EMC TEST REPORT

Test Report No. : 22IE0009-KT-1

Applicant :	ORION ELECTRIC CO., LTD.
Type of equipment :	DVD / VCR
Model number :	HR-XVC1U
Test standard :	FCC Part 15 Subpart B
Test result :	Complied

- 1. This test report shall not be reproduced except in full, without the written approval of A-PEX International Co. Ltd.
- 2. The results in this report apply only to the sample tested.
- 3. This equipment is in compliance with above regulation. We hereby certify that the data contain a true representation of the EMC profile.
- 4. The test results in this test report are traceable to the national or international standards.

Date of test : April 10 to April 16, 2002

Tested by:

Yoshiyuki Arakawa

Yoshiyuki Arakawa Engineer

Approved by:

Kazutoshi Hatta

Site assistant manager

waki

Ichiro Isozak Engineer

Date of issue : April 17, 2002

Contents

Page

Client information	3
Equipment under test (E.U.T.)	3
Test specification, methods & procedures	5
Operation of E.U.T. during tests	6
Summary of test results	7
Test instruments	9
Conducted interference	10
Radiated emission	13
Antenna terminal voltage	16
RF output level / spurious emission	17
Antenna transfer switch	18
Picture sensitivity	19
Noise figure	20
Photographs of test set up	21
Data of EMI tests	29
	Equipment under test (E.U.T.)Test specification, methods & proceduresOperation of E.U.T. during testsSummary of test resultsTest instrumentsConducted interferenceRadiated emissionAntenna terminal voltageRF output level / spurious emissionAntenna transfer switchPicture sensitivityNoise figurePhotographs of test set up

Section 1 : Client information

Company name	:	ORION ELECTRIC CO., LTD.
Brand name	:	JVC
Address	:	41-1 Iehisa-cho, Takefu-shi, Fukui 915-8555 JAPAN
Telephone number	:	+81-778-23-0019
Facsimile number	:	+81-778-23-7799
Contact person	:	Hiroshi Tsujimoto Section manager Engineering headquarters Administration section

Section 2 : Equipment under test (E.U.T.)

2.1 Identification of E.U.T.

Type of equipment	:	DVD / VCR
Model number	:	HR-XVC1U
Rating	:	AC 120 V / 60 Hz
Manufacturer	:	 WORLD ELECTRIC (THAILAND) LTD. 236 Moo 2 Nongchark, Banbung, Chonburi 20170, Thailand KORAT DENKI LTD. 149 Moo 10 Thombol Chokchai, Amphur Chokchai, Nakhonratchasima 30190, Thailand ORION AMERICA, INC. Hwy 41 North, Orion Place, Princeton, Indiana 47670, U.S.A
Receipt Date of Sample	:	April 08, 2002
Condition of EUT	:	Production Prototype

2.2 Product description

ORION ELECTRIC CO., LTD., Model: HR-XVC1U (referred to as the EUT in this report) is a DVD/VCR. The EUT specifications is as follows.

Tuner type	:	Quartz PLL frequency synthesized
I/F	:	45.75 MHz (Picture), 41.25 MHz (Sound)
Receiving channel	:	VHF 2 – 13 ch / UHF 14 – 69 ch / CATV 1 – 125 ch
Antenna input	:	75 ohm
Video signal	:	NTSC color
Power source	:	AC 120 V / 60 Hz, 20 W
I / O terminal (Video)	:	RCA in 1Vp-p 75 ohm, RCA out 1 Vp-p 75 ohm
I / O terminal (Audio)	:	RCA in -8 dB 50 k ohm, RCA out -8 dB 1 k ohm

2.3 Product description

There are similar apparatus for the EUT as follows.

