FCC 47 CFR PART 15 SUBPART B
TEST REPORT

for

SubCompact Board

MODEL: GENE-U15B-xxxxxx(Where x is 0-9，A-Z，- or blank)

Test Report Number:
T110308202-F

Issued to:

AAEON Technology Inc.

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

Issued by:

Compliance Certification Services Inc.

Sindian Lab.

**No.163-1, Jhongsheng Rd, Sindian City,
Taipei County 23151, Taiwan (R.O.C.)**

TEL: 886-2-22170894

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Issued Date: March 18, 2011

Revision History

Rev.		Issue Date		Revisions	Effect Page	Revised By
00		March 18, 2011		Initial Issue	ALL	Joy Hsiao

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1 TEST RESULT CERTIFICATION

Product:	SubCompact Board
Model:	GENE-U15B-xxxxxx(Where x is 0-9，A-Z，- or blank)
Brand:	AAEON
Applicant:	**AAEON Technology Inc.** 5F, No.135, Lane 235, Pao Chiao Rd, Hsin-Tien Dist., New Taipei City, Taiwan, R.O.C.
Manufacturer:	**AAEON Technology Inc.** 5F, No.135, Lane 235, Pao Chiao Rd, Hsin-Tien Dist., New Taipei City, Taiwan, R.O.C.
Tested:	March 08, 2011 ~ March 15, 2011

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

Sam Hu
Section Manager

Reviewed by:

Vesta Hsu
Supervisor of report document dept.

2 EUT DESCRIPTION

Product	SubCompact Board
Brand Name	AAEON
Model	GENE-U15B-xxxxxx(Where x is 0-9，A-Z，- or blank)
Applicant	AAEON Technology Inc.
Housing material	N/A
Identify Number	T110308202
Received Date	March 08, 2011
EUT Power Rating	5VDC / 12VDC from Adaptor
AC Power During Test	120VAC / 60Hz to Adaptor
OSC/Clock Frequencies	14.31818MHz; 25MHz; 32.768kHz

Model Differences

Model Name	Differences	Tested (Checked)
GENE-U15B	Original	☒
GENE-U15B-xxxxxx	1. Where x is 0-9，A-Z，- or blank 2. For marketing purchases only	☐

I/O PORT

I/O PORT TYPES	Q'TY	TESTED WITH
1. VGA Port	1	1
2. Earphone Port	1	1
3. Microphone Port	1	1
4. USB Port	6	6
5. LAN Port	1	1
6. S-Video Port	1	1
7. AV (Video/R/L) Port	1/1/1	1/1/1
8. PS/2 One To Two Adaptor	1	1
9. SIO Port	4	4
10. Digital IO Port	1	1

Note: Client consigns only one model sample to test (Model Number: GENE-U15B).

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 Modes:

1	**AV MODE**
2	**S-VIDEO MODE**

Radiation Modes:

1	**AV MODE**
	AV MODE / 1-8GHz
2	**S-VIDEO MODE**

Conduction: Mode 2

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 media player to play music.
4. Run Winemc.exe and choose “C:/ & D:/ & E:/ & F:/ & G:/ & H:/ & I:/” to test EUT.
5. Press the start menu, select executive and type ping 192.168.0.1 –t (EUT), ping 192.168.0.10 –t (Server Notebook).
6. Press AMCap.exe then click option, crossbar Video input, Video composite or Video S-video for test EUT.

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.

Host PC Devices:

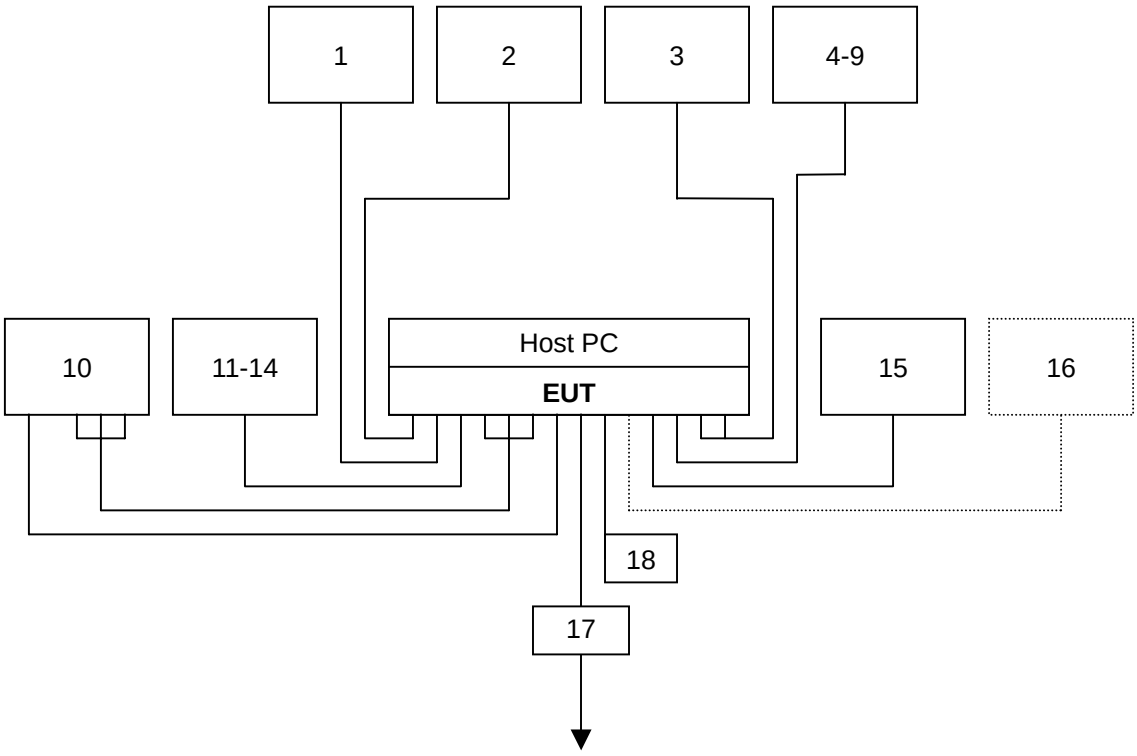
No.	Equipment	Model No.	Brand Name
1	CPU (1.6GHz)	ATOM Z530	INTEL
2	On Board NAND-FLASH (4GB)	SST85LD1004T	SST
3	Memory (DDR2-667 / 2GB)	N/A	KingSton
4	Mini PCI Express Module	PER-V36C-xxxxxx(Where x is 0-9，A-Z，- or blank)	AAEON
Note: Client consigns samples to test (Mini PCI Express Module Model Number: PER-V36C-A10).			

Peripherals Devices:

No.	Equipment	Model No.	Serial No.	FCC ID / BSMI ID	Brand Name	Data Cable	Power Cord
1	PS/2 Mouse	M071KC	443029438	DOC BSMI: R41108	DELL	Shielded, 1.8m	N/A
2	PS/2 Keyboard	SK-8110	N/A	DOC BSMI: T3A002	DELL	Shielded, 1.8m	N/A
3	Earphone & Microphone	SBZ-4	N/A	N/A	KRONE	Unshielded, 2.0m	N/A
4-6	USB 2.0 HDD	HD-234	N/A	N/A	A-Tec	Shielded, 1.8m	N/A
7-9	USB 2.0 HDD	F12-UF	N/A	BSMI ID: 4912A002	TeraSys	Shielded, 1.8m	N/A
10	DVD Player	DVD-S660 LT	N/A	DOC BSMI: R31017	Panasonic	AV: Unshielded, 1.8m S-Video: Unshielded, 1.0m	Unshielded, 1.8m
11-14	Modem	AL-56ERM	N/A	DOC	GALILEO	Shielded, 1.0m	Unshielded, 1.8m
15	Monitor	2408WFPb	N/A	DOC BSMI: R43002	DELL	Shielded, 1.8m with two cores	Unshielded, 1.8m
16	Server Notebook	PP05L	2464936188	DOC BSMI: R33002	DELL	Unshielded, 10m	Unshielded, 1.8m with a core
17	Adaptor	AD1280MB	N/A	DOC BSMI: R33876	ZOOTY	Unshielded, 1.5m with a core	Unshielded, 1.8m
18	Digital IO Cable	N/A	N/A	N/A	N/A	Unshielded, 1.5m	N/A

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 Lab. at No.163-1, Jhongsheng Rd, Sindian City, Taipei County 23151, Taiwan (R.O.C.).

