



JAPAN QUALITY ASSURANCE ORGANIZATION

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JQA APPLICATION NO. : 400-10583
Issue Date : December 3, 2001
Page 1 of 27

EMI TEST REPORT

JQA APPLICATION NO. : 400-10583
Model No. : PCG-441L
Type of Equipment : Notebook Personal Computer
Regulations Applied : CFR 47 FCC Rules and Regulations Part 15
FCC ID : N/A(Declaration of Conformity)
Applicant : Sony Electronics Inc.
Address : 680 Kinderkamack Road, Oradell NJ 07649 U.S.A
Manufacturer : Sony Corporation
Address : 6-7-35 Kitashinagawa, Shinagawa-ku,
Tokyo 141-0001, Japan
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 Communication Research Laboratory (CRL) of Japan.

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



NVLAP Lab. Code : 200189-0

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1. DOCUMENTATION

1.1 TEST REGULATION

FCC Rules and Regulations Part 15 Subpart A and B (June 23, 1989) Class B Digital Device.

Test procedure

AC power line conducted emission and radiated emission tests were performed According to the procedures in ANSI C63.4-1992.

1.2 GENERAL INFORMATION

1.2.1 Test facility :

- 1) Test Facility located at EMC Engineering Dept. Testing Div. :
No.2 and 3 Anechoic Chambers(3 meters Site).

FCC filing No. : 31040/SIT 1300F2

- 2) EMC Engineering Dept. Testing Div. 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 : 200189-0 (Effective through : June 30, 2002)

1.2.2 Description of the Equipment Under Test (EUT) :

- 1) Type of Equipment : Notebook 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-441L
- 8) Fundamental Frequency Generated/Operated In the EUT : 2.483GHz, 800.0MHz, 650.0MHz, 550.0MHz, 100.0MHz, 48.0MHz, 33.0MHz, 25.0MHz, 24.576MHz, 20.0MHz, 16.0MHz, 14.318MHz, 10.0MHz, 32.768kHz
- 9) Highest Frequency Used in the EUT : 2.483GHz
- 10) Serial No. : -
- 11) Date of Manufacture : -
- 12) Power Rating : 16VDC
The EUT was operated with the AC adaptor (Model:PCGA-16V3, Input:100-240VAC 50/60Hz, Output:16.0VDC by Sony).
- 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 Power Line Conducted Emission

☒ - was performed in the following test site.

☐ - was not applicable.

Test location :

Safety Testing Center EMC Engineering Dept. Testing Div.
21-25, Kinuta 1-chome, Setagaya-ku, Tokyo 157-8573, Japan

☒ - Shielded Enclosure

☐ - Anechoic Chamber No. 2 (portable Type)

Used test instruments :

Type	Model No.	Manufacturer	Serial No.	Last Cal.	Interval
☒ - Test Receiver	ESH-2	Rohde & Schwarz	880370/016	Jun. 2001	1 Year
☐ - Test Receiver	ESH-3	Rohde & Schwarz	881460/035	May. 2001	1 Year
☐ - Test Receiver	ESHS 10	Rohde & Schwarz	835871/004	May. 2001	1 Year
☒ - LISN(for Peripheral)	KNW-407	Kyoritsu Electrical	8-833-6	Apr. 2001	1 Year
☒ - LISN(for EUT)	KNW-407	Kyoritsu Electrical	8-855-2	Apr. 2001	1 Year
☐ - LISN	KNW-407	Kyoritsu Electrical	8-757-1	Apr. 2001	1 Year
☒ - RF Cable	3D-2W	Fujikura	155-21-006E0	Apr. 2001	1 Year
☐ - RF Cable	3D-2W	Fujikura	155-21-007E0	Apr. 2001	1 Year
☒ - 50ohm Termination	-	SUHRER	154-06-501E0	Jan. 2001	1 Year
☐ - 50ohm Termination	-	SUHRER	154-06-502E0	Jan. 2001	1 Year

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

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

Test location :

Safety Testing Center EMC Engineering Dept. Testing Div.
 21-25, Kinuta 1-chome, Setagaya-ku, Tokyo 157-8573, Japan

- ___ - Anechoic Chamber No. 2 (3 meters)
x - Anechoic Chamber No. 3 (3 meters)

Validation of Site Attenuation :

- 1) Last Confirmed Date : March, 2001
 2) Interval : 1 year

Used test instruments :

Type	Model No.	Manufacturer	Serial No.	Last Cal.	Interval
___ - Test Receiver	ESV	Rohde & Schwarz	872148/039	May. 2001	1 Year
___ - Test Receiver	ESVS10	Rohde & Schwarz	826148/002	May. 2001	1 Year
<u>x</u> - Test Receiver	ESVS10	Rohde & Schwarz	832699/001	Jun. 2001	1 Year
___ - Antenna	KBA-511A	Kyoritsu Electrical	0-170-1	Nov. 2001	1 Year
___ - Antenna	KBA-511A	Kyoritsu Electrical	0-201-13	Nov. 2001	1 Year
___ - Antenna	KBA-611	Kyoritsu Electrical	0-147-14	Nov. 2001	1 Year
___ - Antenna	KBA-611	Kyoritsu Electrical	0-210-5	Nov. 2001	1 Year
___ - Biconical Antenna	BBA9106	Schwarzbeck	VHA91031150	May. 2001	1 Year
<u>x</u> - Biconical Antenna	BBA9106	Schwarzbeck	11905078E0	May. 2001	1 Year
___ - Log-Periodic Antenna	UHALP9107	Schwarzbeck	11905079E0	May. 2001	1 Year
<u>x</u> - Log-Periodic Antenna	UHALP9107	Schwarzbeck	11905110	May. 2001	1 Year
___ - RF Cable	5D-2W	Fujikura	155-21-001E0	Feb. 2001	1 Year
<u>x</u> - RF Cable	5D-2W	Fujikura	155-21-002E0	Feb. 2001	1 Year

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

- ☒ - was performed in the following test site.
☐ - was not applicable.

