

# DATA OF CONDUCTION TEST

UL Apex Co., Ltd.

YOKOWA No.1 SHIELD TEST ROOM

Report No.: 24KE0259-YW-1

Applicant : Orion Electric Co.,Ltd.  
Kind of Equipment : DVD-RW/VCR  
Model No. : DVR-RT500-S  
Serial No. : -  
Power : AC120V/60Hz  
Mode : TV Reception+Rec  
Remarks : 0dBmV  
Date : 7/2/2004  
Phase : Single Phase  
Temperature : 24  
Humidity : 68 %  
Regulation : FCC Part15B CLASS B(2003)

Engineer : Tsubasa Takayama

| No. | FREQ.<br>[MHz] | READING(N)     |                | READING(L1)    |                | LISN<br>FACTOR<br>[dB] | CABLE<br>LOSS<br>[dB] | ATTEN.<br>[dB] | RESULT     |                | LIMITS         |                | MARGIN         |            |
|-----|----------------|----------------|----------------|----------------|----------------|------------------------|-----------------------|----------------|------------|----------------|----------------|----------------|----------------|------------|
|     |                | QP<br>[dB μ V] | AV<br>[dB μ V] | QP<br>[dB μ V] | AV<br>[dB μ V] |                        |                       |                | QP<br>[dB] | AV<br>[dB μ V] | QP<br>[dB μ V] | AV<br>[dB μ V] | QP<br>[dB μ V] | AV<br>[dB] |
| 1.  | 0.1672         | 47.0           | -              | 46.5           | -              | 0.1                    | 0.1                   | 0.0            | 47.2       | -              | 65.1           | 55.1           | 17.9           | -          |
| 2.  | 0.3347         | 33.7           | -              | 35.6           | -              | 0.1                    | 0.1                   | 0.0            | 35.8       | -              | 59.3           | 49.3           | 23.5           | -          |
| 3.  | 0.5839         | 37.3           | -              | 35.9           | -              | 0.1                    | 0.2                   | 0.0            | 37.6       | -              | 56.0           | 46.0           | 18.4           | -          |
| 4.  | 0.8364         | 37.2           | -              | 34.7           | -              | 0.1                    | 0.2                   | 0.0            | 37.5       | -              | 56.0           | 46.0           | 18.5           | -          |
| 5.  | 1.0895         | 32.0           | -              | 30.8           | -              | 0.1                    | 0.2                   | 0.0            | 32.3       | -              | 56.0           | 46.0           | 23.7           | -          |
| 6.  | 2.4259         | 36.5           | -              | 35.4           | -              | 0.1                    | 0.3                   | 0.0            | 36.9       | -              | 56.0           | 46.0           | 19.1           | -          |
| 7.  | 28.6364        | 31.7           | -              | 31.8           | -              | 0.7                    | 0.9                   | 0.0            | 33.4       | -              | 60.0           | 50.0           | 26.6           | -          |

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

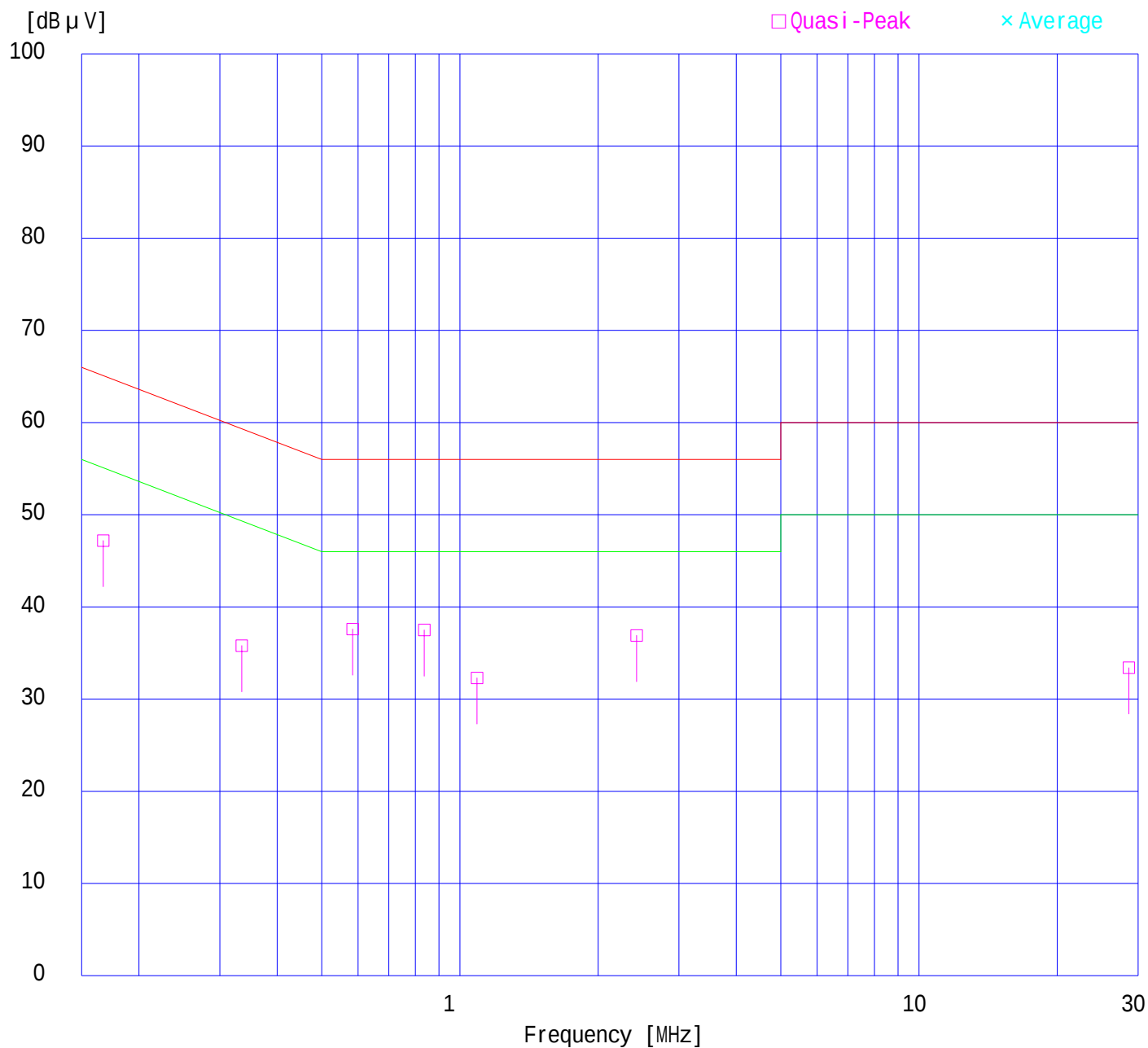
Except for the above table: adequate margin data below the limits.

# DATA OF CONDUCTION TEST

UL Apex Co., Ltd.  
YOKOWA No.1 SHIELD TEST ROOM  
Report No.: 24KE0259-YW-1

Applicant : Orion Electric Co.,Ltd.  
Kind of Equipment : DVD-RW/VCR  
Model No. : DVR-RT500-S  
Serial No. : -  
Power : AC120V/60Hz  
Mode : TV Reception+Rec  
Remarks : 0dBmV  
Date : 7/2/2004  
Phase : Single Phase  
Temperature : 24  
Humidity : 68 %  
Regulation : FCC Part15B CLASS B(2003)

Engineer : Tsubasa Takayama



# DATA OF CONDUCTION TEST CHART

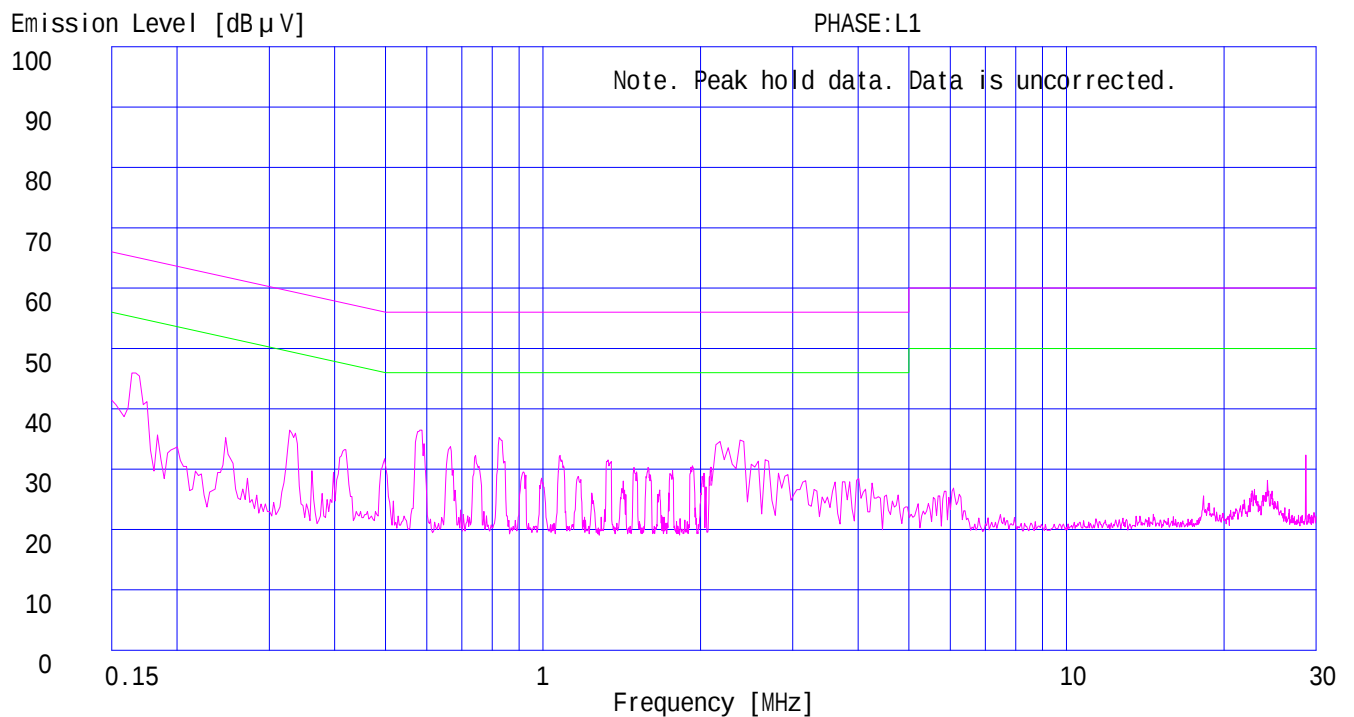
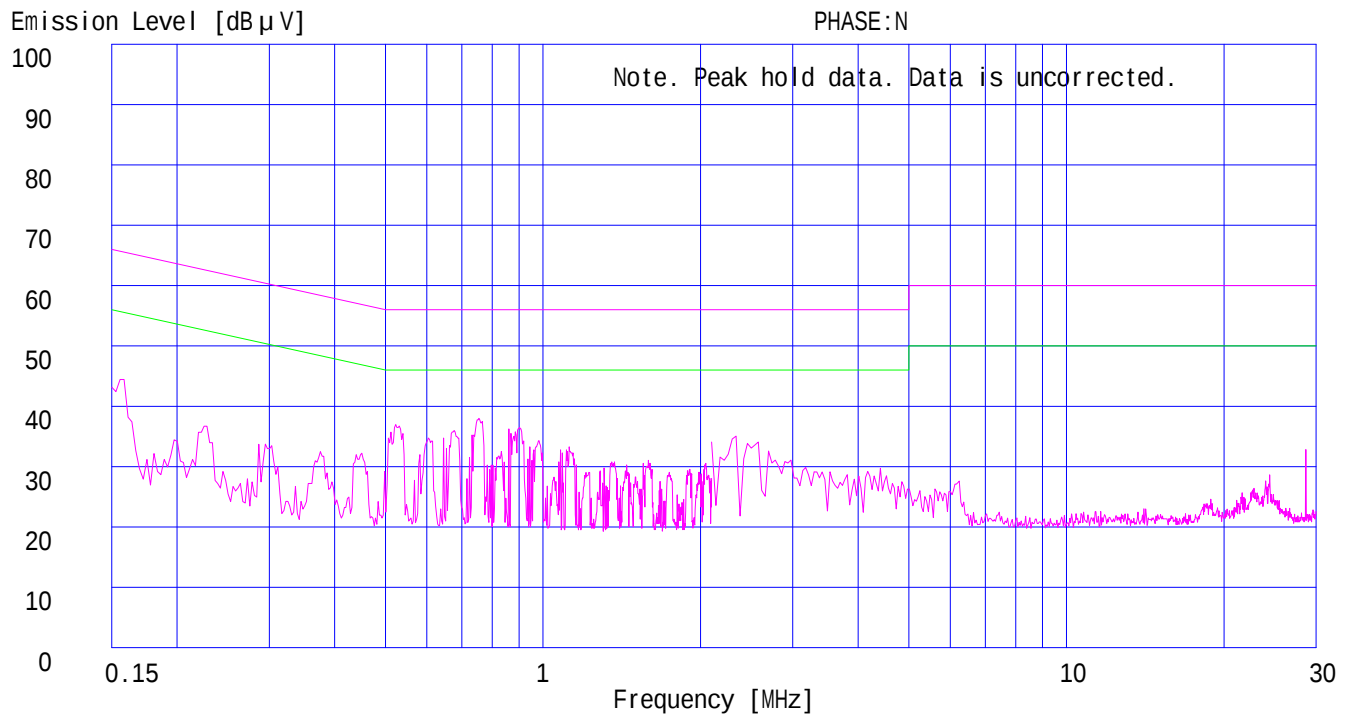
UL Apex Co., Ltd.

YOKOWA No.1 SHIELD TEST ROOM

Report No.: 24KE0259-YW-1

Applicant : Orion Electric Co.,Ltd.  
Kind of Equipment : DVD-RW/VCR  
Model No. : DVR-RT500-S  
Serial No. : -  
Power : AC120V/60Hz  
Mode : TV Reception+Rec  
Remarks : 0dBmV  
Date : 7/2/2004  
Phase : Single Phase  
Temperature : 24  
Humidity : 68 %  
Regulation 1 : FCC Part15B CLASS B(2003)  
Regulation 2 : None

Engineer : Tsubasa Takayama



# DATA OF CONDUCTION TEST

UL Apex Co., Ltd.  
YOKOWA No.1 SHIELD TEST ROOM  
Report No.: 24KE0259-YW-1

|                   |                             |          |                    |
|-------------------|-----------------------------|----------|--------------------|
| Applicant         | : Orion Electric Co.,Ltd.   |          |                    |
| Kind of Equipment | : DVD-RW/VCR                |          |                    |
| Model No.         | : DVR-RT500-S               |          |                    |
| Serial No.        | : -                         |          |                    |
| Power             | : AC120V/60Hz               |          |                    |
| Mode              | : TV Reception+Rec          |          |                    |
| Remarks           | : 25dBmV                    |          |                    |
| Date              | : 7/2/2004                  |          |                    |
| Phase             | : Single Phase              |          |                    |
| Temperature       | : 24                        | Engineer | : Tsubasa Takayama |
| Humidity          | : 68 %                      |          |                    |
| Regulation        | : FCC Part15B CLASS B(2003) |          |                    |

| No. | FREQ.<br>[MHz] | READING(N) |    | READING(L1) |    | LISN<br>FACTOR<br>[dB] | CABLE<br>LOSS<br>[dB] | ATTEN.<br>[dB] | RESULT |    | LIMITS   |      | MARGIN   |      |
|-----|----------------|------------|----|-------------|----|------------------------|-----------------------|----------------|--------|----|----------|------|----------|------|
|     |                | QP         | AV | QP          | AV |                        |                       |                | QP     | AV | QP       | AV   | QP       | AV   |
|     |                | [dB μ V]   |    | [dB μ V]    |    |                        |                       |                | [dB]   |    | [dB μ V] |      | [dB μ V] | [dB] |
| 1.  | 0.1691         | 48.4       | -  | 46.2        | -  | 0.1                    | 0.1                   | 0.0            | 48.6   | -  | 65.0     | 55.0 | 16.4     | -    |
| 2.  | 0.3373         | 33.2       | -  | 35.7        | -  | 0.1                    | 0.1                   | 0.0            | 35.9   | -  | 59.3     | 49.3 | 23.4     | -    |
| 3.  | 0.5925         | 36.4       | -  | 36.0        | -  | 0.1                    | 0.2                   | 0.0            | 36.7   | -  | 56.0     | 46.0 | 19.3     | -    |
| 4.  | 0.8453         | 37.5       | -  | 34.5        | -  | 0.1                    | 0.2                   | 0.0            | 37.8   | -  | 56.0     | 46.0 | 18.2     | -    |
| 5.  | 1.1010         | 32.7       | -  | 30.7        | -  | 0.1                    | 0.2                   | 0.0            | 33.0   | -  | 56.0     | 46.0 | 23.0     | -    |
| 6.  | 2.4467         | 34.5       | -  | 35.5        | -  | 0.1                    | 0.3                   | 0.0            | 35.9   | -  | 56.0     | 46.0 | 20.1     | -    |
| 7.  | 28.6347        | 31.1       | -  | 31.1        | -  | 0.7                    | 0.9                   | 0.0            | 32.7   | -  | 60.0     | 50.0 | 27.3     | -    |

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

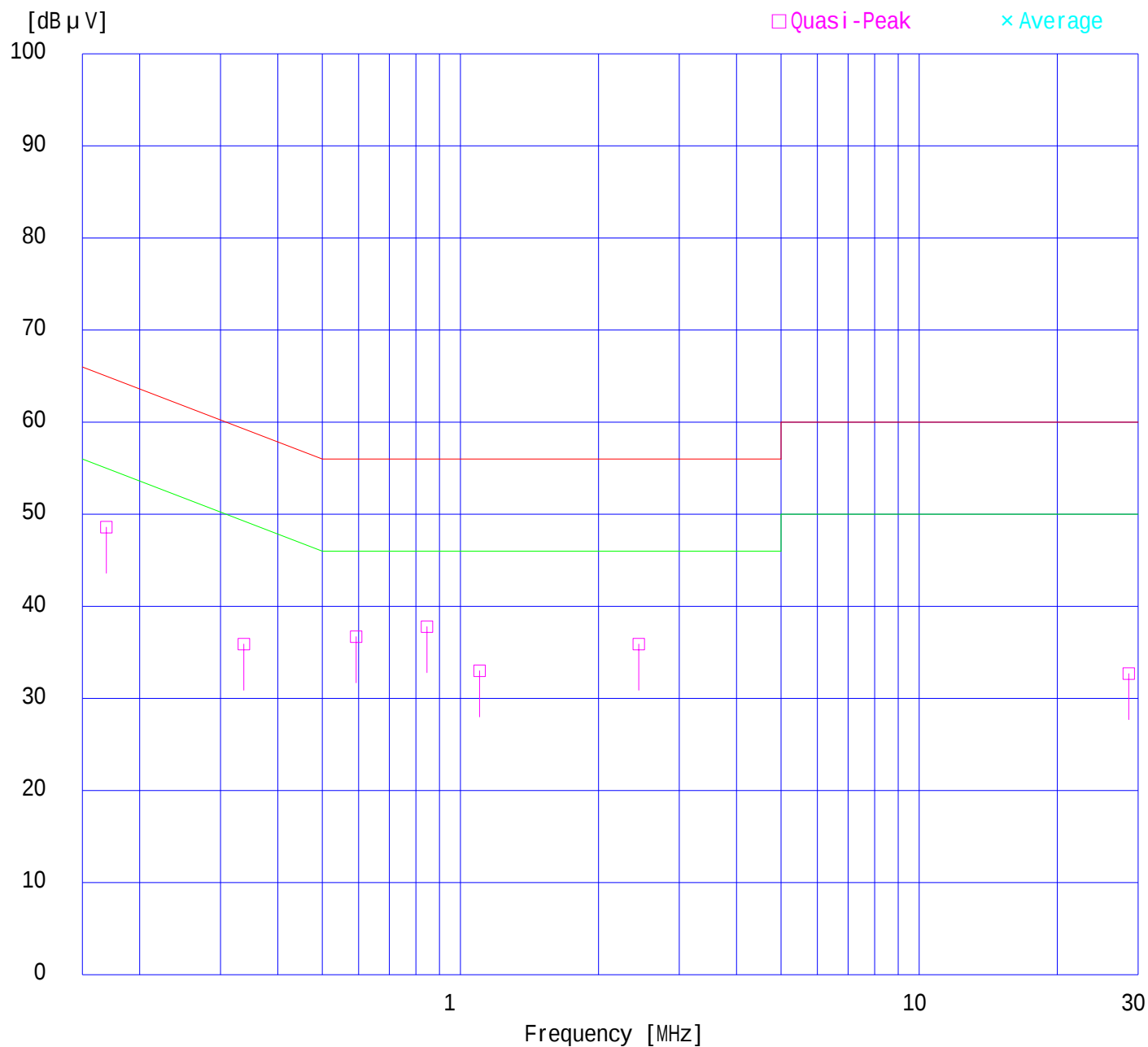
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Report No.: 24KE0259-YW-1

Applicant : Orion Electric Co.,Ltd.  
Kind of Equipment : DVD-RW/VCR  
Model No. : DVR-RT500-S  
Serial No. : -  
Power : AC120V/60Hz  
Mode : TV Reception+Rec  
Remarks : 25dBmV  
Date : 7/2/2004  
Phase : Single Phase  
Temperature : 24  
Humidity : 68 %  
Regulation : FCC Part15B CLASS B(2003)

Engineer : Tsubasa Takayama



# DATA OF CONDUCTION TEST CHART

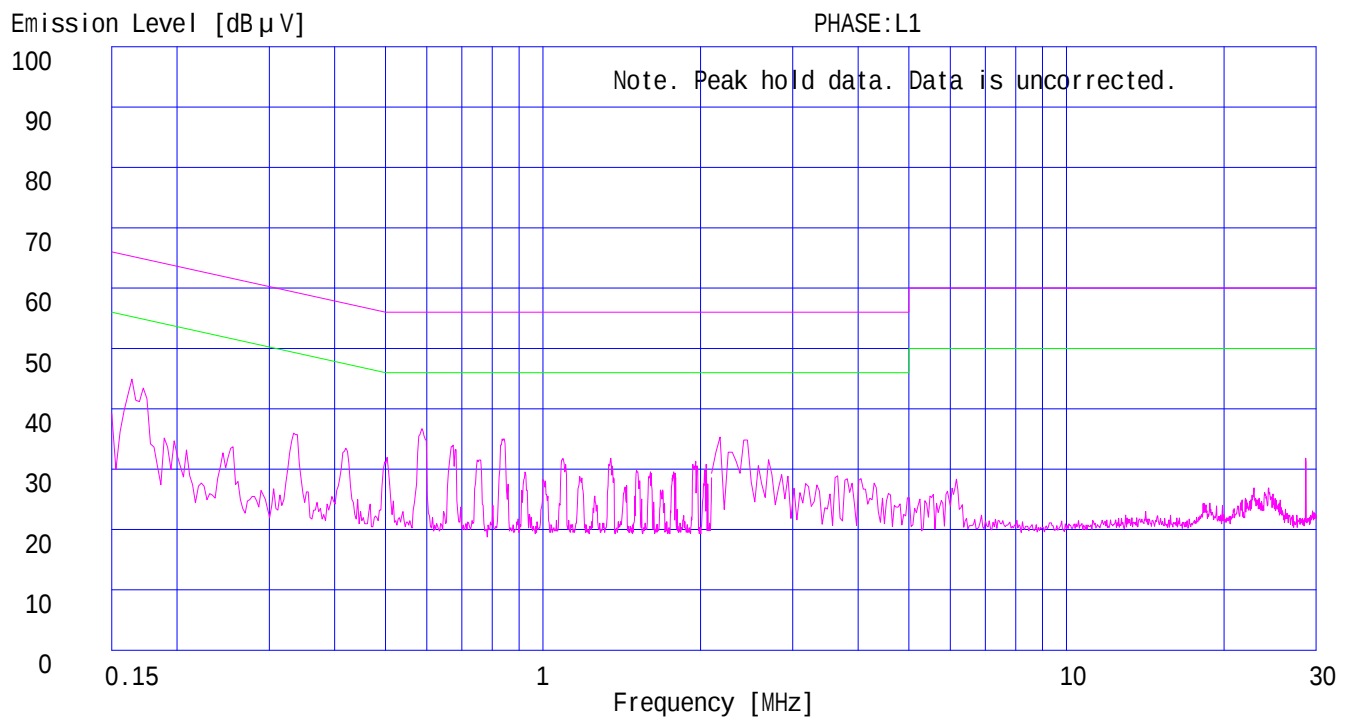
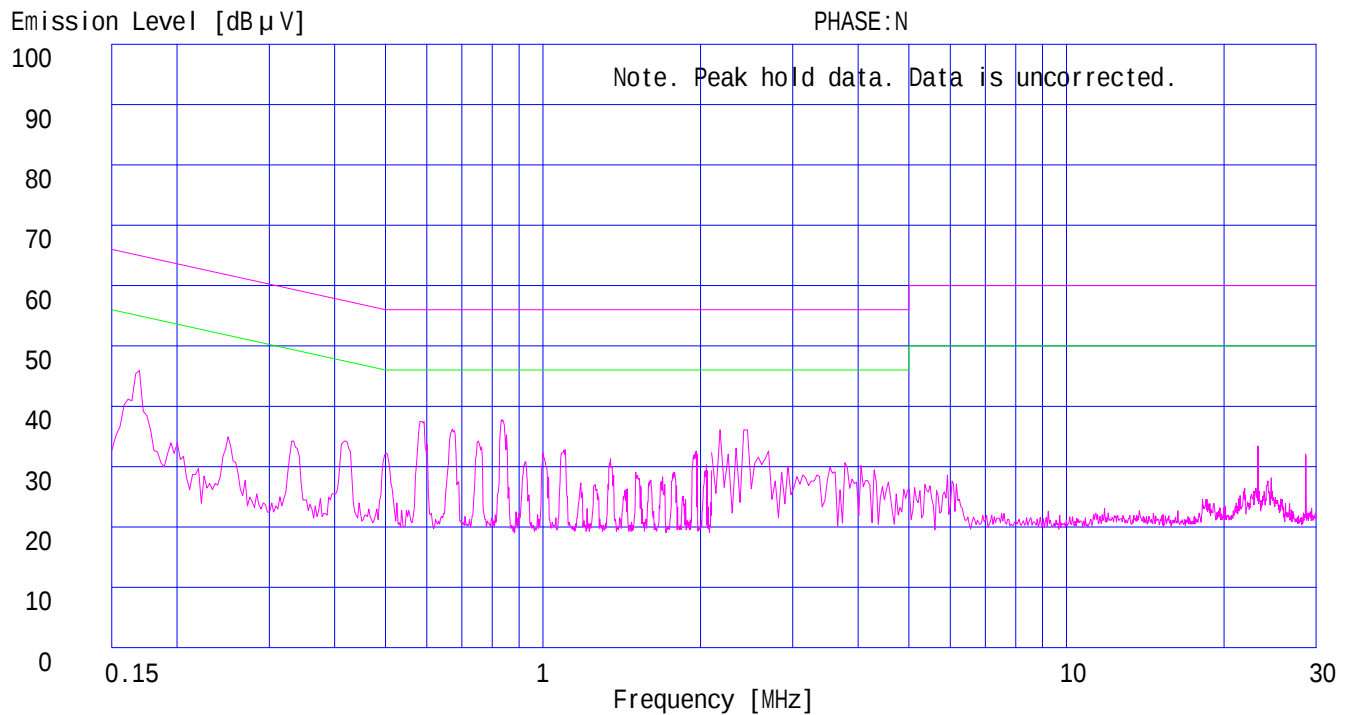
UL Apex Co., Ltd.

YOKOWA No.1 SHIELD TEST ROOM

Report No.: 24KE0259-YW-1

Applicant : Orion Electric Co.,Ltd.  
Kind of Equipment : DVD-RW/VCR  
Model No. : DVR-RT500-S  
Serial No. : -  
Power : AC120V/60Hz  
Mode : TV Reception+Rec  
Remarks : 25dBmV  
Date : 7/2/2004  
Phase : Single Phase  
Temperature : 24  
Humidity : 68 %  
Regulation 1 : FCC Part15B CLASS B(2003)  
Regulation 2 : None

Engineer : Tsubasa Takayama



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UL Apex Co., Ltd.

YOKOWA No.1 SHIELD TEST ROOM

Report No.: 24KE0259-YW-1

Applicant : Orion Electric Co.,Ltd.  
Kind of Equipment : DVD-RW/VCR  
Model No. : DVR-RT500-S  
Serial No. : -  
Power : AC120V/60Hz  
Mode : AV1 Input+Rec  
Remarks : 1Vp-p  
Date : 7/2/2004  
Phase : Single Phase  
Temperature : 24  
Humidity : 68 %  
Regulation : FCC Part15B CLASS B(2003)

Engineer : Tsubasa Takayama

| No. | FREQ.<br>[MHz] | READING(N)    |               | READING(L1)   |               | LISN<br>FACTOR<br>[dB] | CABLE<br>LOSS<br>[dB] | ATTEN.<br>[dB] | RESULT     |               | LIMITS        |               | MARGIN        |            |
|-----|----------------|---------------|---------------|---------------|---------------|------------------------|-----------------------|----------------|------------|---------------|---------------|---------------|---------------|------------|
|     |                | QP<br>[dB μV] | AV<br>[dB μV] | QP<br>[dB μV] | AV<br>[dB μV] |                        |                       |                | QP<br>[dB] | AV<br>[dB μV] | QP<br>[dB μV] | AV<br>[dB μV] | QP<br>[dB μV] | AV<br>[dB] |
| 1.  | 0.2069         | 38.8          | -             | 38.7          | -             | 0.1                    | 0.1                   | 0.0            | 39.0       | -             | 63.3          | 53.3          | 24.3          | -          |
| 2.  | 0.4861         | 35.6          | -             | 34.3          | -             | 0.1                    | 0.1                   | 0.0            | 35.8       | -             | 56.2          | 46.2          | 20.4          | -          |
| 3.  | 0.6958         | 36.9          | -             | 34.6          | -             | 0.1                    | 0.2                   | 0.0            | 37.2       | -             | 56.0          | 46.0          | 18.8          | -          |
| 4.  | 0.8253         | 37.0          | -             | 34.8          | -             | 0.1                    | 0.2                   | 0.0            | 37.3       | -             | 56.0          | 46.0          | 18.7          | -          |
| 5.  | 1.4598         | 30.5          | -             | 31.2          | -             | 0.1                    | 0.2                   | 0.0            | 31.5       | -             | 56.0          | 46.0          | 24.5          | -          |
| 6.  | 2.4874         | 32.7          | -             | 31.6          | -             | 0.1                    | 0.3                   | 0.0            | 33.1       | -             | 56.0          | 46.0          | 22.9          | -          |
| 7.  | 28.6343        | 31.2          | -             | 31.2          | -             | 0.7                    | 0.9                   | 0.0            | 32.8       | -             | 60.0          | 50.0          | 27.2          | -          |

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

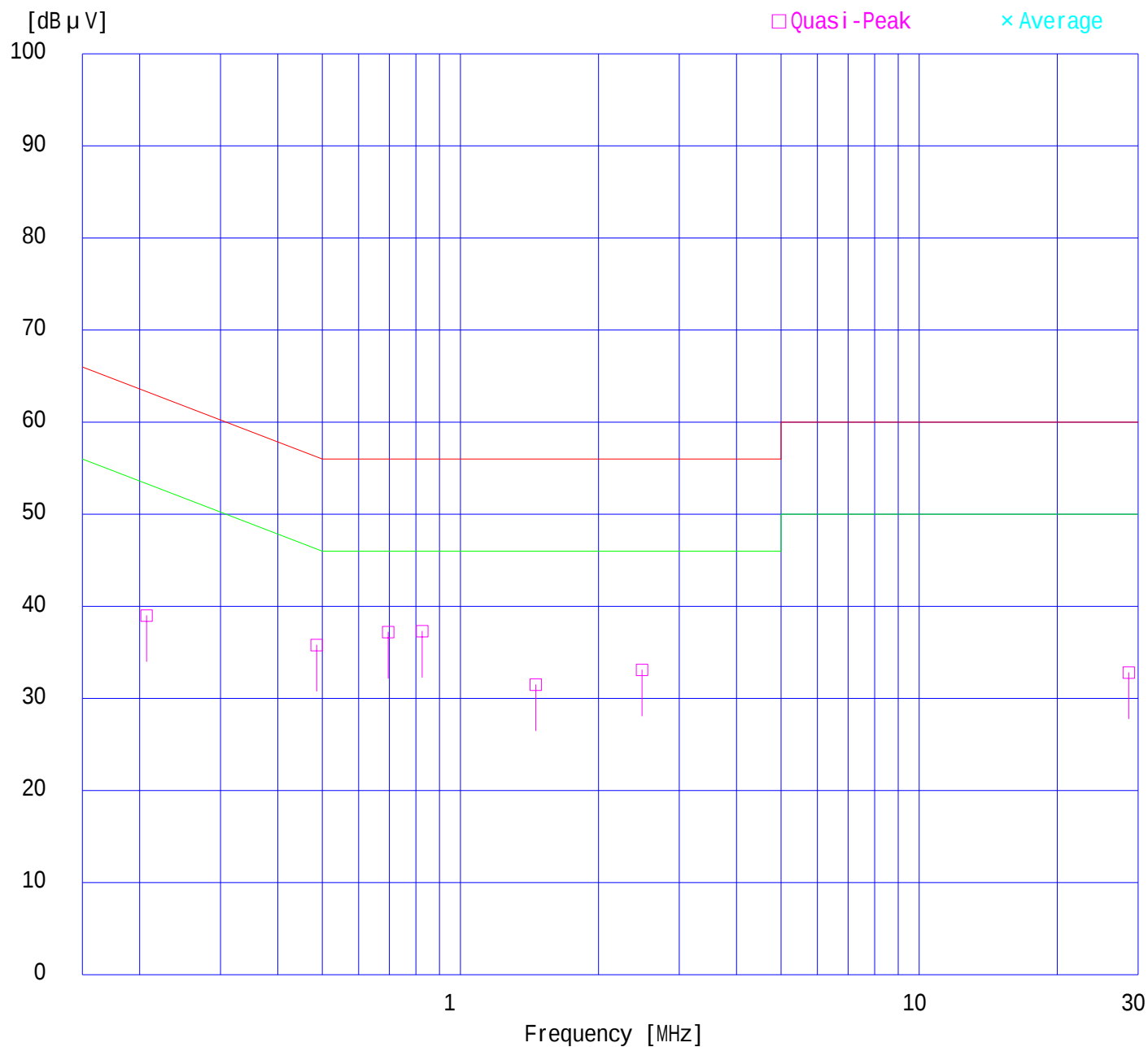
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Report No.: 24KE0259-YW-1

Applicant : Orion Electric Co.,Ltd.  
Kind of Equipment : DVD-RW/VCR  
Model No. : DVR-RT500-S  
Serial No. : -  
Power : AC120V/60Hz  
Mode : AV1 Input+Rec  
Remarks : 1Vp-p  
Date : 7/2/2004  
Phase : Single Phase  
Temperature : 24  
Humidity : 68 %  
Regulation : FCC Part15B CLASS B(2003)

Engineer : Tsubasa Takayama



# DATA OF CONDUCTION TEST CHART

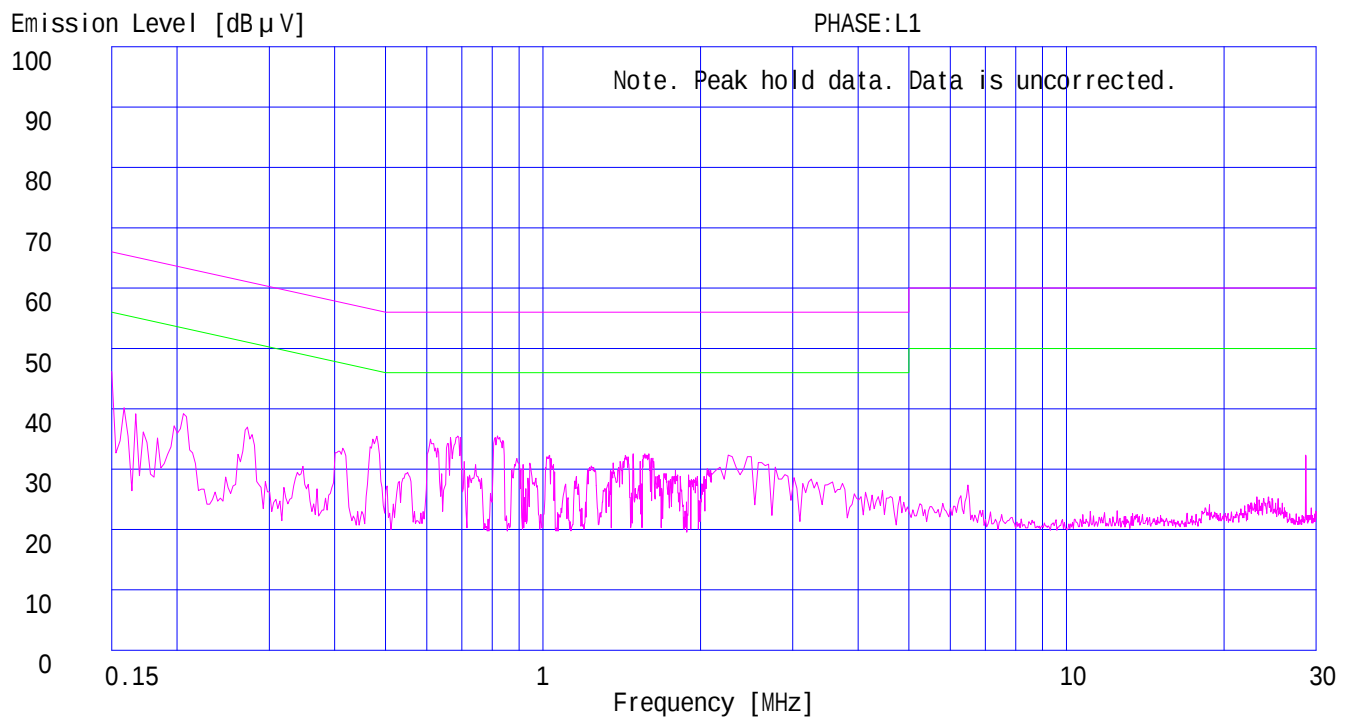
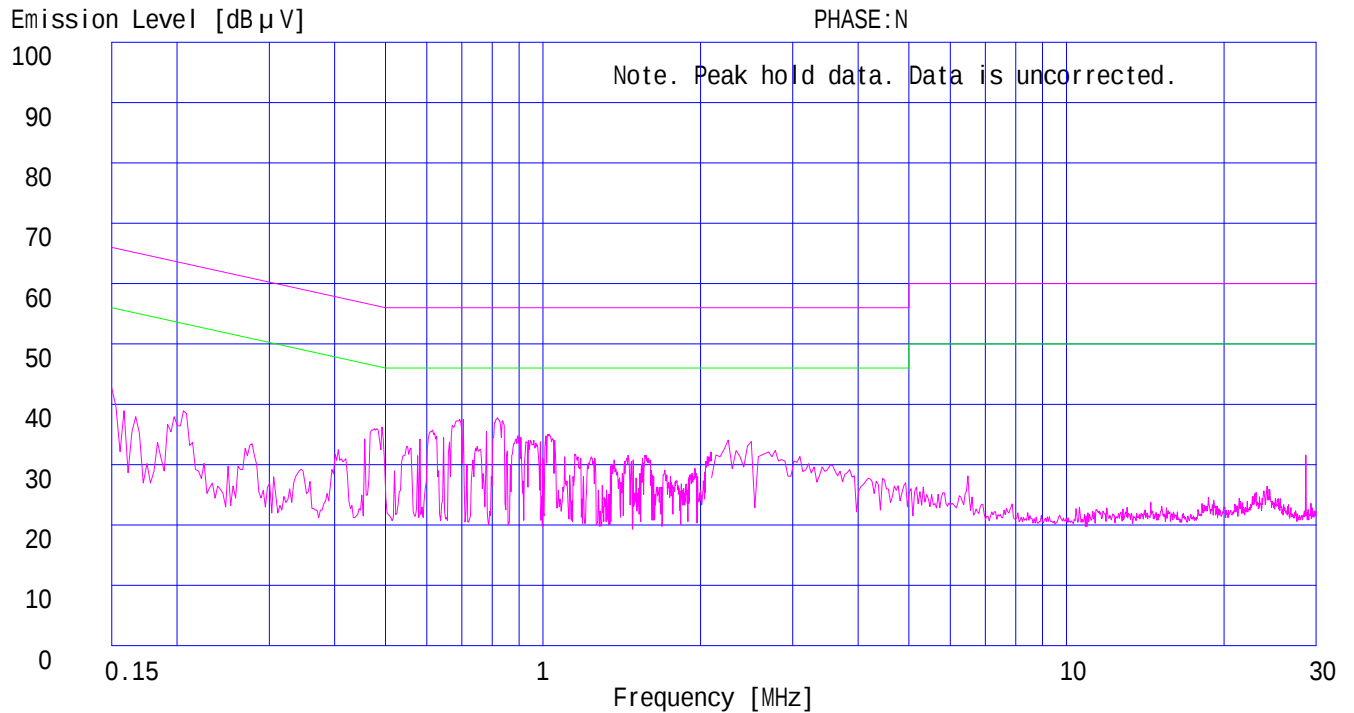
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Applicant : Orion Electric Co.,Ltd.  
Kind of Equipment : DVD-RW/VCR  
Model No. : DVR-RT500-S  
Serial No. : -  
Power : AC120V/60Hz  
Mode : AV1 Input+Rec  
Remarks : 1Vp-p  
Date : 7/2/2004  
Phase : Single Phase  
Temperature : 24  
Humidity : 68 %  
Regulation 1 : FCC Part15B CLASS B(2003)  
Regulation 2 : None

Engineer : Tsubasa Takayama



# DATA OF CONDUCTION TEST

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Report No.: 24KE0259-YW-1

Applicant : Orion Electric Co.,Ltd.  
Kind of Equipment : DVD-RW/VCR  
Model No. : DVR-RT500-S  
Serial No. : -  
Power : AC120V/60Hz  
Mode : AV1 Input+Rec  
Remarks : 5Vp-p  
Date : 7/2/2004  
Phase : Single Phase  
Temperature : 24  
Humidity : 68 %  
Regulation : FCC Part15B CLASS B(2003)

Engineer : Tsubasa Takayama

| No. | FREQ.<br>[MHz] | READING(N)    |               | READING(L1)   |               | LISN<br>FACTOR<br>[dB] | CABLE<br>LOSS<br>[dB] | ATTEN.<br>[dB] | RESULT     |               | LIMITS        |               | MARGIN        |            |
|-----|----------------|---------------|---------------|---------------|---------------|------------------------|-----------------------|----------------|------------|---------------|---------------|---------------|---------------|------------|
|     |                | QP<br>[dB μV] | AV<br>[dB μV] | QP<br>[dB μV] | AV<br>[dB μV] |                        |                       |                | QP<br>[dB] | AV<br>[dB μV] | QP<br>[dB μV] | AV<br>[dB μV] | QP<br>[dB μV] | AV<br>[dB] |
| 1.  | 0.2076         | 39.0          | -             | 38.7          | -             | 0.1                    | 0.1                   | 0.0            | 39.2       | -             | 63.3          | 53.3          | 24.1          | -          |
| 2.  | 0.4870         | 35.6          | -             | 34.3          | -             | 0.1                    | 0.1                   | 0.0            | 35.8       | -             | 56.2          | 46.2          | 20.4          | -          |
| 3.  | 0.7030         | 35.8          | -             | 34.5          | -             | 0.1                    | 0.2                   | 0.0            | 36.1       | -             | 56.0          | 46.0          | 19.9          | -          |
| 4.  | 0.8367         | 36.9          | -             | 34.5          | -             | 0.1                    | 0.2                   | 0.0            | 37.2       | -             | 56.0          | 46.0          | 18.8          | -          |
| 5.  | 1.5882         | 35.6          | -             | 31.6          | -             | 0.1                    | 0.2                   | 0.0            | 35.9       | -             | 56.0          | 46.0          | 20.1          | -          |
| 6.  | 2.4951         | 32.7          | -             | 31.4          | -             | 0.1                    | 0.3                   | 0.0            | 33.1       | -             | 56.0          | 46.0          | 22.9          | -          |
| 7.  | 28.6342        | 31.8          | -             | 32.3          | -             | 0.7                    | 0.9                   | 0.0            | 33.9       | -             | 60.0          | 50.0          | 26.1          | -          |

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

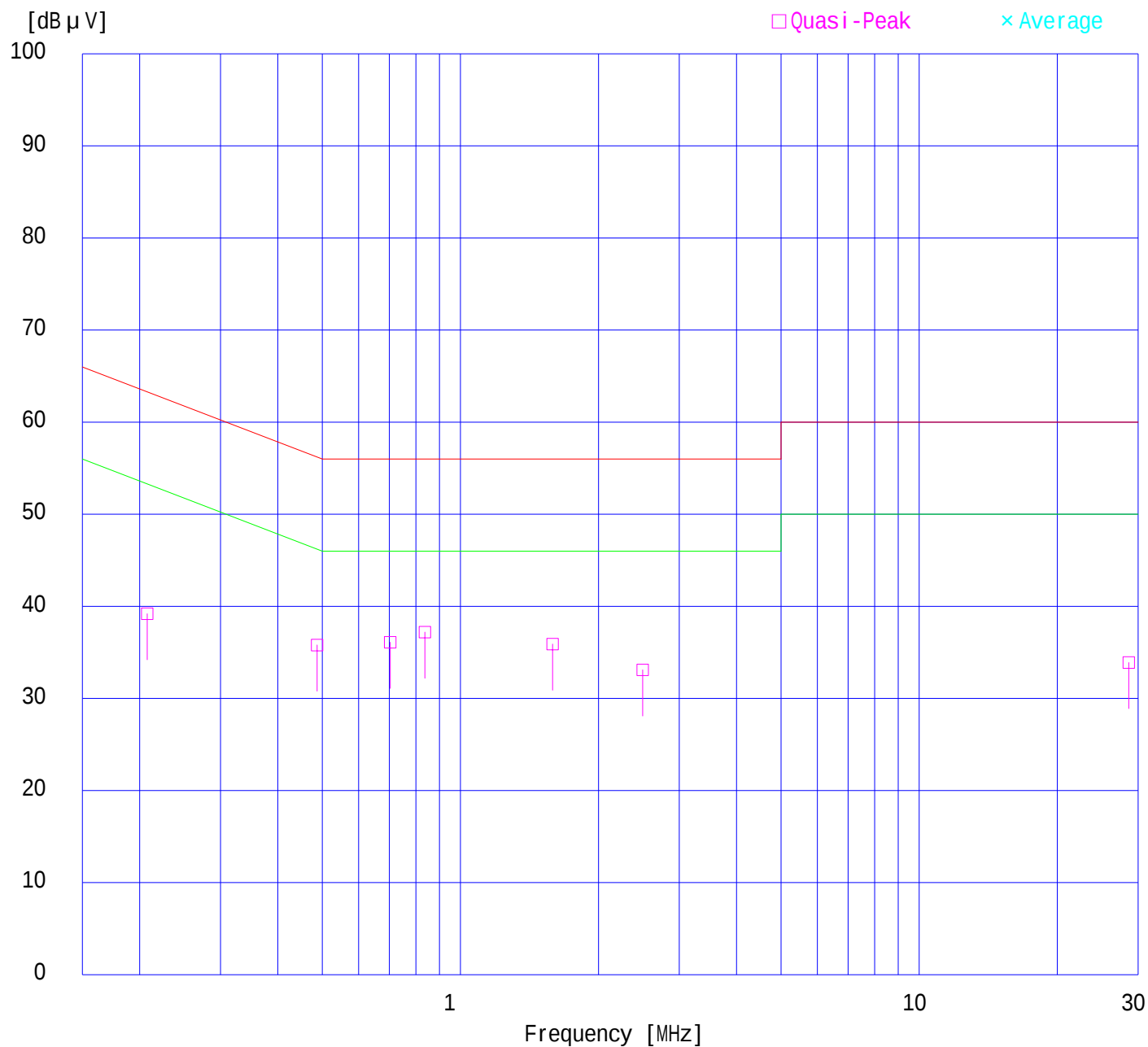
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Model No. : DVR-RT500-S  
Serial No. : -  
Power : AC120V/60Hz  
Mode : AV1 Input+Rec  
Remarks : 5Vp-p  
Date : 7/2/2004  
Phase : Single Phase  
Temperature : 24  
Humidity : 68 %  
Regulation : FCC Part15B CLASS B(2003)