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, http:///www.ccsrf.com

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	± 1.19
Radiated emissions	30MHz ~ 1000MHz	± 3.83
	1000MHz ~ 18000MHz	± 1.99
	18000MHz ~ 26000MHz	± 2.65
	26000MHz ~ 40000MHz	± 2.97

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)	
	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 # A				
Name of Equipment	**Manufacturer**	**Model**	**Serial Number**	**Calibration Due**
TEST RECEIVER	R&S	ESHS20	840455/006	02/22/2012
LISN (EUT)	SCHWARZBECK	NSLK 8127	8127527	12/13/2011
LISN	SCHWARZBECK	NSLK 8127	8127526	12/13/2011
BNC CABLE	MIYAZAKI	5D-FB	BNC A5	02/07/2012
THERMO-HYGRO METER	TECPEL	DTM-303	NO.3	11/18/2011
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)

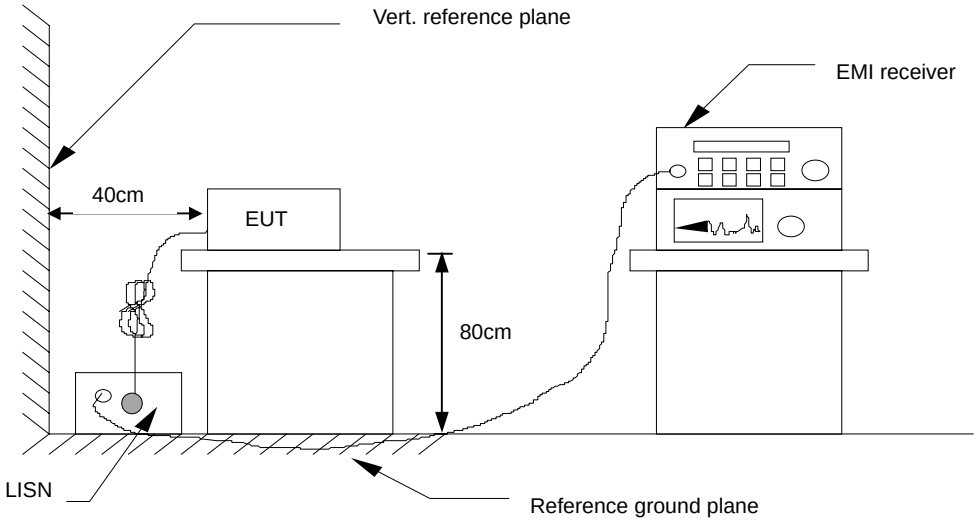
Procedure of Preliminary Test

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

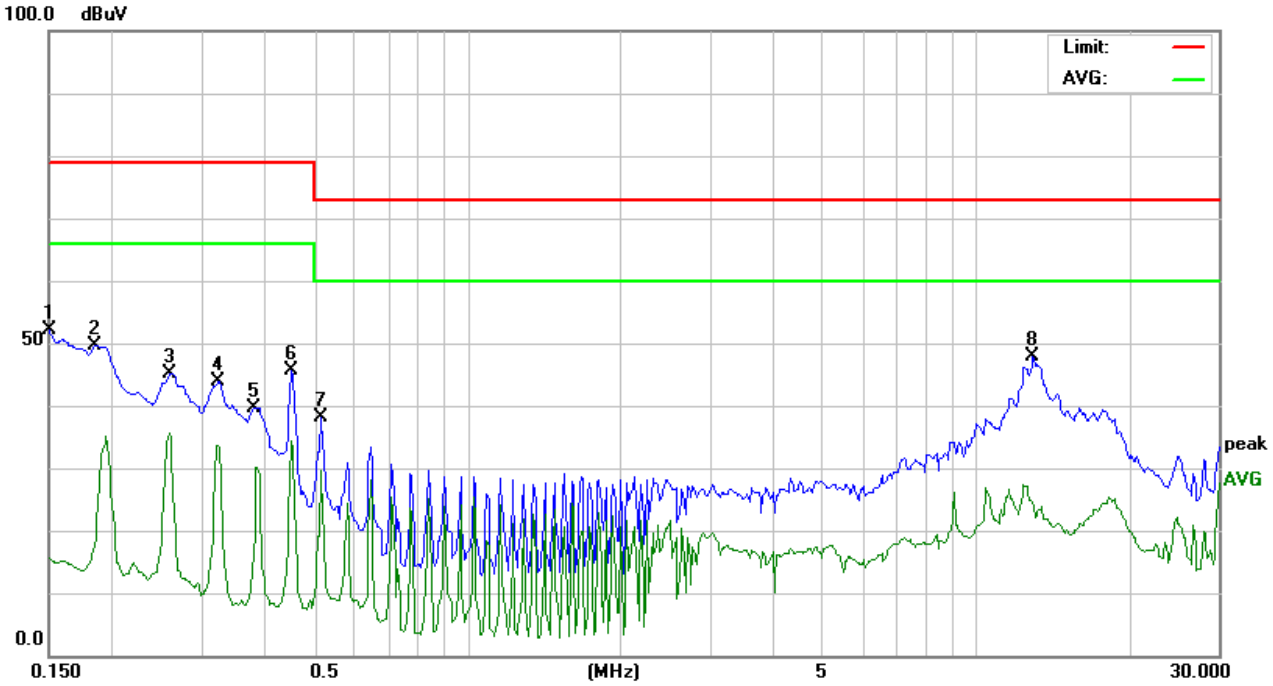
Freq. = Emission frequency in MHz
Reading = Uncorrected Analyzer/Receiver reading
Factor = Insertion loss of LISN + Cable Loss
Result = Reading + Factor
Limit = Limit stated in standard
Margin = Reading in reference to limit
P = Peak Reading
Q = Quasi-peak Reading
A = Average Reading
L1 = Hot side
L2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

