



Certification EMI TEST REPORT

Test Report No. : 26EE0195-YW-1

Applicant : Orion Electric Co., Ltd.
Type of equipment : DVD Player with Video Cassette Recorder
Model number : SD-V594SU
FCC ID : A7RM2I4A
Test standard : FCC Part 15 Subpart B
ICES-003 Issue No.4 Class B
Test result : Complied

Similar model :

Model No.	Brand name	Model No.	Brand name
SD-V594SC	TOSHIBA	-	-
SD-V494SU	TOSHIBA	-	-
SD-V494SC	TOSHIBA	-	-
-	-	-	-
-	-	-	-

1. This test report shall not be reproduced except in full or partial, without the written approval of UL Apex 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.
5. This test report does not constitute an endorsement by NIST/NVLAP or U.S. Government.

Date of test : December 20, 2005 to January 11, 2006

Tested by:

Tsubasa Takayama
Engineer of EMC Service

Tomoyuki Yamashita
Engineer of EMC Service

Masanori Nishiyama
Engineer of EMC Service

Approved by:

Hiroya Tabata
Leader of EMC Service

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Section 1 : Client information

Company name : Orion Electric Co., Ltd.
Address : 41-1 Iehisa-cho, Echizen-shi, Fukui-ken, 915-8555 JAPAN
Telephone number : +81 778 23 0019
Facsimile number : +81 778 23 7799
Contact person : Yoshimasa Tanikawa

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

2.1 Identification of E.U.T.

Type of equipment : DVD Player with Video Cassette Recorder
Brand Name : TOSHIBA
Model number : SD-V594SU
FCC ID : A7RM2I4A
Rating : AC 120 V / 60 Hz
Manufacturer : 1. World Electric (Thailand) Ltd.
236 Moo 2 Nongchark, Banbung, Chonburi 20170, Thailand
2. Korat Denki Ltd.
149 Moo 10 Tambol Chokchai, Amphur Chokchai, Nakhonratchasima
30190, Thailand
228 Moo 3 Tambol Nongbuasala, Amphur Muang, Nakhonratchasima
30000, Thailand
3. Orion America, Inc.
Hwy 41 North, Orion Place, Princeton, Indiana 47670, U.S.A
Receipt Date of Sample : December 19, 2005
Condition of EUT : Production Prototype
(Not for Sale: This sample is equivalent to mass-produced items.)

2.2 Product description

Model: SD-V594SU (referred to as the EUT in this report) is a DVD Player with Video Cassette Recorder which can connect with USB device.

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, 20W
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 47 k ohm, RCA out –8 dB 1 k ohm

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Section 3 : Test specification, procedures and results

3.1 Test specification

Test specification: FCC Part 15 Subpart B
Title : FCC 47 CFR Part 15 Radio Frequency Device
Subpart B Unintentional Radiators

Test Specification : ICES-003 Issue No. 4
Title : Spectrum Management
Interference-Causing Equipment Standard
Digital Apparatus
*ICES-003 (Issue No. 4) is based on FCC Part 15.

3.2 Procedures & results

Item	Test procedure	Limits	Worst margin	Result
Conducted emission	ANSI C63.4:2003	CISPR 22	7.0 dB (0.1672 MHz, AV, L1, USB mode)	Complied
Radiated emission	ANSI C63.4:2003 IEEE 187:1990	30–88 MHz: 100 uV/m 88–216 MHz: 150 uV/m 216–960 MHz: 200 uV/m above 960 MHz: 500 uV/m	1.9 dB (270.03 MHz, Horizontal, VCR Playback)	Complied
Antenna terminal voltage	ANSI C63.4:2003	2 nW (at 75 ohm)	21.8 dB (641.42430 MHz, Air)	Complied
RF output level	ANSI C63.4:2003	Video signal: 3000 uV Aural signal: 671 uV	4.6 dB (67.25 MHz, 4ch, TV Reception + Rec. 25dBmV)	Complied
Spurious emission		94.8 uV	5.5 dB (17.22143 MHz, Air)	Complied
Transfer switch	ANSI C63.4:2003	9.5 dB	9.0 dB (61.2500 MHz, 3ch, AV Input1 + Rec. 1Vp-p)	Complied
Picture sensitivity	ANSI C63.4:2003	8 dB	4.1 dB	Complied
Noise figure	FCC/OET MP:2:1986	14 dB	5.5 dB (651.25 MHz, 44ch / 133.25 MHz, 16ch)	Complied

For ICES-003, only the tests, which relate to the digital device of conducted emission and radiated emission, were performed.

3.3 Additions or deviations to standard

No addition, deviation or exclusion has been made from standards.

3.4 Confirmation

UL Apex Co., Ltd. hereby confirms that E.U.T., in the configuration tests, complies with the specifications FCC Part15 Subpart B and ICES-003 Issue No. 4.

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3.5 Uncertainty

Conducted emission (150 kHz – 30 MHz)

The measurement uncertainty (with a 95% confidence level) for this test was ± 2.8 dB.

The data listed in this test report has enough margin, more than site margin.

Radiated emission

The measurement uncertainty (with a 95% confidence level) for this test using Biconical antenna is ± 4.5 dB.

The measurement uncertainty (with a 95% confidence level) for this test using Logperiodic antenna is ± 4.2 dB.

The measurement uncertainty (with a 95% confidence level) for this test using Horn antenna is ± 5.6 dB.

The data listed in this test report meets the limits unless the uncertainty is taken into consideration.

Antenna terminal voltage

The measurement uncertainty (with a 95% confidence level) for this test was ± 2.3 dB.

The data listed in this test report has enough margin, more than site margin.

RF output level test / spurious emission test

The measurement uncertainty (with a 95% confidence level) for this test was ± 2.3 dB.

The data listed in this test report has enough margin, more than site margin.

Antenna transfer switch

The measurement uncertainty (with a 95% confidence level) for this test was ± 2.3 dB.

The data listed in this test report has enough margin, more than site margin.

Picture sensitivity test

The measurement uncertainty (with a 95% confidence level) for this test was ± 1.0 dB.

The data listed in this test report has enough margin, more than site margin.

Noise Figure Test

The measurement uncertainty (with a 95% confidence level) for this test was ± 1.2 dB.

The data listed in this test report has enough margin, more than site margin.

3.7 Test location

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Test room	Width x Depth x Height (m)	Test room	Width x Depth x Height (m)
No.1 shielded room	5.5 x 6.4 x 2.7	No.7 shielded room	9.3 x 3.4 x 2.7
No.2 shielded room	4.5 x 3.6 x 2.7	No.1 EMS lab. (Full-anechoic chamber)	5.0 x 8.0 x 3.5
No.3 shielded room	3.6 x 7.2 x 2.4	No.2 EMS lab. (Full-anechoic chamber)	4.0 x 7.0 x 3.5
No.4 shielded room	5.5 x 5.0 x 2.4		
No.5 shielded room	5.5 x 4.3 x 2.5		
No.6 shielded room	5.2 x 3.2 x 2.9		

*NVLAP Lab. code : 200109-0

No.1 and No.3 sites have been fully described in a report submitted to FCC office, and listed on September 25, 2003.
(Registration number: 90412)

No.2 site has been fully described in a report submitted to FCC office, and listed on August 29, 2003.
(Registration number: 90411)

3.8 Test setup, Data of EMI & Test instruments

Please refer to Appendix 1 to 3.

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

4.1 Operating modes

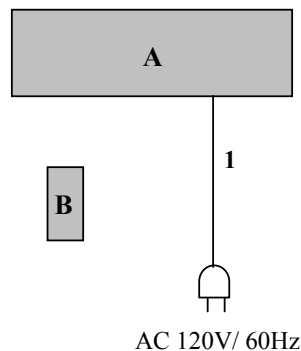
The EUT exercise program used during testing was designed exercise the various system components in a manner similar to typical use.

The sequence in used :
 * TV Reception + Rec. mode (0 dBmV input / 25 dBmV input)
 * AV Input 1 + Rec. mode / AV Input 2 + Rec. mode (1 Vp-p input / 5 Vp-p input)
 * VCR Playback mode
 * DVD Play mode
 * USB mode

Operation : The EUT was tested at above operation mode.

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

4.2 Configuration and peripherals



* Cabling and setup were 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	FCC ID	Remark
A	DVD Player with Video Cassette Recorder	SD-V594SU	-	Orion Electric Co., Ltd.	A7RM2I4A	EUT
B	Remote Controller	-	-	Orion Electric Co., Ltd.	-	EUT

List of cable used

No.	Item	Length (m)	Shield	Remark
1	AC Power Cable	1.6	Unshielded	2 wire

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Section 5 : Conducted emission

5.1 Operation environment

The test was carried out No.2 shielded room.

Date : December 20, 2005

Temperature : See data

Humidity : See data

5.2 Test configuration

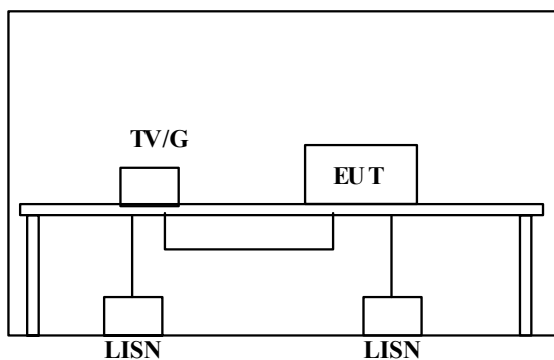
EUT was placed on a platform of nominal size, 1 m by 1.8 m, raised 80 cm above the conducting ground plane. The rear of tabletop was located 40 cm to the vertical conducting plane. The rear of EUT was aligned and flushed with rear of tabletop. All other surfaces of tabletop was at least 80 cm from any other grounded conducting surface. I/O cables and AC cable were bundled in center. I/O cables were hanged at a 40cm 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 emission

TV Reception + Rec. mode (0 dBmV input / 25 dBmV input)

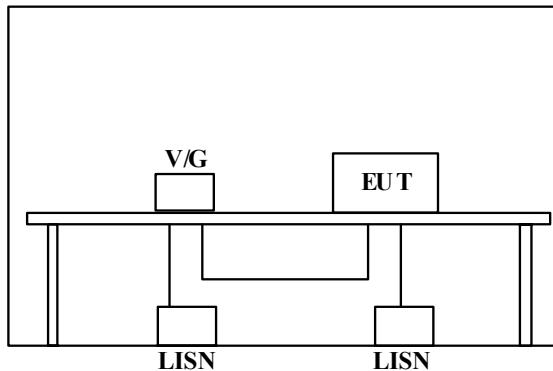
Shielded room



RF in: TV signal generator connected
 Front video in: 75 ohm terminated
 Front audio in: 47 k ohm terminated
 Rear video out: 75 ohm terminated with video cable
 Rear audio out: 1 k ohm terminated with audio cable
 S-video out: 75 ohm terminated with S-video output cable
 Component out (Y/P_B/P_R): 75 ohm terminated with component cable
 RF output: 75 ohm terminated with RF output cable
 Coaxial out: 75 ohm terminated with coaxial cable
 Rear video in: 75 ohm terminated
 Rear audio in: 47 k ohm terminated

AV Input 1 + Rec. mode/ AV Input 2 + Rec. mode (1 Vp-p input / 5 Vp-p input)

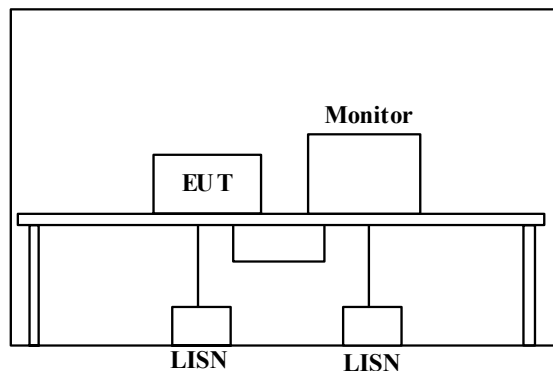
Shielded room



RF in: 75 ohm terminated
 Front video in: Video signal generator connected or 75 ohm terminated
 Front audio in: 47 k ohm terminated
 Rear video out: 75 ohm terminated with video cable
 Rear audio out: 1 k ohm terminated with audio cable
 S-video out: 75 ohm terminated with S-video output cable
 Component out (Y/P_B/P_R): 75 ohm terminated with component cable
 RF output: 75 ohm terminated with RF output cable
 Coaxial out: 75 ohm terminated with coaxial cable
 Rear video in: video signal generator connected or 75 ohm terminated
 Rear audio in: 47 k ohm terminated

VCR Playback mode / DVD Play mode / USB mode

Shielded room



RF in: 75 ohm terminated with RF input cable
 Front video in: 75 ohm terminated with video cable
 Front audio in: 47 k ohm terminated with audio cable
 Rear video out: monitor connected
 Rear audio out: monitor connected
 S-video out: 75 ohm terminated with S-video output cable
 Component out (Y/P_B/P_R): 75 ohm terminated with component cable
 RF output: 75 ohm terminated with RF output cable
 Coaxial out: 75 ohm terminated with coaxial cable
 Rear video in: 75 ohm terminated with video cable
 Rear audio in: 47 k ohm terminated with audio cable
 USB: cable connected with peripherals

5.3 Test conditions

Frequency range : 0.15 MHz – 30 MHz
EUT position : Table top
EUT operation mode : TV Reception + Rec., AV Input 1+ Rec., AV Input 2 + Rec.,
VCR Playback., DVD Play, USB

5.4 Test procedure

The AC Mains Terminal Continuous disturbance Voltage has been measured with the EUT within a shielded 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 conducted emission measurements were made with the following detector function of the test receiver.

Detector Type : QP / AV
IF Bandwidth : 10 kHz / 10 kHz

5.5 Test result

Passed

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

Test engineer: Masanori Nishiyama

Section 6 : Radiated emission

6.1 Operation environment

The test was carried out in No.1 and No.2 open site.

Date : December 20, 2005 and January 6, 2006
Temperature : See data
Humidity : See data

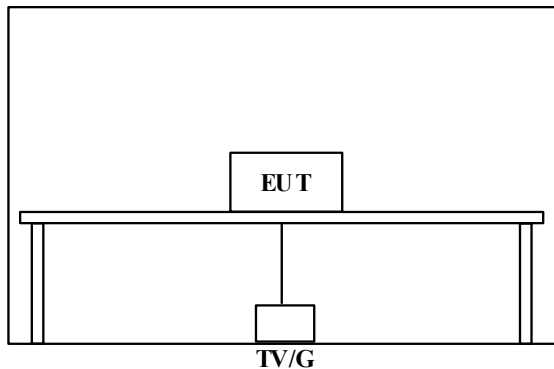
6.2 Test configuration

EUT was placed on a platform of nominal size, 1 m by 1.8 m, raised 80 cm above the conducting ground plane. The rear of EUT was aligned and flushed with rear of tabletop. AC cable was bundled in center. I/O cables 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 photographs in Appendix 1.

TV Reception + Rec. mode (0 dBmV / 25 dBmV)

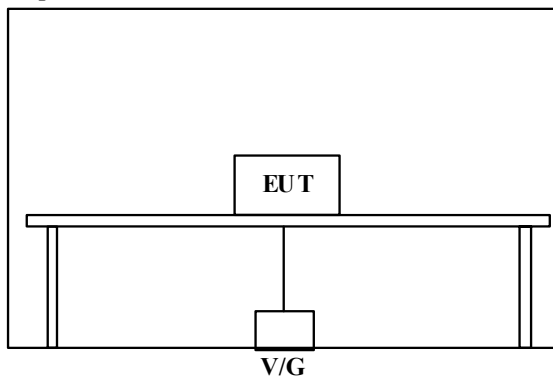
Open test site



RF in: TV signal generator connected or 75 ohm terminated
Front video in: 75 ohm terminated
Front audio in: 47 k ohm terminated
Rear video out: 75 ohm terminated with video cable
Rear audio out: 1 k ohm terminated with audio cable
S-video out: 75 ohm terminated with S-video output cable
Component (Y/P_B/P_R): 75 ohm terminated with component cable
RF output: 75 ohm terminated with RF output cable
Coaxial out: 75 ohm terminated with coaxial cable
Rear video in: 75 ohm terminated
Rear audio in: 47 k ohm terminated

AV Input 1 + Rec. mode/ AV Input 2 + Rec. mode (1 Vp-p input / 5 Vp-p input)

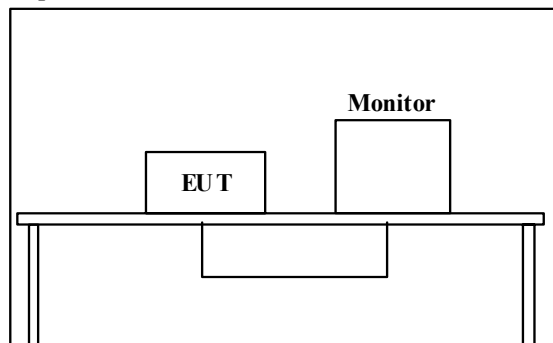
Open test site



RF in: 75 ohm terminated
 Front video in: Video signal generator connected or 75 ohm terminated
 Front audio in: 47 k ohm terminated
 Rear video out: 75 ohm terminated with video cable
 Rear audio out: 1 k ohm terminated with audio cable
 S-video out: 75 ohm terminated with S-video output cable
 Component out (Y/P_B/P_R): 75 ohm terminated with component cable
 RF output: 75 ohm terminated with RF output cable
 Coaxial out: 75 ohm terminated with coaxial cable
 Rear video in: video signal generator connected or 75 ohm terminated
 Rear audio in: 47 k ohm terminated

VCR Playback mode / DVD Play mode / USB mode

Open test site



RF in: 75 ohm terminated with RF input cable
 Front video in: 75 ohm terminated with video cable
 Front audio in: 47 k ohm terminated with audio cable
 Rear video out: monitor connected
 Rear audio out: monitor connected
 S-video out: 75 ohm terminated with S-video output cable
 Component out (Y/P_B/P_R): 75 ohm terminated with component cable
 RF output: 75 ohm terminated with RF output cable
 Coaxial out: 75 ohm terminated with coaxial cable
 Rear video in: 75 ohm terminated with video cable
 Rear audio in: 47 k ohm terminated with audio cable
 USB: cable connected with peripherals

6.3 Test conditions

Frequency range : 30 MHz – 5000 MHz
Test distance : 3 m
EUT position : Table top
EUT operation mode : TV Reception + Rec., AV Input 1+ Rec., AV Input 2 + Rec.,
VCR Playback., DVD Play, USB

6.4 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 search coil at high level of 30MHz – 1000MHz in a shielded room to distinguish disturbances of EUT from the ambient noise. The measuring antenna height was varied between 1 and 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 radiated emission measurements were made with the following detector function of the test receiver and spectrum analyzer.

	<u>30-1000 MHz (Test receiver)</u>	<u>1000-5000 MHz (Spectrum analyzer)</u>
Detector Type	: QP	: PK : AV
IF Bandwidth	: 120kHz	: RBW 1MHz / VBW 1MHz : RBW 1MHz/ VBW 10Hz

When using Spectrum analyzer, the test was made with adjusting span to zero by using peak hold.

6.5 Test result

Passed

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

Test engineer: Tsubasa Takayama

Section 7 : Antenna terminal voltage

7.1 Operation environment

The test was carried out in No.7 shielded room.

Date : December 27, 2005

Temperature : See data

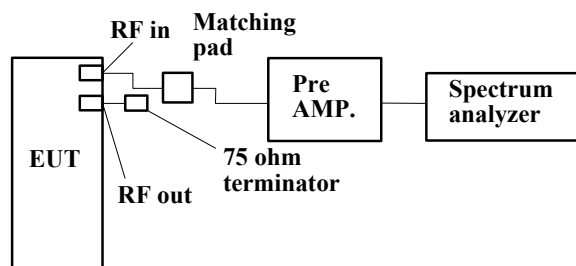
Humidity : See data

7.2 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 2 and photographs in Appendix 1.

Figure 2. Antenna terminal voltage



7.3 Test conditions

Frequency range : 30 MHz – 5000 MHz

EUT position : Table top

EUT operation mode : Tuning (Air / Cable)

7.4 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.

Detector Type : Peak (30-5000 MHz)

At frequency between 2000 MHz and 5000 MHz, 75/50ohm conversion loss of impedance is used in speculation.

7.5 Test result

Passed

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

Test engineer: Tomoyuki Yamashita

Section 8 : RF output level / spurious emission

8.1 Operation environment

The test was carried out in No.7 shielded room.

Date : December 27, 28, 2005 and January 11, 2006

Temperature : See data

Humidity : See data

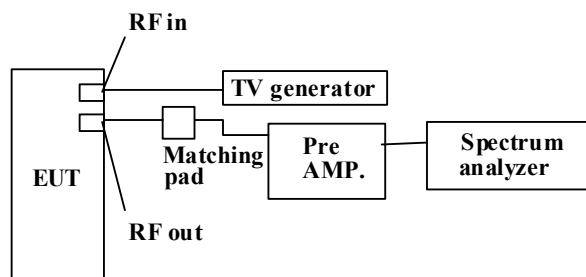
8.2 Test configuration

The EUT was placed on a non-metallic platform 0.8 m above a reference ground plane.

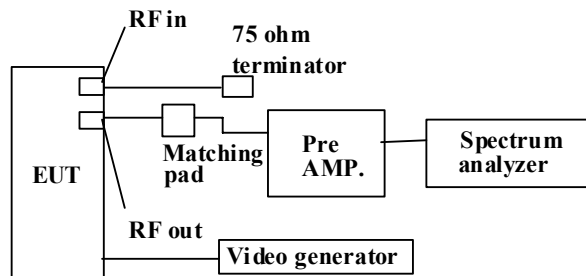
A drawing of the set up is shown in figure 3 and photographs in Appendix 1.

Figure 3. RF output level

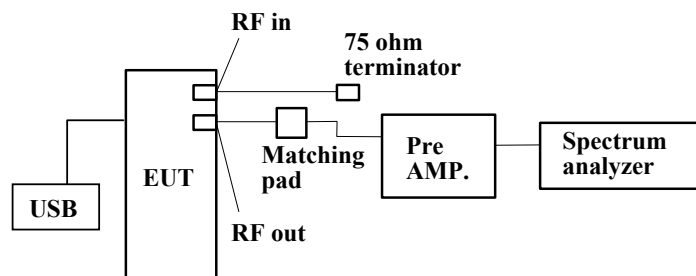
TV Reception + Rec. mode (0dBmV / 25dBmV)



AV Input 1 + Rec. mode / AV Input 2 + Rec. mode (1 Vp-p input / 5 Vp-p input)



VCR Playback mode / DVD Play mode / USB mode



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8.3 Test conditions

EUT position : Table top
EUT operation mode : TV Reception + Rec., AV Input 1+ Rec., AV Input 2 + Rec.,
VCR Playback., DVD Play, USB

8.4 Test procedure

EUT was connected spectrum analyzer through matching pad by accessory cable. RF channel selected 3ch or 4ch. 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

8.5 Test result

Passed

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

Test engineer: Tsubasa Takayama and Tomoyuki Yamashita

Section 9 : Antenna transfer switch

9.1 Operation environment

The test was carried out in No.7 shielded room.

Date : December 28, 2005 and January 11, 2006

Temperature : See data

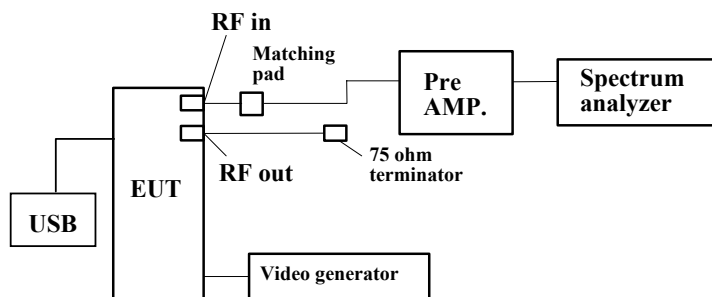
Humidity : See data

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 4 and photographs in Appendix 1.

Figure 4. Transfer switch



9.3 Test conditions

EUT position : Table top

EUT operation mode : AV Input 1+ Rec., AV Input 2 + Rec., VCR Playback., DVD Play, USB

9.4 Test procedure

EUT was connected spectrum analyzer through matching pad by accessory cable. RF channel selected 3ch or 4ch. Interference signals were measured from RF input terminal.

Detector Type : Peak

9.5 Test result

Passed

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

Test engineer: Tomoyuki Yamashita

Section 10 : Picture sensitivity

10.1 Operation environment

The test was carried out in No.7 shielded room.

Date : December 22, 2005

Temperature : See data

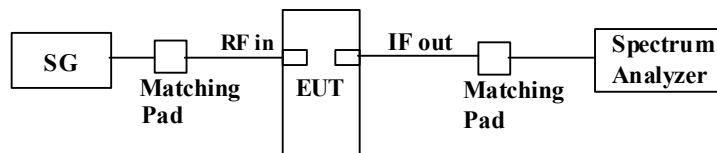
Humidity : See data

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 5 and photographs in Appendix 1.

Figure 5. Picture sensitivity



10.3 Test conditions

EUT position : Table top

EUT operation mode : TV Reception

10.4 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.

10.5 Test result

Passed

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

Test engineer: Tomoyuki Yamashita

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Section 11 : Noise figure

11.1 Operating environment

The test was carried out in No.7 shielded room.

Date : December 22, 2005

Temperature : See data

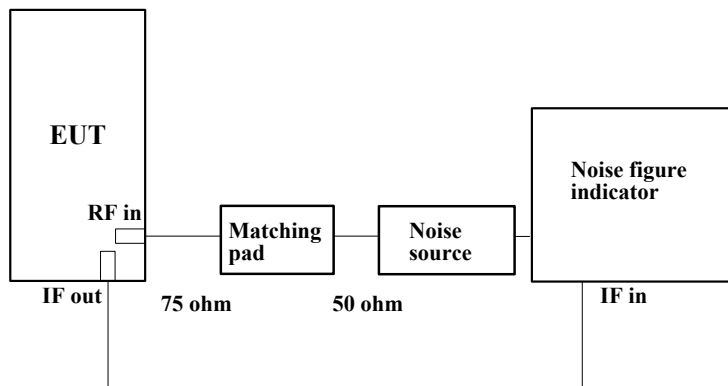
Humidity : See data

11.2 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



11.3 Test condition

EUT position : Table top

EUT operation mode : TV Reception

11.4 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. Measurement has been performed for VHF,UHF, Mid-band and Super-band receiver range.

11.5 Test result

Passed

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

Test engineer: Tomoyuki Yamashita

Appendix 1 : Photographs of test set up

Page 20 :	Test set up of conducted emission
Page 21 :	Test set up of radiated emission
Page 22 :	Test set up of antenna terminal voltage
Page 23 :	Test set up of RF output level / spurious emission
Page 24 :	Test set up of antenna transfer switch
Page 25 :	Test set up of picture sensitivity
Page 26 :	Test set up of noise figure

Appendix 2 : Data of EMI tests

Page 27 - 53 :	Conducted emission
Page 54 - 102 :	Radiated emission
Page 103 - 104 :	Antenna terminal voltage
Page 105 - 128 :	RF output level / spurious emission
Page 129 - 142 :	Antenna transfer switch
Page 143 :	Picture sensitivity
Page 144 :	Noise figure

Appendix 3 : Test instruments

Page 145 :	Test instruments
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Conducted emission



UL Apex Co., Ltd.

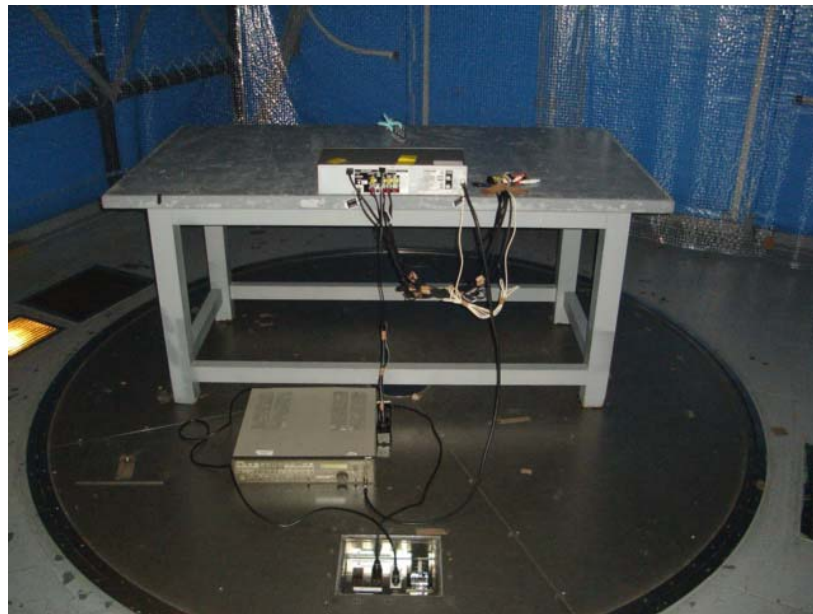
Yokowa EMC Lab.

108 Yokowa-cho, Ise-shi, Mie-ken 516-1106 JAPAN

Telephone: +81 596 39 1485

Facsimile: +81 596 39 0232

Radiated emission



UL Apex Co., Ltd.

Yokowa EMC Lab.

108 Yokowa-cho, Ise-shi, Mie-ken 516-1106 JAPAN

Telephone: +81 596 39 1485

Facsimile: +81 596 39 0232

Antenna terminal voltage



UL Apex Co., Ltd.

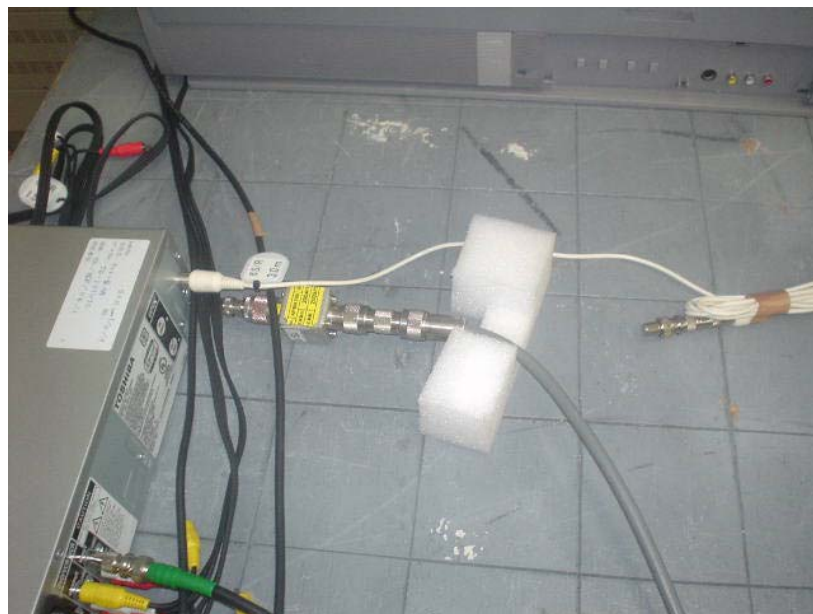
Yokowa EMC Lab.

108 Yokowa-cho, Ise-shi, Mie-ken 516-1106 JAPAN

Telephone: +81 596 39 1485

Facsimile: +81 596 39 0232

RF output level / spurious emission



UL Apex Co., Ltd.

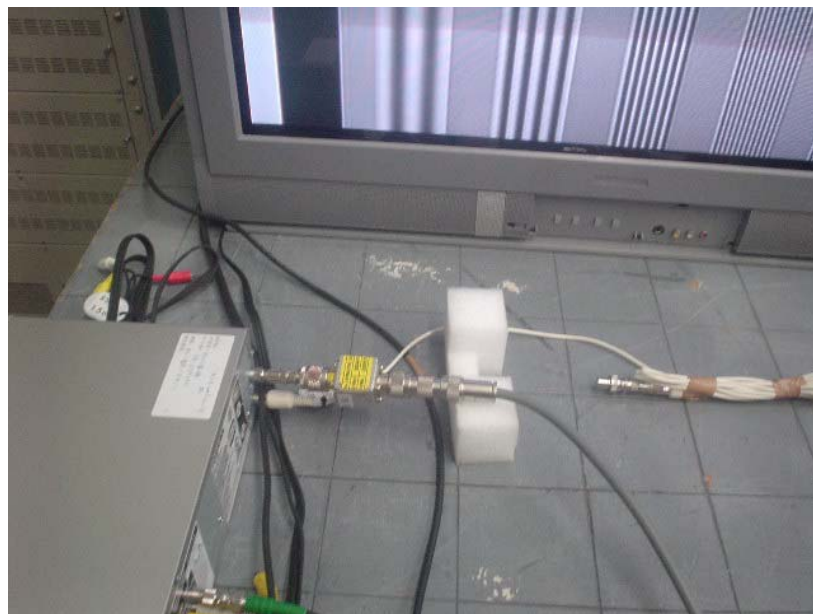
Yokowa EMC Lab.

108 Yokowa-cho, Ise-shi, Mie-ken 516-1106 JAPAN

Telephone: +81 596 39 1485

Facsimile: +81 596 39 0232

Antenna transfer switch



UL Apex Co., Ltd.

Yokowa EMC Lab.

108 Yokowa-cho, Ise-shi, Mie-ken 516-1106 JAPAN

Telephone: +81 596 39 1485

Facsimile: +81 596 39 0232

Picture sensitivity



UL Apex Co., Ltd.

Yokowa EMC Lab.

108 Yokowa-cho, Ise-shi, Mie-ken 516-1106 JAPAN

Telephone: +81 596 39 1485

Facsimile: +81 596 39 0232

Noise figure



UL Apex Co., Ltd.

Yokowa EMC Lab.

108 Yokowa-cho, Ise-shi, Mie-ken 516-1106 JAPAN

Telephone: +81 596 39 1485

Facsimile: +81 596 39 0232

DATA OF CONDUCTION TEST

UL Apex Co., Ltd.
YOKOWA No.2 SHIELD TEST ROOM
Report No. : 26EE0195-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V594SU
Serial No. : -
Power : AC120V/60Hz
Mode : TV Reception + Rec
Remarks : 0dBmV
Date : 12/20/2005
Phase : Single Phase
Temperature : 21 °C
Humidity : 38 %
Regulation : FCC Part15B CLASS B(2003)

Engineer : Masanori Nishiyama

No.	FREQ. [MHz]	READING (N)		READING (L1)		LISN FACTOR [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
		QP [dB μ V]	AV	QP [dB μ V]	AV				QP [dB]	AV [dB μ V]	QP [dB μ V]	AV [dB μ V]	QP [dB]	AV [dB]
1.	0.1500	48.3	-	48.5	-	0.1	0.3	0.0	48.9	-	66.0	56.0	17.1	-
2.	0.1846	44.0	-	44.0	-	0.1	0.3	0.0	44.4	-	64.3	54.3	19.9	-
3.	0.5294	22.6	-	25.9	-	0.1	0.3	0.0	26.3	-	56.0	46.0	29.7	-
4.	1.3090	25.1	-	26.1	-	0.1	0.2	0.0	26.4	-	56.0	46.0	29.6	-
5.	9.2131	20.9	-	24.3	-	0.5	0.5	0.0	25.3	-	60.0	50.0	34.7	-
6.	24.5749	24.5	-	20.4	-	1.1	0.8	0.0	26.4	-	60.0	50.0	33.6	-

CALCULATION: READING + LISN FACTOR + CABLE LOSS + ATTEN.

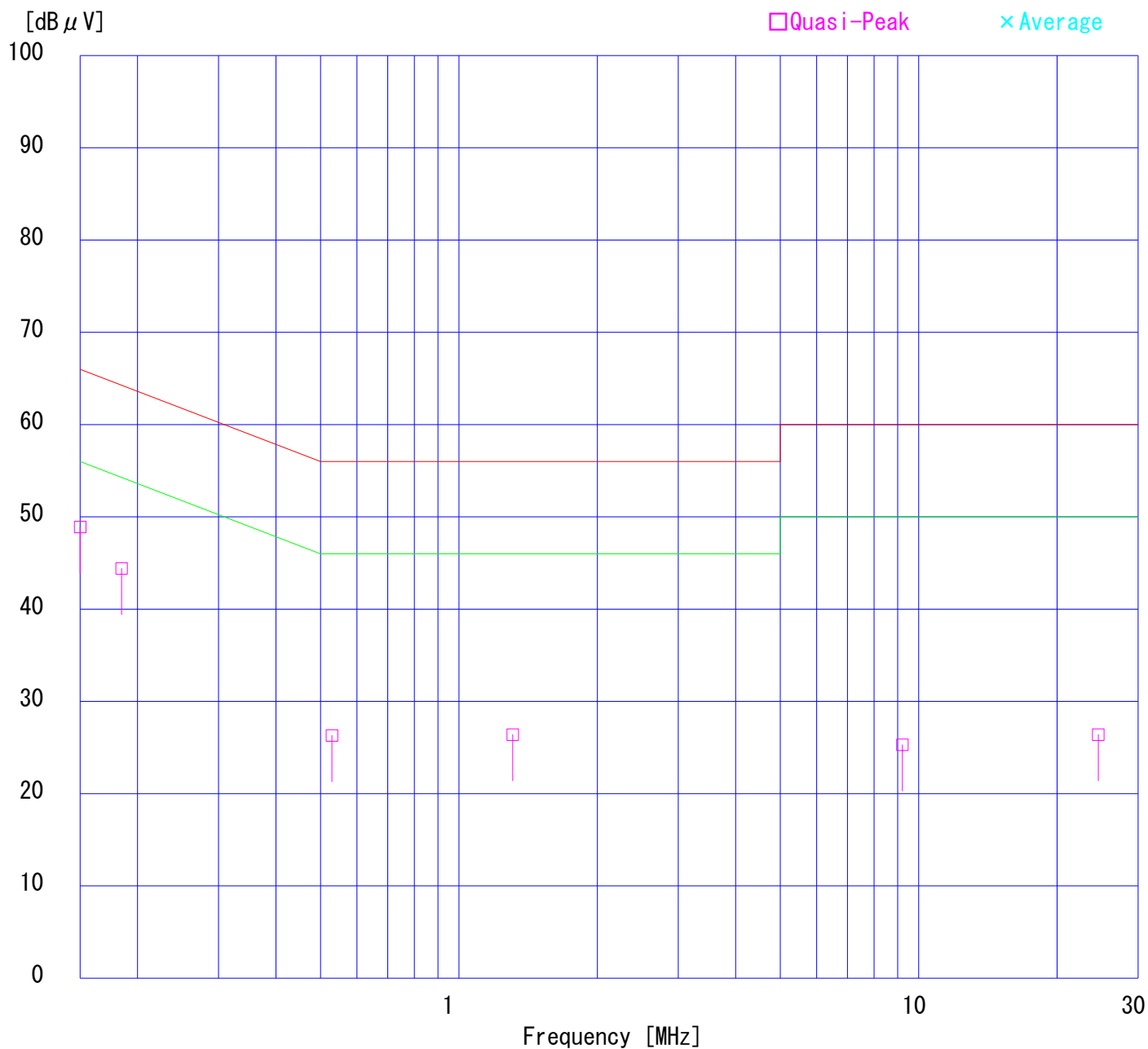
Except for the above table: adequate margin data below the limits.

DATA OF CONDUCTION TEST

UL Apex Co., Ltd.
YOKOWA No.2 SHIELD TEST ROOM
Report No. : 26EE0195-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V594SU
Serial No. : -
Power : AC120V/60Hz
Mode : TV Reception + Rec
Remarks : 0dBmV
Date : 12/20/2005
Phase : Single Phase
Temperature : 21 °C
Humidity : 38 %
Regulation : FCC Part15B CLASS B(2003)

Engineer : Masanori Nishiyama



DATA OF CONDUCTION TEST CHART

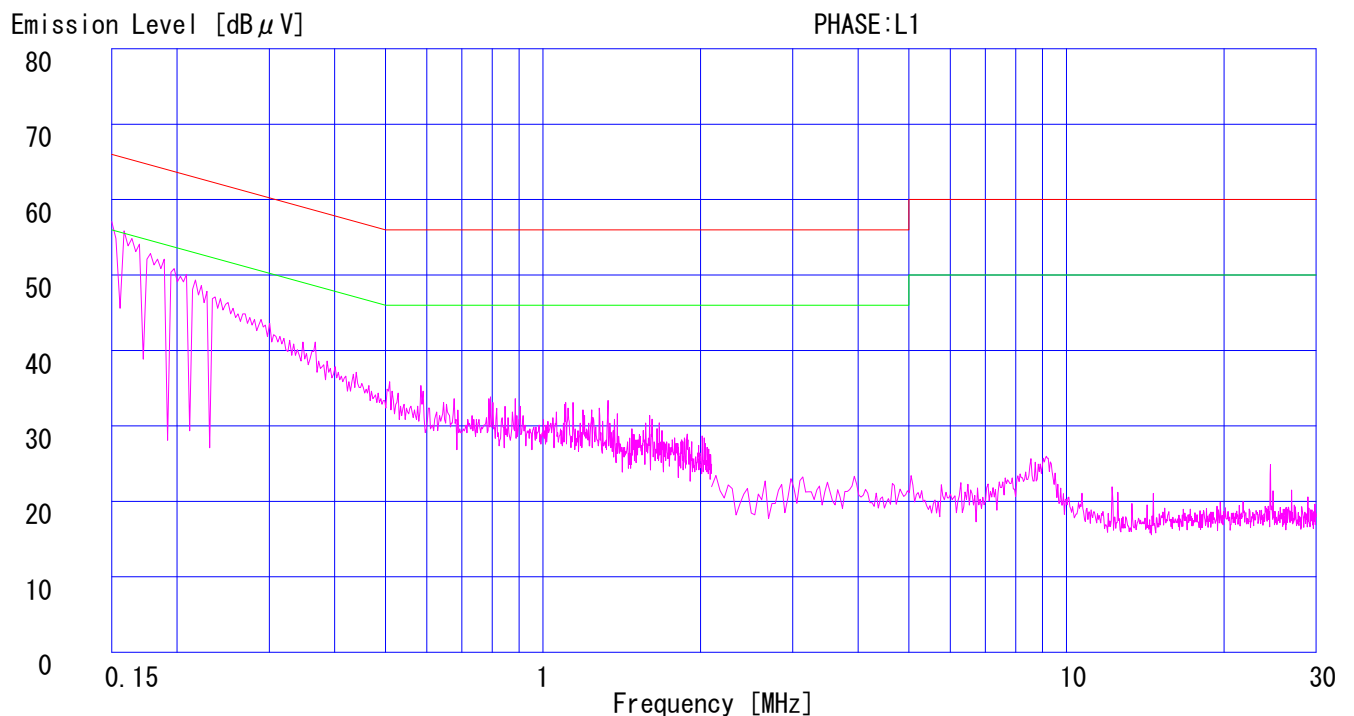
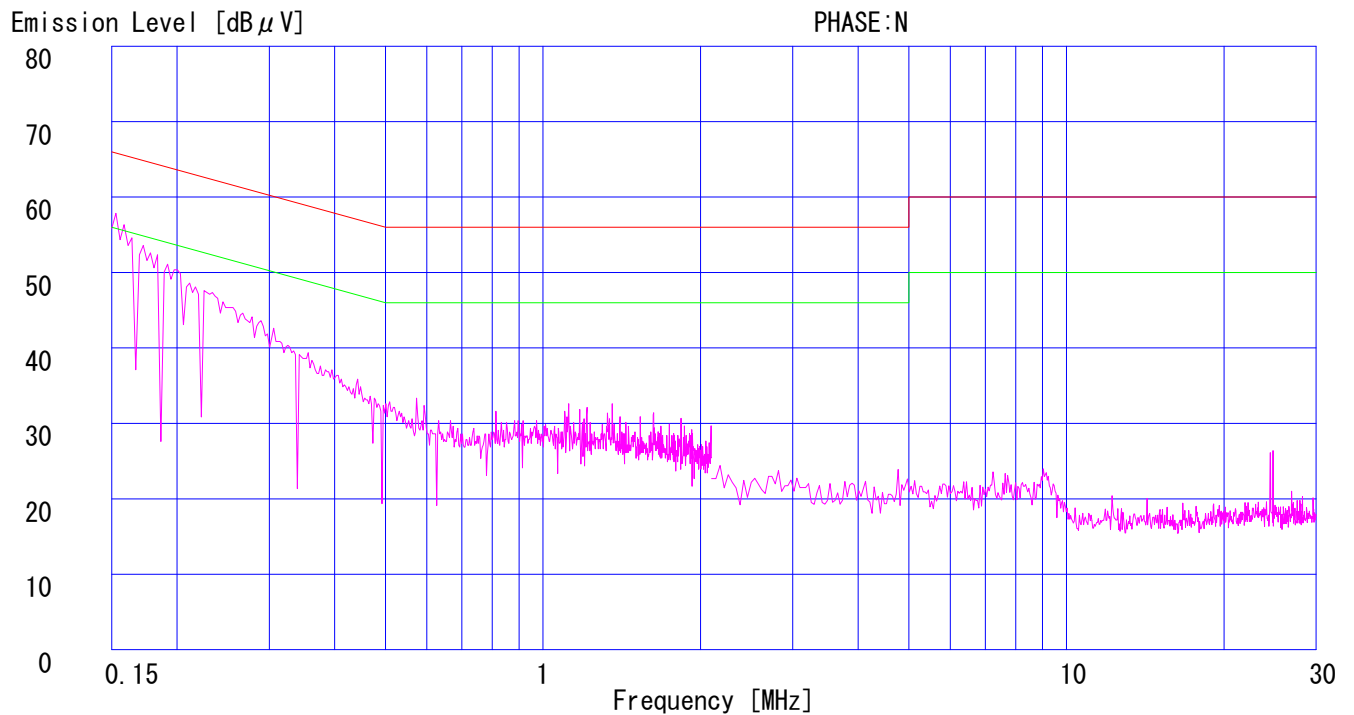
UL Apex Co., Ltd.

YOKOWA No.2 SHIELD TEST ROOM

Report No. : 26EE0195-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V594SU
Serial No. : -
Power : AC120V/60Hz
Mode : TV Reception + Rec
Remarks : 0dBmV
Date : 12/20/2005
Phase : Single Phase
Temperature : 21 °C
Humidity : 38 %
Regulation 1 : FCC Part15B CLASS B (2003)
Regulation 2 : None

Engineer : Masanori Nishiyama



DATA OF CONDUCTION TEST

UL Apex Co., Ltd.
YOKOWA No.2 SHIELD TEST ROOM
Report No. : 26EE0195-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V594SU
Serial No. : -
Power : AC120V/60Hz
Mode : TV Reception + Rec
Remarks : 25dBmV
Date : 12/20/2005
Phase : Single Phase
Temperature : 21 °C
Humidity : 38 %
Regulation : FCC Part15B CLASS B(2003)

Engineer : Masanori Nishiyama

No.	FREQ. [MHz]	READING (N)		READING (L1)		LISN FACTOR [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
		QP [dB μ V]	AV	QP [dB μ V]	AV				QP [dB]	AV [dB μ V]	QP [dB μ V]	AV [dB μ V]	QP [dB]	AV [dB]
1.	0.1500	48.3	-	48.6	-	0.1	0.3	0.0	49.0	-	66.0	56.0	17.0	-
2.	0.2059	41.3	-	41.8	-	0.1	0.3	0.0	42.2	-	63.4	53.4	21.2	-
3.	0.5924	23.5	-	27.0	-	0.1	0.3	0.0	27.4	-	56.0	46.0	28.6	-
4.	1.1329	24.0	-	25.1	-	0.1	0.2	0.0	25.4	-	56.0	46.0	30.6	-
5.	9.2341	20.2	-	19.4	-	0.5	0.5	0.0	21.2	-	60.0	50.0	38.8	-
6.	24.5744	22.9	-	19.4	-	1.1	0.8	0.0	24.8	-	60.0	50.0	35.2	-

CALCULATION: READING + LISN FACTOR + CABLE LOSS + ATTEN.

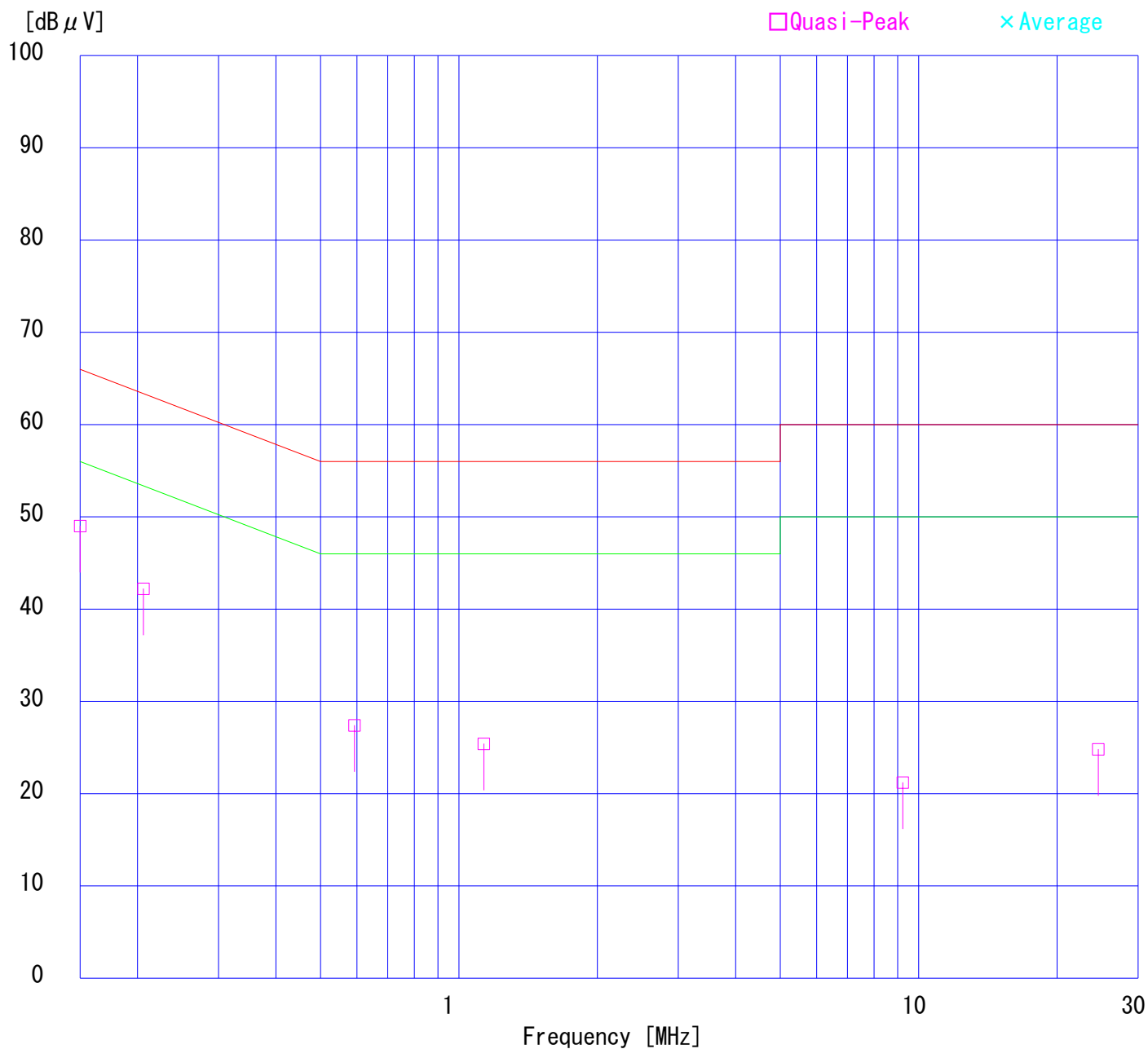
Except for the above table: adequate margin data below the limits.

DATA OF CONDUCTION TEST

UL Apex Co., Ltd.
YOKOWA No.2 SHIELD TEST ROOM
Report No. : 26EE0195-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V594SU
Serial No. : -
Power : AC120V/60Hz
Mode : TV Reception + Rec
Remarks : 25dBmV
Date : 12/20/2005
Phase : Single Phase
Temperature : 21 °C
Humidity : 38 %
Regulation : FCC Part15B CLASS B(2003)

Engineer : Masanori Nishiyama



DATA OF CONDUCTION TEST CHART

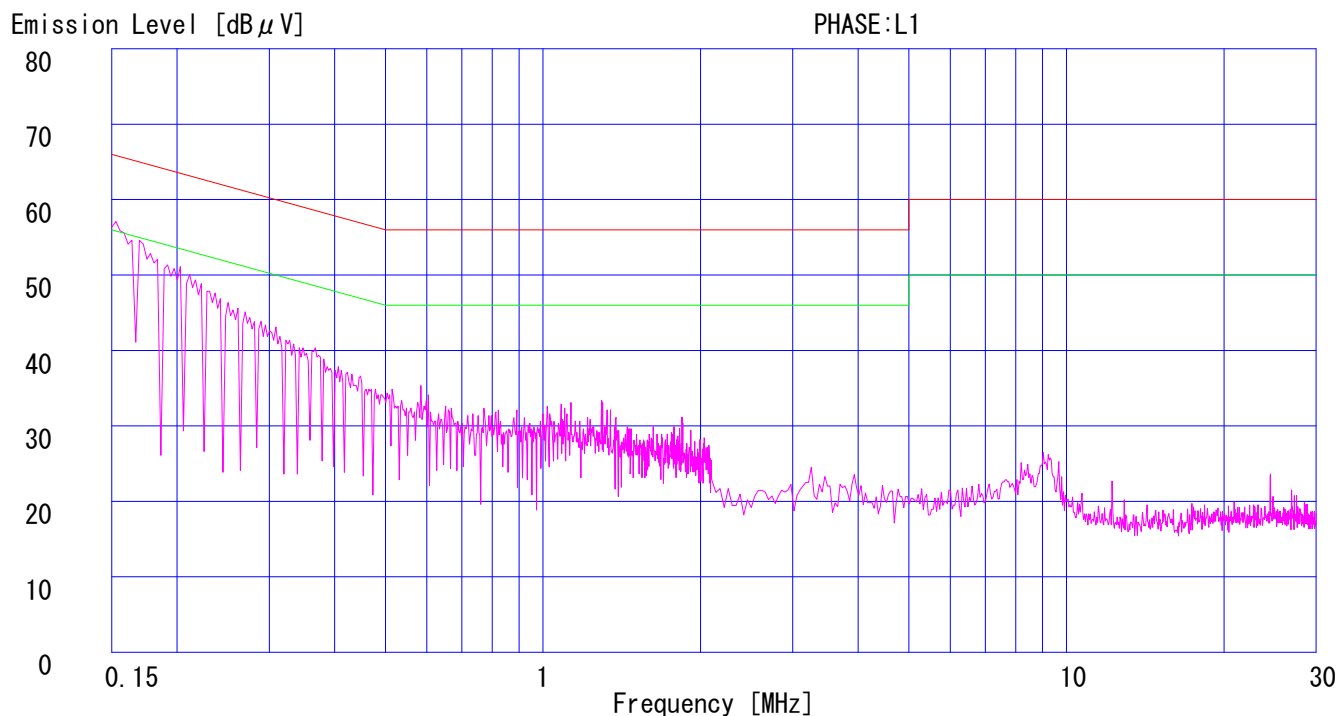
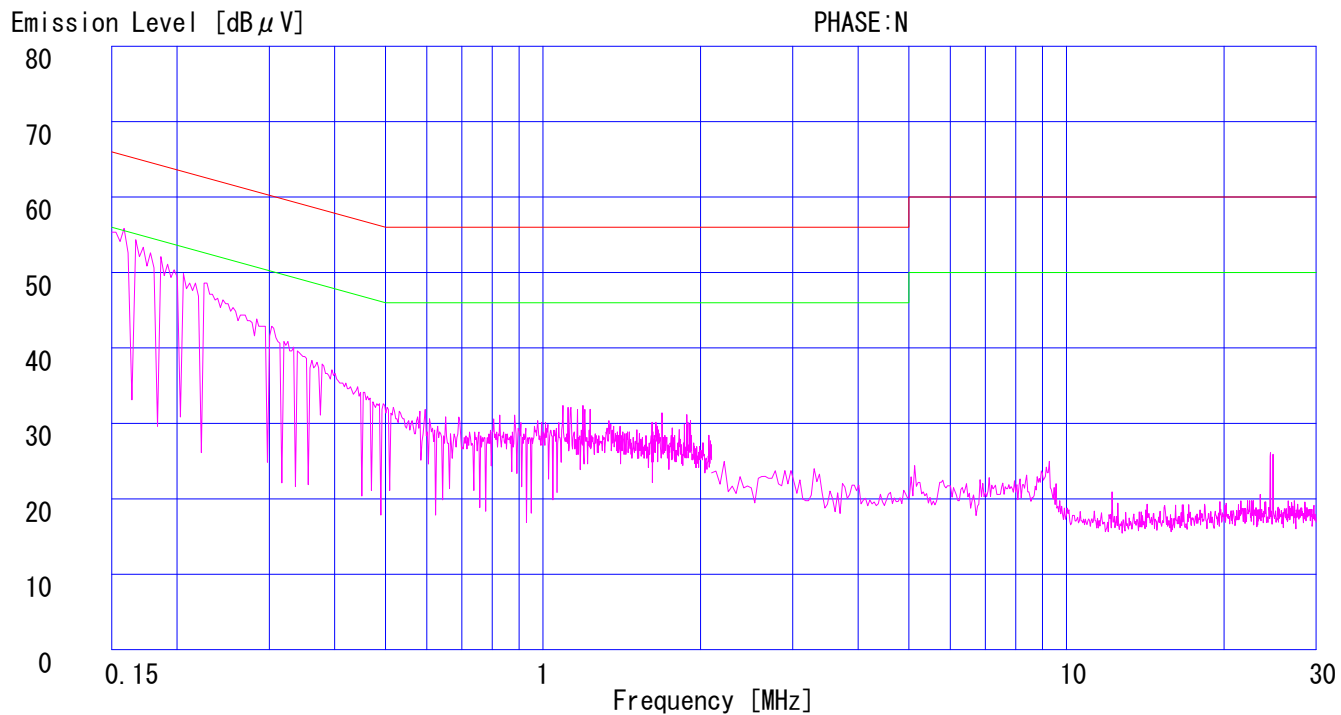
UL Apex Co., Ltd.

