

Certification of Compliance

CFR 47 Part 15 Subpart B

Test Report File No. 05-IST-0172 **Date of Issue** April 14, 2005

Model (s)

RV4000	(Cinevision)	☐ Basic ☒ Alternated
SV294	(SENSORY SCIENCE)	☐ Basic ☒ Alternated
DF-S04	(DAEWOO)	☐ Basic ☒ Alternated
VR2940	(Go-Video)	☐ Basic ☒ Alternated
VR2945	(Go-Video)	☐ Basic ☒ Alternated

Kind of Product DVD Recorder + VCR

Applicant Daewoo Electronics Corporation.
543, Dangjung-Dong, Kunpo-City, Kyounggi-DO, Korea

Manufacturer Daewoo Electronics Corporation.
295, Gondan-dong, Kumi-city, Kyungsangbuk-do, Korea.

Test Result

☒ **Positive**

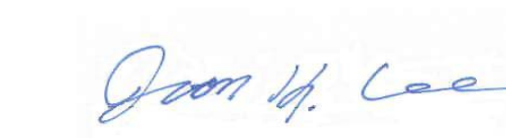
☐ **Negative**

Reviewed By

Approved By



S.J.Cho / EMC Group Manager



J.H.LEE / Chief

- Investigations requested : Measurement to the relevant clauses of F.C.C rules and regulations Part 15 Subpart B - Unintentional Radiations
- The test report with appendix consists of 30 pages.
- The test result only responds to the tested sample.
- It is not allowed to copy this report even partly without the allowance of IST EMC Laboratory.
- This equipment as for has been shown to be capable of continued compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.4 2003.



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Information of Tuners

Manufacture	Manufacture Name
Korea ALPS	TMZH2-030A
LG Innotek Co., Ltd.	TADM-H201F

Information of Loader

Manufacture	Manufacture Name
LITE-ON IT CORP.	DDW-813S

INFORMATIONS OF TEST LABORATORY

EMC LABORATORY of IST Co., Ltd. (*FCC Filing Lab*)
San 21-8, Goan-Ri, Baekam-Myun, Yongin-City
Kyonggi-Do, 449-860, Korea
TEL : +82 31 333 4093 FAX : +82 31 333 4094

ENVIRONMENTAL CONDITIONS

Temperature	17 °C
Humidity	48 %
Atmospheric pressure	1004 mbar

POWER SUPPLY SYSTEM USED

Power supply system	120Vac , 60Hz
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PRODUCT INFORMATIONS

Power requirements	120Vac , 60Hz
Power consumption	34W
Operating conditions	41°F to 95°F(5°C to 35°C) , 5% to 90%(humidity)
Mass(approx.)	13.5lbs(6.18kg)
Dimensions(approx.)	16.9X3.54X14.0 inches(430X91X354mm) (wXhXd)
Signal system	NTSC
Antenna IN / RF OUT	Antenna or CATV input,75Ω / Channel 3 or 4 (Switchable)
Signal-to-noise ratio	43dB(VCR) , More than 95dB(DVD)
Head system	4 Head Video, 2 Head Hi-Fi helical scan azimuth system
Laser system	Semiconductor laser, wavelength 650nm
Inputs	Video/Audio(RCA jack)
Outputs	Video/Audio(RCA jack), S-video, component(RCA jack)

- EMC suppression device is not used during the test.
- Please refer to user's manual.

INFORMATIONS OF MODEL NAMES

Model Name	Model description	TCB Issued Date	Applied Loader	Applied Tuner
RV4000 SV294 DF-S04 VR2940 VR2945	Basic Model	06/07/2004	BTC	LG, Alps
RV4000 SV294 DF-S04 VR2940 VR2945	Permissive II Change (Loader change)	09/02/2004	LITE-ON (DDW-451S)	LG, Alps
RV4000 SV294 DF-S04 VR2940 VR2945	Permissive II Change (Loader change)		LITE-ON (DDW-813S)	LG, Alps

SUMMARY

■ Conducted Emission

The requirements are

Minimum limit margin

Maximum limit exceeding

● MET ○ Not MET

3.1dB at 4.190MHz

Remarks : With Live phase for average detect mode
(DVD playback +VCR REC , LG Tuner)

■ Radiated Emission

The requirements are

Minimum limit margin

Maximum limit exceeding

● MET ○ Not MET

3.1dB at 346.4MHz

Remarks : At DVD playback + VCR REC , LG Tuner

☐ Output Signal Level Measurements

The requirements are

Minimum limit margin

Maximum limit exceeding

○ MET

○ Not MET

Remarks :

☐ Output Terminal Conducted Spurious Emission

The requirements are

Minimum limit margin

Maximum limit exceeding

○ MET

○ Not MET

Remarks :

☐ Transfer Switch Isolation Measurements

The requirements are

Minimum limit margin

Maximum limit exceeding

○ MET

○ Not MET

Remarks :

Begin of Test : April 11, 2005
Finish of Test : April 13, 2005

Prepared By

Note :

- ■ means the test is applicable, □ is not applicable.



