

DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.3 OPEN TEST SITE

Report No. : 25KE0116-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Player with Video Cassette Recorder
Model No. : SD-V393SU2
Serial No. : -
Power : AC120V/60Hz
Mode : TV Reception + Rec
Remarks : 0dBmV
Date : 6/29/2005
Test Distance : 3 m
Temperature : 27 °C
Humidity : 52 %
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.	675.01	BB	31.4	33.1	22.0	27.3	6.3	5.9	38.3	40.0	46.0	7.7	6.0
2.	810.02	BB	30.5	31.9	23.3	27.1	7.0	5.9	39.6	41.0	46.0	6.4	5.0
3.	945.03	BB	26.1	27.2	26.1	27.1	7.8	6.0	38.9	40.0	46.0	7.1	6.0

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

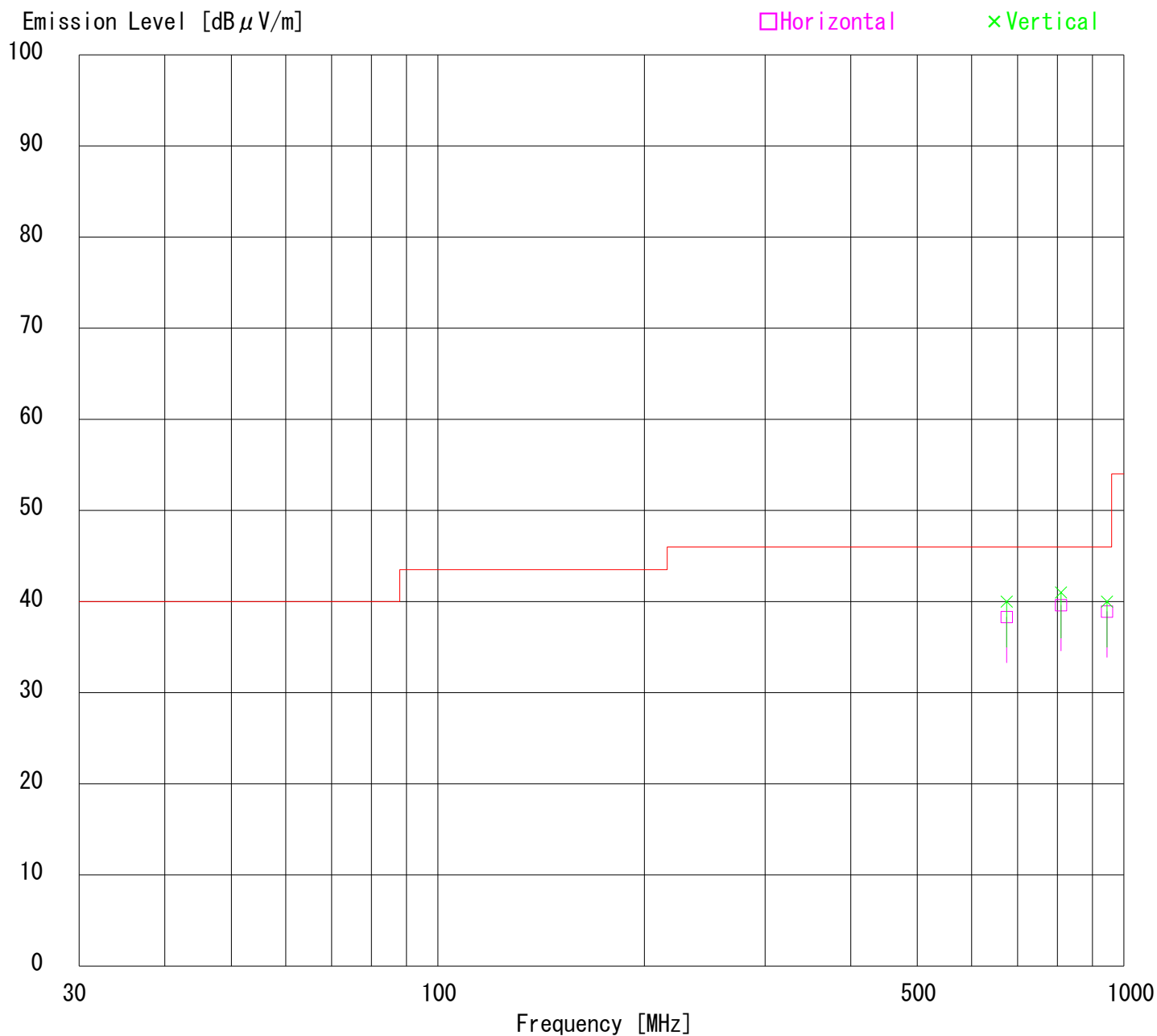
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Power : AC120V/60Hz
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Engineer : Tsubasa Takayama



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YOKOWA No.3 OPEN TEST SITE

Report No. : 25KE0116-YW-1

Applicant : Orion Electric Co.,Ltd.
 Kind of Equipment : DVD Player with Video Cassette Recorder
 Model No. : SD-V393SU2
 Serial No. : -
 Power : AC120V/60Hz
 Mode : TV Reception + Rec
 Remarks : 25dBmV
 Date : 6/29/2005
 Test Distance : 3 m
 Temperature : 27 °C
 Humidity : 52 %
 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.	202.51	BB	34.1	30.6	17.1	27.8	3.1	5.9	32.4	28.9	43.5	11.1	14.6
2.	270.00	BB	35.5	33.9	18.5	27.8	3.7	6.0	35.9	34.3	46.0	10.1	11.7
3.	337.52	BB	30.2	29.4	17.1	27.9	4.2	6.0	29.6	28.8	46.0	16.4	17.2
4.	405.01	BB	32.6	35.5	17.9	28.0	4.7	5.9	33.1	36.0	46.0	12.9	10.0
5.	540.02	BB	26.8	27.4	19.8	27.9	5.5	5.9	30.1	30.7	46.0	15.9	15.3
6.	675.01	BB	31.1	33.3	22.0	27.3	6.3	5.9	38.0	40.2	46.0	8.0	5.8
7.	810.02	BB	30.5	32.2	23.3	27.1	7.0	5.9	39.6	41.3	46.0	6.4	4.7
8.	945.03	BB	26.2	27.2	26.1	27.1	7.8	6.0	39.0	40.0	46.0	7.0	6.0

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

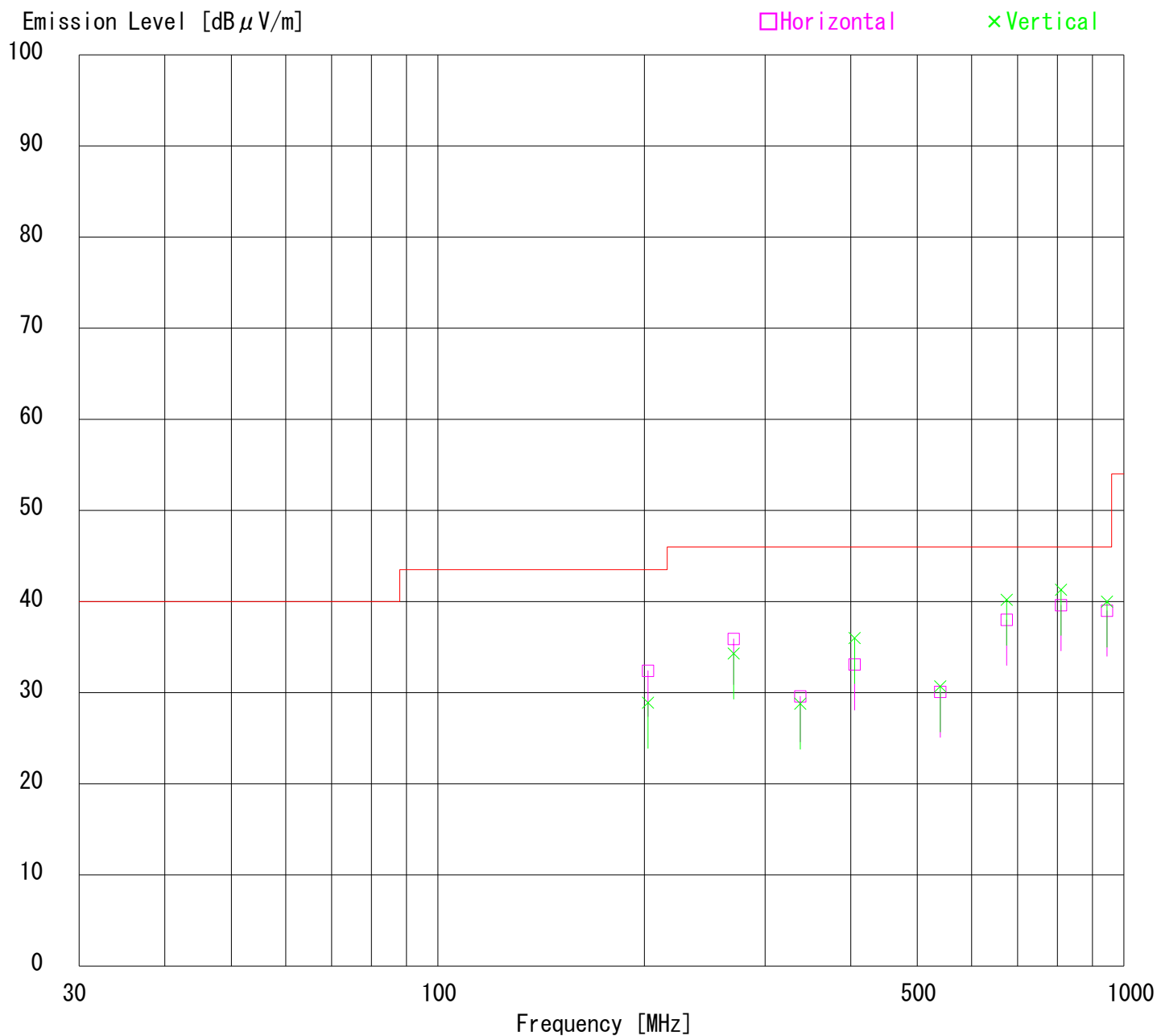
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Power : AC120V/60Hz
Mode : TV Reception + Rec
Remarks : 25dBmV
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Temperature : 27 °C
Humidity : 52 %
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama



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Model No. : SD-V393SU2
Serial No. : -
Power : AC120V/60Hz
Mode : TV Reception + Rec
Remarks : 25dBmV
Date : 7/8/2005
Test Distance : 3 m
Temperature : 22 °C Engineer : Tsubasa Takayama
Humidity : 46 %
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.	1215.02	BB	40.0	48.5	24.6	35.5	2.6	0.0	31.7	40.2	54.0	22.3	13.8	
2.	1755.02	BB	36.9	39.8	27.0	34.9	3.1	0.0	32.1	35.0	54.0	21.9	19.0	

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

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

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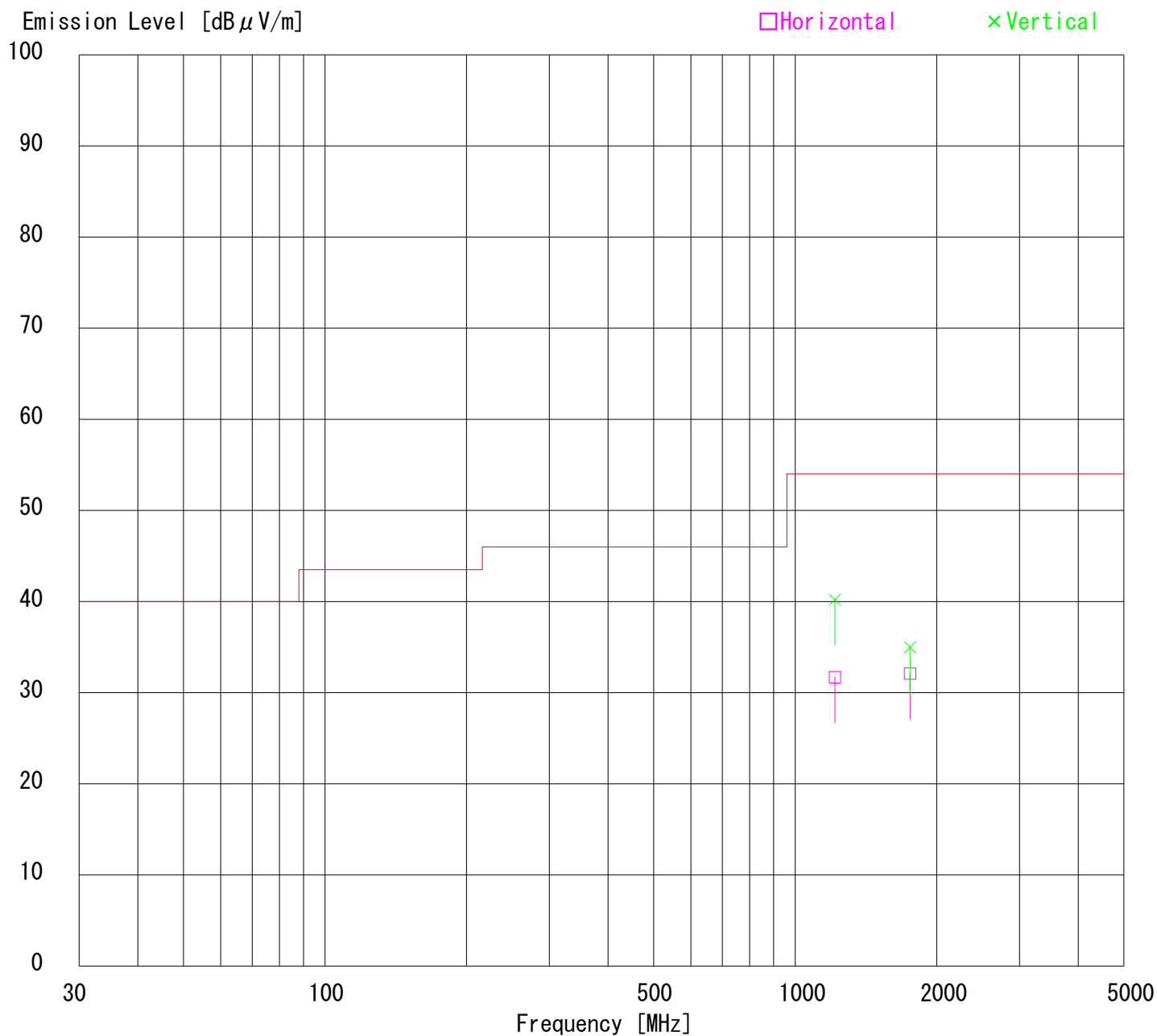
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Engineer : Tsubasa Takayama

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.	1215.02	BB	51.2	57.4	24.6	35.5	2.6	0.0	42.9	49.1	74.0	31.1	24.9
2.	1755.02	BB	47.8	49.0	27.0	34.9	3.1	0.0	43.0	44.2	74.0	31.0	29.8

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

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

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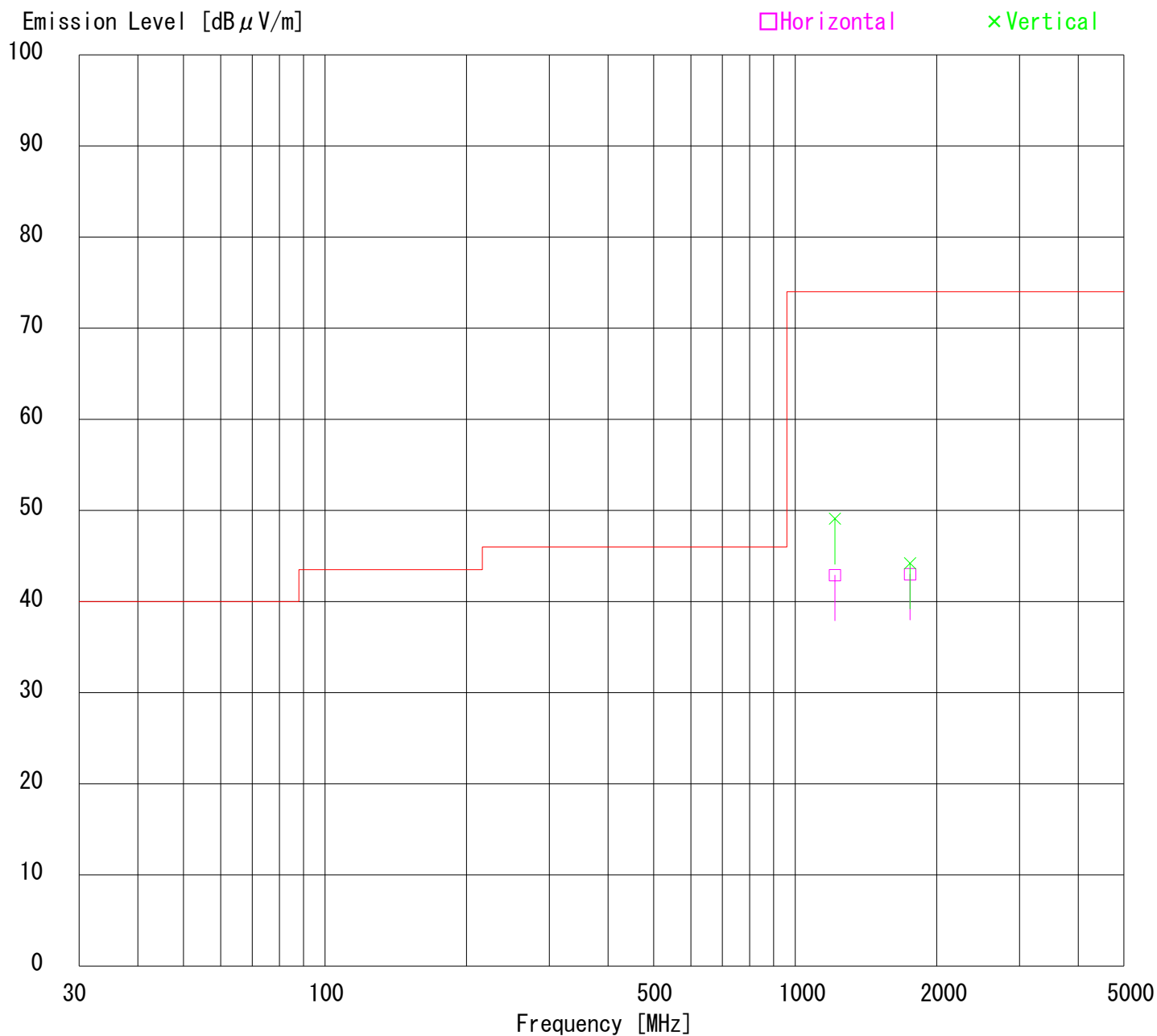
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Mode : TV Reception + Rec
Remarks : 25dBmV
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Test Distance : 3 m
Temperature : 22 °C
Humidity : 46 %
Regulation : FCC Part15B CLASS B (Peak Limit / Upper1GHz)

Engineer : Tsubasa Takayama



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Report No. : 25KE0116-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Player with Video Cassette Recorder
Model No. : SD-V393SU2
Serial No. : -
Power : AC120V/60Hz
Mode : AV Input1 + Rec
Remarks : 1Vp-p
Date : 6/29/2005
Test Distance : 3 m
Temperature : 27 °C
Humidity : 52 %
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.	675.02	BB	30.8	34.2	22.0	27.3	6.3	5.9	37.7	41.1	46.0	8.3	4.9
2.	810.02	BB	30.7	32.5	23.3	27.1	7.0	5.9	39.8	41.6	46.0	6.2	4.4
3.	945.03	BB	25.7	28.4	26.1	27.1	7.8	6.0	38.5	41.2	46.0	7.5	4.8

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

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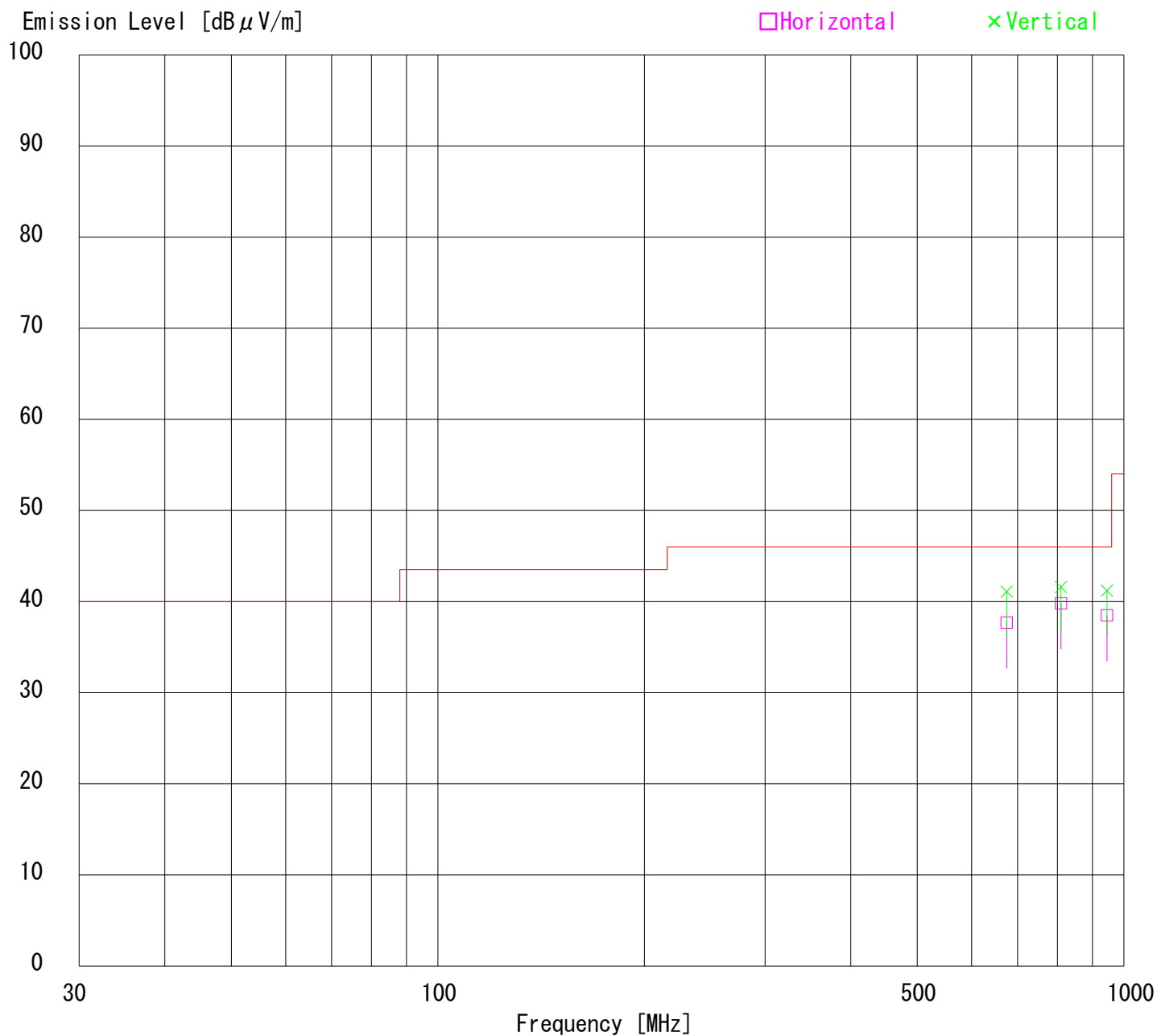
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Serial No. : -
Power : AC120V/60Hz
Mode : AV Input1 + Rec
Remarks : 5Vp-p
Date : 6/29/2005
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No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [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.	202.51	BB	32.3	31.2	17.1	27.8	3.1	5.9	30.6	29.5	43.5	12.9	14.0
2.	270.00	BB	36.1	38.2	18.5	27.8	3.7	6.0	36.5	38.6	46.0	9.5	7.4
3.	337.52	BB	31.4	31.4	17.1	27.9	4.2	6.0	30.8	30.8	46.0	15.2	15.2
4.	540.00	BB	28.7	26.7	19.8	27.9	5.5	5.9	32.0	30.0	46.0	14.0	16.0
5.	675.02	BB	30.8	34.5	22.0	27.3	6.3	5.9	37.7	41.4	46.0	8.3	4.6
6.	810.02	BB	30.7	32.6	23.3	27.1	7.0	5.9	39.8	41.7	46.0	6.2	4.3
7.	945.03	BB	25.9	28.4	26.1	27.1	7.8	6.0	38.7	41.2	46.0	7.3	4.8

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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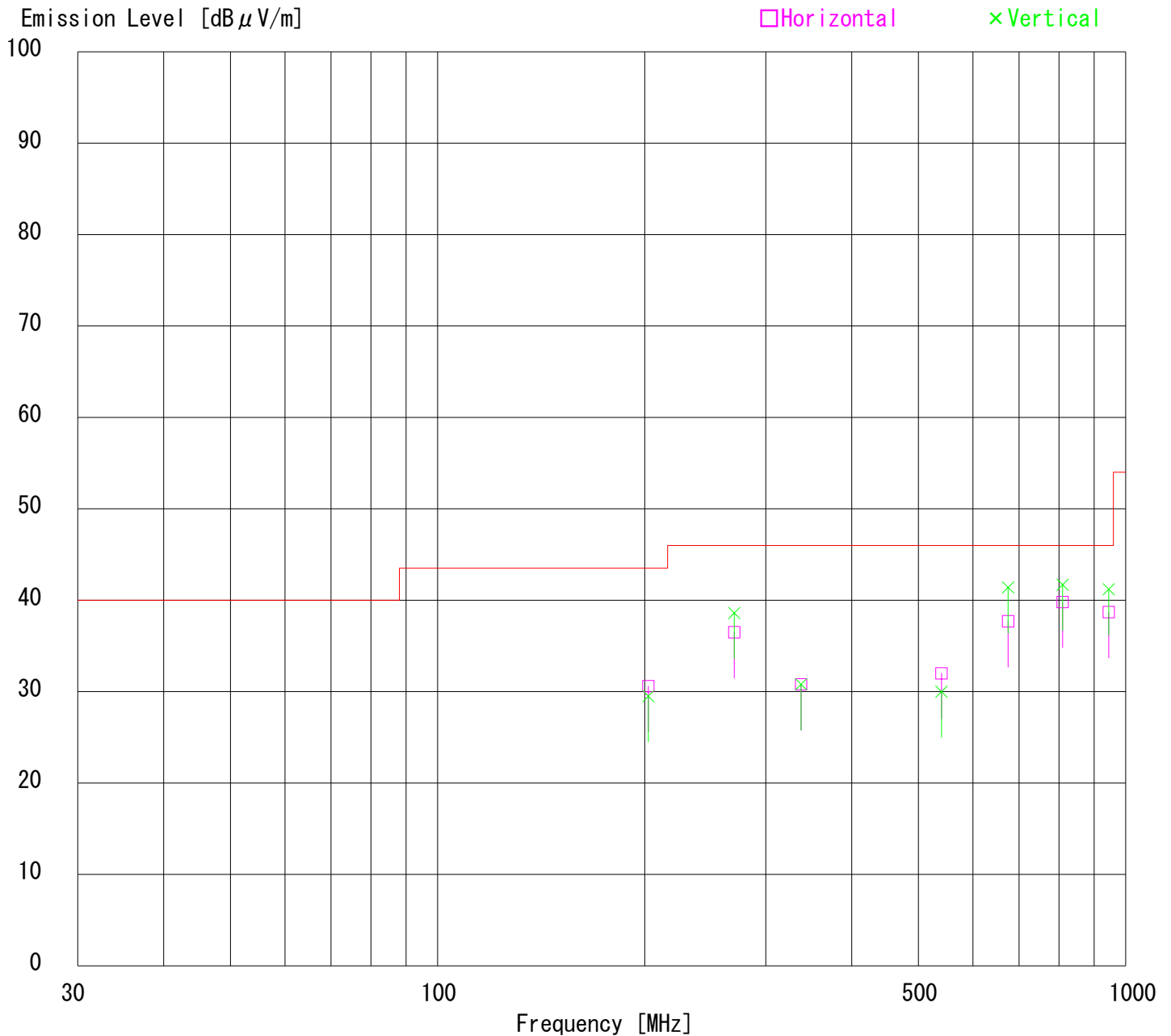
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Test Distance : 3 m
Temperature : 22 °C Engineer : Tsubasa Takayama
Humidity : 46 %
Regulation : FCC Part15B CLASS B (Average Limit / Upper1GHz)

