LTA
Laboratory for Test & Approval Co.,Ltd.

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http://www.ltalab.com

UBISTAR
주식회사 유비스타

Dates of Tests: November 07 ~ 22, 2005
Test Report S/N: LR500110511D
Test Site : LTA CO., LTD.

FCC ID **RFLUX380**

APPLICANT **UBISTAR CO.,LTD.**

# TEST REPORT

## FCC Part 22H / Part 15 Certification

| | | |
|---|---|---|
| **Classification** | **:** | **Licensed Non-Broadcast Station Transmitter (TNB)** |
| **Manufacturing Description** | **:** | **CDMA 2000 1x WLL TELEPHONE** |
| **Manufacturer** | **:** | **UBISTAR CO.,LTD.** |
| **Model name** | **:** | **UX380** |
| **Test Device Serial No.:** | **:** | **Identification** |
| **FCC Rule Part(s)** | **:** | **§22(H), §15, §2** |
| **TX Frequency Range** | **:** | **824.70 ~ 848.31 MHz** |
| **RX Frequency Range** | **:** | **869.70 ~ 893.31 MHz** |
| **Max. RF Output Power** | **:** | **0.476W ERP CDMA (26.78dBm)** |
| **Max. SAR Measurement** | **:** | **0.841W/kg CDMA Body SAR** |
| **Emission Designators:** | **:** | **1M25F9W** |
| **Data of issue** | **:** | **November 22, 2005** |

This test report is issued under the authority of:

Dong –Min JUNG, Technical Manager

The test was supervised by:

Kyung-Taek LEE, Test Engineer

**This test result only responds to the tested sample. It is not allowed to copy this report even partly without the allowance of the test laboratory. This report must not be used by the applicant to claim product endorsement by any agency.**

NVLAP LAB Code.: 200723-0

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# 1. General information's

## 1-1 Test Performed


Company name : LTA Co., Ltd.

Address : 243, Jubug-ri,Yangji-Myeon,Youngin-Si, Kyunggi-Do, Korea. 449-822

Web site : http://www.ltalab.com

E-mail : chahn@ltalab.com

Telephone : +82-31-323-6008

Facsimile +82-31-323-6010


Quality control in the testing laboratory is implemented as per ISO/IEC 17025 which is the "General requirements for the competents of calibration and testing laboratory".

## 1-2 Accredited agencies

LTA Co., Ltd. is approved to perform EMC testing by the following agencies:

| Agency | Country | Accreditation No. | Validity | Reference |
|---|---|---|---|---|
| NVLAP | U.S.A | 200723-0 | 2006-09-30 | ECT accredited Lab. |
| RRL | KOREA | KR0049 | 2007-07-13 | EMC accredited Lab. |
| FCC | U.S.A | 610755 | 2008-03-28 | FCC filing |
| VCCI | JAPAN | R2133, C2307 | 2008-06-22 | VCCI registration |
| IC | CANADA | IC5799 | 2008-04-23 | IC filing |

# 2. Information's about test item

## 2-1 Client

| | | |
|---|---|---|
| Company name | : | UBISTAR CO.,LTD. |
| Address | : | 7F, Seongdo Building, 587-23, Sinsa-Dong, Gangnam-Gu, |
| Country | : | Korea |
| Telephone | : | +82-2-549-8402 |
| Facsimile | : | +82-2-543-8265 |

## 2-2 Equipment Under Test (EUT)

| | | |
|---|---|---|
| Classification | : | Licensed Non-Broadcast Station Transmitter (TNB) |
| Trade name | : | CDMA 2000 1x WLL TELEPHONE |
| Model name | : | UX380 |
| Serial number | : | Identification |
| Date of receipt | : | November 08, 2005 |
| EUT condition | : | Pre-production, not damaged |
| Antenna type / Gain | : | Sleeve Dipole Antenna / 2dBi |
| TX Frequency Range | : | 824.70 ~ 848.31 MHz |
| RX Frequency Range | : | 869.70 ~ 893.31 MHz |
| Frequency Tolerance | : | ±0.00025% (2.5ppm) |
| Emission Designators | : | 1M25F9W |
| Voltage and Current applied through the final Amplifier | : | 12.0V / 0.997A / 11.964W |
| Power Source | : | AC Adaptor (Normal)<br>Input: 110/220VAC, 50~60Hz / Output:12VDC/1A<br>Internal Battery (Emergency)<br>Li-Ion 2200mA |

## 2-3 Tested frequency

| Frequency (CH) | TX (MHz) |
|---|---|
| Low (1013) | 824.7 |
| Mid (0384) | 836.52 |
| High (0777) | 848.31 |

# 3. Test Report

## 3.1 Summary of tests

| Parameter | Status |
|---|---|
| **Transmitter Requirements** | |
| Effective Radiated Power Output | C |
| Occupied Bandwidth | C |
| Field Strength of Spurious Radiation | C |
| Spurious Radiation at Antenna Terminal | C |
| Frequency Stability | C |
| **Receiver Requirements** | |
| Conducted Emission | C |
| Radiated Emission | C |

*Note 1*: C=Complies NC=Not Complies NT=Not Tested NA=Not Applicable

*Note 2*: The data in this test report are traceable to the national or international standards.

**A sample calculation:**

COR. F (correction factor)= Antenna factor + Cable loss- Amp.gain- Distance correction

Emission Level= meter reading + COR.F

**Emission Designator:**

EMISSION Designator = 1M25F9W

Calculation : 2M + 2DK

CDMA BW = 1.25MHz

F = Frequency Modulation

9 = Composite Digital Info

W = Combination (Audio/Data)

(Measured at the 99.75% power bandwidth)

## 3.2 DESCRIPTION OF TESTS

### 3.2.1 Effective Radiated Power Output

**Effective Radiated Power Output Measurements by Substitution Method according to ANSI/TIA/EIA-603-A-2001, Aug. 15, 2001:**

The EUT was placed on a wooden turn table 3-meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. For CDMA signals, an average detector is used, with RBW=VBW=3MHz, SPAN=10MHz. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same receive spectrum analyzer reading. The conducted power at the terminals of the dipole is measured. The ERP is recorded.

### 3.2.2 Radiation Spurious and Harmonic Emissions

**Effective Radiated Power Output Measurements by Substitution Method according to ANSI/TIA/EIA-603-A-2001, Aug. 15, 2001:**

Radiation and harmonic emissions are measured outdoors at our 3-meter test range. The equipment under test is placed on a wooden turntable 3-meters from the receive antenna.