I.Y.Lee / EMC Engineer

TEST CONDITIONS AND DATA

Conducted Emissions

[Applicable]

◆ Test Equipment Used

The test equipment used is calibrated in regular for every year.

Model Name	Manufacturer	Descriptions	Calibration Date	Serial Number
ESH3	Rohde & Schwarz	Test Receiver	July 15, 2004	892108/018
ESH3-Z5	Rohde & Schwarz	LISN	July 15, 2004	862770/025
ESH3-Z2	Rohde & Schwarz	Pulse Limiter	July 15, 2004	357.8810.52
PM5418	FLUKE	Pattern Generator	May 10, 2004	L0796009

◆ Auxiliary Equipment Used

Model Name	Manufacturer	Descriptions
14C5T BLU	Daewoo Electronics.	Color TV Receiver

◆ Accessories including cables

Name	Length	Port and Descriptions
RCA	1m	Audio/Video Out

◆ Environmental Conditions

Temperature	17 °C
Humidity	48 %
Atmosphere pressure	1002 mbar

◆ Test Program DVD Playback + VCR REC, VCR Playback + DVD REC,
 RF Receiving + VCR REC, RF Receiving + DVD REC

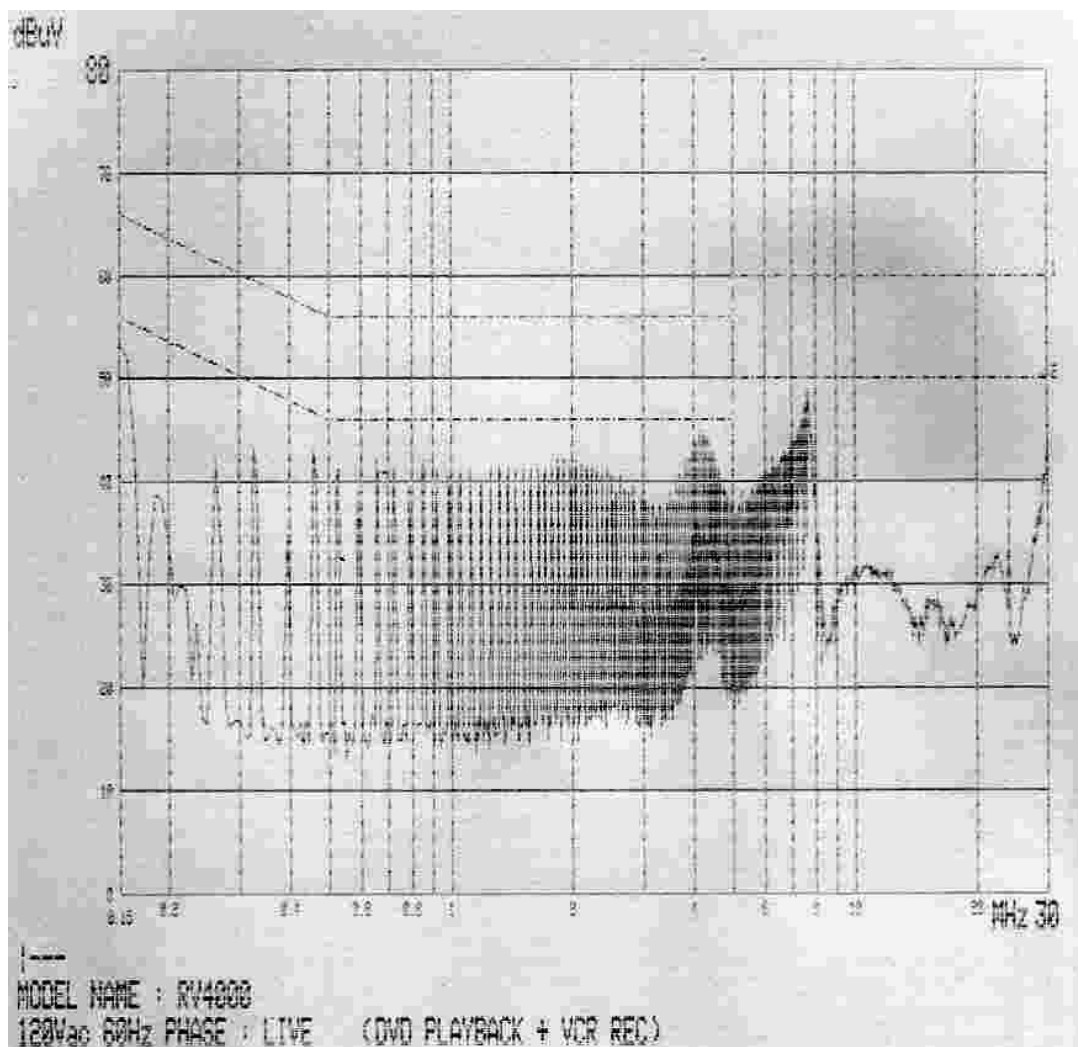
◆ Test Area Conducted Room

◆ Test Date March 13, 2005

Note :

Conducted Emissions

(Mains Terminal Disturbance Voltages)

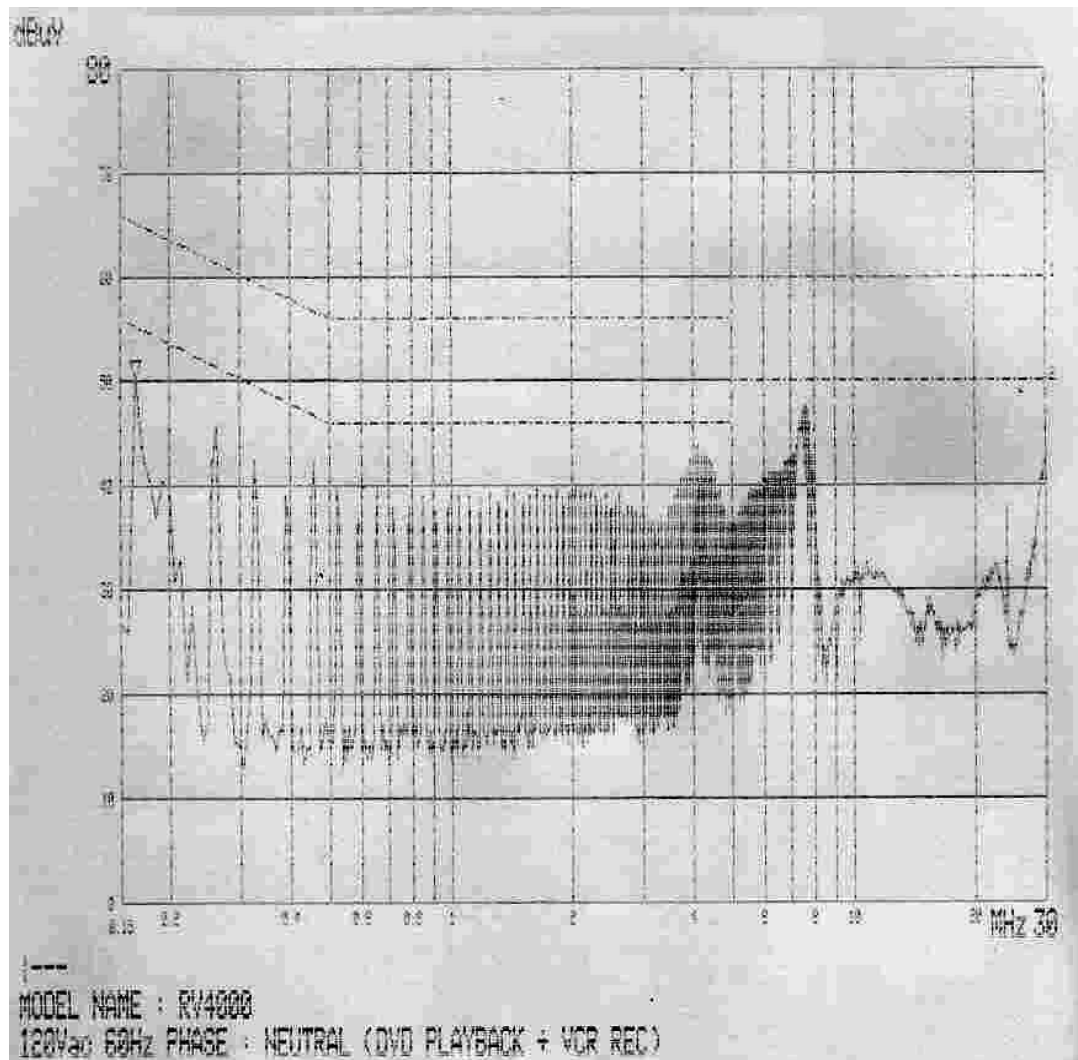


Freq. [MHz]	Measurement [dB μ V]		Limit [dB μ V]		Margin [dB]	
	Q-peak	Average	Q-peak	Average	Q-peak	Average
0.150	55.8	11.9	66.0	56.0	10.2	44.1
0.459	43.6	42.8	56.7	46.7	13.1	3.9
4.190	45.0	42.9	56.0	46.0	11.0	3.1
7.592	48.0	45.2	60.0	50.0	12.0	4.8

