FCC 47 CFR PART 18

Date of Issue: November 17, 2005

TEST REPORT

For

Medical Station

Model: ONYX-173D; ONYX-153D

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.

No. 165, Chunghsen Road, Hsintien City Taipei Hsien, Taiwan TEL: (02) 2217-0894

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TABLE OF CONTENTS

1 1	TEST RESULT CERTIFICATION	3
2 H	EUT DESCRIPTION	4
	TEST METHODOLOGY	
<i>J</i>		••••••••••
3.		5
3.	2 DECISION OF FINAL TEST MODE	5
4 8	SETUP OF EQUIPMENT UNDER TEST	6
5 I	FACILITIES AND ACCREDITATIONS	7
5.		7
5.		7
6 I	INSTRUMENT AND CALIBRATION	8
6.	.1 MEASURING INSTRUMENT CALIBRATION	8
6.		
7 I	LINE CONDUCTED & RADIATED EMISSION TEST	9
7.		9
7.	2 TEST PROCEDURE OF LINE CONDUCTED EMISSION	10
7.		
7.		
APP	PENDIX I - PHOTOGRAPHS OF TEST SETUP	16

1 TEST RESULT CERTIFICATION

Applicant: AAEON Technology Inc.

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

Date of Issue: November 17, 2005

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: Medical Station

Trade Name: AAEON

Model: ONYX-173D; ONYX-153D

Detailed EUT Description: See Item 2 of this report

Date of Test: October 26, 2005 ~ November 10, 2005

Applicable Standard	Class / Limit	Test Result				
FCC Part 18		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 FCC Rules and Regulations Part 18 and the measurement procedures were according to ANSI C63.4. This said equipment in the configuration described in this report shows the maximum emission levels emanating from equipment are within the compliance requirements.

Approved by:

David Wang

Manager of Hsintien Laboratory

Compliance Certification Services Inc.

Reviewed by:

Vince Chiang

Assistant Manager of Hsintien Laboratory Compliance Certification Services Inc.

Compitative Certification Services Inc.

Page 3 Rev. 00

2 EUT DESCRIPTION

Product	Medical Station
Trade Name	AAEON
Model	ONYX-173D; ONYX-153D
Housing Type	Plastic w/ metal plate
EUT Power Rating	15VDC from AC Adaptor
AC Power During Test	120VAC / 60Hz to AC Adaptor
AC Adaptor Manufacturer	FSP
AC Adaptor Model Number	FSP105-AGB
AC Adaptor Power Rating	I/P: 100-240VAC 50-60Hz O/P: 15VDC
AC Power Cord Type	Unshielded, 1.8m (Non-detachable)
DC Power Cord Type	Unshielded, 1.9m (Detachable, with a core)
OSC/Clock Frequencies	14.31818MHz; 25MHz; 32.768kHz

Date of Issue: November 17, 2005

EUT DIFFERENCE

	Model Name	Differences (Faceplate)	Differences (Panel M/N)	Tested (Checked)
Original	ONYX-173D	17" TFT LCD	CLAA17EA-07Y	\boxtimes
Additional	ONYX-153D	15" TFT LCD	CLAA150XP03	\boxtimes

I/O PORT OF EUT

I/O PORT TYPE	Q'TY	TESTED WITH
1). PIO Port	1	1
2). SIO Port	3	3
3). PS/2 Keyboard Port	1	1
4). PS/2 Mouse Port	1	1
5). VIDEO-OUT Port (VGA)	1	1
6). AUDIO IN Port	2	2
7). Earphone Port	1	1
8). Microphone Port	1	1
9). LAN Port	1	1
10). USB Port	5	5
11). S-VIDEO OUT Port	1	1
12). CF Slot	1	1
13). SD Slot	1	1
14). SM Slot	1	1
15). Memory Stick Slot	1	1

Note: None.

Page 4 Rev. 00

3 TEST METHODOLOGY

3.1 EUT SYSTEM OPERATION

- 1. Windows 2000 boots system.
- 2. Run Emctest.exe to activate all peripherals and display "H" pattern on monitor screen.