The receive antenna height and turntable rotations were adjusted for the highest reading on the receive spectrum analyzer. The Spectrum was investigated from 30MHz to the 10$^{th}$ Harmonic of the fundamental. A peak detector is used. With RBW=VBW=1MHz. The value that we could measure was only reported. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator with the level of the signal generator being adjusted to obtain the same receive spectrum analyzer reading. This level is recorded. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration.

### 3.2.3 Occupied Bandwidth

The 99% power bandwidth was measured with a calibrated spectrum analyzer.

### 3.2.4 Spurious Emission at Antenna Terminal

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to 10 GHz.

### 3.2.5 Occupied Bandwidth Emission Limits

(a) On any frequency outside a licensee's frequency block, the power of any emission shall be attenuated below the transmitter power (P) by at least 43 + 10 log(P) Db.

(b) When measuring the emission limits, the nominal carrier frequency shall be adjusted as close to the licensee's frequency block edges, both upper and lower, as the design permits.

The measurement of emission power can be expressed in peak or average values, provided they are expressed in the same parameters as the transmitter power.

 

### 3.2.6 Frequency Stability/Temperature Variation

The frequency stability of the transmitter is measured by:

a) **Temperature** :The temperature is varied from -30°C to + 60°C using an environmental chamber.
b) **Primary Supply Voltage** :The primary supply voltage is varied from 85% to 115% of the voltage Normally at the input to the device or at the power supply terminals if cables are not normally supplied.

Specification –The minimum frequency stability shall be +/- 0.00025% at any time during normal operation.

Specification — The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within ±0.00025(±2.5ppm) of the center frequency.

**Time Period and Procedure:**

1. The carrier frequency of the transmitter and the individual oscillators is measured at room temperature (25°C to 27 °C to provide a reference)
2. The equipment is subjected to an overnight “soak” at -30°C without any power applied.
3. After the overnight ”soak” at -30°C(usually 14-16 hours),the equipment is turned on in a “standby” condition for one minute before applying power to the transmitter. Measurement of the carrier frequency to the transmitter and the individual oscillators is made within a three minute interval after applying power to the transmitter.
4. Frequency measurements is made at 10°C interval up to room temperature. At least a period of one and one half hour is provided to allow stabilization of the equipment at each temperature level.
5. Again the transmitter carrier frequency and the individual oscillators is measured at room temperature to begin measurement of the upper temperature levels.
6. Frequency were made at 10intervals starting at -30°C up to +60°C allowing at least two hours at each temperature for stabilization. In all measurements the frequency is measured within three minutes after applying power to the transmitter.
7. The artificial load is mounted external to the temperature chamber.

**NOTE : The EUT is tested down to the battery endpoint.**

 

### 3.2.7 Radiated Emission

Final test was performed according to ANSI C63.4-2003 at the open field test site. There are no deviations from the standard.
The EUT was placed in a 0.8m high table along with the peripherals. The turn table was separated from the antenna distance 3meters. Cables were placed in a position to produce maximum emissions as determined by experimentation, and operation mode was selected for maximum.
The frequencies and amplitudes of maximum emission were measured at varying azimuths, antenna heights and antenna polarities. Reported are maximized emission levels.
These tests were performed at 120kHz of 6dB bandwidth.

### 3.2.8 Conducted Emission

The power line conducted interference measurements were performed according to ANSI C63.4-2003 in a shielded enclosure with peripherals placed on a table, 0.8m high over a metal floor. It was located more than required distance away from the shielded enclosure wall. There are no deviations from the standard.
The EUT was plugged into the LISN and the frequency range of interest scanned.
Reported are maximized emission levels.
These tests were performed at 9kHz of 6dB bandwidth.

 

## 3.3 DESCRIPTION OF TESTS

### 3.3.1 Effective Radiated Power Output

**Supply Voltage: AC 120V**

**Modulation : CDMA**

| Freq. Tuned (MHz) | REF. LEVEL (dBm) | POL (H/V) | ERP (W) | ERP (dBm) | Supplied Power |
|---|---|---|---|---|---|
| 824.70 | -11.33 | V | 0.406 | 26.09 | Charger |
| **836.52** | **-11.01** | **V** | **0.476** | **26.78** | **Charger** |
| 848.31 | -12.37 | V | 0.327 | 25.15 | Charger |

*Note 1*: Battery of this phone is for emergency back up.
*Note 2*: Radiated measurements at 3 meters by Substitution Method.

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### 3.3.2 Field Strength of spurious Radiation

OPERATING FREQUENCY : 824.7 MHz

CHANNEL : 1013(Low)

MEASURED OUTPUT POWER : 26.78 dBm = 0.476 W

MODULATION : CDMA

DISTANCE : 3 meters

LIMIT : 43 + 10 $\log_{10}$ (W) = 39.78 dBc

| **Freq.** (MHz) | **LEVEL@ ANTENNA TERMINALS** (dBm) | **SUBSTITUTE ANTENNA GAIN** (dBd) | **CORRECT GENERATOR LEVEL** (dBm) | **POL** (H/V) | (dBc) |
|---|---|---|---|---|---|
| 1649.4 | -44.6 | 6.3 | -38.3 | V | 65.08 |
| 2474.1 | -52.3 | 9.1 | -43.2 | V | 69.98 |
| 3298.8 | -61.2 | 9 | -52.2 | V | 78.98 |
| - | - | - | - | - | - |

*Note1*: Radiated measurements at 3 meters by Substitution Method.

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### 3.3.2 Field Strength of spurious Radiation --- Continue

OPERATING FREQUENCY : 836.52 MHz

CHANNEL : 0384(Mid)

MEASURED OUTPUT POWER : 26.78 dBm = 0.476 W

MODULATION : CDMA

DISTANCE : 3 meters

LIMIT : 43 + 10 $\log_{10}$ (W) = 39.78 dBc

| **Freq.** (MHz) | **LEVEL@ ANTENNA TERMINALS** (dBm) | **SUBSTITUTE ANTENNA GAIN** (dBd) | **CORRECT GENERATOR LEVEL** (dBm) | **POL** (H/V) | (dBc) |
|---|---|---|---|---|---|
| 1673.04 | -45.4 | 6.3 | -39.1 | V | 65.88 |
| 2509.56 | -55.9 | 9.1 | -46.8 | V | 73.58 |
| 3346.08 | -59.4 | 9 | -50.4 | V | 77.18 |
| - | - | - | - | - | - |

*Note1*: Radiated measurements at 3 meters by Substitution Method.

