

Appendix 2 : Data of EMI tests

This section contains the following data.

Page 32 to Page 43 :	Conducted interference
Page 44 to Page 58 :	Radiated emission
Page 59 to Page 60 :	Antenna terminal voltage
Page 61 to Page 78 :	RF output level / spurious emission
Page 79 to Page 86 :	Antenna transfer switch
Page 87 :	Picture sensitivity
Page 88 :	Noise figure

DATA OF CONDUCTION

A-PEX INTERNATIONAL CO.,LTD.
Kanto Office EMC Lab.

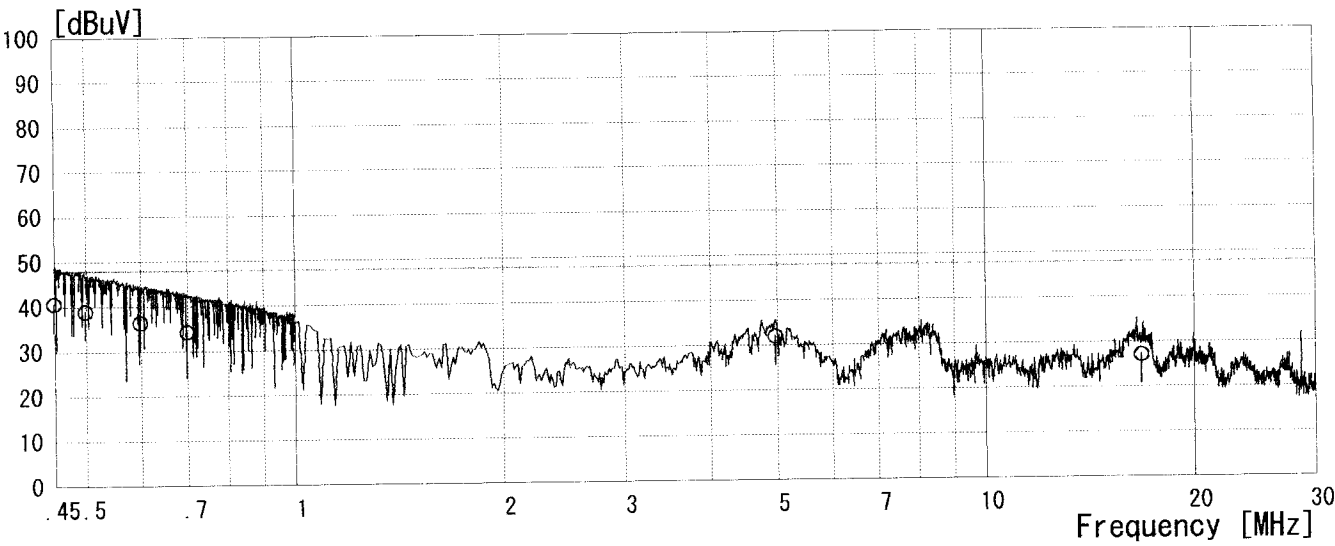
COMPANY : ORION ELECTRIC CO., LTD.
EQUIPMENT : DVD/VCR
MODEL NAME : HR-XVC1U
OPERATION MODE: RECEIVE+VCR REC
LINE : N
POWER : AC120V/60Hz
REMARKS : 0dBmV INPUT

REPORT No. : 22CE0026-KT-1
DATE : OCTOBER 29, 2001
REGULATION : FCC PART15 SUBPART B
TEST No. : 1

TEST ENGINEER: Hisayuki Kioka

No.	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN	
		QP	AV		QP	AV	QP	AV	QP	AV
		[dBuV]			[dBuV]		[dBuV]		[dB]	
1	0.450	40.1	----	0.5	40.6	----	48.0	----	7.4	----
2	0.500	38.4	----	0.5	38.9	----	48.0	----	9.1	----
3	0.600	35.8	----	0.5	36.3	----	48.0	----	11.7	----
4	0.700	33.7	----	0.4	34.1	----	48.0	----	13.9	----
5	4.979	31.3	----	0.6	31.9	----	48.0	----	16.1	----
6	16.819	26.2	----	0.8	27.0	----	48.0	----	21.0	----

RESULTS=READING+CABLE LOSS+LISN FACTOR



DATA OF CONDUCTION

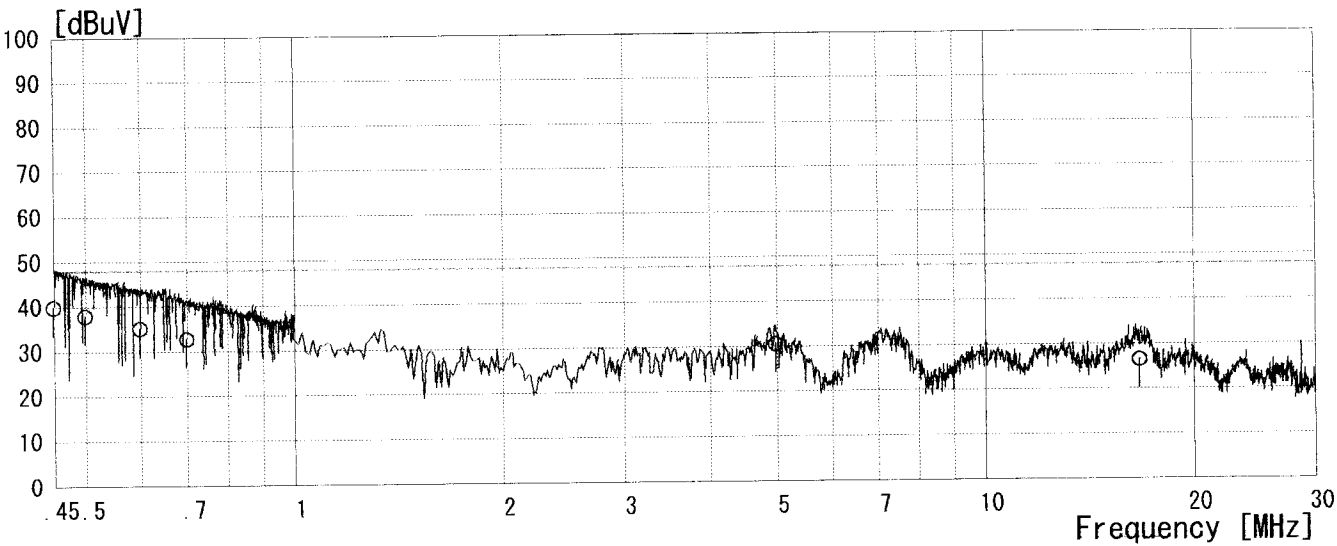
A-PEX INTERNATIONAL CO.,LTD.
Kanto Office EMC Lab.

COMPANY : ORION ELECTRIC CO., LTD.
EQUIPMENT : DVD/VCR
MODEL NAME : HR-XVC1U
OPERATION MODE: RECEIVE+VCR REC
LINE : L
POWER : AC120V/60Hz
REMARKS : 0dBmV INPUT

REPORT No. : 22CE0026-KT-1
DATE : OCTOBER 29, 2001
REGULATION : FCC PART15 SUBPART B
TEST No. : 2
TEST ENGINEER: Hisayuki Kioka

No.	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN	
		QP	AV		QP	AV	QP	AV	QP	AV
		[dBuV]			[dBuV]		[dBuV]		[dB]	
1	0.450	39.3	----	0.5	39.8	----	48.0	----	8.2	----
2	0.500	37.4	----	0.5	37.9	----	48.0	----	10.1	----
3	0.600	34.6	----	0.4	35.0	----	48.0	----	13.0	----
4	0.700	32.2	----	0.4	32.6	----	48.0	----	15.4	----
5	4.980	30.0	----	0.6	30.6	----	48.0	----	17.4	----
6	16.721	25.5	----	1.0	26.5	----	48.0	----	21.5	----

RESULTS=READING+CABLE LOSS+LISN FACTOR



DATA OF CONDUCTION

A-PEX INTERNATIONAL CO.,LTD.
Kanto Office EMC Lab.

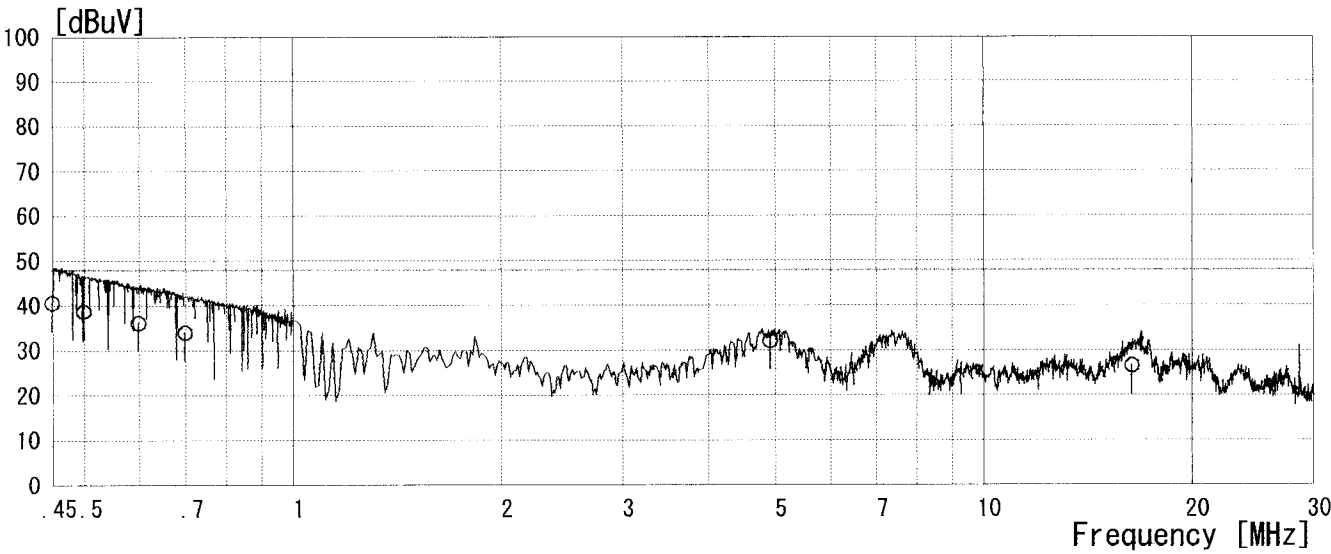
COMPANY : ORION ELECTRIC CO., LTD.
EQUIPMENT : DVD/VCR
MODEL NAME : HR-XVC1U
OPERATION MODE: RECEIVE+VCR REC
LINE : N
POWER : AC120V/60Hz
REMARKS : 25dBmV INPUT

REPORT No. : 22CE0026-KT-1
DATE : OCTOBER 29, 2001
REGULATION : FCC PART15 SUBPART B
TEST No. : 4

TEST ENGINEER:Hisayuki Kioka

No.	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN	
		QP	AV		QP	AV	QP	AV	QP	AV
		[dBuV]			[dBuV]		[dBuV]		[dB]	
1	0.450	40.0	----	0.5	40.5	----	48.0	----	7.5	----
2	0.500	38.2	----	0.5	38.7	----	48.0	----	9.3	----
3	0.600	35.6	----	0.5	36.1	----	48.0	----	11.9	----
4	0.700	33.5	----	0.4	33.9	----	48.0	----	14.1	----
5	4.920	31.5	----	0.6	32.1	----	48.0	----	15.9	----
6	16.406	25.7	----	0.8	26.5	----	48.0	----	21.5	----

RESULTS=READING+CABLE LOSS+LISN FACTOR



DATA OF CONDUCTION

A-PEX INTERNATIONAL CO., LTD.
Kanto Office EMC Lab.

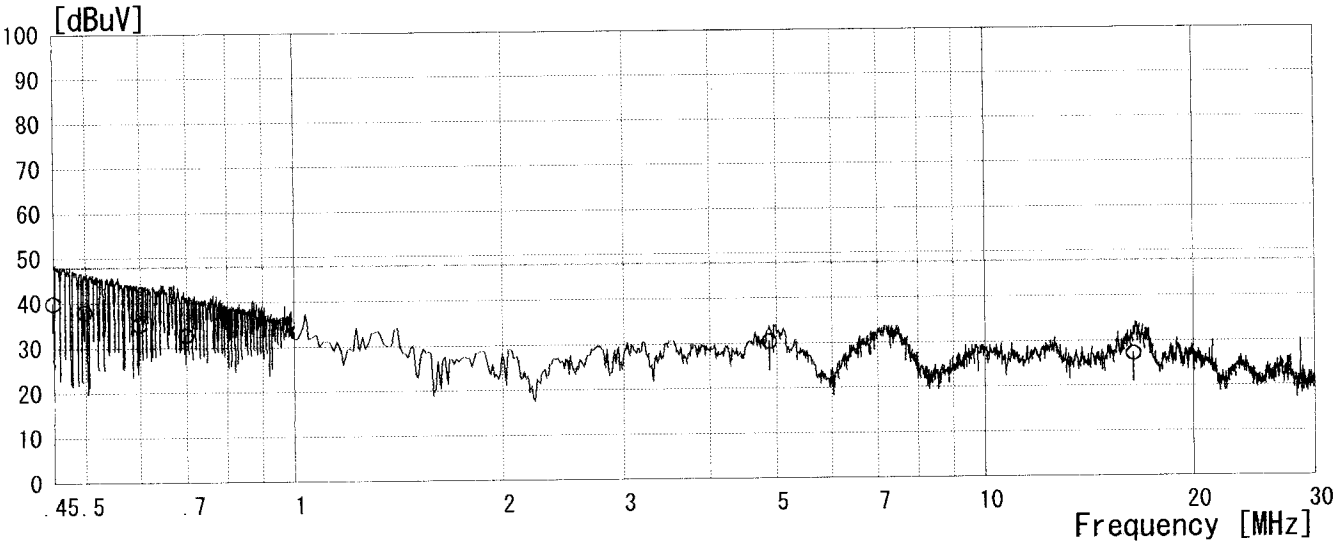
COMPANY : ORION ELECTRIC CO., LTD.
EQUIPMENT : DVD/VCR
MODEL NAME : HR-XVC1U
OPERATION MODE : RECEIVE+VCR REC
LINE : L
POWER : AC120V/60Hz
REMARKS : 25dBmV INPUT

REPORT No. : 22GE0026-KT-1
DATE : OCTOBER 29, 2001
REGULATION : FCC PART15 SUBPART B
TEST No. : 3

TEST ENGINEER Hisayuki Kioka

No.	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN	
		QP	AV		QP	AV	QP	AV	QP	AV
		[dBuV]			[dBuV]		[dBuV]		[dB]	
1	0.450	39.3	----	0.5	39.8	----	48.0	----	8.2	----
2	0.500	37.4	----	0.5	37.9	----	48.0	----	10.1	----
3	0.600	34.6	----	0.4	35.0	----	48.0	----	13.0	----
4	0.700	32.2	----	0.4	32.6	----	48.0	----	15.4	----
5	4.891	29.8	----	0.6	30.4	----	48.0	----	17.6	----
6	16.425	26.2	----	1.0	27.2	----	48.0	----	20.8	----

RESULTS=READING+CABLE LOSS+LISN FACTOR



DATA OF CONDUCTION

A-PEX INTERNATIONAL CO.,LTD.
Kanto Office EMC Lab.

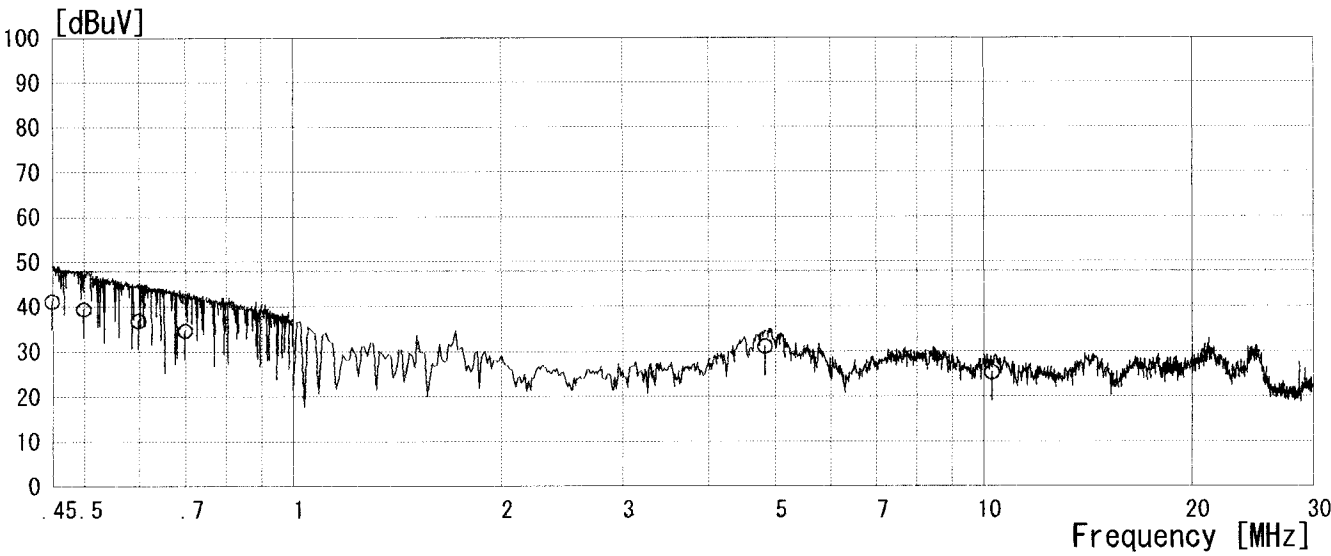
COMPANY : ORION ELECTRIC CO., LTD.
EQUIPMENT : DVD/VCR
MODEL NAME : HR-XVC1U
OPERATION MODE: AV INPUT+REC.
LINE : N
POWER : AC120V/60Hz
REMARKS : 1Vp-p INPUT

REPORT No. : 22CE0026-KT-1
DATE : OCTOBER 30, 2001
REGULATION : FCC PART15 SUBPART B
TEST No. : 9

TEST ENGINEER:Hisayuki Kioka

No.	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN	
		QP	AV		QP	AV	QP	AV	QP	AV
		[dBuV]			[dBuV]		[dBuV]		[dB]	
1	0.450	40.6	----	0.5	41.1	----	48.0	----	6.9	----
2	0.500	38.9	----	0.5	39.4	----	48.0	----	8.6	----
3	0.600	36.3	----	0.5	36.8	----	48.0	----	11.2	----
4	0.700	34.1	----	0.4	34.5	----	48.0	----	13.5	----
5	4.841	30.5	----	0.6	31.1	----	48.0	----	16.9	----
6	10.300	24.6	----	0.7	25.3	----	48.0	----	22.7	----

RESULTS=READING+CABLE LOSS+LISN FACTOR



DATA OF CONDUCTION

A-PEX INTERNATIONAL CO.,LTD.
Kanto Office EMC Lab.

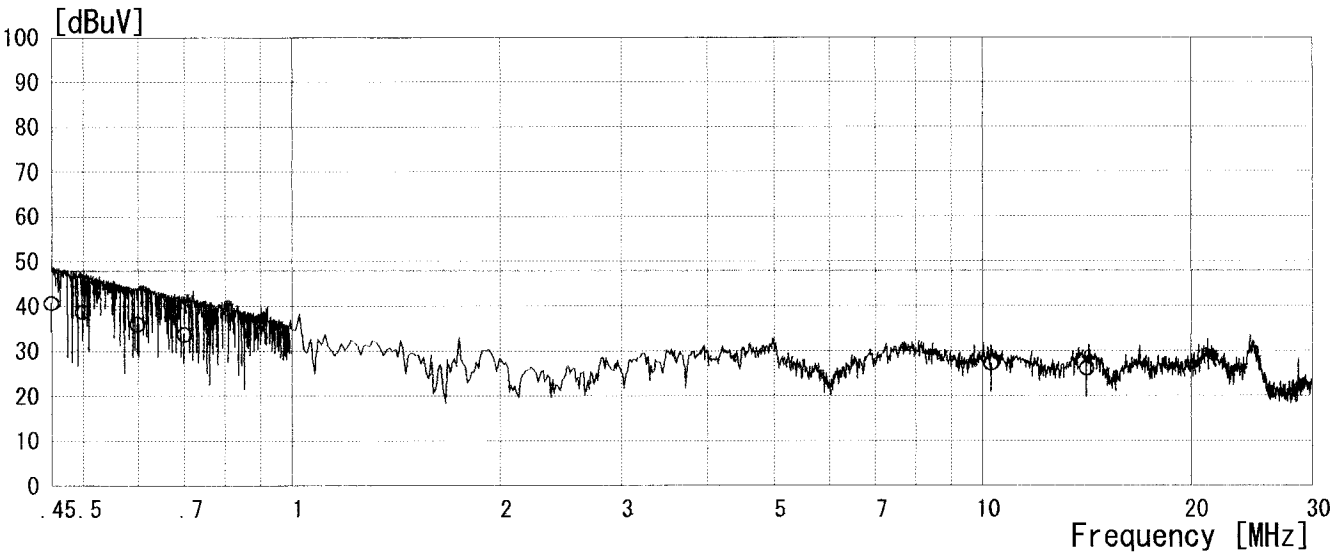
COMPANY : ORION ELECTRIC CO., LTD.
EQUIPMENT : DVD/VCR
MODEL NAME : HR-XVC1U
OPERATION MODE: AV INPUT+REC.
LINE : L
POWER : AC120V/60Hz
REMARKS : 1Vp-p INPUT
:

REPORT No. : 22CE0026-KT-1
DATE : OCTOBER 30, 2001
REGULATION : FCC PART15 SUBPART B
TEST No. : 10
:

TEST ENGINEER:Hisayuki Kioka

No.	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN	
		QP	AV		QP	AV	QP	AV	QP	AV
		[dBuV]	[dBuV]		[dBuV]	[dBuV]	[dBuV]	[dBuV]	[dB]	[dB]
1	0.450	40.1	----	0.5	40.6	----	48.0	----	7.4	----
2	0.500	38.2	----	0.5	38.7	----	48.0	----	9.3	----
3	0.600	35.4	----	0.4	35.8	----	48.0	----	12.2	----
4	0.700	33.2	----	0.4	33.6	----	48.0	----	14.4	----
5	10.300	26.4	----	0.7	27.1	----	48.0	----	20.9	----
6	14.160	25.2	----	0.9	26.1	----	48.0	----	21.9	----

RESULTS=READING+CABLE LOSS+LISN FACTOR



DATA OF CONDUCTION

A-PEX INTERNATIONAL CO.,LTD.
Kanto Office EMC Lab.

