

DATA OF MAGNETIC FIELD TEST

A - P E X INTERNATIONAL CO., LTD.
YOKOWA NO.2 OPEN SITE

COMPANY : OMRON CORPORATION
 TRADE NAME : OMRON
 EQUIPMENT : ID READ/WRITE HEAD AMP
 MODEL : V700-HMC71
 POWER : DC5V
 DESCRIPTION : COMMUNICATION
 TEST DISTANCE : 3m

REPORT NO. : 17F0050-02
 REGULATION : FCC Part15 Suppart C
 REMARKS : 40dB
 DATE : 07/10/1998


 ENGINEER : OSAMU.WATATANI

No	FREQ [MHz]	READING [dB μ V]	ANT.F [dB]	CBL.LOSS [dB]	AMP.G [dB]	RESULT [dB μ V/m]	LIMITS [dB μ V/m]	MARGIN [dB]
1	0.1259	91.0	19.8	0.1	30.0	86.9	105.6	18.7
2	0.2497	75.2	19.8	0.1	30.0	71.1	99.7	28.6
3	0.3760	66.0	19.8	0.1	30.0	61.9	96.1	34.2
4	0.4996	54.5	19.8	0.1	30.0	50.4	73.6	23.2
5	0.6258	55.0	19.7	0.1	30.0	50.8	71.7	20.9
6	0.7506	47.9	19.7	0.1	30.0	43.7	70.1	26.4
7	0.8757	50.0	19.7	0.2	30.0	45.9	68.8	22.9
8	0.9997	49.6	19.7	0.2	30.0	45.5	67.6	22.1
9	1.1254	45.8	19.7	0.2	30.0	41.7	66.6	24.9
10	1.2502	44.7	19.7	0.2	30.0	40.6	65.7	25.1

RESULT = READING + ANT.F + CBL LOSS - AMP.G + ATT(6dB)

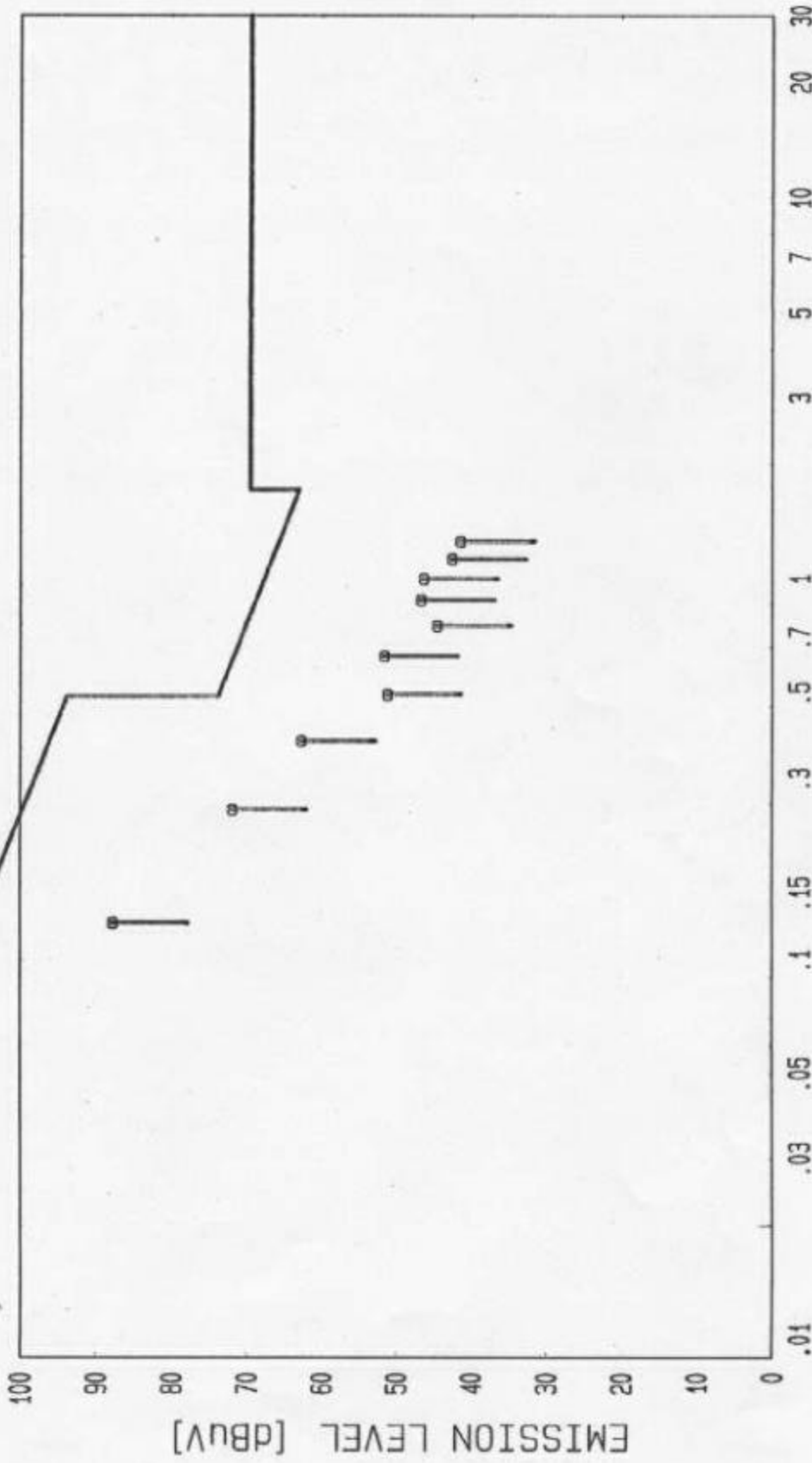
Except for the above table : more than 10dB below the limits.

