



JAPAN QUALITY ASSURANCE ORGANIZATION

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JQA File No. : 441-50977

Issue Date : December 19, 2005

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EMI TEST REPORT

JQA File No. : **441-50977**

Model No. : PCG-6J1L

Type of Equipment : Personal Computer

Regulations Applied : CFR 47 FCC Rules and Regulations Part 15 Subpart B

FCC ID : N/A (DoC)

Applicant : Sony Electronics Inc.

Address : 16450 West Bernardo Drive San Diego, CA 92127 USA

Manufacturer : Sony Corporation.

Address : 6-7-35 Kitashinagawa, Shinagawa-ku Tokyo
141-0001, Japan

Received date of EUT : December 15, 2005

Final Judgment : Passed

TEST RESULTS IN THIS REPORT are obtained in use of equipment that is traceable to National Institute of Advanced Industrial Science and Technology (AIST) of Japan and National Institute of Information and Communications Technology (NICT) of Japan.

The test results only responds to the tested sample.

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This report must not used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government.



NVLAP LAB CODE : 200192-0

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1. DOCUMENTATION

1.1 TEST REGULATION

FCC Rules and Regulations Part 15 Subpart A and B (July 22, 2003) Class B Digital Device.

Test procedure :

AC powerline conducted emissions and radiated emissions tests were performed according to the procedures in ANSI C63.4-2003.

1.2 GENERAL INFORMATION

1.2.1 Test facility :

1) Test Facility located at JQA Safety & EMC Center EMC Engineering Department TSURU EMC Branch:

Open Site No.1, No.2, An Anechoic Chamber (3 m and 10 m, on common plane) and a Shielded Room

FCC Registration Number: 342182 (Date of Listing : March 30, 2005)

2) JQA Safety & EMC Center EMC Engineering Department TSURU EMC Branch is recognized under the National Voluntary Laboratory Accreditation Program for satisfactory compliance established in title 15, Part 285 Code of Federal Regulations.

NVLAP Lab Code : 200192-0 (Effective through : June 30, 2006)

1.2.2 Description of the Equipment Under Test (EUT) :

- | | |
|---|---|
| 1) Type of Equipment | : Personal Computer |
| 2) Product Type | : Prototype |
| 3) Category | : Class B Digital Device |
| 4) EUT Authorization | : Declaration of Conformity |
| 5) FCC ID | : N/A |
| 6) Trade Name | : SONY |
| 7) Model No. | : PCG-6J1L |
| 8) Fundamental Frequency Generated
In the EUT/Operated | : 2160MHz, 1250MHz, 450MHz, 350MHz,
270MHz, 250MHz, 200MHz, 133MHz,
100MHz, 96MHz, 83.5MHz, 48.71MHz,
33MHz, 25MHz, 24MHz, 14MHz, 12MHz,
10MHz, 32.768KHz |
| 9) Highest Frequency Used in the EUT | : 2160MHz |
| 10) Serial No. | : None |
| 11) Date of Manufacture | : - |
| 12) Power Rating | : 19.5VDC |
- The EUT was operated with the AC adaptor (Model:VGP-AC19V10, Input:100-240VAC 50/60Hz, Output:19.5VDC by Sony) via the Docking Station (Model:VGP-PRSZ1).
- | | |
|-------------------|--------|
| 13) EUT Grounding | : None |
|-------------------|--------|

1.2.3 Definitions for symbols used in this test report :

- X - indicates that the listed condition, standard or equipment is applicable for this report.
- indicates that the listed condition, standard or equipment is not applicable for this report.

1.3 TEST CONDITION

1.3.1 The measurement of the AC Powerline Conducted Emissions

X - was performed in the following test site.

___ - was not applicable.

Test location :

JQA Safety & EMC Center EMC Engineering Department TSURU EMC Branch
2096 Ohata, Tsuru-shi Yamanashi-ken 402-0045, JAPAN

X - Shielded Room A

___ - Shielded Room B

___ - Anechoic Chamber

___ - Open Site No.1

___ - Open Site No.2

Used test instruments :

	Type	Model No.	Manufacturer	Serial No.	Last Cal.	Interval
___ -	Test Receiver (R-3)	ESI7	Rohde & Schwarz	100059	2005/11	1 Year
<u>X</u> -	Test Receiver (R-4)	ESHS30	Rohde & Schwarz	842053/001	2005/2	1 Year
___ -	Test Receiver (R-5)	ESCS30	Rohde & Schwarz	100203	2005/2	1 Year
___ -	AMN (L-1)	KNW-407	Kyoritsu Electrical	8-833-5	2005/9	1 Year
<u>X</u> -	AMN (L-2)	KNW-407	Kyoritsu Electrical	8-680-14	2005/9	1 Year
<u>X</u> -	AMN (L-3)	KNW-407	Kyoritsu Electrical	8-757-1	2005/6	1 Year
___ -	AMN (L-4)	KNW-242	Kyoritsu Electrical	8-755-1	2005/6	1 Year
___ -	AMN (L-5)	KNW-242C	Kyoritsu Electrical	8-837-14	2005/6	1 Year
___ -	AMN (L-6)	KNW-243C	Kyoritsu Electrical	8-692-5	2005/9	1 Year
___ -	AMN (L-7)	KNW-243C	Kyoritsu Electrical	8-831-3	2005/6	1 Year
___ -	AMN (L-8)	KNW-243C	Kyoritsu Electrical	8-831-4	2005/6	1 Year
___ -	AMN (L-9)	KNW-243C	Kyoritsu Electrical	8-831-2	2005/9	1 Year
___ -	ISN (L-10)	ENY41	Rohde & Schwarz	0830663/046	2005/2	1 Year
___ -	ISN (L-11)	ENY22	Rohde & Schwarz	0830661/029	2005/2	1 Year
___ -	RF Cable (CB-3)	3D-2W	Fujikura	-	2005/5	1 Year
<u>X</u> -	RF Cable (CB-4)	3D-2W	Fujikura	-	2005/5	1 Year
___ -	RF Cable (CB-5)	3D-2W	Fujikura	-	2005/5	1 Year
___ -	Pulse Limiter (PL-3)	ESH3-Z2	Rohde & Schwarz	-	2005/11	1 Year
<u>X</u> -	Pulse Limiter (PL-4)	ESH3-Z2	Rohde & Schwarz	-	2005/2	1 Year
___ -	Pulse Limiter (PL-5)	ESH3-Z2	Rohde & Schwarz	-	2005/2	1 Year
___ -	50ohm Termination (TM-1)	BNC-P-1.5	TDC	-	2005/3	1 Year
<u>X</u> -	50ohm Termination (TM-2)	-	Y&R	-	2005/3	1 Year

1.3.2 The measurement of the Radiated Emissions(30 MHz - 1000 MHz)

X - was performed in the following test site.
 ___ - was not applicable.

