**MATSUSHITA－KOTOBUKI ELECTRONICS INDUSTRIES LTD.**
VIDEO DEVELLOPMENT CENTER
ADDRESS: 〒793 247 FUKUTAKE, SAIJO, EHIME, JAPAN
TELEPHONE 0897-56-1111 FAX 0897-56-8142

REPORT OF MEASUREMENTS (Part I) Date: Sept. 18, 1998
REQUIRED IN ( X )SUBPART B(TV INTERFACE DEVICE)
( ) ( )

EXHIBIT #: 3
FCC ID : ACJ927122AH
Our Ref. : MKS98 F016
Model No. : PV-9450
Sheet 1 of 15 Sheets

Name of Manufacturer: Matsushita Kotobuki Electronics Industries Ltd.

Address of Manufacturer: 247 Fukutake, Saijo, Ehime, Japan

Device Under Measurement
FCC ID : ACJ927122AH
Model No. : PV-9450
Trade Name : Panasonic
Applicant : Matsushita Electric Ind. Co., Ltd.
This device is a representative model of KG-19HG chassis group.

Data Also Applied To

| FCC ID | Model No.(Trade Name) |
|---|---|
| | |
| | |
| | |

Device Description
Name of Device : ( X )Video Cassette Recorder, ( )Tuner Adapter
Frequency : VHF 3 or 4 Ch.
Video Line Terminals: ( X )Provided, ( )Not Provided
Accessories : RF Out Cable (0.9 m),
Video/Audio out Cable (1.5 m)

Certification
On the basis of the measurement data contained in Part II, all devices bearing the afore mentioned FCC ID (model No.. chassis No.. and trade names) are stated by the undersigned to be capable of complying with the applicable sections of Part 15 of the FCC rules governing restricted radiation devices at the time of manufacture and may be expected to continue to comply under normal conditions and with usual maintenance. The undersigned also states that the device measured was an engineering prototype, pre production, or production unit. If changes are applied to future units and such changes adversely alter spurious radiation, an amended report of measurements will be supplied to the FCC.

K. Ishikawa
Sr. Engineer

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1)15.107 Power Line Conducted Voltage

| Freq. (MHz) | Limits (dBuV) | Interference (dBuV) 1-end & Grounded | The other-end & Gro. |
|---|---|---|---|
| 0.16 | 18 | 30.6 | 31.0 |
| 0.50 | 18 | 30.0 | 32.6 |
| 2.69 | 18 | 30.1 | 31.6 |
| 3.49 | 18 | 28.3 | 28.4 |
| 3.96 | 18 | 28.5 | 27.8 |
| 14.32 | 18 | 18.6 | 26.7 |

(Refer to Sheet 3,10,12 of 15 Sheets)

2)15.109 Radiated Emission(Including Tuner)

| Freq. (MHz) | Limits (dBuV/m) | Emission (dBuV/m) Horiz. | Vert. |
|---|---|---|---|
| 53.69 | 40.0 | 22.5 | 20.0 |
| 57.27 | 40.0 | 21.5 | 18.6 |
| 143.18 | 43.5 | 26.4 | 21.5 |
| 178.98 | 43.5 | 26.6 | 25.0 |
| 107.00 | 46.0 | 40.1 | 38.4 |
| 1231.00 | 54.0 | 11.8 | 47.2 |

(Refer to Sheet 4,5,11,13,14,15 of 15 Sheets)
Note: Without Laurel Antenna
With accessories

3) 15.111 Antenna Power Conducted Voltage

| Freq. (MHz) | Limits (dBuV) | Conducted Voltage (dBuV) |
|---|---|---|
| 358.0 | 51.8 | 43.0 |
| 370.0 | 51.8 | 44.0 |
| 382.0 | 51.8 | 44.5 |
| 391.0 | 51.8 | 44.1 |
| 106.0 | 51.8 | 43.9 |
| 118.0 | 51.8 | 43.5 |

( Refer to Sheet 6 of 15 Sheets)

4) 15.115(b)(1) Output Signal Level

| Ch | Limits (dBuV) Visual | Aural | Level (dBuV) Visual | Aural |
|---|---|---|---|---|
| 3 | 69.5 | 56.5 | 65.9 | 50.7 |
| 1 | 69.5 | 56.5 | 65.4 | 50.9 |

(Refer to Sheet 7 of 15 Sheets)

5) 15.115(b)(2) Output Terminal Conducted Interference

| Ch | Freq. (MHz) | Limits (dBuV) | Interference (dBuV) |
|---|---|---|---|
| 3 | 43.25 | 39.5 | 25.4 |
| | 50.51 | 39.5 | 33.4 |
| | 71.47 | 39.5 | 31.5 |
| | 79.25 | 39.5 | 22.6 |
| | 122.50 | 39.5 | 24.5 |
| | 127.00 | 39.5 | 22.8 |
| 1 | 19.25 | 39.5 | 26.1 |
| | 56.51 | 39.5 | 33.7 |
| | 77.92 | 39.5 | 31.5 |
| | 130.00 | 39.5 | 25.5 |
| | 134.50 | 39.5 | 34.4 |
| | 139.00 | 39.5 | 25.7 |

(Refer to Sheet 8 of 15 Sheets)

6) 15.115 . Transfer SW Isolation

| Ch | Limits (dBuV) | Level (dBuV) |
|---|---|---|
| 3 | 9.5 | <3.9 |
| 1 | 9.5 | 4.5 |

(Refer to Sheet 9 of 15 Sheets)

MEASUERMENT SITE : MKS Site
MEASUERMENT PROCEDURE : ANSI C63.4 1992

Note:(1) Detailed report: Refer to attached sheets.