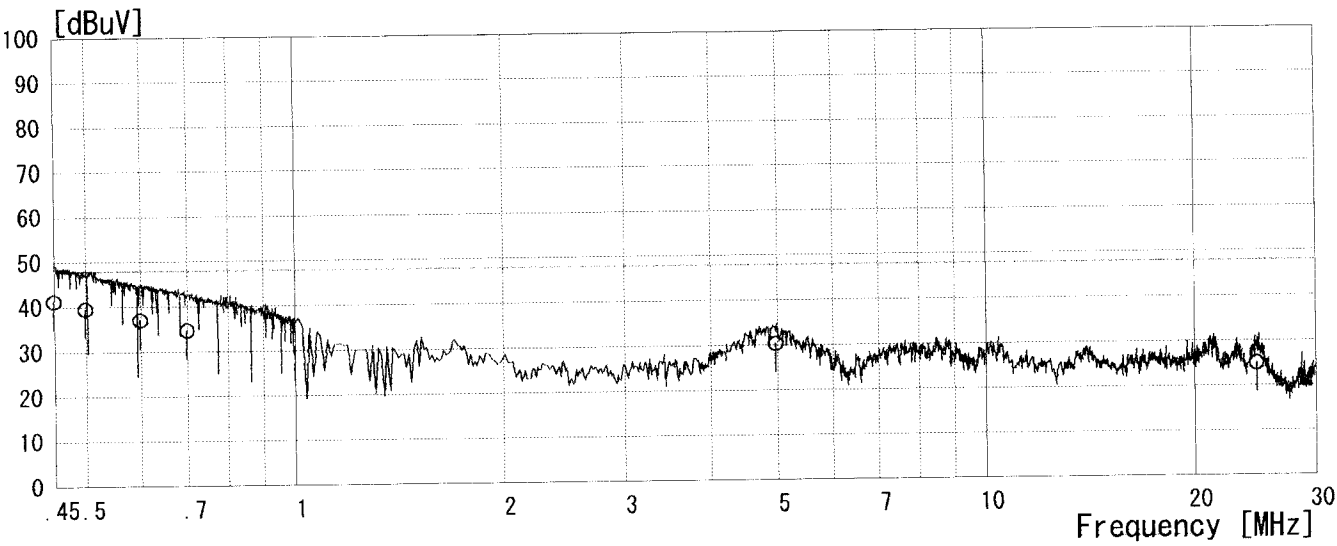
COMPANY : ORION ELECTRIC CO., LTD.
EQUIPMENT : DVD/VCR
MODEL NAME : HR-XVC1U
OPERATION MODE: AV INPUT+REC.
LINE : N
POWER : AC120V/60Hz
REMARKS : 5Vp-p INPUT

REPORT No. : 22CE0026-KT-1
DATE : OCTOBER 30, 2001
REGULATION : FCC PART15 SUBPART B
TEST No. : 12

TEST ENGINEER: Hisayuki Kioka

No.	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN	
		QP	AV		QP	AV	QP	AV	QP	AV
		[dBuV]			[dBuV]		[dBuV]		[dB]	
1	0.450	40.7	----	0.5	41.2	----	48.0	----	6.8	----
2	0.500	39.0	----	0.5	39.5	----	48.0	----	8.5	----
3	0.600	36.5	----	0.5	37.0	----	48.0	----	11.0	----
4	0.700	34.2	----	0.4	34.6	----	48.0	----	13.4	----
5	4.975	29.7	----	0.6	30.3	----	48.0	----	17.7	----
6	24.654	24.0	----	1.0	25.0	----	48.0	----	23.0	----

RESULTS=READING+CABLE LOSS+LISN FACTOR



DATA OF CONDUCTION

A-PEX INTERNATIONAL CO., LTD.
Kanto Office EMC Lab.

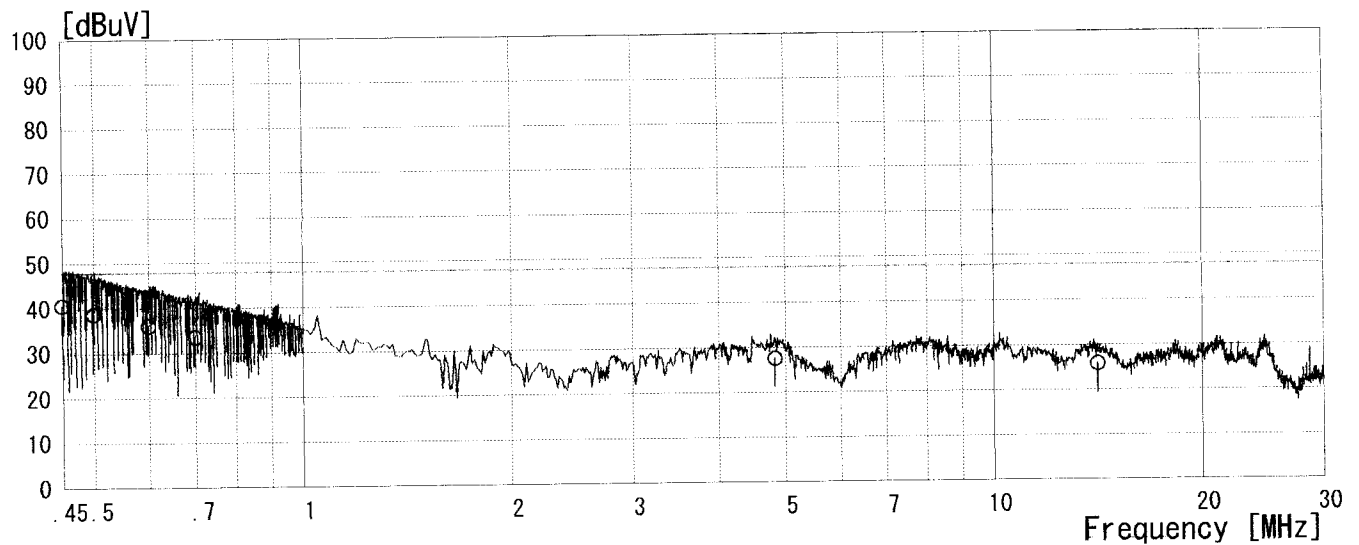
COMPANY : ORION ELECTRIC CO., LTD.
EQUIPMENT : DVD/VCR
MODEL NAME : HR-XVC1U
OPERATION MODE : AV INPUT+REC.
LINE : L
POWER : AC120V/60Hz
REMARKS : 5Vp-p INPUT

REPORT No. : 22CE0026-KT-1
DATE : OCTOBER 30, 2001
REGULATION : FCC PART15 SUBPART B
TEST No. : 11

TEST ENGINEER: Hisayuki Kioka

No.	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN	
		QP	AV		QP	AV	QP	AV	QP	AV
		[dBuV]			[dBuV]		[dBuV]		[dB]	
1	0.450	40.1	----	0.5	40.6	----	48.0	----	7.4	----
2	0.500	38.2	----	0.5	38.7	----	48.0	----	9.3	----
3	0.600	35.6	----	0.4	36.0	----	48.0	----	12.0	----
4	0.700	33.0	----	0.4	33.4	----	48.0	----	14.6	----
5	4.831	27.0	----	0.5	27.5	----	48.0	----	20.5	----
6	14.143	24.9	----	0.9	25.8	----	48.0	----	22.2	----

RESULTS=READING+CABLE LOSS+LISN FACTOR



DATA OF CONDUCTION

A-PEX INTERNATIONAL CO.,LTD.
Kanto Office EMC Lab.

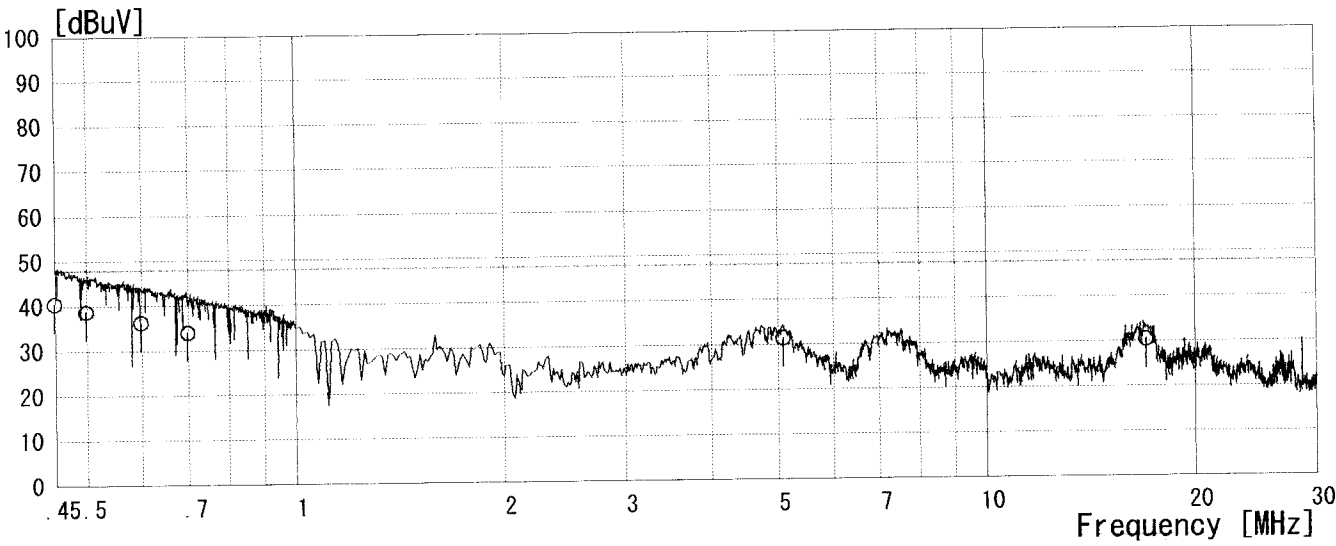
COMPANY : ORION ELECTRIC CO., LTD.
EQUIPMENT : DVD/VCR
MODEL NAME : HR-XVC1U
OPERATION MODE : VCR PLAYBACK
LINE : N
POWER : AC120V/60Hz
REMARKS : -

REPORT No. : 22CE0026-KT-1
DATE : OCTOBER 29, 2001
REGULATION : FCC PART15 SUBPART B
TEST No. : 5

TEST ENGINEER:  Hisayuki Kioka

No.	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN	
		QP	AV		QP	AV	QP	AV	QP	AV
			[dBuV]			[dBuV]		[dBuV]		[dB]
1	0.450	39.9	----	0.5	40.4	----	48.0	----	7.6	----
2	0.500	38.2	----	0.5	38.7	----	48.0	----	9.3	----
3	0.600	35.7	----	0.5	36.2	----	48.0	----	11.8	----
4	0.700	33.5	----	0.4	33.9	----	48.0	----	14.1	----
5	5.089	30.8	----	0.6	31.4	----	48.0	----	16.6	----
6	17.051	29.5	----	0.8	30.3	----	48.0	----	17.7	----

RESULTS=READING+CABLE LOSS+LISN FACTOR



DATA OF CONDUCTION

A-PEX INTERNATIONAL CO.,LTD.
Kanto Office EMC Lab.

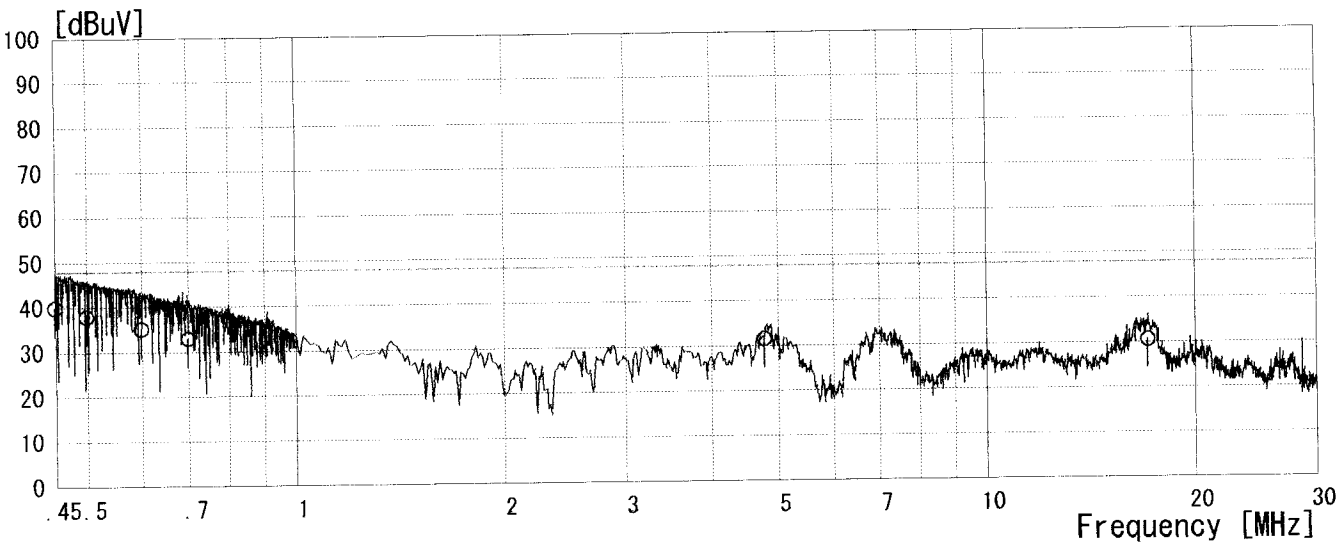
COMPANY : ORION ELECTRIC CO., LTD.
EQUIPMENT : DVD/VCR
MODEL NAME : HR-XVC1U
OPERATION MODE : VCR PLAYBACK
LINE : L
POWER : AC120V/60Hz
REMARKS : -

REPORT No. : 22CE0026-KT-1
DATE : OCTOBER 29, 2001
REGULATION : FCC PART15 SUBPART B
TEST No. : 6

TEST ENGINEER:  Hisayuki Kioka

No.	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN	
		QP	AV		QP	AV	QP	AV	QP	AV
		[dBuV]			[dBuV]		[dBuV]		[dB]	
1	0.450	39.3	----	0.5	39.8	----	48.0	----	8.2	----
2	0.500	37.4	----	0.5	37.9	----	48.0	----	10.1	----
3	0.600	34.6	----	0.4	35.0	----	48.0	----	13.0	----
4	0.700	32.4	----	0.4	32.8	----	48.0	----	15.2	----
5	4.781	31.0	----	0.5	31.5	----	48.0	----	16.5	----
6	17.129	29.5	----	1.0	30.5	----	48.0	----	17.5	----

RESULTS=READING+CABLE LOSS+LISN FACTOR



DATA OF CONDUCTION

A-PEX INTERNATIONAL CO.,LTD.
Kanto Office EMC Lab.

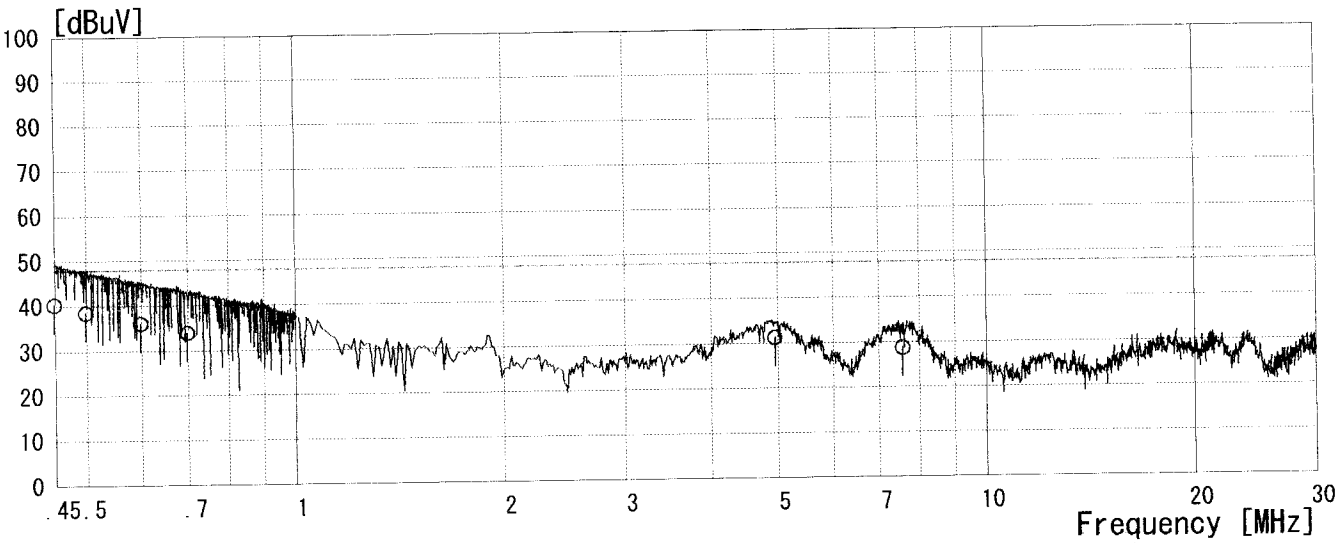
COMPANY : ORION ELECTRIC CO., LTD.
EQUIPMENT : DVD/VCR
MODEL NAME : HR-XVC1U
OPERATION MODE: DVD PLAY
LINE : N
POWER : AC120V/60Hz
REMARKS : -

REPORT No. : 22CE0026-KT-1
DATE : OCTOBER 30, 2001
REGULATION : FCC PART15 SUBPART B
TEST No. : 8

TEST ENGINEER: Mitsayuki Kioka

No.	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN	
		QP	AV		QP	AV	QP	AV	QP	AV
		[dBuV]			[dBuV]		[dBuV]		[dB]	
1	0.450	39.8	----	0.5	40.3	----	48.0	----	7.7	----
2	0.500	38.0	----	0.5	38.5	----	48.0	----	9.5	----
3	0.600	35.5	----	0.5	36.0	----	48.0	----	12.0	----
4	0.700	33.4	----	0.4	33.8	----	48.0	----	14.2	----
5	4.960	30.6	----	0.6	31.2	----	48.0	----	16.8	----
6	7.582	28.0	----	0.6	28.6	----	48.0	----	19.4	----

RESULTS=READING+CABLE LOSS+LISN FACTOR



DATA OF CONDUCTION

A-PEX INTERNATIONAL CO.,LTD.
Kanto Office EMC Lab.

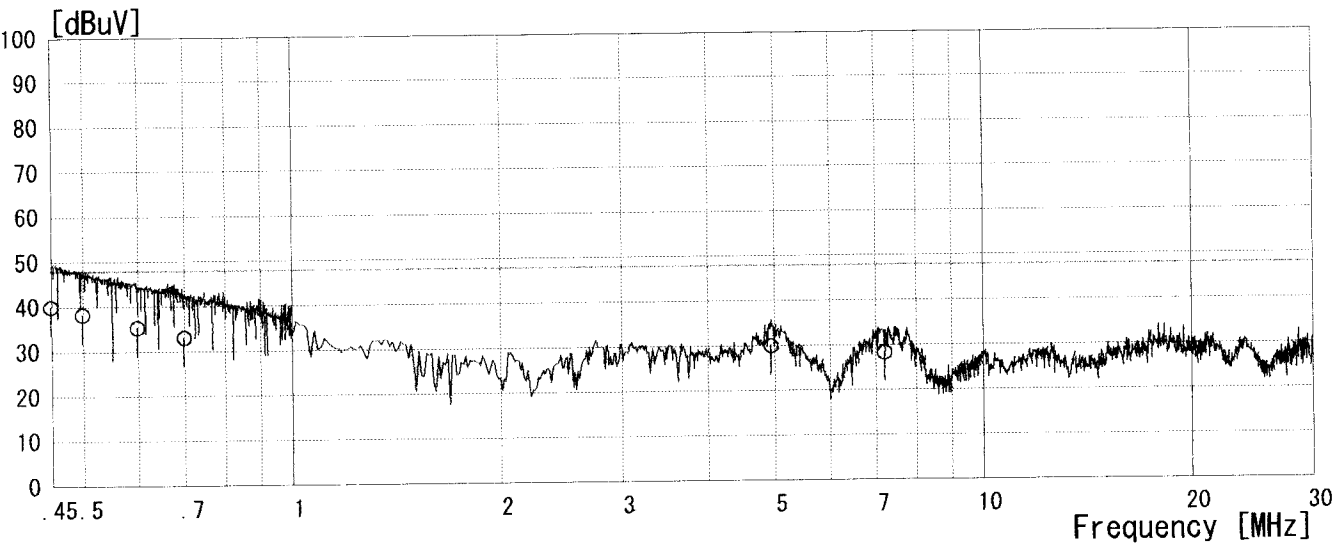
COMPANY : ORION ELECTRIC CO., LTD.
EQUIPMENT : DVD/VCR
MODEL NAME : HR-XVC1U
OPERATION MODE: DVD PLAY
LINE : L
POWER : AC120V/60Hz
REMARKS : -

REPORT No. : 22CE0026-KT-1
DATE : OCTOBER 30, 2001
REGULATION : FCC PART15 SUBPART B
TEST No. : 7

TEST ENGINEER: Hisayuki Kioka

No.	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN	
		QP	AV		QP	AV	QP	AV	QP	AV
			[dBuV]			[dBuV]		[dBuV]		[dB]
1	0.450	39.4	----	0.5	39.9	----	48.0	----	8.1	----
2	0.500	37.7	----	0.5	38.2	----	48.0	----	9.8	----
3	0.600	34.7	----	0.4	35.1	----	48.0	----	12.9	----
4	0.700	32.5	----	0.4	32.9	----	48.0	----	15.1	----
5	4.947	29.3	----	0.6	29.9	----	48.0	----	18.1	----
6	7.223	27.6	----	0.6	28.2	----	48.0	----	19.8	----

RESULTS=READING+CABLE LOSS+LISN FACTOR



DATA OF RADIATION TEST

A-PEX INTERNATIONAL CO., LTD.
YOKOWA NO.2 SITE

COMPANY : ORION ELECTRIC CO., LTD.