Calculation Formula

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

6.6. TEST RESULTS

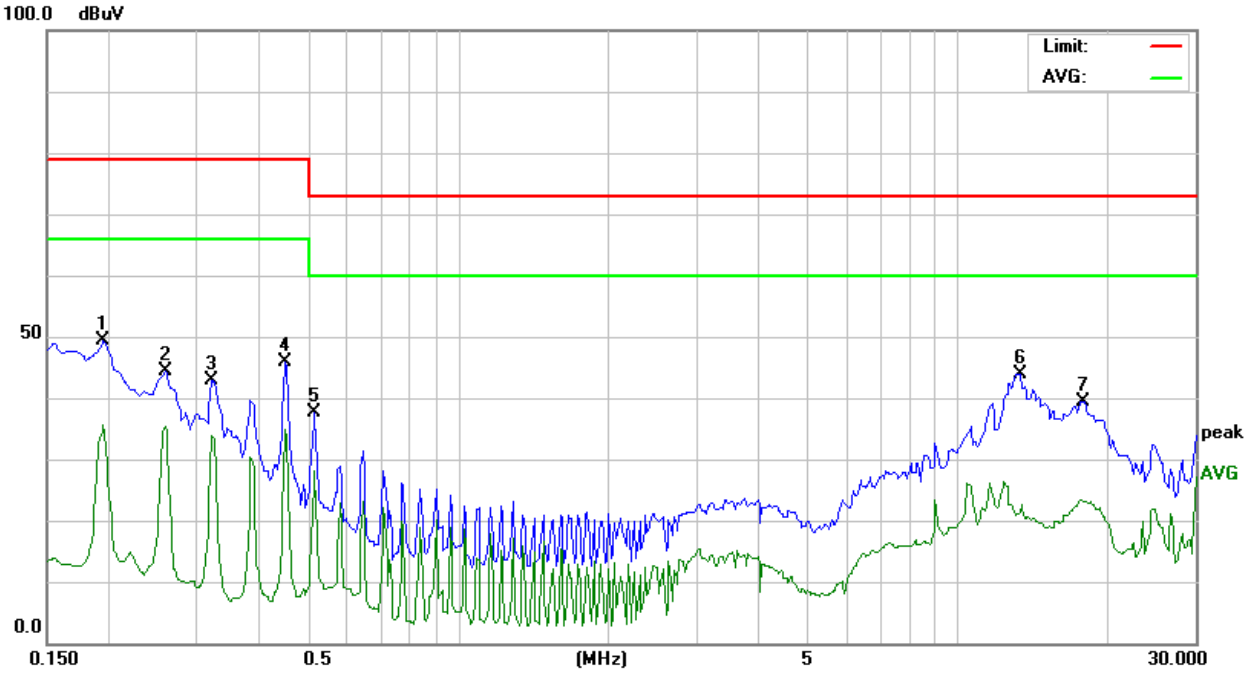
Model No.	GENE-U15B	6dB Bandwidth	10 kHz
Environmental Conditions	21deg.C, 55% RH, 1008hPa	Test Mode	Mode 2
Tested by	Jason Lee	Phase	L1
Standard	FCC CLASS A		



Conducted Emission Readings							
Frequency Range Investigated				150 kHz to 30 MHz			
Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector (P/Q/A)	Line (L1/L2)
0.1500	51.92	0.10	52.02	79.00	-26.98	P	L1
0.1850	49.50	0.09	49.59	79.00	-29.41	P	L1
0.2600	45.06	0.09	45.15	79.00	-33.85	P	L1
0.3250	43.90	0.09	43.99	79.00	-35.01	P	L1
0.3800	39.50	0.09	39.59	79.00	-39.41	P	L1
0.4500	45.63	0.09	45.72	79.00	-33.28	P	L1
0.5150	37.94	0.10	38.04	73.00	-34.96	P	L1
12.9700	47.38	0.60	47.98	73.00	-25.02	P	L1

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.

