

DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.3 OPEN TEST SITE

Report No. : 26GE0303-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Recorder with Video Cassette Recorder
Model No. : D-VR5SU
Serial No. : -
Power : AC120V/60Hz
Mode : TV Reception+Rec (25dBmV)
Remarks : -
Date : 3/15/2006
Test Distance : 3 m
Temperature : 21 °C Engineer : Toshifumi Yoneshige
Humidity : 45 %
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.	1014.90	BB	48.7	50.9	24.0	40.0	3.9	0.0	36.6	38.8	74.0	37.4	35.2
2.	1349.99	BB	54.2	60.7	24.2	39.5	4.3	0.0	43.2	49.7	74.0	30.8	24.3
3.	1760.00	BB	47.9	46.7	24.4	38.8	4.8	0.0	38.3	37.1	74.0	35.7	36.9

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

Except for the above table: adequate margin data below the limits.
ANT TYPE: 1-5GHz Horn

DATA OF RADIATION TEST

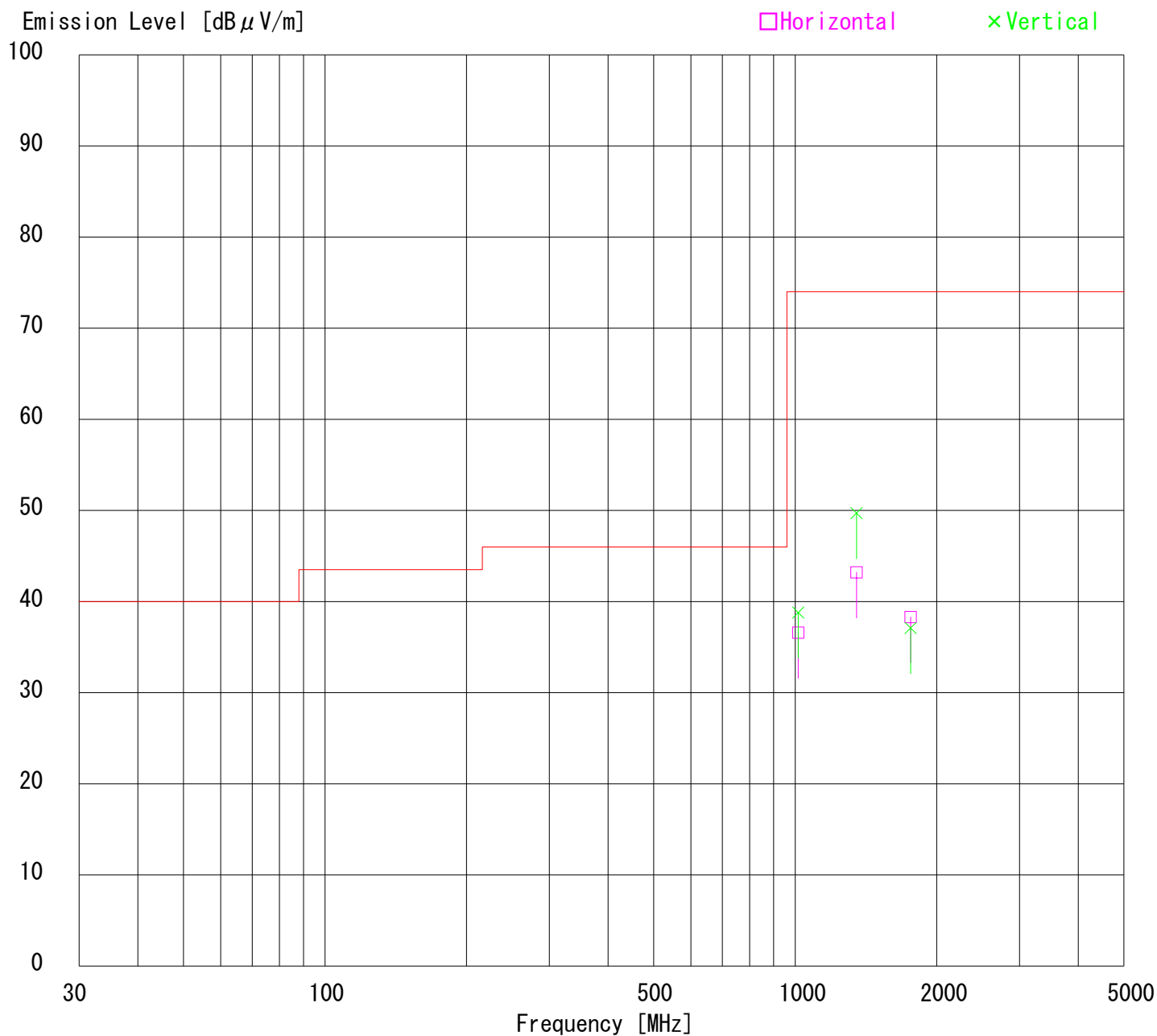
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Engineer : Toshifumi Yoneshige



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Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Recorder with Video Cassette Recorder
Model No. : D-VR5SU
Serial No. : -
Power : AC120V/60Hz
Mode : AV Input1+Rec (1Vp-p)
Remarks : -
Date : 3/14/2006
Test Distance : 3 m
Temperature : 23 °C
Humidity : 65 %
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.	540.00	BB	37.6	35.0	20.3	27.9	5.5	5.9	41.4	38.8	46.0	4.6	7.2

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

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

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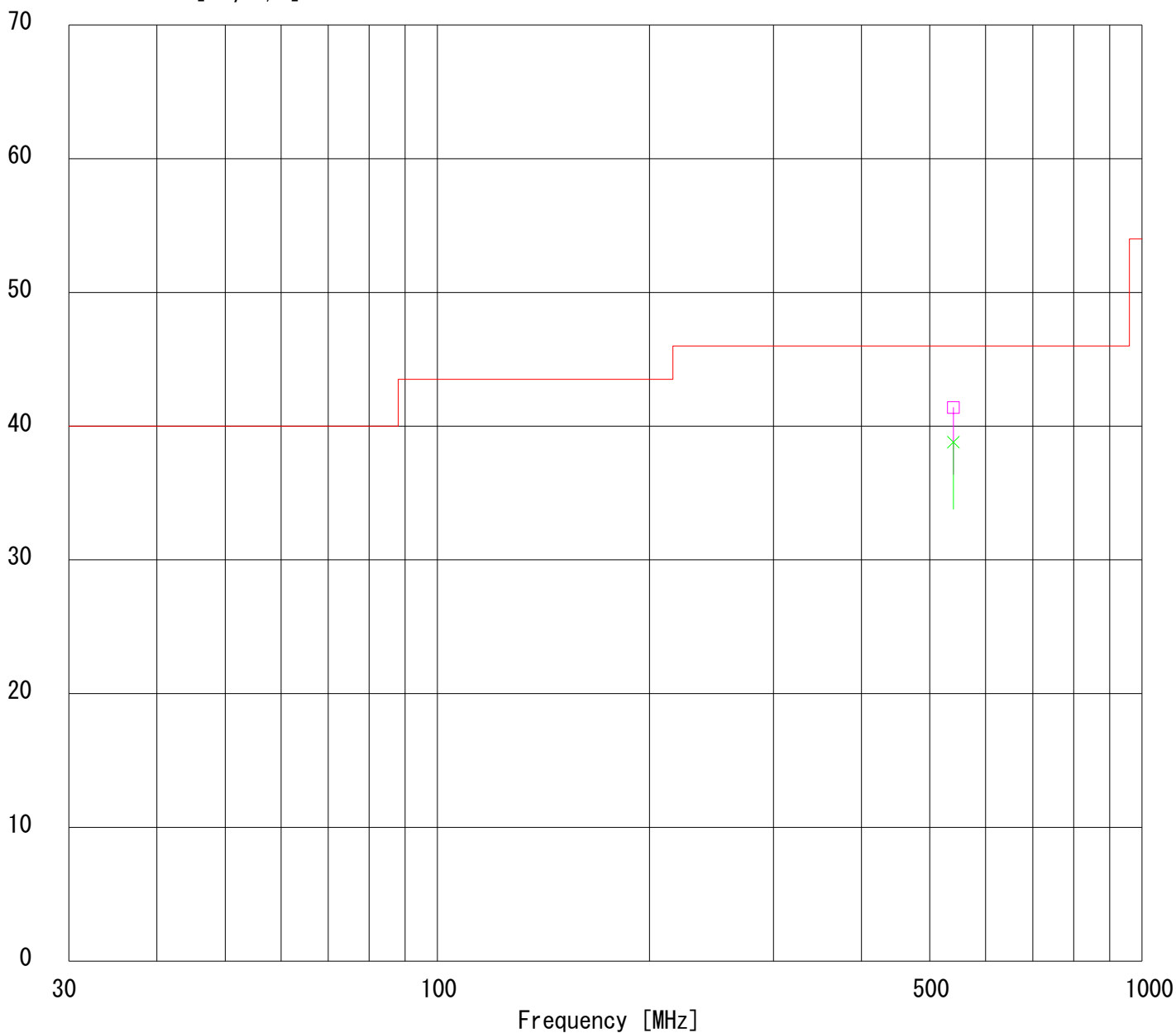
Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Recorder with Video Cassette Recorder
Model No. : D-VR5SU
Serial No. : -
Power : AC120V/60Hz
Mode : AV Input1+Rec (1Vp-p)
Remarks : -
Date : 3/14/2006
Test Distance : 3 m
Temperature : 23 °C
Humidity : 65 %
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama

Emission Level [dB μ V/m]

□ Horizontal

× Vertical



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Temperature : 23 °C Engineer : Toshifumi Yoneshige
Humidity : 65 %
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.	1349.99	BB	37.8	36.2	24.2	39.5	4.3	0.0	26.8	25.2	54.0	27.2	28.8

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

Except for the above table: adequate margin data below the limits.
ANT TYPE:1-5GHz Horn

DATA OF RADIATION TEST

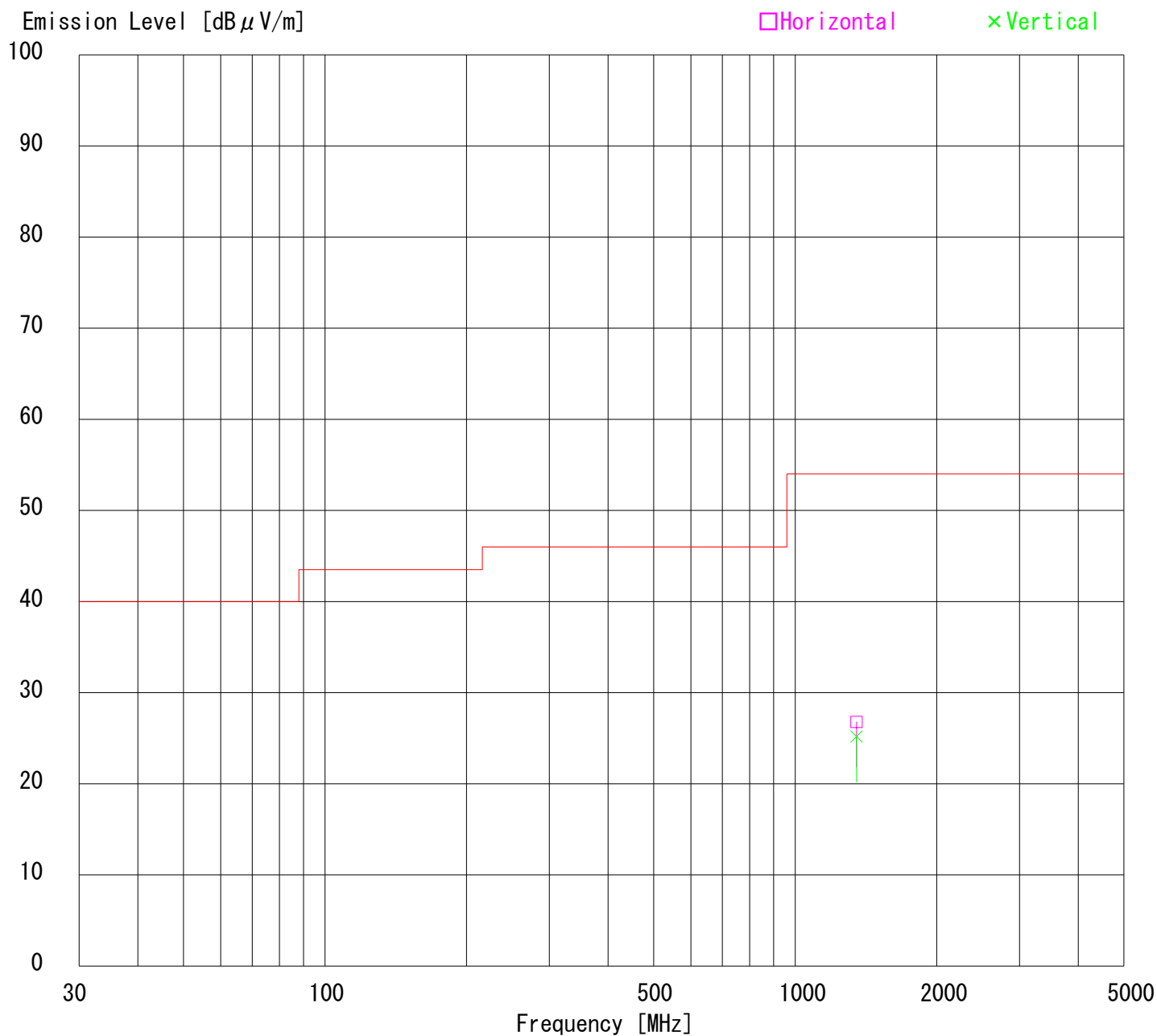
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Power : AC120V/60Hz
Mode : AV Input1+Rec (1Vp-p)
Remarks : -
Date : 3/15/2006
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Temperature : 23 °C
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Regulation : FCC Part15B CLASS B (Peak Limit / Upper1GHz)

Engineer : Toshifumi Yoneshige

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.	1349.99	BB	53.0	57.0	24.2	39.5	4.3	0.0	42.0	46.0	74.0	32.0	28.0

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

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ANT TYPE:1-5GHz Horn

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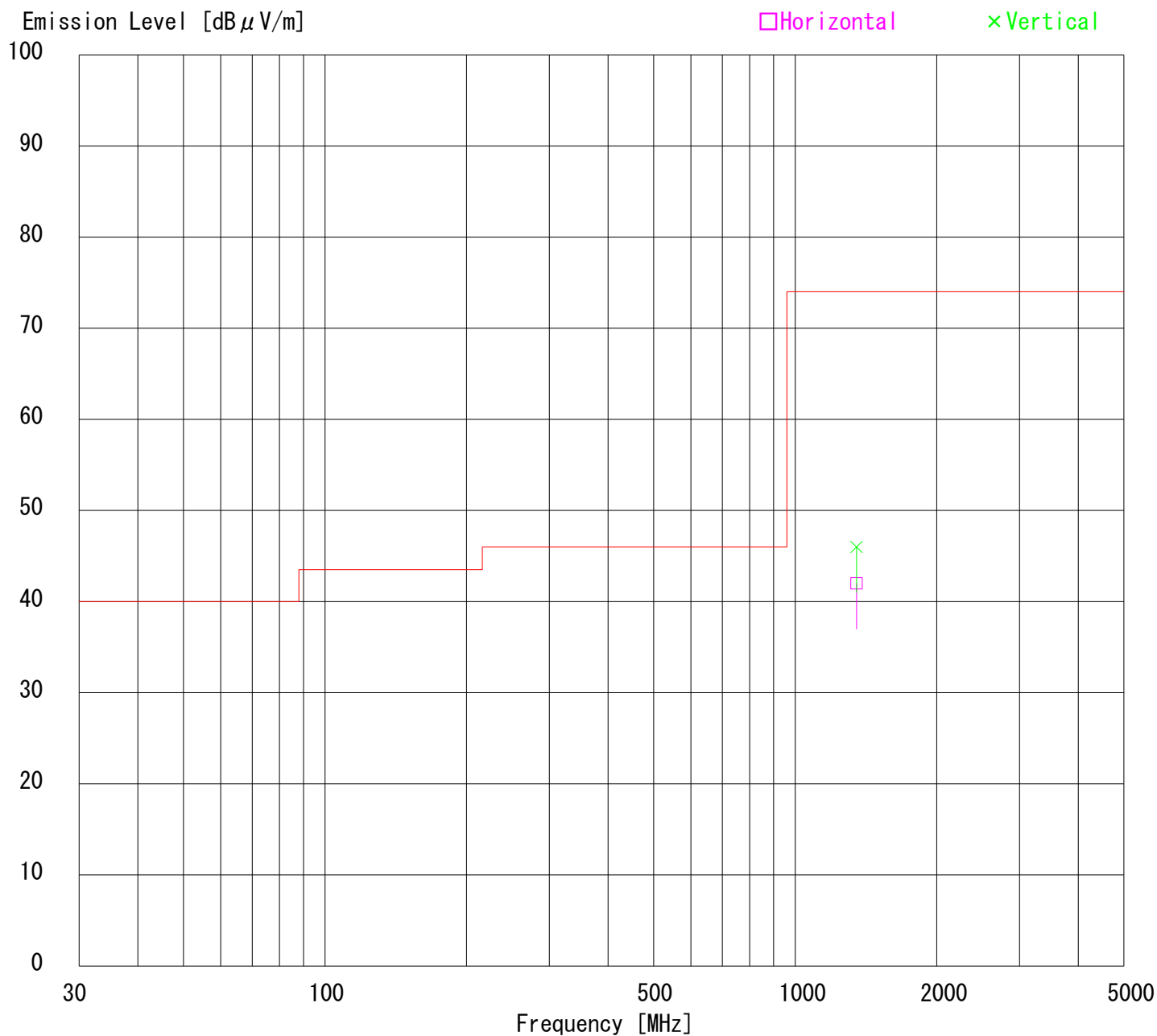
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Serial No. : -
Power : AC120V/60Hz
Mode : AV Input1+Rec (1Vp-p)
Remarks : -
Date : 3/15/2006
Test Distance : 3 m
Temperature : 23 °C
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Regulation : FCC Part15B CLASS B (Peak Limit / Upper1GHz)

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 Kind of Equipment : DVD Recorder with Video Cassette Recorder
 Model No. : D-VR5SU
 Serial No. : -
 Power : AC120V/60Hz
 Mode : AV Input1+Rec (5Vp-p)
 Remarks : -
 Date : 3/14/2006
 Test Distance : 3 m
 Temperature : 23 °C
 Humidity : 65 %
 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.	115.71	BB	31.2	31.3	13.0	28.0	2.2	5.8	24.2	24.3	43.5	19.3	19.2
2.	189.00	BB	32.0	26.0	16.9	27.9	3.0	5.8	29.8	23.8	43.5	13.7	19.7
3.	203.00	BB	35.1	28.2	17.2	27.8	3.1	5.8	33.4	26.5	43.5	10.1	17.0
4.	216.00	BB	36.3	29.6	17.4	27.8	3.2	5.8	34.9	28.2	43.5	8.6	15.3
5.	270.00	BB	36.7	31.8	18.7	27.8	3.7	5.8	37.1	32.2	46.0	8.9	13.8
6.	296.70	BB	35.6	32.5	19.9	27.8	3.9	5.8	37.4	34.3	46.0	8.6	11.7
7.	324.00	BB	39.0	36.2	17.0	27.9	4.1	5.9	38.1	35.3	46.0	7.9	10.7
8.	378.00	BB	39.0	33.6	18.1	27.9	4.5	5.9	39.6	34.2	46.0	6.4	11.8
9.	540.00	BB	37.6	35.1	20.3	27.9	5.5	5.9	41.4	38.9	46.0	4.6	7.1
10.	648.00	BB	29.0	33.4	20.9	27.4	6.1	5.9	34.5	38.9	46.0	11.5	7.1
11.	674.99	BB	28.4	31.0	21.2	27.3	6.3	5.9	34.5	37.1	46.0	11.5	8.9
12.	741.84	BB	32.8	33.4	22.3	27.2	6.6	5.9	40.4	41.0	46.0	5.6	5.0
13.	810.00	BB	26.4	29.0	23.6	27.1	7.0	5.9	35.8	38.4	46.0	10.2	7.6
14.	913.41	BB	25.6	26.0	24.1	26.9	7.6	5.9	36.3	36.7	46.0	9.7	9.3
15.	945.00	BB	26.1	28.8	25.1	27.1	7.8	6.0	37.9	40.6	46.0	8.1	5.4

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

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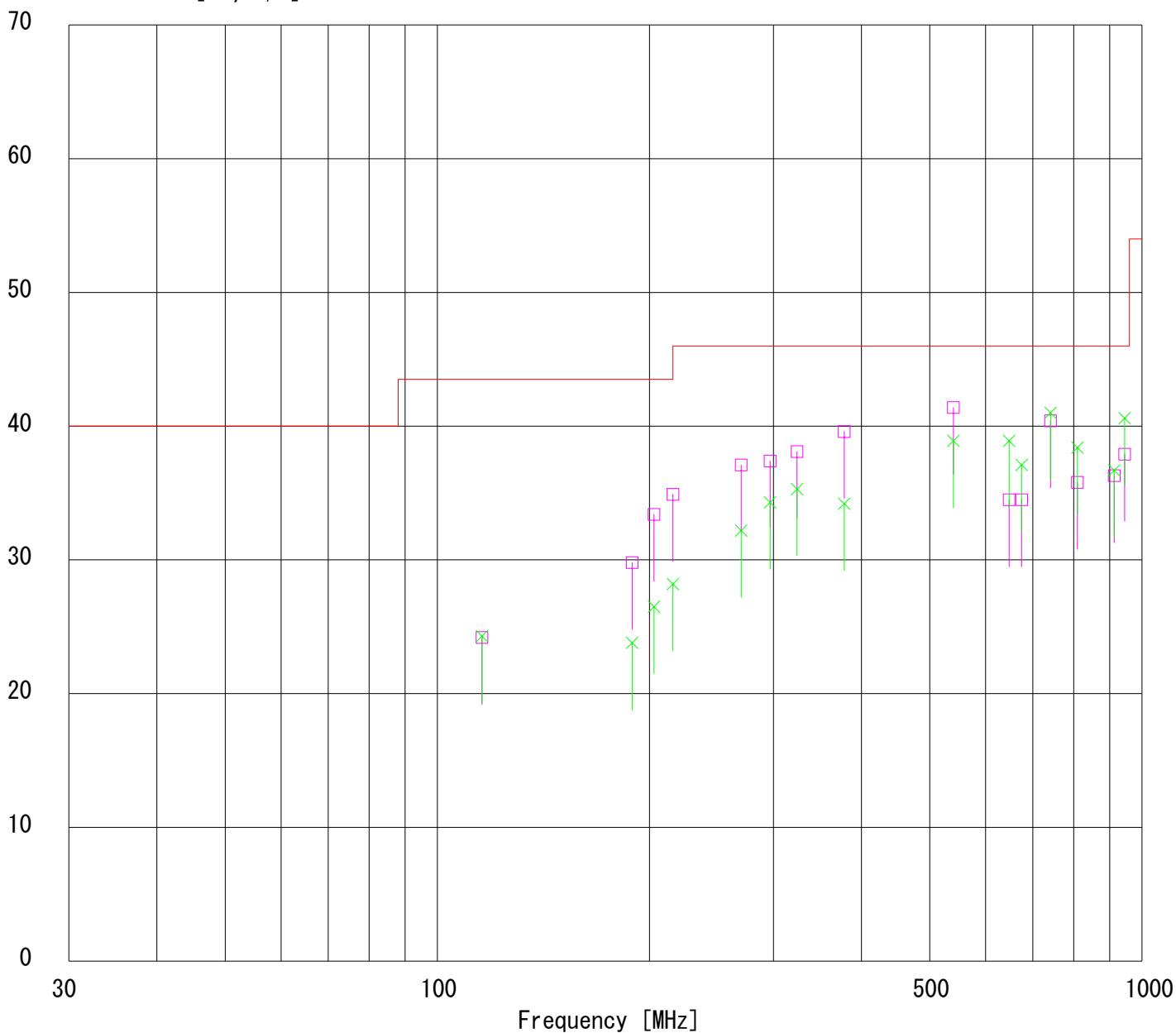
Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Recorder with Video Cassette Recorder
Model No. : D-VR5SU
Serial No. : -
Power : AC120V/60Hz
Mode : AV Input1+Rec (5Vp-p)
Remarks : -
Date : 3/14/2006
Test Distance : 3 m
Temperature : 23 °C
Humidity : 65 %
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama

Emission Level [dB μ V/m]

□ Horizontal

× Vertical



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Remarks : -
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Test Distance : 3 m
Temperature : 23 °C Engineer : Toshifumi Yoneshige
Humidity : 65 %
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.	1079.99	BB	45.8	47.9	24.0	39.9	4.0	0.0	33.9	36.0	54.0	20.1	18.0
2.	1249.99	BB	43.2	49.9	24.1	39.6	4.2	0.0	31.9	38.6	54.0	22.1	15.4
3.	1760.00	BB	38.0	36.3	24.4	38.8	4.8	0.0	28.4	26.7	54.0	25.6	27.3

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

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ANT TYPE: 1-5GHz Horn

DATA OF RADIATION TEST

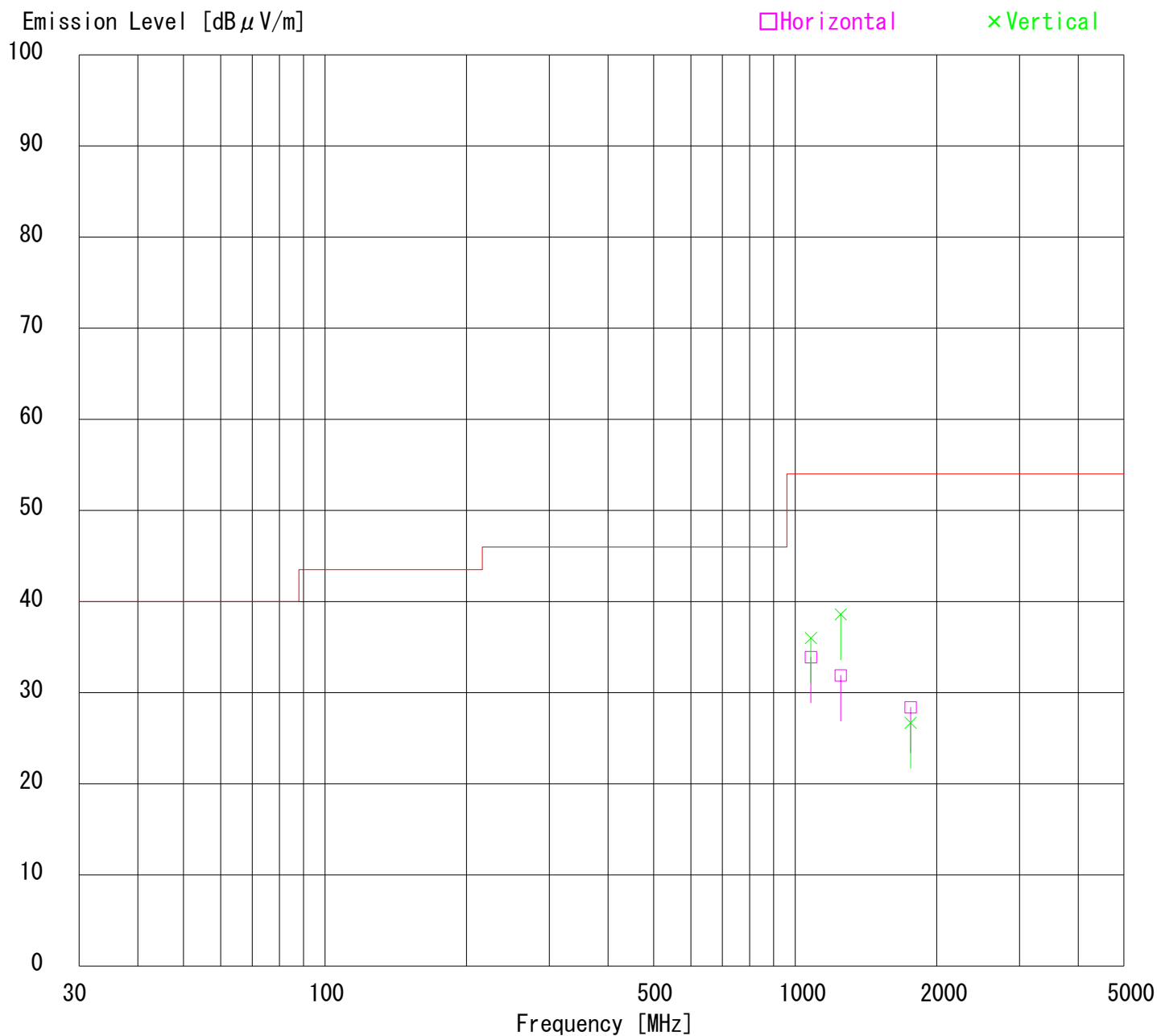
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Remarks : -
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No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]		HOR [dB]	VER [dB]
1.	1079.99	BB	51.8	53.3	24.0	39.9	4.0	0.0	39.9	41.4	74.0	34.1	32.6
2.	1249.99	BB	53.0	57.1	24.1	39.6	4.2	0.0	41.7	45.8	74.0	32.3	28.2
3.	1760.00	BB	49.1	48.5	24.4	38.8	4.8	0.0	39.5	38.9	74.0	34.5	35.1

