

DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.3 OPEN TEST SITE

Report No. : 25HE0265-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V393SU1
Serial No. : -
Power : AC120V/60Hz
Mode : TV Reception+Rec (25dBmV)
Remarks :
Date : 3/29/2005
Test Distance : 3 m
Temperature : 24 °C Engineer : Tomoyuki Yamashita
Humidity : 43 %
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 [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.	1080.03	BB	45.6	52.3	25.3	39.9	3.4	0.0	34.4	41.1	54.0	19.6	12.9
2.	1350.02	BB	42.7	44.0	26.7	39.5	3.8	0.0	33.7	35.0	54.0	20.3	19.0
3.	1620.02	BB	42.5	41.4	28.2	39.1	4.3	0.0	35.9	34.8	54.0	18.1	19.2
4.	1755.03	BB	38.0	46.6	29.1	38.8	4.5	0.0	32.8	41.4	54.0	21.2	12.6

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

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

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YOKOWA No.3 OPEN TEST SITE

Report No. : 25HE0265-YW-1

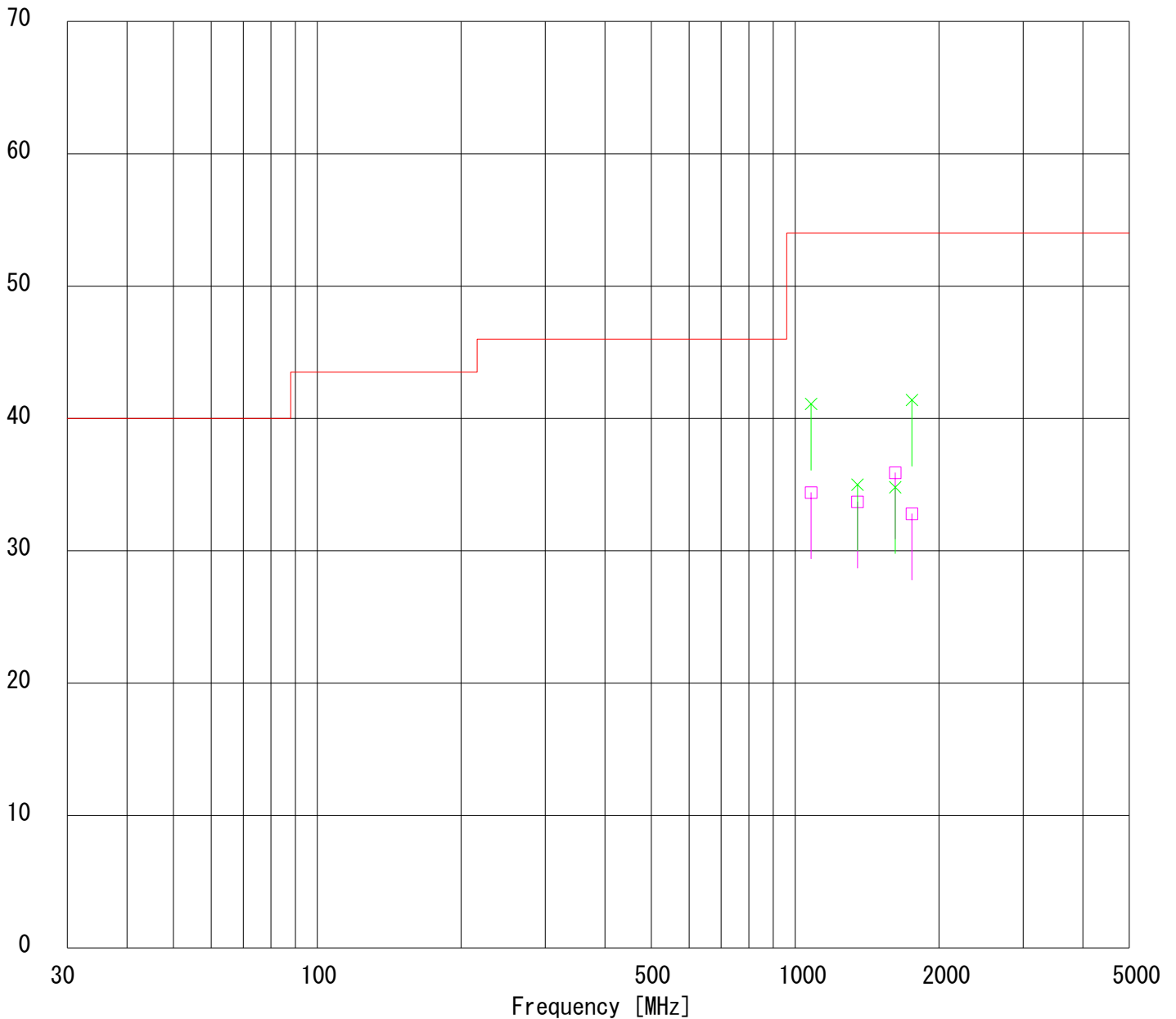
Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V393SU1
Serial No. : -
Power : AC120V/60Hz
Mode : TV Reception+Rec (25dBmV)
Remarks :
Date : 3/29/2005
Test Distance : 3 m
Temperature : 24 °C
Humidity : 43 %
Regulation : FCC Part15B CLASS B (Average Limit / Upper1GHz)

Engineer : Tomoyuki Yamashita

Emission Level [dB μ V/m]

□ Horizontal

× Vertical



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Kind of Equipment : DVD/VCR
Model No. : SD-V393SU1
Serial No. : -
Power : AC120V/60Hz
Mode : TV Reception+Rec (25dBmV)
Remarks :
Date : 3/29/2005
Test Distance : 3 m
Temperature : 24 °C
Humidity : 43 %
Regulation : FCC Part15B CLASS B (Peak Limit / Upper1GHz)

Engineer : Tomoyuki Yamashita

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.	1080.00	BB	50.4	56.5	25.3	39.9	3.4	0.0	39.2	45.3	74.0	34.8	28.7
2.	1350.02	BB	49.8	50.3	26.7	39.5	3.8	0.0	40.8	41.3	74.0	33.2	32.7
3.	1620.02	BB	50.4	49.9	28.2	39.1	4.3	0.0	43.8	43.3	74.0	30.2	30.7
4.	1755.30	BB	48.3	51.5	29.1	38.8	4.5	0.0	43.1	46.3	74.0	30.9	27.7

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

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

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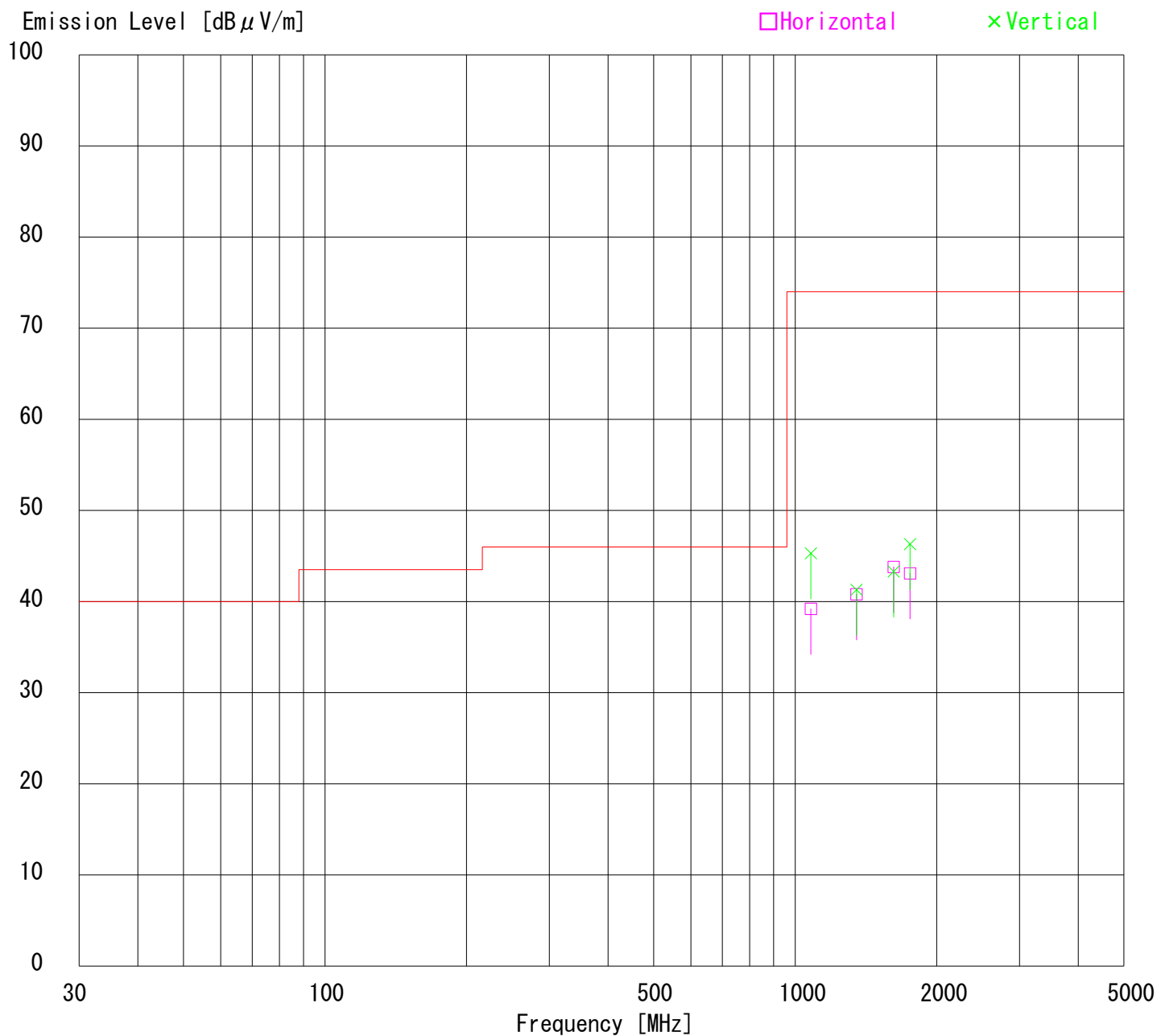
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Power : AC120V/60Hz
Mode : TV Reception+Rec (25dBmV)
Remarks :
Date : 3/29/2005
Test Distance : 3 m
Temperature : 24 °C
Humidity : 43 %
Regulation : FCC Part15B CLASS B (Peak Limit / Upper1GHz)

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Report No. : 25HE0265-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V393SU1
Serial No. : -
Power : AC120V/60Hz
Mode : AV Input1+Rec (1Vp-p)
Remarks :
Date : 4/8/2005
Test Distance : 3 m
Temperature : 24 °C
Humidity : 43 %
Regulation : FCC Part15B CLASS B

Engineer : Tomoyuki Yamashita

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.	945.00	BB	25.8	30.7	26.1	27.1	7.8	6.0	38.6	43.5	46.0	7.4	2.5

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

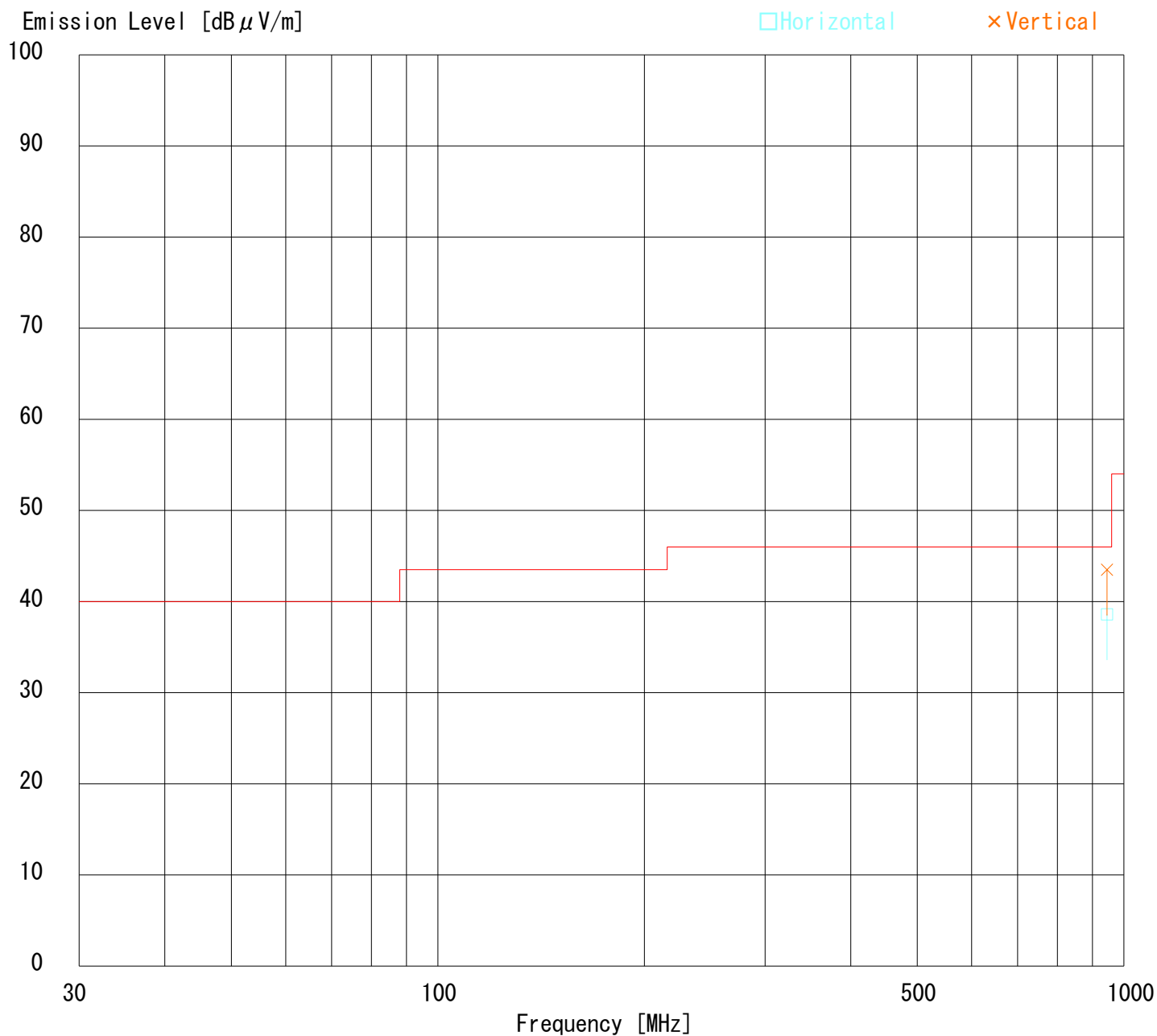
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Kind of Equipment : DVD/VCR
Model No. : SD-V393SU1
Serial No. : -
Power : AC120V/60Hz
Mode : AV Input1+Rec (1Vp-p)
Remarks :
Date : 4/8/2005
Test Distance : 3 m
Temperature : 24 °C
Humidity : 43 %
Regulation : FCC Part15B CLASS B

Engineer : Tomoyuki Yamashita



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Applicant : Orion Electric Co.,Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V393SU1
Serial No. : -
Power : AC120V/60Hz
Mode : AV Input1+Rec(5Vp-p)
Remarks :
Date : 4/8/2005
Test Distance : 3 m
Temperature : 24
Humidity : 43 %
Regulation : FCC Part15B CLASS B

Engineer : Tomoyuki Yamashita

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	14.4	27.9	2.4	5.9	27.8	27.8	43.5	15.7	15.7
2.	189.00	BB	25.9	28.5	16.7	27.9	3.0	5.9	23.6	26.2	43.5	19.9	17.3
3.	202.51	BB	36.1	35.0	17.1	27.8	3.1	5.9	34.4	33.3	43.5	9.1	10.2
4.	270.00	BB	39.0	30.9	18.5	27.8	3.7	6.0	39.4	31.3	46.0	6.6	14.7
5.	337.50	BB	33.7	33.8	17.1	27.9	4.2	6.0	33.1	33.2	46.0	12.9	12.8
6.	405.01	BB	33.7	34.3	17.9	28.0	4.7	6.0	34.3	34.9	46.0	11.7	11.1
7.	459.00	BB	32.7	32.1	18.8	28.0	5.0	6.0	34.5	33.9	46.0	11.5	12.1
8.	540.00	BB	30.7	32.1	19.8	27.9	5.5	6.0	34.1	35.5	46.0	11.9	10.5
9.	675.01	BB	32.8	35.1	22.0	27.3	6.3	5.9	39.7	42.0	46.0	6.3	4.0
10.	810.03	BB	27.1	28.1	23.3	27.1	7.0	6.0	36.3	37.3	46.0	9.7	8.7
11.	945.02	BB	25.8	30.7	26.1	27.1	7.8	6.0	38.6	43.5	46.0	7.4	2.5

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

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

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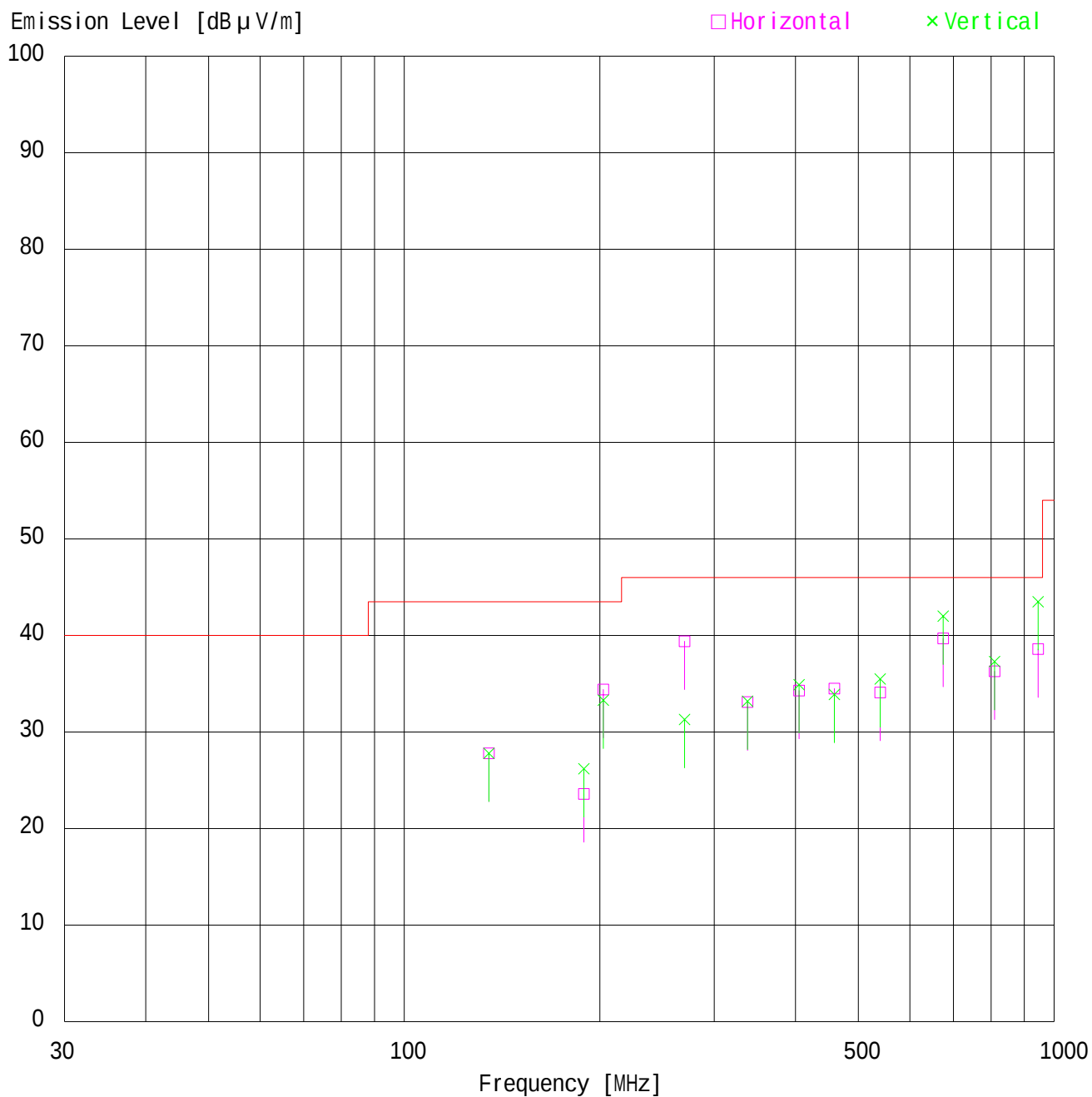
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Report No. : 25HE0265-YW-1

Applicant : Orion Electric Co.,Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V393SU1
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Power : AC120V/60Hz
Mode : AV Input1+Rec(5Vp-p)
Remarks :
Date : 4/8/2005
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Temperature : 24
Humidity : 43 %
Regulation : FCC Part15B CLASS B

Engineer : Tomoyuki Yamashita



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Power : AC120V/60Hz
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Remarks :
Date : 3/29/2005
Test Distance : 3 m
Temperature : 24 °C Engineer : Tomoyuki Yamashita
Humidity : 43 %
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 [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.	1080.02	BB	46.4	51.7	25.3	39.9	3.4	0.0	35.2	40.5	54.0	18.8	13.5
2.	1350.05	BB	44.5	44.5	26.7	39.5	3.8	0.0	35.5	35.5	54.0	18.5	18.5
3.	1620.02	BB	41.9	42.2	28.2	39.1	4.3	0.0	35.3	35.6	54.0	18.7	18.4
4.	1755.04	BB	38.5	46.5	29.1	38.8	4.5	0.0	33.3	41.3	54.0	20.7	12.7

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

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

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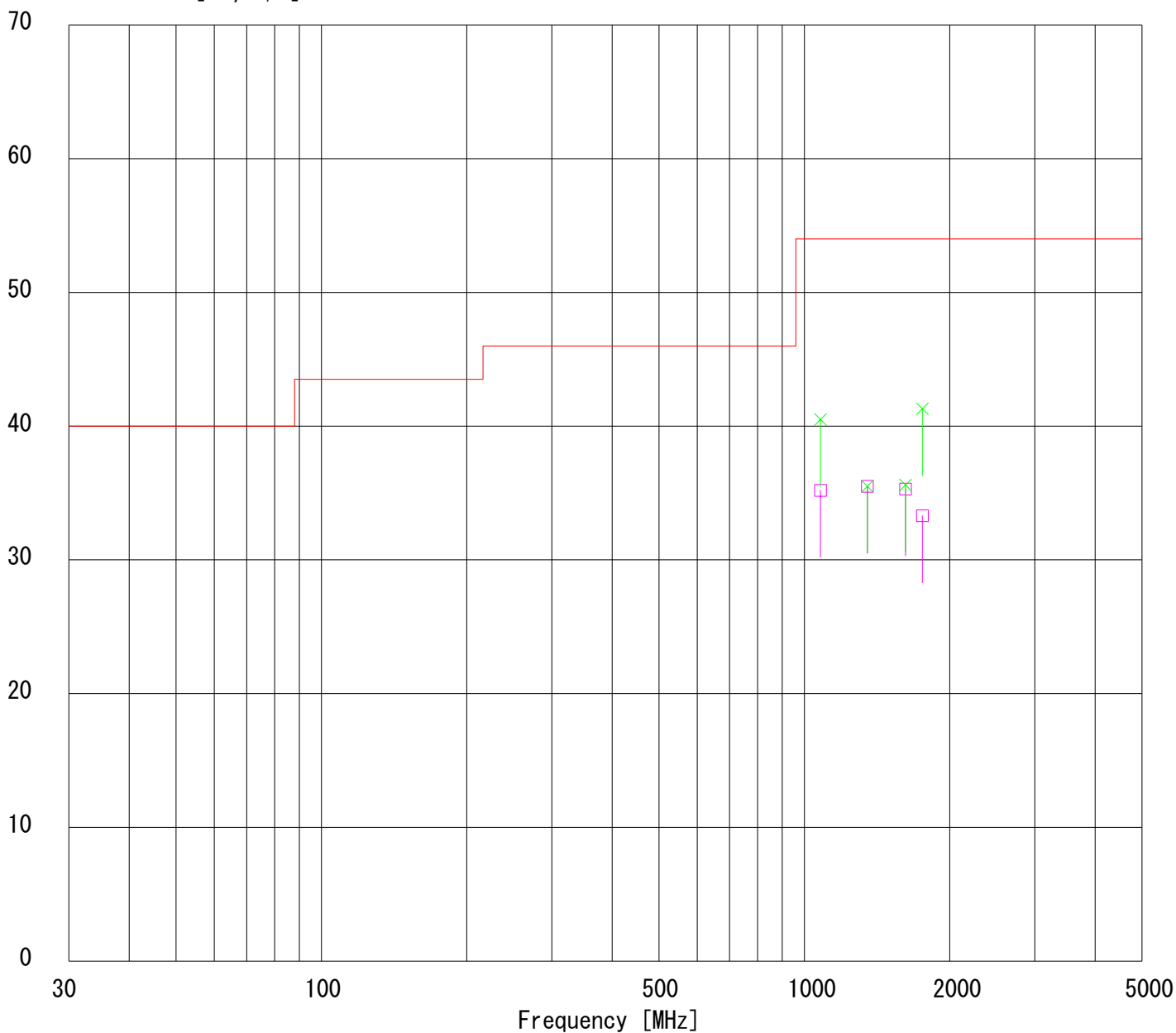
Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V393SU1
Serial No. : -
Power : AC120V/60Hz
Mode : AV Input1+Rec (5Vp-p)
Remarks :
Date : 3/29/2005
Test Distance : 3 m
Temperature : 24 °C
Humidity : 43 %
Regulation : FCC Part15B CLASS B (Average Limit / Upper1GHz)

Engineer : Tomoyuki Yamashita

Emission Level [dB μ V/m]

□ Horizontal

× Vertical



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			HOR [dB μ V]	VER [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]		HOR [dB]	VER [dB]
1.	1080.02	BB	52.7	56.3	25.3	39.9	3.4	0.0	41.5	45.1	74.0	32.5	28.9
2.	1350.05	BB	50.7	50.8	26.7	39.5	3.8	0.0	41.7	41.8	74.0	32.3	32.2
3.	1620.02	BB	50.0	50.1	28.2	39.1	4.3	0.0	43.4	43.5	74.0	30.6	30.5
4.	1755.04	BB	47.7	51.7	29.1	38.8	4.5	0.0	42.5	46.5	74.0	31.5	27.5

