Verification of Compliance

Product Name	:	**Advanced System Controller**
Model Number	:	**xxxxAIS-Q574xx-xxx-xxxxxxx**
		(Where x is 0-9 , A-Z , -or blank) for marketing purpose)
Applicant	:	**AAEON Technology Inc.**
Address	:	**5F,NO.135,Lane 235,Pao Chiao Rd. Hsin-Tien Dist,New Taipei City,Taiwan,R.O.C.**
Report Number	:	**F-U070-1103-210**
Issue Date	:	**April 14, 2011**

Applicable Standards : **FCC Part 15, Subpart B Class A ITE**
ANSI C63.4:2003
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, G-10

Central Research Technology Co.
EMC Test Laboratory
11, Lane 41, Fushuen St., Jungshan Chiu,
Taipei, Taiwan, 104, R.O.C.
Tel : 886-2-25984568
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(Sam Chien / Laboratory Head)
Date: April 14, 2011

FCC Test Report

for

Advanced System Controller

Model Number	**:**	**xxxxAIS-Q574xx-xxx-xxxxxxx (Where x is 0-9，A-Z，-or blank) for marketing purpose)**
Report Number	**:**	**F-U070-1103-210**
Date of Receipt	**:**	**March 25, 2011**
Date of Report	**:**	**April 14, 2011**

Prepared for

AAEON Technology Inc.

5F,NO.135,Lane 235,Pao Chiao Rd. Hsin-Tien Dist,New Taipei City,Taiwan,R.O.C.

Prepared by

Central Research Technology Co.

EMC Test Laboratory

11, Lane 41, Fushuen St., Jungshan Chiu, Taipei, Taiwan, 104, R.O.C.

NVLAP LAB CODE 200575-0

Verification of Compliance

Equipment Under Test	**:**	Advanced System Controller
Model No.	**:**	xxxxAIS-Q574xx-xxx-xxxxxxx (Where x is 0-9，A-Z，-or blank) for marketing purpose)
Applicant	**:**	AAEON Technology Inc.
Address	**:**	5F,NO.135,Lane 235,Pao Chiao Rd. Hsin-Tien Dist, New Taipei City,Taiwan,R.O.C.
Applicable Standards	**:**	**FCC Part 15, Subpart B Class A ITE** **ANSI C63.4:2003** **Industry Canada ICES-003 Issue 4** **CSA-IEC CISPR22: 02 Class A ITE**
Date of Testing	**:**	April 1~April 8, 2011
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 : Rosa Hsieh (Rosa Hsieh/System Executive) , **DATE :** April 14, 2011

APPROVED BY : Sam Chien (Sam Chien / Laboratory Head) , **DATE :** April 14, 2011

Contents

1. General Description

1.1 General Description of EUT

Equipment Under Test	:	Advanced System Controller
Model No.	:	xxxxAIS-Q574xx-xxx-xxxxxxx (Where x is 0-9，A-Z，-or blank) for marketing purpose
Power in	:	100VAC-240VAC, 50-60Hz
Highest Operating Frequency	:	3.33GHz from the test specification
Manufacturer	:	AAEON Technology Inc.
Function Description	:	

The EUT is an engineering sample of the Advanced System 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
1	USB port	8
2	D-Sub port	1
3	DVI port	1
4	PS2 port	2
5	RS232 port	2
6	LAN port	2
7	Audio input port	1
8	MIC port	1
9	Audio output port	1

All the devices supplied by the manufacturer are listed below to be equipped a host system for testing in this report.

Components	Specification
M/B	xxxxIMBI-Q57xx-xxx-xxxxxxx (Where x is 0-9，A-Z，-or blank) for marketing purpose
CPU	INTEL I5 660 3.33GHz
Memory	DSL DDR3-1066 2GB/ELPIDA J1108BABG-DJ-E
SATA HDD	Seagate ST3250318AS 250GB
DVD-ROM	Sony，M/N：AD-7585H
OSC	14.31818MHz；25MHz；32.768KHZ
AC/DC Power Supply	CWT，M/N：PSM275H 275Watt EUT POWER RATING：+3.3VDC；+5VDC；±12VDC；5VSB AC Power Supply During test：100VAC-240VAC

1.2 Test Mode

Normal operating as the customer's requirement. The EUT was tested with display mode: DVI + D-Sub 1920 x 1200 @60Hz.

1.3 Applied standards

According to the specifications of the manufacturer and the requirements set in 47CFR Part 15, Subpart B, the applied standards to evaluate the compliance of the EUT are as following, and the measurement procedures specified in ANSI C63.4: 2003 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 B 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 after the following setup 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. Install an EMC test software into EUT and execute it under the Windows environment.
d. The EUT sends “H” patterns to the monitor, which fills the whole screen of it.
e. The EUT sends messages to the modems.
f. The EUT reads/writes messages from/to the USB Flash Disk(s).
g. The EUT sends 1kHz audio signal to the earphone.
h. Another PC sends/ receives messages to/ from the EUT through a Hub by executing the command of “PING”.
i. Repeat and keep setup steps listed above before and during all tests.

EUT I/O ports / Peripherals	Exerciser Program (software)	Version of Program
EUT	BurnIn Test.exe	V 6.0
Monitor		
USB Flash Disk(s)		
Modem		