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

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ANT TYPE: 1-5GHz Horn

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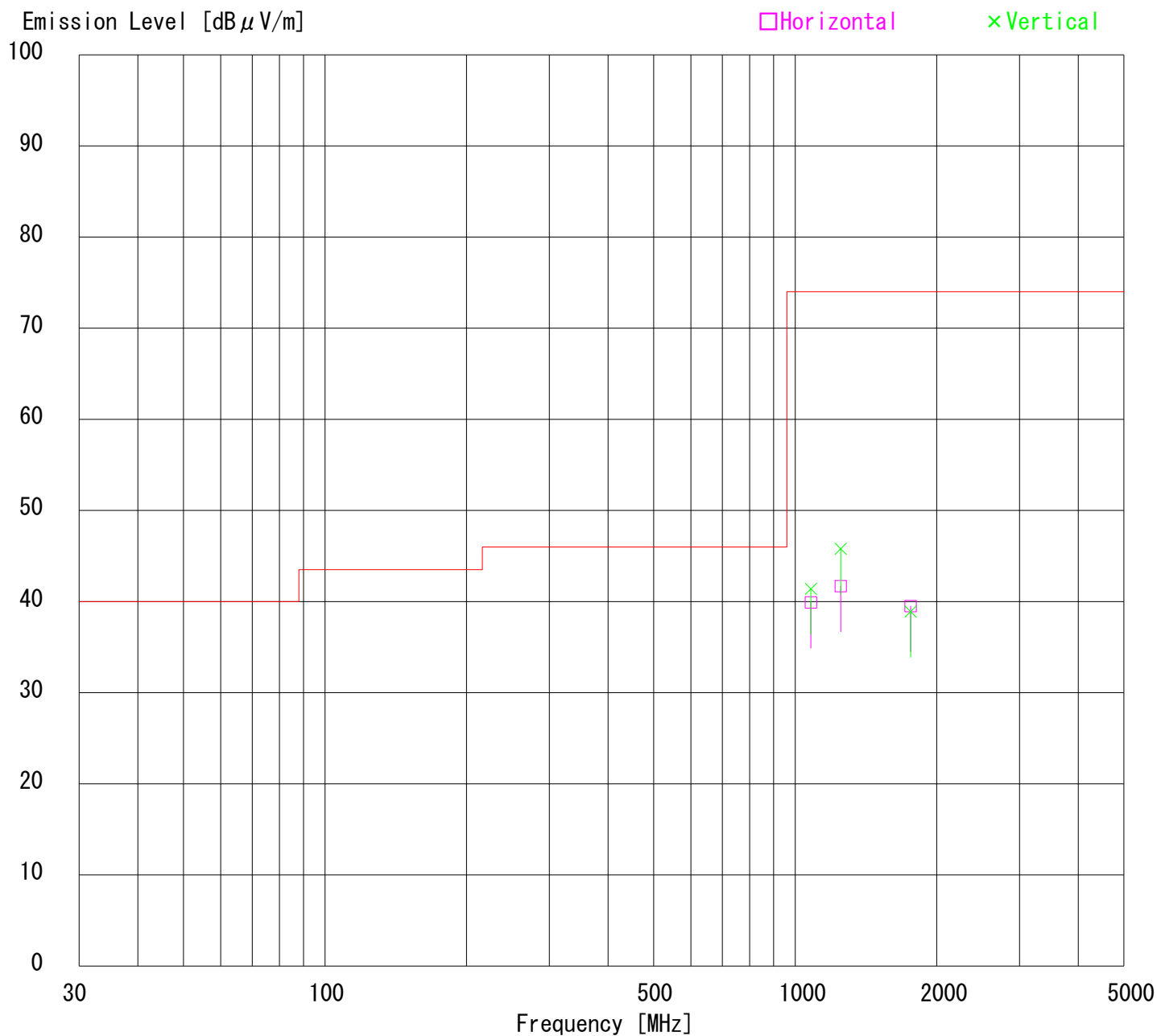
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Humidity : 65 %
Regulation : FCC Part15B CLASS B

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.	540.00	BB	37.5	34.5	20.3	27.9	5.5	5.9	41.3	38.3	46.0	4.7	7.7

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

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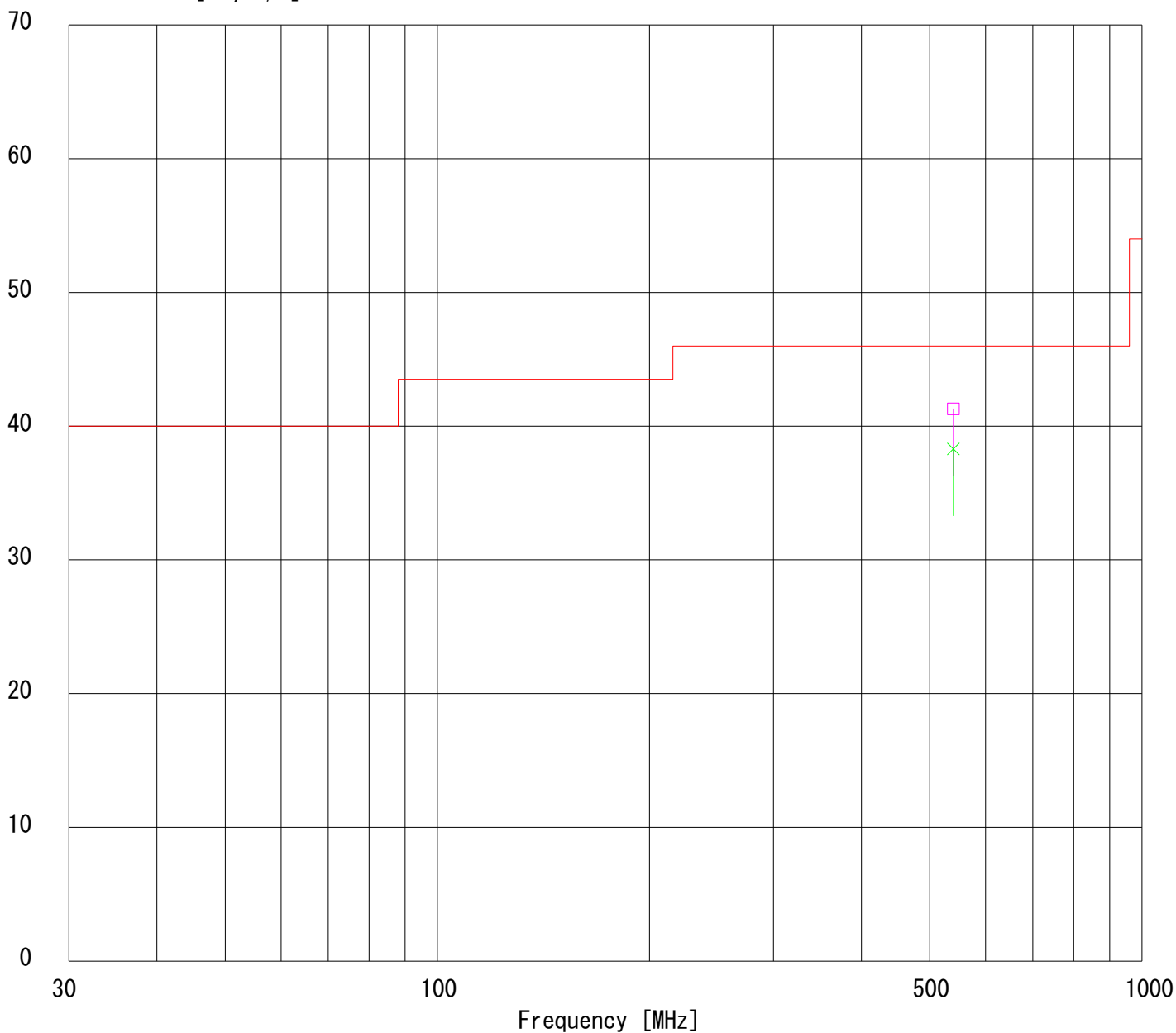
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Emission Level [dB μ V/m]

□ 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.	1484.99	BB	40.4	50.0	24.3	39.3	4.5	0.0	29.9	39.5	54.0	24.1	14.5

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

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ANT TYPE:1-5GHz Horn

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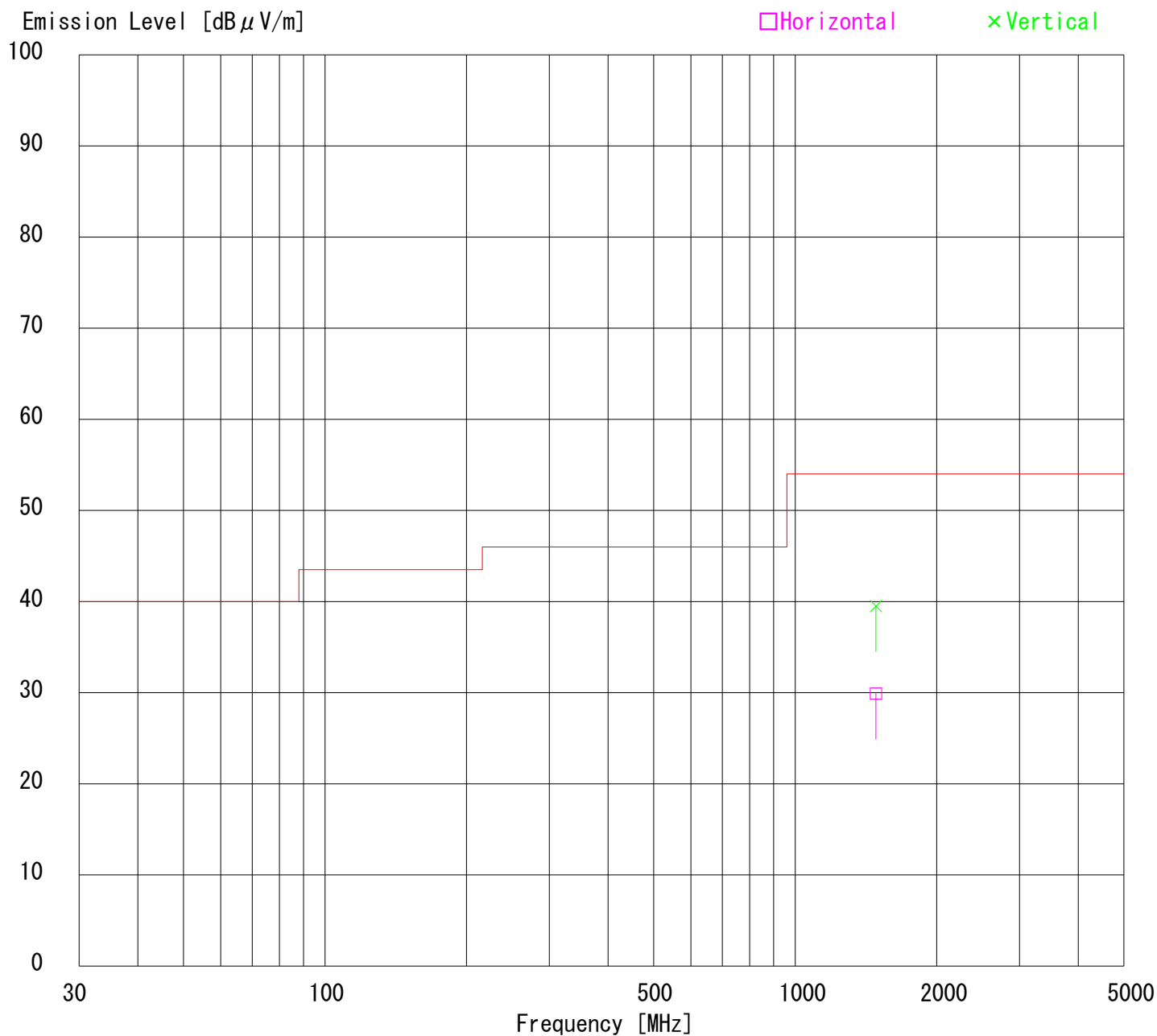
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1.	1484.99	BB	51.8	57.4	24.3	39.3	4.5	0.0	41.3	46.9	74.0	32.7	27.1

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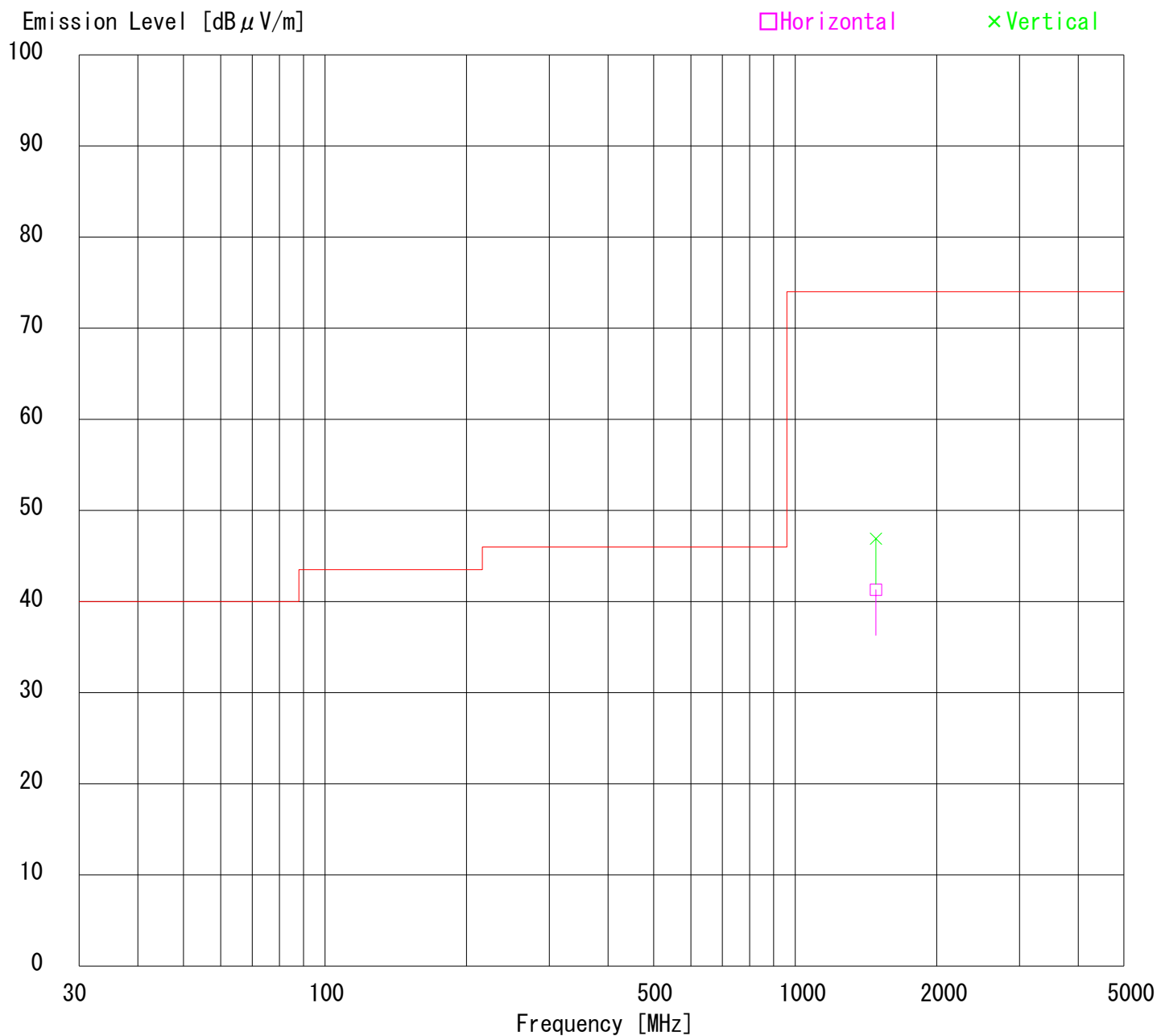
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No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER					HOR [dB μ V/m]	VER		HOR [dB]	VER
1.	115.72	BB	31.0	31.1	13.0	28.0	2.2	5.8	24.0	24.1	43.5	19.5	19.4
2.	189.01	BB	32.2	26.3	16.9	27.9	3.0	5.8	30.0	24.1	43.5	13.5	19.4
3.	203.00	BB	35.6	28.2	17.2	27.8	3.1	5.8	33.9	26.5	43.5	9.6	17.0
4.	216.00	BB	36.7	29.4	17.4	27.8	3.2	5.8	35.3	28.0	43.5	8.2	15.5
5.	270.00	BB	36.5	32.0	18.7	27.8	3.7	5.8	36.9	32.4	46.0	9.1	13.6
6.	296.70	BB	36.0	33.0	19.9	27.8	3.9	5.8	37.8	34.8	46.0	8.2	11.2
7.	324.02	BB	39.2	36.5	17.0	27.9	4.1	5.9	38.3	35.6	46.0	7.7	10.4
8.	378.00	BB	39.0	34.0	18.1	27.9	4.5	5.9	39.6	34.6	46.0	6.4	11.4
9.	540.00	BB	37.5	34.9	20.3	27.9	5.5	5.9	41.3	38.7	46.0	4.7	7.3
10.	648.00	BB	29.4	33.4	20.9	27.4	6.1	5.9	34.9	38.9	46.0	11.1	7.1
11.	675.00	BB	28.3	31.1	21.2	27.3	6.3	5.9	34.4	37.2	46.0	11.6	8.8
12.	741.85	BB	33.0	33.3	22.3	27.2	6.6	5.9	40.6	40.9	46.0	5.4	5.1
13.	810.00	BB	26.3	29.2	23.6	27.1	7.0	5.9	35.7	38.6	46.0	10.3	7.4
14.	913.41	BB	26.0	25.8	24.1	26.9	7.6	5.9	36.7	36.5	46.0	9.3	9.5
15.	945.02	BB	26.0	28.8	25.1	27.1	7.8	6.0	37.8	40.6	46.0	8.2	5.4

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

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

DATA OF RADIATION TEST

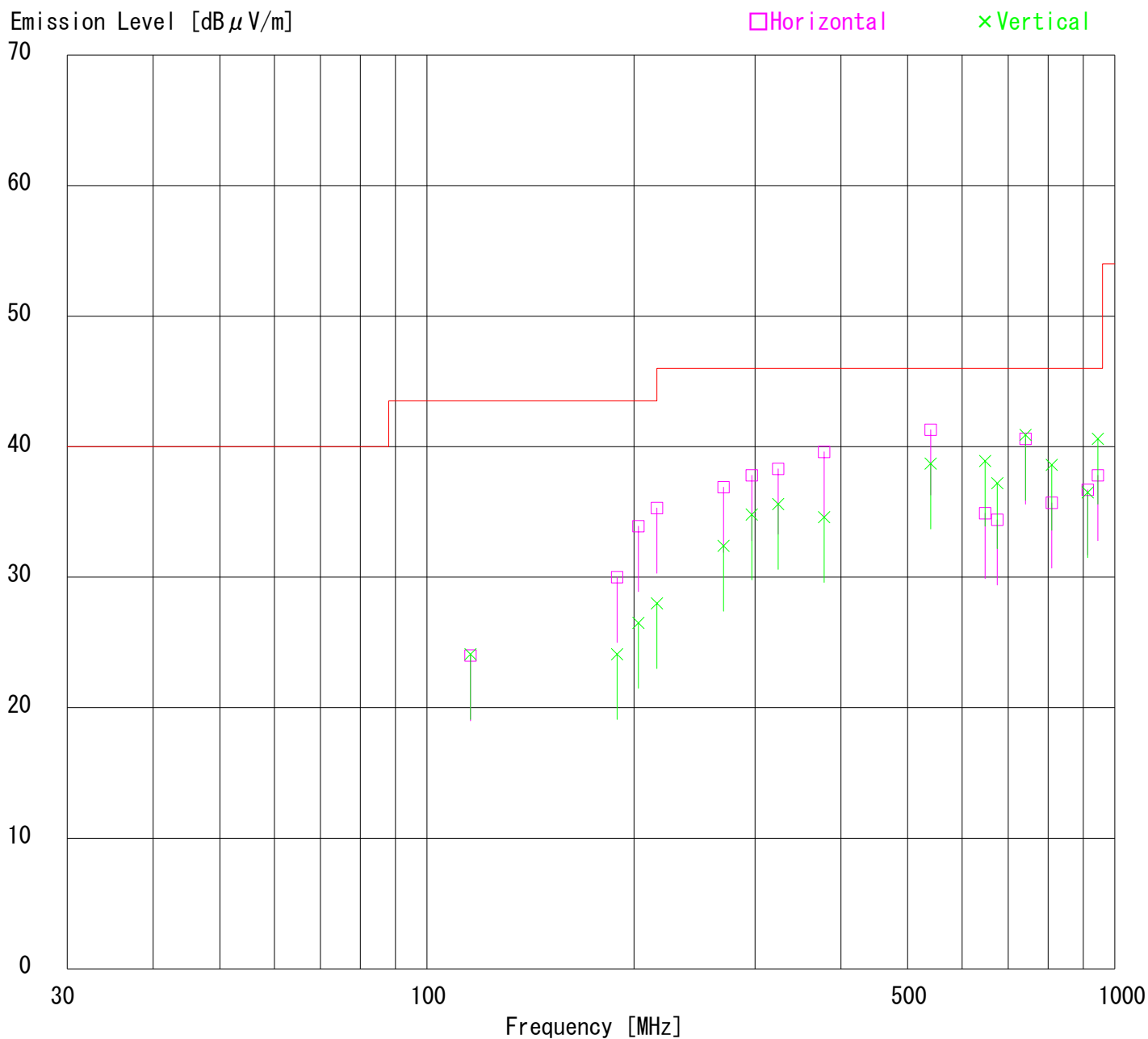
UL Apex Co., Ltd.

YOKOWA No.3 OPEN TEST SITE

Report No. : 26GE0303-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Recorder with Video Cassette Recorder
Model No. : D-VR5SU
Serial No. : -
Power : AC120V/60Hz
Mode : AV Input2+Rec (5Vp-p)
Remarks : -
Date : 3/14/2006
Test Distance : 3 m
Temperature : 23 °C
Humidity : 65 %
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama



DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.3 OPEN TEST SITE

Report No. : 26GE0303-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Recorder with Video Cassette Recorder
Model No. : D-VR5SU
Serial No. : -
Power : AC120V/60Hz
Mode : AV Input2+Rec (5Vp-p)
Remarks : -
Date : 3/15/2006
Test Distance : 3 m
Temperature : 23 °C Engineer : Toshifumi Yoneshige
Humidity : 65 %
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.	1014.90	BB	40.5	44.8	24.0	40.0	3.9	0.0	28.4	32.7	54.0	25.6	21.3
2.	1079.99	BB	45.1	47.5	24.0	39.9	4.0	0.0	33.2	35.6	54.0	20.8	18.4
3.	1349.99	BB	37.8	36.2	24.2	39.5	4.3	0.0	26.8	25.2	54.0	27.2	28.8
4.	1484.99	BB	41.4	50.2	24.3	39.3	4.5	0.0	30.9	39.7	54.0	23.1	14.3
5.	1619.99	BB	38.4	43.6	24.3	39.1	4.7	0.0	28.3	33.5	54.0	25.7	20.5

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

Except for the above table: adequate margin data below the limits.
ANT TYPE:1-5GHz Horn

DATA OF RADIATION TEST

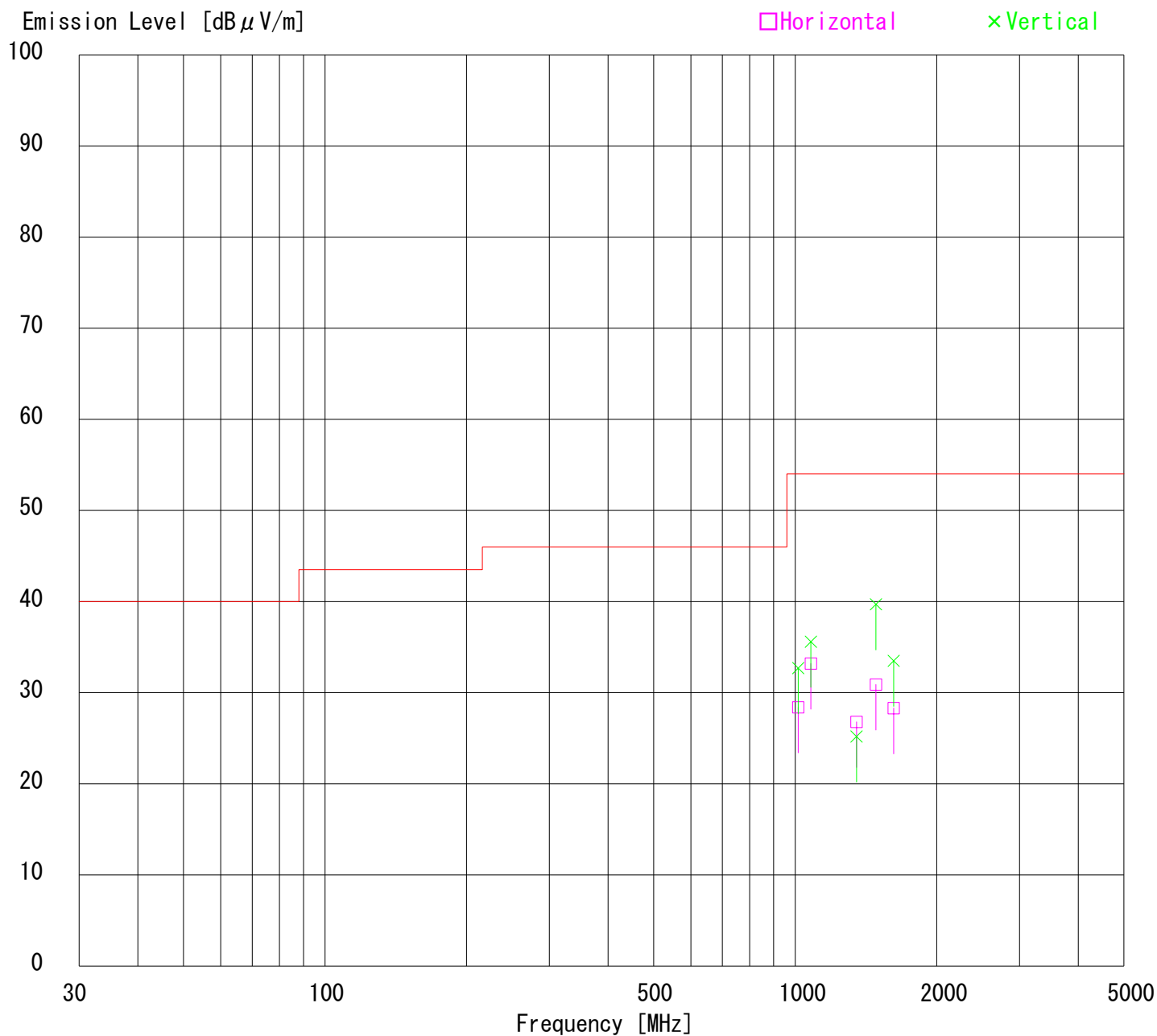
UL Apex Co., Ltd.

YOKOWA No.3 OPEN TEST SITE

Report No. : 26GE0303-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Recorder with Video Cassette Recorder
Model No. : D-VR5SU
Serial No. : -
Power : AC120V/60Hz
Mode : AV Input2+Rec (5Vp-p)
Remarks : -
Date : 3/15/2006
Test Distance : 3 m
Temperature : 23 °C
Humidity : 65 %
Regulation : FCC Part15B CLASS B (Average Limit / Upper1GHz)

Engineer : Toshifumi Yoneshige



DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.3 OPEN TEST SITE

Report No. : 26GE0303-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Recorder with Video Cassette Recorder
Model No. : D-VR5SU
Serial No. : -
Power : AC120V/60Hz
Mode : AV Input2+Rec (5Vp-p)
Remarks : -
Date : 3/15/2006
Test Distance : 3 m
Temperature : 23 °C Engineer : Toshifumi Yoneshige
Humidity : 65 %
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.	1014.90	BB	49.8	51.5	24.0	40.0	3.9	0.0	37.7	39.4	74.0	36.3	34.6
2.	1079.99	BB	50.5	53.4	24.0	39.9	4.0	0.0	38.6	41.5	74.0	35.4	32.5
3.	1349.99	BB	53.0	57.0	24.2	39.5	4.3	0.0	42.0	46.0	74.0	32.0	28.0
4.	1484.99	BB	52.0	57.7	24.3	39.3	4.5	0.0	41.5	47.2	74.0	32.5	26.8
5.	1619.99	BB	47.5	43.1	24.3	39.1	4.7	0.0	37.4	33.0	74.0	36.6	41.0

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

Except for the above table: adequate margin data below the limits.
ANT TYPE:1-5GHz Horn

DATA OF RADIATION TEST

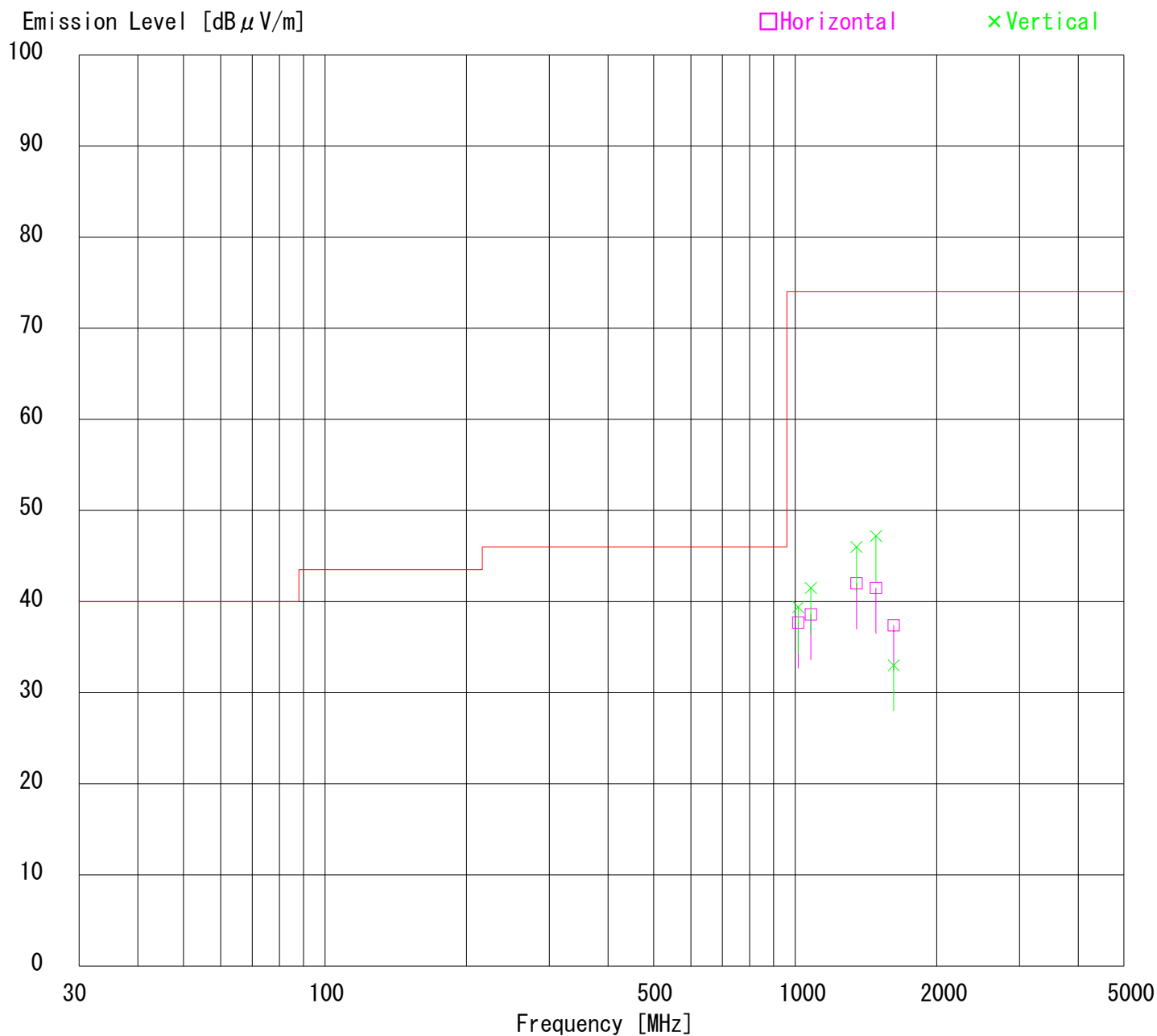
UL Apex Co., Ltd.

