



JAPAN QUALITY ASSURANCE ORGANIZATION  
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JQA APPLICATION NO.: 400-20404

Issue Date : August 28, 2002

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## EMI TEST REPORT

JQA APPLICATION NO. : 400-20404

Model No. : G8D 360M

Type of Equipment : TPMS Receiver

Regulations Applied : CFR 47 FCC Rules and Regulations Part 15

FCC ID : OUCG8D-360M

Applicant : OMRON Corporation

Address : 6368 Nenjo zaka, Okusa Komaki-city,  
Aichi 485-0802, Japan

Manufacture : OMRON Corporation

Address : 6368 Nenjo-zaka, Okusa Komaki-city,  
Aichi 485-0802, Japan

Received date of EUT : August 22, 2002

Final Judgment : Passed

Test results in this report are obtained in use of equipment that is traceable to National Institute of Advanced Industrial Science and Technology (AIST) of Japan and Communication Research Laboratory (CRL) of Japan.

The test results only respond to the tested sample. This report should not be reproduced except in full, without the written approval of JQA EMC Engineering Dept. Testing Div.

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**1 DOCUMENTATION****1.1 TEST REGULATION**

FCC Rules and Regulations Part 15 Subpart A and B (June 23, 1989) All other receivers subject to part 15

**Test procedure :**

AC power line conducted emission, radiated emission and antenna conducted power tests were performed according to the procedures in ANSI C63.4-1992.

**1.2 GENERAL INFORMATION****1.2.1 Test facility :**

- 1) Test Facility located at EMC Engineering Dept. Testing Div. :
  - No.2 and 3 Anechoic Chambers( 3 meters Site ).
  - Shielded Enclosure.

Expiration date of FCC test facility filing : May 27, 2005

- 2) EMC Engineering Dept. Testing Div. is recognized under the National Voluntary Laboratory accreditation Program for satisfactory compliance established in title 15, Part 285 Code of Federal Regulations.

NVLAP Lab Code : 200189-0 (Effective through : June 30, 2003)

**1.2.2 Description of the Equipment Under Test (EUT) :**

- |                                      |                                          |
|--------------------------------------|------------------------------------------|
| 1) Type of Equipment                 | : TPMS Receiver                          |
| 2) Product Type                      | : Pre-production                         |
| 3) Category                          | : All other receivers subject to part 15 |
| 4) EUT Authorization                 | : Certification                          |
| 5) FCC ID                            | : OJCG8D-360M                            |
| 6) Trade Name                        | : OMRON                                  |
| 7) Model No.                         | : G8D 360M                               |
| 8) Tuning Frequency Range            | : 433.92 MHz                             |
| 9) Highest Frequency Used in the EUT | : 423.22 MHz                             |
| 10) Serial No.                       | : None                                   |
| 11) Date of Manufacture              | : None                                   |
| 12) Power Rating                     | : 12 VDC                                 |
| 13) EUT Grounding                    | : None                                   |

**1.2.3 Definitions for symbols used in this test report :**

- x - indicates that the listed condition, standard or equipment is applicable for this report.
- indicates that the listed condition, standard or equipment is not applicable for this report.

### 1.3 TEST CONDITION

#### 1.3.1 The measurement of the AC Power Line Conducted Emission

- ☐ - was performed in the following test site.  
☒ - was not applicable.

Test location :

Safety & EMC Center EMC Engineering Dept. Testing Div.  
 21-25, Kinuta 1-chome, Setagaya-ku, Tokyo 157-8573, Japan

- ☐ - Shielded Enclosure  
☐ - Anechoic Chamber No. 2 (portable Type)

Used test instruments :

| Type                                             | Model No. | Manufacturer        | Serial No.   | Last Cal. | Interval |
|--------------------------------------------------|-----------|---------------------|--------------|-----------|----------|
| <input type="checkbox"/> - Test Receiver         | ESII-2    | Rohde & Schwarz     | 880370/016   | May 2002  | 1 Year   |
| <input type="checkbox"/> - Test Receiver         | ESH-3     | Rohde & Schwarz     | 881460/030   | May 2002  | 1 Year   |
| <input type="checkbox"/> - Test Receiver         | ESHS10    | Rohde & Schwarz     | 935871/004   | May 2002  | 1 Year   |
| <input type="checkbox"/> - LISN(for Peripherals) | KNW-407   | Kyoritsu Electrical | 0-833-6      | Apr. 2002 | 1 Year   |
| <input type="checkbox"/> - LISN(for EUT)         | KNW-407   | Kyoritsu Electrical | 8-855-2      | Apr. 2002 | 1 Year   |
| <input type="checkbox"/> - LISN                  | KNW-407   | Kyoritsu Electrical | 8-757-1      | Apr. 2002 | 1 Year   |
| <input type="checkbox"/> - RF Cable              | 3D-2W     | Fujikura            | 155-21-006E0 | Apr. 2002 | 1 Year   |
| <input type="checkbox"/> - RF Cable              | 3D-2W     | Fujikura            | 155-21-007E0 | Apr. 2002 | 1 Year   |
| <input type="checkbox"/> - 50ohm Termination     | -         | SUHRER              | 154-06-501E0 | Jan. 2002 | 1 Year   |
| <input type="checkbox"/> - 50ohm Termination     | -         | SUHRER              | 154-06-502E0 | Jan. 2002 | 1 Year   |

## 1.3.2 The measurement of the Radiated Emission(30 MHz - 1000 MHz)

- ☒ was performed in the following test site.  
☐ - was not applicable.