HR-XVC1U/M HR-XVC1UC HR-XVC1UC/M

Section 3 : Test specification, methods & procedures

3.1 Test specification

Test specification: FCC Part 15 Subpart B

 Title
 : FCC 47 CFR Part15 Radio Frequency Device

 Subpart B Unintentional Radiators (Subpart C Intentional Radiators)

3.2 Methods & procedures

No.	Item	Test procedure	Limits	Remarks
1	Conducted interference	ANSI C63.4:1992	250 uV	LISN
		IEEE 213:1987		
		IEEE 187:1990		
2	Radiated emission	ANSI C63.4:1992	30-88 MH: 100 uV/m	3 m
		IEEE 213:1987	88–216 MHz: 150 uV/m	
		IEEE 187:1990	216–960 MHz: 200 uV/m	
			above 960 MHz: 500 uV/m	
3	Antenna terminal voltage	ANSI C63.4:1992	2 nW (at 75 ohm)	-
		IEEE 213:1987		
		IEEE 187:1990		
4	RF output level	ANSI C63.4:1992	Video signal: 3000 uV	_
		IEEE 213:1987	Aural signal: 671 uV	
	Spurious emission	IEEE 187:1990	94.8 uV	-
5	Transfer switch	ANSI C63.4:1992	9.5 dB	-
		IEEE 213:1987		
		IEEE 187:1990		
6	Picture sensitivity	ANSI C63.4:1992	8 dB	-
		IEEE 213:1987		
		IEEE 187:1990		
7	Noise figure	FCC/OET	14 dB	-
		MP:2:1986		

3.3 Additions or deviations to standard

No addition, deviation nor exclusion have been made from standards.

Section 4 : Operation of E.U.T. during tests

4.1 **Operating modes**

The EUT exercise program used during testing was designed exercise the various system components in a manner similar to typical use.

The sequence in	used : * Receive mode (0 dBmV input / 25 dBmV input) * AV input mode (1 Vp-p input / 5 Vp-p input) * VCR playback mode * DVD play mode
Operation :	The EUT tested above operation mode (Using a video tape with a typical TV signal recorded on it, if necessary.)

Justification : The system was configured in typical fashion (as a customer would normally use it) for testing.

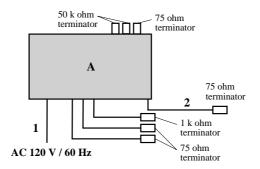
4.2 Configuration and peripherals

Front View



* Cabling was taken into consideration and test data was taken under worse case conditions.

Top View



* Cabling was taken into consideration and test data was taken under worse case conditions.

Description of EUT and support equipment

Sign	Item	Model number	Serial number	Manufacturer
Α	DVD/VCR	HR-XVC1U	-	ORION ELECTRIC CO., LTD.
В	Remote Controller	-	_	ORION ELECTRIC CO., LTD.

Meshed column are represented

List of cable used

No.	Item	Length (m)	Shielding	Manufacturer
1	AC power cable	1.8	Unshielded	-
2	RF output cable	1.0	Shielded	Supplies accessory

A-pex International Co., Ltd. Kanto Office EMC Laboratory.

Section 5 : Summary of test results

5.1 Test results

No.	Item	Test procedure	Limits	Worst margin	Results
1	Conducted interference	ANSI C63.4:1992	250 uV	7.2 dB	Passed
		IEEE 213:1987		(0.45 MHz)	
		IEEE 187:1990			
2	Radiated emission	ANSI C63.4:1992	30–88 MHz: 100 uV/m	6.3 dB	Passed
		IEEE 213:1987	88–216 MHz: 150 uV/m	(1694 MHz)	
		IEEE 187:1990	216–960 MHz: 200 uV/m		
			above 960 MHz: 500 uV/m		
3	Antenna terminal voltage	ANSI C63.4:1992	2 nW (at 75 ohm)	12.0 dB	Passed
		IEEE 213:1987		(1693.6 MHz)	
		IEEE 187:1990			
4	RF output level	ANSI C63.4:1992	Video signal: 3000 uV	4.1 dB	Passed
		IEEE 213:1987	Aural signal: 671 uV	(61.25 MHz)	
	Spurious emission	IEEE 187:1990	94.8 uV	23.9 dB	Passed
				(54.14 MHz)	
5	Transfer switch	ANSI C63.4:1992	9.5 dB	8.4 MHz	Passed
		IEEE 213:1987		(61.25 MHz,	
		IEEE 187:1990		67.25 MHz)	
6	Picture sensitivity	ANSI C63.4:1992	8 dB	_	Passed
		IEEE 213:1987			
		IEEE 187:1990			
7	Noise figure	FCC/OET	14 dB	5.8 dB	Passed
		MP:2:1986		(615.25 MHz,	
				651.25 MHz)	

A-PEX INTERNATIONAL hereby confirms that E.U.T., in the configuration tests, complies with the specifications FCC Part15 Subpart B.