EQUIPMENT : DVD/VCR

MODEL No. : HR-XVC1U

POWER : AC120V/60Hz

DESCRIPTION : TV RECEPTION

REPORT No. : 22CE0026-KT-1

REGULATION : FCC PART15 B

TEST DISTANCE : 3m

ATTENUATION : 101-847MHz 6dB

1034-1694MHz 0dB

DATE : October 25, 2001



ENGINEER : SEIGO KAKEHI

VHF Fundamental

2	101	26.6	31.3	BC	10.3	2.2	29.7	15.4	20.1	43.5	28.1	23.4
3	107	27.1	29.6	BC	11.3	2.3	29.7	17.0	19.5	43.5	26.5	24.0
4	113	25.9	29.0	BC	12.2	2.3	29.7	16.7	19.8	43.5	26.8	23.7
5	123	27.3	30.1	BC	13.5	2.5	29.7	19.6	22.4	43.5	23.9	21.1
6	129	29.0	31.0	BC	13.7	2.5	29.7	21.5	23.5	43.5	22.0	20.0
7	221	24.0	22.7	BC	16.7	3.4	29.7	20.4	19.1	46.0	25.6	26.9
8	227	24.3	22.9	BC	16.7	3.4	29.7	20.7	19.3	46.0	25.3	26.7
9	233	23.4	23.5	BC	16.8	3.5	29.7	20.0	20.1	46.0	26.0	25.9
10	239	22.6	23.6	BC	16.8	3.5	29.7	19.2	20.2	46.0	26.8	25.8
11	245	22.7	23.8	BC	16.9	3.6	29.7	19.5	20.6	46.0	26.5	25.4
12	251	22.6	22.8	BC	16.9	3.6	29.7	19.4	19.6	46.0	26.6	26.4
13	257	23.0	24.7	BC	17.2	3.7	29.7	20.2	21.9	46.0	25.8	24.1

VHF 2nd Harmonic

2	202	24.2	23.0	BC	16.5	3.2	29.7	20.2	19.0	43.5	23.3	24.5
3	214	24.8	22.8	BC	16.6	3.3	29.7	21.0	19.0	43.5	22.5	24.5
4	226	23.5	22.5	BC	16.7	3.4	29.7	19.9	18.9	46.0	26.1	27.1
5	246	22.4	23.4	BC	16.9	3.6	29.7	19.2	20.2	46.0	26.8	25.8
6	258	26.2	22.7	BC	17.3	3.7	29.7	23.5	20.0	46.0	22.5	26.0
7	442	22.7	22.7	LP	18.7	5.1	29.9	22.6	22.6	46.0	23.4	23.4
8	454	22.3	22.4	LP	18.9	5.2	29.9	22.5	22.6	46.0	23.5	23.4
9	466	22.9	23.2	LP	19.2	5.3	29.9	23.5	23.8	46.0	22.5	22.2
10	478	23.3	23.3	LP	19.4	5.3	29.9	24.1	24.1	46.0	21.9	21.9
11	490	23.8	24.2	LP	19.6	5.4	29.9	24.9	25.3	46.0	21.1	20.7
12	502	23.7	23.9	LP	19.8	5.5	29.9	25.1	25.3	46.0	20.9	20.7
13	514	22.8	23.3	LP	19.8	5.6	29.8	24.4	24.9	46.0	21.6	21.1

DATA OF RADIATION TEST

A-PEX INTERNATIONAL CO., LTD.
YOKOWA NO.2 SITE

COMPANY : ORION ELECTRIC CO., LTD.

EQUIPMENT : DVD/VCR

MODEL No. : HR-XVC1U

POWER : AC120V/60Hz

DESCRIPTION : TV RECEPTION

REPORT No. : 22CE0026-KT-1

REGULATION : FCC PART15 B

TEST DISTANCE : 3m

ATTENUATION : 101-847MHz 6dB

1034-1694MHz 0dB

DATE : October 25, 2001



ENGINEER : SEIGO KAKEHI

CATV Fundamental

1	119	26.7	29.1	BC	13.2	2.4	29.7	18.6	21.0	43.5	24.9	22.5
95	137	25.0	28.1	BC	14.0	2.6	29.7	17.9	21.0	43.5	25.6	22.5
97	149	29.8	29.5	BC	14.5	2.7	29.7	23.3	23.0	43.5	20.2	20.5
99	161	29.6	27.5	BC	14.9	2.8	29.7	23.6	21.5	43.5	19.9	22.0
14	167	23.3	24.8	BC	15.2	2.9	29.7	17.7	19.2	43.5	25.8	24.3
18	191	23.1	23.6	BC	16.1	3.1	29.6	18.7	19.2	43.5	24.8	24.3
22	215	31.4	23.1	BC	16.6	3.3	29.7	27.6	19.3	43.5	15.9	24.2
23	263	22.0	22.1	BC	17.5	3.7	29.7	19.5	19.6	46.0	26.5	26.4
29	299	22.1	22.1	BC	19.2	3.9	29.8	21.4	21.4	46.0	24.6	24.6
36	341	22.8	22.2	LP	17.1	4.2	29.8	20.3	19.7	46.0	25.7	26.3
37	347	22.9	22.3	LP	17.2	4.3	29.8	20.6	20.0	46.0	25.4	26.0
65	515	22.5	23.4	LP	19.8	5.6	29.8	24.1	25.0	46.0	21.9	21.0
94	689	22.9	22.6	LP	22.2	6.8	29.9	28.0	27.7	46.0	18.0	18.3
100	695	22.6	22.6	LP	22.4	6.8	29.9	27.9	27.9	46.0	18.1	18.1
113	773	21.9	21.9	LP	23.3	7.3	29.7	28.8	28.8	46.0	17.2	17.2
125	845	22.9	27.1	LP	23.9	7.6	29.4	31.0	35.2	46.0	15.0	10.8

CATV 2nd Harmonic

1	238	22.5	23.5	BC	16.8	3.5	29.7	19.1	20.1	46.0	26.9	25.9
95	274	22.0	22.0	BC	18.0	3.8	29.7	20.1	20.1	46.0	25.9	25.9
97	298	22.0	22.1	BC	19.1	3.9	29.8	21.2	21.3	46.0	24.8	24.7
99	322	23.0	22.1	LP	16.8	4.1	29.8	20.1	19.2	46.0	25.9	26.8
14	334	22.6	22.5	LP	17.0	4.2	29.8	20.0	19.9	46.0	26.0	26.1
18	382	22.1	22.1	LP	17.6	4.6	29.9	20.4	20.4	46.0	25.6	25.6
22	430	23.8	22.7	LP	18.5	5.0	29.9	23.4	22.3	46.0	22.6	23.7
23	526	22.4	22.5	LP	19.9	5.6	29.9	24.0	24.1	46.0	22.0	21.9
29	598	22.4	22.3	LP	20.1	6.3	29.9	24.9	24.8	46.0	21.1	21.2
36	682	23.1	22.8	LP	22.1	6.7	29.9	28.0	27.7	46.0	18.0	18.3
37	694	22.4	22.4	LP	22.4	6.8	29.9	27.7	27.7	46.0	18.3	18.3
65	1030	46.8	48.6	HO	24.9	3.5	35.4	41.6	39.8	54.0	12.5	14.2
94	1378	48.0	49.5	HO	26.7	4.0	34.9	45.3	43.8	54.0	8.7	10.2
100	1390	47.7	48.1	HO	26.8	4.0	34.9	44.0	43.6	54.0	10.0	10.4
113	1546	42.1	43.1	HO	27.7	4.3	34.7	40.4	39.4	54.0	13.6	14.6
125	1690	46.4	45.6	HO	28.5	4.5	34.6	44.0	44.8	54.0	10.0	9.2

DATA OF RADIATION TEST

A-PEX INTERNATIONAL CO., LTD.
YOKOWA NO.2 SITE

COMPANY : ORION ELECTRIC CO., LTD.

EQUIPMENT : DVD/VCR

MODEL No. : HR-XVC1U

POWER : AC120V/60Hz

DESCRIPTION : TV RECEPTION

REPORT No. : 22CE0026-KT-1

REGULATION : FCC PART15 B

TEST DISTANCE : 3m

ATTENUATION : 101-847MHz 6dB

1034-1694MHz 0dB

DATE : October 25, 2001



ENGINEER : SEIGO KAKEHI

UHF Fundamental												
14	517	28.3	25.9	LP	19.9	5.6	29.8	30.0	27.6	46.0	16.0	18.4
19	547	24.2	24.5	LP	19.9	5.8	29.9	26.0	26.3	46.0	20.0	19.7
28	601	27.1	25.8	LP	20.1	6.3	29.9	29.6	28.3	46.0	16.4	17.7
36	649	24.9	24.7	LP	21.3	6.5	29.9	28.8	28.6	46.0	17.2	17.4
44	697	25.3	25.6	LP	22.4	6.8	29.9	30.6	30.9	46.0	15.4	15.1
53	751	25.1	25.6	LP	23.1	7.1	29.7	31.6	32.1	46.0	14.4	13.9
61	799	25.3	27.7	LP	23.6	7.4	29.5	32.8	35.2	46.0	13.2	10.8
69	847	24.8	27.4	LP	23.9	7.6	29.4	32.9	35.5	46.0	13.1	10.5
UHF 2nd Harmonic												
14	1034	46.2	47.8	HO	24.9	3.5	35.4	40.8	39.2	54.0	13.3	14.8
19	1094	44.7	47.5	HO	25.2	3.6	35.3	41.0	38.2	54.0	13.0	15.8
28	1202	45.1	47.0	HO	25.8	3.8	35.1	41.5	39.6	54.0	12.6	14.4
36	1298	46.4	49.1	HO	26.3	3.9	35.0	44.3	41.6	54.0	9.7	12.4
44	1394	48.3	48.5	HO	26.8	4.1	34.9	44.5	44.3	54.0	9.6	9.7
53	1502	44.3	44.5	HO	27.4	4.2	34.7	41.4	41.2	54.0	12.6	12.8
61	1598	43.7	46.8	HO	28.0	4.3	34.6	44.5	41.4	54.0	9.5	12.6
69	1694	46.8	46.2	HO	28.5	4.5	34.6	44.6	45.2	54.0	9.4	8.8

DATA OF RADIATION TEST

A-PEX INTERNATIONAL CO., LTD.
YOKOWA No.2 OPEN TEST SITE
Report No. : 22GE0026-KT-1

Applicant : ORION ELECTRIC CO., LTD.
Kind of Equipment : DVD/VCR
Model No. : HR-XVC1U
Serial No. :
Power : AC120V/60Hz
Mode : TV RECEPTION
Remarks : MAXIMUM OPERATION
Date : 10/25/2001
Test Distance : 3 m
Temperature : 23 °C
Humidity : 44 %
Regulation : FCC Part15B CLASS B


Engineer : Seigo Kakehi

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.	50.00	BB	30.7	39.7	11.3	29.8	1.6	6.0	19.8	28.8	40.0	20.2	11.2
2.	162.00	BB	41.6	37.8	15.0	29.7	2.8	5.9	35.6	31.8	43.5	7.9	11.7
3.	175.50	BB	41.0	28.7	15.5	29.7	3.0	5.9	35.7	23.4	43.5	7.8	20.1
4.	202.74	BB	40.1	29.8	16.5	29.7	3.2	5.8	35.9	25.6	43.5	7.6	17.9
5.	243.00	BB	37.0	30.7	16.8	29.7	3.6	5.8	33.5	27.2	46.0	12.5	18.8
6.	891.00	BB	27.2	30.6	24.1	29.2	7.9	6.0	36.0	39.4	46.0	10.0	6.6

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

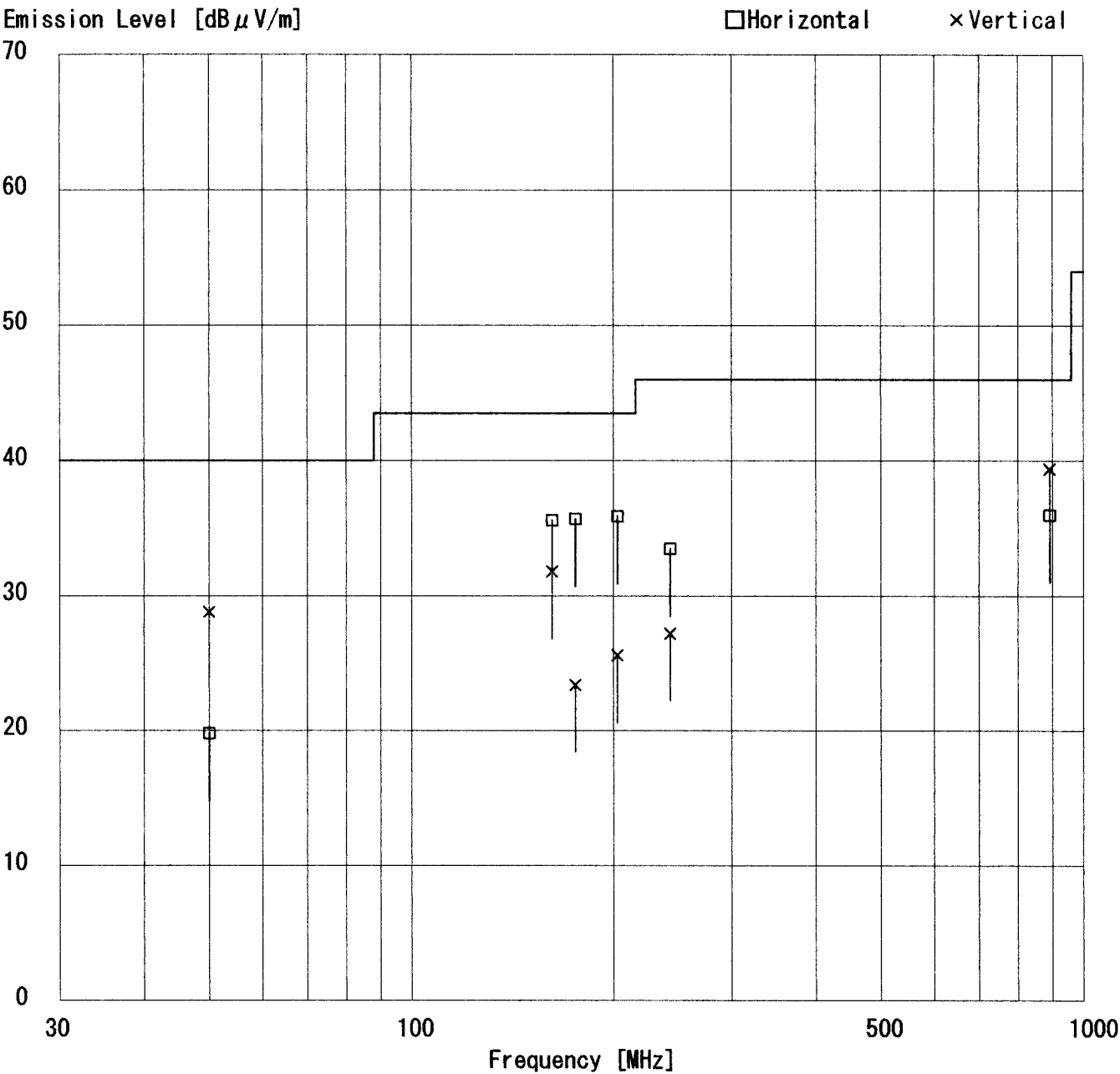
Except for the above table : adequate margin data below the limits.
ANT. TYPE:30-300MHz Biconical, 300-1000MHz Logperiodic.

DATA OF RADIATION TEST

A-PEX INTERNATIONAL CO., LTD.
YOKOWA No.2 OPEN TEST SITE
Report No. : 22CE0026-KT-1

Applicant : ORION ELECTRIC CO., LTD.
Kind of Equipment : DVD/VCR
Model No. : HR-XVC1U
Serial No. :
Power : AC120V/60Hz
Mode : TV RECEPTION
Remarks : MAXIMUM OPERATION
Date : 10/25/2001
Test Distance : 3 m
Temperature : 23 °C
Humidity : 44 %
Regulation : FCC Part15B CLASS B

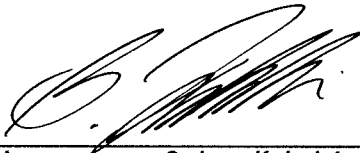

Engineer : Seigo Kakehi



DATA OF RADIATION TEST

A-PEX INTERNATIONAL CO., LTD.
YOKOWA No.2 OPEN TEST SITE
Report No. : 22GE0026-KT-1

Applicant : ORION ELECTRIC CO., LTD.
Kind of Equipment : DVD/VCR
Model No. : HR-XVC1U
Serial No. :
Power : AC120V/60Hz
Mode : AV INPUT (FRONT)
Remarks : MAXIMUM OPERATION
Date : 10/25/2001
Test Distance : 3 m
Temperature : 23 °C
Humidity : 44 %
Regulation : FCC Part15B CLASS B


Engineer : Seigo Kakehi

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.	50.00	BB	33.2	41.0	11.3	29.8	1.6	6.0	22.3	30.1	40.0	17.7	9.9
2.	162.00	BB	38.9	37.5	15.0	29.7	2.8	5.9	32.9	31.5	43.5	10.6	12.0
3.	175.49	BB	31.8	33.6	15.5	29.7	3.0	5.9	26.5	28.3	43.5	17.0	15.2
4.	202.74	BB	35.0	31.0	16.5	29.7	3.2	5.8	30.8	26.8	43.5	12.7	16.7
5.	243.00	BB	39.1	31.2	16.8	29.7	3.6	5.8	35.6	27.7	46.0	10.4	18.3
6.	891.00	BB	26.0	30.8	24.1	29.2	7.9	6.0	34.8	39.6	46.0	11.2	6.4

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

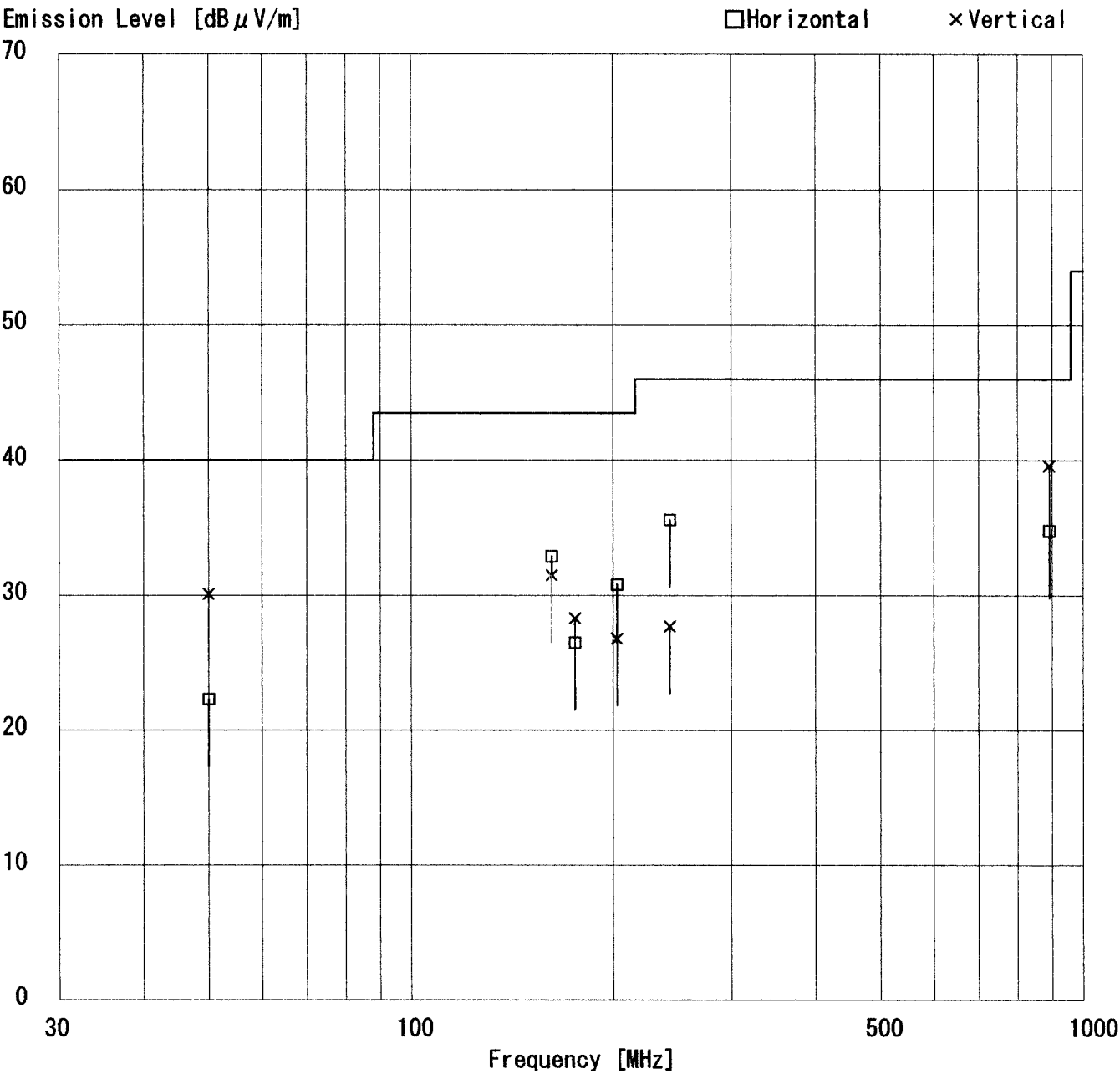
Except for the above table : adequate margin data below the limits.
ANT. TYPE: 30-300MHz Biconical, 300-1000MHz Logperiodic.

DATA OF RADIATION TEST

A-PEX INTERNATIONAL CO., LTD.
YOKOWA No.2 OPEN TEST SITE
Report No. : 22CE0026-KT-1

Applicant : ORION ELECTRIC CO., LTD.
Kind of Equipment : DVD/VCR
Model No. : HR-XVC1U
Serial No. :
Power : AC120V/60Hz
Mode : AV INPUT (FRONT)
Remarks : MAXIMUM OPERATION
Date : 10/25/2001
Test Distance : 3 m
Temperature : 23 °C
Humidity : 44 %
Regulation : FCC Part15B CLASS B


Engineer : Seigo Kakehi



DATA OF RADIATION TEST

A-PEX INTERNATIONAL CO., LTD.
YOKOWA No.2 OPEN TEST SITE
Report No. : 22CE0026-KT-1

Applicant : ORION ELECTRIC CO., LTD.
Kind of Equipment : DVD/VCR
Model No. : HR-XVC1U
Serial No. :
Power : AC120V/60Hz
Mode : VCR PLAYBACK
Remarks :
Date : 10/25/2001
Test Distance : 3 m
Temperature : 23 °C
Humidity : 44 %
Regulation : FCC Part15B CLASS B



Engineer : Seigo Kakehi

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR	AMP GAIN	CABLE LOSS	ATTEN.	RESULT		LIMITS	MARGIN	
			HOR	VER					HOR	VER		HOR	VER
			[dB μ V]		[dB/m]	[dB]	[dB]	[dB]	[dB μ V/m]		[dB μ V/m]	[dB]	
1.	50.00	BB	30.7	38.1	11.3	29.8	1.6	6.0	19.8	27.2	40.0	20.2	12.8
2.	162.01	BB	41.2	39.2	15.0	29.7	2.8	5.9	35.2	33.2	43.5	8.3	10.3
3.	175.50	BB	35.0	34.8	15.5	29.7	3.0	5.9	29.7	29.5	43.5	13.8	14.0
4.	202.75	BB	34.3	26.8	16.5	29.7	3.2	5.8	30.1	22.6	43.5	13.4	20.9
5.	243.00	BB	32.6	29.9	16.8	29.7	3.6	5.8	29.1	26.4	46.0	16.9	19.6
6.	891.00	BB	24.7	30.8	24.1	29.2	7.9	6.0	33.5	39.6	46.0	12.5	6.4

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.

