

Appendix 2 : Data of EMI tests

This section contains the following data.

Page 30 to Page 41 :	Conducted interference
Page 42 to Page 62 :	Radiated emission
Page 63 to Page 64:	Antenna terminal voltage
Page 65 to Page 82 :	RF output level / spurious emission
Page 83 to Page 90 :	Antenna transfer switch
Page 91 :	Picture sensitivity
Page 92 :	Noise figure

DATA OF CONDUCTION

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

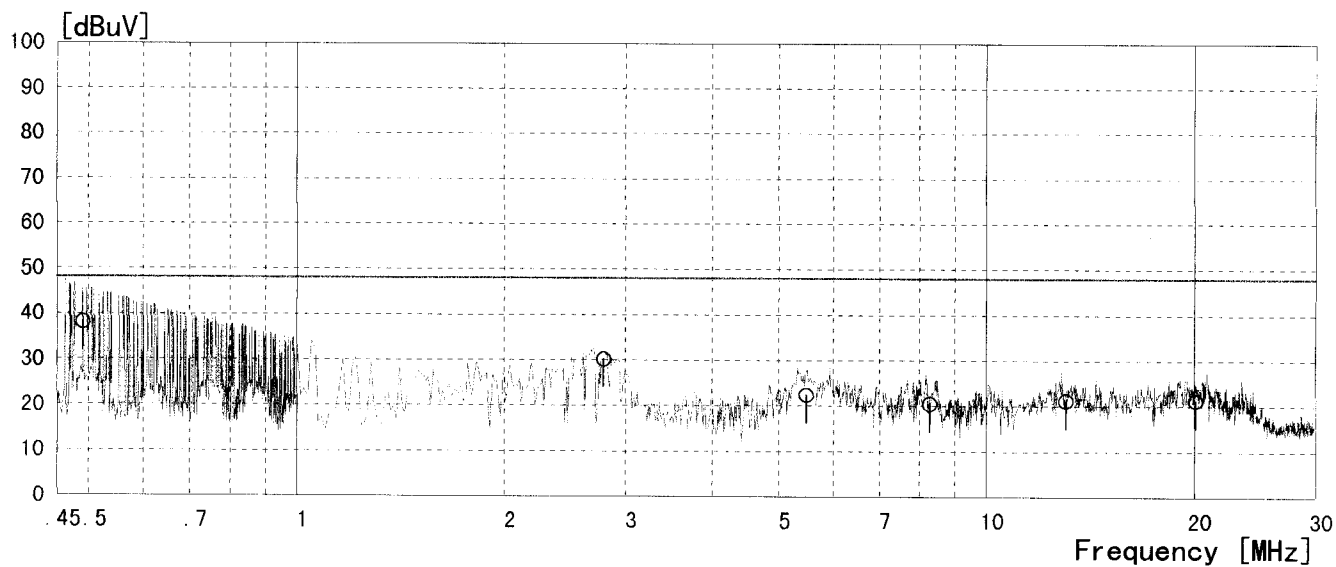
COMPANY : ORION ELECTRIC CO., LTD.
EQUIPEMENT : DVD/VCR
MODEL NAME : HR-XVC1U
OPERATION MODE : TV Reception
POWER : AC120V/60Hz
LINE : N
REMARKS : 0dBmV INPUT

REPORT No. : 221E0009-KT-1
DATE : APRIL 16, 2002
REGULATION : FCC PART15 SUBPART B
TEST NO. : 1

TEST ENGINEER: YOSHIYUKI ARAKAWA

No.	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN	
		QP	AV		QP	AV	QP	AV	QP	AV
		[dBuV]			[dBuV]		[dBuV]		[dB]	
1	0.491	37.7	----	0.5	38.2	----	48.0	----	9.8	----
2	2.789	29.7	----	0.5	30.2	----	48.0	----	17.8	----
3	5.482	21.8	----	0.6	22.4	----	48.0	----	25.6	----
4	8.275	19.8	----	0.7	20.5	----	48.0	----	27.5	----
5	13.030	20.4	----	0.8	21.2	----	48.0	----	26.8	----
6	20.091	20.4	----	0.9	21.3	----	48.0	----	26.7	----

RESULT=READING+CABLE LOSS+CLAMP FACTOR



DATA OF CONDUCTION

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

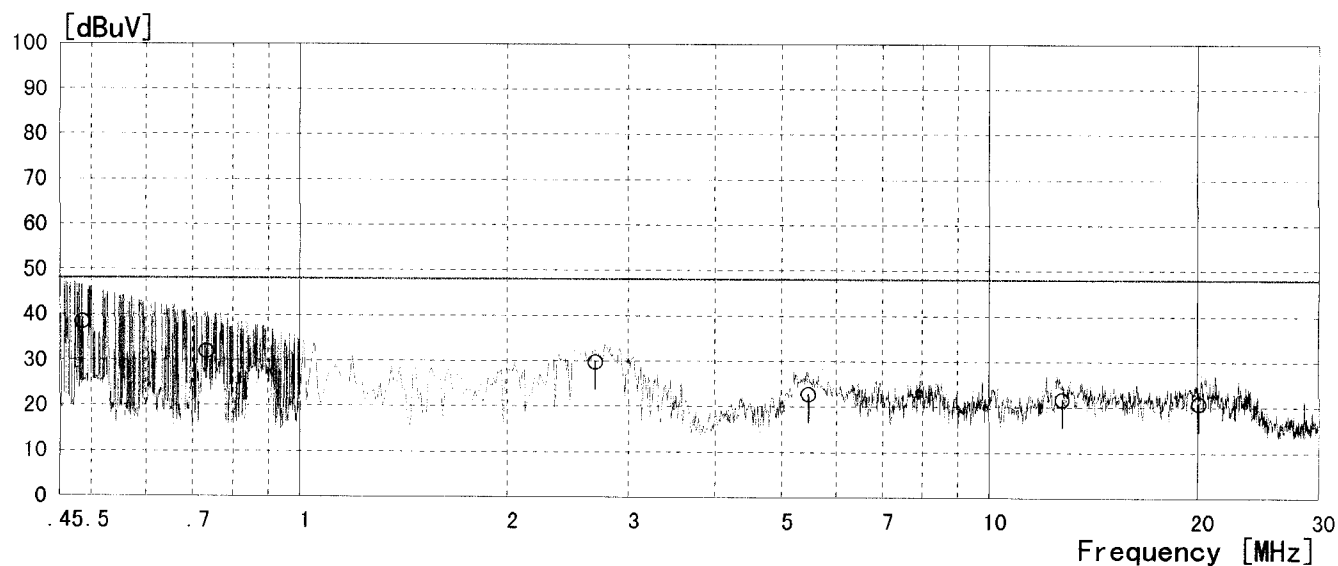
COMPANY : ORION ELECTRIC CO., LTD.
EQUIPEMENT : DVD/VCR
MODEL NAME : HR-XVC1U
OPERATION MODE : TV Reception
POWER : AC120V/60Hz
LINE : L
REMARKS : 0dBmV INPUT

REPORT No. : 22IE0009-KT-1
DATE : APRIL 16, 2002
REGULATION : FCC PART15 SUBPART B
TEST NO. : 2

TEST ENGINEER: YOSHIYUKI ARAKAWA

No.	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN	
		QP	AV		QP	AV	QP	AV	QP	AV
		[dBuV]			[dBuV]		[dBuV]		[dB]	
1	0.485	38.0	----	0.5	38.5	----	48.0	----	9.5	----
2	0.733	31.6	----	0.4	32.0	----	48.0	----	16.0	----
3	2.687	29.3	----	0.5	29.8	----	48.0	----	18.2	----
4	5.472	22.1	----	0.6	22.7	----	48.0	----	25.3	----
5	12.750	20.9	----	0.8	21.7	----	48.0	----	26.3	----
6	20.089	19.9	----	0.9	20.8	----	48.0	----	27.2	----

RESULT=READING+CABLE LOSS+CLAMP FACTOR



DATA OF CONDUCTION

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

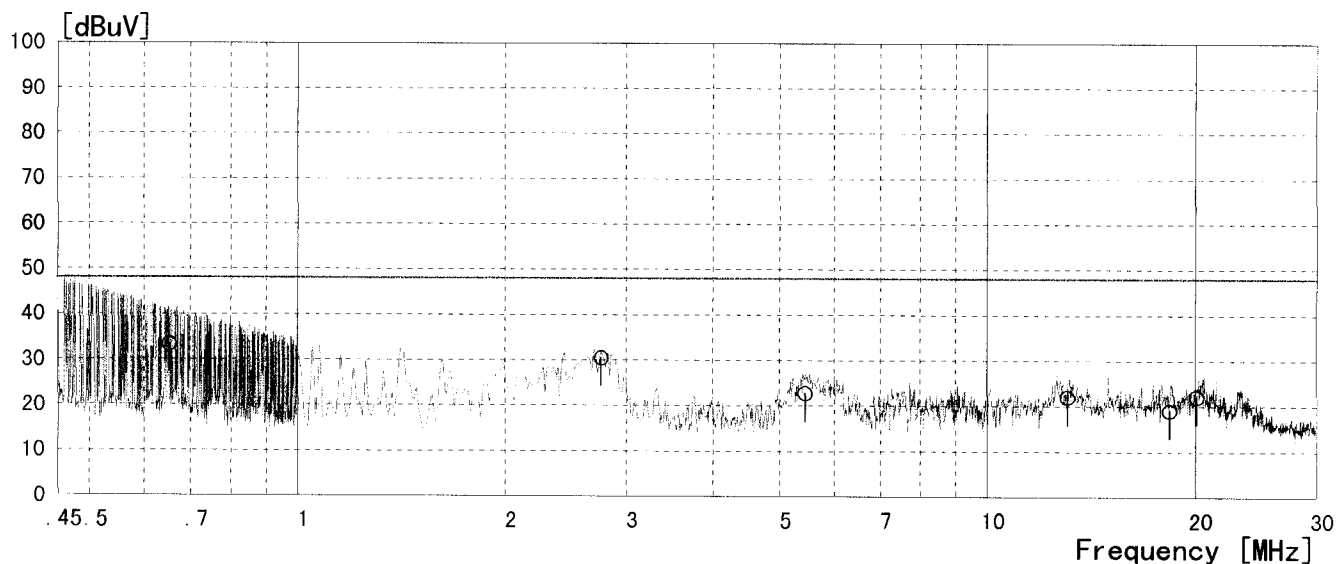
COMPANY : ORION ELECTRIC CO., LTD.
EQUIPEMENT : DVD/VCR
MODEL NAME : HR-XVC1U
OPERATION MODE : TV Reception
POWER : AC120V/60Hz
LINE : N
REMARKS : 25dBmV INPUT

REPORT No. : 22IE0009-KT-1
DATE : APRIL 16, 2002
REGULATION : FCC PART15 SUBPART B
TEST NO. : 3

Y. Ando
TEST ENGINEER: YOSHIYUKI ARAKAWA

No.	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN	
		QP	AV		QP	AV	QP	AV	QP	AV
		[dBuV]			[dBuV]		[dBuV]		[dB]	
1	0.652	33.0	----	0.4	33.4	----	48.0	----	14.6	----
2	2.760	30.0	----	0.5	30.5	----	48.0	----	17.5	----
3	5.446	22.1	----	0.6	22.7	----	48.0	----	25.3	----
4	13.063	21.2	----	0.8	22.0	----	48.0	----	26.0	----
5	18.354	18.2	----	0.8	19.0	----	48.0	----	29.0	----
6	20.090	21.2	----	0.9	22.1	----	48.0	----	25.9	----

RESULT=READING+CABLE LOSS+CLAMP FACTOR



DATA OF CONDUCTION

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

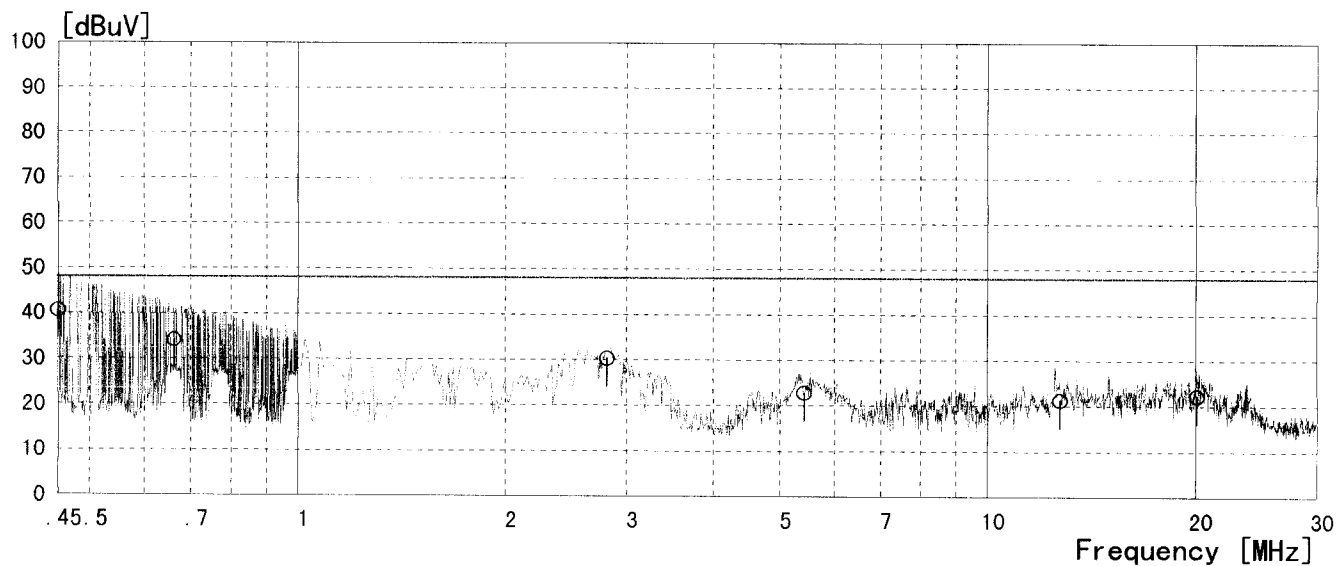
COMPANY : ORION ELECTRIC CO., LTD.
EQUIPEMENT : DVD/VCR
MODEL NAME : HR-XVC1U
OPERATION MODE : TV Reception
POWER : AC120V/60Hz
LINE : L
REMARKS : 25dBmV INPUT

REPORT No. : 22IE0009-KT-1
DATE : APRIL 16, 2002
REGULATION : FCC PART15 SUBPART B
TEST NO. : 4

Y. Arakawa
TEST ENGINEER: YOSHIYUKI ARAKAWA

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	0.663	33.7	----	0.4	34.1	----	48.0	----	13.9	----
3	2.810	29.8	----	0.5	30.3	----	48.0	----	17.7	----
4	5.424	22.2	----	0.6	22.8	----	48.0	----	25.2	----
5	12.734	20.5	----	0.8	21.3	----	48.0	----	26.7	----
6	20.093	21.4	----	0.9	22.3	----	48.0	----	25.7	----

