Verification of Compliance

Product Name	:	**Embbeded Controller**
Model Number	:	**xxxxxAEC-6821-xxxxxxx (where x is 0-9,A-Z,"-" or blank)**
Applicant	:	**AAEON Technology Inc.**
Address	:	**5F, No. 135, Lane 235, Pao Chiao Rd., Hsin-Tien City, Taipei 231, Taiwan, R.O.C**
Report Number	:	**F-U070-0902-126**
Issue Date	:	**February 25, 2009**
Applicable Standards	:	**FCC Part 15, Subpart B Class A ITE** **Industry Canada ICES-003 Issue 4** **CSA-IEC CISPR22: 02 Class A ITE**

One sample of the designated product has been tested in our laboratory and found to be in compliance with the FCC rules cited above.

NVLAP LAB CODE 200575-0

TAF 0905
FCC CAB Code TW1053
IC Code 4699A
VCCI Accep. No. R-1527, C-1609, T-131, T-1441

Central Research Technology Co.
EMC Test Laboratory
11, Lane41, Fushuen St., Jungshan Chiu,
Taipei, Taiwan, 104, R.O.C.
Tel : 886-2-25984568
Fax: 886-2-25984546

(Tsun-Yu Shih/ General Manager)

Date: February 25, 2009

FCC Test Report

for

Embbeded Controller

Model Number	**:**	**xxxxxAEC-6821-xxxxxxx**
		(where x is 0-9,A-Z,"-" or blank)
Report Number	**:**	**F-U070-0902-126**
Date of Receipt	**:**	**February 16, 2009**
Date of Report	**:**	**February 25, 2009**

Prepared for

AAEON Technology Inc.

5F, No. 135, Lane 235, Pao Chiao Rd., Hsin-Tien City, Taipei 231, Taiwan, R.O.C

Prepared by

Central Research Technology Co.

EMC Test Laboratory

11, Lane41, Fushuen St., Jungshan Chiu, Taipei, Taiwan, 104, R.O.C.

NVLAP LAB CODE 200575-0

This report shall not be reproduced, except in full, without the written approval of Central Research Technology Co.. It may be duplicated completely in its entirely for legal use with the permission of the applicant. It should not be used to claim product endorsement by NVLAP, NIST or any U.S. government agency. The test result in the report applies only to the sample tested.

Verification of Compliance

Equipment Under Test	**:**	Embbeded Controller
Model No.	**:**	xxxxxAEC-6821-xxxxxxx (where x is 0-9,A-Z,"-" or blank)
Applicant	**:**	AAEON Technology Inc.
Address	**:**	5F, No. 135, Lane 235, Pao Chiao Rd., Hsin-Tien City, Taipei 231, Taiwan, R.O.C
Applicable Standards	**:**	**FCC Part 15, Subpart B Class A ITE** **Industry Canada ICES-003 Issue 4** **CSA-IEC CISPR22: 02 Class A ITE**
Date of Testing	**:**	February 17~19, 2009
Deviation	**:**	N/A
Condition of Test Sample	**:**	Engineering Sample

We, **Central Research Technology Co**., hereby certify that one sample of the designated product was tested in our facility during the period mentioned above. The test records, data evaluation and Equipment Under Test (EUT) configurations shown in the present report are true and accurate representation of the measurements of the sample's EMC characteristics under the conditions herein specified.

The test results show that the EUT as described in the present report is in compliance with the requirements set forth in the standards mentioned above and apply to the tested sample identified in the present report only. The test report shall not be reproduced, except in its entirety, without the written approval of Central Research Technology Co.

PREPARED BY : Iris Chen , **DATE :** Feb. 25, 2009
(Iris Chen/System Executive)

APPROVED BY : J. Y. Shih , **DATE :** Feb. 25, 2009
(Tsun-Yu Shih/General Manager)

Contents

1. General Description

1.1 General Description of EUT

Equipment Under Test	:	Embbeded Controller
Model No.	:	xxxxxAEC-6821-xxxxxxx (where x is 0-9,A-Z,"-" or blank)
Power in	:	Supplied by the adapter
Adapter Specification	:	Model No. : FSP036-1AD101C Input Voltage : 100-240Vac, 50-60Hz, 1.0A Output Voltage : 12Vdc, 3A
Highest Operating Frequency	:	<1000MHz
Manufacturer	:	AAEON Technology Inc.
Function Description	:	

The EUT is an engineering sample of the Embbeded Controller. Please refer to the user's manual for the details.

The I/O ports of EUT are listed below:

No.	I/O Port Type	Quantity	Accessory
1	D-Sub port	1	--
2	USB port	4	--
3	RS232 port	2	--
4	RJ45 port	2	RJ45 to RS232 Cable
5	LAN port	2	--
6	PS/2 port	1	--
7	CF card slot	1	--
8	Printer port	1	--
9	PCMCIA card slot	1	--
10	Audio port	1	--

1.2 Test Mode

Normal operating as the customer's requirement. The monitor was connected to the EUT, and the resolution mode of the monitor was D-Sub 1024*768, V-Sync: 60Hz selected by its manufacturer to be tested herein.

1.3 Applied standards

According to the specifications of the manufacturers, the applied standard to evaluate the compliance of requirements is 47CFR Part 15, Subpart B and the measurement procedures specified in ANSI C63.4 are performed.

According to 47CFR Part 15 Section 15.33(b), the test frequency range of radiated emission measurements are listed below and the EUT herein shall be tested as:

Type of EUT	**Highest frequency generated or used in the device or on which the device operates or tunes (MHz)**	**Upper frequency of measurement range (MHz)**
☐	Below 1.705	30
☐	1.705 - 108	1000
☐	108 - 500	2000
☑	500 - 1000	5000
☐	Above 1000	5^{th} harmonic of the highest frequency or 40GHz, whichever is lower

All the test items are as following:

Applied Standards	**Test Items**	**Results**
FCC Part 15, Subpart A Class A ITE	☑ Conducted Emission Measurement	PASS
	☑ Radiated Emission Measurement	PASS

1.4 Test Setup for the EUT

The EUT is an unique unit connected with other necessary accessories and support units listed in the next section. It has been tested against each standard through the following steps:

a. Connect the EUT and all the support units to the appropriate power source.
b. Turn on the EUT and all the accessories and support units.
c. Plug in the CF and PCMCIA cards into the slot of EUT.
d. Install an EMC test software into EUT and execute it under the Windows environment.
e. The EUT sends “H” patterns to the monitor which fills the whole screen of it.
f. The EUT reads/writes messages from/to USB Flash Disks.
g. Another PC sends/ receives messages to/ from the EUT through a Hub by executing the command of “PING”.
h. Repeat and keep setup steps listed above before and during all tests.

