EMC Test Report

According to FCC Part 15 Subpart B

Project No.		**LBE052722**
Equipment under Test		
	Applicant	Samsung Electronics Co., Ltd
	Address	416 Maetan3-Dong,Yeongtong-Gu,Suwon-Si,Gyeonggi-Do, Korea,443-742
	Product Name	**DVD PLAYER / VIDEO CASSETTE RECORDER**
	Model Name	**SLV-D370P**
	Manufacturer	Samsung Electronics Co., Ltd
	Brand Name	SONY
	Broadcasting System	NTSC
	Variant Model	See Page 3
FCC ID		**A3LSLVD370P**
Date of Test		November 22 ~ 25 , 2005
Issued Date		December 5, 2005

	Name/Position	Signature
Tested by	Young Jin, Kim Test Engineer	
Reviewed by	No Cheon, Park Manager of EMC Lab.	N. C. Park
Authorized by	Seung Kyu, Cha Chief of EMC Lab.	S. K. Cha

1. This test reports does not constitute an endorsement by NIST/NVLAP or U.S Government.
2. This test report is to certify that the tested device properly complies with the requirements of FCC Rules and Regulations Part 15 Subpart B Unintentional Radiators.
   All tests necessary to show compliance to the requirements were and these results met the specifications requirement.

This laboratory is registered by the NIST/NVLAP, U.S.A.
The test reported herein have been performed in accordance with its terms of registration.

NVLAP LAB CODE 200623-0

3. FCC filing Registration Number : 873282

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1. General Information

1.1 Basic Information related Product

Applicant	Samsung Electronics Co., Ltd
Model name	SLV-D370P
Applicant Address	416 Maetan3- Dong, Yeongtong-Gu, Suwon-Si, Gyeonggi-Do, Korea, 443-742
Contact Person	Woo Sung, CHO
Kind of product	DVD PLAYER / VIDEO CASSETTE RECORDER
Valiant list	SLV-D271P

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1.2 Detail Information related Product

Specification

Specifications

System

Laser
Semiconductor laser
Format
VHS NTSC standard
Video recording system
Rotary head helical scanning FM system
Video heads
Double azimuth four heads
Video signal
NTSC color, EIA standards
Tape speed
SP: 33.35 mm/s (1 3/8 inches/s)
EP: 11.12 mm/s (7/16 inches/s)
LP: 16.67 mm/s (11/16 inches/s), playback only
Maximum recording/playback time
8 hrs. in EP mode (with T-160 tape)
Rewind time
Approx. 1 min (with T-120 tape)

Tuner section

Channel coverage
VHF 2 to 13
UHF 14 to 69
CATV A-8 to A-1, A to W, W+1 to W+84
Antenna
75-ohm antenna terminal for VHF/UHF

Inputs and outputs

LINE IN 1 and LINE-2 IN
VIDEO IN, phono jack (1 each)
Input signal: 1 Vp-p, 75 ohms, unbalanced, sync negative
AUDIO IN, phono jacks (2 each)
Input level: 327 mVrms
Input impedance: more than 47 kilohms
LINE OUT
VIDEO OUT, phono jack (1)
Output signal: 1 Vp-p, 75 ohms, unbalanced, sync negative
AUDIO OUT, phono jacks (2)
Standard output: 327 mVrms
Load impedance: 47 kilohms
Output impedance: less than 10 kilohms
DIGITAL OUT
COAXIAL, phono jack
Output signal: 0.5 Vp-p, 75 ohms
COMPONENT VIDEO OUT (Y, Pb, Pr)
Phono jack
Y: 1.0 Vp-p/Pb, Pr: 0.7 Vp-p, 75 ohms
S-VIDEO OUT
4-pin, mini-DIN jack
Y: 1.0 Vp-p, unbalanced, sync negative
C: 0.286 Vp-p, load impedance 75 ohms

Timer section

Clock
Quartz locked
Timer indication
12-hour cycle
Timer setting
8 programs (max.)

General

Power requirements
120 V AC, 60 Hz
Power consumption
25 W
Power back-up
Back-up duration: 0 min
Operating temperature
0°C to 45°C (32°F to 113°F)
Storage temperature
–20°C to 60°C (–4°F to 140°F)
Operating humidity
25% to 80%
Dimensions including projecting parts and controls (w/h/d)
Approx. 430 × 85 × 287 mm
(Approx. 17 × 3 3/8 × 11 3/8 inches)
Mass
Approx. 3.6 kg (Approx. 7.9 lbs)

Supplied accessories

Remote commander (1)
Size AA (R6) batteries (2)
75-ohm coaxial cable with F-type connectors (1)

Design and specifications are subject to change without notice.

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1.3 Operating Mode and Condition

The EUT was tested in the following operating modes(at both channel 3 and 4) for the tests mention in this report :

1) **DVD Play**
: In this test mode, a DVD recorded with NTSC signal was played on the EUT.

2) **VCR Recording (NTSC Signal)**
: A NTSC signal(Color bar) was supplied at ch.69(801.25MHz) through the ant. Input connector

3) **VCR Recording (1V VITS Signal)**
: A 1V peak-to-peak VITS signal was supplied through the video input connector for recording.

4) **VCR Recording (5V VITS Signal)**
: A 5V peak-to-peak VITS signal was supplied through the video input connector for recording.

5) **VCR Play**
: In this test mode, a video tape recorded with NTSC signal was played on the EUT.

* Note: The NTSC TV signal input record mode is not applicable to the antenna transfer switch test.

1.4 Equipment Modifications

No equipment modifications were required.

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1.5 Test Configuration

Used EUT and Peripherals

Seq	Device	Model Name	Serial #	Maker	Note
A	**DVD PLAYER / VIDEO CASSETTE RECORDER**	SLV-D370P	-	SAMSUNG	EUT
B	Remote Controller	-	-	SAMSUNG	EUT

Used Cable Description

	Connect Cable	Length [m]	Shielded [Y/N]	Remark
1	AC Power Cable	1.5	N	to the mains
2	RF In Cable	1.5	Y	To the S/G
3	AV Out Cable	1.2	N	Terminated video : 75 ohm Audio Out : 10k ohm
4	AV In 1 Cable	1.2	N	Terminated video : 75 ohm Audio In : 1k ohm
5	RF Out Cable	1.2	Y	75 ohm Terminated
6	Component Video Out Cable	1.2	N	Terminated video : 75 ohm Audio Out : 10k ohm
7	S-Video Out	1.5	N	Terminated
8	Digital Audio Out	1.5	N	Terminated
9	AV In 2 Cable	1.2	N	Terminated video : 75 ohm Audio In : 1k ohm

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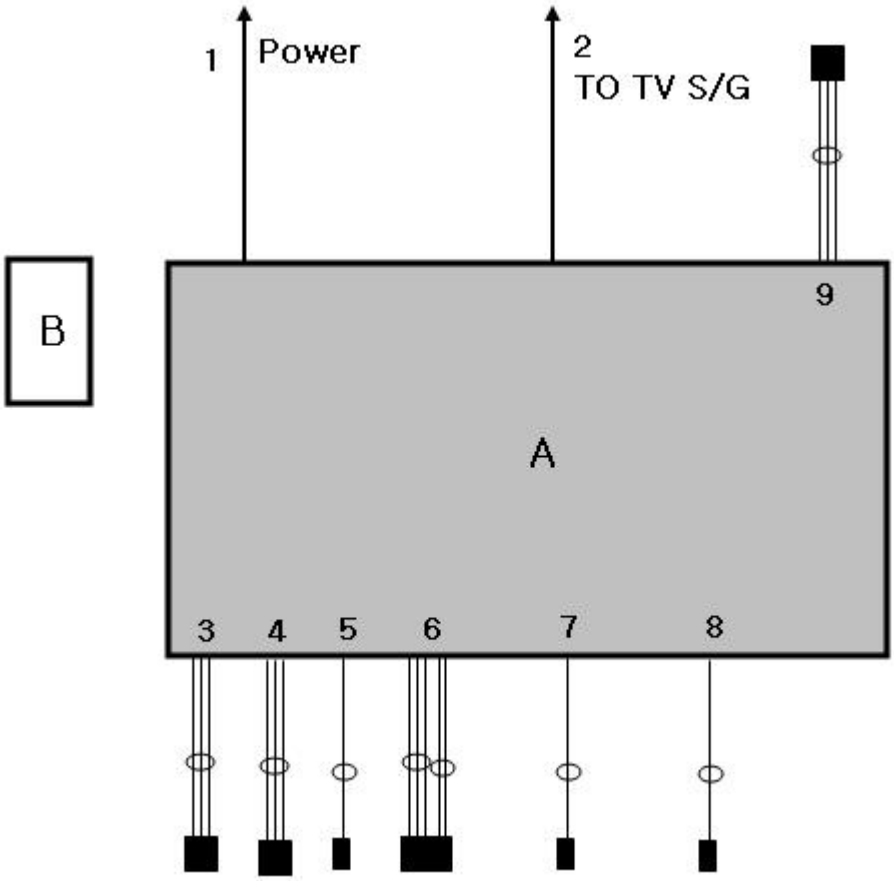
Block Diagram



1.6 Applied Standards

List

Applied Standards	Test Procedure
FCC Part15 Subpart B	ANSI C63.4 : 2003

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1.7 Test Facility

General Information

The sites are constructed in conformance with the requirements of ANSI C63.4 and CISPR 16-1, 16-2.

This EMC Testing Lab. is accredited by Korea Laboratory Accreditation Scheme(KOLAS) which signed the International Laboratory Accreditation Cooperation (ILAC) Mutual Recognition Arrangement (MRA) for the above test item(s) and test method(s).

This Lab. is operated as testing laboratory in accordance with the requirements of ISO/IEC 17025:1998.

Accreditation and Listing

Uncertainty

(According to NAMAS Pub.NIS81)

Test Item	Expanded Uncertainty
Radiated Emission	(Hor) ± 4.00dB (Ver) ± 4.40dB
Conducted Emission	± 3.30dB

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2. Summary of Test Results

Result : PASS

The equipment under test(EUT) has been found to comply with the applied standards.

Test Name		Applied Standard	Result
Electromagnetic Emission Test			
3.1	Conducted Emission	FCC Part15 Subpart B	Complied
3.2	Radiated Emission	FCC Part15 Subpart B	Complied
3.3	Output Signal Level	FCC Part15 Subpart B	Complied
3.4	Output Terminal Conducted Spurious Emission	FCC Part15 Subpart B	Complied
3.5	Ant. Transfer Switch	FCC Part15 Subpart B	Complied

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3. Description of Individual Tests

3.1 Conducted Emission

Test Information		
	Test Engineer	Young Jin, Kim
	Test Date	November 25, 2005
	Climate Condition	Ambient Temperature : 22℃ Relative Humidity : 40%
	Test Place	Shield Room #1

Test Equipments

Equipment	Modal Name	Manufacturer	Serial No.	Calibration	
				Next Date	Interval
Test Software	EMC 32	R&S	None	N/A	N/A
Field strength meter	ESCI	R&S	100136	2006-04-17	12
L.I.S.N	ENV216	R&S	100116	2006-09-08	12
L.I.S.N	ENV216	R&S	100107	2006-08-18	12
TV Signal Generator	PM5418-TDSI	PHILIPS	LO612437	2006-09-21	12

EUT Test Setup

The EUT was set up as per normal use on a wooden table 0.4m from a vertical ground reference plane, at least 0.8m from other conduction surfaces and 0.8m from the LISN.

See photo..

Test Result

Measurement Results	Pass The measured emissions of the EUT have found to be below the specified limits.

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Test Data

■ Operating Mode : DVD PLAY_RF OUT CH03

[Graph and Data]

SAMSUNG ELECTRONICS EMC Report

Test Information

EUT Name:	SLV-D370P
Serial Number:	
Test Description:	
Operating Conditions:	DVD PLAY
Operator Name:	
Comment:	RF OUT CH3

Hardware Setup: Voltage with 2-Line-LISN - [EMI conducted]

Subrange 1

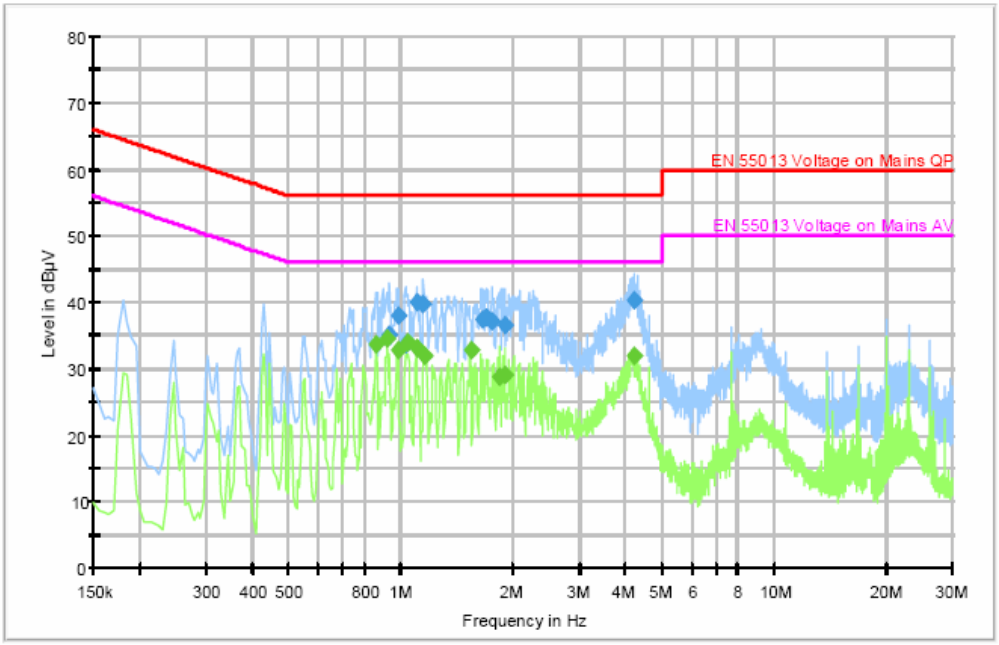
Frequency Range:	150kHz - 30MHz
Receiver:	ESCI 3
Transducer:	ENV216 / Receiver-2-Line-LISN ENV216

Scan Setup: EN55013_2-Line-LISN fin [EMI conducted]

Hardware Setup:	Voltage with 2-Line-LISN
Level Unit:	dBµV

Subrange	Detectors	IF Bandwidth	Meas. Time	Receiver
150kHz - 30MHz	QuasiPeak; Average	9kHz	0.1s	ESCI 3

EN55013 with 2-Line-LISN



Final Measurement Detector 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line
0.930500	35.0	100.000	9.000	Off	L1
0.984500	38.0	100.000	9.000	Off	L1
1.030500	33.7	100.000	9.000	Off	N
1.105500	39.9	100.000	9.000	Off	L1
1.150500	39.8	100.000	9.000	Off	L1
1.650500	37.4	100.000	9.000	Off	N
1.700500	37.7	100.000	9.000	Off	N
1.750500	37.0	100.000	9.000	Off	N
1.900500	36.6	100.000	9.000	Off	N
4.220500	40.2	100.000	9.000	Off	N

(continuation of the "Final Measurement Detector 1" table from column 6 ...)

Frequency (MHz)	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.930500	9.7	21.0	56.0	
0.984500	9.7	18.0	56.0	
1.030500	9.7	22.3	56.0	
1.105500	9.7	16.1	56.0	
1.150500	9.7	16.2	56.0	
1.650500	9.7	18.6	56.0	
1.700500	9.7	18.3	56.0	
1.750500	9.7	19.0	56.0	
1.900500	9.7	19.4	56.0	
4.220500	9.8	15.8	56.0	

Final Measurement Detector 2

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line
0.860500	33.7	100.000	9.000	Off	L1
0.920500	34.6	100.000	9.000	Off	L1
0.980500	32.9	100.000	9.000	Off	L1
1.040500	33.8	100.000	9.000	Off	L1
1.105500	33.2	100.000	9.000	Off	L1
1.159500	31.9	100.000	9.000	Off	N
1.535500	32.9	100.000	9.000	Off	L1
1.845500	28.7	100.000	9.000	Off	N
1.900500	28.9	100.000	9.000	Off	N
4.220500	32.1	100.000	9.000	Off	N

(continuation of the "Final Measurement Detector 2" table from column 6 ...)

