

FCC 47 CFR PART 15 SUBPART B TEST REPORT

for

Fanless embedded controller

MODEL: xxxxxAEC-6620-xxxxxxxx

Test Report Number: T100226205-F

Issued to:

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.

Sindian BU. No.163-1, Jhongsheng Rd., Sindian City, Taipei County 23151, Taiwan TEL: 886-2-22170894

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Issued Date: March 12, 2010



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Revision History

Rev.	lssue Date	Revisions	Effect Page	Revised By
00	March 12, 2010	Initial Issue	ALL	Joy Hsiao



TABLE OF CONTENTS

1	TEST RESULT CERTIFICATION	4
2	EUT DESCRIPTION	5
3	TEST METHODOLOGY	6
3.1.	DECISION OF FINAL TEST MODE	6
3.2.	EUT SYSTEM OPERATION	6
4	SETUP OF EQUIPMENT UNDER TEST	7
4.1.	DESCRIPTION OF SUPPORT UNITS	
4.2.	CONFIGURATION OF SYSTEM UNDER TEST	8
5	FACILITIES AND ACCREDITATIONS	9
5.1.	FACILITIES	9
5.2.	ACCREDITATIONS	
5.3.	MEASUREMENT UNCERTAINTY	9
6	CONDUCTED EMISSION MEASUREMENT	10
6.1.	LIMITS OF CONDUCTED EMISSION MEASUREMENT	10
6.2.	TEST INSTRUMENTS	
6.3.	TEST PROCEDURES	
6.4.	TEST SETUP	
6.5.	DATA SAMPLE	
6.6.	TEST RESULTS	
7	RADIATED EMISSION MEASUREMENT	
7.1.	LIMITS OF RADIATED EMISSION MEASUREMENT	
7.2.	TEST INSTRUMENTS	
7.3.	TEST PROCEDURES	
7.4.	TEST SETUP	
7.5.		
7.6.	TEST RESULTS	
8	PHOTOGRAPHS OF THE TEST CONFIGURATION	



1 TEST RESULT CERTIFICATION

Product:	Fanless embedded controller			
Model:	xxxxxAEC-6620-xxxxxxx(Where x is 0-9 , A-Z , - or blank) for marketing purpose			
Brand:	AAEON			
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.			
Tested:	February 26, 2010 ~ March 10, 2010			

EMISSION					
Standard	Item	Result	Remarks		
FCC 47 CFR Part 15 Subpart B, ICES-003 Issue 4	Conducted (Power Port)	PASS	Meet Class A limit		
ANSI C63.4-2003	Radiated	PASS	Meet Class A limit		

Note: 1. The statements of test result on the above are decided by the request of test standard only; the measurement uncertainties are not factored into this compliance determination.

2. The information of measurement uncertainty is available upon the customer's request.

Deviation from Applicable Standard	
None	

The above equipment has been tested by Compliance Certification Services Inc., and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Approved by:

Vince Chiang Assistant Manager Reviewed by:

octa Hsu

Vesta Hsu Supervisor of report document dept.

2 EUT DESCRIPTION

Product	Fanless embedded controller		
Brand Name	AAEON		
Model	xxxxxAEC-6620-xxxxxxx(Where x is 0-9 , A-Z , - or blank) for marketing purpose		
Applicant	AAEON Technology Inc.		
Housing material	Metal case		
Identify Number	T100226205		
Received Date	February 26, 2010		
EUT Power Rating	12VDC from AC Adaptor		
AC Power During Test	120VAC / 60Hz to AC Adaptor		
AC Adaptor Manufacturer	EDAC POWER ELEC.		
AC Adaptor Model	EA1050A-120		
AC Adaptor Power During	I/P: 100-240VAC~1.8A, 50-60Hz O/P: 12VDC 5.0A		
DC Power Cable Type	Unshielded, 1.2m (Non-detachable, with a core) to AC Adaptor		
OSC/Clock Frequencies	13.318MHz; 25MHz; 32.768kHz		

I/O PORT

	I/O PORT TYPES	Q'TY	TESTED WITH
1.	SIO Port	1	1
2.	VGA Port	1	1
3.	Earphone Port	1	1
4.	USB Port	4	4
5.	LAN Port	2	2

Note: Client consigns only one model sample to test (Model Number: AEC-6620).