Date of Issue: November 17, 2005

- 3. Run Winemc.exe and choose "E:/ & F:/ & G:/ & H:/ & I:/ & J:/ & K:/ & L:/ & I:/" to test EUT.
- 4. Run Winemc.exe and choose media player to play music.
- 5. Press the start menu, select executive and type ping 192.168.0.2 –t (EUT), ping 192.168.0.1 –t (Server PC).

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.	ONYX-173D / PANEL + LCD / 1280X1024, VF=75Hz
2.	ONYX-173D / PANEL + LCD / 1024X768, VF=70Hz
3.	ONYX-173D / PANEL + LCD / 800X600, VF=60Hz
4.	ONYX-173D / PANEL + TV / 1024X768, VF=60Hz
5.	ONYX-173D / PANEL + TV / 800X600, VF=60Hz
6.	ONYX-153D / PANEL + LCD / 1280X1024, VF=75Hz

Radiation(s):

1	ONYX-173D / PANEL + LCD / 1280X1024, VF=75Hz
1.	ONYX-173D / PANEL + LCD / 1280X1024, VF=75Hz / 1-8GHz
2.	ONYX-173D / PANEL + LCD / 1024X768, VF=70Hz
3.	ONYX-173D / PANEL + LCD / 800X600, VF=60Hz
4.	ONYX-173D / PANEL + TV / 1024X768, VF=60Hz
5.	ONYX-173D / PANEL + TV / 800X600, VF=60Hz
6.	ONYX-153D / PANEL + LCD / 1280X1024, VF=75Hz

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 recorded 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.

Support Equipment

EUT Devices:

No	Equipment	Model #	Trade Name
1	CPU (1.6GHz)	N/A	Genuine Intel Mobile
2	DVD ROM	DV-28SL	TEAC
3	Hard Disk	MHT2020AT	FUJITSU
4	Memory (512MB)	DDR333MHz	DSL

Date of Issue: November 17, 2005

Peripherals Devices:

No	Equipment	Model	Serial No.	FCC ID/ BSMI ID	Trade Name	Data Cable	Power Cord
1	Ear / Mic	MSB301	N/A	N/A	e-Sense	Unshielded, 1.8m	N/A
2	Player	RQ-L317	N/A	N/A	PANASONIC	Unshielded, 1.8m	N/A
3	USB 2.0 HDD	F12-U	N/A	BSMI ID: 4912A002	TeraSys	Shielded, 2.0m	Unshielded, 1.8m with a core
4	USB 2.0 HDD	F12-U	N/A	BSMI ID: 4912A002	TeraSys	Shielded, 2.0m	Unshielded, 1.8m with a core
5	USB 2.0 HDD	F12-U	N/A	BSMI ID: 4912A002	TeraSys	Shielded, 2.0 m	Unshielded, 1.8m with a core
6	USB 2.0 HDD	F12-U	N/A	BSMI ID: 4912A002	TeraSys	Shielded, 2.0 m	Unshielded, 1.8m with a core
7	USB 2.0 HDD	F12-U	N/A	BSMI ID: 4912A002	TeraSys	Shielded, 2.0m	Unshielded, 1.8m with a core
8	PS/2 Mouse	M071KC	443029438	BSMI: R41108 DoC	DELL	Shielded, 1.8m	N/A
9	PS/2 Keyboard	SK-8110	N/A	BSMI: T3A002 DoC	DELL	Shielded, 1.8m	N/A
10	Printer	C60	N/A	BSMI ID: 3902E006	EPSON	Shielded, 1.8 m	Unshielded, 1.8m
11	Monitor (TV)	KD17NS	7728	BSMI: R33475	SAMAUNG	Shielded, 1.8m	Unshielded, 1.8m
12	Monitor	171T	GH17H4LT702622L	R33475	SAMSUNG	Shielded, 1.8m with two cores	Unshielded, 1.8m
13	Modem	5JEG4033MKO	N/A	5RJTAI-35500-M5-E	TOP - SOLUTION	Shielded, 1.8m	Unshielded, 1.8m
14	Modem	5JEG4033MKO	N/A	5RJTAI-35500-M5-E	TOP- SOLUTION	Shielded, 1.8m	Unshielded, 1.8m
15	Modem	5JEG4033MKO	N/A	5RJTAI-35500-M5-E	TOP - SOLUTION	Shielded, 1.8m	Unshielded, 1.8m
16	Server PC	5420GC	1D23KMDWM08	DoC BSMI ID: 3892B894	COMPAQ	Unshielded, 10m	Unshielded, 1.8m
17	SD Card	N/A	N/A	N/A	N/A	N/A	N/A
18	SM Card	N/A	N/A	N/A	N/A	N/A	N/A
19	MS Card	N/A	N/A	N/A	N/A	N/A	N/A
20	CF Card	N/A	N/A	N/A	N/A	N/A	N/A

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: November 17, 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
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	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 ILAG 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
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

Date of Issue: November 17, 2005

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.

