MEASUREMENT/TECHNICAL REPORT

Digital Wireless Corporation

COMPANY NAME:

| MODEL: | WIT2410 |
|--|---|
| FCC ID: | HSW-2410M |
| DATE: | July 12, 1999 |
| This report concerns (chee | eck one): Original grant <u>X</u> Class II change |
| Deferred grant requested If yes, defer until: date | d per 47 CFR 0.457(d)(1)(ii)? yes No_X_ |
| | y the Commission by <u>N.A.</u> date nnouncement of the product so that the grant can be issued |
| 3505 Franci Alpharetta, (Phone Num | |

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SECTION 1 GENERAL INFORMATION

GENERAL INFORMATION

1.1 Product Description

The Equipment Under Test (EUT) is a Digital Wireless Corporation, Model WIT2410 modular 2.4 GHz spread spectrum transceiver. The EUT will be used with one of seven different antennas.

1.2 Related Submittal(s)/Grant(s)

The EUT will be used to send/receive data. The transceiver presented in this report will be used with other like transceivers:

The EUT is subject to the following authorizations:

- a) Certification as a transceiver (modular approval)
- b) Verification as a digital device

The information contained in this report is presented for the certification & verification authorization(s) for the EUT. The manufacturer desires to seek a modular approval on this device.

SECTION 2 TESTS AND MEASUREMENTS

TEST AND MEASUREMENTS

2.1 Configuration of Tested System

The sample was tested per ANSI C63.4, Methods of Measurement from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz (1992). Conducted and radiated emissions data were taken with the test receiver or spectrum analyzer's resolution bandwidth adjusted to 9 kHz and 120 kHz, respectively. All measurements are peak unless stated otherwise. The video filter associated with the spectrum analyzer was off throughout the evaluation process. Interconnecting cables were manipulated as necessary to maximize emissions. Interconnecting cables were manipulated as necessary to maximize emissions. A block diagram of the tested system is shown in Figure 1. Test configuration photographs for spurious and fundamental emissions are shown in Figure 2.

The sample used for testing was received by U.S. Technologies on April 23 in good condition.

2.2 Test Facility

Testing was performed at US Tech's measurement facility at 3505 Francis Circle, Alpharetta, GA. This site has been fully described and submitted to the FCC, and accepted in their letter marked 31040/SIT. Additionally this site has also been fully described and submitted to Industry Canada (IC), and has been approved under file number IC2982.

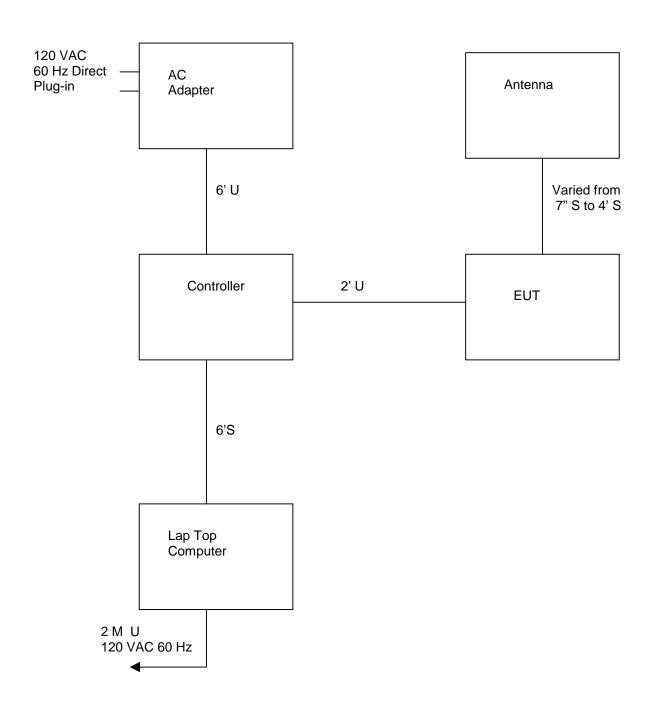
2.3 Test Equipment

Table 2 describes test equipment used to evaluate this product.

2.4 Modifications

No modifications were made by US Tech, to bring the EUT into compliance with FCC Part 15, Class B Limits for the transmitter portion of the EUT or the Class B Digital Device Requirements.

FIGURE 1 TEST CONFIGURATION



Test Date: April 23, 1999

UST Project: 99-317

Customer: Digital Wireless Corporation

Model: WIT2410

FIGURE 2a – 2l

Photographs have been provided in separate files

TABLE 1

Test Date: April 23, 1999-April 29, 1999

UST Project: 99-317

Customer: Digital Wireless

Model: WIT 2410M

EUT and Peripherals

| PERIPHERAL MANU. | MODEL NUMBER | SERIAL NUMBER | FCC ID: | CABLES P/D |
|---|-----------------------------------|------------------|------------|----------------------------------|
| (EUT) Digital Wireless Corporation | WIT 2410M | 00239 | HSW-2410M | 2'U |
| Antenna | Various, see antenna descriptions | | None | Varied from 7" S to 4' S |
| AC Adapter CUI Stack | DV-1280 | 0695 | None | 120 VAC 60 Hz Direct Plug-in |
| Controller Digital Wireless Corporation | DWC | None | None | 6' U |
| Lap Top Computer LTE Elite | 4/75CX | 6520HFJ6F406 | CNT75MB1CB | 2m U 120 VAC Hz Power Cord |

