



**FCC 47 CFR PART 15 SUBPART B**

**TEST REPORT**

**For**

**ETX Board**

**Model: ETX-855**

**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

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# 1 TEST RESULT CERTIFICATION

**Applicant:** **AAEON Technology Inc.**  
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:** ETX Board

**Trade Name:** AAEON

**Model:** ETX-855

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

**Date of Test:** July 28, 2005 & July 29, 2005

Applicable Standard	Class / Limit	Test Result
FCC Part 15 Subpart B, IC ICES-003	Class A	No non-compliance noted
<b>Deviation from Applicable Standard</b>		
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:**

**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

<b>Product</b>	ETX Board
<b>Trade Name</b>	AAEON
<b>Model</b>	ETX-855
<b>Housing Type</b>	N/A
<b>Power Adaptor Power Rating</b>	3.3V/ 5VDC from Host PC
<b>AC Power During Test</b>	120VAC / 60Hz to Host PC Power Supply
<b>Power Supply Manufacturer</b>	Seventeam
<b>Power Supply Model Number</b>	ST-300HLP
<b>AC Power Cord Type</b>	Unshielded, 1.8m (Detachable) to Host PC Power Supply
<b>OSC/Clock Frequencies</b>	32.768kHz; 14.31818MHz; 25MHz; 24.576MHz

### I/O PORT OF EUT

<b>I/O PORT TYPE</b>	<b>Q'TY</b>	<b>TESTED WITH</b>
1). PIO Port	2	2
2). SIO Port	4	4
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). Microphone Port	1	1
8). Earphone Port	1	1
9). LAN Port	1	1
10). USB Port	4	4

*Note: Client consigns only one model sample (Model Number is ETX-855) to test.*



### 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 media player to play music.
4. Run Winemc.exe and choose “C” then run Read/Write to test.
5. Run Winemc.exe then select (E:/, F:/, G:/, H:/) to test USB 2.0 port.
6. 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 were scanned during the preliminary test:

**Conduction:**

<b>1.</b>	<b>Normal Mode</b>
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**Radiation:**

<b>1.</b>	<b>Normal Mode</b>
	<b>1-10GHz</b>

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

### Setup Diagram

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

### Support Equipment

#### Host PC Devices:

No	Equipment	Model #	Trade Name
1	CPU (2GHz)	Pentium (R)	Intel
2	MEMORY (1GB)	DDR333	KINGMAX
3	Power Supply	ST-300HLP	Seventeam
4	HDD (40GB)	VAM5JJ0	Maxtor

#### Peripherals Devices:

No	Equipment	Model	Serial No.	FCC/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-L11LT	N/A	BSMI ID: 3912A162	Panasonic	Unshielded, 1.4m	N/A
3	PS/2 Mouse	M071KC	443029525	DoC BSMI: R41108	DELL	Shielded, 1.8m	N/A
4	PS/2 Keyboard	SK-8110	N/A	DoC BSMI: T3A002	DELL	Shielded, 1.8m	N/A
5	USB 2.0 HDD	F12-U	N/A	BSMI ID: 4912A002	TeraSys	Shielded, 1.8m	Unshielded, 1.8m with a core
6	USB 2.0 HDD	F12-U	N/A	BSMI ID: 4912A002	TeraSys	Shielded, 1.8m	Unshielded, 1.8m
7	USB 2.0 HDD	F12-U	N/A	BSMI ID: 4912A002	TeraSys	Shielded, 1.8m	Unshielded, 1.8m
8	USB 2.0 HDD	F12-U	N/A	BSMI ID: 4912A002	TeraSys	Shielded, 1.8m	Unshielded, 1.8m with a core
9	Printer	C20SX	N/A	BSMI ID: 3902E004	EPSON	Shielded, 1.8m	Unshielded, 1.8m
10	Modem	5JEG4033MKO	N/A	5RJTAI-35500-M5-E	TOP-SOLUTION	Shielded, 0.8m	Unshielded, 1.8m
11	Modem	5JEG4033MKO	N/A	5RJTAI-35500-M5-E	TOP-SOLUTION	Shielded, 0.8m	Unshielded, 1.8m
12	Modem	5JEG4033MKO	N/A	5RJTAI-35500-M5-E	TOP-SOLUTION	Shielded, 1.8m	Unshielded, 1.8m
13	Modem	1414	N/A	IFAXDM1414	ACEEX	Shielded, 1.8m	Unshielded, 1.8m
14	Monitor	202P40	BZ000405640110	FCC ID: A3KM107 BSMI: R33048	PHILIPS	Shielded, 1.8m with two cores	Unshielded, 1.8m
15	Printer	C20SX	N/A	BSMI ID: 3902E004	EPSON	Shielded, 1.8m	Unshielded, 1.8m
16	Server Notebook	M285	RD49R-7YTJR-B3C4K-G2JQX-DD3CG	DoC BSMI: R31259	LEO	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.

