Technical Compliance Statement

For the following information Ref. File No.: C1M1208069

Product	:	Motherboard
Model Number	:	(1)IMBM-H61A (2)LMH61A (3)xxxxIMBM-H61Axxxxxxxxxxxx (4)LMH61Axxxxxxx
Brand	:	(1)AAEON (2)ASUS
Applicant	:	AAEON Technology Inc.
Manufacturer #1	:	AAEON Technology Inc.
Manufacturer #2	:	INFO-TEK ELECTRONICS(SUZHOU)CO., LTD
Manufacturer #3	:	Cal-Comp Electronics and Communications (Suzhou) Co., Ltd
Manufacturer #4	:	Danriver Technology (Guangzhou) Inc.
Manufacturer #5	:	BOATEK ELECTRONIC CO., LTD.
Manufacturer #6	:	Global Brands Manufacture (Dongguan) Ltd
Standards	:	FCC CFR 47 Part 15 Subpart B/Oct. 2011 and CISPR 22/1997 and ICES-003 (Class B Limit)

We hereby certify that the above product has been tested by us and complied with the FCC official limits. These products might be marketed at the US accordance to FCC Rule based on the standard CFR 47 Part 2 and Part 15 Class B Equipment Regulations. The test was performed accordance to the procedures from ANSI C63.4-2003. The test data & results are issued on the test report no. EM-F1010685.

Signature Leon Liu

Leon Liu/Deputy General Manager
Date: Aug. 17, 2012

Test Laboratory:
AUDIX Technology Corporation, EMC Department
NVLAP Lab. Code: 200077-0
FCC OET Designation: TW1004
Web Site: www.audixtech.com

NVLAP Lab Code 200077-0

The statement is based on a single evaluation of one sample of the above-mentioned products. It does not imply an assessment of the whole production and does not permit the use of the test lab logo.

TEST REPORT FOR FCC DoC
for
AAEON Technology Inc.
Motherboard
Model No.: (1)IMBM-H61A (2)LMH61A
(3)xxxxIMBM-H61Axxxxxxxxxxxx (4)LMH61Axxxxxxx
Brand: (1)AAEON (2)ASUS

Prepared for : AAEON Technology Inc.
5F, No.135, Lane 235, Pao Chiao Rd, Hsin-Tien Dist.,
New Taipei City, Taiwan

Prepared By : AUDIX Technology Corporation
EMC Department
No. 53-11, Dingfu, Linkou Dist.,
New Taipei City 244, Taiwan

Tel : (02) 2609-9301, 2609-2133
Fax : (02) 2609-9303

File Number	:	C1M1208069 (ACW Ref. No. ACWE-G1207026)
Report Number	:	EM-F1010685
Date of Test	:	Aug. 15 ~ 17, 2012
Date of Report	:	Aug. 17, 2012

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TEST REPORT FOR FCC COMPLIANCE DECLARATION

Applicant	:	AAEON Technology Inc.
Manufacturer #1	:	AAEON Technology Inc.
Manufacturer #2	:	INFO-TEK ELECTRONICS(SUZHOU)CO., LTD
Manufacturer #3	:	Cal-Comp Electronics and Communications (Suzhou) Co., Ltd
Manufacturer #4	:	Danriver Technology (Guangzhou) Inc.
Manufacturer #5	:	BOATEK ELECTRONIC CO., LTD.
Manufacturer #6	:	Global Brands Manufacture (Dongguan) Ltd
EUT Description	:	Motherboard
(A) Model No.	:	(1)IMBM-H61A (2)LMH61A (3)xxxxIMBM-H61Axxxxxxxxxxxx (4)LMH61Axxxxxxx
(B) Serial No.	:	N/A
(C) Brand	:	(1)AAEON (2)ASUS
(D) Power Supply	:	Power by PC System
(E) Test Voltage	:	AC 120V/60Hz (via PC System)

Measurement Standard Used:
FCC CFR 47 Part 15 Subpart B/Oct. 2011 and CISPR 22/1997
ANSI C63.4-2003
ICES-003 Issue 4 Feb. 2004

(NOTE：These results are deemed satisfactory evidence of compliance with ICES-003 of the Canadian Interference-Causing Equipment Regulations.)

The device described above was tested by AUDIX Technology Corporation to determine the maximum emission levels emanating from the device. The maximum emission levels were compared to the FCC Part 15 Subpart B with the provisions of sections 15.107(a) and 15.109(a)(g) Class B limits both conducted and radiated emission.

The measurement results are contained in this test report and AUDIX Technology Corporation is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliance with the FCC official limits.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of AUDIX Technology Corporation.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

Date of Test : Aug. 15 ~ 17, 2012 Date of Report : Aug. 17, 2012

Producer : _____
(Nita Lee/Administrator)

Signatory : _____
(Leon Liu/Deputy General Manager)

Name of the Representative of the Responsible Party : _____

Signature : _____

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Description	:	Motherboard
Model Number	:	(1)IMBM-H61A (2)LMH61A (3)xxxxIMBM-H61Axxxxxxxxxxxx (4)LMH61Axxxxxxx The Model: (1)~(4) are identical. "x" can be 0-9, A-Z, a-z, - or blank for marketing purpose. The Model: IMBM-H61A is tested in this report.
Brand	:	(1)AAEON (2)ASUS
Applicant	:	AAEON Technology Inc. 5F, No.135, Lane 235, Pao Chiao Rd, Hsin-Tien Dist., New Taipei City, Taiwan
Manufacturer #1	:	AAEON Technology Inc. 5F, No.135, Lane 235, Pao Chiao Rd, Hsin-Tien Dist., New Taipei City, Taiwan
Manufacturer #2	:	INFO-TEK ELECTRONICS(SUZHOU)CO.,LTD 183 Jinfeng Rd., Suzhou, Jiangsu, PRC
Manufacturer #3	:	Cal-Comp Electronics and Communications (Suzhou) Co., Ltd Wujiang Export Processing Zone, No 688, Pangjin Road, Wujiang Economic Development Zone, Jiangsu Province, China.
Manufacturer #4	:	Danriver Technology (Guangzhou) Inc. No. 16 Baoying Dadao, Guangzhou Free Trade Zone. People's Republic of China
Manufacturer #5	:	BOATEK ELECTRONIC CO., LTD. No. 124 bubugao road, wu sha kong bavillage, chang an, dong guan, guang dong province
Manufacturer #6	:	Global Brands Manufacture (Dongguan) Ltd Yue Yuen Industrial Estate, Huang Jiang Town Dong Guan City, Guang Dong Province

Date of Receipt of Sample	:	Aug. 13, 2012
Date of Test	:	Aug. 15 ~ 17, 2012

***EUT Description ***

CPU	:	Intel Confidential QBQ1 ES 2.46GHz Socket 1155
Chipset	:	South Bridge: Intel H61(B3)
Memory Size	:	Min: 512 MB, Max: 16 GB
Row (CS) number	:	Rows: 4 Rows Max: 4 GB/Row
System Memory	:	DIMM_A1 DIMM_A2 DIMM_B1 DIMM_B2 Type DDR3-1066/1333/1600
Expansion Slots	:	Slots PCI: 1 PCIEX1: 1 PCIEX1_1 PCIEX16 slot PCIEX16 PCIEX16 (BLUE)
Graphics	:	Integrated Gfx in North bridge On board Gfx. Chipset name: Intel H61 Max. UMA Memory Size: 1024M MB
D-Sub Max. resolution	:	1920*1200@75Hz
DVI Max. resolution	:	1920*1200@60Hz
Audio	:	Azalia CODEC: 6 channels IC: ALC887-VD2-CG (Colay with ALC886) 3 x Audio Jack w/BTX Type (Mic-in, Line-out, Line-in) on Rear IO support Jack detection & ANTI POP Function
Network	:	Dual Lan Gigabit: RTL8111F-VB-CG*2 CIe Manageability WOL*(S3*.S4*.S5*) PXE* (must have) Support 2 GBE LAN Port
Storage	:	South Bridge: Intel H61 built-in Connectors SATA1 Color: Light Blue SATA2 Color: Light Blue SATA3 Color: Light Blue
USB	:	Standard USB2.0 Number of ports USB 2.0 Ports: 8 mid-board: 4 ports back panel: 4 ports
Highest Working Frequency	:	2.46GHz
Back I/O Ports	:	(1) USB 2.0 port*4 (2) RJ-45 port*2 (3) PS-2 port*2 (4) Audio port*3 (5) D-Sub port*1 (6) DVI port*1 (7) RS-232 port*2

Remark:

This EUT (Motherboard, within PC system) with the following test modes were pre-scanned. Finally, this report was selected the worst test mode to issue report.

The details of pre-scanned modes are as follows：

Mode	Operating of EUT	VGA Interface, Resolutions and Frequencies
1.	Full System	D-Sub, 1920*1200/75Hz
2.		DVI, 1920*1200/60Hz
3.		D-Sub + DVI, 1600*1200/60Hz
4.		D-Sub + DVI, 1280*1024/75Hz
5.		D-Sub + DVI, 640*480/60Hz

The worst test mode of finally reported are as follows：

Test Item	Operating of EUT	VGA Interface, Resolutions and Frequencies
CE	Full System	D-Sub + DVI, 1600*1200/60Hz
RE		D-Sub + DVI, 1600*1200/60Hz

1.2. Tested Supporting System Details

1.2.1. PC SYSTEM

PC Case	:	J POWER
Motherboard (EUT)	:	**(1)AAEON (2)ASUS, M/N: IMBM-H61A**
CPU	:	Intel Confidential QBQ1 ES 2.46GHz Socket 1155
Hard Disk Drive (160G)	:	WD, M/N WD1600ADJS-08WAA0
Switching Power Supply	:	Seventeam, M/N ST-300WAP FCC by DoC
Memory Card	:	Kingston, DDR3, Size: 2GB
Super Multi DVD Rewriter	:	LG, M/N GH22LS30 FCC By DoC
VGA Card	:	GIGABYTE, M/N GV-NX85T256HP FCC By DoC
Power Cord	:	Non-Shielded, Detachable, 1.8m

1.2.2. DELL 24" LCD MONITOR #1 (LINK TO EUT)

Model Number	:	2408WFP
Serial Number	:	GN-OG293H-74261-874-214S-A00
FCC ID	:	By DoC
BSMI ID	:	R43002
Brand	:	DELL
D-Sub Cable	:	Shielded, Detachable, 1.8m Bonded two ferrite cores
Power Cord	:	Non-Shielded, Detachable, 1.8m

1.2.3. DELL 24" LCD MONITOR #2 (LINK TO EUT)

Model Number	:	2408WFP
Serial Number	:	GN-OG293H-74261-874-210S-A00
FCC ID	:	By DoC
BSMI ID	:	R43002
Brand	:	DELL
DVI Cable	:	Shielded, Detachable, 1.8m Bonded two ferrite cores
Power Cord	:	Non-Shielded, Detachable, 1.8m

1.2.4. USB KEYBOARD (LINK TO EUT)

Model Number	:	SK-8175
Serial Number	:	MY-0W217F-71619-058-1698-A01
FCC ID	:	By DoC
BSMI ID	:	T3A002
Brand	:	DELL
USB→PS2 Cable	:	Shielded, Undetachable, 2.0m