TABLE 2
TEST INSTRUMENTS

| TYPE | MANUFACTURER | MODEL | SN. |
|-------------------------|-----------------|----------|-------------------|
| SPECTRUM ANALYZER | HEWLETT-PACKARD | 8593E | 3205A00124 |
| SPECTRUM ANALYZER | HEWLETT-PACKARD | 8558B | 2332A09900 |
| S A DISPLAY | HEWLETT-PACKARD | 853A | 2404A02387 |
| COMB GENERATOR | HEWLETT-PACKARD | 8406A | 1632A01519 |
| RF PREAMP | HEWLETT-PACKARD | 8447D | 1937A03355 |
| RF PREAMP | HEWLETT-PACKARD | 8449B | 3008A00480 |
| HORN ANTENNA | EMCO | 3115 | 3723 |
| HORN ANTENNA | EMCO | 3116 | 9505-2255 |
| BICONICAL ANTENNA | EMCO | 3110 | 9307-1431 |
| LOG PERIODIC ANTENNA | EMCO | 3146 | 9110-3600 |
| BILOG | CHASE | CBL6112A | 2238 |
| LISN | SOLAR ELE. | 8012 | 865577 |
| LISN | SOLAR ELE. | 8028 | 910494 |
| LISN | SOLAR ELE. | 8028 | 910495 |
| THERMOMETER | FLUKE | 52 | 5215250 |
| MULTIMETER | FLUKE | 85 | 53710469 |
| FUNCTION GENERATOR | TEKTRONIX | CFG250 | CFG250TW1505 9 |
| PLOTTER | HEWLETT-PACKARD | 7475A | 2325A65394 |

2.6 Antenna Description (Paragraph 15.203)

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

Digital Wireless Corporation will sell the WIT2410 with one of the following antennas.

| MANUFACTURER | TYPE OF ANTENNA | MODEL | GAIN dB | Type of Connector |
|---------------------------------|------------------|--------------------|-------------|---|
| ACE | Dipole | ACE-2400NF | 2 dBi | Reverse SMA to MMCX via adapter cable |
| Cushcraft | Yagi | PC2415-RTNF | 15 dBi | Reverse TNC to MMCX via adapter cable |
| Mobile Mark | Omni-Directional | OD6-2400-RTNC | 6 dBi | Reverse TNC to MMCX via adapter cable |
| Mobile Mark | Omni-Directional | OD12-2400PTA-RTNC | 12 dBi | Reverse TNC to MMCX via adapter cable |
| Mobile Mark | Corner Reflector | SCR14-2400PTA-RTNC | 14 dBi | Reverse TNC to MMCX via adapter cable |
| Mobile Mark | Patch | P7-2400RTNC | 7 dBi | Reverse SMA to MMCX via adapter cable |
| Digital Wireless Corporation | Patch | PA2410 | Appx. 3 dBi | Non-standard MMCX |

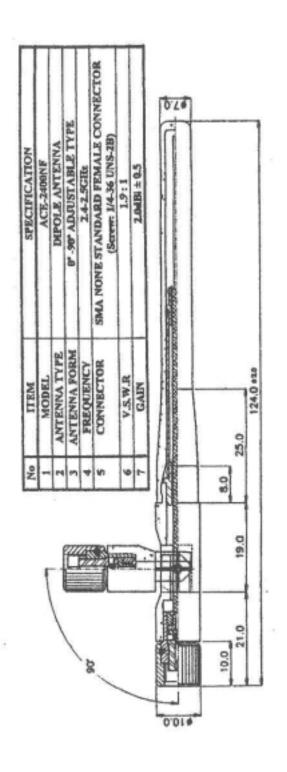
^{*}For more specific antenna specifications, please see the following pages.

To ensure compliance with 15.203, Digital Wireless Corporation proposes to attach reverse-sex TNC connectors to the 15dBi Yagi, the 14dBi corner reflector, and the 9dBi and 12dBi omni-directional. The 2dBi dipole will be fitted with a reverse sex SMA as the TNC is too large to fit onto the antenna body.

Digital Wireless Corporation has arranged for the manufacturers of the 14 dBi corner reflector, the 15 dBi Yagi, the 6 dBi and 12 dBi omni-directional antennas to provide reverse-sex TNC connectors for these antennas. We have also arranged with the manufacturer of the 2dBi dipole to place a reverse sex SMA connector on that antenna. OEM customers wanting to use one of these antennas in their product will first need to obtain a special part number from Digital Wireless to give to the antenna manufacturer. The manufacturer, upon receipt of this number, will know to attach the reverse-sex TNC connector (or SMA in the case of the dipole) to the end of the antenna cable before shipping.

The customer then purchases an adapter cable from Digital Wireless that will connect the MMCX port on our module to the reverse-sex connector on the antenna. No other type of commercially available antenna will attach to this reverse-sex TNC (or SMA for the case of the dipole). Given the nonstandard nature of the interconnect between module and antenna and the difficulty involved in circumventing that connection, Digital Wireless Corporation believes that this procedure meets the requirements called out in 15.203.