YOKOWA No.2 SHIELD TEST ROOM

Report No. : 26EE0195-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V594SU
Serial No. : -
Power : AC120V/60Hz
Mode : TV Reception + Rec
Remarks : 25dBmV
Date : 12/20/2005
Phase : Single Phase
Temperature : 21 °C
Humidity : 38 %
Regulation 1 : FCC Part15B CLASS B (2003)
Regulation 2 : None

Engineer : Masanori Nishiyama



DATA OF CONDUCTION TEST

UL Apex Co., Ltd.
YOKOWA No.2 SHIELD TEST ROOM
Report No. : 26EE0195-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V594SU
Serial No. : -
Power : AC120V/60Hz
Mode : AV Input 1 + Rec
Remarks : 1Vp-p
Date : 12/20/2005
Phase : Single Phase
Temperature : 21 °C
Humidity : 38 %
Regulation : FCC Part15B CLASS B(2003)

Engineer : Masanori Nishiyama

No.	FREQ. [MHz]	READING (N)		READING (L1)		LISN FACTOR [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
		QP [dB μ V]	AV	QP [dB μ V]	AV				QP [dB]	AV [dB μ V]	QP [dB μ V]	AV [dB μ V]	QP [dB]	AV [dB]
1.	0.1500	48.2	-	48.6	-	0.1	0.3	0.0	49.0	-	66.0	56.0	17.0	-
2.	0.1910	43.0	-	43.4	-	0.1	0.3	0.0	43.8	-	64.0	54.0	20.2	-
3.	0.6115	23.1	-	27.1	-	0.1	0.3	0.0	27.5	-	56.0	46.0	28.5	-
4.	1.2510	22.9	-	26.3	-	0.1	0.2	0.0	26.6	-	56.0	46.0	29.4	-
5.	7.3209	40.2	-	39.9	-	0.4	0.4	0.0	41.0	-	60.0	50.0	19.0	-
6.	16.9795	25.7	-	26.0	-	0.8	0.6	0.0	27.4	-	60.0	50.0	32.6	-

CALCULATION: READING + LISN FACTOR + CABLE LOSS + ATTEN.

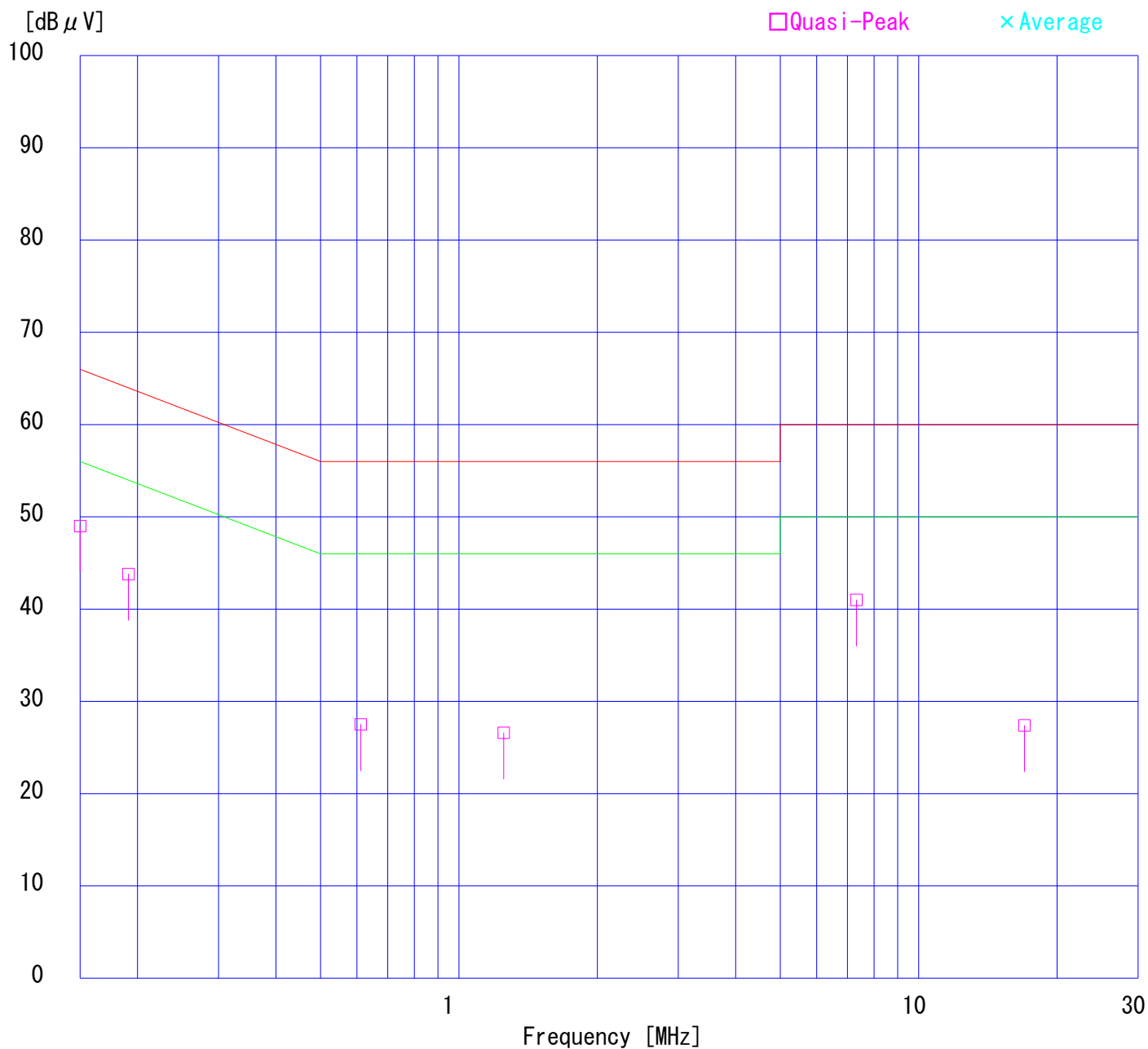
Except for the above table: adequate margin data below the limits.

DATA OF CONDUCTION TEST

UL Apex Co., Ltd.
YOKOWA No.2 SHIELD TEST ROOM
Report No. : 26EE0195-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V594SU
Serial No. : -
Power : AC120V/60Hz
Mode : AV Input 1 + Rec
Remarks : 1Vp-p
Date : 12/20/2005
Phase : Single Phase
Temperature : 21 °C
Humidity : 38 %
Regulation : FCC Part15B CLASS B(2003)

Engineer : Masanori Nishiyama



DATA OF CONDUCTION TEST CHART

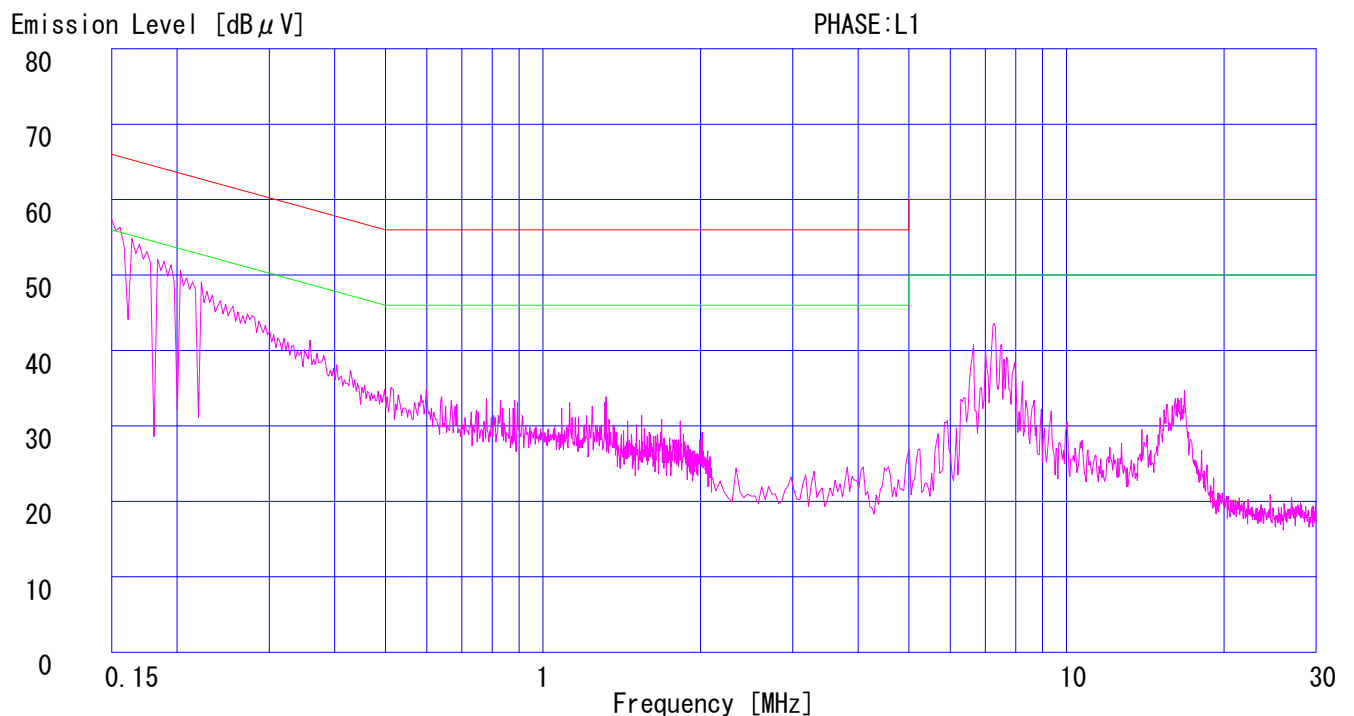
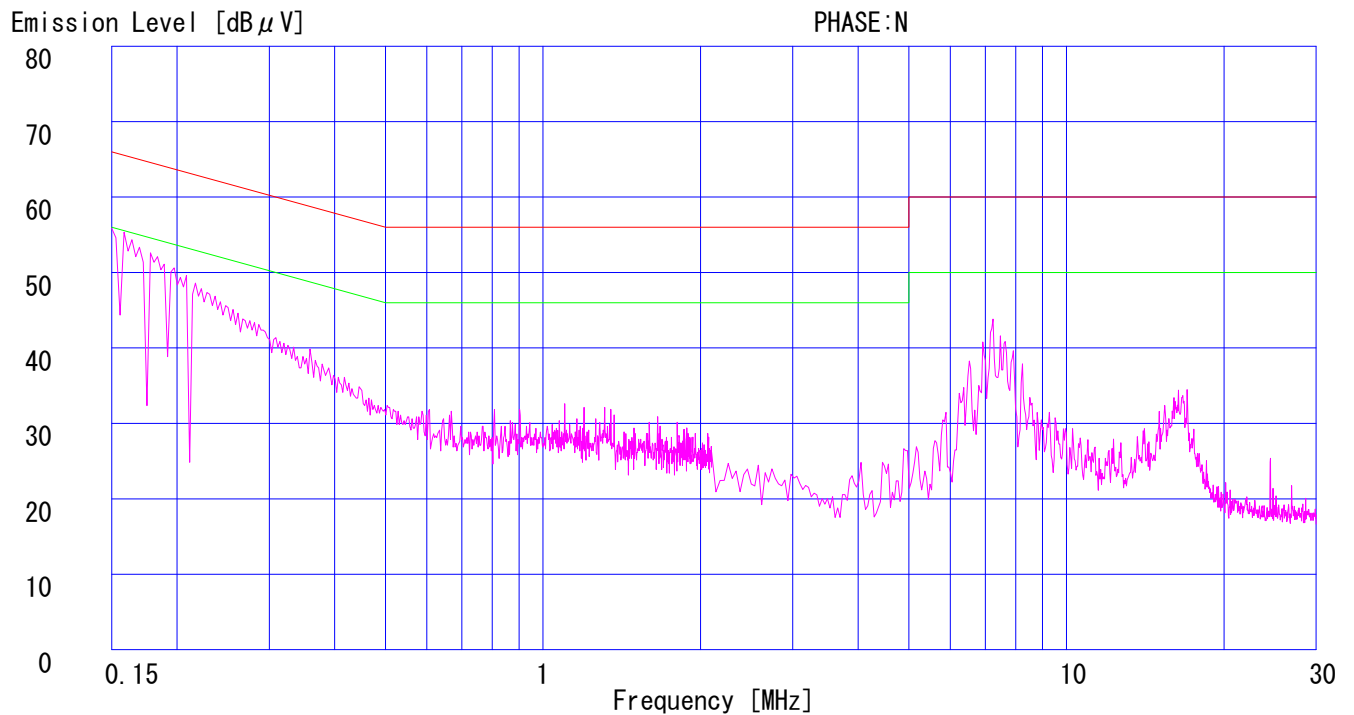
UL Apex Co., Ltd.

YOKOWA No.2 SHIELD TEST ROOM

Report No. : 26EE0195-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V594SU
Serial No. : -
Power : AC120V/60Hz
Mode : AV Input 1 + Rec
Remarks : 1Vp-p
Date : 12/20/2005
Phase : Single Phase
Temperature : 21 °C
Humidity : 38 %
Regulation 1 : FCC Part15B CLASS B (2003)
Regulation 2 : None

Engineer : Masanori Nishiyama



DATA OF CONDUCTION TEST

UL Apex Co., Ltd.
YOKOWA No.2 SHIELD TEST ROOM
Report No. : 26EE0195-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V594SU
Serial No. : -
Power : AC120V/60Hz
Mode : AV Input 1 + Rec
Remarks : 5Vp-p
Date : 12/20/2005
Phase : Single Phase
Temperature : 21 °C
Humidity : 38 %
Regulation : FCC Part15B CLASS B(2003)

Engineer : Masanori Nishiyama

No.	FREQ. [MHz]	READING (N)		READING (L1)		LISN FACTOR [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
		QP [dB μ V]	AV	QP [dB μ V]	AV				QP [dB]	AV [dB μ V]	QP [dB μ V]	AV [dB μ V]	QP [dB]	AV [dB]
1.	0.1500	48.1	-	48.5	-	0.1	0.3	0.0	48.9	-	66.0	56.0	17.1	-
2.	0.1685	45.5	-	45.9	-	0.1	0.3	0.0	46.3	-	65.0	55.0	18.7	-
3.	0.8062	21.6	-	25.6	-	0.1	0.2	0.0	25.9	-	56.0	46.0	30.1	-
4.	1.2616	23.1	-	25.9	-	0.1	0.2	0.0	26.2	-	56.0	46.0	29.8	-
5.	7.4694	33.4	-	33.1	-	0.4	0.4	0.0	34.2	-	60.0	50.0	25.8	-
6.	15.9963	26.2	-	26.9	-	0.8	0.6	0.0	28.3	-	60.0	50.0	31.7	-

CALCULATION: READING + LISN FACTOR + CABLE LOSS + ATTEN.

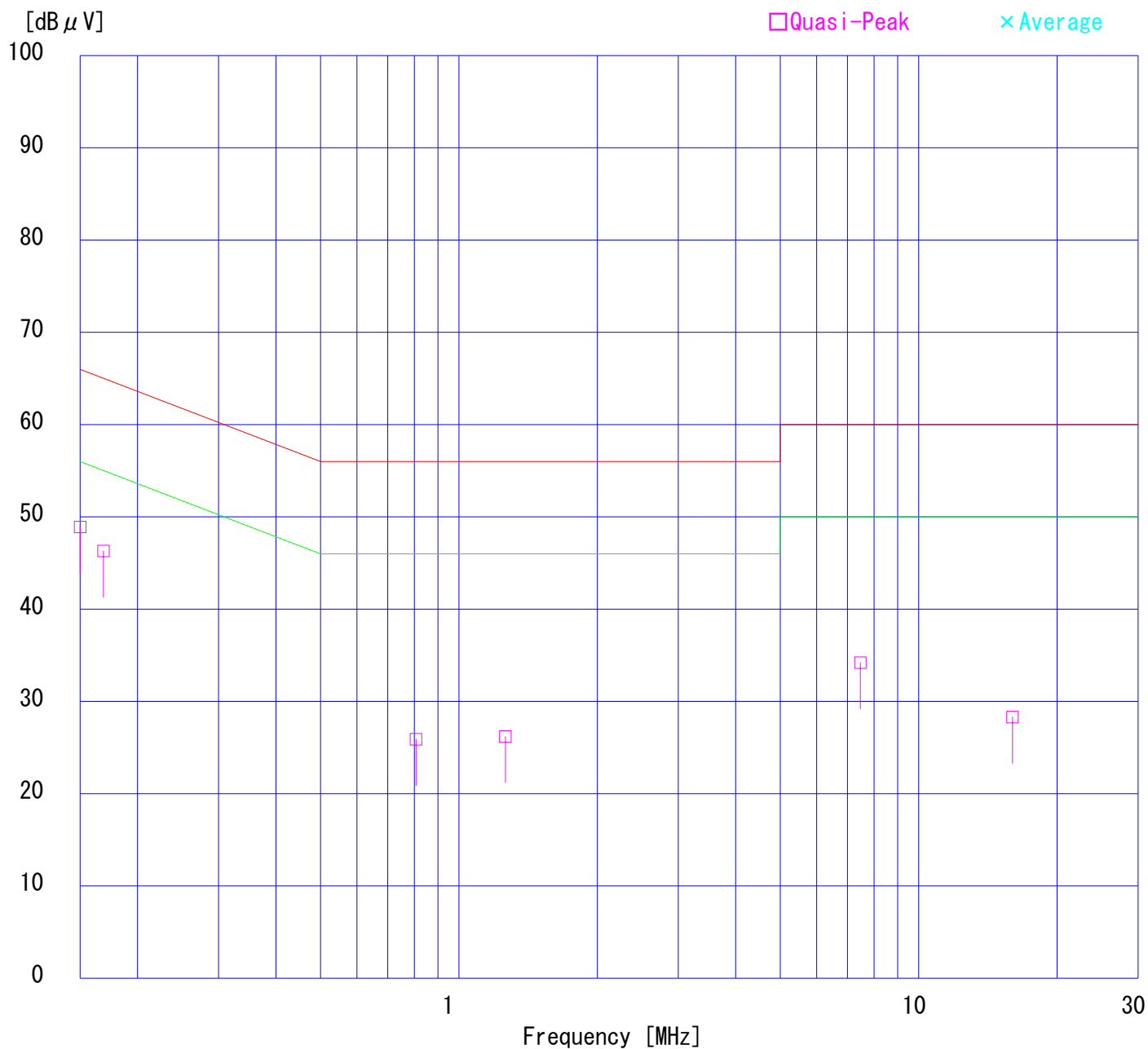
Except for the above table: adequate margin data below the limits.

DATA OF CONDUCTION TEST

UL Apex Co., Ltd.
YOKOWA No.2 SHIELD TEST ROOM
Report No. : 26EE0195-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V594SU
Serial No. : -
Power : AC120V/60Hz
Mode : AV Input 1 + Rec
Remarks : 5Vp-p
Date : 12/20/2005
Phase : Single Phase
Temperature : 21 °C
Humidity : 38 %
Regulation : FCC Part15B CLASS B(2003)

Engineer : Masanori Nishiyama



DATA OF CONDUCTION TEST CHART

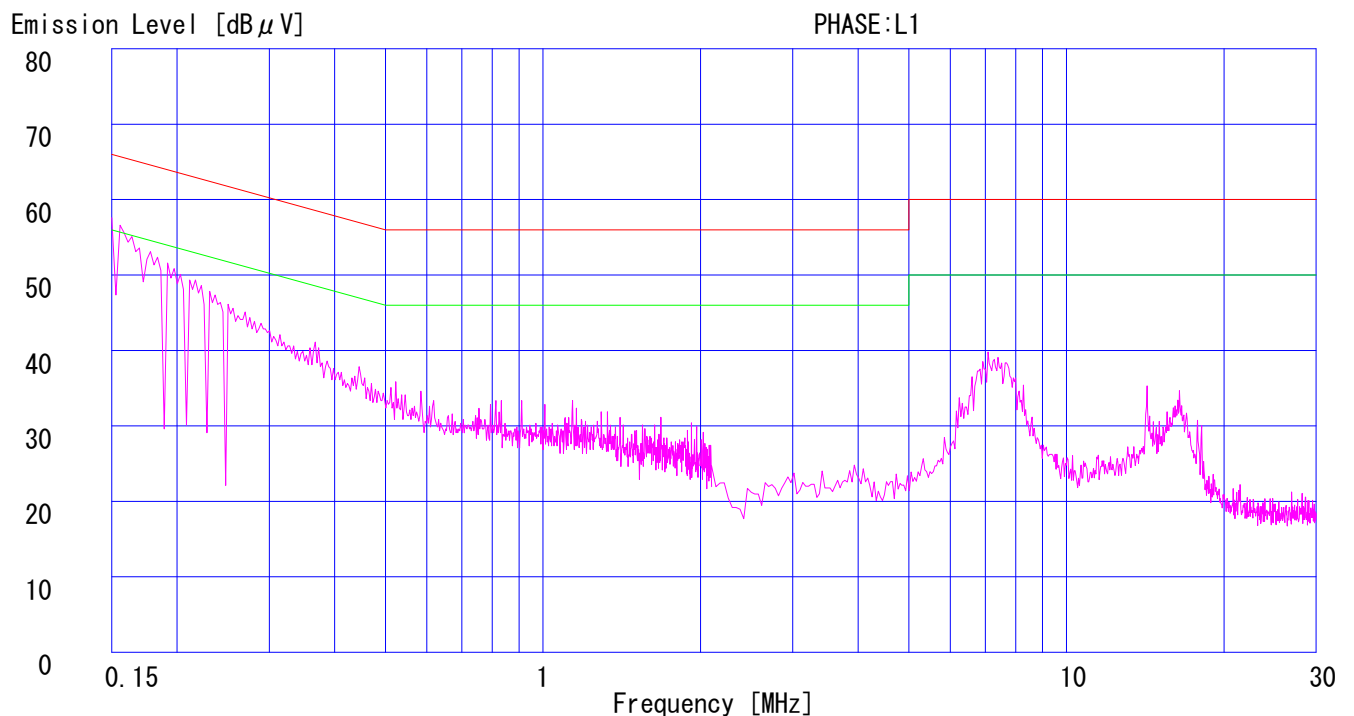
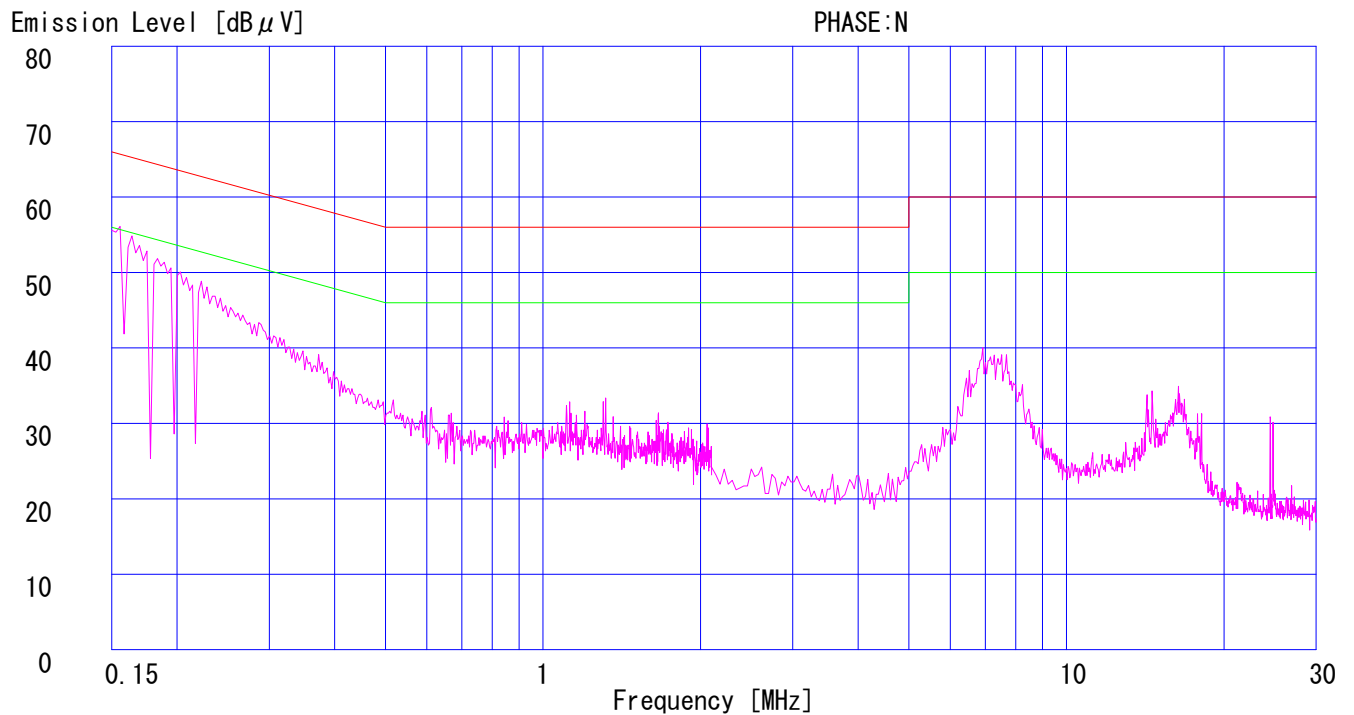
UL Apex Co., Ltd.

YOKOWA No.2 SHIELD TEST ROOM

Report No. : 26EE0195-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V594SU
Serial No. : -
Power : AC120V/60Hz
Mode : AV Input 1 + Rec
Remarks : 5Vp-p
Date : 12/20/2005
Phase : Single Phase
Temperature : 21 °C
Humidity : 38 %
Regulation 1 : FCC Part15B CLASS B (2003)
Regulation 2 : None

Engineer : Masanori Nishiyama



DATA OF CONDUCTION TEST

UL Apex Co., Ltd.
YOKOWA No.2 SHIELD TEST ROOM
Report No. : 26EE0195-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V594SU
Serial No. : -
Power : AC120V/60Hz
Mode : AV Input 2 + Rec
Remarks : 1Vp-p
Date : 12/20/2005
Phase : Single Phase
Temperature : 21 °C
Humidity : 38 %
Regulation : FCC Part15B CLASS B(2003)

Engineer : Masanori Nishiyama

No.	FREQ. [MHz]	READING (N)		READING (L1)		LISN FACTOR [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
		QP [dB μ V]	AV	QP [dB μ V]	AV				QP [dB]	AV [dB μ V]	QP [dB μ V]	AV [dB μ V]	QP [dB]	AV [dB]
1.	0.1500	48.1	-	48.5	-	0.1	0.3	0.0	48.9	-	66.0	56.0	17.1	-
2.	0.1697	45.0	-	45.6	-	0.1	0.3	0.0	46.0	-	65.0	55.0	19.0	-
3.	0.6045	23.7	-	27.2	-	0.1	0.3	0.0	27.6	-	56.0	46.0	28.4	-
4.	1.2375	22.9	-	25.3	-	0.1	0.2	0.0	25.6	-	56.0	46.0	30.4	-
5.	7.0240	38.6	-	37.9	-	0.4	0.4	0.0	39.4	-	60.0	50.0	20.6	-
6.	15.7675	26.6	-	26.7	-	0.8	0.6	0.0	28.1	-	60.0	50.0	31.9	-

CALCULATION: READING + LISN FACTOR + CABLE LOSS + ATTEN.

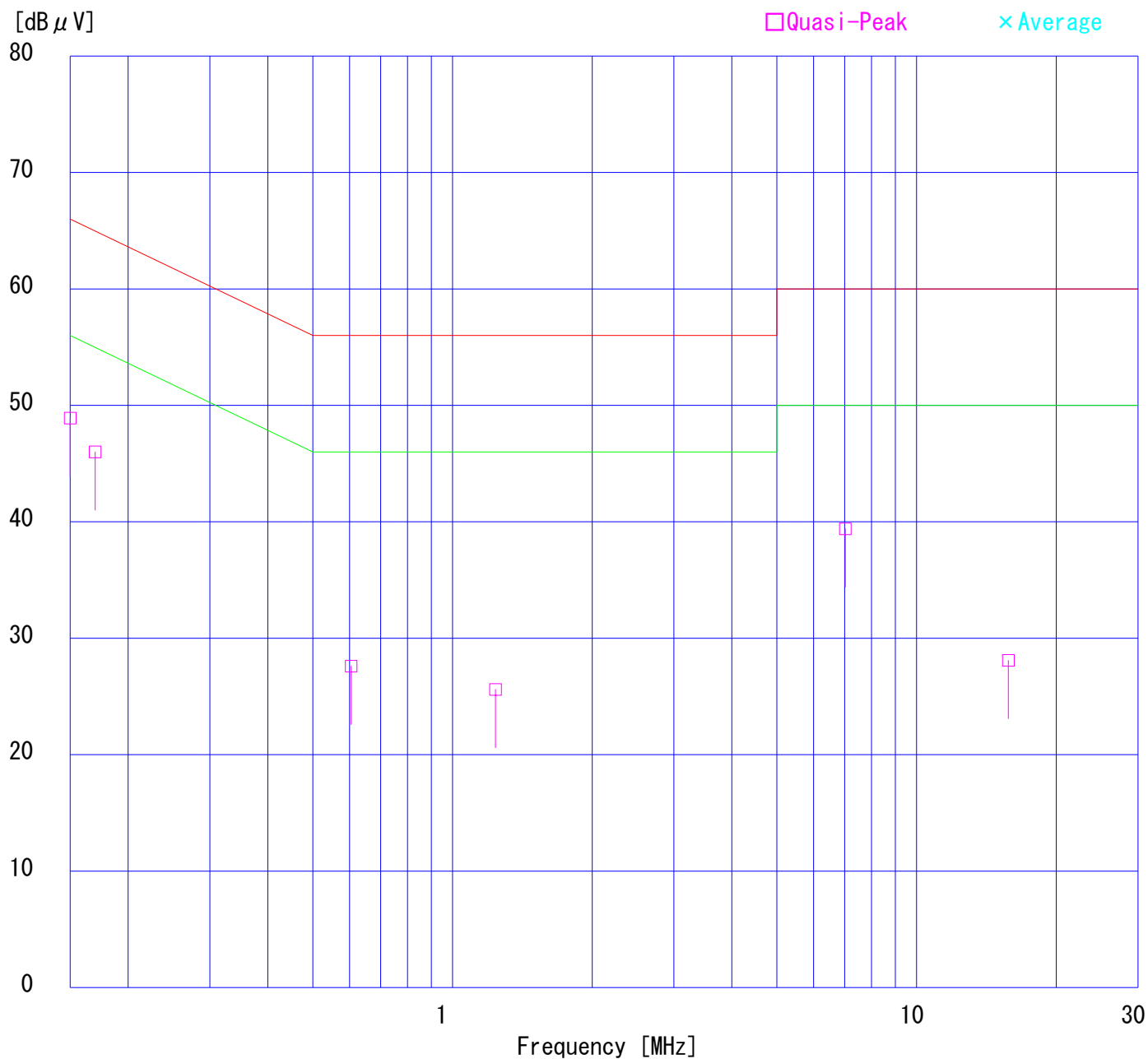
Except for the above table: adequate margin data below the limits.

DATA OF CONDUCTION TEST

UL Apex Co., Ltd.
YOKOWA No.2 SHIELD TEST ROOM
Report No. : 26EE0195-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V594SU
Serial No. : -
Power : AC120V/60Hz
Mode : AV Input 2 + Rec
Remarks : 1Vp-p
Date : 12/20/2005
Phase : Single Phase
Temperature : 21 °C
Humidity : 38 %
Regulation : FCC Part15B CLASS B(2003)

Engineer : Masanori Nishiyama



DATA OF CONDUCTION TEST CHART

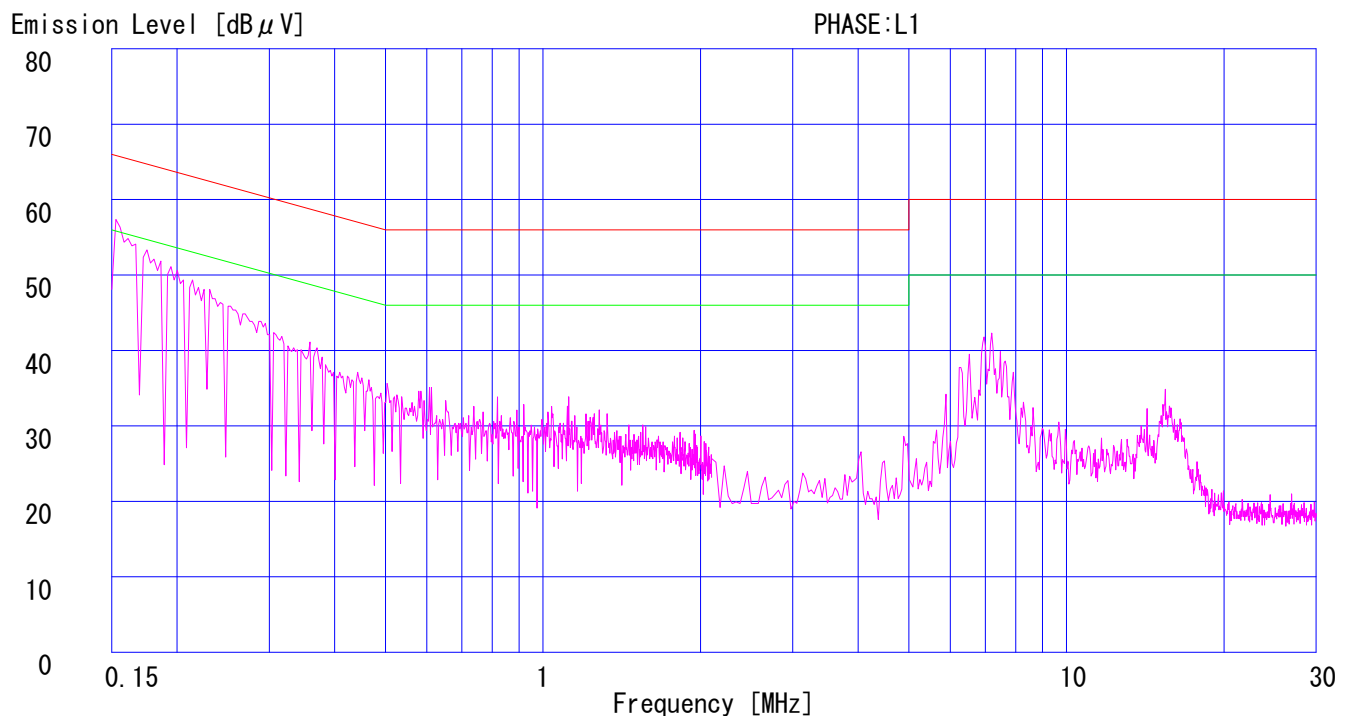
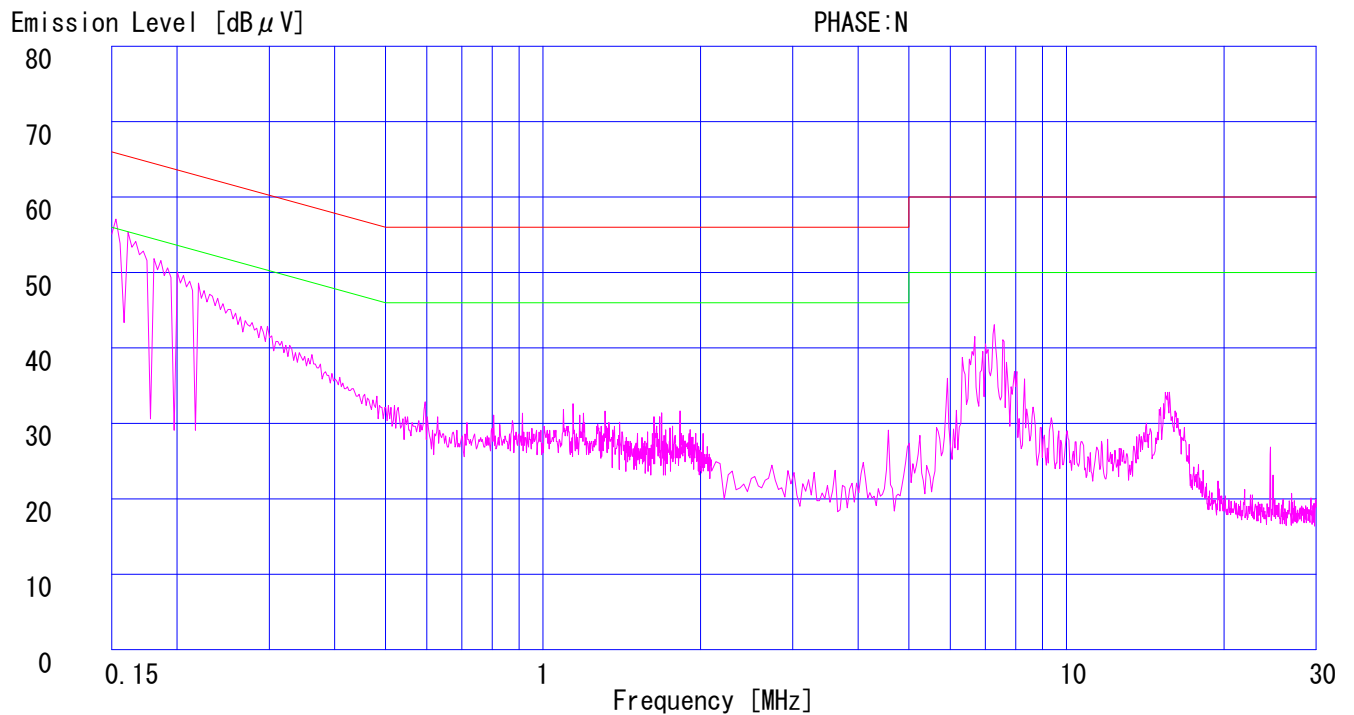
UL Apex Co., Ltd.

YOKOWA No.2 SHIELD TEST ROOM

Report No. : 26EE0195-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V594SU
Serial No. : -
Power : AC120V/60Hz
Mode : AV Input 2 + Rec
Remarks : 1Vp-p
Date : 12/20/2005
Phase : Single Phase
Temperature : 21 °C
Humidity : 38 %
Regulation 1 : FCC Part15B CLASS B (2003)
Regulation 2 : None

Engineer : Masanori Nishiyama



DATA OF CONDUCTION TEST

UL Apex Co., Ltd.
YOKOWA No.2 SHIELD TEST ROOM
Report No. : 26EE0195-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V594SU
Serial No. : -
Power : AC120V/60Hz
Mode : AV Input 2 + Rec
Remarks : 5Vp-p
Date : 12/20/2005
Phase : Single Phase
Temperature : 21 °C
Humidity : 38 %
Regulation : FCC Part15B CLASS B(2003)

Engineer : Masanori Nishiyama

No.	FREQ. [MHz]	READING (N)		READING (L1)		LISN FACTOR [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
		QP [dB μ V]	AV	QP [dB μ V]	AV				QP [dB]	AV [dB μ V]	QP [dB μ V]	AV [dB μ V]	QP [dB]	AV [dB]
1.	0.1500	48.2	-	48.2	-	0.1	0.3	0.0	48.6	-	66.0	56.0	17.4	-
2.	0.1752	45.2	-	44.8	-	0.1	0.3	0.0	45.6	-	64.7	54.7	19.1	-
3.	0.5266	22.9	-	25.7	-	0.1	0.3	0.0	26.1	-	56.0	46.0	29.9	-
4.	1.2370	23.1	-	25.9	-	0.1	0.2	0.0	26.2	-	56.0	46.0	29.8	-
5.	7.1187	33.0	-	32.9	-	0.4	0.4	0.0	33.8	-	60.0	50.0	26.2	-
6.	15.4874	26.8	-	27.1	-	0.8	0.6	0.0	28.5	-	60.0	50.0	31.5	-

CALCULATION: READING + LISN FACTOR + CABLE LOSS + ATTEN.

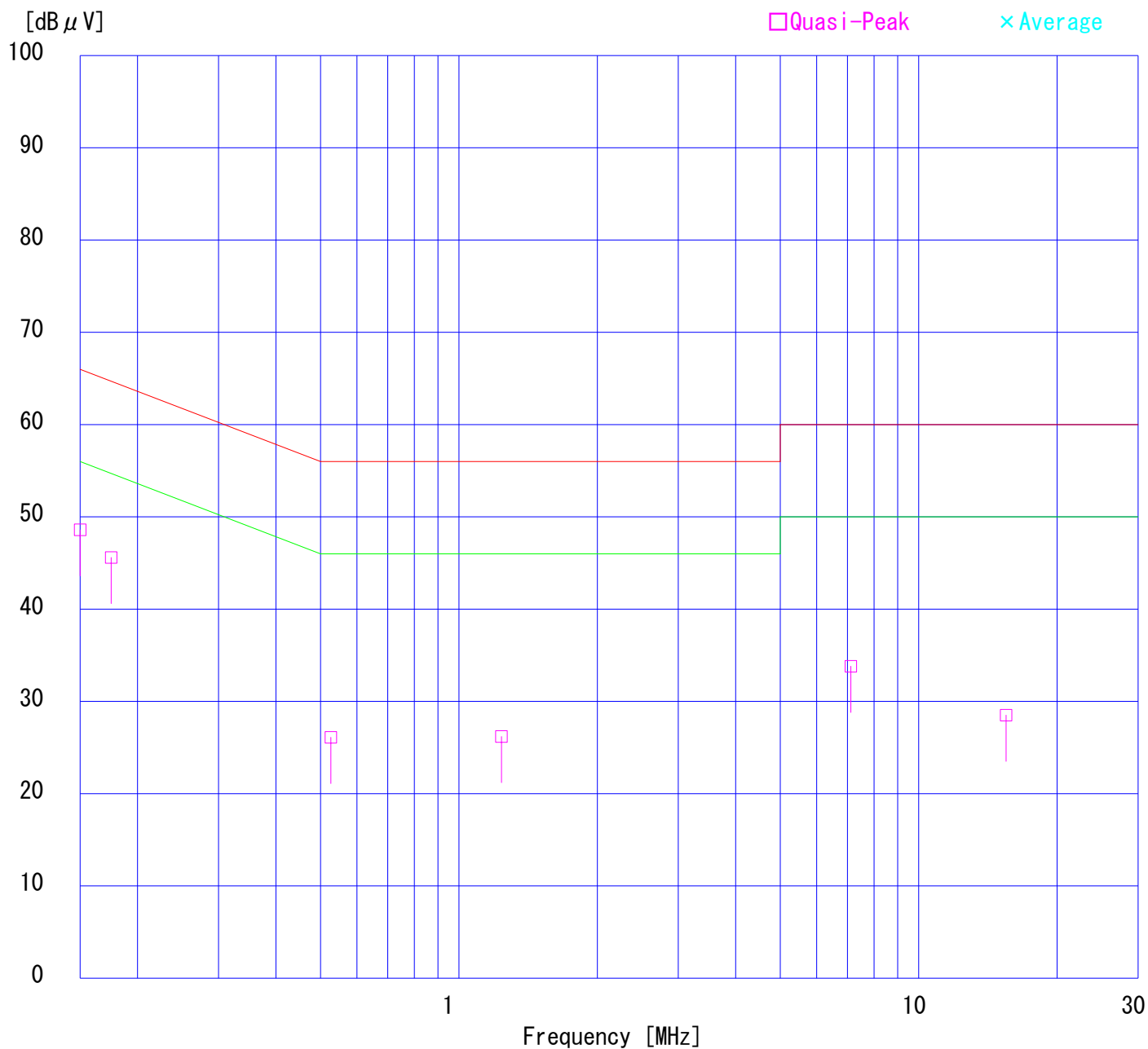
Except for the above table: adequate margin data below the limits.

DATA OF CONDUCTION TEST

UL Apex Co., Ltd.
YOKOWA No.2 SHIELD TEST ROOM
Report No. : 26EE0195-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V594SU
Serial No. : -
Power : AC120V/60Hz
Mode : AV Input 2 + Rec
Remarks : 5Vp-p
Date : 12/20/2005
Phase : Single Phase
Temperature : 21 °C
Humidity : 38 %
Regulation : FCC Part15B CLASS B(2003)

Engineer : Masanori Nishiyama



DATA OF CONDUCTION TEST CHART

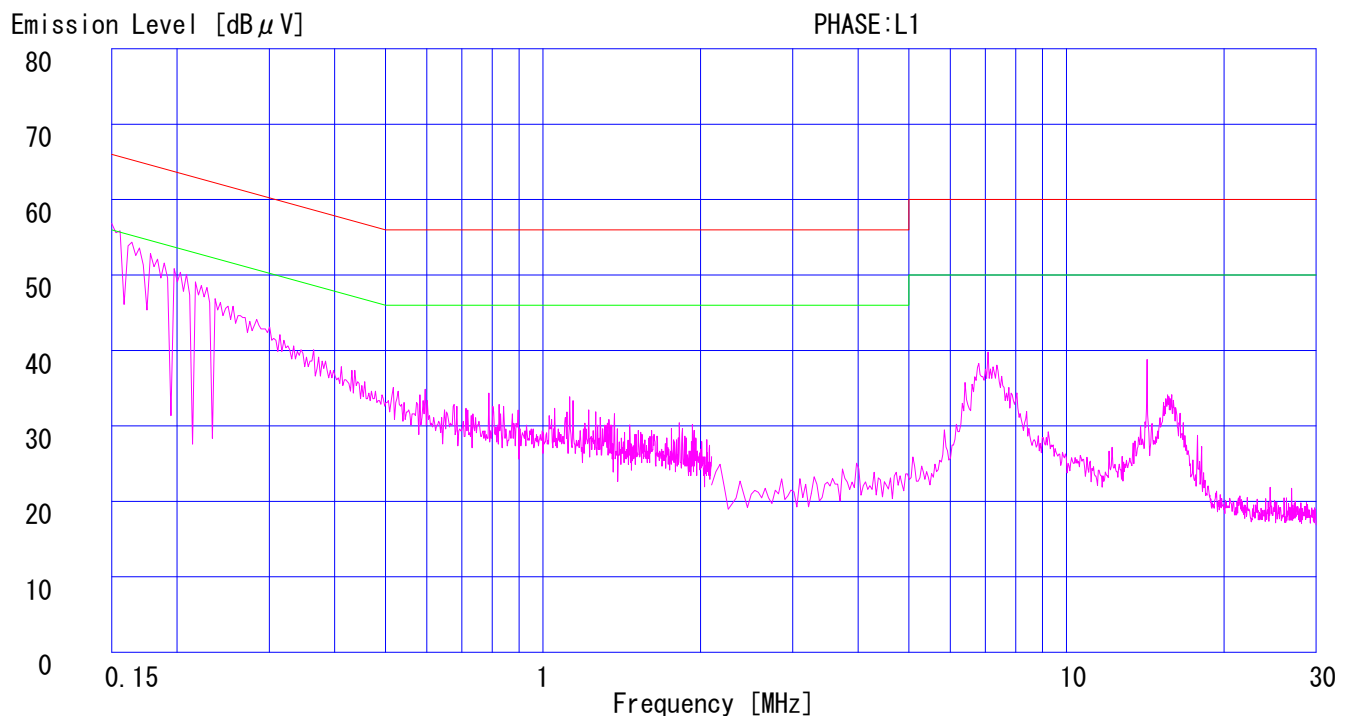
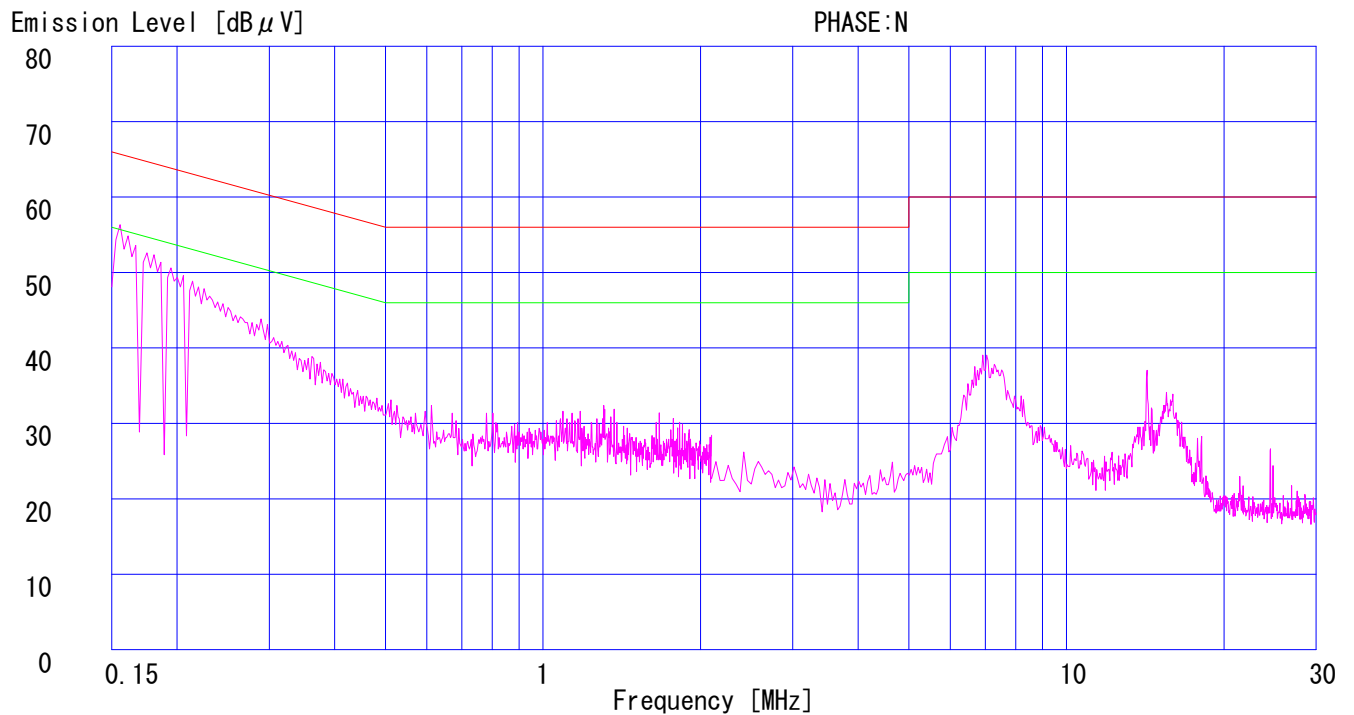
UL Apex Co., Ltd.

YOKOWA No.2 SHIELD TEST ROOM

Report No. : 26EE0195-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V594SU
Serial No. : -
Power : AC120V/60Hz
Mode : AV Input 2 + Rec
Remarks : 5Vp-p
Date : 12/20/2005
Phase : Single Phase
Temperature : 21 °C
Humidity : 38 %
Regulation 1 : FCC Part15B CLASS B (2003)
Regulation 2 : None

Engineer : Masanori Nishiyama



DATA OF CONDUCTION TEST

UL Apex Co., Ltd.

YOKOWA No.2 SHIELD TEST ROOM

Report No. : 26EE0195-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V594SU
Serial No. : -
Power : AC120V/60Hz
Mode : VCR Playback
Remarks :
Date : 12/20/2005
Phase : Single Phase
Temperature : 21 °C
Humidity : 38 %
Regulation : FCC Part15B CLASS B(2003)

Engineer : Masanori Nishiyama

No.	FREQ. [MHz]	READING (N)		READING (L1)		LISN FACTOR [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
		QP [dB μ V]	AV	QP [dB μ V]	AV				QP [dB]	AV [dB μ V]	QP [dB μ V]	AV [dB μ V]	QP [dB]	AV [dB]
1.	0.1500	47.6	-	47.9	-	0.1	0.3	0.0	48.3	-	66.0	56.0	17.7	-
2.	0.1678	50.5	46.8	50.9	47.2	0.1	0.3	0.0	51.3	47.6	65.1	55.1	13.8	7.5
3.	0.2346	41.7	-	41.7	-	0.1	0.3	0.0	42.1	-	62.3	52.3	20.2	-
4.	0.7407	34.3	-	35.2	-	0.1	0.2	0.0	35.5	-	56.0	46.0	20.5	-
5.	3.2351	38.8	-	39.1	-	0.2	0.3	0.0	39.6	-	56.0	46.0	16.4	-
6.	7.2120	42.8	-	42.8	-	0.4	0.4	0.0	43.6	-	60.0	50.0	16.4	-
7.	15.5324	36.7	-	37.6	-	0.8	0.6	0.0	39.0	-	60.0	50.0	21.0	-

CALCULATION: READING + LISN FACTOR + CABLE LOSS + ATTEN.

