

Exhibit 6

Test Report

Exhibit 6

Test Report

Name of Test: RF Power Output

Rule Part Number: 2.1046, 21.904(b), 74.935(b)
 EIRP = 33 dBW+10log(X/6) dBW+10log(360/beamwidth) dBW
 X = 6 for this filing
 $10\log(360/\text{beamwidth}) \leq 6\text{dB}$
 beamwidth minimum = 60°
 EIRP maximum = 39 dBiW = 7,943 W EIRP

Test Procedure: RF power output power of a Base Station is measured with the aid of an RF Power Meter that is capable of measuring a Time Division Duplexed (TDD) transmission. The transmitted spectrum of the Base Station, at the measured power level, is displayed on a spectrum analyzer and saved for a reference comparison. A CPE is then connected to the Spectrum Analyzer setup that was used for the Base Station power reference. The CPE is setup to upload a data file to the Base Station. The spectrum analyzer is triggered when the CPE transmits. The difference between the recorded spectrum of the CPE and the stored spectrum of the Base Station is noted and the appropriate power calculated.

Test Conditions: Frequency = 2557 MHz
 Temperature = 25°C
 Supply Voltage = 120 Vac / 60 Hz

Test Equipment: CPE

| | |
|-------------------|------------------------------------------------------------------------------------------------|
| DVM | Fluke 87 III Calibration not required |
| Spectrum Analyzer | Rohde&Schwarz Model: FSEA S/N: 832247/015 Cal Date: 05-19-2000 Cal Due: 05-19-2001 |
| Attenuator | Inmet Corporation Model: 12B25W-30dB Calibration not required |
| Computer | Dell Latitude LM Model: TS30GI FCC ID: IIRTS30GH S/N: 6497346BYK7274A |
| Power Supply | GlobTek, Inc. Model: GT-21097-4018 S/N: 00BD000420 |

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 Bloomington, MN 55431

Test Equipment: Base Station

| | |
|--------------------------|--------------------------------------------------------------------------------------------|
| Base Station | NextNet Wireless Model: 900-0100-1000 FCC ID: Pending |
| Power Meter | Hewlett Packard E4419A S/N: GB38271143 Cal Date: 10-1-1999 Cal Due: 10-1-2001 |
| Power Meter RF Head | Hewlett-Packard HP8481A S/N: US37299502 Cal Date: 10-1-1999 Cal Due: 10-1-2001 |
| Power Supply | Cherokee International Model: CRP500L1H-1A Calibration not required |
| Dual Directional Coupler | Hewlett Packard HP 777D S/N: 01271 |
| Attenuator | Inmet Corporation Model: 12B25W-20dB Calibration not required |
| Attenuator (3) | Pasternak Model: PE7016-20 / 20 dB Calibration not required |
| Attenuator | Pasternak Model: PE7016-10 / 10 dB Calibration not required |
| Computer | Dell Dimension L550r Model: MCM S/N: 2ATPY |

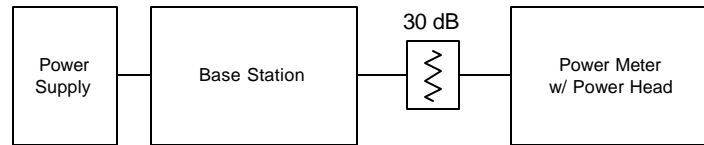
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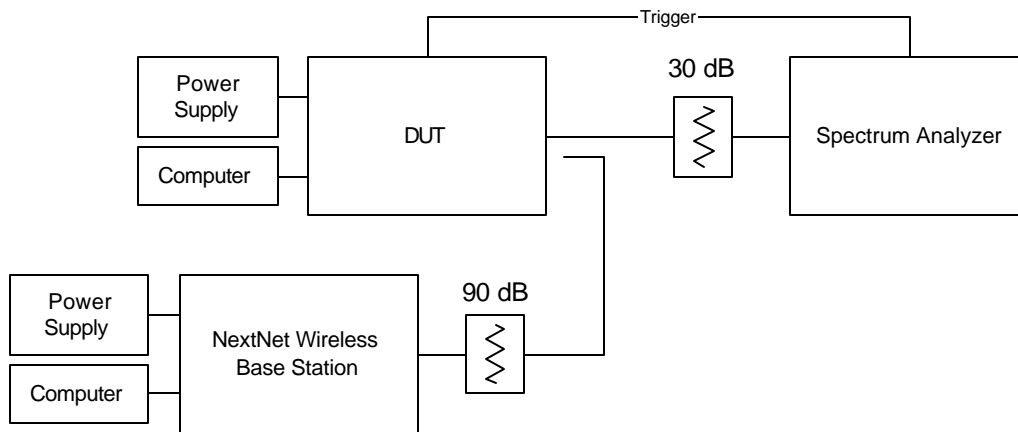
Name of Test: RF Power Output

Test Set-Up:

Base Station power verification



CPE power measurement



Test Results:

| Minimum Power setting | |
|-----------------------|---------|
| (dBm) | (Watts) |
| 33.2 | 2.07 |

| Maximum Power setting | |
|-----------------------|---------|
| (dBm) | (Watts) |
| -0.3 | 0.00093 |

Exhibit 6

Test Report

Name of Test: RF Power Output

Test Conclusions:

RF Power Output = 33 dBm

Antenna Gain = 13 dBi

Transmitted Power = RF Power + Isotropic Antenna Gain

Transmitted Power = 33 + 13 = 46 dBm

Transmitted Power = 16 dBiW < 39 dBiW

Pass Transmitted Power Output Requirement

Exhibit 6

Test Report

Name of Test: Modulation Characteristics

Rule Part Number: 2.1047(d), 21.905(b), 74.936(a), 21.908(d), 74.936(f)

Modulation Characteristics = OFDM

21.908(d) The maximum out-of-band power of an MDS response station using all or part of a 6 MHz channel, employing digital modulation and transmitting with an EIRP greater than -6 dBW per 6 MHz channel shall be attenuated (as measured in accordance with paragraph (e) of this section) at the 6 MHz channel edges at least 25 dB relative to the average 6 MHz channel power level, then attenuated along a linear slope to at least 40 dB at 250 kHz beyond the nearest channel edge, then attenuated along a linear slope from that level to at least 60 dB at 3 MHz above the upper and below the lower licensed channel edges, and attenuated at least 60 dB at all other frequencies.

74.936(f) The maximum out-of-band power of an ITFS response station using all or part of a 6 MHz channel, employing digital modulation and transmitting with an EIRP greater than -6 dBW per 6 MHz channel shall be attenuated (as measured in accordance with § 21.908(e)) at the 6 MHz channel edges at least 25 dB relative to the average 6 MHz channel power level, then attenuated along a linear slope to at least 40 dB at 250 kHz beyond the nearest channel edge, then attenuated along a linear slope from that level to at least 60 dB at 3 MHz above the upper and below the lower licensed channel edges, and attenuated at least 60 dB at all other frequencies.

Exhibit 6

Test Report

Name of Test: Modulation Characteristics

Test Procedure: The Orthogonal Frequency Division Multiplexing (OFDM) modulated Time Division Duplex (TDD) RF signal from the test unit is applied to a spectrum analyzer. The emissions of the test unit are recorded for minimum and maximum RF power levels. The CPE is setup to upload a data file to the Base Station. The spectrum analyzer is configured to trigger when the CPE transmits.