YOKOWA No.3 OPEN TEST SITE

Report No. : 26GE0303-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Recorder with Video Cassette Recorder
Model No. : D-VR5SU
Serial No. : -
Power : AC120V/60Hz
Mode : AV Input2+Rec (5Vp-p)
Remarks : -
Date : 3/15/2006
Test Distance : 3 m
Temperature : 23 °C
Humidity : 65 %
Regulation : FCC Part15B CLASS B (Peak Limit / Upper1GHz)

Engineer : Toshifumi Yoneshige



DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.3 OPEN TEST SITE

Report No. : 26GE0303-YW-1

Applicant : Orion Electric Co.,Ltd.
 Kind of Equipment : DVD Recorder with Video Cassette Recorder
 Model No. : D-VR5SU
 Serial No. : -
 Power : AC120V/60Hz
 Mode : i-Link+Rec
 Remarks : -
 Date : 3/14/2006
 Test Distance : 3 m
 Temperature : 23 °C
 Humidity : 65 %
 Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER					HOR [dB μ V/m]	VER		HOR [dB]	VER
1.	140.65	BB	41.2	34.4	15.0	27.9	2.5	5.8	36.6	29.8	43.5	6.9	13.7
2.	203.00	BB	35.5	29.0	17.2	27.8	3.1	5.8	33.8	27.3	43.5	9.7	16.2
3.	216.00	BB	41.8	37.8	17.4	27.8	3.2	5.8	40.4	36.4	43.5	3.1	7.1
4.	270.00	BB	33.5	31.3	18.7	27.8	3.7	5.8	33.9	31.7	46.0	12.1	14.3
5.	296.71	BB	33.7	35.5	19.9	27.8	3.9	5.8	35.5	37.3	46.0	10.5	8.7
6.	324.00	BB	44.0	41.8	17.0	27.9	4.1	5.9	43.1	40.9	46.0	2.9	5.1
7.	432.00	BB	34.0	29.8	19.0	28.0	4.8	5.9	35.7	31.5	46.0	10.3	14.5
8.	540.00	BB	37.6	35.5	20.3	27.9	5.5	5.9	41.4	39.3	46.0	4.6	6.7
9.	594.00	BB	30.7	32.0	20.5	27.7	5.8	5.9	35.2	36.5	46.0	10.8	9.5
10.	648.00	BB	34.7	37.7	20.9	27.4	6.1	5.9	40.2	43.2	46.0	5.8	2.8
11.	702.00	BB	32.7	33.3	21.4	27.2	6.4	5.9	39.2	39.8	46.0	6.8	6.2
12.	741.75	BB	35.5	34.5	22.3	27.2	6.6	5.9	43.1	42.1	46.0	2.9	3.9
13.	774.16	BB	30.0	26.2	23.0	27.2	6.8	5.9	38.5	34.7	46.0	7.5	11.3
14.	810.00	BB	27.5	30.0	23.6	27.1	7.0	5.9	36.9	39.4	46.0	9.1	6.6
15.	879.59	BB	25.1	27.6	23.6	26.9	7.4	5.9	35.1	37.6	46.0	10.9	8.4
16.	913.43	BB	24.3	25.7	24.1	26.9	7.6	5.9	35.0	36.4	46.0	11.0	9.6
17.	947.26	BB	23.0	24.5	25.2	27.1	7.8	6.0	34.9	36.4	46.0	11.1	9.6

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

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

DATA OF RADIATION TEST

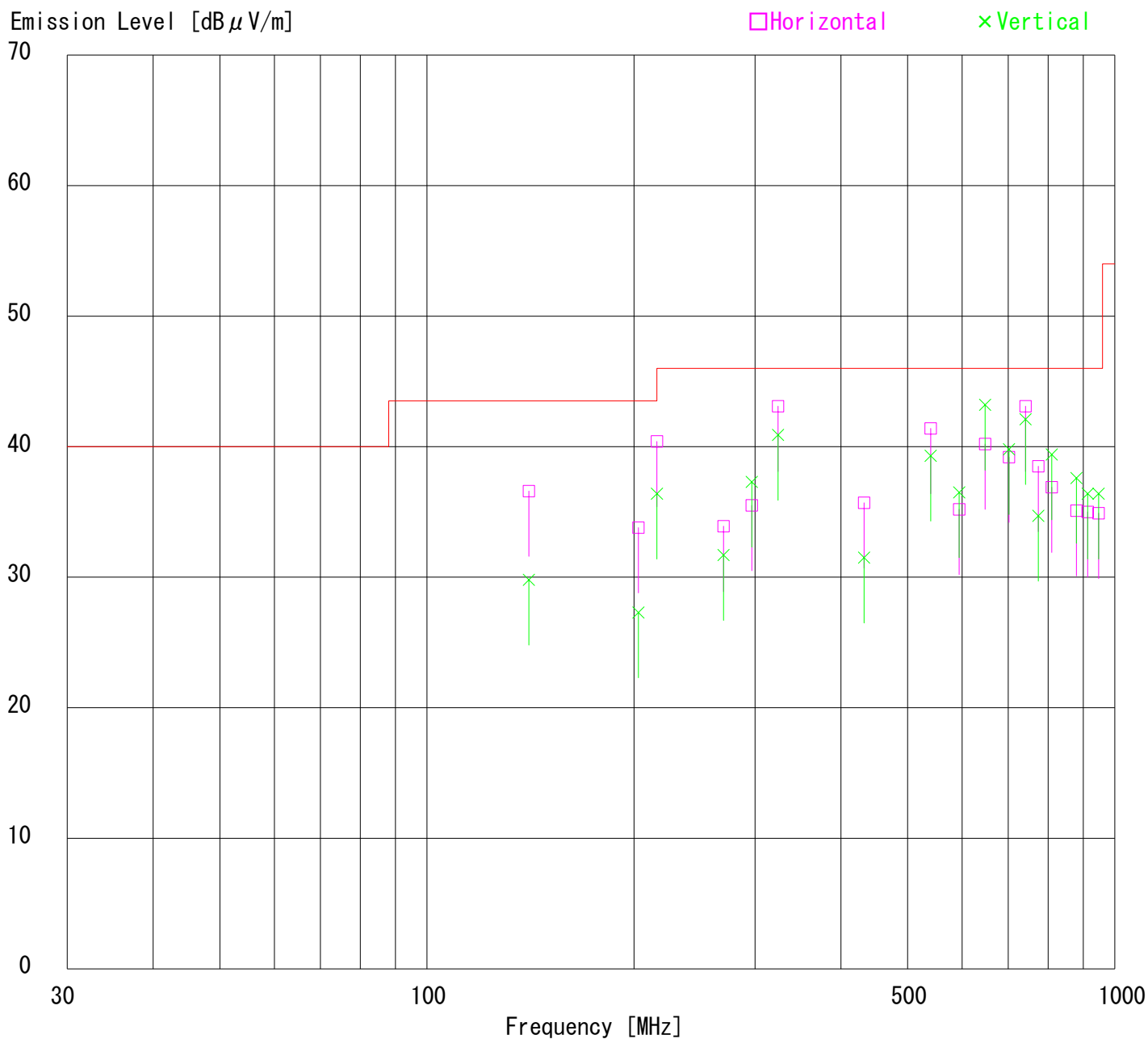
UL Apex Co., Ltd.

YOKOWA No.3 OPEN TEST SITE

Report No. : 26GE0303-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Recorder with Video Cassette Recorder
Model No. : D-VR5SU
Serial No. : -
Power : AC120V/60Hz
Mode : i-Link+Rec
Remarks : -
Date : 3/14/2006
Test Distance : 3 m
Temperature : 23 °C
Humidity : 65 %
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama



DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.3 OPEN TEST SITE

Report No. : 26GE0303-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Recorder with Video Cassette Recorder
Model No. : D-VR5SU
Serial No. : -
Power : AC120V/60Hz
Mode : i-Link+Rec
Remarks : -
Date : 3/15/2006
Test Distance : 3 m
Temperature : 23 °C Engineer : Toshifumi Yoneshige
Humidity : 65 %
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.	1079.99	BB	42.5	46.0	24.0	39.9	4.0	0.0	30.6	34.1	54.0	23.4	19.9
2.	1349.99	BB	42.9	45.7	24.2	39.5	4.3	0.0	31.9	34.7	54.0	22.1	19.3
3.	1760.00	BB	42.6	42.4	24.4	38.8	4.8	0.0	33.0	32.8	54.0	21.0	21.2

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

Except for the above table: adequate margin data below the limits.
ANT TYPE: 1-5GHz Horn

DATA OF RADIATION TEST

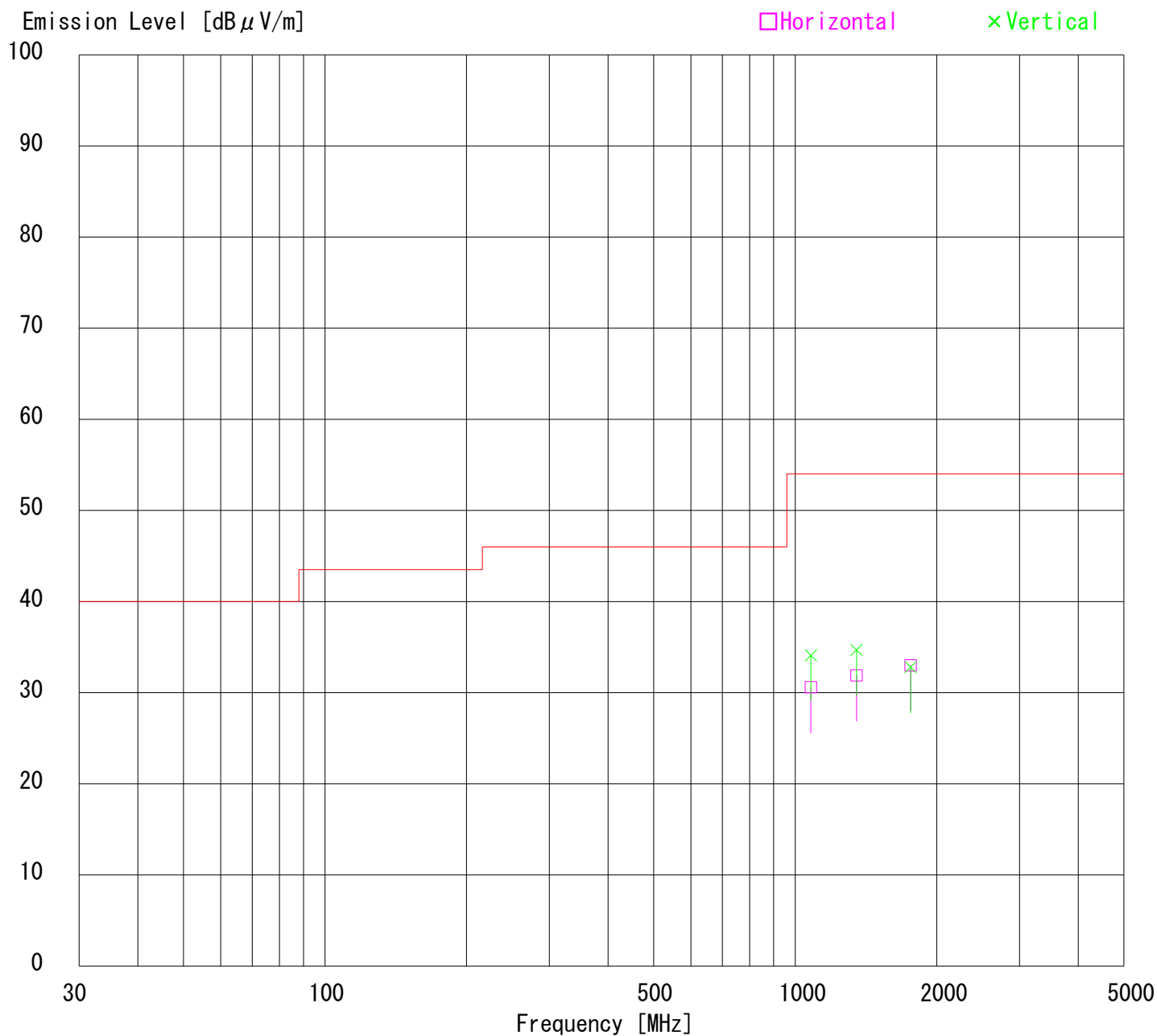
UL Apex Co., Ltd.

YOKOWA No.3 OPEN TEST SITE

Report No. : 26GE0303-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Recorder with Video Cassette Recorder
Model No. : D-VR5SU
Serial No. : -
Power : AC120V/60Hz
Mode : i-Link+Rec
Remarks : -
Date : 3/15/2006
Test Distance : 3 m
Temperature : 23 °C
Humidity : 65 %
Regulation : FCC Part15B CLASS B (Average Limit / Upper1GHz)

Engineer : Toshifumi Yoneshige



DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.3 OPEN TEST SITE

Report No. : 26GE0303-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Recorder with Video Cassette Recorder
Model No. : D-VR5SU
Serial No. : -
Power : AC120V/60Hz
Mode : i-Link+Rec
Remarks : -
Date : 3/15/2006
Test Distance : 3 m
Temperature : 23 °C Engineer : Toshifumi Yoneshige
Humidity : 65 %
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.	1079.99	BB	49.3	52.4	24.0	39.9	4.0	0.0	37.4	40.5	74.0	36.6	33.5
2.	1349.99	BB	49.5	48.2	24.2	39.5	4.3	0.0	38.5	37.2	74.0	35.5	36.8
3.	1760.00	BB	52.8	48.9	24.4	38.8	4.8	0.0	43.2	39.3	74.0	30.8	34.7

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

Except for the above table: adequate margin data below the limits.
ANT TYPE: 1-5GHz Horn

DATA OF RADIATION TEST

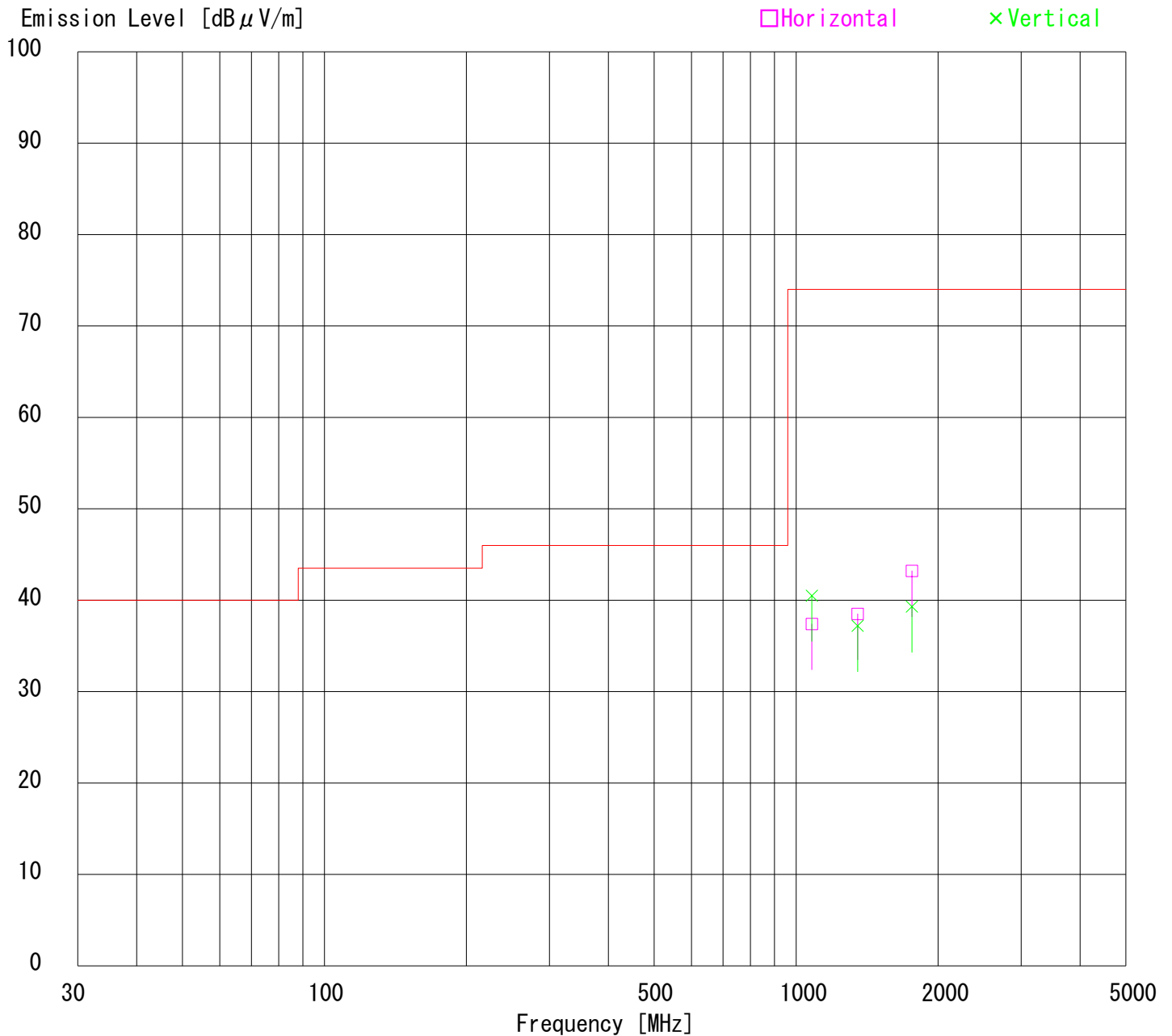
UL Apex Co., Ltd.

YOKOWA No.3 OPEN TEST SITE

Report No. : 26GE0303-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Recorder with Video Cassette Recorder
Model No. : D-VR5SU
Serial No. : -
Power : AC120V/60Hz
Mode : i-Link+Rec
Remarks : -
Date : 3/15/2006
Test Distance : 3 m
Temperature : 23 °C
Humidity : 65 %
Regulation : FCC Part15B CLASS B (Peak Limit / Upper1GHz)

Engineer : Toshifumi Yoneshige



DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.3 OPEN TEST SITE

Report No. : 26GE0303-YW-1

Applicant : Orion Electric Co.,Ltd.
 Kind of Equipment : DVD Recorder with Video Cassette Recorder
 Model No. : D-VR5SU
 Serial No. : -
 Power : AC120V/60Hz
 Mode : VCR+Rec
 Remarks : -
 Date : 3/14/2006
 Test Distance : 3 m
 Temperature : 23 °C
 Humidity : 65 %
 Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER					HOR [dB μ V/m]	VER		HOR [dB]	VER
1.	140.65	BB	32.0	31.5	15.0	27.9	2.5	5.8	27.4	26.9	43.5	16.1	16.6
2.	203.00	BB	33.3	28.2	17.2	27.8	3.1	5.8	31.6	26.5	43.5	11.9	17.0
3.	216.00	BB	31.0	31.0	17.4	27.8	3.2	5.8	29.6	29.6	43.5	13.9	13.9
4.	270.00	BB	36.7	34.0	18.7	27.8	3.7	5.8	37.1	34.4	46.0	8.9	11.6
5.	296.71	BB	34.0	37.0	19.9	27.8	3.9	5.8	35.8	38.8	46.0	10.2	7.2
6.	324.00	BB	43.0	41.2	17.0	27.9	4.1	5.9	42.1	40.3	46.0	3.9	5.7
7.	432.00	BB	36.2	31.2	19.0	28.0	4.8	5.9	37.9	32.9	46.0	8.1	13.1
8.	540.00	BB	37.2	35.1	20.3	27.9	5.5	5.9	41.0	38.9	46.0	5.0	7.1
9.	594.00	BB	30.3	31.4	20.5	27.7	5.8	5.9	34.8	35.9	46.0	11.2	10.1
10.	648.00	BB	33.0	37.1	20.9	27.4	6.1	5.9	38.5	42.6	46.0	7.5	3.4
11.	702.00	BB	30.0	34.2	21.4	27.2	6.4	5.9	36.5	40.7	46.0	9.5	5.3
12.	741.75	BB	33.3	36.0	22.3	27.2	6.6	5.9	40.9	43.6	46.0	5.1	2.4
13.	774.16	BB	29.0	25.5	23.0	27.2	6.8	5.9	37.5	34.0	46.0	8.5	12.0
14.	810.00	BB	26.5	29.0	23.6	27.1	7.0	5.9	35.9	38.4	46.0	10.1	7.6
15.	879.59	BB	23.5	26.0	23.6	26.9	7.4	5.9	33.5	36.0	46.0	12.5	10.0
16.	913.43	BB	24.0	27.5	24.1	26.9	7.6	5.9	34.7	38.2	46.0	11.3	7.8
17.	947.26	BB	23.5	24.0	25.2	27.1	7.8	6.0	35.4	35.9	46.0	10.6	10.1

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

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

DATA OF RADIATION TEST

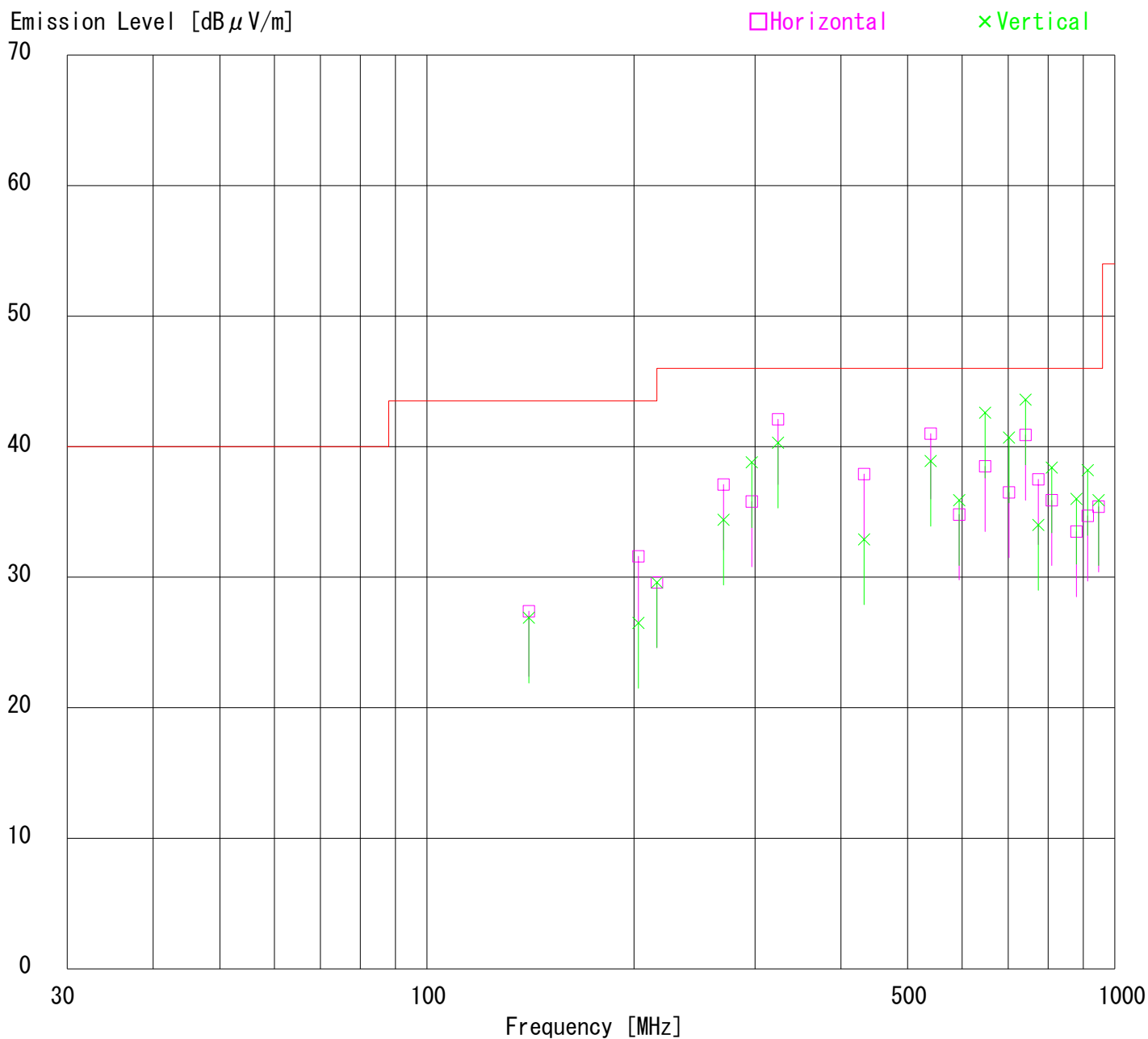
UL Apex Co., Ltd.

YOKOWA No.3 OPEN TEST SITE

Report No. : 26GE0303-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Recorder with Video Cassette Recorder
Model No. : D-VR5SU
Serial No. : -
Power : AC120V/60Hz
Mode : VCR+Rec
Remarks : -
Date : 3/14/2006
Test Distance : 3 m
Temperature : 23 °C
Humidity : 65 %
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama



DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.3 OPEN TEST SITE

Report No. : 26GE0303-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Recorder with Video Cassette Recorder
Model No. : D-VR5SU
Serial No. : -
Power : AC120V/60Hz
Mode : VCR+Rec
Remarks : -
Date : 3/15/2006
Test Distance : 3 m
Temperature : 23 °C Engineer : Toshifumi Yoneshige
Humidity : 65 %
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.	1079.99	BB	42.8	46.6	24.0	39.9	4.0	0.0	30.9	34.7	54.0	23.1	19.3
2.	1484.99	BB	39.9	47.3	24.3	39.3	4.5	0.0	29.4	36.8	54.0	24.6	17.2
3.	1484.99	BB	39.5	49.8	24.3	39.3	4.5	0.0	29.0	39.3	54.0	25.0	14.7
4.	1619.99	BB	36.8	45.3	24.3	39.1	4.7	0.0	26.7	35.2	54.0	27.3	18.8

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

Except for the above table: adequate margin data below the limits.
ANT TYPE: 1-5GHz Horn

DATA OF RADIATION TEST

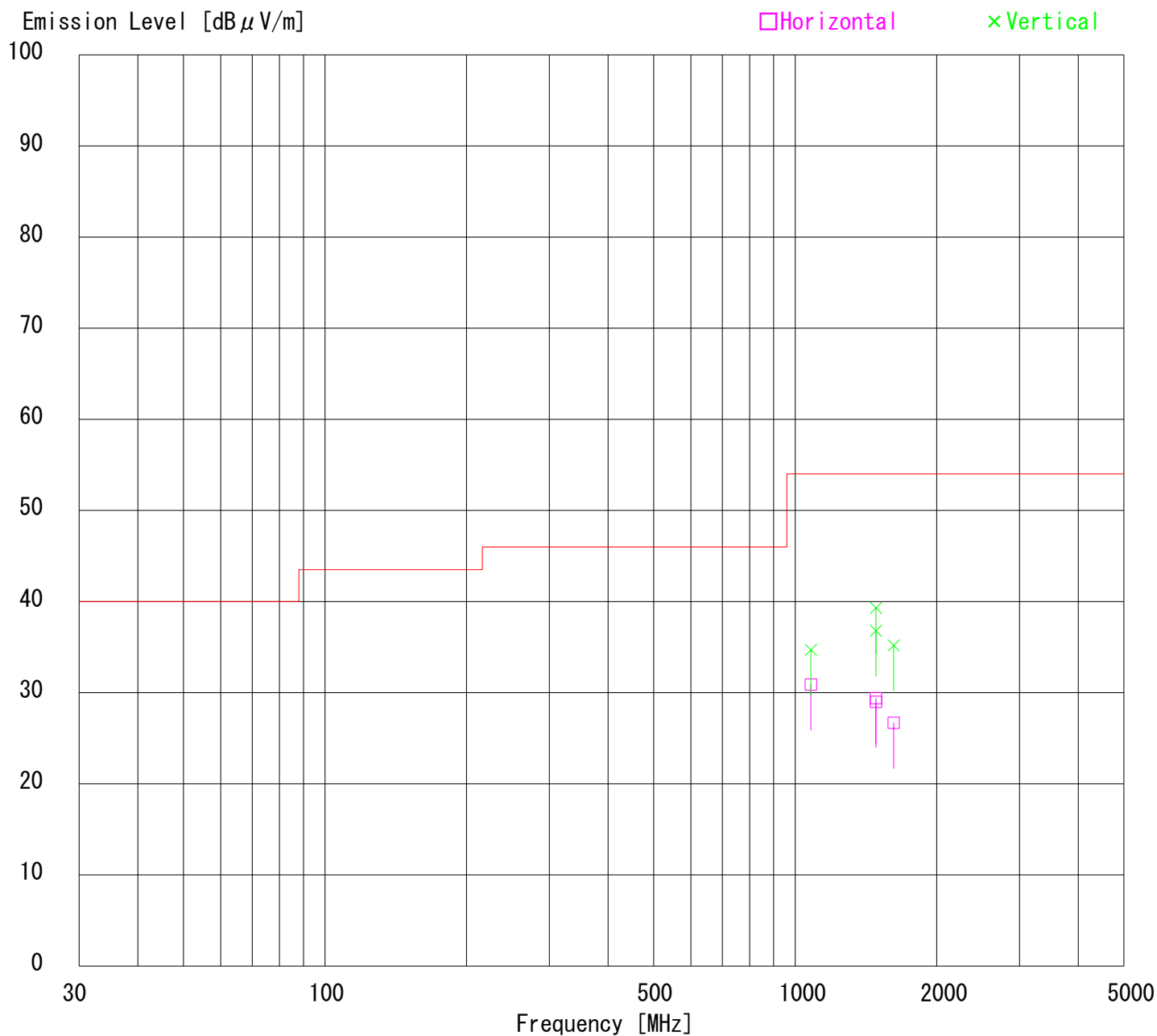
UL Apex Co., Ltd.

