

UL Apex Co., Ltd.
Yokowa EMC No.3 Open Test Site

REPORT No. : 24JE0051-YW-1
REGULATION : FCC PART15 B
TEST DISTANCE : 3m
ATTENUATION : 101-847MHz 6dB
1030-1694MHz 0dB
DATE : May 15, 2004
TEMP./HUMID. : 25°C/53%
ENGINEER : Tsubasa Takayama

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

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DATA OF RADIATION TEST

UL Apex Co., Ltd.
Yokowa EMC No.3 Open Test Site

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL No. : SD-V392SUA
POWER : AC120V/60Hz
DESCRIPTION : TV Reception + Rec

REPORT No. : 24JE0051-YW-1
REGULATION : FCC PART15 B
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ATTENUATION : 101-847MHz 6dB
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TEMP/HUMID. : 25°C/53%
ENGINEER : Tsubasa Takayama

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

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

CH.	FREQ [MHz]	READING(QP) HOR. VER. [dBuV]				ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. VER. [dBuV/m]				LIMIT [QP] [dBuV/m]	MARGIN(QP) HOR. VER. [dB]					
VHF																		
5	123	22.1	22.8			BC	-7.5	14.6	15.3			43.5		28.9	28.2			
	246					BC	-3.5					46.0						
	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						
		READING(PK) HOR. VER. [dBuV]	READING(AV) HOR. VER. [dBuV]			ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. VER. [dBuV/m]	RESULT(AV) HOR. VER. [dBuV/m]			LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. VER. [dB]	MARGIN(AV) HOR. VER. [dB]			
	1107					HO	-11.4					74.0	54.0					
	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 [MHz]	READING(QP) HOR. VER. [dBuV]				ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. VER. [dBuV/m]				LIMIT [QP] [dBuV/m]	MARGIN(QP) HOR. VER. [dB]					
6	129	22.3	22.3			BC	-7.0	15.3	15.3			43.5		28.2	28.2			
	258					BC	-3.1					46.0						
	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						
		READING(PK) HOR. VER. [dBuV]	READING(AV) HOR. VER. [dBuV]			ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. VER. [dBuV/m]	RESULT(AV) HOR. VER. [dBuV/m]			LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. VER. [dB]	MARGIN(AV) HOR. VER. [dB]			
	1032					HO	-11.9					74.0	54.0					
	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 [MHz]	READING(QP) HOR. VER. [dBuV]				ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. VER. [dBuV/m]				LIMIT [QP] [dBuV/m]	MARGIN(QP) HOR. VER. [dB]					
7	221	28.1	24.0			BC	-3.8	24.3	20.2			46.0		21.7	25.8			
	442					LO	-3.1					46.0						
	663					LO	1.9					46.0						
	884					LO	5.5					46.0						
		READING(PK) HOR. VER. [dBuV]	READING(AV) HOR. VER. [dBuV]			ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. VER. [dBuV/m]	RESULT(AV) HOR. VER. [dBuV/m]			LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. VER. [dB]	MARGIN(AV) HOR. VER. [dB]			
	1105					HO	-11.5					74.0	54.0					
	1326					HO	-10.3					74.0	54.0					
	1547					HO	-8.9					74.0	54.0					
CH.	FREQ [MHz]	READING(QP) HOR. VER. [dBuV]				ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. VER. [dBuV/m]				LIMIT [QP] [dBuV/m]	MARGIN(QP) HOR. VER. [dB]					
8	227	27.0	23.0			BC	-3.7	23.3	19.3			46.0		22.7	26.7			
	454					LO	-2.6					46.0						
	681					LO	2.2					46.0						
	908					LO	5.8					46.0						
		READING(PK) HOR. VER. [dBuV]	READING(AV) HOR. VER. [dBuV]			ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. VER. [dBuV/m]	RESULT(AV) HOR. VER. [dBuV/m]			LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. VER. [dB]	MARGIN(AV) HOR. VER. [dB]			
	1135					HO	-11.3					74.0	54.0					
	1362					HO	-10.1					74.0	54.0					
	1589					HO	-8.5					74.0	54.0					
												</						

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DESCRIPTION : TV Reception + Rec

REPORT No. : 24JE0051-YW-I
REGULATION : FCC PART15 B
TEST DISTANCE : 3m
ATTENUATION : 101-847MHz 6dB
1030-1694MHz 0dB
DATE : May 15, 2004
TEMP/HUMID. : 25°C/53%
ENGINEER : Tsubasa Takayama

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

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

CH.	FREQ	READING(QP)				ANT	C.Factor	RESULT(QP)				LIMIT			MARGIN(QP)			
	[MHz]	HOR.	VER.			TYPE	[dBuV]	HOR.	VER.			[QP]			HOR.	VER.		
		[dBuV]						[dBuV/m]				[dBuV/m]			[dB]	[dB]		
VHF																		
9	233	25.0	22.1			BC	-3.6	21.4	18.5			46.0			24.6	27.5		
	466					LO	-2.3					46.0			>15.0			
	699					LO	2.6					46.0						
	932					LO	6.7					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]	[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	READING(QP)			ANT	C.Factor	RESULT(QP)			LIMIT		MARGIN(QP)						
	[MHz]	HOR. VER.			TYPE		HOR. VER.			[QP]		HOR. VER.						
		[dBuV]				[dBuV]	[dBuV/m]			[dBuV/m]		[dB]	[dB]					
10	239	24.0	23.0			BC	-3.5	20.5	19.5			46.0			25.5	26.5		
	478					LO	-2.0					46.0			>15.0			
	717					LO	2.8					46.0						
	956					LO	7.5					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]	[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	READING(QP)			ANT	C.Factor	RESULT(QP)			LIMIT		MARGIN(QP)						
	[MHz]	HOR. VER.			TYPE		HOR. VER.			[QP]		HOR. VER.						
		[dBuV]				[dBuV]	[dBuV/m]			[dBuV/m]		[dB]	[dB]					
11	245	21.8	21.6			BC	-3.5	18.3	18.1			46.0			27.7	27.9		
	490					LO	-1.5					46.0			>15.0			
	735					LO	3.2					46.0						
	980					LO	8.4					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]	[dB]	[dB]					
	1225					HO	-10.8					74.0	54.0		>27.0	>10.0		
	1470					HO	-9.5					74.0	54.0					
CH.	FREQ	READING(QP)			ANT	C.Factor	RESULT(QP)			LIMIT		MARGIN(QP)						
	[MHz]	HOR. VER.			TYPE		HOR. VER.			[QP]		HOR. VER.						
		[dBuV]				[dBuV]	[dBuV/m]			[dBuV/m]		[dB]	[dB]					
12	251	22.8	21.6			BC	-3.5	19.3	18.1			46.0			26.7	27.9		
	502					LO	-1.2					46.0			>15.0			
	753					LO	3.5					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]	[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	READING(QP)			ANT	C.Factor	RESULT(QP)			LIMIT		MARGIN(QP)						
	[MHz]	HOR. VER.			TYPE		HOR. VER.			[QP]		HOR. VER.						
		[dBuV]				[dBuV]	[dBuV/m]			[dBuV/m]		[dB]	[dB]					
13	257	23.4	24.4			BC	-3.1	20.3	21.3			46.0			25.7	24.7		
	514					LO	-1.0					46.0			>15.0			
	771					LO	3.7					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]	[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					

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CH.	FREQ	READING(QP)	READING(AV)	ANT	C.Factor	RESULT(QP)	RESULT(AV)	LIMIT	LIMIT	MARGIN(QP)	MARGIN(AV)
	[MHz]	HOR. VER. [dBuV]	HOR. VER. [dBuV]	TYPE	[dBuV]	HOR. VER. [dBuV/m]	HOR. VER. [dBuV/m]	[QP] [dBuV/m]	[AV] [dBuV/m]	HOR. VER. [dB]	HOR. VER. [dB]
UHF											
14	517	24.3	30.0	LO	-1.0	23.3	29.0	46.0	-	22.7	17.0
		READING(PK)	READING(AV)	ANT	C.Factor	RESULT(PK)	RESULT(AV)	LIMIT	LIMIT	MARGIN(PK)	MARGIN(AV)
		HOR. VER. [dBuV]	HOR. VER. [dBuV]	TYPE	[dBuV]	HOR. VER. [dBuV/m]	HOR. VER. [dBuV/m]	[PK] [dBuV/m]	[AV] [dBuV/m]	HOR. VER. [dB]	HOR. VER. [dB]
	1034			HO	-11.9			74.0	54.0	>27.0	>10.0
19	547	29.0	27.0	LO	-0.3	28.7	26.7	46.0	-	17.3	19.3
		READING(PK)	READING(AV)	ANT	C.Factor	RESULT(PK)	RESULT(AV)	LIMIT	LIMIT	MARGIN(PK)	MARGIN(AV)
		HOR. VER. [dBuV]	HOR. VER. [dBuV]	TYPE	[dBuV]	HOR. VER. [dBuV/m]	HOR. VER. [dBuV/m]	[PK] [dBuV/m]	[AV] [dBuV/m]	HOR. VER. [dB]	HOR. VER. [dB]
	1094			HO	-11.5			74.0	54.0	>27.0	>10.0
28	601	28.0	27.7	LO	0.7	28.7	28.4	46.0	-	17.3	17.6
		READING(PK)	READING(AV)	ANT	C.Factor	RESULT(PK)	RESULT(AV)	LIMIT	LIMIT	MARGIN(PK)	MARGIN(AV)
		HOR. VER. [dBuV]	HOR. VER. [dBuV]	TYPE	[dBuV]	HOR. VER. [dBuV/m]	HOR. VER. [dBuV/m]	[PK] [dBuV/m]	[AV] [dBuV/m]	HOR. VER. [dB]	HOR. VER. [dB]
	1202			HO	-10.9			74.0	54.0	>27.0	>10.0
36	649	25.0	25.2	LO	1.6	26.6	26.8	46.0	-	19.4	19.2
		READING(PK)	READING(AV)	ANT	C.Factor	RESULT(PK)	RESULT(AV)	LIMIT	LIMIT	MARGIN(PK)	MARGIN(AV)
		HOR. VER. [dBuV]	HOR. VER. [dBuV]	TYPE	[dBuV]	HOR. VER. [dBuV/m]	HOR. VER. [dBuV/m]	[PK] [dBuV/m]	[AV] [dBuV/m]	HOR. VER. [dB]	HOR. VER. [dB]
	1298			HO	-10.5			74.0	54.0	>27.0	>10.0
44	697	23.7	23.7	LO	2.6	26.3	26.3	46.0	-	19.7	19.7
		READING(PK)	READING(AV)	ANT	C.Factor	RESULT(PK)	RESULT(AV)	LIMIT	LIMIT	MARGIN(PK)	MARGIN(AV)
		HOR. VER. [dBuV]	HOR. VER. [dBuV]	TYPE	[dBuV]	HOR. VER. [dBuV/m]	HOR. VER. [dBuV/m]	[PK] [dBuV/m]	[AV] [dBuV/m]	HOR. VER. [dB]	HOR. VER. [dB]
	1394			HO	-9.9			74.0	54.0	>27.0	>10.0
53	751	25.0	25.4	LO	3.4	28.4	28.8	46.0	-	17.6	17.2
		READING(PK)	READING(AV)	ANT	C.Factor	RESULT(PK)	RESULT(AV)	LIMIT	LIMIT	MARGIN(PK)	MARGIN(AV)
		HOR. VER. [dBuV]	HOR. VER. [dBuV]	TYPE	[dBuV]	HOR. VER. [dBuV/m]	HOR. VER. [dBuV/m]	[PK] [dBuV/m]	[AV] [dBuV/m]	HOR. VER. [dB]	HOR. VER. [dB]
	1502			HO	-9.3			74.0	54.0	>27.0	>10.0
61	799	22.3	24.5	LO	4.1	26.4	28.6	46.0	-	19.6	17.4
		READING(PK)	READING(AV)	ANT	C.Factor	RESULT(PK)	RESULT(AV)	LIMIT	LIMIT	MARGIN(PK)	MARGIN(AV)
		HOR. VER. [dBuV]	HOR. VER. [dBuV]	TYPE	[dBuV]	HOR. VER. [dBuV/m]	HOR. VER. [dBuV/m]	[PK] [dBuV/m]	[AV] [dBuV/m]	HOR. VER. [dB]	HOR. VER. [dB]
	1598			HO	-8.4			74.0	54.0	>27.0	>10.0
69	847	22.1	24.6	LO	4.5	26.6	29.1	46.0	-	19.4	16.9
		READING(PK)	READING(AV)	ANT	C.Factor	RESULT(PK)	RESULT(AV)	LIMIT	LIMIT	MARGIN(PK)	MARGIN(AV)
		HOR. VER. [dBuV]	HOR. VER. [dBuV]	TYPE	[dBuV]	HOR. VER. [dBuV/m]	HOR. VER. [dBuV/m]	[PK] [dBuV/m]	[AV] [dBuV/m]	HOR. VER. [dB]	HOR. VER. [dB]
	1694			HO	-7.6			74.0	54.0	>27.0	>10.0

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CH.	FREQ	READING(QP)				ANT	C.Factor	RESULT(QP)				LIMIT	MARGIN(QP)			
	[MHz]	HOR.	VER.			TYPE	[dBuV]	HOR.	VER.			[QF]	HOR.	VER.		
		[dBuV]						[dBuV/m]				[dBuV/m]	[dB]	[dB]		
CATV																
I	119	22.3	22.7			BC	-7.7	14.6	15.0			43.5		28.9	28.5	
	238					BC	-3.5					46.0				
	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				
		READING(PK)	READING(AV)			ANT	C.Factor	RESULT(PK)	RESULT(AV)			LIMIT	LIMIT	MARGIN(PK)	MARGIN(AV)	
		HOR. VER.	HOR. VER.			TYPE	[dBuV]	HOR. VER.	HOR. VER.			[PK]	[AV]	HOR. VER.	HOR. VER.	
		[dBuV]	[dBuV]					[dBuV/m]	[dBuV/m]			[dBuV/m]	[dBuV/m]	[dB]	[dB]	
	1071					HO	-11.7					74.0	54.0			
	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	READING(QP)				ANT	C.Factor	RESULT(QP)				LIMIT	MARGIN(QP)			
	[MHz]	HOR.	VER.			TYPE	[dBuV]	HOR.	VER.			[QF]	HOR.	VER.		
		[dBuV]						[dBuV/m]				[dBuV/m]	[dB]	[dB]		
95	137	22.3	22.4			BC	-6.4	15.9	16.0			43.5		27.6	27.5	
	274					BC	-2.2					46.0				
	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				
		READING(PK)	READING(AV)			ANT	C.Factor	RESULT(PK)	RESULT(AV)			LIMIT	LIMIT	MARGIN(PK)	MARGIN(AV)	
		HOR. VER.	HOR. VER.			TYPE	[dBuV]	HOR. VER.	HOR. VER.			[PK]	[AV]	HOR. VER.	HOR. VER.	
		[dBuV]	[dBuV]					[dBuV/m]	[dBuV/m]			[dBuV/m]	[dBuV/m]	[dB]	[dB]	
	1096					HO	-11.5					74.0	54.0			
	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	READING(QP)				ANT	C.Factor	RESULT(QP)				LIMIT	MARGIN(QP)			
	[MHz]	HOR.	VER.			TYPE	[dBuV]	HOR.	VER.			[QF]	HOR.	VER.		
		[dBuV]						[dBuV/m]				[dBuV/m]	[dB]	[dB]		
97	149	22.6	22.3			BC	-6.0	16.6	16.3			43.5		26.9	27.2	
	298					BC	-1.0					46.0				
	447					LO	-2.8					46.0				
	596					LO	0.6					46.0				
	745					LO	3.3					46.0				
	894					LO	5.5					46.0				
		READING(PK)	READING(AV)			ANT	C.Factor	RESULT(PK)	RESULT(AV)			LIMIT	LIMIT	MARGIN(PK)	MARGIN(AV)	
		HOR. VER.	HOR. VER.			TYPE	[dBuV]	HOR. VER.	HOR. VER.			[PK]	[AV]	HOR. VER.	HOR. VER.	
		[dBuV]	[dBuV]					[dBuV/m]	[dBuV/m]			[dBuV/m]	[dBuV/m]	[dB]	[dB]	
	1043					HO	-11.8					74.0	54.0			
	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	READING(QP)				ANT	C.Factor	RESULT(QP)				LIMIT	MARGIN(QP)			
	[MHz]	HOR.	VER.			TYPE	[dBuV]	HOR.	VER.			[QF]	HOR.	VER.		
		[dBuV]						[dBuV/m]				[dBuV/m]	[dB]	[dB]		
99	161	21.7	21.7			BC	-5.6	16.1	16.1			43.5		27.4	27.4	
	322					LO	-5.6					46.0				
	483					LO	-1.7					46.0				
	644					LO	1.5					46.0				
	805					LO	4.2					46.0				
	966					LO	7.9					46.0				
		READING(PK)	READING(AV)			ANT	C.Factor	RESULT(PK)	RESULT(AV)			LIMIT	LIMIT	MARGIN(PK)	MARGIN(AV)	
		HOR. VER.	HOR. VER.			TYPE	[dBuV]	HOR. VER.	HOR. VER.			[PK]	[AV]	HOR. VER.	HOR. VER.	
		[dBuV]	[dBuV]					[dBuV/m]	[dBuV/m]			[dBuV/m]	[dBuV/m]	[dB]	[dB]	
	1127					HO	-11.3					74.0	54.0			
	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.3 Open Test Site

