

Test Report

TEST PROCEDURES AND TEST SITE DESCRIPTION

| MEASUREMENT ITEMS | Section No. |
|--|-----------------------|
| 1. DC Voltage & Current into Final Device | 2.1033(C)(8) |
| 2. RF Output Power | 2.1046 |
| 3. Modulation Characteristics (Audio Roll-off) | 2.1047 & 80.213 |
| 4. Modulation Characteristics (Audio Frequency Response) | 2.1047 |
| 5. Modulation Characteristics (Modulation Limiting) | 2.1047 |
| 6. Occupied Bandwidth | 2.1049(c)(1) & 80.211 |
| 7. Spurious & Harmonic Emission at Antenna Terminal | 2.1051 |
| 8. Field Strength of Spurious & Harmonic Radiation | 2.1053 |
| 9. Frequency Stability (Temperature) | 2.1055 & 80.209 |
| 10. Frequency Stability (Voltage) | 2.1055 & 80.209 |
| 11. Receiver radiated spurious emissions | 80.217(b) |

NOTE: List of measurement equipment and test site description are included in this EXHIBIT.

1. DC Voltage & Current into Final Device 2.1033(C)(8)

To measure the DC Voltage and Current into Final Amplifying Device, the measuring equipment was connected to the actual P.C.Board of the transmitter.

FCC limits: Not specified

Test Results: Refer to test data

2. RF Output Power 2.1046

The unit was tuned-up in accordance with the alignment procedure stated in the EXHIBIT-6, and was loaded into a 50-ohm resistive termination. The unit was powered through its normally supplied power cable by a DC power supply. Power supply voltage was set to nominal voltage at the power supply terminals with the transmitter off.

The unit was operated for three consecutive test cycles of 15 minutes standby and 5 minutes in transmitting. At the end of the third 5 minutes period, the RF output power is measured. During the test, no components of the emission spectrum exceed the limit specified in the applicable rule part for occupied bandwidth or emission limitations.

FCC limits: Not specified

Test Results: Refer to test data

3. Modulation Characteristics (Audio Roll-off) 2.1047 & 80.213

To measure the audio roll-off filter response, an audio frequency oscillator and AF VTVM were connected to the actual P.C.Board of the transmitter. AF VTVM and an oscilloscope monitored the output of the audio filter. An AF input level was maintained was maintained constant at least 10 dB below the saturation level at maximum response frequency. The measurement was made under the above conditions by varying the frequency between 1 kHz and 100 kHz.

FCC limits: 3 kHz - 15 kHz: $-40 \log_{10} (F/3)$ dB
Above 20kHz : At least -28 dB

Test Results: Refer to test data

4. Modulation Characteristics (Audio Frequency Response) 2.1047

Operate the unit under the standard test conditions and monitor the output with a modulation or a calibrated test receiver. With a 1000 Hz sine wave (applied through a dummy microphone circuit) used as a 0 dB reference, vary the modulating frequency from 300 to 3000 Hz and observe the level necessary to maintain a constant 30% modulation.

FCC limits: 300 - 3000 Hz: 6dB/octave roll-off (+1/-3 dB)

Test Results: Refer to test data

5. Modulation Characteristics (Modulation Limiting) 2.1047

The transmitter shall be adjusted for full rated system deviation, 1000 Hz and reference it as 0dB input. With modulation frequencies of 300, 1000 and 3000 Hz respectively, vary the audio input to a level 20dB above that required at 100 Hz to produce 60% of rated system deviation. This is required for both up to and down modulation. Record the percent of full system deviation obtained as a function of input level.

FCC limits: +/-5 kHz deviation

Test Results: Refer to test data

6. Occupied Bandwidth 2.1049(c)(1) & 80.211

The spectrum of the modulated carrier was monitored by a panoramic method capable of 60dB amplitude range. The unit was modulated with a 2500 Hz audio signal at an input level 16dB above that required for 50% of maximum system deviation.

In case the 100Hz of CTCSS tone or 100 bps of digital coded data modulation is indicated for this transmitter, a representative measurement data for this operation is also presented.

Since the total deviation of the unit is designed as 4.7 kHz Div., the deviation of 2500Hz audio signal was set to 3.7 kHz Div., as the maximum deviation of tone or digital coded signal was continuously set to 1.0 kHz Div.

At first, tone or digital signal was disabled and set the 2500 Hz

audio signal to 1.85 kHz deviation (= 50% of 3.7 kHz deviation). Then, the input level of 2500Hz audio signal was increased by 16dB. In this condition, the tone or digital coded signal was then enabled and imposed with 2500Hz audio signal.

FCC limits: a) -25dB (50 - 100% of assigned frequency)
b) -35dB (100 - 250% of assigned frequency)
c) $43 + 10\log_{10}$ (RF output power in Watts) dB
or 80dB, whichever is lesser attenuation
for more than 250% of assigned frequency

Test Results: Refer to test data

7. Spurious & Harmonic Emission at Antenna Terminal 2.1051

Spurious radiation are the radio frequency voltage or power generated within the equipment and appearing at the equipment's output terminals when properly loaded with its characteristic non-radiating load.

The unit was modulated with a 2500 Hz tone at an input level 16dB greater than that required 50% modulation. The spectrum was scanned from the lowest frequency generated in the equipment to the tenth harmonic of the carrier.

FCC limits: $43 + 10\log_{10}$ (RF output power in Watts) dB

Test Results: Refer to test data

8. Field Strength of Spurious & Harmonic Radiation 2.1053

Measurement Procedure & Test Site Description

Field strength measurements of radiated spurious emissions were made on a 3-meter range maintained by Uniden Corporation in Japan. Complete description and measurement data of this test site have been placed on file with the Commission. The equipment was scanned for radiated emissions in a scheduled enclosure prior to open field testing.

For each spurious or harmonic frequency, the antenna was raised and lowered to obtain a maximum reading on the Spectrum Analyzer with antenna horizontally polarized. Then the turntable, on which the equipment under test was placed, was rotated a minimum of 360 degree to further increase the reading on the Spectrum Analyzer. This procedure was repeated with the antenna vertically polarized.

FCC limits: $43 + 10\log_{10}$ (RF output power in Watts) dB

Test Results: Refer to test data

9. Frequency Stability (Temperature) 2.1055 & 80.209

Frequency measurement was performed at the extremes of throughout the range -20 °C to +50 °C and at intervals of not more than 10 degrees C throughout the range. A period of time sufficient to stabilize all of the components in the equipment was allowed prior to frequency measurement.