5.2 Test instruments

Please refer to the list of test instruments in Section 6.

5.3 Test location

A-PEX International Co., Ltd. Kanto office EMC Laboratory
Newstage Yokohama Bidg. 1F 1-1-32 Shin-Urashima-cho, Kanagawa-ku, Yokohama-shi, Kanagawa, 221-0031 JAPAN
TEL : +81-45-450-1515
FAX : +81-45-450-1534

A-PEX International Co., Ltd. Yamakita Laboratory 907 Kawanishi Yamakita-machi, Ashigarakami-gun, Kanagawa 258-0124 JAPAN TEL : +81-465-77-1011 FAX : +81-465-77-2112

A-pex International Co., Ltd. Kanto Office EMC Laboratory.

Test report No.:22IE0009-KT-1Page:8 of 92Date of issue:April 17, 2002

5.4 Photographs of test set up

Please refer to Appendix 1.

5.5 Test data

Please refer to Appendix 2.

Instruments	Manufacturer	Model No.	Control No.	Test Item	Calibration date	Validity
LISN	Schwarzbeck	NSLK8127	APLSN05	CE	January 10, 2002	January 09, 2003
Test receiver	Rohde & Schwarz	ESS	APRCV05	CE	June 04, 2001	June 03, 2002
Coaxial cable	Fujikura	5D2W	APCBL02	CE	August 07, 2001	August 06, 2002
TV generator	Leader	408	APTVG04	CE, RF	Pre check	-
Spectrum analyzer	Advantest	R3265	APSPA04	CE, AT TS, RF	October 12, 2001	October 11, 2002
Pre amplifier	Hewlett Packard	8449B	APPRA05	AT	August 09, 2001	August 08, 2002
Matching pad	TME	ZT-130	APMAT05	AT, RF	December 26, 2001	December 25, 2002
Pre amplifier	Anritsu	MH648A	APPRA01	AT, RF	August 09, 2001	August 08, 2002
Coaxial cable	Fujikura	5D2W	APCBL06	TS, RF	August 07, 2001	August 06, 2002
Coaxial cable	Fujikura	5D2W	APCBL07	TS, RF	August 07, 2001	August 06, 2002
Signal generator	Rohde & Schwarz	SMY01	YTSSG02	PS	May 07, 2001	May 06, 2002
Oscillo scope	Tektronix	TDS410A	APOSC01	PS	April 27, 2001	April 26, 2002
Band Pass Filter	Erika Fiedlar	BP	APBPF01	PS	Pre check	
Matching pad	TME	ZT-204	APMAT04	PS, NF	December 26, 2001	December 25, 2002
Noise figure indicator	Elena	ENF-2005	APNFM01	NF	September 27, 2000	September 26, 2002
Noise source	Elena	MC1100	APNFS01	NF	September 27, 2000	September 26, 2002