MAGNETIC FIELD TEST

A-PEX INTERNATIONAL CO., LTD.
YOKOHA NO.2 OPEN SITE

COMPANY : OMRON CORPORATION
TRADE NAME : OMRON
EQUIPMENT : ID READ/WRITE HEAD AMP
MODEL : V700-HMC71
POWER : DC5V
DESCRIPTION : COMMUNICATION
TEST DISTANCE : 3m

REPORT No. : 17F0050-02
REGULATION : FCC Part15 Support C
REMARKS : 40dB
DATE : 07/10/1998
FCC ID :
ENGINEER : *R. Watatani*
OSAMU. WATATANI



DATA OF MAGNETIC FIELD TEST

A - P E X INTERNATIONAL CO., LTD.
 YOKOHA NO.2 OPEN SITE

COMPANY : OMRON CORPORATION
 TRADE NAME : OMRON
 EQUIPMENT : ID READ/WRITE HEAD AMP
 MODEL : V700-HMC73
 POWER : DC5V
 DESCRIPTION : COMMUNICATION
 TEST DISTANCE : 3m

REPORT NO. : 17F0050-02
 REGULATION : FCC Part15 Support C
 REMARKS : 40dB
 DATE : 07/10/1998


 ENGINEER : OSAMU.WATATANI

No	FREQ [MHz]	READING [dB μ V]	ANT.F [dB]	CBL.LOSS [dB]	AMP.G [dB]	RESULT [dB μ V/m]	LIMITS [dB μ V/m]	MARGIN [dB]
1	0.1250	80.1	19.8	0.1	30.0	76.0	105.7	29.7
2	0.2506	76.4	19.8	0.1	30.0	72.3	99.6	27.3
3	0.3706	61.0	19.8	0.1	30.0	56.9	96.2	39.3
4	0.4991	53.3	19.8	0.1	30.0	49.2	73.6	24.4
5	0.6254	46.2	19.7	0.1	30.0	42.0	71.7	29.7
6	0.7492	41.2	19.7	0.1	30.0	37.0	70.1	33.1
7	0.8757	42.3	19.7	0.2	30.0	38.2	68.8	30.6
8	1.0003	49.8	19.7	0.2	30.0	45.7	67.6	21.9
9	1.1255	39.3	19.7	0.2	30.0	35.2	66.6	31.4
10	1.2504	34.2	19.7	0.2	30.0	30.1	65.7	35.6

RESULT = READING + ANT.F + CBL LOSS - AMP.G + ATT(6dB)