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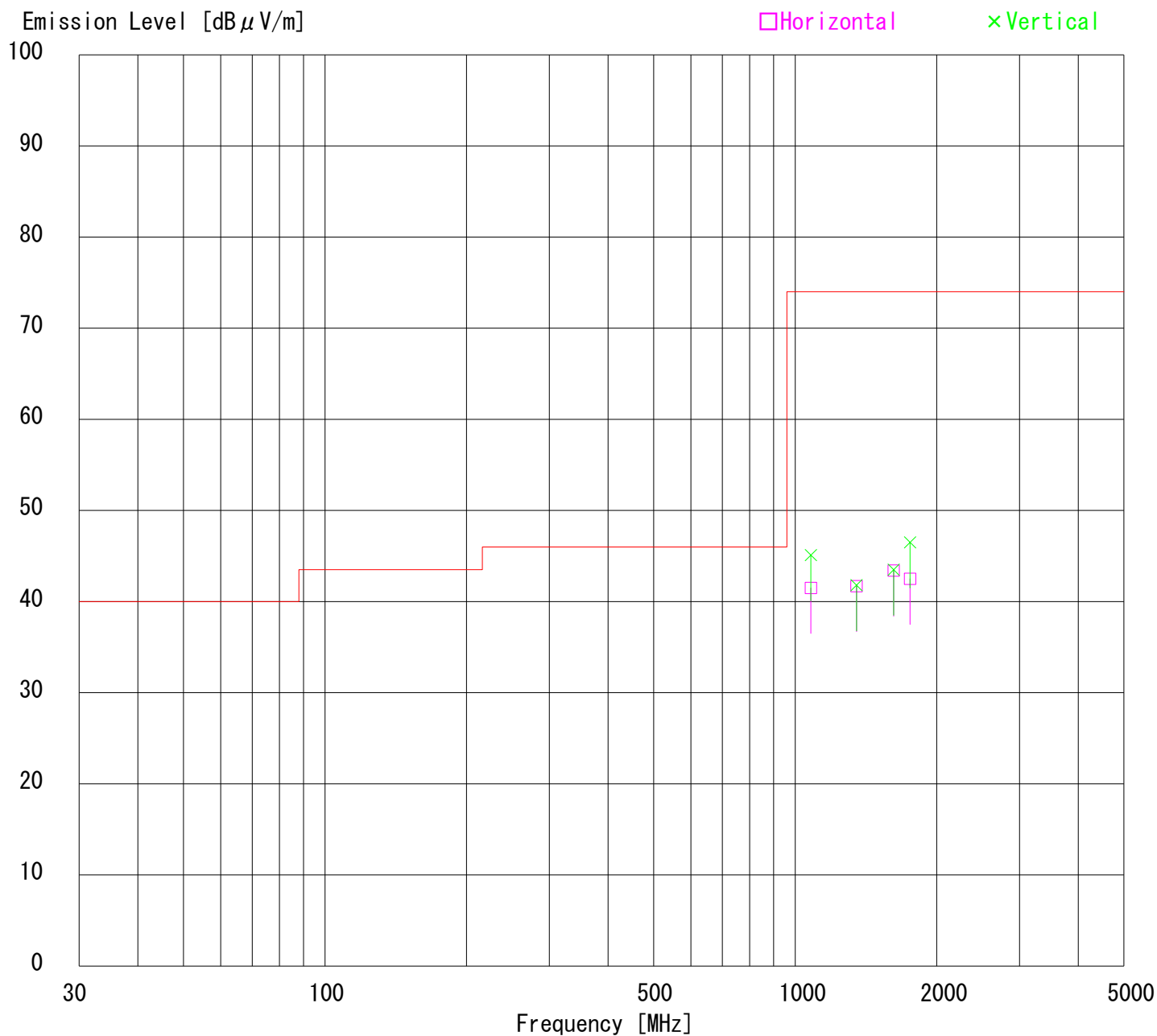
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Applicant : Orion Electric Co., Ltd.
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Model No. : SD-V393SU1
Serial No. : -
Power : AC120V/60Hz
Mode : AV Input2+Rec (1Vp-p)
Remarks :
Date : 4/8/2005
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Humidity : 43 %
Regulation : FCC Part15B CLASS B

Engineer : Tomoyuki Yamashita

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.	945.00	BB	28.0	30.6	26.1	27.1	7.8	6.0	40.8	43.4	46.0	5.2	2.6

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

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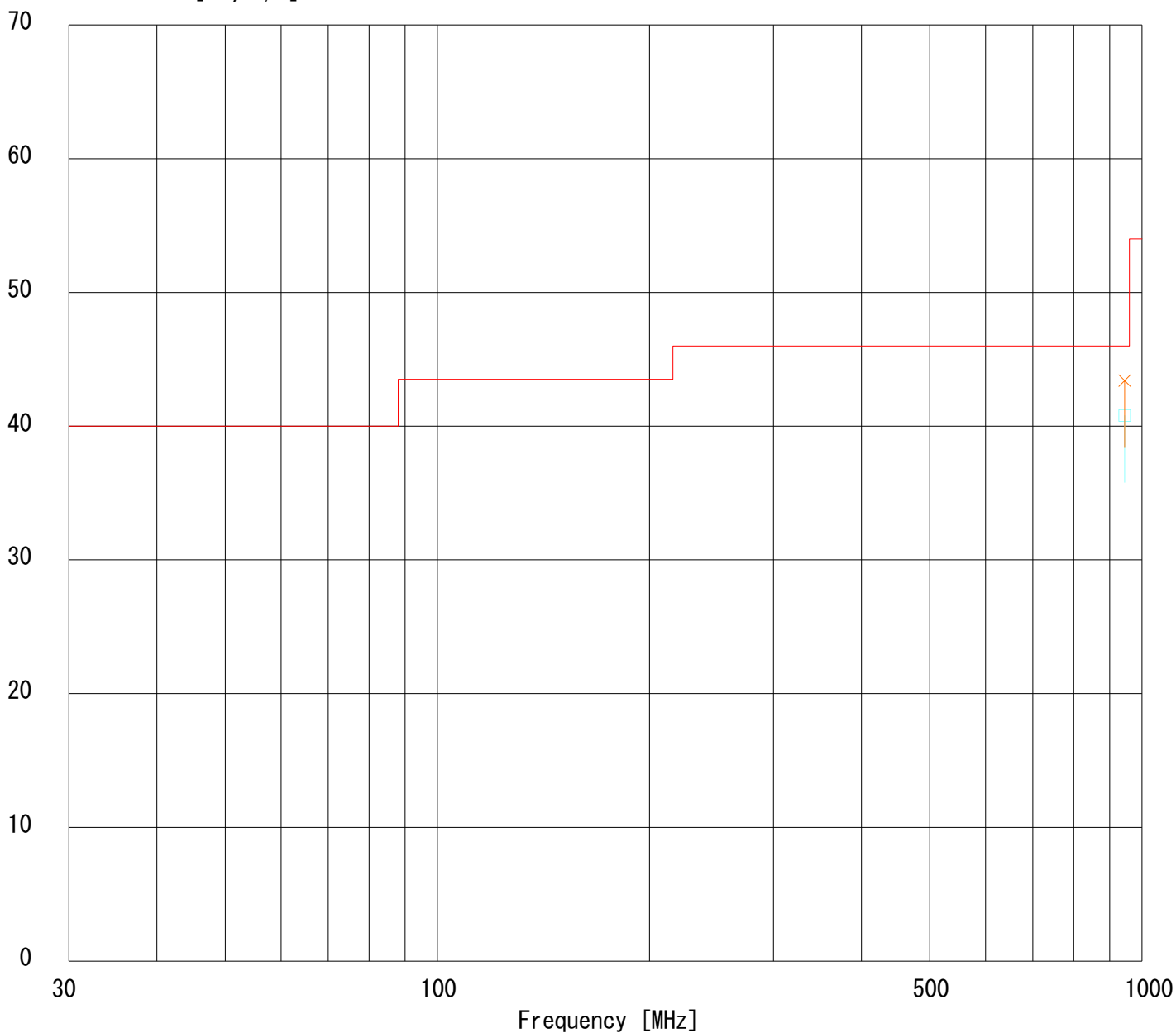
Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V393SU1
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Power : AC120V/60Hz
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Remarks :
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Engineer : Tomoyuki Yamashita

Emission Level [dB μ V/m]

□ Horizontal

× Vertical



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			HOR [dB μV]	VER [dB μV]					HOR [dB μV/m]	VER [dB μV/m]		HOR [dB]	VER [dB]
1.	135.00	BB	36.6	41.5	14.4	27.9	2.4	5.9	31.4	36.3	43.5	12.1	7.2
2.	189.00	BB	28.0	28.8	16.7	27.9	3.0	5.9	25.7	26.5	43.5	17.8	17.0
3.	202.51	BB	37.2	34.3	17.1	27.8	3.1	5.9	35.5	32.6	43.5	8.0	10.9
4.	270.00	BB	39.7	31.3	18.5	27.8	3.7	6.0	40.1	31.7	46.0	5.9	14.3
5.	337.50	BB	34.0	34.1	17.1	27.9	4.2	6.0	33.4	33.5	46.0	12.6	12.5
6.	405.00	BB	35.0	35.2	17.9	28.0	4.7	6.0	35.6	35.8	46.0	10.4	10.2
7.	459.01	BB	33.5	32.9	18.8	28.0	5.0	6.0	35.3	34.7	46.0	10.7	11.3
8.	540.02	BB	29.6	31.6	19.8	27.9	5.5	6.0	33.0	35.0	46.0	13.0	11.0
9.	675.00	BB	31.8	37.2	22.0	27.3	6.3	6.0	38.8	44.2	46.0	7.2	1.8
10.	810.00	BB	27.0	28.3	23.3	27.1	7.0	6.0	36.2	37.5	46.0	9.8	8.5
11.	945.00	BB	27.6	30.7	26.1	27.1	7.8	6.0	40.4	43.5	46.0	5.6	2.5

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

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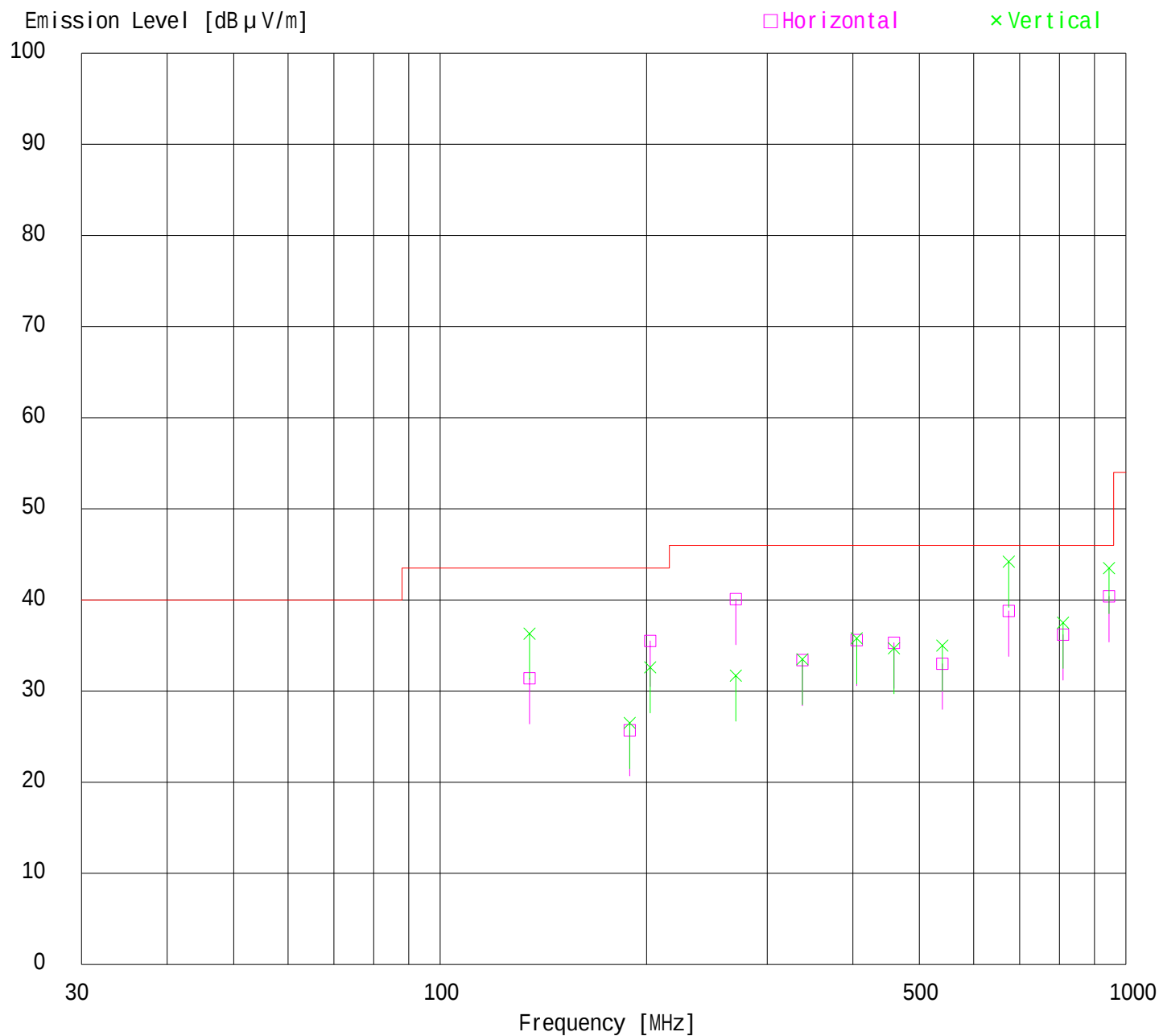
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			HOR [dB μ V]	VER [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]		HOR [dB]	VER [dB]
1.	1080.00	BB	45.6	51.7	25.3	39.9	3.4	0.0	34.4	40.5	54.0	19.6	13.5
2.	1349.98	BB	44.4	45.3	26.6	39.5	3.8	0.0	35.3	36.2	54.0	18.7	17.8
3.	1619.99	BB	42.4	41.2	28.2	39.1	4.3	0.0	35.8	34.6	54.0	18.2	19.4
4.	1755.03	BB	39.0	46.9	29.1	38.8	4.5	0.0	33.8	41.7	54.0	20.2	12.3

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

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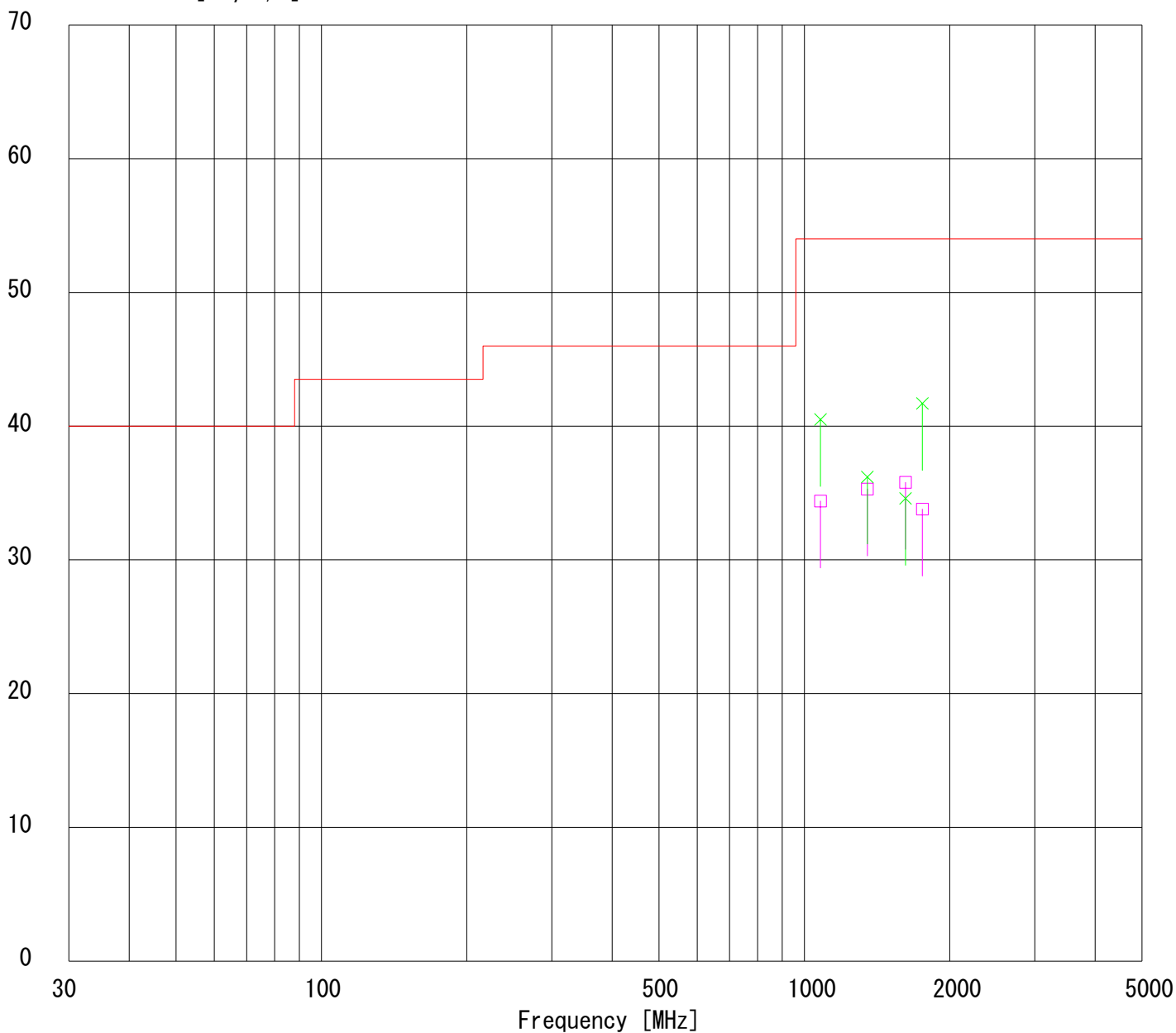
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Engineer : Tomoyuki Yamashita

Emission Level [dB μ V/m]

□ Horizontal

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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.	1080.00	BB	52.3	55.7	25.3	39.9	3.4	0.0	41.1	44.5	74.0	32.9	29.5
2.	1349.98	BB	50.4	51.3	26.6	39.5	3.8	0.0	41.3	42.2	74.0	32.7	31.8
3.	1619.99	BB	51.3	50.5	28.2	39.1	4.3	0.0	44.7	43.9	74.0	29.3	30.1
4.	1755.00	BB	48.4	51.6	29.1	38.8	4.5	0.0	43.2	46.4	74.0	30.8	27.6

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

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

DATA OF RADIATION TEST

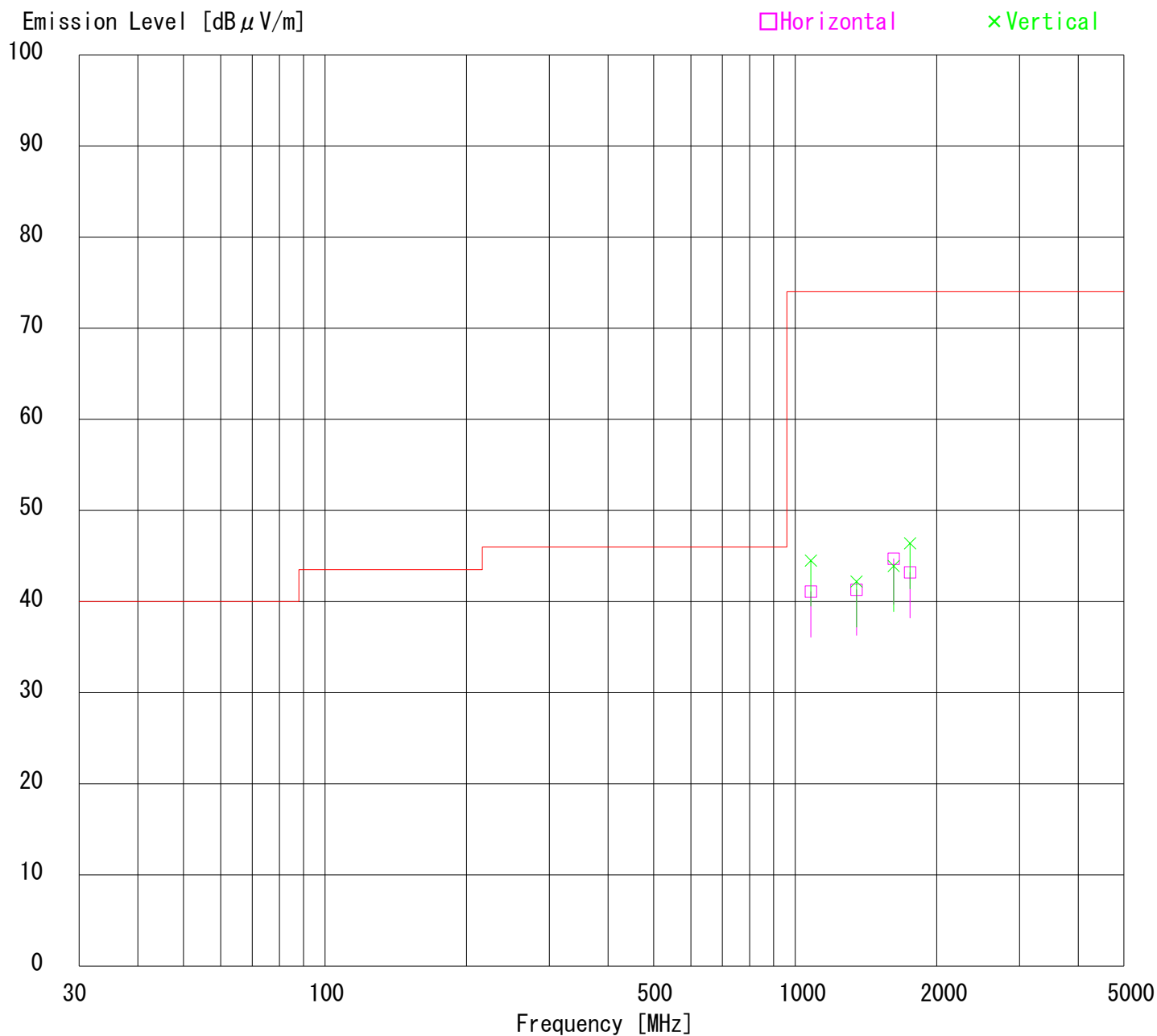
UL Apex Co., Ltd.

YOKOWA No.3 OPEN TEST SITE

Report No. : 25HE0265-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V393SU1
Serial No. : -
Power : AC120V/60Hz
Mode : AV Input2+Rec (5Vp-p)
Remarks :
Date : 3/29/2005
Test Distance : 3 m
Temperature : 24 °C
Humidity : 43 %
Regulation : FCC Part15B CLASS B (Peak Limit / Upper1GHz)

Engineer : Tomoyuki Yamashita



DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.3 OPEN TEST SITE

Report No. : 25HE0265-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V393SU1
Serial No. : -
Power : AC120V/60Hz
Mode : VCR Playback
Remarks :
Date : 3/29/2005
Test Distance : 3 m
Temperature : 24 °C
Humidity : 43 %
Regulation : FCC Part15B CLASS B

Engineer : Tomoyuki Yamashita

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.	108.00	BB	27.5	30.9	11.4	28.0	2.2	5.9	19.0	22.4	43.5	24.5	21.1
2.	135.00	BB	34.7	36.8	14.4	27.9	2.4	5.9	29.5	31.6	43.5	14.0	11.9
3.	189.00	BB	31.8	28.8	16.7	27.9	3.0	5.9	29.5	26.5	43.5	14.0	17.0
4.	202.50	BB	37.1	28.5	17.1	27.8	3.1	5.9	35.4	26.8	43.5	8.1	16.7
5.	270.00	BB	40.9	37.7	18.5	27.8	3.7	6.0	41.3	38.1	46.0	4.7	7.9
6.	337.53	BB	33.6	36.5	17.1	27.9	4.2	6.0	33.0	35.9	46.0	13.0	10.1
7.	405.01	BB	38.2	37.8	17.9	28.0	4.7	6.0	38.8	38.4	46.0	7.2	7.6
8.	459.01	BB	32.0	30.1	18.8	28.0	5.0	6.0	33.8	31.9	46.0	12.2	14.1
9.	540.00	BB	27.1	33.2	19.8	27.9	5.5	6.0	30.5	36.6	46.0	15.5	9.4
10.	675.00	BB	31.0	35.5	22.0	27.3	6.3	6.0	38.0	42.5	46.0	8.0	3.5
11.	810.00	BB	25.6	26.0	23.3	27.1	7.0	6.0	34.8	35.2	46.0	11.2	10.8
12.	945.03	BB	26.5	30.8	26.1	27.1	7.8	6.0	39.3	43.6	46.0	6.7	2.4

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

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

DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.3 OPEN TEST SITE

Report No. : 25HE0265-YW-1

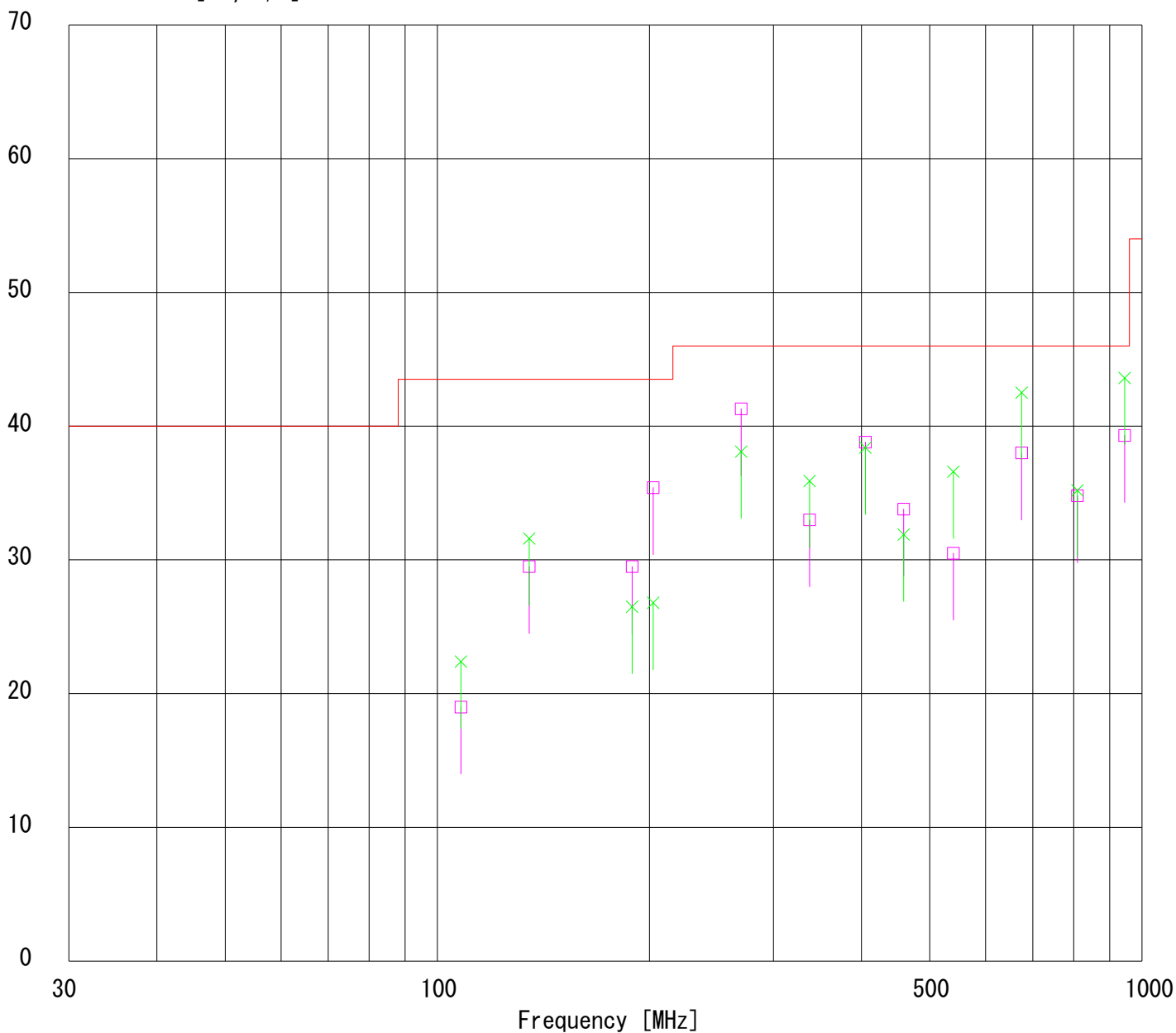
Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V393SU1
Serial No. : -
Power : AC120V/60Hz
Mode : VCR Playback
Remarks :
Date : 3/29/2005
Test Distance : 3 m
Temperature : 24 °C
Humidity : 43 %
Regulation : FCC Part15B CLASS B