The frequency of the unit was measured by extracting a sample of the carrier and measuring its center frequency by equipment having a degree accuracy at least 10 times that of the minimum to be measured.

FCC limits: $\pm 0.001\%$

Test Results: Refer to test data

10. Frequency Stability (Voltage) 2.1055 & 80.209

Frequency measurement was performed at the extremes of throughout the range 85% and 115% of the nominal voltage. Extracting a sample of the carrier and measuring its center frequency by equipment having degree accuracy at least 10 times that of the minimum to be measured measured the frequency of the unit.

FCC limits: $\pm 0.001\%$

Test Results: Refer to test data

11. Receiver radiated spurious emissions

80.217(b)

Regarding the electromagnetic field strength at a distance of over sea water of one nautical mile, the value of field strength in the range of visible distance, which will be emitted from $1/2\lambda$ dipole antenna, results from the combination of the direct field component (free space field) and the ground reflected field component.

Therefore, assuming that the ground is a flat perfect conductor, the maximum value of field strength in cases of varying the antenna high at the test point should be extrapolated to indicate two as large as the value in free space field.

At the actual test site in the range of 10 feet of distance, the following formula can be considered to make up on an average, though it may include a little bit error. And, this fact is surely confirmed at our test site.

Accordingly, the value of field strength measured at the distance of 10 feet (3-meters) away shall be formulated as follows;

$$E_3 = 2 \times E_0 = 2 \times \sqrt{P} / r \text{ (V/m)} \text{ ----- (1)}$$

where: E_3 : Field strength at the distance of 3 m (V/m)

E_0 : Field strength in free space field (V/m)

P : Power into $1/2\lambda$ dipole antenna (Watts)

r : Distance from test point to dipole antenna (m)

Also, in the surface over seawater, since it can be supposed that the sea surface rather keeps better conductor condition, the above (1).

Therefore, the value of field strength at the distance of one nautical mile (1852 m) E_{1852} shall be calculated as below;

$$\begin{aligned} E_{1852} &= E_3 \times 14 \times \sqrt{P} / 1852 \\ &= E_3 \times 3 / 1852 \\ &= E_3 / 620 \text{ ----- (2)} \end{aligned}$$

Test Results: Refer to test data

TEST DATA

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1. DC Voltage & Current into Final Device

2.1033(C) (8)

| FULL POWER MODE | | TX FINAL TRANSISTOR | |
|-----------------------------|-------------------------|--------------------------|--------------------------|
| MEASURED FREQUENCY (MHz) | OUTPUT POWER (Watts) | COLLECTOR VOLTAGE (V) | COLLECTOR CURRENT (A) |
| 156.05 | 4.9 | 7.3 | 1.4 |
| 156.8 | 4.9 | 7.3 | 1.4 |
| 157.425 | 4.9 | 7.3 | 1.4 |

| REDUCED POWER MODE | | TX FINAL TRANSISTOR | |
|-----------------------------|-------------------------|--------------------------|--------------------------|
| MEASURED FREQUENCY (MHz) | OUTPUT POWER (Watts) | COLLECTOR VOLTAGE (V) | COLLECTOR CURRENT (A) |
| 156.05 | 1 | 7.4 | 0.7 |
| 156.8 | 1 | 7.4 | 0.7 |
| 157.425 | 1 | 7.4 | 0.7 |

2. RF Output Power

2.1046

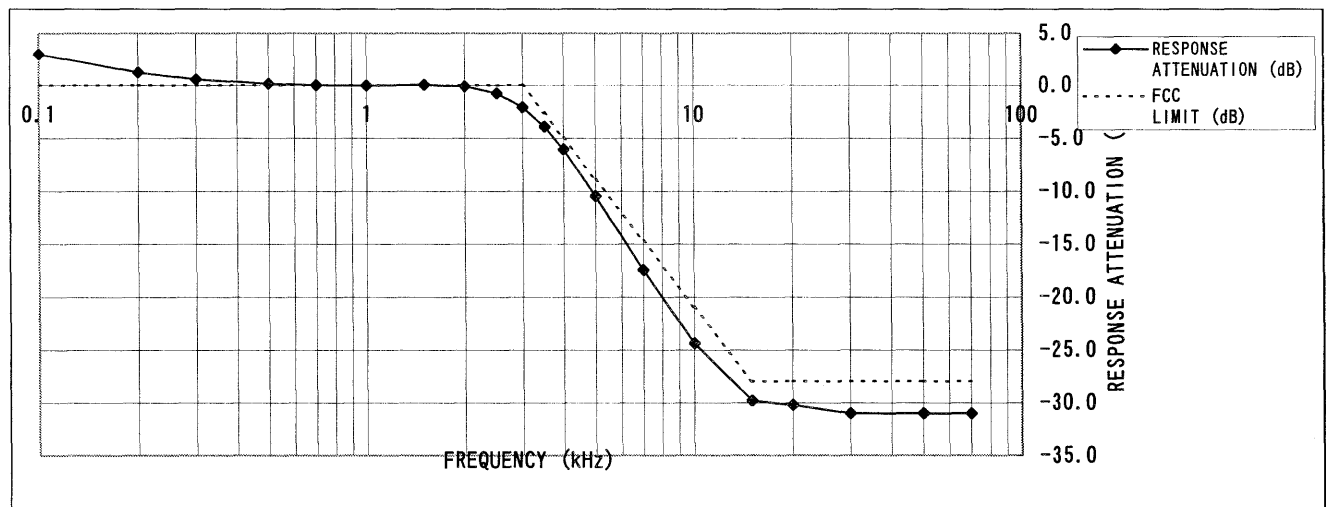
| MEASURED FREQUENCY (MHz) | FULL POWER (Watts) | REDUCED POWER (Watts) |
|-----------------------------|-----------------------|--------------------------|
| 156.05 | 4.95 | 1 |
| 156.8 | 4.95 | 1 |
| 157.425 | 4.91 | 1 |