Frequency (MHz)	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.860500	9.7	12.3	46.0	
0.920500	9.7	11.4	46.0	
0.980500	9.7	13.1	46.0	
1.040500	9.7	12.2	46.0	
1.105500	9.7	12.8	46.0	
1.159500	9.7	14.1	46.0	
1.535500	9.7	13.1	46.0	
1.845500	9.7	17.3	46.0	
1.900500	9.7	17.1	46.0	
4.220500	9.8	13.9	46.0	

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■ Operating Mode : DVD PLAY_RF OUT CH04

[Graph and Data]

SAMSUNG ELECTRONICS EMC Report

Test Information

EUT Name:	SLV-D370P
Serial Number:	
Test Description:	
Operating Conditions:	DVD PLAY
Operator Name:	
Comment:	RF OUT CH4

Hardware Setup: Voltage with 2-Line-LISN - [EMI conducted]

Subrange 1

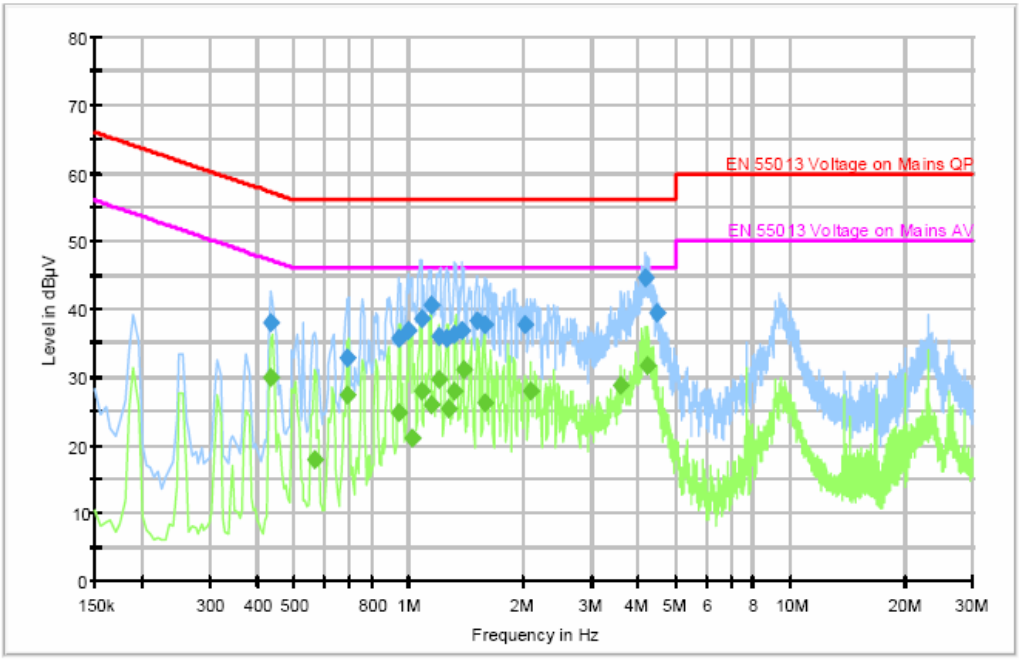
Frequency Range:	150kHz - 30MHz
Receiver:	ESCI 3
Transducer:	ENV216 / Receiver-2-Line-LISN ENV216

Scan Setup: EN55013_2-Line-LISN fin [EMI conducted]

Hardware Setup:	Voltage with 2-Line-LISN
Level Unit:	dBµV

Subrange	Detectors	IF Bandwidth	Meas. Time	Receiver
150kHz - 30MHz	QuasiPeak; Average	9kHz	0.1s	ESCI 3

EN55013 with 2-Line-LISN



Final Measurement Detector 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line
0.435500	37.9	100.000	9.000	Off	N
0.690500	32.7	100.000	9.000	Off	N
0.944500	35.7	100.000	9.000	Off	L1
0.999500	36.8	100.000	9.000	Off	N
1.074500	38.5	100.000	9.000	Off	L1
1.145500	40.7	100.000	9.000	Off	N
1.200500	35.9	100.000	9.000	Off	L1
1.255500	35.7	100.000	9.000	Off	N
1.315500	36.3	100.000	9.000	Off	N
1.375500	36.8	100.000	9.000	Off	N
1.509500	38.3	100.000	9.000	Off	N
1.575500	37.8	100.000	9.000	Off	N
2.025500	37.6	100.000	9.000	Off	N
4.179500	44.6	100.000	9.000	Off	N
4.455500	39.3	100.000	9.000	Off	N

(continuation of the "Final Measurement Detector 1" table from column 6 ...)

Frequency (MHz)	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.435500	9.6	19.3	57.1	
0.690500	9.6	23.3	56.0	
0.944500	9.7	20.3	56.0	
0.999500	9.7	19.2	56.0	
1.074500	9.7	17.5	56.0	
1.145500	9.7	15.3	56.0	
1.200500	9.7	20.1	56.0	
1.255500	9.7	20.3	56.0	
1.315500	9.7	19.7	56.0	
1.375500	9.7	19.2	56.0	
1.509500	9.7	17.7	56.0	
1.575500	9.7	18.2	56.0	
2.025500	9.7	18.4	56.0	
4.179500	9.8	11.4	56.0	
4.455500	9.8	16.7	56.0	

Final Measurement Detector 2

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line
0.435500	30.0	100.000	9.000	Off	N
0.565500	17.7	100.000	9.000	Off	N
0.690500	27.2	100.000	9.000	Off	N
0.940500	24.8	100.000	9.000	Off	L1
1.014500	21.0	100.000	9.000	Off	L1
1.074500	27.9	100.000	9.000	Off	N
1.144500	26.0	100.000	9.000	Off	N
1.204500	29.8	100.000	9.000	Off	N
1.269500	25.2	100.000	9.000	Off	L1
1.320500	27.8	100.000	9.000	Off	N
1.390500	31.0	100.000	9.000	Off	N
1.575500	26.1	100.000	9.000	Off	N
2.085500	27.8	100.000	9.000	Off	N
3.595500	28.9	100.000	9.000	Off	L1
4.230500	31.7	100.000	9.000	Off	L1

(continuation of the "Final Measurement Detector 2" table from column 6 ...)

Frequency (MHz)	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.435500	9.6	17.2	47.1	
0.565500	9.6	28.3	46.0	
0.690500	9.6	18.8	46.0	
0.940500	9.7	21.2	46.0	
1.014500	9.7	25.0	46.0	
1.074500	9.7	18.1	46.0	
1.144500	9.7	20.0	46.0	
1.204500	9.7	16.2	46.0	
1.269500	9.7	20.8	46.0	
1.320500	9.7	18.2	46.0	
1.390500	9.7	15.0	46.0	
1.575500	9.7	19.9	46.0	
2.085500	9.7	18.2	46.0	
3.595500	9.7	17.1	46.0	
4.230500	9.7	14.3	46.0	

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■ Operating Mode : VCR REC(NTSC)_RF OUT CH03

[Graph and Data]

SAMSUNG ELECTRONICS EMC Report

Test Information

EUT Name:	SLV-D370P
Serial Number:	
Test Description:	
Operating Conditions:	VCR Recording (NTSC)
Operator Name:	
Comment:	RF OUT CH3

Hardware Setup: Voltage with 2-Line-LISN - [EMI conducted]

Subrange 1

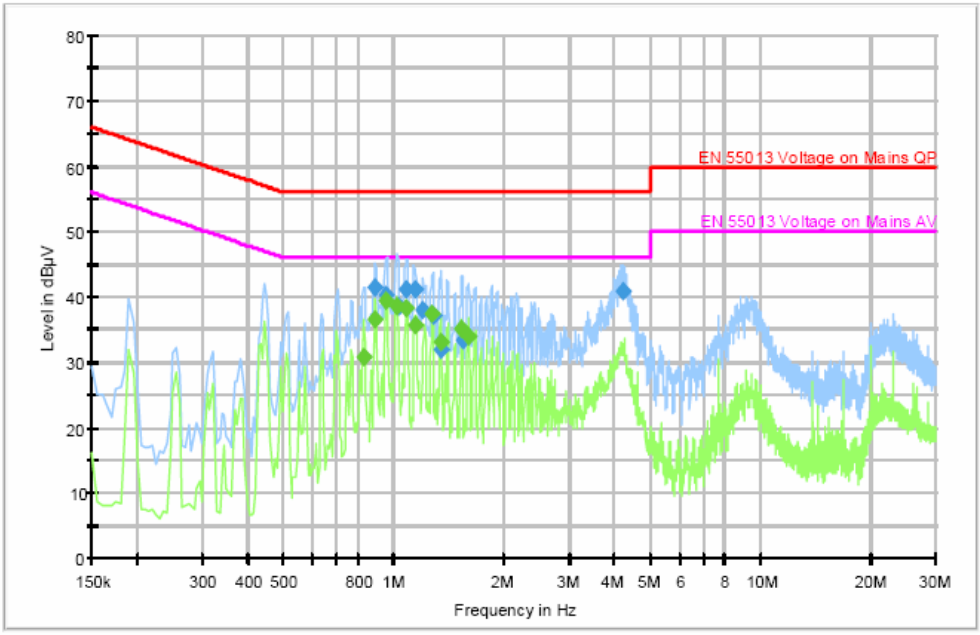
Frequency Range:	150kHz - 30MHz
Receiver:	ESCI 3
Transducer:	ENV216 / Receiver-2-Line-LISN ENV216

Scan Setup: EN55013_2-Line-LISN fin [EMI conducted]

Hardware Setup:	Voltage with 2-Line-LISN
Level Unit:	dBµV

Subrange	Detectors	IF Bandwidth	Meas. Time	Receiver
150kHz - 30MHz	QuasiPeak; Average	9kHz	0.1s	ESCI 3

EN55013 with 2-Line-LISN



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Final Measurement Detector 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line
0.885500	41.4	100.000	9.000	Off	L1
0.955500	40.4	100.000	9.000	Off	N
1.025500	38.5	100.000	9.000	Off	N
1.085500	41.2	100.000	9.000	Off	N
1.139500	41.1	100.000	9.000	Off	L1
1.200500	38.0	100.000	9.000	Off	L1
1.280500	37.3	100.000	9.000	Off	N
1.345500	31.8	100.000	9.000	Off	N
1.535500	33.4	100.000	9.000	Off	N
4.225500	41.0	100.000	9.000	Off	N

(continuation of the "Final Measurement Detector 1" table from column 6 ...)

Frequency (MHz)	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.885500	9.7	14.6	56.0	
0.955500	9.6	15.6	56.0	
1.025500	9.7	17.5	56.0	
1.085500	9.7	14.8	56.0	
1.139500	9.7	14.9	56.0	
1.200500	9.7	18.0	56.0	
1.280500	9.7	18.7	56.0	
1.345500	9.7	24.2	56.0	
1.535500	9.7	22.6	56.0	
4.225500	9.8	15.0	56.0	

Final Measurement Detector 2

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line
0.829500	30.8	100.000	9.000	Off	L1
0.890500	36.6	100.000	9.000	Off	L1
0.955500	39.4	100.000	9.000	Off	L1
1.015500	38.5	100.000	9.000	Off	L1
1.080500	38.3	100.000	9.000	Off	L1
1.145500	35.8	100.000	9.000	Off	N
1.275500	37.3	100.000	9.000	Off	N
1.340500	33.0	100.000	9.000	Off	N
1.530500	35.0	100.000	9.000	Off	N
1.595500	33.9	100.000	9.000	Off	N

(continuation of the "Final Measurement Detector 2" table from column 6 ...)

Frequency (MHz)	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.829500	9.7	15.2	46.0	
0.890500	9.7	9.4	46.0	
0.955500	9.7	6.6	46.0	
1.015500	9.7	7.5	46.0	
1.080500	9.7	7.7	46.0	
1.145500	9.7	10.2	46.0	
1.275500	9.7	8.7	46.0	
1.340500	9.7	13.0	46.0	
1.530500	9.7	11.0	46.0	
1.595500	9.7	12.1	46.0	

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■ Operating Mode : VCR REC(NTSC)_RF OUT CH04

[Graph and Data]

SAMSUNG ELECTRONICS EMC Report

Test Information

EUT Name:	SLV-D370P
Serial Number:	
Test Description:	
Operating Conditions:	VCR Recording (NTSC)
Operator Name:	
Comment:	RF OUT CH4

Hardware Setup: Voltage with 2-Line-LISN - [EMI conducted]

Subrange 1

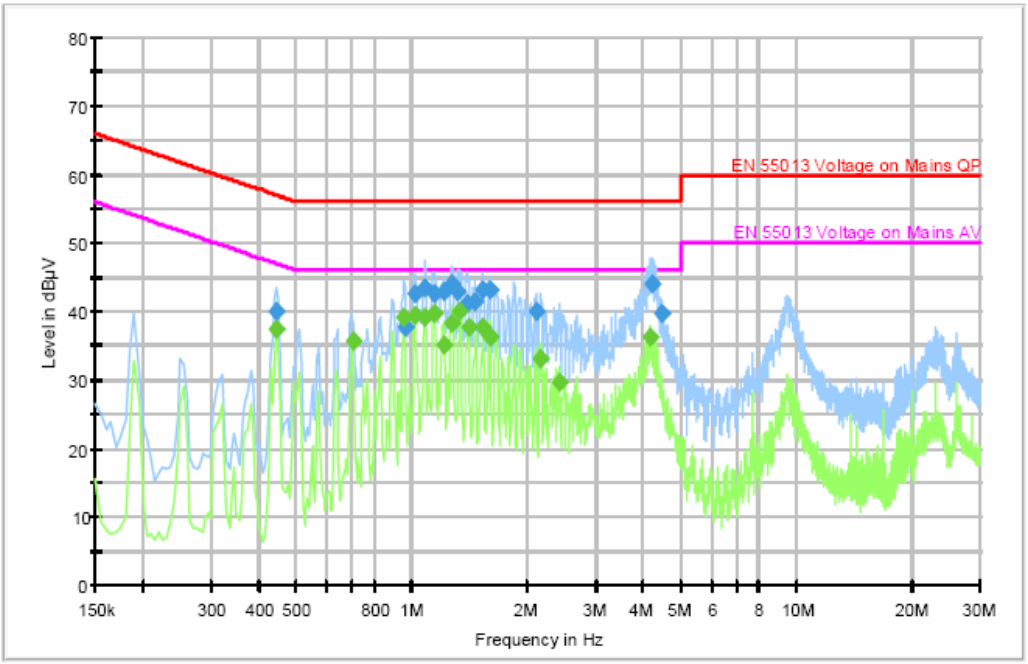
Frequency Range:	150kHz - 30MHz
Receiver:	ESCI 3
Transducer:	ENV216 / Receiver-2-Line-LISN ENV216

Scan Setup: EN55013_2-Line-LISN fin [EMI conducted]

Hardware Setup:	Voltage with 2-Line-LISN
Level Unit:	dBµV

Subrange	Detectors	IF Bandwidth	Meas. Time	Receiver
150kHz - 30MHz	QuasiPeak; Average	9kHz	0.1s	ESCI 3

EN55013 with 2-Line-LISN



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Final Measurement Detector 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line
0.445500	40.1	100.000	9.000	Off	N
0.959500	37.8	100.000	9.000	Off	L1
1.015500	42.7	100.000	9.000	Off	L1
1.075500	43.6	100.000	9.000	Off	L1
1.150500	42.6	100.000	9.000	Off	N
1.210500	42.9	100.000	9.000	Off	N
1.270500	43.9	100.000	9.000	Off	N
1.320500	42.9	100.000	9.000	Off	L1
1.389500	41.1	100.000	9.000	Off	L1
1.460500	41.3	100.000	9.000	Off	N
1.534500	43.1	100.000	9.000	Off	N
1.595500	43.1	100.000	9.000	Off	N
2.109500	40.0	100.000	9.000	Off	N
4.239500	43.9	100.000	9.000	Off	N
4.459500	39.6	100.000	9.000	Off	N

(continuation of the "Final Measurement Detector 1" table from column 6 ...)