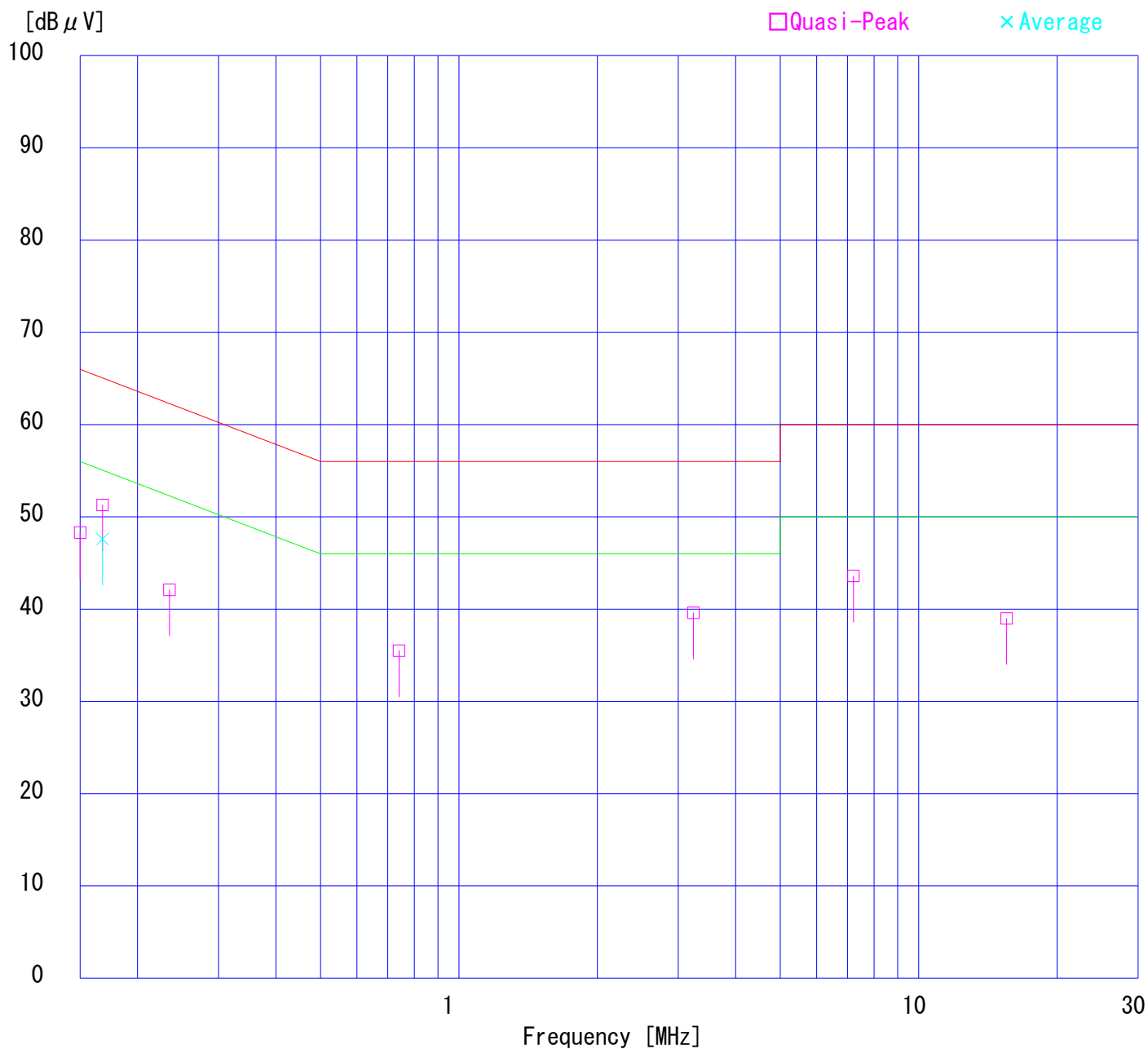
Except for the above table: adequate margin data below the limits.

DATA OF CONDUCTION TEST

UL Apex Co., Ltd.
YOKOWA No.2 SHIELD TEST ROOM
Report No. : 26EE0195-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V594SU
Serial No. : -
Power : AC120V/60Hz
Mode : VCR Playback
Remarks :
Date : 12/20/2005
Phase : Single Phase
Temperature : 21 °C
Humidity : 38 %
Regulation : FCC Part15B CLASS B(2003)

Engineer : Masanori Nishiyama



DATA OF CONDUCTION TEST CHART

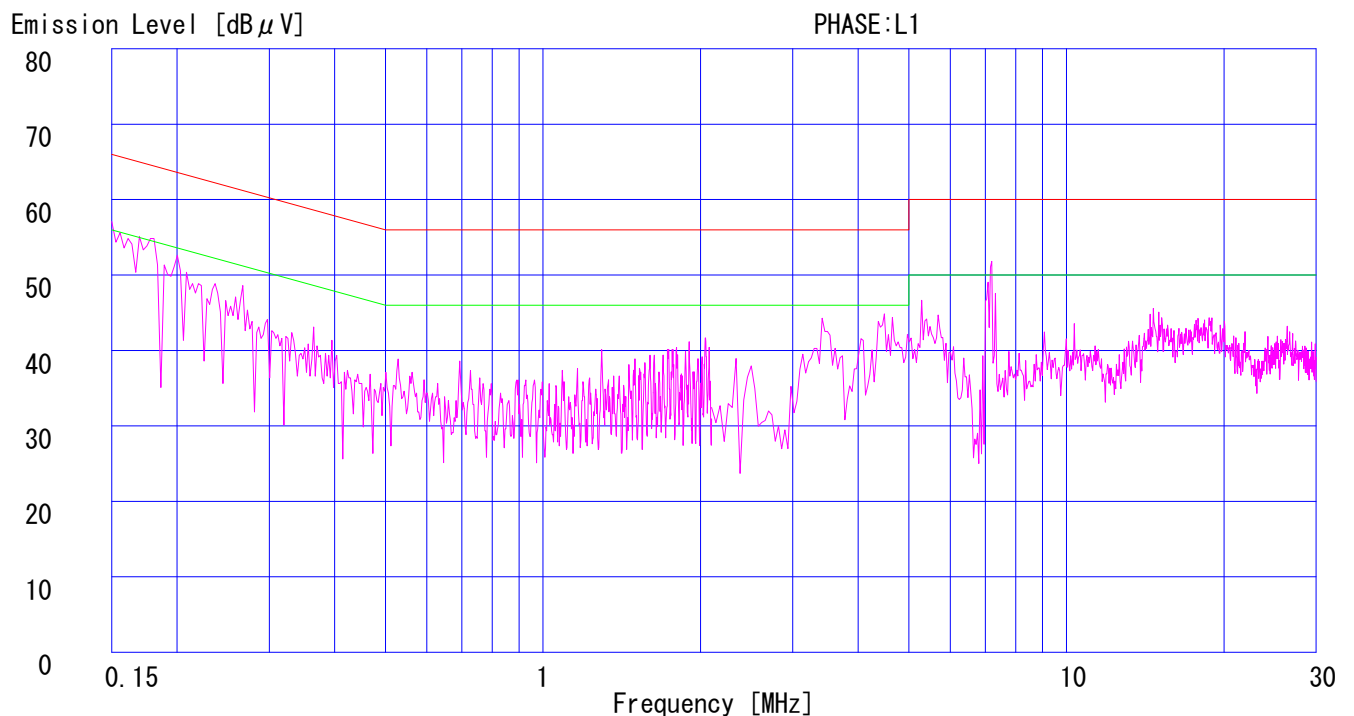
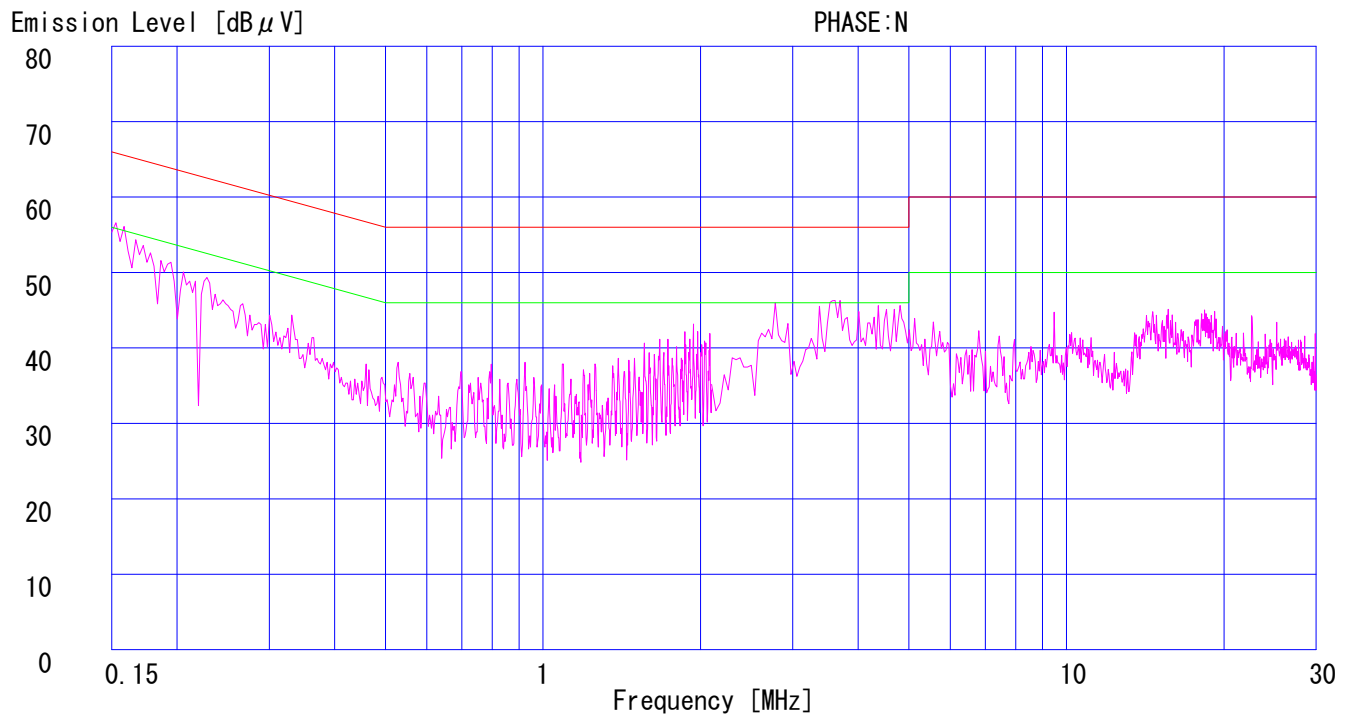
UL Apex Co., Ltd.

YOKOWA No.2 SHIELD TEST ROOM

Report No. : 26EE0195-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V594SU
Serial No. : -
Power : AC120V/60Hz
Mode : VCR Playback
Remarks :
Date : 12/20/2005
Phase : Single Phase
Temperature : 21 °C
Humidity : 38 %
Regulation 1 : FCC Part15B CLASS B (2003)
Regulation 2 : None

Engineer : Masanori Nishiyama



DATA OF CONDUCTION TEST

UL Apex Co., Ltd.
YOKOWA No.2 SHIELD TEST ROOM
Report No. : 26EE0195-YW-1

Applicant	: Orion Electric Co., Ltd.		
Kind of Equipment	: DVD/VCR		
Model No.	: SD-V594SU		
Serial No.	: -		
Power	: AC120V/60Hz		
Mode	: HDMI Mode (DVD Play)		
Remarks	:		
Date	: 12/20/2005		
Phase	: Single Phase		
Temperature	: 21 °C	Engineer	: Masanori Nishiyama
Humidity	: 38 %		
Regulation	: FCC Part15B CLASS B (2003)		

No.	FREQ. [MHz]	READING (N)		READING (L1)		LISN FACTOR [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
		QP [dB μ V]	AV	QP [dB μ V]	AV				QP [dB]	AV [dB μ V]	QP [dB μ V]	AV [dB μ V]	QP [dB]	AV [dB]
1.	0.1500	47.2	-	47.5	-	0.1	0.3	0.0	47.9	-	66.0	56.0	18.1	-
2.	0.1677	51.4	47.5	51.7	47.2	0.1	0.3	0.0	52.1	47.9	65.1	55.1	13.0	7.2
3.	0.2696	39.4	-	39.7	-	0.1	0.3	0.0	40.1	-	61.1	51.1	21.0	-
4.	0.5043	33.7	-	33.7	-	0.1	0.3	0.0	34.1	-	56.0	46.0	21.9	-
5.	1.7532	33.3	-	33.1	-	0.1	0.3	0.0	33.7	-	56.0	46.0	22.3	-
6.	9.9120	34.1	-	34.9	-	0.5	0.5	0.0	35.9	-	60.0	50.0	24.1	-
7.	18.2734	37.8	-	38.9	-	0.9	0.7	0.0	40.5	-	60.0	50.0	19.5	-

CALCULATION: READING + LISN FACTOR + CABLE LOSS + ATTEN.

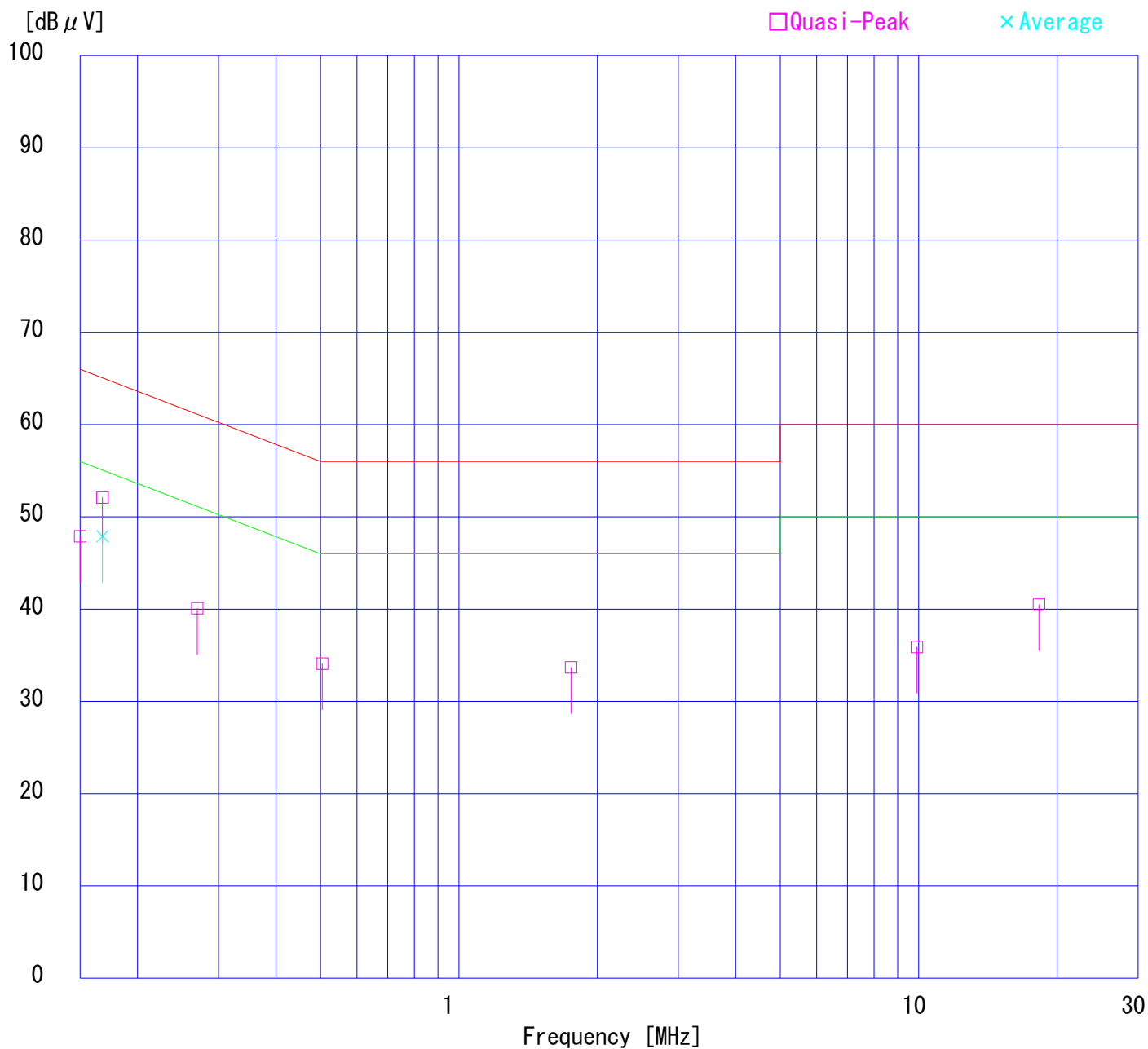
Except for the above table: adequate margin data below the limits.

DATA OF CONDUCTION TEST

UL Apex Co., Ltd.
YOKOWA No.2 SHIELD TEST ROOM
Report No. : 26EE0195-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V594SU
Serial No. : -
Power : AC120V/60Hz
Mode : HDMI Mode (DVD Play)
Remarks :
Date : 12/20/2005
Phase : Single Phase
Temperature : 21 °C
Humidity : 38 %
Regulation : FCC Part15B CLASS B (2003)

Engineer : Masanori Nishiyama



DATA OF CONDUCTION TEST CHART

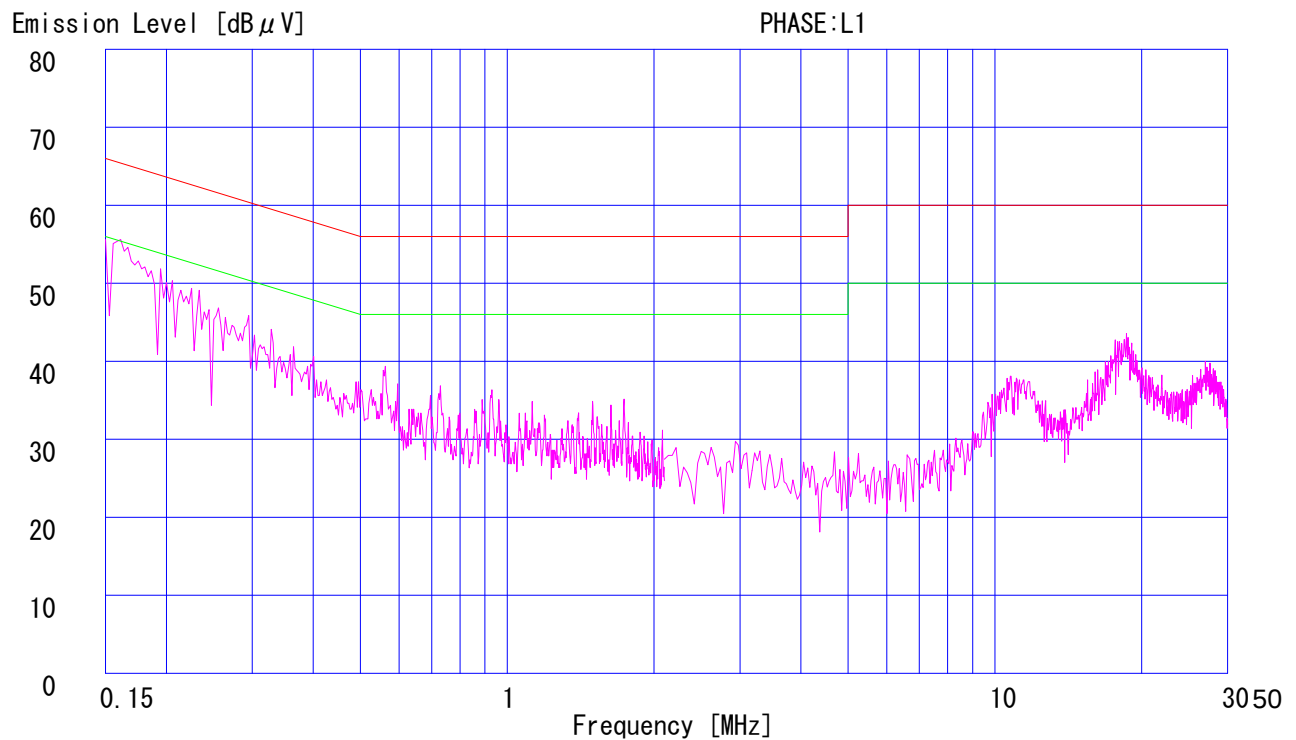
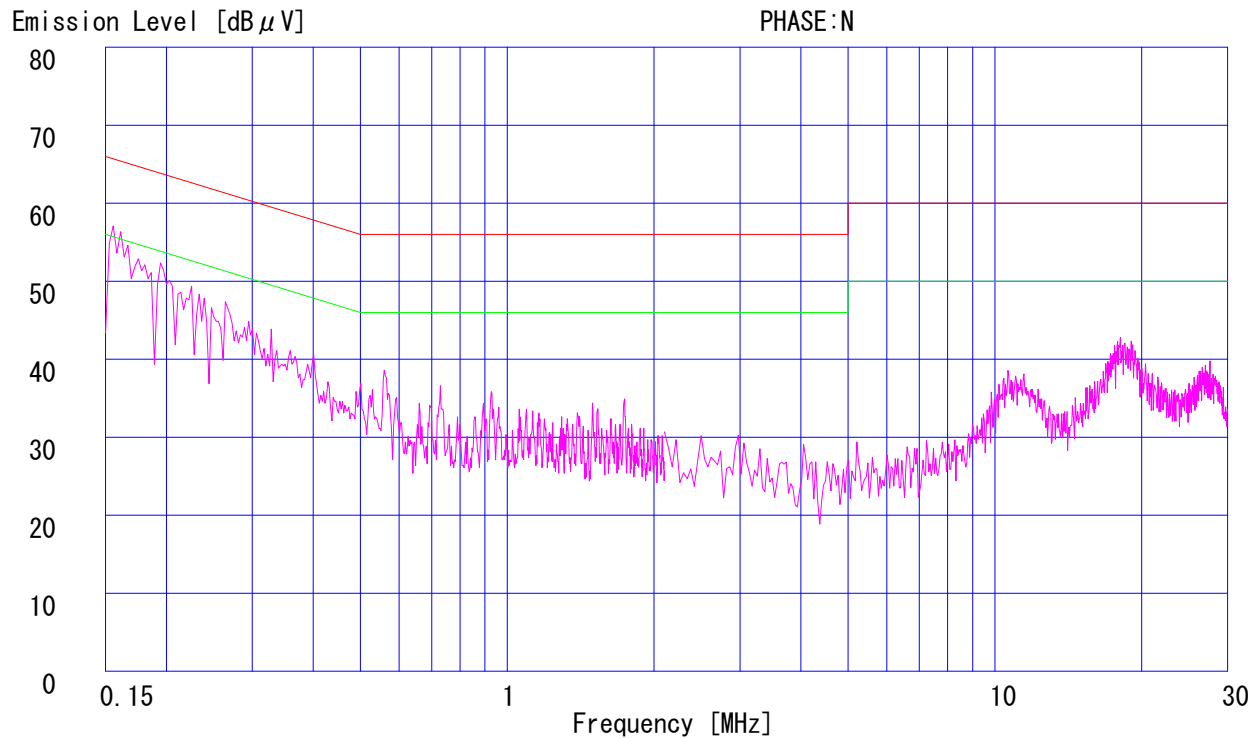
UL Apex Co., Ltd.

YOKOWA No.2 SHIELD TEST ROOM

Report No. : 26EE0195-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V594SU
Serial No. : -
Power : AC120V/60Hz
Mode : HDMI Mode (DVD Play)
Remarks :
Date : 12/20/2005
Phase : Single Phase
Temperature : 21 °C
Humidity : 38 %
Regulation 1 : FCC Part15B CLASS B (2003)
Regulation 2 : None

Engineer : Masanori Nishiyama



DATA OF CONDUCTION TEST

UL Apex Co., Ltd.

YOKOWA No.2 SHIELD TEST ROOM

Report No. : 26EE0195-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V594SU
Serial No. : -
Power : AC120V/60Hz
Mode : USB Mode
Remarks :
Date : 12/20/2005
Phase : Single Phase
Temperature : 21 °C
Humidity : 38 %
Regulation : FCC Part15B CLASS B(2003)

Engineer : Masanori Nishiyama

No.	FREQ. [MHz]	READING (N)		READING (L1)		LISN FACTOR [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
		QP [dB μ V]	AV	QP [dB μ V]	AV				QP [dB]	AV [dB μ V]	QP [dB μ V]	AV [dB μ V]	QP [dB]	AV [dB]
1.	0.1500	47.2	-	47.5	-	0.1	0.3	0.0	47.9	-	66.0	56.0	18.1	-
2.	0.1672	51.0	46.9	51.8	47.7	0.1	0.3	0.0	52.2	48.1	65.1	55.1	12.9	7.0
3.	0.2714	39.1	-	39.0	-	0.1	0.3	0.0	39.5	-	61.1	51.1	21.6	-
4.	0.5733	33.4	-	36.1	-	0.1	0.3	0.0	36.5	-	56.0	46.0	19.5	-
5.	1.7534	33.6	-	33.3	-	0.1	0.3	0.0	34.0	-	56.0	46.0	22.0	-
6.	9.9777	32.9	-	30.8	-	0.5	0.5	0.0	33.9	-	60.0	50.0	26.1	-
7.	17.9361	40.3	-	40.7	-	0.9	0.7	0.0	42.3	-	60.0	50.0	17.7	-

CALCULATION: READING + LISN FACTOR + CABLE LOSS + ATTEN.

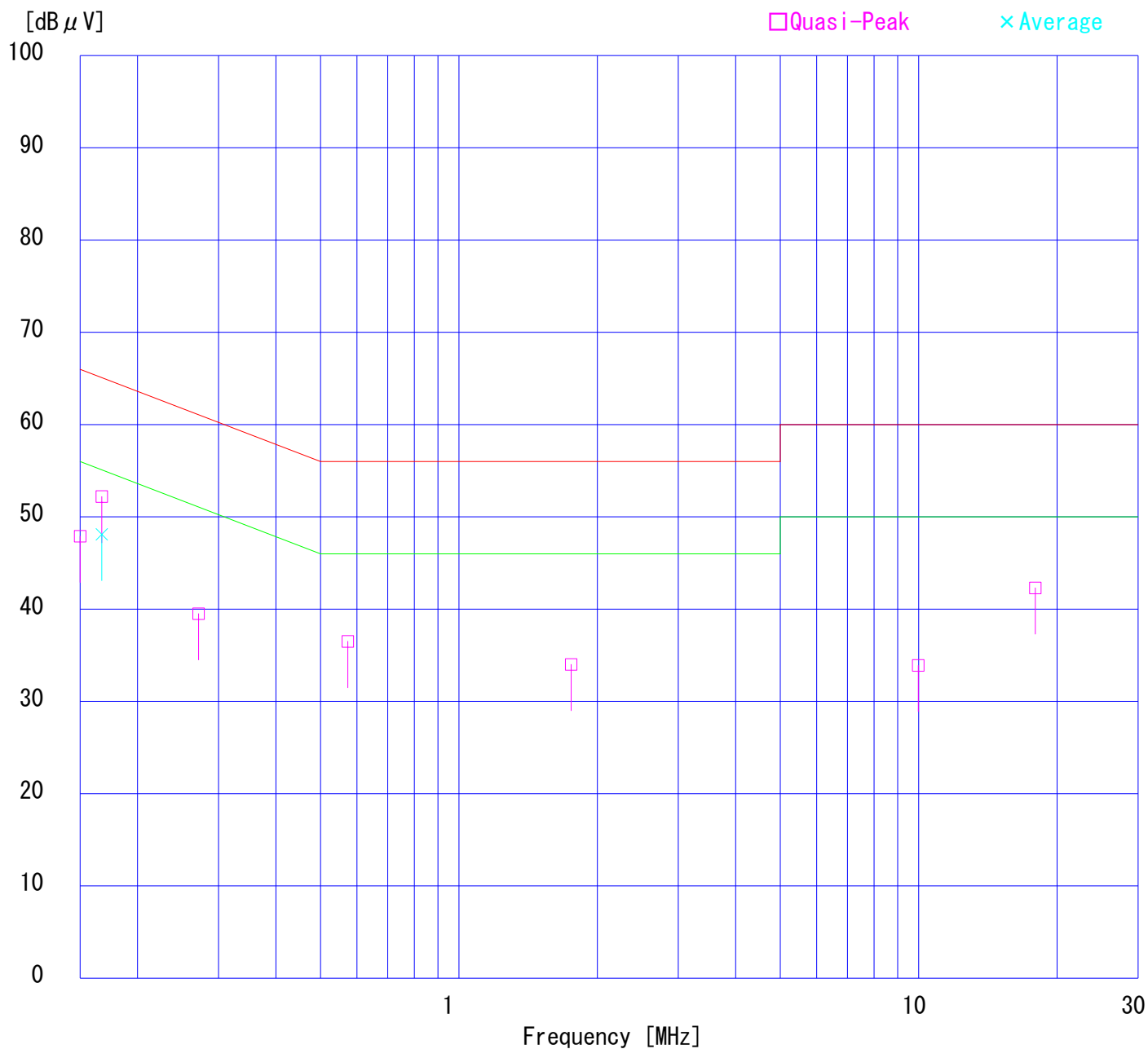
Except for the above table: adequate margin data below the limits.

DATA OF CONDUCTION TEST

UL Apex Co., Ltd.
YOKOWA No.2 SHIELD TEST ROOM
Report No. : 26EE0195-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V594SU
Serial No. : -
Power : AC120V/60Hz
Mode : USB Mode
Remarks :
Date : 12/20/2005
Phase : Single Phase
Temperature : 21 °C
Humidity : 38 %
Regulation : FCC Part15B CLASS B(2003)

Engineer : Masanori Nishiyama



DATA OF CONDUCTION TEST CHART

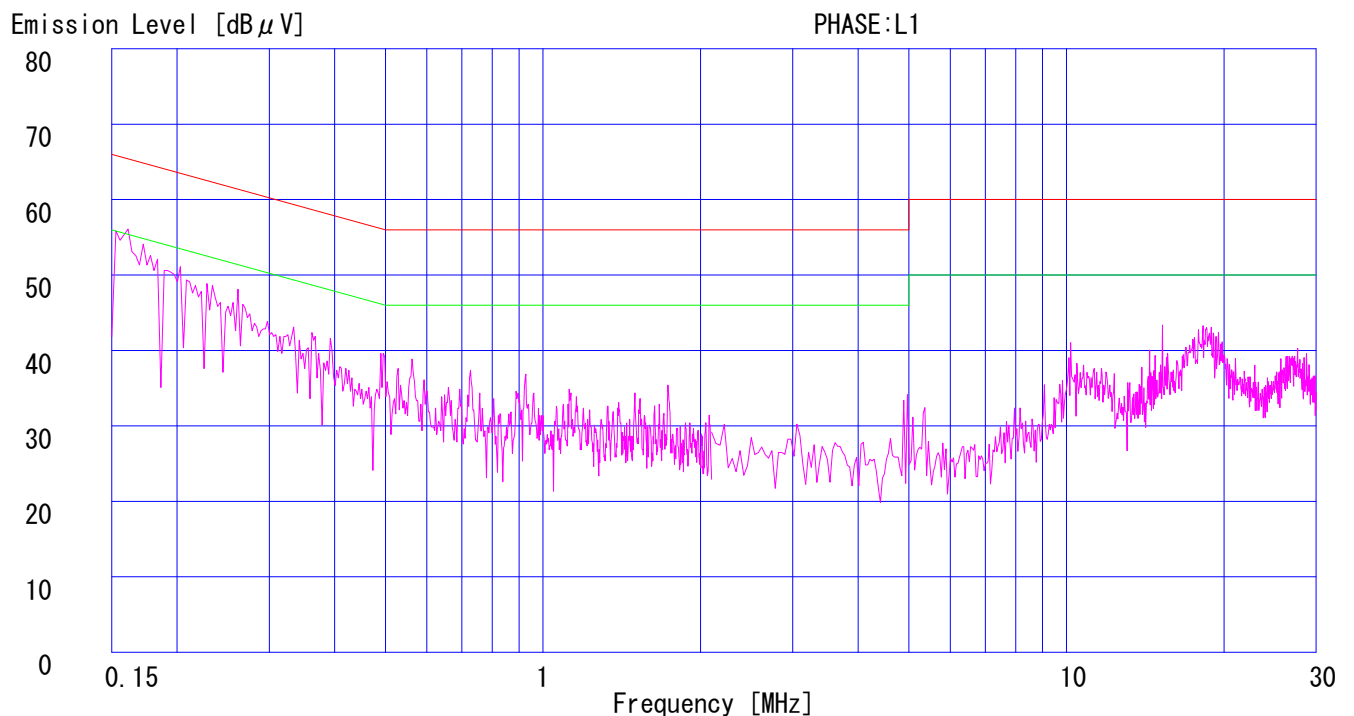
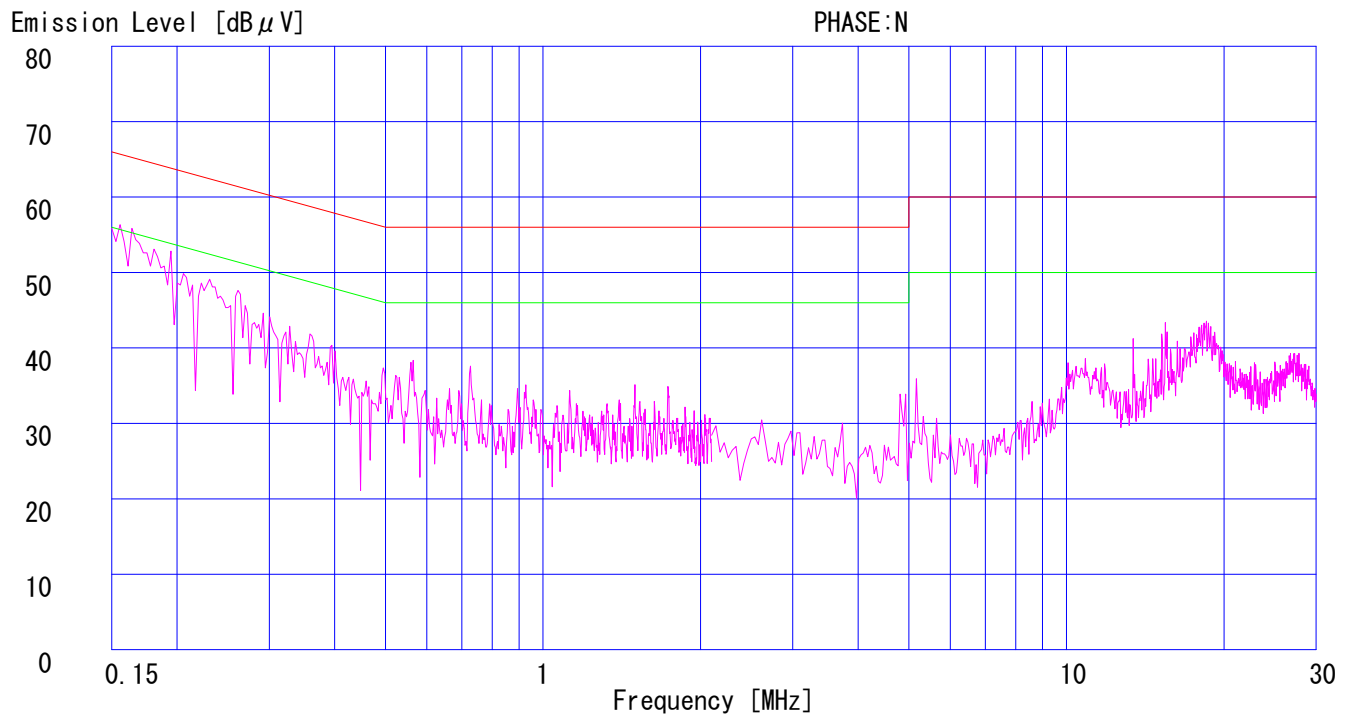
UL Apex Co., Ltd.

YOKOWA No.2 SHIELD TEST ROOM

Report No. : 26EE0195-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V594SU
Serial No. : -
Power : AC120V/60Hz
Mode : USB Mode
Remarks :
Date : 12/20/2005
Phase : Single Phase
Temperature : 21 °C
Humidity : 38 %
Regulation 1 : FCC Part15B CLASS B (2003)
Regulation 2 : None

Engineer : Masanori Nishiyama



DATA OF RADIATION TEST

UL Apex Co., Ltd.
Yokowa EMC No. 1Open Test Site

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL No. : SD-V594SU
POWER : AC120V/60Hz
DESCRIPTION : TV Reception

REPORT No. : 26EE0195-YW-1
REGULATION : FCC PART15 B
TEST DISTANCE : 3m
ATTENUATION : 101-847MHz 6dB
1030-1694MHz 0dB
DATE : December 20, 2005
TEMP./HUMID. : 21deg.C / 39%
ENGINEER : Tsubasa Takayama

*C.Factor[dB]=ANT Factor + Cable Loss - Amp Gain

For the measurement above 1GHz, measurement of AV detector is performed only when the result of PK detector exceed the limit of AV.

CH.	FREQ	READING(QP)				ANT	C.Factor	RESULT(QP)				LIMIT			MARGIN(QP)			
	[MHz]	HOR.	VER.			TYPE	[dBuV]	HOR.	VER.			[QP]			HOR.	VER.		
		[dBuV]						[dBuV/m]				[dBuV/m]			[dB]			
VHF																		
2	101	26.3	24.8			BC	-11.1	15.2	13.7			43.5			28.3	29.8		
	202					BC						43.5			>15.0			
	303					LO						46.0						
	404					LO						46.0						
	505					LO						46.0						
	606					LO						46.0						
	707					LO						46.0						
	808					LO						46.0						
	909					LO						46.0						
		READING(QP)		READING(AV)		ANT	C.Factor	RESULT(PK)		RESULT(AV)		LIMIT	LIMIT		MARGIN(PK)		MARGIN(AV)	
		HOR. VER.		HOR. VER.		TYPE	[dBuV]	HOR. VER.		HOR. VER.		[PK]	[AV]		HOR. VER.		HOR. VER.	
		[dBuV]		[dBuV]				[dBuV/m]		[dBuV/m]		[dBuV/m]	[dBuV/m]		[dB]		[dB]	[dB]
	1010					HO						74.0	54.0		>27.0		>10.0	
	1111					HO						74.0	54.0					
	1212					HO						74.0	54.0					
	1313					HO						74.0	54.0					
	1414					HO						74.0	54.0					
	1515					HO						74.0	54.0					
	1616					HO						74.0	54.0					
CH.	FREQ	READING(QP)				ANT	C.Factor	RESULT(QP)				LIMIT			MARGIN(QP)			
	[MHz]	HOR.	VER.			TYPE	[dBuV]	HOR.	VER.			[QP]			HOR.	VER.		
		[dBuV]						[dBuV/m]				[dBuV/m]			[dB]			
3	107	26.3	26.1			BC	-10.2	16.1	15.9			43.5			27.4	27.6		
	214					BC						43.5			> 15.0			
	321					LO						46.0						
	428					LO						46.0						
	535					LO						46.0						
	642					LO						46.0						
	749					LO						46.0						
	856					LO						46.0						
	963					LO						54.0						
		READING(PK)		READING(AV)		ANT	C.Factor	RESULT(PK)		RESULT(AV)		LIMIT	LIMIT		MARGIN(PK)		MARGIN(AV)	
		HOR. VER.		HOR. VER.		TYPE	[dBuV]	HOR. VER.		HOR. VER.		[PK]	[AV]		HOR. VER.		HOR. VER.	
		[dBuV]		[dBuV]				[dBuV/m]		[dBuV/m]		[dBuV/m]	[dBuV/m]		[dB]		[dB]	[dB]
	1070					HO						74.0	54.0		>27.0		>10.0	
	1177					HO						74.0	54.0					
	1284					HO						74.0	54.0					
	1391					HO						74.0	54.0					
	1498					HO						74.0	54.0					
	1605					HO						74.0	54.0					
CH.	FREQ	READING(QP)				ANT	C.Factor	RESULT(QP)				LIMIT			MARGIN(QP)			
	[MHz]	HOR.	VER.			TYPE	[dBuV]	HOR.	VER.			[QP]			HOR.	VER.		
		[dBuV]						[dBuV/m]				[dBuV/m]			[dB]			
4	113	26.3	26.5			BC	-9.5	16.8	17.0			43.5			26.7	26.5		
	226					BC						46.0			> 15.0			
	339					LO						46.0						
	452					LO						46.0						
	565					LO						46.0						
	678					LO						46.0						
	791					LO						46.0						
	904					LO						46.0						
		READING(PK)		READING(AV)		ANT	C.Factor	RESULT(PK)		RESULT(AV)		LIMIT	LIMIT		MARGIN(PK)		MARGIN(AV)	
		HOR. VER.		HOR. VER.		TYPE	[dBuV]	HOR. VER.		HOR. VER.		[PK]	[AV]		HOR. VER.		HOR. VER.	
		[dBuV]		[dBuV]				[dBuV/m]		[dBuV/m]		[dBuV/m]	[dBuV/m]		[dB]		[dB]	[dB]
	1017					HO						74.0	54.0		>27.0		>10.0	
	1130					HO						74.0	54.0					
	1243					HO						74.0	54.0					
	1356					HO						74.0	54.0					
	1469					HO						74.0	54.0					
	1582					HO						74.0	54.0					

DATA OF RADIATION TEST

UL Apex Co., Ltd.
Yokowa EMC No. 1Open Test Site

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL No. : SD-V594SU
POWER : AC120V/60Hz
DESCRIPTION : TV Reception

REPORT No. : 26EE0195-YW-1
REGULATION : FCC PART15 B
TEST DISTANCE : 3m
ATTENUATION : 101-847MHz 6dB
1030-1694MHz 0dB
DATE : December 20, 2005
TEMP./HUMID. : 21deg.C / 39%
ENGINEER : Tsubasa Takayama

*C.Factor[dB]=ANT Factor + Cable Loss - Amp Gain

For the measurement above 1GHz, measurement of AV detector is performed only when the result of PK detector exceed the limit of AV.

CH.	FREQ [MHz]	READING(QP) HOR. VER. [dBuV]			ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. VER. [dBuV/m]			LIMIT [QP] [dBuV/m]		MARGIN(QP) HOR. VER. [dB] [dB]					
VHF																	
5	123	24.0	28.4			BC	-8.2	15.8	20.2			43.5		27.7	23.3		
	246					BC						46.0		> 15.0			
	369				LO	46.0											
	492				LO	46.0											
	615				LO	46.0											
	738				LO	46.0											
	861				LO	46.0											
	984				LO	54.0											
		READING(PK) HOR. VER. [dBuV]		READING(AV) HOR. VER. [dBuV]		ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. VER. [dBuV/m]		RESULT(AV) HOR. VER. [dBuV/m]		LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. VER. [dB] [dB]		MARGIN(AV) HOR. VER. [dB] [dB]	
	1107					HO						74.0	54.0	>27.0		>10.0	
	1230				HO	74.0				54.0							
	1353				HO	74.0				54.0							
	1476				HO	74.0				54.0							
	1599				HO	74.0				54.0							
CH.	FREQ [MHz]	READING(QP) HOR. VER. [dBuV]			ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. VER. [dBuV/m]			LIMIT [QP] [dBuV/m]		MARGIN(QP) HOR. VER. [dB] [dB]					
6	129	23.3	23.7			BC	-7.8	15.5	15.9			43.5		28.0	27.6		
	258					BC						46.0		> 15.0			
	387				LO	46.0											
	516				LO	46.0											
	645				LO	46.0											
	774				LO	46.0											
	903				LO	46.0											
		READING(PK) HOR. VER. [dBuV]		READING(AV) HOR. VER. [dBuV]		ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. VER. [dBuV/m]		RESULT(AV) HOR. VER. [dBuV/m]		LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. VER. [dB] [dB]		MARGIN(AV) HOR. VER. [dB] [dB]	
	1032					HO						74.0	54.0	>27.0		>10.0	
	1161				HO	74.0				54.0							
	1290				HO	74.0				54.0							
	1419				HO	74.0				54.0							
	1548				HO	74.0				54.0							
	1677				HO	74.0				54.0							
CH.	FREQ [MHz]	READING(QP) HOR. VER. [dBuV]			ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. VER. [dBuV/m]			LIMIT [QP] [dBuV/m]		MARGIN(QP) HOR. VER. [dB] [dB]					
7	221	22.6	22.3			BC	-3.9	18.7	18.4			46.0		27.3	27.6		
	442					LO						46.0		> 15.0			
	663				LO	46.0											
	884				LO	46.0											
		READING(PK) HOR. VER. [dBuV]		READING(AV) HOR. VER. [dBuV]		ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. VER. [dBuV/m]		RESULT(AV) HOR. VER. [dBuV/m]		LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. VER. [dB] [dB]		MARGIN(AV) HOR. VER. [dB] [dB]	
	1105					HO						74.0	54.0	>27.0		>10.0	
	1326				HO	74.0				54.0							
	1547				HO	74.0				54.0							
CH.	FREQ [MHz]	READING(QP) HOR. VER. [dBuV]			ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. VER. [dBuV/m]			LIMIT [QP] [dBuV/m]		MARGIN(QP) HOR. VER. [dB] [dB]					
8	227	21.6	22.0			BC	-3.7	17.9	18.3			46.0		28.1	27.7		
	454					LO						46.0		>15.0			
	681				LO	46.0											
	908				LO	46.0											
		READING(PK) HOR. VER. [dBuV]		READING(AV) HOR. VER. [dBuV]		ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. VER. [dBuV/m]		RESULT(AV) HOR. VER. [dBuV/m]		LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. VER. [dB] [dB]		MARGIN(AV) HOR. VER. [dB] [dB]	
	1135					HO						74.0	54.0	>27.0		>10.0	
	1362				HO	74.0				54.0							
	1589				HO	74.0				54.0							

DATA OF RADIATION TEST

UL Apex Co., Ltd.
Yokowa EMC No. 10Open Test Site

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL No. : SD-V594SU
POWER : AC120V/60Hz
DESCRIPTION : TV Reception

REPORT No. : 26EE0195-YW-1
REGULATION : FCC PART15 B
TEST DISTANCE : 3m
ATTENUATION : 101-847MHz 6dB
1030-1694MHz 0dB
DATE : December 20, 2005
TEMP./HUMID. : 21deg.C / 39%
ENGINEER : Tsubasa Takayama

*C.Factor[dB]=ANT Factor + Cable Loss - Amp Gain

For the measurement above 1GHz, measurement of AV detector is performed only when the result of PK detector exceed the limit of AV.

CH.	FREQ [MHz]	READING(QP) HOR. VER. [dBuV]		ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. VER. [dBuV/m]		LIMIT [QP] [dBuV/m]		MARGIN(QP) HOR. VER. [dB]	
VHF											
9	233	22.8	22.3			BC	-3.7	19.1	18.6		
	466					LO				46.0	
	699					LO				46.0	
	932					LO				46.0	
		READING(PK) HOR. VER. [dBuV]	READING(AV) HOR. VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. VER. [dBuV/m]	RESULT(AV) HOR. VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. VER. [dB]	MARGIN(AV) HOR. VER. [dB]
	1165			HO				74.0	54.0	>27.0	>10.0
	1398			HO				74.0	54.0		
	1631			HO				74.0	54.0		
		READING(QP) HOR. VER. [dBuV]		ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. VER. [dBuV/m]		LIMIT [QP] [dBuV/m]		MARGIN(QP) HOR. VER. [dB]	
10	239	22.5	22.4			BC	-3.6	18.9	18.8		
	478					LO				46.0	
	717					LO				46.0	
	956					LO				46.0	
		READING(PK) HOR. VER. [dBuV]	READING(AV) HOR. VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. VER. [dBuV/m]	RESULT(AV) HOR. VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. VER. [dB]	MARGIN(AV) HOR. VER. [dB]
	1195			HO				74.0	54.0	>27.0	>10.0
	1434			HO				74.0	54.0		
	1673			HO				74.0	54.0		
		READING(QP) HOR. VER. [dBuV]		ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. VER. [dBuV/m]		LIMIT [QP] [dBuV/m]		MARGIN(QP) HOR. VER. [dB]	
11	245	21.8	22.6			BC	-3.5	18.3	19.1		
	490					LO				46.0	
	735					LO				46.0	
	980					LO				54.0	
		READING(PK) HOR. VER. [dBuV]	READING(AV) HOR. VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. VER. [dBuV/m]	RESULT(AV) HOR. VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. VER. [dB]	MARGIN(AV) HOR. VER. [dB]
	1225			HO				74.0	54.0	>27.0	>10.0
	1470			HO				74.0	54.0		
		READING(QP) HOR. VER. [dBuV]		ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. VER. [dBuV/m]		LIMIT [QP] [dBuV/m]		MARGIN(QP) HOR. VER. [dB]	
12	251	23.5	23.7			BC	-3.3	20.2	20.4		
	502					LO				46.0	
	753					LO				46.0	
		READING(PK) HOR. VER. [dBuV]	READING(AV) HOR. VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. VER. [dBuV/m]	RESULT(AV) HOR. VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. VER. [dB]	MARGIN(AV) HOR. VER. [dB]
	1004			HO				74.0	54.0	>27.0	>10.0
	1255			HO				74.0	54.0		
	1506			HO				74.0	54.0		
		READING(QP) HOR. VER. [dBuV]		ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. VER. [dBuV/m]		LIMIT [QP] [dBuV/m]		MARGIN(QP) HOR. VER. [dB]	
13	257	24.4	24.3			BC	-2.9	21.5	21.4		
	514					LO				46.0	
	771					LO				46.0	
		READING(PK) HOR. VER. [dBuV]	READING(AV) HOR. VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. VER. [dBuV/m]	RESULT(AV) HOR. VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. VER. [dB]	MARGIN(AV) HOR. VER. [dB]
	1028			HO				74.0	54.0	>27.0	>10.0
	1285			HO				74.0	54.0		
	1542			HO				74.0	54.0		
		READING(QP) HOR. VER. [dBuV]		ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. VER. [dBuV/m]		LIMIT [QP] [dBuV/m]		MARGIN(QP) HOR. VER. [dB]	

DATA OF RADIATION TEST

UL Apex Co., Ltd.
Yokowa EMC No. 10Open Test Site

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL No. : SD-V594SU
POWER : AC120V/60Hz
DESCRIPTION : TV Reception

REPORT No. : 26EE0195-YW-1
REGULATION : FCC PART15 B
TEST DISTANCE : 3m
ATTENUATION : 101-847MHz 6dB
1030-1694MHz 0dB
DATE : December 20, 2005
TEMP/HUMID. : 21deg.C / 39%
ENGINEER : Tsubasa Takayama

*C.Factor[dB]=ANT Factor + Cable Loss - Amp Gain

For the measurement above 1GHz, measurement of AV detector is performed only when the result of PK detector exceed the limit of AV.

CH.	FREQ [MHz]	READING(QP) HOR. VER. [dBuV]		ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. VER. [dBuV/m]		LIMIT [QP] [dBuV/m]		MARGIN(QP) HOR. VER. [dB]	
UHF											
14	517	29.3 35.1		LO	0.7	30.0 35.8		46.0		16.0 10.2	
		READING(PK) HOR. VER. [dBuV]	READING(AV) HOR. VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. VER. [dBuV/m]	RESULT(AV) HOR. VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. VER. [dB]	MARGIN(AV) HOR. VER. [dB]
	1034 1551			HO HO				74.0 74.0	54.0 54.0	>27.0	>10.0
CH.	FREQ [MHz]	READING(QP) HOR. VER. [dBuV]		ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. VER. [dBuV/m]		LIMIT [QP] [dBuV/m]		MARGIN(QP) HOR. VER. [dB]	
19	547	26.3 33.6		LO	1.3	27.6 34.9		46.0		18.4 11.1	
		READING(PK) HOR. VER. [dBuV]	READING(AV) HOR. VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. VER. [dBuV/m]	RESULT(AV) HOR. VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. VER. [dB]	MARGIN(AV) HOR. VER. [dB]
	1094 1641			HO HO				74.0 74.0	54.0 54.0	>27.0	>10.0
CH.	FREQ [MHz]	READING(QP) HOR. VER. [dBuV]		ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. VER. [dBuV/m]		LIMIT [QP] [dBuV/m]		MARGIN(QP) HOR. VER. [dB]	
28	601	24.5 25.6		LO	2.4	26.9 28.0		46.0	-	19.1 18.0	
		READING(PK) HOR. VER. [dBuV]	READING(AV) HOR. VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. VER. [dBuV/m]	RESULT(AV) HOR. VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. VER. [dB]	MARGIN(AV) HOR. VER. [dB]
	1202			HO				74.0	54.0	>27.0	>10.0
CH.	FREQ [MHz]	READING(QP) HOR. VER. [dBuV]		ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. VER. [dBuV/m]		LIMIT [QP] [dBuV/m]		MARGIN(QP) HOR. VER. [dB]	
36	649	23.2 27.1		LO	3.3	26.5 30.4		46.0	-	19.5 15.6	
		READING(PK) HOR. VER. [dBuV]	READING(AV) HOR. VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. VER. [dBuV/m]	RESULT(AV) HOR. VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. VER. [dB]	MARGIN(AV) HOR. VER. [dB]
	1298			HO				74.0	54.0	>27.0	>10.0
CH.	FREQ [MHz]	READING(QP) HOR. VER. [dBuV]		ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. VER. [dBuV/m]		LIMIT [QP] [dBuV/m]		MARGIN(QP) HOR. VER. [dB]	
44	697	23.6 26.5		LO	4.4	28.0 30.9		46.0	-	18.0 15.1	
		READING(PK) HOR. VER. [dBuV]	READING(AV) HOR. VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. VER. [dBuV/m]	RESULT(AV) HOR. VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. VER. [dB]	MARGIN(AV) HOR. VER. [dB]
	1394			HO				74.0	54.0	>27.0	>10.0
CH.	FREQ [MHz]	READING(QP) HOR. VER. [dBuV]		ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. VER. [dBuV/m]		LIMIT [QP] [dBuV/m]		MARGIN(QP) HOR. VER. [dB]	
53	751	25.3 29.3		LO	5.7	31.0 35.0		46.0	-	15.0 11.0	
		READING(PK) HOR. VER. [dBuV]	READING(AV) HOR. VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. VER. [dBuV/m]	RESULT(AV) HOR. VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. VER. [dB]	MARGIN(AV) HOR. VER. [dB]
	1502			HO				74.0	54.0	>27.0	>10.0
CH.	FREQ [MHz]	READING(QP) HOR. VER. [dBuV]		ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. VER. [dBuV/m]		LIMIT [QP] [dBuV/m]		MARGIN(QP) HOR. VER. [dB]	
61	799	23.1 22.5		LO	6.8	29.9 29.3		46.0	-	16.1 16.7	
		READING(PK) HOR. VER. [dBuV]	READING(AV) HOR. VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. VER. [dBuV/m]	RESULT(AV) HOR. VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. VER. [dB]	MARGIN(AV) HOR. VER. [dB]
	1598			HO				74.0	54.0	>27.0	>10.0
CH.	FREQ [MHz]	READING(QP) HOR. VER. [dBuV]		ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. VER. [dBuV/m]		LIMIT [QP] [dBuV/m]		MARGIN(QP) HOR. VER. [dB]	
69	847	24.3 25.9		LO	7.7	32.0 33.6		46.0	-	14.0 12.4	
		READING(PK) HOR. VER. [dBuV]	READING(AV) HOR. VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. VER. [dBuV/m]	RESULT(AV) HOR. VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. VER. [dB]	MARGIN(AV) HOR. VER. [dB]
	1694			HO				74.0	54.0	>27.0	>10.0

DATA OF RADIATION TEST

UL Apex Co., Ltd.
Yokowa EMC No. 10Open Test Site

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL No. : SD-V594SU
POWER : AC120V/60Hz
DESCRIPTION : TV Reception

REPORT No. : 26EE0195-YW-1
REGULATION : FCC PART15 B
TEST DISTANCE : 3m
ATTENUATION : 101-847MHz 6dB
1030-1694MHz 0dB
DATE : December 20, 2005
TEMP./HUMID. : 21deg.C / 39%
ENGINEER : Tsubasa Takayama

*C.Factor[dB]=ANT Factor + Cable Loss - Amp Gain

For the measurement above 1GHz, measurement of AV detector is performed only when the result of PK detector exceed the limit of AV.

