



**FCC CFR47 PART 15 DIGITAL DEVICE**

**TEST REPORT**

**FOR**

**IPC**

**MODEL: AFW-1000**

**REPORT NUMBER: 01E9615**

**ISSUE DATE: August 01, 2001**

*Prepared for*

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*Prepared by*

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**NVLAP<sup>®</sup>**  
LAB CODE: SL2-IN-E-0005



**FCC, VCCI, CISPR, CE  
UL, CSA, TÜV, VDE**

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**1. VERIFICATION OF COMPLIANCE**



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

CONTACT PERSON: Jack Chao / Deputy Director

TELEPHONE NO: 8919-1234

MODEL NO/NAME: AFW-1000

SERIAL NO: N/A

DATE TESTED: July 23, 2001 & July 26, 2001

TYPE OF EQUIPMENT:	INFORMATION TECHNOLOGY EQUIPMENT (ITE)
MEASUREMENT DISTANCE:	( ) 3 METER (x ) 10 METER
TECHNICAL LIMIT:	Class B
FCC RULES:	PART 15
MEASUREMENT PROCEDURE	ANSI C63.4:92 / EN55022
EQUIPMENT AUTHORIZATION PROCEDURE	DECLARATION OF CONFORMITY
MODIFICATION MADE ON EUT	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
DEVIATIONS FROM MEASUREMENT PROCEDURE	<input type="checkbox"/> YES (refer to section 21 for comments) <input checked="" type="checkbox"/> NO
RADIATED EMISSION TEST RESULT	-0.54dB @ 651.304 MHz / HORIZONTAL
CONDUCTED EMISSION TEST RESULT	-14.03dB @ 0.178 MHz / L1

The above equipment was tested by Compliance Engineering Services, Inc. for compliance with the requirements set forth in the FCC CFR 47, PART 15. The results of testing in this report apply to the product/system which was tested only. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

*Approved By*

*Acknowledged By*

*Rick Yeo*

RICK YEO / EMC MANAGER  
 COMPLIANCE ENGINEERING SERVICES

Jack Chao / Deputy Director  
 AAEON Technology Inc.

## SYSTEM DESCRIPTION

### EUT Test Procedure:

1. Windows 98 Boots System.
2. Run Winemc.Exe To Activate All Peripherals And Display "H" Pattern On Monitor Screen.
3. Run ReadWrite.Exe to Link EUT and Notebook PC.
4. Data Through the EUT and Transmit Between PC Systems and Notebook PC Via RJ45 Cable.

## PRODU INFORMATION

**Housing Type:** METAL  
**EUT Power Rating:** AC 115/230, 60H/50Hz, 2/1A  
 DC +5V:10A, +12V:1.5A, -12V:0.3A  
**AC power during Test:** AC 110, 60Hz  
**Power Supply Manufacturer:** SKYNET  
**Power Supply Model Number:** SNP-8071-A  
**AC Power Cord Type:** Unshielded, 1.8m (Detachable)

**OSC/Clock Frequencies :** Y1= 25MHz , Y2= 24.576MHz , Y3= 25 MHz  
 Y4=32.768MHz, Y5= 14.318MHz

### I/O Port of EUT:

I/O PORT TYPES	Q'TY	TESTED WITH
1). DB15 Port	1	1
2). PS/2 Port	1	1
3). RJ45 Port	5	1

**Note:** N/A

## SUPPORT EQUIPMENT

### Host Computer:

No	Equipment	Model#	Serial#	FCCID	Trade Name
1.	Main Board	SBC-659 Rev: A1.0	N/A	N/A	AAEON
2.	LAN Board	PCM-3730 Rev: A0.2	N/A	N/A	AAEON
3.	HDD	ST310210A 3.21	N/A	N/A	Seagate
4.	RAM (128MB)	SD-128M	N/A	N/A	Infineon
5.	CPU	P-III 800MHz	N/A	N/A	Intel
6.	CHASSIS	AFW-1000	N/A	N/A	N/A