1.5 The Support Units

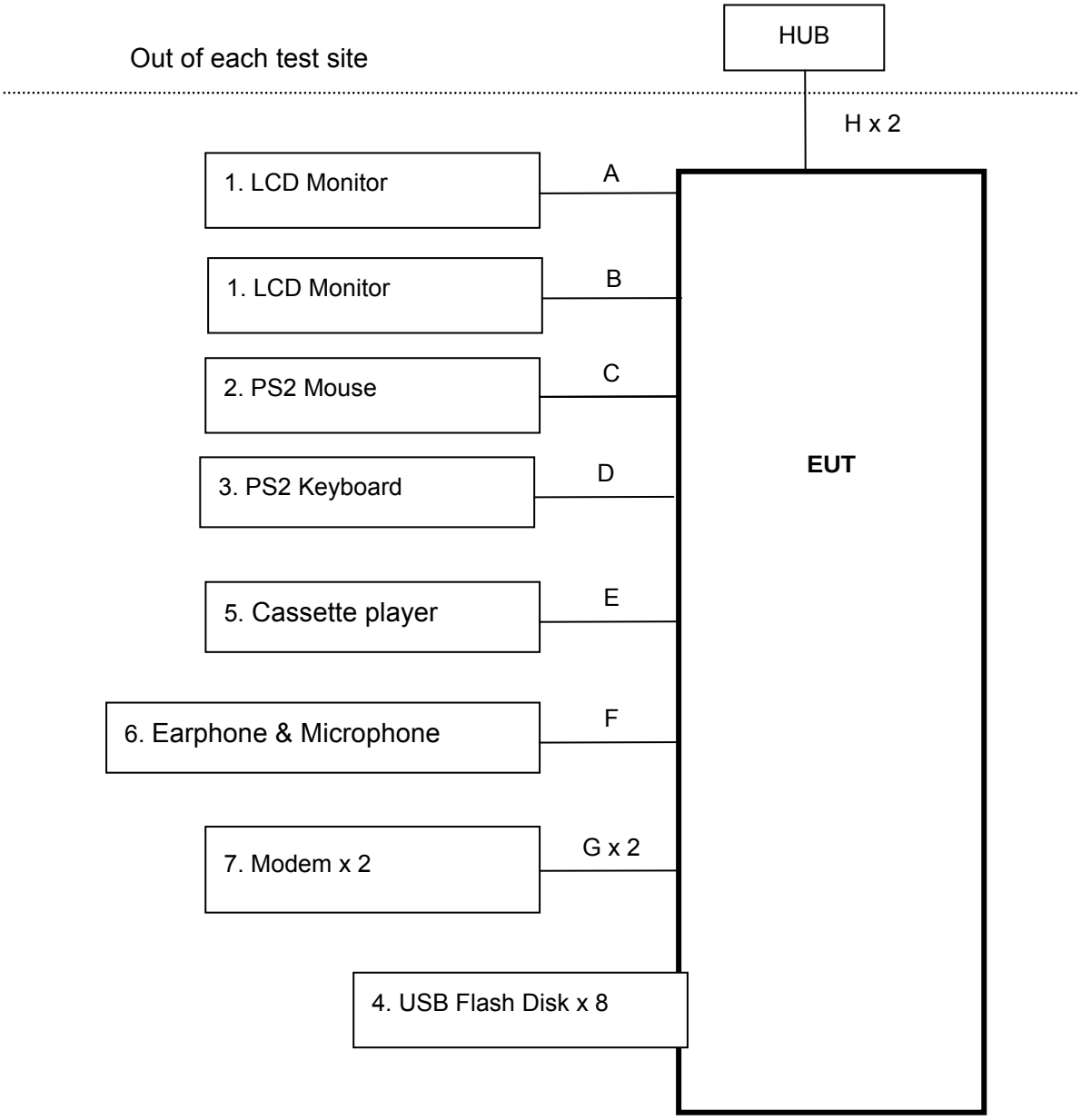
Conducted Emission Test

No.	Unit	Model No./ Serial No.	FCC ID	Trade Name	Power Cord	Supported by lab.
1	LCD Monitor	2408WFP/ CN-0NN792-74261-849-154S	DoC	DELL	1.8m	✓
		2408WFP/ CN-0G293H-74261-87C-0NDS-A00	DoC	DELL	1.8m	✓
2	PS2 Mouse	MO71KC/ MY-05N456-71619-53A-0550	DoC	DELL	N/A	✓
3	PS2 Keyboard	SK-8110/ MY-05N456-71619-53A-0546	DoC	DELL	N/A	✓
4	USB Flash Disk	U172/100-042	DoC	PQI	N/A	✓
		U172/100-029	DoC	PQI	N/A	✓
		U172/100-031	DoC	PQI	N/A	✓
		U172/100-038	DoC	PQI	N/A	✓
		U172/100-068	DoC	PQI	N/A	✓
		U172/100-071	DoC	PQI	N/A	✓
		U172/100-074	DoC	PQI	N/A	✓
		U172/100-079	DoC	PQI	N/A	✓
5	Cassette player	RQ-L11/ 4-717523-100921-1	N/A	Panasonic	N/A	✓
6	Earphone & Microphone	AM-110/ 20090715-4	DoC	andymay	N/A	✓
7	Modem	DM-1414/ 0311055092	IFAXDM1414	ACEEX	1.9m	✓
		DM-1414/ 0311055094	IFAXDM1414	ACEEX	1.9m	✓

Radiated Emission Test

No.	Unit	Model No./ Serial No.	FCC ID	Trade Name	Power Cord	Supported by lab.
1	LCD Monitor	U2410/ CN-0J257M-72872-070-02JL	DoC	DELL	1.8m	✓
		U2410/ CN-0J257M-72872-083-069L	DoC	DELL	1.8m	✓
2	PS2 Mouse	MO71KC/ MY-05N456-71619-53A-0550	DoC	DELL	N/A	✓
3	PS2 Keyboard	SK-8110/ MY-05N456-71619-53A-0546	DoC	DELL	N/A	✓
4	USB Flash Disk	U172/100-042	DoC	PQI	N/A	✓
		U172/100-029	DoC	PQI	N/A	✓
		U172/100-031	DoC	PQI	N/A	✓
		U172/100-038	DoC	PQI	N/A	✓
		U172/100-068	DoC	PQI	N/A	✓
		U172/100-071	DoC	PQI	N/A	✓
		U172/100-074	DoC	PQI	N/A	✓
		U172/100-079	DoC	PQI	N/A	✓
5	Cassette player	RQ-L11/ 4-717523-100921-1	N/A	Panasonic	N/A	✓
6	Earphone & Microphone	AM-110/ 20090715-4	DoC	andymay	N/A	✓
7	Modem	DM-1414/ 0311055092	IFAXDM1414	ACEEX	1.9m	✓
		DM-1414/ 0311055094	IFAXDM1414	ACEEX	1.9m	✓

1.6 Layout of the Setup



Connecting Cables :

No.	Cable	Length	Shielded	Core	Shielded Backshell	Supported by lab.	Note
A	D-Sub Cable	1.8m	✓	✓		✓	2 Cores
B	DVI Cable	1.8m	✓	✓		✓	2 Cores
C	PS2 Mouse Cable	1.8m	✓			✓	
D	PS2 Keyboard Cable	1.7m	✓			✓	
E	Audio Cable	1.5m	✓			✓	
F	Earphone & Microphone Cable	1.8m	✓			✓	
G	Modem Cable	1.8m	✓			✓	
H	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: 2003.

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: 2003. 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 SL2-L1-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, G-10	Test facility list & NSA Data
Authorization Certificate	Germany	TUV	10021687-2010	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. 14, 2011	Jan. 14, 2012
LISN	R&S	ESH2-Z5/ 836613/001	May 26, 2010	May 26, 2011
2nd LISN	R&S	ENV4200/ 833209/010	Jan. 14, 2011	Jan. 14, 2012
50Ω terminator	N/A	N/A/ 001	Aug. 26, 2010	Aug. 26, 2011
RF Switch	N/A	RSU28/ 338965/002	Feb. 21, 2011	Aug. 21, 2011
RF Cable	N/A	N/A/ C0052 ~ 56	Feb. 21, 2011	Aug. 21, 2011
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	2.8dB

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.