3. MODULATION CHARACTERISTICS (AUDIO ROLL-OFF RESPONSE)

2.987 & 80.213

CARRIER FREQUENCY: 156.80 MHz
OUTPUT POWER: 1 WATTS

| AUDIO FREQUENCY (kHz) | RESPONSE ATTENUATION (dB) | FCC LIMIT (dB) |
|-----------------------------|---------------------------------|----------------------|
| 0.1 | 3.0 | -- |
| 0.2 | 1.2 | -- |
| 0.3 | 0.6 | -- |
| 0.5 | 0.1 | -- |
| 0.7 | 0.0 | -- |
| 1 | 0.0 | -- |
| 1.5 | 0.0 | -- |
| 2 | -0.1 | -- |
| 2.5 | -0.8 | -- |
| 3 | -2.1 | 0.0 |
| 3.5 | -3.9 | -2.6 |
| 4 | -6.1 | -5.0 |
| 5 | -10.4 | -8.9 |
| 7 | -17.5 | -14.7 |
| 10 | -24.4 | -21.0 |
| 15 | -29.8 | -28.0 |
| 20 | -30.2 | -28.0 |
| 30 | -31.0 | -28.0 |
| 50 | -31.0 | -28.0 |
| 70 | -31.0 | -28.0 |



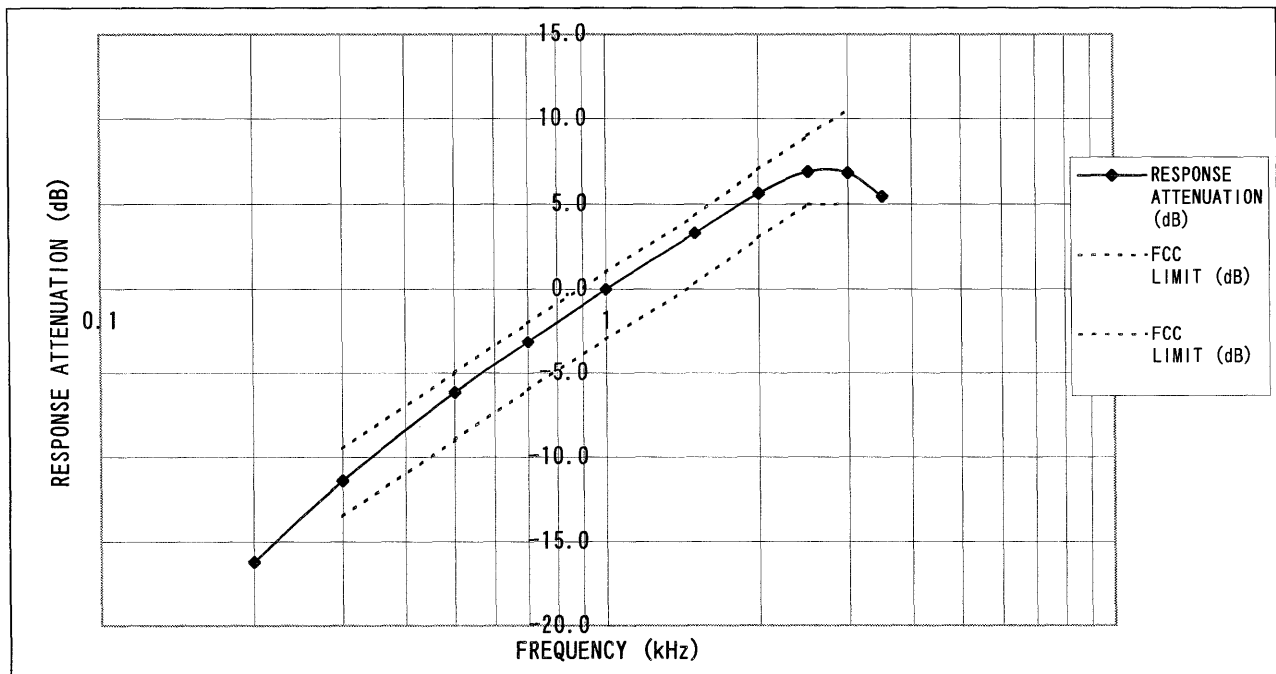
4. MODULATION CHARACTERISTICS (AUDIO FREQUENCY RESPONSE)

2.1047

CARRIER FREQUENCY: 156.80 MHz

OUTPUT POWER: 1 WATTS

| AUDIO FREQUENCY (kHz) | RESPONSE ATTENUATION (dB) | FCC LIMIT (dB) | |
|-----------------------------|---------------------------------|----------------------|-------|
| 0.1 | — | | |
| 0.2 | -16.2 | | |
| 0.3 | -11.4 | -9.5 | -13.5 |
| 0.5 | -6.1 | -5.0 | -9 |
| 0.7 | -3.2 | -2.0 | -6 |
| 1 | 0 | 1.0 | -3 |
| 1.5 | 3.3 | 4.3 | 0.3 |
| 2 | 5.7 | 7.0 | 3 |
| 2.5 | 6.9 | 9.0 | 5 |
| 3 | 6.8 | 10.5 | 5 |
| 3.5 | 5.5 | | |
| 3.9 | — | | |



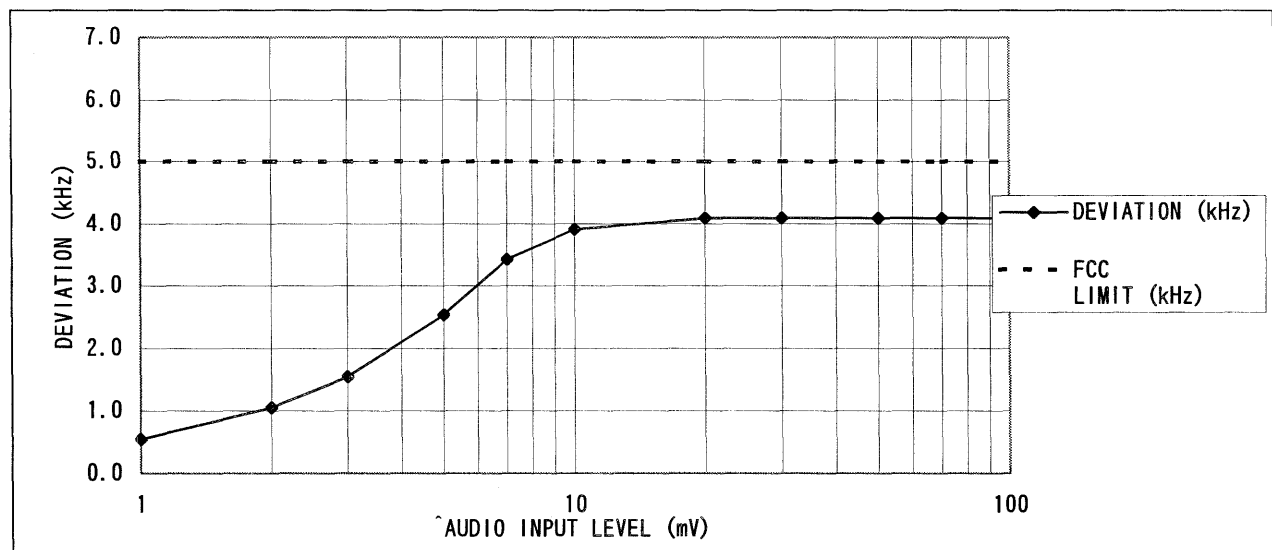
5. MODULATION CHARACTERISTICS (MODULATION LIMITING)

