FCC 47 CFR PART 18

Date of Issue: May 12, 2008

TEST REPORT

For

Power Medical Station

Model: xxxxxONYX-154HTy-xxxxxxx; xxxxxONYX-174HTy-xxxxxxx

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. Sindian BU.

No.163-1, Jhongsheng Rd., Sindian City, Taipei County 23151, Taiwan TEL: (02) 2217-0894

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1 TEST RESULT CERTIFICATION

Applicant: AAEON Technology Inc.

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

Date of Issue: May 12, 2008

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: Power Medical Station

Trade Name: AAEON

xxxxxONYX-154HTy-xxxxxxx

Model: (Where y is T or blank and x is 0-9,A-Z,-or blank);

xxxxxONYX-174HTy-xxxxxxx

(Where y is T or blank and x is 0-9, A-Z,-or blank)

Detailed EUT Description: See Item 2 of this report

Date of Test: May 05, 2008 ~ May 08, 2008

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:

Vince Chiang

Assistant Manager of Sindian BU.

Compliance Certification Services Inc.

Reviewed by:

Vesta Hsu

Supervisor of report document dept. of Sindian BU.

Compliance Certification Services Inc.

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2 EUT DESCRIPTION

Product	Power Medical Station	
Trade Name	AAEON	
Model	xxxxxONYX-154HTy-xxxxxxx (Where y is T or blank and x is 0-9,A-Z,-or blank); xxxxxONYX-174HTy-xxxxxxx (Where y is T or blank and x is 0-9,A-Z,-or blank)	
Housing Type	Plastic	
EUT Power Rating	100-240VAC	
AC Power During Test	120VAC / 60Hz	
OSC/Clock Frequencies	25MHz; 24.576MHz; 14.31818MHz; 32.768kHz	

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Model Differences

Model Name	Difference	Tested (Checked)	
xxxxxONYX-154HTy-xxxxxxx	15"TFT LCD	\boxtimes	
(Where y is T or blank and x is 0-9,A-Z,-or blank)			
xxxxxONYX-174HTy-xxxxxxx	17"TFT LCD	\boxtimes	
(Where y is T or blank and x is 0-9,A-Z,-or blank)			

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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 Keyboard Port	1	1
4). PS/2 Mouse Port	1	1
5). VIDEO-OUT Port (VGA)	1	1
6). AUDIO IN Port	1	1
7). Earphone Port	1	1
8). Microphone Port	1	1
9). LAN Port	1	1
10). USB Port	3	3
11). SD Slot	1	1
12). CF Slot	1	1
13). MS Slot	1	1
14). SM Slot	1	1

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Note: None.

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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.
- 3. Run Winemc.exe and choose "E:/ & F:/ & G:/ & H:/ & I:/ & J:/ & K:/" to test EUT.

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- 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 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 Mode(s):

1	ONYX-154	800x600, VF=60Hz
2		1024X768, VF=60Hz
3		800X600, VF=60Hz
4	ONYX-174	1024X768, VF=60Hz
5		1280X1024, VF=60Hz

Radiation Mode(s):

1	1	800x600, VF=60Hz
2	ONYX-154	1024X768, VF=60Hz
		1024X768, VF=60Hz / 1-6.5GHz
3		800X600, VF=60Hz
4	ONYX-174	1024X768, VF=60Hz
5		1280X1024, VF=60Hz

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

Conduction: Mode 3

Radiation: Mode 2

Then, the EUT configuration and cable configuration of the above highest emission mode was recorded 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

EUT Devices (ONYX-154):

No	Equipment	Model #	Trade Name
1.	CPU (1300MHz)	Intel Celeron M Processor	Intel
2.	LCD (15")	TFT-LCD CLAA150XP 07	CPT
3.	HDD	MHV2080AT/40G	Fujitsu
4.	Memory DSL 512MB DDR 333MHZ	HY5DU12822DTP-D43	hynix
5.	Power Supply	ASM150-24	ASTRODYNE

EUT Devices (ONYX-174):

No	Equipment	Model #	Trade Name
1.	CPU (1300MHz)	Intel Celeron M Processor	Intel
2.	LCD (17")	CLAA170EA07 / 4 LAMP	CPT
3.	HDD	MHV2080AT/40G	Fujitsu
4.	Memory DSL 512MB DDR 333MHZ	HY5DU12822DTP-D43	hynix
5.	Power Supply	ASM150-24	ASTRODYNE

