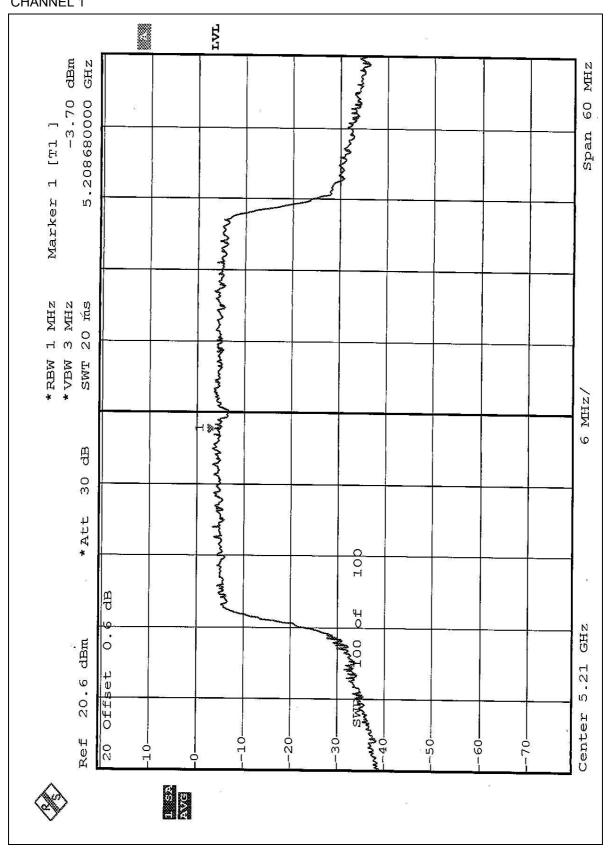




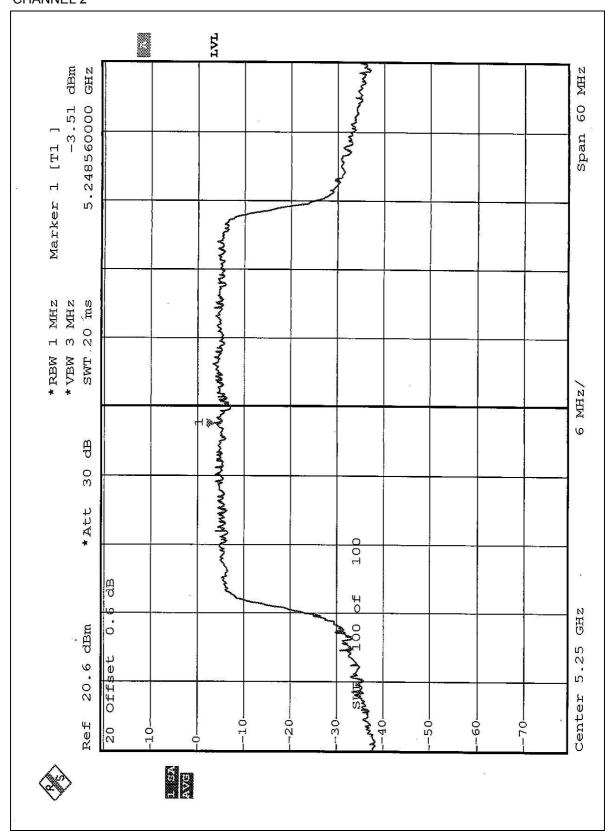
| EUT | Wireless 11a+g mini-PCI | MODEL | WMIA-105AG |
|--------------------------|----------------------------|----------------------|---------------|
| MODE | Turbo | INPUT POWER (SYSTEM) | 120Vac, 60 Hz |
| ENVIRONMENTAL CONDITIONS | 27deg. C, 58%RH, 991hPa | TESTED BY | Ansen Lei |

| CHANNEL | CHANNEL FREQUENCY (MHz) | RF POWER LEVEL IN 1 MHz BW (dBm) | MAXIMUM LIMIT (dBm) | PASS/FAIL |
|---------|-------------------------------|--|---------------------------|-----------|
| 1 | 5210 | -3.70 | 4 | PASS |
| 2 | 5250 | -3.51 | 4 | PASS |
| 3 | 5290 | -3.83 | 11 | PASS |

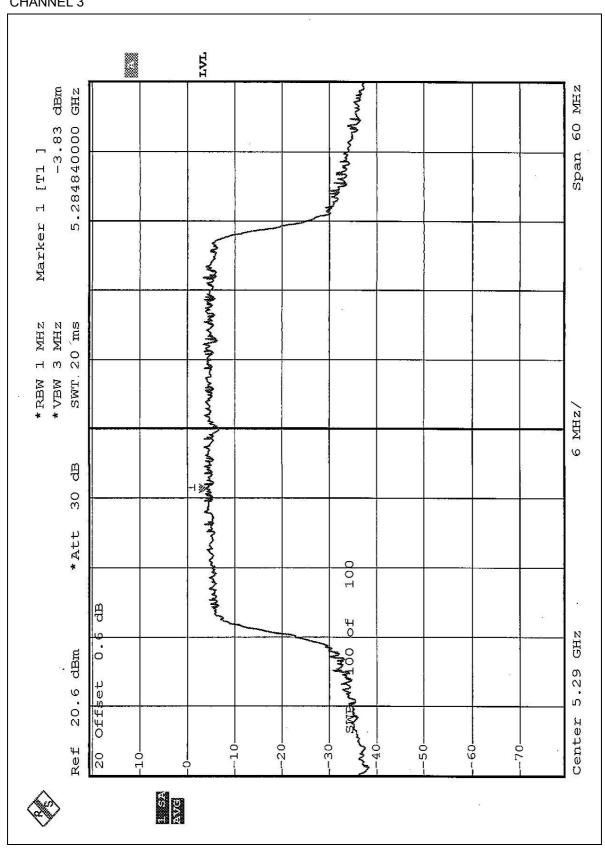














5.6 FREQUENCY STABILITY

5.6.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

The frequency tolerance of the carrier signal shall be maintained within +/- 0.02% of the operating frequency over a temperature variation of –30 degrees to 50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C.

5.6.2 TEST INSTRUMENTS

| Description & Manufacturer | Model No. | Serial No. | Calibrated Until |
|--|-----------|------------|------------------|
| ANRITSU SPECTRUM ANALYZER | MS2667C | M10281 | Aug. 12, 2004 |
| WIT STANDARD TEMPERATURE AND HUMIDITY CHAMBER | TH-4S-C | W901030 | Aug. 12, 2004 |

NOTE: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

5.6.3 TEST PROCEDURE

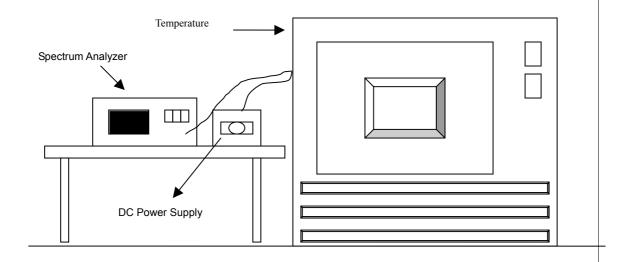
- 1. The EUT was placed inside the environmental test chamber and powered by nominal DC voltage.
- 2. Turn the EUT on and couple its output to a spectrum analyzer.
- 3. Turn the EUT off and set the chamber to the highest temperature specified.
- 4. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 minutes.
- 5. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature.
- 6. The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.