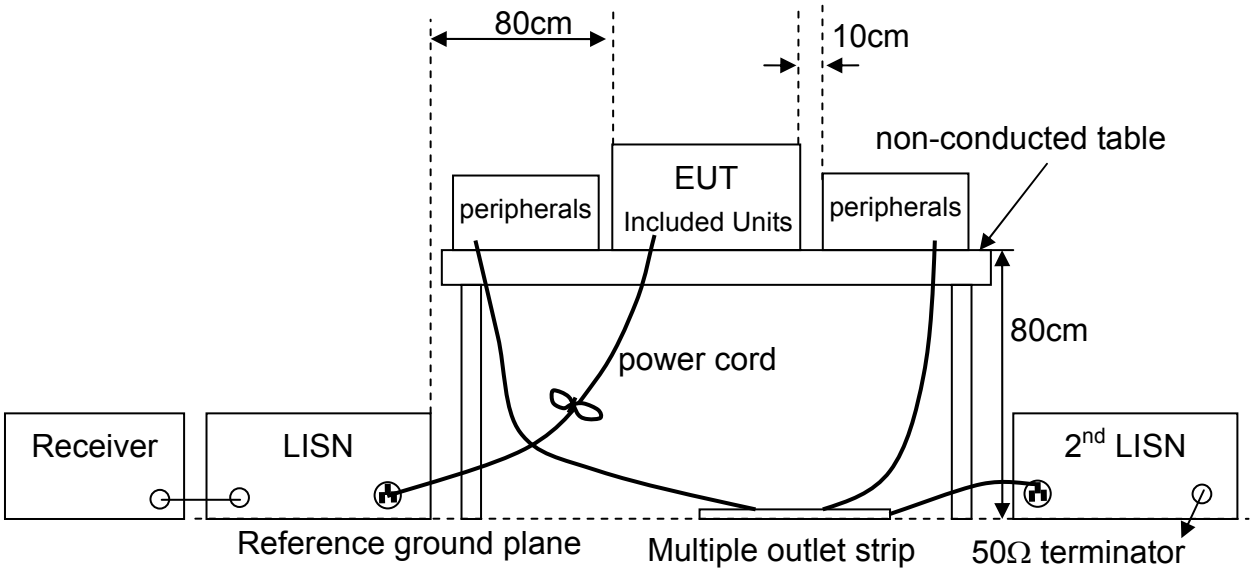
f. Measure the conducted emissions on each power line (Neutral Line and Line 1 – Hot side) of the EUT's power source by using the test receiver connected to the coupling RF output port of LISN.

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.

