CE EMC

TEST REPORT

For

5 Slot Wall Mount Chassis

Model: AMC-250

Trade Name: AAEON

Issued to

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: June 15, 2005

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Page 1

TABLE OF CONTENTS

1	TEST RESULT CERTIFICATION	3
2	EUT DESCRIPTION	4
3		
	3.1 EUT SYSTEM OPERATION	
	3.2 DECISION OF FINAL TEST MODE	5
4	SETUP OF EQUIPMENT UNDER TEST	6
5	5 FACILITIES AND ACCREDITATIONS	7
	5.1 FACILITIES	7
	5.2 LABORATORY ACCREDITATIONS AND LISTINGS	7
6	5 INSTRUMENT AND CALIBRATION	8
	6.1 MEASURING INSTRUMENT CALIBRATION	8
	6.2 TEST AND MEASUREMENT EQUIPMENT	8
7	LINE CONDUCTED & RADIATED EMISSION TEST	11
	7.1 LIMIT	
	 7.2 TEST PROCEDURE OF LINE CONDUCTED EMISSION 7.3 TEST PROCEDURE OF COMMON MODE CONDUCTED EMISSION FOR 	12
	SIGNAL, CONTROL, DC POWER INPUT, OUTPUT PORTS AND	
	OTHERS	
	7.4 TEST PROCEDURE OF RADIATED EMISSION 7.5 TEST RESULTS	
8		
9		
	0 ELECTROSTATIC DISCHARGE (ESD) IMMUNITY TEST	
	11 RADIATED ELECTROMAGNETIC FIELD IMMUNITY TEST	
12	2 FAST TRANSIENTS/BURST IMMUNITY TEST	33
1.	3 SURGE IMMUNITY TEST	35
14	4 CONDUCTED DISTRBANCE/INDUCED RADIO-FREQUENCY FIELD IMMUNITY TEST	37
1	5 POWER FREQUENCY MAGNETIC FIELD IMMUNITY TEST	39
10	6 VOLTAGE DIPS / SHORT INTERRUPTIONS	41
A	APPENDIX I - PHOTOGRAPHS OF TEST SETUP	43
٨	APPENDIY III TEST RESHIT OF FINAL DATAS	52

TEST RESULT CERTIFICATION

AAEON Technology Inc.

Applicant: 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,

Date of Issue: June 15, 2005

Taipei, Taiwan, R.O.C.

Equipment Under Test:

5 Slot Wall Mount Chassis

Trade Name:

AAEON

Model:

AMC-250

Detailed EUT Description:

See Item 2 of this report

Date of Test:

May 20, 2005 ~ May 26, 2005

Applicable Standard	Class/Limit/Criterion	Test Result			
EN 61000-6-3: 2001, including					
CISPR 22: 1997 + A1: 2000 + A2: 2002	Class B	No non-compliance noted			
IEC 61000-3-2: 2000	Class A/B/C/D	N/A			
IEC 61000-3-3: 1994 + A1: 2001	Limit	No non-compliance noted			
EN 61000-6-1: 2001, including					
IEC 61000-4-2: 2001	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 + A2: 2001	Criterion B	No non-compliance noted			
IEC 61000-4-5: 2001	Criterion B	No non-compliance noted			
IEC 61000-4-6: 2001	Criterion A	No non-compliance noted			
IEC 61000-4-8: 2001	Criterion A	N/A			
IEC 61000-4-11: 2001 Criterion B/C/C No non-compliance noted					
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/EEC 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:

David Wang

Manager of Hsintien Laboratory

Compliance Certification Services Inc.

Vince Chiang

Assistant Manager of Hsintien Laboratory

Compliance Certification Services Inc.

2 EUT DESCRIPTION

Product	5 Slot Wall Mount Chassis	
Trade Name	AAEON	
Model	AMC-250	
Housing Type	Metal case	
EUT Power Rating	115VAC~230VAC	
AC Power During Test	230VAC / 50 Hz to Host PC Power Supply	
Power Supply Manufacturer	ENHANCE	
Power Supply Model Number	ENP-1815X	
AC Power Cord Type	Unshielded, 1.8m (Detachable)	
OSC/Clock Frequencies	12MHz; 25MHz; 14.31818MHz; 32.768KHz	

Date of Issue: June 15, 2005

I/O PORT OF EUT

I/O PORT TYPE	Q'TY	TESTED WITH
1). PIO Port	1	1
2). SIO Port	2	2
3). PS/2 one to two adaptor	1	1
4). VIDEO-OUT Port (VGA)	1	1
5). LAN Port	1	1
6). USB 2.0 Port	5	5

Note: Client consigns only one model sample (Model Number is AMC-250) to test.

Page 4 Rev. 00

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.

Date of Issue: June 15, 2005

- 3. Run Winemc.exe and choose "C:/ & E:/ & F:/ & G:/ & H:/ & I:/" to test EUT.
- 4. Press the start menu, select executive and type ping 192.168.0.2 –t(EUT), ping 192.168.0.1 –t(Server Notebook).

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:

Conduction(s):

1.	1024X768, VF=60Hz
2.	800X600, VF=60Hz

Radiation(s):

1.	1024X768, VF=60Hz
2.	800X600, VF=60Hz

2. After the preliminary scan, the following test mode 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.

Page 5 Rev. 00

4 SETUP OF EQUIPMENT UNDER TEST

Setup Diagram

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

Date of Issue: June 15, 2005

Support Equipment

EUT Devices:

No	Equipment	Model #	Serial #	FCC/BSMI ID	Trade Name
1	CPU (600MHz)	Celeron	N/A	N/A	INTEL
2	POWER	ENP-1815X	N/A	N/A	ENHANCE
3	RAM (256MB)	HY5DU56822BT-D43	N/A	N/A	Hynix
4	FLOPPY DISK	FD1231H	N/A	N/A	NEC
5	HDD	ST34310A	N/A	N/A	Seagate
6	Mother Board	AMC-250	N/A	N/A	AAEON

Peripherals Devices:

No	Equipment	Model	Serial No.	FCC/ BSMI ID	Trade Name	Data Cable	Power Cord
1	PS/2 Mouse	M071KC	443029438	DOC BSMI: R41108	DELL	Shielded, 1.8m	N/A
2	PS/2 Keyboard	SK-8110	N/A	DOC BSMI: T3A002	DELL	Shielded, 1.8m	N/A
3	Printer	C20SX	N/A	BSMI ID: 3902E004	EPSON	Shielded, 1.8m	Unshielded, 1.8m
4	Modem	5JEG4033MKO	N/A	5RJTAI-35500-M5-E	TOP- SOLUTION	Shielded, 1.8m	Unshielded, 1.8m
5	Monitor	710V	GS17H9NXA058 58E	DOC BSMI: R33475	SAMSUNG	Shielded, 1.8m with two cores	Unshielded, 1.8m
6	Modem	5JEG4033MKO	N/A	5RJTAI-35500-M5-E	TOP - SOLUTION	Shielded, 1.8m	Unshielded, 1.8m
7	USB 2.0 HDD	F12-U	N/A	BSMI ID: 4912A002	TeraSys	Shielded, 1.8m	N/A
8	USB 2.0 HDD	F12-U	N/A	BSMI ID: 4912A002	TeraSys	Shielded, 1.8m	N/A
9	USB 2.0 HDD	F12-U	N/A	BSMI ID: 4912A002	TeraSys	Shielded, 1.8m	N/A
10	USB 2.0 HDD	F12-U	N/A	BSMI ID: 4912A002	TeraSys	Shielded, 1.8m	N/A
11	USB 2.0 HDD	F12-U	N/A	BSMI ID: 4912A002	TeraSys	Shielded, 1.8m	N/A
12	Server Notebo ok	M285	RD49R-7YTJR- B3C4K-G2JQX- DD3CG	DoC BSMI: R31259	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.

Page 6 Rev. 00

5 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.

Date of Issue: June 15, 2005

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 824.01
USA	FCC	3/10 meter Open Area Test Sites to perform FCC Part 15/18 measurements	FC 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		CNS 13438, CNS 13783-1, CNS 13439	SL2-IN-E-0005 SL2-A1-E-0005 SL2-R1-E-0005 SL2-R2-E-0005
Canada	Industry Canada	RSS212, Issue 1	Canada IC 5742

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

Page 7 Rev. 00

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.

Date of Issue: June 15, 2005

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	09/24/2005		
AMPLIFIER	SCHAFFNER	CPA9231A	3626	10/08/2005		
CABLE	BELDEN	9913	N-TYPE #I2	02/18/2006		
ATTENUATOR	MCL	UNAT-6	AT06-3	10/08/2005		
THERMO- HYGRO METER	TFA	N/A	NO.2	11/09/2005		
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	02/17/2006		
LISN (EUT)	SCHWARZBECK	NSLK 8127	8127382	01/03/2006		
LISN	SOLAR	8012-50-R-24-BNC	8305114	01/03/2006		
BNC CABLE	MIYAZAKI	5D-FB	BNC A1	01/28/2006		
THERMO- HYGRO METER	ТОР	HA-202	9303-1	03/02/2006		
4-Wire ISN	R&S	ENY41	100006	07/01/2005		
2-Wire ISN	R&S	ENY22	100020	07/01/2005		

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

Page 8 Rev. 00



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	12/05/2005			
Schaffner / 5KVA AC Power Source	NSG 1007	55131	No Calibration Required			
Protronix / Digital Power Meter	1201	201091	08/31/2005			

Date of Issue: June 15, 2005

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	04/20/2006				
Sato / Aneroid Barometer	7610-20	89090	09/07/2005				
TOP / Thermo-Hygro meter	HA-202	9303-1	03/02/2006				

Radiated Electr	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	05/16/2006				
AR / Electric Field Probe	FP6001	305650	02/03/2006				
Boonton / RF Voltmeter	9200B	328001AE	02/23/2006				
BNC / Function Generator	625A	25451	02/17/2006				
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	03/02/2006				

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	11/09/2005			
Schaffner / Capacitive Clamp	N/A	N/A	No Calibration Required			

Page 9 Rev. 00

Surge Immunity Test Site (EN 61000-4-5)							
Manufacturer/Type Model No. Serial No. Cal. Due							
Schaffner / Surger Generator	BEST EMC V2.3	200031A024SC	11/09/2005				
Schaffner / Signal and Data Lines Coupling Network	CDN118	19328	No Calibration Required				

Date of Issue: June 15, 2005

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 M216	19294	08/02/2005			
Schaffner / EM Clamp	KEMZ 801	19227	02/23/2006			
Schaffner / CDN	CDN A800	17885	08/02/2005			
Schaffner / CDN	CDN T002	15881	01/13/2006			
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	01/19/2006					

Voltage Dips/Short Interruption and Voltage Variation Immunity test (EN 61000-4-11)								
Manufacturer/Type Model No. Serial No. Cal. Duc								
Schaffner / Dips/Interruption/Variations Tester	BEST EMC V2.3	200031A024SC	11/09/2005					
Protronix / Digital Power Meter	1201	201091	08/31/2005					

Page 10 Rev. 00

7 LINE CONDUCTED & RADIATED EMISSION TEST

Date of Issue: June 15, 2005

7.1 LIMIT

Maximum permissible level of Line Conducted Emission

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

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

<u>Maximum permissible level of Common Mode Conducted Emission</u> (Signal, control, dc power input, output ports and others)

CLASS B

FREQUENCY	Current Limit (dBuA)		dBuA to $dBuV = +34dB$		
(MHz)	Quasi-peak Average		Quasi-peak	Average	
0.15 - 0.5	40 – 30	30 – 20	74 – 64	64 – 54	
0.5 - 30.0	30	20	64	54	

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

Maximum permissible level of Radiated Emission measured at 10 meter

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

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

Page 11 Rev. 00

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 CISPR 22 (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.

Date of Issue: June 15, 2005

- Support equipment, if needed, was placed as per CISPR 22.
- All I/O cables were positioned to simulate typical actual usage as per CISPR 22.
- 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.