Test location :

Safety Testing Center EMC Engineering Dept. Testing Div.
21-25, Kinuta 1-chome, Setagaya-ku, Tokyo 157-8573, Japan

- ☐ - Anechoic Chamber No. 2 (3 meters)
☒ - Anechoic Chamber No. 3 (3 meters)

Validation of Site Attenuation :

- 1) Last Confirmed Date : March, 2001
2) Interval : 1 year

Used test instruments :

Type	Model No.	Manufacturer	Serial No.	Last Cal.	Interval
☐ - Spectrum Analyzer	8563E	Hewlett Packard	3221A00201	May. 2001	1 Year
☐ - Spectrum Analyzer	8560E	Hewlett Packard	3240A00189	May. 2001	1 Year
☐ - Spectrum Analyzer	8566B	Hewlett Packard	2140A01091	Apr. 2001	1 Year
☐ - RF Pre-selector	85685A	Hewlett Packard	2648A00522	Apr. 2001	1 Year
☒ - Spectrum Analyzer	8566B	Hewlett Packard	2747A05855	May. 2001	1 Year
☒ - RF Pre-selector	85685A	Hewlett Packard	2091A00933	May. 2001	1 Year
☒ - Log-Periodic Antenna	HL 025	Rohde & Schwarz	340182/015	Nov. 2001	1 Year
☒ - RF Cable	S 04272B	Suhner	155-21-011	May. 2001	1 Year
☐ - RF Amplifier	DBP-0102N5334272B	DBS Microwave Inc.	012	Jun. 2001	1 Year
☒ - RF Amplifier	WJ-6882-814	Watkins-Johnson	0414	May. 2001	1 Year
☒ - RF Amplifier	WJ-5315-556	Watkins-Johnson	106	May. 2001	1 Year
☒ - RF Amplifier	WJ-5320-307	Watkins-Johnson	645	May. 2001	1 Year

Setting of the spectrum analyzer :

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

1.4 EUT MODIFICATION / Deviation from Standard

1.4.1 EUT MODIFICATION

- ☒ - No modifications were conducted by JQA to achieve compliance to Class B levels.
☐ - To achieve compliance to Class B levels, 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:

- ☒ - 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 Power Line Conducted Emission x - Applicable - NOT Applicable

The requirements are x - PASSED - NOT PASSED

Min. Limit Margin 7.2 dB at 0.71 MHz
 Max. Limit Exceeding dB at MHz

Uncertainty of Measurement Results
 +/- 2.4 dB (level of confidence:95%)

Remarks :

Radiated Emission x - Applicable - NOT Applicable

The requirements are x - PASSED - NOT PASSED

Min. Limit Margin 1.5 dB at 98.3 MHz
 Antenna height Position 2.0 m
 EUT Position (CW) 50 degree
 Max. Limit Exceeding dB at MHz
 Antenna height Position m
 EUT Position (CW) degree

Uncertainty of Measurement Results
 Biconical Antenna +/- 3.8 dB (level of confidence:95%)
 Log-Periodic Antenna +/- 4.7 dB (level of confidence:95%)

Remarks: Measurement result affect by uncertainty.

1.6 SUMMARY**General Remarks :**

The EUT was tested according to the requirements of FCC Rules and Regulations Part 15 Subpart A and B (June 23, 1989) 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 : November 26, 2001

End of testing : November 26, 2001

- JAPAN QUALITY ASSURANCE ORGANIZATION -

Approved by:



Masaaki Takahashi
Senior Manager
JQA EMC Engineering Dept.

Issued by:



Masanori Takahashi
Assistant Manager
JQA EMC Engineering Dept.

RESPONSIBLE PARTY (FCC Part 2 §2.909)**Responsible Party of Test Item(Product)**

Responsible Party : Sony Electronics Inc. Product Safety & Compliance
680 Kinderkamack Road, Oradell NJ 07649 U.S.A

Contact Person : Mr. Julio Posse
(Manager)

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)	Notebook Personal Computer	Sony Corporation	PCG-441L	N/A(DoC)	-
B	AC Adapter	Sony Corporation	PCGA-16V3	N/A	-
C	Battery	Sony Corporation	PCGA-BP2S/HI	N/A	-
D	Memory Stick Driver	Sony Corporation	-	N/A	-

Note 1. This Notebook Personal Computer was operated with the AC adapter(above symbol "B"
Input:120VAC 60Hz, Output:16.0VDC by Sony Corporation).

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

Symbol	Item	Manufacturer	Model No.	FCC ID	Serial No.
E	Headphone	Sony Corporation	MDR-E837LP	None	-
F	Microphone	Sony Corporation	ECM717	None	-
G	Display Adapter	Sony Corporation	PCGA-DA1S	None	-
H	CRT Display	Sony Corporation	CPD-G200	None(DoC)	2700819
I	Memory Stick PC Card Adapter	Sony Corporation	MSAC-PC1	None	9H004446
J	i.LINK CD-RW/DVD-ROM Drive	Sony Corporation	PCGA-CRWD1	None(DoC)	284824001100094
K	USB Floppy Disk Drive	Sony Corporation	PCGA-UFD5	None(DoC)	1418555211001356

Type of Cable :

Symbol	Description	Identification (Manufacturer etc.)	Connector Shielded YES / NO	Cable Shielded YES / NO	Ferrite Core	Length (m)
1	AC Power Cable (for EUT)	Sony Corporation	NO	NO	NO	0.8
2	DC Power Cable (for EUT)	Sony Corporation	NO	NO	NO	2.0
3	Accessory Cable	Sony Corporation	YES	YES	NO	0.8
4	Headphone Cable	Sony Corporation	NO	NO	NO	1.0
5	Microphone Cabl	Sony Corporation	NO	NO	NO	1.0
6	USB FDD Cable	Sony Corporation	YES	YES	NO	0.15
7	VGA Monitor Cable	Sony Corporation	YES	YES	YES	1.0
8	AC Power Cable (for CRT)	Sony Corporation	NO	YES	NO	1.8
9	Ether Cable	-	NO	NO	NO	0.5
10	Telephone Cable	-	NO	NO	NO	1.5