Test Conditions: Frequency = 2557 MHz
Temperature = 25°C
Supply Voltage = 120 Vac / 60 Hz

Test Equipment: CPE

| | |
|-------------------|------------------------------------------------------------------------------------------------|
| DVM | Fluke 87 III Calibration not required |
| Spectrum Analyzer | Rohde&Schwarz Model: FSEA S/N: 832247/015 Cal Date: 05-19-2000 Cal Due: 05-19-2001 |
| Computer | Dell Latitude LM Model: TS30GI FCC ID: IIRTS30GH S/N: 6497346BYK7274A |
| Power Supply | GlobTek, Inc. Model: GT-21097-4018 S/N: 00BD000420 |

Exhibit 6
Test Report

Name of Test: Modulation Characteristics

Test Equipment: Base Station

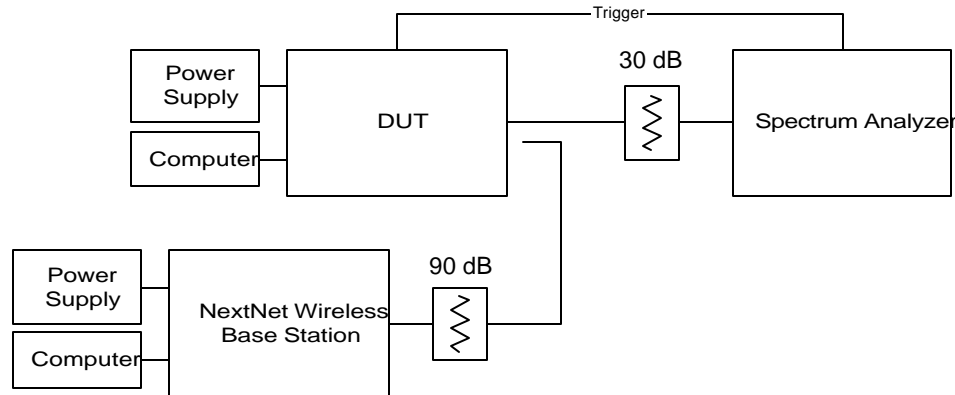
| | |
|--------------------------|---------------------------------------------------------------------------|
| Base Station | NextNet Wireless Model: 900-0100-1000 FCC ID: Pending |
| Power Supply | Cherokee International Model: CRP500L1H-1A Calibration not required |
| Dual Directional Coupler | Hewlett Packard HP 777D S/N: 01271 |
| Attenuator | Inmet Corporation Model: 12B25W-20dB Calibration not required |
| Attenuator (4) | Pasternak Model: PE7016-20 / 20 dB Calibration not required |
| Attenuator | Pasternak Model: PE7016-10 / 10 dB Calibration not required |
| Computer | Dell Dimension L550r Model: MCM S/N: 2ATPY |

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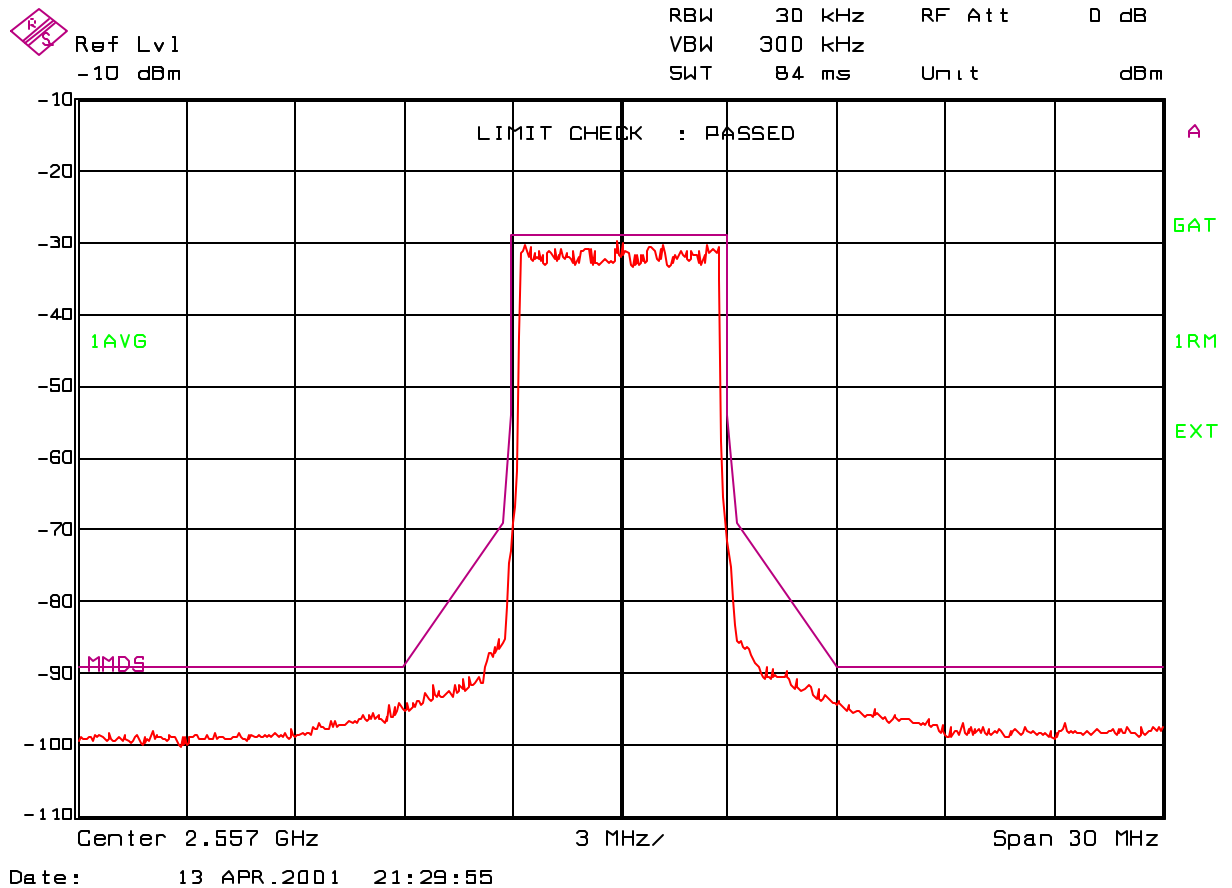
Test Report

Name of Test: Modulation Characteristics

Test Set-Up:



Test Results: Minimum Power Level (0dBm / 1mW)



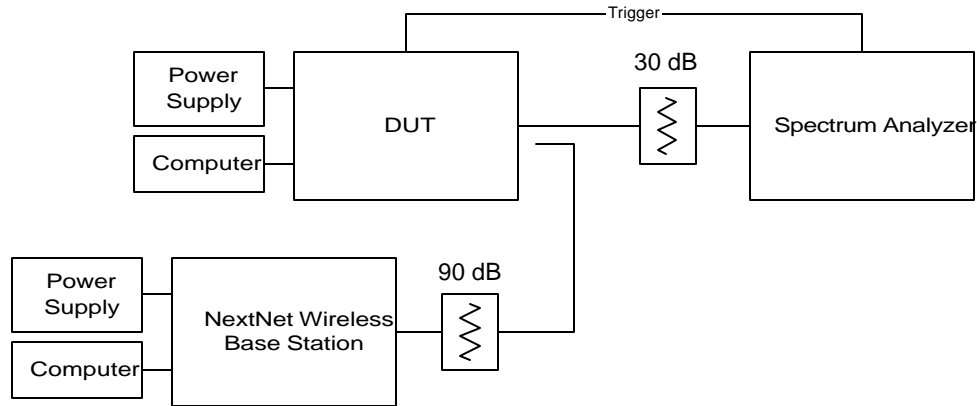
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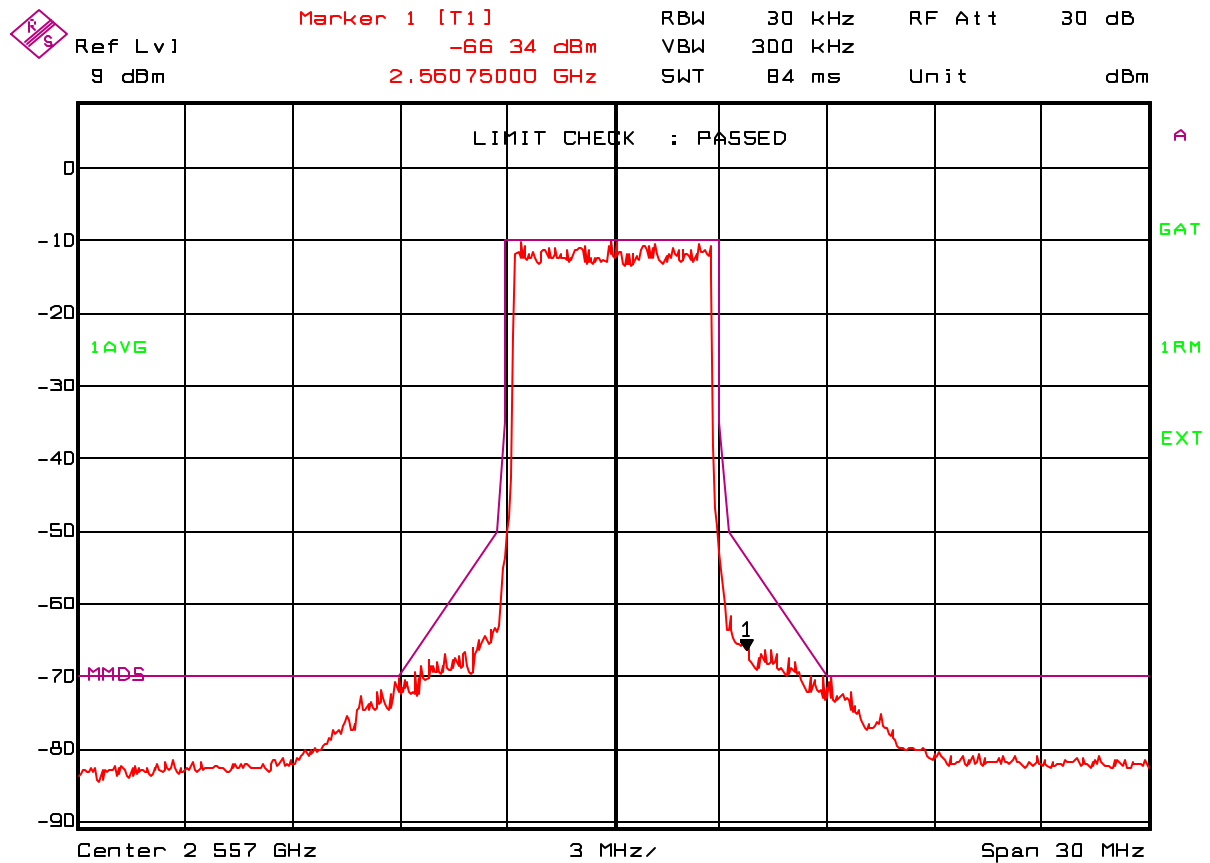
Test Report