### Test location :

Safety & EMC Center EMC Engineering Dept. Testing Div.  
 21-25, Kinuta 1-chome, Setagaya-ku, Tokyo 157-8573, Japan

- ☒ - Anechoic Chamber No. 2 (3 meters)  
☐ - Anechoic Chamber No. 3 (3 meters)

### Validation of Site Attenuation :

- 1) Last Confirmed Date :March, 2002  
 2) Interval :1 year

### Used test instruments :

| Type                                                       | Model No. | Manufacturer        | Serial No.   | Last Cal. | Interval |
|------------------------------------------------------------|-----------|---------------------|--------------|-----------|----------|
| <input type="checkbox"/> - Spectrum Analyzer               | 8580E     | Hewlett Packard     | 3243A00189   | Nov. 2001 | 1 Year   |
| <input type="checkbox"/> - Spectrum Analyzer               | 8566B     | Hewlett Packard     | 2140A01091   | Mar. 2002 | 1 Year   |
| <input type="checkbox"/> - RF Pre selector                 | 85685A    | Hewlett Packard     | 2646A00522   | Oct. 2001 | 1 Year   |
| <input type="checkbox"/> - Spectrum Analyzer               | 8566R     | Hewlett Packard     | 2747A05655   | Apr. 2002 | 1 Year   |
| <input type="checkbox"/> - RF Pre-selector                 | 85685A    | Hewlett Packard     | 2091AD0933   | Apr. 2002 | 1 Year   |
| <input type="checkbox"/> - Test Receiver                   | ESV       | Rohde & Schwarz     | 872148/039   | May 2002  | 1 Year   |
| <input checked="" type="checkbox"/> - Test Receiver        | ESVS10    | Rohde & Schwarz     | 826148/002   | May 2002  | 1 Year   |
| <input type="checkbox"/> - Test Receiver                   | ESVS10    | Rohde & Schwarz     | 832699/001   | May 2002  | 1 Year   |
| <input type="checkbox"/> - Antenna                         | KBA-511   | Kyoritsu Electrical | 0-170-1      | Nov. 2001 | 1 Year   |
| <input type="checkbox"/> - Antenna                         | KBA-511A  | Kyoritsu Electrical | 0-201-13     | Nov. 2001 | 1 Year   |
| <input type="checkbox"/> - Antenna                         | KBA-611   | Kyoritsu Electrical | 0-147-14     | Nov. 2001 | 1 Year   |
| <input type="checkbox"/> - Antenna                         | KBA-611   | Kyoritsu Electrical | 0-210-5      | Nov. 2001 | 1 Year   |
| <input checked="" type="checkbox"/> - Biconical Antenna    | BBA9106   | Schwarzbeck         | VIA91031150  | Nov. 2001 | 1 Year   |
| <input type="checkbox"/> - Biconical Antenna               | BBA9106   | Schwarzbeck         | 1190507630   | Nov. 2001 | 1 Year   |
| <input checked="" type="checkbox"/> - Log-Periodic Antenna | UHLP9107  | Schwarzbeck         | 1190507920   | Nov. 2001 | 1 Year   |
| <input type="checkbox"/> - Log Periodic Antenna            | UHLP9107  | Schwarzbeck         | 11905110     | Nov. 2001 | 1 Year   |
| <input checked="" type="checkbox"/> - RF Cable             | SD-2W     | Fujikura            | 155-21-001E0 | Feb. 2002 | 1 Year   |
| <input type="checkbox"/> - RF Cable                        | SD-2W     | Fujikura            | 155-21-002E0 | Feb. 2002 | 1 Year   |

### 1.3.3 The measurement of the Radiated Emission(Above 1000 MHz)

- ☒ - was performed in the following test site.  
☐ - was not applicable.

#### Test location :

Safety & EMC Center EMC Engineering Dept. Testing Div.  
 21-25, Kinuta 1-chome, Setagaya-ku, Tokyo 157-8573, Japan

- ☒ No. 2 site (3 meters)  
☐ - No. 3 site (3 meters)

#### Validation of Site Attenuation :

- 1) Last Confirmed Date :N/A  
 2) Interval :K/A

#### Used test instruments :

| Type                                                       | Model No.          | Manufacturer       | Serial No.   | Last Cal. | Interval |
|------------------------------------------------------------|--------------------|--------------------|--------------|-----------|----------|
| - Spectrum Analyzer                                        | 8560E              | Hewlett Packard    | 3240A00189   | Nov. 2001 | 1 Year   |
| - Spectrum Analyzer                                        | 8566B              | Hewlett Packard    | 2140A01091   | Mar. 2002 | 1 Year   |
| - RF Pre selector                                          | 85685A             | Hewlett Packard    | 2648A00522   | Oct. 2001 | 1 Year   |
| <input checked="" type="checkbox"/> - Spectrum Analyzer    | 8566B              | Hewlett Packard    | 2747A05855   | Apr. 2002 | 1 Year   |
| <input checked="" type="checkbox"/> - RF Pre-selector      | 85685A             | Hewlett Packard    | 2091A00933   | Apr. 2002 | 1 Year   |
| <input checked="" type="checkbox"/> - Log-Periodic Antenna | HL 025             | Rohde & Schwarz    | 340182/015   | Jan. 2002 | 1 Year   |
| - RF Amplifier                                             | DBP-0102N5334272B  | DBS Microwave Inc. | 012          | June 2002 | 1 Year   |
| - RF Amplifier                                             | WJ-6882-814        | Watkins-Johnson    | 0414         | June 2002 | 1 Year   |
| - RF Amplifier                                             | WJ-5335-556        | Watkins-Johnson    | 106          | June 2002 | 1 Year   |
| - RF Amplifier                                             | WJ 5320 307        | Watkins-Johnson    | 645          | June 2002 | 1 Year   |
| <input checked="" type="checkbox"/> - RF Cable(10m)        | S 04272B           | Suhner             | 155-21-011E0 | May 2002  | 1 Year   |
| - RF Cable(2m)                                             | SUCCOFLEX 104      | Suhner             | 155-21-012E0 | May 2002  | 1 Year   |
| - RF Cable(1m)                                             | SUCCOFLEX 104      | Suhner             | 155 21 013E0 | May 2002  | 1 Year   |
| - RF Cable(1m)                                             | S 04272B           | Suhner             | 155 21 015E0 | June 2002 | 1 Year   |
| - Test Receiver                                            | ES126              | Rohde & Schwarz    | 100043       | Aug. 2001 | 1 Year   |
| - RF Amplifier                                             | JS4 00102600 28 5A | MITEQ              | 669167       | Apr. 2002 | 1 Year   |
| - RF Cable(4m)                                             | SUCCOFLEX 104      | Suhner             | 190630       | Dec. 2001 | 1 Year   |
| - RF Cable(1m)                                             | SUCCOFLEX 104      | Suhner             | 182611/4     | Dec. 2001 | 1 Year   |
| - RF Cable(10m)                                            | F130-S151-394      | MECA PHASE         | 10510        | Dec. 2001 | 1 Year   |