I HEREBY STATE THAT: The measurements shown in Part II of this form were made in accordance with the procedures indicated and the energy emitted by this equipment was found to be within the limits applicable. I assume full responsibility for the accuracy and completeness of these measurements and vouch for the qualifications of all persons taking them.

I FURTHER STATE THAT: On the basis of the measurements made, the device tested is capable of operation in compliance with the requirements of Part 15 of the FCC Rules under normal use and maintenance.

T. Watanabe
Engineer

1) 15.107 Power Line Conducted Voltage

| Video Signal | Freq. (MHz) | Meter Read. (dBuV) 1-end & Gro. | Meter Read. (dBuV) The other-End&Gro. | LISN Factor (dB) | Matching Pad Loss (Db) | Interference (dBuV) 1-end & Gro. | Interference (dBuV) The other-End &Gro. |
|---|---|---|---|---|---|---|---|
| Multi Burst 1 V p-p | 0.46 | 24.1 | 24.4 | 0.1 | 6.2 | 30.4 | 30.7 |
| | 0.50 | 23.5 | 25.1 | 0.1 | 6.2 | 29.8 | 31.4 |
| | 2.69 | 23.6 | 23.9 | 0.3 | 6.2 | 30.1 | 30.4 |
| | 3.49 | 21.8 | 21.6 | 0.3 | 6.2 | 28.3 | 28.1 |
| | 3.96 | 21.5 | 20.9 | 0.3 | 6.2 | 28.0 | 27.4 |
| | 14.32 | 14.6 | 19.7 | 0.6 | 6.2 | 21.4 | 26.5 |
| Multi Burst 5 V p-p | 0.46 | 24.3 | 24.7 | 0.1 | 6.2 | 30.6 | 31.0 |
| | 0.50 | 23.7 | 26.3 | 0.1 | 6.2 | 30.0 | 32.6 |
| | 2.69 | 23.9 | 25.1 | 0.3 | 6.2 | 30.4 | 31.6 |
| | 3.49 | 21.8 | 21.9 | 0.3 | 6.2 | 28.3 | 28.4 |
| | 3.96 | 22.0 | 21.3 | 0.3 | 6.2 | 28.5 | 27.8 |
| | 14.32 | 11.8 | 19.9 | 0.6 | 6.2 | 18.6 | 26.7 |
| Internal Signal | 0.46 | 23.9 | 24.4 | 0.1 | 6.2 | 30.2 | 30.7 |
| | 0.50 | 23.1 | 26.1 | 0.1 | 6.2 | 29.4 | 32.4 |
| | 2.69 | 23.2 | 24.7 | 0.3 | 6.2 | 29.7 | 31.2 |
| | 3.49 | 21.5 | 21.6 | 0.3 | 6.2 | 28.0 | 28.1 |
| | 3.96 | 21.6 | 21.0 | 0.3 | 6.2 | 28.1 | 27.5 |
| | 14.32 | 11.9 | 18.8 | 0.6 | 6.2 | 18.7 | 25.6 |
| RF/CATV Signal Input | 0.46 | 23.8 | 24.2 | 0.1 | 6.2 | 30.1 | 30.5 |
| | 0.50 | 22.8 | 25.5 | 0.1 | 6.2 | 29.1 | 31.8 |
| | 2.69 | 23.5 | 24.6 | 0.3 | 6.2 | 30.0 | 31.1 |
| | 3.49 | 21.7 | 21.8 | 0.3 | 6.2 | 28.2 | 28.3 |
| | 3.96 | 21.5 | 20.9 | 0.3 | 6.2 | 28.0 | 27.4 |
| | 14.32 | 11.9 | 19.7 | 0.6 | 6.2 | 18.7 | 26.5 |

Note:

1. Sample calculation at
   M.B., 1 V p-p, 1-end & Gro. 0.46 MHz ; 24.1 + 0.1 + 6.2 - 30.4 (dBuV)

2. Measuring Instruments:
   a) Field strength meter - Kyoritsu Electric Work Co., Ltd.
      Model : KNM-402C
      (1) Detector function : CISPR Q Peak
      (2) IF band width : 9 kHz
      (3) Input impedance : 75 ohms
   b) Line impedance stabilized network (LISN)
      Kyoritsu Electric Work CO., Ltd.
      Model : KNW 406
      50 ohms / 50 uH network
   c) Test Signal Generator (Multi Burst) - Shibasoku Co., Ltd.
      Model : 205
   d) Matching pad - Kyoritsu Electric Work Co., Ltd.
      Model : KPD 401

3. The spectrum was checked from 0.45 MHz to 30 MHz and the six highest emissions relative to the appropriate limit were measured and reported.