RESULT=READING+CABLE LOSS+CLAMP FACTOR



DATA OF CONDUCTION

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

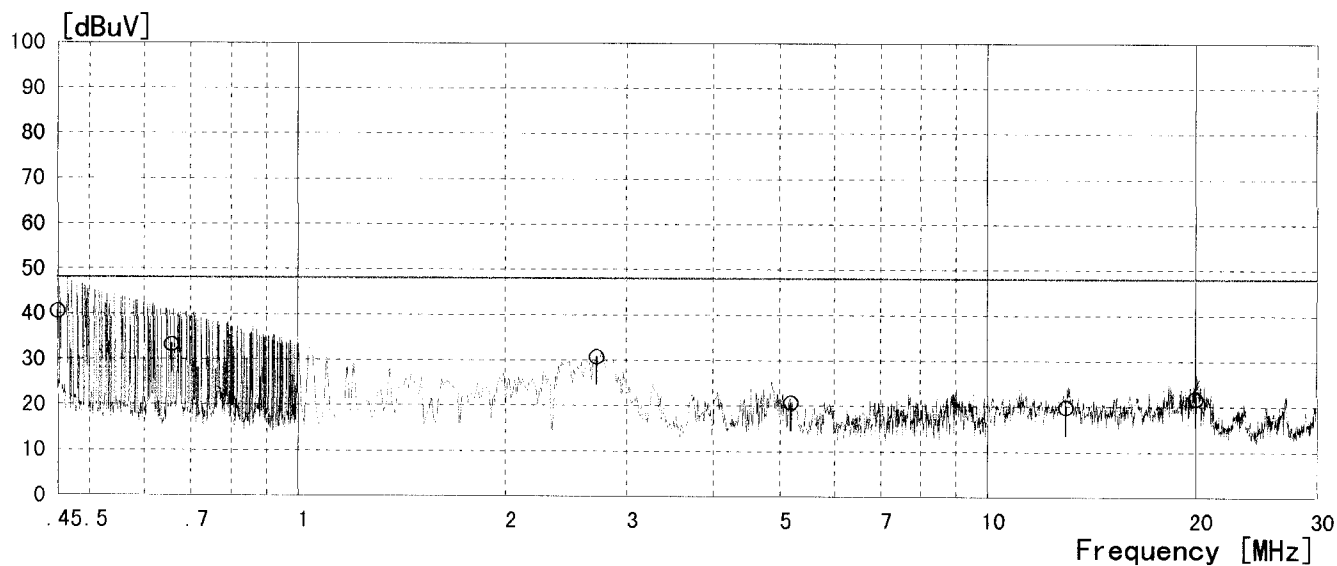
COMPANY : ORION ELECTRIC CO., LTD.
EQUIPEMENT : DVD/VCR
MODEL NAME : HR-XVC1U
OPERATION MODE : LINE IN + REC
POWER : AC120V/60Hz
LINE : N
REMARKS : 1Vp-p INPUT

REPORT No. : 221E0009-KT-1
DATE : APRIL 16, 2002
REGULATION : FCC PART15 SUBPART B
TEST NO. : 5

Y. Arakawa
TEST ENGINEER: YOSHIYUKI ARAKAWA

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	0.657	32.9	----	0.4	33.3	----	48.0	----	14.7	----
3	2.715	30.3	----	0.5	30.8	----	48.0	----	17.2	----
4	5.190	20.1	----	0.6	20.7	----	48.0	----	27.3	----
5	12.975	19.0	----	0.8	19.8	----	48.0	----	28.2	----
6	20.000	20.9	----	0.9	21.8	----	48.0	----	26.2	----

RESULT=READING+CABLE LOSS+CLAMP FACTOR



DATA OF CONDUCTION

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

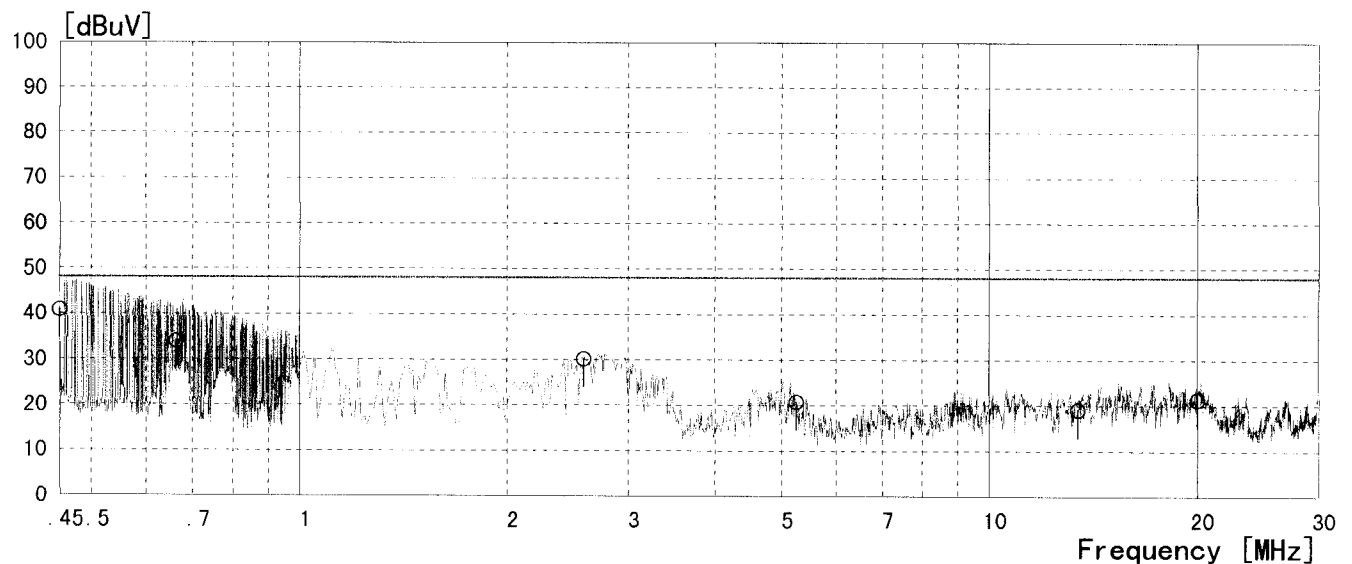
COMPANY : ORION ELECTRIC CO., LTD.
EQUIPEMENT : DVD/VCR
MODEL NAME : HR-XVC1U
OPERATION MODE : LINE IN + REC
POWER : AC120V/60Hz
LINE : L
REMARKS : 1Vp-p INPUT

REPORT No. : 22IE0009-KT-1
DATE : APRIL 16, 2002
REGULATION : FCC PART15 SUBPART B
TEST NO. : 6

TEST ENGINEER: YOSHIYUKI ARAKAWA

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	40.3	----	0.5	40.8	----	48.0	----	7.2	----
2	0.663	33.6	----	0.4	34.0	----	48.0	----	14.0	----
3	2.586	29.7	----	0.5	30.2	----	48.0	----	17.8	----
4	5.254	20.2	----	0.6	20.8	----	48.0	----	27.2	----
5	13.432	18.3	----	0.8	19.1	----	48.0	----	28.9	----
6	20.001	20.5	----	0.9	21.4	----	48.0	----	26.6	----

RESULT=READING+CABLE LOSS+CLAMP FACTOR



DATA OF CONDUCTION

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

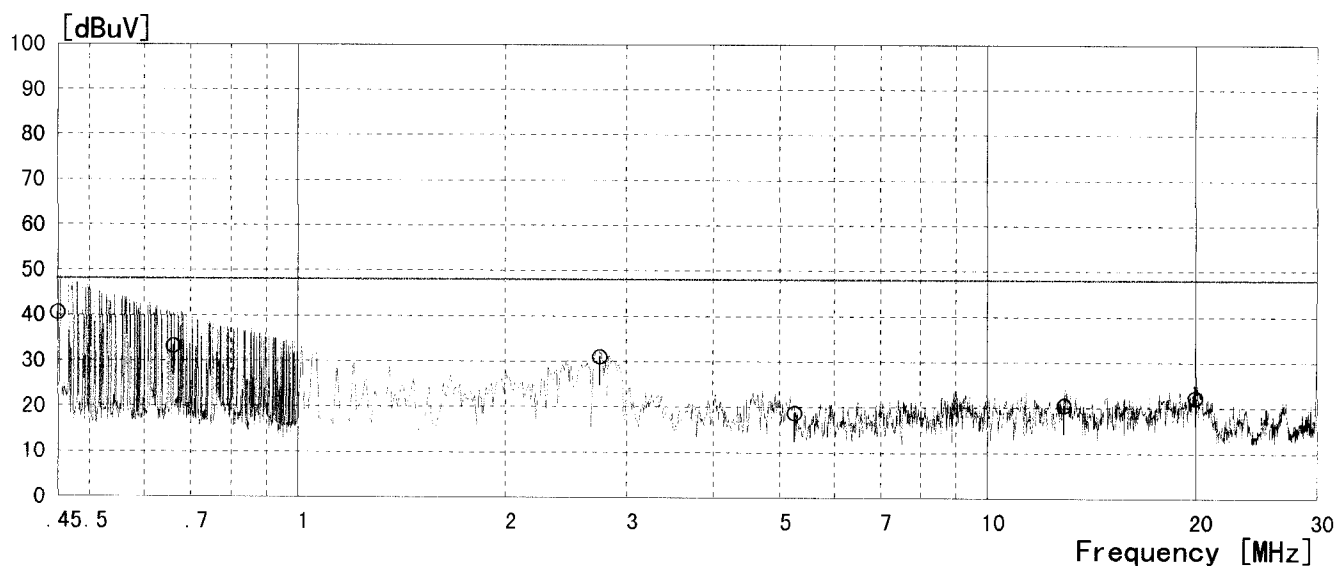
COMPANY : ORION ELECTRIC CO., LTD.
EQUIPEMENT : DVD/VCR
MODEL NAME : HR-XVC1U
OPERATION MODE : LINE IN + REC
POWER : AC120V/60Hz
LINE : N
REMARKS : 5Vp-p INPUT

REPORT No. : 221E0009-KT-1
DATE : APRIL 16, 2002
REGULATION : FCC PART15 SUBPART B
TEST NO. : 7

TEST ENGINEER: YOSHIYUKI ARAKAWA

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	0.661	32.8	----	0.4	33.2	----	48.0	----	14.8	----
3	2.745	30.5	----	0.5	31.0	----	48.0	----	17.0	----
4	5.254	18.1	----	0.6	18.7	----	48.0	----	29.3	----
5	12.909	19.7	----	0.8	20.5	----	48.0	----	27.5	----
6	20.000	21.4	----	0.9	22.3	----	48.0	----	25.7	----

RESULT=READING+CABLE LOSS+CLAMP FACTOR



DATA OF CONDUCTION

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

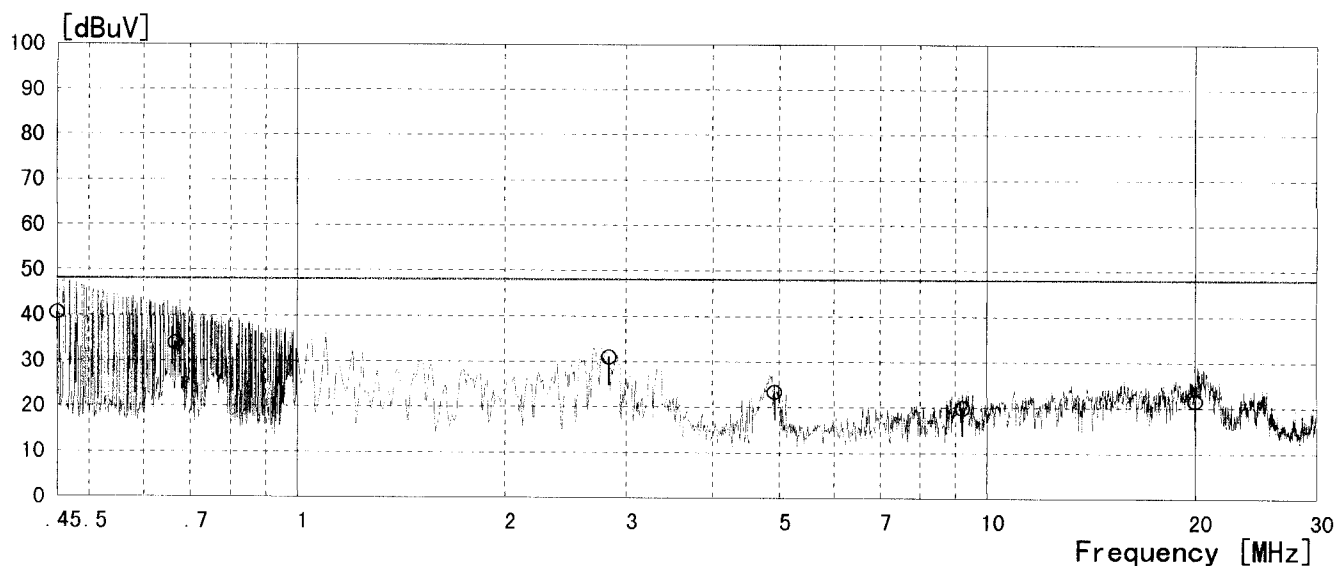
COMPANY : ORION ELECTRIC CO., LTD.
EQUIPEMENT : DVD/VCR
MODEL NAME : HR-XVC1U
OPERATION MODE : LINE IN + REC
POWER : AC120V/60Hz
LINE : L
REMARKS : 5Vp-p INPUT

REPORT No. : 22IE0009-KT-1
DATE : APRIL 16, 2002
REGULATION : FCC PART15 SUBPART B
TEST NO. : 8

Y. Arakawa
TEST ENGINEER: YOSHIYUKI ARAKAWA

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	0.668	33.5	----	0.4	33.9	----	48.0	----	14.1	----
3	2.833	30.5	----	0.5	31.0	----	48.0	----	17.0	----
4	4.931	22.8	----	0.6	23.4	----	48.0	----	24.6	----
5	9.216	19.2	----	0.7	19.9	----	48.0	----	28.1	----
6	20.000	20.7	----	0.9	21.6	----	48.0	----	26.4	----

RESULT=READING+CABLE LOSS+CLAMP FACTOR



DATA OF CONDUCTION

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

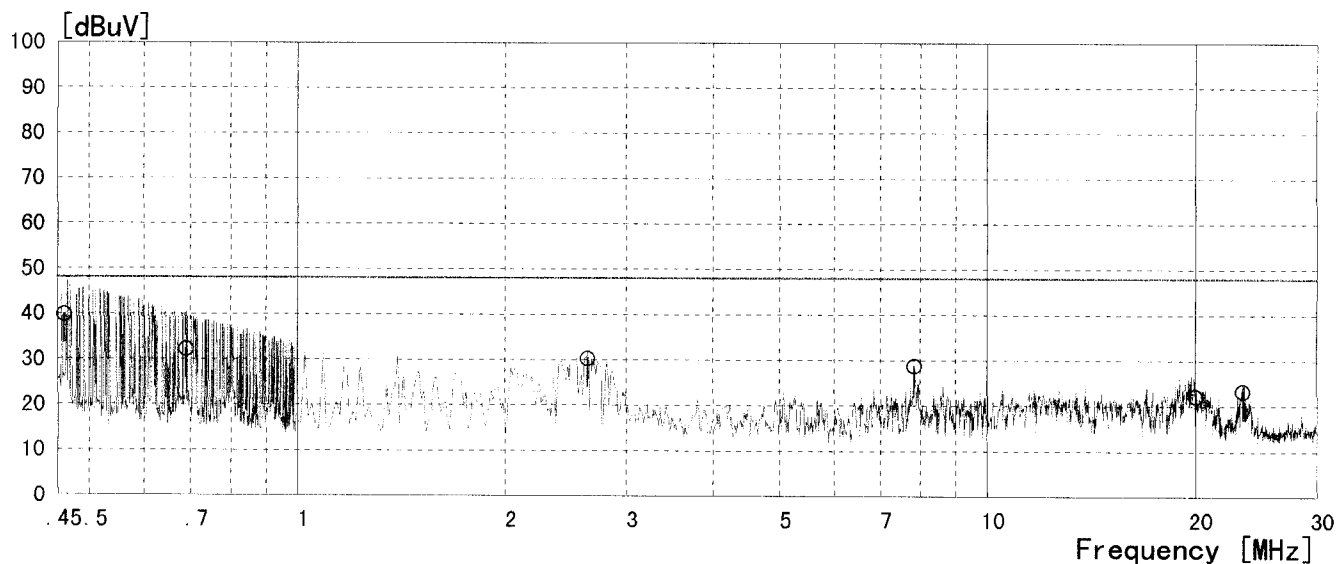
COMPANY : ORION ELECTRIC CO., LTD.
EQUIPEMENT : DVD/VCR
MODEL NAME : HR-XVC1U
OPERATION MODE : VCR PLAYBACK
POWER : AC120V/60Hz
LINE : N
REMARKS : -