## 1.3.4 The measurement of the Antenna Conducted Power

  x   - was performed in the following test site.

       - was not applicable.

### Test location :

Safety & EMC Center EMC Engineering Dept. Testing Div.

21-25, Kinuta 1-chome, Setagaya-ku, Tokyo 157-8573, Japan

  x   - Shielded Enclosure

       - Anechoic Chamber No. 2 (portable Type)

### Used test instruments :

|               | Type                | Model No.    | Manufacturer    | Serial No.   | Last Cal. | Interval |
|---------------|---------------------|--------------|-----------------|--------------|-----------|----------|
|               | - Test Receiver     | ESV          | Rohde & Schwarz | 872148/039   | May 2002  | 1 Year   |
| <u>  x  </u>  | - Test Receiver     | ESVS10       | Rohde & Schwarz | 826148/002   | May 2002  | 1 Year   |
| <u>      </u> | - Test Receiver     | ESVS10       | Rohde & Schwarz | 832699/001   | May 2002  | 1 Year   |
|               | - Spectrum Analyzer | 8560E        | Hewlett Packard | 3240A00189   | Nov. 2001 | 1 Year   |
|               | - Spectrum Analyzer | 8566B        | Hewlett Packard | 2140A01091   | Mar. 2002 | 1 Year   |
| <u>  x  </u>  | - RF Pre-selector   | 85685A       | Hewlett Packard | 2648A00522   | Oct. 2001 | 1 Year   |
| <u>  x  </u>  | - Spectrum Analyzer | 8566B        | Hewlett Packard | 2747A05855   | Apr. 2002 | 1 Year   |
| <u>      </u> | - RF Pre-selector   | 85685A       | Hewlett Packard | 2091A00933   | Apr. 2002 | 1 Year   |
| <u>      </u> | - RF Cable(2m)      | SUCOFLEX 104 | Suhner          | 155-21-012E0 | May 2002  | 1 Year   |
| <u>      </u> | - RF Cable(1m)      | SUCOFLEX 104 | Suhner          | 155-21-013E0 | May 2002  | 1 Year   |

**1.4 EUT MODIFICATION / Deviation from Standard****1.4.1 EUT MODIFICATION**

- x   -No modifications were conducted by JQA to achieve compliance to Class B levels.  
     - To achieve compliance to Class B levels, the following changes were made by JQA  
          during the compliance test.

The modifications will be implemented in all production models of this equipment.

Applicant :

Date :

Typed Name :

Position :

**1.4.2 Deviation from Standard:**

- x   -No deviations from the standard described in clause 1.1.  
     - The following deviations were employed from the standard described in clause 1.1.

\_\_\_\_\_

\_\_\_\_\_

## 1.5 TEST RESULTS / UNCERTAINTY

AC Power Line Conducted Emission      - Applicable   x   - NOT Applicable

The requirements are      - PASSED      - NOT PASSED

Min. Limit Margin dB at MHz

Max. Limit Exceeding dB at MHz

Uncertainty of Measurement Results +/- 2.4 dB (level of confidence:95%)

Remarks :

Radiated Emission [§15.109(a)] x - Applicable      - NOT Applicable

The requirements are   x   - PASSED      - NOT PASSED

Min. Limit Margin 11.2 dB at 64.0 MHz

Max. Limit Exceeding dB at MHz

Uncertainty of Measurement Results

Biconical Antenna +/- 3.8 dB (level of confidence:95%)

Log-Periodic Antenna +/- 4.7 dB (level of confidence:95%)

Half Wave Dipole Antenna +/- 3.4 dB (level of confidence:95%)

Remarks:

Antenna Conducted Power [§15.111]   x   - Applicable      - NOT Applicable

The requirements are   x   - PASSED      - NOT PASSED

Min. Limit Margin Greater than 20.0 dB at MHz

Max. Limit Exceeding dB at MHz

Uncertainty of Measurement Results +/- 2.1 dB (level of confidence:95%)

Remarks:

**1.6 SUMMARY****General Remarks :**

The RJT was tested according to the requirements of FCC Rules and Regulations Part 15 Subpart A and B (June 23, 1989) under the test configuration, as shown in clause 1.7 to 1.10.

The conclusion for the test items which are required by the applied regulation is indicated under the final judgment.

**Final Judgment :**

The "as received" sample;

- x - fulfill the test requirements of the regulation mentioned on clause 1.1.
- fulfill the test requirements of the regulation mentioned on clause 1.1, but with certain qualifications.
- doesn't fulfill the test regulation mentioned on clause 1.1.

Begin of testing : August 27, 2002

End of testing : August 27, 2002

- JAPAN QUALITY ASSURANCE ORGANIZATION -

Approved by:



Masaaki Takahashi

Senior Manager

JQA EMC Engineering Dept.

Signatories:

Issued by:



Shigeru Osawa

Assistant Manager

JQA EMC Engineering Dept.