5.6.4 DEVIATION FROM TEST STANDARD

No deviation

5.6.5 TEST SETUP



5.6.6 EUT OPERATING CONDITION

Same as Item 4.1.6



5.6.7 TEST RESULTS

| | Operatin | g frequency | : 5320MHz | | Limi | t : ± 0.02% | |
|-------|-----------------|-------------|-----------|-----------|-----------|-------------|-----------|
| Temp. | Power | 2 mii | nute | 5 mi | nute | 10 m | inute |
| (°C) | supply (VDC) | (MHz) | (%) | (MHz) | (%) | (MHz) | (%) |
| | 102 | 5320.0292 | 0.0005489 | 5320.0304 | 0.0005714 | 5320.0324 | 0.0006090 |
| 50 | 120V | 5320.0292 | 0.0005489 | 5320.0304 | 0.0005714 | 5320.0324 | 0.0006090 |
| | 138 | 5320.0292 | 0.0005489 | 5320.0304 | 0.0005714 | 5320.0324 | 0.0006090 |
| | 102 | 5320.0280 | 0.0005263 | 5320.0320 | 0.0006015 | 5320.0400 | 0.0007519 |
| 40 | 120V | 5320.0280 | 0.0005263 | 5320.0320 | 0.0006015 | 5320.0400 | 0.0007519 |
| | 138 | 5320.0280 | 0.0005263 | 5320.0320 | 0.0006015 | 5320.0400 | 0.0007519 |
| | 102 | 5320.0330 | 0.0006203 | 5320.0380 | 0.0007143 | 5320.0410 | 0.0007707 |
| 30 | 120V | 5320.0320 | 0.0006015 | 5320.0380 | 0.0007143 | 5320.0400 | 0.0007519 |
| | 138 | 5320.0330 | 0.0006203 | 5320.0380 | 0.0007143 | 5320.0410 | 0.0007707 |
| | 102 | 5320.0340 | 0.0006391 | 5320.0390 | 0.0007331 | 5320.0480 | 0.0009023 |
| 20 | 120V | 5320.0340 | 0.0006391 | 5320.0390 | 0.0007331 | 5320.0480 | 0.0009023 |
| | 138 | 5320.0340 | 0.0006391 | 5320.0400 | 0.0007519 | 5320.0480 | 0.0009023 |
| | 102 | 5320.0468 | 0.0008797 | 5320.0488 | 0.0009173 | 5320.0492 | 0.0009248 |
| 10 | 120V | 5320.0468 | 0.0008797 | 5320.0488 | 0.0009173 | 5320.0492 | 0.0009248 |
| | 138 | 5320.0468 | 0.0008797 | 5320.0488 | 0.0009173 | 5320.0492 | 0.0009248 |
| | 102 | 5320.0552 | 0.0010376 | 5320.0576 | 0.0010827 | 5320.0592 | 0.0011128 |
| 0 | 120V | 5320.0552 | 0.0010376 | 5320.0576 | 0.0010827 | 5320.0592 | 0.0011128 |
| | 138 | 5320.0552 | 0.0010376 | 5320.0576 | 0.0010827 | 5320.0592 | 0.0011128 |
| | 102 | 5320.0632 | 0.0011880 | 5320.0644 | 0.0012105 | 5320.0660 | 0.0012406 |
| -10 | 120V | 5320.0632 | 0.0011880 | 5320.0644 | 0.0012105 | 5320.0660 | 0.0012406 |
| | 138 | 5320.0632 | 0.0011880 | 5320.0644 | 0.0012105 | 5320.0660 | 0.0012406 |
| | 102 | 5320.0648 | 0.0012180 | 5320.0652 | 0.0012256 | 5320.0668 | 0.0012556 |
| -20 | 120V | 5320.0648 | 0.0012180 | 5320.0652 | 0.0012256 | 5320.0668 | 0.0012556 |
| | 138 | 5320.0648 | 0.0012180 | 5320.0652 | 0.0012256 | 5320.0668 | 0.0012556 |
| | 102 | 5320.0544 | 0.0010226 | 5320.0552 | 0.0010376 | 5320.0562 | 0.0010564 |
| -30 | 120V | 5320.0544 | 0.0010226 | 5320.0552 | 0.0010376 | 5320.0562 | 0.0010564 |
| | 138 | 5320.0544 | 0.0010226 | 5320.0552 | 0.0010376 | 5320.0562 | 0.0010564 |



5.7 BAND EDGES MEASUREMENT

5.7.1 TEST INSTRUMENTS

| Description & Manufacturer | Model No. | Serial No. | Calibrated Until |
|----------------------------|-----------|------------|------------------|
| SPECTRUM ANALYZER | FSEK30 | 100049 | Aug. 12, 2004 |

NOTE: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

5.7.2 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer via a low lose cable. Set both RBW and VBW of spectrum analyzer to 1MHz with suitable frequency span including 100 MHz bandwidth from band edge. The band edges was measured and recorded.

5.7.3 EUT OPERATING CONDITION

The software provided by client to enable the EUT under transmission condition continuously at specific channel frequencies individually.



5.7.4 TEST RESULTS (MODE 1)

For signals in the restricted bands above and below the 5.15 to 5.35GHz allocated band a measurement was made of the amplitude of the spurious emissions with respect to the intentional signals. The relative amplitude, in dBc, was applied to the average and peak filed strength of the intentional signal made on the OATS to calculate the field strength of the unintentional signals.

The spectrum plots (Peak RBW=VBW=1MHz; Average RBW=1MHz, VBW=300Hz) are attached on the following pages.

Normal Mode: Channel 1 (5180 MHz)

The band edge emission plot on the pages $247 \sim 248$ shows 43.44dBc (Peak) / 50.90dBc (Average) between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 1 (normal mode) is 93.52dBuV/m, so the maximum field strength in restrict band is 93.52-50.90=42.62dBuV/m which is under 54dBuV/m limit.

Normal Mode: Channel 8 (5320 MHz)

The band edge emission plot on the pages $249 \sim 250$ shows 43.69dBc (Peak) / 51.69dBc (Average) between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 8 (normal mode) is 93.39dBuV/m, so the maximum field strength in restrict band is 93.39-51.69=41.70dBuV/m which is under 54dBuV/m limit.

Turbo Mode: Channel 1 (5210 MHz)

The band edge emission plot on the pages 251 ~252 shows 39.95dBc (Peak) / 46.74 dBc (Average) between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 1 (turbo mode) is 86.48dBuV/m, so the maximum field strength in restrict band is 86.48-46.74=39.74dBuV/m which is under 54dBuV/m limit.

Turbo Mode: Channel 3 (5290 MHz)

The band edge emission plot on the pages 253 ~254 shows 40.74dBc (Peak) / 48.91dBc (Average) between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 3 (turbo mode) is 85.72dBuV/m, so the maximum field strength in restrict band is 85.72-48.91=36.81dBuV/m which is under 54dBuV/m limit.



5.7.5 TEST RESULTS (MODE 2)

For signals in the restricted bands above and below the 5.15 to 5.35GHz allocated band a measurement was made of the amplitude of the spurious emissions with respect to the intentional signals. The relative amplitude, in dBc, was applied to the average and peak filed strength of the intentional signal made on the OATS to calculate the field strength of the unintentional signals.