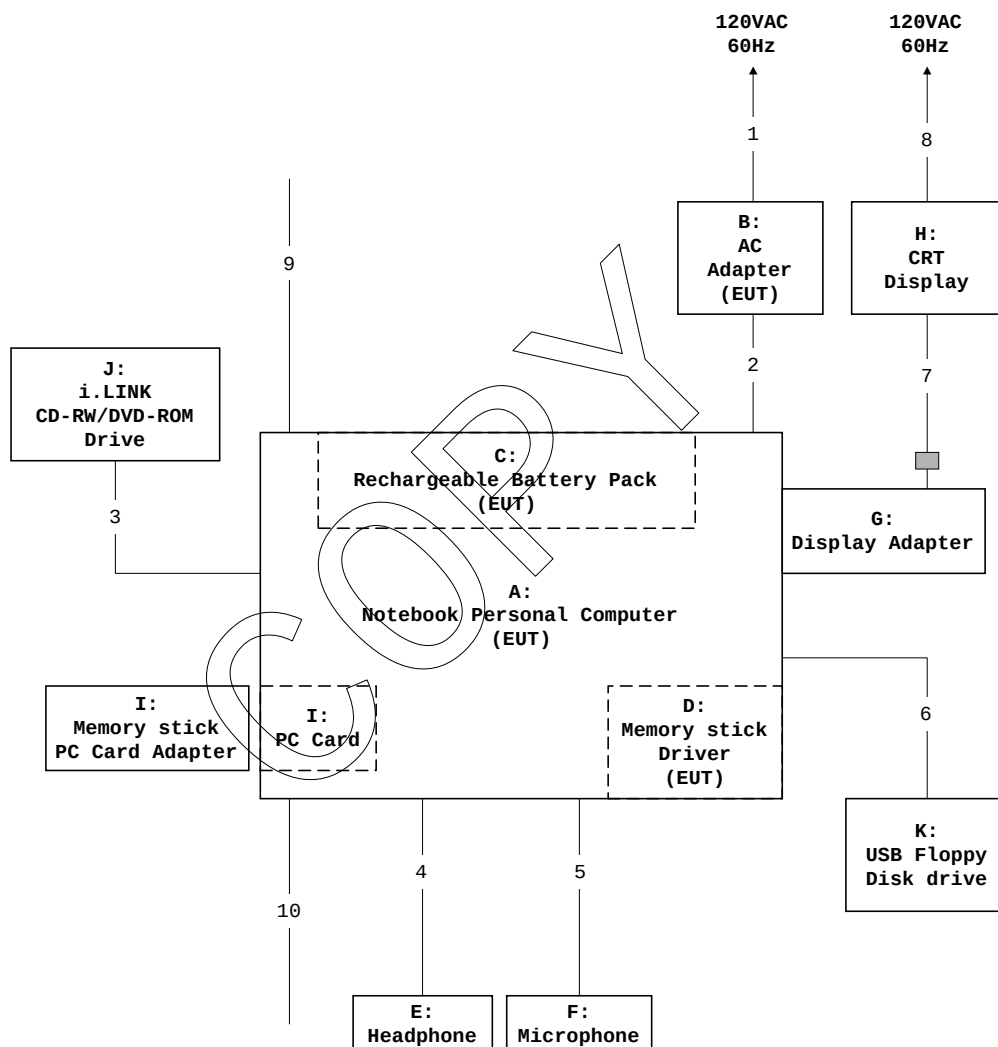
1.7.2 Operating condition

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

The tests have been carried out the following running mode.

- 1) LCD display (Note PC) displays "H" characters.
- 2) CD-RW/DVD-ROM drive: Read.
- 3) Floppy disk drive: Read / Write.
- 4) HDD: Read / Write.
- 5) CRT display displays "H" characters.
- 6) Memorystick PC Card Adapter: Read / Write.

1.8 EUT ARRANGEMENT (DRAWINGS)



■ : Ferrite core

1.9 PRELIMINARY TEST AND TEST-SETUP (DRAWINGS)

1.9.1 AC Power Line Conducted Emission (450 kHz - 30 MHz) :

According to description of ANSI C63.4-1992 sec.7.2.3, the AC power line preliminary conducted emissions measurement were carried out.

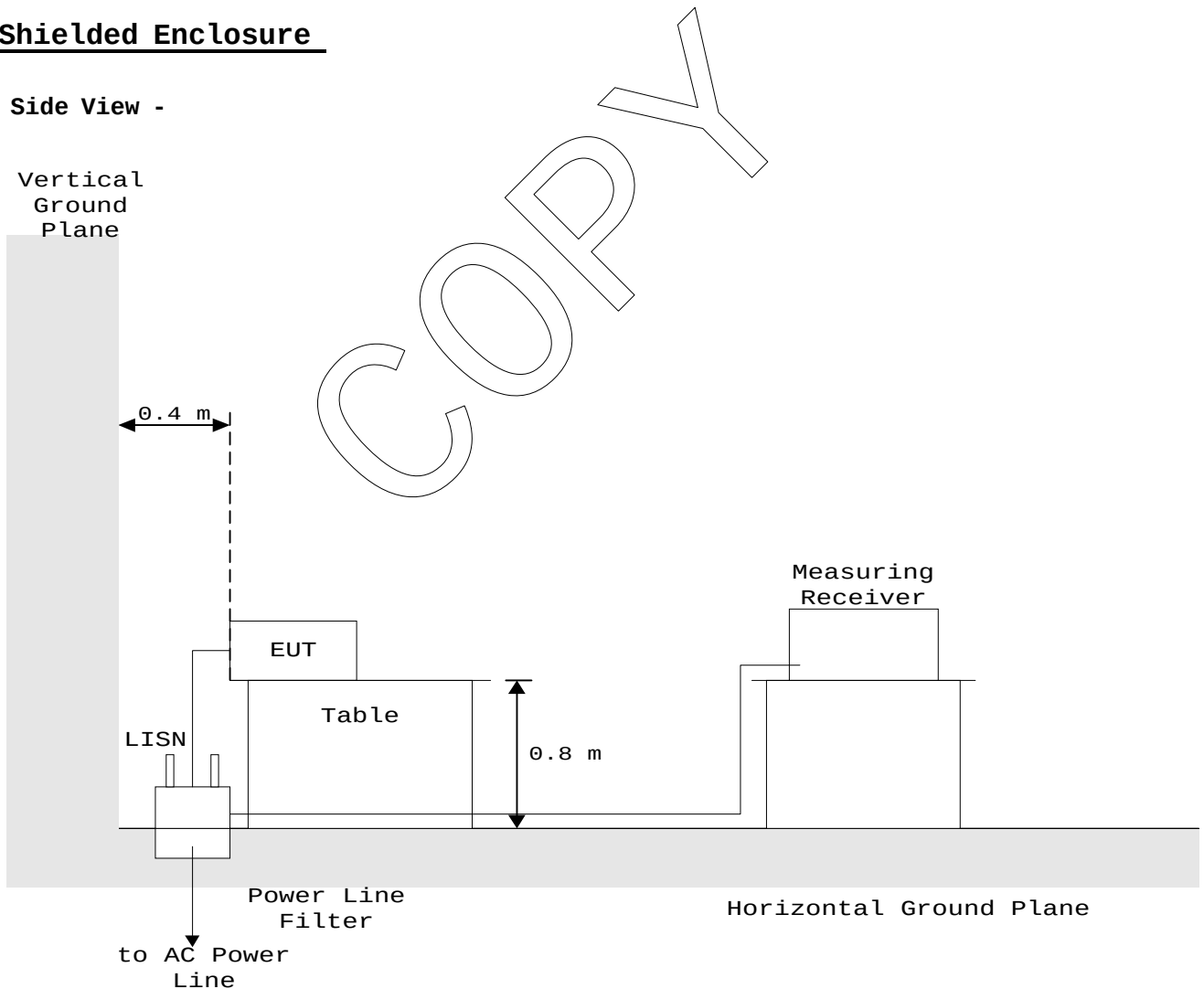
The preliminary conducted measurements were performed using the spectrum analyzer to observe the emission characteristics of the EUT.