YOKOWA No.3 OPEN TEST SITE

Report No. : 26GE0303-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Recorder with Video Cassette Recorder
Model No. : D-VR5SU
Serial No. : -
Power : AC120V/60Hz
Mode : VCR+Rec
Remarks : -
Date : 3/15/2006
Test Distance : 3 m
Temperature : 23 °C
Humidity : 65 %
Regulation : FCC Part15B CLASS B (Average Limit / Upper1GHz)

Engineer : Toshifumi Yoneshige



DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.3 OPEN TEST SITE

Report No. : 26GE0303-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Recorder with Video Cassette Recorder
Model No. : D-VR5SU
Serial No. : -
Power : AC120V/60Hz
Mode : VCR+Rec
Remarks : -
Date : 3/15/2006
Test Distance : 3 m
Temperature : 23 °C Engineer : Toshifumi Yoneshige
Humidity : 65 %
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.	1079.99	BB	49.3	53.3	24.0	39.9	4.0	0.0	37.4	41.4	74.0	36.6	32.6
2.	1484.99	BB	49.3	59.5	24.3	39.3	4.5	0.0	38.8	49.0	74.0	35.2	25.0
3.	1484.99	BB	49.3	59.5	24.3	39.3	4.5	0.0	38.8	49.0	74.0	35.2	25.0
4.	1619.99	BB	48.6	52.5	24.3	39.1	4.7	0.0	38.5	42.4	74.0	35.5	31.6

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

Except for the above table: adequate margin data below the limits.
ANT TYPE: 1-5GHz Horn

DATA OF RADIATION TEST

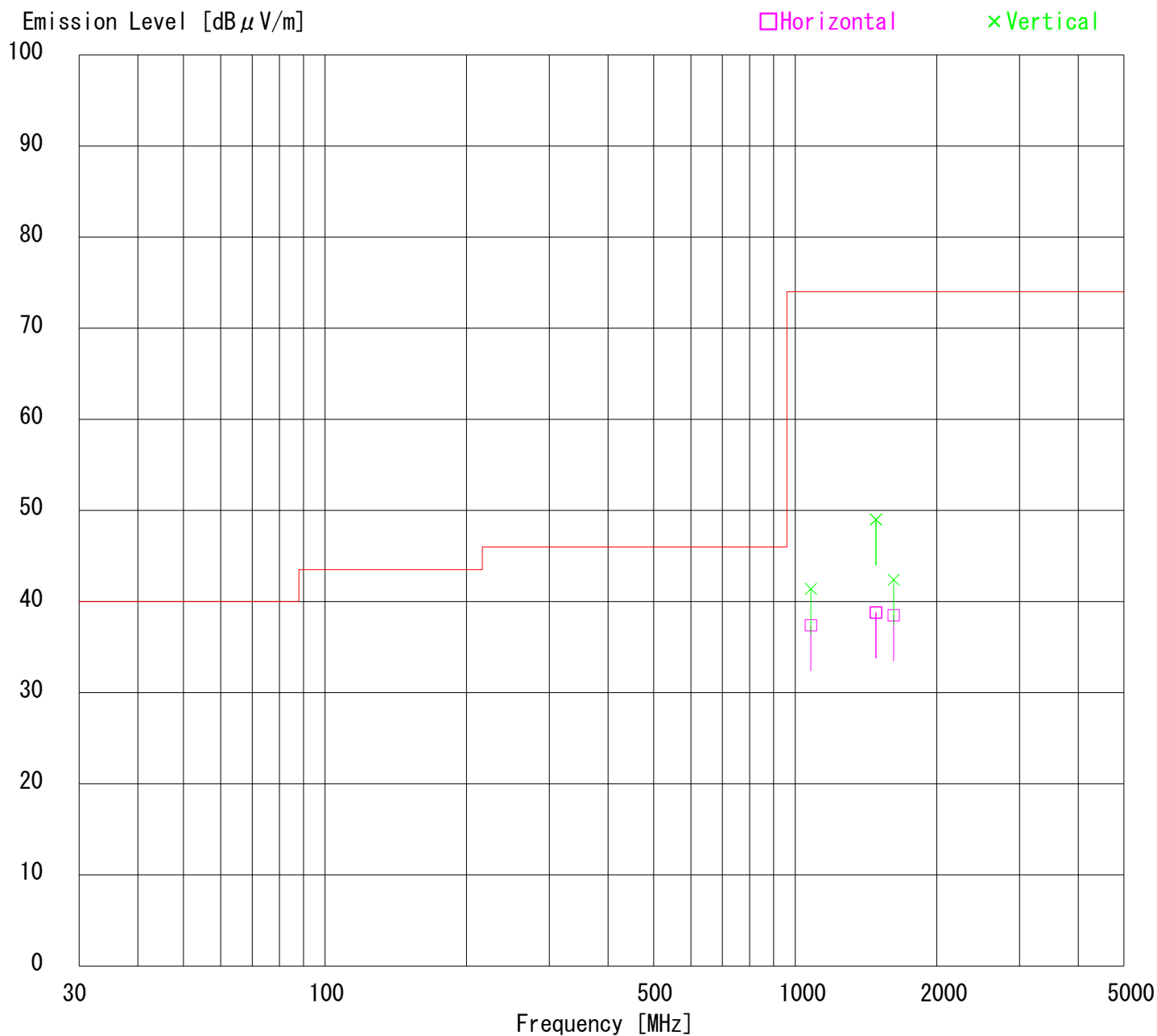
UL Apex Co., Ltd.

YOKOWA No.3 OPEN TEST SITE

Report No. : 26GE0303-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Recorder with Video Cassette Recorder
Model No. : D-VR5SU
Serial No. : -
Power : AC120V/60Hz
Mode : VCR+Rec
Remarks : -
Date : 3/15/2006
Test Distance : 3 m
Temperature : 23 °C
Humidity : 65 %
Regulation : FCC Part15B CLASS B (Peak Limit / Upper1GHz)

Engineer : Toshifumi Yoneshige



DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.3 OPEN TEST SITE

Report No. : 26GE0303-YW-1

Applicant : Orion Electric Co.,Ltd.
 Kind of Equipment : DVD Recorder with Video Cassette Recorder
 Model No. : D-VR5SU
 Serial No. : -
 Power : AC120V/60Hz
 Mode : DVD+Rec (HDMI)
 Remarks : -
 Date : 3/14/2006
 Test Distance : 3 m
 Temperature : 23 °C
 Humidity : 65 %
 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.	140.65	BB	42.3	32.7	15.0	27.9	2.5	5.8	37.7	28.1	43.5	5.8	15.4
2.	203.00	BB	36.8	28.5	17.2	27.8	3.1	5.8	35.1	26.8	43.5	8.4	16.7
3.	216.00	BB	37.5	32.0	17.4	27.8	3.2	5.8	36.1	30.6	43.5	7.4	12.9
4.	270.00	BB	34.8	29.8	18.7	27.8	3.7	5.8	35.2	30.2	46.0	10.8	15.8
5.	296.71	BB	34.2	37.2	19.9	27.8	3.9	5.8	36.0	39.0	46.0	10.0	7.0
6.	324.00	BB	44.0	43.2	17.0	27.9	4.1	5.9	43.1	42.3	46.0	2.9	3.7
7.	432.00	BB	34.4	31.2	19.0	28.0	4.8	5.9	36.1	32.9	46.0	9.9	13.1
8.	540.00	BB	37.0	36.6	20.3	27.9	5.5	5.9	40.8	40.4	46.0	5.2	5.6
9.	594.00	BB	30.7	32.5	20.5	27.7	5.8	5.9	35.2	37.0	46.0	10.8	9.0
10.	648.00	BB	36.0	37.7	20.9	27.4	6.1	5.9	41.5	43.2	46.0	4.5	2.8
11.	702.00	BB	33.5	35.6	21.4	27.2	6.4	5.9	40.0	42.1	46.0	6.0	3.9
12.	741.75	BB	34.8	34.3	22.3	27.2	6.6	5.9	42.4	41.9	46.0	3.6	4.1
13.	774.16	BB	30.2	26.1	23.0	27.2	6.8	5.9	38.7	34.6	46.0	7.3	11.4
14.	810.00	BB	28.4	28.9	23.6	27.1	7.0	5.9	37.8	38.3	46.0	8.2	7.7
15.	879.59	BB	25.1	27.6	23.6	26.9	7.4	5.9	35.1	37.6	46.0	10.9	8.4
16.	913.43	BB	24.0	26.0	24.1	26.9	7.6	5.9	34.7	36.7	46.0	11.3	9.3
17.	947.26	BB	23.0	24.5	25.2	27.1	7.8	6.0	34.9	36.4	46.0	11.1	9.6

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. : 26GE0303-YW-1

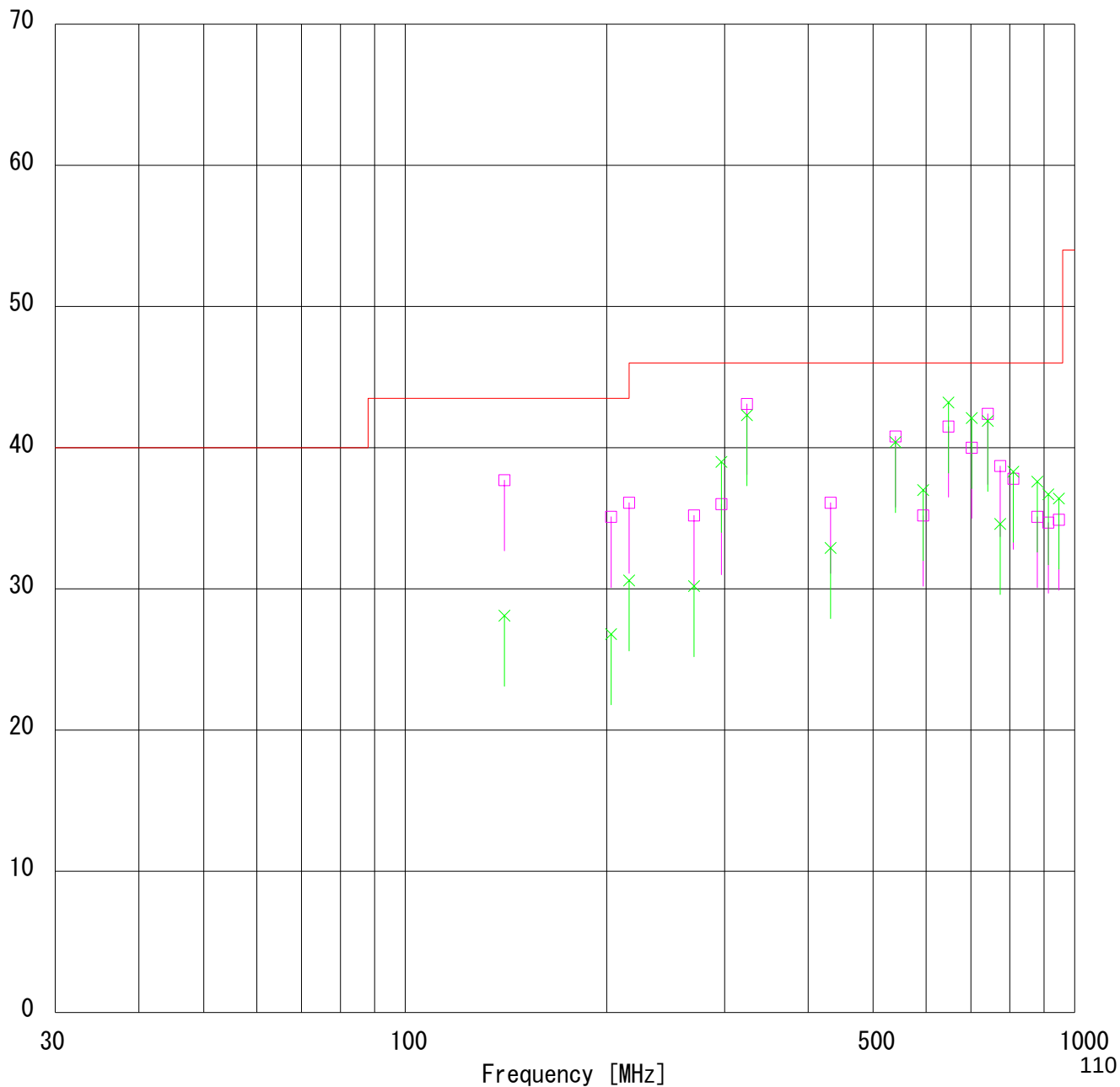
Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Recorder with Video Cassette Recorder
Model No. : D-VR5SU
Serial No. : -
Power : AC120V/60Hz
Mode : DVD+Rec (HDMI)
Remarks : -
Date : 3/14/2006
Test Distance : 3 m
Temperature : 23 °C
Humidity : 65 %
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama

Emission Level [dB μ V/m]

□ Horizontal

× Vertical



DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.3 OPEN TEST SITE

Report No. : 26GE0303-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Recorder with Video Cassette Recorder
Model No. : D-VR5SU
Serial No. : -
Power : AC120V/60Hz
Mode : DVD+Rec (HDMI)
Remarks : -
Date : 3/15/2006
Test Distance : 3 m
Temperature : 23 °C Engineer : Toshifumi Yoneshige
Humidity : 65 %
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.	1079.99	BB	44.1	49.8	24.0	39.9	4.0	0.0	32.2	37.9	54.0	21.8	16.1
2.	1349.99	BB	44.8	49.4	24.2	39.5	4.3	0.0	33.8	38.4	54.0	20.2	15.6
3.	1619.99	BB	38.8	45.2	24.3	39.1	4.7	0.0	28.7	35.1	54.0	25.3	18.9

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

Except for the above table: adequate margin data below the limits.
ANT TYPE: 1-5GHz Horn

DATA OF RADIATION TEST

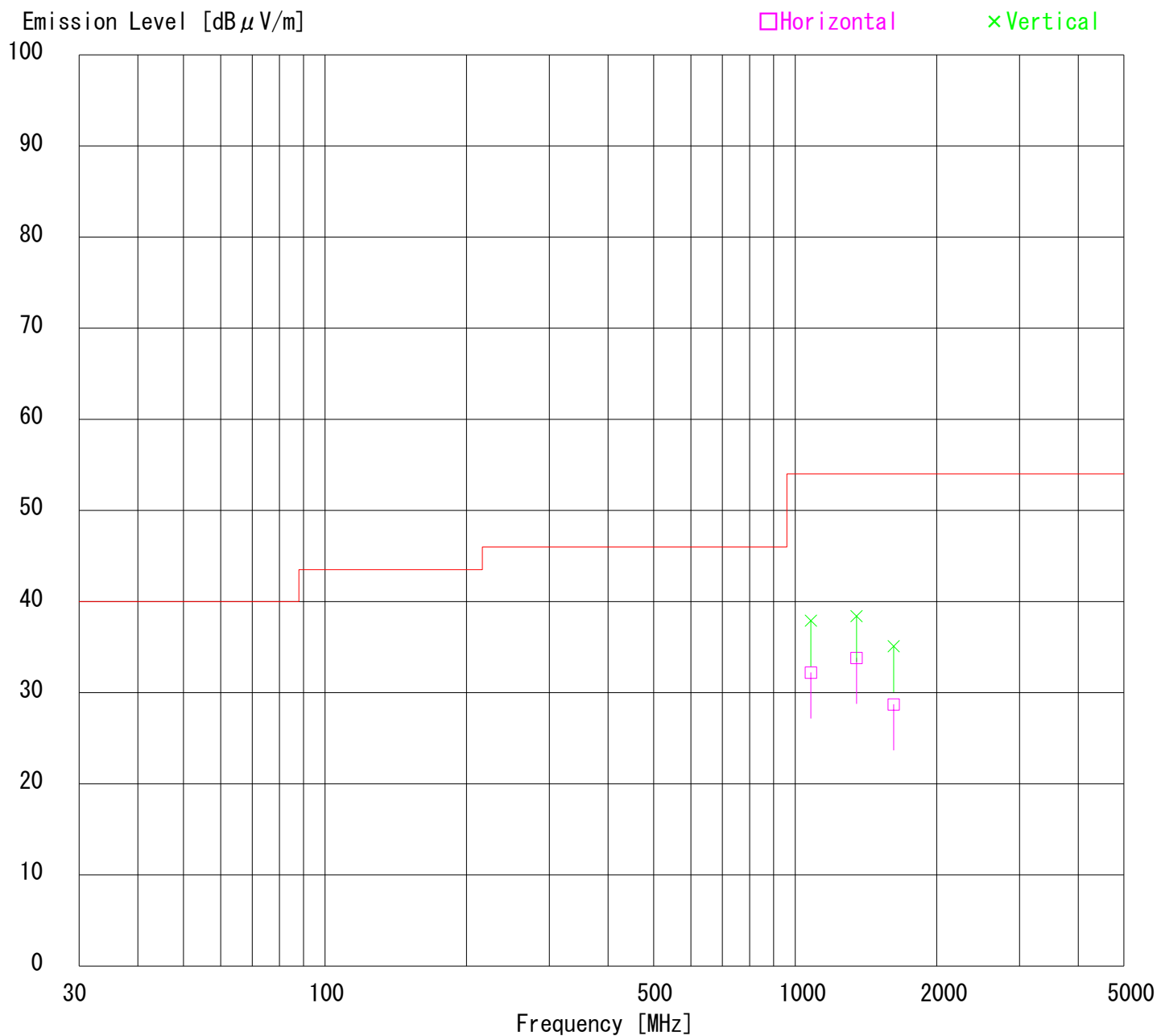
UL Apex Co., Ltd.

YOKOWA No.3 OPEN TEST SITE

Report No. : 26GE0303-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Recorder with Video Cassette Recorder
Model No. : D-VR5SU
Serial No. : -
Power : AC120V/60Hz
Mode : DVD+Rec (HDMI)
Remarks : -
Date : 3/15/2006
Test Distance : 3 m
Temperature : 23 °C
Humidity : 65 %
Regulation : FCC Part15B CLASS B (Average Limit / Upper1GHz)

Engineer : Toshifumi Yoneshige



DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.3 OPEN TEST SITE

Report No. : 26GE0303-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Recorder with Video Cassette Recorder
Model No. : D-VR5SU
Serial No. : -
Power : AC120V/60Hz
Mode : DVD+Rec (HDMI)
Remarks : -
Date : 3/15/2006
Test Distance : 3 m
Temperature : 23 °C
Humidity : 65 %
Regulation : FCC Part15B CLASS B (Peak Limit / Upper1GHz)

Engineer : Toshifumi Yoneshige

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.	1079.99	BB	50.1	52.5	24.0	39.9	4.0	0.0	38.2	40.6	74.0	35.8	33.4
2.	1349.99	BB	52.9	55.1	24.2	39.5	4.3	0.0	41.9	44.1	74.0	32.1	29.9
3.	1619.99	BB	49.4	51.4	24.3	39.1	4.7	0.0	39.3	41.3	74.0	34.7	32.7

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

Except for the above table: adequate margin data below the limits.
ANT TYPE: 1-5GHz Horn

DATA OF RADIATION TEST

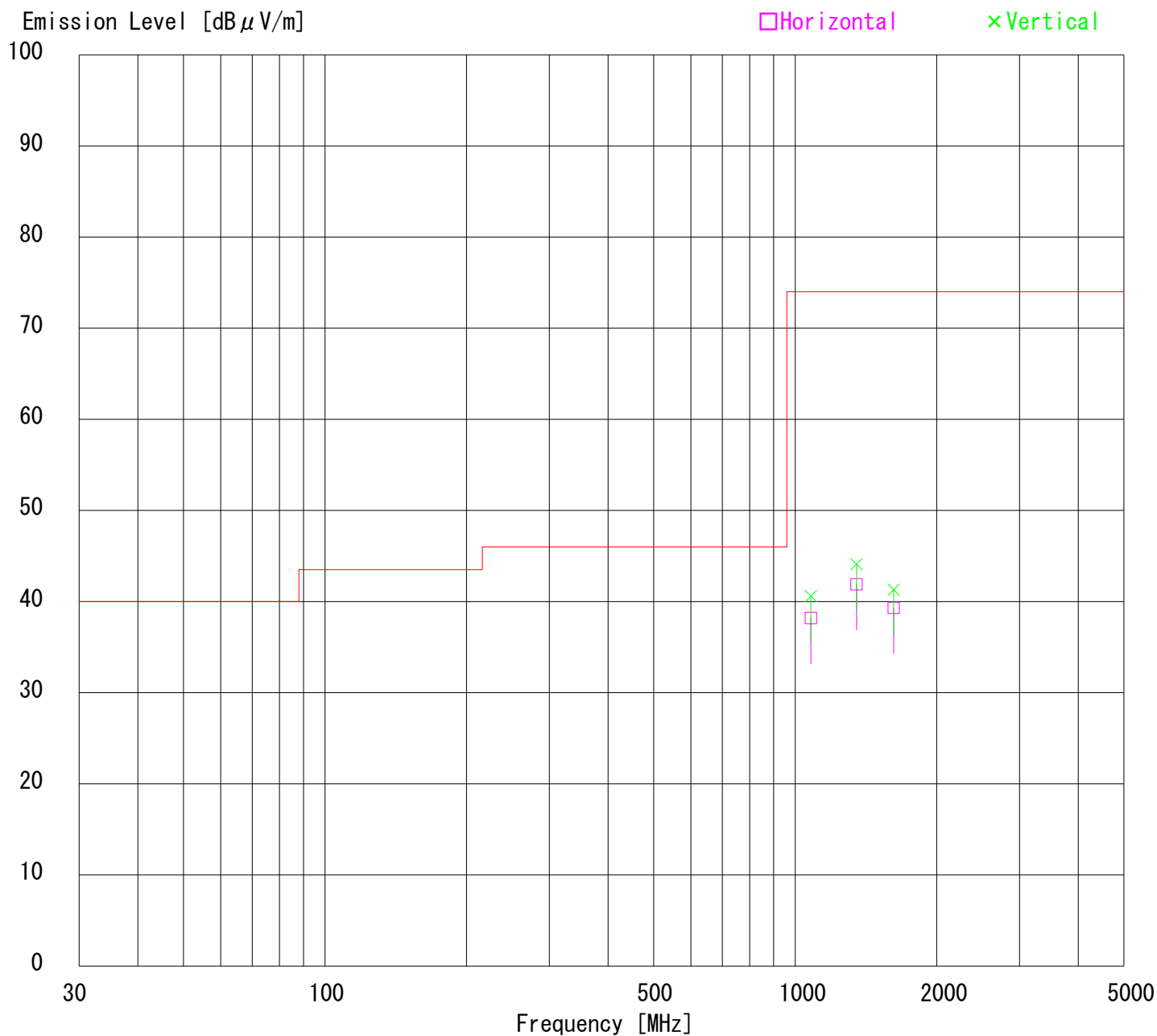
UL Apex Co., Ltd.

YOKOWA No.3 OPEN TEST SITE

Report No. : 26GE0303-YW-1

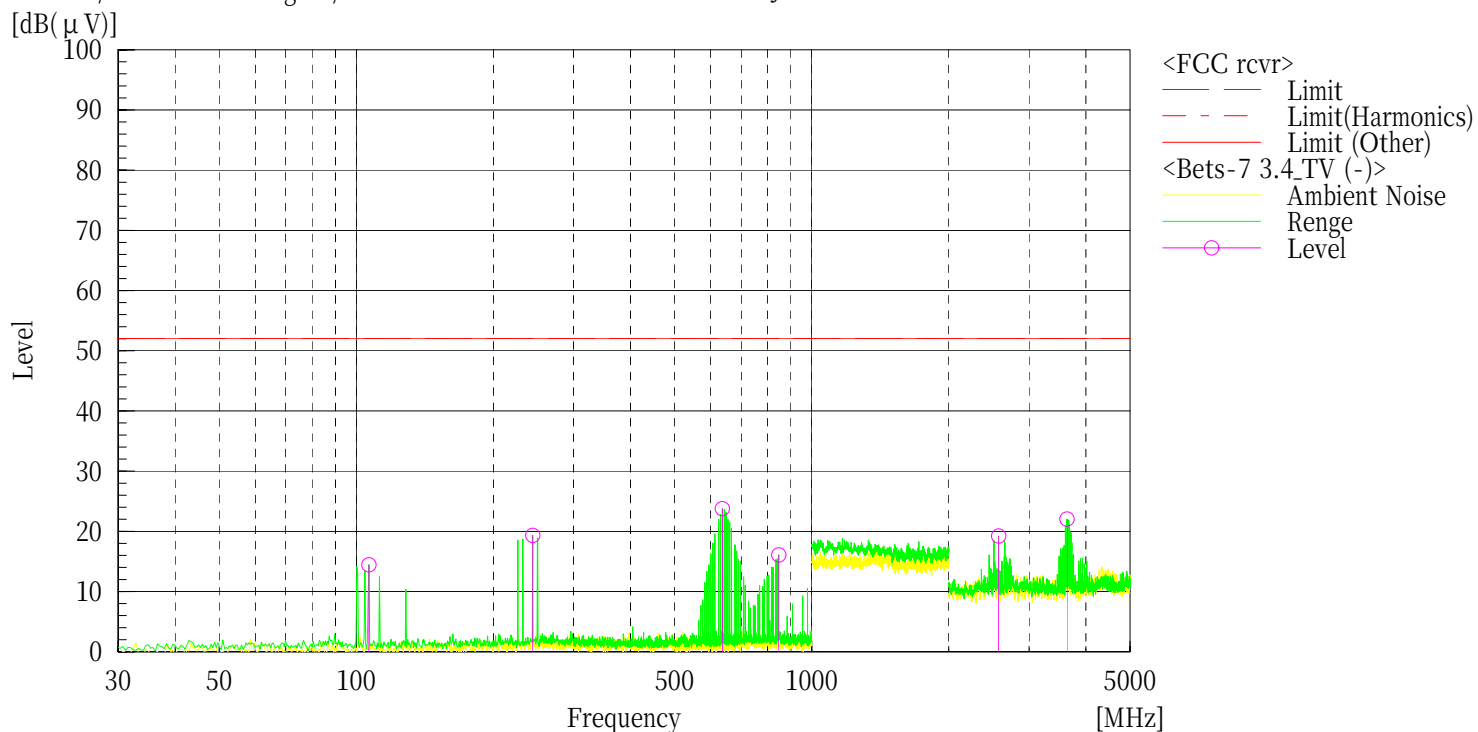
Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD Recorder with Video Cassette Recorder
Model No. : D-VR5SU
Serial No. : -
Power : AC120V/60Hz
Mode : DVD+Rec (HDMI)
Remarks : -
Date : 3/15/2006
Test Distance : 3 m
Temperature : 23 °C
Humidity : 65 %
Regulation : FCC Part15B CLASS B (Peak Limit / Upper1GHz)

Engineer : Toshifumi Yoneshige



EUT TYPE : DVD/VCR
APPLICANT : Orion Electric Co., Ltd.
Model No. : D-VR5SU
EUT POWER : AC120V/60Hz
TEMP./HUMID. : 23deg.C / 39%

LIMIT : FCC Part15(ANSI C63.4/92)
MODE : TV Tuning
ENGINEER : Seigo Kakehi
TEST ROOM : Yokowa No.7S/R
JOB NO. : 26GE0303-YW-1

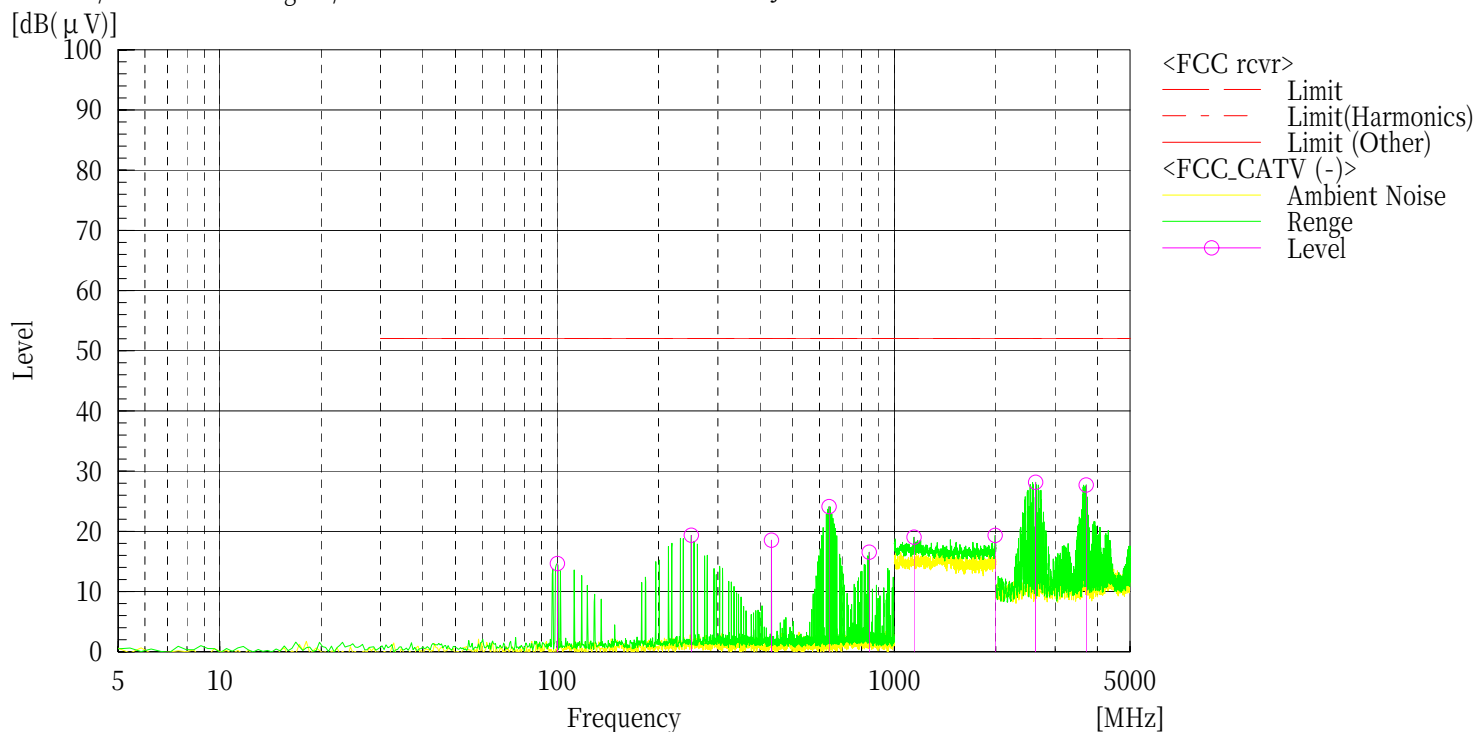


Final Result

Ch.	No.	Frequency [MHz]	Harm (<)	Reading PK [dB(μV)]	c.f [dB]	Result PK [dB(μV)]	Limit [dB(μV)]	Margin PK [dB]
-	1	106.564		37.1	-22.7	14.4	52.0	37.6
	2	243.950		41.7	-22.4	19.3	52.0	32.7
	3	636.571	14	46.5	-22.7	23.8	52.0	28.2
	4	846.571		39.1	-23.0	16.1	52.0	35.9
	5	2572.857	56	53.6	-34.4	19.2	52.0	32.8
	6	3634.286	79	55.9	-33.9	22.0	52.0	30.0

EUT TYPE : DVD/VCR
APPLICANT : Orion Electric Co., Ltd.
Model No. : D-VR5SU
EUT POWER : AC120V/60Hz
TEMP./HUMID. : 23deg.C / 39%