Name of Test: Modulation Characteristics

Test Set-Up:



Test Results: Maximum Power Level (33dBm / 2W)



Date: 13.APR.2001 20:43:04

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Exhibit 6

Test Report

Name of Test: Occupied Bandwidth

Rule Part Number: 2.1049(h), 21.105

Each authorization issued pursuant to these rules will show, as the emission designator, a symbol representing the class of emission which shall be prefixed by a number specifying the necessary bandwidth. This figure does not necessarily indicate the bandwidth actually occupied by the emission at any instant. In those cases where part 2 of this chapter does not provide a formula for the computation of the necessary bandwidth, the occupied bandwidth may be used in the emission designator.

Test Procedure: The Orthogonal Frequency Division Multiplexing (OFDM) modulated Time Division Duplex (TDD) RF signal from the test unit is applied to a spectrum analyzer. The occupied bandwidth of the test unit is recorded by measuring the modulation bandwidth at the 25 dB points. Transmit power was at 2 watts. The CPE is setup to upload a data file to the Base Station. The spectrum analyzer is configured to trigger when the CPE transmits.

Test Conditions : Frequency = 2557 MHz
 Temperature = 25°C
 Supply Voltage = 120 Vac / 60 Hz

Test Equipment: CPE

| | |
|-------------------|------------------------------------------------------------------------------------------------|
| DVM | Fluke 87 III Calibration not required |
| Spectrum Analyzer | Rohde&Schwarz Model: FSEA S/N: 832247/015 Cal Date: 05-19-2000 Cal Due: 05-19-2001 |
| Computer | Dell Latitude LM Model: TS30GI FCC ID: IIRTS30GH S/N: 6497346BYK7274A |
| Power Supply | GlobTek, Inc. Model: GT-21097-4018 S/N: 00BD000420 |

Exhibit 6

Test Report

Name of Test: Occupied Bandwidth

Test Equipment: Base Station

| | |
|--------------------------|---------------------------------------------------------------------------|
| Base Station | NextNet Wireless Model: 900-0100-1000 FCC ID: Pending |
| Power Supply | Cherokee International Model: CRP500L1H-1A Calibration not required |
| Dual Directional Coupler | Hewlett Packard HP 777D S/N: 01271 |
| Attenuator | Inmet Corporation Model: 12B25W-20dB Calibration not required |
| Attenuator (4) | Pasternak Model: PE7016-20 / 20 dB Calibration not required |
| Attenuator | Pasternak Model: PE7016-10 / 10 dB Calibration not required |
| Computer | Dell Dimension L550r Model: MCM S/N: 2ATPY |

Test Results Summary:

Channel 1

Occupied Bandwidth = 2.50586323 GHz – 2.50016683 GHz

Occupied Bandwidth = 5.6964 MHz

Channel 10

Occupied Bandwidth = 2.559878260 GHz – 2.55415180 GHz

Occupied Bandwidth = 5.726460 MHz

Channel 31

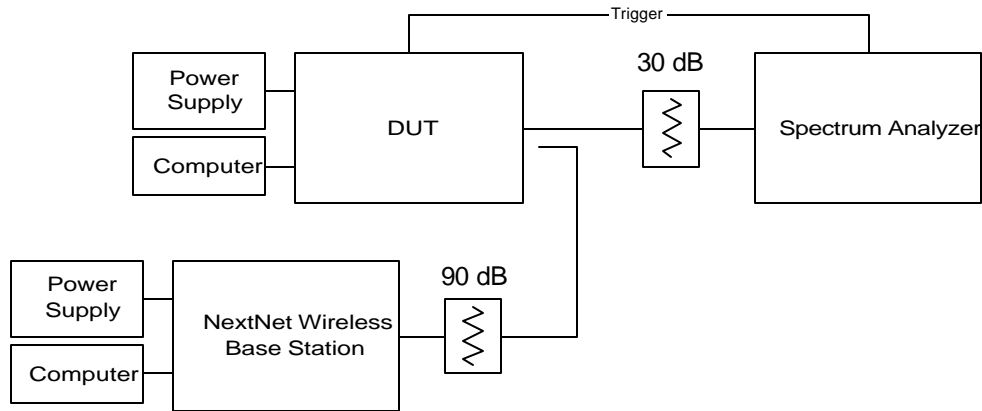
Occupied Bandwidth = 2.68584820 GHz – 2.68016683 GHz

Occupied Bandwidth= 5.681370 MHz

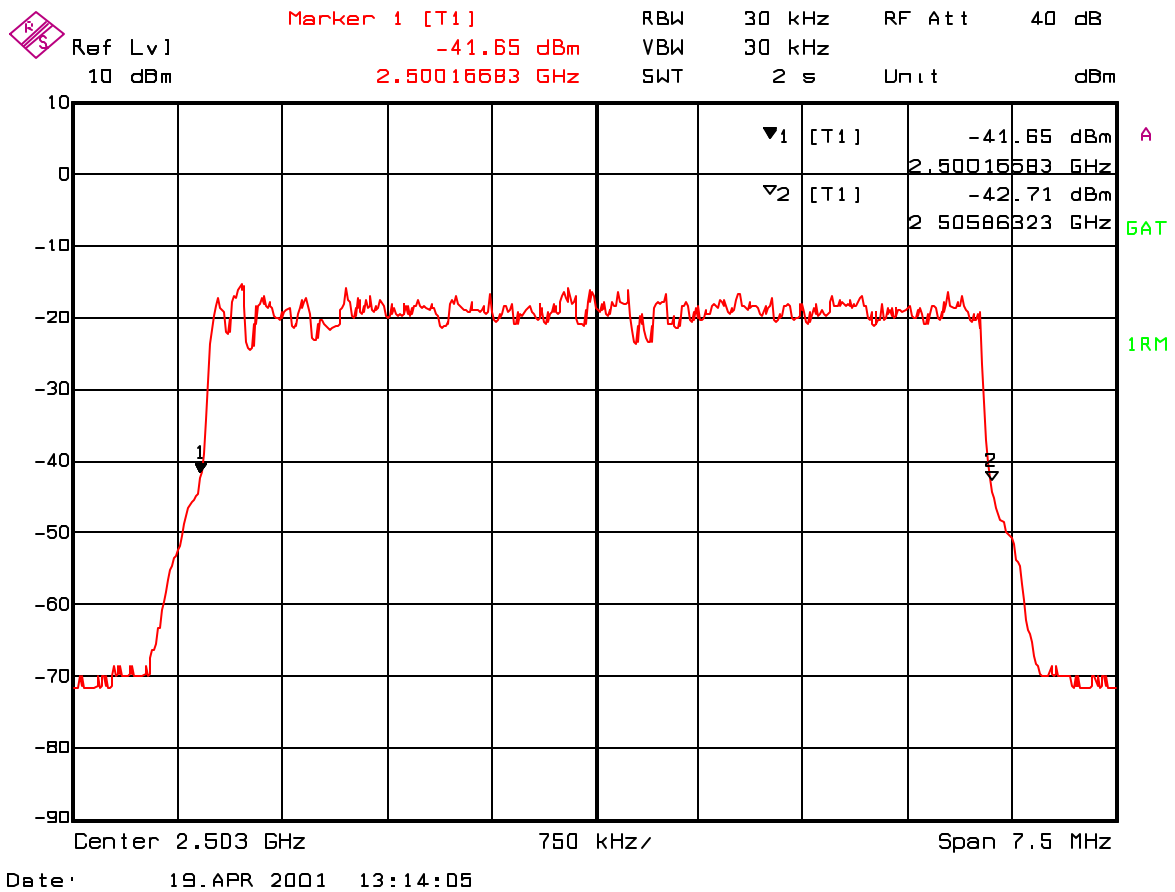
Exhibit 6 Test Report

Name of Test: Occupied Bandwidth

Test Set-Up:



Test Results: Channel 1

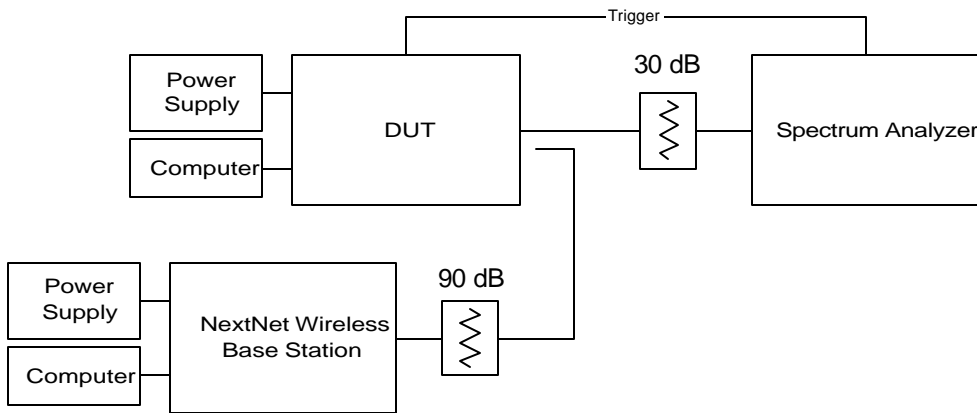


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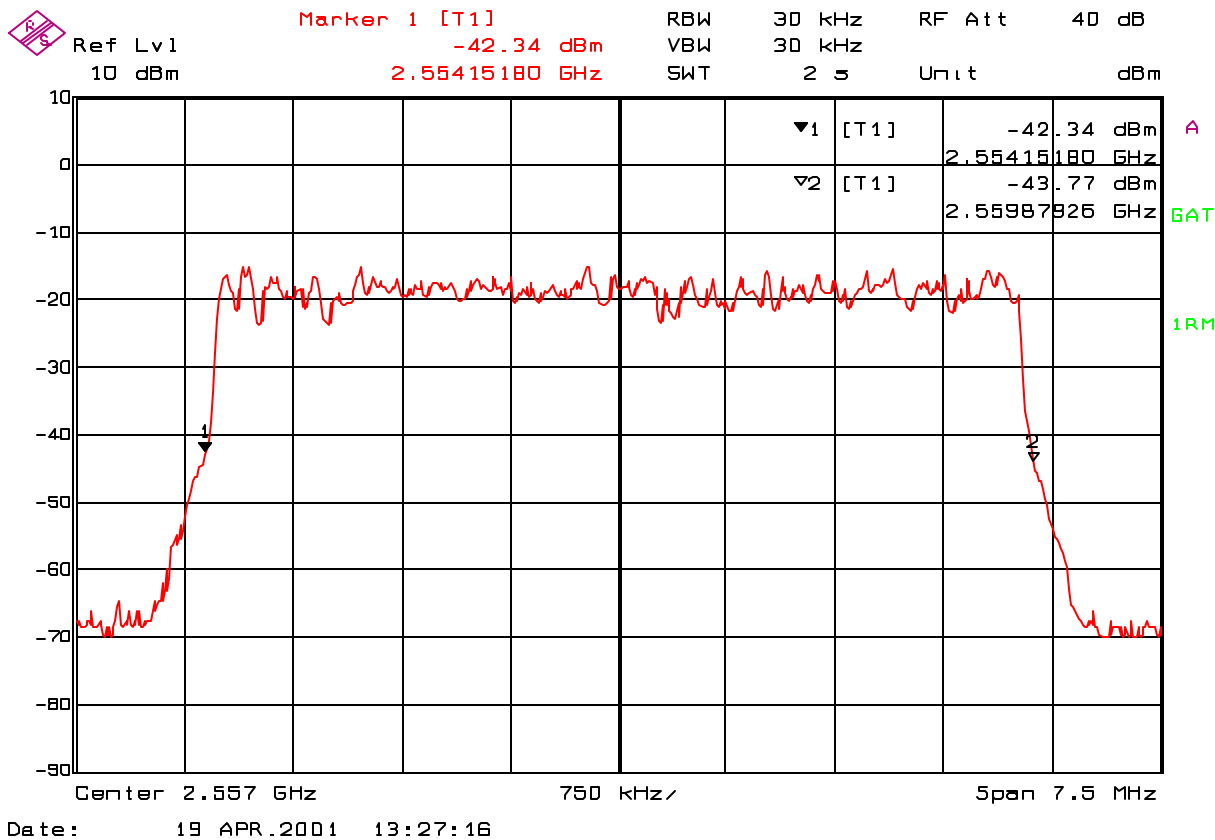
Exhibit 6
Test Report

Name of Test: Occupied Bandwidth

Test Set-Up:



Test Results: Channel 10

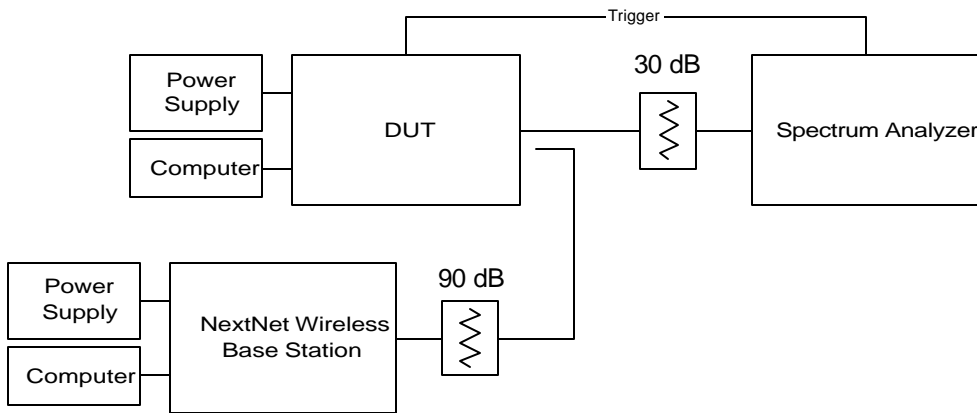


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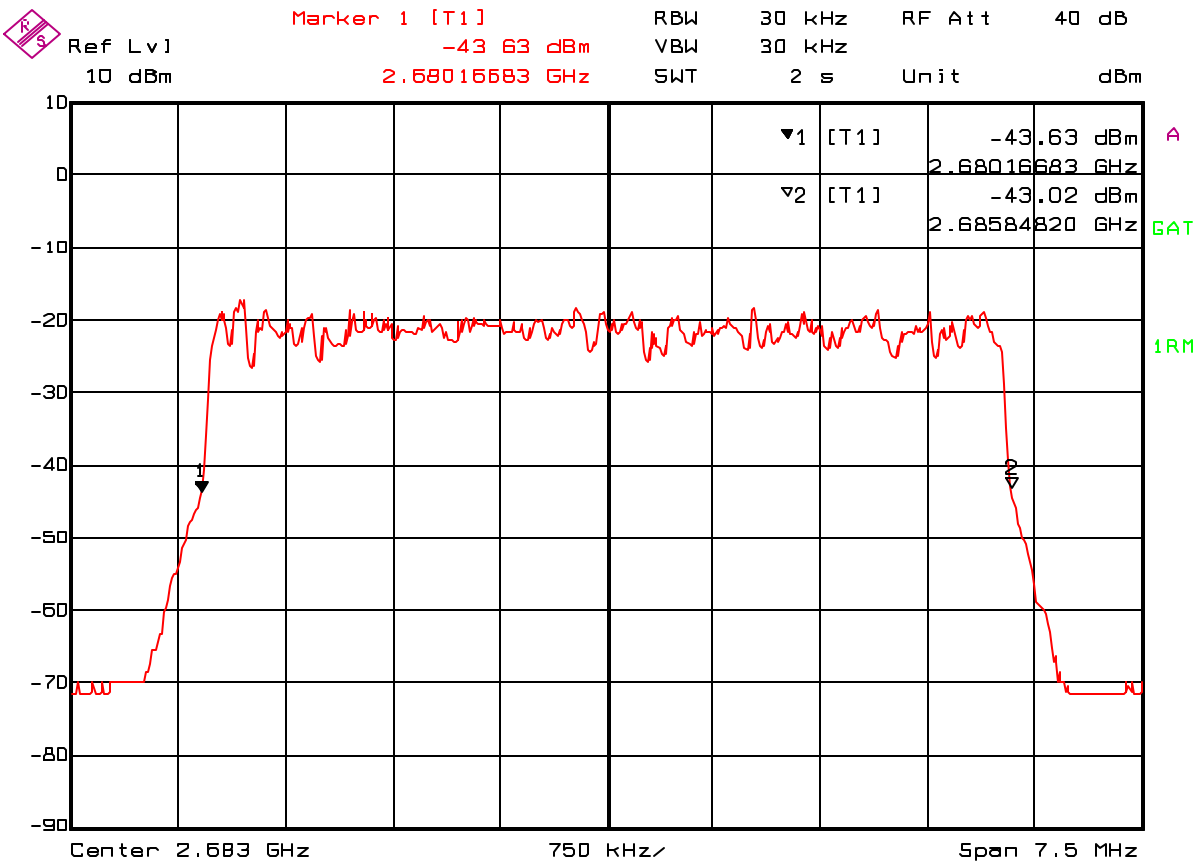
Exhibit 6
Test Report

Name of Test: Occupied Bandwidth

Test Set-Up:



Test Results: Channel 31



Date: 19.APR.2001 13:19:38

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Exhibit 6

Test Report

Name of Test: Spurious emissions at antenna terminals

Rule Part Number: 2.1051, 2.1049, 2.1057

Frequency Range = 9 kHz to 26.86 GHz

Attenuation (dB) below the power (W) supplied to the antenna transmission line

Attenuation = $43 + 10 \log P$, or 70 dBc, whichever is less stringent

Attenuation = $43 + 10 \log 2 = 46$ dBc 2 watt transmit level

Attenuation = $43 + 10 \log .001 = 13$ dBc 0.001 watt transmit level

Test Procedure: The Orthogonal Frequency Division Multiplexing (OFDM) modulated Time Division Duplex (TDD) RF signal from the test unit is applied to a spectrum analyzer. The transmission is recorded from 9 kHz to 26.5 GHz. The CPE is setup to upload a data file to the Base Station.

Test Conditions: Frequency = 2557 MHz
Temperature = 25°C
Supply Voltage = 120 Vac / 60 Hz

Exhibit 6

Test Report

Name of Test: Spurious emissions at antenna terminals

Test Equipment: CPE

| | |
|----------------------|--------------------------------------------------------------------------------|
| DVM | Fluke 87 III Calibration not required |
| Attenuator | Inmet Corporation Model: 12B25W-30dB Calibration not required |
| Spectrum Analyzer | Hewlett Packard HP8753C S/N: 3025A00263 Calibration not required |
| Network Analyzer | Hewlett Packard HP8753C S/N: 3025A00263 Calibration not required |
| S-Parameter Test Set | Hewlett Packard HP85047A S/N: 3033A02955 Calibration not required |
| Computer | Dell Latitude LM Model: TS30GI FCC ID: IIRTS30GH S/N: 6497346BYK7274A |
| Power Supply | GlobTek, Inc. Model: GT-21097-4018 S/N: 00BD000420 |

Exhibit 6

Test Report

Name of Test: Spurious emissions at antenna terminals

Base Station

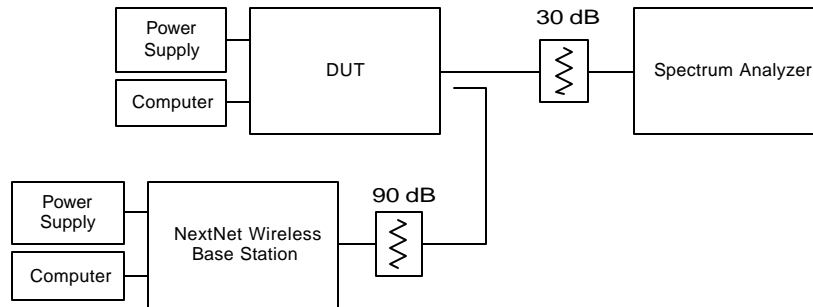
| | |
|--------------------------|---------------------------------------------------------------------------|
| Base Station | NextNet Wireless Model: 900-0100-1000 FCC ID: Pending |
| Power Supply | Cherokee International Model: CRP500L1H-1A Calibration not required |
| Dual Directional Coupler | Hewlett Packard HP 777D S/N: 01271 |
| Attenuator (3) | Pasternak Model: PE7016-20 / 20 dB Calibration not required |
| Attenuator | Inmet Corporation Model: 12B25W-20dB Calibration not required |
| Attenuator | Pasternak Model: PE7016-10 / 10 dB Calibration not required |
| Computer | Dell Dimension L550r Model: MCM S/N: 2ATPY |

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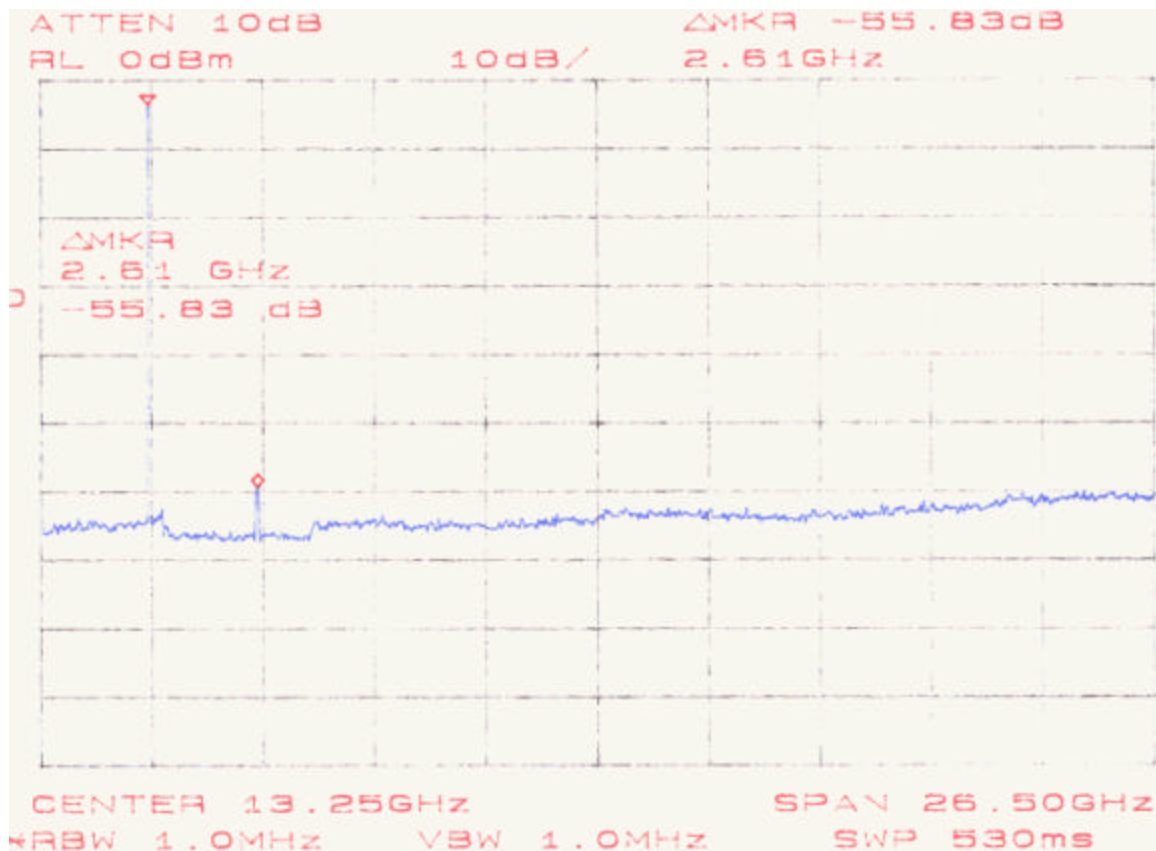
Test Report

