



**FCC 47 CFR PART 15 SUBPART B**

**TEST REPORT**

**For**

**Embedded Control PC**

**Model: AEC-6840**

**Trade Name: AAEON**

Issued for

**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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# 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:** Embedded Control PC

**Trade Name:** AAEON

**Model:** AEC-6840

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

**Date of Test:** October 14, 2004 & October 15, 2004

Applicable Standard	Class / Limit	Test Result
FCC Part 15 Subpart B	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:**

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

<b>Product</b>	Embedded Control PC
<b>Trade Name</b>	AAEON
<b>Model</b>	AEC-6840
<b>Housing Type</b>	Metal case
<b>EUT Power Rating</b>	12VDC from AC Adaptor
<b>AC Power During Test</b>	120VAC / 60 Hz to AC Adaptor
<b>AC Adaptor Manufacturer</b>	EDACPOWER ELEC.
<b>AC Adaptor Model Number</b>	EA-1050F-120
<b>Power Adaptor Power Rating</b>	I/P: 100-240VAC O/P: 12VDC
<b>AC Power Cord Type</b>	Unshielded, 1.8m (Detachable)
<b>DC Power Cable Type</b>	Unshielded, 1.8m (Non-Detachable, with a core) to AC Adaptor
<b>EUT I/O Cable Type</b>	Keyboard/ Mouse (one to two adaptor): Shielded, 0.1 m (Detachable)
<b>OSC/Clock Frequency</b>	100MHz; 66MHz; 65MHz; 33MHz; 25MHz; 24.576MHz

### I/O PORT OF EUT

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

*Note: Client consigns only one model sample (Model Number is AEC-6840) to test.*



### 3 TEST METHODOLOGY

#### 3.1 EUT System Operation

1. Windows 2000 boots system.
2. Run Winemc.exe then choose “C:/ & D:/ & E:/ & F:/” to test EUT.
3. Run Emctest.exe To Activate All Peripherals And Display “H” Pattern On Monitor Screen.
4. Press the start menu, select executive and type ping 192.168.0.1 -t (Server Notebook), ping 192.168.0.2 -t (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:

**Conduction(s):**

1. **1280X1024, VF=75Hz**
2. **1024X768, VF=75Hz**
3. **800X600, VF=60Hz**

**Radiation(s):**

1. **1280X1024, VF=75Hz**
2. **1024X768, VF=75Hz**
3. **800X600, VF=60Hz**
4. **1280X1024, VF=75Hz / 1-5GHz**

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 #	Serial #	FCC/BSMI ID	Trade Name
1	CPU (650MHz)	Celeron 650	RJ80530VY650256	N/A	Intel
2	HDD	2.5"HDD	20GBIC25N020ATMR04	N/A	Hitachi
3	RAM (256MB)	DD25616AKTA-6B	N/A	N/A	DSL
4	Mother Board	GENE-6350	N/A	N/A	AAEON
5	Power Supply	EA-1050F-120	N/A	N/A	EDACPOWER ELEC

**Peripherals Devices:**

No	Equipment	Model	Serial No.	FCC/ BSMI ID	Trade Name	Data Cable	Power Cord
1	PS/2 Mouse	M-BE5	LZE20309352	BSMI ID: 3892A471	Logitech	Shielded, 1.9m	N/A
2	PS/2 Keyboard	6311-TW4C16	N/A	BSMI ID: 4862A064	ACER	Shielded, 1.7m	N/A
3	Modem	5JEG4033MKO	N/A	5RJTAI-35500-M5-E	TOP-SOLUTION	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	171T	GH17H4LT6047BL	BSMI: R33475	SAMSUNG	Shielded, 1.8m with two cores	Unshielded, 1.8m
6	USB 2.0 HDD	F12-UF	N/A	BSMI ID: 4912A002	TeraSyS	Shielded, 1.7m with a core	Unshielded, 1.8m with a core
7	USB 2.0 HDD	F12-UF	N/A	BSMI ID: 4912A002	TeraSyS	Shielded, 1.7m with a core	Unshielded, 1.8m with a core
8	Modem	5JEG4033MKO	N/A	5RJTAI-35500-M5-E	TOP-SOLUTION	Shielded, 1.8m	Unshielded, 1.8m
9	Modem	5JEG4033MKO	N/A	5RJTAI-35500-M5-E	TOP-SOLUTION	Shielded, 1.8m	Unshielded, 1.8m
10	Server Notebook	M285	RD49R-7YTJR-B3C4K-G2JQX-DD3CG	BSMI: R31259 DoC	LEO	Unshielded, 20m	Unshielded, 1.8m with a core
11	Load	LAN Cable	N/A	N/A	N/A	Unshielded, 1m	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.