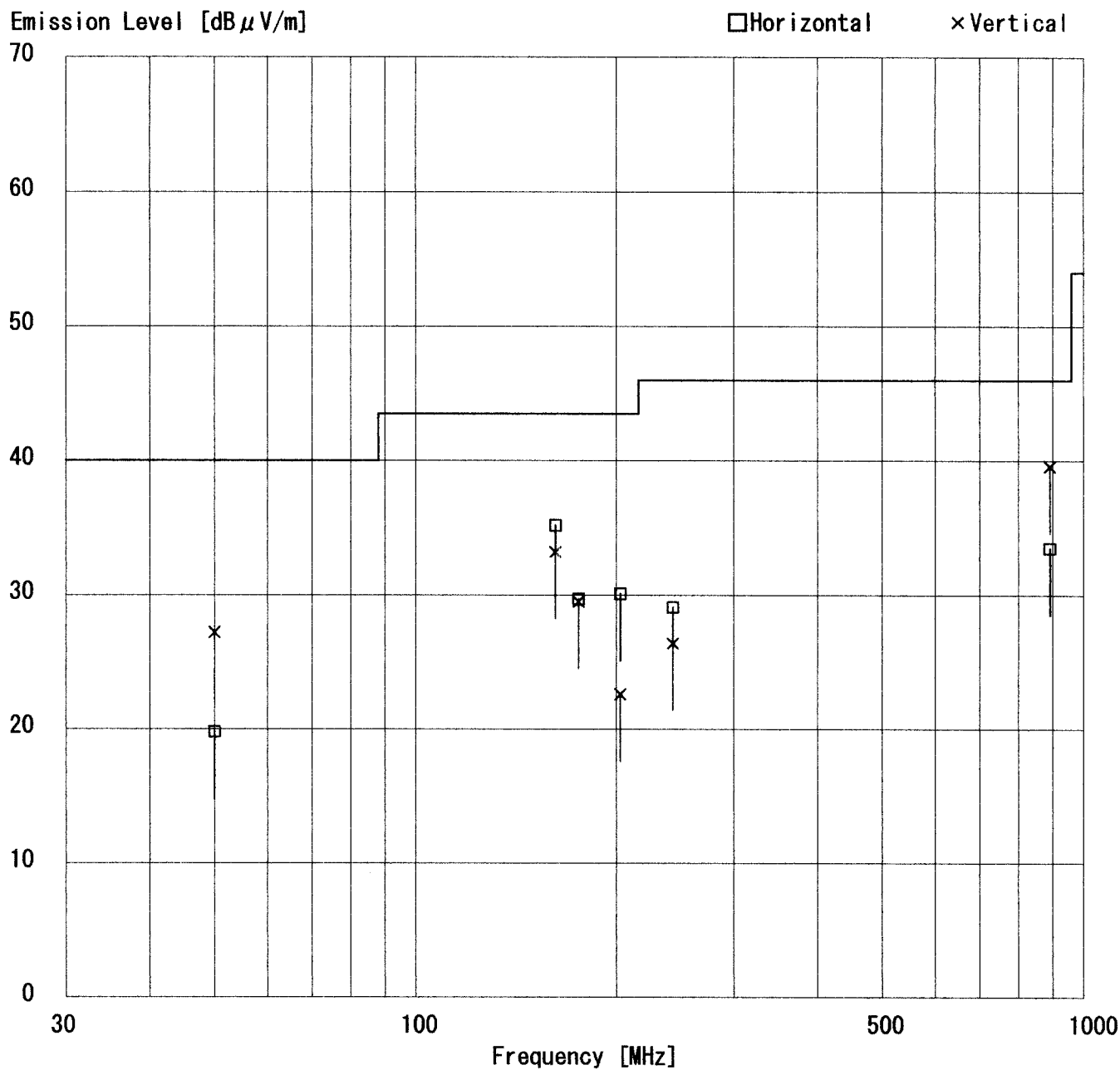
DATA OF RADIATION TEST

A-PEX INTERNATIONAL CO., LTD.
YOKOWA No.2 OPEN TEST SITE
Report No. : 22CE0026-KT-1

Applicant : ORION ELECTRIC CO., LTD.
Kind of Equipment : DVD/VCR
Model No. : HR-XVC1U
Serial No. :
Power : AC120V/60Hz
Mode : VCR PLAYBACK
Remarks :
Date : 10/25/2001
Test Distance : 3 m
Temperature : 23 °C
Humidity : 44 %
Regulation : FCC Part15B CLASS B



Engineer : Seigo Kakehi



DATA OF RADIATION TEST

A-PEX INTERNATIONAL CO., LTD.
YOKOWA No.2 OPEN TEST SITE
Report No. : 22CE0026-KT-1

Applicant : ORION ELECTRIC CO., LTD.
Kind of Equipment : DVD/VCR
Model No. : HR-XVC1U
Serial No. :
Power : AC120V/60Hz
Mode : DVD PLAYBACK
Remarks :
Date : 10/25/2001
Test Distance : 3 m
Temperature : 23 °C
Humidity : 44 %
Regulation : FCC Part15B CLASS B


Engineer : Seigo Kakehi

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR	AMP GAIN	CABLE LOSS	ATTEN.	RESULT		LIMITS	MARGIN	
			HOR	VER					HOR	VER		HOR	VER
			[dB μ V]		[dB/m]	[dB]	[dB]	[dB]	[dB μ V/m]		[dB μ V/m]	[dB]	
1.	50.00	BB	34.5	39.8	11.3	29.8	1.6	6.0	23.6	28.9	40.0	16.4	11.1
2.	161.98	BB	42.7	39.6	15.0	29.7	2.8	5.9	36.7	33.6	43.5	6.8	9.9
3.	175.50	BB	35.4	28.9	15.5	29.7	3.0	5.9	30.1	23.6	43.5	13.4	19.9
4.	202.75	BB	33.5	30.9	16.5	29.7	3.2	5.8	29.3	26.7	43.5	14.2	16.8
5.	243.00	BB	37.5	29.3	16.8	29.7	3.6	5.8	34.0	25.8	46.0	12.0	20.2
6.	891.00	BB	23.9	26.2	24.1	29.2	7.9	6.0	32.7	35.0	46.0	13.3	11.0

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

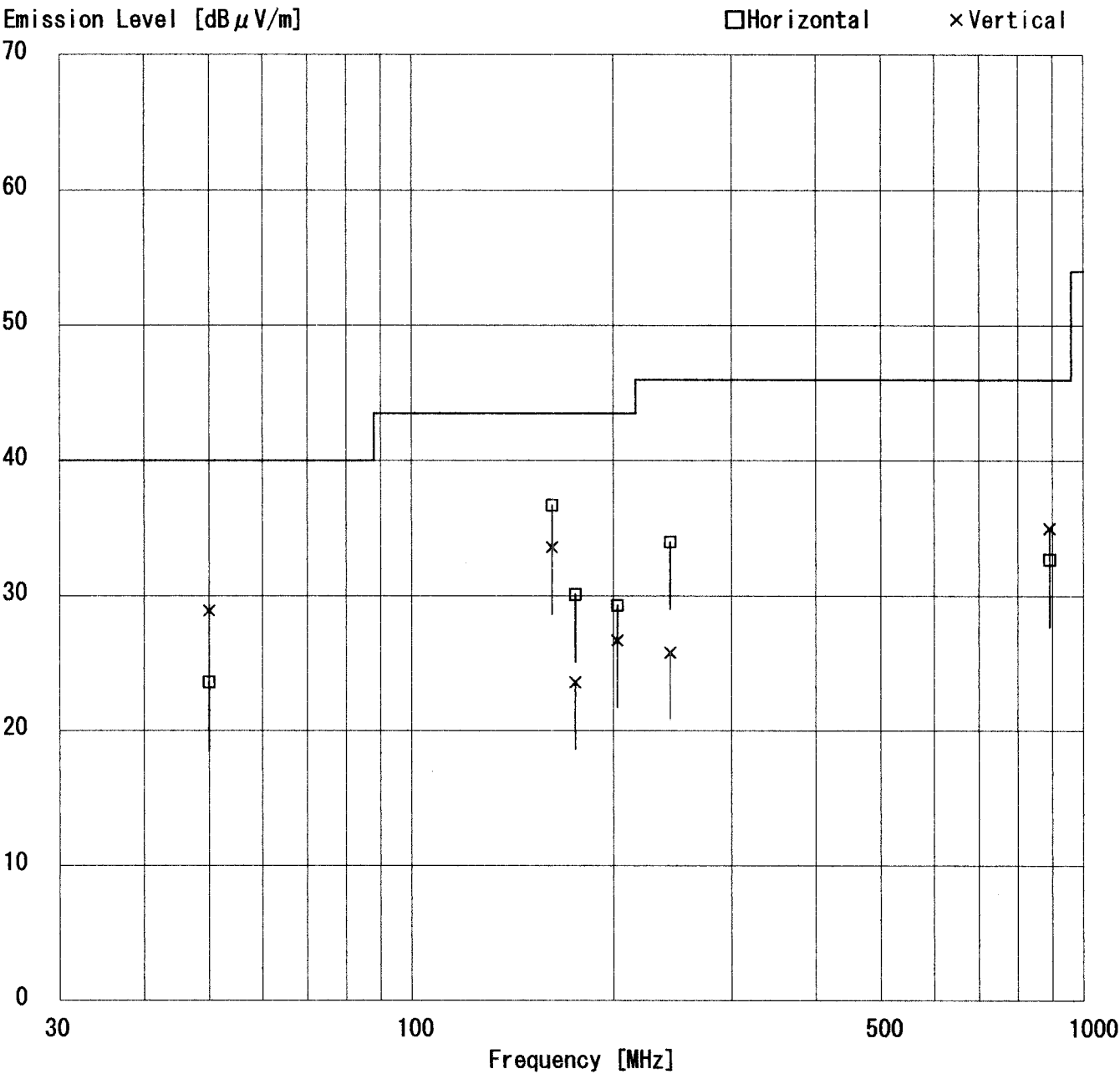
Except for the above table : adequate margin data below the limits.
ANT.TYPE:30-300MHz Biconical, 300-1000MHz Logperiodic.

DATA OF RADIATION TEST

A-PEX INTERNATIONAL CO., LTD.
YOKOWA No.2 OPEN TEST SITE
Report No. : 22CE0026-KT-1

Applicant : ORION ELECTRIC CO., LTD.
Kind of Equipment : DVD/VCR
Model No. : HR-XVC1U
Serial No. :
Power : AC120V/60Hz
Mode : DVD PLAYBACK
Remarks :
Date : 10/25/2001
Test Distance : 3 m
Temperature : 23 °C
Humidity : 44 %
Regulation : FCC Part15B CLASS B


Engineer : Seigo Kakehi



DATA OF RADIATION TEST

A-PEX INTERNATIONAL CO., LTD.
YOKOWA No.2 OPEN TEST SITE
Report No. : 22CE0026-KT-1

Applicant : ORION ELECTRIC CO., LTD.
Kind of Equipment : DVD/VCR
Model No. : HR-XVC1U
Serial No. :
Power : AC120V/60Hz
Mode : MAXIMUM OPERATION
Remarks : TEST CHANNEL #3
Date : 10/25/2001
Test Distance : 3 m
Temperature : 23 °C
Humidity : 44 %
Regulation : FCC Part15B CLASS B


Engineer : Seigo Kakehi

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]		HOR [dB]	VER [dB]
1.	61.25	BB	25.7	27.9	7.4	29.8	1.7	5.9	10.9	13.1	40.0	29.1	26.9
2.	65.75	BB	27.9	34.7	6.8	29.8	1.8	5.8	12.5	19.3	40.0	27.5	20.7
3.	122.50	BB	25.6	29.5	13.5	29.7	2.5	5.9	17.8	21.7	43.5	25.7	21.8
4.	245.00	BB	22.6	23.3	16.9	29.7	3.6	5.8	19.2	19.9	46.0	26.8	26.1

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

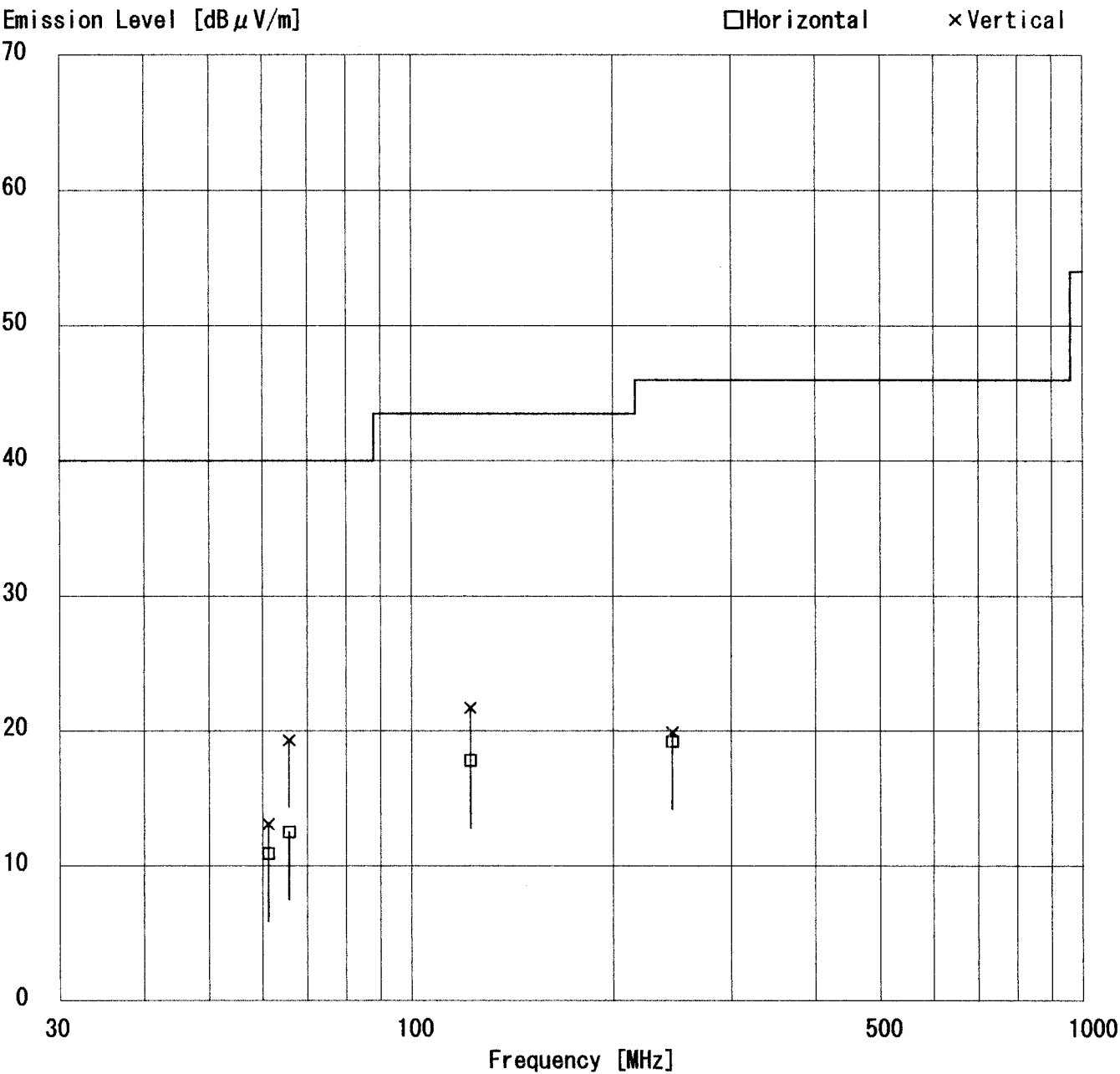
Except for the above table : adequate margin data below the limits.
ANT.TYPE:30-300MHz Biconical, 300-1000MHz Logperiodic.

DATA OF RADIATION TEST

A-PEX INTERNATIONAL CO., LTD.
YOKOWA No.2 OPEN TEST SITE
Report No. : 22GE0026-KT-1

Applicant : ORION ELECTRIC CO., LTD.
Kind of Equipment : DVD/VCR
Model No. : HR-XVC1U
Serial No. :
Power : AC120V/60Hz
Mode : MAXIMUM OPERATION
Remarks : TEST CHANNEL #3
Date : 10/25/2001
Test Distance : 3 m
Temperature : 23 °C
Humidity : 44 %
Regulation : FCC Part15B CLASS B


Engineer : Seigo Kakehi



DATA OF RADIATION TEST

A-PEX INTERNATIONAL CO., LTD.
YOKOWA No.2 OPEN TEST SITE
Report No. : 22CE0026-KT-1

Applicant : ORION ELECTRIC CO., LTD.
Kind of Equipment : DVD/VCR
Model No. : HR-XVC1U
Serial No. :
Power : AC120V/60Hz
Mode : MAXIMUM OPERATION
Remarks : TEST CHANNEL #4
Date : 10/25/2001
Test Distance : 3 m
Temperature : 23 °C
Humidity : 44 %
Regulation : FCC Part15B CLASS B


Engineer : Seigo Kakehi

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	26.7	27.9	6.6	29.8	1.8	5.8	11.1	12.3	40.0	28.9	27.7
2.	71.75	BB	33.7	29.2	6.3	29.8	1.9	5.9	18.0	13.5	40.0	22.0	26.5
3.	134.50	BB	27.6	31.7	13.9	29.7	2.6	5.8	20.2	24.3	43.5	23.3	19.2
4.	201.75	BB	27.6	23.3	16.5	29.7	3.2	5.8	23.4	19.1	43.5	20.1	24.4

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 ANTENNA TERMMINAL

A-PEX INTERNATIONAL CO.,LTD.
Kanto Office EMC Lab.

COMPANY : ORION ELECTRIC CO., LTD.

EQUIPMENT : DVD/VCR

MODEL NAME : HR-XVC1U

OPERATION MODE: TUNNNING

LINE : ANTENA TERMINAL

POWER : AC120V/60Hz

REMARKS : TV MODE

REPORT No. : 22CE0026-KT-1

DATE : OCTOBER 31, 2001

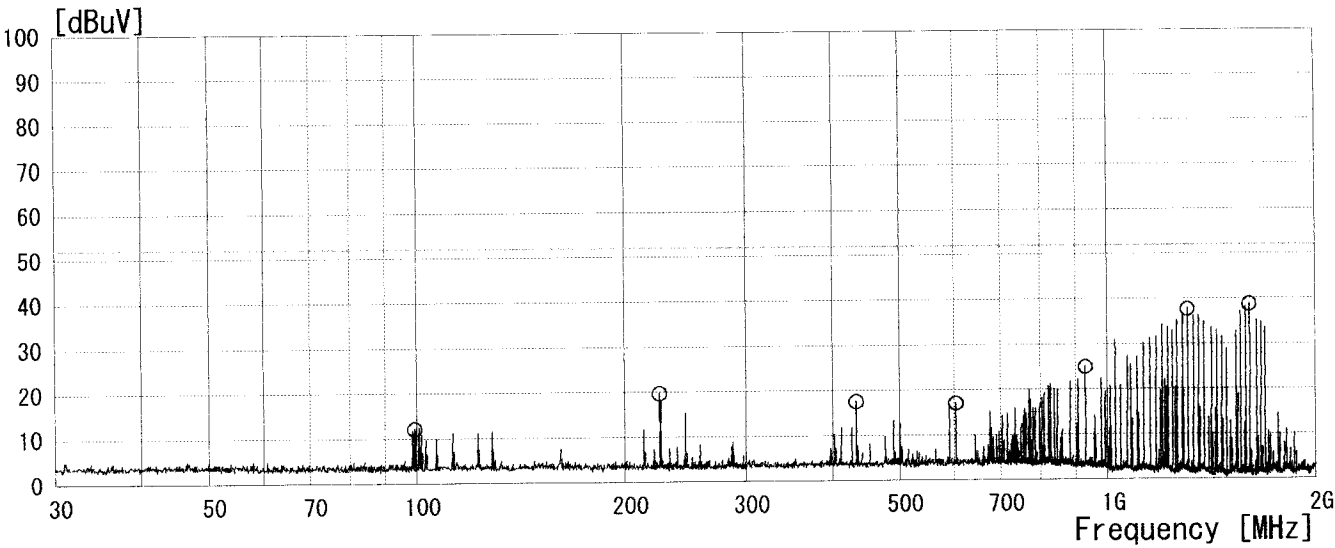
REGULATION : FCC PART15 SUBPART B

TEST No. : 15

TEST ENGINEER:  Htsayuki Kioka

No.	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN	
		QP	AV		QP	AV	QP	AV	QP	AV
		[dBuV]			[dBuV]		[dBuV]		[dB]	
1	99.600	32.3	----	-20.4	11.9	----	52.0	----	40.1	----
2	225.700	39.9	----	-20.4	19.5	----	52.0	----	32.5	----
3	434.300	37.8	----	-20.3	17.5	----	52.0	----	34.5	----
4	605.700	37.3	----	-20.3	17.0	----	52.0	----	35.0	----
5	931.900	45.2	----	-20.3	24.9	----	52.0	----	27.1	----
6	1310.000	66.5	----	-28.9	37.6	----	52.0	----	14.4	----
7	1609.300	67.5	----	-28.8	38.7	----	52.0	----	13.3	----

RESULTS=READING+CABLE LOSS+PAD LOSS-AMP. GAIN



DATA OF ANTENNA TERMMINAL

A-PEX INTERNATIONAL CO.,LTD.
Kanto Office EMC Lab.

COMPANY : ORION ELECTRIC CO., LTD.