CH.	FREQ	READING(QP)				ANT	C.Factor	RESULT(QP)				LIMIT		MARGIN(QP)			
	[MHz]	HOR.	VER.			TYPE	[dBuV]	HOR.	VER.			[QP]		HOR.	VER.		
		[dBuV]						[dBuV/m]				[dBuV/m]		[dB]		[dB]	
CATV																	
1	119	22.9	26.9			BC	-8.6	14.3	18.3			43.5		29.2	25.2		
	238					BC						46.0		>15.0			
	357					LO						46.0					
	476					LO						46.0					
	595					LO						46.0					
	714					LO						46.0					
	833					LO						46.0					
	952	LO	46.0														
		READING(PK)		READING(AV)		ANT	C.Factor	RESULT(PK)		RESULT(AV)		LIMIT	LIMIT	MARGIN(PK)		MARGIN(AV)	
		HOR. VER.		HOR. VER.		TYPE		HOR. VER.		HOR. VER.		[PK]	[AV]	HOR. VER.		HOR. VER.	
	[dBuV]		[dBuV]			[dBuV]	[dBuV/m]		[dBuV/m]		[dBuV/m]	[dBuV/m]	[dB]		[dB]		
	1071					HO						74.0	54.0	>27.0	>10.0		
	1190					HO						74.0	54.0				
	1309					HO						74.0	54.0				
	1428					HO						74.0	54.0				
	1547					HO						74.0	54.0				
	1666					HO						74.0	54.0				
CH.	FREQ	READING(QP)				ANT	C.Factor	RESULT(QP)				LIMIT		MARGIN(QP)			
	[MHz]	[dBuV]				TYPE	[dBuV]	[dBuV/m]				[dBuV/m]		[dB]		[dB]	
95	137	22.4	23.7			BC	-7.1	15.3	16.6			43.5		28.2	26.9		
	274					BC						46.0		>15.0			
	411					LO						46.0					
	548					LO						46.0					
	685					LO						46.0					
	822					LO						46.0					
	959					LO						46.0					
		READING(PK)		READING(AV)		ANT	C.Factor	RESULT(PK)		RESULT(AV)		LIMIT	LIMIT	MARGIN(PK)		MARGIN(AV)	
		HOR. VER.		HOR. VER.		TYPE		HOR. VER.		HOR. VER.		[PK]	[AV]	HOR. VER.		HOR. VER.	
		[dBuV]		[dBuV]			[dBuV]	[dBuV/m]		[dBuV/m]		[dBuV/m]	[dBuV/m]	[dB]		[dB]	
	1096					HO						74.0	54.0	>27.0	>10.0		
	1233					HO						74.0	54.0				
	1370					HO						74.0	54.0				
	1507					HO						74.0	54.0				
	1644					HO						74.0	54.0				
						HO						74.0	54.0				
CH.	FREQ	READING(QP)				ANT	C.Factor	RESULT(QP)				LIMIT		MARGIN(QP)			
	[MHz]	[dBuV]				TYPE	[dBuV]	[dBuV/m]				[dBuV/m]		[dB]		[dB]	
97	149	23.1	24.1			BC	-6.4	16.7	17.7			43.5		26.8	25.8		
	298					BC						46.0		>15.0			
	447					LO						46.0					
	596					LO						46.0					
	745					LO						46.0					
	894					LO						46.0					
		READING(PK)		READING(AV)		ANT	C.Factor	RESULT(PK)		RESULT(AV)		LIMIT	LIMIT	MARGIN(PK)		MARGIN(AV)	
		HOR. VER.		HOR. VER.		TYPE		HOR. VER.		HOR. VER.		[PK]	[AV]	HOR. VER.		HOR. VER.	
		[dBuV]		[dBuV]			[dBuV]	[dBuV/m]		[dBuV/m]		[dBuV/m]	[dBuV/m]	[dB]		[dB]	
		1043					HO						74.0	54.0	>27.0	>10.0	
1192		HO					74.0						54.0				
1341		HO					74.0						54.0				
1490		HO					74.0						54.0				
1639		HO					74.0						54.0				
		HO					74.0						54.0				
CH.	FREQ	READING(QP)				ANT	C.Factor	RESULT(QP)				LIMIT		MARGIN(QP)			
	[MHz]	[dBuV]				TYPE	[dBuV]	[dBuV/m]				[dBuV/m]		[dB]		[dB]	
99	161	23.3	23.7			BC	-5.9	17.4	17.8			43.5		26.1	25.7		
	322					LO						46.0		>15.0			
	483					LO						46.0					
	644					LO						46.0					
	805					LO						46.0					
	966					LO						46.0					
		READING(PK)		READING(AV)		ANT	C.Factor	RESULT(PK)		RESULT(AV)		LIMIT	LIMIT	MARGIN(PK)		MARGIN(AV)	
		HOR. VER.		HOR. VER.		TYPE		HOR. VER.		HOR. VER.		[PK]	[AV]	HOR. VER.		HOR. VER.	
		[dBuV]		[dBuV]			[dBuV]	[dBuV/m]		[dBuV/m]		[dBuV/m]	[dBuV/m]	[dB]		[dB]	
		1127					HO						74.0	54.0	>27.0	>10.0	
1288		HO					74.0						54.0				
1449		HO					74.0						54.0				
1610		HO					74.0						54.0				

DATA OF RADIATION TEST

UL Apex Co., Ltd.

Yokowa EMC No. 10Open Test Site

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL No. : SD-V594SU
POWER : AC120V/60Hz
DESCRIPTION : TV Reception

REPORT No. : 26EE0195-YW-1
REGULATION : FCC PART15 B
TEST DISTANCE : 3m
ATTENUATION : 101-847MHz 6dB
1030-1694MHz 0dB
DATE : December 20, 2005
TEMP./HUMID. : 21deg.C / 39%
ENGINEER : Tsubasa Takayama

*C.Factor[dB]=ANT Factor + Cable Loss - Amp Gain

For the measurement above 1GHz, measurement of AV detector is performed only when the result of PK detector exceed the limit of AV.

CH.	FREQ	READING(QP)				ANT	C.Factor	RESULT(QP)				LIMIT	MARGIN(QP)				
	[MHz]	HOR.	VER.			TYPE	[dBuV]	HOR.	VER.			[QP]	HOR.	VER.			
		[dBuV]						[dBuV/m]				[dBuV/m]		[dB]	[dB]		
CATV																	
14	167	23.1	22.9			BC	-5.4	17.7	17.5			43.5		25.8	26.0		
	334					LO						46.0		>15.0			
	501					LO	46.0										
	668					LO	46.0										
	835					LO	46.0										
		READING(PK)		READING(AV)		ANT	C.Factor	RESULT(PK)		RESULT(AV)		LIMIT	LIMIT	MARGIN(PK)		MARGIN(AV)	
		[dBuV]		[dBuV]		TYPE	[dBuV]	[dBuV/m]		[dBuV/m]		[PK]	[AV]	[dB]		[dB]	
	1002					HO						74.0	54.0	>27.0		>10.0	
	1169					HO	74.0					54.0					
	1336					HO	74.0					54.0					
	1503					HO	74.0					54.0					
	1670					HO	74.0					54.0					
CH.	FREQ	READING(QP)				ANT	C.Factor	RESULT(QP)				LIMIT	MARGIN(QP)				
	[MHz]	[dBuV]				TYPE	[dBuV]	[dBuV/m]				[QP]	[dB]		[dB]		
18	191	23.4	22.8			BC	-4.2	19.2	18.6			43.5		24.3	24.9		
	382					LO						46.0		>15.0			
	573					LO	46.0										
	764					LO	46.0										
	955					LO	46.0										
		READING(PK)		READING(AV)		ANT	C.Factor	RESULT(PK)		RESULT(AV)		LIMIT	LIMIT	MARGIN(PK)		MARGIN(AV)	
		[dBuV]		[dBuV]		TYPE	[dBuV]	[dBuV/m]		[dBuV/m]		[PK]	[AV]	[dB]		[dB]	
	1146					HO						74.0	54.0	>27.0		>10.0	
	1337					HO	74.0					54.0					
	1528					HO	74.0					54.0					
CH.	FREQ	READING(QP)				ANT	C.Factor	RESULT(QP)				LIMIT	MARGIN(QP)				
	[MHz]	[dBuV]				TYPE	[dBuV]	[dBuV/m]				[QP]	[dB]		[dB]		
22	215	23.8	23.2			BC	-4.0	19.8	19.2			43.5		23.7	24.3		
	430					LO						46.0		>15.0			
	645					LO	46.0										
	860					LO	46.0										
		READING(PK)		READING(AV)		ANT	C.Factor	RESULT(PK)		RESULT(AV)		LIMIT	LIMIT	MARGIN(PK)		MARGIN(AV)	
		[dBuV]		[dBuV]		TYPE	[dBuV]	[dBuV/m]		[dBuV/m]		[PK]	[AV]	[dB]		[dB]	
	1075					HO						74.0	54.0	>27.0		>10.0	
	1290					HO	74.0					54.0					
	1505					HO	74.0					54.0					
CH.	FREQ	READING(QP)				ANT	C.Factor	RESULT(QP)				LIMIT	MARGIN(QP)				
	[MHz]	[dBuV]				TYPE	[dBuV]	[dBuV/m]				[QP]	[dB]		[dB]		
23	263	21.6	22.1			BC	-3.4	18.2	18.7			46.0	46.0	27.8	27.3		
	526					LO						46.0	46.0				
	789					LO	46.0										
		READING(PK)		READING(AV)		ANT	C.Factor	RESULT(PK)		RESULT(AV)		LIMIT	LIMIT	MARGIN(PK)		MARGIN(AV)	
		[dBuV]		[dBuV]		TYPE	[dBuV]	[dBuV/m]		[dBuV/m]		[PK]	[AV]	[dB]		[dB]	
	1052					HO						74.0	54.0	>27.0		>10.0	
	1315					HO	74.0					54.0					
1578	HO					74.0	54.0										
CH.	FREQ	READING(QP)				ANT	C.Factor	RESULT(QP)				LIMIT	MARGIN(QP)				
	[MHz]	[dBuV]				TYPE	[dBuV]	[dBuV/m]				[QP]	[dB]		[dB]		
29	299	22.1	22.4			BC	0.7	22.8	23.1			46.0	46.0	23.2	22.9		
	598					LO						46.0	46.0	>15.0			
	897					LO	46.0										
		READING(PK)		READING(AV)		ANT	C.Factor	RESULT(PK)		RESULT(AV)		LIMIT	LIMIT	MARGIN(PK)		MARGIN(AV)	
		[dBuV]		[dBuV]		TYPE	[dBuV]	[dBuV/m]		[dBuV/m]		[PK]	[AV]	[dB]		[dB]	
	1196					HO						74.0	54.0	>27.0		>10.0	
1495	HO					74.0	54.0										

DATA OF RADIATION TEST

UL Apex Co., Ltd.
Yokowa EMC No. 1Open Test Site

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL No. : SD-V594SU
POWER : AC120V/60Hz
DESCRIPTION : TV Reception

REPORT No. : 26EE0195-YW-1
REGULATION : FCC PART15 B
TEST DISTANCE : 3m
ATTENUATION : 101-847MHz 6dB
1030-1694MHz 0dB
DATE : December 20, 2005
TEMP./HUMID. : 21deg.C / 39%
ENGINEER : Tsubasa Takayama

*C.Factor[dB]=ANT Factor + Cable Loss - Amp Gain

For the measurement above 1GHz, measurement of AV detector is performed only when the result of PK detector exceed the limit of AV.

CH.	FREQ	READING(QP)			ANT	C.Factor	RESULT(QP)			LIMIT		MARGIN(QP)		
	[MHz]	HOR.	VER.		TYPE	[dBuV]	HOR.	VER.		[QP]		HOR.	VER.	
		[dBuV]					[dBuV/m]			[dBuV/m]		[dB]		
CATV														
36	341	28.5	23.6		LO	-2.7	25.8	20.9		46.0	46.0	20.2	25.1	
	682	-	-		LO					46.0	46.0	>15.0		
		READING(PK)	READING(AV)	ANT	C.Factor	RESULT(PK)	RESULT(AV)	LIMIT	LIMIT	MARGIN(PK)	MARGIN(AV)			
		HOR. VER.	HOR. VER.	TYPE		HOR. VER.	HOR. VER.	[PK]	[AV]	HOR. VER.	HOR. VER.			
		[dBuV]	[dBuV]		[dBuV]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]	[dB]	[dB]	
	1023			HO					74.0	54.0	>27.0		>10.0	
	1364			HO					74.0	54.0				
CH.	FREQ	READING(QP)			ANT	C.Factor	RESULT(QP)			LIMIT		MARGIN(QP)		
	[MHz]	HOR. VER.			TYPE	[dBuV]	HOR. VER.			[QP]		HOR. VER.		
		[dBuV]					[dBuV/m]			[dBuV/m]		[dB]		
37	347	22.1	21.9		LO	-2.6	19.5	19.3		46.0	46.0	26.5	26.7	
	694				LO					46.0	46.0	>15.0		
		READING(PK)	READING(AV)	ANT	C.Factor	RESULT(PK)	RESULT(AV)	LIMIT	LIMIT	MARGIN(PK)	MARGIN(AV)			
		HOR. VER.	HOR. VER.	TYPE		HOR. VER.	HOR. VER.	[PK]	[AV]	HOR. VER.	HOR. VER.			
		[dBuV]	[dBuV]		[dBuV]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]	[dB]	[dB]	
	1041			HO					74.0	54.0	>27.0		>10.0	
	1388			HO					74.0	54.0				
CH.	FREQ	READING(QP)			ANT	C.Factor	RESULT(QP)			LIMIT		MARGIN(QP)		
	[MHz]	HOR. VER.			TYPE	[dBuV]	HOR. VER.			[QP]		HOR. VER.		
		[dBuV]					[dBuV/m]			[dBuV/m]		[dB]		
65	515	26.3	26.5		LO	0.7	27.0	27.2		46.0	46.0	19.0	18.8	
		READING(PK)	READING(AV)	ANT	C.Factor	RESULT(PK)	RESULT(AV)	LIMIT	LIMIT	MARGIN(PK)	MARGIN(AV)			
		HOR. VER.	HOR. VER.	TYPE		HOR. VER.	HOR. VER.	[PK]	[AV]	HOR. VER.	HOR. VER.			
		[dBuV]	[dBuV]		[dBuV]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]	[dB]	[dB]	
	1030			HO				74.0	54.0	>27.0		>10.0		
	1545			HO				74.0	54.0					
CH.	FREQ	READING(QP)			ANT	C.Factor	RESULT(QP)			LIMIT		MARGIN(QP)		
	[MHz]	HOR. VER.			TYPE	[dBuV]	HOR. VER.			[QP]		HOR. VER.		
		[dBuV]					[dBuV/m]			[dBuV/m]		[dB]		
94	689	21.9	22.3		LO	4.3	26.2	26.6		46.0	46.0	19.8	19.4	
		READING(PK)	READING(AV)	ANT	C.Factor	RESULT(PK)	RESULT(AV)	LIMIT	LIMIT	MARGIN(PK)	MARGIN(AV)			
		HOR. VER.	HOR. VER.	TYPE		HOR. VER.	HOR. VER.	[PK]	[AV]	HOR. VER.	HOR. VER.			
		[dBuV]	[dBuV]		[dBuV]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]	[dB]	[dB]	
	1378			HO				74.0	54.0	>27.0		>10.0		
CH.	FREQ	READING(QP)			ANT	C.Factor	RESULT(QP)			LIMIT		MARGIN(QP)		
	[MHz]	HOR. VER.			TYPE	[dBuV]	HOR. VER.			[QP]		HOR. VER.		
		[dBuV]					[dBuV/m]			[dBuV/m]		[dB]		
100	695	22.0	21.8		LO	4.3	26.3	26.1		46.0	46.0	19.7	19.9	
		READING(PK)	READING(AV)	ANT	C.Factor	RESULT(PK)	RESULT(AV)	LIMIT	LIMIT	MARGIN(PK)	MARGIN(AV)			
		HOR. VER.	HOR. VER.	TYPE		HOR. VER.	HOR. VER.	[PK]	[AV]	HOR. VER.	HOR. VER.			
		[dBuV]	[dBuV]		[dBuV]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]	[dB]	[dB]	
	1390			HO				74.0	54.0	>27.0		>10.0		
CH.	FREQ	READING(QP)			ANT	C.Factor	RESULT(QP)			LIMIT		MARGIN(QP)		
	[MHz]	HOR. VER.			TYPE	[dBuV]	HOR. VER.			[QP]		HOR. VER.		
		[dBuV]					[dBuV/m]			[dBuV/m]		[dB]		
113	773	22.1	21.9		LO	6.1	28.2	28.0		46.0	46.0	17.8	18.0	
		READING(PK)	READING(AV)	ANT	C.Factor	RESULT(PK)	RESULT(AV)	LIMIT	LIMIT	MARGIN(PK)	MARGIN(AV)			
		HOR. VER.	HOR. VER.	TYPE		HOR. VER.	HOR. VER.	[PK]	[AV]	HOR. VER.	HOR. VER.			
		[dBuV]	[dBuV]		[dBuV]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]	[dB]	[dB]	
	1546			HO				74.0	54.0	>27.0		>10.0		
CH.	FREQ	READING(QP)			ANT	C.Factor	RESULT(QP)			LIMIT		MARGIN(QP)		
	[MHz]	HOR. VER.			TYPE	[dBuV]	HOR. VER.			[QP]		HOR. VER.		
		[dBuV]					[dBuV/m]			[dBuV/m]		[dB]		
124	839	21.6	21.7		LO	7.6	29.2	29.3		46.0	46.0	16.8	16.7	
		READING(PK)	READING(AV)	ANT	C.Factor	RESULT(PK)	RESULT(AV)	LIMIT	LIMIT	MARGIN(PK)	MARGIN(AV)			
		HOR. VER.	HOR. VER.	TYPE		HOR. VER.	HOR. VER.	[PK]	[AV]	HOR. VER.	HOR. VER.			
		[dBuV]	[dBuV]		[dBuV]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]	[dB]	[dB]	
	1690			HO				74.0	54.0	>27.0		>10.0		

DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 26EE0195-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V594SU
Serial No. : -
Power : AC120V/60Hz
Mode : TV Reception + Rec
Remarks : 0dBmV
Date : 1/6/2005
Test Distance : 3 m
Temperature : 21 °C
Humidity : 39 %
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]		HOR [dB]	VER [dB]
1.	270.00	BB	43.3	32.1	18.4	29.6	4.0	6.0	42.1	30.9	46.0	3.9	15.1

CALCULATION: READING + ANT. FACTOR + CABLE LOSS - AMP. GAIN + ATTEN.

Expect for the above table : adequate margin data below the limits.
ANT TYPE:30-300MHz Biconical, 300-1000MHz Logperiodic

DATA OF RADIATION TEST

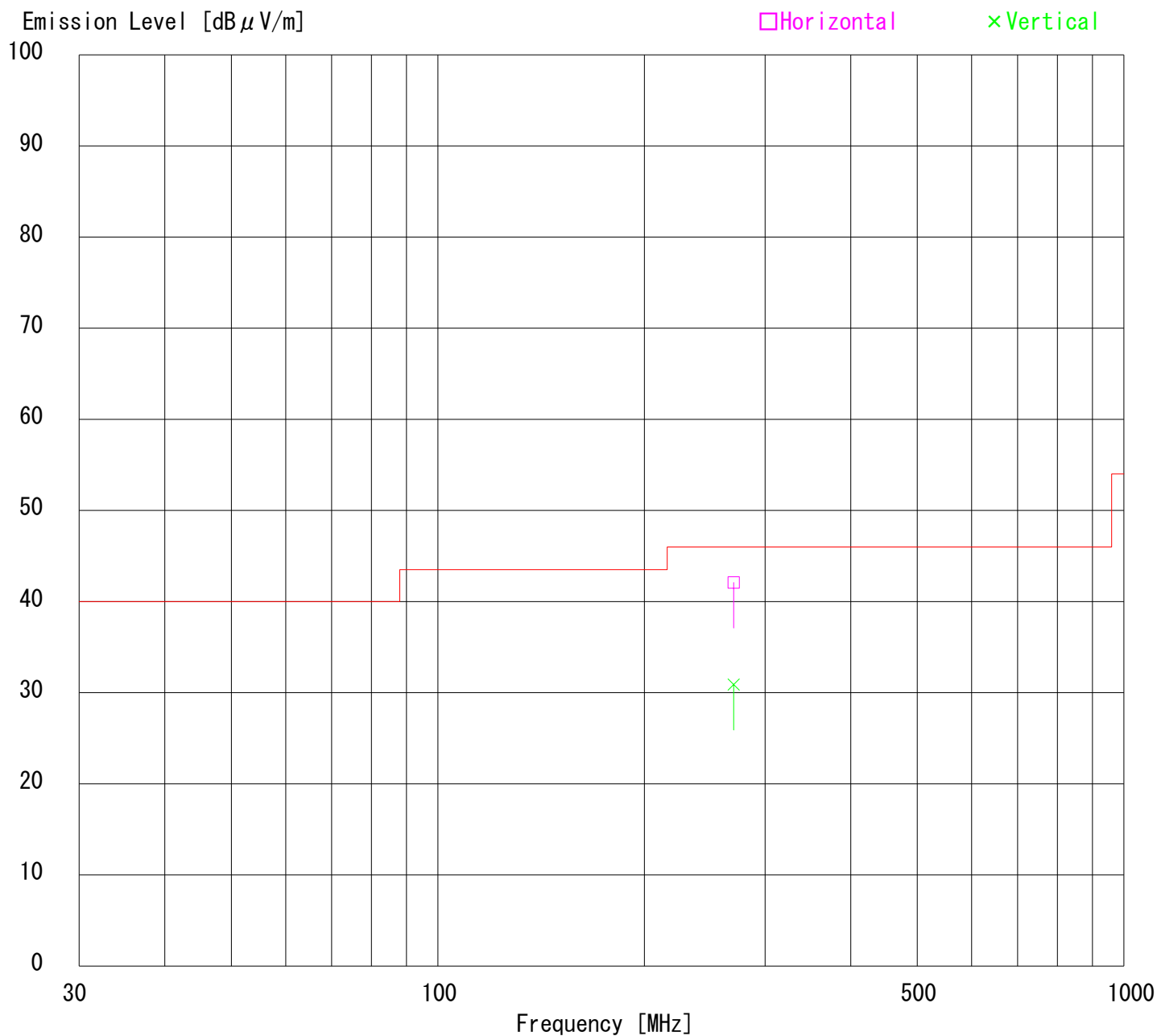
UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 26EE0195-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V594SU
Serial No. : -
Power : AC120V/60Hz
Mode : TV Reception + Rec
Remarks : 0dBmV
Date : 1/6/2005
Test Distance : 3 m
Temperature : 21 °C
Humidity : 39 %
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama



DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 26EE0195-YW-1

Applicant : Orion Electric Co., Ltd.
 Kind of Equipment : DVD/VCR
 Model No. : SD-V594SU
 Serial No. : -
 Power : AC120V/60Hz
 Mode : TV Reception + Rec
 Remarks : 25dBmV
 Date : 1/6/2005
 Test Distance : 3 m
 Temperature : 21 °C
 Humidity : 39 %
 Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]		HOR [dB]	VER [dB]
1.	135.00	BB	33.0	33.0	14.7	29.7	2.6	6.0	26.6	26.6	43.5	16.9	16.9
2.	202.48	BB	39.4	36.2	16.5	29.7	3.3	6.0	35.5	32.3	43.5	8.0	11.2
3.	219.38	BB	39.8	31.4	16.8	29.7	3.5	6.0	36.4	28.0	46.0	9.6	18.0
4.	270.00	BB	43.6	32.5	18.4	29.6	4.0	6.0	42.4	31.3	46.0	3.6	14.7
5.	405.01	BB	40.3	36.2	16.3	29.9	5.1	6.0	37.8	33.7	46.0	8.2	12.3
6.	675.02	BB	31.6	31.4	20.6	29.9	6.9	6.0	35.2	35.0	46.0	10.8	11.0
7.	810.00	BB	28.6	31.6	21.2	29.7	7.8	5.9	33.8	36.8	46.0	12.2	9.2
8.	945.02	BB	33.0	30.8	22.4	28.9	8.6	6.0	41.1	38.9	46.0	4.9	7.1

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.

Expect for the above table : adequate margin data below the limits.
 ANT TYPE:30-300MHz Biconical, 300-1000MHz Logperiodic

DATA OF RADIATION TEST

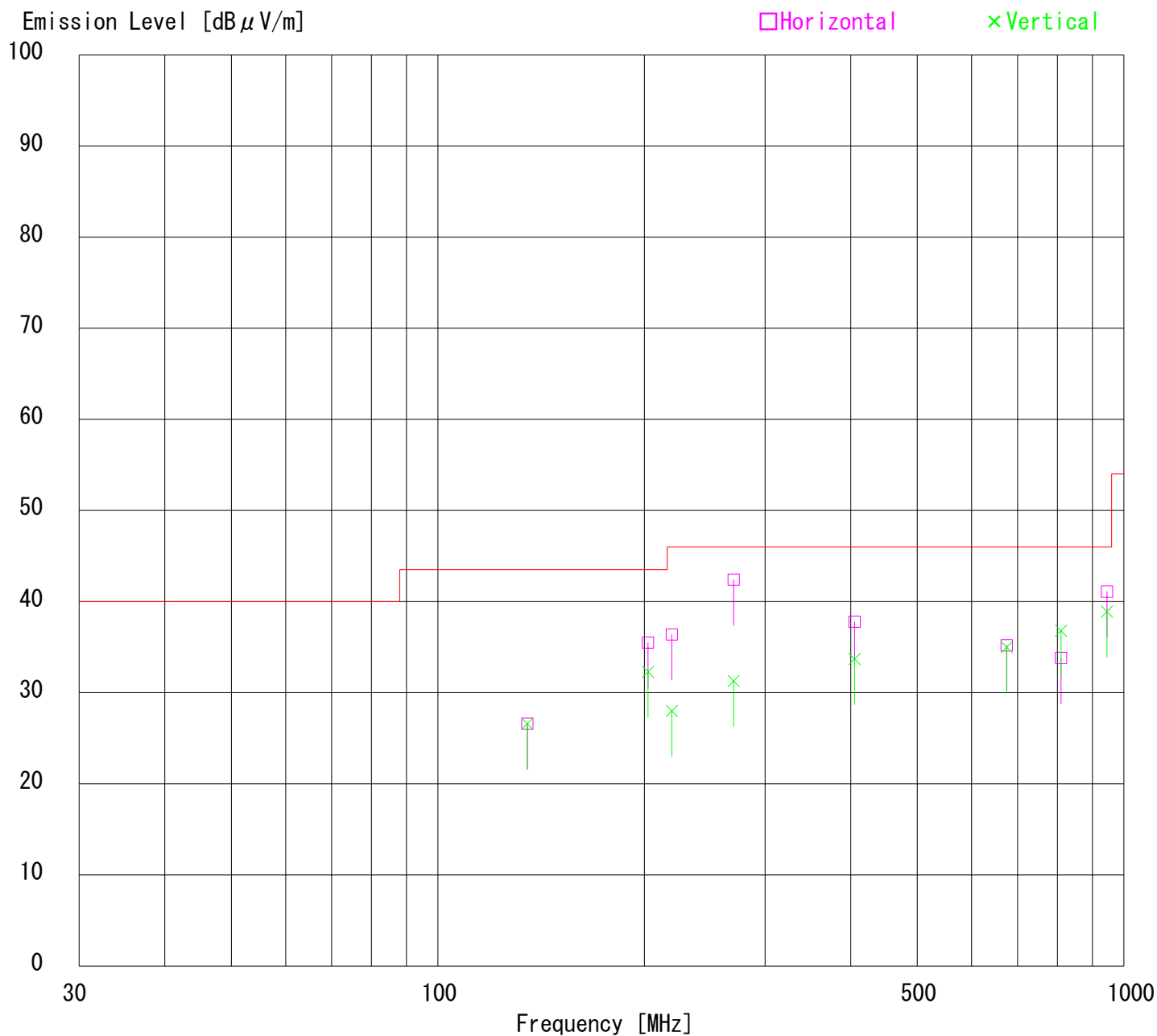
UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 26EE0195-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V594SU
Serial No. : -
Power : AC120V/60Hz
Mode : TV Reception + Rec
Remarks : 25dBmV
Date : 1/6/2005
Test Distance : 3 m
Temperature : 21 °C
Humidity : 39 %
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama



DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 26EE0195-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V594SU
Serial No. : -
Power : AC120V/60Hz
Mode : TV Reception + Rec
Remarks : 25dBmV
Date : 12/20/2005
Test Distance : 3 m
Temperature : 22 Engineer : Tsubasa Takayama
Humidity : 38 %
Regulation : FCC Part15B CLASS B(Peak Limit / Upper1GHz)

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR	AMP GAIN	CABLE LOSS	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]		HOR [dB]	VER [dB]
1.	1215.00	BB	50.6	56.3	24.1	40.2	2.0	0.0	36.5	42.2	74.0	37.5	31.8
2.	2025.00	BB	50.1	51.3	24.5	39.3	2.8	0.0	38.1	39.3	74.0	35.9	34.7

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.

Except for the above table: adequate margin data below the limits.

ANT.TYPE : 1-5GHz Horn

DATA OF RADIATION TEST

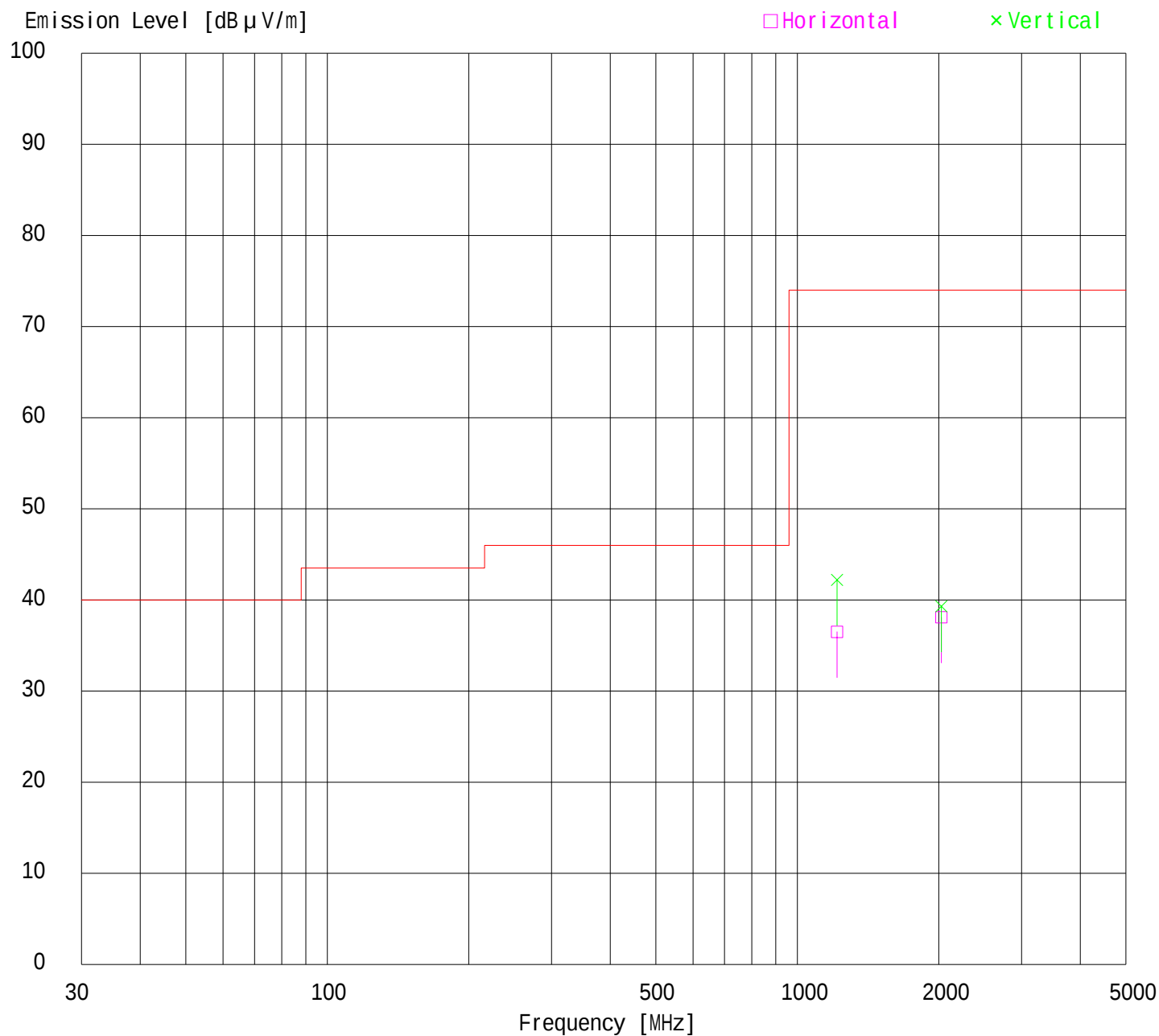
UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 26EE0195-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V594SU
Serial No. : -
Power : AC120V/60Hz
Mode : TV Reception + Rec
Remarks : 25dBmV
Date : 12/20/2005
Test Distance : 3 m
Temperature : 22
Humidity : 38 %
Regulation : FCC Part15B CLASS B(Peak Limit / Upper1GHz)

Engineer : Tsubasa Takayama



DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 26EE0195-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V594SU
Serial No. : -
Power : AC120V/60Hz
Mode : TV Reception + Rec
Remarks : 25dBm
Date : 12/20/2005
Test Distance : 3 m
Temperature : 22 Engineer : Tsubasa Takayama
Humidity : 38 %
Regulation : FCC Part15B CLASS B(Average Limit / Upper1GHz)

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
			HOR [dB μ V]	VER [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]	[dB μ V/m]	[dB]	HOR [dB]	VER [dB]
1.	1215.00	BB	43.4	52.2	24.1	40.2	2.0	0.0	29.3	38.1	54.0	24.7	15.9	
2.	2025.00	BB	40.5	44.8	24.5	39.3	2.8	0.0	28.5	32.8	54.0	25.5	21.2	

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.

Except for the above table: adequate margin data below the limits.

ANT.TYPE : 1-5GHz Horn

DATA OF RADIATION TEST

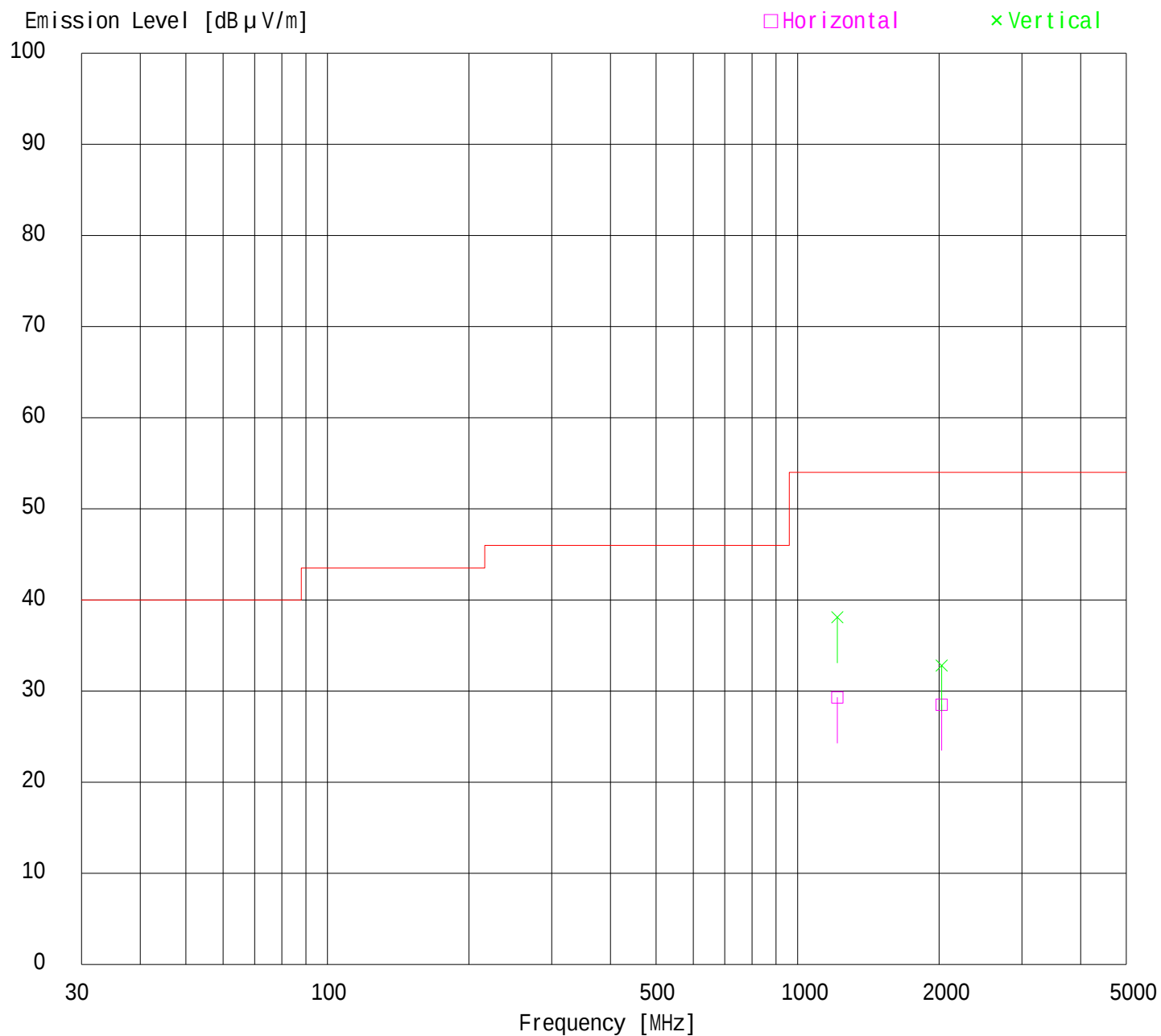
UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 26EE0195-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V594SU
Serial No. : -
Power : AC120V/60Hz
Mode : TV Reception + Rec
Remarks : 25dBm
Date : 12/20/2005
Test Distance : 3 m
Temperature : 22
Humidity : 38 %
Regulation : FCC Part15B CLASS B(Average Limit / Upper1GHz)

Engineer : Tsubasa Takayama



DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 26EE0195-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V594SU
Serial No. : -
Power : AC120V/60Hz
Mode : AV Input 1 + Rec
Remarks : 1Vp-p
Date : 1/6/2005
Test Distance : 3 m
Temperature : 21 °C
Humidity : 39 %
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]		HOR [dB]	VER [dB]
1.	675.00	BB	35.2	39.1	20.6	29.9	6.9	6.0	38.8	42.7	46.0	7.2	3.3

CALCULATION: READING + ANT. FACTOR + CABLE LOSS - AMP. GAIN + ATTEN.

Expect for the above table : adequate margin data below the limits.
ANT TYPE:30-300MHz Biconical, 300-1000MHz Logperiodic

DATA OF RADIATION TEST

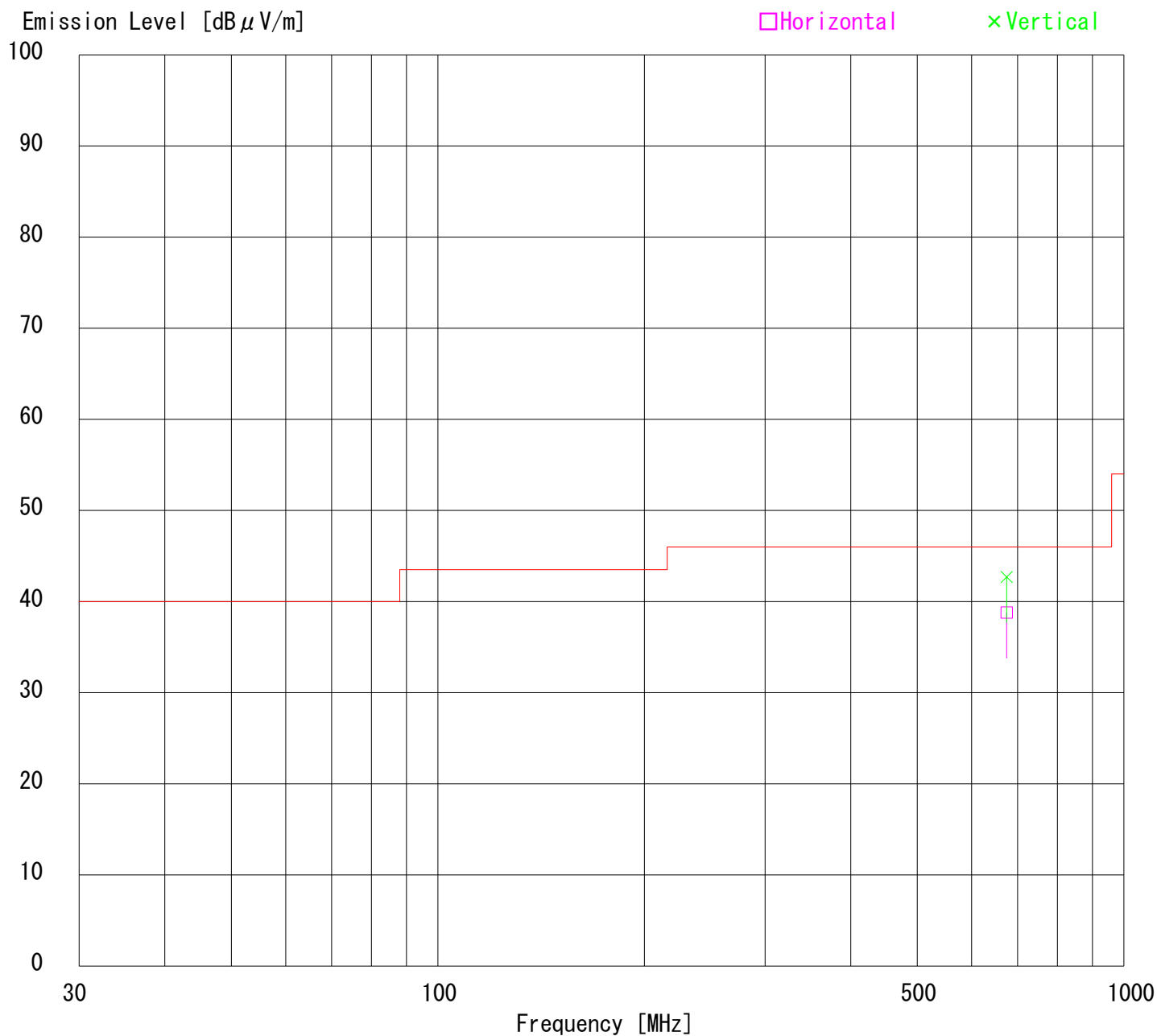
UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 26EE0195-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V594SU
Serial No. : -
Power : AC120V/60Hz
Mode : AV Input 1 + Rec
Remarks : 1Vp-p
Date : 1/6/2005
Test Distance : 3 m
Temperature : 21 °C
Humidity : 39 %
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama



DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 26EE0195-YW-1

Applicant : Orion Electric Co., Ltd.
 Kind of Equipment : DVD/VCR
 Model No. : SD-V594SU
 Serial No. : -
 Power : AC120V/60Hz
 Mode : AV Input 1 + Rec
 Remarks : 5Vp-p
 Date : 1/6/2005
 Test Distance : 3 m
 Temperature : 21 °C
 Humidity : 39 %
 Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]		HOR [dB]	VER [dB]
1.	135.00	BB	34.5	34.3	14.7	29.7	2.6	6.0	28.1	27.9	43.5	15.4	15.6
2.	202.50	BB	38.2	37.4	16.5	29.7	3.3	6.0	34.3	33.5	43.5	9.2	10.0
3.	219.37	BB	33.5	27.4	16.8	29.7	3.5	6.0	30.1	24.0	46.0	15.9	22.0
4.	270.00	BB	43.6	31.1	18.4	29.6	4.0	6.0	42.4	29.9	46.0	3.6	16.1
5.	300.01	BB	30.8	32.7	14.1	29.6	4.3	6.0	25.6	27.5	46.0	20.4	18.5
6.	404.99	BB	43.6	39.6	16.2	29.9	5.1	6.0	41.0	37.0	46.0	5.0	9.0
7.	675.00	BB	35.6	39.3	20.6	29.9	6.9	6.0	39.2	42.9	46.0	6.8	3.1
8.	810.00	BB	31.0	37.0	21.2	29.7	7.8	5.9	36.2	42.2	46.0	9.8	3.8
9.	945.00	BB	31.6	34.6	22.4	28.9	8.6	6.0	39.7	42.7	46.0	6.3	3.3

CALCULATION: READING + ANT. FACTOR + CABLE LOSS - AMP. GAIN + ATTEN.

Expect for the above table : adequate margin data below the limits.

ANT TYPE:30-300MHz Biconical,300-1000MHz Logperiodic

DATA OF RADIATION TEST

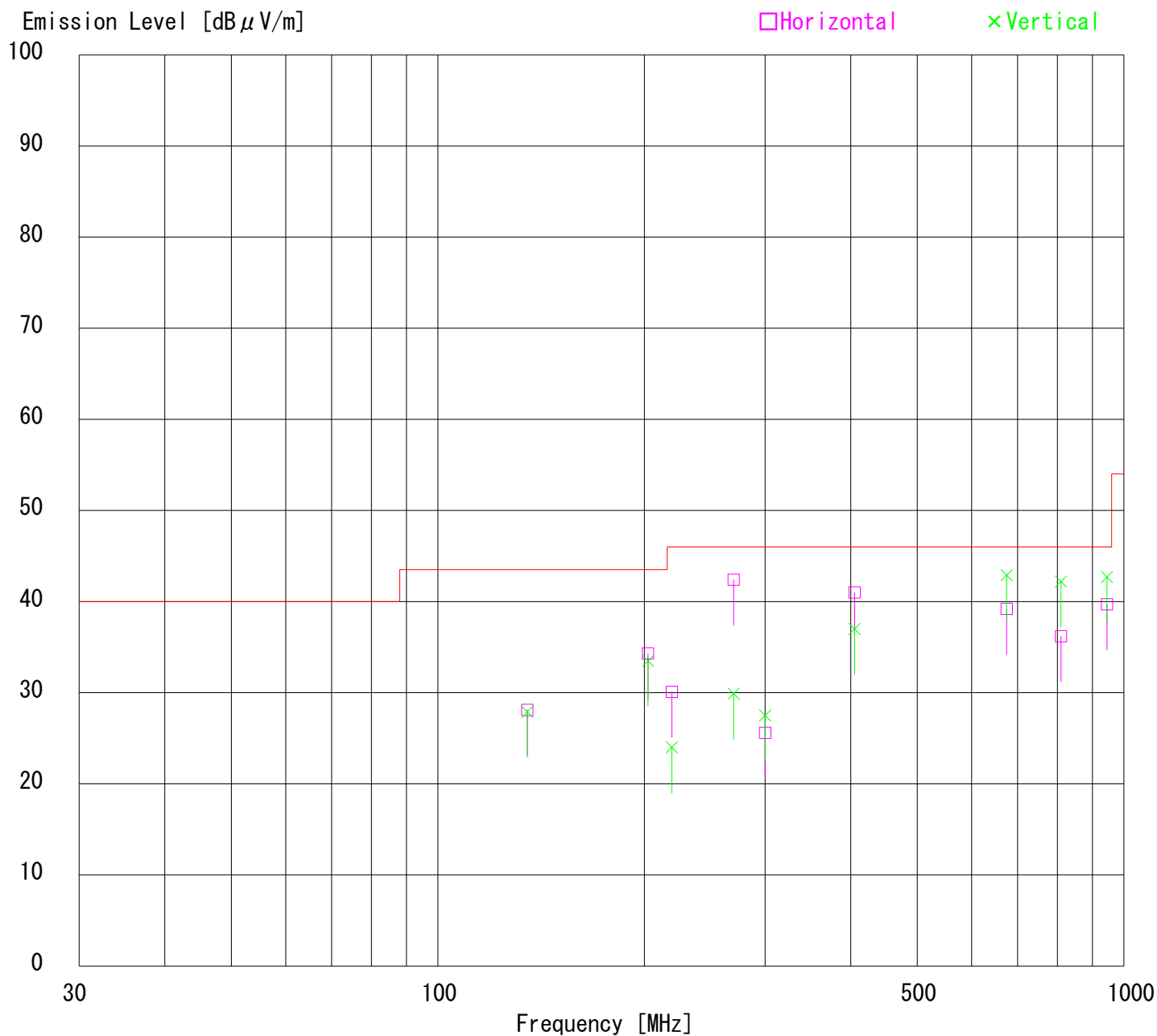
UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 26EE0195-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V594SU
Serial No. : -
Power : AC120V/60Hz
Mode : AV Input 1 + Rec
Remarks : 5Vp-p
Date : 1/6/2005
Test Distance : 3 m
Temperature : 21 °C
Humidity : 39 %
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama



DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No.: 26EE0195-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V594SU
Serial No. : -
Power : AC120V/60Hz
Mode : AV Input 1 + Rec
Remarks : 5Vp-p
Date : 12/20/2005
Test Distance : 3 m
Temperature : 22 Engineer : Tsubasa Takayama
Humidity : 38 %
Regulation : FCC Part15B CLASS B(Peak Limit / Upper1GHz)

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μV/m]	MARGIN	
			HOR [dB μV]	VER [dB μV]					HOR [dB μV/m]	VER [dB μV/m]		HOR [dB]	VER [dB]
1.	1215.00	BB	50.9	53.8	24.1	40.2	2.0	0.0	36.8	39.7	74.0	37.2	34.3
2.	2025.00	BB	48.9	50.1	24.5	39.3	2.8	0.0	36.9	38.1	74.0	37.1	35.9

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.

Except for the above table: adequate margin data below the limits.

ANT.TYPE : 1-5GHz Horn

DATA OF RADIATION TEST

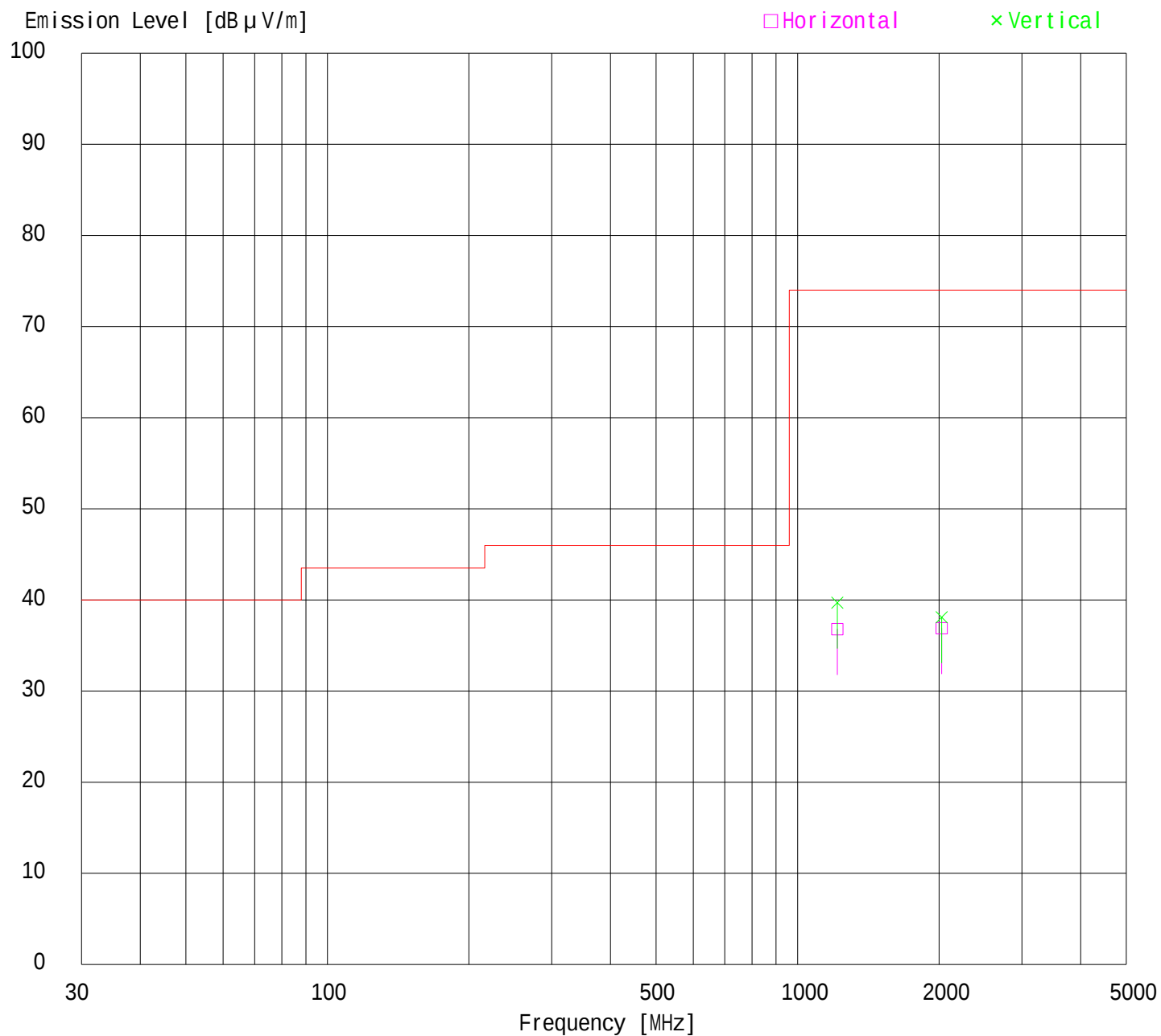
UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 26EE0195-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V594SU
Serial No. : -
Power : AC120V/60Hz
Mode : AV Input 1 + Rec
Remarks : 5Vp-p
Date : 12/20/2005
Test Distance : 3 m
Temperature : 22
Humidity : 38 %
Regulation : FCC Part15B CLASS B(Peak Limit / Upper1GHz)

Engineer : Tsubasa Takayama



DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 26EE0195-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V594SU
Serial No. : -
Power : AC120V/60Hz
Mode : AV Input 1 + Rec
Remarks : 5Vp-p
Date : 12/20/2005
Test Distance : 3 m
Temperature : 22 Engineer : Tsubasa Takayama
Humidity : 38 %
Regulation : FCC Part15B CLASS B(Average Limit / Upper1GHz)

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
			HOR [dB μ V]	VER [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]	[dB μ V/m]	[dB]	HOR [dB]	VER [dB]
1.	1215.00	BB	44.2	49.7	24.1	40.2	2.0	0.0	30.1	35.6	54.0	23.9	18.4	
2.	2025.00	BB	40.7	42.2	24.5	39.3	2.8	0.0	28.7	30.2	54.0	25.3	23.8	

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.

Except for the above table: adequate margin data below the limits.

