applied ESD at the port of EUT cable connected.
- 7. Putting a mark on EUT to show tested points. The following test condition was followed during the tests.

Note: As per IEC/EN 61000-4-2, two 470k bleed resistors cable is connected between the EUT and HCP during the test applicable for power ungrounded or battery operating unit only.

The electrostatic discharges were applied as follows:

Amount of discharge	Voltage	Coupling	Result (Pass/Fail)
Mini 10 /Point	$\pm 8 \text{ kV}$	Air Discharge	Pass
Mini 25 /Point	±4 kV	Contact Discharge	Pass
Mini 25 /Point	± 4 kV	Indirect Discharge HCP (Front)	Pass
Mini 25 /Point	± 4 kV	Indirect Discharge VCP (Right)	Pass
Mini 25 /Point	± 4 kV	Indirect Discharge VCP (Left)	Pass
Mini 25 /Point	± 4 kV	Indirect Discharge VCP (Back)	Pass

^{**}For the tested points to EUT, please refer to attached page.
(Blue arrow mark for contact discharge and red arrow mark for air discharge)

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Performance & Result:

\boxtimes	Criterion 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.
	Criterion 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.
	Criterion C:	Temporary loss of function is allowed, provided the functions self recoverable or can be restored by the operation of controls.
Oł	bservation:	No function degraded during the tests.

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The Tested Points of EUT

Photo 1 of 5



Photo 2 of 5

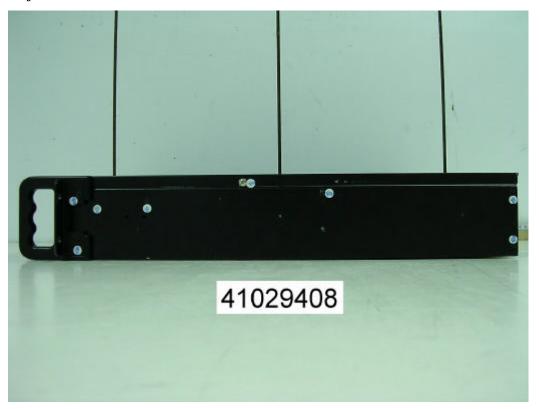


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Photo 3 of 5

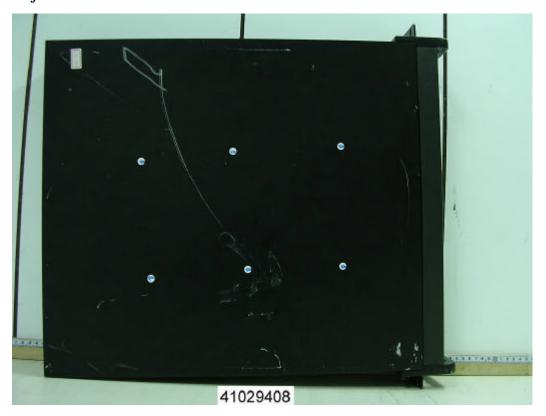


Photo 4 of 5



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Photo 5 of 5



11 RADIATED ELECTROMAGNETIC FIELD IMMUNITY TEST

Port : Enclosure

Basic Standard: IEC/EN 61000-4-3

Requirements : 3 V/m / with 80% AM. 1kHz Modulation.

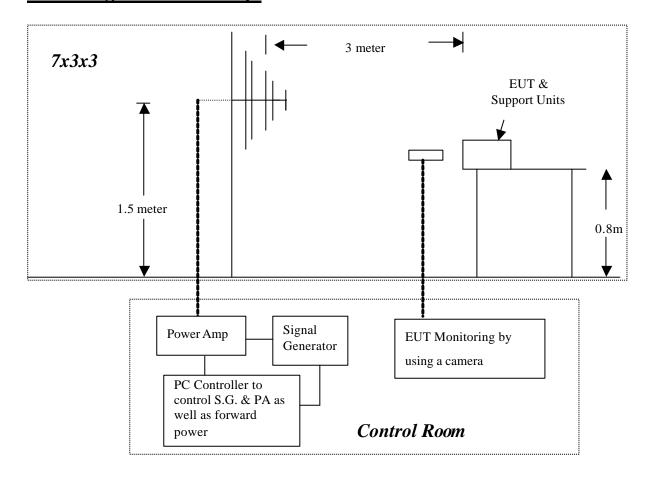
Performance Criterion: A (Standard Required)

Tested by : Marion Yu **Temperature** : 18°C

Humidity : 47%

Pressure : 1013mbar

Block Diagram of Test Setup:



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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.