EQUIPMENT : DVD/VCR

MODEL NAME : HR-XVC1U

OPERATION MODE: TUNNNING

LINE : ANTENA TERMINAL

POWER : AC120V/60Hz

REMARKS : CATV MODE

REPORT No. : 22GE0026-KT-1

DATE : OCTOBER 31, 2001

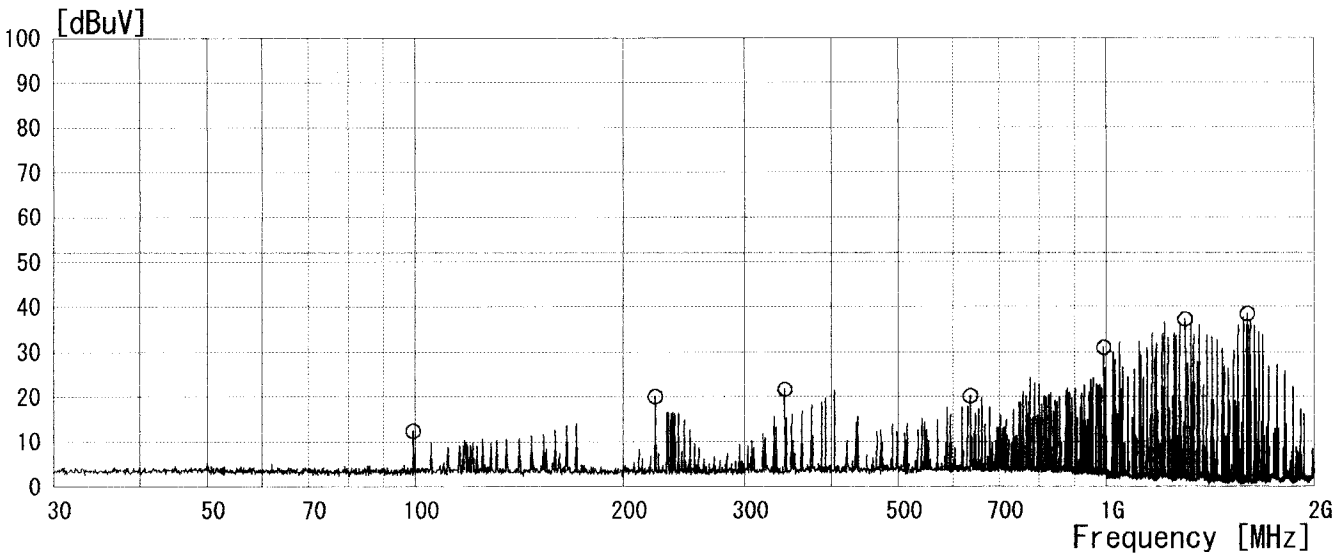
REGULATION : FCC PART15 SUBPART B

TEST No. : 18

TEST ENGINEER:Hisayuki Kioka

No.	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN	
		QP	AV		QP	AV	QP	AV	QP	AV
		[dBuV]			[dBuV]		[dBuV]		[dB]	
1	99.600	32.7	----	-20.4	12.3	----	52.0	----	39.7	----
2	223.100	40.3	----	-20.4	19.9	----	52.0	----	32.1	----
3	343.400	42.0	----	-20.3	21.7	----	52.0	----	30.3	----
4	637.370	40.5	----	-20.3	20.2	----	52.0	----	31.8	----
5	993.600	51.2	----	-20.3	30.9	----	52.0	----	21.1	----
6	1303.600	66.1	----	-28.9	37.2	----	52.0	----	14.8	----
7	1602.900	67.3	----	-28.8	38.5	----	52.0	----	13.5	----

RESULTS=READING+CABLE LOSS+PAD LOSS-AMP. GAIN





RF output level

A-PEX INTERNATIONAL CO., LTD.
Kanto office EMC Lab.

Company : ORION ELECTRIC CO., LTD.

Equipment : DVD/VCR

Model number : HR-XVC1U

Power : AC 120 V / 60 Hz

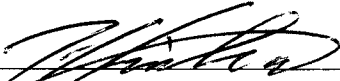
Description : Receive + Rec. mode (0 dBmV)

Report Number : 22CE0026-KT-1

Regulation : FCC Part 15 Subpart B

Date : October 30, 2001

Engineer


Hisayuki Kioka

Video signal

Ch.	Frequency [MHz]	Meter reading [dBuV]	Correction factor [dB]	Result [dB]	Limits [dBuV]	Margin [dB]
3	61.25	88.0	20.4	67.6	69.5	1.9
4	67.25	87.5	20.4	67.1	69.5	2.4

Audio signal

Ch.	Frequency [MHz]	Meter reading [dBuV]	Correction factor [dB]	Result [dB]	Limits [dBuV]	Margin [dB]
3	56.75	72.9	20.4	52.5	56.5	4.0
	65.75	72.0	20.4	51.6	56.5	4.9
4	62.75	72.3	20.4	51.9	56.5	4.6
	71.75	70.8	20.4	50.4	56.5	6.1



RF output level

A-PEX INTERNATIONAL CO., LTD.
Kanto office EMC Lab.

Company : ORION ELECTRIC CO., LTD.

Equipment : DVD/VCR

Model number : HR-XVC1U

Power : AC 120 V / 60 Hz

Description : Receive + Rec. mode (25 dBmV)

Report Number : 22CE0026-KT-1

Regulation : FCC Part 15 Subpart B

Date : October 30, 2001

Engineer


Hisayuki Kioka

Video signal

Ch.	Frequency	Meter reading	Correction factor	Result	Limits	Margin
	[MHz]	[dBuV]	[dB]	[dB]	[dBuV]	[dB]
3	61.25	88.1	20.4	67.7	69.5	1.8
4	67.25	87.3	20.4	66.9	69.5	2.6

Audio signal

Ch.	Frequency	Meter reading	Correction factor	Result	Limits	Margin
	[MHz]	[dBuV]	[dB]	[dB]	[dBuV]	[dB]
3	56.75	73.0	20.4	52.6	56.5	3.9
	65.75	72.0	20.4	51.6	56.5	4.9
4	62.75	72.4	20.4	52.0	56.5	4.5
	71.75	70.8	20.4	50.4	56.5	6.1



RF output level

A-PEX INTERNATIONAL CO., LTD.
Kanto office EMC Lab.

Company : ORION ELECTRIC CO., LTD.

Equipment : DVD/VCR

Model number : HR-XVC1U

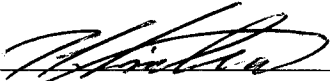
Power : AC 120 V / 60 Hz

Description : AV Input + Rec. mode (1 Vp-p)

Report Number : 22CE0026-KT-1

Regulation : FCC Part 15 Subpart B

Date : October 30, 2001


Engineer : Hisayuki Kioka

Video signal

Ch.	Frequency [MHz]	Meter reading [dBuV]	Correction factor [dB]	Result [dB]	Limits [dBuV]	Margin [dB]
3	61.25	88.0	20.4	67.6	69.5	1.9
4	67.25	87.4	20.4	67.0	69.5	2.5

Audio signal

Ch.	Frequency [MHz]	Meter reading [dBuV]	Correction factor [dB]	Result [dB]	Limits [dBuV]	Margin [dB]
3	56.75	73.3	20.4	52.9	56.5	3.6
	65.75	72.2	20.4	51.8	56.5	4.7
4	62.75	72.9	20.4	52.5	56.5	4.0
	71.75	70.8	20.4	50.4	56.5	6.1



RF output level

A-PEX INTERNATIONAL CO., LTD.
Kanto office EMC Lab.

Company : ORION ELECTRIC CO., LTD.

Equipment : DVD/VCR

Model number : HR-XVC1U

Power : AC 120 V / 60 Hz

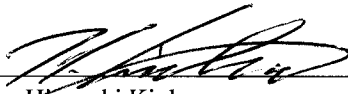
Description : AV Input + Rec. mode (5 Vp-p)

Report Number : 22CE0026-KT-1

Regulation : FCC Part 15 Subpart B

Date : October 30, 2001

Engineer


: Hisayuki Kioka

Video signal

Ch.	Frequency [MHz]	Meter reading [dBuV]	Correction factor [dB]	Result [dB]	Limits [dBuV]	Margin [dB]
3	61.25	88.0	20.4	67.6	69.5	1.9
4	67.25	87.9	20.4	67.5	69.5	2.0

Audio signal

Ch.	Frequency [MHz]	Meter reading [dBuV]	Correction factor [dB]	Result [dB]	Limits [dBuV]	Margin [dB]
3	56.75	73.1	20.4	52.7	56.5	3.8
	65.75	72.3	20.4	51.9	56.5	4.6
4	62.75	72.5	20.4	52.1	56.5	4.4
	71.75	70.8	20.4	50.4	56.5	6.1



RF output level

A-PEX INTERNATIONAL CO., LTD.
Kanto office EMC Lab.

Company : ORION ELECTRIC CO., LTD.

Equipment : DVD/VCR

Model number : HR-XVC1U

Power : AC 120 V / 60 Hz

Description : VCR playback mode

Report Number : 22CE0026-KT-1

Regulation : FCC Part 15 Subpart B

Date : October 30, 2001

Engineer


: Hisayuki Kioka

Video signal

Ch.	Frequency	Meter reading	Correction factor	Result	Limits	Margin
	[MHz]	[dBuV]	[dB]	[dB]	[dBuV]	[dB]
3	61.25	88.3	20.4	67.9	69.5	1.6
4	67.25	87.2	20.4	66.8	69.5	2.7

Audio signal

Ch.	Frequency	Meter reading	Correction factor	Result	Limits	Margin
	[MHz]	[dBuV]	[dB]	[dB]	[dBuV]	[dB]
3	56.75	73.9	20.4	53.5	56.5	3.0
	65.75	72.0	20.4	51.6	56.5	4.9
4	62.75	72.4	20.4	52.0	56.5	4.5
	71.75	70.8	20.4	50.4	56.5	6.1



RF output level

A-PEX INTERNATIONAL CO., LTD.
Kanto office EMC Lab.

Company : ORION ELECTRIC CO., LTD.

Equipment : DVD/VCR

Model number : HR-XVC1U

Power : AC 120 V / 60 Hz

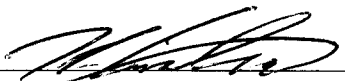
Description : DVD play mode

Report Number : 22CE0026-KT-1

Regulation : FCC Part 15 Subpart B

Date : October 30, 2001

Engineer


: Hisayuki Kioka

Video signal

Ch.	Frequency [MHz]	Meter reading [dBuV]	Correction factor [dB]	Result [dB]	Limits [dBuV]	Margin [dB]
3	61.25	88.2	20.4	67.8	69.5	1.7
4	67.25	87.9	20.4	67.5	69.5	2.0

Audio signal

Ch.	Frequency [MHz]	Meter reading [dBuV]	Correction factor [dB]	Result [dB]	Limits [dBuV]	Margin [dB]
3	56.75	73.1	20.4	52.7	56.5	3.8
	65.75	72.0	20.4	51.6	56.5	4.9
4	62.75	72.9	20.4	52.5	56.5	4.0
	71.75	70.9	20.4	50.5	56.5	6.0

SRURIOUS FROM RF OUTPUT TERMINAL

A-PEX INTERNATIONAL CO.,LTD.
KANTO OFFICE EMC LAB.

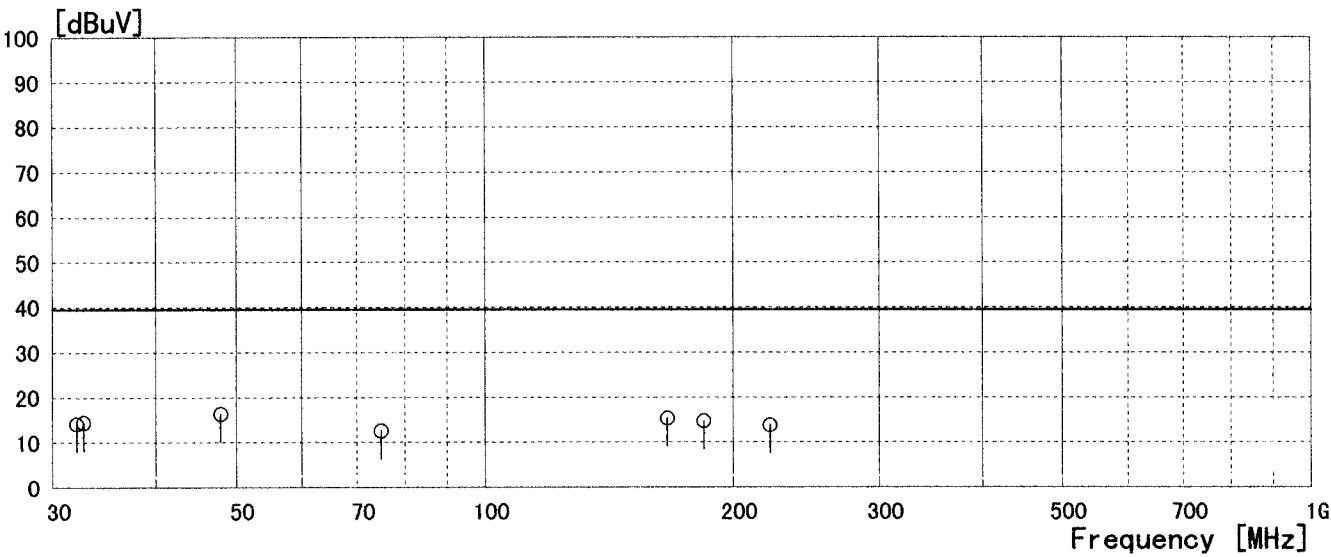
COMPANY : ORION ELECTRIC CO., LTD.
EQUIPEMENT : DVD/VCR
MODEL NAME : HR-XVC1U
OPERATION MODE: RECEIVE+REC (3CH OUTPUT)
PORT : RF OUTPUT TERMINAL
POWER : AC120V/60Hz
REMARKS : OdBmV
:

REPORT No. : 22CE0026-KT-1
DATE : OCTOBER 30, 2001
REGULATION : FCC PART15 SUBPART B
TEST NO. : 1

TEST ENGINEER: HTSAYUKI KIOKA

No.	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN	
		QP	AV		QP	AV	QP	AV	QP	AV
		[dBuV]			[dBuV]		[dBuV]		[dB]	
1	32.110	35.8	----	-21.7	14.1	----	39.5	----	25.4	----
2	32.740	36.1	----	-21.7	14.4	----	39.5	----	25.1	----
3	47.940	37.9	----	-21.6	16.3	----	39.5	----	23.2	----
4	74.940	34.0	----	-21.5	12.5	----	39.5	----	27.0	----
5	166.400	36.7	----	-21.4	15.3	----	39.5	----	24.2	----
6	184.300	36.1	----	-21.4	14.7	----	39.5	----	24.8	----
7	221.700	35.2	----	-21.4	13.8	----	39.5	----	25.7	----

RESULT=READING+CABLE LOSS+PAD LOSS-AMP. GAIN



SRURIOUS FROM RF OUTPUT TERMINAL

A-PEX INTERNATIONAL CO., LTD.
KANTO OFFICE EMC LAB.

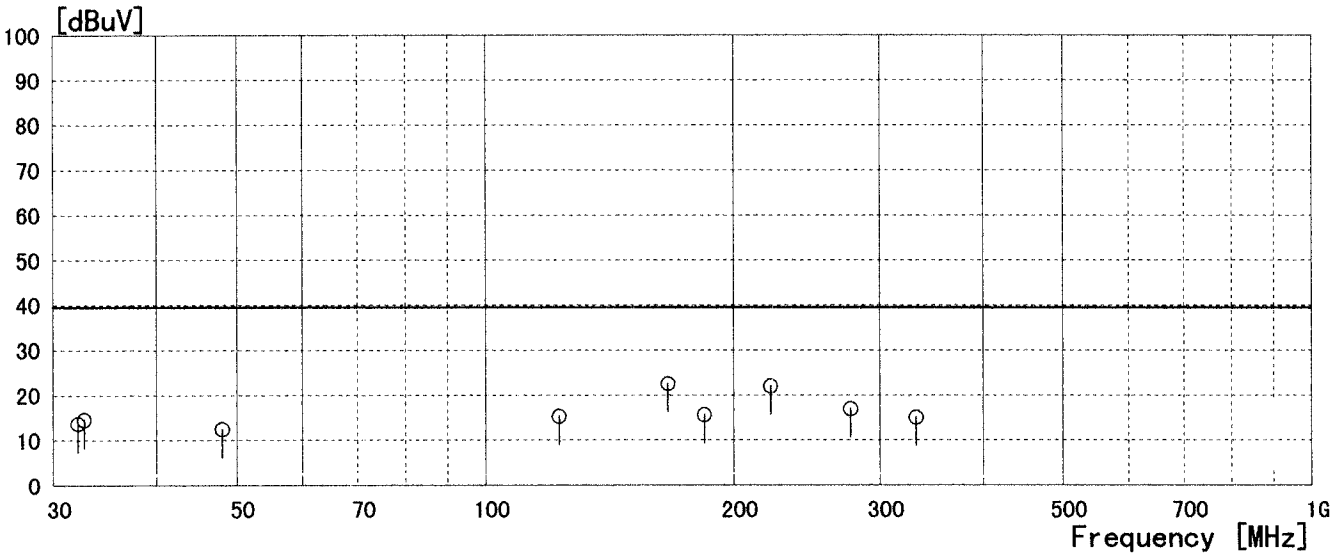
COMPANY : ORION ELECTRIC CO., LTD.
EQUIPEMENT : DVD/VCR
MODEL NAME : HR-XVC1U
OPERATION MODE: RECEIVE+REC (3CH OUTPUT)
PORT : RF OUTPUT TERMINAL
POWER : AC120V/60Hz
REMARKS : 25dBmV
:

REPORT No. : 22GE0026-KT-1
DATE : OCTOBER 30, 2001
REGULATION : FCC PART15 SUBPART B
TEST NO. : 2

TEST ENGINEER: HISAYUKI KIOKA

No.	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN	
		QP	AV		QP	AV	QP	AV	QP	AV
		[dBuV]			[dBuV]		[dBuV]		[dB]	
1	32.170	35.3	----	-21.7	13.6	----	39.5	----	25.9	----
2	32.740	36.2	----	-21.7	14.5	----	39.5	----	25.0	----
3	48.060	34.0	----	-21.6	12.4	----	39.5	----	27.1	----
4	122.800	36.6	----	-21.4	15.2	----	39.5	----	24.3	----
5	166.400	43.9	----	-21.4	22.5	----	39.5	----	17.0	----
6	184.300	37.0	----	-21.4	15.6	----	39.5	----	23.9	----
7	221.700	43.4	----	-21.4	22.0	----	39.5	----	17.5	----
8	277.000	38.3	----	-21.4	16.9	----	39.5	----	22.6	----
9	332.300	36.4	----	-21.4	15.0	----	39.5	----	24.5	----

RESULT=READING+CABLE LOSS+PAD LOSS-AMP. GAIN



SRURIOUS FROM RF OUTPUT TERMINAL

A-PEX INTERNATIONAL CO., LTD.
KANTO OFFICE EMC LAB.

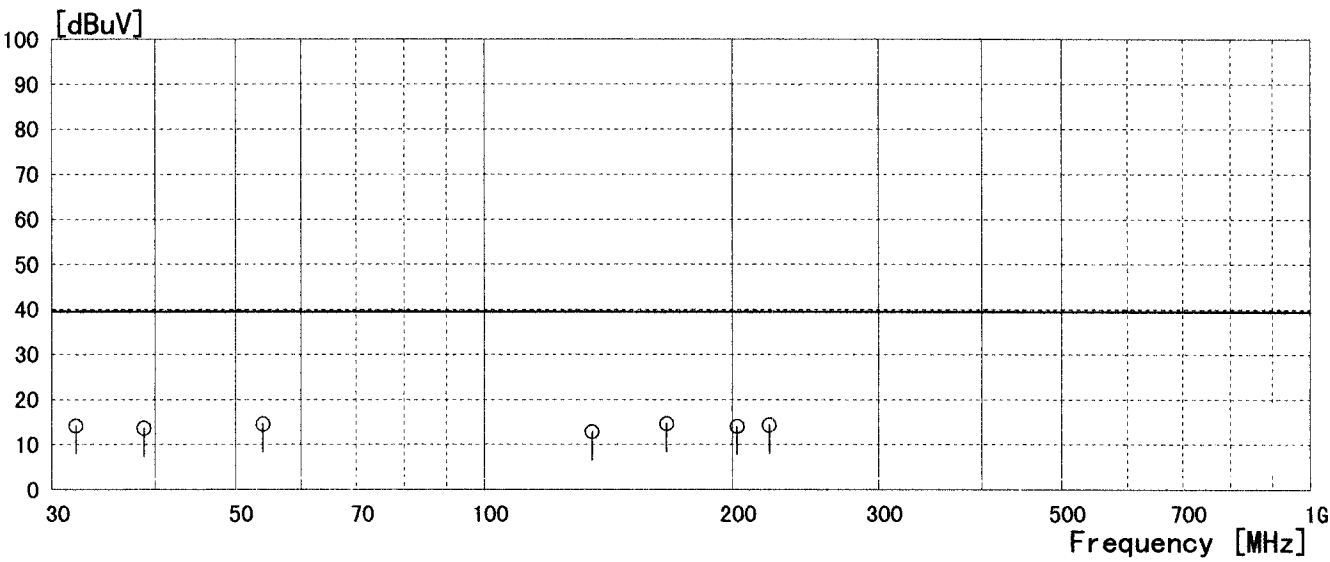
COMPANY : ORION ELECTRIC CO., LTD.
EQUIPEMENT : DVD/VCR
MODEL NAME : HR-XVC1U
OPERATION MODE: RECEIVE+REC (4CH OUTPUT)
PORT : RF OUTPUT TERMINAL
POWER : AC120V/60Hz
REMARKS : 0dBmV
:

REPORT No. : 22CE0026-KT-1
DATE : OCTOBER 30, 2001
REGULATION : FCC PART15 SUBPART B
TEST NO. : 4


TEST ENGINEER: HTSAYUKI KIOKA

No.	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN	
		QP	AV		QP	AV	QP	AV	QP	AV
		[dBuV]			[dBuV]		[dBuV]		[dB]	
1	32.110	35.8	----	-21.7	14.1	----	39.5	----	25.4	----
2	38.800	35.2	----	-21.6	13.6	----	39.5	----	25.9	----
3	54.000	36.1	----	-21.6	14.5	----	39.5	----	25.0	----
4	135.100	34.2	----	-21.4	12.8	----	39.5	----	26.7	----
5	166.400	36.0	----	-21.4	14.6	----	39.5	----	24.9	----
6	202.700	35.4	----	-21.4	14.0	----	39.5	----	25.5	----
7	221.700	35.7	----	-21.4	14.3	----	39.5	----	25.2	----

RESULT=READING+CABLE LOSS+PAD LOSS-AMP. GAIN



SRURIOUS FROM RF OUTPUT TERMINAL

A-PEX INTERNATIONAL CO., LTD.
KANTO OFFICE EMC LAB.