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

These configurations were used for final AC power line conducted emissions measurements.

Shielded Enclosure

- Side View -



1.9.2 Radiated Emission (30 MHz - 1000 MHz) :

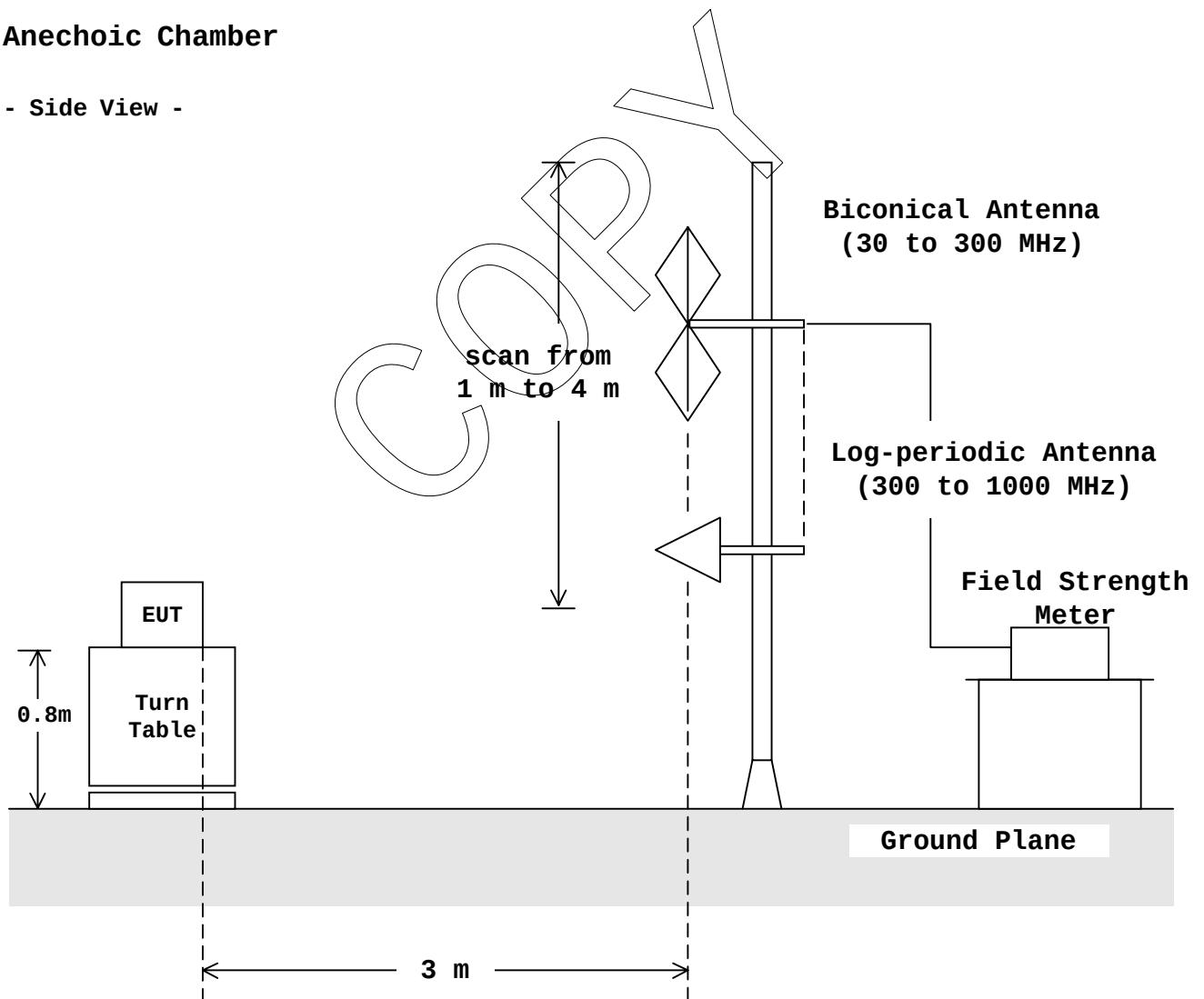
According to description of ANSI C63.4-1992 sec.8.3.1.1, the preliminary radiated emissions measurement were carried out. The preliminary radiated measurements were performed at the measurement distance that specified for compliance to determine the emission characteristics of the EUT.

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

These configurations were used for the final radiated emissions measurements.