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL No. : SD-V392SUA
POWER : AC120V/60Hz
DESCRIPTION : TV Reception + Rec

REPORT No. : 24JE0051-YW-1
REGULATION : FCC PART15 B
TEST DISTANCE : 3m
ATTENUATION : 101-847MHz 6dB
1030-1694MHz 0dB
DATE : May 15, 2004
TEMP/HUMID. : 25°C/53%
ENGINEER : Tsubasa Takayama

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

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

CH.	FREQ	READING(QP)			ANT	C.Factor	RESULT(QP)			LIMIT		MARGIN(QP)		
	[MHz]	HOR.	VER.		TYPE	[dBuV]	HOR.	VER.		[QP]		HOR.	VER.	
		[dBuV]					[dBuV/m]			[dBuV/m]		[dB]	[dB]	
CATV														
14	167	21.8	21.8		BC	-5.1	16.7	16.7		43.5		26.8	26.8	
	334				LO	-5.4				46.0				
	501				LO	-1.2				46.0				
	668				LO	2.1				46.0				
	835				LO	4.6				46.0				

DATA OF RADIATION TEST

UL Apex Co., Ltd.
Yokowa EMC No.3 Open Test Site

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL No. : SD-V392SUA
POWER : AC120V/60Hz
DESCRIPTION : TV Reception + Rec

REPORT No. : 24JE0051-YW-1
REGULATION : FCC PART15 B
TEST DISTANCE : 3m
ATTENUATION : 101-847MHz 6dB
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TEMP./HUMID. : 25°C/53%
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) HOR. VER.	READING(AV) HOR. VER.	ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. VER.	RESULT(AV) HOR. VER.	LIMIT [QP]	LIMIT [AV]	MARGIN(QP) HOR. VER.	MARGIN(AV) HOR. VER.
[MHz]	[dBuV]	[dBuV]	[dBuV]		[dBuV]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]
CATV											
36	341	22.0	21.4	LO	-5.4	16.6	16.0	46.0	46.0	29.4	30.0
	682			LO	2.2			46.0	46.0	>15.0	
		READING(PK) HOR. VER.	READING(AV) HOR. VER.	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. VER.	RESULT(AV) HOR. VER.	LIMIT [PK]	LIMIT [AV]	MARGIN(PK) HOR. VER.	MARGIN(AV) HOR. VER.
		[dBuV]	[dBuV]		[dBuV]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]
	1023			HO	-11.9			74.0	54.0	>27.0	>10.0
	1364			HO	-10.1			74.0	54.0		
37	347	21.6	21.4	LO	-5.2	16.4	16.2	46.0	46.0	29.6	29.8
	694			LO	2.5			46.0	46.0	>15.0	
		READING(PK) HOR. VER.	READING(AV) HOR. VER.	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. VER.	RESULT(AV) HOR. VER.	LIMIT [PK]	LIMIT [AV]	MARGIN(PK) HOR. VER.	MARGIN(AV) HOR. VER.
		[dBuV]	[dBuV]		[dBuV]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]
	1041			HO	-11.8			74.0	54.0	>27.0	>10.0
	1388			HO	-9.9			74.0	54.0		
65	515	24.2	29.2	LO	-1.0	23.2	28.2	46.0	46.0	22.8	17.8
		READING(PK) HOR. VER.	READING(AV) HOR. VER.	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. VER.	RESULT(AV) HOR. VER.	LIMIT [PK]	LIMIT [AV]	MARGIN(PK) HOR. VER.	MARGIN(AV) HOR. VER.
		[dBuV]	[dBuV]		[dBuV]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]
	1030			HO	-11.9			74.0	54.0	>27.0	>10.0
	1545			HO	-8.9			74.0	54.0		
94	689	23.7	23.3	LO	2.4	26.1	25.7	46.0	46.0	19.9	20.3
		READING(PK) HOR. VER.	READING(AV) HOR. VER.	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. VER.	RESULT(AV) HOR. VER.	LIMIT [PK]	LIMIT [AV]	MARGIN(PK) HOR. VER.	MARGIN(AV) HOR. VER.
		[dBuV]	[dBuV]		[dBuV]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]
	1378			HO	-10.0			74.0	54.0	>27.0	>10.0
100	695	24.5	23.6	LO	2.5	27.0	26.1	46.0	46.0	19.0	19.9
		READING(PK) HOR. VER.	READING(AV) HOR. VER.	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. VER.	RESULT(AV) HOR. VER.	LIMIT [PK]	LIMIT [AV]	MARGIN(PK) HOR. VER.	MARGIN(AV) HOR. VER.
		[dBuV]	[dBuV]		[dBuV]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]
	1390			HO	-9.9			74.0	54.0	>27.0	>10.0
113	773	23.4	25.9	LO	3.7	27.1	29.6	46.0	46.0	18.9	16.4
		READING(PK) HOR. VER.	READING(AV) HOR. VER.	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. VER.	RESULT(AV) HOR. VER.	LIMIT [PK]	LIMIT [AV]	MARGIN(PK) HOR. VER.	MARGIN(AV) HOR. VER.
		[dBuV]	[dBuV]		[dBuV]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]
	1546			HO	-8.9			74.0	54.0	>27.0	>10.0
125	845	21.4	24.2	LO	4.5	25.9	28.7	46.0	46.0	20.1	17.3
		READING(PK) HOR. VER.	READING(AV) HOR. VER.	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. VER.	RESULT(AV) HOR. VER.	LIMIT [PK]	LIMIT [AV]	MARGIN(PK) HOR. VER.	MARGIN(AV) HOR. VER.
		[dBuV]	[dBuV]		[dBuV]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]
	1690			HO	-7.6			74.0	54.0	>27.0	>10.0

DATA OF RADIATION TEST

UL Apex Co., Ltd.
YOKOWA No.3 OPEN TEST SITE
Report No. : 24JE0051-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V392SUA
Serial No. : -
Power : AC120V/60Hz
Mode : TV Reception+Rec
Remarks : 0dBm input
Date : 5/15/2004
Test Distance : 3 m
Temperature : 23 °C
Humidity : 34 %
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μV/m]	MARGIN	
			HOR [dB μV]	VER [dB μV]					HOR [dB μV/m]	VER [dB μV/m]		HOR [dB]	VER [dB]
1.	438.73	BB	27.5	31.0	19.0	27.9	4.7	6.0	29.3	32.8	46.0	16.7	13.2

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

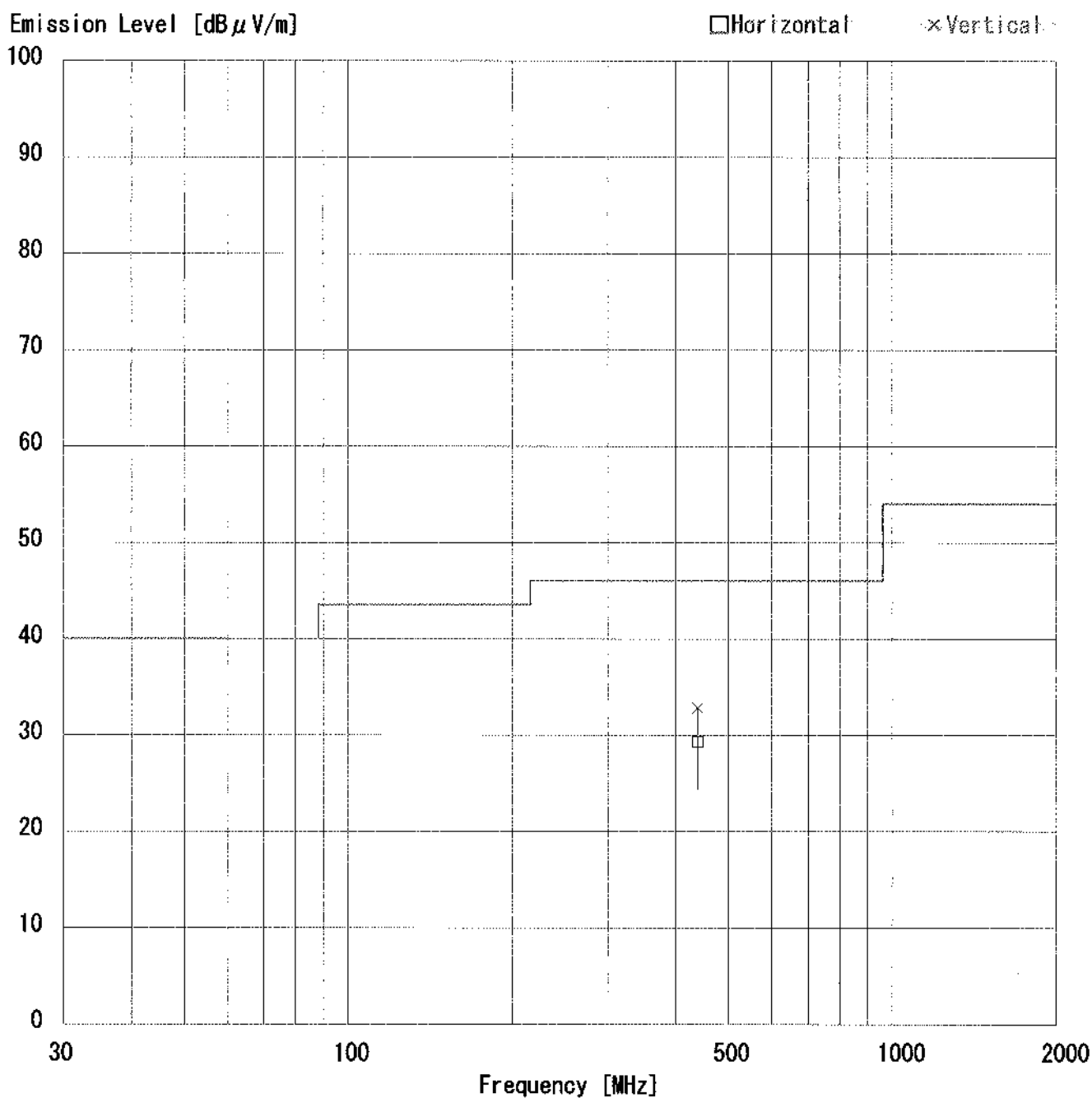
Except for the above table: adequate margin data below the limits.
ANT.TYPE:30-300MHz Biconical, 300-1000MHz Logperiodic

DATA OF RADIATION TEST

UL Apex Co., Ltd.
YOKOWA No.3 OPEN TEST SITE
Report No. : 24JE0051-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V392SUA
Serial No. : -
Power : AC120V/60Hz
Mode : TV Reception+Rec
Remarks : 0dBm input
Date : 5/15/2004
Test Distance : 3 m
Temperature : 23 °C
Humidity : 34 %
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama



DATA OF RADIATION TEST

UL Apex Co., Ltd.
YOKOWA No.3 OPEN TEST SITE
Report No. : 24JE0051-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V392SUA
Serial No. : -
Power : AC120V/60Hz
Mode : TV Reception+Rec
Remarks : 25dBm input
Date : 5/15/2004
Test Distance : 3 m
Temperature : 23 °C
Humidity : 34 %
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]		HOR [dB]	VER [dB]
1.	162.00	BB	28.2	30.0	15.6	28.1	2.5	5.9	24.1	25.9	43.5	19.4	17.6
2.	168.74	BB	26.4	27.1	15.9	28.1	2.6	5.9	22.7	23.4	43.5	20.8	20.1
3.	202.50	BB	31.1	28.6	16.5	28.0	2.9	5.9	28.4	25.9	43.5	15.1	17.6
4.	248.89	BB	26.3	28.7	17.1	27.9	3.3	6.0	24.8	27.2	46.0	21.2	18.8
5.	438.73	BB	30.0	34.0	19.0	27.9	4.7	6.0	31.8	35.8	46.0	14.2	10.2
6.	472.48	BB	30.1	32.2	19.4	27.9	5.0	6.0	32.6	34.7	46.0	13.4	11.3
7.	674.96	BB	26.1	27.8	20.9	27.4	6.1	6.0	31.7	33.4	46.0	14.3	12.6

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

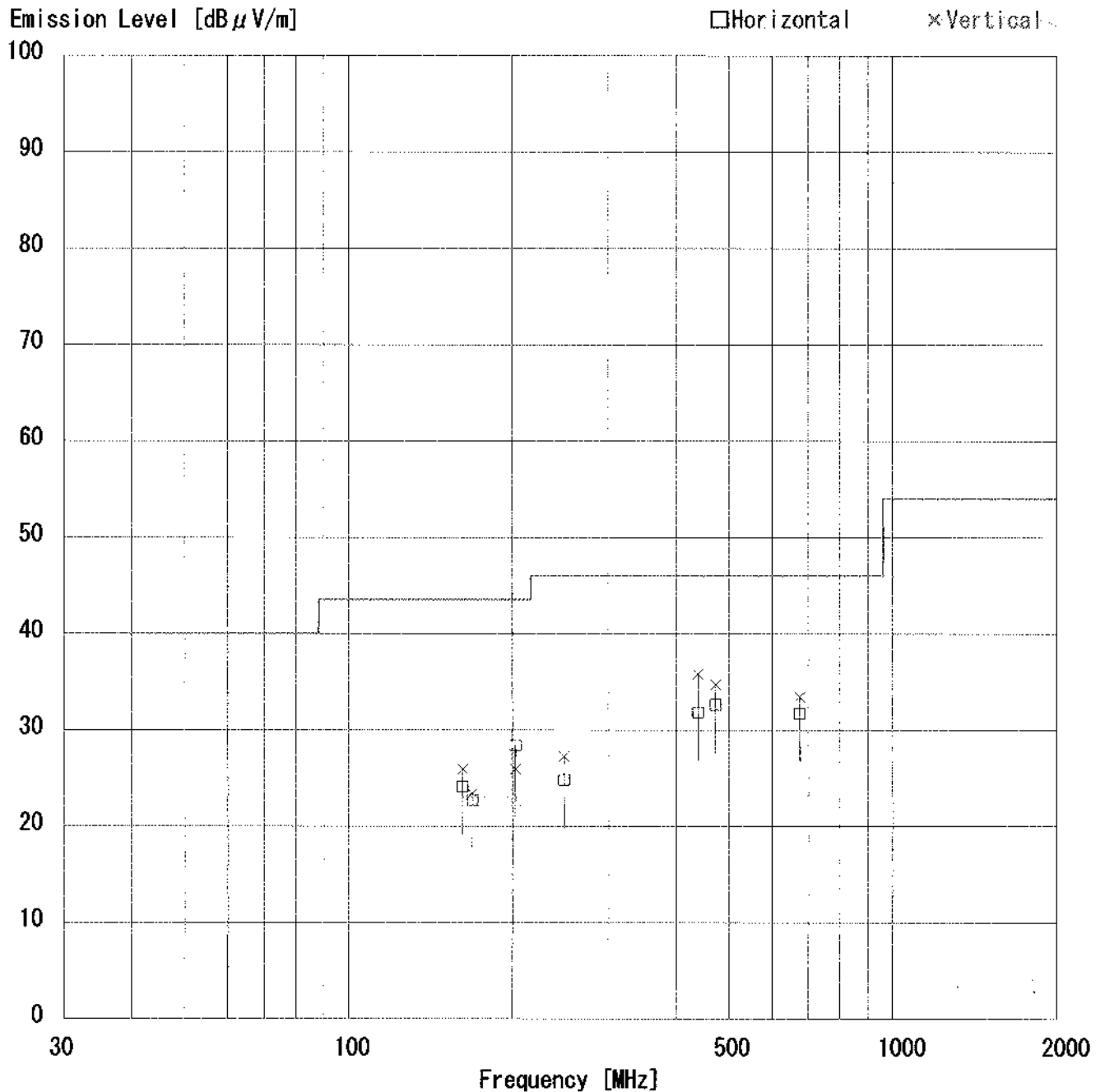
Except for the above table: adequate margin data below the limits.
ANT. TYPE: 30-300MHz Biconical, 300-1000MHz Logperiodic

DATA OF RADIATION TEST

UL Apex Co., Ltd.
YOKOWA No.3 OPEN TEST SITE
Report No. : 24JE0051-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V392SUA
Serial No. : -
Power : AC120V/60Hz
Mode : TV Reception+Rec
Remarks : 25dBm input
Date : 5/15/2004
Test Distance : 3 m
Temperature : 23 °C
Humidity : 34 %
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama



DATA OF RADIATION TEST

UL Apex Co., Ltd.
YOKOWA No.3 OPEN TEST SITE
Report No. : 24JE0051-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V392SUA
Serial No. : -
Power : AC120V/60Hz
Mode : AV Input-1 + Rec
Remarks : 1Vp-p input
Date : 5/15/2004
Test Distance : 3 m
Temperature : 23 °C
Humidity : 34 %
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]		HOR [dB]	VER [dB]
1.	438.74	BB	27.4	34.4	19.0	27.9	4.7	6.0	29.2	36.2	46.0	16.8	9.8