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.	1215.01	BB	40.8	48.2	24.6	35.5	2.6	0.0	32.5	39.9	54.0	21.5	14.1
2.	1755.03	BB	40.3	42.5	27.0	34.9	3.1	0.0	35.5	37.7	54.0	18.5	16.3

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

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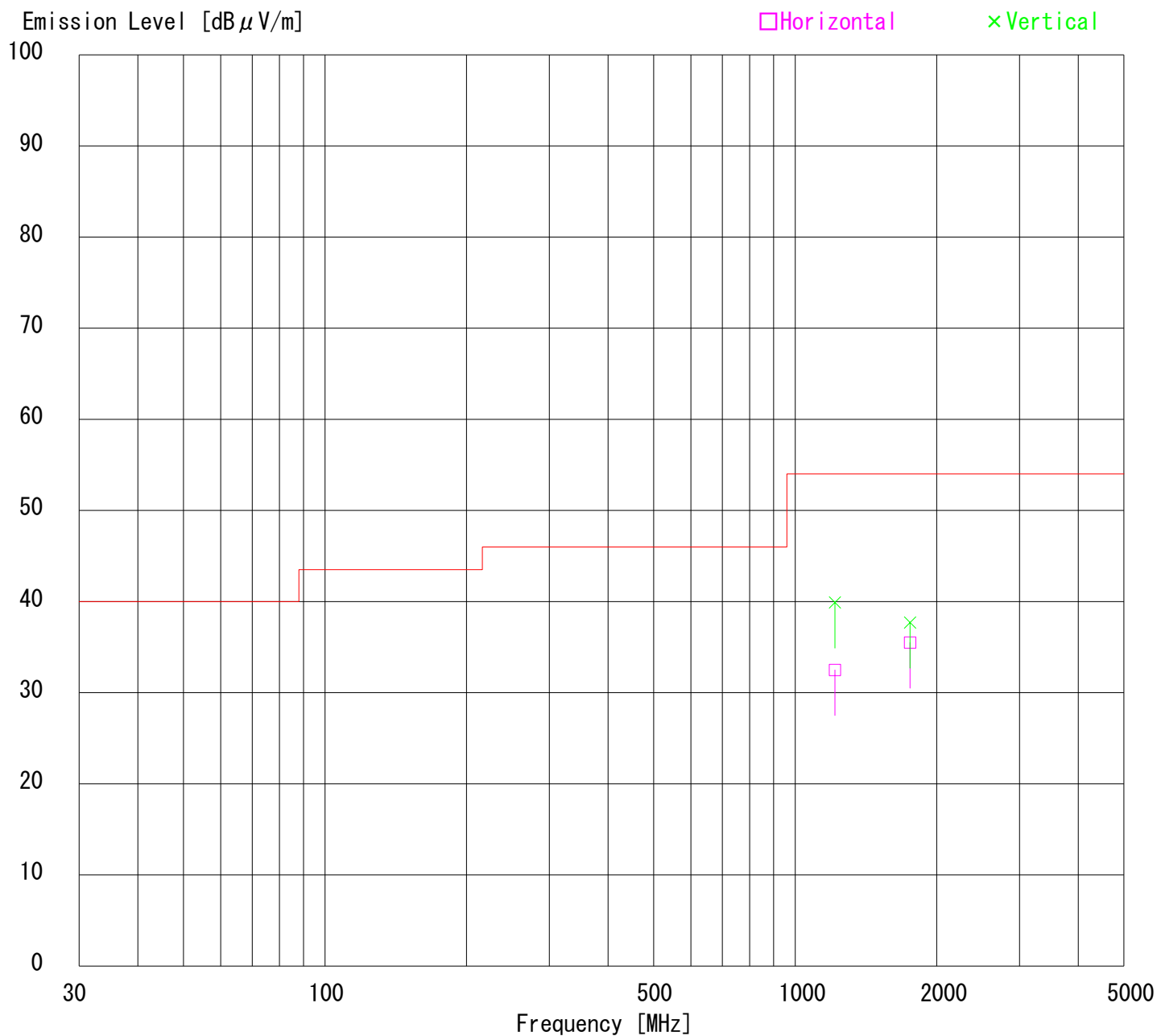
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2.	1755.03	BB	49.3	49.7	27.0	34.9	3.1	0.0	44.5	44.9	74.0	29.5	29.1

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

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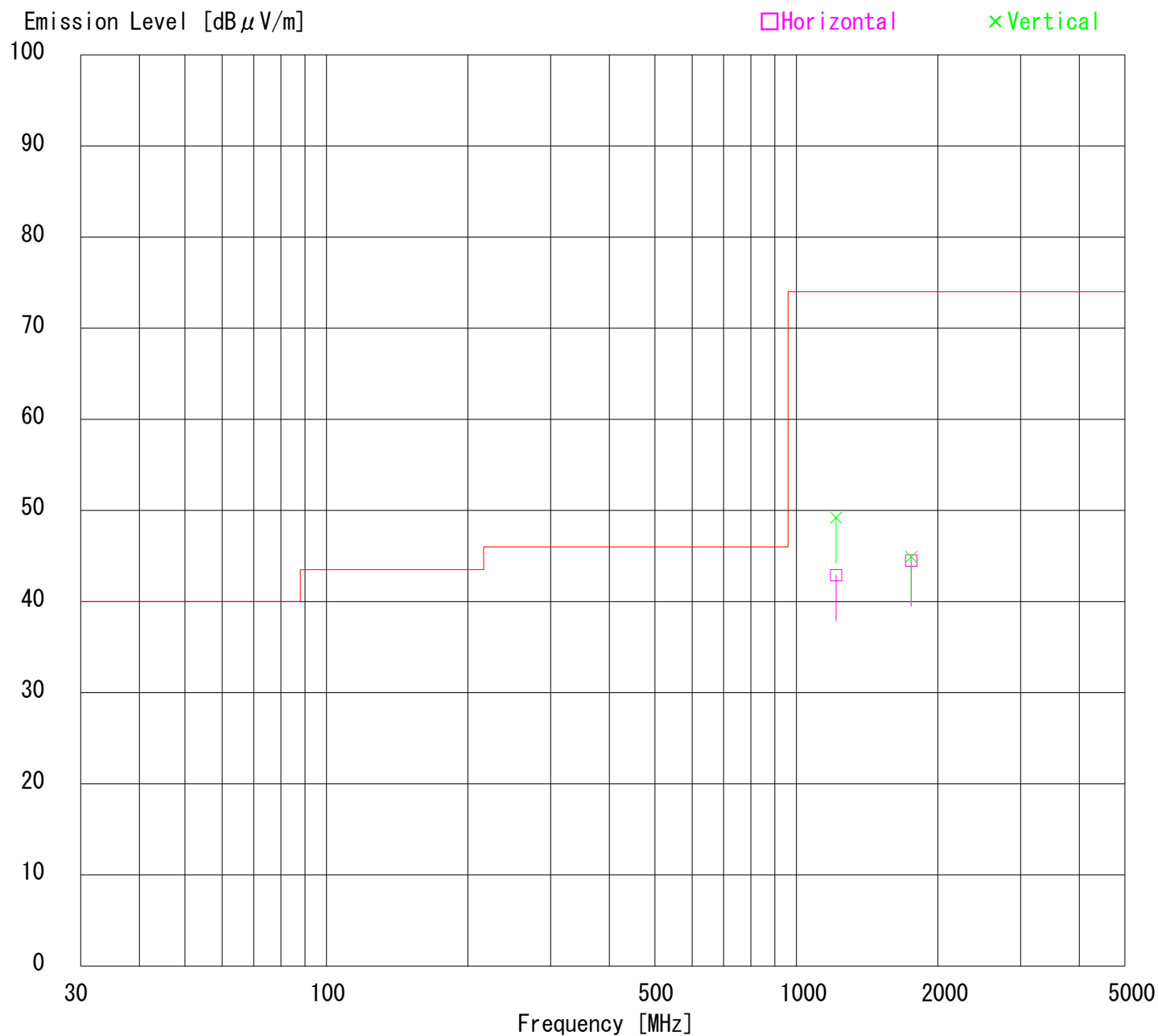
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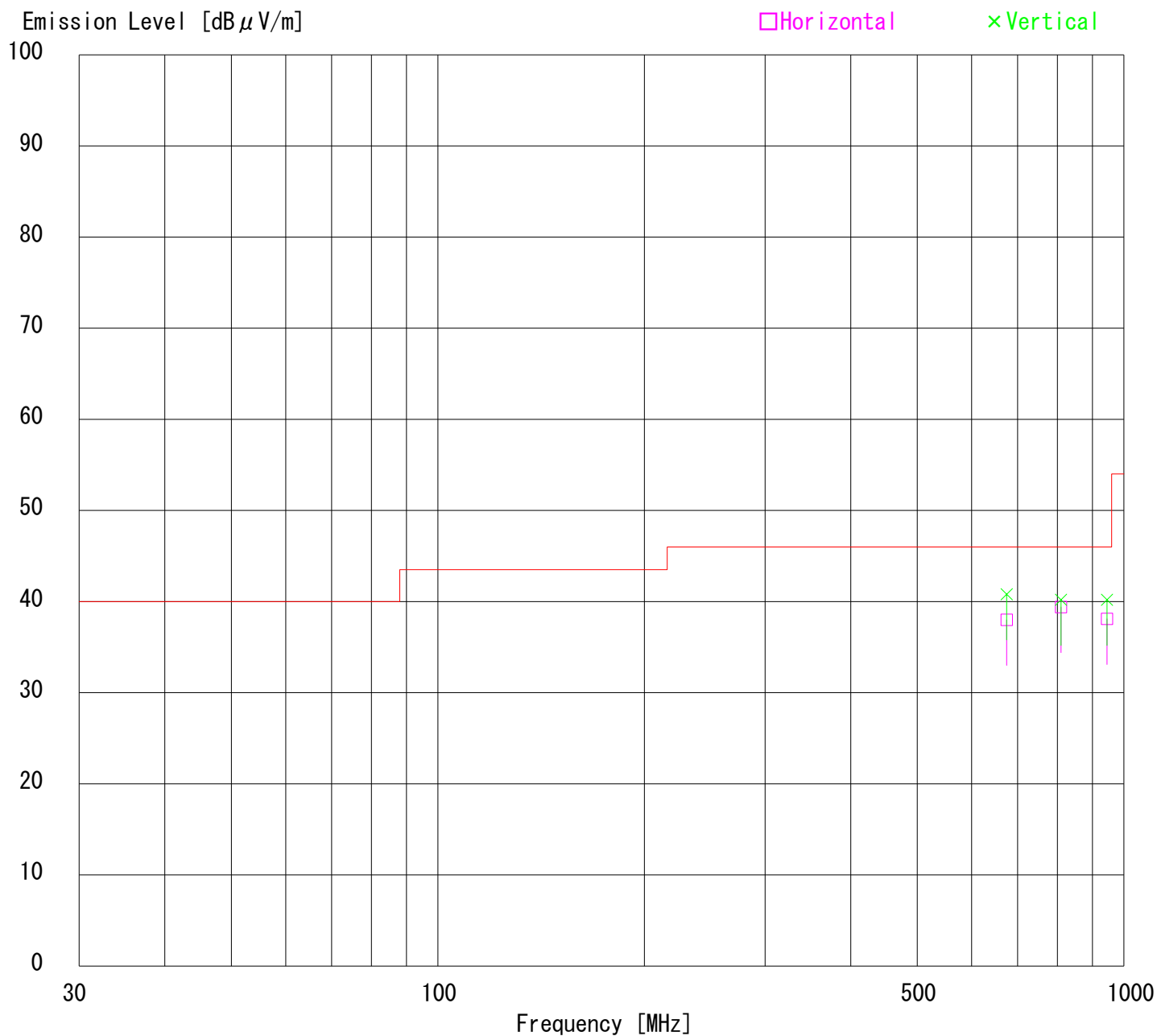
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4.	540.00	BB	27.7	26.9	19.8	27.9	5.5	5.9	31.0	30.2	46.0	15.0	15.8
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CALCULATION: READING + ANT. FACTOR + CABLE LOSS - AMP. GAIN + ATTEN.

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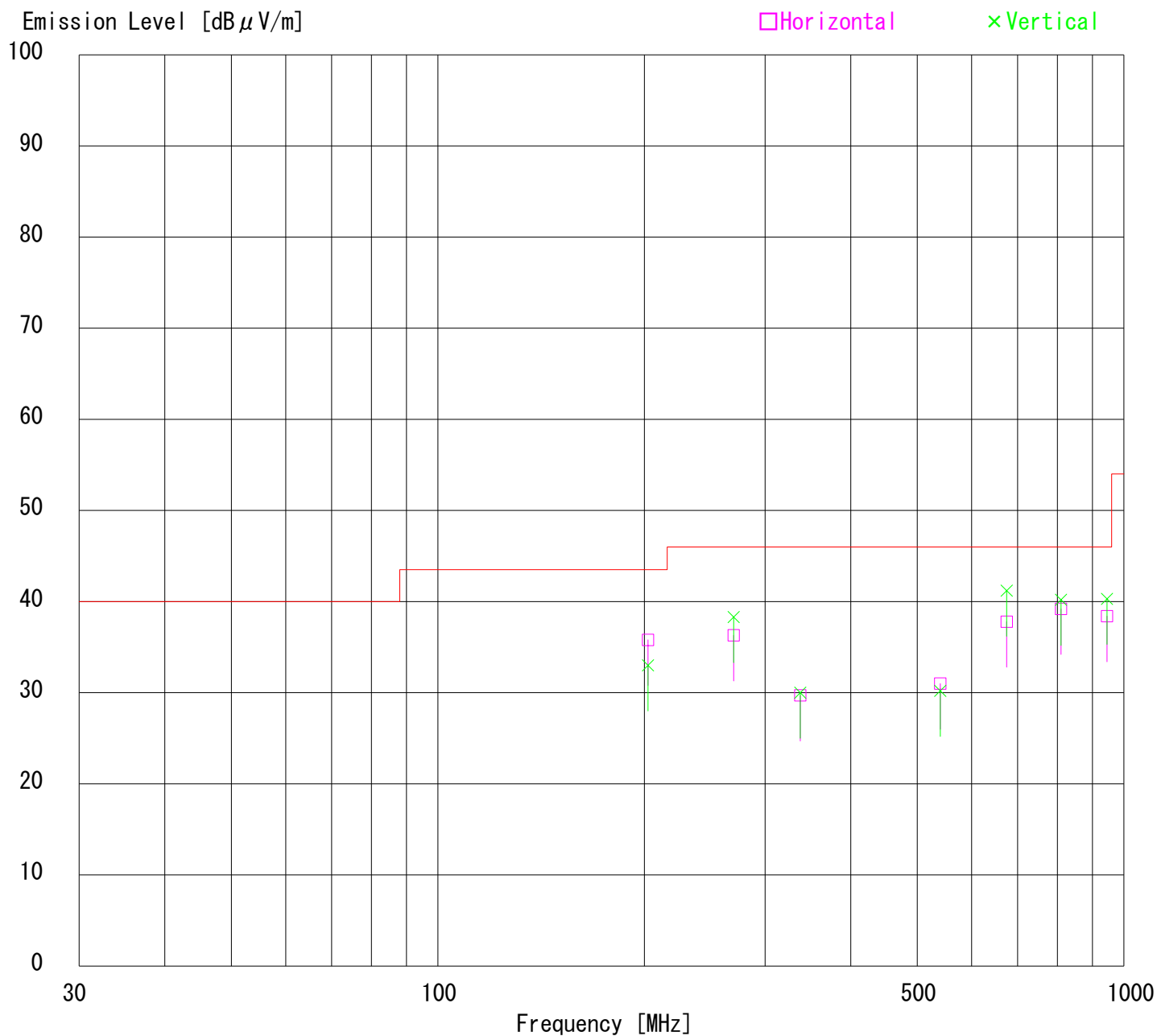
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UL Apex Co., Ltd.

YOKOWA No.1 OPEN TEST SITE

Report No. : 25KE0116-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Player with Video Cassette Recorder
Model No. : SD-V393SU2
Serial No. : -
Power : AC120V/60Hz
Mode : AV Input2 + Rec
Remarks : 5Vp-p
Date : 7/8/2005
Test Distance : 3 m
Temperature : 22 °C
Humidity : 46 %
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.	1215.02	BB	41.2	47.8	24.6	35.5	2.6	0.0	32.9	39.5	54.0	21.1	14.5
2.	1755.03	BB	40.4	42.2	27.0	34.9	3.1	0.0	35.6	37.4	54.0	18.4	16.6

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

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

DATA OF RADIATION TEST

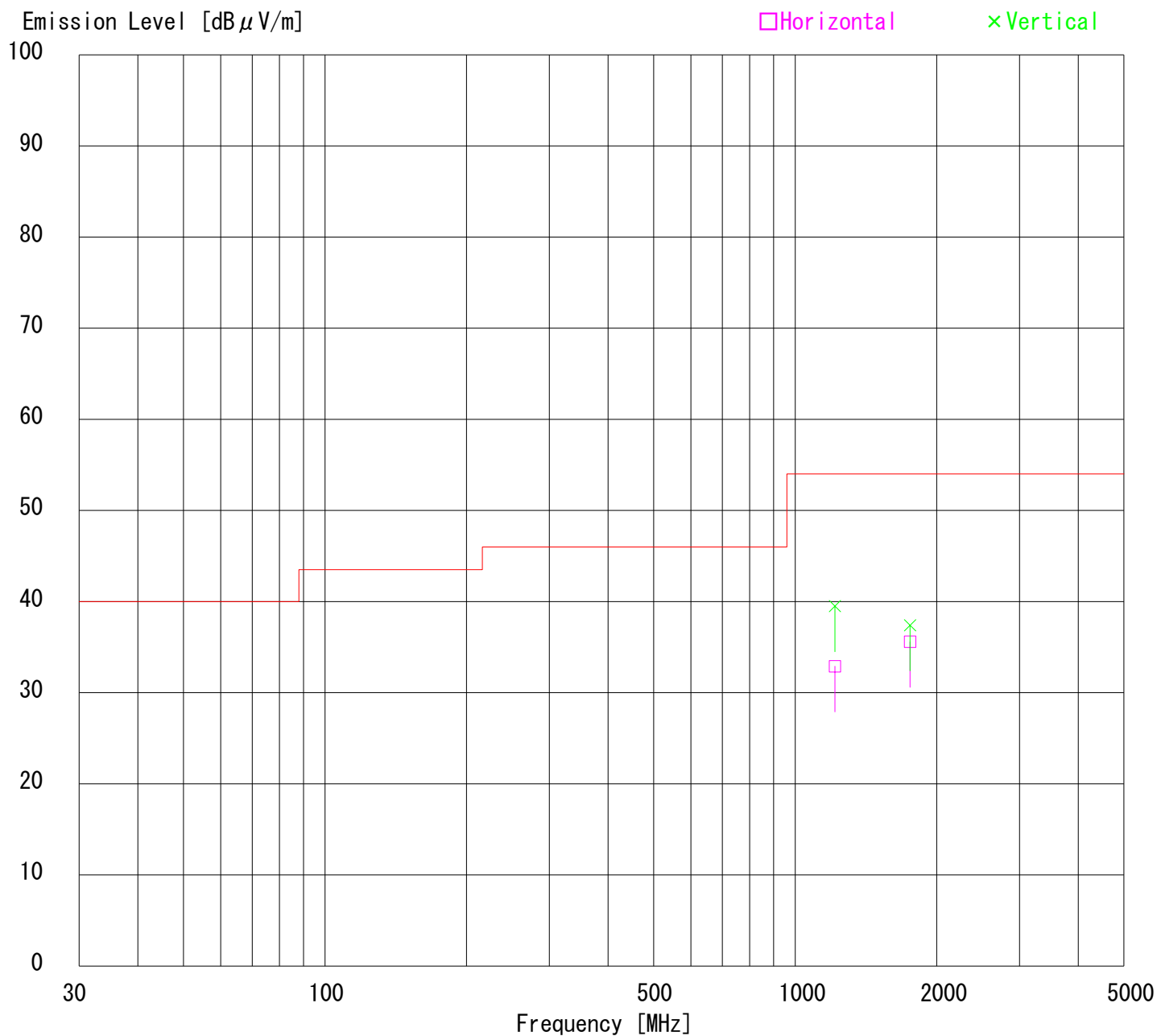
UL Apex Co., Ltd.

YOKOWA No.1 OPEN TEST SITE

Report No. : 25KE0116-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Player with Video Cassette Recorder
Model No. : SD-V393SU2
Serial No. : -
Power : AC120V/60Hz
Mode : AV Input2 + Rec
Remarks : 5Vp-p
Date : 7/8/2005
Test Distance : 3 m
Temperature : 22 °C
Humidity : 46 %
Regulation : FCC Part15B CLASS B (Average Limit / Upper1GHz)

Engineer : Tsubasa Takayama



DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.1 OPEN TEST SITE

Report No. : 25KE0116-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Player with Video Cassette Recorder
Model No. : SD-V393SU2
Serial No. : -
Power : AC120V/60Hz
Mode : AV Input2 + Rec
Remarks : 5Vp-p
Date : 7/8/2005
Test Distance : 3 m
Temperature : 22 °C
Humidity : 46 %
Regulation : FCC Part15B CLASS B(Peak 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.	1215.02	BB	51.9	57.5	24.6	35.5	2.6	0.0	43.6	49.2	74.0	30.4	24.8
2.	1755.03	BB	49.9	49.4	27.0	34.9	3.1	0.0	45.1	44.6	74.0	28.9	29.4

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

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

DATA OF RADIATION TEST

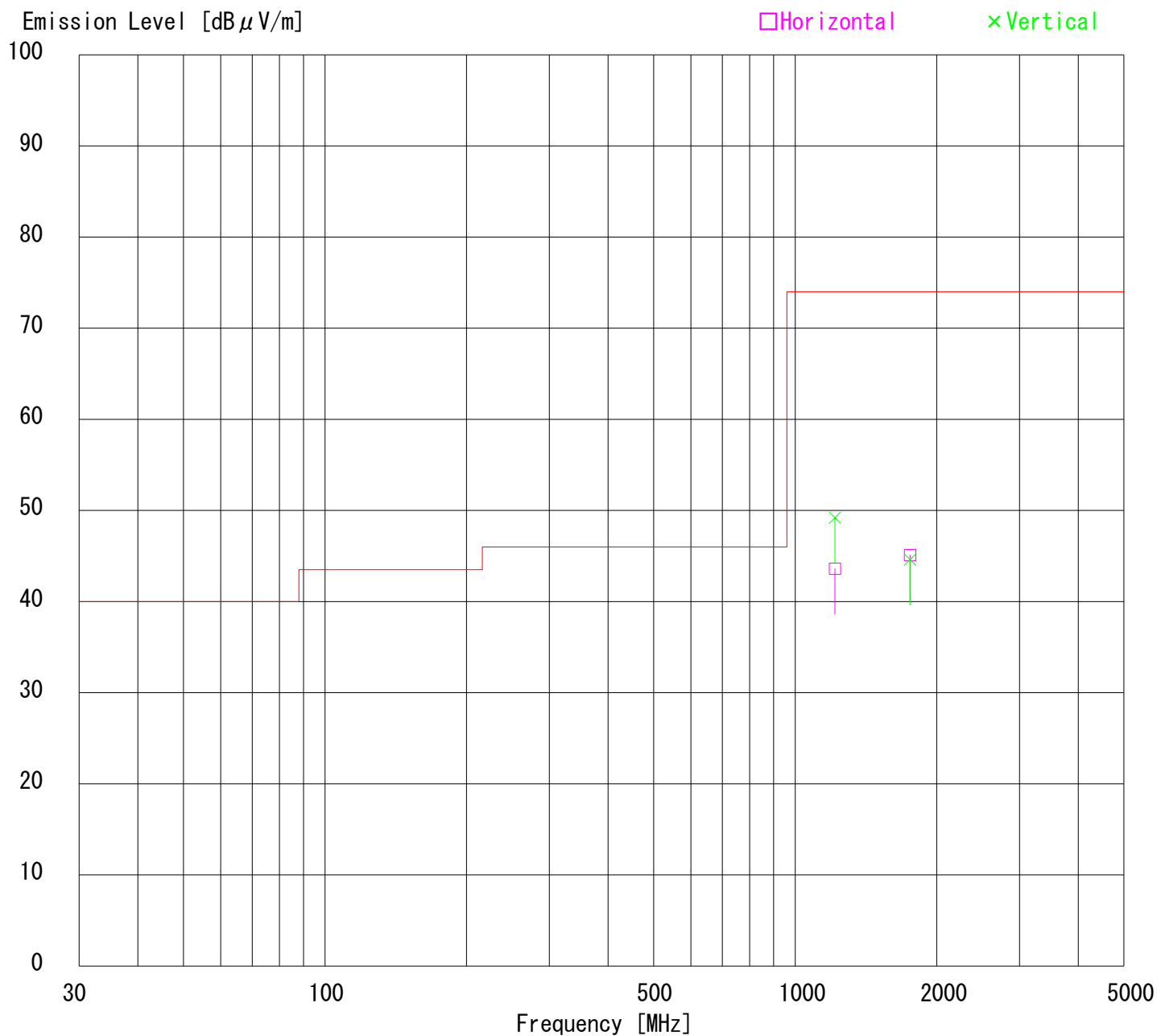
UL Apex Co., Ltd.