**1.7 TEST CONFIGURATION / OPERATION OF EUT****1.7.1 Test Configuration**

The equipment under test (EUT) consists of :

| Symbol | Item          | Manufacturer      | Model No. | FCC ID      | Serial No. |
|--------|---------------|-------------------|-----------|-------------|------------|
| A      | TPMS Receiver | OMRON Corporation | G8D-360M  | OUCG8D-360M | None       |

The measurement was carried out with the following support equipment connected :

| Symbol | Item      | Manufacturer      | Model No. | Serial No. |
|--------|-----------|-------------------|-----------|------------|
| B      | Simulator | OMRON Corporation | None      | None       |

Type of Cable :

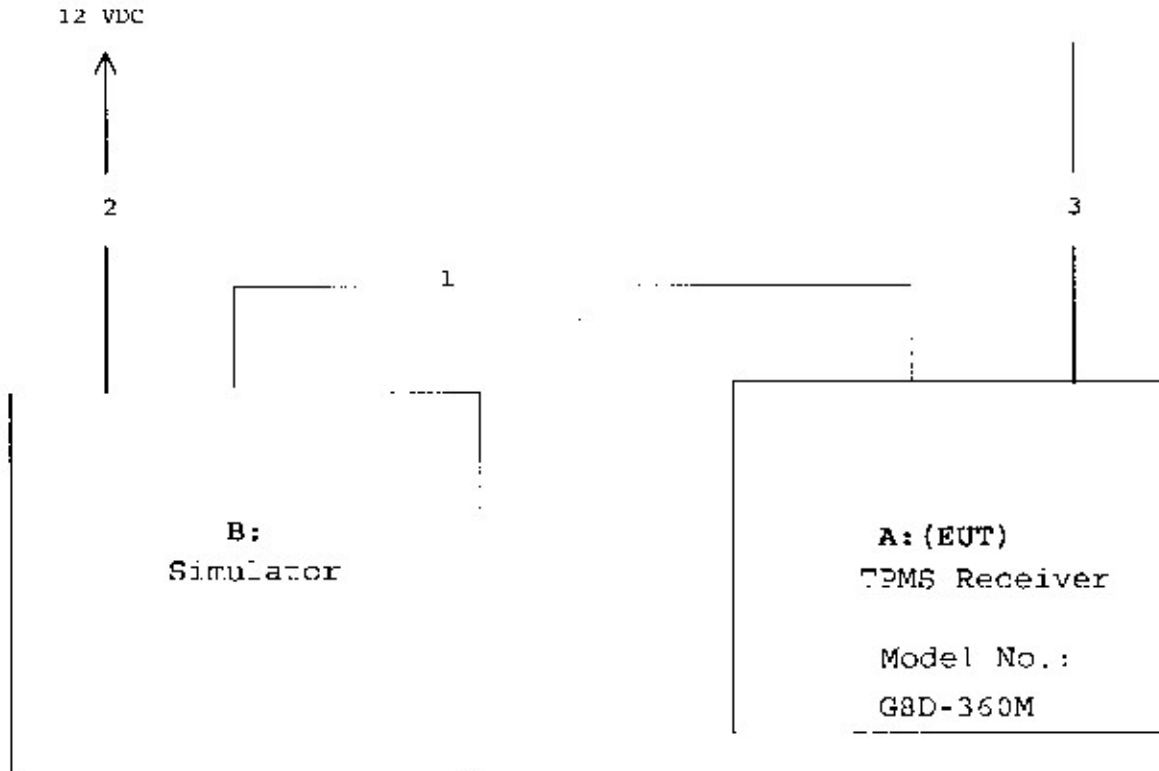
| Symbol | Description   | Identification<br>(Manufacturer etc.) | Shielded<br>YES / NO | Ferrite<br>Core | Connector Type<br>Shielded<br>YES / NO | Length<br>(m) |
|--------|---------------|---------------------------------------|----------------------|-----------------|----------------------------------------|---------------|
| 1      | Cable         | -                                     | NO                   | NO              | NO                                     | 0.3           |
| 2      | Cable         | -                                     | NO                   | NO              | NO                                     | 0.5           |
| 3      | Antenna Cable | -                                     | YES                  | NO              | YES                                    | 0.3           |

**1.7.2 Operating condition**

Power supply Voltage : DC 12V

The tests have been carried out under the receiving condition.

## 1.8 EUT ARRANGEMENT (DRAWINGS)



## 1.9 PRELIMINARY TEST AND TEST-SETUP (DRAWINGS)

### 1.9.1 AC Power Line Conducted Emission ( 450 kHz - 30 MHz ) :

According to description of ANSI C63.4-1992 sec.7.2.3, the AC power line preliminary conducted emissions measurements were carried out.