Engineer : Tsubasa Takayama



# DATA OF CONDUCTION TEST CHART

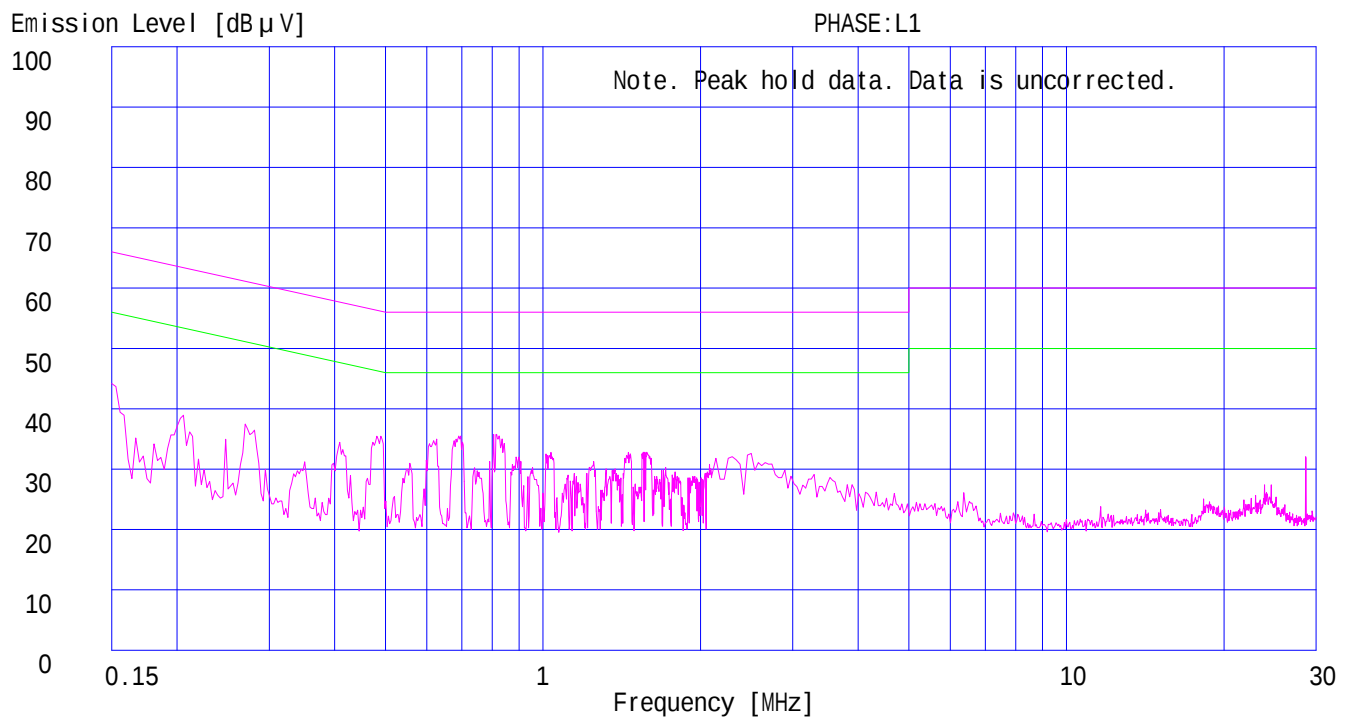
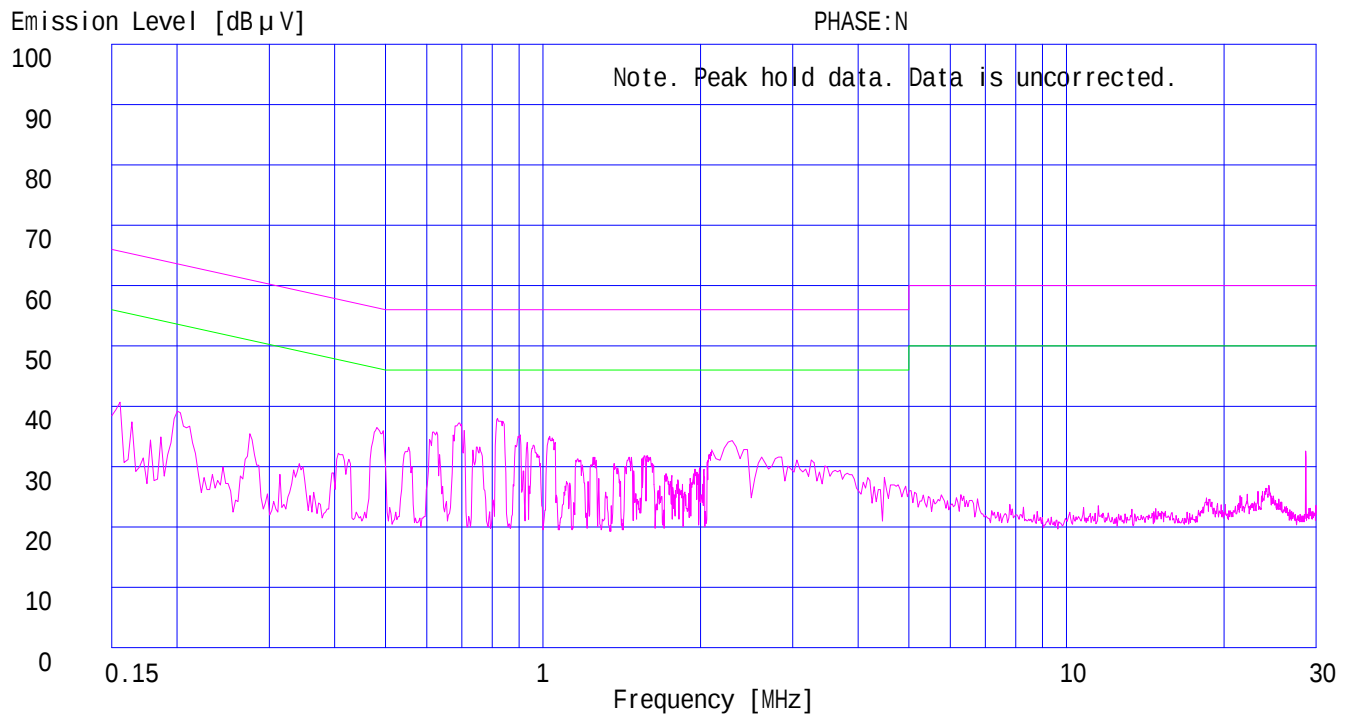
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Mode : AV1 Input+Rec  
Remarks : 5Vp-p  
Date : 7/2/2004  
Phase : Single Phase  
Temperature : 24  
Humidity : 68 %  
Regulation 1 : FCC Part15B CLASS B(2003)  
Regulation 2 : None

Engineer : Tsubasa Takayama



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Model No. : DVR-RT500-S  
Serial No. : -  
Power : AC120V/60Hz  
Mode : AV2 Input+ Rec  
Remarks : 1Vp-p  
Date : 7/2/2004  
Phase : Single Phase  
Temperature : 24  
Humidity : 68 %  
Regulation : FCC Part15B CLASS B(2003)

Engineer : Tsubasa Takayama

| No. | FREQ.<br>[MHz] | READING(N)    |               | READING(L1)   |               | LISN<br>FACTOR<br>[dB] | CABLE<br>LOSS<br>[dB] | ATTEN.<br>[dB] | RESULT     |               | LIMITS        |               | MARGIN        |            |
|-----|----------------|---------------|---------------|---------------|---------------|------------------------|-----------------------|----------------|------------|---------------|---------------|---------------|---------------|------------|
|     |                | QP<br>[dB μV] | AV<br>[dB μV] | QP<br>[dB μV] | AV<br>[dB μV] |                        |                       |                | QP<br>[dB] | AV<br>[dB μV] | QP<br>[dB μV] | AV<br>[dB μV] | QP<br>[dB μV] | AV<br>[dB] |
| 1.  | 0.2064         | 39.0          | -             | 38.7          | -             | 0.1                    | 0.1                   | 0.0            | 39.2       | -             | 63.3          | 53.3          | 24.1          | -          |
| 2.  | 0.4872         | 35.8          | -             | 34.4          | -             | 0.1                    | 0.1                   | 0.0            | 36.0       | -             | 56.2          | 46.2          | 20.2          | -          |
| 3.  | 0.6910         | 36.7          | -             | 35.0          | -             | 0.1                    | 0.2                   | 0.0            | 37.0       | -             | 56.0          | 46.0          | 19.0          | -          |
| 4.  | 0.8245         | 37.4          | -             | 35.1          | -             | 0.1                    | 0.2                   | 0.0            | 37.7       | -             | 56.0          | 46.0          | 18.3          | -          |
| 5.  | 1.0384         | 34.2          | -             | 31.8          | -             | 0.1                    | 0.2                   | 0.0            | 34.5       | -             | 56.0          | 46.0          | 21.5          | -          |
| 6.  | 2.5099         | 33.7          | -             | 31.6          | -             | 0.1                    | 0.3                   | 0.0            | 34.1       | -             | 56.0          | 46.0          | 21.9          | -          |
| 7.  | 28.6352        | 31.3          | -             | 31.1          | -             | 0.7                    | 0.9                   | 0.0            | 32.9       | -             | 60.0          | 50.0          | 27.1          | -          |

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

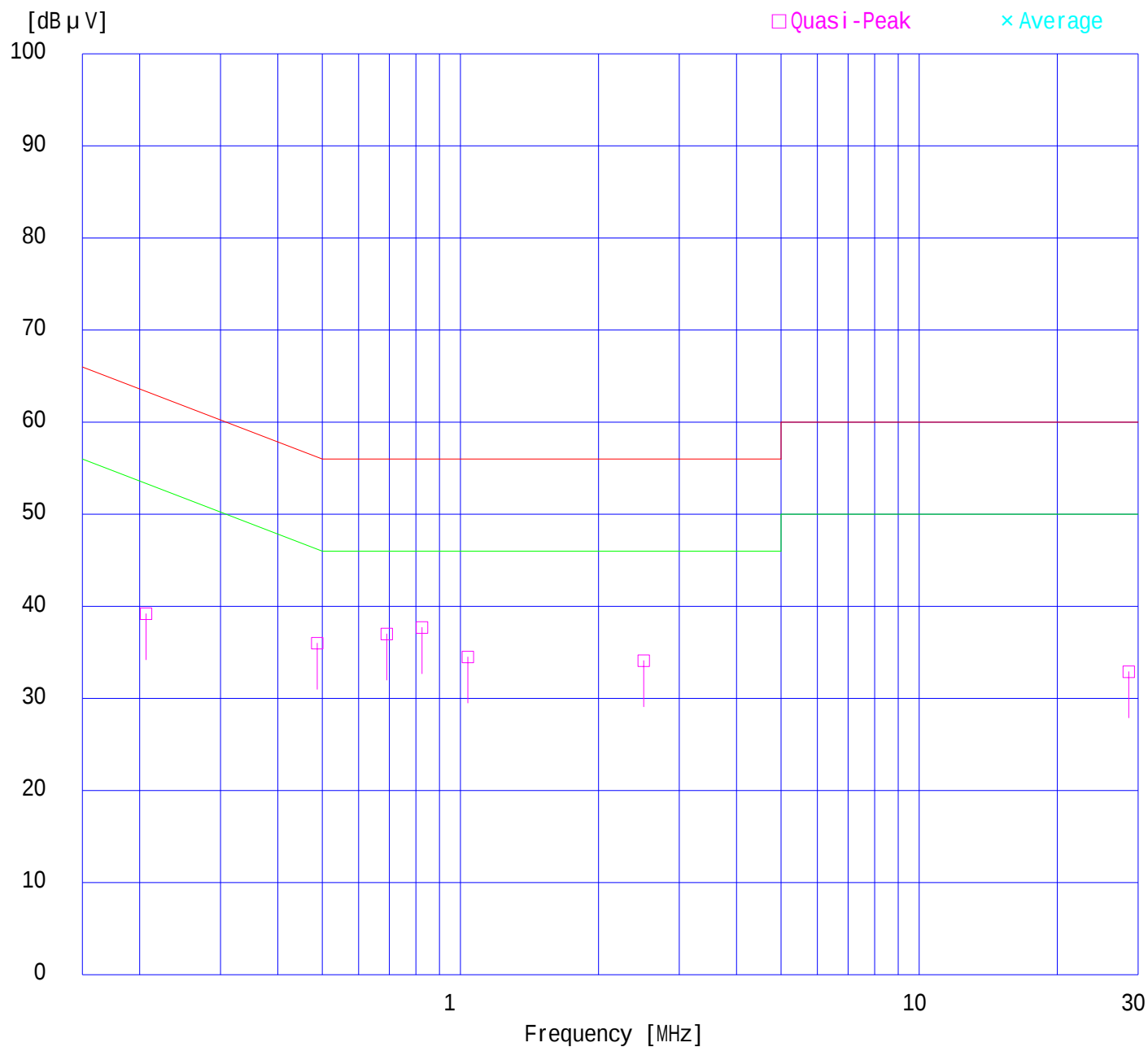
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Kind of Equipment : DVD-RW/VCR  
Model No. : DVR-RT500-S  
Serial No. : -  
Power : AC120V/60Hz  
Mode : AV2 Input+ Rec  
Remarks : 1Vp-p  
Date : 7/2/2004  
Phase : Single Phase  
Temperature : 24  
Humidity : 68 %  
Regulation : FCC Part15B CLASS B(2003)

Engineer : Tsubasa Takayama



# DATA OF CONDUCTION TEST CHART

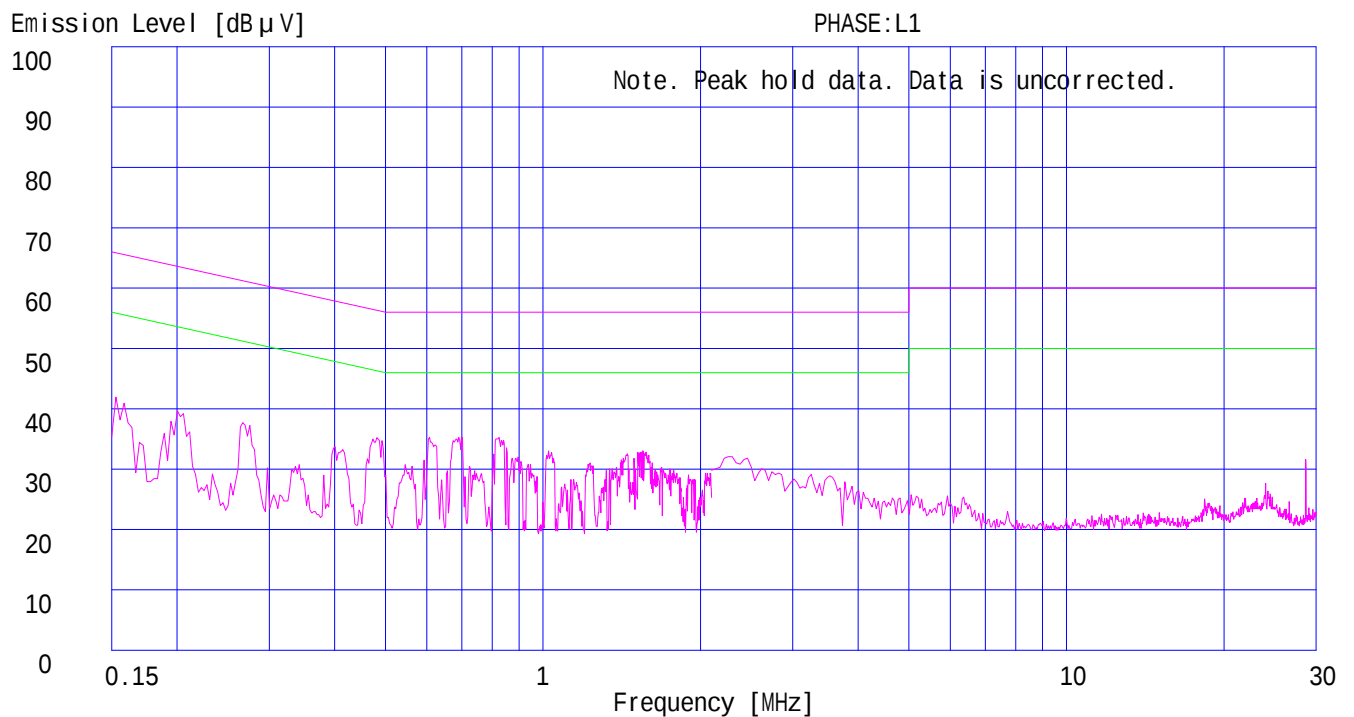
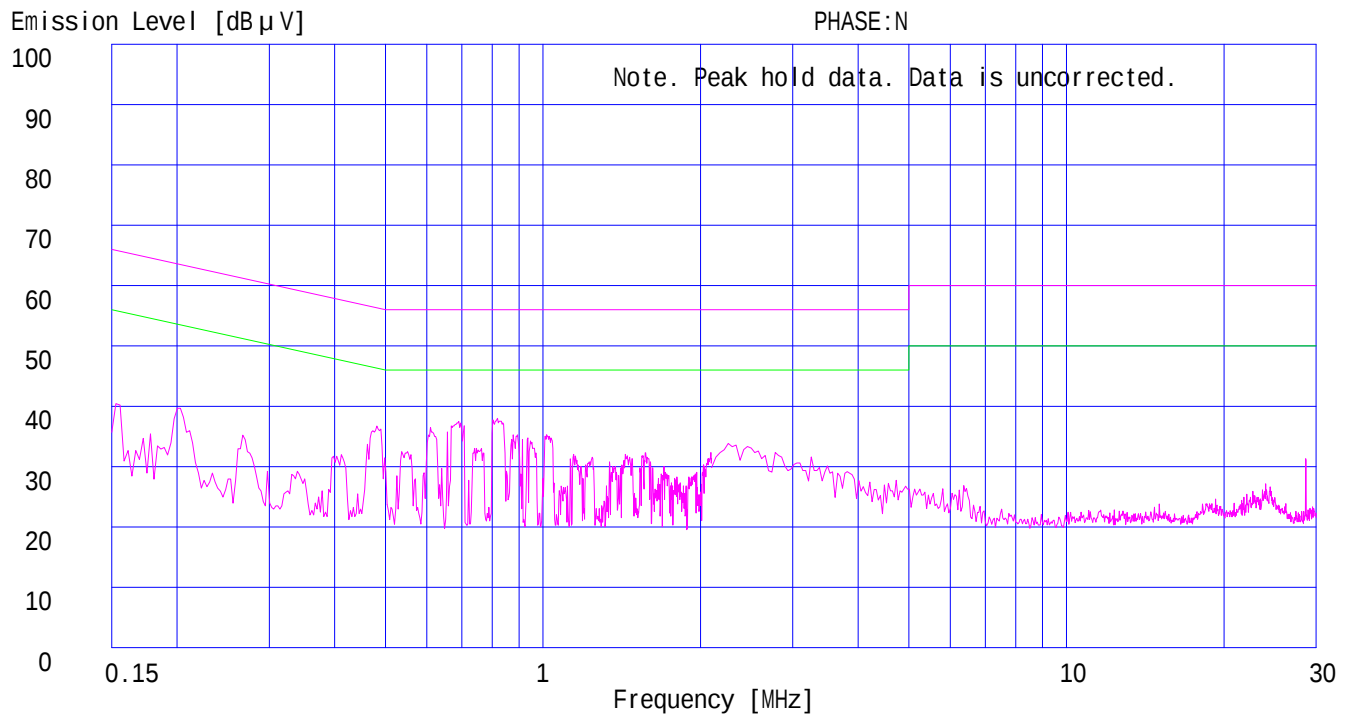
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Mode : AV2 Input+ Rec  
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Temperature : 24  
Humidity : 68 %  
Regulation 1 : FCC Part15B CLASS B(2003)  
Regulation 2 : None

Engineer : Tsubasa Takayama



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Serial No. : -  
Power : AC120V/60Hz  
Mode : AV2 Input+ Rec  
Remarks : 5Vp-p  
Date : 7/2/2004  
Phase : Single Phase  
Temperature : 24  
Humidity : 68 %  
Regulation : FCC Part15B CLASS B(2003)

Engineer : Tsubasa Takayama

| No. | FREQ.<br>[MHz] | READING(N)    |               | READING(L1)   |               | LISN<br>FACTOR<br>[dB] | CABLE<br>LOSS<br>[dB] | ATTEN.<br>[dB] | RESULT     |               | LIMITS        |               | MARGIN        |            |
|-----|----------------|---------------|---------------|---------------|---------------|------------------------|-----------------------|----------------|------------|---------------|---------------|---------------|---------------|------------|
|     |                | QP<br>[dB μV] | AV<br>[dB μV] | QP<br>[dB μV] | AV<br>[dB μV] |                        |                       |                | QP<br>[dB] | AV<br>[dB μV] | QP<br>[dB μV] | AV<br>[dB μV] | QP<br>[dB μV] | AV<br>[dB] |
| 1.  | 0.2069         | 38.8          | -             | 38.3          | -             | 0.1                    | 0.1                   | 0.0            | 39.0       | -             | 63.3          | 53.3          | 24.3          | -          |
| 2.  | 0.4922         | 35.4          | -             | 34.6          | -             | 0.1                    | 0.2                   | 0.0            | 35.7       | -             | 56.1          | 46.1          | 20.4          | -          |
| 3.  | 0.6906         | 36.5          | -             | 34.9          | -             | 0.1                    | 0.2                   | 0.0            | 36.8       | -             | 56.0          | 46.0          | 19.2          | -          |
| 4.  | 0.8240         | 37.4          | -             | 35.0          | -             | 0.1                    | 0.2                   | 0.0            | 37.7       | -             | 56.0          | 46.0          | 18.3          | -          |
| 5.  | 1.0363         | 34.2          | -             | 31.8          | -             | 0.1                    | 0.2                   | 0.0            | 34.5       | -             | 56.0          | 46.0          | 21.5          | -          |
| 6.  | 2.2683         | 32.7          | -             | 31.5          | -             | 0.1                    | 0.3                   | 0.0            | 33.1       | -             | 56.0          | 46.0          | 22.9          | -          |
| 7.  | 28.6353        | 31.6          | -             | 31.5          | -             | 0.7                    | 0.9                   | 0.0            | 33.2       | -             | 60.0          | 50.0          | 26.8          | -          |

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

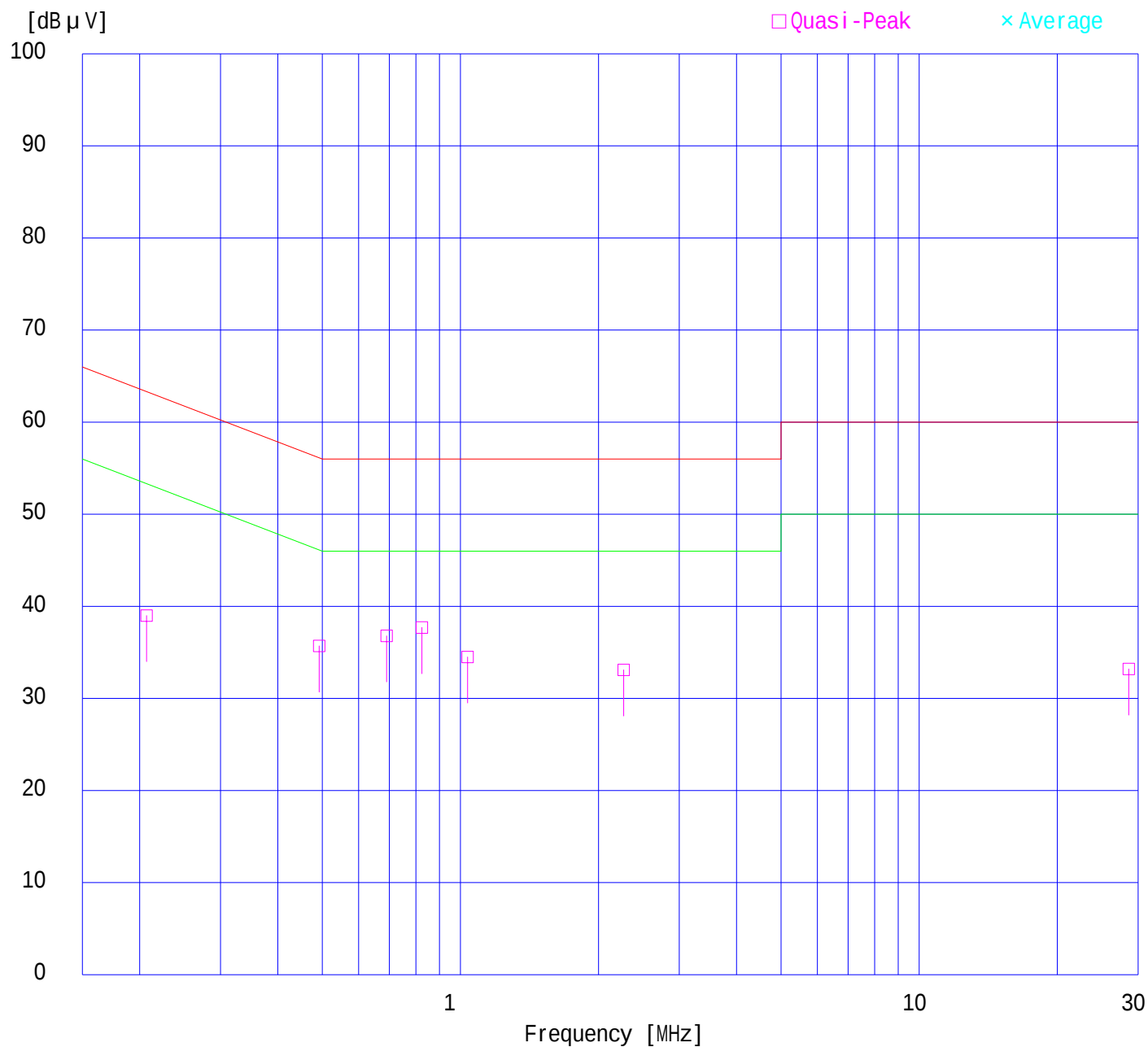
Except for the above table: adequate margin data below the limits.

# DATA OF CONDUCTION TEST

UL Apex Co., Ltd.  
YOKOWA No.1 SHIELD TEST ROOM  
Report No.: 24KE0259-YW-1

Applicant : Orion Electric Co.,Ltd.  
Kind of Equipment : DVD-RW/VCR  
Model No. : DVR-RT500-S  
Serial No. : -  
Power : AC120V/60Hz  
Mode : AV2 Input+ Rec  
Remarks : 5Vp-p  
Date : 7/2/2004  
Phase : Single Phase  
Temperature : 24  
Humidity : 68 %  
Regulation : FCC Part15B CLASS B(2003)

Engineer : Tsubasa Takayama



# DATA OF CONDUCTION TEST CHART

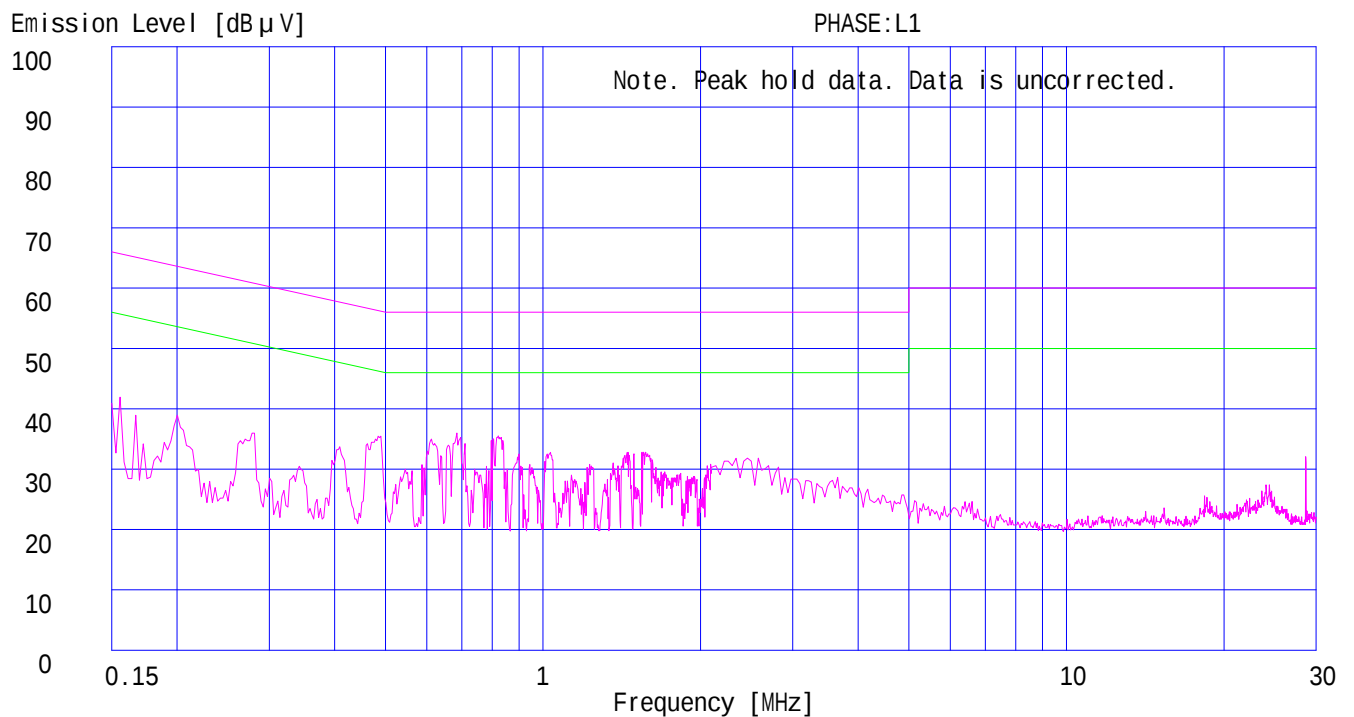
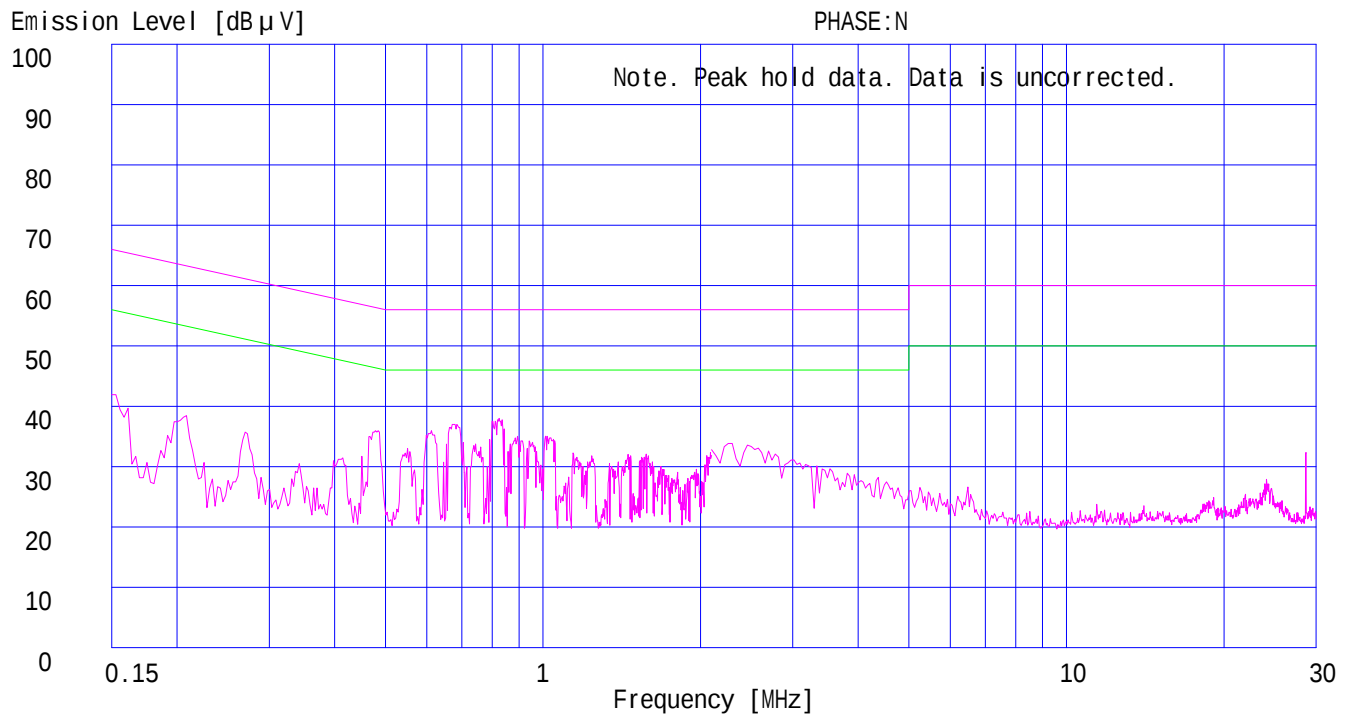
UL Apex Co., Ltd.

YOKOWA No.1 SHIELD TEST ROOM

Report No.: 24KE0259-YW-1

Applicant : Orion Electric Co.,Ltd.  
Kind of Equipment : DVD-RW/VCR  
Model No. : DVR-RT500-S  
Serial No. : -  
Power : AC120V/60Hz  
Mode : AV2 Input+ Rec  
Remarks : 5Vp-p  
Date : 7/2/2004  
Phase : Single Phase  
Temperature : 24  
Humidity : 68 %  
Regulation 1 : FCC Part15B CLASS B(2003)  
Regulation 2 : None

Engineer : Tsubasa Takayama



# DATA OF CONDUCTION TEST

UL Apex Co., Ltd.

YOKOWA No.1 SHIELD TEST ROOM

Report No.: 24KE0259-YW-1

Applicant : Orion Electric Co.,Ltd.  
Kind of Equipment : DVD-RW/VCR  
Model No. : DVR-RT500-S  
Serial No. : -  
Power : AC120V/60Hz  
Mode : VCR Playback+Rec  
Remarks : -  
Date : 7/2/2004  
Phase : Single Phase  
Temperature : 24  
Humidity : 68 %  
Regulation : FCC Part15B CLASS B(2003)

Engineer : Tsubasa Takayama

| No. | FREQ.<br>[MHz] | READING(N)    |               | READING(L1)   |               | LISN<br>FACTOR<br>[dB] | CABLE<br>LOSS<br>[dB] | ATTEN.<br>[dB] | RESULT     |               | LIMITS        |               | MARGIN     |            |
|-----|----------------|---------------|---------------|---------------|---------------|------------------------|-----------------------|----------------|------------|---------------|---------------|---------------|------------|------------|
|     |                | QP<br>[dB μV] | AV<br>[dB μV] | QP<br>[dB μV] | AV<br>[dB μV] |                        |                       |                | QP<br>[dB] | AV<br>[dB μV] | QP<br>[dB μV] | AV<br>[dB μV] | QP<br>[dB] | AV<br>[dB] |
| 1.  | 0.1500         | 41.0          | -             | 44.5          | -             | 0.1                    | 0.1                   | 0.0            | 44.7       | -             | 66.0          | 56.0          | 21.3       | -          |
| 2.  | 0.2901         | 34.0          | -             | 36.3          | -             | 0.1                    | 0.1                   | 0.0            | 36.5       | -             | 60.5          | 50.5          | 24.0       | -          |
| 3.  | 0.5590         | 37.2          | -             | 36.0          | -             | 0.1                    | 0.2                   | 0.0            | 37.5       | -             | 56.0          | 46.0          | 18.5       | -          |
| 4.  | 0.7960         | 37.7          | -             | 35.4          | -             | 0.1                    | 0.2                   | 0.0            | 38.0       | -             | 56.0          | 46.0          | 18.0       | -          |
| 5.  | 1.0384         | 33.0          | -             | 31.5          | -             | 0.1                    | 0.2                   | 0.0            | 33.3       | -             | 56.0          | 46.0          | 22.7       | -          |
| 6.  | 2.3248         | 35.9          | -             | 34.9          | -             | 0.1                    | 0.3                   | 0.0            | 36.3       | -             | 56.0          | 46.0          | 19.7       | -          |
| 7.  | 28.6357        | 31.4          | -             | 31.6          | -             | 0.7                    | 0.9                   | 0.0            | 33.2       | -             | 60.0          | 50.0          | 26.8       | -          |

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

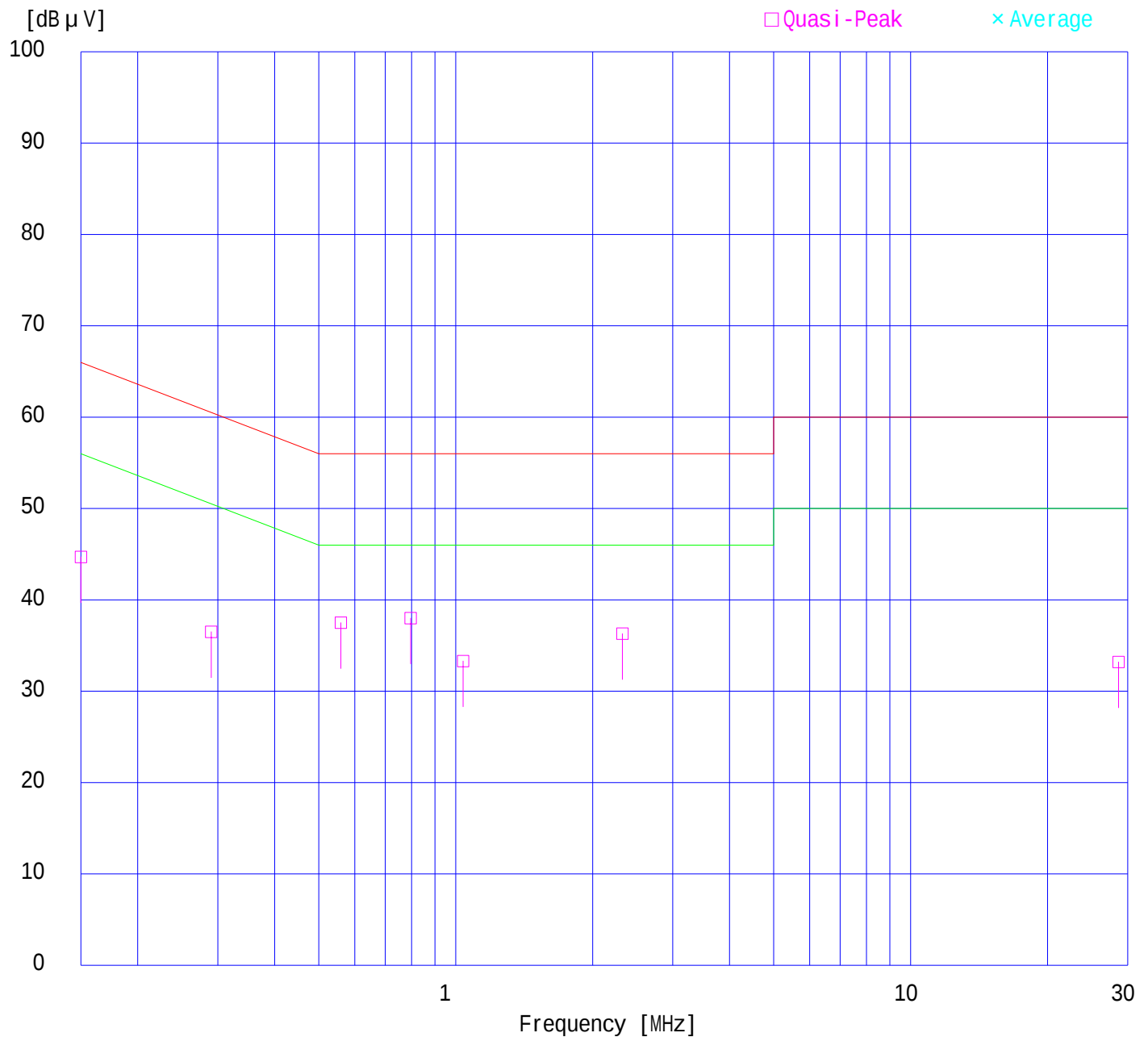
Except for the above table: adequate margin data below the limits.

# DATA OF CONDUCTION TEST

UL Apex Co., Ltd.  
YOKOWA No.1 SHIELD TEST ROOM  
Report No.: 24KE0259-YW-1

Applicant : Orion Electric Co.,Ltd.  
Kind of Equipment : DVD-RW/VCR  
Model No. : DVR-RT500-S  
Serial No. : -  
Power : AC120V/60Hz  
Mode : VCR Playback + Rec.  
Remarks : -  
Date : 7/2/2004  
Phase : Single Phase  
Temperature : 24  
Humidity : 68 %  
Regulation : FCC Part15B CLASS B(2003)

Engineer : Tsubasa Takayama



# DATA OF CONDUCTION TEST CHART

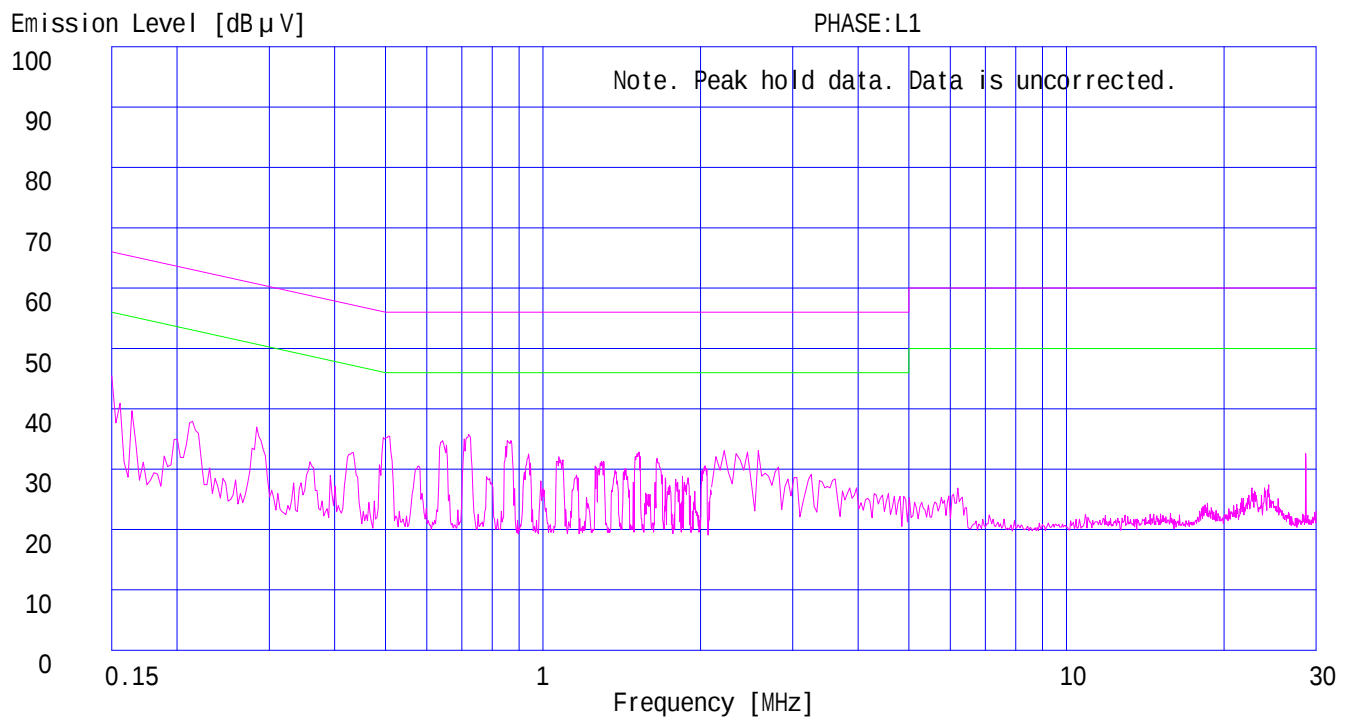
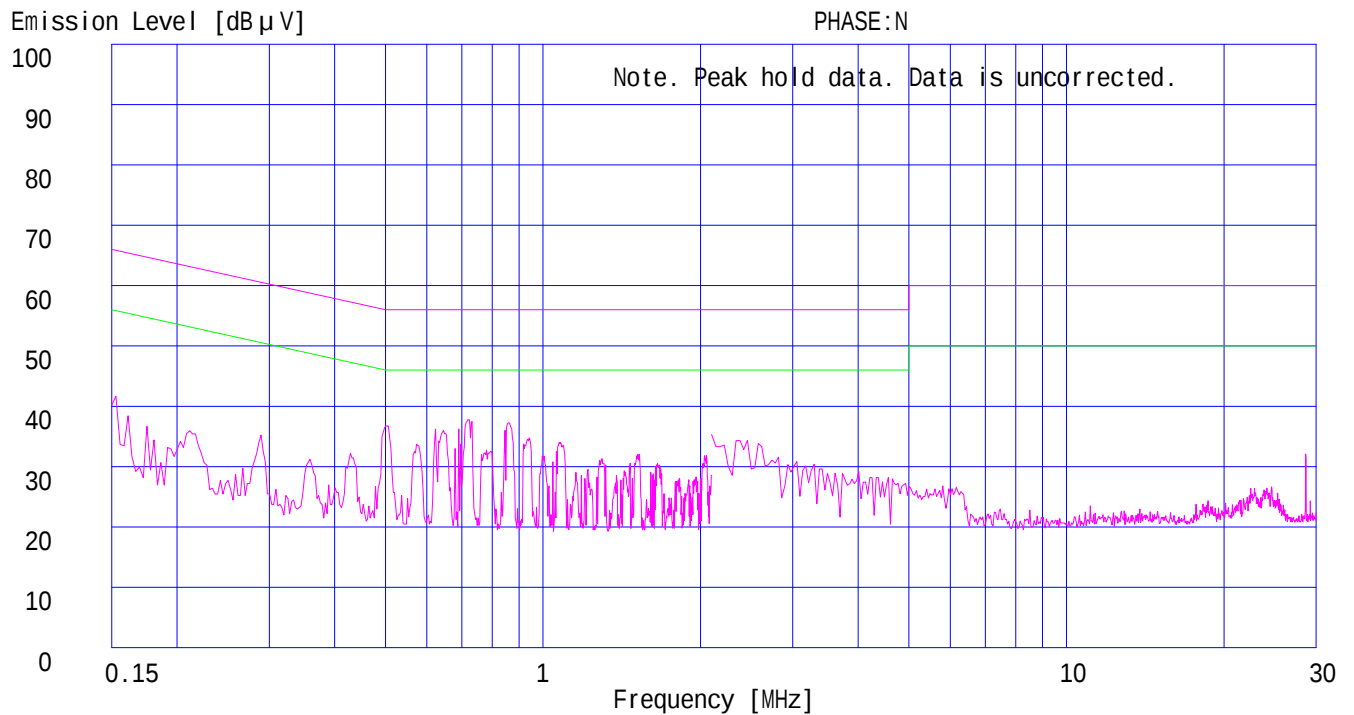
UL Apex Co., Ltd.

YOKOWA No.1 SHIELD TEST ROOM

Report No.: 24KE0259-YW-1

Applicant : Orion Electric Co.,Ltd.  
Kind of Equipment : DVD-RW/VCR  
Model No. : DVR-RT500-S  
Serial No. : -  
Power : AC120V/60Hz  
Mode : VCR Playback+Rec  
Remarks : -  
Date : 7/2/2004  
Phase : Single Phase  
Temperature : 24  
Humidity : 68 %  
Regulation 1 : FCC Part15B CLASS B(2003)  
Regulation 2 : None

Engineer : Tsubasa Takayama



# DATA OF CONDUCTION TEST

UL Apex Co., Ltd.

YOKOWA No.1 SHIELD TEST ROOM

Report No.: 24KE0259-YW-1

Applicant : Orion Electric Co.,Ltd.  
Kind of Equipment : DVD-RW/VCR  
Model No. : DVR-RT500-S  
Serial No. : -  
Power : AC120V/60Hz  
Mode : DVD Play  
Remarks : -  
Date : 7/2/2004  
Phase : Single Phase  
Temperature : 24  
Humidity : 68 %  
Regulation : FCC Part15B CLASS B(2003)

Engineer : Tsubasa Takayama

| No. | FREQ.<br>[MHz] | READING(N)     |    | READING(L1)    |    | LISN<br>FACTOR<br>[dB] | CABLE<br>LOSS<br>[dB] | ATTEN.<br>[dB] | RESULT     |                | LIMITS         |                | MARGIN     |            |
|-----|----------------|----------------|----|----------------|----|------------------------|-----------------------|----------------|------------|----------------|----------------|----------------|------------|------------|
|     |                | QP<br>[dB μ V] | AV | QP<br>[dB μ V] | AV |                        |                       |                | QP<br>[dB] | AV<br>[dB μ V] | QP<br>[dB μ V] | AV<br>[dB μ V] | QP<br>[dB] | AV<br>[dB] |
| 1.  | 0.2079         | 38.5           | -  | 38.6           | -  | 0.1                    | 0.1                   | 0.0            | 38.8       | -              | 63.3           | 53.3           | 24.5       | -          |
| 2.  | 0.4913         | 35.7           | -  | 34.5           | -  | 0.1                    | 0.2                   | 0.0            | 36.0       | -              | 56.1           | 46.1           | 20.1       | -          |
| 3.  | 0.7041         | 36.8           | -  | 34.4           | -  | 0.1                    | 0.2                   | 0.0            | 37.1       | -              | 56.0           | 46.0           | 18.9       | -          |
| 4.  | 0.8334         | 36.9           | -  | 34.6           | -  | 0.1                    | 0.2                   | 0.0            | 37.2       | -              | 56.0           | 46.0           | 18.8       | -          |
| 5.  | 1.6007         | 30.8           | -  | 31.3           | -  | 0.1                    | 0.2                   | 0.0            | 31.6       | -              | 56.0           | 46.0           | 24.4       | -          |
| 6.  | 2.5255         | 33.0           | -  | 31.7           | -  | 0.1                    | 0.3                   | 0.0            | 33.4       | -              | 56.0           | 46.0           | 22.6       | -          |
| 7.  | 28.6346        | 31.4           | -  | 31.4           | -  | 0.7                    | 0.9                   | 0.0            | 33.0       | -              | 60.0           | 50.0           | 27.0       | -          |

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

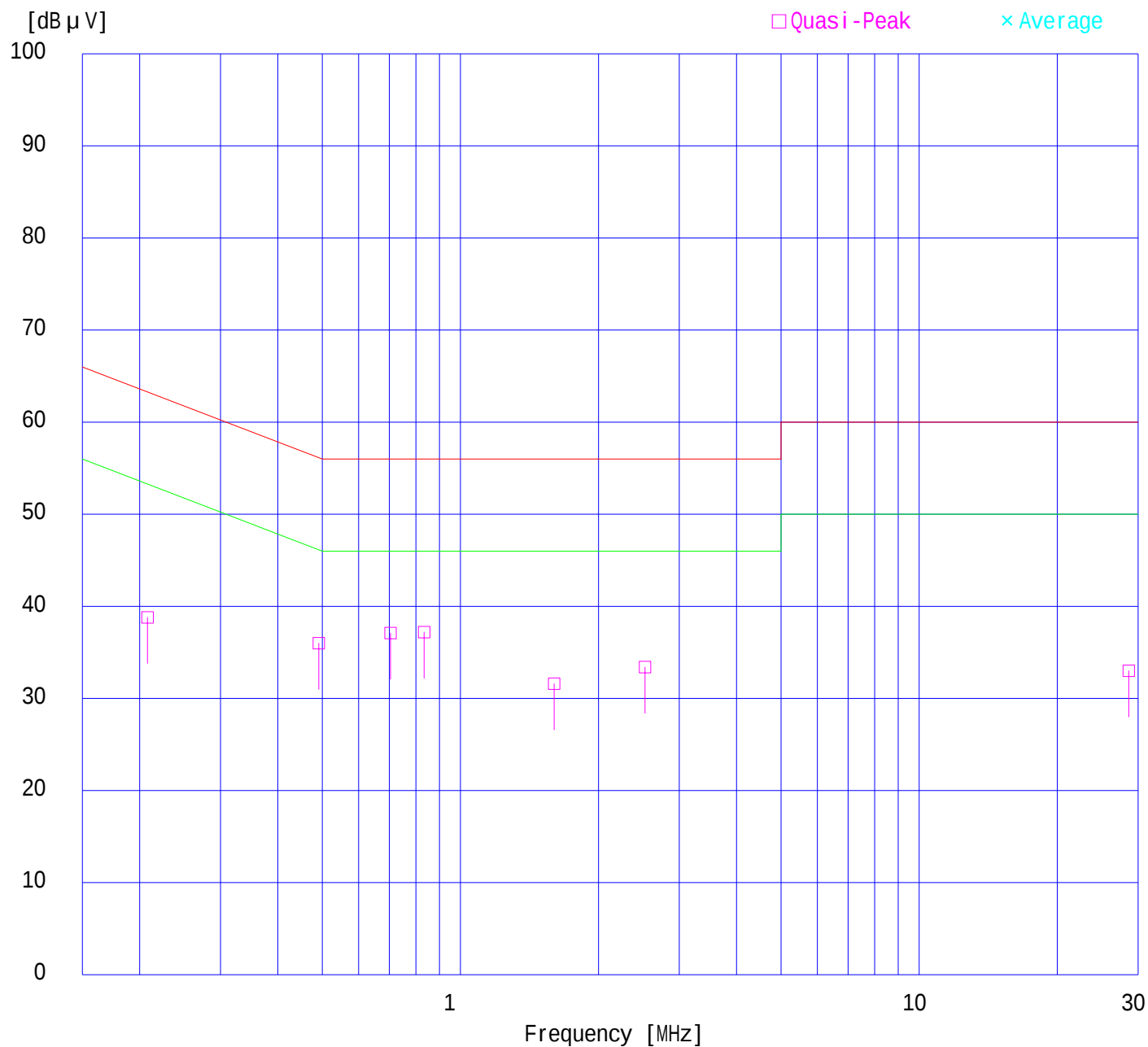
Except for the above table: adequate margin data below the limits.

