

### FCC 47 CFR PART 15 SUBPART B

# **TEST REPORT**

For

**3U Industrial Bare Chassis** 

Model: ARC-635M

**Trade Name: AAEON** 

Issued for

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



Compliance Certification Services Inc. Hsintien Lab. No. 165, Chunghsen Road, Hsintien City Taipei Hsien, Taiwan TEL: (02) 2217-0894 FAX: (02) 2217-1029

Issued by



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# **1 TEST RESULT CERTIFICATION**

Applicant:	<b>AAEON Technology Inc.</b> 5F, No. 135, Lane 235, Pao Chiao Rd., Hsin-Tien City, Taipei, Taiwan, R.O.C.	
Manufacturer:	AAEON Technology Inc. 5F, No. 135, Lane 235, Pao Chiao Rd., Hsin-Tien City, Taipei, Taiwan, R.O.C.	
Equipment Under Test:	3U Industrial Bare Chassis	
Trade Name:	AAEON	
Model:	ARC-635M	
Detailed EUT Description:	See Item 2 of this report	
Date of Test:	September 14, 2004	

Applicable Standard	Class / Limit	Test Result				
FCC Part 15 Subpart B	Class A	No non-compliance noted				
Dev	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 15, Subpart B 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 Section Manager of Hsintien Laboratory Compliance Certification Services Inc.



# **2 EUT DESCRIPTION**

Product	3U Industrial Bare Chassis	
Trade Name	AAEON	
Model	ARC-635M	
Housing Type	Metal case	
EUT Power Rating	115-240VAC from Host PC Power Supply	
AC Power During Test	120VAC / 60Hz to Host PC Power Supply	
Power Supply Manufacturer	Seventeam	
Power Supply Model Number	ST-302HLP	
AC Power Cord Type	Unshielded, 1.8m (Detachable) to Host PC Power Supply	

#### **I/O PORT OF EUT**

I/O PORT TYPES	Q'TY	TESTED WITH

Note: Client consigns only one model sample (Model Number is ARC-635M) to test.



# **3 TEST METHODOLOGY**

### 3.1 EUT SYSTEM OPERATION

- 1. Windows 2000 boots system.
- 2. Run Emctest.exe choose Elements / Video Mode to test.
- 3. Run Emitest.exe choose "0" Run all test.
- 4. Run Winemc.exe and choose "E:/ & F:/" to test EUT.

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

### **3.2 DECISION OF FINAL TEST MODE**

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

#### Mode:

#### 1. Normal Mode

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.



# 4 SETUP OF EQUIPMENT UNDER TEST

#### <u>Setup Diagram</u>

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

#### **Support Equipment**

#### **Host PC Devices:**

No	Equipment	Model #	Serial #	FCC/BSMI ID	Trade Name
1	RAM (512MB)	184P DDR400	TS64MLD64V4F3	N/A	SYNNEX
2	CPU (2.4GHz)	CELERON	SL6VU CHINA	N/A	INTEL
3	HDD	3.2GB	ST33221A	N/A	Seagate
4	POWER SUPPLY	ST-302HLP	N/A	N/A	Seventeam
5	FLOPPY	FD1231H	N/A	N/A	NEC
6	CD ROM	LTN-526S	N/A	N/A	LITE-ON

#### **Peripherals Devices:**

No	Equipment	Model	Serial No.	FCC ID	Trade Name	Data Cable	Power Cord
1	PS/2 Mouse	M-S34	LNA12301809	BSMI: 4862A011 DZL211029	Logitech	Shielded, 1.8m	N/A
2	PS/2 Keyboard	Y-SP29	SYU25038728	BSMI: 3902C736	Logitech	Shielded, 1.8m	N/A
3	Printer	C20SX	N/A	BSMI: 3902E004	EPSON	Shielded, 1.8m	Unshielded, 1.8m
4	Monitor	171T	BH17H4LT702628A	BSMI: R33475	SAMSUNG	Shielded, 1.8m with two cores	Unshielded, 1.8m
5	USB 2.0HDD	F12-UF	N/A	BSMI: 4912A002	TeraSyS	Shielded, 1.8m with a core	N/A
6	USB 2.0HDD	F12-UF	N/A	BSMI: 4912A002	TeraSyS	Shielded, 1.2m with a core	N/A
7	Modem	5JEG4033MKO		5RJTAI-35500-M5-E	TOP-SOLUTION	Shielded, 1.4m	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.