Test location :

JQA Safety & EMC Center EMC Engineering Department TSURU EMC Branch
 2096 Ohata, Tsuru-shi Yamanashi-ken 402-0045, JAPAN

___ - Anechoic Chamber	___ - 3 meters
___ - Open Site No.1	<u>X</u> - 10 meters
<u>X</u> - Open Site No.2	___ - 30 meters

Validation of Site Attenuation :

1) Last Confirmed Date : 2005/5
 2) Interval : 1 year

Used test instruments :

	Type	Model No.	Manufacturer	Serial No.	Last Cal.	Interval
___ -	Test Receiver(R-1)	ESVS10	Rohde & Schwarz	84231/004	2005/3	1 Year
<u>X</u> -	Test Receiver(R-2)	ESVS10	Rohde & Schwarz	843744/018	2005/7	1 Year
___ -	Test Receiver(R-3)	ESI7	Rohde & Schwarz	100059	2005/11	1 Year
___ -	Test Receiver(R-5)	ESCS30	Rohde & Schwarz	100203	2005/2	1 Year
___ -	Biconical Antenna(AB-1)	BBA9106	Schwarzbeck	VHA91031741	2005/5	1 Year
<u>X</u> -	Biconical Antenna(AB-2)	BBA9106	Schwarzbeck	VHA91032349	2005/5	1 Year
___ -	Biconical Antenna(AB-3)	BBA9106	Schwarzbeck	VHA11905516	2005/5	1 Year
___ -	Log-Periodic Antenna(AL-1)	UHALP9108A	Schwarzbeck	0678	2005/5	1 Year
<u>X</u> -	Log-Periodic Antenna(AL-2)	UHALP9108A	Schwarzbeck	0679	2005/5	1 Year
___ -	Log-Periodic Antenna(AL-3)	UHALP9108	Schwarzbeck	0278	2005/5	1 Year
___ -	Log-Periodic Antenna(AL-4)	USLP9143	Schwarzbeck	140	2005/6	1 Year
___ -	Dipole Antenna(AD-1)	KBA-511A	Kyoritsu Electrical	0-195-5	2005/8	1 Year
___ -	Dipole Antenna(AD-2)	KBA-511A	Kyoritsu Electrical	0-228-13	2005/8	1 Year
___ -	Dipole Antenna(AD-3)	KBA-611	Kyoritsu Electrical	0-196-8	2005/8	1 Year
___ -	Dipole Antenna(AD-4)	KBA-611	Kyoritsu Electrical	0-230-6	2005/8	1 Year
___ -	RF Cable(CN-1)	20D/5D-2W	Fujikura	-	2005/5	1 Year
<u>X</u> -	RF Cable(CN-2)	20D/5D-2W	Fujikura	-	2005/5	1 Year
___ -	RF Cable(CN-3)	20D/5D-2W	Fujikura	-	2005/5	1 Year

1.3.3 The measurement of the Radiated Emissions(Above 1000 MHz)

X - was performed in the following test site.
 ___ - was not applicable.

Test location :

JQA Safety & EMC Center EMC Engineering Department TSURU EMC Branch
 2096 Ohata, Tsuru-shi Yamanashi-ken 402-0045, JAPAN

___ - Anechoic Chamber	___ - 3 meters
___ - Open Site No.1	<u>X</u> - 10 meters
<u>X</u> - Open Site No.2	___ - 30 meters

Validation of Site Attenuation :

1) Last Confirmed Date : 2005/5
 2) Interval : 1 year

Used test instruments :

	Type	Model No.	Manufacturer	Serial No.	Last Cal.	Interval
___ -	Test Receiver (R-3)	ESI7	Rohde & Schwarz	100059	2005/11	1 Year
___ -	Test Receiver (R-5)	ESCS30	Rohde & Schwarz	100203	2005/2	1 Year
___ -	Spectrum Analyzer (S-1)	R3361C	Advantest	71720774	2005/4	1 Year
<u>X</u> -	Spectrum Analyzer (S-4)	8563E	Hewlett Packard	3221A00201	2005/4	1 Year
___ -	Log-Periodic Antenna (AL-4)	USLP9143	Schwarzbeck	140	2005/6	1 Year
<u>X</u> -	Log-Periodic Antenna (AL-5)	94612-1	Eaton	97062301	2005/4	1 Year
___ -	Horn Antenna (AH-5)	12-12	Scientific Atlanta	770	2005/5	1 Year
<u>X</u> -	RF Cable (CS-1)	SUCOFLEX 104	Suhner	121947/4	2005/5	1 Year
<u>X</u> -	RF Cable (CS-2)	SUCOFLEX 104	Suhner	35687/4	2005/5	1 Year
___ -	RF Cable (CS-3)	SUCOFLEX 104	Suhner	39934/4	2005/5	1 Year
___ -	RF Cable (CS-4)	SUCOFLEX 104	Suhner	52053/4	2005/5	1 Year
___ -	RF Cable (CS-5)	SUCOFLEX 104	Suhner	52146/4	2005/5	1 Year
<u>X</u> -	Pre-Amplifier; (PA-1)	WJ-6811-513	Watkins Johnson	0288	2005/5	1 Year
<u>X</u> -	Pre-Amplifier; (PA-2)	WJ-6682-824	Watkins Johnson	0052	2005/5	1 Year
<u>X</u> -	Pre-Amplifier; (PA-3)	WJ-6870-506	Watkins Johnson	0018	2005/5	1 Year

Setting of the spectrum analyzer :

Resolution Bandwidth: 1 MHz
 Video Bandwidth : 10 Hz
 Sweep Time : 5 sec.
 Scale : Linear



JQA File No.

:441-50977

FCC ID

:N/A

Model No.

:PCG-6J1L

Issue Date

:December 19, 2005

Regulation

:CFR 47 FCC Rules Part 15

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1.4 EUT MODIFICATION / Deviation from Standard

1.4.1 EUT Modification

- X - No modifications were conducted by JQA to achieve compliance to the limitations.
 - To achieve compliance to the limitations, the following changes were made by JQA during the compliance test.

The modifications will be implemented in all production models of this equipment.