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- 2. Adjusting the cables to be exposed to the electromagnetic filed 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	Н	Front	Pass
80-1000	3V	Yes	V	Front	Pass
80-1000	3V	Yes	Н	Right	Pass
80-1000	3V	Yes	V	Right	Pass
80-1000	3V	Yes	Н	Back	Pass
80-1000	3V	Yes	V	Back	Pass
80-1000	3V	Yes	Н	Left	Pass
80-1000	3V	Yes	V	Left	Pass

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Performance & Result:

	Criterion 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. h some cases the performance level may be replaced by a permissible loss of performance.				
	Criterion 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.				
	Criterion C:	Temporary loss of function is allowed, provided the functions self recoverable or can be restored by the operation of controls.				
Ol	Observation: No function degraded during the tests.					

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12 FAST TRANSIENTS/BURST IMMUNITY TEST

Port : On Power Supply Lines

Basic Standard: IEC/EN 61000-4-4

Requirements : $\pm 1 \text{ kV}$ for Power Supply Line

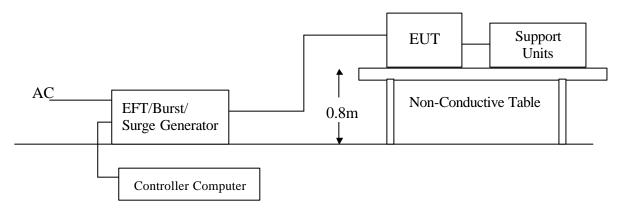
Performance Criteria: B (Standard Required)

Teste d by : Marion Yu

Temperature : 18°C **Humidity** : 47%

Pressure: 1013mbar

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. Injected test voltage to the EUT ports from minimum to standard request or client request.
- 5. Recorded the test result as shown in following table.

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Test conditions:

Impulse Frequency: 5kHz
Tr/Th: 5/50ns
Burst Duration: 15ms
Burst Period: 3Hz

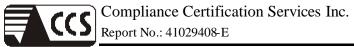
Inject Line	Voltage kV	Inject Method	Result (Pass/Fail)
L	± 1	Direct	Pass
N	± 1	Direct	Pass
PE	± 1	Direct	Pass
L + N	± 1	Direct	Pass
L + PE	± 1	Direct	Pass
N + PE	± 1	Direct	Pass
L + N + PE	± 1	Direct	Pass

Date of Issue: November 3, 2004

Performance & Result:

	Criterion 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.
	Criterion 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.
	Criterion C:	Temporary loss of function is allowed, provided the functions self recoverable or can be restored by the operation of controls.
Observation: No function degraded during the tests.		

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13 SURGE IMMUNITY TEST

Port : Power Cord

Basic Standard : IEC/EN 61000-4-5

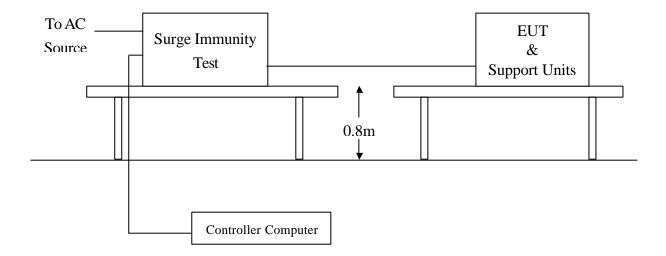
Requirements : $\pm 1 \text{ kV}$ (Line to Line)

± 2 kV (Line to Ground)

Performance Criteria: B (Standard Required)

Tested by : N/A **Temperature** : N/A Humidity : N/A **Pressure** : 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. Injected test voltage to the EUT ports from minimum to standard request or client request.
- 3. Recorded the test result as shown in following table.