2) 15.109 Radiated Emission(Including Tuner, Without Accessories)

| Video Signal | Frequency (MHz) | Meter Reading Open Volt. (dBuV) Horiz. | Meter Reading Open Volt. (dBuV) Vert. | Correction Factor (dB) Open Vol. | Emission & 3 meters(dBuV) Horiz. | Emission & 3 meters(dBuV) Vert. |
|---|---|---|---|---|---|---|
| Multi Burst 1 V p-p | 53.69 | 4.8 | 3.8 | 12.6 | 17.4 | 16.4 |
| | 57.27 | 7.3 | 5.8 | 11.0 | 18.3 | 16.8 |
| | 143.18 | 6.6 | 5.6 | 17.2 | 23.8 | 22.8 |
| | 178.98 | 4.4 | 3.6 | 18.8 | 23.2 | 22.4 |
| | 407.00 | 7.1 | 16.0 | 21.2 | 28.3 | 37.2 |
| | 1234.00 | 9.8 | 11.9 | 34.0 | 43.8 | 45.9 |
| Multi Burst 5 V p-p | 53.69 | 5.0 | 4.0 | 12.6 | 17.6 | 16.6 |
| | 57.27 | 7.2 | 5.5 | 11.0 | 18.2 | 16.5 |
| | 143.18 | 6.5 | 5.5 | 17.2 | 23.7 | 22.7 |
| | 178.98 | 4.8 | 3.8 | 18.8 | 23.6 | 22.6 |
| | 407.00 | 7.1 | 16.0 | 21.2 | 28.3 | 37.2 |
| | 1234.00 | 9.8 | 11.9 | 34.0 | 43.8 | 45.9 |
| Internal Signal | 53.69 | 6.3 | 4.7 | 12.6 | 18.9 | 17.3 |
| | 57.27 | 7.7 | 6.6 | 11.0 | 18.7 | 17.6 |
| | 143.18 | 5.5 | 4.1 | 17.2 | 22.7 | 21.3 |
| | 178.98 | 3.0 | 2.8 | 18.8 | 21.8 | 21.6 |
| | 407.00 | 7.1 | 16.0 | 21.2 | 28.3 | 37.2 |
| | 1234.00 | 9.8 | 11.9 | 34.0 | 43.8 | 45.9 |
| RF/CATV Signal Input | 53.69 | 4.7 | 3.7 | 12.6 | 17.3 | 16.3 |
| | 57.27 | 7.2 | 5.9 | 11.0 | 18.2 | 16.9 |
| | 143.18 | 5.3 | 3.9 | 17.2 | 22.5 | 21.1 |
| | 178.98 | 4.0 | 2.6 | 18.8 | 22.8 | 21.4 |
| | 407.00 | 7.1 | 16.0 | 21.2 | 28.3 | 37.2 |
| | 1234.00 | 9.8 | 11.9 | 34.0 | 43.8 | 45.9 |

Note: 1. Sample calculation at
M.B., 1 V p-p, Horiz. 53.69 MHz ; 4.8 + 12.6 = 17.4 (dBuV/m)

2. Measuring Instruments:

a) Field strength meter (for 30 MHz to 1G Hz)
Rohde & Schwarz
Model : ESVP
(1) Frequency range : 20 MHz to 1300 MHz
(2) RF Input : 50 ohm
(3) IF band width : 7.5 kHz/12 kHz/120k Hz/1MHz
(4) Detector function : Average/CISPR Q-Peak/Peak

b) Spectrum Analyzer (for more than 1G Hz)
- ADVANTEST Co., Ltd.
Model : R3261A
(1) Frequency range : 9 kHz to 2.6G Hz
(2) RF Input : 50 ohm
(3) IF band width : 30 Hz to 1 MHz
200 Hz/9 kHz/120 kHz
(4) Detector function : CISPR Q-Peak/Peak

c) Test Signal Generator (Multi Burst)
Shibasoku Co., Ltd.
Model : TG-5, 2U2

d) Receiving antenna
Schwarzbeck
Model : VHA9103 30 - 300 MHz
Model : UHALP9107 300 1000 MHz
- The Electro-Mechanics Company
Model : 3115 1 - 18G Hz

3. The spectrum was checked from 30 MHz to 1694 MHz and the six highest emissions relative to the appropriate limit were measured and reported.

2) 15.109 Radiated Emission(Including Tuner, With Accessories)