LIMIT : FCC Part15(ANSI C63.4/92)
MODE : CATV Tuning
ENGINEER : Seigo Kakehi
TEST ROOM : Yokowa No.7S/R
JOB NO. : 26GE0303-YW-1



Final Result

Ch.	No.	Frequency [MHz]	Harm (<)	Reading PK [dB(μV)]	c.f [dB]	Result PK [dB(μV)]	Limit [dB(μV)]	Margin PK [dB]
-	1	100.243		37.3	-22.7	14.6	52.0	37.4
	2	250.271		41.8	-22.4	19.4	52.0	32.7
	3	432.286		41.1	-22.6	18.5	52.0	33.5
	4	640.571	14	46.8	-22.7	24.1	52.0	27.9
	5	843.143		39.5	-23.0	16.5	52.0	35.5
	6	1144.286	25	49.1	-30.1	19.0	52.0	33.0
	7	1990.000	43	48.1	-28.8	19.3	52.0	32.7
	8	2624.286	57	62.6	-34.4	28.2	52.0	23.8
	9	3707.143	81	61.6	-33.9	27.7	52.0	24.3

RF Output Level

UL Apex Co.,Ltd.
Yokowa EMC Laboratory

Company : Orion Electric Co., Ltd.
Equipment : DVD/VCR
Model Number : D-VR5SU
Power : 120V/60Hz
Description : TV Reception + Rec.
Remarks : -

Report Number : 26GE0303-YW-1
Regulation : FCC15B SubpartB
Date : February 23 ,2006
Temp / Humid : 21deg.C/40%
Engineer : Seigo Kakehi

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	56.3	7.7	64.0	69.5	5.5
4	67.25	55.9	7.7	63.6	69.5	5.9
Audio Signal						
3	56.75	42.1	7.7	49.8	56.5	6.7
	65.75	40.9	7.7	48.6	56.5	7.9
4	62.75	41.3	7.7	49.0	56.5	7.5
	71.75	40.2	7.7	47.9	56.5	8.6

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	56.6	7.7	64.3	69.5	5.2
4	67.25	55.9	7.7	63.6	69.5	5.9
Audio Signal						
3	56.75	42.0	7.7	49.7	56.5	6.8
	65.75	40.9	7.7	48.6	56.5	7.9
4	62.75	41.5	7.7	49.2	56.5	7.3
	71.75	40.2	7.7	47.9	56.5	8.6

RF Output Level

UL Apex Co.,Ltd.
Yokowa EMC Laboratory

Company : Orion Electric Co., Ltd.
Equipment : DVD/VCR
Model Number : D-VR5SU
Power : 120V/60Hz
Description : AV Input +Rec.
Remarks : -

Report Number : 26GE0303-YW-1
Regulation : FCC15B SubpartB
Date : February 23 ,2006
Temp / Humid : 21deg.C/40%
Engineer : Seigo Kakehi

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	56.9	7.7	64.6	69.5	4.9
4	67.25	55.9	7.7	63.6	69.5	5.9
Audio Signal						
3	56.75	42.4	7.7	50.1	56.5	6.4
	65.75	41.0	7.7	48.7	56.5	7.8
4	62.75	41.5	7.7	49.2	56.5	7.3
	71.75	40.3	7.7	48.0	56.5	8.6

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	56.2	7.7	63.9	69.5	5.6
4	67.25	55.4	7.7	63.1	69.5	6.4
Audio Signal						
3	56.75	42.0	7.7	49.7	56.5	6.8
	65.75	41.0	7.7	48.7	56.5	7.8
4	62.75	41.5	7.7	49.2	56.5	7.3
	71.75	40.2	7.7	47.9	56.5	8.6

RF Output Level

UL Apex Co.,Ltd.
Yokowa EMC Laboratory

Company : Orion Electric Co., Ltd.
Equipment : DVD/VCR
Model Number : D-VR5SU
Power : 120V/60Hz
Description : AV Input+Rec.
Remarks : -

Report Number : 26GE0303-YW-1
Regulation : FCC15B SubpartB
Date : February 23 ,2006
Temp / Humid : 21deg.C/40%
Engineer : Seigo Kakehi

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	56.2	7.7	63.9	69.5	5.6
4	67.25	56.2	7.7	63.9	69.5	5.6
Audio Signal						
3	56.75	41.9	7.7	49.6	56.5	6.9
	65.75	40.8	7.7	48.5	56.5	8.0
4	62.75	41.3	7.7	49.0	56.5	7.5
	71.75	40.4	7.7	48.1	56.5	8.4

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	56.2	7.7	63.9	69.5	5.6
4	67.25	55.5	7.7	63.2	69.5	6.3
Audio Signal						
3	56.75	42.2	7.7	49.9	56.5	6.6
	65.75	40.9	7.7	48.6	56.5	7.9
4	62.75	41.4	7.7	49.1	56.5	7.4
	71.75	40.1	7.7	47.8	56.5	8.7

RF Output Level

UL Apex Co.,Ltd.
Yokowa EMC Laboratory

Company	: Orion Electric Co., Ltd.	Report Number	: 26GE0303-YW-1
Equipment	: DVD/VCR	Regulation	: FCC15B SubpartB
Model Number	: D-VR5SU	Date	: February 23 ,2006
Power	: 120V/60Hz	Temp / Humid	: 21deg.C/40%
Description	: VCR Playback+Rec.	Engineer	: Seigo Kakehi
Remarks	: -		

Ch	Frequency [MHz]	Meter Reading [dB μ V]	Correction Factor [dB]	Result [dB]	Limits [dB μ V]	Margin [dB]
Video Signal						
3	61.25	56.9	7.7	64.6	69.5	4.9
4	67.25	56.0	7.7	63.7	69.5	5.8
Audio Signal						
3	56.75	42.1	7.7	49.8	56.5	6.7
	65.75	42.0	7.7	49.7	56.5	6.8
4	62.75	41.4	7.7	49.1	56.5	7.4
	71.75	40.2	7.7	47.9	56.5	8.6

RF Output Level

UL Apex Co.,Ltd.
Yokowa EMC Laboratory

Company : Orion Electric Co., Ltd.
Equipment : DVD/VCR
Model Number : D-VR5SU
Power : 120V/60Hz
Description : DVD Play+Rec.
Remarks : -

Report Number : 26GE0303-YW-1
Regulation : FCC15B SubpartB
Date : February 23 ,2006
Temp / Humid : 21deg.C/40%
Engineer : Seigo Kakehi

Ch	Frequency [MHz]	Meter Reading [dB μ V]	Correction Factor [dB]	Result [dB]	Limits [dB μ V]	Margin [dB]
Video Signal						
3	61.25	56.6	7.7	64.3	69.5	5.2
4	67.25	56.1	7.7	63.8	69.5	5.7
Audio Signal						
3	56.75	42.2	7.7	49.9	56.5	6.6
	65.75	41.0	7.7	48.7	56.5	7.8
4	62.75	41.4	7.7	49.1	56.5	7.4
	71.75	40.2	7.7	47.9	56.5	8.6

RF Output Level

UL Apex Co.,Ltd.
Yokowa EMC Laboratory

Company : Orion Electric Co., Ltd.
Equipment : DVD/VCR
Model Number : D-VR5SU
Power : 120V/60Hz
Description : i-Link+Rec.
Remarks : -

Report Number : 26GE0303-YW-1
Regulation : FCC15B SubpartB
Date : February 23 ,2006
Temp / Humid : 21deg.C/40%
Engineer : Seigo Kakehi

Ch	Frequency [MHz]	Meter Reading [dB μ V]	Correction Factor [dB]	Result [dB]	Limits [dB μ V]	Margin [dB]
Video Signal						
3	61.25	56.7	7.7	64.4	69.5	5.1
4	67.25	56.3	7.7	64.0	69.5	5.5
Audio Signal						
3	56.75	42.1	7.7	49.8	56.5	6.7
	65.75	40.9	7.7	48.6	56.5	7.9
4	62.75	41.3	7.7	49.0	56.5	7.5
	71.75	40.1	7.7	47.8	56.5	8.7

DATA OF RF SPURIOUS TEST

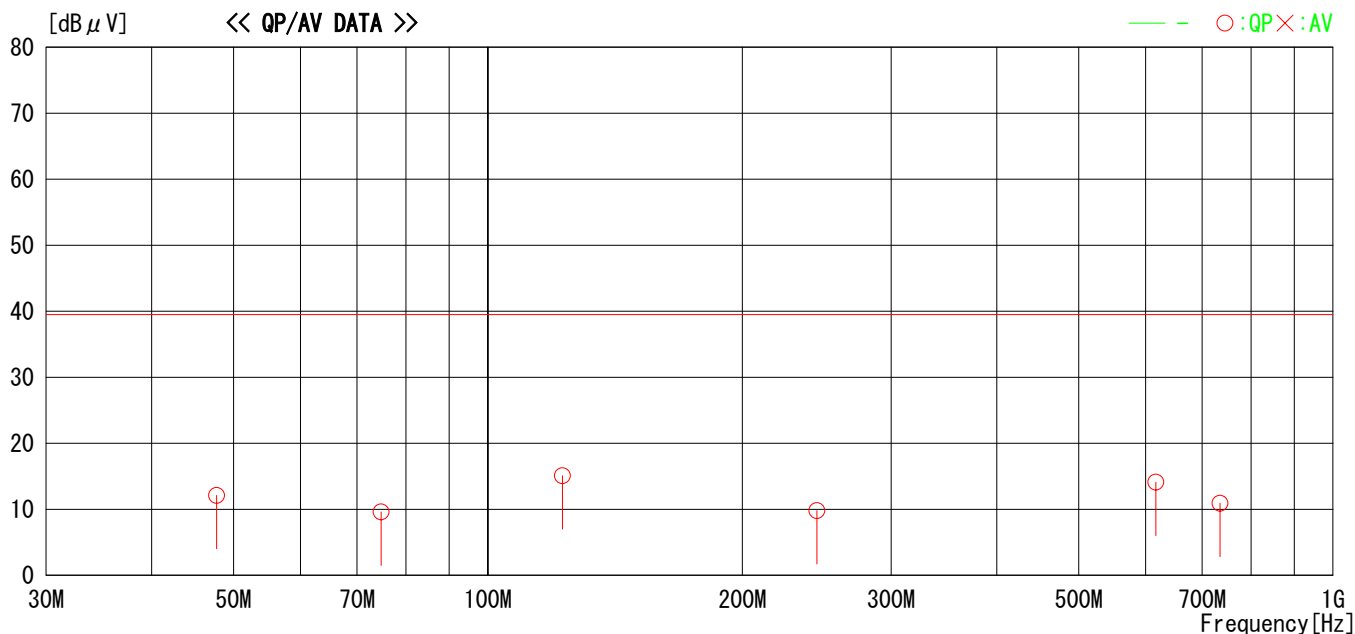
UL Apex Co., Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : D-VR5SU
TEMP./HUMID. : 23°C/39%

REPORT NO : 26GE0303-YW-1
DATE : February 28, 2006
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Seigo Kakehi

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

LIMIT : FCC 15B RF OUT SPURIOUS



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

DATA OF RF SPURIOUS TEST

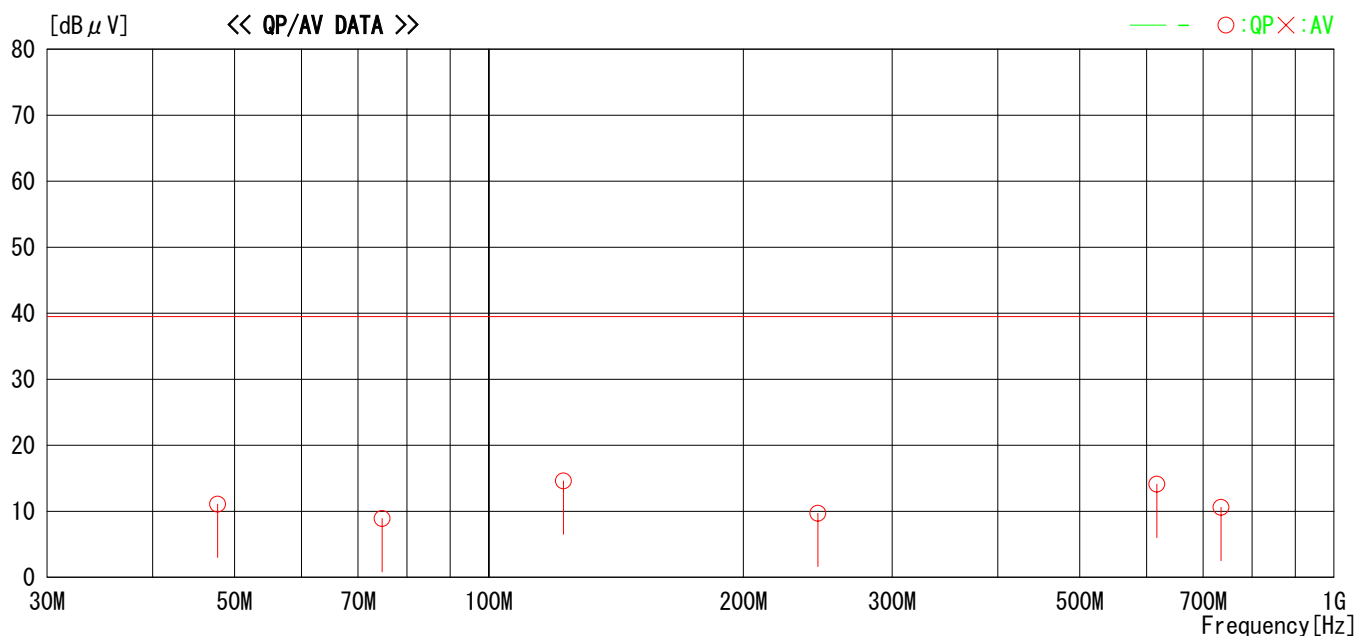
UL Apex Co., Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : D-VR5SU
TEMP./HUMID. : 23°C/39%

REPORT NO : 26GE0303-YW-1
DATE : February 28, 2006
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Seigo Kakehi

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

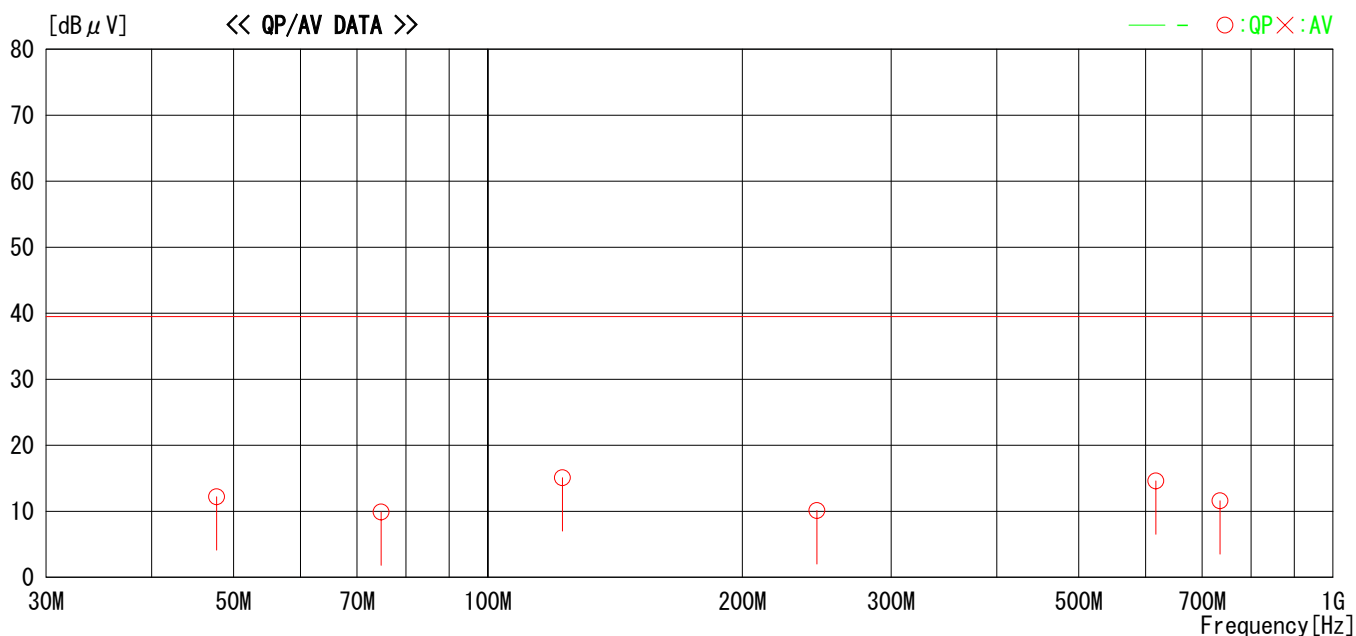
UL Apex Co., Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : D-VR5SU
TEMP./HUMID. : 23°C/39%

REPORT NO : 26GE0303-YW-1
DATE : February 28, 2006
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Seigo Kakehi

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

LIMIT : FCC 15B RF OUT SPURIOUS



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

DATA OF RF SPURIOUS TEST

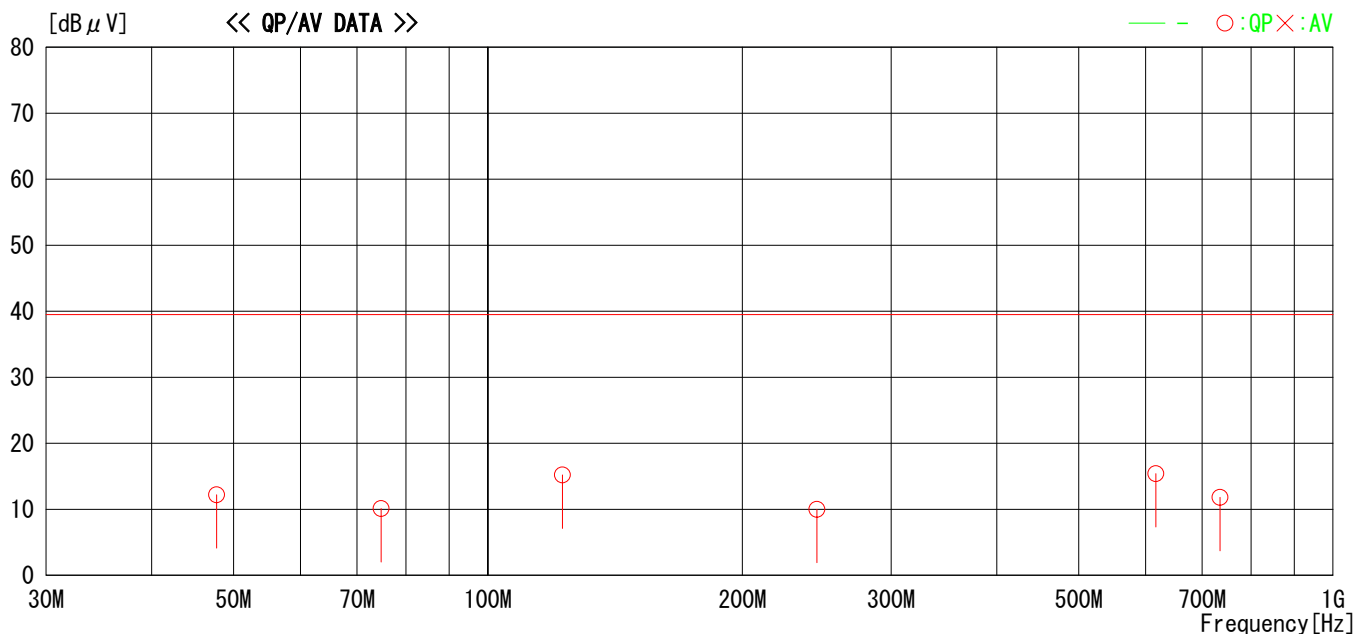
UL Apex Co., Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : D-VR5SU
TEMP./HUMID. : 23°C/39%

REPORT NO : 26GE0303-YW-1
DATE : February 28, 2006
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Seigo Kakehi

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

LIMIT : FCC 15B RF OUT SPURIOUS



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

DATA OF RF SPURIOUS TEST

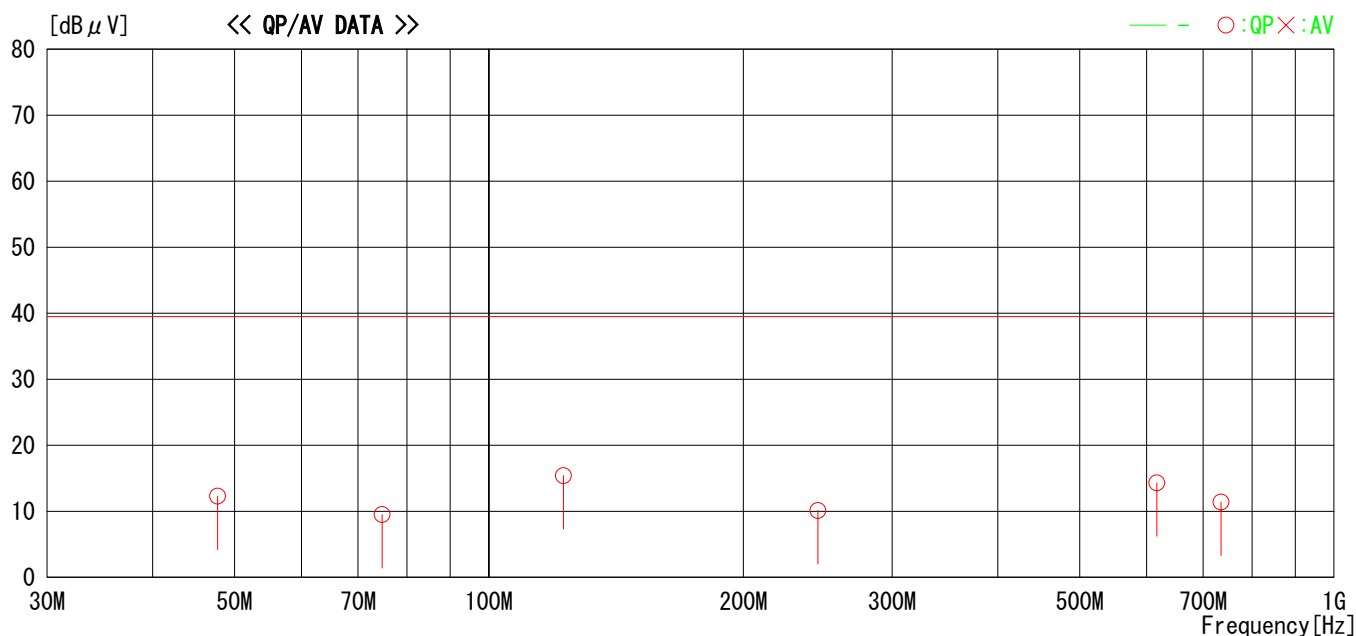
UL Apex Co., Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : D-VR5SU
TEMP./HUMID. : 23°C/39%

REPORT NO : 26GE0303-YW-1
DATE : February 28, 2006
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Seigo Kakehi

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

LIMIT : FCC 15B RF OUT SPURIOUS



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

DATA OF RF SPURIOUS TEST

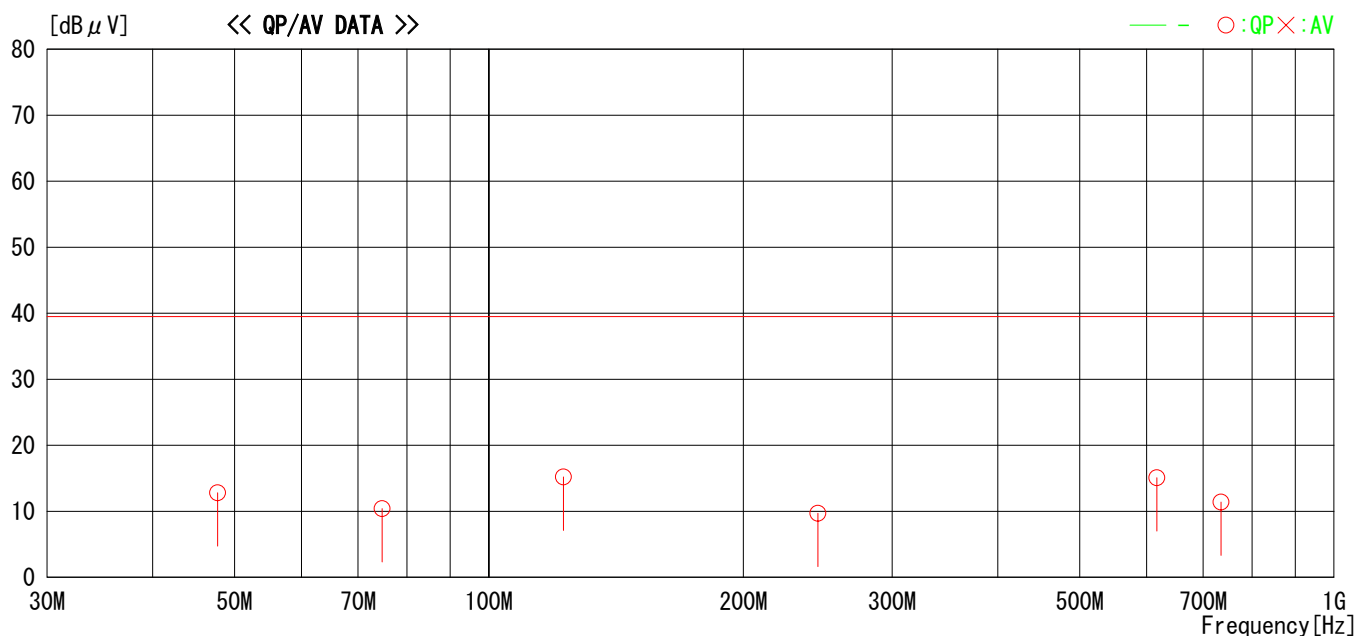
UL Apex Co., Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : D-VR5SU
TEMP./HUMID. : 23°C/39%

REPORT NO : 26GE0303-YW-1
DATE : February 28, 2006
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Seigo Kakehi

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

LIMIT : FCC 15B RF OUT SPURIOUS



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

DATA OF RF SPURIOUS TEST

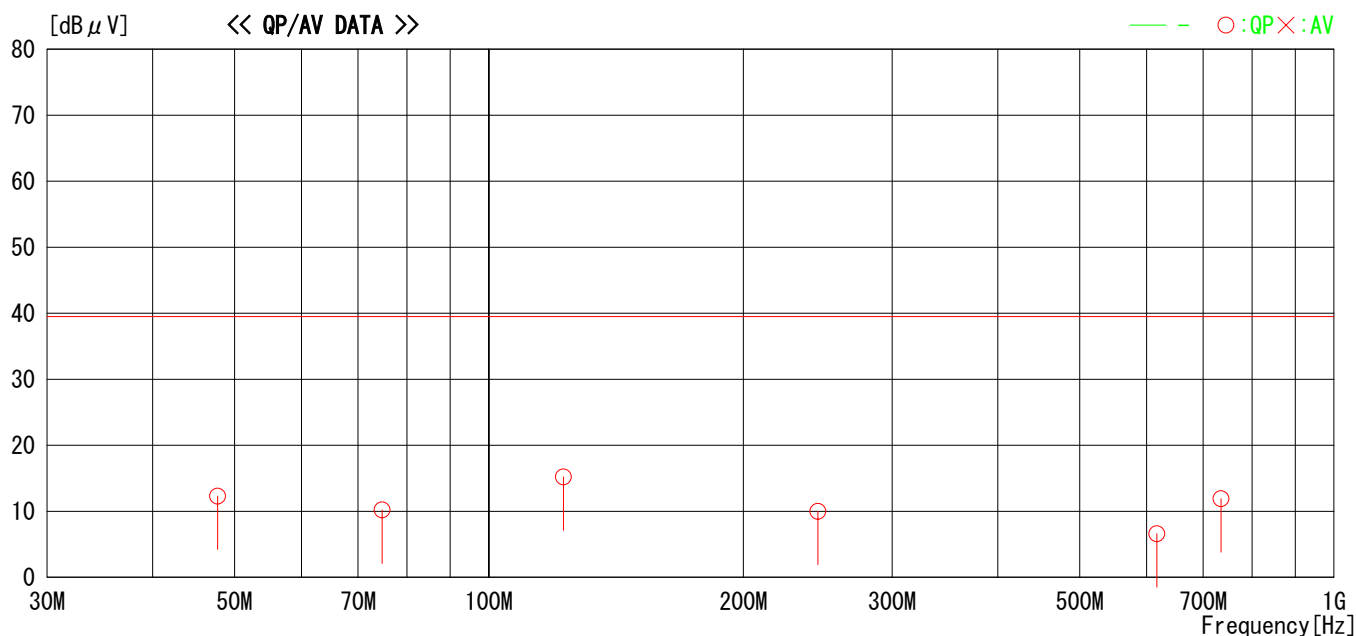
UL Apex Co., Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : D-VR5SU
TEMP./HUMID. : 23°C/39%

REPORT NO : 26GE0303-YW-1
DATE : February 28, 2006
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Seigo Kakehi

OPERATION MODE : i-Link Input+Rec. (3ch)

LIMIT : FCC 15B RF OUT SPURIOUS



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

DATA OF RF SPURIOUS TEST

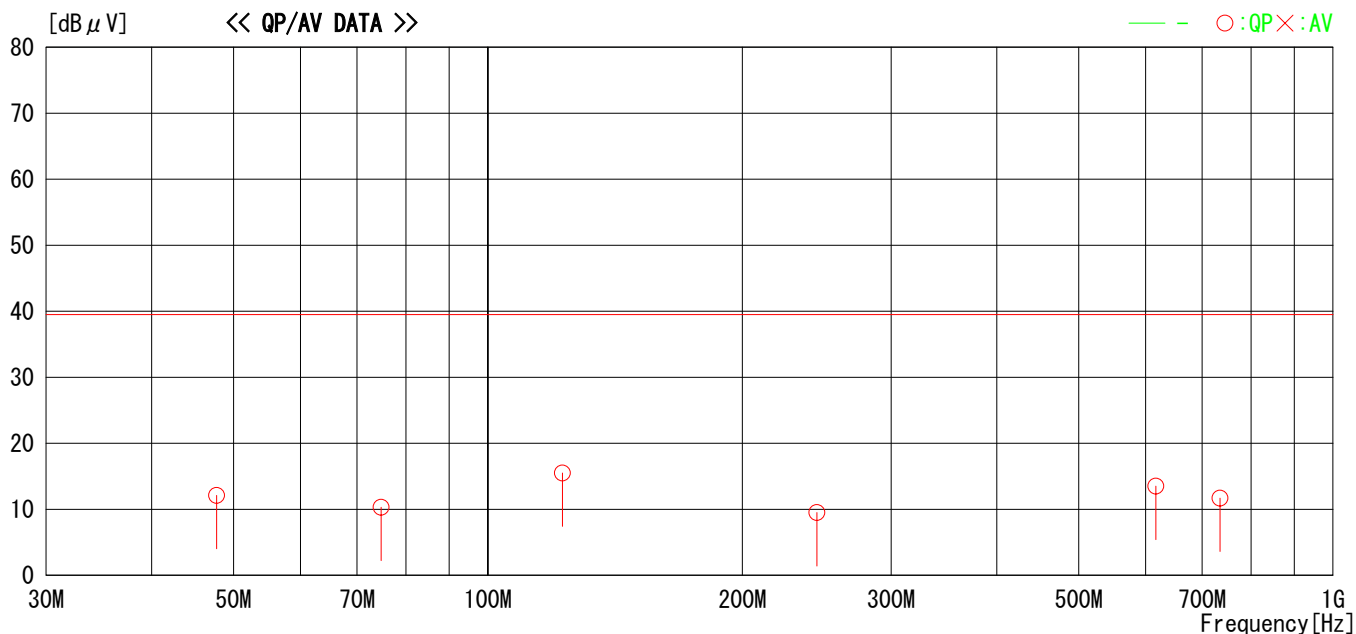
UL Apex Co., Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : D-VR5SU
TEMP./HUMID. : 23°C/39%