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### 3.3.2 Field Strength of spurious Radiation --- Continue

OPERATING FREQUENCY : 848.31 MHz

CHANNEL : 0777(Mid)

MEASURED OUTPUT POWER : 26.78 dBm = 0.476 W

MODULATION : CDMA

DISTANCE : 3 meters

LIMIT : 43 + 10 $\log_{10}$ (W) = 39.78 dBc

| **Freq.** (MHz) | **LEVEL@ ANTENNA TERMINALS** (dBm) | **SUBSTITUTE ANTENNA GAIN** (dBd) | **CORRECT GENERATOR LEVEL** (dBm) | **POL** (H/V) | (dBc) |
|---|---|---|---|---|---|
| 1696.62 | -47.3 | 6.3 | -41 | V | 67.78 |
| 2544.93 | -50.8 | 9.1 | -41.7 | V | 68.48 |
| 3393.24 | -54.9 | 9 | -45.9 | V | 72.68 |
| - | - | - | - | - | - |

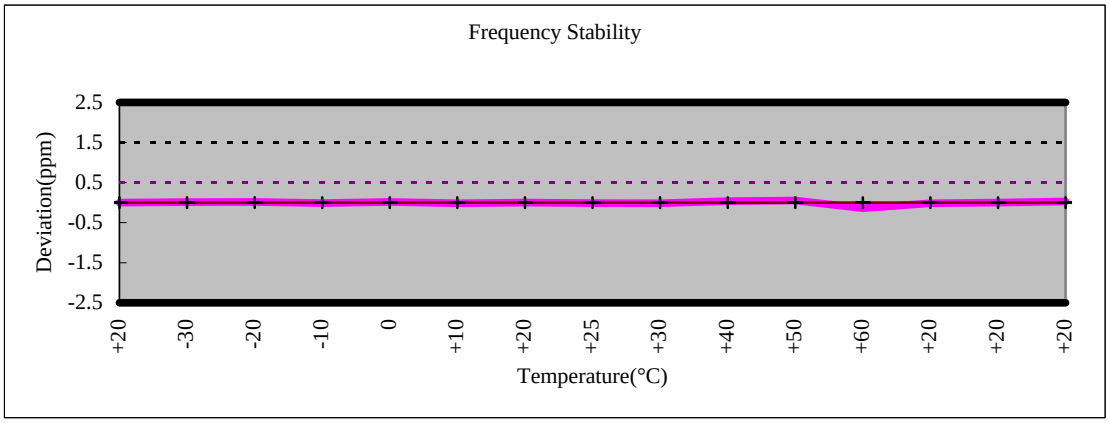
*Note1*: Radiated measurements at 3 meters by Substitution Method.

--- Blank ---

### 3.3.3 Frequency Stability

OPERATING FREQUENCY : 836,520,043 Hz
CHANNEL : 0384(Mid)
REFERENCE VOLTAGE : 120 VAC
DEVIATION LIMIT : ± 0.00025 % or 2.5 ppm

| **VOLTAGE** (%) | **POWER** (VAC) | TEMP (dB) | **FREQ** (Hz) | **Deviation** (%) |
|---|---|---|---|---|
| 100% | 120 | +20(Ref) | 836,520,043 | 0.000000 |
| 100% | | -30 | 836,520,054 | -0.000001 |
| 100% | | -20 | 836,520,056 | -0.000002 |
| 100% | | -10 | 836,520,054 | 0.000001 |
| 100% | | 0 | 836,520,056 | -0.000002 |
| 100% | | +10 | 836,520,031 | 0.000001 |
| 100% | | +20 | 836,520,043 | 0.000000 |
| 100% | | +25 | 836,520,033 | 0.000001 |
| 100% | | +30 | 836,520,031 | 0.000001 |
| 100% | | +40 | 836,520,073 | -0.000004 |
| 100% | | +50 | 836,520,087 | -0.000005 |
| 100% | | +60 | 836,519,927 | 0.000014 |
| 85% | 102 | +20 | 836,520,030 | 0.000002 |
| 115% | 138 | +20 | 836,520,043 | 0.000000 |
| BATT.ENDPOINT | - | - | - | - |



### 3.3.4 Conducted Emission

(SEE THE TEST PLOTS)

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### 3.3.5 Radiated Emission

**Distance: 3m**

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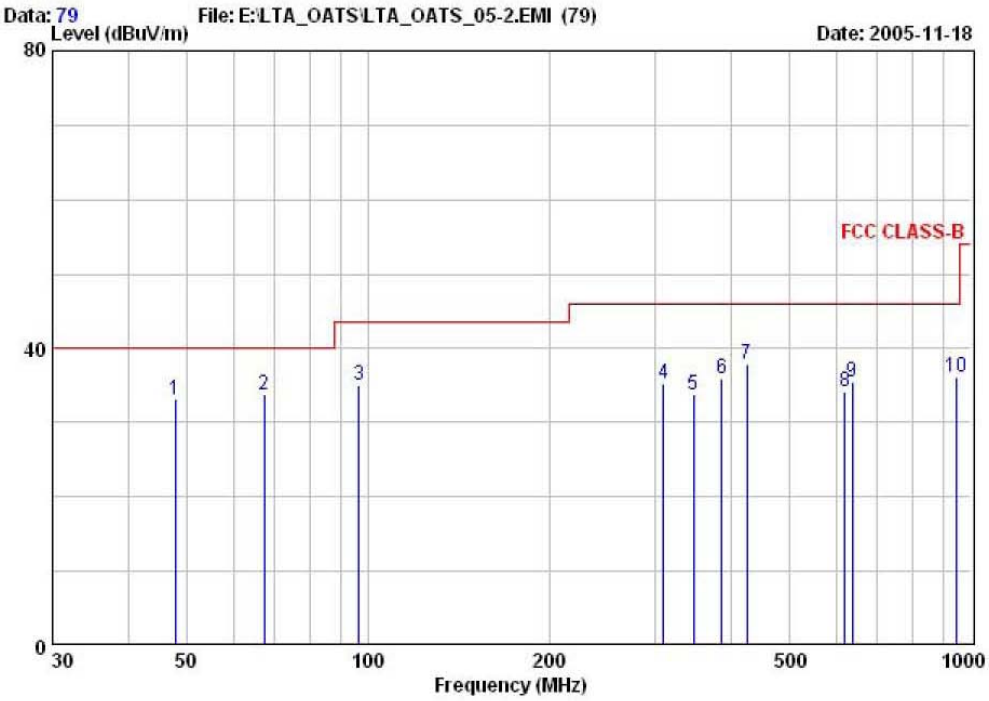
Gyeonggi-do 449-822 Korea
Tel :+82-31-3236008,9
Fax:+82-31-3236010