Peripherals Devices:

No	Equipment	Model	Serial No.	FCC ID/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	Earphone & Microphone	MSB301	N/A	N/A	e-Sense	Unshielded, 2.0m	N/A
4	Player	RQ-L11LT	N/A	BSMI ID: 3912A162	Panasonic	Unshielded, 1.5 m	N/A
5-7	USB 2.0 HDD X3	F12-U	N/A	BSMI ID: 4912A002	Terasys	Shielded, 1.8m	N/A
8	Monitor	710V	GS17H9NXA05853A	DoC BSMI: R33475	SAMSUNG	Shielded, 1.8m with two cores	Unshielded, 1.8m
9-10	Modem X2	5JEG4033MKO	N/A	5RJTAI-35500-M5-E	TOP - SOLUTION	Shielded, 1.8m	Unshielded, 1.8m
11	Printer	C20SX	N/A	BSMI ID: 3902E004	EPSON	Shielded, 1.8m	Unshielded, 1.8m
12	Server Notebook	M623	N/A	N/A	Fox	Unshielded, 20m	Unshielded, 1.8m

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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5 FACILITIES AND ACCREDITATIONS

5.1 FACILITIES

All measurement facilities used to collect the measurement data are located at CCS Taiwan Sindian BU. at No.163-1, Jhongsheng Rd., Sindian City, Taipei County 23151, Taiwan.

The measurement facilities are constructed in conformance with the requirements of CISPR 16-1-1, CISPR 16-1-2, CISPR 16-1-3, CISPR 16-1-4 and CISPR 16-1-5, ANSI C63.4 and other equivalent standards.

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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.

This accredited organization maintains A2LA accreditation to ISO/IEC 17025 for the specific test listed in A2LA Certificate # 0824-01. The test results included in this report, however, are not covered by this accreditation.

Country	Agency	Scope of Accreditation	Logo
USA	A2LA	CFR 47, FCC Part 15/18; 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 TESTING CERT #0824.01
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-2265/1630~4 C-1882/2146
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	Trading Laboratory 1108
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 SL2-R1-F-0008
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.

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6 INSTRUMENT AND CALIBRATION

6.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

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Measurement	Frequency	Uncertainty
Conducted emissions	9kHz~30MHz	± 1.7376
Radiated emissions	30MHz ~ 200MHz	± 3.9041
Radiated effilssions	200MHz ~1000MHz	± 3.9162

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Consistent with industry standard (e.g. CISPR 22: 2006, clause 11, Measurement Uncertainty) determining compliance with the limits shall be base on the results of the compliance measurement. Consequently the measure emissions being less than the maximum allowed emission result in this be a compliant test or passing test.

The acceptable measurement uncertainty value without requiring revision of the compliance statement is base on conducted and radiated emissions being less than UCISPR which is 3.6dB and 5.2dB respectively. CCS values (called ULab in CISPR 16-4-2) is less than UCISPR as shown in the table above. Therefore, MU need not be considered for compliance.

6.2 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.

6.3 TEST AND MEASUREMENT EQUIPMENT

The following list contains measurement equipment used for testing. The equipment conforms to the requirement of CISPR 16-1-1, CISPR 16-1-2, CISPR 16-1-3, CISPR 16-1-4 and CISPR 16-1-5, 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.

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Equipment Used for Emission Measurement

	Open Area Test Site # I							
EQUIPMENT	MFR	MODEL	SERIAL NUMBER	CAL. DUE				
SITENSA	CCS	I Site	N/A	09/28/2008				
MEASURE RECEIVER	SCHAFFNER	SCR3501	338	07/03/2008				
SPECTRUM ANALYZER	ADVANTEST	R3132	120900008	No Calibration Required				
ANTENNA	SCHAFFNER	CBL 6112B	2809	09/21/2008				
AMPLIFIER	SCHAFFNER	CPA9231A	3626	10/10/2008				
CABLE	BELDEN	9913	N-TYPE #I2	02/24/2009				
ATTENUATOR	MCL	UNAT-6	AT06-3	10/10/2008				
THERMO- HYGRO METER	TFA	N/A	NO.2	12/03/2008				
Test S/W		Lab VIEW 7.1						
		Above 1GHz Use	d					
EMC ANALYZER (100Hz-22GHz)	НР	8566B	2937A06102	07/29/2008				
ANTENNA (1-18GHz)	EMCO	3115	00022256	01/30/2009				
AMPLIFIER (1-18GHz)	НР	8449B	3008A01266	01/28/2009				
CABLE (1-18GHz)	JYEBAO	LL142	SMA#RS1	01/28/2009				
CABLE (1-18GHz)	HUBER +SUHNER	SUCOFLEX 104	SMA#RS3	01/28/2009				
CABLE (1-18GHz)	ЈҮЕВАО	LL142	SMA#C1	01/28/2009				