2.1047

CARRIER FREQUENCY: 156.80 MHz

OUTPUT POWER: 1 WATTS

| AUDIO INPUT LEVEL | DEVIATION | FCC LIMIT |
|----------------------|-----------|--------------|
| (mV) | (kHz) | (kHz) |
| 1 | 0.6 | 5.0 |
| 2 | 1.1 | 5.0 |
| 3 | 1.6 | 5.0 |
| 5 | 2.5 | 5.0 |
| 7 | 3.4 | 5.0 |
| 10 | 3.9 | 5.0 |
| 20 | 4.1 | 5.0 |
| 30 | 4.1 | 5.0 |
| 50 | 4.1 | 5.0 |
| 70 | 4.1 | 5.0 |
| 100 | 4.1 | 5.0 |
| | | |
| | | |
| | | |
| | | |

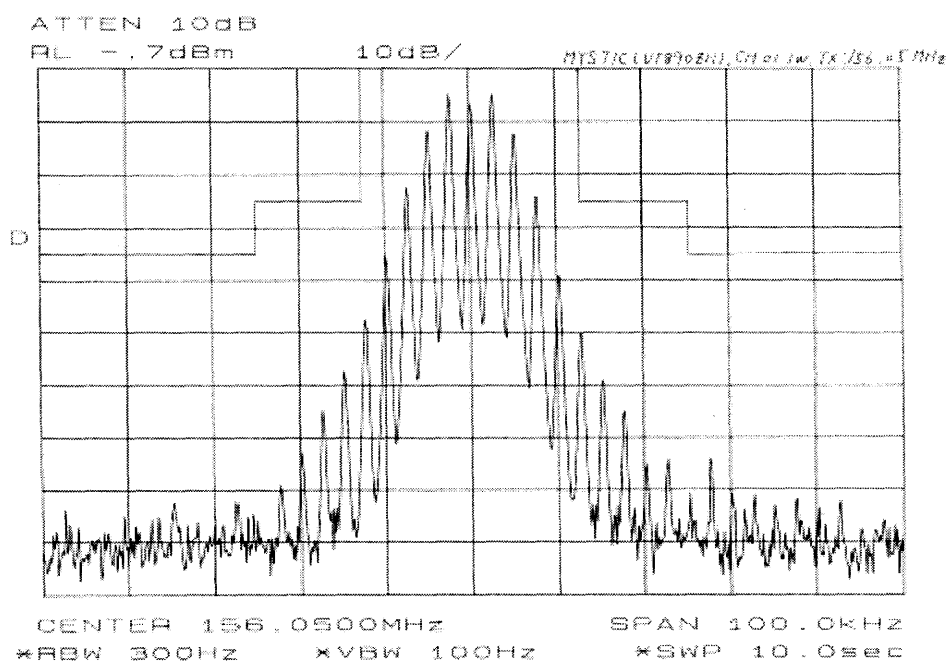


6-1. OCCUPIED BANDWIDTH

2.1049(c)(1) & 80.211

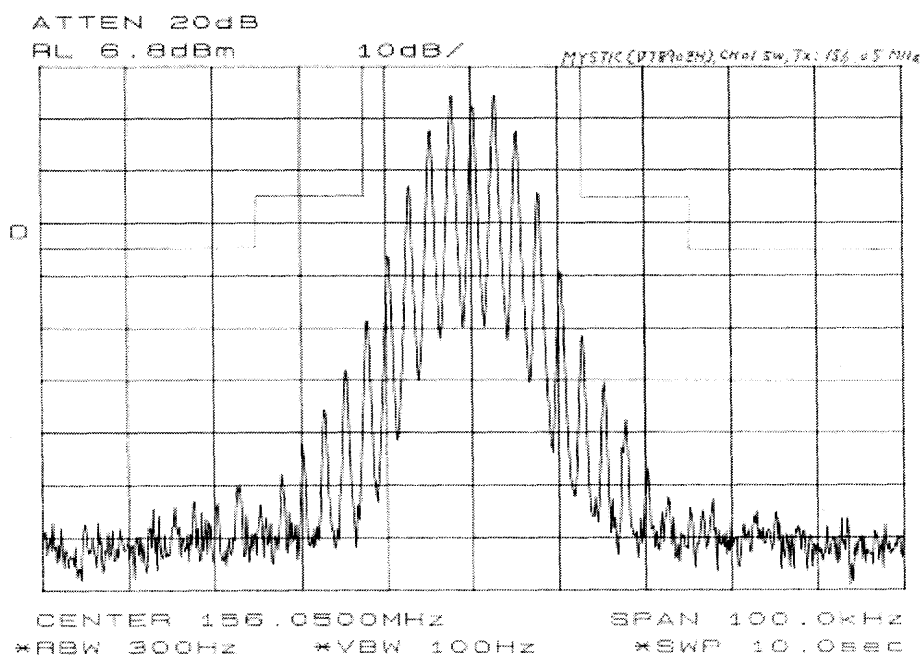
CH1 1W

MYSTIC(UT890ZH), CH1 1W, TX:156.05MHz

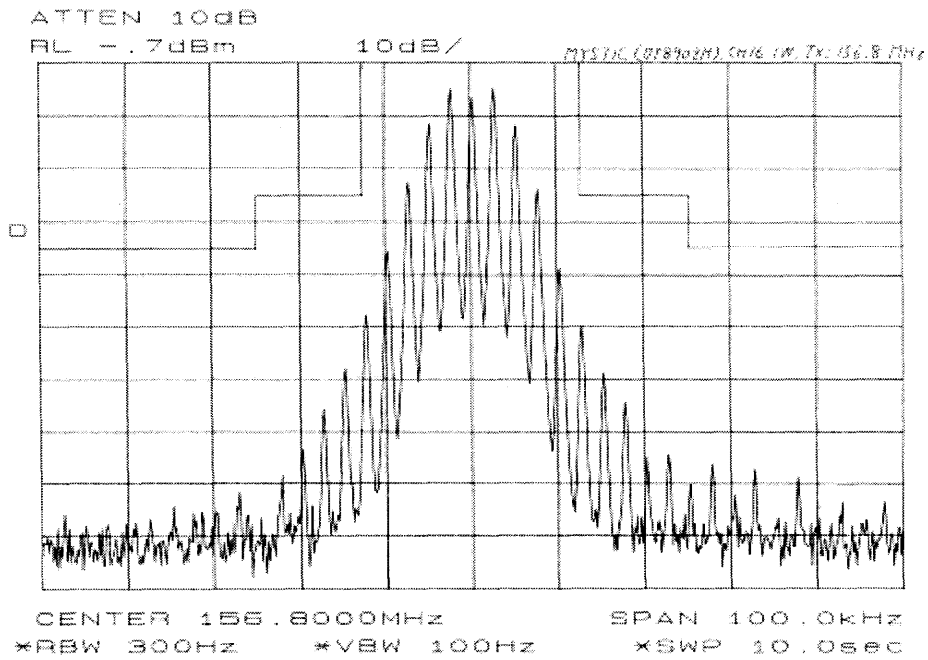
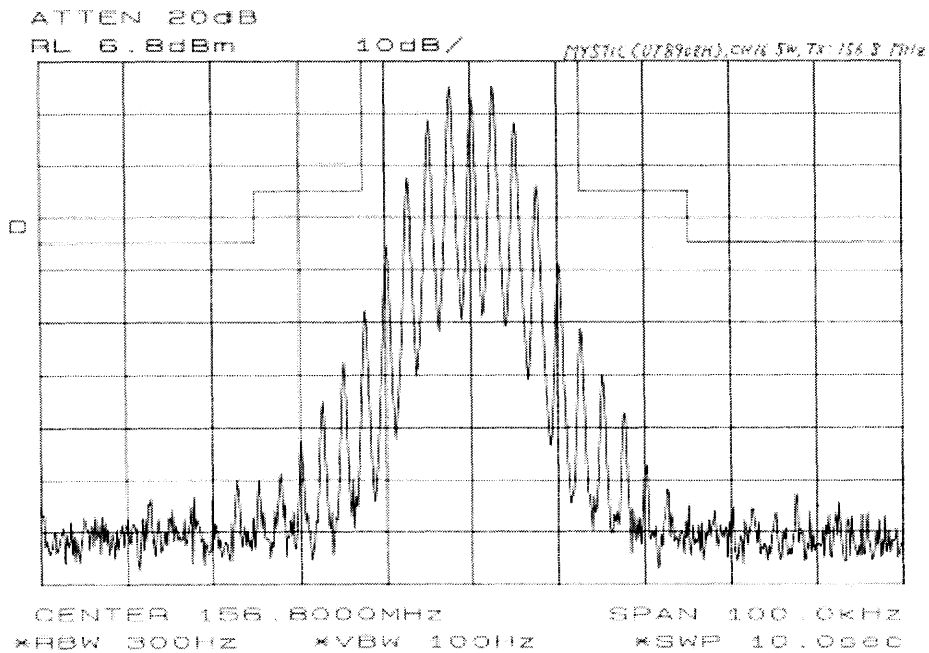


CH1 5W

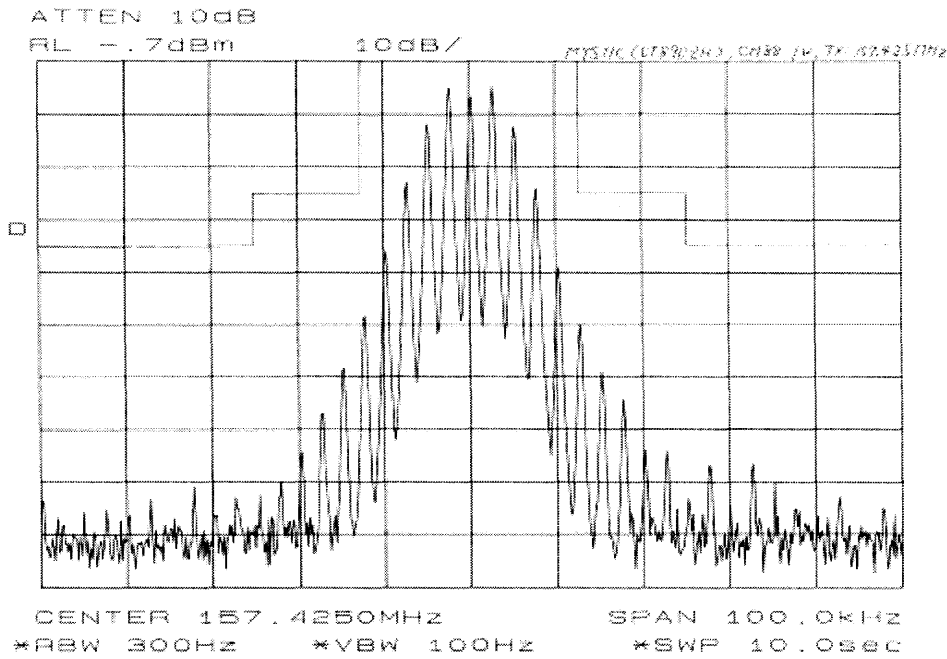
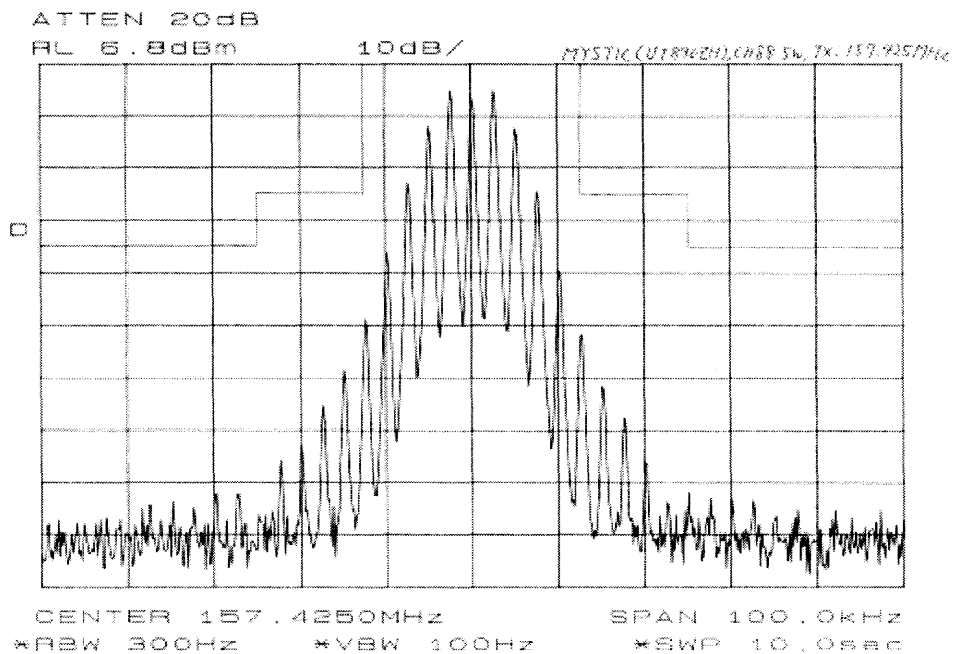
MYSTIC(UT890ZH), CH1 5W, TX:156.05MHz