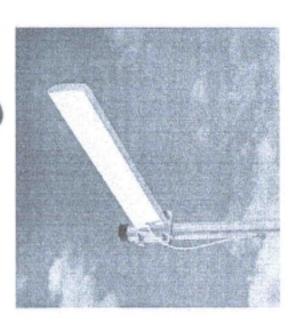
The sixth antenna included in our application, the DWC patch, already has a nonstandard MMCX mating connector attached to it. It cannot be connected to anything else but a MMCX connector. No adapter cable is needed when using this antenna – the antenna snaps directly to the module. Digital Wireless has no official data sheet for this antenna. Lab measurements show an approximate antenna gain of 3dBi for the device.





Specifications

| | 1.5.1 Linear | h 30 | h 34 | dB) 18 | watts) 50 | 125 | 26.0 x 4.0 x 1. | 1.25 | 1.5-2.2 OD |
|-------------------------------------|-----------------|--------------------------------------|--------------------------------------|-----------------------|-----------------------|-------------------|--------------------|-----------------|------------|
| Bandwidth (MHz) Impedance (Ohms) | VSWR | E Plane Beamwidth (@ -3 dB point) | H Plane Beamwidth (@ -3 dB point) | Front/Back Ratio (dB) | Maximum Power (watts) | Wind Rating (MPH) | L x W x D (inches) | Weight (pounds) | Mounting |

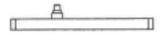


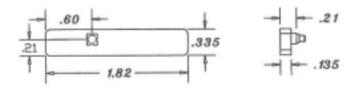
Directional

S

- Sealed, UV Stable Radome
- ▶ Easy Installation
- Also at 1.7 and 1.8GHz

| | | REV | 10121 | 18 | |
|-----|--------|-------------|-------|------------|------|
| REV | CC NO. | DESCRIPTION | DRN | ENGR. CHK. | DATE |
| | | | | | |



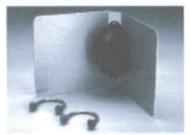


 CONNECTOR IS HUBER-SUHNER TYPE 81 MMCX-50-0-1 (PLUG) OR EQUIVALENT.

| AHGULAR = ±.F ,XX | -XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | DIG ONE M | ECA WAY, | WIREI NORCROSS 540 FAX | , GA 300 | |
|-------------------|--|--------------|-----------|------------------------------|----------|------|
| THIRD ANGLE | PROJECTION | 2 | | , ASSEM PATCH [| | A |
| DRAWN: PM | 14MAY99 | DESCRIPTION | THIS PAGE | | | |
| ENGR. PM | 14MAY99 | size A | SCALE 1:1 | DOC NUMBER | 300262 | REV. |
| ENER. MGR. MT | 14MAY99 | PART NUMBE | DR . | | SHEET 1 | OF 1 |

Product Specifications

MOBILE MARK®



14 dBi Corner Reflector



9 dBi Mini Corner Reflector

Corner Reflector Antenna (Pat. Pend.)

For PCS, ISM & High Frequency Applications

- 14 dBi models for 1.7 2.6 GHz
- 9 dBi Mini model for 2.4 GHz applications
- Small aperture; minimizes windloading
- Split balun feed provides superior bandwidth & gain performance

Mobile Mark's high frequency Comer Reflector antennas are useful for many applications including surveillance work, PCS, LAN/WAN and other high frequency applications. Its unique design features allow the antenna to overcome many of the problems normally associated with higher frequency systems.

These corner reflectors utilize a half-wavelength element configuration. A unique balun fed design provides high

| Model Numbers | | |
|-----------------|--------|------------|
| Frequency Range | Gain | Model |
| 1700 -1900 MHz | 14 dBi | SCR14-1800 |
| 1800 - 2000 MHz | 14 dBi | SCR14-1900 |
| 2300 - 2600 MHz | 14 dBi | SCR14-2400 |
| 2300 - 2600 MHz | 9 dBi | SCR9-2400 |

Please confirm desired operating frequency at time of order. Other special configurations are available upon request. Operation subject to bandwidth restrictions. efficiency radiation without skewing of the radiation pattern. The resultant performance provides excellent bandwidth, gain and match over the frequency range.

These antennas are very small in design and appearance. The connector mechanism exits at the rear of the antenna, allowing easy installation. The mounting bracket (supplied) allows both horizontal and vertical mounting of the antenna. Surface mount can also be accommodated. Each reflector panel on the 14 dBi models measure 7" x 7", providing very low aperture and windloading. The 9 dBi Mini-Corner Reflector has 3" x 3" panels, with total aperture of only 3" x 5.5".