# DATA OF CONDUCTION TEST

UL Apex Co., Ltd.  
YOKOWA No.1 SHIELD TEST ROOM  
Report No.: 24KE0259-YW-1

Applicant : Orion Electric Co.,Ltd.  
Kind of Equipment : DVD-RW/VCR  
Model No. : DVR-RT500-S  
Serial No. : -  
Power : AC120V/60Hz  
Mode : DVD Play  
Remarks : -  
Date : 7/2/2004  
Phase : Single Phase  
Temperature : 24  
Humidity : 68 %  
Regulation : FCC Part15B CLASS B(2003)

Engineer : Tsubasa Takayama



# DATA OF CONDUCTION TEST CHART

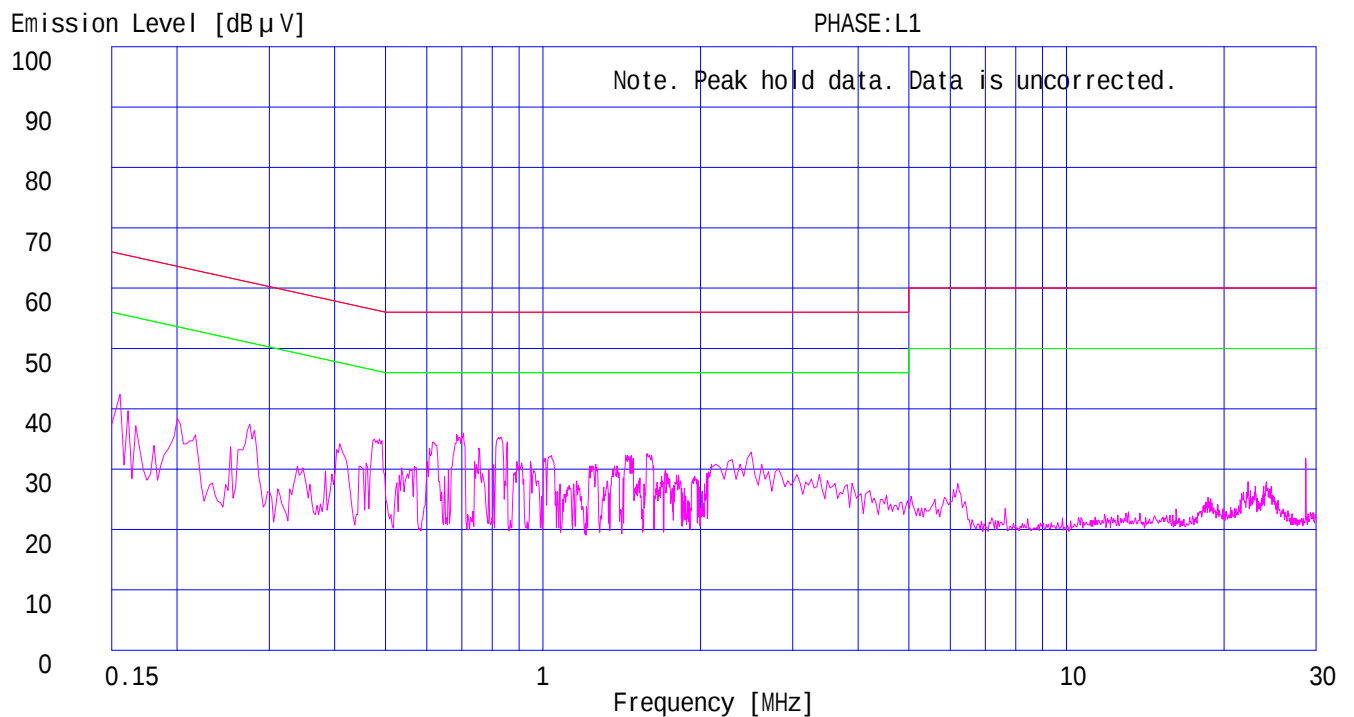
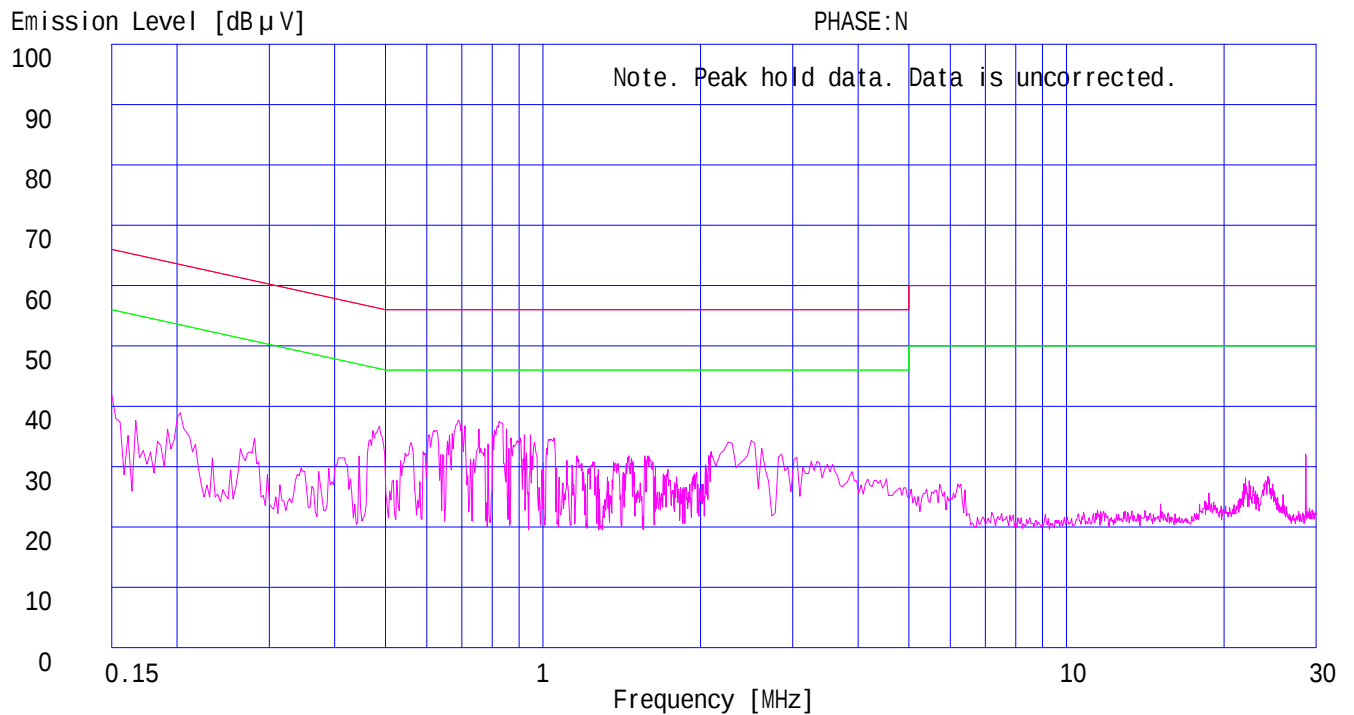
UL Apex Co., Ltd.

YOKOWA No.1 SHIELD TEST ROOM

Report No.: 24KE0259-YW-1

Applicant : Orion Electric Co.,Ltd.  
Kind of Equipment : DVD-RW/VCR  
Model No. : DVR-RT500-S  
Serial No. : -  
Power : AC120V/60Hz  
Mode : DVD Play  
Remarks : -  
Date : 7/2/2004  
Phase : Single Phase  
Temperature : 24  
Humidity : 68 %  
Regulation 1 : FCC Part15B CLASS B(2003)

Engineer : Tsubasa Takayama



# DATA OF RADIATION TEST

UL Apex Co., Ltd.  
Yokowa EMC No.2 Open Test Site

COMPANY : Orion Electric Co., Ltd.  
EQUIPMENT : DVD-RW/VCR  
MODEL No. : DVR-RT500-S  
POWER : AC120V/60Hz  
DESCRIPTION : TV Reception+Rec

REPORT No. : 24KE0259-YW-1  
REGULATION : FCC PART15 B  
TEST DISTANCE : 3m  
ATTENUATION : 101-847MHz 6dB  
1030-1694MHz 0dB  
DATE : June 26, 2004  
TEMP/HUMID. : 27 /42%  
ENGINEER : Tsubasa Takayama

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

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

| CH.  | FREQ  | READING(QP) |      |             |      | ANT  | C.Factor | RESULT(QP) |          |            |      | LIMIT      |          |            | MARGIN(QP) |            |      |  |  |
|------|-------|-------------|------|-------------|------|------|----------|------------|----------|------------|------|------------|----------|------------|------------|------------|------|--|--|
|      | [MHz] | HOR.        | VER. |             |      | TYPE | [dBuV]   | HOR.       | VER.     |            |      | [QP]       |          |            | HOR.       | VER.       |      |  |  |
| VHF  |       |             |      |             |      |      |          |            |          |            |      |            |          |            |            |            |      |  |  |
| 2    | 101   | 26.7        | 26.1 |             |      | BC   | -11.0    | 15.7       | 15.1     |            |      | 43.5       |          |            | 27.8       | 28.4       |      |  |  |
|      | 202   | 22.2        | 22.3 |             |      | BC   | -4.0     | 18.2       | 18.3     |            |      | 43.5       |          |            | 25.3       | 25.2       |      |  |  |
|      | 303   |             |      |             |      | LO   | -5.9     |            |          |            |      | 46.0       |          |            | >15.0      |            |      |  |  |
|      | 404   |             |      |             |      | LO   | -4.2     |            |          |            |      | 46.0       |          |            |            |            |      |  |  |
|      | 505   |             |      |             |      | LO   | -1.1     |            |          |            |      | 46.0       |          |            |            |            |      |  |  |
|      | 606   |             |      |             |      | LO   | 0.9      |            |          |            |      | 46.0       |          |            |            |            |      |  |  |
|      | 707   |             |      |             |      | LO   | 2.7      |            |          |            |      | 46.0       |          |            |            |            |      |  |  |
|      | 808   |             |      |             |      | LO   | 4.2      |            |          |            |      | 46.0       |          |            |            |            |      |  |  |
|      | 909   |             |      |             |      | LO   | 5.8      |            |          |            |      | 46.0       |          |            |            |            |      |  |  |
|      |       | READING(PK) |      | READING(AV) |      | ANT  | C.Factor | RESULT(PK) |          | RESULT(AV) |      | LIMIT      | LIMIT    | MARGIN(PK) |            | MARGIN(AV) |      |  |  |
|      |       | HOR.        | VER. | HOR.        | VER. | TYPE |          | HOR.       | VER.     | HOR.       | VER. | [PK]       | [AV]     | HOR.       | VER.       | HOR.       | VER. |  |  |
|      |       | [dBuV]      |      | [dBuV]      |      |      | [dBuV]   | [dBuV/m]   |          | [dBuV/m]   |      | [dBuV/m]   | [dBuV/m] | [dB]       |            | [dB]       |      |  |  |
|      | 1010  |             |      |             |      | HO   | -12.0    |            |          |            |      | 74.0       | 54.0     | >27.0      |            | >10.0      |      |  |  |
|      | 1111  |             |      |             |      | HO   | -11.4    |            |          |            |      | 74.0       | 54.0     |            |            |            |      |  |  |
|      | 1212  |             |      |             |      | HO   | -10.9    |            |          |            |      | 74.0       | 54.0     |            |            |            |      |  |  |
|      | 1313  |             |      |             |      | HO   | -10.4    |            |          |            |      | 74.0       | 54.0     |            |            |            |      |  |  |
|      | 1414  |             |      |             |      | HO   | -9.8     |            |          |            |      | 74.0       | 54.0     |            |            |            |      |  |  |
|      | 1515  |             |      |             |      | HO   | -9.2     |            |          |            |      | 74.0       | 54.0     |            |            |            |      |  |  |
|      | 1616  |             |      |             |      | HO   | -8.3     |            |          |            |      | 74.0       | 54.0     |            |            |            |      |  |  |
| CH.  | FREQ  | READING(QP) |      |             |      | ANT  | C.Factor | RESULT(QP) |          |            |      | LIMIT      |          |            | MARGIN(QP) |            |      |  |  |
|      | [MHz] | HOR.        | VER. |             |      | TYPE | [dBuV]   | [dBuV/m]   |          |            |      | [dBuV/m]   |          |            | [dB]       |            |      |  |  |
| 3    | 107   | 24.5        | 24.3 |             |      | BC   | -10.0    | 14.5       | 14.3     |            |      | 43.5       |          |            | 29.0       | 29.2       |      |  |  |
|      | 214   | 22.3        | 22.3 |             |      | BC   | -3.8     | 18.5       | 18.5     |            |      | 43.5       |          |            | 25.0       | 25.0       |      |  |  |
|      | 321   |             |      |             |      | LO   | -5.6     |            |          |            |      | 46.0       |          |            | >15.0      |            |      |  |  |
|      | 428   |             |      |             |      | LO   | -3.5     |            |          |            |      | 46.0       |          |            |            |            |      |  |  |
|      | 535   |             |      |             |      | LO   | -0.5     |            |          |            |      | 46.0       |          |            |            |            |      |  |  |
|      | 642   |             |      |             |      | LO   | 1.5      |            |          |            |      | 46.0       |          |            |            |            |      |  |  |
|      | 749   |             |      |             |      | LO   | 3.3      |            |          |            |      | 46.0       |          |            |            |            |      |  |  |
|      | 856   |             |      |             |      | LO   | 4.7      |            |          |            |      | 46.0       |          |            |            |            |      |  |  |
|      | 963   |             |      |             |      | LO   | 7.8      |            |          |            |      | 54.0       |          |            |            |            |      |  |  |
|      |       | READING(PK) |      | READING(AV) |      | ANT  | C.Factor | RESULT(PK) |          | RESULT(AV) |      | LIMIT      | LIMIT    | MARGIN(PK) |            | MARGIN(AV) |      |  |  |
|      |       | HOR.        | VER. | HOR.        | VER. | TYPE |          | HOR.       | VER.     | HOR.       | VER. | [PK]       | [AV]     | HOR.       | VER.       | HOR.       | VER. |  |  |
|      |       | [dBuV]      |      | [dBuV]      |      |      | [dBuV]   | [dBuV/m]   |          | [dBuV/m]   |      | [dBuV/m]   | [dBuV/m] | [dB]       |            | [dB]       |      |  |  |
|      | 1070  |             |      |             |      | HO   | -11.7    |            |          |            |      | 74.0       | 54.0     | >27.0      |            | >10.0      |      |  |  |
|      | 1177  |             |      |             |      | HO   | -11.1    |            |          |            |      | 74.0       | 54.0     |            |            |            |      |  |  |
|      | 1284  |             |      |             |      | HO   | -10.5    |            |          |            |      | 74.0       | 54.0     |            |            |            |      |  |  |
|      | 1391  |             |      |             |      | HO   | -9.9     |            |          |            |      | 74.0       | 54.0     |            |            |            |      |  |  |
|      | 1498  |             |      |             |      | HO   | -9.4     |            |          |            |      | 74.0       | 54.0     |            |            |            |      |  |  |
|      | 1605  |             |      |             |      | HO   | -8.4     |            |          |            |      | 74.0       | 54.0     |            |            |            |      |  |  |
|      | CH.   | FREQ        |      | READING(QP) |      |      |          | ANT        |          | C.Factor   |      | RESULT(QP) |          |            |            | LIMIT      |      |  |  |
|      |       | [MHz]       | HOR. | VER.        |      |      | TYPE     | [dBuV]     | [dBuV/m] |            |      |            | [dBuV/m] |            |            | [dB]       |      |  |  |
|      | 4     | 113         | 24.2 | 24.5        |      |      | BC       | -8.8       | 15.4     | 15.7       |      |            | 43.5     |            |            | 28.1       | 27.8 |  |  |
| 226  |       |             |      |             |      | BC   | -3.7     |            |          |            |      | 46.0       |          |            | >15.0      |            |      |  |  |
| 339  |       |             |      |             |      | LO   | -5.4     |            |          |            |      | 46.0       |          |            |            |            |      |  |  |
| 452  |       |             |      |             |      | LO   | -2.7     |            |          |            |      | 46.0       |          |            |            |            |      |  |  |
| 565  |       |             |      |             |      | LO   | 0.0      |            |          |            |      | 46.0       |          |            |            |            |      |  |  |
| 678  |       |             |      |             |      | LO   | 2.2      |            |          |            |      | 46.0       |          |            |            |            |      |  |  |
| 791  |       |             |      |             |      | LO   | 4.0      |            |          |            |      | 46.0       |          |            |            |            |      |  |  |
| 904  |       |             |      |             |      | LO   | 5.6      |            |          |            |      | 46.0       |          |            |            |            |      |  |  |
|      |       | READING(PK) |      | READING(AV) |      | ANT  | C.Factor | RESULT(PK) |          | RESULT(AV) |      | LIMIT      | LIMIT    | MARGIN(PK) |            | MARGIN(AV) |      |  |  |
|      |       | HOR.        | VER. | HOR.        | VER. | TYPE |          | HOR.       | VER.     | HOR.       | VER. | [PK]       | [AV]     | HOR.       | VER.       | HOR.       | VER. |  |  |
|      |       | [dBuV]      |      | [dBuV]      |      |      | [dBuV]   | [dBuV/m]   |          | [dBuV/m]   |      | [dBuV/m]   | [dBuV/m] | [dB]       |            | [dB]       |      |  |  |
| 1017 |       |             |      |             |      | HO   | -11.9    |            |          |            |      | 74.0       | 54.0     | >27.0      |            | >10.0      |      |  |  |
| 1130 |       |             |      |             |      | HO   | -11.3    |            |          |            |      | 74.0       | 54.0     |            |            |            |      |  |  |
| 1243 |       |             |      |             |      | HO   | -10.7    |            |          |            |      | 74.0       | 54.0     |            |            |            |      |  |  |
| 1356 |       |             |      |             |      | HO   | -10.1    |            |          |            |      | 74.0       | 54.0     |            |            |            |      |  |  |
| 1469 |       |             |      |             |      | HO   | -9.5     |            |          |            |      | 74.0       | 54.0     |            |            |            |      |  |  |
| 1582 |       |             |      |             |      | HO   | -8.6     |            |          |            |      | 74.0       | 54.0     |            |            |            |      |  |  |
|      |       | READING(PK) |      | READING(AV) |      | ANT  | C.Factor | RESULT(PK) |          | RESULT(AV) |      | LIMIT      | LIMIT    | MARGIN(PK) |            | MARGIN(AV) |      |  |  |
|      |       | HOR.        | VER. | HOR.        | VER. | TYPE |          | HOR.       | VER.     | HOR.       | VER. | [PK]       | [AV]     | HOR.       | VER.       | HOR.       | VER. |  |  |
|      |       | [dBuV]      |      | [dBuV]      |      |      | [dBuV]   | [dBuV/m]   |          | [dBuV/m]   |      | [dBuV/m]   | [dBuV/m] | [dB]       |            | [dB]       |      |  |  |

# DATA OF RADIATION TEST

UL Apex Co., Ltd.  
Yokowa EMC No.2 Open Test Site

COMPANY : Orion Electric Co., Ltd.  
EQUIPMENT : DVD-RW/VCR  
MODEL No. : DVR-RT500-S  
POWER : AC120V/60Hz  
DESCRIPTION : TV Reception+Rec

REPORT No. : 24KE0259-YW-1  
REGULATION : FCC PART15 B  
TEST DISTANCE : 3m  
ATTENUATION : 101-847MHz 6dB  
1030-1694MHz 0dB  
DATE : June 26, 2004  
TEMP./HUMID. : 27 /42%  
ENGINEER : Tsubasa Takayama

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

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

| CH.  | FREQ  | READINNG(QP) |              |              |          | ANT        | C.Factor   | RESULT(QP) |          |            |            | LIMIT    | MARGIN(QP) |            |            |            |  |
|------|-------|--------------|--------------|--------------|----------|------------|------------|------------|----------|------------|------------|----------|------------|------------|------------|------------|--|
|      | [MHz] | HOR.         | VER.         |              |          | TYPE       | [dBuV]     | HOR.       | VER.     |            |            | [QP]     | HOR.       | VER.       |            |            |  |
|      |       | [dBuV]       |              |              |          |            |            | [dBuV/m]   |          |            |            | [dBuV/m] | [dB]       | [dB]       |            |            |  |
| VHF  |       |              |              |              |          |            |            |            |          |            |            |          |            |            |            |            |  |
| 5    | 123   | 25.1         | 24.5         |              |          | BC         | -7.5       | 17.6       | 17.0     |            |            | 43.5     |            | 25.9       | 26.5       |            |  |
|      | 246   |              |              |              |          | BC         | -3.5       |            |          |            |            | 46.0     | > 15.0     |            |            |            |  |
|      | 369   |              |              |              |          | LO         | -4.7       |            |          |            |            | 46.0     |            |            |            |            |  |
|      | 492   |              |              |              |          | LO         | -1.5       |            |          |            |            | 46.0     |            |            |            |            |  |
|      | 615   |              |              |              |          | LO         | 0.9        |            |          |            |            | 46.0     |            |            |            |            |  |
|      | 738   |              |              |              |          | LO         | 3.2        |            |          |            |            | 46.0     |            |            |            |            |  |
|      | 861   |              |              |              |          | LO         | 5.0        |            |          |            |            | 46.0     |            |            |            |            |  |
|      | 984   | LO           | 8.5          | 54.0         |          |            |            |            |          |            |            |          |            |            |            |            |  |
|      |       | READINNG(PK) | READINNG(AV) | ANT          | C.Factor | RESULT(PK) | RESULT(AV) | LIMIT      | LIMIT    | MARGIN(PK) | MARGIN(AV) |          |            |            |            |            |  |
|      |       | HOR. VER.    | HOR. VER.    | TYPE         | [dBuV]   | HOR. VER.  | HOR. VER.  | [PK]       | [AV]     | HOR. VER.  | HOR. VER.  |          |            |            |            |            |  |
|      |       | [dBuV]       | [dBuV]       |              |          | [dBuV/m]   | [dBuV/m]   | [dBuV/m]   | [dBuV/m] | [dB]       | [dB]       |          |            |            |            |            |  |
|      |       | 1107         |              |              | HO       | -11.4      |            |            | 74.0     | 54.0       | >27.0      | >10.0    |            |            |            |            |  |
|      | 1230  | HO           |              |              | -10.8    | 74.0       |            |            | 54.0     |            |            |          |            |            |            |            |  |
|      | 1353  | HO           |              |              | -10.2    | 74.0       |            |            | 54.0     |            |            |          |            |            |            |            |  |
| 1476 | HO    | -9.5         |              |              | 74.0     | 54.0       |            |            |          |            |            |          |            |            |            |            |  |
| 1599 | HO    | -8.4         |              |              | 74.0     | 54.0       |            |            |          |            |            |          |            |            |            |            |  |
| CH.  | FREQ  | READINNG(QP) |              |              |          | ANT        | C.Factor   | RESULT(QP) |          |            |            | LIMIT    | MARGIN(QP) |            |            |            |  |
|      | [MHz] | HOR.         | VER.         |              |          | TYPE       | [dBuV]     | HOR.       | VER.     |            |            | [QP]     | HOR.       | VER.       |            |            |  |
|      |       | [dBuV]       |              |              |          |            |            | [dBuV/m]   |          |            |            | [dBuV/m] | [dB]       | [dB]       |            |            |  |
| 6    | 129   | 25.6         | 25.1         |              |          | BC         | -7.0       | 18.6       | 18.1     |            |            | 43.5     |            | 24.9       | 25.4       |            |  |
|      | 258   |              |              |              |          | BC         | -3.1       |            |          |            |            | 46.0     | > 15.0     |            |            |            |  |
|      | 387   |              |              |              |          | LO         | -4.4       |            |          |            |            | 46.0     |            |            |            |            |  |
|      | 516   |              |              |              |          | LO         | -1.0       |            |          |            |            | 46.0     |            |            |            |            |  |
|      | 645   |              |              |              |          | LO         | 1.5        |            |          |            |            | 46.0     |            |            |            |            |  |
|      | 774   |              |              |              |          | LO         | 3.7        |            |          |            |            | 46.0     |            |            |            |            |  |
|      | 903   |              |              |              |          | LO         | 5.6        |            |          |            |            | 46.0     |            |            |            |            |  |
|      |       | READINNG(PK) | READINNG(AV) | ANT          | C.Factor | RESULT(PK) | RESULT(AV) | LIMIT      | LIMIT    | MARGIN(PK) | MARGIN(AV) |          |            |            |            |            |  |
|      |       | HOR. VER.    | HOR. VER.    | TYPE         | [dBuV]   | HOR. VER.  | HOR. VER.  | [PK]       | [AV]     | HOR. VER.  | HOR. VER.  |          |            |            |            |            |  |
|      |       | [dBuV]       | [dBuV]       |              |          | [dBuV/m]   | [dBuV/m]   | [dBuV/m]   | [dBuV/m] | [dB]       | [dB]       |          |            |            |            |            |  |
|      |       | 1032         |              |              | HO       | -11.9      |            |            | 74.0     | 54.0       | >27.0      | >10.0    |            |            |            |            |  |
|      | 1161  | HO           |              |              | -11.2    | 74.0       |            |            | 54.0     |            |            |          |            |            |            |            |  |
|      | 1290  | HO           |              |              | -10.5    | 74.0       |            |            | 54.0     |            |            |          |            |            |            |            |  |
|      | 1419  | HO           |              |              | -9.8     | 74.0       |            |            | 54.0     |            |            |          |            |            |            |            |  |
| 1548 | HO    | -8.9         |              |              | 74.0     | 54.0       |            |            |          |            |            |          |            |            |            |            |  |
| 1677 | HO    | -7.7         | 74.0         | 54.0         |          |            |            |            |          |            |            |          |            |            |            |            |  |
| CH.  | FREQ  | READINNG(QP) |              |              |          | ANT        | C.Factor   | RESULT(QP) |          |            |            | LIMIT    | MARGIN(QP) |            |            |            |  |
|      | [MHz] | HOR.         | VER.         |              |          | TYPE       | [dBuV]     | HOR.       | VER.     |            |            | [QP]     | HOR.       | VER.       |            |            |  |
|      |       | [dBuV]       |              |              |          |            |            | [dBuV/m]   |          |            |            | [dBuV/m] | [dB]       | [dB]       |            |            |  |
| 7    | 221   | 23.4         | 23.2         |              |          | BC         | -3.8       | 19.6       | 19.4     |            |            | 46.0     |            | 26.4       | 26.6       |            |  |
|      | 442   |              |              |              |          | LO         | -3.1       |            |          |            |            | 46.0     | > 15.0     |            |            |            |  |
|      | 663   |              |              |              |          | LO         | 1.9        |            |          |            |            | 46.0     |            |            |            |            |  |
|      | 884   |              |              |              |          | LO         | 5.5        |            |          |            |            | 46.0     |            |            |            |            |  |
|      |       | READINNG(PK) |              | READINNG(AV) |          | ANT        | C.Factor   | RESULT(PK) |          | RESULT(AV) |            | LIMIT    | LIMIT      | MARGIN(PK) |            | MARGIN(AV) |  |
|      |       | HOR. VER.    | HOR. VER.    | TYPE         | [dBuV]   | HOR. VER.  | HOR. VER.  | [PK]       | [AV]     | HOR. VER.  | HOR. VER.  |          |            |            |            |            |  |
|      |       | [dBuV]       | [dBuV]       |              |          | [dBuV/m]   | [dBuV/m]   | [dBuV/m]   | [dBuV/m] | [dB]       | [dB]       |          |            |            |            |            |  |
|      |       | 1105         |              |              | HO       | -11.5      |            |            | 74.0     | 54.0       | >27.0      | >10.0    |            |            |            |            |  |
| 1326 | HO    | -10.3        |              |              | 74.0     | 54.0       |            |            |          |            |            |          |            |            |            |            |  |
| 1547 | HO    | -8.9         |              |              | 74.0     | 54.0       |            |            |          |            |            |          |            |            |            |            |  |
| CH.  | FREQ  | READINNG(QP) |              |              |          |            | ANT        |            | C.Factor | RESULT(QP) |            |          |            | LIMIT      | MARGIN(QP) |            |  |
|      | [MHz] | HOR.         | VER.         |              |          | TYPE       | [dBuV]     | HOR.       | VER.     |            |            | [QP]     | HOR.       | VER.       |            |            |  |
|      |       | [dBuV]       |              |              |          |            |            | [dBuV/m]   |          |            |            | [dBuV/m] | [dB]       | [dB]       |            |            |  |
| 8    | 227   | 24.6         | 25.8         |              |          | BC         | -3.7       | 20.9       | 22.1     |            |            | 46.0     |            | 25.1       | 23.9       |            |  |
|      | 454   |              |              |              |          | LO         | -2.6       |            |          |            |            | 46.0     | >15.0      |            |            |            |  |
|      | 681   |              |              |              |          | LO         | 2.2        |            |          |            |            | 46.0     |            |            |            |            |  |
|      | 908   |              |              |              |          | LO         | 5.8        |            |          |            |            | 46.0     |            |            |            |            |  |
|      |       | READINNG(PK) |              | READINNG(AV) |          | ANT        | C.Factor   | RESULT(PK) |          | RESULT(AV) |            | LIMIT    | LIMIT      | MARGIN(PK) |            | MARGIN(AV) |  |
|      |       | HOR. VER.    | HOR. VER.    | TYPE         | [dBuV]   | HOR. VER.  | HOR. VER.  | [PK]       | [AV]     | HOR. VER.  | HOR. VER.  |          |            |            |            |            |  |
|      |       | [dBuV]       | [dBuV]       |              |          | [dBuV/m]   | [dBuV/m]   | [dBuV/m]   | [dBuV/m] | [dB]       | [dB]       |          |            |            |            |            |  |
|      |       | 1135         |              |              | HO       | -11.3      |            |            | 74.0     | 54.0       | >27.0      | >10.0    |            |            |            |            |  |
| 1362 | HO    | -10.1        |              |              | 74.0     | 54.0       |            |            |          |            |            |          |            |            |            |            |  |
| 1589 | HO    | -8.5         |              |              | 74.0     | 54.0       |            |            |          |            |            |          |            |            |            |            |  |

# DATA OF RADIATION TEST

UL Apex Co., Ltd.  
Yokowa EMC No.2 Open Test Site

COMPANY : Orion Electric Co., Ltd.  
EQUIPMENT : DVD-RW/VCR  
MODEL No. : DVR-RT500-S  
POWER : AC120V/60Hz  
DESCRIPTION : TV Reception+Rec

REPORT No. : 24KE0259-YW-1  
REGULATION : FCC PART15 B  
TEST DISTANCE : 3m  
ATTENUATION : 101-847MHz 6dB  
1030-1694MHz 0dB  
DATE : June 26, 2004  
TEMP./HUMID. : 27 /42%  
ENGINEER : Tsubasa Takayama

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

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

| CH.  | FREQ  | READINNG(QP) |              |      |          | ANT        | C.Factor   | RESULT(QP) |          |            |            | LIMIT    | MARGIN(QP) |        |      |  |
|------|-------|--------------|--------------|------|----------|------------|------------|------------|----------|------------|------------|----------|------------|--------|------|--|
|      | [MHz] | HOR.         | VER.         |      |          | TYPE       | [dBuV]     | HOR.       | VER.     |            |            | [QP]     | HOR.       | VER.   |      |  |
|      |       | [dBuV]       |              |      |          |            |            | [dBuV/m]   |          |            |            | [dBuV/m] | [dB]       | [dB]   |      |  |
| VHF  |       |              |              |      |          |            |            |            |          |            |            |          |            |        |      |  |
| 9    | 233   | 24.5         | 24.8         |      |          | BC         | -3.6       | 20.9       | 21.2     |            |            | 46.0     |            | 25.1   | 24.8 |  |
|      | 466   |              |              |      |          | LO         | -2.3       |            |          |            |            | 46.0     |            | > 15.0 |      |  |
|      | 699   |              |              |      |          | LO         | 2.6        |            |          |            |            | 46.0     |            |        |      |  |
|      | 932   |              |              |      |          | LO         | 6.7        |            |          |            |            | 46.0     |            |        |      |  |
|      |       | READINNG(PK) | READINNG(AV) | ANT  | C.Factor | RESULT(PK) | RESULT(AV) | LIMIT      | LIMIT    | MARGIN(PK) | MARGIN(AV) |          |            |        |      |  |
|      |       | HOR. VER.    | HOR. VER.    | TYPE | [dBuV]   | HOR. VER.  | HOR. VER.  | [PK]       | [AV]     | HOR. VER.  | HOR. VER.  |          |            |        |      |  |
|      |       | [dBuV]       | [dBuV]       |      |          | [dBuV/m]   | [dBuV/m]   | [dBuV/m]   | [dBuV/m] | [dB]       | [dB]       | [dB]     | [dB]       |        |      |  |
|      | 1165  |              |              |      | HO       | -11.2      |            |            |          | 74.0       | 54.0       | >27.0    |            | >10.0  |      |  |
|      | 1398  |              |              |      | HO       | -9.9       |            |            |          | 74.0       | 54.0       |          |            |        |      |  |
|      | 1631  |              |              |      | HO       | -8.1       |            |            |          | 74.0       | 54.0       |          |            |        |      |  |
| CH.  | FREQ  | READINNG(QP) |              |      |          | ANT        | C.Factor   | RESULT(QP) |          |            |            | LIMIT    | MARGIN(QP) |        |      |  |
|      | [MHz] | HOR.         | VER.         |      |          | TYPE       | [dBuV]     | HOR.       | VER.     |            |            | [QP]     | HOR.       | VER.   |      |  |
|      |       | [dBuV]       |              |      |          |            |            | [dBuV/m]   |          |            |            | [dBuV/m] | [dB]       | [dB]   |      |  |
| 10   | 239   | 22.6         | 23.3         |      |          | BC         | -3.5       | 19.1       | 19.8     |            |            | 46.0     |            | 26.9   | 26.2 |  |
|      | 478   |              |              |      |          | LO         | -2.0       |            |          |            |            | 46.0     |            | > 15.0 |      |  |
|      | 717   |              |              |      |          | LO         | 2.8        |            |          |            |            | 46.0     |            |        |      |  |
|      | 956   |              |              |      |          | LO         | 7.5        |            |          |            |            | 46.0     |            |        |      |  |
|      |       | READINNG(PK) | READINNG(AV) | ANT  | C.Factor | RESULT(PK) | RESULT(AV) | LIMIT      | LIMIT    | MARGIN(PK) | MARGIN(AV) |          |            |        |      |  |
|      |       | HOR. VER.    | HOR. VER.    | TYPE | [dBuV]   | HOR. VER.  | HOR. VER.  | [PK]       | [AV]     | HOR. VER.  | HOR. VER.  |          |            |        |      |  |
|      |       | [dBuV]       | [dBuV]       |      |          | [dBuV/m]   | [dBuV/m]   | [dBuV/m]   | [dBuV/m] | [dB]       | [dB]       | [dB]     | [dB]       |        |      |  |
|      | 1195  |              |              |      | HO       | -11.1      |            |            |          | 74.0       | 54.0       | >27.0    |            | >10.0  |      |  |
|      | 1434  |              |              |      | HO       | -9.8       |            |            |          | 74.0       | 54.0       |          |            |        |      |  |
|      | 1673  |              |              |      | HO       | -7.8       |            |            |          | 74.0       | 54.0       |          |            |        |      |  |
| CH.  | FREQ  | READINNG(QP) |              |      |          | ANT        | C.Factor   | RESULT(QP) |          |            |            | LIMIT    | MARGIN(QP) |        |      |  |
|      | [MHz] | HOR.         | VER.         |      |          | TYPE       | [dBuV]     | HOR.       | VER.     |            |            | [QP]     | HOR.       | VER.   |      |  |
|      |       | [dBuV]       |              |      |          |            |            | [dBuV/m]   |          |            |            | [dBuV/m] | [dB]       | [dB]   |      |  |
| 11   | 245   | 24.5         | 24.3         |      |          | BC         | -3.5       | 21.0       | 20.8     |            |            | 46.0     |            | 25.0   | 25.2 |  |
|      | 490   |              |              |      |          | LO         | -1.5       |            |          |            |            | 46.0     |            | > 15.0 |      |  |
|      | 735   |              |              |      |          | LO         | 3.2        |            |          |            |            | 46.0     |            |        |      |  |
|      | 980   |              |              |      |          | LO         | 8.4        |            |          |            |            | 54.0     |            |        |      |  |
|      |       | READINNG(PK) | READINNG(AV) | ANT  | C.Factor | RESULT(PK) | RESULT(AV) | LIMIT      | LIMIT    | MARGIN(PK) | MARGIN(AV) |          |            |        |      |  |
|      |       | HOR. VER.    | HOR. VER.    | TYPE | [dBuV]   | HOR. VER.  | HOR. VER.  | [PK]       | [AV]     | HOR. VER.  | HOR. VER.  |          |            |        |      |  |
|      |       | [dBuV]       | [dBuV]       |      |          | [dBuV/m]   | [dBuV/m]   | [dBuV/m]   | [dBuV/m] | [dB]       | [dB]       | [dB]     | [dB]       |        |      |  |
|      | 1225  |              |              |      | HO       | -10.8      |            |            |          | 74.0       | 54.0       | >27.0    |            | >10.0  |      |  |
|      | 1470  |              |              |      | HO       | -9.5       |            |            |          | 74.0       | 54.0       |          |            |        |      |  |
|      |       |              |              |      |          |            |            |            |          |            |            |          |            |        |      |  |
| CH.  | FREQ  | READINNG(QP) |              |      |          | ANT        | C.Factor   | RESULT(QP) |          |            |            | LIMIT    | MARGIN(QP) |        |      |  |
|      | [MHz] | HOR.         | VER.         |      |          | TYPE       | [dBuV]     | HOR.       | VER.     |            |            | [QP]     | HOR.       | VER.   |      |  |
|      |       | [dBuV]       |              |      |          |            |            | [dBuV/m]   |          |            |            | [dBuV/m] | [dB]       | [dB]   |      |  |
| 12   | 251   | 23.6         | 23.3         |      |          | BC         | -3.5       | 20.1       | 19.8     |            |            | 46.0     |            | 25.9   | 26.2 |  |
|      | 502   |              |              |      |          | LO         | -1.2       |            |          |            |            | 46.0     |            | > 15.0 |      |  |
|      | 753   |              |              |      |          | LO         | 3.5        |            |          |            |            | 46.0     |            |        |      |  |
|      |       | READINNG(PK) | READINNG(AV) | ANT  | C.Factor | RESULT(PK) | RESULT(AV) | LIMIT      | LIMIT    | MARGIN(PK) | MARGIN(AV) |          |            |        |      |  |
|      |       | HOR. VER.    | HOR. VER.    | TYPE | [dBuV]   | HOR. VER.  | HOR. VER.  | [PK]       | [AV]     | HOR. VER.  | HOR. VER.  |          |            |        |      |  |
|      |       | [dBuV]       | [dBuV]       |      |          | [dBuV/m]   | [dBuV/m]   | [dBuV/m]   | [dBuV/m] | [dB]       | [dB]       | [dB]     | [dB]       |        |      |  |
|      | 1004  |              |              |      | HO       | -12.0      |            |            |          | 74.0       | 54.0       | >27.0    |            | >10.0  |      |  |
|      | 1255  |              |              |      | HO       | -10.6      |            |            |          | 74.0       | 54.0       |          |            |        |      |  |
|      | 1506  |              |              |      | HO       | -9.3       |            |            |          | 74.0       | 54.0       |          |            |        |      |  |
| CH.  | FREQ  | READINNG(QP) |              |      |          | ANT        | C.Factor   | RESULT(QP) |          |            |            | LIMIT    | MARGIN(QP) |        |      |  |
|      | [MHz] | HOR.         | VER.         |      |          | TYPE       | [dBuV]     | HOR.       | VER.     |            |            | [QP]     | HOR.       | VER.   |      |  |
|      |       | [dBuV]       |              |      |          |            |            | [dBuV/m]   |          |            |            | [dBuV/m] | [dB]       | [dB]   |      |  |
| 13   | 257   | 25.7         | 25.5         |      |          | BC         | -3.1       | 22.6       | 22.4     |            |            | 46.0     |            | 23.4   | 23.6 |  |
|      | 514   |              |              |      |          | LO         | -1.0       |            |          |            |            | 46.0     |            | > 15.0 |      |  |
|      | 771   |              |              |      |          | LO         | 3.7        |            |          |            |            | 46.0     |            |        |      |  |
|      |       | READINNG(PK) | READINNG(AV) | ANT  | C.Factor | RESULT(PK) | RESULT(AV) | LIMIT      | LIMIT    | MARGIN(PK) | MARGIN(AV) |          |            |        |      |  |
|      |       | HOR. VER.    | HOR. VER.    | TYPE | [dBuV]   | HOR. VER.  | HOR. VER.  | [PK]       | [AV]     | HOR. VER.  | HOR. VER.  |          |            |        |      |  |
|      |       | [dBuV]       | [dBuV]       |      |          | [dBuV/m]   | [dBuV/m]   | [dBuV/m]   | [dBuV/m] | [dB]       | [dB]       | [dB]     | [dB]       |        |      |  |
|      | 1028  |              |              |      | HO       | -11.9      |            |            |          | 74.0       | 54.0       | >27.0    |            | >10.0  |      |  |
| 1285 |       |              |              | HO   | -10.5    |            |            |            | 74.0     | 54.0       |            |          |            |        |      |  |
| 1542 |       |              |              | HO   | -9.0     |            |            |            | 74.0     | 54.0       |            |          |            |        |      |  |

# DATA OF RADIATION TEST

UL Apex Co., Ltd.  
Yokowa EMC No.2 Open Test Site

COMPANY : Orion Electric Co., Ltd.  
EQUIPMENT : DVD-RW/VCR  
MODEL No. : DVR-RT500-S  
POWER : AC120V/60Hz  
DESCRIPTION : TV Reception+Rec

REPORT No. : 24KE0259-YW-1  
REGULATION : FCC PART15 B  
TEST DISTANCE : 3m  
ATTENUATION : 101-847MHz 6dB  
1030-1694MHz 0dB  
DATE : June 26, 2004  
TEMP./HUMID. : 27 /42%  
ENGINEER : Tsubasa Takayama

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

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

| CH. | FREQ<br>[MHz] | READINNG(QP)<br>HOR. VER.<br>[dBuV]   | READINNG(AV)<br>HOR. VER.<br>[dBuV] | ANT<br>TYPE | C.Factor<br>[dBuV] | RESULT(QP)<br>HOR. VER.<br>[dBuV/m] | RESULT(AV)<br>HOR. VER.<br>[dBuV/m] | LIMIT<br>[QP]<br>[dBuV/m] | LIMIT<br>[AV]<br>[dBuV/m] | MARGIN(QP)<br>HOR. VER.<br>[dB] | MARGIN(AV)<br>HOR. VER.<br>[dB] |
|-----|---------------|---------------------------------------|-------------------------------------|-------------|--------------------|-------------------------------------|-------------------------------------|---------------------------|---------------------------|---------------------------------|---------------------------------|
| UHF |               |                                       |                                     |             |                    |                                     |                                     |                           |                           |                                 |                                 |
| 14  | 517           | 28.6                                  | 30.3                                | LO          | -1.0               | 27.6                                | 29.3                                | 46.0                      |                           | 18.4                            | 16.7                            |
|     |               | READINNG(PK)<br>HOR. VER.<br>[dBuV]   | READINNG(AV)<br>HOR. VER.<br>[dBuV] | ANT<br>TYPE | C.Factor<br>[dBuV] | RESULT(PK)<br>HOR. VER.<br>[dBuV/m] | RESULT(AV)<br>HOR. VER.<br>[dBuV/m] | LIMIT<br>[PK]<br>[dBuV/m] | LIMIT<br>[AV]<br>[dBuV/m] | MARGIN(PK)<br>HOR. VER.<br>[dB] | MARGIN(AV)<br>HOR. VER.<br>[dB] |
|     | 1034          |                                       |                                     | HO          | -11.9              |                                     |                                     | 74.0                      | 54.0                      | >27.0                           | >10.0                           |
|     | 1551          |                                       |                                     | HO          | -8.9               |                                     |                                     | 74.0                      | 54.0                      |                                 |                                 |
| CH. | FREQ<br>[MHz] | READINNG(QP)<br>HOR. VER.<br>[dBuV]   | READINNG(AV)<br>HOR. VER.<br>[dBuV] | ANT<br>TYPE | C.Factor<br>[dBuV] | RESULT(QP)<br>HOR. VER.<br>[dBuV/m] | RESULT(AV)<br>HOR. VER.<br>[dBuV/m] | LIMIT<br>[QP]<br>[dBuV/m] | LIMIT<br>[AV]<br>[dBuV/m] | MARGIN(QP)<br>HOR. VER.<br>[dB] | MARGIN(AV)<br>HOR. VER.<br>[dB] |
| 19  | 547           | 29.8                                  | 30.5                                | LO          | -0.3               | 29.5                                | 30.2                                | 46.0                      |                           | 16.5                            | 15.8                            |
|     |               | READINNG(PK)<br>HOR. VER.<br>[dBuV]   | READINNG(AV)<br>HOR. VER.<br>[dBuV] | ANT<br>TYPE | C.Factor<br>[dBuV] | RESULT(PK)<br>HOR. VER.<br>[dBuV/m] | RESULT(AV)<br>HOR. VER.<br>[dBuV/m] | LIMIT<br>[PK]<br>[dBuV/m] | LIMIT<br>[AV]<br>[dBuV/m] | MARGIN(PK)<br>HOR. VER.<br>[dB] | MARGIN(AV)<br>HOR. VER.<br>[dB] |
|     | 1094          |                                       |                                     | HO          | -11.5              |                                     |                                     | 74.0                      | 54.0                      | >27.0                           | >10.0                           |
|     | 1641          |                                       |                                     | HO          | -8.0               |                                     |                                     | 74.0                      | 54.0                      |                                 |                                 |
| CH. | FREQ<br>[MHz] | READINNG(QP)<br>HOR. VER.<br>[dBuV]   | READINNG(AV)<br>HOR. VER.<br>[dBuV] | ANT<br>TYPE | C.Factor<br>[dBuV] | RESULT(QP)<br>HOR. VER.<br>[dBuV/m] | RESULT(AV)<br>HOR. VER.<br>[dBuV/m] | LIMIT<br>[QP]<br>[dBuV/m] | LIMIT<br>[AV]<br>[dBuV/m] | MARGIN(QP)<br>HOR. VER.<br>[dB] | MARGIN(AV)<br>HOR. VER.<br>[dB] |
| 28  | 601           | 26.4                                  | 27.8                                | LO          | 0.7                | 27.1                                | 28.5                                | 46.0                      | -                         | 18.9                            | 17.5                            |
|     |               | READINNG(PK)<br>HOR. VER.<br>[dBuV]   | READINNG(AV)<br>HOR. VER.<br>[dBuV] | ANT<br>TYPE | C.Factor<br>[dBuV] | RESULT(PK)<br>HOR. VER.<br>[dBuV/m] | RESULT(AV)<br>HOR. VER.<br>[dBuV/m] | LIMIT<br>[PK]<br>[dBuV/m] | LIMIT<br>[AV]<br>[dBuV/m] | MARGIN(PK)<br>HOR. VER.<br>[dB] | MARGIN(AV)<br>HOR. VER.<br>[dB] |
|     | 1202          |                                       |                                     | HO          | -10.9              |                                     |                                     | 74.0                      | 54.0                      | >27.0                           | >10.0                           |
| CH. | FREQ<br>[MHz] | READINNG(QP)<br>HOR. VER.<br>[dBuV]   | READINNG(AV)<br>HOR. VER.<br>[dBuV] | ANT<br>TYPE | C.Factor<br>[dBuV] | RESULT(QP)<br>HOR. VER.<br>[dBuV/m] | RESULT(AV)<br>HOR. VER.<br>[dBuV/m] | LIMIT<br>[QP]<br>[dBuV/m] | LIMIT<br>[AV]<br>[dBuV/m] | MARGIN(QP)<br>HOR. VER.<br>[dB] | MARGIN(AV)<br>HOR. VER.<br>[dB] |
| 36  | 649           | 26.1                                  | 27.3                                | LO          | 1.6                | 27.7                                | 28.9                                | 46.0                      | -                         | 18.3                            | 17.1                            |
|     |               | READINNG(PK)<br>HOR. #NAME?<br>[dBuV] | READINNG(AV)<br>HOR. VER.<br>[dBuV] | ANT<br>TYPE | C.Factor<br>[dBuV] | RESULT(PK)<br>HOR. VER.<br>[dBuV/m] | RESULT(AV)<br>HOR. VER.<br>[dBuV/m] | LIMIT<br>[PK]<br>[dBuV/m] | LIMIT<br>[AV]<br>[dBuV/m] | MARGIN(PK)<br>HOR. VER.<br>[dB] | MARGIN(AV)<br>HOR. VER.<br>[dB] |
|     | 1298          |                                       |                                     | HO          | -10.5              |                                     |                                     | 74.0                      | 54.0                      | >27.0                           | >10.0                           |
| CH. | FREQ<br>[MHz] | READINNG(QP)<br>HOR. VER.<br>[dBuV]   | READINNG(AV)<br>HOR. VER.<br>[dBuV] | ANT<br>TYPE | C.Factor<br>[dBuV] | RESULT(QP)<br>HOR. VER.<br>[dBuV/m] | RESULT(AV)<br>HOR. VER.<br>[dBuV/m] | LIMIT<br>[QP]<br>[dBuV/m] | LIMIT<br>[AV]<br>[dBuV/m] | MARGIN(QP)<br>HOR. VER.<br>[dB] | MARGIN(AV)<br>HOR. VER.<br>[dB] |
| 44  | 697           | 24.3                                  | 25.3                                | LO          | 2.6                | 26.9                                | 27.9                                | 46.0                      | -                         | 19.1                            | 18.1                            |
|     |               | READINNG(PK)<br>HOR. VER.<br>[dBuV]   | READINNG(AV)<br>HOR. VER.<br>[dBuV] | ANT<br>TYPE | C.Factor<br>[dBuV] | RESULT(PK)<br>HOR. VER.<br>[dBuV/m] | RESULT(AV)<br>HOR. VER.<br>[dBuV/m] | LIMIT<br>[PK]<br>[dBuV/m] | LIMIT<br>[AV]<br>[dBuV/m] | MARGIN(PK)<br>HOR. VER.<br>[dB] | MARGIN(AV)<br>HOR. VER.<br>[dB] |
|     | 1394          |                                       |                                     | HO          | -9.9               |                                     |                                     | 74.0                      | 54.0                      | >27.0                           | >10.0                           |
| CH. | FREQ<br>[MHz] | READINNG(QP)<br>HOR. VER.<br>[dBuV]   | READINNG(AV)<br>HOR. VER.<br>[dBuV] | ANT<br>TYPE | C.Factor<br>[dBuV] | RESULT(QP)<br>HOR. VER.<br>[dBuV/m] | RESULT(AV)<br>HOR. VER.<br>[dBuV/m] | LIMIT<br>[QP]<br>[dBuV/m] | LIMIT<br>[AV]<br>[dBuV/m] | MARGIN(QP)<br>HOR. VER.<br>[dB] | MARGIN(AV)<br>HOR. VER.<br>[dB] |
| 53  | 751           | 24.6                                  | 27.1                                | LO          | 3.4                | 28.0                                | 30.5                                | 46.0                      | -                         | 18.0                            | 15.5                            |
|     |               | READINNG(PK)<br>HOR. VER.<br>[dBuV]   | READINNG(AV)<br>HOR. VER.<br>[dBuV] | ANT<br>TYPE | C.Factor<br>[dBuV] | RESULT(PK)<br>HOR. VER.<br>[dBuV/m] | RESULT(AV)<br>HOR. VER.<br>[dBuV/m] | LIMIT<br>[PK]<br>[dBuV/m] | LIMIT<br>[AV]<br>[dBuV/m] | MARGIN(PK)<br>HOR. VER.<br>[dB] | MARGIN(AV)<br>HOR. VER.<br>[dB] |
|     | 1502          |                                       |                                     | HO          | -9.3               |                                     |                                     | 74.0                      | 54.0                      | >27.0                           | >10.0                           |
| CH. | FREQ<br>[MHz] | READINNG(QP)<br>HOR. VER.<br>[dBuV]   | READINNG(AV)<br>HOR. VER.<br>[dBuV] | ANT<br>TYPE | C.Factor<br>[dBuV] | RESULT(QP)<br>HOR. VER.<br>[dBuV/m] | RESULT(AV)<br>HOR. VER.<br>[dBuV/m] | LIMIT<br>[QP]<br>[dBuV/m] | LIMIT<br>[AV]<br>[dBuV/m] | MARGIN(QP)<br>HOR. VER.<br>[dB] | MARGIN(AV)<br>HOR. VER.<br>[dB] |
| 61  | 799           | 24.1                                  | 24.2                                | LO          | 4.1                | 28.2                                | 28.3                                | 46.0                      | -                         | 17.8                            | 17.7                            |
|     |               | READINNG(PK)<br>HOR. VER.<br>[dBuV]   | READINNG(AV)<br>HOR. VER.<br>[dBuV] | ANT<br>TYPE | C.Factor<br>[dBuV] | RESULT(PK)<br>HOR. VER.<br>[dBuV/m] | RESULT(AV)<br>HOR. VER.<br>[dBuV/m] | LIMIT<br>[PK]<br>[dBuV/m] | LIMIT<br>[AV]<br>[dBuV/m] | MARGIN(PK)<br>HOR. VER.<br>[dB] | MARGIN(AV)<br>HOR. VER.<br>[dB] |
|     | 1598          |                                       |                                     | HO          | -8.4               |                                     |                                     | 74.0                      | 54.0                      | >27.0                           | >10.0                           |
| CH. | FREQ<br>[MHz] | READINNG(QP)<br>HOR. VER.<br>[dBuV]   | READINNG(AV)<br>HOR. VER.<br>[dBuV] | ANT<br>TYPE | C.Factor<br>[dBuV] | RESULT(QP)<br>HOR. VER.<br>[dBuV/m] | RESULT(AV)<br>HOR. VER.<br>[dBuV/m] | LIMIT<br>[QP]<br>[dBuV/m] | LIMIT<br>[AV]<br>[dBuV/m] | MARGIN(QP)<br>HOR. VER.<br>[dB] | MARGIN(AV)<br>HOR. VER.<br>[dB] |
| 69  | 847           | 25.1                                  | 24.5                                | LO          | 4.5                | 29.6                                | 29.0                                | 46.0                      | -                         | 16.4                            | 17.0                            |
|     |               | READINNG(PK)<br>HOR. VER.<br>[dBuV]   | READINNG(AV)<br>HOR. VER.<br>[dBuV] | ANT<br>TYPE | C.Factor<br>[dBuV] | RESULT(PK)<br>HOR. VER.<br>[dBuV/m] | RESULT(AV)<br>HOR. VER.<br>[dBuV/m] | LIMIT<br>[PK]<br>[dBuV/m] | LIMIT<br>[AV]<br>[dBuV/m] | MARGIN(PK)<br>HOR. VER.<br>[dB] | MARGIN(AV)<br>HOR. VER.<br>[dB] |
|     | 1694          |                                       |                                     | HO          | -7.6               |                                     |                                     | 74.0                      | 54.0                      | >27.0                           | >10.0                           |