## 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.

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	 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

*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 # 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	09/26/2005
AMPLIFIER	SCHAFFNER	CPA9231A	3626	10/08/2005
CABLE	BELDEN	9913	N-TYPE #I1	10/08/2005
ATTENUATOR	MCL	UNAT-6	AT06-3	10/08/2005
THERMO-HYGRO METER	TFA	N/A	NO.2	11/23/2004
Above 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

*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
THERMO-HYGRO METER	TOP	HA-202	9303-1	03/24/2005

*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 (MHz)	Class A (dBuV)		Class B (dBuV)	
	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 (MHz)	Class A (dBuV/m)	Class B (dBuV/m)
	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 (MHz)	Class A (dBuV/m)		Class B (dBuV/m)	
	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
- 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 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	H

- 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)



### 7.4 TEST RESULTS

#### Line Conducted Emission

Model: AEC-6840

Test Mode: Mode 1

Temperature: 22 °C

Humidity: 69% 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.)

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)
0.185	50.37	0.11	50.48	79.00	-28.52	P	L1
2.978	48.19	0.22	48.41	73.00	-24.59	P	L1
5.221	45.07	0.34	45.41	73.00	-27.59	P	L1
0.184	47.21	0.11	47.32	79.00	-31.68	P	L2
3.140	50.31	0.23	50.54	73.00	-22.46	P	L2
5.194	43.55	0.34	43.89	73.00	-29.11	P	L2

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



**Radiated Emission**

**Model:** AEC-6840

**Test Mode:** Mode 1

**Temperature:** 26°C

**Humidity:** 70 % RH

**Test Results:** Pass

**Tested by:** Elvis Zeng

(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>Amptd (dBuV/m)</b>	<b>Margin (dB)</b>	<b>Limit (dBuV/m)</b>	<b>Reading (dBuV)</b>	<b>Factor (dB/m)</b>	<b>Reading Type (P/Q/A)</b>	<b>Pol. (H/V)</b>
<b>73.6600</b>	<b>31.72</b>	<b>-8.28</b>	<b>40.00</b>	<b>47.35</b>	<b>-15.63</b>	<b>P</b>	<b>V</b>
<b>161.5000</b>	<b>33.34</b>	<b>-6.66</b>	<b>40.00</b>	<b>44.46</b>	<b>-11.12</b>	<b>P</b>	<b>V</b>
<b>134.5900</b>	<b>31.91</b>	<b>-8.09</b>	<b>40.00</b>	<b>41.90</b>	<b>-9.99</b>	<b>P</b>	<b>H</b>
<b>228.8200</b>	<b>32.18</b>	<b>-7.82</b>	<b>40.00</b>	<b>41.67</b>	<b>-9.49</b>	<b>P</b>	<b>H</b>
<b>573.6500</b>	<b>38.53</b>	<b>-8.47</b>	<b>47.00</b>	<b>38.47</b>	<b>0.06</b>	<b>P</b>	<b>H</b>
<b>752.5500</b>	<b>40.35</b>	<b>-6.65</b>	<b>47.00</b>	<b>38.96</b>	<b>1.39</b>	<b>P</b>	<b>H</b>

*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





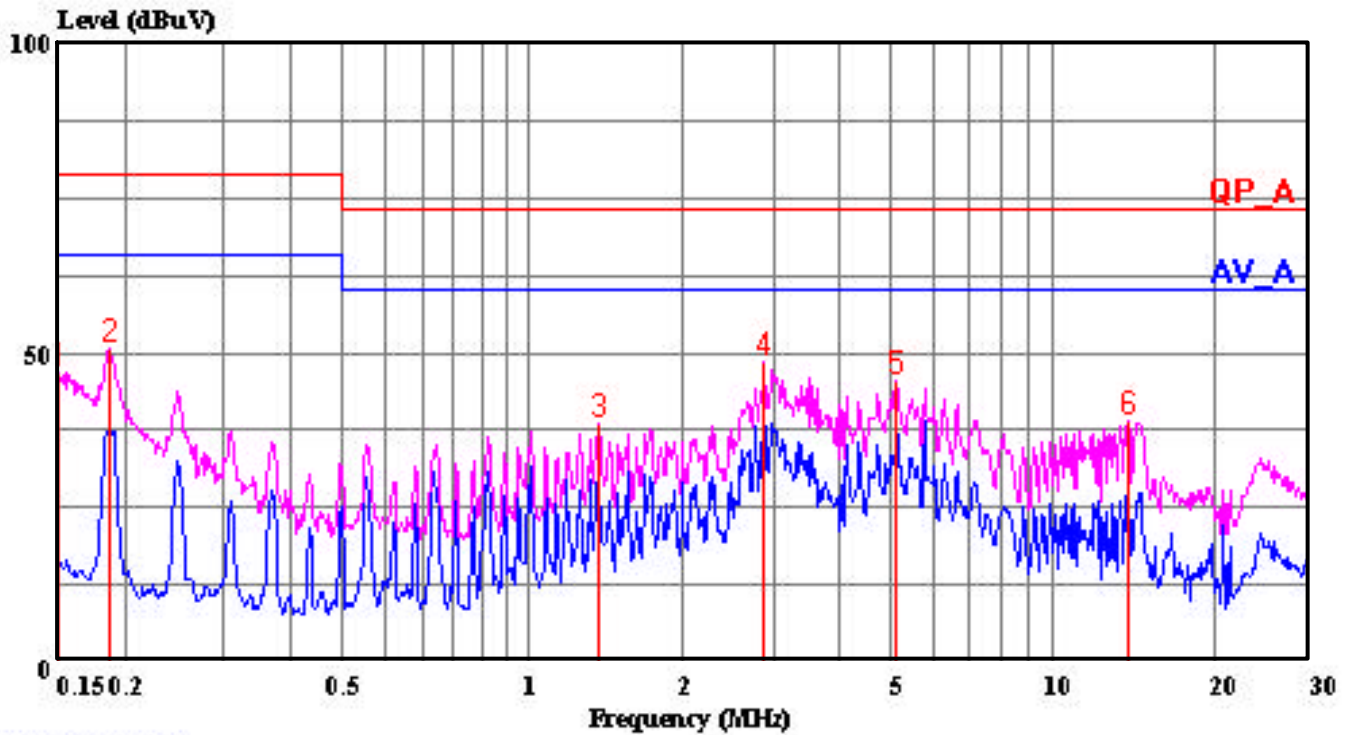
## **APPENDIX II - TEST RESULT OF FINAL DATAS**