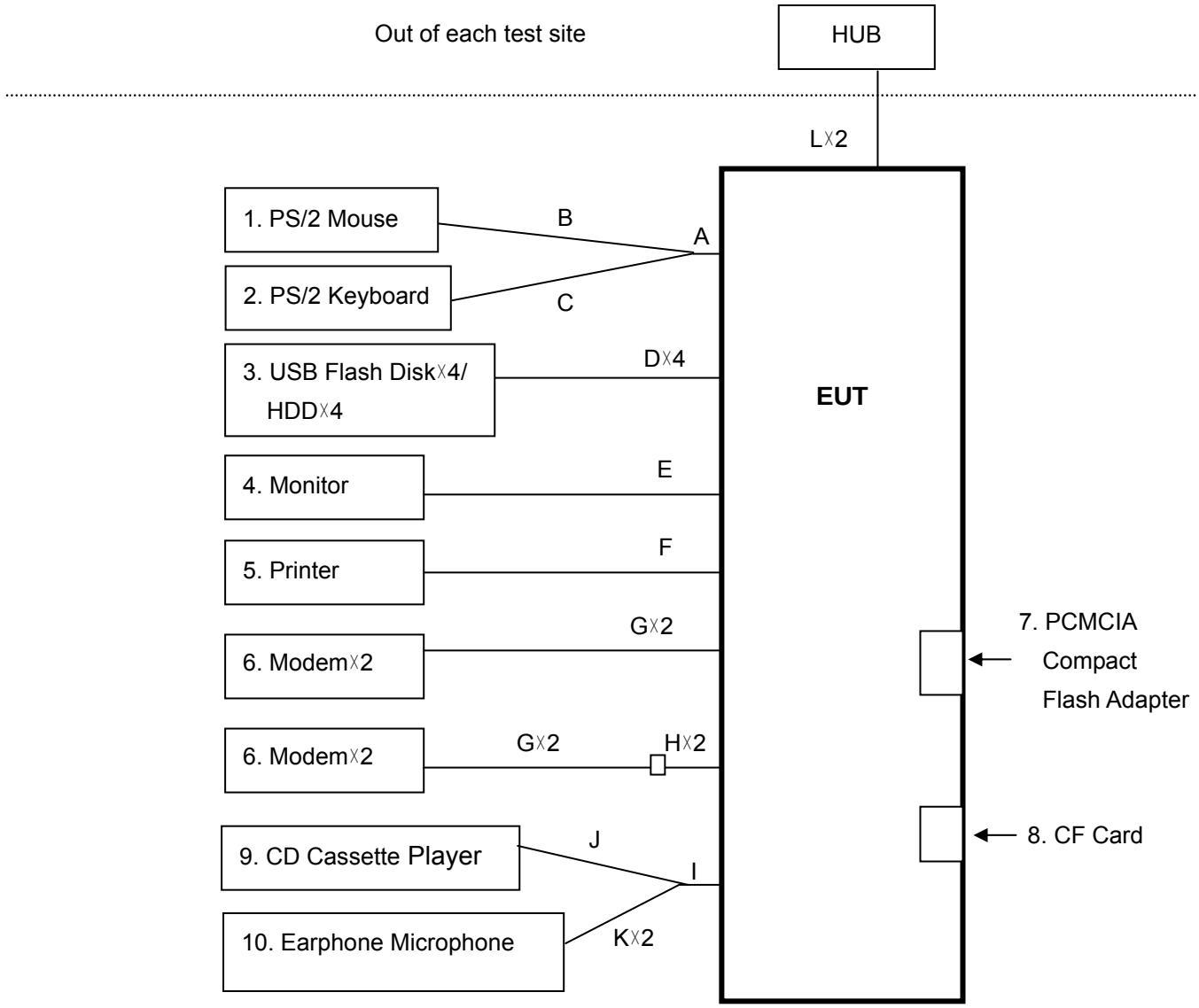
EUT I/O ports / Peripherals	Exerciser Program (software)	Version of Program
USB Flash Disks	EMC Test	V1.5
Monitor		

1.5 The Support Units

No.	Unit	Model No./ Serial No.	FCC ID	Trade Name	Power Cord	Supported by lab.
1	PS/2 Mouse	MO71KC / 515044951	DoC	DELL	N/A	✓
2	PS/2 Keyboard	SK-8110/ MY-05N456-71619-53A-0546	DoC	DELL	N/A	✓
3	USB Flash Disk	U172/ 100-057	DoC	PQI	N/A	✓
		U172/ 100-041	DoC	PQI	N/A	✓
		U172/ 100-010	DoC	PQI	N/A	✓
		U172/ 100-005	DoC	PQI	N/A	✓
4	CRT Monitor	959NF/ AQ19H2RT805829D	PN19NS	SAMSUNG	1.8m	✓
5	Printer	LQ-300+/ DCGY099001	N/A	EPSON	1.9m	✓
6	Modem	DM-1414/ 0509019804	IFAXDM1414	ACEEX	1.9m	✓
		DM-1414/ 0505012779	IFAXDM1414	ACEEX	1.9m	✓
		DM-1414/ 0509019803	IFAXDM1414	ACEEX	1.9m	✓
		DM-1414/ 0406031776	IFAXDM1414	ACEEX	1.9m	✓

7	PCMCIA Compact Flash Adapter	DSC000-DP061-1/ MX65100428	DoC	A-mego	N/A	✓
8	CF Card (32MB)	N/A	N/A	Transcend	N/A	✓
9	CD Cassette Player	SL-S22/ FA0GB18509	N/A	PANASONIC	N/A	✓
10	Earphone Microphone	KTSEP511A/ 91X541K5001079	DoC	KTNET	N/A	✓

1.6 Layout of the Setup



Connecting Cables :

No.	Cable	Length	Shielded	Core	Shielded Backshell	Supported by lab.	Note
A	PS/2 Cable	0.2m	✓				1 to 2 Ports
B	PS/2 Mouse Cable	1.8m	✓			✓	
C	PS/2 Keyboard Cable	2.0m	✓			✓	
D	USB Cable	1.8m	✓			✓	
E	Monitor VGA Cable	1.7m	✓	✓		✓	2 Cores
F	Printer Cable	1.8m	✓	✓		✓	2 Cores
G	Modem Cable	1.8m	✓	✓		✓	2 Cores
H	RJ45 to RS232 Cable	0.2m	✓				
I	Audio Cable	0.2m	✓				1 to 3 ports
J	Audio Cable	1.5m	✓			✓	
K	Audio Cable	1.8m	✓			✓	
L	LAN Cable	1.8m				✓	

1.7 Test Capability

Test Facility

The test facility used for evaluating the conformance of the EUT with each standard in the present report meets what required in CISPR16-1-4, CISPR16-2-3 and ANSI C63.4.

Test Room	Type of Test Room	Descriptions
TR1	10m semi-anechoic chamber (23m × 14m × 9m)	Complying with the NSA requirements in documents CISPR 22 and ANSI C63.4. for the radiated emission measurement.
TR11	3m semi-anechoic chamber (9m × 6m × 6m)	
TR5	Shielding Room (8m × 5m × 4m)	For the conducted emission measurement.

Test Laboratory Competence Information

Central Research Technology Co. has been accredited / filed / authorized by the agencies listed in the following table.

Certificate	Nation	Agency	Code	Mark
Accreditation Certificate	USA	NVLAP	200575-0	ISO/IEC 17025
	R.O.C. (Taiwan)	TAF	0905	ISO/IEC 17025
	R.O.C. (Taiwan)	BSMI	SL2-IN-E-0033, SL2-IS-E-0033, SL2-R1/R2-E-0033, SL2-A1-E-0033	ISO/IEC 17025
Site Filing Document	USA	FCC	474046,TW1053	Test facility list & NSA Data
	Canada	IC	4699A-1,-3	Test facility list & NSA Data
	Japan	VCCI	R-1527,C-1609,T-131,T-1441	Test facility list & NSA Data
Authorization Certificate	Germany	TUV	10021687-2007	ISO/IEC 17025
	Norway	Nemko	ELA 212	ISO/IEC 17025

The copy of each certificate can be downloaded from our web site: www.crc-lab.com

2. Conducted Emission Measurement

Test Result : PASS

2.1 Limits for Emission Measurement

☑ Limits for conducted disturbances at the power mains

Frequency (MHz)	Class A Equipment		Class B Equipment	
	Quasi-peak (dBμV)	Average (dBμV)	Quasi-peak (dBμV)	Average (dBμV)
0.15 to 0.5	79	66	66 – 56	56 – 46
0.5 to 5	73	60	56	46
5 to 30	73	60	60	50

Note 1- The lower limit shall apply at the transition frequency.
Note 2- The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5MHz for Class B equipment.

2.2 Test Instruments

Test Site and Equipment	Manufacturer	Model No./ Serial No.	Last Calibration Date	Calibration Due Date
Test Receiver	R&S	ESCS 30/ 836858/021	Jan. 13, 2009	Jan. 13, 2010
LISN	R&S	ESH2-Z5/ 836613/001	Aug. 13, 2008	Aug. 13, 2009
2nd LISN	R&S	ENV4200/ 833209/010	Jan. 13, 2009	Jan. 13, 2010
50Ω terminator	N/A	N/A/ 001	Aug. 26, 2008	Aug. 26, 2009
RF Switch	N/A	RSU28/ 338965/002	Sept. 2, 2008	March 2, 2009
RF Cable	N/A	N/A/ C0052 ~ 56	Sept. 2, 2008	March 2, 2009
Test Software	Audix	e3/ Ver. 5.2004-2-19k	NCR	NCR
TR5 shielded room	ETS LINDGREN	TR5/ 15353-F	NCR	NCR

Note:

1. The calibrations are traceable to NML/ROC.
2. NCR : No Calibration Required.

Measurement Uncertainty

The assessed measurement uncertainty with a suitable coverage factor K to ensure 95% confidence level for the normal distribution are shown as below, the values are less than U_{cispr} in table 1 of CISPR 16-4-2.

Equipment	Model Number	Uncertainty Value
LISN	ESH2-Z5	3.1dB
	ENV 4200	3.8dB

2.3 Test Procedures

a. The EUT was set up per the test configuration figured in the next section of this chapter to simulate the typical usage per the user's manual.

b. If the EUT is tabletop equipment, it was placed on a non-conducted table with a height of 0.8 meters above the reference ground plane and 0.4 meters from the conducting wall of the shielded room. Also if the EUT is floor-standing equipment, it was placed on a non-conducted support with a height of 12 millimeters above the reference ground plane.

c. Connect the EUT's power source to the appropriate power mains through the LISN.

d. All the other peripherals are connected to the 2nd LISN, if any.

e. The LISN was placed 0.8 meters from the EUT and at least 0.8 meters from other units and other metal planes.