# DATA OF RADIATION TEST

UL Apex Co., Ltd.  
Yokowa EMC No.2 Open Test Site

COMPANY : Orion Electric Co., Ltd.  
EQUIPMENT : DVD-RW/VCR  
MODEL No. : DVR-RT500-S  
POWER : AC120V/60Hz  
DESCRIPTION : TV Reception+Rec

REPORT No. : 24KE0259-YW-1  
REGULATION : FCC PART15 B  
TEST DISTANCE : 3m  
ATTENUATION : 101-847MHz 6dB  
1030-1694MHz 0dB  
DATE : June 26, 2004  
TEMP./HUMID. : 27 /42%  
ENGINEER : Tsubasa Takayama

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

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

| CH.  | FREQ  | READINNG(QP) |              |        |          | ANT          | C.Factor     | RESULT(QP) |       |            |            | LIMIT    |       |          | MARGIN(QP) |       |  |          |            |
|------|-------|--------------|--------------|--------|----------|--------------|--------------|------------|-------|------------|------------|----------|-------|----------|------------|-------|--|----------|------------|
|      | [MHz] | HOR.         | VER.         |        |          | TYPE         | [dBuV]       | HOR.       | VER.  |            |            | [QP]     |       |          | HOR.       | VER.  |  |          |            |
|      |       | [dBuV]       |              |        |          |              |              | [dBuV/m]   |       |            |            | [dBuV/m] |       |          | [dB]       | [dB]  |  |          |            |
| CATV |       |              |              |        |          |              |              |            |       |            |            |          |       |          |            |       |  |          |            |
| 1    | 119   | 24.2         | 24.2         |        |          | BC           | -7.7         | 16.5       | 16.5  |            |            | 43.5     |       |          | 27.0       | 27.0  |  |          |            |
|      | 238   |              |              |        |          | BC           | -3.5         |            |       |            |            | 46.0     |       |          | >15.0      |       |  |          |            |
|      | 357   |              |              |        |          | LO           | -5.0         |            |       |            |            | 46.0     |       |          |            |       |  |          |            |
|      | 476   |              |              |        |          | LO           | -2.1         |            |       |            |            | 46.0     |       |          |            |       |  |          |            |
|      | 595   |              |              |        |          | LO           | 0.6          |            |       |            |            | 46.0     |       |          |            |       |  |          |            |
|      | 714   |              |              |        |          | LO           | 2.9          |            |       |            |            | 46.0     |       |          |            |       |  |          |            |
|      | 833   |              |              |        |          | LO           | 4.6          |            |       |            |            | 46.0     |       |          |            |       |  |          |            |
|      | 952   | LO           | 7.4          | 46.0   |          |              |              |            |       |            |            |          |       |          |            |       |  |          |            |
|      |       | READINNG(PK) | READINNG(AV) | ANT    | C.Factor | RESULT(PK)   | RESULT(AV)   | LIMIT      | LIMIT | MARGIN(PK) | MARGIN(AV) |          |       |          |            |       |  |          |            |
|      |       | HOR. VER.    | HOR. VER.    | TYPE   | [dBuV]   | HOR. VER.    | HOR. VER.    | [PK]       | [AV]  | HOR. VER.  | HOR. VER.  | [dB]     | [dB]  | [dB]     | [dB]       |       |  |          |            |
|      |       | [dBuV]       |              | [dBuV] |          |              |              | [dBuV/m]   |       | [dBuV/m]   |            | [dBuV/m] |       | [dBuV/m] |            | [dB]  |  | [dB]     |            |
|      | 1071  |              |              |        | HO       | -11.7        |              |            |       |            | 74.0       | 54.0     | >27.0 | >10.0    |            |       |  |          |            |
| 1190 | HO    |              |              |        | -11.1    | 74.0         |              |            |       |            | 54.0       |          |       |          |            |       |  |          |            |
| 1309 | HO    |              |              |        | -10.4    | 74.0         |              |            |       |            | 54.0       |          |       |          |            |       |  |          |            |
| 1428 | HO    |              |              |        | -9.8     | 74.0         |              |            |       |            | 54.0       |          |       |          |            |       |  |          |            |
| 1547 | HO    |              |              |        | -8.9     | 74.0         |              |            |       |            | 54.0       |          |       |          |            |       |  |          |            |
| 1666 | HO    |              |              |        | -7.8     | 74.0         |              |            |       |            | 54.0       |          |       |          |            |       |  |          |            |
| CH.  | FREQ  | READINNG(QP) |              |        |          | ANT          | C.Factor     | RESULT(QP) |       |            |            | LIMIT    |       |          | MARGIN(QP) |       |  |          |            |
|      | [MHz] | HOR.         | VER.         |        |          | TYPE         | [dBuV]       | HOR.       | VER.  |            |            | [QP]     |       |          | HOR.       | VER.  |  |          |            |
|      |       | [dBuV]       |              |        |          |              |              | [dBuV/m]   |       |            |            | [dBuV/m] |       |          | [dB]       | [dB]  |  |          |            |
| 95   | 137   | 23.2         | 23.5         |        |          | BC           | -6.4         | 16.8       | 17.1  |            |            | 43.5     |       |          | 26.7       | 26.4  |  |          |            |
|      | 274   |              |              |        |          | BC           | -2.2         |            |       |            |            | 46.0     |       |          | >15.0      |       |  |          |            |
|      | 411   |              |              |        |          | LO           | -4.0         |            |       |            |            | 46.0     |       |          |            |       |  |          |            |
|      | 548   |              |              |        |          | LO           | -0.3         |            |       |            |            | 46.0     |       |          |            |       |  |          |            |
|      | 685   |              |              |        |          | LO           | 2.3          |            |       |            |            | 46.0     |       |          |            |       |  |          |            |
|      | 822   |              |              |        |          | LO           | 4.4          |            |       |            |            | 46.0     |       |          |            |       |  |          |            |
|      | 959   |              |              |        |          | LO           | 7.5          |            |       |            |            | 46.0     |       |          |            |       |  |          |            |
|      |       | READINNG(PK) | READINNG(AV) | ANT    | C.Factor | RESULT(PK)   | RESULT(AV)   | LIMIT      | LIMIT | MARGIN(PK) | MARGIN(AV) |          |       |          |            |       |  |          |            |
|      |       | HOR. VER.    | HOR. VER.    | TYPE   | [dBuV]   | HOR. VER.    | HOR. VER.    | [PK]       | [AV]  | HOR. VER.  | HOR. VER.  | [dB]     | [dB]  | [dB]     | [dB]       |       |  |          |            |
|      |       | [dBuV]       |              | [dBuV] |          |              |              | [dBuV/m]   |       | [dBuV/m]   |            | [dBuV/m] |       | [dBuV/m] |            | [dB]  |  | [dB]     |            |
|      | 1096  |              |              |        | HO       | -11.5        |              |            |       |            | 74.0       | 54.0     | >27.0 | >10.0    |            |       |  |          |            |
|      | 1233  |              |              |        | HO       | -10.8        |              |            |       |            | 74.0       | 54.0     |       |          |            |       |  |          |            |
| 1370 | HO    |              |              |        | -10.0    | 74.0         |              |            |       |            | 54.0       |          |       |          |            |       |  |          |            |
| 1507 | HO    |              |              |        | -9.2     | 74.0         |              |            |       |            | 54.0       |          |       |          |            |       |  |          |            |
| 1644 | HO    |              |              |        | -8.0     | 74.0         |              |            |       |            | 54.0       |          |       |          |            |       |  |          |            |
|      |       |              |              |        |          |              |              |            |       |            |            |          |       |          |            |       |  |          |            |
| CH.  | FREQ  | READINNG(QP) |              |        |          | ANT          | C.Factor     | RESULT(QP) |       |            |            | LIMIT    |       |          | MARGIN(QP) |       |  |          |            |
|      | [MHz] | HOR.         | VER.         |        |          | TYPE         | [dBuV]       | HOR.       | VER.  |            |            | [QP]     |       |          | HOR.       | VER.  |  |          |            |
|      |       | [dBuV]       |              |        |          |              |              | [dBuV/m]   |       |            |            | [dBuV/m] |       |          | [dB]       | [dB]  |  |          |            |
| 97   | 149   | 24.2         | 24.3         |        |          | BC           | -6.0         | 18.2       | 18.3  |            |            | 43.5     |       |          | 25.3       | 25.2  |  |          |            |
|      | 298   |              |              |        |          | BC           | -1.0         |            |       |            |            | 46.0     |       |          | >15.0      |       |  |          |            |
|      | 447   |              |              |        |          | LO           | -2.8         |            |       |            |            | 46.0     |       |          |            |       |  |          |            |
|      | 596   |              |              |        |          | LO           | 0.6          |            |       |            |            | 46.0     |       |          |            |       |  |          |            |
|      | 745   |              |              |        |          | LO           | 3.3          |            |       |            |            | 46.0     |       |          |            |       |  |          |            |
|      | 894   |              |              |        |          | LO           | 5.5          |            |       |            |            | 46.0     |       |          |            |       |  |          |            |
|      |       |              |              |        |          | READINNG(PK) | READINNG(AV) |            |       |            |            | ANT      |       |          |            |       |  | C.Factor | RESULT(PK) |
|      |       | HOR. VER.    | HOR. VER.    | TYPE   | [dBuV]   | HOR. VER.    | HOR. VER.    | [PK]       | [AV]  | HOR. VER.  | HOR. VER.  | [dB]     | [dB]  | [dB]     | [dB]       |       |  |          |            |
|      |       | [dBuV]       |              | [dBuV] |          |              |              | [dBuV/m]   |       | [dBuV/m]   |            | [dBuV/m] |       | [dBuV/m] |            | [dB]  |  | [dB]     |            |
|      | 1043  |              |              |        | HO       | -11.8        |              |            |       |            | -          | -        | 74.0  | 54.0     | >27.0      | >10.0 |  |          |            |
|      | 1192  |              |              |        | HO       | -11.1        |              |            |       |            | -          | -        | 74.0  | 54.0     |            |       |  |          |            |
|      | 1341  |              |              |        | HO       | -10.2        |              |            |       |            | -          | -        | 74.0  | 54.0     |            |       |  |          |            |
| 1490 | HO    |              |              |        | -9.4     | -            |              |            |       |            | -          | 74.0     | 54.0  |          |            |       |  |          |            |
| 1639 | HO    |              |              |        | -8.0     | -            |              |            |       |            | -          | 74.0     | 54.0  |          |            |       |  |          |            |
|      |       |              |              |        |          |              |              |            |       |            |            |          |       |          |            |       |  |          |            |
| CH.  | FREQ  | READINNG(QP) |              |        |          | ANT          | C.Factor     | RESULT(QP) |       |            |            | LIMIT    |       |          | MARGIN(QP) |       |  |          |            |
|      | [MHz] | HOR.         | VER.         |        |          | TYPE         | [dBuV]       | HOR.       | VER.  |            |            | [QP]     |       |          | HOR.       | VER.  |  |          |            |
|      |       | [dBuV]       |              |        |          |              |              | [dBuV/m]   |       |            |            | [dBuV/m] |       |          | [dB]       | [dB]  |  |          |            |
| 99   | 161   | 23.1         | 23.3         |        |          | BC           | -5.6         | 17.5       | 17.7  |            |            | 43.5     |       |          | 26.0       | 25.8  |  |          |            |
|      | 322   |              |              |        |          | LO           | -5.6         |            |       |            |            | 46.0     |       |          | >15.0      |       |  |          |            |
|      | 483   |              |              |        |          | LO           | -1.7         |            |       |            |            | 46.0     |       |          |            |       |  |          |            |
|      | 644   |              |              |        |          | LO           | 1.5          |            |       |            |            | 46.0     |       |          |            |       |  |          |            |
|      | 805   |              |              |        |          | LO           | 4.2          |            |       |            |            | 46.0     |       |          |            |       |  |          |            |
|      | 966   |              |              |        |          | LO           | 7.9          |            |       |            |            | 46.0     |       |          |            |       |  |          |            |
|      |       |              |              |        |          | READINNG(PK) | READINNG(AV) |            |       |            |            | ANT      |       |          |            |       |  | C.Factor | RESULT(PK) |
|      |       | HOR. VER.    | HOR. VER.    | TYPE   | [dBuV]   | HOR. VER.    | HOR. VER.    | [PK]       | [AV]  | HOR. VER.  | HOR. VER.  | [dB]     | [dB]  | [dB]     | [dB]       |       |  |          |            |
|      |       | [dBuV]       |              | [dBuV] |          |              |              | [dBuV/m]   |       | [dBuV/m]   |            | [dBuV/m] |       | [dBuV/m] |            | [dB]  |  | [dB]     |            |
|      | 1127  |              |              |        | HO       | -11.3        |              |            |       |            | 74.0       | 54.0     | >27.0 | >10.0    |            |       |  |          |            |
|      | 1288  |              |              |        | HO       | -10.5        |              |            |       |            | 74.0       | 54.0     |       |          |            |       |  |          |            |
|      | 1449  |              |              |        | HO       | -9.7         |              |            |       |            | 74.0       | 54.0     |       |          |            |       |  |          |            |
| 1610 | HO    |              |              |        | -8.3     | 74.0         |              |            |       |            | 54.0       |          |       |          |            |       |  |          |            |

# DATA OF RADIATION TEST

UL Apex Co., Ltd.  
Yokowa EMC No.2 Open Test Site

COMPANY : Orion Electric Co., Ltd.  
EQUIPMENT : DVD-RW/VCR  
MODEL No. : DVR-RT500-S  
POWER : AC120V/60Hz  
DESCRIPTION : TV Reception+Rec

REPORT No. : 24KE0259-YW-1  
REGULATION : FCC PART15 B  
TEST DISTANCE : 3m  
ATTENUATION : 101-847MHz 6dB  
1030-1694MHz 0dB  
DATE : June 26, 2004  
TEMP./HUMID. : 27 /42%  
ENGINEER : Tsubasa Takayama

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

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

| CH.  | FREQ  | READINNG(QP) |              |        |          | ANT        | C.Factor   | RESULT(QP) |            |            |            | LIMIT |       | MARGIN(QP) |            |           |  |
|------|-------|--------------|--------------|--------|----------|------------|------------|------------|------------|------------|------------|-------|-------|------------|------------|-----------|--|
|      | [MHz] | HOR. VER.    |              | [dBuV] |          | TYPE       | [dBuV]     | HOR. VER.  |            | [dBuV/m]   |            | [QP]  |       | HOR. VER.  |            | [dB] [dB] |  |
| CATV |       |              |              |        |          |            |            |            |            |            |            |       |       |            |            |           |  |
| 14   | 167   | 23.0         | 23.2         |        |          | BC         | -5.1       | 17.9       | 18.1       |            |            | 43.5  |       | 25.6       | 25.4       |           |  |
|      | 334   |              |              |        |          | LO         | -5.4       |            |            |            |            | 46.0  |       | >15.0      |            |           |  |
|      | 501   |              |              |        |          | LO         | -1.2       |            |            |            |            | 46.0  |       |            |            |           |  |
|      | 668   |              |              |        |          | LO         | 2.1        |            |            |            |            | 46.0  |       |            |            |           |  |
|      | 835   |              |              |        |          | LO         | 4.6        |            |            |            |            | 46.0  |       |            |            |           |  |
|      |       | READINNG(PK) | READINNG(AV) | ANT    | C.Factor | RESULT(PK) | RESULT(AV) | LIMIT      | LIMIT      | MARGIN(PK) | MARGIN(AV) |       |       |            |            |           |  |
|      |       | HOR. VER.    | HOR. VER.    | TYPE   |          | HOR. VER.  | HOR. VER.  | [PK]       | [AV]       | HOR. VER.  | HOR. VER.  |       |       |            |            |           |  |
|      |       | [dBuV]       | [dBuV]       |        | [dBuV]   | [dBuV/m]   | [dBuV/m]   | [dBuV/m]   | [dBuV/m]   | [dB]       | [dB]       |       |       |            |            |           |  |
|      |       |              |              |        |          |            |            |            |            |            |            |       |       |            |            |           |  |
|      | 1002  |              |              |        | HO       | -12.0      |            |            |            | 74.0       | 54.0       | >27.0 |       | >10.0      |            |           |  |
|      | 1169  |              |              |        | HO       | -11.2      |            |            |            | 74.0       | 54.0       |       |       |            |            |           |  |
| 1336 | HO    |              |              |        | -10.2    | 74.0       |            |            |            | 54.0       |            |       |       |            |            |           |  |
| 1503 | HO    |              |              |        | -9.3     | 74.0       |            |            |            | 54.0       |            |       |       |            |            |           |  |
| 1670 | HO    |              |              |        | -7.8     | 74.0       |            |            |            | 54.0       |            |       |       |            |            |           |  |
| CH.  | FREQ  | READINNG(QP) |              |        |          | ANT        | C.Factor   | RESULT(QP) |            |            |            | LIMIT |       | MARGIN(QP) |            |           |  |
|      | [MHz] | HOR. VER.    |              | [dBuV] |          | TYPE       | [dBuV]     | HOR. VER.  |            | [dBuV/m]   |            | [QP]  |       | HOR. VER.  |            | [dB] [dB] |  |
| 18   | 191   | 24.1         | 24.3         |        |          | BC         | -3.8       | 20.3       | 20.5       |            |            | 43.5  |       | 23.2       | 23.0       |           |  |
|      | 382   |              |              |        |          | LO         | -4.4       |            |            |            |            | 46.0  |       | >15.0      |            |           |  |
|      | 573   |              |              |        |          | LO         | 0.2        |            |            |            |            | 46.0  |       |            |            |           |  |
|      | 764   |              |              |        |          | LO         | 3.5        |            |            |            |            | 46.0  |       |            |            |           |  |
|      | 955   |              |              |        |          | LO         | 7.5        |            |            |            |            | 46.0  |       |            |            |           |  |
|      |       | READINNG(PK) | READINNG(AV) | ANT    | C.Factor | RESULT(PK) | RESULT(AV) | LIMIT      | LIMIT      | MARGIN(PK) | MARGIN(AV) |       |       |            |            |           |  |
|      |       | HOR. VER.    | HOR. VER.    | TYPE   |          | HOR. VER.  | HOR. VER.  | [PK]       | [AV]       | HOR. VER.  | HOR. VER.  |       |       |            |            |           |  |
|      |       | [dBuV]       | [dBuV]       |        | [dBuV]   | [dBuV/m]   | [dBuV/m]   | [dBuV/m]   | [dBuV/m]   | [dB]       | [dB]       |       |       |            |            |           |  |
|      |       |              |              |        |          |            |            |            |            |            |            |       |       |            |            |           |  |
|      | 1146  |              |              |        | HO       | -11.2      |            |            |            | 74.0       | 54.0       | >27.0 |       | >10.0      |            |           |  |
|      | 1337  |              |              |        | HO       | -10.2      |            |            |            | 74.0       | 54.0       |       |       |            |            |           |  |
| 1528 | HO    |              |              |        | -9.1     | 74.0       |            |            |            | 54.0       |            |       |       |            |            |           |  |
| CH.  | FREQ  | READING(QP)  |              |        |          | ANT        | C.Factor   | RESULT(QP) |            |            |            | LIMIT |       | MARGIN(QP) |            |           |  |
|      | [MHz] | HOR. VER.    |              | [dBuV] |          | TYPE       | [dBuV]     | HOR. VER.  |            | [dBuV/m]   |            | [QP]  |       | HOR. VER.  |            | [dB]      |  |
| 22   | 215   | 24.3         | 24.1         |        |          | BC         | -3.8       | 20.5       | 20.3       |            |            | 43.5  |       | 23.0       | 23.2       |           |  |
|      | 430   |              |              |        |          | LO         | -3.4       |            |            |            |            | 46.0  |       | >15.0      |            |           |  |
|      | 645   |              |              |        |          | LO         | 1.5        |            |            |            |            | 46.0  |       |            |            |           |  |
|      | 860   |              |              |        |          | LO         | 4.9        |            |            |            |            | 46.0  |       |            |            |           |  |
|      |       | READING(PK)  | READING(AV)  | ANT    | C.Factor | RESULT(PK) | RESULT(AV) | LIMIT      | LIMIT      | MARGIN(PK) | MARGIN(AV) |       |       |            |            |           |  |
|      |       | HOR. VER.    | HOR. VER.    | TYPE   |          | HOR. VER.  | HOR. VER.  | [PK]       | [AV]       | HOR. VER.  | HOR. VER.  |       |       |            |            |           |  |
|      |       | [dBuV]       | [dBuV]       |        | [dBuV]   | [dBuV/m]   | [dBuV/m]   | [dBuV/m]   | [dBuV/m]   | [dB]       | [dB]       |       |       |            |            |           |  |
|      |       |              |              |        |          |            |            |            |            |            |            |       |       |            |            |           |  |
|      | 1075  |              |              |        | HO       | -11.6      |            |            |            | 74.0       | 54.0       | >27.0 |       | >10.0      |            |           |  |
|      | 1290  |              |              |        | HO       | -10.5      |            |            |            | 74.0       | 54.0       |       |       |            |            |           |  |
|      | 1505  |              |              |        | HO       | -9.3       |            |            |            | 74.0       | 54.0       |       |       |            |            |           |  |
| CH.  | FREQ  | READING(QP)  |              |        |          | ANT        | C.Factor   | RESULT(QP) |            |            |            | LIMIT |       | MARGIN(QP) |            |           |  |
|      | [MHz] | HOR. VER.    |              | [dBuV] |          | TYPE       | [dBuV]     | HOR. VER.  |            | [dBuV/m]   |            | [QP]  |       | HOR. VER.  |            | [dB]      |  |
| 23   | 263   | 23.5         | 23.7         |        |          | BC         | -2.8       | 20.7       | 20.9       |            |            | 46.0  | 46.0  | 25.3       | 25.1       |           |  |
|      | 526   |              |              |        |          | LO         | -0.7       |            |            |            |            | 46.0  | 46.0  |            |            |           |  |
|      | 789   |              |              |        |          | LO         | 3.8        |            |            |            |            | 46.0  |       |            |            |           |  |
|      |       | READING(PK)  | READING(AV)  | ANT    | C.Factor | RESULT(PK) | RESULT(AV) | LIMIT      | LIMIT      | MARGIN(PK) | MARGIN(AV) |       |       |            |            |           |  |
|      |       | HOR. VER.    | HOR. VER.    | TYPE   |          | HOR. VER.  | HOR. VER.  | [PK]       | [AV]       | HOR. VER.  | HOR. VER.  |       |       |            |            |           |  |
|      |       | [dBuV]       | [dBuV]       |        | [dBuV]   | [dBuV/m]   | [dBuV/m]   | [dBuV/m]   | [dBuV/m]   | [dB]       | [dB]       |       |       |            |            |           |  |
|      |       |              |              |        |          |            |            |            |            |            |            |       |       |            |            |           |  |
|      | 1052  |              |              |        | HO       | -11.8      |            |            |            | 74.0       | 54.0       | >27.0 |       | >10.0      |            |           |  |
|      | 1315  |              |              |        | HO       | -10.4      |            |            |            | 74.0       | 54.0       |       |       |            |            |           |  |
|      | 1578  |              |              |        | HO       | -8.6       |            |            |            | 74.0       | 54.0       |       |       |            |            |           |  |
|      | CH.   | FREQ         | READING(QP)  |        |          |            | ANT        | C.Factor   | RESULT(QP) |            |            |       | LIMIT |            | MARGIN(QP) |           |  |
|      | [MHz] | HOR. VER.    |              | [dBuV] |          | TYPE       | [dBuV]     | HOR. VER.  |            | [dBuV/m]   |            | [QP]  |       | HOR. VER.  |            | [dB]      |  |
| 29   | 299   | 25.9         | 26.7         |        |          | BC         | -0.9       | 25.0       | 25.8       |            |            | 46.0  | 46.0  | 21.0       | 20.2       |           |  |
|      | 598   |              |              |        |          | LO         | 0.7        |            |            |            |            | 46.0  | 46.0  | >15.0      |            |           |  |
|      | 897   |              |              |        |          | LO         | 5.5        |            |            |            |            | 46.0  |       |            |            |           |  |
|      |       | READING(PK)  | READING(AV)  | ANT    | C.Factor | RESULT(PK) | RESULT(AV) | LIMIT      | LIMIT      | MARGIN(PK) | MARGIN(AV) |       |       |            |            |           |  |
|      |       | HOR. VER.    | HOR. VER.    | TYPE   |          | HOR. VER.  | HOR. VER.  | [PK]       | [AV]       | HOR. VER.  | HOR. VER.  |       |       |            |            |           |  |
|      |       | [dBuV]       | [dBuV]       |        | [dBuV]   | [dBuV/m]   | [dBuV/m]   | [dBuV/m]   | [dBuV/m]   | [dB]       | [dB]       |       |       |            |            |           |  |
|      |       |              |              |        |          |            |            |            |            |            |            |       |       |            |            |           |  |
|      | 1196  |              |              |        | HO       | -11.1      |            |            |            | 74.0       | 54.0       | >27.0 |       | >10.0      |            |           |  |
|      | 1495  |              |              |        | HO       | -9.4       |            |            |            | 74.0       | 54.0       |       |       |            |            |           |  |

# DATA OF RADIATION TEST

UL Apex Co., Ltd.  
Yokowa EMC No.2 Open Test Site

COMPANY : Orion Electric Co., Ltd.  
EQUIPMENT : DVD-RW/VCR  
MODEL No. : DVR-RT500-S  
POWER : AC120V/60Hz  
DESCRIPTION : TV Reception+Rec

REPORT No. : 24KE0259-YW-1  
REGULATION : FCC PART15 B  
TEST DISTANCE : 3m  
ATTENUATION : 101-847MHz 6dB  
1030-1694MHz 0dB  
DATE : June 26, 2004  
TEMP./HUMID. : 27 /42%  
ENGINEER : Tsubasa Takayama

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

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

| CH.  | FREQ<br>[MHz] | READING(QP)<br>HOR. VER.<br>[dBuV] |                                    |             | ANT<br>TYPE        | C.Factor<br>[dBuV]                  | RESULT(QP)<br>HOR. VER.<br>[dBuV/m] |      |                           | LIMIT<br>[QP]<br>[dBuV/m] |                                 | MARGIN(QP)<br>HOR. VER.<br>[dB] |       |  |
|------|---------------|------------------------------------|------------------------------------|-------------|--------------------|-------------------------------------|-------------------------------------|------|---------------------------|---------------------------|---------------------------------|---------------------------------|-------|--|
| CATV |               |                                    |                                    |             |                    |                                     |                                     |      |                           |                           |                                 |                                 |       |  |
| 36   | 341           | 24.1                               | 23.9                               |             | LO                 | -5.4                                | 18.7                                | 18.5 |                           | 46.0                      | 46.0                            | 27.3                            | 27.5  |  |
|      | 682           |                                    |                                    |             | LO                 | 2.2                                 |                                     |      |                           | 46.0                      | 46.0                            | >15.0                           |       |  |
|      |               | READING(PK)<br>HOR. VER.<br>[dBuV] | READING(AV)<br>HOR. VER.<br>[dBuV] | ANT<br>TYPE | C.Factor<br>[dBuV] | RESULT(PK)<br>HOR. VER.<br>[dBuV/m] | RESULT(AV)<br>HOR. VER.<br>[dBuV/m] |      | LIMIT<br>[PK]<br>[dBuV/m] | LIMIT<br>[AV]<br>[dBuV/m] | MARGIN(PK)<br>HOR. VER.<br>[dB] | MARGIN(AV)<br>HOR. VER.<br>[dB] |       |  |
|      | 1023          |                                    |                                    |             | HO                 | -11.9                               |                                     |      |                           | 74.0                      | 54.0                            | >27.0                           | >10.0 |  |
|      | 1364          |                                    |                                    |             | HO                 | -10.1                               |                                     |      |                           | 74.0                      | 54.0                            |                                 |       |  |
| CH.  | FREQ<br>[MHz] | READING(QP)<br>HOR. VER.<br>[dBuV] |                                    |             | ANT<br>TYPE        | C.Factor<br>[dBuV]                  | RESULT(QP)<br>HOR. VER.<br>[dBuV/m] |      |                           | LIMIT<br>[QP]<br>[dBuV/m] |                                 | MARGIN(QP)<br>HOR. VER.<br>[dB] |       |  |
| 37   | 347           | 22.5                               | 23.1                               |             | LO                 | -5.2                                | 17.3                                | 17.9 |                           | 46.0                      | 46.0                            | 28.7                            | 28.1  |  |
|      | 694           |                                    |                                    |             | LO                 | 2.5                                 |                                     |      |                           | 46.0                      | 46.0                            | >15.0                           |       |  |
|      |               | READING(PK)<br>HOR. VER.<br>[dBuV] | READING(AV)<br>HOR. VER.<br>[dBuV] | ANT<br>TYPE | C.Factor<br>[dBuV] | RESULT(PK)<br>HOR. VER.<br>[dBuV/m] | RESULT(AV)<br>HOR. VER.<br>[dBuV/m] |      | LIMIT<br>[PK]<br>[dBuV/m] | LIMIT<br>[AV]<br>[dBuV/m] | MARGIN(PK)<br>HOR. VER.<br>[dB] | MARGIN(AV)<br>HOR. VER.<br>[dB] |       |  |
|      | 1041          |                                    |                                    |             | HO                 | -11.8                               |                                     |      |                           | 74.0                      | 54.0                            | >27.0                           | >10.0 |  |
|      | 1388          |                                    |                                    |             | HO                 | -9.9                                |                                     |      |                           | 74.0                      | 54.0                            |                                 |       |  |
| CH.  | FREQ<br>[MHz] | READING(QP)<br>HOR. VER.<br>[dBuV] |                                    |             | ANT<br>TYPE        | C.Factor<br>[dBuV]                  | RESULT(QP)<br>HOR. VER.<br>[dBuV/m] |      |                           | LIMIT<br>[QP]<br>[dBuV/m] |                                 | MARGIN(QP)<br>HOR. VER.<br>[dB] |       |  |
| 65   | 515           | 26.3                               | 25.1                               |             | LO                 | -1.0                                | 25.3                                | 24.1 |                           | 46.0                      | 46.0                            | 20.7                            | 21.9  |  |
|      |               | READING(PK)<br>HOR. VER.<br>[dBuV] | READING(AV)<br>HOR. VER.<br>[dBuV] | ANT<br>TYPE | C.Factor<br>[dBuV] | RESULT(PK)<br>HOR. VER.<br>[dBuV/m] | RESULT(AV)<br>HOR. VER.<br>[dBuV/m] |      | LIMIT<br>[PK]<br>[dBuV/m] | LIMIT<br>[AV]<br>[dBuV/m] | MARGIN(PK)<br>HOR. VER.<br>[dB] | MARGIN(AV)<br>HOR. VER.<br>[dB] |       |  |
|      | 1030          |                                    |                                    |             | HO                 | -11.9                               |                                     |      |                           | 74.0                      | 54.0                            | >27.0                           | >10.0 |  |
|      | 1545          |                                    |                                    |             | HO                 | -8.9                                |                                     |      |                           | 74.0                      | 54.0                            |                                 |       |  |
| CH.  | FREQ<br>[MHz] | READING(QP)<br>HOR. VER.<br>[dBuV] |                                    |             | ANT<br>TYPE        | C.Factor<br>[dBuV]                  | RESULT(QP)<br>HOR. VER.<br>[dBuV/m] |      |                           | LIMIT<br>[QP]<br>[dBuV/m] |                                 | MARGIN(QP)<br>HOR. VER.<br>[dB] |       |  |
| 94   | 689           | 26.2                               | 26.4                               |             | LO                 | 2.4                                 | 28.6                                | 28.8 |                           | 46.0                      | 46.0                            | 17.4                            | 17.2  |  |
|      |               | READING(PK)<br>HOR. VER.<br>[dBuV] | READING(AV)<br>HOR. VER.<br>[dBuV] | ANT<br>TYPE | C.Factor<br>[dBuV] | RESULT(PK)<br>HOR. VER.<br>[dBuV/m] | RESULT(AV)<br>HOR. VER.<br>[dBuV/m] |      | LIMIT<br>[PK]<br>[dBuV/m] | LIMIT<br>[AV]<br>[dBuV/m] | MARGIN(PK)<br>HOR. VER.<br>[dB] | MARGIN(AV)<br>HOR. VER.<br>[dB] |       |  |
|      | 1378          |                                    |                                    |             | HO                 | -10.0                               |                                     |      |                           | 74.0                      | 54.0                            | >27.0                           | >10.0 |  |
|      |               |                                    |                                    |             |                    |                                     |                                     |      |                           |                           |                                 |                                 |       |  |
| CH.  | FREQ<br>[MHz] | READING(QP)<br>HOR. VER.<br>[dBuV] |                                    |             | ANT<br>TYPE        | C.Factor<br>[dBuV]                  | RESULT(QP)<br>HOR. VER.<br>[dBuV/m] |      |                           | LIMIT<br>[QP]<br>[dBuV/m] |                                 | MARGIN(QP)<br>HOR. VER.<br>[dB] |       |  |
| 100  | 695           | 27.1                               | 25.8                               |             | LO                 | 2.5                                 | 29.6                                | 28.3 |                           | 46.0                      | 46.0                            | 16.4                            | 17.7  |  |
|      |               | READING(PK)<br>HOR. VER.<br>[dBuV] | READING(AV)<br>HOR. VER.<br>[dBuV] | ANT<br>TYPE | C.Factor<br>[dBuV] | RESULT(PK)<br>HOR. VER.<br>[dBuV/m] | RESULT(AV)<br>HOR. VER.<br>[dBuV/m] |      | LIMIT<br>[PK]<br>[dBuV/m] | LIMIT<br>[AV]<br>[dBuV/m] | MARGIN(PK)<br>HOR. VER.<br>[dB] | MARGIN(AV)<br>HOR. VER.<br>[dB] |       |  |
|      | 1390          |                                    |                                    |             | HO                 | -9.9                                |                                     |      |                           | 74.0                      | 54.0                            | >27.0                           | >10.0 |  |
|      |               |                                    |                                    |             |                    |                                     |                                     |      |                           |                           |                                 |                                 |       |  |
| CH.  | FREQ<br>[MHz] | READING(QP)<br>HOR. VER.<br>[dBuV] |                                    |             | ANT<br>TYPE        | C.Factor<br>[dBuV]                  | RESULT(QP)<br>HOR. VER.<br>[dBuV/m] |      |                           | LIMIT<br>[QP]<br>[dBuV/m] |                                 | MARGIN(QP)<br>HOR. VER.<br>[dB] |       |  |
| 113  | 773           | 28.3                               | 27.5                               |             | LO                 | 3.7                                 | 32.0                                | 31.2 |                           | 46.0                      | 46.0                            | 14.0                            | 14.8  |  |
|      |               | READING(PK)<br>HOR. VER.<br>[dBuV] | READING(AV)<br>HOR. VER.<br>[dBuV] | ANT<br>TYPE | C.Factor<br>[dBuV] | RESULT(PK)<br>HOR. VER.<br>[dBuV/m] | RESULT(AV)<br>HOR. VER.<br>[dBuV/m] |      | LIMIT<br>[PK]<br>[dBuV/m] | LIMIT<br>[AV]<br>[dBuV/m] | MARGIN(PK)<br>HOR. VER.<br>[dB] | MARGIN(AV)<br>HOR. VER.<br>[dB] |       |  |
|      | 1546          |                                    |                                    |             | HO                 | -8.9                                |                                     |      |                           | 74.0                      | 54.0                            | >27.0                           | >10.0 |  |
|      |               |                                    |                                    |             |                    |                                     |                                     |      |                           |                           |                                 |                                 |       |  |
| CH.  | FREQ<br>[MHz] | READING(QP)<br>HOR. VER.<br>[dBuV] |                                    |             | ANT<br>TYPE        | C.Factor<br>[dBuV]                  | RESULT(QP)<br>HOR. VER.<br>[dBuV/m] |      |                           | LIMIT<br>[QP]<br>[dBuV/m] |                                 | MARGIN(QP)<br>HOR. VER.<br>[dB] |       |  |
| 125  | 845           | 24.6                               | 25.3                               |             | LO                 | 4.5                                 | 29.1                                | 29.8 |                           | 46.0                      | 46.0                            | 16.9                            | 16.2  |  |
|      |               | READING(PK)<br>HOR. VER.<br>[dBuV] | READING(AV)<br>HOR. VER.<br>[dBuV] | ANT<br>TYPE | C.Factor<br>[dBuV] | RESULT(PK)<br>HOR. VER.<br>[dBuV/m] | RESULT(AV)<br>HOR. VER.<br>[dBuV/m] |      | LIMIT<br>[PK]<br>[dBuV/m] | LIMIT<br>[AV]<br>[dBuV/m] | MARGIN(PK)<br>HOR. VER.<br>[dB] | MARGIN(AV)<br>HOR. VER.<br>[dB] |       |  |
|      | 1690          |                                    |                                    |             | HO                 | -7.6                                |                                     |      |                           | 74.0                      | 54.0                            | >27.0                           | >10.0 |  |
|      |               |                                    |                                    |             |                    |                                     |                                     |      |                           |                           |                                 |                                 |       |  |
| CH.  | FREQ<br>[MHz] | READING(QP)<br>HOR. VER.<br>[dBuV] |                                    |             | ANT<br>TYPE        | C.Factor<br>[dBuV]                  | RESULT(QP)<br>HOR. VER.<br>[dBuV/m] |      |                           | LIMIT<br>[QP]<br>[dBuV/m] |                                 | MARGIN(QP)<br>HOR. VER.<br>[dB] |       |  |

# DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 24KE0259-YW-1

Applicant : Orion Electric Co.,Ltd.  
Kind of Equipment : DVD-RW/VCR  
Model No. : DVR-RT500-S  
Serial No. : -  
Power : AC120V/60Hz  
Mode : TV Reception+Rec  
Remarks : 0dBmV Input  
Date : 6/27/2004  
Test Distance : 3 m  
Temperature : 28  
Humidity : 44 %  
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama

| No. | FREQ.<br>[MHz] | ANT<br>TYPE | READING         |                 | ANT<br>FACTOR<br>[dB/m] | AMP<br>GAIN<br>[dB] | CABLE<br>LOSS<br>[dB] | ATTEN.<br>[dB] | RESULT            |                   | LIMITS     |  | MARGIN      |             |
|-----|----------------|-------------|-----------------|-----------------|-------------------------|---------------------|-----------------------|----------------|-------------------|-------------------|------------|--|-------------|-------------|
|     |                |             | HOR<br>[dB μ V] | VER<br>[dB μ V] |                         |                     |                       |                | HOR<br>[dB μ V/m] | VER<br>[dB μ V/m] | [dB μ V/m] |  | HOR<br>[dB] | VER<br>[dB] |
| 1.  | 768.49         | BB          | 30.4            | 36.5            | 21.3                    | 29.9                | 7.5                   | 6.0            | 35.3              | 41.4              | 46.0       |  | 10.7        | 4.6         |

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

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

# DATA OF RADIATION TEST

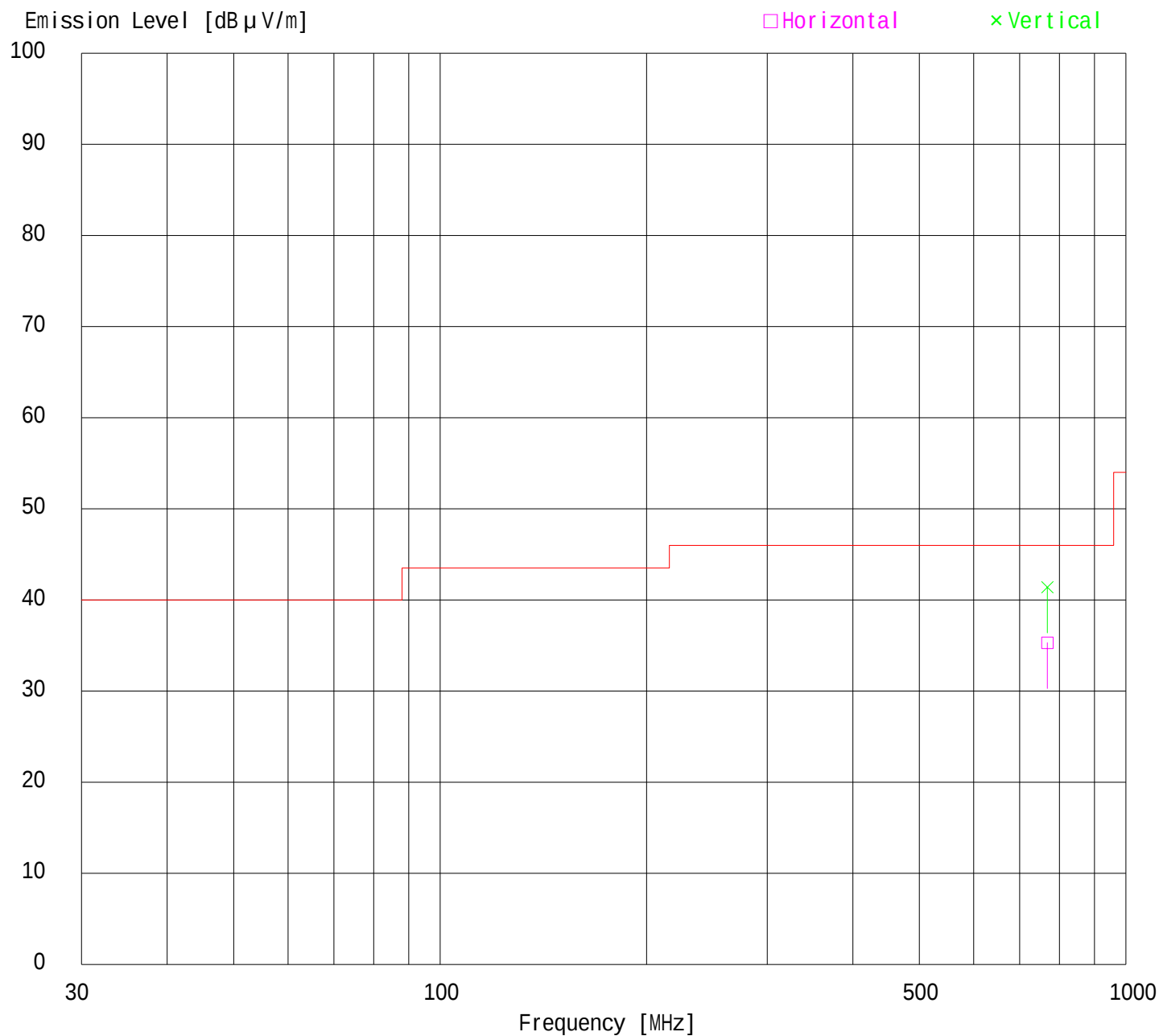
UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 24KE0259-YW-1

Applicant : Orion Electric Co.,Ltd.  
Kind of Equipment : DVD-RW/VCR  
Model No. : DVR-RT500-S  
Serial No. : -  
Power : AC120V/60Hz  
Mode : TV Reception+Rec  
Remarks : 0dBmV Input  
Date : 6/27/2004  
Test Distance : 3 m  
Temperature : 28  
Humidity : 44 %  
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama



# DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 24KE0259-YW-1

Applicant : Orion Electric Co.,Ltd.  
Kind of Equipment : DVD-RW/VCR  
Model No. : DVR-RT500-S  
Serial No. : -  
Power : AC120V/60Hz  
Mode : TV Reception+Rec  
Remarks : 25dBmV Input  
Date : 6/27/2004  
Test Distance : 3 m  
Temperature : 28  
Humidity : 44 %  
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama

| No. | FREQ.<br>[MHz] | ANT<br>TYPE | READING             |                     | ANT<br>FACTOR<br>[dB/m] | AMP<br>GAIN<br>[dB] | CABLE<br>LOSS<br>[dB] | ATTEN.<br>[dB] | RESULT                |                       | LIMITS<br>[dB $\mu$ V/m] | MARGIN      |             |
|-----|----------------|-------------|---------------------|---------------------|-------------------------|---------------------|-----------------------|----------------|-----------------------|-----------------------|--------------------------|-------------|-------------|
|     |                |             | HOR<br>[dB $\mu$ V] | VER<br>[dB $\mu$ V] |                         |                     |                       |                | HOR<br>[dB $\mu$ V/m] | VER<br>[dB $\mu$ V/m] |                          | HOR<br>[dB] | VER<br>[dB] |
| 1.  | 41.42          | BB          | 35.1                | 37.9                | 14.7                    | 29.9                | 1.5                   | 5.9            | 27.3                  | 30.1                  | 40.0                     | 12.7        | 9.9         |
| 2.  | 260.00         | BB          | 25.2                | 24.8                | 17.8                    | 29.9                | 3.9                   | 6.0            | 23.0                  | 22.6                  | 46.0                     | 23.0        | 23.4        |
| 3.  | 384.40         | BB          | 31.5                | 38.5                | 16.0                    | 30.0                | 4.9                   | 6.0            | 28.4                  | 35.4                  | 46.0                     | 17.6        | 10.6        |
| 4.  | 405.02         | BB          | 32.9                | 37.9                | 16.5                    | 30.0                | 5.1                   | 6.0            | 30.5                  | 35.5                  | 46.0                     | 15.5        | 10.5        |
| 5.  | 571.39         | BB          | 26.5                | 29.3                | 18.8                    | 30.0                | 6.3                   | 6.0            | 27.6                  | 30.4                  | 46.0                     | 18.4        | 15.6        |
| 6.  | 768.49         | BB          | 30.4                | 36.5                | 21.3                    | 29.9                | 7.5                   | 6.0            | 35.3                  | 41.4                  | 46.0                     | 10.7        | 4.6         |

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

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

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

# DATA OF RADIATION TEST

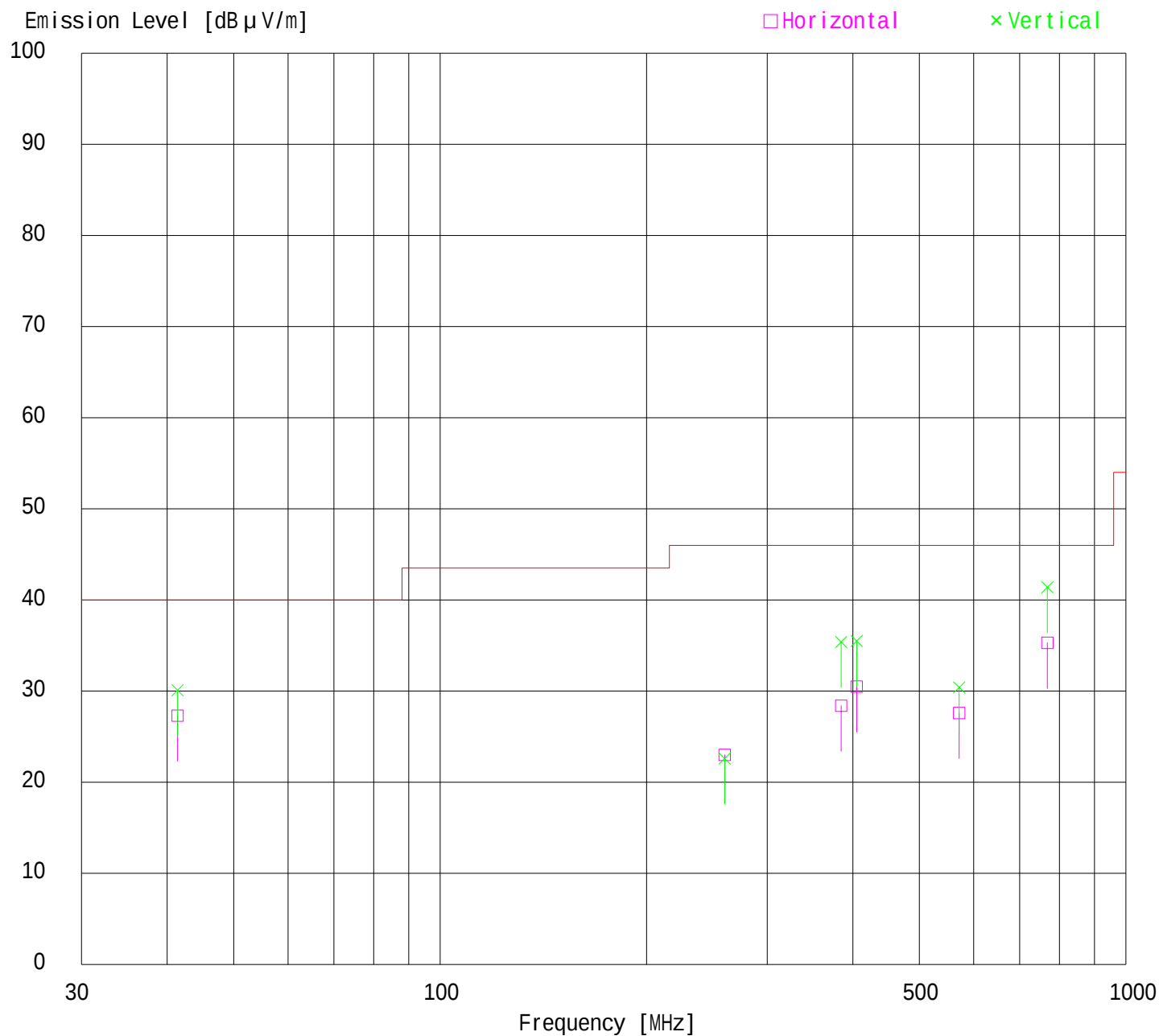
UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 24KE0259-YW-1

Applicant : Orion Electric Co.,Ltd.  
Kind of Equipment : DVD-RW/VCR  
Model No. : DVR-RT500-S  
Serial No. : -  
Power : AC120V/60Hz  
Mode : TV Reception+Rec  
Remarks : 25dBmV Input  
Date : 6/27/2004  
Test Distance : 3 m  
Temperature : 28  
Humidity : 44 %  
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama



# DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 24KE0259-YW-1

Applicant : Orion Electric Co.,Ltd.  
Kind of Equipment : DVD-RW/VCR  
Model No. : DVR-RT500-S  
Serial No. : -  
Power : AC120V/60Hz  
Mode : TV Reception+Rec  
Remarks : 25dBmV Input  
Date : 6/27/2004  
Test Distance : 3 m  
Temperature : 28 Engineer : Tsubasa Takayama  
Humidity : 44 %  
Regulation : FCC Part15B CLASS B(Peak Limit / Upper1GHz)

| No. | FREQ.<br>[MHz] | ANT<br>TYPE | READING         |                 | ANT<br>FACTOR<br>[dB/m] | AMP<br>GAIN<br>[dB] | CABLE<br>LOSS<br>[dB] | ATTEN.<br>[dB] | RESULT            |                   | LIMITS<br>[dB μ V/m] | MARGIN      |             |
|-----|----------------|-------------|-----------------|-----------------|-------------------------|---------------------|-----------------------|----------------|-------------------|-------------------|----------------------|-------------|-------------|
|     |                |             | HOR<br>[dB μ V] | VER<br>[dB μ V] |                         |                     |                       |                | HOR<br>[dB μ V/m] | VER<br>[dB μ V/m] |                      | HOR<br>[dB] | VER<br>[dB] |
| 1.  | 1053.87        | BB          | 52.1            | 54.6            | 25.2                    | 38.7                | 2.7                   | 0.0            | 41.3              | 43.8              | 74.0                 | 32.7        | 30.2        |
| 2.  | 1365.64        | BB          | 70.5            | 71.0            | 26.7                    | 38.4                | 3.1                   | 0.0            | 61.9              | 62.4              | 74.0                 | 12.1        | 11.6        |
| 3.  | 1549.49        | BB          | 53.8            | 51.6            | 27.7                    | 38.0                | 3.3                   | 0.0            | 46.8              | 44.6              | 74.0                 | 27.2        | 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.2 OPEN TEST SITE

Report No. : 24KE0259-YW-1

Applicant : Orion Electric Co.,Ltd.