Engineer : Tomoyuki Yamashita

Emission Level [dB μ V/m]

□ Horizontal

× Vertical



DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.3 OPEN TEST SITE

Report No. : 25HE0265-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V393SU1
Serial No. : -
Power : AC120V/60Hz
Mode : VCR Playback
Remarks :
Date : 3/29/2005
Test Distance : 3 m
Temperature : 24 °C Engineer : Tomoyuki Yamashita
Humidity : 43 %
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 [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.	1080.02	BB	43.4	49.4	25.3	39.9	3.4	0.0	32.2	38.2	54.0	21.8	15.8
2.	1350.00	BB	37.7	42.6	26.7	39.5	3.8	0.0	28.7	33.6	54.0	25.3	20.4
3.	1620.00	BB	44.2	42.8	28.2	39.1	4.3	0.0	37.6	36.2	54.0	16.4	17.8
4.	1755.01	BB	39.1	47.9	29.1	38.8	4.5	0.0	33.9	42.7	54.0	20.1	11.3

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

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

DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.3 OPEN TEST SITE

Report No. : 25HE0265-YW-1

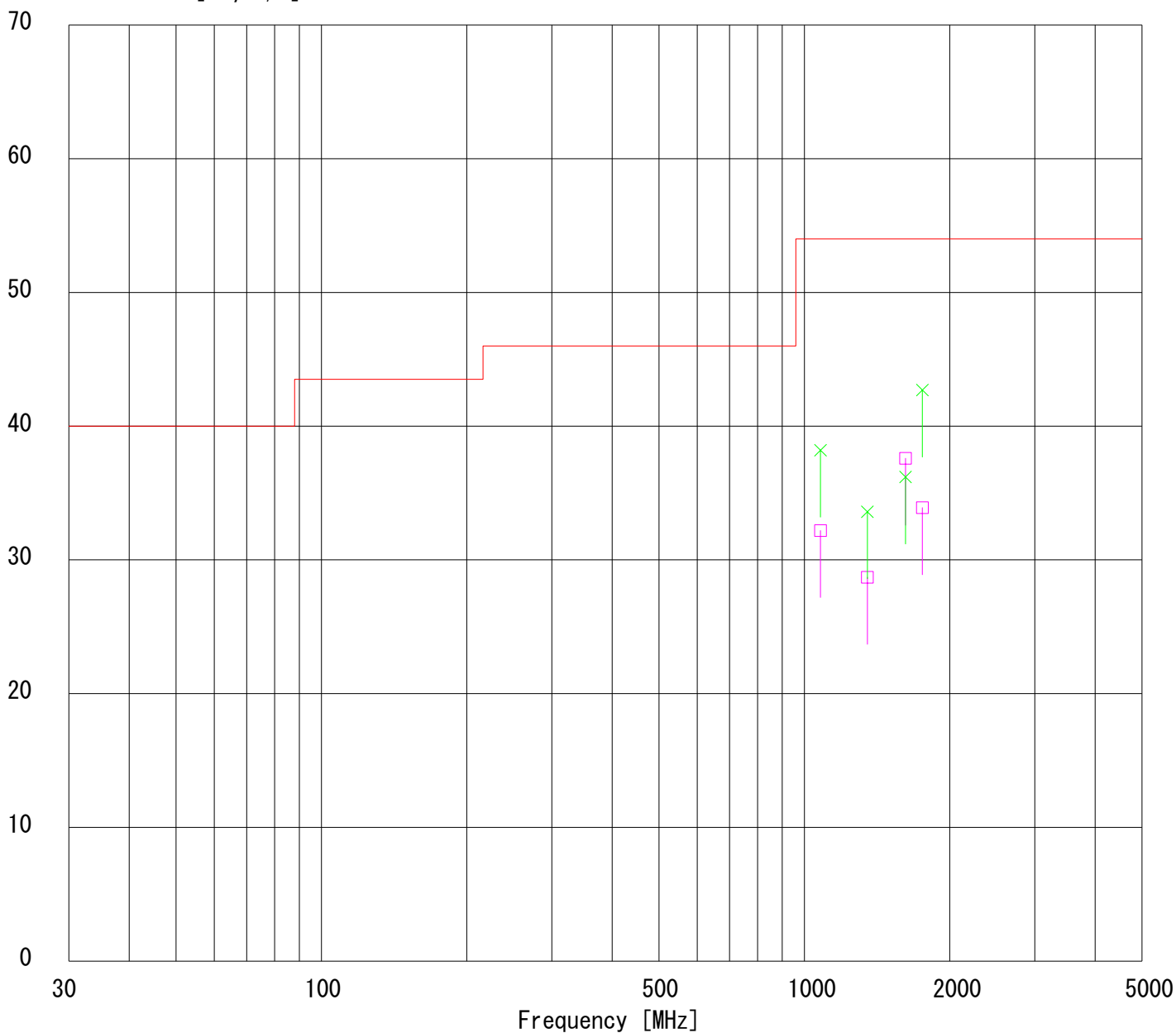
Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V393SU1
Serial No. : -
Power : AC120V/60Hz
Mode : VCR Playback
Remarks :
Date : 3/29/2005
Test Distance : 3 m
Temperature : 24 °C
Humidity : 43 %
Regulation : FCC Part15B CLASS B (Average Limit / Upper1GHz)

Engineer : Tomoyuki Yamashita

Emission Level [dB μ V/m]

□ Horizontal

× Vertical



DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.3 OPEN TEST SITE

Report No. : 25HE0265-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V393SU1
Serial No. : -
Power : AC120V/60Hz
Mode : VCR Playback
Remarks :
Date : 3/29/2005
Test Distance : 3 m
Temperature : 24 °C
Humidity : 43 %
Regulation : FCC Part15B CLASS B (Peak Limit / Upper1GHz)

Engineer : Tomoyuki Yamashita

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.	1080.02	BB	50.8	54.7	25.3	39.9	3.4	0.0	39.6	43.5	74.0	34.4	30.5
2.	1350.00	BB	48.4	50.1	26.7	39.5	3.8	0.0	39.4	41.1	74.0	34.6	32.9
3.	1620.00	BB	51.0	50.2	28.2	39.1	4.3	0.0	44.4	43.6	74.0	29.6	30.4
4.	1755.01	BB	48.1	52.6	29.1	38.8	4.5	0.0	42.9	47.4	74.0	31.1	26.6

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

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

DATA OF RADIATION TEST

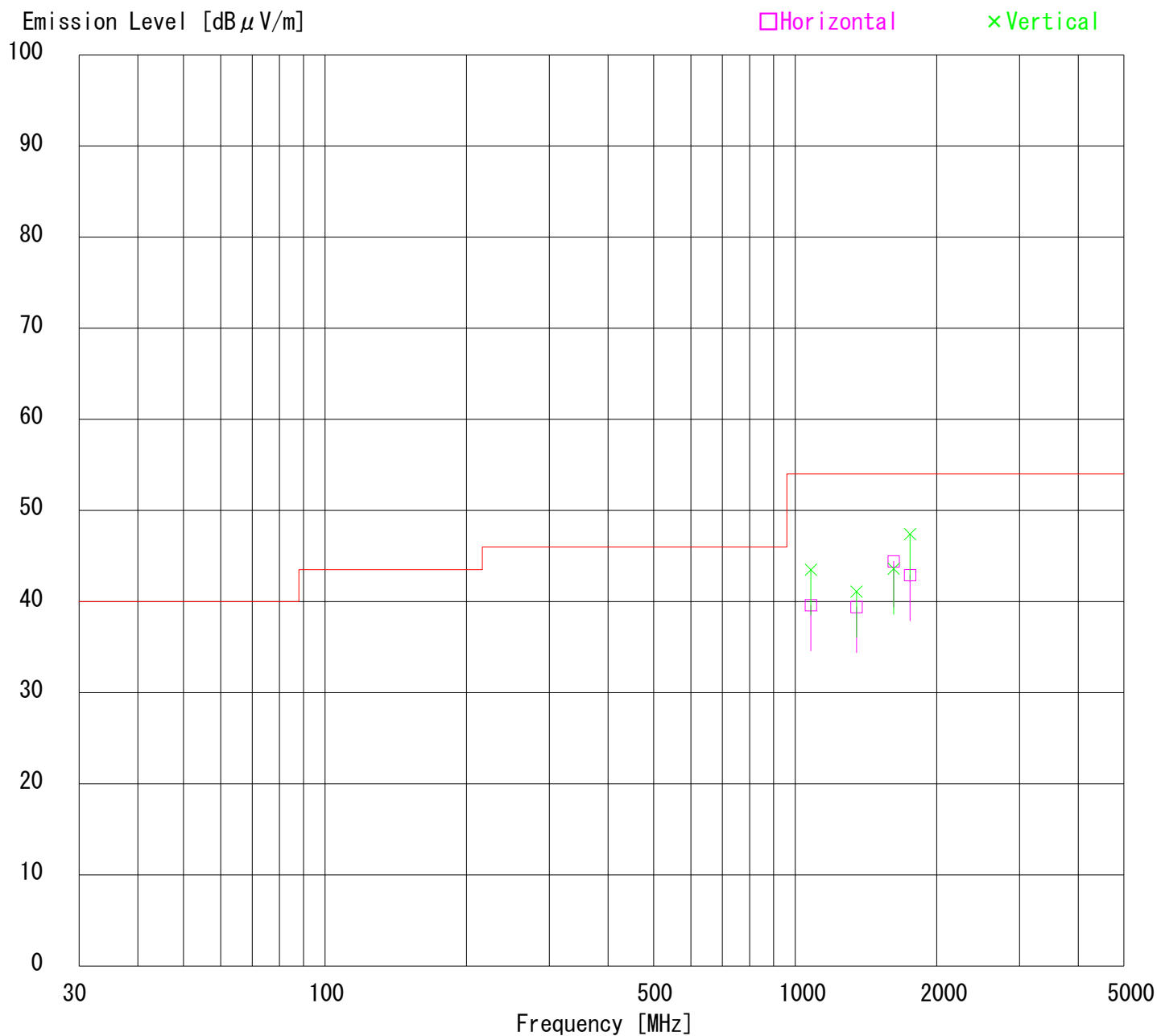
UL Apex Co., Ltd.

YOKOWA No.3 OPEN TEST SITE

Report No. : 25HE0265-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V393SU1
Serial No. : -
Power : AC120V/60Hz
Mode : VCR Playback
Remarks :
Date : 3/29/2005
Test Distance : 3 m
Temperature : 24 °C
Humidity : 43 %
Regulation : FCC Part15B CLASS B (Peak Limit / Upper1GHz)

Engineer : Tomoyuki Yamashita



DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.3 OPEN TEST SITE

Report No. : 25HE0265-YW-1

Applicant : Orion Electric Co., Ltd.
 Kind of Equipment : DVD/VCR
 Model No. : SD-V393SU1
 Serial No. : -
 Power : AC120V/60Hz
 Mode : DVD Play
 Remarks :
 Date : 4/8/2005
 Test Distance : 3 m
 Temperature : 24 °C
 Humidity : 43 %
 Regulation : FCC Part15B CLASS B

Engineer : Tomoyuki Yamashita

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.	108.00	BB	28.0	30.2	11.4	28.0	2.2	5.9	19.5	21.7	43.5	24.0	21.8
2.	135.00	BB	35.1	35.2	14.4	27.9	2.4	5.9	29.9	30.0	43.5	13.6	13.5
3.	189.01	BB	33.3	29.0	16.7	27.9	3.0	5.9	31.0	26.7	43.5	12.5	16.8
4.	202.52	BB	37.1	32.4	17.1	27.8	3.1	5.9	35.4	30.7	43.5	8.1	12.8
5.	216.00	BB	34.2	27.3	17.2	27.8	3.2	5.9	32.7	25.8	43.5	10.8	17.7
6.	270.00	BB	39.5	42.0	18.5	27.8	3.7	6.0	39.9	42.4	46.0	6.1	3.6
7.	337.50	BB	32.4	38.2	17.1	27.9	4.2	6.0	31.8	37.6	46.0	14.2	8.4
8.	344.65	BB	30.5	37.6	17.2	27.9	4.3	6.0	30.1	37.2	46.0	15.9	8.8
9.	405.03	BB	39.5	37.0	17.9	28.0	4.7	6.0	40.1	37.6	46.0	5.9	8.4
10.	459.01	BB	32.0	30.0	18.8	28.0	5.0	6.0	33.8	31.8	46.0	12.2	14.2
11.	540.01	BB	32.4	33.3	19.8	27.9	5.5	6.0	35.8	36.7	46.0	10.2	9.3
12.	675.00	BB	31.8	34.7	22.0	27.3	6.3	6.0	38.8	41.7	46.0	7.2	4.3
13.	810.03	BB	28.8	31.6	23.3	27.1	7.0	6.0	38.0	40.8	46.0	8.0	5.2
14.	945.03	BB	28.3	30.4	26.1	27.1	7.8	6.0	41.1	43.2	46.0	4.9	2.8
15.	972.00	BB	23.0	25.5	27.1	27.3	7.9	6.0	36.7	39.2	54.0	17.3	14.8

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

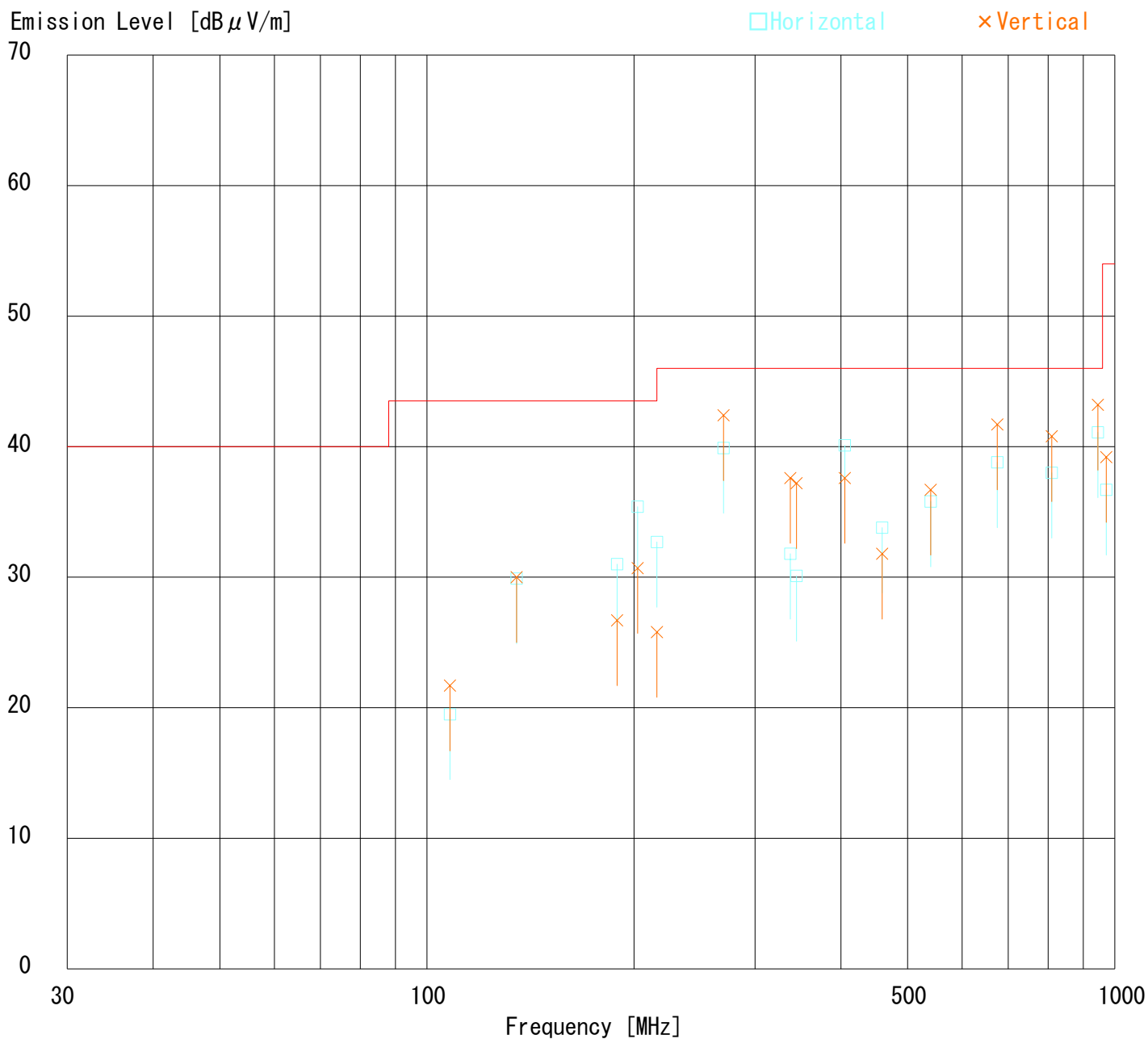
UL Apex Co., Ltd.

YOKOWA No.3 OPEN TEST SITE

Report No. : 25HE0265-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V393SU1
Serial No. : -
Power : AC120V/60Hz
Mode : DVD Play
Remarks :
Date : 4/8/2005
Test Distance : 3 m
Temperature : 24 °C
Humidity : 43 %
Regulation : FCC Part15B CLASS B

Engineer : Tomoyuki Yamashita



DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.3 OPEN TEST SITE

Report No. : 25HE0265-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V393SU1
Serial No. : -
Power : AC120V/60Hz
Mode : DVD Play
Remarks :
Date : 3/29/2005
Test Distance : 3 m
Temperature : 24 °C
Humidity : 43 %
Regulation : FCC Part15B CLASS B (Average Limit / Upper1GHz)

Engineer : Tomoyuki Yamashita

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.	1080.00	BB	47.8	54.4	25.3	39.9	3.4	0.0	36.6	43.2	54.0	17.4	10.8
2.	1214.97	BB	41.6	49.0	26.0	39.7	3.6	0.0	31.5	38.9	54.0	22.5	15.1
3.	1349.90	BB	42.4	45.2	26.6	39.5	3.8	0.0	33.3	36.1	54.0	20.7	17.9
4.	1620.00	BB	43.6	41.2	28.2	39.1	4.3	0.0	37.0	34.6	54.0	17.0	19.4
5.	1754.98	BB	42.8	46.2	29.1	38.8	4.5	0.0	37.6	41.0	54.0	16.4	13.0

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

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

DATA OF RADIATION TEST

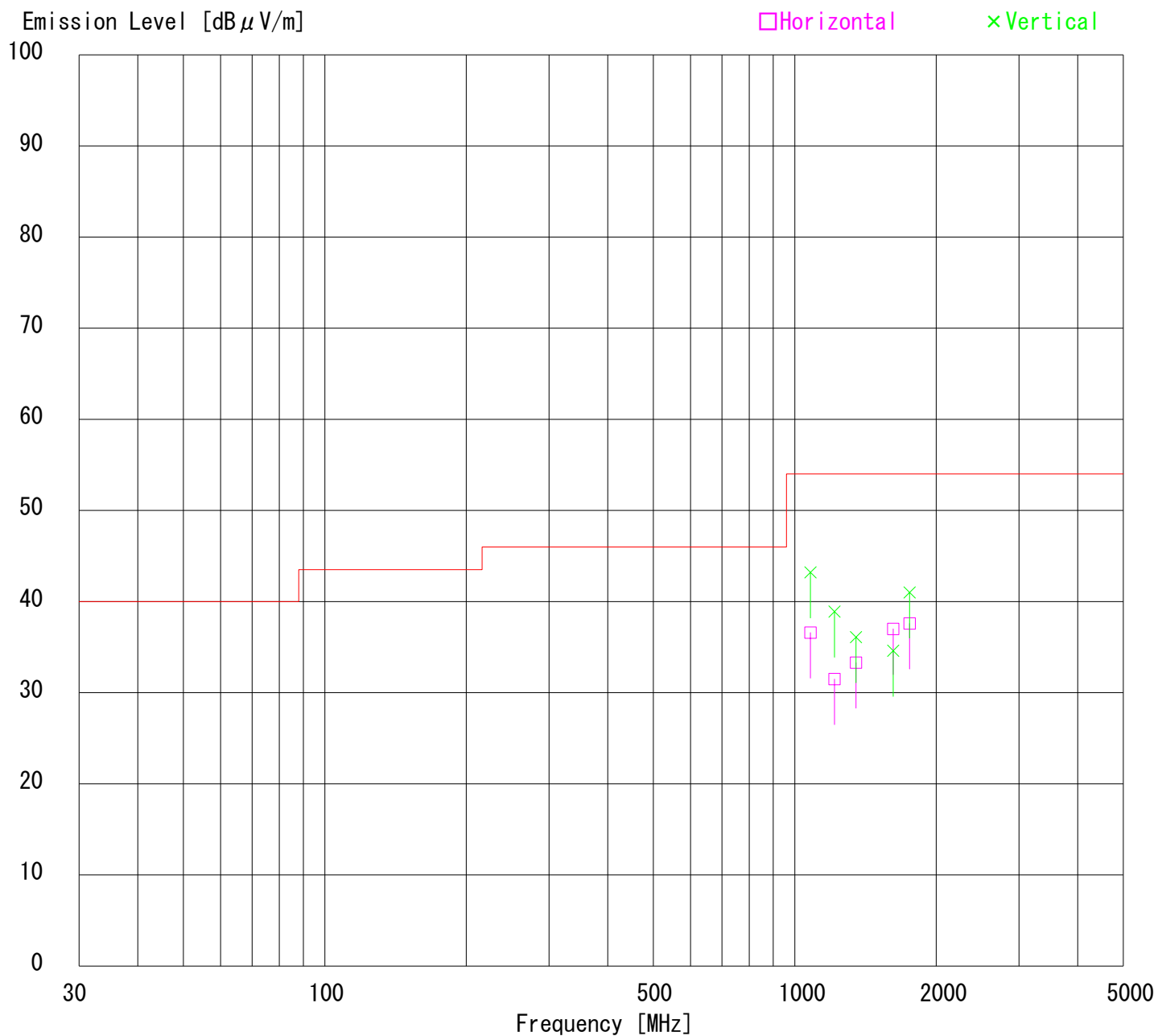
UL Apex Co., Ltd.

YOKOWA No.3 OPEN TEST SITE

Report No. : 25HE0265-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V393SU1
Serial No. : -
Power : AC120V/60Hz
Mode : DVD Play
Remarks :
Date : 3/29/2005
Test Distance : 3 m
Temperature : 24 °C
Humidity : 43 %
Regulation : FCC Part15B CLASS B (Average Limit / Upper1GHz)

Engineer : Tomoyuki Yamashita



DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.3 OPEN TEST SITE

Report No. : 25HE0265-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V393SU1
Serial No. : -
Power : AC120V/60Hz
Mode : DVD Play
Remarks :
Date : 3/29/2005
Test Distance : 3 m
Temperature : 24 °C Engineer : Tomoyuki Yamashita
Humidity : 43 %
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.	1080.00	BB	55.4	60.3	25.3	39.9	3.4	0.0	44.2	49.1	74.0	29.8	24.9
2.	1214.97	BB	53.0	59.1	26.0	39.7	3.6	0.0	42.9	49.0	74.0	31.1	25.0
3.	1349.90	BB	56.0	57.3	26.6	39.5	3.8	0.0	46.9	48.2	74.0	27.1	25.8
4.	1620.00	BB	54.0	54.6	28.2	39.1	4.3	0.0	47.4	48.0	74.0	26.6	26.0
5.	1754.98	BB	50.5	53.6	29.1	38.8	4.5	0.0	45.3	48.4	74.0	28.7	25.6

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

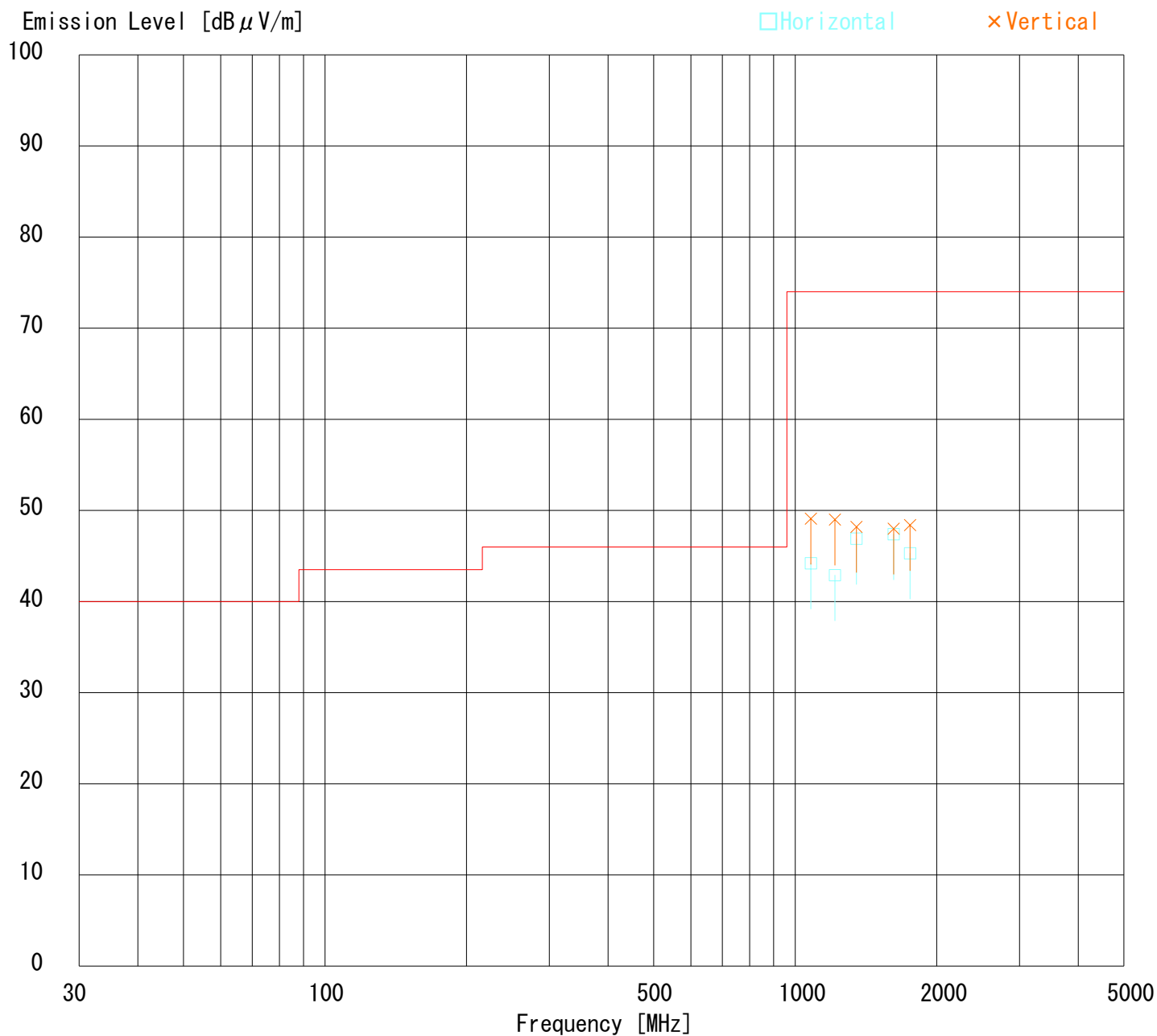
UL Apex Co., Ltd.

