Exhibit N: Peak Output Power

FCC ID: HN2WN-5MP01



Justification

The individuals and/or the organization requesting the test provided the modes, configurations and settings available to evaluate. While scanning the radiated emissions, all of the EUT parameters listed below were investigated. This includes, but may not be limited to, antennas, tuned transmit frequency ranges, operating modes, and data rates.

| Low | |
|------|--|
| Mid | |
| High | |

Operating Modes Investigated: Typical

Data Rates Investigated: Lowest, Middle, and Highest

Output Power Setting(s) Investigated: Maximum

Power Input Settings Investigated:

120 V, 60 Hz

| Software\Firmware Applied During Test | | | | | | |
|---|------------|---------|-------|--|--|--|
| Exercise software | AP Monitor | Version | V5.37 | | | |
| Description | | | | | | |
| A notebook PC controls the radio through a serial port connection on the WA21 access point. Hyper | | | | | | |
| Terminal running in Windows 98 address the AP monitor commands for setting the transmit channel and | | | | | | |
| data rate. | | | | | | |

Equipment Modifications

No EMI suppression devices were added or modified. The EUT was tested as delivered.

EUT and Peripherals

| Description | Manufacturer | Model/Part Number | Serial Number |
|---|--------------|-------------------|---------------|
| EUT – 802.11(a) radio module installed in WA21 Access Point | Intermec | WN-5MP01 | 002-032 |
| Laptop PC | Panasonic | CF-35 | 7KHSA02247 |

Cables

| Cable Type | Shield | Length (m) | Ferrite | Connection 1 | Connection 2 |
|--------------|--------|------------|---------|--------------|--------------|
| Serial cable | Yes | 1.5 | No | Access Point | Laptop |
| AC power | No | 1.9 | No | Access Point | AC mains |
| AC power | No | 1.8 | No | Laptop | AC mains |

PA = Cable is permanently attached to the device. Shielding and/or presence of ferrite may be unknown.

Measurement Equipment

| Description | Manufacturer | Model | Identifier | Last Cal | Interval |
|------------------|-----------------|----------|------------|------------|----------|
| RF Detector | RLC Electronics | CR-133-R | ZZA | 05/10/2002 | 12 mo |
| Multimeter | Tektronix | DMM912 | MMH | 06/20/2002 | 12 mo |
| Signal Generator | Hewlett Packard | 8341B | TGN | 05/31/2002 | 12 mo |
| Power Meter | Hewlett Packard | E4418A | SPA | 06/21/2002 | 24 mo |
| Power Sensor | Hewlett-Packard | 8481H | SPB | 06/21/2002 | 24 mo |

Test Description

Requirement: Per 47 CFR 15.407(a)(1)-(2), the maximum peak output power must not exceed the following limits:

For the 5.15 For the 5.15 to 5.25 GHz band, the peak transmit power over the frequency band of operation shall not exceed the lesser of 50 mW or 4 dBm +10 log B, where B is the 26-dB emission bandwidth in MHz.

For the 5.25 to 5.35 GHz band, the peak transmit power over the frequency band of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26-dB emission bandwidth in MHz.

For both bands, if the antenna gain is greater than 6 dBi, the output must be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Configuration: The peak output power was measured with the EUT set to low, medium, and high transmit frequencies; and low, medium, and high data rates in each operational band. The EUT was transmitting at its maximum output power.

The measurement was made using a direct connection between the RF output of the EUT and a RF detector diode. The DC output of the diode was measured with the DMM. The signal generator, tuned to the transmit frequency, was then substituted for the EUT. The CW output of the signal generator was adjusted until the DC output of the RF detector diode match the level produced when connected to the EUT. To further reduce measurement error, the power meter and sensor were then used to measure the output power level of the signal generator.

De Facto EIRP Limit: The EUT meets the de facto EIRP limit of +23 dBm for the 5.15 to 5.25 GHz band and +30 dBm for the 5.25 to 5.35 GHz band.