ANT.TYPE : 1-5GHz Horn

DATA OF RADIATION TEST

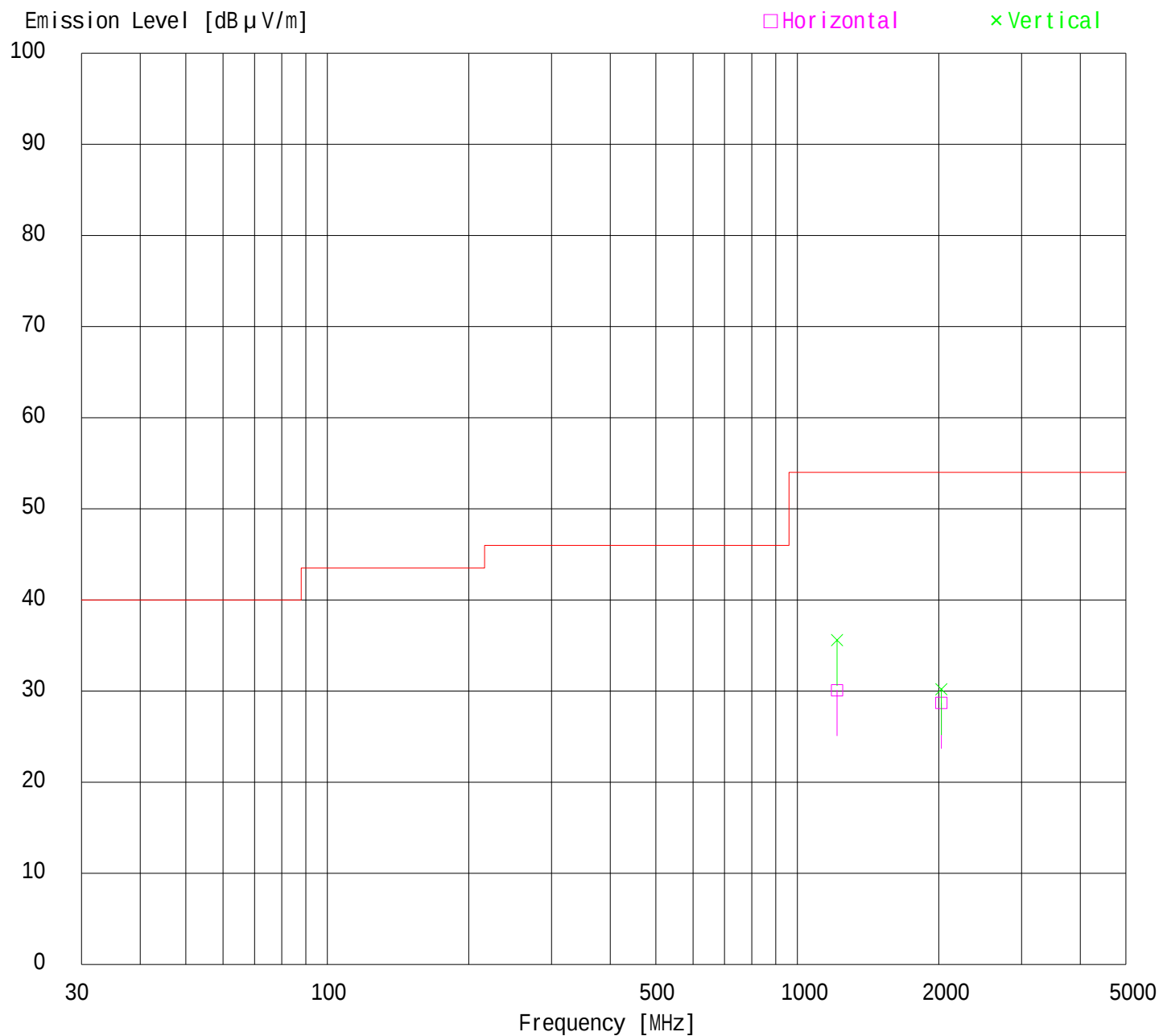
UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 26EE0195-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V594SU
Serial No. : -
Power : AC120V/60Hz
Mode : AV Input 1 + Rec
Remarks : 5Vp-p
Date : 12/20/2005
Test Distance : 3 m
Temperature : 22
Humidity : 38 %
Regulation : FCC Part15B CLASS B(Average Limit / Upper1GHz)

Engineer : Tsubasa Takayama



DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 26EE0195-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V594SU
Serial No. : -
Power : AC120V/60Hz
Mode : AV Input 2 + Rec
Remarks : 1Vp-p
Date : 1/6/2005
Test Distance : 3 m
Temperature : 21 °C
Humidity : 39 %
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]		HOR [dB]	VER [dB]
1.	270.00	BB	43.3	30.2	18.4	29.6	4.0	6.0	42.1	29.0	46.0	3.9	17.0

CALCULATION: READING + ANT. FACTOR + CABLE LOSS - AMP. GAIN + ATTEN.

Expect for the above table : adequate margin data below the limits.
ANT TYPE:30-300MHz Biconical, 300-1000MHz Logperiodic

DATA OF RADIATION TEST

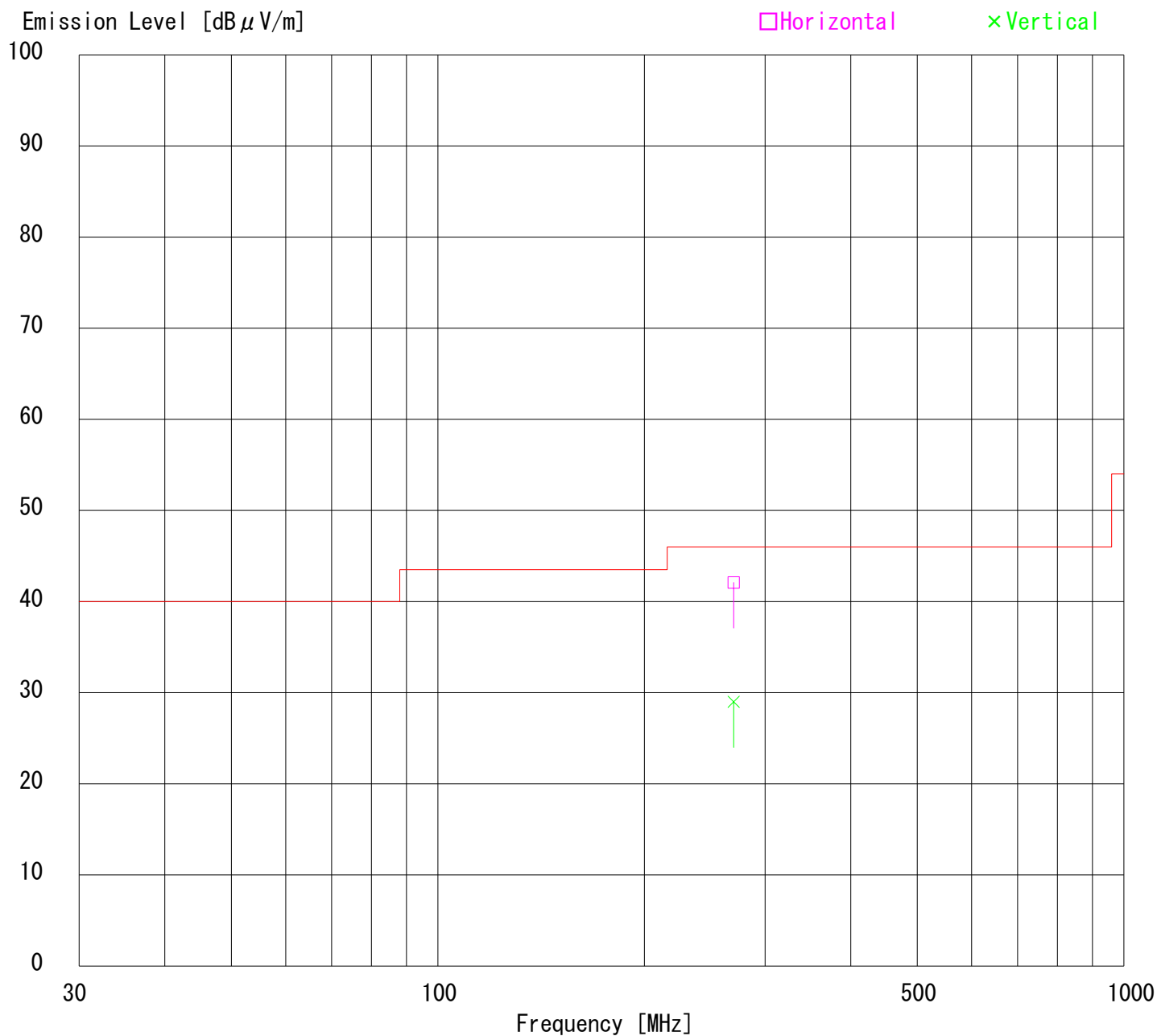
UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 26EE0195-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V594SU
Serial No. : -
Power : AC120V/60Hz
Mode : AV Input 2 + Rec
Remarks : 1Vp-p
Date : 1/6/2005
Test Distance : 3 m
Temperature : 21 °C
Humidity : 39 %
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama



DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 26EE0195-YW-1

Applicant : Orion Electric Co., Ltd.
 Kind of Equipment : DVD/VCR
 Model No. : SD-V594SU
 Serial No. : -
 Power : AC120V/60Hz
 Mode : AV Input 2 + Rec
 Remarks : 5Vp-p
 Date : 1/6/2005
 Test Distance : 3 m
 Temperature : 21 °C
 Humidity : 39 %
 Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]		HOR [dB]	VER [dB]
1.	135.01	BB	36.7	34.6	14.7	29.7	2.6	6.0	30.3	28.2	43.5	13.2	15.3
2.	202.50	BB	42.4	37.1	16.5	29.7	3.3	6.0	38.5	33.2	43.5	5.0	10.3
3.	219.38	BB	34.5	25.7	16.8	29.7	3.5	6.0	31.1	22.3	46.0	14.9	23.7
4.	270.00	BB	43.7	30.8	18.4	29.6	4.0	6.0	42.5	29.6	46.0	3.5	16.4
5.	300.01	BB	31.1	32.7	14.1	29.6	4.3	6.0	25.9	27.5	46.0	20.1	18.5
6.	405.03	BB	42.0	40.4	16.3	29.9	5.1	6.0	39.5	37.9	46.0	6.5	8.1
7.	675.00	BB	33.8	38.4	20.6	29.9	6.9	6.0	37.4	42.0	46.0	8.6	4.0
8.	810.00	BB	31.0	36.2	21.2	29.7	7.8	5.9	36.2	41.4	46.0	9.8	4.6
9.	945.00	BB	32.1	34.0	22.4	28.9	8.6	6.0	40.2	42.1	46.0	5.8	3.9

CALCULATION: READING + ANT. FACTOR + CABLE LOSS - AMP. GAIN + ATTEN.

Expect for the above table : adequate margin data below the limits.

ANT TYPE:30-300MHz Biconical,300-1000MHz Logperiodic

DATA OF RADIATION TEST

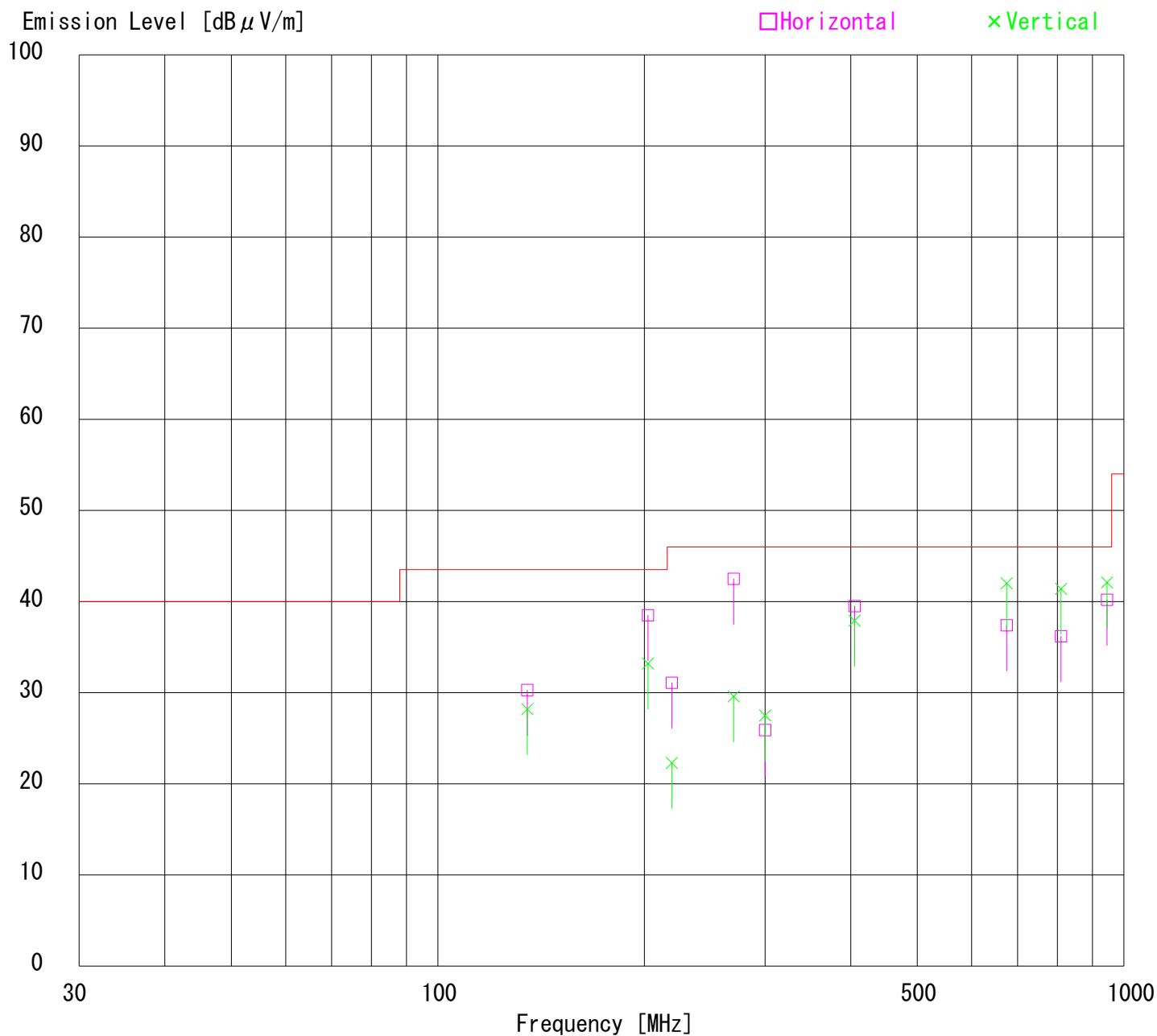
UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 26EE0195-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V594SU
Serial No. : -
Power : AC120V/60Hz
Mode : AV Input 2 + Rec
Remarks : 5Vp-p
Date : 1/6/2005
Test Distance : 3 m
Temperature : 21 °C
Humidity : 39 %
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama



DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 26EE0195-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V594SU
Serial No. : -
Power : AC120V/60Hz
Mode : AV Input 2 + Rec
Remarks : 5Vp-p
Date : 12/20/2005
Test Distance : 3 m
Temperature : 22 Engineer : Tsubasa Takayama
Humidity : 38 %
Regulation : FCC Part15B CLASS B(Peak Limit / Upper1GHz)

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]		HOR [dB]	VER [dB]
1.	1215.00	BB	51.0	54.5	24.1	40.2	2.0	0.0	36.9	40.4	74.0	37.1	33.6
2.	2025.00	BB	48.8	48.6	24.5	39.3	2.8	0.0	36.8	36.6	74.0	37.2	37.4

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.

Except for the above table: adequate margin data below the limits.

ANT.TYPE : 1-5GHz Horn

DATA OF RADIATION TEST

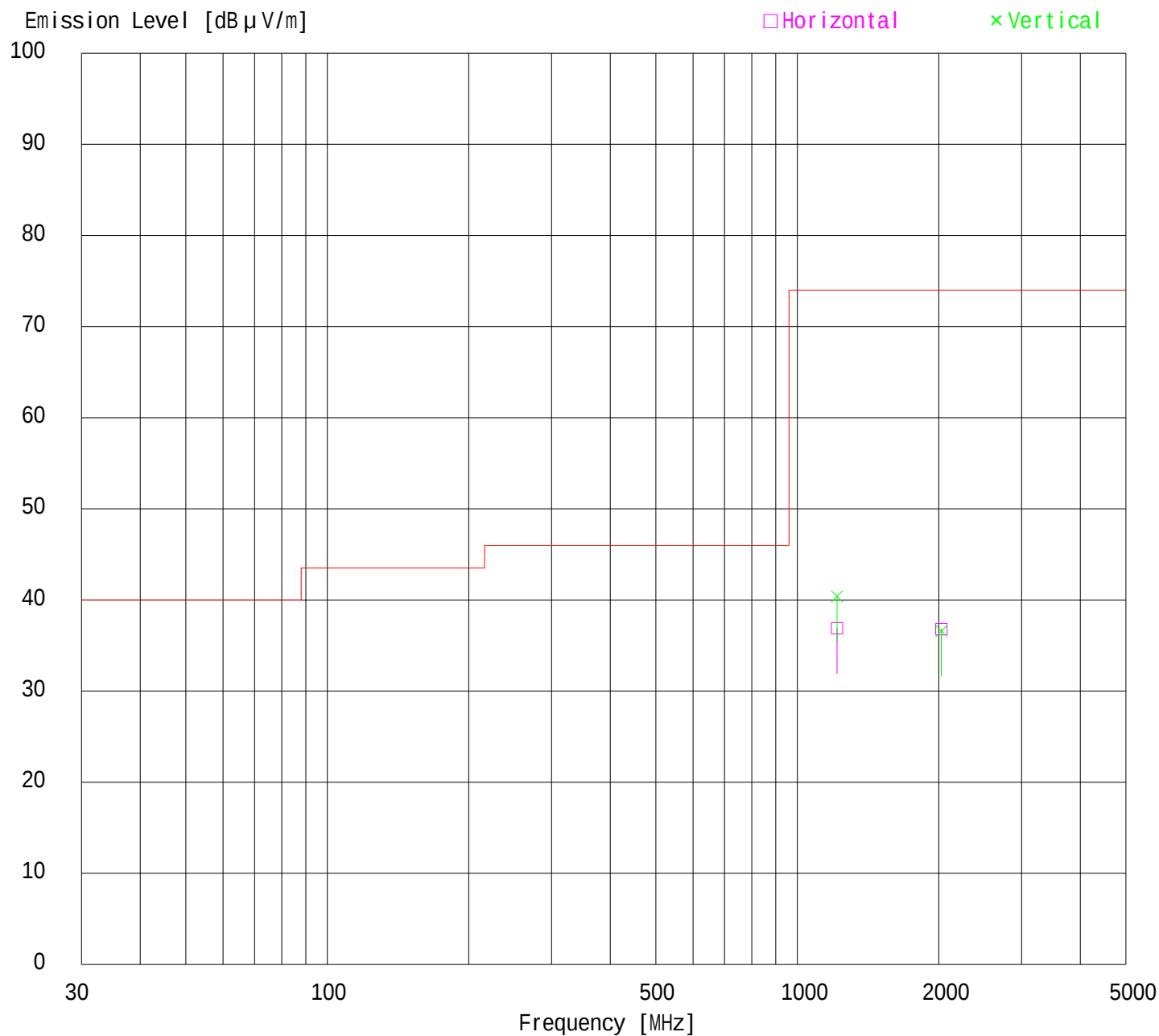
UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 26EE0195-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V594SU
Serial No. : -
Power : AC120V/60Hz
Mode : AV Input 2 + Rec
Remarks : 5Vp-p
Date : 12/20/2005
Test Distance : 3 m
Temperature : 22
Humidity : 38 %
Regulation : FCC Part15B CLASS B(Peak Limit / Upper1GHz)

Engineer : Tsubasa Takayama



DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 26EE0195-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V594SU
Serial No. : -
Power : AC120V/60Hz
Mode : AV Input 2 + Rec
Remarks : 5Vp-p
Date : 12/20/2005
Test Distance : 3 m
Temperature : 22 Engineer : Tsubasa Takayama
Humidity : 38 %
Regulation : FCC Part15B CLASS B(Average Limit / Upper1GHz)

No.	FREQ.	ANT TYPE	READING		ANT FACTOR	AMP GAIN	CABLE LOSS	ATTEN.	RESULT		LIMITS	MARGIN	
	[MHz]		HOR	VER					[dB μ V]	[dB/m]		[dB]	[dB]
			[dB μ V]			[dB]		[dB]		[dB μ V/m]		[dB μ V/m]	
1.	1215.00	BB	42.3	49.7	24.1	40.2	2.0	0.0	28.2	35.6	54.0	25.8	18.4
2.	2025.00	BB	41.1	39.1	24.5	39.3	2.8	0.0	29.1	27.1	54.0	24.9	26.9

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.

Except for the above table: adequate margin data below the limits.

ANT.TYPE : 1-5GHz Horn

DATA OF RADIATION TEST

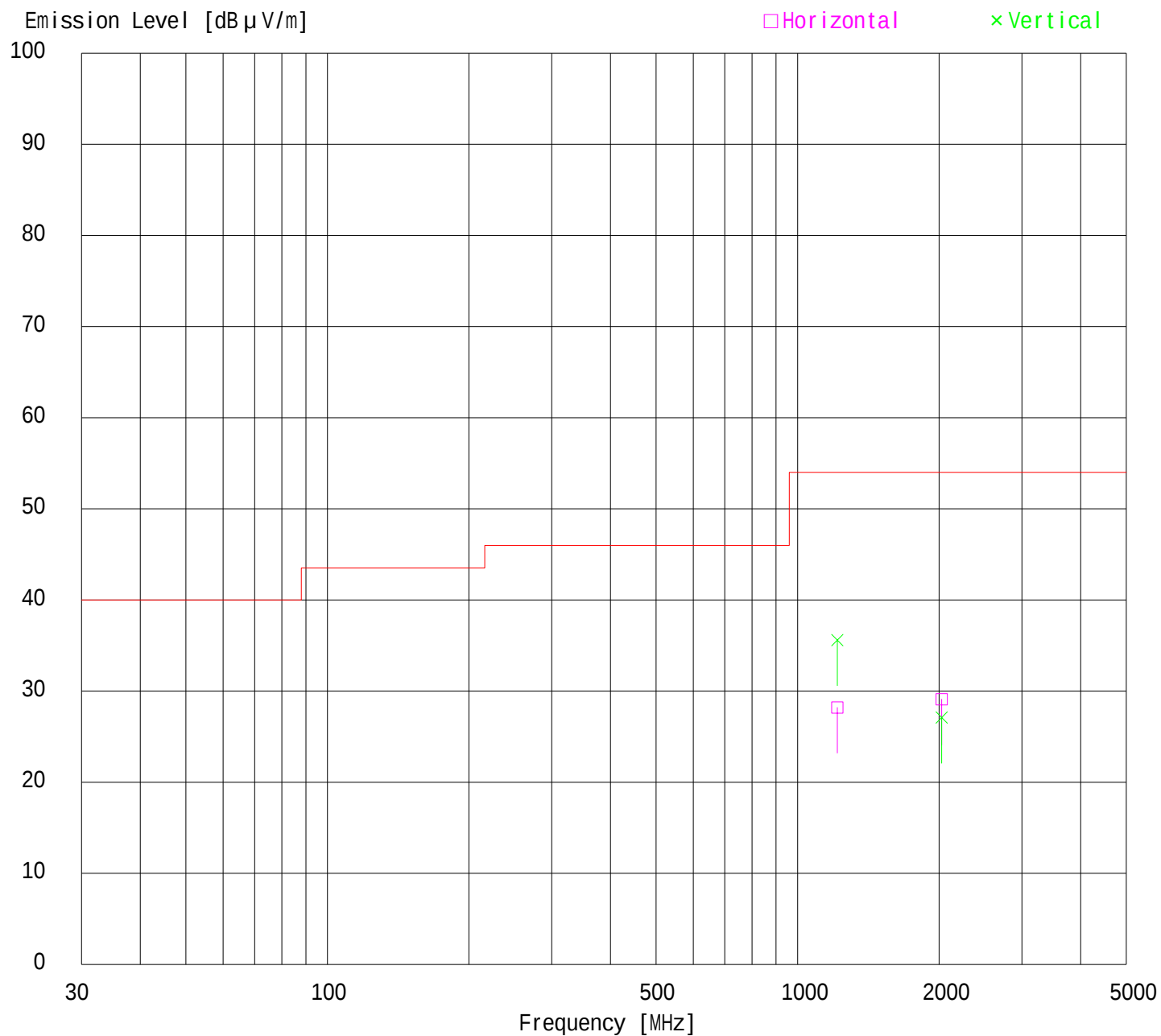
UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No.: 26EE0195-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V594SU
Serial No. : -
Power : AC120V/60Hz
Mode : AV Input 2 + Rec
Remarks : 5Vp-p
Date : 12/20/2005
Test Distance : 3 m
Temperature : 22
Humidity : 38 %
Regulation : FCC Part15B CLASS B(Average Limit / Upper1GHz)

Engineer : Tsubasa Takayama



DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 26EE0195-YW-1

Applicant : Orion Electric Co., Ltd.
 Kind of Equipment : DVD/VCR
 Model No. : SD-V594SU
 Serial No. : -
 Power : AC120V/60Hz
 Mode : VCR Playback
 Remarks :
 Date : 1/6/2005
 Test Distance : 3 m
 Temperature : 21 °C
 Humidity : 39 %
 Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER					HOR [dB μ V/m]	VER		HOR [dB]	VER
1.	90.02	BB	47.6	44.1	8.3	29.8	2.1	5.9	34.1	30.6	43.5	9.4	12.9
2.	135.03	BB	41.1	31.6	14.7	29.7	2.6	6.0	34.7	25.2	43.5	8.8	18.3
3.	202.50	BB	36.3	32.0	16.5	29.7	3.3	6.0	32.4	28.1	43.5	11.1	15.4
4.	219.38	BB	39.4	32.7	16.8	29.7	3.5	6.0	36.0	29.3	46.0	10.0	16.7
5.	270.03	BB	45.3	36.2	18.4	29.6	4.0	6.0	44.1	35.0	46.0	1.9	11.0
6.	300.05	BB	45.6	36.7	14.1	29.6	4.3	6.0	40.4	31.5	46.0	5.6	14.5
7.	405.00	BB	43.8	36.7	16.3	29.9	5.1	6.0	41.3	34.2	46.0	4.7	11.8
8.	674.99	BB	32.2	33.8	20.6	29.9	6.9	6.0	35.8	37.4	46.0	10.2	8.6
9.	741.75	BB	36.2	35.0	21.2	29.8	7.4	5.9	40.9	39.7	46.0	5.1	6.3
10.	770.44	BB	37.3	30.6	21.2	29.8	7.5	5.9	42.1	35.4	46.0	3.9	10.6
11.	810.02	BB	31.8	35.9	21.2	29.7	7.8	5.9	37.0	41.1	46.0	9.0	4.9
12.	945.00	BB	30.4	34.2	22.4	28.9	8.6	6.0	38.5	42.3	46.0	7.5	3.7

CALCULATION: READING + ANT. FACTOR + CABLE LOSS - AMP. GAIN + ATTEN.

Expect for the above table : adequate margin data below the limits.
 ANT TYPE:30-300MHz Biconical, 300-1000MHz Logperiodic

DATA OF RADIATION TEST

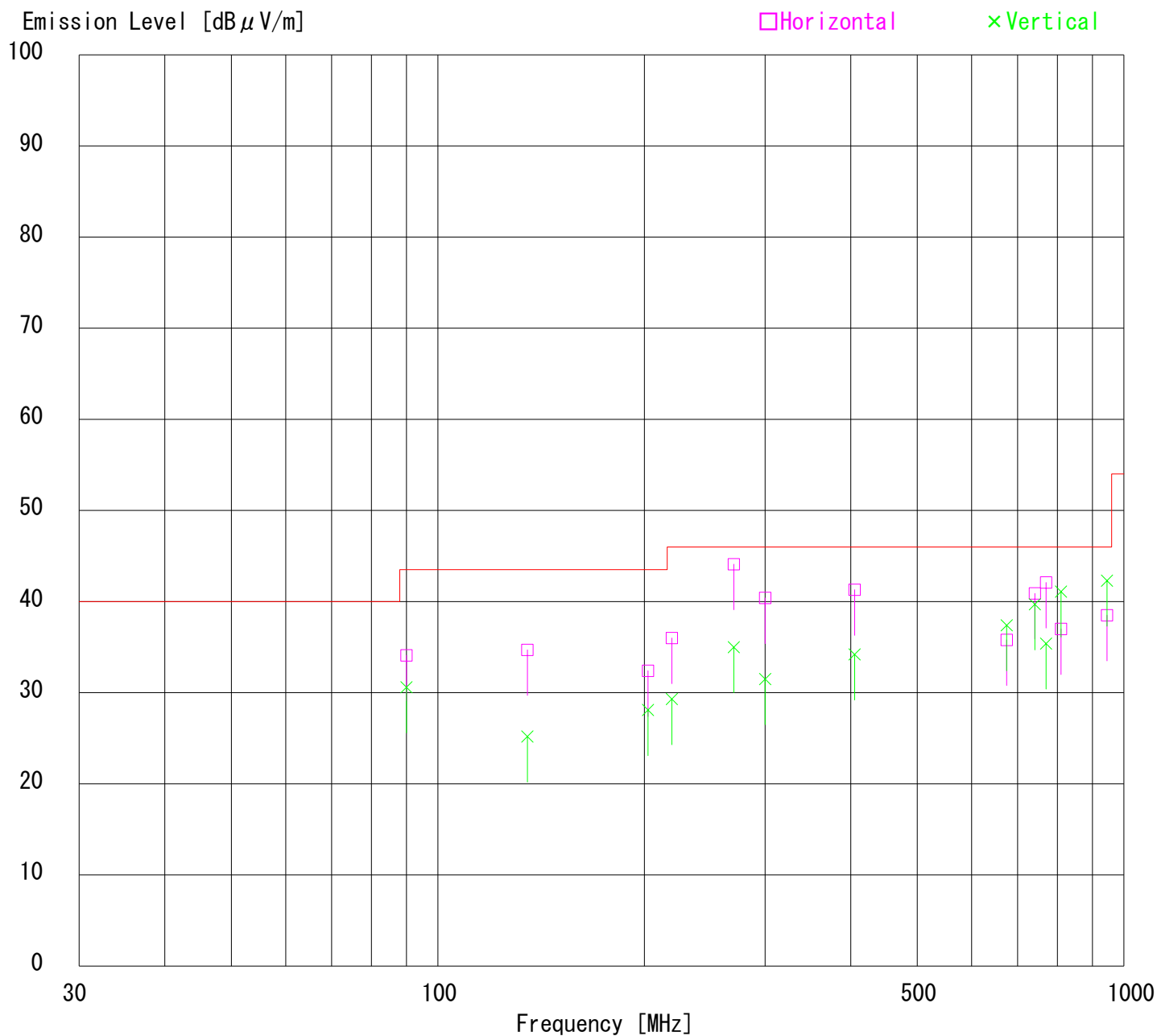
UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 26EE0195-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V594SU
Serial No. : -
Power : AC120V/60Hz
Mode : VCR Playback
Remarks :
Date : 1/6/2005
Test Distance : 3 m
Temperature : 21 °C
Humidity : 39 %
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama



DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No.: 26EE0195-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V594SU
Serial No. : -
Power : AC120V/60Hz
Mode : VCR Playback
Remarks :
Date : 12/20/2005
Test Distance : 3 m
Temperature : 22 Engineer : Tsubasa Takayama
Humidity : 38 %
Regulation : FCC Part15B CLASS B(Peak Limit / Upper1GHz)

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]		HOR [dB]	VER [dB]
1.	1215.00	BB	67.7	65.4	24.1	40.2	2.0	0.0	53.6	51.3	74.0	20.4	22.7
2.	2025.00	BB	48.8	48.9	24.5	39.3	2.8	0.0	36.8	36.9	74.0	37.2	37.1

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.

Except for the above table: adequate margin data below the limits.

ANT.TYPE : 1-5GHz Horn

DATA OF RADIATION TEST

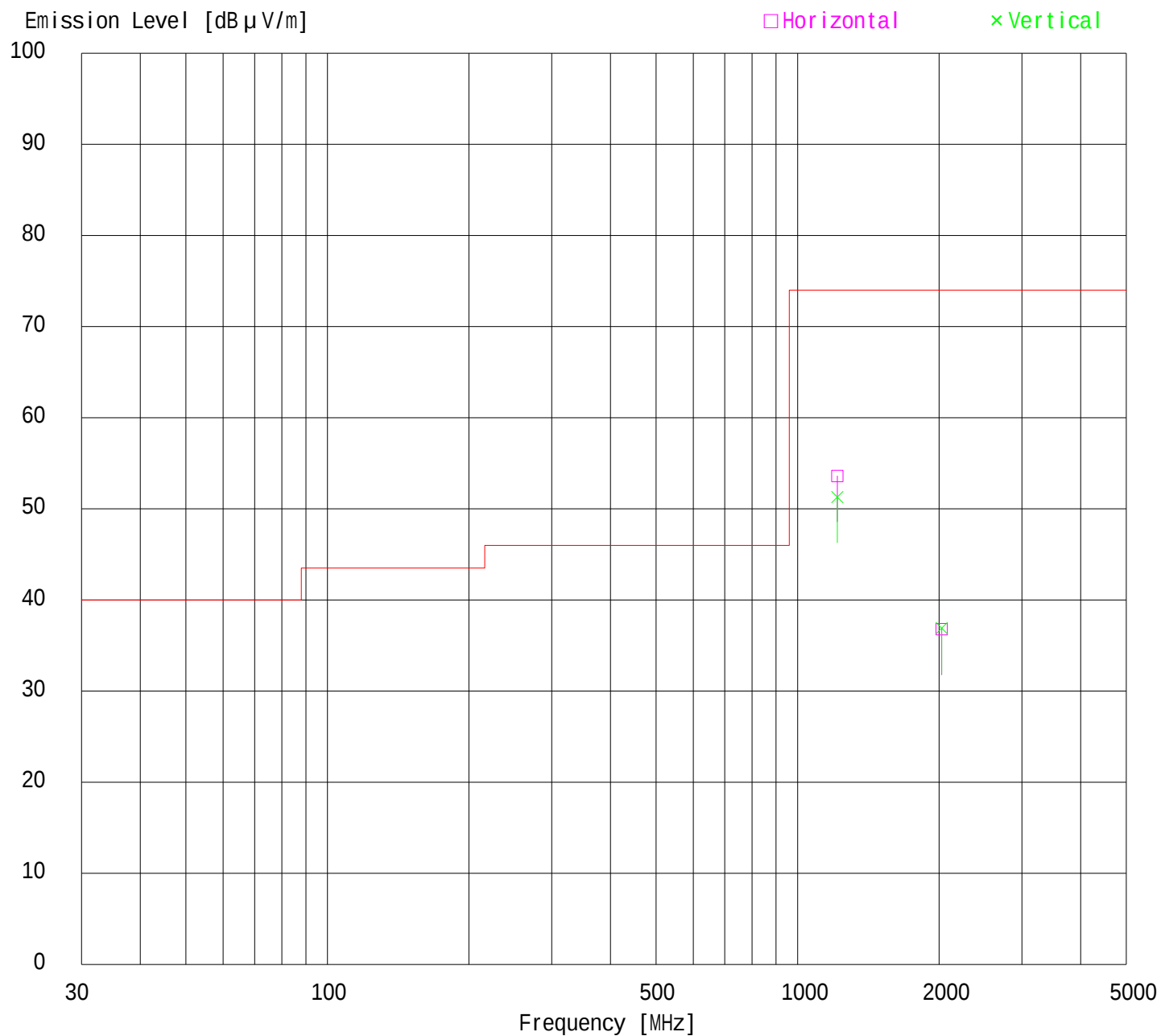
UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 26EE0195-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V594SU
Serial No. : -
Power : AC120V/60Hz
Mode : VCR Playback
Remarks :
Date : 12/20/2005
Test Distance : 3 m
Temperature : 22
Humidity : 38 %
Regulation : FCC Part15B CLASS B(Peak Limit / Upper1GHz)

Engineer : Tsubasa Takayama



DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 26EE0195-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V594SU
Serial No. : -
Power : AC120V/60Hz
Mode : VCR Playback
Remarks :
Date : 12/20/2005
Test Distance : 3 m
Temperature : 22 °C
Humidity : 38 %
Regulation : FCC Part15B CLASS B(Average Limit / Upper1GHz)

Engineer : Tsubasa Takayama

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]		HOR [dB]	VER [dB]
1.	1215.00	BB	49.2	47.9	24.1	40.2	2.0	0.0	35.1	33.8	54.0	18.9	20.2
2.	2025.00	BB	39.2	37.9	24.5	39.3	2.8	0.0	27.2	25.9	54.0	26.8	28.1

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.

Expect for the above table : adequate margin data below the limits.

ANT.TYPE : 1-5GHz Horn

DATA OF RADIATION TEST

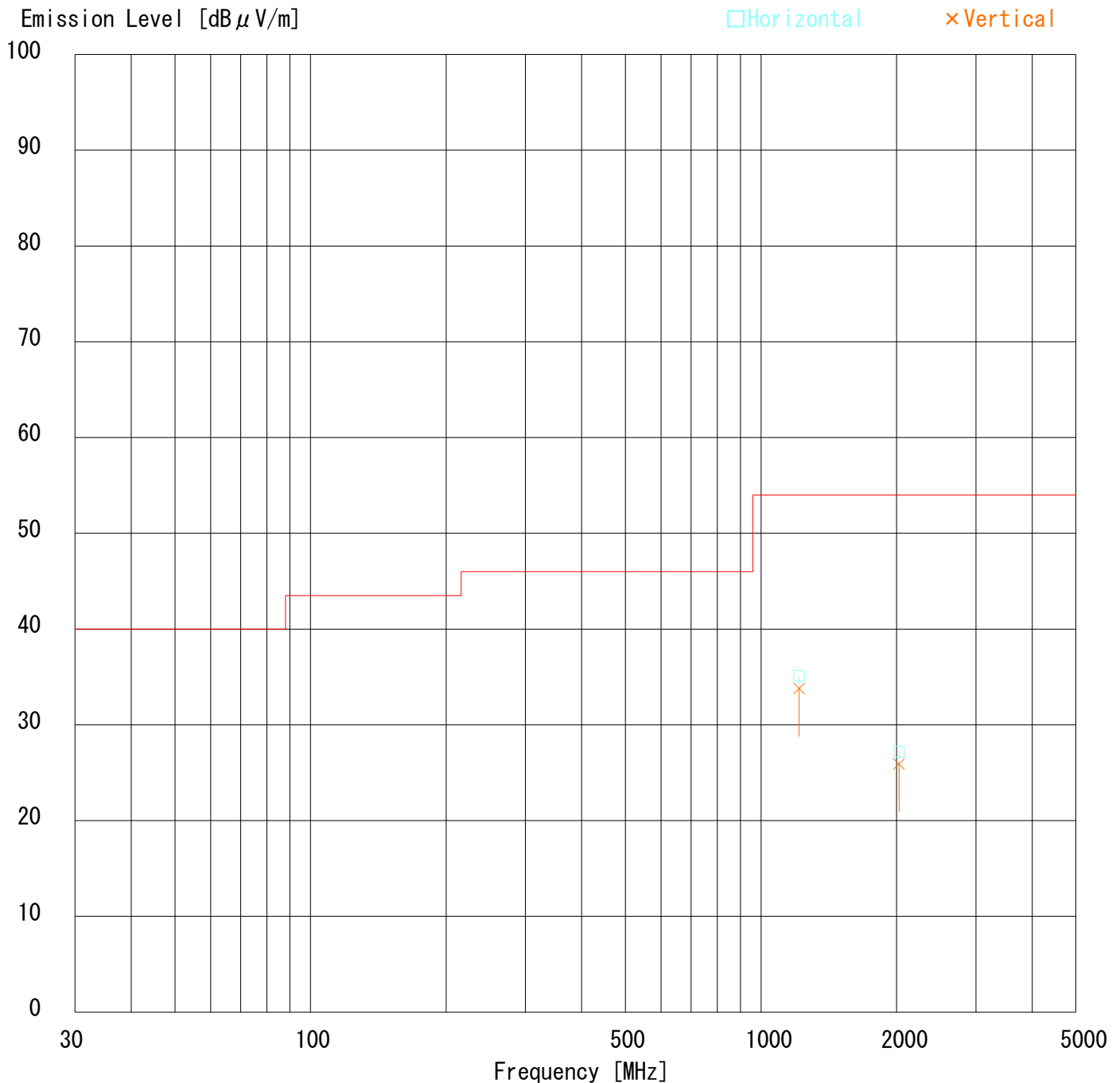
UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 26EE0195-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V594SU
Serial No. : -
Power : AC120V/60Hz
Mode : VCR Playback
Remarks :
Date : 12/20/2005
Test Distance : 3 m
Temperature : 22 °C
Humidity : 38 %
Regulation : FCC Part15B CLASS B(Average Limit / Upper1GHz)

Engineer : Tsubasa Takayama



DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 26EE0195-YW-1

Applicant : Orion Electric Co., Ltd.
 Kind of Equipment : DVD/VCR
 Model No. : SD-V594SU
 Serial No. : -
 Power : AC120V/60Hz
 Mode : HDMI Mode (DVD Play)
 Remarks :
 Date : 1/6/2005
 Test Distance : 3 m
 Temperature : 21 °C
 Humidity : 39 %
 Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER					HOR [dB μ V/m]	VER		HOR [dB]	VER
1.	135.02	BB	32.5	35.8	14.7	29.7	2.6	6.0	26.1	29.4	43.5	17.4	14.1
2.	202.50	BB	39.8	35.5	16.5	29.7	3.3	6.0	35.9	31.6	43.5	7.6	11.9
3.	270.01	BB	45.0	37.2	18.4	29.6	4.0	6.0	43.8	36.0	46.0	2.2	10.0
4.	300.05	BB	45.5	36.1	14.1	29.6	4.3	6.0	40.3	30.9	46.0	5.7	15.1
5.	371.04	BB	43.4	46.0	15.6	29.8	4.8	6.0	40.0	42.6	46.0	6.0	3.4
6.	405.00	BB	44.0	36.2	16.3	29.9	5.1	6.0	41.5	33.7	46.0	4.5	12.3
7.	519.46	BB	39.0	40.7	17.5	30.1	5.9	6.0	38.3	40.0	46.0	7.7	6.0
8.	540.00	BB	38.9	36.8	17.9	30.1	6.1	6.0	38.8	36.7	46.0	7.2	9.3
9.	675.00	BB	36.2	37.1	20.6	29.9	6.9	6.0	39.8	40.7	46.0	6.2	5.3
10.	741.80	BB	32.9	35.9	21.2	29.8	7.4	5.9	37.6	40.6	46.0	8.4	5.4
11.	816.30	BB	31.3	36.3	21.2	29.7	7.8	5.9	36.5	41.5	46.0	9.5	4.5
12.	890.51	BB	31.7	26.1	21.4	29.2	8.2	5.9	38.0	32.4	46.0	8.0	13.6
13.	945.00	BB	32.4	32.7	22.4	28.9	8.6	6.0	40.5	40.8	46.0	5.5	5.2

CALCULATION: READING + ANT. FACTOR + CABLE LOSS - AMP. GAIN + ATTEN.

Expect for the above table : adequate margin data below the limits.
 ANT TYPE:30-300MHz Biconical,300-1000MHz Logperiodic

DATA OF RADIATION TEST

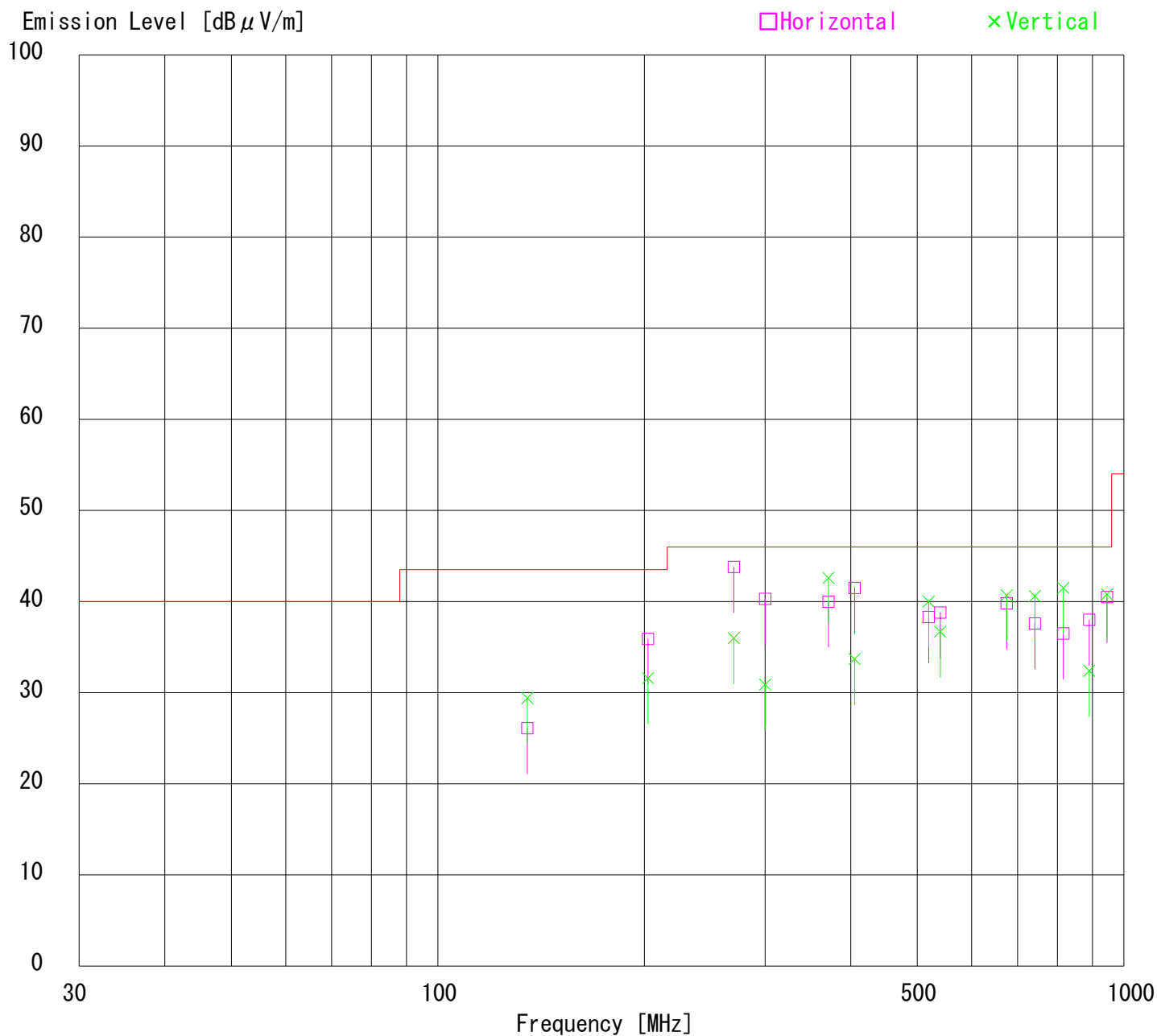
UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 26EE0195-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V594SU
Serial No. : -
Power : AC120V/60Hz
Mode : HDMI Mode (DVD Play)
Remarks :
Date : 1/6/2005
Test Distance : 3 m
Temperature : 21 °C
Humidity : 39 %
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama



DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 26EE0195-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V594SU
Serial No. : -
Power : AC120V/60Hz
Mode : HDMI Mode(DVD Play)
Remarks :
Date : 12/20/2005
Test Distance : 3 m
Temperature : 22 Engineer : Tsubasa Takayama
Humidity : 38 %
Regulation : FCC Part15B CLASS B(Peak Limit / Upper1GHz)

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]		HOR [dB]	VER [dB]
1.	1440.29	BB	50.8	50.3	24.3	40.0	2.2	0.0	37.3	36.8	74.0	36.7	37.2
2.	2638.25	BB	49.1	48.1	26.3	39.6	3.6	0.0	39.4	38.4	74.0	34.6	35.6

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.

Except for the above table: adequate margin data below the limits.

ANT.TYPE : 1-5GHz Horn

DATA OF RADIATION TEST

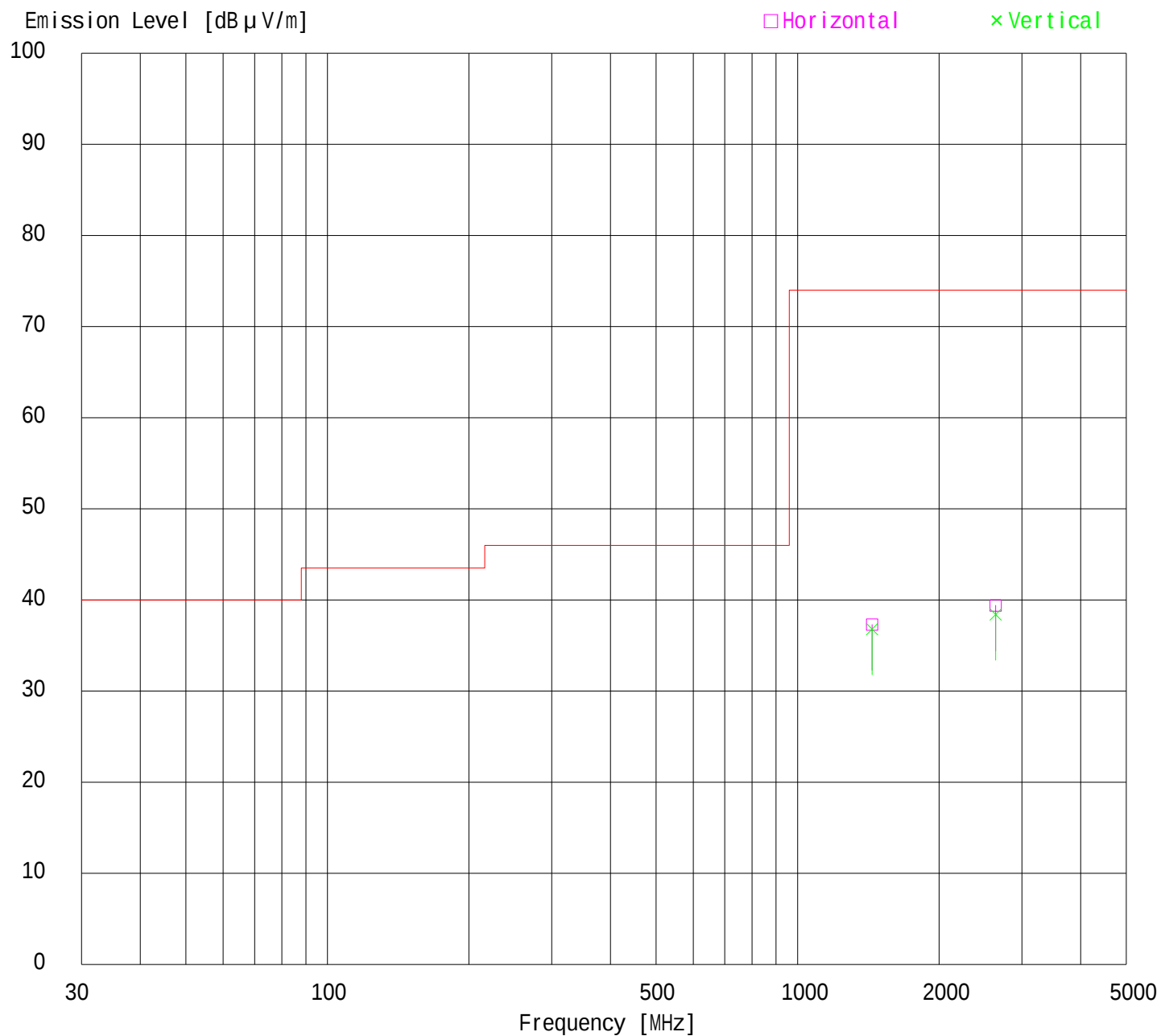
UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 26EE0195-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V594SU
Serial No. : -
Power : AC120V/60Hz
Mode : HDMI Mode(DVD Play)
Remarks :
Date : 12/20/2005
Test Distance : 3 m
Temperature : 22
Humidity : 38 %
Regulation : FCC Part15B CLASS B(Peak Limit / Upper1GHz)

Engineer : Tsubasa Takayama



DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 26EE0195-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V594SU
Serial No. : -
Power : AC120V/60Hz
Mode : HDMI Mode(DVD Play)
Remarks :
Date : 12/20/2005
Test Distance : 3 m
Temperature : 22
Humidity : 38 %
Regulation : FCC Part15B CLASS B(Average Limit / Upper1GHz)

Engineer : Tsubasa Takayama

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
			HOR [dB μ V]	VER [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]	[dB μ V/m]		HOR [dB]	VER [dB]
1.	1440.29	BB	43.3	38.9	24.3	40.0	2.2	0.0	29.8	25.4	54.0		24.2	28.6
2.	2638.25	BB	40.6	38.7	26.3	39.6	3.6	0.0	30.9	29.0	54.0		23.1	25.0

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.

Except for the above table: adequate margin data below the limits.