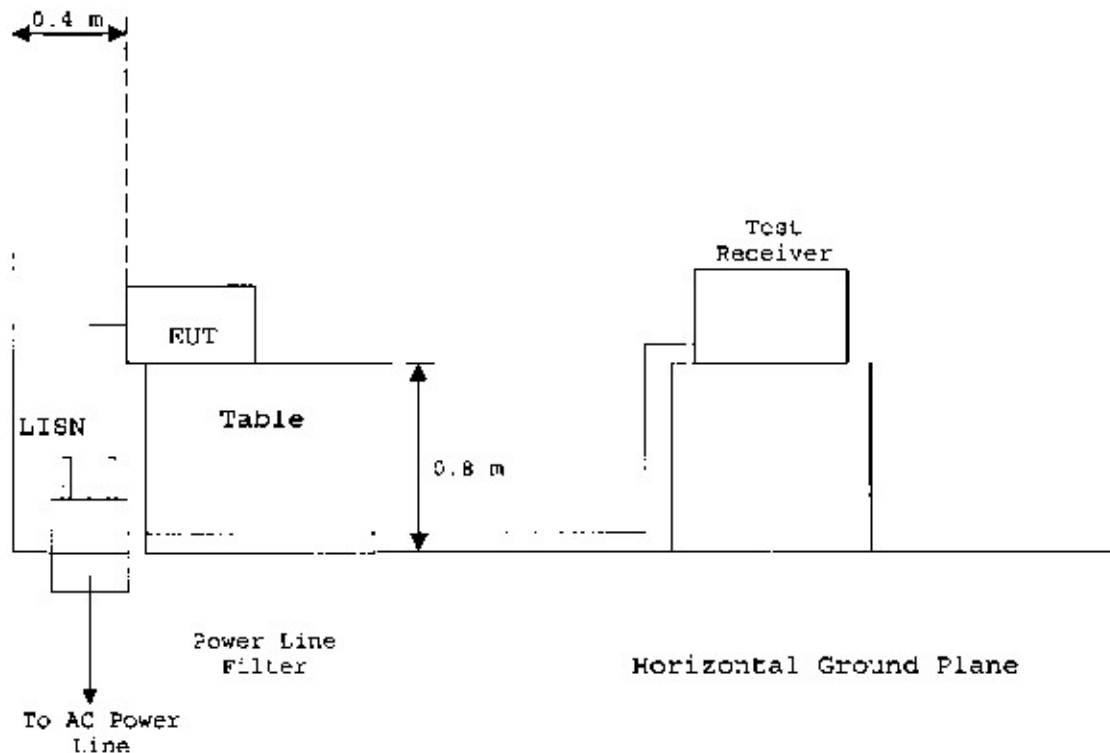
The preliminary conducted measurements were performed using the spectrum analyzer to observe the emission characteristics of the EUT.

The EUT configuration, cable configuration and mode of operation were determined for producing the maximum level of emissions. These configurations were used for final AC power line conducted emissions measurements.

### Shielded Enclosure

- Side View -

Vertical  
Ground  
Plane



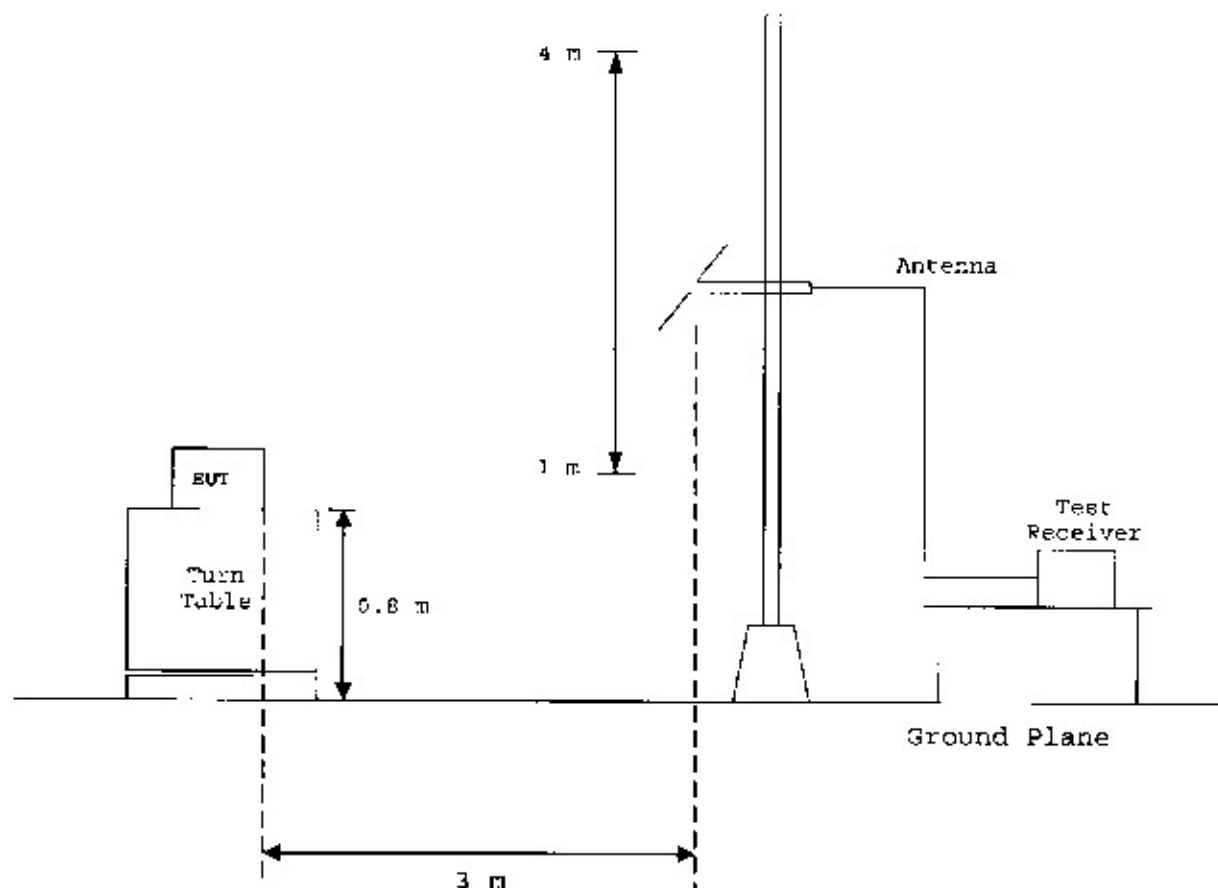
## 1.9.2 Radiated Emission ( 30 MHz - 1000 MHz ) :

According to description of ANSI C63.4-1992 sec.8.3.1.1, the preliminary radiated emissions measurements were carried out. The preliminary radiated measurements were performed at the measurement distance that specified for compliance to determine the emission characteristics of the EUT.