Applicant : _____ Date : _____

Typed Name : _____ Position : _____

1.4.2 Deviation from Standard:

- X - No deviations from the standard described in clause 1.1.
 - The following deviations were employed from the standard described in clause 1.1:

1.5 TEST RESULTS / UNCERTAINTY

AC Powerline Conducted Emissions:

<u>X</u> - Applicable	___ - NOT Applicable	___ - NOT Tested
The requirements are	<u>X</u> - PASSED	___ - NOT PASSED
Min. Limit Margin (Q.P.)	16.1 dB	at 0.61 MHz
Min. Limit Margin (AVE.)	dB	at MHz
Max. Limit Exceeding	dB	at MHz
Uncertainty of Measurement Results	<u>± 2.4 dB (2σ)</u>	

Remarks : _____

Radiated Emission:

<u>X</u> - Applicable	___ - NOT Applicable	___ - NOT Tested
The requirements are	<u>X</u> - PASSED	___ - NOT PASSED
Min. Limit Margin	1.9 dB	at 288.0 MHz
Antenna height Position	1.0 m	
EUT Position (CW)	210 degree	
Max. Limit Exceeding	dB	at MHz
Uncertainty of Measurement Results		
___ - Anechoic Chamber		
___ - 3 meters	30-300 MHz	<u>± 3.8 dB (2σ)</u>
	300 - 1000 MHz	<u>± 4.7 dB (2σ)</u>
___ - 10 meters	30-300 MHz	<u>± 3.7 dB (2σ)</u>
	300 - 1000 MHz	<u>± 3.6 dB (2σ)</u>
<u>X</u> - Open Site		
<u>X</u> - 3 meters	30-300 MHz	<u>± 4.0 dB (2σ)</u>
	300 - 1000 MHz	<u>± 4.8 dB (2σ)</u>
___ - 10 meters	30-300 MHz	<u>± 4.0 dB (2σ)</u>
	300 - 1000 MHz	<u>± 3.7 dB (2σ)</u>

Remarks : The measurement results is below the specification limit by a margin less than the measurement uncertainty; it is therefore not possible to state compliance based on the 95 % level of confidence. However, the result indicates that compliance is more probable than non-compliance with the specification limit.

1.6 SUMMARY

General Remarks :

The EUT was tested according to the requirements of FCC Rules and Regulations Part 15 Subpart A and B under the test configuration, as shown in clause 1.7 to 1.10.

The conclusion for the test items of which are required by the applied regulation is indicated under the final judgment.

Final Judgment :

The "as received" sample;

X - fulfill the test requirements of the regulation mentioned on clause 1.1.

___ - fulfill the test requirements of the regulation mentioned on clause 1.1, but with certain qualifications.

___ - doesn't fulfill the test regulation mentioned on clause 1.1.

Begin of testing : December 15, 2005

End of testing : December 15, 2005

- JAPAN QUALITY ASSURANCE ORGANIZATION -

EMI Tested by:



Kazuyuki Makimoto
Engineer
TSURU EMC Branch
JQA EMC Engineering Dept.

Approved by:

Issued by:



Takaharu Hada
Director
TSURU EMC Branch
JQA EMC Engineering Dept.



Kazuya Hayashi
Assistant Manager
TSURU EMC Branch
JQA EMC Engineering Dept.

RESPONSIBLE PARTY (FCC Part 2 §2.909)

Responsible Party of Test Item(Product)

Responsible Party :

Contact Person :

Signatory

Date : _____

1.7 TEST CONFIGURATION / OPERATION OF EUT

1.7.1 Test Configuration:

The equipment under test (EUT) consists of :

Symbol	Item	Manufacturer	Model No.	FCC ID	Serial No.
A(*1)	Personal Computer	Sony Corporation	PCG-6J1L	N/A (DoC)	-
B	AC Adaptor	Sony Corporation	VGP-AC19V10	N/A	-
C	Memory Stick Duo Slot	Sony Corporation	None	N/A	-
D	Express Card Slot	Sony Corporation	None	N/A	-
E	CD-RW/DVD±RW Drive	Sony Corporation	None	N/A	-
F	Battery	Sony Corporation	VGP-BPS2C	N/A	-
O	PC Card Slot	Sony Corporation	None	N/A	-

Note 1. This Personal Computer was operated with the AC adaptor (above symbol "B" Input:100-240VAC, 50/60Hz, Output:19VDC by Sony) via the Docking Station (Model:VGP-PRSZ1).

The measurement was carried out with the following support equipment connected :

Symbol	Item	Manufacturer	Model No.	FCC ID	Serial No.
G(*2)	Docking Station	Sony Corporation	VGP-PRSZ1	N/A (DoC)	-
H	Head Set	ELECOM	MS-NB50CRG	N/A	-
I(*3)	USB Memory	Sony Corporation	USM32A	N/A (DoC)	-
J(*3)	USB Keyboard	Great Quality	7932M	E5XKB7932MUF0310	B00500435
K(*4)	DV Camcorder	Sony Corporation	DCV-TRV11	N/A (DoC)	-
L	Memory Stick Pro Duo	Sony Corporation	MSX-M256	N/A	E321Z1B
M(*3)	USB Memory	Sony Corporation	USM62A	N/A (DoC)	-
N(*3)	LCD Display	NANAO	L465	N/A (DoC)	D3172122
P(*3)	USB Memory	Sony Corporation	USM32A	N/A (DoC)	-
Q	USB Mouse	Sony Corporation	PCGA-UMS3	N/A (DoC)	30707308
R	AC Adaptor (DV Camcorder)	Sony Corporation	AC-L10A	N/A	36711561
S	Telephone Line Emulator	LSI Japan	TLE-101III	N/A (DoC)	-
T	LAN Switching Hub	PLANEX	FXG-051M	FXG-051M	54E0068B
U	Express Card	Sony Corporation	VGP-MCA10	N/A (DoC)	1000167
V	Memory Stick Reader (with Memory Stick Pro)				
	PC Card	Sony Corporation	VGP-MCA20	N/A (DoC)	R000010438
	Memory Stick Reader (with Memory Stick Pro)				

Note 2. This Docking Station was operated with the AC adaptor (above symbol "B" Input:100-240V AC, 50/60Hz, Output:19.5VDC by Sony).

Note 3. These equipment were connected to the notebook personal computer via the Docking Station (Model:VGP-PRSZ1).

Note 4. This DV Camcorder was operated with the AC adaptor (above symbol "S" Input:100-240VAC 50/60Hz, Output:8.4VDC by Sony Corporation.).

