



FCC 47 CFR PART 15 SUBPART B TEST REPORT

for

Compact Board

**MODEL: PCM-LN02-xxxxxx(Where x is 0-9 , A-Z , - or blank)
for marketing purpose**

Test Report Number:
T110613202-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,
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Issued Date: June 22, 2011



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Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	June 22, 2011	Initial Issue	ALL	Andrea Chen



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..... 7

 4.2. CONFIGURATION OF SYSTEM UNDER TEST 8

5 FACILITIES AND ACCREDITATIONS 9

 5.1. FACILITIES 9

 5.2. ACCREDITATIONS..... 9

 5.3. MEASUREMENT UNCERTAINTY 9

6 CONDUCTED EMISSION MEASUREMENT 10

 6.1. LIMITS OF CONDUCTED EMISSION MEASUREMENT 10

 6.2. TEST INSTRUMENTS 10

 6.3. TEST PROCEDURES..... 11

 6.4. TEST SETUP 12

 6.5. DATA SAMPLE 12

 6.6. TEST RESULTS 13

7 RADIATED EMISSION MEASUREMENT 15

 7.1. LIMITS OF RADIATED EMISSION MEASUREMENT 15

 7.2. TEST INSTRUMENTS 17

 7.3. TEST PROCEDURES..... 18

 7.4. TEST SETUP 19

 7.5. DATA SAMPLE 20

 7.6. TEST RESULTS 21

8 PHOTOGRAPHS OF THE TEST CONFIGURATION 26

APPENDIX 1 - PHOTOGRAPHS OF EUTA1-1



1 TEST RESULT CERTIFICATION

Product: Compact Board

Model: PCM-LN02-xxxxxx(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 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: June 14, 2011 ~ June 17, 2011

EMISSION			
Standard	Item	Result	Remarks
FCC 47 CFR Part 15 Subpart B, ICES-003 Issue 4 ANSI C63.4-2009	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:

Reviewed by:



 Sam Hu
 Section Manager



 Vesta Hsu
 Supervisor of report document dept.



2 EUT DESCRIPTION

Product	Compact Board
Brand Name	AAEON
Model	PCM-LN02-xxxxxx(Where x is 0-9 , A-Z , - or blank) for marketing purpose
Applicant	AAEON Technology Inc.
Housing material	N/A
Identify Number	T110613202
Received Date	June 13, 2011
EUT Power Rating	+3.3V; $\pm 5V$; $\pm 12V$; 5VSB from Host PC Power Supply
AC Power During Test	120VAC / 60Hz to Host PC Power Supply
OSC/Clock Frequencies	25MHz; 14.31818MHz; 32.768kHz

Model Differences

Model Name	Differences	Tested (Checked)
PCM-LN02	Original	<input checked="" type="checkbox"/>
PCM-LN02-xxxxxx	1. Where x is 0-9 , A-Z , - or blank 2. For marketing purpose	<input type="checkbox"/>

I/O PORT

I/O PORT TYPES	Q'TY	TESTED WITH
1. PIO Port	1	1
2. SIO Port	8	8
3. PS/2 one to two adaptor	1	1
4. VGA Port	1	1
5. Audio Port	1	1
6. Earphone Port	1	1
7. Microphone Port	1	1
8. USB Port	6	6
9. LAN Port	2	2

Note: Client consigns only one model sample to test (Model Number: PCM-LN02).



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 mode is as the following:

Conduction Mode:

1	Normal Mode
---	-------------

Radiation Mode:

1	Normal Mode
	Normal Mode / Open Chassis
	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 media player to play music.
4. Run Winemc.exe then choose “F:/ & G:/ & H:/ & I:/ & J:/ & K:/” to test EUT.
5. Press the start menu, select executive and type ping 192.168.0.10-t (EUT), ping 192.168.0.1 (Server Notebook).
6. Press the start menu, select executive and type ping 192.168.0.20-t (EUT), ping 192.168.0.2 (Server Notebook).

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 (1.8GHz)	Atom D525	Intel
2	HDD (160GB)	MK1665GSX	Toshiba
3	Memory (2GB / DDR3/667/800)	H57Q2GB838FR	hynix
4	AC-DC Power (300W)	FSP300-701UJ	FSP
5	PCI-Express Mini Card	PER-C21C-xxxxxx(Where x is 0-9 · A-Z · - or blank) for marketing purpose	AAEON

Note: Client consigns only one model sample to test (PCI-Express Mini Card Model Number: PER-C21C).

Peripherals Devices:

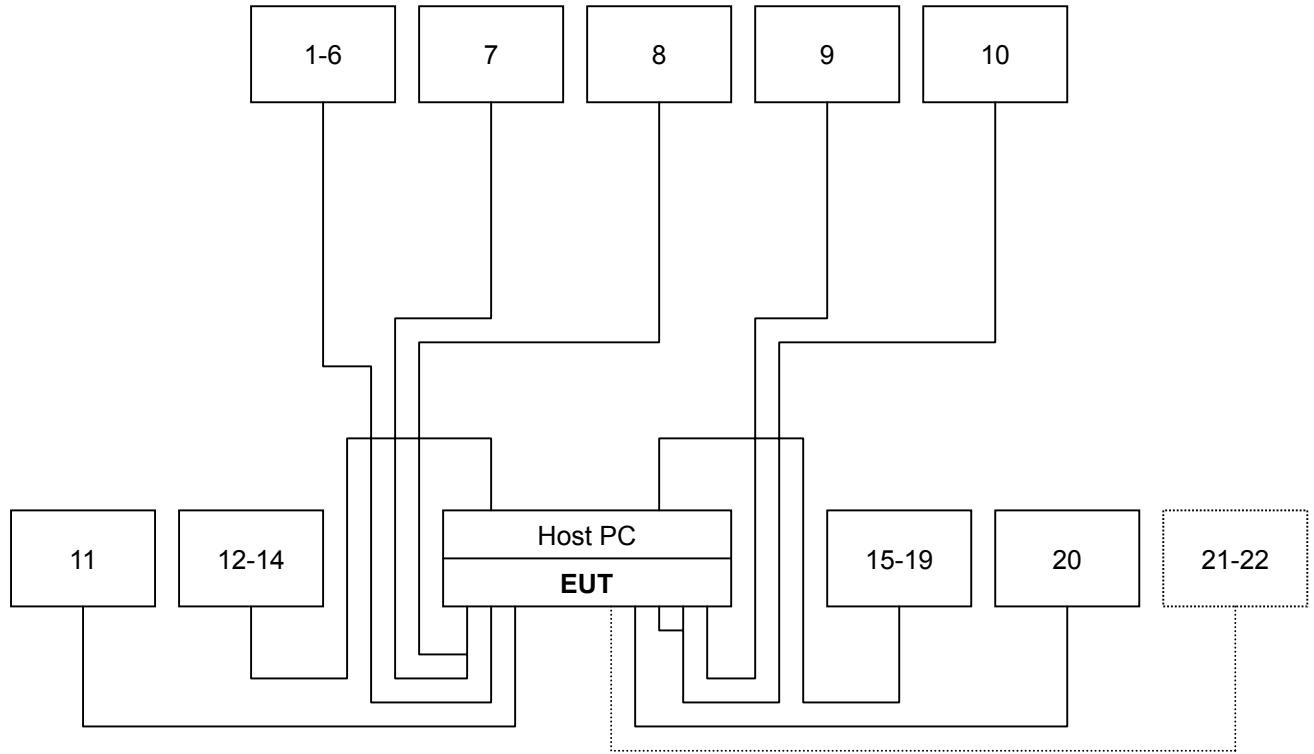
No.	Equipment	Model No.	Serial No.	FCC ID / BSMI ID	Brand Name	Data Cable	Power Cord
1-6	USB 2.0 HDD	ME-911	N/A	DOC BSMI: D33031	PORTABLE	Shielded, 1.8m with a core	N/A
7	PS/2 Mouse	M-SBF96	FATSQ0C5BYJQKZ	DOC BSMI: R41126	hp	Shielded, 1.8m	N/A
8	PS/2 Keyboard	SK-2880	BAUEL0HCPY76G7	DOC BSMI: T3A002	hp	Shielded, 1.8m	N/A
9	Player	RQ-L12LT	N/A	BSMI ID: 3912A162	Panasonic	Unshielded, 1.4m	N/A
10	Earphone & Microphone	MSB301	N/A	N/A	e-Sense	Unshielded, 2.0m	N/A
11	Printer	EPSON C60	DR3K039417	BSMI ID: 3902E006	EPSON	Shielded, 1.8m	Unshielded, 1.8m
12-14	Modem	AL-56ERM	N/A	DOC	GALILEO	Shielded, 1.0m	Unshielded, 1.8m
15-19	Modem	AL-56ERM	N/A	DOC	GALILEO	Shielded, 1.0m	Unshielded, 1.8m
20	Monitor	202P40	BZ000403770329	FCC ID: A3KM107 BSMI: R33048	PHILIPS	Shielded, 1.8m with two cores	Unshielded, 1.8m
21	Server Notebook	Compaq 2210b	CNU7472KDP	N/A	HP	Unshielded, 20m	Unshielded, 1.8m
22	Server Notebook	2210B	CNV7472KG5	DoC BSMI: R33001	HP	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 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 SW	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)