Anechoic Chamber

- Side View -



1.9.3 Radiated Emission (Above 1 GHz) :

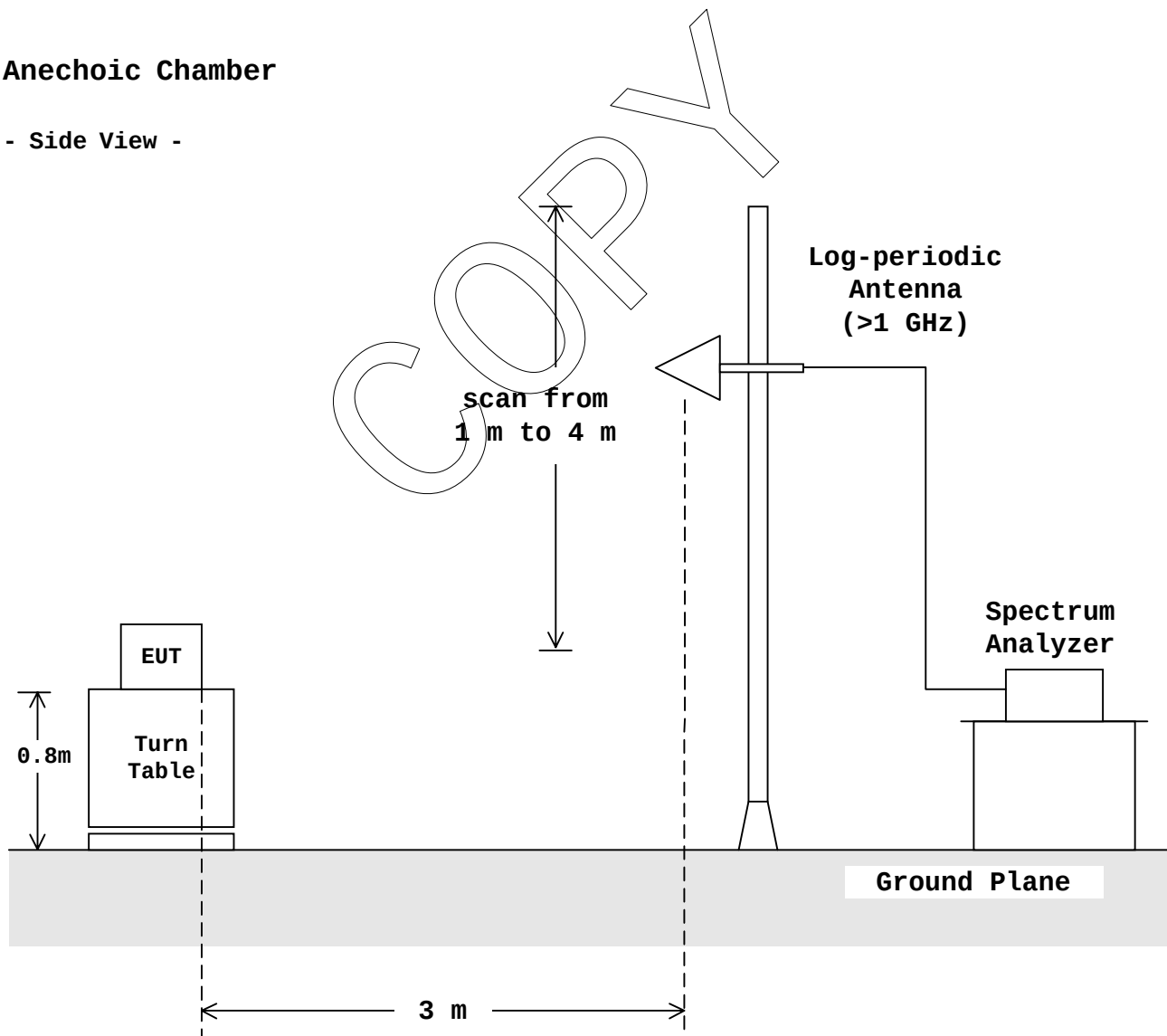
According to description of ANSI C63.4-1992 sec.8.3.1.1, the preliminary radiated emissions measurement were carried out. The preliminary radiated measurements were performed at the measurement distance that specified for compliance to determine the emission characteristics of the EUT.

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

These configurations were used for the final radiated emissions measurements.

Anechoic Chamber

- Side View -



1.10 TEST ARRANGEMENT (PHOTOGRAPHS)**PHOTOGRAPHS OF EUT CONFIGURATION FOR AC POWER LINE CONDUCTED EMISSIONS MEASUREMENT**

Photograph present configuration with maximum emission

- Front View -

PHOTOGRAPHS OF EUT CONFIGURATION FOR AC POWER LINE CONDUCTED EMISSIONS MEASUREMENT

Photograph present configuration with maximum emission

- Left-side View -



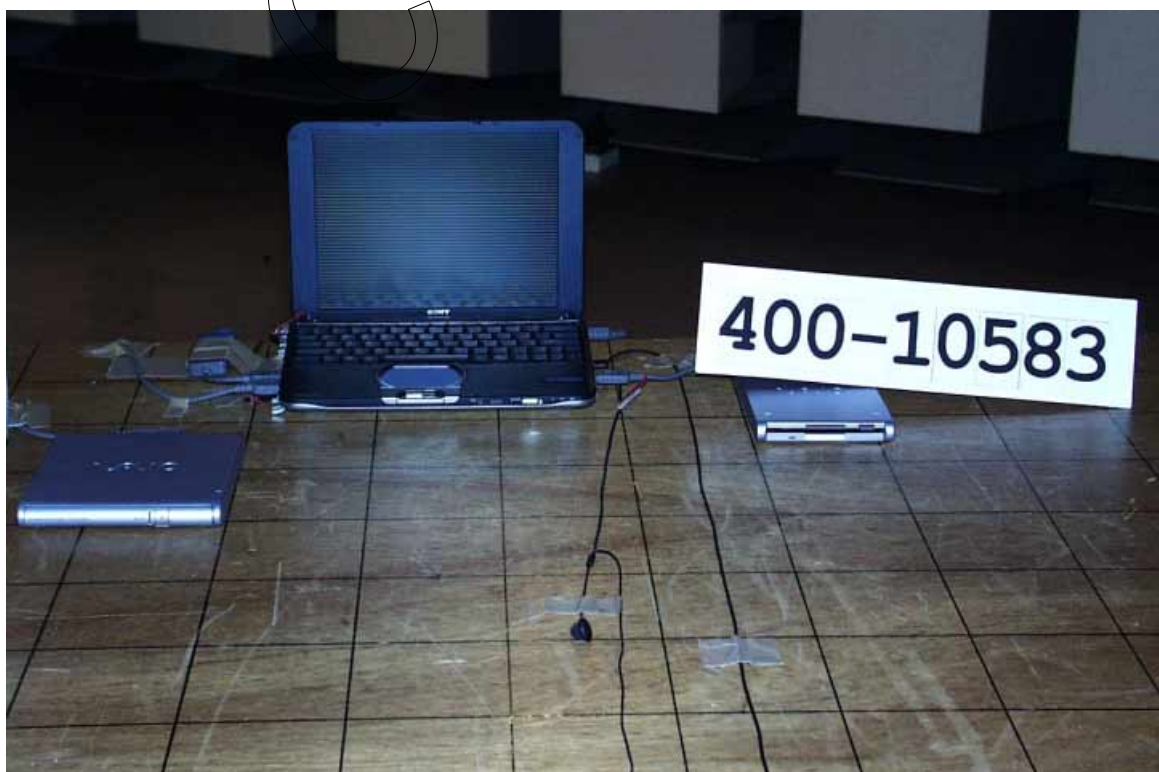
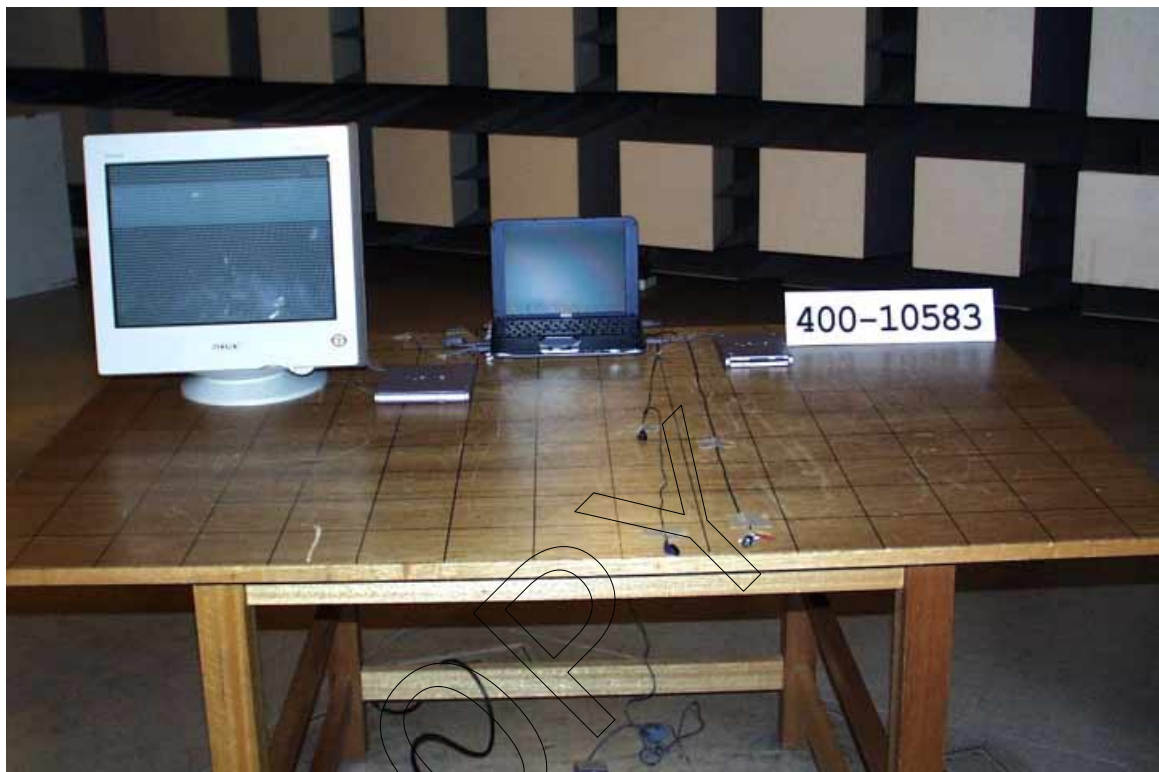
PHOTOGRAPHS OF EUT CONFIGURATION FOR AC POWER LINE CONDUCTED EMISSIONS MEASUREMENT