### External Peripheral Devices:

No	Equipment	Model #	Serial #	FCC ID	Trade Name	Data Cable	Power Cord
1.	Server PC	VIVA 686-350	N/A	DOC	VIVA	Un-Shielded, 30m	Unshielded, 1.8m
2.	Keyboard	6311-TW4C/6	N/A	DOC	ACER	Un-Shielded, 1.8m	N/A
3.	Cable (RJ45)	N/A	N/A	N/A	N/A	Un-Shielded, 1.0m x 4	N/A
4.	Monitor	1503FP	N/A	DOC	DELL	Shielded, 1.9m Two Ferrite Core	Unshielded, 1.8m

**Note:** All the above equipment/cables were placed in worse case positions to maximize emission signals.

**Grounding:** Grounding was in accordance with the manufacturer's requirements and conditions for the intended use.

## **MEASUREMENT PROCEDURE (PRELIMINARY LINE CONDUCTED EMISSION TEST)**

- 1) The equipment was set up as per the test configuration to simulate typical actual 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.
- 2) Support equipment, if needed, was placed as per ANSI C63.4.
- 3) All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.
- 4) The EUT received AC power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- 5) All support equipment received power from a second LISN supplying power of 110VAC/60Hz, if any.
- 6) The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / 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 Analyzer / 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 Analyzer / Receiver.
- 7) Analyzer / Receiver scanned from 150kHz to 30MHz for emissions in each of the test modes.
- 8) During the above scans, the emissions were maximized by cable manipulation.
- 9) The following test mode(s) were scanned during the preliminary test:

**Mode(s):**

**1. Normal Mode (Data No. : 9615E# 122, 130 ; Date: 07/23/2001)**

- 10) After the preliminary scan, we found the following test mode(s) producing the highest emission level.

**Mode(s): 1.**

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

## MEASUREMENT PROCEDURE (FINAL LINE CONDUCTED EMISSION TEST)

- 1) EUT and support equipment was set up on the test bench as per step 10 of the preliminary test.
- 2) 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 A.V. limit in Q.P. mode, then the emission signal was re-checked using an Average detector.
- 3) The test data of the worst case condition(s) was reported on the Summary Data page.

### Data Sample:

Freq (MHz)	Meter Reading (dBuV)	C.F. (dB)	Corrected Reading (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading Type (P/Q/A)	Line (L1/L2)
x.xx	x.xx	x.xx	38.38	56.00	-17.62	P	L1

C.F.(Correction Factor)=Insertion Loss + Cable Loss

Corrected Reading = Metering Reading + C.F.

Margin=Corrected Reading - Limits

P=Peak Reading

L1=Hot

Q=Quasi-peak

L2=Neutral

A=Average Reading

Comments: N/A

## LINE CONDUCTED EMISSION LIMIT

Frequency	Maximum RF Line Voltage	
	Q.P.	AVERAGE
150kHz-500kHz	66-56dBuV	56-46dBuV
500kHz-5MHz	56dBuV	46dBuV
5MHz-30MHz	60dBuV	50dBuV

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



## **MEASUREMENT PROCEDURE (PRELIMINARY RADIATED EMISSION TEST)**

- 1) The equipment was set up as per the test configuration to simulate typical actual 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 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.
- 2) Support equipment, if needed, was placed as per ANSI C63.4.
- 3) All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.
- 4) The EUT received AC power source from the outlet socket under the turntable. All support equipment received 110VAC/60Hz power from another socket under the turntable, if any.
- 5) The antenna was placed at 10 meter away from the EUT as stated in ANSI C63.4: 1992. The antenna connected to the Analyzer via a cable and at times a pre-amplifier would be used.
- 6) The Analyzer / Receiver quickly scanned from 30MHz to 1000MHz. 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.
- 7) The following test mode(s) were scanned during the preliminary test:

**Mode:**

- 1. Normal Mode (Data No. 9615F# 02, 04 ; Date: 07/23/2001)**
- 2. 1-5GHz (Data No. 9615G# 04, 08; Date: 07/26/2001)**

- 8) After the preliminary scan, we found the following test mode(s) producing the highest emission level.

**Mode(s): 1.**

Then, the EUT and cable configuration, antenna position, polarization and turntable position of the above highest emission level were recorded for reference of final testing.