6-2. OCCUPIED BANDWIDTH

CH16 1W MYSTIC(UT890ZH), CH16 1W, TX:156.8MHz**CH16 5W** MYSTIC(UT890ZH), CH16 5W, TX:156.8MHz

6-3. OCCUPIED BANDWIDTH

CH88 1W MYSTIC(UT890ZH), CH88 1W, TX:157.425MHz**CH88 5W** MYSTIC(UT890ZH), CH88 5W, TX:157.425MHz

7. SPURIOUS & HARMONICS EMISSION AT ANTENNA TERMINAL

2.1051

1) TX

Full Power

| Harmonics of Carrier | 156.05MHz [dBc] | 156.8MHz [dBc] | 157.425MHz [dBc] |
|-------------------------|--------------------|-------------------|---------------------|
| 1 | - | - | - |
| 2 | lesst than -85 | -83.0 | -84.0 |
| 3 | lesst than -85 | -84.0 | -84.0 |
| 4 | lesst than -85 | lesst than -85 | lesst than -85 |
| 5 | lesst than -85 | lesst than -85 | lesst than -85 |
| 6 | lesst than -85 | lesst than -85 | lesst than -85 |
| 7 | lesst than -85 | lesst than -85 | lesst than -85 |
| 8 | lesst than -85 | lesst than -85 | lesst than -85 |
| 9 | lesst than -85 | lesst than -85 | lesst than -85 |
| 10 | lesst than -85 | lesst than -85 | lesst than -85 |

Reduced Power

| Harmonics of Carrier | 156.05MHz [dBc] | 156.8MHz [dBc] | 157.425MHz [dBc] |
|-------------------------|--------------------|-------------------|---------------------|
| 1 | - | - | - |
| 2 | lesst than -85 | lesst than -85 | lesst than -85 |
| 3 | lesst than -85 | lesst than -85 | lesst than -85 |
| 4 | lesst than -85 | lesst than -85 | lesst than -85 |
| 5 | lesst than -85 | lesst than -85 | lesst than -85 |
| 6 | lesst than -85 | lesst than -85 | lesst than -85 |
| 7 | lesst than -85 | lesst than -85 | lesst than -85 |
| 8 | lesst than -85 | lesst than -85 | lesst than -85 |
| 9 | lesst than -85 | lesst than -85 | lesst than -85 |
| 10 | lesst than -85 | lesst than -85 | lesst than -85 |

2) RX

| CONDUCTED | 156.05-21.4MHz [dBm] | 156.8-21.4MHz [dBm] | 157.425-21.4MHz [dBm] |
|-----------|-------------------------|------------------------|--------------------------|
| 1 | -90.0 | -91.0 | -91.0 |
| 2 | lesst than -95 | lesst than -95 | lesst than -95 |
| 3 | lesst than -95 | lesst than -95 | lesst than -95 |
| 4 | lesst than -95 | lesst than -95 | lesst than -95 |
| 5 | lesst than -95 | lesst than -95 | lesst than -95 |
| 6 | lesst than -95 | lesst than -95 | lesst than -95 |
| 7 | lesst than -95 | lesst than -95 | lesst than -95 |
| 8 | lesst than -95 | lesst than -95 | lesst than -95 |
| 9 | lesst than -95 | lesst than -95 | lesst than -95 |
| 10 | lesst than -95 | lesst than -95 | lesst than -95 |

8. FIELD STRENGTH OF SPURIOUS & HARMONICS RADIATION

1) Frequency at which tuned: 156.05 MHz

| EMISSIONS (MHz) | DUT, PLACED V/H | ANT, POLARITY V/H | ATTENUATION (dB) | FCC LIMIT (dB) | MARGIN (dB) |
|---------------------|-----------------------|-------------------------|---------------------|-------------------|----------------|
| FULL POWER: 5 WATTS | | | | | |
| 312.100 | V | V | -72.5 | -47 | 25.5 |
| 468.150 | V | V | -75.5 | -47 | 28.5 |
| 624.200 | - | - | - | -47 | - |
| 780.250 | - | - | - | -47 | - |
| 936.300 | - | - | - | -47 | - |
| 1092.350 | - | - | - | -47 | - |
| 1248.400 | - | - | - | -47 | - |
| 1404.450 | - | - | - | -47 | - |

| EMISSIONS (MHz) | DUT, PLACED V/H | ANT, POLARITY V/H | ATTENUATION (dB) | FCC LIMIT (dB) | MARGIN (dB) |
|-----------------------|-----------------------|-------------------------|---------------------|-------------------|----------------|
| REDUCED POWER: 1 WATT | | | | | |
| 312.100 | - | - | - | -43 | - |
| 468.150 | - | - | - | -43 | - |
| 624.200 | - | - | - | -43 | - |
| 780.250 | - | - | - | -43 | - |
| 936.300 | - | - | - | -43 | - |
| 1092.350 | - | - | - | -43 | - |
| 1248.400 | - | - | - | -43 | - |
| 1404.450 | - | - | - | -43 | - |