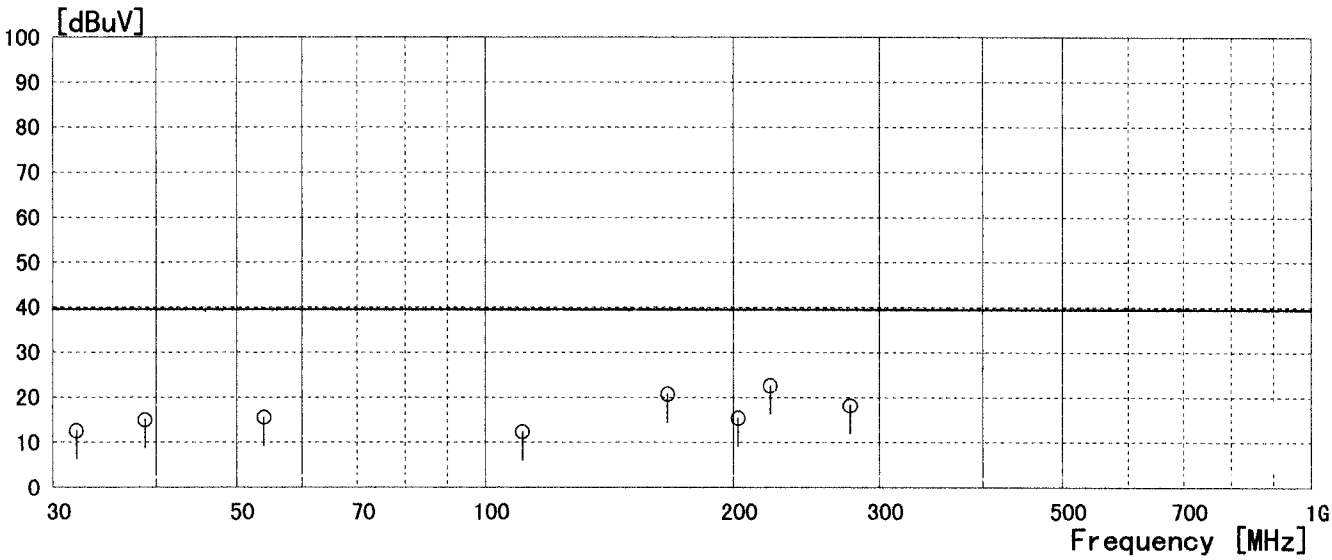
COMPANY : ORION ELECTRIC CO., LTD.
EQUIPEMENT : DVD/VCR
MODEL NAME : HR-XVC1U
OPERATION MODE: RECEIVE+REC (4CH OUTPUT)
PORT : RF OUTPUT TERMINAL
POWER : AC120V/60Hz
REMARKS : 25dBmV
:

REPORT No. : 22CE0026-KT-1
DATE : OCTOBER 30, 2001
REGULATION : FCC PART15 SUBPART B
TEST NO. : 3


TEST ENGINEER: HTSAYUKI KIOKA

No.	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN	
		QP	AV		QP	AV	QP	AV	QP	AV
		[dBuV]			[dBuV]		[dBuV]		[dB]	
1	32.060	34.2	----	-21.7	12.5	----	39.5	----	27.0	----
2	38.800	36.6	----	-21.6	15.0	----	39.5	----	24.5	----
3	54.000	37.1	----	-21.6	15.5	----	39.5	----	24.0	----
4	111.000	33.7	----	-21.4	12.3	----	39.5	----	27.2	----
5	166.400	42.1	----	-21.4	20.7	----	39.5	----	18.8	----
6	202.700	36.8	----	-21.4	15.4	----	39.5	----	24.1	----
7	221.700	44.0	----	-21.4	22.6	----	39.5	----	16.9	----
8	277.000	39.6	----	-21.4	18.2	----	39.5	----	21.3	----

RESULT=READING+CABLE LOSS+PAD LOSS-AMP. GAIN



SRURIOUS FROM RF OUTPUT TERMINAL

A-PEX INTERNATIONAL CO., LTD.
KANTO OFFICE EMC LAB.

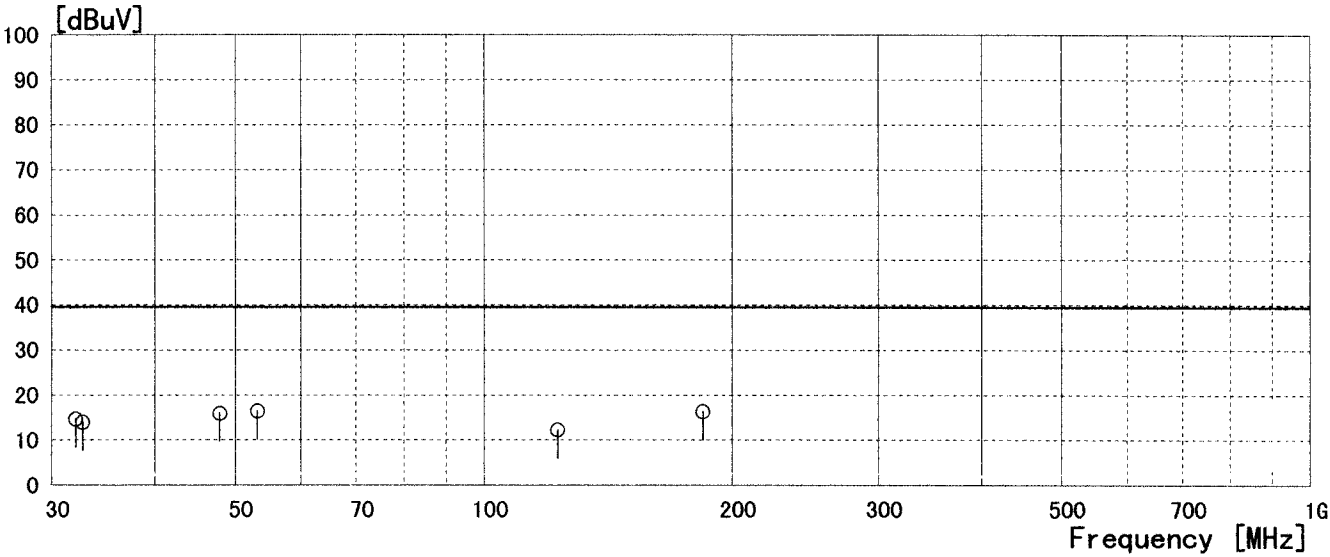
COMPANY : ORION ELECTRIC CO., LTD.
EQUIPEMENT : DVD/VCR
MODEL NAME : HR-XVC1U
OPERATION MODE: AV INPUT+REC (3CH OUTPUT)
PORT : RF OUTPUT TERMINAL
POWER : AC120V/60Hz
REMARKS : 1Vp-p
:

REPORT No. : 22CE0026-KT-1
DATE : OCTOBER 30, 2001
REGULATION : FCC PART15 SUBPART B
TEST NO. : 5


TEST ENGINEER: HTSAYUKI KIOKA

No.	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN	
		QP	AV		QP	AV	QP	AV	QP	AV
		[dBuV]			[dBuV]		[dBuV]		[dB]	
1	32.110	36.3	----	-21.7	14.6	----	39.5	----	24.9	----
2	32.740	35.6	----	-21.7	13.9	----	39.5	----	25.6	----
3	47.940	37.5	----	-21.6	15.9	----	39.5	----	23.6	----
4	53.200	38.0	----	-21.6	16.4	----	39.5	----	23.1	----
5	122.800	33.6	----	-21.4	12.2	----	39.5	----	27.3	----
6	184.300	37.7	----	-21.4	16.3	----	39.5	----	23.2	----

RESULT=READING+CABLE LOSS+PAD LOSS-AMP. GAIN



SRURIOUS FROM RF OUTPUT TERMINAL

A-PEX INTERNATIONAL CO., LTD.
KANTO OFFICE EMC LAB.

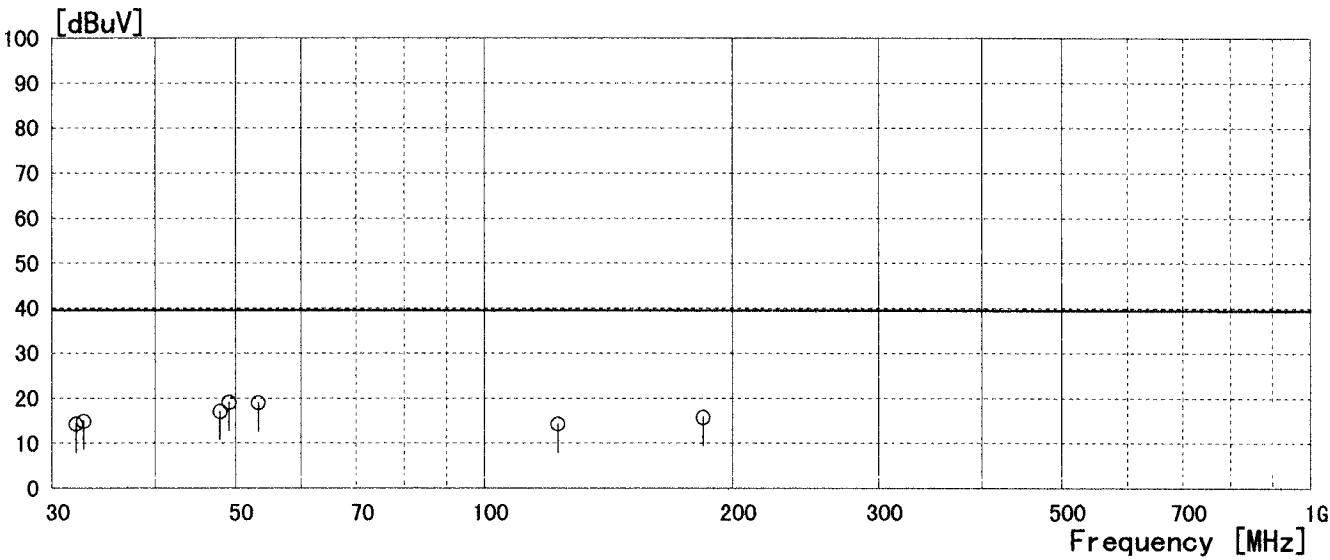
COMPANY : ORION ELECTRIC CO., LTD.
EQUIPEMENT : DVD/VCR
MODEL NAME : HR-XVC1U
OPERATION MODE: AV INPUT+REC (3CH OUTPUT)
PORT : RF OUTPUT TERMINAL
POWER : AC120V/60Hz
REMARKS : 5Vp-p
:

REPORT No. : 22CE0026-KT-1
DATE : OCTOBER 30, 2001
REGULATION : FCC PART15 SUBPART B
TEST NO. : 6


TEST ENGINEER: HITSAYUKI KIOKA

No.	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN	
		QP	AV		QP	AV	QP	AV	QP	AV
		[dBuV]			[dBuV]		[dBuV]		[dB]	
1	32.110	35.9	----	-21.7	14.2	----	39.5	----	25.3	----
2	32.800	36.5	----	-21.7	14.8	----	39.5	----	24.7	----
3	47.940	38.6	----	-21.6	17.0	----	39.5	----	22.5	----
4	49.140	40.6	----	-21.6	19.0	----	39.5	----	20.5	----
5	53.310	40.5	----	-21.6	18.9	----	39.5	----	20.6	----
6	122.800	35.6	----	-21.4	14.2	----	39.5	----	25.3	----
	184.300	37.1	----	-21.4	15.7	----	39.5	----	23.8	----

RESULT=READING+CABLE LOSS+PAD LOSS-AMP. GAIN



SRURIOUS FROM RF OUTPUT TERMINAL

A-PEX INTERNATIONAL CO., LTD.
KANTO OFFICE EMC LAB.

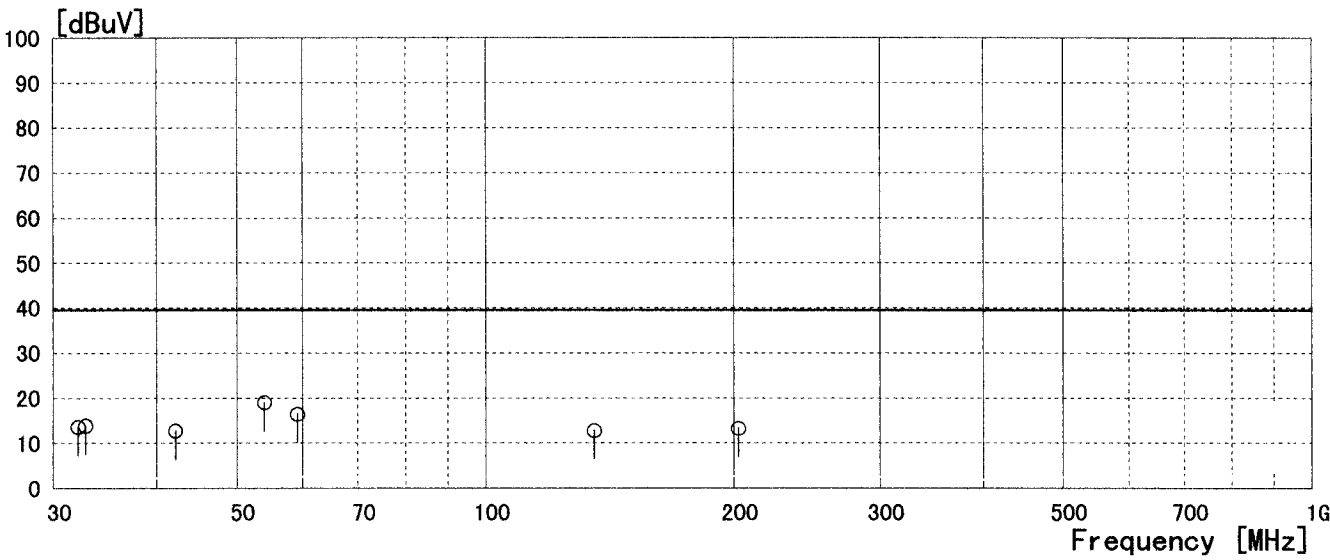
COMPANY : ORION ELECTRIC CO., LTD.
EQUIPEMENT : DVD/VCR
MODEL NAME : HR-XVC1U
OPERATION MODE: AV INPUT+REC (4CH OUTPUT)
PORT : RF OUTPUT TERMINAL
POWER : AC120V/60Hz
REMARKS : 1Vp-p
:

REPORT No. : 22CE0026-KT-1
DATE : OCTOBER 30, 2001
REGULATION : FCC PART15 SUBPART B
TEST NO. : 7

TEST ENGINEER: HITSUYUKI KIOKA

No.	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN	
		QP	AV		QP	AV	QP	AV	QP	AV
		[dBuV]			[dBuV]		[dBuV]		[dB]	
1	32.170	35.2	----	-21.7	13.5	----	39.5	----	26.0	----
2	32.840	35.5	----	-21.7	13.8	----	39.5	----	25.7	----
3	42.170	34.3	----	-21.6	12.7	----	39.5	----	26.8	----
4	54.000	40.5	----	-21.6	18.9	----	39.5	----	20.6	----
5	59.200	37.9	----	-21.5	16.4	----	39.5	----	23.1	----
6	135.400	34.1	----	-21.4	12.7	----	39.5	----	26.8	----
	202.500	34.6	----	-21.4	13.2	----	39.5	----	26.3	----

RESULT=READING+CABLE LOSS+PAD LOSS-AMP. GAIN



SRURIOUS FROM RF OUTPUT TERMINAL

A-PEX INTERNATIONAL CO., LTD.
KANTO OFFICE EMC LAB.

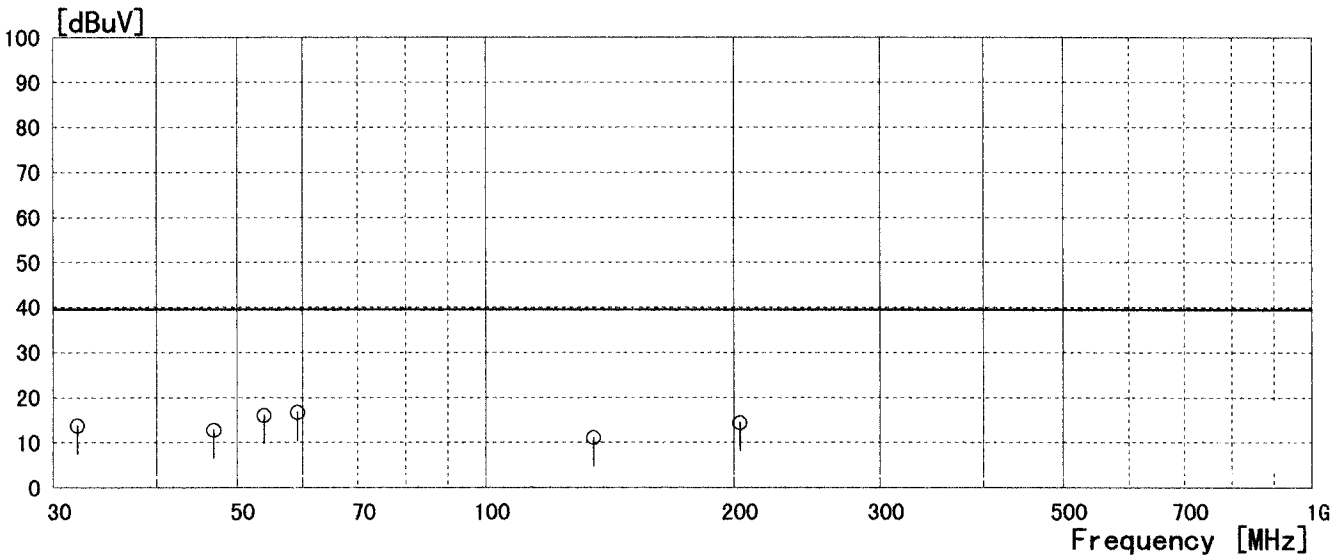
COMPANY : ORION ELECTRIC CO., LTD.
EQUIPEMENT : DVD/VCR
MODEL NAME : HR-XVC1U
OPERATION MODE: AV INPUT+REC (4CH OUTPUT)
PORT : RF OUTPUT TERMINAL
POWER : AC120V/60Hz
REMARKS : 5Vp-p

REPORT No. : 22CE0026-KT-1
DATE : OCTOBER 30, 2001
REGULATION : FCC PART15 SUBPART B
TEST NO. : 8

TEST ENGINEER: HISAYUKI KIOKA

No.	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN	
		QP	AV		QP	AV	QP	AV	QP	AV
		[dBuV]			[dBuV]		[dBuV]		[dB]	
1	32.110	35.4	----	-21.7	13.7	----	39.5	----	25.8	----
2	46.910	34.3	----	-21.6	12.7	----	39.5	----	26.8	----
3	53.940	37.6	----	-21.6	16.0	----	39.5	----	23.5	----
4	59.200	38.2	----	-21.5	16.7	----	39.5	----	22.8	----
5	135.100	32.4	----	-21.4	11.0	----	39.5	----	28.5	----
6	203.300	35.8	----	-21.4	14.4	----	39.5	----	25.1	----

RESULT=READING+CABLE LOSS+PAD LOSS-AMP. GAIN



SRURIOUS FROM RF OUTPUT TERMINAL

A-PEX INTERNATIONAL CO., LTD.
KANTO OFFICE EMC LAB.

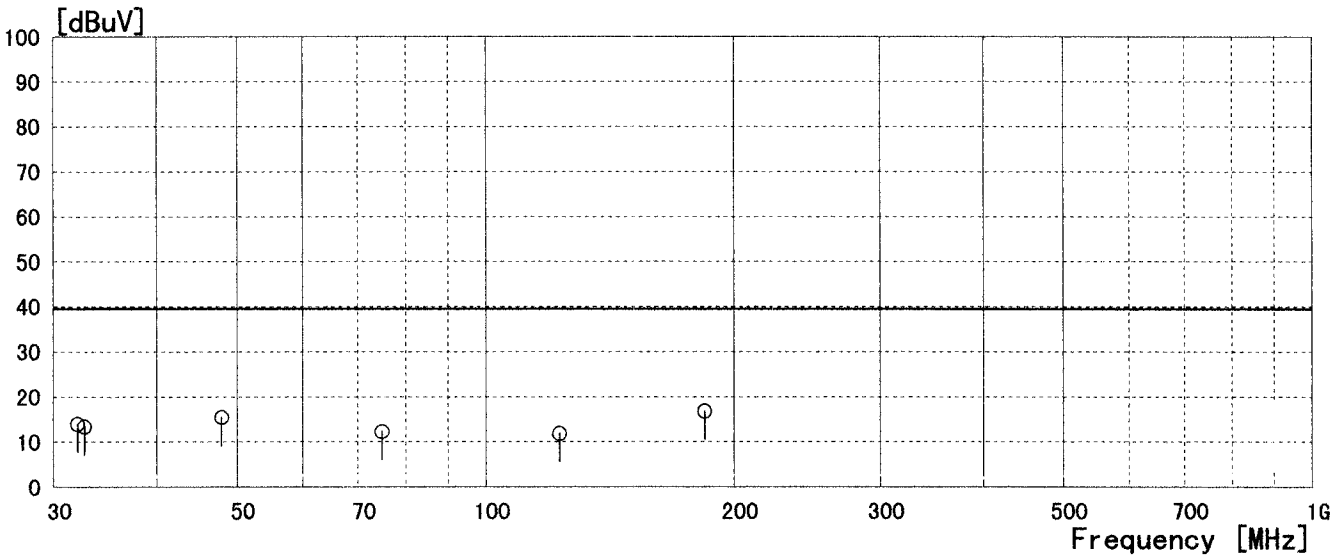
COMPANY : ORION ELECTRIC CO., LTD.
EQUIPEMENT : DVD/VCR
MODEL NAME : HR-XVC1U
OPERATION MODE: VCR PLAYBACK (3CH OUTPUT)
PORT : RF OUTPUT TERMINAL
POWER : AC120V/60Hz
REMARKS :
:

REPORT No. : 22CE0026-KT-1
DATE : OCTOBER 30, 2001
REGULATION : FCC PART15 SUBPART B
TEST NO. : 9

TEST ENGINEER: HTSAYUKI KIOKA

No.	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN	
		QP	AV		QP	AV	QP	AV	QP	AV
		[dBuV]			[dBuV]		[dBuV]		[dB]	
1	32.110	35.6	----	-21.7	13.9	----	39.5	----	25.6	----
2	32.740	35.0	----	-21.7	13.3	----	39.5	----	26.2	----
3	47.940	37.0	----	-21.6	15.4	----	39.5	----	24.1	----
4	74.900	33.7	----	-21.5	12.2	----	39.5	----	27.3	----
5	122.800	33.2	----	-21.4	11.8	----	39.5	----	27.7	----
6	184.300	38.2	----	-21.4	16.8	----	39.5	----	22.7	----

RESULT=READING+CABLE LOSS+PAD LOSS-AMP. GAIN



SRURIOUS FROM RF OUTPUT TERMINAL

A-PEX INTERNATIONAL CO., LTD.
KANTO OFFICE EMC LAB.