The spectrum plots (Peak RBW=VBW=1MHz; Average RBW=1MHz, VBW=300Hz) are attached on the following pages.

Normal Mode: Channel 1 (5180 MHz)

The band edge emission plot on the pages $247 \sim 248$ shows 43.44dBc (Peak) / 50.90dBc (Average) between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 1 (normal mode) is 93.88dBuV/m, so the maximum field strength in restrict band is 93.88-50.90=42.98dBuV/m which is under 54dBuV/m limit.

Normal Mode: Channel 8 (5320 MHz)

The band edge emission plot on the pages 249 ~ 250 shows 43.69dBc (Peak) / 51.69dBc (Average) between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 8 (normal mode) is 92.76dBuV/m, so the maximum field strength in restrict band is 92.76-51.69=41.07dBuV/m which is under 54dBuV/m limit.

Turbo Mode: Channel 1 (5210 MHz)

The band edge emission plot on the pages 251 ~252 shows 39.95dBc (Peak) / 46.74 dBc (Average) between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 1 (turbo mode) is 93.35dBuV/m, so the maximum field strength in restrict band is 93.35-46.74=46.61dBuV/m which is under 54dBuV/m limit.

Turbo Mode: Channel 3 (5290 MHz)

The band edge emission plot on the pages 253 ~254 shows 40.74dBc (Peak) / 48.91dBc (Average) between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 3 (turbo mode) is 91.27dBuV/m, so the maximum field strength in restrict band is 91.27-48.91=42.36dBuV/m which is under 54dBuV/m limit.



5.7.6 TEST RESULTS (MODE 3)

For signals in the restricted bands above and below the 5.15 to 5.35GHz allocated band a measurement was made of the amplitude of the spurious emissions with respect to the intentional signals. The relative amplitude, in dBc, was applied to the average and peak filed strength of the intentional signal made on the OATS to calculate the field strength of the unintentional signals.

The spectrum plots (Peak RBW=VBW=1MHz; Average RBW=1MHz, VBW=300Hz) are attached on the following pages.

Normal Mode: Channel 1 (5180 MHz)

The band edge emission plot on the pages $247 \sim 248$ shows 43.44dBc (Peak) / 50.90dBc (Average) between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 1 (normal mode) is 95.84dBuV/m, so the maximum field strength in restrict band is 95.84-50.90=44.94dBuV/m which is under 54dBuV/m limit.

Normal Mode: Channel 8 (5320 MHz)

The band edge emission plot on the pages $249 \sim 250$ shows 43.69dBc (Peak) / 51.69dBc (Average) between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 8 (normal mode) is 95.95dBuV/m, so the maximum field strength in restrict band is 95.95-51.69=44.26dBuV/m which is under 54dBuV/m limit.

Turbo Mode: Channel 1 (5210 MHz)

The band edge emission plot on the pages 251 ~252 shows 39.95dBc (Peak) / 46.74 dBc (Average) between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 1 (turbo mode) is 93.21dBuV/m, so the maximum field strength in restrict band is 93.21-46.74=46.47dBuV/m which is under 54dBuV/m limit.

Turbo Mode: Channel 3 (5290 MHz)

The band edge emission plot on the pages 253 ~254 shows 40.74dBc (Peak) / 48.91dBc (Average) between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 3 (turbo mode) is 95.01dBuV/m, so the maximum field strength in restrict band is 95.01-48.91=46.10dBuV/m which is under 54dBuV/m limit.



5.7.7 TEST RESULTS (MODE 4)

For signals in the restricted bands above and below the 5.15 to 5.35GHz allocated band a measurement was made of the amplitude of the spurious emissions with respect to the intentional signals. The relative amplitude, in dBc, was applied to the average and peak filed strength of the intentional signal made on the OATS to calculate the field strength of the unintentional signals.

The spectrum plots (Peak RBW=VBW=1MHz; Average RBW=1MHz, VBW=300Hz) are attached on the following pages.

Normal Mode: Channel 1 (5180 MHz)

The band edge emission plot on the pages $247 \sim 248$ shows 43.44dBc (Peak) / 50.90dBc (Average) between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 1 (normal mode) is 100.45dBuV/m, so the maximum field strength in restrict band is 100.45-50.90=49.55dBuV/m which is under 54dBuV/m limit.

Normal Mode: Channel 8 (5320 MHz)

The band edge emission plot on the pages 249 ~ 250 shows 43.69dBc (Peak) / 51.69dBc (Average) between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 8 (normal mode) is 101.23dBuV/m, so the maximum field strength in restrict band is 101.23-51.69=49.54dBuV/m which is under 54dBuV/m limit.

Turbo Mode: Channel 1 (5210 MHz)

The band edge emission plot on the pages 251 ~252 shows 39.95dBc (Peak) / 46.74 dBc (Average) between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 1 (turbo mode) is 97.37dBuV/m, so the maximum field strength in restrict band is 97.37-46.74=50.63dBuV/m which is under 54dBuV/m limit.

Turbo Mode: Channel 3 (5290 MHz)

The band edge emission plot on the pages 253 ~254 shows 40.74dBc (Peak) / 48.91dBc (Average) between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 3 (turbo mode) is 97.60dBuV/m, so the maximum field strength in restrict band is 97.60-48.91=48.69dBuV/m which is under 54dBuV/m limit.



5.7.8 TEST RESULTS (MODE 6)

For signals in the restricted bands above and below the 5.15 to 5.35GHz allocated band a measurement was made of the amplitude of the spurious emissions with respect to the intentional signals. The relative amplitude, in dBc, was applied to the average and peak filed strength of the intentional signal made on the OATS to calculate the field strength of the unintentional signals.

The spectrum plots (Peak RBW=VBW=1MHz; Average RBW=1MHz, VBW=300Hz) are attached on the following pages.

Normal Mode: Channel 1 (5180 MHz)

The band edge emission plot on the pages $247 \sim 248$ shows 43.44dBc (Peak) / 50.90dBc (Average) between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 1 (normal mode) is 90.50dBuV/m, so the maximum field strength in restrict band is 90.50-50.90=39.60dBuV/m which is under 54dBuV/m limit.

Normal Mode: Channel 8 (5320 MHz)

The band edge emission plot on the pages $249 \sim 250$ shows 43.69dBc (Peak) / 51.69dBc (Average) between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 8 (normal mode) is 90.25dBuV/m, so the maximum field strength in restrict band is 90.25-51.69=38.56dBuV/m which is under 54dBuV/m limit.