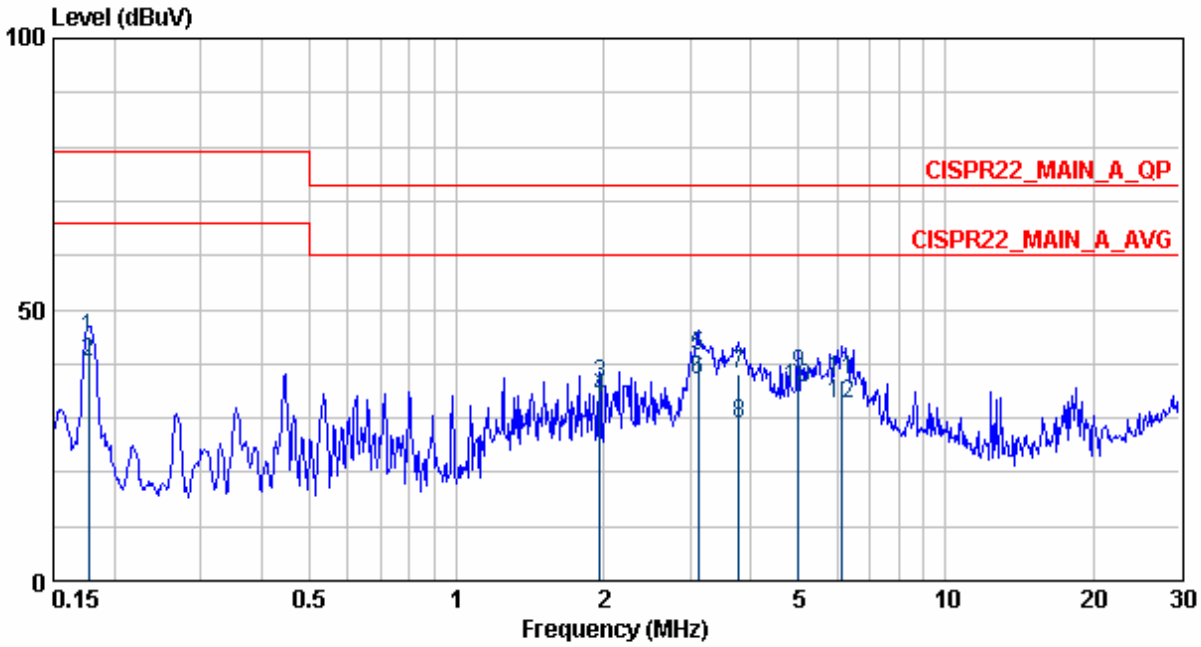
2.4 Test Configurations



2.5 Photographs of the Test Configurations

2.6 Test Results

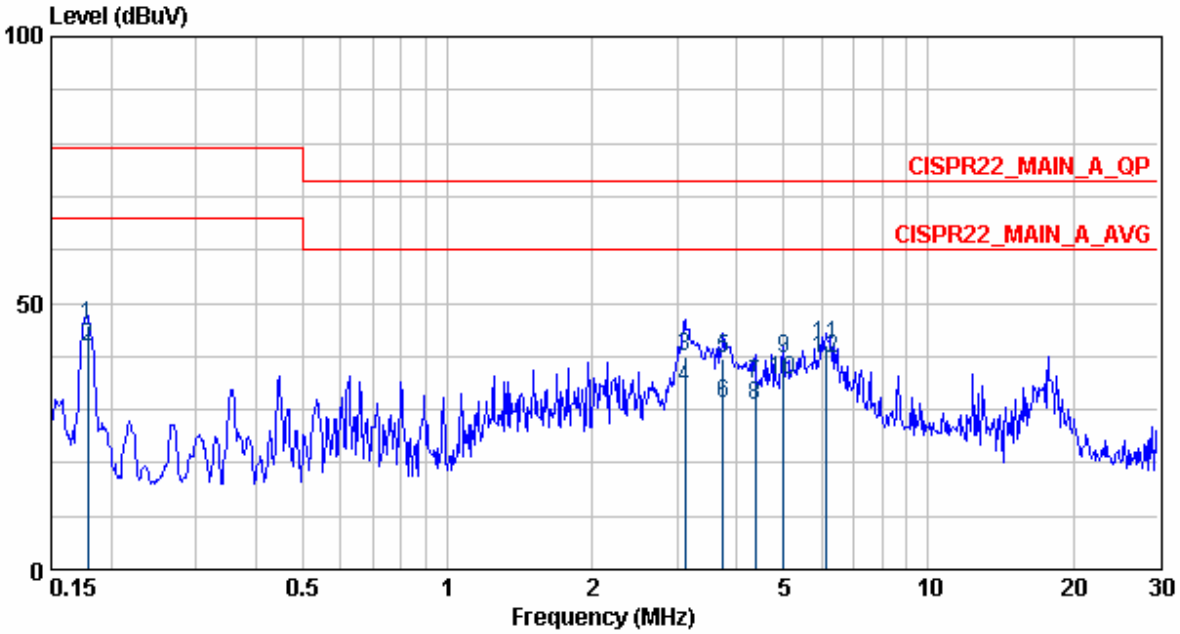
Test Mode	:	As description of section 1.2			
Test Voltage	:	120V/60Hz			
Tester	:	Kent	**Temperature**	:	24°C
Humidity	:	55%RH	**Frequency Range**	:	150kHz~30MHz
IF Bandwidth	:	9kHz	**Phase**	:	**Line**



	Freq	Level	Factor	Read Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB		
1	0.177	44.69	0.20	44.49	79.00	-34.31	LINE	QP
2 @	0.177	40.18	0.20	39.98	66.00	-25.82	LINE	AVERAGE
3	1.963	36.21	0.36	35.85	73.00	-36.79	LINE	QP
4 @	1.963	33.74	0.36	33.38	60.00	-26.26	LINE	AVERAGE
5	3.123	41.45	0.40	41.05	73.00	-31.55	LINE	QP
6 @	3.123	36.81	0.40	36.41	60.00	-23.19	LINE	AVERAGE
7	3.779	37.96	0.45	37.51	73.00	-35.04	LINE	QP
8	3.779	28.94	0.45	28.49	60.00	-31.06	LINE	AVERAGE
9	4.997	38.15	0.55	37.60	73.00	-34.85	LINE	QP
10 @	4.997	35.40	0.55	34.85	60.00	-24.60	LINE	AVERAGE
11	6.127	37.17	0.60	36.57	73.00	-35.83	LINE	QP
12 @	6.127	32.50	0.60	31.90	60.00	-27.50	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			
Tester	:	Kent	**Temperature**	:	24°C
Humidity	:	55%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	0.179	45.64	0.25	45.39	79.00	-33.36	NEUTRAL	QP
2 @	0.179	41.93	0.25	41.68	66.00	-24.07	NEUTRAL	AVERAGE
3	3.123	40.09	0.45	39.64	73.00	-32.91	NEUTRAL	QP
4 @	3.123	34.18	0.45	33.73	60.00	-25.82	NEUTRAL	AVERAGE
5	3.740	39.61	0.49	39.12	73.00	-33.39	NEUTRAL	QP
6 @	3.740	30.96	0.49	30.47	60.00	-29.04	NEUTRAL	AVERAGE
7	4.361	34.95	0.53	34.42	73.00	-38.05	NEUTRAL	QP
8 @	4.361	30.66	0.53	30.13	60.00	-29.34	NEUTRAL	AVERAGE
9	4.991	39.58	0.55	39.03	73.00	-33.42	NEUTRAL	QP
10 @	4.991	35.63	0.55	35.08	60.00	-24.37	NEUTRAL	AVERAGE
11	6.145	41.98	0.58	41.40	73.00	-31.02	NEUTRAL	QP
12 @	6.145	39.62	0.58	39.04	60.00	-20.38	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 at the distance of 10m

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. 20, 2010	Aug. 20, 2011
Broadband Antenna	R&S	HL-562/ 360543/007	March 29, 2011	March 29, 2012
Broadband Antenna	R&S	HL-562/ 830547/010	April 29, 2010	April 29, 2011
Pre-Amplifier	Mini Circuit	ZKL-2/ 001	Jan. 19, 2011	July 19, 2011
Pre-Amplifier	Mini Circuit	ZKL-2/ 002	Jan. 19, 2011	July 19, 2011
Spectrum	R&S	FSP7/ 100108	June 4, 2010	June 4, 2011
Spectrum	R&S	FSP7/ 100384	Dec. 23, 2010	Dec. 23, 2011
RF Cable	JYEBAO	0214/ C0049	Jan. 19, 2011	July 19, 2011
RF Cable	JYEBAO	0214/ C0050	Jan. 19, 2011	July 19, 2011
Test Software	Audix	e3/ Ver. 4.3.714.e	NCR	NCR
TR1 Semi - anechoic Chamber	ETS. LINDGREN	TR1/ 17627-B	April 24, 2010	April 24, 2011

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 at the distance of 3m

Test Site and Equipment	Manufacturer	Model No./ Serial No.		Last Calibration Date	Calibration Due Date
EMI Test Receiver	R&S	ESCI/ 100019		May 19, 2010	May 19, 2011
Bi-Log Antenna	EMCO	3142C/ 52088		May 18, 2010	May 18, 2011
Horn Antenna	EMCO	3117/ 00082847		March 1, 2011	March 1, 2012
Bore-sight Antenna Mast	Sunol	TLT2/ 051110-5		NCR	NCR
Pre-Amplifier	KMIC	☐	KMA010180A01/ 99056	Oct. 6, 2010	Oct. 6, 2011
	Mini Circuit	☐	ZKL-2/ 004	Feb. 7, 2011	Aug. 7, 2011
	MITEQ	☑	JS4-00101800-28-10P/1498979	Dec.10, 2010	Dec.10, 2011
	MITEQ		JS4-00101800-28-5A/742229	Dec.15, 2010	Dec.15, 2011
Spectrum Analyzer	Agilent	E4407B/ MY45106795		May 4, 2010	May 4, 2011
RF Cable	N/A	N/A/ C0080		Feb. 7, 2011	Aug. 7, 2011
RF Cable	N/A	N/A/ C0081		Oct. 20, 2010	April 20, 2011
Test Software	Audix	e3/ Ver. 4.3.714.e		NCR	NCR
TR11 Semi - anechoic Chamber	ETS. LINDGREN	TR11/ 906-A		April 19, 2010	April 19, 2011

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	3.9dB
	Vertical	3.5dB	3.9dB
TR11(3m)	Horizontal	3.5dB	3.9dB
	Vertical	3.8dB	3.9dB

Test Site (Measuring distance)	**Polarization**	**Frequency Range**	
		1GHz ~18GHz	18GHz~26GHz
TR11(3m)	Horizontal	3.5dB	4.4dB
	Vertical	3.6dB	4.5dB

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.