3 TEST METHODOLOGY

3.1. DECISION OF FINAL TEST MODE

The EUT was tested together with the above additional components, and a configuration, which produced the worst emission levels, was selected and recorded in this report.

The test configuration/ modes are as the following:

Conduction Mode:

1	NORMAL MODE
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Radiation Modes:

1 NORMAL MODE NORMAL MODE / 1-8GHz

Conduction: Mode 1 Radiation: Mode 1

3.2. EUT SYSTEM OPERATION

- 1. Windows XP boots system.
- 2. Run Emctest.exe to activate all peripherals and display "H" pattern on monitor screen.
- 3. Run Winemc.exe and choose "F:/ & G:/" to test USB 2.0 port.
- 4. Run Winemc.exe and choose media player to play music.
- 5. Press the start menu, select executive and type ping 192.168.0.1 -t (EUT), ping 192.168.0.2 -t (Server PC).
- 6. Press the start menu, select executive and type ping 192.168.0.3 -t (EUT), ping 192.168.0.4 -t (Server PC).

Note: Test program is self-repeating throughout the test.

4 SETUP OF EQUIPMENT UNDER TEST

4.1. DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

EUT Devices:

No.	Equipment	Model No.	Trade Name			
1	CPU Board	EPIC-9457-xxxxxx (Where x is 0-9,A-Z,-or blank) for marketing purpose	AAEON			
2	CPU (1.6GHz)	Atom N270	Intel			
3 CFD (4GB)		N/A	Transcend			
4	4 Memory (2GB DDR2 667MHZ) SEC K4T1G084QQ DSL					
Note: Client consigns only one model sample to test (CPU Board Model Number: EPIC-9457).						

Peripherals Devices:

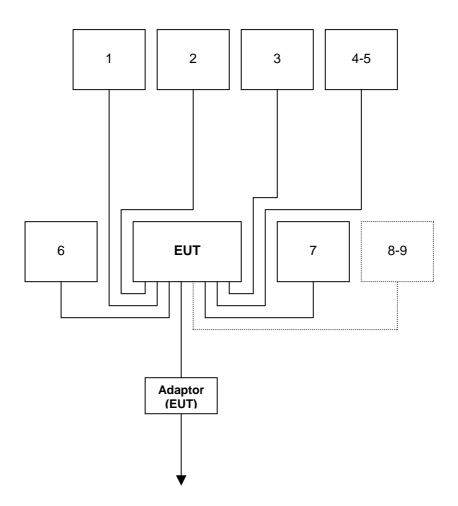
No.	Equipment	Model No.	Serial No.	FCC ID / BSMI ID	Trade Name	Data Cable	Power Cord
1	Earphone	MSB301	N/A	N/A	e-Sense	Unshielded, 1.7m	N/A
2	USB Mouse	MOC5UO	H1606PRO	DOC BSMI: R41108	Dell	Shielded, 1.8m	N/A
3	USB Keyboard	SK-8115	N/A	DOC BSMI: T3A002	Dell	Shielded, 1.8m with a core	N/A
4-5	USB 2.0 HDD	F12-U	N/A	DOC BSMI ID: 4912A002	TeraSys	Shielded, 1.8m	N/A
6	Modem	5JEG4033MKO	N/A	5RJTAI-35500-M5- E	TOP- SOLUTION	Shielded, 1.8m	Unshielded, 1.8m
7	Monitor	710V	GS17H9NXA0585 5D	DOC BSMI: R33475	SAMSUNG	Shielded, 1.8m with two cores	Unshielded, 1.8m
8-9	Server PC	DCSM	N/A	DOC BSMI: R33002	DELL	Unshielded, 20m	Unshielded, 1.8m

Note:

1) All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.

2) Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

4.2. CONFIGURATION OF SYSTEM UNDER TEST



5 FACILITIES AND ACCREDITATIONS

5.1. FACILITIES

All measurement facilities used to collect the measurement data are located at CCS Taiwan Sindian BU. at No.163-1, Jhongsheng Rd., Sindian City, Taipei County 23151, Taiwan.