The EUT configuration, cable configuration and mode of operation were determined for producing the maximum level of emissions. These configurations were used for the final radiated emissions measurements.

### Anechoic Chamber

- Side View -



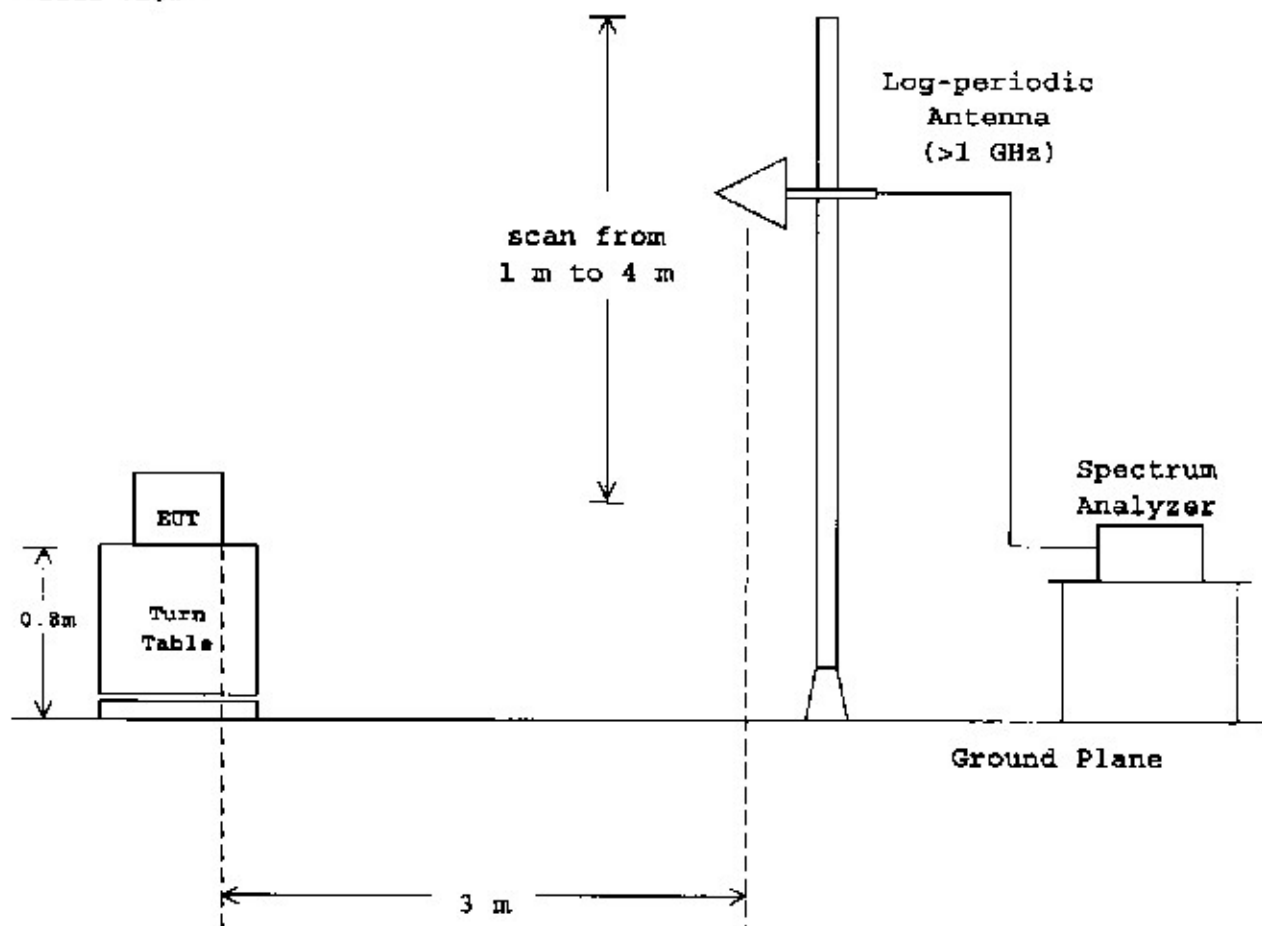
## 1.9.3 Radiated Emission (Above 1 GHz) :

According to description of ANSI C63.4-1992 sec.8.3.1.1, the preliminary radiated emissions measurements were carried out. The preliminary radiated measurements were performed at the measurement distance that specified for compliance to determine the emission characteristics of the EUT.

The EUT configuration, cable configuration and mode of operation were determined for producing the maximum level of emissions. These configurations were used for the final radiated emissions measurements.

## Anechoic Chamber

- Side View -



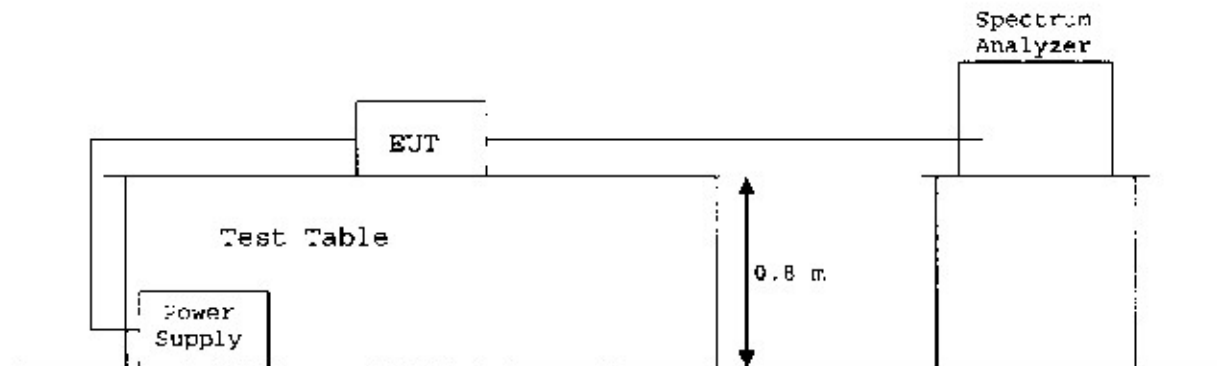
**1.9.4 Antenna Conducted Power :**

According to description of ANSI C63.4-1992 sec.12.1.5, the antenna conducted power measurements were carried out.