Type of Cable :

Symbol	Description	Identification (Manufacturer etc.)	Shielded YES / NO	Ferrite Core	Length (m)
1	i.LINK Cable	-	YES	NO	1.5
2	USB Cable(for USB Keyboard)	-	YES	YES	1.5
3	Herd Set Cable(for Microphone)	ELECOM	NO	NO	1.0
4	Head Set Cable(for Headphone)	ELECOM	NO	NO	1.0
5	Telephone Cable	-	NO	NO	1.5
6	Ether Cable	-	NO	NO	1.0
7	VGA Monitor Cable	-	YES	YES	1.8
8	USB Cable(for USB Mouse)	-	YES	NO	1.0
9	AC Adaptor Cable(for EUT)	-	YES	NO	2.0
10	DVI Cable	-	YES	YES	1.5
11	AC Power Cable(for EUT)	-	NO	NO	0.8
12	Ether Cable	-	NO	NO	1.0
13	AC Adaptor Cable(for i.LINK HDD)	-	YES	NO	2.0
14	AC Power Cable(for i.LINK HDD)	-	NO	NO	2.0
15	AC Power Cable(for LCD Display)	-	NO	NO	1.8

1.7.2 Operating condition

Power supply Voltage : 120VAC, 60Hz(for AC Adaptor).

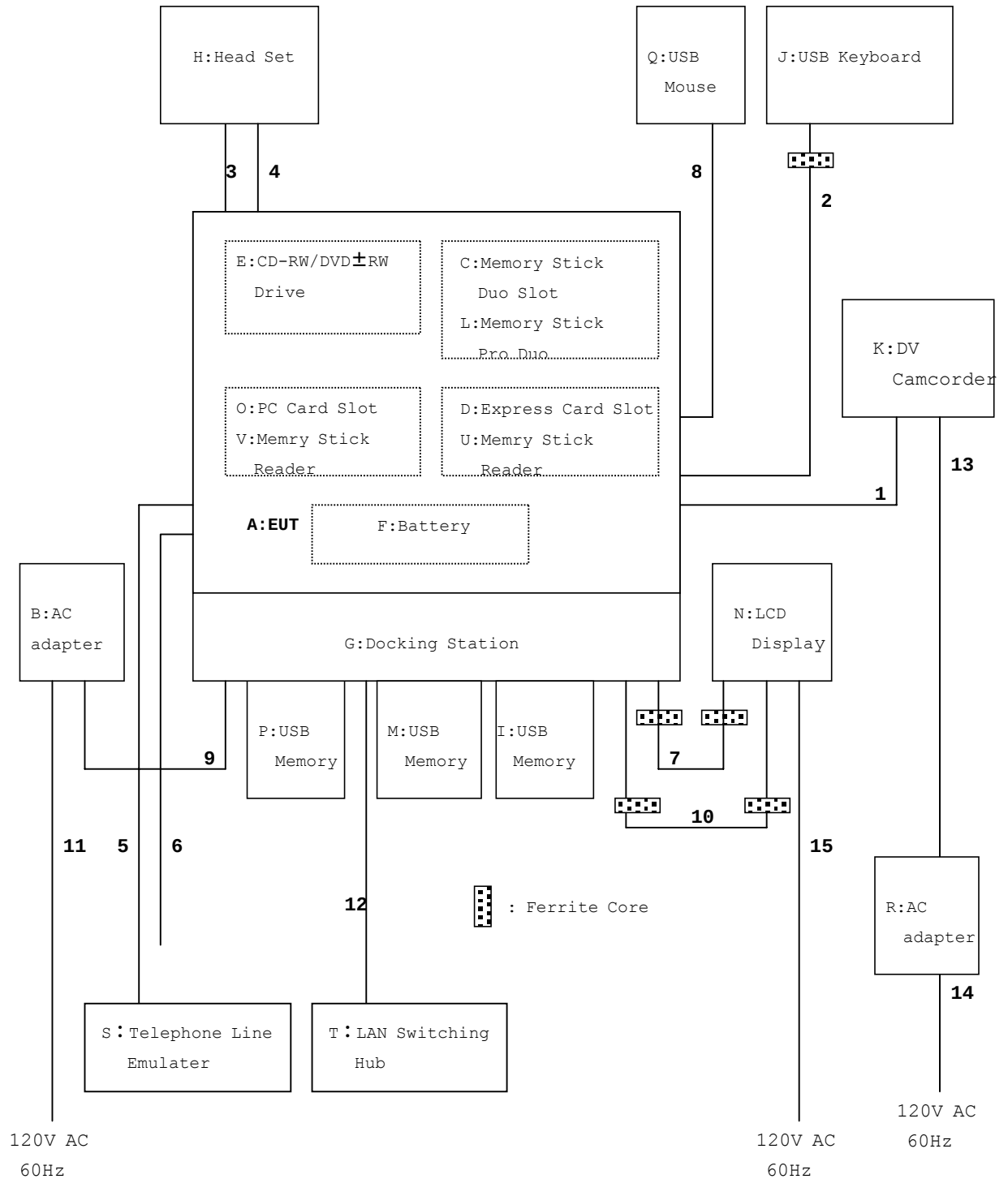
The tests have been carried out the following running mode.

- 1) LCD display(Note PC) displays "H" characters
- 2) CD-RW/DVD±RW drive: Read
- 3) HDD: Read/Write "H" characters
- 4) LCD display displays "H" characters
- 5) Memory Stick Slot: Read/Write
- 6) PC Crad Slot(with Memory Stick Reader): Read/Write
- 7) Express Crad Slot(with Memory Stick Reader): Read/Write
- 8) LAN:Communicates Switching Hub
- 9) MODEM:Communicates Line Emulator
- 10) Graphics:Speed Mode

1.7.3 Generating and Operating frequency of EUT

2160MHz, 1250MHz, 450MHz, 350MHz, 270MHz, 250MHz, 200MHz, 133MHz, 100MHz,
96MHz, 83.5MHz, 48.71MHz, 33MHz, 25MHz, 24MHz, 14MHz, 12MHz, 10MHz, 32.768KHz

1.8 EUT ARRANGEMENT (DRAWINGS)



1.9 EXPLORATORY TEST AND TEST-SETUP (DRAWINGS)

1.9.1 AC Powerline Conducted Emissions (150 kHz - 30 MHz) :

According to description of ANSI C63.4-2003 sec.7.2.3, the exploratory AC powerline conducted emissions measurements were carried out.

The exploratory conducted measurements were performed using the spectrum analyzer to observe the emissions characteristics of the EUT.