Page 12 Rev. 00

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	56	-12.50	Q	L1

Date of Issue: June 15, 2005

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 SIGNAL, CONTROL, DC POWER INPUT, OUTPUT PORTS AND OTHERS

- When current probe was selected for the measurement of unscreened cable, the EUT was placed 40cm above ground reference plane. A CDN was inserted into the cable and connected directly to the reference ground plane.
- When current probe was selected for the measurement of screened cable, the EUT was placed 40cm above ground reference plane. A 150 ohm resistor was connected from the outside surface of the shield to ground by breaking the insulation of the EUT cable. A ferrite tube or clamp was applied between 150 ohm connection and AE.
- The port of the EUT was connected to the remote side support equipment through the CDN/Current Probe and communication in normal condition.
- Making an 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.

Page 13 Rev. 00

• The following test mode were scanned during the preliminary test:

Mode(s):

- 1. 10Mbps
- 2. 100Mbps
- 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.

Mode: 1.

Data Sample:

Freq. MHz	Read Level dBuV	Factor dB	Level dBuV	Limit dBuV	Over Limit dB	Reading Type (P/Q/A)
x.xx	42.95	0.55	43.50	56	-12.50	Q

Freq. = Emission frequency in MHz

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

Level = Read Level + Factor

Limit = Limit stated in standard. (dBuA + 34dB = dBuV)

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)

Page 14 Rev. 00

Date of Issue: June 15, 2005

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.

Date of Issue: June 15, 2005

- Support equipment, if needed, was placed as per CISPR 22.
- All I/O cables were positioned to simulate typical usage as per CISPR 22.
- 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.
- The antenna was placed at 10 meter away from the EUT as stated in CISPR 22. 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.
- 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.

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.
- 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 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.
- The test data of the worst-case condition(s) was recorded.

Page 15 Rev. 00

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	-3.8	30	14	12.2	Q	Н

Date of Issue: June 15, 2005

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)

Page 16 Rev. 00

7.5 TEST RESULTS

Line Conducted Emission

Model: AMC-250 **Test Mode:** Mode 1

Temperature: 24 °C **Humidity:** 50% 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.)

Date of Issue: June 15, 2005

Six Highest Conducted Emission Readings								
Frequency	Range Inve	estigated		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)	
0.258	38.45	0.17	38.62	61.51	-22.89	P	L1	
13.479	38.71	1.04	39.75	60.00	-20.25	P	L1	
21.147	38.49	1.55	40.04	60.00	-19.96	P	L1	
0.558	34.78	0.22	35.00	56.00	-21.00	P	L2	
13.479	38.45	1.19	39.65	60.00	-20.35	P	L2	
20.594	40.01	1.71	41.72	60.00	-18.28	P	L2	

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

Page 17 Rev. 00

Common Mode Conducted Emission

Model: AMC-250 Test Mode: Mode 1

Temperature: 24 °C **Humidity:** 50% RH

Test Results: Passed Tested by: Elvis Zeng

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

Date of Issue: June 15, 2005

Six Highest Conducted Emission Readings								
Frequency Range Investigated					150 kHz to 30 MHz			
Freq (MHz)	Read Level (dBuV)	Factor (dB)	Lev (dBı		Limit Line (dBuV)	Over Limit (dB)	Reading Type (P/Q/A)	
7.486	53.71	10.29	64.	00	84.00	-20.00	P	
8.501	49.66	10.28	59.	94	84.00	-24.06	P	
9.966	63.85	10.27	74.	12	84.00	-9.88	P	
9.966	17.41	10.27	27.	68	74.00	-46.32	A	
12.449	53.02	10.30	63.	32	84.00	-20.68	P	
13.695	46.50	10.31	56.	81	84.00	-27.19	P	
19.950	58.33	10.35	68.	68	84.00	-15.32	P	

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

 $Limit\ line\ (dBuA) + 34dB = Limit\ line\ (dBuV).$

The relaxation of 10dB over the frequency range of 6MHz to 30 MHz is according to clause 5.2 table 4 note 3 of CISPR 22 until b reviewed no later than three years after the date of withdrawal.

Page 18 Rev. 00

Radiated Emission

Model: AMC-250 Test Mode: Mode 1

Temperature: 28 °C **Humidity:** 40% RH

Test Results: Passed Tested by: Elvis Zeng

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

Date of Issue: June 15, 2005

Six Highest Radiated Emission Readings								
Frequency 1	Range Inves	stigated	30 MHz to 1000 MHz at 10m					
Freq (MHz)	Amptd (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Reading (dBuV)	Factor (dB/m)	Reading Type (P/Q/A)	Pol. (H/V)	
166.4500	26.44	-3.56	30.00	37.80	-11.36	Q	${f V}$	
249.8000	33.90	-3.10	37.00	41.80	-7.90	Q	${f V}$	
299.3900	33.63	-3.37	37.00	40.36	-6.73	P	\mathbf{V}	
299.5500	33.99	-3.01	37.00	40.72	-6.73	P	Н	
399.5330	33.71	-3.29	37.00	37.30	-3.59	Q	H	
480.0500	33.37	-3.63	37.00	34.92	-1.55	P	Н	

NOTE: None.

Page 19 Rev. 00

8 POWER HARMONICS TEST

Port : AC Power Port
Basic Standard : EN 61000-3-2

Limits : CLASS A; CLASS D

 $\begin{array}{cccc} \textbf{Tested by} & : & N/A \\ \textbf{Temperature} & : & N/A \\ \textbf{Humidity} & : & N/A \\ \end{array}$

Limit:

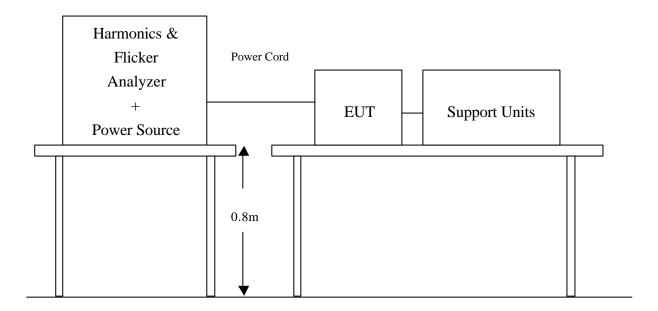
Limits for	Limits for Class A equipment					
Harmonics	Max. permissible					
Order	harmonics current					
n	A					
Od	d harmonics					
3	2.30					
5	1.14					
7	0.77					
9	0.40					
11	0.33					
13	0.21					
15<=n<=39	0.15x15/n					
Eve	en harmonics					
2	1.08					
4	0.43					
6	0.30					
8<=n<=40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