REPORT NO : 26GE0303-YW-1
DATE : February 28, 2006
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Seigo Kakehi

OPERATION MODE : VCR Play+Rec. (3ch)

LIMIT : FCC 15B RF OUT SPURIOUS



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

DATA OF RF SPURIOUS TEST

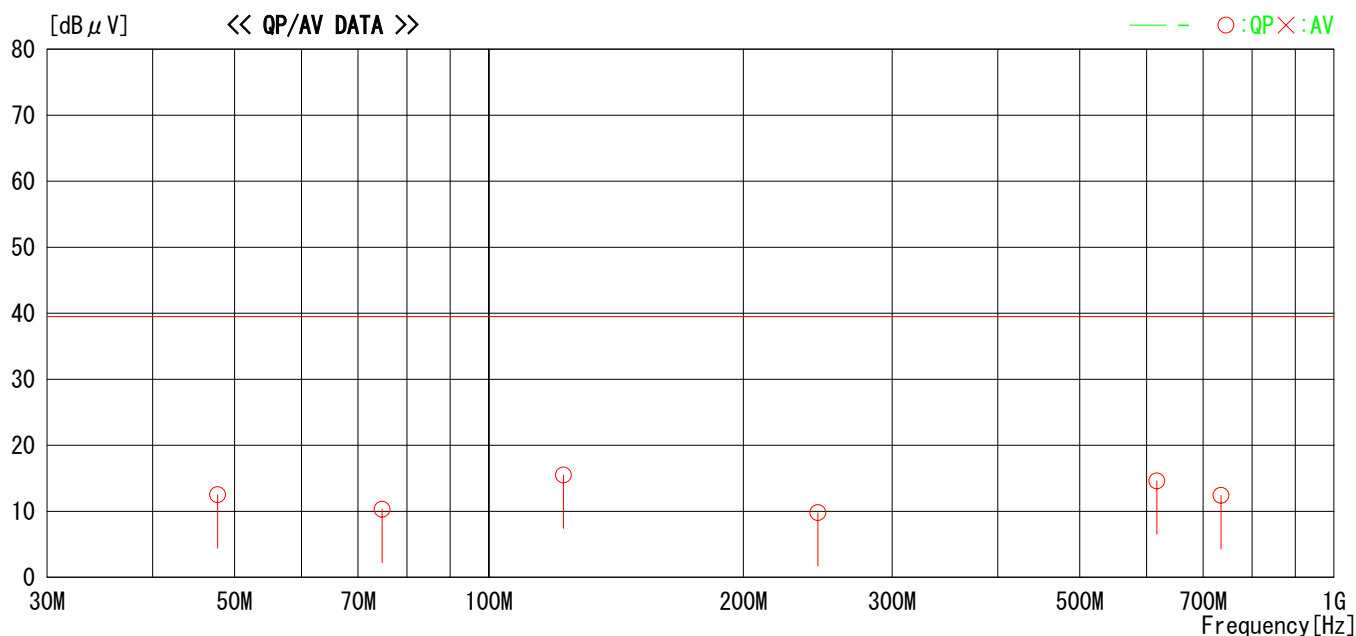
UL Apex Co., Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : D-VR5SU
TEMP./HUMID. : 23°C/39%

REPORT NO : 26GE0303-YW-1
DATE : February 28, 2006
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Seigo Kakehi

OPERATION MODE : DVD Play+Rec. (3ch)

LIMIT : FCC 15B RF OUT SPURIOUS



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

DATA OF RF SPURIOUS TEST

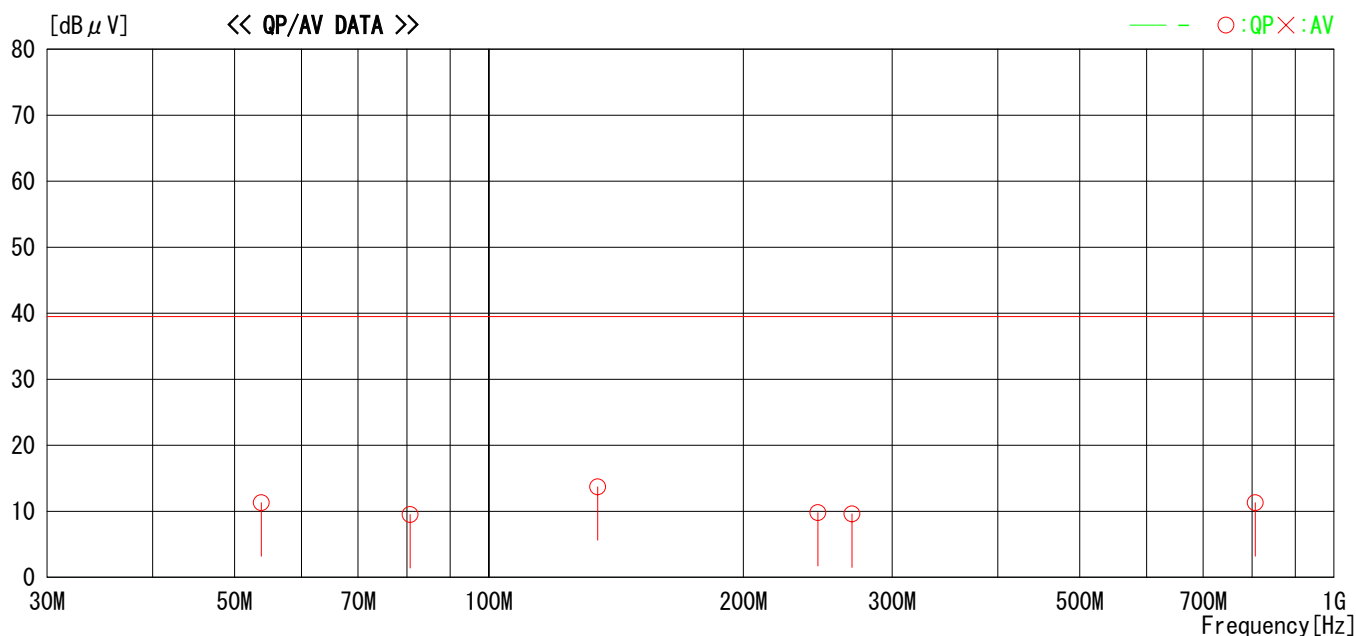
UL Apex Co., Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : D-VR5SU
TEMP./HUMID. : 23°C/39%

REPORT NO : 26GE0303-YW-1
DATE : February 28, 2006
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Seigo Kakehi

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

LIMIT : FCC 15B RF OUT SPURIOUS



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

DATA OF RF SPURIOUS TEST

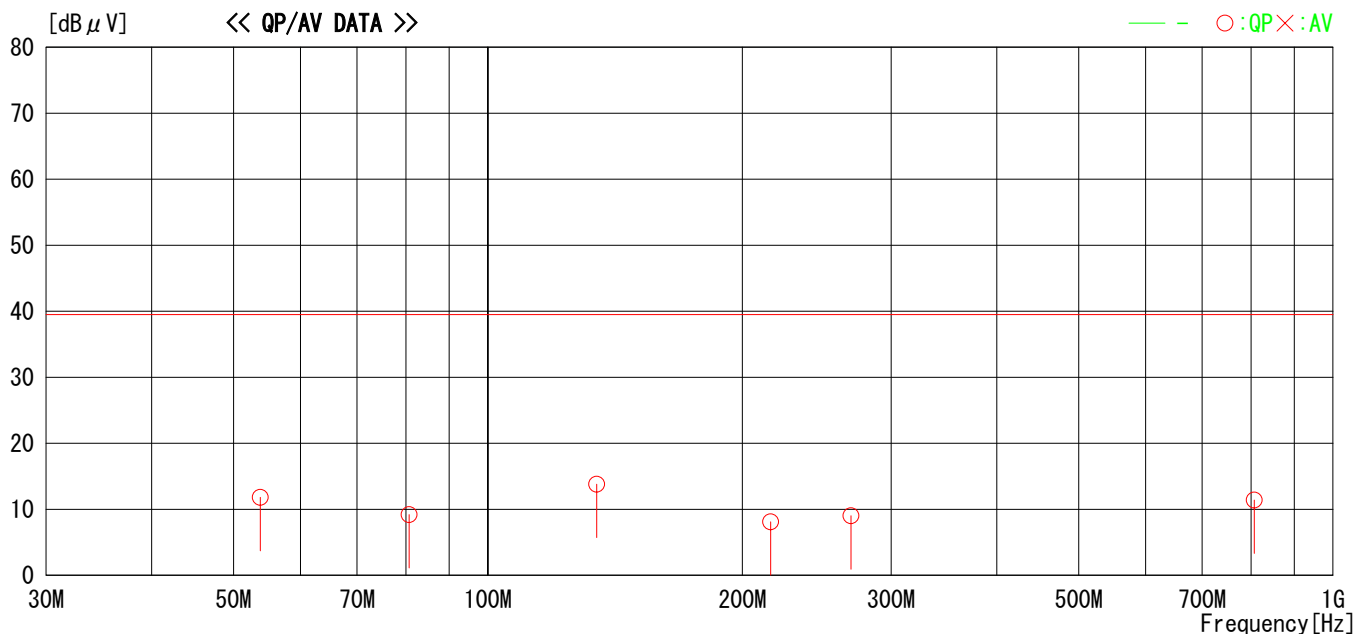
UL Apex Co., Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : D-VR5SU
TEMP./HUMID. : 23°C/39%

REPORT NO : 26GE0303-YW-1
DATE : February 28, 2006
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Seigo Kakehi

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

LIMIT : FCC 15B RF OUT SPURIOUS



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

DATA OF RF SPURIOUS TEST

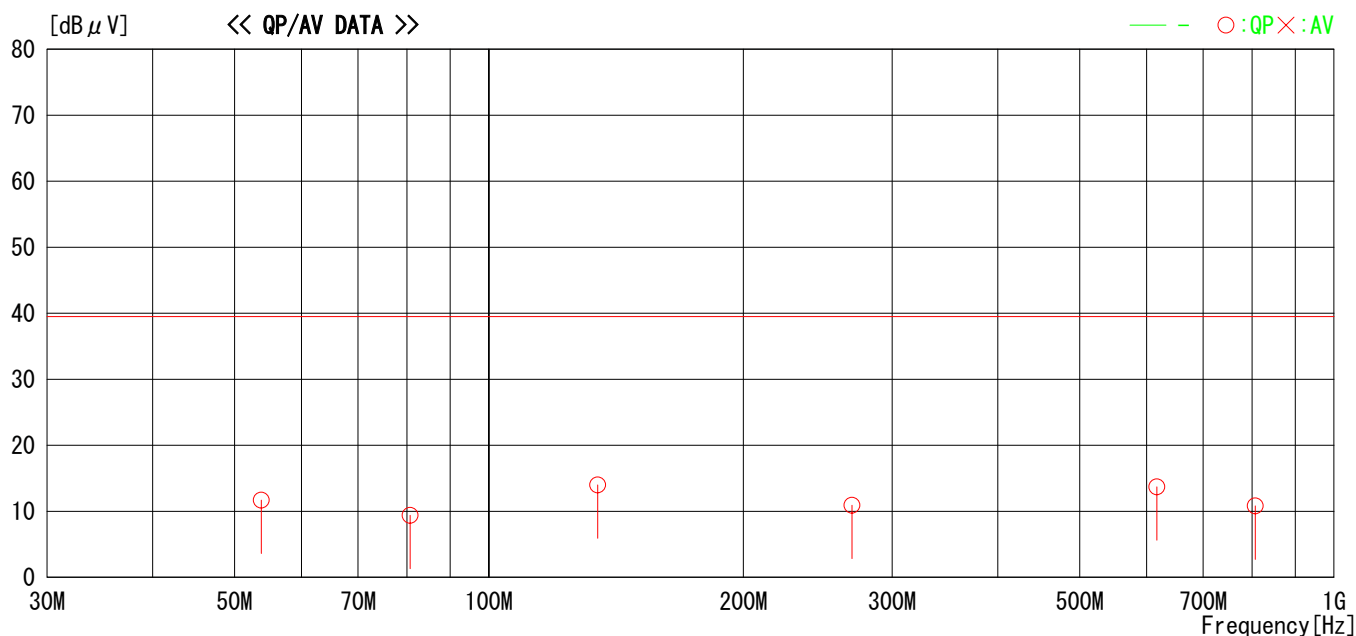
UL Apex Co., Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : D-VR5SU
TEMP./HUMID. : 23°C/39%

REPORT NO : 26GE0303-YW-1
DATE : February 28, 2006
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Seigo Kakehi

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

LIMIT : FCC 15B RF OUT SPURIOUS



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

DATA OF RF SPURIOUS TEST

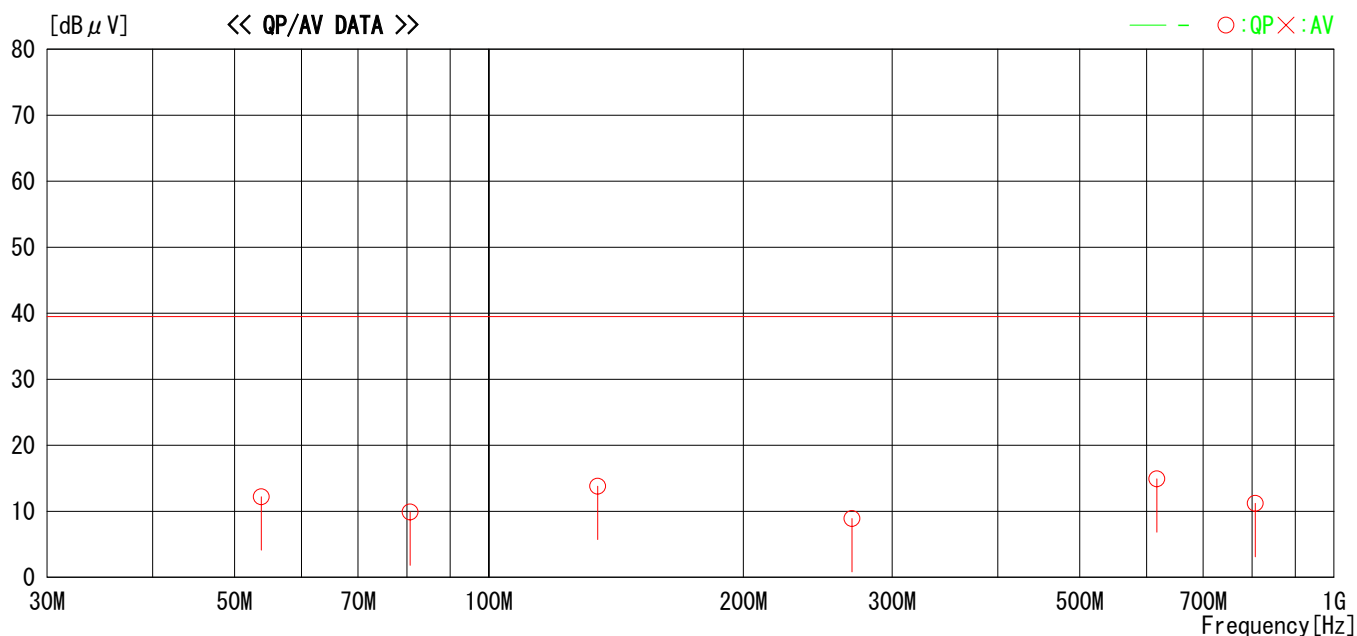
UL Apex Co., Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : D-VR5SU
TEMP./HUMID. : 23°C/39%

REPORT NO : 26GE0303-YW-1
DATE : February 28, 2006
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Seigo Kakehi

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

LIMIT : FCC 15B RF OUT SPURIOUS



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

DATA OF RF SPURIOUS TEST

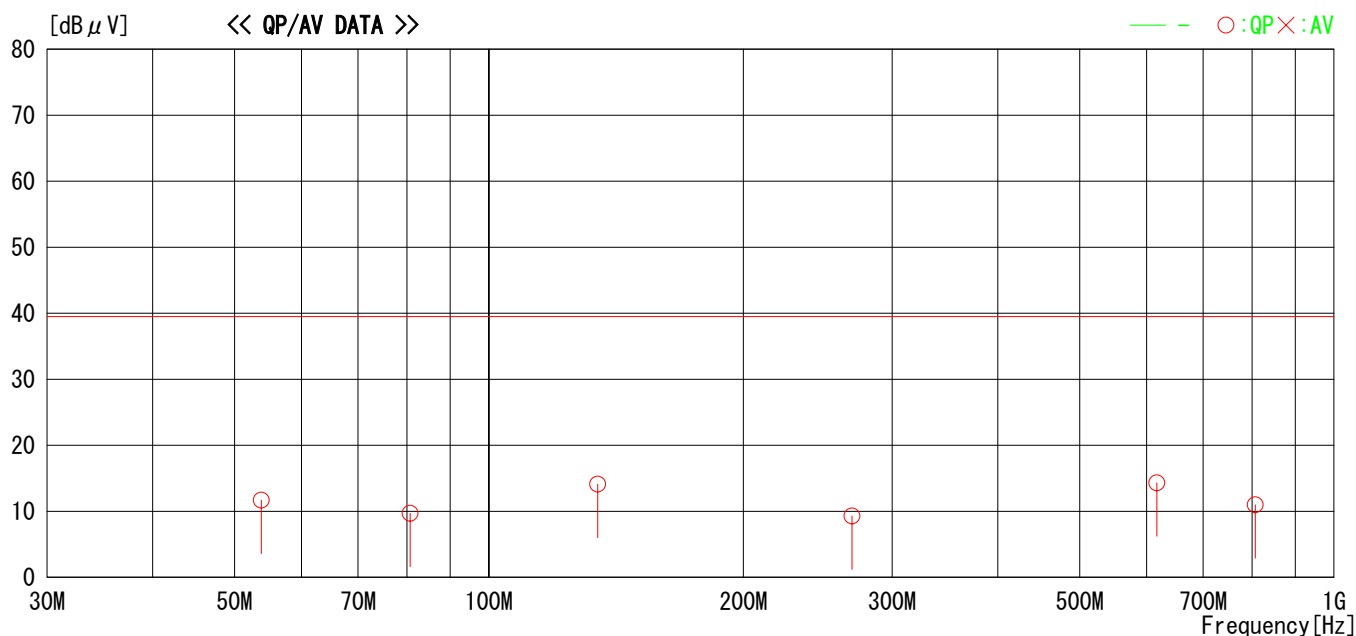
UL Apex Co., Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : D-VR5SU
TEMP./HUMID. : 23°C/39%

REPORT NO : 26GE0303-YW-1
DATE : February 28, 2006
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Seigo Kakehi

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

LIMIT : FCC 15B RF OUT SPURIOUS



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

DATA OF RF SPURIOUS TEST

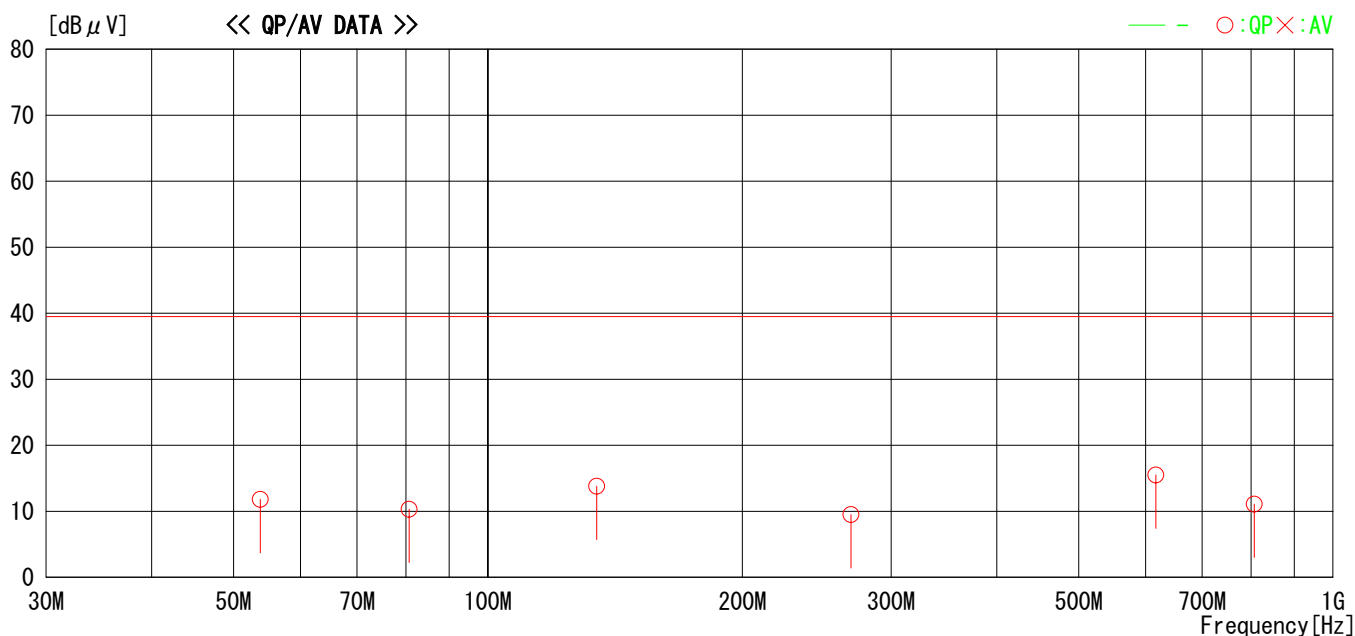
UL Apex Co., Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : D-VR5SU
TEMP./HUMID. : 23°C/39%

REPORT NO : 26GE0303-YW-1
DATE : February 28, 2006
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Seigo Kakehi

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

LIMIT : FCC 15B RF OUT SPURIOUS



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

DATA OF RF SPURIOUS TEST

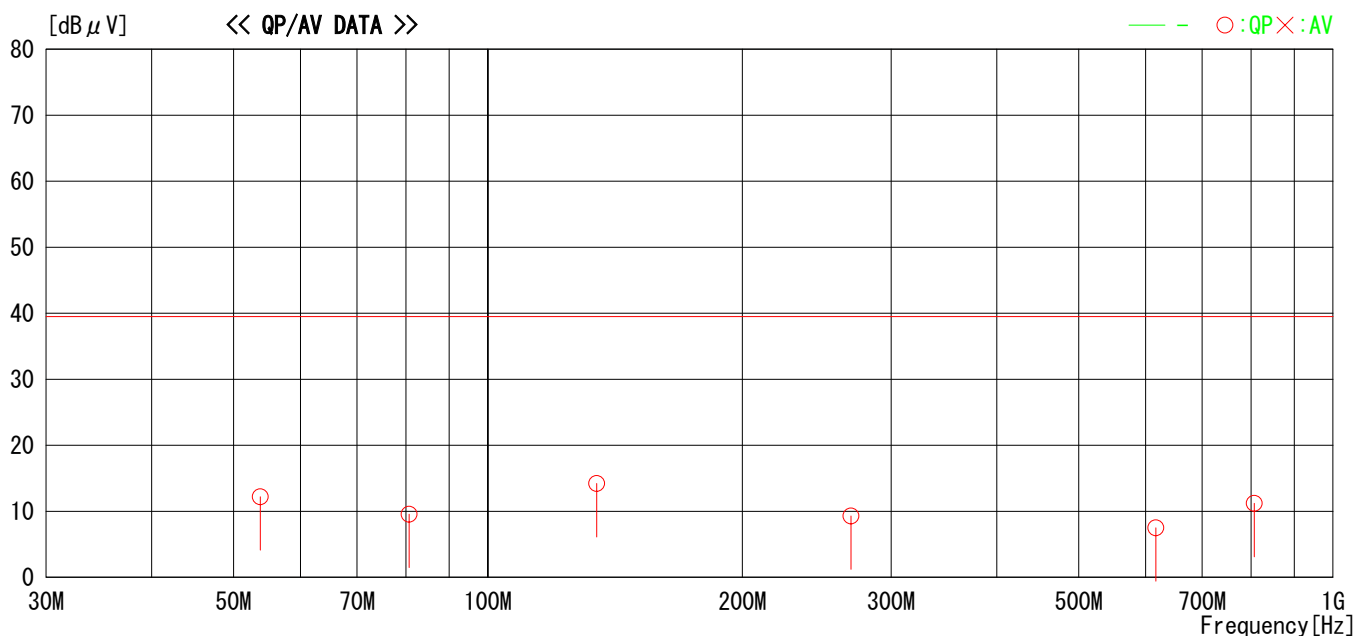
UL Apex Co., Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : D-VR5SU
TEMP./HUMID. : 23°C/39%

REPORT NO : 26GE0303-YW-1
DATE : February 28, 2006
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Seigo Kakehi

OPERATION MODE : i-Link Input+Rec. (4ch)

LIMIT : FCC 15B RF OUT SPURIOUS



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

DATA OF RF SPURIOUS TEST

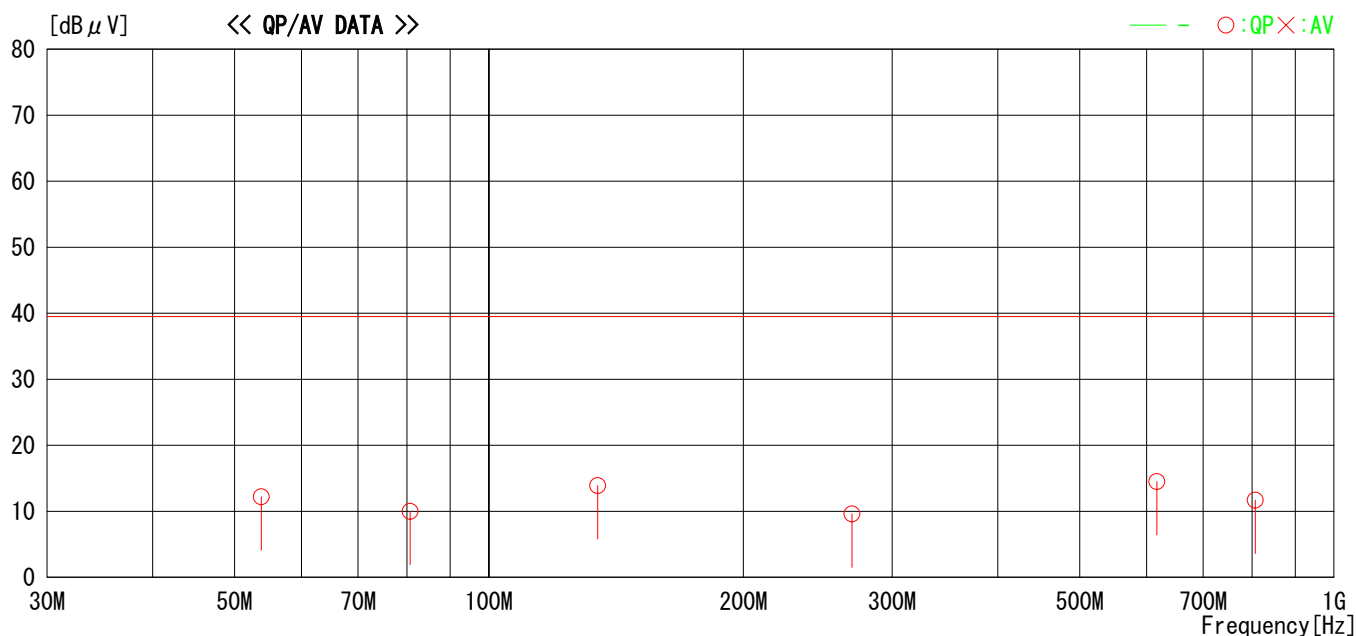
UL Apex Co., Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : D-VR5SU
TEMP./HUMID. : 23°C/39%

REPORT NO : 26GE0303-YW-1
DATE : February 28, 2006
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Seigo Kakehi

OPERATION MODE : VCR Play+Rec. (4ch)

LIMIT : FCC 15B RF OUT SPURIOUS



NO	FREQ [MHz]	READING		C. F [dB]	RESULT		LIMIT		MARGIN		PHASE
		PEAK [dB μ V]	[dB μ V]		PEAK [dB μ V]	[dB μ V]	PEAK [dB μ V]	[dB μ V]	PEAK [dB]	[dB]	
1	53.7900	32.2	----	-20.0	12.2	----	39.5	----	27.3	----	-
2	80.6900	29.7	----	-19.7	10.0	----	39.5	----	29.5	----	-
3	134.4800	33.3	----	-19.4	13.9	----	39.5	----	25.6	----	-
4	268.9600	28.3	----	-18.7	9.6	----	39.5	----	29.9	----	-
5	617.1300	33.8	----	-19.3	14.5	----	39.5	----	25.0	----	-
6	806.8800	30.7	----	-19.0	11.7	----	39.5	----	27.8	----	-