YOKOWA No.3 OPEN TEST SITE

Report No. : 25HE0265-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V393SU1
Serial No. : -
Power : AC120V/60Hz
Mode : DVD Play
Remarks :
Date : 3/29/2005
Test Distance : 3 m
Temperature : 24 °C
Humidity : 43 %
Regulation : FCC Part15B CLASS B (Peak Limit / Upper1GHz)

Engineer : Tomoyuki Yamashita



DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.3 OPEN TEST SITE

Report No. : 25HE0265-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V393SU1
Serial No. : -
Power : AC120/60Hz
Mode : AV Input2+Rec (5Vp-p)
Remarks : Test Channel #3
Date : 4/8/2004
Test Distance : 3 m
Temperature : 21 °C
Humidity : 41 %
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.	61.25	BB	23.0	24.1	8.2	28.1	1.6	5.9	10.6	11.7	40.0	29.4	28.3
2.	65.75	BB	23.4	23.1	7.3	28.1	1.7	5.9	10.2	9.9	40.0	29.8	30.1
3.	122.50	BB	23.3	24.6	13.7	27.9	2.3	5.9	17.3	18.6	43.5	26.2	24.9
4.	245.00	BB	22.3	22.6	17.3	27.8	3.5	5.9	21.2	21.5	46.0	24.8	24.5

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

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

DATA OF RADIATION TEST

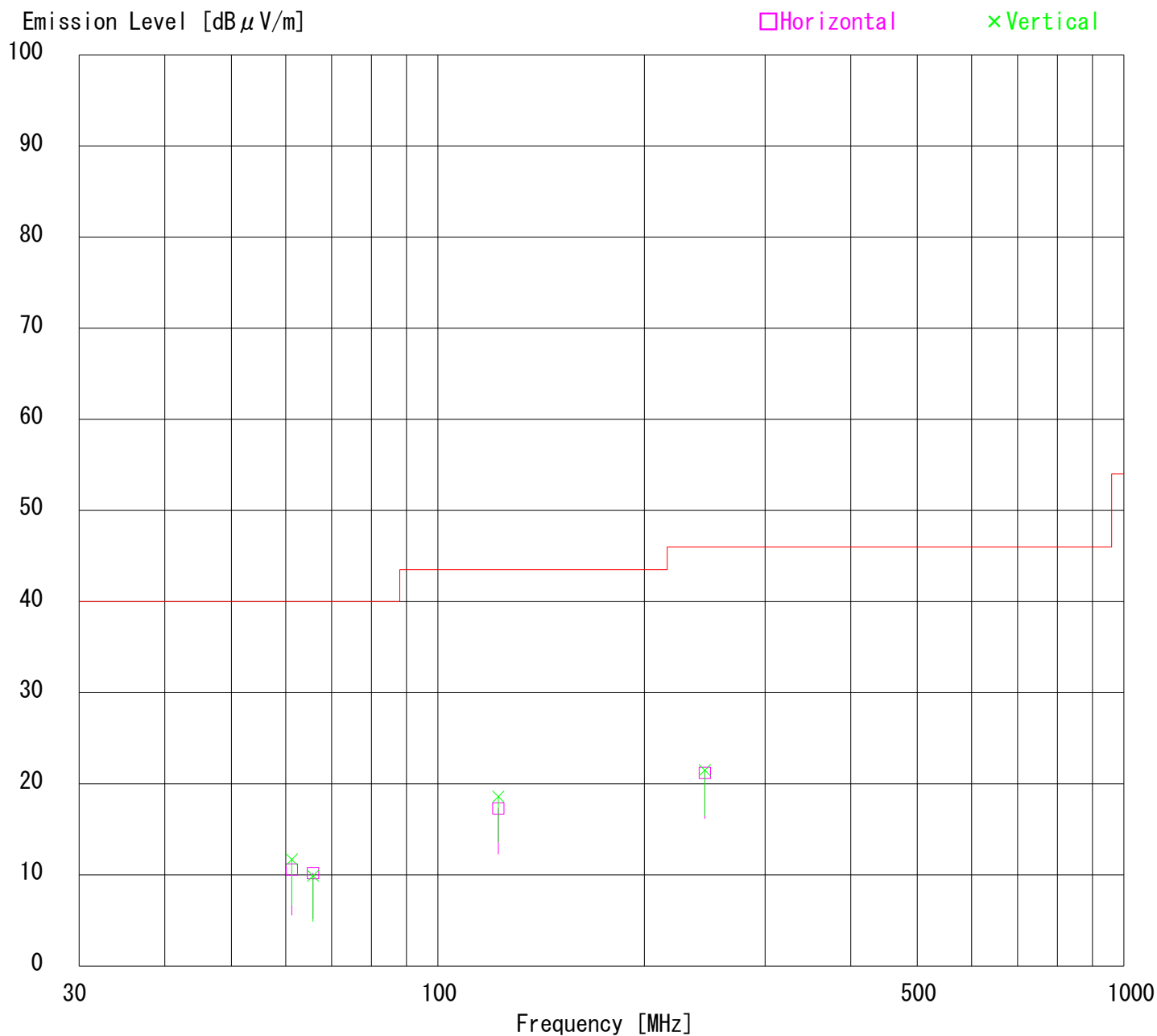
UL Apex Co., Ltd.

YOKOWA No.3 OPEN TEST SITE

Report No. : 25HE0265-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V393SU1
Serial No. : -
Power : AC120/60Hz
Mode : AV Input2+Rec(5Vp-p)
Remarks : Test Channel #3
Date : 4/8/2004
Test Distance : 3 m
Temperature : 21 °C
Humidity : 41 %
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama



DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 25HE0265-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V393SU1
Serial No. : -
Power : AC120/60Hz
Mode : AV Input2+Rec (5Vp-p)
Remarks : Test Channel #4
Date : 4/8/2005
Test Distance : 3 m
Temperature : 23 °C
Humidity : 58 %
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.	67.25	BB	23.4	24.5	7.0	28.1	1.7	5.9	9.9	11.0	40.0	30.1	29.0
2.	71.75	BB	25.0	24.1	6.5	28.1	1.8	5.9	11.1	10.2	40.0	28.9	29.8
3.	134.50	BB	23.3	23.3	14.4	27.9	2.4	5.9	18.1	18.1	43.5	25.4	25.4
4.	201.75	BB	22.5	23.0	17.1	27.8	3.1	5.9	20.8	21.3	43.5	22.7	22.2

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

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

DATA OF RADIATION TEST

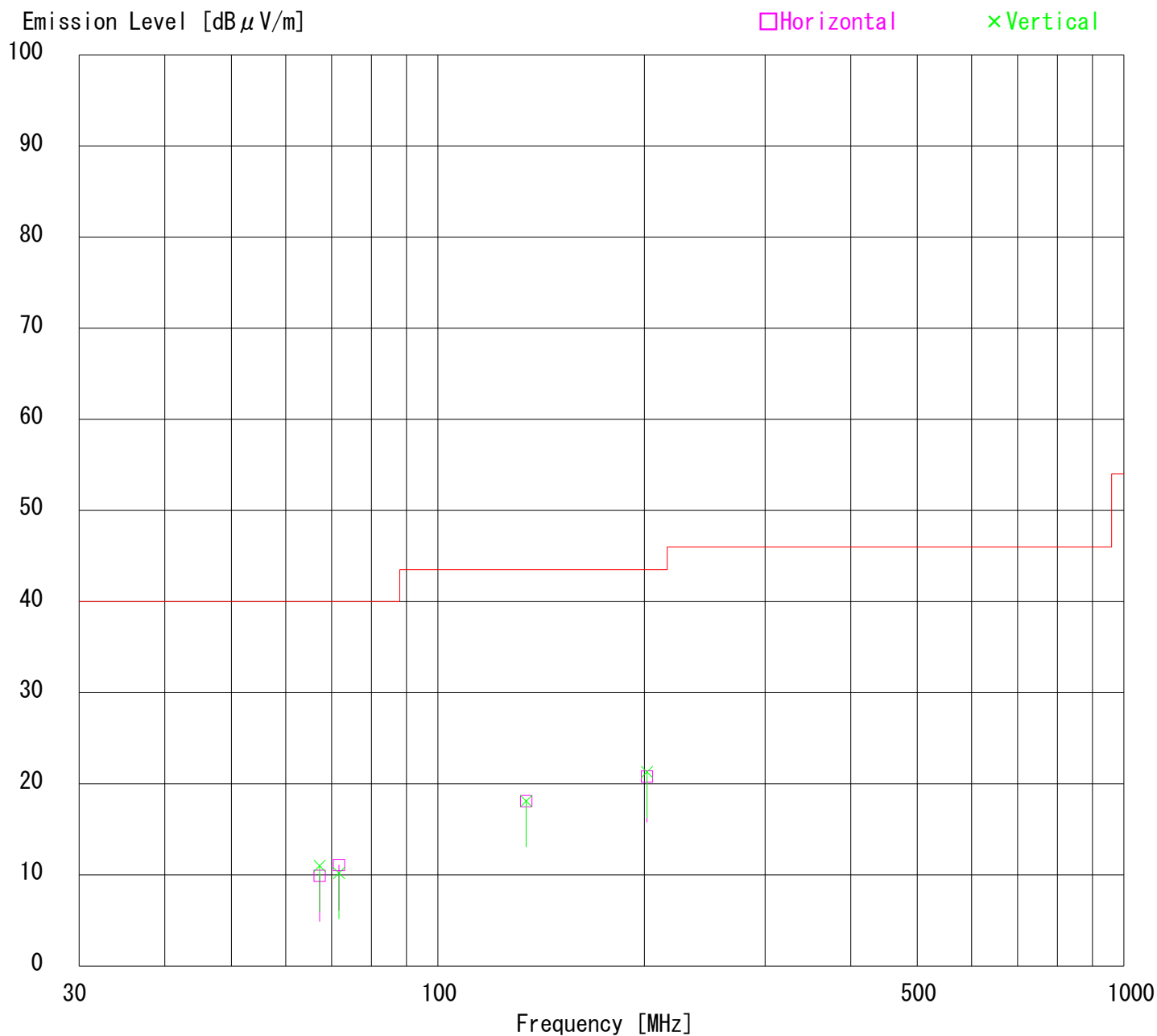
UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 25HE0265-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V393SU1
Serial No. : -
Power : AC120/60Hz
Mode : AV Input2+Rec(5Vp-p)
Remarks : Test Channel #4
Date : 4/8/2005
Test Distance : 3 m
Temperature : 23 °C
Humidity : 58 %
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama



DATA OF ANTENNA TERMINAL TEST

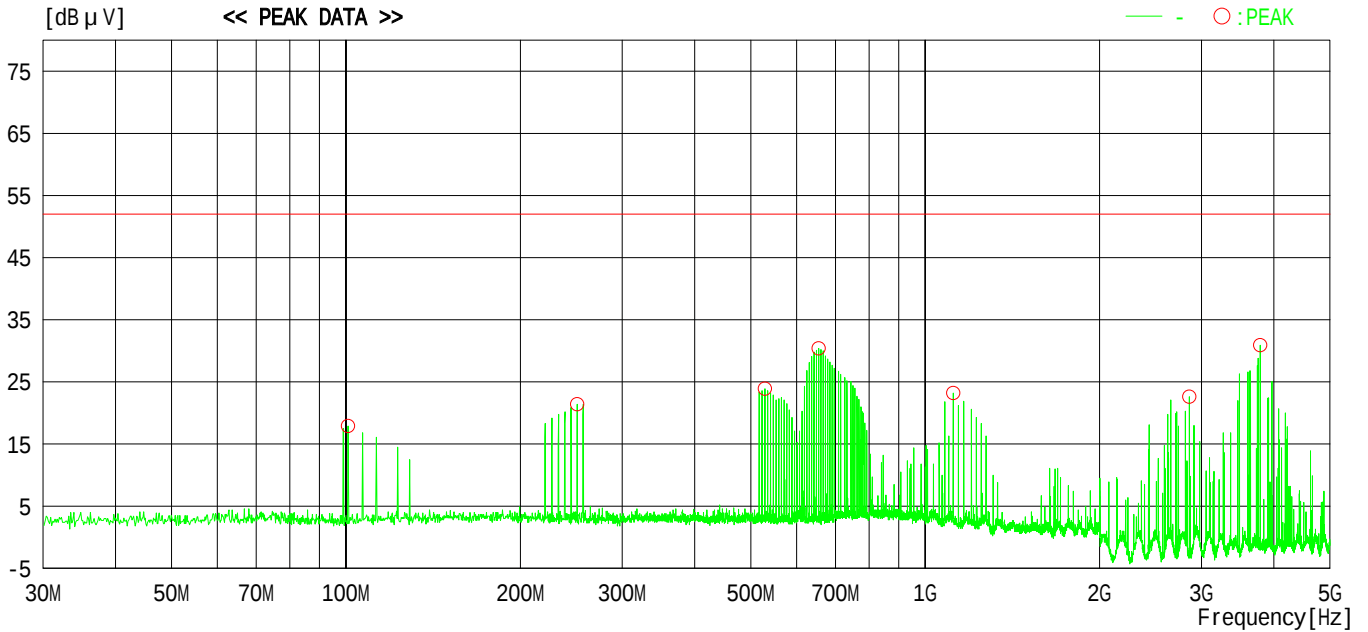
UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : SD-V393SU1
OPERATION MODE : TV Tuning Mode

REPORT NO : 25HE0265-YW-1
DATE : March 30 ,2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

TEMP./HUMID. : 21 /41%

LIMIT : FCC 15B ANTENNA TERMINAL



NO	FREQ [MHz]	READING Peak [dB μ V]	C.F [dB]	RESULT Peak [dB μ V]	LIMIT Peak [dB μ V]	MARGIN [dB]	PHASE
1	100.85710	37.2	-19.3	17.9	52.0	34.1	-
2	250.85980	40.5	-19.1	21.4	52.0	30.6	-
3	528.85630	43.5	-19.6	23.9	52.0	28.1	-
4	654.85240	50.2	-19.8	30.4	52.0	21.6	-
5	1117.85100	52.0	-28.8	23.2	52.0	28.8	-
6	2858.51300	53.8	-31.2	22.6	52.0	29.4	-
7	3788.51400	62.0	-31.1	30.9	52.0	21.1	-

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

DATA OF ANTENNA TERMINAL TEST

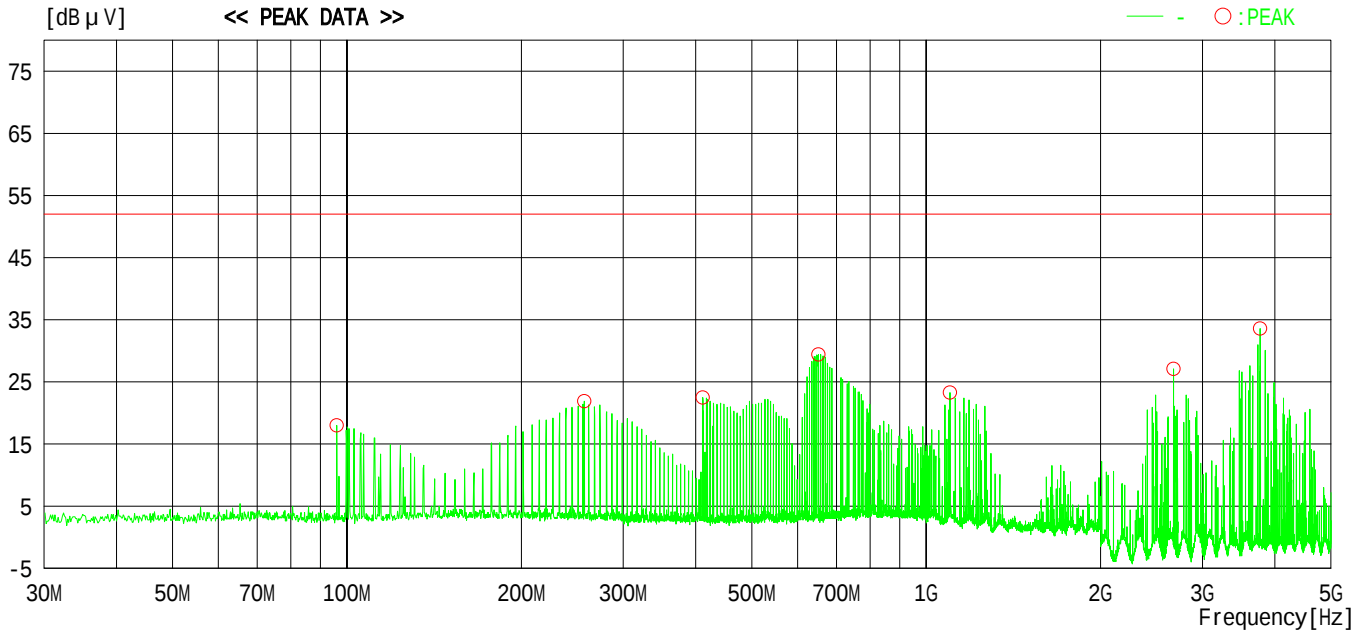
UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : SD-V393SU1
OPERATION MODE : CATV Tuning Mode

REPORT NO : 25HE0265-YW-1
DATE : March 30 ,2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

TEMP./HUMID. : 21 /41%

LIMIT : FCC 15B ANTENNA TERMINAL



NO	FREQ [MHz]	READING Peak [dB μ V]	C.F [dB]	RESULT Peak [dB μ V]	LIMIT Peak [dB μ V]	— [dB μ V]	MARGIN [dB]	PHASE
1	96.06389	37.2	-19.2	18.0	52.0	----	34.0	----
2	256.85990	41.0	-19.1	21.9	52.0	----	30.1	----
3	411.42520	42.0	-19.5	22.5	52.0	----	29.5	----
4	651.70970	49.2	-19.8	29.4	52.0	----	22.6	----
5	1099.28100	52.0	-28.7	23.3	52.0	----	28.7	----
6	2672.81200	58.5	-31.4	27.1	52.0	----	24.9	----
7	3772.80100	64.8	-31.2	33.6	52.0	----	18.4	----

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

RF Output Level

UL Apex Co.,Ltd.
Yokowa EMC Laboratory

Company : Orion Electric Co., Ltd.
Equipment : DVD/VCR
Model Number : SD-V393SU1
Power : 120V/60Hz
Description : TV Reception + REC
Remarks : -

Report Number : 25HE0265-YW-1
Regulation : FCC15 Subpart B
Date : March 30, 2005
Temp / Humid : 21deg.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	83.5	19.1	64.4	69.5	5.1
4	67.25	83.4	18.9	64.5	69.5	5.0
Audio Signal						
3	56.75	68.7	18.9	49.8	56.5	6.7
	65.75	67.2	19.0	48.2	56.5	8.3
4	62.75	68.5	19.0	49.5	56.5	7.0
	71.75	67.4	18.9	48.5	56.5	8.0

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	83.5	19.1	64.4	69.5	5.1
4	67.25	83.4	18.9	64.5	69.5	5.0
Audio Signal						
3	56.75	68.5	18.9	49.6	56.5	6.9
	65.75	67.7	19.0	48.7	56.5	7.8
4	62.75	68.5	19.0	49.5	56.5	7.0
	71.75	67.5	18.9	48.6	56.5	7.9

RF Output Level

UL Apex Co.,Ltd.
Yokowa EMC Laboratory

Company : Orion Electric Co., Ltd.
Equipment : DVD/VCR
Model Number : SD-V393SU1
Power : 120V/60Hz
Description : AV Input 1 + Rec
Remarks : -

Report Number : 25HE0265-YW-1
Regulation : FCC15 Subpart B
Date : March 30,2005
Temp / Humid : 21deg.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	83.4	19.1	64.3	69.5	5.2
4	67.25	83.5	18.9	64.6	69.5	4.9
Audio Signal						
3	56.75	68.4	18.9	49.5	56.5	7.0
	65.75	67.1	19.0	48.1	56.5	8.4
4	62.75	68.1	19.0	49.1	56.5	7.4
	71.75	67.2	18.9	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	83.5	19.1	64.4	69.5	5.1
4	67.25	83.5	18.9	64.6	69.5	4.9
Audio Signal						
3	56.75	68.4	18.9	49.5	56.5	7.0
	65.75	67.3	19.0	48.3	56.5	8.2
4	62.75	68.4	19.0	49.4	56.5	7.1
	71.75	67.2	18.9	48.3	56.5	8.2

RF Output Level

UL Apex Co.,Ltd.
Yokowa EMC Laboratory

Company : Orion Electric Co., Ltd.
Equipment : DVD/VCR
Model Number : SD-V393SU1
Power : 120V/60Hz
Description : AV Input 2 + Rec
Remarks : -

Report Number : 25HE0265-YW-1
Regulation : FCC15 Subpart B
Date : March 30, 2005
Temp / Humid : 21deg.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	83.4	19.1	64.3	69.5	5.2
4	67.25	83.4	18.9	64.5	69.5	5.0
Audio Signal						
3	56.75	68.5	18.9	49.6	56.5	6.9
	65.75	67.2	19.0	48.2	56.5	8.3
4	62.75	68.3	19.0	49.3	56.5	7.2
	71.75	67.1	18.9	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	83.5	19.1	64.4	69.5	5.1
4	67.25	83.4	18.9	64.5	69.5	5.0
Audio Signal						
3	56.75	68.9	18.9	50.0	56.5	6.5
	65.75	67.2	19.0	48.2	56.5	8.3
4	62.75	68.8	19.0	49.8	56.5	6.7
	71.75	67.3	18.9	48.4	56.5	8.1

RF Output Level

UL Apex Co.,Ltd.
Yokowa EMC Laboratory

Company : Orion Electric Co., Ltd.
Equipment : DVD/VCR
Model Number : SD-V393SU1
Power : 120V/60Hz
Description : VCR Playback
Remarks : -

Report Number : 25HE0265-YW-1
Regulation : FCC15 Subpart B
Date : March 30, 2005
Temp / Humid : 21deg.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	83.5	19.1	64.4	69.5	5.1
4	67.25	83.5	18.9	64.6	69.5	4.9
Audio Signal						
3	56.75	68.7	18.9	49.8	56.5	6.7
	65.75	67.3	19.0	48.3	56.5	8.2
4	62.75	68.6	19.0	49.6	56.5	6.9
	71.75	67.4	18.9	48.5	56.5	8.0

RF Output Level

UL Apex Co.,Ltd.
Yokowa EMC Laboratory

Company : Orion Electric Co., Ltd.
Equipment : DVD/VCR
Model Number : SD-V393SU1
Power : 120V/60Hz
Description : DVD play
Remarks : -

Report Number : 25HE0265-YW-1
Regulation : FCC15 Subpart B
Date : March 30,2005
Temp / Humid : 21deg.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	83.7	19.1	64.6	69.5	4.9
4	67.25	83.6	18.9	64.7	69.5	4.8
Audio Signal						
3	56.75	68.5	18.9	49.6	56.5	6.9
	65.75	67.3	19.0	48.3	56.5	8.2
4	62.75	68.5	19.0	49.5	56.5	7.0
	71.75	67.2	18.9	48.3	56.5	8.2