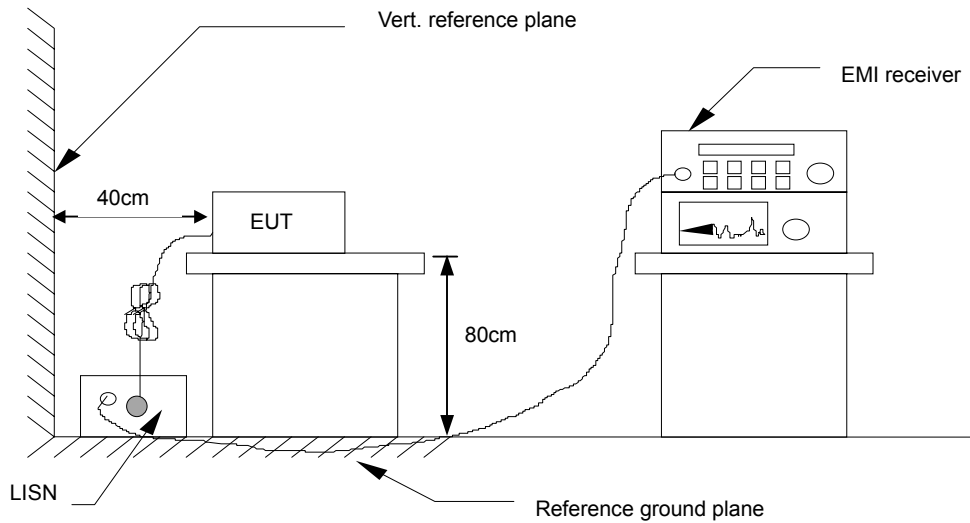
Procedure of Preliminary Test

- 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

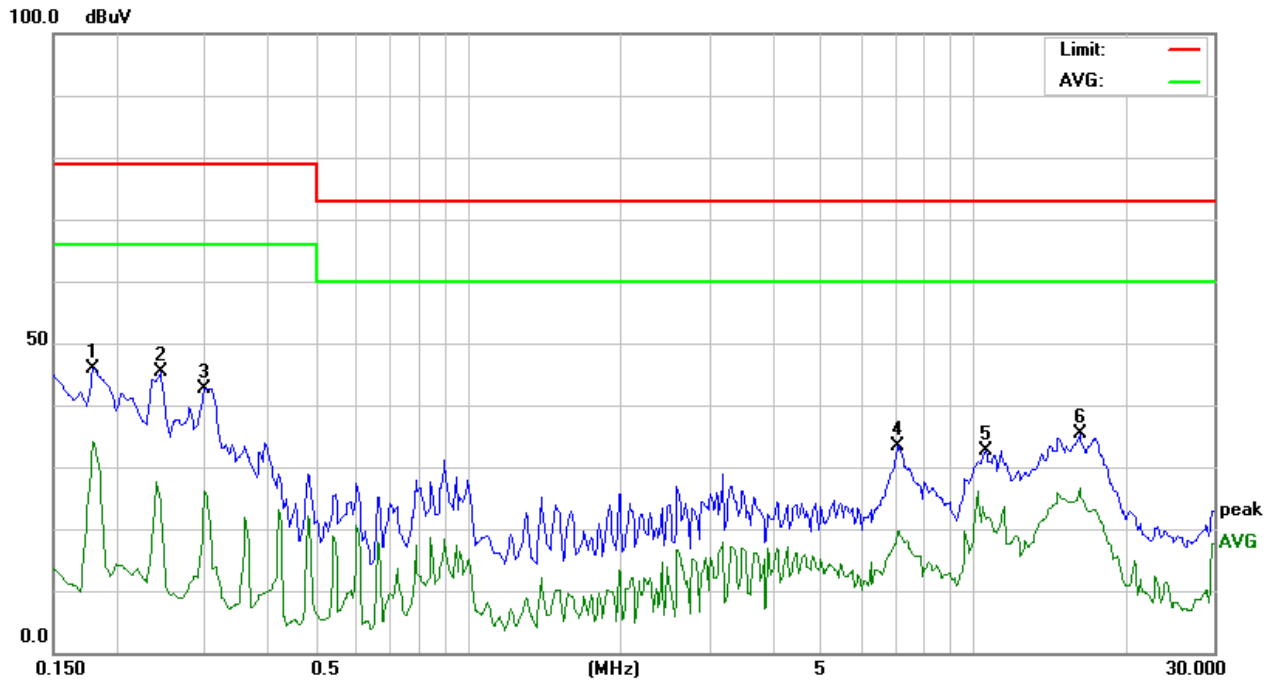
Calculation Formula

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



6.6. TEST RESULTS

Model No.	PCM-LN02	6dB Bandwidth	10 kHz
Environmental Conditions	22°C, 55% RH, 1010mbar	Test Mode	Mode 1
Tested by	KEVIN WANG	Phase	L1
Standard	FCC CLASS A		