Turbo Mode: Channel 1 (5210 MHz)

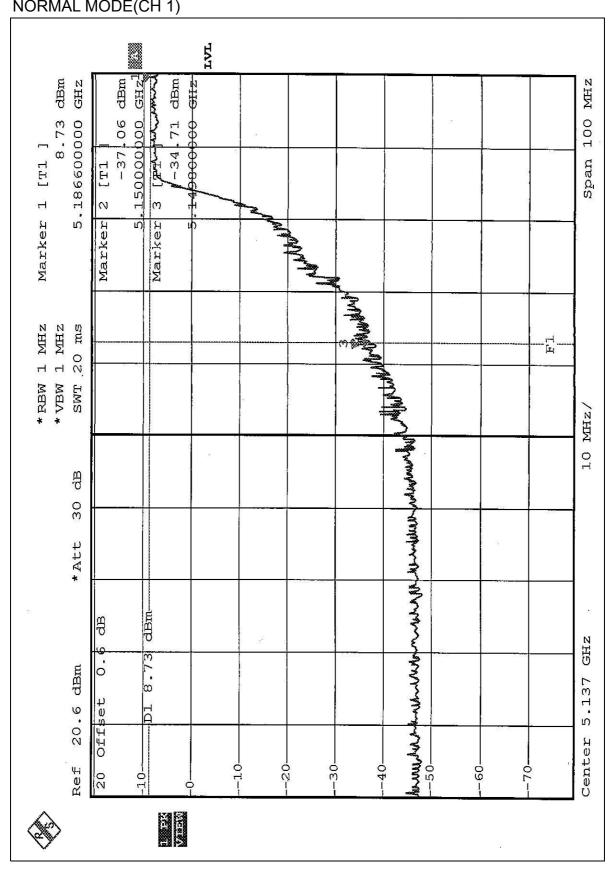
The band edge emission plot on the pages 251 ~252 shows 39.95dBc (Peak) / 46.74 dBc (Average) between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 1 (turbo mode) is 89.57dBuV/m, so the maximum field strength in restrict band is 89.57-46.74=42.83dBuV/m which is under 54dBuV/m limit.

Turbo Mode: Channel 3 (5290 MHz)

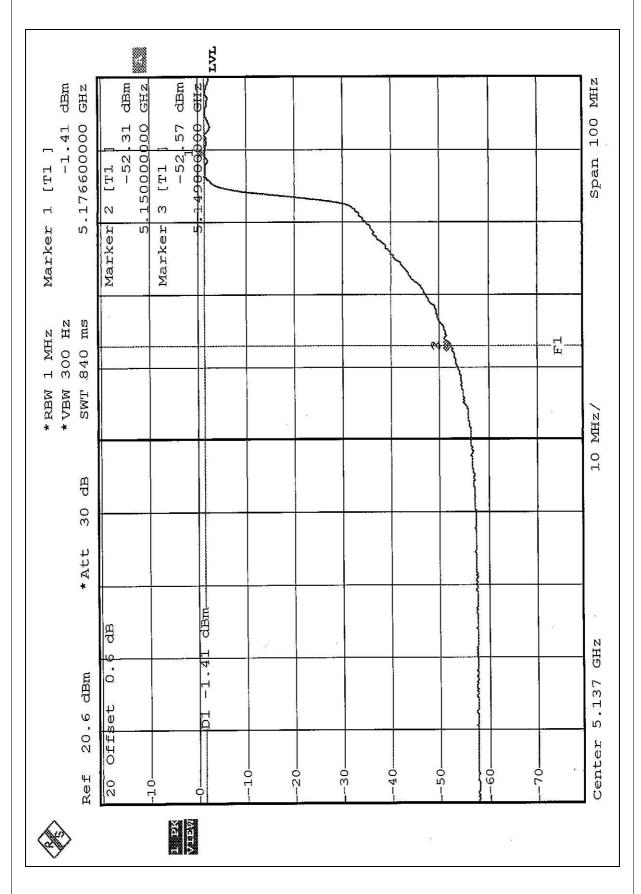
The band edge emission plot on the pages 253 ~254 shows 40.74dBc (Peak) / 48.91dBc (Average) between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 3 (turbo mode) is 89.47dBuV/m, so the maximum field strength in restrict band is 89.47-48.91=40.56dBuV/m which is under 54dBuV/m limit.



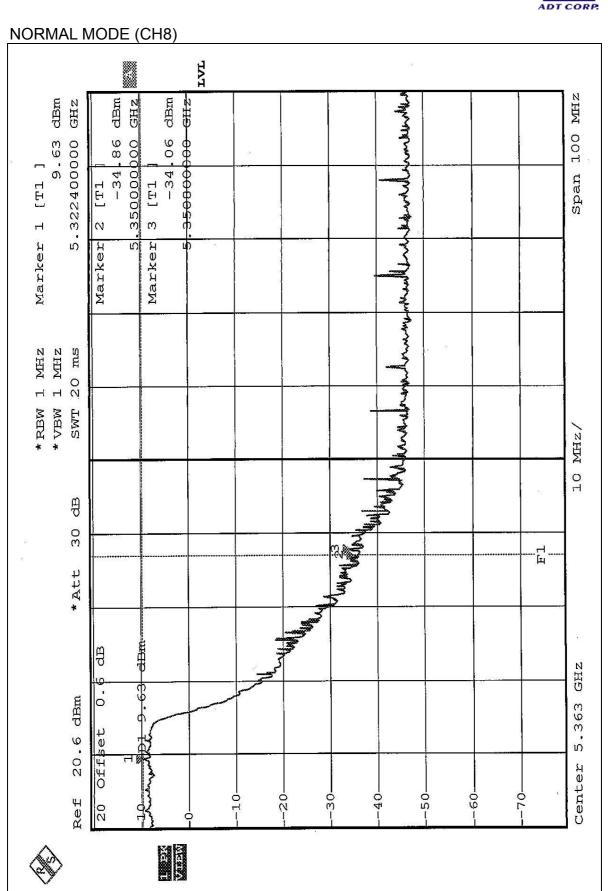
NORMAL MODE(CH 1)