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

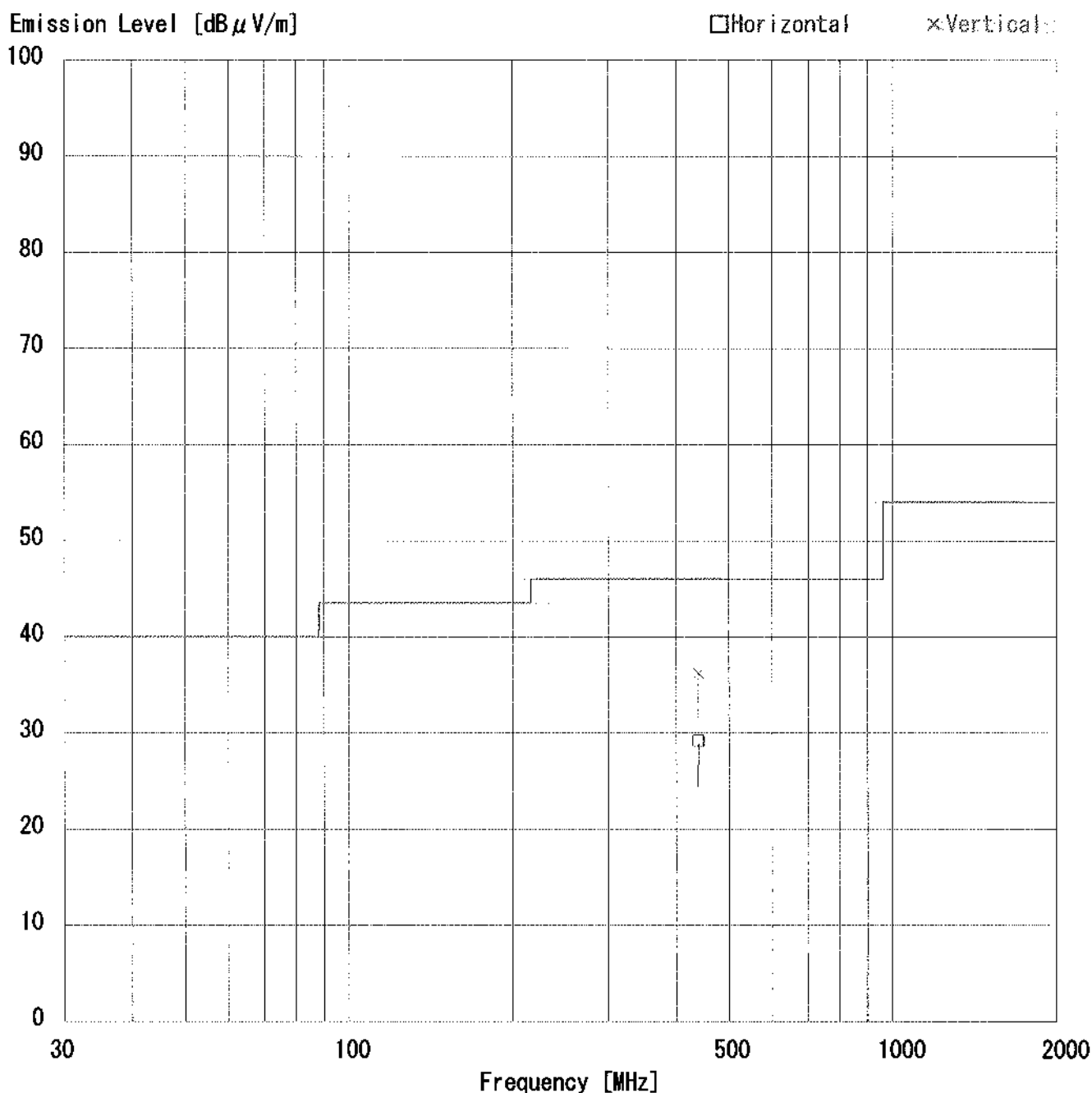
Except for the above table: adequate margin data below the limits.
ANT.TYPE:30-300MHz Biconical, 300-1000MHz Logperiodic

DATA OF RADIATION TEST

UL Apex Co., Ltd.
YOKOWA No.3 OPEN TEST SITE
Report No. : 24JE0051-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V392SUA
Serial No. : -
Power : AC120V/60Hz
Mode : AV Input-1 + Rec
Remarks : 1Vp-p input
Date : 5/15/2004
Test Distance : 3 m
Temperature : 23 °C
Humidity : 34 %
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama



DATA OF RADIATION TEST

UL Apex Co., Ltd.
YOKOWA No.3 OPEN TEST SITE
Report No. : 24JE0051-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V392SUA
Serial No. : -
Power : AC120V/60Hz
Mode : AV Input-1 + Rec
Remarks : 5Vp-p input
Date : 5/15/2004
Test Distance : 3 m
Temperature : 23 °C
Humidity : 34 %
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]		HOR [dB]	VER [dB]
1.	162.00	BB	28.4	26.3	15.6	28.1	2.5	5.9	24.3	22.2	43.5	19.2	21.3
2.	168.75	BB	25.8	26.2	15.9	28.1	2.6	5.9	22.1	22.5	43.5	21.4	21.0
3.	202.50	BB	30.6	29.6	16.5	28.0	2.9	5.9	27.9	26.9	43.5	15.6	16.6
4.	248.91	BB	27.0	22.0	17.1	27.9	3.3	6.0	25.5	20.5	46.0	20.5	25.5
5.	438.74	BB	26.2	35.5	19.0	27.9	4.7	6.0	28.0	37.3	46.0	18.0	8.7
6.	472.48	BB	32.0	32.4	19.4	27.9	5.0	6.0	34.5	34.9	46.0	11.5	11.1
7.	674.98	BB	27.2	29.2	20.9	27.4	6.1	6.0	32.8	34.8	46.0	13.2	11.2

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

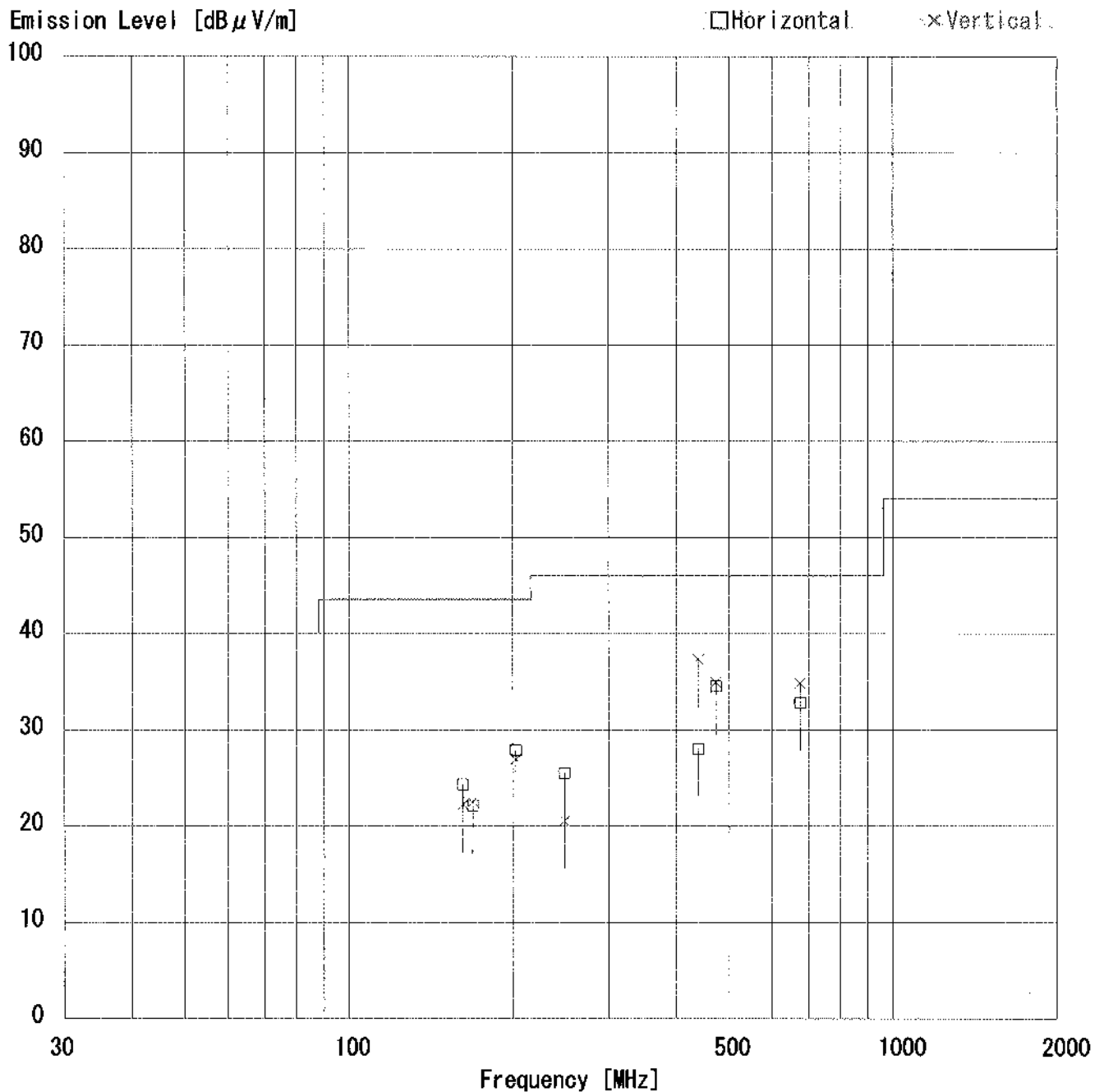
Except for the above table: adequate margin data below the limits.
ANT. TYPE: 30-300MHz Biconical, 300-1000MHz Logperiodic

DATA OF RADIATION TEST

UL Apex Co., Ltd.
YOKOWA No.3 OPEN TEST SITE
Report No. : 24JE0051-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V392SUA
Serial No. : -
Power : AC120V/60Hz
Mode : AV Input-1 + Rec
Remarks : 5Vp-p input
Date : 5/15/2004
Test Distance : 3 m
Temperature : 23 °C
Humidity : 34 %
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama



DATA OF RADIATION TEST

UL Apex Co., Ltd.
YOKOWA No.3 OPEN TEST SITE
Report No. : 24JE0051-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V392SUA
Serial No. : -
Power : AC120V/60Hz
Mode : AV Input-2 + Rec
Remarks : 1Vp-p input
Date : 5/15/2004
Test Distance : 3 m
Temperature : 23 °C
Humidity : 34 %
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
			HOR [dB μ V]	VER [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]	[dB μ V/m]	[dB μ V/m]	HOR [dB]	VER [dB]
1.	472.49	BB	29.0	32.9	19.4	27.9	5.0	6.0	31.5	35.4	46.0	14.5	10.6	

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

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

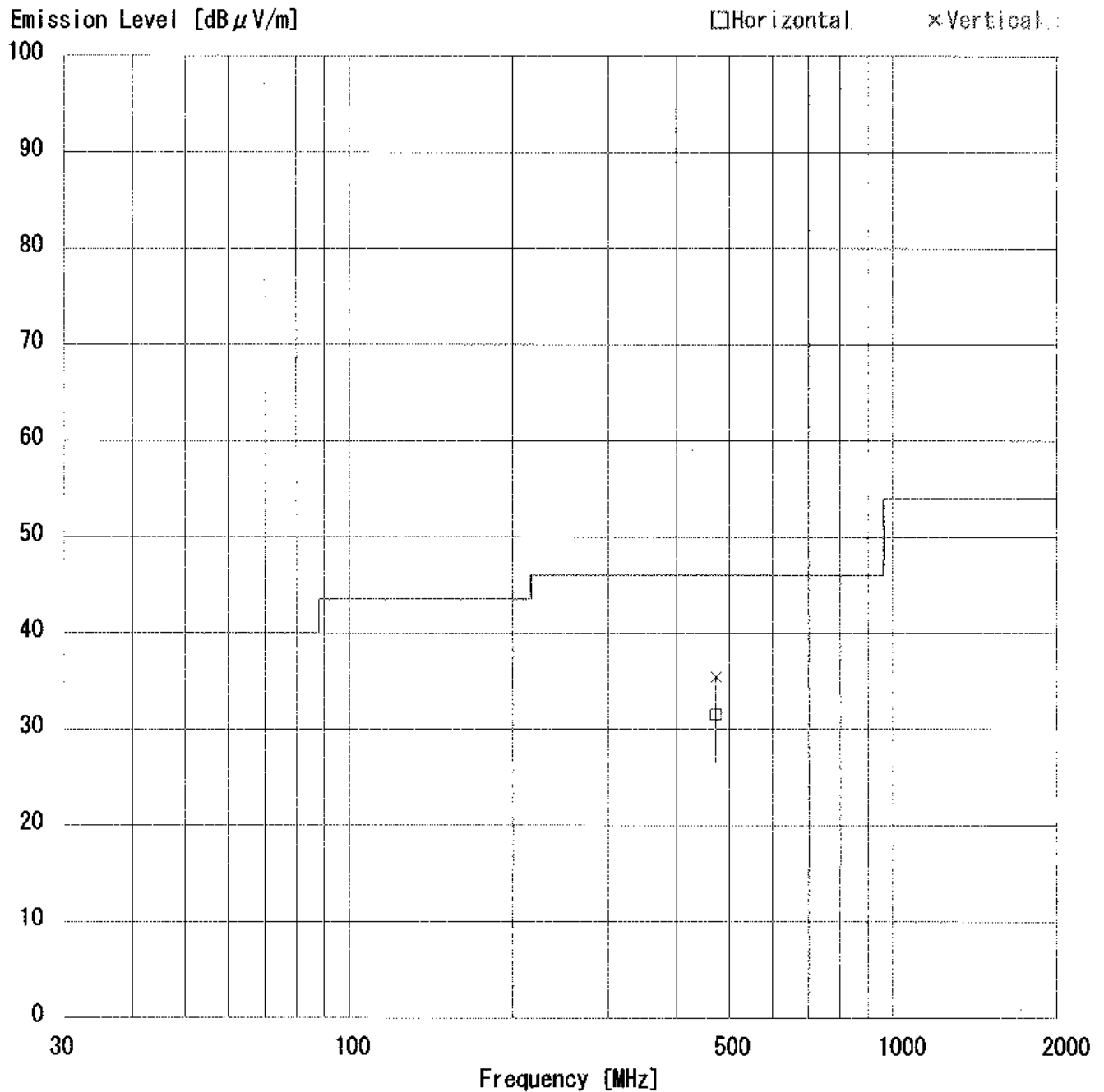
ANT.TYPE:30-300MHz Biconical, 300-1000MHz Logperiodic

DATA OF RADIATION TEST

UL Apex Co., Ltd.
YOKOWA No.3 OPEN TEST SITE
Report No. : 24JE0051-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V392SUA
Serial No. : -
Power : AC120V/60Hz
Mode : AV Input-2 + Rec
Remarks : 1Vp-p input
Date : 5/15/2004
Test Distance : 3 m
Temperature : 23 °C
Humidity : 34 %
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama



DATA OF RADIATION TEST

UL Apex Co., Ltd.
YOKOWA No.3 OPEN TEST SITE
Report No. : 24JE0051-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V392SUA
Serial No. : -
Power : AC120V/60Hz
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Remarks : 5Vp-p input
Date : 5/15/2004
Test Distance : 3 m
Temperature : 23 °C
Humidity : 34 %
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]		HOR [dB]	VER [dB]
1.	162.00	BB	28.7	31.3	15.6	28.1	2.5	5.9	24.6	27.2	43.5	18.9	16.3
2.	168.75	BB	25.5	28.2	15.9	28.1	2.6	5.9	21.8	24.5	43.5	21.7	19.0
3.	202.51	BB	29.5	30.3	16.5	28.0	2.9	5.9	26.8	27.6	43.5	16.7	15.9
4.	248.91	BB	28.0	27.2	17.1	27.9	3.3	6.0	26.5	25.7	46.0	19.5	20.3
5.	438.73	BB	29.8	33.7	19.0	27.9	4.7	6.0	31.6	35.5	46.0	14.4	10.5
6.	472.49	BB	30.8	33.1	19.4	27.9	5.0	6.0	33.3	35.6	46.0	12.7	10.4
7.	674.98	BB	24.8	26.5	20.9	27.4	6.1	6.0	30.4	32.1	46.0	15.6	13.9