The sites are constructed in conformance with the requirements of ANSI C63.4 and CISPR Publication 22. All receiving equipment conforms to CISPR 16-1-1, CISPR 16-1-2, CISPR 16-1-3, CISPR 16-1-4 and CISPR 16-1-5.

5.2. ACCREDITATIONS

Our laboratories are accredited and approved by the following accreditation body according to ISO/IEC 17025.

Taiwan	TAF
USA	A2LA

The measuring facility of laboratories has been authorized or registered by the following approval agencies.

Canada	Industry Canada
Norway	Nemko
Japan	VCCI
Taiwan	BSMI
USA	FCC

Copies of granted accreditation certificates are available for downloading from our web site, <u>http:///www.ccsrf.com</u>

5.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Frequency	Uncertainty
Conducted emissions	0.15MHz ~ 30MHz	± 1.7366
Radiated emissions	30MHz ~ 200MHz	± 3.8792
	200MHz ~ 1000MHz	± 3.8914

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Consistent with industry standard (e.g. CISPR 22: 2005, clause 11, Measurement Uncertainty) determining compliance with the limits shall be base on the results of the compliance measurement. Consequently the measure emissions being less than the maximum allowed emission result in this be a compliant test or passing test.

The acceptable measurement uncertainty value without requiring revision of the compliance statement is base on conducted and radiated emissions being less than U_{CISPR} which is 3.6dB and 5.2dB respectively. CCS values (called U_{Lab} in CISPR 16-4-2) is less than U_{CISPR} as shown in the table above. Therefore, MU need not be considered for compliance.

6 CONDUCTED EMISSION MEASUREMENT

6.1. LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY (MHz)	Class A	(dBuV)	Class B (dBuV)		
FREQUENCI (MITZ)	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: 1. The lower limit shall apply at the transition frequencies.

2. The limit decreases in line with the logarithm of the frequency in the range 0.15 to 0.50 MHz.

3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

6.2. TEST INSTRUMENTS

Conducted Emission room # B							
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due			
TEST RECEIVER	R&S	ESCI	100234	06/11/2010			
LISN (EUT)	FCC	FCC-LISN-50-32-2	08009	03/29/2010			
LISN	EMCO	3825/2	1382	01/11/2011			
BNC CABLE	Huber+Suhner	RG 223/U	BNC B2	01/12/2011			
Pulse Limiter	R&S	ESH3-Z2	100374	08/23/2010			
THERMO- HYGRO METER	ТОР	HA-202	9303-3	01/31/2011			
Test S/W	EZ-EMC						

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

2. N.C.R = No Calibration Request.

6.3. TEST PROCEDURES (please refer to measurement standard or CCS SOP PA-031)

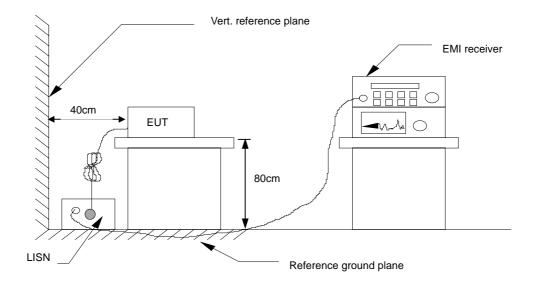
Procedure of Preliminary Test

- The EUT and support equipment, if needed, were 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 12 mm non-conductive covering to insulate the EUT from the ground plane.
- All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.
- The test equipment EUT installed by AC 120VAC/60Hz main power, through a Line Impedance Stabilization Network (LISN), which was supplied power source and was grounded to the ground plane.
- All support equipment power by from a second LISN.
- The test program of the EUT was started. Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.
- 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 3.1 were scanned during the preliminary test.
- After the preliminary scan, we found the test mode described in Item 3.1 producing the highest emission level.
- The worst configuration of EUT and cable 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 the configuration with highest emission level in 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.
- The test data of the worst-case condition(s) was recorded.