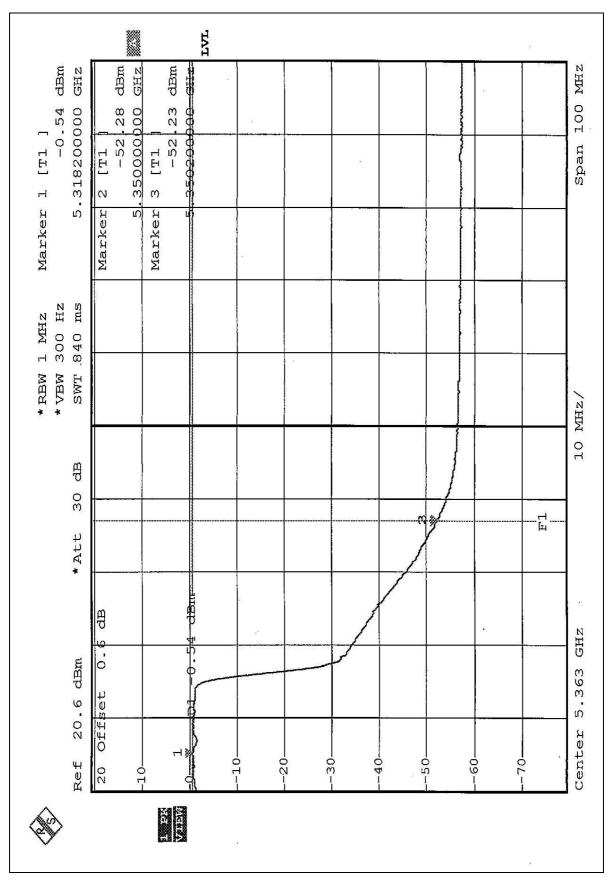




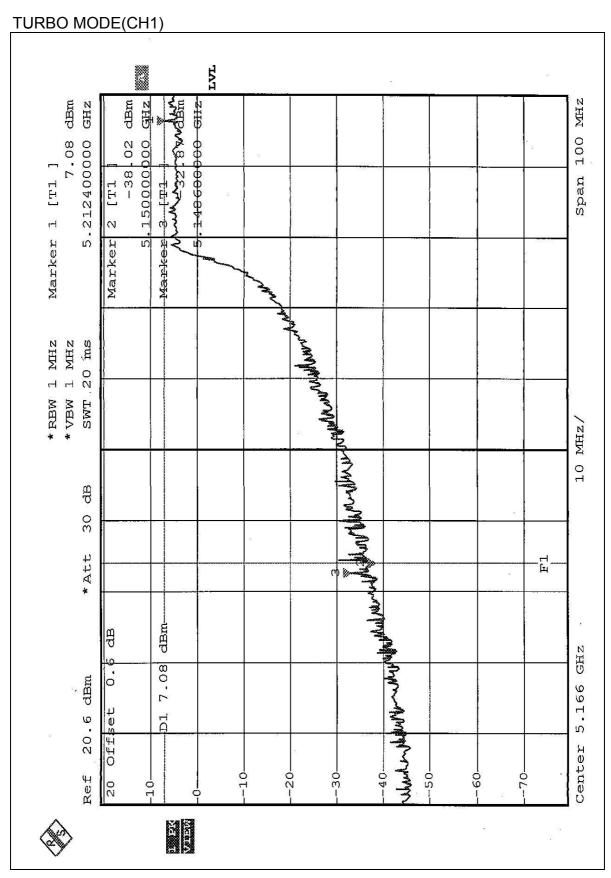




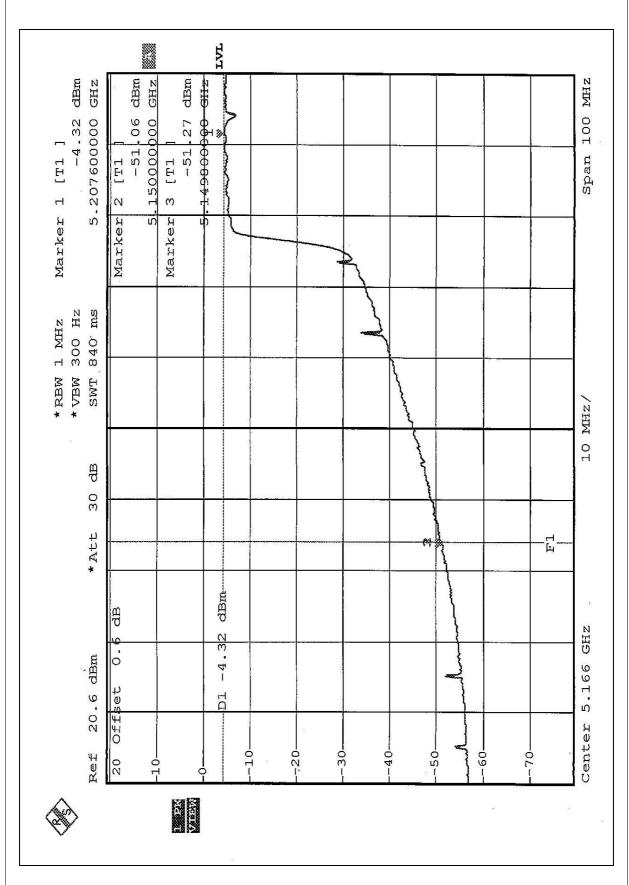






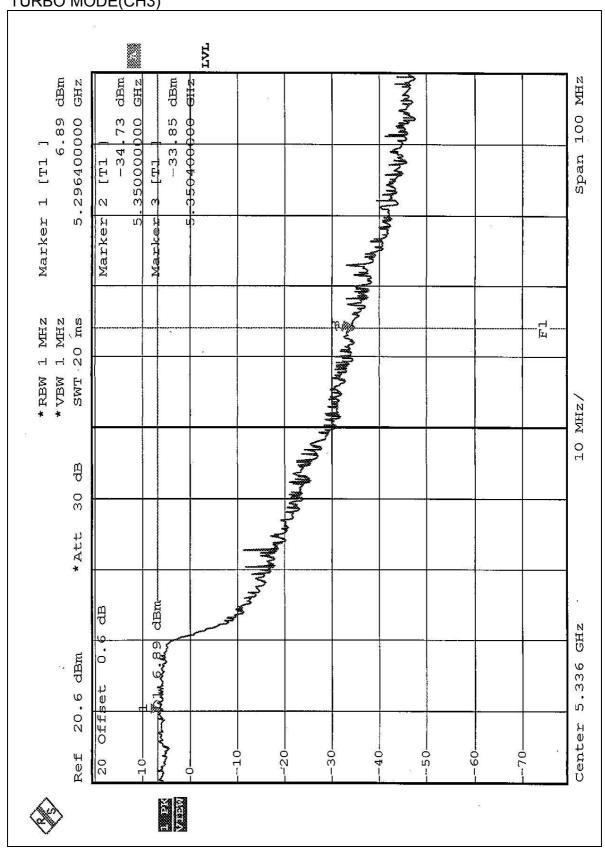




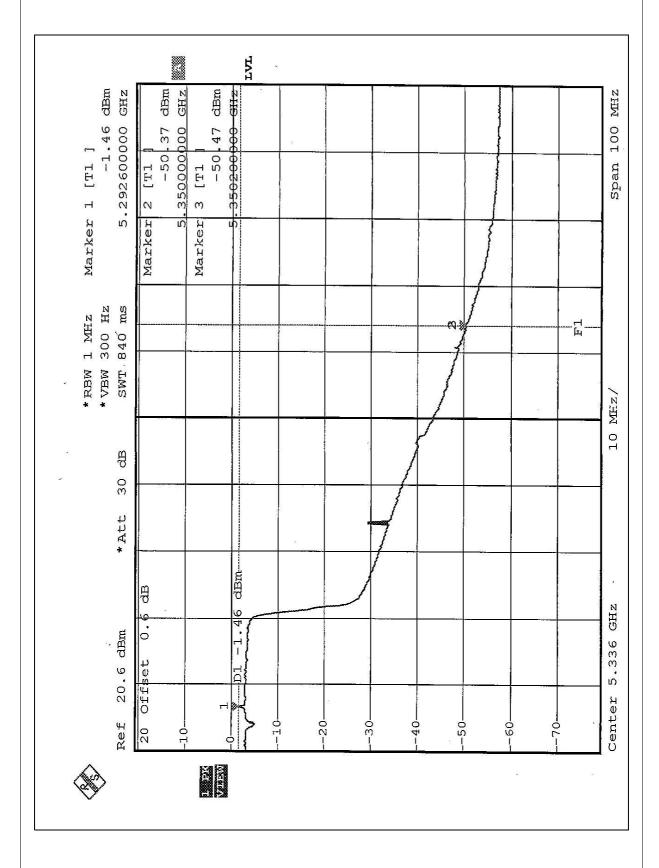














5.8 ANTENNA REQUIREMENT

5.8.1 STANDARD APPLICABLE

For intentional device, according to FCC 47 CFR Section 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.