**Conducted Emission Plot**

**Radiated Emission Data**

Data#: 7 File#: 41014411C.EMI

Date: 2004-10-15 Time: 13:20:43



**(Conduction A)**

Trace: 2 1

Ref Trace:

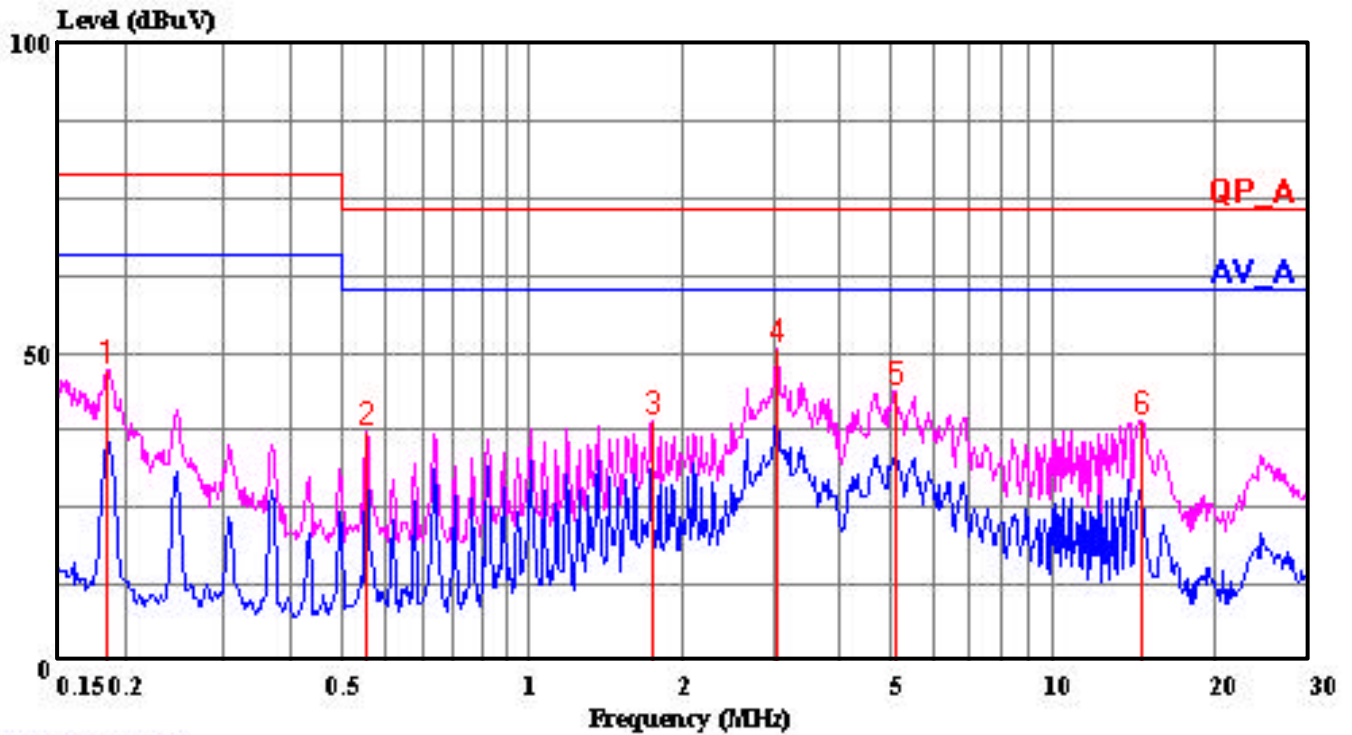
Condition: LINE  
Report No. : 41014411  
Test Engr. : Elvis Zeng  
Company : AAEON Technology Inc.  
EUT : AEC-6840  
Test Config : EUT / ALL PERIPHERALS  
Type of Test: FCC CLASS A  
Mode of Op. : 1280X1024, VF=75Hz (worst)