6.4. TEST SETUP



 For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

6.5. DATA SAMPLE

Freq.	Reading	Factor	Result	Limit	Margin	Detector	Line
(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	(P/Q/A)	(L1/L2)
x.xx	42.95	0.55	43.50	73	-29.50	Q	

Freq.	= Emission frequency in MHz
Reading	= Uncorrected Analyzer/Receiver reading
Factor	= Insertion loss of LISN + Cable Loss
Result	= Read Level + Factor
Limit	= Limit stated in standard
Margin	= Reading in reference to limit
Ρ	= Peak Reading
Q	= Quasi-peak Reading
А	= Average Reading
L1	= Hot side
L2	= Neutral side

Calculation Formula

Margin (dB) = Result (dBuV) – Limit (dBuV)

6.6. TEST RESULTS

Model No.	AEC-6620	6dB Bandwidth	10 kHz
Environmental Conditions	20deg.C, 62% RH, 1010hPa	Test Mode	Mode 1
Tested by	John Yen		

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

	Six Highest Conducted Emission Readings							
Fre	quency Rang	e Investiga	ted	150 kHz to 30 MHz				
Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector (P/Q/A)	Line (L1/L2)	
0.1860	39.62	11.07	50.69	79.00	-28.31	Р	L1	
0.2460	31.61	10.87	42.48	79.00	-36.52	Р	L1	
16.7700	21.55	10.81	32.36	73.00	-40.64	Р	L1	
0.1860	39.74	10.74	50.48	79.00	-28.52	Р	L2	
0.2460	31.78	10.54	42.32	79.00	-36.68	Р	L2	
0.3060	27.74	10.44	38.18	79.00	-40.82	Р	L2	

Note: 1. L1 = Line One (Live Line) / L2 = Line Two (Neutral Line).

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

7 RADIATED EMISSION MEASUREMENT

7.1. LIMITS OF RADIATED EMISSION MEASUREMENT

Below 1GHz (for digital device)

FREQUENCY (MHz)	dBuV/m (At 10m)			
	Class A	Class B		
30 ~ 230	40	30		
230 ~ 1000	47	37		

Limit tables for non-digital device:

Class A Radiated Emission limit at 10m (for others)

Frequency (MHZ)	Field Strength Limit (uV/m)Q.P.	Field Strength Limit (dBuV/m)Q.P.
30 - 88	90	39
88 - 216	150	43.5
216 – 960	210	46.4
Above 960	300	49.5

Class B Radiated Emission limit at 3m (for others)

Frequency (MHZ)	Field Strength Limit (uV/m)Q.P.	Field Strength Limit (dBuV/m)Q.P.
30 - 88	100	40
88 - 216	150	43.5
216 – 960	200	46
Above 960	500	54

	CCS
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Above 1GHz(for all device)

Frequency	Class A (dBu	V/m) (At 10m)	Class B (dBuV/m) (At 3m)	
(MHZ)	Average	Peak	Average	Peak
Above 1000	49.5	69.5	54	74

NOTE: 1. The lower limit shall apply at the transition frequencies.

2. Emission level (dBuV/m) = 20 log Emission level (uV/m).

3. The measurement above 1GHz is at close-in distances 3m,and determine the limit L2 corresponding to the close-in distance d2 by applying the following relation: L2 = L1 (d1/d2), where L1 is the specified limit in microvolts per metre (uV/m) at the distance d1 (10m), L2 is the new limit for distance d2 (3m).

So the new Class A limit above 1GHz at 3m is as following table:

Frequency	Class A (dBuV/m) (At 3m)				
(MHZ)	Average	Peak			
Above 1000	60	80			

According to FCC Part 15.33 (b), for an unintentional radiator, including a digital device, the spectrum shall be investigated from the lowest radio frequency signal generated or used in the device, without going below the lowest frequency for which a radiated emission limit is specified, up to the frequency shown in the following table:

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.75	30
1.75-108	1000
108-500	2000
500-1000	5000
Above 1000	5 th harmonic of the highest frequency or 40GHz, whichever is lower