Model No.	GENE-U15B	**6dB Bandwidth**	10 kHz
Environmental Conditions	21deg.C, 55% RH, 1008hPa	**Test Mode**	Mode 2
Tested by	Jason Lee	**Phase**	L2
Standard	FCC CLASS A		



Conducted Emission Readings							
Frequency Range Investigated				**150 kHz to 30 MHz**			
Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector (P/Q/A)	Line (L1/L2)
0.1949	**49.32**	**0.08**	**49.40**	**79.00**	**-29.60**	**P**	**L2**
0.2600	**44.18**	**0.08**	**44.26**	**79.00**	**-34.74**	**P**	**L2**
0.3200	**42.82**	**0.08**	**42.90**	**79.00**	**-36.10**	**P**	**L2**
0.4500	**45.79**	**0.08**	**45.87**	**79.00**	**-33.13**	**P**	**L2**
0.5150	**37.52**	**0.09**	**37.61**	**73.00**	**-35.39**	**P**	**L2**
13.2667	**43.38**	**0.61**	**43.99**	**73.00**	**-29.01**	**P**	**L2**
17.9300	**38.76**	**0.73**	**39.49**	**73.00**	**-33.51**	**P**	**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

Above 1GHz(for all device)

Frequency (MHZ)	Class A (dBuV/m) (At 10m)		Class B (dBuV/m) (At 3m)	
	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 **L_2** corresponding to the close-in distance **d_2** by applying the following relation: **$L_2 = L_1 (d_1/d_2)$**, where **L_1** is the specified limit in microvolts per metre (**uV/m**) at the distance **d_1** (**10m**), **L_2** is the new limit for distance **d_2** (**3m**).
So the new Class A limit above 1GHz at 3m is as following table:

Frequency (MHZ)	Class A (dBuV/m) (At 3m)	
	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	07/05/2011
SPECTRUM ANALYZER	ADVANTEST	R3132	120900008	No Calibration Required
ANTENNA	SCHAFFNER	CBL 6112B	2809	10/03/2011
AMPLIFIER	SCHAFFNER	CPA9231A	3626	10/10/2011
CABLE	PACIFIC	8D-FB	N-TYPE #I4	01/17/2012
THERMO-HYGRO METER	TECPEL	DTM-303	090639	05/23/2011
Test S/W	EZ-EMC			
Above 1GHz Used				
MEASURE RECEIVER	SCHAFFNER	SCR3501	342	06/28/2011
ANTENNA (30-1000MHz)	SUNOL	JB1	A022310	10/04/2011
PRE-AMPLIFIER	EMCI	EMC330	980022	01/20/2012
CABLE (30-1000MHz)	HUBER +SUHNER	SUCOFLEX 102	33105/2	01/20/2012
CABLE (30-1000MHz)	EMCI	EMCI-C-14	CH-D#13	01/20/2012
ATTENUATOR	MCL	BW-S6W5	CH-D#14	01/20/2012
LOOP ANTENNA	EMCO	6502	8905-2356	06/10/2013
SPECTRUM ANALYZER (9kHz-30GHz)	R&S	FSP 30	100112	12/07/2011
SPECTRUM ANALYZER (9kHz-40GHz)	Agilent	E4446A	MY48250064	12/29/2011
ANTENNA (1-18GHz)	EMCO	3115	00022256	01/09/2012
AMPLIFIER (1-18GHz)	HP	8449B	3008A01266	12/19/2011
CABLE (1-40GHz)	HUBER +SUHNER	SUCOFLEX 102	33106/2	12/19/2011
CABLE (18-40GHz)	HUBER +SUHNER	SUCOFLEX 102	33633/2	12/19/2011
CABLE (1-26.5GHz)	HUBER +SUHNER	SUCOFLEX 104PEA	33959/4PEA	12/19/2011
CABLE (1-26.5GHz)	HUBER +SUHNER	SUCOFLEX 104PEA	33960/4PEA	12/19/2011
THERMO-HYGRO METER	TECPEL	DTM-303	NO.3	11/18/2011
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.