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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	1	Positive	Capacitive	N/A
L1-PE	2	Positive	Capacitive	N/A
L2-PE	2	Positive	Capacitive	N/A
L1-L2	1	Negative	Capacitive	N/A
L1-PE	2	Negative	Capacitive	N/A
L2-PE	2	Negative	Capacitive	N/A

Performance & Result:

Criterion 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.
Criterion 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.
Criterion C:	Temporary loss of function is allowed, provided the functions self recoverable or can be restored by the operation of controls.
	☐ PASS ☐ FAIL
Observation	Not applicable, because EUT no connect to AC Main Source.

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14 CONDUCTED DISTRBANCE/INDUCED RADIO-FREQUENCY FIELD IMMUNITY TEST

Port : AC Port

Basic Standard : IEC/EN 61000-4-6

Requirements : 3 V, with 80% AM. 1kHz Modulation.

Injection Method : CDN-M3 for Power Cord

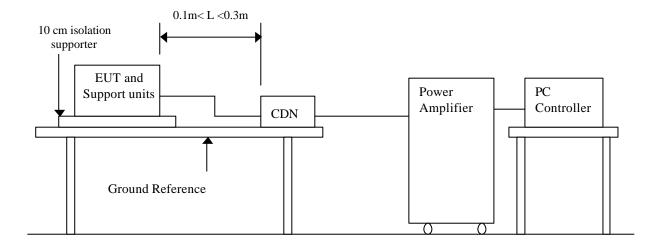
Performance Criterion: A (Standard Required)

Tested by : Marion Yu

: 18°C **Temperature** Humidity **:** 47%

Pressure : 1013mbar

Block Diagram of Test Setup:



Test Procedure:

- 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. Set the testing parameters of CS test software as per IEC/EN 61000-4-6.
- 3. Recorded the test result in following table.

Page 35 Rev. 00 **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

Date of Issue: November 3, 2004

Performance & Result:

	Criterion 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.
	Criterion 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.
	Criterion C:	Temporary loss of function is allowed, provided the functions self recoverable or can be restored by the operation of controls.
Observation: No function degraded during the tests.		

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15 POWER FREQUENCY MAGNETIC FIELD IMMUNITY TEST

Port : Enclosure

Basic Standard: IEC/EN 61000-4-8

Requirements : 1 A/m

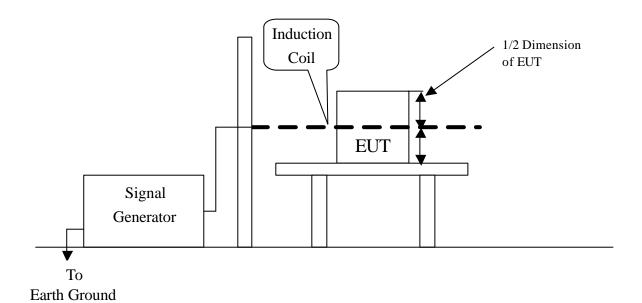
Performance Criterion: A (Standard Required)

Teste d by : Marion Yu

Temperature : 18°C **Humidity** : 47%

Pressure : 1013mbar

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. Put the induction coil on horizontal direction. (X direction)
- 3. Recorded the test result as shown in following table.
- 4. Rotated the induction coil by 90° (Y direction) then repeat step 3.
- 5. Rotated the induction coil by 90° (Z direction) then repeat step 3.

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Test conditions:

Field Strength: 1A/m Power Freq.: 50Hz Orientation: X, Y, Z

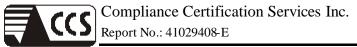
Orientation	Field	Result (Pass/Fail)	Remark
X	1A	Pass	No any function degraded during the tests.
Y	1A	Pass	No any function degraded during the tests.
Z	1A	Pass	No any function degraded during the tests.

Date of Issue: November 3, 2004

Performance & Result:

	Criterion 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.
	Criterion 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.
	Criterion C:	Temporary loss of function is allowed, provided the functions self recoverable or can be restored by the operation of controls.
Ol	bservation:	No function degraded during the tests.