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

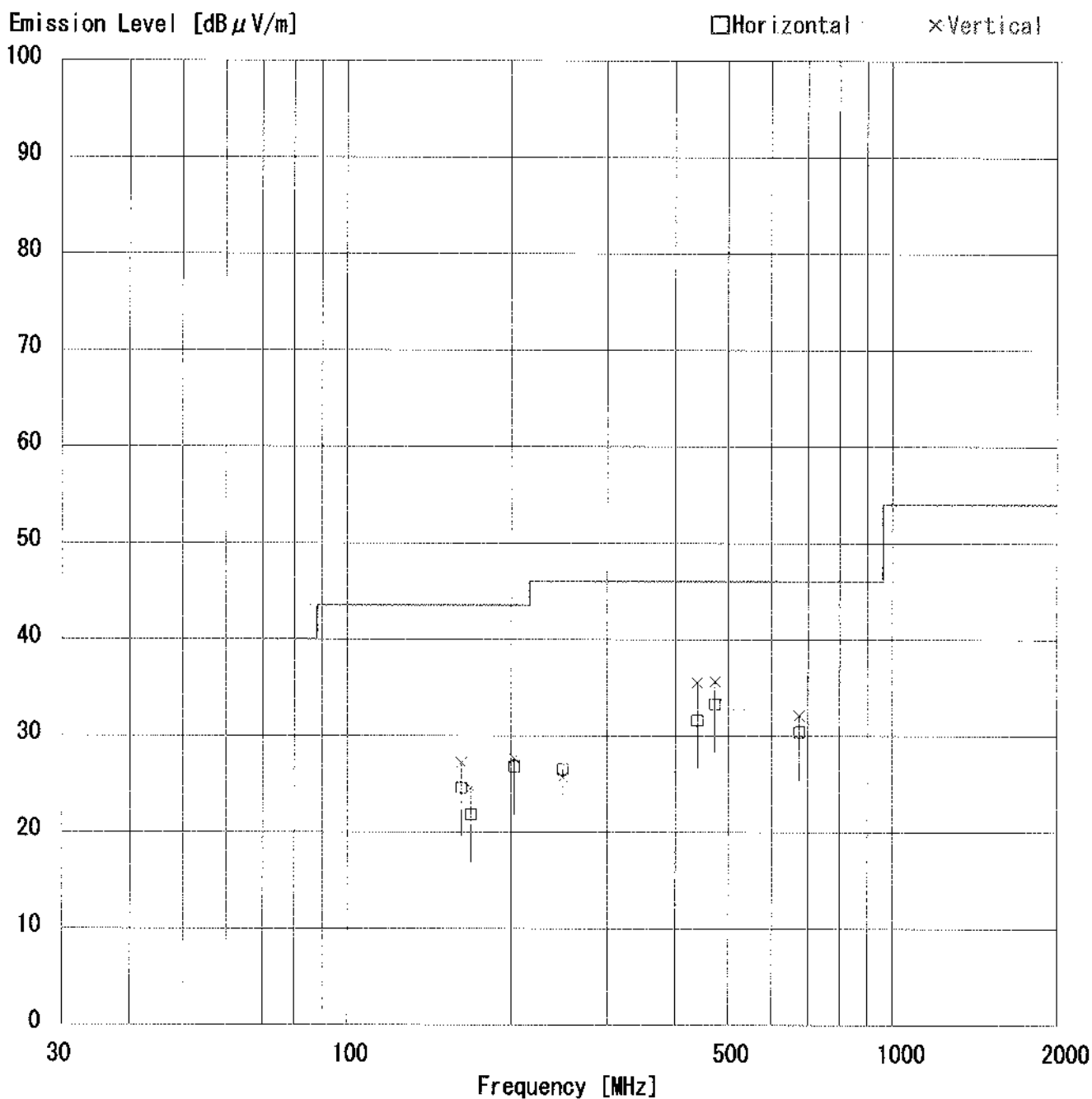
Except for the above table: adequate margin data below the limits.
ANT. TYPE: 30-300MHz Biconical, 300-1000MHz Logperiodic

DATA OF RADIATION TEST

UL Apex Co., Ltd.
YOKOWA No.3 OPEN TEST SITE
Report No. : 24JE0051-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V392SUA
Serial No. : -
Power : AC120V/60Hz
Mode : AV Input-2 + Rec
Remarks : 5Vp-p input
Date : 5/15/2004
Test Distance : 3 m
Temperature : 23 °C
Humidity : 34 %
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama



DATA OF RADIATION TEST

UL Apex Co., Ltd.
YOKOWA No.3 OPEN TEST SITE
Report No. : 24JE0051-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V392SUA
Serial No. : -
Power : AC120V/60Hz
Mode : VCR Playback
Remarks : -
Date : 5/15/2004
Test Distance : 3 m
Temperature : 23 °C
Humidity : 34 %
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μV/m]	MARGIN	
			HOR [dB μV]	VER [dB μV]					HOR [dB μV/m]	VER [dB μV/m]		HOR [dB]	VER [dB]
1.	162.00	BB	28.4	32.0	15.6	28.1	2.5	5.9	24.3	27.9	43.5	19.2	15.6
2.	168.75	BB	24.2	29.6	15.9	28.1	2.6	5.9	20.5	25.9	43.5	23.0	17.6
3.	202.51	BB	30.0	29.7	16.5	28.0	2.9	5.9	27.3	27.0	43.5	16.2	16.5
4.	248.92	BB	28.0	24.6	17.1	27.9	3.3	6.0	26.5	23.1	46.0	19.5	22.9
5.	438.73	BB	29.7	34.8	19.0	27.9	4.7	6.0	31.5	36.6	46.0	14.5	9.4
6.	472.49	BB	31.1	32.9	19.4	27.9	5.0	6.0	33.6	35.4	46.0	12.4	10.6
7.	674.98	BB	27.1	28.8	20.9	27.4	6.1	6.0	32.7	34.4	46.0	13.3	11.6

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

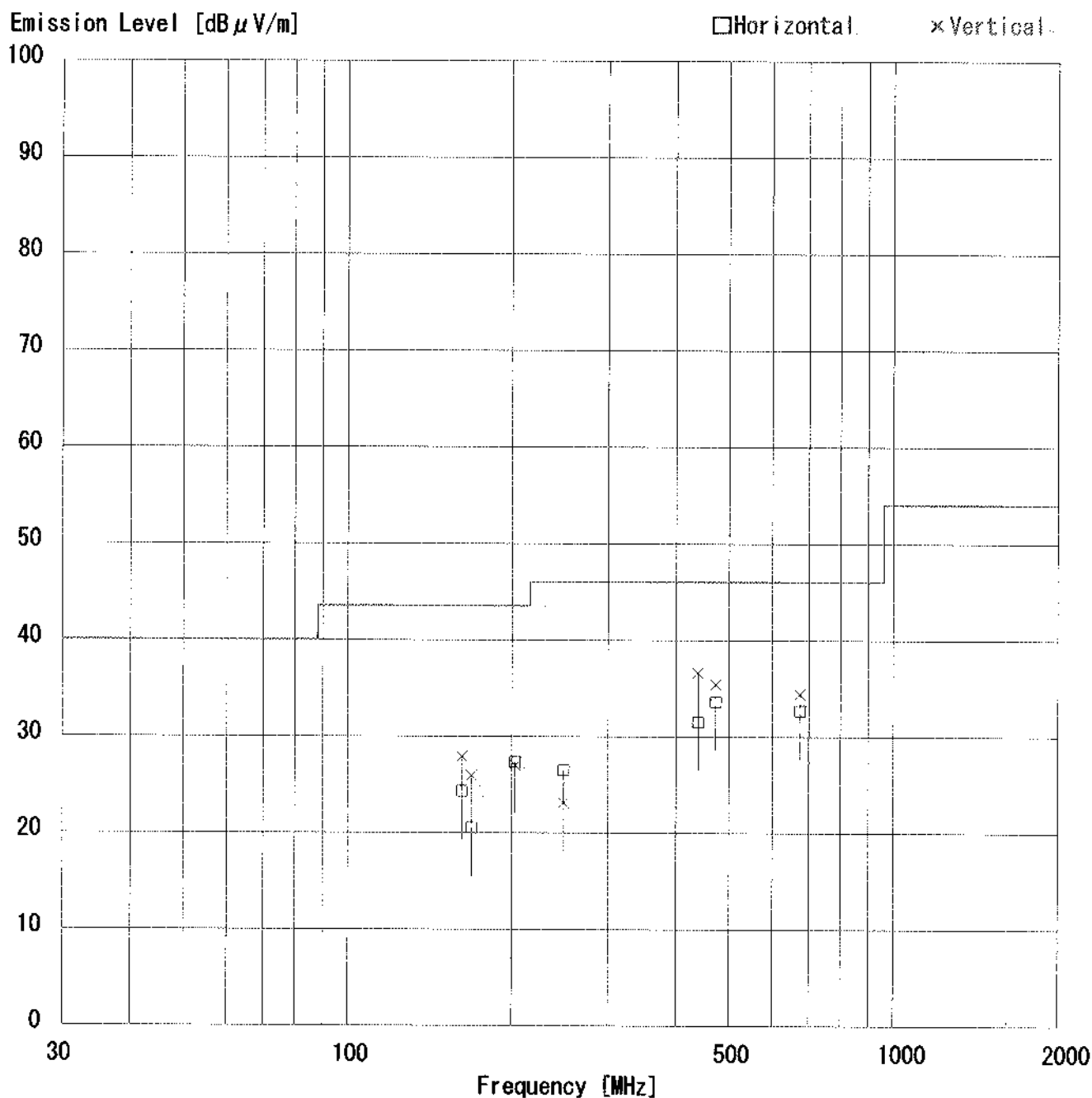
Except for the above table: adequate margin data below the limits.
ANT. TYPE: 30-300MHz Biconical, 300-1000MHz Logperiodic

DATA OF RADIATION TEST

UL Apex Co., Ltd.
YOKOWA No.3 OPEN TEST SITE
Report No. : 24JE0051-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V392SUA
Serial No. : -
Power : AC120V/60Hz
Mode : VCR Playback
Remarks : -
Date : 5/15/2004
Test Distance : 3 m
Temperature : 23 °C
Humidity : 34 %
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama



DATA OF RADIATION TEST

UL Apex Co., Ltd.
YOKOWA No.3 OPEN TEST SITE
Report No. : 24JE0051-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V392SUA
Serial No. : -
Power : AC120V/60Hz
Mode : DVD Play
Remarks : -
Date : 5/15/2004
Test Distance : 3 m
Temperature : 23 °C
Humidity : 34 %
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]		HOR [dB]	VER [dB]
1.	57.27	BB	38.0	38.2	8.2	28.4	1.4	5.9	25.1	25.3	40.0	14.9	14.7
2.	85.92	BB	33.0	41.4	7.7	28.2	1.8	5.9	20.2	28.6	40.0	19.8	11.4
3.	114.55	BB	36.4	43.4	12.6	28.2	2.1	5.9	28.8	35.8	43.5	14.7	7.7
4.	192.02	BB	29.0	27.4	16.5	28.0	2.8	5.9	26.2	24.6	43.5	17.3	18.9
5.	259.25	BB	38.7	32.4	17.7	27.9	3.4	6.0	37.9	31.6	46.0	8.1	14.4
6.	269.99	BB	33.6	33.7	18.3	27.9	3.5	6.0	33.5	33.6	46.0	12.5	12.4
7.	405.00	BB	37.2	34.6	18.7	27.9	4.5	6.0	38.5	35.9	46.0	7.5	10.1
8.	438.73	BB	31.2	32.1	19.0	27.9	4.7	6.0	33.0	33.9	46.0	13.0	12.1
9.	540.00	BB	31.1	27.2	19.9	27.8	5.4	6.0	34.6	30.7	46.0	11.4	15.3

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

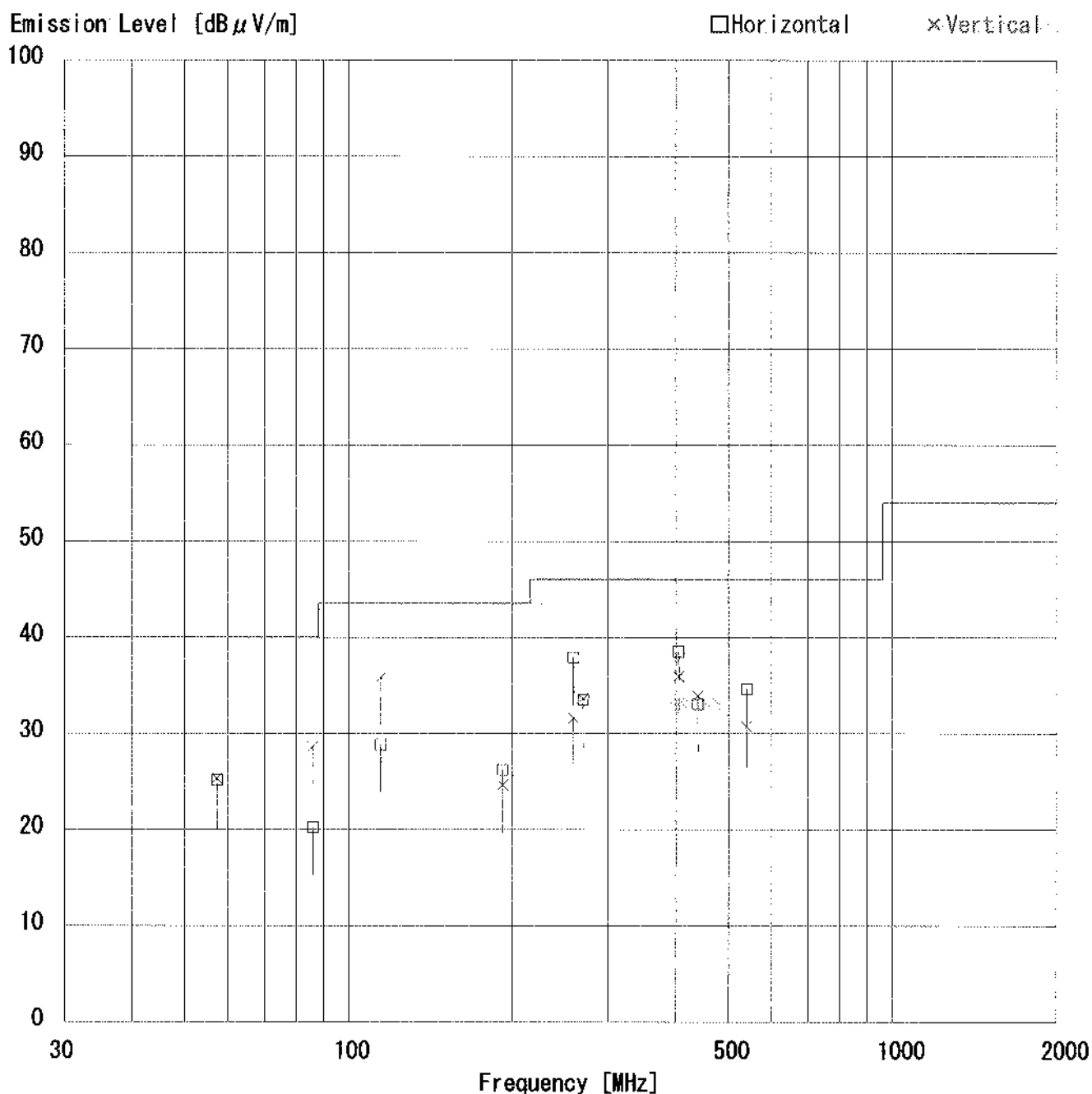
Except for the above table: adequate margin data below the limits.
ANT.TYPE:30-300MHz Biconical, 300-1000MHz Logperiodic

DATA OF RADIATION TEST

UL Apex Co., Ltd.
YOKOWA No.3 OPEN TEST SITE
Report No. : 24JE0051-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V392SUA
Serial No. : -
Power : AC120V/60Hz
Mode : DVD Play
Remarks : -
Date : 5/15/2004
Test Distance : 3 m
Temperature : 23 °C
Humidity : 34 %
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama



DATA OF RADIATION TEST

UL Apex Co., Ltd.
YOKOWA No.3 OPEN TEST SITE
Report No. : 24JE0051-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V392SUA
Serial No. : -
Power : AC120V/60Hz
Mode : DVD Play
Remarks :
Date : 5/16/2004
Test Distance : 3 m
Temperature : 23 °C Engineer : Tsubasa Takayama
Humidity : 68 %
Regulation : FCC Part15B CLASS B(Peak Limit / Upper1GHz)

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]		HOR [dB]	VER [dB]
1.	1012.20	BB	47.8	51.5	25.7	35.4	1.4	0.0	39.5	43.2	74.0	34.5	30.8
2.	1147.59	BB	47.1	50.2	26.3	35.3	1.6	0.0	39.7	42.8	74.0	34.3	31.2
3.	1214.74	BB	45.7	49.4	26.7	35.2	1.6	0.0	38.8	42.5	74.0	35.2	31.5

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

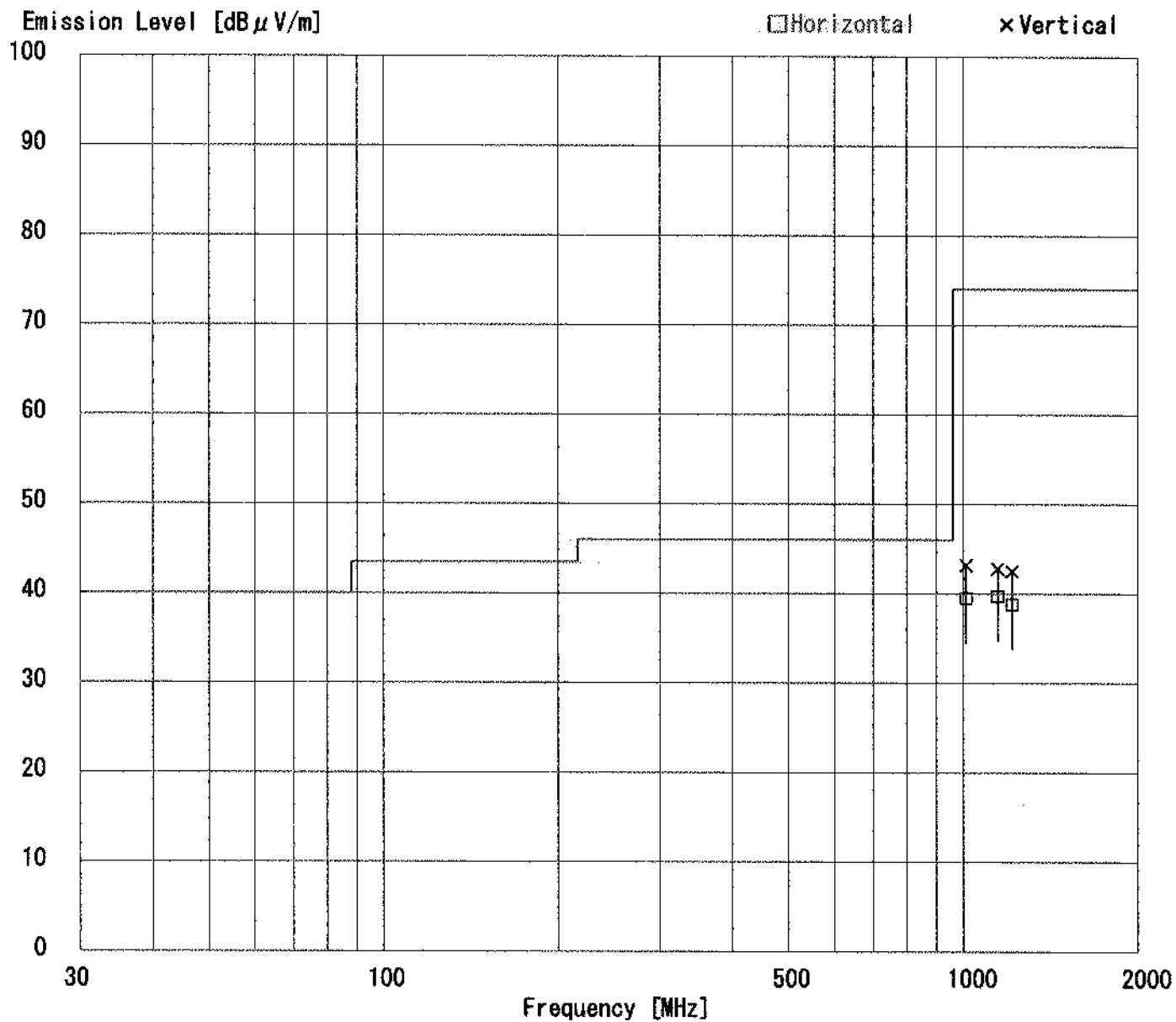
Except for the above table: adequate margin data below the limits.