Kind of Equipment : DVD-RW/VCR

Model No. : DVR-RT500-S

Serial No. : -

Power : AC120V/60Hz

Mode : TV Reception+Rec

Remarks : 25dBmV Input

Date : 6/27/2004

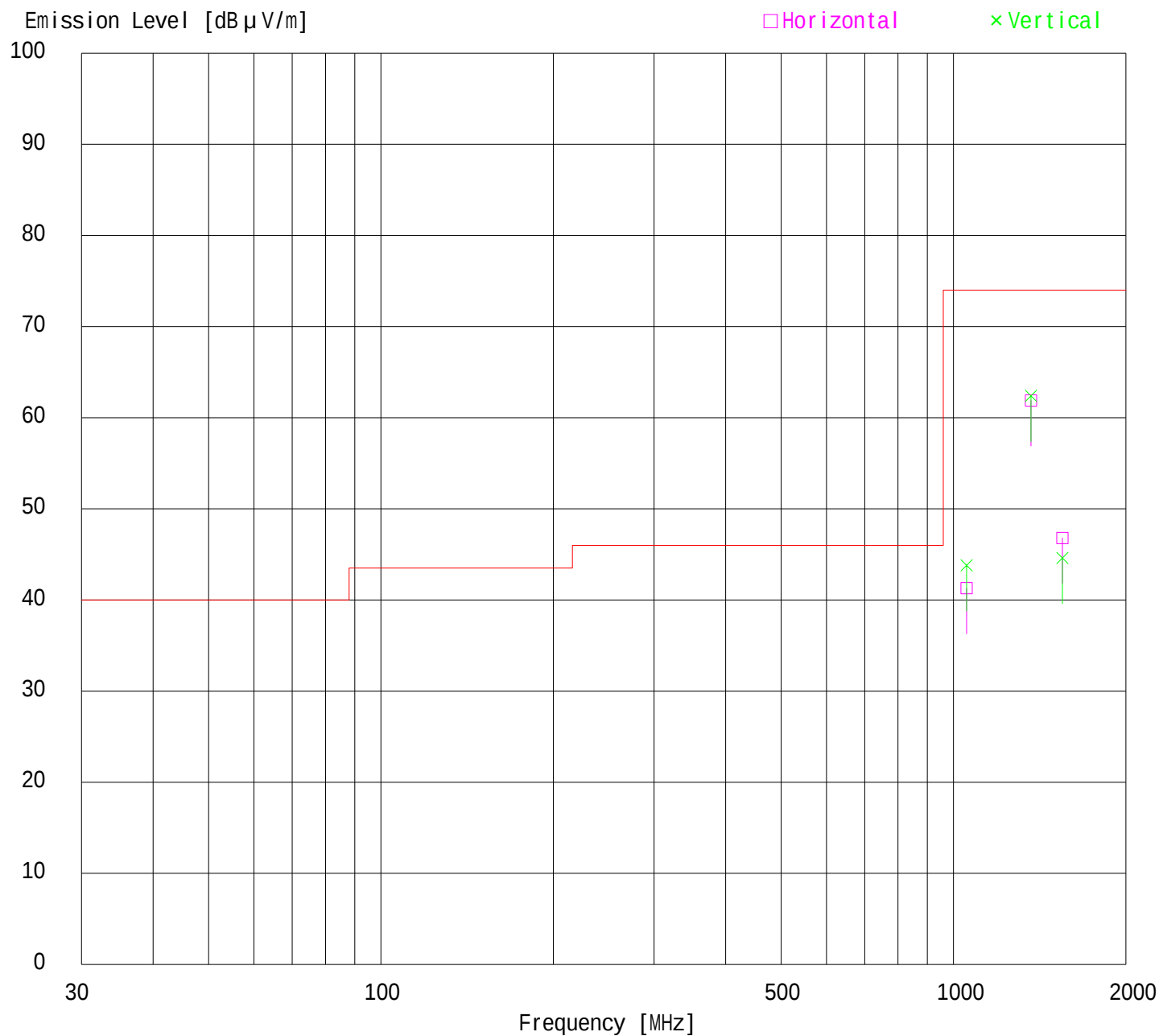
Test Distance : 3 m

Temperature : 28

Engineer : Tsubasa Takayama

Humidity : 44 %

Regulation : FCC Part15B CLASS B(Peak Limit / Upper1GHz)



# DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 24KE0259-YW-1

Applicant : Orion Electric Co.,Ltd.  
Kind of Equipment : DVD-RW/VCR  
Model No. : DVR-RT500-S  
Serial No. : -  
Power : AC120V/60Hz  
Mode : TV Reception+Rec  
Remarks : 25dBmV Input  
Date : 6/27/2004  
Test Distance : 3 m  
Temperature : 28  
Humidity : 44 %  
Regulation : FCC Part15B CLASS B(Average Limit / Upper1GHz)

Engineer : Tsubasa Takayama

| No. | FREQ.<br>[MHz] | ANT<br>TYPE | READING        |                | ANT<br>FACTOR<br>[dB/m] | AMP<br>GAIN<br>[dB] | CABLE<br>LOSS<br>[dB] | ATTEN.<br>[dB] | RESULT           |                  | LIMITS<br>[dB μV/m] | MARGIN      |             |
|-----|----------------|-------------|----------------|----------------|-------------------------|---------------------|-----------------------|----------------|------------------|------------------|---------------------|-------------|-------------|
|     |                |             | HOR<br>[dB μV] | VER<br>[dB μV] |                         |                     |                       |                | HOR<br>[dB μV/m] | VER<br>[dB μV/m] |                     | HOR<br>[dB] | VER<br>[dB] |
| 1.  | 1053.87        | BB          | 42.3           | 46.1           | 25.2                    | 38.7                | 2.7                   | 0.0            | 31.5             | 35.3             | 54.0                | 22.5        | 18.7        |
| 2.  | 1365.64        | BB          | 41.7           | 41.4           | 26.7                    | 38.4                | 3.1                   | 0.0            | 33.1             | 32.8             | 54.0                | 20.9        | 21.2        |
| 3.  | 1549.49        | BB          | 37.1           | 38.4           | 27.7                    | 38.0                | 3.3                   | 0.0            | 30.1             | 31.4             | 54.0                | 23.9        | 22.6        |

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

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

# DATA OF RADIATION TEST

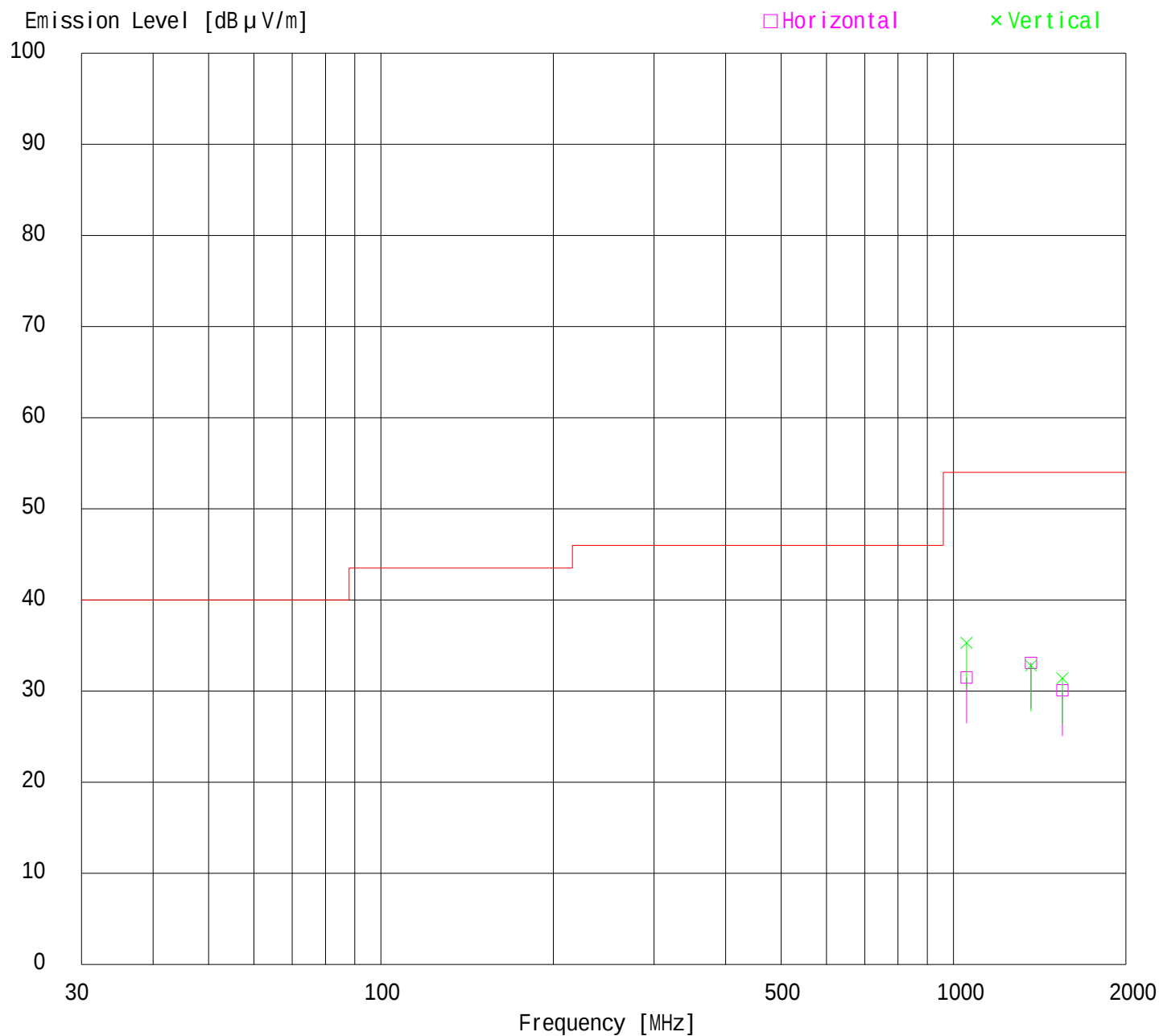
UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 24KE0259-YW-1

Applicant : Orion Electric Co.,Ltd.  
Kind of Equipment : DVD-RW/VCR  
Model No. : DVR-RT500-S  
Serial No. : -  
Power : AC120V/60Hz  
Mode : TV Reception+Rec  
Remarks : 25dBmV Input  
Date : 6/27/2004  
Test Distance : 3 m  
Temperature : 28  
Humidity : 44 %  
Regulation : FCC Part15B CLASS B(Average Limit / Upper1GHz)

Engineer : Tsubasa Takayama



# DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 24KE0259-YW-1

Applicant : Orion Electric Co.,Ltd.  
Kind of Equipment : DVD-RW/VCR  
Model No. : DVR-RT500-S  
Serial No. : -  
Power : AC120V/60Hz  
Mode : AV1 Input+Rec  
Remarks : 1Vp-p Input  
Date : 6/27/2004  
Test Distance : 3 m  
Temperature : 28  
Humidity : 44 %  
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama

| No. | FREQ.<br>[MHz] | ANT<br>TYPE | READING         |                 | ANT<br>FACTOR | AMP<br>GAIN | CABLE<br>LOSS | ATTEN.<br>[dB] | RESULT            |                   | LIMITS<br>[dB μ V/m] | MARGIN      |             |
|-----|----------------|-------------|-----------------|-----------------|---------------|-------------|---------------|----------------|-------------------|-------------------|----------------------|-------------|-------------|
|     |                |             | HOR<br>[dB μ V] | VER<br>[dB μ V] |               |             |               |                | HOR<br>[dB μ V/m] | VER<br>[dB μ V/m] |                      | HOR<br>[dB] | VER<br>[dB] |
| 1.  | 768.03         | BB          | 31.0            | 34.9            | 21.3          | 29.9        | 7.5           | 6.0            | 35.9              | 39.8              | 46.0                 | 10.1        | 6.2         |

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

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

# DATA OF RADIATION TEST

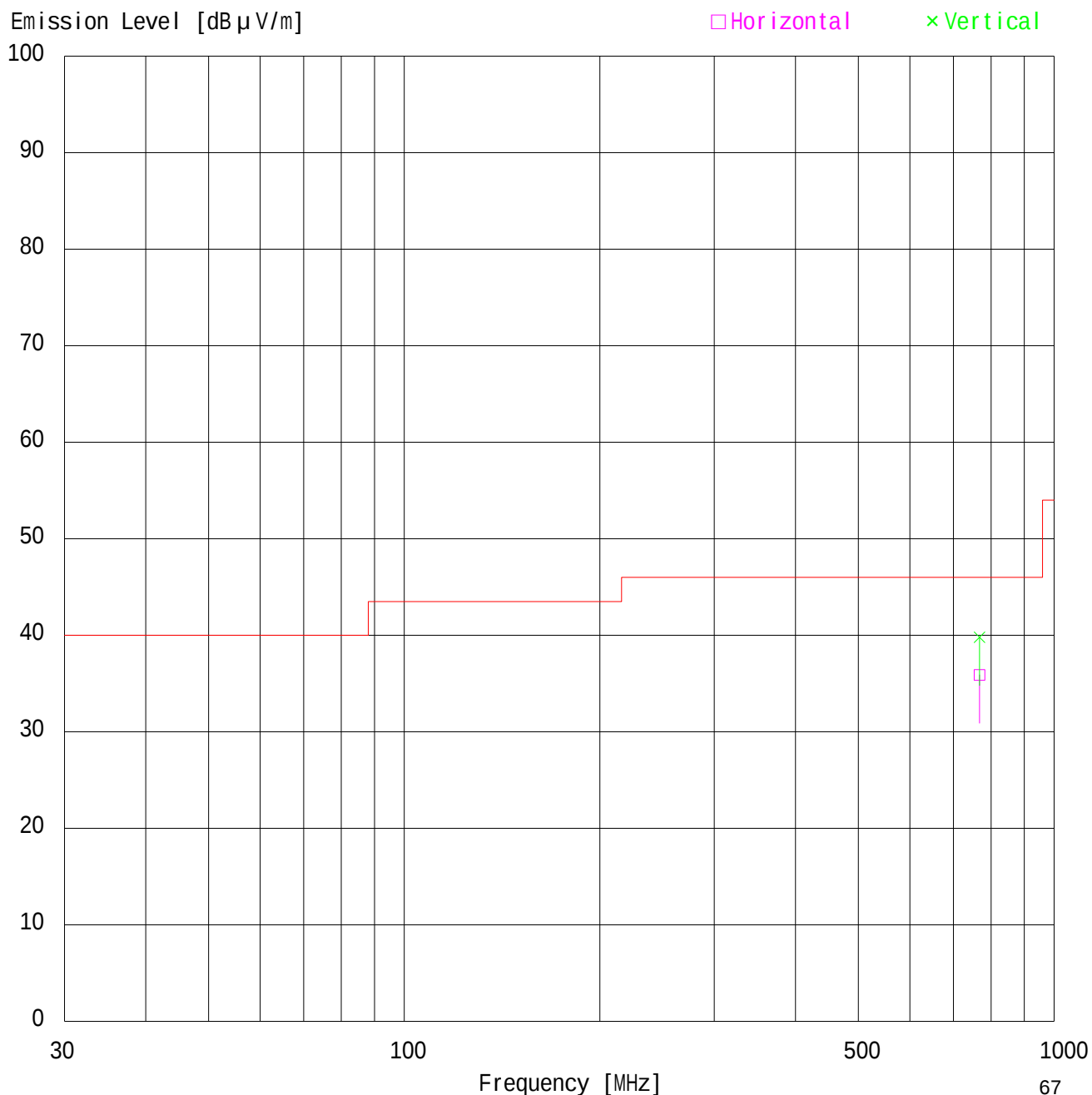
UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 24KE0259-YW-1

Applicant : Orion Electric Co.,Ltd.  
Kind of Equipment : DVD-RW/VCR  
Model No. : DVR-RT500-S  
Serial No. : -  
Power : AC120V/60Hz  
Mode : AV1 Input+Rec  
Remarks : 1Vp-p Input  
Date : 6/27/2004  
Test Distance : 3 m  
Temperature : 28  
Humidity : 44 %  
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama



# DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 24KE0259-YW-1

Applicant : Orion Electric Co.,Ltd.  
Kind of Equipment : DVD-RW/VCR  
Model No. : DVR-RT500-S  
Serial No. : -  
Power : AC120V/60Hz  
Mode : AV1 Input+Rec  
Remarks : 5Vp-p Input  
Date : 6/27/2004  
Test Distance : 3 m  
Temperature : 28  
Humidity : 44 %  
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama

| No. | FREQ.<br>[MHz] | ANT<br>TYPE | READING             |                     | ANT<br>FACTOR<br>[dB/m] | AMP<br>GAIN<br>[dB] | CABLE<br>LOSS<br>[dB] | ATTEN.<br>[dB] | RESULT                |                       | LIMITS<br>[dB $\mu$ V/m] | MARGIN      |             |
|-----|----------------|-------------|---------------------|---------------------|-------------------------|---------------------|-----------------------|----------------|-----------------------|-----------------------|--------------------------|-------------|-------------|
|     |                |             | HOR<br>[dB $\mu$ V] | VER<br>[dB $\mu$ V] |                         |                     |                       |                | HOR<br>[dB $\mu$ V/m] | VER<br>[dB $\mu$ V/m] |                          | HOR<br>[dB] | VER<br>[dB] |
| 1.  | 41.43          | BB          | 36.1                | 37.1                | 14.7                    | 29.9                | 1.5                   | 5.9            | 28.3                  | 29.3                  | 40.0                     | 11.7        | 10.7        |
| 2.  | 259.98         | BB          | 27.1                | 25.3                | 17.8                    | 29.9                | 3.9                   | 6.0            | 24.9                  | 23.1                  | 46.0                     | 21.1        | 22.9        |
| 3.  | 384.35         | BB          | 32.5                | 39.1                | 16.0                    | 30.0                | 4.9                   | 6.0            | 29.4                  | 36.0                  | 46.0                     | 16.6        | 10.0        |
| 4.  | 405.01         | BB          | 33.6                | 37.5                | 16.5                    | 30.0                | 5.1                   | 6.0            | 31.2                  | 35.1                  | 46.0                     | 14.8        | 10.9        |
| 5.  | 571.40         | BB          | 26.6                | 30.2                | 18.8                    | 30.0                | 6.3                   | 6.0            | 27.7                  | 31.3                  | 46.0                     | 18.3        | 14.7        |
| 6.  | 768.03         | BB          | 31.0                | 34.9                | 21.3                    | 29.9                | 7.5                   | 6.0            | 35.9                  | 39.8                  | 46.0                     | 10.1        | 6.2         |

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

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

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

# DATA OF RADIATION TEST

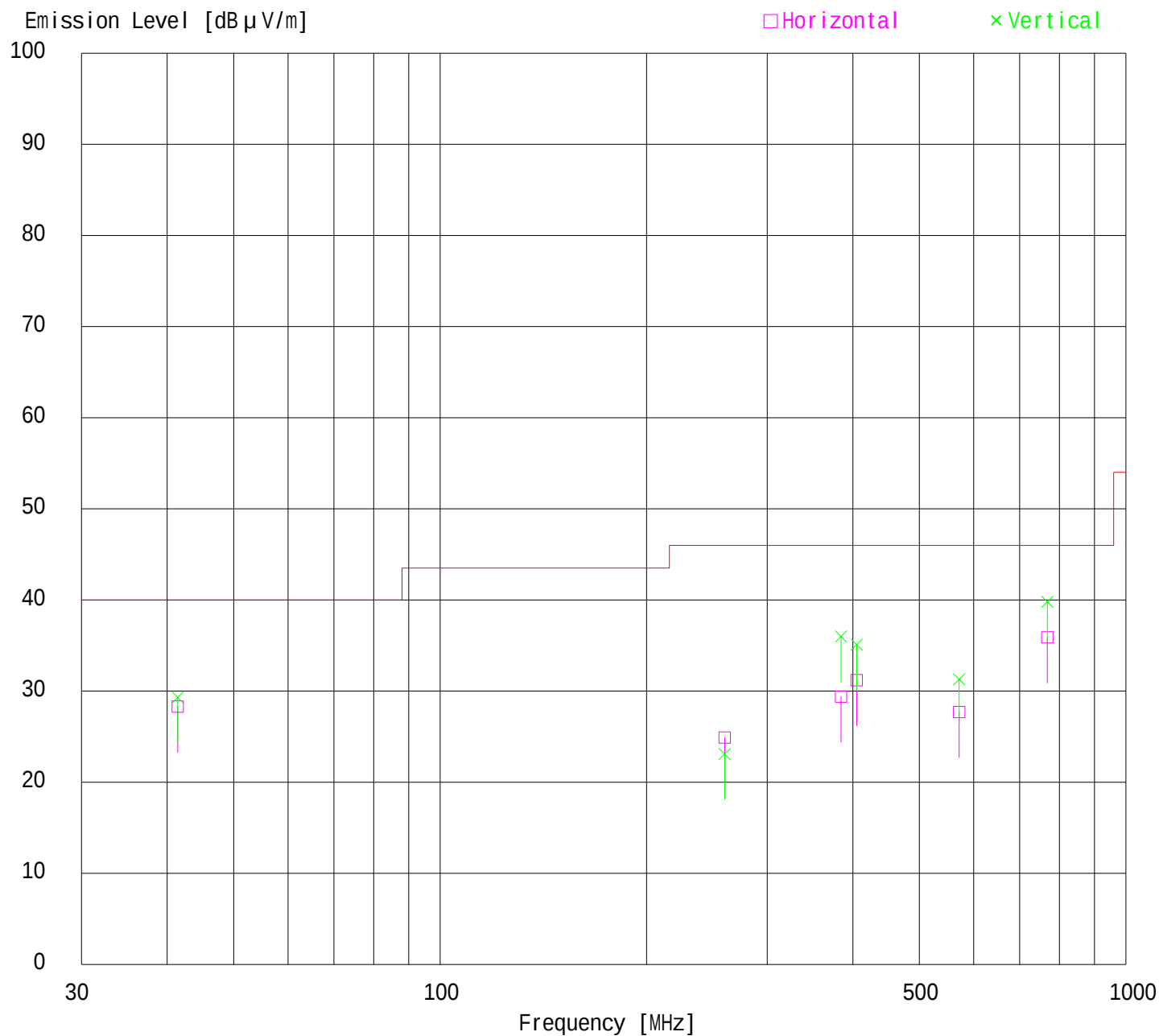
UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 24KE0259-YW-1

Applicant : Orion Electric Co.,Ltd.  
Kind of Equipment : DVD-RW/VCR  
Model No. : DVR-RT500-S  
Serial No. : -  
Power : AC120V/60Hz  
Mode : AV1 Input+Rec  
Remarks : 5Vp-p Input  
Date : 6/27/2004  
Test Distance : 3 m  
Temperature : 28  
Humidity : 44 %  
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama



# DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 24KE0259-YW-1

Applicant : Orion Electric Co.,Ltd.  
Kind of Equipment : DVD-RW/VCR  
Model No. : DVR-RT500-S  
Serial No. : -  
Power : AC120V/60Hz  
Mode : AV1 Input+Rec  
Remarks : 5Vp-p Input  
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Test Distance : 3 m  
Temperature : 28  
Humidity : 44 %  
Regulation : FCC Part15B CLASS B(Peak Limit / Upper1GHz)

Engineer : Tsubasa Takayama

| No. | FREQ.<br>[MHz] | ANT<br>TYPE | READING         |                 | ANT<br>FACTOR<br>[dB/m] | AMP<br>GAIN<br>[dB] | CABLE<br>LOSS<br>[dB] | ATTEN.<br>[dB] | RESULT            |                   | LIMITS<br>[dB μ V/m] | MARGIN      |             |
|-----|----------------|-------------|-----------------|-----------------|-------------------------|---------------------|-----------------------|----------------|-------------------|-------------------|----------------------|-------------|-------------|
|     |                |             | HOR<br>[dB μ V] | VER<br>[dB μ V] |                         |                     |                       |                | HOR<br>[dB μ V/m] | VER<br>[dB μ V/m] |                      | HOR<br>[dB] | VER<br>[dB] |
| 1.  | 1053.75        | BB          | 51.6            | 56.9            | 25.2                    | 38.7                | 2.7                   | 0.0            | 40.8              | 46.1              | 74.0                 | 33.2        | 27.9        |
| 2.  | 1366.30        | BB          | 70.6            | 71.7            | 26.7                    | 38.4                | 3.1                   | 0.0            | 62.0              | 63.1              | 74.0                 | 12.0        | 10.9        |
| 3.  | 1549.77        | BB          | 53.9            | 52.7            | 27.7                    | 38.0                | 3.3                   | 0.0            | 46.9              | 45.7              | 74.0                 | 27.1        | 28.3        |

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

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

# DATA OF RADIATION TEST

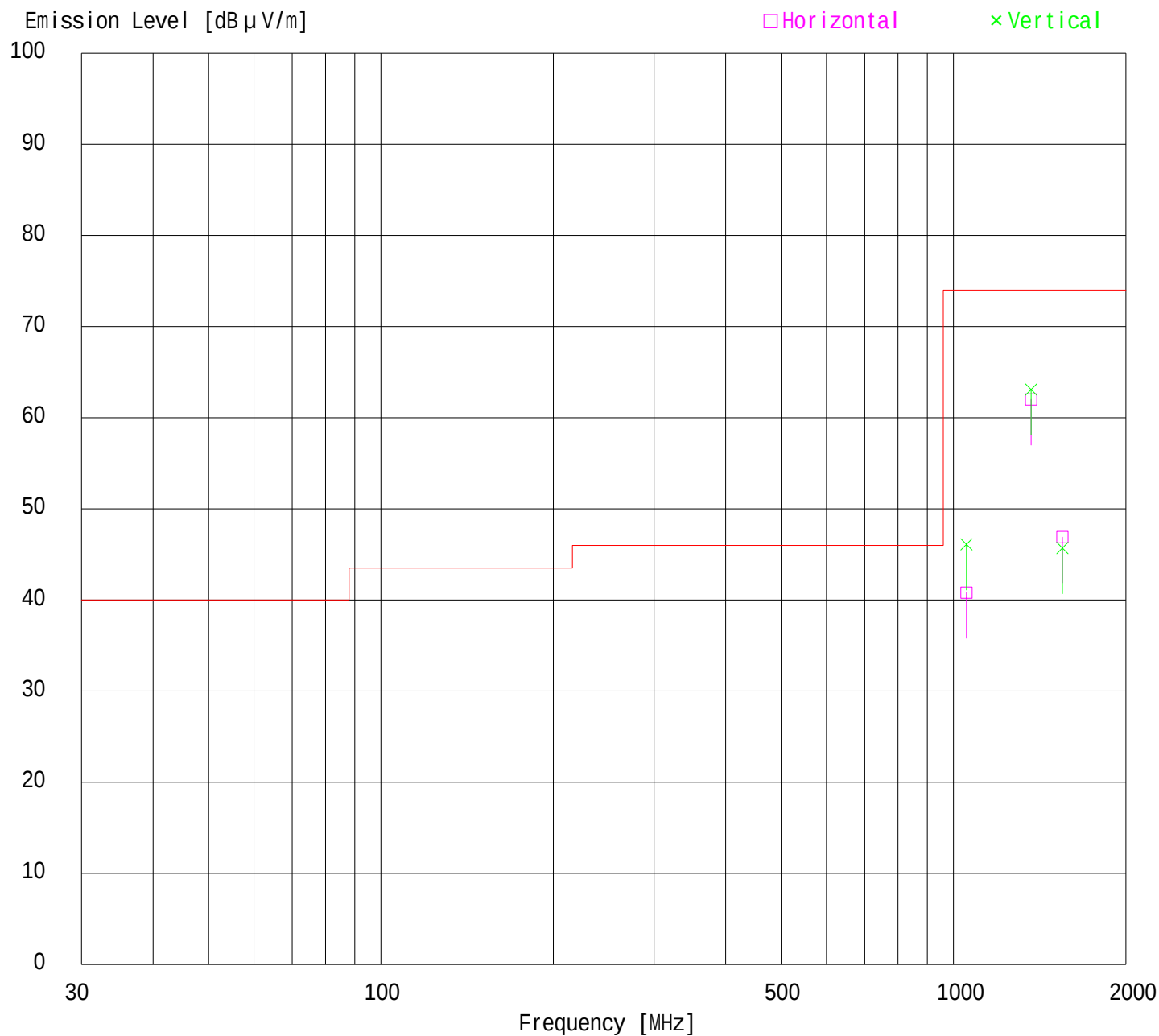
UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 24KE0259-YW-1

Applicant : Orion Electric Co.,Ltd.  
Kind of Equipment : DVD-RW/VCR  
Model No. : DVR-RT500-S  
Serial No. : -  
Power : AC120V/60Hz  
Mode : AV1 Input+Rec  
Remarks : 5Vp-p Input  
Date : 6/27/2004  
Test Distance : 3 m  
Temperature : 28  
Humidity : 44 %  
Regulation : FCC Part15B CLASS B(Peak Limit / Upper1GHz)

Engineer : Tsubasa Takayama



# DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 24KE0259-YW-1

Applicant : Orion Electric Co.,Ltd.  
Kind of Equipment : DVD-RW/VCR  
Model No. : DVR-RT500-S  
Serial No. : -  
Power : AC120V/60Hz  
Mode : AV1 Input+Rec  
Remarks : 5Vp-p Input  
Date : 6/27/2004  
Test Distance : 3 m  
Temperature : 28  
Humidity : 44 %  
Regulation : FCC Part15B CLASS B(Average Limit / Upper1GHz)

Engineer : Tsubasa Takayama

| No. | FREQ.<br>[MHz] | ANT<br>TYPE | READING        |                | ANT<br>FACTOR<br>[dB/m] | AMP<br>GAIN<br>[dB] | CABLE<br>LOSS<br>[dB] | ATTEN.<br>[dB] | RESULT           |                  | LIMITS<br>[dB μV/m] | MARGIN      |             |
|-----|----------------|-------------|----------------|----------------|-------------------------|---------------------|-----------------------|----------------|------------------|------------------|---------------------|-------------|-------------|
|     |                |             | HOR<br>[dB μV] | VER<br>[dB μV] |                         |                     |                       |                | HOR<br>[dB μV/m] | VER<br>[dB μV/m] |                     | HOR<br>[dB] | VER<br>[dB] |
| 1.  | 1053.75        | BB          | 42.6           | 45.3           | 25.2                    | 38.7                | 2.7                   | 0.0            | 31.8             | 34.5             | 54.0                | 22.2        | 19.5        |
| 2.  | 1366.30        | BB          | 41.6           | 41.3           | 26.7                    | 38.4                | 3.1                   | 0.0            | 33.0             | 32.7             | 54.0                | 21.0        | 21.3        |
| 3.  | 1549.77        | BB          | 37.0           | 36.8           | 27.7                    | 38.0                | 3.3                   | 0.0            | 30.0             | 29.8             | 54.0                | 24.0        | 24.2        |

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

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

# DATA OF RADIATION TEST

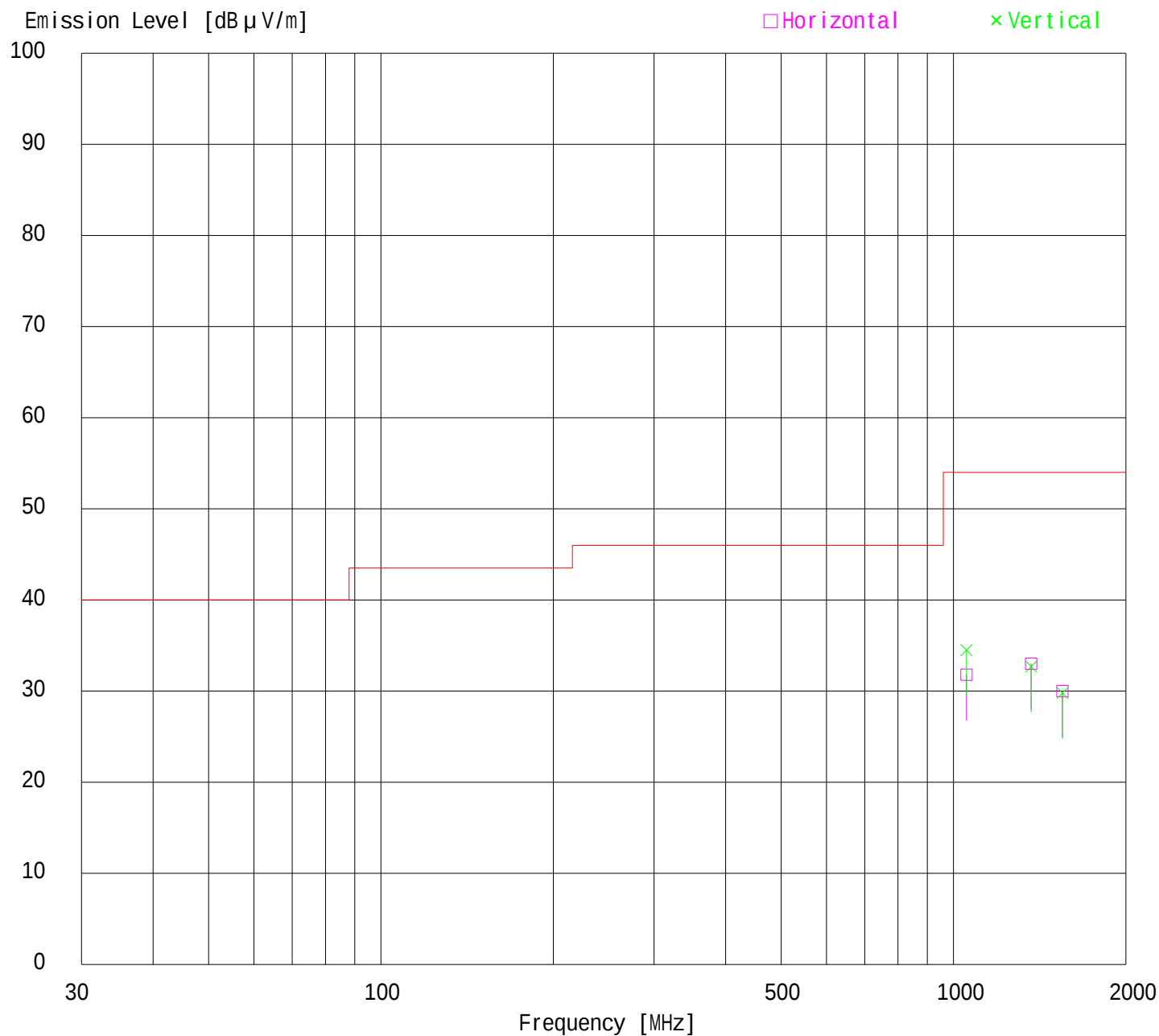
UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 24KE0259-YW-1

Applicant : Orion Electric Co.,Ltd.  
Kind of Equipment : DVD-RW/VCR  
Model No. : DVR-RT500-S  
Serial No. : -  
Power : AC120V/60Hz  
Mode : AV1 Input+Rec  
Remarks : 5Vp-p Input  
Date : 6/27/2004  
Test Distance : 3 m  
Temperature : 28  
Humidity : 44 %  
Regulation : FCC Part15B CLASS B(Average Limit / Upper1GHz)

Engineer : Tsubasa Takayama



# DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 24KE0259-YW-1

Applicant : Orion Electric Co.,Ltd.  
Kind of Equipment : DVD-RW/VCR  
Model No. : DVR-RT500-S  
Serial No. : -  
Power : AC120V/60Hz  
Mode : AV2 Input+ Rec  
Remarks : 1Vp-p Input  
Date : 6/27/2004  
Test Distance : 3 m  
Temperature : 28  
Humidity : 44 %  
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama

| No. | FREQ.<br>[MHz] | ANT<br>TYPE | READING        |                | ANT<br>FACTOR<br>[dB/m] | AMP<br>GAIN<br>[dB] | CABLE<br>LOSS<br>[dB] | ATTEN.<br>[dB] | RESULT           |                  | LIMITS<br>[dB μV/m] | MARGIN      |             |
|-----|----------------|-------------|----------------|----------------|-------------------------|---------------------|-----------------------|----------------|------------------|------------------|---------------------|-------------|-------------|
|     |                |             | HOR<br>[dB μV] | VER<br>[dB μV] |                         |                     |                       |                | HOR<br>[dB μV/m] | VER<br>[dB μV/m] |                     | HOR<br>[dB] | VER<br>[dB] |
| 1.  | 769.25         | BB          | 31.0           | 32.7           | 21.3                    | 29.9                | 7.5                   | 6.0            | 35.9             | 37.6             | 46.0                | 10.1        | 8.4         |

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

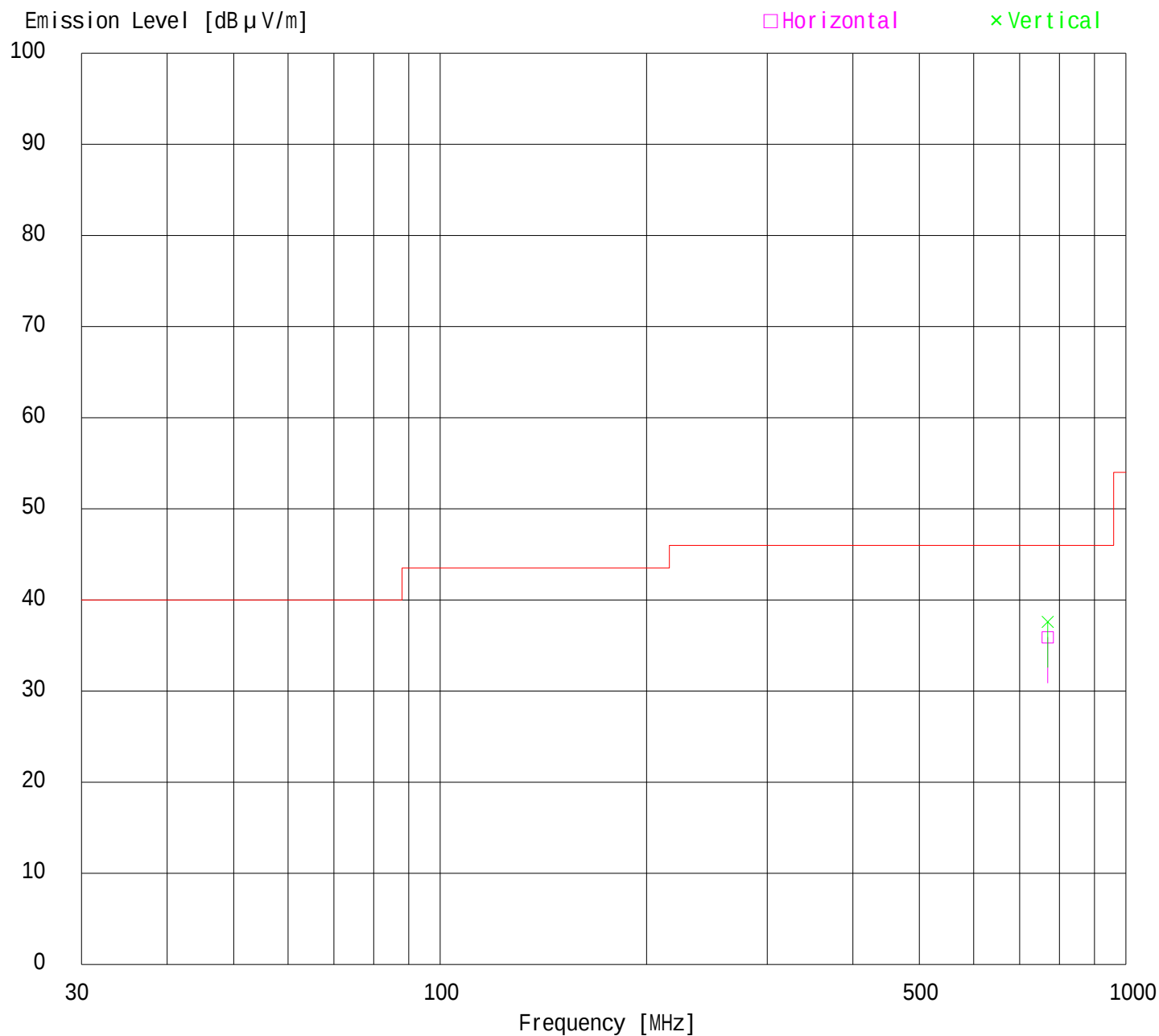
UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 24KE0259-YW-1

Applicant : Orion Electric Co.,Ltd.  
Kind of Equipment : DVD-RW/VCR  
Model No. : DVR-RT500-S  
Serial No. : -  
Power : AC120V/60Hz  
Mode : AV2 Input+ Rec  
Remarks : 1Vp-p Input  
Date : 6/27/2004  
Test Distance : 3 m  
Temperature : 28  
Humidity : 44 %  
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama



# DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 24KE0259-YW-1

Applicant : Orion Electric Co.,Ltd.  
Kind of Equipment : DVD-RW/VCR  
Model No. : DVR-RT500-S  
Serial No. : -  
Power : AC120V/60Hz  
Mode : AV2 Input+ Rec  
Remarks : 5Vp-p Input  
Date : 6/27/2004  
Test Distance : 3 m  
Temperature : 28  
Humidity : 44 %  
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama

| No. | FREQ.<br>[MHz] | ANT<br>TYPE | READING             |                     | ANT<br>FACTOR<br>[dB/m] | AMP<br>GAIN<br>[dB] | CABLE<br>LOSS<br>[dB] | ATTEN.<br>[dB] | RESULT                |                       | LIMITS<br>[dB $\mu$ V/m] | MARGIN      |             |
|-----|----------------|-------------|---------------------|---------------------|-------------------------|---------------------|-----------------------|----------------|-----------------------|-----------------------|--------------------------|-------------|-------------|
|     |                |             | HOR<br>[dB $\mu$ V] | VER<br>[dB $\mu$ V] |                         |                     |                       |                | HOR<br>[dB $\mu$ V/m] | VER<br>[dB $\mu$ V/m] |                          | HOR<br>[dB] | VER<br>[dB] |
| 1.  | 41.50          | BB          | 37.3                | 38.5                | 14.7                    | 29.9                | 1.5                   | 5.9            | 29.5                  | 30.7                  | 40.0                     | 10.5        | 9.3         |
| 2.  | 259.99         | BB          | 27.7                | 26.4                | 17.8                    | 29.9                | 3.9                   | 6.0            | 25.5                  | 24.2                  | 46.0                     | 20.5        | 21.8        |
| 3.  | 384.32         | BB          | 31.1                | 38.7                | 16.0                    | 30.0                | 4.9                   | 6.0            | 28.0                  | 35.6                  | 46.0                     | 18.0        | 10.4        |
| 4.  | 405.02         | BB          | 33.5                | 37.1                | 16.5                    | 30.0                | 5.1                   | 6.0            | 31.1                  | 34.7                  | 46.0                     | 14.9        | 11.3        |
| 5.  | 571.40         | BB          | 26.2                | 29.9                | 18.8                    | 30.0                | 6.3                   | 6.0            | 27.3                  | 31.0                  | 46.0                     | 18.7        | 15.0        |
| 6.  | 769.25         | BB          | 31.0                | 32.7                | 21.3                    | 29.9                | 7.5                   | 6.0            | 35.9                  | 37.6                  | 46.0                     | 10.1        | 8.4         |

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

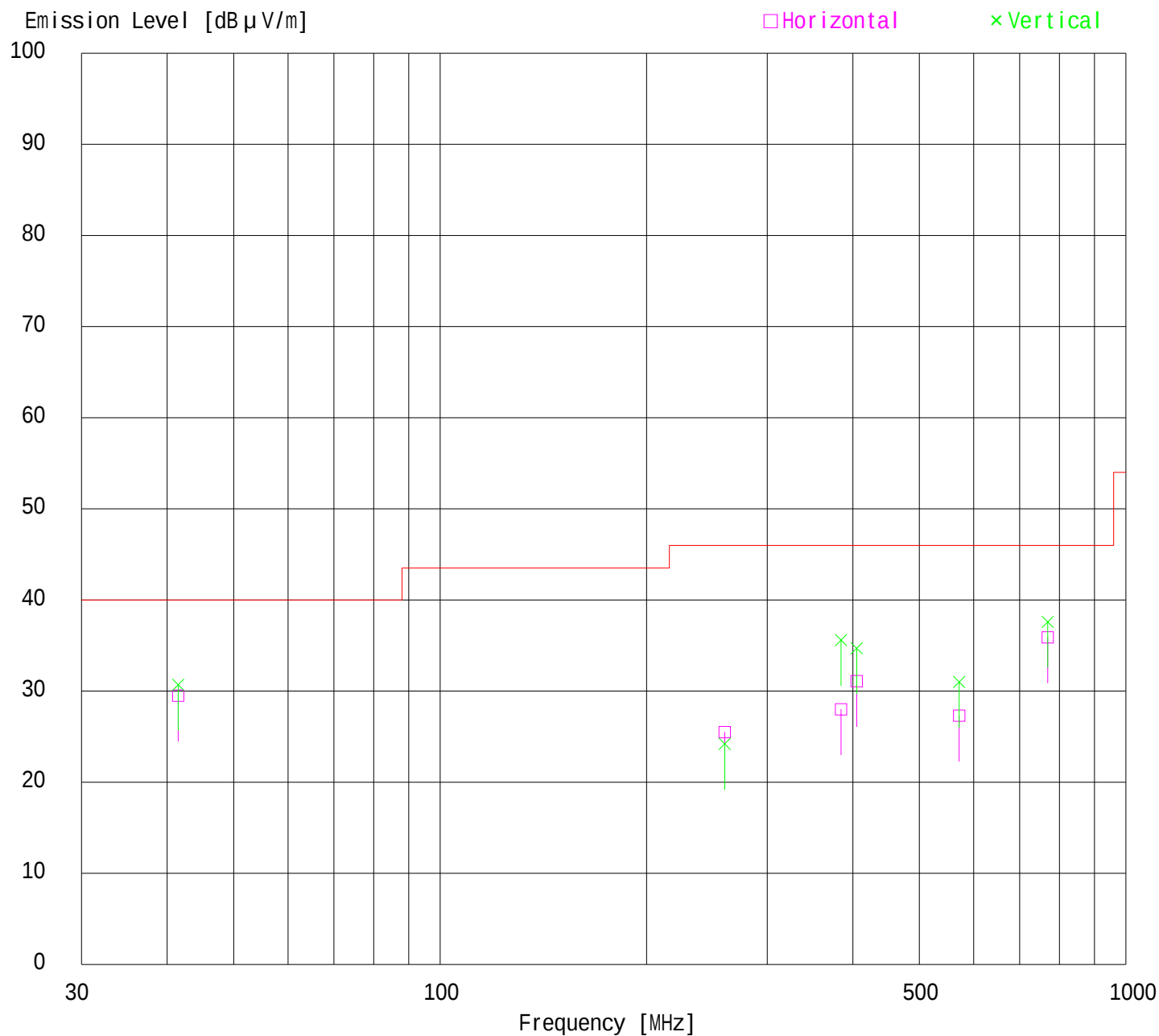
UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 24KE0259-YW-1

Applicant : Orion Electric Co.,Ltd.  
Kind of Equipment : DVD-RW/VCR  
Model No. : DVR-RT500-S  
Serial No. : -  
Power : AC120V/60Hz  
Mode : AV2 Input+ Rec  
Remarks : 5Vp-p Input  
Date : 6/27/2004  
Test Distance : 3 m  
Temperature : 28  
Humidity : 44 %  
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama



# DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 24KE0259-YW-1

Applicant : Orion Electric Co.,Ltd.  
Kind of Equipment : DVD-RW/VCR  
Model No. : DVR-RT500-S  
Serial No. : -  
Power : AC120V/60Hz  
Mode : AV2 Input+ Rec  
Remarks : 5Vp-p Input  
Date : 6/27/2004  
Test Distance : 3 m  
Temperature : 28 Engineer : Tsubasa Takayama  
Humidity : 44 %  
Regulation : FCC Part15B CLASS B(Peak Limit / Upper1GHz)

| No. | FREQ.<br>[MHz] | ANT<br>TYPE | READING         |                 | ANT<br>FACTOR<br>[dB/m] | AMP<br>GAIN<br>[dB] | CABLE<br>LOSS<br>[dB] | ATTEN.<br>[dB] | RESULT            |                   | LIMITS<br>[dB μ V/m] | MARGIN      |             |
|-----|----------------|-------------|-----------------|-----------------|-------------------------|---------------------|-----------------------|----------------|-------------------|-------------------|----------------------|-------------|-------------|
|     |                |             | HOR<br>[dB μ V] | VER<br>[dB μ V] |                         |                     |                       |                | HOR<br>[dB μ V/m] | VER<br>[dB μ V/m] |                      | HOR<br>[dB] | VER<br>[dB] |
| 1.  | 1054.01        | BB          | 53.7            | 56.7            | 25.2                    | 38.7                | 2.7                   | 0.0            | 42.9              | 45.9              | 74.0                 | 31.1        | 28.1        |
| 2.  | 1366.30        | BB          | 71.2            | 70.6            | 26.7                    | 38.4                | 3.1                   | 0.0            | 62.6              | 62.0              | 74.0                 | 11.4        | 12.0        |
| 3.  | 1548.00        | BB          | 52.4            | 53.1            | 27.7                    | 38.0                | 3.3                   | 0.0            | 45.4              | 46.1              | 74.0                 | 28.6        | 27.9        |

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.2 OPEN TEST SITE

Report No. : 24KE0259-YW-1

Applicant : Orion Electric Co.,Ltd.