## 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, Chungshen 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.	 824.01
USA	FCC	3/10 meter Open Area Test Sites to perform FCC Part 15/18 measurements	 250366
Japan	VCCI	3/10 meter Open Area Test Sites and Line Conducted Test Room to perform conducted/radiated measurements	 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
Canada	Industry Canada	RSS212, Issue 1	 IC 5742

*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.

#### Equipment Used for Emission Measurement

Open Area Test Site # E				
EQUIPMENT	MFR	MODEL	SERIAL NUMBER	CAL. DUE
SITE NSA	CCS	E Site	N/A	09/10/2005
EMI TEST RECEIVER	R&S	DSAI-D / ESBI-RF	827832/001 82706/003	03/08/2006
ANTENNA	SCHAFFNER	CBL 6112B	2802	09/25/2005
AMPLIFIER	MCL	ZKL-1R5	D100704	12/16/2005
CABLE	SUHNER	RG 214	N-TYPE#E4	11/18/2005
THERMO-HYGRO METER	TFA	N/A	NO.6	11/09/2005
ATTENUATOR	Midwest Microwave	MOD 219	AT10-2	12/16/2005
Above 1GHz Used				
EMC ANALYZER (100Hz-22GHz)	HP	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.*





<b>Conducted Emission Test Site # B</b>				
<b>EQUIPMENT</b>	<b>MFR</b>	<b>MODEL</b>	<b>SERIAL NUMBER</b>	<b>CAL. DUE</b>
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	08/26/2005
THERMO-HYGRO METER	TOP	HA-202	9303-3	03/02/2006

*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

<b>FREQUENCY (MHz)</b>	<b>Class A (dBuV)</b>		<b>Class B (dBuV)</b>	
	<b>Quasi-peak</b>	<b>Average</b>	<b>Quasi-peak</b>	<b>Average</b>
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

<b>FREQUENCY (MHz)</b>	<b>Class A (dBuV/m)</b>	<b>Class B (dBuV/m)</b>
	<b>Quasi-peak</b>	<b>Quasi-peak</b>
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

<b>FREQUENCY (MHz)</b>	<b>Class A (dBuV/m)</b>		<b>Class B (dBuV/m)</b>	
	<b>Average</b>	<b>Peak</b>	<b>Average</b>	<b>Peak</b>
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  
 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 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 10000MHz. 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 10000MHz. 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	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	30	-3.8	Q	H

- 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**

$$\text{Over Limit (dB)} = \text{Level (dBuV/m)} - \text{Limit (dBuV/m)}$$



## 7.4 TEST RESULTS

### Line Conducted Emission

**Model:** ETX-855**Test Mode:** Mode 1**Temperature:** 25 °C**Humidity:** 39% RH**Test Results:** Passed**Tested by:** Matt Hsu

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

<b>Six Highest Conducted Emission Readings</b>							
<b>Frequency Range Investigated</b>				<b>150 kHz to 30 MHz</b>			
<b>Freq (MHz)</b>	<b>Read Level (dBuV)</b>	<b>Factor (dB)</b>	<b>Level (dBuV)</b>	<b>Limit Line (dBuV)</b>	<b>Over Limit (dB)</b>	<b>Reading Type (P/Q/A)</b>	<b>Line (L1/L2)</b>
<b>0.604</b>	<b>19.21</b>	<b>9.99</b>	<b>29.20</b>	<b>73.00</b>	<b>-43.80</b>	<b>P</b>	<b>L1</b>
<b>0.804</b>	<b>18.37</b>	<b>10.00</b>	<b>28.37</b>	<b>73.00</b>	<b>-44.63</b>	<b>P</b>	<b>L1</b>
<b>13.408</b>	<b>20.28</b>	<b>10.46</b>	<b>30.74</b>	<b>73.00</b>	<b>-42.26</b>	<b>P</b>	<b>L1</b>
<b>20.814</b>	<b>21.90</b>	<b>10.57</b>	<b>32.47</b>	<b>73.00</b>	<b>-40.53</b>	<b>P</b>	<b>L1</b>
<b>13.408</b>	<b>20.78</b>	<b>10.43</b>	<b>31.21</b>	<b>73.00</b>	<b>-41.79</b>	<b>P</b>	<b>L2</b>
<b>20.814</b>	<b>21.58</b>	<b>10.59</b>	<b>32.17</b>	<b>73.00</b>	<b>-40.83</b>	<b>P</b>	<b>L2</b>