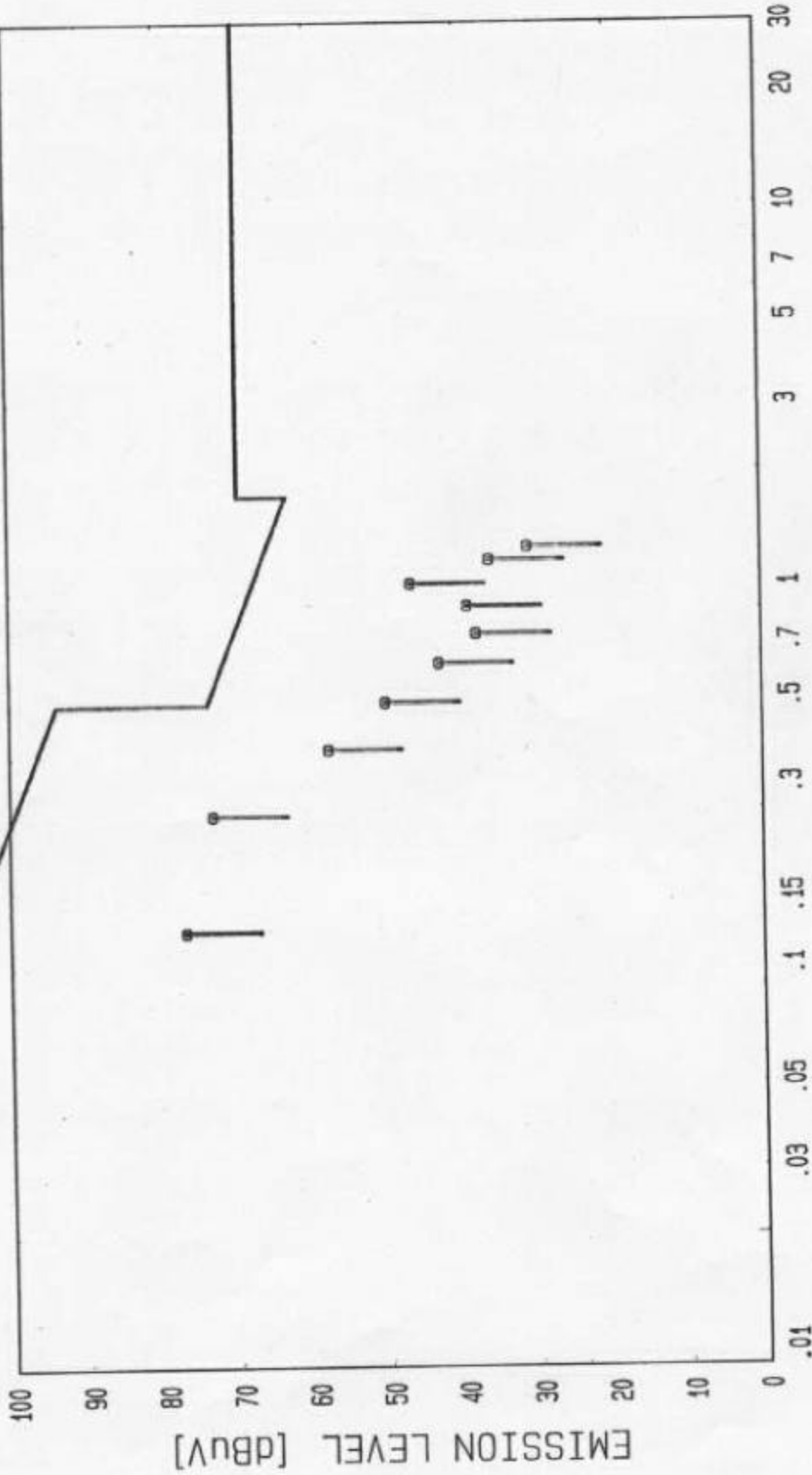
Except for the above table : more than 10dB below the limits.

MAGNETIC FIELD TEST

A-PEX INTERNATIONAL CO., LTD.
YOKOMA NO.2 OPEN SITE

COMPANY : OMRON CORPORATION
 TRADE NAME : OMRON
 EQUIPMENT : ID READ/WRITE HEAD AMP
 MODEL : V700-HMC73
 POWER : DC5V
 DESCRIPTION : COMMUNICATION
 TEST DISTANCE : 3m

REPORT No. : 17F0050-02
 REGULATION : FCC Part15 Support C
 REMARKS : 40dB
 DATE : 07/10/1998
 FCC ID : *S. Watahara*
 ENGINEER : OSAMU.WATATANI



DATA OF MAGNETIC FIELD TESTA - P E X INTERNATIONAL CO., LTD.
YOKOWA NO.2 OPEN SITE

COMPANY : OMRON CORPORATION
 TRADE NAME : OMRON
 EQUIPMENT : ID READ/WRITE HEAD AMP
 MODEL : V700-HMD11
 POWER : DC5V
 DESCRIPTION : COMMUNICATION
 TEST DISTANCE : 3m