EUT/Model No.: UX380 Temp/Humi: 11 / 39
Test Mode : Rx mode Tested by: K. T. LEE




| | Freq MHz | Reading(QP) dBuV | C.F dB | Result(QP) dBuV/m | Limit dBuV/m | Margin dB | Height cm | Angle deg | Polarity |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 47.99 | 47.80 | -14.69 | 33.11 | 40.00 | 6.89 | 100 | 33 | VERTICAL |
| 2 | 67.44 | 53.20 | -19.49 | 33.71 | 40.00 | 6.29 | 100 | 42 | VERTICAL |
| 3 | 96.77 | 51.10 | -16.10 | 35.00 | 43.50 | 8.50 | 100 | 21 | VERTICAL |
| 4 | 308.91 | 46.90 | -11.49 | 35.41 | 46.00 | 10.59 | 188 | 221 | HORIZONTAL |
| 5 | 346.81 | 44.20 | -10.47 | 33.73 | 46.00 | 12.27 | 201 | 184 | HORIZONTAL |
| 6 | 386.63 | 45.40 | -9.40 | 36.00 | 46.00 | 10.00 | 152 | 199 | HORIZONTAL |
| 7 | 425.03 | 46.30 | -8.42 | 37.88 | 46.00 | 8.12 | 103 | 149 | HORIZONTAL |
| 8 | 618.54 | 38.60 | -4.37 | 34.23 | 46.00 | 11.77 | 100 | 153 | HORIZONTAL |
| 9 | 636.13 | 39.20 | -3.74 | 35.46 | 46.00 | 10.54 | 105 | 162 | HORIZONTAL |
| 10 | 945.44 | 34.80 | 1.45 | 36.25 | 46.00 | 9.75 | 100 | 173 | VERTICAL |

Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain

*Note 1*. There is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit for the frequency being investigated.

*Note 2* Measurements above 1GHz is performed using a minimum resolution bandwidth of 1MHz. The EUT was tested up to the 10GHz and no significant emission was found.

## 3.4 CONCLUSION

The data collected shows that the UBISTAR Fixed WLL Phone.

FCC ID: RFLUX380 complies with all the requirements of Parts 2, 15, 22 of the FCC Rules.

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## 3.5 TEST PLOTS

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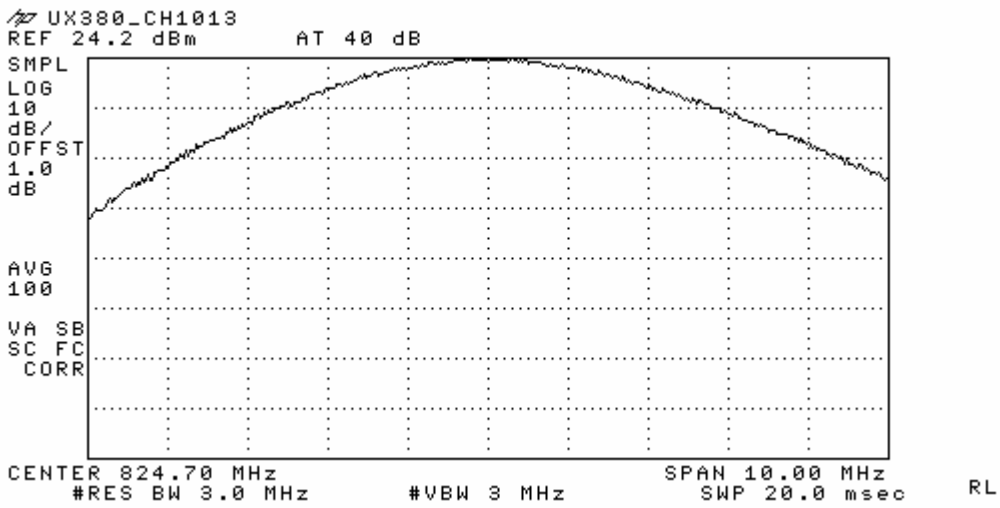
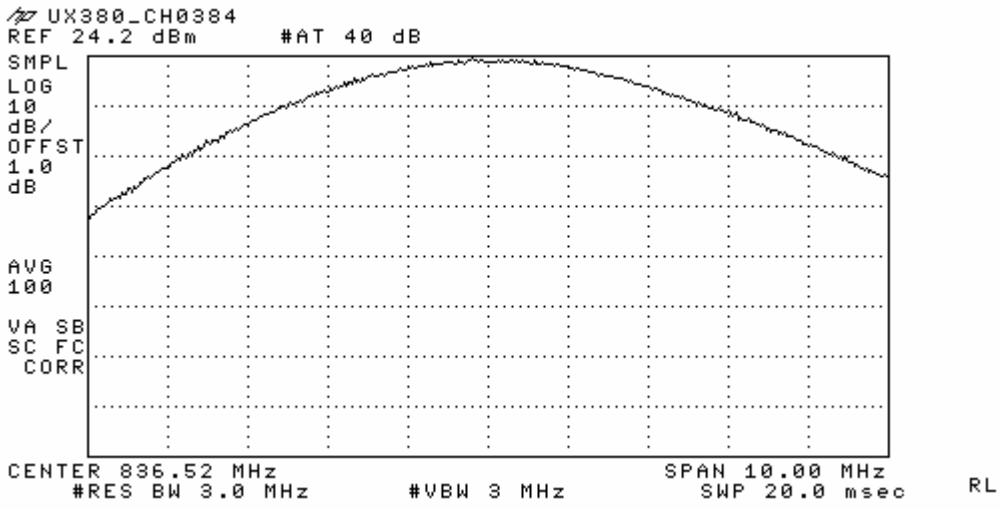
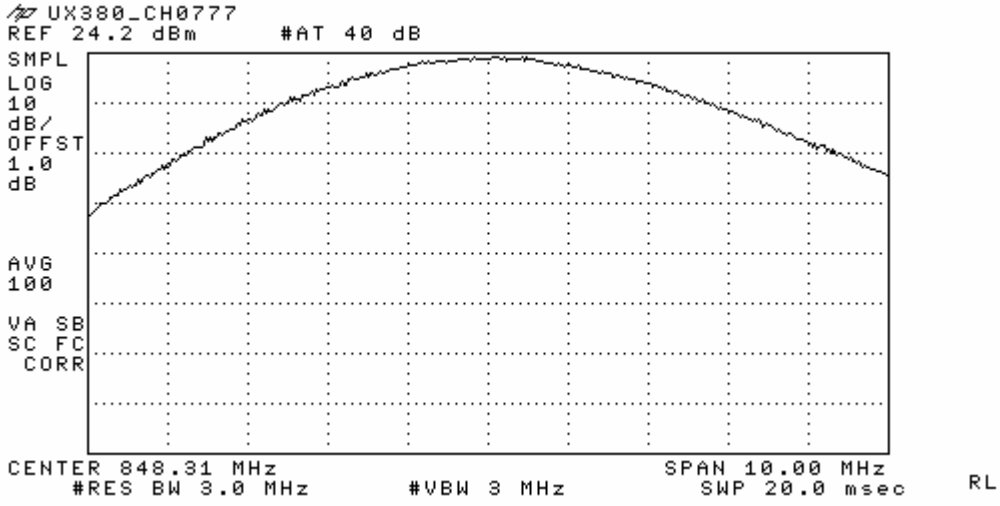
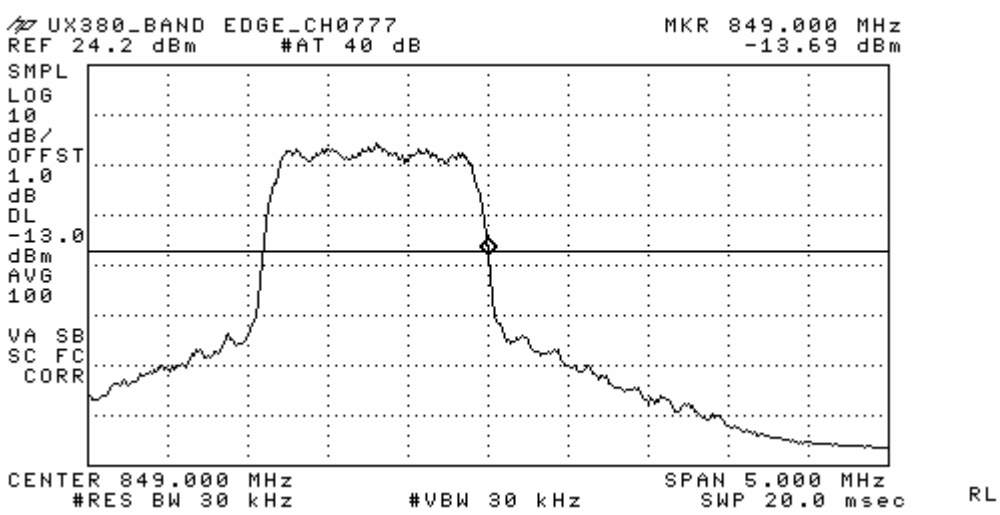
**Power Out**