2) Frequency at which tuned: 156.70 MHz

| EMISSIONS (MHz) | DUT, PLACED V/H | ANT, POLARITY V/H | ATTENUATION (dB) | FCC LIMIT (dB) | MARGIN (dB) |
|---------------------|-----------------------|-------------------------|---------------------|-------------------|----------------|
| FULL POWER: 5 WATTS | | | | | |
| 313.400 | V | V | -73.6 | -47 | 26.6 |
| 470.100 | V | V | -76.4 | -47 | 29.4 |
| 626.800 | - | - | - | -47 | - |
| 783.500 | - | - | - | -47 | - |
| 940.200 | - | - | - | -47 | - |
| 1096.900 | - | - | - | -47 | - |
| 1248.400 | - | - | - | -47 | - |
| 1404.450 | - | - | - | -47 | - |

| EMISSIONS (MHz) | DUT, PLACED V/H | ANT, POLARITY V/H | ATTENUATION (dB) | FCC LIMIT (dB) | MARGIN (dB) |
|-----------------------|-----------------------|-------------------------|---------------------|-------------------|----------------|
| REDUCED POWER: 1 WATT | | | | | |
| 313.400 | - | - | - | -43 | - |
| 470.100 | - | - | - | -43 | - |
| 626.800 | - | - | - | -43 | - |
| 783.500 | - | - | - | -43 | - |
| 940.200 | - | - | - | -43 | - |
| 1096.900 | - | - | - | -43 | - |
| 1248.400 | - | - | - | -43 | - |
| 1404.450 | - | - | - | -43 | - |

3) Frequency at which tuned: 157.43 MHz

| EMISSIONS (MHz) | DUT, PLACED V/H | ANT, POLARITY V/H | ATTENUATION (dB) | FCC LIMIT (dB) | MARGIN (dB) |
|---------------------|-----------------------|-------------------------|---------------------|-------------------|----------------|
| FULL POWER: 5 WATTS | | | | | |
| 314.850 | V | V | -72.3 | -47 | 25.3 |
| 472.275 | V | V | -75.8 | -47 | 28.8 |
| 629.700 | - | - | - | -47 | - |
| 787.125 | - | - | - | -47 | - |
| 944.550 | - | - | - | -47 | - |
| 1101.975 | - | - | - | -47 | - |
| 1248.400 | - | - | - | -47 | - |
| 1404.450 | - | - | - | -47 | - |

| EMISSIONS (MHz) | DUT, PLACED V/H | ANT, POLARITY V/H | ATTENUATION (dB) | FCC LIMIT (dB) | MARGIN (dB) |
|-----------------------|-----------------------|-------------------------|---------------------|-------------------|----------------|
| REDUCED POWER: 1 WATT | | | | | |
| 314.850 | - | - | - | -43 | >20 |
| 472.275 | - | - | - | -43 | >20 |
| 629.700 | - | - | - | -43 | >20 |
| 787.125 | - | - | - | -43 | >20 |
| 944.550 | - | - | - | -43 | >20 |
| 1101.975 | - | - | - | -43 | >20 |
| 1248.400 | - | - | - | -43 | >20 |
| 1404.450 | - | - | - | -43 | >20 |

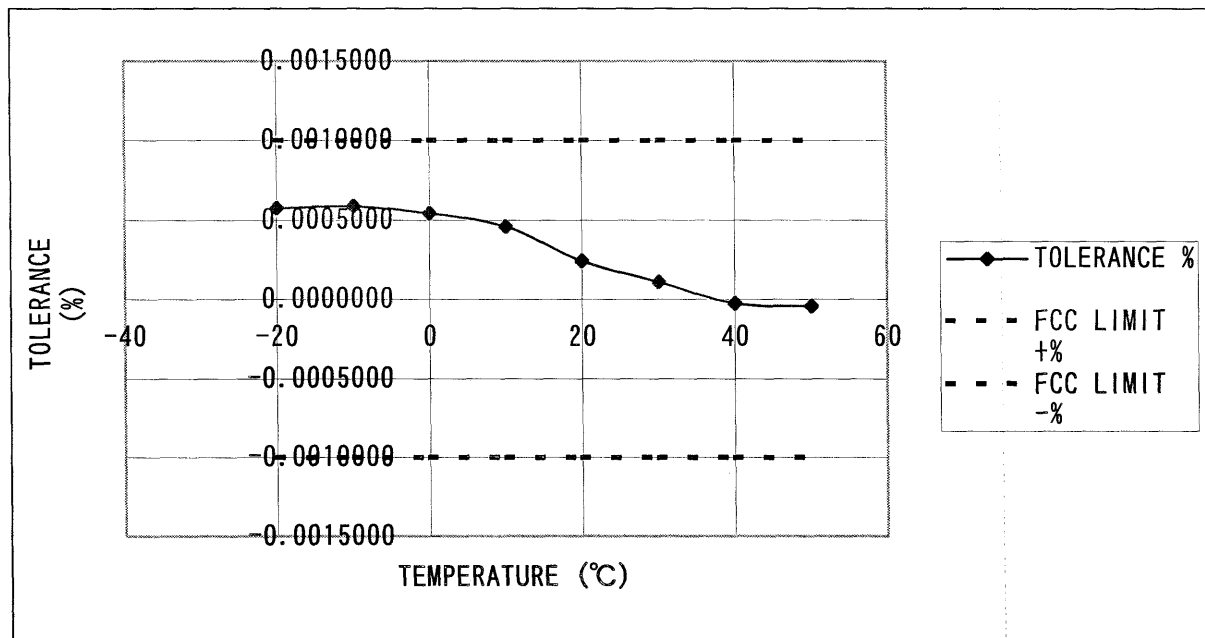
Note: All spurious emissions note reported were attenuated by at least 20 dB below the FCC limit.

9. FREQUENCY STABILITY (TEMPERATURE RANGE)

2.1055 & 80.209

CENTER FREQUENCY : 156.800 MHz

| TEMPERATURE | FREQ. | TOLERANCE | | FCC LIMIT | |
|-------------|-----------|-----------|------------|-----------|--------|
| °C | MHz | Hz | % | + | - |
| -20 | 156.8009 | 900 | 0.0005740 | 0.001 | -0.001 |
| -10 | 156.80092 | 920 | 0.0005867 | 0.001 | -0.001 |
| 0 | 156.80085 | 850 | 0.0005421 | 0.001 | -0.001 |
| 10 | 156.80072 | 720 | 0.0004592 | 0.001 | -0.001 |
| 20 | 156.80038 | 380 | 0.0002423 | 0.001 | -0.001 |
| 30 | 156.80017 | 170 | 0.0001084 | 0.001 | -0.001 |
| 40 | 156.79996 | -40 | -0.0000255 | 0.001 | -0.001 |
| 50 | 156.79993 | -70 | -0.0000446 | 0.001 | -0.001 |