ANT.TYPE : 1-5GHz Horn

DATA OF RADIATION TEST

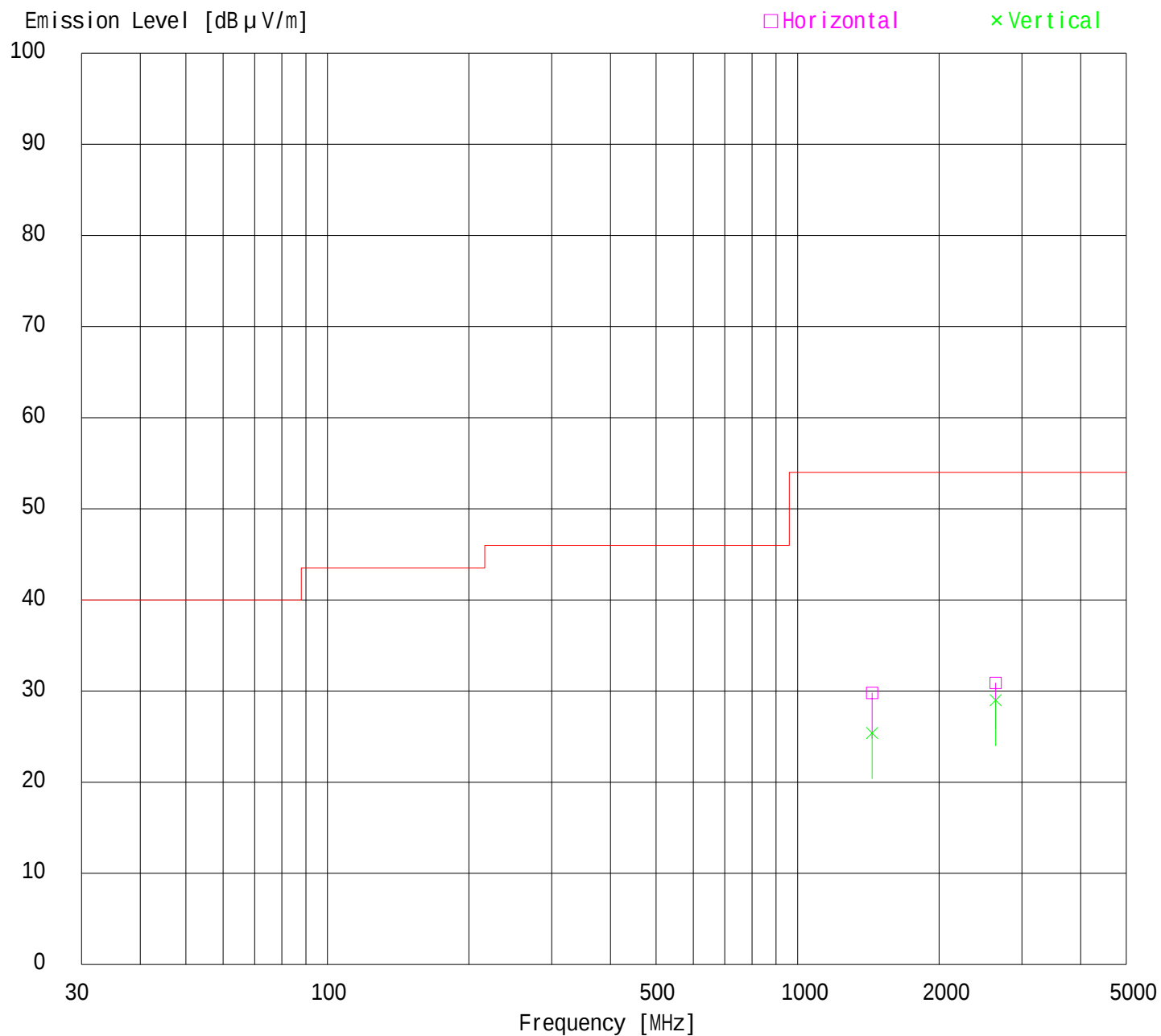
UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 26EE0195-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V594SU
Serial No. : -
Power : AC120V/60Hz
Mode : HDMI Mode(DVD Play)
Remarks :
Date : 12/20/2005
Test Distance : 3 m
Temperature : 22
Humidity : 38 %
Regulation : FCC Part15B CLASS B(Average Limit / Upper1GHz)

Engineer : Tsubasa Takayama



DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 26EE0195-YW-1

Applicant : Orion Electric Co., Ltd.
 Kind of Equipment : DVD/VCR
 Model No. : SD-V594SU
 Serial No. : -
 Power : AC120V/60Hz
 Mode : USB Mode
 Remarks :
 Date : 1/6/2006
 Test Distance : 3 m
 Temperature : 21 °C
 Humidity : 39 %
 Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]		HOR [dB]	VER [dB]
1.	72.99	BB	47.8	41.8	6.6	29.8	1.8	5.9	32.3	26.3	40.0	7.7	13.7
2.	270.02	BB	45.2	37.3	18.4	29.6	4.0	6.0	44.0	36.1	46.0	2.0	9.9
3.	296.71	BB	38.0	33.4	19.6	29.6	4.3	6.0	38.3	33.7	46.0	7.7	12.3
4.	300.07	BB	44.1	37.3	14.1	29.6	4.3	6.0	38.9	32.1	46.0	7.1	13.9
5.	371.07	BB	44.2	43.3	15.6	29.8	4.8	6.0	40.8	39.9	46.0	5.2	6.1
6.	480.10	BB	43.9	38.4	17.0	30.0	5.6	6.0	42.5	37.0	46.0	3.5	9.0
7.	540.01	BB	40.0	36.7	17.9	30.1	6.1	6.0	39.9	36.6	46.0	6.1	9.4
8.	816.32	BB	34.7	36.8	21.2	29.7	7.8	5.9	39.9	42.0	46.0	6.1	4.0
9.	945.01	BB	30.3	33.9	22.4	28.9	8.6	6.0	38.4	42.0	46.0	7.6	4.0

CALCULATION: READING + ANT. FACTOR + CABLE LOSS - AMP. GAIN + ATTEN.

Expect for the above table : adequate margin data below the limits.

ANT TYPE:30-300MHz Biconical, 300-1000MHz Logperiodic

DATA OF RADIATION TEST

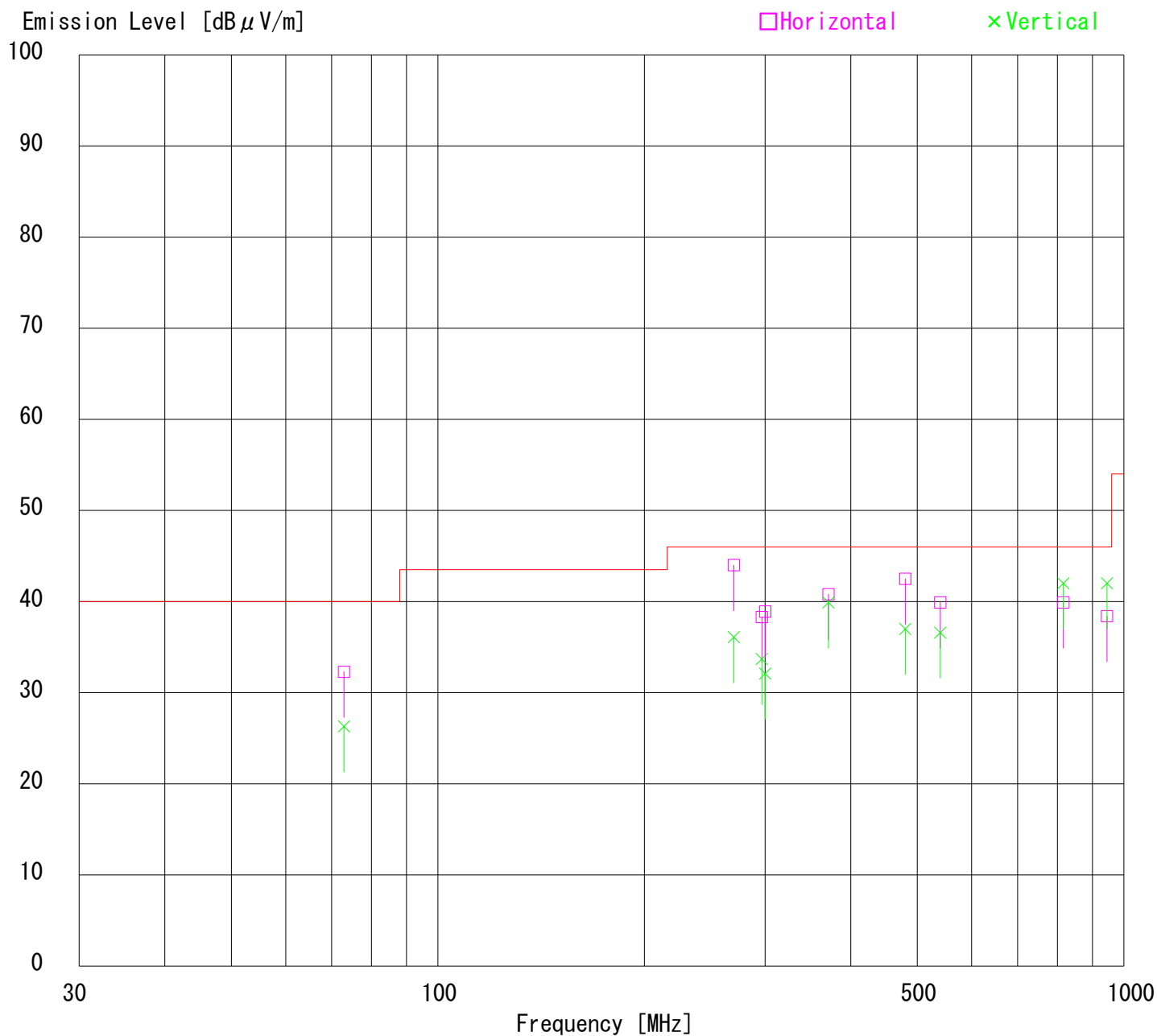
UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 26EE0195-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V594SU
Serial No. : -
Power : AC120V/60Hz
Mode : USB Mode
Remarks :
Date : 1/6/2006
Test Distance : 3 m
Temperature : 21 °C
Humidity : 39 %
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama



DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 26EE0195-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V594SU
Serial No. : -
Power : AC120V/60Hz
Mode : USB Mode
Remarks :
Date : 12/20/2005
Test Distance : 3 m
Temperature : 22 Engineer : Tsubasa Takayama
Humidity : 38 %
Regulation : FCC Part15B CLASS B(Peak Limit / Upper1GHz)

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]		HOR [dB]	VER [dB]
1.	1215.00	BB	49.9	55.6	24.1	40.2	2.0	0.0	35.8	41.5	74.0	38.2	32.5
2.	2025.00	BB	47.5	47.9	24.5	39.3	2.8	0.0	35.5	35.9	74.0	38.5	38.1

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.

Except for the above table: adequate margin data below the limits.

ANT.TYPE : 1-5GHz Horn

DATA OF RADIATION TEST

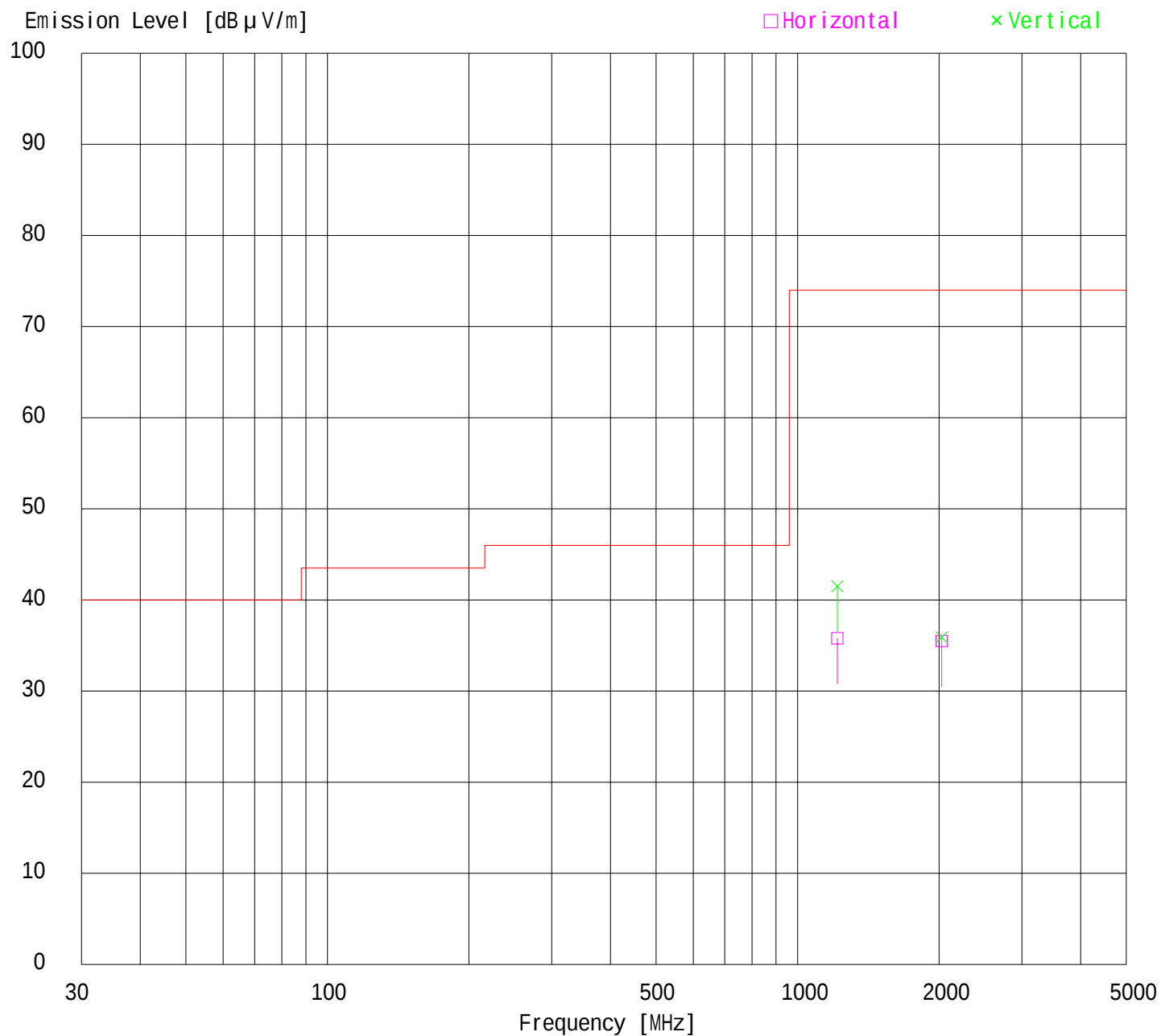
UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 26EE0195-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V594SU
Serial No. : -
Power : AC120V/60Hz
Mode : USB Mode
Remarks :
Date : 12/20/2005
Test Distance : 3 m
Temperature : 22
Humidity : 38 %
Regulation : FCC Part15B CLASS B(Peak Limit / Upper1GHz)

Engineer : Tsubasa Takayama



DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 26EE0195-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V594SU
Serial No. : -
Power : AC120V/60Hz
Mode : USB Mode
Remarks :
Date : 12/20/2005
Test Distance : 3 m
Temperature : 22 Engineer : Tsubasa Takayama
Humidity : 38 %
Regulation : FCC Part15B CLASS B(Average Limit / Upper1GHz)

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
			HOR [dB μ V]	VER [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]			HOR [dB]	VER [dB]
1.	1215.00	BB	41.8	50.9	24.1	40.2	2.0	0.0	27.7	36.8	54.0	26.3	17.2	
2.	2025.00	BB	38.7	38.1	24.5	39.3	2.8	0.0	26.7	26.1	54.0	27.3	27.9	

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.

Except for the above table: adequate margin data below the limits.

ANT.TYPE : 1-5GHz Horn

DATA OF RADIATION TEST

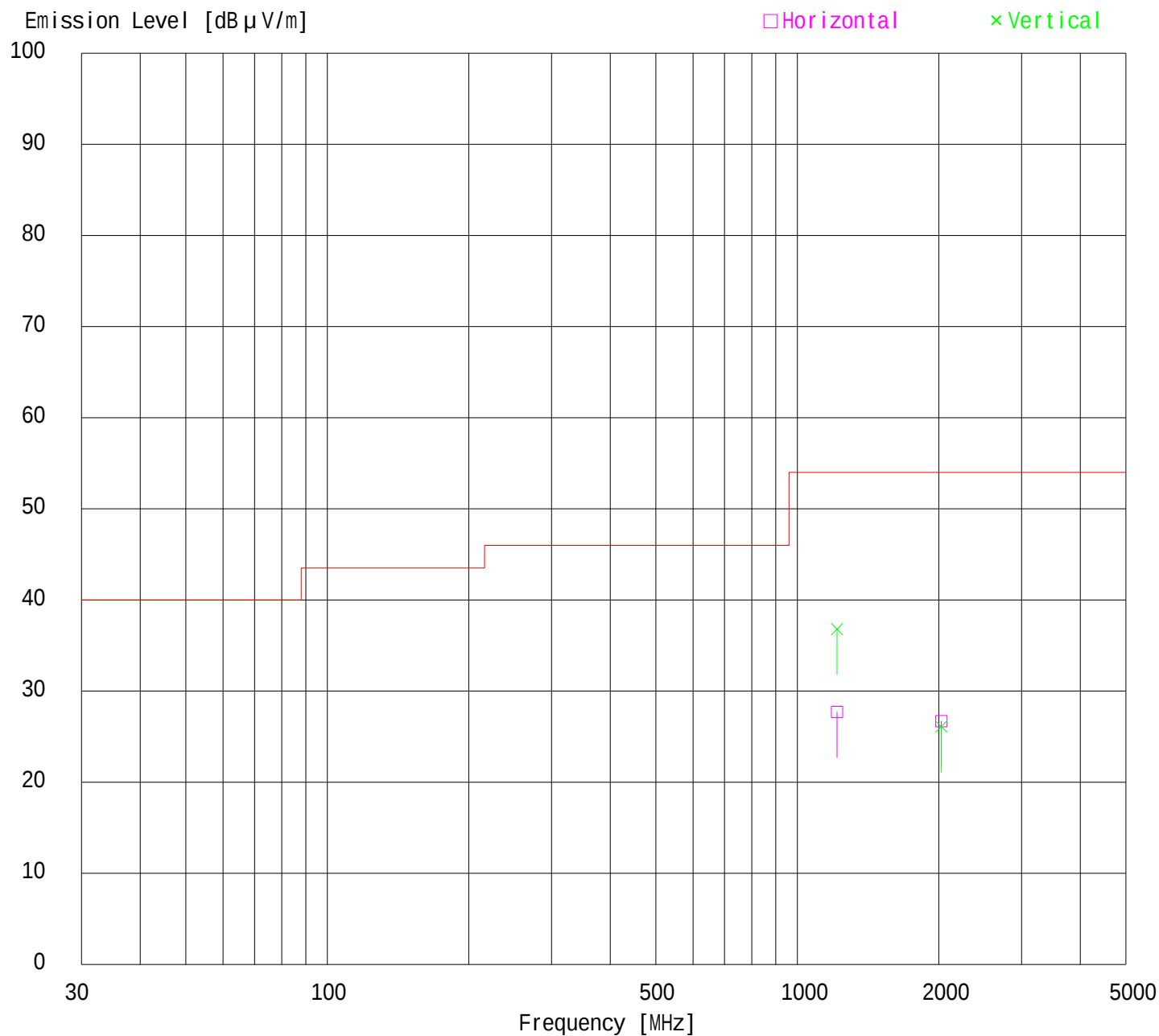
UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 26EE0195-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V594SU
Serial No. : -
Power : AC120V/60Hz
Mode : USB Mode
Remarks :
Date : 12/20/2005
Test Distance : 3 m
Temperature : 22
Humidity : 38 %
Regulation : FCC Part15B CLASS B(Average Limit / Upper1GHz)

Engineer : Tsubasa Takayama



DATA OF ANTENNA TERMINAL TEST

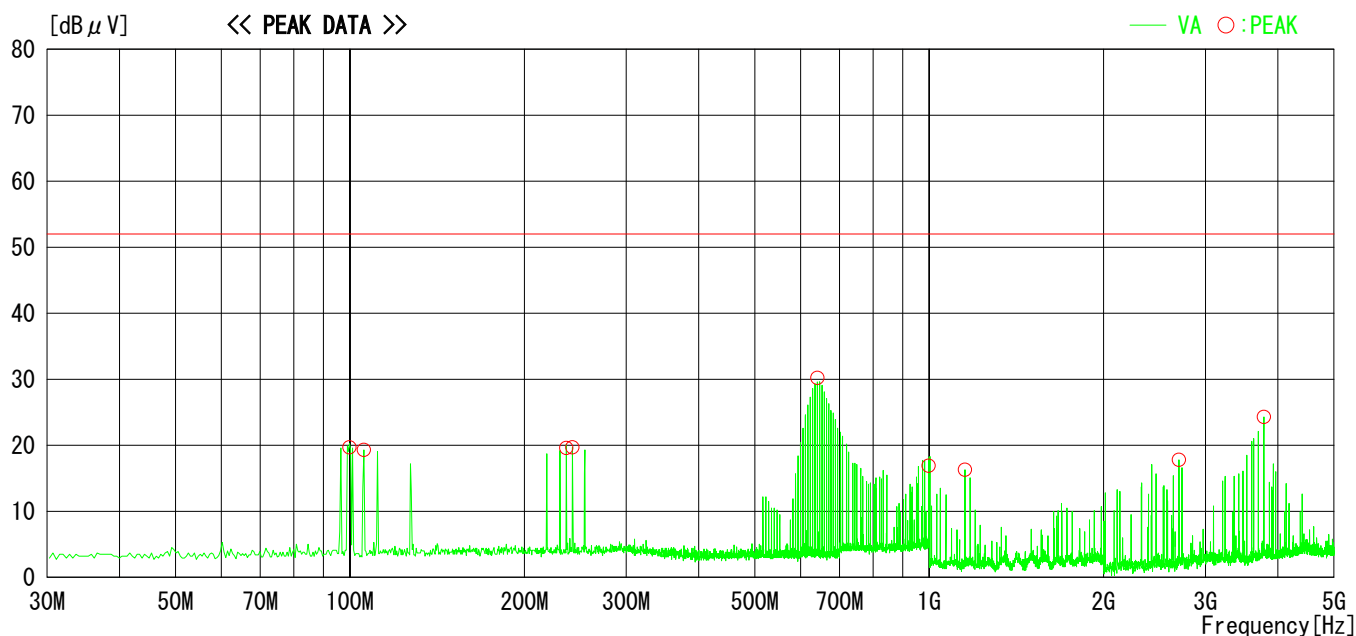
YOKOWA NO.7 S/R

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL NO. : SD-V594SU
OPERATION MODE : TV Tuning Mode

Report No. : 26EE0195-YW-1
DATE : December 27, 2005
REGULATION : FCC Part15 SubpartB
TEST ENGINEER : Tomoyuki.Yamashita

TEMP./HUMID. : 23deg. C/39%

LIMIT : FCC 15B ANTENNA TERMINAL



NO	FREQ [MHz]	READING PEAK [dB μ V]	C. F [dB]	RESULT [dB μ V]	LIMIT PEAK [dB μ V]	MARGIN PEAK [dB]	PHASE
1	99.82113	40.2	-20.5	19.7	52.0	32.3	VA
2	105.72110	39.2	-19.9	19.3	52.0	32.7	VA
3	236.36470	39.5	-19.9	19.6	52.0	32.4	VA
4	242.26480	39.0	-19.3	19.7	52.0	32.3	VA
5	641.42430	49.5	-19.3	30.2	52.0	21.8	VA
6	998.29790	36.8	-19.9	16.9	52.0	35.1	VA
7	1152.84800	47.6	-31.3	16.3	52.0	35.7	VA
8	2699.95300	48.6	-30.8	17.8	52.0	34.2	VA
9	3784.22800	53.3	-29.0	24.3	52.0	27.7	VA

CALCULATION: READING + CORRECTION FACTOR
CORRECTION FACTOR = MATCHING PAD LOSS[dB μ V] + CABLE LOSS[dB μ V]

DATA OF ANTENNA TERMINAL TEST

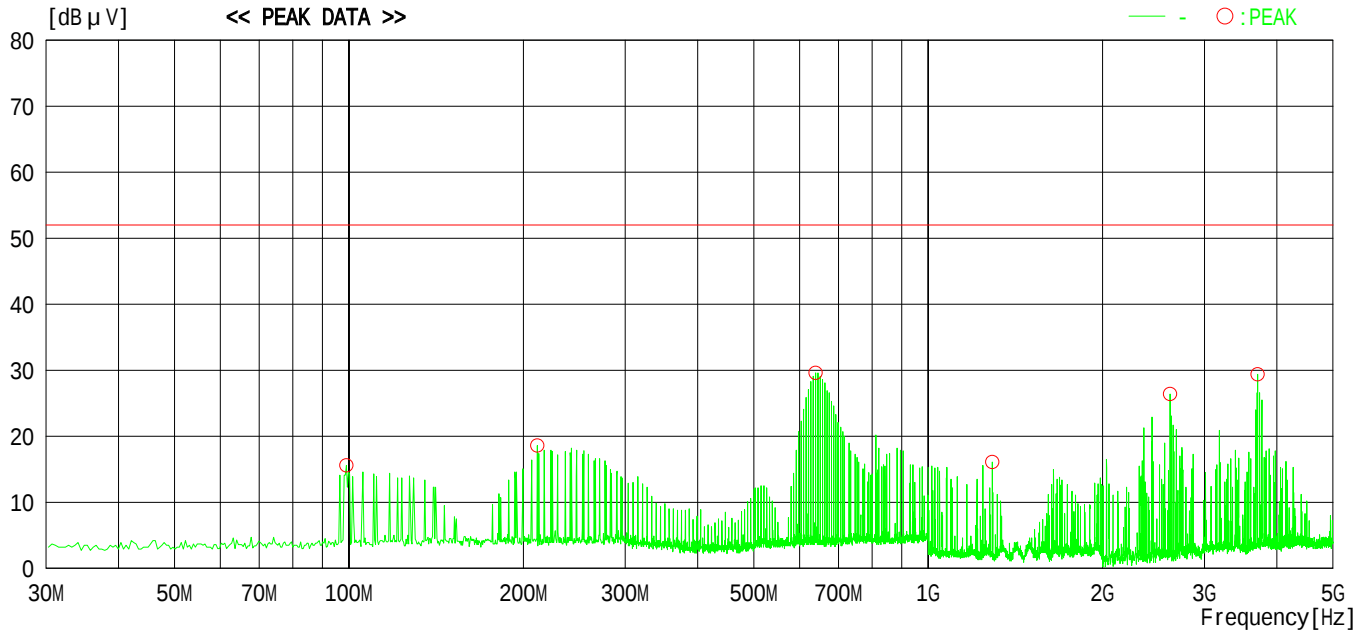
YOKOWA NO.7 S/R

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL NO. : SD-V594SU
OPERATION MODE : CATV Tuning Mode

Report No. : 26EE0195-YW-1
DATE : December 27, 2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tomoyuki Yamashita

TEMP./HUMID. : 23deg.C/39%

LIMIT : FCC 15B ANTENNA TERMINAL



NO	FREQ [MHz]	READING	C.F [dB]	RESULT [dB μV]	LIMIT		MARGIN		PHASE
		PEAK [dB μV]			PEAK [dB μV]	[dB μV]	PEAK [dB]	[dB]	
1	98.97828	35.5	-19.9	15.6	52.0	----	36.4	----	-
2	211.50020	38.0	-19.4	18.6	52.0	----	33.4	----	-
3	639.42430	49.5	-19.9	29.6	52.0	----	22.4	----	-
4	1290.69500	46.8	-30.7	16.1	52.0	----	35.9	----	-
5	2617.10200	55.5	-29.1	26.4	52.0	----	25.6	----	-
6	3704.23400	56.8	-27.4	29.4	52.0	----	22.6	----	-

CALCULATION: READING + CORRECTION FACTOR
CORRECTION FACTOR = MATCHING PAD LOSS[dB μV] + CABLE LOSS[dB μV]

RF Output Level

UL Apex Co.,Ltd.
Yokowa EMC Laboratory

Company : Orion Electric Co., Ltd.
Equipment : DVD/VCR
Model Number : SD-V594SU
Power : 120V/60Hz
Description : TV Reception
Remarks : -

Report Number : 26EE0195-YW-1
Regulation : FCC15B SubpartB
Date : December 27 ,2005
Temp / Humid : 23deg.C/41%
Engineer : Tsubasa Takayama

TV Reception(0dBmV)

Ch	Frequency [MHz]	Meter Reading [dB μ V]	Correction Factor [dB]	Result [dB]	Limits [dB μ V]	Margin [dB]
Video Signal						
3	61.25	84.8	20.2	64.6	69.5	4.9
4	67.25	84.9	20.1	64.8	69.5	4.7
Audio Signal						
3	56.75	70.0	20.3	49.7	56.5	6.8
	65.75	69.1	20.2	48.9	56.5	7.6
4	62.75	69.5	20.2	49.3	56.5	7.2
	71.75	68.4	20.1	48.3	56.5	8.2

TV Reception(25dBmV)

Ch	Frequency [MHz]	Meter Reading [dB μ V]	Correction Factor [dB]	Result [dB]	Limits [dB μ V]	Margin [dB]
Video Signal						
3	61.25	84.8	20.2	64.6	69.5	4.9
4	67.25	85.0	20.1	64.9	69.5	4.6
Audio Signal						
3	56.75	70.1	20.3	49.8	56.5	6.7
	65.75	69.1	20.2	48.9	56.5	7.6
4	62.75	69.5	20.2	49.3	56.5	7.2
	71.75	68.3	20.1	48.2	56.5	8.3

RF Output Level

UL Apex Co.,Ltd.
Yokowa EMC Laboratory

Company : Orion Electric Co., Ltd.
Equipment : DVD/VCR
Model Number : SD-V594SU
Power : 120V/60Hz
Description : AV Input
Remarks : -

Report Number : 26EE0195-YW-1
Regulation : FCC15B SubpartB
Date : December 27 ,2005
Temp / Humid : 23deg.C/41%
Engineer : Tsubasa Takayama

AV Input1(1Vp-p)

Ch	Frequency [MHz]	Meter Reading [dB μ V]	Correction Factor [dB]	Result [dB]	Limits [dB μ V]	Margin [dB]
Video Signal						
3	61.25	84.7	20.2	64.5	69.5	5.0
4	67.25	84.5	20.1	64.4	69.5	5.1
Audio Signal						
3	56.75	69.5	20.3	49.2	56.5	7.3
	65.75	68.3	20.2	48.1	56.5	8.4
4	62.75	69.3	20.2	49.1	56.5	7.4
	71.75	68.4	20.1	48.3	56.5	8.2

AV Input1(5Vp-p)

Ch	Frequency [MHz]	Meter Reading [dB μ V]	Correction Factor [dB]	Result [dB]	Limits [dB μ V]	Margin [dB]
Video Signal						
3	61.25	84.3	20.2	64.1	69.5	5.4
4	67.25	84.1	20.1	64.0	69.5	5.5
Audio Signal						
3	56.75	69.1	20.3	48.8	56.5	7.7
	65.75	68.2	20.2	48.0	56.5	8.5
4	62.75	69.5	20.2	49.3	56.5	7.2
	71.75	68.8	20.1	48.7	56.5	7.8

RF Output Level

UL Apex Co.,Ltd.
Yokowa EMC Laboratory

Company : Orion Electric Co., Ltd.
Equipment : DVD/VCR
Model Number : SD-V594SU
Power : 120V/60Hz
Description : AV Input
Remarks : -

Report Number : 26EE0195-YW-1
Regulation : FCC15B SubpartB
Date : December 27 ,2005
Temp / Humid : 23deg.C/41%
Engineer : Tsubasa Takayama

AV Input2(1Vp-p)

Ch	Frequency [MHz]	Meter Reading [dB μ V]	Correction Factor [dB]	Result [dB]	Limits [dB μ V]	Margin [dB]
Video Signal						
3	61.25	84.5	20.2	64.3	69.5	5.2
4	67.25	84.5	20.1	64.4	69.5	5.1
Audio Signal						
3	56.75	69.8	20.3	49.5	56.5	7.0
	65.75	68.6	20.2	48.4	56.5	8.1
4	62.75	69.5	20.2	49.3	56.5	7.2
	71.75	68.3	20.1	48.2	56.5	8.3

AV Input2(5Vp-p)

Ch	Frequency [MHz]	Meter Reading [dB μ V]	Correction Factor [dB]	Result [dB]	Limits [dB μ V]	Margin [dB]
Video Signal						
3	61.25	84.3	20.2	64.1	69.5	5.4
4	67.25	84.2	20.1	64.1	69.5	5.4
Audio Signal						
3	56.75	69.9	20.3	49.6	56.5	6.9
	65.75	68.4	20.2	48.2	56.5	8.3
4	62.75	69.3	20.2	49.1	56.5	7.4
	71.75	68.1	20.1	48.0	56.5	8.5

RF Output Level

UL Apex Co.,Ltd.
Yokowa EMC Laboratory

Company : Orion Electric Co., Ltd.
Equipment : DVD/VCR
Model Number : SD-V594SU
Power : 120V/60Hz
Description : VCR Playback
Remarks : -

Report Number : 26EE0195-YW-1
Regulation : FCC15B SubpartB
Date : December 27 ,2005
Temp / Humid : 23deg.C/41%
Engineer : Tsubasa Takayama

Ch	Frequency [MHz]	Meter Reading [dB μ V]	Correction Factor [dB]	Result [dB]	Limits [dB μ V]	Margin [dB]
Video Signal						
3	61.25	83.3	20.2	63.1	69.5	6.4
4	67.25	83.9	20.1	63.8	69.5	5.7
Audio Signal						
3	56.75	70.3	20.3	50.0	56.5	6.5
	65.75	69.1	20.2	48.9	56.5	7.6
4	62.75	69.4	20.2	49.2	56.5	7.3
	71.75	68.2	20.1	48.1	56.5	8.4

RF Output Level

UL Apex Co.,Ltd.
Yokowa EMC Laboratory

Company : Orion Electric Co., Ltd.
Equipment : DVD/VCR
Model Number : SD-V594SU
Power : 120V/60Hz
Description : DVD Play
Remarks : -

Report Number : 26EE0195-YW-1
Regulation : FCC15B SubpartB
Date : December 27 ,2005
Temp / Humid : 23deg.C/41%
Engineer : Tsubasa Takayama

Ch	Frequency [MHz]	Meter Reading [dB μ V]	Correction Factor [dB]	Result [dB]	Limits [dB μ V]	Margin [dB]
Video Signal						
3	61.25	85.0	20.2	64.8	69.5	4.7
4	67.25	84.7	20.1	64.6	69.5	4.9
Audio Signal						
3	56.75	69.5	20.3	49.2	56.5	7.3
	65.75	68.4	20.2	48.2	56.5	8.3
4	62.75	69.7	20.2	49.5	56.5	7.0
	71.75	68.7	20.1	48.6	56.5	7.9

RF Output Level

UL Apex Co.,Ltd.
Yokowa EMC Laboratory

Company	: Orion Electric Co., Ltd.	Report Number	: 26EE0195-YW-1
Equipment	: DVD/VCR	Regulation	: FCC15B SubpartB
Model Number	: SD-V594SU	Date	: January 11 ,2006
Power	: 120V/60Hz	Temp / Humid	: 21deg.C/43%
Description	: USB Play	Engineer	: Tsubasa Takayama
Remarks	: -		

Ch	Frequency [MHz]	Meter Reading [dB μ V]	Correction Factor [dB]	Result [dB]	Limits [dB μ V]	Margin [dB]
Video Signal						
3	61.25	82.9	20.2	62.7	69.5	6.8
4	67.25	81.9	20.1	61.8	69.5	7.7
Audio Signal						
3	56.75	67.7	20.3	47.4	56.5	9.1
	65.75	66.7	20.2	46.5	56.5	10.0
4	62.75	66.9	20.2	46.7	56.5	9.8
	71.75	65.7	20.1	45.6	56.5	10.9

DATA OF RF SPURIOUS TEST

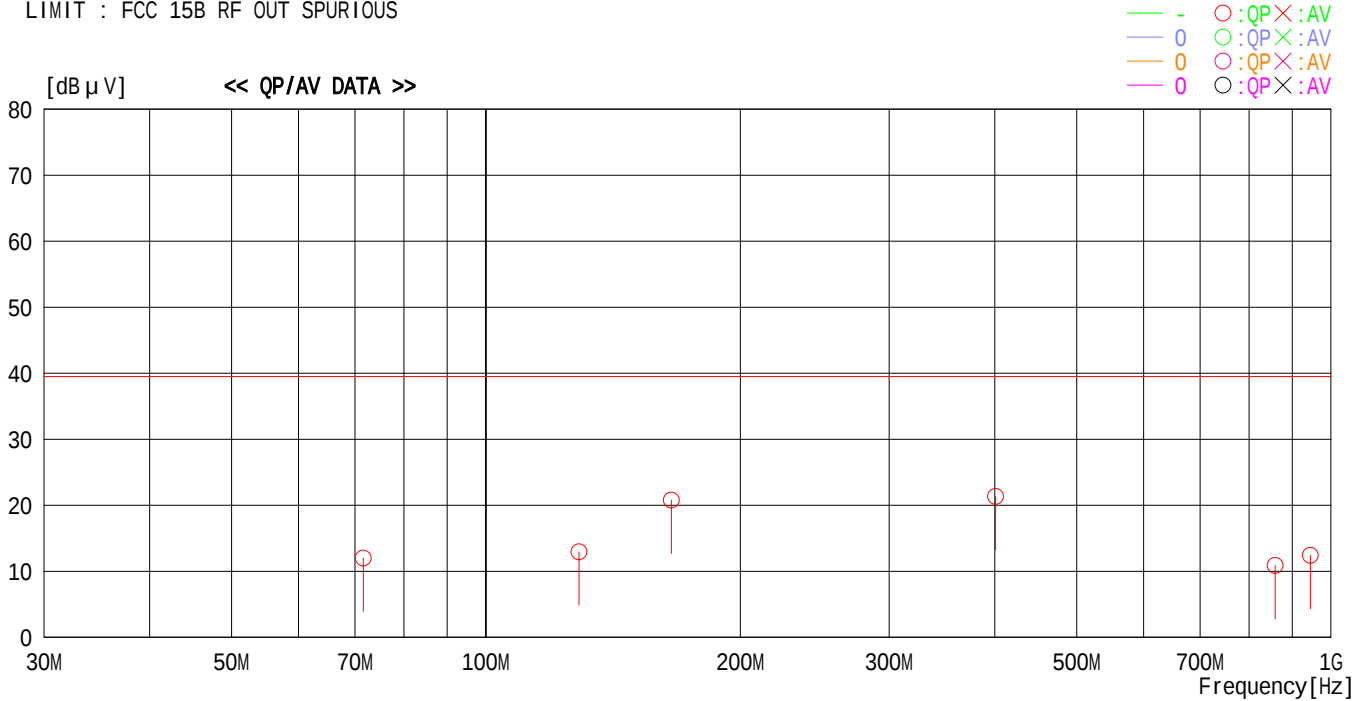
UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : SD-V594SU
TEMP./HUMID. : 20 /39%

REPORT NO : 26EE0195-YW-1
DATE : December 28 ,2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tomoyuki Yamashita

OPERATION MODE : TV Reception+Rec(0dBmV) :3ch

LIMIT : FCC 15B RF OUT SPURIOUS



CALCULATION: READING+MATCHING PAD LOSS+CABLE LOSS-AMP.GAIN

DATA OF RF SPURIOUS TEST

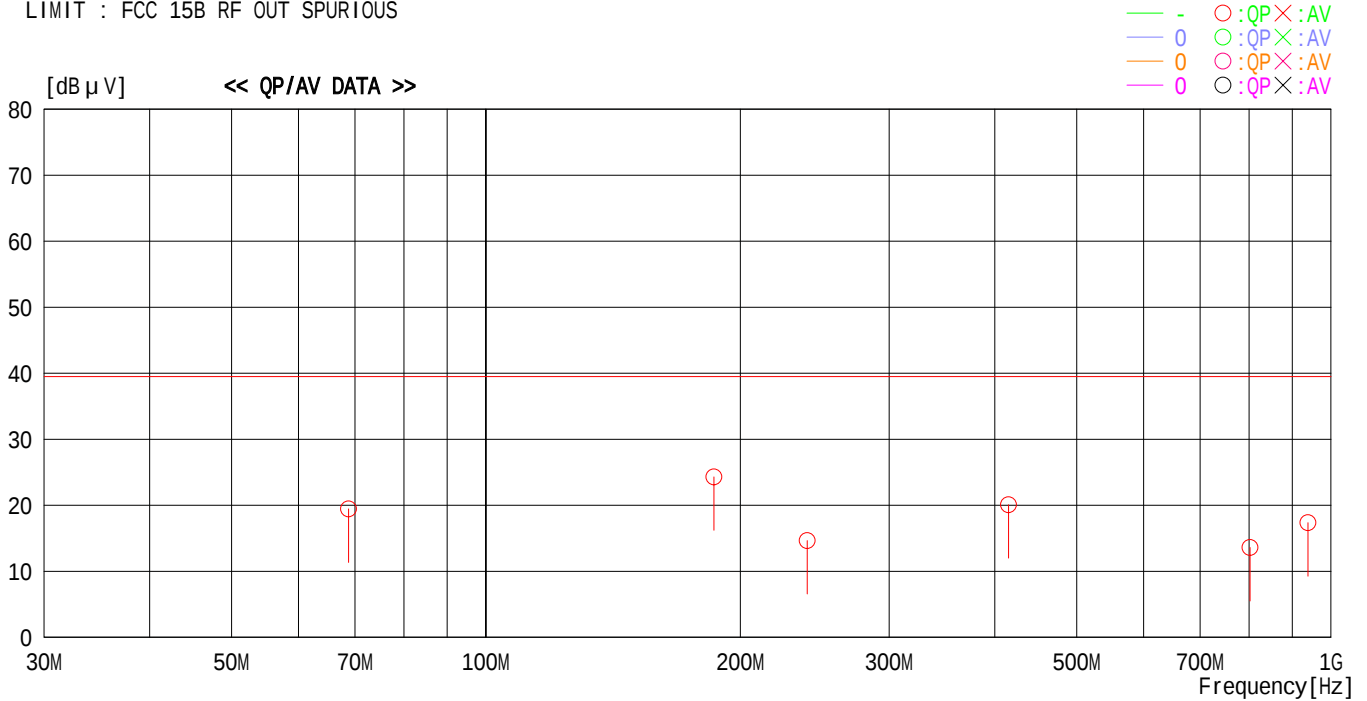
UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : SD-V594SU
TEMP./HUMID. : 20 /39%

REPORT NO : 26EE0195-YW-1
DATE : December 28 ,2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tomoyuki Yamashita

OPERATION MODE : TV Reception+Rec(25dBmV) :3ch

LIMIT : FCC 15B RF OUT SPURIOUS



NO	FREQ [MHz]	READING		C.F [dB]	RESULT		LIMIT		MARGIN		PHASE
		PEAK [dB μ V]	[dB μ V]		PEAK [dB μ V]	[dB μ V]	PEAK [dB μ V]	[dB μ V]	PEAK [dB]	[dB]	
1	68.7900	39.5	----	-20.1	19.4	----	39.5	----	20.1	----	-
2	186.1300	43.8	----	-19.5	24.3	----	39.5	----	15.2	----	-
3	239.9800	33.9	----	-19.3	14.6	----	39.5	----	24.9	----	-
4	415.2300	39.9	----	-19.8	20.1	----	39.5	----	19.4	----	-
5	801.8200	33.2	----	-19.6	13.6	----	39.5	----	25.9	----	-
6	939.2600	36.3	----	-18.9	17.4	----	39.5	----	22.2	----	-

CALCULATION: READING+MATCHING PAD LOSS+CABLE LOSS-AMP.GAIN

DATA OF RF SPURIOUS TEST

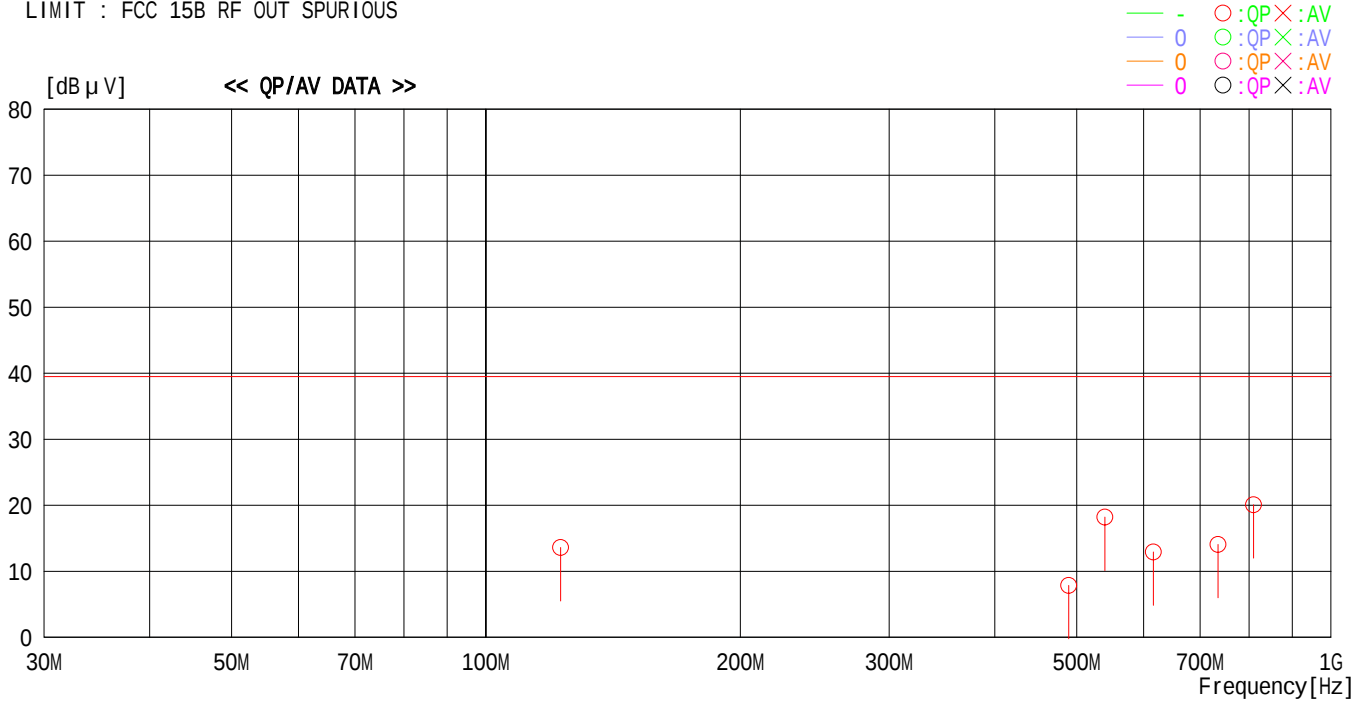
UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : SD-V594SU
TEMP./HUMID. : 20 /39%

REPORT NO : 26EE0195-YW-1
DATE : December 28 ,2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tomoyuki Yamashita

OPERATION MODE : AV Input1+Rec(1Vp-p) :3ch

LIMIT : FCC 15B RF OUT SPURIOUS



NO	FREQ [MHz]	READING PEAK [dB μ V]		C.F [dB]	RESULT PEAK [dB μ V]		LIMIT PEAK [dB μ V]		MARGIN PEAK [dB]		PHASE
1	122.5300	33.4	----	-19.8	13.6	----	39.5	----	25.9	----	-
2	489.3600	27.7	----	-19.8	7.9	----	39.5	----	31.6	----	-
3	539.9900	38.0	----	-19.8	18.2	----	39.5	----	21.3	----	-
4	616.2400	32.7	----	-19.8	12.9	----	39.5	----	26.6	----	-
5	735.0700	33.7	----	-19.6	14.1	----	39.5	----	25.4	----	-
6	810.0000	39.7	----	-19.6	20.1	----	39.5	----	19.4	----	-

CALCULATION: READING+MATCHING PAD LOSS+CABLE LOSS-AMP.GAIN

DATA OF RF SPURIOUS TEST

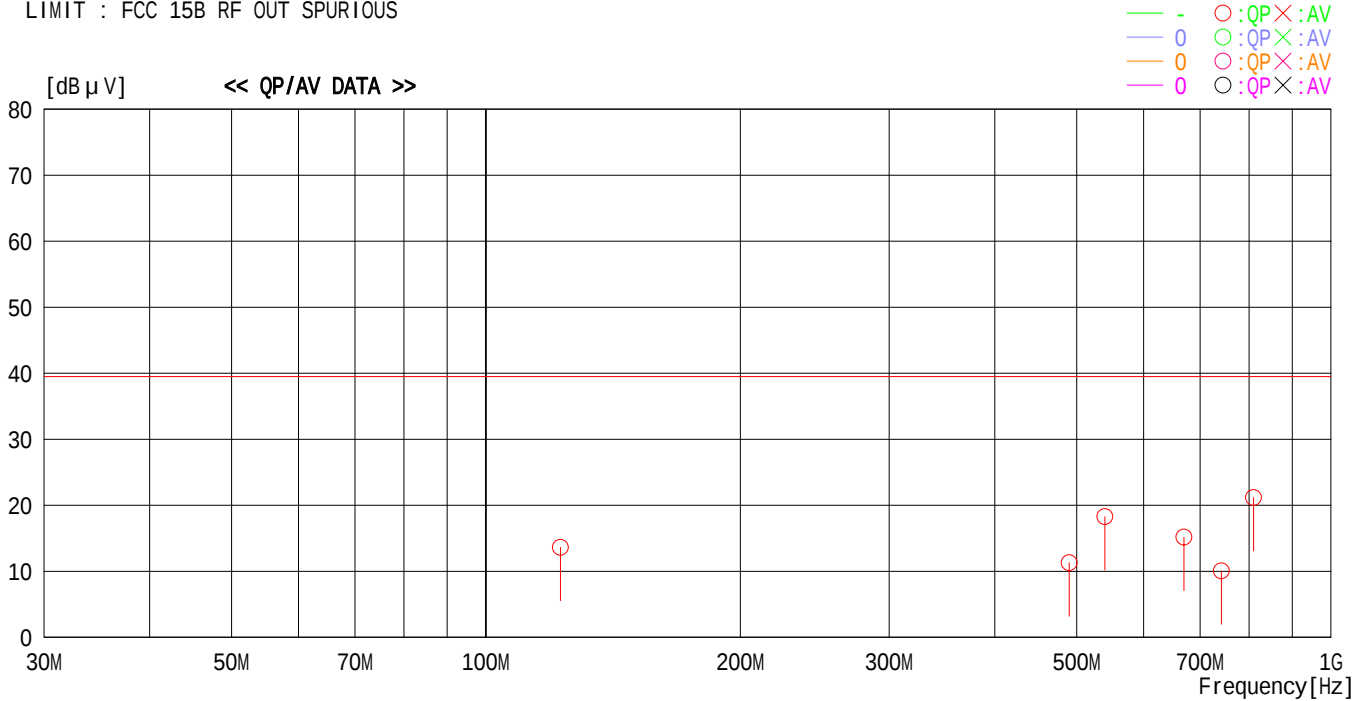
UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : SD-V594SU
TEMP./HUMID. : 20 /39%

REPORT NO : 26EE0195-YW-1
DATE : December 28 ,2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tomoyuki Yamashita

OPERATION MODE : AV Input1+Rec(5Vp-p) :3ch

LIMIT : FCC 15B RF OUT SPURIOUS



NO	FREQ [MHz]	READING PEAK [dB μ V]	READING [dB μ V]	C.F [dB]	RESULT PEAK [dB μ V]	RESULT [dB μ V]	LIMIT PEAK [dB μ V]	LIMIT [dB μ V]	MARGIN PEAK [dB]	MARGIN [dB]	PHASE
1	122.5000	33.4	----	-19.8	13.6	----	39.5	----	25.9	----	-
2	490.0200	31.1	----	-19.8	11.3	----	39.5	----	28.2	----	-
3	540.0000	38.1	----	-19.8	18.3	----	39.5	----	21.2	----	-
4	670.0400	35.0	----	-19.8	15.2	----	39.5	----	24.3	----	-
5	741.6700	29.7	----	-19.6	10.1	----	39.5	----	29.4	----	-
6	809.9800	40.8	----	-19.6	21.2	----	39.5	----	18.3	----	-

CALCULATION: READING+MATCHING PAD LOSS+CABLE LOSS-AMP.GAIN

DATA OF RF SPURIOUS TEST

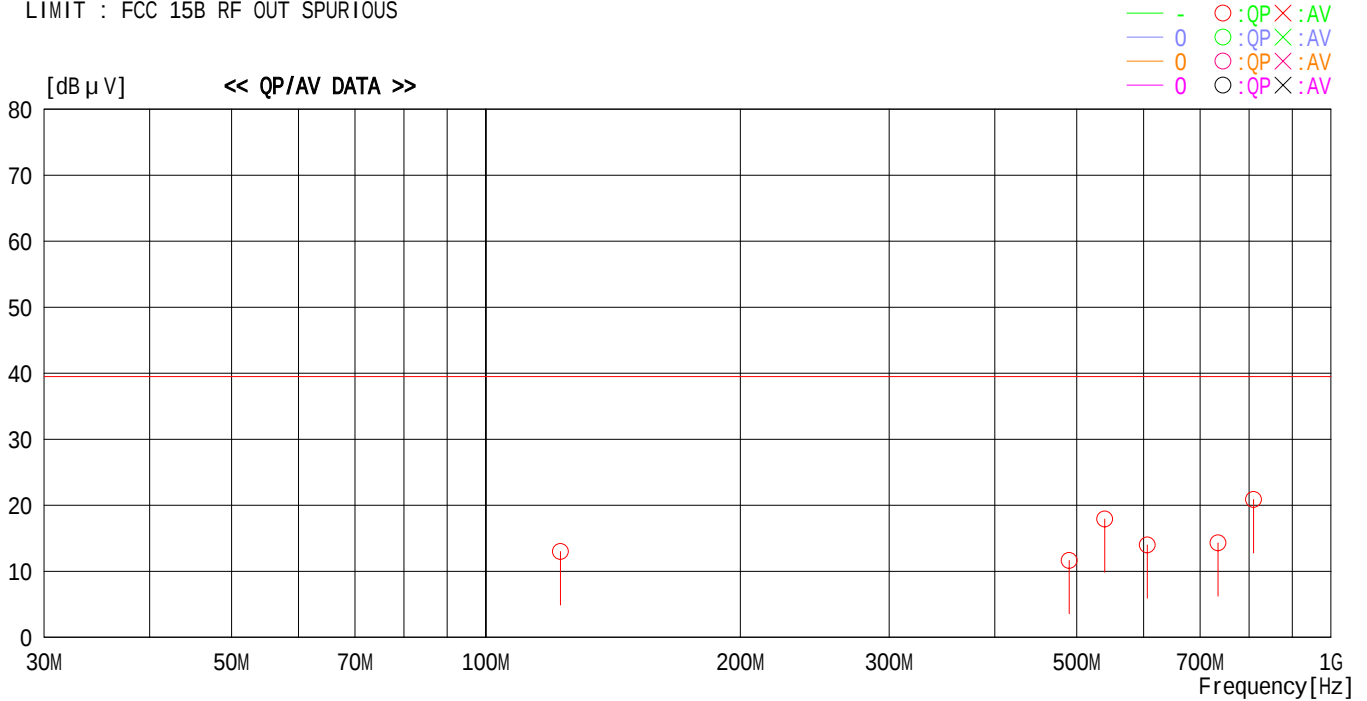
UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : SD-V594SU
TEMP./HUMID. : 20 /39%

REPORT NO : 26EE0195-YW-1
DATE : December 28 ,2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tomoyuki Yamashita

OPERATION MODE : AV Input2+Rec(1Vp-p) :3ch

LIMIT : FCC 15B RF OUT SPURIOUS



CALCULATION: READING+MATCHING PAD LOSS+CABLE LOSS-AMP.GAIN

DATA OF RF SPURIOUS TEST

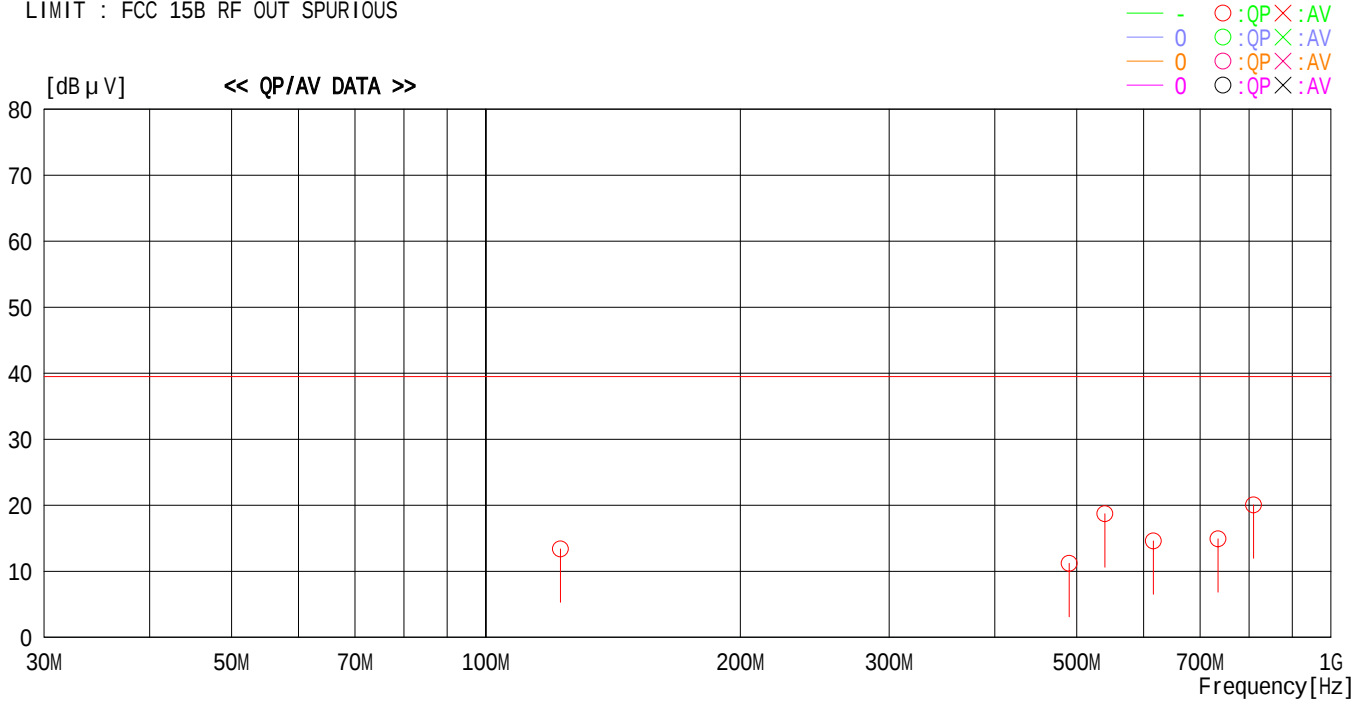
UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : SD-V594SU
TEMP./HUMID. : 20 /39%