REPORT NO. : 17F0050-02
 REGULATION : FCC Part15 Support C
 REMARKS : 40dB
 DATE : 07/10/1998


 ENGINEER : OSAMU.WATATANI

No	FREQ [MHz]	READING [dB μ V]	ANT.F [dB]	CBL.LOSS [dB]	AMP.G [dB]	RESULT [dB μ V/m]	LIMITS [dB μ V/m]	MARGIN [dB]
1	0.1256	74.3	19.8	0.1	30.0	70.2	105.6	35.4
2	0.2495	74.0	19.8	0.1	30.0	69.9	99.7	29.8
3	0.3753	62.8	19.8	0.1	30.0	58.7	96.1	37.4
4	0.5004	52.5	19.8	0.1	30.0	48.4	73.6	25.2
5	0.6256	46.9	19.7	0.1	30.0	42.7	71.7	29.0
6	0.7490	46.0	19.7	0.1	30.0	41.8	70.1	28.3
7	0.8757	41.0	19.7	0.2	30.0	36.9	68.8	31.9
8	1.0001	48.4	19.7	0.2	30.0	44.3	67.6	23.3
9	1.1257	33.5	19.7	0.2	30.0	29.4	66.6	37.2
10	1.2505	32.2	19.7	0.2	30.0	28.1	65.7	37.6

RESULT = READING + ANT.F + CBL LOSS - AMP.G + ATT(6dB)

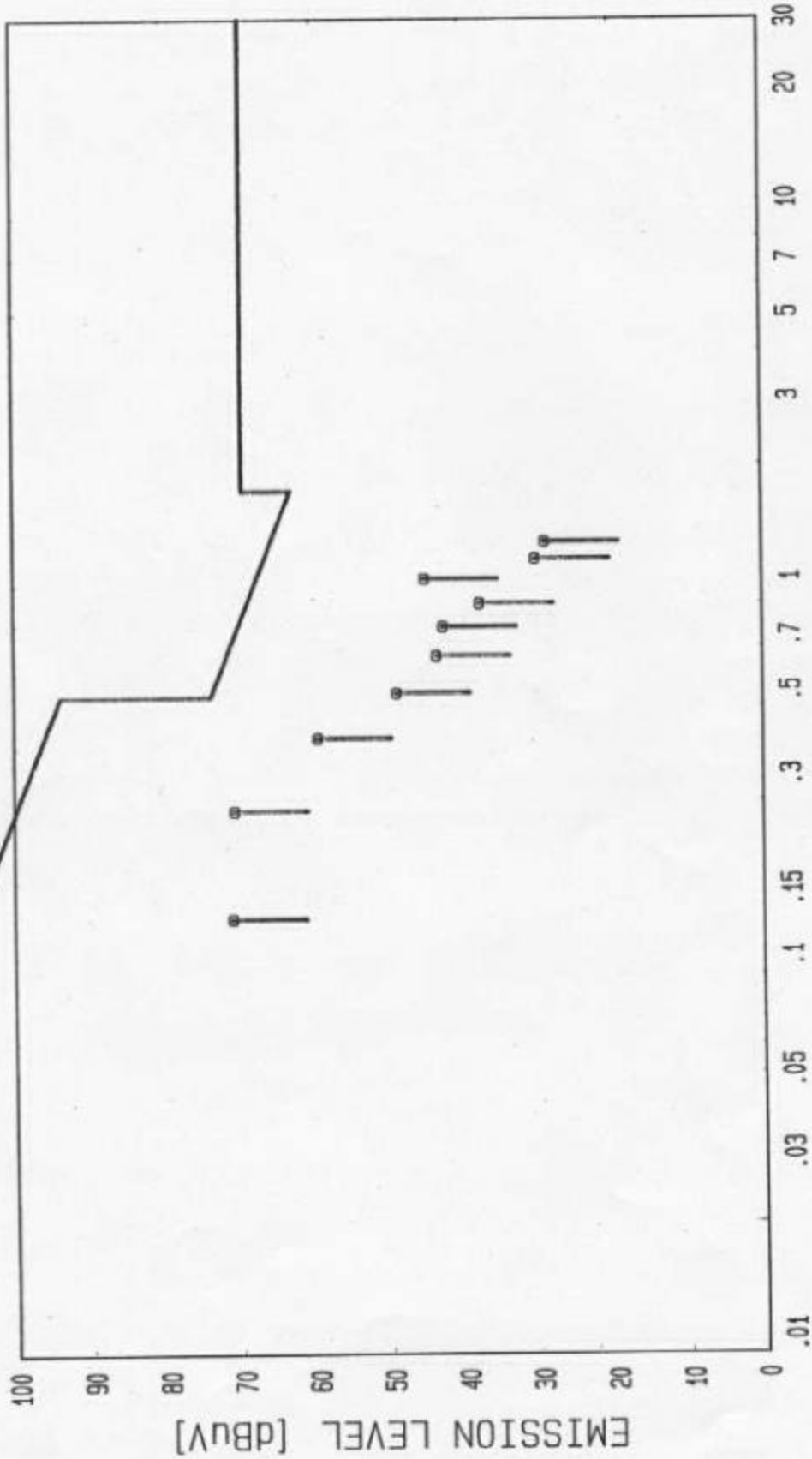
Except for the above table : more than 10dB below the limits.