Section 6 : Test instruments

Instruments	Manufacturer	Model No.	Control No.	Test Item	Calibration date	Validity
Pre amplifier	Hewlett Packard	8447D	KAF-01	RE	August 25, 2001	August 24, 2002
Pre amplifier	Hewlett Packard	8449B	KAF-02	RE	August 30, 2001	August 29, 2002
Attenuator	INMET	18N-6 dB	KAT6-01	RE	September 03, 2001	September 02, 2002
Biconical antenna	Schwarzbeck	BBA9106	KBA-01	RE	August 31, 2001	August 30, 2002
Coaxial cable	Fujikura / Suhner	8D-2W, 12D-SFA, S04272B	KCC-10, 11, 12, 13, 18	RE	September 05, 2001	September 04, 2002
Coaxial cable	Suhner / Storm	SCOFLEX 103, 90-388-020	KCC-D1, D2	RE	September 05, 2001	September 04, 2002
Horn antenna	A.H.System	SAS-200/571	KHA-01	RE	July 07, 2001	July 06, 2002
Logperiodic antenna	Schwarzbeck	USLP9143	KLA-01	RE	March 08, 2002	March 07, 2003
Loop antenna	Rohde & Schwarz	HFH2-Z2	KLP-01	RE	July 13, 2001	July 12, 2002
Open area test site	JSE	30 m	KOTS-01	RE	August 27, 2001	August 26, 2002
Spectrum analyzer	Advantest	R3365	KSA-01	RE	July 20, 2001	July 19, 2002
Test receiver	Rohde & Schwarz	ESCS30	KTR-02	RE	December 17, 2001	December 16, 2002
Pattern generator	Reader Electronics	408NPS	KTV-01	RE	December 03, 2001	December 02, 2002
Video booster	-	-	APVBT01	RE	Pre check	

* The abbreviation in the test item column stands for:

CE: Conducted emission, RE: Radiated emission, AT: Antenna terminal voltage,

RF: RF output level / spurious emission, PS: Picture sensitivity, TS :Antenna transfer switch ,

NF: Noise figure

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Section 7 : Conducted interference

7.1 Operation environment

The test was carried out in a screened room the size of 6 x 7 x 2.4 m, at Kanto office EMC laboratory.

 Date: April 16, 2002

 Temperature:
 22.0 °C

 Humidity:
 38 %

7.2 Test configuration

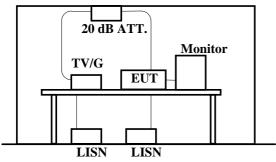
EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The rear of tabletop was located 40 cm to the vertical conducting plane. The rear of EUT, including peripherals aligned and flush with rear of tabletop. All other surfaces of tabletop was at least 80 cm from any other grounded conducting surface. I/O cables and AC cables that were connected to the peripherals were bundled in center. They were folded back and forth forming a bundle 30 cm to 40 cm long and were hanged at a 40 cm height to the ground plane. Each EUT current-carrying power lead, except the ground (safety) lead, were individually connected through a LISN to the input power source. All unused 50 ohm connectors of the LISN were resistively terminated in 50 ohm when not connected to the measuring equipment.

A drawing of the set up is shown in figure 1 and photographs in Appendix 1.

Figure 1. Conducted interference

Receive + Rec. mode (0 dBmV input / 25 dBmV input)

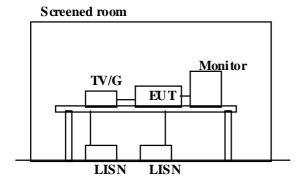
Screened room



Note:

RF in: TV signal generator connected Front video in: 75 ohm terminated Front audio in: 50 k ohm terminated Rear video out: 75 ohm terminated with video cable Rear audio out: 1 k ohm terminated with audio cable Rear digital audio out: 1 k ohm terminated with audio cable Rear S-video out: 75 ohm terminated with audio cable RF output: 75 ohm terminated with RF output cable

AV input + Rec. mode (1 Vp-p input / 5 Vp-p input)

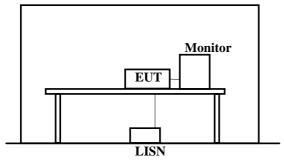


Note:

RF in: 75 ohm terminated Front video in: Video generator connected Front audio in: 50 k ohm terminated Rear video out: 75 ohm terminated with video cable Rear audio out: 1 k ohm terminated with audio cable Rear digital audio out: 1 k ohm terminated with audio cable Rear S-video out: 75 ohm terminated with audio cable RF output: 75 ohm terminated with RF output cable