Completed by:

J.K.P

| EMC | | | | | | 01/30/01 | | |
|---------------------------|---|---|-----------------------------|-------------------------|-------------------|--------------|--|--|
| EUT: | WN-5MP01 | | | | Work Order: | INMC0024 | | |
| Serial Number: | 002-032 | | | | Date: | 08/15/02 | | |
| Customer: | Intermec Corporation | | | | Temperature: | 24 degrees C | | |
| Attendees: | None | | Tested by: | Greg Kiemel | Humidity: | 40% RH | | |
| Customer Ref. No.: | N/A Power: 120 V, 60 Hz | | | Job Site: | EV06 | | | |
| TEST SPECIFICATION | IS | | | | | | | |
| Specification: | 47 CFR 15.407(a)(1) | Year: Most Current | Method: | ANSI C63.4 | Year: | 1992 | | |
| SAMPLE CALCULATI | ONS | | | | | | | |
| EIRP (peak) = Peak Po | ower Measured w/ Diode Detector | r + Maximum Antenna Gain | | | | | | |
| COMMENTS | | | | | | | | |
| Tested in WA21 Acces | ss Point. The maximum 26 dB er | nission bandwidth (B) is 43 MHz | | | | | | |
| EUT OPERATING MOI | DES | | | | | | | |
| Modulated at lowest, i | nid, and highest data rates, at m | aximum output power | | | | | | |
| DEVIATIONS FROM T | EST STANDARD | | | | | | | |
| None | | | | | | | | |
| REQUIREMENTS | | | | | | | | |
| For the 5.15 - 5.25 GHz | band, the peak transmit power sha | all not exceed the lesser of 50mVV or 4 | aBm + 10 log B, where | B is the 26 dB emission | Dandwidth in MHZ. | | | |
| If the antenna gain is gr | eater than 6 dBi, the output must b | e reduced by the amount in dB that th | e directional gain of the a | antenna exceeds 6 dBi | | | | |
| RESULTS | | | AMPLITUDE | | | | | |
| Pass | | | Peak Output Power = ' | 16.9 dBm (EIRP) | | | | |
| SIGNATURE | | | | | | | | |
| Tested By: | | | | | | | | |
| DESCRIPTION OF TES | ST | | | | | | | |
| | Peak Output Power - 5.15 to 5.25 GHz Band | | | | | | | |

Tx Data Rate: 54 Mbit

| Frequency (MHz) | Peak Output Power (dBm) | Maximum Antenna Gain with Minimum Cable Loss (dBi) | EIRP (Peak) (dBm) | Spec (dBm) |
|--------------------|----------------------------|--|----------------------|---------------|
| 5180.0 | 3.0 | 5 | 8.0 | 23 |
| 5200.0 | 4.1 | 5 | 9.1 | 23 |
| 5220.0 | 4.7 | 5 | 9.7 | 23 |

Tx Data Rate: 24 Mbit

| Frequency (MHz) | Peak Output Power (dBm) | Maximum Antenna Gain with Minimum Cable Loss (dBi) | EIRP (Peak) (dBm) | Spec (dBm) |
|--------------------|----------------------------|--|----------------------|---------------|
| 5180.0 | 8.0 | 5 | 13.0 | 23 |
| 5200.0 | 10.8 | 5 | 15.8 | 23 |
| 5220.0 | 11.3 | 5 | 16.3 | 23 |