# **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&199, Chunghsen Road, Hsintien City, Taipei Hsien, Taiwan.

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.	
USA	FCC	3/10 meter Open Area Test Sites to perform FCC Part 15/18 measurements	<b>FCC</b> 250366
Japan	VCCI	3/10 meter Open Area Test Sites and Line Conducted Test Room to perform conducted/radiated measurements	<b>VCCI</b> 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 ILAC MRA
Taiwan	BSMI	CNS 13438, CNS 13783-1, CNS 13439	SL2-IN-E-0005 SL2-A1-E-0005 SL2-R1-E-0005 SL2-R2-E-0005

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



# 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.

### 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.

Open Area Test Site # I					
EQUIPMENT	MFR	MODEL	SERIAL NUMBER	CAL. DUE	
SITE NSA	CCS	I Site	N/A	09/19/2004	
MEASURE RECEIVER	SCHAFFNER	SCR3501	338	07/05/2005	
SPECTRUM ANALYZER	ADVANTEST	R3132	120900008	No Calibration Required	
ANTENNA	SCHAFFNER	CBL 6112B	2809	09/27/2004	
AMPLIFIER	H.P.	8447D	2944A08837	10/10/2004	
CABLE	BELDEN	9913	N-TYPE #I1	10/10/2004	
ATTENUATOR	MCL	UNAT-6	AT06-3	10/10/2004	
THERMO- HYGRO METER	TFA	N/A	NO.2	11/23/2004	
	Abov	e 1GHz Used			
EMC ANALYZER (100Hz-22GHz)	HP	8566B	2937A06102	07/26/2005	
ANTENNA (1-18GHz)	EMCO	3115	5761	02/02/2005	
AMPLIFIER (1-26.5GHz)	HP	8449B	3008A01266	02/15/2005	
CABLE (1-18GHz)	JYEBAO HUBER+SUHNER	LL142 SUCOFLEX 104	SMA-RS1&2 SMA-RS3	02/15/2005	

#### **Equipment Used for Emission Measurement**

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



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

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

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

#### Maximum permissible level of Radiated Emission measured at 10 meter

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

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

#### Maximum permissible level of Radiated Emission measured at 3 meter

FREQUENCY	Class A (	dBuV/m)	Class B (dBuV/m)		
(MHz)	Average	Peak	Average	Peak	
Above 1000	59.3	79.3	53.9	73.9	

*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.
- 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 system with EUT received AC power, 120V/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.



#### Procedure of Final Test

- EUT and support equipment were set up on the test bench as per step 10 of 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 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	73	-29.50	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
Р	= Peak Reading
Q	= Quasi-peak Reading
А	= Average Reading
L1	= Hot side
L2	= Neutral side

#### **Calculation Formula**

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



### 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.
- 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, 120V/60Hz, 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 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 5000MHz. 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 step 8 of the preliminary test.
- The Analyzer / Receiver scanned from 30MHz to 5000MHz. 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.

#### **Data Sample:**

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

Freq.	= Emission frequency in MHz
Reading	= Uncorrected Analyzer/Receiver reading
Factor	= Antenna Factor + Cable Loss + Attenuator (3/6/10dB) – Amplifier Gain
Amptd	= Uncorrected Analyzer/Receiver reading + Factor
Limit	= Limit stated in standard
Margin	= Reading in reference to limit
Р	= Peak Reading
Q	= Quasi-peak Reading
А	= Average Reading
Η	= Antenna Polarization: Horizontal
V	= Antenna Polarization: Vertical

#### **Calculation Formula**

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

### 7.4 TEST RESULTS

#### **Line Conducted Emission**

Model: ARC-635M

Temperature: 20 °C

Test Results: Passed

Test Mode: Mode 1 Humidity: 50% RH Tested by: Elvis Zeng

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

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	48.89	0.11	49.00	79.00	-30.00	Р	L1		
0.194	42.93	0.11	43.04	79.00	-35.96	Р	L1		
0.150	48.03	0.11	48.14	79.00	-30.86	Р	L2		
0.206	42.29	0.11	42.40	79.00	-36.60	Р	L2		
0.708	36.35	0.14	36.49	73.00	-36.51	Р	L2		
19.532	35.53	0.86	36.39	73.00	-36.61	Р	L2		