1.2.5. USB MOUSE (LINK TO EUT)

Model Number	:	MOC5UO
Serial Number	:	HOV055BG
FCC ID	:	By DoC
BSMI ID	:	R41108
Brand	:	DELL
USB→PS2 Cable	:	Non-Shielded, Undetachable, 1.8m

1.2.6. LASER PRINTER (LINK TO EUT)

Model Number	:	ML-1630
Serial Number	:	4561B1CP600023X
FCC ID	:	A3LML1630
BSMI ID	:	R33475
Brand	:	SAMSUNG
USB Cable	:	Shielded, Detachable, 1.8m
Power Cord	:	Non-Shielded, Detachable, 1.8m

1.2.7. USB2.0 STORAGE MEDIA #1 (LINK TO EUT)

Model Number	:	U172P
Serial Number	:	95110870047037
FCC ID	:	By DoC
BSMI ID	:	D33311
Manufacturer	:	pqi
USB Data Cable	:	Shielded, Detachable, 1.5m

1.2.8. USB2.0 STORAGE MEDIA #2 (LINK TO EUT)

Model Number	:	U172P
Serial Number	:	95110870047035
FCC ID	:	By DoC
BSMI ID	:	D33311
Manufacturer	:	pqi
USB Data Cable	:	Shielded, Detachable, 1.5m

1.2.9. USB 2.0 STORAGE MEDIA #3 (LINK TO EUT)

Model Number	:	U172P
Serial Number	:	95110870047016
FCC ID	:	By DoC
BSMI ID	:	D33311
Manufacturer	:	pqi
USB Cable	:	Shielded, Detachable, 1.5m

1.2.10. USB2.0 STORAGE MEDIA #4

Model Number	:	U172P
Serial Number	:	95110880023210
FCC ID	:	By DoC
BSMI ID	:	D33311
Manufacturer	:	pqi
USB Data Cable	:	Shielded, Detachable, 1.5m

1.2.11. USB2.0 STORAGE MEDIA #5

Model Number	:	U172P
Serial Number	:	95110880023233
FCC ID	:	By DoC
BSMI ID	:	D33311
Manufacturer	:	pqi
USB Data Cable	:	Shielded, Detachable, 1.5m

1.2.12. WALKMAN (LINK TO EUT)

Model Number	:	RQ-P35LT-K
Serial Number	:	HA08697
Manufacturer	:	Panasonic
Data Cable	:	Non-Shielded, Detachable, 1.8m

1.2.13. EARPHONE WITH MIC. & IN-LINE VOLUME CONTROL #1 (LINK TO EUT)

Model Number	:	HS10101
Serial Number	:	N/A
BSMI ID	:	R34896
FCC ID	:	By DoC
Brand	:	UIO
Data Cable	:	Non-Shielded, Detachable, 1.5m

1.2.14. EARPHONE WITH MIC. & IN-LINE VOLUME CONTROL #2

Model Number	:	HS10101
Serial Number	:	N/A
BSMI ID	:	R34896
FCC ID	:	By DoC
Brand	:	UIO
Data Cable	:	Non-Shielded, Detachable, 1.5m

1.2.15. MODEM #1 (LINK TO EUT)

Model Number	:	DM-1414
Serial Number	:	980034393
FCC ID	:	IFAXDM1414
Manufacturer	:	Accex
DVI Cable	:	Shielded, Detachable, 1.2m
Power Adapter	:	Amigo, M/N AM-91000A Non-Shielded, Undetachable, 1.8m

1.2.16. MODEM #2 (LINK TO EUT)

Model Number	:	DM-1414
Serial Number	:	980034395
FCC ID	:	IFAXDM1414
Manufacturer	:	Accex
DVI Cable	:	Shielded, Detachable, 1.2m
Power Adapter	:	Amigo, M/N AM-91000A Non-Shielded, Undetachable, 1.8m

【Partner System】

1.2.17. PARTNER PC SYSTEM

Model Number	:	D220 MT
Serial Number	:	SGH40709CN
FCC ID	:	By DoC
BSMI ID	:	R33001
Brand	:	HP
Power Cord	:	Non-Shielded, Detachable, 1.8m

1.2.18. PARTNER 15" LCD MONITOR

Model Number	:	D5063
Serial Number	:	CN206A6013
FCC ID	:	ARSLM562H
BSMI ID	:	R33037
Manufacturer	:	Top Victory (Brand: HP)
Data Cable (D-Sub)	:	Shielded, Detachable, 1.8m Bonded two ferrite cores
AC Adapter	:	Delta, M/N ADP-40TB BSMI ID 3892D142 Cord: Shielded, Undetachable, 1.8m Bonded a ferrite core
Power Cord	:	Non-Shielded, Detachable, 1.8m

1.2.19. PARTNER KEYBOARD

Model Number	:	AS-KBA000
Serial Number	:	C0602118403
FCC ID	:	By DoC
BSMI ID	:	T3A002
Manufacturer	:	Siltek (Brand: ASUS)
Data Cable	:	Non-Shielded, Undetachable, 1.8m

1.2.20. PARTNER USB MOUSE

Model Number	:	M-UV69a
Serial Number	:	HCB60403038
FCC ID	:	By DoC
BSMI ID	:	T4A126
Manufacturer	:	LOGITECH (Brand: ASUS)
Data Cable	:	Shielded, Undetachable, 1.8m

1.2.21. WIRELESS LAN AP (LINK TO EUT)

Model Number	:	RTW030
Serial Number	:	122B1077087
FCC ID	:	H8NRTW030
Manufacturer	:	ASKEY
LAN Cable -to PC System	:	Non-Shielded, Detachable, 10m
LAN Cable -to Partner PC System	:	Non-Shielded, Detachable, 10m
AC Adapter	:	M/N AD-121ANDT, Input Cord: Non-Shielded, Detachable, 3.0m

1.3. Description of Test Facility

Name of Firm	:	**AUDIX Technology Corporation** **EMC Department** No. 53-11, Dingfu, Linkou Dist., New Taipei City 244, Taiwan
Test Site (C3/R8)	:	**No. 3 Shielded Room** No. 67-4, Dingfu, Linkou Dist., New Taipei City 244, Taiwan **No. 8 Open Area Test Site** No. 67-4, Dingfu, Linkou Dist., New Taipei City 244, Taiwan Federal Communication Commission Registration Number: 220521 Renewal on September 14, 2010
NVLAP Lab. Code	:	200077-0
TAF Accreditation No	:	1724

1.4. Measurement Uncertainty

Test Item	Frequency Range	Uncertainty (dB)
Conduction Test	150kHz~30MHz	±1.73dB
Radiation Test (Distance: 10m)	30MHz~300MHz	±2.99dB
	300MHz~1000MHz	±2.73dB
Radiation Test (Distance: 3m)	1GHz~18GHz	± 3.73dB

Remark **:** Uncertainty = $ku_c(y)$

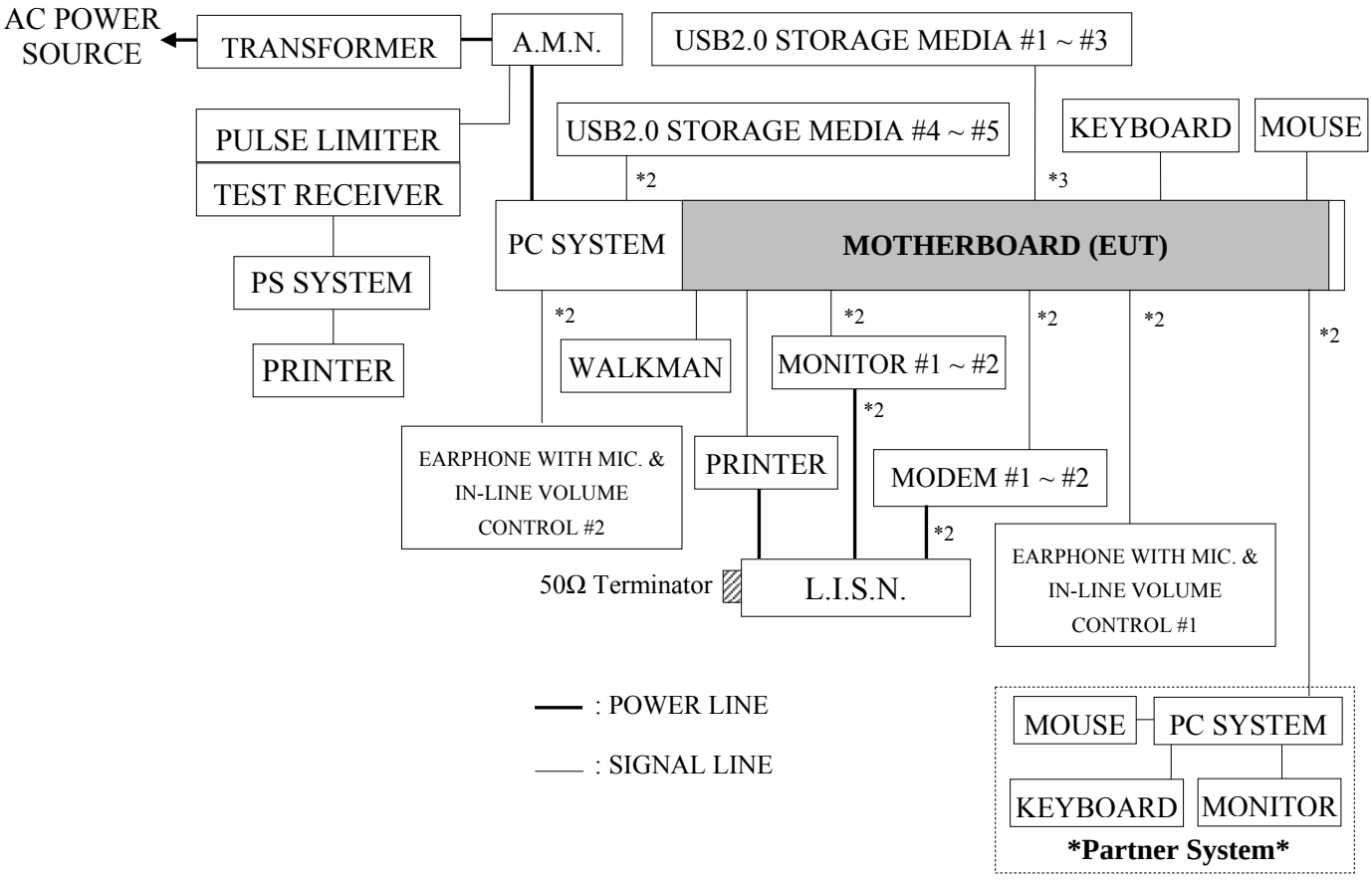
2. POWERLINE CONDUCTED EMISSION MEASUREMENT

2.1. Test Equipment

The following test equipment was used during the powerline conducted emission measurement：(No. 3 Shielded Room)

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Test Receiver	R&S	ESCS30	100337	Apr. 09, 12’	Apr. 08, 13’
2.	A.M.N.	Kyoritsu	KNW-244C	8-1373-5	Mar. 27, 12’	Mar. 26, 13’
3.	L.I.S.N.	Kyoritsu	KNW-407	8-1370-10	Feb. 01, 12’	Jan. 31, 13’
4.	Pulse Limiter	R&S	ESH3-Z2	100041	Feb. 01, 12’	Jan. 31, 13’

2.2.Block Diagram of Test Setup



2.3. Powerline Conducted Emission Limit (15.107(a), Class B)

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level	Average Level
150kHz ~ 500kHz	66 ~ 56 dBμV	56 ~ 46 dBμV
500kHz ~ 5MHz	56 dBμV	46 dBμV
5MHz ~ 30MHz	60 dBμV	50 dBμV

Remark：1. If the average limit is met when using a Quasi-Peak detector, the EUT shall be deemed to meet both limits and measurement with the average detector is unnecessary.
2. The lower limit applies at the band edges.