DATA OF RF SPURIOUS TEST

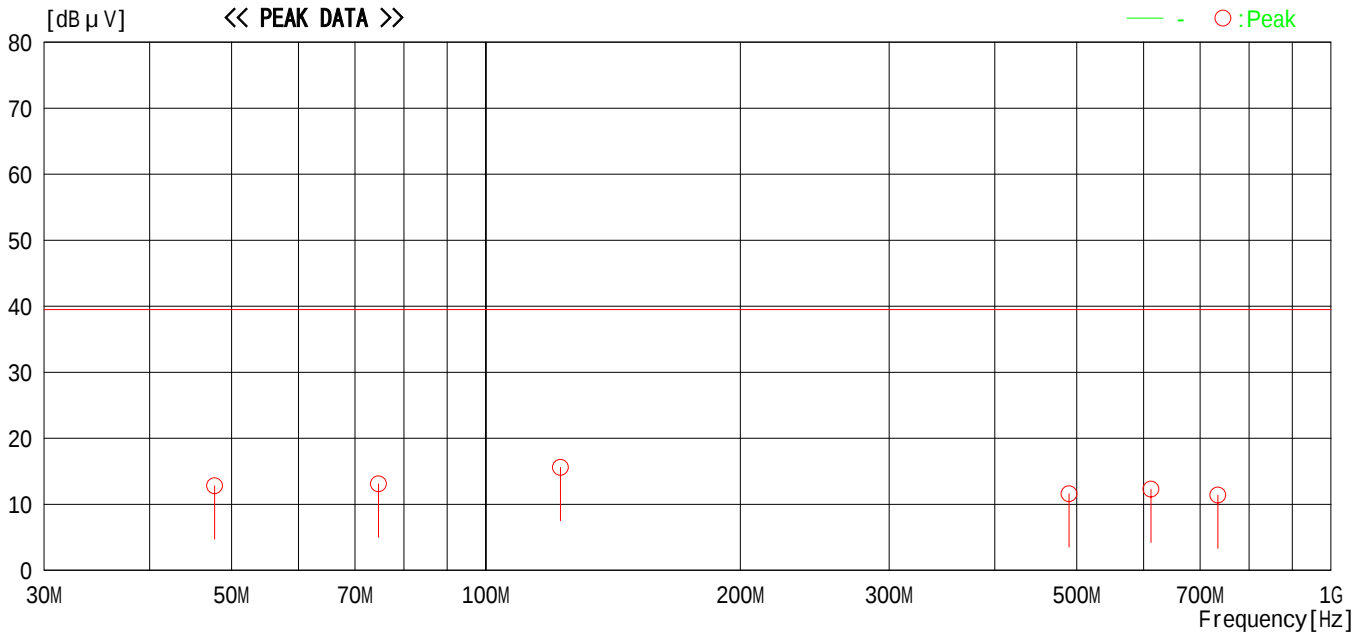
UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : SD-V393SU1
TEMP./HUMID. : 26 /68%

REPORT NO : 25HE0265-YW-1
DATE : March 30, 2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

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

LIMIT : FCC 15B RF OUT SPURIOUS



NO	FREQ [MHz]	READING		C.F [dB]	RESULT		LIMIT		MARGIN		PHASE
		Peak [dB μV]	- [dB μV]		Peak [dB μV]	- [dB μV]	Peak [dB μV]	- [dB μV]	[dB]	[dB]	
1	47.7400	32.1	----	-19.3	12.8	----	39.5	----	26.7	----	-
2	74.6300	32.1	----	-19.0	13.1	----	39.5	----	26.4	----	-
3	122.5000	34.6	----	-19.0	15.6	----	39.5	----	23.9	----	-
4	489.7500	31.2	----	-19.6	11.6	----	39.5	----	27.9	----	-
5	612.3200	32.0	----	-19.7	12.3	----	39.5	----	27.2	----	-
6	734.7400	31.1	----	-19.7	11.4	----	39.5	----	28.1	----	-

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

DATA OF RF SPURIOUS TEST

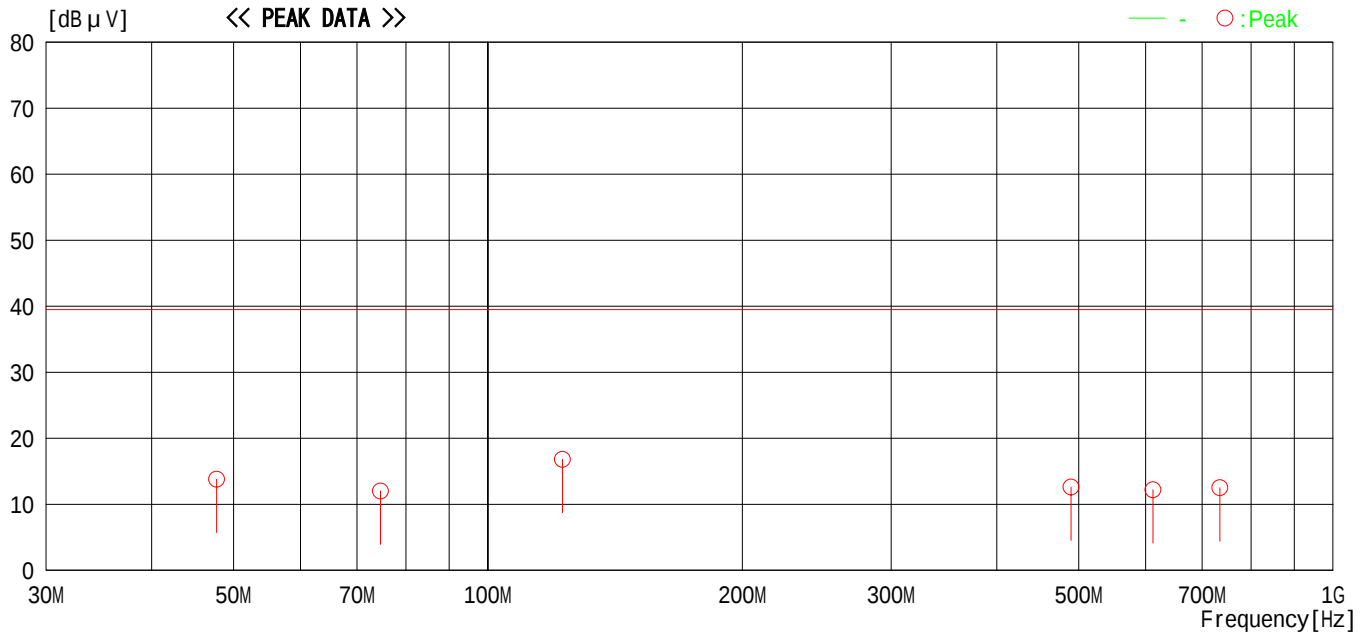
UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : SD-V393SU1
TEMP./HUMID. : 26 /68%

REPORT NO : 25HE0265-YW-1
DATE : March 30, 2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

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

LIMIT : FCC 15B RF OUT SPURIOUS



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

DATA OF RF SPURIOUS TEST

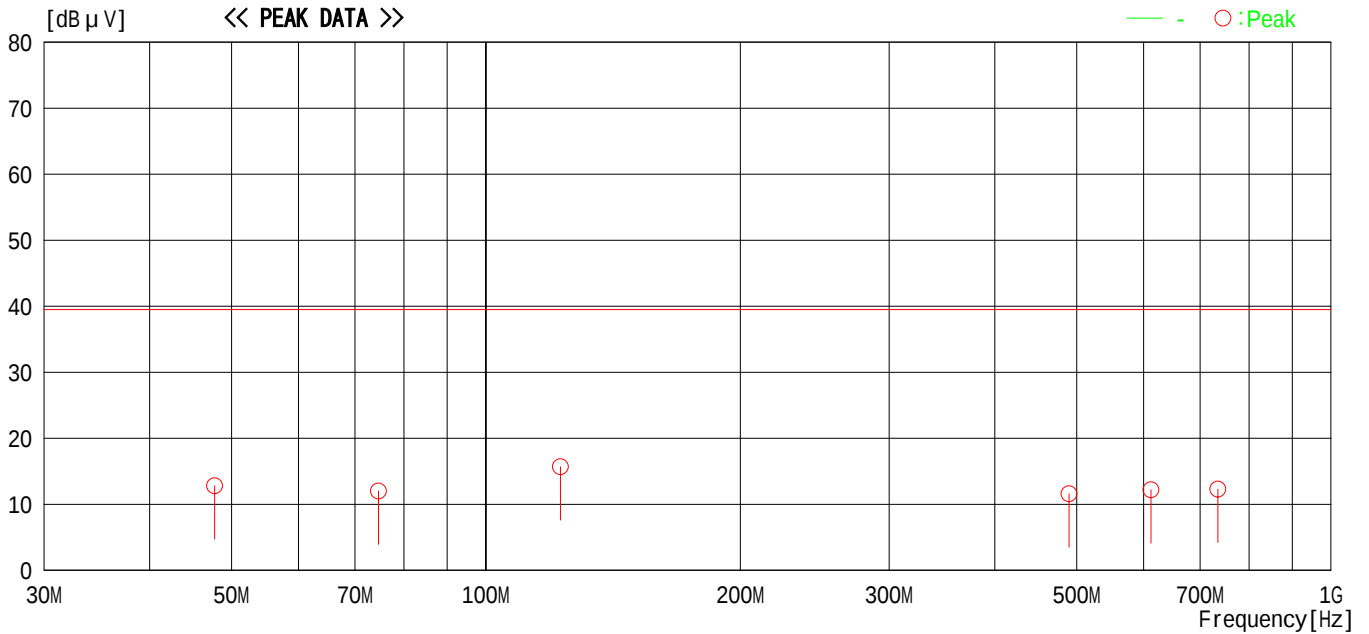
UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : SD-V393SU1
TEMP./HUMID. : 26 /68%

REPORT NO : 25HE0265-YW-1
DATE : March 30, 2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

OPERATION MODE : AV Input 1 + Rec (1Vp-p : 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]	[dB]	[dB]	
1	47.7400	32.1	----	-19.3	12.8	----	39.5	----	26.7	----	-
2	74.6300	31.0	----	-19.0	12.0	----	39.5	----	27.5	----	-
3	122.5000	34.7	----	-19.0	15.7	----	39.5	----	23.8	----	-
4	489.7500	31.2	----	-19.6	11.6	----	39.5	----	27.9	----	-
5	612.3200	31.9	----	-19.7	12.2	----	39.5	----	27.3	----	-
6	734.7400	32.0	----	-19.7	12.3	----	39.5	----	27.2	----	-

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

DATA OF RF SPURIOUS TEST

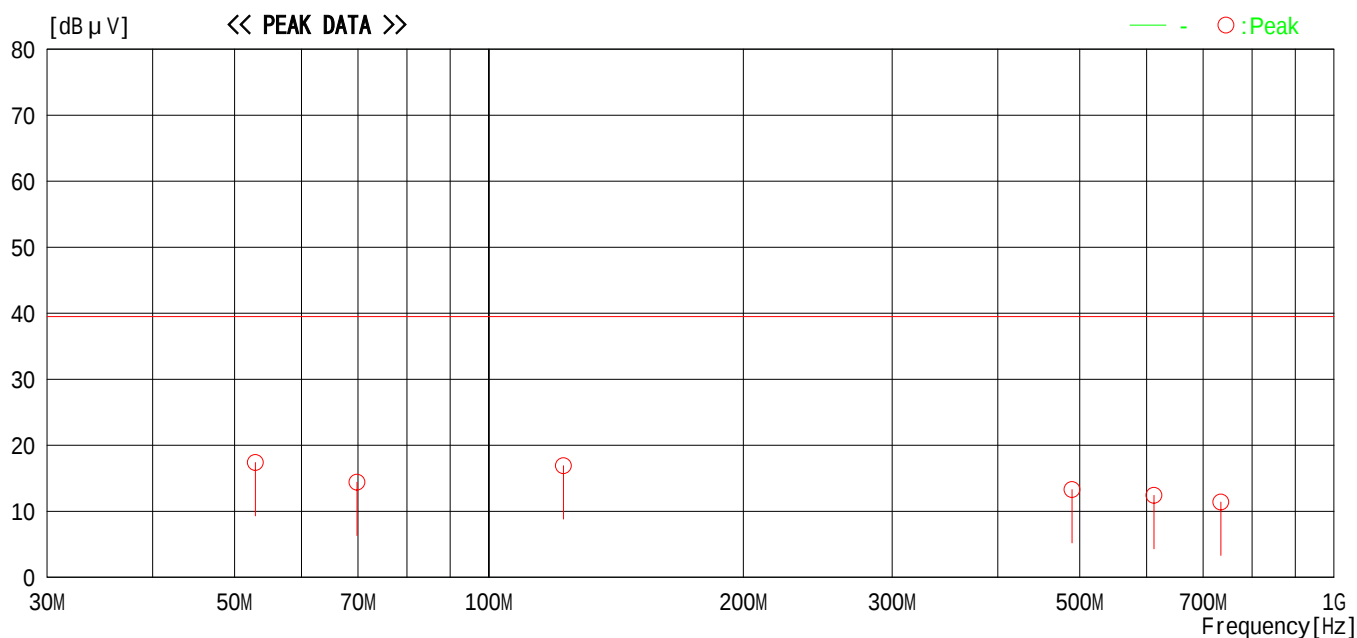
UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : SD-V393SU1
TEMP./HUMID. : 26 /68%

REPORT NO : 25HE0265-YW-1
DATE : March 30, 2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

OPERATION MODE : AV Input 1 + Rec (5Vp-p : 3ch)

LIMIT : FCC 15B RF OUT SPURIOUS



NO	FREQ	READING		C.F	RESULT		LIMIT		MARGIN		PHASE
	[MHz]	Peak	-		Peak	-	Peak	-	[dB]	[dB]	
		[dB μ V]	[dB μ V]	[dB]	[dB μ V]	[dB μ V]	[dB μ V]	[dB μ V]			
1	52.9200	36.7	----	-19.3	17.4	----	39.5	----	22.1	----	-
2	69.8000	33.3	----	-18.9	14.4	----	39.5	----	25.1	----	-
3	122.5000	35.9	----	-19.0	16.9	----	39.5	----	22.6	----	-
4	489.7500	32.9	----	-19.6	13.3	----	39.5	----	26.2	----	-
5	612.3200	32.1	----	-19.7	12.4	----	39.5	----	27.1	----	-
6	734.7400	31.1	----	-19.7	11.4	----	39.5	----	28.1	----	-

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

DATA OF RF SPURIOUS TEST

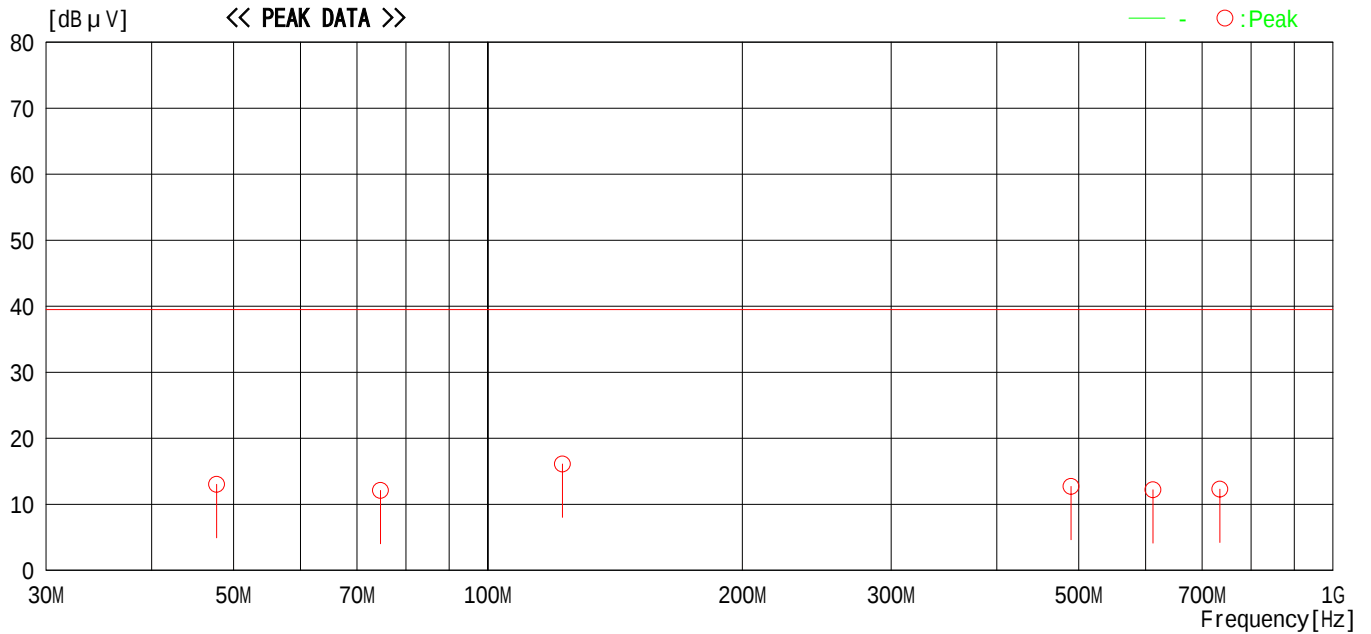
UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : SD-V393SU1
TEMP./HUMID. : 26 /68%

REPORT NO : 25HE0265-YW-1
DATE : March 30, 2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

OPERATION MODE : AV Input 2 + Rec (1Vp-p : 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]	[dB]	[dB]	
1	47.7400	32.3	----	-19.3	13.0	----	39.5	----	26.5	----	-
2	74.6300	31.1	----	-19.0	12.1	----	39.5	----	27.4	----	-
3	122.5000	35.1	----	-19.0	16.1	----	39.5	----	23.4	----	-
4	489.7500	32.3	----	-19.6	12.7	----	39.5	----	26.8	----	-
5	612.3200	31.9	----	-19.7	12.2	----	39.5	----	27.3	----	-
6	734.7400	32.0	----	-19.7	12.3	----	39.5	----	27.2	----	-

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

DATA OF RF SPURIOUS TEST

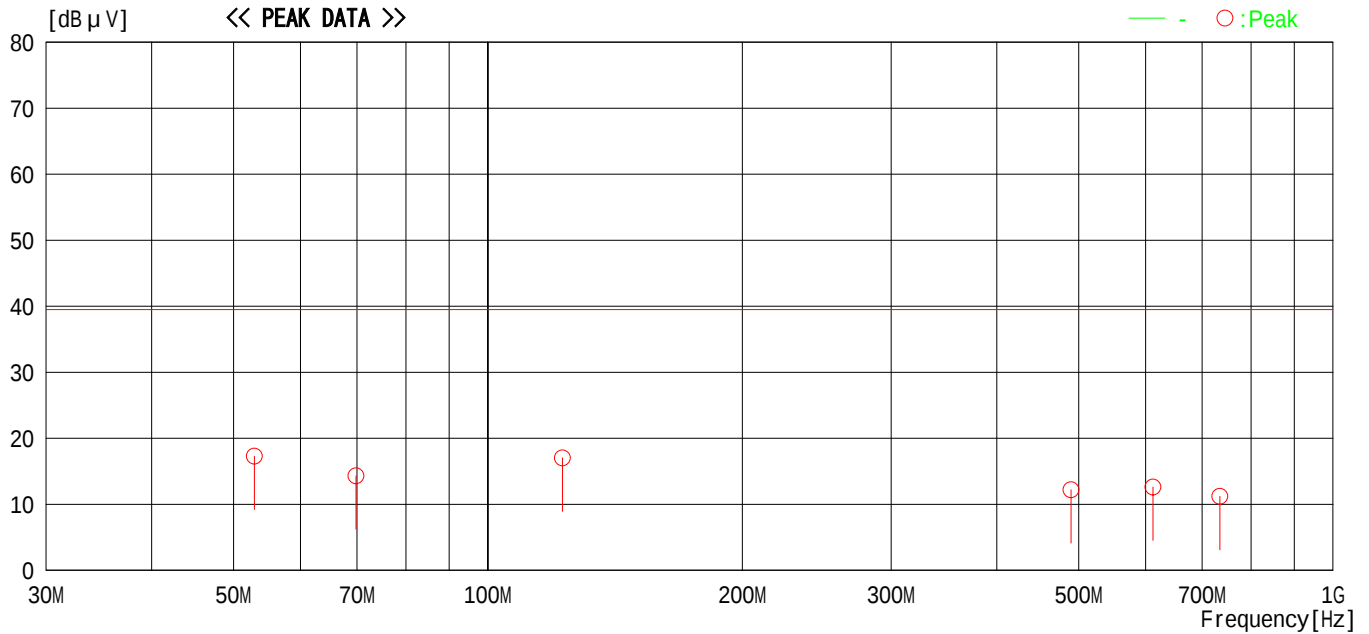
UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : SD-V393SU1
TEMP./HUMID. : 26 /68%

REPORT NO : 25HE0265-YW-1
DATE : March 30, 2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

OPERATION MODE : AV Input 2 + Rec (5Vp-p : 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]	[dB]	[dB]	
1	52.9200	36.6	----	-19.3	17.3	----	39.5	----	22.2	----	-
2	69.8000	33.2	----	-18.9	14.3	----	39.5	----	25.2	----	-
3	122.5000	36.0	----	-19.0	17.0	----	39.5	----	22.5	----	-
4	489.7500	31.8	----	-19.6	12.2	----	39.5	----	27.3	----	-
5	612.3200	32.3	----	-19.7	12.6	----	39.5	----	26.9	----	-
6	734.7400	30.9	----	-19.7	11.2	----	39.5	----	28.3	----	-

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

DATA OF RF SPURIOUS TEST

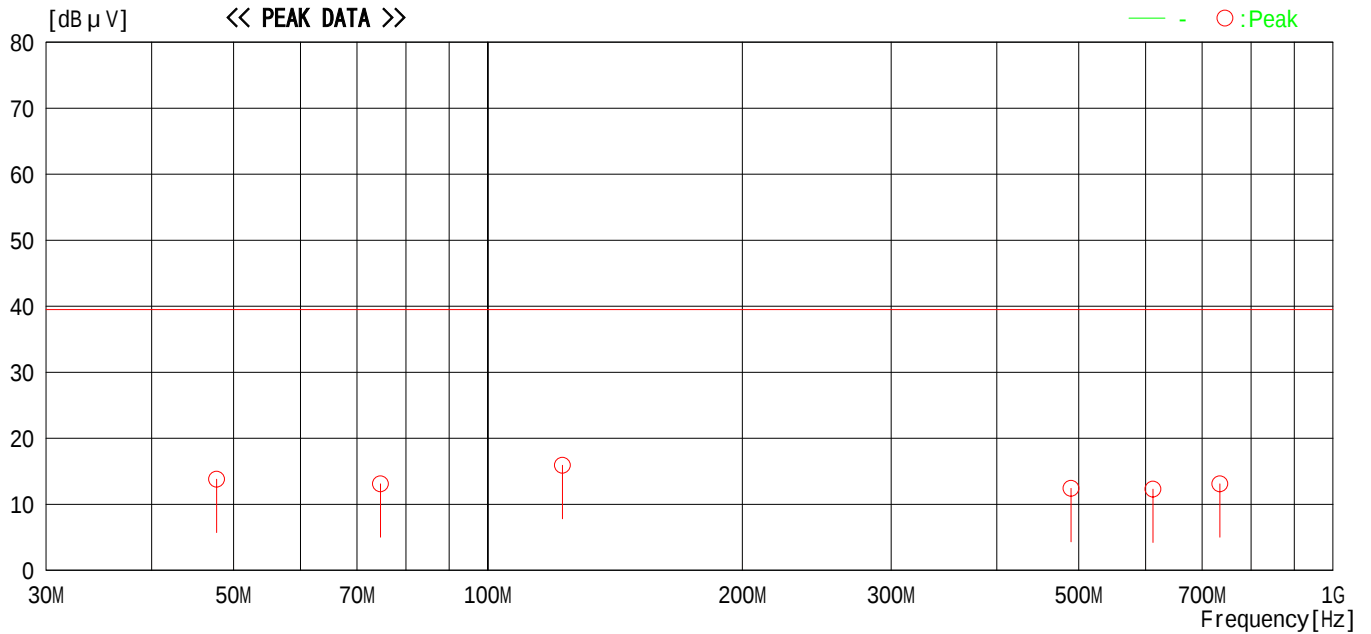
UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : SD-V393SU1
TEMP./HUMID. : 26 /68%

REPORT NO : 25HE0265-YW-1
DATE : March 30, 2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

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

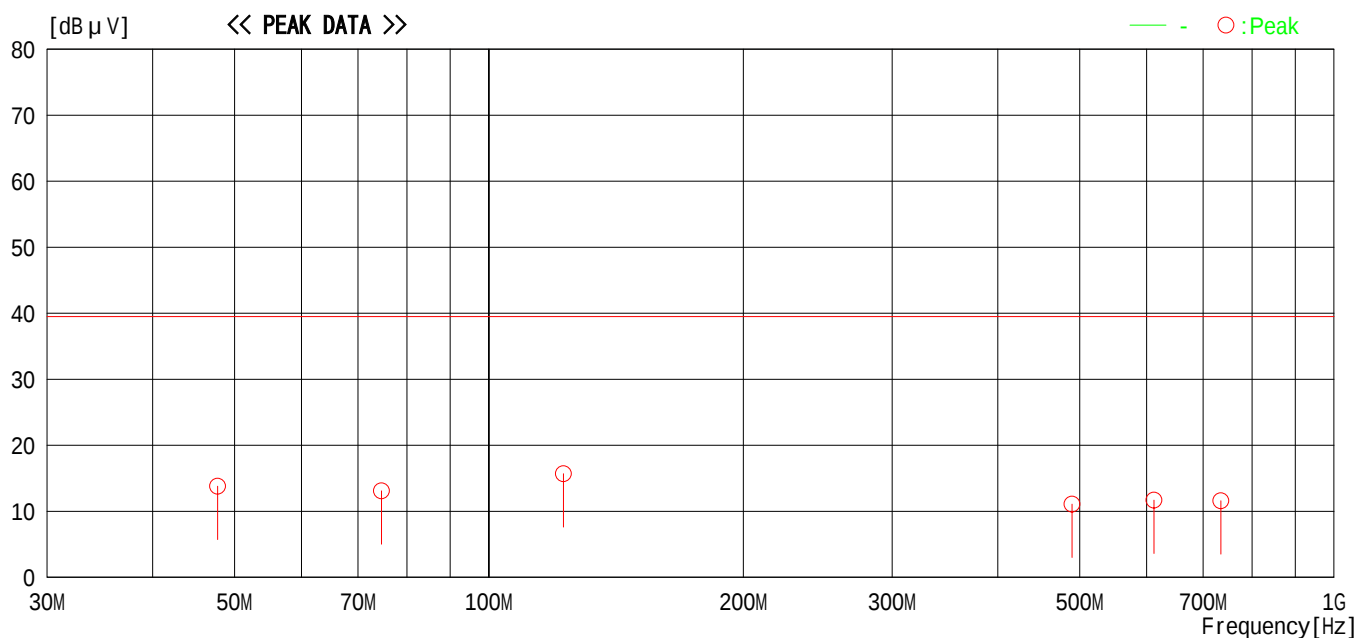
UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : SD-V393SU1
TEMP./HUMID. : 26 /68%

REPORT NO : 25HE0265-YW-1
DATE : March 30, 2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

OPERATION MODE : DVD Play (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]	[dB]	[dB]	
1	47.7400	33.1	----	-19.3	13.8	----	39.5	----	25.7	----	-
2	74.6300	32.1	----	-19.0	13.1	----	39.5	----	26.4	----	-
3	122.5000	34.7	----	-19.0	15.7	----	39.5	----	23.8	----	-
4	489.7500	30.7	----	-19.6	11.1	----	39.5	----	28.4	----	-
5	612.3200	31.4	----	-19.7	11.7	----	39.5	----	27.8	----	-
6	734.7400	31.3	----	-19.7	11.6	----	39.5	----	27.9	----	-