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16 VOLTAGE DIPS / SHORT INTERRUPTIONS

AC mains **Port**

Basic Standard IEC/EN 61000-4-11

Requirement PHASE ANGLE 0, 45, 90, 135, 180, 225, 270, 315 degrees

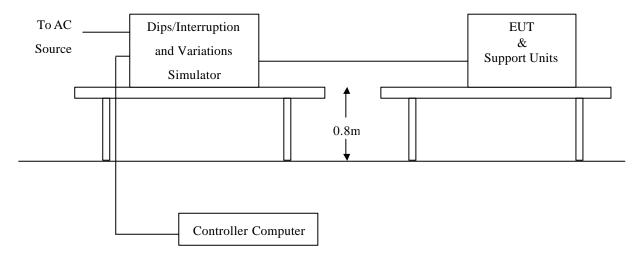
Test Interval Min. 10 sec.

Tested by N/A **Temperature** N/A Humidity N/A **Pressure** N/A

Voltage	Test Level % U _T	Reduction (%)	Duration (periods)	Performance Criterion
Dips	<5	>95	0.5	В
	70	30	25	C

Voltage Interceptions	Test Level % U _T	Reduction (%)	Duration (periods)	Performance Criterion
Interceptions	<5	>95	250	С

Block Diagram of Test Setup:



Test Procedure:

- The EUT and support units were located on a wooden table, 0.8 m away from ground floor.
- 2. Set the parameter of tests and then Performed the test software of test simulator.
- Changed Condition to occur at 0 degree crossover point of the voltage waveform.
- 4. Recorded the test result in test record form.

Page 39 Rev. 00 **Test conditions:**

The duration with a sequence of three dips/interruptions with interval of 10 sec. minimum (Between each test event)

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Voltage Dips:

Test Level % U _T	Reduction (%)	Duration (periods)	Observation	Meet Performance Criterion
0	100	0.5	N/A	N/A
70	30	25	N/A	N/A

Voltage Interruptions:

Test Level % U _T	Reduction (%)	Duration (periods)	Observation	Meet Performance Criterion
0	100	250	N/A	N/A

Note: "Normal" means no any functions degrade during and after the test.

Performance & Result:

Criterion 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.

Criterion 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

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.

Criterion C: Temporary loss of function is allowed, provided the functions self

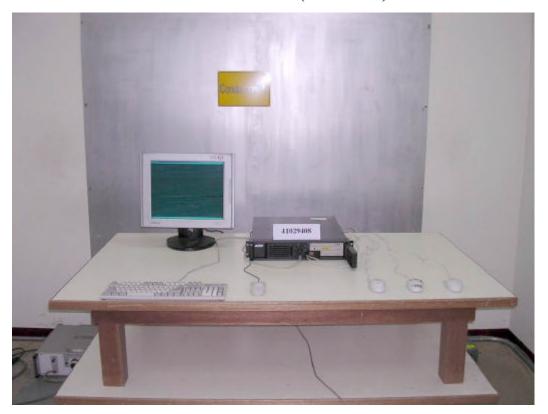
recoverable or can be restored by the operation of controls.

☐ PASS ☐ FAIL	
Observation: Not applicable, because EUT no connect to AC Main Source.	

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APPENDIX I - PHOTOGRAPHS OF TEST SETUP

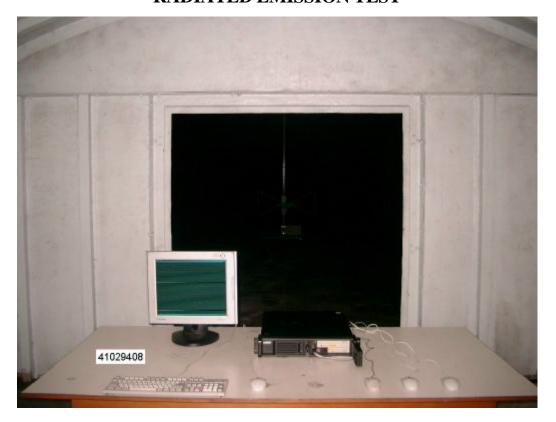
LINE CONDUCTED EMISSION TEST (EN 55022)