2.4. Operating Condition of EUT

PC system (EUT inside) Exercise Program and Condition	
Operating System	Windows XP
Test Program	Burnin Test
Graphic Controller	Both two LCD monitors display scrolling “H” (Arial 11) pattern with respective resolution at the same time.
LAN Controller	Data transfer to host PC
Audio Controller	Play 1kHz audio signal
Serial Ports	1. Read/Write operation to USB2.0 storage media. 2. Sent “H” (Arial 11) to printer
Interface Controller	Read/Write operation to hard disk
The other peripheral devices were driven and operated in turn during all testing.	

2.5. Test Procedure

The EUT (within PC system) was placed on the table which was above the ground by 80cm and PC System’s power cord was connected to the power mains through an Artificial Mains Network (A.M.N.). The other peripheral devices power cords were connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provided a 50 ohm coupling impedance for the measuring equipment. (Please refer to the block diagram of the test setup and photographs.)
Both sides of A.C. line were checked for maximum conducted interference. In order to find the maximum emission, the relative positions simulators of the interface cables were manipulated according to FCC ANSI C63.4-2003 during conducted measurement.

The bandwidth of the R&S Test Receiver ESCS30 was set at 9kHz.

The frequency range from 0.15MHz to 30MHz was pre-scanned with a peak detector.

All the final readings from Test Receiver were measured with the Quasi-Peak detector and Average detector. (Remark: If the Average limit is met when using a Quasi-Peak detector, the Average detector is unnecessary)

2.6. Powerline Conducted Emission Measurement Results

PASSED. (All the emissions not reported below are too low against the prescribed limits.)

The EUT (within PC system) with the following **worst test mode (D-Sub + DVI, 1600*1200/60Hz)** was performed during this section testing and to read Q.P. value, the test data are listed in next pages.

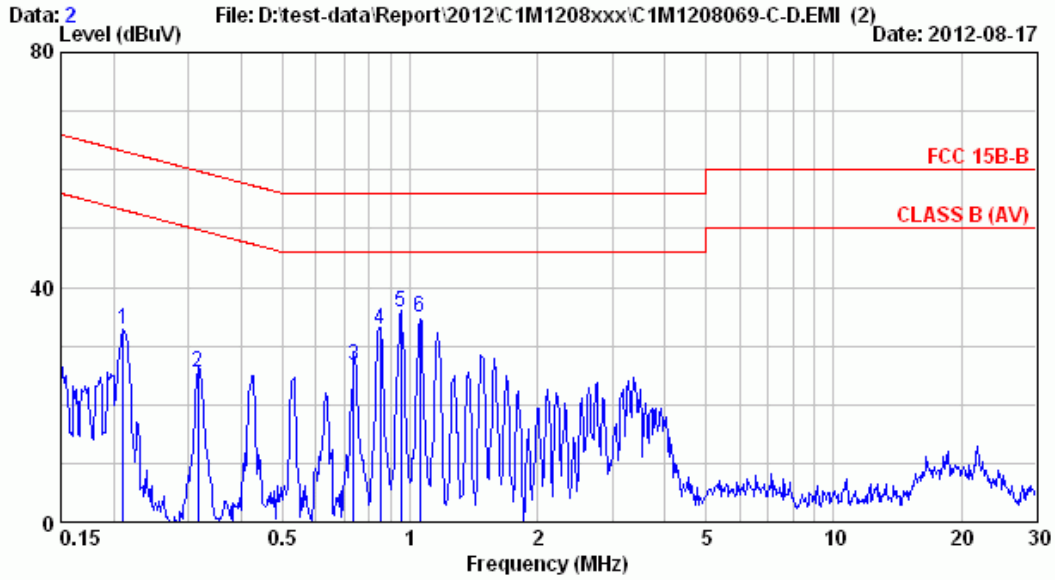
EUT：Motherboard M/N：IMBM-H61A

Test Date：Aug. 17, 2012 Temperature：25℃ Humidity：52%

The details are as follows：

Mode	Operating of EUT	VGA Interface, \ Resolutions and Frequencies	Reference Test Data No.	
			Neutral	Line
1.	Full System	D-Sub + DVI, 1600*1200/60Hz	# 2	# 1

AUDIX Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email:ttemc@ttemc.com.tw



Site : No.3 Shielded Room Data : 2
Condition : KNW-244C Phase : NEUTRAL
Limit : FCC 15B-B
Env. / Ins. : 25*C / 52% ESCS 30 (337) Engineer: Edward
EUT : IMBM-M61A
Power Rating : 120Vac / 60Hz
Test Mode : Full System 1600*1200/60Hz (D-SUB+DVI)

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV)	Limits (dBµV)	Margin (dB)	Remark
1	0.211	0.10	0.20	32.39	32.69	63.18	30.49	QP
2	0.317	0.10	0.20	25.31	25.61	59.80	34.19	QP
3	0.735	0.10	0.20	26.43	26.73	56.00	29.27	QP
4	0.853	0.10	0.20	32.56	32.86	56.00	23.14	QP
5	0.953	0.10	0.20	35.36	35.66	56.00	20.34	QP
6	1.054	0.11	0.40	34.43	34.94	56.00	21.06	QP

Remarks: 1.Emission Level= LISN Factor + Cable Loss + Reading.
2.If the average limit is met when using a quasi-peak detector ,the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

AUDIX Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei County, Taiwan R.O.C. Post Code:24443
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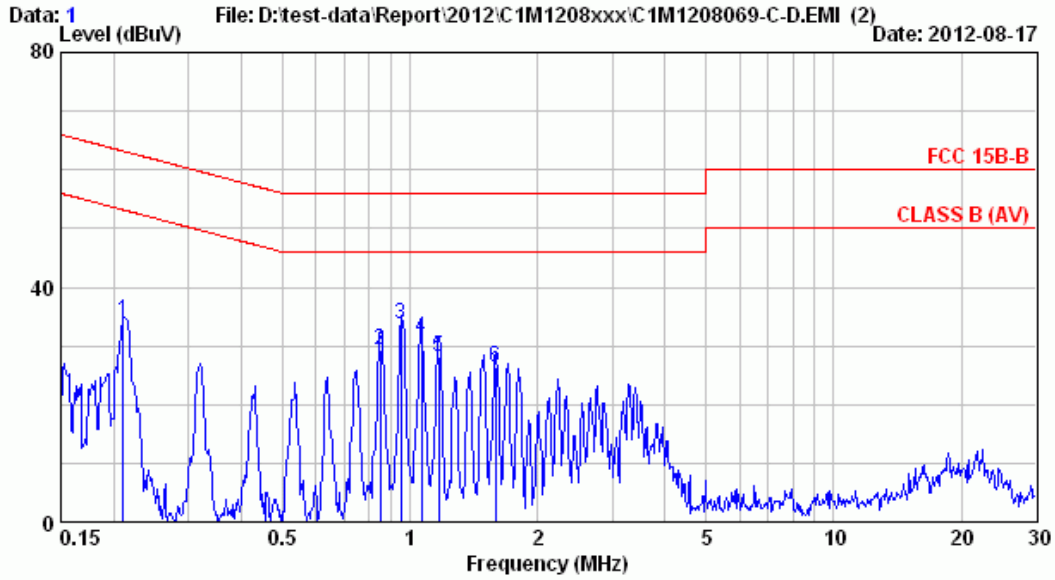


Site : No.3 Shielded Room Data : 1
Condition : KNW-244C Phase : LINE
Limit : FCC 15B-B
Env. / Ins. : 25*C / 52% ESCS 30 (337) Engineer: Edward
EUT : IMBM-M61A
Power Rating : 120Vac / 60Hz
Test Mode : Full System 1600*1200/60Hz (D-SUB+DVI)

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV)	Limits (dBµV)	Margin (dB)	Remark
1	0.211	0.10	0.20	33.98	34.28	63.18	28.90	QP
2	0.853	0.10	0.20	29.11	29.41	56.00	26.59	QP
3	0.953	0.10	0.20	33.41	33.71	56.00	22.29	QP
4	1.065	0.10	0.40	30.86	31.36	56.00	24.64	QP
5	1.172	0.10	0.40	27.55	28.05	56.00	27.95	QP
6	1.593	0.10	0.40	25.94	26.44	56.00	29.56	QP

Remarks: 1.Emission Level= LISN Factor + Cable Loss + Reading.
2.If the average limit is met when using a quasi-peak detector ,the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

3. RADIATED EMISSION MEASUREMENT

3.1. Test Equipment

The following test equipment was used during the radiated emission measurement：

3.1.1. For 30MHz-1000MHz Frequency (At No. 8 Open Area Test Site)

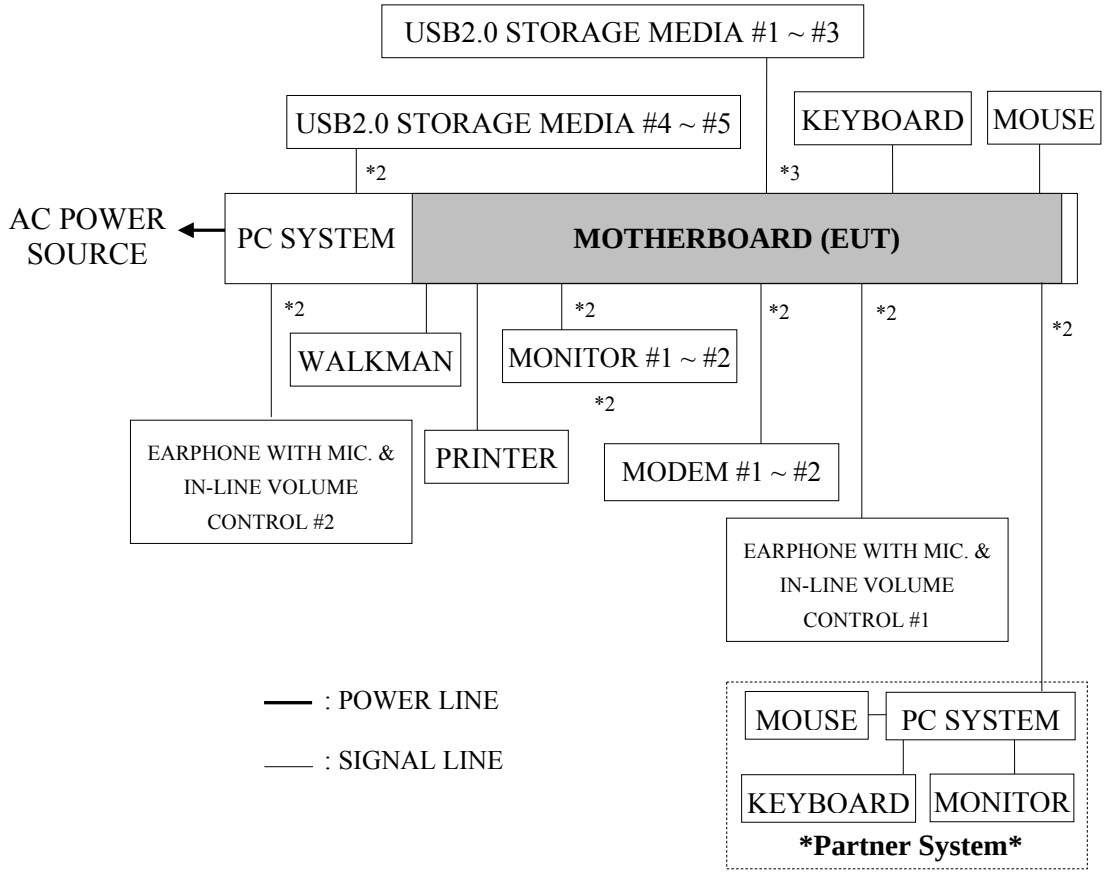
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	E7405A	MY42000134	Aug. 25, 11’	Aug. 24, 12’
2.	Test Receiver	R & S	ESCI7	100746	Jan. 31, 12’	Jan. 30, 13’
3.	Amplifier	HP	8447D	2944A06891	NCR	NCR
4.	Bilog Antenna	Schaffner	CBL6112B	2735	Mar. 03, 12’	Mar. 02, 13’