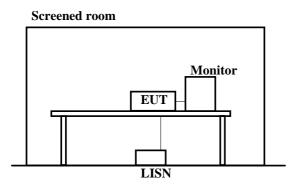
VCR playback mode

Screened room



Note: RF in: 75 ohm terminated Front video in: 75 ohm terminated Front audio in: 50 k ohm terminated Rear video out: 75 ohm terminated with video cable Rear audio out: 1 k ohm terminated with audio cable Rear digital audio out: 1 k ohm terminated with audio cable Rear S-video out: 75 ohm terminated with audio cable RF output: 75 ohm terminated with RF output cable

DVD play mode



Note: RF in: 75 ohm terminated Front video in: 75 ohm terminated Front audio in: 50 k ohm terminated Rear video out: 75 ohm terminated with video cable Rear audio out: 1 k ohm terminated with audio cable Rear digital audio out: 1 k ohm terminated with audio cable Rear S-video out: 75 ohm terminated with audio cable RF output: 75 ohm terminated with RF output cable

A-pex International Co., Ltd. Kanto Office EMC Laboratory.

7.3 Test conditions

Frequency range:0.45 MHz - 30 MHzEUT position:Table top

7.4 Test procedure

The AC Mains Terminal Continuous disturbance Voltage has been measured with the EUT within a screened room. The EUT was connected to a Line Impedance Stabilization Network (LISN). An overview sweep with peak detection has been performed. The measurements have been performed with a quasi-peak detector and if required, with an average detector.

The EUT was put into operation at receive mode, AV input mode, VCR playback mode and DVD play mode. EUT and desired signal generator should connect through 20 dB attenuator.

The conducted emission measurements were made with the following detector function of the test receiver.

Detector Type : Quasi-Peak IF Bandwidth : 10 kHz

7.5 Test result

Passed Please refer to summary of the test results in Appendix 2.

Section 8 : Radiated emission

The test was carried out in a open area test site the size of 10 x 20 m, at Yamakita laboratory.

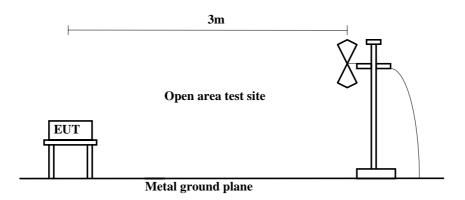
Date: April 10, 2002		Date: April 11, 2002	
Temperature:	21.0 °C	Temperature:	19.0 °C
Humidity:	58 %	Humidity:	68 %

8.2 Test configuration

EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The rear of EUT, including peripherals was aligned and flush with rear of tabletop. I/O cables that were connected to the peripherals were bundled in center. They were folded back and forth forming a bundle 30 cm to 40 cm long and were hanged 40 cm height to the ground plane. Test was made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna was varied in height above the conducting ground plane to obtain the maximum signal strength.

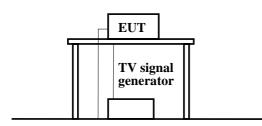
A drawing of the set up is shown in figure 2 and photographs in Appendix 1.

Figure 2. Radiated emission



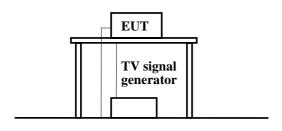
Receive + Rec. mode (0 dBmV / 25 dBmV)

Open area test site



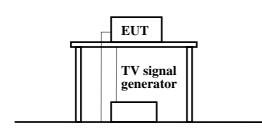
AV input + Rec. mode (1 Vp-p input / 5 Vp-p input)

Open area test site

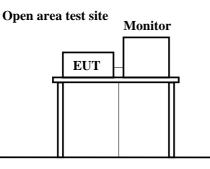


Playback mode

Open area test site



DVD play mode



Note:

RF in: TV signal generator connected Front video in: 75 ohm terminated Front audio in: 50 k ohm terminated Rear video out: 75 ohm terminated with video cable Rear audio out: 1 k ohm terminated with audio cable Rear digital audio out: 1 k ohm terminated with audio cable Rear S-video out: 75 ohm terminated with audio cable RF output: 75 ohm terminated with RF output cable