Antenna-conducted power measurements shall be performed with the EUT antenna terminals connected directly to either a spectrum analyzer or another measuring instrument, if the antenna impedance matches the impedance of the measuring instrument. Otherwise, use a balun or impedance-matching network to connect the measuring instrument to antenna terminals of the EUT. Losses in decibels in any balun or impedance-matching network used shall be added to the measured value in dBμV.

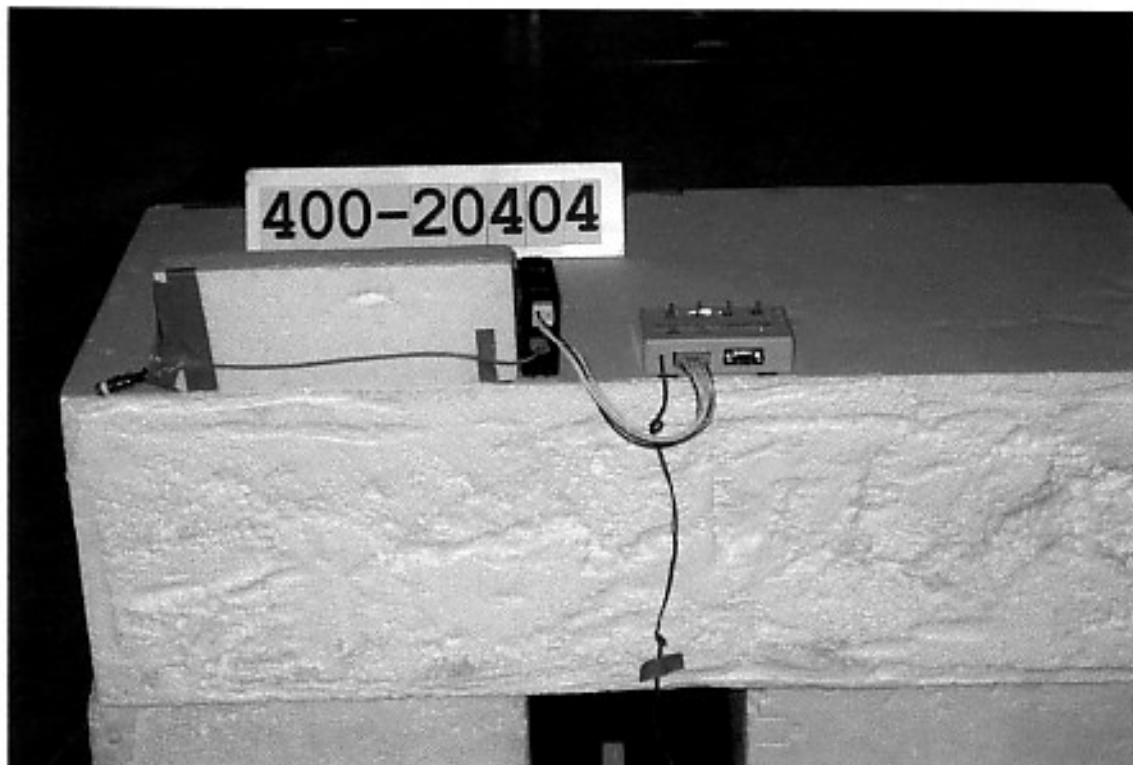
**Shielded Enclosure**

- Side View -



**1.10 TEST ARRANGEMENT (PHOTOGRAPHS)****PHOTOGRAPHS OF EUT CONFIGURATION FOR RADIATED EMISSIONS MEASUREMENT**

Photograph present configuration with maximum emission





## TEST DATA

### 2.2 Radiated Emissions Measurement

Tuning Frequency : 433.92 MHz

Distance of Measurement : 3.0 meters

Date : August 27, 2002

Temp. : 22 °C Humid. : 68 %

| Frequency<br>(MHz) | P-A<br>Factor<br>(dB) | Antenna<br>Factor<br>(dB) | Polarization | Meter Reading<br>(dBuV) |    |      | Limits<br>(dBuV/m) |      | Emission Levels<br>(dBuV/m) |      | Margins<br>(dB) |      |
|--------------------|-----------------------|---------------------------|--------------|-------------------------|----|------|--------------------|------|-----------------------------|------|-----------------|------|
|                    |                       |                           |              | QP                      | AV | Peak | QP/AV              | Peak | QP/AV                       | Peak | QP/AV           | Peak |
| 40.0               | 0.0                   | 12.3                      | V            | 3.5                     | -  | -    | 40.0               | -    | 15.8                        | -    | 24.2            | -    |
| 56.0               | 0.0                   | 9.3                       | V            | 13.9                    | -  | -    | 40.0               | -    | 23.2                        | -    | 16.8            | -    |
| 64.0               | 0.0                   | 7.1                       | V            | 21.7                    | -  | -    | 40.0               | -    | 28.6                        | -    | 11.2            | -    |
| 72.0               | 0.0                   | 6.0                       | V            | 14.5                    | -  | -    | 40.0               | -    | 21.1                        | -    | 18.9            | -    |
| 80.0               | 0.0                   | 7.6                       | V            | 10.4                    | -  | -    | 40.0               | -    | 18.0                        | -    | 22.0            | -    |
| 192.0              | 0.0                   | 17.6                      | H            | 0.2                     | -  | -    | 43.5               | -    | 17.8                        | -    | 25.7            | -    |