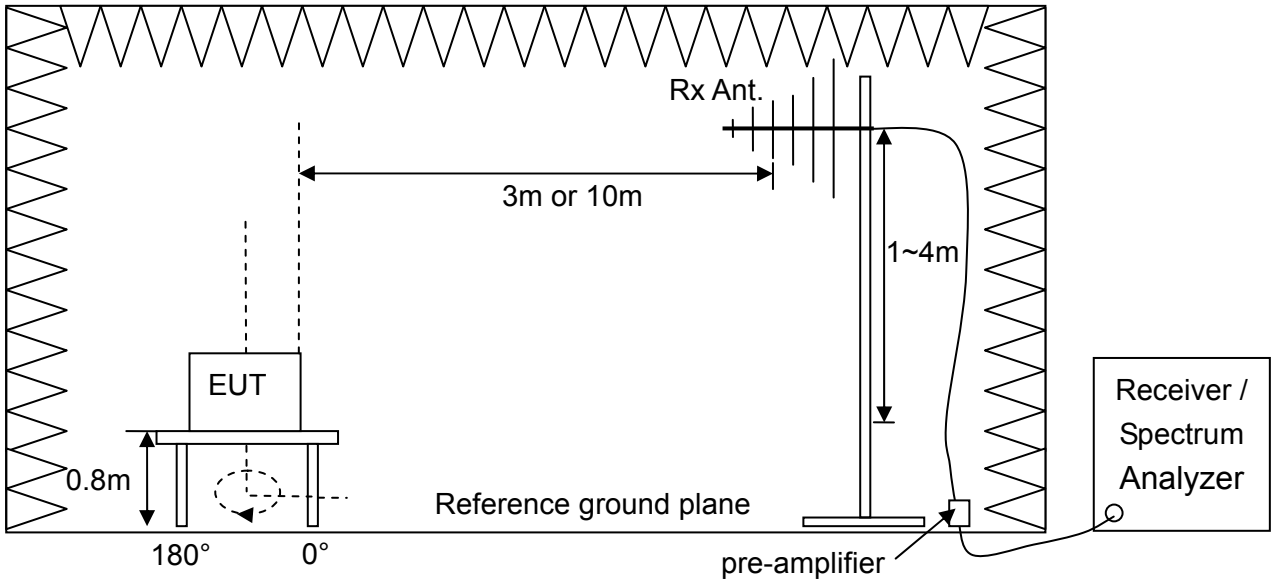
k. Record frequency, azimuth angle of the turntable, height, and polarization of the receiving antenna and compare the maximum level with the required limit.

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

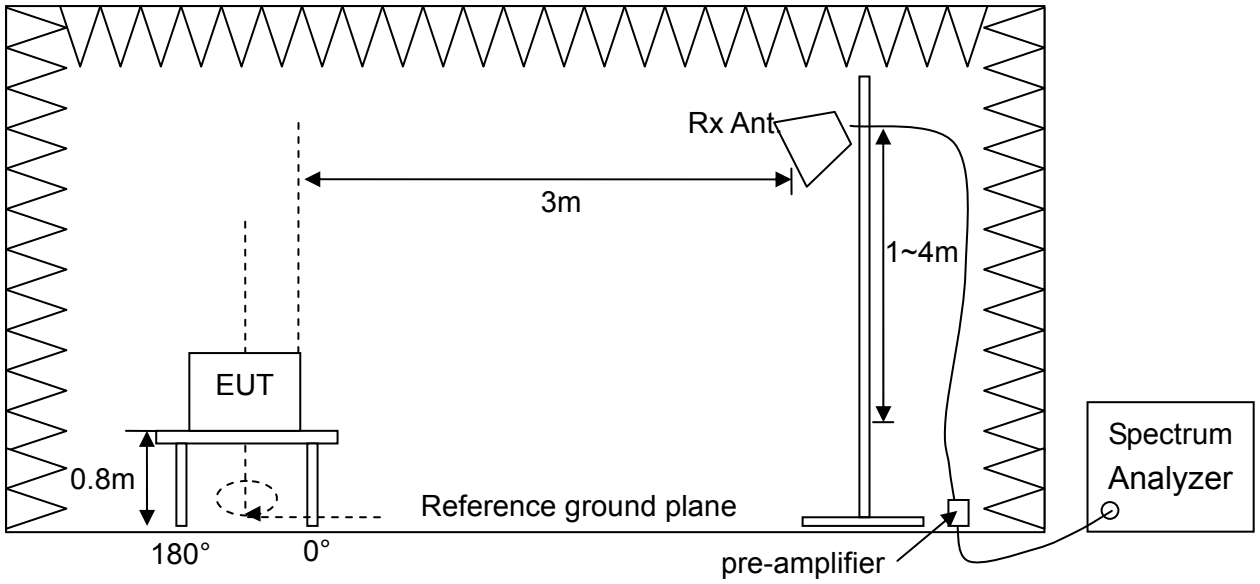
m. If the peak emission level measured from step e. is 4dB lower than the limit specified, then the emission values presented will be the peak value only. Otherwise, accurate Q.P. value will be measured and presented.