YOKOWA No.1 OPEN TEST SITE

Report No. : 25KE0116-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Player with Video Cassette Recorder
Model No. : SD-V393SU2
Serial No. : -
Power : AC120V/60Hz
Mode : AV Input2 + Rec
Remarks : 5Vp-p
Date : 7/8/2005
Test Distance : 3 m
Temperature : 22 °C
Humidity : 46 %
Regulation : FCC Part15B CLASS B(Peak Limit / Upper1GHz)

Engineer : Tsubasa Takayama



DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.3 OPEN TEST SITE

Report No. : 25KE0116-YW-1

Applicant : Orion Electric Co.,Ltd.
 Kind of Equipment : DVD Player with Video Cassette Recorder
 Model No. : SD-V393SU2
 Serial No. : -
 Power : AC120V/60Hz
 Mode : VCR Playback
 Remarks :
 Date : 6/29/2005
 Test Distance : 3 m
 Temperature : 27 °C
 Humidity : 52 %
 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		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	32.8	35.4	14.4	27.9	2.4	5.9	27.6	30.2	43.5	15.9	13.3	
2.	202.50	BB	27.3	32.0	17.1	27.8	3.1	5.9	25.6	30.3	43.5	17.9	13.2	
3.	216.01	BB	31.1	25.7	17.2	27.8	3.2	5.9	29.6	24.2	46.0	16.4	21.8	
4.	270.00	BB	38.7	36.2	18.5	27.8	3.7	6.0	39.1	36.6	46.0	6.9	9.4	
5.	337.51	BB	30.5	31.4	17.1	27.9	4.2	6.0	29.9	30.8	46.0	16.1	15.2	
6.	540.00	BB	25.2	28.1	19.8	27.9	5.5	5.9	28.5	31.4	46.0	17.5	14.6	
7.	675.04	BB	29.1	32.3	22.0	27.3	6.3	5.9	36.0	39.2	46.0	10.0	6.8	
8.	810.02	BB	27.5	33.6	23.3	27.1	7.0	5.9	36.6	42.7	46.0	9.4	3.3	
9.	945.03	BB	25.2	25.1	26.1	27.1	7.8	6.0	38.0	37.9	46.0	8.0	8.1	

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

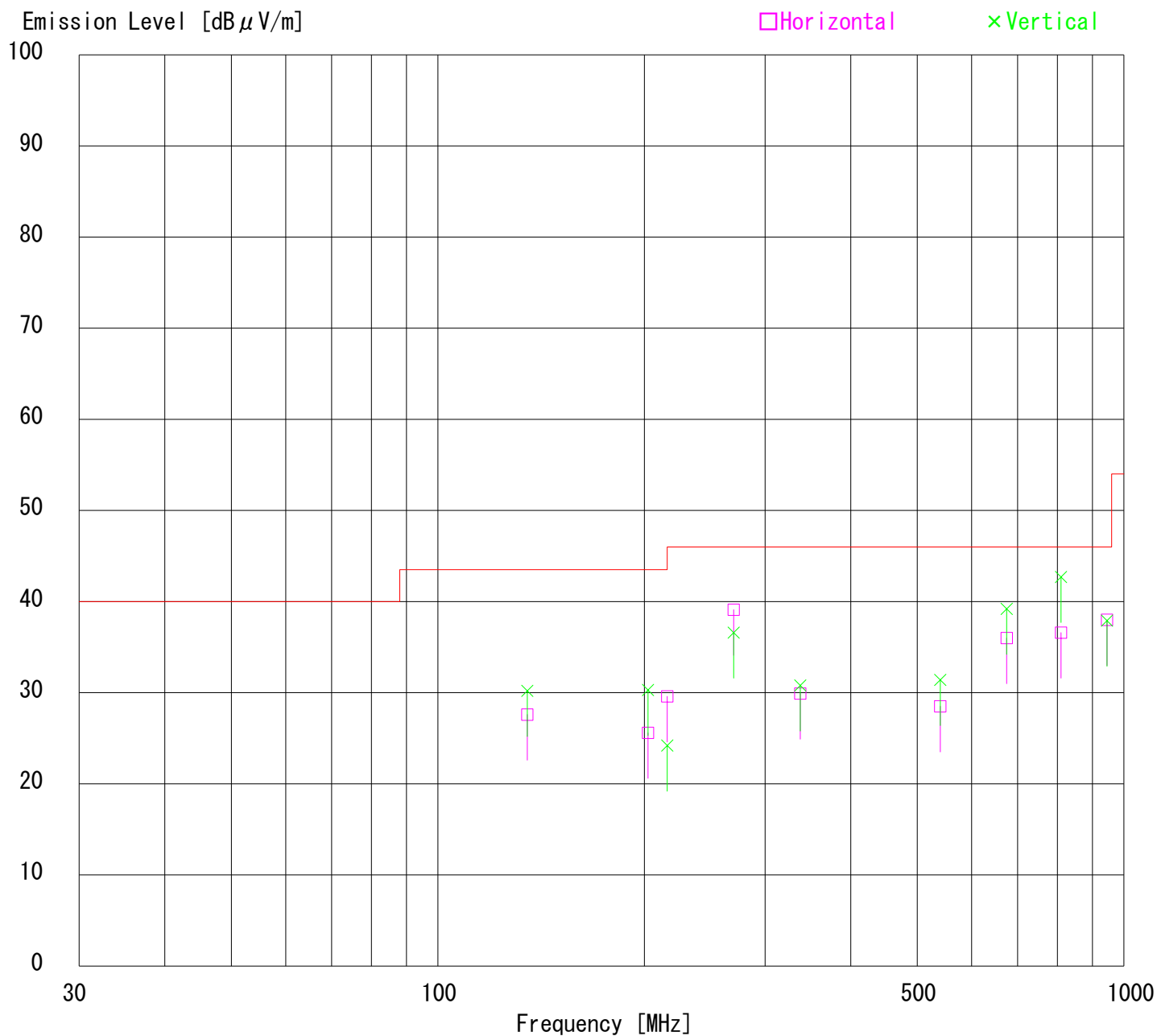
UL Apex Co., Ltd.

YOKOWA No.3 OPEN TEST SITE

Report No. : 25KE0116-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Player with Video Cassette Recorder
Model No. : SD-V393SU2
Serial No. : -
Power : AC120V/60Hz
Mode : VCR Playback
Remarks :
Date : 6/29/2005
Test Distance : 3 m
Temperature : 27 °C
Humidity : 52 %
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama



DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.1 OPEN TEST SITE

Report No. : 25KE0116-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Player with Video Cassette Recorder
Model No. : SD-V393SU2
Serial No. : -
Power : AC120V/60Hz
Mode : VCR Playback
Remarks : -
Date : 7/8/2005
Test Distance : 3 m
Temperature : 22 °C
Humidity : 46 %
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]			HOR [dB]	VER [dB]
1.	1215.01	BB	41.4	50.0	24.6	35.5	2.6	0.0	33.1	41.7	54.0	20.9	12.3	
2.	1755.02	BB	37.4	42.8	27.0	34.9	3.1	0.0	32.6	38.0	54.0	21.4	16.0	

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

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

DATA OF RADIATION TEST

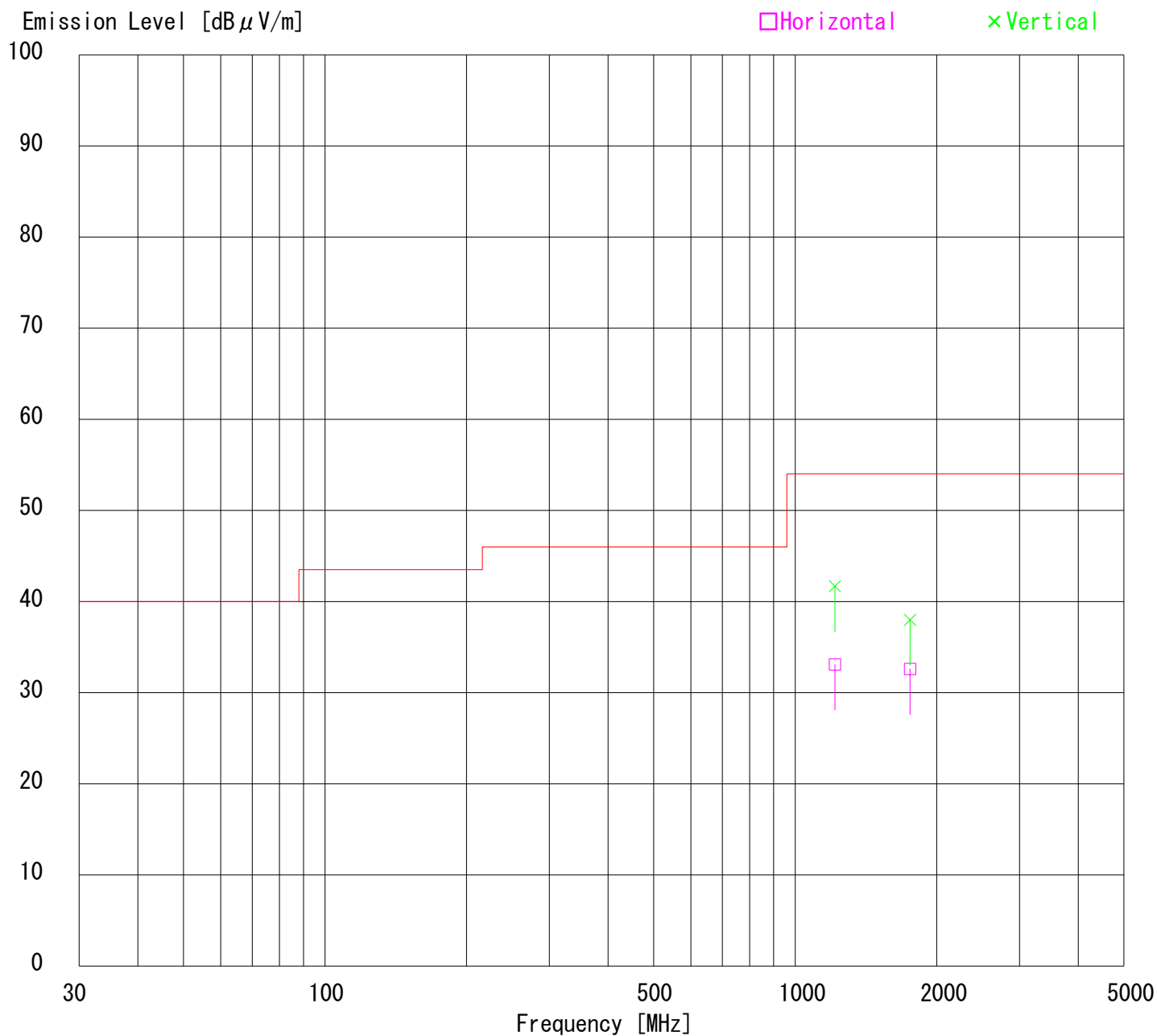
UL Apex Co., Ltd.

YOKOWA No.1 OPEN TEST SITE

Report No. : 25KE0116-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Player with Video Cassette Recorder
Model No. : SD-V393SU2
Serial No. : -
Power : AC120V/60Hz
Mode : VCR Playback
Remarks : -
Date : 7/8/2005
Test Distance : 3 m
Temperature : 22 °C
Humidity : 46 %
Regulation : FCC Part15B CLASS B (Average Limit / Upper1GHz)

Engineer : Tsubasa Takayama



DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.1 OPEN TEST SITE

Report No. : 25KE0116-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Player with Video Cassette Recorder
Model No. : SD-V393SU2
Serial No. : -
Power : AC120V/60Hz
Mode : VCR Playback
Remarks : -
Date : 7/8/2005
Test Distance : 3 m
Temperature : 22 °C
Humidity : 46 %
Regulation : FCC Part15B CLASS B(Peak 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.	1215.01	BB	52.9	59.9	24.6	35.5	2.6	0.0	44.6	51.6	74.0	29.4	22.4
2.	1755.02	BB	48.1	49.9	27.0	34.9	3.1	0.0	43.3	45.1	74.0	30.7	28.9

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

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

DATA OF RADIATION TEST

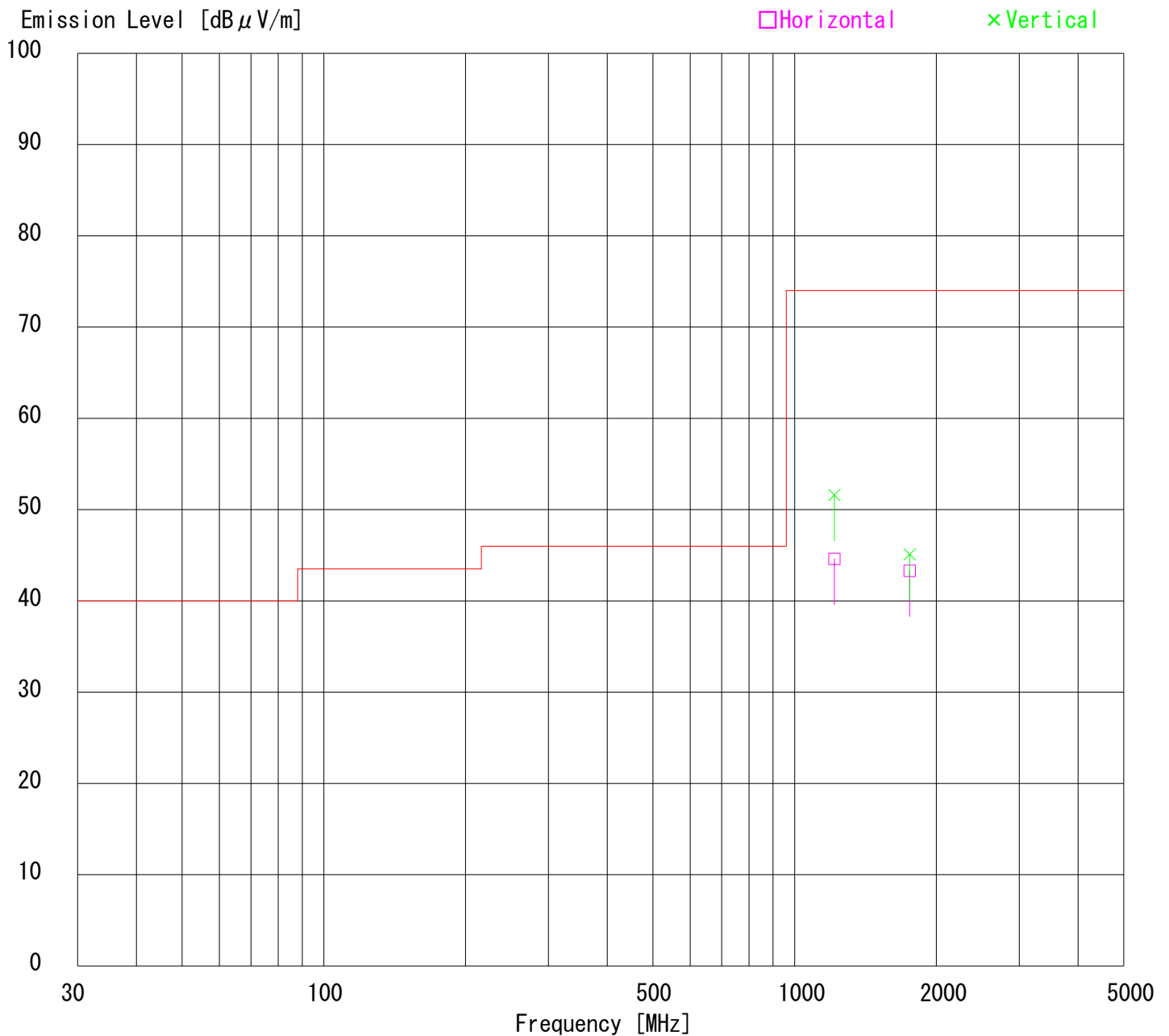
UL Apex Co., Ltd.

YOKOWA No.1 OPEN TEST SITE

Report No. : 25KE0116-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Player with Video Cassette Recorder
Model No. : SD-V393SU2
Serial No. : -
Power : AC120V/60Hz
Mode : VCR Playback
Remarks : -
Date : 7/8/2005
Test Distance : 3 m
Temperature : 22 °C
Humidity : 46 %
Regulation : FCC Part15B CLASS B (Peak Limit / Upper1GHz)

Engineer : Tsubasa Takayama



DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.3 OPEN TEST SITE

Report No. : 25KE0116-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Player with Video Cassette Recorder
Model No. : SD-V393SU2
Serial No. : -
Power : AC120V/60Hz
Mode : DVD Play
Remarks :
Date : 6/29/2005
Test Distance : 3 m
Temperature : 27 °C
Humidity : 52 %
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	33.2	36.9	14.4	27.9	2.4	5.9	28.0	31.7	43.5	15.5	11.8
2.	164.01	BB	22.5	26.3	15.4	27.9	2.7	5.9	18.6	22.4	43.5	24.9	21.1
3.	202.51	BB	27.2	32.0	17.1	27.8	3.1	5.9	25.5	30.3	43.5	18.0	13.2
4.	216.01	BB	31.6	28.2	17.2	27.8	3.2	5.9	30.1	26.7	46.0	15.9	19.3
5.	270.00	BB	38.5	38.9	18.5	27.8	3.7	6.0	38.9	39.3	46.0	7.1	6.7
6.	337.53	BB	30.5	31.5	17.1	27.9	4.2	6.0	29.9	30.9	46.0	16.1	15.1
7.	540.00	BB	27.1	29.2	19.8	27.9	5.5	5.9	30.4	32.5	46.0	15.6	13.5
8.	675.02	BB	30.8	32.9	22.0	27.3	6.3	5.9	37.7	39.8	46.0	8.3	6.2
9.	810.02	BB	32.4	33.8	23.3	27.1	7.0	5.9	41.5	42.9	46.0	4.5	3.1
10.	945.03	BB	25.8	30.5	26.1	27.1	7.8	6.0	38.6	43.3	46.0	7.4	2.7

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

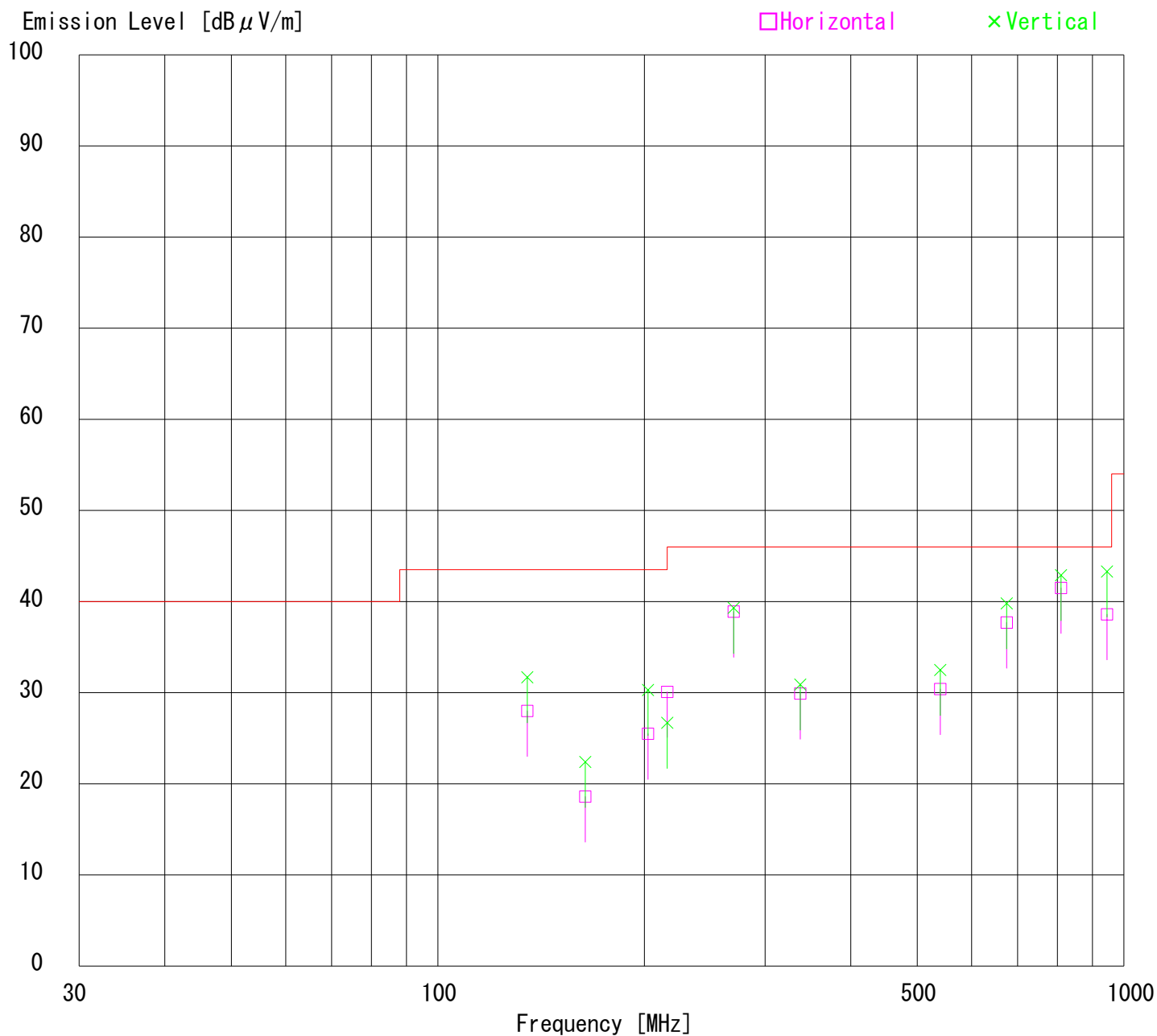
UL Apex Co., Ltd.

YOKOWA No.3 OPEN TEST SITE

Report No. : 25KE0116-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Player with Video Cassette Recorder
Model No. : SD-V393SU2
Serial No. : -
Power : AC120V/60Hz
Mode : DVD Play
Remarks :
Date : 6/29/2005
Test Distance : 3 m
Temperature : 27 °C
Humidity : 52 %
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama



DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.1 OPEN TEST SITE

Report No. : 25KE0116-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Player with Video Cassette Recorder
Model No. : SD-V393SU2
Serial No. : -
Power : AC120V/60Hz
Mode : DVD Play
Remarks : -
Date : 7/8/2005
Test Distance : 3 m
Temperature : 22 °C
Humidity : 46 %
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.	1215.02	BB	41.6	52.2	24.6	35.5	2.6	0.0	33.3	43.9	54.0	20.7	10.1
2.	1755.03	BB	46.3	43.9	27.0	34.9	3.1	0.0	41.5	39.1	54.0	12.5	14.9

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

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

DATA OF RADIATION TEST

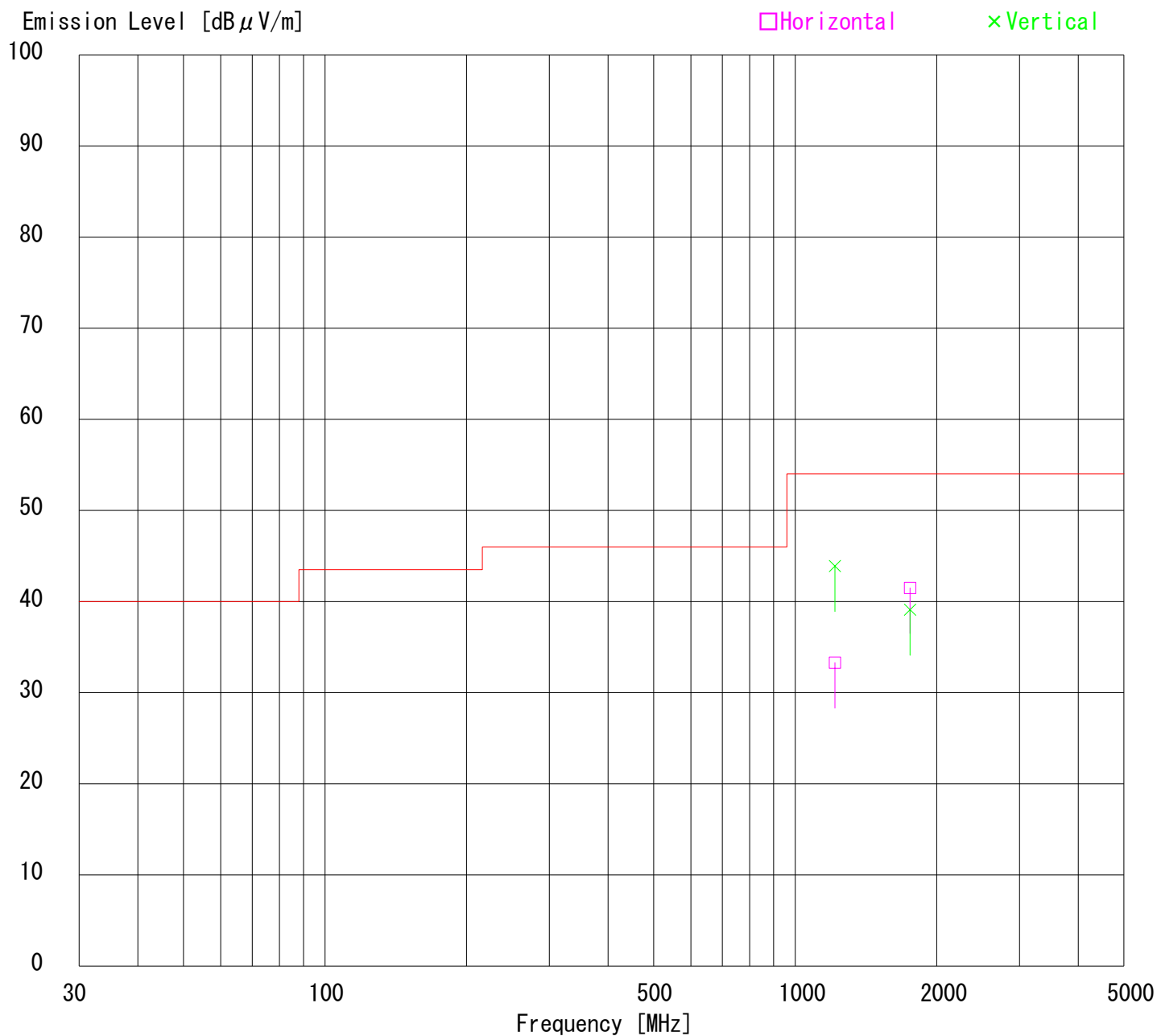
UL Apex Co., Ltd.