| Video Signal | Frequency (MHz) | Meter Reading Open Volt. (dBuV) Horiz. | Meter Reading Open Volt. (dBuV) Vert. | Correction Factor (dB) Open Vol. | Emission & 3 meters(dBuV) Horiz. | Emission & 3 meters(dBuV) Vert. |
|---|---|---|---|---|---|---|
| Multi Burst 1 V p-p | 53.69 | 5.9 | 4.8 | 12.6 | 18.5 | 17.4 |
| | 57.27 | 10.5 | 6.4 | 11.0 | 21.5 | 17.4 |
| | 143.18 | 10.4 | 6.6 | 17.2 | 27.6 | 23.8 |
| | 178.98 | 9.0 | 6.7 | 18.8 | 27.8 | 25.5 |
| | 407.00 | 18.9 | 17.2 | 21.2 | 40.1 | 38.4 |
| | 1234.00 | 10.8 | 13.2 | 34.0 | 44.8 | 47.2 |
| Multi Burst 5 V p-p | 53.69 | 6.2 | 5.0 | 12.6 | 18.8 | 17.6 |
| | 57.27 | 10.3 | 6.1 | 11.0 | 21.3 | 17.1 |
| | 143.18 | 10.5 | 6.8 | 17.2 | 27.7 | 24.0 |
| | 178.98 | 8.8 | 6.5 | 18.8 | 27.6 | 25.3 |
| | 407.00 | 18.9 | 17.2 | 21.2 | 40.1 | 38.4 |
| | 1234.00 | 10.8 | 13.2 | 34.0 | 44.8 | 47.2 |
| Internal Signal | 53.69 | 9.9 | 7.4 | 12.6 | 22.5 | 20.0 |
| | 57.27 | 13.5 | 7.6 | 11.0 | 24.5 | 18.6 |
| | 143.18 | 9.2 | 4.3 | 17.2 | 26.4 | 21.5 |
| | 178.98 | 7.8 | 6.2 | 18.8 | 26.6 | 25.0 |
| | 407.00 | 18.9 | 17.2 | 21.2 | 40.1 | 38.4 |
| | 1234.00 | 10.8 | 13.2 | 34.0 | 44.8 | 47.2 |
| RF/CATV Signal Input | 53.69 | 5.8 | 5.2 | 12.6 | 18.4 | 17.8 |
| | 57.27 | 10.3 | 6.6 | 11.0 | 21.3 | 17.6 |
| | 143.18 | 10.3 | 6.4 | 17.2 | 27.5 | 23.6 |
| | 178.98 | 8.5 | 6.6 | 18.8 | 27.3 | 25.4 |
| | 407.00 | 18.9 | 17.2 | 21.2 | 40.1 | 38.4 |
| | 1234.00 | 10.8 | 13.2 | 34.0 | 44.8 | 47.2 |

Note: 1. Sample calculation at
M.B., 1 V p p, Horiz. 53.69 MHz ; 5.9 + 12.6 - 18.5 (dBuV/m)

2. Measuring Instruments:

a) Field strength meter (for 30 MHz to 1G Hz) - Rohde & Schwarz
Model : ESVP
(1) Frequency range : 20 MHz to 1300 MHz
(2) RF Input : 50 ohm
(3) IF band width : 7.5 kHz/12 kHz/120 kHz/1MHz
(4) Detector function : Average/CISPR Q-Peak/Peak

b) Spectrum Analyzer (for more than 1G Hz) - ADVANTEST Co., Ltd.
Model : R3261A
(1) Frequency range : 9 kHz to 2.6G Hz
(2) RF Input : 50 ohm
(3) IF band width : 30 Hz to 1 MHz
200 Hz/9 kHz/120 kHz
(4) Detector function : CISPR Q Peak/Peak

c) Test Signal Generator (Multi Burst) Shibasoku Co., Ltd.
Model : TG-5, 2U2

d) Receiving antenna - Schwarzbeck
Model : VHA9103 30 300 MHz
Model : UHALP9107 300 - 1000 MHz
- The Electro-Mechanics Company
Model : 3115 1 - 18G Hz

3. The spectrum was checked from 30 MHz to 1694 MHz and the six highest emissions relative to the appropriate limit were measured and reported.

3) 15.111 (a) Antenna Power Conducted Voltage

| Frequency (MHz) | Meter Reading (dBuV) | Matc. Pad Loss (dB) | Interference (dBuV) |
|---|---|---|---|
| 358.0 | 34.2 | 8.8 | 43.0 |
| 370.0 | 35.2 | 8.8 | 44.0 |
| 382.0 | 35.7 | 8.8 | 44.5 |
| 394.0 | 35.3 | 8.8 | 44.1 |
| 406.0 | 35.1 | 8.8 | 43.9 |
| 418.0 | 34.7 | 8.8 | 43.5 |

Antenna Input Impedance: 75 ohms (Unbalanced)

Note:
1. Sample calculation at 358.0 MHz ; 34.2 + 8.8 - 43.0 (dBuV)

2. Measuring Instrument:
   a) Spectrum Analyzer - ADVANTEST Co., Ltd.
      Model : R3261A
      (1) Detector function : Peak
      (2) Band width : 300 kHz
   b) Matching Pad Anritsu Electric Co., Ltd.
      Model : MB-009
      (1) Frequency range : DC - 2G Hz

3. The spectrum was checked from 30 MHz to 1694 MHz and the six highest emissions relative to the appropriate limit were measured and reported.

4) 15.115 (b) (1) Output Signal Level

| Video Signal | Ch | Measured Frequency(MHz) | | Meter Reading (dBuV) | | Pad Loss (dB) | Output Signal Level (dBuV) | |
|---|---|---|---|---|---|---|---|---|
| | | Visual | Aural | Visual | Aural | | Visual | Aural |
| Multi Burst 1 V p-p | 3 | 61.25 | 65.75 | 63.6 | 48.4 | 2.3 | 65.9 | 50.7 |
| | 4 | 67.25 | 71.75 | 63.1 | 48.6 | 2.3 | 65.4 | 50.9 |
| Multi Burst 5 V p-p | 3 | 61.25 | 65.75 | 63.6 | 48.4 | 2.3 | 65.9 | 50.7 |
| | 4 | 67.25 | 71.75 | 63.1 | 48.6 | 2.3 | 65.4 | 50.9 |
| Internal Signal | 3 | 61.25 | 65.75 | 63.6 | 48.4 | 2.3 | 65.9 | 50.7 |
| | 4 | 67.25 | 71.75 | 63.1 | 48.6 | 2.3 | 65.4 | 50.9 |
| RF/CATV Signal | 3 | 61.25 | 65.75 | 63.6 | 48.4 | 2.3 | 65.9 | 50.7 |
| | 4 | 67.25 | 71.75 | 63.1 | 48.6 | 2.3 | 65.4 | 50.9 |