## MEASUREMENT PROCEDURE (FINAL RAIDATED EMISSION TEST)

- 1) EUT and support equipment were set up on the turntable as per step 8 of the preliminary test.
- 2) The Analyzer / Receiver scanned from 30MHz to 1000MHz. 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.
- 3) 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 Peak reading is presented. If EUT emission level was less-2dB to the limit, then the emission signal was re-checked using a Q.P. detector.
- 4) The test data of the worst case condition(s) was reported on the Summary Data page.

### Data Sample:

Freq (MHz)	Meter Reading (dBuV)	C.F. (dB/m)	Corrected Reading (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading Type P/Q/A	Pol. H/V
<b>x.xx</b>	<b>x.xx</b>	<b>x.xx</b>	<b>30.82</b>	<b>37.00</b>	<b>-5.18</b>	<b>P</b>	<b>V</b>

C.F.(Correction Factor)=Antenna Factor + Cable Loss + Attenuator(3/6 dB) - Amplifier Gain

Corrected Reading = Metering Reading + C.F.

Margin=Corrected Reading – Limits

P=Peak Reading

H=Horizontal Polarization/Antenna

Q=Quasi-peak

V=Vertical Polarization/Antenna

A=Average Reading

Comments: N/A

## RADIATED EMISSION LIMIT

Frequency (MHz)	Distance (m)	Maximum Field Strength Limit (dBu V/m/ Q.P.)
30-230	10	30
230-1000	10	37

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

## SUMMARY DATA (LINE CONDUCTED TEST)

**Model Number:** AFW-1000

**Location:** Site # E

**Tested by:** Cliff Lai

**Test Model:** Mode 1

**Test Results:** Passed

**Temperature:** 28°C

**Humidity:** 63%RH

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

Frequency Range Investigated				150 kHz TO 30 MHz			
Freq (MHz)	Meter Reading (dBuV)	C.F. (dB)	Corrected Reading (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading Type (P/Q/A)	Line (L1/L2)
0.150	50.62	0.02	50.64	66.00	-15.36	P	L1
0.178	50.54	0.02	50.56	64.59	-14.03	P	L1
15.066	41.62	0.40	42.02	60.00	-17.98	P	L1
0.150	49.01	0.02	49.03	66.00	-16.97	P	L2
0.161	48.89	0.02	48.91	65.43	-16.51	P	L2
15.801	41.93	0.41	42.34	60.00	-17.66	P	L2

C.F.(Correction Factor)=Insertion Loss + Cable Loss

Corrected Reading = Metering Reading + C.F.

Margin=Corrected Reading - Limits

P=Peak Reading

L1=Hot

Q=Quasi-peak

L2=Neutral

A=Average Reading

Comments: N/A

## SUMMARY DATA

### (RADIATED EMISSION TEST)

**Model Number:** AFW-1000**Location:** Site # E**Tested by:** Cliff Lai**Polar:** Vertical / Horizontal– 10m**Test Mode:** Mode 1**Test Results:** Passed**Temperature:** 27<sup>0</sup>C**Humidity:** 64%RH

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

Frequency Range Investigated				30 MHz TO 5000 MHz			
Freq (MHz)	Meter Reading (dBuV)	C.F. (dB/m)	Corrected Reading (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading Type P/Q/A	Pol. H/V
43.820	40.00	-12.17	27.83	30.00	-2.17	P	V
167.600	40.20	-12.50	27.70	30.00	-2.30	P	V
200.020	38.67	-10.91	27.76	30.00	-2.24	Q	V
651.240	34.70	-0.80	33.90	37.00	-3.10	Q	V
201.100	38.10	-10.87	27.23	30.00	-2.77	P	H
651.304	37.26	-0.80	36.46	37.00	-0.54	Q	H

C.F.(Correction Factor)=Antenna Factor + Cable Loss + Attenuator (3dB) - Amplifier Gain

Corrected Reading = Metering Reading + C.F.