MAGNETIC FIELD TEST

A-PEX INTERNATIONAL CORP. LTD.
YOKOMA NO.2 OPEN SITE

COMPANY : OMRON CORPORATION
TRADE NAME : OMRON
EQUIPMENT : ID READ/WRITE HEAD AMP
MODEL : V700-HMD11
POWER : DCSV
DESCRIPTION : COMMUNICATION
TEST DISTANCE : 3m

REPORT No. : 17F0050-02
REGULATION : FCC Part15 Support C
REMARKS : 40dB
DATE : 07/10/1998
FCC ID :
ENGINEER : *O. Matatani*
OSAMU MATATANI

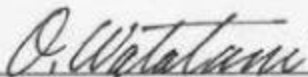


DATA OF RADIATION TEST

A - P E X INTERNATIONAL CO., LTD.
YOKOWA NO.2 OPEN SITE

COMPANY : OMRON CORPORATION
 TRADE NAME : OMRON
 EQUIPMENT : READ WRITE MODULE
 MODEL : V700-HMC71
 POWER : DC5V
 DESCRIPTION : RUNNING
 REMARKS : COMMUNICATION
 DATE : 07/10/1998

REPORT NO. : 17F0050-02
 REGULATION : FCC Part 15 Subpart B
 CLASS : CLASS B
 TEST DISTANCE : 3m
 ATTENUATOR : 6dB
 FCC ID :


 ENGINEER : OSAMU.WATATANI

No	FREQ [MHz]	ANT TYPE	READING		ANT FACTOR [dB]	CABLE LOSS [dB]	AMP GAIN [dB]	RESULT		FCC LIMITS [dB μ V/m] 3m	MARGIN	
			HOR [dB μ V] 3m	VER				HOR [dB μ V/m] 3m	VER		HOR [dB]	VER
1	32.24	BC	27.5	36.9	17.0	2.3	29.6	23.2	32.6	40.0	16.8	7.4
2	59.56	BC	39.0	45.9	7.8	2.8	29.6	26.0	32.9	40.0	14.0	7.1
3	73.07	BC	31.4	41.1	5.3	3.0	29.6	16.1	25.8	40.0	23.9	14.2
4	100.00	BC	25.1	34.7	9.1	3.5	29.6	14.1	23.7	43.5	29.4	19.8
5	120.91	BC	30.5	32.2	11.9	3.7	29.6	22.5	24.2	43.5	21.0	19.3
6	142.55	BC	33.9	30.9	13.9	4.0	29.5	28.3	25.3	43.5	15.2	18.2
7	171.23	LP	28.1	30.2	15.7	4.5	29.5	24.8	26.9	43.5	18.7	16.6
8	304.00	LP	22.8	22.7	13.6	6.0	29.5	18.9	18.8	46.0	27.1	27.2

SAMPLE CALCULATION :

RESULT = READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.