RF Output Impedance: 75 ohms (Unbalanced)

Note:
1. Sample calculation at
M.B., 1 V p-p, Visual, 3 Ch ; 63.6 + 2.3 = 65.9 (dBuV)

2. Measuring Instrument:
a) Spectrum Analyzer - Anritsu Electric Co., Ltd.
Model : MS62B
(1) Detector function : Peak
(2) Band width : 300 kHz

b) Matching Pad - Anritsu Electric Co., Ltd.
Model : MP614A
(1) Frequency range : 10 - 1200 MHz

c) Test Signal Generator (Multi Burst) Shibasoku Co., Ltd.
Model : 205

Part 15 Subpart B, (TV Interface Device)
5) 15.115 (b) (2) Output Terminal Conducted Interference

| Video Signal | Ch | Freq. (MHz) | Meter Read. (dBuV) | Matc. Pad Loss (dB) | Att. Pad Loss(dB) | Gain of Amp.(dB) | Interference (dBuV) |
|---|---|---|---|---|---|---|---|
| Multi Burst 1 V p-p | 3 | 43.25 | 47.4 | 2.3 | N/A | 24.3 | 25.4 |
| | | 50.54 | 55.4 | 2.3 | N/A | 24.3 | 33.4 |
| | | 71.47 | 53.6 | 2.3 | N/A | 24.4 | 31.5 |
| | | 79.25 | 44.7 | 2.3 | N/A | 24.4 | 22.6 |
| | | 122.50 | 46.5 | 2.3 | N/A | 24.3 | 24.5 |
| | | 127.00 | 44.8 | 2.3 | N/A | 24.3 | 22.8 |
| | 4 | 49.25 | 48.1 | 2.3 | N/A | 24.3 | 26.1 |
| | | 56.51 | 55.8 | 2.3 | N/A | 24.4 | 33.7 |
| | | 77.92 | 53.6 | 2.3 | N/A | 24.4 | 31.5 |
| | | 130.00 | 47.5 | 2.3 | N/A | 24.3 | 25.5 |
| | | 134.50 | 56.4 | 2.3 | N/A | 24.3 | 34.4 |
| | | 139.00 | 47.7 | 2.3 | N/A | 24.3 | 25.7 |
| Multi Burst 5 V p-p | 3 | 43.25 | 47.4 | 2.3 | N/A | 24.3 | 25.4 |
| | | 50.54 | 55.4 | 2.3 | N/A | 24.3 | 33.4 |
| | | 71.47 | 53.6 | 2.3 | N/A | 24.4 | 31.5 |
| | | 79.25 | 44.7 | 2.3 | N/A | 24.4 | 22.6 |
| | | 122.50 | 46.5 | 2.3 | N/A | 24.3 | 24.5 |
| | | 127.00 | 44.8 | 2.3 | N/A | 24.3 | 22.8 |
| | 4 | 49.25 | 48.1 | 2.3 | N/A | 24.3 | 26.1 |
| | | 56.51 | 55.8 | 2.3 | N/A | 24.4 | 33.7 |
| | | 77.92 | 53.6 | 2.3 | N/A | 24.4 | 31.5 |
| | | 130.00 | 47.5 | 2.3 | N/A | 24.3 | 25.5 |
| | | 134.50 | 56.4 | 2.3 | N/A | 24.3 | 34.4 |
| | | 139.00 | 47.7 | 2.3 | N/A | 24.3 | 25.7 |
| Internal Signal | 3 | 43.25 | 47.4 | 2.3 | N/A | 24.3 | 25.4 |
| | | 50.54 | 55.4 | 2.3 | N/A | 24.3 | 33.4 |
| | | 71.47 | 53.6 | 2.3 | N/A | 24.4 | 31.5 |
| | | 79.25 | 44.7 | 2.3 | N/A | 24.4 | 22.6 |
| | | 122.50 | 46.5 | 2.3 | N/A | 24.3 | 24.5 |
| | | 127.00 | 44.8 | 2.3 | N/A | 24.3 | 22.8 |
| | 4 | 49.25 | 48.1 | 2.3 | N/A | 24.3 | 26.1 |
| | | 56.51 | 55.8 | 2.3 | N/A | 24.4 | 33.7 |
| | | 77.92 | 53.6 | 2.3 | N/A | 24.4 | 31.5 |
| | | 130.00 | 47.5 | 2.3 | N/A | 24.3 | 25.5 |
| | | 134.50 | 56.4 | 2.3 | N/A | 24.3 | 34.4 |
| | | 139.00 | 47.7 | 2.3 | N/A | 24.3 | 25.7 |
| RF/CATV Signal Input | 3 | 43.25 | 47.4 | 2.3 | N/A | 24.3 | 25.4 |
| | | 50.54 | 55.4 | 2.3 | N/A | 24.3 | 33.4 |
| | | 71.47 | 53.6 | 2.3 | N/A | 24.4 | 31.5 |
| | | 79.25 | 44.7 | 2.3 | N/A | 24.4 | 22.6 |
| | | 122.50 | 46.5 | 2.3 | N/A | 24.3 | 24.5 |
| | | 127.00 | 44.8 | 2.3 | N/A | 24.3 | 22.8 |
| | 4 | 49.25 | 48.1 | 2.3 | N/A | 24.3 | 26.1 |
| | | 56.51 | 55.8 | 2.3 | N/A | 24.4 | 33.7 |
| | | 77.92 | 53.6 | 2.3 | N/A | 24.4 | 31.5 |
| | | 130.00 | 47.5 | 2.3 | N/A | 24.3 | 25.5 |
| | | 134.50 | 56.4 | 2.3 | N/A | 24.3 | 34.4 |
| | | 139.00 | 47.7 | 2.3 | N/A | 24.3 | 25.7 |