And according to FCC 47 CFR Section 15.407(a), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

5.8.2 ANTENNA CONNECTED CONSTRUCTION

The antenna used in this product is Patch antenna, PCB antenna and Dipole antenna with UFL antenna connector. The maximum Gain of the antenna is 3dBi.



For Frequency 5.725~5.850GHZ

5.9 6DB BANDWIDTH MEASUREMENT

5.9.1 LIMITS OF 6dB BANDWIDTH MEASUREMENT

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

5.9.2 TEST INSTRUMENTS

| Description & Manufacturer | Model No. | Serial No. | Calibrated Until |
|----------------------------|-----------|------------|------------------|
| R&S SPECTRUM ANALYZER | FSEK30 | 100049 | Aug. 12, 2004 |

NOTES: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.



5.9.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100kHz RBW and 100kHz VBW. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

5.9.4 DEVIATION FROM TEST STANDARD

No deviation

5.9.5 TEST SETUP



5.9.6 EUT OPERATING CONDITIONS

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

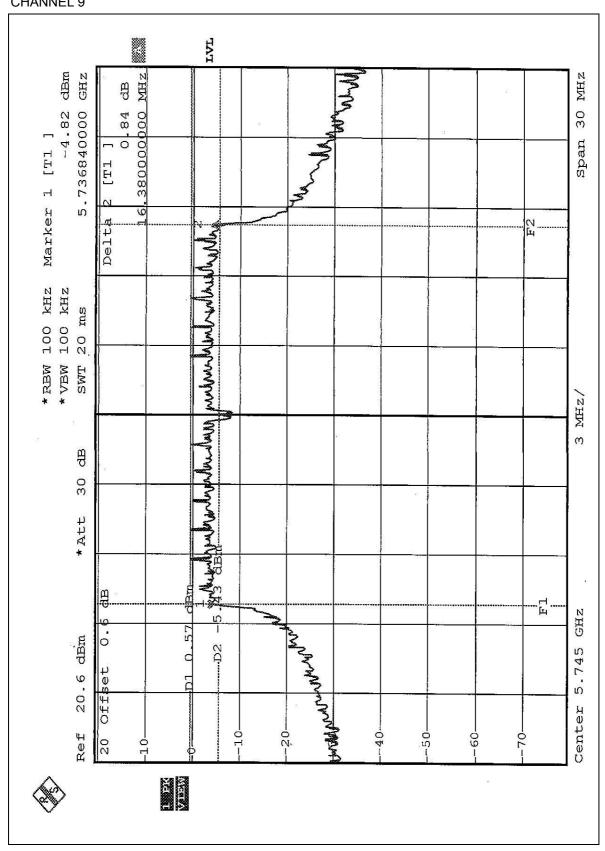


5.9.7 TEST RESULTS

| EUT | Wireless 11a+g mini-PCI | MODEL | WMIA-105AG |
|--------------------------|-----------------------------|----------------------|---------------|
| MODE | Normal | INPUT POWER (SYSTEM) | 120Vac, 60 Hz |
| ENVIRONMENTAL CONDITIONS | 27deg. C, 58%RH, 991 hPa | TESTED BY | Ansen Lei |

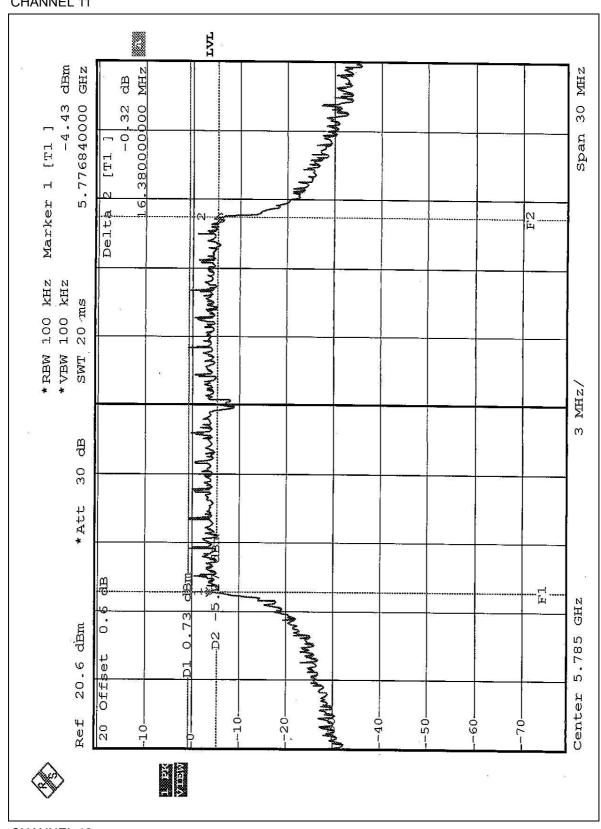
| CHANNEL | CHANNEL FREQUENCY (MHz) | 6dB BANDWIDTH (MHz) | MINIMUM LIMIT (MHz) | PASS/FAIL |
|---------|-------------------------------|------------------------|------------------------|-----------|
| 9 | 5745 | 16.38 | 0.5 | PASS |
| 11 | 5785 | 16.38 | 0.5 | PASS |
| 13 | 5825 | 16.38 | 0.5 | PASS |