YOKOWA No.1 OPEN TEST SITE

Report No. : 25KE0116-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Player with Video Cassette Recorder
Model No. : SD-V393SU2
Serial No. : -
Power : AC120V/60Hz
Mode : DVD Play
Remarks : -
Date : 7/8/2005
Test Distance : 3 m
Temperature : 22 °C
Humidity : 46 %
Regulation : FCC Part15B CLASS B (Average Limit / Upper1GHz)

Engineer : Tsubasa Takayama



DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.1 OPEN TEST SITE

Report No. : 25KE0116-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Player with Video Cassette Recorder
Model No. : SD-V393SU2
Serial No. : -
Power : AC120V/60Hz
Mode : DVD Play
Remarks : -
Date : 7/8/2005
Test Distance : 3 m
Temperature : 22 °C
Humidity : 46 %
Regulation : FCC Part15B CLASS B(Peak 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.	1215.02	BB	53.4	62.7	24.6	35.5	2.6	0.0	45.1	54.4	74.0	28.9	19.6
2.	1755.03	BB	54.1	54.3	27.0	34.9	3.1	0.0	49.3	49.5	74.0	24.7	24.5

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

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

DATA OF RADIATION TEST

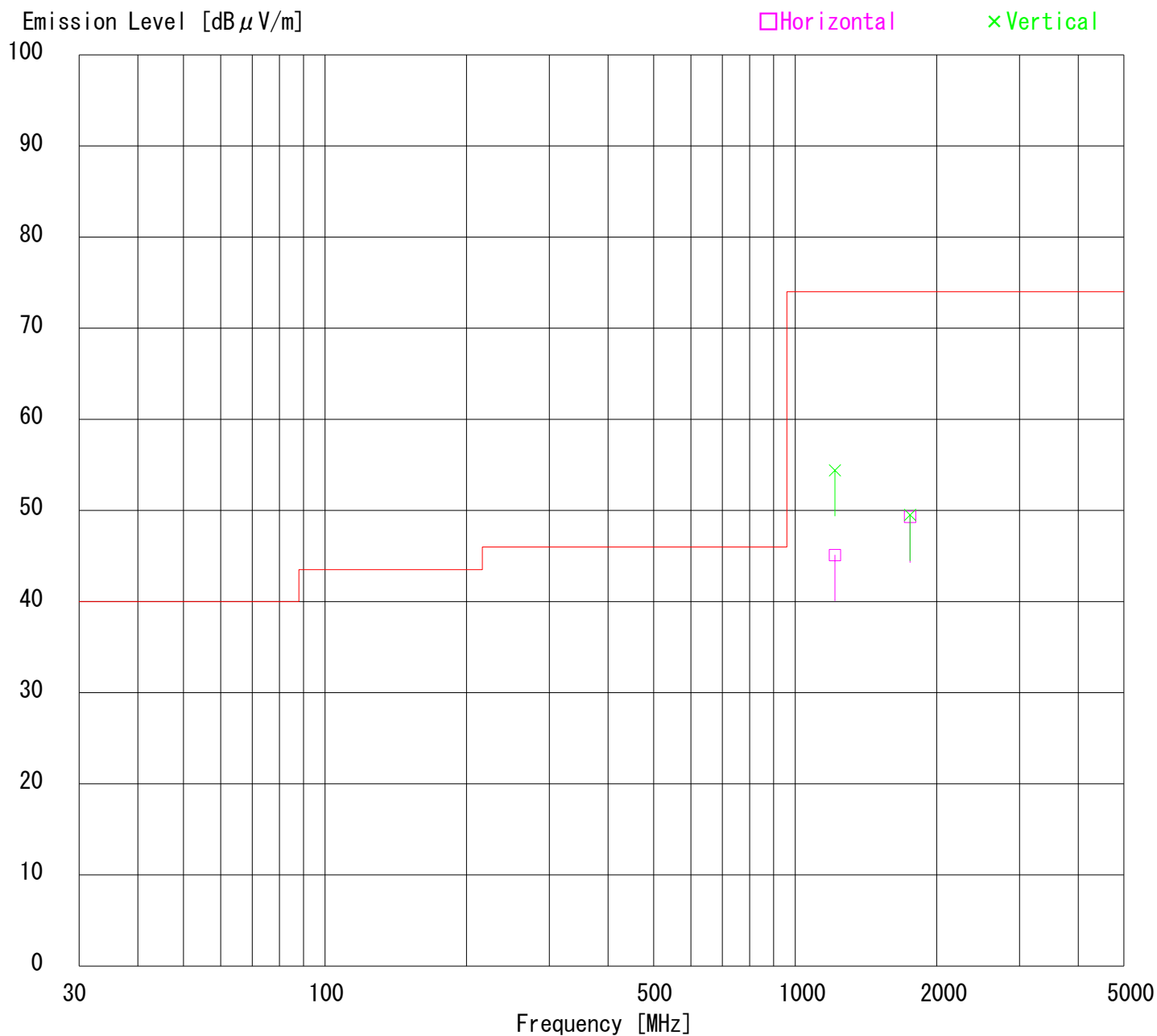
UL Apex Co., Ltd.

YOKOWA No.1 OPEN TEST SITE

Report No. : 25KE0116-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Player with Video Cassette Recorder
Model No. : SD-V393SU2
Serial No. : -
Power : AC120V/60Hz
Mode : DVD Play
Remarks : -
Date : 7/8/2005
Test Distance : 3 m
Temperature : 22 °C
Humidity : 46 %
Regulation : FCC Part15B CLASS B(Peak Limit / Upper1GHz)

Engineer : Tsubasa Takayama



DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.3 OPEN TEST SITE

Report No. : 25KE0116-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Player with Video Cassette Recorder
Model No. : SD-V393SU2
Serial No. : -
Power : AC120V/60Hz
Mode : DVD Play
Remarks : Test Channel #3
Date : 6/30/2005
Test Distance : 3 m
Temperature : 27 °C
Humidity : 56 %
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	25.2	24.9	8.2	28.1	1.6	5.9	12.8	12.5	40.0	27.2	27.5
2.	65.75	BB	31.9	26.6	7.3	28.1	1.7	5.9	18.7	13.4	40.0	21.3	26.6
3.	122.50	BB	22.3	24.2	13.7	27.9	2.3	5.9	16.3	18.2	43.5	27.2	25.3
4.	245.00	BB	23.9	21.7	17.3	27.8	3.5	5.9	22.8	20.6	46.0	23.2	25.4

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

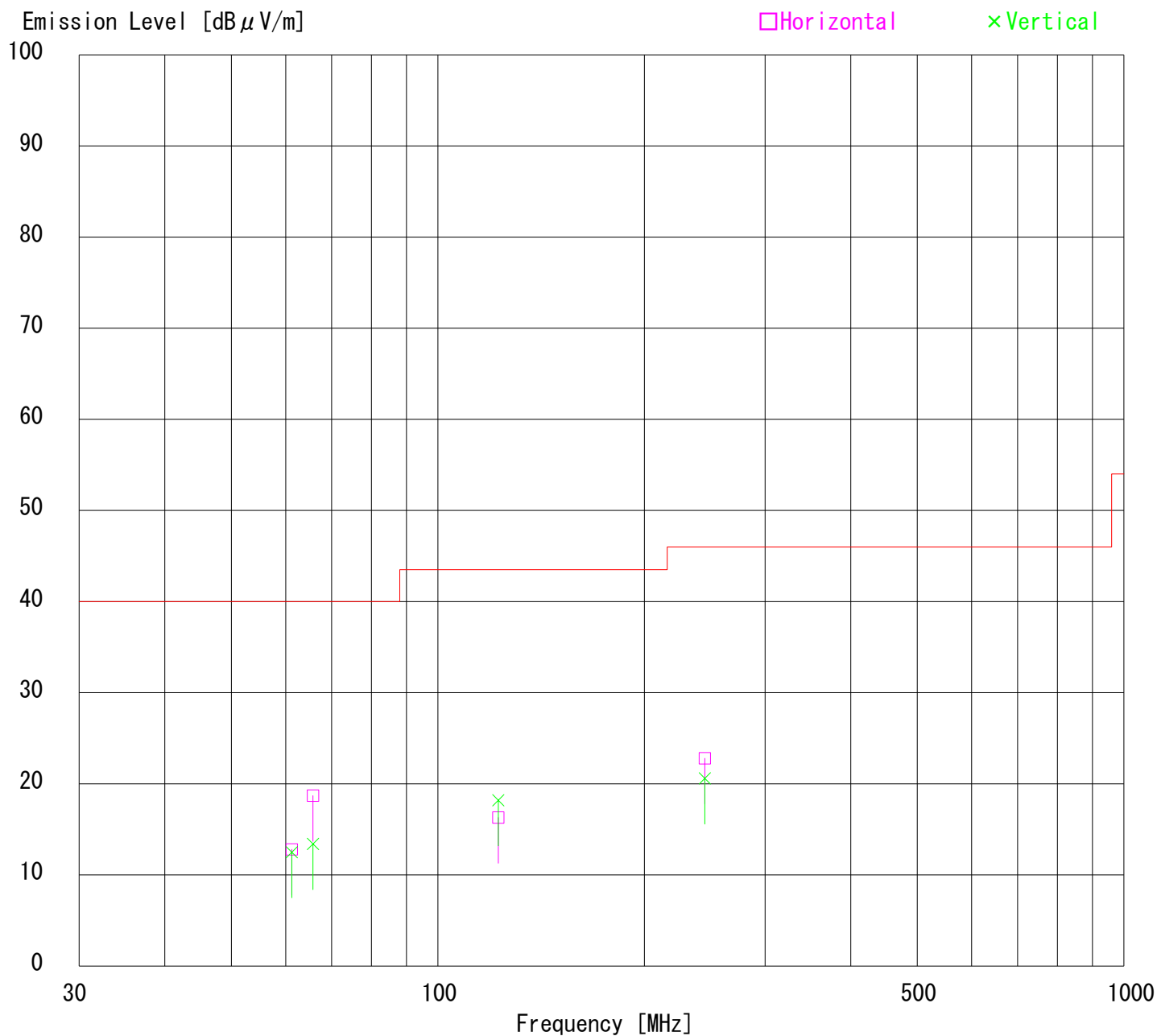
UL Apex Co., Ltd.

YOKOWA No.3 OPEN TEST SITE

Report No. : 25KE0116-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Player with Video Cassette Recorder
Model No. : SD-V393SU2
Serial No. : -
Power : AC120V/60Hz
Mode : DVD Play
Remarks : Test Channel #3
Date : 6/30/2005
Test Distance : 3 m
Temperature : 27 °C
Humidity : 56 %
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama



DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.3 OPEN TEST SITE

Report No. : 25KE0116-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Player with Video Cassette Recorder
Model No. : SD-V393SU2
Serial No. : -
Power : AC120V/60Hz
Mode : DVD Play
Remarks : Test Channel #4
Date : 6/30/2005
Test Distance : 3 m
Temperature : 27 °C
Humidity : 56 %
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	29.5	26.7	7.0	28.1	1.7	5.9	16.0	13.2	40.0	24.0	26.8
2.	71.25	BB	28.1	26.9	6.5	28.1	1.8	5.9	14.2	13.0	40.0	25.8	27.0
3.	134.50	BB	22.5	22.6	14.4	27.9	2.4	5.9	17.3	17.4	43.5	26.2	26.1
4.	201.75	BB	23.5	22.0	17.1	27.8	3.1	5.9	21.8	20.3	43.5	21.7	23.2

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

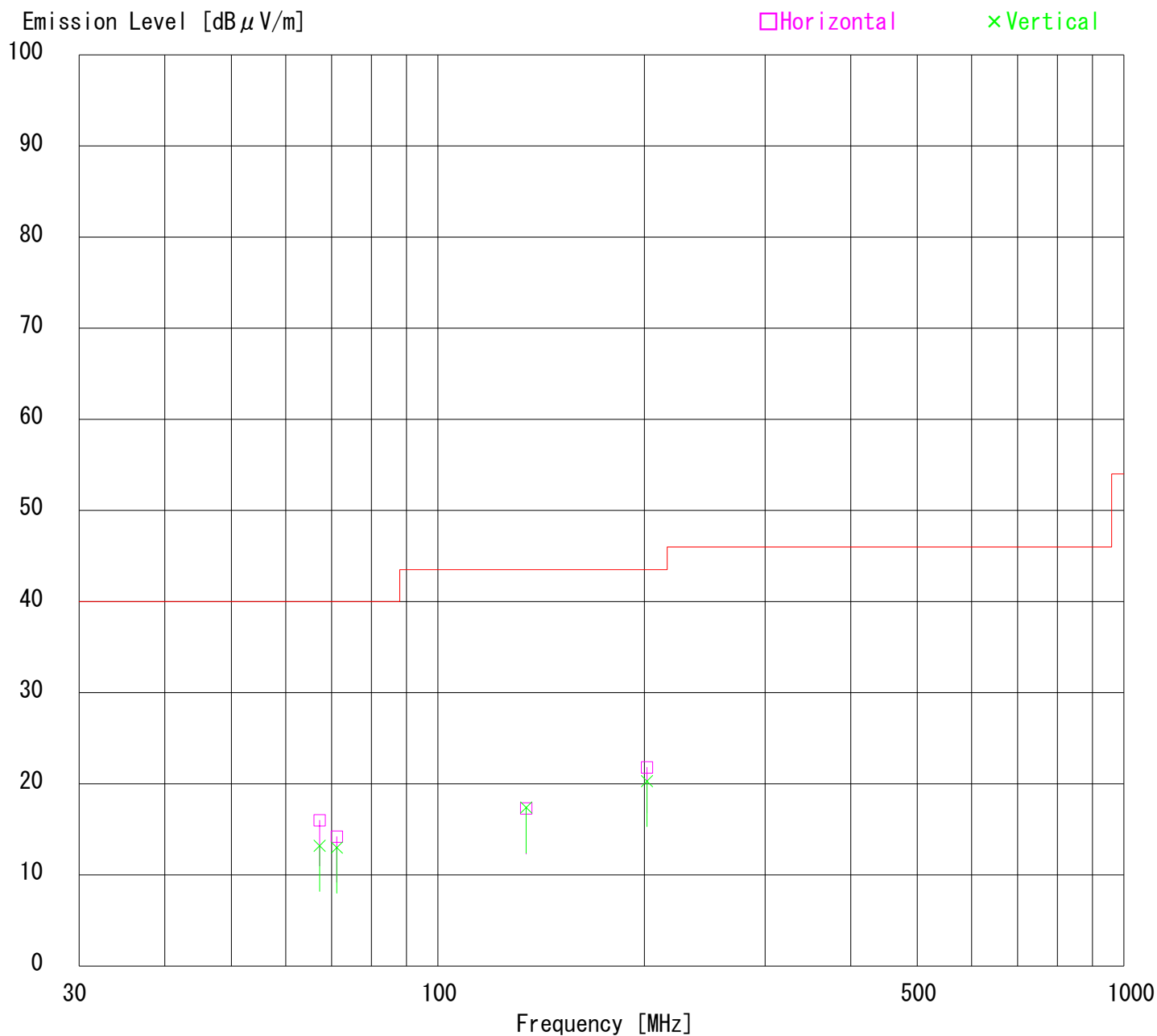
UL Apex Co., Ltd.

YOKOWA No.3 OPEN TEST SITE

Report No. : 25KE0116-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Player with Video Cassette Recorder
Model No. : SD-V393SU2
Serial No. : -
Power : AC120V/60Hz
Mode : DVD Play
Remarks : Test Channel #4
Date : 6/30/2005
Test Distance : 3 m
Temperature : 27 °C
Humidity : 56 %
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama



DATA OF ANTENNA TERMINAL TEST

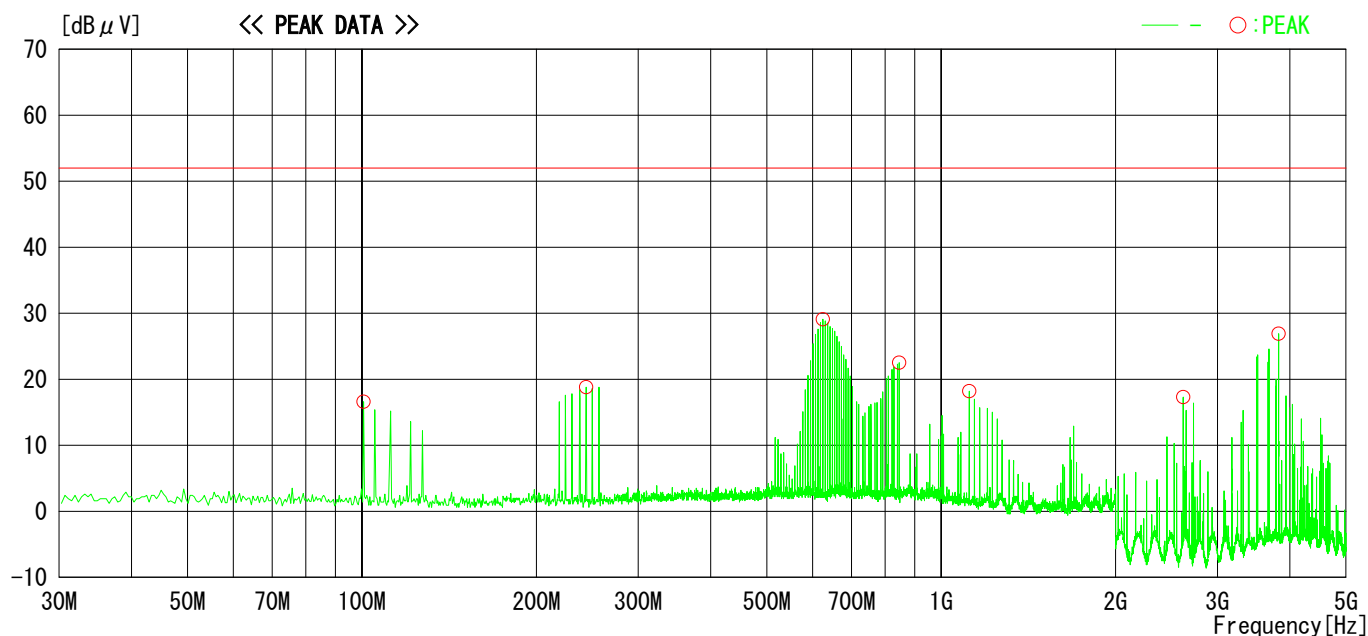
YOKOWA NO.7 S/R

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL NO. : SD-V393SU2
OPERATION MODE : TV Tuning Mode

Report No. : 25KE0116-YW-1
DATE : June 29, 2005
REGULATION : FCC Part15 SubpartB
TEST ENGINEER : Tomoyuki Yamashita

TEMP./HUMID. : 24deg. C/31%

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	100.66400	37.2	-20.6	16.6	52.0	----	35.4	—
2	243.95050	39.2	-20.4	18.8	52.0	----	33.2	—
3	624.85330	49.5	-20.4	29.1	52.0	----	22.9	—
4	846.57740	43.2	-20.7	22.5	52.0	----	29.5	—
5	1117.85100	48.5	-30.3	18.2	52.0	----	33.8	—
6	2618.53000	53.0	-35.7	17.3	52.0	----	34.7	—
7	3824.22500	60.8	-33.9	26.9	52.0	----	25.1	—

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

DATA OF ANTENNA TERMINAL TEST

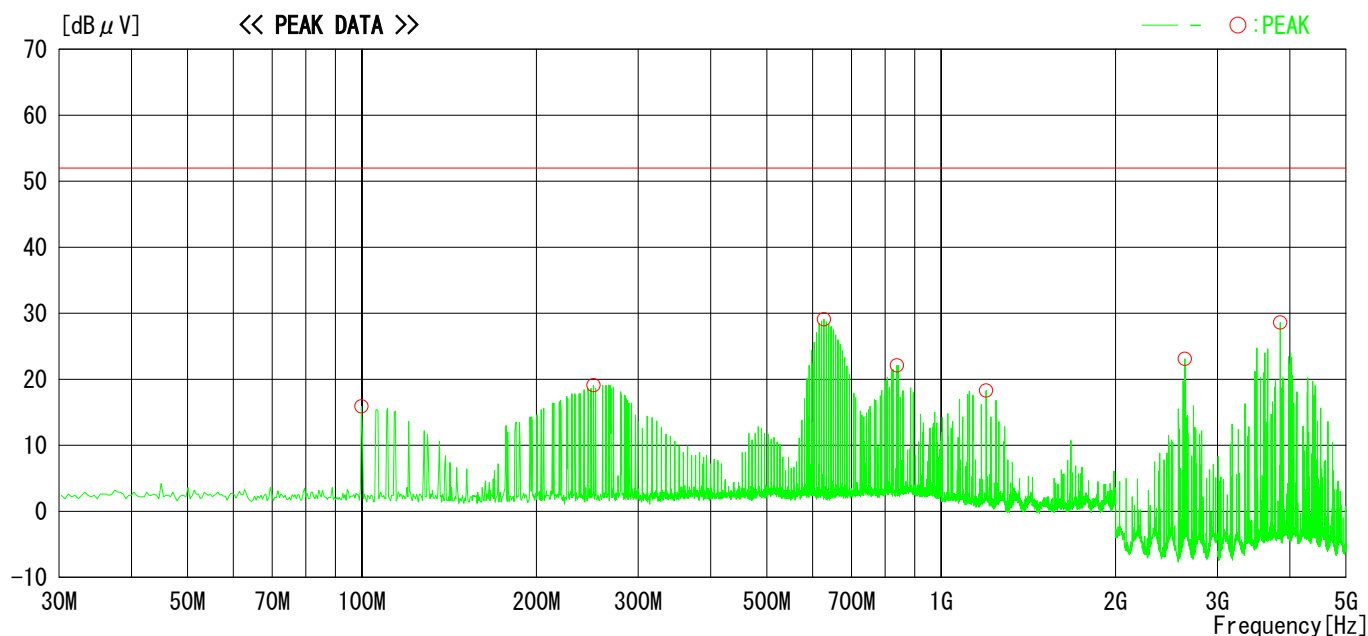
YOKOWA NO.7 S/R

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL NO. : SD-V393SU2
OPERATION MODE : CATV Tuning Mode

Report No. : 25KE0116-YW-1
DATE : June 29, 2005
REGULATION : FCC Part15 SubpartB
TEST ENGINEER : Tomoyuki Yamashita

TEMP./HUMID. : 24deg. C/31%

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	99.82113	36.5	-20.6	15.9	52.0	----	36.1	—
2	251.11490	39.5	-20.4	19.1	52.0	----	32.9	—
3	627.71040	49.5	-20.4	29.1	52.0	----	22.9	—
4	838.86280	42.8	-20.7	22.1	52.0	----	29.9	—
5	1195.70200	48.5	-30.2	18.3	52.0	----	33.7	—
6	2634.24300	58.8	-35.7	23.1	52.0	----	28.9	—
7	3848.50900	62.5	-33.9	28.6	52.0	----	23.4	—

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

RF Output Level

UL Apex Co.,Ltd.
Yokowa EMC Laboratory

Company : Orion Electric Co., Ltd.
Equipment : DVD/VCR
Model Number : SD-V393SU2
Power : 120V/60Hz
Description : TV Reception + Rec
Remarks : -

Report Number : 25KE0116-YW-1
Regulation : FCC15B SubpartB
Date : July 01, 2005
Temp / Humid : 24deg.C / 39%
Engineer : Tsubasa Takayama

TV Reception + Rec (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	89.8	25.7	64.1	69.5	5.4
4	67.25	87.3	25.7	61.6	69.5	7.9
Audio Signal						
3	56.75	76.1	25.7	50.4	56.5	6.1
	65.75	74.5	25.7	48.8	56.5	7.7
4	62.75	75.2	25.7	49.5	56.5	7.0
	71.75	71.7	25.7	46.0	56.5	10.5

TV Reception + Rec (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	88.4	25.7	62.7	69.5	6.8
4	67.25	87.9	25.7	62.2	69.5	7.3
Audio Signal						
3	56.75	76.0	25.7	50.3	56.5	6.3
	65.75	74.6	25.7	48.9	56.5	7.6
4	62.75	74.9	25.7	49.2	56.5	7.3
	71.75	73.8	25.7	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-V393SU2
Power : 120V/60Hz
Description : AV Input 1 + Rec
Remarks : -

Report Number : 25KE0116-YW-1
Regulation : FCC15B SubpartB
Date : July 01, 2005
Temp / Humid : 24deg.C / 39%
Engineer : Tsubasa Takayama

AV Input1 + Rec (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	88.0	25.7	62.3	69.5	7.3
4	67.25	87.2	25.7	61.5	69.5	8.0
Audio Signal						
3	56.75	75.6	25.7	49.9	56.5	6.6
	65.75	74.5	25.7	48.8	56.5	7.7
4	62.75	75.4	25.7	49.7	56.5	6.8
	71.75	73.8	25.7	48.1	56.5	8.4

AV Input1 + Rec (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	89.1	25.7	63.4	69.5	6.1
4	67.25	87.5	25.7	61.8	69.5	7.8
Audio Signal						
3	56.75	75.9	25.7	50.2	56.5	6.3
	65.75	74.4	25.7	48.7	56.5	7.8
4	62.75	75.3	25.7	49.6	56.5	6.9
	71.75	74.4	25.7	48.7	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-V393SU2
Power : 120V/60Hz
Description : AV Input 2 + Rec
Remarks : -

Report Number : 25KE0116-YW-1
Regulation : FCC15B SubpartB
Date : July 01, 2005
Temp / Humid : 24deg.C / 39%
Engineer : Tsubasa Takayama

AV Input2 + Rec (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	87.8	25.7	62.1	69.5	7.4
4	67.25	87.2	25.7	61.5	69.5	8.0
Audio Signal						
3	56.75	75.8	25.7	50.1	56.5	6.4
	65.75	74.4	25.7	48.7	56.5	7.8
4	62.75	75.4	25.7	49.7	56.5	6.8
	71.75	73.8	25.7	48.1	56.5	8.4

AV Input2 + Rec (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	88.0	25.7	62.3	69.5	7.2
4	67.25	87.6	25.7	61.9	69.5	7.6
Audio Signal						
3	56.75	75.8	25.7	50.1	56.5	6.4
	65.75	74.6	25.7	48.9	56.5	7.6
4	62.75	75.3	25.7	49.6	56.5	6.9
	71.75	73.9	25.7	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-V393SU2
Power : 120V/60Hz
Description : VCR PLAYBACK
Remarks : -

Report Number : 25KE0116-YW-1
Regulation : FCC15B SubpartB
Date : July 01, 2005
Temp / Humid : 24deg.C / 39%
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	87.9	25.7	62.2	69.5	7.3
4	67.25	88.7	25.7	63.0	69.5	6.5
Audio Signal						
3	56.75	75.8	25.7	50.1	56.5	6.4
	65.75	75.0	25.7	49.3	56.5	7.2
4	62.75	75.0	25.7	49.3	56.5	7.2
	71.75	73.8	25.7	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-V393SU2
Power : 120V/60Hz
Description : DVD PLAY
Remarks : -

Report Number : 25KE0116-YW-1
Regulation : FCC15B SubpartB
Date : July 01, 2005
Temp / Humid : 24deg.C / 39%
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	89.6	25.7	63.9	69.5	5.6
4	67.25	88.5	25.7	62.8	69.5	6.8
Audio Signal						
3	56.75	75.7	25.7	50.0	56.5	6.5
	65.75	74.6	25.7	48.9	56.5	7.6
4	62.75	75.3	25.7	49.6	56.5	6.9
	71.75	74.4	25.7	48.7	56.5	7.9

DATA OF RF SPURIOUS TEST

UL Apex Co.,Ltd.