Photograph present configuration with maximum emission

- Right-side View -

PHOTOGRAPHS OF EUT CONFIGURATION FOR RADIATED EMISSIONS MEASUREMENT

Photograph present configuration with maximum emission

- Front View -

PHOTOGRAPHS OF EUT CONFIGURATION FOR RADIATED EMISSIONS MEASUREMENT

Photograph present configuration with maximum emission

- Rear View -

PHOTOGRAPHS OF EUT CONFIGURATION FOR RADIATED EMISSIONS MEASUREMENT

Photograph present configuration with maximum emission

- Rear View -

2. TEST DATA

2.1 AC Power Line Conducted Emission Measurement(0.45 MHz - 30 MHz)

Date November 26, 2001

Temp. 20 °C Humi. 36 %

Frequency (MHz)	LISN Factor (dB)	Meter Reading (dBuV)				Limits (dBuV)		Emission Level (dBuV)		Margins (dB)	
		V-A		V-B		Q.P	AVE	Q.P	AVE	Q.P	AVE
		Q.P	AVE	Q.P	AVE						
0.45	0.2	27.0	-	28.5	-	48.0	-	28.7	-	19.3	-
0.71	0.2	35.0	-	40.6	-	48.0	-	40.8	-	7.2	-
1.05	0.2	25.7	-	31.8	-	48.0	-	32.0	-	16.0	-
1.33	0.2	30.0	-	35.2	-	48.0	-	35.4	-	12.6	-
2.07	0.2	29.4	-	34.0	-	48.0	-	34.2	-	13.8	-
3.03	0.2	27.5	-	30.5	-	48.0	-	30.7	-	17.3	-
5.43	0.2	29.5	-	32.0	-	48.0	-	32.2	-	15.8	-
8.68	0.2	25.5	-	28.5	-	48.0	-	28.7	-	19.3	-
10.00	0.2	16.4	-	20.5	-	48.0	-	20.7	-	27.3	-
13.01	0.3	34.8	-	33.2	-	48.0	-	35.1	-	12.9	-
15.00	0.3	13.0	-	15.0	-	48.0	-	15.3	-	32.7	-
18.84	0.4	14.8	-	17.0	-	48.0	-	17.4	-	30.6	-
22.88	0.5	16.0	-	18.5	-	48.0	-	19.0	-	29.0	-
24.58	0.5	19.2	-	19.0	-	48.0	-	19.7	-	28.3	-
25.97	0.5	16.0	-	16.0	-	48.0	-	16.5	-	31.5	-
29.28	0.6	11.8	-	13.0	-	48.0	-	13.6	-	34.4	-

Notes : 1) The spectrum was checked from 0.45 MHz to 30 MHz.

2) The cable loss is included in the LISN factor.

3) The symbol of "<"means "or less".

4) The symbol of ">"means "or greater".

5) The symbol of "-"means "Not applicable".

6) V-A : One end & Ground V-B : The other end & Ground

7) Q.P : Quasi-peak AVE : Average

8) A sample calculation was made at 0.45 (MHz).

$$L_f + M_r = 0.2 + 28.5 = 28.7(\text{dBuV})$$

L_f = LISN FactorM_r = Meter Reading

Tested by :