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

**Radiated Emission****Model:** ETX-855**Test Mode:** Mode 1**Temperature:** 33°C**Humidity:** 40% RH**Test Results:** Passed**Tested by:** Matt Hsu(The chart below shows the highest readings taken from the final data, see **Appendix II** for details.)

<b>Six Highest Radiated Emission Readings</b>							
<b>Frequency Range Investigated</b>				<b>30 MHz to 1000 MHz at 10m</b>			
<b>Freq (MHz)</b>	<b>Read Level (dBuV)</b>	<b>Factor (dB/m)</b>	<b>Level (dBuV/m)</b>	<b>Limit Line (dBuV/m)</b>	<b>Over Limit (dB)</b>	<b>Reading Type (P/Q/A)</b>	<b>Pol. (H/V)</b>
<b>195.378</b>	<b>49.95</b>	<b>-18.67</b>	<b>31.28</b>	<b>40.00</b>	<b>-8.72</b>	<b>P</b>	<b>V</b>
<b>400.011</b>	<b>47.77</b>	<b>-9.81</b>	<b>37.96</b>	<b>47.00</b>	<b>-9.04</b>	<b>P</b>	<b>V</b>
<b>500.211</b>	<b>50.41</b>	<b>-7.03</b>	<b>43.38</b>	<b>47.00</b>	<b>-3.62</b>	<b>P</b>	<b>V</b>
<b>133.022</b>	<b>47.34</b>	<b>-16.82</b>	<b>30.52</b>	<b>40.00</b>	<b>-9.48</b>	<b>P</b>	<b>H</b>
<b>239.989</b>	<b>52.29</b>	<b>-15.33</b>	<b>36.96</b>	<b>47.00</b>	<b>-10.04</b>	<b>P</b>	<b>H</b>
<b>800.622</b>	<b>44.26</b>	<b>-1.71</b>	<b>42.55</b>	<b>47.00</b>	<b>-4.45</b>	<b>P</b>	<b>H</b>