3.1.2. For 1GHz-18GHz Frequency (At No. 8 Open Area Test Site)

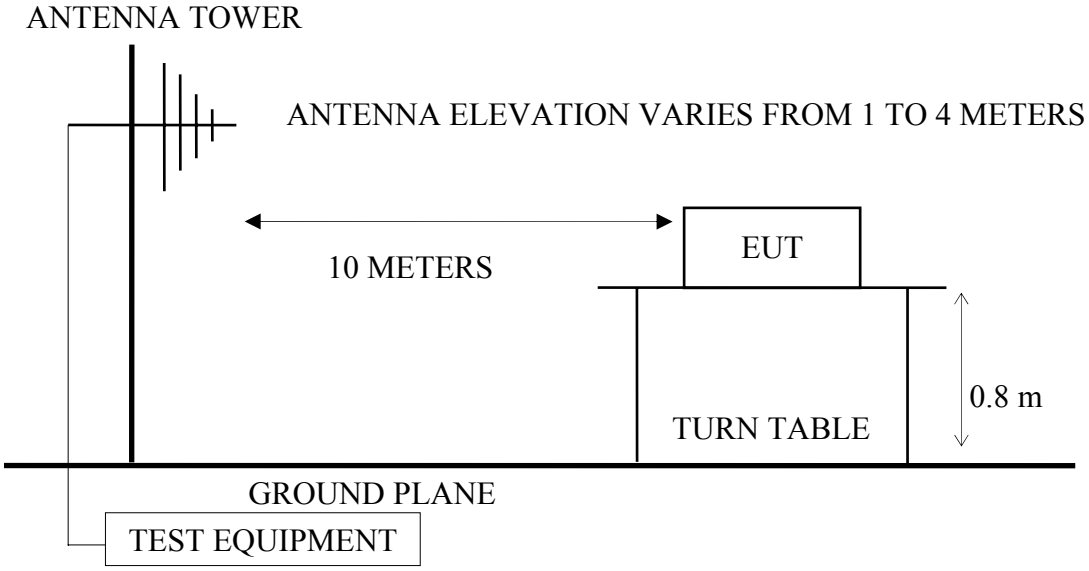
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	E7405A	MY42000134	Aug. 25, 11’	Aug. 24, 12’
2.	Amplifier	Agilent	8449B	3008A02596	Jan. 09, 12’	Jan. 08, 13’
3.	Horn Antenna	EMCO	3115	9609-4927	Jul. 05, 12’	Jul. 04, 13’

3.2. Block Diagram of Test Setup

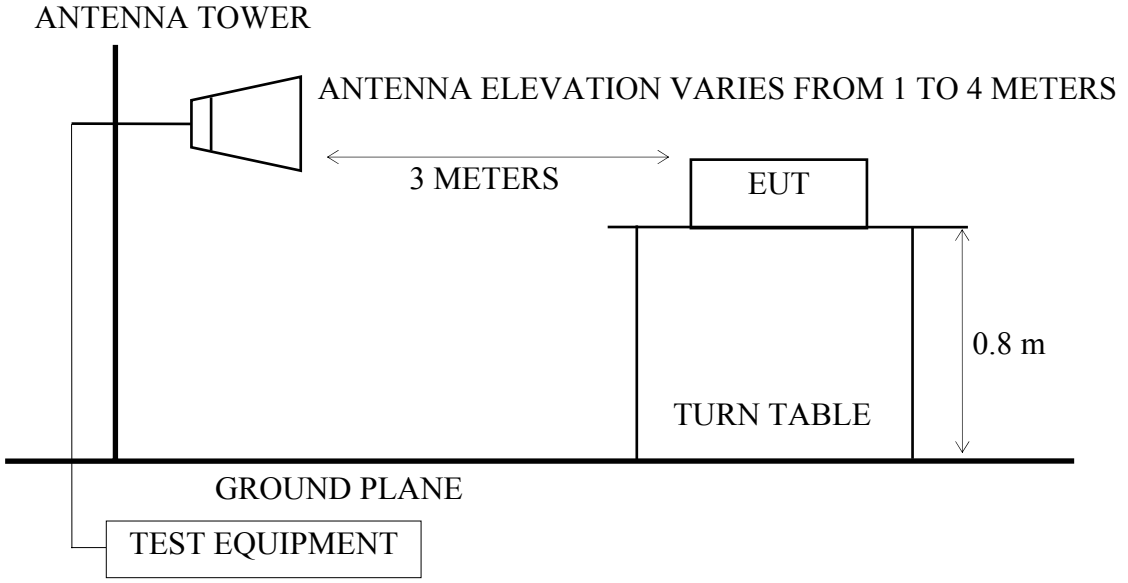
3.2.1. Block Diagram of connection between EUT and simulators



3.2.2. Open Area Test Site Setup Diagram (10m) for 30-1000MHz



3.2.3. Open Area Test Site (3m) Setup Diagram for above 1GHz



3.3. Radiation Emission Limit (§15.109(a)(g)/CISPR 22, Class B)

All emanations from a class B computing devices or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified below:

FREQUENCY (MHz)	DISTANCE (Meters)	FIELD STRENGTHS LIMITS (dBμV/m)
30 ~ 230	10	30
230 ~ 1000	10	37
Above 1000	3	74.0 (Peak)
Above 1000	3	54.0 (Average)

Note： (1) The tighter limit applies at the edge between two frequency bands.

(2) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the E.U.T.

(3) The system under test shall not exceed the radiated emission limits specified in Section 15.109 of this part by more than 6 dB.

3.4. Operating Condition of EUT

Same as conducted measurement which is listed in 2.4., except the test set up replaced by section 3.2.

3.5. Test Procedure

3.5.1. For Frequency Range was 30MHz-1000MHz which measurement distance was 10m at Open Area Test Site:

The EUT and its simulators were placed on a turn table which was 0.8 meter above ground. The turn table rotated 360 degrees to determine the position of the maximum emission level. EUT was set to 10 meters away from the receiving antenna which was mounted on an antenna tower. The antenna could be moved up and down between 1 meter and 4 meters to find out the aximum emission level. Broadband antennas were used as receiving antenna. Both horizontal and vertical polarization of the antenna was set on measurement. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.4-2003 on radiated measurement.

The bandwidth of the R&S Test Receiver ESCI7 was set at 120kHz.

The frequency range from 30MHz to 1000MHz was pre-scanned with Peak detector and all the final readings of measurement were with Quasi-Peak detector.

3.5.2. For Frequency Range was above 1GHz which measurement distance was 3m at Open Area Test Site:

The EUT and its simulators were placed on a turn table which was 0.8 meter above ground. The turn table rotated 360 degrees to determine the position of the maximum emission level. EUT was set to 3 meters away from the receiving antenna which was mounted on an antenna tower. The antenna could be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Both horizontal and vertical polarizations of the antenna were set on measurement, and both average and peak emission level were recorded form spectrum analyzer. In order to find the maximum emission level, all the interface cables were manipulated according to ANSI C63.4-2003 on radiated measurement.

The resolution bandwidth of Agilent Spectrum Analyzer E7405A was set at 1MHz.

The frequency range above 1GHz was checked and all final readings of measurement were with Peak and Average detector.

3.6. Radiated Emission Measurement Results

PASSED. (All the emissions not reported below are too low against the prescribed limits.)

For 30MHz-1000MHz frequency range：

The EUT (within PC system) with the following **worst test mode (D-Sub + DVI, 1600*1200/60Hz)** was performed during this section testing and the test data are listed in 3.6.1.

EUT：Motherboard M/N：IMBM-H61A

Test Date：Aug. 15, 2012 Temperature：30℃ Humidity：59%

The details are as follows：

Mode	Operating of EUT	VGA Interface, \ Resolutions and Frequencies	Reference Test Data No.	
			Horizontal	Vertical
※1.	**Full System**	**D-Sub + DVI, 1600*1200/60Hz (Open Case)**	**# 4**	**# 3**
2.		D-Sub + DVI 1600*1200/60Hz (Close Case)	# 2	# 1

※ The system under test shall not exceed the radiated emission limits specified in Section 15.109 of this part by more than 6 dB.

For frequency range above 1GHz：

The EUT (within PC system) with the following **worst test mode (D-Sub + DVI, 1600*1200/60Hz)** was performed during this section testing and the test data are listed in 3.6.2.

Test Date：Aug. 15, 2012 Temperature：30℃ Humidity：59%

The details are as follows：

Mode	Operating of EUT	VGA Interface, \ Resolutions and Frequencies	Reference Test Data No.			
			Horizontal		Vertical	
			Peak	Average	Peak	Average
※1.	Full System	D-Sub + DVI, 1600*1200/60Hz (Open Case)	# 10	# 12	# 9	# 11
2.		D-Sub + DVI 1600*1200/60Hz (Close Case)	# 6	# 8	# 5	# 7

※ The system under test shall not exceed the radiated emission limits specified in Section 15.109 of this part by more than 6 dB.