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

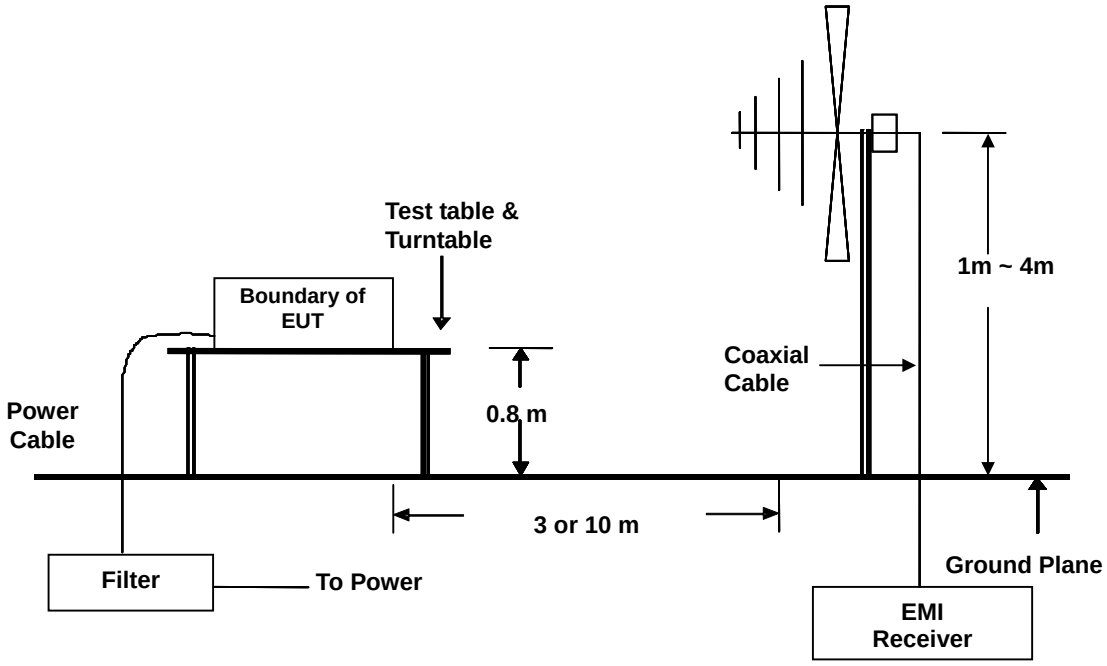
Procedure of Preliminary Test

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

Above 1GHz

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

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
A = Average Reading
H = Antenna Polarization: Horizontal
V = Antenna Polarization: Vertical