REPORT NO : 26EE0195-YW-1
DATE : December 28 ,2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tomoyuki Yamashita

OPERATION MODE : AV Input2+Rec(5Vp-p) :3ch

LIMIT : FCC 15B RF OUT SPURIOUS



CALCULATION:READING+MATCHING PAD LOSS+CABLE LOSS-AMP.GAIN

DATA OF RF SPURIOUS TEST

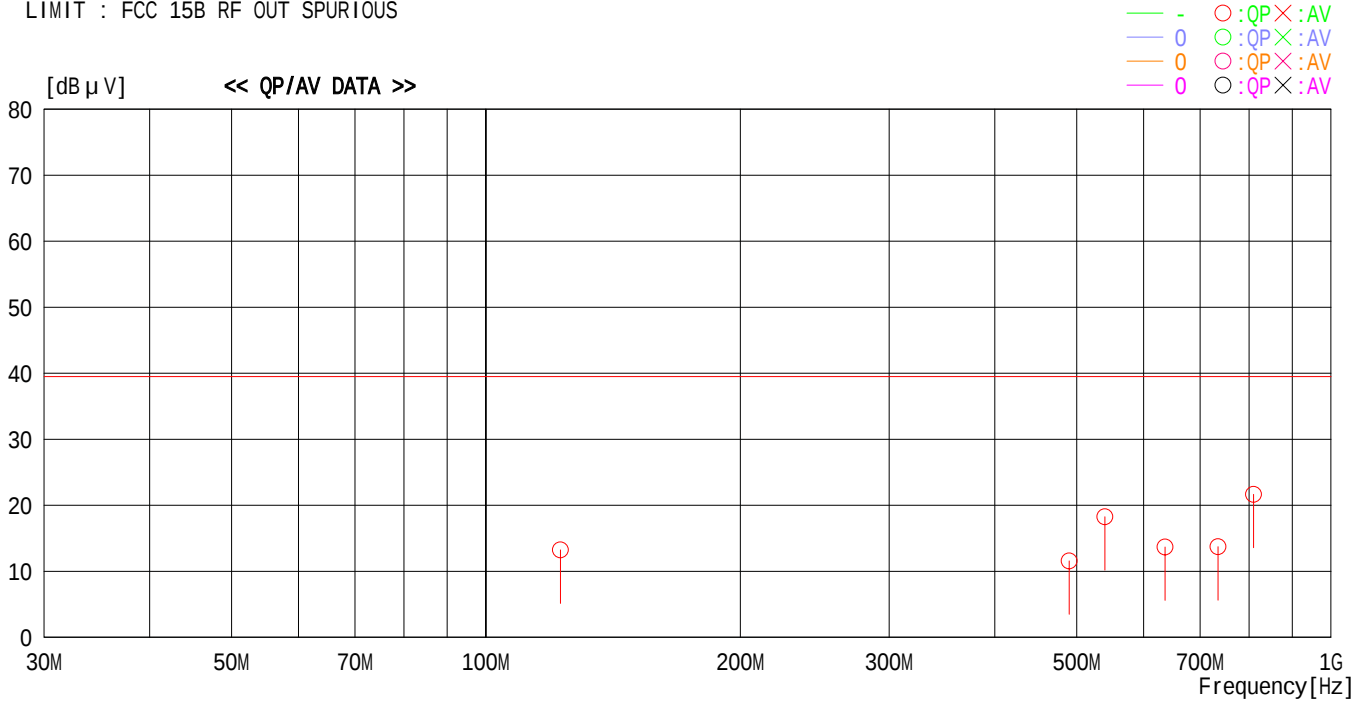
UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : SD-V594SU
TEMP./HUMID. : 20 /39%

REPORT NO : 26EE0195-YW-1
DATE : December 28 ,2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tomoyuki Yamashita

OPERATION MODE : VCR PLAYBACK :3ch

LIMIT : FCC 15B RF OUT SPURIOUS



CALCULATION: READING+MATCHING PAD LOSS+CABLE LOSS-AMP.GAIN

DATA OF RF SPURIOUS TEST

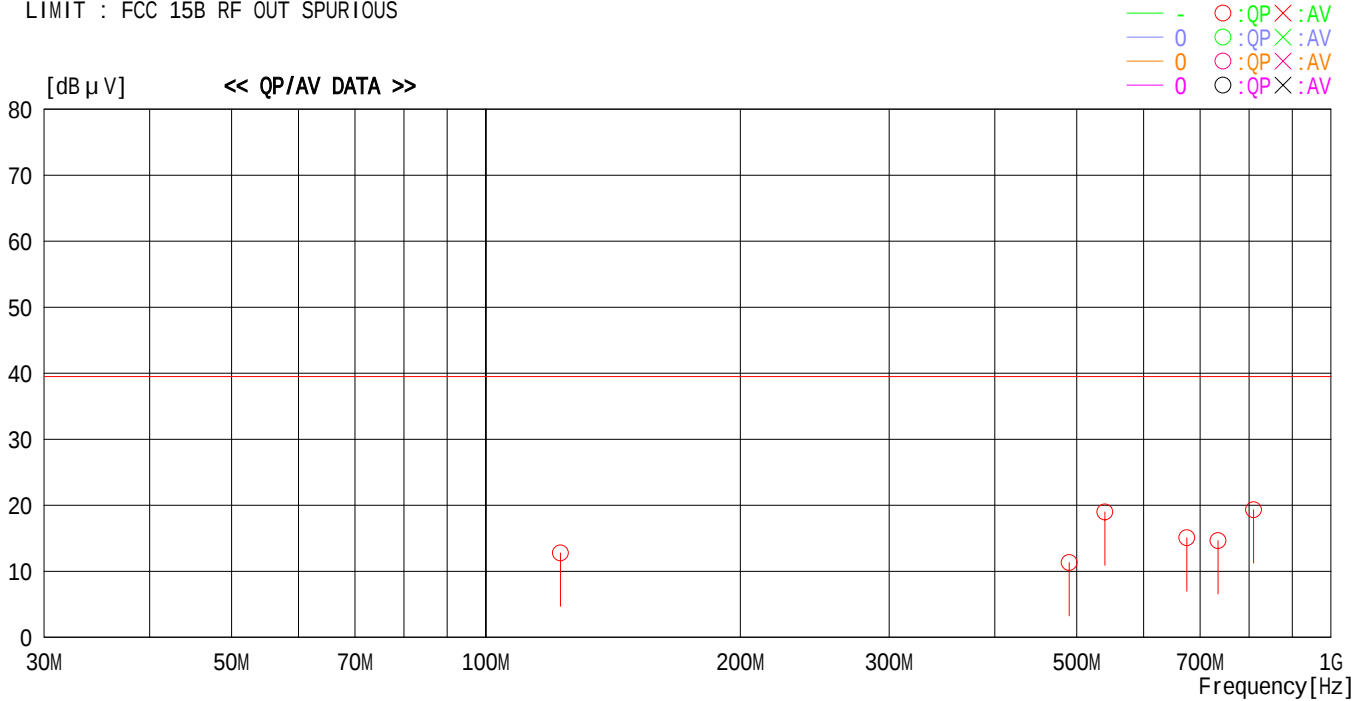
UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : SD-V594SU
TEMP./HUMID. : 20 /39%

REPORT NO : 26EE0195-YW-1
DATE : December 28 ,2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tomoyuki Yamashita

OPERATION MODE : HDMI (DVD) :3ch

LIMIT : FCC 15B RF OUT SPURIOUS



CALCULATION: READING+MATCHING PAD LOSS+CABLE LOSS-AMP.GAIN

DATA OF RF SPURIOUS TEST

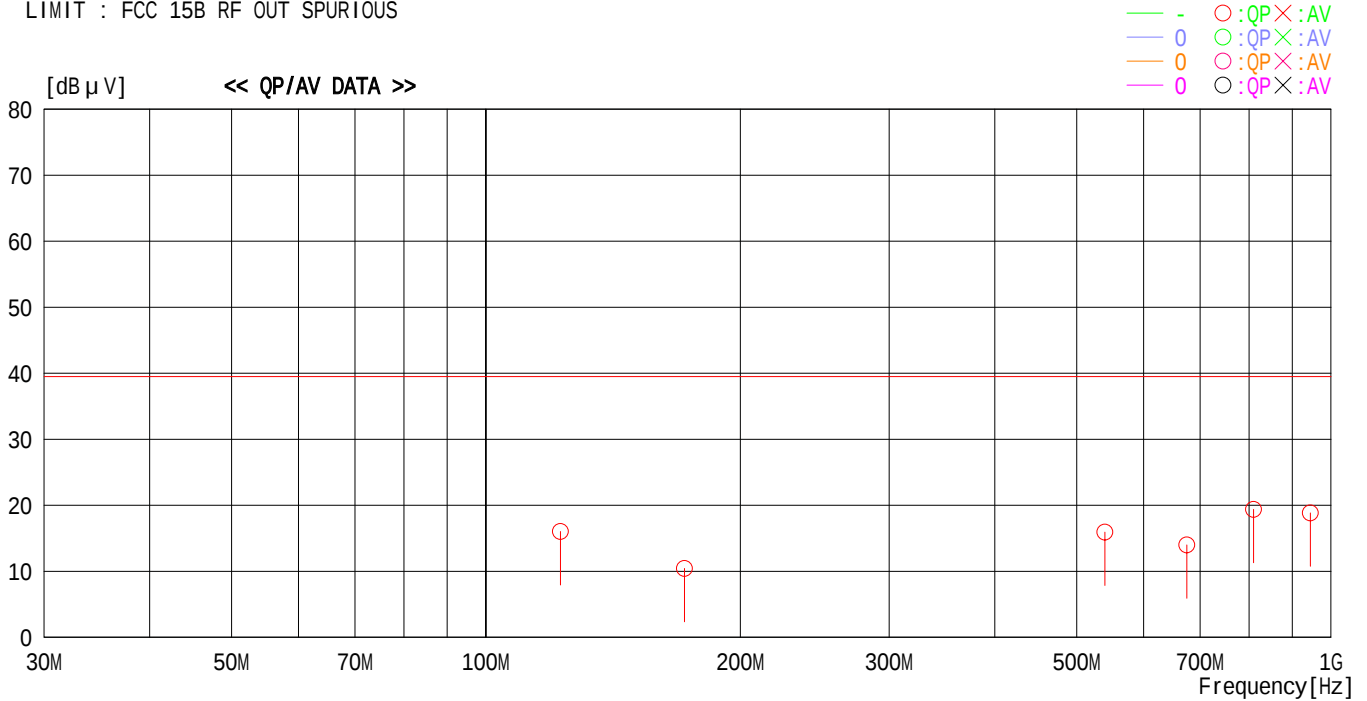
UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : SD-V594SU
TEMP./HUMID. : 20 /39%

REPORT NO : 26EE0195-YW-1
DATE : January 11 ,2006
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tomoyuki Yamashita

OPERATION MODE : USB :3ch

LIMIT : FCC 15B RF OUT SPURIOUS



CALCULATION: READING+MATCHING PAD LOSS+CABLE LOSS-AMP.GAIN

DATA OF RF SPURIOUS TEST

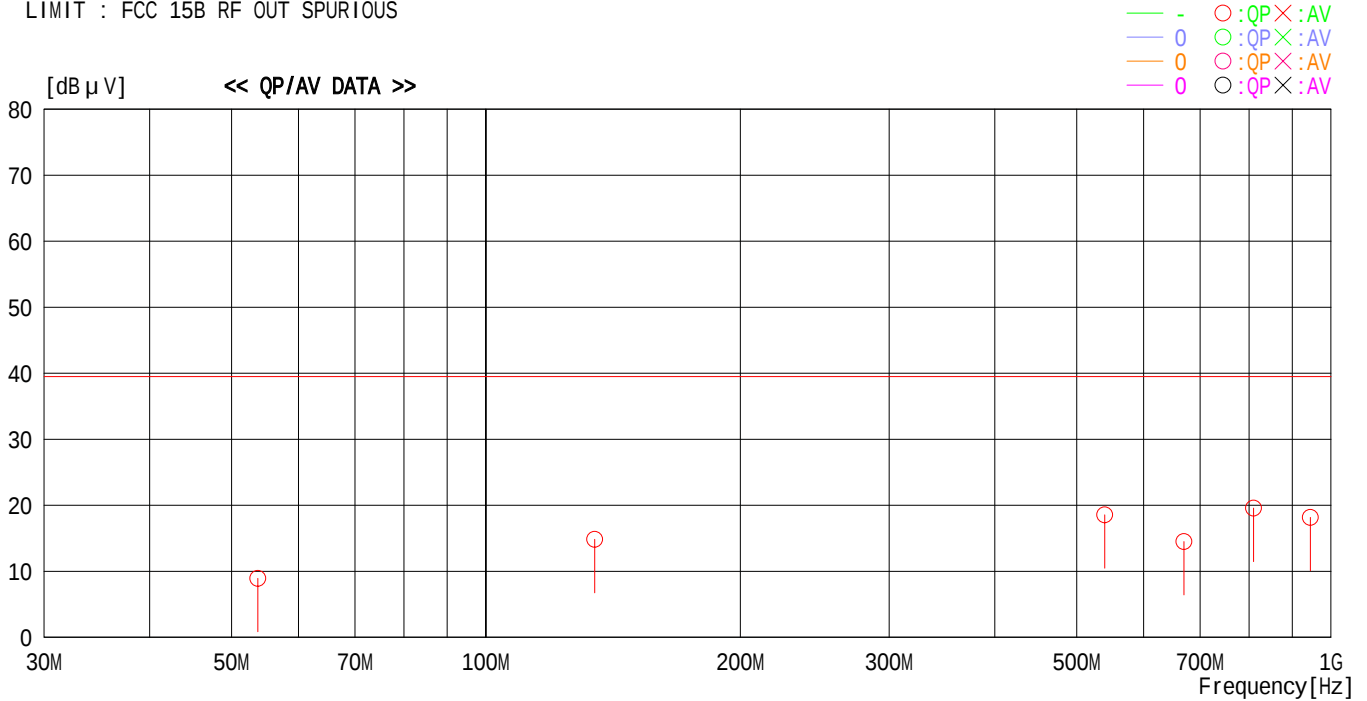
UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : SD-V594SU
TEMP./HUMID. : 20 /39%

REPORT NO : 26EE0195-YW-1
DATE : December 28 ,2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tomoyuki Yamashita

OPERATION MODE : TV Reception+Rec(0dBmV) :4ch

LIMIT : FCC 15B RF OUT SPURIOUS



NO	FREQ [MHz]	READING PEAK [dB μV]		C.F [dB]	RESULT PEAK [dB μV]		LIMIT PEAK [dB μV]		MARGIN PEAK [dB]		PHASE
1	53.7100	29.2	----	-20.3	8.9	----	39.5	----	30.6	----	-
2	134.4900	34.6	----	-19.8	14.8	----	39.5	----	24.7	----	-
3	539.9800	38.3	----	-19.8	18.5	----	39.5	----	21.0	----	-
4	670.0100	34.3	----	-19.8	14.5	----	39.5	----	25.0	----	-
5	810.0000	39.2	----	-19.6	19.6	----	39.5	----	19.9	----	-
6	945.0000	37.0	----	-18.8	18.2	----	39.5	----	21.3	----	-

CALCULATION: READING+MATCHING PAD LOSS+CABLE LOSS-AMP.GAIN

DATA OF RF SPURIOUS TEST

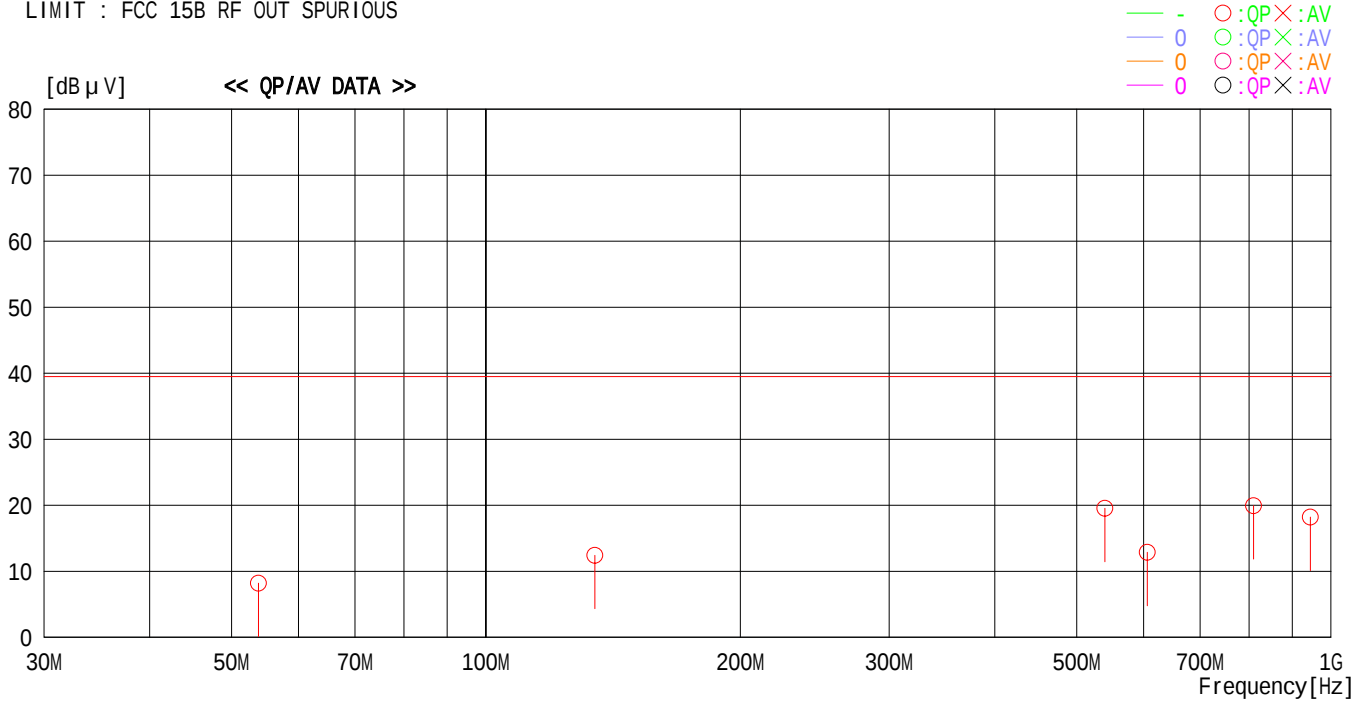
UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : SD-V594SU
TEMP./HUMID. : 20 /39%

REPORT NO : 26EE0195-YW-1
DATE : December 28 ,2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tomoyuki Yamashita

OPERATION MODE : TV Reception+Rec(25dBmV) :4ch

LIMIT : FCC 15B RF OUT SPURIOUS



CALCULATION: READING+MATCHING PAD LOSS+CABLE LOSS-AMP.GAIN

DATA OF RF SPURIOUS TEST

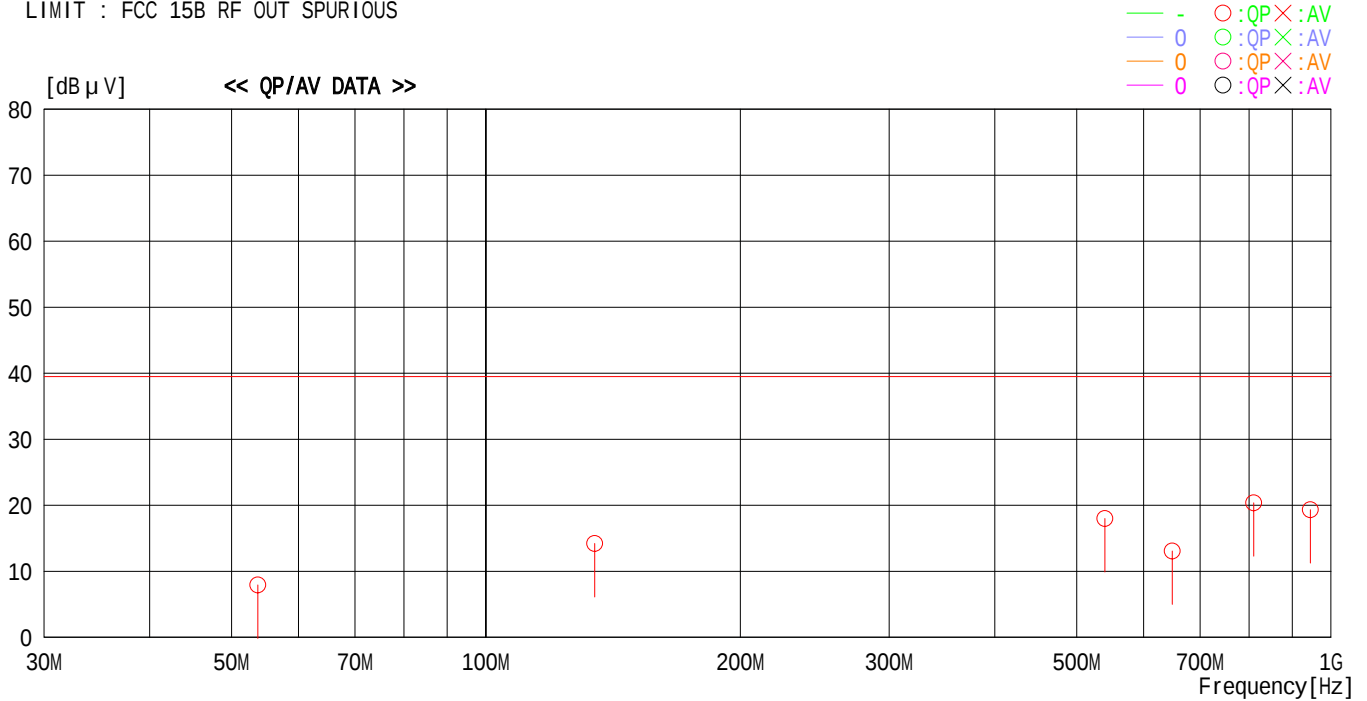
UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : SD-V594SU
TEMP./HUMID. : 20 /39%

REPORT NO : 26EE0195-YW-1
DATE : December 28 ,2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tomoyuki Yamashita

OPERATION MODE : AV Input1+ Rec(1Vp-p):4ch

LIMIT : FCC 15B RF OUT SPURIOUS



NO	FREQ [MHz]	READING PEAK [dB μ V]	READING [dB μ V]	C.F [dB]	RESULT PEAK [dB μ V]	RESULT [dB μ V]	LIMIT PEAK [dB μ V]	LIMIT [dB μ V]	MARGIN PEAK [dB]	MARGIN [dB]	PHASE
1	53.7200	28.2	----	-20.3	7.9	----	39.5	----	31.6	----	-
2	134.4900	34.0	----	-19.8	14.2	----	39.5	----	25.3	----	-
3	540.0000	37.8	----	-19.8	18.0	----	39.5	----	21.5	----	-
4	648.7400	32.9	----	-19.8	13.1	----	39.5	----	26.4	----	-
5	810.0500	40.0	----	-19.6	20.4	----	39.5	----	19.1	----	-
6	945.0200	38.1	----	-18.8	19.3	----	39.5	----	20.2	----	-

CALCULATION: READING+MATCHING PAD LOSS+CABLE LOSS-AMP.GAIN

DATA OF RF SPURIOUS TEST

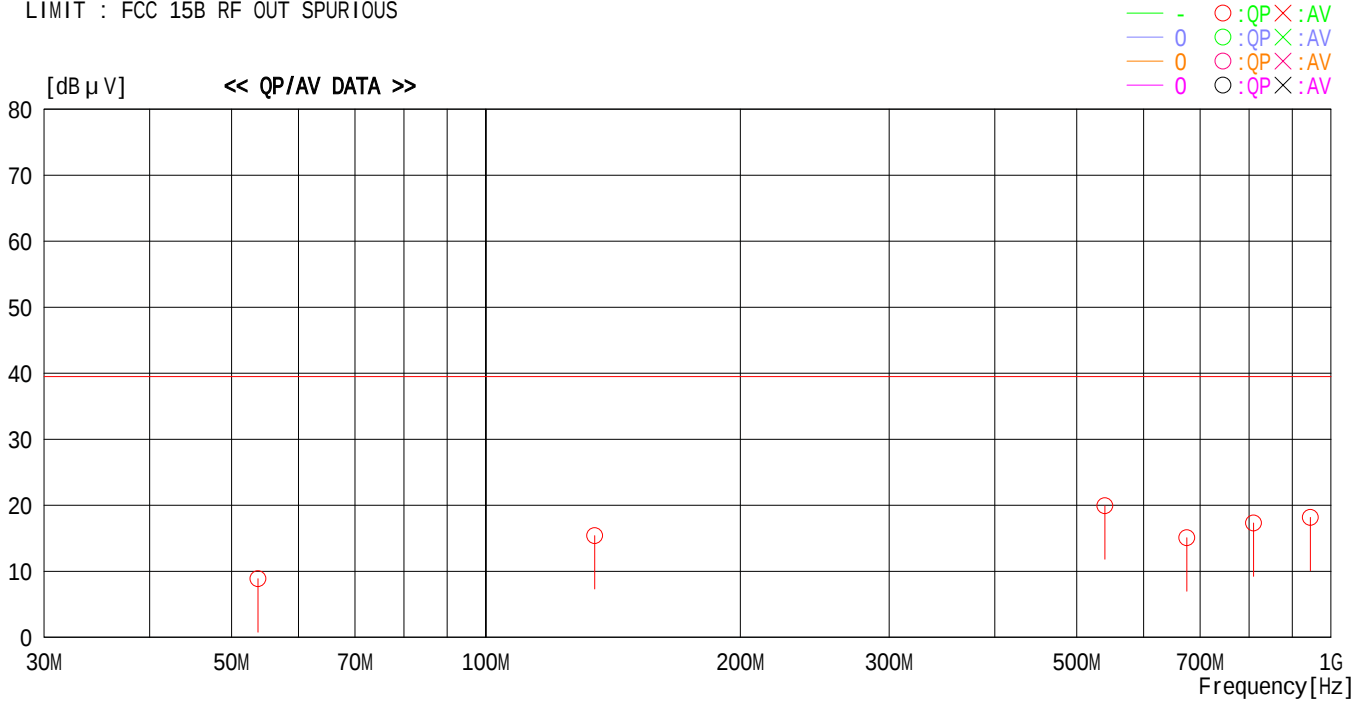
UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : SD-V594SU
TEMP./HUMID. : 20 /39%

REPORT NO : 26EE0195-YW-1
DATE : December 28 ,2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tomoyuki Yamashita

OPERATION MODE : AV Input1+ Rec(5Vp-p):4ch

LIMIT : FCC 15B RF OUT SPURIOUS



CALCULATION: READING+MATCHING PAD LOSS+CABLE LOSS-AMP.GAIN

DATA OF RF SPURIOUS TEST

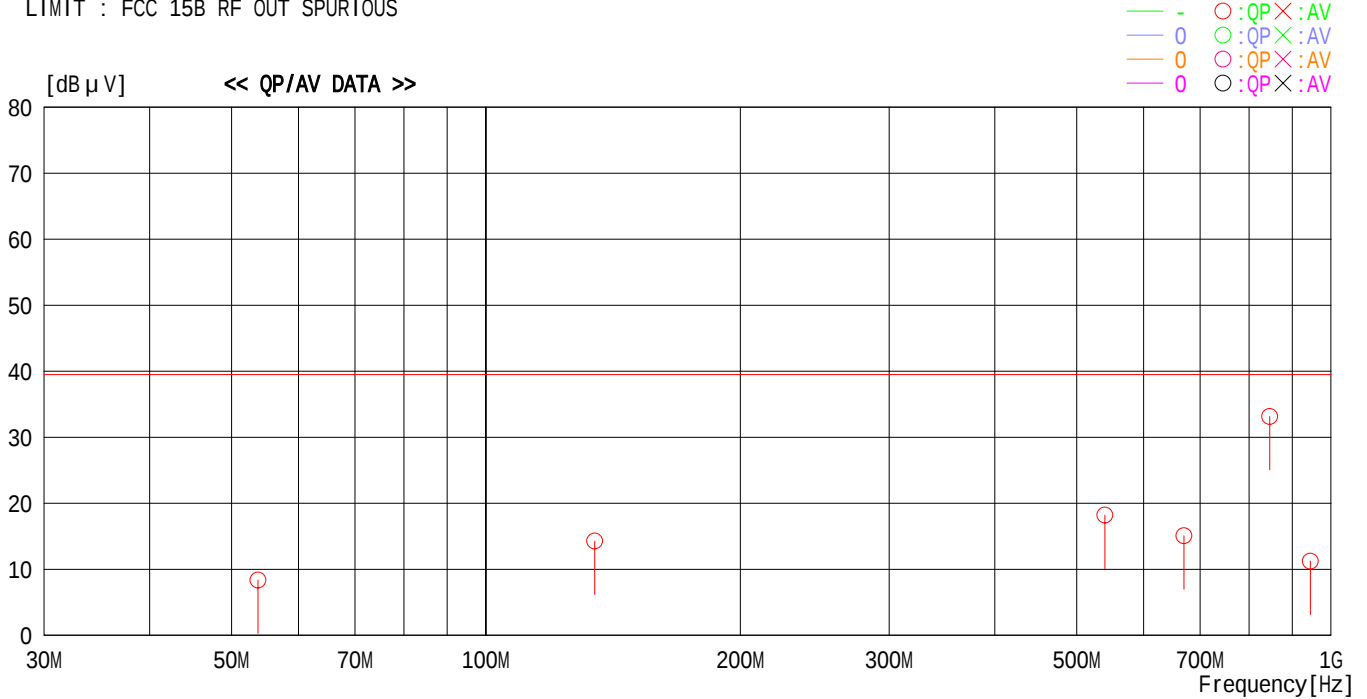
UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : SD-V594SU
TEMP./HUMID. : 20 /39%

REPORT NO : 26EE0195-YW-1
DATE : December 28 ,2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tomoyuki Yamashita

OPERATION MODE : AV Input2+ Rec(1Vp-p):4ch

LIMIT : FCC 15B RF OUT SPURIOUS



CALCULATION: READING+MATCHING PAD LOSS+CABLE LOSS-AMP.GAIN

DATA OF RF SPURIOUS TEST

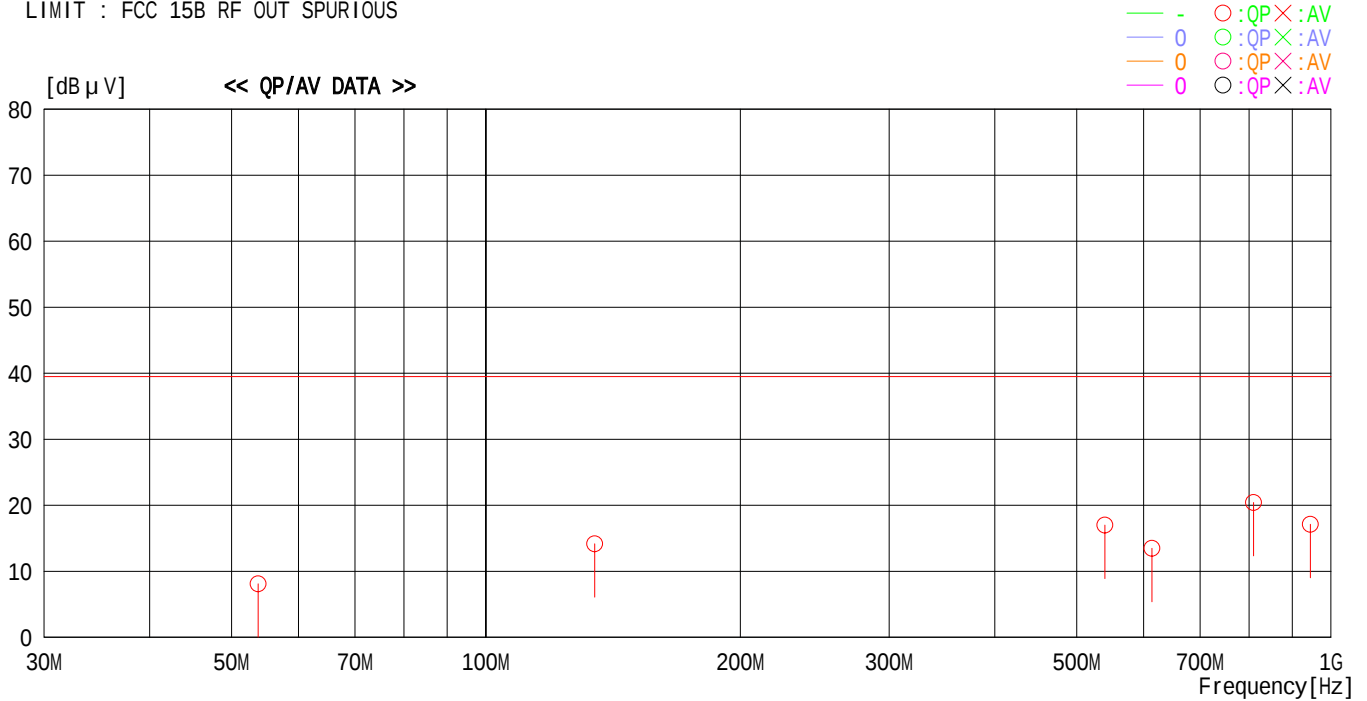
UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : SD-V594SU
TEMP./HUMID. : 20 /39%

REPORT NO : 26EE0195-YW-1
DATE : December 28 ,2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tomoyuki Yamashita

OPERATION MODE : AV Input2+ Rec(5Vp-p):4ch

LIMIT : FCC 15B RF OUT SPURIOUS



CALCULATION: READING+MATCHING PAD LOSS+CABLE LOSS-AMP.GAIN

DATA OF RF SPURIOUS TEST

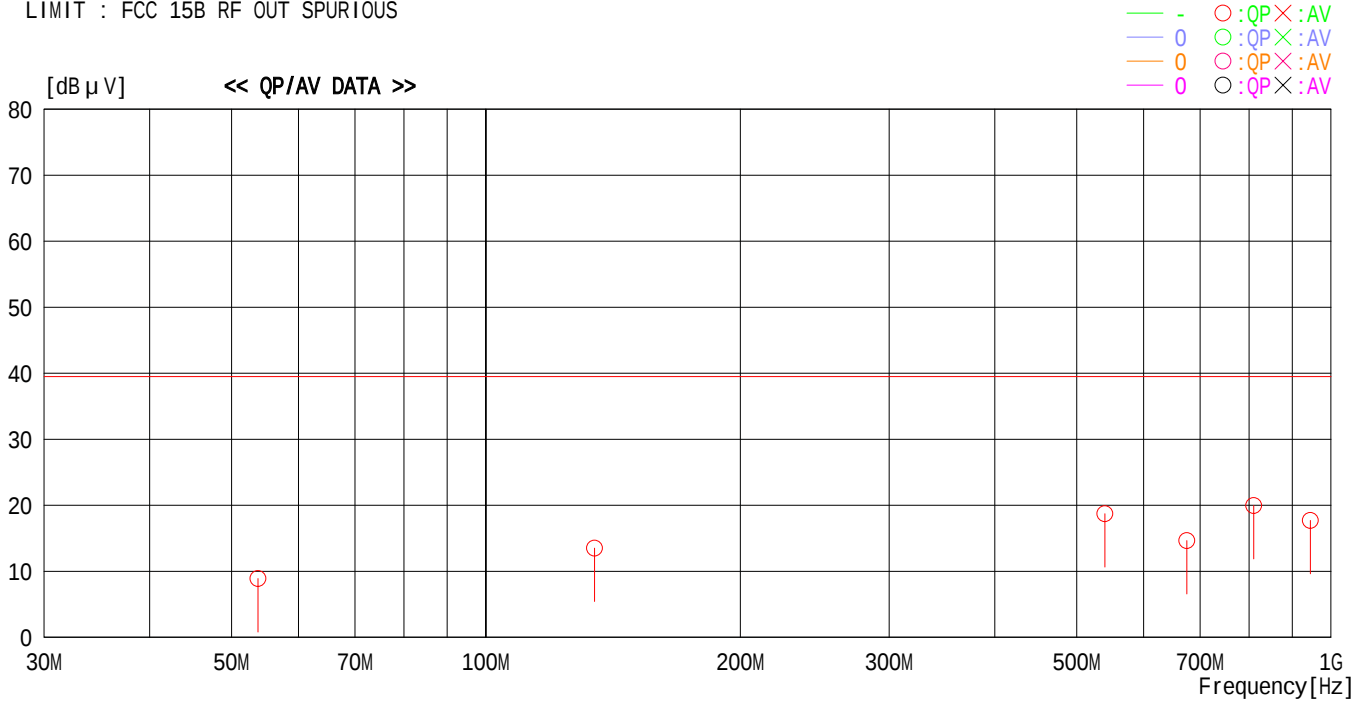
UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : SD-V594SU
TEMP./HUMID. : 20 /39%

REPORT NO : 26EE0195-YW-1
DATE : December 28 ,2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tomoyuki Yamashita

OPERATION MODE : VCR PLAYBACK :4ch

LIMIT : FCC 15B RF OUT SPURIOUS



NO	FREQ [MHz]	READING		C.F [dB]	RESULT		LIMIT		MARGIN		PHASE
		PEAK [dB μ V]	[dB μ V]		PEAK [dB μ V]	[dB μ V]	PEAK [dB μ V]	[dB μ V]	PEAK [dB]	[dB]	
1	53.7400	29.2	----	-20.3	8.9	----	39.5	----	30.6	----	-
2	134.4600	33.3	----	-19.8	13.5	----	39.5	----	26.0	----	-
3	540.0200	38.5	----	-19.8	18.7	----	39.5	----	20.8	----	-
4	675.0000	34.4	----	-19.8	14.6	----	39.5	----	24.9	----	-
5	810.0100	39.6	----	-19.6	20.0	----	39.5	----	19.5	----	-
6	945.0100	36.5	----	-18.8	17.7	----	39.5	----	21.8	----	-

CALCULATION: READING+MATCHING PAD LOSS+CABLE LOSS-AMP.GAIN

DATA OF RF SPURIOUS TEST

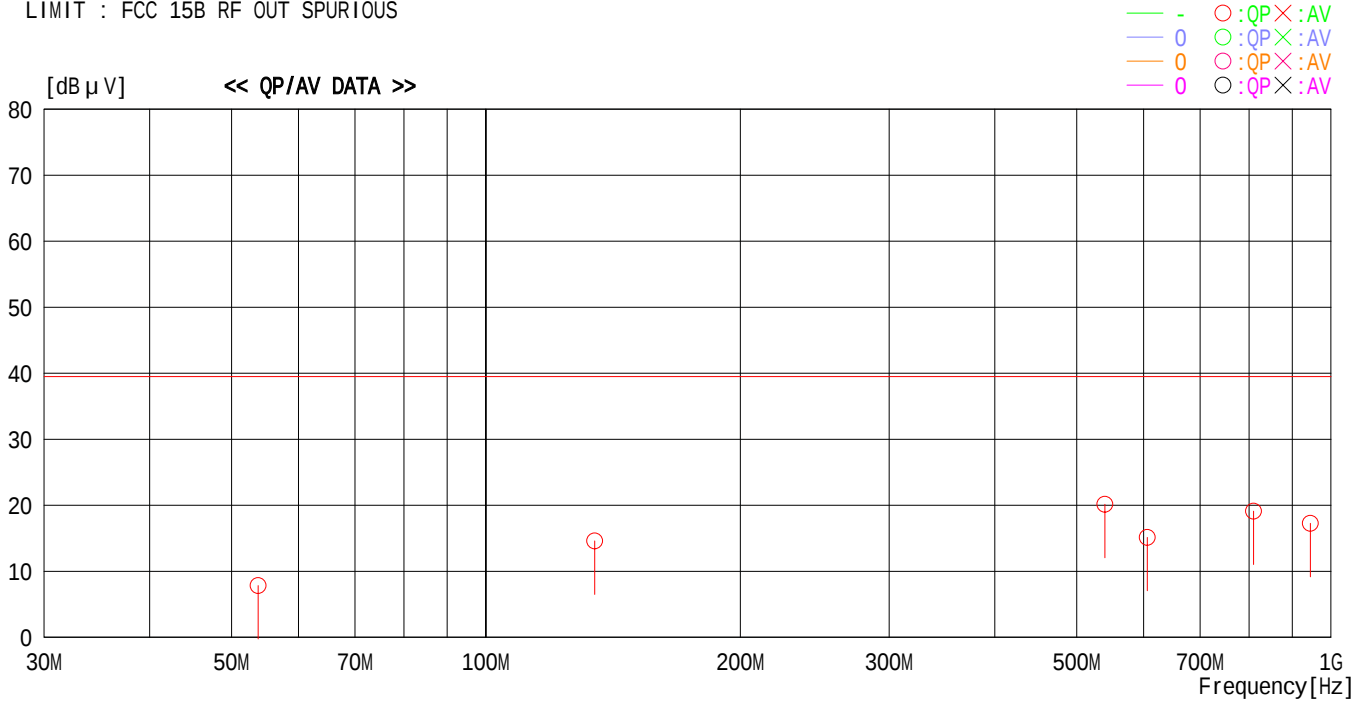
UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : SD-V594SU
TEMP./HUMID. : 20 /39%

REPORT NO : 26EE0195-YW-1
DATE : December 28 ,2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tomoyuki Yamashita

OPERATION MODE : HDMI (DVD) :4ch

LIMIT : FCC 15B RF OUT SPURIOUS



NO	FREQ [MHz]	READING		C.F [dB]	RESULT		LIMIT		MARGIN		PHASE
		PEAK [dB μ V]	[dB μ V]		PEAK [dB μ V]	[dB μ V]	PEAK [dB μ V]	[dB μ V]	PEAK [dB]	[dB]	
1	53.7500	28.1	----	-20.3	7.8	----	39.5	----	31.7	----	-
2	134.4700	34.4	----	-19.8	14.6	----	39.5	----	24.9	----	-
3	540.0000	39.9	----	-19.8	20.1	----	39.5	----	19.4	----	-
4	606.2500	34.9	----	-19.8	15.1	----	39.5	----	24.4	----	-
5	809.9700	38.7	----	-19.6	19.1	----	39.5	----	20.4	----	-
6	945.0000	36.1	----	-18.8	17.3	----	39.5	----	22.2	----	-

CALCULATION: READING+MATCHING PAD LOSS+CABLE LOSS-AMP.GAIN

DATA OF RF SPURIOUS TEST

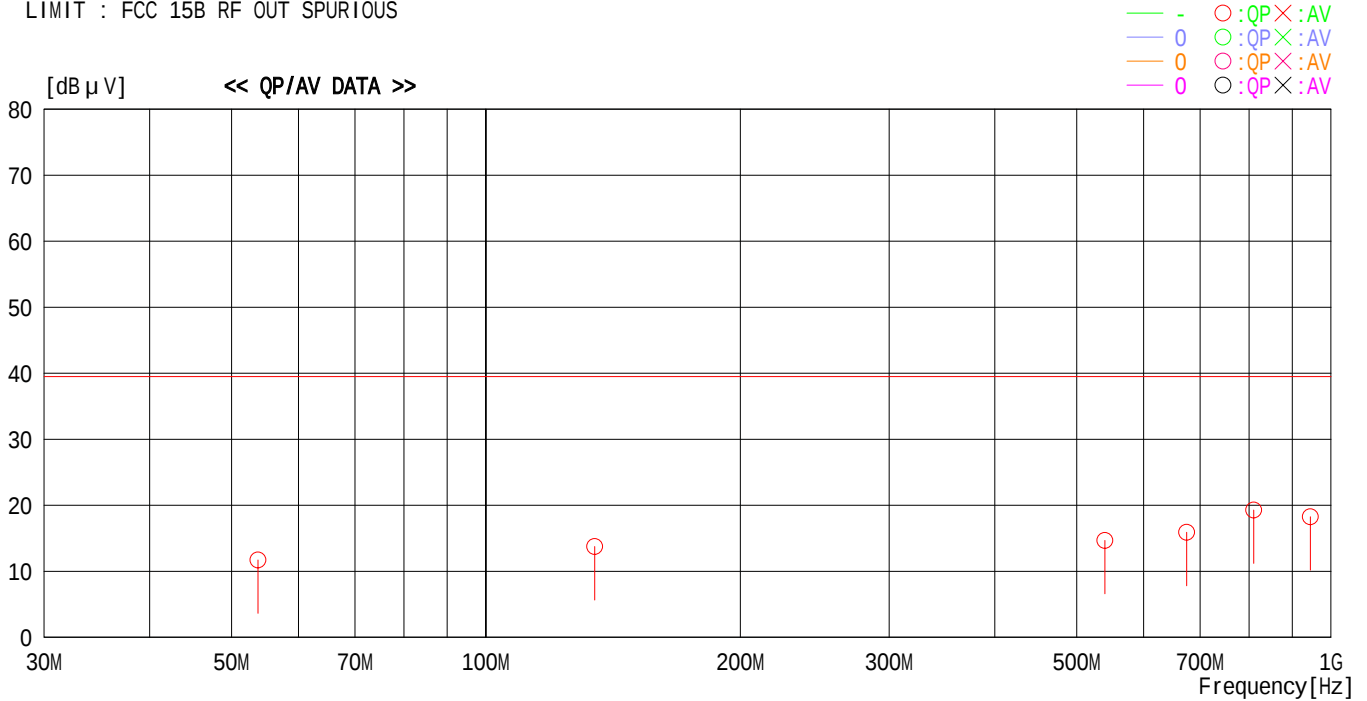
UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : SD-V594SU
TEMP./HUMID. : 20 /39%

REPORT NO : 26EE0195-YW-1
DATE : January 11 ,2006
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tomoyuki Yamashita

OPERATION MODE : USB :4ch

LIMIT : FCC 15B RF OUT SPURIOUS



NO	FREQ [MHz]	READING		C.F [dB]	RESULT		LIMIT		MARGIN		PHASE
		PEAK [dB μ V]	[dB μ V]		PEAK [dB μ V]	[dB μ V]	PEAK [dB μ V]	[dB μ V]	PEAK [dB]	[dB]	
1	53.7300	31.3	----	-19.6	11.7	----	39.5	----	27.8	----	-
2	134.4800	33.2	----	-19.5	13.7	----	39.5	----	25.8	----	-
3	540.0000	34.1	----	-19.4	14.7	----	39.5	----	24.8	----	-
4	674.9400	35.4	----	-19.5	15.9	----	39.5	----	23.6	----	-
5	810.0100	38.9	----	-19.6	19.3	----	39.5	----	20.2	----	-
6	945.0000	38.1	----	-19.8	18.3	----	39.5	----	21.2	----	-

CALCULATION: READING+MATCHING PAD LOSS+CABLE LOSS-AMP.GAIN

DATA OF ANTENNA TRANSFER SWITCH TEST

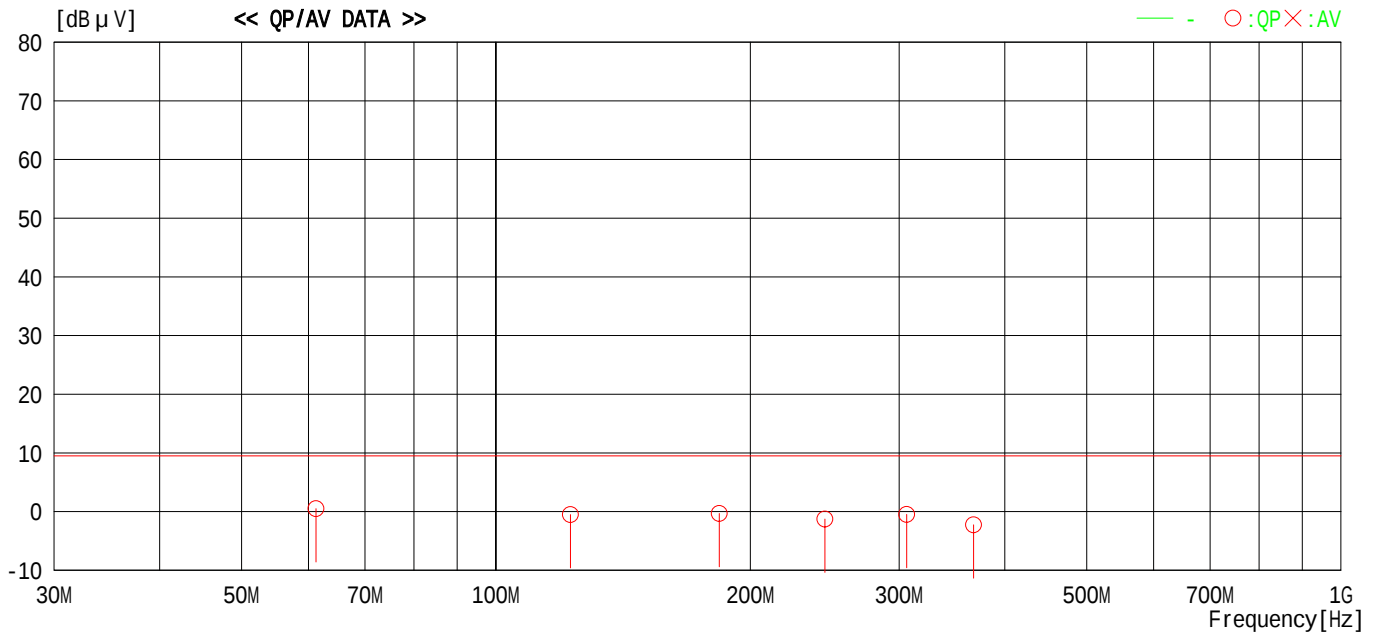
UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : SD-V594SU
TEMP./HUMID. : 20 /39%

REPORT NO : 26EE0195-YW-1
DATE : December 28,2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tomoyuki Yamashita

OPERATION MODE : AV Input1+Rec(1Vp-p):3ch

LIMIT : FCC15B ANTENNA TRANSFER SWITCH



NO	FREQ [MHz]	READING		C.F [dB]	RESULT		LIMIT		MARGIN		PHASE
		PEAK [dB μ V]	[dB μ V]		PEAK [dB μ V]	[dB μ V]	PEAK [dB μ V]	[dB μ V]	PEAK [dB]	[dB]	
1	61.2500	20.7	----	-20.2	0.5	----	9.5	----	9.0	----	-
2	122.5000	19.3	----	-19.8	-0.5	----	9.5	----	10.0	----	-
3	183.7500	19.2	----	-19.5	-0.3	----	9.5	----	9.8	----	-
4	245.0000	18.0	----	-19.3	-1.3	----	9.5	----	10.8	----	-
5	306.2500	18.7	----	-19.2	-0.5	----	9.5	----	10.0	----	-
6	367.5000	17.3	----	-19.5	-2.3	----	9.5	----	11.8	----	-

CALCULATION: READING+MATCHING PAD LOSS+CABLE LOSS-AMP.GAIN

DATA OF ANTENNA TRANSFER SWITCH TEST

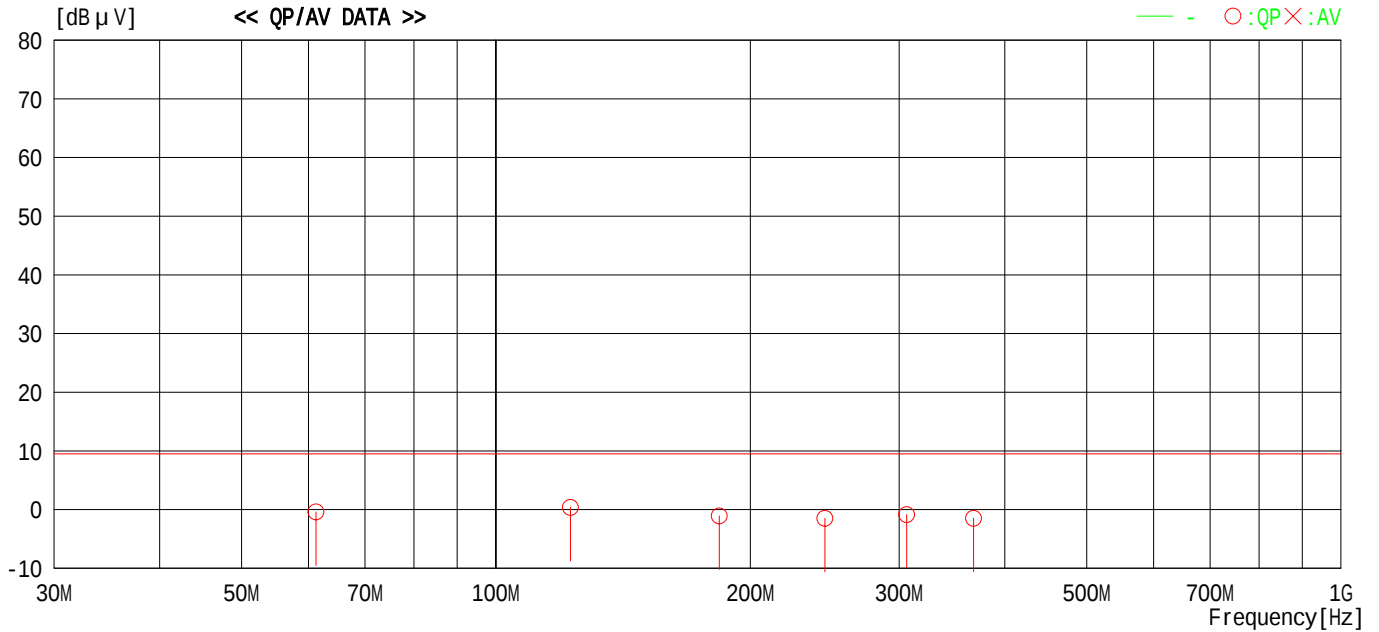
UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : SD-V594SU
TEMP./HUMID. : 20 /39%

REPORT NO : 26EE0195-YW-1
DATE : December 28,2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tomoyuki Yamashita

OPERATION MODE : AV Input1+Rec(5Vp-p):3ch

LIMIT : FCC15B ANTENNA TRANSFER SWITCH



NO	FREQ	READING		C.F	RESULT		LIMIT		MARGIN		PHASE
	[MHz]	PEAK [dB μ V]	[dB μ V]		[dB]	PEAK [dB μ V]	[dB μ V]	PEAK [dB μ V]	[dB μ V]	PEAK [dB]	
1	61.2500	19.8	----	-20.2	-0.4	----	9.5	----	9.9	----	-
2	122.5000	20.2	----	-19.8	0.4	----	9.5	----	9.1	----	-
3	183.7500	18.4	----	-19.5	-1.1	----	9.5	----	10.6	----	-
4	245.0000	17.8	----	-19.3	-1.5	----	9.5	----	11.0	----	-
5	306.2500	18.3	----	-19.2	-0.9	----	9.5	----	10.4	----	-
6	367.5000	18.0	----	-19.5	-1.5	----	9.5	----	11.0	----	-

CALCULATION:READING+MATCHING PAD LOSS+CABLE LOSS-AMP.GAIN

DATA OF ANTENNA TRANSFER SWITCH TEST

UL Apex Co.,Ltd.