3.6.1. Radiated Emission Measurement Results at Open Area Test Site (Frequency Range 30-1000MHz)

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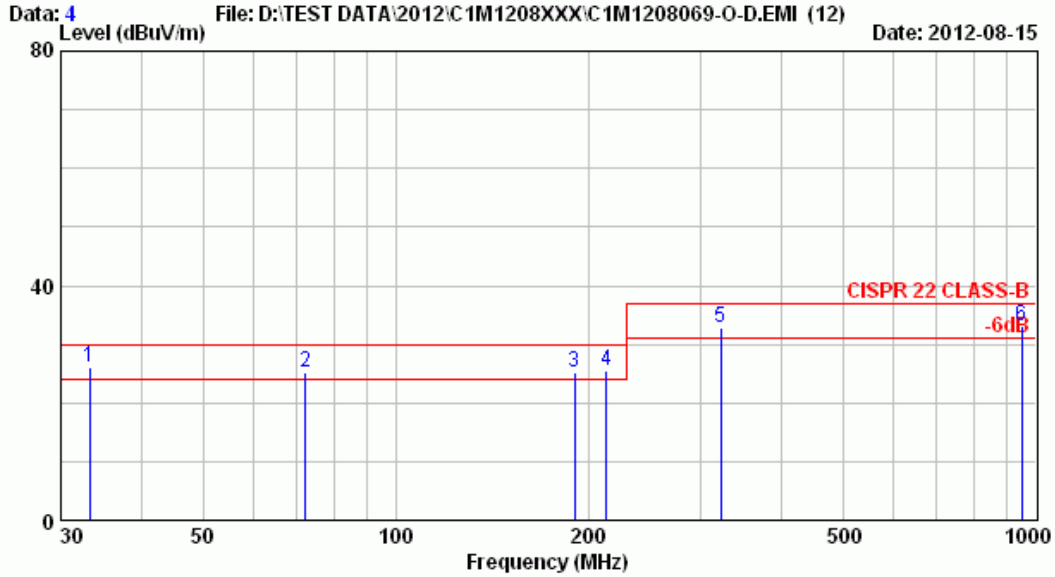


```
Site no.      : OATS NO.8                    Data no.   : 4
Dis. / Ant.   : 10m  CBL6112B(2735)          Ant. pol.  : HORIZONTAL
Limit         : CISPR 22 CLASS-B
Env. / Ins.   : 30*C/59% ESCI 7(746)         Engineer   : Edward
EUT  M/N      : IMBM-H61A
Power Rating  : 120Vac/60Hz
Test Mode     : Full System 1600*1200/60Hz D-SUB+DVI
                OPEN CASE
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	33.225	15.75	0.91	9.30	25.95	30.00	4.05	QP
2	72.415	7.33	1.34	16.55	25.23	30.00	4.78	QP
3	190.145	9.37	2.25	13.61	25.23	30.00	4.77	QP
4	213.205	9.81	2.36	13.19	25.35	30.00	4.65	QP
5	322.254	13.88	3.08	15.73	32.69	37.00	4.31	QP
6	951.625	20.89	5.74	6.55	33.18	37.00	3.82	QP *

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

3. The worst emission was detected at 951.625MHz with corrected signal level of 33.18dBµV/m (limit is 37.0dBµV/m) when the antenna was at horizontal polarization and was at 4m high and the turn table was at 315°.

4. 0°was the table front facing the antenna. Degree is calculated from 0°clockwise facing the antenna.

5. The EUT with open case was measured, the limit not exceed the radiated emission limits specified in Section 15.109 of this part by more than 6 dB.

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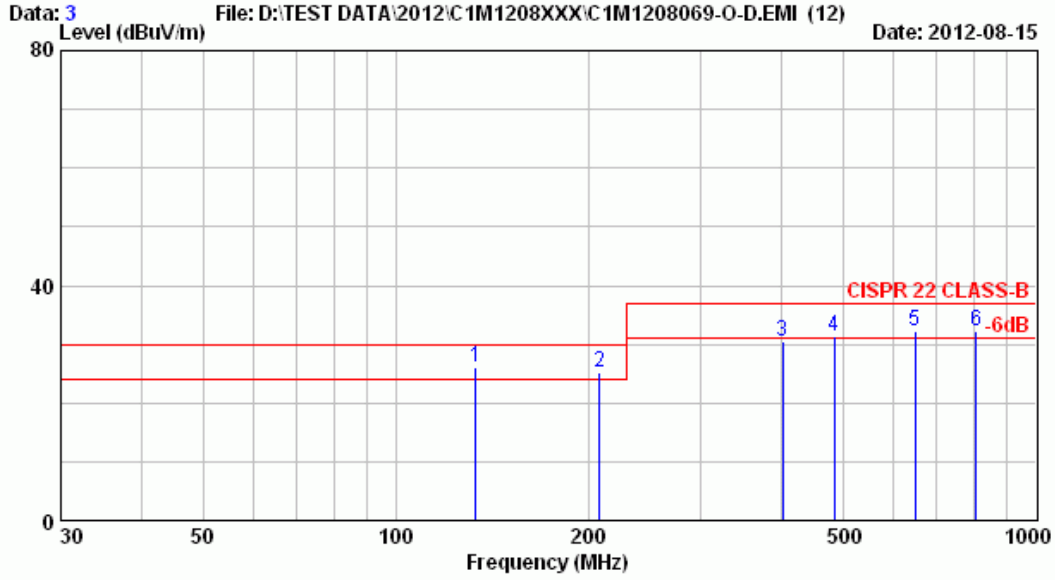

Site no. : OATS NO.8 Data no. : 3
Dis. / Ant. : 10m CBL6112B(2735) Ant. pol. : VERTICAL
Limit : CISPR 22 CLASS-B
Env. / Ins. : 30*C/59% ESCI 7(746) Engineer : Edward
EUT M/N : IMBM-H61A
Power Rating : 120Vac/60Hz
Test Mode : Full System 1600*1200/60Hz D-SUB+DVI
OPEN CASE

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark	
1	133.255	11.71	1.85	12.55	26.12	30.00	3.88	QP	*
2	208.366	9.85	2.32	13.08	25.26	30.00	4.74	QP	
3	402.363	16.16	3.47	10.88	30.52	37.00	6.48	QP	
4	484.051	17.60	3.85	10.00	31.45	37.00	5.55	QP	
5	647.117	19.48	4.51	8.34	32.33	37.00	4.67	QP	
6	806.156	20.49	5.17	6.55	32.20	37.00	4.80	QP	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

3. The worst emission was detected at 133.255MHz with corrected signal level of 26.12dBµV/m (limit is 30.0dBµV/m) when the antenna was at vertical polarization and was at 1m high and the turn table was at 160°.

4. 0°was the table front facing the antenna. Degree is calculated from 0°clockwise facing the antenna.

5. The EUT with open case was measured, the limit not exceed the radiated emission limits specified in Section 15.109 of this part by more than 6 dB.

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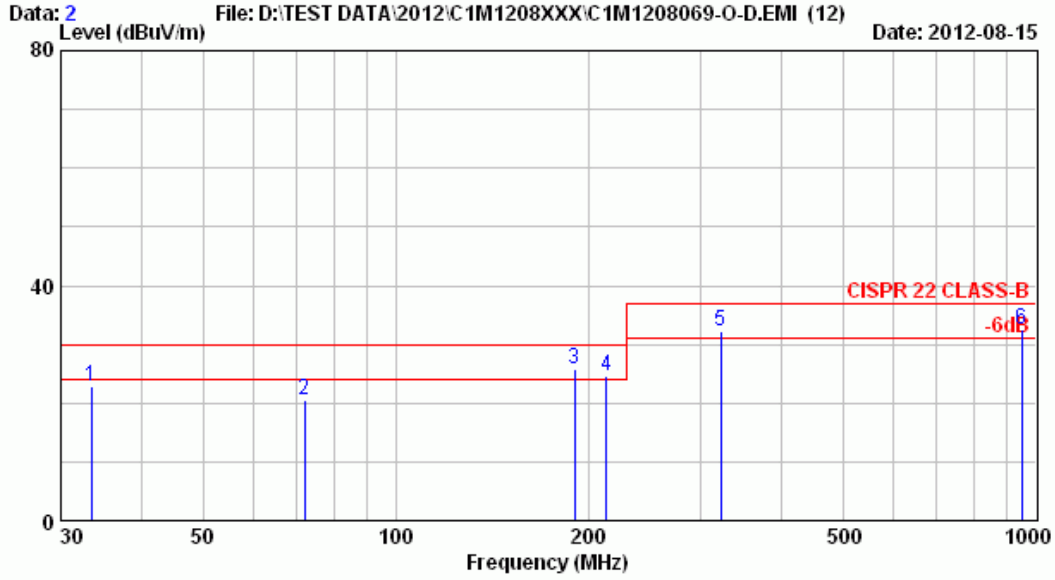

Site no. : OATS NO.8 Data no. : 2
Dis. / Ant. : 10m CBL6112B(2735) Ant. pol. : HORIZONTAL
Limit : CISPR 22 CLASS-B
Env. / Ins. : 30*C/59% ESCI 7(746) Engineer : Edward
EUT M/N : IMBM-H61A
Power Rating : 120Vac/60Hz
Test Mode : Full System 1600*1200/60Hz D-SUB+DVI