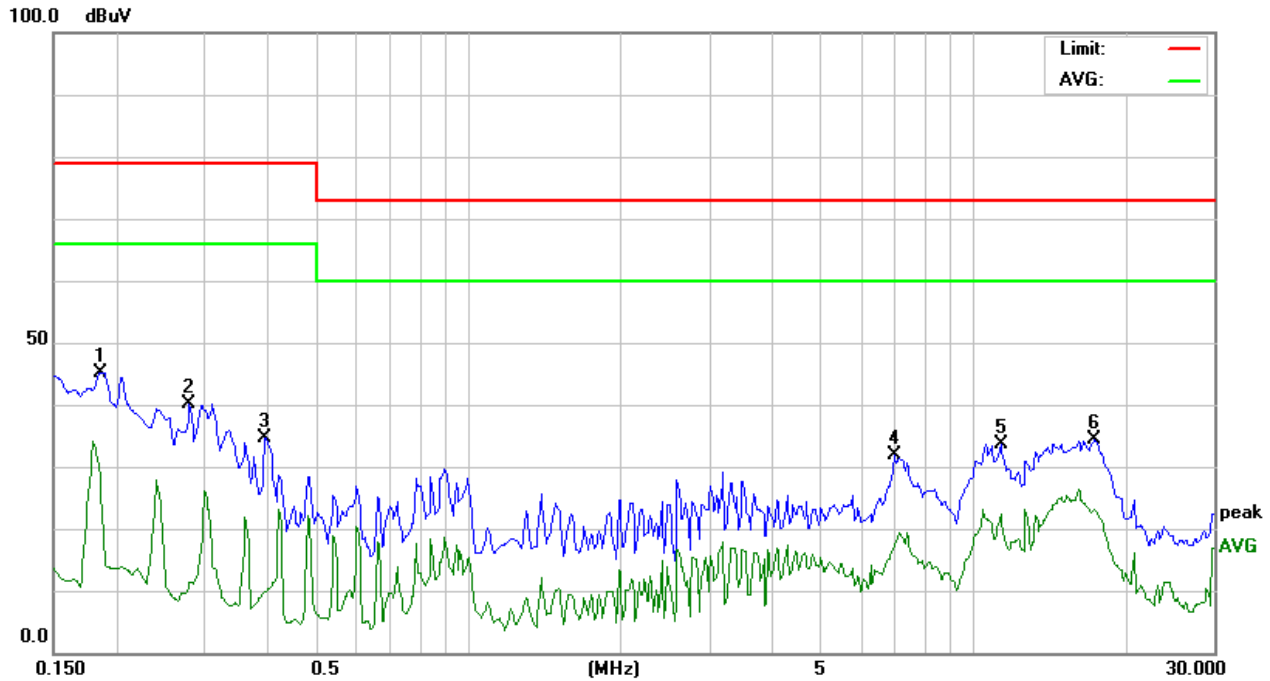


Conducted Emission Readings							
Frequency Range Investigated				150 kHz to 30 MHz			
Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector (P/Q/A)	Line (L1/L2)
0.1800	45.88	0.09	45.97	79.00	-33.03	P	L1
0.2450	45.30	0.09	45.39	79.00	-33.61	P	L1
0.3000	42.60	0.09	42.69	79.00	-36.31	P	L1
7.0900	33.06	0.42	33.48	73.00	-39.52	P	L1
10.5700	32.20	0.54	32.74	73.00	-40.26	P	L1
16.2400	34.64	0.69	35.33	73.00	-37.67	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.	PCM-LN02	6dB Bandwidth	10 kHz
Environmental Conditions	22°C, 55% RH, 1010mbar	Test Mode	Mode 1
Tested by	KEVIN WANG	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)
0.1849	45.02	0.09	45.11	79.00	-33.89	P	L2
0.2800	40.00	0.09	40.09	79.00	-38.91	P	L2
0.3950	34.64	0.09	34.73	79.00	-44.27	P	L2
6.9699	31.50	0.42	31.92	73.00	-41.08	P	L2
11.3200	33.16	0.56	33.72	73.00	-39.28	P	L2
17.4400	33.58	0.73	34.31	73.00	-38.69	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 L₂ corresponding to the close-in distance d₂ by applying the following relation: $L_2 = L_1 (d_1/d_2)$, 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 (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 #14	01/17/2012
THERMO-HYGRO METER	TECPEL	DTM-303	090639	05/16/2012
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)

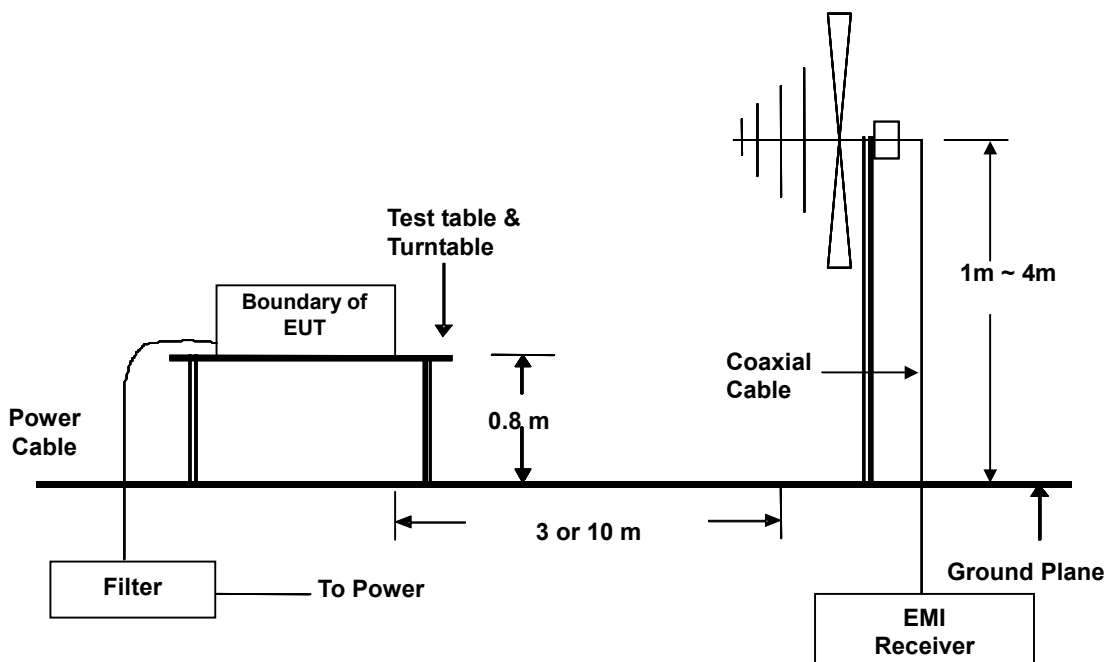
Procedure of Preliminary Test

- 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 or 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