RF Output Impedance: 75 ohms (Unbalanced)

Note:

1. Sample calculation at
   M.B., 1 V p-p, 3 Ch., 43.25 MHz ; 47.4 + 2.3 - 24.3 = 25.4 (dBuV)

2. Measuring Instrument:

| | |
|---|---|
| a) Spectrum Analyzer | Anritsu Electric Co., Ltd.<br>Model : MS62B<br>(1) Detector function : Peak<br>(2) Band width : 300 kHz |
| b) Matching Pad | Anritsu Electric Co., Ltd.<br>Model : MP614A<br>(1) Frequency range : 10 - 1200 MHz |
| c) Test Signal Generator (Multi Burst) | Shibasoku Co., Ltd.<br>Model : 205 |
| d) Amplifier | Hewlett Packard<br>Model : 8447F |

3. The spectrum was checked from 30 MHz to 1000 MHz and the six highest emissions relative to the appropriate limit were measured and reported.

6) 15.115 (c) Transfer Switch Isolation

| Video Signal | Ch | Meter Read.(dBuV) | Matching Pad Loss(dB) | Gain of Amp.(dB) | Pad Loss (dB) | Level (dBuV) |
|---|---|---|---|---|---|---|
| Multi Burst 1 V p-p | 3 | <26.0 | 2.3 | 24.4 | N/A | <3.9 |
| | 4 | 26.6 | 2.3 | 24.4 | N/A | 4.5 |
| Multi Burst 5 V p-p | 3 | <26.0 | 2.3 | 24.4 | N/A | <3.9 |
| | 4 | 26.6 | 2.3 | 24.4 | N/A | 4.5 |
| Internal Signal | 3 | <26.0 | 2.3 | 24.4 | N/A | <3.9 |
| | 4 | 26.6 | 2.3 | 24.4 | N/A | 4.5 |
| | 3 | | | | | |
| | 4 | | | | | |

RF Output Impedance: 75 ohms (Unbalanced)

Note:
1. Sample calculation at
M.B., 1 V p-p, Visual, 4 Ch ; 26.6 + 2.3 - 24.4 = 4.5 (dBuV)

2. Measuring Instrument:
a) Spectrum Analyzer - Anritsu Electric Co., Ltd.
Model : MS62B
(1) Detector function : Peak
(2) Band width : 300 kHz
b) Matching Pad - Anritsu Electric Co., Ltd.
Model : MP614A
(1) Frequency range : 10 - 1200 MHz
c) Test Signal Generator (Multi Burst) - Shibasoku Co., Ltd.
Model : 205
d) Amplifier - Hewlett Packard
Model : 8447F