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	33.506	15.54	0.91	6.43	22.89	30.00	7.11	QP
2	72.154	7.30	1.34	11.85	20.49	30.00	9.51	QP
3	190.255	9.37	2.25	14.03	25.65	30.00	4.35	QP
4	213.477	9.80	2.36	12.33	24.50	30.00	5.50	QP
5	322.054	13.88	3.08	15.29	32.25	37.00	4.75	QP
6	951.255	20.89	5.74	6.03	32.66	37.00	4.34	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

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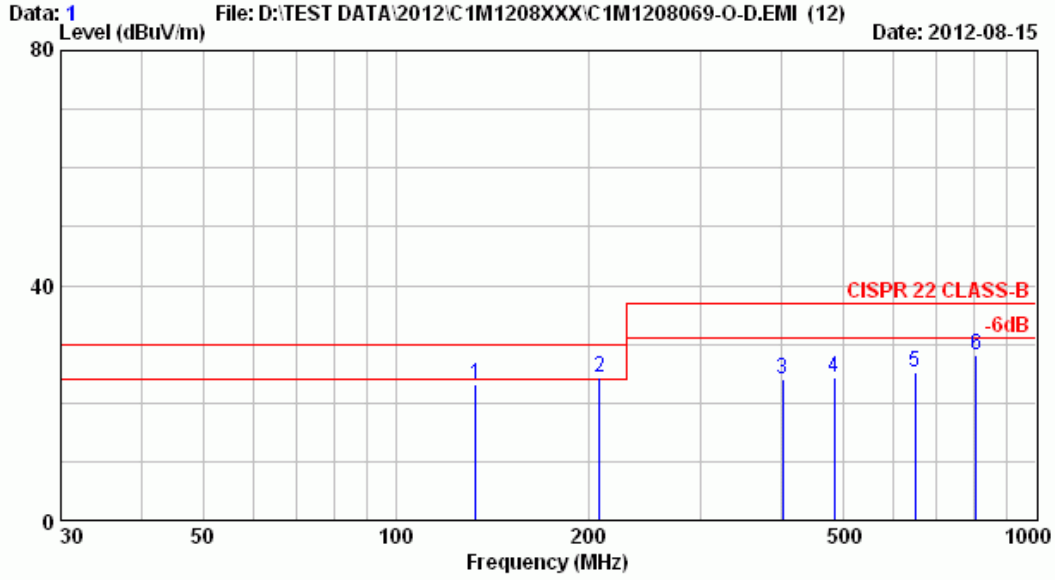

Site no. : OATS NO.8 Data no. : 1
Dis. / Ant. : 10m CBL6112B(2735) Ant. pol. : VERTICAL
Limit : CISPR 22 CLASS-B
Env. / Ins. : 30*C/59% ESCI 7(746) Engineer : Edward
EUT M/N : IMBM-H61A
Power Rating : 120Vac/60Hz
Test Mode : Full System 1600*1200/60Hz D-SUB+DVI

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	133.526	11.68	1.86	9.72	23.25	30.00	6.75	QP
2	208.157	9.86	2.32	12.27	24.45	30.00	5.55	QP
3	402.115	16.16	3.47	4.29	23.92	37.00	13.08	QP
4	484.922	17.64	3.86	2.91	24.42	37.00	12.58	QP
5	647.693	19.48	4.51	1.32	25.31	37.00	11.69	QP
6	806.211	20.49	5.17	2.59	28.25	37.00	8.75	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

3.6.2. Radiated Emission Measurement Results at Open Area Test Site (Frequency Range Above 1GHz)

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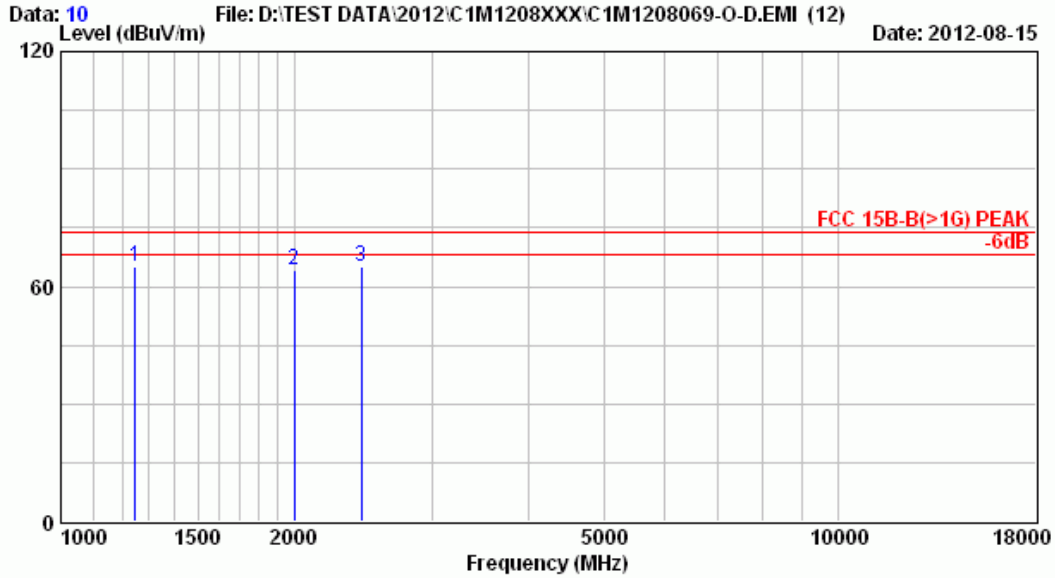

Site no. : OATS NO.8 Data no. : 10
Dis. / Ant. : 3m HORN 3115 Ant. pol. : HORIZONTAL
Limit : FCC 15B-B(>1G) PEAK
Env. / Ins. : 30*C/59% E7405A (134) Engineer : Edward
EUT : IMBM-H61A
Power Rating : 120Vac/60Hz
Test Mode : Full System 1600*1200/60Hz D-SUB+DVI
OPEN CASE

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	PREAMP GAIN (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	1245.240	24.93	4.49	35.26	70.96	65.12	74.00	8.88	Peak
2	1995.287	27.50	6.03	34.50	65.18	64.21	74.00	9.79	Peak
3	2435.257	28.28	6.74	34.75	64.66	64.92	74.00	9.08	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Preamp Gain + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

3. The EUT with open case was measured, the limit not exceed the radiated emission limits specified in Section 15.109 of this part by more than 6 dB.

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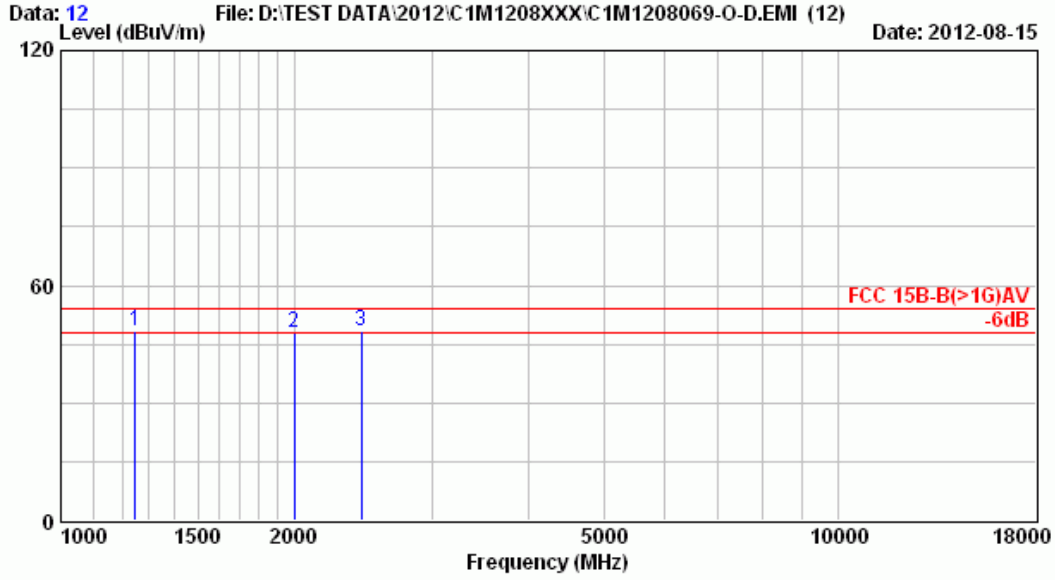

Site no. : OATS NO.8 Data no. : 12
Dis. / Ant. : 3m HORN 3115 Ant. pol. : HORIZONTAL
Limit : FCC 15B-B(>1G)AV
Env. / Ins. : 30*C/59% E7405A (134) Engineer : Edward
EUT : IMBM-H61A
Power Rating : 120Vac/60Hz
Test Mode : Full System 1600*1200/60Hz D-SUB+DVI
OPEN CASE

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	PREAMP GAIN (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	1245.545	24.93	4.49	35.26	54.10	48.26	54.00	5.74	Average
2	1995.419	27.50	6.03	34.50	48.94	47.97	54.00	6.03	Average
3	2435.656	28.28	6.74	34.75	48.07	48.33	54.00	5.67	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Preamp Gain + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

3. The EUT with open case was measured, the limit not exceed the radiated emission limits specified in Section 15.109 of this part by more than 6 dB.