Tx Data Rate: 6 Mbit

| Frequency (MHz) | Peak Output Power (dBm) | Maximum Antenna Gain with Minimum Cable Loss (dBi) | EIRP (Peak) (dBm) | Spec (dBm) |
|--------------------|----------------------------|--|----------------------|---------------|
| 5180.0 | 8.3 | 5 | 13.3 | 23 |
| 5200.0 | 11.2 | 5 | 16.2 | 23 |
| 5220.0 | 11.9 | 5 | 16.9 | 23 |

| NORTHWEST EMC | | EMISSIONS | DATA SHEET | | Rev BETA 01/30/01 | | | |
|---|--|--|---|---------------------|----------------------|--|--|--|
| EUT: | WN-5MP01 | | | Work Order: | INMC0024 | | | |
| Serial Number: | 002-032 | | | Date: | 8/15 & 8/26/2002 | | | |
| Customer: | Intermec Corporation | | | Temperature: | 24 degrees C | | | |
| Attendees: | None | | Tested by: Greg Kiemel | Humidity: | 40% RH | | | |
| Customer Ref. No.: | N/A | | Power: 120 V, 60 Hz | Job Site: | EV06 | | | |
| TEST SPECIFICATION | IS | | | | | | | |
| Specification: | 47 CFR 15.407(a)(2) | Year: Most Current | Method: ANSI C63.4 | Year: | 1992 | | | |
| SAMPLE CALCULATIO | ONS | | | | | | | |
| EIRP (peak) = Peak Po | EIRP (peak) = Peak Power Measured w/ Diode Detector + Maximum Antenna Gain | | | | | | | |
| COMMENTS | | | | | | | | |
| Tested in WA21 Acces | ss Point. The maximum 26 dB em | ission bandwidth (B) is 40 MHz | | | | | | |
| EUT OPERATING MOD | DES | | | | | | | |
| Modulated at lowest, r | mid, and highest data rates, at ma | ximum output power | | | | | | |
| DEVIATIONS FROM T | EST STANDARD | | | | | | | |
| None | | | | | | | | |
| REQUIREMENTS | | | | | | | | |
| For the 5.25 - 5.35 GHz | band, the peak transmit power sha | Il not exceed the lesser of 250mW or | 11dBm + 10 log B, where B is the 26 dB emission | n bandwidth in MHz. | | | | |
| If the antenna gain is gr | eater than 6 dBi, the output must be | e reduced by the amount in dB that the | e directional gain of the antenna exceeds 6 dBi | | | | | |
| RESULTS | | | AMPLITUDE | | | | | |
| Pass | | | Peak Output Power = 23.7 dBm (EIRP) | | | | | |
| SIGNATURE | | | | | | | | |
| Tested By: | | | | | | | | |
| DESCRIPTION OF TES | ST | | | | | | | |
| Peak Output Power - 5.25 to 5.35 GHz Band | | | | | | | | |

Tx Data Rate: 54 Mbit

| Frequency (MHz) | Peak Output Power (dBm) | Maximum Antenna Gain with Minimum Cable Loss (dBi) | EIRP (Peak) (dBm) | Spec (dBm) |
|--------------------|----------------------------|--|----------------------|---------------|
| 5260.0 | 4.2 | 12 | 16.2 | 30 |
| 5300.0 | 4.2 | 12 | 16.2 | 30 |
| 5320.0 | 2.8 | 12 | 14.8 | 30 |

Tx Data Rate: 24 Mbit

| Frequency (MHz) | Peak Output Power (dBm) | Maximum Antenna Gain with Minimum Cable Loss (dBi) | EIRP (Peak) (dBm) | Spec (dBm) |
|--------------------|----------------------------|--|----------------------|---------------|
| 5260.0 | 11.2 | 12 | 23.2 | 30 |
| 5300.0 | 10.4 | 12 | 22.4 | 30 |
| 5320.0 | 9.5 | 12 | 21.5 | 30 |

Tx Data Rate: 6 Mbit

| Frequency (MHz) | Peak Output Power (dBm) | Maximum Antenna Gain with Minimum Cable Loss (dBi) | EIRP (Peak) (dBm) | Spec (dBm) |
|--------------------|----------------------------|--|----------------------|---------------|
| 5260.0 | 11.7 | 12 | 23.7 | 30 |
| 5300.0 | 10.6 | 12 | 22.6 | 30 |
| 5320.0 | 9.8 | 12 | 21.8 | 30 |