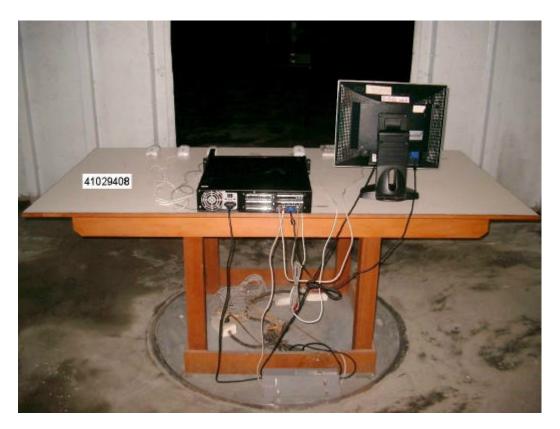




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RADIATED EMISSION TEST





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ELECTROSTATIC DISCHARGE TEST



RADIATED ELECTROMAGNETIC FIELD TEST



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FAST TRANSIENTS/BURST TEST



CONDUCTED DISTURBANCE, INDUCED BY RADIO-FREQUENCY FIELDS TEST



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POWER FREQUENCY MAGNETIC FIELD IMMUNITY TEST



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APPENDIX II -TEST RESULT OF FINAL DATAS

Conducted Emission Plot

Radiated Emission Data

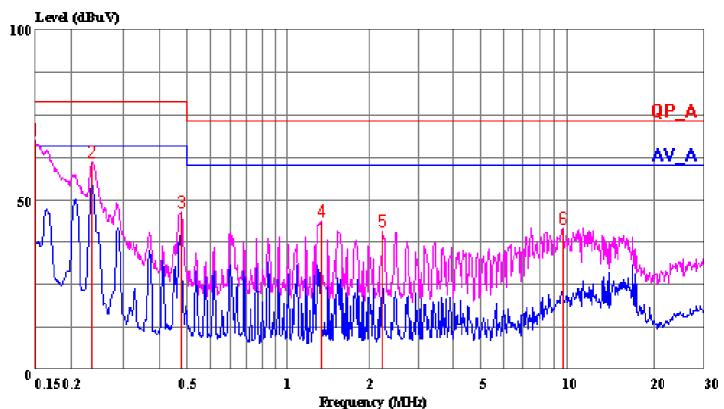
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No. 199, Chung Sheng Road, Hsin Tien City, Taipei,

Taiwan, R.O.C.

Tel:02-2217-0894 Fax:02-2217-1029

Data#: 25 File#: 41029408C.EMI Date: 2004-11-01 Time: 16:28:09



(Conduction A)

Trace: 24 23 Ref Trace:

Condition: LINE

Report No. : 41029408 Test Engr. : ELVIS ZENG

Company : AAEON Technology Inc.

EUT : ARC-625

Test Config : EUT / ALL PERIPHERALS

Type of Test: EN 55022 CLASS A Mode of Op. : NORMAL MODE

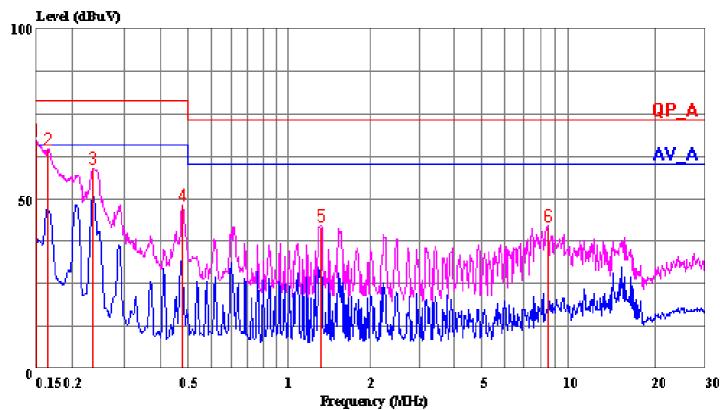
Page: 1

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	———dB	dBuV	dBuV	dB	
1 2 3 4 5	0.476	67.23 60.97 46.01 43.47 40.49	0.11 0.12 0.16	67.34 61.08 46.13 43.63 40.67	79.00 79.00 73.00	-17.92 -32.87 -29.37	Peak Peak Peak
6	9 757	41.17	0.50	41.67	73 00	-31 33	Peak

No. 199, Chung Sheng Road, Hsin Tien City, Taipei, Taiwan, R.O.C.