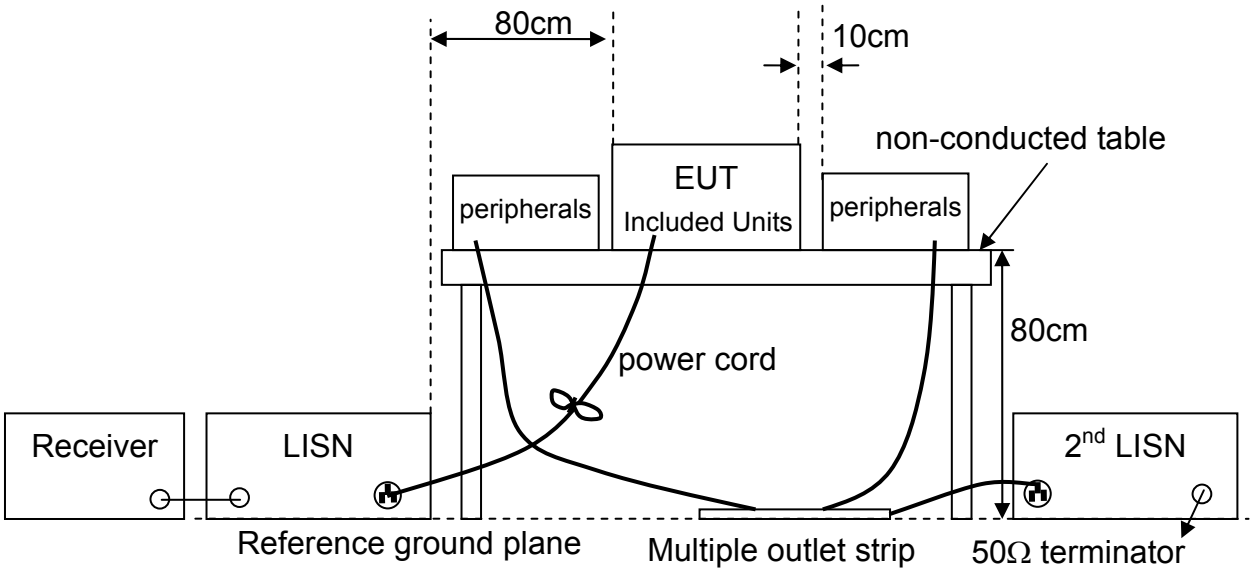
f. Measure the conducted emissions on each power line (Neutral Line and Line 1 – Hot side) of the EUT's power source by using the test receiver connected to the coupling RF output port of LISN.

g. Rapidly scan the signal from 150kHz to 30MHz by using the receiver through the Maximum-Peak detector to determine those frequencies associated with higher emission levels for each measured line.

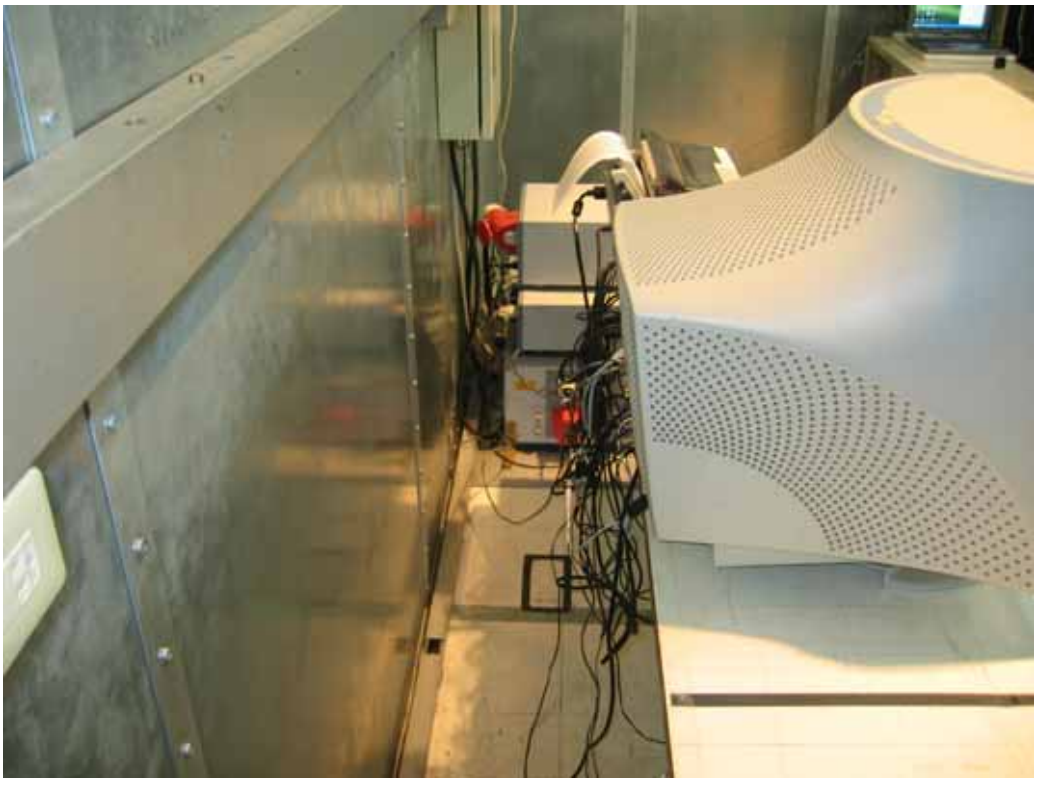
h. Then measure the maximum level of conducted disturbance for each frequency found from step g. by using the receiver through the Quasi-Peak and Average detectors per CISPR 16-1.

i. Record the level for each frequency and compare with the required limit.