	Limits for Class D equipment								
Harmonics	Max. permissible harmonics	Max. permissible							
Order	current per watt mA/W	harmonics current							
n		A							
	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							

Date of Issue: June 15, 2005

Page 20 Rev. 00

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: According to clause 7 of EN 61000-3 75W or less, no limits apply. The test	

Page 21 Rev. 00

Date of Issue: June 15, 2005

Date of Issue: June 15, 2005

9 POWER VOLTAGE FLUCTUATION / FLICKER TEST

Port : AC Power Port
Basic Standard : EN 61000-3-3

Limits : § of EN 61000-3-3

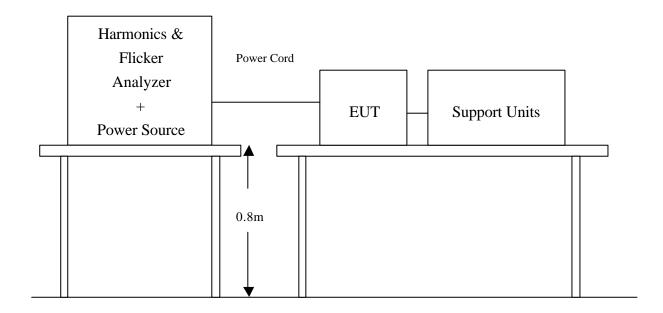
Tested by : Kevin Chang

Temperature : 23°C **Humidity** : 45%

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:



Page 22 Rev. 00

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 most unfavorable sequence of voltage changes under normal operating conditions.

Date of Issue: June 15, 2005

b. 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: (See Appendix II for details)

TEST PARAMETER	MEASUREMENT VALUE	LIMIT	RESULT
P_{st}	0.138	1.0	Pass
P_{lt}	0.061	0.65	Pass
T _{dt} (ms)	0.0	500	Pass
d _{max} (%)	0.65	4%	Pass
dc (%)	0.38	3.3%	Pass

Note: None.

Page 23 Rev. 00

10 ELECTROSTATIC DISCHARGE (ESD) IMMUNITY TEST

Date of Issue: June 15, 2005

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)

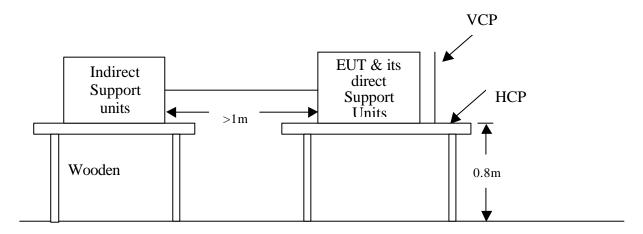
Tested by : Kevin Chang

Temperature : 23°C **Humidity** : 46%

Pressure : 1007mbar

Block Diagram of Test Setup:

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



Ground Reference Plane

Page 24 Rev. 00

Test Procedure:

- 1. The EUT was located 0.1 m minimum from all sides 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: June 15, 2005

- 3. A scroll 'H' test program was loaded and executed in Windows XP mode.
- 4. The EUT sent above message to LCD Panel of Notebook PC at remote side and related peripherals through the test.
- 5. Active the communication function if the EUT with such port(s).
- 6. As per the requirement of IEC 61000-4-2; applying direct contact discharge each point at minimum 20 discharges (10 positive and 10 negative) if applicable, for the points can't be applied direct contact discharge then the indirect discharge shall be applied. One of the test points shall be subjected to at least 20 indirect discharge (contact) to the front edge of horizontal coupling plane and each side of EUT via vertical coupling plane.
- 7. 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 20 single air discharges shall be applied.
- 8. The application of ESD to the contact of open connectors is not required.
- 9. The EUT direct connection units also need to be applied ESD at the port of EUT cable connected.
- 10. Putting a mark on EUT to show tested points. The following test condition was followed during the tests.

Note: As per 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 10 /Point	$\pm 4 \text{ kV}$	Contact Discharge	Pass
Mini 10 /Point	$\pm 4 \text{ kV}$	Indirect Discharge HCP (Front)	Pass
Mini 10 /Point	$\pm 4 \text{ kV}$	Indirect Discharge VCP (Right)	Pass
Mini 10 /Point	$\pm 4 \text{ kV}$	Indirect Discharge VCP (Left)	Pass
Mini 10 /Point	$\pm 4 \text{ kV}$	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)

Page 25 Rev. 00

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.					
Ol	Observation: No function degraded during the tests.					

Date of Issue: June 15, 2005

Page 26 Rev. 00

The Tested Points of EUT

Photo 1 of 5



Photo 2 of 5



Page 27 Rev. 00

Photo 3 of 5



Photo 4 of 5



Page 28 Rev. 00

Photo 5 of 5



Page 29 Rev. 00

11 RADIATED ELECTROMAGNETIC FIELD IMMUNITY TEST

Date of Issue: June 15, 2005

Port : Enclosure

Basic Standard: IEC/EN 61000-4-3

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

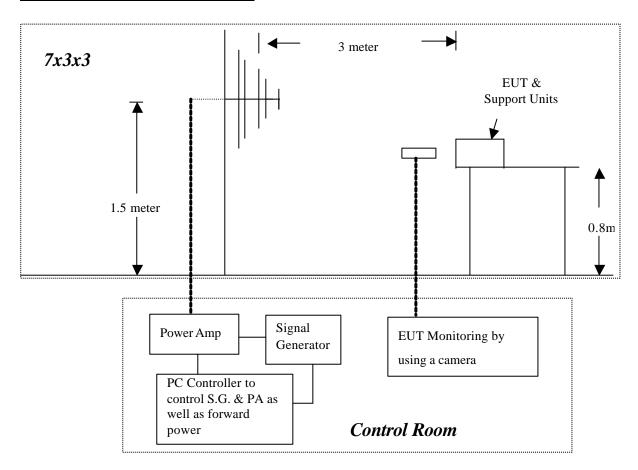
Performance Criterion: A (Standard Required)

Tested by : Kevin Chang

Temperature : 23°C **Humidity** : 46%

Pressure: 1007mbar

Block Diagram of Test Setup:



Page 30 Rev. 00

Test Procedure:

1. The EUT was located at the edge of supporting table keep 3 meter away from transmitting antenna, it just the calibrated square area of field uniformity. The support units were located outside of the uniformity area, but the cable(s) connected with EUT were exposed to the calibrated field as per IEC/EN 61000-4-3.