Margin=Corrected Reading - Limits

P=Peak Reading

H=Horizontal Polarization/Antenna

Q=Quasi-peak

V=Vertical Polarization/Antenna

A=Average Reading

Comments: N/A

## TEST EQUIPMENT LIST (EMISSION)

**Instrumentation:** The following list contains equipment used at Compliance Engineering Services, Inc.. for testing. The equipment conforms to the CISPR 16-1 / ANSI C63.2-1988 Specifications for Electromagnetic Interference and Field Strength Instrumentation from 9kHz to 1.0 / 2.0 GHz.

**Equipment used during the tests:**

**Open Area Test Site:** #D

Equipment	Manuf.	Model No.	Serial No.	Cal Date	Due Date
EMI TEST DISPLAY	R&S	DSAI-D 804.8932.52	827832/001	11/05/00	11/05/01
EMI TEST RF UNIT	R&S	ESBI-RF/1005.4300.52	827832/003	11/05/00	11/05/01
AMPLIFIER	HP	8447D A	2727A05764	05/07/01	05/07/02
ANTENNA	SCHWARZBECK	VULB 9160	3104	05/17/01	05/17/02
CABLE	TIME MICROWAVE	LMR-400	N-TYPE02	07/09/01	07/09/02

**Open Area Test Site:** # E

Equipment	Manuf.	Model No.	Serial No.	Cal Date	Due Date
SPECTRUM ANALYZER	H.P.	8566B	2937A06102	06/06/01	06/06/02
SPECTRUM DISPLAY	H.P.	85662A	2848A18276	06/06/01	06/06/02
QUASI-PEAK DETECTOR	H.P.	85650A	2811A01439	06/07/01	06/07/02
AMPLIFIER	H.P.	8447D B	1644A02328	05/07/01	05/07/02
ANTENNA	EMCO	3142	1310	06/30/01	06/30/02
TEST RECEIVER	R&S	ESHS20	840455/006	03/15/01	03/15/02
LISN	EMCO	3825/2	1842	01/10/01	01/10/02
LISN(EUT)	EMCO	3825/2	1435	01/10/01	01/10/02
CABLE	TIME MICROWAVE	LMR-400	N-TYPE04	07/09/01	07/09/02
ANTENNA (1-18GHz)	EMCO	3115	5761	02/23/01	02/23/02
CABLE (1-18GHz)	JYEBAO	N30-L142-1	N/A	03/02/01	03/02/02
AMPLIFIER (1-26GHz)	MITEQ	NSP2600-44	646455	02/26/01	02/26/02

The calibrations of the measuring instruments, including any accessories that may effect such calibration, are checked frequently to assure their accuracy. Adjustments are made and correction factors applied in accordance with instructions contained in the manual for the measuring instrument.