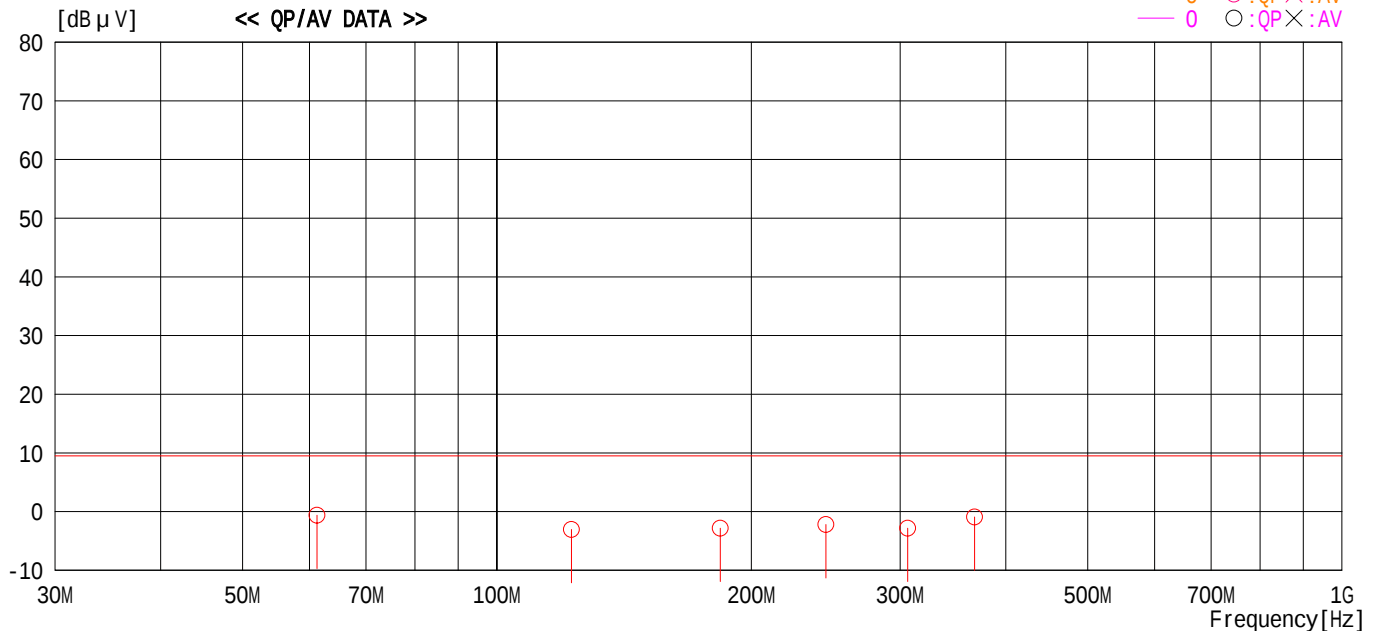
COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : SD-V594SU
TEMP./HUMID. : 20 /39%

REPORT NO : 26EE0195-YW-1
DATE : December 28,2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tomoyuki Yamashita

OPERATION MODE : AV Input2+Rec(1Vp-p):3ch

LIMIT : FCC15B ANTENNA TRANSFER SWITCH

— - ○:QP×:AV
— 0 ○:QP×:AV
— 0 ○:QP×:AV
— 0 ○:QP×:AV



NO	FREQ	READING		C.F	RESULT		LIMIT		MARGIN		PHASE
	PEAK [MHz]	PEAK [dB μ V]	[dB μ V]	[dB]	PEAK [dB μ V]	[dB μ V]	PEAK [dB μ V]	[dB μ V]	PEAK [dB]	[dB]	
1	61.2500	19.6	----	-20.2	-0.6	----	9.5	----	10.1	----	-
2	122.5000	16.8	----	-19.8	-3.1	----	9.5	----	12.6	----	-
3	183.7500	16.7	----	-19.5	-2.8	----	9.5	----	12.3	----	-
4	245.0000	17.1	----	-19.3	-2.2	----	9.5	----	11.7	----	-
5	306.2500	16.4	----	-19.2	-2.8	----	9.5	----	12.3	----	-
6	367.5000	18.6	----	-19.5	-0.9	----	9.5	----	10.4	----	-

CALCULATION: READING+MATCHING PAD LOSS+CABLE LOSS-AMP.GAIN

DATA OF ANTENNA TRANSFER SWITCH TEST

UL Apex Co.,Ltd.

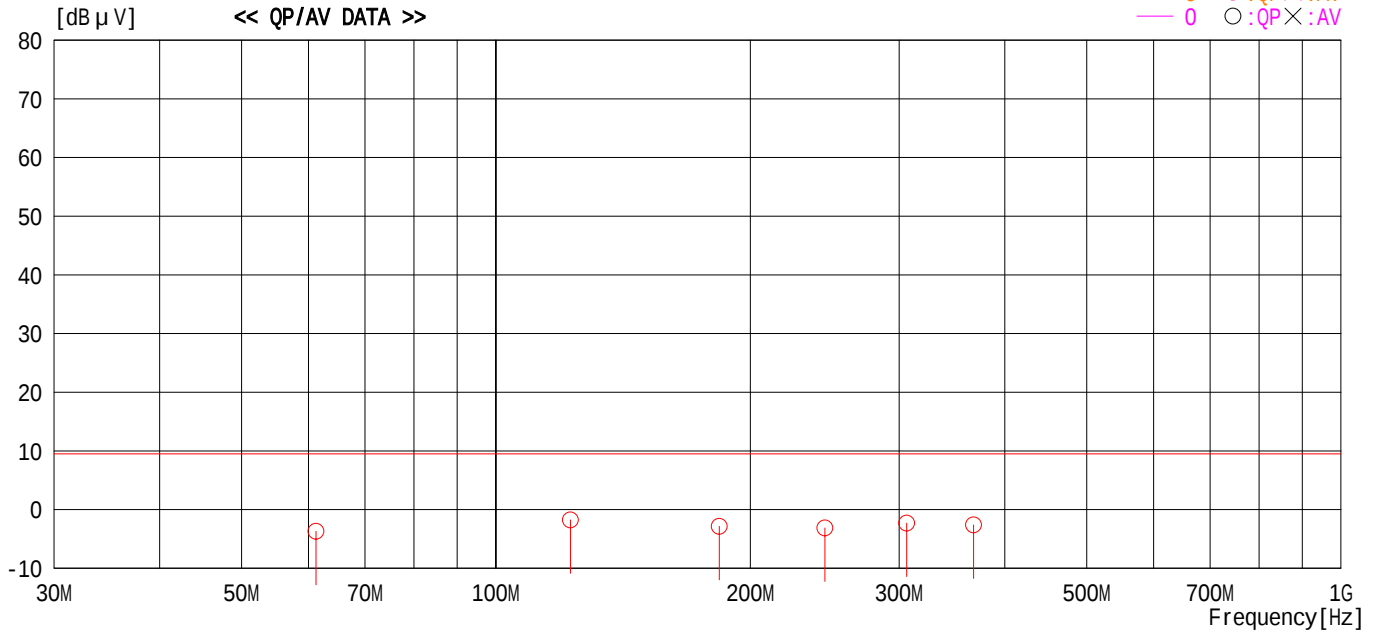
COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : SD-V594SU
TEMP./HUMID. : 20 /39%

REPORT NO : 26EE0195-YW-1
DATE : December 28,2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tomoyuki Yamashita

OPERATION MODE : AV Input2+Rec(5Vp-p):3ch

LIMIT : FCC15B ANTENNA TRANSFER SWITCH

— - ○:QP×:AV
— 0 ○:QP×:AV
— 0 ○:QP×:AV
— 0 ○:QP×:AV



CALCULATION:READING+MATCHING PAD LOSS+CABLE LOSS-AMP.GAIN

DATA OF ANTENNA TRANSFER SWITCH TEST

UL Apex Co.,Ltd.

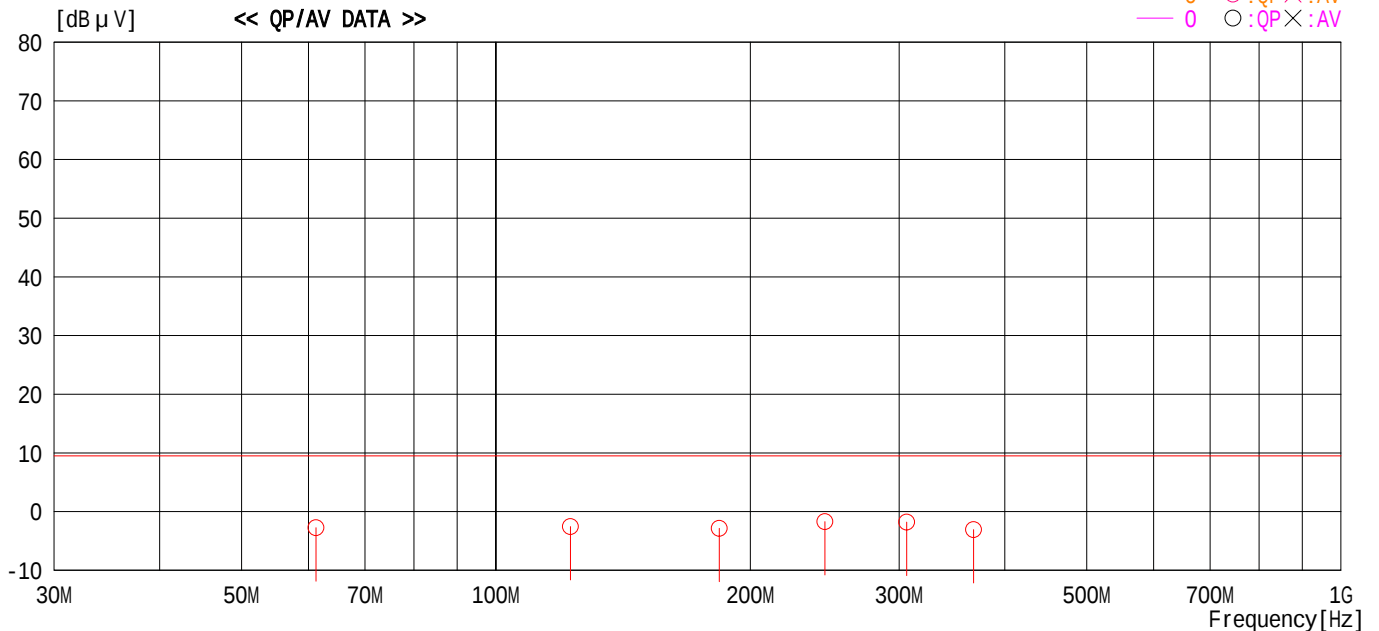
COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : SD-V594SU
TEMP./HUMID. : 20 /39%

REPORT NO : 26EE0195-YW-1
DATE : December 28,2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tomoyuki Yamashita

OPERATION MODE : VCR PLAYBACK:3ch

LIMIT : FCC15B ANTENNA TRANSFER SWITCH

— — — — —
0 0 0 0 0
0 0 0 0 0
0 0 0 0 0



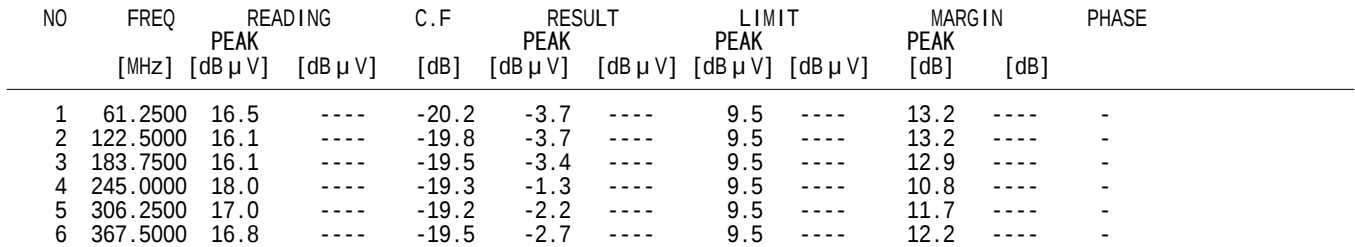
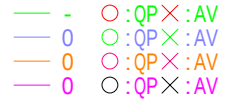
NO	FREQ	READING		C.F	RESULT		LIMIT		MARGIN		PHASE
	PEAK [MHz]	PEAK [dB μ V]	[dB μ V]	[dB]	PEAK [dB μ V]	[dB μ V]	PEAK [dB μ V]	[dB μ V]	PEAK [dB]	[dB]	
1	61.2500	17.4	----	-20.2	-2.8	----	9.5	----	12.3	----	-
2	122.5000	17.3	----	-19.8	-2.6	----	9.5	----	12.1	----	-
3	183.7500	16.7	----	-19.5	-2.8	----	9.5	----	12.3	----	-
4	245.0000	17.6	----	-19.3	-1.7	----	9.5	----	11.2	----	-
5	306.2500	17.4	----	-19.2	-1.8	----	9.5	----	11.3	----	-
6	367.5000	16.4	----	-19.5	-3.1	----	9.5	----	12.6	----	-

CALCULATION: READING+MATCHING PAD LOSS+CABLE LOSS-AMP.GAIN

UL Apex Co., Ltd.

REPORT NO : 26EE0195-YW-1
DATE : December 28, 2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tomoyuki Yamashita

LIMIT : FCC15B ANTENNA TRANSFER SWITCH



134

DATA OF ANTENNA TRANSFER SWITCH TEST

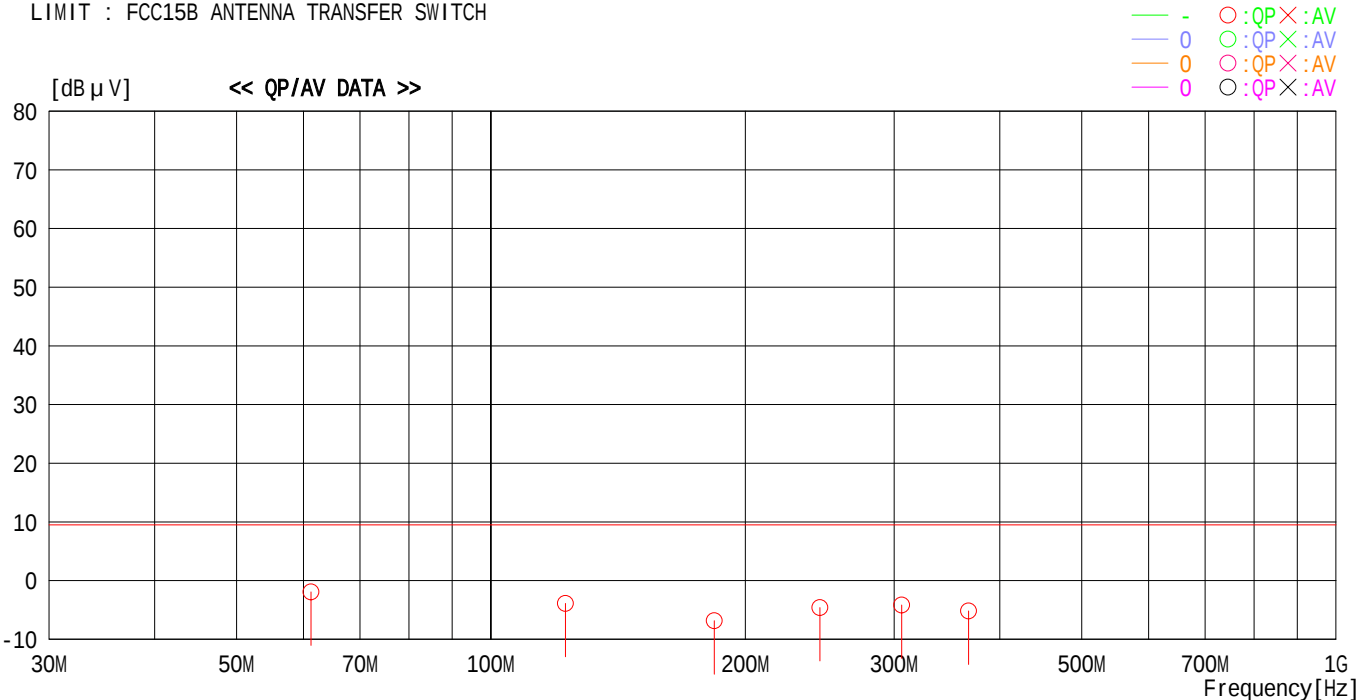
UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : SD-V594SU
TEMP./HUMID. : 20 /39%

REPORT NO : 26EE0195-YW-1
DATE : January 11,2006
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tomoyuki Yamashita

OPERATION MODE : USB:3ch

LIMIT : FCC15B ANTENNA TRANSFER SWITCH



NO	FREQ [MHz]	READING		C.F [dB]	RESULT		LIMIT		MARGIN		PHASE
		PEAK [dB μ V]	[dB μ V]		PEAK [dB μ V]	[dB μ V]	PEAK [dB μ V]	[dB μ V]	PEAK [dB]	[dB]	
1	61.2500	17.7	----	-19.6	-1.9	----	9.5	----	11.4	----	-
2	122.5000	15.7	----	-19.6	-3.9	----	9.5	----	13.4	----	-
3	183.7500	12.6	----	-19.4	-6.8	----	9.5	----	16.3	----	-
4	245.0000	14.9	----	-19.5	-4.6	----	9.5	----	14.1	----	-
5	306.2500	15.3	----	-19.5	-4.2	----	9.5	----	13.7	----	-
6	367.5000	14.3	----	-19.5	-5.2	----	9.5	----	14.7	----	-

CALCULATION:READING+MATCHING PAD LOSS+CABLE LOSS-AMP.GAIN

DATA OF ANTENNA TRANSFER SWITCH TEST

UL Apex Co.,Ltd.

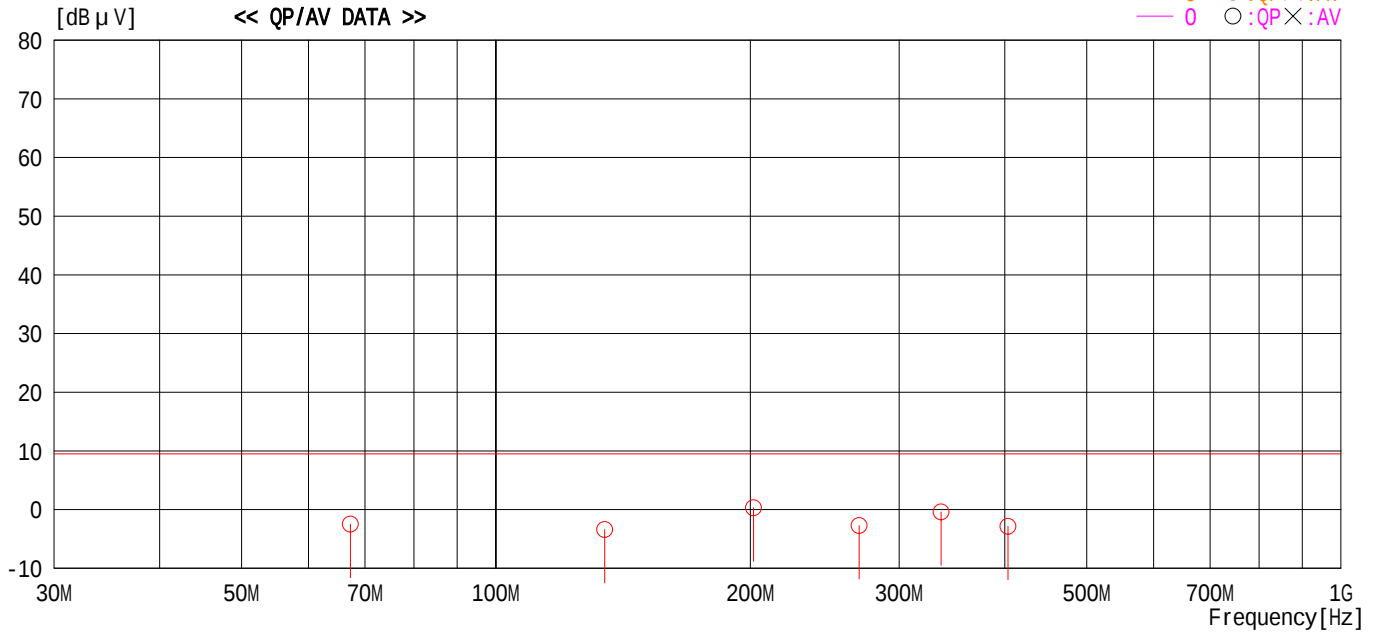
COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : SD-V594SU
TEMP./HUMID. : 20 /39%

REPORT NO : 26EE0195-YW-1
DATE : December 28,2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tomoyuki Yamashita

OPERATION MODE : AV Input1+Rec(1Vpp):4ch

LIMIT : FCC15B ANTENNA TRANSFER SWITCH

— - ○:QP×:AV
— 0 ○:QP×:AV
— 0 ○:QP×:AV
— 0 ○:QP×:AV



NO	FREQ [MHz]	READING PEAK [dB μ V]		C.F [dB]	RESULT PEAK [dB μ V]		LIMIT PEAK [dB μ V]		MARGIN PEAK [dB]		PHASE
1	67.2500	17.6	----	-20.1	-2.5	----	9.5	----	12.0	----	-
2	134.5000	16.4	----	-19.8	-3.4	----	9.5	----	12.9	----	-
3	201.7500	19.7	----	-19.4	0.3	----	9.5	----	9.2	----	-
4	269.0000	16.5	----	-19.2	-2.7	----	9.5	----	12.2	----	-
5	336.2500	18.9	----	-19.3	-0.4	----	9.5	----	9.9	----	-
6	403.5000	17.0	----	-19.8	-2.8	----	9.5	----	12.3	----	-

CALCULATION: READING+MATCHING PAD LOSS+CABLE LOSS-AMP.GAIN

DATA OF ANTENNA TRANSFER SWITCH TEST

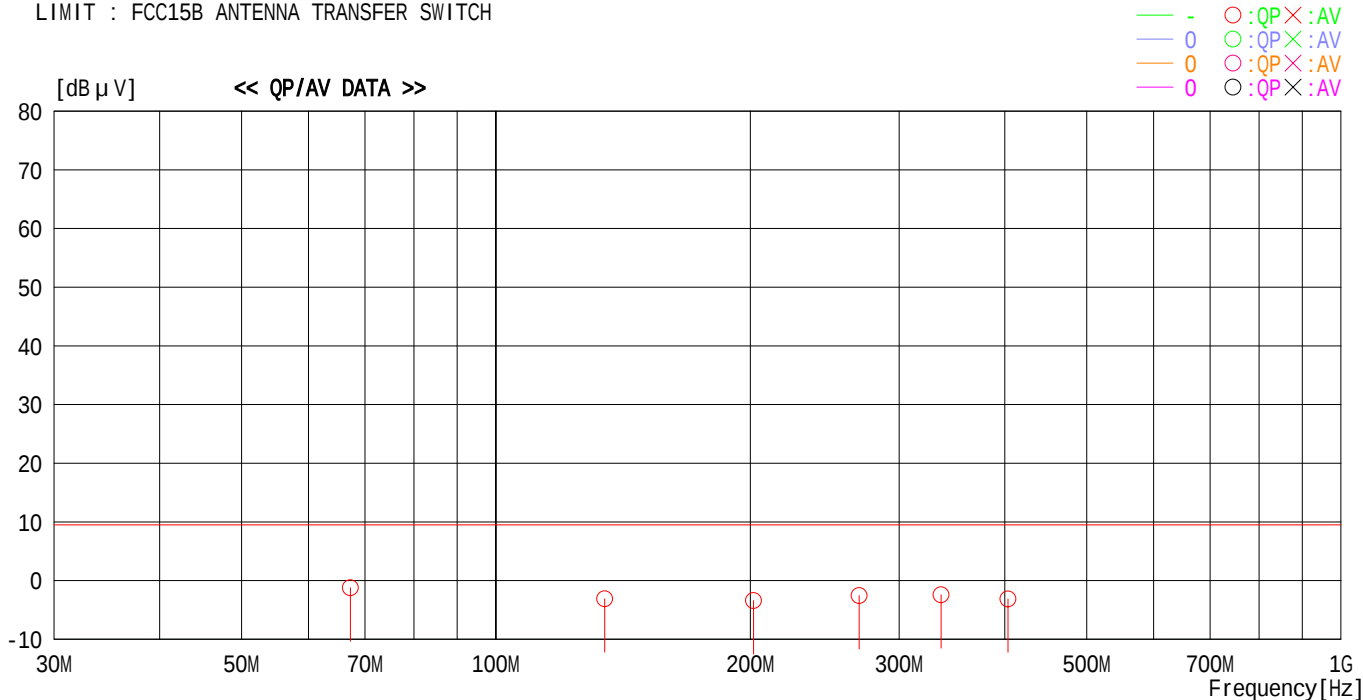
UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : SD-V594SU
TEMP./HUMID. : 20 /39%

REPORT NO : 26EE0195-YW-1
DATE : December 28,2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tomoyuki Yamashita

OPERATION MODE : AV Input1+Rec(5Vpp):4ch

LIMIT : FCC15B ANTENNA TRANSFER SWITCH



NO	FREQ [MHz]	READING		C.F [dB]	RESULT		LIMIT		MARGIN		PHASE
		PEAK [dB μ V]	[dB μ V]		PEAK [dB μ V]	[dB μ V]	PEAK [dB μ V]	[dB μ V]	PEAK [dB]	[dB]	
1	67.2500	18.9	----	-20.1	-1.2	----	9.5	----	10.7	----	-
2	134.5000	16.7	----	-19.8	-3.1	----	9.5	----	12.6	----	-
3	201.7500	16.0	----	-19.4	-3.4	----	9.5	----	12.9	----	-
4	269.0000	16.7	----	-19.2	-2.5	----	9.5	----	12.0	----	-
5	336.2500	16.9	----	-19.3	-2.4	----	9.5	----	11.9	----	-
6	403.5000	16.7	----	-19.8	-3.1	----	9.5	----	12.6	----	-

CALCULATION:READING+MATCHING PAD LOSS+CABLE LOSS-AMP.GAIN

DATA OF ANTENNA TRANSFER SWITCH TEST

UL Apex Co.,Ltd.

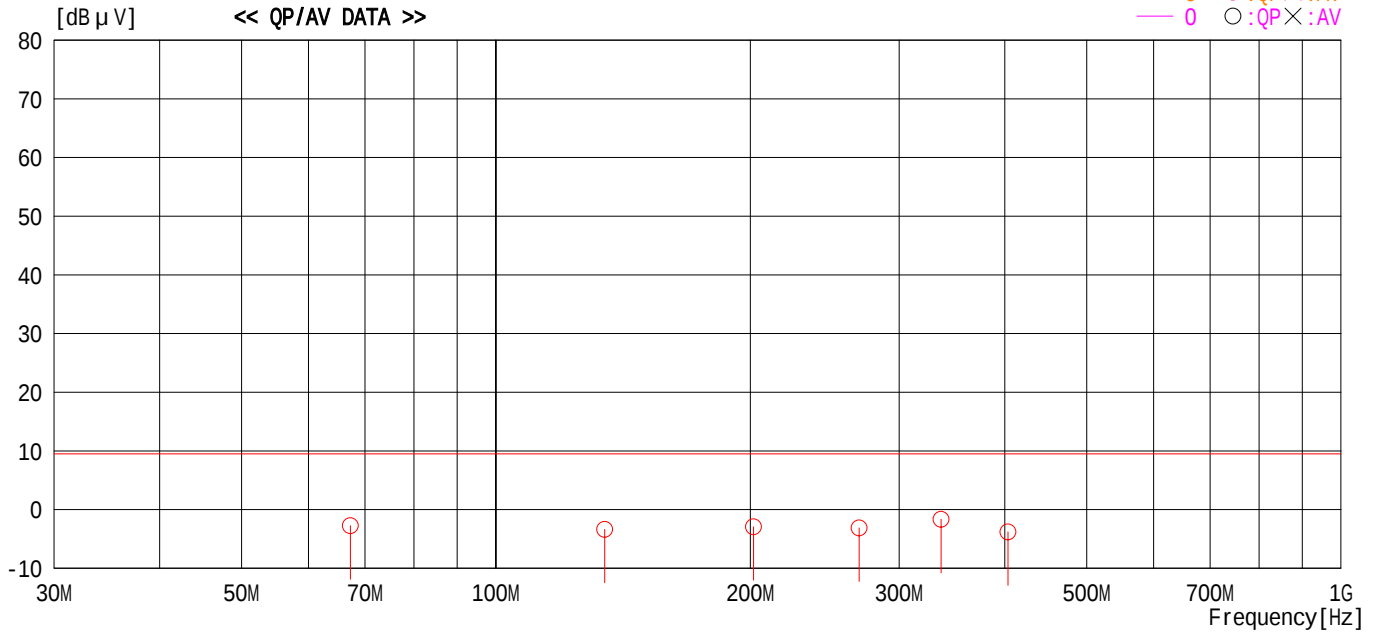
COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : SD-V594SU
TEMP./HUMID. : 20 /39%

REPORT NO : 26EE0195-YW-1
DATE : December 28,2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tomoyuki Yamashita

OPERATION MODE : AV Input2+Rec(1Vpp):4ch

LIMIT : FCC15B ANTENNA TRANSFER SWITCH

— - ○:QP×:AV
— 0 ○:QP×:AV
— 0 ○:QP×:AV
— 0 ○:QP×:AV



NO	FREQ [MHz]	READING PEAK [dB μ V]		C.F [dB]	RESULT PEAK [dB μ V]		LIMIT PEAK [dB μ V]		MARGIN PEAK [dB]		PHASE
		[dB μ V]			[dB μ V]		[dB μ V]		[dB]		
1	67.2500	17.3	----	-20.1	-2.8	----	9.5	----	12.3	----	-
2	134.5000	16.4	----	-19.8	-3.4	----	9.5	----	12.9	----	-
3	201.7500	16.5	----	-19.4	-2.9	----	9.5	----	12.4	----	-
4	269.0000	16.1	----	-19.2	-3.1	----	9.5	----	12.6	----	-
5	336.2500	17.6	----	-19.3	-1.7	----	9.5	----	11.2	----	-
6	403.5000	16.0	----	-19.8	-3.8	----	9.5	----	13.3	----	-

CALCULATION: READING+MATCHING PAD LOSS+CABLE LOSS-AMP.GAIN

DATA OF ANTENNA TRANSFER SWITCH TEST

UL Apex Co.,Ltd.

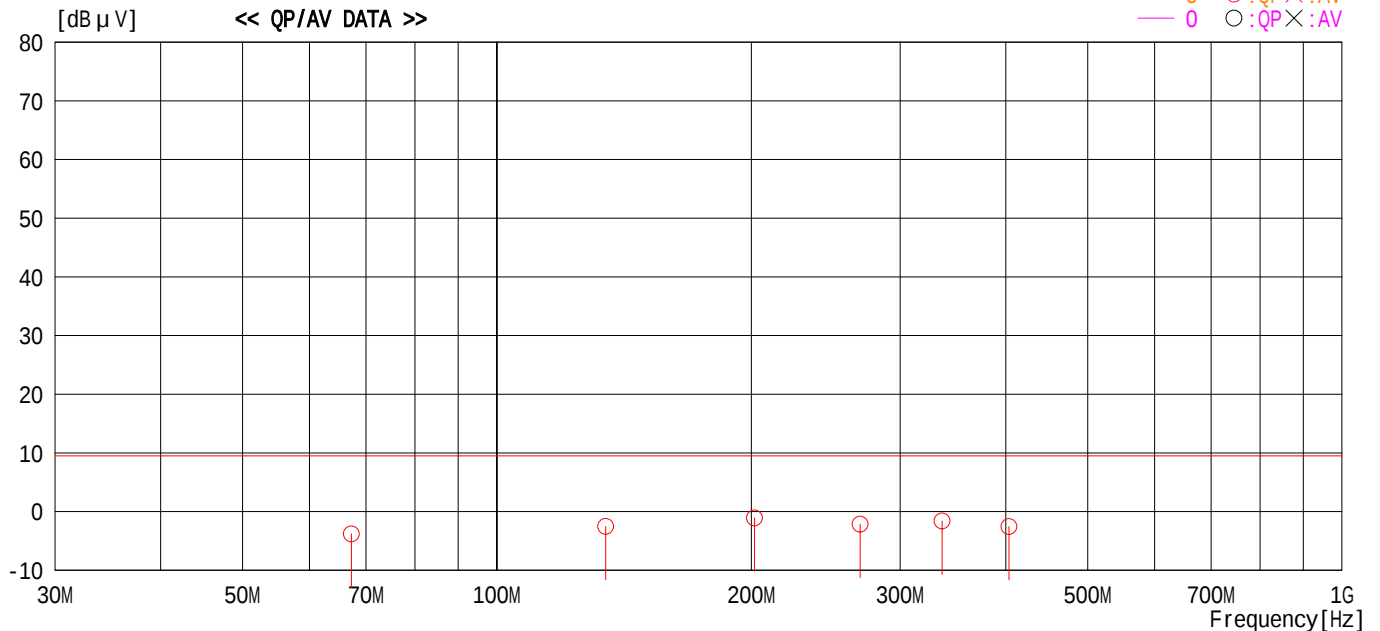
COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : SD-V594SU
TEMP./HUMID. : 20 /39%

REPORT NO : 26EE0195-YW-1
DATE : December 28,2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tomoyuki Yamashita

OPERATION MODE : AV Input2+Rec(5Vpp):4ch

LIMIT : FCC15B ANTENNA TRANSFER SWITCH

— - ○:QP×:AV
— 0 ○:QP×:AV
— 0 ○:QP×:AV
— 0 ○:QP×:AV



NO	FREQ [MHz]	READING PEAK [dB μ V]		C.F [dB]	RESULT PEAK [dB μ V]		LIMIT PEAK [dB μ V]		MARGIN PEAK [dB]		PHASE
1	67.2500	16.3	----	-20.1	-3.8	----	9.5	----	13.3	----	-
2	134.5000	17.3	----	-19.8	-2.5	----	9.5	----	12.0	----	-
3	201.7500	18.3	----	-19.4	-1.1	----	9.5	----	10.6	----	-
4	269.0000	17.1	----	-19.2	-2.1	----	9.5	----	11.6	----	-
5	336.2500	17.7	----	-19.3	-1.6	----	9.5	----	11.1	----	-
6	403.5000	17.3	----	-19.8	-2.5	----	9.5	----	12.1	----	-

CALCULATION: READING+MATCHING PAD LOSS+CABLE LOSS-AMP.GAIN

DATA OF ANTENNA TRANSFER SWITCH TEST

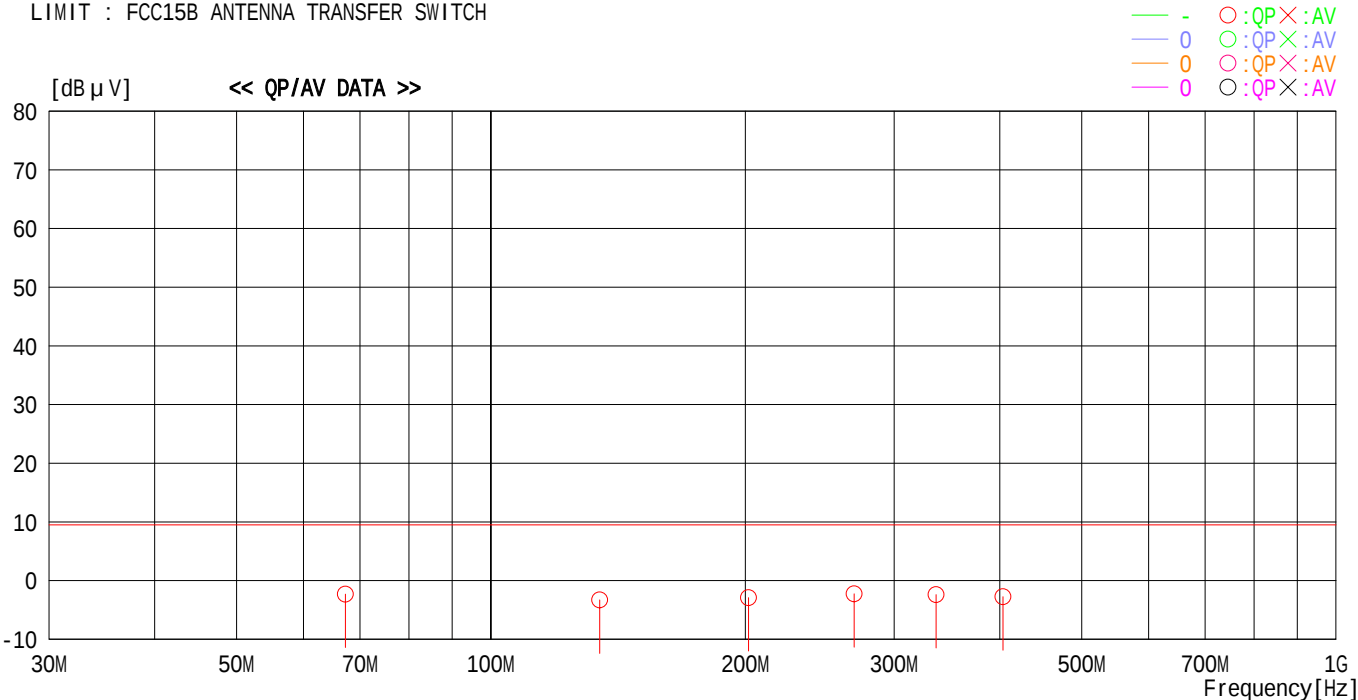
UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : SD-V594SU
TEMP./HUMID. : 20 /39%

REPORT NO : 26EE0195-YW-1
DATE : December 28,2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tomoyuki Yamashita

OPERATION MODE : VCR PLAYBACK:4ch

LIMIT : FCC15B ANTENNA TRANSFER SWITCH



CALCULATION:READING+MATCHING PAD LOSS+CABLE LOSS-AMP.GAIN

DATA OF ANTENNA TRANSFER SWITCH TEST

UL Apex Co.,Ltd.

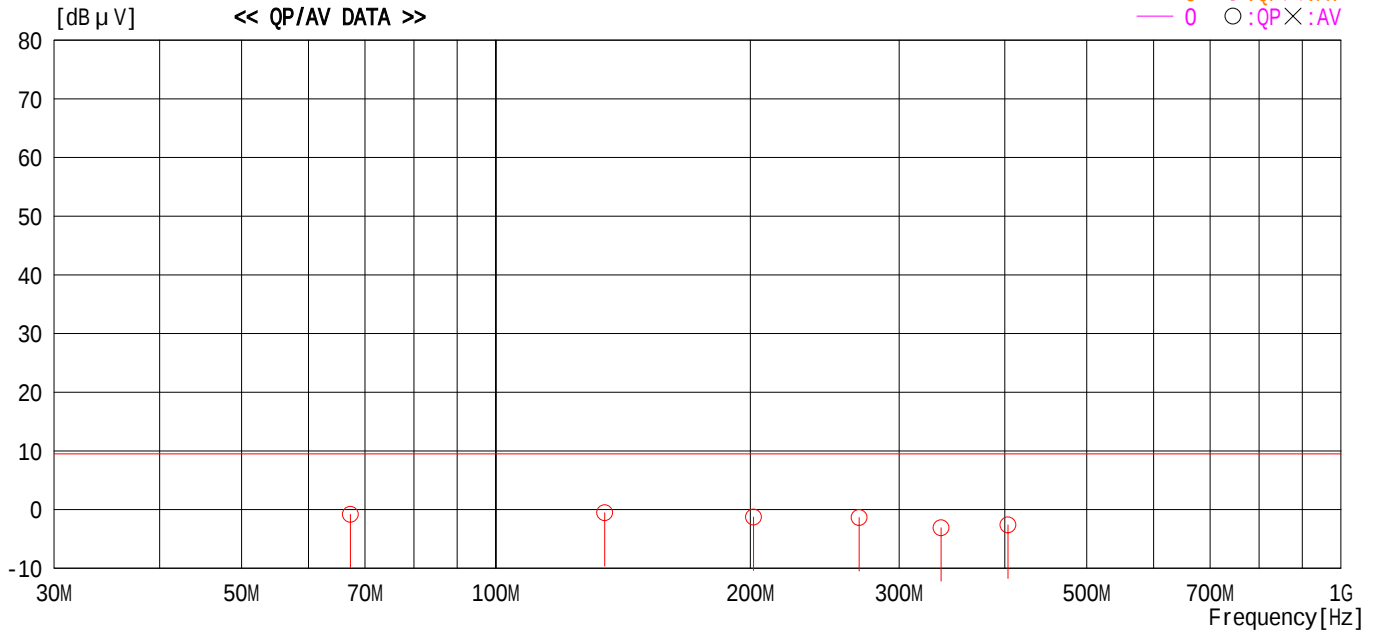
COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : SD-V594SU
TEMP./HUMID. : 20 /39%

REPORT NO : 26EE0195-YW-1
DATE : December 28,2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tomoyuki Yamashita

OPERATION MODE : HDMI (DVD):4ch

LIMIT : FCC15B ANTENNA TRANSFER SWITCH

— — — — —
0 0 0 0 0
0 0 0 0 0
0 0 0 0 0



NO	FREQ [MHz]	READING PEAK [dB μ V]	C.F [dB]	RESULT PEAK [dB μ V]	LIMIT PEAK [dB μ V]	MARGIN PEAK [dB]	PHASE
1	67.2500	19.3	----	-20.1	-0.8	----	-
2	134.5000	19.3	----	-19.8	-0.5	----	-
3	201.7500	18.1	----	-19.4	-1.3	----	-
4	269.0000	17.8	----	-19.2	-1.4	----	-
5	336.2500	16.2	----	-19.3	-3.1	----	-
6	403.5000	17.2	----	-19.8	-2.6	----	-

CALCULATION: READING+MATCHING PAD LOSS+CABLE LOSS-AMP.GAIN

DATA OF ANTENNA TRANSFER SWITCH TEST

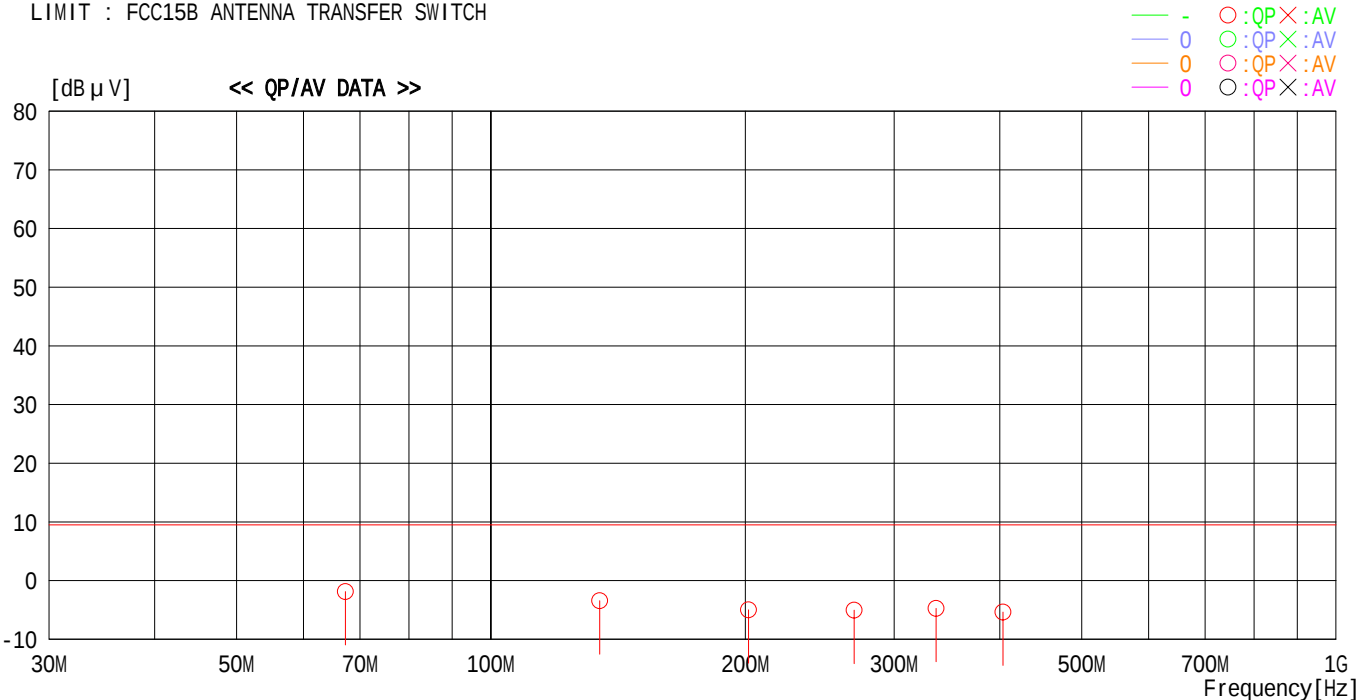
UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : SD-V594SU
TEMP./HUMID. : 20 /39%

REPORT NO : 26EE0195-YW-1
DATE : January 11,2006
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tomoyuki Yamashita

OPERATION MODE : USB:4ch

LIMIT : FCC15B ANTENNA TRANSFER SWITCH



NO	FREQ [MHz]	READING		C.F [dB]	RESULT		LIMIT		MARGIN		PHASE
		PEAK [dB μ V]	[dB μ V]		PEAK [dB μ V]	[dB μ V]	PEAK [dB μ V]	[dB μ V]	PEAK [dB]	[dB]	
1	67.2500	17.6	----	-19.5	-1.9	----	9.5	----	11.4	----	-
2	134.5000	16.1	----	-19.5	-3.4	----	9.5	----	12.9	----	-
3	201.7500	14.4	----	-19.4	-5.0	----	9.5	----	14.5	----	-
4	269.0000	14.5	----	-19.5	-5.0	----	9.5	----	14.5	----	-
5	336.2500	14.8	----	-19.5	-4.7	----	9.5	----	14.2	----	-
6	403.5000	14.1	----	-19.5	-5.4	----	9.5	----	14.9	----	-

CALCULATION:READING+MATCHING PAD LOSS+CABLE LOSS-AMP.GAIN

Picture Sensitivity Test

UL Apex Co.,Ltd.
Yokowa EMC Laboratory

Company : Orion Electric Co.,Ltd.
Equipment : DVD/VCR
Model Number : SD-V594SU
Power : 120V/60Hz
Description : TV Reception
Remarks : -

Report Number : 26EE0195-YW-1
Regulation : FCC Part15 SubpartB
Date : December 22,2005
Temp / Humid : 18deg.C / 32%
Engineer : Tomoyuki Yamashita

Ch [VHF]	Frequency [MHz]	Sensitivity [MHz]		Ch [UHF]	Frequency [MHz]	Sensitivity [MHz]	
		[dBμV]	[μV]			[dB μ V]	[μ V]
2	55.25	20.0	10.0	14	471.25	21.0	11.2
3	61.25	18.1	8.0	20	507.25	21.8	12.3
4	67.25	17.4	7.4	26	543.25	22.5	13.3
5	77.25	17.8	7.8	32	579.25	22.5	13.3
6	83.25	17.5	7.5	38	615.25	22.5	13.3
7	175.25	20.0	10.0	44	651.25	23.9	15.7
8	181.25	19.7	9.7	50	687.25	23.6	15.1
9	187.25	18.7	8.6	56	723.25	23.3	14.6
10	193.25	18.9	8.8	62	759.25	23.0	14.1
11	199.25	18.6	8.5	69	801.25	22.6	13.5
12	205.25	19.0	8.9	-	-	-	-
13	211.25	19.5	9.4	-	-	-	-
Average VHF			8.7	Average UHF			13.7
Average UHF/VHF : $20 \log \text{UHF}[\mu\text{V}] / \text{VHF}[\mu\text{V}] =$				3.9 [Limit : 8.0dB]			

Noise Figure Test

UL Apex Co.,Ltd.
Yokowa EMC Laboratory

Company : Orion Electric Co.,Ltd.
Equipment : DVD/VCR
Model Number : SD-V594SU
Power : 120V/60Hz
Description : TV Reception
Remarks : -

Report Number : 26EE0195-YW-1
Regulation : FCC Part15 SubpartB
Date : December 22,2005
Temp / Humid : 18deg.C / 32%
Engineer : Tomoyuki Yamashita

Ch	Frequency [MHz]	Meter Reading [dB]	Correction Factor [dB]	Noise Figure [dB]	Limits [dB]	Margin [dB]
TV VHF Fundamental						
2	55.25	6.0	0.2	5.8	14.0	8.2
3	61.25	5.0	0.2	4.8	14.0	9.2
4	67.25	4.6	0.2	4.4	14.0	9.6
5	77.25	4.4	0.2	4.2	14.0	9.8
6	83.25	4.6	0.2	4.4	14.0	9.6
7	175.25	7.3	0.2	7.1	14.0	6.9
8	181.25	7.0	0.2	6.8	14.0	7.2
9	187.25	6.6	0.2	6.4	14.0	7.6
10	193.25	6.3	0.2	6.1	14.0	7.9
11	199.25	6.9	0.2	6.7	14.0	7.3
12	205.25	6.6	0.2	6.4	14.0	7.6
13	211.25	7.0	0.2	6.8	14.0	7.2
TV UHF Fundamental						
14	471.25	7.0	0.3	6.7	14.0	7.3
20	507.25	7.2	0.3	6.9	14.0	7.1
26	543.25	7.4	0.3	7.1	14.0	6.9
32	579.25	7.8	0.3	7.5	14.0	6.5
38	615.25	8.2	0.3	7.9	14.0	6.1
44	651.25	8.8	0.3	8.5	14.0	5.5
50	687.25	8.3	0.3	8.0	14.0	6.0
56	723.25	7.6	0.4	7.2	14.0	6.8
62	759.25	7.1	0.4	6.7	14.0	7.3
69	801.25	6.9	0.4	6.5	14.0	7.5
Mid band						
14	121.25	4.5	0.2	4.3	14.0	9.7
16	133.25	8.7	0.2	8.5	14.0	5.5
18	145.25	7.0	0.2	6.8	14.0	7.2
20	157.25	6.1	0.2	5.9	14.0	8.1
22	169.25	5.5	0.2	5.3	14.0	8.7
Super band						
23	217.25	5.4	0.2	5.2	14.0	8.8
26	235.25	6.0	0.2	5.8	14.0	8.2
29	253.25	6.4	0.2	6.2	14.0	7.8
32	271.25	6.9	0.2	6.7	14.0	7.3
36	295.25	7.3	0.2	7.1	14.0	6.9

APPENDIX 3

Test Instruments

Control No.	Instrument	Manufacturer	Model No	Test Item	Calibration Date * Interval(month)
APVBT01	VIDEO BOOSTER	UL Apex	-	RF, ATS	-
APTVG01	TV Generator	Leader	408NPS	RF, ATS	Pre Check
APSPA04	Spectrum Analyzer	Advantest	R3265	AT, RF, ATS, PS	2005/05/06 * 12
IP-06	Matching Pad	TME	ZT-301	PS, NF	2005/05/17 * 12
IP-03	Matching Pad	TME	ZT-130	AT, RF, ATS, PS	2005/09/30 * 12
APNFM02	Noise Figure Analyzer	Agilent	N8973A	NF	2005/08/25 * 12
APNFS02	Noise Source	Agilent	346A	NF	2005/08/02 * 12
AV01-01	Signal Generator	Rohde & Schwarz	SMY01	PS	2005/02/23 * 12
AF-05	Pre Amplifier	Hewlett Packard	8447D	AT, RF, ATS	2005/07/12 * 12
AF-06	Pre Amplifier	Agilent	HP8449B	AT	2005/12/03 * 12
APCBL-01	Coaxial Cable	Fujikura	5D-2W	AT, RF, ATS	2005/11/01 * 12
APCBL-02	Coaxial Cable	Fujikura	5D-2W	AT, RF, ATS	2005/11/01 * 12
OS-02	Digital Humidity Indicator	SATO	PC-5000TRH- II	RF, ATS, PS, NF	2004/04/06 * 24
AF-07	Pre Amplifier	Agilent	HP8449B	RE	2005/03/15 * 12
HA-02	Horn Antenna	A.H.Systems	SAS-200/571	RE	2005/04/06 * 12
SA-05	Spectrum Analyzer	Advantest	R3271	CE, RE	2005/12/13 * 12
YOATS-02	Open Test Site	JSE	3m, 10m	RE	2005/05/01 * 12
OS-10	Digital Humidity Indicator	SATO	PC-5000TRH	RE	2004/05/06 * 24
CC-C1	Microwave Cable	Suhner/storm	-	RE	2005/07/11 * 12
AF-03	Pre Amplifier	Anritsu	MH648A	RE	2005/03/25 * 12
AT-04	Attenuator	Anritsu	MP721B	RE	2005/03/22 * 12
BA-04	Biconical Antenna	Schwarzbeck	BBA9106	RE	2005/04/02 * 12
LA-05	Logperiodic Antenna	Schwarzbeck	UHALP9108-A	RE	2005/10/15 * 12
LS-04	LISN(AMN)	Rohde & Schwarz	ESH3-Z5	CE	2005/12/01 * 12
LS-03	LISN(AMN)	Schwarzbeck	NSLK8127	CE	2005/12/01 * 12
TR-03	Test Receiver	Rohde & Schwarz	ESHS30	CE	2005/05/30 * 12
TR-04	Test Receiver	Rohde & Schwarz	ESVS10	RE	2005/12/26 * 12
CC-20RC	Yokowa No.2 open coaxial(0.01-1000MHz)	UL Apex	CC-21,CC-22,CC-23, CC-24,CC-25,CC-26, CC-27,SW-21,SW-22	RE	2005/03/25 * 12
CC-2S	Yokowa No.2 shield coaxial(0.01MHz-1000MHz)	UL Apex	CC-25,CC-27,CC-28, CC-29,SW-21,SW-22	CE	2005/03/25 * 12
YOATS-02	Open Test Site	JSE	3m, 10m	RE	2005/05/01 * 12
OS-15	Digital Humidity Indicator	SATO	PC-5000TRH	CE	2004/05/06 * 24
APTVG01	TV Generator	Leader	408NPS	CE, RE	Pre Check
AF-02	Pre Amplifier	Anritsu	MH648A	RE	2005/03/25 * 12
AT-03	Attenuator	Anritsu	MP721B	RE	2005/07/11 * 12
BA-10	Biconical Antenna	Schwarzbeck	BBA9106	RE	2005/12/12 * 12
APANT12	Logperiodic Antenna	Schwarzbeck	UKLP9140-A	RE	2005/05/16 * 12
SA-07	Spectrum Analyzer	Advantest	R3273	RE	2005/07/11 * 12
TR-02	Test Receiver	Rohde & Schwarz	ESVS30	RE	2005/05/10 * 12
CC-10RC	Yokowa No.1 open coaxial(0.01-1000MHz)	UL Apex	CC-11,CC-12,CC-14, CC-15,CC-16,SW-11,SW-12	RE	2005/03/25 * 12
YOATS-01	Open Test Site	JSE	3m, 10m	RE	2005/04/30 * 12

All equipment is calibrated with traceable calibrations . Each calibration is traceable to the national or international standards .

Test Item :

CE: Conducted emission
 RE: Radiated emission
 AT: Antenna terminal disturbance voltage
 RF: RF output level & spurious
 ATS: Antenna transfer switch
 PS: Picture sensitivity
 NF: Noise figure