Note : LG Tuner

Conducted Emissions

(Mains Terminal Disturbance Voltages)

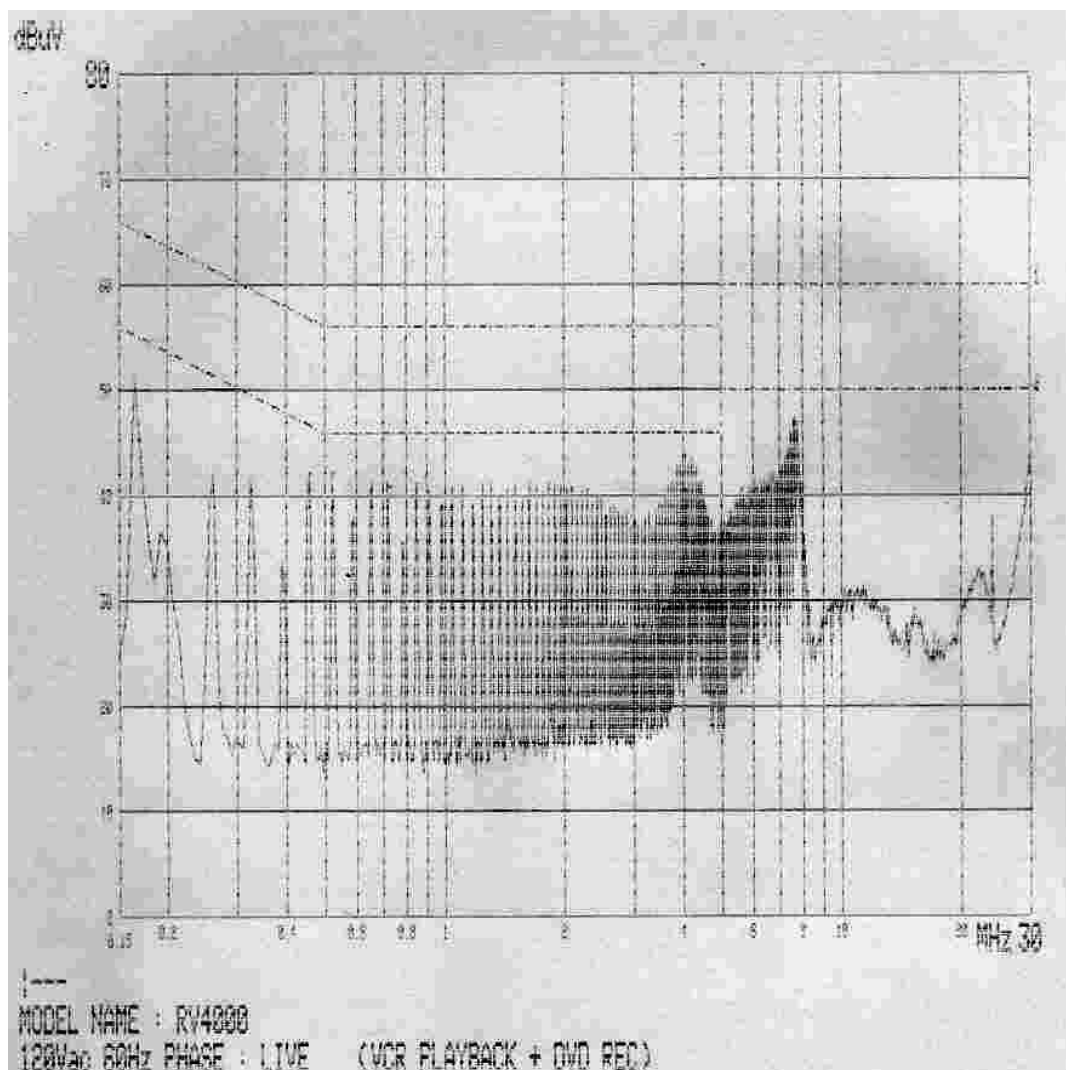


Freq. [MHz]	Measurement [dB μ V]		Limit [dB μ V]		Margin [dB]	
	Q-peak	Average	Q-peak	Average	Q-peak	Average
0.150	55.7	11.7	66.0	56.0	10.3	44.3
0.457	43.0	43.0	56.7	46.7	13.7	3.7
4.178	44.0	42.2	56.0	46.0	12.0	3.8
7.637	47.7	44.5	60.0	50.0	12.3	5.5