3.4 Test Configurations

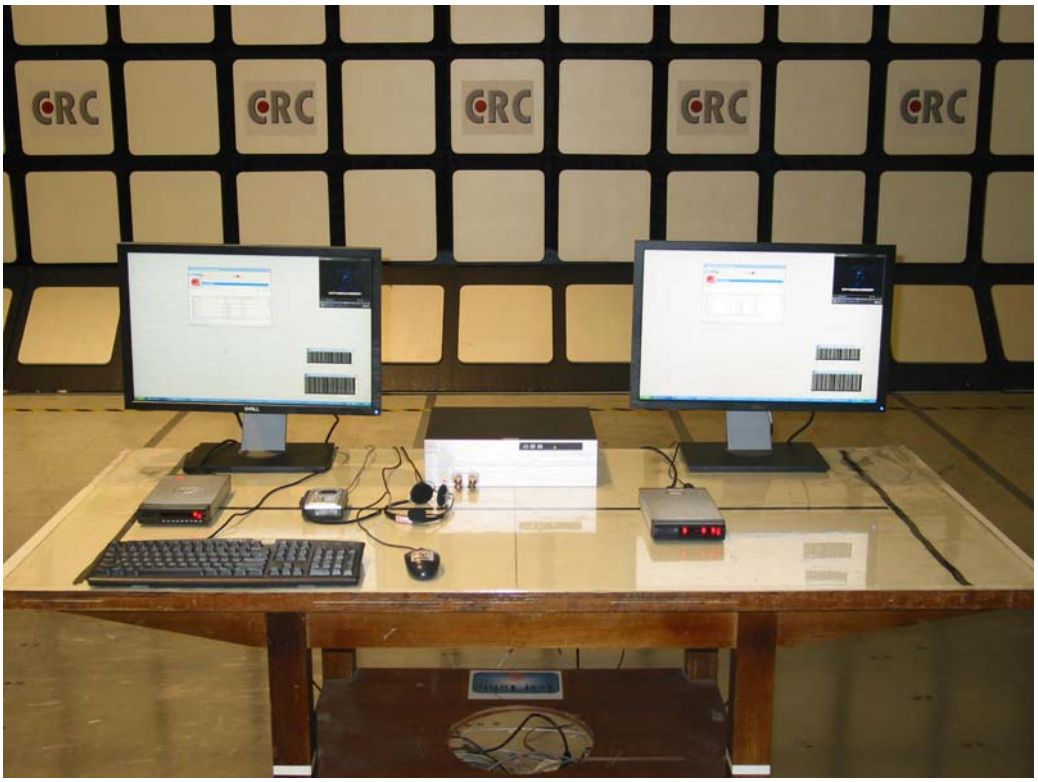
Radiated Emission Measurement below 2000MHz

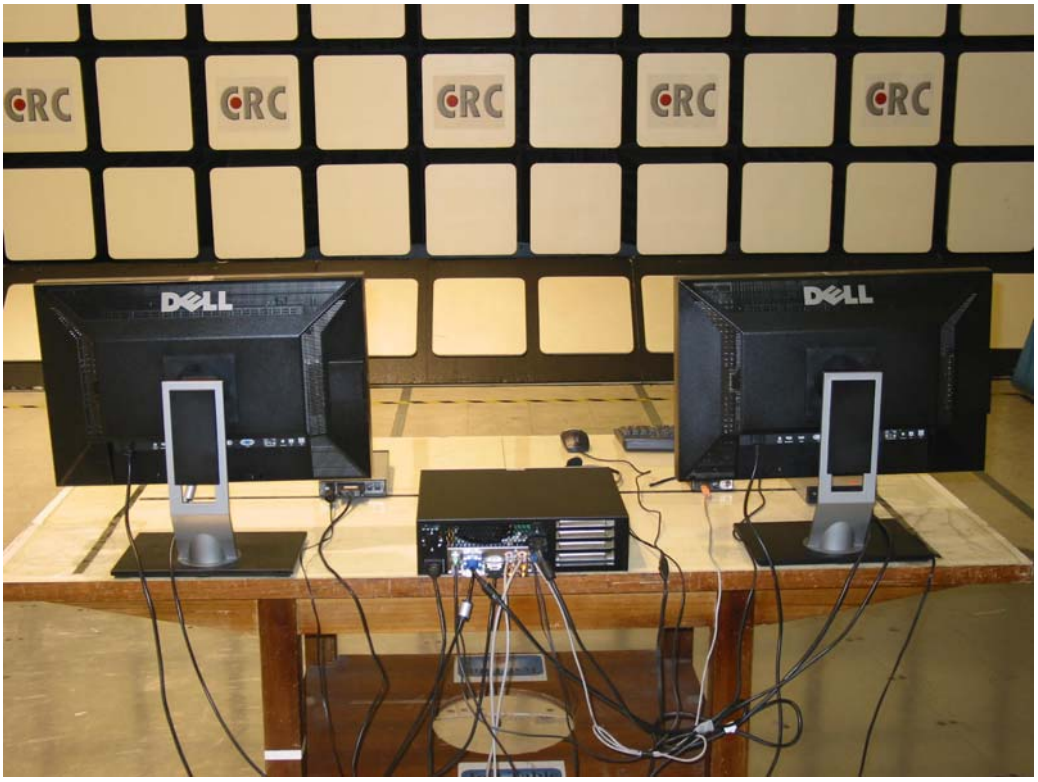


Radiated Emission Measurement above 1000MHz (if any)