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



## APPENDIX I - PHOTOGRAPHS OF TEST SETUP

### LINE CONDUCTED EMISSION TEST





## RADIATED EMISSION TEST





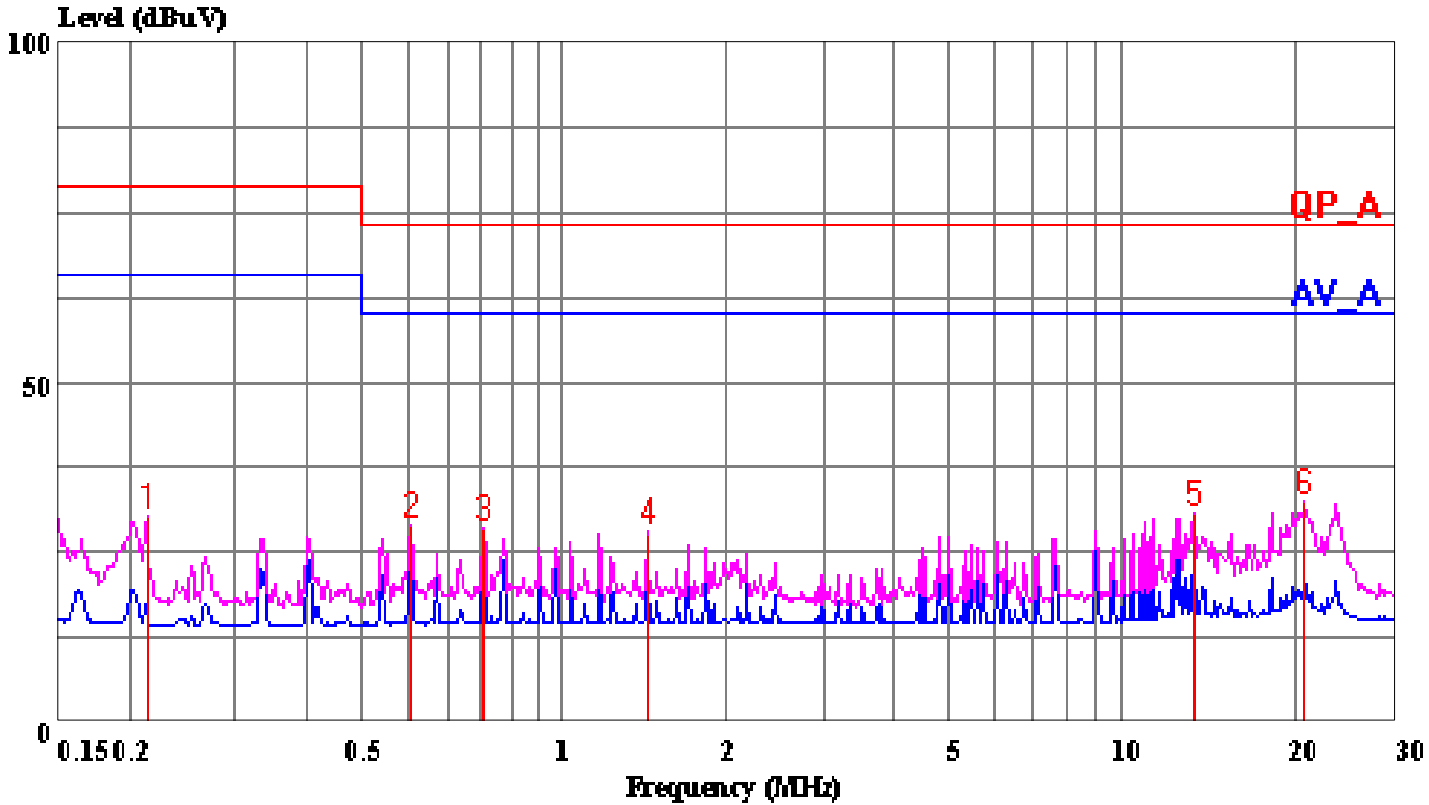
## **APPENDIX II - TEST RESULT OF FINAL DATAS**

### **Conducted Emission Plot**

### **Radiated Emission Data**

Data#: 3 File#: 50727208CB.EMI

Date: 2005-07-28 Time: 19:34:21



**(CCS Conduction B)**

Trace: 2 1

Ref Trace:

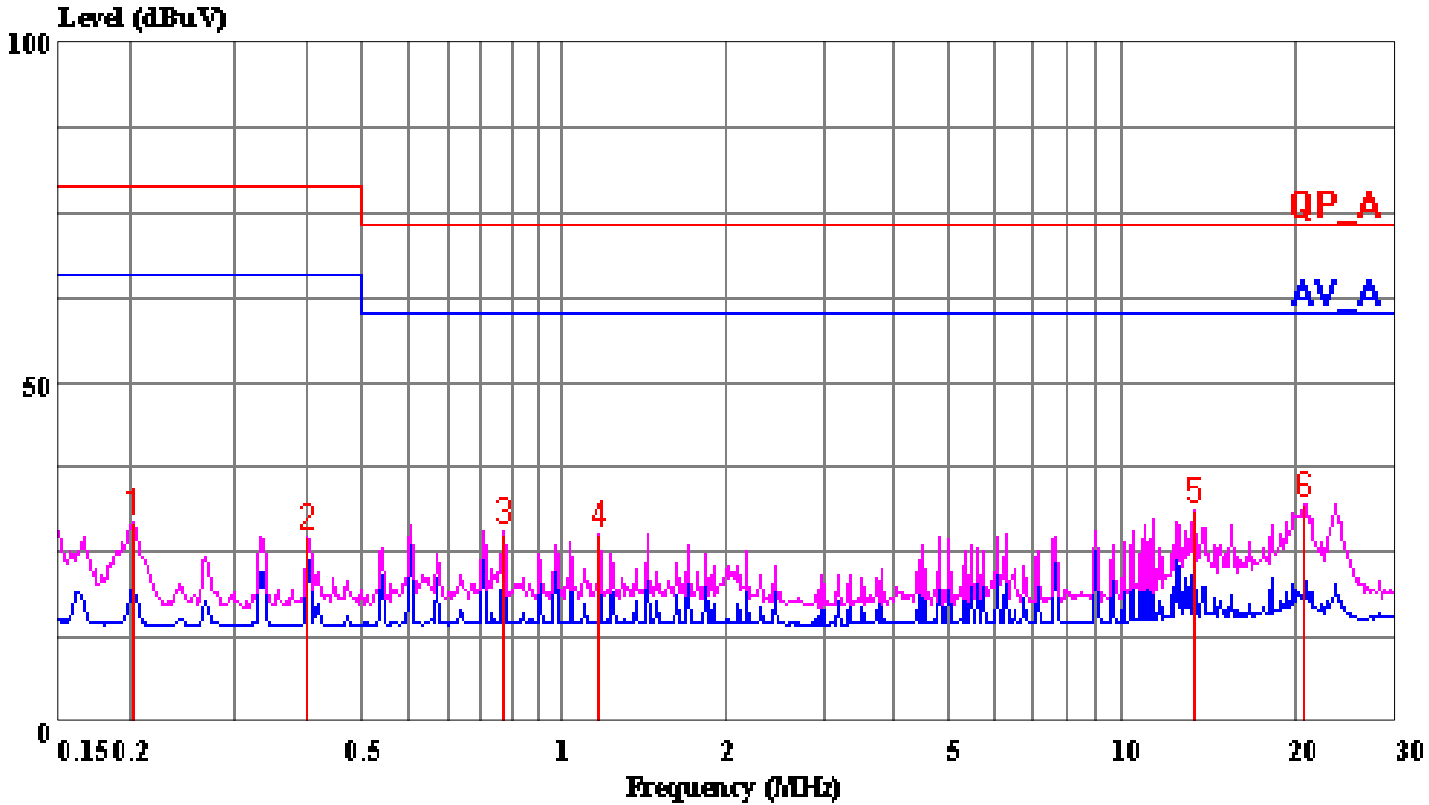
Condition: LINE  
Report No. : 50727208  
Test Engr. : MATT HSU  
Company : AAEON Technology Inc.  
EUT : ETX-855  
Test Config : EUT / ALL PERIPHERALS  
Type of Test: FCC CLASS A  
Mode of Op. : NORMAL MODE

Page: 1

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.213	20.15	9.97	30.12	79.00	-48.88	Peak
2	0.604	19.21	9.99	29.20	73.00	-43.80	Peak
3	0.804	18.37	10.00	28.37	73.00	-44.63	Peak
4	1.544	18.05	10.09	28.14	73.00	-44.86	Peak
5	13.408	20.28	10.46	30.74	73.00	-42.26	Peak
6	20.814	21.90	10.57	32.47	73.00	-40.53	Peak

Data#: 6 File#: 50727208CB.EMI

Date: 2005-07-28 Time: 19:38:43



**(CCS Conduction B)**

Trace: 5 4

Ref Trace:

Condition: NEUTRAL  
Report No. : 50727208  
Test Engr. : MATT HSU  
Company : AAEON Technology Inc.  
EUT : ETX-855  
Test Config : EUT / ALL PERIPHERALS  
Type of Test: FCC CLASS A  
Mode of Op. : NORMAL MODE

Page: 1

	Read Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.203	19.43	9.97	29.40	79.00	-49.60	Peak
2	0.402	17.19	9.97	27.16	79.00	-51.84	Peak
3	0.871	18.28	10.00	28.28	73.00	-44.72	Peak
4	1.276	17.54	10.02	27.56	73.00	-45.44	Peak
5	13.408	20.78	10.43	31.21	73.00	-41.79	Peak
6	20.814	21.58	10.59	32.17	73.00	-40.83	Peak

Data#: 1 File#: 50727208E.EMI  
Compliance E-Site

Date: 2005-07-28 Time: 15:06:26

Condition: VERTICAL / 10m  
Report No. : 50727208  
Test Engr. : MATT HSU  
Company : AAEON Technology Inc.  
EUT : ETX-855  
Test Config : EUT / ALL PERIPHERALS  
Type of Test: FCC CLASS A  
Mode of Op. : NORMAL MODE