2.4 Test Configurations

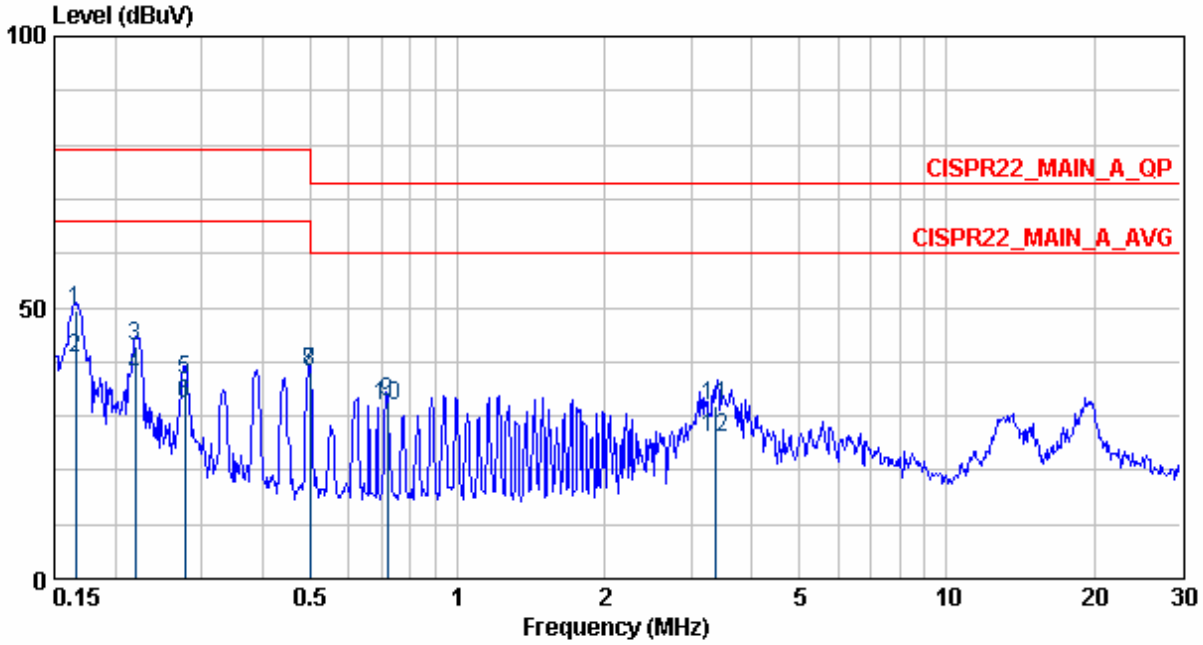


2.5 Photographs of the Test Configurations



2.6 Test Results

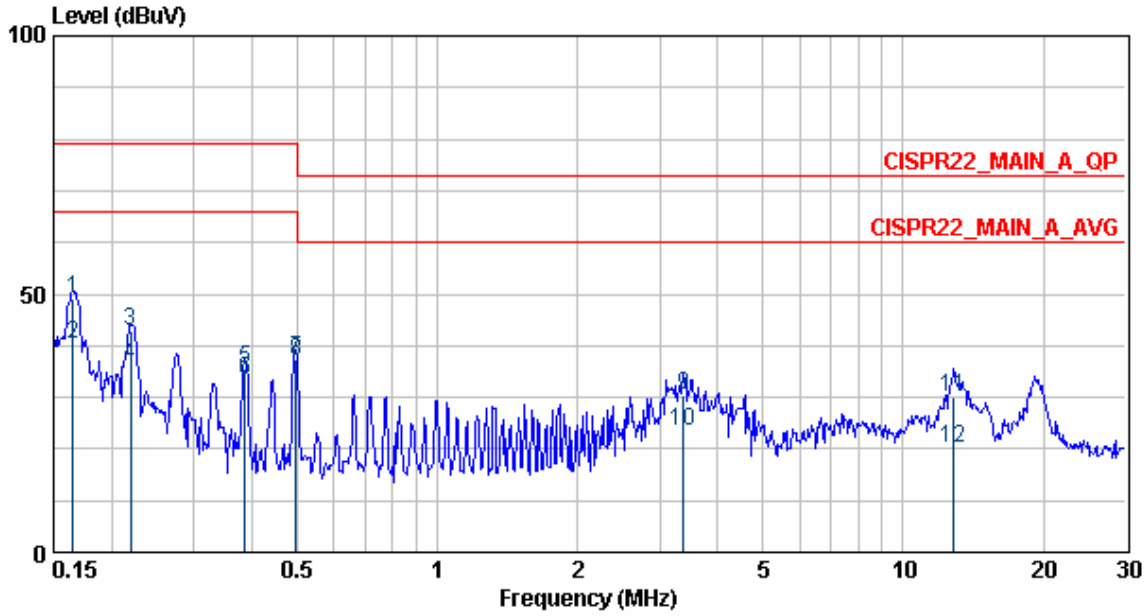
Test Mode	:	As description of section 1.2			
Test Voltage	:	120V/60Hz to the adapter			
Tester	:	Kevin Liu	**Temperature**	:	26°C
Humidity	:	61%RH	**Frequency Range**	:	150kHz~30MHz
IF Bandwidth	:	9kHz	**Phase**	:	**Line**



	Freq	Level	Factor	Read Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB		
1	0.17	49.46	0.14	49.32	79.00	-29.54	LINE	QP
2 @	0.17	40.62	0.14	40.48	66.00	-25.38	LINE	AVERAGE
3	0.22	42.95	0.15	42.80	79.00	-36.05	LINE	QP
4	0.22	37.22	0.15	37.07	66.00	-28.78	LINE	AVERAGE
5	0.28	36.56	0.15	36.41	79.00	-42.44	LINE	QP
6	0.28	32.13	0.15	31.98	66.00	-33.87	LINE	AVERAGE
7	0.50	37.95	0.16	37.79	79.00	-41.05	LINE	QP
8	0.50	37.93	0.16	37.77	66.00	-28.07	LINE	AVERAGE
9	0.72	32.58	0.17	32.41	73.00	-40.42	LINE	QP
10	0.72	31.76	0.17	31.59	60.00	-28.24	LINE	AVERAGE
11	3.38	31.91	0.34	31.57	73.00	-41.09	LINE	QP
12	3.38	25.99	0.34	25.65	60.00	-34.01	LINE	AVERAGE

Note:
1. Emission Level = reading value + correction factor.
2. Correction factor = cable loss + insertion loss of LISN.
3. Q.P. is abbreviation of quasi-peak.

Test Mode	:	As description of section 1.2			
Test Voltage	:	120V/60Hz to the adapter			
Tester	:	Kevin Liu	**Temperature**	:	26°C
Humidity	:	61%RH	**Frequency Range**	:	150kHz~30MHz
IF Bandwidth	:	9kHz	**Phase**	:	**Neutral**



	Freq	Level	Factor	Read Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB		
1	0.17	49.27	0.15	49.12	79.00	-29.73	NEUTRAL	QP
2	0.17	40.15	0.15	40.00	66.00	-25.85	NEUTRAL	AVERAGE
3	0.22	42.82	0.16	42.66	79.00	-36.18	NEUTRAL	QP
4	0.22	36.16	0.16	36.00	66.00	-29.84	NEUTRAL	AVERAGE
5	0.39	35.43	0.16	35.27	79.00	-43.57	NEUTRAL	QP
6	0.39	33.37	0.16	33.21	66.00	-32.63	NEUTRAL	AVERAGE
7	0.50	37.31	0.17	37.14	79.00	-41.69	NEUTRAL	QP
8	0.50	37.03	0.17	36.86	66.00	-28.97	NEUTRAL	AVERAGE
9	3.38	30.22	0.36	29.86	73.00	-42.78	NEUTRAL	QP
10	3.38	23.58	0.36	23.22	60.00	-36.42	NEUTRAL	AVERAGE
11	12.85	29.90	0.92	28.98	73.00	-43.10	NEUTRAL	QP
12	12.85	20.00	0.92	19.08	60.00	-40.00	NEUTRAL	AVERAGE

Note:
1. Emission Level = reading value + correction factor.
2. Correction factor = cable loss + insertion loss of LISN.
3. Q.P. is abbreviation of quasi-peak.

3. Radiated Emission Measurement

Test Result : PASS

3.1 Limits for Emission Measurement

☑ Limits for radiated disturbances below 1000MHz

Frequency (MHz)	Class A Equipment (10m distance)	Class B Equipment (3m distance)
	Quasi-peak (dBμV/m)	Quasi-peak (dBμV/m)
30 to 88	39.1	40
88 to 216	43.5	43.5
216 to 960	46.4	46
960 to 1000	49.5	54
Note 1- The lower limit shall apply at the transition frequency. Note 2- Additional provisions may be required for cases where interference occurs. Note 3- According to 15.109(g), as an alternative to the radiated emission limits shown above, digital devices may be shown to comply with the standards (CISPR), Pub. 22 shown as below.		
30 to 230	40	30
230 to 1000	47	37

☐ Limits for radiated disturbances in the frequency range 1000MHz ~ 2000MHz at a measuring distance of 10m

Frequency (GHz)	Class A Equipment		Class B Equipment	
	Peak (dBμV/m)	Average (dBμV/m)	Peak (dBμV/m)	Average (dBμV/m)
1 to 2	69.5	49.5	63.5	43.5

☑ Limits for radiated disturbances above 1000MHz at a measuring distance of 3m

Frequency (GHz)	Class A Equipment		Class B Equipment	
	Peak (dBμV/m)	Average (dBμV/m)	Peak (dBμV/m)	Average (dBμV/m)
1 to 40	80	60	74	54

3.2 Test Instruments

For Measurement below 1000MHz

Test Site and Equipment	Manufacturer	Model No./ Serial No.	Last Calibration Date	Calibration Due Date
EMI Test Receiver	R&S	ESCS 30/ 836858/020	Aug. 4, 2008	Aug. 4, 2009
Broadband Antenna	R&S	HL-562/ 360543/007	March 12, 2008	March 12, 2009
Broadband Antenna	R&S	HL-562/ 830547/010	Dec. 16, 2008	Dec. 16, 2009
Pre-Amplifier	Mini Circuit	ZKL-2/ 001	Sept. 4, 2008	March 4, 2009
Pre-Amplifier	Mini Circuit	ZKL-2/ 002	Sept. 4, 2008	March 4, 2009
Spectrum	R&S	FSP7/ 100384	Dec. 16, 2008	Dec. 16, 2009
Spectrum	R&S	FSP 7/ 100108	May 29, 2008	May 29, 2009
RF Cable	JYEBAO	0214/ C0049	July 24, 2008	July 24, 2009
RF Cable	JYEBAO	0214/ C0050	July 24, 2008	July 24, 2009
Test Software	Audix	e3/ Ver. 4.3.714.e	NCR	NCR
TR1 Semi - anechoic Chamber	ETS. LINDGREN	TR1/ 17627-B	Nov. 22, 2008	Nov. 22, 2009

Note:

1. The calibrations are traceable to NML/ROC.
2. NCR : No Calibration Required.
3. The calibration date of the semi-anechoic chamber listed above is the date of NSA measurement.