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 equivalent 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	10/14/2006		
MEASURE RECEIVER	SCHAFFNER	SCR3501	338	06/27/2006		
SPECTRUM ANALYZER	ADVANTEST	R3132	120900008	No Calibration Required		
ANTENNA	SCHAFFNER	CBL 6112B	2809	09/23/2006		
AMPLIFIER	SCHAFFNER	CPA9231A	3626	10/08/2006		
CABLE	BELDEN	9913	N-TYPE #I2	02/18/2006		
ATTENUATOR	MCL	UNAT-6	AT06-3	10/08/2006		
THERMO- HYGRO METER	TFA	N/A	NO.2	11/02/2006		
		Above 1GHz Use	d			
EMC ANALYZER (100Hz-22GHz)	НР	8566B	2937A06102	06/30/2006		
ANTENNA (1-18GHz)	EMCO	3115	5761	01/17/2006		
AMPLIFIER (1-18GHz)	HP	8449B	3008A01266	02/16/2006		
CABLE (1-18GHz)	JYEBAO	LL142	SMA#RS1&2	02/16/2006		
CABLE (1-18GHz)	JYEBAO	LL142	SMA#C1	04/28/2006		

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

> Rev. 00 Page 8

Conducted Emission Test Site # B						
EQUIPMENT	MFR	MODEL	SERIAL NUMBER	CAL. DUE		
TEST RECEIVER	R&S	ESHS10	843743/015	03/31/2006		
LISN (EUT)	EMCO	3825/2	9106-1810	01/16/2006		
LISN	EMCO	3825/2	1382	01/16/2006		
BNC CABLE	MIYAZAKI	5D-FB	BNC B1	07/14/2006		
Pulse Limiter	R&S	ESH3-Z2	100374	08/25/2006		
THERMO- HYGRO METER	TOP	HA-202	9303-3	03/02/2006		

Date of Issue: November 17, 2005

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

7 LINE CONDUCTED & RADIATED EMISSION TEST

7.1 LIMIT

Maximum permissible level of Line Conducted Emission

Frequency	(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			

^{*} Decreases with the logarithm of the frequency.

Maximum permissible level of Radiated Emission measured at 3meter

Frequency (MHZ)	Maximum Field Strength Limit (dBu V/m/ Q.P.)
30-88	40
88-216	43.5
216-960	46
Above 960	53.9

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

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 ANSI C63.4 (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: November 17, 2005

- Support equipment, if needed, was placed as per ANSI C63.4.
- All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.
- The test equipment EUT installed received AC power, 120VAC/60Hz, 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 a EMI Test Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to the Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Receiver.
- 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.

Page 10 Rev. 00

Procedure of Final Test

• EUT and support equipment were set up on the test bench as per step 10 of the preliminary test.

Date of Issue: November 17, 2005

- 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 AV. limit in Q.P. mode, then the emission signal was re-checked using an AV. detector.
- The test data of the worst-case condition(s) was recorded.

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

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)

Page 11 Rev. 00

7.3 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: November 17, 2005

- Support equipment, if needed, was placed as per ANSI C63.4.
- All I/O cables were positioned to simulate typical usage as per ANSI C63.4.
- The EUT received AC power source, 120VAC/60Hz, from the outlet socket under the turntable. All support equipment received power from another socket under the turntable.
- The antenna was placed at 3 meter away from the EUT as stated in ANSI C63.4. 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 8000MHz. The EUT test program was started. Emissions were scanned and measured rotating the EUT and loop antenna to 360 degrees, 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.

Page 12 Rev. 00

Procedure of Final Test

• EUT and support equipment were set up on the turntable as per step 8 of the preliminary test.