REPORT No. : 22IE0009-KT-1
DATE : APRIL 16, 2002
REGULATION : FCC PART15 SUBPART B
TEST NO. : 9

TEST ENGINEER: YOSHIYUKI ARAKAWA

No.	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN	
		QP	AV		QP	AV	QP	AV	QP	AV
		[dBuV]			[dBuV]		[dBuV]		[dB]	
1	0.460	39.3	----	0.5	39.8	----	48.0	----	8.2	----
2	0.690	31.8	----	0.4	32.2	----	48.0	----	15.8	----
3	2.635	29.8	----	0.5	30.3	----	48.0	----	17.7	----
4	7.850	28.1	----	0.7	28.8	----	48.0	----	19.2	----
5	20.000	21.3	----	0.9	22.2	----	48.0	----	25.8	----
6	23.441	22.3	----	0.9	23.2	----	48.0	----	24.8	----

RESULT=READING+CABLE LOSS+CLAMP FACTOR



DATA OF CONDUCTION

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

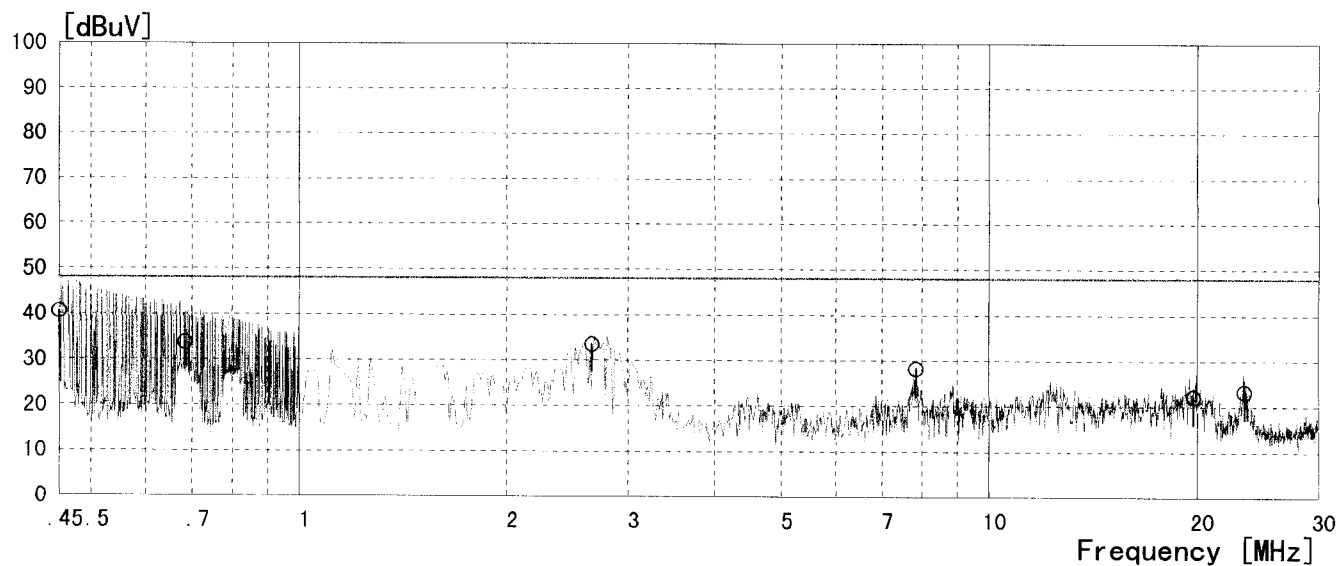
COMPANY : ORION ELECTRIC CO., LTD.
EQUIPEMENT : DVD/VCR
MODEL NAME : HR-XVC1U
OPERATION MODE : VCR PLAYBACK
POWER : AC120V/60Hz
LINE : L
REMARKS : -

REPORT No. : 221E0009-KT-1
DATE : APRIL 16, 2002
REGULATION : FCC PART15 SUBPART B
TEST NO. : 10

Y. Arakawa
TEST ENGINEER: YOSHIYUKI ARAKAWA

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	0.684	33.4	----	0.4	33.8	----	48.0	----	14.2	----
3	2.661	33.1	----	0.5	33.6	----	48.0	----	14.4	----
4	7.850	27.5	----	0.7	28.2	----	48.0	----	19.8	----
5	19.773	21.3	----	0.9	22.2	----	48.0	----	25.8	----
6	23.441	22.3	----	0.9	23.2	----	48.0	----	24.8	----

RESULT=READING+CABLE LOSS+CLAMP FACTOR



DATA OF CONDUCTION

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

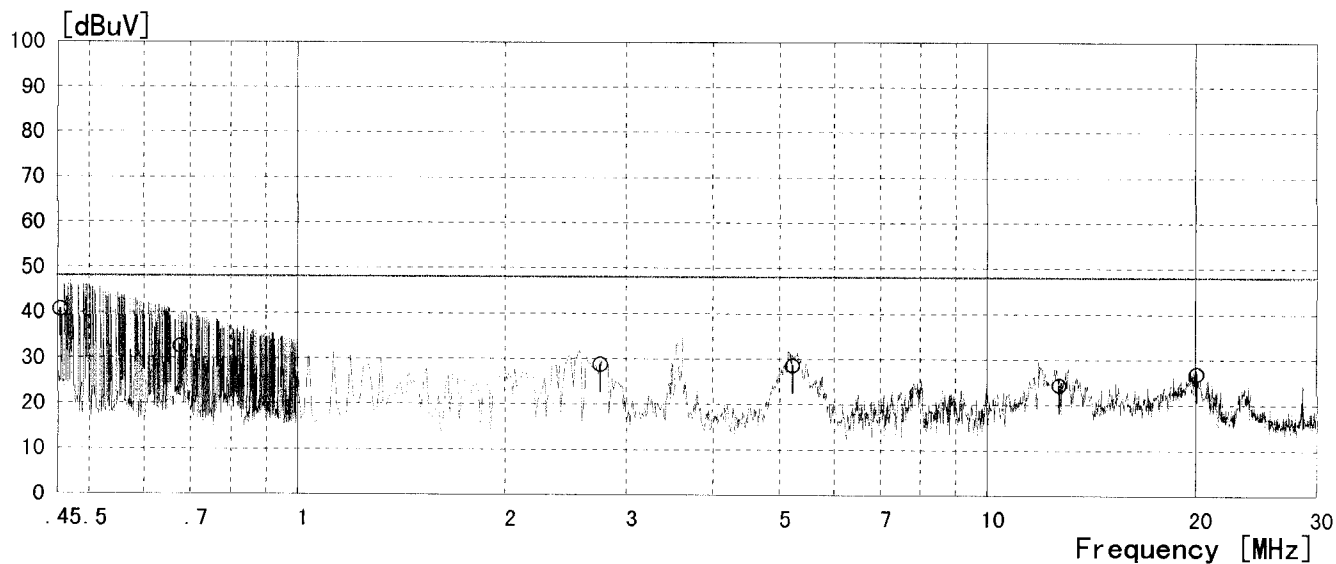
COMPANY : ORION ELECTRIC CO., LTD.
EQUIPEMENT : DVD/VCR
MODEL NAME : HR-XVC1U
OPERATION MODE : DVD PLAY
POWER : AC120V/60Hz
LINE : N
REMARKS : -

REPORT No. : 22IE0009-KT-1
DATE : APRIL 16, 2002
REGULATION : FCC PART15 SUBPART B
TEST NO. : 11

TEST ENGINEER: YOSHITUKI ARAKAWA

No.	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN	
		QP	AV		QP	AV	QP	AV	QP	AV
		[dBuV]			[dBuV]		[dBuV]		[dB]	
1	0.454	40.2	----	0.5	40.7	----	48.0	----	7.3	----
2	0.678	32.2	----	0.4	32.6	----	48.0	----	15.4	----
3	2.751	28.3	----	0.5	28.8	----	48.0	----	19.2	----
4	5.228	28.0	----	0.6	28.6	----	48.0	----	19.4	----
5	12.716	23.6	----	0.8	24.4	----	48.0	----	23.6	----
6	20.091	26.0	----	0.9	26.9	----	48.0	----	21.1	----

RESULT=READING+CABLE LOSS+CLAMP FACTOR



DATA OF CONDUCTION

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

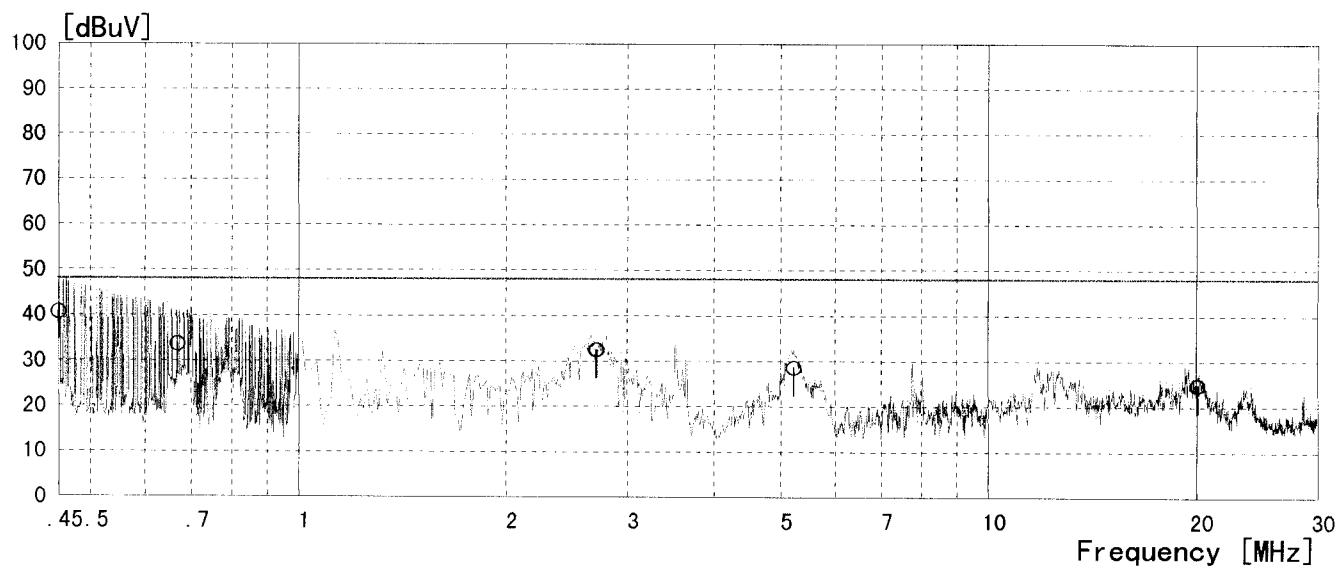
COMPANY : ORION ELECTRIC CO., LTD.
EQUIPEMENT : DVD/VCR
MODEL NAME : HR-XVC1U
OPERATION MODE : DVD PLAY
POWER : AC120V/60Hz
LINE : L
REMARKS : -

REPORT No. : 22IE0009-KT-1
DATE : APRIL 16, 2002
REGULATION : FCC PART15 SUBPART B
TEST NO. : 12

Y. Arakawa
TEST ENGINEER: YOSHIYUKI ARAKAWA

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	40.2	----	0.5	40.7	----	48.0	----	7.3	----
2	0.669	33.2	----	0.4	33.6	----	48.0	----	14.4	----
3	2.706	32.0	----	0.5	32.5	----	48.0	----	15.5	----
4	2.709	32.0	----	0.5	32.5	----	48.0	----	15.5	----
5	5.230	28.0	----	0.6	28.6	----	48.0	----	19.4	----
6	20.090	23.9	----	0.9	24.8	----	48.0	----	23.2	----

RESULT=READING+CABLE LOSS+CLAMP FACTOR



DATA OF RADIATION TEST

A-PEX INTERNATIONAL CO., LTD.
YAMAKITA NO.1 SITE

COMPANY : ORION ELECTRIC CO., LTD.
EQUIPMENT : DVD/VCR
MODEL No. : HR-XVC1U
POWER : AC120V/60Hz
DESCRIPTION : TV RECEPTION+REC MODE

REPORT No. : 22IE0009-KT-1
REGULATION : FCC PART15B
TEST DISTANCE : 3m
ATTENUATION : 101-847MHz 6dB
1034-1694MHz 0dB
DATE : April 10, 2002

ENGINEER : Ichiro Isozaki

CH.	FREQ	READING		ANT TYPE	ANT. FAC.	CABLE LOSS	AMP GAIN	RESULTS		LIMIT	MARGIN	
	[MHz]	HOR.	VER.					HOR.	VER.		HOR.	VER.
VHF Fundamental												
2	101	21.7	22.6	BC	10.2	2.5	28.4	12.0	12.9	43.5	31.5	30.6
3	107	22.4	23.5	BC	11.2	2.6	28.4	13.8	14.9	43.5	29.7	28.6
4	113	22.5	24.3	BC	12.1	2.6	28.4	14.8	16.6	43.5	28.7	26.9
5	123	23.6	24.8	BC	13.4	2.8	28.5	17.3	18.5	43.5	26.2	25.0
6	129	23.0	23.7	BC	13.7	2.8	28.4	17.1	17.8	43.5	26.4	25.7
7	221	21.1	22.0	BC	16.8	4.0	28.0	19.9	20.8	46.0	26.1	25.2
8	227	22.9	21.3	BC	16.8	4.1	28.0	21.8	20.2	46.0	24.2	25.8
9	233	23.8	23.2	BC	16.8	4.2	27.9	22.9	22.3	46.0	23.1	23.7
10	239	23.1	23.9	BC	16.9	4.3	27.9	22.4	23.2	46.0	23.6	22.8
11	245	22.3	22.3	BC	16.9	4.5	27.8	21.9	21.9	46.0	24.1	24.1
12	251	22.2	22.6	BC	17.0	4.6	27.8	22.0	22.4	46.0	24.0	23.6
13	257	21.0	22.2	BC	17.4	4.7	27.8	21.3	22.5	46.0	24.7	23.5
VHF 2nd Harmonic												
2	202	21.4	21.0	BC	16.7	3.7	28.2	19.6	19.2	43.5	23.9	24.3
3	214	21.4	21.6	BC	16.8	3.9	28.1	20.0	20.2	43.5	23.5	23.3
4	226	21.2	22.3	BC	16.8	4.1	28.0	20.1	21.2	46.0	25.9	24.8
5	246	20.9	23.8	BC	16.9	4.5	27.8	20.5	23.4	46.0	25.5	22.6
6	258	21.0	21.6	BC	17.4	4.7	27.8	21.3	21.9	46.0	24.7	24.1
7	442	21.1	21.0	LP	17.7	5.7	28.9	21.6	21.5	46.0	24.4	24.5
8	454	21.2	21.1	LP	17.8	5.8	29.0	21.8	21.7	46.0	24.2	24.3
9	466	21.2	21.6	LP	17.9	5.9	29.1	21.9	22.3	46.0	24.1	23.7
10	478	21.6	21.6	LP	17.9	6.0	29.2	22.3	22.3	46.0	23.7	23.7
11	490	21.9	23.1	LP	18.0	6.1	29.2	22.8	24.0	46.0	23.2	22.0
12	502	21.1	21.1	LP	18.1	6.2	29.2	22.2	22.2	46.0	23.8	23.8
13	514	20.9	20.9	LP	18.3	6.3	29.3	22.2	22.2	46.0	23.8	23.8

DATA OF RADIATION TEST

A-PEX INTERNATIONAL CO., LTD.
YAMAKITA NO.1 SITE

COMPANY : ORION ELECTRIC CO., LTD.
EQUIPMENT : DVD/VCR
MODEL No. : HR-XVC1U
POWER : AC120V/60Hz
DESCRIPTION : TV RECEPTION+REC MODE

REPORT No. : 22IE0009-KT-1
REGULATION : FCC PART15B
TEST DISTANCE : 3m
ATTENUATION : 101-847MHz 6dB
1034-1694MHz 0dB
DATE : April 10, 2002