Kind of Equipment : DVD-RW/VCR

Model No. : DVR-RT500-S

Serial No. : -

Power : AC120V/60Hz

Mode : AV2 Input+ Rec

Remarks : 5Vp-p Input

Date : 6/27/2004

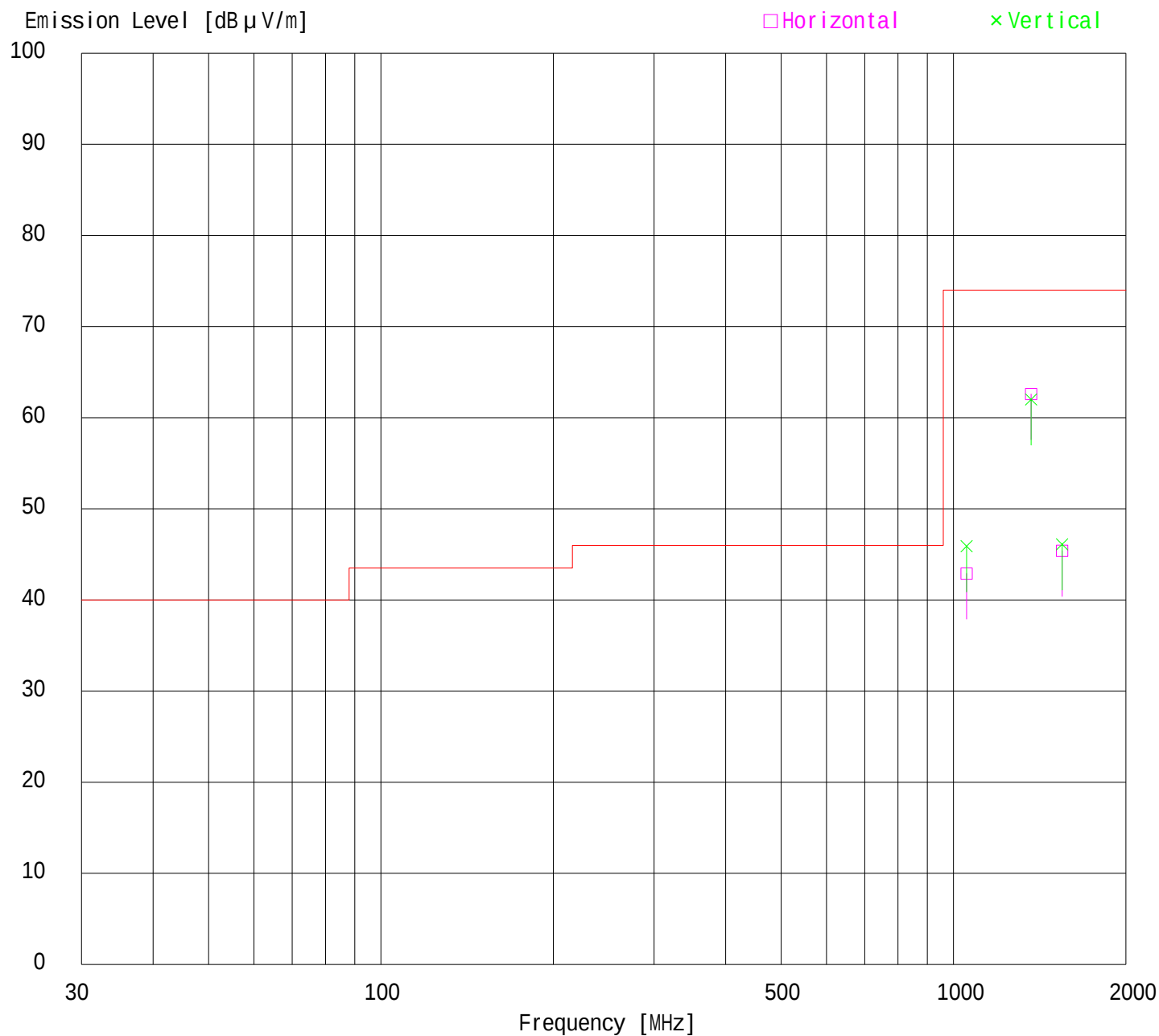
Test Distance : 3 m

Temperature : 28

Engineer : Tsubasa Takayama

Humidity : 44 %

Regulation : FCC Part15B CLASS B(Peak Limit / Upper1GHz)



# DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 24KE0259-YW-1

Applicant : Orion Electric Co.,Ltd.  
Kind of Equipment : DVD-RW/VCR  
Model No. : DVR-RT500-S  
Serial No. : -  
Power : AC120V/60Hz  
Mode : AV2 Input+ Rec  
Remarks : 5Vp-p Input  
Date : 6/27/2004  
Test Distance : 3 m  
Temperature : 28 Engineer : Tsubasa Takayama  
Humidity : 44 %  
Regulation : FCC Part15B CLASS B(Average Limit / Upper1GHz)

| No. | FREQ.<br>[MHz] | ANT<br>TYPE | READING         |                 | ANT<br>FACTOR<br>[dB/m] | AMP<br>GAIN<br>[dB] | CABLE<br>LOSS<br>[dB] | ATTEN.<br>[dB] | RESULT            |                   | LIMITS<br>[dB μ V/m] | MARGIN      |             |
|-----|----------------|-------------|-----------------|-----------------|-------------------------|---------------------|-----------------------|----------------|-------------------|-------------------|----------------------|-------------|-------------|
|     |                |             | HOR<br>[dB μ V] | VER<br>[dB μ V] |                         |                     |                       |                | HOR<br>[dB μ V/m] | VER<br>[dB μ V/m] |                      | HOR<br>[dB] | VER<br>[dB] |
| 1.  | 1054.01        | BB          | 43.6            | 47.1            | 25.2                    | 38.7                | 2.7                   | 0.0            | 32.8              | 36.3              | 54.0                 | 21.2        | 17.7        |
| 2.  | 1366.30        | BB          | 42.7            | 42.2            | 26.7                    | 38.4                | 3.1                   | 0.0            | 34.1              | 33.6              | 54.0                 | 19.9        | 20.4        |
| 3.  | 1548.00        | BB          | 38.9            | 37.7            | 27.7                    | 38.0                | 3.3                   | 0.0            | 31.9              | 30.7              | 54.0                 | 22.1        | 23.3        |

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

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

# DATA OF RADIATION TEST

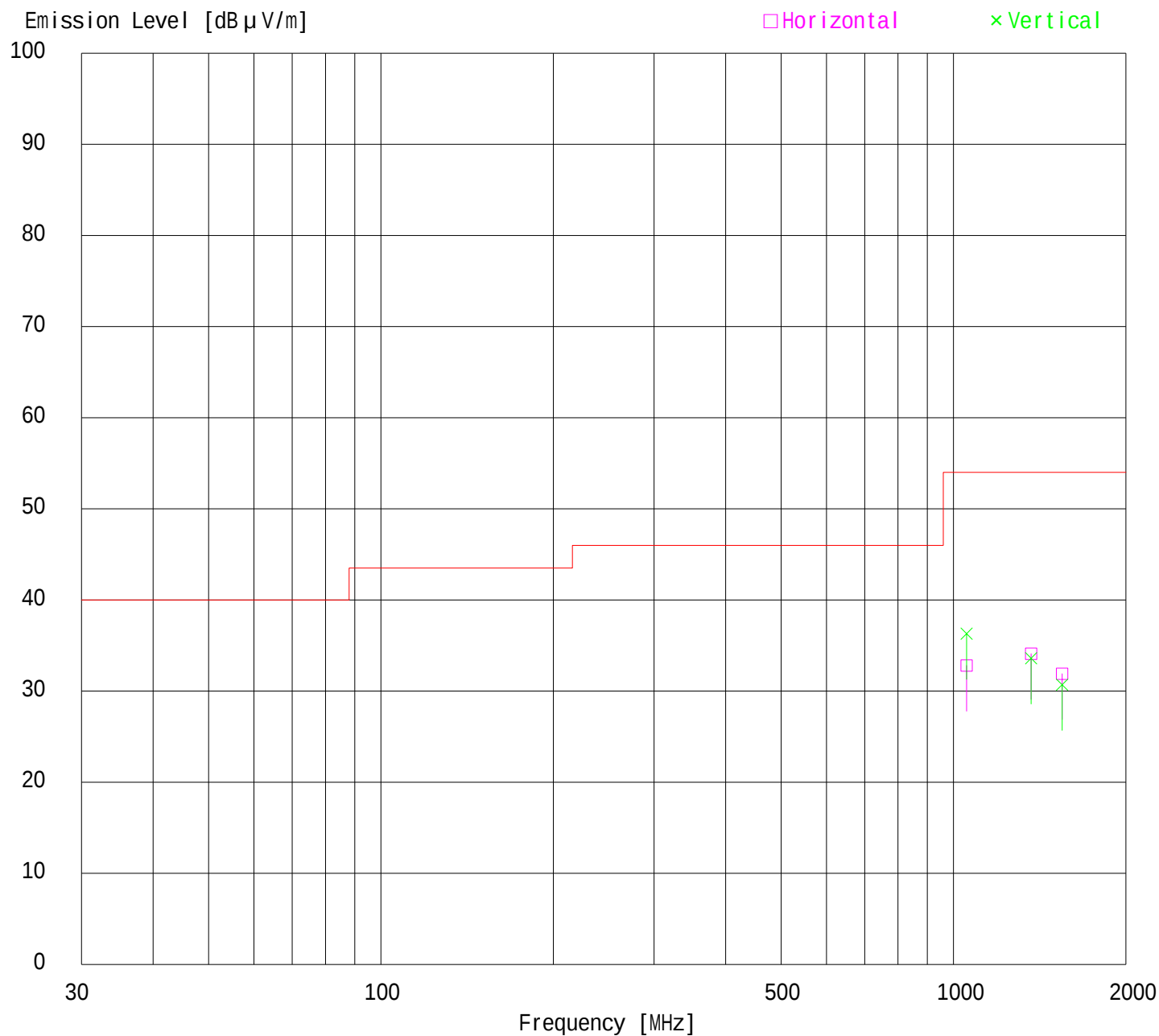
UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 24KE0259-YW-1

Applicant : Orion Electric Co.,Ltd.  
Kind of Equipment : DVD-RW/VCR  
Model No. : DVR-RT500-S  
Serial No. : -  
Power : AC120V/60Hz  
Mode : AV2 Input+ Rec  
Remarks : 5Vp-p Input  
Date : 6/27/2004  
Test Distance : 3 m  
Temperature : 28  
Humidity : 44 %  
Regulation : FCC Part15B CLASS B(Average Limit / Upper1GHz)

Engineer : Tsubasa Takayama



# DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No.: 24KE0259-YW-1

Applicant : Orion Electric Co.,Ltd.  
Kind of Equipment : DVD-RW/VCR  
Model No. : DVR-RT500-S  
Serial No. : -  
Power : AC120V/60Hz  
Mode : VCR Playback+Rec  
Remarks : -  
Date : 6/27/2004  
Test Distance : 3 m  
Temperature : 28  
Humidity : 44 %  
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama

| No. | FREQ.<br>[MHz] | ANT<br>TYPE | READING             |                     | ANT<br>FACTOR<br>[dB/m] | AMP<br>GAIN<br>[dB] | CABLE<br>LOSS<br>[dB] | ATTEN.<br>[dB] | RESULT                |                       | LIMITS<br>[dB $\mu$ V/m] | MARGIN      |             |
|-----|----------------|-------------|---------------------|---------------------|-------------------------|---------------------|-----------------------|----------------|-----------------------|-----------------------|--------------------------|-------------|-------------|
|     |                |             | HOR<br>[dB $\mu$ V] | VER<br>[dB $\mu$ V] |                         |                     |                       |                | HOR<br>[dB $\mu$ V/m] | VER<br>[dB $\mu$ V/m] |                          | HOR<br>[dB] | VER<br>[dB] |
| 1.  | 41.43          | BB          | 37.8                | 38.6                | 14.7                    | 29.9                | 1.5                   | 5.9            | 30.0                  | 30.8                  | 40.0                     | 10.0        | 9.2         |
| 2.  | 260.00         | BB          | 27.1                | 26.4                | 17.8                    | 29.9                | 3.9                   | 6.0            | 24.9                  | 24.2                  | 46.0                     | 21.1        | 21.8        |
| 3.  | 384.66         | BB          | 30.7                | 38.5                | 16.0                    | 30.0                | 4.9                   | 6.0            | 27.6                  | 35.4                  | 46.0                     | 18.4        | 10.6        |
| 4.  | 405.01         | BB          | 33.1                | 36.5                | 16.5                    | 30.0                | 5.1                   | 6.0            | 30.7                  | 34.1                  | 46.0                     | 15.3        | 11.9        |
| 5.  | 571.30         | BB          | 26.6                | 30.4                | 18.8                    | 30.0                | 6.3                   | 6.0            | 27.7                  | 31.5                  | 46.0                     | 18.3        | 14.5        |
| 6.  | 769.60         | BB          | 30.0                | 32.2                | 21.3                    | 29.9                | 7.5                   | 6.0            | 34.9                  | 37.1                  | 46.0                     | 11.1        | 8.9         |

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

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

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

# DATA OF RADIATION TEST

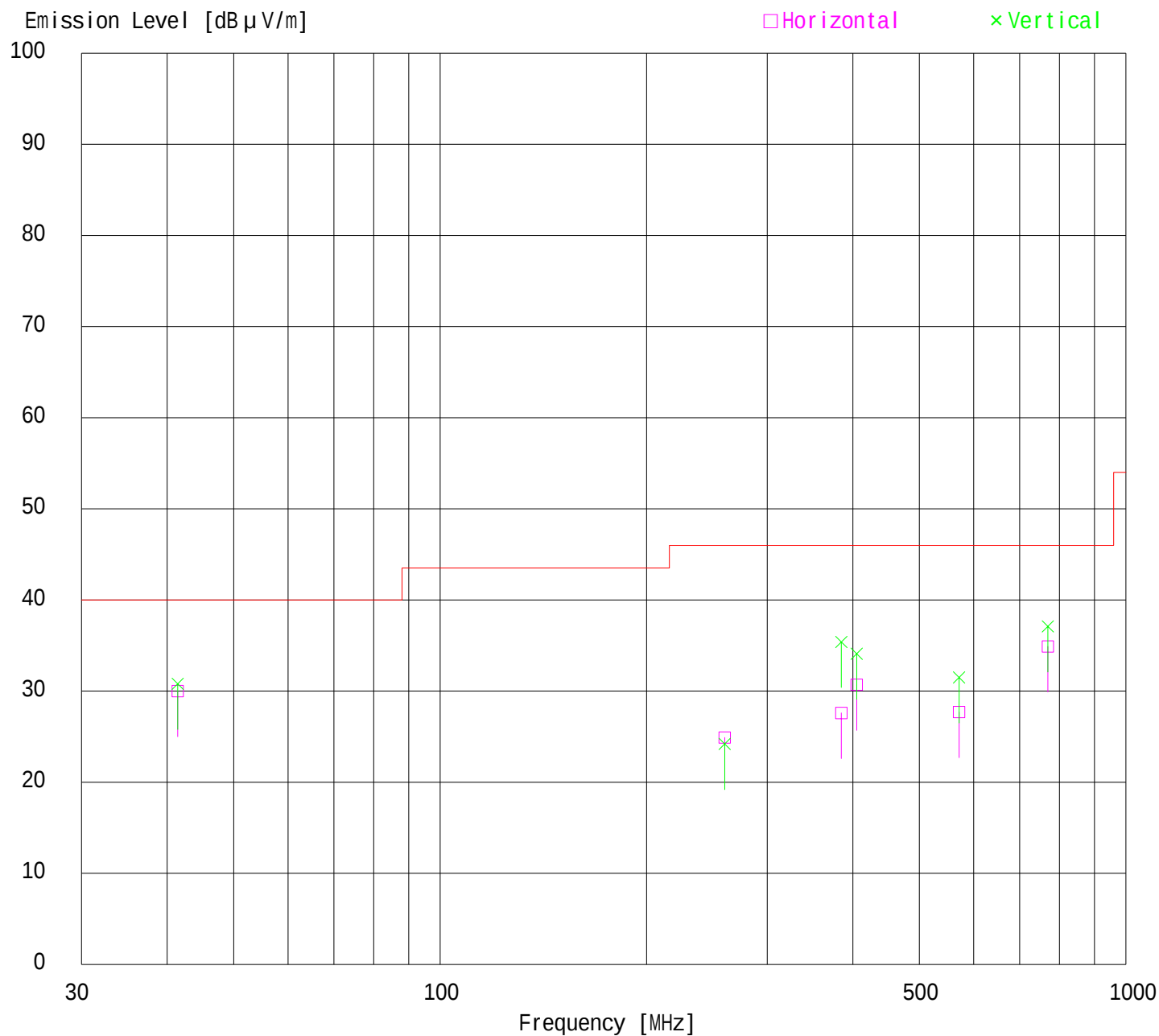
UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 24KE0259-YW-1

Applicant : Orion Electric Co.,Ltd.  
Kind of Equipment : DVD-RW/VCR  
Model No. : DVR-RT500-S  
Serial No. : -  
Power : AC120V/60Hz  
Mode : VCR Playback+Rec  
Remarks : -  
Date : 6/27/2004  
Test Distance : 3 m  
Temperature : 28  
Humidity : 44 %  
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama



# DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 24KE0259-YW-1

Applicant : Orion Electric Co.,Ltd.  
Kind of Equipment : DVD-RW/VCR  
Model No. : DVR-RT500-S  
Serial No. : -  
Power : AC120V/60Hz  
Mode : VCR Playback+Rec  
Remarks : -  
Date : 6/27/2004  
Test Distance : 3 m  
Temperature : 28 Engineer : Tsubasa Takayama  
Humidity : 44 %  
Regulation : FCC Part15B CLASS B(Peak Limit / Upper1GHz)

| No. | FREQ.<br>[MHz] | ANT<br>TYPE | READING         |                 | ANT<br>FACTOR<br>[dB/m] | AMP<br>GAIN<br>[dB] | CABLE<br>LOSS<br>[dB] | ATTEN.<br>[dB] | RESULT            |                   | LIMITS<br>[dB μ V/m] | MARGIN      |             |
|-----|----------------|-------------|-----------------|-----------------|-------------------------|---------------------|-----------------------|----------------|-------------------|-------------------|----------------------|-------------|-------------|
|     |                |             | HOR<br>[dB μ V] | VER<br>[dB μ V] |                         |                     |                       |                | HOR<br>[dB μ V/m] | VER<br>[dB μ V/m] |                      | HOR<br>[dB] | VER<br>[dB] |
| 1.  | 1053.95        | BB          | 52.5            | 55.9            | 25.2                    | 38.7                | 2.7                   | 0.0            | 41.7              | 45.1              | 74.0                 | 32.3        | 28.9        |
| 2.  | 1366.69        | BB          | 71.7            | 70.2            | 26.7                    | 38.4                | 3.1                   | 0.0            | 63.1              | 61.6              | 74.0                 | 10.9        | 12.4        |
| 3.  | 1549.50        | BB          | 53.2            | 51.8            | 27.7                    | 38.0                | 3.3                   | 0.0            | 46.2              | 44.8              | 74.0                 | 27.8        | 29.2        |

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

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

# DATA OF RADIATION TEST

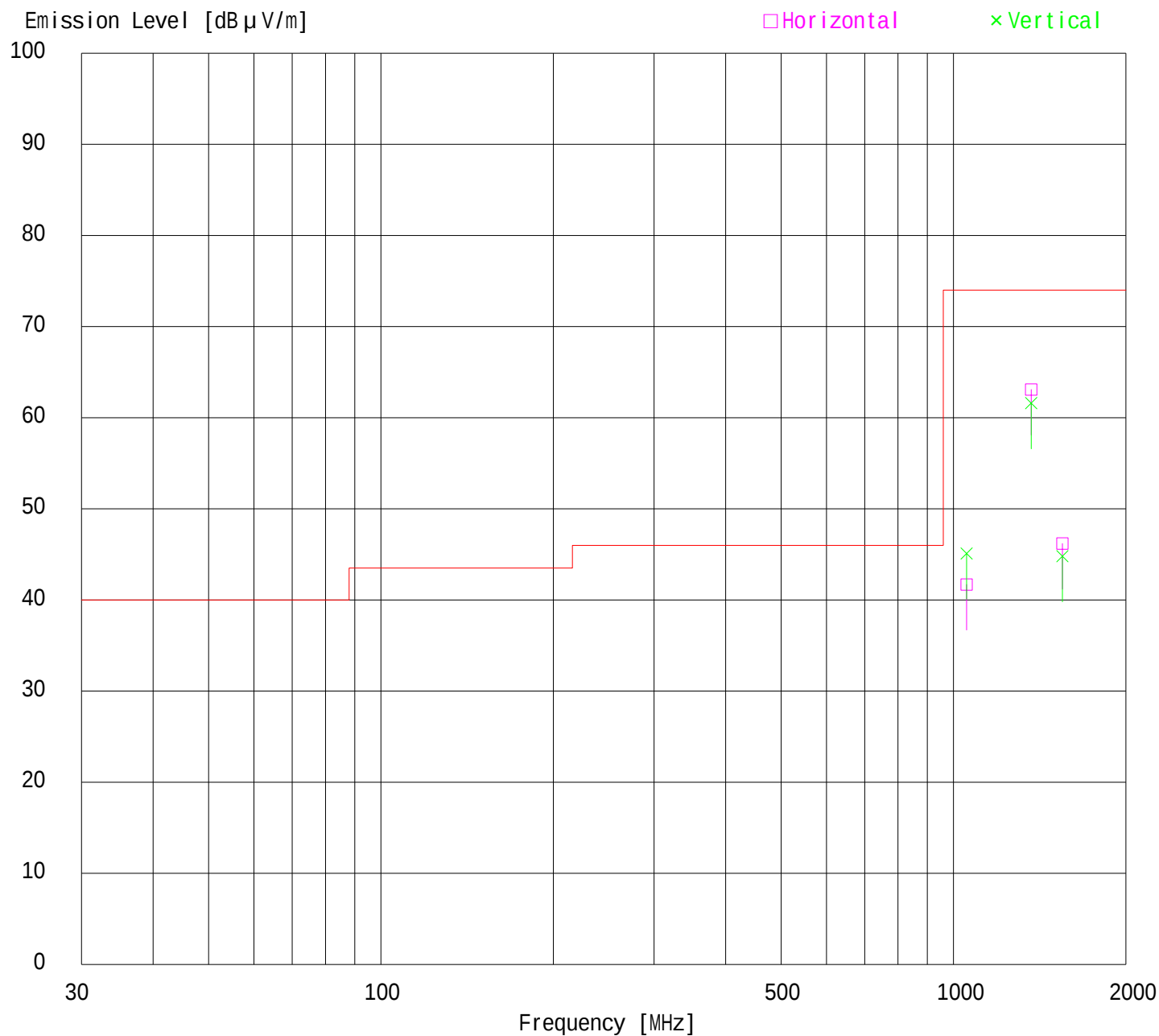
UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 24KE0259-YW-1

Applicant : Orion Electric Co.,Ltd.  
Kind of Equipment : DVD-RW/VCR  
Model No. : DVR-RT500-S  
Serial No. : -  
Power : AC120V/60Hz  
Mode : VCR Playback+Rec  
Remarks : -  
Date : 6/27/2004  
Test Distance : 3 m  
Temperature : 28  
Humidity : 44 %  
Regulation : FCC Part15B CLASS B(Peak Limit / Upper1GHz)

Engineer : Tsubasa Takayama



# DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 24KE0259-YW-1

Applicant : Orion Electric Co.,Ltd.  
Kind of Equipment : DVD-RW/VCR  
Model No. : DVR-RT500-S  
Serial No. : -  
Power : AC120V/60Hz  
Mode : VCR Playback+Rec  
Remarks : -  
Date : 6/27/2004  
Test Distance : 3 m  
Temperature : 28 Engineer : Tsubasa Takayama  
Humidity : 44 %  
Regulation : FCC Part15B CLASS B(Average Limit / Upper1GHz)

| No. | FREQ.<br>[MHz] | ANT<br>TYPE | READING        |                | ANT<br>FACTOR<br>[dB/m] | AMP<br>GAIN<br>[dB] | CABLE<br>LOSS<br>[dB] | ATTEN.<br>[dB] | RESULT           |                  | LIMITS<br>[dB μV/m] | MARGIN      |             |
|-----|----------------|-------------|----------------|----------------|-------------------------|---------------------|-----------------------|----------------|------------------|------------------|---------------------|-------------|-------------|
|     |                |             | HOR<br>[dB μV] | VER<br>[dB μV] |                         |                     |                       |                | HOR<br>[dB μV/m] | VER<br>[dB μV/m] |                     | HOR<br>[dB] | VER<br>[dB] |
| 1.  | 1053.95        | BB          | 42.5           | 46.4           | 25.2                    | 38.7                | 2.7                   | 0.0            | 31.7             | 35.6             | 54.0                | 22.3        | 18.4        |
| 2.  | 1366.69        | BB          | 42.8           | 42.7           | 26.7                    | 38.4                | 3.1                   | 0.0            | 34.2             | 34.1             | 54.0                | 19.8        | 19.9        |
| 3.  | 1549.50        | BB          | 37.1           | 37.4           | 27.7                    | 38.0                | 3.3                   | 0.0            | 30.1             | 30.4             | 54.0                | 23.9        | 23.6        |

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

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

# DATA OF RADIATION TEST

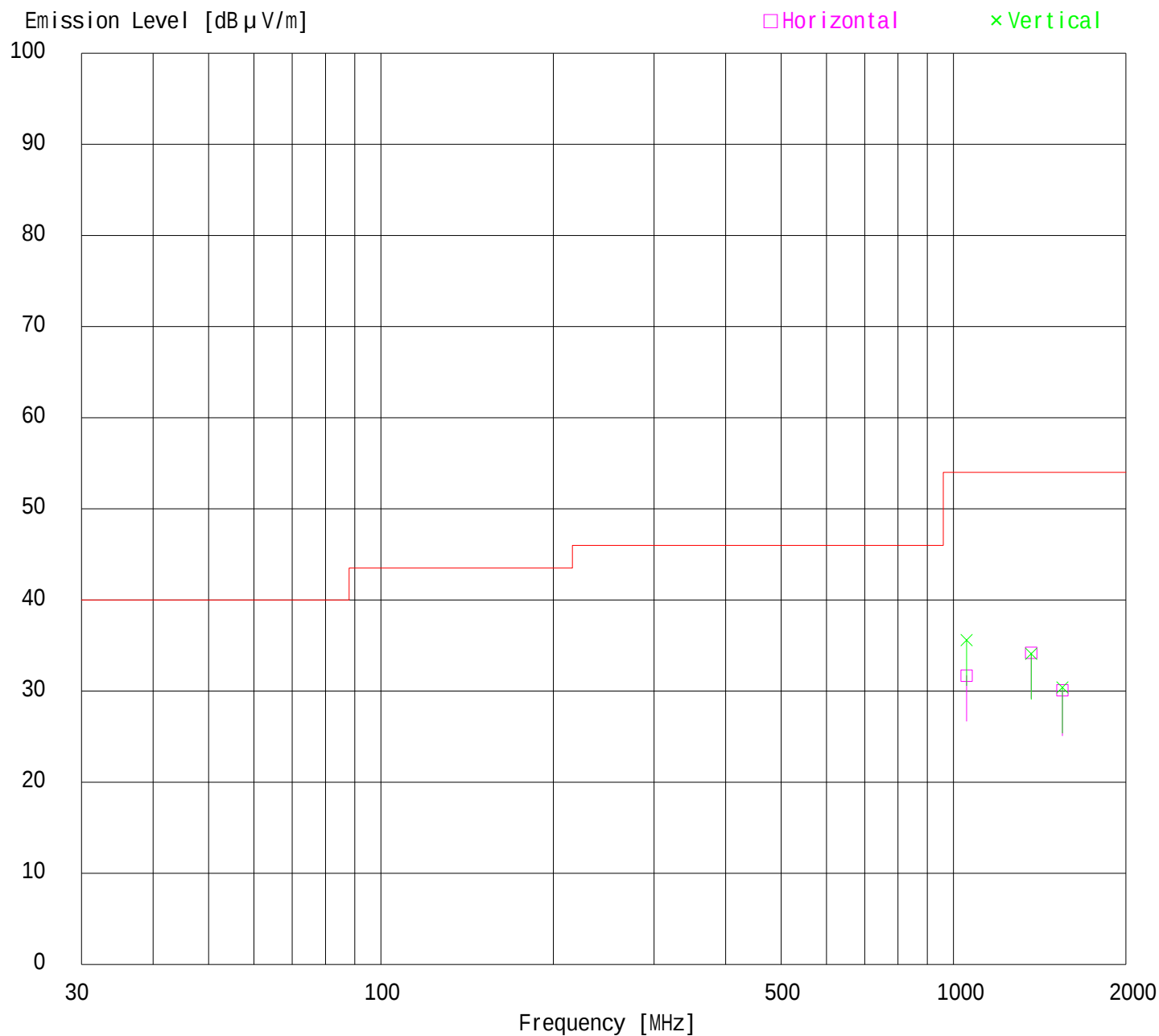
UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 24KE0259-YW-1

Applicant : Orion Electric Co.,Ltd.  
Kind of Equipment : DVD-RW/VCR  
Model No. : DVR-RT500-S  
Serial No. : -  
Power : AC120V/60Hz  
Mode : VCR Playback+Rec  
Remarks : -  
Date : 6/27/2004  
Test Distance : 3 m  
Temperature : 28  
Humidity : 44 %  
Regulation : FCC Part15B CLASS B(Average Limit / Upper1GHz)

Engineer : Tsubasa Takayama



# DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No.: 24KE0259-YW-1

Applicant : Orion Electric Co.,Ltd.  
 Kind of Equipment : DVD-RW/VCR  
 Model No. : DVR-RT500-S  
 Serial No. : -  
 Power : AC120V/60Hz  
 Mode : DVD Play  
 Remarks : -  
 Date : 6/27/2004  
 Test Distance : 3 m  
 Temperature : 28  
 Humidity : 44 %  
 Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama

| No. | FREQ.<br>[MHz] | ANT<br>TYPE | READING         |                 | ANT<br>FACTOR<br>[dB/m] | AMP<br>GAIN<br>[dB] | CABLE<br>LOSS<br>[dB] | ATTEN.<br>[dB] | RESULT            |                   | LIMITS<br>[dB μ V/m] | MARGIN      |             |
|-----|----------------|-------------|-----------------|-----------------|-------------------------|---------------------|-----------------------|----------------|-------------------|-------------------|----------------------|-------------|-------------|
|     |                |             | HOR<br>[dB μ V] | VER<br>[dB μ V] |                         |                     |                       |                | HOR<br>[dB μ V/m] | VER<br>[dB μ V/m] |                      | HOR<br>[dB] | VER<br>[dB] |
| 1.  | 41.42          | BB          | 37.7            | 38.3            | 14.7                    | 29.9                | 1.5                   | 5.9            | 29.9              | 30.5              | 40.0                 | 10.1        | 9.5         |
| 2.  | 260.00         | BB          | 27.8            | 24.1            | 17.8                    | 29.9                | 3.9                   | 6.0            | 25.6              | 21.9              | 46.0                 | 20.4        | 24.1        |
| 3.  | 308.57         | BB          | 37.6            | 32.9            | 14.2                    | 29.9                | 4.3                   | 6.0            | 32.2              | 27.5              | 46.0                 | 13.8        | 18.5        |
| 4.  | 384.68         | BB          | 32.4            | 38.6            | 16.0                    | 30.0                | 4.9                   | 6.0            | 29.3              | 35.5              | 46.0                 | 16.7        | 10.5        |
| 5.  | 405.05         | BB          | 33.0            | 36.9            | 16.5                    | 30.0                | 5.1                   | 6.0            | 30.6              | 34.5              | 46.0                 | 15.4        | 11.5        |
| 6.  | 526.98         | BB          | 28.3            | 37.1            | 17.9                    | 30.1                | 6.0                   | 6.0            | 28.1              | 36.9              | 46.0                 | 17.9        | 9.1         |
| 7.  | 571.39         | BB          | 26.3            | 31.5            | 18.8                    | 30.0                | 6.3                   | 6.0            | 27.4              | 32.6              | 46.0                 | 18.6        | 13.4        |
| 8.  | 655.72         | BB          | 33.5            | 34.5            | 20.2                    | 29.9                | 6.8                   | 6.0            | 36.6              | 37.6              | 46.0                 | 9.4         | 8.4         |
| 9.  | 769.49         | BB          | 30.4            | 33.1            | 21.3                    | 29.9                | 7.5                   | 6.0            | 35.3              | 38.0              | 46.0                 | 10.7        | 8.0         |

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

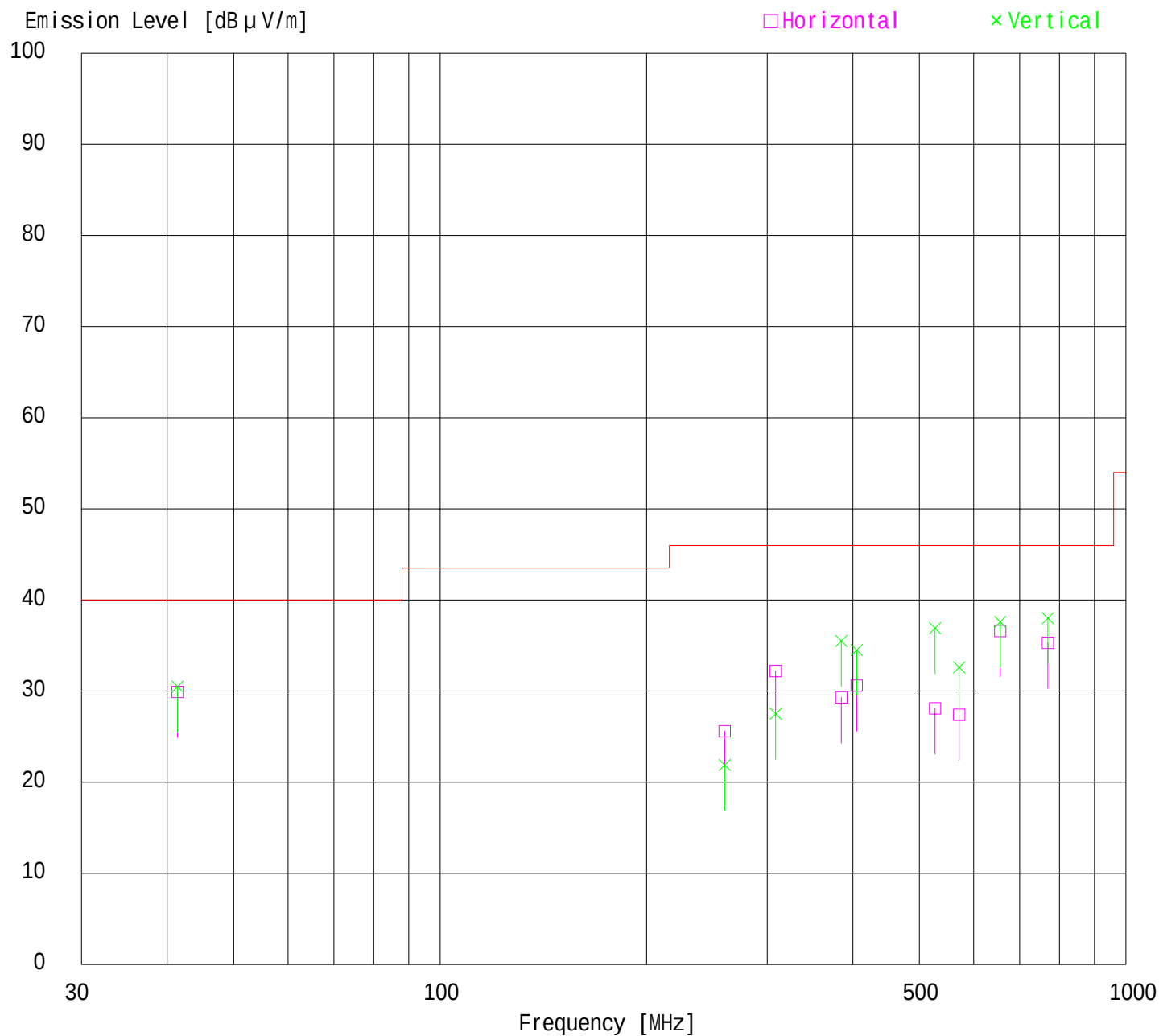
UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 24KE0259-YW-1

Applicant : Orion Electric Co.,Ltd.  
Kind of Equipment : DVD-RW/VCR  
Model No. : DVR-RT500-S  
Serial No. : -  
Power : AC120V/60Hz  
Mode : DVD Play  
Remarks : -  
Date : 6/27/2004  
Test Distance : 3 m  
Temperature : 28  
Humidity : 44 %  
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama



# DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 24KE0259-YW-1

Applicant : Orion Electric Co.,Ltd.  
Kind of Equipment : DVD-RW/VCR  
Model No. : DVR-RT500-S  
Serial No. : -  
Power : AC120V/60Hz  
Mode : DVD Play  
Remarks :  
Date : 6/27/2004  
Test Distance : 3 m  
Temperature : 28  
Humidity : 44 %  
Regulation : FCC Part15B CLASS B(Peak Limit / Upper1GHz)

Engineer : Tsubasa Takayama

| No. | FREQ.<br>[MHz] | ANT<br>TYPE | READING         |                 | ANT<br>FACTOR<br>[dB/m] | AMP<br>GAIN<br>[dB] | CABLE<br>LOSS<br>[dB] | ATTEN.<br>[dB] | RESULT            |                   | LIMITS<br>[dB μ V/m] | MARGIN      |             |
|-----|----------------|-------------|-----------------|-----------------|-------------------------|---------------------|-----------------------|----------------|-------------------|-------------------|----------------------|-------------|-------------|
|     |                |             | HOR<br>[dB μ V] | VER<br>[dB μ V] |                         |                     |                       |                | HOR<br>[dB μ V/m] | VER<br>[dB μ V/m] |                      | HOR<br>[dB] | VER<br>[dB] |
| 1.  | 1053.95        | BB          | 56.5            | 55.8            | 25.2                    | 38.7                | 2.7                   | 0.0            | 45.7              | 45.0              | 74.0                 | 28.3        | 29.0        |
| 2.  | 1320.02        | BB          | 50.9            | 53.2            | 26.5                    | 38.4                | 3.0                   | 0.0            | 42.0              | 44.3              | 74.0                 | 32.0        | 29.7        |
| 3.  | 1549.48        | BB          | 54.4            | 54.2            | 27.7                    | 38.0                | 3.3                   | 0.0            | 47.4              | 47.2              | 74.0                 | 26.6        | 26.8        |

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

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

# DATA OF RADIATION TEST

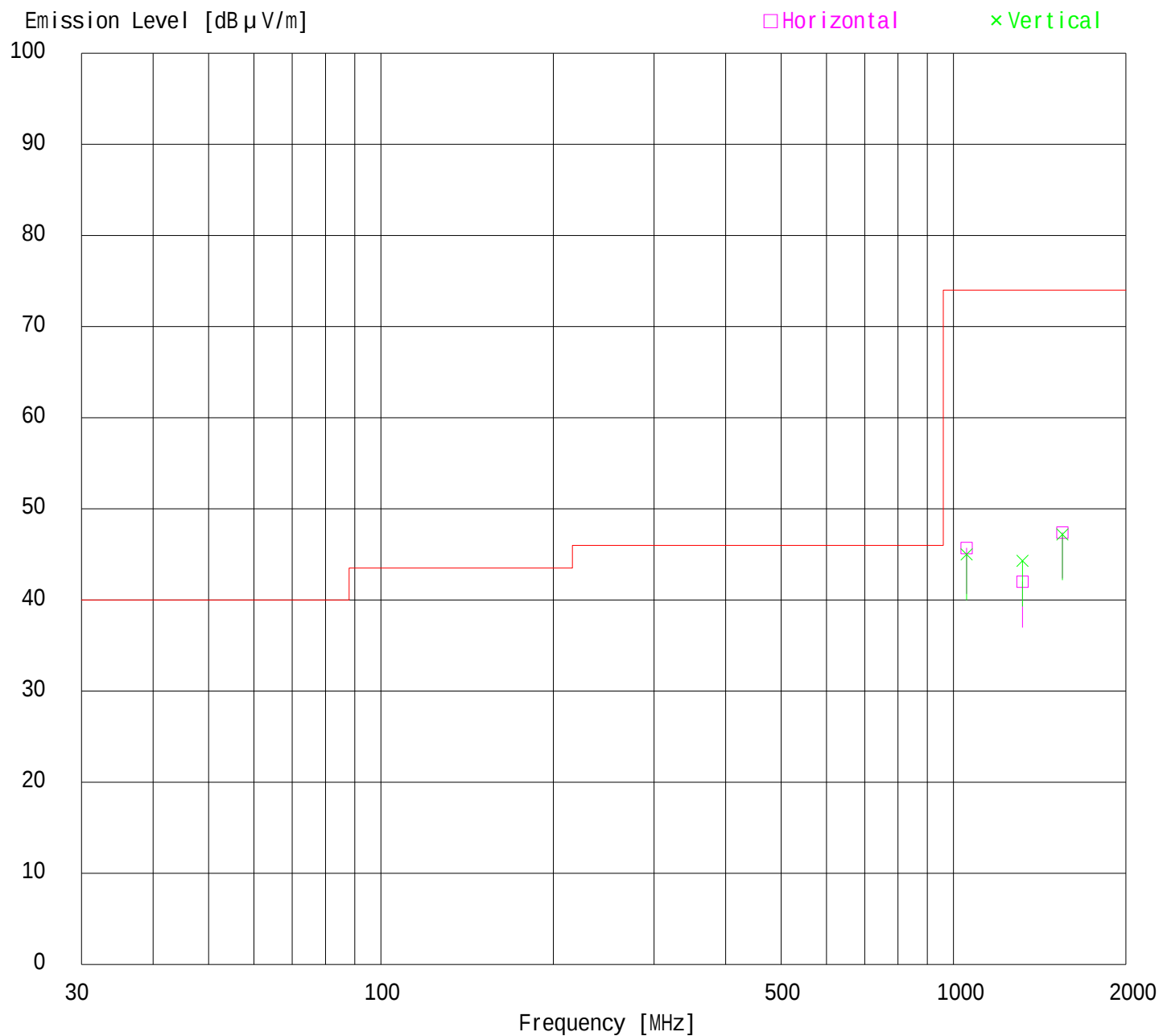
UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 24KE0259-YW-1

Applicant : Orion Electric Co.,Ltd.  
Kind of Equipment : DVD-RW/VCR  
Model No. : DVR-RT500-S  
Serial No. : -  
Power : AC120V/60Hz  
Mode : DVD Play  
Remarks :  
Date : 6/27/2004  
Test Distance : 3 m  
Temperature : 28  
Humidity : 44 %  
Regulation : FCC Part15B CLASS B(Peak Limit / Upper1GHz)

Engineer : Tsubasa Takayama



# DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 24KE0259-YW-1

Applicant : Orion Electric Co.,Ltd.  
Kind of Equipment : DVD-RW/VCR  
Model No. : DVR-RT500-S  
Serial No. : -  
Power : AC120V/60Hz  
Mode : DVD Play  
Remarks : -  
Date : 6/27/2004  
Test Distance : 3 m  
Temperature : 28 Engineer : Tsubasa Takayama  
Humidity : 44 %  
Regulation : FCC Part15B CLASS B(Average Limit / Upper1GHz)

| No. | FREQ.<br>[MHz] | ANT<br>TYPE | READING        |                | ANT<br>FACTOR<br>[dB/m] | AMP<br>GAIN<br>[dB] | CABLE<br>LOSS<br>[dB] | ATTEN.<br>[dB] | RESULT           |                  | LIMITS<br>[dB μV/m] | MARGIN      |             |
|-----|----------------|-------------|----------------|----------------|-------------------------|---------------------|-----------------------|----------------|------------------|------------------|---------------------|-------------|-------------|
|     |                |             | HOR<br>[dB μV] | VER<br>[dB μV] |                         |                     |                       |                | HOR<br>[dB μV/m] | VER<br>[dB μV/m] |                     | HOR<br>[dB] | VER<br>[dB] |
| 1.  | 1053.95        | BB          | 43.0           | 42.0           | 25.2                    | 38.7                | 2.7                   | 0.0            | 32.2             | 31.2             | 54.0                | 21.8        | 22.8        |
| 2.  | 1320.02        | BB          | 38.6           | 43.8           | 26.5                    | 38.4                | 3.0                   | 0.0            | 29.7             | 34.9             | 54.0                | 24.3        | 19.1        |
| 3.  | 1549.48        | BB          | 37.4           | 36.4           | 27.7                    | 38.0                | 3.3                   | 0.0            | 30.4             | 29.4             | 54.0                | 23.6        | 24.6        |

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

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

# DATA OF RADIATION TEST

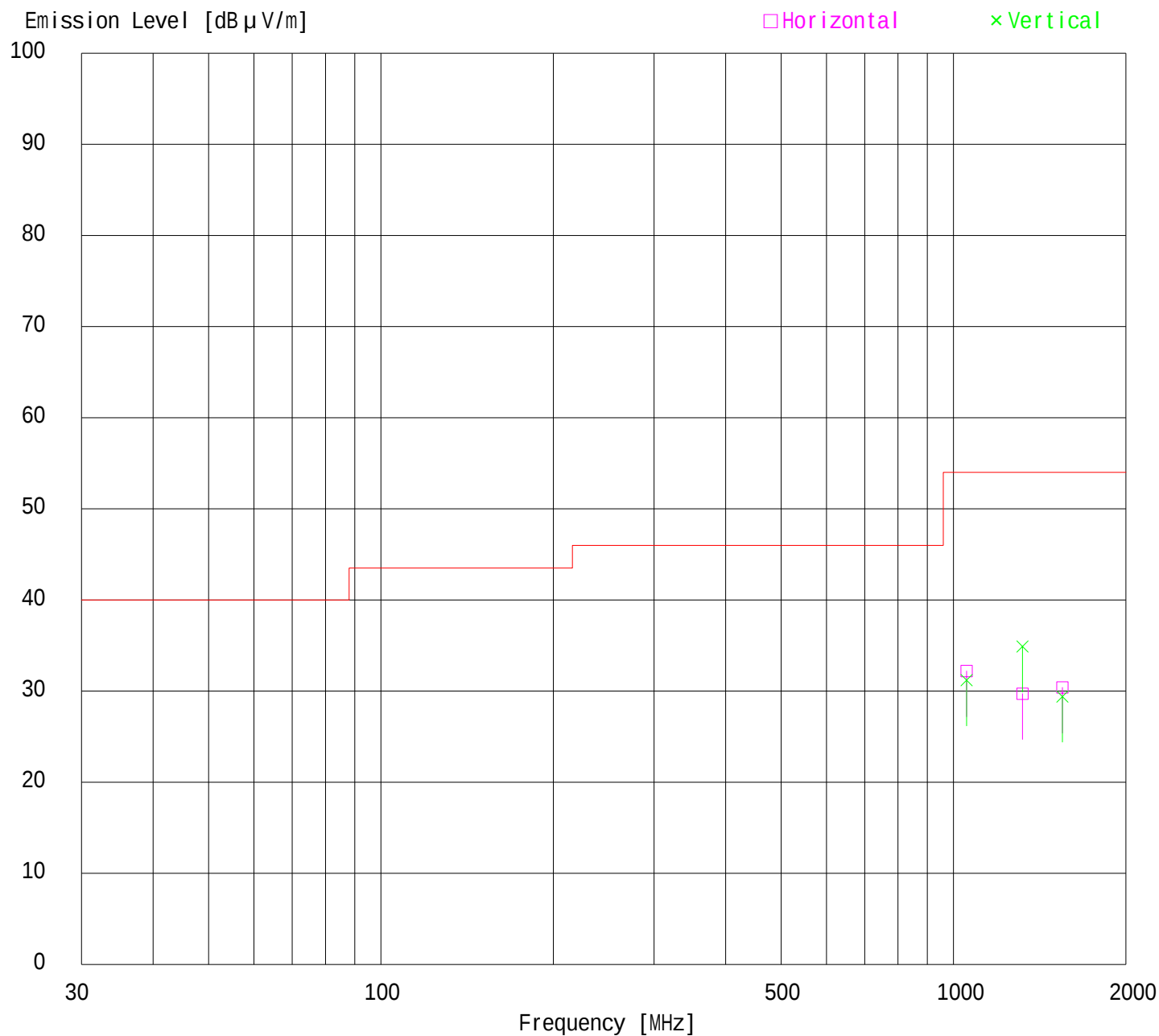
UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 24KE0259-YW-1

Applicant : Orion Electric Co.,Ltd.  
Kind of Equipment : DVD-RW/VCR  
Model No. : DVR-RT500-S  
Serial No. : -  
Power : AC120V/60Hz  
Mode : DVD Play  
Remarks : -  
Date : 6/27/2004  
Test Distance : 3 m  
Temperature : 28  
Humidity : 44 %  
Regulation : FCC Part15B CLASS B(Average Limit / Upper1GHz)

Engineer : Tsubasa Takayama



# DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 24KE0259-YW-1

Applicant : Orion Electric Co.,Ltd.  
Kind of Equipment : DVD-RW/VCR  
Model No. : DVR-RT500-S  
Serial No. : -  
Power : AC120V/60Hz  
Mode : DVD Play  
Remarks : Test Channel #3  
Date : 6/27/2004  
Test Distance : 3 m  
Temperature : 23  
Humidity : 34 %  
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama

| No. | FREQ.<br>[MHz] | ANT<br>TYPE | READING             |                     | ANT<br>FACTOR<br>[dB/m] | AMP<br>GAIN<br>[dB] | CABLE<br>LOSS<br>[dB] | ATTEN.<br>[dB] | RESULT                |                       | LIMITS<br>[dB $\mu$ V/m] | MARGIN      |             |
|-----|----------------|-------------|---------------------|---------------------|-------------------------|---------------------|-----------------------|----------------|-----------------------|-----------------------|--------------------------|-------------|-------------|
|     |                |             | HOR<br>[dB $\mu$ V] | VER<br>[dB $\mu$ V] |                         |                     |                       |                | HOR<br>[dB $\mu$ V/m] | VER<br>[dB $\mu$ V/m] |                          | HOR<br>[dB] | VER<br>[dB] |
| 1.  | 61.25          | BB          | 23.6                | 25.6                | 8.4                     | 29.8                | 1.8                   | 5.9            | 9.9                   | 11.9                  | 40.0                     | 30.1        | 28.1        |
| 2.  | 65.75          | BB          | 25.6                | 27.0                | 7.6                     | 29.8                | 1.9                   | 5.9            | 11.2                  | 12.6                  | 40.0                     | 28.8        | 27.4        |
| 3.  | 122.50         | BB          | 24.9                | 23.4                | 13.6                    | 29.7                | 2.5                   | 5.9            | 17.2                  | 15.7                  | 43.5                     | 26.3        | 27.8        |
| 4.  | 245.00         | BB          | 22.1                | 22.3                | 17.1                    | 29.9                | 3.7                   | 5.9            | 18.9                  | 19.1                  | 46.0                     | 27.1        | 26.9        |