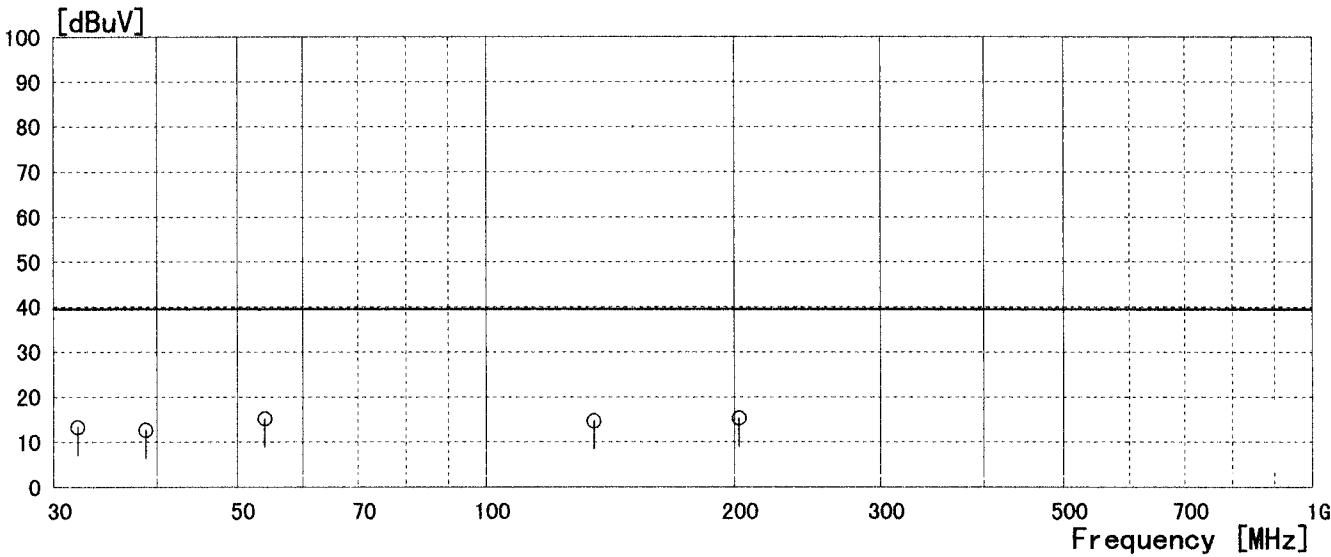
COMPANY : ORION ELECTRIC CO., LTD.
EQUIPEMENT : DVD/VCR
MODEL NAME : HR-XVC1U
OPERATION MODE: VCR PLAYBACK (4CH OUTPUT)
PORT : RF OUTPUT TERMINAL
POWER : AC120V/60Hz
REMARKS : -

REPORT No. : 22CE0026-KT-1
DATE : OCTOBER 30, 2001
REGULATION : FCC PART15 SUBPART B
TEST NO. : 10

TEST ENGINEER: HISAYUKI KIOKA

No.	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN	
		QP	AV		QP	AV	QP	AV	QP	AV
		[dBuV]			[dBuV]		[dBuV]		[dB]	
1	32.110	35.0	----	-21.7	13.3	----	39.5	----	26.2	----
2	38.800	34.3	----	-21.6	12.7	----	39.5	----	26.8	----
3	54.000	36.7	----	-21.6	15.1	----	39.5	----	24.4	----
4	135.100	36.0	----	-21.4	14.6	----	39.5	----	24.9	----
5	202.700	36.7	----	-21.4	15.3	----	39.5	----	24.2	----

RESULT=READING+CABLE LOSS+PAD LOSS-AMP. GAIN

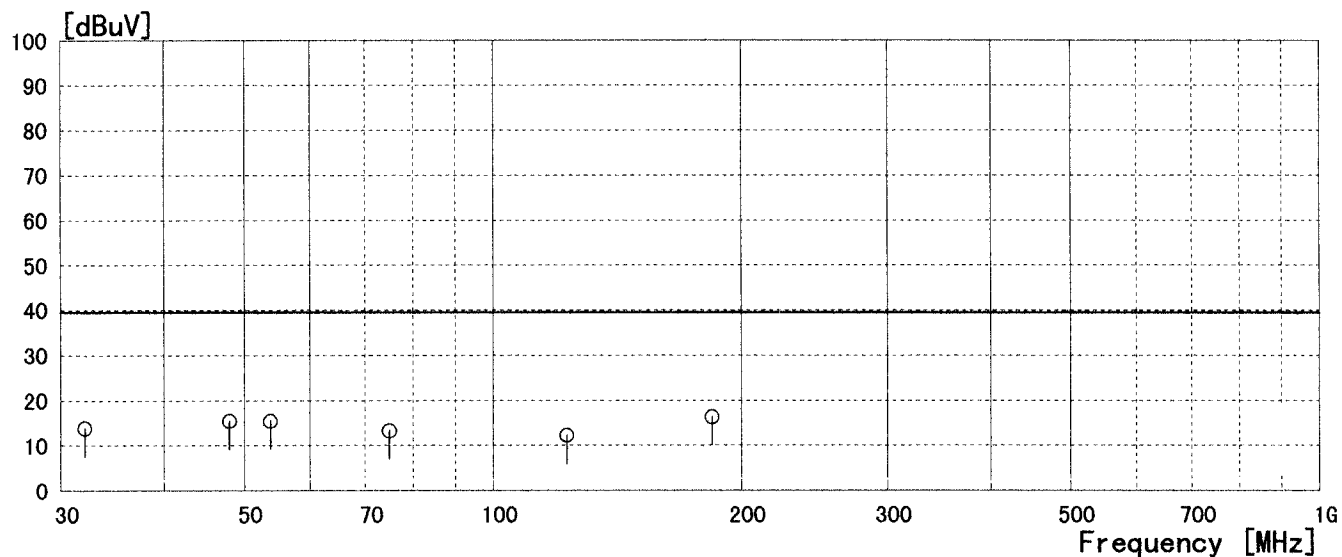


SRURIOUS FROM RF OUTPUT TERMINALA-PEX INTERNATIONAL CO., LTD.
KANTO OFFICE EMC LAB.COMPANY : ORION ELECTRIC CO., LTD.
EQUIPEMENT : DVD/VCR
MODEL NAME : HR-XVC1U
OPERATION MODE: DVD PLAYBACK (3CH OUTPUT)
PORT : RF OUTPUT TERMINAL
POWER : AC120V/60Hz
REMARKS : -REPORT No. : 22CE0026-KT-1
DATE : OCTOBER 30, 2001
REGULATION : FCC PART15 SUBPART B
TEST NO. : 11

TEST ENGINEER: HISAYUKI KIOKA

No.	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN	
		QP	AV		QP	AV	QP	AV	QP	AV
		[dBuV]			[dBuV]		[dBuV]		[dB]	
1	32.110	35.5	----	-21.7	13.8	----	39.5	----	25.7	----
2	48.000	37.0	----	-21.6	15.4	----	39.5	----	24.1	----
3	53.770	37.0	----	-21.6	15.4	----	39.5	----	24.1	----
4	74.900	34.7	----	-21.5	13.2	----	39.5	----	26.3	----
5	122.800	33.6	----	-21.4	12.2	----	39.5	----	27.3	----
6	184.300	37.7	----	-21.4	16.3	----	39.5	----	23.2	----

RESULT=READING+CABLE LOSS+PAD LOSS-AMP. GAIN



SRURIOUS FROM RF OUTPUT TERMINAL

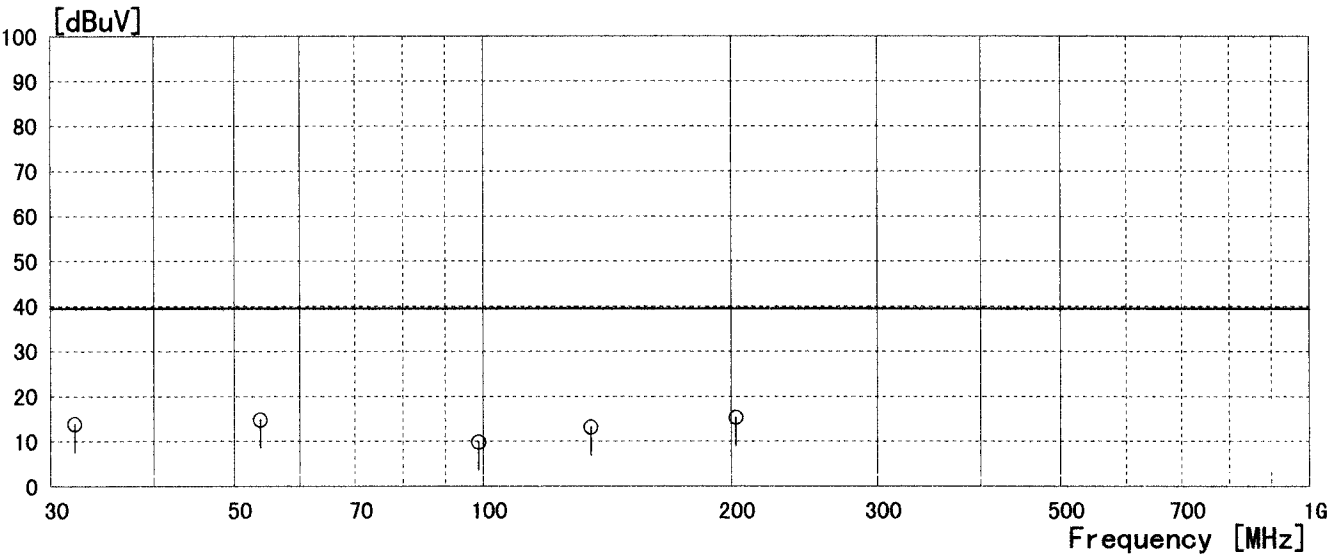
A-PEX INTERNATIONAL CO., LTD.
KANTO OFFICE EMC LAB.

COMPANY : ORION ELECTRIC CO., LTD.
EQUIPEMENT : DVD/VCR
MODEL NAME : HR-XVC1U
OPERATION MODE: DVD PLAYBACK (4CH OUTPUT)
PORT : RF OUTPUT TERMINAL
POWER : AC120V/60Hz
REMARKS : -
:

REPORT No. : 22CE0026-KT-1
DATE : OCTOBER 30, 2001
REGULATION : FCC PART15 SUBPART B
TEST NO. : 12
:
TEST ENGINEER: HISAYUKI KIOKA

No.	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN	
		QP	AV		QP	AV	QP	AV	QP	AV
		[dBuV]			[dBuV]		[dBuV]		[dB]	
1	32.110	35.5	----	-21.7	13.8	----	39.5	----	25.7	----
2	53.770	36.3	----	-21.6	14.7	----	39.5	----	24.8	----
3	98.900	31.2	----	-21.4	9.8	----	39.5	----	29.7	----
4	135.100	34.5	----	-21.4	13.1	----	39.5	----	26.4	----
5	202.700	36.7	----	-21.4	15.3	----	39.5	----	24.2	----

RESULT=READING+CABLE LOSS+PAD LOSS-AMP. GAIN



Antenna transfer switch

A-PEX INTERNATIONAL CO.,LTD.
KANTO OFFICE EMC LAB.

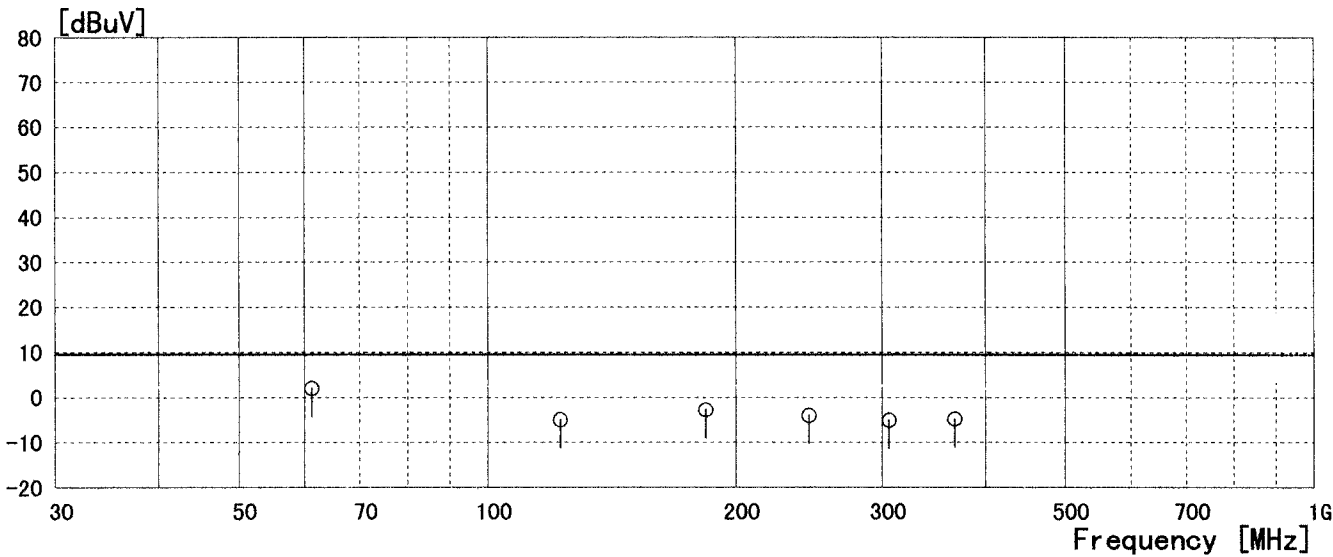
COMPANY : ORION ELECTRIC CO., LTD.
EQUIPEMENT : DVD/VCR
MODEL NAME : HR-XVC1U
OPERATION MODE: AV INPUT (3CH OUTPUT)
PORT : RF INPUT TERMINAL
POWER : AC120V/60Hz
REMARKS : 1Vp-p
:

REPORT No. : 22CE0026-KT-1
DATE : OCTOBER 31, 2001
REGULATION : FCC PART15 SUBPART B
TEST NO. : 1

TEST ENGINEER: HISAYUKI KIOKA

No.	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN	
		QP	AV		QP	AV	QP	AV	QP	AV
		[dBuV]			[dBuV]		[dBuV]		[dB]	
1	61.250	23.5	----	-21.5	2.0	----	9.5	----	7.5	----
2	122.500	16.4	----	-21.4	-5.0	----	9.5	----	14.5	----
3	183.750	18.6	----	-21.4	-2.8	----	9.5	----	12.3	----
4	245.000	17.4	----	-21.4	-4.0	----	9.5	----	13.5	----
5	306.250	16.3	----	-21.4	-5.1	----	9.5	----	14.6	----
6	367.500	16.5	----	-21.4	-4.9	----	9.5	----	14.4	----

RESULT=READING+CABLE LOSS+PAD LOSS-AMP. GAIN



Antenna transfer switch

A-PEX INTERNATIONAL CO., LTD.
KANTO OFFICE EMC LAB.

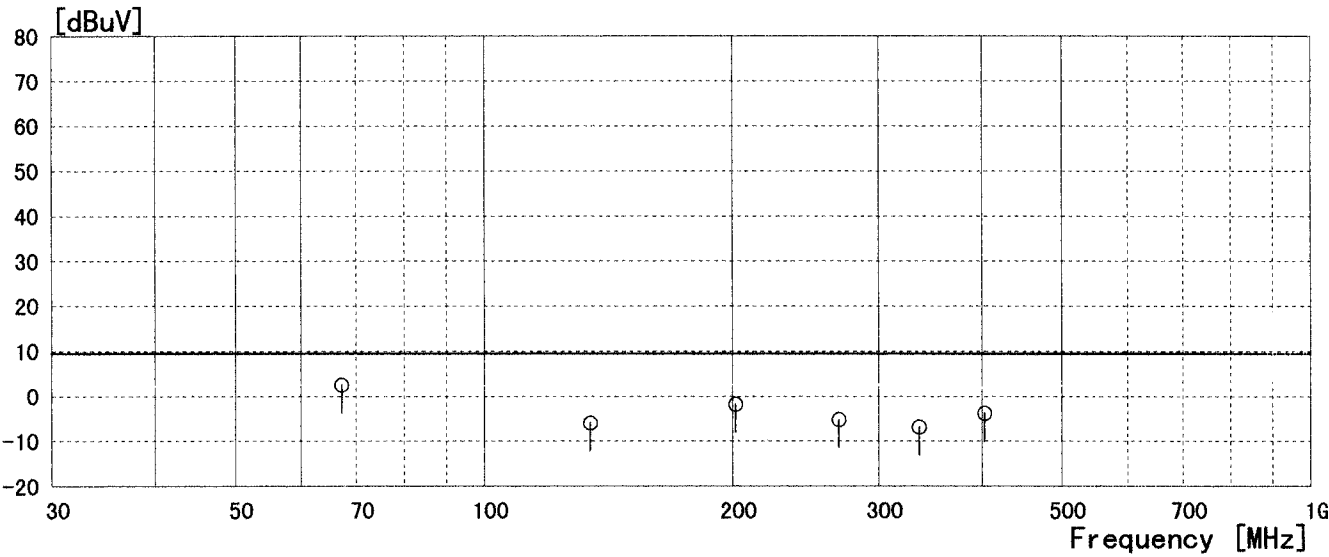
COMPANY : ORION ELECTRIC CO., LTD.
EQUIPEMENT : DVD/VCR
MODEL NAME : HR-XVC1U
OPERATION MODE: AV INPUT (4CH OUTPUT)
PORT : RF INPUT TERMINAL
POWER : AC120V/60Hz
REMARKS : 1Vp-p

REPORT No. : 22CE0026-KT-1
DATE : OCTOBER 31, 2001
REGULATION : FCC PART15 SUBPART B
TEST NO. : 2

TEST ENGINEER: HTSAYUKI KIOKA

No.	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN	
		QP	AV [dBuV]		QP	AV [dBuV]	QP	AV [dBuV]	QP	AV [dB]
1	67.250	24.0	----	-21.5	2.5	----	9.5	----	7.0	----
2	134.500	15.4	----	-21.4	-6.0	----	9.5	----	15.5	----
3	201.750	19.6	----	-21.4	-1.8	----	9.5	----	11.3	----
4	269.000	16.2	----	-21.4	-5.2	----	9.5	----	14.7	----
5	336.250	14.5	----	-21.4	-6.9	----	9.5	----	16.4	----
6	403.500	17.5	----	-21.3	-3.8	----	9.5	----	13.3	----

RESULT=READING+CABLE LOSS+PAD LOSS-AMP. GAIN



Antenna transfer switch

A-PEX INTERNATIONAL CO.,LTD.
KANTO OFFICE EMC LAB.

COMPANY : ORION ELECTRIC CO., LTD.

EQUIPEMENT : DVD/VCR

MODEL NAME : HR-XVC1U

OPERATION MODE: AV INPUT (3CH OUTPUT)

PORT : RF INPUT TERMINAL

POWER : AC120V/60Hz

REMARKS : 5Vp-p

REPORT No. : 22CE0026-KT-1

DATE : OCTOBER 31, 2001

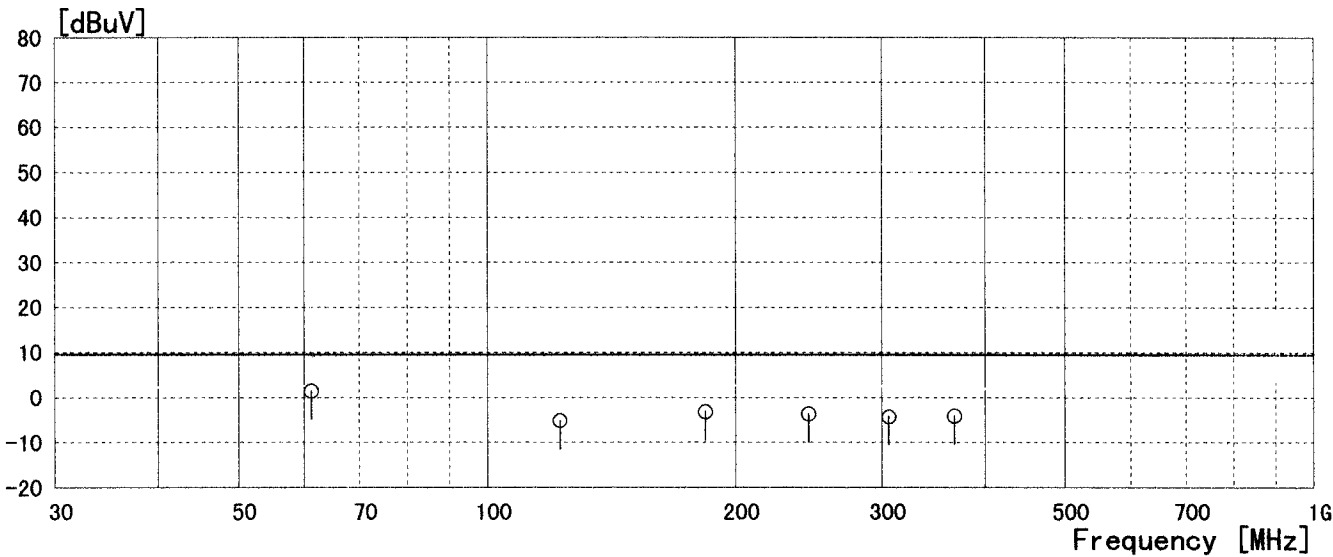
REGULATION : FCC PART15 SUBPART B

TEST NO. : 3

TEST ENGINEER: HISAYUKI KIOKA

No.	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN	
		QP	AV		QP	AV	QP	AV	QP	AV
		[dBuV]			[dBuV]		[dBuV]		[dB]	
1	61.250	22.9	----	-21.5	1.4	----	9.5	----	8.1	----
2	122.500	16.2	----	-21.4	-5.2	----	9.5	----	14.7	----
3	183.750	18.2	----	-21.4	-3.2	----	9.5	----	12.7	----
4	245.000	17.7	----	-21.4	-3.7	----	9.5	----	13.2	----
5	306.250	17.1	----	-21.4	-4.3	----	9.5	----	13.8	----
6	367.500	17.2	----	-21.4	-4.2	----	9.5	----	13.7	----

RESULT=READING+CABLE LOSS+PAD LOSS-AMP. GAIN



Antenna transfer switch

A-PEX INTERNATIONAL CO., LTD.
KANTO OFFICE EMC LAB.

COMPANY

EQUIPEMENT

MODEL NAME

OPERATION MODE

PORT

POWER

REMARKS

: ORION ELECTRIC CO., LTD.

: DVD/VCR

: HR-XVC1U

: AV INPUT (4CH OUTPUT)

: RF INPUT TERMINAL

: AC120V/60Hz

: 5Vp-p

REPORT No.

DATE

REGULATION

TEST NO.