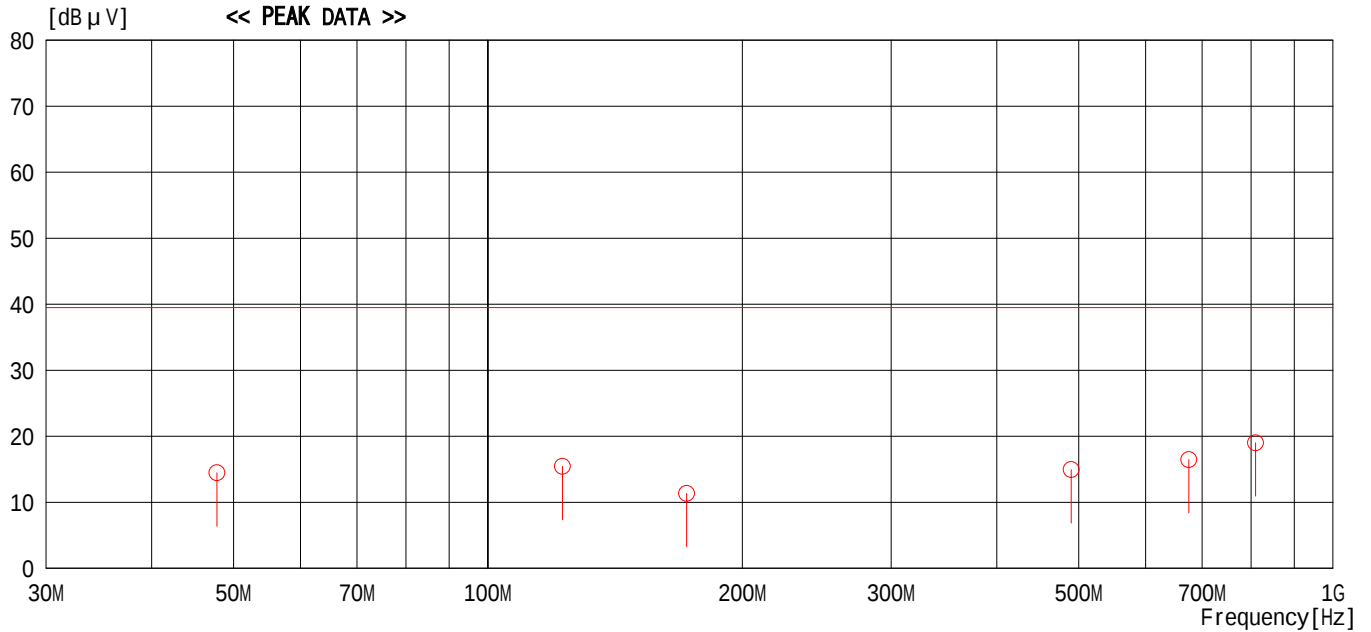
COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : DV-V393SU2
TEMP./HUMID. : 23 /41%

REPORT NO : 25KE0116-YW-1
DATE : July 01 ,2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

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

LIMIT : FCC 15B RF OUT SPURIOUS

— - ○:PEAK



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	47.7800	40.6	----	-26.1	14.5	----	39.5	----	25.0	----	-
2	122.5200	41.1	----	-25.7	15.4	----	39.5	----	24.1	----	-
3	171.8300	36.8	----	-25.4	11.4	----	39.5	----	28.1	----	-
4	490.0400	39.8	----	-24.9	14.9	----	39.5	----	24.6	----	-
5	674.9700	42.2	----	-25.7	16.5	----	39.5	----	23.0	----	-
6	810.0000	44.4	----	-25.4	19.0	----	39.5	----	20.5	----	-

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

DATA OF RF SPURIOUS TEST

UL Apex Co.,Ltd.

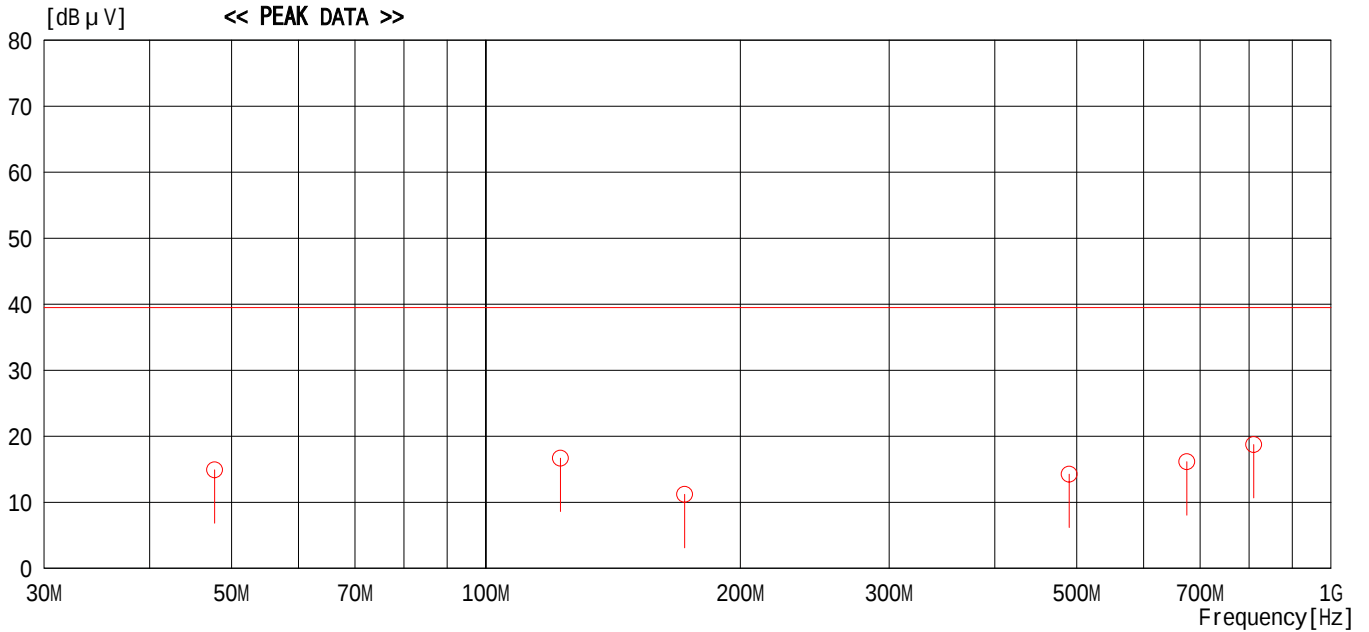
COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : DV-V393SU2
TEMP./HUMID. : 23 /41%

REPORT NO : 25KE0116-YW-1
DATE : July 01 ,2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

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

LIMIT : FCC 15B RF OUT SPURIOUS

— - ○:PEAK



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	41.0	----	-26.1	14.9	----	39.5	----	24.6	----	-
2	122.5000	42.4	----	-25.7	16.7	----	39.5	----	22.8	----	-
3	171.8200	36.6	----	-25.4	11.2	----	39.5	----	28.3	----	-
4	490.0200	39.2	----	-24.9	14.3	----	39.5	----	25.2	----	-
5	675.0200	41.8	----	-25.7	16.1	----	39.5	----	23.4	----	-
6	810.0300	44.1	----	-25.4	18.7	----	39.5	----	20.8	----	-

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

DATA OF RF SPURIOUS TEST

UL Apex Co.,Ltd.

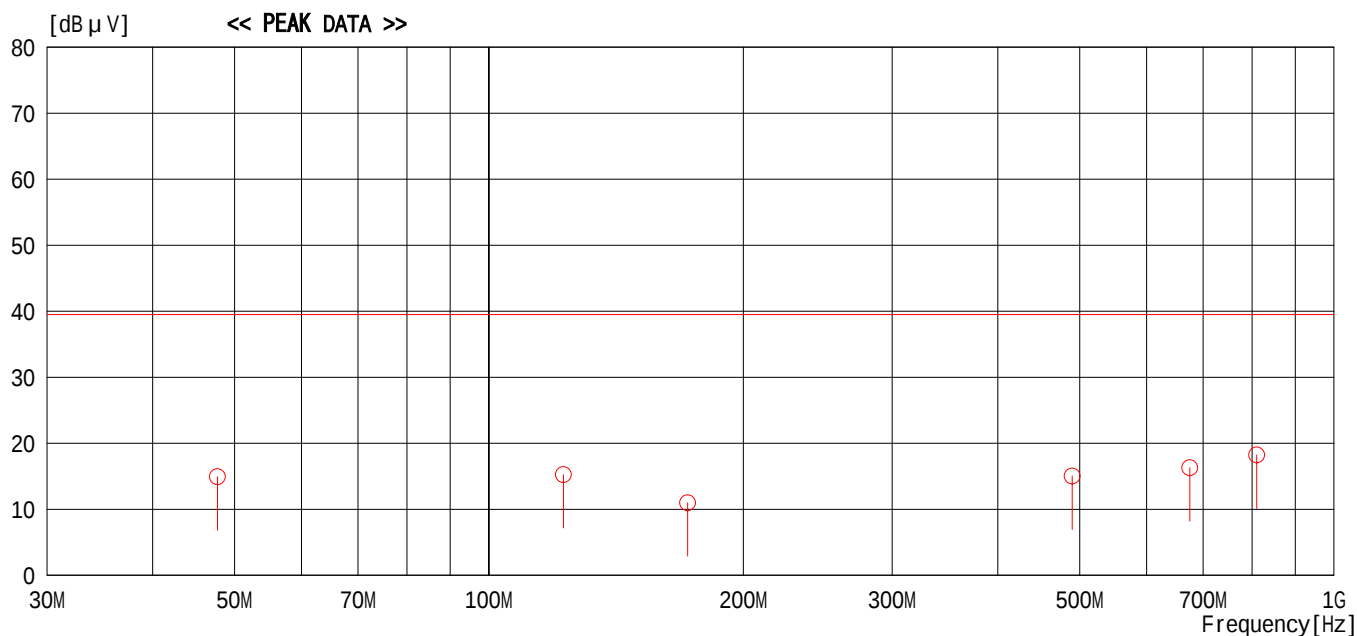
COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : DV-V393SU2
TEMP./HUMID. : 23 /41%

REPORT NO : 25KE0116-YW-1
DATE : July 01 ,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

— - ○:PEAK



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	47.7300	41.0	----	-26.1	14.9	----	39.5	----	24.6	----	-
2	122.5100	41.0	----	-25.7	15.3	----	39.5	----	24.2	----	-
3	171.7900	36.4	----	-25.4	11.0	----	39.5	----	28.5	----	-
4	490.0300	39.9	----	-24.9	15.0	----	39.5	----	24.5	----	-
5	675.0100	42.0	----	-25.7	16.3	----	39.5	----	23.2	----	-
6	810.0100	43.6	----	-25.4	18.2	----	39.5	----	21.3	----	-

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

DATA OF RF SPURIOUS TEST

UL Apex Co.,Ltd.

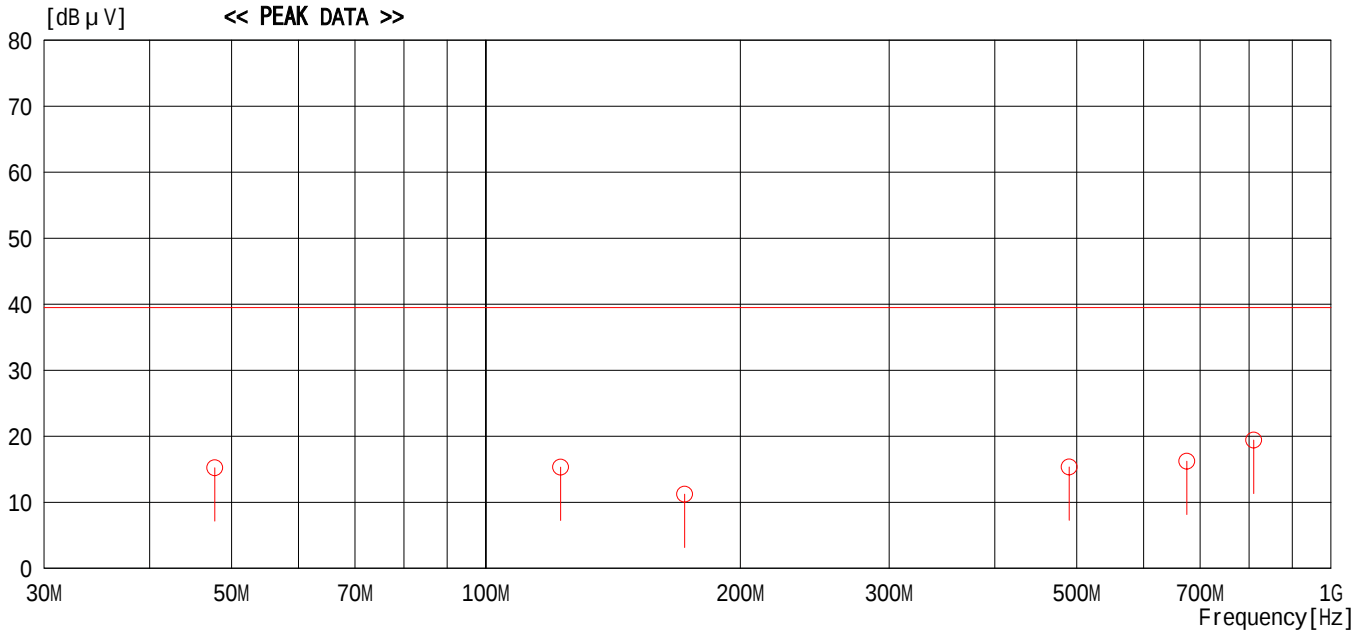
COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : DV-V393SU2
TEMP./HUMID. : 23 /41%

REPORT NO : 25KE0116-YW-1
DATE : July 01 ,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

— - ○:PEAK



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	47.7600	41.3	----	-26.1	15.2	----	39.5	----	24.3	----	-
2	122.5300	41.0	----	-25.7	15.3	----	39.5	----	24.2	----	-
3	171.8100	36.6	----	-25.4	11.2	----	39.5	----	28.3	----	-
4	490.0000	40.3	----	-24.9	15.4	----	39.5	----	24.2	----	-
5	675.0100	41.9	----	-25.7	16.2	----	39.5	----	23.3	----	-
6	810.0200	44.8	----	-25.4	19.4	----	39.5	----	20.1	----	-

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

DATA OF RF SPURIOUS TEST

UL Apex Co.,Ltd.

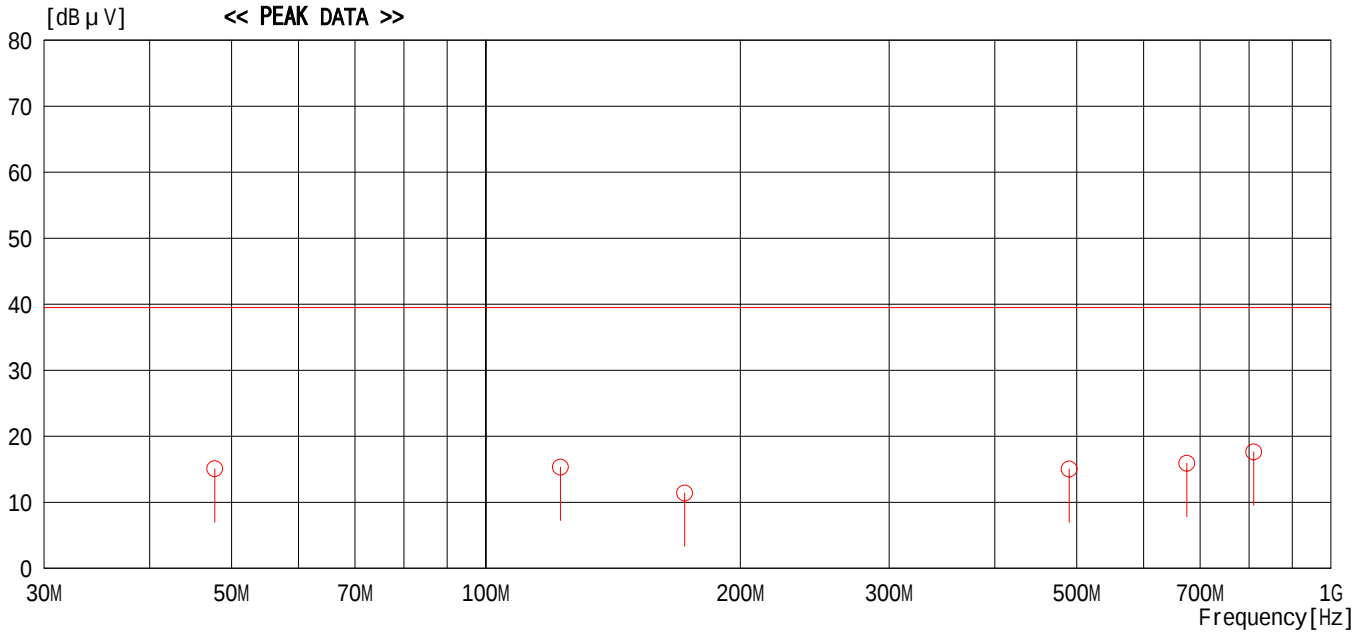
COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : DV-V393SU2
TEMP./HUMID. : 23 /41%

REPORT NO : 25KE0116-YW-1
DATE : July 01 ,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

— - ○:PEAK



NO	FREQ [MHz]	READING		C.F	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	47.7600	41.2	----	-26.1	15.1	----	39.5	----	24.4	----	-
2	122.5000	41.0	----	-25.7	15.3	----	39.5	----	24.2	----	-
3	171.8500	36.8	----	-25.4	11.4	----	39.5	----	28.1	----	-
4	490.0000	39.9	----	-24.9	15.0	----	39.5	----	24.5	----	-
5	675.0000	41.6	----	-25.7	15.9	----	39.5	----	23.6	----	-
6	810.0400	43.0	----	-25.4	17.6	----	39.5	----	21.9	----	-

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

DATA OF RF SPURIOUS TEST

UL Apex Co.,Ltd.

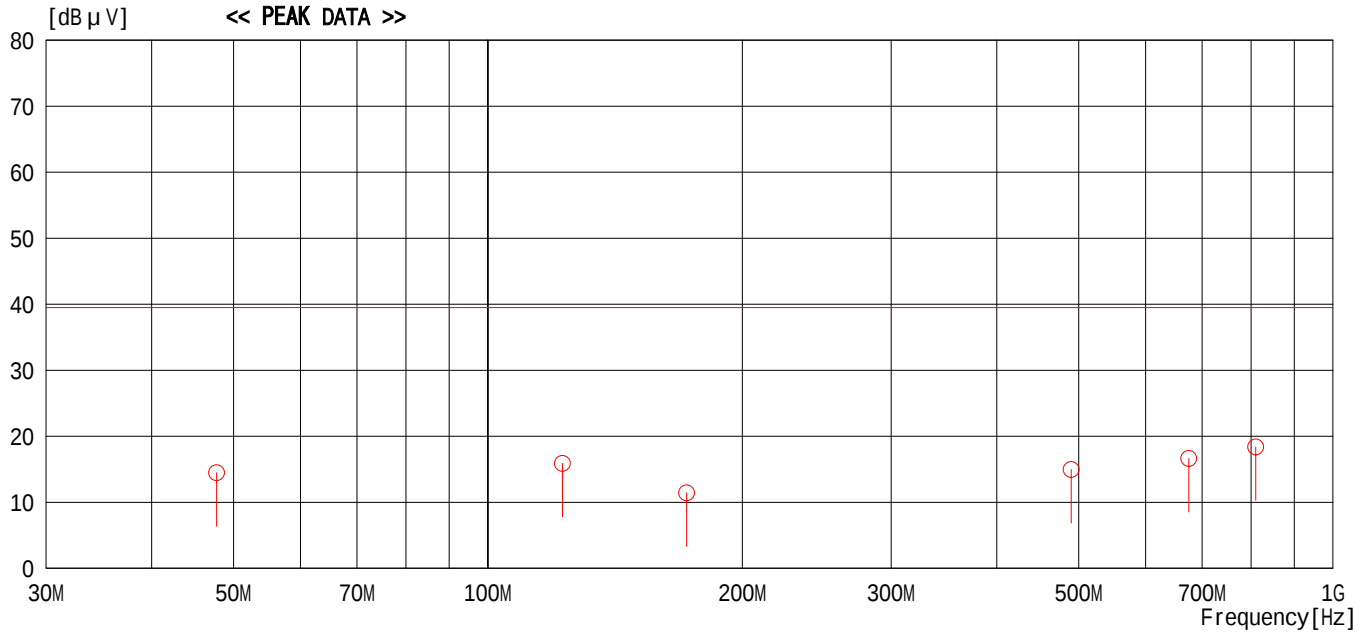
COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : DV-V393SU2
TEMP./HUMID. : 23 /41%

REPORT NO : 25KE0116-YW-1
DATE : July 01 ,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

— - ○:PEAK



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	40.6	----	-26.1	14.5	----	39.5	----	25.0	----	-
2	122.5000	41.6	----	-25.7	15.9	----	39.5	----	23.6	----	-
3	171.8200	36.8	----	-25.4	11.4	----	39.5	----	28.1	----	-
4	490.0100	39.8	----	-24.9	14.9	----	39.5	----	24.6	----	-
5	675.0300	42.3	----	-25.7	16.6	----	39.5	----	22.9	----	-
6	810.0200	43.8	----	-25.4	18.4	----	39.5	----	21.1	----	-

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

DATA OF RF SPURIOUS TEST

UL Apex Co.,Ltd.

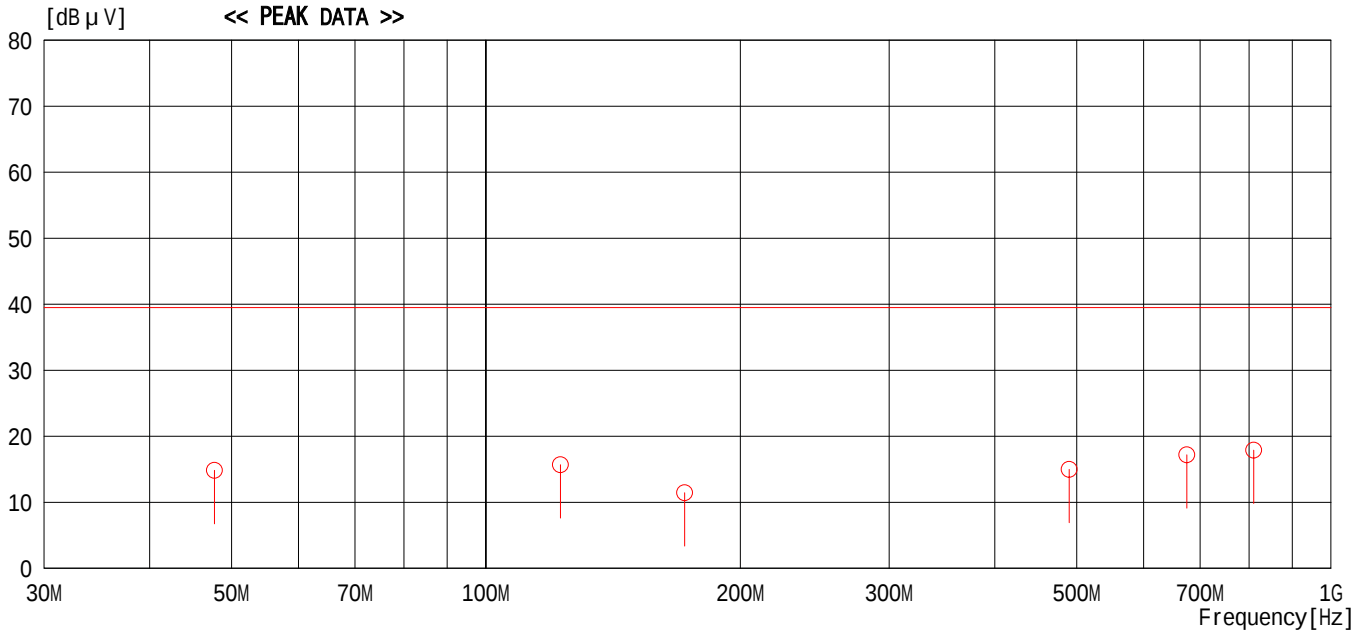
COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : DV-V393SU2
TEMP./HUMID. : 23 /41%

REPORT NO : 25KE0116-YW-1
DATE : July 01 ,2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

OPERATION MODE : VCR PLAYBACK (3ch)

LIMIT : FCC 15B RF OUT SPURIOUS

— - ○:PEAK



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	47.7300	40.9	----	-26.1	14.8	----	39.5	----	24.7	----	-
2	122.4900	41.4	----	-25.7	15.7	----	39.5	----	23.8	----	-
3	171.8200	36.9	----	-25.4	11.5	----	39.5	----	28.1	----	-
4	490.0300	39.9	----	-24.9	15.0	----	39.5	----	24.5	----	-
5	675.0400	42.9	----	-25.7	17.2	----	39.5	----	22.3	----	-
6	810.0100	43.3	----	-25.4	17.9	----	39.5	----	21.6	----	-

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

DATA OF RF SPURIOUS TEST

UL Apex Co.,Ltd.