Note : LG Tuner

Conducted Emissions

(Mains Terminal Disturbance Voltages)

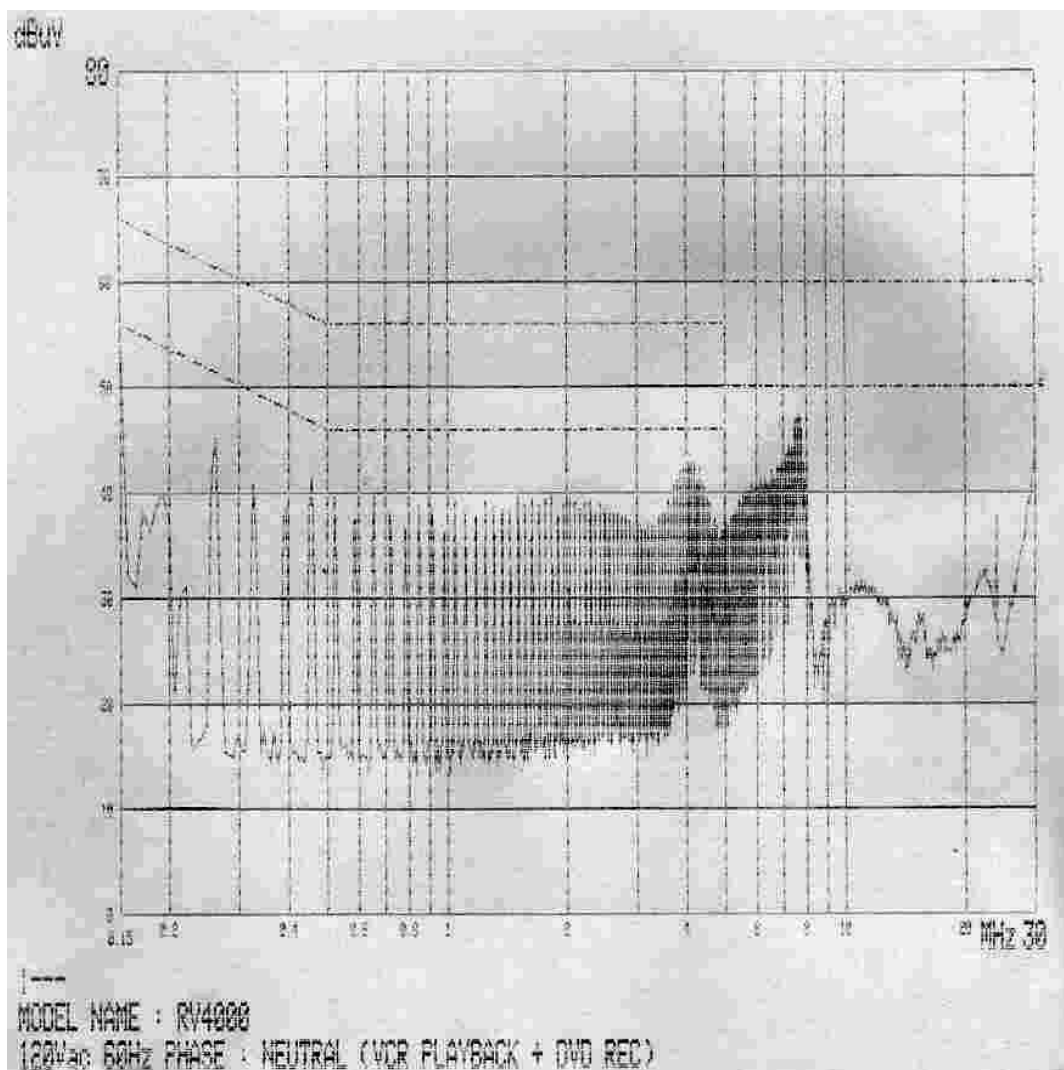


Freq. [MHz]	Measurement [dB μ V]		Limit [dB μ V]		Margin [dB]	
	Q-peak	Average	Q-peak	Average	Q-peak	Average
0.157	54.9	11.6	65.6	55.6	10.7	44.0
0.457	43.3	42.3	56.7	46.7	13.4	4.4
4.047	44.5	42.5	56.0	46.0	11.5	3.5
7.637	47.7	44.4	60.0	50.0	12.3	5.6