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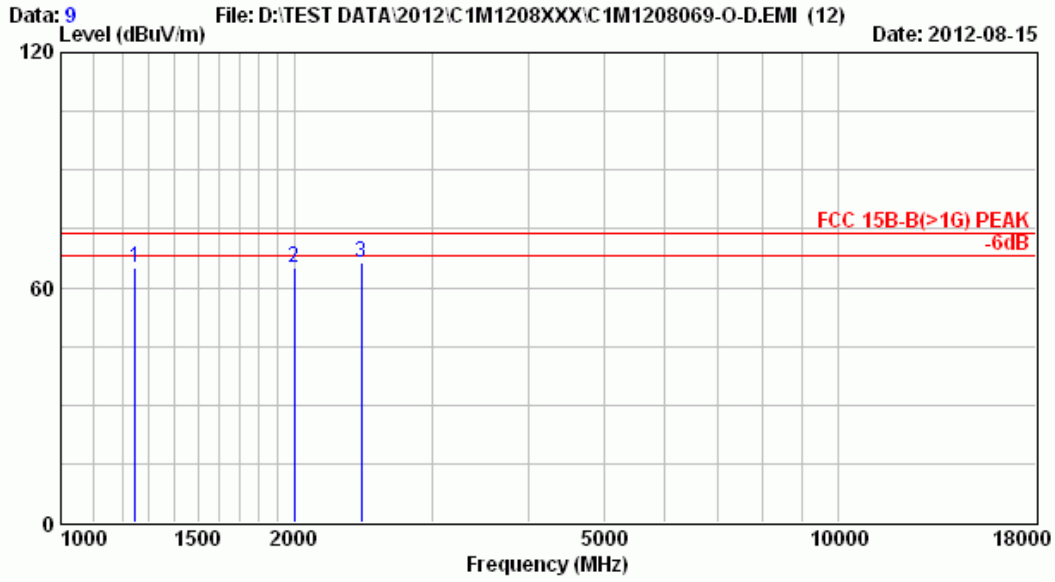

Site no. : OATS NO.8 Data no. : 9
Dis. / Ant. : 3m HORN 3115 Ant. pol. : VERTICAL
Limit : FCC 15B-B(>1G) PEAK
Env. / Ins. : 30*C/59% E7405A (134) Engineer : Edward
EUT : IMBM-H61A
Power Rating : 120Vac/60Hz
Test Mode : Full System 1600*1200/60Hz D-SUB+DVI
OPEN CASE

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	PREAMP GAIN (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	1245.205	24.93	4.49	35.26	70.90	65.06	74.00	8.94	Peak
2	1995.206	27.50	6.03	34.50	66.22	65.25	74.00	8.75	Peak
3	2435.125	28.28	6.74	34.75	66.24	66.51	74.00	7.49	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Preamp Gain + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

3. The EUT with open case was measured, the limit not exceed the radiated emission limits specified in Section 15.109 of this part by more than 6 dB.

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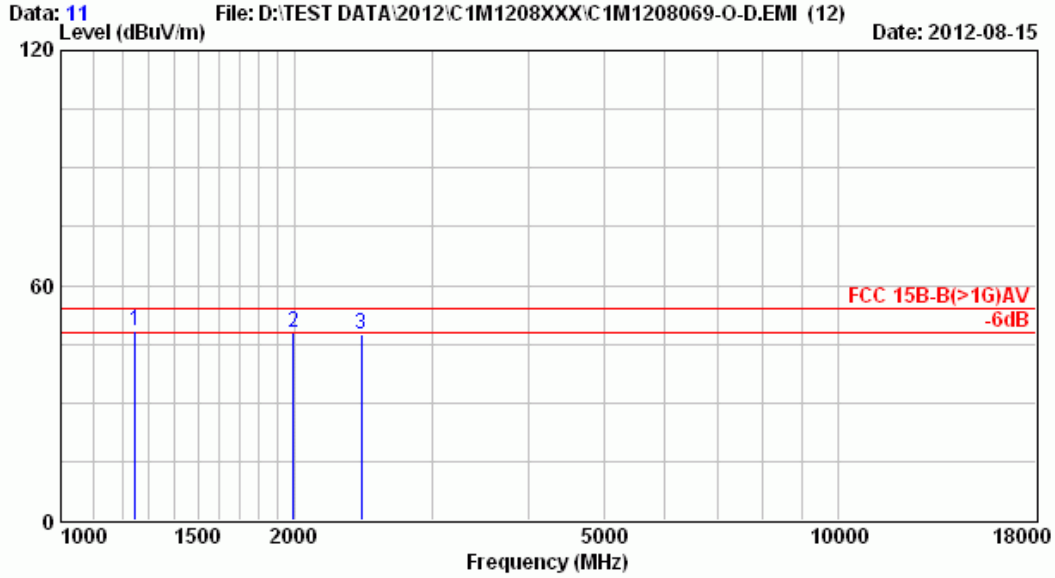

Site no. : OATS NO.8 Data no. : 11
Dis. / Ant. : 3m HORN 3115 Ant. pol. : VERTICAL
Limit : FCC 15B-B(>1G)AV
Env. / Ins. : 30*C/59% E7405A (134) Engineer : Edward
EUT : IMBM-H61A
Power Rating : 120Vac/60Hz
Test Mode : Full System 1600*1200/60Hz D-SUB+DVI
OPEN CASE

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	PREAMP GAIN (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	1245.245	24.93	4.49	35.26	54.40	48.56	54.00	5.44	Average
2	1995.153	27.50	6.03	34.50	48.67	47.69	54.00	6.31	Average
3	2435.572	28.28	6.74	34.75	46.99	47.25	54.00	6.75	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Preamp Gain + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

3. The EUT with open case was measured, the limit not exceed the radiated emission limits specified in Section 15.109 of this part by more than 6 dB.

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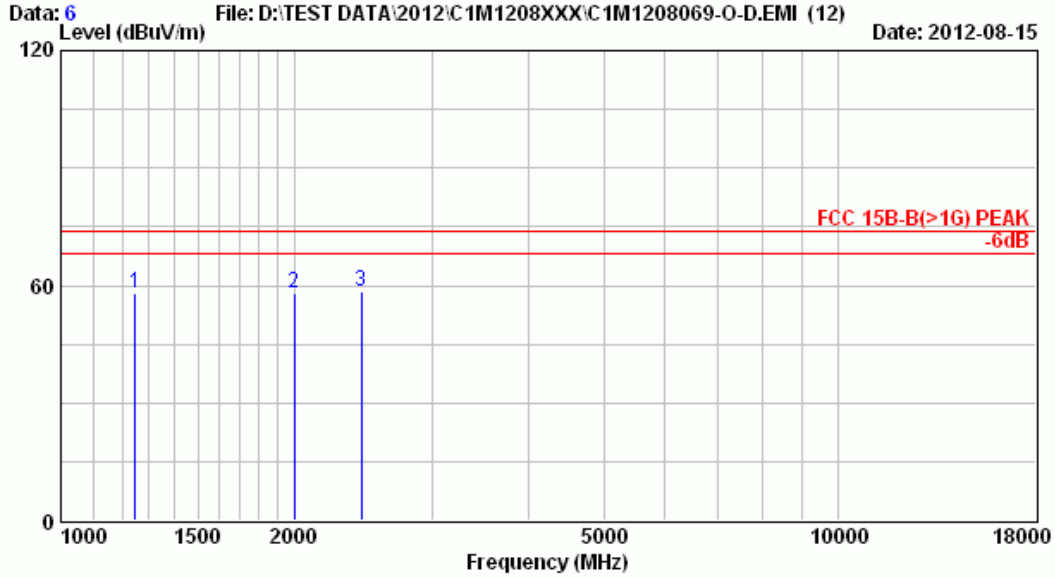

Site no. : OATS NO.8 Data no. : 6
Dis. / Ant. : 3m HORN 3115 Ant. pol. : HORIZONTAL
Limit : FCC 15B-B(>1G) PEAK
Env. / Ins. : 30*C/59% E7405A (134) Engineer : Edward
EUT : IMBM-H61A
Power Rating : 120Vac/60Hz
Test Mode : Full System 1600*1200/60Hz D-SUB+DVI

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	PREAMP GAIN (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	1245.954	24.93	4.49	35.26	64.08	58.24	74.00	15.76	Peak
2	1995.515	27.50	6.03	34.50	59.12	58.15	74.00	15.85	Peak
3	2435.955	28.28	6.74	34.75	58.29	58.55	74.00	15.45	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Preamp Gain + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

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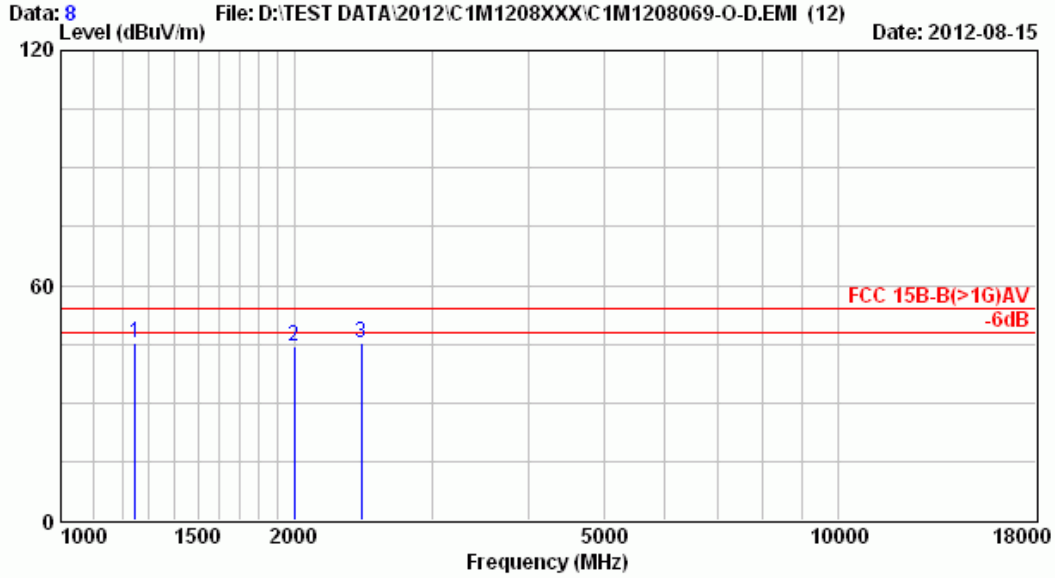

Site no. : OATS NO.8 Data no. : 8
Dis. / Ant. : 3m HORN 3115 Ant. pol. : HORIZONTAL
Limit : FCC 15B-B(>1G)AV
Env. / Ins. : 30*C/59% E7405A (134) Engineer : Edward
EUT : IMBM-H61A
Power Rating : 120Vac/60Hz
Test Mode : Full System 1600*1200/60Hz D-SUB+DVI