Frequency (MHz)	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.445500	9.6	16.9	57.0	
0.959500	9.7	18.2	56.0	
1.015500	9.7	13.3	56.0	
1.075500	9.7	12.4	56.0	
1.150500	9.7	13.4	56.0	
1.210500	9.7	13.1	56.0	
1.270500	9.7	12.1	56.0	
1.320500	9.7	13.1	56.0	
1.389500	9.7	14.9	56.0	
1.460500	9.7	14.7	56.0	
1.534500	9.7	12.9	56.0	
1.595500	9.7	12.9	56.0	
2.109500	9.7	16.0	56.0	
4.239500	9.8	12.1	56.0	
4.459500	9.8	16.4	56.0	

Final Measurement Detector 2

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line
0.445500	37.5	100.000	9.000	Off	N
0.700500	35.6	100.000	9.000	Off	N
0.950500	39.2	100.000	9.000	Off	L1
1.015500	39.4	100.000	9.000	Off	L1
1.080500	39.0	100.000	9.000	Off	N
1.145500	39.8	100.000	9.000	Off	N
1.205500	35.0	100.000	9.000	Off	N
1.270500	38.3	100.000	9.000	Off	N
1.335500	40.1	100.000	9.000	Off	N
1.400500	37.8	100.000	9.000	Off	N
1.530500	37.8	100.000	9.000	Off	N
1.590500	36.2	100.000	9.000	Off	N
2.165500	33.0	100.000	9.000	Off	N
2.420500	29.7	100.000	9.000	Off	N
4.170500	36.2	100.000	9.000	Off	N

(continuation of the "Final Measurement Detector 2" table from column 6 ...)

Frequency (MHz)	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.445500	9.6	9.4	47.0	
0.700500	9.6	10.4	46.0	
0.950500	9.7	6.8	46.0	
1.015500	9.7	6.6	46.0	
1.080500	9.7	7.0	46.0	
1.145500	9.7	6.2	46.0	
1.205500	9.7	11.0	46.0	
1.270500	9.7	7.7	46.0	
1.335500	9.7	5.9	46.0	
1.400500	9.7	8.2	46.0	
1.530500	9.7	8.2	46.0	
1.590500	9.7	9.8	46.0	
2.165500	9.7	13.0	46.0	
2.420500	9.7	16.3	46.0	
4.170500	9.7	9.8	46.0	

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■ Operating Mode : VCR REC(1V VITS)_RF OUT CH03

[Graph and Data]

SAMSUNG ELECTRONICS EMC Report

Test Information

EUT Name:	SLV-D370P
Serial Number:	
Test Description:	
Operating Conditions:	VCR Recording (VITS 1V)
Operator Name:	
Comment:	RF OUT CH3

Hardware Setup: Voltage with 2-Line-LISN - [EMI conducted]

Subrange 1

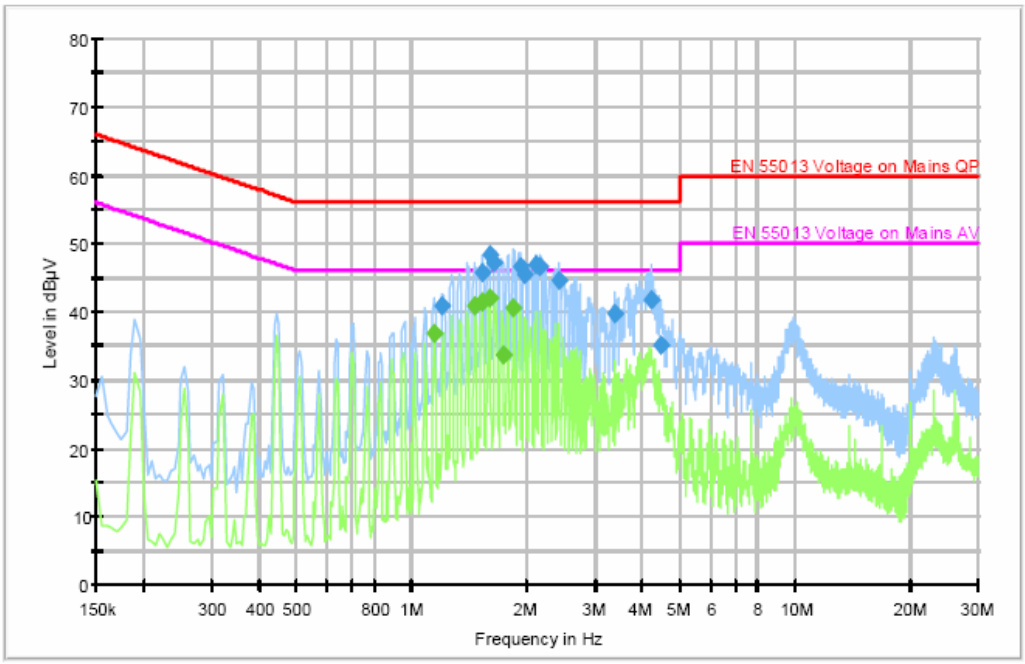
Frequency Range:	150kHz - 30MHz
Receiver:	ESCI 3
Transducer:	ENV216 / Receiver-2-Line-LISN ENV216

Scan Setup: EN55013_2-Line-LISN fin [EMI conducted]

Hardware Setup:	Voltage with 2-Line-LISN
Level Unit:	dBµV

Subrange	Detectors	IF Bandwidth	Meas. Time	Receiver
150kHz - 30MHz	QuasiPeak; Average	9kHz	0.1s	ESCI 3

EN55013 with 2-Line-LISN



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Final Measurement Detector 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line
1.204500	40.8	100.000	9.000	Off	L1
1.525500	45.6	100.000	9.000	Off	L1
1.590500	48.2	100.000	9.000	Off	N
1.645500	47.3	100.000	9.000	Off	N
1.915500	46.8	100.000	9.000	Off	N
1.974500	45.5	100.000	9.000	Off	N
2.100500	46.8	100.000	9.000	Off	N
2.170500	46.7	100.000	9.000	Off	N
2.425500	44.7	100.000	9.000	Off	N
3.380500	39.8	100.000	9.000	Off	N
4.229500	41.6	100.000	9.000	Off	N
4.460500	35.2	100.000	9.000	Off	L1

(continuation of the "Final Measurement Detector 1" table from column 6 ...)

Frequency (MHz)	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
1.204500	9.7	15.2	56.0	
1.525500	9.7	10.4	56.0	
1.590500	9.7	7.8	56.0	
1.645500	9.7	8.7	56.0	
1.915500	9.7	9.2	56.0	
1.974500	9.7	10.5	56.0	
2.100500	9.7	9.2	56.0	
2.170500	9.7	9.3	56.0	
2.425500	9.7	11.3	56.0	
3.380500	9.7	16.2	56.0	
4.229500	9.8	14.4	56.0	
4.460500	9.7	20.8	56.0	

Final Measurement Detector 2

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line
1.145500	36.7	100.000	9.000	Off	L1
1.465500	40.9	100.000	9.000	Off	N
1.530500	41.5	100.000	9.000	Off	N
1.595500	42.2	100.000	9.000	Off	N
1.724500	33.7	100.000	9.000	Off	L1
1.844500	40.6	100.000	9.000	Off	L1

(continuation of the "Final Measurement Detector 2" table from column 6 ...)

Frequency (MHz)	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
1.145500	9.7	9.3	46.0	
1.465500	9.7	5.1	46.0	
1.530500	9.7	4.5	46.0	
1.595500	9.7	3.8	46.0	
1.724500	9.7	12.3	46.0	
1.844500	9.7	5.4	46.0	

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■ Operating Mode : VCR REC(1V VITS)_RF OUT CH04

[Graph and Data]

SAMSUNG ELECTRONICS EMC Report

Test Information

EUT Name:	SLV-D370P
Serial Number:	
Test Description:	
Operating Conditions:	VCR Recording (VITS 1V)
Operator Name:	
Comment:	RF OUT CH4

Hardware Setup: Voltage with 2-Line-LISN - [EMI conducted]

Subrange 1

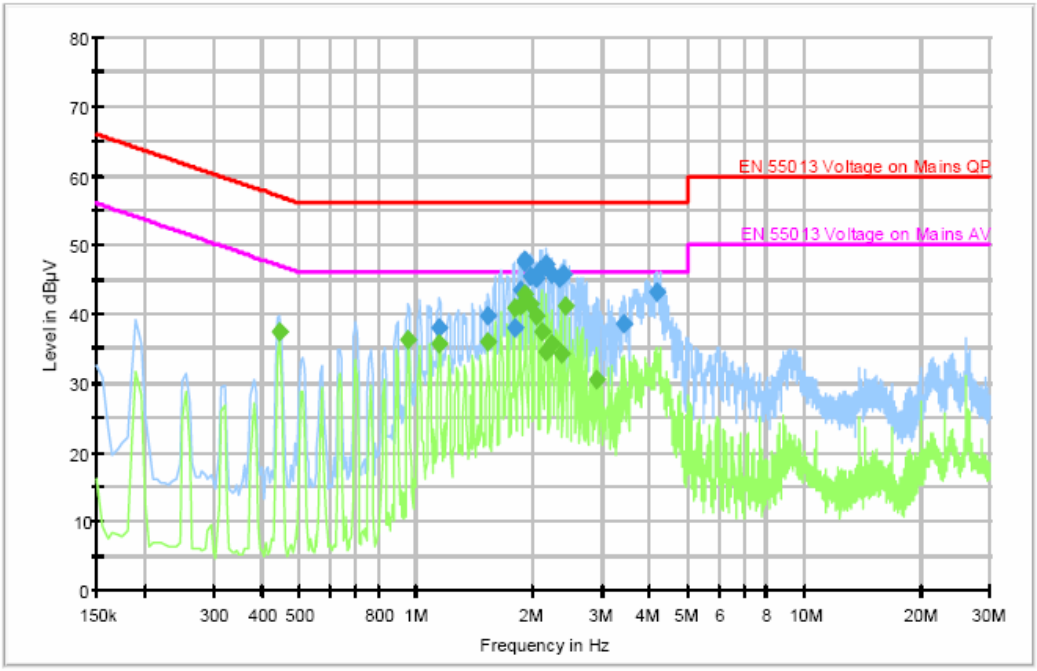
Frequency Range:	150kHz - 30MHz
Receiver:	ESCI 3
Transducer:	ENV216 / Receiver-2-Line-LISN ENV216

Scan Setup: EN55013_2-Line-LISN fin [EMI conducted]

Hardware Setup:	Voltage with 2-Line-LISN
Level Unit:	dBµV

Subrange	Detectors	IF Bandwidth	Meas. Time	Receiver
150kHz - 30MHz	QuasiPeak; Average	9kHz	0.1s	ESCI 3

EN55013 with 2-Line-LISN



Final Measurement Detector 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line
1.150500	38.1	100.000	9.000	Off	L1
1.530500	39.8	100.000	9.000	Off	L1
1.790500	37.9	100.000	9.000	Off	L1
1.855500	43.4	100.000	9.000	Off	L1
1.909500	47.5	100.000	9.000	Off	N
1.910500	47.6	100.000	9.000	Off	N
1.974500	45.4	100.000	9.000	Off	L1
2.040500	45.2	100.000	9.000	Off	L1
2.085500	46.4	100.000	9.000	Off	N
2.159500	47.3	100.000	9.000	Off	N
2.225500	45.8	100.000	9.000	Off	N
2.350500	45.2	100.000	9.000	Off	N
2.400500	45.7	100.000	9.000	Off	N
3.440500	38.5	100.000	9.000	Off	N
4.180500	43.1	100.000	9.000	Off	N

(continuation of the "Final Measurement Detector 1" table from column 6 ...)

Frequency (MHz)	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
1.150500	9.7	17.9	56.0	
1.530500	9.7	16.2	56.0	
1.790500	9.7	18.1	56.0	
1.855500	9.7	12.6	56.0	
1.909500	9.7	8.5	56.0	
1.910500	9.7	8.4	56.0	
1.974500	9.7	10.6	56.0	
2.040500	9.7	10.8	56.0	
2.085500	9.7	9.6	56.0	
2.159500	9.7	8.7	56.0	
2.225500	9.7	10.2	56.0	
2.350500	9.7	10.8	56.0	
2.400500	9.7	10.3	56.0	
3.440500	9.7	17.5	56.0	
4.180500	9.8	12.9	56.0	

Final Measurement Detector 2

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line
0.445500	37.4	100.000	9.000	Off	N
0.955500	36.4	100.000	9.000	Off	N
1.145500	35.7	100.000	9.000	Off	L1
1.530500	35.9	100.000	9.000	Off	N
1.785500	40.8	100.000	9.000	Off	N
1.849500	41.1	100.000	9.000	Off	N
1.910500	43.0	100.000	9.000	Off	N
1.975500	41.4	100.000	9.000	Off	N
2.039500	39.8	100.000	9.000	Off	N
2.104500	37.4	100.000	9.000	Off	N
2.169500	34.5	100.000	9.000	Off	N
2.230500	35.7	100.000	9.000	Off	N
2.355500	34.1	100.000	9.000	Off	N
2.424500	41.0	100.000	9.000	Off	N
2.925500	30.4	100.000	9.000	Off	N

(continuation of the "Final Measurement Detector 2" table from column 6 ...)

Frequency (MHz)	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.445500	9.6	9.5	47.0	
0.955500	9.6	9.6	46.0	
1.145500	9.7	10.3	46.0	
1.530500	9.7	10.1	46.0	
1.785500	9.7	5.2	46.0	
1.849500	9.7	4.9	46.0	
1.910500	9.7	3.0	46.0	
1.975500	9.7	4.6	46.0	
2.039500	9.7	6.2	46.0	
2.104500	9.7	8.6	46.0	
2.169500	9.7	11.5	46.0	
2.230500	9.7	10.3	46.0	
2.355500	9.7	11.9	46.0	
2.424500	9.7	5.0	46.0	
2.925500	9.7	15.6	46.0	

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■ Operating Mode : VCR REC(5V VITS)_RF OUT CH03

[Graph and Data]

SAMSUNG ELECTRONICS EMC Report

Test Information

EUT Name:	SLV-D370P
Serial Number:	
Test Description:	
Operating Conditions:	VCR Recording (VITS 5V)
Operator Name:	
Comment:	RF OUT CH3

Hardware Setup: Voltage with 2-Line-LISN - [EMI conducted]

Subrange 1

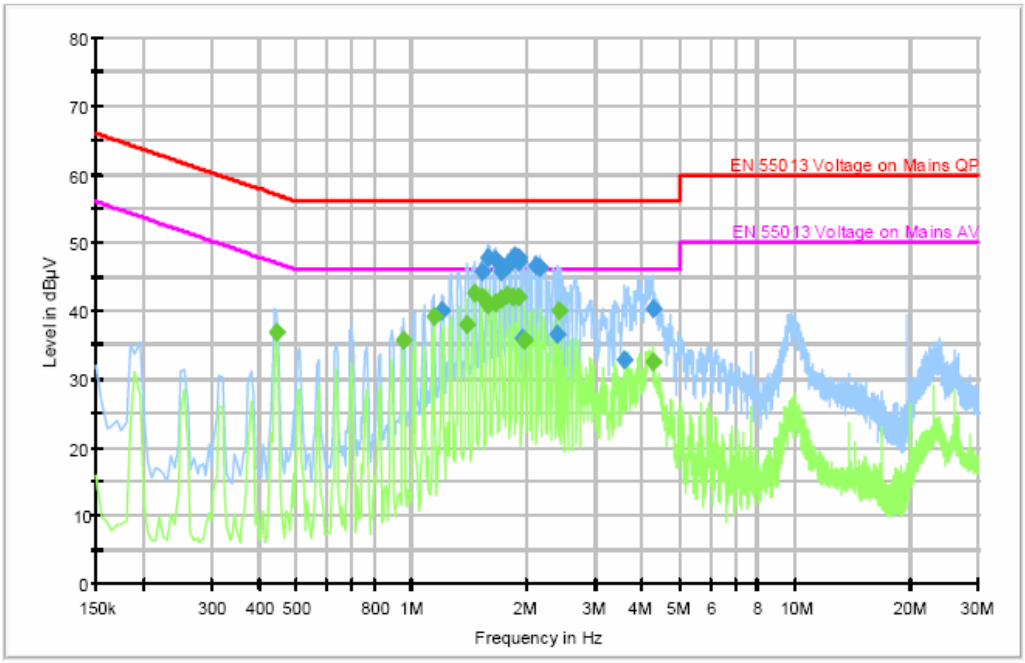
Frequency Range:	150kHz - 30MHz
Receiver:	ESCI 3
Transducer:	ENV216 / Receiver-2-Line-LISN ENV216

Scan Setup: EN55013_2-Line-LISN fin [EMI conducted]

Hardware Setup:	Voltage with 2-Line-LISN
Level Unit:	dBµV

Subrange	Detectors	IF Bandwidth	Meas. Time	Receiver
150kHz - 30MHz	QuasiPeak; Average	9kHz	0.1s	ESCI 3

EN55013 with 2-Line-LISN



Final Measurement Detector 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line
1.199500	40.1	100.000	9.000	Off	L1
1.520500	45.8	100.000	9.000	Off	N
1.580500	47.7	100.000	9.000	Off	N
1.654500	47.4	100.000	9.000	Off	L1
1.714500	45.7	100.000	9.000	Off	N
1.775500	46.6	100.000	9.000	Off	N
1.849500	48.1	100.000	9.000	Off	N
1.900500	47.2	100.000	9.000	Off	N
1.905500	47.7	100.000	9.000	Off	N
1.949500	35.9	100.000	9.000	Off	N
2.100500	46.7	100.000	9.000	Off	N
2.150500	46.3	100.000	9.000	Off	N
2.399500	36.7	100.000	9.000	Off	N
3.594500	32.8	100.000	9.000	Off	N
4.259500	40.2	100.000	9.000	Off	L1

(continuation of the "Final Measurement Detector 1" table from column 6 ...)