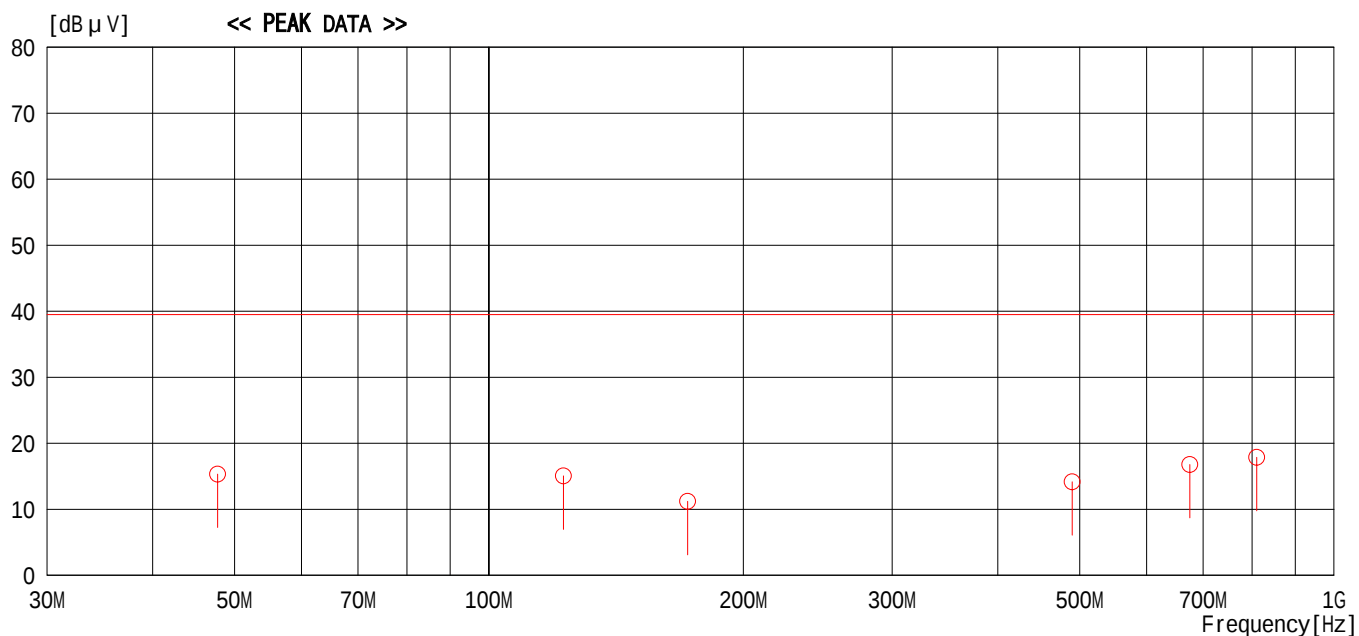
COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : DV-V393SU2
TEMP./HUMID. : 23 /41%

REPORT NO : 25KE0116-YW-1
DATE : July 01 ,2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

OPERATION MODE : DVD PLAY (3ch)

LIMIT : FCC 15B RF OUT SPURIOUS

— - ○:PEAK



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

DATA OF RF SPURIOUS TEST

UL Apex Co.,Ltd.

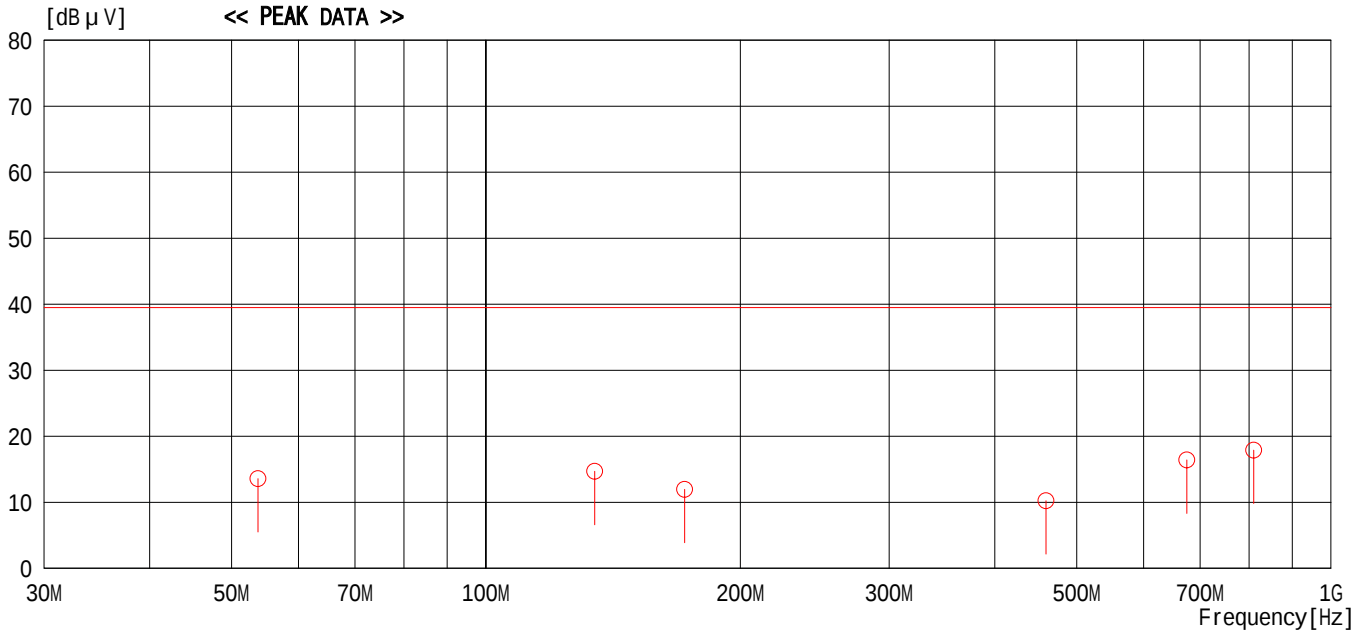
COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : DV-V393SU2
TEMP./HUMID. : 23 /41%

REPORT NO : 25KE0116-YW-1
DATE : July 01 ,2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

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

LIMIT : FCC 15B RF OUT SPURIOUS

— - ○:PEAK



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

DATA OF RF SPURIOUS TEST

UL Apex Co.,Ltd.

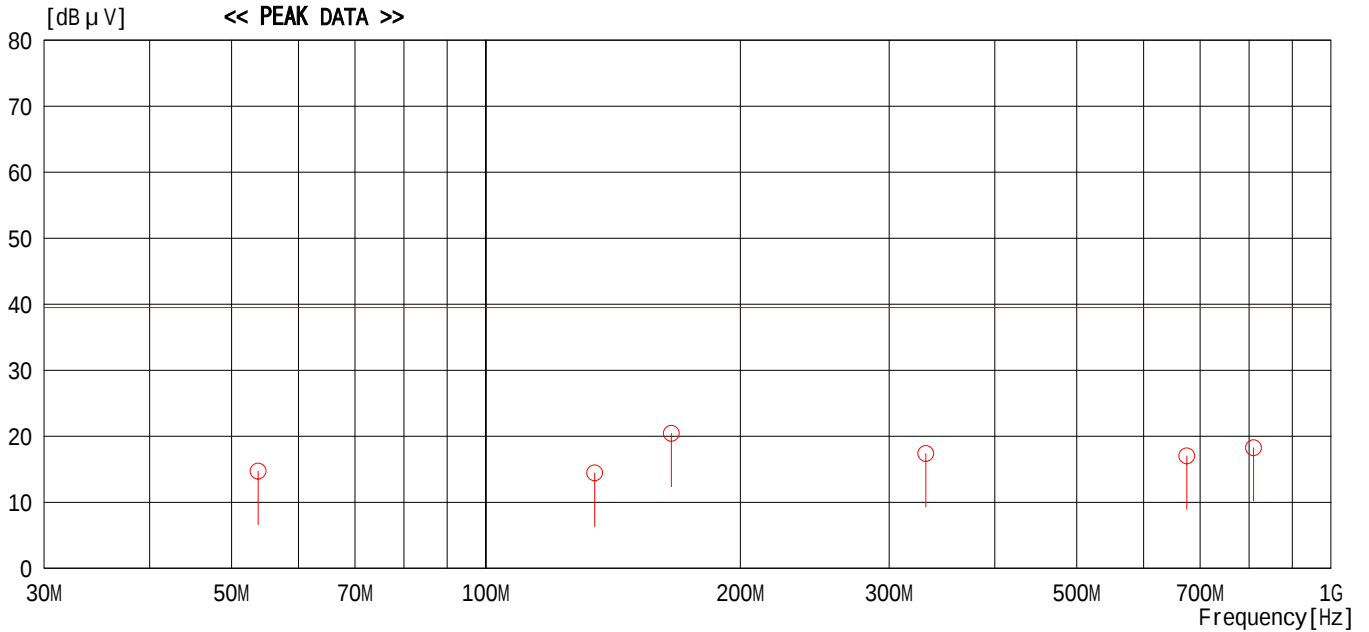
COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : DV-V393SU2
TEMP./HUMID. : 23 /41%

REPORT NO : 25KE0116-YW-1
DATE : July 01 ,2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

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

LIMIT : FCC 15B RF OUT SPURIOUS

— - ○:PEAK



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	53.7500	40.8	----	-26.1	14.7	----	39.5	----	24.8	----	-
2	134.4700	40.1	----	-25.7	14.4	----	39.5	----	25.1	----	-
3	165.7400	45.9	----	-25.4	20.5	----	39.5	----	19.1	----	-
4	331.4900	42.5	----	-25.1	17.4	----	39.5	----	22.1	----	-
5	675.0200	42.7	----	-25.7	17.0	----	39.5	----	22.5	----	-
6	810.0000	43.7	----	-25.4	18.3	----	39.5	----	21.2	----	-

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

DATA OF RF SPURIOUS TEST

UL Apex Co.,Ltd.

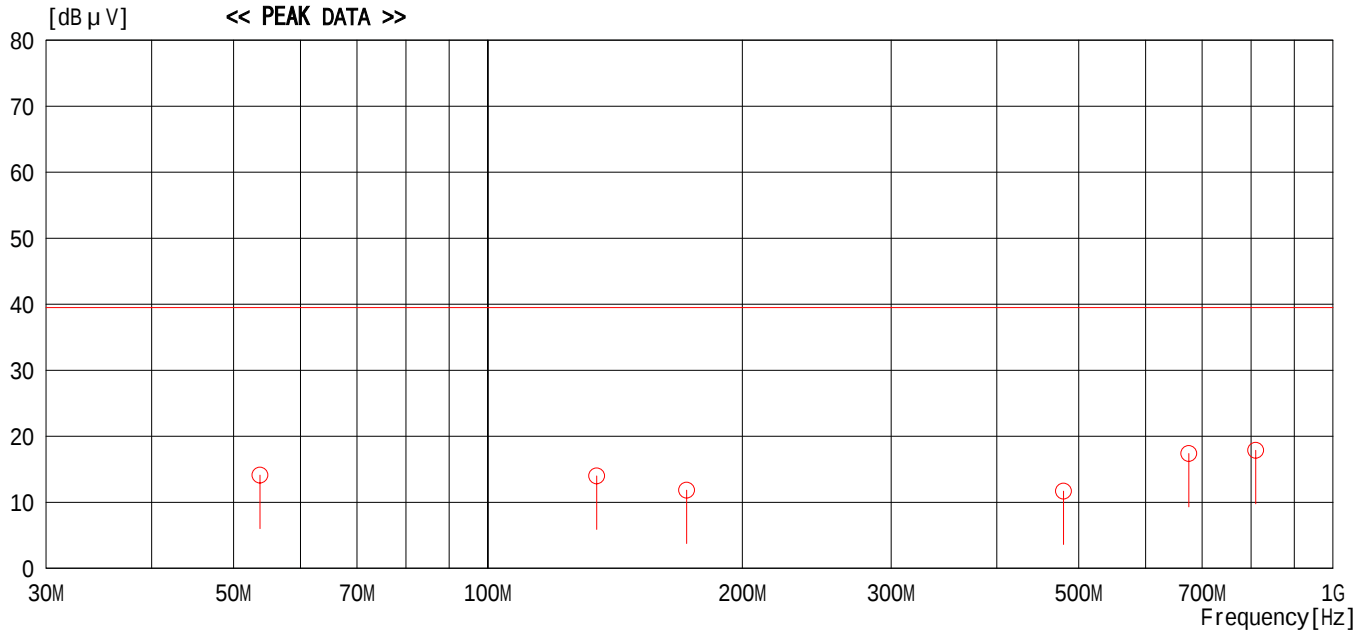
COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : DV-V393SU2
TEMP./HUMID. : 23 /41%

REPORT NO : 25KE0116-YW-1
DATE : July 01 ,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

— - ○:PEAK



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	40.2	----	-26.1	14.1	----	39.5	----	25.4	----	-
2	134.5000	39.7	----	-25.7	14.0	----	39.5	----	25.5	----	-
3	171.8300	37.2	----	-25.4	11.8	----	39.5	----	27.7	----	-
4	479.9900	36.6	----	-24.9	11.7	----	39.5	----	27.8	----	-
5	675.0000	43.1	----	-25.7	17.4	----	39.5	----	22.1	----	-
6	810.0100	43.3	----	-25.4	17.9	----	39.5	----	21.6	----	-

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

DATA OF RF SPURIOUS TEST

UL Apex Co.,Ltd.

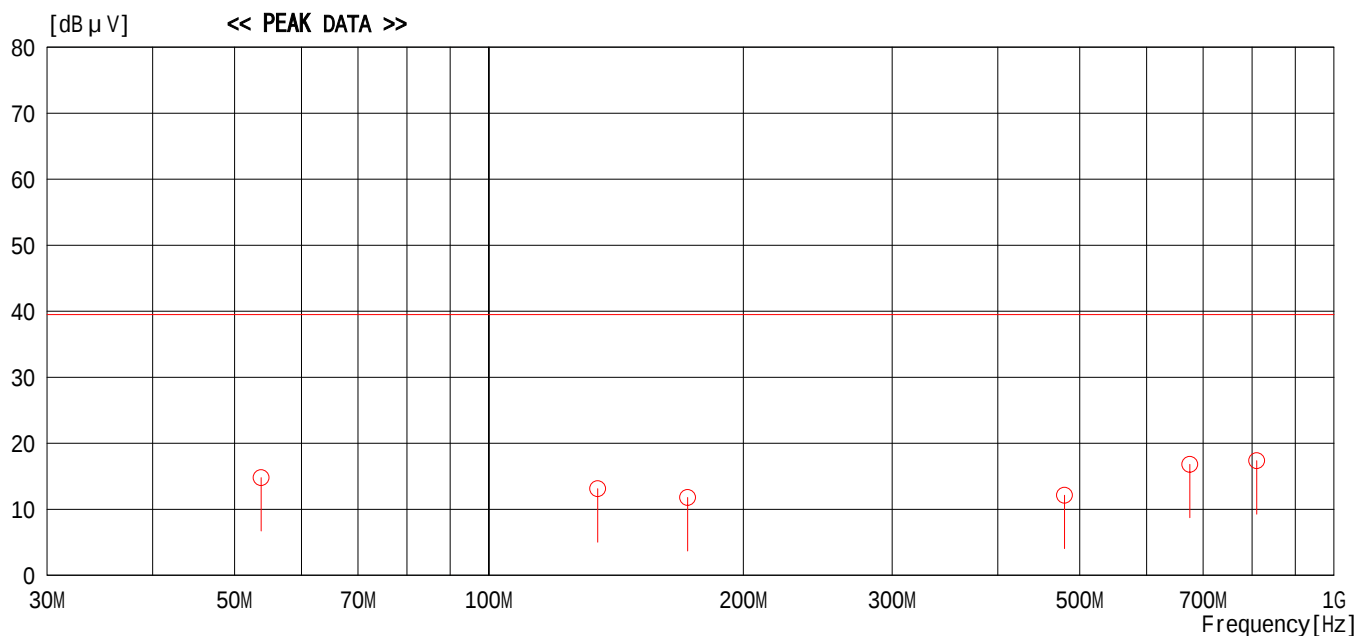
COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : DV-V393SU2
TEMP./HUMID. : 23 /41%

REPORT NO : 25KE0116-YW-1
DATE : July 01 ,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

— - ○:PEAK



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

DATA OF RF SPURIOUS TEST

UL Apex Co.,Ltd.

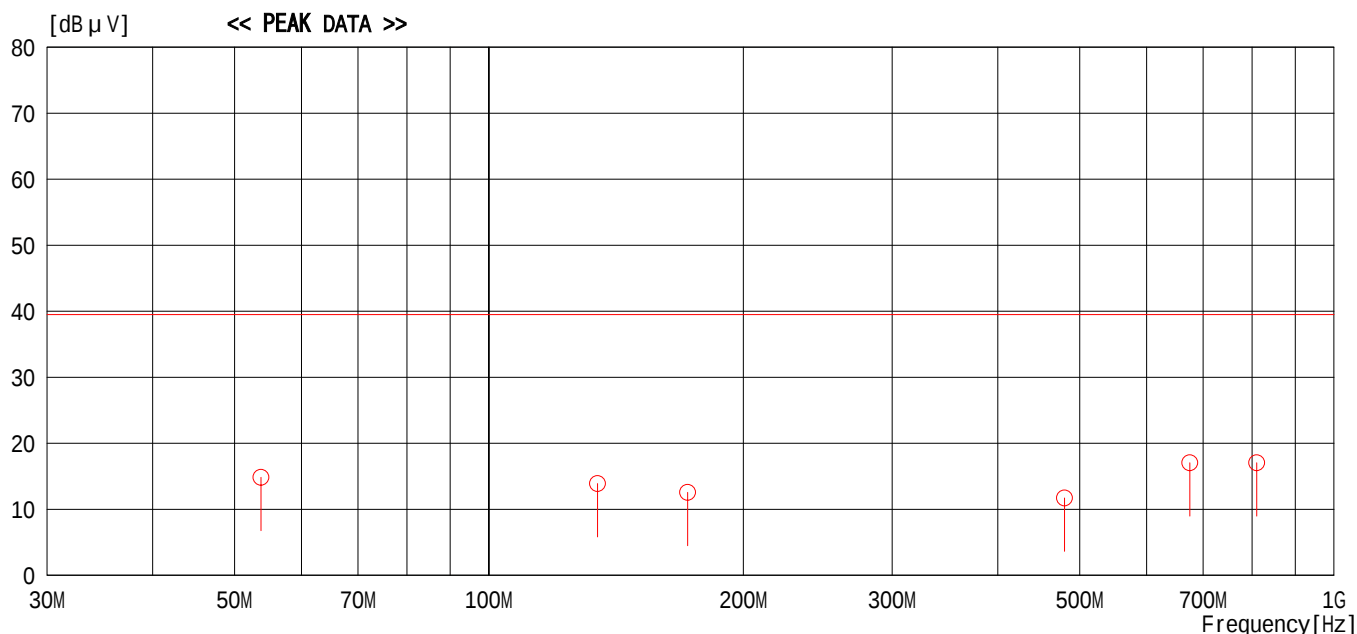
COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : DV-V393SU2
TEMP./HUMID. : 23 /41%

REPORT NO : 25KE0116-YW-1
DATE : July 01 ,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

— - ○:PEAK



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

DATA OF RF SPURIOUS TEST

UL Apex Co.,Ltd.

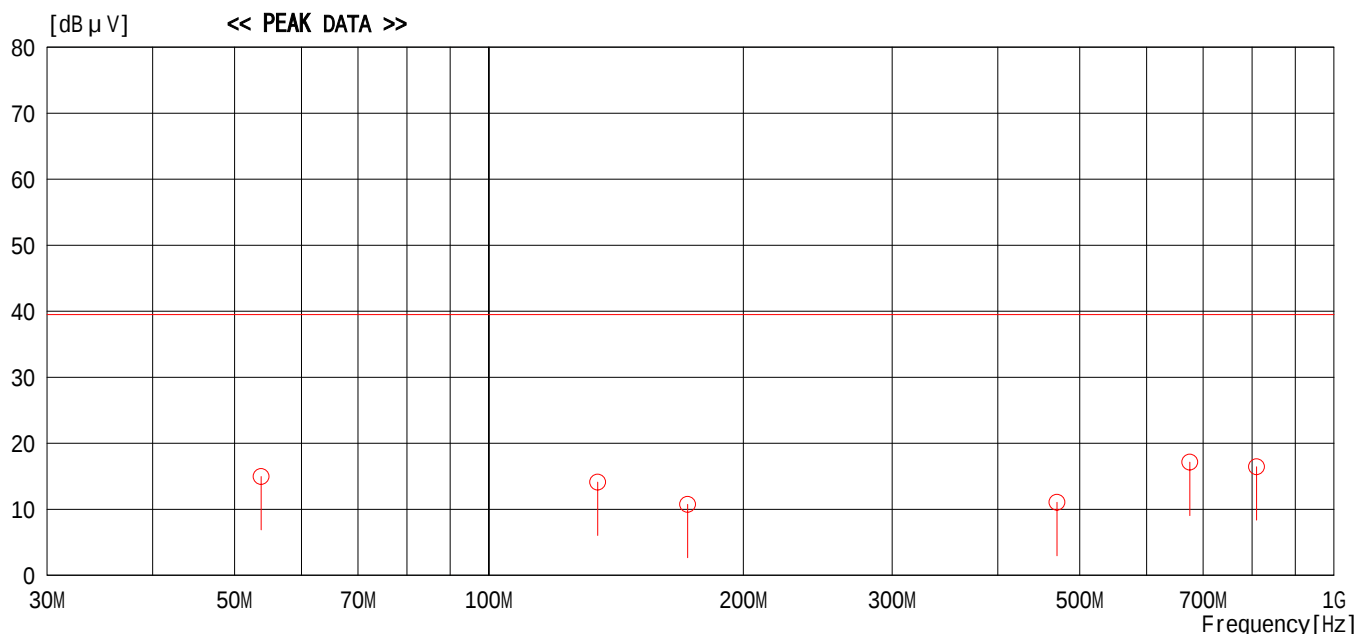
COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : DV-V393SU2
TEMP./HUMID. : 23 /41%

REPORT NO : 25KE0116-YW-1
DATE : July 01 ,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

— - ○:PEAK



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

DATA OF RF SPURIOUS TEST

UL Apex Co.,Ltd.

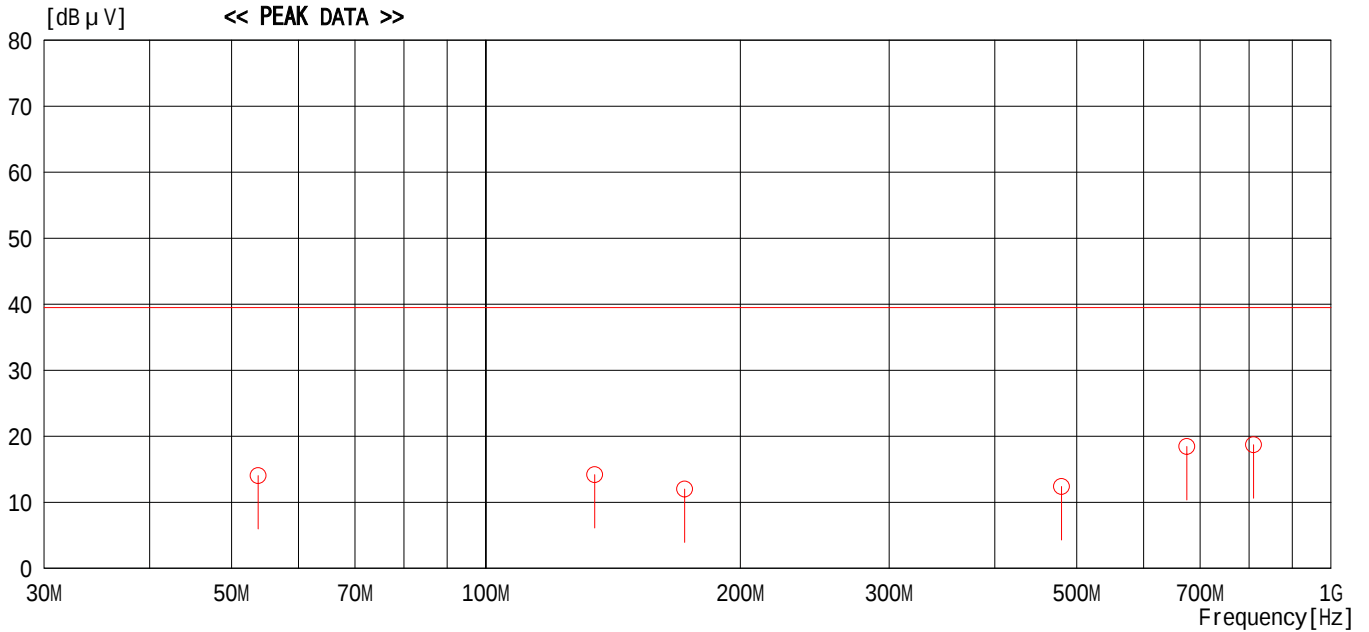
COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : DV-V393SU2
TEMP./HUMID. : 23 /41%

REPORT NO : 25KE0116-YW-1
DATE : July 01 ,2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

OPERATION MODE : VCR PLAYBACK (4ch)

LIMIT : FCC 15B RF OUT SPURIOUS

— - ○:PEAK



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	53.7500	40.2	----	-26.1	14.1	----	39.5	----	25.5	----	-
2	134.4900	39.9	----	-25.7	14.2	----	39.5	----	25.3	----	-
3	171.8200	37.4	----	-25.4	12.0	----	39.5	----	27.5	----	-
4	479.9900	37.3	----	-24.9	12.4	----	39.5	----	27.1	----	-
5	675.0200	44.2	----	-25.7	18.5	----	39.5	----	21.1	----	-
6	810.0000	44.1	----	-25.4	18.7	----	39.5	----	20.8	----	-

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

DATA OF RF SPURIOUS TEST

UL Apex Co.,Ltd.