The reflectors are made of aluminum, and irridited for weather protection. The radiating elements are weather protected within an ABS radome. This maintains integrity of the antenna without sacrificing looks or windloading.

| Frequency: | See above | SCR14 Panel Size: | 7" x 7" each |
|-----------------------|------------------------------|---------------------|---------------------------|
| Gain: | See above | Max Wind Velocity: | 100+ mph |
| Bandwidth @2:1 SWR: | 200 MHz or better | Material: | Irridited aluminum, ABS |
| Impedance: | 50 Ohm nominal | | plastic radome material |
| Maximum Power: | 100 Watts | Weight: | |
| SCR9 Beamwidth: | 65° vertical, 75° horizontal | SCR9 | <1 lbs |
| SCR14 Beamwidth: | 44° vertical, 35° horizontal | SCR14 | <2 lbs |
| Front-to-Back ratio: | 22 dB or better | Mounting: | Pole, surface, & comer |
| Lightning Protection: | DC grounded, external | | mount, hardware included. |
| | protection recommended | Mounting Dimension: | Mounts up to 2* outside |
| SCR9 Aperture: | 3" x 5.5" front face | | diameter mast |
| SCR9 Panel Size: | 3" x 3" each | Connector: | N female, attached at |
| SCR14 Aperture: | 7" x 10.5" front face | | rear of antenna |

Product Specifications

MOBILE MARK® COMMUNICATIONS ANTENNAS





OD9 Series with Reflector Option Kit

OD12 Series Antenna

OD Series Omni Antenna

For WLAN, Video, PCS, and Data Systems

- 6 dBi, 9 dBi & 12 dBi antennas provide uniform omni coverage
- Unique design allows economical build out
- Mounting kit includes all hardware needed
- Reflector option provides directional beamshaping & increased performance

The OD Series Antennas are optimized for use in a wide variety of wireless systems. They are usable in point to point, multipoint and broadcast configurations. Typical uses include WLAN access points or bridge, PCS Microcell, and video surveillance transmitters.

These antennas consist of a collinear array with elements stacked vertically. Unique phasing cancels out-of-phase current distribution, improving system performance. This design maintains an omni pattern in the horizontal plane. The OD Series are free space antennas and can be mounted anywhere; no ground plane is required.

An option for the OD series is a reflector kit that beam shapes the omni pattern into a directional cardioid shape. This can result in improved performance for gain, and isolation for reduced interference.

The low profile black radome (1" diameter) makes the OD Series durable and rugged. They can withstand the harshest environments of snow, wind, rain and ice. The feed assembly is made of precision machined aluminum components and is irridited for weather protection. The OD Series comes with all the hardware needed to install

it to a mast. Customized hardware is also available for unique mounting needs. For ISM, special connectors and models with cable are available including reverse polarized; please consult factory.

| Model Numi | bers | | |
|------------|------------|--------|-------------------|
| Model | Freq.(MHz) | Gain | Applications |
| OD6-1800 | 1700-1900 | 6 dBi | PCN, Surveillance |
| OD9-1800 | 1700-1900 | 9 dBi | PCN, Surveillance |
| OD6-1900 | 1850-1990 | 6 dBi | PCS, CDMA/TDMA |
| OD9-1900 | 1850-1990 | 9 dBi | PCS, CDMA/TDMA |
| OD12-1900 | 1850-1990 | 12 dBi | PCS, CDMA/TDMA |
| OD6-2400 | 2400-2485 | 6 dBi | WLAN, ISM, Video |
| OD9-2400 | 2400-2485 | 9 dBi | WLAN, ISM, Video |
| OD12-2400 | 2400-2485 | 12 dBi | WI AN ISM Video |

Frequencies subject to bandwidth constraints; confirm desired frequencies at time of order. Special frequencies are also available, please consult factory for information.

| Reflector Options | Model |
|------------------------------|-----------|
| Add-on kit for 6 dBi models | ODR6-Kit |
| Add-on kit for 9 dBi models | ODR9-Kit |
| Add-on kit for 12 dBi models | ODR12-Kit |

| Frequency & Gain: | See above | Lightning Protection: | External suggested |
|-----------------------------------|-----------------------------|-----------------------------|--------------------------|
| Bandwidth @2:1 SWR: | 140 MHz, 85 MHz for OD12 | Material: Length/Weight: | ABS radome/aluminum feed |
| Nominal Impedance: | 50 ohms | 6 dBi Models | 19 inches, 1.5 lbs |
| Max. Power (continuous): | 100 watts | 9 dBi Models | 27 inches, 2.0 lbs |
| Vertical Beamwidth (-3 dB point): | | 12 dBi Models | 43 inches, 2.5 lbs |
| 6 dBi Models | 25 degrees | Antenna Diameter: | 1", main mast |
| 9 dBi Models | 14 degrees | Connector: | N female standard |
| 12 dBi Models | 9 degrees | Mounting Kit: | Mast mount kit included |
| Wind Loading (flat plate equiv.): | 30-40 sq. inches | Mounting Dimensions: | |
| Rated Wind Velocity: | 100+ mph | Accessory: | Reflector Option Kit |

Product **Specifications**



P7-2400 shown wall mounted Preliminary Info

Mobile Mark's 2.4 GHz Patch Antenna is perfect for new Wireless LAN systems, as well as other applications in the ISM band. It has design features that make it invaluable, solving many of the problems normally associated with 2.4 GHz patch designs.

These antennas use a unique plate-air dielectric technology that provides significant improvements in efficiency while being very economical. VSWR performance is maintained across the operating bandwidth. The antenna

Model Number

Description Model

P7-2400T Patch Antenna with TNC P7-2400S Patch Antenna with SMA

Connectors provided are female. For other connectors or cable configurations, please consult factory.