Frequency (MHz)	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
1.199500	9.7	15.9	56.0	
1.520500	9.7	10.2	56.0	
1.580500	9.7	8.3	56.0	
1.654500	9.7	8.6	56.0	
1.714500	9.7	10.3	56.0	
1.775500	9.7	9.4	56.0	
1.849500	9.7	7.9	56.0	
1.900500	9.7	8.8	56.0	
1.905500	9.7	8.3	56.0	
1.949500	9.7	20.1	56.0	
2.100500	9.7	9.3	56.0	
2.150500	9.7	9.7	56.0	
2.399500	9.7	19.3	56.0	
3.594500	9.7	23.2	56.0	
4.259500	9.7	15.8	56.0	

Final Measurement Detector 2

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line
0.445500	36.7	100.000	9.000	Off	N
0.954500	35.7	100.000	9.000	Off	L1
1.144500	39.2	100.000	9.000	Off	L1
1.399500	38.0	100.000	9.000	Off	L1
1.459500	42.6	100.000	9.000	Off	L1
1.524500	42.1	100.000	9.000	Off	L1
1.589500	40.8	100.000	9.000	Off	L1
1.649500	41.1	100.000	9.000	Off	L1
1.714500	41.8	100.000	9.000	Off	L1
1.779500	42.2	100.000	9.000	Off	L1
1.840500	41.9	100.000	9.000	Off	L1
1.904500	42.0	100.000	9.000	Off	L1
1.969500	35.8	100.000	9.000	Off	L1
2.414500	40.0	100.000	9.000	Off	L1
4.265500	32.6	100.000	9.000	Off	N

(continuation of the "Final Measurement Detector 2" table from column 6 ...)

Frequency (MHz)	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.445500	9.6	10.2	47.0	
0.954500	9.7	10.3	46.0	
1.144500	9.7	6.8	46.0	
1.399500	9.7	8.0	46.0	
1.459500	9.7	3.4	46.0	
1.524500	9.7	3.9	46.0	
1.589500	9.7	5.2	46.0	
1.649500	9.7	4.9	46.0	
1.714500	9.7	4.2	46.0	
1.779500	9.7	3.8	46.0	
1.840500	9.7	4.1	46.0	
1.904500	9.7	4.0	46.0	
1.969500	9.7	10.2	46.0	
2.414500	9.7	6.0	46.0	
4.265500	9.8	13.4	46.0	

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■ Operating Mode : VCR REC(5V VITS)_RF OUT CH04

[Graph and Data]

SAMSUNG ELECTRONICS EMC Report

Test Information

EUT Name:	SLV-D370P
Serial Number:	
Test Description:	
Operating Conditions:	VCR Recording (VITS 5V)
Operator Name:	
Comment:	RF OUT CH4

Hardware Setup: Voltage with 2-Line-LISN - [EMI conducted]

Subrange 1

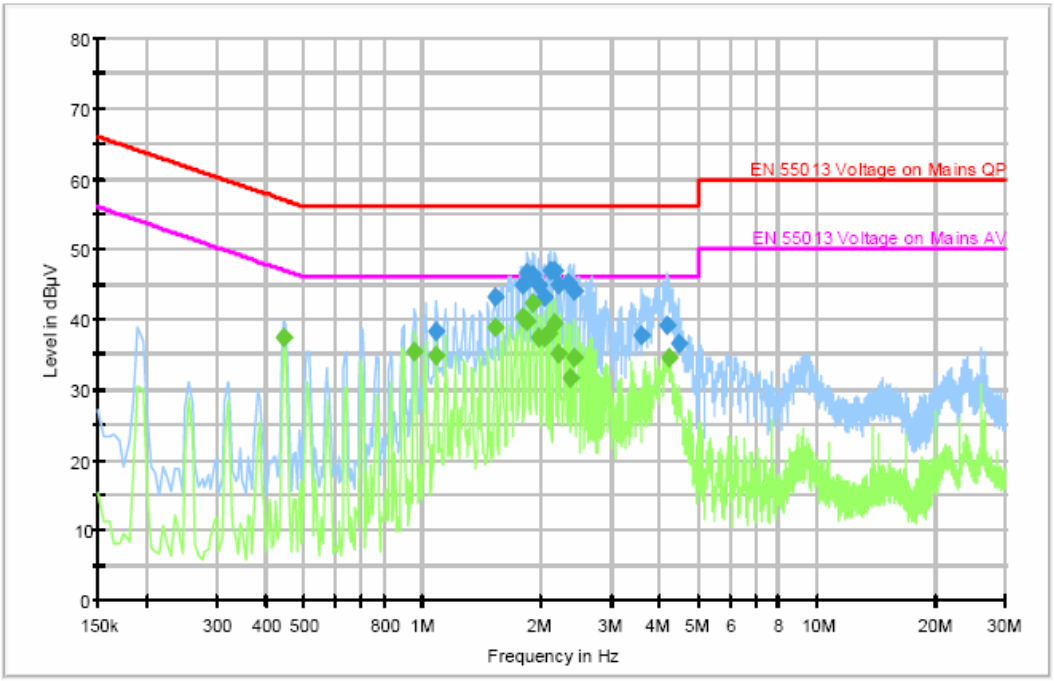
Frequency Range:	150kHz - 30MHz
Receiver:	ESCI 3
Transducer:	ENV216 / Receiver-2-Line-LISN ENV216

Scan Setup: EN55013_2-Line-LISN fin [EMI conducted]

Hardware Setup:	Voltage with 2-Line-LISN
Level Unit:	dBµV

Subrange	Detectors	IF Bandwidth	Meas. Time	Receiver
150kHz - 30MHz	QuasiPeak; Average	9kHz	0.1s	ESCI 3

EN55013 with 2-Line-LISN



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Final Measurement Detector 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line
1.080500	38.3	100.000	9.000	Off	L1
1.525500	43.1	100.000	9.000	Off	N
1.785500	44.8	100.000	9.000	Off	N
1.840500	46.5	100.000	9.000	Off	N
1.910500	46.4	100.000	9.000	Off	N
1.970500	45.0	100.000	9.000	Off	N
2.040500	43.3	100.000	9.000	Off	N
2.100500	46.8	100.000	9.000	Off	N
2.165500	47.0	100.000	9.000	Off	N
2.220500	44.9	100.000	9.000	Off	N
2.350500	45.0	100.000	9.000	Off	N
2.425500	44.1	100.000	9.000	Off	N
3.599500	37.7	100.000	9.000	Off	N
4.164500	39.2	100.000	9.000	Off	N
4.450500	36.6	100.000	9.000	Off	N

(continuation of the "Final Measurement Detector 1" table from column 6 ...)

Frequency (MHz)	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
1.080500	9.7	17.7	56.0	
1.525500	9.7	12.9	56.0	
1.785500	9.7	11.2	56.0	
1.840500	9.7	9.5	56.0	
1.910500	9.7	9.6	56.0	
1.970500	9.7	11.0	56.0	
2.040500	9.7	12.7	56.0	
2.100500	9.7	9.2	56.0	
2.165500	9.7	9.0	56.0	
2.220500	9.7	11.1	56.0	
2.350500	9.7	11.0	56.0	
2.425500	9.7	11.9	56.0	
3.599500	9.7	18.3	56.0	
4.164500	9.7	16.8	56.0	
4.450500	9.8	19.4	56.0	

Final Measurement Detector 2

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line
0.445500	37.5	100.000	9.000	Off	N
0.955500	35.4	100.000	9.000	Off	L1
1.080500	34.7	100.000	9.000	Off	L1
1.525500	38.8	100.000	9.000	Off	L1
1.785500	40.2	100.000	9.000	Off	N
1.845500	39.7	100.000	9.000	Off	N
1.910500	42.2	100.000	9.000	Off	N
1.969500	37.5	100.000	9.000	Off	L1
2.035500	37.4	100.000	9.000	Off	L1
2.095500	37.9	100.000	9.000	Off	L1
2.165500	39.5	100.000	9.000	Off	N
2.220500	35.0	100.000	9.000	Off	L1
2.354500	31.7	100.000	9.000	Off	L1
2.419500	34.5	100.000	9.000	Off	L1
4.194500	34.4	100.000	9.000	Off	L1

(continuation of the "Final Measurement Detector 2" table from column 6 ...)

Frequency (MHz)	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.445500	9.6	9.5	47.0	
0.955500	9.7	10.6	46.0	
1.080500	9.7	11.3	46.0	
1.525500	9.7	7.2	46.0	
1.785500	9.7	5.8	46.0	
1.845500	9.7	6.3	46.0	
1.910500	9.7	3.8	46.0	
1.969500	9.7	8.5	46.0	
2.035500	9.7	8.6	46.0	
2.095500	9.7	8.1	46.0	
2.165500	9.7	6.5	46.0	
2.220500	9.7	11.0	46.0	
2.354500	9.7	14.3	46.0	
2.419500	9.7	11.5	46.0	
4.194500	9.7	11.6	46.0	

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■ Operating Mode : VCR PLAY_RF OUT CH03

[Graph and Data]

SAMSUNG ELECTRONICS EMC Report

Test Information

EUT Name:	SLV-D370P
Serial Number:	
Test Description:	
Operating Conditions:	VCR PLAY
Operator Name:	
Comment:	RF OUT CH3

Hardware Setup: Voltage with 2-Line-LISN - [EMI conducted]

Subrange 1

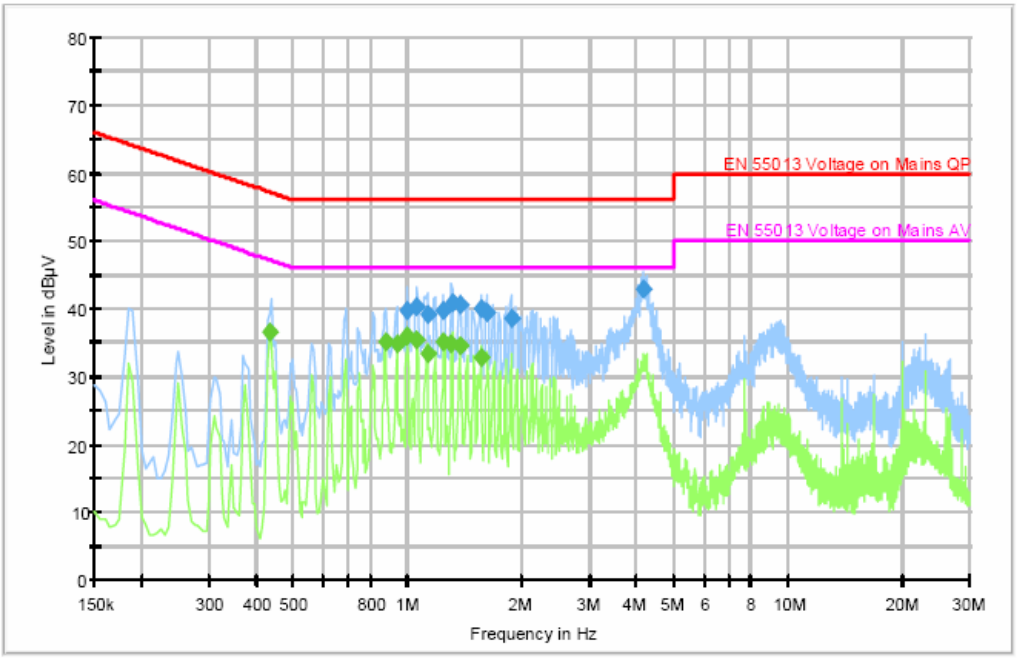
Frequency Range:	150kHz - 30MHz
Receiver:	ESCI 3
Transducer:	ENV216 / Receiver-2-Line-LISN ENV216

Scan Setup: EN55013_2-Line-LISN fin [EMI conducted]

Hardware Setup:	Voltage with 2-Line-LISN
Level Unit:	dBµV

Subrange	Detectors	IF Bandwidth	Meas. Time	Receiver
150kHz - 30MHz	QuasiPeak; Average	9kHz	0.1s	ESCI 3

EN55013 with 2-Line-LISN



Final Measurement Detector 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line
1.000000	39.8	100.000	9.000	Off	L1
1.060500	40.4	100.000	9.000	Off	L1
1.125500	39.2	100.000	9.000	Off	N
1.240500	39.8	100.000	9.000	Off	N
1.309500	40.9	100.000	9.000	Off	N
1.375500	40.5	100.000	9.000	Off	N
1.565500	39.9	100.000	9.000	Off	N
1.624500	39.4	100.000	9.000	Off	N
1.874500	38.7	100.000	9.000	Off	N
4.185500	42.9	100.000	9.000	Off	L1

(continuation of the "Final Measurement Detector 1" table from column 6 ...)

Frequency (MHz)	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
1.000000	9.7	16.2	56.0	
1.060500	9.7	15.6	56.0	
1.125500	9.7	16.8	56.0	
1.240500	9.7	16.2	56.0	
1.309500	9.7	15.1	56.0	
1.375500	9.7	15.5	56.0	
1.565500	9.7	16.1	56.0	
1.624500	9.7	16.6	56.0	
1.874500	9.7	17.3	56.0	
4.185500	9.7	13.1	56.0	

Final Measurement Detector 2

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line
0.435500	36.4	100.000	9.000	Off	N
0.875500	35.0	100.000	9.000	Off	L1
0.935500	34.9	100.000	9.000	Off	L1
1.000000	36.0	100.000	9.000	Off	N
1.060500	35.3	100.000	9.000	Off	N
1.125500	33.3	100.000	9.000	Off	N
1.245500	35.0	100.000	9.000	Off	N
1.305500	34.8	100.000	9.000	Off	N
1.370500	34.5	100.000	9.000	Off	N
1.555500	32.7	100.000	9.000	Off	N

(continuation of the "Final Measurement Detector 2" table from column 6 ...)