Note:

RF in: 75 ohm terminated Front video in: Video generator Front audio in: 50 k ohm terminated Rear video out: 75 ohm terminated with video cable Rear audio out: 1 k ohm terminated with audio cable Rear digital audio out: 1 k ohm terminated with audio cable Rear S-video out: 75 ohm terminated with audio cable RF output: 75 ohm terminated with RF output cable

Note:

RF in: 75 ohm terminated Front or rear video in: 75 ohm terminated Front or rear audio in: 50 k ohm terminated Rear video out: 75 ohm terminated with video cable Rear audio out: 1 k ohm terminated with video cable Rear digital audio out: 1 k ohm terminated with audio cable Rear S-video out: 75 ohm terminated with audio cable RF output: 75 ohm terminated with RF output cable

Note:			
RF in: 75 ohm terminated			
Front or rear video in: 75 ohm terminated			
Front or rear audio in: 50 k ohm terminated			
Rear video out: 75 ohm terminated with video cable			
Rear audio out: 1 k ohm terminated with video cable			
Rear digital audio out: 1 k ohm terminated with audio cable			
Rear S-video out: 75 ohm terminated with audio cable			
RF output: 75 ohm terminated with RF output cable			

A-pex International Co., Ltd. Kanto Office EMC Laboratory.

8.3 Test conditions

Frequency range	:	30 MHz - 2000 MHz
Test distance	:	3 m
EUT position	:	Table top

8.4 Test procedure

The Radiated Electric Field Strength intensity has been measured on an open test site with a ground plane and at a distance of 3 m.

Pre check measurements were performed within a screened room or used search coil for ambient noise at high-level, especially.

Measurements were performed with a quasi-peak detector.

The measuring antenna height was varied between 1 to 4 m and EUT was rotated a full revolution in order to obtain the maximum value of the electric field intensity. The measurements were performed for both vertical and horizontal antenna polarization. The EUT was put into operation at receive mode, AV input mode, VCR playback mode and DVD play mode.

The radiated emission measurements were made with the following detector function of the test receiver.

Detector Type : QP (30-1000 MHz) / Ave. (1000-2000MHz)

IF Bandwidth : 120 kHz / 1 MHz

8.5 Test result

Passed

Please refer to summary of the test results in Appendix 2.

Test engineer : Ichiro Isozaki

Section 9 : Antenna terminal voltage

9.1 Operation environment

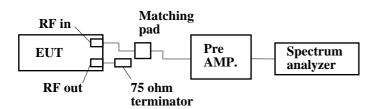
The test was carried out in a screened room the size of 6 x 7 x 2.4 m, at Kanto office EMC laboratory.

Date: April 15, 2002 Temperature: 23.5 °C Humidity: 40 %

9.2 Test configuration

The EUT was placed on a non-metallic platform 0.8 m above a reference ground plane. A drawing of the set up is shown in figure 3 and photographs in Appendix 1.