For Measurement above 1000MHz

Test Site and Equipment	Manufacturer	Model No./ Serial No.	Last Calibration Date	Calibration Due Date
EMI Test Receiver	R&S	ESCI/ 100019	Dec. 26, 2008	Dec. 26, 2009
Bi-Log Antenna	EMCO	3142C/ 52088	July 25, 2008	July 25, 2009
Horn Antenna	EMCO	3117/ 57416	Feb. 25, 2008	Feb. 25, 2009
Pre-Amplifier	Mini Circuit	ZKL-2/ 004	Feb.11, 2009	Aug.10, 2010
	MITEQ	AMF-4D-005180-24-10P/ 1072961	Dec. 19, 2008	Dec. 19, 2009
	MITEQ	AFS6-02001800-35-10P-6/ 866643	Dec. 19, 2008	Dec. 19, 2009
Spectrum Analyzer	Agilent	E4407B/ MY45106795	March 19, 2008	March 19, 2009
RF Cable	N/A	N/A/ C0080	Feb.11, 2009	Aug.10, 2010
RF Cable	N/A	N/A/ C0081	Oct. 27, 2008	April 27, 2009
Test Software	Audix	e3/ Ver. 4.3.714.e	NCR	NCR
TR11 Semi - anechoic Chamber	ETS. LINDGREN	TR11/ 906-A	June 30, 2008	June 30, 2009

Note:

1. The calibrations are traceable to NML/ROC.
2. NCR : No Calibration Required.
3. The calibration date of the semi-anechoic chamber listed above is the date of NSA measurement.

Measurement Uncertainty

The assessed measurement uncertainty with a suitable coverage factor K to ensure 95% confidence level for the normal distribution are shown as below, the values are less than U_{cispr} in table 1 of CISPR 16-4-2.

Test Site (Measuring distance)	Polarization	Frequency Range	
		30MHz ~200MHz	200MHz ~1000MHz
TR1(10m)	Horizontal	3.5dB	3.4dB
	Vertical	3.6dB	3.2dB
TR1(3m)	Horizontal	3.4dB	4.0dB
	Vertical	3.8dB	4.1dB
TR11(3m)	Horizontal	2.8dB	3.4dB
	Vertical	3.5dB	2.8dB

3.3 Test Procedures

a. The EUT was set up per the test configuration figured in the next section of this chapter to simulate the typical usage per the user's manual.

b. If the EUT is tabletop equipment, it was placed on a non-conducted table with a height of 0.8 meters above the reference ground plane in the semi-anechoic chamber. If the EUT is floor-standing equipment, it was placed on a non-conducted support with a height of 12 millimeters above the reference ground plane in the semi-anechoic chamber.

c. For the measurement of frequency below 1000MHz, the EUT was set 10m away from the interference receiving antenna for the limit of Class A equipment or CISPR 22. For Class B equipment and the measurement of frequency above 1000MHz, the EUT was set 3m away from the interference receiving antenna.

d. Rapidly sweep the signal in the test frequency range by using the spectrum through the Maximum-peak detector.

e. Rotate the EUT from 0° to 360° and position the receiving antenna at heights from 1 to 4 meters above the reference ground plane continuously to determine at least six frequencies associated with higher emission levels and record them.

f. For measurement of frequency above 1000MHz, the beamwidth of receiving horn antenna should keep covering EUT when the receiving horn antenna height varied.

g. Then measure each frequency found from step e. by using the spectrum with rotating the EUT and positioning the receiving antenna height to determine the maximum level.

h. Finely tune the antenna and turntable around the recorded position of each frequency found from step f.

i. For measurement of frequency below 1000MHz, set the receiver detector to be Quasi-Peak per CISPR 16-1 to find out the maximum level occurred.

j. For measurement of frequency above 1000MHz, set the spectrum detector to be Peak or Average to find out the maximum level occurred, if any.

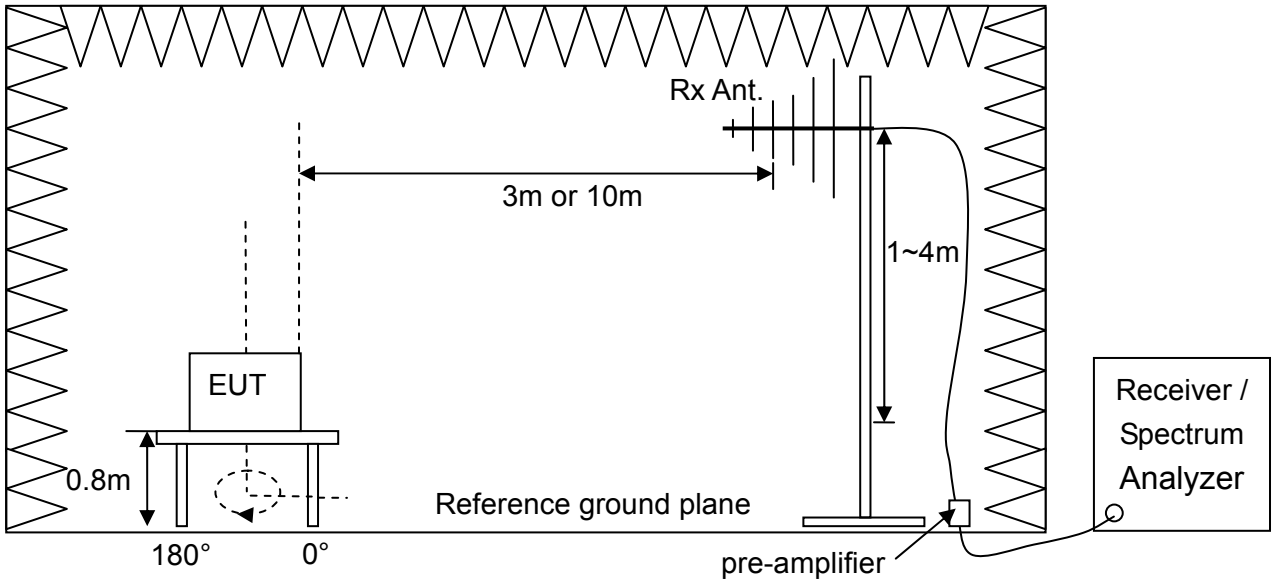
k. Record frequency, azimuth angle of the turntable, height, and polarization of the receiving antenna and compare the maximum level with the required limit.

l. Change the receiving antenna to another polarization to measure radiated emission by following step d. to k. again.

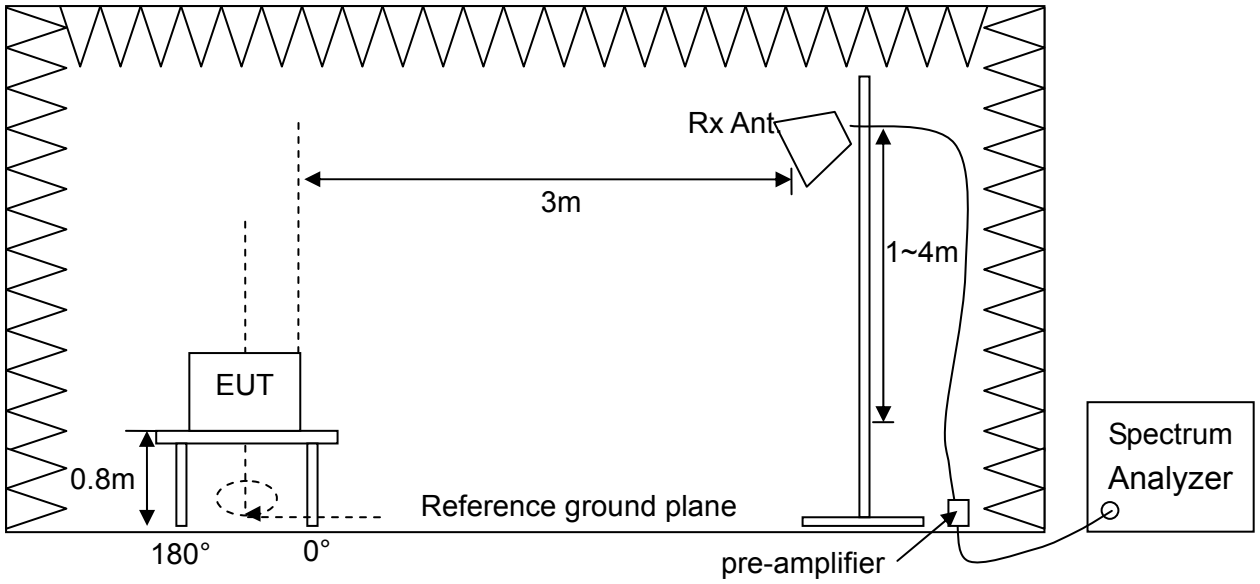
m. If the peak emission level measured from step e. is 4dB lower than the limit specified, then the emission values presented will be the peak value only. Otherwise, accurate Q.P. value will be measured and presented.

