

CERTIFICATE

Issued date : August. 10. 2002
EUT : Video Cassette Player
Model No. : ES191M Serial No. : N / A
FCC ID No. : BEJ9QKA20240
Manufacture : LG ELECTRONICS INC. Trade name : Zenith
Applicant& Address : LG Electronics Inc,
20 Yoido-Dong Youngdungpo-Gu, Seoul, 150-721 Korea
Regulation : Subpart B of Part 15, 47 C.F.R; FCC Rules (Docket 87-389)
Procedure : MP-3 ; ANSI C63.4
Test Location : LG Electronics Digital-media Research Lab.
Measurement facility (3 & 10 m site)

I hereby certify that the measurements shown in Part II of this report were made in accordance with the procedures indicated and energy emitted by this equipment was found to be within the limits applicable.

I further certify that on the basis of the measurements, the equipment tested is capable of operation in accordance with the requirements set forth in Part 15 of the FCC rules & Regulations under normal use and maintenance.

LG Electronics Inc. hereby assumes responsibility for the certification of compliance to applicable FCC limits in every measurements.

ISSUED BY



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REPORT FOR A TV INTERFACE DEVICE

Scope – Measurement and determination of electromagnetic emission (EME) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission.

RF MODULATOR

Manufacturer 1 : WITTIS.

Model No. : RF-VL3412AVS

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PART I

INTRODUCTION

1. GENERAL INFORMATION

1.1 DESCRIPTIONS OF EQUIPMENT UNDER TEST(EUT)

1.1.1	Manufacture	LG ELECTRONICS INC.; 19-1, CHEONGHO-RI JINWUY-MYUN,PYUNGTAEK-SHI,KYUNGGI-DO 451-713, KOREA
1.1.2	Applicant	LG ELECTRONICS INC.; 20, YOIDO-DONG YOUNGDUNGPO-GU, SEOUL, 150-721, KOREA
1.1.3	MODEL Name	ES191M
1.1.4	SERIAL NO	NOT ATTACHED
1.1.5	TRADE NAME	Zenith
1.1.6	FCC ID NO	BEJ9QKA20240
1.1.7	DESCRIPTIONS	
	a) Product Type	Video Cassette Player
	b) RF Output Channel	Channel 3 and 4
	c) RF IN/OUT Terminal Impedance	75 ohms (Unbalance F-type coaxial)
	d) Number of RF IN/OUT terminal	1EA at each
	e) Terminal for signal	Video/Audio in/out with RCA-type jacks
	f) Power Supply	DC 12V  , 850mA
1.1.8	Accessories connected to the EUT	
	a)	Video Coaxial cable for RF-OUT terminal provided by manufacture
	b)	Video/Audio cables

1.2 Regulations applied to the EUT .. FCC Part 15.115

1.3 Measurement ProcedureMP-3 : ANSIC 63.4

1.4 Measurement site description

- Location of measurement facility
LG Electronics Inc : Pyungtaek plant
Digital-Media Standards Team
19-1, Cheongho-Ri,Jinwuy-Myun,Pyungtak - Shi, 451-713 Korea

Note;

The detailed description of measuring facility was found to be in compliance
With Federal Communications Commission requirements of 2.948 according to
ANSI C63.4 on June 29, 2000 (Registration No. ; 90759)

2. GENERAL TEST CONDITIONS

The test data contained in this report was obtained by use of the measurement method recommended in FCC Rules, 47 C.F.R. 15.31(a)(3), with equipment and at the test site filed by the Federal Communications Commission (FCC). The technical standard for a TV interface device are set forth in Subpart B of Part 15 of FCC Rules and regulation. The measurement for Radiated Emissions, Power line Conducted Emissions, Output signal levels, Output Terminal Conducted Spurious Emissions and Transfer Switch Isolation were performed in accordance with the procedures described in MP-3 and ANSI C63.4-1992.

2. 1 OPERATING CONDITIONS OF THE EUT

According to the requirements in Subpart B of Part 15, the measurement is made at each function of the EUT being connected with appropriate cables and loads. The model, ES191M has either a video/audio output terminal in RCA-type plugs and antenna input terminal. Therefore, every measurement was investigated in the operation modes, 1) Playing VITS 1Vp-p recorded tape, 2) Recording 1 & 5 Vp-p VITS signal supplied through the video input terminal, 3) Recording NTSC TV signal supplied through the antenna input terminal at each Ch. 3 or/and 4 for each mode applicable.

2. 2 STABILIZATION OF EUT OPERATION

The EUT was operated for sufficient minutes before testing to make it stabilized in a normal operating condition. The power supplied to the EUT was filtered to meet the requirements.