COMMUNICATIONS ANTENNAS

Patch Antenna (Pat Pend.) WLAN & 2.4 GHz ISM Applications

- 4 1/2" weatherproof radome; perfect for in-building & outdoor coverage
- 7 dBi Gain model for 2.40 2.49 GHz
- Semi-hemisphere radiation pattern for easy installation
- Unique design provides high performance at an economical price

design also provides near hemispherical energy radiation, resulting in broad area coverage, yet maintaining directivity and isolation. The antenna provides 7 dBi gain with vertical polarization.

This Patch antenna is small and provides an attractive design. It has a diameter of 4 1/2". The radome consists of a ergo-white polycarbonate, allowing aesthetic installation in all environments. It is durable and weatherproof. The antenna is mounted to a swivel that allows it to be angled left or right with a 30 degree angle. Flush surface mounting and pole mounting can also be accommodated.

The cable feed exits near the bottom of the antenna in a "scalloped" port. This allows the cable to be directed up, down or straight back. The antenna terminates with 6" of low loss RG-188 with a choice of a female TNC or a female SMA connector.

Specifications

2400 - 2485 MHz Frequency: 7 dBi nominal Gain: Bandwidth @2.0:1 SWR: 85 MHz 50 Ohm nominal Impedance:

Maximum Power: 50 Watts E Plane beamwidth: 450 H Plane beamwidth: 600

Front-to-Back ratio: 10 dB minimum Lightning Protection: external recommended Radome Size: 4 1/2" diameter x 3/4" high,

Rated Wind Velocity: 100 mph+ Antenna Radome:

Weight:

Mounting:

Swivel Standoff:

Connector:

Mounting Dimension:

diameter mast

0.5 lbs

TNC or SMA female, others available upon request

Surface & pole mount, with

articulating swivel bracket

radome surface, centered Mounts up to 2" outside

White Polycarbonate

3" from wall to outer

Cable:

6 inches of RG-188

2.7 Peak power within the band 2400 – 2483.5 GHz per FCC Section 15.247(b)

Peak power within the band 2400-2483.5 GHz has been measured with a spectrum analyzer by connecting the spectrum analyzer directly via a short cable to the antenna output terminals or across the antenna leads on the PCB as specified by the manufacturer. The spectrum analyzer was set for a 50 Ω impedance with the VBW \geq RBW 6 dB bandwidth. The results of the measurements are given in Table 3 and Figure 3a through Figure 3c.

The EUT did not incorporate any antennas of directional gain greater than 6 dBi, therefore the output power has <u>not</u> been reduced as required by 15.247(b)(3).

TABLE 3 PEAK POWER OUTPUT

Test Date: April 30, 1999

UST Project: 99-317

Customer: Digital Wireless Corporation

Model: WIT2410

| Frequency of Fundamental (MHz) | Measurement (dBm)* | Measurement (Watt)* | FCC Limit* (Watt) | | |
|--------------------------------------|-----------------------|------------------------|----------------------|--|--|
| 2401.9 | 16.2 | 41.7 | 1.0 | | |
| 2440.0 | 16.8 | 47.8 | 1.0 | | |
| 2483.5 | 16.8 | 47.8 | 1.0 | | |

| * | Measurement | t include | s 0.3 | dB 1 | for ca | ble | loss |
|---|-------------|-----------|-------|------|--------|-----|------|
| | | | | | | | |

| rester | | | |
|------------|----|-----------------|--------------|
| Signature: | Na | ame: <u>Tir</u> | m R. Johnson |

Figure 3a.

Peak Power per FCC Section 15.247(b) (Low)

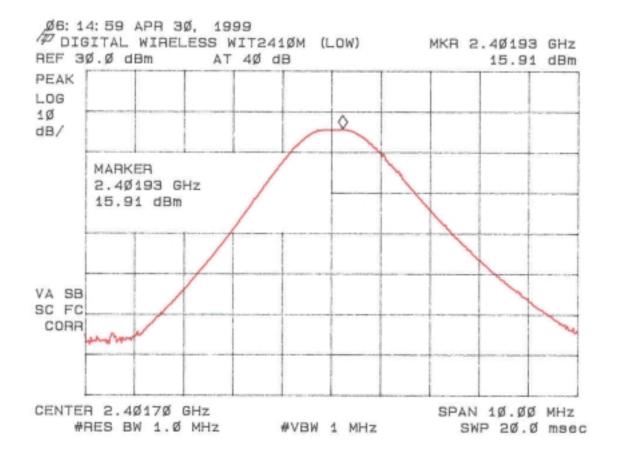


Figure 3b.