Page: 1

	Read	Limit	Over			
Freq	Level	Factor	Level	Line	Limit	Remark
MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.150	46.77	0.11	46.88	79.00	-32.12 Peak
2	0.185	50.37	0.11	50.48	79.00	-28.52 Peak
3	1.487	38.27	0.16	38.43	73.00	-34.57 Peak
4	2.978	48.19	0.22	48.41	73.00	-24.59 Peak
5	5.221	45.07	0.34	45.41	73.00	-27.59 Peak
6	13.915	38.13	0.61	38.75	73.00	-34.25 Peak

Data#: 10 File#: 41014411C.EMI

Date: 2004-10-15 Time: 13:26:34



**(Conduction A)**

Trace: 9 8

Ref Trace:

Condition: NEUTRAL  
Report No. : 41014411  
Test Engr. : Elvis Zeng  
Company : AAEON Technology Inc.  
EUT : AEC-6840  
Test Config : EUT / ALL PERIPHERALS  
Type of Test: FCC CLASS A  
Mode of Op. : 1280X1024, VF=75Hz (worst)

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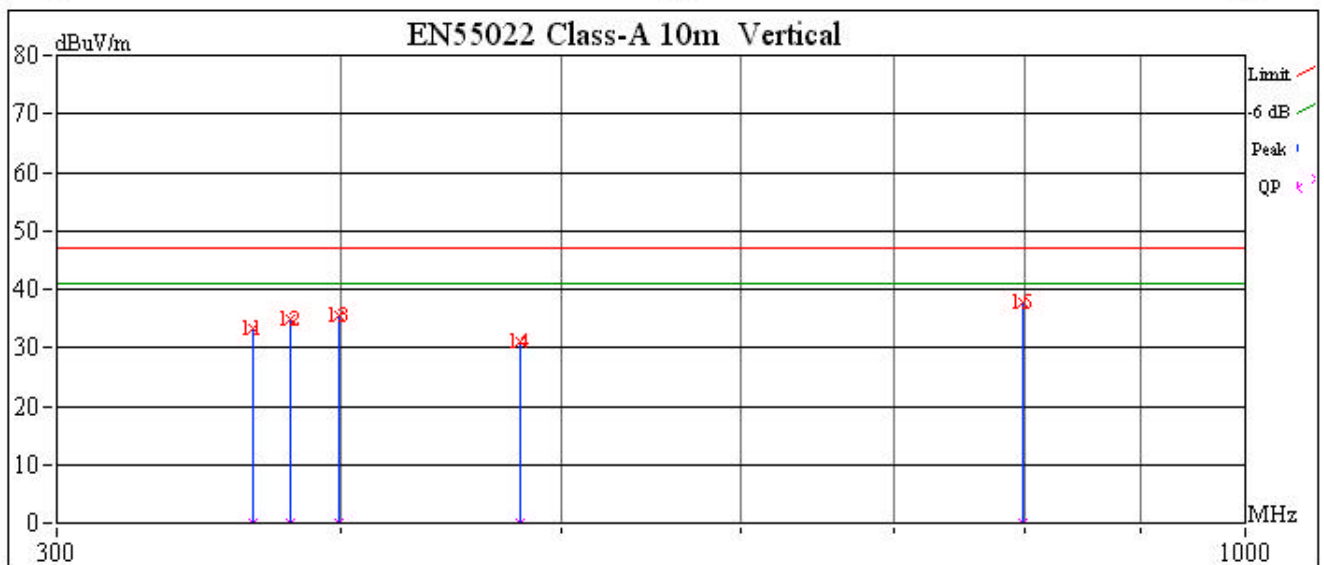
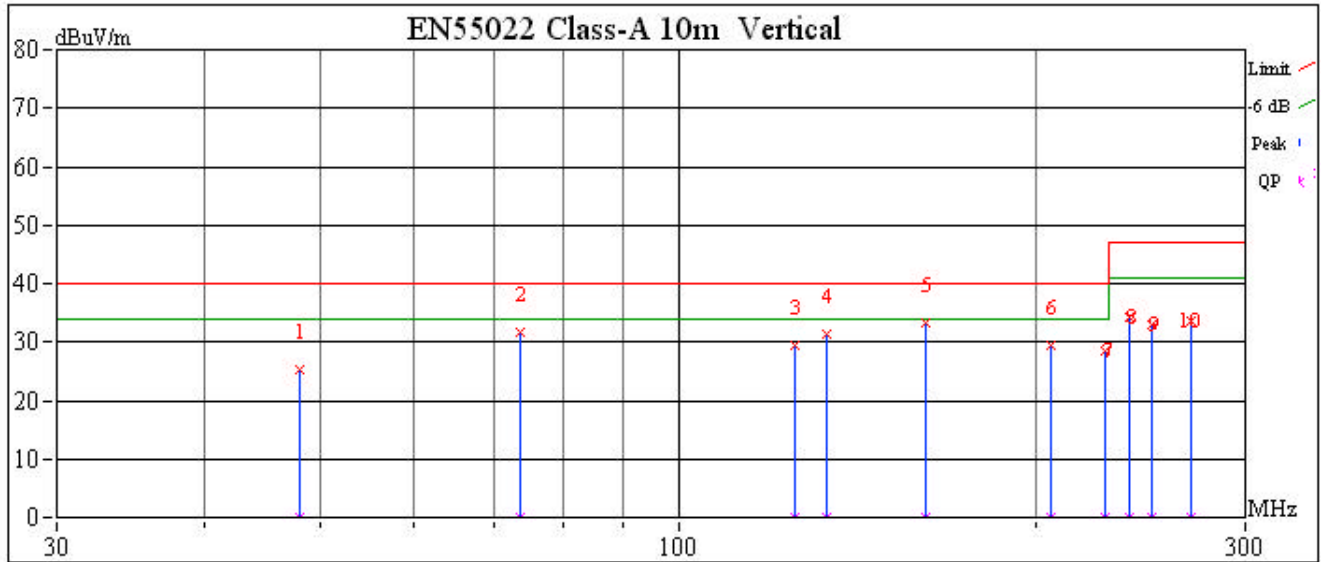
	Read Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.184	47.21	0.11	47.32	79.00	-31.68	Peak
2	0.552	36.97	0.12	37.09	73.00	-35.91	Peak
3	1.858	38.79	0.16	38.95	73.00	-34.05	Peak
4	3.140	50.31	0.23	50.54	73.00	-22.46	Peak
5	5.194	43.55	0.34	43.89	73.00	-29.11	Peak
6	14.828	38.45	0.64	39.09	73.00	-33.91	Peak