Frequency (MHz)	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.435500	9.6	10.7	47.1	
0.875500	9.7	11.0	46.0	
0.935500	9.7	11.1	46.0	
1.000000	9.7	10.0	46.0	
1.060500	9.7	10.7	46.0	
1.125500	9.7	12.7	46.0	
1.245500	9.7	11.0	46.0	
1.305500	9.7	11.2	46.0	
1.370500	9.7	11.5	46.0	
1.555500	9.7	13.3	46.0	

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■ Operating Mode : VCR PLAY_RF OUT CH04

[Graph and Data]

SAMSUNG ELECTRONICS EMC Report

Test Information

EUT Name:	SLV-D370P
Serial Number:	
Test Description:	
Operating Conditions:	VCR PLAY
Operator Name:	
Comment:	RF CUT CH4

Hardware Setup: Voltage with 2-Line-LISN - [EMI conducted]

Subrange 1

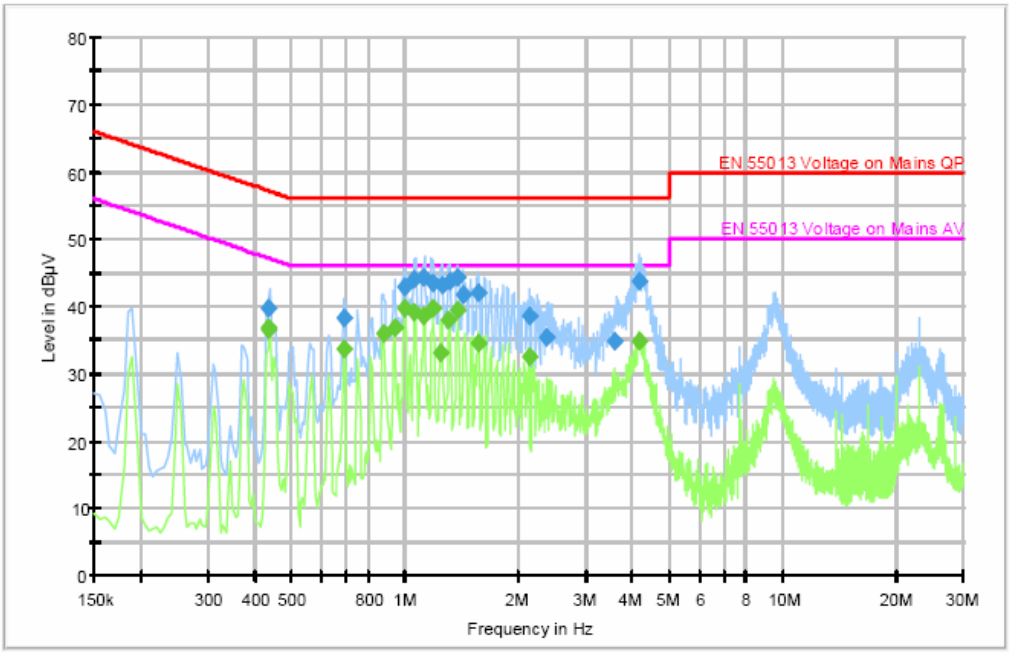
Frequency Range:	150kHz - 30MHz
Receiver:	ESCI 3
Transducer:	ENV216 / Receiver-2-Line-LISN ENV216

Scan Setup: EN55013_2-Line-LISN fin [EMI conducted]

Hardware Setup:	Voltage with 2-Line-LISN
Level Unit:	dBµV

Subrange	Detectors	IF Bandwidth	Meas. Time	Receiver
150kHz - 30MHz	QuasiPeak; Average	9kHz	0.1s	ESCI 3

EN55013 with 2-Line-LISN



Final Measurement Detector 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line
0.435500	39.6	100.000	9.000	Off	N
0.685500	38.4	100.000	9.000	Off	N
1.000000	43.0	100.000	9.000	Off	L1
1.060500	44.1	100.000	9.000	Off	N
1.120500	44.4	100.000	9.000	Off	L1
1.179500	43.3	100.000	9.000	Off	L1
1.250500	43.2	100.000	9.000	Off	N
1.315500	43.9	100.000	9.000	Off	N
1.375500	44.2	100.000	9.000	Off	N
1.420500	41.8	100.000	9.000	Off	N
1.565500	42.1	100.000	9.000	Off	N
2.130500	38.6	100.000	9.000	Off	N
2.380500	35.3	100.000	9.000	Off	N
3.584500	34.8	100.000	9.000	Off	N
4.160500	43.7	100.000	9.000	Off	N

(continuation of the "Final Measurement Detector 1" table from column 6 ...)

Frequency (MHz)	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.435500	9.6	17.5	57.1	
0.685500	9.6	17.6	56.0	
1.000000	9.7	13.0	56.0	
1.060500	9.7	11.9	56.0	
1.120500	9.7	11.6	56.0	
1.179500	9.7	12.7	56.0	
1.250500	9.7	12.8	56.0	
1.315500	9.7	12.1	56.0	
1.375500	9.7	11.8	56.0	
1.420500	9.7	14.2	56.0	
1.565500	9.7	13.9	56.0	
2.130500	9.7	17.4	56.0	
2.380500	9.7	20.7	56.0	
3.584500	9.7	21.2	56.0	
4.160500	9.7	12.3	56.0	

Final Measurement Detector 2

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line
0.434500	36.7	100.000	9.000	Off	N
0.435500	36.6	100.000	9.000	Off	N
0.685500	33.7	100.000	9.000	Off	N
0.875500	36.0	100.000	9.000	Off	L1
0.935500	36.7	100.000	9.000	Off	L1
1.000000	39.8	100.000	9.000	Off	L1
1.055500	39.0	100.000	9.000	Off	L1
1.120500	38.7	100.000	9.000	Off	L1
1.180500	39.7	100.000	9.000	Off	L1
1.245500	33.0	100.000	9.000	Off	L1
1.305500	38.0	100.000	9.000	Off	L1
1.375500	39.3	100.000	9.000	Off	N
1.565500	34.6	100.000	9.000	Off	N
2.130500	32.6	100.000	9.000	Off	N
4.185500	34.7	100.000	9.000	Off	N

(continuation of the "Final Measurement Detector 2" table from column 6 ...)

Frequency (MHz)	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.434500	9.6	10.4	47.2	
0.435500	9.6	10.5	47.1	
0.685500	9.6	12.3	46.0	
0.875500	9.7	10.0	46.0	
0.935500	9.7	9.3	46.0	
1.000000	9.7	6.2	46.0	
1.055500	9.7	7.0	46.0	
1.120500	9.7	7.3	46.0	
1.180500	9.7	6.3	46.0	
1.245500	9.7	13.0	46.0	
1.305500	9.7	8.0	46.0	
1.375500	9.7	6.7	46.0	
1.565500	9.7	11.4	46.0	
2.130500	9.7	13.4	46.0	
4.185500	9.8	11.3	46.0	

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3.2 Radiated Emission

Test Information		
	Test Engineer	Young Jin, Kim
	Test Date	November 22 ~ 23, 2005
	Climate Condition	Ambient Temperature : 23℃ Relative Humidity : 35%
	Test Place	3m Semi-anechoic Chamber

Test Equipments

Equipment	Modal Name	Manufacturer	Serial No.	Calibration	
				Next Date	Interval
RF Selector	NS4900	TOYO	-	N/A	N/A
Bi-log Antenna	CBL6141A	SCHAFFNER	4258	2006-06-09	12
Mast Controller	CO2000	Inn-co	CO2000/185/927/1204/L	N/A	N/A
Test Software	EP5RET	TOYO	None	N/A	N/A
Test Software	EP5RE	TOYO	None	N/A	N/A
Ant. Mast	MA4000	Inn-co	-	N/A	12
EMI Test Receiver	ESI-26	R&S	100288	2006-04-01	12
Amplifier	310N	SONOMA	251676	2006-03-08	12
TV Signal Generator	PM5418-TDSI	PHILIPS	LO612437	2006-09-21	12

EUT Test Setup

EUT set up in semi-anechoic chamber. EUT positioned at 3m from antenna in center of table. All ports terminated into characteristic loads.

Test Result

Measurement Results	Pass The measured emissions of the EUT have found to be below the specified limits.

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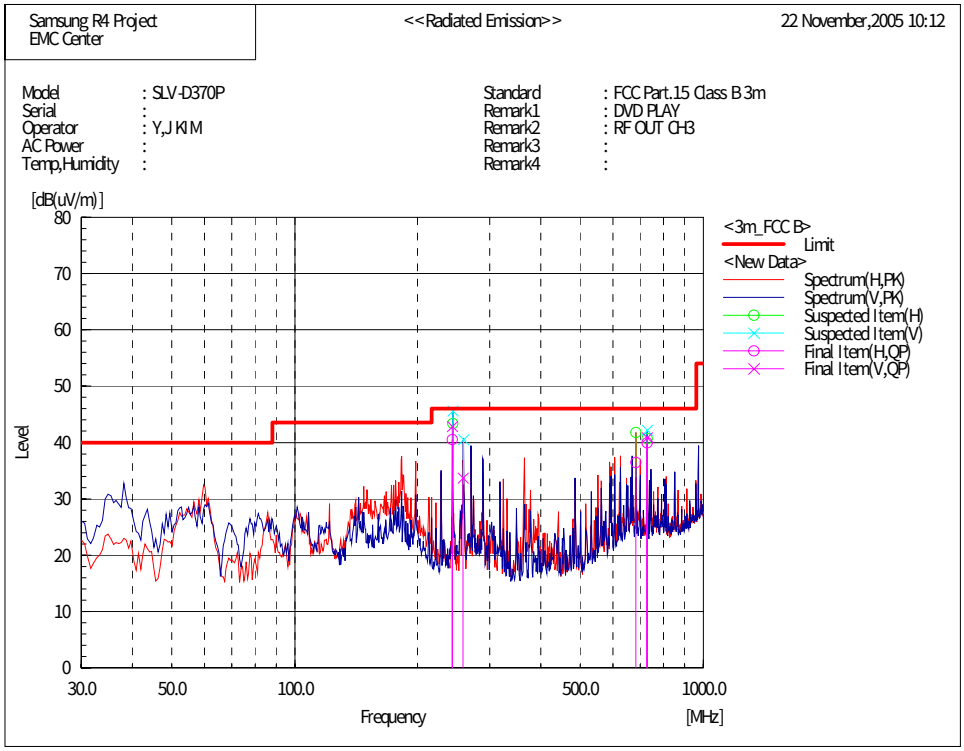
Test Data

■ Operating Mode : DVD PLAY_RF OUT CH03

[Graph and Data]



Final Result

--- Horizontal Polarization (QP)---

No.	Frequency [MHz]	Reading [dB(uV)]	c.f [dB(1/m)]	Result [dB(uV/m)]	Limit [dB(uV/m)]	Margin [dB]	Remark
1	243.032	57.6	-17.1	40.5	46.0	5.5	
2	683.436	43.0	-6.6	36.4	46.0	9.6	
3	729.041	45.4	-5.4	40.0	46.0	6.0	

--- Vertical Polarization (QP)---

No.	Frequency [MHz]	Reading [dB(uV)]	c.f [dB(1/m)]	Result [dB(uV/m)]	Limit [dB(uV/m)]	Margin [dB]	Remark
1	243.005	60.0	-17.1	42.9	46.0	3.1	
2	258.091	50.1	-16.4	33.7	46.0	12.3	
3	729.041	46.3	-5.4	40.9	46.0	5.1	

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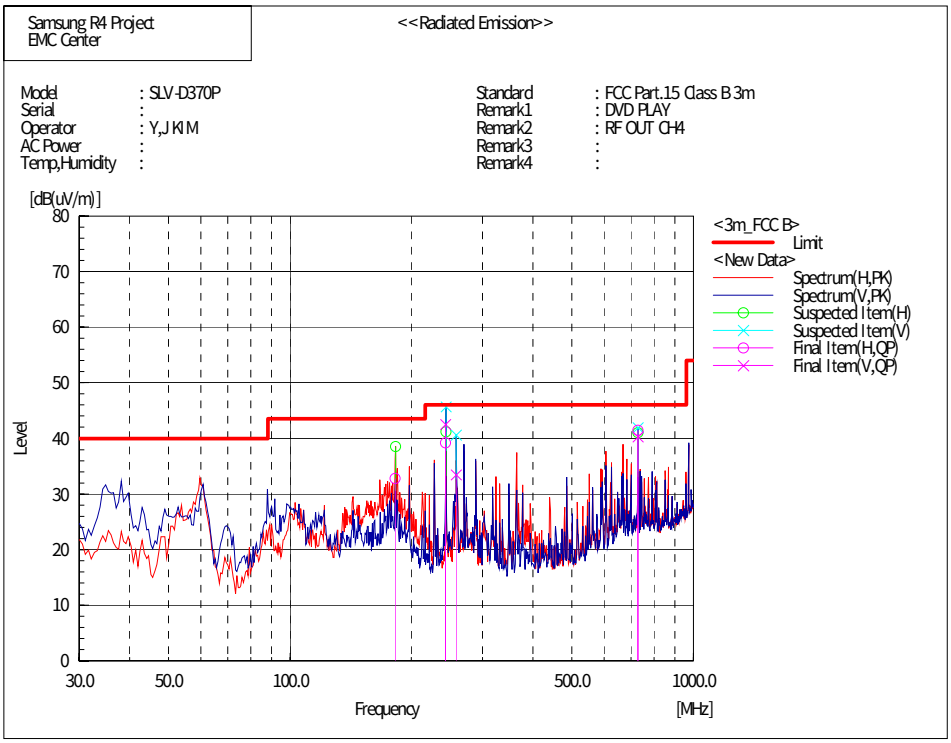
■ Operating Mode : DVD PLAY_RF OUT CH04

[Graph and Data]



Final Result

--- Horizontal Polarization (QP)---

No.	Frequency [MHz]	Reading [dB(uV)]	c.f [dB(1/m)]	Result [dB(uV/m)]	Limit [dB(uV/m)]	Margin [dB]	Remark
1	182.252	51.9	-19.1	32.8	43.5	10.7	
2	243.005	56.3	-17.1	39.2	46.0	6.8	
3	729.041	46.9	-5.4	41.5	46.0	4.5	

--- Vertical Polarization (QP)---

No.	Frequency [MHz]	Reading [dB(uV)]	c.f [dB(1/m)]	Result [dB(uV/m)]	Limit [dB(uV/m)]	Margin [dB]	Remark
1	243.030	59.6	-17.1	42.5	46.0	3.5	
2	258.096	49.9	-16.4	33.5	46.0	12.5	
3	729.041	45.7	-5.4	40.3	46.0	5.7	

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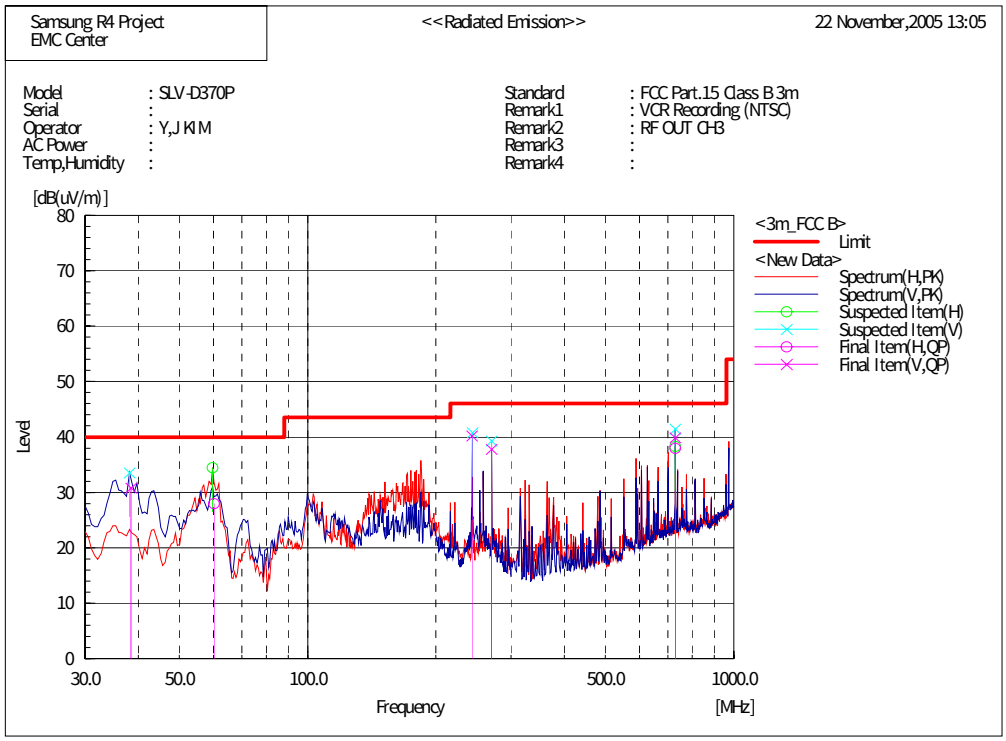
■ Operating Mode : VCR REC(NTSC)_RF OUT CH03

[Graph and Data]



Final Result

--- Horizontal Polarization (QP)---

No.	Frequency [MHz]	Reading [dB(uV)]	c.f [dB(1/m)]	Result [dB(uV/m)]	Limit [dB(uV/m)]	Margin [dB]	Remark
1	60.282	48.6	-20.7	27.9	40.0	12.1	
2	729.027	43.4	-5.4	38.0	46.0	8.0	