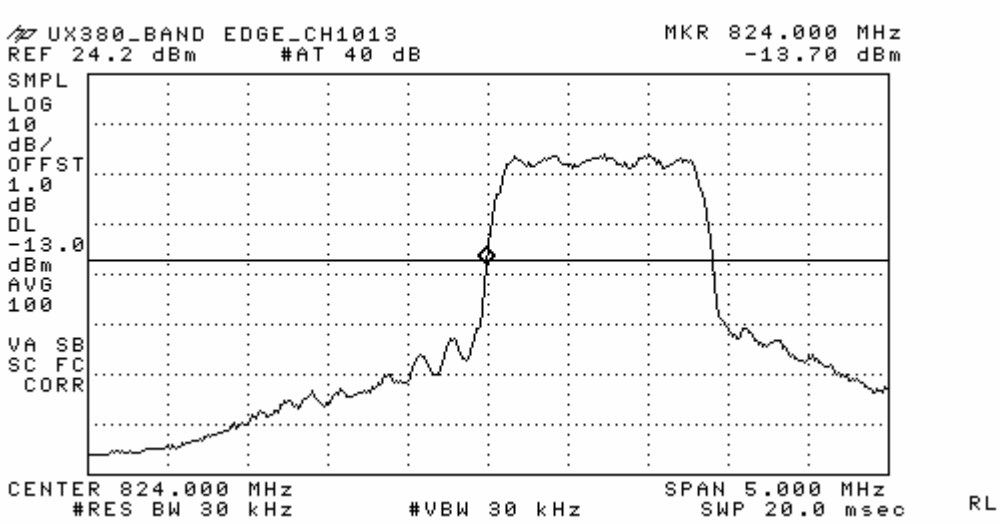


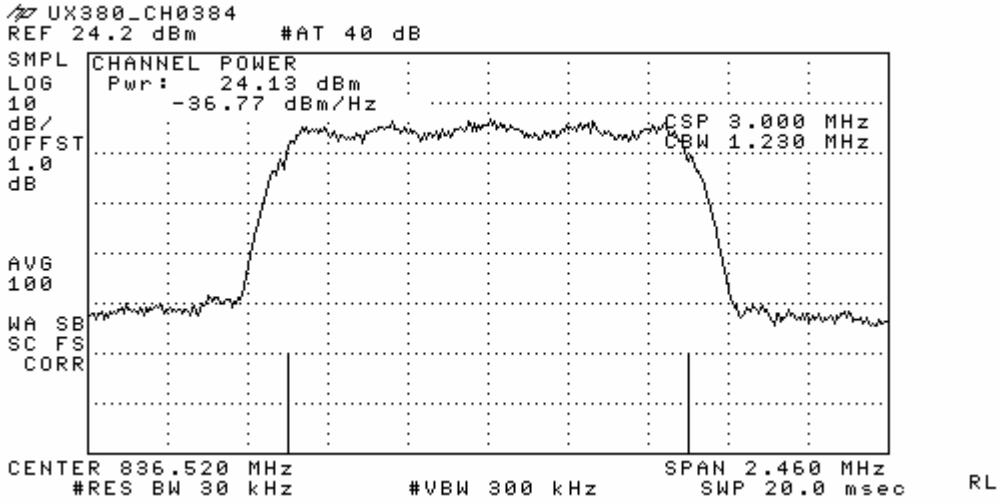



**Band Edge**

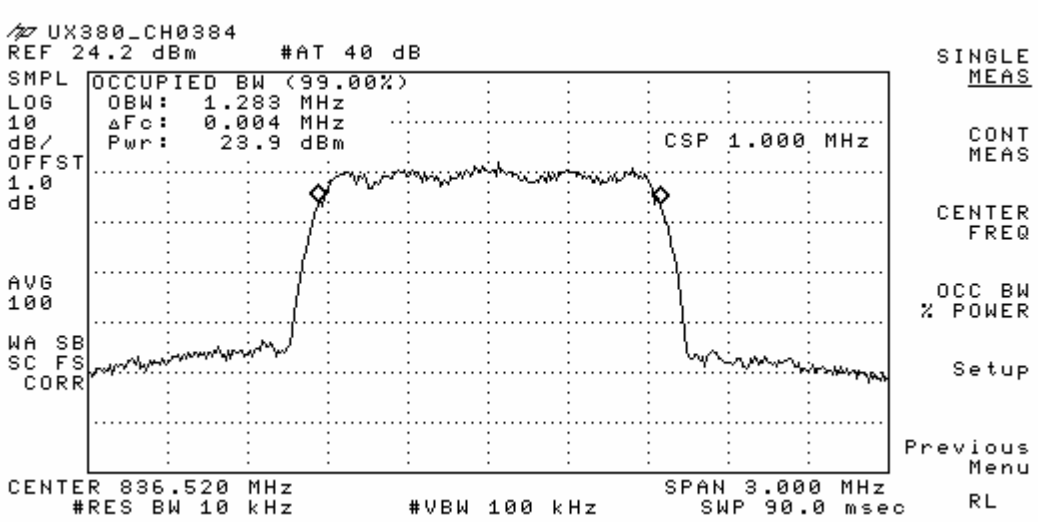


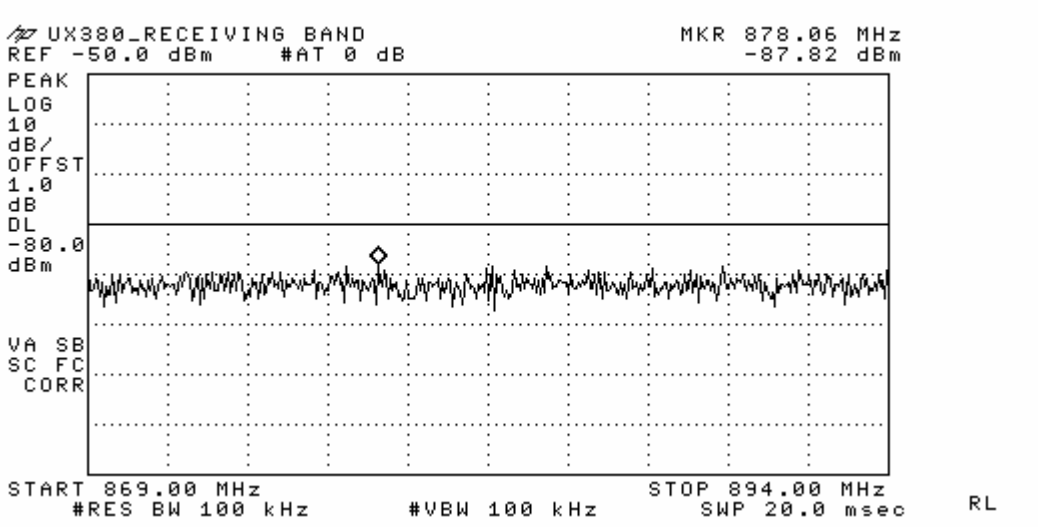

**Channel Power**



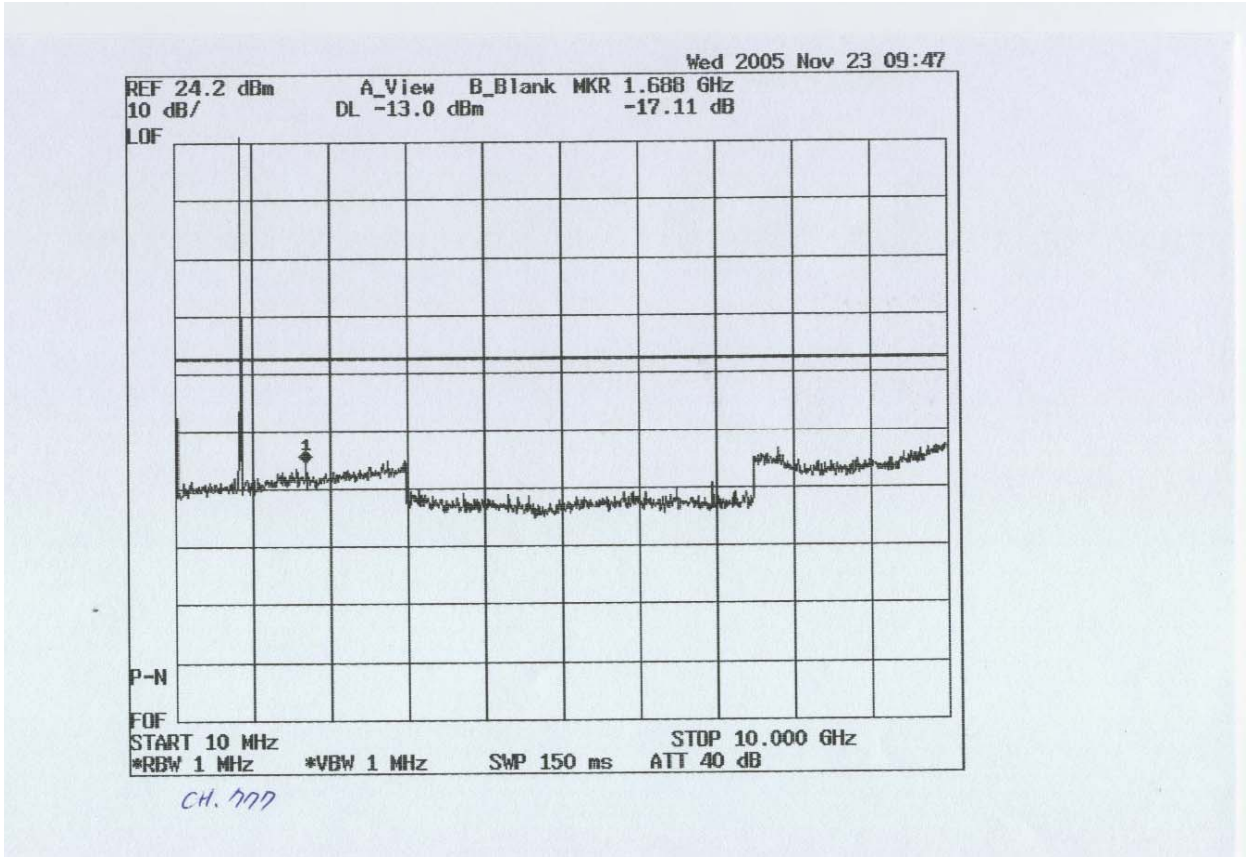
**Occupied Bandwidth**

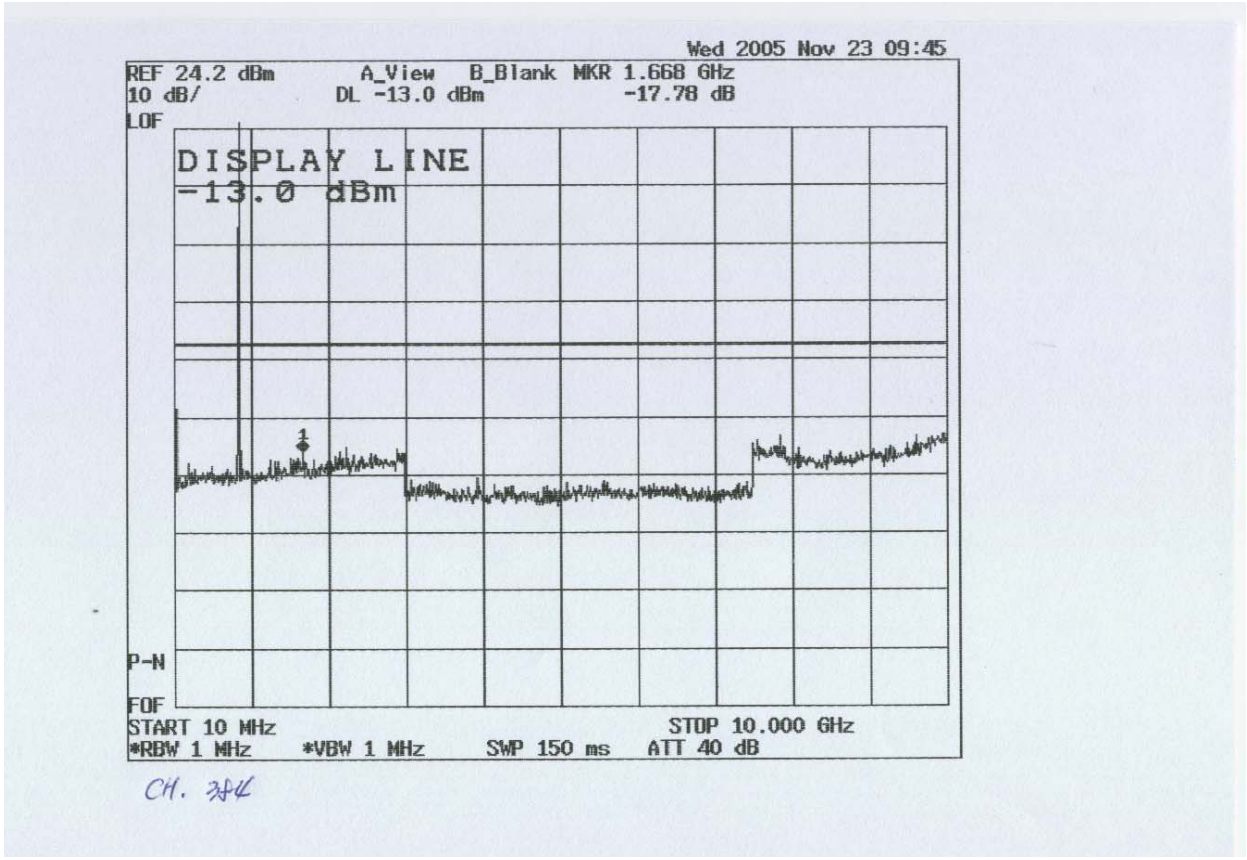


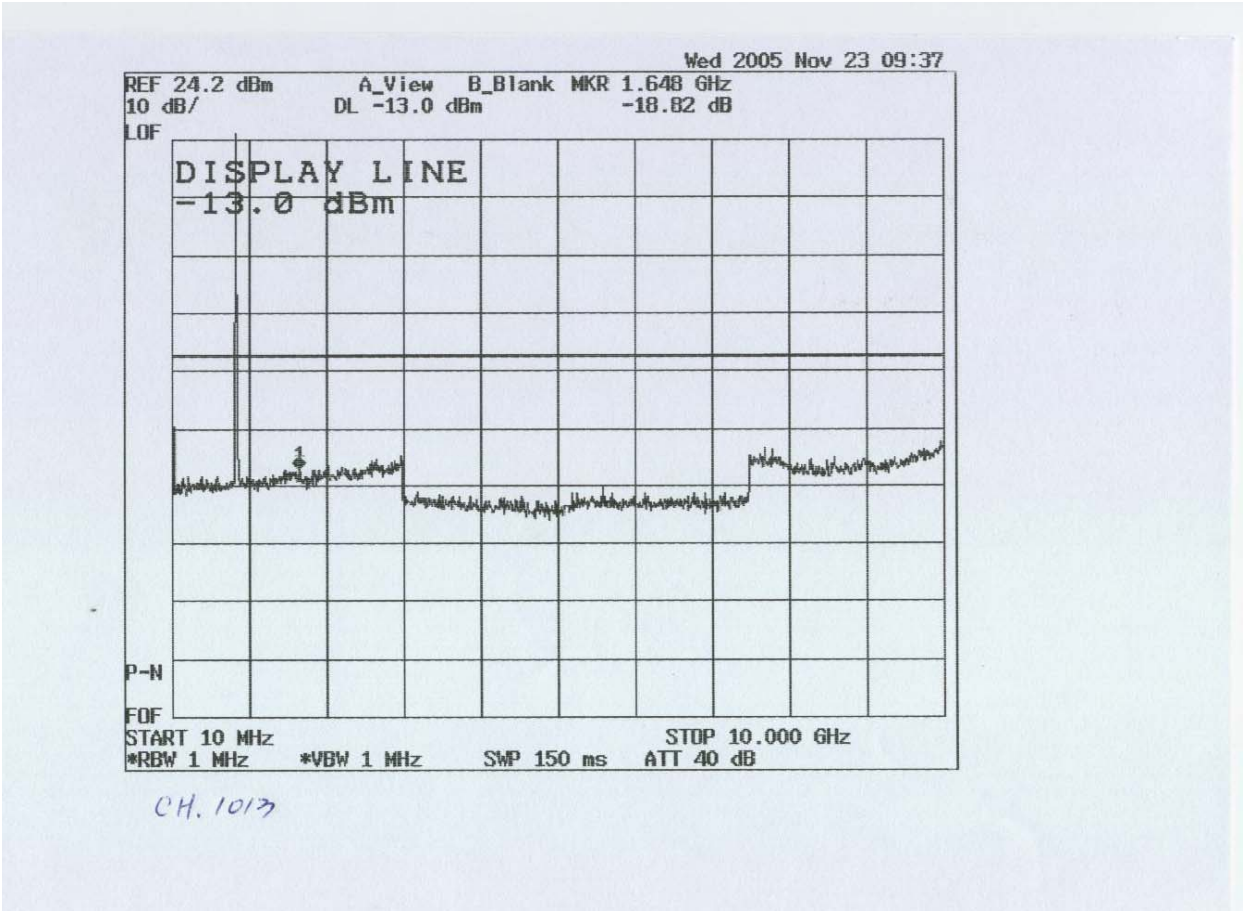

**Receiving Band**



**Spurious**





APPENDIX 1

# TEST EQUIPMENT USED FOR TESTS

| | Description | Model No. | Serial No. | Manufacturer | Cal. Date |
|---|---|---|---|---|---|
| 1 | Spectrum Analyzer | 8594E | 3649A03649 | HP | Dec-05 |
| 2 | Signal Generater | 8657A | 3430U02049 | HP | Dec-05 |
| 3 | Attenuator (3dB) | 8491A | 37822 | HP | Dec-05 |
| 4 | Attenuator (3dB) | 8491A | 28881 | HP | Dec-05 |
| 5 | EMI Test Receiver | ESVD | 843748/001 | R&S | Dec-05 |
| 6 | LISN | KNW-407 | 8-1430-1 | Kyoritsu | Dec-05 |
| 7 | Two-Line V-Network | ESH3-Z5 | 893045/017 | R&S | Jan-06 |
| 8 | RF Amplifier | 8447D | 2949A02670 | HP | Jan-06 |
| 9 | RF Amplifier | 8447D | 2439A09058 | HP | Jan-06 |
| 10 | RF Amplifier | 8449B | 3008A02126 | HP | Jun-07 |
| 11 | Test Receiver | ESH3 | 894718/017 | R&S | Jan-06 |
| 12 | TRILOG Antenna | VULB 9160 | 9160-3172 | SCHWARZBECK | Feb-06 |
| 13 | Log.-Per. Antenna | VULP 9118 | 9118 A 401 | SCHWARZBECK | Feb-06 |