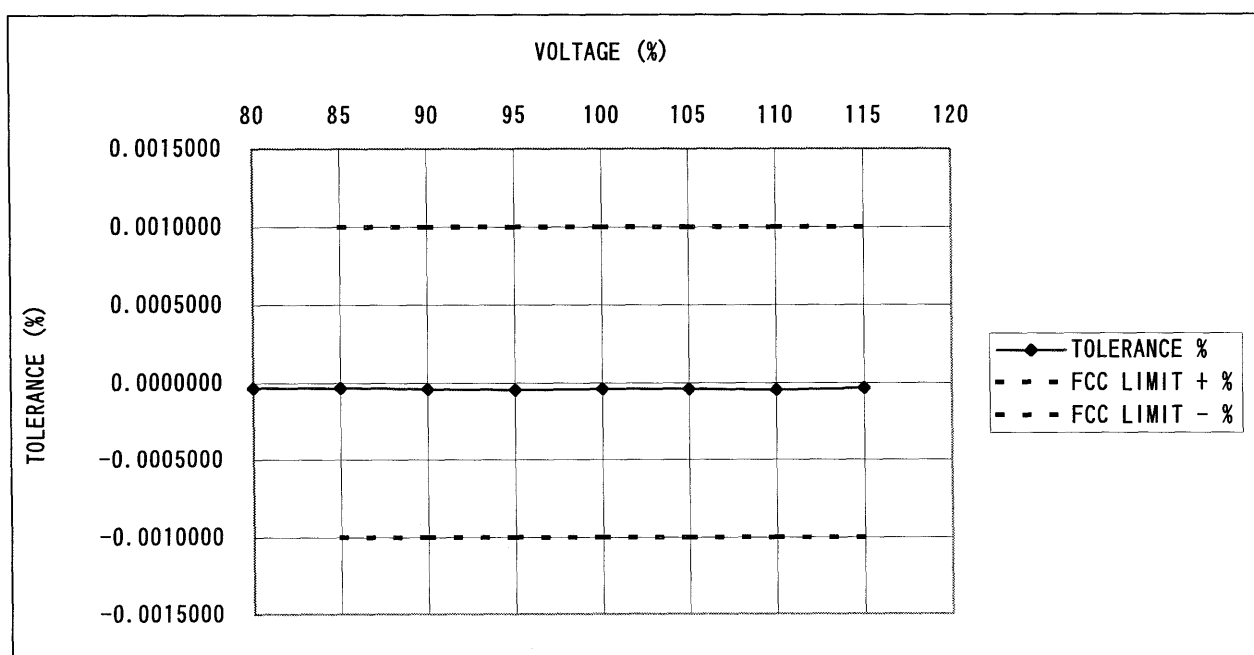


10. FREQUENCY STABILITY (VOLTAGE RANGE)

2.1055 & 80.209

CENTER FREQUENCY : 156.800 MHz

| VOLTAGE | | FREQ. | TOLERANCE | | FCC LIMIT | |
|---------|-----|-----------|-----------|------------|-----------|--------|
| (V) | (%) | MHz | Hz | % | + % | - % |
| 6.00 | 80 | 156.79995 | -50 | -0.0000319 | | |
| 6.38 | 85 | 156.79995 | -50 | -0.0000319 | 0.001 | -0.001 |
| 6.75 | 90 | 156.79994 | -60 | -0.0000383 | 0.001 | -0.001 |
| 7.13 | 95 | 156.79993 | -70 | -0.0000446 | 0.001 | -0.001 |
| 7.50 | 100 | 156.79994 | -60 | -0.0000383 | 0.001 | -0.001 |
| 7.88 | 105 | 156.79994 | -60 | -0.0000383 | 0.001 | -0.001 |
| 8.25 | 110 | 156.79993 | -70 | -0.0000446 | 0.001 | -0.001 |
| 8.63 | 115 | 156.79995 | -50 | -0.0000319 | 0.001 | -0.001 |



NOTE: BATTERY ENDPOINT --- 6.2V

RX-RADIATION

11. FIELD STRENGTH OF SPURIOUS & HARMONICS RADIATION

80.217(b)

| EMISSIONS (MHz) | ATTENUATION (dB) | FCC LIMIT (dB) | MARGIN (dB) |
|--|---------------------|-------------------|----------------|
| 1) Frequency at which tuned: 156.050 MHz No emissions exceed 20dB below the FCC limits. | | | |
| 2) Frequency at which tuned: 156.700 MHz No emissions exceed 20dB below the FCC limits. | | | |
| 3) Frequency at which tuned: 157.425 MHz No emissions exceed 20dB below the FCC limits. | | | |

Note: All spurious emissions note reported were attenuated by at least 20 dB below the FCC limit.

LIST OF MEASUREMENT EQUIPMENTS

| ENG-NO | TEST EQUIPMENT | TYPE | MFR | SERIAL NO. | Last Calibratation |
|--------|----------------------------|----------------|----------------|------------|--------------------|
| 1287 | AMPLIFIER | AFS30010040020 | MITEQ | 138315 | N/A |
| 2022 | MICROWAVE PREAMPLIFIER | 8349B | ADVANTEST | 3205A04450 | N/A |
| 1294 | ANTENNA (BILOG) | CBL6112A | CHASE | 2350 | N/A |
| 1602 | ANTENNA (DIPOLE) | 3120-B1 | EMCO | 0075 | 11-Jul-03 |
| 1603 | ANTENNA (DIPOLE) | 3120-B2 | EMCO | 0076 | 11-Jul-03 |
| 1604 | ANTENNA (DIPOLE) | 3120-B3 | EMCO | 0076 | 11-Jul-03 |
| 1560 | ANTENNA (HORN) (18GHz) | 3115 | EMCO | 2167 | N/A |
| N/A | ANTENNA (HORN) (24GHz) | 94287.24 | NIPPON KOSYUHA | 60.1 | N/A |
| 1388 | LISN | KNW407 | KYOURITSU | 8-833-21 | N/A |
| 0682 | POWER SUPPLY | AA300 | TAKASAGO | 31783013 | N/A |
| 0857 | SPECTRUM ANALYZER (13GHz) | E7400A | AGILENT | US40240145 | 18-Apr-03 |
| 0205 | SPECTRUM ANALYZER (8.4GHz) | R3265 | ADVANTEST | 25060158 | N/A |
| 1008 | SPECTRUM ANALYZER (40GHz) | 8564E | ADVANTEST | 3425A00182 | Apr-03 |