Date of Issue: June 15, 2005

- 2. Set the testing parameters of RS test software per IEC/EN 61000-4-3.
- 3. Performed the pre-test at each side of EUT with double specified level (6V/m) at 4% steps.
- 4. From the result of pre-test in step 3, choice the worst side of EUT for final test from 80 MHz to 1000 MHz at 1% steps.
- 5. Recorded the test result in following table.

Preliminary test conditions:

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/m	Yes	Н	Front	Pass
80-1000	3V/m	Yes	V	Front	Pass
80-1000	3V/m	Yes	Н	Right	Pass
80-1000	3V/m	Yes	V	Right	Pass
80-1000	3V/m	Yes	Н	Back	Pass
80-1000	3V/m	Yes	V	Back	Pass
80-1000	3V/m	Yes	Н	Left	Pass
80-1000	3V/m	Yes	V	Left	Pass

Page 31 Rev. 00

Performance & Result:

∑ Cri	terion 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.
Cri	iterion 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.
Cri	iterion 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.		

Date of Issue: June 15, 2005

Page 32 Rev. 00

12 FAST TRANSIENTS/BURST IMMUNITY TEST

Port : AC Power Port and RJ45 Port

Basic Standard: IEC/EN 61000-4-4

Requirements : $\pm 1 \text{ kV for AC Power Port}$

±0.5kV for RJ45 Port

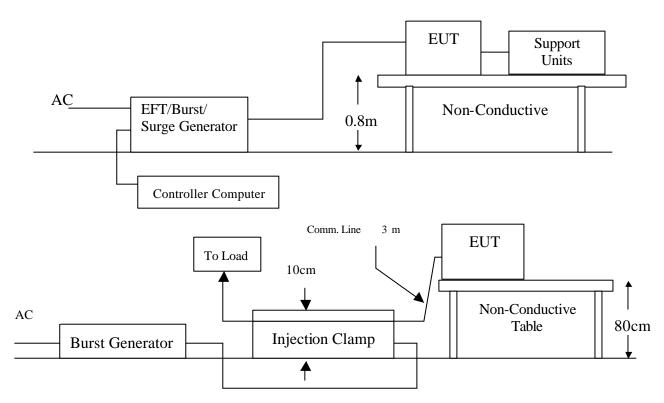
Performance Criteria: B (Standard Required)

Tested by : Kevin Chang

Temperature : 23°C **Humidity** : 45%

Pressure : 1007mbar

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.

Page 33 Rev. 00

Date of Issue: June 15, 2005

Test conditions:

Impulse Frequency: 5kHz
Tr/Th: 5/50ns
Burst Duration: 15ms
Burst Period: 300ms

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
RJ45	±0.5	Clamp	Pass

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.
\boxtimes	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.
O	bservation:	The mouse cursor flickered during test and could become normal after test stop.

Page 34 Rev. 00

Date of Issue: June 15, 2005

13 SURGE IMMUNITY TEST

Port : AC Power Port
Basic Standard : IEC/EN 61000-4-5

Requirements : $\pm 1 \text{ kV}$ (Line to Line) for AC Power Port

± 2 kV (Line to Ground) for AC Power Port

Date of Issue: June 15, 2005

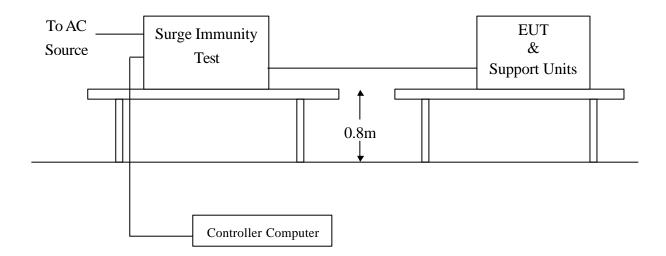
Performance Criteria: B (Standard Required)

Tested by : Kevin Chang

Temperature : 23°C **Humidity** : 45%

Pressure : 1007mbar

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.

Page 35 Rev. 00

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	Pass
L1-PE	2	Positive	Capacitive	Pass
L2-PE	2	Positive	Capacitive	Pass
L1-L2	1	Negative	Capacitive	Pass
L1-PE	2	Negative	Capacitive	Pass
L2-PE	2	Negative	Capacitive	Pass

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.
(Observation	• Where normal functioning of LAN can't be achieved because of the impact of CDN on the EUT, no test be required.

Page 36 Rev. 00

Date of Issue: June 15, 2005

14 CONDUCTED DISTRBANCE/INDUCED RADIO-FREQUENCY FIELD IMMUNITY TEST

Port : AC Power Port and RJ45 Port

Basic Standard: IEC/EN 61000-4-6

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

Injection Method : CDN-M3 for AC Power Port

CDN-T4 for RJ45 Port

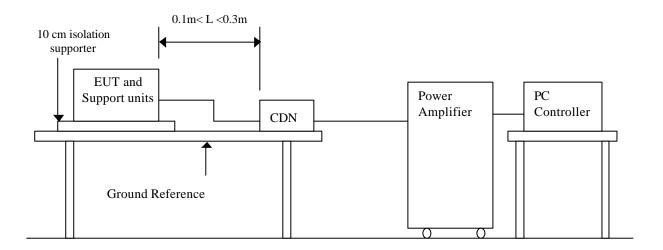
Performance Criterion: A (Standard Required)

Tested by : Kevin Chang

Temperature : 23°C **Humidity** : 46%

Pressure : 1007mbar

Block Diagram of Test Setup:



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

Page 37 Rev. 00

Date of Issue: June 15, 2005



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: June 15, 2005

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.

	☐ FAIL	
Observation: No function degraded dur	ing the tests.	

recoverable or can be restored by the operation of controls.