Date of Issue: November 17, 2005

- The Analyzer / Receiver scanned from 30MHz to 8000MHz Emissions were scanned and measured rotating the EUT and loop antenna to 360 degrees, varying cable placement, 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.

Data Sample:

Freq. MHz	Read Level dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Over Limit dB	Reading Type (P/Q/A)	Pol. (H/V)
x.xx	14.0	12.2	26.2	43.5	-17.3	Q	Н

Freq. = Emission frequency in MHz

Read Level = Uncorrected Analyzer/Receiver reading

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

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

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

Calculation Formula

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

Page 13 Rev. 00

7.4 TEST RESULTS

Line Conducted Emission

Model: ONYX-173D Test Mode: Mode 1

Temperature: 23°C **Humidity:** 57% RH

Test Results: Passed Tested by: WEBBER JUNG

Date of Issue: November 17, 2005

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

Six Highest Conducted Emission Readings								
Frequency Range Investigated				150 kHz to 30 MHz				
Freq (MHz)	Read Level (dBuV)	Factor (dB)	Level (dBuV)	Limit Line (dBuV)	Over Limit (dB)	Reading Type (P/Q/A)	Line (L1/L2)	
0.150	41.94	10.01	51.95	66.00	-14.05	P	L1	
0.166	36.84	10.00	46.84	65.16	-18.33	P	L1	
16.750	29.55	10.52	40.07	60.00	-19.93	P	L1	
0.150	41.86	10.01	51.87	66.00	-14.13	P	L2	
0.938	27.63	10.01	37.64	56.00	-18.36	P	L2	
12.188	30.29	10.37	40.66	60.00	-19.34	P	L2	

NOTE: 1. The emission level was or more than 2dB below the Average limit, so no re-check anymore.

Page 14 Rev. 00

^{2. 0.15}MHz to 30MHz test is Applicable Part 15.107 standard.

Radiated Emission

Model: ONYX-173D Test Mode: Mode 1

Temperature: 25°C **Humidity:** 61% RH

Test Results: Passed Tested by: MARK HSU

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

Six Highest Radiated Emission Readings								
Frequency Range Investigated				30 MHz to 1000 MHz at 3m				
Freq (MHz)	Read Level (dBuV)	Factor (dB)	Level (dBuV)	Limit Line (dBuV)	Over Limit (dB)	Reading Type (P/Q/A)	Pol. (H/V)	
125.008	45.70	-9.25	36.45	43.50	-7.05	Q	V	
160.010	47.50	-11.07	36.43	43.50	-7.07	Q	V	
233.500	50.50	-9.20	41.30	46.00	-4.70	Q	V	
240.040	47.20	-8.63	38.57	46.00	-7.43	Q	\mathbf{V}	
233.500	48.90	-9.20	39.70	46.00	-6.30	Q	Н	
480.041	42.30	-2.35	39.95	46.00	-6.05	Q	Н	

NOTE: 1. 30MHz to 1000MHz test is Applicable Part 15.109 standard.

Page 15 Rev. 00

Date of Issue: November 17, 2005

^{2.} The test results are measured by 10m, which translate to 3m as the following calculation: 3m Radiated emission = 10m Radiated emission + $20 \log (10/3)$.

APPENDIX I - PHOTOGRAPHS OF TEST SETUP

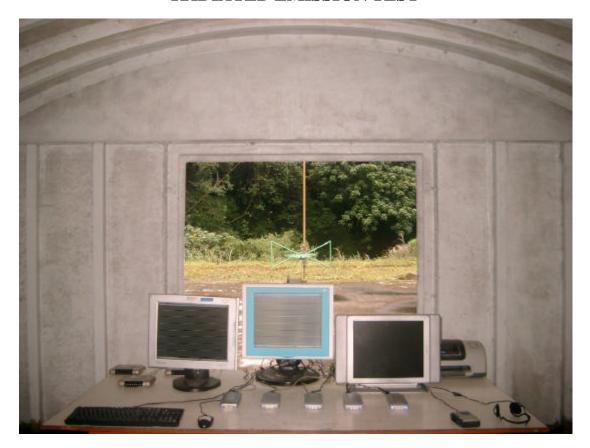
LINE CONDUCTED EMISSION TEST





Page 16 Rev. 00

RADIATED EMISSION TEST





Page 17 Rev. 00