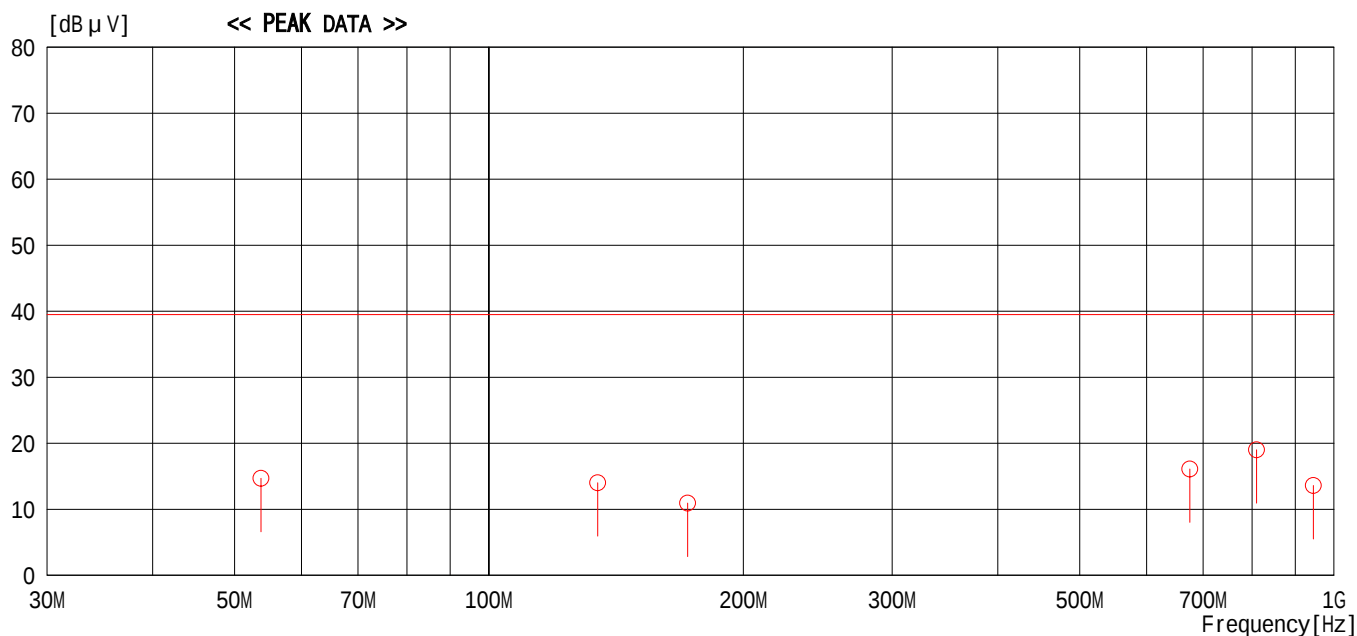
COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : DV-V393SU2
TEMP./HUMID. : 23 /41%

REPORT NO : 25KE0116-YW-1
DATE : July 01 ,2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

OPERATION MODE : DVD PLAY (4ch)

LIMIT : FCC 15B RF OUT SPURIOUS

— - ○:PEAK



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	53.7400	40.8	----	-26.1	14.7	----	39.5	----	24.8	----	-
2	134.4800	39.7	----	-25.7	14.0	----	39.5	----	25.5	----	-
3	171.8200	36.3	----	-25.4	10.9	----	39.5	----	28.6	----	-
4	675.0200	41.8	----	-25.7	16.1	----	39.5	----	23.4	----	-
5	810.0000	44.4	----	-25.4	19.0	----	39.5	----	20.5	----	-
6	945.0200	39.0	----	-25.4	13.6	----	39.5	----	25.9	----	-

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

DATA OF ANTENNA TRANSFER SWITCH TEST

UL Apex Co.,Ltd.

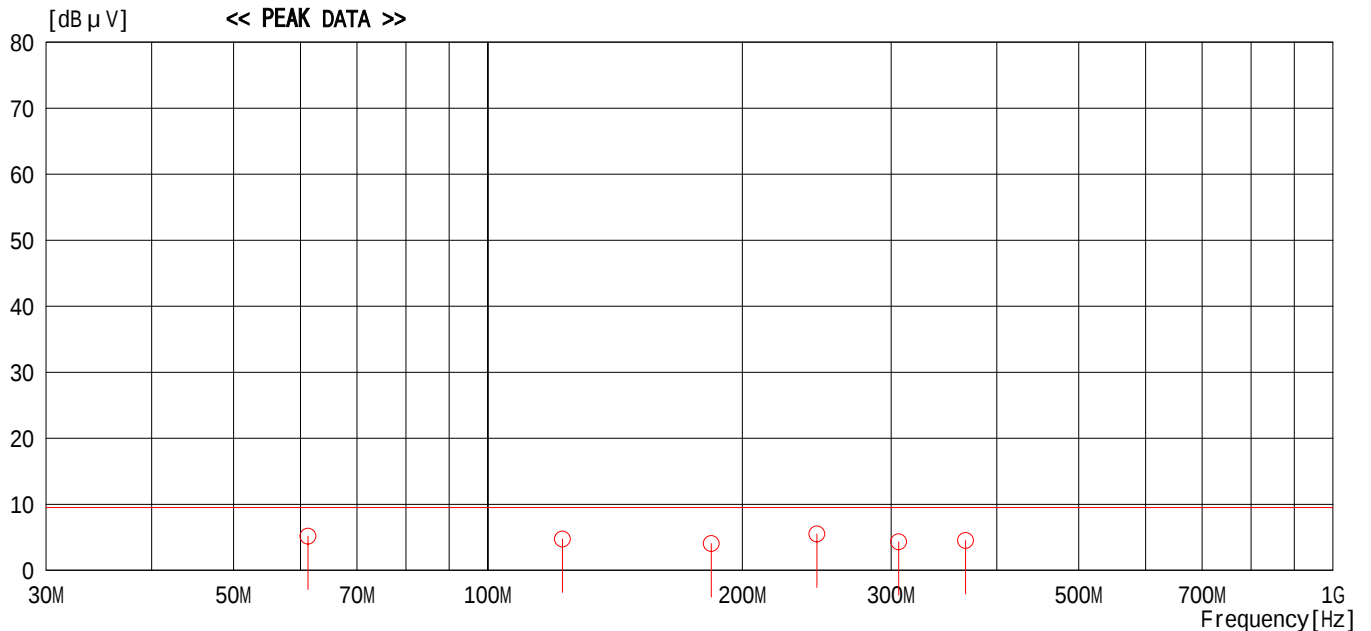
COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : SD-V393SU2
TEMP./HUMID. : 24 /41%

REPORT NO : 25KE0116-YW-1
DATE : July 01 ,2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

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

LIMIT : FCC15B ANTENNA TRANSFER SWITCH

— - ○:PEAK



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	31.3	----	-26.1	5.2	----	9.5	----	4.3	----	-
2	122.5000	30.4	----	-25.7	4.7	----	9.5	----	4.8	----	-
3	183.7500	29.3	----	-25.2	4.1	----	9.5	----	5.4	----	-
4	245.0000	30.6	----	-25.1	5.5	----	9.5	----	4.0	----	-
5	306.2500	29.5	----	-25.2	4.3	----	9.5	----	5.2	----	-
6	367.5000	29.5	----	-25.0	4.5	----	9.5	----	5.0	----	-

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

DATA OF ANTENNA TRANSFER SWITCH TEST

UL Apex Co.,Ltd.

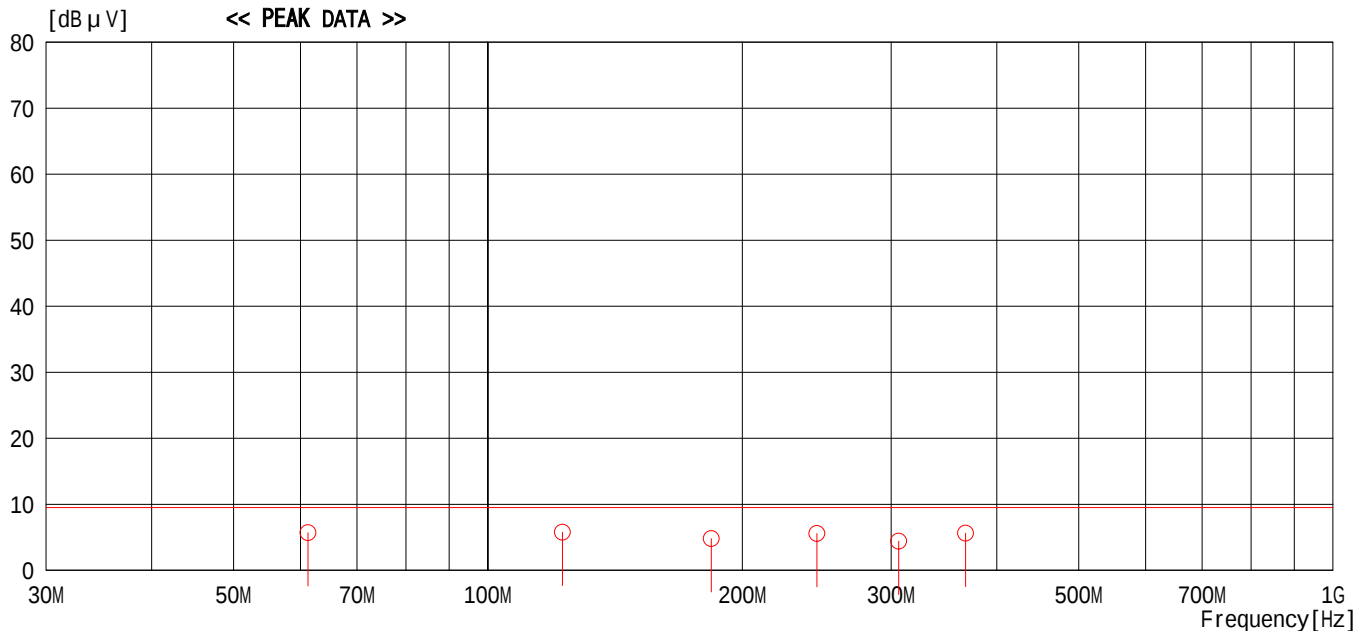
COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : SD-V393SU2
TEMP./HUMID. : 24 /41%

REPORT NO : 25KE0116-YW-1
DATE : July 01 ,2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

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

LIMIT : FCC15B ANTENNA TRANSFER SWITCH

— - ○:PEAK



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	31.8	----	-26.1	5.7	----	9.5	----	3.8	----	-
2	122.5000	31.5	----	-25.7	5.8	----	9.5	----	3.7	----	-
3	183.7500	30.0	----	-25.2	4.8	----	9.5	----	4.7	----	-
4	245.0000	30.7	----	-25.1	5.6	----	9.5	----	3.9	----	-
5	306.2500	29.6	----	-25.2	4.4	----	9.5	----	5.1	----	-
6	367.5000	30.6	----	-25.0	5.6	----	9.5	----	3.9	----	-

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

DATA OF ANTENNA TRANSFER SWITCH TEST

UL Apex Co.,Ltd.

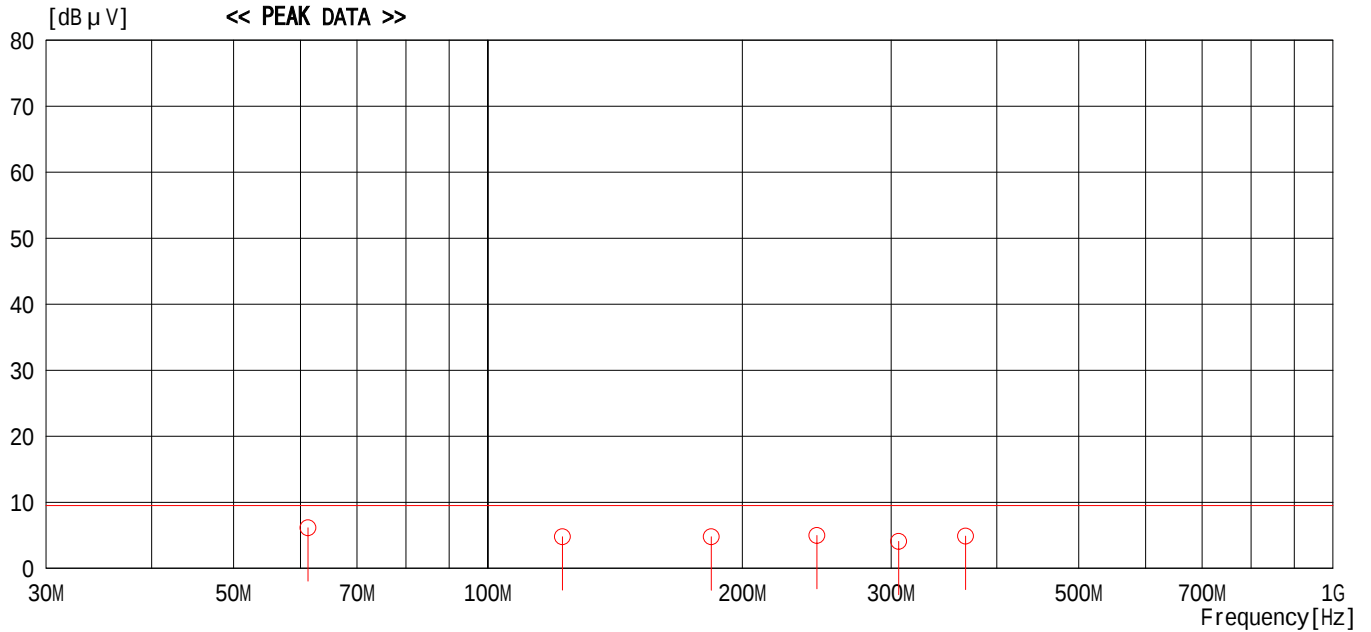
COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : SD-V393SU2
TEMP./HUMID. : 24 /41%

REPORT NO : 25KE0116-YW-1
DATE : July 01 ,2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

OPERATION MODE : AV Input 2 + Rec (1Vp-p : 3ch)

LIMIT : FCC15B ANTENNA TRANSFER SWITCH

— - ○:PEAK



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	32.3	----	-26.1	6.2	----	9.5	----	3.4	----	-
2	122.5000	30.5	----	-25.7	4.8	----	9.5	----	4.7	----	-
3	183.7500	30.0	----	-25.2	4.8	----	9.5	----	4.7	----	-
4	245.0000	30.1	----	-25.1	5.0	----	9.5	----	4.5	----	-
5	306.2500	29.3	----	-25.2	4.1	----	9.5	----	5.4	----	-
6	367.5000	29.9	----	-25.0	4.9	----	9.5	----	4.6	----	-

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

DATA OF ANTENNA TRANSFER SWITCH TEST

UL Apex Co.,Ltd.

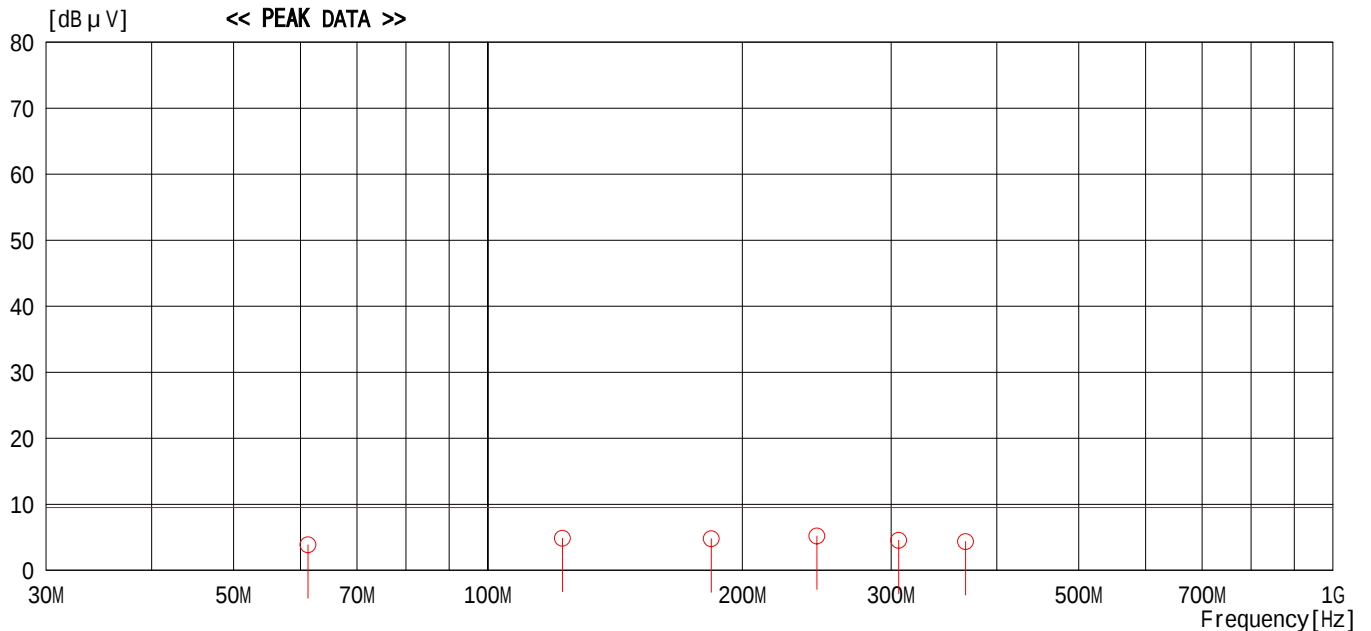
COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : SD-V393SU2
TEMP./HUMID. : 24 /41%

REPORT NO : 25KE0116-YW-1
DATE : July 01 ,2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

OPERATION MODE : AV Input 2 + Rec (5Vp-p : 3ch)

LIMIT : FCC15B ANTENNA TRANSFER SWITCH

— - ○:PEAK



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	30.0	----	-26.1	3.9	----	9.5	----	5.7	----	-
2	122.5000	30.5	----	-25.7	4.8	----	9.5	----	4.7	----	-
3	183.7500	30.0	----	-25.2	4.8	----	9.5	----	4.7	----	-
4	245.0000	30.3	----	-25.1	5.2	----	9.5	----	4.3	----	-
5	306.2500	29.8	----	-25.2	4.5	----	9.5	----	5.0	----	-
6	367.5000	29.3	----	-25.0	4.3	----	9.5	----	5.2	----	-

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

DATA OF ANTENNA TRANSFER SWITCH TEST

UL Apex Co.,Ltd.

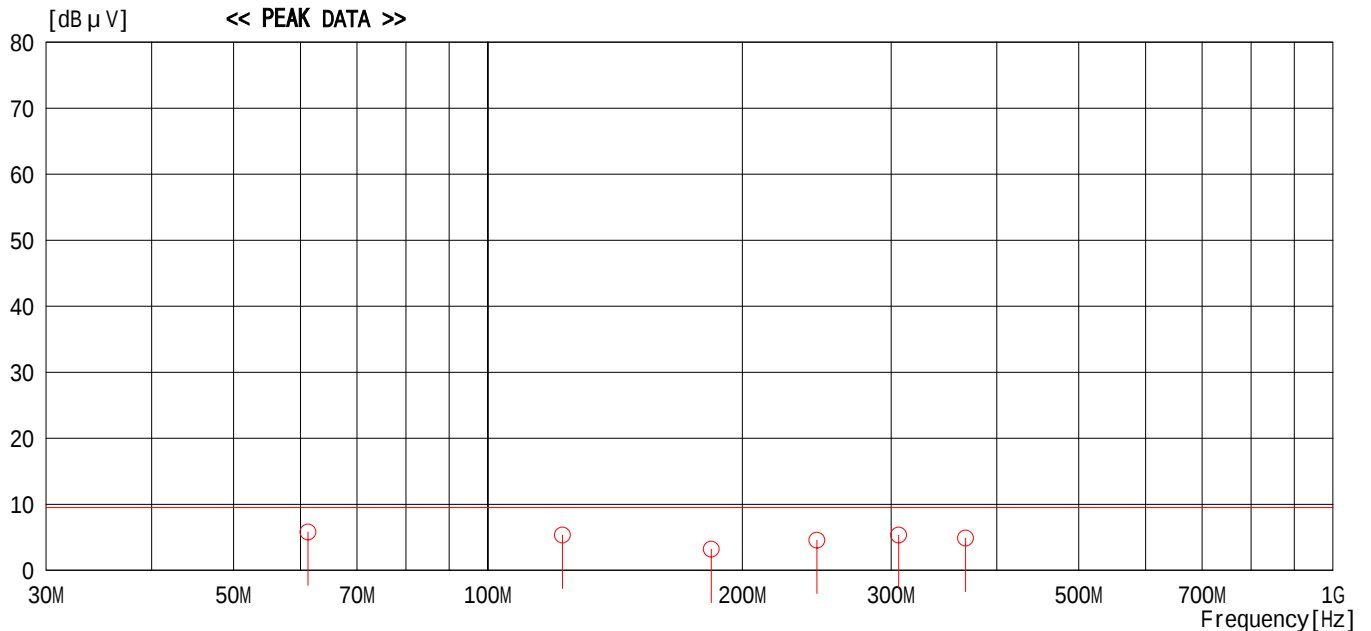
COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : SD-V393SU2
TEMP./HUMID. : 24 /41%

REPORT NO : 25KE0116-YW-1
DATE : July 01 ,2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

OPERATION MODE : VCR PLAYBACK (3ch)

LIMIT : FCC15B ANTENNA TRANSFER SWITCH

— - ○:PEAK



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	31.9	----	-26.1	5.8	----	9.5	----	3.7	----	-
2	122.5000	31.0	----	-25.7	5.3	----	9.5	----	4.2	----	-
3	183.7500	28.4	----	-25.2	3.2	----	9.5	----	6.3	----	-
4	245.0000	29.7	----	-25.1	4.6	----	9.5	----	4.9	----	-
5	306.2500	30.5	----	-25.2	5.3	----	9.5	----	4.2	----	-
6	367.5000	29.9	----	-25.0	4.9	----	9.5	----	4.6	----	-

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

DATA OF ANTENNA TRANSFER SWITCH TEST

UL Apex Co.,Ltd.

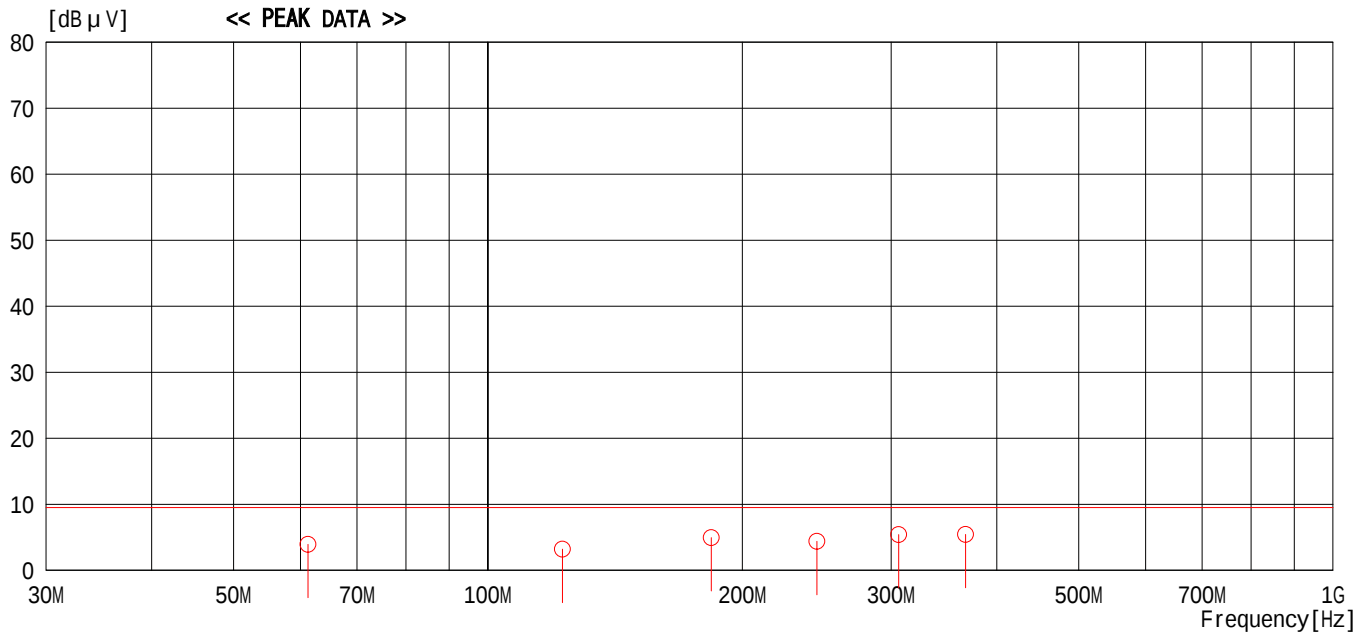
COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : SD-V393SU2
TEMP./HUMID. : 24 /41%

REPORT NO : 25KE0116-YW-1
DATE : July 01 ,2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

OPERATION MODE : DVD PLAY (3ch)

LIMIT : FCC15B ANTENNA TRANSFER SWITCH

— - ○:PEAK



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	30.0	----	-26.1	3.9	----	9.5	----	5.6	----	-
2	122.5000	28.9	----	-25.7	3.2	----	9.5	----	6.3	----	-
3	183.7500	30.2	----	-25.2	5.0	----	9.5	----	4.5	----	-
4	245.0000	29.5	----	-25.1	4.4	----	9.5	----	5.1	----	-
5	306.2500	30.6	----	-25.2	5.4	----	9.5	----	4.1	----	-
6	367.5000	30.4	----	-25.0	5.4	----	9.5	----	4.1	----	-

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

DATA OF ANTENNA TRANSFER SWITCH TEST

UL Apex Co.,Ltd.