2. 3 TEMPERATURE

Measurement procedure recommended by FCC requires the test to be performed at the site with ambient temperature within 10 to 40 degrees centigrade (50 to 104 F). The specification for operating temperature of EUT is from 5 to 35 degrees centigrade (41 to 95 F) as described in owner's manual. The measurement data in this report was obtained at the temperature in the range of 15 ~ 20 degrees centigrade.

3. TEST SITE

3. 1 OPEN AREA TEST SITE

Measurement of radiated emissions from EUT was made at open area test site, a description of which has been submitted to the FCC pursuant to Part 15 of 47 C.F.R., 2.948.

3. 2 A SHIELDED ENCLOSURE.

All other measurements, including power line conducted emissions, output signal levels, and transfer switch isolation, and transfer switch isolation were made in a shielded enclosure providing sufficient shielding effectiveness.

4. MEASURING INSTRUMENTATIONS AND CALIBRATIONS.

Measurements of output signal level, output terminal conducted spurious emissions, and transfer switch isolation (if applicable) were made with instruments calibrated according to the recommendation by manufacturer. Measurement of radiated emissions and power line conducted emissions were made with instruments conforming to American National Standard Specification, ANSI C63.4 (1992). The calibration of measuring instrument, including any accessories that may affect test results, was performed according to the recommendation by manufactures.

5. DESCRIPTION OF TEST CONDITION.

5.1 POWERLINE CONDUCTED EMISSION MEASUREMENT.

5.1.1 SHIELDED ENCLOSURE.

The measurement for power-line emissions from EUT was made in shielded enclosure which provides sufficient shielding effectiveness enough not to affect test results.

5.1.2 DETECTOR FUNCTION SELECTION AND BANDWIDTH.

During conducted emission measurement, a radio noise meter (ESH-3, Rohde & Schwarz) that has a CISPR quasi-peak detector with 9 KHz IF bandwidth of 6 dB was utilized.

5.1.3 FREQUENCY RANGE TO BE SCANNED.

For conducted emissions measurement, frequency range of 450 KHz to 30 MHz, included, was investigated.

5.1.4 UNIT OF MEASUREMENT.

Test results for conducted emissions are reported in micro-volts.

5.1.5 LINE IMPEDANCE STABILIZATION NETWORK

A LISN with characteristics that conform to the requirements of Part 15 of FCC Rules was used for the measurement of conducted power-line radio noise; (50 micro-henries /50 ohms). Chassis and earth-points for grounding of the LISN were earth-grounded.

5.1.6 TEST CONDITIONS AND CONFIGURATION OF THE EUT.

The EUT was configured and operated in all modes of operation so as to find the maximum emanation of emissions from EUT.

The EUT has designed to use the public AC lines with rated AC voltage as specified in Owner 's Manual of EUT and filtered to meet the requirement. AC power was supplied to the EUT through LISN with characteristics described in 5.1.5 of part I of this report.

The EUT was placed on a 1m *1.5m * 80Cm high of wooden table which is place on the earth- grounded conducting surface larger than 2 square-meter. The vertical conducting surface was located 40Cm to the EUT. Length of the power lead in excess of 80 Cm horizontally separating the EUT from LISN was folded back-and-forth form at the center of the power cord not exceeding 40 Cm in length.

Each type of accessory provided by manufacturer or typically used and support equipment were connected to the EUT during measurement to the typical usage and applicable as nearly as practicable.

5.2 RADIATED EMISSIONS MEASUREMENT..

5.2.1 TEST SITE.

Preliminary measurements were performed in the anechoic chamber to determine the emissions characteristics of the EUT. Final measurements were made in outdoors as described at 3.1 of Part I in this report.

5. 2. 2 DETECTOR FUNCTION SELECTION AND BANDWIDTH.

In radiated emissions measurement, a field strength meter (ESVP, Rohde & Schwarz) that has a CISPR quasi-peak detector was used. The 6dB bandwidth of the detector of instrument is 120 KHz over frequency range of 30 to 1000 MHz. Emissions to be scanned above 1000 MHz may be detected in peak mode.

5. 2. 3 UNIT OF MEASUREMENT.

Test results of radiated emissions measurement are reported in micro-volts per meter at the specific distance. Using the unit of dBuV on the test instrument, the indication unit was converted to field strength unit of uV/m as following method;

$$F(uV/m) = 10^{(R+CL+AF)/20} (dBuV/m)$$

here, F : Field Strength in uV/m

R : Meter Reading Level in dBuV,

CL : Cable Loss from antenna to meter in dB,

AF : Antenna Factor of receiving antenna in dB(/m)

5. 2. 4 ANTENNAS.