: 22CE0026-KT-1

: OCTOBER 31, 2001

: FCC PART15 SUBPART B

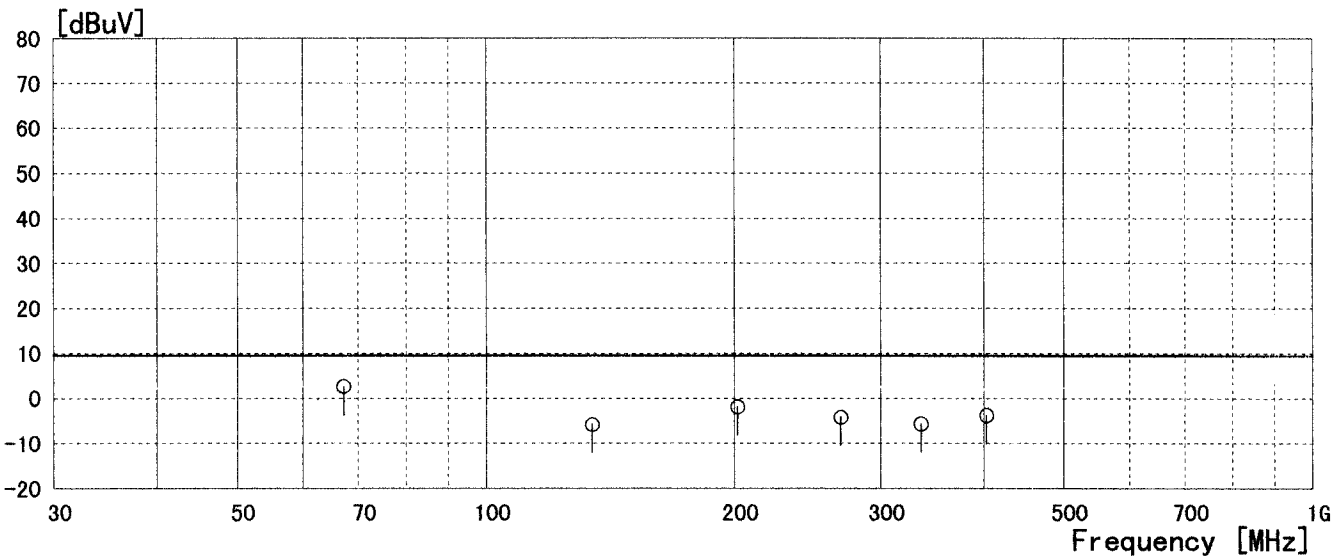
: 4

TEST ENGINEER

: HISAYUKI KIOKA

No.	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN	
		QP	AV		QP	AV	QP	AV	QP	AV
		[dBuV]			[dBuV]		[dBuV]		[dB]	
1	67.250	24.1	----	-21.5	2.6	----	9.5	----	6.9	----
2	134.500	15.5	----	-21.4	-5.9	----	9.5	----	15.4	----
3	201.750	19.5	----	-21.4	-1.9	----	9.5	----	11.4	----
4	269.000	17.2	----	-21.4	-4.2	----	9.5	----	13.7	----
5	336.250	15.7	----	-21.4	-5.7	----	9.5	----	15.2	----
6	403.500	17.5	----	-21.3	-3.8	----	9.5	----	13.3	----

RESULT=READING+CABLE LOSS+PAD LOSS-AMP. GAIN



Antenna transfer switch

A-PEX INTERNATIONAL CO., LTD.
KANTO OFFICE EMC LAB.

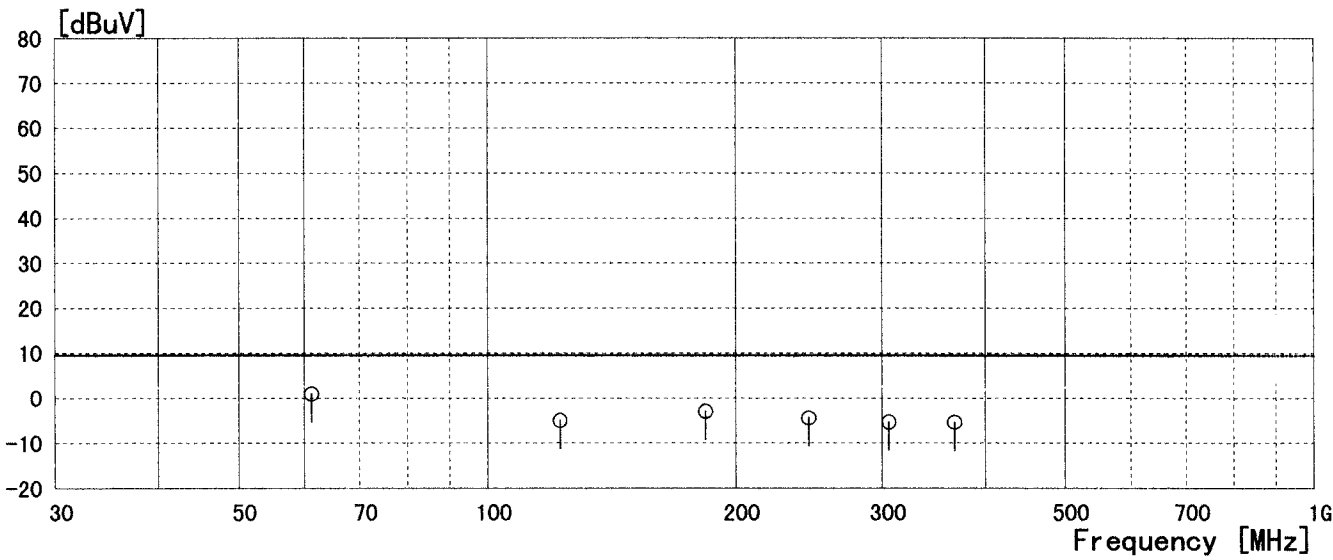
COMPANY : ORION ELECTRIC CO., LTD.
EQUIPEMENT : DVD/VCR
MODEL NAME : HR-XVC1U
OPERATION MODE: VCR PLAYBACK (3CH OUTPUT)
PORT : RF INPUT TERMINAL
POWER : AC120V/60Hz
REMARKS : -

REPORT No. : 22CE0026-KT-1
DATE : OCTOBER 31, 2001
REGULATION : FCC PART15 SUBPART B
TEST NO. : 7

TEST ENGINEER: HISAYUKI KIOKA

No.	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN	
		QP	AV		QP	AV	QP	AV	QP	AV
		[dBuV]			[dBuV]		[dBuV]		[dB]	
1	61.250	22.4	----	-21.5	0.9	----	9.5	----	8.6	----
2	122.500	16.4	----	-21.4	-5.0	----	9.5	----	14.5	----
3	183.750	18.4	----	-21.4	-3.0	----	9.5	----	12.5	----
4	245.000	17.0	----	-21.4	-4.4	----	9.5	----	13.9	----
5	306.250	16.1	----	-21.4	-5.3	----	9.5	----	14.8	----
6	367.500	15.9	----	-21.4	-5.5	----	9.5	----	15.0	----

RESULT=READING+CABLE LOSS+PAD LOSS-AMP. GAIN



Antenna transfer switch

A-PEX INTERNATIONAL CO.,LTD.
KANTO OFFICE EMC LAB.

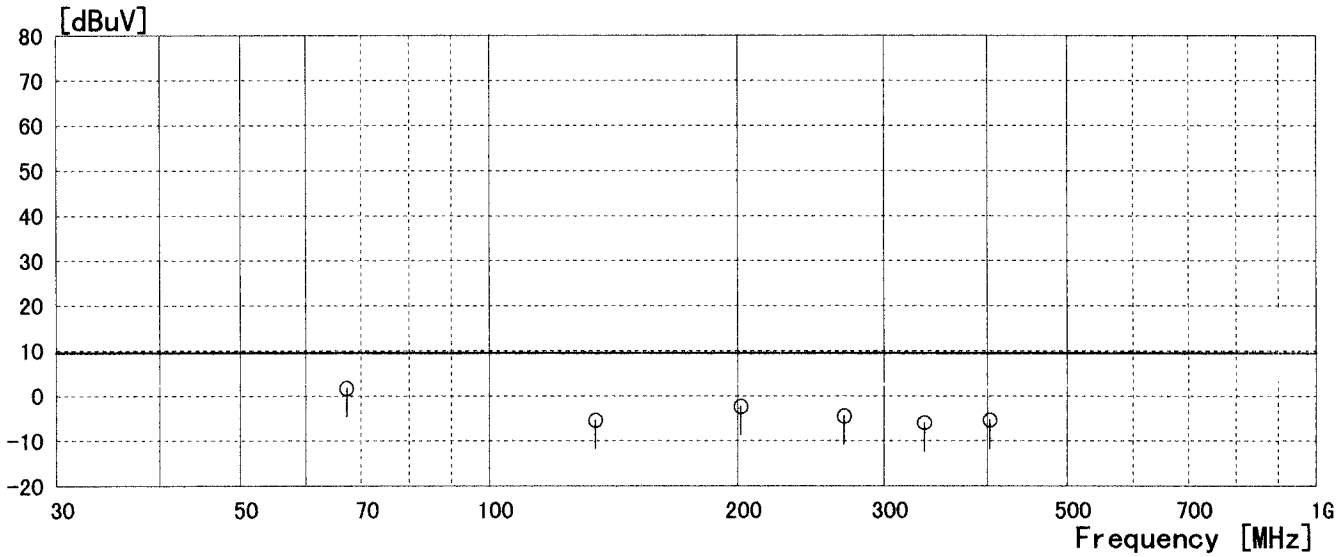
COMPANY : ORION ELECTRIC CO., LTD.
EQUIPEMENT : DVD/VCR
MODEL NAME : HR-XVC1U
OPERATION MODE: VCR PLAYBACK (4CH OUTPUT)
PORT : RF INPUT TERMINAL
POWER : AC120V/60Hz
REMARKS : -

REPORT No. : 22CE0026-KT-1
DATE : OCTOBER 31, 2001
REGULATION : FCC PART15 SUBPART B
TEST NO. : 8

TEST ENGINEER: HITSUYUKI KIOKA

No.	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN	
		QP	AV		QP	AV	QP	AV	QP	AV
		[dBuV]			[dBuV]		[dBuV]		[dB]	
1	67.250	23.1	----	-21.5	1.6	----	9.5	----	7.9	----
2	134.500	15.9	----	-21.4	-5.5	----	9.5	----	15.0	----
3	201.750	19.0	----	-21.4	-2.4	----	9.5	----	11.9	----
4	269.000	16.9	----	-21.4	-4.5	----	9.5	----	14.0	----
5	336.250	15.4	----	-21.4	-6.0	----	9.5	----	15.5	----
6	403.500	15.9	----	-21.3	-5.4	----	9.5	----	14.9	----

RESULT=READING+CABLE LOSS+PAD LOSS-AMP. GAIN



Antenna transfer switch

A-PEX INTERNATIONAL CO., LTD.
KANTO OFFICE EMC LAB.

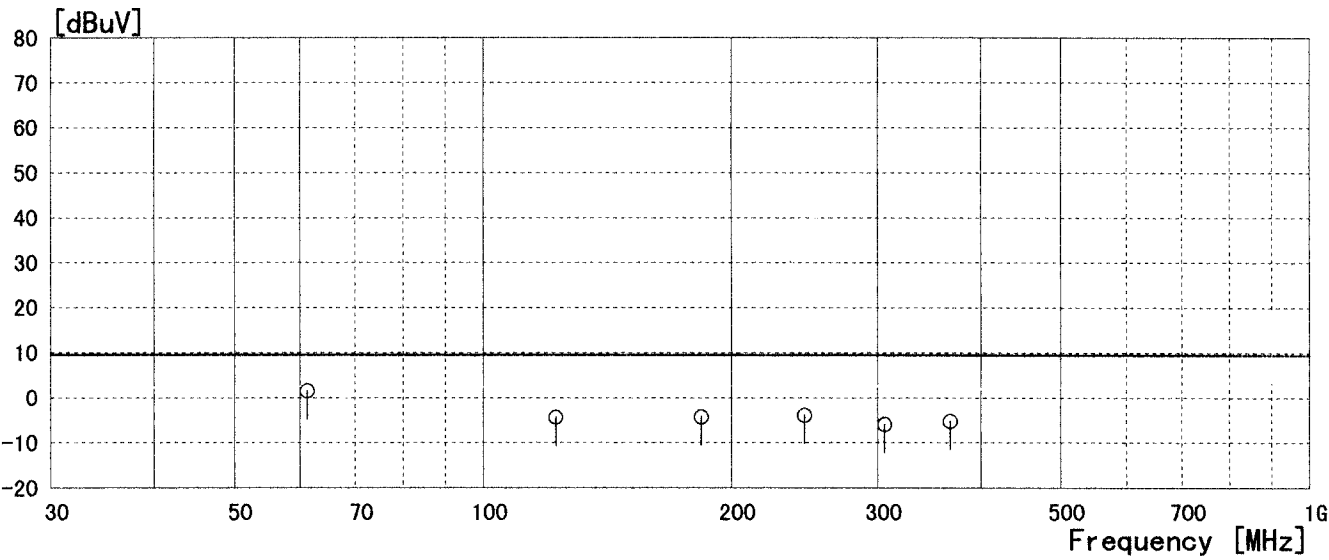
COMPANY : ORION ELECTRIC CO., LTD.
EQUIPEMENT : DVD/VCR
MODEL NAME : HR-XVC1U
OPERATION MODE: DVD PLAYBACK (3CH OUTPUT)
PORT : RF INPUT TERMINAL
POWER : AC120V/60Hz
REMARKS : -

REPORT No. : 22CE0026-KT-1
DATE : OCTOBER 31, 2001
REGULATION : FCC PART15 SUBPART B
TEST NO. : 5

TEST ENGINEER: HISAYUKI KIOKA

No.	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN	
		QP	AV		QP	AV	QP	AV	QP	AV
		[dBuV]			[dBuV]		[dBuV]		[dB]	
1	61.250	23.0	----	-21.5	1.5	----	9.5	----	8.0	----
2	122.500	17.0	----	-21.4	-4.4	----	9.5	----	13.9	----
3	183.750	17.1	----	-21.4	-4.3	----	9.5	----	13.8	----
4	245.000	17.5	----	-21.4	-3.9	----	9.5	----	13.4	----
5	306.250	15.5	----	-21.4	-5.9	----	9.5	----	15.4	----
6	367.500	16.1	----	-21.4	-5.3	----	9.5	----	14.8	----

RESULT=READING+CABLE LOSS+PAD LOSS-AMP. GAIN



Antenna transfer switch

A-PEX INTERNATIONAL CO.,LTD.
KANTO OFFICE EMC LAB.

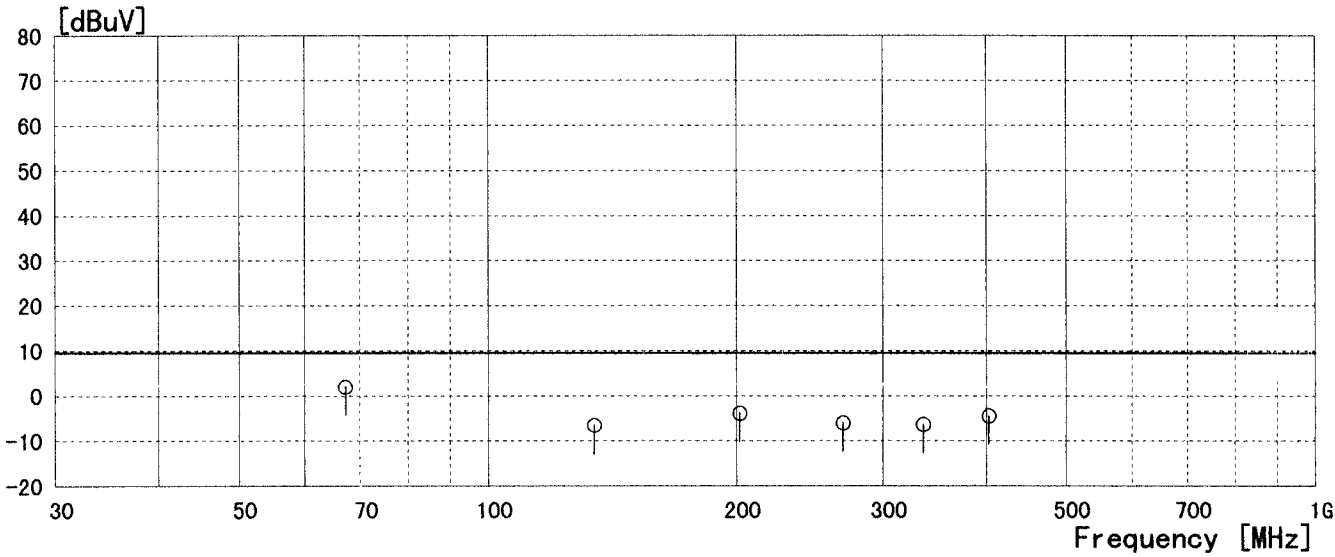
COMPANY : ORION ELECTRIC CO., LTD.
EQUIPEMENT : DVD/VCR
MODEL NAME : HR-XVC1U
OPERATION MODE: DVD PLAYBACK (4CH OUTPUT)
PORT : RF INPUT TERMINAL
POWER : AC120V/60Hz
REMARKS : -

REPORT No. : 220E0026-KT-1
DATE : OCTOBER 31, 2001
REGULATION : FCC PART15 SUBPART B
TEST NO. : 6

TEST ENGINEER: HISAYUKI KIOKA

No.	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN	
		QP	AV		QP	AV	QP	AV	QP	AV
		[dBuV]			[dBuV]		[dBuV]		[dB]	
1	67.250	23.4	----	-21.5	1.9	----	9.5	----	7.6	----
2	134.500	14.8	----	-21.4	-6.6	----	9.5	----	16.1	----
3	201.750	17.5	----	-21.4	-3.9	----	9.5	----	13.4	----
4	269.000	15.4	----	-21.4	-6.0	----	9.5	----	15.5	----
5	336.250	15.0	----	-21.4	-6.4	----	9.5	----	15.9	----
6	403.500	16.8	----	-21.3	-4.5	----	9.5	----	14.0	----

RESULT=READING+CABLE LOSS+PAD LOSS-AMP. GAIN



Picture sensitivity test

A-PEX INTERNATIONAL CO., LTD.

Kanto office EMC Laboratory

Company : ORION ELECTRIC CO.,LTD.

Report Number : 22CE0026-KT-1

Equipment : DVD/VCR

Regulation : FCC Part 15 Subpart B

Model number : HR-XVC1U

Date : October 30, 2001

Power : AC 120 V / 60 Hz

Description : Receive mode

Engineer

: Hisayuki Kioka

Ch.	Frequency	Sensitivity		Ch.	Frequency	Sensitivity	
[VHF]	[MHz]	[dBuV]	[uV]	[UHF]	[MHz]	[dBuV]	[uV]
2	55.25	20.0	10.0	14	471.25	21.2	11.5
3	61.25	18.3	8.2	20	507.25	21.5	11.9
4	67.25	19.0	8.9	26	543.25	21.7	12.2
5	77.25	19.9	9.9	32	579.25	21.9	12.4
6	83.25	20.4	10.5	38	615.25	22.2	12.9
7	175.25	18.0	7.9	44	651.25	22.0	12.6
8	181.25	17.7	7.7	50	687.25	22.1	12.7
9	187.25	17.7	7.7	56	723.25	22.5	13.3
10	193.25	17.6	7.6	62	759.25	22.2	12.9
11	199.25	17.5	7.5	69	801.25	22.8	13.8
12	205.25	17.4	7.4	-	-	-	-
13	211.25	17.4	7.4	-	-	-	-
Average VHF			8.4	Average UHF			12.6
Average UHF/VHF : $20 \log \text{UHF[uV]}/\text{VHF[uV]} = 3.5 \text{ dB}$							

[Limit : 8.0 dB]

Noise figure test

A-PEX INTERNATIONAL CO., LTD.
Kanto office EMC Laboratory

Company : ORION ELECTRIC CO.,LTD.

Equipment : DVD/VCR

Model number : HR-XVC1U

Power : AC 120 V / 60 Hz

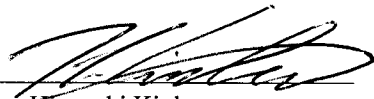
Description : Receive mode

Report Number : 22CE0026-KT-1

Regulation : FCC Part 15 Subpart B

Date : October 31,2001

Engineer


: Hisayuki Kioka

Ch.	Frequency [MHz]	Meter reading [dB]	Correction factor [dB]	Noise figure [dB]	Limits [dB]	Margin [dB]
TV VHF Fundamental						
2	55.25	5.0	0.2	4.8	14.0	9.2
3	61.25	4.0	0.2	3.8	14.0	10.2
4	67.25	5.0	0.2	4.8	14.0	9.2
5	77.25	5.5	0.2	5.3	14.0	8.7
6	83.25	6.0	0.2	5.8	14.0	8.2
7	175.25	3.5	0.2	3.3	14.0	10.7
8	181.25	3.5	0.2	3.3	14.0	10.7
9	187.25	3.5	0.2	3.3	14.0	10.7
10	193.25	3.0	0.2	2.8	14.0	11.2
11	199.25	3.0	0.2	2.8	14.0	11.2
12	205.25	3.0	0.2	2.8	14.0	11.2
13	211.25	3.0	0.2	2.8	14.0	11.2
TV UHF Fundamental						
14	471.25	7.0	0.3	6.7	14.0	7.3
20	507.25	7.5	0.3	7.2	14.0	6.8
26	543.25	7.5	0.3	7.2	14.0	6.8
32	579.25	8.0	0.3	7.7	14.0	6.3
38	615.25	8.0	0.3	7.7	14.0	6.3
44	651.25	8.0	0.3	7.7	14.0	6.3
50	687.25	8.0	0.3	7.7	14.0	6.3
56	723.25	8.0	0.4	7.6	14.0	6.4
62	759.25	8.0	0.4	7.6	14.0	6.4
69	801.25	8.0	0.4	7.6	14.0	6.4
Mid-band						
14	121.25	7.0	0.2	6.8	14.0	7.2
16	133.25	5.0	0.2	4.8	14.0	9.2
18	145.25	4.5	0.2	4.3	14.0	9.7
20	157.25	4.0	0.2	3.8	14.0	10.2
22	169.25	3.5	0.2	3.3	14.0	10.7
Super-band						
23	217.25	3.0	0.2	2.8	14.0	11.2
26	235.25	3.0	0.2	2.8	14.0	11.2
29	253.25	3.5	0.2	3.3	14.0	10.7
32	271.25	3.5	0.2	3.3	14.0	10.7
36	295.25	3.5	0.2	3.3	14.0	10.7