Note : LG Tuner

Conducted Emissions

(Mains Terminal Disturbance Voltages)

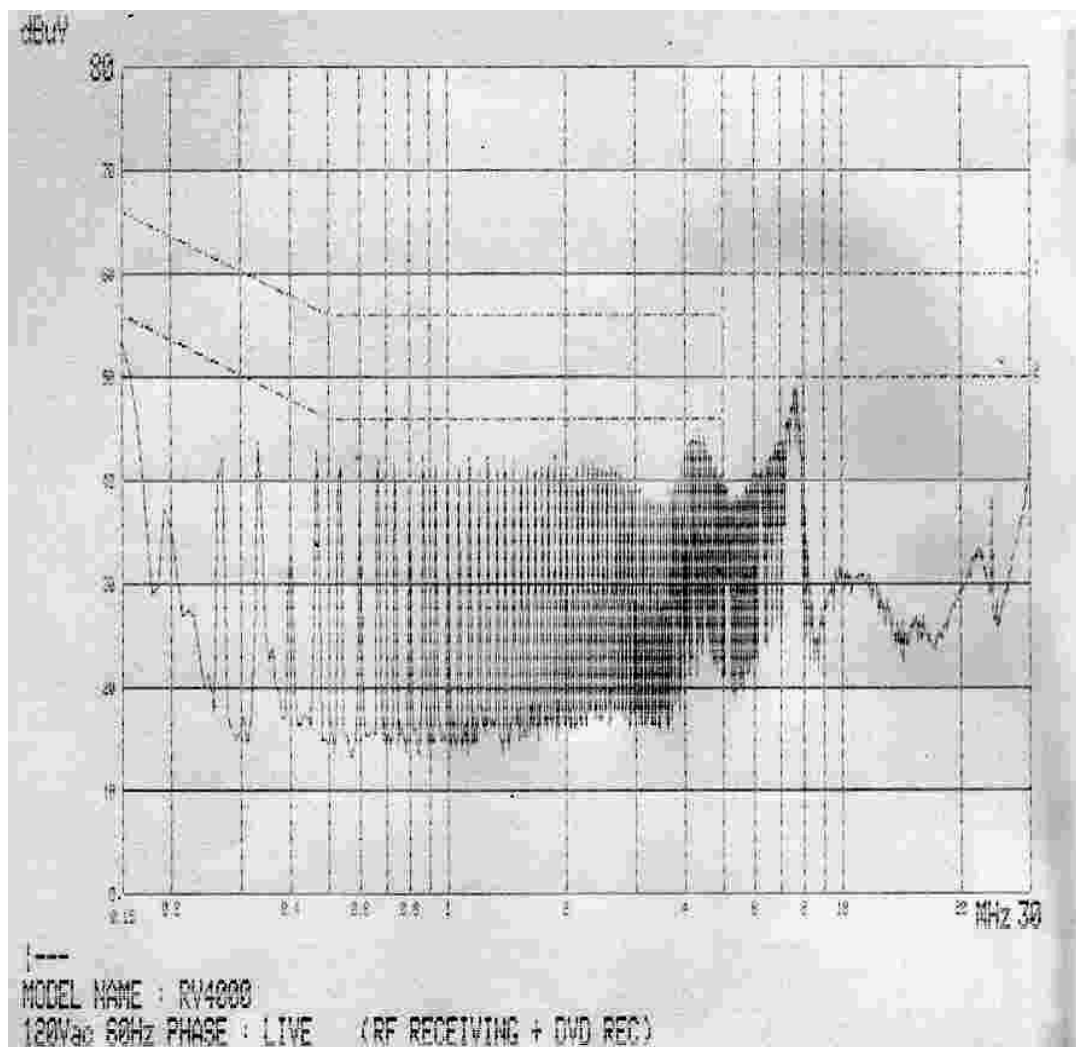


Freq. [MHz]	Measurement [dB μ V]		Limit [dB μ V]		Margin [dB]	
	Q-peak	Average	Q-peak	Average	Q-peak	Average
0.150	55.5	11.6	66.0	56.0	10.5	44.4
0.457	42.7	42.8	56.7	46.7	14.0	3.9
4.116	43.7	41.2	56.0	46.0	12.3	4.8
7.643	47.7	44.3	60.0	50.0	12.3	5.7

Note : LG Tuner

Conducted Emissions

(Mains Terminal Disturbance Voltages)