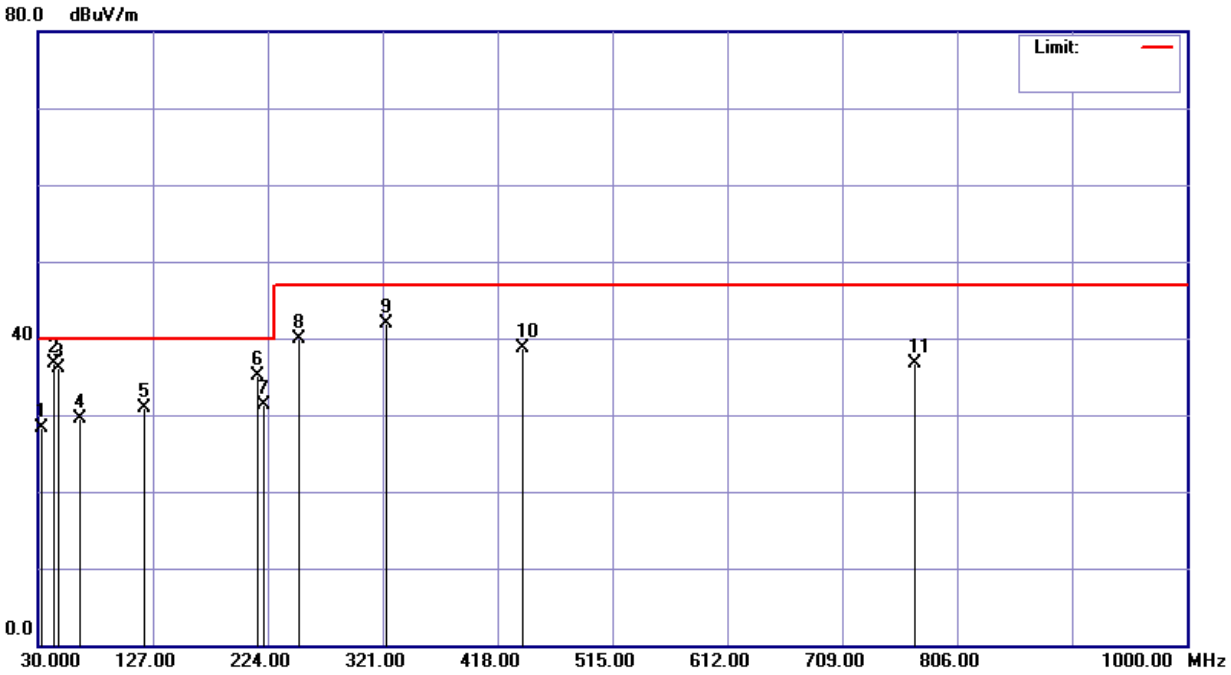
Calculation Formula

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

7.6. TEST RESULTS

Below 1GHz

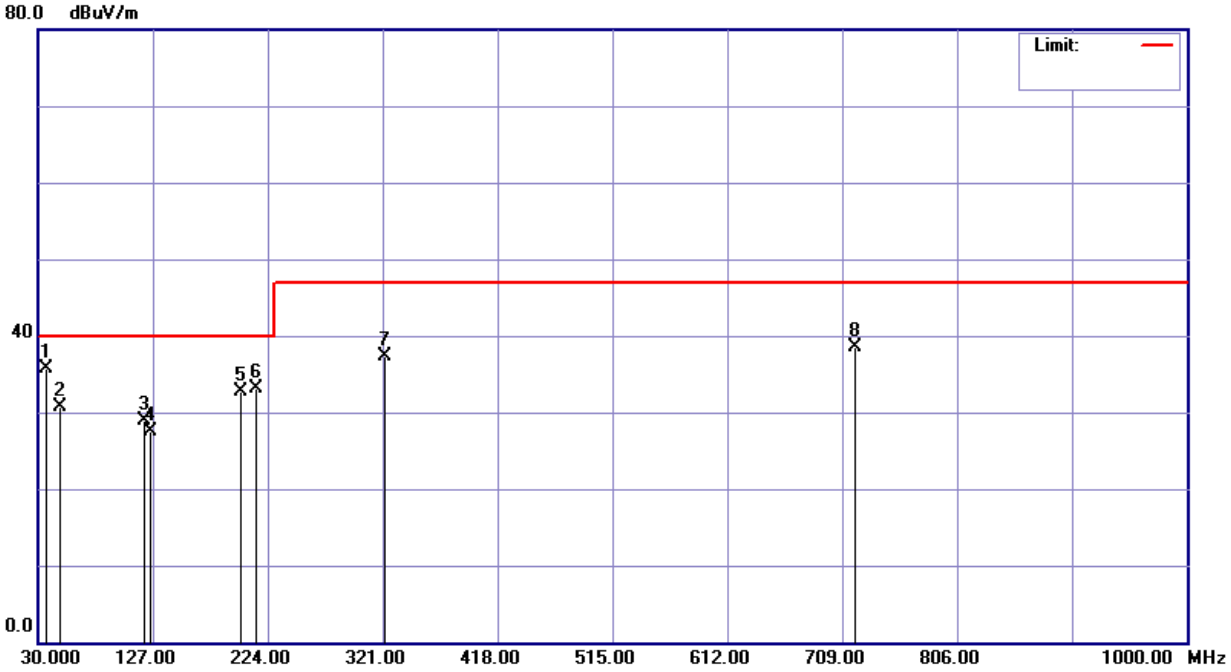
Model No.	GENE-U15B	Test Mode	Mode 1
Environmental Conditions	18deg.C, 53% RH, 1004hPa	6dB Bandwidth	120 kHz
Antenna Pole	Vertical	Antenna Distance	10m
Detector Function	Quasi-peak.	Tested by	Bill Huang
Standard	FCC CLASS A W/ EN 55022 CLASS A LIMIT		