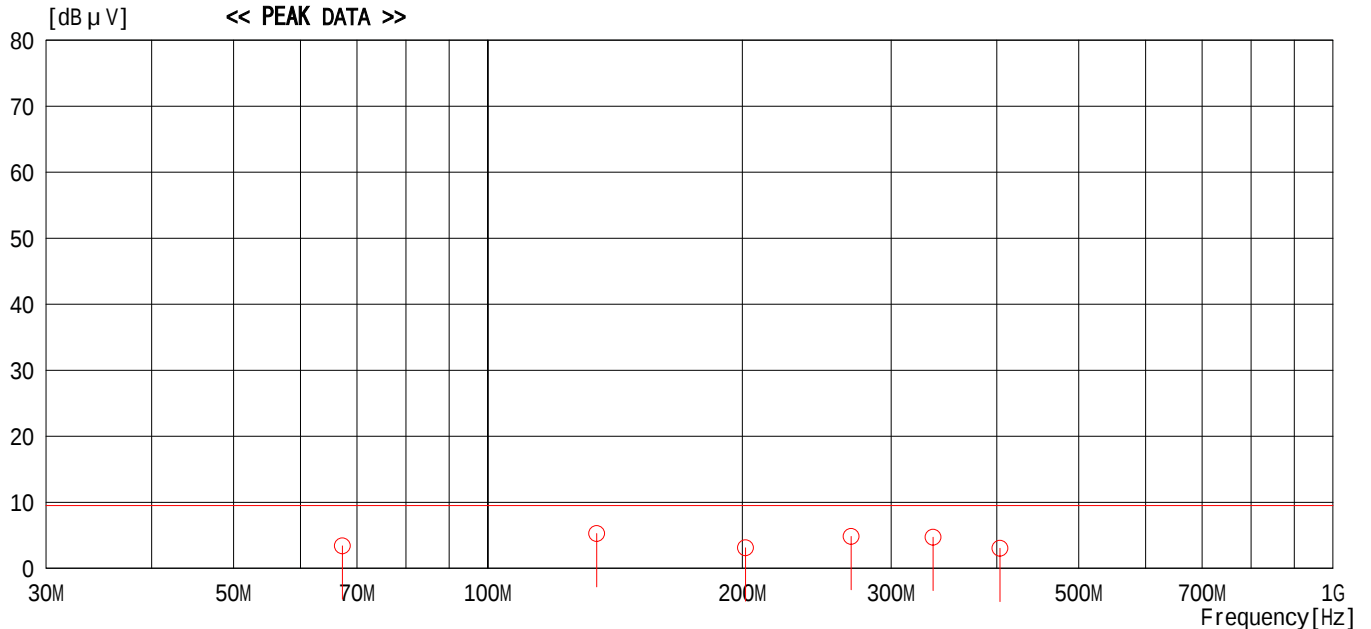
COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : SD-V393SU2
TEMP./HUMID. : 24 /41%

REPORT NO : 25KE0116-YW-1
DATE : July 01 ,2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

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

LIMIT : FCC15B ANTENNA TRANSFER SWITCH

— - ○:PEAK



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	29.4	----	-26.0	3.4	----	9.5	----	6.1	----	-
2	134.5000	31.0	----	-25.7	5.3	----	9.5	----	4.2	----	-
3	201.7500	28.1	----	-25.0	3.1	----	9.5	----	6.4	----	-
4	269.0000	29.9	----	-25.1	4.8	----	9.5	----	4.7	----	-
5	336.2500	29.8	----	-25.1	4.7	----	9.5	----	4.8	----	-
6	403.5000	28.1	----	-25.1	3.0	----	9.5	----	6.5	----	-

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

DATA OF ANTENNA TRANSFER SWITCH TEST

UL Apex Co.,Ltd.

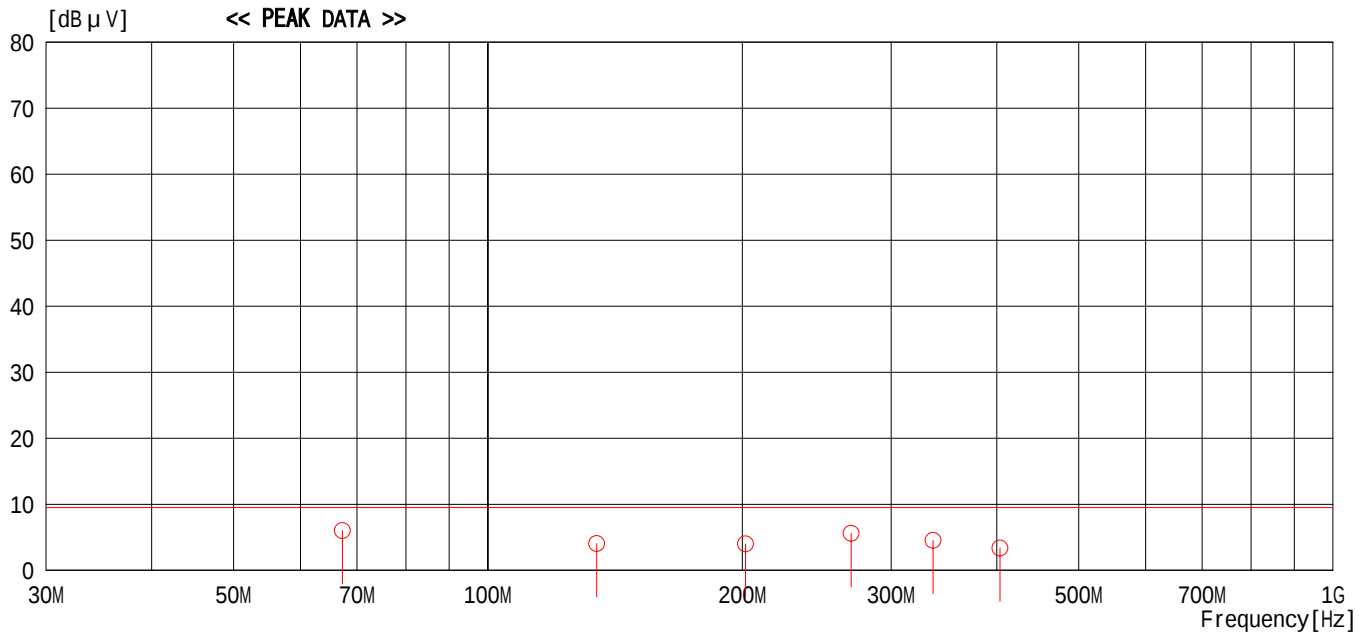
COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : SD-V393SU2
TEMP./HUMID. : 24 /41%

REPORT NO : 25KE0116-YW-1
DATE : July 01 ,2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

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

LIMIT : FCC15B ANTENNA TRANSFER SWITCH

— - ○:PEAK



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	32.0	----	-26.0	6.0	----	9.5	----	3.5	----	-
2	134.5000	29.8	----	-25.7	4.1	----	9.5	----	5.4	----	-
3	201.7500	29.0	----	-25.0	4.0	----	9.5	----	5.5	----	-
4	269.0000	30.7	----	-25.1	5.6	----	9.5	----	3.9	----	-
5	336.2500	29.6	----	-25.1	4.5	----	9.5	----	5.0	----	-
6	403.5000	28.5	----	-25.1	3.4	----	9.5	----	6.1	----	-

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

DATA OF ANTENNA TRANSFER SWITCH TEST

UL Apex Co.,Ltd.

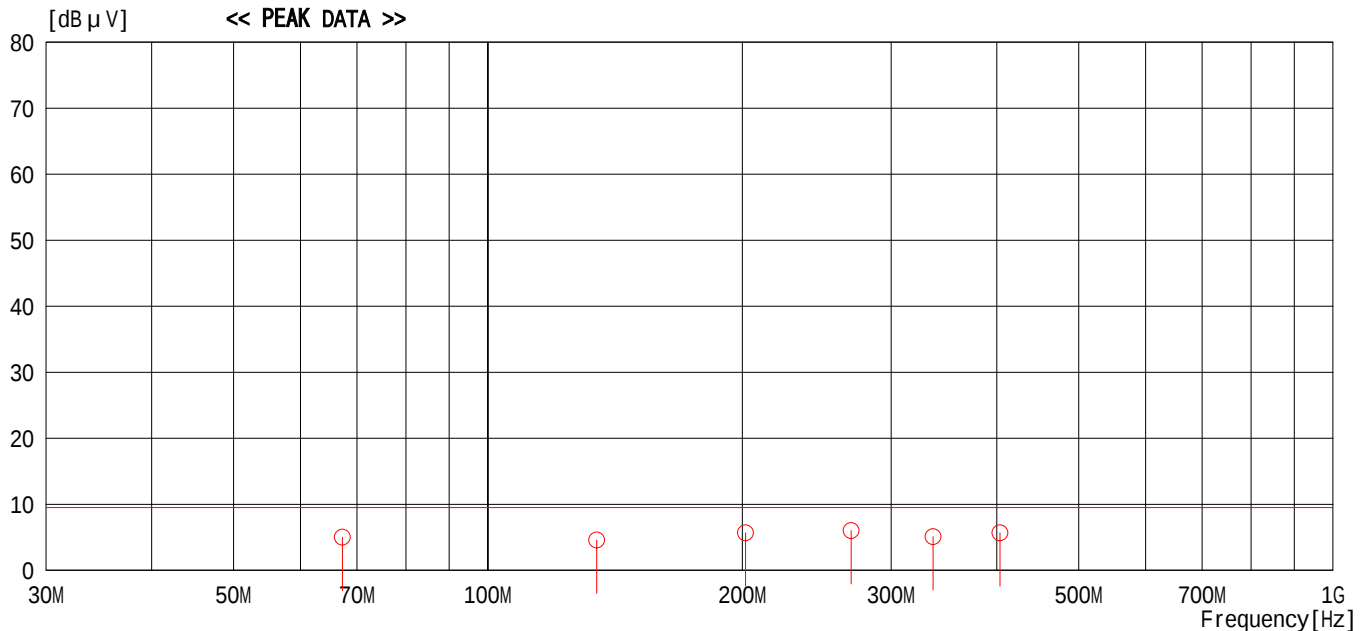
COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : SD-V393SU2
TEMP./HUMID. : 24 /41%

REPORT NO : 25KE0116-YW-1
DATE : July 01 ,2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

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

LIMIT : FCC15B ANTENNA TRANSFER SWITCH

— - ○:PEAK



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	31.0	----	-26.0	5.0	----	9.5	----	4.5	----	-
2	134.5000	30.3	----	-25.7	4.6	----	9.5	----	4.9	----	-
3	201.7500	30.7	----	-25.0	5.7	----	9.5	----	3.8	----	-
4	269.0000	31.1	----	-25.1	6.0	----	9.5	----	3.5	----	-
5	336.2500	30.2	----	-25.1	5.1	----	9.5	----	4.4	----	-
6	403.5000	30.8	----	-25.1	5.7	----	9.5	----	3.8	----	-

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

DATA OF ANTENNA TRANSFER SWITCH TEST

UL Apex Co.,Ltd.

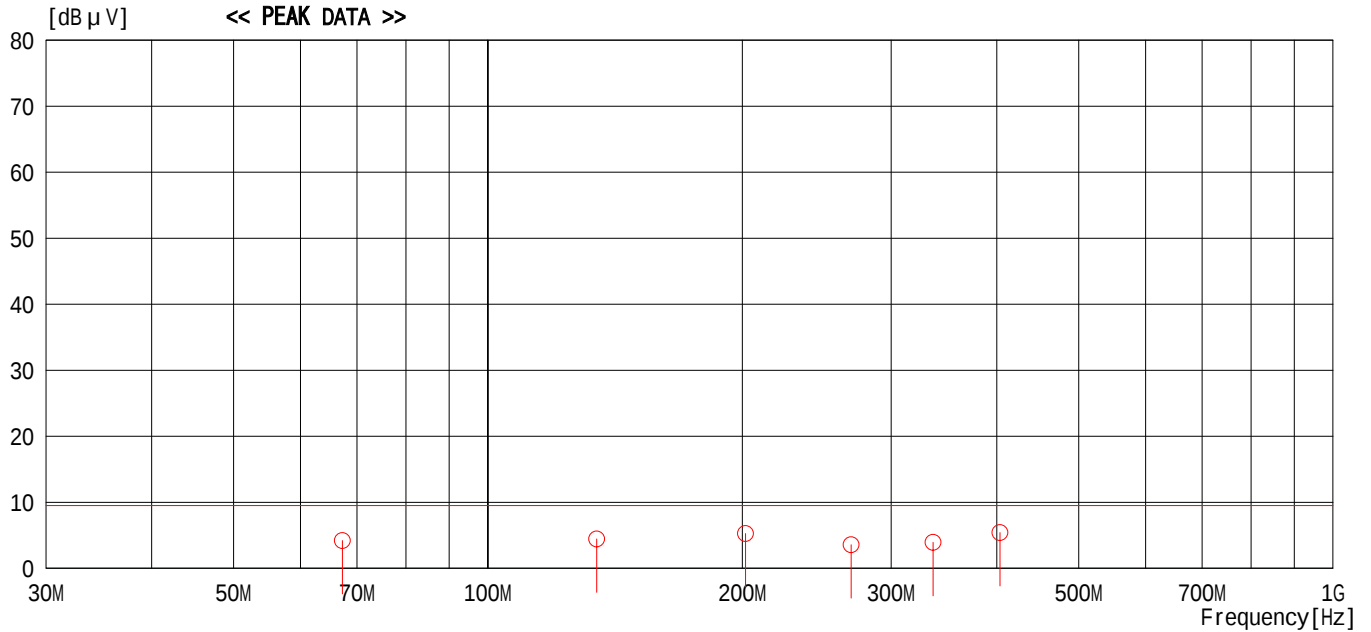
COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : SD-V393SU2
TEMP./HUMID. : 24 /41%

REPORT NO : 25KE0116-YW-1
DATE : July 01 ,2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

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

LIMIT : FCC15B ANTENNA TRANSFER SWITCH

— - ○:PEAK



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	30.2	----	-26.0	4.2	----	9.5	----	5.3	----	-
2	134.5000	30.1	----	-25.7	4.4	----	9.5	----	5.1	----	-
3	201.7500	30.3	----	-25.0	5.3	----	9.5	----	4.3	----	-
4	269.0000	28.7	----	-25.1	3.6	----	9.5	----	5.9	----	-
5	336.2500	29.0	----	-25.1	3.9	----	9.5	----	5.6	----	-
6	403.5000	30.5	----	-25.1	5.4	----	9.5	----	4.1	----	-

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

DATA OF ANTENNA TRANSFER SWITCH TEST

UL Apex Co.,Ltd.

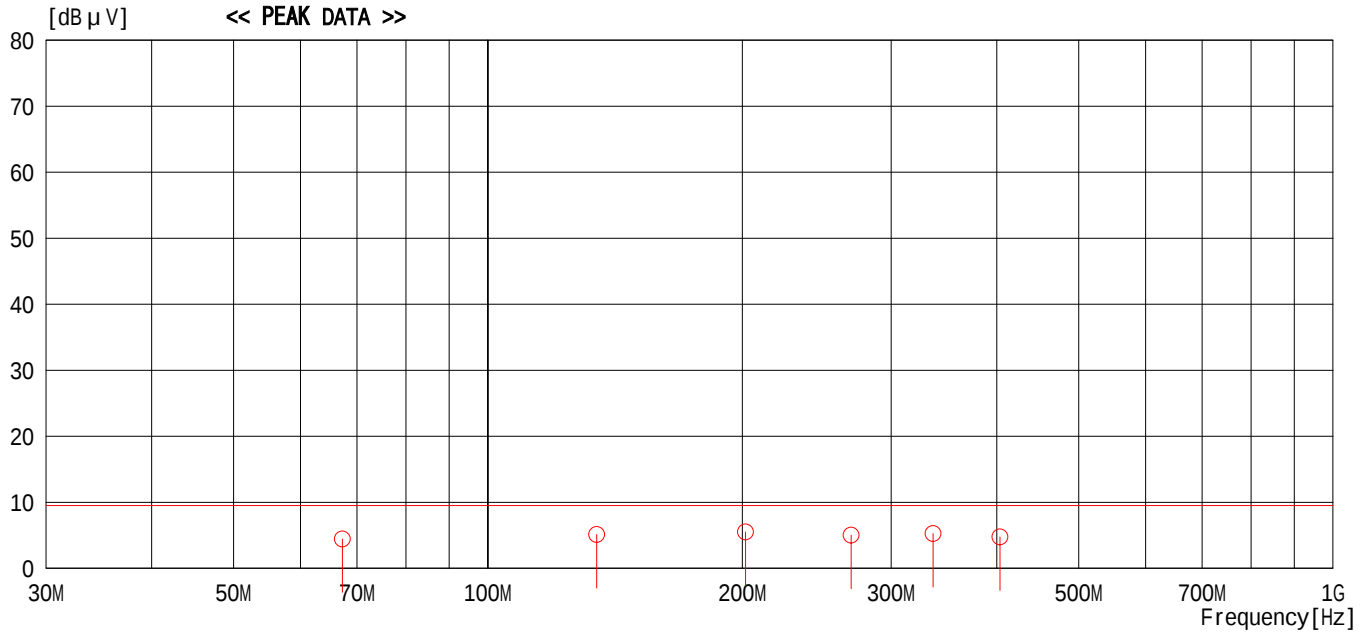
COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : SD-V393SU2
TEMP./HUMID. : 24 /41%

REPORT NO : 25KE0116-YW-1
DATE : July 01 ,2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

OPERATION MODE : VCR PLAYBACK (4ch)

LIMIT : FCC15B ANTENNA TRANSFER SWITCH

— - ○:PEAK



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	30.5	----	-26.0	4.5	----	9.5	----	5.0	----	-
2	134.5000	30.8	----	-25.7	5.1	----	9.5	----	4.4	----	-
3	201.7500	30.5	----	-25.0	5.5	----	9.5	----	4.0	----	-
4	269.0000	30.1	----	-25.1	5.0	----	9.5	----	4.5	----	-
5	336.2500	30.4	----	-25.1	5.3	----	9.5	----	4.3	----	-
6	403.5000	29.9	----	-25.1	4.8	----	9.5	----	4.7	----	-

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

DATA OF ANTENNA TRANSFER SWITCH TEST

UL Apex Co.,Ltd.

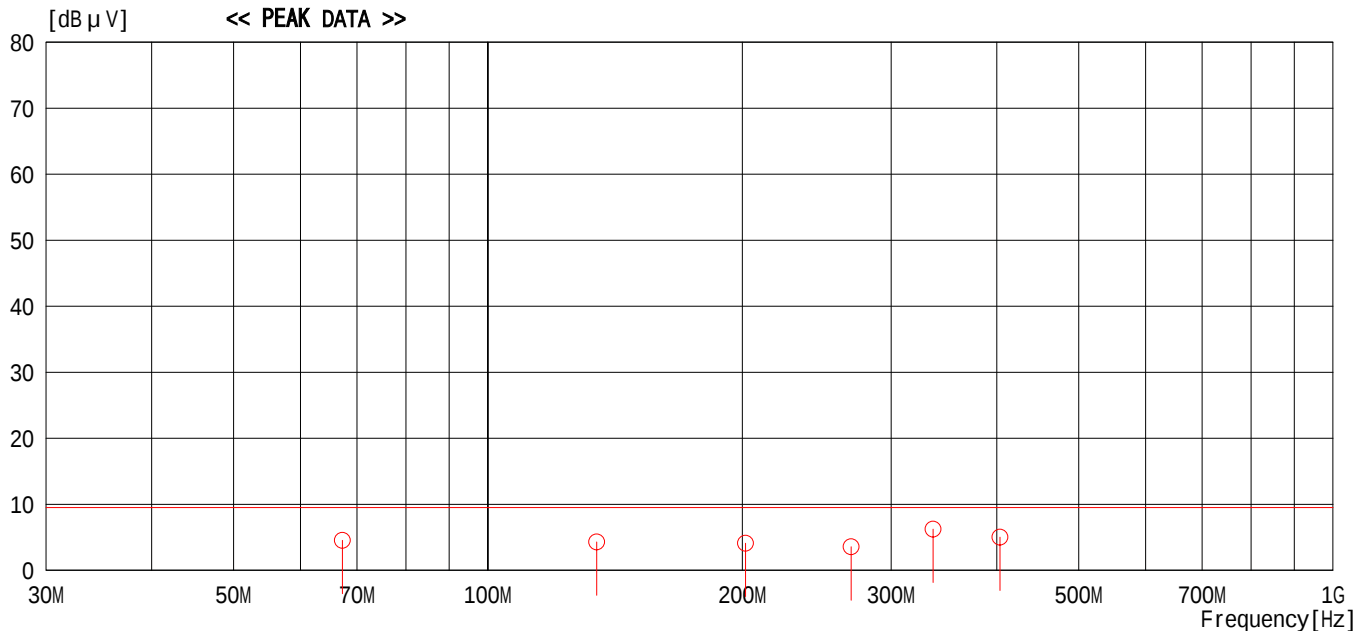
COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : SD-V393SU2
TEMP./HUMID. : 24 /41%

REPORT NO : 25KE0116-YW-1
DATE : July 01 ,2005
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

OPERATION MODE : DVD PLAY (4ch)

LIMIT : FCC15B ANTENNA TRANSFER SWITCH

— - ○:PEAK



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	30.5	----	-26.0	4.5	----	9.5	----	5.0	----	-
2	134.5000	30.0	----	-25.7	4.3	----	9.5	----	5.2	----	-
3	201.7500	29.1	----	-25.0	4.1	----	9.5	----	5.4	----	-
4	269.0000	28.7	----	-25.1	3.6	----	9.5	----	5.9	----	-
5	336.2500	31.4	----	-25.1	6.3	----	9.5	----	3.3	----	-
6	403.5000	30.1	----	-25.1	5.0	----	9.5	----	4.5	----	-

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-V393SU2
Power : 120V/60Hz
Description : TV Reception
Remarks : -

Report Number : 25KE0116-YW-1
Regulation : FCC Part15 SubpartB
Date : June 29, 2005
Temp / Humid : 23deg.C / 45%
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	20.5	10.6
3	61.25	18.3	8.2	20	507.25	21.2	11.5
4	67.25	17.2	7.2	26	543.25	21.8	12.3
5	77.25	16.9	7.0	32	579.25	22.6	13.5
6	83.25	16.7	6.8	38	615.25	24.3	16.4
7	175.25	19.5	9.4	44	651.25	24.3	16.4
8	181.25	19.1	9.0	50	687.25	24.2	16.2
9	187.25	18.8	8.7	56	723.25	22.9	14.0
10	193.25	19.0	8.9	62	759.25	23.2	14.5
11	199.25	19.1	9.0	69	801.25	22.4	13.2
12	205.25	19.6	9.5	-	-	-	-
13	211.25	19.3	9.2	-	-	-	-
Average VHF			8.6	Average UHF			13.8
Average UHF/VHF : $20 \log \text{UHF}[\mu\text{V}] / \text{VHF}[\mu\text{V}] =$				4.1 [Limit : 8.0dB]			

Noise Figure Test

UL Apex Co.,Ltd.
Yokowa EMC Laboratory

Company : Orion Electric Co.,Ltd.
Equipment : DVD/VCR
Model Number : SD-V393SU2
Power : 120V/60Hz
Description : TV Reception
Remarks : -

Report Number : 25KE0116-YW-1
Regulation : FCC Part15 SubpartB
Date : June 29, 2005
Temp / Humid : 23deg.C / 45%
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	4.6	0.2	4.4	14.0	9.6
4	67.25	4.0	0.2	3.8	14.0	10.2
5	77.25	3.2	0.2	3.0	14.0	11.0
6	83.25	3.5	0.2	3.3	14.0	10.7
7	175.25	4.8	0.2	4.6	14.0	9.4
8	181.25	4.7	0.2	4.5	14.0	9.5
9	187.25	4.6	0.2	4.4	14.0	9.6
10	193.25	4.7	0.2	4.5	14.0	9.5
11	199.25	5.0	0.2	4.8	14.0	9.2
12	205.25	4.8	0.2	4.6	14.0	9.4
13	211.25	4.7	0.2	4.5	14.0	9.5
TV UHF Fundamental						
14	471.25	6.0	0.3	5.7	14.0	8.3
20	507.25	6.2	0.3	5.9	14.0	8.1
26	543.25	6.5	0.3	6.2	14.0	7.8
32	579.25	6.9	0.3	6.6	14.0	7.4
38	615.25	7.9	0.3	7.6	14.0	6.4
44	651.25	7.7	0.3	7.4	14.0	6.6
50	687.25	6.7	0.3	6.4	14.0	7.6
56	723.25	6.2	0.4	5.8	14.0	8.2
62	759.25	6.0	0.4	5.6	14.0	8.4
69	801.25	6.3	0.4	5.9	14.0	8.1
Mid band						
14	121.25	3.8	0.2	3.6	14.0	10.4
16	133.25	7.8	0.2	7.6	14.0	6.4
18	145.25	6.6	0.2	6.4	14.0	7.6
20	157.25	5.7	0.2	5.5	14.0	8.5
22	169.25	5.8	0.2	5.6	14.0	8.4
Super band						
23	217.25	5.0	0.2	4.8	14.0	9.2
26	235.25	5.1	0.2	4.9	14.0	9.1
29	253.25	5.3	0.2	5.1	14.0	8.9
32	271.25	5.4	0.2	5.2	14.0	8.8
36	295.25	5.5	0.2	5.3	14.0	8.7

Test Report No : 25KE0116-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, 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	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
AF-05	Pre Amplifier	Hewlett Packard	8447D	AT, RF, ATS	2005/05/31 * 12
AF-06	Pre Amplifier	Agilent	HP8449B	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-04	Pre Amplifier	Hewlett Packard	8449B	RE	2005/01/18 * 12
HA-01	Horn Antenna	A.H.Systems	SAS-200/571	RE	2005/04/06 * 12
SA-07	Spectrum Analyzer	Advantest	R3273	RE	2004/07/26 * 12
YOATS-01	Open Test Site	JSE	3m, 10m	RE	2005/04/30 * 12
OS-06	Digital Humidity Indicator	SATO	PC-5000TRH	RE	2004/04/01 * 24
CC-C1	Microwave Cable	Suhner/storm	-	RE	2004/12/15 * 12
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
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
SA-06	Spectrum Analyzer	Advantest	R3273	CE, RE	2004/11/02 * 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-3ORC	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	2005/05/04 * 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
APTVG01	TV Generator	Leader	408NPS	CE, RE	Pre Check

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