DATA OF RADIATION TEST

UL Apex Co., Ltd.
YOKOWA No.3 OPEN TEST SITE
Report No. : 24JE0051-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V392SUA
Serial No. : -
Power : AC120V/60Hz
Mode : DVD Play
Remarks :
Date : 5/16/2004
Test Distance : 3 m
Temperature : 23 °C
Humidity : 68 %
Regulation : FCC Part15B CLASS B(Peak Limit / Upper1GHz)

Engineer : Tsubasa Takayama



DATA OF RADIATION TEST

UL Apex Co., Ltd.
YOKOWA No.3 OPEN TEST SITE
Report No. : 24JE0051-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V392SUA
Serial No. : -
Power : AC120V/60Hz
Mode : DVD Play
Remarks :
Date : 5/16/2004
Test Distance : 3 m
Temperature : 23 °C
Humidity : 68 %
Regulation : FCC Part15B CLASS B (Average Limit / Upper1GHz)

Engineer : Tsubasa Takayama

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μV/m]	MARGIN	
			HOR [dB μV]	VER [dB μV]					HOR [dB μV/m]	VER [dB μV/m]		HOR [dB]	VER [dB]
1.	1012.20	BB	34.7	40.6	25.7	35.4	1.4	0.0	26.4	32.3	59.9	33.5	27.6
2.	1147.59	BB	37.0	42.1	26.3	35.3	1.6	0.0	29.6	34.7	59.9	30.3	25.2
3.	1214.74	BB	34.4	39.7	26.7	35.2	1.6	0.0	27.5	32.8	59.9	32.4	27.1

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

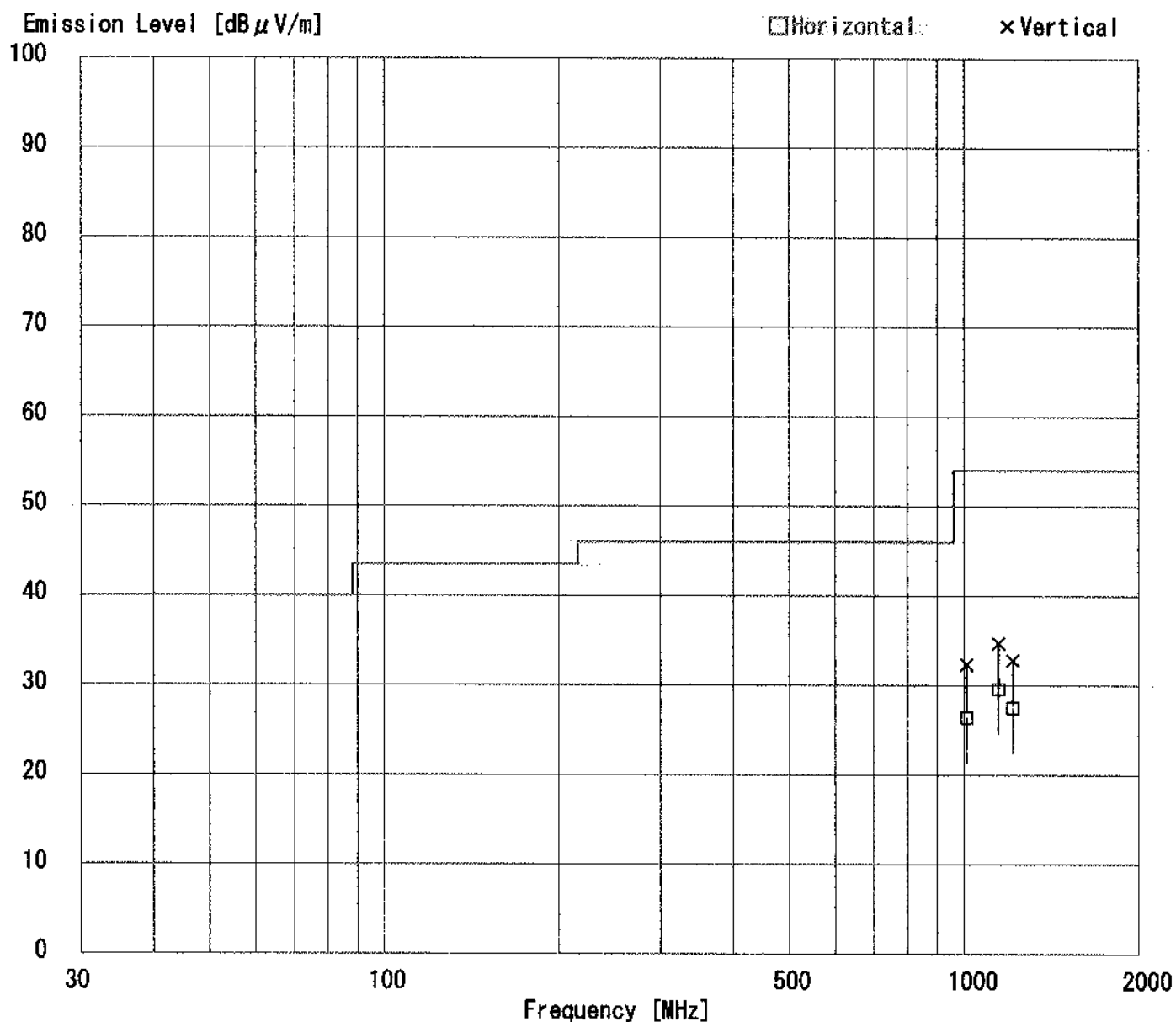
Except for the above table: adequate margin data below the limits.

DATA OF RADIATION TEST

UL Apex Co., Ltd.
YOKOWA No.3 OPEN TEST SITE
Report No. : 24JE0051-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V392SUA
Serial No. : -
Power : AC120V/60Hz
Mode : DVD Play
Remarks :
Date : 5/16/2004
Test Distance : 3 m
Temperature : 23 °C
Humidity : 68 %
Regulation : FCC Part15B CLASS B (Average Limit / Upper1GHz)

Engineer : Tsubasa Takayama



DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.3 OPEN TEST SITE

Report No. : 24JE0051-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V392SUA
Serial No. : -
Power : AC120V/60Hz
Mode : DVD Play
Remarks : Test Channel #3
Date : 5/15/2004
Test Distance : 3 m
Temperature : 23 °C
Humidity : 34 %
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]		HOR [dB]	VER [dB]
1.	61.25	BB	23.8	24.3	7.4	28.4	1.5	5.9	10.2	10.7	40.0	29.8	29.3
2.	65.75	BB	26.3	25.9	7.0	28.3	1.5	5.9	12.4	12.0	40.0	27.6	28.0
3.	122.50	BB	23.7	23.6	13.6	28.2	2.2	5.9	17.2	17.1	43.5	26.3	26.4
4.	245.00	BB	21.7	21.4	17.0	27.9	3.3	6.0	20.1	19.8	46.0	25.9	26.2

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

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

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

DATA OF RADIATION TEST

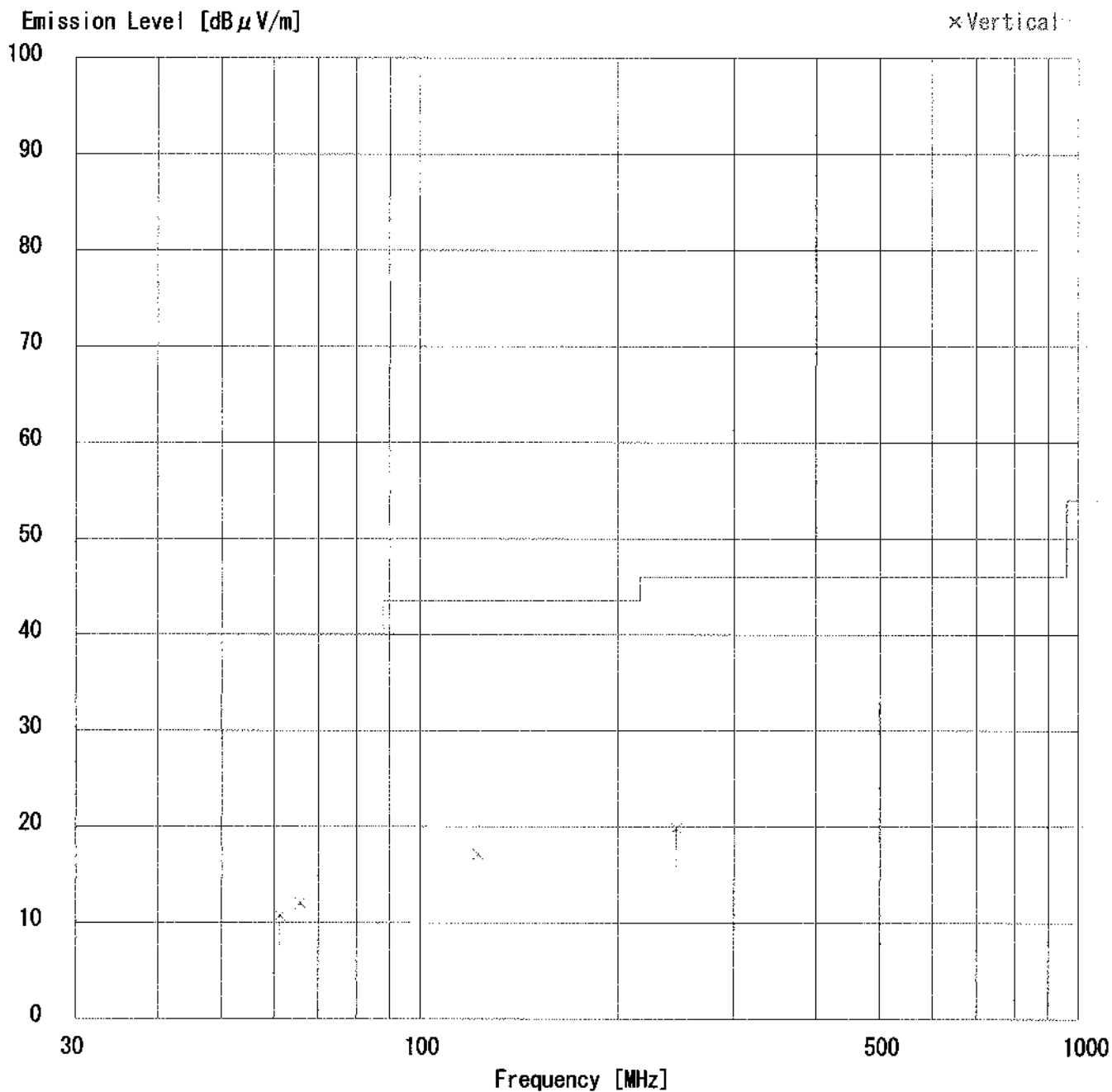
UL Apex Co., Ltd.

YOKOWA No.3 OPEN TEST SITE

Report No. : 24JE0051-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V392SUA
Serial No. : -
Power : AC120V/60Hz
Mode : DVD Play
Remarks : Test Channel #3
Date : 5/15/2004
Test Distance : 3 m
Temperature : 23 °C
Humidity : 34 %
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama



DATA OF RADIATION TEST

UL Apex Co., Ltd.

YOKOWA No.3 OPEN TEST SITE

Report No. : 24JE0051-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V392SUA
Serial No. : -
Power : AC120V/60Hz
Mode : DVD Play
Remarks : Test Channel #4
Date : 5/15/2004
Test Distance : 3 m
Temperature : 23 °C
Humidity : 34 %
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]		HOR [dB]	VER [dB]
1.	67.25	BB	23.6	24.0	6.8	28.3	1.6	5.9	9.6	10.0	40.0	30.4	30.0
2.	71.75	BB	24.1	23.3	6.6	28.3	1.6	5.9	9.9	9.1	40.0	30.1	30.9
3.	134.50	BB	28.9	26.5	14.3	28.2	2.3	5.9	23.2	20.8	43.5	20.3	22.7
4.	201.75	BB	22.7	21.7	16.5	28.0	2.9	5.9	20.0	19.0	43.5	23.5	24.5

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

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

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

DATA OF RADIATION TEST

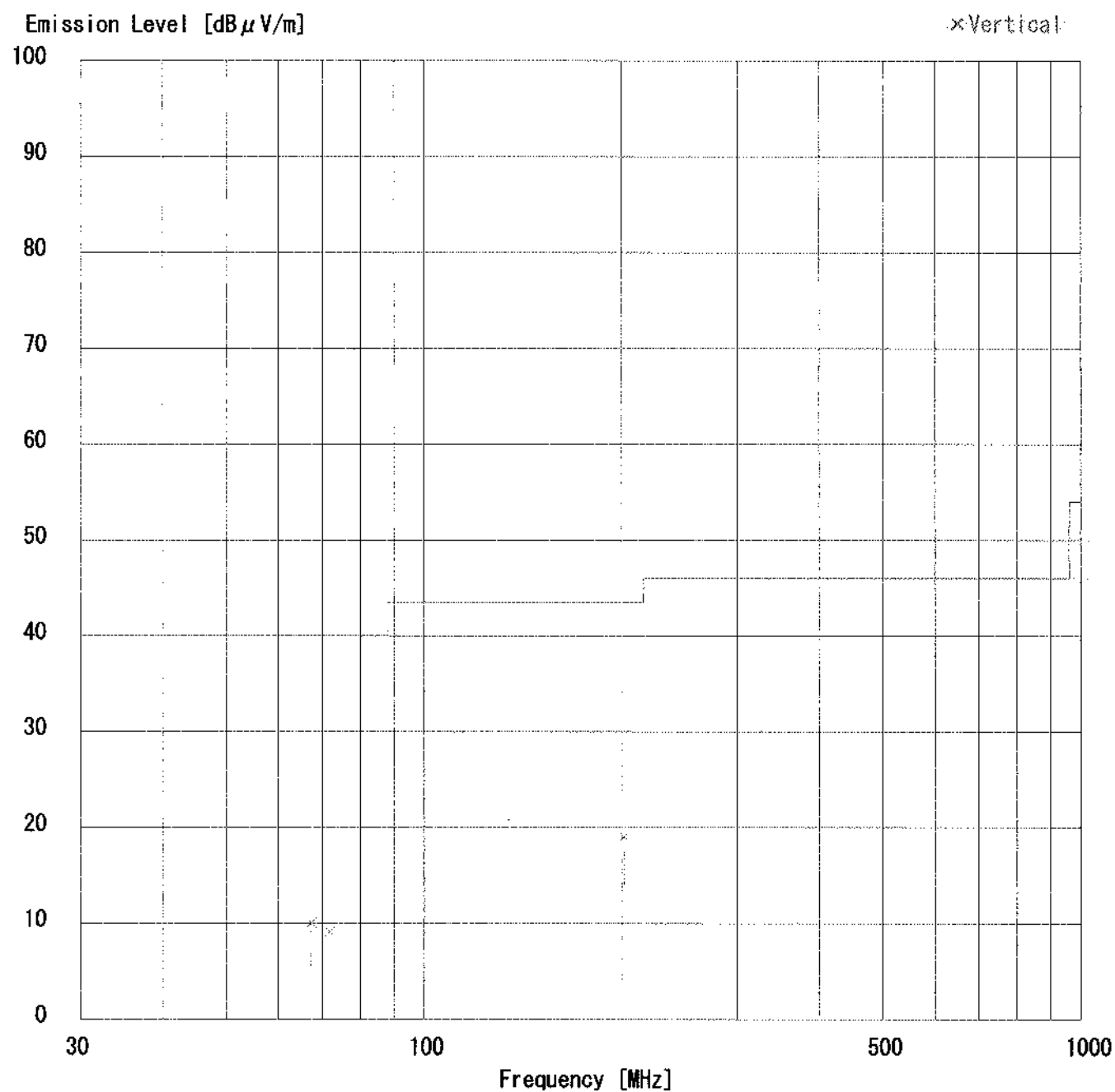
UL Apex Co., Ltd.