3.4 Test Configurations

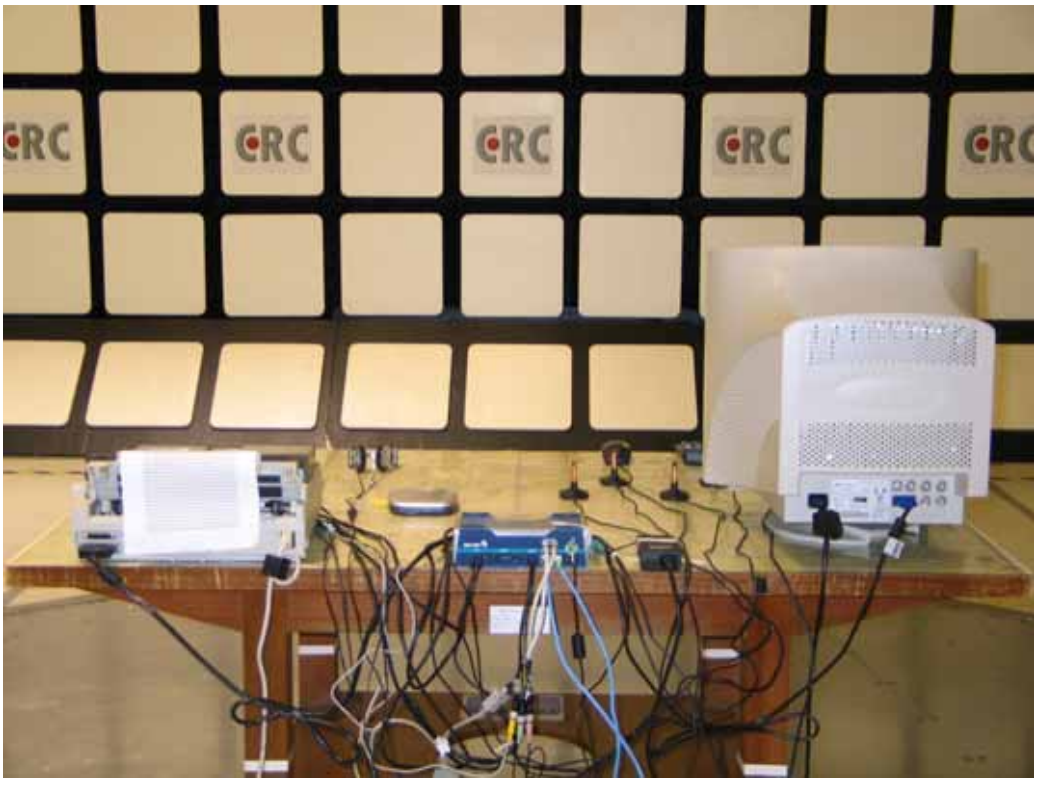
Radiated Emission Measurement below 2000MHz



Radiated Emission Measurement above 1000MHz (if any)



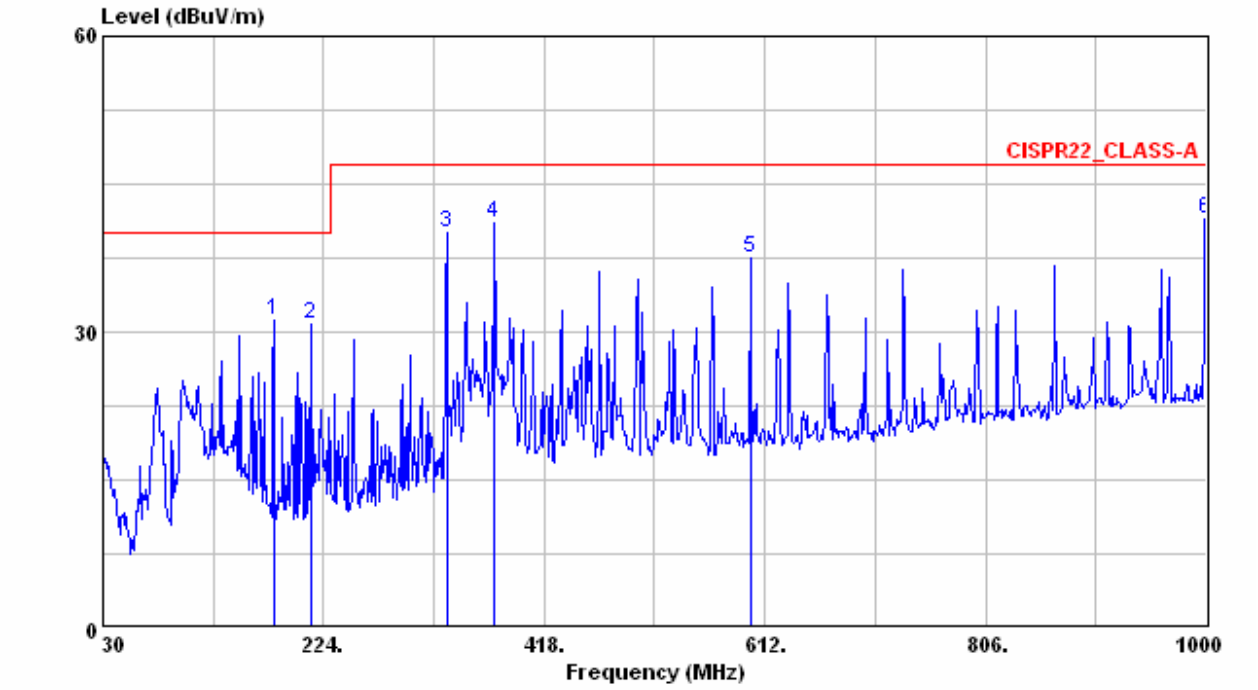
3.5 Photographs of the Test Configurations



3.6 Test Results

Radiated Emission Measurement below 1000MHz

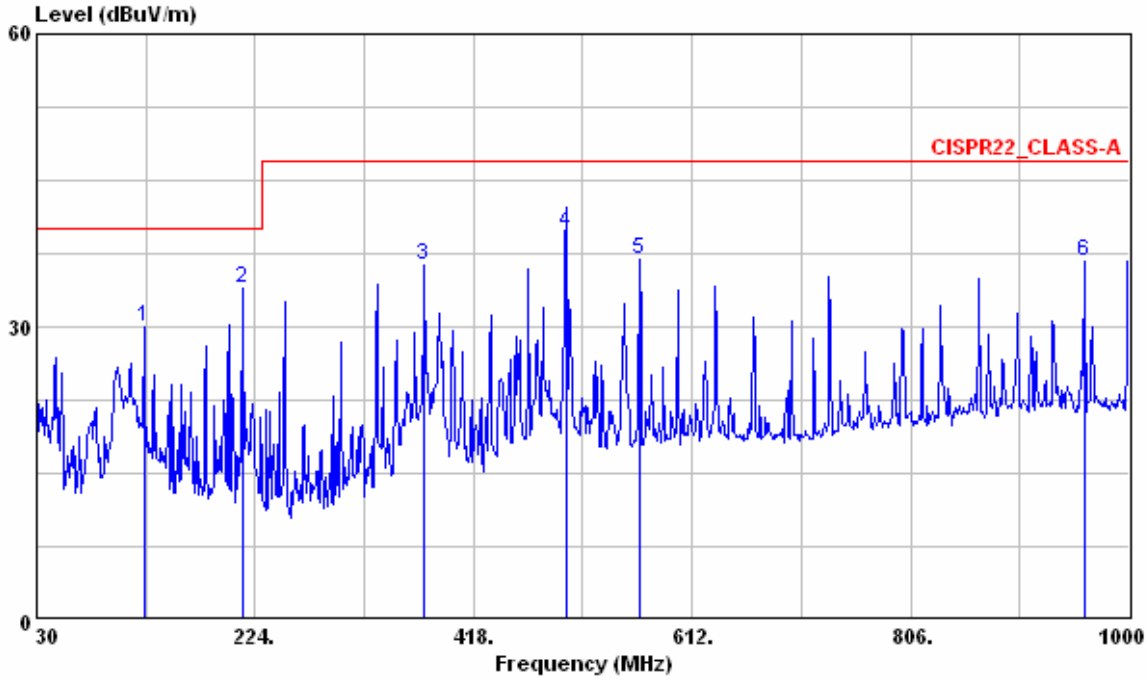
Test Mode	:	As description of section 1.2			
Test Voltage	:	120V/60Hz to the adapter			
Tester	:	Meng Lin	**Temperature**	:	24°C
Humidity	:	57%RH	**Frequency Range**	:	30MHz~1GHz
IF Bandwidth	:	120kHz	**Polarization**	:	**Horizontal**