T. Ishii

Takashi Ishii

Testing Engineer

AC POWER LINE CONDUCTED EMISSION MEASUREMENT

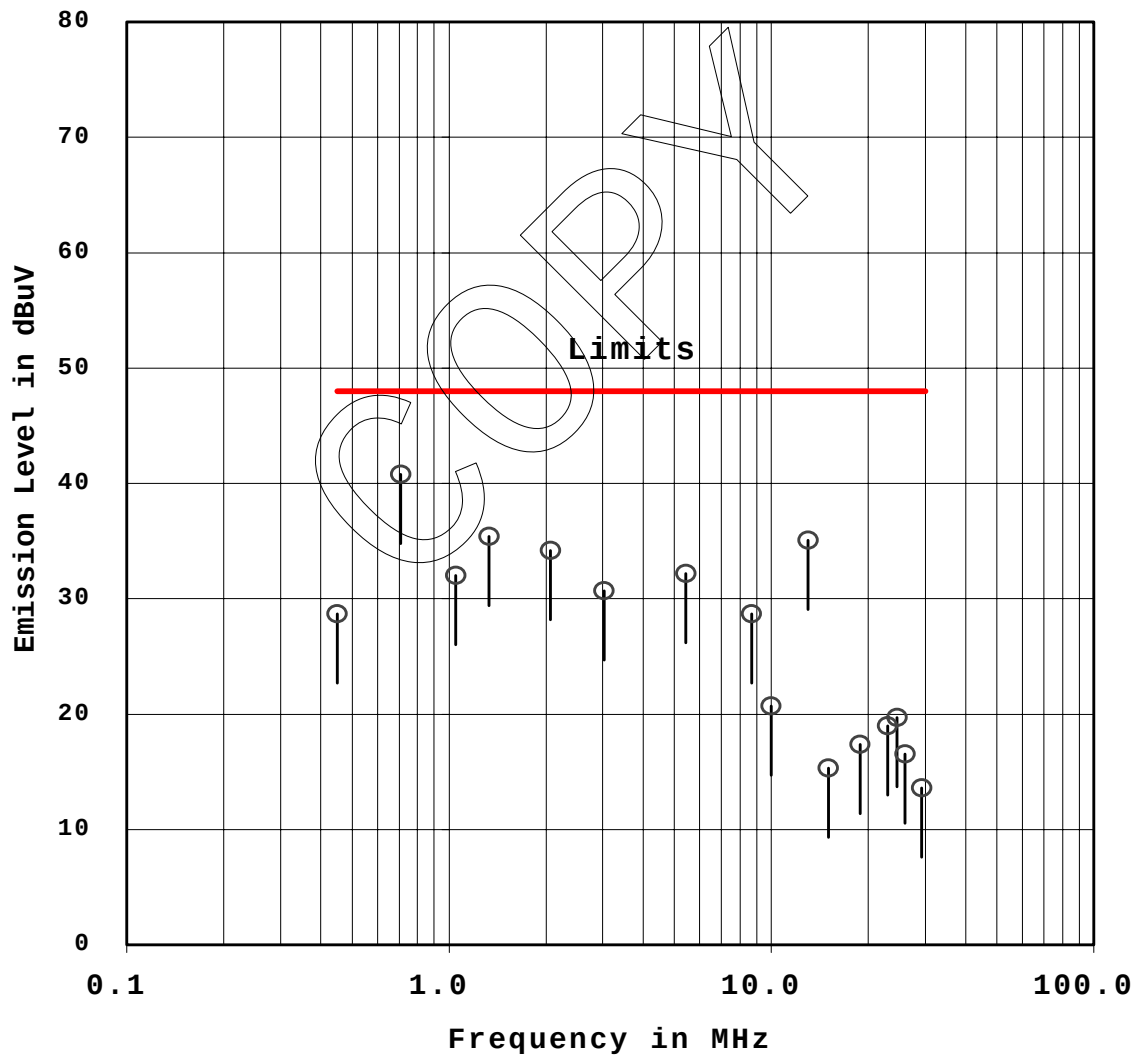
Model No. : PCG-441L

Standard : CFR 47 FCC Rules Part 15

o Quasi-peak

Category : Class B

x Average



2.2 Radiated Emissions Measurement(30 MHz - 1000 MHz)

Date : November 26, 2001

Temp. : 20 °C Humi. : 48 %

Frequency (MHz)	Antenna Factor (dB)	Meter Reading (dBuV)		Limits (dBuV/m)	Emission Levels (dBuV/m)		Margins (dB)	
		Horiz.	Vert.		Horiz.	Vert.	Horiz.	Vert.
36.9	14.9	4.9	17.3	40.0	19.8	32.2	20.2	7.8
45.5	13.1	3.1	17.9	40.0	16.2	31.0	23.8	9.0
66.2	6.7	22.5	12.0	40.0	29.2	18.7	10.8	21.3
84.5	8.5	12.4	19.9	40.0	20.9	28.4	19.1	11.6
98.3	10.9	26.1	31.1	43.5	37.0	42.0	6.5	1.5
114.0	12.9	19.6	11.8	43.5	32.5	24.7	11.0	18.8
145.4	15.6	21.6	18.7	43.5	37.2	34.3	6.3	9.2
196.6	17.8	21.0	14.7	43.5	38.8	32.5	4.7	11.0
247.2	19.5	16.7	8.2	46.0	36.2	27.7	9.8	18.3
273.0	20.2	15.5	7.9	46.0	35.7	28.1	10.3	17.9
312.1	18.2	19.1	11.7	46.0	37.3	29.9	8.8	16.2
351.8	18.3	14.6	13.5	46.0	32.9	31.8	13.1	14.2
444.5	20.0	15.9	14.8	46.0	35.9	34.8	10.1	11.2
550.3	22.4	11.5	11.9	46.0	33.9	34.3	12.1	11.7
695.6	24.5	6.7	6.2	46.0	31.2	30.7	14.9	15.4
801.2	25.6	4.0	1.8	46.0	29.6	27.4	16.4	18.6
901.3	26.8	7.1	3.7	46.0	33.9	30.5	12.1	15.5

- Notes :
- 1) The spectrum was checked from 30 MHz to 1000 MHz.
 - 2) The cable loss is included in the antenna factor.
 - 3) The symbol of "<" means "or less".
 - 4) The symbol of ">" means "or greater".
 - 5) A sample calculation was made at 36.9 (MHz).
 $Af + Mr = 14.9 + 17.3 = 32.2 \text{ (dBuV/m)}$
 Af = Antenna Factor
 Mr = Meter Reading

Tested by :