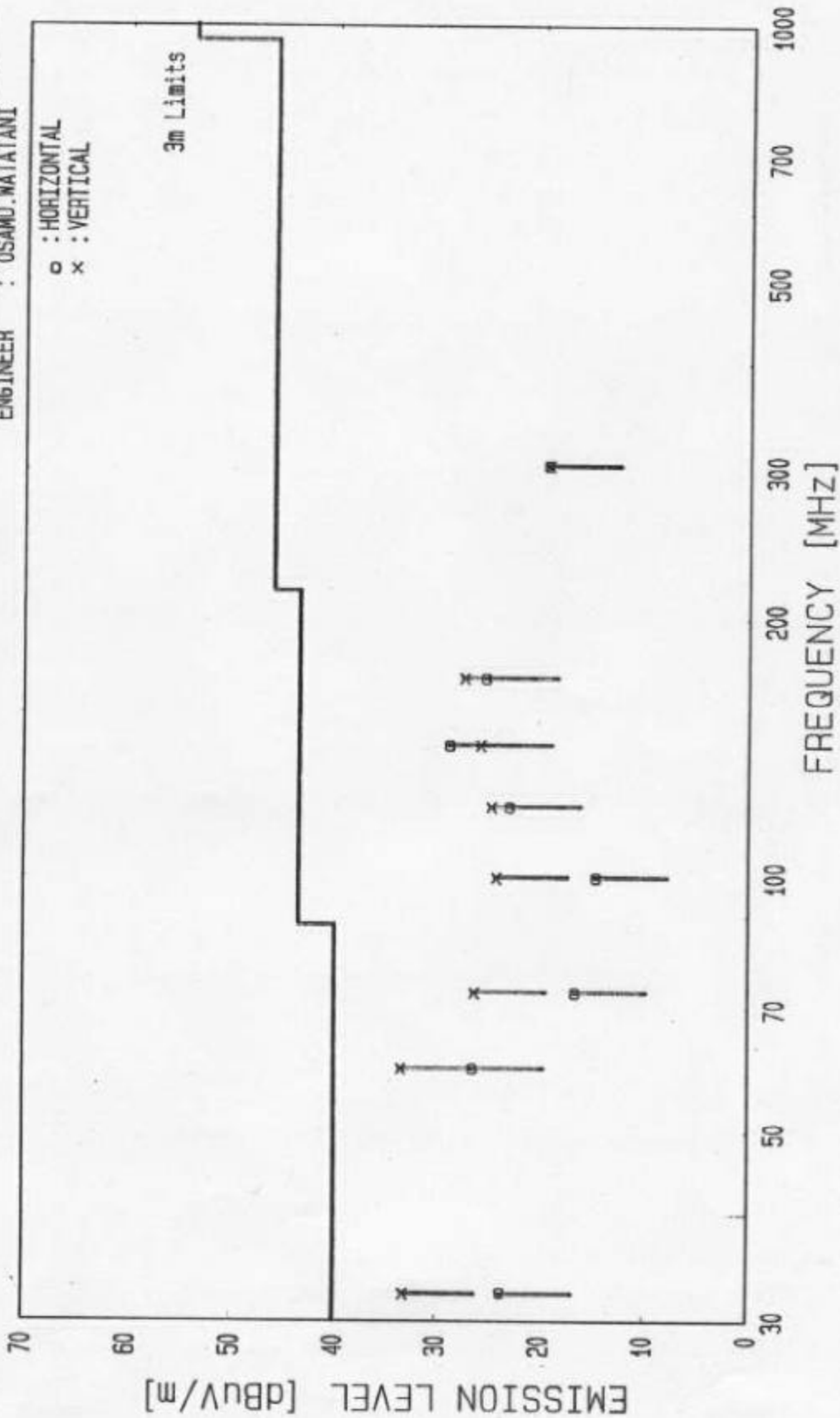
Except for the above table : adequate margin data below the limits.

RADIATION TEST

A-PEX INTERNATIONAL CO., LTD.
YOKOHA NO.2 OPEN SITE

COMPANY : OMRON CORPORATION
TRADE NAME : OMRON
EQUIPMENT : HEAD WRITE MODULE
MODEL : V700-HMC71
POWER : DC5V
DESCRIPTION : RUNNING
REMARKS : COMMUNICATION

REPORT No. : 17F0050-02
DATE : 07/10/1998
REGULATION : FCC Part 15 Subpart B
CLASS : CLASS B
DISTANCE : 3m
FCC ID :
ENGINEER : *S. Watatani*
OSAMU WATATANI



DATA OF RADIATION TEST

A - P E X INTERNATIONAL CO., LTD.
YOKOWA NO.2 OPEN SITE

COMPANY : OMRON CORPORATION
 TRADE NAME : OMRON
 EQUIPMENT : READ WRITE MODULE
 MODEL : V700-HMC73
 POWER : DC5V
 DESCRIPTION : RUNNING
 REMARKS : COMMUNICATION
 DATE : 07/10/1998