Peak Power per FCC Section 15.247(b) (Mid)

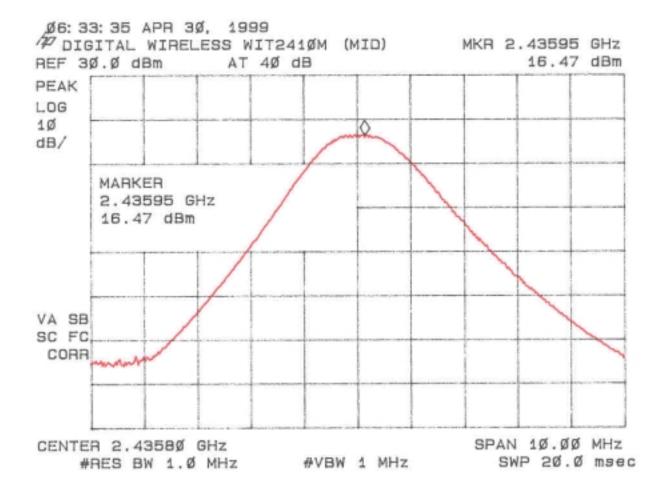
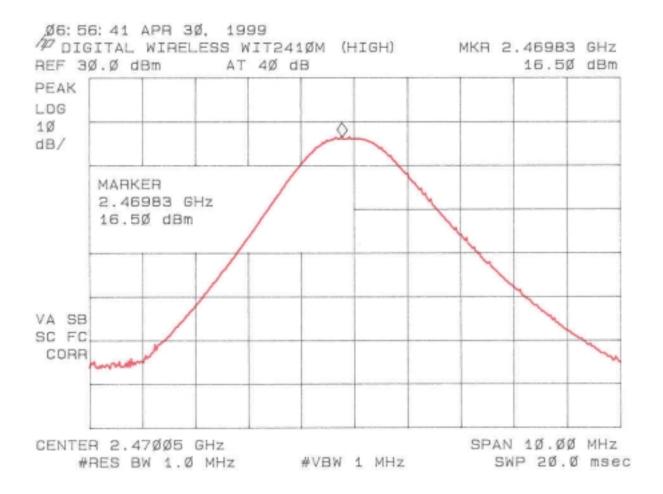


Figure 3c.
Peak Power per FCC Section 15.247(b) (High)



2.8 Antenna Conducted Spurious Emission in the Frequency Range 30 - 25000 MHz (FCC Section 15.247(c))

Spurious emissions in the frequency range 30 - 25000 have been measured with a spectrum analyzer by connecting the spectrum analyzer directly via a short cable to the antenna output terminals or across the antenna leads on the PCB as specified by the manufacturer. The spectrum analyzer was set for a 50 Ω impedance with the RBW = 100 kHz & VBW > RBW. All spurious emissions were measured to be greater than 20 dB down from the fundamental. The results of conducted spurious emissions are given in Figure 4a through Figure 4I.