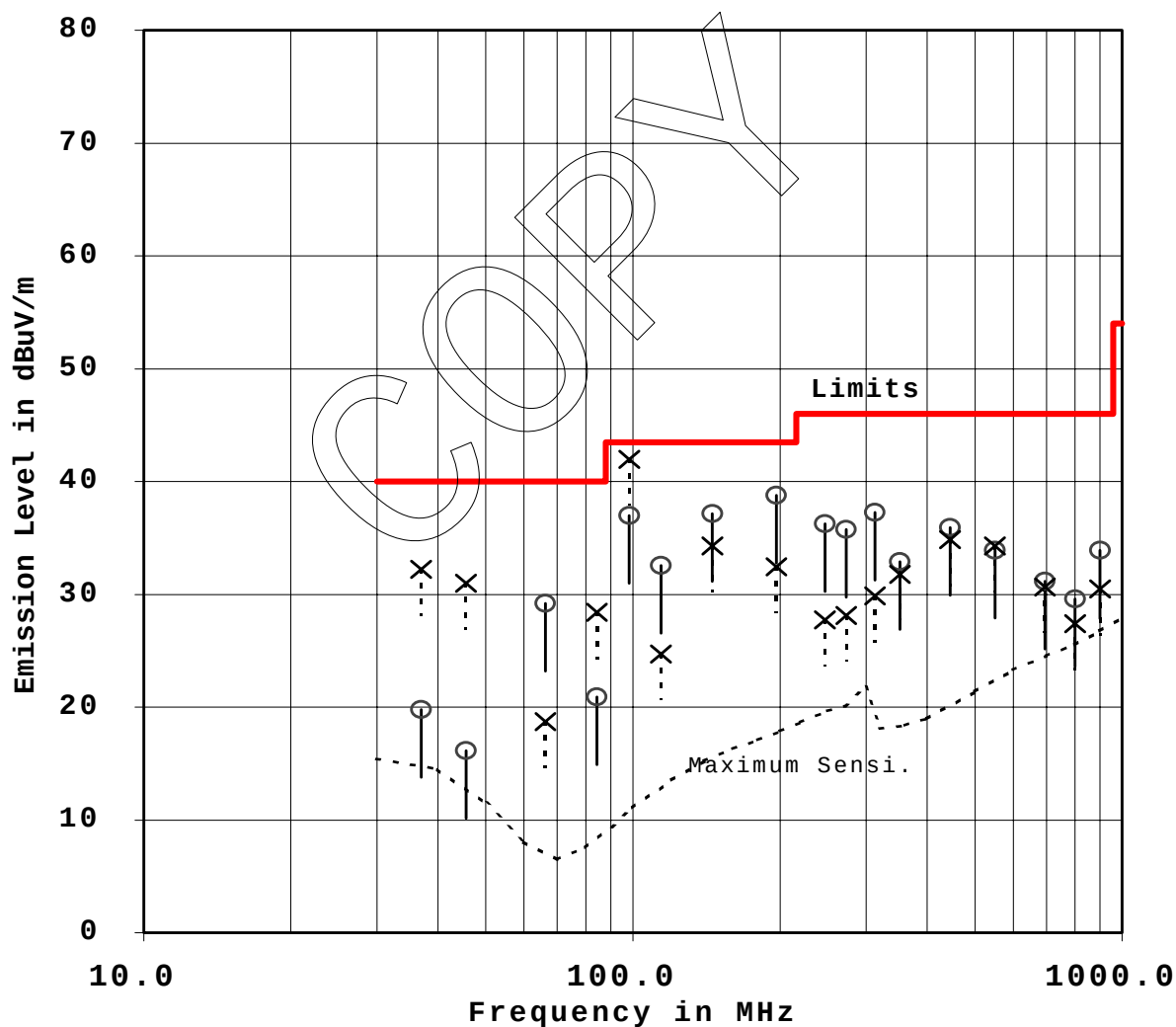
T. Ishii

Takashi Ishii
 Testing Engineer

RADIATED EMISSION MEASUREMENT

Model No. : PCG-441L

Standard : CFR 47 FCC Rules Part 15	0	Horizontal
Category : Class B	X	Vertical



2.3 Radiated Emissions Measurement(Above 1 GHz)

Date : November 26, 2001

Temp. : 20 °C Humi. 48 %

Frequency (GHz)	Amp. Gain (dB)	Antenna Factor (dB)	Meter Reading (dBuV)		Limits (dBuV/m)	Emission Levels (dBuV/m)		Margins (dB)	
			Horiz.	Vert.		Horiz.	Vert.	Horiz.	Vert.
1.0015	0	24.1	< 6.0	< 6.0	54.0	< 30.1	< 30.1	> 23.9	> 23.9
1.1016	0	25.3	11.3	10.1	54.0	36.6	35.4	17.4	18.6
1.2362	0	26.6	< 6.0	< 6.0	54.0	< 32.6	< 32.6	> 21.4	> 21.4
1.3762	0	27.8	< 6.0	< 6.0	54.0	< 33.8	< 33.8	> 20.2	> 20.2
1.5000	0	28.9	< 6.0	< 6.0	54.0	< 34.9	< 34.9	> 19.1	> 19.1
2.0000	0	31.9	< 6.0	< 6.0	54.0	< 37.9	< 37.9	> 16.1	> 16.1
3.0000	45.9	36.4	< 40.0	< 40.0	54.0	< 30.5	< 30.5	> 23.5	> 23.5
4.0000	45.5	39.5	< 40.0	< 40.0	54.0	< 34.0	< 34.0	> 20.0	> 20.0
5.0000	45.8	42.1	< 40.0	< 40.0	54.0	< 36.3	< 36.3	> 17.7	> 17.7
6.0000	45.9	44.6	< 40.0	< 40.0	54.0	< 38.7	< 38.7	> 15.3	> 15.3
8.0000	45.2	47.7	< 40.0	< 40.0	54.0	< 42.5	< 42.5	> 11.5	> 11.5
10.0000	40.7	49.9	< 35.0	< 35.0	54.0	< 44.2	< 44.2	> 9.8	> 9.8
12.5000	38.9	52.6	< 34.0	< 34.0	54.0	< 47.7	< 47.7	> 6.3	> 6.3

- Notes :
- 1) The spectrum was checked from 1.0 GHz to 12.5 GHz.
 - 2) The cable loss is included in the antenna factor.
 - 3) The symbol of "<" means "or less".
 - 4) The symbol of ">" means "or greater".
 - 5) A sample calculation was made at 1.00151 (GHz).

$$Af + Mr - Ag = 24.1 + 6 - 0 = 30.1 \text{ (dBuV/m)}$$

Ag = Amp. Gain

Af = Antenna Factor

Mr = Meter Reading

6) Measuring Instrument Setting :

Detector function : Peak

Resolution Bandwidth : 1 MHz

Video Bandwidth : 10 Hz

Tested by :

T. Ishii

Takashi Ishii

Testing Engineer

RADIATED EMISSION MEASUREMENT

Model No. : PCG-441L

Standard : CFR 47 FCC Rules Part 15

Category : Class B

0 Horizontal

* Vertical