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

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

# DATA OF RADIATION TEST

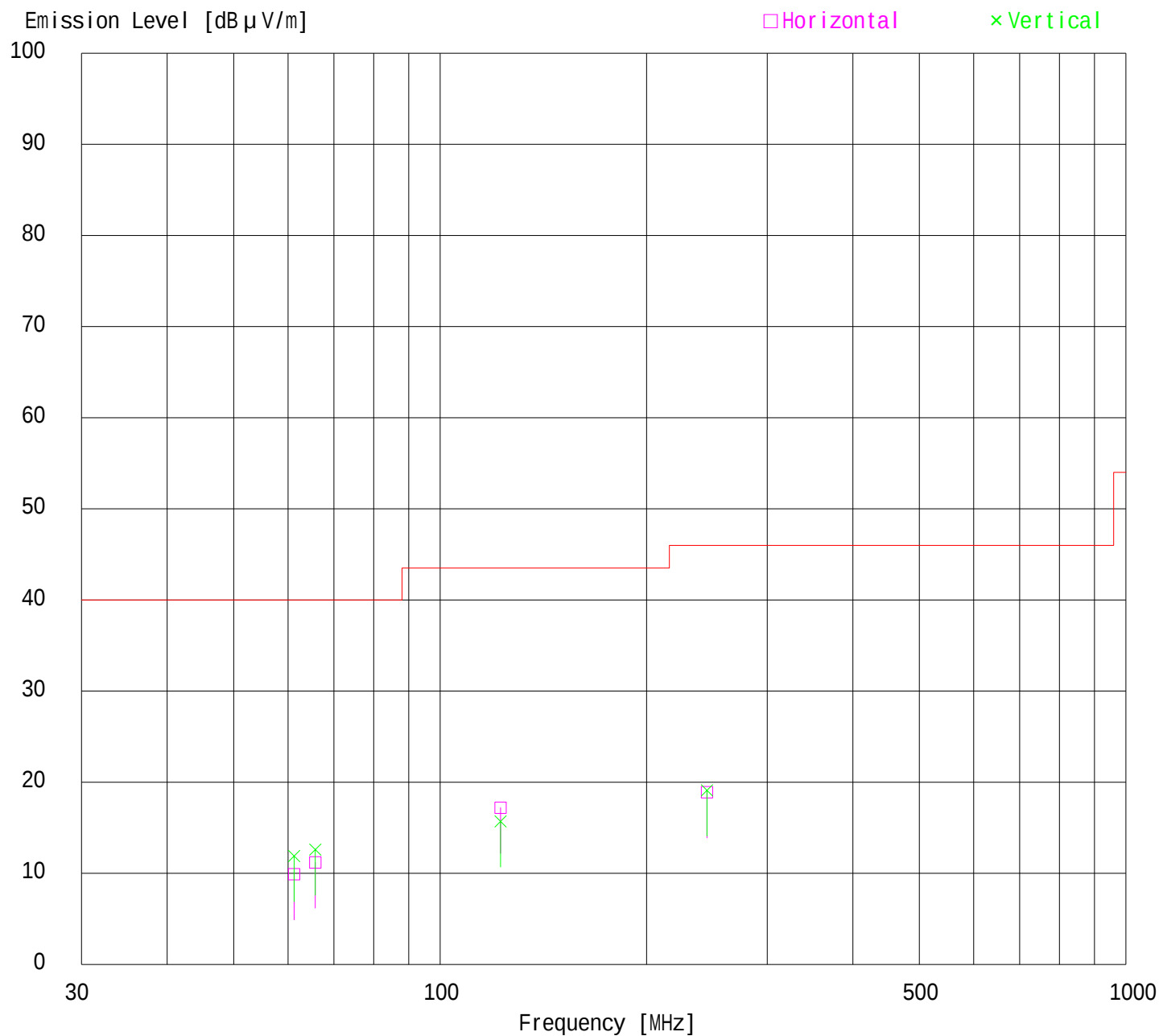
UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 24KE0259-YW-1

Applicant : Orion Electric Co.,Ltd.  
Kind of Equipment : DVD-RW/VCR  
Model No. : DVR-RT500-S  
Serial No. : -  
Power : AC120V/60Hz  
Mode : DVD Play  
Remarks : Test Channel #3  
Date : 6/27/2004  
Test Distance : 3 m  
Temperature : 23  
Humidity : 34 %  
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama



# DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 24KE0259-YW-1

Applicant : Orion Electric Co.,Ltd.  
Kind of Equipment : DVD-RW/VCR  
Model No. : DVR-RT500-S  
Serial No. : -  
Power : AC120V/60Hz  
Mode : DVD Play  
Remarks : Test Channel #4  
Date : 6/27/2004  
Test Distance : 3 m  
Temperature : 23  
Humidity : 34 %  
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama

| No. | FREQ.<br>[MHz] | ANT<br>TYPE | READING             |                     | ANT<br>FACTOR<br>[dB/m] | AMP<br>GAIN<br>[dB] | CABLE<br>LOSS<br>[dB] | ATTEN.<br>[dB] | RESULT                |                       | LIMITS<br>[dB $\mu$ V/m] | MARGIN      |             |
|-----|----------------|-------------|---------------------|---------------------|-------------------------|---------------------|-----------------------|----------------|-----------------------|-----------------------|--------------------------|-------------|-------------|
|     |                |             | HOR<br>[dB $\mu$ V] | VER<br>[dB $\mu$ V] |                         |                     |                       |                | HOR<br>[dB $\mu$ V/m] | VER<br>[dB $\mu$ V/m] |                          | HOR<br>[dB] | VER<br>[dB] |
| 1.  | 67.25          | BB          | 25.0                | 24.2                | 7.4                     | 29.8                | 1.9                   | 5.9            | 10.4                  | 9.6                   | 40.0                     | 29.6        | 30.4        |
| 2.  | 71.75          | BB          | 24.5                | 24.6                | 6.9                     | 29.8                | 2.0                   | 5.9            | 9.5                   | 9.6                   | 40.0                     | 30.5        | 30.4        |
| 3.  | 134.50         | BB          | 25.6                | 24.5                | 14.5                    | 29.8                | 2.6                   | 5.9            | 18.8                  | 17.7                  | 43.5                     | 24.7        | 25.8        |
| 4.  | 201.75         | BB          | 23.6                | 23.7                | 17.0                    | 29.9                | 3.3                   | 5.9            | 19.9                  | 20.0                  | 43.5                     | 23.6        | 23.5        |

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

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

# DATA OF RADIATION TEST

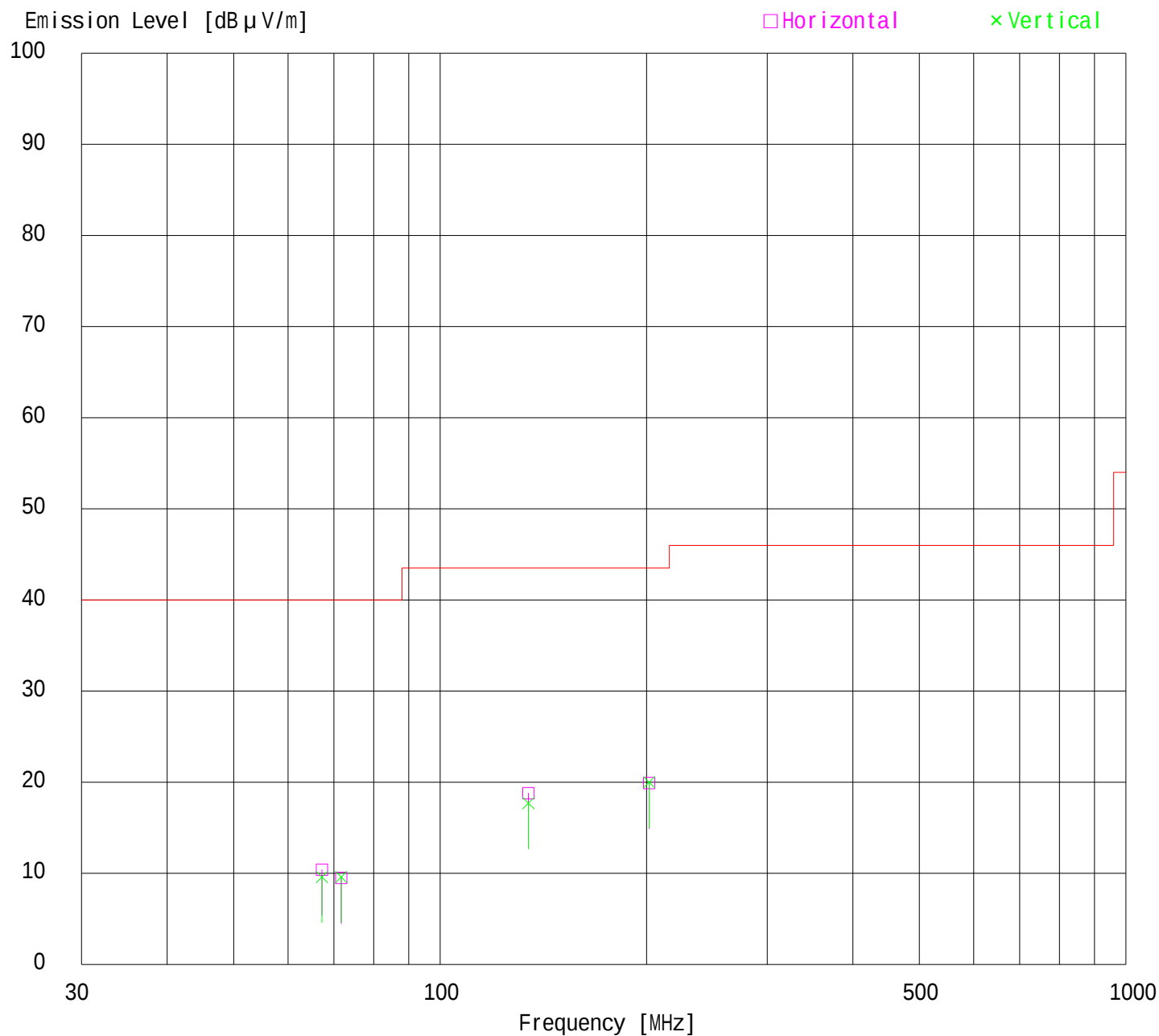
UL Apex Co., Ltd.

YOKOWA No.2 OPEN TEST SITE

Report No. : 24KE0259-YW-1

Applicant : Orion Electric Co.,Ltd.  
Kind of Equipment : DVD-RW/VCR  
Model No. : DVR-RT500-S  
Serial No. : -  
Power : AC120V/60Hz  
Mode : DVD Play  
Remarks : Test Channel #4  
Date : 6/27/2004  
Test Distance : 3 m  
Temperature : 23  
Humidity : 34 %  
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama



# DATA OF ANTENNA TERMINAL TEST

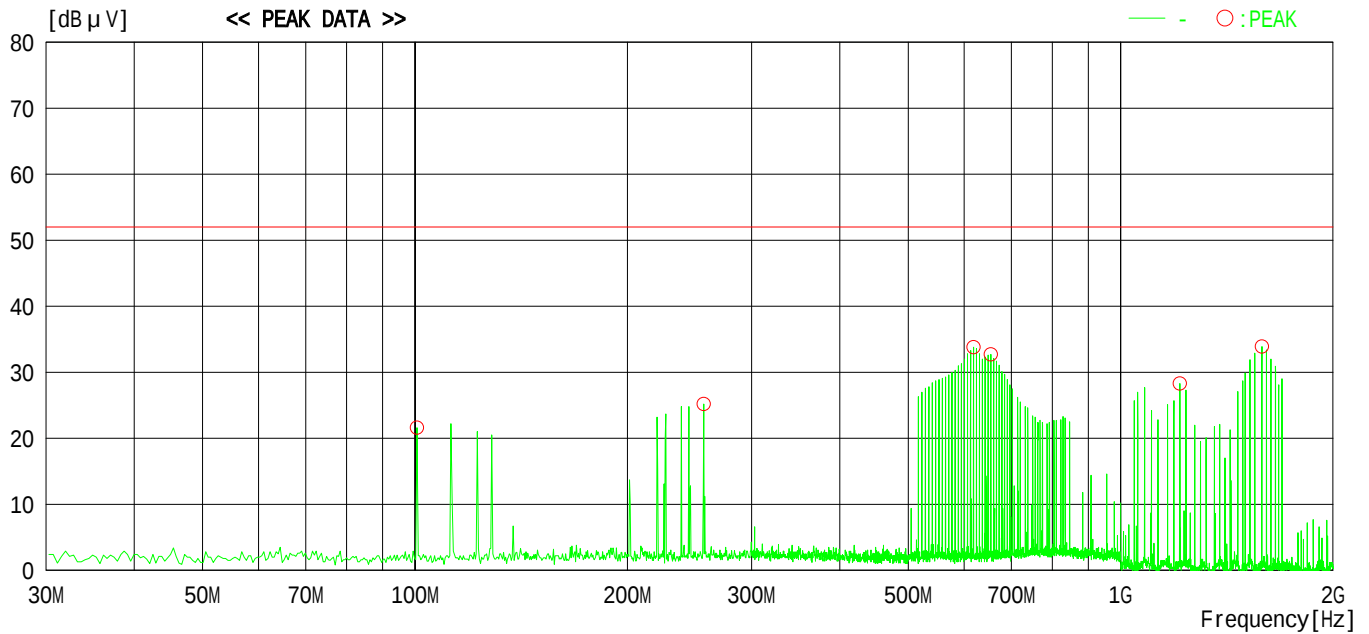
UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.  
EQUIPMENT : DVD-RW/VCR  
MODEL : DVR-RT500-S  
OPERATION MODE : TV Tuning mode

REPORT NO : 24KE0259-YW-1  
DATE : June 29,2004  
REGULATION : FCC 15B  
TEST ENGINEER : Tsubasa Takayama

TEMP./HUMID. : 26 /68%

LIMIT : FCC 15B ANTENNA TERMINAL



| NO | FREQ<br>[MHz] | READING<br>PEAK<br>[dB $\mu$ V] | C.F<br>[dB] | RESULT<br>[dB $\mu$ V] | LIMIT              |                    | MARGIN     |            | PHASE |
|----|---------------|---------------------------------|-------------|------------------------|--------------------|--------------------|------------|------------|-------|
|    |               |                                 |             |                        | QP<br>[dB $\mu$ V] | AV<br>[dB $\mu$ V] | QP<br>[dB] | AV<br>[dB] |       |
| 1  | 100.66400     | 41.2                            | -19.6       | 21.6                   | 52.0               | ----               | 30.4       | ----       | -     |
| 2  | 256.59350     | 44.2                            | -19.0       | 25.2                   | 52.0               | ----               | 26.8       | ----       | -     |
| 3  | 618.85350     | 54.0                            | -20.2       | 33.8                   | 52.0               | ----               | 18.2       | ----       | -     |
| 4  | 654.85240     | 52.8                            | -20.1       | 32.7                   | 52.0               | ----               | 19.3       | ----       | -     |
| 5  | 1213.55800    | 57.8                            | -29.5       | 28.3                   | 52.0               | ----               | 23.7       | ----       | -     |
| 6  | 1585.70800    | 63.0                            | -29.1       | 33.9                   | 52.0               | ----               | 18.1       | ----       | -     |

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

# DATA OF ANTENNA TERMINAL TEST

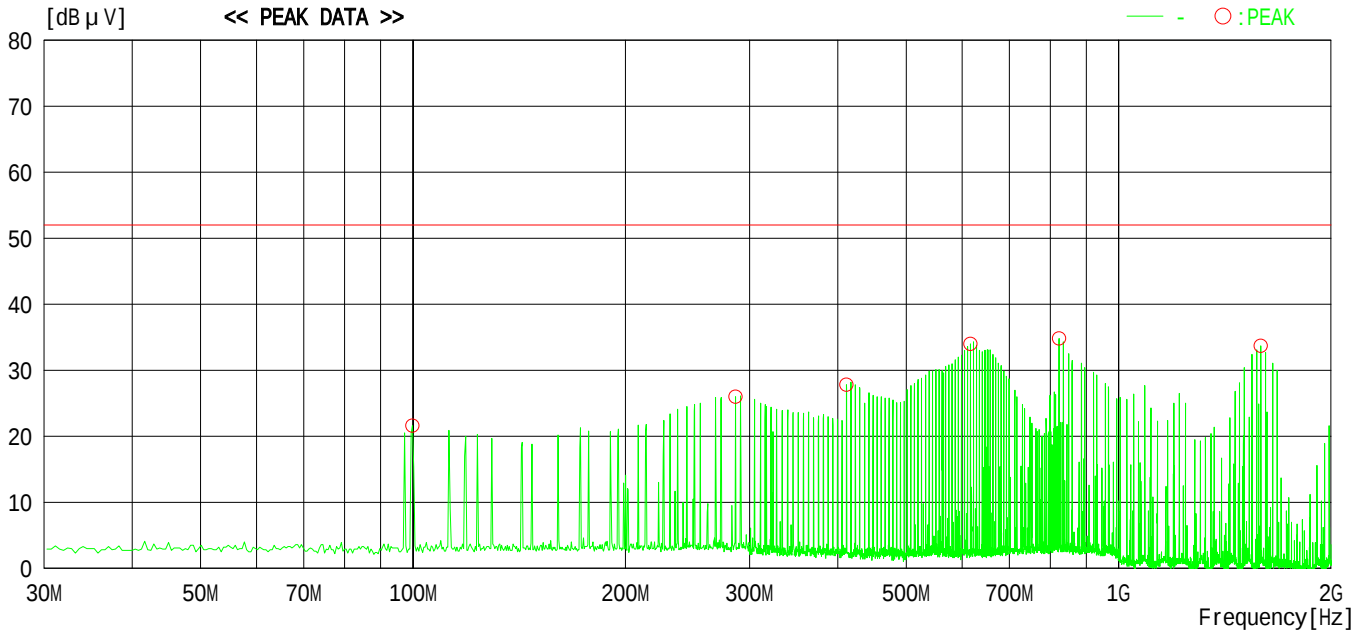
UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.  
EQUIPMENT : DVD-RW/VCR  
MODEL : DVR-RT500-S  
OPERATION MODE : CATV Tuning mode

REPORT NO : 24KE0259-YW-1  
DATE : June 29,2004  
REGULATION : FCC 15B  
TEST ENGINEER : Tsubasa Takayama

TEMP./HUMID. : 26 /68%

LIMIT : FCC 15B ANTENNA TERMINAL



| NO | FREQ<br>[MHz] | READING<br>PEAK<br>[dB $\mu$ V] | C.F<br>[dB] | RESULT<br>[dB $\mu$ V] | LIMIT              |                    | MARGIN     |            | PHASE |
|----|---------------|---------------------------------|-------------|------------------------|--------------------|--------------------|------------|------------|-------|
|    |               |                                 |             |                        | QP<br>[dB $\mu$ V] | AV<br>[dB $\mu$ V] | QP<br>[dB] | AV<br>[dB] |       |
| 1  | 99.82113      | 41.2                            | -19.6       | 21.6                   | 52.0               | ----               | 30.4       | ----       | -     |
| 2  | 286.51410     | 45.0                            | -19.0       | 26.0                   | 52.0               | ----               | 26.0       | ----       | -     |
| 3  | 411.42520     | 47.5                            | -19.7       | 27.8                   | 52.0               | ----               | 24.2       | ----       | -     |
| 4  | 616.85360     | 54.2                            | -20.2       | 34.0                   | 52.0               | ----               | 18.0       | ----       | -     |
| 5  | 823.43360     | 54.5                            | -19.7       | 34.8                   | 52.0               | ----               | 17.2       | ----       | -     |
| 6  | 1590.70800    | 62.8                            | -29.1       | 33.7                   | 52.0               | ----               | 18.3       | ----       | -     |

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

## RF output level

UL Apex Co., LTD.  
YOKOWA EMC LAB.

|              |                              |               |                         |
|--------------|------------------------------|---------------|-------------------------|
| Company      | : Orion Electric Co.,Ltd.    | Report Number | : 24KE0259-YW-1         |
| Equipment    | : DVD-RW/VCR                 | Regulation    | : FCC Part15B Subpart B |
| Model number | : DVR-RT500-S                | Date          | : July 01,2004          |
| Power        | : AC 120 V / 60 Hz           | Temp./Humid   | : 24 /34%               |
| Description  | : TV Reception + Rec (0dBmV) | Engineer      | : Tsubasa Takayama      |

### Video signal

| Ch. | Frequency<br>[MHz] | Meter reading<br>[dBuV] | Correction<br>factor<br>[dB] | Result<br>[dB] | Limits<br>[dBuV] | Margin<br>[dB] |
|-----|--------------------|-------------------------|------------------------------|----------------|------------------|----------------|
| 3   | 61.25              | 87.9                    | 21.7                         | 66.2           | 69.5             | 3.3            |
| 4   | 67.25              | 87.5                    | 22.0                         | 65.5           | 69.5             | 4.0            |

### Audio signal

| Ch. | Frequency<br>[MHz] | Meter reading<br>[dBuV] | Correction<br>factor<br>[dB] | Result<br>[dB] | Limits<br>[dBuV] | Margin<br>[dB] |
|-----|--------------------|-------------------------|------------------------------|----------------|------------------|----------------|
| 3   | 56.75              | 74.0                    | 21.9                         | 52.1           | 56.5             | 4.4            |
|     | 65.75              | 73.0                    | 22.0                         | 51.0           | 56.5             | 5.5            |
| 4   | 62.75              | 72.8                    | 21.9                         | 50.9           | 56.5             | 5.6            |
|     | 71.75              | 71.7                    | 22.0                         | 49.7           | 56.5             | 6.8            |

## **RF output level**

UL Apex Co., LTD.  
YOKOWA EMC LAB.

|              |                              |               |                         |
|--------------|------------------------------|---------------|-------------------------|
| Company      | : Orion Electric Co.,Ltd.    | Report Number | : 24KE0259-YW-1         |
| Equipment    | : DVD-RW/VCR                 | Regulation    | : FCC Part15B Subpart B |
| Model number | : DVR-RT500-S                | Date          | : July 01,2004          |
| Power        | : AC 120 V / 60 Hz           | Temp./Humid   | : 24 /34%               |
| Description  | : TV Reception + Rec(25dBmV) | Engineer      | : Tsubasa Takayama      |

### Video signal

| Ch. | Frequency<br>[MHz] | Meter reading<br>[dBuV] | Correction<br>factor<br>[dB] | Result<br>[dB] | Limits<br>[dBuV] | Margin<br>[dB] |
|-----|--------------------|-------------------------|------------------------------|----------------|------------------|----------------|
| 3   | 61.25              | 87.7                    | 21.7                         | 66.0           | 69.5             | 3.5            |
| 4   | 67.25              | 87.3                    | 22.0                         | 65.3           | 69.5             | 4.2            |

### Audio signal

| Ch. | Frequency<br>[MHz] | Meter reading<br>[dBuV] | Correction<br>factor<br>[dB] | Result<br>[dB] | Limits<br>[dBuV] | Margin<br>[dB] |
|-----|--------------------|-------------------------|------------------------------|----------------|------------------|----------------|
| 3   | 56.75              | 72.5                    | 21.9                         | 50.6           | 56.5             | 5.9            |
|     | 65.75              | 71.3                    | 22.0                         | 49.3           | 56.5             | 7.2            |
| 4   | 62.75              | 73.0                    | 21.9                         | 51.1           | 56.5             | 5.4            |
|     | 71.75              | 71.9                    | 22.0                         | 49.9           | 56.5             | 6.6            |

## **RF output level**

UL Apex Co., LTD.  
YOKOWA EMC LAB.

|              |                           |               |                         |
|--------------|---------------------------|---------------|-------------------------|
| Company      | : Orion Electric Co.,Ltd. | Report Number | : 24KE0259-YW-1         |
| Equipment    | : DVD-RW/VCR              | Regulation    | : FCC Part15B Subpart B |
| Model number | : DVR-RT500-S             | Date          | : July 01,2004          |
| Power        | : AC 120 V / 60 Hz        | Temp./Humid   | : 24 /34%               |
| Description  | : AV Input1 + Rec(1Vp-p)  | Engineer      | : Tsubasa Takayama      |

### Video signal

| Ch. | Frequency<br>[MHz] | Meter reading<br>[dBuV] | Correction<br>factor<br>[dB] | Result<br>[dB] | Limits<br>[dBuV] | Margin<br>[dB] |
|-----|--------------------|-------------------------|------------------------------|----------------|------------------|----------------|
| 3   | 61.25              | 87.8                    | 21.7                         | 66.1           | 69.5             | 3.4            |
| 4   | 67.25              | 87.4                    | 22.0                         | 65.4           | 69.5             | 4.1            |

### Audio signal

| Ch. | Frequency<br>[MHz] | Meter reading<br>[dBuV] | Correction<br>factor<br>[dB] | Result<br>[dB] | Limits<br>[dBuV] | Margin<br>[dB] |
|-----|--------------------|-------------------------|------------------------------|----------------|------------------|----------------|
| 3   | 56.75              | 74.1                    | 21.9                         | 52.2           | 56.5             | 4.3            |
|     | 65.75              | 72.4                    | 22.0                         | 50.4           | 56.5             | 6.1            |
| 4   | 62.75              | 73.0                    | 21.9                         | 51.1           | 56.5             | 5.4            |
|     | 71.75              | 71.7                    | 22.0                         | 49.7           | 56.5             | 6.8            |

### **RF output level**

UL Apex Co., LTD.  
YOKOWA EMC LAB.

|              |                           |               |                         |
|--------------|---------------------------|---------------|-------------------------|
| Company      | : Orion Electric Co.,Ltd. | Report Number | : 24KE0259-YW-1         |
| Equipment    | : DVD-RW/VCR              | Regulation    | : FCC Part15B Subpart B |
| Model number | : DVR-RT500-S             | Date          | : July 01,2004          |
| Power        | : AC 120 V / 60 Hz        | Temp./Humid   | : 24 /34%               |
| Description  | : AV Input1 + Rec(5Vp-p)  | Engineer      | : Tsubasa Takayama      |

#### Video signal

| Ch. | Frequency<br>[MHz] | Meter reading<br>[dBuV] | Correction<br>factor<br>[dB] | Result<br>[dB] | Limits<br>[dBuV] | Margin<br>[dB] |
|-----|--------------------|-------------------------|------------------------------|----------------|------------------|----------------|
| 3   | 61.25              | 88.2                    | 21.7                         | 66.5           | 69.5             | 3.0            |
| 4   | 67.25              | 87.4                    | 22.0                         | 65.4           | 69.5             | 4.1            |

#### Audio signal

| Ch. | Frequency<br>[MHz] | Meter reading<br>[dBuV] | Correction<br>factor<br>[dB] | Result<br>[dB] | Limits<br>[dBuV] | Margin<br>[dB] |
|-----|--------------------|-------------------------|------------------------------|----------------|------------------|----------------|
| 3   | 56.75              | 73.8                    | 21.9                         | 51.9           | 56.5             | 4.6            |
|     | 65.75              | 73.0                    | 22.0                         | 51.0           | 56.5             | 5.5            |
| 4   | 62.75              | 73.1                    | 21.9                         | 51.2           | 56.5             | 5.3            |
|     | 71.75              | 72.0                    | 22.0                         | 50.0           | 56.5             | 6.5            |

## RF output level

UL Apex Co., LTD.  
YOKOWA EMC LAB.

|              |                           |               |                         |
|--------------|---------------------------|---------------|-------------------------|
| Company      | : Orion Electric Co.,Ltd. | Report Number | : 24KE0259-YW-1         |
| Equipment    | : DVD-RW/VCR              | Regulation    | : FCC Prat15B Subpart B |
| Model number | : DVR-RT500-S             | Date          | : July 01,2004          |
| Power        | : AC 120 V / 60 Hz        | Temp./Humid   | : 24 /34%               |
| Description  | : AV Input2 + Rec(1Vp-p)  | Engineer      | : Tsubasa Takayama      |

### Video signal

| Ch. | Frequency<br>[MHz] | Meter reading<br>[dBuV] | Correction<br>factor<br>[dB] | Result<br>[dB] | Limits<br>[dBuV] | Margin<br>[dB] |
|-----|--------------------|-------------------------|------------------------------|----------------|------------------|----------------|
| 3   | 61.25              | 87.8                    | 21.7                         | 66.1           | 69.5             | 3.4            |
| 4   | 67.25              | 87.3                    | 22.0                         | 65.3           | 69.5             | 4.2            |

### Audio signal

| Ch. | Frequency<br>[MHz] | Meter reading<br>[dBuV] | Correction<br>factor<br>[dB] | Result<br>[dB] | Limits<br>[dBuV] | Margin<br>[dB] |
|-----|--------------------|-------------------------|------------------------------|----------------|------------------|----------------|
| 3   | 56.75              | 74.1                    | 21.9                         | 52.2           | 56.5             | 4.3            |
|     | 65.75              | 73.1                    | 22.0                         | 51.1           | 56.5             | 5.4            |
| 4   | 62.75              | 73.0                    | 21.9                         | 51.1           | 56.5             | 5.4            |
|     | 71.75              | 71.9                    | 22.0                         | 49.9           | 56.5             | 6.6            |

### **RF output level**

UL Apex Co., LTD.  
YOKOWA EMC LAB.

|              |                           |               |                         |
|--------------|---------------------------|---------------|-------------------------|
| Company      | : Orion Electric Co.,Ltd. | Report Number | : 24KE0259-YW-1         |
| Equipment    | : DVD-RW/VCR              | Regulation    | : FCC Part15B Subpart B |
| Model number | : DVR-RT500-S             | Date          | : July 01,2004          |
| Power        | : AC 120 V / 60 Hz        | Temp./Humid   | : 24 /34%               |
| Description  | : AV Input2+ Rec (5Vp-p)  | Engineer      | : Tsubasa Takayama      |

#### Video signal

| Ch. | Frequency<br>[MHz] | Meter reading<br>[dBuV] | Correction<br>factor<br>[dB] | Result<br>[dB] | Limits<br>[dBuV] | Margin<br>[dB] |
|-----|--------------------|-------------------------|------------------------------|----------------|------------------|----------------|
| 3   | 61.25              | 88.2                    | 21.7                         | 66.5           | 69.5             | 3.0            |
| 4   | 67.25              | 87.0                    | 22.0                         | 65.0           | 69.5             | 4.5            |

#### Audio signal

| Ch. | Frequency<br>[MHz] | Meter reading<br>[dBuV] | Correction<br>factor<br>[dB] | Result<br>[dB] | Limits<br>[dBuV] | Margin<br>[dB] |
|-----|--------------------|-------------------------|------------------------------|----------------|------------------|----------------|
| 3   | 56.75              | 74.0                    | 21.9                         | 52.1           | 56.5             | 4.4            |
|     | 65.75              | 73.0                    | 22.0                         | 51.0           | 56.5             | 5.5            |
| 4   | 62.75              | 73.4                    | 21.9                         | 51.5           | 56.5             | 5.0            |
|     | 71.75              | 72.0                    | 22.0                         | 50.0           | 56.5             | 6.5            |

## **RF output level**

UL Apex Co., LTD.  
YOKOWA EMC LAB.

|              |                           |               |                         |
|--------------|---------------------------|---------------|-------------------------|
| Company      | : Orion Electric Co.,Ltd. | Report Number | : 24KE0259-YW-1         |
| Equipment    | : DVD-RW/VCR              | Regulation    | : FCC Part15B Subpart B |
| Model number | : DVR-RT500-S             | Date          | : July 01,2004          |
| Power        | : AC 120 V / 60 Hz        | Temp./Humid   | : 24 /34%               |
| Description  | : VCR Playback + Rec.     | Engineer      | : Tsubasa Takayama      |

### Video signal

| Ch. | Frequency<br>[MHz] | Meter reading<br>[dBuV] | Correction<br>factor<br>[dB] | Result<br>[dB] | Limits<br>[dBuV] | Margin<br>[dB] |
|-----|--------------------|-------------------------|------------------------------|----------------|------------------|----------------|
| 3   | 61.25              | 88.0                    | 21.7                         | 66.3           | 69.5             | 3.2            |
| 4   | 67.25              | 87.3                    | 22.0                         | 65.3           | 69.5             | 4.2            |

### Audio signal

| Ch. | Frequency<br>[MHz] | Meter reading<br>[dBuV] | Correction<br>factor<br>[dB] | Result<br>[dB] | Limits<br>[dBuV] | Margin<br>[dB] |
|-----|--------------------|-------------------------|------------------------------|----------------|------------------|----------------|
| 3   | 56.75              | 73.7                    | 21.9                         | 51.8           | 56.5             | 4.7            |
|     | 65.75              | 72.5                    | 22.0                         | 50.5           | 56.5             | 6.0            |
| 4   | 62.75              | 73.0                    | 21.9                         | 51.1           | 56.5             | 5.4            |
|     | 71.75              | 72.2                    | 22.0                         | 50.2           | 56.5             | 6.3            |

## **RF output level**

UL Apex Co., LTD.  
YOKOWA EMC LAB.

|              |                           |               |                         |
|--------------|---------------------------|---------------|-------------------------|
| Company      | : Orion Electric Co.,Ltd. | Report Number | : 24KE0259-YW-1         |
| Equipment    | : DVD-RW/VCR              | Regulation    | : FCC Part15B Subpart B |
| Model number | : DVR-RT500-S             | Date          | : July 01,2004          |
| Power        | : AC 120 V / 60 Hz        | Temp./Humid   | : 24 /34%               |
| Description  | : DVD Play                | Engineer      | : Tsubasa Takayama      |

### Video signal

| Ch. | Frequency<br>[MHz] | Meter reading<br>[dBuV] | Correction<br>factor<br>[dB] | Result<br>[dB] | Limits<br>[dBuV] | Margin<br>[dB] |
|-----|--------------------|-------------------------|------------------------------|----------------|------------------|----------------|
| 3   | 61.25              | 87.6                    | 21.7                         | 65.9           | 69.5             | 3.6            |
| 4   | 67.25              | 87.5                    | 22.0                         | 65.5           | 69.5             | 4.0            |

### Audio signal

| Ch. | Frequency<br>[MHz] | Meter reading<br>[dBuV] | Correction<br>factor<br>[dB] | Result<br>[dB] | Limits<br>[dBuV] | Margin<br>[dB] |
|-----|--------------------|-------------------------|------------------------------|----------------|------------------|----------------|
| 3   | 56.75              | 74.8                    | 21.9                         | 52.9           | 56.5             | 3.6            |
|     | 65.75              | 73.4                    | 22.0                         | 51.4           | 56.5             | 5.1            |
| 4   | 62.75              | 74.1                    | 21.9                         | 52.2           | 56.5             | 4.3            |
|     | 71.75              | 72.8                    | 22.0                         | 50.8           | 56.5             | 5.7            |

# DATA OF RF SUPRIIOUS TEST

UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.  
EQUIPMENT : DVD-RW/VCR  
MODEL : DVR-RT500-S  
TEMP./HUMID. : 23 /43%

REPORT NO : 24KE0259-YW-1  
DATE : July 1,2004  
REGULATION : FCC Part15 Subpart B  
TEST ENGINEER : Tsubasa Takayama

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

LIMIT : FCC 15B RF OUT SPURIOUS

| NO | FREQ<br>[MHz] | READING        |                | C.F<br>[dB] | RESULT         |                | LIMIT          |                | MARGIN     |            | PHASE |
|----|---------------|----------------|----------------|-------------|----------------|----------------|----------------|----------------|------------|------------|-------|
|    |               | QP<br>[dB μ V] | AV<br>[dB μ V] |             | QP<br>[dB μ V] | AV<br>[dB μ V] | QP<br>[dB μ V] | AV<br>[dB μ V] | QP<br>[dB] | AV<br>[dB] |       |
| 1  | 36.3600       | 41.9           | ----           | -22.2       | 19.7           | ----           | 39.5           | ----           | 19.8       | ----       | -     |
| 2  | 43.5000       | 46.7           | ----           | -22.1       | 24.6           | ----           | 39.5           | ----           | 14.9       | ----       | -     |
| 3  | 50.7100       | 46.5           | ----           | -22.2       | 24.3           | ----           | 39.5           | ----           | 15.2       | ----       | -     |
| 4  | 86.4300       | 36.0           | ----           | -22.0       | 14.0           | ----           | 39.5           | ----           | 25.5       | ----       | -     |
| 5  | 122.7100      | 37.4           | ----           | -21.8       | 15.6           | ----           | 39.5           | ----           | 23.9       | ----       | -     |
| 6  | 735.6000      | 35.0           | ----           | -21.8       | 13.2           | ----           | 39.5           | ----           | 26.3       | ----       | -     |

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

# DATA OF RF SUPRIIOUS TEST

UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.  
EQUIPMENT : DVD-RW/VCR  
MODEL : DVR-RT500-S  
TEMP./HUMID. : 23 /43%

REPORT NO : 24KE0259-YW-1  
DATE : July 1,2004  
REGULATION : FCC Part15 Subpart B  
TEST ENGINEER : Tsubasa Takayama

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

LIMIT : FCC 15B RF OUT SPURIOUS

| NO | FREQ<br>[MHz] | READING        |                | C.F<br>[dB] | RESULT         |                | LIMIT          |                | MARGIN     |            | PHASE |
|----|---------------|----------------|----------------|-------------|----------------|----------------|----------------|----------------|------------|------------|-------|
|    |               | QP<br>[dB μ V] | AV<br>[dB μ V] |             | QP<br>[dB μ V] | AV<br>[dB μ V] | QP<br>[dB μ V] | AV<br>[dB μ V] | QP<br>[dB] | AV<br>[dB] |       |
| 1  | 32.6400       | 35.8           | ----           | -22.2       | 13.6           | ----           | 39.5           | ----           | 25.9       | ----       | -     |
| 2  | 55.3600       | 47.0           | ----           | -22.1       | 24.9           | ----           | 39.5           | ----           | 14.6       | ----       | -     |
| 3  | 90.0300       | 29.2           | ----           | -22.0       | 7.2            | ----           | 39.5           | ----           | 32.3       | ----       | -     |
| 4  | 122.7100      | 37.7           | ----           | -21.8       | 15.9           | ----           | 39.5           | ----           | 23.6       | ----       | -     |
| 5  | 368.3000      | 30.3           | ----           | -22.2       | 8.1            | ----           | 39.5           | ----           | 31.4       | ----       | -     |
| 6  | 613.4000      | 31.4           | ----           | -21.9       | 9.5            | ----           | 39.5           | ----           | 30.0       | ----       | -     |
| 7  | 735.6000      | 35.4           | ----           | -21.8       | 13.6           | ----           | 39.5           | ----           | 25.9       | ----       | -     |

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

# DATA OF RF SUPRIIOUS TEST

UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.  
EQUIPMENT : DVD-RW/VCR  
MODEL : DVR-RT500-S  
TEMP./HUMID. : 23 /43%

REPORT NO : 24KE0259-YW-1  
DATE : July 1,2004  
REGULATION : FCC Part15 Subpart B  
TEST ENGINEER : Tsubasa Takayama

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

LIMIT : FCC 15B RF OUT SPURIOUS

| NO | FREQ<br>[MHz] | READING        |                | C.F<br>[dB] | RESULT         |                | LIMIT          |                | MARGIN     |            | PHASE |
|----|---------------|----------------|----------------|-------------|----------------|----------------|----------------|----------------|------------|------------|-------|
|    |               | QP<br>[dB μ V] | AV<br>[dB μ V] |             | QP<br>[dB μ V] | AV<br>[dB μ V] | QP<br>[dB μ V] | AV<br>[dB μ V] | QP<br>[dB] | AV<br>[dB] |       |
| 1  | 47.8600       | 36.4           | ----           | -22.2       | 14.2           | ----           | 39.5           | ----           | 25.3       | ----       | -     |
| 2  | 75.0000       | 35.0           | ----           | -21.9       | 13.1           | ----           | 39.5           | ----           | 26.4       | ----       | -     |
| 3  | 122.7100      | 37.1           | ----           | -21.8       | 15.3           | ----           | 39.5           | ----           | 24.2       | ----       | -     |
| 4  | 367.4000      | 27.8           | ----           | -22.2       | 5.6            | ----           | 39.5           | ----           | 33.9       | ----       | -     |
| 5  | 612.3000      | 28.6           | ----           | -21.8       | 6.8            | ----           | 39.5           | ----           | 32.7       | ----       | -     |
| 6  | 734.7000      | 34.6           | ----           | -21.8       | 12.8           | ----           | 39.5           | ----           | 26.7       | ----       | -     |

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

# DATA OF RF SUPRIIOUS TEST

UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.  
EQUIPMENT : DVD-RW/VCR  
MODEL : DVR-RT500-S  
TEMP./HUMID. : 23 /43%

REPORT NO : 24KE0259-YW-1  
DATE : July 1,2004  
REGULATION : FCC Part15 Subpart B  
TEST ENGINEER : Tsubasa Takayama

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

LIMIT : FCC 15B RF OUT SPURIOUS

| NO | FREQ<br>[MHz] | READING        |                | C.F<br>[dB] | RESULT         |                | LIMIT          |                | MARGIN     |            | PHASE |
|----|---------------|----------------|----------------|-------------|----------------|----------------|----------------|----------------|------------|------------|-------|
|    |               | QP<br>[dB μ V] | AV<br>[dB μ V] |             | QP<br>[dB μ V] | AV<br>[dB μ V] | QP<br>[dB μ V] | AV<br>[dB μ V] | QP<br>[dB] | AV<br>[dB] |       |
| 1  | 48.0000       | 36.8           | ----           | -22.2       | 14.6           | ----           | 39.5           | ----           | 24.9       | ----       | -     |
| 2  | 75.0000       | 35.7           | ----           | -21.9       | 13.8           | ----           | 39.5           | ----           | 25.7       | ----       | -     |
| 3  | 122.5700      | 37.6           | ----           | -21.8       | 15.8           | ----           | 39.5           | ----           | 23.7       | ----       | -     |
| 4  | 183.8600      | 28.5           | ----           | -21.7       | 6.8            | ----           | 39.5           | ----           | 32.7       | ----       | -     |
| 5  | 245.0000      | 27.5           | ----           | -21.8       | 5.7            | ----           | 39.5           | ----           | 33.8       | ----       | -     |
| 6  | 612.3000      | 27.7           | ----           | -21.8       | 5.9            | ----           | 39.5           | ----           | 33.6       | ----       | -     |
| 7  | 734.7000      | 35.2           | ----           | -21.8       | 13.4           | ----           | 39.5           | ----           | 26.1       | ----       | -     |

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

# DATA OF RF SUPRIIOUS TEST

UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.  
EQUIPMENT : DVD-RW/VCR  
MODEL : DVR-RT500-S  
TEMP./HUMID. : 23 /43%

REPORT NO : 24KE0259-YW-1  
DATE : July 1,2004  
REGULATION : FCC Part15 Subpart B  
TEST ENGINEER : Tsubasa Takayama

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

LIMIT : FCC 15B RF OUT SPURIOUS

| NO | FREQ<br>[MHz] | READING        |                | C.F<br>[dB] | RESULT         |                | LIMIT          |                | MARGIN     |            | PHASE |
|----|---------------|----------------|----------------|-------------|----------------|----------------|----------------|----------------|------------|------------|-------|
|    |               | QP<br>[dB μ V] | AV<br>[dB μ V] |             | QP<br>[dB μ V] | AV<br>[dB μ V] | QP<br>[dB μ V] | AV<br>[dB μ V] | QP<br>[dB] | AV<br>[dB] |       |
| 1  | 32.7900       | 36.4           | ----           | -22.2       | 14.2           | ----           | 39.5           | ----           | 25.3       | ----       | -     |
| 2  | 54.2900       | 38.1           | ----           | -22.1       | 16.0           | ----           | 39.5           | ----           | 23.5       | ----       | -     |
| 3  | 90.0300       | 30.5           | ----           | -22.0       | 8.5            | ----           | 39.5           | ----           | 31.0       | ----       | -     |
| 4  | 122.7100      | 37.4           | ----           | -21.8       | 15.6           | ----           | 39.5           | ----           | 23.9       | ----       | -     |
| 5  | 184.0000      | 30.6           | ----           | -21.7       | 8.9            | ----           | 39.5           | ----           | 30.6       | ----       | -     |
| 6  | 368.3000      | 30.3           | ----           | -22.2       | 8.1            | ----           | 39.5           | ----           | 31.4       | ----       | -     |
| 7  | 657.7000      | 31.8           | ----           | -21.7       | 10.1           | ----           | 39.5           | ----           | 29.4       | ----       | -     |
| 8  | 735.6000      | 35.3           | ----           | -21.8       | 13.5           | ----           | 39.5           | ----           | 26.0       | ----       | -     |

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

# DATA OF RF SUPRIIOUS TEST

UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.  
EQUIPMENT : DVD-RW/VCR  
MODEL : DVR-RT500-S  
TEMP./HUMID. : 23 /43%

REPORT NO : 24KE0259-YW-1  
DATE : July 1,2004  
REGULATION : FCC Part15 Subpart B  
TEST ENGINEER : Tsubasa Takayama

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

LIMIT : FCC 15B RF OUT SPURIOUS

| NO | FREQ<br>[MHz] | READING        |                | C.F<br>[dB] | RESULT         |                | LIMIT          |                | MARGIN     |            | PHASE |
|----|---------------|----------------|----------------|-------------|----------------|----------------|----------------|----------------|------------|------------|-------|
|    |               | QP<br>[dB μ V] | AV<br>[dB μ V] |             | QP<br>[dB μ V] | AV<br>[dB μ V] | QP<br>[dB μ V] | AV<br>[dB μ V] | QP<br>[dB] | AV<br>[dB] |       |
| 1  | 47.8600       | 36.2           | ----           | -22.2       | 14.0           | ----           | 39.5           | ----           | 25.5       | ----       | -     |
| 2  | 75.0000       | 35.3           | ----           | -21.9       | 13.4           | ----           | 39.5           | ----           | 26.1       | ----       | -     |
| 3  | 122.5700      | 35.9           | ----           | -21.8       | 14.1           | ----           | 39.5           | ----           | 25.4       | ----       | -     |
| 4  | 183.8600      | 32.2           | ----           | -21.7       | 10.5           | ----           | 39.5           | ----           | 29.0       | ----       | -     |
| 5  | 657.7000      | 31.7           | ----           | -21.7       | 10.0           | ----           | 39.5           | ----           | 29.5       | ----       | -     |
| 6  | 735.6000      | 34.3           | ----           | -21.8       | 12.5           | ----           | 39.5           | ----           | 27.1       | ----       | -     |

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

# DATA OF RF SUPRIIOUS TEST

UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.  
EQUIPMENT : DVD-RW/VCR  
MODEL : DVR-RT500-S  
TEMP./HUMID. : 23 /43%

REPORT NO : 24KE0259-YW-1  
DATE : July 1,2004  
REGULATION : FCC Part15 Subpart B  
TEST ENGINEER : Tsubasa Takayama

OPERATION MODE : VCR Playback+Rec : 3ch

LIMIT : FCC 15B RF OUT SPURIOUS

| NO | FREQ<br>[MHz] | READING        |                | C.F<br>[dB] | RESULT         |                | LIMIT          |                | MARGIN     |            | PHASE |
|----|---------------|----------------|----------------|-------------|----------------|----------------|----------------|----------------|------------|------------|-------|
|    |               | QP<br>[dB μ V] | AV<br>[dB μ V] |             | QP<br>[dB μ V] | AV<br>[dB μ V] | QP<br>[dB μ V] | AV<br>[dB μ V] | QP<br>[dB] | AV<br>[dB] |       |
| 1  | 32.7100       | 36.4           | ----           | -22.2       | 14.2           | ----           | 39.5           | ----           | 25.3       | ----       | -     |
| 2  | 54.5000       | 40.3           | ----           | -22.1       | 18.2           | ----           | 39.5           | ----           | 21.3       | ----       | -     |
| 3  | 75.0000       | 34.7           | ----           | -21.9       | 12.8           | ----           | 39.5           | ----           | 26.7       | ----       | -     |
| 4  | 90.0000       | 31.2           | ----           | -22.0       | 9.2            | ----           | 39.5           | ----           | 30.3       | ----       | -     |
| 5  | 122.7100      | 37.5           | ----           | -21.8       | 15.7           | ----           | 39.5           | ----           | 23.8       | ----       | -     |
| 6  | 184.0000      | 32.1           | ----           | -21.7       | 10.4           | ----           | 39.5           | ----           | 29.1       | ----       | -     |
| 7  | 735.6000      | 36.5           | ----           | -21.8       | 14.7           | ----           | 39.5           | ----           | 24.8       | ----       | -     |

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

# DATA OF RF SUPRIIOUS TEST

UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.  
EQUIPMENT : DVD-RW/VCR  
MODEL : DVR-RT500-S  
TEMP./HUMID. : 23 /43%

REPORT NO : 24KE0259-YW-1  
DATE : July 1,2004  
REGULATION : FCC Part15 Subpart B  
TEST ENGINEER : Tsubasa Takayama

OPERATION MODE : DVD Play : 3ch

LIMIT : FCC 15B RF OUT SPURIOUS

| NO | FREQ<br>[MHz] | READING        |                | C.F<br>[dB] | RESULT         |                | LIMIT          |                | MARGIN     |            | PHASE |
|----|---------------|----------------|----------------|-------------|----------------|----------------|----------------|----------------|------------|------------|-------|
|    |               | QP<br>[dB μ V] | AV<br>[dB μ V] |             | QP<br>[dB μ V] | AV<br>[dB μ V] | QP<br>[dB μ V] | AV<br>[dB μ V] | QP<br>[dB] | AV<br>[dB] |       |
| 1  | 47.1400       | 40.1           | ----           | -22.1       | 18.0           | ----           | 39.5           | ----           | 21.5       | ----       | -     |
| 2  | 54.3600       | 47.1           | ----           | -22.1       | 25.0           | ----           | 39.5           | ----           | 14.5       | ----       | -     |
| 3  | 68.6400       | 45.6           | ----           | -22.0       | 23.6           | ----           | 39.5           | ----           | 15.9       | ----       | -     |
| 4  | 122.8000      | 37.3           | ----           | -21.8       | 15.5           | ----           | 39.5           | ----           | 24.0       | ----       | -     |
| 5  | 184.0700      | 27.7           | ----           | -21.7       | 6.0            | ----           | 39.5           | ----           | 33.5       | ----       | -     |
| 6  | 613.4000      | 31.8           | ----           | -21.9       | 9.9            | ----           | 39.5           | ----           | 29.6       | ----       | -     |
| 7  | 735.6000      | 34.6           | ----           | -21.8       | 12.8           | ----           | 39.5           | ----           | 26.7       | ----       | -     |
| 8  | 791.7000      | 34.9           | ----           | -21.2       | 13.7           | ----           | 39.5           | ----           | 25.8       | ----       | -     |
| 9  | 858.6000      | 33.5           | ----           | -20.9       | 12.6           | ----           | 39.5           | ----           | 26.9       | ----       | -     |

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

# DATA OF RF SUPRIIOUS TEST

UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.  
EQUIPMENT : DVD-RW/VCR  
MODEL : DVR-RT500-S  
TEMP./HUMID. : 23 /43%

REPORT NO : 24KE0259-YW-1  
DATE : July 1,2004  
REGULATION : FCC Part15 Subpart B  
TEST ENGINEER : Tsubasa Takayama