Measurements were made using calibrated half-wave tuned Bi-log antenna in range of 30 to 1000 MHz that are correctable to levels obtained with a tuned dipole antenna.

For emissions above 1000MHz, horn antenna may be used.

Measurements were also made for both horizontal and vertical polarization.

The horizontal distance between the receiving antenna and the closest periphery of the EUT was 3 meters as described in 8.2.3 of ANSI C63.4-1992.

5. 2. 5 FREQUENCY RANGE TO BE SCANNED.

For radiated emissions measurements, the spectrum in the range of 30 to 1000 MHz and above, if found, was investigated. The measurement for power-line emissions from EUT was made in shielded enclosure which provides

5. 2. 6 TEST CONDITIONS AND CONFIGURATION OF EUT.

The EUT was configured and operated in all modes of operation so as to find the maximum emanation of emissions from EUT.

The power was furnished with rated (normal) AC 120 volts, as specified in the Owner's Manual of EUT. The EUT was placed on the 80 Cm high of non-metallic table(1 *1.5 meter). The turn table containing the system was rotated and the antenna height was varied 1~4 m to find the maximum emanation of emissions from EUT.

Each type of accessory provided by manufacturer or typically used and support equipment were connected to the EUT during measurement to the typical usage and applicable as nearly as practicable.

5. 3 OUTPUT SIGNAL MEASUREMENT.

During measurements for output signal levels as the RF-out terminal, a spectrum analyzer was used with characteristics described at 4 and 9.3 of part I in this report.

5. 3. 1 OUTPUT SIGNAL LEVEL MEASUREMENT.

RF-out terminal of EUT is designed to feed modulated signals to a TV broadcast receiver via coaxial cable with 75 ohm of rated output impedance.

The output voltage of video carrier frequency at the RF-output terminal of the EUT was measured at each channel (CH. 3 & 4) connecting directly to a spectrum analyzer with 50 ohm input impedance via 75-to-50 ohm matching pad. Indicated voltage on screen of measuring instrument was converted to the voltage of 75 ohm system.

- Data conversion method.

$$V_{75}[\mu V] = 10^{\frac{(V_r + CF)}{20}} \quad [dBuV]$$

here, V_{75} : Voltage at the RF-out terminal of 75 ohm in μV
 V_r : Voltage read at analyzer with 50 ohm input-impedance in dBuV
 CF : Conversion Factor of the matching pad in dB.

5.3.2 OUTPUT TERMINAL CONDUCTED SPURIOUS EMISSION MEASUREMENT.

Any other spectrum at RF-output terminal appearing on frequencies removed by more than 4.6 MHz below or 7.4 MHz above the video carrier frequency of EUT was searched at each channel.

To clarify the emissions emanated from RF output terminal of the EUT, RF pre-amplifier was utilized. The gain of pre-amplifier at each frequency measured from EUT were obtained after sufficient warm-up for stabilization of gain.

- * Data conversion method.

$$V_{75}[\mu V] = 10^{\frac{(V_r + CF - PG + AT)}{20}} \quad [dBuV]$$

Where, V_{75} : Voltage at the RF-out terminal of 75 ohm in μV ,
 V_r : Voltage read at analyzer with 50 ohm input-impedance in dBuV
 CF : Conversion Factor of the matching pad in dB,
 PG : Gain of pre-amplifier in dB,
 AT : Attenuation of attenuator in dB.

5.4 TRANSFER SWITCH ISOLATION MEASUREMENT.

As a transfer switch was equipped with EUT as an antenna-in, measurement of isolation were made at RF-input terminal with rated input impedance.

The maximum voltage of video carrier frequency of the EUT at the antenna input (RF-in) terminal of the switch was measured for both channels.

To clarify the emissions emanated from RF output terminal of the EUT, RF pre-amplifier was utilized. The gain of pre-amplifier at each frequency measured from EUT were obtained after sufficient warm-up for stabilization of gain.

* DATA CONVERSION METHOD.

$$V_{75}[\text{uV}] = 10^{(V_r + CF - PG + AT)/20} [\text{dBuV}]$$

where, V_{75} : Voltage at the RF-out terminal of 75 ohm in uV
 V_r : Voltage read at analyzer with 50 ohm input-impedance in dBuV
 CF : Conversion Factor of the matching pad in dB,
 PG : Gain of pre-amplifier in dB,
 AT : Attenuation of attenuator in dB.