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



#### **Radiated Emission**

Model: ARC-635M

**Temperature:** 25°C

Test Results: Pass

Test Mode: Mode 1 Humidity: 44% RH Tested by: Elvis Zeng

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

Six Highest Radiated Emission Readings									
Frequency Range Investigated				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)		
125.0400	33.52	-6.48	40.00	39.92	-6.40	Р	V		
134.3100	33.73	-6.27	40.00	40.34	-6.61	Р	V		
156.6800	36.08	-3.92	40.00	43.94	-7.86	Р	V		
167.8600	35.89	-4.11	40.00	44.45	-8.56	Р	V		
125.0400	35.69	-4.31	40.00	42.09	-6.40	Р	Н		
210.6300	32.04	-7.96	40.00	39.96	-7.92	Р	Н		

NOTE: 30M to 1000M test is Applicable CISPR 22 / EN 55022 standard.

# **APPENDIX I - PHOTOGRAPHS OF TEST SETUP**

# LINE CONDUCTED EMISSION TEST







# **RADIATED EMISSION TEST**







# **APPENDIX II - TEST RESULT OF FINAL DATAS**

**Conducted Emission Plot** 

**Radiated Emission Data** 

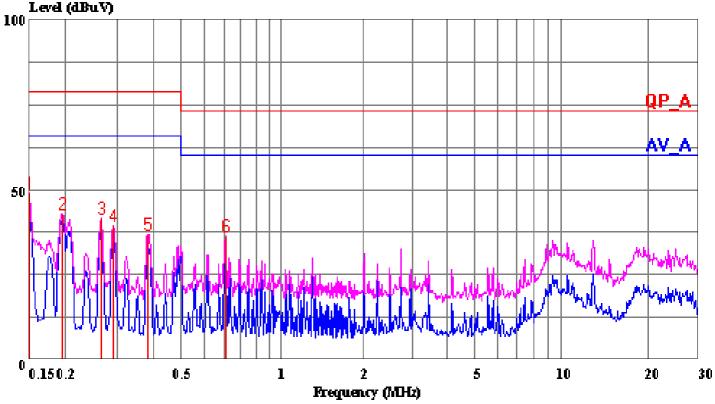


#### Data#: 3 File#: 研陽-0914.EMI

No. 199, Chung Sheng Road, Hsin Tien City, Taipei, Taiwan, R.O.C. Tel:02-2217-0894 Fax:02-2217-1029

Date: 2004-09-14 Time: 19:14:53

Ref Trace:



(Conduction A)

Trace: 2 1

Condition: LINE Report No. : 40915403 Test Engr. : Elvis Zeng Company : AAEON Technology Inc. EUT : ARC-635M Test Config : EUT / ALL PERIPHERALS Type of Test: FCC CLASS A Mode of Op. : NORMAL MODE

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1 2 3 4 5	0.150 0.194 0.264 0.292 0.383	48.89 42.93 41.31 39.31 36.89	0.11 0.11 0.12 0.12 0.12	41.43 39.43	79.00 79.00 79.00	-30.00 -35.96 -37.57 -39.57 -41.99	Peak Peak Peak
6	0.708	36.21	0.14	36.35		-36.65	

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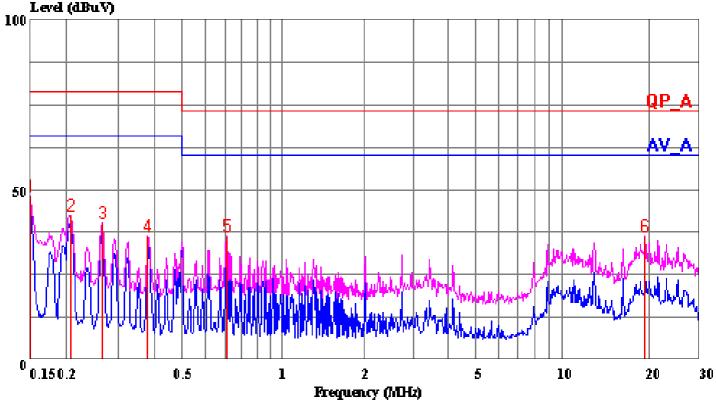