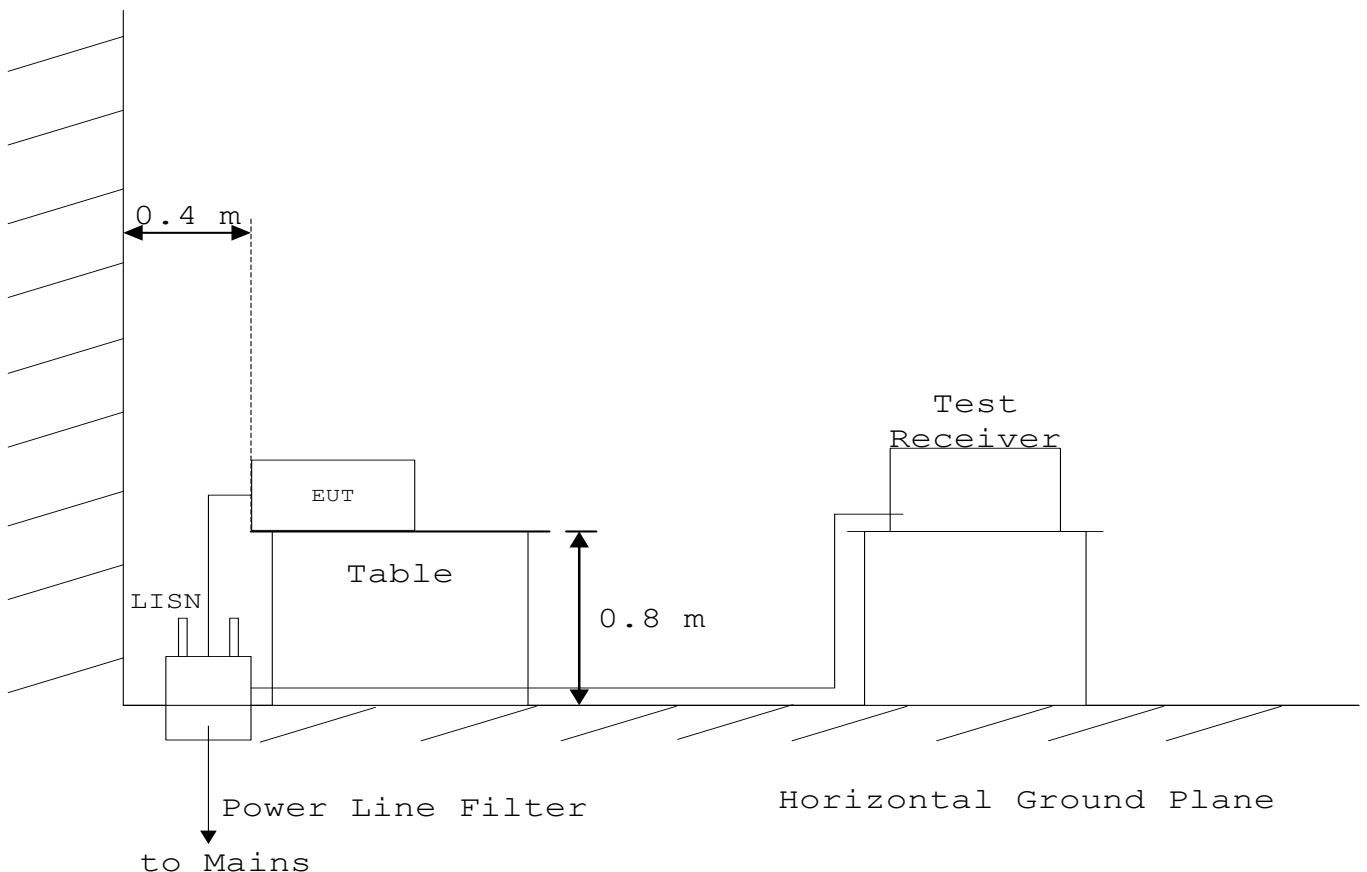
The EUT configuration, cable configuration and mode of operation were determined for producing the maximum level of emissions.

This configuration were used for final AC powerline conducted emissions measurements.

Shielded Enclosure

- Side View -

Vertical Ground Plane



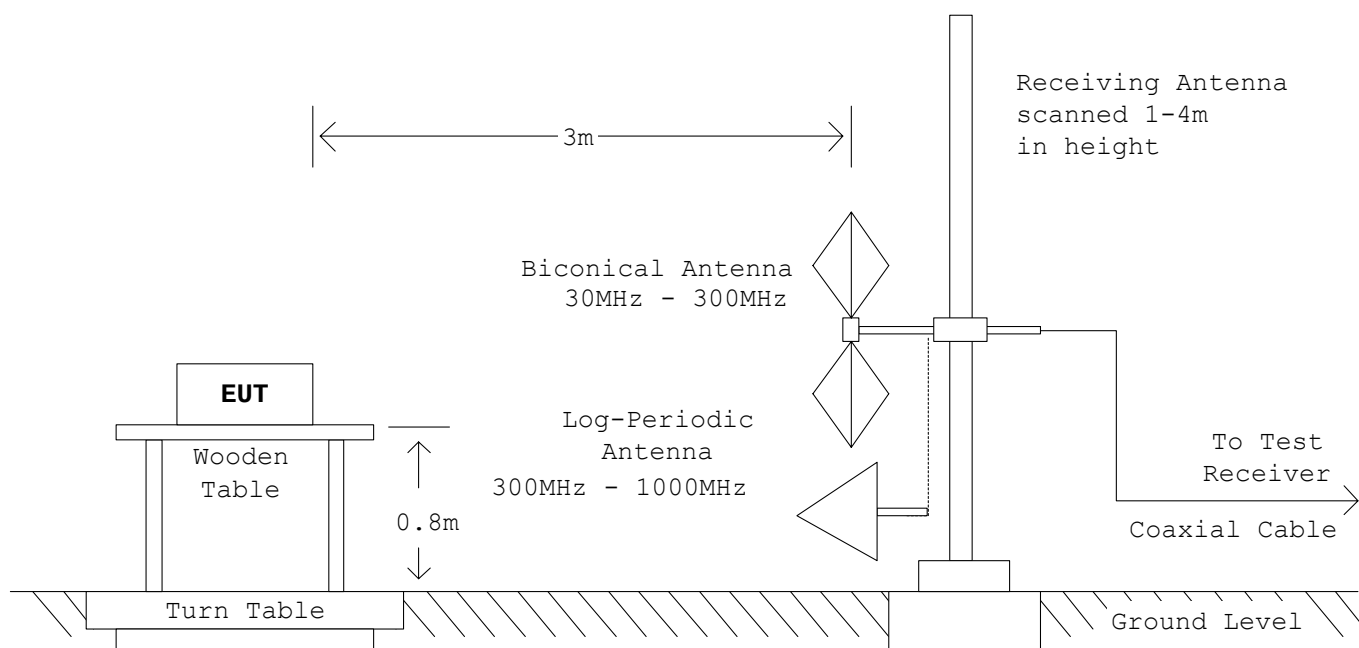
1.9.2 Radiated Emissions (30 MHz - 1000 MHz) :

According to description of ANSI C63.4-2003 sec.8.3.1.1, the exploratory radiated emissions measurements were carried out. The exploratory radiated measurements were performed at the measurement distance that specified for compliance to determine the emissions characteristics of the EUT.

The EUT configuration, cable configuration and mode of operation were determined for producing the maximum level of emissions.