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

DATA OF RF SPURIOUS TEST

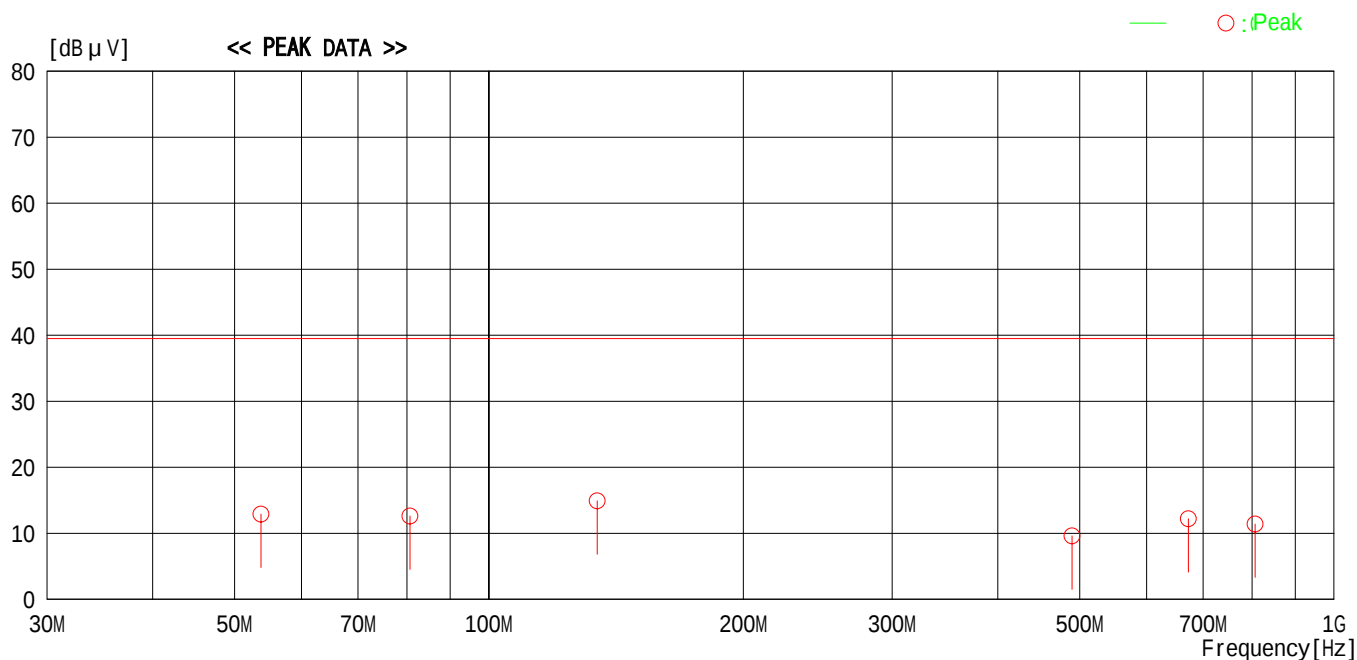
UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : SD-V393SU1
TEMP./HUMID. : 26 /68%

REPORT NO : 25HE0265-YW-1
DATE : March 30 ,2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

OPERATION MODE : TV Reception + Rec (0dBmV : 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]	[dB]	[dB]	
1	53.7300	32.1	----	-19.2	12.9	----	39.5	----	26.6	----	VA
2	80.6400	31.6	----	-19.0	12.6	----	39.5	----	26.9	----	VA
3	134.3000	33.8	----	-18.9	14.9	----	39.5	----	24.6	----	VA
4	489.7300	29.2	----	-19.6	9.6	----	39.5	----	29.9	----	VA
5	672.3700	32.0	----	-19.8	12.2	----	39.5	----	27.3	----	VA
6	806.7200	31.2	----	-19.8	11.4	----	39.5	----	28.1	----	VA

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

DATA OF RF SPURIOUS TEST

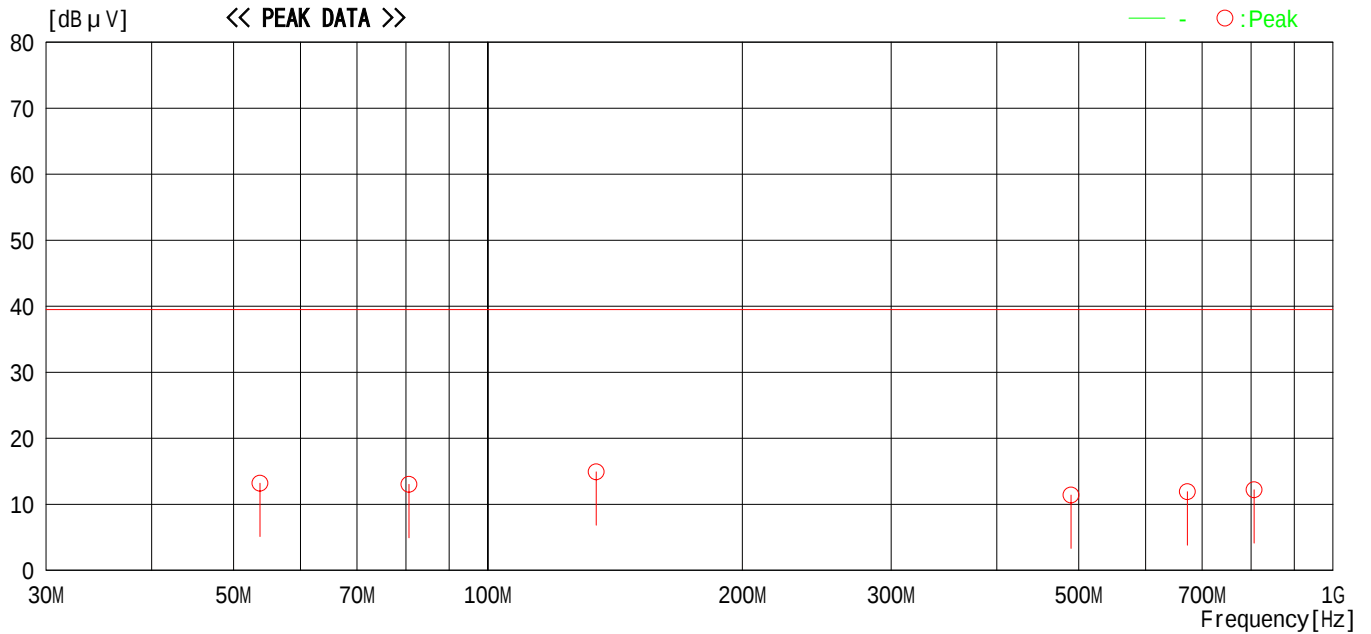
UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : SD-V393SU1
TEMP./HUMID. : 26 /68%

REPORT NO : 25HE0265-YW-1
DATE : March 30, 2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

OPERATION MODE : TV Reception + Rec (25dBmV : 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]	[dB]	[dB]	
1	53.7300	32.4	----	-19.2	13.2	----	39.5	----	26.3	----	-
2	80.6400	32.0	----	-19.0	13.0	----	39.5	----	26.5	----	-
3	134.3000	33.8	----	-18.9	14.9	----	39.5	----	24.6	----	-
4	489.7300	31.0	----	-19.6	11.4	----	39.5	----	28.1	----	-
5	672.3700	31.7	----	-19.8	11.9	----	39.5	----	27.6	----	-
6	806.7200	32.0	----	-19.8	12.2	----	39.5	----	27.3	----	-

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

DATA OF RF SPURIOUS TEST

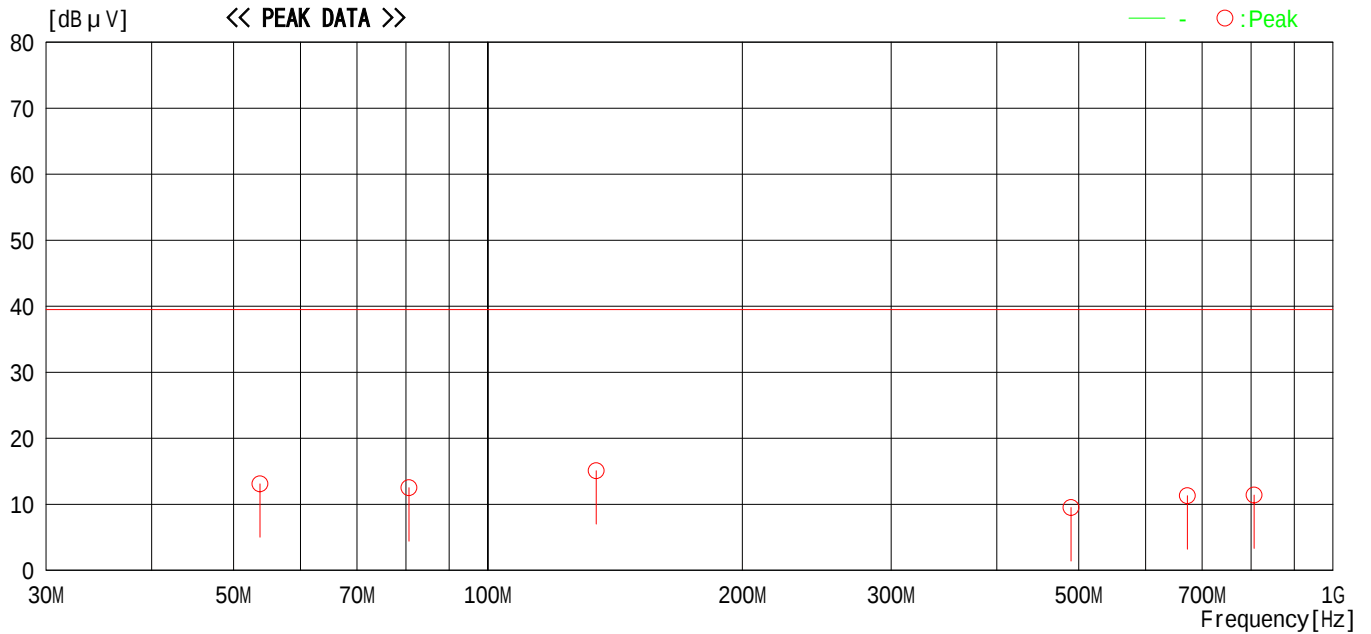
UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : SD-V393SU1
TEMP./HUMID. : 26 /68%

REPORT NO : 25HE0265-YW-1
DATE : March 30, 2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

OPERATION MODE : AV Input 1 + Rec (1Vp-p : 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]	[dB]	[dB]	
1	53.7300	32.3	----	-19.2	13.1	----	39.5	----	26.4	----	-
2	80.6400	31.5	----	-19.0	12.5	----	39.5	----	27.0	----	-
3	134.3000	34.0	----	-18.9	15.1	----	39.5	----	24.4	----	-
4	489.7300	29.1	----	-19.6	9.5	----	39.5	----	30.0	----	-
5	672.3700	31.1	----	-19.8	11.3	----	39.5	----	28.2	----	-
6	806.7200	31.2	----	-19.8	11.4	----	39.5	----	28.1	----	-

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

DATA OF RF SPURIOUS TEST

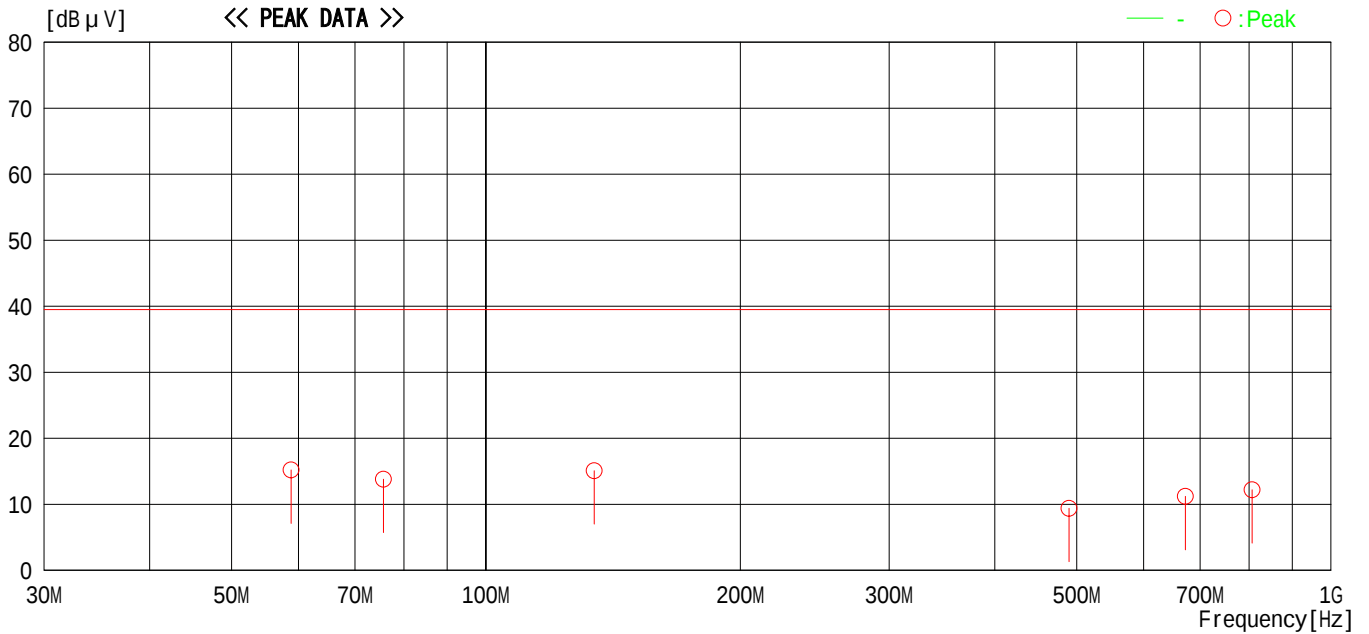
UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : SD-V393SU1
TEMP./HUMID. : 26 /68%

REPORT NO : 25HE0265-YW-1
DATE : March 30, 2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

OPERATION MODE : AV Input 1 + Rec (5Vp-p : 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]	[dB]	[dB]	
1	58.8200	34.4	----	-19.2	15.2	----	39.5	----	24.3	----	-
2	75.6300	32.7	----	-18.9	13.8	----	39.5	----	25.7	----	-
3	134.3000	34.0	----	-18.9	15.1	----	39.5	----	24.4	----	-
4	489.7300	29.0	----	-19.6	9.4	----	39.5	----	30.1	----	-
5	672.3700	31.0	----	-19.8	11.2	----	39.5	----	28.3	----	-
6	806.7200	32.0	----	-19.8	12.2	----	39.5	----	27.3	----	-

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

DATA OF RF SPURIOUS TEST

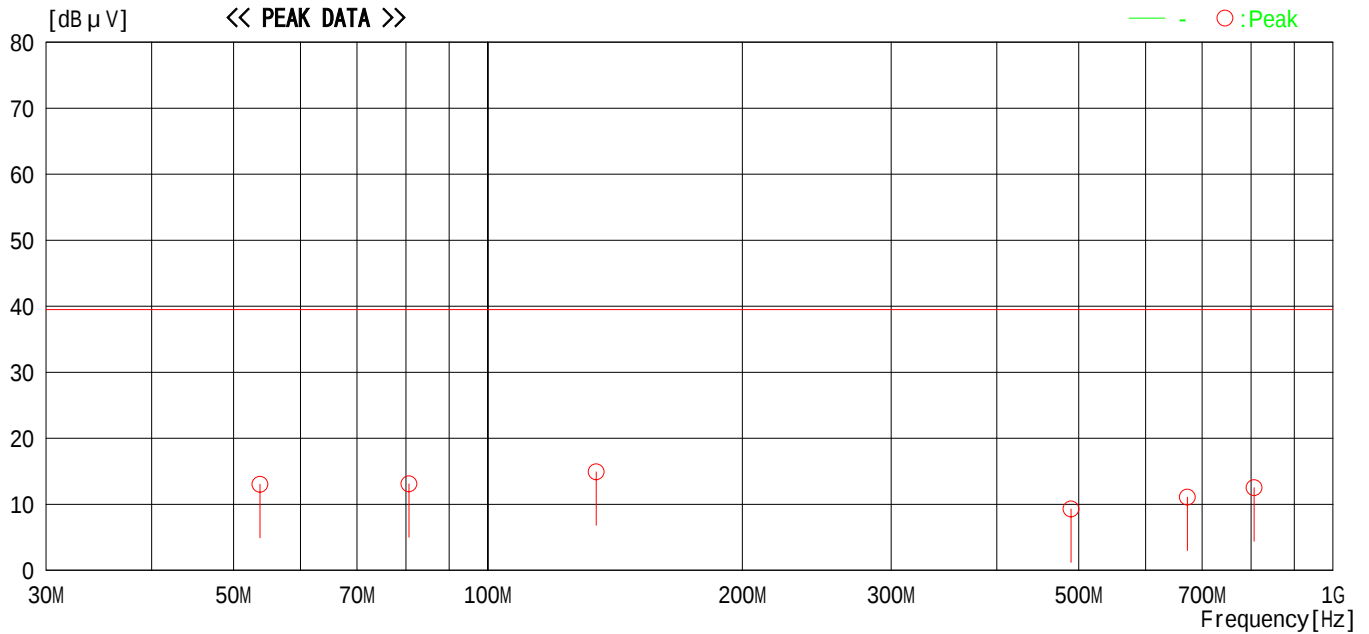
UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : SD-V393SU1
TEMP./HUMID. : 26 /68%

REPORT NO : 25HE0265-YW-1
DATE : March 30, 2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

OPERATION MODE : AV Input 2 + Rec (1Vp-p : 4ch)

LIMIT : FCC 15B RF OUT SPURIOUS



NO	FREQ	READING		C.F	RESULT		LIMIT		MARGIN		PHASE
	[MHz]	Peak	-		Peak	-	Peak	-	[dB]	[dB]	
		[dB μ V]	[dB μ V]	[dB]	[dB μ V]	[dB μ V]	[dB μ V]	[dB μ V]			
1	53.7300	32.2	----	-19.2	13.0	----	39.5	----	26.5	----	-
2	80.6400	32.1	----	-19.0	13.1	----	39.5	----	26.4	----	-
3	134.3000	33.8	----	-18.9	14.9	----	39.5	----	24.6	----	-
4	489.7300	28.9	----	-19.6	9.3	----	39.5	----	30.2	----	-
5	672.3700	30.9	----	-19.8	11.1	----	39.5	----	28.4	----	-
6	806.7200	32.3	----	-19.8	12.5	----	39.5	----	27.0	----	-

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

DATA OF RF SPURIOUS TEST

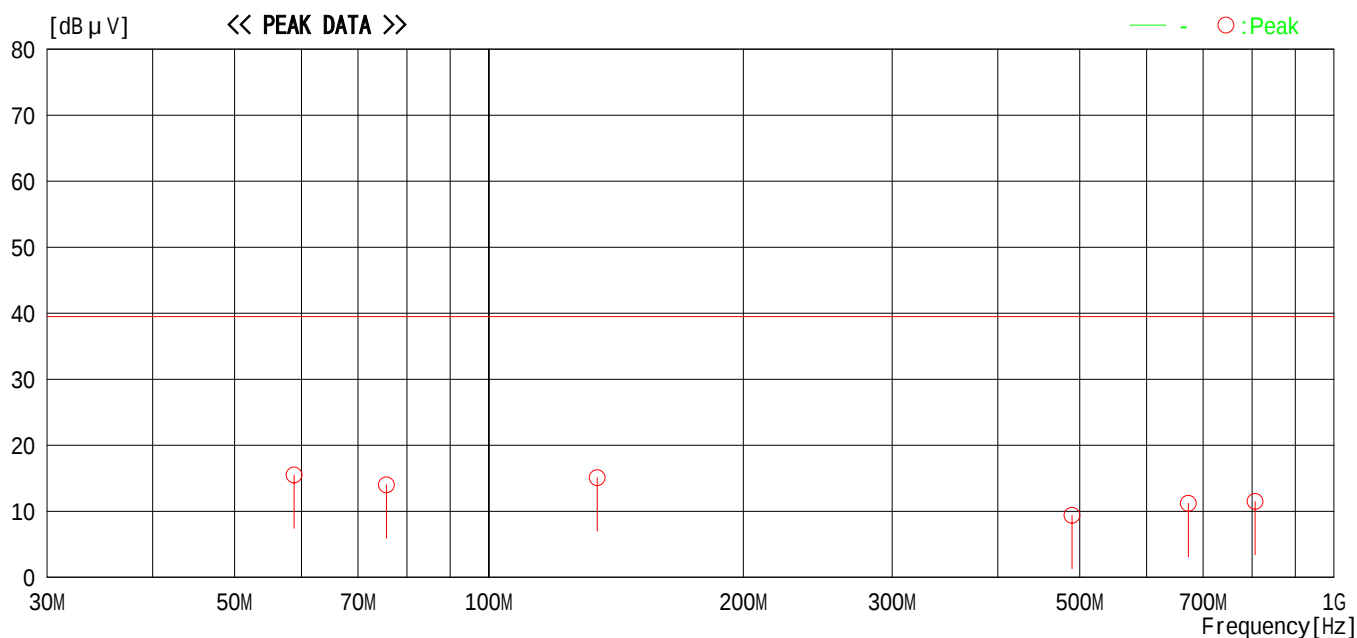
UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : SD-V393SU1
TEMP./HUMID. : 26 /68%

REPORT NO : 25HE0265-YW-1
DATE : March 30, 2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

OPERATION MODE : AV Input 2 + Rec (5Vp-p : 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]	[dB]	[dB]	
1	58.8200	34.7	----	-19.2	15.5	----	39.5	----	24.0	----	-
2	75.6300	32.9	----	-18.9	14.0	----	39.5	----	25.5	----	-
3	134.3000	34.0	----	-18.9	15.1	----	39.5	----	24.4	----	-
4	489.7300	29.0	----	-19.6	9.4	----	39.5	----	30.1	----	-
5	672.3700	31.0	----	-19.8	11.2	----	39.5	----	28.3	----	-
6	806.7200	31.3	----	-19.8	11.5	----	39.5	----	28.0	----	-

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

DATA OF RF SPURIOUS TEST

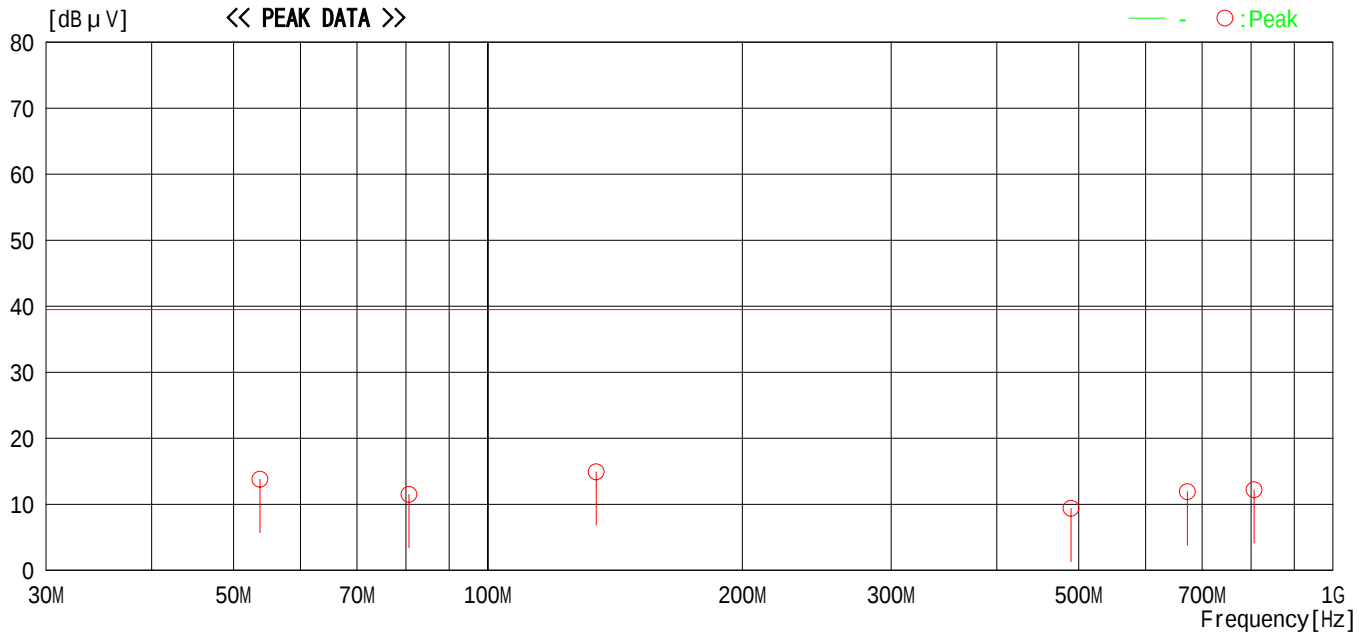
UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : SD-V393SU1
TEMP./HUMID. : 26 /68%

REPORT NO : 25HE0265-YW-1
DATE : March 30, 2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

OPERATION MODE : VCR Playback (4ch)

LIMIT : FCC 15B RF OUT SPURIOUS



NO	FREQ	READING		C.F	RESULT		LIMIT		MARGIN		PHASE
	[MHz]	Peak	-		Peak	-	Peak	-	[dB]	[dB]	
		[dB μ V]	[dB μ V]	[dB]	[dB μ V]	[dB μ V]	[dB μ V]	[dB μ V]			
1	53.7300	33.0	----	-19.2	13.8	----	39.5	----	25.7	----	-
2	80.6400	30.5	----	-19.0	11.5	----	39.5	----	28.0	----	-
3	134.3000	33.8	----	-18.9	14.9	----	39.5	----	24.6	----	-
4	489.7300	29.0	----	-19.6	9.4	----	39.5	----	30.1	----	-
5	672.3700	31.7	----	-19.8	11.9	----	39.5	----	27.6	----	-
6	806.7200	32.0	----	-19.8	12.2	----	39.5	----	27.3	----	-