Name of Test: Spurious emissions at antenna terminals

Test Setup:



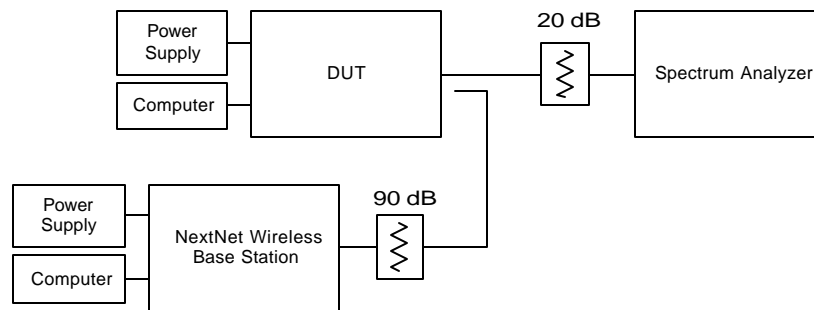
Test Results: The second harmonic is measured to be 55.8 dB below the power of the desired signal at the 2 watt transmit level. This signal is 9.8 dB below the specification. There were no other observed emissions.



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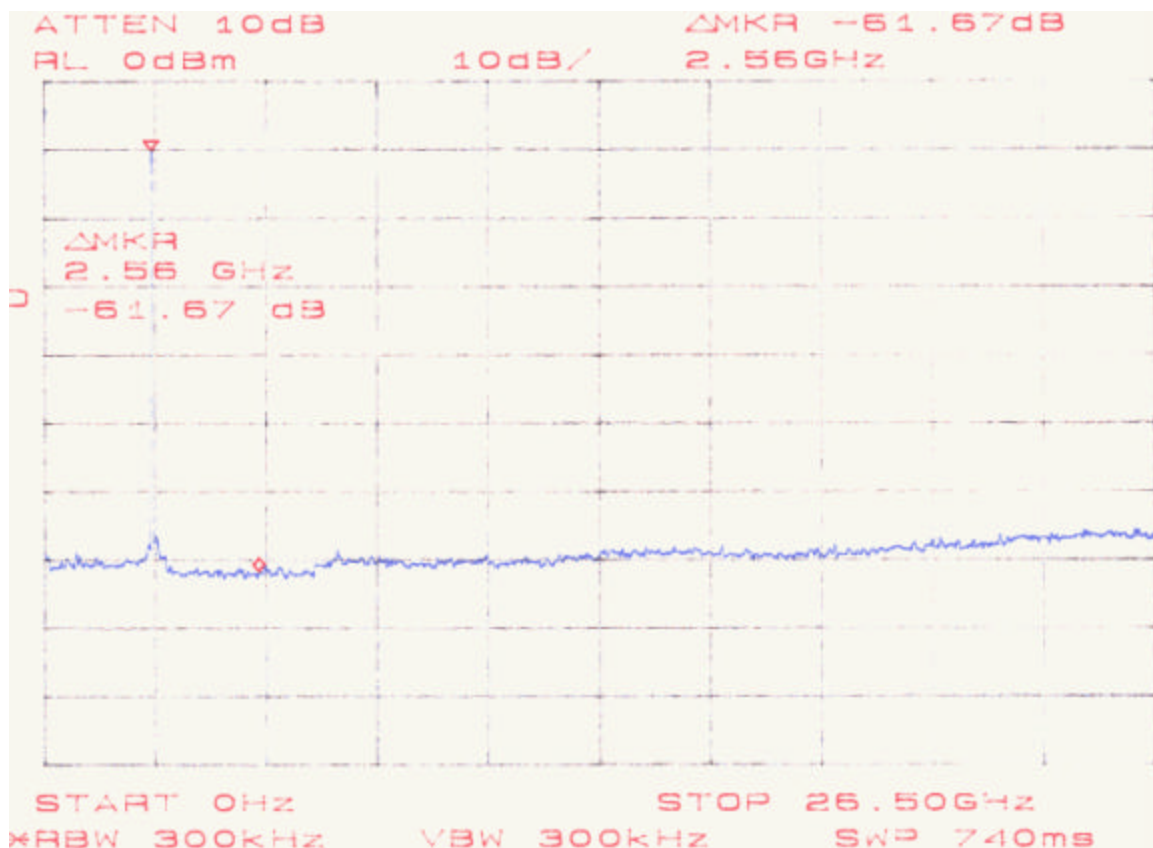
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Test Report



Name of Test: Spurious emissions at antenna terminals

Test Results: No emissions were observed at the .001 watt transmit level.



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Exhibit 6

Test Report

Name of Test: Field strength of spurious radiation

Rule Part Number: 2.1053, 2.1049, 2.1057

Frequency Range = 9 kHz to 26.86 GHz

Case Radiation Attenuation = $43 + 10 \log P = -13$ dBm maximum

Test Procedure: The field strength of spurious radiation was measured at an open area test site with applicable measurement antennas, low noise amplifiers, and spectrum analyzers. Measurements were performed by TUV Product Service Inc – Taylors Falls. Spurious signals were maximized for peak level by rotation of the test unit and elevation of the measurement antenna. Antenna substitution was performed to verify compliance with the regulations. Identified spurious signals were measured in an RF span of 120 kHz and a resolution bandwidth of 10 kHz.

Test Conditions: Frequency = 2557 MHz

Temperature = 25°C

Supply Voltage = 120 Vac / 60 Hz

Exhibit 6

Test Report

Name of Test: Field strength of spurious radiation

Test Equipment: NextNet Wireless, Inc.

CPE

| | |
|--------------|----------------------------------------------------------------------|
| Computer | Dell laptop computer Model: Inspiron 3500 S/N: 9021946BY11687A |
| Power Supply | GlobTek, Inc. Model: GT-21097-4018 S/N: 00BD000420 |

Base Station

| | |
|----------------|---------------------------------------------------------------------------|
| Base Station | NextNet Wireless Model: 900-0100-1000 FCC ID: Pending |
| Power Supply | Cherokee International Model: CRP500L1H-1A Calibration not required |
| Attenuator | Inmet Corporation Model: 12B25W-20dB Calibration not required |
| Attenuator (4) | Pasternak Model: PE7016-20 / 20 dB Calibration not required |
| Attenuator | Pasternak Model: PE7016-10 / 10 dB Calibration not required |
| Computer | Dell Model: Inspiron I8000 S/N: 16757638993 |

Exhibit 6

Test Report

Name of Test: Field strength of spurious radiation

Test Equipment: TUV Product Services

Emissions Test Conditions: RADIATED EMISSIONS (Electric Field)

The *RADIATED EMISSIONS (ELECTRIC FIELD)* measurements, in the frequency range of 30 MHz-1000 MHz, were tested in a horizontal and vertical polarization at the following test location :

☒ - Wild River Lab Large Test Site (Open Area Test Site) – NSA measurements made 7-00, due 7-01

☐ - Wild River Lab Small Test Site (Open Area Test Site)

☐ - Oakwood Lab (Open Area Test Site)

at a test distance of :

☒ - 3 meters

☐ - 10 meters

☐ - 30 meters

Test equipment used :

| | TUV ID | Model Number | Manufacturer | Description | Serial Number | Cal Due |
|---------------------------------------|-------------------|-------------------------|---------------------|--------------------------------|--------------------------|----------------|
| <input checked="" type="checkbox"/> - | 2543 | ZHL-1042J | Mini-Circuits | Preamplifier | H072294-11 | 3-12-02 |
| <input checked="" type="checkbox"/> - | 3202 | EM-6917B | Electro-Metrics | Biconicalog Periodic | 101 | 9-21-01 |
| <input checked="" type="checkbox"/> - | 2690 | 8566B | Hewlett-Packard | Spectrum Analyzer (Unit F) | 2430A00930 | 5-16-01 |
| <input checked="" type="checkbox"/> - | 2678 | 85662A | Hewlett-Packard | Analyzer Display (Unit F) | 2403A08134 | 5-16-01 |
| <input checked="" type="checkbox"/> - | 2684 | 85650A | Hewlett-Packard | Quasi-Peak Adapter (Unit F) | 2521A01006 | 5-24-01 |