This configuration was used for the final radiated emissions measurements.

- Side View -



1.9.3 Radiated Emissions (Above 1 GHz) :

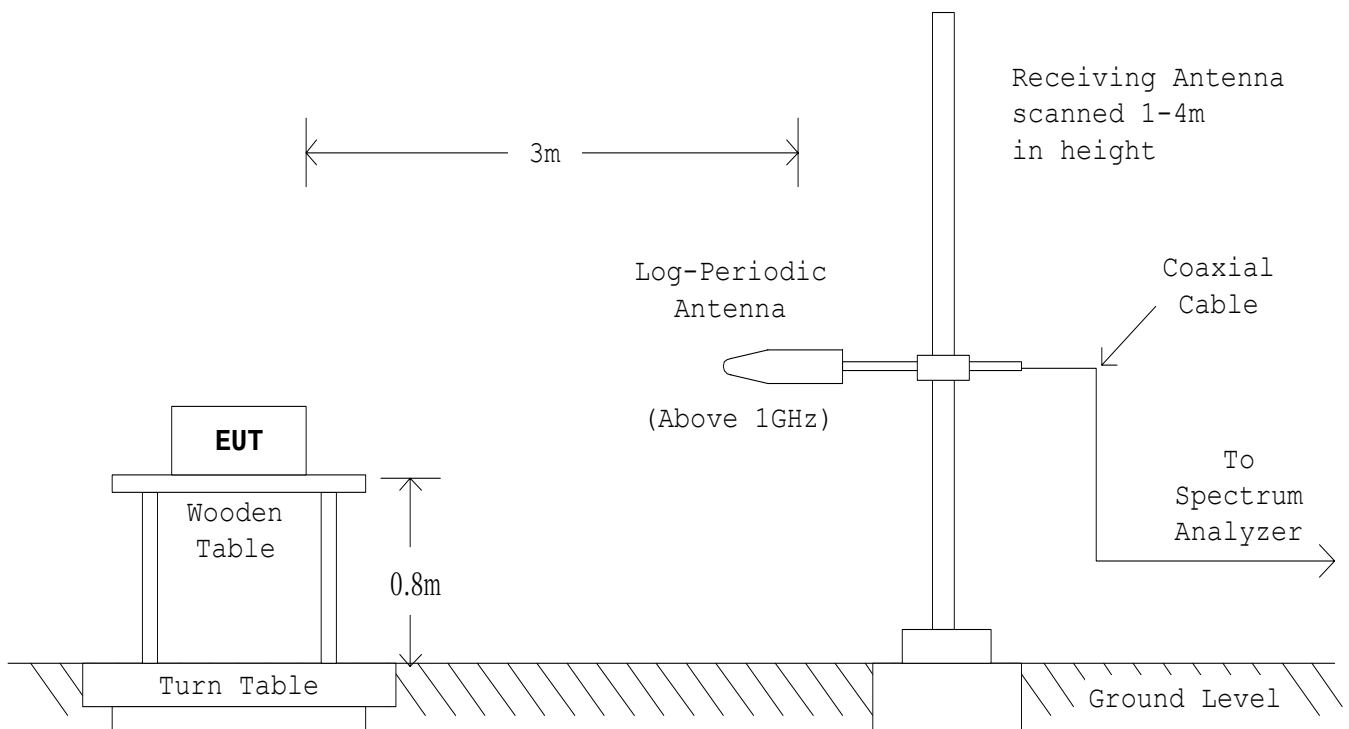
According to description of ANSI C63.4-2003 sec.8.3.1.1, the exploratory radiated emissions measurements were carried out.

The exploratory radiated measurements were performed at the measurement distance that specified for compliance to determine the emissions characteristics of the EUT.

The EUT configuration, cable configuration and mode of operation were determined for producing the maximum level of emissions.

This configurations was used for the final radiated emissions measurements.

- Side View -



2. TEST DATA

2.1. AC Powerline Conducted Emission Measurements (0.15 MHz - 30 MHz)

Date : December 15, 2005

Temp. : 12°C Humi.: 33% Atom.:952hPa

Frequency (MHz)	AMN	Meter Reading (dBμV)				Limits		Emission Level		Margin		Comment
	Factor	V-A		V-B		(dBμV)		(dBμV)		(dB)		
	(dB)	Q.P	AVE	Q.P	AVE	Q.P	AVE	Q.P	AVE	Q.P	AVE	
0.15	0.1	40.1	-	47.1	-	66.0	56.0	47.2	-	18.8	-	
0.20	0.1	45.2	-	45.3	-	63.6	53.6	45.4	-	18.2	-	
0.41	0.1	35.6	-	36.8	-	57.6	47.6	36.9	-	20.7	-	
0.61	0.1	38.5	-	39.8	-	56.0	46.0	39.9	-	16.1	-	
1.01	0.1	34.0	-	35.2	-	56.0	46.0	35.3	-	20.7	-	
1.36	0.1	35.2	-	36.4	-	56.0	46.0	36.5	-	19.5	-	
4.13	0.1	30.9	-	29.0	-	56.0	46.0	31.0	-	25.0	-	
4.95	0.1	29.7	-	28.7	-	56.0	46.0	29.8	-	26.2	-	
10.44	0.2	23.7	-	26.6	-	60.0	50.0	26.8	-	33.2	-	
15.39	0.3	23.4	-	21.7	-	60.0	50.0	23.7	-	36.3	-	
22.03	0.4	26.9	-	25.0	-	60.0	50.0	27.3	-	32.7	-	
27.11	0.5	31.1	-	30.0	-	60.0	50.0	31.6	-	28.4	-	
30.00	0.6	29.8	-	27.9	-	60.0	50.0	30.4	-	29.6	-	