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

DATA OF RF SPURIOUS TEST

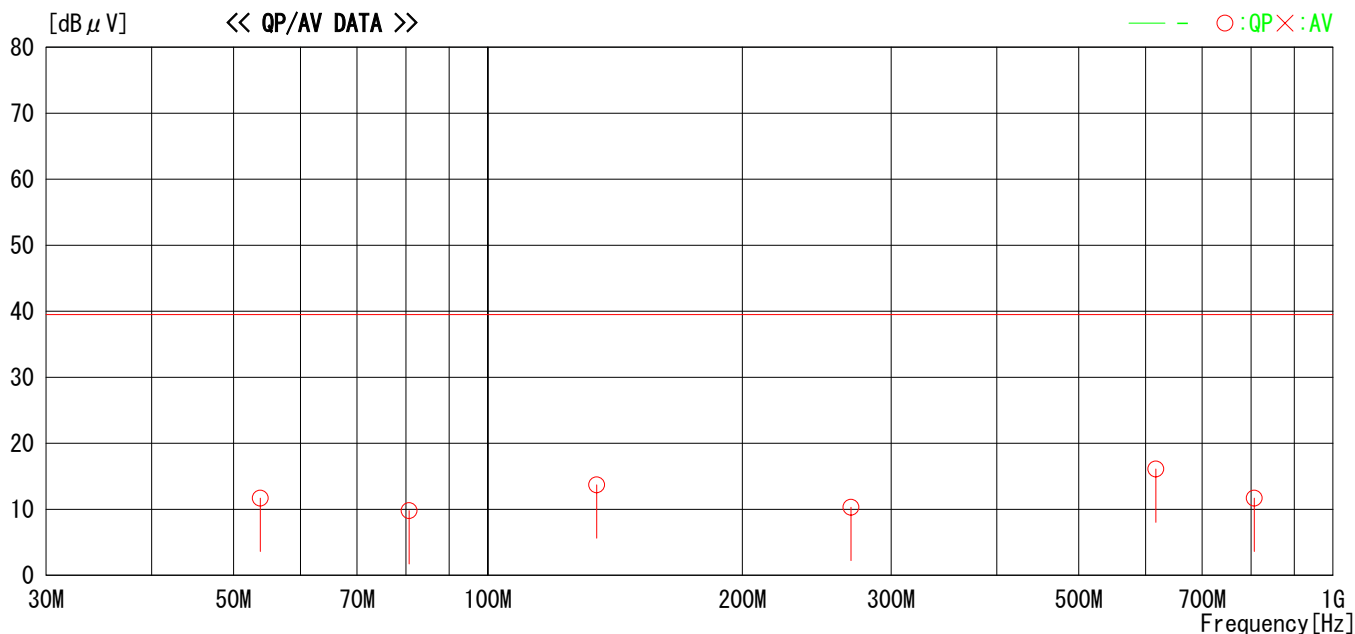
UL Apex Co., Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : D-VR5SU
TEMP./HUMID. : 23°C/39%

REPORT NO : 26GE0303-YW-1
DATE : February 28, 2006
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Seigo Kakehi

OPERATION MODE : DVD Play+Rec. (4ch)

LIMIT : FCC 15B RF OUT SPURIOUS



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

DATA OF ANTENNA TRANSFER SWITCH TEST

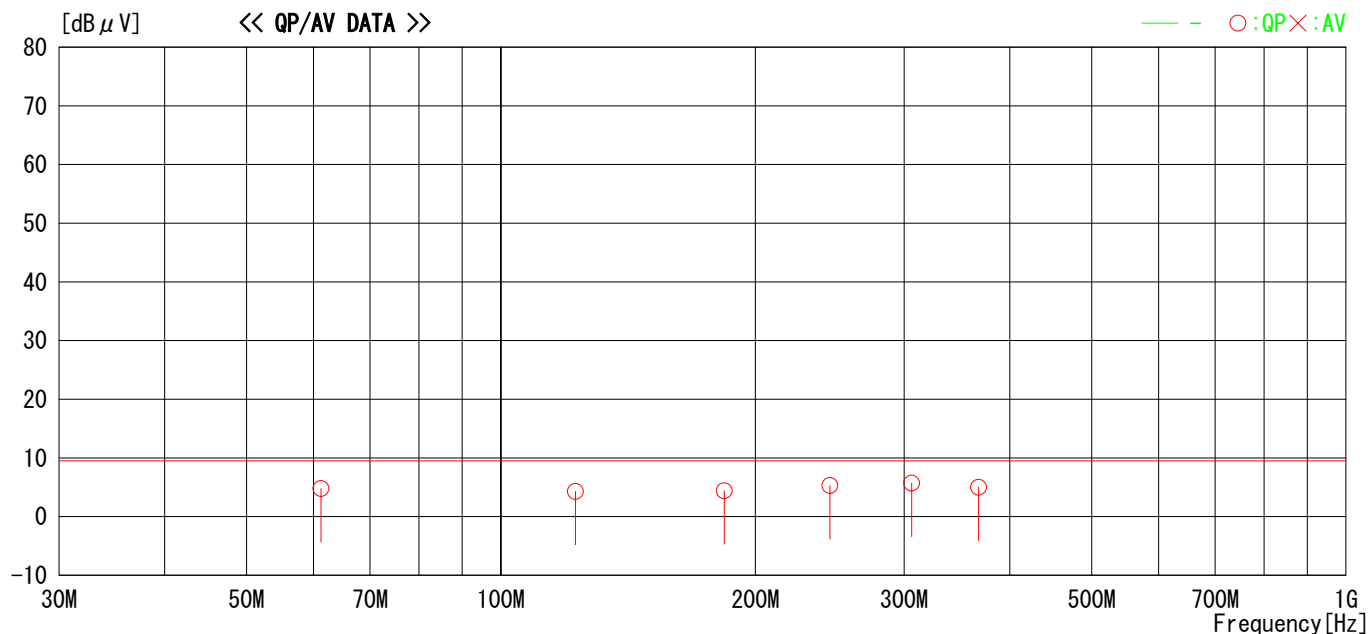
UL Apex Co., Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : D-VR5SU
TEMP./HUMID. : 23°C/39%

REPORT NO : 26GE0303-YW-1
DATE : February 28, 2006
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Seigo Kakehi

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

LIMIT : FCC15B ANTENNA TRANSFER SWITCH



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

DATA OF ANTENNA TRANSFER SWITCH TEST

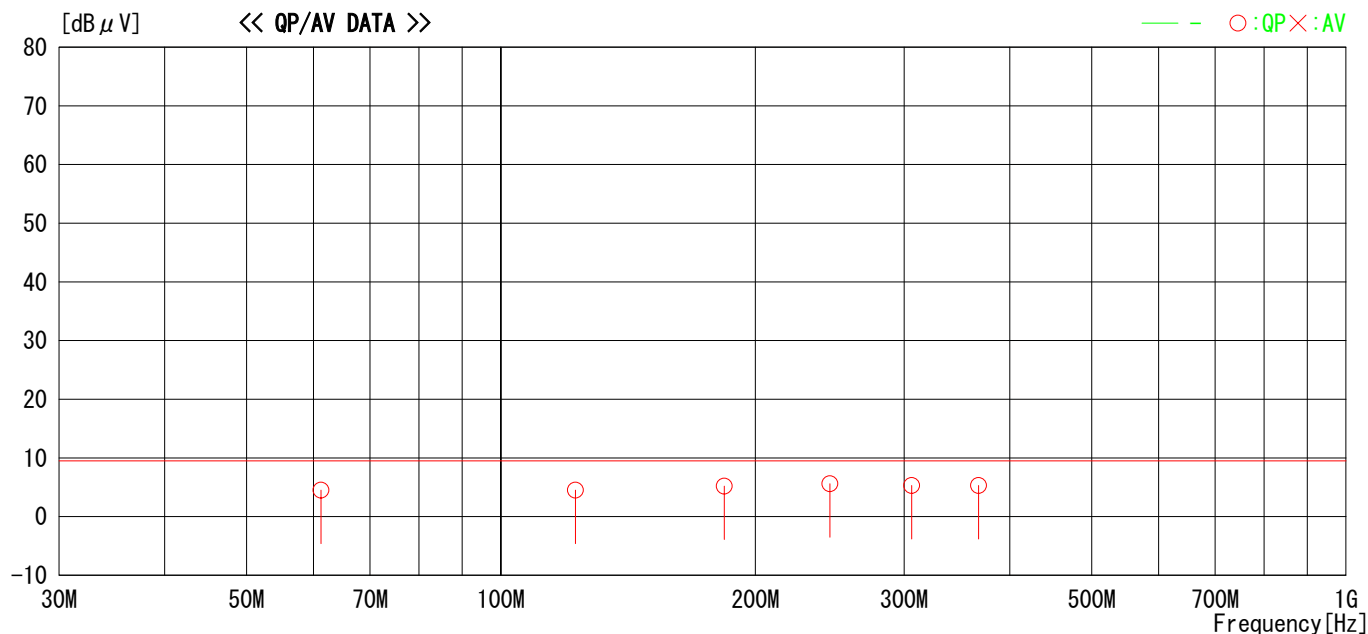
UL Apex Co., Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : D-VR5SU
TEMP./HUMID. : 23°C/39%

REPORT NO : 26GE0303-YW-1
DATE : February 28, 2006
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Seigo Kakehi

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

LIMIT : FCC15B ANTENNA TRANSFER SWITCH



NO	FREQ [MHz]	READING		C. F [dB]	RESULT		LIMIT		MARGIN		PHASE
		PEAK [dB μ V]	[dB μ V]		PEAK [dB μ V]	[dB μ V]	PEAK [dB μ V]	[dB μ V]	PEAK [dB]	[dB]	
1	61.2500	24.4	----	-19.9	4.5	----	9.5	----	5.0	----	-
2	122.5000	23.9	----	-19.4	4.5	----	9.5	----	5.0	----	-
3	183.7500	24.3	----	-19.1	5.2	----	9.5	----	4.3	----	-
4	245.0000	24.4	----	-18.8	5.6	----	9.5	----	3.9	----	-
5	306.2500	24.0	----	-18.7	5.3	----	9.5	----	4.2	----	-
6	367.5000	24.3	----	-19.0	5.3	----	9.5	----	4.2	----	-

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

DATA OF ANTENNA TRANSFER SWITCH TEST

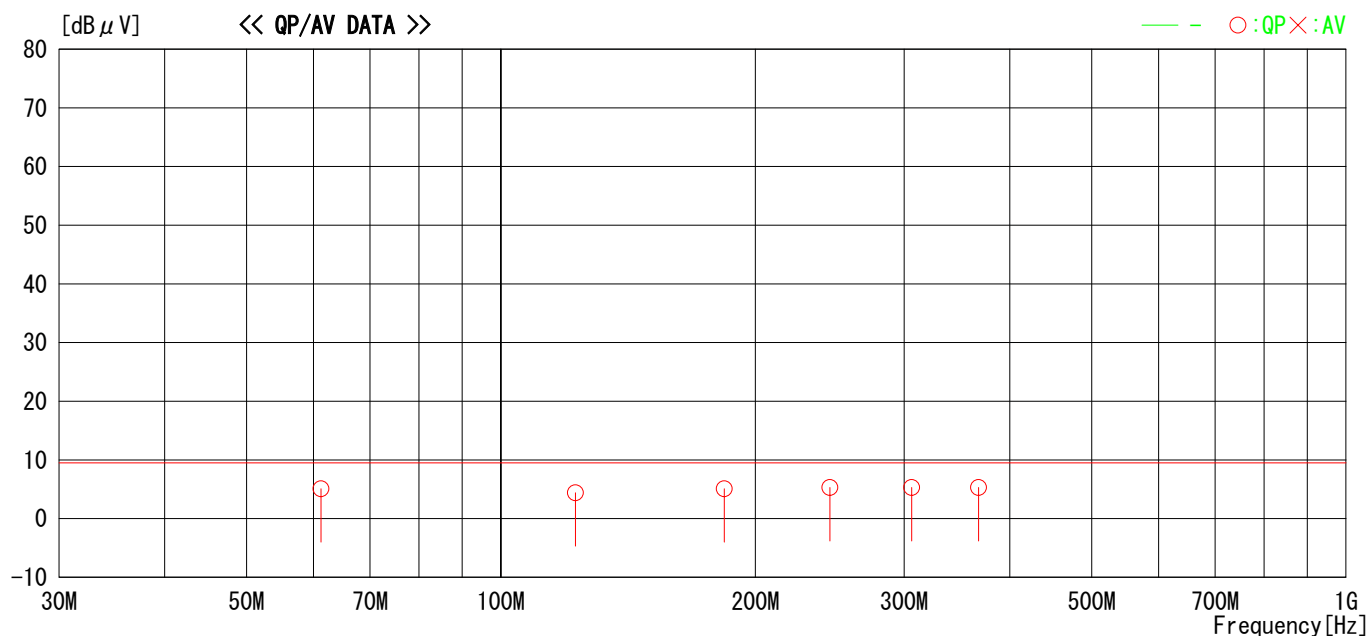
UL Apex Co., Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : D-VR5SU
TEMP./HUMID. : 23°C/39%

REPORT NO : 26GE0303-YW-1
DATE : February 28, 2006
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Seigo Kakehi

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

LIMIT : FCC15B ANTENNA TRANSFER SWITCH



NO	FREQ [MHz]	READING		C. F [dB]	RESULT		LIMIT		MARGIN		PHASE
		PEAK [dB μ V]	[dB μ V]		PEAK [dB μ V]	[dB μ V]	PEAK [dB μ V]	[dB μ V]	PEAK [dB]	[dB]	
1	61.2500	25.0	----	-19.9	5.1	----	9.5	----	4.4	----	-
2	122.5000	23.8	----	-19.4	4.4	----	9.5	----	5.1	----	-
3	183.7500	24.2	----	-19.1	5.1	----	9.5	----	4.4	----	-
4	245.0000	24.1	----	-18.8	5.3	----	9.5	----	4.2	----	-
5	306.2500	24.0	----	-18.7	5.3	----	9.5	----	4.2	----	-
6	367.5000	24.3	----	-19.0	5.3	----	9.5	----	4.2	----	-

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

DATA OF ANTENNA TRANSFER SWITCH TEST

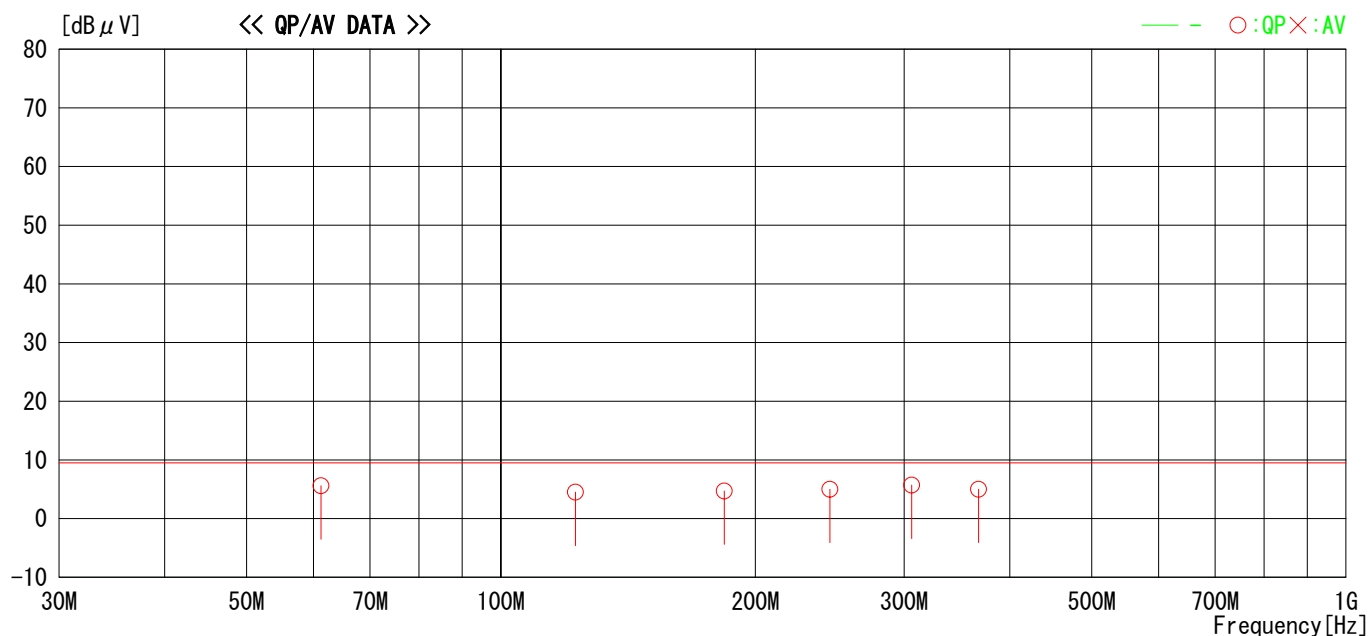
UL Apex Co., Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : D-VR5SU
TEMP./HUMID. : 23°C/39%

REPORT NO : 26GE0303-YW-1
DATE : February 28, 2006
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Seigo Kakehi

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

LIMIT : FCC15B ANTENNA TRANSFER SWITCH



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

DATA OF ANTENNA TRANSFER SWITCH TEST

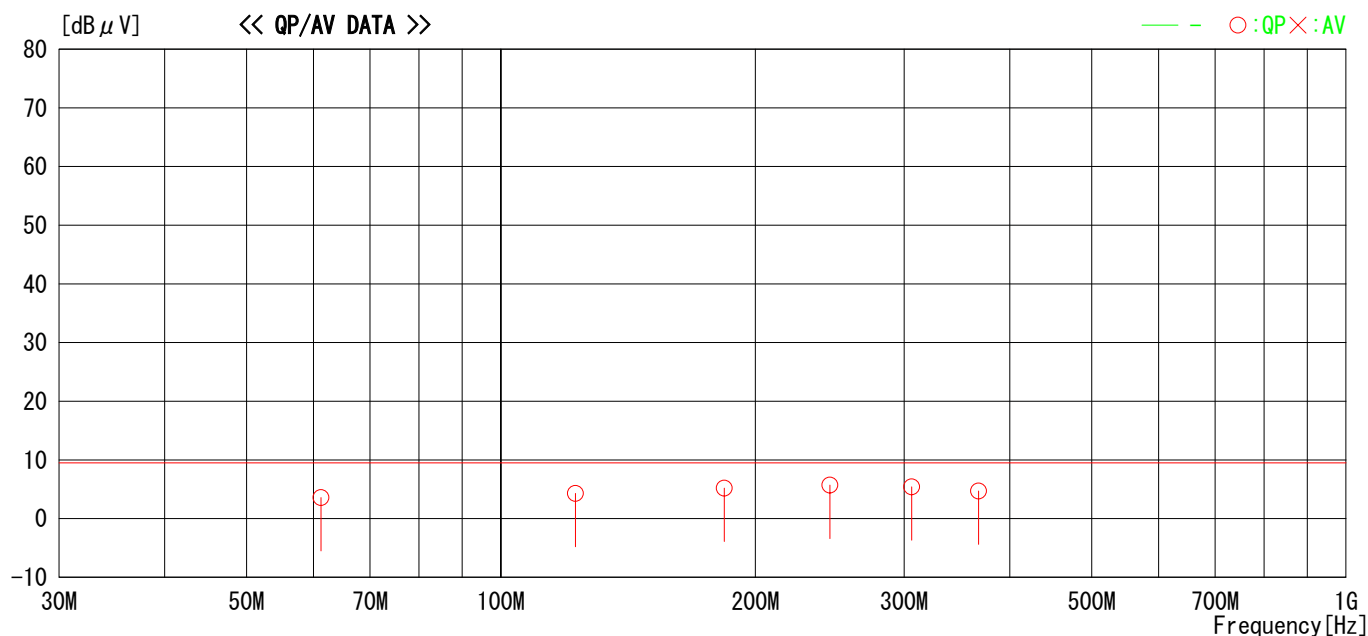
UL Apex Co., Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : D-VR5SU
TEMP./HUMID. : 23°C/39%

REPORT NO : 26GE0303-YW-1
DATE : February 28, 2006
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Seigo Kakehi

OPERATION MODE : i-Link Input+Rec. (3ch)

LIMIT : FCC15B ANTENNA TRANSFER SWITCH



NO	FREQ [MHz]	READING		C. F [dB]	RESULT		LIMIT		MARGIN		PHASE
		PEAK [dB μ V]	[dB μ V]		PEAK [dB μ V]	[dB μ V]	PEAK [dB μ V]	[dB μ V]	PEAK [dB]	[dB]	
1	61.2500	23.5	----	-19.9	3.6	----	9.5	----	5.9	----	-
2	122.5000	23.7	----	-19.4	4.3	----	9.5	----	5.2	----	-
3	183.7500	24.3	----	-19.1	5.2	----	9.5	----	4.3	----	-
4	245.0000	24.5	----	-18.8	5.7	----	9.5	----	3.8	----	-
5	306.2500	24.1	----	-18.7	5.4	----	9.5	----	4.1	----	-
6	367.5000	23.7	----	-19.0	4.7	----	9.5	----	4.8	----	-

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

DATA OF ANTENNA TRANSFER SWITCH TEST

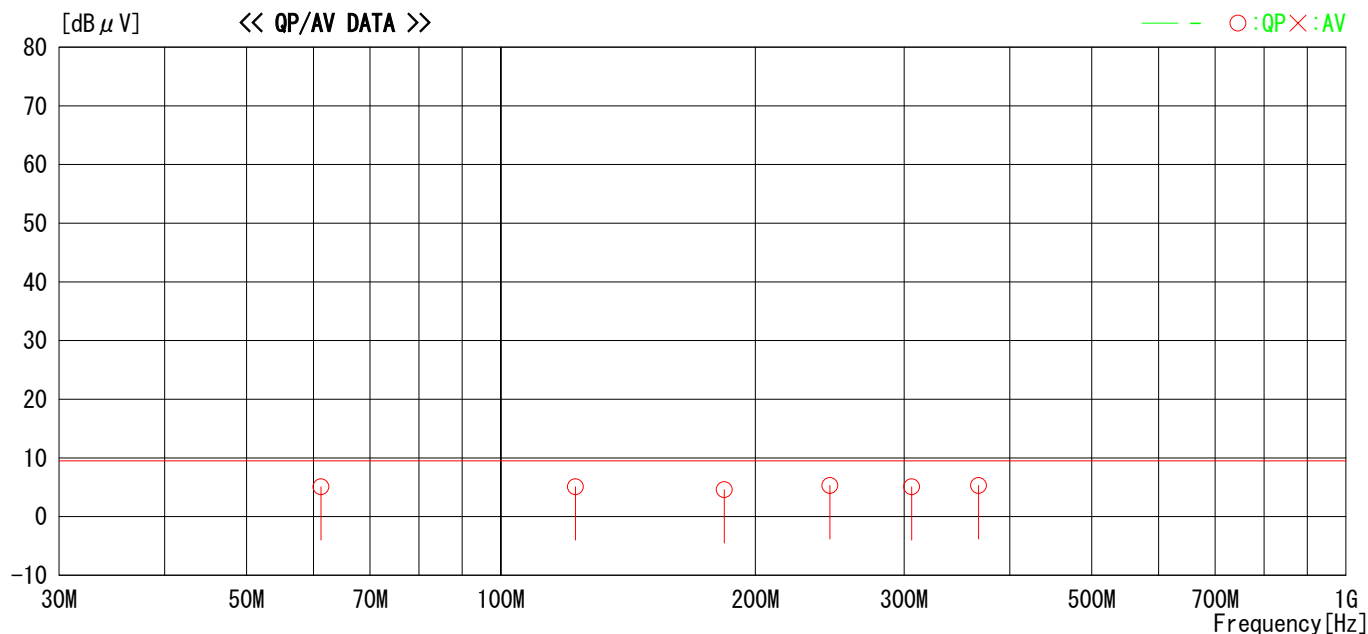
UL Apex Co., Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : D-VR5SU
TEMP./HUMID. : 23°C/39%

REPORT NO : 26GE0303-YW-1
DATE : February 28, 2006
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Seigo Kakehi

OPERATION MODE : VCR Play+Rec. (3ch)

LIMIT : FCC15B ANTENNA TRANSFER SWITCH



NO	FREQ [MHz]	READING		C. F [dB]	RESULT		LIMIT		MARGIN		PHASE
		PEAK [dB μ V]	[dB μ V]		PEAK [dB μ V]	[dB μ V]	PEAK [dB μ V]	[dB μ V]	PEAK [dB]	[dB]	
1	61.2500	25.0	----	-19.9	5.1	----	9.5	----	4.4	----	-
2	122.5000	24.5	----	-19.4	5.1	----	9.5	----	4.4	----	-
3	183.7500	23.7	----	-19.1	4.6	----	9.5	----	4.9	----	-
4	245.0000	24.1	----	-18.8	5.3	----	9.5	----	4.2	----	-
5	306.2500	23.8	----	-18.7	5.1	----	9.5	----	4.4	----	-
6	367.5000	24.3	----	-19.0	5.3	----	9.5	----	4.2	----	-

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

DATA OF ANTENNA TRANSFER SWITCH TEST

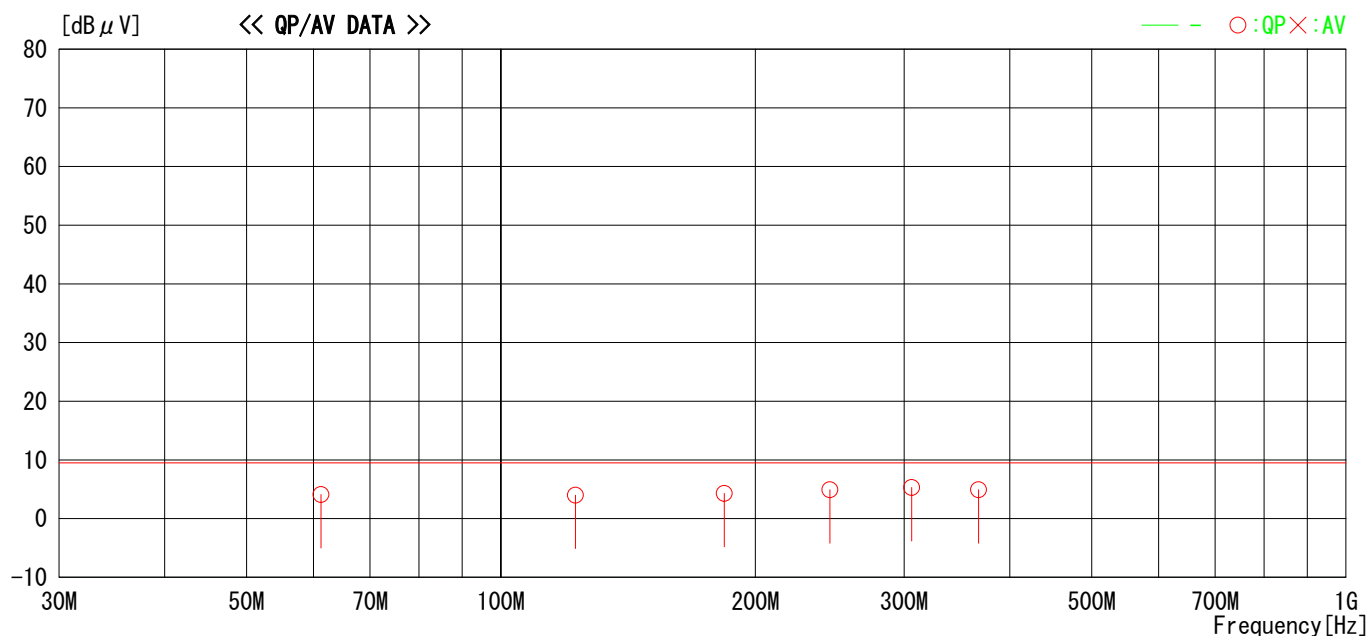
UL Apex Co., Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : D-VR5SU
TEMP./HUMID. : 23°C/39%

REPORT NO : 26GE0303-YW-1
DATE : February 28, 2006
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Seigo Kakehi

OPERATION MODE : DVD Play+Rec. (3ch)

LIMIT : FCC15B ANTENNA TRANSFER SWITCH



NO	FREQ [MHz]	READING		C. F [dB]	RESULT		LIMIT		MARGIN		PHASE
		PEAK [dB μ V]	[dB μ V]		PEAK [dB μ V]	[dB μ V]	PEAK [dB μ V]	[dB μ V]	PEAK [dB]	[dB]	
1	61.2500	24.0	----	-19.9	4.1	----	9.5	----	5.4	----	-
2	122.5000	23.4	----	-19.4	4.0	----	9.5	----	5.5	----	-
3	183.7500	23.4	----	-19.1	4.3	----	9.5	----	5.2	----	-
4	245.0000	23.7	----	-18.8	4.9	----	9.5	----	4.6	----	-
5	306.2500	24.0	----	-18.7	5.3	----	9.5	----	4.2	----	-
6	367.5000	23.9	----	-19.0	4.9	----	9.5	----	4.6	----	-

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

DATA OF ANTENNA TRANSFER SWITCH TEST

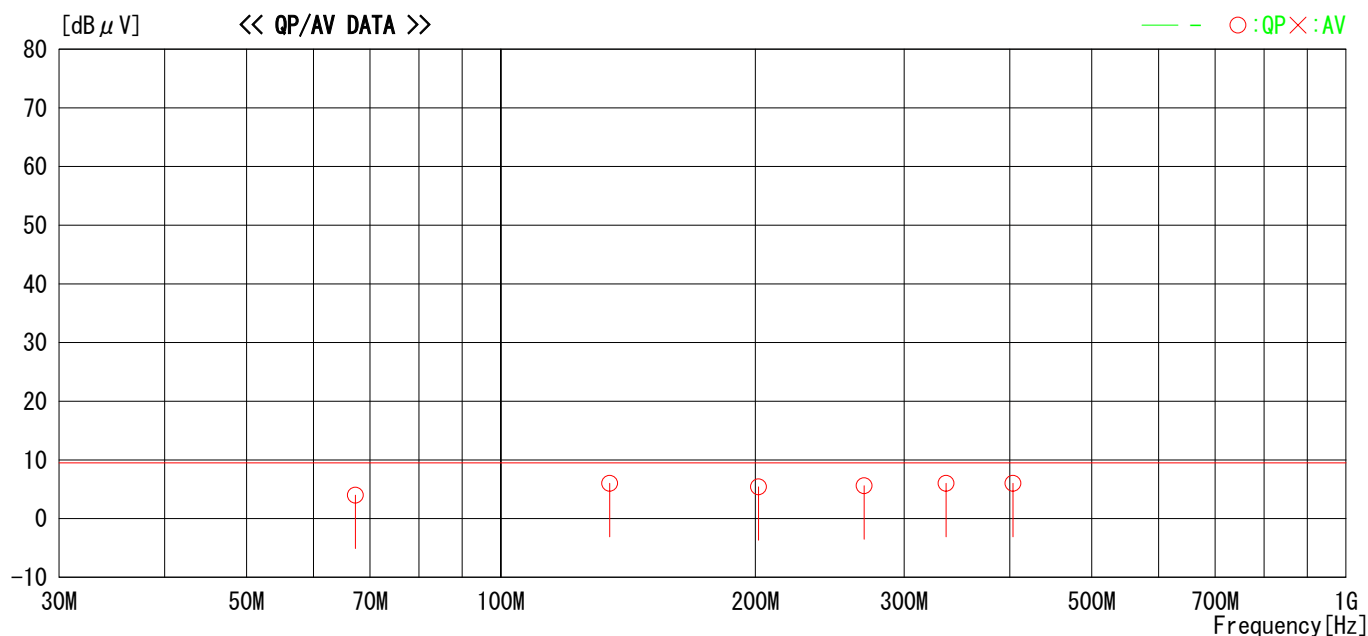
UL Apex Co., Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : D-VR5SU
TEMP./HUMID. : 23°C/39%