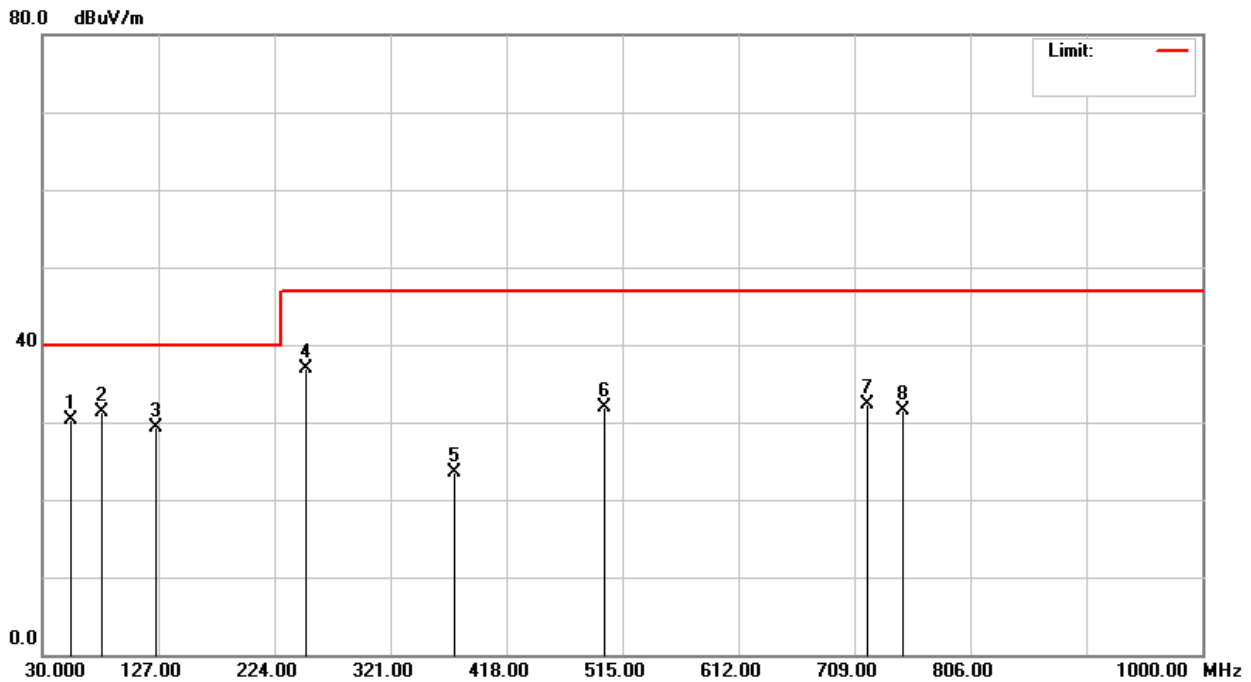
Margin (dB) = Result (dBuV/m) – Limit (dBuV/m)



7.6. TEST RESULTS

Below 1GHz

Model No.	PCM-LN02	Test Mode	Mode 1
Environmental Conditions	22°C, 73% RH, 1010mbar	6dB Bandwidth	120 kHz
Antenna Pole	Vertical	Antenna Distance	10m
Detector Function	Quasi-peak.	Tested by	FRANK LIAO
Standard	FCC CLASS A W/ EN 55022 CLASS A LIMIT		