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

Page 38 Rev. 00

15 POWER FREQUENCY MAGNETIC FIELD IMMUNITY TEST

Date of Issue: June 15, 2005

Port : Enclosure

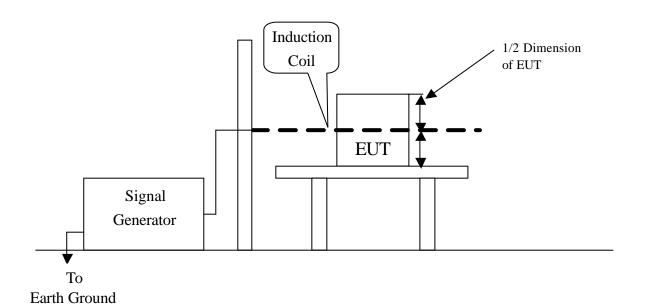
Basic Standard: IEC/EN 61000-4-8

Requirements : 3 A/m

Performance Criterion: A (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 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.

Page 39 Rev. 00



Test conditions:

Field Strength: 3A/m Power Freq.: 50Hz Orientation: X, Y, Z

Orientation	Field	Result (Pass/Fail)	Remark

Date of Issue: June 15, 2005

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:	The EUT is not containing any component that is susceptible to a 50 Hz or 60 Hz magnetic field. Therefore, this requirement is not applicable to the EUT.

Page 40 Rev. 00

16 VOLTAGE DIPS / SHORT INTERRUPTIONS

Port : AC Power Port

Basic Standard: IEC/EN 61000-4-11

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

Date of Issue: June 15, 2005

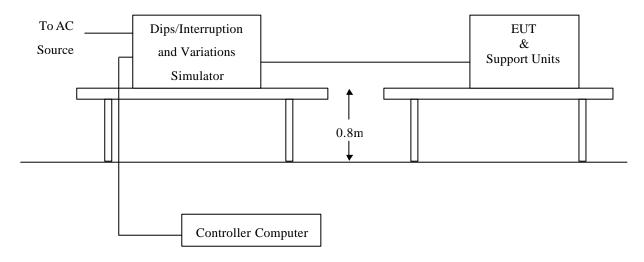
Test Interval : Min. 10 sec.
Tested by : Kevin Chang

Temperature : 23°C **Humidity** : 45%

Pressure : 1007mbar

Test Level % U _T	Reduction (%)	Duration (Periods)	Performance Criteria
70	30	0.5	В
40	60	5	C
< 5	> 95	250	C

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. Set the parameter of tests and then Performed the test software of test simulator.
- 3. Changed Condition to occur at 0 degree crossover point of the voltage waveform.
- 4. Recorded the test result in test record form.

Page 41 Rev. 00

Test conditions:

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

Test Level % U _T	Reduction (%)	Duration (periods)	Observation	Meet Performance Criteria
< 5	> 95	250	EUT shut down, but can be auto recovered as the events disappear.	С
70	30	0.5	Normal	A
40	60	5	Normal	A

Date of Issue: June 15, 2005

Normal: 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 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: No function degraded during	g the tests.	

Page 42 Rev. 00

APPENDIX I - PHOTOGRAPHS OF TEST SETUP LINE CONDUCTED EMISSION TEST





Page 43 Rev. 00

COMMON MODE CONDUCTED TEST





Page 44 Rev. 00

RADIATED EMISSION TEST





Page 45 Rev. 00

POWER HARMONIC & VOLTAGE FLUCTUATION / FLICKER TEST





Page 46 Rev. 00

ELECTROSTATIC DISCHARGE TEST

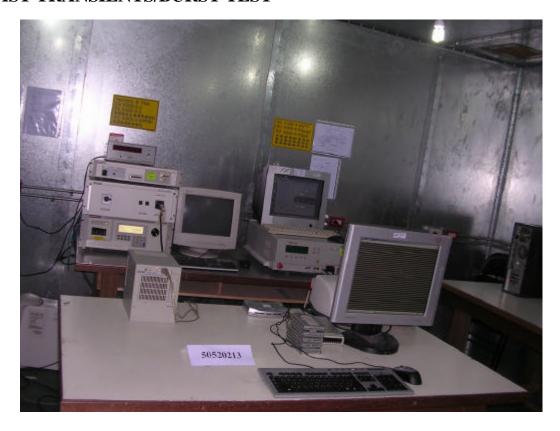


RADIATED ELECTROMAGNETIC FIELD TEST



Page 47 Rev. 00

FAST TRANSIENTS/BURST TEST



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



Page 48 Rev. 00

SURGE IMMUNITY TEST



CONDUCTED DISTURBANCE, INDUCED BY RADIO-FREQUENCY FIELDS TEST

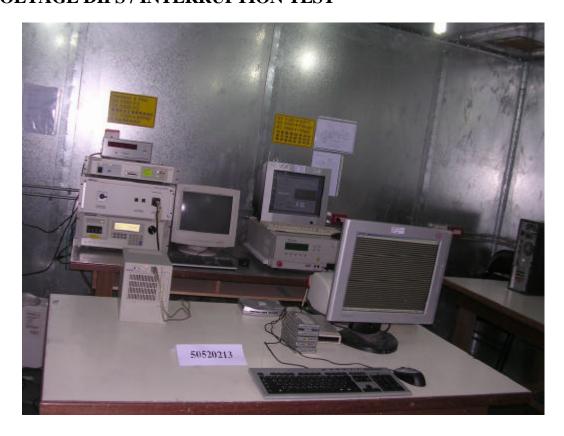


Page 49 Rev. 00

CONDUCTED DISTURBANCE, INDUCED BY RADIO-FREQUENCY FIELDS TEST (IEC 61000-4-6 FOR I/O)



VOLTAGE DIPS / INTERRUPTION TEST



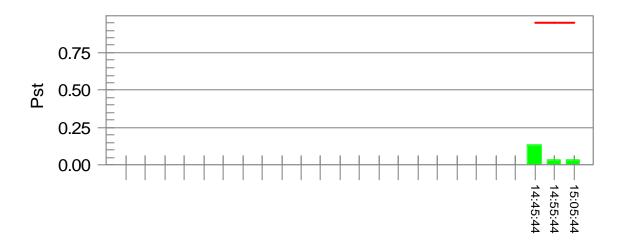
Page 50 Rev. 00



APPENDIX II – TEST RESULT OF EN 61000-3-3

Test Result: Pass Status: Test Completed

Pst_i and limit line European Limits



Time is too short for Plt plot

Parameter values recorded during the test:

Vrms at the end of test (Volt):	229.88			
Highest dt (%):	0.56	Test limit (%):	3.14	Pass
Time(mS) > dt:	0.0	Test limit (mS):	500.0	Pass
Highest dc (%):	0.38	Test limit (%):	3.14	Pass
Highest dmax (%):	0.65	Test limit (%):	3.80	Pass
Highest Pst (10 min. period):	0.138	Test limit:	0.950	Pass
Highest Plt (2 hr. period):	0.061	Test limit:	0.617	Pass

Page 51 Rev. 00

APPENDIX III – TEST RESULT OF FINAL DATAS

Line Conducted Emission

Date of Issue: June 15, 2005

Common Mode Conducted Emission

Radiated Emission

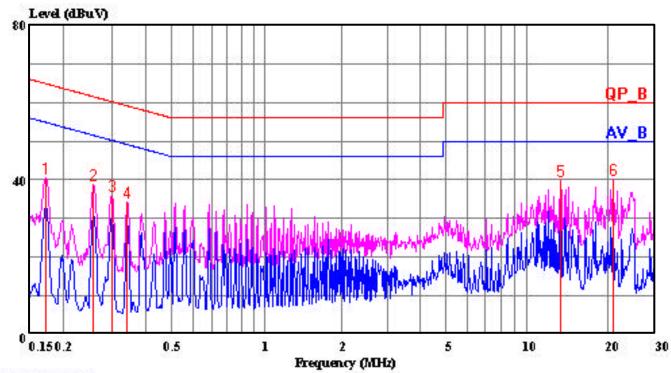
Page 52 Rev. 00



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

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

Data#: 14 File#: 50520213CA.EMI Date: 2005-05-21 Time: 15:46:11



(Conduction A)

Trace: 13 12 Ref Trace:

Condition: LINE

Report No. : 50520213 Test Engr. : ELVIS ZENG

: AAEON Technology Inc. Company

: AMC-250 EUT

Test Config : EUT / ALL PERIPHERALS Type of Test: EN 55022 CLASS B

Mode of Op. : 1024X768, VF=60Hz (Worst)

			Page:	1
Pead	T imi+	0,,,,,,,,		

		Read			Limit	Over	
	Freq	Level	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.171	40.27	0.14	40.41	64.90	-24.49	Peak
2	0.258	38.45	0.17	38.62	61.51	-22.89	Peak
3	0.300	35.96	0.19	36.15	60.24	-24.09	Peak
4	0.343	34.19	0.19	34.38	59.13	-24.75	Peak
5	13.479	38.71	1.04	39.75	60.00	-20.25	Peak
6	21.147	38.49	1.55	40.04	60.00	-19.96	Peak

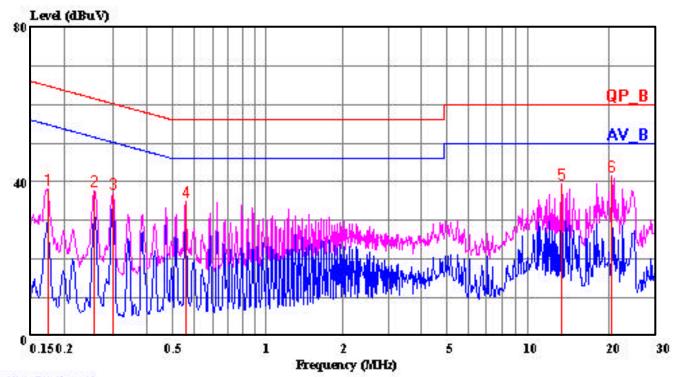


No. 199, Chung Sheng Road, Hsin Tien City, Taipei, Taiwan, R.O.C.

Page: 1

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

Data#: 11 File#: 50520213CA.EMI Date: 2005-05-21 Time: 15:39:03



(Conduction A)

Trace: 10 9 Ref Trace:

Condition: NEUTRAL Report No. : 50520213 Test Engr. : ELVIS ZENG

: AAEON Technology Inc. Company

EUT : AMC-250

Test Config : EUT / ALL PERIPHERALS Type of Test: EN 55022 CLASS B

Mode of Op. : 1024X768, VF=60Hz (Worst)

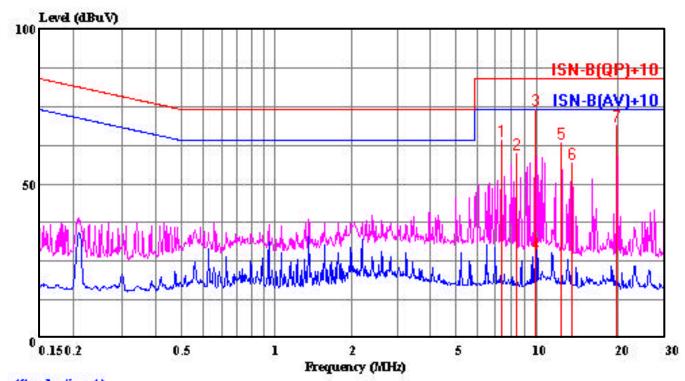
	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.173	37.84	0.13	37.97	64.81	-26.84	Peak
2	0.258	37.72	0.14	37.86	61.51	-23.65	Peak
3	0.300	36.89	0.15	37.04	60.24	-23.20	Peak
4	0.558	34.78	0.22	35.00	56.00	-21.00	Peak
5	13.479	38.45	1.19	39.65	60.00	-20.35	Peak
6	20.594	40.01	1.71	41.72	60.00	-18.28	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#: 50520213CA.EMI Date: 2005-05-21 Time: 16:06:39



(Conduction A)

Trace: 19 18 Ref Trace:

Condition: COMMON
Report No. : 50520213
Test Engr. : ELVIS ZENG

Company : AAEON Technology Inc.