Conducted Emission Test Site # A									
EQUIPMENT	MFR	MODEL	SERIAL NUMBER	CAL. DUE					
TEST RECEIVER	R&S	ESHS20	840455/006	02/18/2009					
LISN (EUT)	SCHWARZBECK	NSLK 8127	8127382	12/03/2008					
LISN	SOLAR	8012-50-R-24-BNC	8305114	12/03/2008					
BNC CABLE	Huber+Suhner	RG-223/U	BNC A 3	05/13/2008					
THERMO- HYGRO METER	TECPEL	DTM-303	No.7	11/15/2008					
Test S/W	EMI 32.exe								

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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.

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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 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 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 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.

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Procedure of Final Test

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

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- 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 Line (dBuV)	Over Limit (dB)	Remark (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)

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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 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 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 6500MHz. 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.

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Procedure of Final Test

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

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- The Analyzer / Receiver scanned from 30MHz to 6500MHz. 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)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector (P/Q/A)	Pol. (H/V)
X.XX	14.0	12.2	26.2	30	-3.8	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

O = Ouasi-peak Read

Q = Quasi-peak Reading A = Average Reading

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

Calculation Formula

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

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7.4 TEST RESULTS

Line Conducted Emission

Model: ONYX-174 Test Mode: Mode 3

Temperature: 24°C **Humidity:** 55% RH

Test Results: Passed **Tested by:** ALEX PAN

(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)	Remark (P/Q/A)	Line (L1/L2)		
0.193	54.48	0.10	54.58	63.89	-9.31	P	L1		
0.193	47.97	0.10	48.07	53.89	-5.82	A	L1		
0.232	49.84	0.10	49.94	62.39	-12.45	P	L1		
0.579	44.46	0.11	44.57	56.00	-11.43	P	L1		
0.197	54.76	0.12	54.88	63.76	-8.87	P	L2		
0.197	47.26	0.12	47.38	53.76	-6.37	A	L2		
0.234	49.74	0.12	49.86	62.30	-12.44	P	L2		
0.579	43.70	0.10	43.80	56.00	-12.20	P	L2		

NOTE: 1. Those frequencies only show peak emission level because that was below the Average limit, so no need to check average anymore.

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

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Radiated Emission

Model: ONYX-154 Test Mode: Mode 2

Temperature: 25°C **Humidity:** 80% RH

Test Results: Passed Tested by: JIN LIAO

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

Six Highest Radiated Emission Readings									
Fr	requency Ran	ge Investiga	30 M	Hz to 1000) MHz at 31	m			
Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector (P/Q/A)	Pol. (H/V)		
216.550	53.50	-10.79	42.71	46.00	-3.29	Q	\mathbf{V}		
674.100	41.90	1.02	42.92	46.00	-3.08	Q	V		
160.100	50.80	-10.69	40.12	43.50	-3.38	Q	H		
196.550	48.70	-11.48	37.22	43.50	-6.28	Q	H		
233.990	52.90	-10.10	42.80	46.00	-3.20	Q	H		
241.120	50.60	-9.78	40.82	46.00	-5.18	Q	H		

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

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APPENDIX I - PHOTOGRAPHS OF TEST SETUP

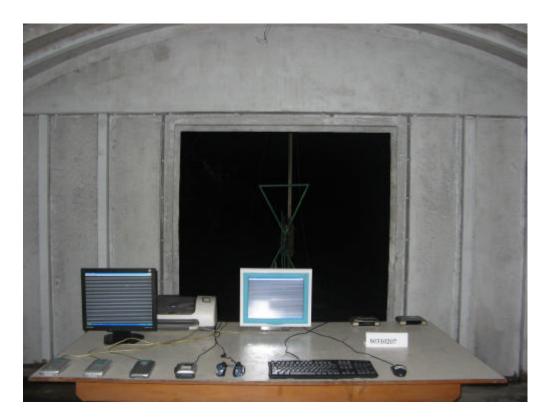
LINE CONDUCTED EMISSION TEST





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RADIATED EMISSION TEST





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