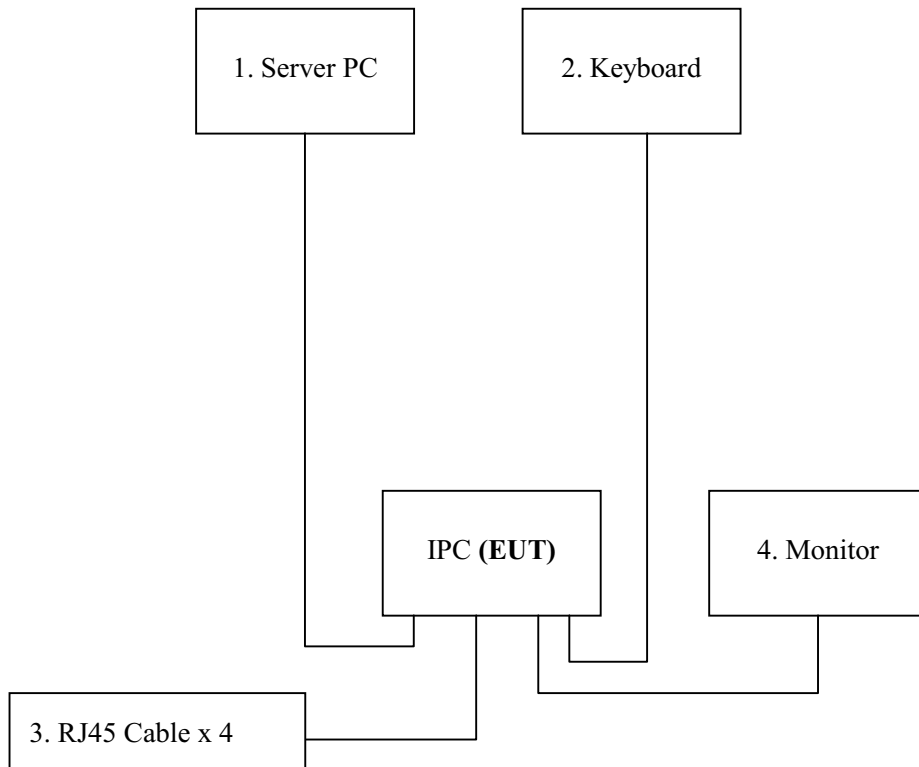
## BLOCK DIAGRAM OF TEST SETUP

### System Diagram of Connections between EUT and Simulators

**EUT: IPC**

**Trade Name: N/A**

**Model Number: AFW-1000**



## APPENDIX 1

### PHOTOGRAPHS OF TEST SETUP (TEST SETUP OF LINE CONDUCTED EMISSION )



## LINE CONDUCTED EMISSION TEST



## **APPENDIX 2**

### **PHOTOGRAPHS OF TEST SETUP (TEST