3. The symbol of " < " means " or less ".

№ 8-3-23-5

KNW-406 LISN

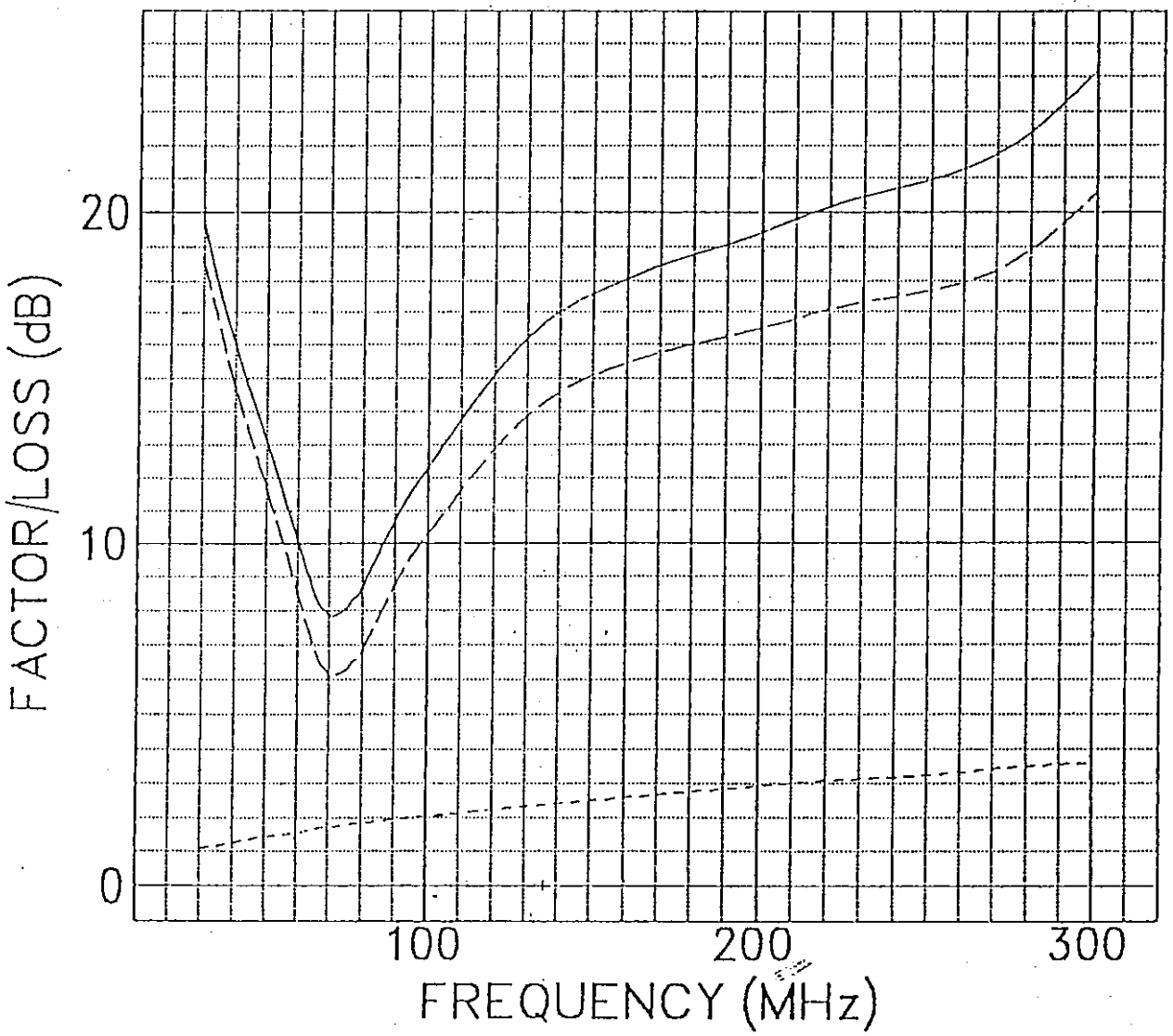
LISN FACTOR (K)

Frequency (MHz)

0.01 0.02 0.03 0.05 0.07 0.1 0.2 0.3 0.5 0.7 1 2 3 5 7 10 20 30 50

0 1 2 3 4 5 6

# CORRECTION FACTOR OF BBA9106




E = V + K

E : Field Strength

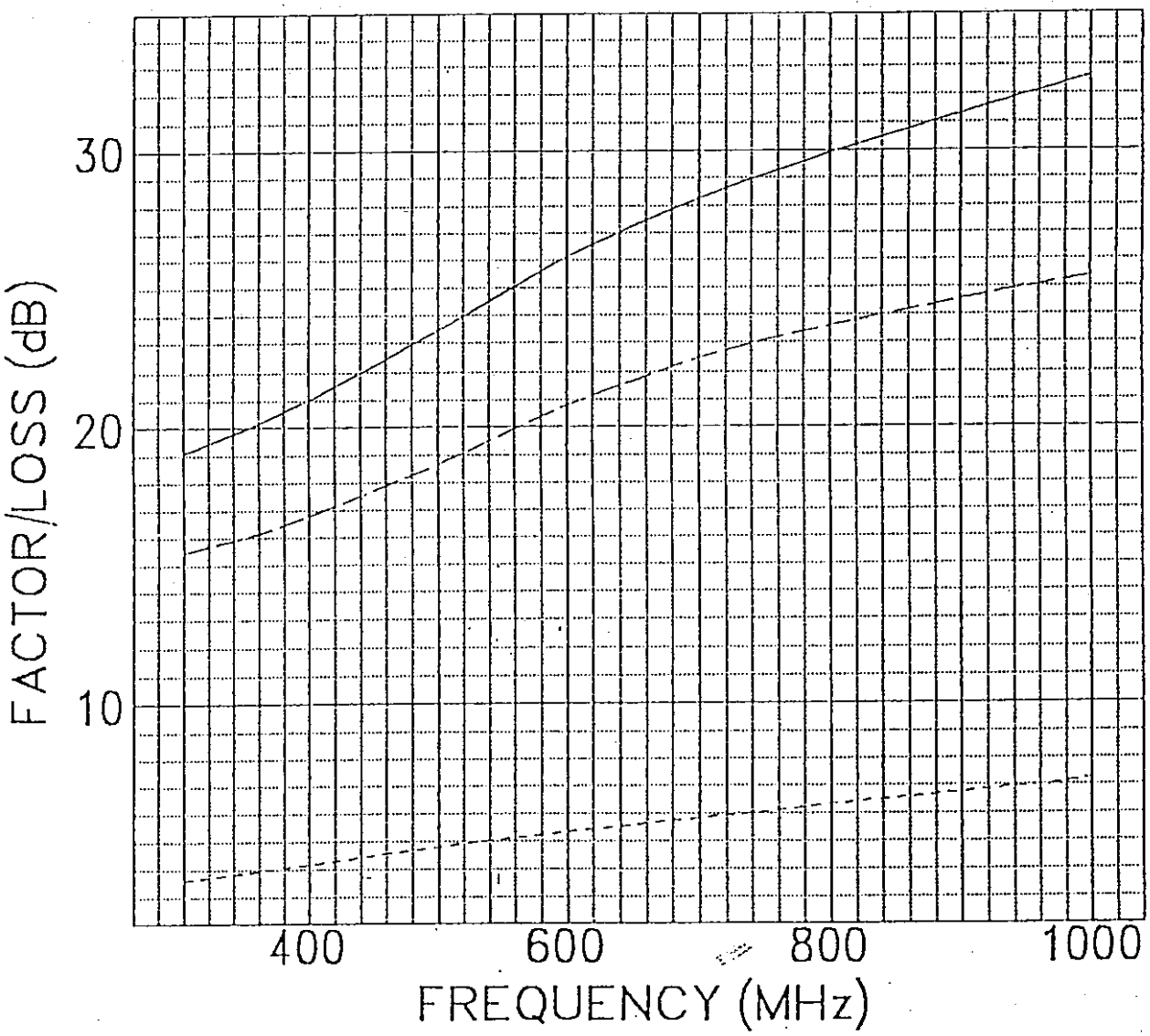
V : Correction Factor (dB)