YOKOWA No.3 OPEN TEST SITE

Report No. : 24JE0051-YW-1

Applicant : Orion Electric Co., Ltd.
Kind of Equipment : DVD/VCR
Model No. : SD-V392SUA
Serial No. : -
Power : AC120V/60Hz
Mode : DVD Play
Remarks : Test Channel #4
Date : 5/15/2004
Test Distance : 3 m
Temperature : 23 °C
Humidity : 34 %
Regulation : FCC Part15B CLASS B

Engineer : Tsubasa Takayama



DATA OF ANTENNA TERMINAL TEST

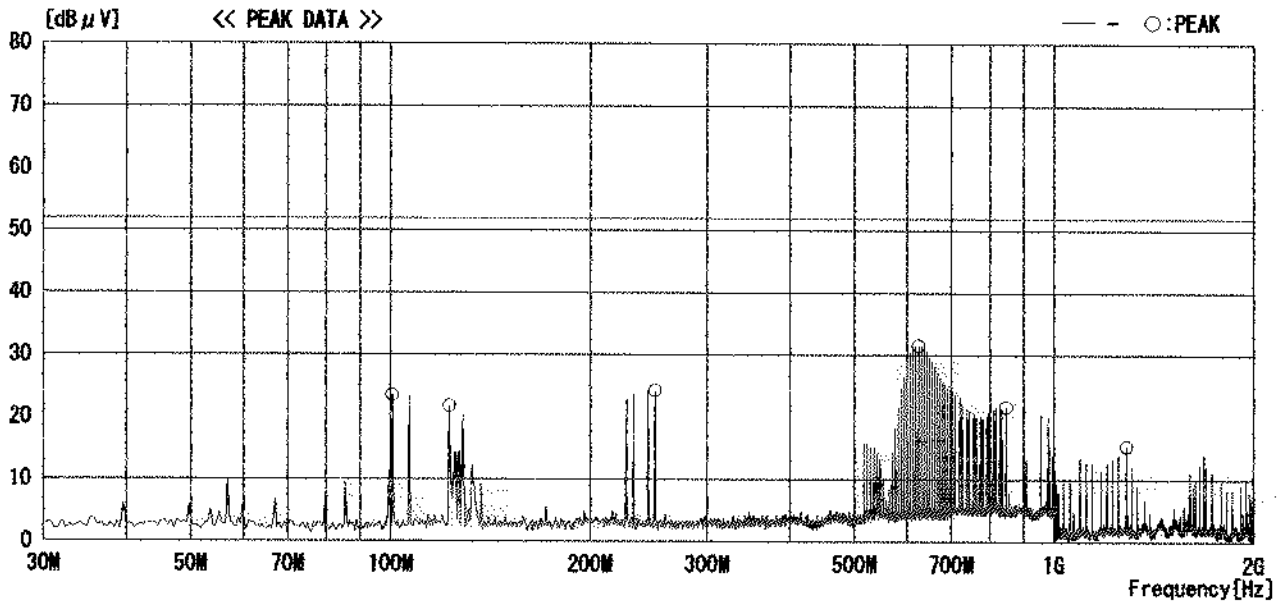
UL Apex Co., Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : SD-V392SUA
OPERATION MODE : TV Tuning mode

REPORT NO : 24JE0051-YW-1
DATE : May 21, 2004
REGULATION : FCC 15B
TEST ENGINEER : Tsubasa Takayama

TEMP./HUMID. : 26°C/68%

LIMIT : FCC 15B ANTENNA TERMINAL



NO	FREQ [MHz]	READING PEAK [dB μ V]	C. F [dB]	RESULT [dB μ V]	LIMIT		MARGIN		PHASE
					QP [dB μ V]	AV [dB μ V]	QP [dB]	AV [dB]	
1	100.66400	50.2	-26.7	23.5	52.0	—	28.5	—	—
2	122.57810	48.5	-26.7	21.8	52.0	—	30.2	—	—
3	250.69350	51.0	-26.7	24.3	52.0	—	27.7	—	—
4	624.85330	58.2	-26.6	31.6	52.0	—	20.4	—	—
5	846.57740	48.5	-26.8	21.7	52.0	—	30.3	—	—
6	1285.69500	45.5	-30.1	15.4	52.0	—	36.6	—	—

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

DATA OF ANTENNA TERMINAL TEST

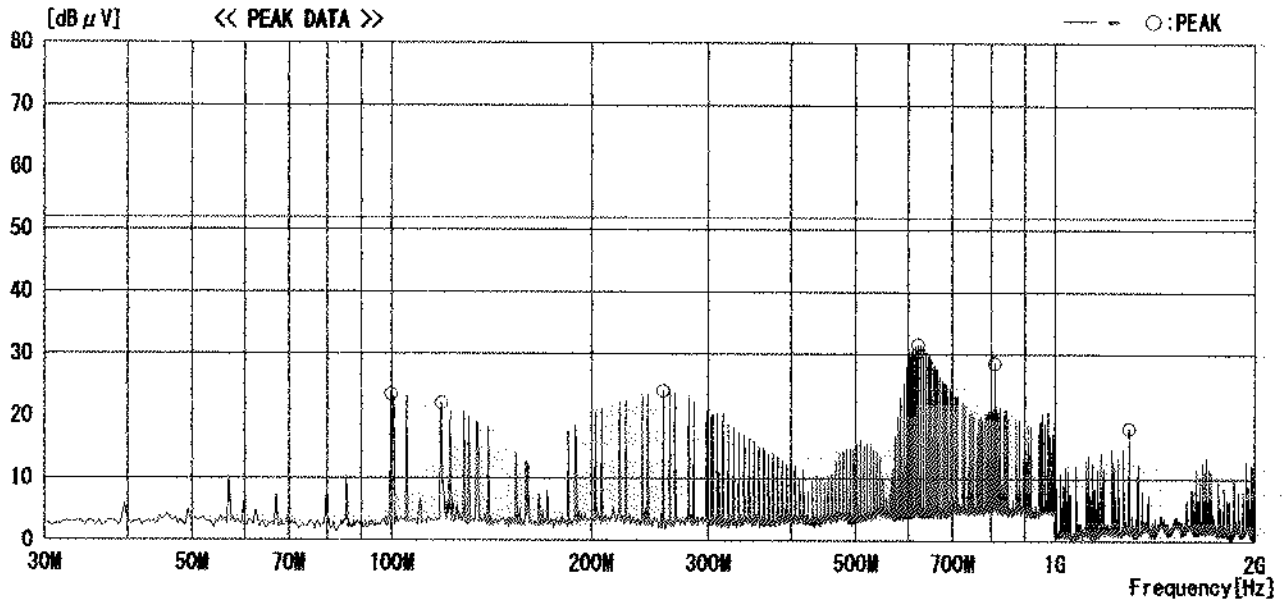
UL Apex Co., Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : SD-V392SUA
OPERATION MODE : CATV Tuning mode

REPORT NO : 24JE0051-YW-1
DATE : May 21, 2004
REGULATION : FCC 15B
TEST ENGINEER : Tsubasa Takayama

TEMP./HUMID. : 26°C/68%

LIMIT : FCC 15B ANTENNA TERMINAL



NO	FREQ [MHz]	READING PEAK [dB μ V]	C. F [dB]	RESULT [dB μ V]	LIMIT		MARGIN		PHASE
					QP [dB μ V]	AV [dB μ V]	QP [dB]	AV [dB]	
1	99.82113	50.2	-26.7	23.5	52.0	—	28.5	—	—
2	118.78520	48.8	-26.7	22.1	52.0	—	29.9	—	—
3	256.59350	50.8	-26.7	24.1	52.0	—	27.9	—	—
4	621.71060	58.2	-26.6	31.6	52.0	—	20.4	—	—
5	811.00450	55.2	-26.6	28.6	52.0	—	23.4	—	—
6	1292.12400	48.2	-30.1	18.1	52.0	—	33.9	—	—

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	: 24JE0051-YW-1
Equipment	: DVD/VCR	Regulation	: FCC Part 15B Subpart B
Model number	: SD-V392SUA	Date	: May 21, 2004
Power	: AC 120 V / 60 Hz	Temp./Humid	: 24°C/34%
Description	: TV Reception + Rec (0dBmV)	Engineer	: Tsubasa Takayama

Video signal

Ch.	Frequency [MHz]	Meter reading [dBuV]	Correction factor [dB]	Result [dB]	Limits [dBuV]	Margin [dB]
3	61.25	95.3	31.9	63.4	69.5	6.1
4	67.25	95.1	31.9	63.2	69.5	6.3

Audio signal

Ch.	Frequency [MHz]	Meter reading [dBuV]	Correction factor [dB]	Result [dB]	Limits [dBuV]	Margin [dB]
3	56.75	81.2	31.9	49.3	56.5	7.2
	65.75	80.3	31.9	48.4	56.5	8.1
4	62.75	81.1	31.9	49.2	56.5	7.3
	71.75	79.4	31.9	47.5	56.5	9.0

RF output level

UL Apex Co., LTD.
YOKOWA EMC LAB.

Company	: Orion Electric Co.,Ltd.	Report Number	: 24JE0051-YW-1
Equipment	: DVD/VCR	Regulation	: FCC Part15B Subpart B
Model number	: SD-V392SUA	Date	: May 21,2004
Power	: AC 120 V / 60 Hz	Temp./Humid	: 24°C/34%
Description	: TV Reception + Rec(25dBmV)	Engineer	: Tsubasa Takayama

Video signal

Ch.	Frequency [MHz]	Meter reading [dBuV]	Correction factor [dB]	Result [dB]	Limits [dBuV]	Margin [dB]
3	61.25	95.4	31.9	63.5	69.5	6.0
4	67.25	95.6	31.9	63.7	69.5	5.8

Audio signal

Ch.	Frequency [MHz]	Meter reading [dBuV]	Correction factor [dB]	Result [dB]	Limits [dBuV]	Margin [dB]
3	56.75	82.0	31.9	50.1	56.5	6.4
	65.75	80.9	31.9	49.0	56.5	7.5
4	62.75	81.2	31.9	49.3	56.5	7.2
	71.75	80.6	31.9	48.7	56.5	7.8

RF output level

UL Apex Co., LTD.
YOKOWA EMC LAB.

Company	: Orion Electric Co.,Ltd.	Report Number	: 24JE0051-YW-1
Equipment	: DVD/VCR	Regulation	: FCC Part15B Subpart B
Model number	: SD-V392SUA	Date	: May 21,2004
Power	: AC 120 V / 60 Hz	Temp./Humid	: 24°C/34%
Description	: AV Input1 + Rec(1Vp-p)	Engineer	: Tsubasa Takayama

Video signal

Ch.	Frequency [MHz]	Meter reading [dBuV]	Correction factor [dB]	Result [dB]	Limits [dBuV]	Margin [dB]
3	61.25	95.3	31.9	63.4	69.5	6.1
4	67.25	94.7	31.9	62.8	69.5	6.7

Audio signal

Ch.	Frequency [MHz]	Meter reading [dBuV]	Correction factor [dB]	Result [dB]	Limits [dBuV]	Margin [dB]
3	56.75	81.7	31.9	49.8	56.5	6.7
	65.75	80.3	31.9	48.4	56.5	8.1
4	62.75	80.5	31.9	48.6	56.5	7.9
	71.75	79.2	31.9	47.3	56.5	9.2

RF output level

UL Apex Co., LTD.
YOKOWA EMC LAB.

Company	: Orion Electric Co.,Ltd.	Report Number	: 24JE0051-YW-1
Equipment	: DVD/VCR	Regulation	: FCC Part15B Subpart B
Model number	: SD-V392SUA	Date	: May 21,2004
Power	: AC 120 V / 60 Hz	Temp./Humid	: 24°C/34%
Description	: AV Input1 + Rec(5Vp-p)	Engineer	: Tsubasa Takayama

Video signal

Ch.	Frequency [MHz]	Meter reading [dBuV]	Correction factor [dB]	Result [dB]	Limits [dBuV]	Margin [dB]
3	61.25	94.2	31.9	62.3	69.5	7.2
4	67.25	94.5	31.9	62.6	69.5	6.9

Audio signal

Ch.	Frequency [MHz]	Meter reading [dBuV]	Correction factor [dB]	Result [dB]	Limits [dBuV]	Margin [dB]
3	56.75	81.3	31.9	49.4	56.5	7.1
	65.75	80.0	31.9	48.1	56.5	8.4
4	62.75	80.9	31.9	49.0	56.5	7.5
	71.75	79.5	31.9	47.6	56.5	8.9

RF output level

UL Apex Co., LTD.
YOKOWA EMC LAB.

Company	: Orion Electric Co.,Ltd.	Report Number	: 24JE0051-YW-1
Equipment	: DVD/VCR	Regulation	: FCC Part15B Subpart B
Model number	: SD-V392SUA	Date	: May 21,2004
Power	: AC 120 V / 60 Hz	Temp./Humid	: 24°C/34%
Description	: AV Input2 + Rec(1Vp-p)	Engineer	: Tsubasa Takayama

Video signal

Ch.	Frequency [MHz]	Meter reading [dBuV]	Correction factor [dB]	Result [dB]	Limits [dBuV]	Margin [dB]
3	61.25	95.3	31.9	63.4	69.5	6.1
4	67.25	95.3	31.9	63.4	69.5	6.1

Audio signal

Ch.	Frequency [MHz]	Meter reading [dBuV]	Correction factor [dB]	Result [dB]	Limits [dBuV]	Margin [dB]
3	56.75	81.3	31.9	49.4	56.5	7.1
	65.75	80.0	31.9	48.1	56.5	8.4
4	62.75	80.9	31.9	49.0	56.5	7.5
	71.75	79.6	31.9	47.7	56.5	8.8

RF output level

UL Apex Co., LTD.
YOKOWA EMC LAB.

Company : Orion Electric Co.,Ltd. Report Number : 24JE0051-YW-1
Equipment : DVD/VCR Regulation : FCC Part15B Subpart B
Model number : SD-V392SUA Date : May 21,2004
Power : AC 120 V / 60 Hz Temp./Humid : 24°C/34%
Description : AV Input2+ Rec (5Vp-p) Engineer : Tsubasa Takayama

Video signal

Ch.	Frequency [MHz]	Meter reading [dBuV]	Correction factor [dB]	Result [dB]	Limits [dBuV]	Margin [dB]
3	61.25	95.4	31.9	63.5	69.5	6.0
4	67.25	95.6	31.9	63.7	69.5	5.8

Audio signal

Ch.	Frequency [MHz]	Meter reading [dBuV]	Correction factor [dB]	Result [dB]	Limits [dBuV]	Margin [dB]
3	56.75	81.2	31.9	49.3	56.5	7.2
	65.75	80.6	31.9	48.7	56.5	7.8
4	62.75	81.1	31.9	49.2	56.5	7.3
	71.75	80.6	31.9	48.7	56.5	7.8

RF output level

UL Apex Co., LTD.
YOKOWA EMC LAB.

Company	: Orion Electric Co.,Ltd.	Report Number	: 24JE0051-YW-1
Equipment	: DVD/VCR	Regulation	: FCC Part 15B Subpart B
Model number	: SD-V392SUA	Date	: May 21, 2004
Power	: AC 120 V / 60 Hz	Temp./Humid	: 24°C/34%
Description	: VCR Playback	Engineer	: Tsubasa Takayama

Video signal

Ch.	Frequency [MHz]	Meter reading [dBuV]	Correction factor [dB]	Result [dB]	Limits [dBuV]	Margin [dB]
3	61.25	95.4	31.9	63.5	69.5	6.0
4	67.25	95.1	31.9	63.2	69.5	6.3

Audio signal

Ch.	Frequency [MHz]	Meter reading [dBuV]	Correction factor [dB]	Result [dB]	Limits [dBuV]	Margin [dB]
3	56.75	82.0	31.9	50.1	56.5	6.4
	65.75	81.4	31.9	49.5	56.5	7.0
4	62.75	81.6	31.9	49.7	56.5	6.8
	71.75	80.9	31.9	49.0	56.5	7.5

RF output level

UL Apex Co., LTD.
YOKOWA EMC LAB.