--- Vertical Polarization (QP)---

No.	Frequency [MHz]	Reading [dB(uV)]	c.f [dB(1/m)]	Result [dB(uV/m)]	Limit [dB(uV/m)]	Margin [dB]	Remark
1	38.427	41.4	-10.6	30.8	40.0	9.2	
2	243.016	57.3	-17.1	40.2	46.0	5.8	
3	270.005	54.0	-16.2	37.8	46.0	8.2	
4	729.041	45.2	-5.4	39.8	46.0	6.2	

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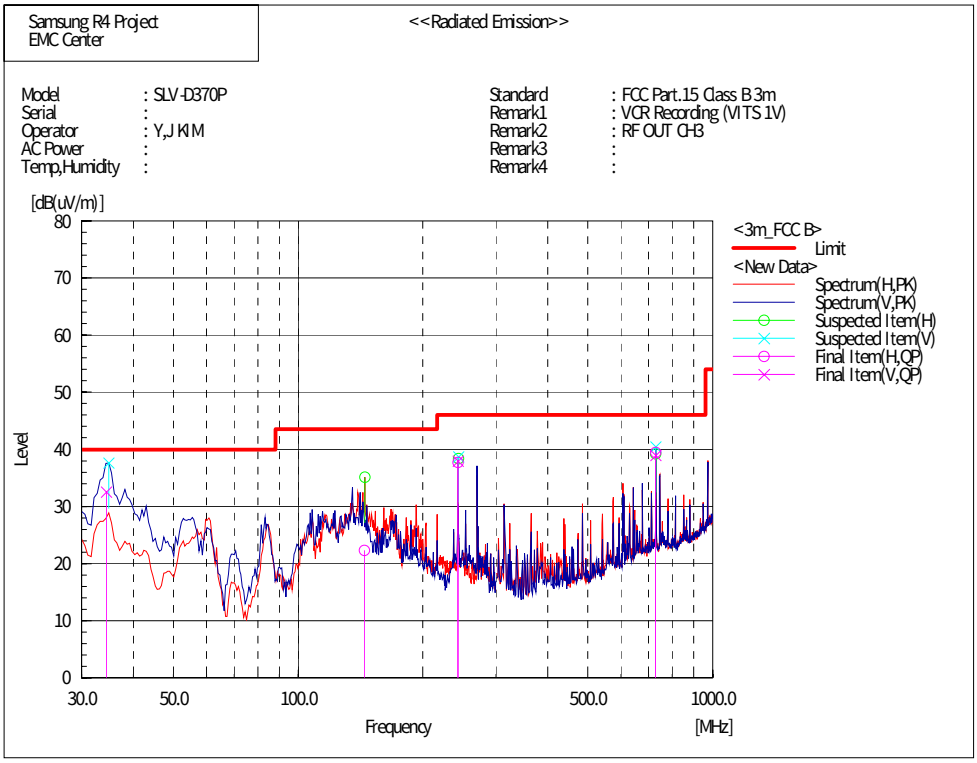
■ Operating Mode : VCR REC(1V VITS)_RF OUT CH03

[Graph and Data]



Final Result

--- Horizontal Polarization (QP)---

No.	Frequency [MHz]	Reading [dB(uV)]	c.f [dB(1/m)]	Result [dB(uV/m)]	Limit [dB(uV/m)]	Margin [dB]	Remark
1	144.388	39.5	-17.2	22.3	43.5	21.2	
2	243.016	54.8	-17.1	37.7	46.0	8.3	
3	729.027	44.9	-5.4	39.5	46.0	6.5	

--- Vertical Polarization (QP)---

No.	Frequency [MHz]	Reading [dB(uV)]	c.f [dB(1/m)]	Result [dB(uV/m)]	Limit [dB(uV/m)]	Margin [dB]	Remark
1	34.445	41.0	-8.5	32.5	40.0	7.5	
2	243.021	55.1	-17.1	38.0	46.0	8.0	
3	729.041	44.4	-5.4	39.0	46.0	7.0	

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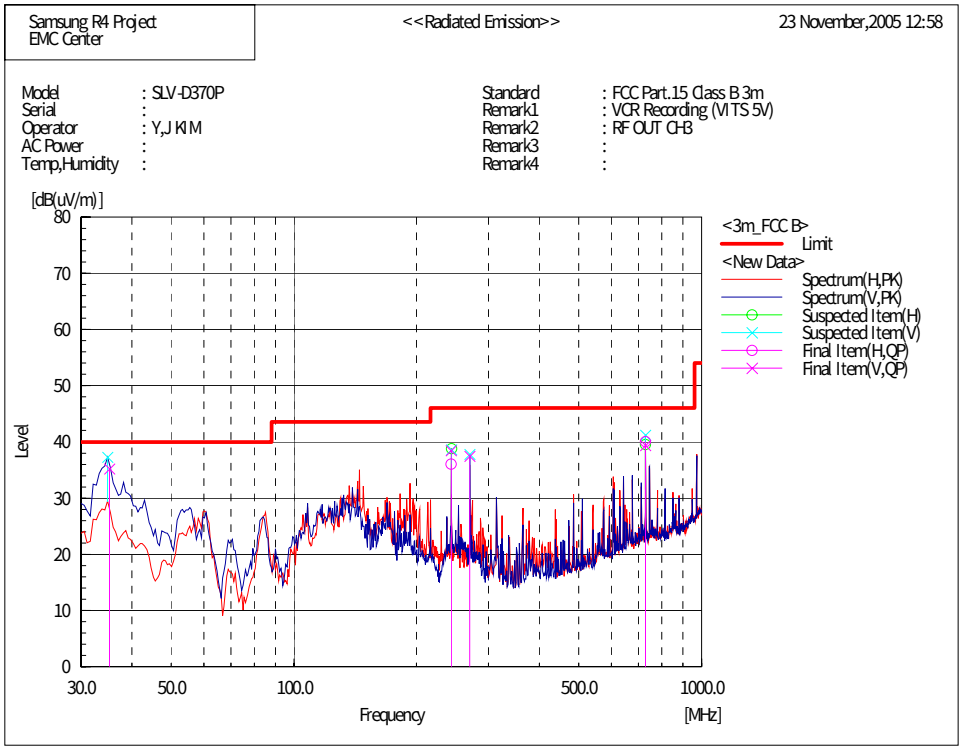
■ Operating Mode : VCR REC(5V VITS)_RF OUT CH03

[Graph and Data]



Final Result

--- Horizontal Polarization (QP)---

No.	Frequency [MHz]	Reading [dB(uV)]	c.f [dB(1/m)]	Result [dB(uV/m)]	Limit [dB(uV/m)]	Margin [dB]	Remark
1	243.016	53.2	-17.1	36.1	46.0	9.9	
2	729.027	45.4	-5.4	40.0	46.0	6.0	

--- Vertical Polarization (QP)---

No.	Frequency [MHz]	Reading [dB(uV)]	c.f [dB(1/m)]	Result [dB(uV/m)]	Limit [dB(uV/m)]	Margin [dB]	Remark
1	35.284	44.2	-9.0	35.2	40.0	4.8	
2	243.011	55.6	-17.1	38.5	46.0	7.5	
3	270.016	53.7	-16.2	37.5	46.0	8.5	
4	729.041	44.8	-5.4	39.4	46.0	6.6	

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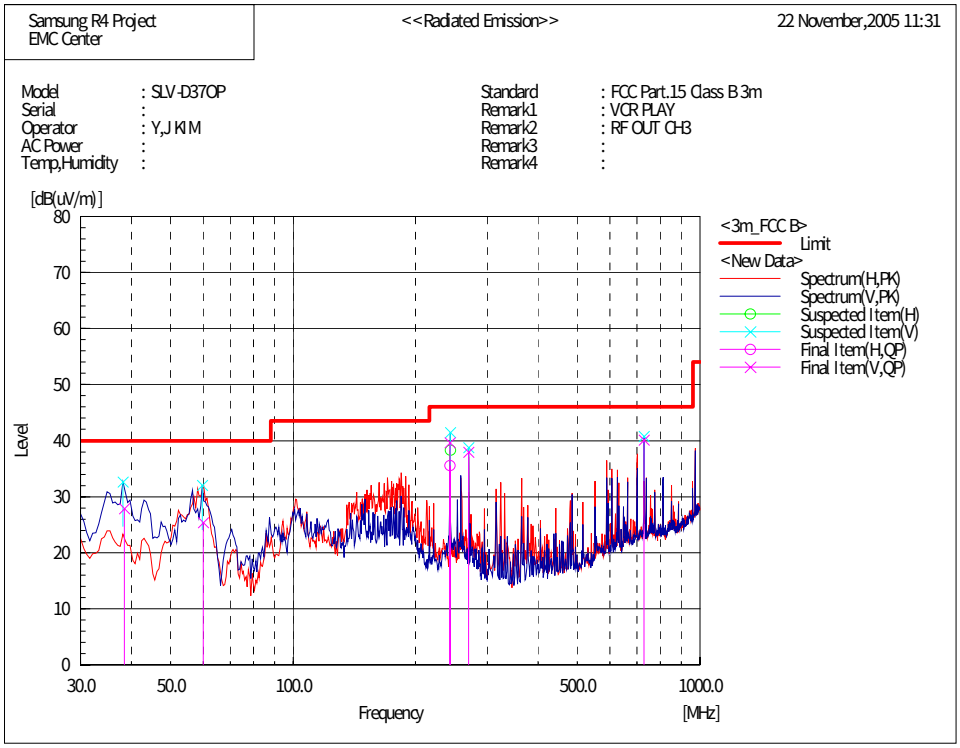
■ Operating Mode : VCR PLAY_RF OUT CH03

[Graph and Data]



Final Result

--- Horizontal Polarization (QP)---

No.	Frequency [MHz]	Reading [dB(uV)]	c.f [dB(1/m)]	Result [dB(uV/m)]	Limit [dB(uV/m)]	Margin [dB]	Remark
1	243.032	52.7	-17.1	35.6	46.0	10.4	

--- Vertical Polarization (QP)---

No.	Frequency [MHz]	Reading [dB(uV)]	c.f [dB(1/m)]	Result [dB(uV/m)]	Limit [dB(uV/m)]	Margin [dB]	Remark
1	38.444	38.5	-10.6	27.9	40.0	12.1	
2	60.011	46.0	-20.6	25.4	40.0	14.6	
3	243.021	56.7	-17.1	39.6	46.0	6.4	
4	270.005	54.2	-16.2	38.0	46.0	8.0	
5	729.027	45.5	-5.4	40.1	46.0	5.9	

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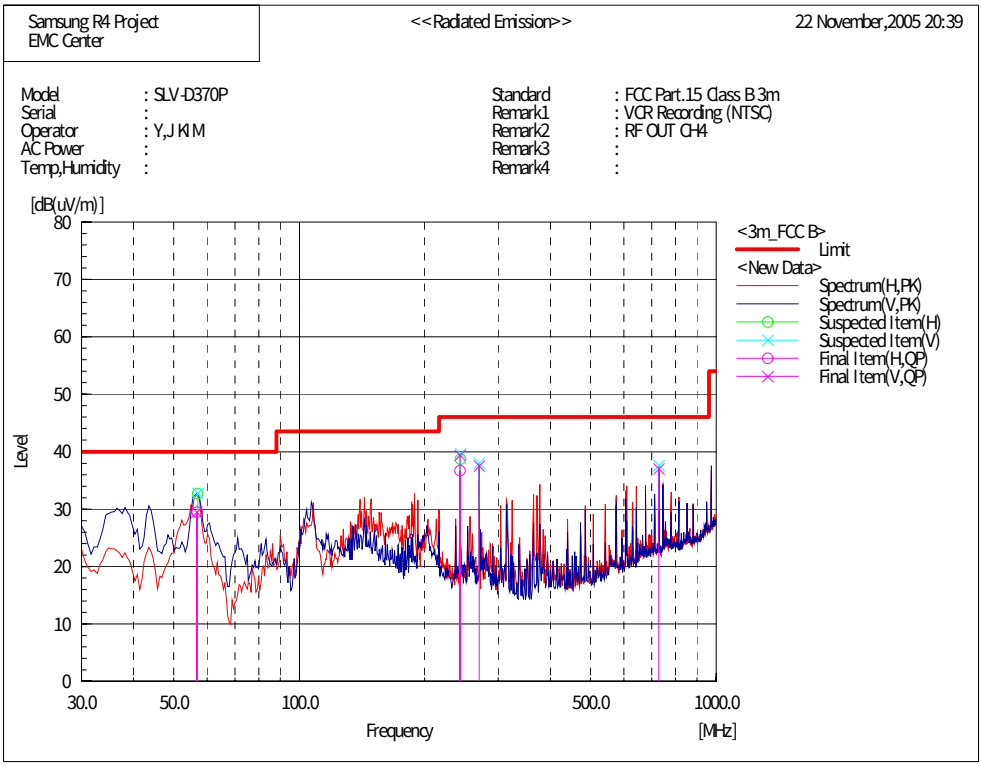
■ Operating Mode : VCR REC(NTSC)_RF OUT CH04

[Graph and Data]



Final Result

--- Horizontal Polarization (QP)---

No.	Frequency [MHz]	Reading [dB(uV)]	c.f [dB(1/m)]	Result [dB(uV/m)]	Limit [dB(uV/m)]	Margin [dB]	Remark
1	56.808	48.8	-19.4	29.4	40.0	10.6	
2	243.011	53.8	-17.1	36.7	46.0	9.3	

--- Vertical Polarization (QP)---

No.	Frequency [MHz]	Reading [dB(uV)]	c.f [dB(1/m)]	Result [dB(uV/m)]	Limit [dB(uV/m)]	Margin [dB]	Remark
1	56.721	48.8	-19.3	29.5	40.0	10.5	
2	243.016	56.5	-17.1	39.4	46.0	6.6	
3	270.021	53.8	-16.2	37.6	46.0	8.4	
4	729.041	42.4	-5.4	37.0	46.0	9.0	

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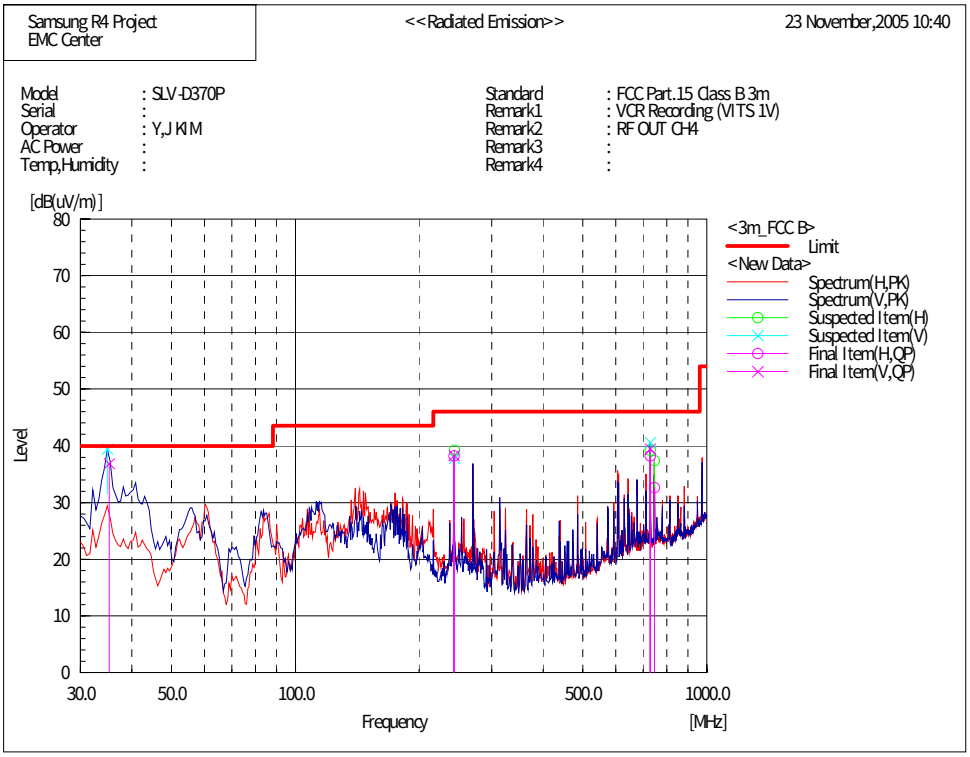
■ Operating Mode : VCR REC(1V VITS)_RF OUT CH04

[Graph and Data]