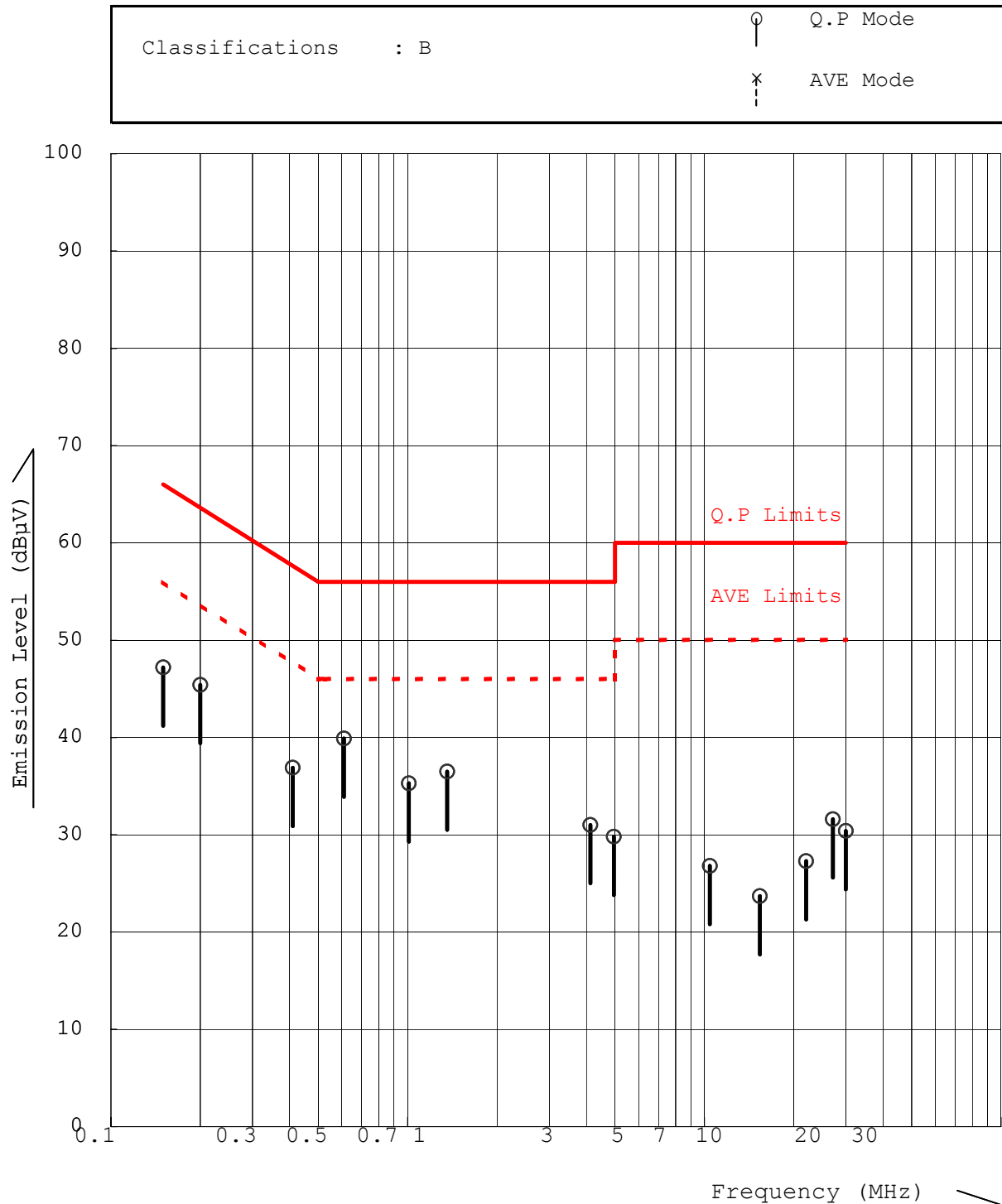
- Notes:
- 1) Test Location : Shielded Room
 - 2) The spectrum was checked from 0.15 MHz to 30 MHz
 - 3) AMN(Artificial Mains Network) factor includes the cable loss for 5 meter.
 - 4) The symbol of "<" means "or less".
 - 5) The symbol of ">" means "more than".
 - 6) The symbol of "-" means "Not applicable".
 - 7) V-A : One end & Ground V-B : The other end & Ground
 - 8) Q.P : Quasi-Peak Detector AVE : Average Detector
 - 9) A sample calculation was made at 0.15 MHz

$$\text{Amn} + \text{Mr} = 0.1 + 47.1 = 47.2 \text{ dB}\mu\text{V}$$

Amn : AMN Factor Mr : Meter Reading
 - 10) Setting of measuring instrument :

Detector Function : CISPR Quasi-Peak / Average
IF Bandwidth : 9 kHz / 10 kHz (0.15 MHz - 30 MHz)

AC Powerline Conducted Emissions Measurements (0.15 MHz - 30 MHz)



2.2. Radiated Emissions Measurements (30 MHz - 1000 MHz)

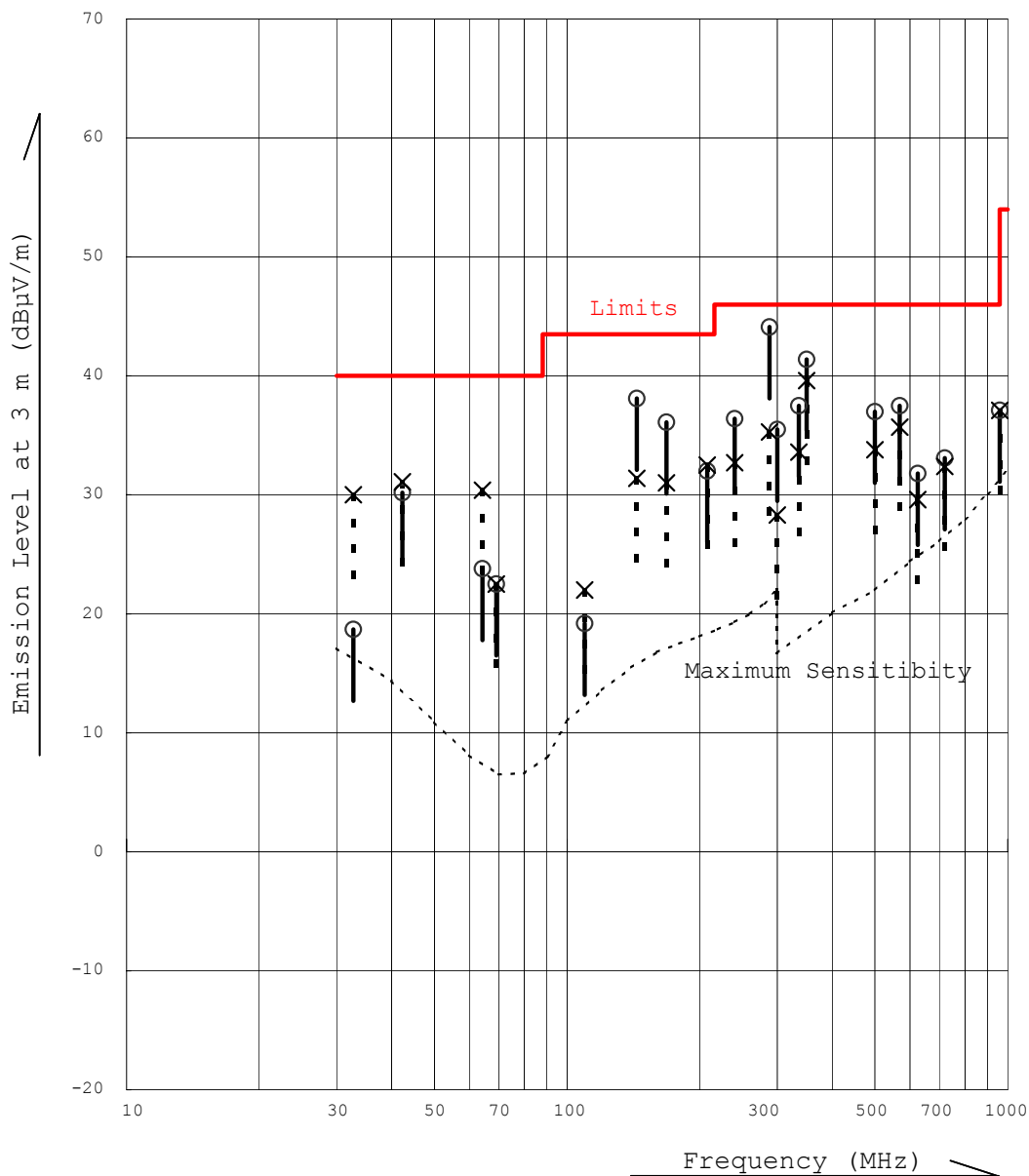
Date : December 15, 2005
Temp. : 5°C Humi.: 42% Atmo.: 952hPa