Notes :

- 1) The spectrum was checked from 30 MHz to 2000 MHz.
- 2) The cable loss is included in the antenna factor.
- 3) The symbol of "<" means "or less".
- 4) The symbol of ">" means "or greater".
- 5) A sample calculation(QP/AV) was made at 40 (MHz):  
 $PA + Af + Mr = 0 + 12.3 - 3.5 = 15.8 \text{ (dBuV/m)}$   
 PA = Peak to Average Factor(P-A Factor);  
 Af = Antenna Factor  
 Mr = Meter Reading

6) Measuring Instrument Setting :

| Detector function | Resolution | Bandwidth | Video Bandwidth |
|-------------------|------------|-----------|-----------------|
| Quasi-peak(QP)    | 120 kHz    | -         | -               |
| Average(AV)       | 1 MHz      | 10 Hz     | -               |
| Peak              | 1 MHz      | 1 MHz     | -               |

Tested by :

*Y. Nakajima*

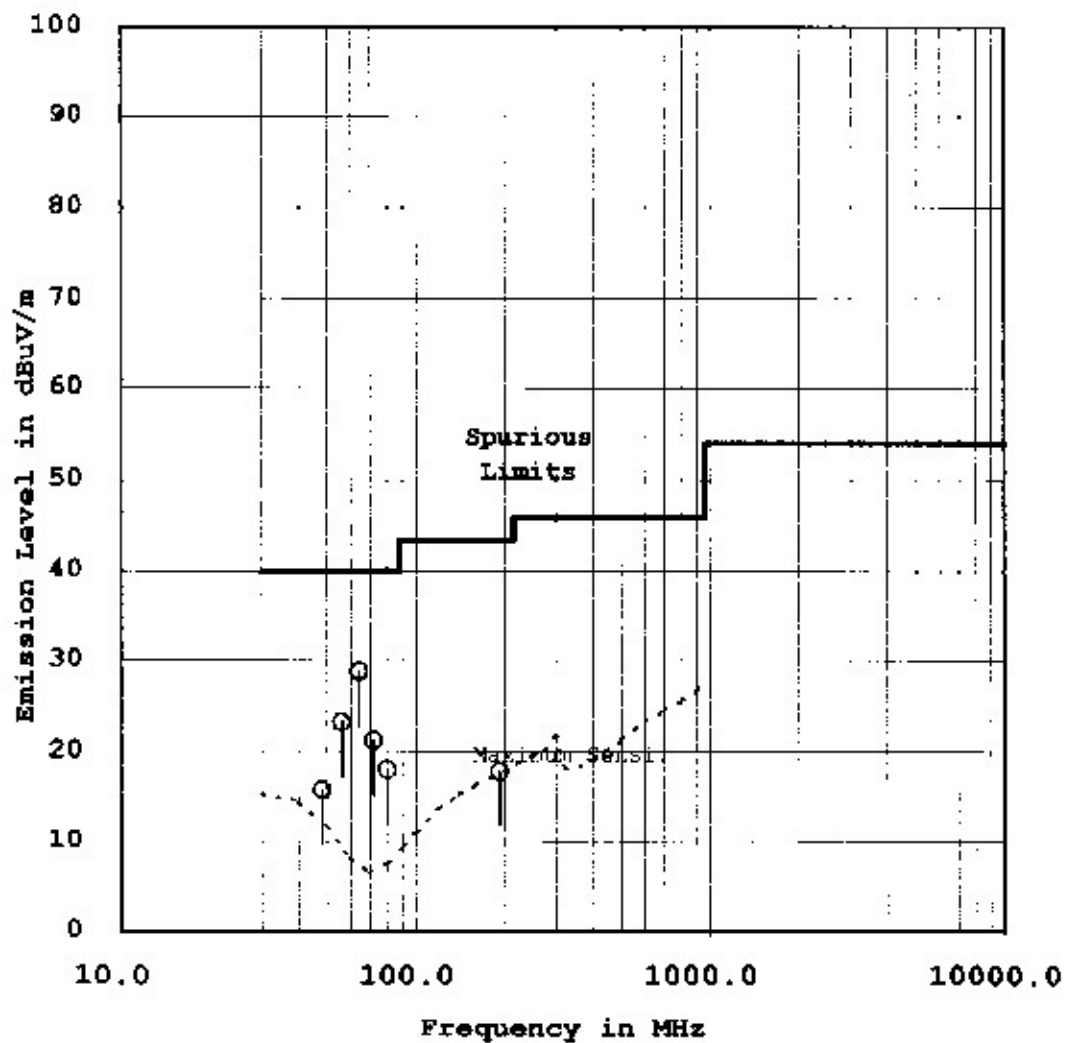
Yoichi Nakajima

Testing Engineer

## RADIATED EMISSION MEASUREMENT

Model No. : G8D-360M

Standard : CFR 47 FCC Rules Part 15 QP/AV  
Tuning Frequency(MHz) : 433.92



### 2.3 Antenna Conducted Power Measurement

Date : August 27, 2002  
Temp.: 22 °C Humi.: 68 %Tuning Frequency : 433.92 MHz  
Antenna Impedance : 50 ohms

No spurious emissions in the range 20 dB below the limit.

Note: 1. The spectrum was checked from 30 MHz to 2000 MHz.

2. Specified Limit:

$$10\log(2[\text{nW}]/1000000) + 107 = 50 \text{ dB}\mu\text{V}$$

3. Measuring Instrument Setting:

Below 1000 MHz

Detector function : CISPR Quasi-peak

IF Bandwidth : 120 kHz

Above 1000 MHz

Detector function : Peak

IF Bandwidth : 1 MHz

Video Bandwidth : 1 MHz

Tested by :

Y. Nakajima

Yoichi Nakajima

Testing Engineer