SETUP OF LINE RADIATED EMISSION )**

## RADIATED EMISSION TEST



## **APPENDIX 3**

### **PHOTOGRAPHS OF EUT**



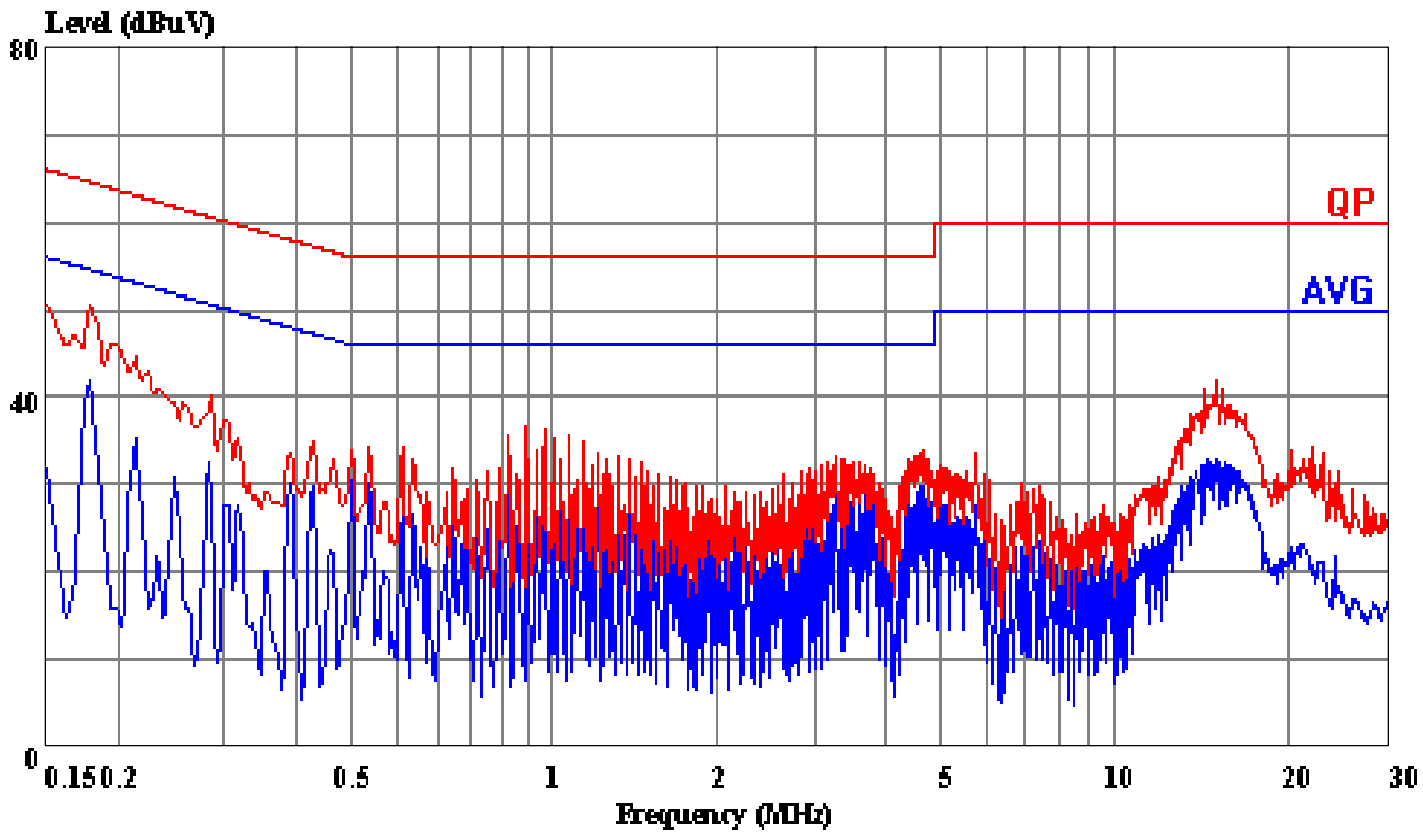


## **APPENDIX 4**

### **CONDUCTED EMISSION PLOT RADIATED EMISSION DATA**

Data#: 122 File#: 9615e.emi

Date: 2001-07-23 Time: 22:27:40



**(CES Conducted)**

Trace: 121

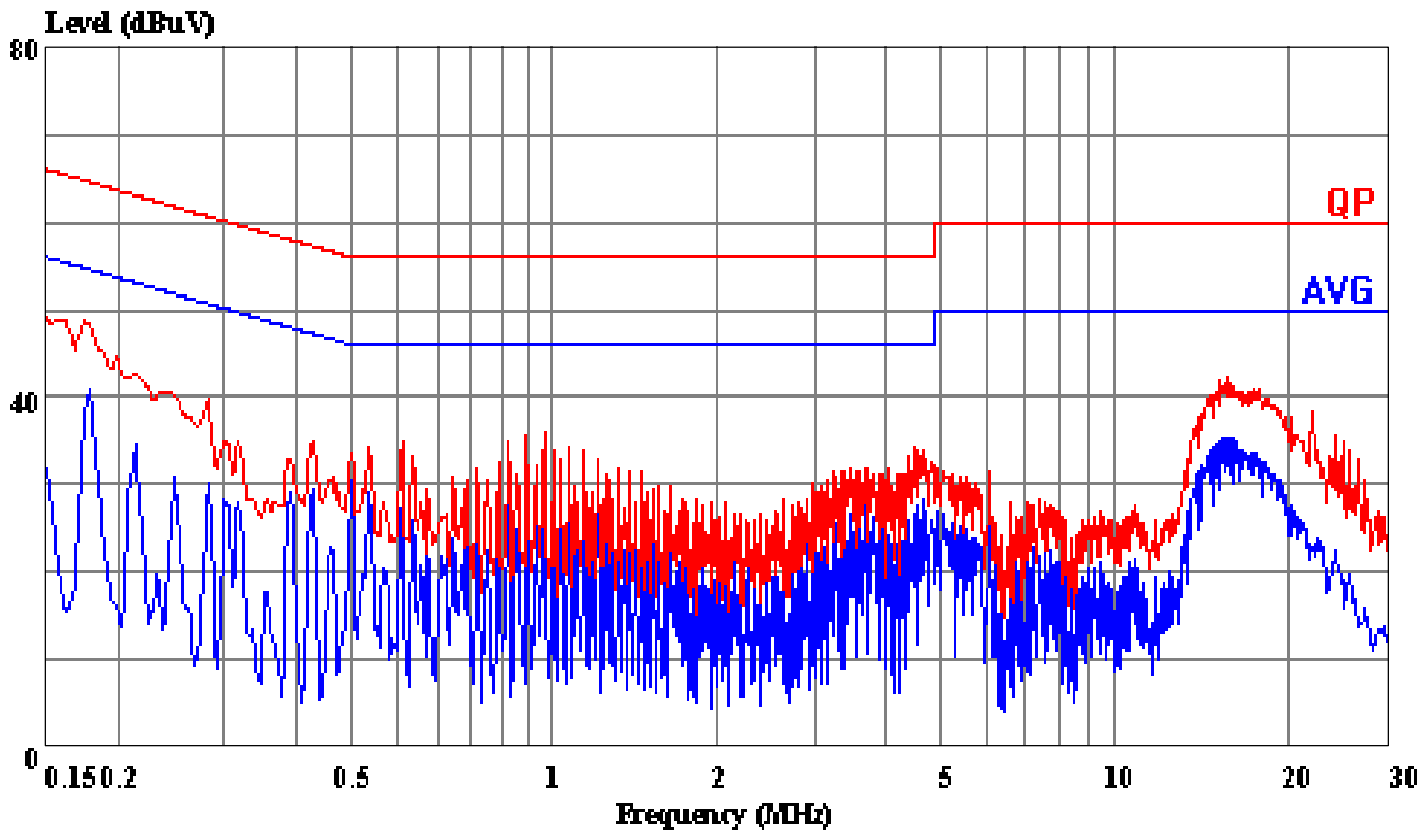
Ref Trace:

Condition: LINE  
Report No. : 01E9615  
Test Engr. : CLIFF LAI  
Company : AAEON Technology Inc.  
EUT : AFW-1000  
Test Config : EUT/ALL PERIPHERALS (HS-13)  
Type of Test: FCC CLASS B W/ EN 55022 CLASS B LIMIT  
Mode of Op. : NORMAL MODE



Data#: 130 File#: 9615e.emi

Date: 2001-07-23 Time: 22:33:59



**(CES Conducted)**

Trace: 129

Ref Trace:

Condition: NEUTRAL  
Report No. : 01E9615  
Test Engr. : CLIFF LAI  
Company : AAEON Technology Inc.  
EUT : AFW-1000  
Test Config : EUT/ALL PERIPHERALS (HS-13)  
Type of Test: FCC CLASS B W/ EN 55022 CLASS B LIMIT  
Mode of Op. : NORMAL MODE

Data#: 2 File#: 9615f.emi  
CCS E-Site

Date: 2001-07-23 Time: 21:24:23

Condition: VERTICAL  
Report No. : 01E9615  
Test Engr. : CLIFF LAI  
Company : AAEON Technology Inc.  
EUT : AFW-1000  
Test Config : EUT/ALL PERIPHERALS (HS-13)  
Type of Test: FCC CLASS B W/ EN 55022 CLASS B LIMIT  
Mode of Op. : NORMAL MODE

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	Freq	Read		Level	Limit	Over	Remark
		Level	Factor				
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1	43.820	40.00	-12.17	27.83	30.00	-2.17	Peak
2	66.800	40.40	-16.56	23.84	30.00	-6.16	Peak
3	84.910	41.50	-16.61	24.89	30.00	-5.11	Peak
4	134.110	40.60	-14.99	25.61	30.00	-4.39	Peak
5	157.480	39.20	-13.13	26.07	30.00	-3.93	Peak
6	167.600	40.20	-12.50	27.70	30.00	-2.30	Peak
7	196.860	37.10	-10.98	26.12	30.00	-3.88	Peak
8	200.020	38.67	-10.91	27.76	30.00	-2.24	QP
9	233.150	41.80	-9.49	32.31	37.00	-4.69	Peak
10	300.020	33.30	-8.52	24.78	37.00	-12.22	Peak
11	500.080	36.30	-4.56	31.74	37.00	-5.26	Peak
12	651.240	34.70	-0.80	33.90	37.00	-3.10	QP

Data#: 4 File#: 9615f.emi  
CCS E-Site

Date: 2001-07-23 Time: 21:41:07

Condition: HORIZONTAL  
Report No. : 01E9615  
Test Engr. : CLIFF LAI  
Company : AAEON Techonolgy Inc.  
EUT : AFW-1000  
Test Config : EUT/ALL PERIPHERALS (HS-13)  
Type of Test: FCC CLASS B W/ EN 55022 CLASS B LIMIT  
Mode of Op. : NORMAL MODE