REPORT NO : 26GE0303-YW-1
DATE : February 28, 2006
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Seigo Kakehi

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]	PEAK [dB]	[dB]	
1	67.2500	23.9	----	-19.9	4.0	----	9.5	----	5.5	----	-
2	134.5000	25.4	----	-19.4	6.0	----	9.5	----	3.5	----	-
3	201.7500	24.4	----	-19.0	5.4	----	9.5	----	4.1	----	-
4	269.0000	24.3	----	-18.7	5.6	----	9.5	----	3.9	----	-
5	336.2500	24.8	----	-18.8	6.0	----	9.5	----	3.5	----	-
6	403.5000	25.2	----	-19.2	6.0	----	9.5	----	3.5	----	-

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

DATA OF ANTENNA TRANSFER SWITCH TEST

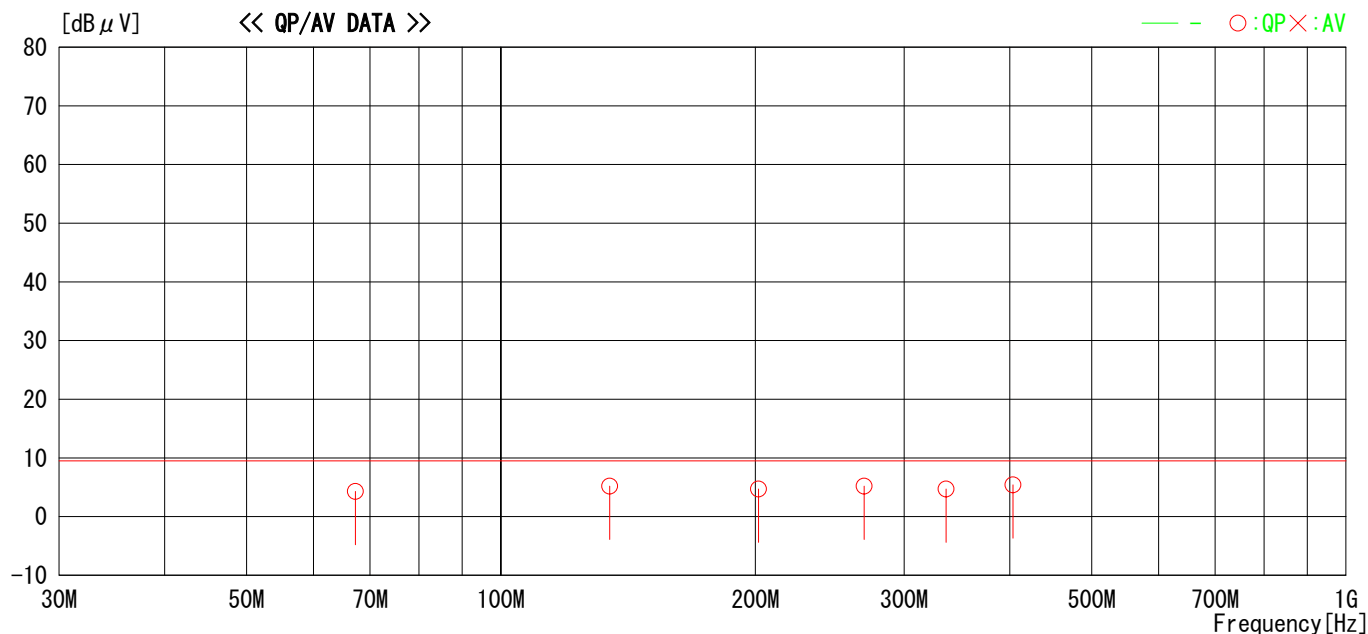
UL Apex Co., Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : D-VR5SU
TEMP./HUMID. : 23°C/39%

REPORT NO : 26GE0303-YW-1
DATE : February 28, 2006
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Seigo Kakehi

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]	PEAK [dB]	[dB]	
1	67.2500	24.2	----	-19.9	4.3	----	9.5	----	5.2	----	-
2	134.5000	24.6	----	-19.4	5.2	----	9.5	----	4.3	----	-
3	201.7500	23.7	----	-19.0	4.7	----	9.5	----	4.8	----	-
4	269.0000	23.9	----	-18.7	5.2	----	9.5	----	4.3	----	-
5	336.2500	23.5	----	-18.8	4.7	----	9.5	----	4.8	----	-
6	403.5000	24.6	----	-19.2	5.4	----	9.5	----	4.1	----	-

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

DATA OF ANTENNA TRANSFER SWITCH TEST

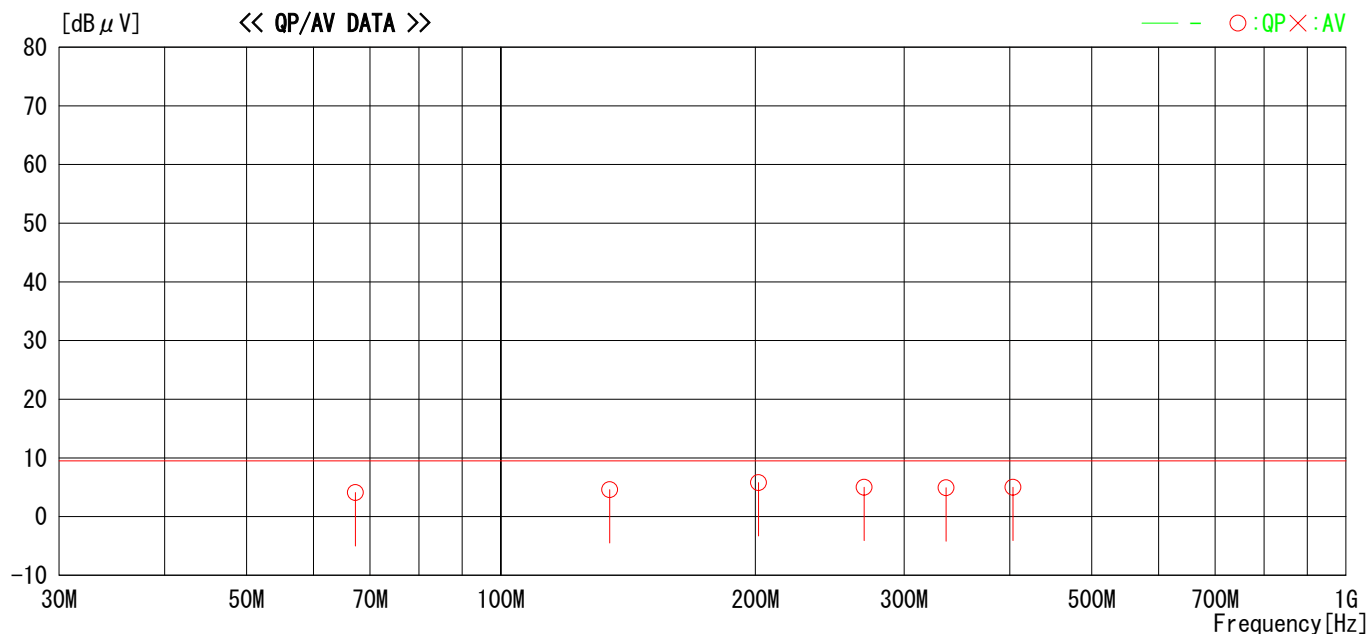
UL Apex Co., Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : D-VR5SU
TEMP./HUMID. : 23°C/39%

REPORT NO : 26GE0303-YW-1
DATE : February 28, 2006
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Seigo Kakehi

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

LIMIT : FCC15B ANTENNA TRANSFER SWITCH



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

DATA OF ANTENNA TRANSFER SWITCH TEST

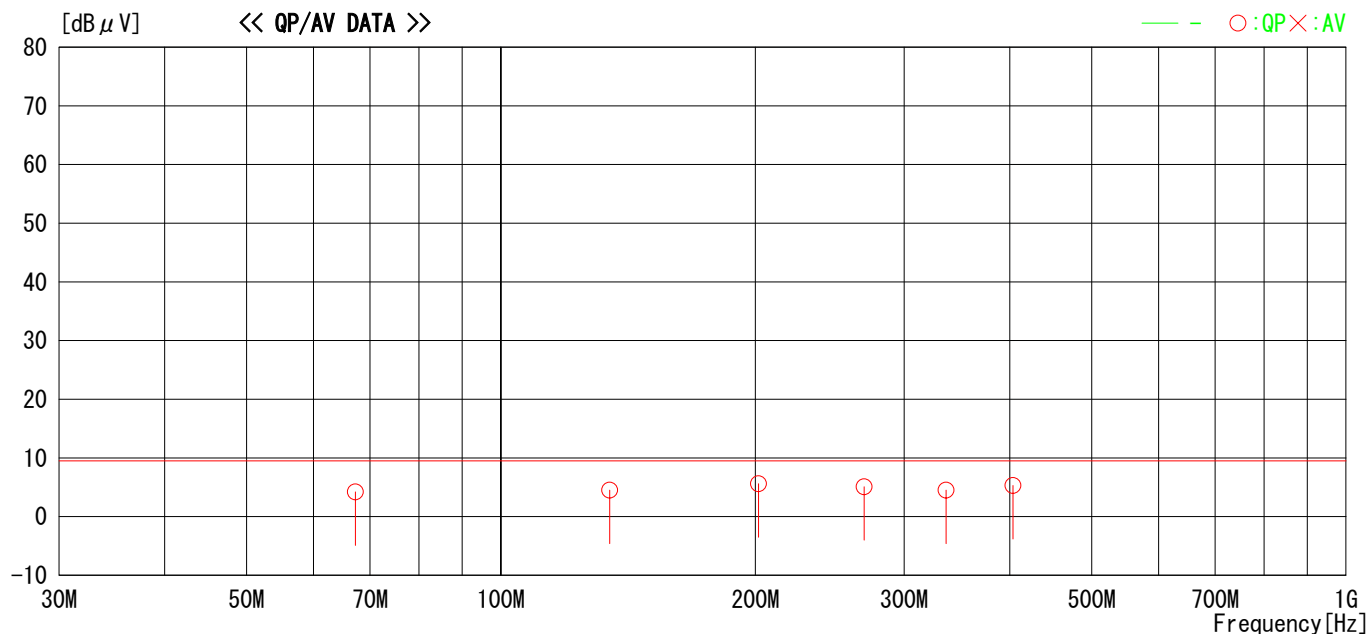
UL Apex Co., Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : D-VR5SU
TEMP./HUMID. : 23°C/39%

REPORT NO : 26GE0303-YW-1
DATE : February 28, 2006
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Seigo Kakehi

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]	PEAK [dB]	[dB]	
1	67.2500	24.1	----	-19.9	4.2	----	9.5	----	5.3	----	-
2	134.5000	23.9	----	-19.4	4.5	----	9.5	----	5.0	----	-
3	201.7500	24.6	----	-19.0	5.6	----	9.5	----	3.9	----	-
4	269.0000	23.8	----	-18.7	5.1	----	9.5	----	4.4	----	-
5	336.2500	23.3	----	-18.8	4.5	----	9.5	----	5.0	----	-
6	403.5000	24.5	----	-19.2	5.3	----	9.5	----	4.2	----	-

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

DATA OF ANTENNA TRANSFER SWITCH TEST

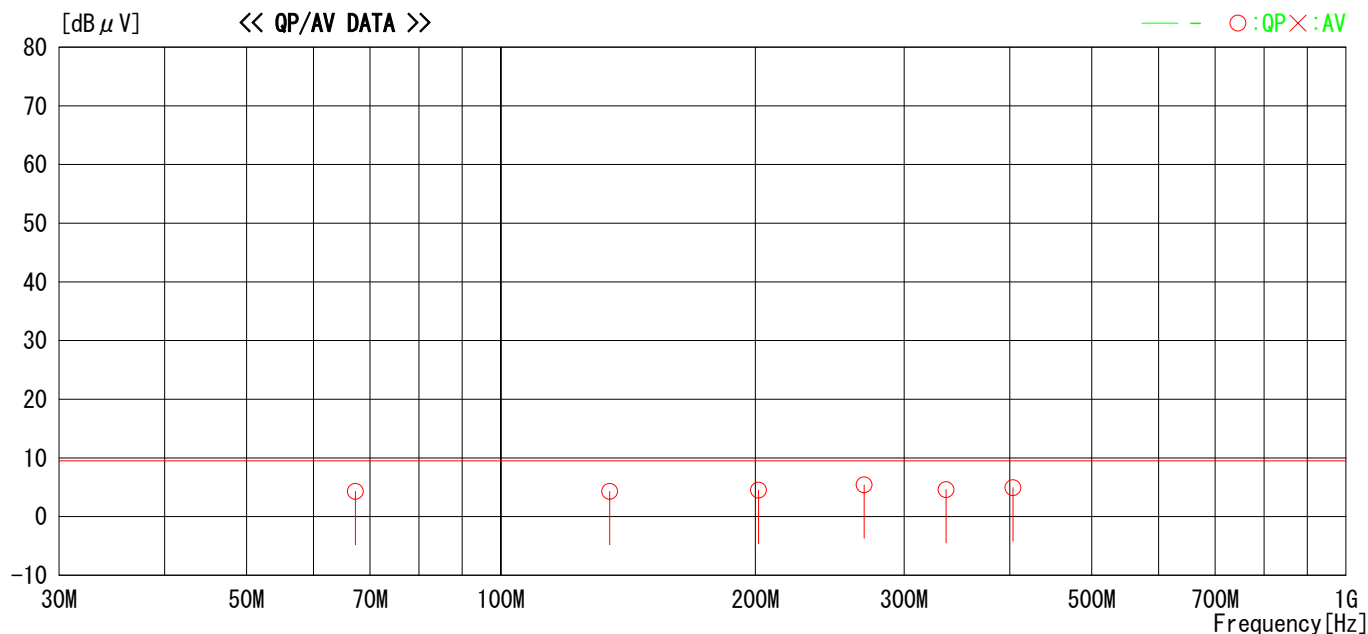
UL Apex Co., Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : D-VR5SU
TEMP./HUMID. : 23°C/39%

REPORT NO : 26GE0303-YW-1
DATE : February 28, 2006
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Seigo Kakehi

OPERATION MODE : i-Link Input+Rec. (4ch)

LIMIT : FCC15B ANTENNA TRANSFER SWITCH



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

DATA OF ANTENNA TRANSFER SWITCH TEST

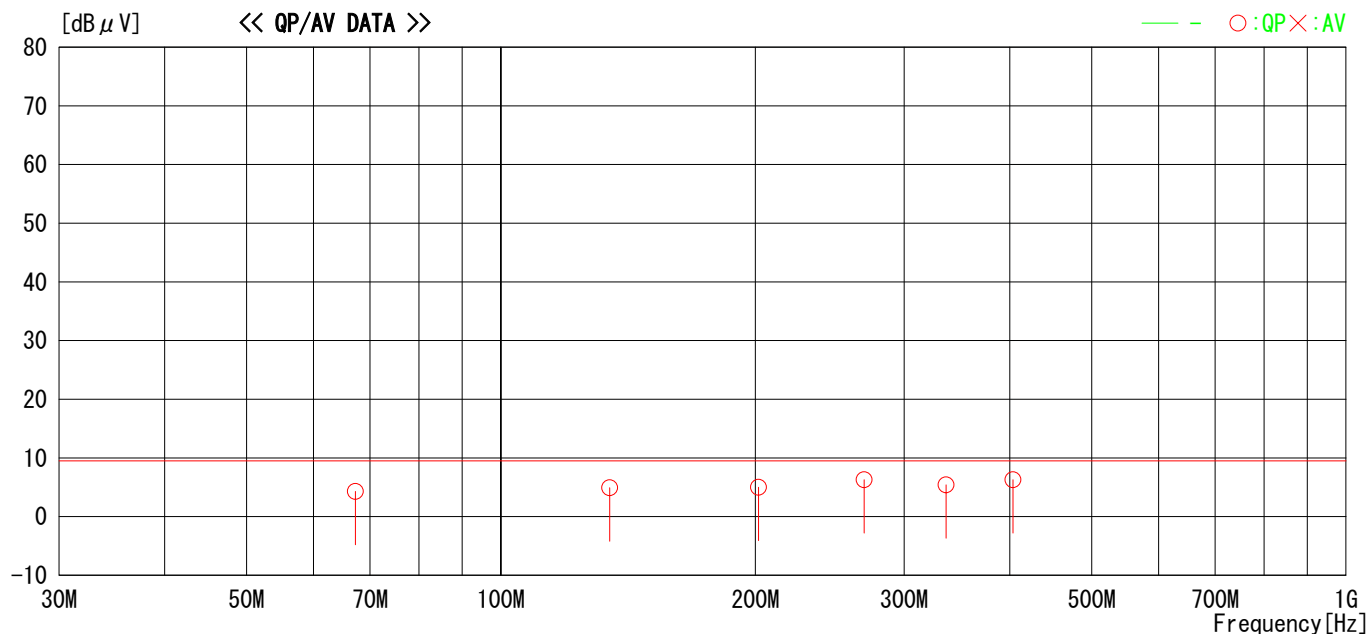
UL Apex Co., Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : D-VR5SU
TEMP./HUMID. : 23°C/39%

REPORT NO : 26GE0303-YW-1
DATE : February 28, 2006
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Seigo Kakehi

OPERATION MODE : VCR Play+Rec. (4ch)

LIMIT : FCC15B ANTENNA TRANSFER SWITCH



NO	FREQ [MHz]	READING		C. F [dB]	RESULT		LIMIT		MARGIN		PHASE
		PEAK [dB μ V]	[dB μ V]		PEAK [dB μ V]	[dB μ V]	PEAK [dB μ V]	[dB μ V]	PEAK [dB]	[dB]	
1	67.2500	24.2	----	-19.9	4.3	----	9.5	----	5.2	----	-
2	134.5000	24.3	----	-19.4	4.9	----	9.5	----	4.6	----	-
3	201.7500	24.0	----	-19.0	5.0	----	9.5	----	4.5	----	-
4	269.0000	25.0	----	-18.7	6.3	----	9.5	----	3.2	----	-
5	336.2500	24.2	----	-18.8	5.4	----	9.5	----	4.1	----	-
6	403.5000	25.5	----	-19.2	6.3	----	9.5	----	3.2	----	-

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

DATA OF ANTENNA TRANSFER SWITCH TEST

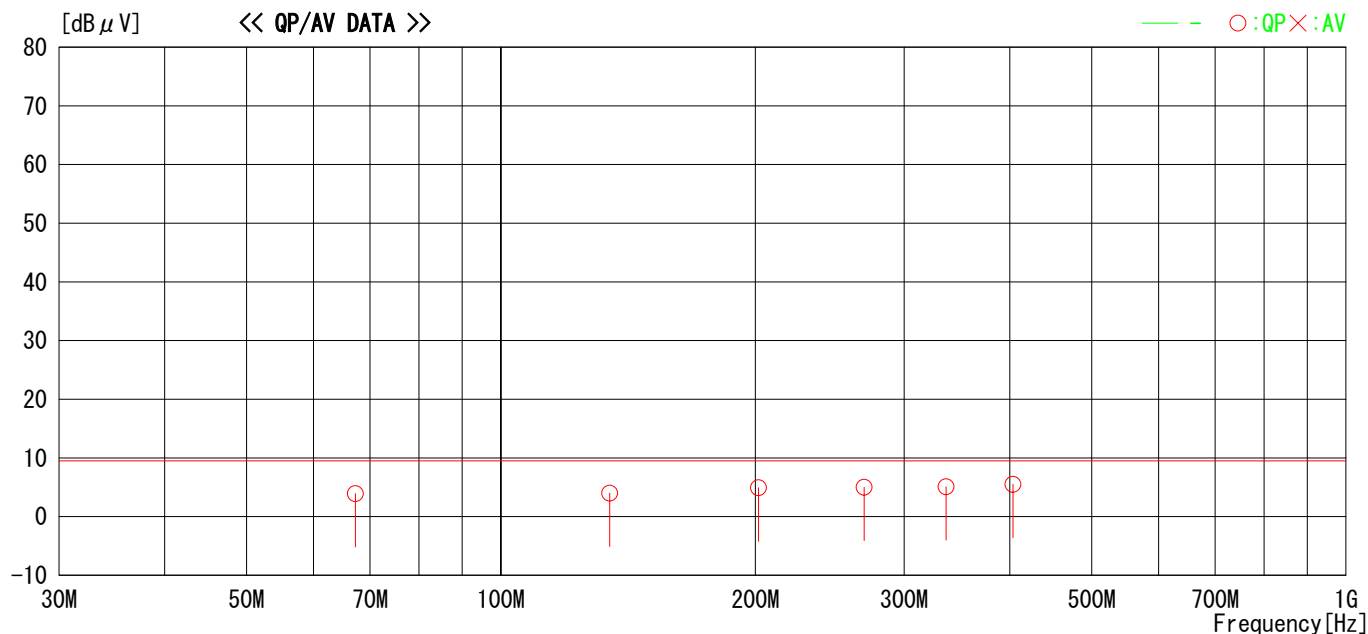
UL Apex Co., Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : D-VR5SU
TEMP./HUMID. : 23°C/39%

REPORT NO : 26GE0303-YW-1
DATE : February 28, 2006
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Seigo Kakehi

OPERATION MODE : DVD Play+Rec. (4ch)

LIMIT : FCC15B ANTENNA TRANSFER SWITCH



NO	FREQ [MHz]	READING		C. F [dB]	RESULT		LIMIT		MARGIN		PHASE
		PEAK [dB μ V]	[dB μ V]		PEAK [dB μ V]	[dB μ V]	PEAK [dB μ V]	[dB μ V]	PEAK [dB]	[dB]	
1	67.2500	23.8	----	-19.9	3.9	----	9.5	----	5.6	----	-
2	134.5000	23.4	----	-19.4	4.0	----	9.5	----	5.5	----	-
3	201.7500	23.9	----	-19.0	4.9	----	9.5	----	4.6	----	-
4	269.0000	23.7	----	-18.7	5.0	----	9.5	----	4.5	----	-
5	336.2500	23.9	----	-18.8	5.1	----	9.5	----	4.4	----	-
6	403.5000	24.7	----	-19.2	5.5	----	9.5	----	4.0	----	-

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 : D-VR5SU
Power : 120V/60Hz
Description : TV Reception
Remarks : -

Report Number : 26GE0303-YW-1
Regulation : FCC Part15 SubpartB
Date : February 22,2006
Temp / Humid : 24deg.C / 32%
Engineer : Seigo Kakehi

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	22.2	12.9
3	61.25	17.3	7.3	20	507.25	23.6	15.1
4	67.25	16.5	6.7	26	543.25	24.7	17.2
5	77.25	17.1	7.2	32	579.25	25.3	18.4
6	83.25	17.2	7.2	38	615.25	25.7	19.3
7	175.25	20.3	10.4	44	651.25	27.6	24.0
8	181.25	19.6	9.5	50	687.25	26.5	21.1
9	187.25	19.2	9.1	56	723.25	26.5	21.1
10	193.25	19.6	9.5	62	759.25	25.8	19.5
11	199.25	20.0	10.0	69	801.25	24.7	17.2
12	205.25	20.8	11.0	-	-	-	-
13	211.25	21.4	11.7	-	-	-	-
Average VHF			9.1	Average UHF			18.6
Average UHF/VHF : $20 \log \text{UHF}[\mu\text{V}] / \text{VHF}[\mu\text{V}] =$				6.2 [Limit : 8.0dB]			

Noise Figure Test

UL Apex Co.,Ltd.
Yokowa EMC Laboratory

Company : Orion Electric Co.,Ltd.
Equipment : DVD/VCR
Model Number : D-VR5SU
Power : 120V/60Hz
Description : TV Reception
Remarks : -

Report Number : 26GE0303-YW-1
Regulation : FCC Part15 SubpartB
Date : February 23,2006
Temp / Humid : 21deg.C / 41%
Engineer : Seigo Kakehi

Ch	Frequency [MHz]	Meter Reading [dB]	Correction Factor [dB]	Noise Figure [dB]	Limits [dB]	Margin [dB]
TV VHF Fundamental						
2	55.25	8.7	0.2	8.5	14.0	5.5
3	61.25	6.9	0.2	6.7	14.0	7.3
4	67.25	6.9	0.2	6.7	14.0	7.3
5	77.25	7.0	0.2	6.8	14.0	7.2
6	83.25	7.2	0.2	7.0	14.0	7.0
7	175.25	8.7	0.2	8.5	14.0	5.5
8	181.25	8.1	0.2	7.9	14.0	6.1
9	187.25	7.7	0.2	7.5	14.0	6.5
10	193.25	7.7	0.2	7.5	14.0	6.5
11	199.25	7.7	0.2	7.5	14.0	6.5
12	205.25	7.7	0.2	7.5	14.0	6.5
13	211.25	7.9	0.2	7.7	14.0	6.3
TV UHF Fundamental						
14	471.25	9.5	0.3	9.2	14.0	4.8
20	507.25	9.7	0.3	9.4	14.0	4.6
26	543.25	9.9	0.3	9.6	14.0	4.4
32	579.25	10.2	0.3	9.9	14.0	4.1
38	615.25	10.9	0.3	10.6	14.0	3.4
44	651.25	12.5	0.3	12.2	14.0	1.8
50	687.25	11.8	0.3	11.5	14.0	2.5
56	723.25	11.6	0.4	11.2	14.0	2.8
62	759.25	11.5	0.4	11.1	14.0	2.9
69	801.25	11.1	0.4	10.7	14.0	3.3
Mid band						
14	121.25	7.2	0.2	7.0	14.0	7.0
16	133.25	12.2	0.2	12.0	14.0	2.0
18	145.25	10.4	0.2	10.2	14.0	3.8
20	157.25	9.1	0.2	8.9	14.0	5.1
22	169.25	8.6	0.2	8.4	14.0	5.6
Super band						
23	217.25	8.1	0.2	7.9	14.0	6.1
26	235.25	8.6	0.2	8.4	14.0	5.6
29	253.25	9.2	0.2	9.0	14.0	5.0
32	271.25	9.8	0.2	9.6	14.0	4.4
36	295.25	10.2	0.2	10.0	14.0	4.0

APPENDIX 3

Test Instruments

Control No.	Instrument	Manufacturer	Model No	Test Item	Calibration Date * Interval(month)
APVBT01	VIDEO BOOSTER	UL Apex	-	RF, ATS, CE, RE	-
APTVG01	TV Generator	Leader	408NPS	RF, ATS, CE, RE	Pre Check
APSPA04	Spectrum Analyzer	Advantest	R3265	AT, RF, ATS, PS	2005/05/06 * 12
IP-06	Matching Pad	TME	ZT-301	PS, NF	2005/05/17 * 12
IP-03	Matching Pad	TME	ZT-130	AT, RF, ATS, PS	2005/09/30 * 12
APNFM02	Noise Figure Analyzer	Agilent	N8973A	NF	2005/08/25 * 12
APNFS02	Noise Source	Agilent	346A	NF	2005/08/02 * 12
AV01-01	Signal Generator	Rohde & Schwarz	SMY01	PS	2006/02/22 * 12
AF-05	Pre Amplifier	Hewlett Packard	8447D	AT, RF, ATS	2005/07/12 * 12
AF-06	Pre Amplifier	Agilent	HP8449B	AT	2005/12/03 * 12
CC-C4	Microwave Cable	Suhner	-	AT, RF, ATS	2005/12/12 * 12
OS-02	Digital Humidity Indicator	SATO	PC-5000TRH- II	RF, ATS, PS, NF, CE	2006/03/30 * 24
AF-07	Pre Amplifier	Agilent	HP8449B	RE	2006/03/15 * 12
HA-05	Horn Antenna	Schwarzbeck	BBHA9120D	RE	2006/03/29 * 12
SA-07	Spectrum Analyzer	Advantest	R3273	CE	2005/07/11 * 12
YOATS-02	Open Test Site	JSE	3m, 10m	RE	2005/05/01 * 12
OS-10	Digital Humidity Indicator	SATO	PC-5000TRH	RE	2004/05/06 * 24
CC-C3	Microwave Cable	-	-	RE	2005/12/12 * 12
AF-03	Pre Amplifier	Anritsu	MH648A	RE	2006/03/22 * 12
AT-04	Attenuator	Anritsu	MP721B	RE	2006/03/16 * 12
BA-04	Biconical Antenna	Schwarzbeck	BBA9106	RE	2006/03/28 * 12
LA-05	Logperiodic Antenna	Schwarzbeck	UHALP9108-A	RE	2005/10/15 * 12
LS-04	LISN(AMN)	Rohde & Schwarz	ESH3-Z5	CE	2005/12/01 * 12
LS-10	LISN(AMN)	Schwarzbeck	NSLK8127	CE (EUT)	2005/04/21 * 12
TR-01	Test Receiver	Rohde & Schwarz	ESHS20	CE	2005/12/26 * 12
TR-04	Test Receiver	Rohde & Schwarz	ESVS10	RE	2005/12/26 * 12
CC-2ORC	Yokowa No.2 open coaxial(0.01-1000MHz)	UL Apex	CC-21,CC-22,CC-23, CC-24,CC-25,CC-26, CC-27,SW-21,SW-22	RE	2006/03/22 * 12
CC-1S	Yokowa No.1 shield coaxial(0.01MHz-1000MHz)	UL Apex	CC-14,CC-15,CC-16,, CC-18,CC-19,SW-11, SW-12	CE	2006/03/15 * 12
YOATS-02	Open Test Site	JSE	3m, 10m	RE	2005/05/01 * 12
SA-05	Spectrum Analyzer	Advantest	R3271	RE	2005/12/13 * 12
AF-01	Pre Amplifier	Hewlett Packard	8447D	RE	2006/03/24 * 12
AT-06	Attenuator	Anritsu	MP721B	RE	2005/07/11 * 12
BA-06	Biconical Antenna	Schwarzbeck	BBA9106	RE	2006/01/29 * 12
LA-07	Logperiodic Antenna	Schwarzbeck	UKLP9140-A	RE	2006/01/29 * 12
SA-06	Spectrum Analyzer	Advantest	R3273	RE	2005/11/01 * 12
TR-06	Test Receiver	Rohde & Schwarz	ESVS10	RE	2005/11/01 * 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	2006/03/23 * 12
YOATS-03	Open Test Site	JSE	3m, 10m	RE	2005/05/04 * 12
APTVG01	TV Generator	Leader	408NPS	CE, RE	Pre Check
CC-C5	Microwave Cable	Suhner/storm	-	RE	2005/12/12 * 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