6. MEASURING INSTRUMENTS AND SET-UP.

6.1 POWERLINE CONDUCTED EMISSIONS.

6.1.1 Radio Noise Meter.

Rohde & Schwarz, Model ESCS { 9 KHz to 2750 MHz }

Detector function : CISPR Quasi-Peak
 IF Bandwidth : 9 KHz

6.1.2 Line Impedance Stabilization Network (LISN).

Kyoritsu, Model KNW-407
 Impedance Characteristic : 50 uH / 50 ohm

6.2 RADIATED EMISSIONS.

6.2.1 Field Strength Meter.

Rohde & Schwarz, Model ESVS 30 { 20 MHz to 1000 MHz }
 ESMI { 20 Hz to 26.5 GHz }

Detector function : CISPR Quasi-Peak
 IF Bandwidth : 120 KHz

6.2.2 Receiving Antennas.

- a) Chase, Model CBL611A : Bilog antenna { 30 to 1000 MHz }
- b) Schwarzbeck, Model BBA9102-B : Horn antenna { 1 GHz to 9.5 GHz }

6.3 OUTPUT SIGNAL MEASUREMENTS.

6.3.1 Spectrum Analyzer.

Hewlett-Packard, Model HP8568B
 Span : 10 MHz SWP : 20 msec.
 RBW : 100 KHz VBW : 300 KHz

6.3.2 RF Pre-amplifier.

Hewlett-Packard, Model HP8447F : 25 dB (typical gain)

6.3.3 Impedance matching pad.

Rohde & Schwarz, Model RAM : 7.5 dB loss , from 75 ohm to 50 ohm

6.3.4 Attenuator.

Rohde & Schwarz, Model DNF (N type) : 3 dB attenuation

6.4 TRANSFER SWITCH ISOLATION MEASUREMENTS.

6.4.1 Spectrum Analyzer.

Hewlett-Packard, Model HP8568B
Span : 1 MHz SWP : 30 msec.
RBW : 10 KHz VBW : 30 KHz

6.4.2 RF Pre-amplifier.

Hewlett-Packard, Model HP8447F : About 25 dB

6.4.3 Impedance matching pad.

Rohde & Schwarz, Model RAM : 7.5 dB loss , from 75 ohm to 50 ohm

6.4.4 Attenuator.

Rohde & Schwarz, Model DNF (N type) : 3 dB attenuation

6.5 VITS SIGNAL GENERATOR ; COMMONLY USED.

Anritsu, Model MG-318A : VITS 1 Vp-p, 5 Vp-p Generator.

[NOTE] 1) The list of instruments and accessories used the measurements are attached at the end of the report, Appendix A and B

2) In every test results, the margins against the limits are shown.
The margins are calculated as following;

$$\text{MARGIN[dB]} = 20\log(R/L)$$

where, R : Corrected Results, [uV] or [uV/m],
L : Corresponding Limit, [uV] or [uV/m]

3) The tight limit is applied at the edge of two frequency band.

Part II

TEST DATA

1. POWER LINE CONDUCTED EMISSIONS (*15.107)

PRODUCT : Video Cassette Player
MODEL Name : ES191M
Modulator Maker : WITTIS.
Modulator type : RF-VL3412AVS
TEST DATE : Aug. 5th 2002

1.1) WITTIS Modulator (RF-VL3412AVS) Data;

<i>Frequency</i> <i>(MHz)</i>	<i>Reading</i> <i>[dBuV]</i>	<i>RF Voltage</i> <i>[uV]</i>	<i>Phase</i> <i>(A/B)</i>	<i>Limit</i> <i>[uV]</i>	<i>Margin [dB]</i> <i>Q-peak</i>
20.00	23.4	14.8	B	250.0	-24.6
28.64	33.8	49.0	A	250.0	-14.2
29.50	32.5	42.2	B	250.0	-15.5
30.00	31.1	35.9	B	250.0	-16.9