Figure 4a
Antenna Conducted Spurious Emissions 15.247(c) Low

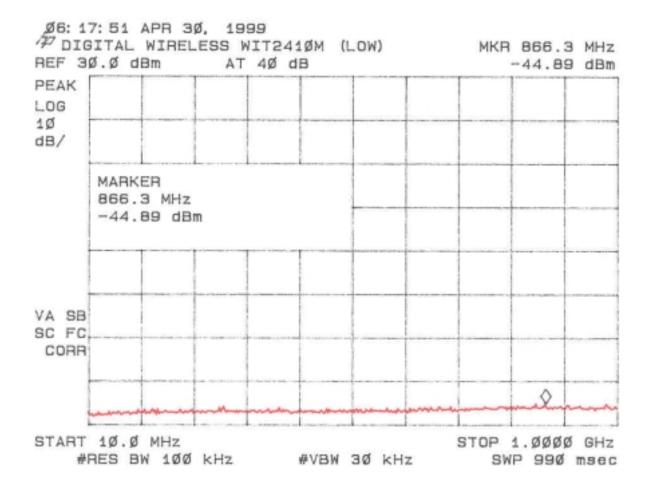


Figure 4b
Antenna Conducted Spurious Emissions 5.247(c) Low

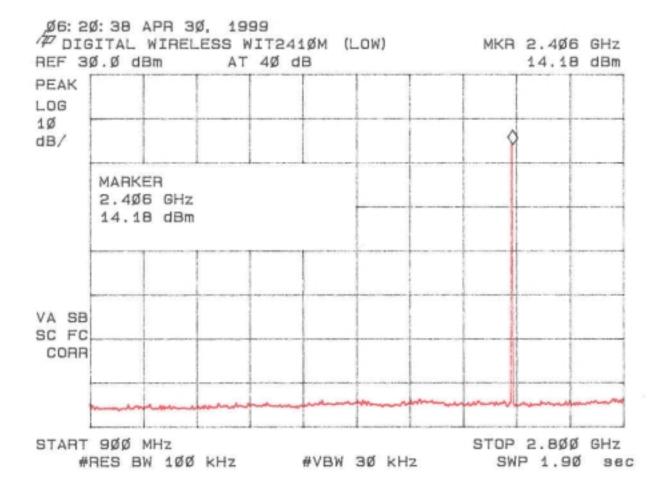


Figure 4c
Antenna Conducted Spurious Emissions 15.247(c) Low

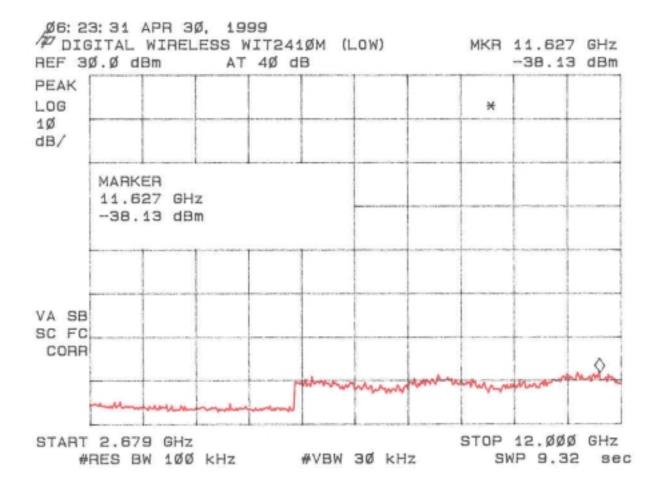


Figure 4d
Antenna Conducted Spurious Emissions 15.247(c) Low

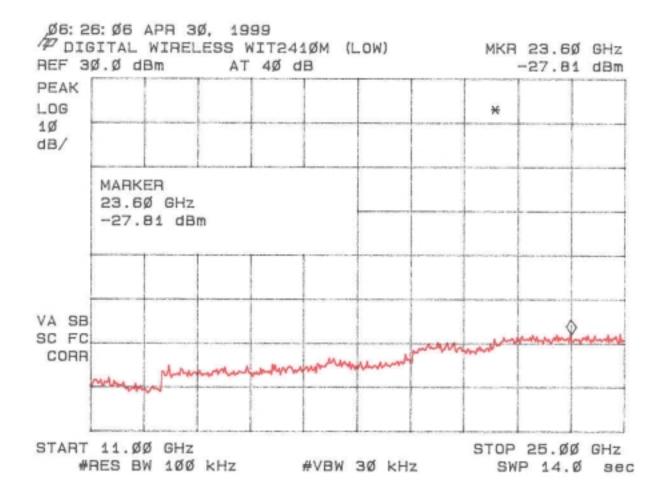


Figure 4e
Antenna Conducted Spurious Emissions 15.247(c) Mid

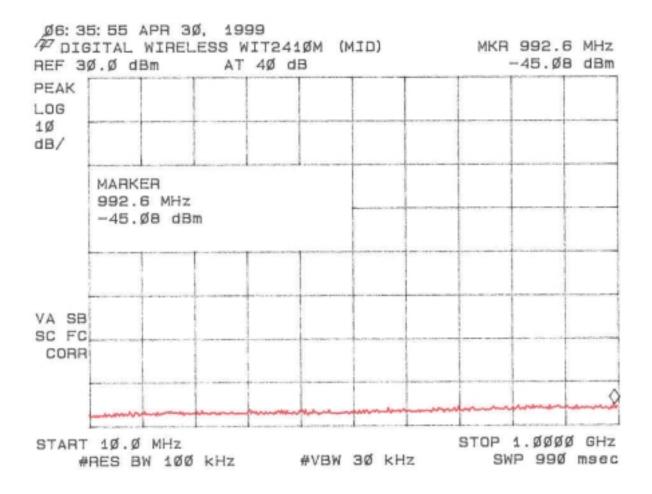


Figure 4f
Antenna Conducted Spurious Emissions 15.247(c) Mid

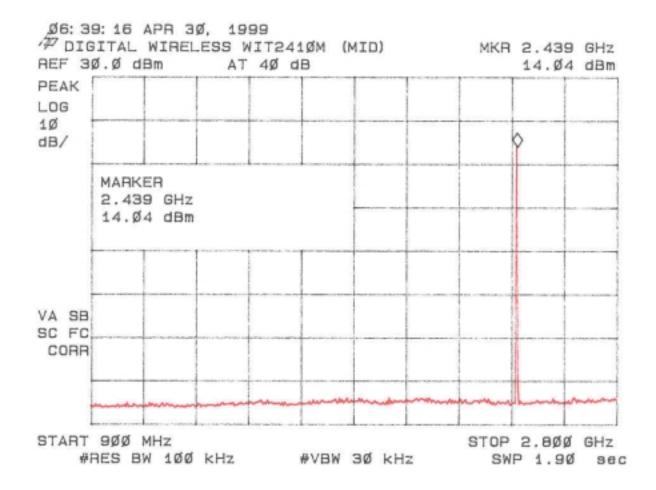