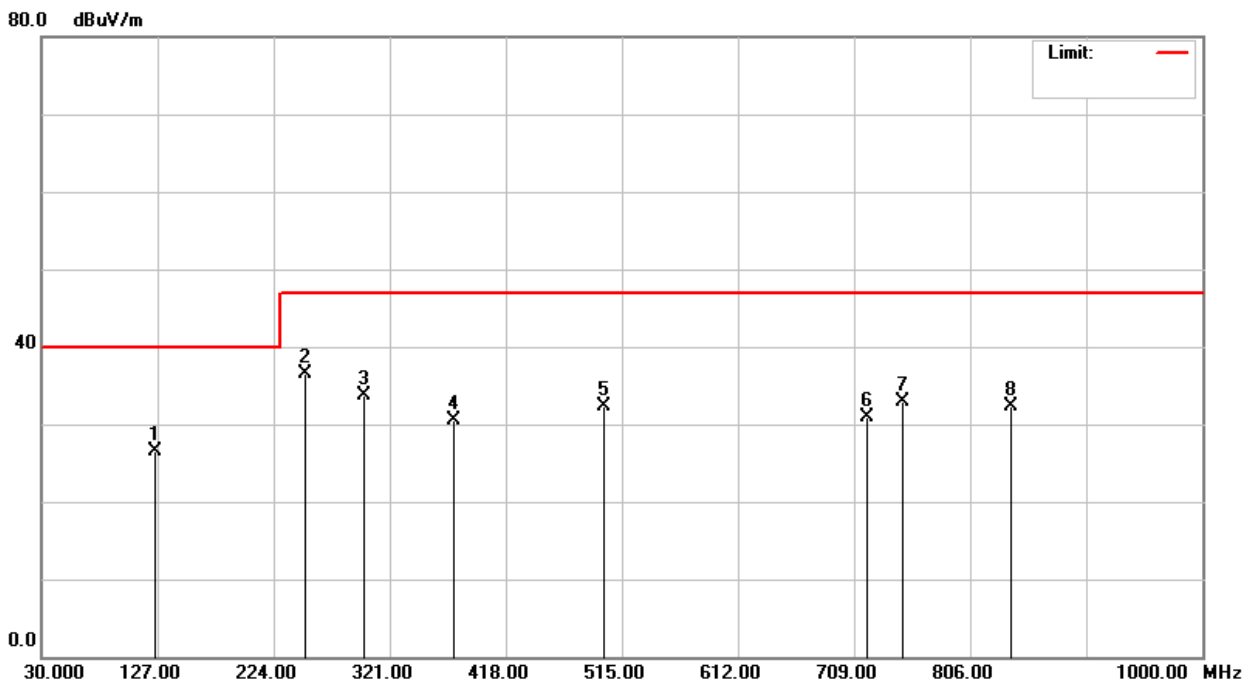


Radiated Emission Readings									
Frequency Range Investigated				30 MHz to 1000 MHz at 10m					
Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Detector (P/Q)	Pol. (H/V)
53.2900	50.00	-19.76	30.24	40.00	-9.76	100	135	Q	V
79.9290	52.50	-21.15	31.35	40.00	-8.65	100	192	Q	V
125.0100	45.40	-16.07	29.33	40.00	-10.67	100	108	Q	V
250.0120	51.60	-14.73	36.87	47.00	-10.13	100	134	Q	V
375.0160	35.30	-11.74	23.56	47.00	-23.44	100	181	Q	V
500.0200	40.80	-8.87	31.93	47.00	-15.07	400	230	Q	V
720.0100	38.20	-5.94	32.26	47.00	-14.74	400	152	Q	V
750.0120	36.90	-5.36	31.54	47.00	-15.46	400	142	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.	PCM-LN02	Test Mode	Mode 1
Environmental Conditions	22°C, 73% RH, 1010mbar	6dB Bandwidth	120 kHz
Antenna Pole	Horizontal	Antenna Distance	10m
Detector Function	Quasi-peak.	Tested by	FRANK LIAO
Standard	FCC CLASS A W/ EN 55022 CLASS A LIMIT		

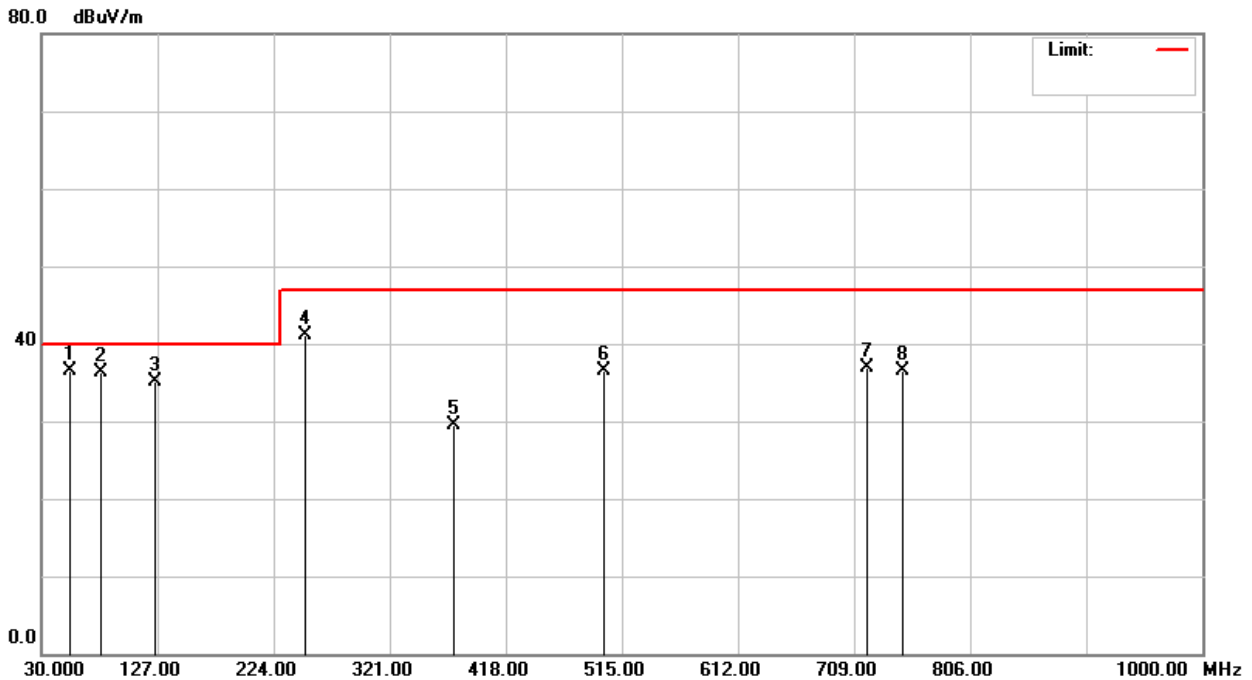


Radiated Emission Readings									
Frequency Range Investigated				30 MHz to 1000 MHz at 10m					
Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Detector (P/Q)	Pol. (H/V)
124.9900	42.60	-16.07	26.53	40.00	-13.47	400	151	Q	H
250.0100	51.20	-14.73	36.47	47.00	-10.53	400	190	Q	H
300.0200	47.50	-13.82	33.68	47.00	-13.32	400	135	Q	H
375.0100	42.20	-11.74	30.46	47.00	-16.54	400	108	Q	H
500.0100	41.20	-8.87	32.33	47.00	-14.67	100	147	Q	H
720.0110	36.80	-5.94	30.86	47.00	-16.14	100	69	Q	H
750.0200	38.20	-5.36	32.84	47.00	-14.16	100	195	Q	H
840.0140	36.90	-4.61	32.29	47.00	-14.71	100	184	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.