Tel:02-2217-0894 Fax:02-2217-1029

Data#: 22 File#: 41029408C.EMI Date: 2004-11-01 Time: 16:21:34



(Conduction A)

Trace: 21 20 Ref Trace:

Condition: NEUTRAL Report No. : 41029408 Test Engr. : ELVIS ZENG

Company : AAEON Technology Inc.

EUT : ARC-625

Test Config : EUT / ALL PERIPHERALS

Type of Test: EN 55022 CLASS A Mode of Op. : NORMAL MODE

Page: 1

		Read			Limit	Over	
	Freq	Level	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dВ	dBuV	dBuV	dВ	
1	0.150	66.97	0.11	67.08	79.00	-11.92	Peak
2	0.165	64.55	0.11	64.66	79.00	-14.34	Peak
3	0.235	58.65	0.11	58.76	79.00	-20.24	Peak
4	0.479	47.85	0.12	47.97	79.00	-31.03	Peak
5	1.426	41.71	0.16	41.87	73.00	-31.13	Peak
6	8.592	41.55	0.47	42.02	73.00	-30.98	Peak



Site I

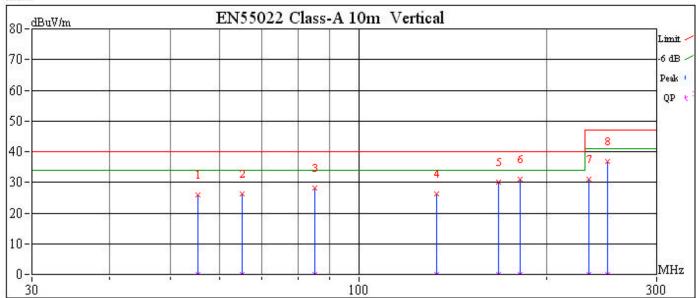
Model Name: ARC-625

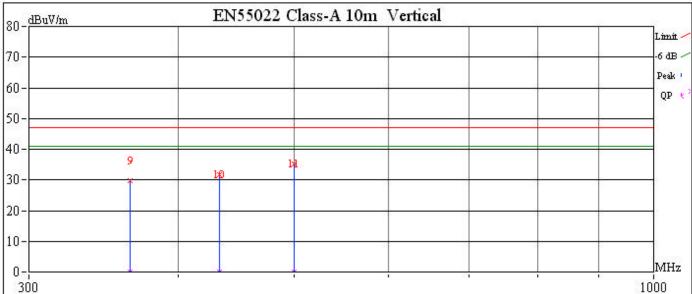
Test Mode: NORMAL MODE

Project No.:41029408 Engineer Name: Elvis Zeng

Date: 2004-10-28

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	Freq(MHz)	Peak(dBuV/m)	QP(dBuV/m)	Margin(dB)	Limit(dBuV/m)	Reading(dBuV)	Factor(dB)	Height	Degree	Comment
1	55.4000	25.83		-14.17	40.00	41.72	-15.89	100	0	
2	65.2000	26.13		-13.87	40.00	42.54	-16.41	100	0	
3	85.1000	28.13	e e	-11.87	40.00	41.69	-13.56	100	0	
4	133.3500	26.27		-13.73	40,00	36.23	-9.96	100	0	
5	167.2500	30.02	.55	-9.98	40.00	41.38	-11.36	100	0	
6	181.6000	31.01	V2	-8.99	40.00	42.88	-11.87	100	0	
7	233.5500	31.16		-15.84	47.00	40.29	-9.13	100	0	
8	250.0000	36.69	io u	-10.31	47.00	44.57	-7.88	100	0	
9	364.8500	29.64		-17.36	47.00	34.32	-4.68	100	0	
0	433.2000	31.68	100	-15.32	47.00	34.37	-2.69	394	0	
1	500.0000	35.10	16 16	-11.90	47.00	36.19	-1.09	394	0	
-			100							
			6	n 1		25		7		