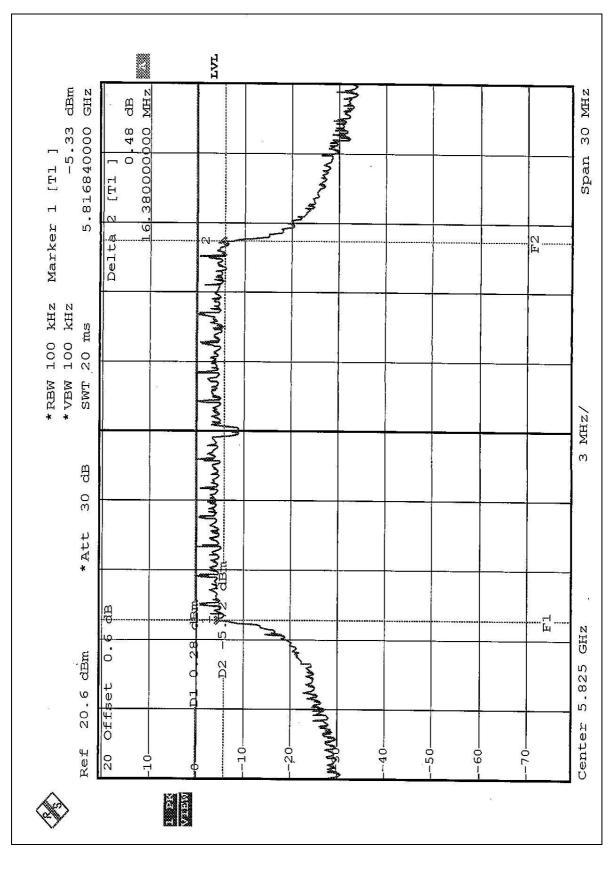










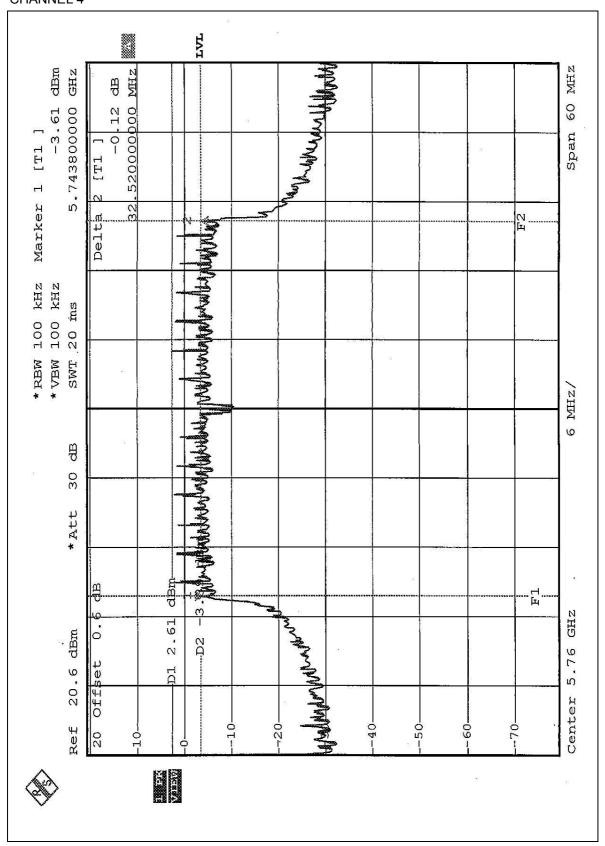




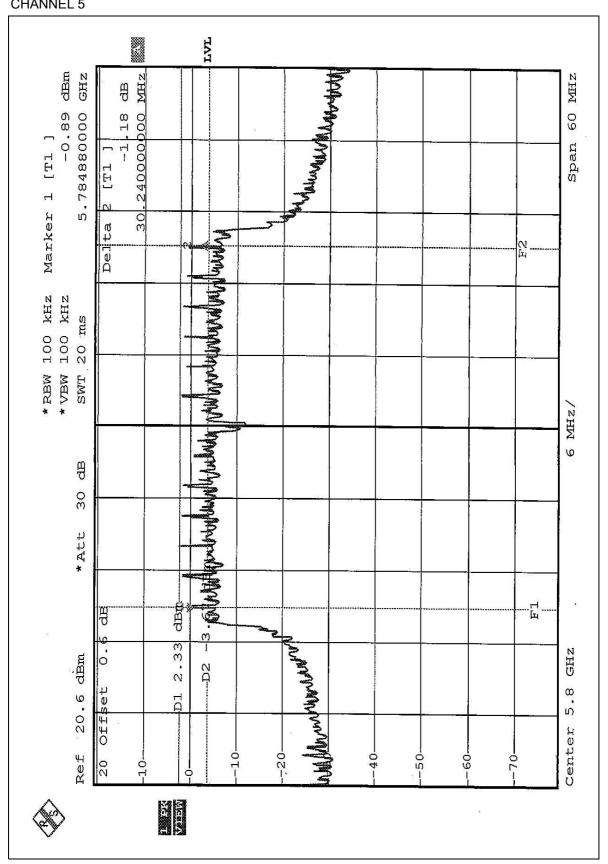
| EUT | Wireless 11a+g mini-PCI | MODEL | WMIA-105AG |
|--------------------------|-----------------------------|----------------------|---------------|
| MODE | Turbo | INPUT POWER (SYSTEM) | 120Vac, 60 Hz |
| ENVIRONMENTAL CONDITIONS | 27deg. C, 58%RH, 991 hPa | TESTED BY | Ansen Lei |

| CHANNEL | CHANNEL FREQUENCY (MHz) | 6dB BANDWIDTH (MHz) | MINIMUM LIMIT (MHz) | PASS/FAIL |
|---------|-------------------------------|------------------------|------------------------|-----------|
| 4 | 5760 | 32.52 | 0.5 | PASS |
| 5 | 5800 | 30.24 | 0.5 | PASS |











5.10 MAXIMUM PEAK OUTPUT POWER

5.10.1 LIMITS OF MAXIMUM PEAK OUTPUT POWER MEASUREMENT

The Maximum Peak Output Power Measurement is 30dBm.

5.10.2 INSTRUMENTS

| Description & Manufacturer | Model No. | Serial No. | Calibrated Until |
|----------------------------|-----------|------------|------------------|
| R&S SPECTRUM ANALYZER | FSEK30 | 100049 | Aug. 12, 2004 |
| R&S SIGNAL GENERATOR | SMP04 | 100011 | May 28, 2004 |
| TEKTRONIX OSCILLOSCOPE | TDS 220 | B048470 | Mar. 05, 2004 |
| NARDA DETECTOR | 4503A | FSCM99899 | NA |

NOTE:

The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA..



5.10.3 TEST PROCEDURES

- 1. A detector was used on the output port of the EUT. An oscilloscope was used to read the response of the detector.
- 2. Replaced the EUT by the signal generator . The center frequency of the S.G was adjusted to the center frequency of the measured channel.
- 3. Adjusted the power to have the same reading on oscilloscope. Record the power level.

5.10.4 DEVIATION FROM TEST STANDARD

No deviation

5.10.5 TEST SETUP



5.10.6 EUT OPERATING CONDITIONS

Same as Item 5.9.6



5.10.7 TEST RESULTS

| EUT | Wireless 11a+g mini-PCI | MODEL | WMIA-105AG |
|--------------------------|-----------------------------|----------------------|---------------|
| MODE | Normal | INPUT POWER (SYSTEM) | 120Vac, 60 Hz |
| ENVIRONMENTAL CONDITIONS | 27deg. C, 58%RH, 991 hPa | TESTED BY | Ansen Lei |

| CHANNEL | CHANNEL FREQUENCY (MHz) | PEAK POWER OUTPUT (dBm) | PEAK POWER LIMIT (dBm) | PASS/FAIL |
|---------|-------------------------------|-------------------------------|------------------------------|-----------|
| 9 | 5745 | 15.00 | 30 | PASS |
| 11 | 5785 | 15.00 | 30 | PASS |
| 13 | 5825 | 15.00 | 30 | PASS |

| EUT | Wireless 11a+g mini-PCI | MODEL | WMIA-105AG |
|--------------------------|-----------------------------|----------------------|---------------|
| MODE | Turbo | INPUT POWER (SYSTEM) | 120Vac, 60 Hz |
| ENVIRONMENTAL CONDITIONS | 27deg. C, 58%RH, 991 hPa | TESTED BY | Ansen Lei |

| CHANNEL | CHANNEL FREQUENCY (MHz) | PEAK POWER OUTPUT (dBm) | PEAK POWER LIMIT (dBm) | PASS/FAIL |
|---------|-------------------------------|-------------------------------|------------------------------|-----------|
| 4 | 5760 | 15.00 | 30 | PASS |
| 5 | 5800 | 15.00 | 30 | PASS |



5.11 POWER SPECTRAL DENSITY MEASUREMENT

5.11.1 LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT

The Maximum of Power Spectral Density Measurement is 8dBm.

5.11.2 TEST INSTRUMENTS

| Description & Manufacturer | Model No. | Serial No. | Calibrated Until |
|----------------------------|-----------|------------|------------------|
| R&S SPECTRUM ANALYZER | FSEK30 | 100049 | Aug. 12, 2004 |

NOTES: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.