REPORT NO. : 17F0050-02
 REGULATION : FCC Part 15 Subpart B
 CLASS : CLASS B
 TEST DISTANCE : 3m
 ATTENUATOR : 6dB
 FCC ID :

O. Watatani
 ENGINEER : OSAMU.WATATANI

No	FREQ [MHz]	ANT TYPE	READING		ANT FACTOR [dB]	CABLE LOSS [dB]	AMP GAIN [dB]	RESULT		FCC LIMITS [dB μ V/m] 3m	MARGIN	
			HOR [dB μ V] 3m	VER [dB μ V] 3m				HOR [dB μ V/m] 3m	VER [dB μ V/m] 3m		HOR [dB]	VER [dB]
1	32.27	BC	25.2	33.5	17.0	2.3	29.6	20.9	29.2	40.0	19.1	10.8
2	61.01	BC	29.7	36.8	7.4	2.9	29.6	16.4	23.5	40.0	23.6	16.5
3	76.00	BC	40.6	48.1	5.5	3.1	29.6	25.6	33.1	40.0	14.4	6.9
4	120.92	BC	30.3	33.3	11.9	3.7	29.6	22.3	25.3	43.5	21.2	18.2
5	134.63	BC	35.9	29.7	13.2	4.0	29.6	29.5	23.3	43.5	14.0	20.2
6	171.25	BC	25.8	29.1	15.7	4.5	29.5	22.5	25.8	43.5	21.0	17.7
7	304.19	LP	28.1	28.8	13.6	6.0	29.5	24.2	24.9	46.0	21.8	21.1

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

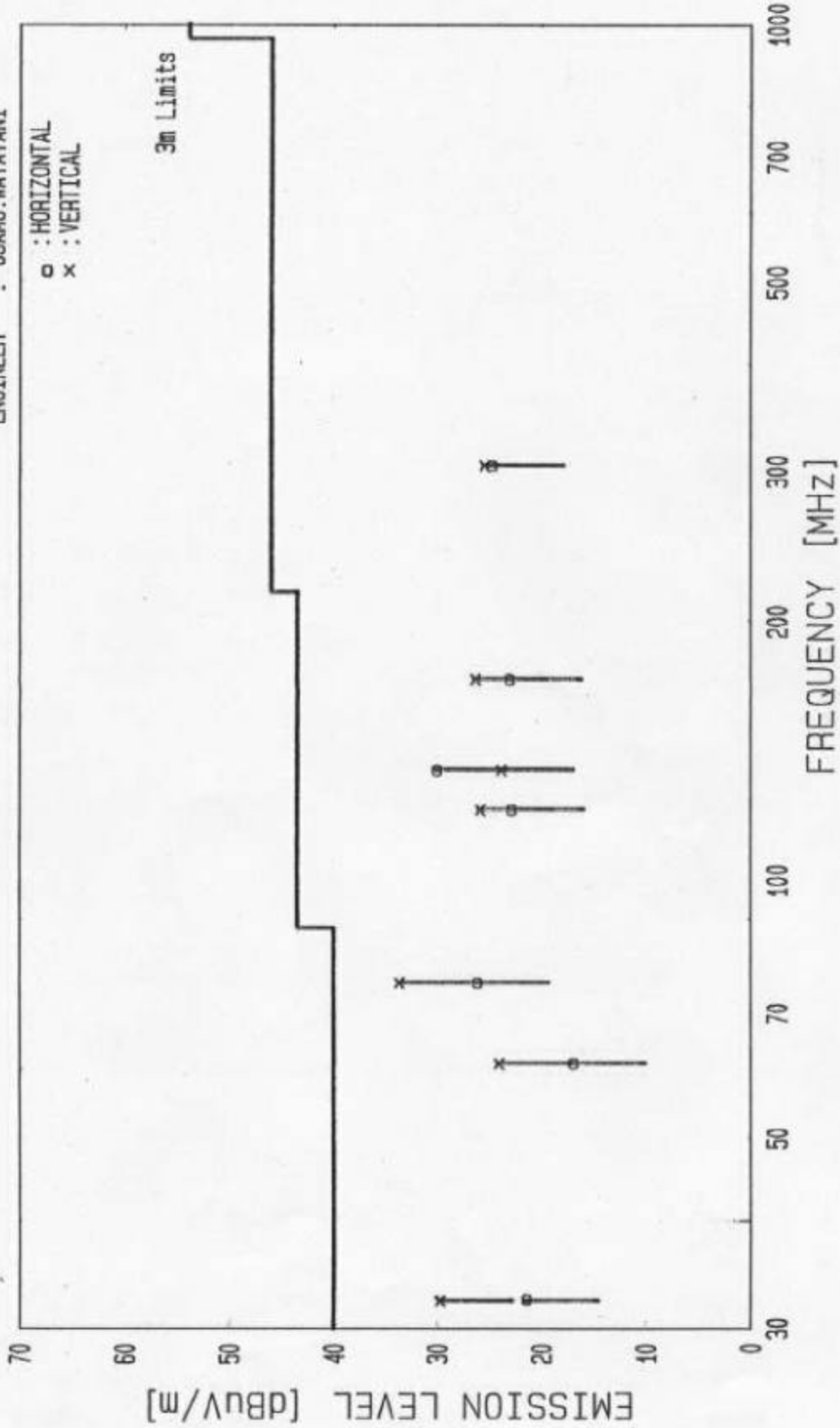
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RADIATION TEST