ENGINEER : Ichiro Isozaki

CH.	FREQ	READING		ANT TYPE	ANT. FAC.	CABLE LOSS	AMP GAIN	RESULTS		LIMIT	MARGIN	
	[MHz]	HOR.	VER.					HOR.	VER.		HOR.	VER.
		[dBuV]			[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	[dB]
CATV Fundamental												
1	119	23.5	24.6	BC	13.1	2.7	28.4	16.9	18.0	43.5	26.6	25.5
95	137	21.5	23.0	BC	14.1	2.9	28.4	16.1	17.6	43.5	27.4	25.9
97	149	20.8	23.0	BC	14.5	3.1	28.4	16.0	18.2	43.5	27.5	25.3
99	161	20.8	22.7	BC	14.9	3.2	28.3	16.6	18.5	43.5	26.9	25.0
14	167	20.9	21.6	BC	15.2	3.3	28.4	17.0	17.7	43.5	26.5	25.8
18	191	21.3	20.6	BC	16.3	3.5	28.2	18.9	18.2	43.5	24.6	25.3
22	215	20.8	21.9	BC	16.8	3.9	28.1	19.4	20.5	43.5	24.1	23.0
23	263	20.3	20.6	BC	17.8	4.8	27.8	21.1	21.4	46.0	24.9	24.6
29	299	19.9	19.9	BC	20.2	5.4	27.8	23.7	23.7	46.0	22.3	22.3
36	341	20.5	20.3	LP	15.7	5.4	28.1	19.5	19.3	46.0	26.5	26.7
37	347	25.3	20.4	LP	15.9	5.4	28.2	24.4	19.5	46.0	21.6	26.5
65	515	21.2	21.1	LP	18.3	6.3	29.3	22.5	22.4	46.0	23.5	23.6
94	689	27.1	27.7	LP	20.7	7.4	29.4	31.8	32.4	46.0	14.2	13.6
100	695	30.4	27.1	LP	20.8	7.5	29.4	35.3	32.0	46.0	10.7	14.0
113	773	25.0	24.0	LP	21.7	8.0	29.9	30.8	29.8	46.0	15.2	16.2
125	845	24.3	24.9	LP	22.2	8.4	29.9	31.0	31.6	46.0	15.0	14.4
CATV 2nd Harmonic												
1	238	22.9	22.7	BC	16.9	4.3	27.9	22.2	22.0	46.0	23.8	24.0
95	274	20.2	20.1	BC	18.5	5.0	27.7	22.0	21.9	46.0	24.0	24.1
97	298	19.9	19.9	BC	20.2	5.4	27.8	23.7	23.7	46.0	22.3	22.3
99	322	20.1	20.4	LP	15.2	5.4	28.0	18.7	19.0	46.0	27.3	27.0
14	334	20.8	20.6	LP	15.6	5.4	28.1	19.7	19.5	46.0	26.3	26.5
18	382	21.1	20.6	LP	16.9	5.4	28.5	20.9	20.4	46.0	25.1	25.6
22	430	20.5	21.2	LP	17.6	5.6	28.8	20.9	21.6	46.0	25.1	24.4
23	526	21.0	21.1	LP	18.4	6.3	29.4	22.3	22.4	46.0	23.7	23.6
29	598	21.4	21.6	LP	19.4	6.9	29.4	24.3	24.5	46.0	21.7	21.5
36	682	20.8	20.4	LP	20.6	7.4	29.5	25.3	24.9	46.0	20.7	21.1
37	694	22.1	21.6	LP	20.8	7.5	29.4	27.0	26.5	46.0	19.0	19.5
65	1030	39.5	40.5	HO	25.4	3.9	37.1	31.7	32.7	54.0	22.3	21.3
94	1378	38.6	42.6	HO	25.7	4.4	37.5	31.2	35.2	54.0	22.8	18.8
100	1390	36.8	41.4	HO	25.7	4.4	37.5	29.4	34.0	54.0	24.6	20.0
113	1546	43.6	52.0	HO	26.1	4.7	37.5	36.9	45.3	54.0	17.1	8.7
125	1690	43.2	49.1	HO	27.1	4.9	37.4	37.8	43.7	54.0	16.2	10.3

DATA OF RADIATION TEST

A-PEX INTERNATIONAL CO., LTD.
YAMAKITA NO.1 SITE

COMPANY : ORION ELECTRIC CO., LTD.
EQUIPMENT : DVD/VCR
MODEL No. : HR-XVC1U
POWER : AC120V/60Hz
DESCRIPTION : TV RECEPTION+REC MODE

REPORT No. : 22IE0009-KT-1
REGULATION : FCC PART15B
TEST DISTANCE : 3m
ATTENUATION : 101-847MHz 6dB
1034-1694MHz 0dB
DATE : April 10, 2002

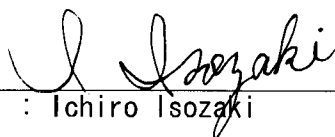
ENGINEER : Ichiro Isozaki

CH.	FREQ	READING		ANT TYPE	ANT. FAC.	CABLE LOSS	AMP GAIN	RESULTS		LIMIT	MARGIN	
	[MHz]	HOR.	VER.					[dBuV]	HOR.		VER.	[dBuV/m]
UHF Fundamental												
14	517	21.7	22.6	LP	18.3	6.3	29.3	23.0	23.9	46.0	23.0	22.1
19	547	23.1	24.6	LP	18.7	6.5	29.3	25.0	26.5	46.0	21.0	19.5
28	601	24.5	24.0	LP	19.4	6.9	29.4	27.4	26.9	46.0	18.6	19.1
36	649	24.9	26.4	LP	20.1	7.2	29.5	28.7	30.2	46.0	17.3	15.8
44	697	24.9	28.1	LP	20.9	7.5	29.4	29.9	33.1	46.0	16.1	12.9
53	751	23.0	23.6	LP	21.5	7.8	29.9	28.4	29.0	46.0	17.6	17.0
61	799	22.4	23.9	LP	22.0	8.1	29.8	28.7	30.2	46.0	17.3	15.8
69	847	26.5	27.2	LP	22.2	8.4	29.9	33.2	33.9	46.0	12.8	12.1
UHF 2nd Harmonic												
14	1034	41.0	40.1	HO	25.4	3.9	37.1	33.2	32.3	54.0	20.8	21.7
19	1094	40.8	41.2	HO	25.5	4.0	37.2	33.1	33.5	54.0	20.9	20.5
28	1202	42.0	50.4	HO	25.6	4.1	37.3	34.4	42.8	54.0	19.6	11.2
36	1298	46.3	48.3	HO	25.6	4.3	37.4	38.8	40.8	54.0	15.2	13.2
44	1394	36.7	40.1	HO	25.7	4.4	37.5	29.3	32.7	54.0	24.7	21.3
53	1502	39.8	45.9	HO	25.8	4.6	37.6	32.6	38.7	54.0	21.4	15.3
61	1598	45.1	52.3	HO	26.4	4.8	37.5	38.8	46.0	54.0	15.2	8.0
69	1694	44.0	48.0	HO	27.1	4.9	37.4	38.6	42.6	54.0	15.4	11.4

DATA OF RADIATION TEST

A-PEX INTERNATIONAL CO., LTD.
Yamakita No.1 Open Test Site
Report No. : 22IE0009-KT-1

Applicant : ORION ELECTRIC CO., LTD.
Kind of Equipment : DVD/VCR
Model No. : HR-XVC1U
Serial No. :
Power : AC120V/60Hz
Mode : TV RECEPTION + REC MODE
Remarks : Other (25dBmV)
Date : 4/11/2002
Test Distance : 3 m
Temperature : 19 °C
Humidity : 68 %
Regulation : FCC Part15B § 15.109(a)


Engineer : Ichiro Isozaki

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.	140.01	BB	31.3	26.9	14.2	28.3	3.0	6.0	26.2	21.8	43.5	17.3	21.7
2.	188.99	BB	30.0	22.9	16.3	28.2	3.5	6.0	27.6	20.5	43.5	15.9	23.0
3.	216.00	BB	35.9	26.1	16.8	28.1	3.9	6.0	34.5	24.7	43.5	9.0	18.8
4.	243.40	BB	23.8	27.1	16.9	27.9	4.4	6.0	23.2	26.5	46.0	22.8	19.5
5.	324.00	BB	33.7	31.5	15.6	28.0	5.4	6.0	32.7	30.5	46.0	13.3	15.5
6.	971.99	BB	26.5	31.0	22.9	29.4	9.2	6.0	35.2	39.7	54.0	18.8	14.3

CALCULATION: $\text{READING}[\text{dB } \mu\text{V}] + \text{ANT. FACTOR}[\text{dB/m}] + \text{CABLE LOSS}[\text{dB}] - \text{AMP. GAIN}[\text{dB}] + \text{ATTEN}[\text{dB}]$.

■ ANTENNA: KBA-01 (BBA9106) 30-299.99MHz/KLA-01 (USLP9143) 300-1000MHz

■ CABLE: KCC-10/11/12/13/18 ■ PREAMP: KAF-01 (8447D) ■ EMI RECEIVER: KTR-02 (ESGS30)

DATA OF RADIATION TEST

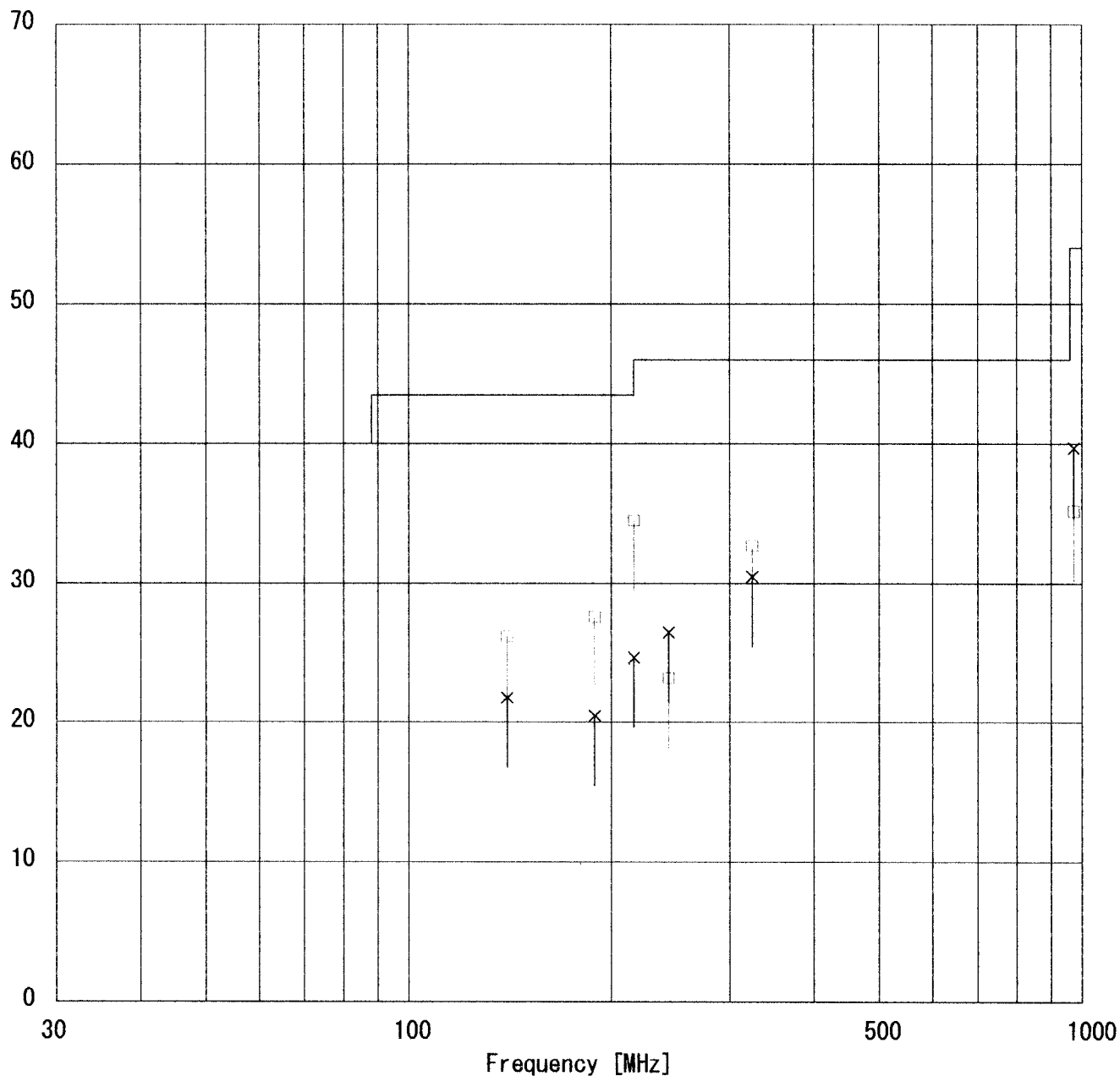
A-PEX INTERNATIONAL CO., LTD.

Yamakita No.1 Open Test Site

Report No. : 221E0009-KT-1

Applicant : ORION ELECTRIC CO., LTD.
 Kind of Equipment : DVD/VCR
 Model No. : HR-XVC1U
 Serial No. :
 Power : AC120V/60Hz
 Mode : TV RECEPTION + REC MODE
 Remarks : Other (25dBmV)
 Date : 4/11/2002
 Test Distance : 3 m
 Temperature : 19 °C
 Humidity : 68 %
 Regulation : FCC Part15B § 15.109(a)


 Engineer : Ichiro Isozaki

Emission Level [dB μ V/m]☐ Horizontal☒ Vertical

DATA OF RADIATION TEST

A-PEX INTERNATIONAL CO., LTD.
Yamakita No.1 Open Test Site
Report No. : 22IE0009-KT-1

Applicant : ORION ELECTRIC CO., LTD.
Kind of Equipment : DVD/VCR
Model No. : HR-XVC1U
Serial No. :
Power : AC120V/60Hz
Mode : VIDEO INPUT + REC MODE
Remarks : Other (5Vp-p)
Date : 4/11/2002
Test Distance : 3 m
Temperature : 19 °C
Humidity : 68 %
Regulation : FCC Part15B § 15.109(a)


Engineer : Ichiro Isozaki

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.	40.01	BB	23.9	34.0	14.2	28.5	1.5	6.0	17.1	27.2	40.0	22.9	12.8
2.	100.00	BB	28.8	30.6	10.0	28.4	2.5	6.0	18.9	20.7	43.5	24.6	22.8
3.	114.55	BB	32.0	34.6	12.4	28.4	2.7	6.0	24.7	27.3	43.5	18.8	16.2
4.	216.00	BB	37.1	30.1	16.8	28.1	3.9	6.0	35.7	28.7	43.5	7.8	14.8
5.	324.02	BB	31.8	32.6	15.6	28.0	5.4	6.0	30.8	31.6	46.0	15.2	14.4
6.	971.99	BB	26.2	30.8	22.9	29.4	9.2	6.0	34.9	39.5	54.0	19.1	14.5

CALCULATION: $\text{READING}[\text{dB } \mu\text{V}] + \text{ANT. FACTOR}[\text{dB/m}] + \text{CABLE LOSS}[\text{dB}] - \text{AMP. GAIN}[\text{dB}] + \text{ATTEN}[\text{dB}]$.

■ ANTENNA: KBA-01 (BBA9106) 30-299.99MHz/KLA-01 (USLP9143) 300-1000MHz
■ CABLE: KCC-10/11/12/13/18 ■ PREAMP: KAF-01 (8447D) ■ EMI RECEIVER: KTR-02 (ESCS30)

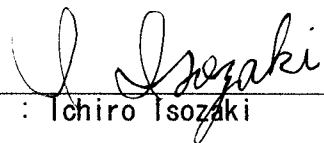
DATA OF RADIATION TEST

A-PEX INTERNATIONAL CO., LTD.