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

LIMIT : FCC 15B RF OUT SPURIOUS

| NO | FREQ<br>[MHz] | READING        |                | C.F<br>[dB] | RESULT         |                | LIMIT          |                | MARGIN     |            | PHASE |
|----|---------------|----------------|----------------|-------------|----------------|----------------|----------------|----------------|------------|------------|-------|
|    |               | QP<br>[dB μ V] | AV<br>[dB μ V] |             | QP<br>[dB μ V] | AV<br>[dB μ V] | QP<br>[dB μ V] | AV<br>[dB μ V] | QP<br>[dB] | AV<br>[dB] |       |
| 1  | 49.5700       | 46.8           | ----           | -22.2       | 24.6           | ----           | 39.5           | ----           | 14.9       | ----       | -     |
| 2  | 56.7900       | 47.2           | ----           | -21.9       | 25.3           | ----           | 39.5           | ----           | 14.2       | ----       | -     |
| 3  | 85.2300       | 41.5           | ----           | -22.0       | 19.5           | ----           | 39.5           | ----           | 20.0       | ----       | -     |
| 4  | 134.8000      | 34.4           | ----           | -21.7       | 12.7           | ----           | 39.5           | ----           | 26.8       | ----       | -     |
| 5  | 201.9000      | 29.3           | ----           | -21.6       | 7.7            | ----           | 39.5           | ----           | 31.8       | ----       | -     |
| 6  | 404.3000      | 30.6           | ----           | -22.3       | 8.3            | ----           | 39.5           | ----           | 31.2       | ----       | -     |
| 7  | 673.1000      | 34.6           | ----           | -21.6       | 13.0           | ----           | 39.5           | ----           | 26.5       | ----       | -     |
| 8  | 806.7000      | 33.3           | ----           | -21.1       | 12.2           | ----           | 39.5           | ----           | 27.3       | ----       | -     |

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

# DATA OF RF SUPRIIOUS TEST

UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.  
EQUIPMENT : DVD-RW/VCR  
MODEL : DVR-RT500-S  
TEMP./HUMID. : 23 /43%

REPORT NO : 24KE0259-YW-1  
DATE : July 1,2004  
REGULATION : FCC Part15 Subpart B  
TEST ENGINEER : Tsubasa Takayama

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

LIMIT : FCC 15B RF OUT SPURIOUS

| NO | FREQ<br>[MHz] | READING        |                | C.F<br>[dB] | RESULT         |                | LIMIT          |                | MARGIN     |            | PHASE |
|----|---------------|----------------|----------------|-------------|----------------|----------------|----------------|----------------|------------|------------|-------|
|    |               | QP<br>[dB μ V] | AV<br>[dB μ V] |             | QP<br>[dB μ V] | AV<br>[dB μ V] | QP<br>[dB μ V] | AV<br>[dB μ V] | QP<br>[dB] | AV<br>[dB] |       |
| 1  | 38.6400       | 36.9           | ----           | -22.1       | 14.8           | ----           | 39.5           | ----           | 24.7       | ----       | -     |
| 2  | 55.3600       | 47.4           | ----           | -22.1       | 25.3           | ----           | 39.5           | ----           | 14.2       | ----       | -     |
| 3  | 80.8000       | 33.3           | ----           | -22.0       | 11.3           | ----           | 39.5           | ----           | 28.2       | ----       | -     |
| 4  | 134.7000      | 35.3           | ----           | -21.7       | 13.6           | ----           | 39.5           | ----           | 25.9       | ----       | -     |
| 5  | 404.3000      | 31.4           | ----           | -22.3       | 9.1            | ----           | 39.5           | ----           | 30.4       | ----       | -     |
| 6  | 673.4000      | 34.4           | ----           | -21.6       | 12.8           | ----           | 39.5           | ----           | 26.7       | ----       | -     |
| 7  | 808.0000      | 35.4           | ----           | -21.1       | 14.3           | ----           | 39.5           | ----           | 25.2       | ----       | -     |

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

# DATA OF RF SUPRIOUS TEST

UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.  
EQUIPMENT : DVD-RW/VCR  
MODEL : DVR-RT500-S  
TEMP./HUMID. : 23 /43%

REPORT NO : 24KE0259-YW-1  
DATE : July 1,2004  
REGULATION : FCC Part15 Subpart B  
TEST ENGINEER : Tsubasa Takayama

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

LIMIT : FCC 15B RF OUT SPURIOUS

| NO | FREQ<br>[MHz] | READING        |                | C.F<br>[dB] | RESULT         |                | LIMIT          |                | MARGIN     |            | PHASE |
|----|---------------|----------------|----------------|-------------|----------------|----------------|----------------|----------------|------------|------------|-------|
|    |               | QP<br>[dB μ V] | AV<br>[dB μ V] |             | QP<br>[dB μ V] | AV<br>[dB μ V] | QP<br>[dB μ V] | AV<br>[dB μ V] | QP<br>[dB] | AV<br>[dB] |       |
| 1  | 38.7900       | 37.8           | ----           | -22.1       | 15.7           | ----           | 39.5           | ----           | 23.9       | ----       | -     |
| 2  | 53.9300       | 38.4           | ----           | -22.1       | 16.3           | ----           | 39.5           | ----           | 23.2       | ----       | -     |
| 3  | 80.8000       | 34.7           | ----           | -22.0       | 12.7           | ----           | 39.5           | ----           | 26.8       | ----       | -     |
| 4  | 134.8000      | 35.1           | ----           | -21.7       | 13.4           | ----           | 39.5           | ----           | 26.1       | ----       | -     |
| 5  | 201.7000      | 28.8           | ----           | -21.6       | 7.2            | ----           | 39.5           | ----           | 32.3       | ----       | -     |
| 6  | 404.3000      | 29.9           | ----           | -22.3       | 7.6            | ----           | 39.5           | ----           | 31.9       | ----       | -     |
| 7  | 673.4000      | 34.2           | ----           | -21.6       | 12.6           | ----           | 39.5           | ----           | 26.9       | ----       | -     |
| 8  | 707.7000      | 35.3           | ----           | -21.6       | 13.7           | ----           | 39.5           | ----           | 25.8       | ----       | -     |
| 9  | 806.7000      | 33.8           | ----           | -21.1       | 12.7           | ----           | 39.5           | ----           | 26.8       | ----       | -     |

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

# DATA OF RF SUPRIIOUS TEST

UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.  
EQUIPMENT : DVD-RW/VCR  
MODEL : DVR-RT500-S  
TEMP./HUMID. : 23 /43%

REPORT NO : 24KE0259-YW-1  
DATE : July 1,2004  
REGULATION : FCC Part15 Subpart B  
TEST ENGINEER : Tsubasa Takayama

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

LIMIT : FCC 15B RF OUT SPURIOUS

| NO | FREQ<br>[MHz] | READING        |                | C.F<br>[dB] | RESULT         |                | LIMIT          |                | MARGIN     |            | PHASE |
|----|---------------|----------------|----------------|-------------|----------------|----------------|----------------|----------------|------------|------------|-------|
|    |               | QP<br>[dB μ V] | AV<br>[dB μ V] |             | QP<br>[dB μ V] | AV<br>[dB μ V] | QP<br>[dB μ V] | AV<br>[dB μ V] | QP<br>[dB] | AV<br>[dB] |       |
| 1  | 38.7900       | 36.6           | ----           | -22.1       | 14.5           | ----           | 39.5           | ----           | 25.0       | ----       | -     |
| 2  | 59.1400       | 40.9           | ----           | -21.7       | 19.2           | ----           | 39.5           | ----           | 20.3       | ----       | -     |
| 3  | 80.8000       | 34.6           | ----           | -22.0       | 12.6           | ----           | 39.5           | ----           | 26.9       | ----       | -     |
| 4  | 134.8000      | 35.0           | ----           | -21.7       | 13.3           | ----           | 39.5           | ----           | 26.2       | ----       | -     |
| 5  | 201.9000      | 29.7           | ----           | -21.6       | 8.1            | ----           | 39.5           | ----           | 31.4       | ----       | -     |
| 6  | 404.3000      | 31.1           | ----           | -22.3       | 8.8            | ----           | 39.5           | ----           | 30.7       | ----       | -     |
| 7  | 673.1000      | 34.1           | ----           | -21.6       | 12.5           | ----           | 39.5           | ----           | 27.0       | ----       | -     |
| 8  | 707.7000      | 35.6           | ----           | -21.6       | 14.0           | ----           | 39.5           | ----           | 25.5       | ----       | -     |
| 9  | 808.0000      | 35.5           | ----           | -21.1       | 14.4           | ----           | 39.5           | ----           | 25.1       | ----       | -     |

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

# DATA OF RF SUPRIIOUS TEST

UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.  
EQUIPMENT : DVD-RW/VCR  
MODEL : DVR-RT500-S  
TEMP./HUMID. : 23 /43%

REPORT NO : 24KE0259-YW-1  
DATE : July 1,2004  
REGULATION : FCC Part15 Subpart B  
TEST ENGINEER : Tsubasa Takayama

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

LIMIT : FCC 15B RF OUT SPURIOUS

| NO | FREQ<br>[MHz] | READING        |                | C.F<br>[dB] | RESULT         |                | LIMIT          |                | MARGIN     |            | PHASE |
|----|---------------|----------------|----------------|-------------|----------------|----------------|----------------|----------------|------------|------------|-------|
|    |               | QP<br>[dB μ V] | AV<br>[dB μ V] |             | QP<br>[dB μ V] | AV<br>[dB μ V] | QP<br>[dB μ V] | AV<br>[dB μ V] | QP<br>[dB] | AV<br>[dB] |       |
| 1  | 38.7900       | 37.5           | ----           | -22.1       | 15.4           | ----           | 39.5           | ----           | 24.1       | ----       | -     |
| 2  | 54.0000       | 38.4           | ----           | -22.1       | 16.3           | ----           | 39.5           | ----           | 23.2       | ----       | -     |
| 3  | 80.8000       | 35.2           | ----           | -22.0       | 13.2           | ----           | 39.5           | ----           | 26.3       | ----       | -     |
| 4  | 134.7100      | 36.0           | ----           | -21.7       | 14.3           | ----           | 39.5           | ----           | 25.2       | ----       | -     |
| 5  | 202.0000      | 31.0           | ----           | -21.6       | 9.4            | ----           | 39.5           | ----           | 30.1       | ----       | -     |
| 6  | 404.3000      | 30.5           | ----           | -22.3       | 8.2            | ----           | 39.5           | ----           | 31.3       | ----       | -     |
| 7  | 673.4000      | 33.4           | ----           | -21.6       | 11.8           | ----           | 39.5           | ----           | 27.7       | ----       | -     |
| 8  | 707.7000      | 33.8           | ----           | -21.6       | 12.2           | ----           | 39.5           | ----           | 27.4       | ----       | -     |
| 9  | 808.0000      | 33.7           | ----           | -21.1       | 12.6           | ----           | 39.5           | ----           | 26.9       | ----       | -     |

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

# DATA OF RF SUPRIIOUS TEST

UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.  
EQUIPMENT : DVD-RW/VCR  
MODEL : DVR-RT500-S  
TEMP./HUMID. : 23 /43%

REPORT NO : 24KE0259-YW-1  
DATE : July 1,2004  
REGULATION : FCC Part15 Subpart B  
TEST ENGINEER : Tsubasa Takayama

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

LIMIT : FCC 15B RF OUT SPURIOUS

| NO | FREQ<br>[MHz] | READING        |                | C.F<br>[dB] | RESULT         |                | LIMIT          |                | MARGIN     |            | PHASE |
|----|---------------|----------------|----------------|-------------|----------------|----------------|----------------|----------------|------------|------------|-------|
|    |               | QP<br>[dB μ V] | AV<br>[dB μ V] |             | QP<br>[dB μ V] | AV<br>[dB μ V] | QP<br>[dB μ V] | AV<br>[dB μ V] | QP<br>[dB] | AV<br>[dB] |       |
| 1  | 38.8000       | 36.5           | ----           | -22.1       | 14.4           | ----           | 39.5           | ----           | 25.1       | ----       | -     |
| 2  | 59.1400       | 41.7           | ----           | -21.7       | 20.0           | ----           | 39.5           | ----           | 19.5       | ----       | -     |
| 3  | 75.7900       | 39.8           | ----           | -22.0       | 17.8           | ----           | 39.5           | ----           | 21.7       | ----       | -     |
| 4  | 80.8000       | 33.6           | ----           | -22.0       | 11.6           | ----           | 39.5           | ----           | 27.9       | ----       | -     |
| 5  | 134.7100      | 36.0           | ----           | -21.7       | 14.3           | ----           | 39.5           | ----           | 25.2       | ----       | -     |
| 6  | 202.0000      | 30.4           | ----           | -21.6       | 8.8            | ----           | 39.5           | ----           | 30.7       | ----       | -     |
| 7  | 404.3000      | 29.9           | ----           | -22.3       | 7.6            | ----           | 39.5           | ----           | 31.9       | ----       | -     |
| 8  | 672.6000      | 32.6           | ----           | -21.6       | 11.0           | ----           | 39.5           | ----           | 28.5       | ----       | -     |
| 9  | 808.0000      | 35.0           | ----           | -21.1       | 13.9           | ----           | 39.5           | ----           | 25.6       | ----       | -     |

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

# DATA OF RF SUPRIIOUS TEST

UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.  
EQUIPMENT : DVD-RW/VCR  
MODEL : DVR-RT500-S  
TEMP./HUMID. : 23 /43%

REPORT NO : 24KE0259-YW-1  
DATE : July 1,2004  
REGULATION : FCC Part15 Subpart B  
TEST ENGINEER : Tsubasa Takayama

OPERATION MODE : VCR Playback+Rec : 4ch

LIMIT : FCC 15B RF OUT SPURIOUS

| NO | FREQ<br>[MHz] | READING        |                | C.F<br>[dB] | RESULT         |                | LIMIT          |                | MARGIN     |            | PHASE |
|----|---------------|----------------|----------------|-------------|----------------|----------------|----------------|----------------|------------|------------|-------|
|    |               | QP<br>[dB μ V] | AV<br>[dB μ V] |             | QP<br>[dB μ V] | AV<br>[dB μ V] | QP<br>[dB μ V] | AV<br>[dB μ V] | QP<br>[dB] | AV<br>[dB] |       |
| 1  | 38.7900       | 36.4           | ----           | -22.1       | 14.3           | ----           | 39.5           | ----           | 25.2       | ----       | -     |
| 2  | 60.3600       | 39.4           | ----           | -21.6       | 17.8           | ----           | 39.5           | ----           | 21.7       | ----       | -     |
| 3  | 74.7100       | 37.6           | ----           | -21.9       | 15.7           | ----           | 39.5           | ----           | 23.8       | ----       | -     |
| 4  | 80.8300       | 33.9           | ----           | -22.0       | 11.9           | ----           | 39.5           | ----           | 27.6       | ----       | -     |
| 5  | 134.7100      | 35.1           | ----           | -21.7       | 13.4           | ----           | 39.5           | ----           | 26.1       | ----       | -     |
| 6  | 404.3000      | 31.0           | ----           | -22.3       | 8.7            | ----           | 39.5           | ----           | 30.8       | ----       | -     |
| 7  | 673.1000      | 34.6           | ----           | -21.6       | 13.0           | ----           | 39.5           | ----           | 26.5       | ----       | -     |
| 8  | 707.7000      | 35.2           | ----           | -21.6       | 13.6           | ----           | 39.5           | ----           | 25.9       | ----       | -     |
| 9  | 808.0000      | 35.4           | ----           | -21.1       | 14.3           | ----           | 39.5           | ----           | 25.2       | ----       | -     |

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

# DATA OF RF SUPRIIOUS TEST

UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.  
EQUIPMENT : DVD-RW/VCR  
MODEL : DVR-RT500-S  
TEMP./HUMID. : 23 /43%

REPORT NO : 24KE0259-YW-1  
DATE : July 1,2004  
REGULATION : FCC Part15 Subpart B  
TEST ENGINEER : Tsubasa Takayama

OPERATION MODE : DVD Play : 4ch

LIMIT : FCC 15B RF OUT SPURIOUS

| NO | FREQ<br>[MHz] | READING        |                | C.F<br>[dB] | RESULT         |                | LIMIT          |                | MARGIN     |            | PHASE |
|----|---------------|----------------|----------------|-------------|----------------|----------------|----------------|----------------|------------|------------|-------|
|    |               | QP<br>[dB μ V] | AV<br>[dB μ V] |             | QP<br>[dB μ V] | AV<br>[dB μ V] | QP<br>[dB μ V] | AV<br>[dB μ V] | QP<br>[dB] | AV<br>[dB] |       |
| 1  | 56.7900       | 41.9           | ----           | -21.9       | 20.0           | ----           | 39.5           | ----           | 19.5       | ----       | -     |
| 2  | 60.3600       | 46.4           | ----           | -21.6       | 24.8           | ----           | 39.5           | ----           | 14.7       | ----       | -     |
| 3  | 74.6400       | 44.7           | ----           | -21.9       | 22.8           | ----           | 39.5           | ----           | 16.7       | ----       | -     |
| 4  | 81.6600       | 35.3           | ----           | -22.0       | 13.3           | ----           | 39.5           | ----           | 26.3       | ----       | -     |
| 5  | 134.7000      | 35.7           | ----           | -21.7       | 14.0           | ----           | 39.5           | ----           | 25.5       | ----       | -     |
| 6  | 202.0000      | 30.7           | ----           | -21.6       | 9.1            | ----           | 39.5           | ----           | 30.4       | ----       | -     |
| 7  | 404.0000      | 27.6           | ----           | -22.3       | 5.3            | ----           | 39.5           | ----           | 34.2       | ----       | -     |
| 8  | 673.4000      | 33.3           | ----           | -21.6       | 11.7           | ----           | 39.5           | ----           | 27.8       | ----       | -     |
| 9  | 707.7000      | 34.7           | ----           | -21.6       | 13.1           | ----           | 39.5           | ----           | 26.4       | ----       | -     |
| 10 | 808.0000      | 33.4           | ----           | -21.1       | 12.3           | ----           | 39.5           | ----           | 27.2       | ----       | -     |
| 11 | 910.4000      | 32.1           | ----           | -20.7       | 11.4           | ----           | 39.5           | ----           | 28.1       | ----       | -     |

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-RW/VCR  
MODEL : DVR-RT500-S  
TEMP./HUMID. : 23 /43%

REPORT NO : 24KE0259-YW-1  
DATE : July 1,2004  
REGULATION : FCC Part15 Subpart B  
TEST ENGINEER : Tsubasa Takayama

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

LIMIT : FCC15B ANTENNA TRANSFER SWITCH

| NO | FREQ<br>[MHz] | READING        |                | C.F<br>[dB] | RESULT         |                | LIMIT          |                | MARGIN     |            | PHASE |
|----|---------------|----------------|----------------|-------------|----------------|----------------|----------------|----------------|------------|------------|-------|
|    |               | QP<br>[dB μ V] | AV<br>[dB μ V] |             | QP<br>[dB μ V] | AV<br>[dB μ V] | QP<br>[dB μ V] | AV<br>[dB μ V] | QP<br>[dB] | AV<br>[dB] |       |
| 1  | 61.2500       | 24.0           | ----           | -21.7       | 2.3            | ----           | 9.5            | ----           | 7.2        | ----       | -     |
| 2  | 122.5000      | 28.4           | ----           | -21.8       | 6.6            | ----           | 9.5            | ----           | 2.9        | ----       | -     |
| 3  | 183.7500      | 22.0           | ----           | -21.7       | 0.3            | ----           | 9.5            | ----           | 9.2        | ----       | -     |
| 4  | 245.0000      | 26.9           | ----           | -21.8       | 5.1            | ----           | 9.5            | ----           | 4.4        | ----       | -     |
| 5  | 306.2500      | 22.4           | ----           | -22.0       | 0.4            | ----           | 9.5            | ----           | 9.1        | ----       | -     |
| 6  | 367.5000      | 22.5           | ----           | -22.2       | 0.3            | ----           | 9.5            | ----           | 9.2        | ----       | -     |

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-RW/VCR  
MODEL : DVR-RT500-S  
TEMP./HUMID. : 23 /43%

REPORT NO : 24KE0259-YW-1  
DATE : July 1,2004  
REGULATION : FCC Part15 Subpart B  
TEST ENGINEER : Tsubasa Takayama

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

LIMIT : FCC15B ANTENNA TRANSFER SWITCH

| NO | FREQ<br>[MHz] | READING        |                | C.F<br>[dB] | RESULT         |                | LIMIT          |                | MARGIN     |            | PHASE |
|----|---------------|----------------|----------------|-------------|----------------|----------------|----------------|----------------|------------|------------|-------|
|    |               | QP<br>[dB μ V] | AV<br>[dB μ V] |             | QP<br>[dB μ V] | AV<br>[dB μ V] | QP<br>[dB μ V] | AV<br>[dB μ V] | QP<br>[dB] | AV<br>[dB] |       |
| 1  | 61.2500       | 24.0           | ----           | -21.7       | 2.3            | ----           | 9.5            | ----           | 7.2        | ----       | -     |
| 2  | 122.5000      | 27.8           | ----           | -21.8       | 6.0            | ----           | 9.5            | ----           | 3.5        | ----       | -     |
| 3  | 183.7500      | 22.1           | ----           | -21.7       | 0.4            | ----           | 9.5            | ----           | 9.1        | ----       | -     |
| 4  | 245.0000      | 26.5           | ----           | -21.8       | 4.7            | ----           | 9.5            | ----           | 4.8        | ----       | -     |
| 5  | 306.2500      | 22.4           | ----           | -22.0       | 0.4            | ----           | 9.5            | ----           | 9.1        | ----       | -     |
| 6  | 367.5000      | 23.1           | ----           | -22.2       | 0.9            | ----           | 9.5            | ----           | 8.6        | ----       | -     |

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-RW/VCR  
MODEL : DVR-RT500-S  
TEMP./HUMID. : 23 /43%

REPORT NO : 24KE0259-YW-1  
DATE : July 1,2004  
REGULATION : FCC Part15 Subpart B  
TEST ENGINEER : Tsubasa Takayama

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

LIMIT : FCC15B ANTENNA TRANSFER SWITCH

| NO | FREQ<br>[MHz] | READING        |                | C.F<br>[dB] | RESULT         |                | LIMIT          |                | MARGIN     |            | PHASE |
|----|---------------|----------------|----------------|-------------|----------------|----------------|----------------|----------------|------------|------------|-------|
|    |               | QP<br>[dB μ V] | AV<br>[dB μ V] |             | QP<br>[dB μ V] | AV<br>[dB μ V] | QP<br>[dB μ V] | AV<br>[dB μ V] | QP<br>[dB] | AV<br>[dB] |       |
| 1  | 61.2500       | 24.0           | ----           | -21.7       | 2.3            | ----           | 9.5            | ----           | 7.2        | ----       | -     |
| 2  | 122.5000      | 28.2           | ----           | -21.8       | 6.4            | ----           | 9.5            | ----           | 3.1        | ----       | -     |
| 3  | 183.7500      | 22.1           | ----           | -21.7       | 0.4            | ----           | 9.5            | ----           | 9.1        | ----       | -     |
| 4  | 245.0000      | 26.7           | ----           | -21.8       | 4.9            | ----           | 9.5            | ----           | 4.6        | ----       | -     |
| 5  | 306.2500      | 22.1           | ----           | -22.0       | 0.1            | ----           | 9.5            | ----           | 9.4        | ----       | -     |
| 6  | 367.5000      | 22.6           | ----           | -22.2       | 0.4            | ----           | 9.5            | ----           | 9.1        | ----       | -     |

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-RW/VCR  
MODEL : DVR-RT500-S  
TEMP./HUMID. : 23 /43%

REPORT NO : 24KE0259-YW-1  
DATE : July 1,2004  
REGULATION : FCC Part15 Subpart B  
TEST ENGINEER : Tsubasa Takayama

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

LIMIT : FCC15B ANTENNA TRANSFER SWITCH

| NO | FREQ<br>[MHz] | READING        |                | C.F<br>[dB] | RESULT         |                | LIMIT          |                | MARGIN     |            | PHASE |
|----|---------------|----------------|----------------|-------------|----------------|----------------|----------------|----------------|------------|------------|-------|
|    |               | QP<br>[dB μ V] | AV<br>[dB μ V] |             | QP<br>[dB μ V] | AV<br>[dB μ V] | QP<br>[dB μ V] | AV<br>[dB μ V] | QP<br>[dB] | AV<br>[dB] |       |
| 1  | 61.2500       | 24.0           | ----           | -21.7       | 2.3            | ----           | 9.5            | ----           | 7.2        | ----       | -     |
| 2  | 122.5000      | 28.1           | ----           | -21.8       | 6.3            | ----           | 9.5            | ----           | 3.2        | ----       | -     |
| 3  | 183.7500      | 22.1           | ----           | -21.7       | 0.4            | ----           | 9.5            | ----           | 9.1        | ----       | -     |
| 4  | 245.0000      | 26.7           | ----           | -21.8       | 4.9            | ----           | 9.5            | ----           | 4.6        | ----       | -     |
| 5  | 306.2500      | 22.4           | ----           | -22.0       | 0.4            | ----           | 9.5            | ----           | 9.1        | ----       | -     |
| 6  | 367.5000      | 22.6           | ----           | -22.2       | 0.4            | ----           | 9.5            | ----           | 9.1        | ----       | -     |

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-RW/VCR  
MODEL : DVR-RT500-S  
TEMP./HUMID. : 23 /43%

REPORT NO : 24KE0259-YW-1  
DATE : July 1,2004  
REGULATION : FCC Part15 Subpart B  
TEST ENGINEER : Tsubasa Takayama

OPERATION MODE : VCR Playback+Rec : 3ch

LIMIT : FCC15B ANTENNA TRANSFER SWITCH

| NO | FREQ<br>[MHz] | READING        |                | C.F<br>[dB] | RESULT         |                | LIMIT          |                | MARGIN     |            | PHASE |
|----|---------------|----------------|----------------|-------------|----------------|----------------|----------------|----------------|------------|------------|-------|
|    |               | QP<br>[dB μ V] | AV<br>[dB μ V] |             | QP<br>[dB μ V] | AV<br>[dB μ V] | QP<br>[dB μ V] | AV<br>[dB μ V] | QP<br>[dB] | AV<br>[dB] |       |
| 1  | 61.2500       | 23.4           | ----           | -21.7       | 1.7            | ----           | 9.5            | ----           | 7.8        | ----       | -     |
| 2  | 122.5000      | 28.3           | ----           | -21.8       | 6.5            | ----           | 9.5            | ----           | 3.0        | ----       | -     |
| 3  | 183.7500      | 22.5           | ----           | -21.7       | 0.8            | ----           | 9.5            | ----           | 8.7        | ----       | -     |
| 4  | 245.0000      | 26.7           | ----           | -21.8       | 4.9            | ----           | 9.5            | ----           | 4.6        | ----       | -     |
| 5  | 306.2500      | 22.6           | ----           | -21.3       | 1.3            | ----           | 9.5            | ----           | 8.2        | ----       | -     |
| 6  | 367.5000      | 22.3           | ----           | -22.2       | 0.1            | ----           | 9.5            | ----           | 9.4        | ----       | -     |

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

# DATA OF ANTENNA TRANSFER SWITCH TEST

UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.  
EQUIPMENT : DVD-RW/VCR  
MODEL : DVR-RT500-S  
TEMP./HUMID. : 23 /43%

REPORT NO : 24KE0259-YW-1  
DATE : July 1,2004  
REGULATION : FCC Part15 Subpart B  
TEST ENGINEER : Tsubasa Takayama

OPERATION MODE : DVD Play : 3ch

LIMIT : FCC15B ANTENNA TRANSFER SWITCH

| NO | FREQ<br>[MHz] | READING        |                | C.F<br>[dB] | RESULT         |                | LIMIT          |                | MARGIN     |            | PHASE |
|----|---------------|----------------|----------------|-------------|----------------|----------------|----------------|----------------|------------|------------|-------|
|    |               | QP<br>[dB μ V] | AV<br>[dB μ V] |             | QP<br>[dB μ V] | AV<br>[dB μ V] | QP<br>[dB μ V] | AV<br>[dB μ V] | QP<br>[dB] | AV<br>[dB] |       |
| 1  | 61.2500       | 24.0           | ----           | -21.5       | 2.5            | ----           | 9.5            | ----           | 7.0        | ----       | -     |
| 2  | 122.5000      | 28.3           | ----           | -21.8       | 6.5            | ----           | 9.5            | ----           | 3.0        | ----       | -     |
| 3  | 183.7500      | 22.3           | ----           | -21.7       | 0.6            | ----           | 9.5            | ----           | 8.9        | ----       | -     |
| 4  | 245.0000      | 26.7           | ----           | -21.8       | 4.9            | ----           | 9.5            | ----           | 4.6        | ----       | -     |
| 5  | 306.2500      | 22.0           | ----           | -22.0       | 0.0            | ----           | 9.5            | ----           | 9.5        | ----       | -     |
| 6  | 367.5000      | 22.3           | ----           | -22.2       | 0.1            | ----           | 9.5            | ----           | 9.4        | ----       | -     |

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

# DATA OF ANTENNA TRANSFER SWITCH TEST

UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.  
EQUIPMENT : DVD-RW/VCR  
MODEL : DVR-RT500-S  
TEMP./HUMID. : 23 /43%

REPORT NO : 24KE0259-YW-1  
DATE : July 1,2004  
REGULATION : FCC Part15 Subpart B  
TEST ENGINEER : Tsubasa Takayama

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

LIMIT : FCC15B ANTENNA TRANSFER SWITCH

| NO | FREQ<br>[MHz] | READING        |                | C.F<br>[dB] | RESULT         |                | LIMIT          |                | MARGIN     |            | PHASE |
|----|---------------|----------------|----------------|-------------|----------------|----------------|----------------|----------------|------------|------------|-------|
|    |               | QP<br>[dB μ V] | AV<br>[dB μ V] |             | QP<br>[dB μ V] | AV<br>[dB μ V] | QP<br>[dB μ V] | AV<br>[dB μ V] | QP<br>[dB] | AV<br>[dB] |       |
| 1  | 67.2500       | 22.3           | ----           | -22.0       | 0.3            | ----           | 9.5            | ----           | 9.2        | ----       | -     |
| 2  | 134.5000      | 29.0           | ----           | -21.7       | 7.3            | ----           | 9.5            | ----           | 2.2        | ----       | -     |
| 3  | 201.7500      | 23.4           | ----           | -21.6       | 1.8            | ----           | 9.5            | ----           | 7.7        | ----       | -     |
| 4  | 269.0000      | 25.5           | ----           | -21.8       | 3.7            | ----           | 9.5            | ----           | 5.8        | ----       | -     |
| 5  | 336.2500      | 22.4           | ----           | -22.1       | 0.3            | ----           | 9.5            | ----           | 9.2        | ----       | -     |
| 6  | 403.5000      | 22.5           | ----           | -22.3       | 0.2            | ----           | 9.5            | ----           | 9.3        | ----       | -     |

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

# DATA OF ANTENNA TRANSFER SWITCH TEST

UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.  
EQUIPMENT : DVD-RW/VCR  
MODEL : DVR-RT500-S  
TEMP./HUMID. : 23 /43%

REPORT NO : 24KE0259-YW-1  
DATE : July 1,2004  
REGULATION : FCC Part15 Subpart B  
TEST ENGINEER : Tsubasa Takayama

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

LIMIT : FCC15B ANTENNA TRANSFER SWITCH

| NO | FREQ<br>[MHz] | READING        |                | C.F<br>[dB] | RESULT         |                | LIMIT          |                | MARGIN     |            | PHASE |
|----|---------------|----------------|----------------|-------------|----------------|----------------|----------------|----------------|------------|------------|-------|
|    |               | QP<br>[dB μ V] | AV<br>[dB μ V] |             | QP<br>[dB μ V] | AV<br>[dB μ V] | QP<br>[dB μ V] | AV<br>[dB μ V] | QP<br>[dB] | AV<br>[dB] |       |
| 1  | 67.2500       | 22.3           | ----           | -22.0       | 0.3            | ----           | 9.5            | ----           | 9.2        | ----       | -     |
| 2  | 134.5000      | 29.0           | ----           | -21.7       | 7.3            | ----           | 9.5            | ----           | 2.2        | ----       | -     |
| 3  | 201.7500      | 22.1           | ----           | -21.6       | 0.5            | ----           | 9.5            | ----           | 9.0        | ----       | -     |
| 4  | 269.0000      | 26.7           | ----           | -21.8       | 4.9            | ----           | 9.5            | ----           | 4.6        | ----       | -     |
| 5  | 336.2500      | 22.0           | ----           | -22.1       | -0.1           | ----           | 9.5            | ----           | 9.6        | ----       | -     |
| 6  | 403.5000      | 23.0           | ----           | -22.3       | 0.7            | ----           | 9.5            | ----           | 8.8        | ----       | -     |

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-RW/VCR  
MODEL : DVR-RT500-S  
TEMP./HUMID. : 23 /43%

REPORT NO : 24KE0259-YW-1  
DATE : July 1,2004  
REGULATION : FCC Part15 Subpart B  
TEST ENGINEER : Tsubasa Takayama

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

LIMIT : FCC15B ANTENNA TRANSFER SWITCH

| NO | FREQ<br>[MHz] | READING        |                | C.F<br>[dB] | RESULT         |                | LIMIT          |                | MARGIN     |            | PHASE |
|----|---------------|----------------|----------------|-------------|----------------|----------------|----------------|----------------|------------|------------|-------|
|    |               | QP<br>[dB μ V] | AV<br>[dB μ V] |             | QP<br>[dB μ V] | AV<br>[dB μ V] | QP<br>[dB μ V] | AV<br>[dB μ V] | QP<br>[dB] | AV<br>[dB] |       |
| 1  | 67.2500       | 22.4           | ----           | -22.0       | 0.4            | ----           | 9.5            | ----           | 9.1        | ----       | -     |
| 2  | 134.5000      | 29.0           | ----           | -21.7       | 7.3            | ----           | 9.5            | ----           | 2.2        | ----       | -     |
| 3  | 201.7500      | 23.4           | ----           | -21.6       | 1.8            | ----           | 9.5            | ----           | 7.7        | ----       | -     |
| 4  | 269.0000      | 26.2           | ----           | -21.8       | 4.4            | ----           | 9.5            | ----           | 5.1        | ----       | -     |
| 5  | 336.2500      | 22.3           | ----           | -22.1       | 0.2            | ----           | 9.5            | ----           | 9.3        | ----       | -     |
| 6  | 403.5000      | 22.7           | ----           | -22.3       | 0.4            | ----           | 9.5            | ----           | 9.1        | ----       | -     |

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-RW/VCR  
MODEL : DVR-RT500-S  
TEMP./HUMID. : 23 /43%

REPORT NO : 24KE0259-YW-1  
DATE : July 1,2004  
REGULATION : FCC Part15 Subpart B  
TEST ENGINEER : Tsubasa Takayama

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

LIMIT : FCC15B ANTENNA TRANSFER SWITCH

| NO | FREQ<br>[MHz] | READING        |                | C.F<br>[dB] | RESULT         |                | LIMIT          |                | MARGIN     |            | PHASE |
|----|---------------|----------------|----------------|-------------|----------------|----------------|----------------|----------------|------------|------------|-------|
|    |               | QP<br>[dB μ V] | AV<br>[dB μ V] |             | QP<br>[dB μ V] | AV<br>[dB μ V] | QP<br>[dB μ V] | AV<br>[dB μ V] | QP<br>[dB] | AV<br>[dB] |       |
| 1  | 67.2500       | 22.4           | ----           | -22.0       | 0.4            | ----           | 9.5            | ----           | 9.1        | ----       | -     |
| 2  | 134.5000      | 28.7           | ----           | -21.7       | 7.0            | ----           | 9.5            | ----           | 2.5        | ----       | -     |
| 3  | 201.7500      | 23.4           | ----           | -21.6       | 1.8            | ----           | 9.5            | ----           | 7.7        | ----       | -     |
| 4  | 269.0000      | 26.0           | ----           | -21.8       | 4.2            | ----           | 9.5            | ----           | 5.3        | ----       | -     |
| 5  | 336.2500      | 22.3           | ----           | -22.1       | 0.2            | ----           | 9.5            | ----           | 9.3        | ----       | -     |
| 6  | 403.5000      | 22.4           | ----           | -22.3       | 0.1            | ----           | 9.5            | ----           | 9.4        | ----       | -     |

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

# DATA OF ANTENNA TRANSFER SWITCH TEST

UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.  
EQUIPMENT : DVD-RW/VCR  
MODEL : DVR-RT500-S  
TEMP./HUMID. : 23 /43%

REPORT NO : 24KE0259-YW-1  
DATE : July 1,2004  
REGULATION : FCC Part15 Subpart B  
TEST ENGINEER : Tsubasa Takayama

OPERATION MODE : VCR Playback+Rec : 4ch

LIMIT : FCC15B ANTENNA TRANSFER SWITCH

| NO | FREQ<br>[MHz] | READING        |                | C.F<br>[dB] | RESULT         |                | LIMIT          |                | MARGIN     |            | PHASE |
|----|---------------|----------------|----------------|-------------|----------------|----------------|----------------|----------------|------------|------------|-------|
|    |               | QP<br>[dB μ V] | AV<br>[dB μ V] |             | QP<br>[dB μ V] | AV<br>[dB μ V] | QP<br>[dB μ V] | AV<br>[dB μ V] | QP<br>[dB] | AV<br>[dB] |       |
| 1  | 67.2500       | 22.3           | ----           | -22.0       | 0.3            | ----           | 9.5            | ----           | 9.2        | ----       | -     |
| 2  | 134.5000      | 28.8           | ----           | -21.7       | 7.1            | ----           | 9.5            | ----           | 2.4        | ----       | -     |
| 3  | 201.7500      | 23.4           | ----           | -21.6       | 1.8            | ----           | 9.5            | ----           | 7.7        | ----       | -     |
| 4  | 269.0000      | 26.0           | ----           | -21.8       | 4.2            | ----           | 9.5            | ----           | 5.3        | ----       | -     |
| 5  | 336.2500      | 22.4           | ----           | -22.1       | 0.3            | ----           | 9.5            | ----           | 9.2        | ----       | -     |
| 6  | 403.5000      | 22.5           | ----           | -22.3       | 0.2            | ----           | 9.5            | ----           | 9.3        | ----       | -     |

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

# DATA OF ANTENNA TRANSFER SWITCH TEST

UL Apex Co.,Ltd.

COMPANY : Orion Electric Co., Ltd.  
EQUIPMENT : DVD-RW/VCR  
MODEL : DVR-RT500-S  
TEMP./HUMID. : 23 /43%

REPORT NO : 24KE0259-YW-1  
DATE : July 1,2004  
REGULATION : FCC Part15 Subpart B  
TEST ENGINEER : Tsubasa Takayama

OPERATION MODE : DVD Play : 4ch

LIMIT : FCC15B ANTENNA TRANSFER SWITCH

| NO | FREQ<br>[MHz] | READING        |                | C.F<br>[dB] | RESULT         |                | LIMIT          |                | MARGIN     |            | PHASE |
|----|---------------|----------------|----------------|-------------|----------------|----------------|----------------|----------------|------------|------------|-------|
|    |               | QP<br>[dB μ V] | AV<br>[dB μ V] |             | QP<br>[dB μ V] | AV<br>[dB μ V] | QP<br>[dB μ V] | AV<br>[dB μ V] | QP<br>[dB] | AV<br>[dB] |       |
| 1  | 67.2500       | 22.4           | ----           | -22.0       | 0.4            | ----           | 9.5            | ----           | 9.1        | ----       | -     |
| 2  | 134.5000      | 29.0           | ----           | -21.7       | 7.3            | ----           | 9.5            | ----           | 2.2        | ----       | -     |
| 3  | 201.7500      | 22.3           | ----           | -21.6       | 0.7            | ----           | 9.5            | ----           | 8.8        | ----       | -     |
| 4  | 269.0000      | 26.0           | ----           | -21.8       | 4.2            | ----           | 9.5            | ----           | 5.3        | ----       | -     |
| 5  | 336.2500      | 22.3           | ----           | -22.1       | 0.2            | ----           | 9.5            | ----           | 9.3        | ----       | -     |
| 6  | 403.5000      | 22.6           | ----           | -22.3       | 0.3            | ----           | 9.5            | ----           | 9.2        | ----       | -     |

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 : DVR-RT500-S  
Power : AC120 V / 60Hz  
Description : TV Reception  
Remarks : -

Report Number : 24KE0259-YW-1  
Regulation : FCC Part15 SubpartB  
Date : June 29,2004  
Temp / Humid : 26°/ 46%  
Engineer : Tsubasa Takayama

| Ch<br>[VHF]                                 | Frequency<br>[MHz] | Sensitivity<br>[MHz] |      | Ch<br>[UHF]         | Frequency<br>[MHz] | Sensitivity<br>[MHz] |        |
|---------------------------------------------|--------------------|----------------------|------|---------------------|--------------------|----------------------|--------|
|                                             |                    | [dBμV]               | [μV] |                     |                    | [dB μ V]             | [ μ V] |
| 2                                           | 55.25              | 20.0                 | 10.0 | 14                  | 471.25             | 25.8                 | 19.5   |
| 3                                           | 61.25              | 20.0                 | 10.0 | 20                  | 507.25             | 25.8                 | 19.5   |
| 4                                           | 67.25              | 19.8                 | 9.8  | 26                  | 543.25             | 25.9                 | 19.7   |
| 5                                           | 77.25              | 19.5                 | 9.4  | 32                  | 579.25             | 26.4                 | 20.9   |
| 6                                           | 83.25              | 19.4                 | 9.3  | 38                  | 615.25             | 27.0                 | 22.4   |
| 7                                           | 175.25             | 22.2                 | 12.9 | 44                  | 651.25             | 27.0                 | 22.4   |
| 8                                           | 181.25             | 22.1                 | 12.7 | 50                  | 687.25             | 26.4                 | 20.9   |
| 9                                           | 187.25             | 22.2                 | 12.9 | 56                  | 723.25             | 24.9                 | 17.6   |
| 10                                          | 193.25             | 22.3                 | 13.0 | 62                  | 759.25             | 24.6                 | 17.0   |
| 11                                          | 199.25             | 22.2                 | 12.9 | 69                  | 801.25             | 24.5                 | 16.8   |
| 12                                          | 205.25             | 22.4                 | 13.2 | -                   | -                  | -                    | -      |
| 13                                          | 211.25             | 22.3                 | 13.0 | -                   | -                  | -                    | -      |
| Average VHF                                 |                    |                      | 11.6 | Average UHF         |                    |                      | 19.7   |
| Average UHF/VHF : 20 log UHF[μV] / VHF[μV]= |                    |                      |      | 4.6 [Limit : 8.0dB] |                    |                      |        |

# Noise Figure Test

UL Apex Co.,Ltd.  
Yokowa EMC Laboratory

Company : Orion Electric Co., Ltd.  
Equipment : DVD/VCR  
Model Number : DVR-RT500-S  
Power : AC120 V / 60Hz  
Description : TV Reception  
Remarks : -

Report Number : 24KE0259-YW-1  
Regulation : FCC Part15 SubpartB  
Date : June 29,2004  
Temp / Humid : 26°/ 46%  
Engineer : Tsubasa Takayama

| Ch                 | Frequency<br>[MHz] | Meter<br>Reading<br>[dB] | Correction<br>Factor<br>[dB] | Noise<br>Figure<br>[dB] | Limits<br>[dB] | Margin<br>[dB] |
|--------------------|--------------------|--------------------------|------------------------------|-------------------------|----------------|----------------|
| TV VHF Fundamental |                    |                          |                              |                         |                |                |
| 2                  | 55.25              | 4.6                      | 0.2                          | 4.4                     | 14.0           | 9.6            |
| 3                  | 61.25              | 4.2                      | 0.2                          | 4.0                     | 14.0           | 10.0           |
| 4                  | 67.25              | 4.3                      | 0.2                          | 4.1                     | 14.0           | 9.9            |
| 5                  | 77.25              | 4.2                      | 0.2                          | 4.0                     | 14.0           | 10.0           |
| 6                  | 83.25              | 4.3                      | 0.2                          | 4.1                     | 14.0           | 9.9            |
| 7                  | 175.25             | 4.7                      | 0.2                          | 4.5                     | 14.0           | 9.5            |
| 8                  | 181.25             | 4.7                      | 0.2                          | 4.5                     | 14.0           | 9.5            |
| 9                  | 187.25             | 4.4                      | 0.2                          | 4.2                     | 14.0           | 9.8            |
| 10                 | 193.25             | 4.5                      | 0.2                          | 4.3                     | 14.0           | 9.7            |
| 11                 | 199.25             | 4.7                      | 0.2                          | 4.5                     | 14.0           | 9.5            |
| 12                 | 205.25             | 4.6                      | 0.2                          | 4.4                     | 14.0           | 9.6            |
| 13                 | 211.25             | 4.5                      | 0.2                          | 4.3                     | 14.0           | 9.7            |
| TV UHF Fundamental |                    |                          |                              |                         |                |                |
| 14                 | 471.25             | 5.8                      | 0.3                          | 5.5                     | 14.0           | 8.5            |
| 20                 | 507.25             | 6.0                      | 0.3                          | 5.7                     | 14.0           | 8.3            |
| 26                 | 543.25             | 6.0                      | 0.3                          | 5.7                     | 14.0           | 8.3            |
| 32                 | 579.25             | 6.0                      | 0.3                          | 5.7                     | 14.0           | 8.3            |
| 38                 | 615.25             | 6.1                      | 0.3                          | 5.8                     | 14.0           | 8.2            |
| 44                 | 651.25             | 6.6                      | 0.3                          | 6.3                     | 14.0           | 7.7            |
| 50                 | 687.25             | 5.8                      | 0.3                          | 5.5                     | 14.0           | 8.5            |
| 56                 | 723.25             | 5.4                      | 0.4                          | 5.0                     | 14.0           | 9.0            |
| 62                 | 759.25             | 5.4                      | 0.4                          | 5.0                     | 14.0           | 9.0            |
| 69                 | 801.25             | 5.8                      | 0.4                          | 5.4                     | 14.0           | 8.6            |
| Mid band           |                    |                          |                              |                         |                |                |
| 14                 | 121.25             | 4.0                      | 0.2                          | 3.8                     | 14.0           | 10.2           |
| 16                 | 133.25             | 7.0                      | 0.2                          | 6.8                     | 14.0           | 7.2            |
| 18                 | 145.25             | 6.0                      | 0.2                          | 5.8                     | 14.0           | 8.2            |
| 20                 | 157.25             | 5.2                      | 0.2                          | 5.0                     | 14.0           | 9.0            |
| 22                 | 169.25             | 5.0                      | 0.2                          | 4.8                     | 14.0           | 9.2            |
| Super band         |                    |                          |                              |                         |                |                |
| 23                 | 217.25             | 4.5                      | 0.2                          | 4.3                     | 14.0           | 9.7            |
| 26                 | 235.25             | 4.6                      | 0.2                          | 4.4                     | 14.0           | 9.6            |
| 29                 | 253.25             | 4.6                      | 0.2                          | 4.4                     | 14.0           | 9.6            |
| 32                 | 271.25             | 4.7                      | 0.2                          | 4.5                     | 14.0           | 9.5            |
| 36                 | 295.25             | 4.9                      | 0.2                          | 4.7                     | 14.0           | 9.3            |

Test Report No : 24KE0259-YW-1

### APPENDIX 3

#### Test Instruments

| Control No. | Instrument                                  | Manufacturer    | Model No                                              | Test Item           | Calibration Date *<br>Interval(month) |
|-------------|---------------------------------------------|-----------------|-------------------------------------------------------|---------------------|---------------------------------------|
| APVBT01     | VIDEO BOOSTER                               | UL Apex         | -                                                     | RF, ATS             | -                                     |
| APTVG01     | TV Generator                                | Leader          | 408NPS                                                | RF, ATS             | Pre Check                             |
| APSPA04     | Spectrum Analyzer                           | Advantest       | R3265                                                 | AT, RF, ATS         | 2004/05/14 * 12                       |
| APMAT05     | Matching Pad                                | TME             | ZT-130                                                | AT, RF, ATS         | 2003/12/16 * 12                       |
| APNFM01     | Noise Figure Indicator                      | Elena           | ENF-2005                                              | NF                  | 2002/09/27 * 24                       |
| APNFS01     | Noise Source                                | Elena           | MC1100                                                | NF                  | -                                     |
| AV01-01     | Signal Generator                            | Rohde & Schwarz | SMY01                                                 | PS                  | 2004/02/19 * 12                       |
| SS-05       | Digitizing Oscilloscope                     | Sony Tektronix  | 2221                                                  | PS                  | 2004/01/22 * 12                       |
| APBPF01     | Band pass filter                            | Erika Fiedler   | BP                                                    | PS                  | Pre Check                             |
| APPRA01     | Pre Amplifier                               | Anritsu         | MH648A                                                | AT, RF, ATS         | 2003/10/03 * 12                       |
| APPRA05     | Pre Amplifier                               | Hewlett Packard | 8449B                                                 | AT                  | 2003/12/10 * 12                       |
| APCBL-01    | Coaxial Cable                               | Fujikura        | 5D-2W                                                 | AT, RF, ATS         | 2004/01/08 * 12                       |
| APCBL-02    | Coaxial Cable                               | Fujikura        | 5D-2W                                                 | AT, RF, ATS         | 2004/01/08 * 12                       |
| OS-15       | Digital Humidity Indicator                  | SATO            | PC-5000TRH                                            | AT, RF, ATS, PS, NF | 2004/05/06 * 12                       |
| LS-01       | LISN(AMN)                                   | Rohde & Schwarz | ESH2-Z5                                               | CE                  | 2003/10/31 * 12                       |
| SA-07       | Spectrum Analyzer                           | Advantest       | R3273                                                 | CE                  | 2003/12/08 * 12                       |
| TR-01       | Test Receiver                               | Rohde & Schwarz | ESHS20                                                | CE                  | 2004/05/11 * 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                  | 2004/03/28 * 12                       |
| AF-03       | Pre Amplifier                               | Anritsu         | MH648A                                                | RE, AT              | 2004/03/28 * 12                       |
| AT-04       | Attenuator                                  | Anritsu         | MP721B                                                | RE, AT              | 2004/03/26 * 12                       |
| BA-04       | Biconical Antenna                           | Schwarzbeck     | BBA9106                                               | RE                  | 2004/04/10 * 12                       |
| LA-05       | Logperiodic Antenna                         | Schwarzbeck     | UHALP9108-A                                           | RE                  | 2003/10/19 * 12                       |
| SA-05       | Spectrum Analyzer                           | Advantest       | R3271                                                 | RE, AT              | 2003/12/21 * 12                       |
| TR-04       | Test Receiver                               | Rohde & Schwarz | ESVS10                                                | RE                  | 2004/05/21 * 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                  | 2004/03/28 * 12                       |
| YOATS-02    | Open Test Site                              | JSE             | 3m, 10m                                               | RE                  | 2003/08/14 * 12                       |
| OS-10       | Digital Humidity Indicator                  | SATO            | PC-5000TRH                                            | RE                  | 2004/05/06 * 12                       |
| OS-05       | Digital Humidity Indicator                  | SATO            | PC-5000TRH                                            | CE                  | 2004/04/22 * 12                       |
| HA-01       | Horn Antenna                                | A.H.Systems     | SAS-200/571                                           | RE                  | 2004/04/10 * 12                       |
| CC-C17      | Microwave Cable                             | Suhner          | SUCOFLEX                                              | RE                  | 2004/05/02 * 12                       |
| CC-C15      | Microwave Cable                             | Suhner          | SUCOFLEX                                              | RE                  | 2004/05/02 * 12                       |
| AF-07       | Pre Amplifier                               | Agilent         | HP8449B                                               | RE                  | 2003/12/25 * 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