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

DATA OF RF SPURIOUS TEST

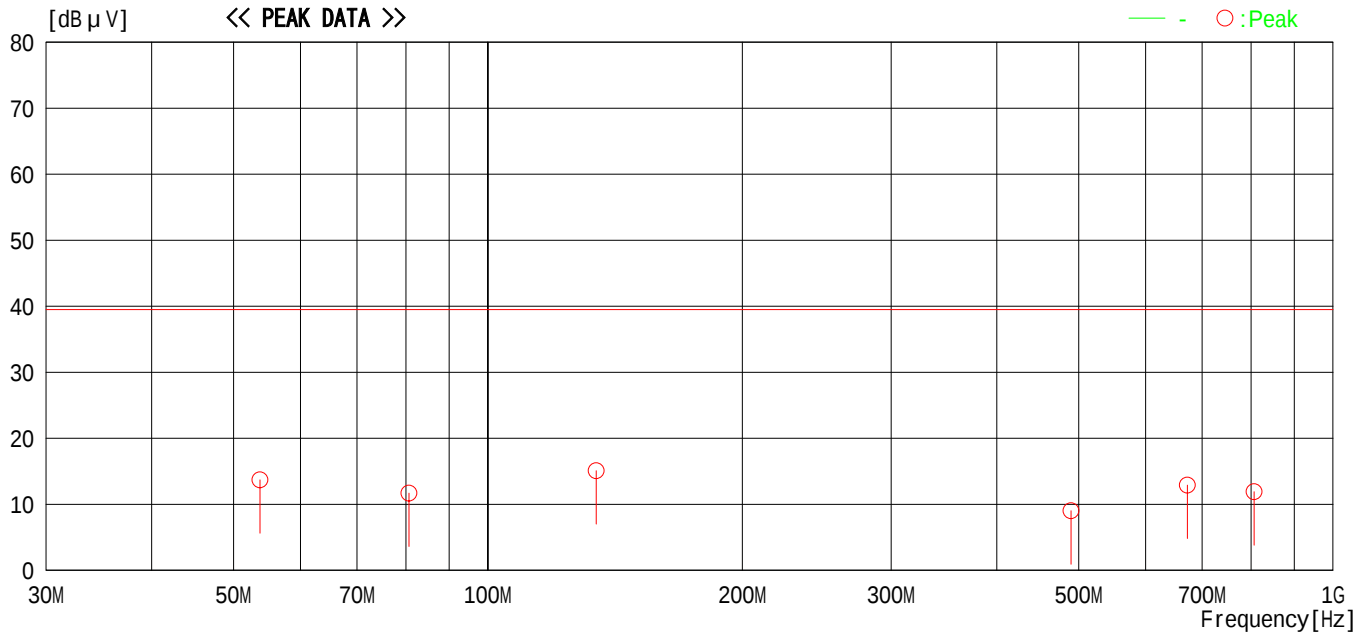
UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : SD-V393SU1
TEMP./HUMID. : 26 /68%

REPORT NO : 25HE0265-YW-1
DATE : March 30, 2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

OPERATION MODE : DVD Play (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]	[dB]	[dB]	
1	53.7300	32.9	----	-19.2	13.7	----	39.5	----	25.8	----	-
2	80.6400	30.7	----	-19.0	11.7	----	39.5	----	27.8	----	-
3	134.3000	34.0	----	-18.9	15.1	----	39.5	----	24.4	----	-
4	489.7300	28.6	----	-19.6	9.0	----	39.5	----	30.5	----	-
5	672.3700	32.7	----	-19.8	12.9	----	39.5	----	26.6	----	-
6	806.7200	31.7	----	-19.8	11.9	----	39.5	----	27.6	----	-

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

DATA OF ANTENNA TRANSFER SWITCH TEST

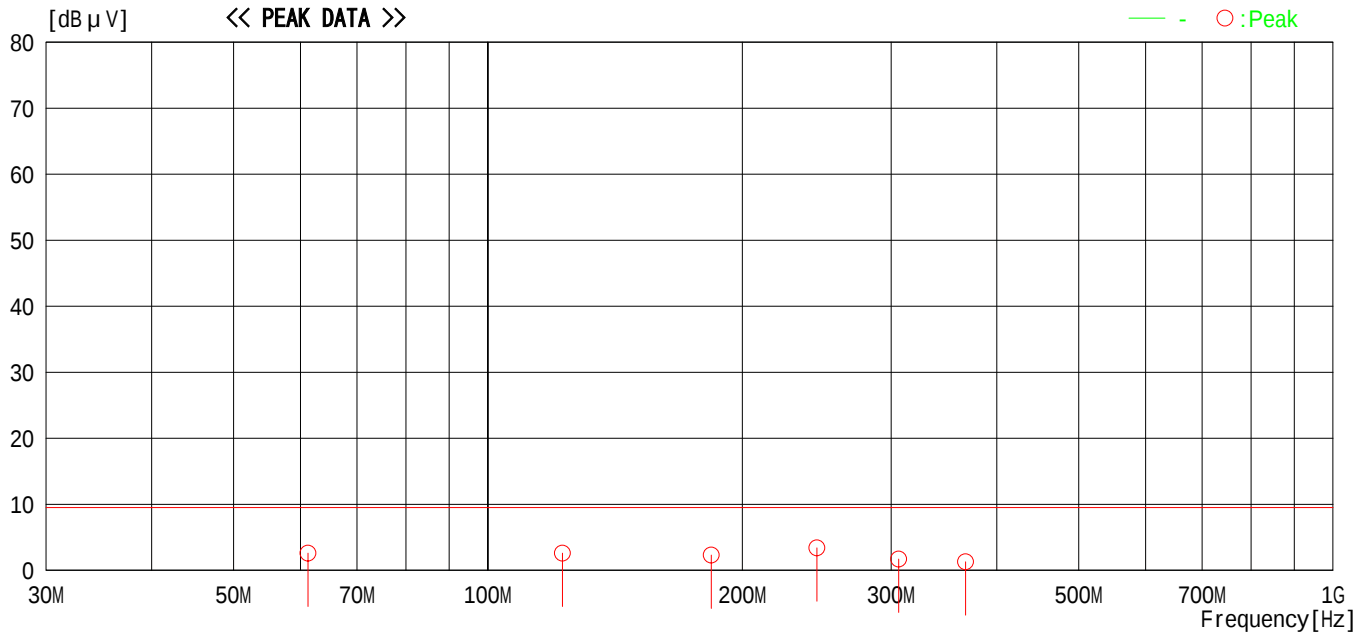
UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : SD-V393SU1
TEMP./HUMID. : 26 /68%

REPORT NO : 25HE0265-YW-1
DATE : March 30 ,2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

OPERATION MODE : Av Input1 + Rec (1V p-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]	[dB]	[dB]	
1	61.2500	21.7	----	-19.1	2.6	----	9.5	----	6.9	----	-
2	122.5000	21.6	----	-19.0	2.6	----	9.5	----	6.9	----	-
3	183.7500	21.1	----	-18.8	2.3	----	9.5	----	7.2	----	-
4	245.0000	22.5	----	-19.1	3.4	----	9.5	----	6.1	----	-
5	306.2500	21.1	----	-19.4	1.7	----	9.5	----	7.8	----	-
6	367.5000	20.7	----	-19.4	1.3	----	9.5	----	8.2	----	-

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

DATA OF ANTENNA TRANSFER SWITCH TEST

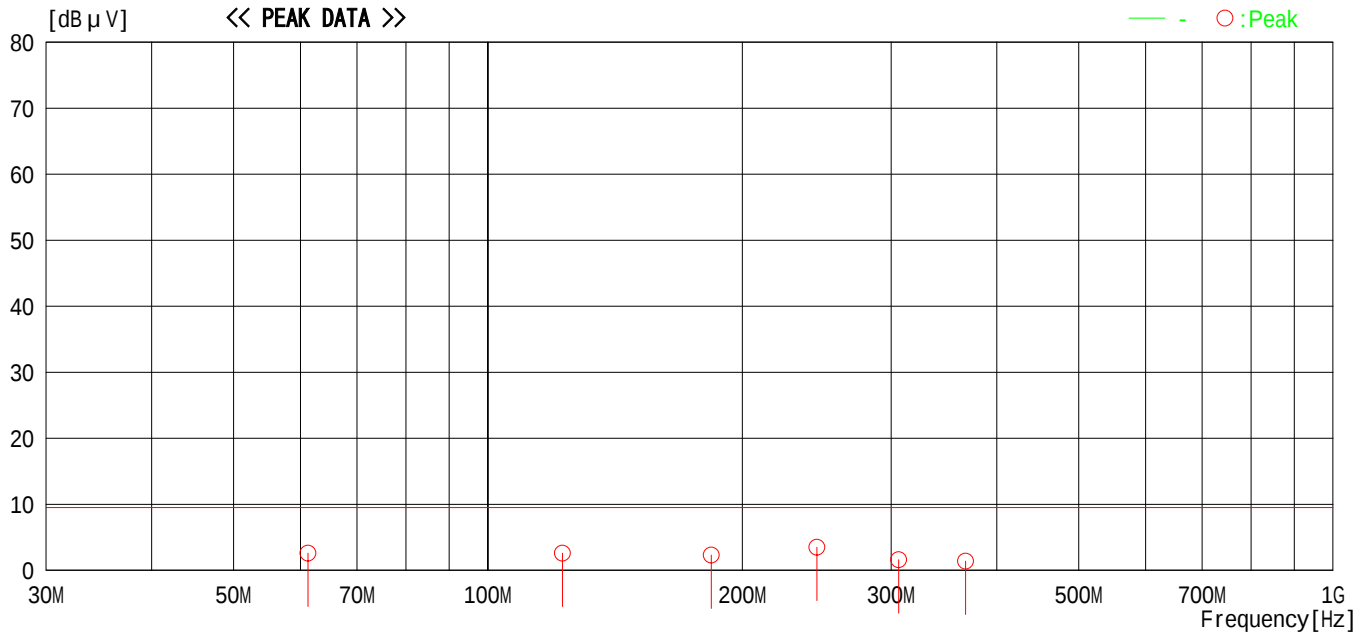
UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : SD-V393SU1
TEMP./HUMID. : 26 /68%

REPORT NO : 25HE0265-YW-1
DATE : March 30 ,2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

OPERATION MODE : Av Input1 + Rec (5V p-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]	[dB]	[dB]	
1	61.2500	21.7	----	-19.1	2.6	----	9.5	----	6.9	----	-
2	122.5000	21.6	----	-19.0	2.6	----	9.5	----	6.9	----	-
3	183.7500	21.1	----	-18.8	2.3	----	9.5	----	7.2	----	-
4	245.0000	22.6	----	-19.1	3.5	----	9.5	----	6.0	----	-
5	306.2500	21.0	----	-19.4	1.6	----	9.5	----	7.9	----	-
6	367.5000	20.8	----	-19.4	1.4	----	9.5	----	8.1	----	-

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

DATA OF ANTENNA TRANSFER SWITCH TEST

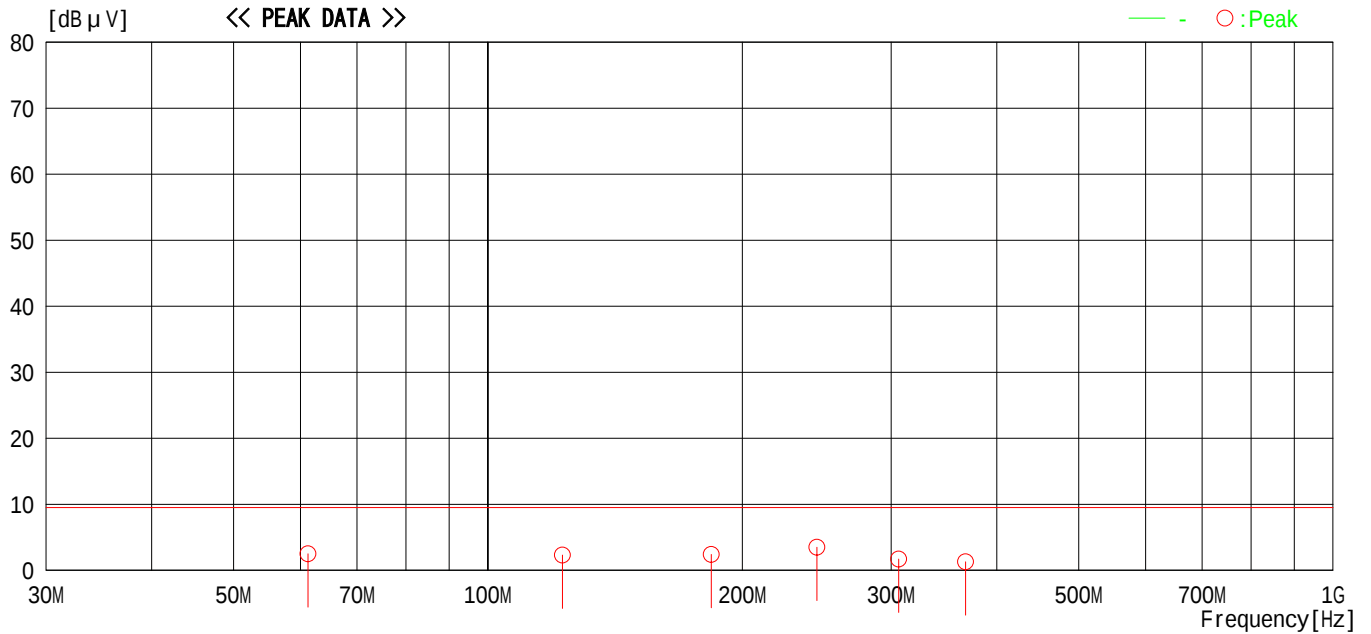
UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : SD-V393SU1
TEMP./HUMID. : 26 /68%

REPORT NO : 25HE0265-YW-1
DATE : March 30 ,2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

OPERATION MODE : Av Input 2 + Rec (1V p-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]	[dB]	[dB]	
1	61.2500	21.6	----	-19.1	2.5	----	9.5	----	7.0	----	-
2	122.5000	21.3	----	-19.0	2.3	----	9.5	----	7.2	----	-
3	183.7500	21.2	----	-18.8	2.4	----	9.5	----	7.1	----	-
4	245.0000	22.6	----	-19.1	3.5	----	9.5	----	6.0	----	-
5	306.2500	21.1	----	-19.4	1.7	----	9.5	----	7.8	----	-
6	367.5000	20.7	----	-19.4	1.3	----	9.5	----	8.2	----	-

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

DATA OF ANTENNA TRANSFER SWITCH TEST

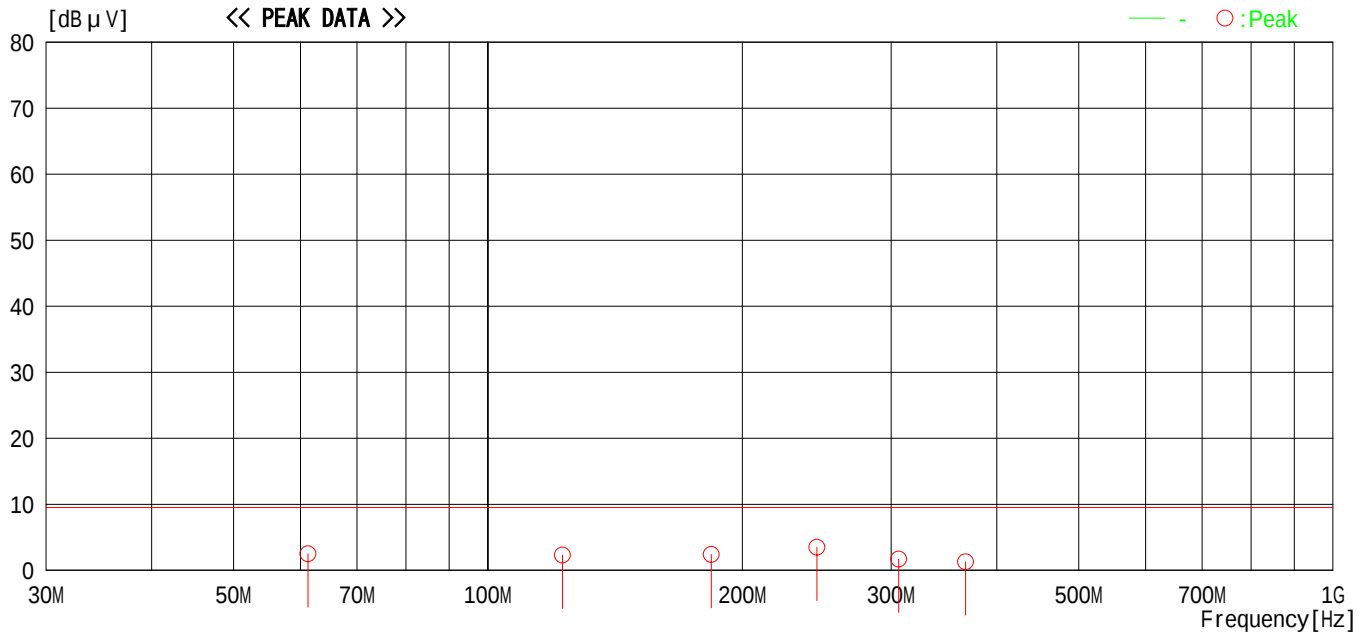
UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : SD-V393SU1
TEMP./HUMID. : 26 /68%

REPORT NO : 25HE0265-YW-1
DATE : March 30 ,2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

OPERATION MODE : Av Input 2 + Rec (5V p-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]	[dB]	[dB]	
1	61.2500	21.6	----	-19.1	2.5	----	9.5	----	7.0	----	-
2	122.5000	21.3	----	-19.0	2.3	----	9.5	----	7.2	----	-
3	183.7500	21.2	----	-18.8	2.4	----	9.5	----	7.1	----	-
4	245.0000	22.6	----	-19.1	3.5	----	9.5	----	6.0	----	-
5	306.2500	21.1	----	-19.4	1.7	----	9.5	----	7.8	----	-
6	367.5000	20.7	----	-19.4	1.3	----	9.5	----	8.2	----	-

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

DATA OF ANTENNA TRANSFER SWITCH TEST

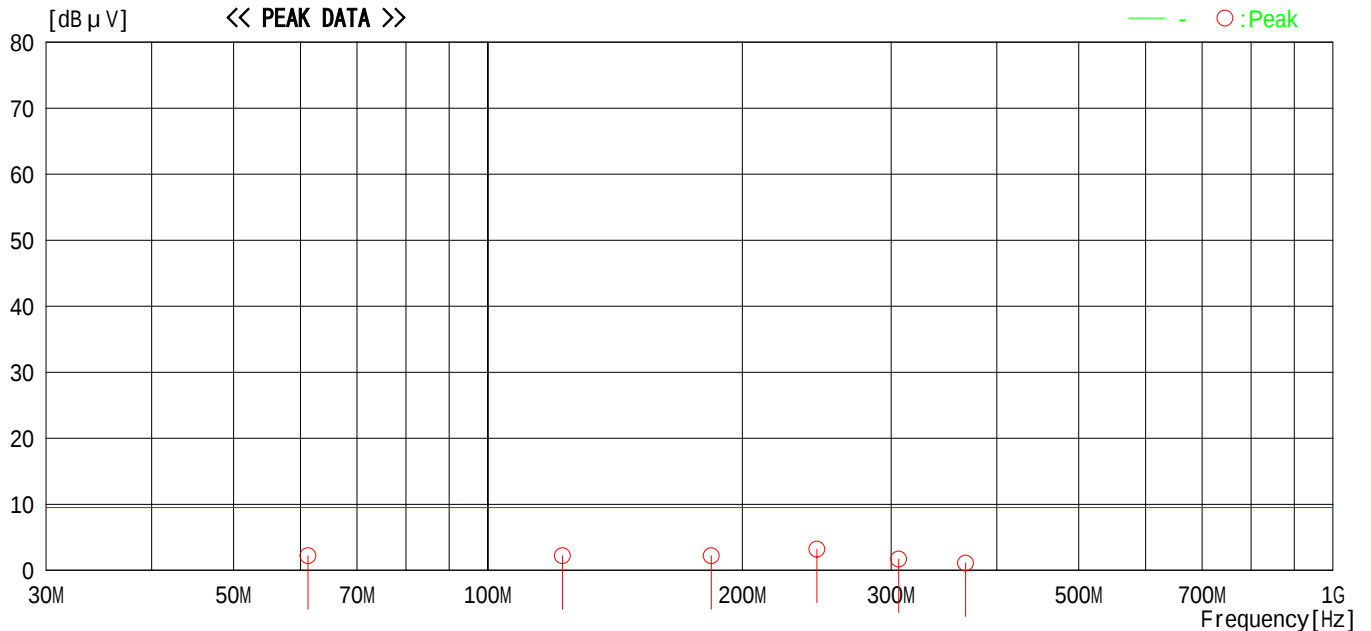
UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : SD-V393SU1
TEMP./HUMID. : 26 /68%

REPORT NO : 25HE0265-YW-1
DATE : March 30 ,2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

OPERATION MODE : VCR Platback (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]	[dB]	[dB]	
1	61.2500	21.3	----	-19.1	2.2	----	9.5	----	7.3	----	-
2	122.5000	21.2	----	-19.0	2.2	----	9.5	----	7.3	----	-
3	183.7500	21.0	----	-18.8	2.2	----	9.5	----	7.3	----	-
4	245.0000	22.3	----	-19.1	3.2	----	9.5	----	6.3	----	-
5	306.2500	21.1	----	-19.4	1.7	----	9.5	----	7.8	----	-
6	367.5000	20.5	----	-19.4	1.1	----	9.5	----	8.4	----	-

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

DATA OF ANTENNA TRANSFER SWITCH TEST

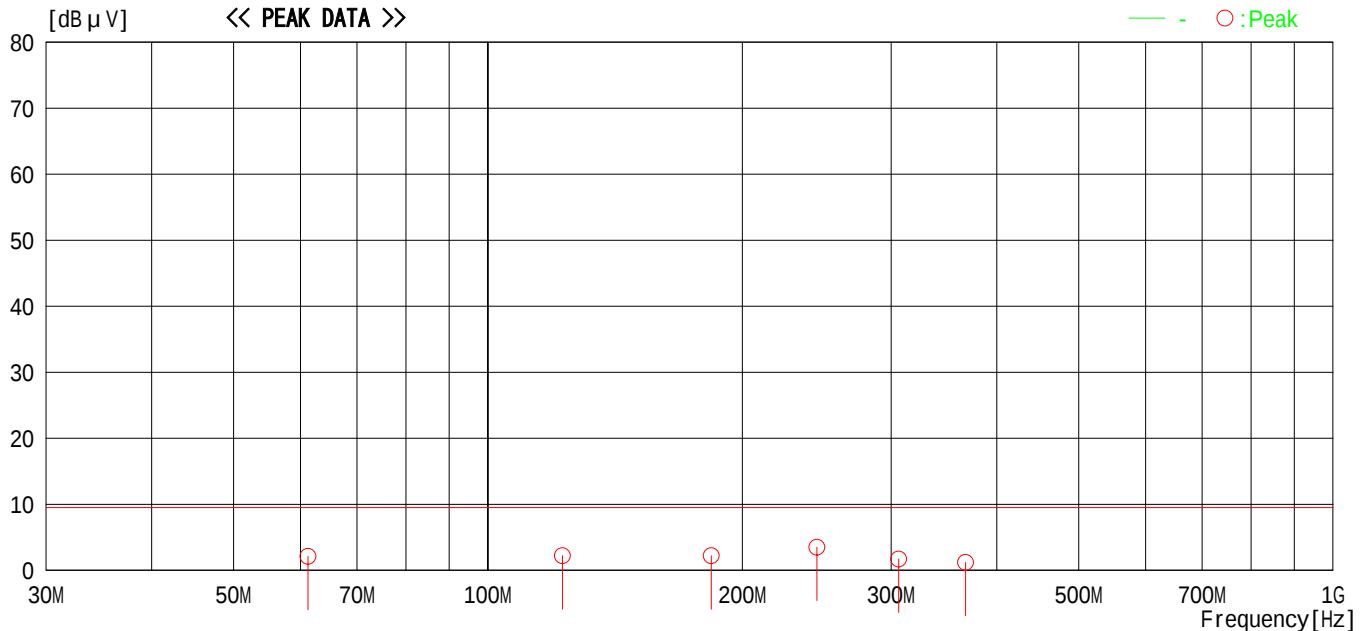
UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : SD-V393SU1
TEMP./HUMID. : 26 /68%

REPORT NO : 25HE0265-YW-1
DATE : March 30 ,2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

OPERATION MODE : DVD Play (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]	[dB]	[dB]	
1	61.2500	21.2	----	-19.1	2.1	----	9.5	----	7.4	----	-
2	122.5000	21.2	----	-19.0	2.2	----	9.5	----	7.3	----	-
3	183.7500	21.0	----	-18.8	2.2	----	9.5	----	7.3	----	-
4	245.0000	22.6	----	-19.1	3.5	----	9.5	----	6.0	----	-
5	306.2500	21.1	----	-19.4	1.7	----	9.5	----	7.8	----	-
6	367.5000	20.6	----	-19.4	1.2	----	9.5	----	8.3	----	-

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

DATA OF ANTENNA TRANSFER SWITCH TEST

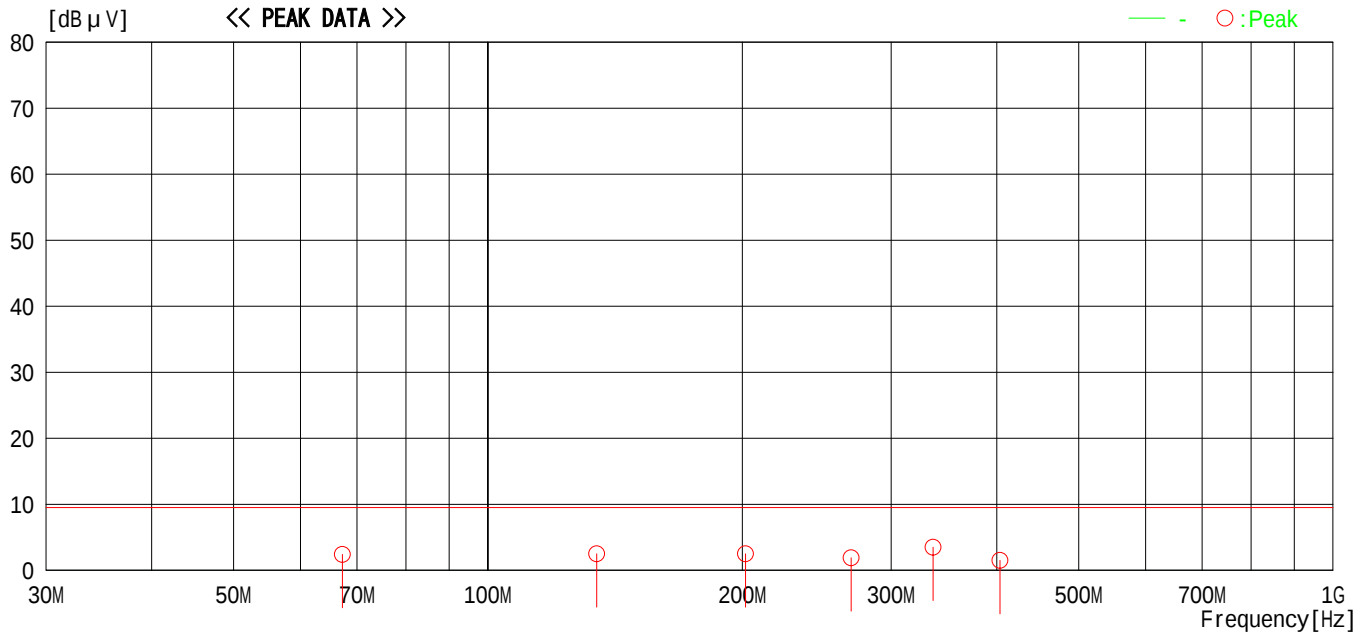
UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : SD-V393SU1
TEMP./HUMID. : 26 /68%