Model No.	PCM-LN02	Test Mode	Mode 1
Environmental Conditions	22°C, 73% RH, 1010mbar	6dB Bandwidth	120 kHz
Antenna Pole	Vertical	Antenna Distance	10m
Detector Function	Quasi-peak.	Tested by	FRANK LIAO
Standard	FCC CLASS A W/ EN 55022 CLASS A LIMIT + 6dB		

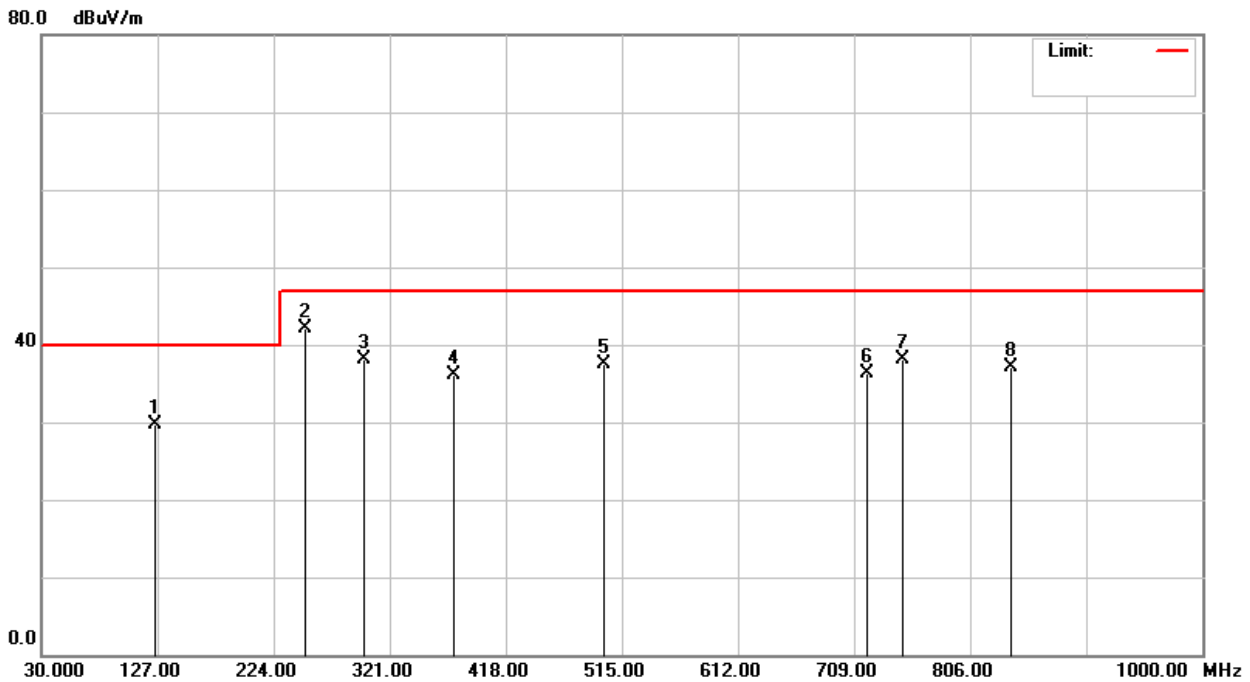


Radiated Emission Readings									
Frequency Range Investigated				30 MHz to 1000 MHz at 10m					
Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Detector (P/Q)	Pol. (H/V)
53.3200	56.20	-19.77	36.43	46.00	-9.57	100	142	Q	V
79.9340	57.50	-21.15	36.35	46.00	-9.65	100	182	Q	V
125.0200	51.20	-16.07	35.13	46.00	-10.87	100	139	Q	V
250.0140	55.80	-14.73	41.07	53.00	-11.93	100	147	Q	V
375.0120	41.20	-11.74	29.46	53.00	-23.54	100	163	Q	V
500.0100	45.40	-8.87	36.53	53.00	-16.47	400	234	Q	V
720.0120	42.80	-5.94	36.86	53.00	-16.14	400	161	Q	V
750.0200	41.90	-5.36	36.54	53.00	-16.46	400	151	Q	V

- Note:**
- 30MHz to 1000MHz test is Applicable CISPR 22 / EN 55022 standard.
 - The other emission levels were very low against the limit.
 - P= Peak Reading; Q= Quasi-peak Reading.