	Freq	Level	Factor	Read Level	Limit Line	Over Limit	Ant Pos	Table Pos	Pol/Phase	Remark
	MHz	dBuV/m	dB/m	dBuV	dBuV/m	dB	cm	deg		
1	180.350	31.15	-21.28	52.43	40.00	-8.85	---	---	HORIZONTAL	Peak
2	212.360	30.75	-19.89	50.64	40.00	-9.25	---	---	HORIZONTAL	Peak
3	332.640	40.16	-15.40	55.56	47.00	-6.84	---	---	HORIZONTAL	Peak
4 @	374.350	41.02	-14.29	55.31	47.00	-5.98	---	---	HORIZONTAL	Peak
5	599.390	37.52	-8.98	46.50	47.00	-9.48	---	---	HORIZONTAL	Peak
6 @	1000.000	41.37	-2.95	44.32	47.00	-5.63	---	---	HORIZONTAL	Peak

Note:
1. Emission Level = reading value + correction factor.
2. Correction factor = cable loss + antenna factor – gain of pre-amplifier.
3. Q.P is abbreviation of quasi-peak.

Test Mode	:	As description of section 1.2			
Test Voltage	:	120V/60Hz to the adapter			
Tester	:	Meng Lin	**Temperature**	:	24°C
Humidity	:	57%RH	**Frequency Range**	:	30MHz~1GHz
IF Bandwidth	:	120kHz	**Polarization**	:	**Vertical**

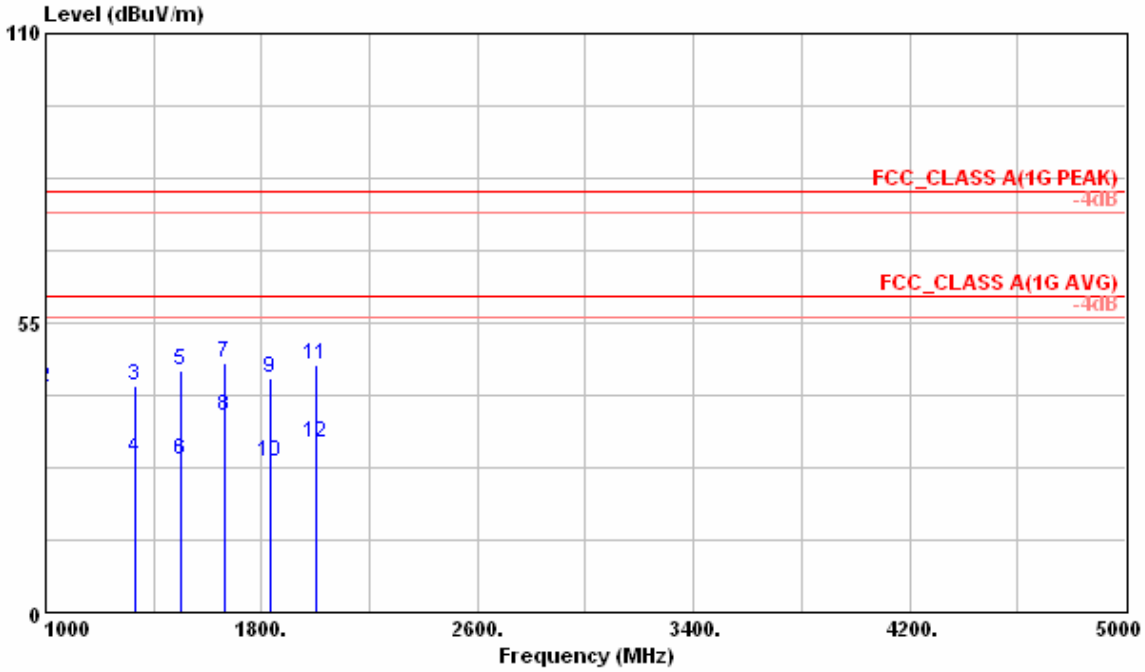


	Freq	Level	Factor	Read Level	Limit Line	Over Limit	Ant Pos	Table Pos	Pol/Phase	Remark
	MHz	dBuV/m	dB/m	dBuV	dBuV/m	dB	cm	deg		
1	125.060	29.95	-19.40	49.35	40.00	-10.05	---	---	VERTICAL	Peak
2 @	212.360	33.97	-19.99	53.96	40.00	-6.03	---	---	VERTICAL	Peak
3	374.350	36.39	-14.07	50.46	47.00	-10.61	---	---	VERTICAL	Peak
4	500.026	39.76	-10.41	50.17	47.00	-7.24	103	324	VERTICAL	QP
5	565.440	36.86	-9.10	45.96	47.00	-10.14	---	---	VERTICAL	Peak
6	960.230	36.66	-2.55	39.21	47.00	-10.34	---	---	VERTICAL	Peak

Note:
1. Emission Level = reading value + correction factor.
2. Correction factor = cable loss + antenna factor – gain of pre-amplifier.
3. Q.P is abbreviation of quasi-peak.

Radiated Emission Measurement above 1000MHz

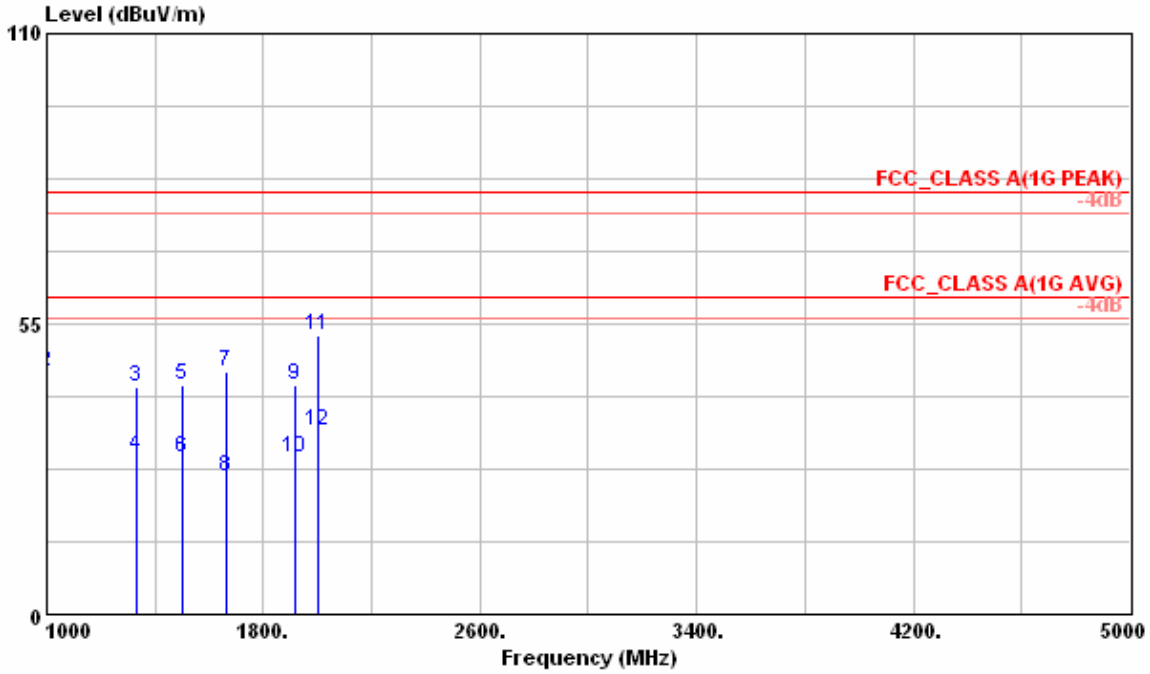
Test Mode	:	As description of section 1.2			
Test Voltage	:	120V/60Hz to the adapter			
Tester	:	Meng Lin	**Temperature**	:	23°C
Humidity	:	60%RH	**Frequency Range**	:	1GHz ~5GHz
IF Bandwidth	:	1MHz	**Polarization**	:	**Horizontal**