| 14 | Biconical Antenna | BBA 9106 | VHA 9103-2315 | SCHWARZBECK | Feb-06 |
| 15 | Horn Antenna | 3115 | 00055005 | ETS LINDGREN | Jun-07 |
| 16 | Horn Antenna | BBHA 9120D | 0499 | Schwarzbeck | Jun-07 |
| 17 | Dipole Antenna | VHA9103 | 2116 | Schwarzbeck | Oct-06 |
| 18 | Dipole Antenna | VHA9103 | 2117 | Schwarzbeck | Oct-06 |
| 19 | Dipole Antenna | UHA9105 | 2261 | Schwarzbeck | Oct-06 |
| 20 | Dipole Antenna | UHA9105 | 2262 | Schwarzbeck | Oct-06 |
| 21 | Spectrum Analyzer | 8591E | 3649A05888 | HP | Feb-06 |
| 22 | Spectrum Analyzer | R3272 | 82420423 | ADVANTEST | Feb-06 |
| 23 | Hygro-Thermograph | THB-36 | 0041557-01 | ISUZU | Feb-06 |
| 24 | Splitter (SMA) | ZFSC-2-2500 | SF617800326 | Mini-Circuits | Jun-06 |
| 25 | RF Switch | MP59B | 6200414971 | ANRITSU | Jun-06 |
| 26 | RF Switch | MP59B | 6200438565 | ANRITSU | Jun-06 |
| 27 | Power Divider | 11636A | 6243 | HP | Apr-06 |
| 28 | DC Power Supply | 6622A | 3448A03079 | HP | Apr-06 |
| 29 | Attenuator (30dB) | 11636A | 6243 | HP | Apr-06 |
| 30 | Attenuator (10dB) | 8491A | 63196 | HP | Apr-06 |
| 31 | Power Meter | EPM-441A | GB32481702 | HP | Apr-06 |
| 32 | Power Sensor | 8481A | 2702A64048 | HP | Apr-06 |
| 33 | Audio Analyzer | 8903B | 3729A18901 | HP | May-06 |