Company	: Orion Electric Co.,Ltd.	Report Number	: 24JE0051-YW-1
Equipment	: DVD/VCR	Regulation	: FCC Part15B Subpart B
Model number	: SD-V392SUA	Date	: May 21,2004
Power	: AC 120 V / 60 Hz	Temp./Humid	: 24°C/34%
Description	: DVD Play	Engineer	: Tsubasa Takayama

Video signal

Ch.	Frequency [MHz]	Meter reading [dBuV]	Correction factor [dB]	Result [dB]	Limits [dBuV]	Margin [dB]
3	61.25	95.3	31.9	63.4	69.5	6.1
4	67.25	95.6	31.9	63.7	69.5	5.8

Audio signal

Ch.	Frequency [MHz]	Meter reading [dBuV]	Correction factor [dB]	Result [dB]	Limits [dBuV]	Margin [dB]
3	56.75	81.2	31.9	49.3	56.5	7.2
	65.75	80.8	31.9	48.9	56.5	7.6
4	62.75	81.2	31.9	49.3	56.5	7.2
	71.75	80.2	31.9	48.3	56.5	8.2

DATA OF RF SUPRIOUS TEST

UL Apex Co., Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : SD-V392SUA
TEMP./HUMID. : 23°C/43%

REPORT NO : 24JE0051-YW-1
DATE : May 21, 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 [MHz]	READING		C.F [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBμV]	AV [dBμV]		QP [dBμV]	AV [dBμV]	QP [dBμV]	AV [dBμV]	QP [dB]	AV [dB]	
1	32.7000	43.6	—	-31.9	11.7	—	39.5	—	27.8	—	-
2	47.8000	44.3	—	-31.9	12.4	—	39.5	—	27.1	—	-
3	122.5000	44.5	—	-31.7	12.8	—	39.5	—	26.7	—	-
4	404.9500	39.1	—	-31.8	7.3	—	39.5	—	32.2	—	-
5	612.3300	42.3	—	-31.6	10.7	—	39.5	—	28.8	—	-
6	809.7000	44.1	—	-31.3	12.8	—	39.5	—	26.7	—	-

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/VCR
MODEL : SD-V392SUA
TEMP./HUMID. : 23°C/43%

REPORT NO : 24JE0051-YW-1
DATE : May 21, 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 [MHz]	READING		C.F [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBμV]	AV [dBμV]		QP [dBμV]	AV [dBμV]	QP [dBμV]	AV [dBμV]	QP [dB]	AV [dB]	
1	32.7000	43.6	—	-31.9	11.7	—	39.5	—	27.8	—	-
2	47.8000	44.1	—	-31.9	12.2	—	39.5	—	27.3	—	-
3	122.5000	43.7	—	-31.7	12.0	—	39.5	—	27.5	—	-
4	404.9500	39.0	—	-31.8	7.2	—	39.5	—	32.3	—	-
5	612.3300	43.2	—	-31.6	11.6	—	39.5	—	27.9	—	-
6	809.7000	43.3	—	-31.3	12.0	—	39.5	—	27.5	—	-

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/VCR
MODEL : SD-V392SUA
TEMP./HUMID. : 23°C/43%

REPORT NO : 24JE0051-YW-1
DATE : May 21, 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 [MHz]	READING		C.F [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBμV]	AV [dBμV]		QP [dBμV]	AV [dBμV]	QP [dBμV]	AV [dBμV]	QP [dB]	AV [dB]	
1	32.7000	44.3	—	-31.9	12.4	—	39.5	—	27.1	—	-
2	47.8000	44.2	—	-31.9	12.3	—	39.5	—	27.2	—	-
3	122.5000	45.3	—	-31.7	13.6	—	39.5	—	25.9	—	-
4	404.9500	38.4	—	-31.8	6.6	—	39.5	—	32.9	—	-
5	612.3300	43.2	—	-31.6	11.6	—	39.5	—	27.9	—	-
6	809.7000	45.5	—	-31.3	14.2	—	39.5	—	25.3	—	-

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/VCR
MODEL : SD-V392SUA
TEMP./HUMID. : 23°C/43%

REPORT NO : 24JE0051-YW-1
DATE : May 21, 2004
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

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

LIMIT : FCC 15B RF OUT SPURIOUS

NO	FREQ [MHz]	READING		C.F [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dB μ V]	AV [dB μ V]		QP [dB μ V]	AV [dB μ V]	QP [dB μ V]	AV [dB μ V]	QP [dB]	AV [dB]	
1	32.7000	44.3	—	-31.9	12.4	—	39.5	—	27.1	—	-
2	47.8000	44.1	—	-31.9	12.2	—	39.5	—	27.3	—	-
3	122.5000	45.6	—	-31.7	13.9	—	39.5	—	25.6	—	-
4	404.9500	39.0	—	-31.8	7.2	—	39.5	—	32.3	—	-
5	612.3300	43.3	—	-31.6	11.7	—	39.5	—	27.8	—	-
6	809.7000	43.4	—	-31.3	12.1	—	39.5	—	27.4	—	-

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/VCR
MODEL : SD-V392SUA
TEMP./HUMID. : 23°C/43%

REPORT NO : 24JE0051-YW-1
DATE : May 21, 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 [MHz]	READING		C.F [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBμV]	AV [dBμV]		QP [dBμV]	AV [dBμV]	QP [dBμV]	AV [dBμV]	QP [dB]	AV [dB]	
1	32.7000	43.8	—	-31.9	11.9	—	39.5	—	27.6	—	-
2	47.8000	43.9	—	-31.9	12.0	—	39.5	—	27.5	—	-
3	122.5000	44.9	—	-31.7	13.2	—	39.5	—	26.3	—	-
4	404.9500	38.2	—	-31.8	6.4	—	39.5	—	33.1	—	-
5	612.3300	42.3	—	-31.6	10.7	—	39.5	—	28.8	—	-
6	809.7000	44.1	—	-31.3	12.8	—	39.5	—	26.7	—	-

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/VCR
MODEL : SD-V392SUA
TEMP./HUMID. : 23°C/43%

REPORT NO : 24JE0051-YW-1
DATE : May 21, 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 [MHz]	READING		C.F [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBμV]	AV [dBμV]		QP [dBμV]	AV [dBμV]	QP [dBμV]	AV [dBμV]	QP [dB]	AV [dB]	
1	32.7000	44.5	—	-31.9	12.6	—	39.5	—	26.9	—	-
2	47.8000	44.8	—	-31.9	12.9	—	39.5	—	26.6	—	-
3	122.5000	45.8	—	-31.7	14.1	—	39.5	—	25.4	—	-
4	404.9500	39.2	—	-31.8	7.4	—	39.5	—	32.1	—	-
5	612.3300	42.3	—	-31.6	10.7	—	39.5	—	28.8	—	-
6	809.7000	45.3	—	-31.3	14.0	—	39.5	—	25.5	—	-

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/VCR
MODEL : SD-V392SUA
TEMP./HUMID. : 23°C/43%

REPORT NO : 24JE0051-YW-1
DATE : May 21, 2004
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

OPERATION MODE : VCR Playback : 3ch

LIMIT : FCC 15B RF OUT SPURIOUS

NO	FREQ [MHz]	READING		C.F [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBμV]	AV [dBμV]		QP [dBμV]	AV [dBμV]	QP [dBμV]	AV [dBμV]	QP [dB]	AV [dB]	
1	32.7000	43.6	—	-31.9	11.7	—	39.5	—	27.8	—	-
2	47.8000	44.3	—	-31.9	12.4	—	39.5	—	27.1	—	-
3	122.5000	45.0	—	-31.7	13.3	—	39.5	—	26.2	—	-
4	404.9500	39.2	—	-31.8	7.4	—	39.5	—	32.1	—	-
5	612.3300	42.3	—	-31.6	10.7	—	39.5	—	28.8	—	-
6	809.7000	43.3	—	-31.3	12.0	—	39.5	—	27.5	—	-

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/VCR
MODEL : SD-V392SUA
TEMP./HUMID. : 23°C/43%

REPORT NO : 24JE0051-YW-1
DATE : May 21, 2004
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Teubasa Takayama

OPERATION MODE : DVD Play : 3ch

LIMIT : FCC 15B RF OUT SPURIOUS

NO	FREQ [MHz]	READING		C.F [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBμV]	AV [dBμV]		QP [dBμV]	AV [dBμV]	QP [dBμV]	AV [dBμV]	QP [dB]	AV [dB]	
1	47.8000	44.3	—	-31.9	12.4	—	39.5	—	27.1	—	-
2	122.5000	45.0	—	-31.7	13.3	—	39.5	—	26.2	—	-
3	244.5600	39.3	—	-31.6	7.7	—	39.5	—	31.8	—	-
4	404.9500	39.2	—	-31.8	7.4	—	39.5	—	32.1	—	-
5	612.3300	42.3	—	-31.6	10.7	—	39.5	—	28.8	—	-
6	809.7000	43.3	—	-31.3	12.0	—	39.5	—	27.5	—	-

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/VCR
MODEL : SD-V392SUA
TEMP./HUMID. : 23°C/43%

REPORT NO : 24JE0051-YW-1
DATE : May 21, 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 [MHz]	READING		C.F [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBμV]	AV [dBμV]		QP [dBμV]	AV [dBμV]	QP [dBμV]	AV [dBμV]	QP [dB]	AV [dB]	
1	38.5400	47.1	—	-31.9	15.2	—	39.5	—	24.3	—	-
2	54.0000	41.2	—	-31.9	9.3	—	39.5	—	30.2	—	-
3	134.5000	44.6	—	-31.7	12.9	—	39.5	—	26.6	—	-
4	441.7300	39.2	—	-31.7	7.5	—	39.5	—	32.0	—	-
5	539.8700	46.7	—	-31.5	15.2	—	39.5	—	24.3	—	-
6	672.3400	45.3	—	-31.6	13.7	—	39.5	—	25.8	—	-
7	806.7000	42.8	—	-31.2	11.6	—	39.5	—	27.9	—	-

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/VCR
MODEL : SD-V392SUA
TEMP./HUMID. : 23°C/43%

REPORT NO : 24JE0051-YW-1
DATE : May 21, 2004
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

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

LIMIT : FCC 15B RF OUT SPURIOUS

NO	FREQ [MHz]	READING		C.F	RESULT		LIMIT		MARGIN		PHASE
		QP [dBμV]	AV [dBμV]		QP [dBμV]	AV [dBμV]	QP [dBμV]	AV [dBμV]	QP [dB]	AV [dB]	
1	38.5400	47.3	—	-31.9	15.4	—	39.5	—	24.1	—	-
2	134.1200	45.7	—	-31.7	14.0	—	39.5	—	25.5	—	-
3	489.6100	37.8	—	-31.7	6.1	—	39.5	—	33.4	—	-
4	539.8700	45.7	—	-31.5	14.2	—	39.5	—	25.3	—	-
5	806.7000	43.7	—	-31.2	12.5	—	39.5	—	27.0	—	-
6	870.1200	40.3	—	-31.8	8.5	—	39.5	—	31.0	—	-

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/VCR
MODEL : SD-V392SUA
TEMP./HUMID. : 23°C/43%

REPORT NO : 24JE0051-YW-1
DATE : May 21, 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 [MHz]	READING		C. F [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBμV]	AV [dBμV]		QP [dBμV]	AV [dBμV]	QP [dBμV]	AV [dBμV]	QP [dB]	AV [dB]	
1	38.5400	47.3	—	-31.9	15.4	—	39.5	—	24.1	—	-
2	134.1200	45.7	—	-31.7	14.0	—	39.5	—	25.5	—	-
3	489.6100	37.8	—	-31.7	6.1	—	39.5	—	33.4	—	-
4	539.8700	45.7	—	-31.5	14.2	—	39.5	—	25.3	—	-
5	806.7000	43.7	—	-31.2	12.5	—	39.5	—	27.0	—	-
6	870.1200	40.3	—	-31.8	8.5	—	39.5	—	31.0	—	-

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/VCR
MODEL : SD-V392SUA
TEMP./HUMID. : 23°C/43%

REPORT NO : 24JE0051-YW-1
DATE : May 21, 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 [MHz]	READING		C.F [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBμV]	AV [dBμV]		QP [dBμV]	AV [dBμV]	QP [dBμV]	AV [dBμV]	QP [dB]	AV [dB]	
1	38.5400	46.7	—	-31.9	14.8	—	39.5	—	24.7	—	-
2	134.1200	45.2	—	-31.7	13.5	—	39.5	—	26.0	—	-
3	489.6100	38.1	—	-31.7	6.4	—	39.5	—	33.1	—	-
4	539.8700	45.6	—	-31.5	14.1	—	39.5	—	25.4	—	-
5	806.7000	43.1	—	-31.2	11.9	—	39.5	—	27.6	—	-
6	870.1200	41.2	—	-31.8	9.4	—	39.5	—	30.1	—	-

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/VCR
MODEL : SD-V392SUA
TEMP./HUMID. : 23°C/43%

REPORT NO : 24JE0051-YW-1
DATE : May 21, 2004
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

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

LIMIT : FCC 15B RF OUT SPURIOUS

NO	FREQ [MHz]	READING		C. F [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBμV]	AV [dBμV]		QP [dBμV]	AV [dBμV]	QP [dBμV]	AV [dBμV]	QP [dB]	AV [dB]	
1	38.5400	46.1	—	-31.9	14.2	—	39.5	—	25.3	—	-
2	134.1200	45.2	—	-31.7	13.5	—	39.5	—	26.0	—	-
3	489.6100	38.1	—	-31.7	6.4	—	39.5	—	33.1	—	-
4	539.8700	44.9	—	-31.5	13.4	—	39.5	—	26.1	—	-
5	806.7000	43.6	—	-31.2	12.4	—	39.5	—	27.1	—	-
6	870.1200	41.2	—	-31.8	9.4	—	39.5	—	30.1	—	-

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/VCR
MODEL : SD-V392SUA
TEMP./HUMID. : 23°C/43%

REPORT NO : 24JE0051-YW-1
DATE : May 21, 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 [MHz]	READING		C.F	RESULT		LIMIT		MARGIN		PHASE
		QP [dBμV]	AV [dBμV]		QP [dBμV]	AV [dBμV]	QP [dBμV]	AV [dBμV]	QP [dB]	AV [dB]	
1	38.5400	47.2	—	-31.9	15.3	—	39.5	—	24.2	—	-
2	134.1200	45.2	—	-31.7	13.5	—	39.5	—	26.0	—	-
3	489.6100	38.2	—	-31.7	6.5	—	39.5	—	33.0	—	-
4	539.8700	45.6	—	-31.5	14.1	—	39.5	—	25.4	—	-
5	806.7000	43.3	—	-31.2	12.1	—	39.5	—	27.4	—	-
6	870.1200	41.2	—	-31.8	9.4	—	39.5	—	30.1	—	-

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/VCR
MODEL : SD-V392SUA
TEMP./HUMID. : 23°C/43%

REPORT NO : 24JE0051-YW-1
DATE : May 21, 2004
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

OPERATION MODE : VCR Playback : 4ch

LIMIT : FCC 15B RF OUT SPURIOUS

NO	FREQ [MHz]	READING		C.F [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dB μV]	AV [dB μV]		QP [dB μV]	AV [dB μV]	QP [dB μV]	AV [dB μV]	QP [dB]	AV [dB]	
1	38.5400	44.6	—	-31.9	12.7	—	39.5	—	26.8	—	-
2	53.5000	43.7	—	-31.9	11.8	—	39.5	—	27.7	—	-
3	134.5000	45.7	—	-31.7	14.0	—	39.5	—	25.5	—	-
4	404.9000	38.7	—	-31.8	6.9	—	39.5	—	32.6	—	-
5	672.3400	43.6	—	-31.6	12.0	—	39.5	—	27.5	—	-
6	809.7200	43.6	—	-31.3	12.3	—	39.5	—	27.2	—	-

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/VCR
MODEL : SD-V392SUA
TEMP./HUMID. : 23°C/43%

REPORT NO : 24JE0051-YW-1
DATE : May 21, 2004
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

OPERATION MODE : DVD Play : 4ch

LIMIT : FCC 15B RF OUT SPURIOUS

NO	FREQ [MHz]	READING		C.F [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBμV]	AV [dBμV]		QP [dBμV]	AV [dBμV]	QP [dBμV]	AV [dBμV]	QP [dB]	AV [dB]	
1	53.5600	43.7	---	-31.9	11.8	---	39.5	---	27.7	---	-
2	134.5000	45.5	---	-31.7	13.8	---	39.5	---	25.7	---	-
3	268.4000	38.6	---	-31.7	6.9	---	39.5	---	32.6	---	-
4	404.9200	38.6	---	-31.8	6.8	---	39.5	---	32.7	---	-
5	672.3500	44.2	---	-31.6	12.6	---	39.5	---	26.9	---	-
6	809.7000	42.9	---	-31.3	11.6	---	39.5	---	27.9	---	-

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

DATA OF ANTENNA TRANSFER SWITCH TEST

UL Apex Co., Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : SD-V392SUA
TEMP./HUMID. : 23°C/43%

REPORT NO : 24JE0051-YW-1
DATE : May 21, 2004
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

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

LIMIT : FCC15B ANTENNA TRANSFER SWITCH

NO	FREQ [MHz]	READING		C.F [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBμV]	AV [dBμV]		QP [dBμV]	AV [dBμV]	QP [dBμV]	AV [dBμV]	QP [dB]	AV [dB]	
1	61.2500	32.4	—	-31.9	0.5	—	9.5	—	9.0	—	-
2	122.5000	33.9	—	-31.7	2.2	—	9.5	—	7.3	—	-
3	183.7500	31.6	—	-31.5	0.1	—	9.5	—	9.4	—	-
4	245.0000	32.3	—	-31.6	0.7	—	9.5	—	8.8	—	-
5	306.2500	31.8	—	-31.7	0.1	—	9.5	—	9.4	—	-
6	367.5000	31.9	—	-31.7	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/VCR
MODEL : SD-V392SUA
TEMP./HUMID. : 23°C/43%

REPORT NO : 24JE0051-YW-1
DATE : May 21, 2004
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