5.11.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer through an attenuator, the bandwidth of the fundamental frequency was measured with the spectrum analyzer using 3 kHz RBW and 30 kHz VBW, set sweep time = span/3 kHz. The power spectral density was measured and recorded.

The sweep time is allowed to be longer than span/3 kHz for a full response of the mixer in the spectrum analyzer.

5.11.4 DEVIATION FROM TEST STANDARD

No deviation

5.11.5 TEST SETUP



5.11.6 EUT OPERATING CONDITION

Same as Item 5.9.6



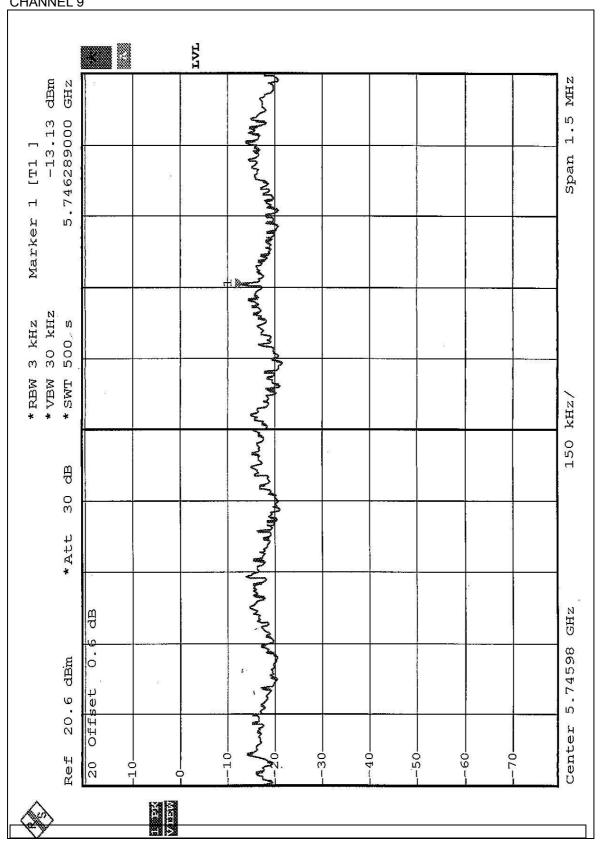
5.11.7 TEST RESULTS

| EUT | Wireless 11a+g mini-PCI | MODEL | WMIA-105AG |
|--------------------------|-----------------------------|----------------------|---------------|
| MODE | Normal | INPUT POWER (SYSTEM) | 120Vac, 60 Hz |
| ENVIRONMENTAL CONDITIONS | 27deg. C, 58%RH, 991 hPa | TESTED BY | Ansen Lei |

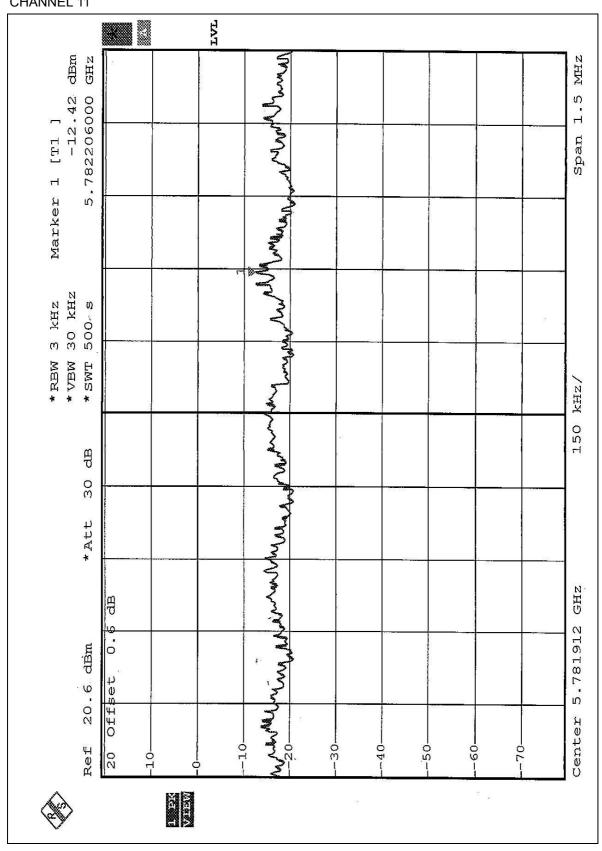
| CHANNEL | CHANNEL FREQUENCY (MHz) | RF POWER LEVEL IN 3 kHz BW (dBm) | MAXIMUM LIMIT (dBm) | PASS/FAIL |
|---------|--------------------------------|--|---------------------------|-----------|
| 9 | 5745 | -13.13 | 8 | PASS |
| 11 | 5785 | -12.42 | 8 | PASS |
| 13 | 5825 | -13.93 | 8 | PASS |



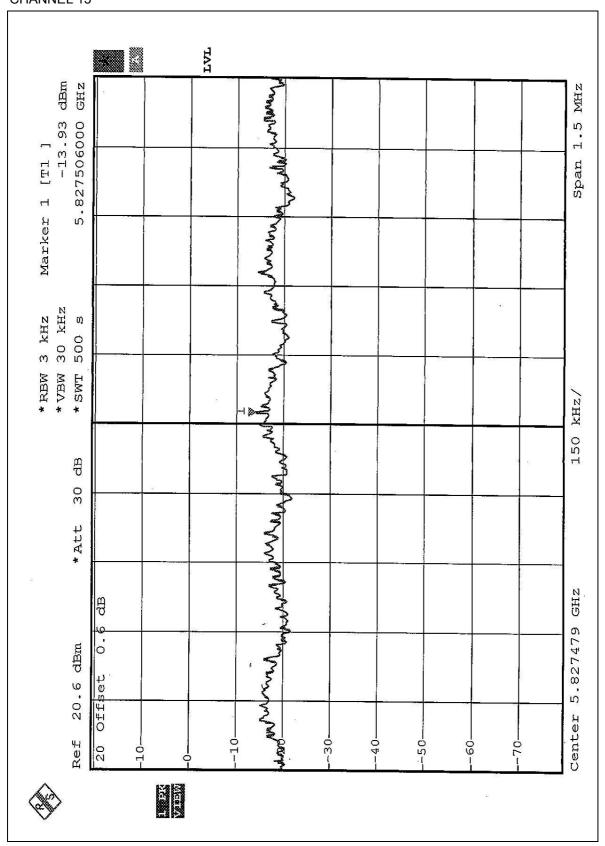














| EUT | Wireless 11a+g mini-PCI | MODEL | WMIA-105AG |
|--------------------------|-----------------------------|----------------------|---------------|
| MODE | Turbo | INPUT POWER (SYSTEM) | 120Vac, 60 Hz |
| ENVIRONMENTAL CONDITIONS | 27deg. C, 58%RH, 991 hPa | TESTED BY | Ansen Lei |

| CHANNEL | CHANNEL FREQUENCY (MHz) | RF POWER LEVEL IN 3 kHz BW (dBm) | MAXIMUM LIMIT (dBm) | PASS/FAIL |
|---------|--------------------------------|--|---------------------------|-----------|
| 4 | 5760 | -14.48 | 8 | PASS |
| 5 | 5800 | -14.88 | 8 | PASS |