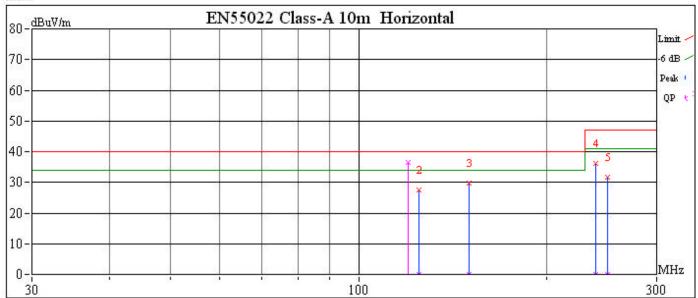


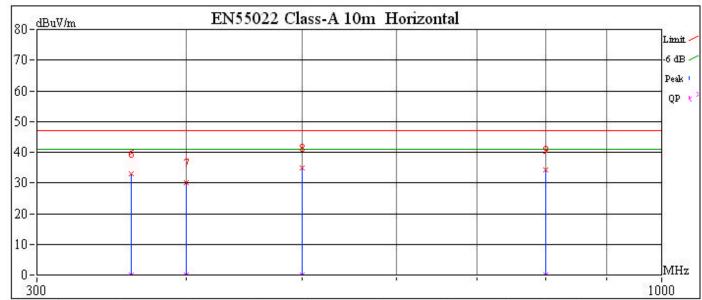
Site I

Model Name: ARC-625 Test Mode: NORMAL MODE Project No.:41029408 Engineer Name: Elvis Zeng

Date: 2004-10-28

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119.9160				Emini(maysin)	Reading(dBuV)	ractor(ab)	neignt	Degree	Comment
evacous accounted	-9.56	36.44	-3.56	40.00	46.00	-9.56	395	0	
125.0000	27.56		-12.44	40.00	37.26	-9.70	395	0	
150.0000	29.61	ë,	-10.39	40.00	40.22	-10.61	395	0	
239.9000	36.27		-10.73	47.00	44.92	-8.65	395	0	
250.0000	31.60	55-	-15.40	47.00	39.48	-7.88	395	0	
359.7500	33.01	y?	-13.99	47.00	37.84	-4.83	395	0	
399.7500	29.94		-17.06	47.00	33.60	-3.66	100	0	
500.0500	34.79	io	-12.21	47.00	35.88	-1.09	100	0	
799.4500	34.36	<i>20</i>	-12.64	47.00	31.77	2.59	100	0	
		6	8		9				
	239.9000 250.0000 359.7500 399.7500 500.0500	239,9000 36.27 250,0000 31.60 359,7500 33.01 399,7500 29.94 500,0500 34.79	239.9000 36.27 250.0000 31.60 359.7500 33.01 399.7500 29.94 500.0500 34.79	239,9000 36,27 -10,73 250,0000 31,60 -15,40 359,7500 33,01 -13,99 399,7500 29,94 -17,06 500,0500 34,79 -12,21	239,9000 36,27 -10,73 47,00 250,0000 31,60 -15,40 47,00 359,7500 33,01 -13,99 47,00 399,7500 29,94 -17,06 47,00 500,0500 34,79 -12,21 47,00	239.9000 36.27 -10.73 47.00 44.92 250.0000 31.60 -15.40 47.00 39.48 359.7500 33.01 -13.99 47.00 37.84 399.7500 29.94 -17.06 47.00 33.60 500.0500 34.79 -12.21 47.00 35.88	239.9000 36.27 -10.73 47.00 44.92 -8.65 250.0000 31.60 -15.40 47.00 39.48 -7.88 359.7500 33.01 -13.99 47.00 37.84 -4.83 399.7500 29.94 -17.06 47.00 33.60 -3.66 500.0500 34.79 -12.21 47.00 35.88 -1.09	239.9000 36.27 -10.73 47.00 44.92 -8.65 395 250.0000 31.60 -15.40 47.00 39.48 -7.88 395 359.7500 33.01 -13.99 47.00 37.84 -4.83 395 399.7500 29.94 -17.06 47.00 33.60 -3.66 100 500.0500 34.79 -12.21 47.00 35.88 -1.09 100	239,9000 36,27 -10,73 47,00 44,92 -8,65 395 0 250,0000 31,60 -15,40 47,00 39,48 -7,88 395 0 359,7500 33,01 -13,99 47,00 37,84 -4,83 395 0 399,7500 29,94 -17,06 47,00 33,60 -3,66 100 0 500,0500 34,79 -12,21 47,00 35,88 -1,09 100 0