

TOSHIBA

TOSHIBA HOKUTO ELECTRONICS CORPORATION

MAGNETRON ENGINEERING GROUP

1975, 23-CHOME MINAMI 5-JODORI, ASAHIKAWA, HOKKAIDO 078-8335, JAPAN

PHONE : (0166) 31-4728 FACSIMILE : (0166) 31-4739

Mr. R. Kanemitsu
Manager
Overseas Department
Nissin Industry Co., Ltd.
3-2-11, Shibukawa-cho,
Higashi Osaka City
Japan

October 15, 2002
(Ref. No. : 02-127)

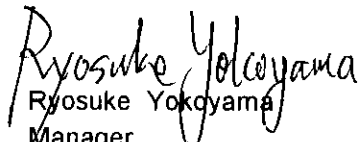
Re : Electromagnetic radiation and terminal disturbance voltage in your model EM-S1100 microwave oven with Toshiba magnetron 2M248H(IF)-Z

Dear Mr. Kanemitsu

We are enclosing herewith the above mentioned test results based on CISPR-11(1990) measuring method in our measuring facility.

Please feel free to contact us, if you have any question or request.

Sincerely yours,


Ryoosuke Yokoyama
Manager
Magnetron engineering group

RY/oh

Harmonic radiation and terminal disturbance voltage test

The following measurement were conducted in Toshiba Hokuto Electronics Corporation measurement facility.

Date : October 10, 2002
Oven : EM-S1100
Tube : 2M248H(IF)-Z
Line : 120V/60Hz

1. Harmonic radiation measurements

- 1.1 Measurement facility
Spectrum analyzer : Hewlett packard (8562A)
RF amplifier : Avantek (AWT-18047)
Antenna : Spc electronics (5C401A)

1.2 Measurement results

Unit : dBpW

Item	Antenna polarizatuion	
	Vertical	Horizontal
Harmonic radiation	54.4	52.5
EN55011 Limit	57	

Frequency range : 11,700-12,700MHz

2. Terminal disturbance voltage measurement

- 2.1 Measurement facility
EMI test receiver : Rohde & schwarz (ESHS30)
Artificial mains network : Kyoritu (KNW-242)

- 2.2 Measurement results
Attached please find "Terminal disturbance voltage" (Fig.1).

Fig. 1 TERMINAL DISTURBANCE VOLTAGE (0.16 to 30 MHz)

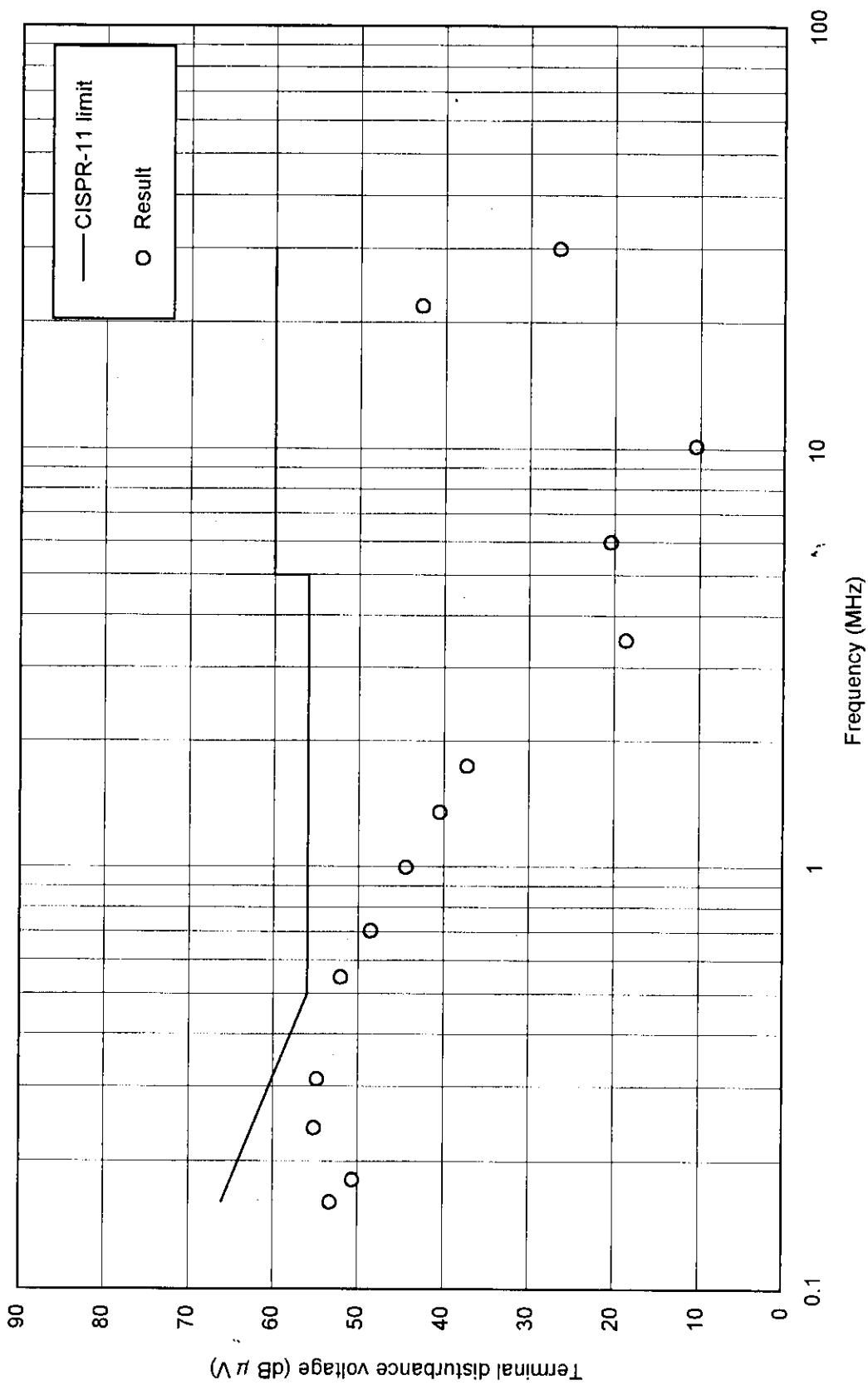
Date : October 11, 2002

Oven : EM-S1100

Tube : 2M248H(IF)-Z

Line : 120V/60Hz

Load : 250ml water in 500ml Pyrex beaker



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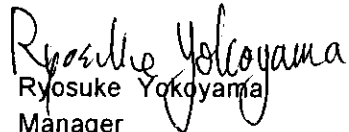
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1.2 Measurement results

Unit : dBpW

Item	Antenna polarizatuion	
	Vertical	Horizontal
Harmonic radiation	44.7	46.0
EN55011 Limit	57	

Frequency range : 11,700-12,700MHz

2. Terminal disturbance voltage measurement

2.1 Measurement facility

EMI test receiver : Rohde & schwarz (ESHS30)
Artificial mains network : Kyoritu (KNW-242)

2.2 Measurement results

Attached please find "Terminal disturbance voltage" (Fig.1).

Fig. 1

TERMINAL DISTURBANCE VOLTAGE (0.16 to 30 MHz)

Date : October 11, 2002

Oven : EM-E1100

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Load : 250ml water in 500ml Pyrex beaker