Yamakita No.1 Open Test Site

Report No. : 22IE0009-KT-1

Applicant : ORION ELECTRIC CO., LTD.
 Kind of Equipment : DVD/VCR
 Model No. : HR-XVC1U
 Serial No. :
 Power : AC120V/60Hz
 Mode : VIDEO INPUT + REC MODE
 Remarks : Other (5Vp-p)
 Date : 4/11/2002
 Test Distance : 3 m
 Temperature : 19 °C
 Humidity : 68 %
 Regulation : FCC Part15B § 15.109(a)


 Engineer : Ichiro Isozaki

Emission Level [dB μ V/m]

□Horizontal

×Vertical

70

60

50

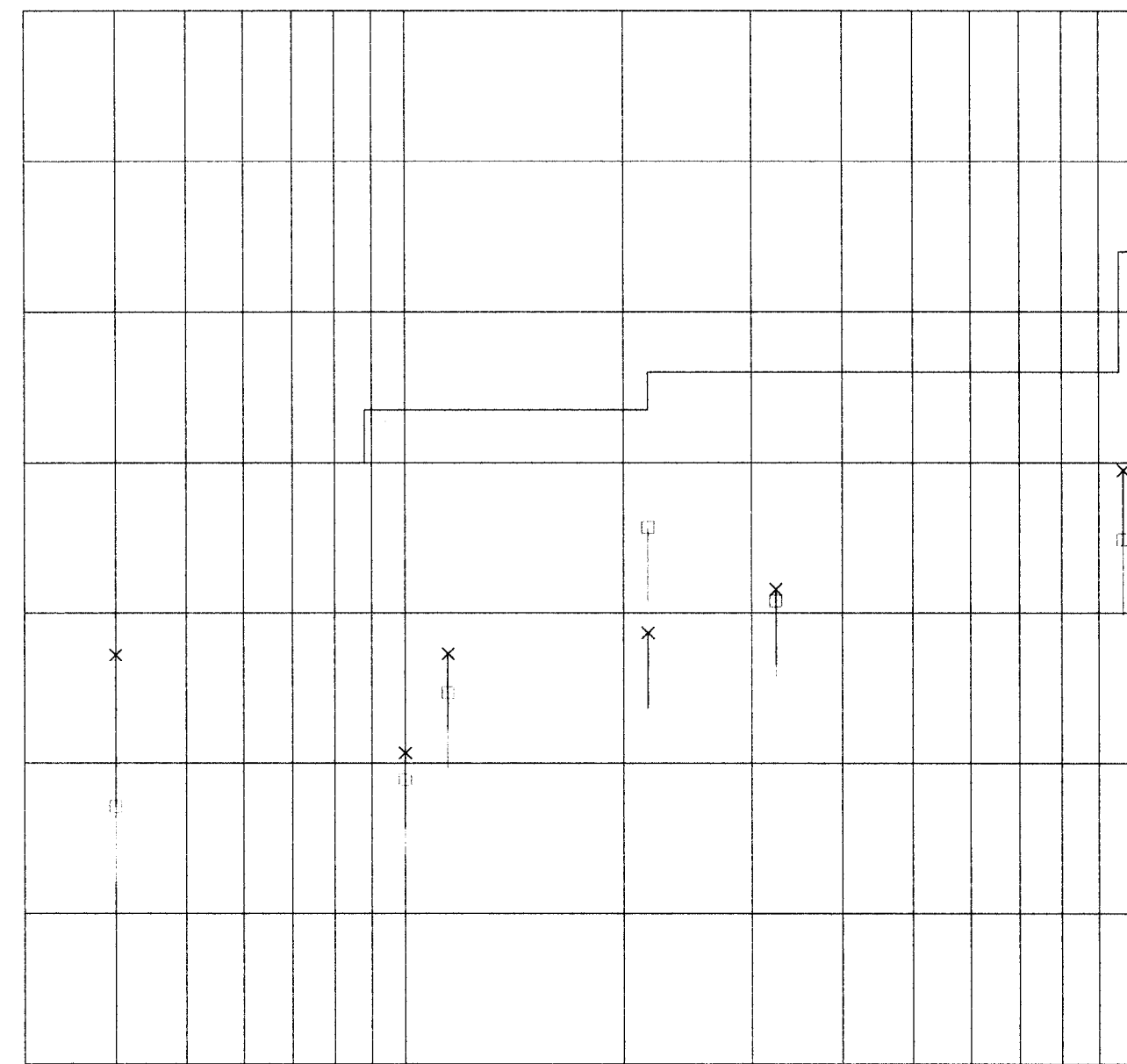
40

30

20

10

0



Frequency [MHz]

Page 1

DATA OF RADIATION TEST

A-PEX INTERNATIONAL CO., LTD.
Yamakita No.1 Open Test Site
Report No. : 22IE0009-KT-1

Applicant : ORION ELECTRIC CO., LTD.
Kind of Equipment : DVD/VCR
Model No. : HR-XVC1U
Serial No. :
Power : AC120V/60Hz
Mode : DVD PLAY MODE
Remarks : Other
Date : 4/11/2002
Test Distance : 3 m
Temperature : 19 °C
Humidity : 68 %
Regulation : FCC Part15B § 15.109(a)


Engineer : Ichiro Isozaki

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.	100.01	BB	30.6	34.2	10.0	28.4	2.5	6.0	20.7	24.3	43.5	22.8	19.2
2.	114.55	BB	32.9	39.1	12.4	28.4	2.7	6.0	25.6	31.8	43.5	17.9	11.7
3.	216.00	BB	35.4	27.4	16.8	28.1	3.9	6.0	34.0	26.0	43.5	9.5	17.5
4.	324.02	BB	34.5	30.4	15.6	28.0	5.4	6.0	33.5	29.4	46.0	12.5	16.6
5.	331.78	BB	28.7	22.5	15.8	28.1	5.4	6.0	27.8	21.6	46.0	18.2	24.4
6.	400.79	BB	35.6	30.8	17.3	28.7	5.4	6.0	35.6	30.8	46.0	10.4	15.2

CALCULATION: $\text{READING}[\text{dB } \mu\text{V}] + \text{ANT. FACTOR}[\text{dB/m}] + \text{CABLE LOSS}[\text{dB}] - \text{AMP. GAIN}[\text{dB}] + \text{ATTEN}[\text{dB}]$.

■ ANTENNA: KBA-01 (BBA9106) 30-299.99MHz/KLA-01 (USLP9143) 300-1000MHz

■ CABLE: KCC-10/11/12/13/18 ■ PREAMP: KAF-01 (8447D) ■ EMI RECEIVER: KTR-02 (ESCS30)

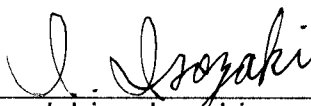
DATA OF RADIATION TEST

A-PEX INTERNATIONAL CO., LTD.

Yamakita No.1 Open Test Site

Report No. : 221E0009-KT-1

Applicant : ORION ELECTRIC CO., LTD.
 Kind of Equipment : DVD/VCR
 Model No. : HR-XVC1U
 Serial No. :
 Power : AC120V/60Hz
 Mode : DVD PLAY MODE
 Remarks : Other
 Date : 4/11/2002
 Test Distance : 3 m
 Temperature : 19 °C
 Humidity : 68 %
 Regulation : FCC Part15B § 15.109(a)


 Engineer : Ichiro Isozaki

Emission Level [dB μ V/m]

□ Horizontal

× Vertical

70

60

50

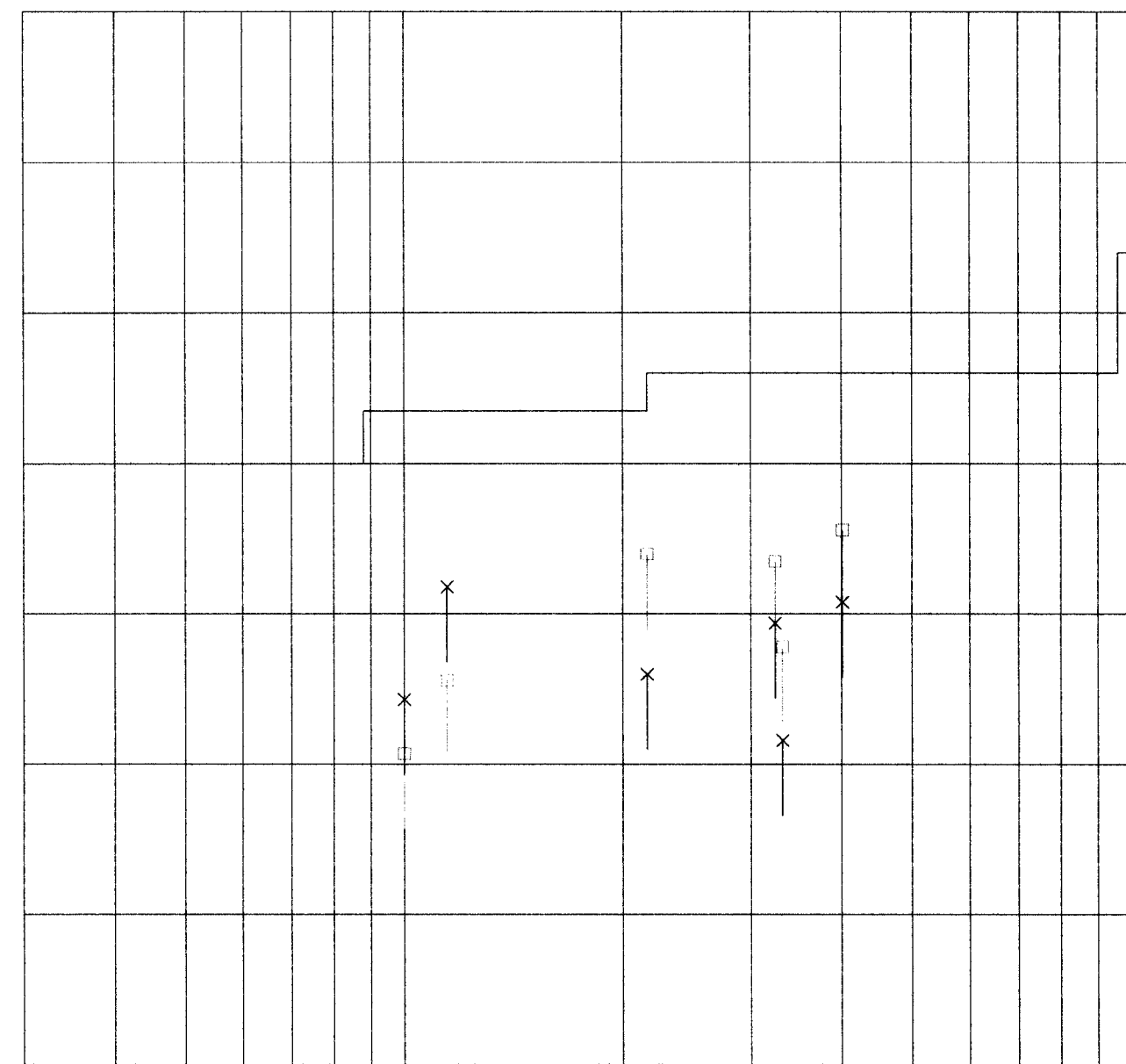
40

30

20

10

0



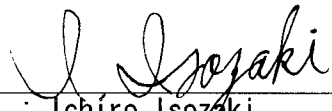
Frequency [MHz]

Page 1

DATA OF RADIATION TEST

A-PEX INTERNATIONAL CO., LTD.
Yamakita No.1 Open Test Site
Report No. : 22IE0009-KT-1

Applicant : ORION ELECTRIC CO., LTD.
Kind of Equipment : DVD/VCR
Model No. : HR-XVC1U
Serial No. :
Power : AC120V/60Hz
Mode : DVD PLAY MODE
Remarks : AVERAGE DETECTOR (RBW:1MHz VBW:10Hz)
Date : 4/10/2002
Test Distance : 3 m
Temperature : 21 °C
Humidity : 58 %
Regulation : FCC Part15B § 15.109(a)


Engineer : Ichiro Isozaki

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.	1214.90	BB	53.9	49.9	25.6	37.3	4.2	0.0	46.4	42.4	54.0	7.6	11.6
2.	1694.00	BB	45.9	53.1	27.1	37.4	4.9	0.0	40.5	47.7	54.0	13.5	6.3

CALCULATION: READING[dB μV] + ANT. FACTOR[dB/m] + CABLE LOSS[dB] - AMP. GAIN[dB] + ATTEN[dB].

■ ANTENNA: KHA-01 (SAS-200 571) 1-18GHz

■ CABLE: KCC-D1/D2 ■ PREAMP: KAF-02 (8449B) ■ EMI RECEIVER: KTR-02 (ESCS30)

DATA OF RADIATION TEST

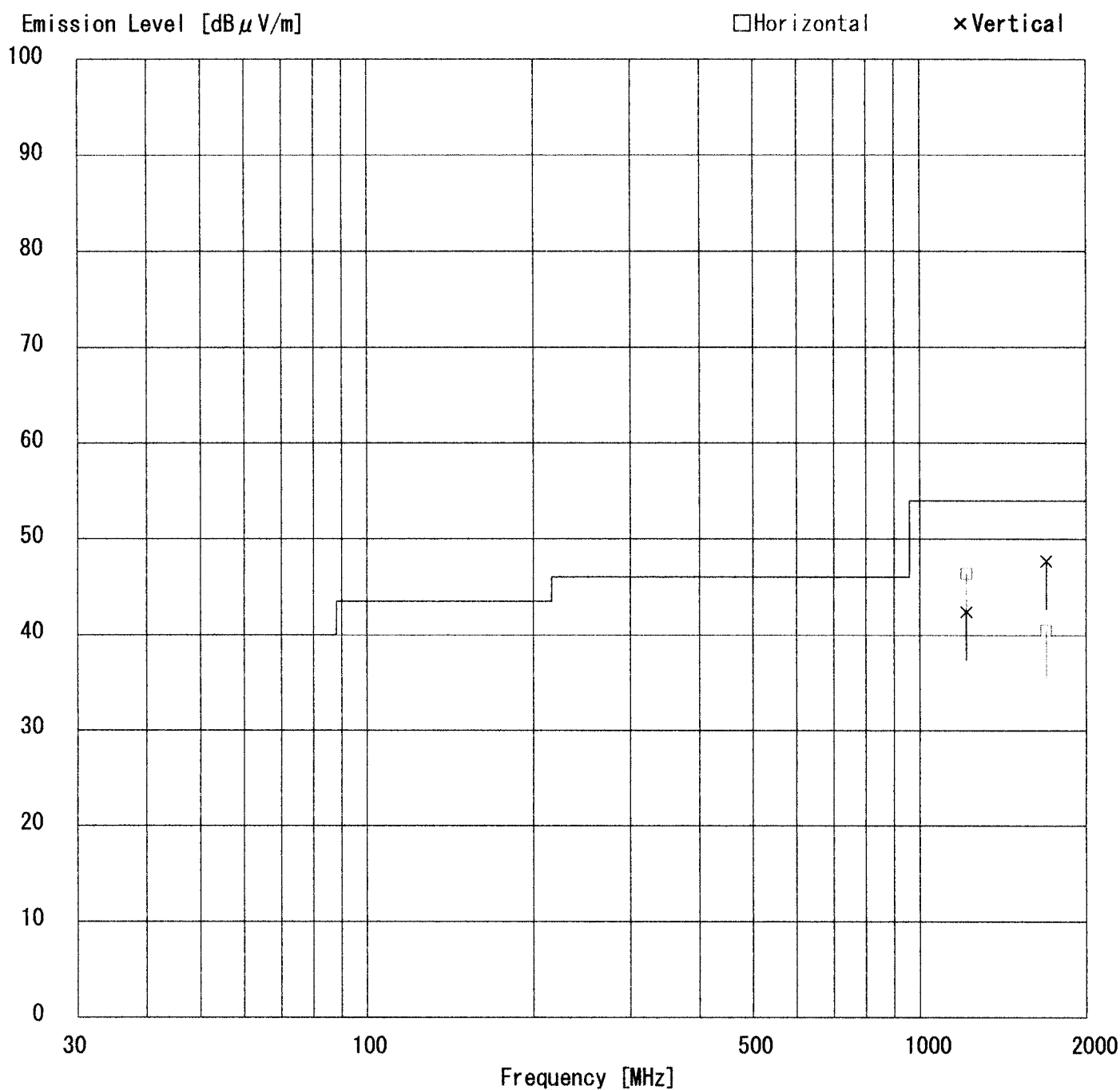
A-PEX INTERNATIONAL CO., LTD.

Yamakita No.1 Open Test Site

Report No. : 221E0009-KT-1

Applicant : ORION ELECTRIC CO., LTD.
 Kind of Equipment : DVD/VCR
 Model No. : HR-XVC1U
 Serial No. :
 Power : AC120V/60Hz
 Mode : DVD PLAY MODE
 Remarks : AVERAGE DETECTOR (RBW:1MHz VBW:10Hz)
 Date : 4/10/2002
 Test Distance : 3 m
 Temperature : 21 °C
 Humidity : 58 %
 Regulation : FCC Part15B § 15.109(a)


 Engineer : Ichiro Isozaki



DATA OF RADIATION TEST

A-PEX INTERNATIONAL CO., LTD.