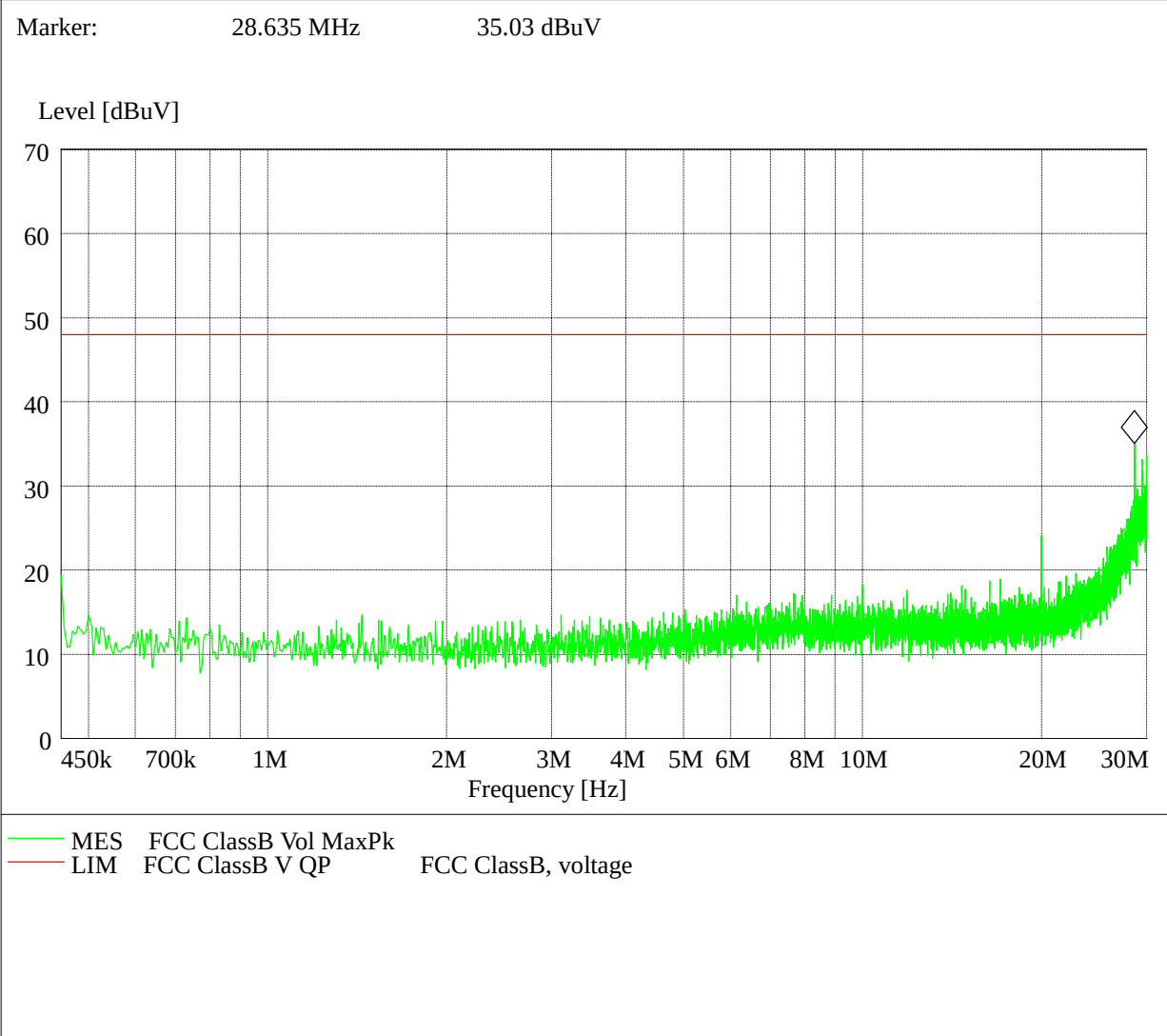
* Sample Calculation at 0.66MHz = $10^{(23.4/20)} = 14.8 \text{ uV}$

NOTES:

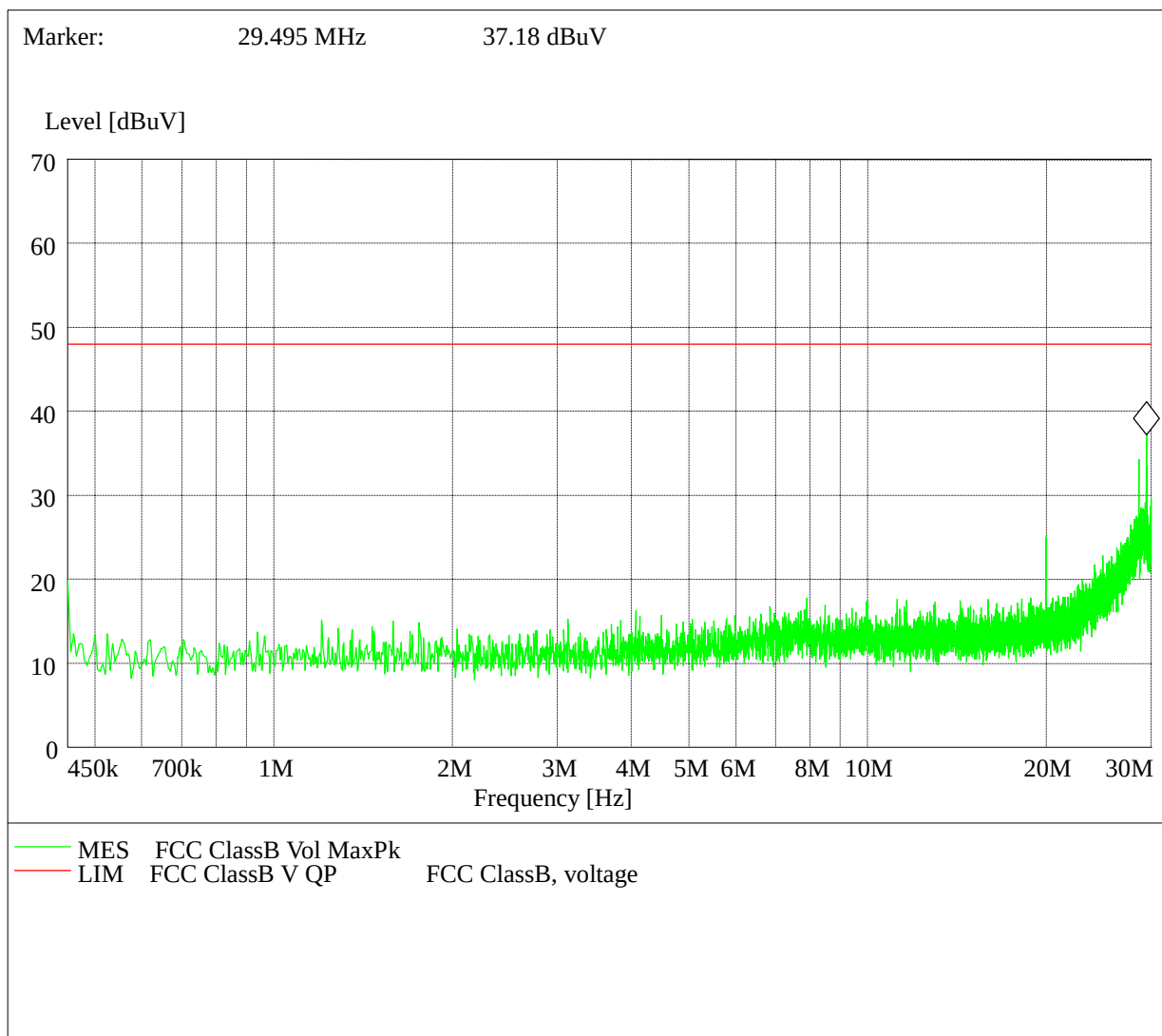
1. All modes of operation were investigated. The RF modulator was switched to Channel 3 or 4 and worst-case emissions are reported
2. All other emissions are non-significant.
3. Phase A = Hot Phase B = Neutral

1.2) WITTIS Modulator(RF-VL3412AVS) Data;

1.2-1) Line : Va



1.2-2) Line : Vb



2.RADIATED EMISSIONS (*15.109)

PRODUCT : Video Cassette Player
MODEL Name : ES191M
Modulator Maker : WITTIS.
Modulator type : RF-VL3412AVS
TEST DATE : Aug. 6th, 2002

2.1) WITTIS Modulator (RF-VL3412AVS) Data ;

<i>FREQ.</i> <i>[MHz]</i>	<i>Reading</i> <i>[dBuV]</i>	<i>AF</i> <i>[dB/m]</i>	<i>CL</i> <i>[dB]</i>	<i>Pol.</i> <i>(Hor / Ver)</i>	<i>F/S</i> <i>[uV/m]</i>	<i>Limit</i> <i>[uV/m]</i>	<i>Margin</i> <i>[dB]</i>
30.0	8.6	18.00	0.79	Ver	23.4	100	-12.6
40.0	12.7	12.90	0.99	Ver	21.4	100	-13.4
129.1	13.5	12.10	1.71	Ver	23.2	150	-16.2
225.5	10.8	10.75	2.28	Ver	15.5	200	-22.2

$$\frac{[(8.6+18.0+0.79)/20]}{10} = 23.4 \text{ uV/m}$$

* Sample Calculation at 33.8 MHz = 10

NOTES:

1. All modes of operation were investigated. The RF modulator was switched to Channel 3 or 4 and worst-case emissions are reported.
2. All other emissions are non-significant.
3. AF = Antenna factor CL = Cable loss F/S = Field Strength

3.OUTPUT TERMINAL SIGNAL LEVEL (* 15.115)