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	PREAMP GAIN (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	1245.249	24.93	4.49	35.26	51.26	45.42	54.00	8.58	Average
2	1995.416	27.50	6.03	34.50	45.48	44.51	54.00	9.49	Average
3	2435.518	28.28	6.74	34.75	44.94	45.20	54.00	8.80	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Preamp Gain + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

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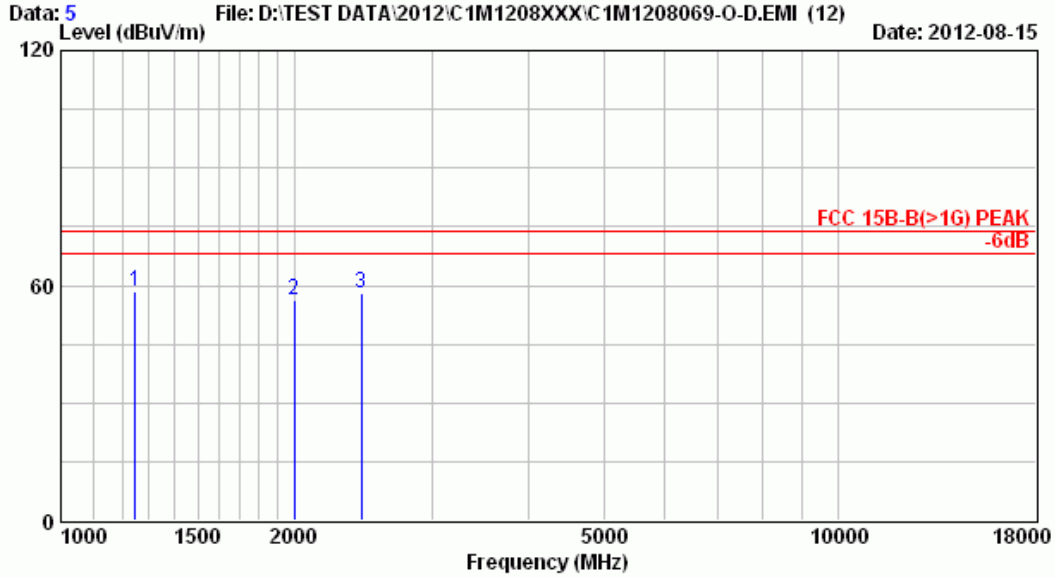

Site no. : OATS NO.8 Data no. : 5
Dis. / Ant. : 3m HORN 3115 Ant. pol. : VERTICAL
Limit : FCC 15B-B(>1G) PEAK
Env. / Ins. : 30*C/59% E7405A (134) Engineer : Edward
EUT : IMBM-H61A
Power Rating : 120Vac/60Hz
Test Mode : Full System 1600*1200/60Hz D-SUB+DVI

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	PREAMP GAIN (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	1245.188	24.93	4.49	35.26	64.20	58.35	74.00	15.65	Peak
2	1995.625	27.50	6.03	34.50	57.34	56.36	74.00	17.64	Peak
3	2435.584	28.28	6.74	34.75	57.94	58.21	74.00	15.79	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Preamp Gain + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

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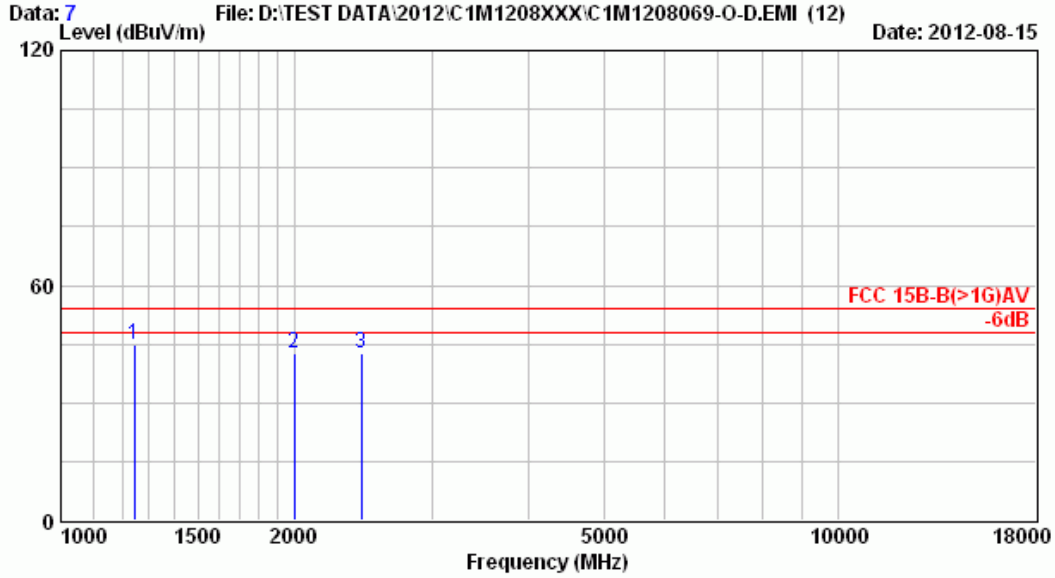


Site no. : OATS NO.8 Data no. : 7
Dis. / Ant. : 3m HORN 3115 Ant. pol. : VERTICAL
Limit : FCC 15B-B(>1G)AV
Env. / Ins. : 30*C/59% E7405A (134) Engineer : Edward
EUT : IMBM-H61A
Power Rating : 120Vac/60Hz
Test Mode : Full System 1600*1200/60Hz D-SUB+DVI

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	PREAMP GAIN (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	1245.054	24.93	4.49	35.26	50.48	44.64	54.00	9.36	Average
2	1995.244	27.50	6.03	34.50	43.55	42.58	54.00	11.42	Average
3	2435.215	28.28	6.74	34.75	42.17	42.43	54.00	11.57	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Preamp Gain + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

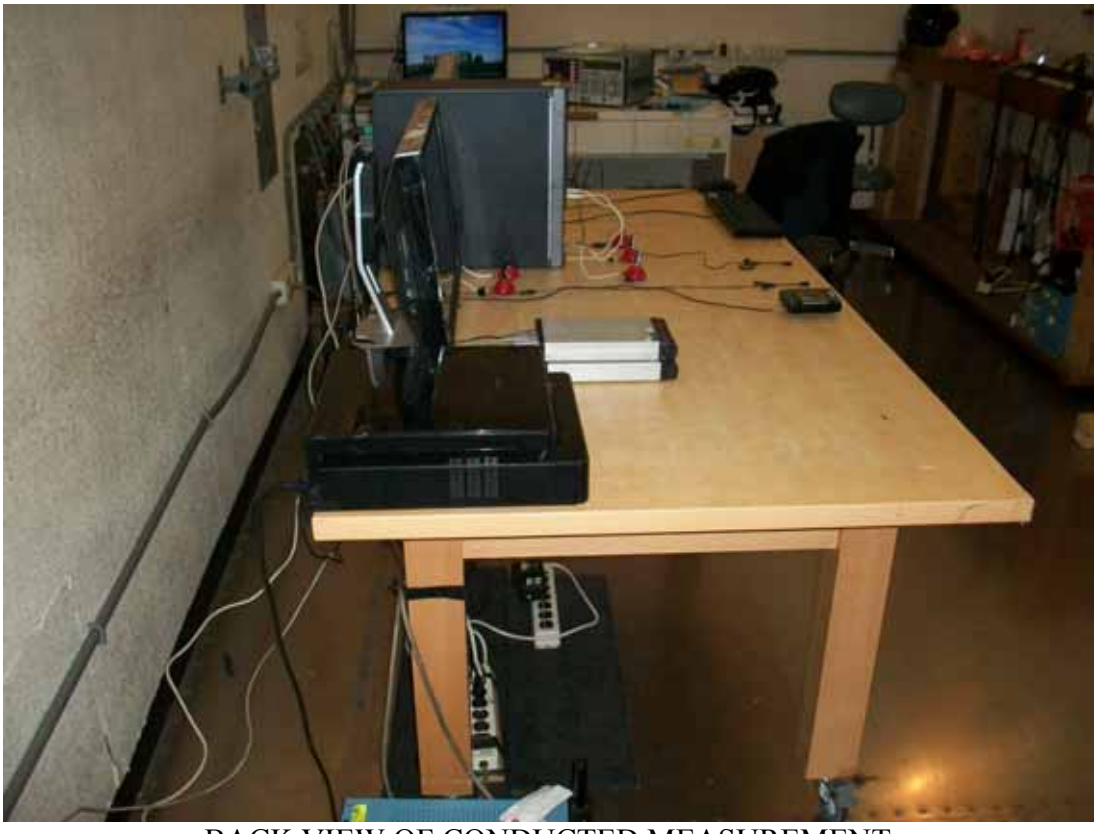
4. DEVIATION TO TEST SPECIFICATIONS

【NONE】

5. PHOTOGRAPHS

5.1. Photos of Powerline Conducted Emission Measurement

FRONT VIEW OF CONDUCTED MEASUREMENT



BACK VIEW OF CONDUCTED MEASUREMENT

5.2. Photos of Radiated Emission Measurement at Open Area Test Site (30-1000MHz)

Test Mode: Open Case

FRONT VIEW OF RADIATED MEASUREMENT

BACK VIEW OF RADIATED MEASUREMENT

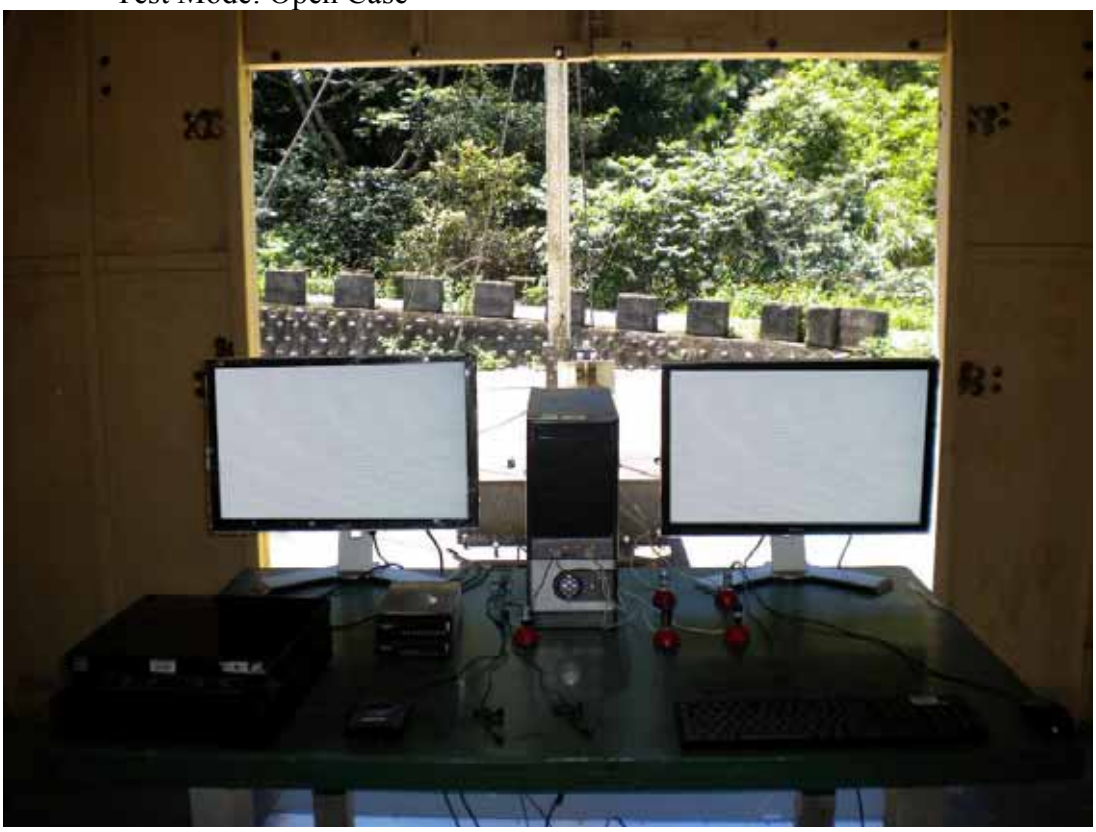
Test Mode: Close Case

FRONT VIEW OF RADIATED MEASUREMENT

BACK VIEW OF RADIATED MEASUREMENT

5.3. Photos of Radiated Emission Measurement at Open Area Test Site (Above 1GHz)

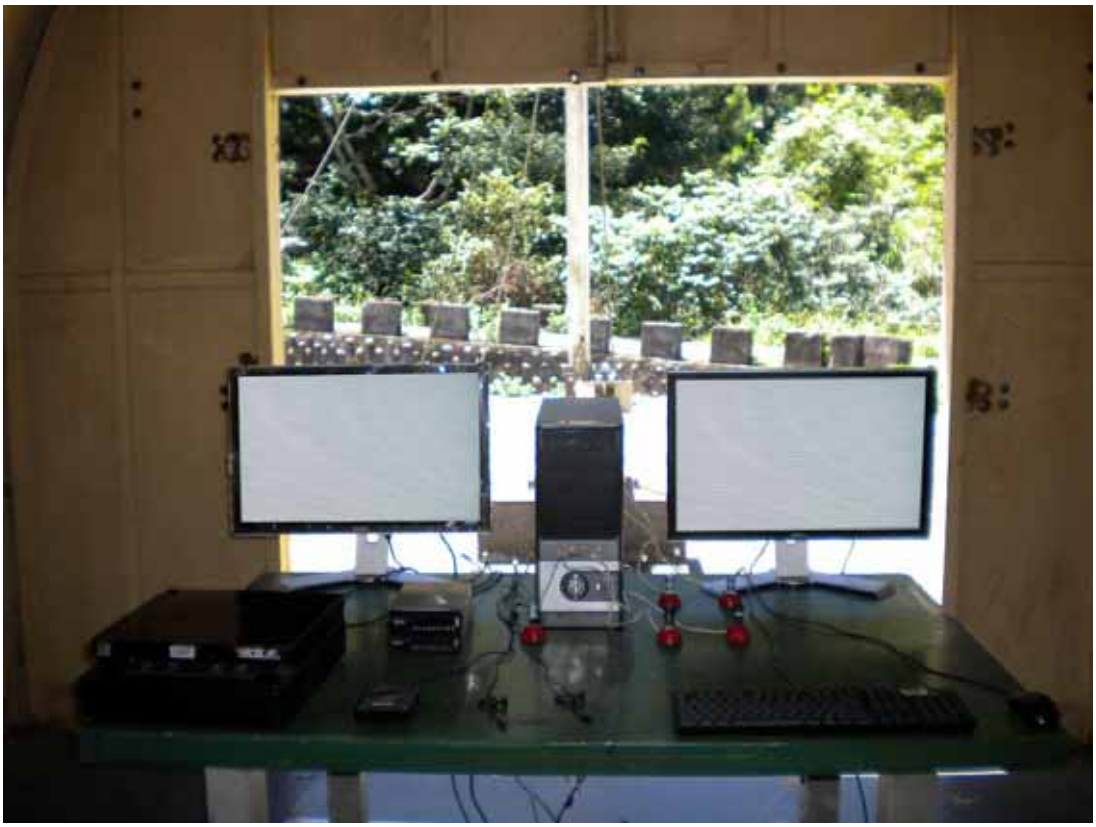
Test Mode: Open Case



FRONT VIEW OF RADIATED MEASUREMENT

BACK VIEW OF RADIATED MEASUREMENT

Test Mode: Close Case



FRONT VIEW OF RADIATED MEASUREMENT

BACK VIEW OF RADIATED MEASUREMENT

5.4. Partner PC System

APPENDIX I

(Photos of EUT)

(Total Page: 2 Pages)

Figure 1
Motherboard (Front View)

Figure 2
Motherboard (Back View)

Figure 3
Motherboard (Side View, I/O Ports)