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Ant Pos	Table Pos	Pol/Phase	Remark
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	1000.050	50.65	84.04	-33.39	80.00	-29.35	106	166	HORIZONTAL	Peak
2	1000.050	42.81	76.20	-33.39	60.00	-17.19	106	166	HORIZONTAL	Average
3	1333.100	43.22	76.37	-33.15	80.00	-36.78	103	265	HORIZONTAL	Peak
4	1333.100	29.22	62.37	-33.15	60.00	-30.78	103	265	HORIZONTAL	Average
5	1499.925	45.82	78.82	-33.00	80.00	-34.18	101	236	HORIZONTAL	Peak
6	1499.925	28.82	61.82	-33.00	60.00	-31.18	101	236	HORIZONTAL	Average
7	1666.175	47.27	78.77	-31.50	80.00	-32.73	100	133	HORIZONTAL	Peak
8	1666.175	37.27	68.77	-31.50	60.00	-22.73	100	133	HORIZONTAL	Average
9	1832.775	44.44	74.40	-29.96	80.00	-35.56	109	141	HORIZONTAL	Peak
10	1832.775	28.44	58.40	-29.96	60.00	-31.56	109	141	HORIZONTAL	Average
11	1999.250	47.19	75.72	-28.53	80.00	-32.81	106	158	HORIZONTAL	Peak
12	1999.250	32.19	60.72	-28.53	60.00	-27.81	106	158	HORIZONTAL	Average

Note:
1. Emission Level = reading value + correction factor.
2. Correction factor = cable loss + antenna factor – gain of pre-amplifier.
3. PK. and AV. are abbreviation of peak and average respectively.

Test Mode	:	As description of section 1.2			
Test Voltage	:	120V/60Hz to the adapter			
Tester	:	Meng Lin	**Temperature**	:	23°C
Humidity	:	60%RH	**Frequency Range**	:	1GHz~5GHz
IF Bandwidth	:	1MHz	**Polarization**	:	**Vertical**



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Ant Pos	Table Pos	Pol/Phase	Remark
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	1000.050	50.65	84.04	-33.39	80.00	-29.35	100	95	VERTICAL	Peak
2 @	1000.050	46.11	79.50	-33.39	60.00	-13.89	100	95	VERTICAL	Average
3	1332.700	43.09	76.24	-33.15	80.00	-36.91	101	185	VERTICAL	Peak
4	1332.700	30.09	63.24	-33.15	60.00	-29.91	101	185	VERTICAL	Average
5	1499.750	43.52	76.52	-33.00	80.00	-36.48	101	223	VERTICAL	Peak
6	1499.750	29.52	62.52	-33.00	60.00	-30.48	101	223	VERTICAL	Average
7	1665.580	46.01	77.51	-31.50	80.00	-33.99	118	178	VERTICAL	Peak
8	1665.580	26.01	57.51	-31.50	60.00	-33.99	118	178	VERTICAL	Average
9	1920.137	43.49	72.65	-29.16	80.00	-36.51	139	348	VERTICAL	Peak
10	1920.137	29.49	58.65	-29.16	60.00	-30.51	139	348	VERTICAL	Average
11	1999.700	52.91	81.43	-28.52	80.00	-27.09	150	155	VERTICAL	Peak
12	1999.700	34.91	63.43	-28.52	60.00	-25.09	150	155	VERTICAL	Average

Note:
1. Emission Level = reading value + correction factor.
2. Correction factor = cable loss + antenna factor – gain of pre-amplifier.
3. PK. and AV. are abbreviation of peak and average respectively.

Attachment 1
Photographs of EUT


BOXER
USB
PCMCIA
AUDIO
COM3/COM4
DC-IN
LAN1
LAN2


Parallel
CFD
Reset
HDD/SYS
VGA
KB/MS
USB


788DB

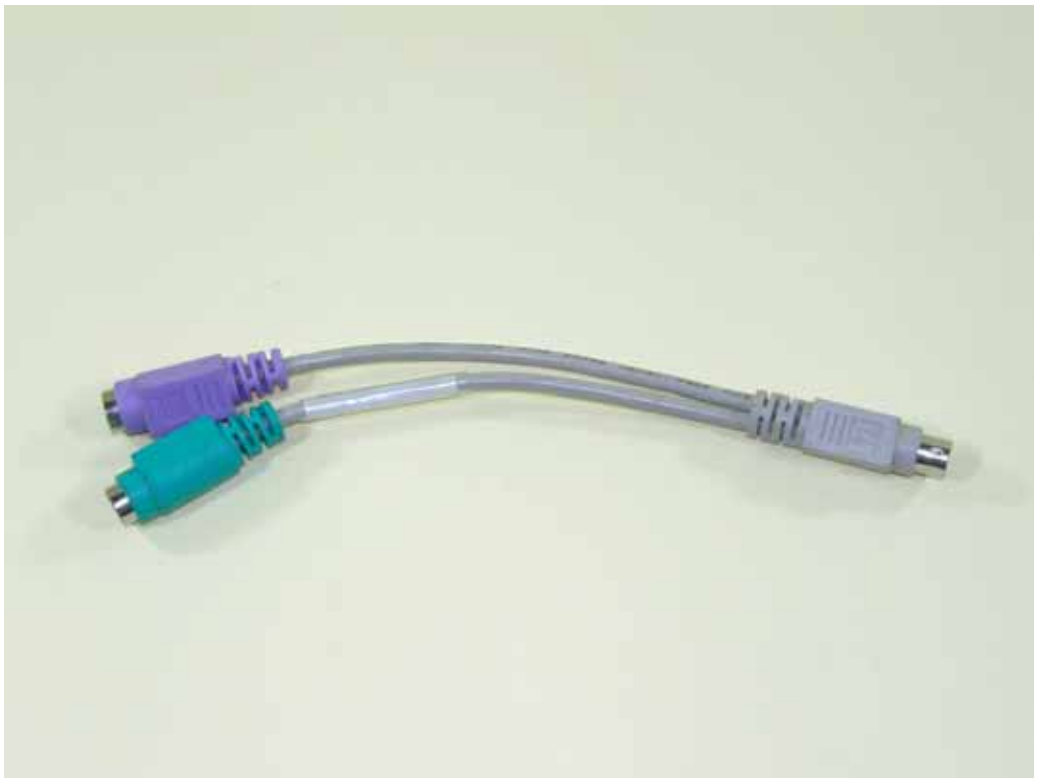

788DB


7B8DB
AMD
Geode

Adapter


FSP GROUP INC.
AC/DC Adapter
MODEL NO(型号): FSP036-1AD101C
AC INPUT(交流输入): 100-240V~, 1.0A, 50-60Hz
DC OUTPUT(直流输出):
12.0V 3.0A MAX (36W MAX)
CAUTION:
FOR INDOOR USE ONLY.
For use with information Technology Equipment.
ATTENTION:
Pour matériel informatique technologie.
Endast för kontormaskin.
"Apparatet må kun tilkoples Jordet stikkontakt."
"Apparaten skall anslutas till Jordat uttag när den ansluts till ett nätverk"
Nur innerhalb von Gebäuden benutzen.
Nur zur Verwendung mit informationstechnischen Einrichtungen.
Tested to Comply With FCC Standards
FOR HOME OR OFFICE USE
LISTED I.T.E. L.P.S. E190414
A/S: +886-3-375-9888
Made in China - Zhonghan Electronics(Shenzhen) Co., Ltd.
MADE IN CHINA
6LL028900XGP

Support units supplied by the manufacturer



Attachment 2
Modifications of EUT

Statement of the EUT Modifications

According to the rules of ANSI C63.4-2003 clause 10.1.13, the following equipment (EUT):

Product	**:**	Embbeded Controller
Model No.	**:**	xxxxxAEC-6821-xxxxxxx (where x is 0-9,A-Z,"-" or blank)
Manufacturer	**:**	AAEON Technology Inc.
Address	**:**	5F, No. 135, Lane 235, Pao Chiao Rd., Hsin-Tien City, Taipei 231, Taiwan, R.O.C

☐ should be **without** any modifications made

☐ should be **with** some modifications made

to bring the EUT into compliance with the appropriate specifications (47CFR Part 15, Subpart B). If any, the details of the modifications including the complete descriptions, reasons and so on are described in next page of this report.

We , **AAEON Technology Inc.** hereby ensure that the product specified above will have all of the modifications incorporated in the product when manufactured and placed on the market.

The following importer or manufacturer is responsible for this statement:

Company Name : _____

Company Address : _____

Telephone : _____ E-mail : _____

Legal Signature of the responsible personal:

_____ _____

Title / Name (full name) Date

The details of the modifications:

Item	Solution Component	Specifications	Manufacturer	Quantity	Reasons
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

If needed, some modification items are shown in the photographs in the following.