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

LIMIT : FCC15B ANTENNA TRANSFER SWITCH

NO	FREQ [MHz]	READING		C.F [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBμV]	AV [dBμV]		QP [dBμV]	AV [dBμV]	QP [dBμV]	AV [dBμV]	QP [dB]	AV [dB]	
1	61.2500	32.4	—	-31.9	0.5	—	9.5	—	9.0	—	-
2	122.5000	34.0	—	-31.7	2.3	—	9.5	—	7.2	—	-
3	183.7500	31.6	—	-31.5	0.1	—	9.5	—	9.4	—	-
4	245.0000	32.4	—	-31.6	0.8	—	9.5	—	8.7	—	-
5	306.2500	31.8	—	-31.7	0.1	—	9.5	—	9.4	—	-
6	367.5000	31.9	—	-31.7	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/VCR
MODEL : SD-V392SUA
TEMP./HUMID. : 23°C/43%

REPORT NO : 24JE0051-YW-1
DATE : May 21, 2004
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

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

LIMIT : FCC15B ANTENNA TRANSFER SWITCH

NO	FREQ [MHz]	READING		C.F [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBμV]	AV [dBμV]		QP [dBμV]	AV [dBμV]	QP [dBμV]	AV [dBμV]	QP [dB]	AV [dB]	
1	61.2500	32.0	—	-31.9	0.1	—	9.5	—	9.4	—	-
2	122.5000	34.1	—	-31.7	2.4	—	9.5	—	7.1	—	-
3	183.7500	31.6	—	-31.5	0.1	—	9.5	—	9.4	—	-
4	245.0000	32.7	—	-31.6	1.1	—	9.5	—	8.4	—	-
5	306.2500	31.8	—	-31.7	0.1	—	9.5	—	9.4	—	-
6	367.5000	32.1	—	-31.7	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/VCR
MODEL : SD-V392SUA
TEMP./HUMID. : 23°C/43%

REPORT NO : 24JE0051-YW-1
DATE : May 21, 2004
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

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

LIMIT : FCC15B ANTENNA TRANSFER SWITCH

NO	FREQ [MHz]	READING		C.F [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBμV]	AV [dBμV]		QP [dBμV]	AV [dBμV]	QP [dBμV]	AV [dBμV]	QP [dB]	AV [dB]	
1	61.2500	32.0	—	-31.9	0.1	—	9.5	—	9.4	—	-
2	122.5000	34.2	—	-31.7	2.5	—	9.5	—	7.0	—	-
3	183.7500	31.6	—	-31.5	0.1	—	9.5	—	9.4	—	-
4	245.0000	32.8	—	-31.6	1.2	—	9.5	—	8.3	—	-
5	306.2500	31.8	—	-31.7	0.1	—	9.5	—	9.4	—	-
6	367.5000	32.0	—	-31.7	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/VCR
MODEL : SD-V392SUA
TEMP./HUMID. : 23°C/43%

REPORT NO : 24JE0051-YW-1
DATE : May 21, 2004
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

OPERATION MODE : VCR Playback : 3ch

LIMIT : FCC15B ANTENNA TRANSFER SWITCH

NO	FREQ [MHz]	READING		C.F [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBμV]	AV [dBμV]		QP [dBμV]	AV [dBμV]	QP [dBμV]	AV [dBμV]	QP [dB]	AV [dB]	
1	61.2500	33.5	—	-31.9	1.6	—	9.5	—	7.9	—	-
2	122.5000	34.7	—	-31.7	3.0	—	9.5	—	6.5	—	-
3	183.7500	31.7	—	-31.5	0.2	—	9.5	—	9.3	—	-
4	245.0000	33.2	—	-31.6	1.6	—	9.5	—	7.9	—	-
5	306.2500	31.8	—	-31.7	0.1	—	9.5	—	9.4	—	-
6	367.5000	32.0	—	-31.7	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/VCR
MODEL : SD-V392SUA
TEMP./HUMID. : 23°C/43%

REPORT NO : 24JE0051-YW-1
DATE : May 21, 2004
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

OPERATION MODE : DVD Play : 3ch

LIMIT : FCC15B ANTENNA TRANSFER SWITCH

NO	FREQ [MHz]	READING		C. F [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBμV]	AV [dBμV]		QP [dBμV]	AV [dBμV]	QP [dBμV]	AV [dBμV]	QP [dB]	AV [dB]	
1	61.2500	31.9	—	-31.9	0.0	—	9.5	—	9.5	—	-
2	122.5000	33.9	—	-31.7	2.2	—	9.5	—	7.3	—	-
3	183.7500	31.7	—	-31.5	0.2	—	9.5	—	9.3	—	-
4	245.0000	32.1	—	-31.6	0.5	—	9.5	—	9.0	—	-
5	306.2500	31.9	—	-31.7	0.2	—	9.5	—	9.3	—	-
6	367.5000	31.8	—	-31.7	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/VCR
MODEL : SD-V392SUA
TEMP./HUMID. : 23°C/43%

REPORT NO : 24JE0051-YW-1
DATE : May 21, 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 [MHz]	READING		C. F [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBμV]	AV [dBμV]		QP [dBμV]	AV [dBμV]	QP [dBμV]	AV [dBμV]	QP [dB]	AV [dB]	
1	67.2500	35.3	—	-31.8	3.5	—	9.5	—	6.0	—	-
2	134.5000	33.0	—	-31.7	1.3	—	9.5	—	8.2	—	-
3	201.7500	31.6	—	-31.5	0.1	—	9.5	—	9.4	—	-
4	269.0000	31.9	—	-31.7	0.2	—	9.5	—	9.3	—	-
5	336.2500	31.8	—	-31.7	0.1	—	9.5	—	9.4	—	-
6	403.5000	32.3	—	-31.8	0.5	—	9.5	—	9.0	—	-

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

DATA OF ANTENNA TRANSFER SWITCH TEST

UL Apex Co., Ltd.

COMPANY : Orion Electric Co., Ltd.
EQUIPMENT : DVD/VCR
MODEL : SD-V392SUA
TEMP./HUMID. : 23°C/43%

REPORT NO : 24JE0051-YW-1
DATE : May 21, 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 [MHz]	READING		C. F [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBμV]	AV [dBμV]		QP [dBμV]	AV [dBμV]	QP [dBμV]	AV [dBμV]	QP [dB]	AV [dB]	
1	67.2500	35.3	—	-31.8	3.5	—	9.5	—	6.0	—	-
2	134.5000	33.4	—	-31.7	1.7	—	9.5	—	7.8	—	-
3	201.7500	31.6	—	-31.5	0.1	—	9.5	—	9.4	—	-
4	269.0000	31.9	—	-31.7	0.2	—	9.5	—	9.3	—	-
5	336.2500	31.8	—	-31.7	0.1	—	9.5	—	9.4	—	-
6	403.5000	31.9	—	-31.8	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/VCR
MODEL : SD-V392SUA
TEMP./HUMID. : 23°C/43%

REPORT NO : 24JE0051-YW-1
DATE : May 21, 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 [MHz]	READING		C. F [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBμV]	AV [dBμV]		QP [dBμV]	AV [dBμV]	QP [dBμV]	AV [dBμV]	QP [dB]	AV [dB]	
1	67.2500	34.3	—	-31.8	2.5	—	9.5	—	7.0	—	-
2	134.5000	32.3	—	-31.7	0.6	—	9.5	—	8.9	—	-
3	201.7500	31.6	—	-31.5	0.1	—	9.5	—	9.4	—	-
4	269.0000	31.9	—	-31.7	0.2	—	9.5	—	9.3	—	-
5	336.2500	31.8	—	-31.7	0.1	—	9.5	—	9.4	—	-
6	403.5000	32.0	—	-31.8	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/VCR
MODEL : SD-V392SUA
TEMP./HUMID. : 23°C/43%

REPORT NO : 24JE0051-YW-1
DATE : May 21, 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 [MHz]	READING		C.F [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBμV]	AV [dBμV]		QP [dBμV]	AV [dBμV]	QP [dBμV]	AV [dBμV]	QP [dB]	AV [dB]	
1	67.2500	34.9	—	-31.8	3.1	—	9.5	—	6.4	—	-
2	134.5000	32.3	—	-31.7	0.6	—	9.5	—	8.9	—	-
3	201.7500	31.6	—	-31.5	0.1	—	9.5	—	9.4	—	-
4	269.0000	31.9	—	-31.7	0.2	—	9.5	—	9.3	—	-
5	336.2500	31.8	—	-31.7	0.1	—	9.5	—	9.4	—	-
6	403.5000	32.0	—	-31.8	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/VCR
MODEL : SD-V392SUA
TEMP./HUMID. : 23°C/43%

REPORT NO : 24JE0051-YW-1
DATE : May 21, 2004
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

OPERATION MODE : VCR Playback : 4ch

LIMIT : FCC15B ANTENNA TRANSFER SWITCH

NO	FREQ [MHz]	READING		C. F [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBμV]	AV [dBμV]		QP [dBμV]	AV [dBμV]	QP [dBμV]	AV [dBμV]	QP [dB]	AV [dB]	
1	67.2500	34.9	----	-31.8	3.1	----	9.5	----	6.4	----	-
2	134.5000	33.2	----	-31.7	1.5	----	9.5	----	8.0	----	-
3	201.7500	31.7	----	-31.5	0.2	----	9.5	----	9.3	----	-
4	269.0000	32.1	----	-31.7	0.4	----	9.5	----	9.1	----	-
5	336.2500	31.8	----	-31.7	0.1	----	9.5	----	9.4	----	-
6	403.5000	32.1	----	-31.8	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/VCR
MODEL : SD-V392SUA
TEMP./HUMID. : 23°C/43%

REPORT NO : 24JE0051-YW-1
DATE : May 21, 2004
REGULATION : FCC Part15 Subpart B
TEST ENGINEER : Tsubasa Takayama

OPERATION MODE : DVD Play : 4ch

LIMIT : FCC15B ANTENNA TRANSFER SWITCH

NO	FREQ [MHz]	READING		C.F	RESULT		LIMIT		MARGIN		PHASE
		QP [dBμV]	AV [dBμV]		QP [dBμV]	AV [dBμV]	QP [dBμV]	AV [dBμV]	QP [dB]	AV [dB]	
1	67.2500	34.8	—	-31.8	3.0	—	9.5	—	6.5	—	-
2	134.5000	33.6	—	-31.7	1.9	—	9.5	—	7.6	—	-
3	201.7500	31.6	—	-31.5	0.1	—	9.5	—	9.4	—	-
4	269.0000	32.3	—	-31.7	0.6	—	9.5	—	8.9	—	-
5	336.2500	31.8	—	-31.7	0.1	—	9.5	—	9.4	—	-
6	403.5000	32.0	—	-31.8	0.2	—	9.5	—	9.3	—	-

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

Picture Sensitivity Test

UL Apex Co.,Ltd.
Yokowa EMC Laboratory

Company : Orion Electric Co., Ltd.
Equipment : DVD/VCR
Model Number : SD-V392SUA
Power : AC120 V / 60Hz
Description : TV Reception
Remarks : -

Report Number : 24JE0051-YW-1
Regulation : FCC Part15 SubpartB
Date : May 21,2004
Temp / Humid : 26°/ 46%
Engineer : Tsubasa Takayama

Ch [VHF]	Frequency [MHz]	Sensitivity [MHz]		Ch [UHF]	Frequency [MHz]	Sensitivity [MHz]	
		[dBμV]	[μV]			[dB μ V]	[μ V]
2	55.25	20.0	10.0	14	471.25	21.8	12.3
3	61.25	18.6	8.5	20	507.25	21.8	12.3
4	67.25	17.1	7.2	26	543.25	22.4	13.2
5	77.25	19.0	8.9	32	579.25	22.5	13.3
6	83.25	18.1	8.0	38	615.25	22.6	13.5
7	175.25	20.0	10.0	44	651.25	22.8	13.8
8	181.25	21.3	11.6	50	687.25	23.1	14.3
9	187.25	20.0	10.0	56	723.25	23.1	14.3
10	193.25	20.0	10.0	62	759.25	23.9	15.7
11	199.25	19.7	9.7	69	801.25	23.9	15.7
12	205.25	20.0	10.0	-	-	-	-
13	211.25	20.2	10.2	-	-	-	-
Average VHF			9.5	Average UHF			13.8
Average UHF/VHF : $20 \log \text{UHF}[\mu\text{V}] / \text{VHF}[\mu\text{V}] =$				3.3 [Limit : 8.0dB]			

Noise Figure Test

UL Apex Co.,Ltd.
Yokowa EMC Laboratory

Company : Orion Electric Co., Ltd.
Equipment : DVD/VCR
Model Number : SD-V392SUA
Power : AC120 V / 60Hz
Description : TV Reception
Remarks : -

Report Number : 24JE0051-YW-1
Regulation : FCC Part15 SubpartB
Date : May 21,2004
Temp / Humid : 26°/ 46%
Engineer : Tsubasa Takayama

Ch	Frequency [MHz]	Meter Reading [dB]	Correction Factor [dB]	Noise Figure [dB]	Limits [dB]	Margin [dB]
TV VHF Fundamental						
2	55.25	6.2	0.2	6.0	14.0	8.0
3	61.25	3.5	0.2	3.3	14.0	10.7
4	67.25	4.8	0.2	4.6	14.0	9.4
5	77.25	4.4	0.2	4.2	14.0	9.8
6	83.25	3.3	0.2	3.1	14.0	10.9
7	175.25	4.0	0.2	3.8	14.0	10.2
8	181.25	3.7	0.2	3.5	14.0	10.5
9	187.25	3.4	0.2	3.2	14.0	10.8
10	193.25	3.2	0.2	3.0	14.0	11.0
11	199.25	3.2	0.2	3.0	14.0	11.0
12	205.25	3.2	0.2	3.0	14.0	11.0
13	211.25	3.2	0.2	3.0	14.0	11.0
TV UHF Fundamental						
14	471.25	5.8	0.3	5.5	14.0	8.5
20	507.25	6.1	0.3	5.8	14.0	8.2
26	543.25	6.2	0.3	5.9	14.0	8.1
32	579.25	6.5	0.3	6.2	14.0	7.8
38	615.25	7.0	0.3	6.7	14.0	7.3
44	651.25	6.2	0.3	5.9	14.0	8.1
50	687.25	6.5	0.3	6.2	14.0	7.8
56	723.25	5.4	0.4	5.0	14.0	9.0
62	759.25	5.2	0.4	4.8	14.0	9.2
69	801.25	5.2	0.4	4.8	14.0	9.2
Mid band						
14	121.25	3.3	0.2	3.1	14.0	10.9
16	133.25	6.9	0.2	6.7	14.0	7.3
18	145.25	5.7	0.2	5.5	14.0	8.5
20	157.25	4.8	0.2	4.6	14.0	9.4
22	169.25	4.4	0.2	4.2	14.0	9.8
Super band						
23	217.25	3.5	0.2	3.3	14.0	10.7
26	235.25	3.4	0.2	3.2	14.0	10.8
29	253.25	3.4	0.2	3.2	14.0	10.8
32	271.25	4.5	0.2	4.3	14.0	9.7
36	295.25	4.7	0.2	4.5	14.0	9.5

Test Report No : 24JE0051-YW-1

APPENDIX 3

Test Instruments

Control No.	Instrument	Manufacturer	Model No	Test Item	Calibration Date * Interval(month)
APVBT01	VIDEO BOOSTER	UL Apex	-	RF, ATS	-
APTVG01	TV Generator	Leader	408NPS	RF, ATS	Pre Check
APSPA04	Spectrum Analyzer	Advantest	R3265	AT, RF, ATS	2004/05/14 * 12
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
AF-03	Pre Amplifier	Anritsu	MH648A	AT	2004/03/28 * 12
AF-07	Pre Amplifier	Agilent	HP8449B	AT	2003/12/25 * 12
SA-05	Spectrum Analyzer	Advantest	R3271	AT	2003/12/21 * 12
AF-01	Pre Amplifier	Hewlett Packard	8447D	RE	2004/03/28 * 12
AF-04	Pre Amplifier	Hewlett Packard	8449B	RE	2003/11/04 * 12
AT-06	Attenuator	Anritsu	MP721B	RE	2004/03/27 * 12
BA-06	Biconical Antenna	Schwarzbeck	BBA9106	RE	2004/01/31 * 12
HA-02	Horn Antenna	A.H.Systems	SAS-200/571	RE	2004/04/10 * 12
LA-07	Logperiodic Antenna	Schwarzbeck	UKLP9140-A	RE	2004/01/31 * 12
LS-04	LISN(AMN)	Rohde & Schwarz	ESH3-Z5	CE	2003/10/31 * 12
SA-06	Spectrum Analyzer	Advantest	R3273	CE, RE	2003/11/13 * 12
TR-05	Test Receiver	Rohde & Schwarz	ESHS10	CE	2003/08/28 * 12
TR-06	Test Receiver	Rohde & Schwarz	ESVS10	RE	2003/10/28 * 12
CC-30RG	Yokawa No.3 open coaxial(0.01-1000MHz)	UL Apex	CC-31,CC-32,CC-33, CC-34,CC-35,CC-36, CC-37,SW-31,SW-32	RE	2004/03/28 * 12
CC-C10	Microwave Cable	Storm	421-014(7m)	RE	2003/12/18 * 12
CC-C13	Microwave Cable	Suhner	SUCOFLEX	RE	2004/01/07 * 12
YOATS-03	Open Test Site	JSE	3m, 10m	RE	2003/08/15 * 12
OS-16	Digital Humidity Indicator	SATO	PC-5000TRH	RE	2004/05/07 * 12
OS-11	Digital Humidity Indicator	SATO	PC-5000TRH	CE	2004/04/20 * 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