REPORT NO : 25HE0265-YW-1
DATE : March 30 ,2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

OPERATION MODE : AV Input1 + Rec (1Vp-p : 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]	[dB]	[dB]	
1	67.2500	21.3	----	-18.9	2.4	----	9.5	----	7.1	----	-
2	134.5000	21.4	----	-18.9	2.5	----	9.5	----	7.0	----	-
3	201.7500	21.3	----	-18.8	2.5	----	9.5	----	7.0	----	-
4	269.0000	21.1	----	-19.2	1.9	----	9.5	----	7.6	----	-
5	336.2500	22.9	----	-19.4	3.5	----	9.5	----	6.0	----	-
6	403.5000	21.0	----	-19.5	1.5	----	9.5	----	8.0	----	-

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

DATA OF ANTENNA TRANSFER SWITCH TEST

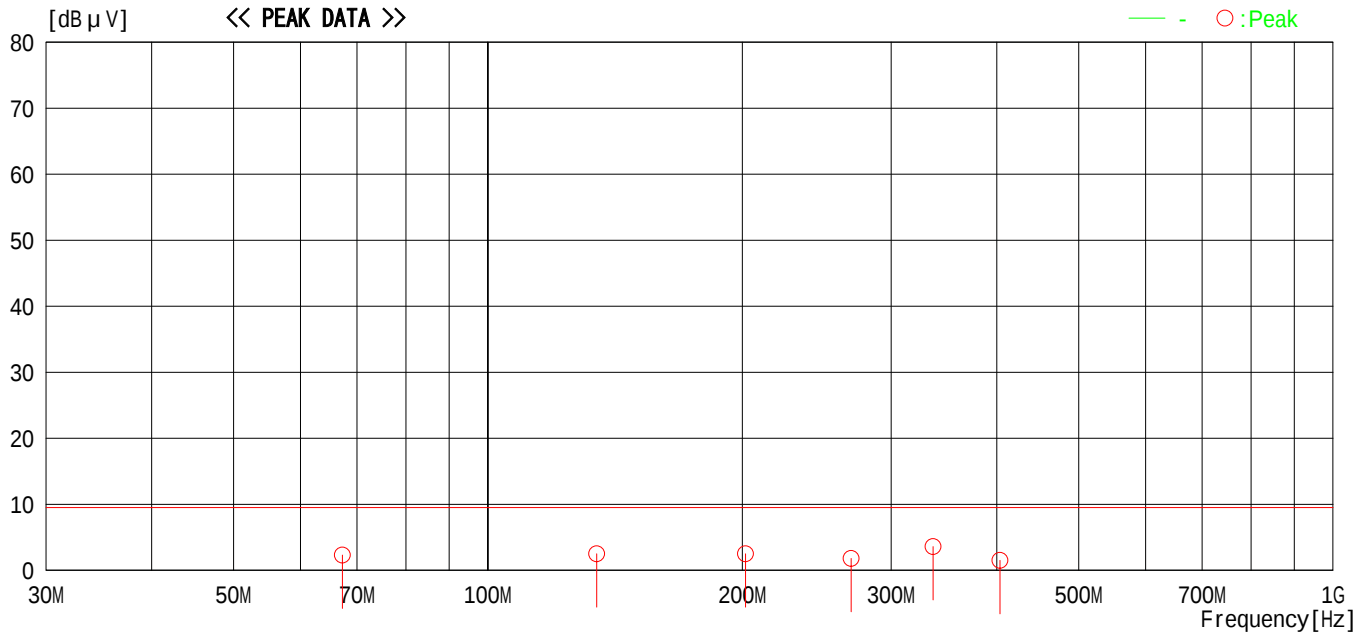
UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : SD-V393SU1
TEMP./HUMID. : 26 /68%

REPORT NO : 25HE0265-YW-1
DATE : March 30 ,2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

OPERATION MODE : AV Input1 + Rec (5Vp-p : 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]	[dB]	[dB]	
1	67.2500	21.2	----	-18.9	2.3	----	9.5	----	7.2	----	-
2	134.5000	21.4	----	-18.9	2.5	----	9.5	----	7.0	----	-
3	201.7500	21.3	----	-18.8	2.5	----	9.5	----	7.0	----	-
4	269.0000	21.0	----	-19.2	1.8	----	9.5	----	7.7	----	-
5	336.2500	23.0	----	-19.4	3.6	----	9.5	----	5.9	----	-
6	403.5000	21.0	----	-19.5	1.5	----	9.5	----	8.0	----	-

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

DATA OF ANTENNA TRANSFER SWITCH TEST

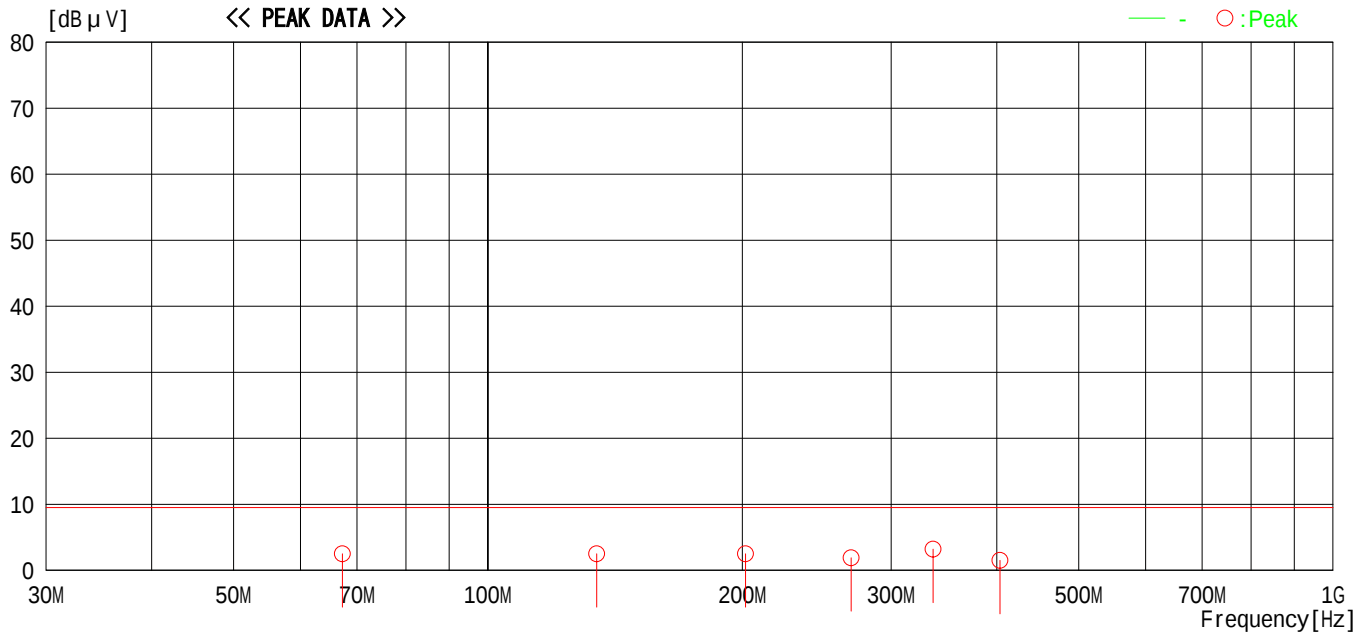
UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : SD-V393SU1
TEMP./HUMID. : 26 /68%

REPORT NO : 25HE0265-YW-1
DATE : March 30 ,2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

OPERATION MODE : AV Input2 + Rec (1Vp-p : 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]	[dB]	[dB]	
1	67.2500	21.4	----	-18.9	2.5	----	9.5	----	7.0	----	-
2	134.5000	21.4	----	-18.9	2.5	----	9.5	----	7.0	----	-
3	201.7500	21.3	----	-18.8	2.5	----	9.5	----	7.0	----	-
4	269.0000	21.1	----	-19.2	1.9	----	9.5	----	7.6	----	-
5	336.2500	22.6	----	-19.4	3.2	----	9.5	----	6.3	----	-
6	403.5000	21.0	----	-19.5	1.5	----	9.5	----	8.0	----	-

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

DATA OF ANTENNA TRANSFER SWITCH TEST

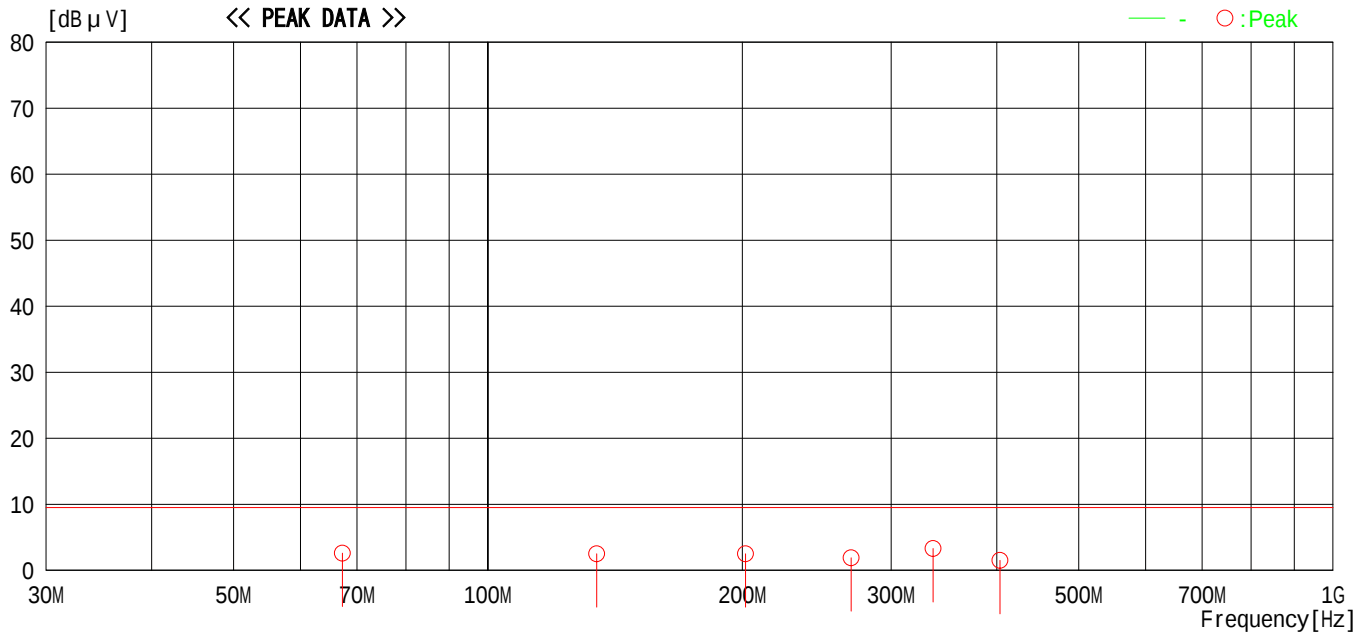
UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : SD-V393SU1
TEMP./HUMID. : 26 /68%

REPORT NO : 25HE0265-YW-1
DATE : March 30 ,2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

OPERATION MODE : AV Input2 + Rec (5Vp-p : 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]	[dB]	[dB]	
1	67.2500	21.5	----	-18.9	2.6	----	9.5	----	6.9	----	-
2	134.5000	21.4	----	-18.9	2.5	----	9.5	----	7.0	----	-
3	201.7500	21.3	----	-18.8	2.5	----	9.5	----	7.0	----	-
4	269.0000	21.1	----	-19.2	1.9	----	9.5	----	7.6	----	-
5	336.2500	22.7	----	-19.4	3.3	----	9.5	----	6.2	----	-
6	403.5000	21.0	----	-19.5	1.5	----	9.5	----	8.0	----	-

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

DATA OF ANTENNA TRANSFER SWITCH TEST

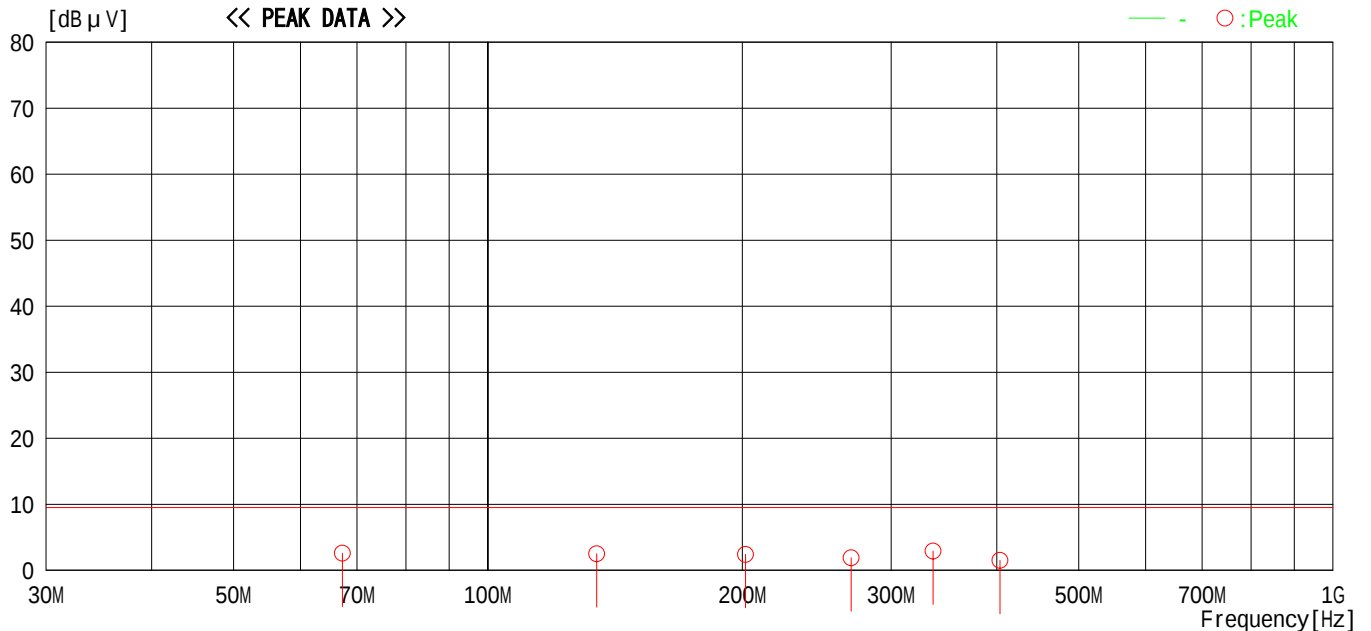
UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : SD-V393SU1
TEMP./HUMID. : 26 /68%

REPORT NO : 25HE0265-YW-1
DATE : March 30 ,2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

OPERATION MODE : VCR Playback (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]	[dB]	[dB]	
1	67.2500	21.5	----	-18.9	2.6	----	9.5	----	6.9	----	-
2	134.5000	21.4	----	-18.9	2.5	----	9.5	----	7.0	----	-
3	201.7500	21.2	----	-18.8	2.4	----	9.5	----	7.1	----	-
4	269.0000	21.1	----	-19.2	1.9	----	9.5	----	7.6	----	-
5	336.2500	22.3	----	-19.4	2.9	----	9.5	----	6.6	----	-
6	403.5000	21.0	----	-19.5	1.5	----	9.5	----	8.0	----	-

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

DATA OF ANTENNA TRANSFER SWITCH TEST

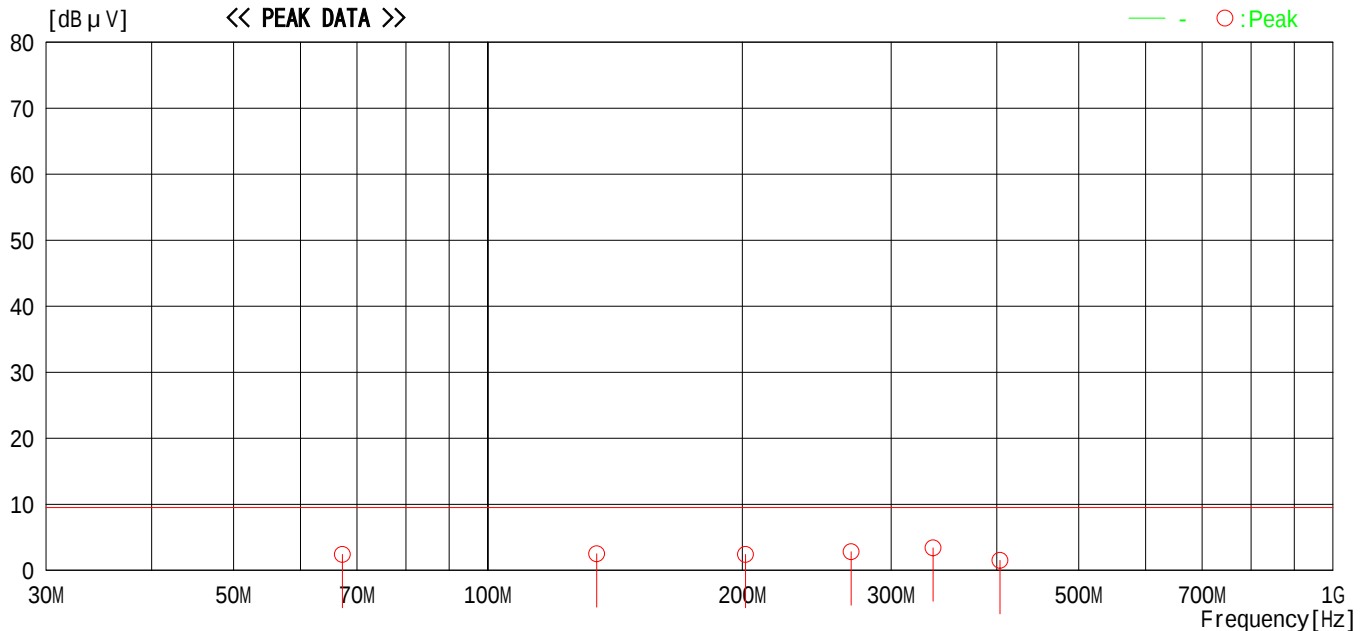
UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : SD-V393SU1
TEMP./HUMID. : 26 /68%

REPORT NO : 25HE0265-YW-1
DATE : March 30 ,2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

OPERATION MODE : DVD Play (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]	[dB]	[dB]	
1	67.2500	21.3	----	-18.9	2.4	----	9.5	----	7.1	----	-
2	134.5000	21.4	----	-18.9	2.5	----	9.5	----	7.0	----	-
3	201.7500	21.2	----	-18.8	2.4	----	9.5	----	7.1	----	-
4	269.0000	22.0	----	-19.2	2.8	----	9.5	----	6.7	----	-
5	336.2500	22.8	----	-19.4	3.4	----	9.5	----	6.1	----	-
6	403.5000	21.0	----	-19.5	1.5	----	9.5	----	8.0	----	-

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-V393SU1
Power : 120V/60Hz
Description : TV Reception
Remarks : -

Report Number : 25HE0265-YW-1
Regulation : FCC Part15 Subpart B
Date : March 30, 2005
Temp / Humid : 23deg.C / 45%
Engineer : Tsubasa Takayama

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	21.4	11.7
3	61.25	18.2	8.1	20	507.25	21.6	12.0
4	67.25	17.6	7.6	26	543.25	22.4	13.2
5	77.25	17.8	7.8	32	579.25	22.9	14.0
6	83.25	17.9	7.9	38	615.25	22.9	14.0
7	175.25	21.4	11.7	44	651.25	22.1	12.7
8	181.25	20.5	10.6	50	687.25	21.0	11.2
9	187.25	20.3	10.4	56	723.25	21.0	11.2
10	193.25	20.1	10.1	62	759.25	21.3	11.6
11	199.25	20.3	10.4	69	801.25	21.5	11.9
12	205.25	20.4	10.5	-	-	-	-
13	211.25	20.3	10.4	-	-	-	-
Average VHF			9.6	Average UHF			12.4
Average UHF/VHF : $20 \log \text{UHF}[\mu\text{V}] / \text{VHF}[\mu\text{V}] =$				2.2 [Limit : 8.0dB]			

Noise Figure Test

UL Apex Co.,Ltd.
Yokowa EMC Laboratory

Company : Orion Electric Co., Ltd.
Equipment : DVD/VCR
Model Number : SD-V393SU1
Power : 120V/60Hz
Description : TV Reception
Remarks : -

Report Number : 25HE0265-YW-1
Regulation : FCC Part15 Subpart B
Date : March 30, 2005
Temp / Humid : 23deg.C / 45%
Engineer : Tsubasa Takayama

Ch	Frequency [MHz]	Meter Reading [dB]	Correction Factor [dB]	Noise Figure [dB]	Limits [dB]	Margin [dB]
TV VHF Fundamental						
2	55.25	4.4	0.2	4.2	14.0	9.8
3	61.25	3.6	0.2	3.4	14.0	10.6
4	67.25	3.3	0.2	3.1	14.0	10.9
5	77.25	2.9	0.2	2.7	14.0	11.3
6	83.25	3.5	0.2	3.3	14.0	10.7
7	175.25	5.0	0.2	4.8	14.0	9.2
8	181.25	4.4	0.2	4.2	14.0	9.8
9	187.25	4.3	0.2	4.1	14.0	9.9
10	193.25	4.3	0.2	4.1	14.0	9.9
11	199.25	4.4	0.2	4.2	14.0	9.8
12	205.25	4.5	0.2	4.3	14.0	9.7
13	211.25	4.6	0.2	4.4	14.0	9.6
TV UHF Fundamental						
14	471.25	5.4	0.3	5.1	14.0	8.9
20	507.25	5.8	0.3	5.5	14.0	8.5
26	543.25	6.2	0.3	5.9	14.0	8.1
32	579.25	6.4	0.3	6.1	14.0	7.9
38	615.25	6.9	0.3	6.6	14.0	7.4
44	651.25	6.2	0.3	5.9	14.0	8.1
50	687.25	5.1	0.3	4.8	14.0	9.2
56	723.25	5.1	0.4	4.7	14.0	9.3
62	759.25	5.3	0.4	4.9	14.0	9.1
69	801.25	5.7	0.4	5.3	14.0	8.7
Mid band						
14	121.25	3.5	0.2	3.3	14.0	10.7
16	133.25	8.8	0.2	8.6	14.0	5.4
18	145.25	6.9	0.2	6.7	14.0	7.3
20	157.25	5.8	0.2	5.6	14.0	8.4
22	169.25	5.4	0.2	5.2	14.0	8.8
Super band						
23	217.25	4.7	0.2	4.5	14.0	9.5
26	235.25	5.0	0.2	4.8	14.0	9.2
29	253.25	5.2	0.2	5.0	14.0	9.0
32	271.25	5.1	0.2	4.9	14.0	9.1
36	295.25	5.0	0.2	4.8	14.0	9.2

Test Report No : 25HE0265-YW-1

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	2004/05/14 * 12
IP-06	Matching Pad	TME	ZT-301	PS, NF	2004/05/06 * 12
IP-03	Matching Pad	TME	ZT-130	AT, RF, ATS	2004/09/10 * 12
APNFM01	Noise Figure Indicator	Elena	ENF-2005	NF	2004/10/04 * 12
APNFS01	Noise Source	Elena	MC1100	NF	-
AV01-01	Signal Generator	Rohde & Schwarz	SMY01	PS	2005/02/23 * 12
SS-05	Digitizing Oscilloscope	Sony Tektronix	2221	PS	2005/01/11 * 12
APBPF01	Band pass filter	Erika Fiedler	BP	PS	Pre Check
AF-05	Pre Amplifier	Hewlett Packard	8447D	AT, RF, ATS	2004/05/31 * 12
AF-06	Pre Amplifier	Agilent	HP8449B	RE, AT	2005/01/18 * 12
APCBL-01	Coaxial Cable	Fujikura	5D-2W	AT, RF, ATS	2004/12/27 * 12
APCBL-02	Coaxial Cable	Fujikura	5D-2W	AT, RF, ATS	2004/12/27 * 12
OS-02	Digital Humidity Indicator	SATO	PC-5000TRH- II	RF, ATS, PS, NF	2004/04/06 * 24
AF-01	Pre Amplifier	Hewlett Packard	8447D	RE	2005/03/25 * 12
AT-06	Attenuator	Anritsu	MP721B	RE	2005/03/22 * 12
BA-06	Biconical Antenna	Schwarzbeck	BBA9106	RE	2005/01/29 * 12
HA-02	Horn Antenna	A.H.Systems	SAS-200/571	RE	2005/04/06 * 12
LA-07	Logperiodic Antenna	Schwarzbeck	UKLP9140-A	RE	2005/01/29 * 12
LS-04	LISN(AMN)	Rohde & Schwarz	ESH3-Z5	CE	2004/10/29 * 12
LS-07	LISN(AMN)	Schwarzbeck	NSLK8126	CE (EUT)	2004/10/29 * 12
SA-06	Spectrum Analyzer	Advantest	R3273	CE, RE	2004/11/02 * 12
TA-07	Terminator	TME	CT-01	CE	2004/05/02 * 12
TR-05	Test Receiver	Rohde & Schwarz	ESHS10	CE	2004/10/21 * 12
TR-06	Test Receiver	Rohde & Schwarz	ESVS10	RE	2004/10/29 * 12
CC-30RC	Yokowa No.3 open coaxial(0.01-1000MHz)	UL Apex	CC-31,CC-32,CC-33, CC-34,CC-35,CC-36, CC-37,SW-31,SW-32	RE	2005/03/25 * 12
CC-3S	Yokowa No.3 shield coaxial(0.01-1000MHz)	UL Apex	CC-34,CC-35,CC-36, CC-38,SW-31,SW-32	CE	2005/03/25 * 12
YOATS-03	Open Test Site	JSE	3m, 10m	RE	2004/08/15 * 12
OS-11	Digital Humidity Indicator	SATO	PC-5000TRH	CE	2004/04/20 * 24
OS-16	Digital Humidity Indicator	SATO	PC-5000TRH	RE	2004/05/07 * 24
CC-C1	Microwave Cable	Suhner/storm	-	RE	2004/12/15 * 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