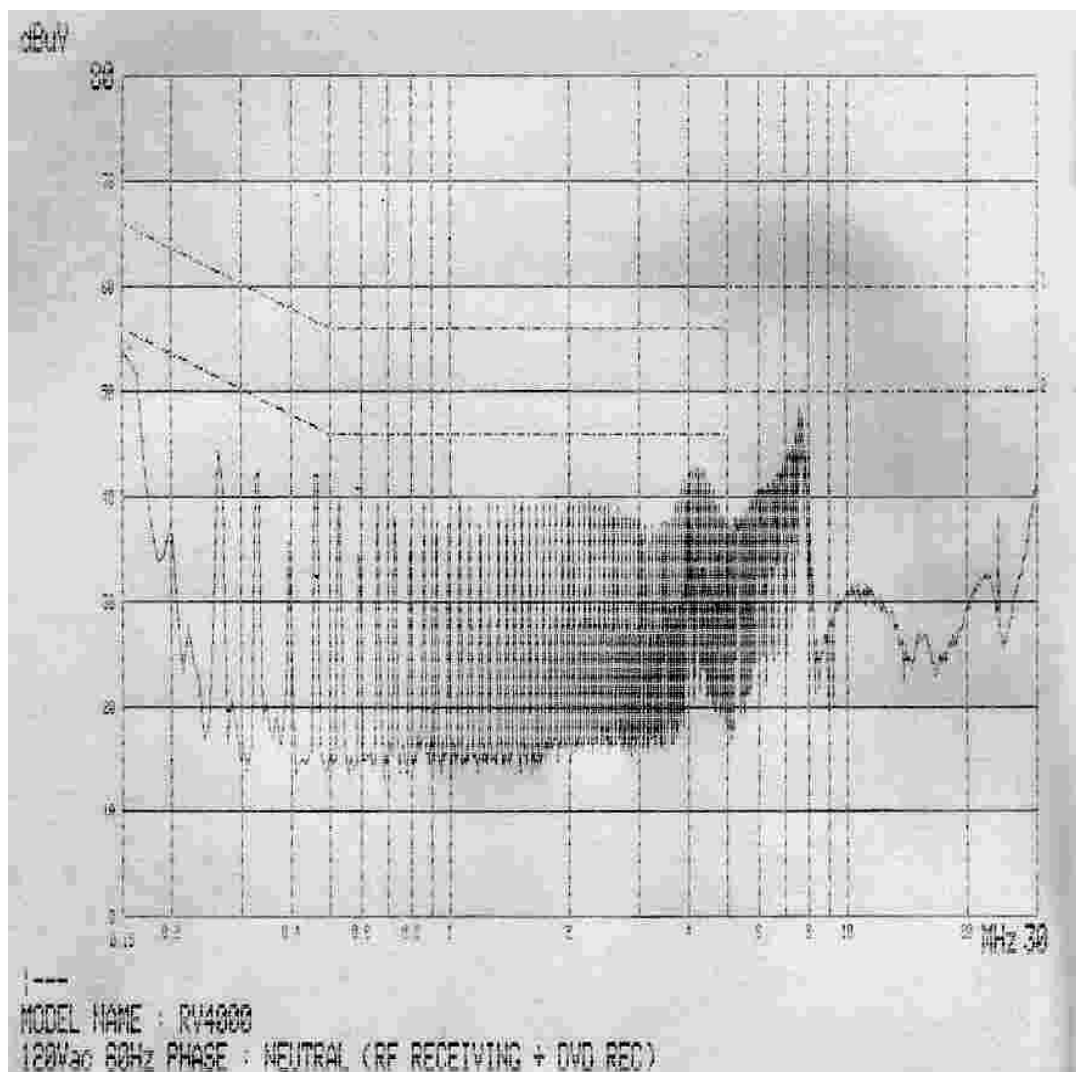


Freq. [MHz]	Measurement [dB μ V]		Limit [dB μ V]		Margin [dB]	
	Q-peak	Average	Q-peak	Average	Q-peak	Average
0.150	55.4	11.9	66.0	56.0	10.6	44.1
0.859	42.4	41.9	56.0	46.0	13.6	4.1
4.239	44.9	42.3	56.0	46.0	11.1	3.7
7.609	48.8	44.8	60.0	50.0	11.2	5.2

Note : LG Tuner

Conducted Emissions

(Mains Terminal Disturbance Voltages)