Exhibit 6

Test Report

Name of Test: Field strength of spurious radiation

Test Equipment: TUV Product Services

Emissions Test Conditions: RADIATED EMISSIONS (Electric Field)

The *EQUIVALENT RADIATED EMISSIONS* measurements in the frequency range 1 GHz - 26 GHz were performed in a horizontal and vertical polarization at the following test location :

- ☒ - Wild River Lab Large Test Site (Open Area Test Site)
- ☐ - Wild River Lab Small Test Site (Open Area Test Site)
- ☐ - Oakwood Lab (Open Area Test Site)
- ☐ - Wild River Lab Screen Room

at a test distance of:

- ☐ - 1 meters
- ☒ - 3 meters
- ☐ - 10 meters

Test equipment used :

| | TUV ID | Model Number | Manufacturer | Description | Serial Number | Cal Due |
|-----|-------------------|-------------------------|-----------------------------|--------------------------------|--------------------------|----------------|
| ■ - | 2543 | ZHL-1042J | Mini-Circuits | Preamplifier | H072294-11 | 3-12-02 |
| ■ - | 3202 | EM-6917B | Electro-Metrics | Biconicalog Periodic | 101 | 9-21-01 |
| ■ - | 2690 | 8566B | Hewlett-Packard | Spectrum Analyzer (Unit F) | 2430A00930 | 5-16-01 |
| ■ - | 2678 | 85662A | Hewlett-Packard | Analyzer Display (Unit F) | 2403A08134 | 5-16-01 |
| ■ - | 2684 | 85650A | Hewlett-Packard | Quasi-Peak Adapter (Unit F) | 2521A01006 | 5-24-01 |
| ■ - | 2075 | 3115 | Electro-Mechanics (EMCO) | Ridge Guide Ant. 1-18 GHz | 9001-3275 | 10-20-01 |
| ■ - | 3010 | 6769B | Wiltron | Signal Generator | 159003 | 5-10-01 |
| ■ - | 2478 | AWT-18037 | Avantek | Preamplifier 8- 18 GHz | 1001-9226 | 3-16-02 |
| ■ - | 2477 | AFT-8434 | Avantek | Preamplifier 4-8 GHz | 2613A92801 | 3-16-02 |
| ■ - | 2788 | 3116 | Electro-Mechanics (EMCO) | Ridge Guide Ant 18-40 GHz | 2005 | 1-18-02 |
| ■ - | 3229 | 3115 | Electro-Mechanics | Ridge Guide | 2483 | 1-24-02 |

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| | | | | | |
|-----|--------|---------------------------|---------------------------------------|------------|------|
| ■ - | 11970K | (EMCO) Hewlett-Packard | Antenna Ext. mixer 18- 26.5 GHz | 2332A01170 | 1-03 |
| ■ - | 11975A | Hewlett-Packard | Amplifier | 2738A01200 | 3-01 |

Test Set-Up:

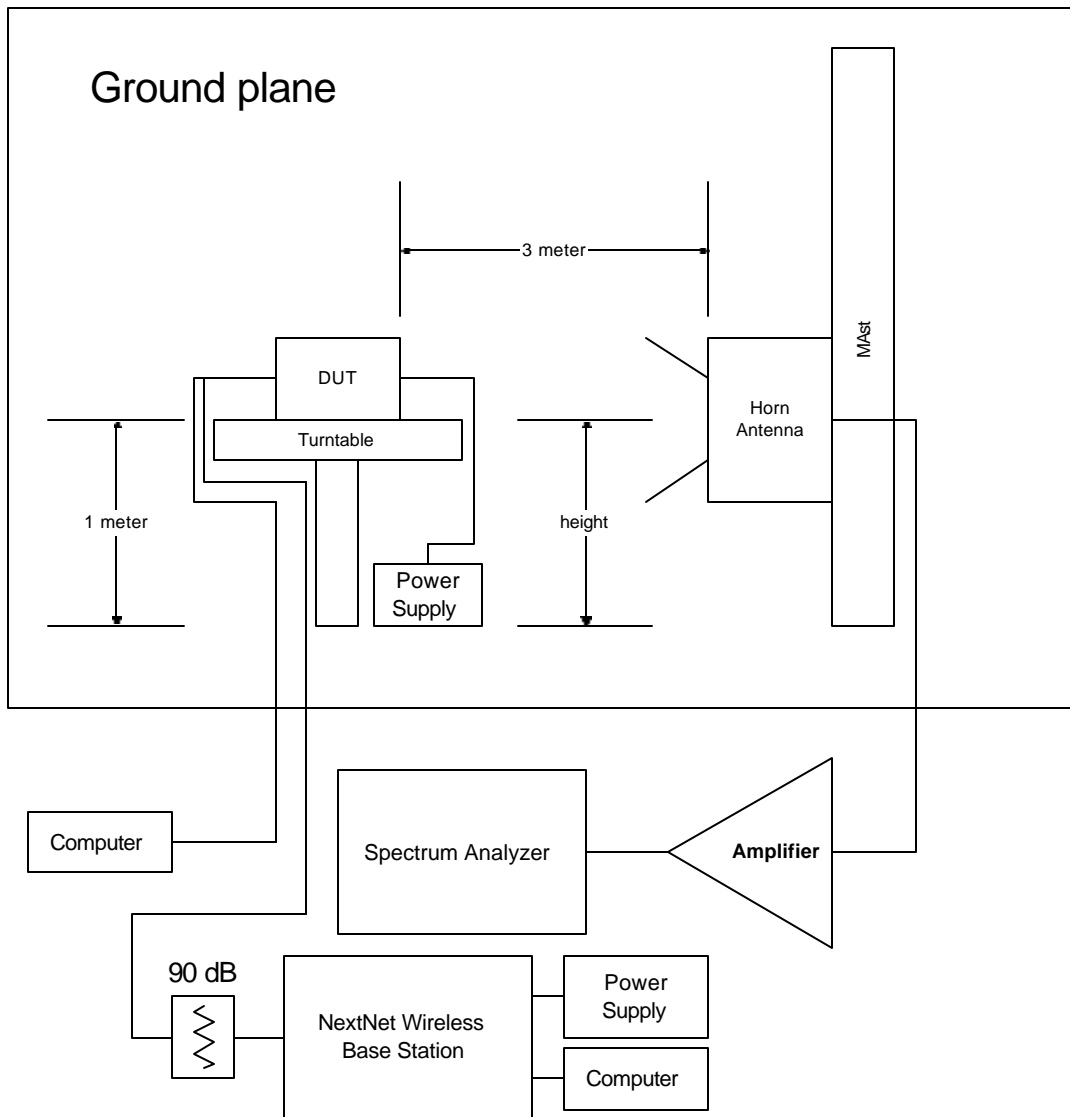


Exhibit 6

Name of Test: Field strength of spurious radiation

Test Results: Pass

| Frequency (MHz) | Emission | | Height (m) | Azmuith (degrees) | Generator |
|--------------------|-----------------|----------|---------------|----------------------|--------------------------------|
| | Level (dBuV) | Polarity | | | Substitution Level (dBm) |
| 125.97 | 42.9 | V | 1.0 | 331 | -30.25 |
| 167.98 | 39.1 | V | 1.0 | 0 | -34.05 |
| 195.98 | 37.0 | V | 1.0 | 180 | -36.15 |
| 209.98 | 41.2 | V | 1.0 | 307 | -31.95 |
| 251.98 | 37.7 | V | 1.0 | 0 | -35.45 |
| 377.97 | 37.8 | V | 1.0 | 0 | -35.35 |
| 419.98 | 45.4 | V | 1.3 | 0 | -27.75 |
| 461.98 | 45.4 | V | 1.1 | 0 | -27.75 |
| 503.97 | 44.0 | V | 1.1 | 0 | -29.15 |
| 545.97 | 42.2 | V | 1.0 | 0 | -30.95 |
| 587.98 | 41.5 | V | 1.0 | 0 | -31.65 |
| 622.97 | 34.2 | V | 1.0 | 0 | -38.95 |
| 629.98 | 45.8 | V | 1.0 | 322 | -27.35 |
| 671.98 | 43.5 | V | 1.0 | 0 | -29.65 |
| 678.98 | 37.9 | V | 1.0 | 0 | -35.25 |
| 713.97 | 38.1 | V | 1.0 | 0 | -35.05 |
| 762.98 | 35.3 | V | 1.0 | 0 | -37.85 |
| 881.98 | 35.3 | V | 1.0 | 0 | -37.85 |
| 923.97 | 38.6 | V | 1.0 | 0 | -34.55 |
| 1049.98 | 40.6 | V | 1.0 | 0 | -32.55 |
| 1091.98 | 38.9 | V | 1.0 | 0 | -34.25 |
| 5114.05 | 50.4 | V | 1.0 | 0 | -22.75 |
| 7670.94 | 53.6 | V | 1.0 | 270 | -19.55 |
| 10227.90 | 54.7 | V | 1.0 | 270 | -18.45 |

No other significant emissions detected to 26GHz.