EUT : AMC-250

Test Config : EUT / ALL PERIPHERALS

Type of Test: EN 55022 CLASS B

Mode of Op. : ISN 10Mbps (Worst)

Page:	1
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		Read			Limit	Over	
	Freq	Level	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dВ	dBuV	dBuV	dВ	
1	7.486	53.71	10.29	64.00	84.00	-20.00	Peak
2	8.501	49.66	10.28	59.94	84.00	-24.06	Peak
3	9.966	63.85	10.27	74.12	84.00	-9.88	Peak
4	9.966	17.41	10.27	27.68	74.00	-46.32	Average
5	12.449	53.02	10.30	63.32	84.00	-20.68	Peak
6	13.695	46.50	10.31	56.81	84.00	-27.19	Peak
7	19.950	58.33	10.35	68.68	84.00	-15.32	Peak



Site I

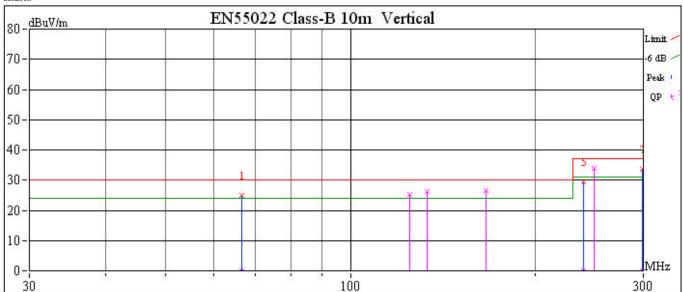
Custom Name: AAEON Technology Inc.

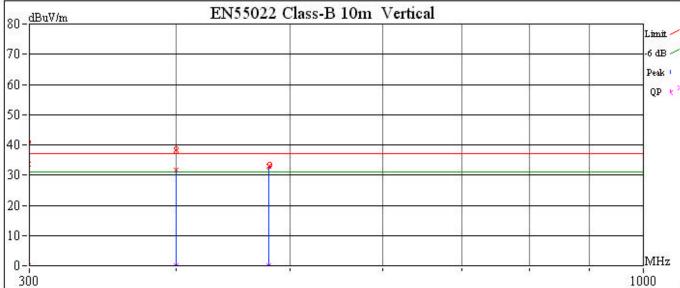
Model Name: AMC-250

Test Mode: 1024X768, VF=60Hz (Worst)

Project No.: 50520213 Engineer Name: Elvis Zeng Date: 2005-05-20

Index:





66.5500 25.1000 33.1500 66.4500 39.9900	-9.74 -9.99	25.36 26.31	35 S		41.26 35.10	-16.40 -9.74	1 336737	0	
33.1500 66.4500 39.9900	-9.99	26.31	30 3	30.00	35.10	0.74	11120		
66.4500 39.9900	5	89 TECHNOL	3 80			-9.74	100	0	
39.9900	-11.36		-5.03	30.00	36.30	-9.99	100	0	
	THE STATE OF THE S	26.44	-3.56	30.00	37.80	-11.36	100	0	
5232 2 200	29.29	A	-7.71	37.00	37.94	-8.65	100	0	
49.8000	-7.90	33.90	-3.10	37.00	41.80	-7.90	100	0	
99.3900	33.63	76	-3.37	37.00	40.36	-6.73	100	0	
00.0500	31.82	/2 /a	-5.18	37.00	35.40	-3.58	100	0	
80.0500	32.93		-4.07	37.00	34.48	-1.55	100	0	
	55								
		32.93	32.93	32.55	32.93	32.93	32.55	3293	32.55



Site I

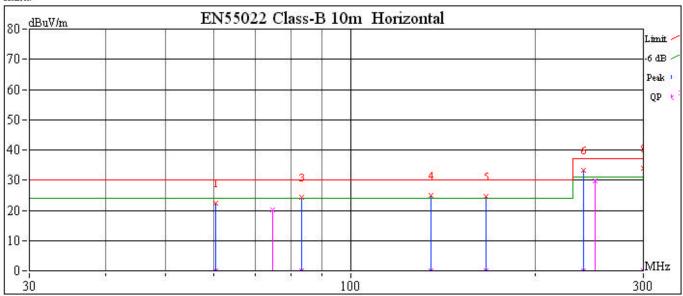
Custom Name: AAEON Technology Inc.

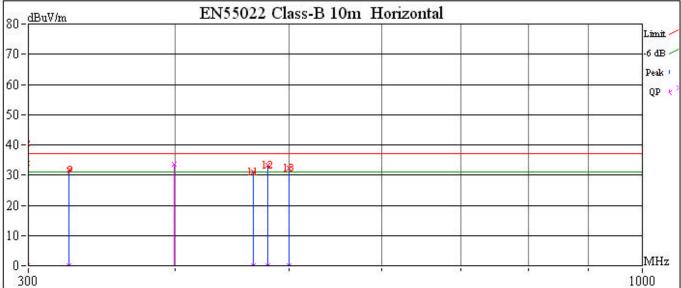
Model Name: AMC-250

Test Mode: 1024X768, VF=60Hz (Worst)

Project No.: 50520213 Engineer Name: Elvis Zeng Date: 2005-05-20

Index:





	Freq(MHz)	Peak(dBuV/m)	QP(dBuV/m)	Margin(dB)	Limit(dBuV/m)	Reading(dBuV)	Factor(dB)	Height	Degree	Comment
1	60.3500	22.36		-7.64	30.00	39.05	-16.69	100	0	
2	74.7060	-15.51	20.29	-9.71	30.00	35.80	-15.51	100	0	
3	83.3000	24.48		-5.52	30.00	38.48	-14.00	100	0	
4	135.1900	25.00		-5.00	30.00	35.05	-10.05	100	0	
5	166.4800	24.54		-5.46	30.00	35.91	-11.37	100	0	
6	240.0020	33.14		-3.86	37.00	41.79	-8.65	100	0	
7	250.0020	-7.88	29.72	-7.28	37.00	37.60	-7.88	100	0	
8	299.5500	33.99	V2	-3.01	37.00	40.72	-6.73	100	0	
9	325.0500	31.77		-5.23	37.00	37.66	-5.89	100	0	
0	399.5330	-3.59	33.71	-3.29	37.00	37.30	-3.59	100	0	
1	466.1500	31.03		-5.97	37.00	32.88	-1.85	100	0	
2	480.0500	33.37		-3.63	37.00	34.92	-1.55	100	0	
3	500.0500	32.27	86 86	-4.73	37.00	33.40	-1.13	100	0	