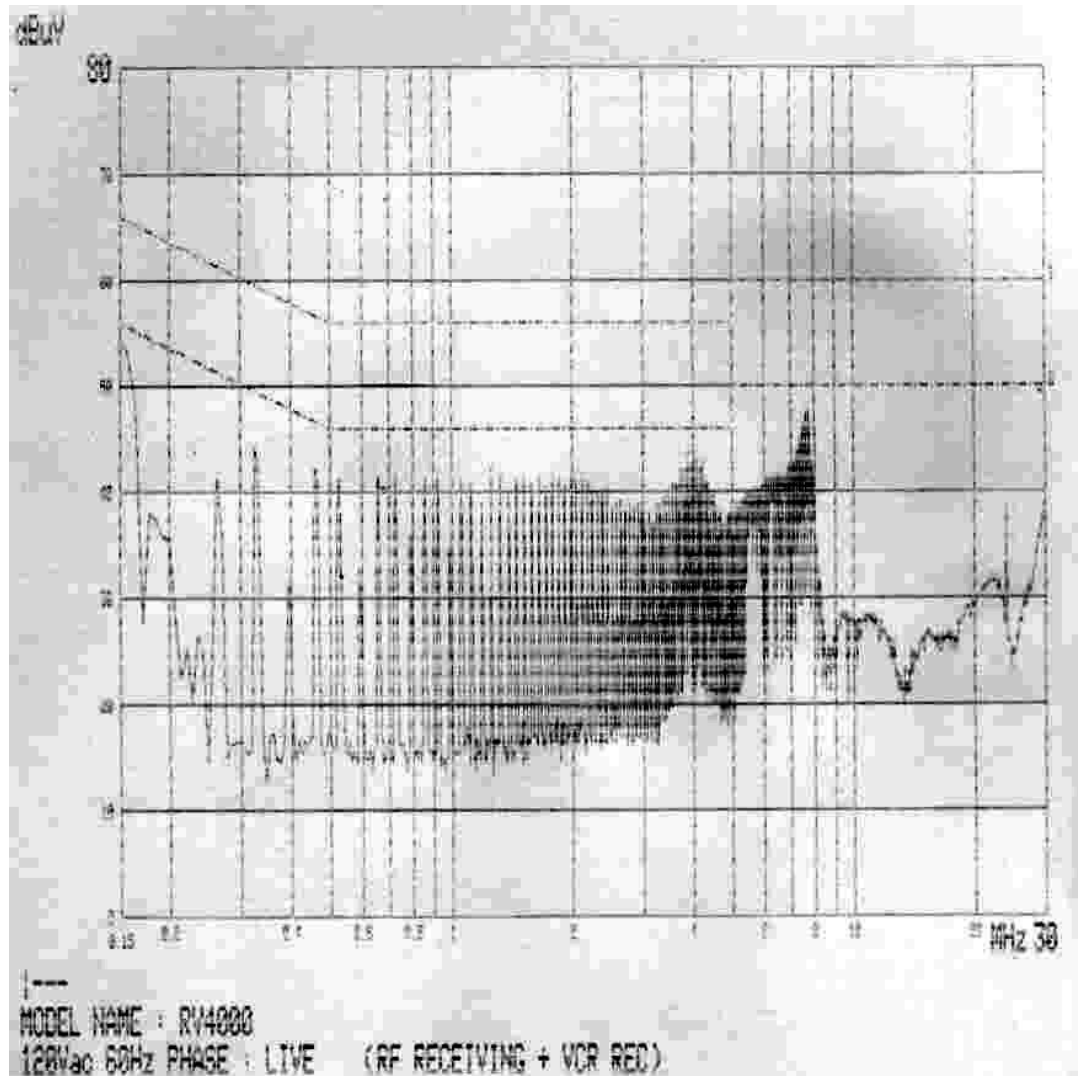


Freq. [MHz]	Measurement [dB μ V]		Limit [dB μ V]		Margin [dB]	
	Q-peak	Average	Q-peak	Average	Q-peak	Average
0.153	55.4	11.7	65.8	55.8	10.4	44.1
0.461	42.6	42.6	56.7	46.7	14.1	4.1
4.087	43.5	41.4	56.0	46.0	12.5	4.6
7.712	47.7	43.3	60.0	50.0	12.3	6.7

Note : LG Tuner

Conducted Emissions

(Mains Terminal Disturbance Voltages)



Freq. [MHz]	Measurement [dB μ V]		Limit [dB μ V]		Margin [dB]	
	Q-peak	Average	Q-peak	Average	Q-peak	Average
0.150	55.6	11.9	66.0	56.0	10.4	44.1
1.253	42.4	41.5	56.0	46.0	13.6	4.5
4.089	44.0	42.1	56.0	46.0	12.0	3.9
7.649	48.0	43.1	60.0	50.0	12.0	6.9

Note : LG Tuner