A-PEX INTERNATIONAL CO., LTD.
YOKOMA NO.2 OPEN SITE

COMPANY : OMRON CORPORATION
TRADE NAME : OMRON
EQUIPMENT : READ WRITE MODULE
MODEL : V700-HMC73
POWER : DC5V
DESCRIPTION : RUNNING
REMARKS : COMMUNICATION

REPORT No. : 17F0050-02
DATE : 07/10/1998
REGULATION : FCC Part 15 Subpart B
CLASS : CLASS B
DISTANCE : 3m
FCC ID : *Osamu Matatani*
ENGINEER : OSAMU MATATANI



DATA OF RADIATION TEST

A - P E X INTERNATIONAL CO., LTD.
YOKOWA NO.2 OPEN SITE

COMPANY : OMRON CORPORATION
 TRADE NAME : OMRON
 EQUIPMENT : READ WRITE MODULE
 MODEL : V700-HMD11
 POWER : DC5V
 DESCRIPTION : RUNNING
 REMARKS : COMMUNICATION
 DATE : 07/10/1998

REPORT NO. : 17F0050-02
 REGULATION : FCC Part 15 Subpart B
 CLASS : CLASS B
 TEST DISTANCE : 3m
 ATTENUATOR : 6dB
 FCC ID :

O. Watatani
 ENGINEER : OSAMU.WATATANI

No	FREQ [MHz]	ANT TYPE	READING		ANT FACTOR [dB]	CABLE LOSS [dB]	AMP GAIN [dB]	RESULT		FCC LIMITS [dB μ V/m] 3m	MARGIN	
			HOR [dB μ V] 3m	VER				HOR [dB μ V/m] 3m	VER		HOR [dB]	VER
1	32.35	BC	25.1	30.6	17.0	2.3	29.6	20.8	26.3	40.0	19.2	13.7
2	59.14	BC	27.5	37.2	8.0	2.8	29.6	14.7	24.4	40.0	25.3	15.6
3	74.99	BC	33.9	42.9	5.3	3.0	29.6	18.6	27.6	40.0	21.4	12.4
4	98.12	BC	24.7	28.4	8.9	3.4	29.6	13.4	17.1	43.5	30.1	26.4
5	113.24	BC	25.2	32.4	11.1	3.7	29.6	16.4	23.6	43.5	27.1	19.9
6	150.46	BC	31.0	25.1	14.5	4.4	29.5	26.4	20.5	43.5	17.1	23.0
7	304.19	LP	28.7	27.6	13.6	6.0	29.5	24.8	23.7	46.0	21.2	22.3

SAMPLE CALCULATION :

RESULT = READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.

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

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A-PEX INTERNATIONAL CO., LTD.
YOKOMA NO.2 OPEN SITE

COMPANY : OMRON CORPORATION
 TRADE NAME : OMRON
 EQUIPMENT : READ WRITE MODULE
 MODEL : V700-HMD11
 POWER : DC5V
 DESCRIPTION : RUNNING
 REMARKS : COMMUNICATION

REPORT No. : 17F0050-02
 DATE : 07/10/1998
 REGULATION : FCC Part 15 Subpart B
 CLASS : CLASS B
 DISTANCE : 3m
 FCC ID : *Osamumatani*

ENGINEER : OSAMU.MATATANI