7.2. TEST INSTRUMENTS

Open Area Test Site # I								
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due				
MEASURE RECEIVER	SCHAFFNER	SCR3501	338	07/07/2010				
SPECTRUM ANALYZER	ADVANTEST	R3132	120900008	No Calibration Required				
ANTENNA	SCHAFFNER	CBL 6112B	2809	09/06/2010				
AMPLIFIER	SCHAFFNER	CPA9231A	3626	10/11/2010				
CABLE	BELDEN	9913	N-TYPE #I2	02/21/2011				
THERMO- HYGRO METER	TECPEL	DTM-303	090639	05/24/2010				
Test S/W		EZ-E	EMC					
	Ab	ove 1GHz Used						
MEASURE RECEIVER	SCHAFFNER	SCR3501	342	06/21/2010				
SPECTRUM ANALYZER (9kHz-30GHz)	R&S	FSP 30	100112	10/19/2010				
ANTENNA (30-1000MHz)	SUNOL	JB1	A013105-2	09/06/2010				
ANTENNA (1-18GHz)	EMCO	3115	00022256	01/14/2011				
PRE- AMPLIFIER	EMCI	EMC330	980022	02/04/2011				
AMPLIFIER (1-18GHz)	HP	8449B	3008A01266	01/14/2011				
RF SWITCH	EMEC	EMSW18	60432	01/21/2011				
CABLE (30-1000MHz)	HUBER +SUHNER	SUCOFLEX 102	33105/2	01/21/2011				
CABLE (1-40GHz)	HUBER +SUHNER	SUCOFLEX 102	33106/2	12/23/2010				
CABLE (18-40GHz)	HUBER +SUHNER	SUCOFLEX 102	33633/2	12/23/2010				
CABLE (1-26.5GHz)	HUBER +SUHNER	SUCOFLEX 104PEA	33959/4PEA	12/23/2010				
CABLE (30-1000MHz)	HUBER +SUHNER	SUCOFLEX 104PEA	33960/4PEA	01/21/2011				
THERMO- HYGRO METER	TECPEL	DTM-303	NO.3	11/23/2010				
Test S/W		EZ-E	EMC					

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

2. N.C.R = No Calibration Request.

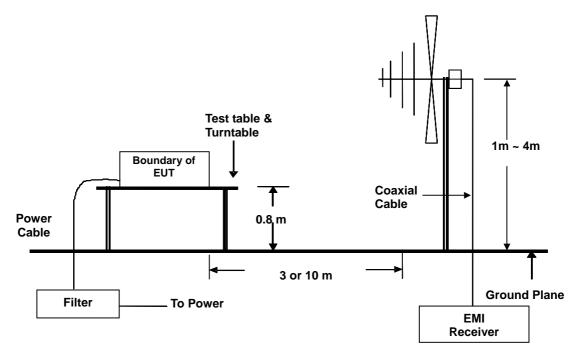
7.3. TEST PROCEDURES (please refer to measurement standard or CCS SOP PA-031)

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 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 120VAC/60Hz power source from the outlet socket under the turntable. All support equipment power received from another socket under the turntable.
- The antenna was placed at 3 or 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 40GHz. 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 3.1 were scanned during the preliminary test:
- After the preliminary scan, we found the test mode described in Item 3.1 producing the highest emission level.
- The worst configuration of EUT and cable 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 turntable as per the configuration with highest emission level in the preliminary test.
- The Analyzer / Receiver scanned from 30MHz to 40GHz. 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.
- Recording 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. Below 1GHz the Q.P. reading and above 1GHz the Peak and Average reading are presented.
- The test data of the worst-case condition(s) was recorded.



7.4. TEST SETUP

 For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

7.5. DATA SAMPLE

Below 1GHz

Freq.	Reading	Factor	Result	Limit	Margin	Detector	Pol.
(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	(P/Q)	(H/V)
x.xx	14.0	12.2	26.2	40	-13.8	Q	

Above 1GHz

Freq.	Reading	Factor	Result	Limit	Margin	Detector	Pol.
(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	(P/A)	(H/V)
x.xx	42.95	0.55	43.50	60	-16.50	А	

Freq.	= Emission frequency in MHz
Reading	= Uncorrected Analyzer/Receiver reading
Factor	= Antenna Factor + Cable Loss - Amplifier Gain
Result	= Reading + Factor
Limit	= Limit stated in standard
Margin	= Reading in reference to limit
P	= Peak Reading
Q	= Quasi-peak Reading
А	= Average Reading
Н	= Antenna Polarization: Horizontal
V	= Antenna Polarization: Vertical