Final Result

--- Horizontal Polarization (QP)---

No.	Frequency [MHz]	Reading [dB(uV)]	c.f [dB(1/m)]	Result [dB(uV/m)]	Limit [dB(uV/m)]	Margin [dB]	Remark
1	243.011	55.3	-17.1	38.2	46.0	7.8	
2	729.027	43.6	-5.4	38.2	46.0	7.8	
3	745.075	37.7	-5.1	32.6	46.0	13.4	

--- Vertical Polarization (QP)---

No.	Frequency [MHz]	Reading [dB(uV)]	c.f [dB(1/m)]	Result [dB(uV/m)]	Limit [dB(uV/m)]	Margin [dB]	Remark
1	35.278	45.9	-9.0	36.9	40.0	3.1	
2	243.011	55.4	-17.1	38.3	46.0	7.7	
3	729.027	44.8	-5.4	39.4	46.0	6.6	

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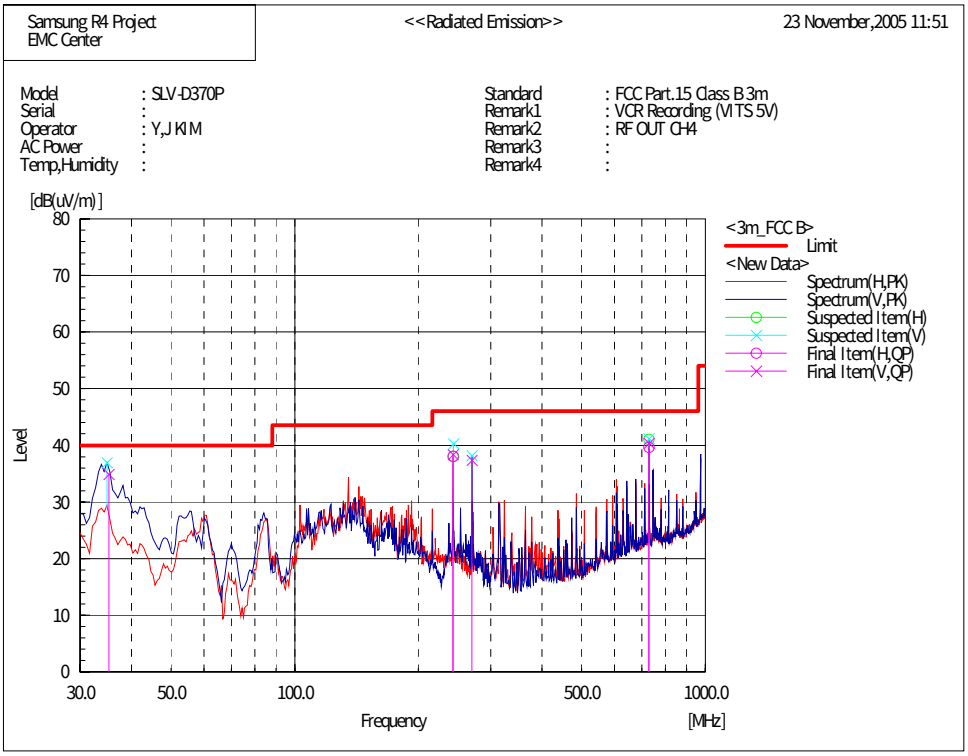
■ Operating Mode : VCR REC(5V VITS)_RF OUT CH04

[Graph and Data]



Final Result

--- Horizontal Polarization (QP)---

No.	Frequency [MHz]	Reading [dB(uV)]	c.f [dB(1/m)]	Result [dB(uV/m)]	Limit [dB(uV/m)]	Margin [dB]	Remark
1	243.000	55.2	-17.1	38.1	46.0	7.9	
2	729.027	45.0	-5.4	39.6	46.0	6.4	

--- Vertical Polarization (QP)---

No.	Frequency [MHz]	Reading [dB(uV)]	c.f [dB(1/m)]	Result [dB(uV/m)]	Limit [dB(uV/m)]	Margin [dB]	Remark
1	35.267	43.9	-9.0	34.9	40.0	5.1	
2	243.016	55.5	-17.1	38.4	46.0	7.6	
3	270.011	53.6	-16.2	37.4	46.0	8.6	
4	729.027	45.8	-5.4	40.4	46.0	5.6	

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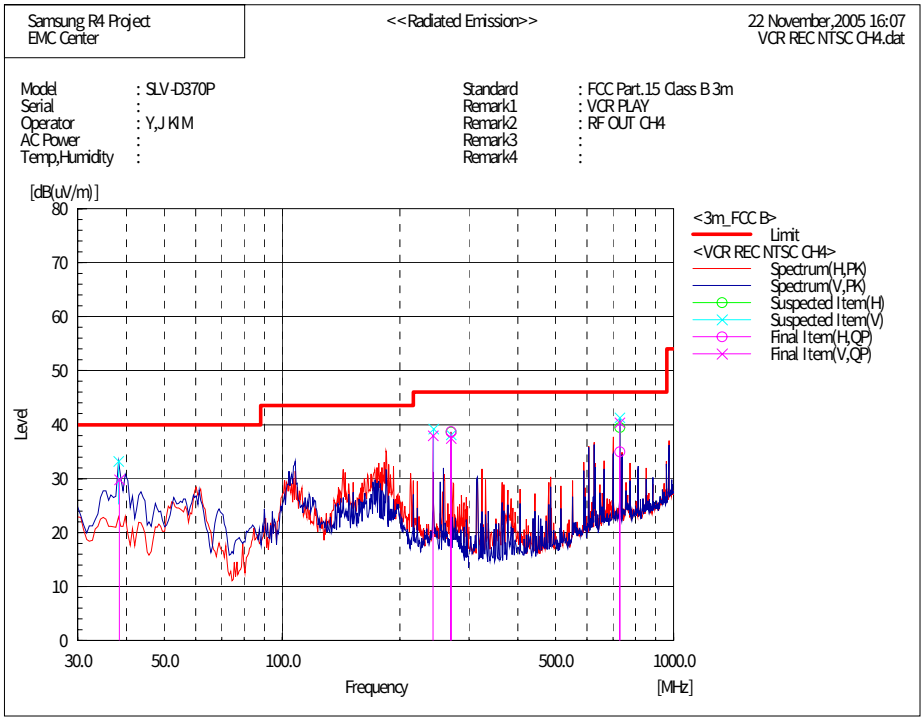
■ Operating Mode : VCR PLAY_RF OUT CH04

[Graph and Data]



Final Result

--- Horizontal Polarization (QP)---

No.	Frequency [MHz]	Reading [dB(uV)]	c.f [dB(1/m)]	Result [dB(uV/m)]	Limit [dB(uV/m)]	Margin [dB]	Remark
1	270.011	54.9	-16.2	38.7	46.0	7.3	
2	729.027	40.3	-5.4	34.9	46.0	11.1	

--- Vertical Polarization (QP)---

No.	Frequency [MHz]	Reading [dB(uV)]	c.f [dB(1/m)]	Result [dB(uV/m)]	Limit [dB(uV/m)]	Margin [dB]	Remark
1	38.400	40.4	-10.6	29.8	40.0	10.2	
2	243.000	55.0	-17.1	37.9	46.0	8.1	
3	270.016	53.7	-16.2	37.5	46.0	8.5	
4	729.041	45.8	-5.4	40.4	46.0	5.6	

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3.3 Output Signal Level

Test Information		
	Test Engineer	Young Jin, Kim
	Test Date	November 26, 2005
	Climate Condition	Ambient Temperature : 23℃ Relative Humidity : 35%
	Test Place	Shied Room #1

Test Equipments

Equipment	Modal Name	Manufacturer	Serial No.	Calibration	
				Next Date	Interval
TV Signal Generator	PM5418-TDSI	PHILIPS	LO612437	2006-09-23	12
Pre-Amplifier	8447D	Agilent	2944A10430	2006-09-10	12
Field strength meter	ESCI	R&S	100136	2006-04-17	12
Matching Pad	RAM	R&S	860175/025	2006-02-26	12

EUT Test Setup

The RF output terminal was connected to the test receiver through the matching pad(75-50 ohm) with a cable. Then, the RF output signal level was measured under the EUT Operating mode(s).

Test Result

Measurement Results	Pass The measured emissions of the EUT have found to be below the specified limits.

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Test Data

■ **Operating Mode : DVD PLAY** **RF Output CH No. :3CH**

Frequency [MHz]	Reading [dBuV]	Factor [dB]	Level [dBuV]	Limit [dBuV]	Margin [dB]
56.769	71.4	-20.2	51.2	56.5	5.3
61.255	86.5	-20.2	66.3	69.5	3.2
65.743	70.2	-20.2	50.0	56.5	6.5

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ **Operating Mode : DVD PLAY** **RF Output CH No. :4CH**

Frequency [MHz]	Reading [dBuV]	Factor [dB]	Level [dBuV]	Limit [dBuV]	Margin [dB]
62.751	70.7	-20.2	50.6	56.5	6.0
67.238	85.8	-20.2	65.6	69.5	3.9
71.723	69.5	-20.2	49.3	56.5	7.2

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ **Operating Mode : VCR RECORD(NTSC)** **RF Output CH No. :3CH**

Frequency [MHz]	Reading [dBuV]	Factor [dB]	Level [dBuV]	Limit [dBuV]	Margin [dB]
56.763	71.4	-20.2	51.2	56.5	5.3
61.256	86.2	-20.2	66.0	69.5	3.5
65.747	70.2	-20.2	50.0	56.5	6.5

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ **Operating Mode : VCR RECORD(NTSC)** **RF Output CH No. :4CH**

Frequency [MHz]	Reading [dBuV]	Factor [dB]	Level [dBuV]	Limit [dBuV]	Margin [dB]
62.752	70.8	-20.2	50.6	56.5	5.9
67.240	85.6	-20.2	65.4	69.5	4.1
71.735	69.6	-20.2	49.4	56.5	7.1

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

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■ **Operating Mode : VCR RECORD(1V VITS)** **RF Output CH No. :3CH**

Frequency [MHz]	Reading [dBuV]	Factor [dB]	Level [dBuV]	Limit [dBuV]	Margin [dB]
56.755	71.5	-20.2	51.3	56.5	5.2
61.260	86.2	-20.2	66.0	69.5	3.5
65.757	70.3	-20.2	50.1	56.5	6.4

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ **Operating Mode : VCR RECORD(1V VITS)** **RF Output CH No. :4CH**

Frequency [MHz]	Reading [dBuV]	Factor [dB]	Level [dBuV]	Limit [dBuV]	Margin [dB]
62.751	70.7	-20.2	50.5	56.5	6.0
67.242	85.1	-20.2	64.9	69.5	4.6
71.739	69.1	-20.2	49.5	56.5	7.0

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ **Operating Mode : VCR RECORD(5V VITS)** **RF Output CH No. :3CH**

Frequency [MHz]	Reading [dBuV]	Factor [dB]	Level [dBuV]	Limit [dBuV]	Margin [dB]
56.752	71.4	-20.2	51.2	56.5	5.3
61.253	86.2	-20.2	66.5	69.5	3.5
65.753	70.3	-20.2	50.1	56.5	6.4

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ **Operating Mode : VCR RECORD(5V VITS)** **RF Output CH No. :4CH**

Frequency [MHz]	Reading [dBuV]	Factor [dB]	Level [dBuV]	Limit [dBuV]	Margin [dB]
62.739	70.8	-20.2	50.6	56.5	5.9
67.238	85.6	-20.2	65.4	69.5	4.1
71.741	69.6	-20.2	49.4	56.5	7.1

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

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■ **Operating Mode : VCR PLAY** **RF Output CH No. :3CH**

Frequency [MHz]	Reading [dBuV]	Factor [dB]	Level [dBuV]	Limit [dBuV]	Margin [dB]
56.753	71.4	-20.2	51.2	56.5	5.3
61.254	86.2	-20.2	66.0	69.5	3.5
65.753	70.3	-20.2	50.1	56.5	6.4

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ **Operating Mode : VCR PLAY** **RF Output CH No. :4CH**

Frequency [MHz]	Reading [dBuV]	Factor [dB]	Level [dBuV]	Limit [dBuV]	Margin [dB]
62.739	70.8	-20.2	50.6	56.5	5.9
67.244	85.6	-20.2	65.4	69.5	4.1
71.735	69.6	-20.2	49.4	56.5	7.1

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

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3.4 Output Terminal Conducted Spurious

Test Information		
	Test Engineer	Young Jin, Kim
	Test Date	November 26, 2005
	Climate Condition	Ambient Temperature : 23℃ Relative Humidity : 35%
	Test Place	Shied Room #1

Test Equipments

Equipment	Modal Name	Manufacturer	Serial No.	Calibration	
				Next Date	Interval
TV Signal Generator	PM5418-TDSI	PHILIPS	LO612437	2006-09-23	12
Pre-Amplifier	8447D	Agilent	2944A10430	2006-09-10	12
Field strength meter	ESCI	R&S	100136	2006-04-17	12
Matching Pad	RAM	R&S	860175/025	2006-02-26	12

EUT Test Setup

The RF output terminal was connected to the test receiver through the matching pad(75-50 ohm) with a cable. Then, the RF output signal level was measured under the EUT Operating mode(s).

Tested frequency range were from 30MHz to more than 4.6MHz below the visual carrier frequency, and from more than 7.4MHz above the visual carrier frequency to 1000MHz

Test Result

Measurement Results	Pass The measured emissions of the EUT have found to be below the specified limits.

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Test Data

■ **Operating Mode : DVD PLAY** **RF Output CH No. :3CH[Spurious Low]**

Frequency	Reading	Factor	Level	Limit	Margin
[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
42.956	26.2	-20.3	5.9	39.5	33.6
47.702	34.5	-20.3	14.2	39.5	25.3
55.917	33.6	-20.2	13.4	39.5	26.1

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ **Operating Mode : DVD PLAY** **RF Output CH No. :3CH[Spurious High]**

Frequency	Reading	Factor	Level	Limit	Margin
[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
74.707	31.9	-20.2	11.7	39.5	27.8
122.512	37.2	-19.9	17.3	39.5	22.2
860.543	31.5	-19.1	12.4	39.5	27.1

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ **Operating Mode : DVD PLAY** **RF Output CH No. :4CH[Spurious Low]**

Frequency	Reading	Factor	Level	Limit	Margin
[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
40.497	26.0	-20.3	5.7	39.5	33.8
53.793	34.5	-20.2	14.3	39.5	25.2
62.547	35.6	-20.1	15.4	39.5	24.1

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ **Operating Mode : DVD PLAY** **RF Output CH No. :4CH[Spurious High]**

Frequency	Reading	Factor	Level	Limit	Margin
[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
796.775	44.8	-19.3	25.5	39.5	14.0
801.265	52.9	-19.3	33.6	39.5	5.9
846.987	49.0	-19.1	29.9	39.5	9.6

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

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■ **Operating Mode : VCR REC(NTSC)** **RF Output CH No. :3CH[Spurious Low]**

Frequency	Reading	Factor	Level	Limit	Margin
[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
47.799	34.8	-20.3	14.5	39.5	25.0
49.329	25.9	-20.3	5.6	39.5	33.9
54.145	28.0	-20.2	7.8	39.5	31.7

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ **Operating Mode : VCR REC(NTSC)** **RF Output CH No. :3CH[Spurious High]**

Frequency	Reading	Factor	Level	Limit	Margin
[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
796.775	44.8	-19.3	25.5	39.5	14.0
801.265	53.5	-19.3	34.2	39.5	5.3
846.987	49.1	-19.1	30.0	39.5	9.5

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ **Operating Mode : VCR REC(NTSC)** **RF Output CH No. :4CH[Spurious Low]**

Frequency	Reading	Factor	Level	Limit	Margin
[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
40.641	26.7	-20.3	6.4	39.5	33.1
49.332	25.8	-20.3	5.5	39.5	34.0
53.695	34.4	-20.2	14.2	39.5	25.3

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ **Operating Mode : VCR REC(NTSC)** **RF Output CH No. :4CH[Spurious High]**

Frequency	Reading	Factor	Level	Limit	Margin
[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
796.755	44.9	-19.3	25.6	39.5	13.9
801.265	53.4	-19.3	34.1	39.5	5.4
846.987	49.1	-19.1	30.0	39.5	9.5

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

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■ **Operating Mode : VCR REC(1V VITS)** **RF Output CH No. :3CH[Spurious Low]**

Frequency	Reading	Factor	Level	Limit	Margin
[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
53.120	33.0	-20.3	12.7	39.5	26.8
54.067	33.4	-20.2	13.2	39.5	26.3
55.455	32.6	-20.2	12.4	39.5	27.1