Calculations:

Generator Substitution
At 10.2279 GHz
Generator Level = -25 dBm
Equivalent level = GenLevel + cable loss + antenna gain
+ 2.15 (dBi conversion)
Equivalent Level = -25 - 2.3 + 11 - 2.15 = -18.45 dBm

Exhibit 6

Test Report

Name of Test: Frequency stability

Rule Part Number: 2.1055, 21.101(a), 74.961(a)

Stability Requirements: 0.001% or 10ppm

Test Procedure: The local oscillator signal that drives the transmit modulator was lightly coupled onto an RF probe and applied to a spectrum analyzer. The frequency of the RF VCO was monitored and recorded for changes due to temperature and input voltage. See technical description in Exhibit 12 for further information.

Test Conditions: Standard Test Conditions

Test Equipment: CPE

| | |
|---------------------|------------------------------------------------------------------------------------------------|
| DVM | Fluke 87 III Calibration not required |
| Spectrum Analyzer | Rohde&Schwarz Model: FSEA S/N: 832247/015 Cal Date: 05-19-2000 Cal Due: 05-19-2001 |
| Temperature Chamber | Test Equity 1000 Series Calibration not required |
| Temperature Sensor | Fluke 89 IV True RMS Multimeter K-Type thermocouple Calibration not required |
| Computer | Dell Latitude LM Model: TS30GI FCC ID: IIRTS30GH S/N: 6497346BYK7274A |
| Power Supply | GlobTek, Inc. Model: GT-21097-4018 S/N: 00BD000420 |
| Variac | Lafayette Radio Electronics Corp. Model: TR-115 |

Exhibit 6

Test Report

Name of Test: Frequency stability

Test Equipment: Base Station

| | |
|----------------|---------------------------------------------------------------------------|
| Base Station | NextNet Wireless Model: 900-0100-1000 FCC ID: Pending |
| Power Supply | Cherokee International Model: CRP500L1H-1A Calibration not required |
| Attenuator | Inmet Corporation Model: 12B25W-30dB Calibration not required |
| Attenuator | Inmet Corporation Model: 12B25W-20dB Calibration not required |
| Attenuator (3) | Pasternak Model: PE7016-20 / 20 dB Calibration not required |
| Computer | Dell Dimension L550r Model: MCM S/N: 2ATPY |

Exhibit 6

Test Report

Name of Test: Frequency stability

Test Set-Up:

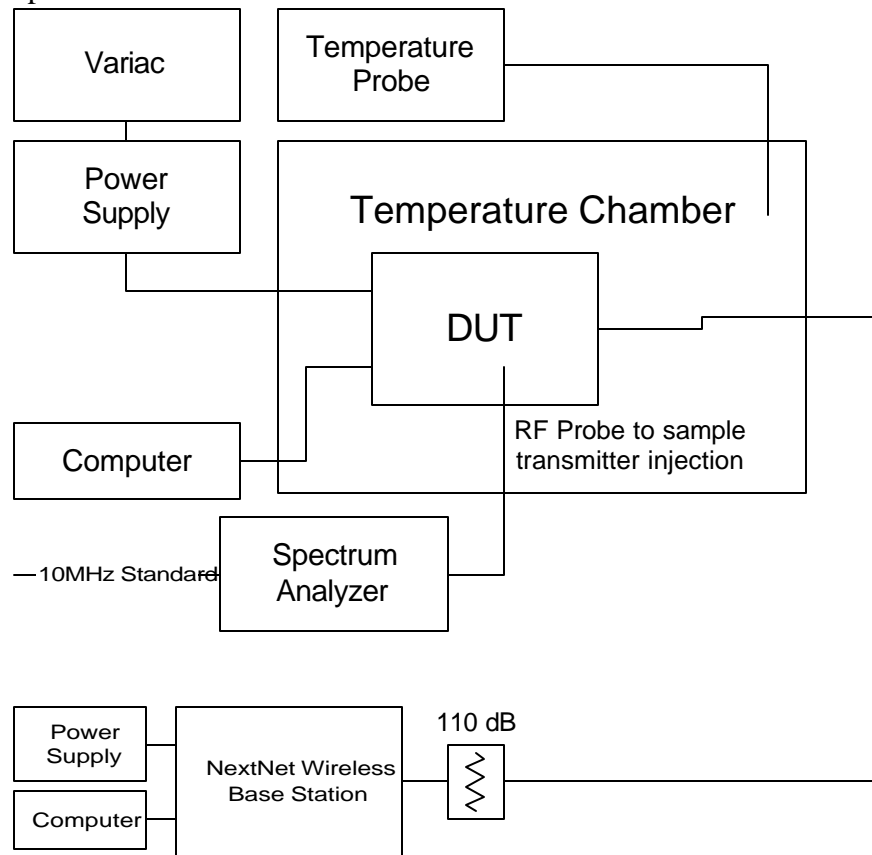


Exhibit 6

Test Report

Name of Test: Frequency Stability

Test Conditions: Frequency = 2557 MHz
Supply Voltage = 120 V_{dac} / 60 Hz

2.1055(a) The frequency stability shall be measured with variation of ambient temperature as follows:

(1) From -30° to +50° centigrade for all equipment except that specified in paragraphs (a) (2) and (3) of this section.

2.1055(b) Frequency measurements shall be made at the extremes of the specified temperature range and at intervals of not more than 10° centigrade through the range.

Test Results: Temperature Variation

| Temperature (°C) | Frequency (Hz) | Frequency Error (Hz) | Frequency Error (%) | Frequency Error (ppm) |
|---------------------|-------------------|----------------------------|---------------------------|-----------------------------|
| -30 | 2556998945 | -1055 | -0.000041 | -0.413 |
| -20 | 2556998831 | -1169 | -0.000046 | -0.457 |
| -10 | 2556998732 | -1268 | -0.000050 | -0.496 |
| 0 | 2556998655 | -1345 | -0.000053 | -0.526 |
| 10 | 2556998615 | -1385 | -0.000054 | -0.542 |
| 20 | 2556998607 | -1393 | -0.000054 | -0.545 |
| 25 | 2556998600 | -1400 | -0.000055 | -0.548 |
| 30 | 2556998585 | -1415 | -0.000055 | -0.553 |
| 40 | 2556998582 | -1418 | -0.000055 | -0.555 |
| 50 | 2556998585 | -1415 | -0.000055 | -0.553 |

Exhibit 6

Test Report

Name of Test: Frequency stability

Test Conditions: Frequency = 2557 MHz
Temperature = 25°C

(d) The frequency stability shall be measured with variation of primary supply voltage as follows:

(1) Vary primary supply voltage from 85 to 115 percent of the nominal value for other than hand carried battery equipment.

Test Results: Supply Voltage Variation

Source Input

Voltage Specification: 120 Vac / 60 Hz

| Source Voltage (VDC) | Frequency (Hz) | Frequency Error (Hz) | Frequency Error (%) | Frequency Error (ppm) |
|----------------------------|-------------------|----------------------------|---------------------------|-----------------------------|
| 102.0 | 2556998579 | -1421 | -0.000056 | -0.556 |
| 106.5 | 2556998579 | -1421 | -0.000056 | -0.556 |
| 111.0 | 2556998579 | -1421 | -0.000056 | -0.556 |
| 115.5 | 2556998579 | -1421 | -0.000056 | -0.556 |
| 120.0 | 2556998573 | -1427 | -0.000056 | -0.558 |
| 124.5 | 2556998569 | -1431 | -0.000056 | -0.560 |
| 129.0 | 2556998573 | -1427 | -0.000056 | -0.558 |
| 133.5 | 2556998565 | -1435 | -0.000056 | -0.561 |
| 138.0 | 2556998569 | -1431 | -0.000056 | -0.560 |