Yamakita No.1 Anechoic Chamber

Report No. : 22IE0009-KT-1

52.1

Applicant : ORION ELECTRIC CO., LTD.
Kind of Equipment : DVD/VCR
Model No. : HR-XVC1U
Serial No. :
Power : AC120V/60Hz
Mode : DVD PLAY MODE
Remarks : PEAK DETECTOR (RBW: 1MHz VBW: 1MHz)
Date : 4/10/2002
Test Distance : 3 m
Temperature : 21 °C
Humidity : 58 %
Regulation : FCC Part15B CLASS B (PK)


Engineer : Ichiro Isozaki

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.	1214.90	BB	58.8	56.0	25.6	37.3	4.2	0.0	51.3	48.5	74.0	22.7	25.5
2.	1694.00	BB	51.3	57.0	27.1	37.4	4.9	0.0	45.9	51.6	74.0	28.1	22.4

CALCULATION: READING[dB μ V] + ANT. FACTOR[dB/m] + CABLE LOSS[dB] - AMP. GAIN[dB] + ATTEN[dB].

■ ANTENNA: KHA-01 (SAS-200 571) 1-18GHz

■ CABLE: KCC-D1/D2 ■ PREAMP: KAF-02 (8449B) ■ EMI RECEIVER: KTR-02 (ESCS30)

DATA OF RADIATION TEST

A-PEX INTERNATIONAL CO., LTD.

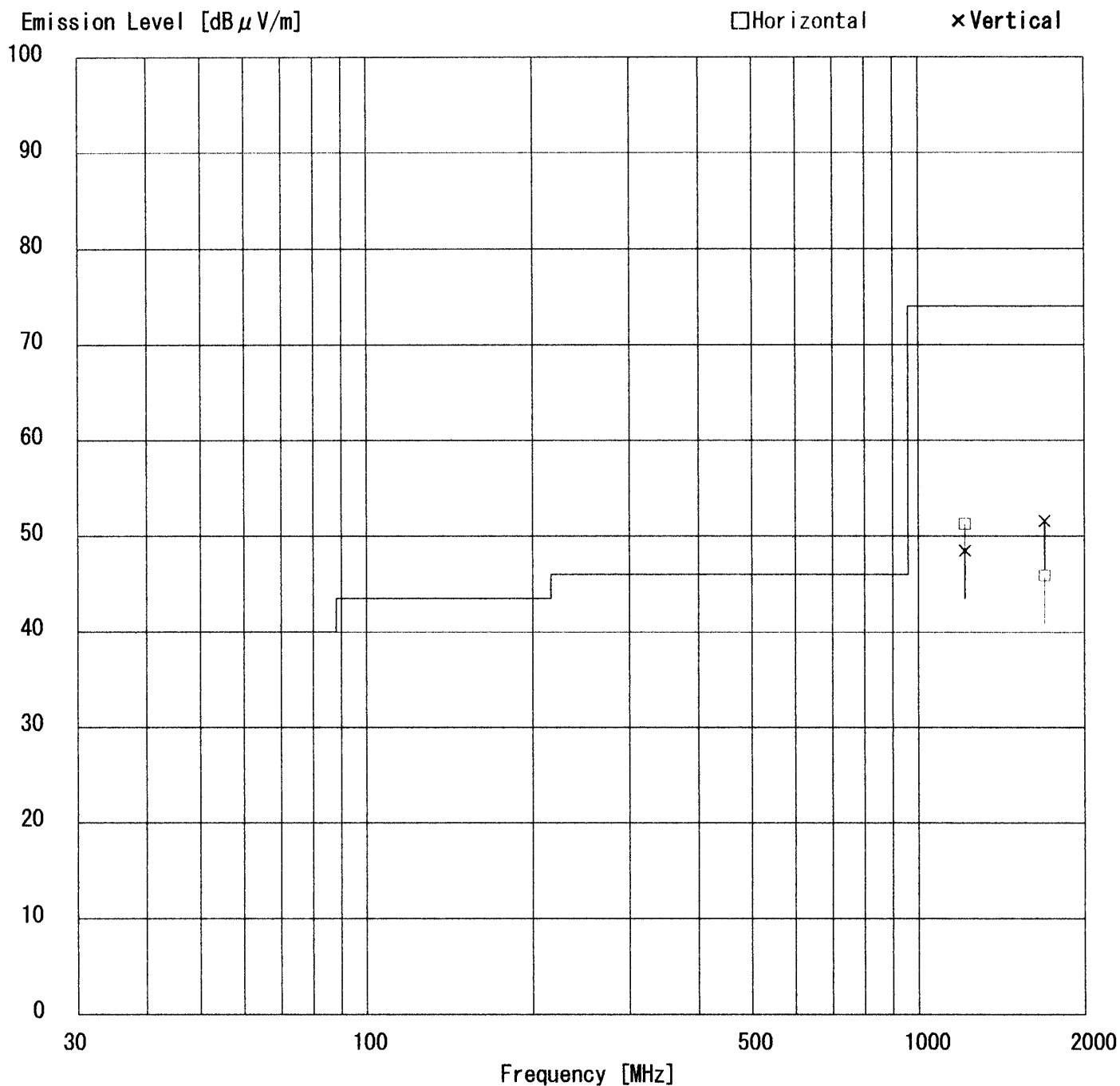
Yamakita No.1 Anechoic Chamber

Report No. : 22IE0009-KT-1

52,2

Applicant : ORION ELECTRIC CO., LTD.
Kind of Equipment : DVD/VCR
Model No. : HR-XVC1U
Serial No. :
Power : AC120V/60Hz
Mode : DVD PLAY MODE
Remarks : PEAK DETECTOR (RBW:1MHz VBW:1MHz)
Date : 4/10/2002
Test Distance : 3 m
Temperature : 21 °C
Humidity : 58 %
Regulation : FCC Part15B CLASS B(PK)

I. Isozaki
Engineer : Ichiro Isozaki



DATA OF RADIATION TEST

A-PEX INTERNATIONAL CO., LTD.
Yamakita No.1 Open Test Site
Report No. : 22IE0009-KT-1

Applicant : ORION ELECTRIC CO., LTD.
Kind of Equipment : DVD/VCR
Model No. : HR-XVC1U
Serial No. :
Power : AC120V/60Hz
Mode : CD PLAY MODE
Remarks : Other
Date : 4/11/2002
Test Distance : 3 m
Temperature : 19 °C
Humidity : 68 %
Regulation : FCC Part15B § 15.109(a)



Engineer : Ichiro Isozaki

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.	114.55	BB	32.8	37.1	12.4	28.4	2.7	6.0	25.5	29.8	43.5	18.0	13.7
2.	216.00	BB	37.0	29.6	16.8	28.1	3.9	6.0	35.6	28.2	43.5	7.9	15.3
3.	405.40	BB	36.2	30.5	17.4	28.7	5.5	6.0	36.4	30.7	46.0	9.6	15.3

CALCULATION: READING[dB μ V] + ANT. FACTOR[dB/m] + CABLE LOSS[dB] - AMP. GAIN[dB] + ATTEN[dB].

■ ANTENNA: KBA-01 (BBA9106) 30-299.99MHz/KLA-01 (USLP9143) 300-1000MHz

■ CABLE: KCC-10/11/12/13/18 ■ PREAMP: KAF-01 (8447D) ■ EMI RECEIVER: KTR-02 (ESCS30)

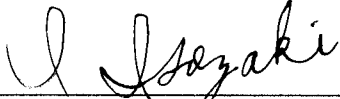
DATA OF RADIATION TEST

A-PEX INTERNATIONAL CO., LTD.

Yamakita No.1 Open Test Site

Report No. : 221E0009-KT-1

Applicant : ORION ELECTRIC CO., LTD.
 Kind of Equipment : DVD/VCR
 Model No. : HR-XVC1U
 Serial No. :
 Power : AC120V/60Hz
 Mode : CD PLAY MODE
 Remarks : Other
 Date : 4/11/2002
 Test Distance : 3 m
 Temperature : 19 °C
 Humidity : 68 %
 Regulation : FCC Part15B § 15.109(a)


 Engineer : Ichiro Isozaki

Emission Level [dB μ V/m]☐ Horizontal☒ Vertical

70

60

50

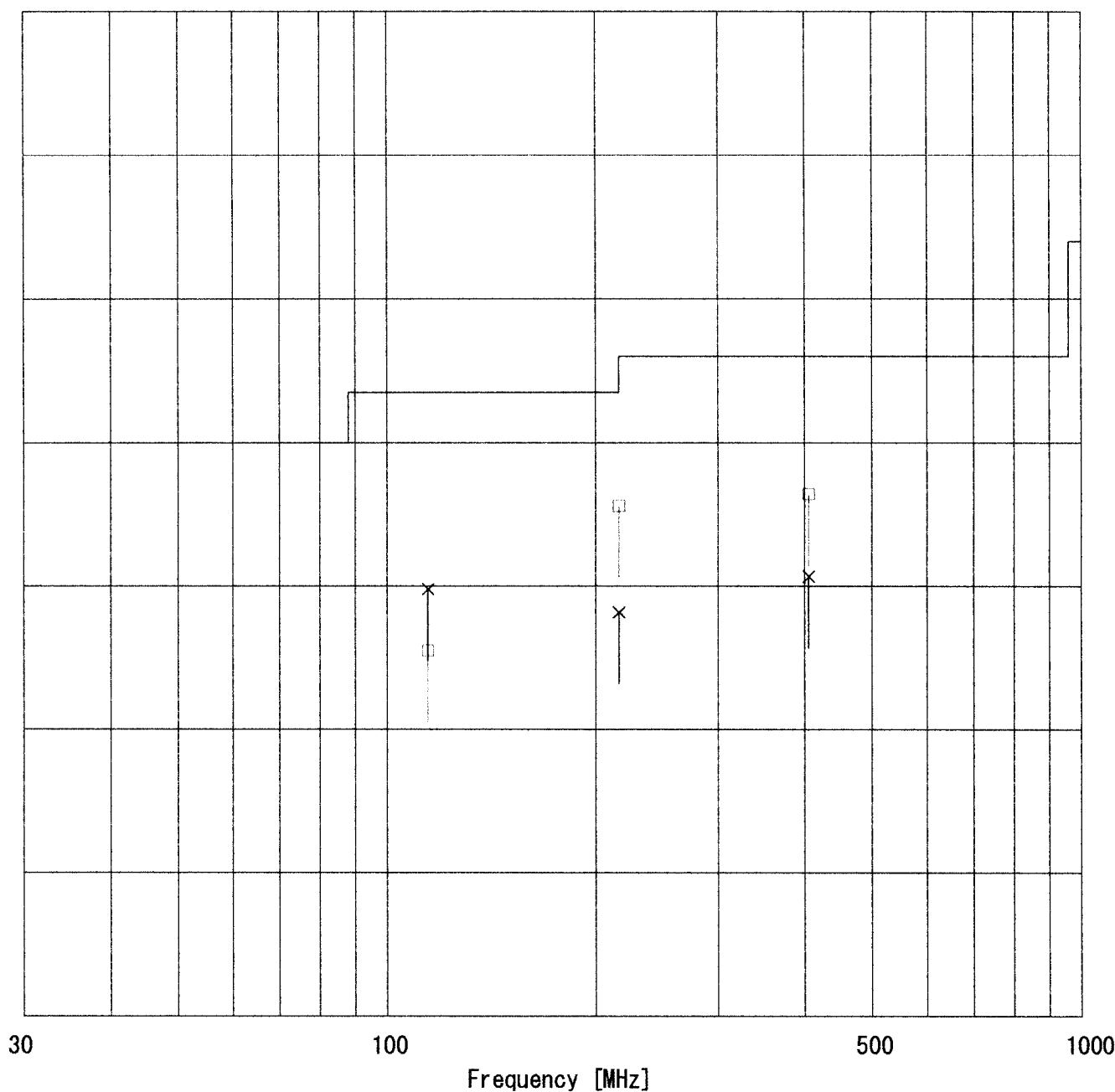
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DATA OF RADIATION TEST

A-PEX INTERNATIONAL CO., LTD.
Yamakita No.1 Open Test Site
Report No. : 22IE0009-KT-1

Applicant : ORION ELECTRIC CO., LTD.
Kind of Equipment : DVD/VCR
Model No. : HR-XVC1U
Serial No. :
Power : AC120V/60Hz
Mode : CD PLAY MODE
Remarks : AVERAGE DETECTOR (RBW:1MHz VBW:10Hz)
Date : 4/10/2002
Test Distance : 3 m
Temperature : 21 °C
Humidity : 58 %
Regulation : FCC Part15B § 15.109(a)


Engineer : Ichiro Isozaki

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.	1694.00	BB	48.2	53.0	27.1	37.4	4.9	0.0	42.8	47.6	54.0	11.2	6.4

CALCULATION: $\text{READING}[\text{dB } \mu \text{V}] + \text{ANT. FACTOR}[\text{dB/m}] + \text{CABLE LOSS}[\text{dB}] - \text{AMP. GAIN}[\text{dB}] + \text{ATTEN}[\text{dB}]$.

■ANTENNA:KHA-01 (SAS-200 571) 1-18GHz

■CABLE:KCC-D1/D2 ■PREAMP:KAF-02 (8449B) ■EMI RECEIVER:KTR-02 (ESCS30)

DATA OF RADIATION TEST

56

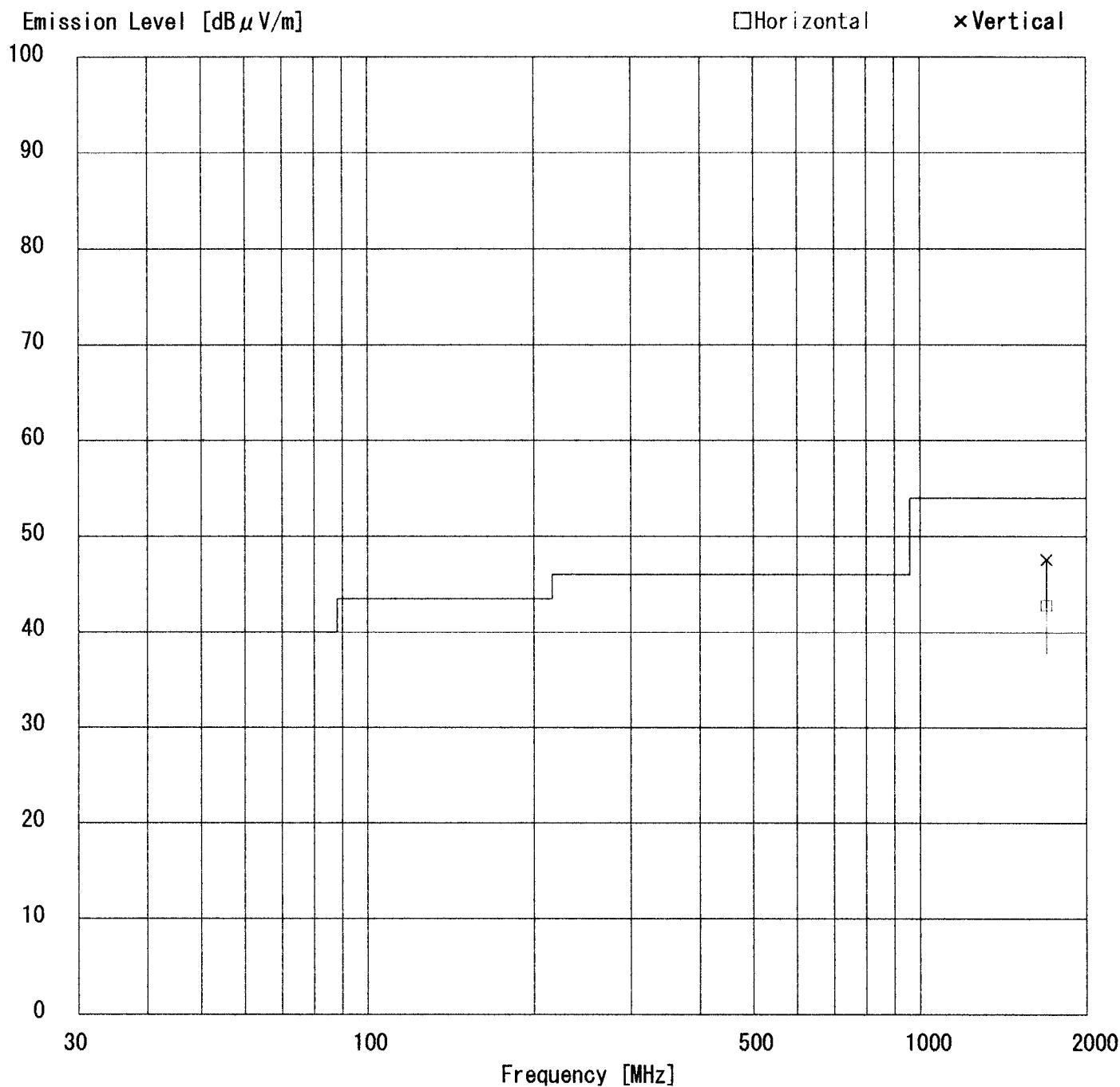
A-PEX INTERNATIONAL CO., LTD.