3.5 Photographs of the Test Configurations

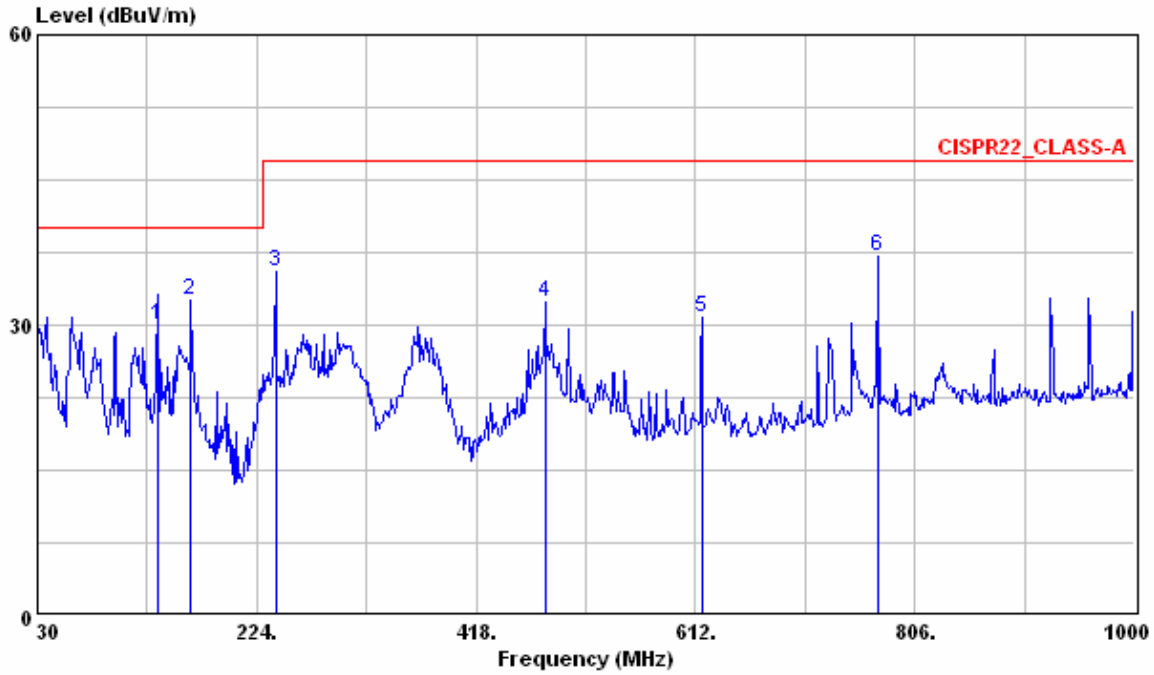




3.6 Test Results

Radiated Emission Measurement below 1000MHz

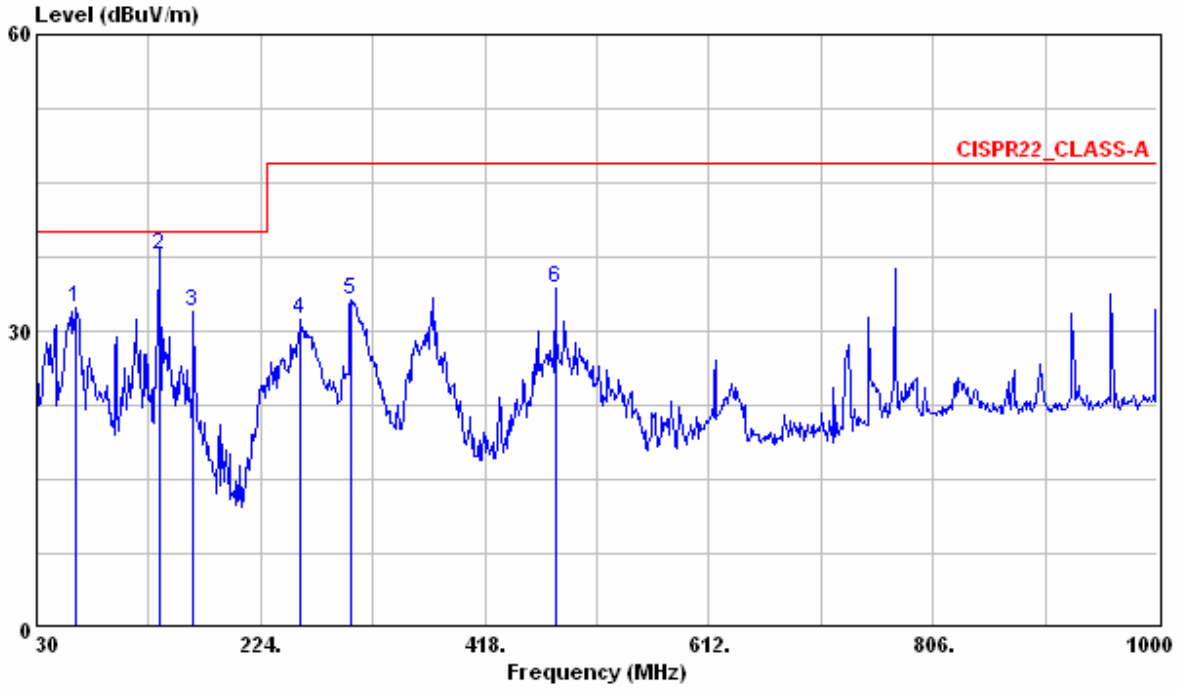
Test Mode	:	As description of section 1.2			
Test Voltage	:	120V/60Hz			
Tester	:	Carl Yan	**Temperature**	:	24°C
Humidity	:	48%RH	**Frequency Range**	:	30MHz~1GHz
IF Bandwidth	:	120kHz	**Polarization**	:	**Horizontal**



	Freq	Level	Factor	Read Level	Limit Line	Over Limit	Pol/Phase	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB/m	dBuV	dBuV/m	dB		cm	deg	
1	135.633	30.09	-20.38	50.47	40.00	-9.91	HORIZONTAL	130	332	QP
2 @	165.800	32.66	-21.67	54.33	40.00	-7.34	HORIZONTAL	---	---	Peak
3	240.490	35.58	-18.79	54.37	47.00	-11.42	HORIZONTAL	---	---	Peak
4	479.110	32.39	-11.29	43.68	47.00	-14.61	HORIZONTAL	---	---	Peak
5	617.820	30.70	-8.45	39.15	47.00	-16.30	HORIZONTAL	---	---	Peak
6	773.020	37.07	-6.34	43.41	47.00	-9.93	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			
Tester	:	Carl Yan	**Temperature**	:	24°C
Humidity	:	48%RH	**Frequency Range**	:	30MHz~1GHz
IF Bandwidth	:	120kHz	**Polarization**	:	**Vertical**