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ **Operating Mode : VCR REC(1V VITS)** **RF Output CH No. :3CH[Spurious High]**

Frequency	Reading	Factor	Level	Limit	Margin
[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
796.765	44.8	-19.3	25.5	39.5	14.0
801.265	55.3	-19.3	36.0	39.5	3.5
847.037	54.1	-19.1	29.1	39.5	10.4

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ **Operating Mode : VCR REC(1V VITS)** **RF Output CH No. :4CH[Spurious Low]**

Frequency	Reading	Factor	Level	Limit	Margin
[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
53.745	34.9	-20.2	14.7	39.5	24.8
59.064	33.0	-20.2	12.8	39.5	26.7
60.149	32.7	-20.2	12.5	39.5	27.0

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ **Operating Mode : VCR REC(1V VITS)** **RF Output CH No. :4CH[Spurious High]**

Frequency	Reading	Factor	Level	Limit	Margin
[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
796.755	45.1	-19.3	25.8	39.5	13.7
801.265	54.6	-19.3	35.3	39.5	4.2
847.047	43.8	-19.1	24.7	39.5	14.8

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

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■ **Operating Mode : VCR REC(5V VITS)** **RF Output CH No. :3CH[Spurious Low]**

Frequency	Reading	Factor	Level	Limit	Margin
[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
53.102	34.6	-20.3	14.3	39.5	25.2
54.159	33.5	-20.2	13.3	39.5	26.2
55.322	32.9	-20.2	12.7	39.5	26.8

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ **Operating Mode : VCR REC(5V VITS)** **RF Output CH No. :3CH[Spurious High]**

Frequency	Reading	Factor	Level	Limit	Margin
[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
796.755	43.4	-19.3	24.1	39.5	15.4
801.265	54.1	-19.3	34.8	39.5	4.7
846.997	50.0	-19.1	30.9	39.5	8.6

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ **Operating Mode : VCR REC(5V VITS)** **RF Output CH No. :4CH[Spurious Low]**

Frequency	Reading	Factor	Level	Limit	Margin
[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
59.044	34.5	-20.2	14.3	39.5	25.2
60.189	31.2	-20.2	11.0	39.5	28.5
61.309	32.3	-20.2	12.1	39.5	27.4

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ **Operating Mode : VCR REC(5V VITS)** **RF Output CH No. :4CH[Spurious High]**

Frequency	Reading	Factor	Level	Limit	Margin
[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
796.765	43.4	-19.3	24.1	39.5	15.4
801.265	54.5	-19.3	35.2	39.5	4.3
846.997	50.1	-19.1	31.0	39.5	8.5

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

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■ **Operating Mode : VCR PLAY** **RF Output CH No. :3CH[Spurious Low]**

Frequency	Reading	Factor	Level	Limit	Margin
[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
47.793	34.7	-20.3	14.4	39.5	25.1
54.097	26.0	-20.2	5.8	39.5	33.7
56.603	40.6	-20.2	20.4	39.5	19.1

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ **Operating Mode : VCR PLAY** **RF Output CH No. :3CH[Spurious High]**

Frequency	Reading	Factor	Level	Limit	Margin
[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
796.755	43.4	-19.3	24.1	39.5	15.4
801.265	54.4	-19.3	35.1	39.5	4.4
846.997	50.2	-19.1	31.1	39.5	8.4

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ **Operating Mode : VCR PLAY** **RF Output CH No. :4CH[Spurious Low]**

Frequency	Reading	Factor	Level	Limit	Margin
[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
45.737	30.7	-20.3	10.4	39.5	29.1
53.697	34.4	-20.2	14.2	39.5	25.3
62.593	41.7	-20.2	21.5	39.5	18.0

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ **Operating Mode : VCR PLAY** **RF Output CH No. :4CH[Spurious High]**

Frequency	Reading	Factor	Level	Limit	Margin
[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
796.765	43.4	-19.3	24.1	39.5	15.4
801.265	54.5	-19.3	35.2	39.5	4.3
846.997	50.3	-19.1	31.2	39.5	8.3

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

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3.5 Antenna Transfer Switch Measurement

Test Information		
	Test Engineer	Young Jin, Kim
	Test Date	November 26, 2005
	Climate Condition	Ambient Temperature : 23℃ Relative Humidity : 35%
	Test Place	Shied Room #1

Test Equipments

Equipment	Modal Name	Manufacturer	Serial No.	Calibration	
				Next Date	Interval
TV Signal Generator	PM5418-TDSI	PHILIPS	LO612437	2006-09-23	12
Pre-Amplifier	8447D	Agilent	2944A10430	2006-09-10	12
Field strength meter	ESCI	R&S	100136	2006-04-17	12
Matching Pad	RAM	R&S	860175/025	2006-02-26	12

EUT Test Setup

The Antenna input terminal is connected to the test receiver through the matching pad (75 – 50 ohm) with a calibrated cable. Then, the RF output leakage level is measured under the EUT operating mode(s).

Test Result

Measurement Results	Pass The measured emissions of the EUT have found to be below the specified limits.

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Test Data

■ **Operating Mode : DVD PLAY** **RF Output CH No. :3CH**

Frequency	Reading	Factor	Level	Limit	Margin
[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
61.252	25.9	-20.2	5.7	9.5	3.8

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ **Operating Mode : DVD PLAY** **RF Output CH No. :4CH**

Frequency	Reading	Factor	Level	Limit	Margin
[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
67.239	25.7	-20.2	5.5	9.5	4.0

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ **Operating Mode : VCR REC(1V VITS)** **RF Output CH No. :3CH**

Frequency	Reading	Factor	Level	Limit	Margin
[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
61.256	25.4	-20.2	5.2	9.5	4.3

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ **Operating Mode : VCR REC(1V VITS)** **RF Output CH No. :4CH**

Frequency	Reading	Factor	Level	Limit	Margin
[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
67.243	25.6	-20.2	5.4	9.5	4.1

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

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■ **Operating Mode : VCR REC(5V VITS)** **RF Output CH No. :3CH**

Frequency	Reading	Factor	Level	Limit	Margin
[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
61.253	26.3	-20.2	6.1	9.5	3.4

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ **Operating Mode : VCR REC(5V VITS)** **RF Output CH No. :4CH**

Frequency	Reading	Factor	Level	Limit	Margin
[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
67.239	26.2	-20.2	6.0	9.5	3.5

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ **Operating Mode : VCR PLAY** **RF Output CH No. :3CH**

Frequency	Reading	Factor	Level	Limit	Margin
[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
61.253	25.7	-20.2	5.5	9.5	4.0

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

■ **Operating Mode : VCR PLAY** **RF Output CH No. :4CH**

Frequency	Reading	Factor	Level	Limit	Margin
[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
67.239	25.6	-20.2	5.4	9.5	4.1

* Factor = Preamp Gain + Matching Pad Loss + Cable Loss

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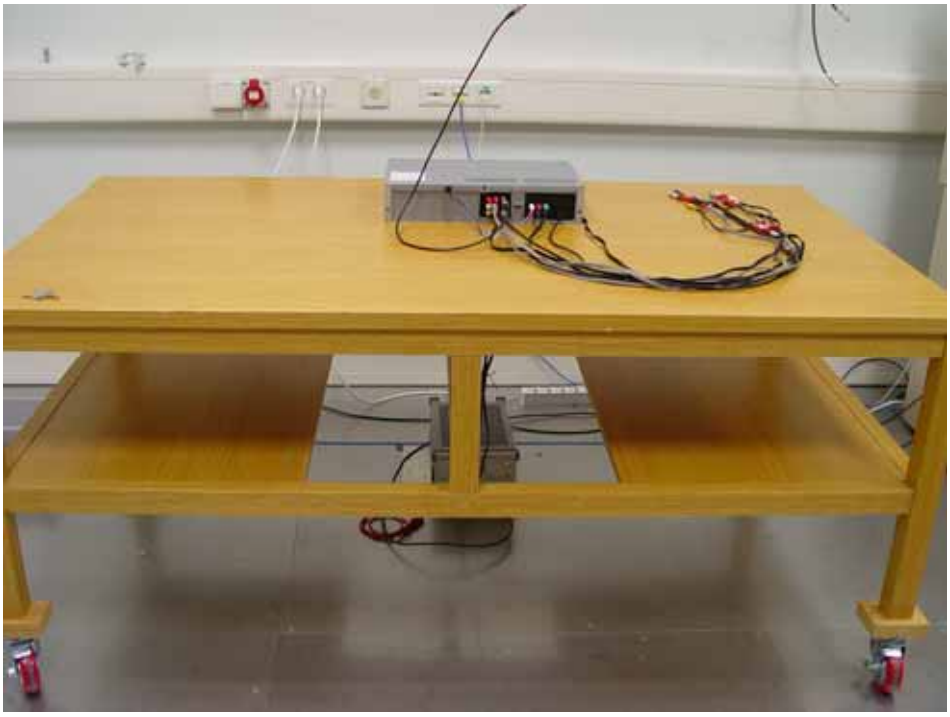
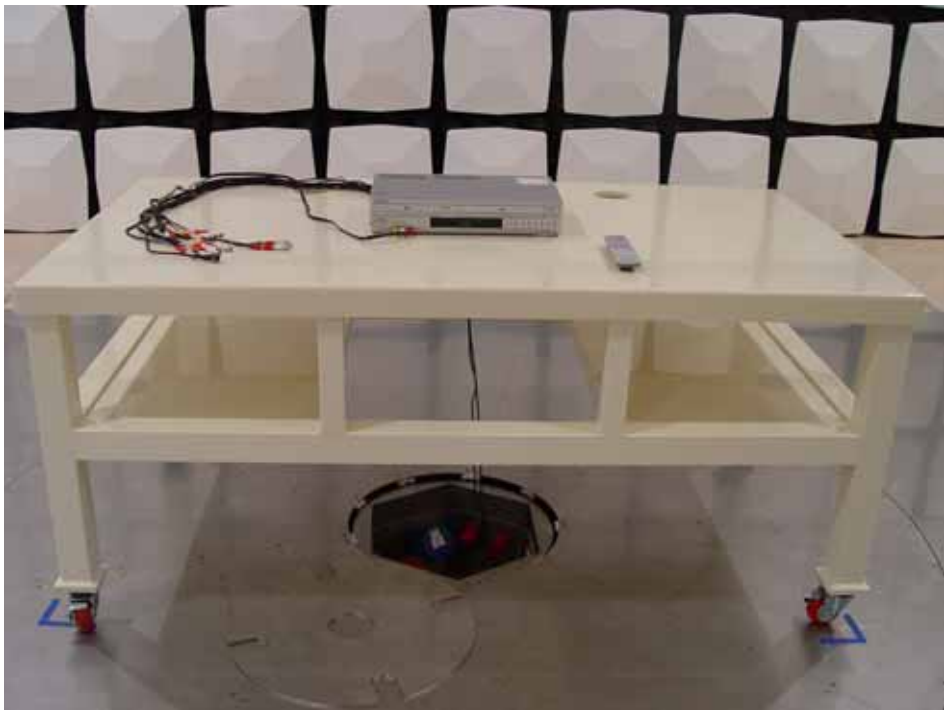
4. Appendix A

4.1 Test Photography



Picture 1. Conducted Emission (Rear)



Picture 2. Radiated Emission (Front)

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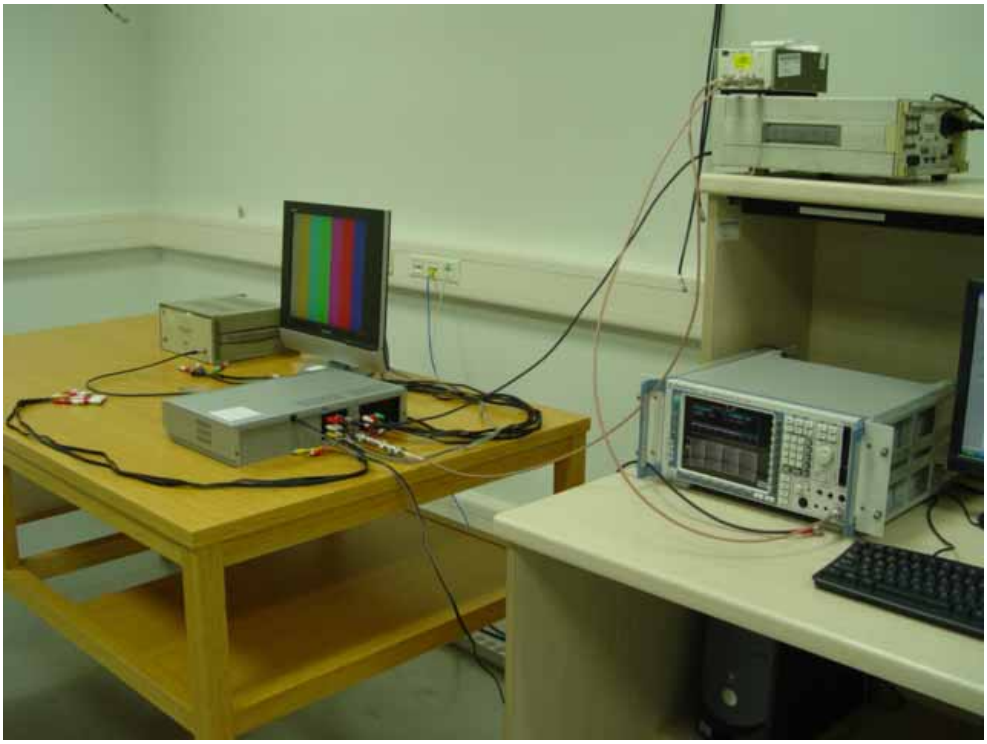
Picture 3. Radiated Emission (Rear)



Picture 4. Output Signal Level

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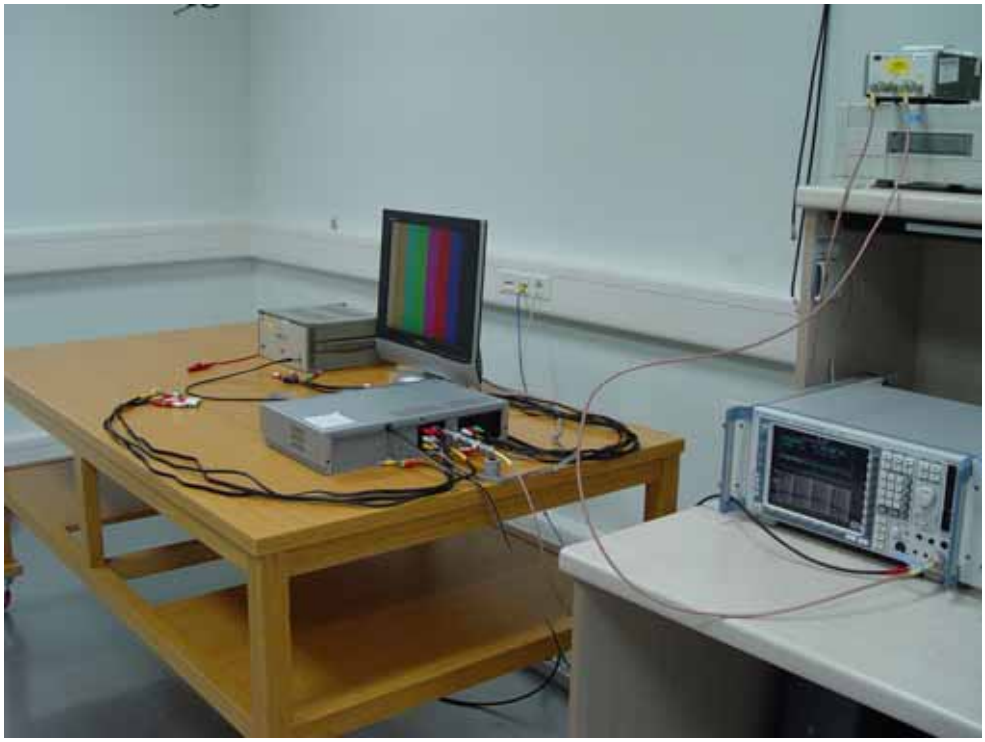
Picture 5. Output Terminal Conducted Spurious Emission



Picture 6. Ant. Transfer Switch

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4.2 EUT Photography

Picture 7. EUT (Front)

Picture 8. EUT (Rear)

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