Yamakita No.1 Open Test Site

Report No. : 22IE0009-KT-1

Applicant : ORION ELECTRIC CO., LTD.
Kind of Equipment : DVD/VCR
Model No. : HR-XVC1U
Serial No. :
Power : AC120V/60Hz
Mode : CD PLAY MODE
Remarks : AVERAGE DETECTOR (RBW:1MHz VBW:10Hz)
Date : 4/10/2002
Test Distance : 3 m
Temperature : 21 °C
Humidity : 58 %
Regulation : FCC Part15B § 15.109(a)

Ichiro Isozaki
Engineer : Ichiro Isozaki

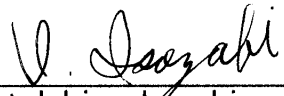


DATA OF RADIATION TEST

A-PEX INTERNATIONAL CO., LTD.
Yamakita No.1 Anechoic Chamber
Report No. : 22IE0009-KT-1

56.1

Applicant : ORION ELECTRIC CO., LTD.
Kind of Equipment : DVD/VCR
Model No. : HR-XVC1U
Serial No. :
Power : AC120V/60Hz
Mode : CD PLAY MODE
Remarks : PEAK DETECTOR (RBW: 1MHz VBW: 1MHz)
Date : 4/10/2002
Test Distance : 3 m
Temperature : 21 °C
Humidity : 58 %
Regulation : FCC Part15C § 15. 209 (PK Detection)


Engineer : Ichiro Isozaki

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.	1694.00	BB	52.6	56.5	27.1	37.4	4.9	0.0	47.2	51.1	74.0	26.8	22.9

CALCULATION: READING[dB μ V] + ANT. FACTOR[dB/m] + CABLE LOSS[dB] - AMP. GAIN[dB] + ATTEN[dB].

■ ANTENNA: KHA-01 (SAS-200 571) 1-18GHz
■ CABLE: KCC-D1/D2 ■ PREAMP: KAF-02 (8449B) ■ EMI RECEIVER: KTR-02 (ESCS30)

DATA OF RADIATION TEST

A-PEX INTERNATIONAL CO., LTD.

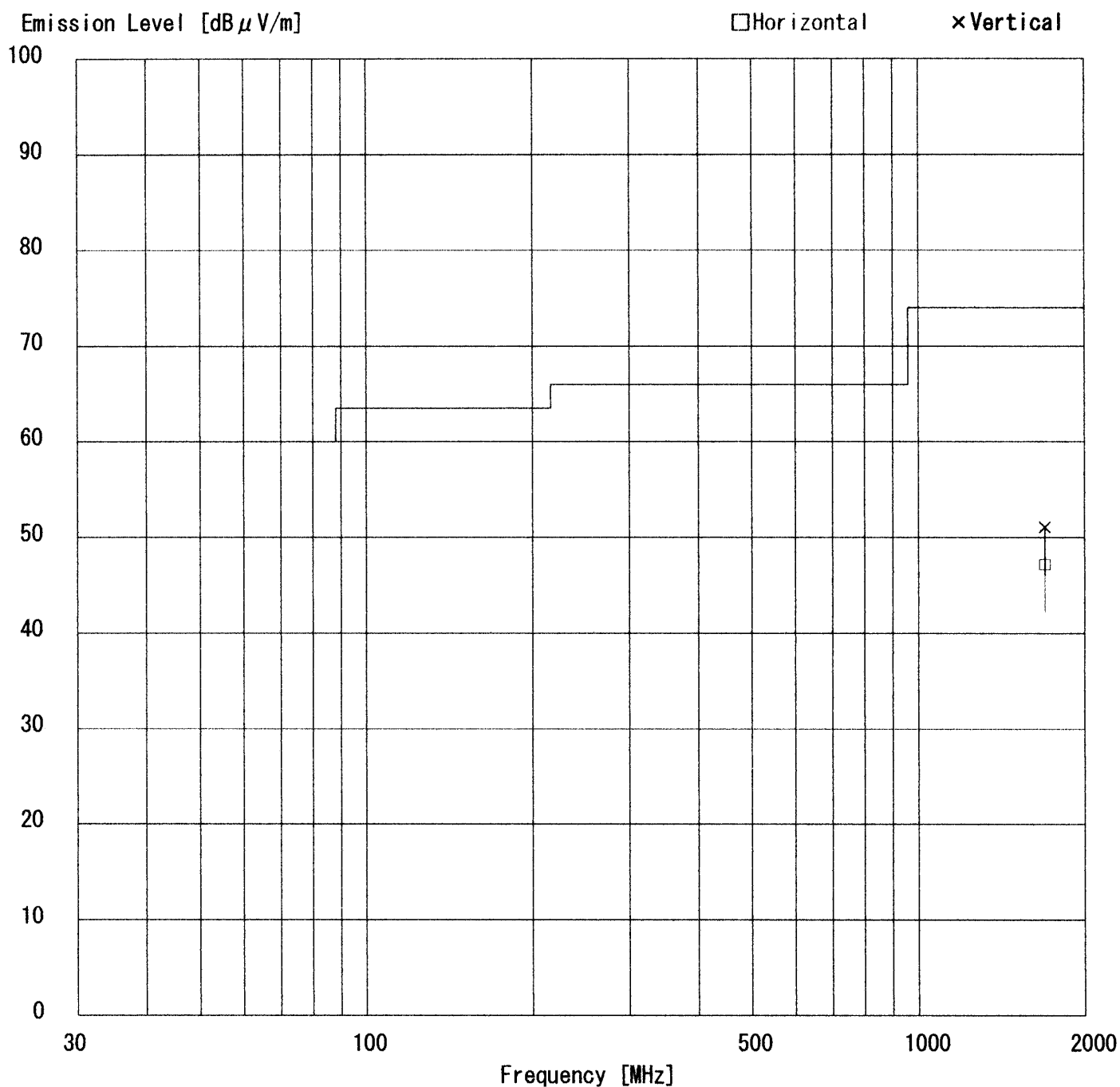
Yamakita No.1 Anechoic Chamber

Report No. : 221E0009-KT-1

56, 2

Applicant : ORION ELECTRIC CO., LTD.
Kind of Equipment : DVD/VCR
Model No. : HR-XVC1U
Serial No. :
Power : AC120V/60Hz
Mode : CD PLAY MODE
Remarks : PEAK DETECTOR (RBW: 1MHz VBW: 1MHz)
Date : 4/10/2002
Test Distance : 3 m
Temperature : 21 °C
Humidity : 58 %
Regulation : FCC Part15C § 15. 209 (PK Detection)

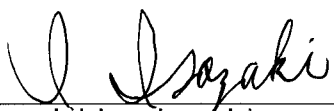
U. Isozaki
Engineer : Ichiro Isozaki



DATA OF RADIATION TEST

A-PEX INTERNATIONAL CO., LTD.
Yamakita No.1 Open Test Site
Report No. : 22IE0009-KT-1

Applicant : ORION ELECTRIC CO., LTD.
Kind of Equipment : DVD/VCR
Model No. : HR-XVC1U
Serial No. :
Power : AC120V/60Hz
Mode : PLAY BACK MODE
Remarks : Other
Date : 4/11/2002
Test Distance : 3 m
Temperature : 19 °C
Humidity : 68 %
Regulation : FCC Part15B § 15.109(a)


Engineer : Ichiro Isozaki

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.	85.91	BB	33.3	34.8	7.3	28.5	2.3	6.0	20.4	21.9	40.0	19.6	18.1
2.	91.66	BB	28.7	27.8	8.2	28.4	2.4	6.0	16.9	16.0	43.5	26.6	27.5
3.	100.00	BB	29.5	30.1	10.0	28.4	2.5	6.0	19.6	20.2	43.5	23.9	23.3
4.	216.00	BB	34.7	28.3	16.8	28.1	3.9	6.0	33.3	26.9	43.5	10.2	16.6
5.	324.01	BB	33.4	30.9	15.6	28.0	5.4	6.0	32.4	29.9	46.0	13.6	16.1
6.	972.00	BB	26.4	30.4	22.9	29.4	9.2	6.0	35.1	39.1	54.0	18.9	14.9

CALCULATION: $\text{READING}[\text{dB } \mu\text{V}] + \text{ANT. FACTOR}[\text{dB/m}] + \text{CABLE LOSS}[\text{dB}] - \text{AMP. GAIN}[\text{dB}] + \text{ATTEN}[\text{dB}]$.

■ ANTENNA: KBA-01 (BBA9106) 30-299.99MHz/KLA-01 (USLP9143) 300-1000MHz
■ CABLE: KCC-10/11/12/13/18 ■ PREAMP: KAF-01 (8447D) ■ EMI RECEIVER: KTR-02 (ESCS30)

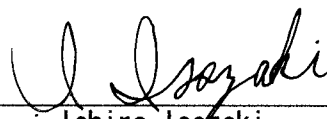
DATA OF RADIATION TEST

A-PEX INTERNATIONAL CO., LTD.

Yamakita No.1 Open Test Site

Report No. : 221E0009-KT-1

Applicant : ORION ELECTRIC CO., LTD.
 Kind of Equipment : DVD/VCR
 Model No. : HR-XVC1U
 Serial No. :
 Power : AC120V/60Hz
 Mode : PLAY BACK MODE
 Remarks : Other
 Date : 4/11/2002
 Test Distance : 3 m
 Temperature : 19 °C
 Humidity : 68 %
 Regulation : FCC Part15B § 15.109(a)


 Engineer : Ichiro Isozaki

Emission Level [dB μ V/m]☐ Horizontal☒ Vertical

70

60

50

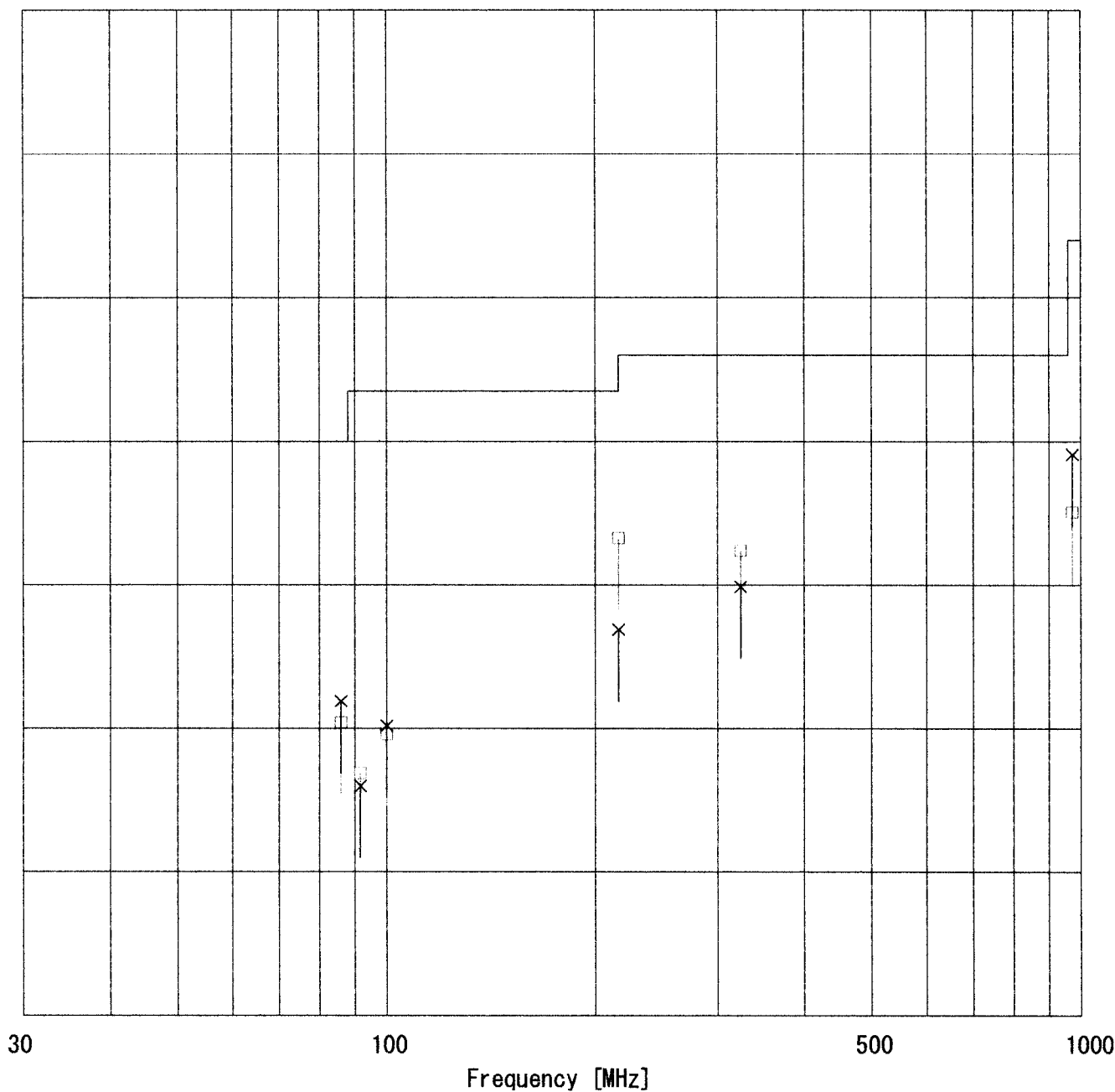
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DATA OF RADIATION TEST

A-PEX INTERNATIONAL CO., LTD.
Yamakita No.1 Open Test Site
Report No. : 22IE0009-KT-1

Applicant : ORION ELECTRIC CO., LTD.
Kind of Equipment : DVD/VCR
Model No. : HR-XVC1U
Serial No. :
Power : AC120V/60Hz
Mode : PLAY BACK MODE
Remarks : Test Channel #3
Date : 4/11/2002
Test Distance : 3 m
Temperature : 19 °C
Humidity : 68 %
Regulation : FCC Part15B § 15.109(a)


Engineer : Ichiro Isozaki

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.	61.25	BB	22.8	22.1	8.0	28.5	1.9	6.0	10.2	9.5	40.0	29.8	30.5
2.	65.75	BB	22.8	22.4	7.2	28.5	2.0	6.0	9.5	9.1	40.0	30.5	30.9
3.	122.50	BB	21.2	23.2	13.4	28.5	2.8	6.0	14.9	16.9	43.5	28.6	26.6
4.	245.00	BB	21.5	20.6	16.9	27.8	4.5	6.0	21.1	20.2	46.0	24.9	25.8

CALCULATION: READING[dB μV] + ANT. FACTOR[dB/m] + CABLE LOSS[dB] - AMP. GAIN[dB] + ATTEN[dB].

■ ANTENNA: KBA-01 (BBA9106) 30-299.99MHz/KLA-01 (USLP9143) 300-1000MHz

■ CABLE: KCC-10/11/12/13/18 ■ PREAMP: KAF-01 (8447D) ■ EMI RECEIVER: KTR-02 (ESCS30)

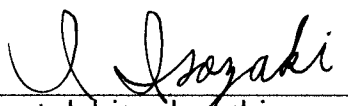
DATA OF RADIATION TEST

A-PEX INTERNATIONAL CO., LTD.