Page: 1

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1	43.856	38.50	-19.64	18.86	40.00	-21.14	Peak
2	75.578	40.12	-22.77	17.35	40.00	-22.65	Peak
3	86.356	40.66	-20.41	20.25	40.00	-19.75	Peak
4	119.956	43.32	-16.34	26.98	40.00	-13.02	Peak
5	124.944	39.62	-16.54	23.08	40.00	-16.92	Peak
6	133.133	42.48	-16.82	25.66	40.00	-14.34	Peak
7	166.533	40.15	-17.83	22.32	40.00	-17.68	Peak
8	195.378	49.95	-18.67	31.28	40.00	-8.72	Peak
9	214.744	42.89	-17.15	25.74	40.00	-14.26	Peak
10	240.000	47.64	-15.33	32.31	47.00	-14.69	Peak
11	299.978	43.27	-13.40	29.87	47.00	-17.13	Peak
12	400.011	47.77	-9.81	37.96	47.00	-9.04	Peak
13	500.211	50.41	-7.03	43.38	47.00	-3.62	Peak
14	797.667	36.19	-1.96	34.23	47.00	-12.77	Peak

Data#: 2 File#: 50727208E.EMI  
Compliance E-Site

Date: 2005-07-28 Time: 15:22:56

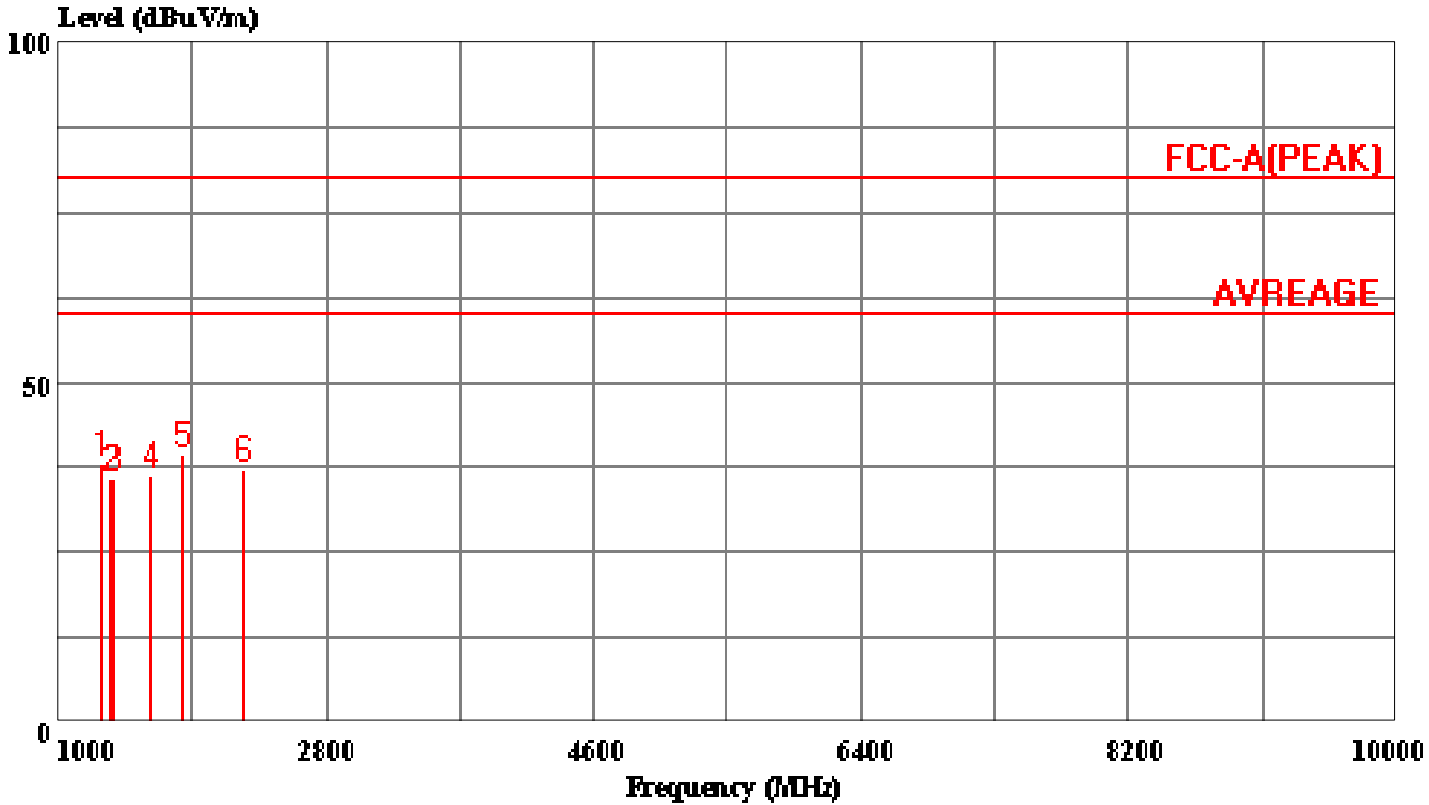
Condition: HORIZONTAL / 10m  
Report No. : 50727208  
Test Engr. : MATT HSU  
Company : AAEON Technology Inc.  
EUT : ETX-855  
Test Config : EUT / ALL PERIPHERALS  
Type of Test: FCC CLASS A  
Mode of Op. : NORMAL MODE