Radiated Emission Readings									
Frequency Range Investigated				30 MHz to 1000 MHz at 10m					
Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Detector (P/Q)	Pol. (H/V)
33.5950	41.00	-12.60	28.40	40.00	-11.60	100	321	Q	V
43.1600	53.62	-16.94	36.68	40.00	-3.32	100	53	Q	V
47.9800	54.30	-18.16	36.14	40.00	-3.86	100	162	Q	V
65.0300	51.76	-22.23	29.53	40.00	-10.47	100	44	Q	V
119.9900	46.88	-15.91	30.97	40.00	-9.03	100	117	Q	V
216.0000	53.44	-18.25	35.19	40.00	-4.81	100	32	Q	V
220.5900	49.37	-18.15	31.22	40.00	-8.78	100	63	Q	V
250.0010	54.57	-14.73	39.84	47.00	-7.16	100	259	Q	V
324.2000	55.17	-13.21	41.96	47.00	-5.04	100	192	Q	V
439.9750	48.41	-9.79	38.62	47.00	-8.38	400	61	Q	V
769.8400	41.97	-5.26	36.71	47.00	-10.29	400	77	Q	V

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.

Model No.	GENE-U15B	Test Mode	Mode 1
Environmental Conditions	18deg.C, 53% RH, 1004hPa	6dB Bandwidth	120 kHz
Antenna Pole	Horizontal	Antenna Distance	10m
Detector Function	Quasi-peak.	Tested by	Bill Huang
Standard	FCC CLASS A W/ EN 55022 CLASS A LIMIT		



Radiated Emission Readings									
Frequency Range Investigated				30 MHz to 1000 MHz at 10m					
Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Detector (P/Q)	Pol. (H/V)
36.5450	**49.70**	**-13.92**	**35.78**	**40.00**	**-4.22**	**400**	**221**	**Q**	**H**
49.1300	**49.10**	**-18.35**	**30.75**	**40.00**	**-9.25**	**400**	**73**	**Q**	**H**
120.0100	**44.88**	**-15.91**	**28.97**	**40.00**	**-11.03**	**400**	**256**	**Q**	**H**
125.0200	**43.62**	**-16.07**	**27.55**	**40.00**	**-12.45**	**400**	**114**	**Q**	**H**
200.7400	**51.02**	**-18.36**	**32.66**	**40.00**	**-7.34**	**400**	**302**	**Q**	**H**
214.7800	**51.30**	**-18.26**	**33.04**	**40.00**	**-6.96**	**400**	**114**	**Q**	**H**
322.3000	**50.55**	**-13.26**	**37.29**	**47.00**	**-9.71**	**400**	**52**	**Q**	**H**
720.0340	**44.51**	**-5.94**	**38.57**	**47.00**	**-8.43**	**100**	**63**	**Q**	**H**

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 1GHz

Model No.	GENE-U15B	**Test Mode**	Mode 1
Environmental Conditions	18deg.C, 57% RH, 1006hPa	**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**	Jason Lee
Standard	FCC CLASS A		

Radiated Emission Readings							
Frequency Range Investigated				**Above 1GHz at 3m**			
Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector (P/A)	Pol. (H/V)
1090.000	**52.94**	**-9.85**	**43.09**	**80.00**	**-36.91**	**P**	**V**
1190.000	**55.72**	**-9.32**	**46.40**	**80.00**	**-33.60**	**P**	**V**
1335.000	**51.79**	**-8.57**	**43.22**	**80.00**	**-36.78**	**P**	**V**
1515.000	**52.03**	**-7.60**	**44.43**	**80.00**	**-35.57**	**P**	**V**
1585.000	**56.02**	**-7.16**	**48.86**	**80.00**	**-31.14**	**P**	**V**
2450.000	**50.91**	**-3.03**	**47.88**	**80.00**	**-32.12**	**P**	**V**

Radiated Emission Readings							
Frequency Range Investigated				**Above 1GHz at 3m**			
Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector (P/A)	Pol. (H/V)
1000.000	**48.11**	**-10.33**	**37.78**	**80.00**	**-42.22**	**P**	**H**
1065.000	**52.99**	**-9.98**	**43.01**	**80.00**	**-36.99**	**P**	**H**
1335.000	**48.34**	**-8.57**	**39.77**	**80.00**	**-40.23**	**P**	**H**
1600.000	**47.86**	**-7.07**	**40.79**	**80.00**	**-39.21**	**P**	**H**
2415.000	**48.46**	**-3.16**	**45.30**	**80.00**	**-34.70**	**P**	**H**
2460.000	**48.19**	**-3.00**	**45.19**	**80.00**	**-34.81**	**P**	**H**

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

RADIATED EMISSION TEST