——— : Correction Factor

– – – – : Antenna Factor

-------- : Cable Loss

# CORRECTION FACTOR OF UHALP9107




E = V + K

E : Field Strength

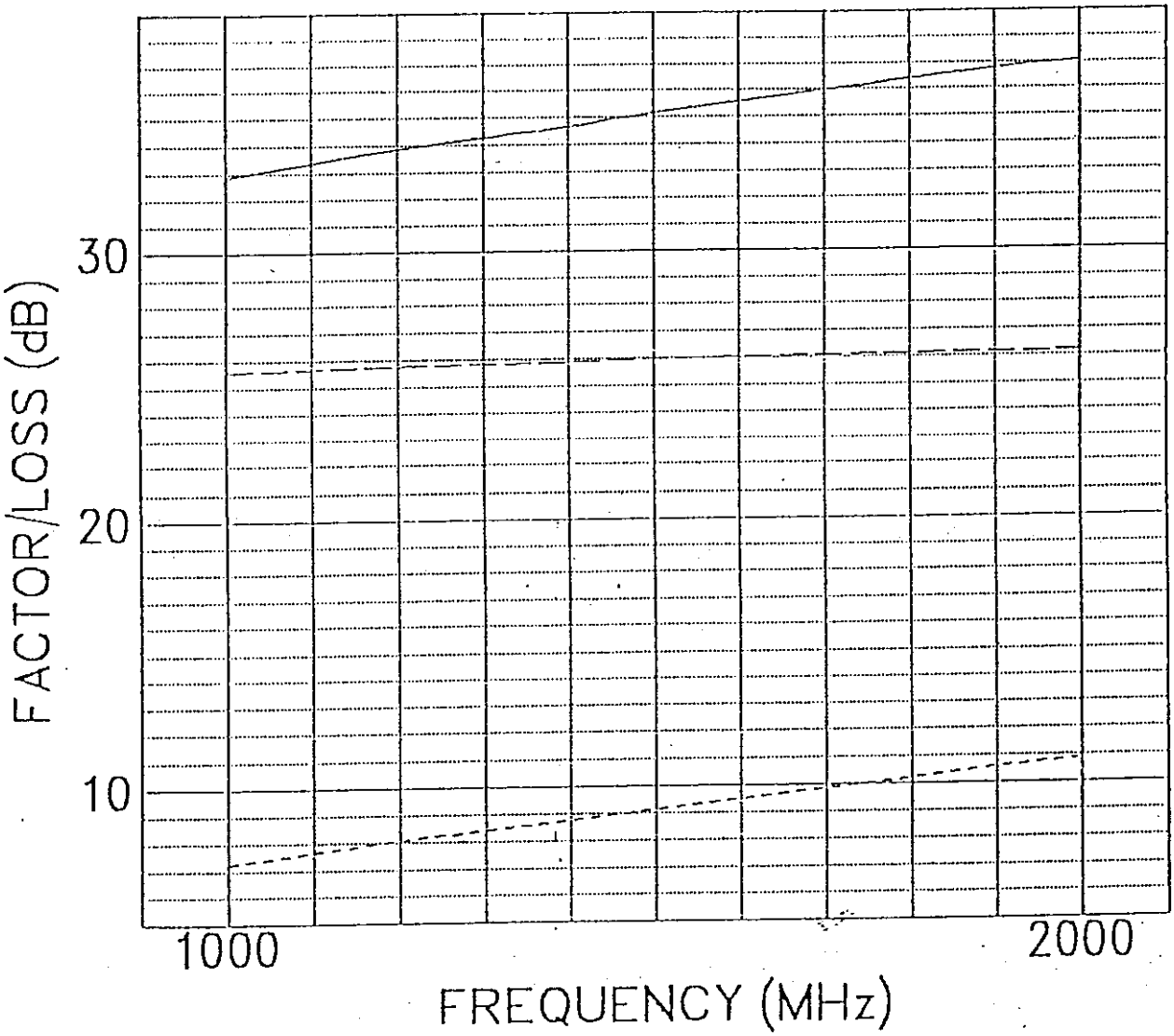
V : Correction Factor (dB)

——— : Correction Factor

– – – – : Antenna Factor

-------- : Cable Loss

# CORRECTION FACTOR OF 3115




E = V + K

E : Field Strength

V : Correction Factor (dB)

——— : Correction Factor

– – – – : Antenna Factor

-------- : Cable Loss