Model No.	PCM-LN02	Test Mode	Mode 1
Environmental Conditions	22°C, 73% RH, 1010mbar	6dB Bandwidth	120 kHz
Antenna Pole	Horizontal	Antenna Distance	10m
Detector Function	Quasi-peak.	Tested by	FRANK LIAO
Standard	FCC CLASS A W/ EN 55022 CLASS A LIMIT + 6dB		



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)
125.0100	45.80	-16.07	29.73	46.00	-16.27	400	163	Q	H
250.0200	56.90	-14.73	42.17	53.00	-10.83	400	185	Q	H
300.0120	51.90	-13.82	38.08	53.00	-14.92	400	141	Q	H
375.0140	47.80	-11.74	36.06	53.00	-16.94	400	192	Q	H
500.0100	46.30	-8.87	37.43	53.00	-15.57	100	108	Q	H
720.0140	42.20	-5.94	36.26	53.00	-16.74	100	95	Q	H
750.0150	43.50	-5.36	38.14	53.00	-14.86	100	136	Q	H
840.0100	41.80	-4.61	37.19	53.00	-15.81	100	175	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.	PCM-LN02	Test Mode	Mode 1
Environmental Conditions	26°C, 60% RH, 1010mbar	6dB Bandwidth	1 MHz
Antenna Pole	Vertical / Horizontal	Antenna Distance	3m
Highest frequency generated or used	1800MHz	Upper frequency	8000MHz
Detector Function	Peak or average.	Tested by	JASON LEE
Standard	FCC CLASS A		

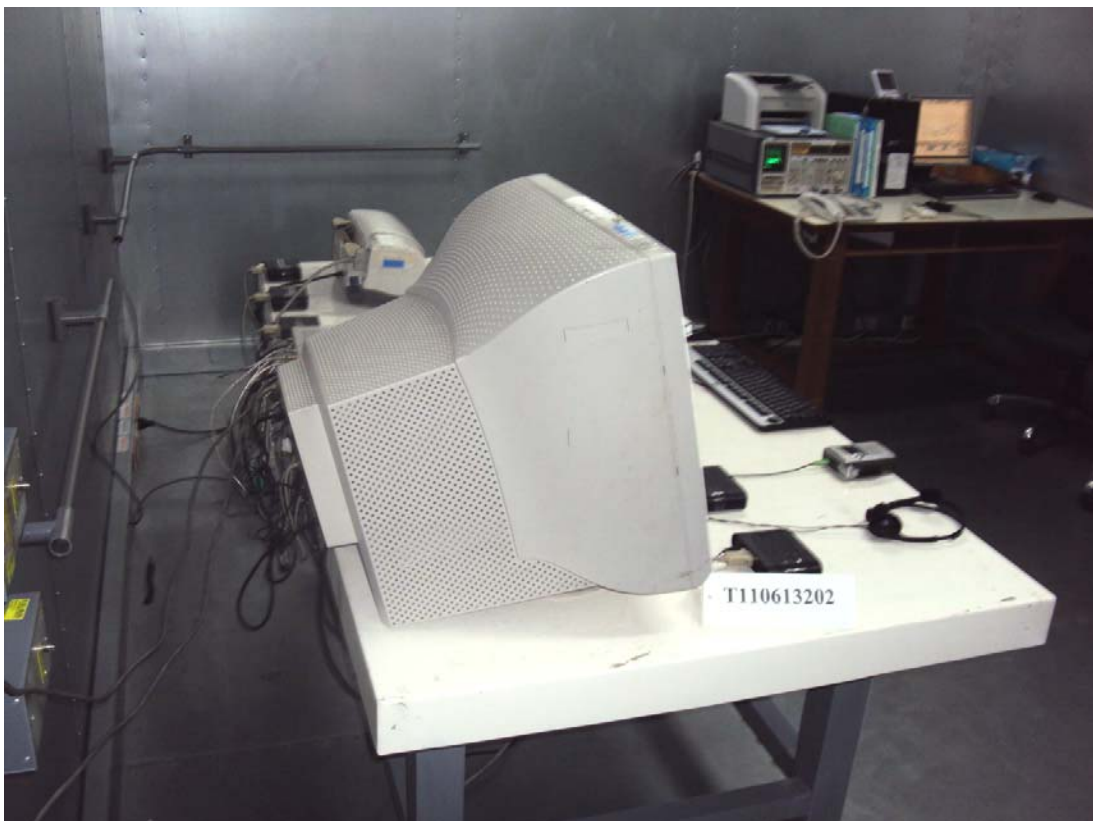
Radiated Emission Readings							
Frequency Range Investigated				Above 1GHz at 3m			
Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector (P/A)	Pol. (H/V)
1500.000	59.91	-7.69	52.22	80.00	-27.78	P	V
2385.000	57.41	-3.25	54.16	80.00	-25.84	P	V
2660.000	52.78	-2.09	50.69	80.00	-29.31	P	V
3020.000	46.21	-0.39	45.82	80.00	-34.18	P	V
3395.000	45.92	0.90	46.82	80.00	-33.18	P	V
5145.000	43.65	5.25	48.90	80.00	-31.10	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)
1495.000	60.64	-7.72	52.92	80.00	-27.08	P	H
2375.000	53.45	-3.29	50.16	80.00	-29.84	P	H
2435.000	55.21	-3.08	52.13	80.00	-27.87	P	H
3025.000	50.96	-0.37	50.59	80.00	-29.41	P	H
3790.000	44.89	2.18	47.07	80.00	-32.93	P	H
4805.000	49.36	4.30	53.66	80.00	-26.34	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





RADIATED EMISSION TEST (Open Chassis)