Figure 4g
Antenna Conducted Spurious Emissions 15.247(c) Mid

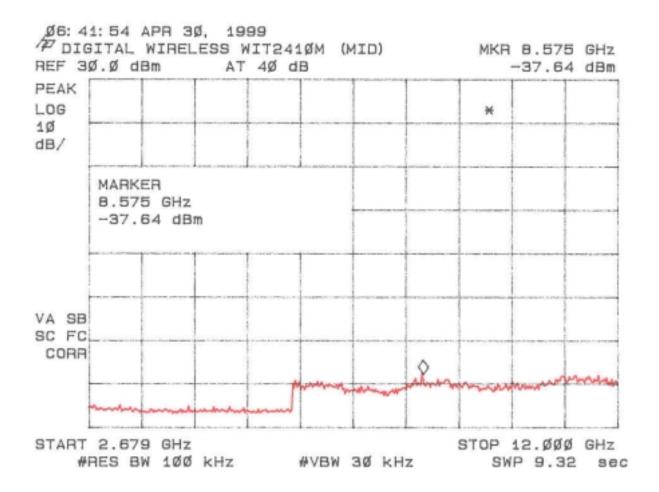


Figure 4h
Antenna Conducted Spurious Emissions 15.247(c) Mid

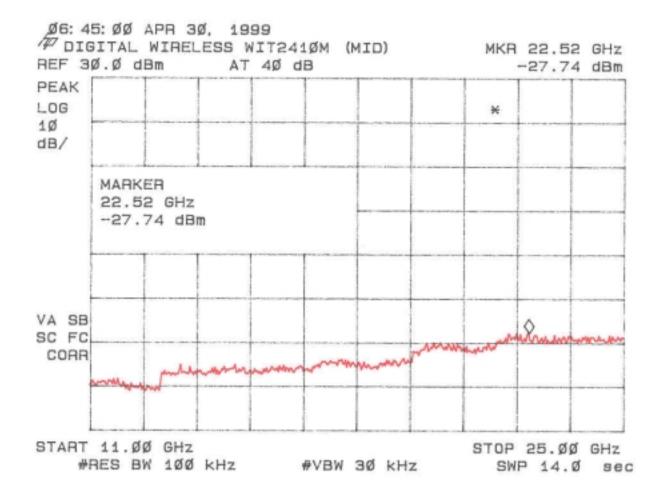


Figure 4i
Antenna Conducted Spurious Emissions 15.247(c) High

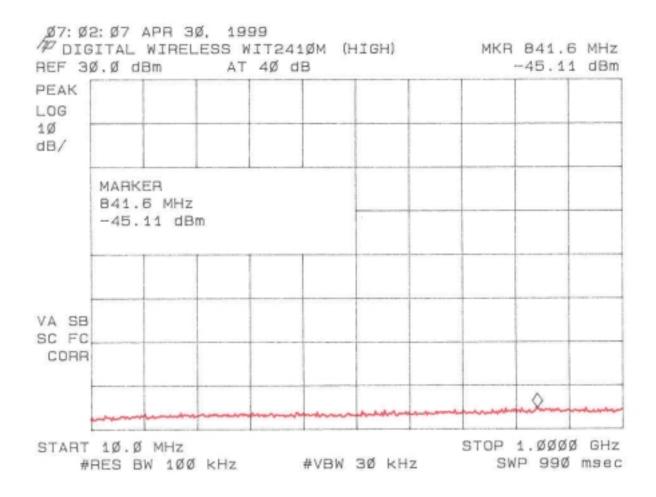


Figure 4j
Antenna Conducted Spurious Emissions 15.247(c) High

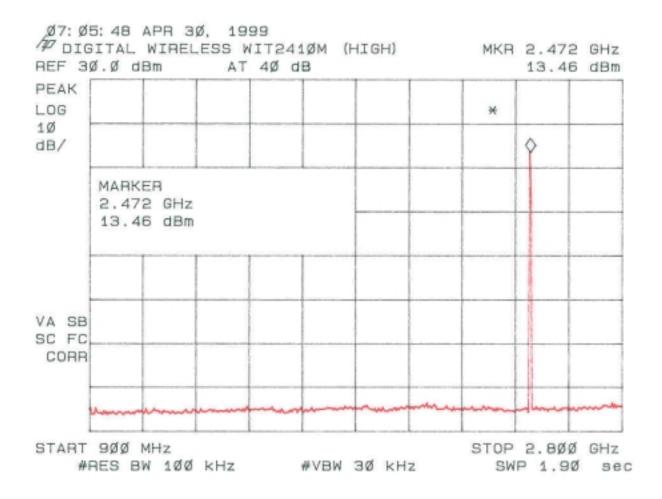


Figure 4k
Antenna Conducted Spurious Emissions 15.247(c) High

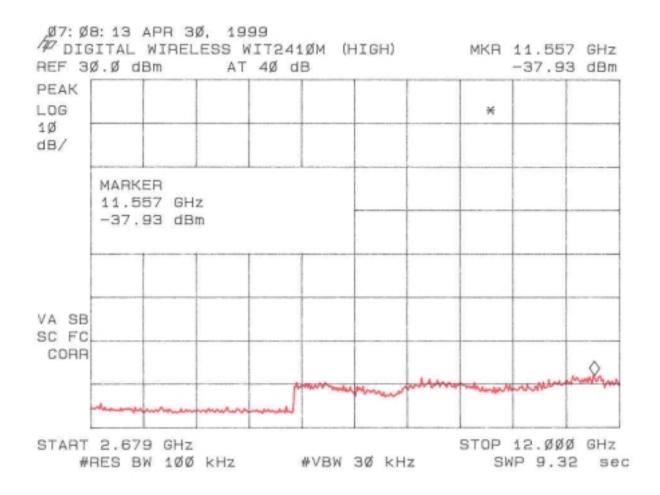


Figure 4I
Antenna Conducted Spurious Emissions 15.247(c) High