#### Data#: 6 File#: 研陽-0914.EMI

No. 199, Chung Sheng Road, Hsin Tien City, Taipei, Taiwan, R.O.C. Tel:02-2217-0894 Fax:02-2217-1029

Date: 2004-09-14 Time: 19:19:16

Ref Trace:



(Conduction A)

Trace: 5 4

Condition: NEUTRAL Report No. : 40915403 Test Engr. : Elvis Zeng Company : AAEON Technology Inc. EUT : ARC-635M Test Config : EUT / ALL PERIPHERALS Type of Test: FCC CLASS A Mode of Op. : NORMAL MODE

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1 2 3 4	0.150 0.206 0.264 0.381	48.03 42.29 39.99 36.05	0.11 0.11 0.12 0.12	48.14 42.40 40.11 36.17	79.00	-30.86 -36.60 -38.89 -42.83	Peak Peak
4 5 6	0.708	36.05 36.35 35.53	0.12 0.14 0.86	36.49	73.00	-42.83 -36.51 -36.61	Peak

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Custom Name: AAEON Technology Inc. Model Name: ARC-635M Test Mode: NORMAL MODE Project No.: 40915403 Engineer Name: Elvis Zeng Date: 2004-09-14

Index: EN55022 Class-A 10m Vertical dBuV/m 80 Limit 70 -6 dB Peak 60 QP 50 40  $\mathbf{2}$ 7 × 30 20 10 MHz 0. 30 100 300 EN55022 Class-A 10m Vertical dBuV/m 80-Limit 70 -6 dB Peak | 60 QP 50 40 30 20 10 MHz 0. 300 1000 Freq(MHz) Peak(dBuV/m) QP(dBuV/m) Margin(dB) Limit(dBuV/m) Reading(dBuV) Factor(dB) Height Degree Comment 1 65.1100 27.57 -12.43 40.00 40.73 -13.16 100 0 113.4100 31.18 -8.82 40.00 37.99 0 2 -6.81 100 0 3 125.0400 -6.48 40.00 100 33.52 39.92 -6.40 0 4 134.3100 33.73 -6.27 40.00 40.34 -6.61 100 5 156.6800 36.08 -3.92 40.00 43.94 -7.86 100 0 167.8600 35.89 -4.11 40.00 44.45 -8.56 100 0 6 0 7 194.4000 31.28 -8.72 40.00 40.08 -8.80 100 -9.60 0 8 210.6200 30.40 40.00 38.32 -7.92 100 47.00 0 9 240.0300 33.62 -13.38 39.66 -6.04 100

Site [



Custom Name: AAEON Technology Inc. Model Name: ARC-635M Test Mode: NORMAL MODE

Index:

Project No.: 40915403 Engineer Name: Elvis Zeng Date: 2004-09-14

EN55022 Class-A 10m Horizontal dBuV/m 80 Limit 70 -6 dB Peak 60 QP 50 40 6 5 2 4 ¥ 30 20 10 MHz 0 30 100 300 EN55022 Class-A 10m Horizontal dBuV/m 80 Limit 70 -6 dB Peak 60 QP 50 40 18 121¥ 30 20 10 MHz 0. 300 1000 Freq(MHz) Peak(dBuV/m) QP(dBuV/m) Margin(dB) Limit(dBuV/m) Reading(dBuV) Factor(dB) Height Degree Comment 68.9500 24.70 -15.30 40.00 37.99 -13.29 392 0 1 113.4300 -10.56 40.00 0 2 29.44 36.25 -6.81 392 3 125.0400 -4.31 0 35.69 40.00 42.09 -6.40 392 0 4 133.3600 29.79 -10.21 40.00 36.38 -6.59 392 5 155.9700 30.49 -9.51 40.00 38.30 -7.81 392 0 167.9000 31.27 -8.73 40.00 39.84 -8.57 392 0 б 0 7 210.6300 32.04 -7.96 40.00 39.96 -7.92 392 0 8 240.0200 35.87 -11.13 47.00 41.91 -6.04 392 0 9 268.6500 32.60 -14.40 47.00 37.63 -5.03 392 336.0200 37.78 -9.22 47.00 41.40 392 0 10 -3.62 11 470.0700 35.19 -11.81 47.00 35.54 -0.35 100 0 12 631.7500 35.91 -11.09 47.00 0 32.87 3.04 100

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