Custom Name: AAEON Technology Inc.  
 Model Name: AEC-6840  
 Test Mode: 1280X1024, VF=75Hz (worst)

Project No.: 41014411  
 Engineer Name: Elvis Zeng  
 Date: 2004-10-14

Site 1

Index:



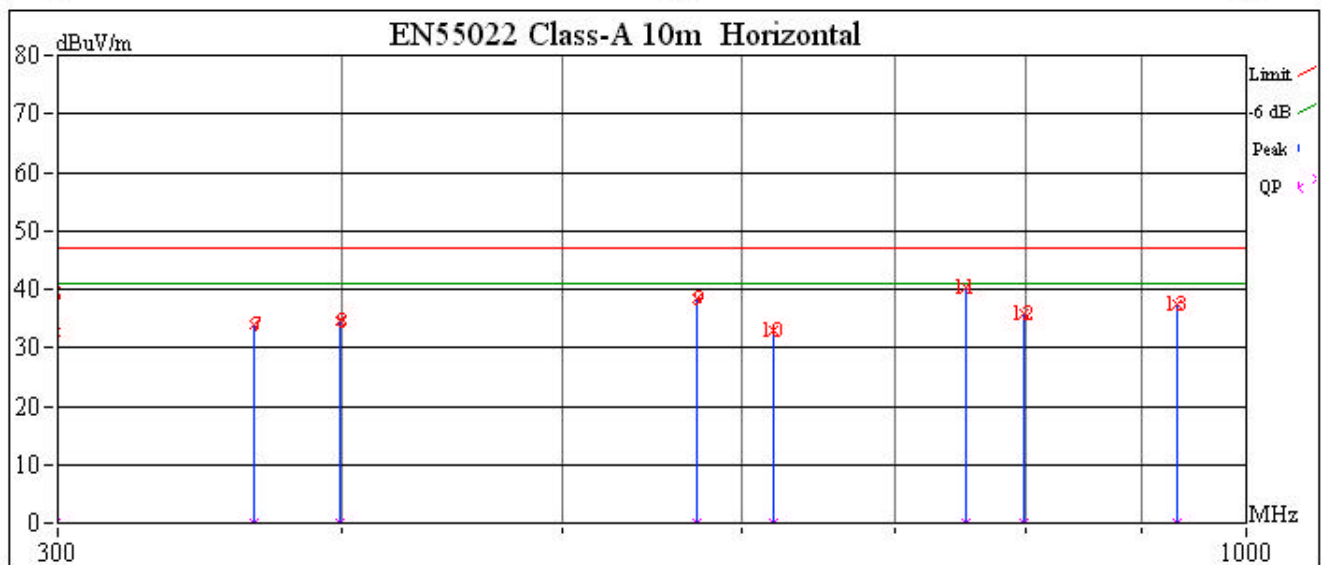
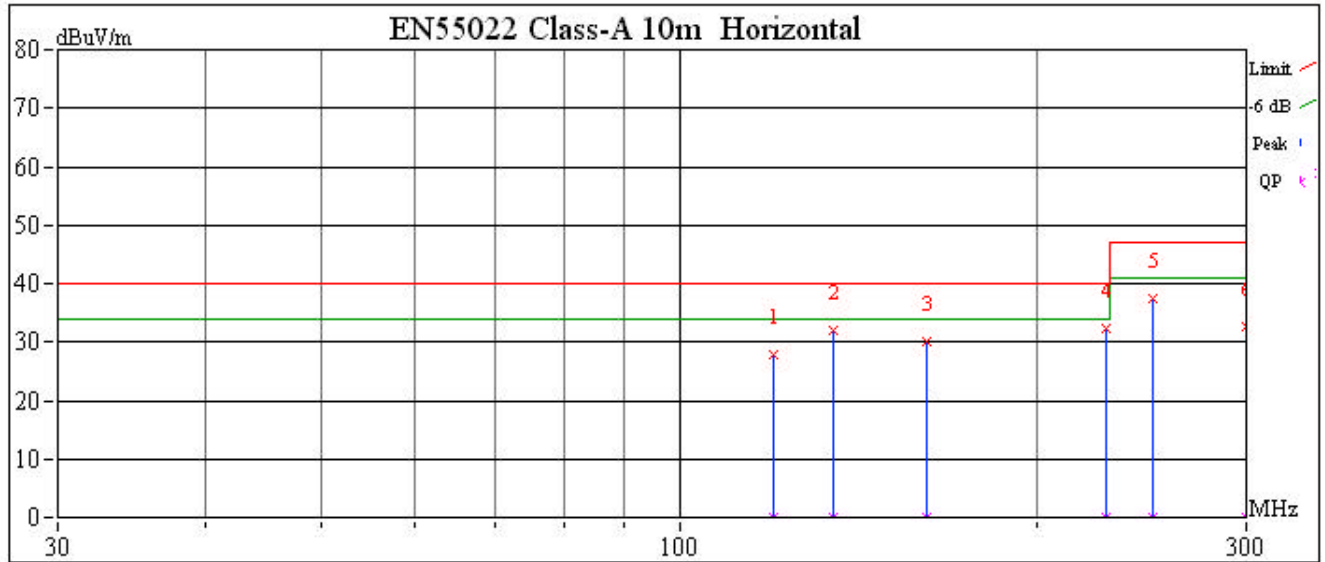
	Freq(MHz)	Peak(dBuV/m)	QP(dBuV/m)	Margin(dB)	Limit(dBuV/m)	Reading(dBuV)	Factor(dB)	Height	Degree	Comment
1	48.0000	25.37		-14.63	40.00	39.61	-14.24	100	0	
2	73.6600	31.72		-8.28	40.00	47.35	-15.63	100	0	
3	125.1600	29.58		-10.42	40.00	39.29	-9.71	100	0	
4	133.1200	31.29		-8.71	40.00	41.24	-9.95	100	0	
5	161.5000	33.34		-6.66	40.00	44.46	-11.12	100	0	
6	206.1000	29.34		-10.66	40.00	40.57	-11.23	100	0	
7	228.8000	28.48		-11.52	40.00	37.98	-9.50	100	0	
8	240.0700	34.20		-12.80	47.00	42.84	-8.64	100	0	
9	250.0000	32.85		-14.15	47.00	40.73	-7.88	100	0	
10	270.5500	33.55		-13.45	47.00	40.98	-7.43	100	0	
11	365.8800	33.44		-13.56	47.00	38.09	-4.65	100	0	
12	380.3400	34.75		-12.25	47.00	38.98	-4.23	100	0	
13	399.3700	35.66		-11.34	47.00	39.33	-3.67	398	0	
14	480.1800	31.14		-15.86	47.00	32.67	-1.53	398	0	
15	798.6000	37.63		-9.37	47.00	35.07	2.56	398	0	

Custom Name: AAEON Technology Inc.  
 Model Name: AEC-6840  
 Test Mode: 1280X1024, VF=75Hz (worst)