PRODUCT : Video Cassette Player
 MODEL Name : ES191M
 Modulator Maker : WITTIS.
 Modulator type : RF-VL3412AVS
 TEST DATE : Aug. 7th 2002

3.1) WITTIS Modulator (RF-VL3412AVS) Data;

CH	Frequency (MHz)	Reading [dBuV]	M/P Loss (dB)	RF Voltage [uV]	Limit [uV]	Margin [dB] Q-peak
3 (Visual)	61.23	59.23	7.5	2170.20	3000	-2.8
3 (Aural)	66.78	44.87		415.43	671	-4.2
4 (Visual)	67.23	59.85	7.5	2330.77	3000	-2.2
4 (Aural)	71.78	45.15		429.04	671	-3.9

$$* \text{ Sample Calculation at 61.23 MHz} = 10^{\frac{[(59.23+7.5)/20]}{20}} = 2170.2 \text{ uV}$$

NOTES:

1. All modes of operation were investigated and worst -case emissions are reported.
2. Output Impedance of RF-Output Terminal : 75 ohm
3. MP = Impedance Matching Pad

4. OUTPUT TERMINAL CONDUCTED SPURIOUS EMISSIONS

PRODUCT : Video Cassette Player
 MODEL Name : ES191M
 Modulator Maker : WITTIS.
 Modulator type : RF-VL3412AVS
 TEST DATE : Aug. 8th 2002

4.1) WITTIS Modulator (RF-VL3412AVS) Data ;

CH	Frequency (MHz)	Reading [dBuV]	M/P Loss [dB]	PreAmp Gain [dB]	Attn. [dB]	Output Level [uV]	Limit [uV]	Margin [dB]
3	129.4	37.49	7.5	27.4	3.0	10.7	95	-19.0
	190.1	49.14		27.0		42.9		-6.9
	311.3	34.39		26.7		8.1		-21.4
4	141.6	38.90	7.5	25.5	3.0	15.7	95	-15.7
	207.0	45.78		24.6		38.4		-7.9
	342.8	34.41		25.3		9.6		-19.9

$$\begin{aligned}
 & \text{[(37.49+7.5-27.4+3.0)/20]} \\
 * \text{ Sample Calculation at 129.4 MHz} &= 10 \quad = 10.7 \text{ uV}
 \end{aligned}$$

NOTES:

1. Frequency range of 30 MHz to 1000 MHz removed by more than 4.6 MHz below or 7.4 MHz above the video carrier frequency of EUT was investigated at each channel.
2. All other emissions are not significant.

5.TRANSFER SWITCH ISOLATION (* 15.115)

PRODUCT : Video Cassette Player
 MODEL Name : ES191M
 Modulator Maker :WITTIS.
 Modulator type : RF-VL3412AVS
 TEST DATE : Aug. 8th 2002

5-1) WITTIS Modulator (RF-VL3412AVS) Data;

CH	Frequency (MHz)	Reading [dBuV]	M/P Loss [dB]	PreAmp Gain [dB]	Attn. [dB]	Output Level [uV]	Limit [uV]	Margin [dB]
3	61.225	17.42	7.5	27.5	3.0	1.05	3.0	-9.1
4	67.225	22.23	7.5	27.6	3.0	1.81	3.0	-4.4

$$\begin{aligned}
 & \text{[(17.42+7.5-27.5+3.0)/20]} \\
 * \text{ Sample Calculation at 61.225 MHz} &= 10 \qquad \qquad \qquad = 1.05 \text{ uV}
 \end{aligned}$$

NOTES:

1. The transfer switch is internal to the device and is access automatically.
2. The transfer isolation switch provides automatic selection of either antenna/TV or VCR.

Appendix A

Photograph of Test Set-up (Power line conducted emissions)



Photographs of Test Set-up (Radiated emissions)