Calculation Formula

Margin (dB) = Result (dBuV/m) – Limit (dBuV/m)

7.6. TEST RESULTS

Below 1GHz

Model No.	AEC-6620	Test Mode	Mode 1
Environmental Conditions	26deg.C, 60% RH, 1009hPa	6dB Bandwidth	120 kHz
Antenna Pole	Vertical / Horizontal	Antenna Distance	10m
Detector Function	Quasi-peak.	Tested by	John Yen

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

	Six Highest Radiated Emission Readings								
Frequency Range Investigated			30 M	Hz to 1000	MHz at 10)m			
Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector (P/Q)	Pol. (H/V)		
35.3100	48.50	-13.30	35.20	40.00	-4.80	Q	V		
124.9930	42.80	-16.05	26.75	40.00	-13.25	Q	V		
210.1100	44.00	-17.73	26.27	40.00	-13.73	Q	V		
242.5300	54.00	-15.35	38.65	47.00	-8.35	Q	V		
540.0500	40.00	-6.52	33.48	47.00	-13.52	Q	V		
750.0570	37.00	-4.19	32.81	47.00	-14.19	Q	V		

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

	Six Highest Radiated Emission Readings								
Frequency Range Investigated			30 MI	Hz to 1000	MHz at 10	m			
Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector (P/Q)	Pol. (H/V)		
125.0200	48.60	-16.05	32.55	40.00	-7.45	Q	Н		
133.5100	49.80	-16.47	33.33	40.00	-6.67	Q	Н		
210.0000	46.50	-17.73	28.77	40.00	-11.23	Q	Н		
239.2600	53.80	-15.78	38.02	47.00	-8.98	Q	Н		
500.1000	44.40	-7.70	36.70	47.00	-10.30	Q	Н		
540.1000	42.30	-6.52	35.78	47.00	-11.22	Q	Н		

Note: 1. 30MHz to 1000MHz test is Applicable CISPR 22 / EN 55022 standard.

2. The other emission levels were very low against the limit.

3. P= Peak Reading; Q= Quasi-peak Reading.



Above 1000MHz

Model No.	AEC-6620	Test Mode	Mode 1
Environmental Conditions	26deg.C, 60% RH, 1009hPa	6dB Bandwidth	1 MHz
Antenna Pole	Vertical / Horizontal	Antenna Distance	3m
Highest frequency generated or used	1600MHz	Upper frequency	8000MHz
Detector Function	Peak or average.	Tested by	Roger Yang

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

	Radiated Emission Readings								
Frequ	uency Rang	je Investig	ated		Above 1G	Hz at 3m			
Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector (P/A)	Pol. (H/V)		
1104.000	57.81	-9.33	48.48	80.00	-31.52	Р	V		
1360.000	52.61	-7.69	44.92	80.00	-35.08	Р	V		
1496.000	60.32	-6.83	53.49	80.00	-26.51	Р	V		
1704.000	52.03	-5.57	46.46	80.00	-33.54	Р	V		
1796.000	50.32	-5.03	45.29	80.00	-34.71	Р	V		
1920.000	47.99	-4.29	43.70	80.00	-36.30	Р	V		
2244.000	47.19	-2.97	44.22	80.00	-35.78	Р	V		
2560.000	47.59	-1.79	45.80	80.00	-34.20	Р	V		

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

Radiated Emission Readings								
Frequency Range Investigated				Above 1GH	Hz at 3m			
Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector (P/Q)	Pol. (H/V)	
1108.000	55.06	-9.31	45.75	80.00	-34.25	Р	Н	
1500.000	56.37	-6.80	49.57	80.00	-30.43	Р	Н	
1700.000	47.71	-5.60	42.11	80.00	-37.89	Р	Н	
2160.000	43.88	-3.26	40.62	80.00	-39.38	Р	Н	
2244.000	43.06	-2.97	40.09	80.00	-39.91	Р	Н	
2552.000	45.33	-1.84	43.49	80.00	-36.51	Р	Н	

Note: 1. The other emission levels were very low against the limit.

2. P= Peak Reading; A= Average Reading.



8 PHOTOGRAPHS OF THE TEST CONFIGURATION CONDUCTED EMISSION TEST





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RADIATED EMISSION TEST