Figure 3. Antenna terminal voltage



9.3 Test conditions

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Frequency range : 30 MHz – 2000 MHz
EUT position : Table top
```

9.4 Test procedure

Connect EUT and spectrum analyzer through pre-amplifier. Set EUT to CH investigation mode then measure the voltage of local leakage from antenna terminal. Spectrum analyzer should be hold in maximum mode during the measurement. Measurement should be performed for TV receiver mode and CATV receiver mode.

Detector Type : Peak (30 MHz – 2000 MHz)

9.5 Test result

Passed Please refer to summary of the test results in Appendix 2.

Test engineer : Yoshiyuki Arakawa

A-pex International Co., Ltd. Kanto Office EMC Laboratory.

Section 10 : RF output level / spurious emission

10.1 Operation environment

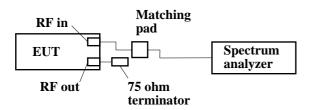
The test was carried out in a screened room the size of 6 x 7 x 2.4 m, at Kanto office EMC laboratory.

Date: April 15, 2002 Temperature: 23.5 °C Humidity: 40 %

10.2 Test configuration

The EUT was placed on a non-metallic platform 0.8 m above a reference ground plane. A drawing of the set up is shown in figure 4 and photographs in Appendix 1.

Figure 4. RF output level



10.3 Test conditions

EUT position : Table top

10.4 Test procedure

EUT was connected spectrum analyzer through matching pad by accessory cable. RF channel selected 3 ch or 4 ch. Picture carrier, sound carrier and spurious levels are measured. Both sound carrier levels (upper and lower side bands) of modulator output are measured.

Detector Type : Peak

10.5 Test result

Passed Please refer to summary of the test results in Appendix 2.

Section 11 : Antenna transfer switch

11.1 Operation environment

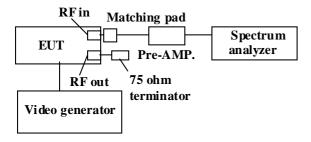
The test was carried out in a screened room the size of 6 x 7 x 2.4 m, at Kanto office EMC laboratory.

Date: April 15, 2002 Temperature: 23.5 °C Humidity: 40 %

11.2 Test configuration

The EUT was placed on a non-metallic platform 0.8 m above a reference ground plane. A drawing of the set up is shown in figure 5 and photographs in Appendix 1.

Figure 5. Transfer switch



11.3 Test conditions

EUT position : Table top

11.4 Test procedure

EUT was connected spectrum analyzer through matching pad by accessory cable. RF channel selected 3 ch or 4 ch. The EUT exercised AV input mode, VCR playback mode during the test, and interference signals were measured from RF input terminal.

Detector Type : Peak

11.5 Test result

Passed Please refer to summary of the test results in Appendix 2.

Test engineer : Yoshiyuki Arakawa

A-pex International Co., Ltd. Kanto Office EMC Laboratory.

Section 12 : Picture sensitivity

12.1 Operation environment

The test was carried out in a screened room the size of 6 x 7 x 2.4 m, at Kanto office EMC laboratory.

 Date: April 16, 2002

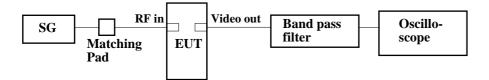
 Temperature:
 22.0 °C

 Humidity:
 38 %

12.2 Test configuration

The EUT was placed on a non-metallic platform 0.8 m above a reference ground plane. A drawing of the set up is shown in figure 5 and photographs in Appendix 1.

Figure 5. Picture sensitivity



12.3 Test conditions

EUT position : Table top

12.4 Test procedure

Signal generator setup is as follows, (Example: 2ch - 55.25 MHz, AM, 1 kHz, 30 %) The EUT was tuned to appropriate channel.

Output level of signal generator was adjusted to near the frequency output level of EUT output. EUT output level was adjusted to maximum output level by frequency adjustment of signal generator. Signal generator output level was adjusted to reference output level of EUT and output level had read.

12.5 Test result

Passed Please refer to summary of the test results in Appendix 2.

Section 13 : Noise figure

13.1 Operating environment

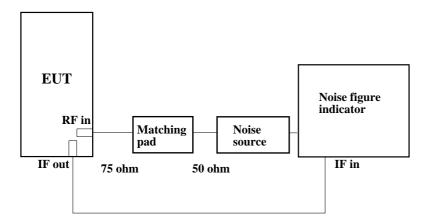
The test was carried out in a screened room the size of 6 x 7 x 2.4 m, at Kanto office EMC laboratory.

Date: April 16, 2002 Temperature: 22.0 °C Humidity: 38 %

13.2 Test configuration

The EUT was placed on a non-metallic table. A drawing of the set up is shown in figure 6 and photographs in Appendix 1.

Figure 6. Noise figure



13.3 Test procedure

This test should be performed in a shielded room or an low noise environment. Connect solid state noise source to antenna input terminal of EUT. Connect IF output terminal of EUT to noise meter through ceramic condenser. Measurement has been performed for VHF,UHF and receiver range.

13.4 Test result

Passed Please refer to summary of the test results in Appendix 2.