Yamakita No.1 Open Test Site

Report No. : 22IE0009-KT-1

Applicant : ORION ELECTRIC CO., LTD.
 Kind of Equipment : DVD/VCR
 Model No. : HR-XVC1U
 Serial No. :
 Power : AC120V/60Hz
 Mode : PLAY BACK MODE
 Remarks : Test Channel #3
 Date : 4/11/2002
 Test Distance : 3 m
 Temperature : 19 °C
 Humidity : 68 %
 Regulation : FCC Part15B § 15.109(a)


 Engineer : Ichiro Isozaki

Emission Level [dB μ V/m]☐ Horizontal☒ Vertical

70

60

50

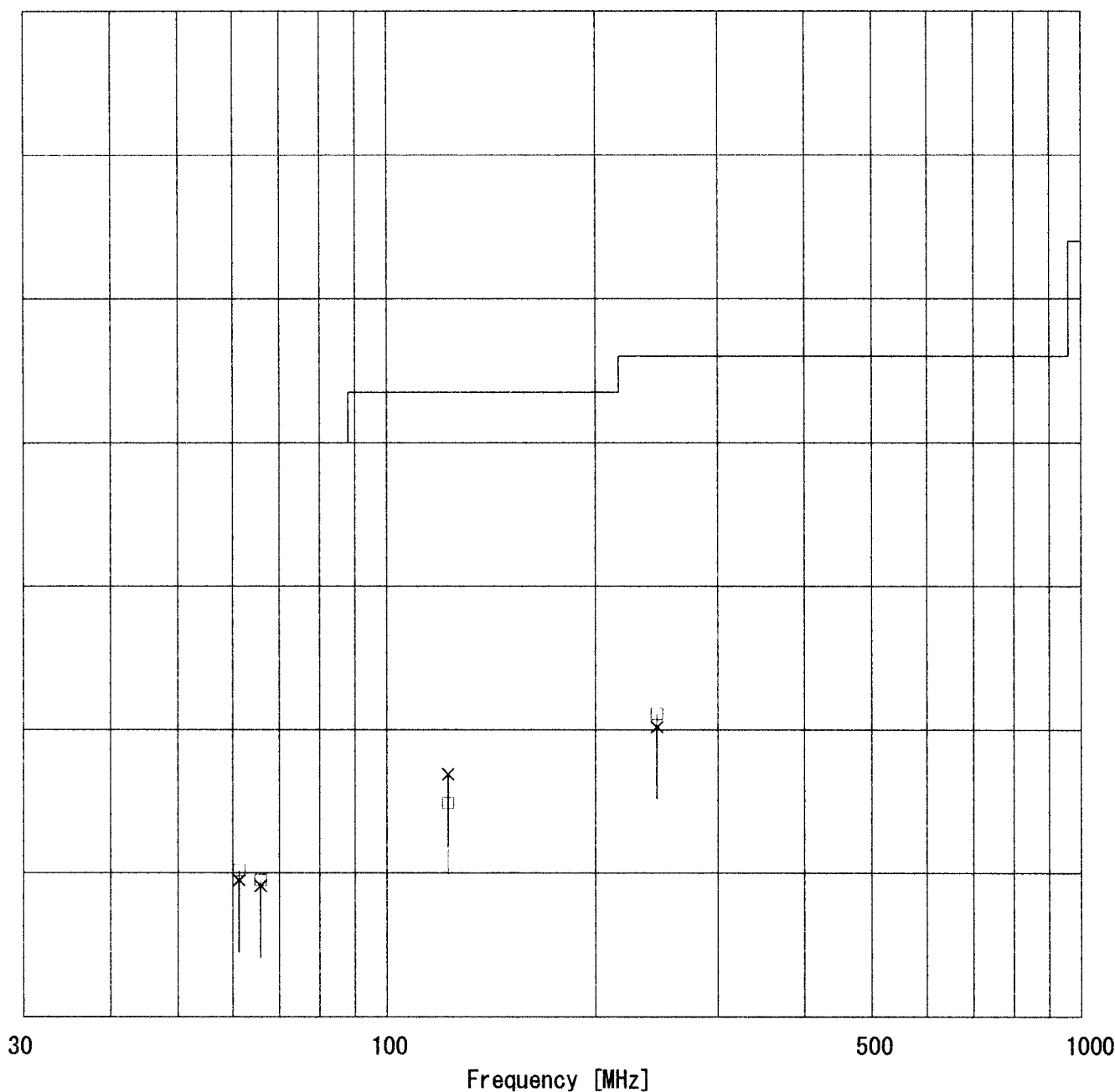
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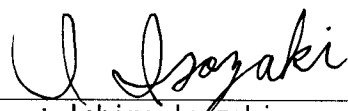
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DATA OF RADIATION TEST

A-PEX INTERNATIONAL CO., LTD.
Yamakita No.1 Open Test Site
Report No. : 221E0009-KT-1

Applicant : ORION ELECTRIC CO., LTD.
Kind of Equipment : DVD/VCR
Model No. : HR-XVC1U
Serial No. :
Power : AC120V/60Hz
Mode : PLAY BACK MODE
Remarks : Test Channel #4
Date : 4/11/2002
Test Distance : 3 m
Temperature : 19 °C
Humidity : 68 %
Regulation : FCC Part15B § 15.109(a)


Engineer : Ichiro Isozaki

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.	67.25	BB	23.5	22.9	6.9	28.5	2.0	6.0	9.9	9.3	40.0	30.1	30.7
2.	71.75	BB	23.3	22.5	6.4	28.5	2.1	6.0	9.3	8.5	40.0	30.7	31.5
3.	134.50	BB	20.8	21.0	14.0	28.5	2.9	6.0	15.2	15.4	43.5	28.3	28.1
4.	201.75	BB	20.4	20.1	16.7	28.2	3.7	6.0	18.6	18.3	43.5	24.9	25.2

CALCULATION: READING[dB μV] + ANT. FACTOR[dB/m] + CABLE LOSS[dB] - AMP. GAIN[dB] + ATTEN[dB].

■ ANTENNA: KBA-01 (BBA9106) 30-299.99MHz/KLA-01 (USLP9143) 300-1000MHz

■ CABLE: KCC-10/11/12/13/18 ■ PREAMP: KAF-01 (8447D) ■ EMI RECEIVER: KTR-02 (ESCS30)

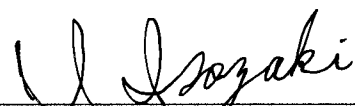
DATA OF RADIATION TEST

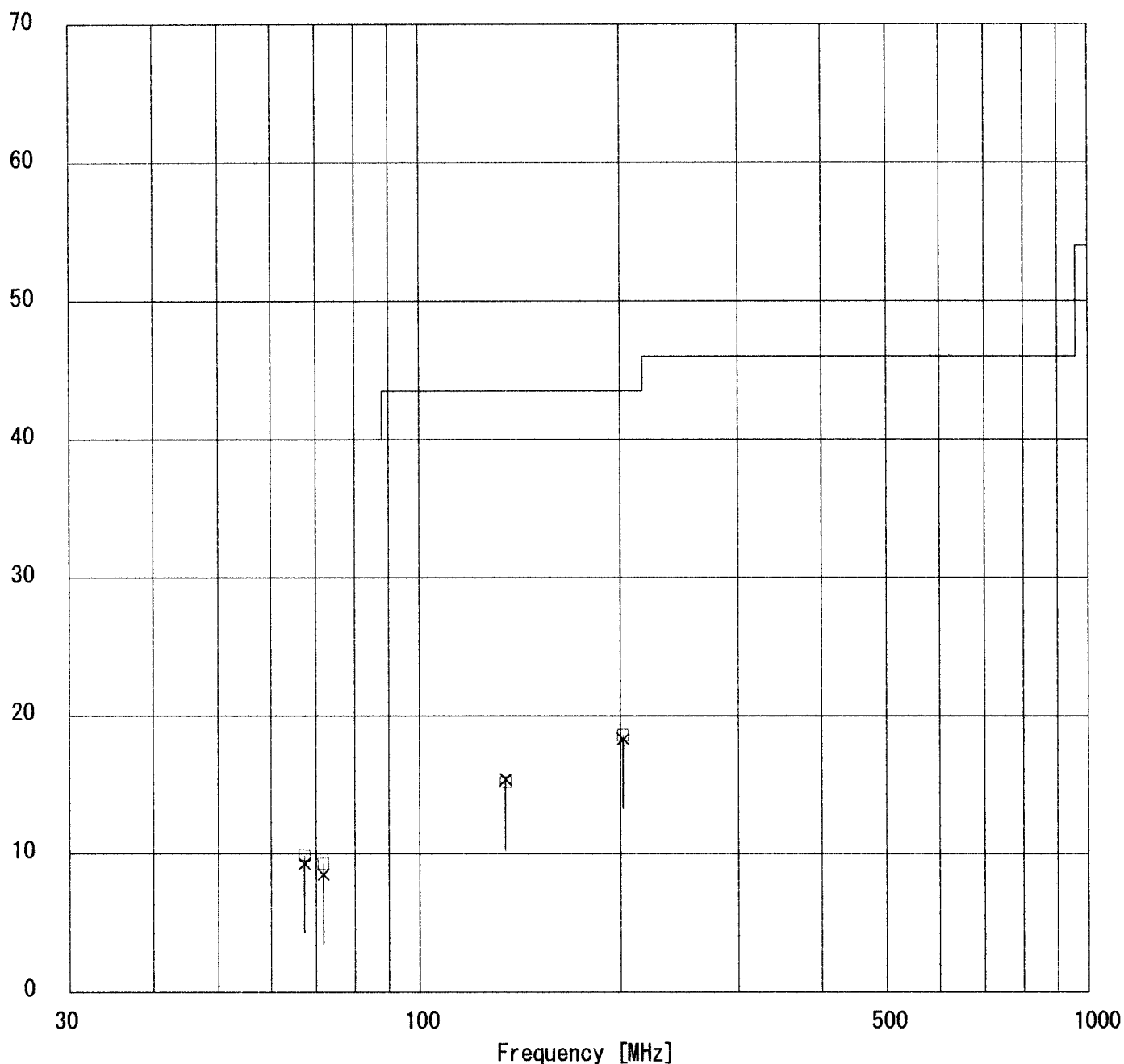
A-PEX INTERNATIONAL CO., LTD.

Yamakita No.1 Open Test Site

Report No. : 22IE0009-KT-1

Applicant : ORION ELECTRIC CO., LTD.
 Kind of Equipment : DVD/VCR
 Model No. : HR-XVC1U
 Serial No. :
 Power : AC120V/60Hz
 Mode : PLAY BACK MODE
 Remarks : Test Channel #4
 Date : 4/11/2002
 Test Distance : 3 m
 Temperature : 19 °C
 Humidity : 68 %
 Regulation : FCC Part15B § 15.109(a)


 Engineer : Ichiro Isozaki

Emission Level [dB μ V/m]☐ Horizontal☒ Vertical

DATA OF ANTENNA TERMINAL TEST

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

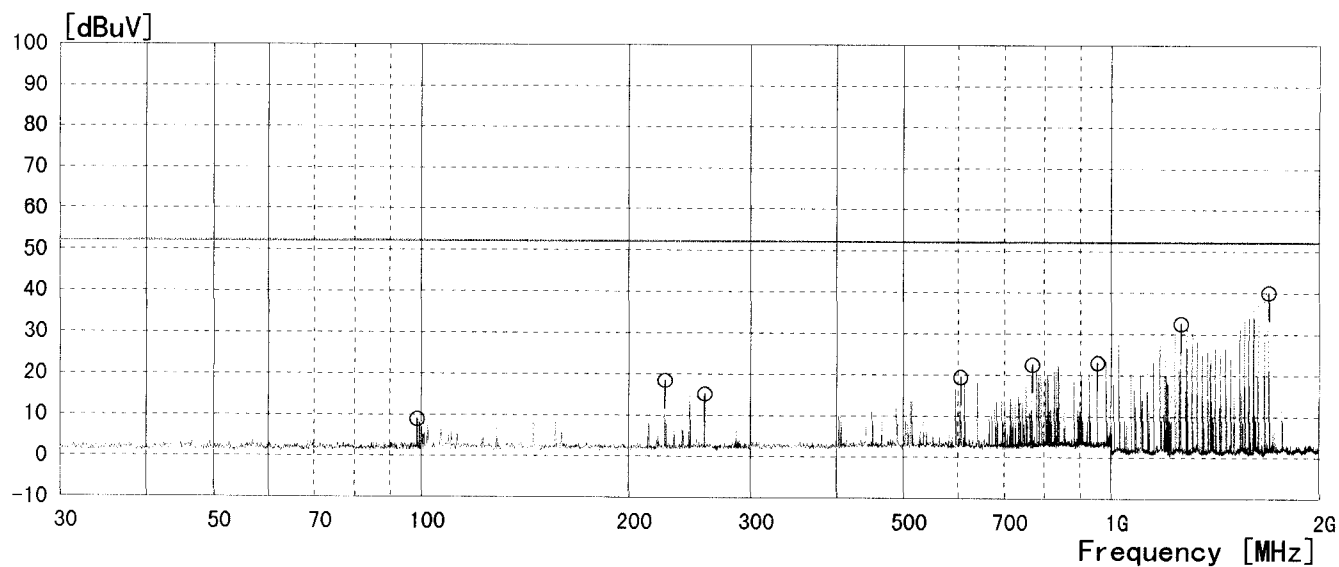
COMPANY : ORION ELECTRIC CO., LTD.
EQUIPEMENT : DVD/VCR
MODEL NAME : HR-XVC1U
OPERATION MODE : TUNING
PORT : ANTENNA TERMINAL
POWER : AC120V/60Hz
REMARKS : TV MODE

REPORT No. : 22IE0009-KT-1
DATE : APRIL 15, 2002
REGULATION : FCC PART15 SUBPART B
TEST NO. : 1

TEST ENGINEER: YOSHIYUKI ARAKAWA

No.	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN	
		QP	AV		QP	AV	QP	AV	QP	AV
		[dBuV]			[dBuV]		[dBuV]		[dB]	
1	98.800	30.1	----	-21.2	8.9	----	52.0	----	43.1	----
2	225.700	39.5	----	-21.1	18.3	----	52.0	----	33.7	----
3	257.700	36.2	----	-21.1	15.1	----	52.0	----	36.9	----
4	605.700	40.3	----	-21.0	19.3	----	52.0	----	32.7	----
5	769.000	43.2	----	-20.8	22.4	----	52.0	----	29.6	----
6	955.900	42.9	----	-20.0	22.9	----	52.0	----	29.1	----
7	1262.100	61.4	----	-29.0	32.4	----	52.0	----	19.6	----
8	1693.600	68.2	----	-28.2	40.0	----	52.0	----	12.0	----

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



DATA OF ANTENNA TERMINAL TEST

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

COMPANY : ORION ELECTRIC CO., LTD.
EQUIPEMENT : DVD/VCR
MODEL NAME : HR-XVC1U
OPERATION MODE : TUNING
PORT : ANTENNA TERMINAL
POWER : AC120V/60Hz
REMARKS : CATV MODE

REPORT No. : 22IE0009-KT-1
DATE : APRIL 15, 2002
REGULATION : FCC PART15 SUBPART B
TEST NO. : 2

Y. Arakawa
TEST ENGINEER: YOSHIYUKI ARAKAWA

No.	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN	
		QP	AV		QP	AV	QP	AV	QP	AV
		[dBuV]			[dBuV]		[dBuV]		[dB]	
1	99.900	29.8	----	-21.2	8.6	----	52.0	----	43.4	----
2	230.600	38.8	----	-21.1	17.7	----	52.0	----	34.3	----
3	255.400	39.3	----	-21.1	18.2	----	52.0	----	33.8	----
4	343.400	43.2	----	-21.0	22.2	----	52.0	----	29.8	----
5	399.400	43.1	----	-20.9	22.2	----	52.0	----	29.8	----
6	994.900	51.6	----	-19.9	31.8	----	52.0	----	20.2	----
7	1267.900	60.9	----	-29.0	31.9	----	52.0	----	20.1	----
8	1675.000	67.1	----	-28.3	38.8	----	52.0	----	13.2	----

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