Project No.: 41014411  
 Engineer Name: Elvis Zeng  
 Date: 2004-10-14

Site 1

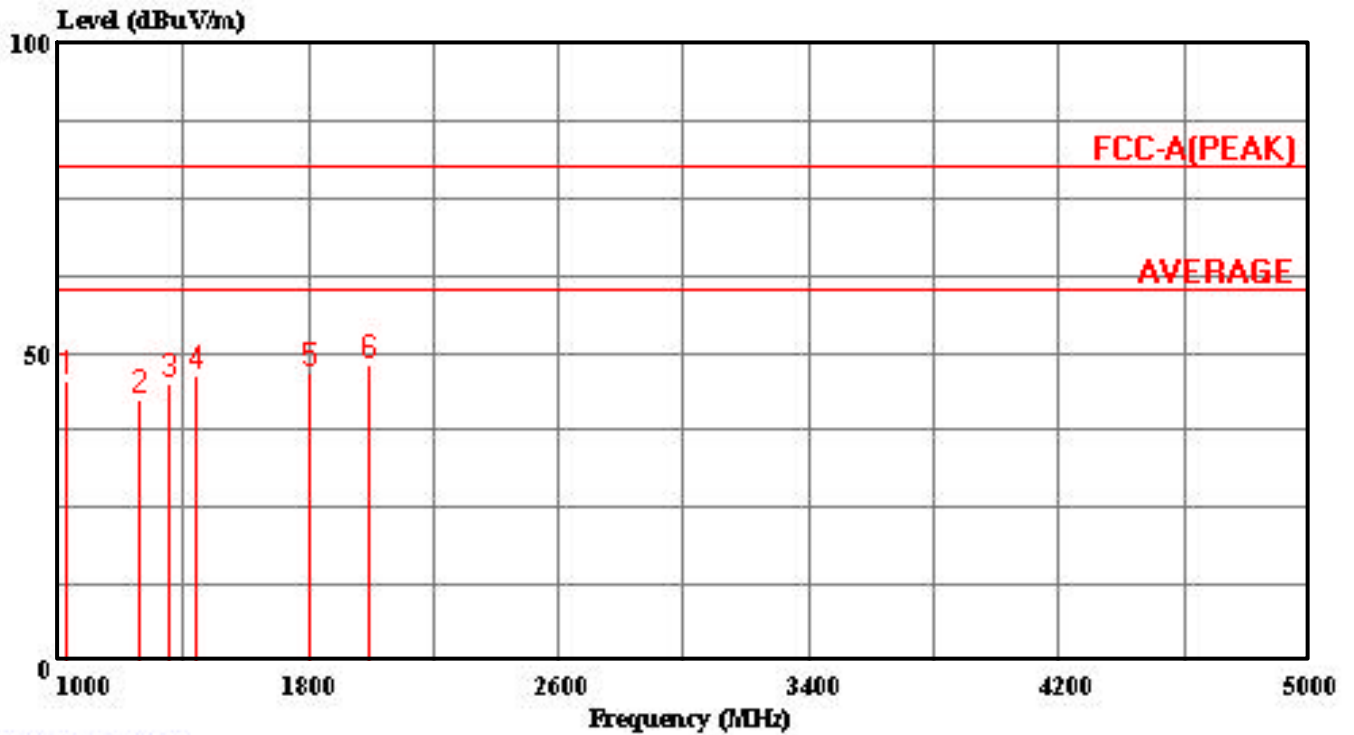
Index:



	Freq(MHz)	Peak(dBuV/m)	QP(dBuV/m)	Margin(dB)	Limit(dBuV/m)	Reading(dBuV)	Factor(dB)	Height	Degree	Comment
1	119.9600	27.76		-12.24	40.00	37.31	-9.55	398	0	
2	134.5900	31.91		-8.09	40.00	41.90	-9.99	398	0	
3	161.5100	30.18		-9.82	40.00	41.30	-11.12	398	0	
4	228.8200	32.18		-7.82	40.00	41.67	-9.49	398	0	
5	249.9900	37.32		-9.68	47.00	45.20	-7.88	398	0	
6	299.5200	32.59		-14.41	47.00	39.38	-6.79	398	0	
7	365.9800	34.07		-12.93	47.00	38.72	-4.65	398	0	
8	399.2500	34.54		-12.46	47.00	38.21	-3.67	100	0	
9	573.6500	38.53		-8.47	47.00	38.47	0.06	100	0	
10	619.7500	33.00		-14.00	47.00	32.52	0.48	100	0	
11	752.5500	40.35		-6.65	47.00	38.96	1.39	100	0	
12	798.6500	35.90		-11.10	47.00	33.33	2.57	100	0	
13	931.7000	37.60		-9.40	47.00	33.38	4.22	100	0	

Data#: 10 File#: 41014411B.EMI

Date: 2004-10-15 Time: 15:57:11



(Chamber RS)

Trace:

Ref Trace:

Condition: FCC-A(PEAK) 3m EMCO-3115(200402)-3M VERTICAL  
 Report No. : 41014411  
 Test Engr. : Elvis Zeng  
 Company : AAEON Technology Inc.  
 EUT : AEC-6840  
 Test Config : EUT / ALL PERIPHERALS  
 Type of Test: FCC CLASS A  
 Mode of Op. : 1280X1024, VF=75Hz / 1-5GHz  
 : ALL TEST DATA UNDER THE AVERAGE LIMIT