Appendix B

LIST OF TEST EQUIPMENT

Type	Model	Cal. Due Date	S / N
EMI measurement system	R&S, ESMI	09/04/02	846064/004
Test receiver	R&S, ESCS 30	09/04/02	842807/002
Test receiver	R&S, ESCS	03/05/03	100093
Spectrum Analyzer	HP8568B	07/03/03	3107A01571
Quasi-peak Adaptor	HP85650A	07/03/03	3107A01237
RF Pre-selector	HP85685A	07/03/03	3107A01237
Pre-Amplifier	HP8447F	07/03/03	2805A02879
	(BNC-type)		
Pre-Amplifier	HP8447F (N-type)	07/01/03	3113A05259
Pre-Amplifier	HP8447C (N-type)	07/03/03	1937A00732
RF Signal Generator	Fluk, 6060B	07/03/03	5655209
IRE STD. signal Generator	Shibasoku, VG 40A	03/05/03	M-56221002
TV CH. Signal Generator	Shibasoku, 363US	03/05/03	M-14817005
TV CH. Signal Generator	Shibasoku, 363VS	03/05/03	M-12762002
NTSC Pattern Generator	Leader, LCG-400	03/14/03	705008
VITS Generator	Anritsu, MG318A	10/03/02	M11122
VITS Generator	Anritsu, MG318A	02/23/03	M10478
Tuned Dipole Antenna	EMCO, 3121C	07/26/03	9160-620
Tuned Dipole Antenna	EMCO, 3121C	07/26/03	9160-621
VHF Dipole Antenna	S/B, VHA9103		N/A
UHF Dipole Antenna	S/B, UHA9105		N/A
Bilog Antenna	Chase, CBL611A	10/11/02	1838
Biconical Antenna	R&S, HUF-Z2	10/11/02	N/A
Biconical Antenna	S/B, BBA9106	07/21/03	N/A
Biconical Antenna	S/B, BBA9106	07/21/03	N/A
Log-periodic Antenna	S/B, UHAL9107	10/11/02	N/A
Log-periodic Antenna	S/B, UHAL9107	07/21/03	N/A
Log-periodic Antenna	EMCO, 3146	07/21/03	1583
Horn Antenna	S/B, BBA 9102-B	10/11/02	106
Laurel Antenna			N/A
IEC 106 Antenna	HFU2-Z4		N/A
Absorbing Clamp	R&S, MDS21	10/25/02	860846/004
Absorbing Clamp	R&S, MDS21	07/21/03	301116/072
Kyoritsu LISN	KNW-407	07/05/03	8-6555-4
Shibasoku LISN	563	07/03/03	55416001
R & S LISN	ESH3-Z5	07/03/03	862770/013
Schwarzbeck LISN	NSLK8126	07/05/03	8126259

Appendix C

List of Support Device and Accessories in the test

1. EUT : Video Cassette Player

Model : ES191M S / N : N/A

2. Accessories

1.5 m. unshielded RF coaxial cable supplied by manufacturer (1 EA)

1.5 m. unshielded RCA cables for Video/Audio

IEC-106 Antenna

3. TV Monitor

Model : CRN-6285 S/N : 30600720

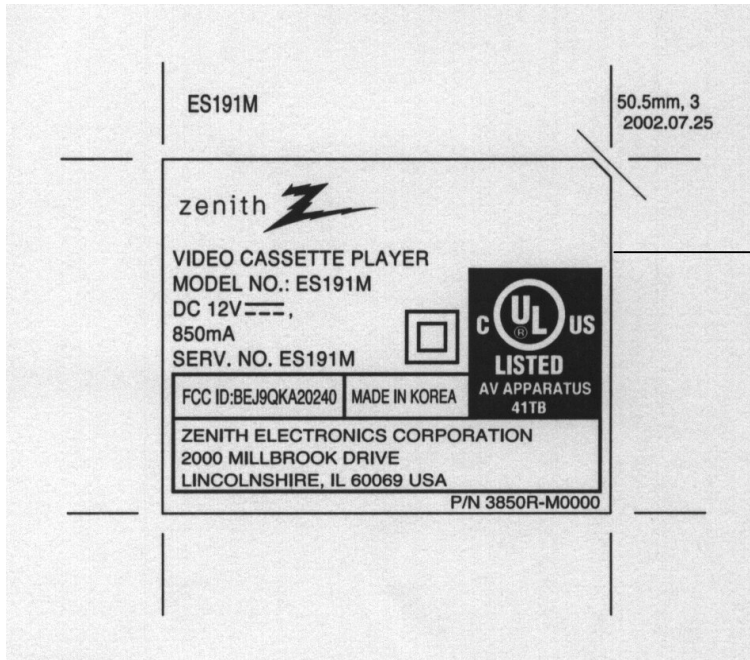
4. VITS Signal Generator

Anritsu, Model MG-318A : VITS 1 Vp-p, 5 Vp-p Generator.

Appendix D

SAMPLE LABEL :

According to Labeling Requirements per * 2.295 & * 15.19



The Label shown shall be affixed
On the rear of the device.
See the attached photograph.

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES.
OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS:
1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE AND
2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED INCLUDING
INTERFERENCE THAT MAY CAUSE UNDESIRED OPERATION.

The statement is molded on the backside of the device.
See the attached photograph