Page: 1

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1	47.956	49.57	-20.57	29.00	40.00	-11.00	Peak
2	64.200	48.15	-23.64	24.51	40.00	-15.49	Peak
3	86.400	42.87	-20.41	22.46	40.00	-17.54	Peak
4	119.944	43.48	-16.34	27.14	40.00	-12.86	Peak
5	124.978	44.77	-16.54	28.23	40.00	-11.77	Peak
6	133.022	47.34	-16.82	30.52	40.00	-9.48	Peak
7	194.978	41.77	-18.67	23.10	40.00	-16.90	Peak
8	214.733	41.27	-17.15	24.12	40.00	-15.88	Peak
9	233.244	43.68	-15.81	27.87	47.00	-19.13	Peak
10	239.989	52.29	-15.33	36.96	47.00	-10.04	Peak
11	299.945	41.62	-13.40	28.22	47.00	-18.78	Peak
12	366.533	36.03	-10.98	25.05	47.00	-21.95	Peak
13	398.989	43.07	-9.81	33.26	47.00	-13.74	Peak
14	800.622	44.26	-1.71	42.55	47.00	-4.45	Peak

Data#: 5 File#: 50727208MC.EMI

Date: 2005-07-29 Time: 10:48:53



(Chamber C)

Trace:

Ref Trace:

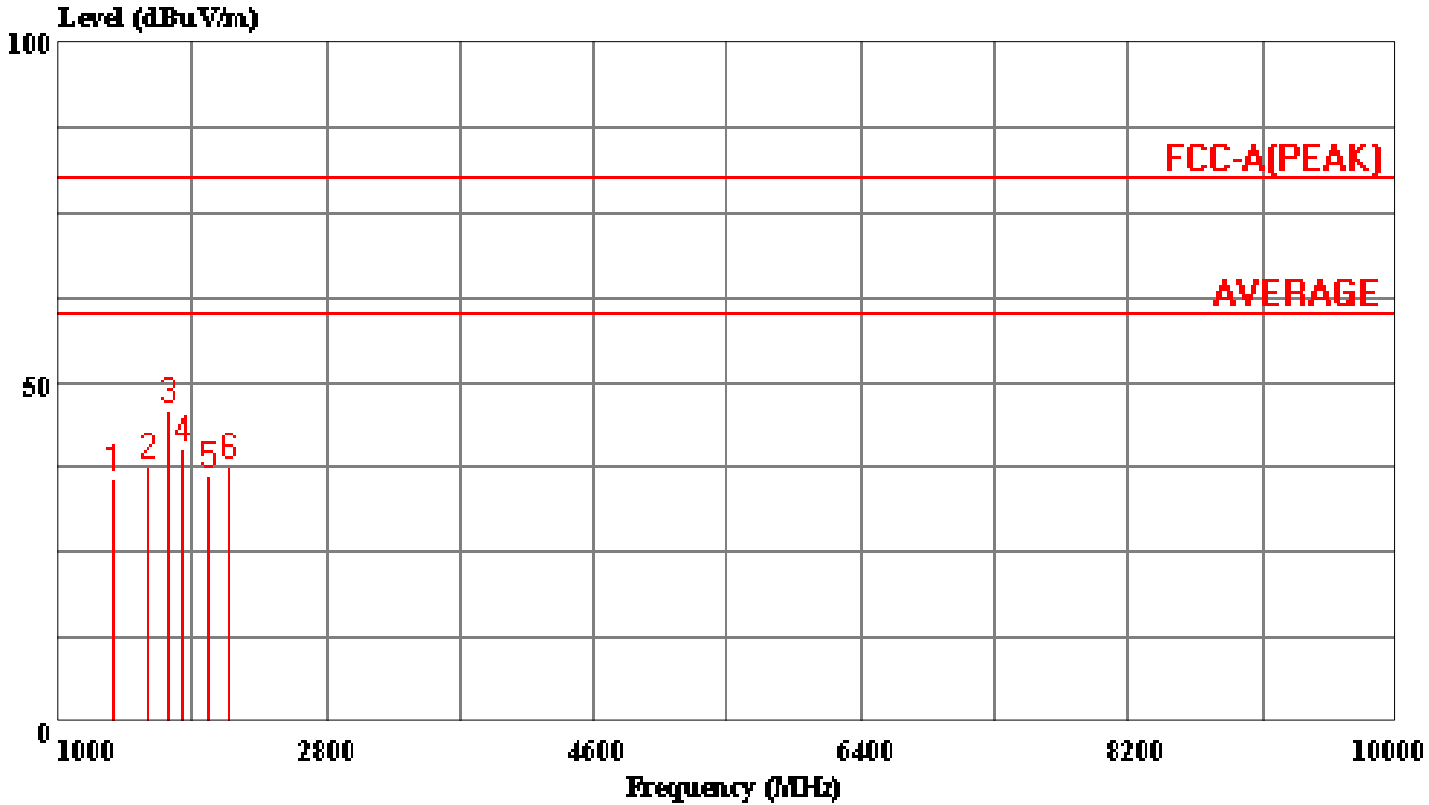
Condition: VERTICAL / 3m  
 Report No. : 50727208  
 Test Engr. : MATT HSU  
 Company : AAEON Technology Inc.  
 EUT : ETX-855  
 Test Config : EUT / ALL PERIPHERALS  
 Type of Test: FCC CLASS A  
 Mode of Op. : NORMAL MODE / 1-10GHz  
 : ALL TEST DATA UNDER THE AVERAGE LIMIT

Page: 1

	Read			Limit	Over	
Freq	Level	Factor	Level	Line	Limit	Remark
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1	1300.000	51.30	-13.08	38.22	80.00	-41.78 Peak
2	1345.000	48.70	-12.91	35.79	80.00	-44.21 Peak
3	1370.500	48.90	-12.82	36.08	80.00	-43.92 Peak
4	1619.500	48.10	-11.85	36.25	80.00	-43.75 Peak
5	1840.000	50.30	-10.94	39.36	80.00	-40.64 Peak
6	2242.000	47.00	-9.80	37.20	80.00	-42.80 Peak

Data#: 10 File#: 50727208MC.EMI

Date: 2005-07-29 Time: 10:50:11



(Chamber C)

Trace:

Ref Trace:

Condition: HORIZONTAL / 3m  
Report No. : 50727208  
Test Engr. : MATT HSU  
Company : AAEON Technology Inc.  
EUT : ETX-855  
Test Config : EUT / ALL PERIPHERALS  
Type of Test: FCC CLASS A  
Mode of Op. : NORMAL MODE / 1-10GHz  
: ALL TEST DATA UNDER THE AVERAGE LIMIT

Page: 1

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1	1378.000	48.80	-12.79	36.01	80.00	-43.99	Peak
2	1606.000	49.60	-11.90	37.70	80.00	-42.30	Peak
3	1732.000	57.40	-11.38	46.02	80.00	-33.98	Peak
4	1843.000	51.30	-10.92	40.38	80.00	-39.62	Peak
5	2018.500	46.60	-10.25	36.35	80.00	-43.65	Peak
6	2149.000	47.50	-9.99	37.51	80.00	-42.49	Peak