Frequency (MHz)	Antenna Factor (dB/m)	Meter Reading (dBμV)		Limits (dBμV/m)	Emission Level (dBμV/m)		Margin (dB)		Comment
		Horiz.	Ver.		Horiz.	Ver.	Horiz.	Ver.	
32.7	18.7	0.0	11.3	40.0	18.7	30.0	21.3	10.0	
42.3	15.6	14.6	15.5	40.0	30.2	31.1	9.8	8.9	
64.3	9.2	14.6	21.2	40.0	23.8	30.4	16.2	9.6	
69.1	8.6	13.9	13.9	40.0	22.5	22.5	17.5	17.5	
109.7	14.2	5.0	7.8	43.5	19.2	22.0	24.3	21.5	
144.0	17.7	20.4	13.7	43.5	38.1	31.4	5.4	12.1	
168.0	19.1	17.0	11.9	43.5	36.1	31.0	7.4	12.5	
208.0	20.3	11.7	12.2	43.5	32.0	32.5	11.5	11.0	
240.0	21.3	15.1	11.4	46.0	36.4	32.7	9.6	13.3	
288.0	23.3	20.8	12.0	46.0	44.1	35.3	1.9	10.7	
300.1	18.7	16.8	9.6	46.0	35.5	28.3	10.5	17.7	
336.0	19.5	18.0	14.1	46.0	37.5	33.6	8.5	12.4	
350.0	20.0	21.4	19.6	46.0	41.4	39.6	4.6	6.4	
500.0	24.0	13.0	9.8	46.0	37.0	33.8	9.0	12.2	
569.0	25.7	11.8	10.0	46.0	37.5	35.7	8.5	10.3	
625.0	26.8	5.0	2.8	46.0	31.8	29.6	14.2	16.4	
720.0	28.5	4.6	3.9	46.0	33.1	32.4	12.9	13.6	
960.0	33.3	3.8	3.8	46.0	37.1	37.1	8.9	8.9	

- Notes:
- 1) Test Location : Open Site No.2
 - 2) Test Distance : 3 m
 - 3) The spectrum was checked from 30 MHz to 1000 MHz.
 - 4) Antenna factor includes the cable loss for 58 meter.
 - 5) The symbol of "<" means "or less".
 - 6) The symbol of ">" means "more than".
 - 7) A sample calculation was made at 32.7 MHz
 $Af + Mr = 18.7 + 11.3 = 30.0 \text{ dB}\mu\text{V/m}$
Af : Antenna Factor Mr : Meter Reading
 - 8) Setting of measuring instrument :
Detector Function : CISPR Quasi-Peak
IF Bandwidth : 120 kHz

Radiated Emissions Measurements (30 MHz - 1000 MHz)

Measuring Distance : 3 m	○	Horizontal
Classifications : B	×	Vertical



2.3. Radiated Emissions Measurements (Above 1000 MHz)

Date : December 14, 2005
Temp. : 5°C Humi. : 45% Atom. : 952hPa

Frequency (MHz)	Antenna Factor (dB/m)	Meter Reading (dBμV)		Amp Gain (dB)	Limits (dBμV/m)	Emission Level (dBμV/m)		Margin (dB)		Comment
		Horiz.	Ver.			Horiz.	Ver.	Horiz.	Ver.	
1051.5	27.3	58.2	62.3	46.7	54.0	38.8	42.9	15.2	11.1	
1251.1	28.1	60.7	61.7	47.1	54.0	41.7	42.7	12.3	11.3	
1337.7	28.5	61.0	61.0	47.1	54.0	42.4	42.4	11.6	11.6	
1417.1	28.8	55.0	57.8	47.3	54.0	36.5	39.3	17.5	14.7	
1500.2	29.1	55.0	57.9	47.5	54.0	36.6	39.5	17.4	14.5	
1753.9	32.6	44.0	45.2	47.5	54.0	29.1	30.3	24.9	23.7	
2135.0	33.4	43.0	42.4	41.5	54.0	34.9	34.3	19.1	19.7	
3000.0	37.2	< 40.0	< 40.0	40.8	54.0	< 36.4	< 36.4	> 17.6	> 17.6	
5000.0	42.7	< 40.0	< 40.0	41.0	54.0	< 41.7	< 41.7	> 12.3	> 12.3	
7000.0	46.4	< 40.0	< 40.0	46.7	54.0	< 39.7	< 39.7	> 14.3	> 14.3	
10800.0	53.3	< 40.0	< 40.0	45.4	54.0	< 47.9	< 47.9	> 6.1	> 6.1	

- Notes: 1) Test Location : Open Site No.2
2) Test Distance : 3 m
3) The spectrum was checked from 1000 MHz to 2000 MHz.
4) Antenna factor includes the cable loss for 8 meter.
5) The symbol of "<" means "or less".
6) The symbol of ">" means "more than".
7) A sample calculation was made at 1051.5 MHz

$$Af + Mr - Ag = 27.3 + 62.3 - 46.7 = 42.9 \text{ dB}\mu\text{V/m}$$
Af : Antenna Factor
Mr : Meter Reading
Ag : Amp Gain
8) Setting of measuring instrument :
Resolution Bandwidth : 1 MHz
Video Bandwidth : 10 Hz
Detector Function : Peak
Sweep Time : 20 msec

Radiated Emissions Measurements (Above 1000 MHz)

Measuring Distance : 3 m	○ Horizontal
Classifications : B	× Vertical