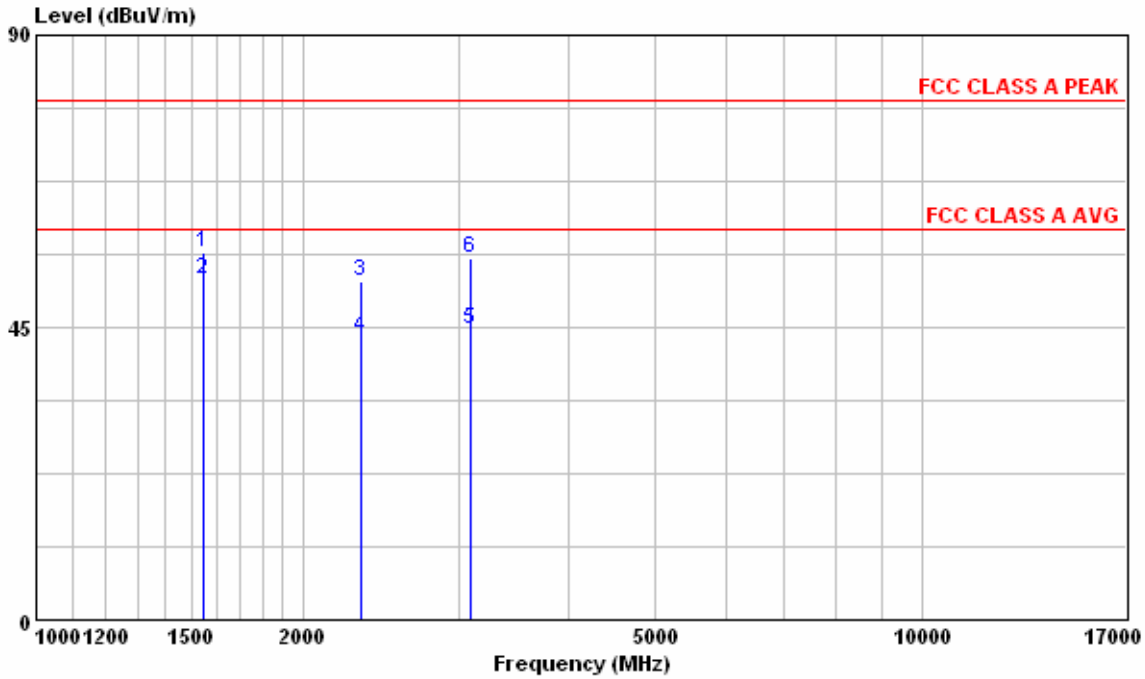


	Freq	Level	Factor	Read Level	Limit Line	Over Limit	Pol/Phase	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB/m	dBuV	dBuV/m	dB		cm	deg	
1	63.950	32.45	-23.91	56.36	40.00	-7.55	VERTICAL	---	---	Peak
2 @	135.640	37.79	-20.44	58.23	40.00	-2.21	VERTICAL	102	8	QP
3	165.800	31.98	-21.56	53.54	40.00	-8.02	VERTICAL	---	---	Peak
4	258.920	31.20	-18.03	49.23	47.00	-15.80	VERTICAL	---	---	Peak
5	302.570	33.14	-16.48	49.62	47.00	-13.86	VERTICAL	---	---	Peak
6	479.110	34.32	-10.86	45.18	47.00	-12.68	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

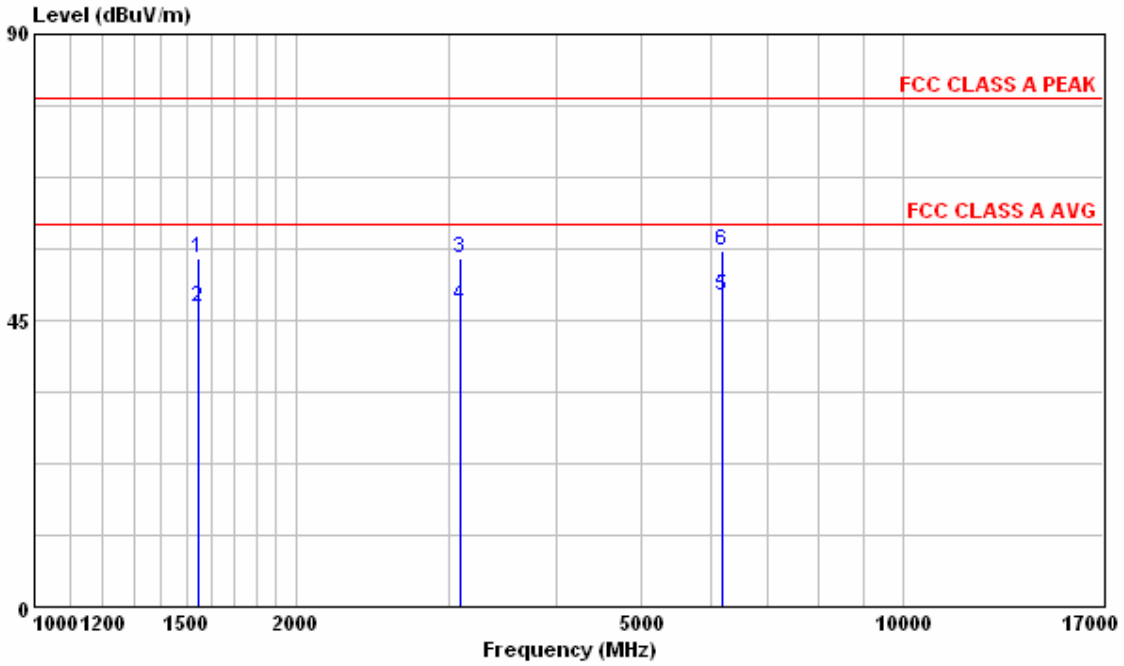
Test Mode	:	As description of section 1.2			
Test Voltage	:	120V/60Hz			
Tester	:	Carl Yan	**Temperature**	:	24°C
Humidity	:	48%RH	**Frequency Range**	:	1GHz ~17GHz
IF Bandwidth	:	1MHz	**Polarization**	:	**Horizontal**



	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	1544.570	56.44	96.82	-40.38	80.00	-23.56	112	223	HORIZONTAL	Peak
2 @	1544.570	52.31	92.69	-40.38	60.00	-7.69	112	223	HORIZONTAL	Average
3	2328.730	52.03	87.70	-35.67	80.00	-27.97	246	15	HORIZONTAL	Peak
4	2328.730	43.65	79.32	-35.67	60.00	-16.35	246	15	HORIZONTAL	Average
5	3096.410	44.61	79.54	-34.93	60.00	-15.39	169	195	HORIZONTAL	Average
6	3096.410	55.68	90.61	-34.93	80.00	-24.32	169	195	HORIZONTAL	Peak

Note:
1. Emission Level = reading value + correction factor.
2. Correction factor = cable loss + antenna factor – gain of pre-amplifier.

Test Mode	:	As description of section 1.2			
Test Voltage	:	120V/60Hz			
Tester	:	Carl Yan	**Temperature**	:	24°C
Humidity	:	48%RH	**Frequency Range**	:	1GHz ~17GHz
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	1544.680	54.65	95.03	-40.38	80.00	-25.35	119	360	VERTICAL	Peak
2	1544.680	47.20	87.58	-40.38	60.00	-12.80	119	360	VERTICAL	Average
3	3096.590	54.74	89.67	-34.93	80.00	-25.26	108	20	VERTICAL	Peak
4	3096.590	47.38	82.31	-34.93	60.00	-12.62	108	20	VERTICAL	Average
5	6184.140	48.90	78.58	-29.68	60.00	-11.10	123	267	VERTICAL	Average
6	6184.140	56.01	85.69	-29.68	80.00	-23.99	123	267	VERTICAL	Peak

Note:
1. Emission Level = reading value + correction factor.
2. Correction factor = cable loss + antenna factor – gain of pre-amplifier.

Attachment 1
Photographs of EUT

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	**:**	Advanced System Controller
Model No.	**:**	xxxxAIS-Q574xx-xxx-xxxxxxx (Where x is 0-9，A-Z，-or blank) for marketing purpose)
Manufacturer	**:**	AAEON Technology Inc.
Address	**:**	5F,NO.135,Lane 235,Pao Chiao Rd. Hsin-Tien Dist, New Taipei City,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.