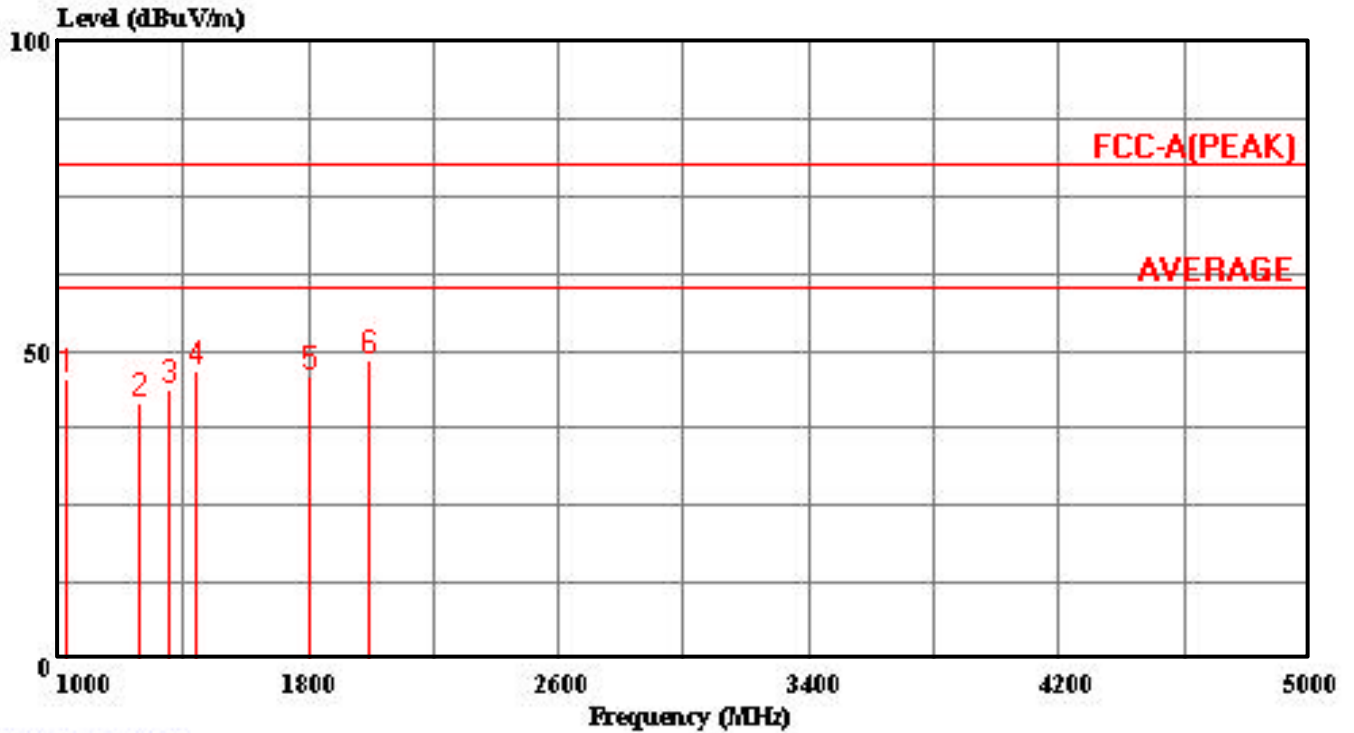
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	Read		Limit	Over		
Freq	Level	Factor	Level	Line	Limit	Remark
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1	1023.650	55.24	-9.96	45.28	80.00	-34.72 Peak
2	1259.360	51.36	-8.95	42.40	80.00	-37.60 Peak
3	1354.652	53.56	-8.55	45.01	80.00	-34.99 Peak
4	1440.387	54.38	-8.18	46.20	80.00	-33.80 Peak
5	1800.259	52.81	-5.97	46.84	80.00	-33.16 Peak
6	1995.990	52.62	-4.74	47.88	80.00	-32.12 Peak



Data#: 9 File#: 41014411B.EMI

Date: 2004-10-15 Time: 15:55:30



(Chamber RS)

Trace:

Ref Trace:

Condition: FCC-A(PEAK) 3m EMCO-3115(200402)-3M HORIZONTAL  
Report No. : 41014411  
Test Engr. : Elvis Zeng  
Company : AAEON Technology Inc.  
EUT : AEC-6840  
Test Config : EUT / ALL PERIPHERALS  
Type of Test: FCC CLASS A  
Mode of Op. : 1280X1024, VF=75Hz / 1-5GHz  
: ALL TEST DATA UNDER THE AVERAGE LIMIT

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	Read	Limit	Over			
Freq	Level	Factor	Level	Line	Limit	Remark
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1	1022.358	55.60	-9.96	45.64	80.00	-34.36 Peak
2	1258.350	50.44	-8.95	41.49	80.00	-38.51 Peak
3	1352.360	52.26	-8.55	43.71	80.00	-36.29 Peak
4	1440.358	54.78	-8.18	46.60	80.00	-33.40 Peak
5	1800.360	51.81	-5.97	45.84	80.00	-34.16 Peak
6	1996.325	53.27	-4.72	48.55	80.00	-31.45 Peak