| 34 | Modulation Analyzer | 8901B | 3749A05878 | HP | May-06 |
| 35 | TEMP & HUMIDITY Chamber | YJ-500 | L05022 | JinYoung Tech | - |

APPENDIX 2

# Label and User's Manual Information

# Certification Labeling Requirements

**§ 15.19 Labeling requirements.**

(a) In addition to the requirements in part 2 of this chapter, a device subject to **certification, or verification** shall be labeled as follows:

(1) Receivers associated with the operation of a licensed radio service, e.g., FM broadcast under part 73 of this chapter, land mobile operation under part 90, etc., shall bear the following statement in a conspicuous location on the device:

*This device complies with part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference.*

(2) A stand-alone cable input selector switch, shall bear the following statement in a conspicuous location on the device:

*This device is verified to comply with part 15 of the FCC Rules for use with cable television service.*

(3) All other devices shall bear the following statement in a conspicuous location on the device:

*This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.*

(4) Where a device is constructed in two or more sections connected by wires and marketed together, the statement specified under paragraph (a) of this section is required to be affixed only to the main control unit.

(5) When the device is so small or for such use that it is not practicable to place the statement specified under paragraph (a) of this section on it, the information required by this paragraph shall be placed in a prominent location in the instruction manual or pamphlet supplied to the user or, alternatively, shall be placed on the container in which the device is marketed. However, the FCC identifier or the unique identifier, as appropriate, must be displayed on the device.

# User's Manual Information

**§ 15.21 Information to user.**

*The users manual or instruction manual for an intentional or unintentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.*

The following is extracted from Title 47 of the Code of Federal Regulations, Part 15, Subpart B - Unintentional Radiators:

**§ 15.105 Information to the user.**

(b) For a Class B digital device or peripheral, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual:

***Note**: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:*

*--Reorient or relocate the receiving antenna.*
*--Increase the separation between the equipment and receiver.*
*--Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.*
*--Consult the dealer or an experienced radio/TV technician for help.*