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	Freq MHz	Read		Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Remark
		Level dBuV	Factor dB				
1	66.640	37.80	-16.56	21.24	30.00	-8.76	Peak
2	71.970	41.00	-17.02	23.98	30.00	-6.02	Peak
3	134.040	37.50	-14.99	22.51	30.00	-7.49	Peak
4	166.480	37.90	-12.55	25.35	30.00	-4.65	Peak
5	201.100	38.10	-10.87	27.23	30.00	-2.77	Peak
6	233.150	41.60	-9.49	32.11	37.00	-4.89	Peak
7	250.010	39.80	-8.78	31.02	37.00	-5.98	Peak
8	300.050	36.30	-8.52	27.78	37.00	-9.22	Peak
9	320.010	35.10	-7.94	27.16	37.00	-9.84	Peak
10	651.304	37.26	-0.80	36.46	37.00	-0.54	QP

Data#: 4 File#: 9615g.emi  
CES D-Site

Date: 2001-07-26 Time: 17:07:59

Condition: VERTICAL  
Report No. : 01E9615  
Test Engr. : CLIFF LAI  
Company : AAEON Technology Inc.  
EUT : AFW-1000  
Test Config : EUT / ALL PERIPHERALS (HS-13)  
Type of Test: FCC CLASS B  
Mode of Op. : 1-5GHz/Distance = 20log(1/3)

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	Freq	Read		Level	Limit	Over	Remark
		Level	Factor				
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1	1002.276	41.99	-20.80	21.19	54.00	-32.81	Average
2	1002.313	55.04	-20.80	34.24	74.00	-39.76	Peak
3	1066.924	47.40	-20.51	26.89	74.00	-47.11	Peak
4	1067.161	39.83	-20.51	19.32	54.00	-34.68	Average
5	1296.267	56.85	-19.58	37.27	54.00	-16.73	Average
6	1296.267	53.60	-19.58	34.02	74.00	-39.98	Peak
7	1414.133	54.36	-19.10	35.26	74.00	-38.74	Peak
8	1414.133	52.58	-19.10	33.48	54.00	-20.52	Average
9	2042.567	44.00	-15.95	28.05	74.00	-45.95	Peak
10	2043.038	38.69	-15.95	22.74	54.00	-31.26	Average
11	2199.767	43.57	-15.41	28.16	74.00	-45.84	Peak
12	2200.182	35.13	-15.40	19.73	54.00	-34.27	Average

Data#: 8 File#: 9615g.emi  
CES D-Site

Date: 2001-07-26 Time: 17:28:30

Condition: HORIZONTAL  
Report No. : 01E9615  
Test Engr. : CLIFF LAI  
Company : AAEON Technology Inc.  
EUT : AFW-1000  
Test Config : EUT/ ALL PERIPHERALS (HS-13)  
Type of Test: FCC CLASS B  
Mode of Op. : 1-5GHz/Distance = 20log(1/3)

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	Freq	Read		Level	Limit	Over	Remark
		Level	Factor				
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1	1134.167	56.74	-20.23	36.51	74.00	-37.49	Peak
2	1134.167	45.52	-20.23	25.29	54.00	-28.71	Average
3	1178.420	66.39	-20.06	46.33	74.00	-27.67	Peak
4	1178.533	60.15	-20.06	40.09	54.00	-13.91	Average
5	1202.667	54.33	-19.96	34.37	74.00	-39.63	Peak
6	1202.800	53.77	-19.96	33.81	54.00	-20.19	Average
7	1403.182	50.24	-19.14	31.10	74.00	-42.90	Peak
8	1403.182	51.31	-19.14	32.17	54.00	-21.83	Average
9	1809.100	51.64	-17.09	34.55	74.00	-39.45	Peak
10	1809.100	47.37	-17.09	30.28	54.00	-23.72	Average
11	2042.500	49.41	-15.95	33.46	74.00	-40.54	Peak
12	2042.500	44.40	-15.95	28.45	54.00	-25.55	Average